



## Full wwPDB EM Validation Report ⓘ

Jun 12, 2023 – 06:23 PM EDT

PDB ID : 8G2Z  
EMDB ID : EMD-29685  
Title : 48-nm doublet microtubule from Tetrahymena thermophila strain CU428  
Authors : Black, C.S.; Kubo, S.; Yang, S.K.; Bui, K.H.  
Deposited on : 2023-02-06  
Resolution : 4.10 Å (reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev50  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.33

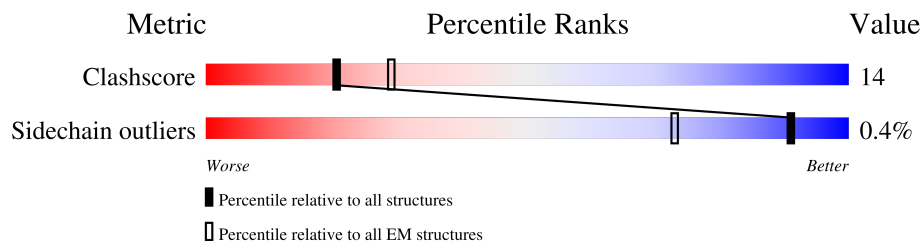
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 4.10 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	0A	236	13% (red), 53% (green), 11% (yellow), 36% (grey)
1	1A	236	13% (red), 58% (green), 6% (yellow), 36% (grey)
1	2A	236	9% (red), 56% (green), 8% (yellow), 36% (grey)
1	3A	236	11% (red), 56% (green), 8% (yellow), 36% (grey)
2	0B	329	5% (red), 89% (green), 8% (yellow), 0% (grey)
3	0C	156	8% (red), 54% (green), 7% (yellow), 39% (grey)
3	1C	156	8% (red), 53% (green), 8% (yellow), 39% (grey)
4	0D	225	33% (red), 76% (green), 13% (yellow), 10% (grey)
4	1D	225	23% (red), 79% (green), 11% (yellow), 10% (grey)

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Mol	Chain	Length	Quality of chain
4	2D	225	23% 79% 11% 10%
5	0E	191	42% 96% ..
5	1E	191	38% 96% ..
5	2E	191	28% 95% ..
5	3E	191	64% 96% ..
6	0F	219	7% 84% 9% 6%
7	0G	183	23% 78% 14% 8%
7	1G	183	17% 64% 9% . 26%
8	0H	447	16% 26% . 73%
8	1H	447	47% 89% 6% 5%
9	0N	492	8% 55% . 43%
9	1N	492	5% 91% . 6%
9	2N	492	11% 55% . 43%
10	0Q	195	8% 93% . 5%
10	1Q	195	6% 89% 7% 5%
10	2Q	195	6% 93% .. 5%
10	3Q	195	5% 92% . 5%
10	4Q	195	7% 93% . 5%
10	5Q	195	7% 57% 38% . 5%
10	6Q	195	13% 57% 38% . 5%
11	0S	319	49% 86% . 10%
11	1S	319	6% 85% 5% 10%
11	2S	319	7% 87% . 10%
11	3S	319	. 86% 5% 10%
12	0T	298	45% 86% . 12%

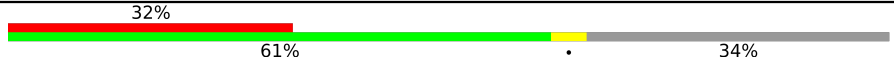

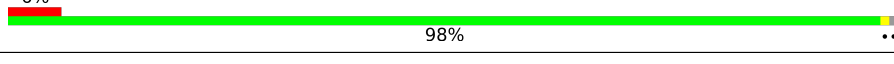
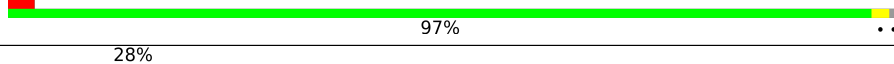
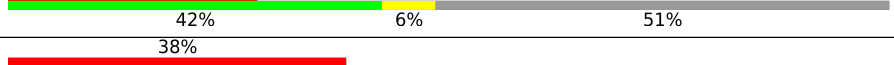
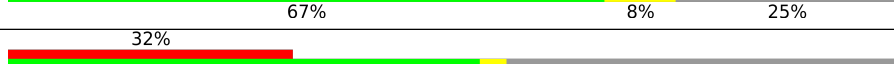
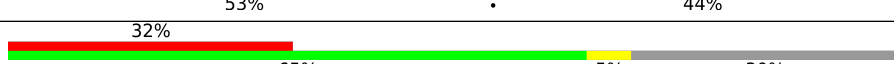
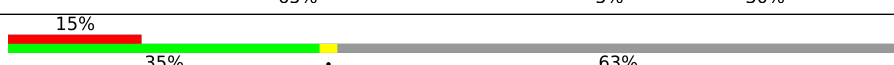
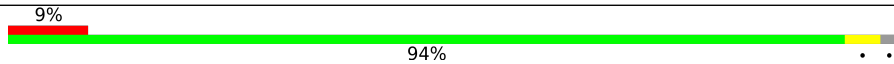
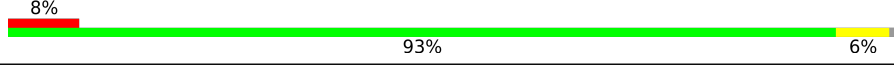
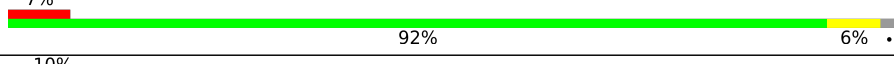
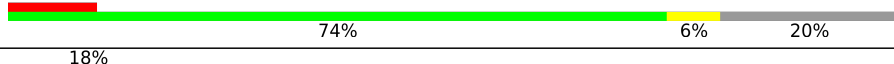

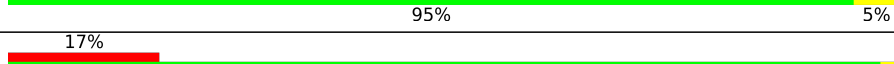
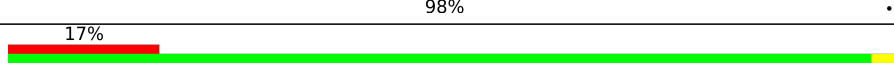
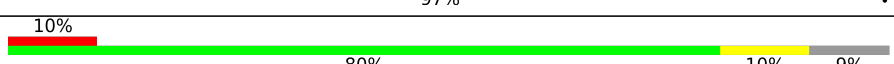
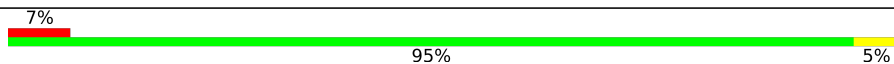





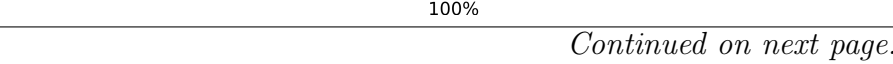


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Mol	Chain	Length	Quality of chain
12	1T	298	6% 92%
12	2T	298	5% 91%
12	3T	298	7% 93%
13	0U	656	14% 91% 7%
13	1U	656	6% 91% 7%
13	2U	656	5% 91% 7%
13	3U	656	14% 91% 7%
14	0V	269	45% 74% 21%
14	1V	269	24% 88% 10%
14	2V	269	24% 88% 9%
14	3V	269	29% 92% 6%
15	0X	142	11% 71% 6% 23%
15	1X	142	92% 7%
15	2X	142	90% 8%
15	3X	142	13% 94%
15	4X	142	10% 54% 46%
16	1B	498	12% 99%
16	2B	498	9% 58% 41%
16	3B	498	12% 58% 41%
17	1F	173	12% 66% 12% 21%
18	1I	263	6% 63% 9% 29%
19	1J	422	16% 76% 12% 12%
20	1K	489	18% 53% 43%
20	2K	489	22% 54% 41%
21	1L	940	20% 82% 5% 13%

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Mol	Chain	Length	Quality of chain
21	2L	940	
21	3L	940	
22	1M	372	
22	2M	372	
23	1O	494	
23	2O	494	
23	3O	494	
24	1P	507	
24	2P	507	
25	1R	516	
25	2R	516	
25	3R	516	
26	1W	280	
26	2W	280	
27	2C	300	
27	3C	300	
27	4C	300	
28	2F	96	
29	2G	99	
30	2H	229	
30	3H	229	
30	4H	229	
31	2I	293	
31	3I	293	
32	3D	237	

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Mol	Chain	Length	Quality of chain
33	4F	276	13% 66% 7% 28%
34	4R	613	9% 80% 19%
34	5R	613	7% 68% 31%
34	6R	613	30% 71% 28%
34	7R	613	30% 70% 29%
35	4S	249	8% 40% 35% 24%
35	5S	249	8% 45% 30% 24%
36	5A	175	30% 60% 29% 10%
36	5B	175	12% 58% 31% 10%
36	5C	175	12% 58% 32% 10%
36	5D	175	25% 46% 18% 35%
37	5E	247	45% 45% 30% 24%
37	5F	247	36% 50% 35% 15%
37	5G	247	32% 53% 31% 15%
37	5H	247	28% 33% 26% 41%
38	5I	168	45% 61% 39%
38	5J	168	42% 64% 35%
38	5K	168	40% 48% 52%
39	6F	145	6% 57% 34% 9%
40	6G	364	16% 31% 28% 41%
41	6H	518	7% 20% 11% 68%
42	8L	507	20% 75% 24%
42	8N	507	23% 71% 29%
43	8P	529	17% 68% 31%
44	8R	361	26% 94% 6%

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Mol	Chain	Length	Quality of chain
45	AA	449	6% 68% 29%
45	AC	449	6% 61% 36%
45	AE	449	6% 67% 31%
45	AG	449	6% 69% 29%
45	AI	449	6% 73% 24%
45	AK	449	6% 69% 29%
45	AM	449	6% 67% 30%
45	BA	449	24% 64% 32%
45	BC	449	6% 69% 27%
45	BE	449	6% 67% 29%
45	BG	449	6% 68% 28%
45	BI	449	6% 68% 28%
45	BK	449	6% 64% 32%
45	BM	449	8% 63% 33%
45	CA	449	6% 67% 31%
45	CC	449	8% 63% 35%
45	CE	449	6% 68% 29%
45	CG	449	6% 63% 34%
45	CI	449	6% 69% 29%
45	CK	449	6% 66% 31%
45	CM	449	21% 69% 28%
45	DA	449	94% 74% 22%
45	DC	449	7% 59% 38%
45	DE	449	6% 65% 31%
45	DG	449	5% 65% 32%

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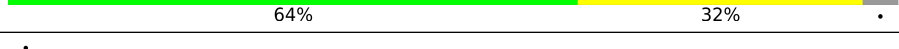
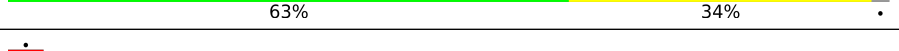
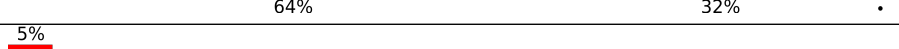
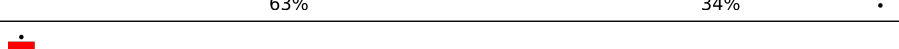
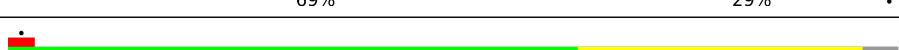

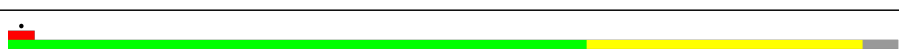

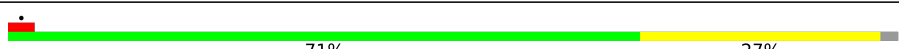





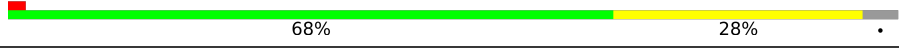
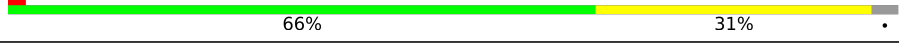



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Mol	Chain	Length	Quality of chain
45	DI	449	65% 31%
45	DK	449	65% 32%
45	DM	449	22% 62% 34%
45	EA	449	98% 79% 19%
45	EC	449	17% 59% 38%
45	EE	449	5% 64% 34%
45	EG	449	5% 65% 32%
45	EI	449	6% 67% 30%
45	EK	449	5% 69% 29%
45	EM	449	26% 61% 36%
45	FA	449	18% 65% 30%
45	FC	449	68% 28%
45	FE	449	70% 26%
45	FG	449	6% 72% 26%
45	FI	449	68% 28%
45	FK	449	12% 63% 33%
45	FM	449	96% 75% 21%
45	GA	449	21% 61% 34%
45	GC	449	70% 26%
45	GE	449	64% 32%
45	GG	449	6% 68% 28%
45	GI	449	69% 27%
45	GK	449	65% 33%
45	GM	449	96% 75% 20%
45	HA	449	19% 67% 28%

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Mol	Chain	Length	Quality of chain
45	HC	449	 67% 29%
45	HE	449	 66% 29%
45	HG	449	 71% 25%
45	HI	449	 67% 29%
45	HK	449	 64% 31%
45	HM	449	 89% 72% 24%
45	IA	449	 10% 64% 32%
45	IC	449	 63% 34%
45	IE	449	 64% 32%
45	IG	449	 5% 63% 34%
45	II	449	 69% 29%
45	IK	449	 64% 32%
45	IM	449	 31% 60% 36%
45	JA	449	 65% 31%
45	JC	449	 67% 30%
45	JE	449	 71% 27%
45	JG	449	 65% 33%
45	JI	449	 67% 31%
45	JK	449	 64% 34%
45	JM	449	 69% 65% 31%
45	KA	449	 64% 32%
45	KC	449	 68% 28%
45	KE	449	 66% 31%
45	KG	449	 67% 31%
45	KI	449	 70% 27%

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Mol	Chain	Length	Quality of chain
45	KK	449	65% 32%
45	KM	449	64% 32% 17%
45	LA	449	70% 28%
45	LC	449	73% 24%
45	LE	449	72% 25%
45	LG	449	71% 27%
45	LI	449	66% 31%
45	LK	449	68% 30%
45	LM	449	67% 30%
45	MA	449	66% 31% 6%
45	MC	449	64% 32%
45	ME	449	68% 28%
45	MG	449	67% 30% 5%
45	MI	449	71% 27% 6%
45	MK	449	68% 29% 5%
45	MM	449	69% 28% 7%
45	NA	449	57% 40% 12%
45	NC	449	64% 32% 6%
45	NE	449	68% 30% 6%
45	NG	449	62% 34% 5%
45	NI	449	64% 33% 7%
45	NK	449	61% 35% 5%
45	NM	449	63% 35% 44%
45	OA	449	54% 42% 16%
45	OC	449	61% 35%

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Mol	Chain	Length	Quality of chain
45	OE	449	5% 62% 34%
45	OG	449	6% 64% 33%
45	OI	449	6% 65% 31%
45	OK	449	6% 62% 34%
45	OM	449	47% 68% 29%
45	PA	449	40% 56% 39%
45	PC	449	7% 62% 34%
45	PE	449	5% 60% 35%
45	PG	449	5% 59% 37%
45	PI	449	6% 65% 31%
45	PK	449	6% 64% 31%
45	PM	449	59% 67% 28%
45	QA	449	72% 66% 29%
45	QC	449	10% 60% 36%
45	QE	449	6% 61% 34%
45	QG	449	7% 55% 41%
45	QI	449	7% 61% 35%
45	QK	449	6% 61% 35%
45	QM	449	73% 66% 29%
45	RA	449	88% 72% 24%
45	RC	449	12% 60% 35%
45	RE	449	9% 61% 35%
45	RG	449	9% 62% 34%
45	RI	449	7% 66% 30%
45	RK	449	8% 63% 32%

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Mol	Chain	Length	Quality of chain
45	RM	449	67% 66% 29%
45	SA	449	95% 77% 19%
45	SC	449	11% 59% 37%
45	SE	449	7% 60% 35%
45	SG	449	6% 60% 36%
45	SI	449	8% 63% 32%
45	SK	449	6% 58% 38%
45	SM	449	50% 65% 30%
45	TA	449	96% 73% 22%
45	TC	449	17% 56% 39%
45	TE	449	9% 61% 35%
45	TG	449	10% 63% 33%
45	TI	449	10% 67% 29%
45	TK	449	9% 64% 32%
45	TM	449	36% 59% 37%
45	UA	449	94% 76% 19%
45	UC	449	16% 58% 38%
45	UE	449	8% 62% 34%
45	UG	449	10% 67% 29%
45	UI	449	12% 71% 25%
45	UK	449	10% 64% 32%
45	UM	449	20% 58% 37%
45	VA	449	7% 56% 40%
45	VC	449	7% 67% 31%
45	VE	449	61% 36%

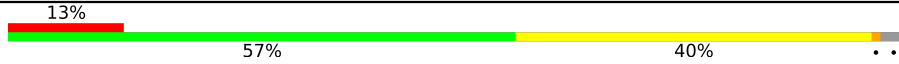
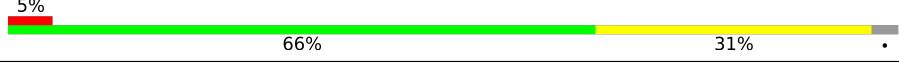
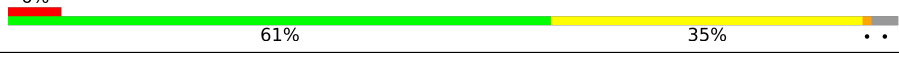


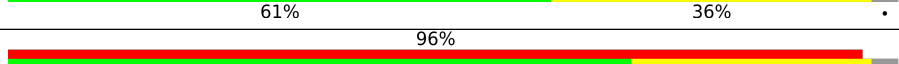
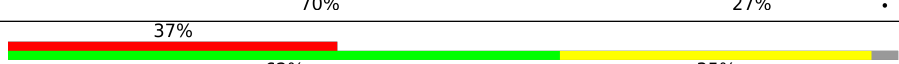
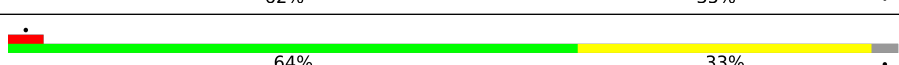
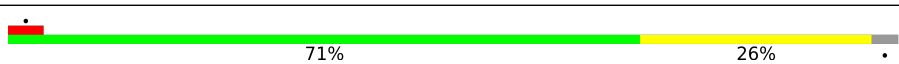


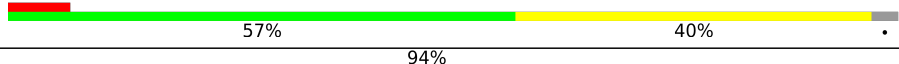


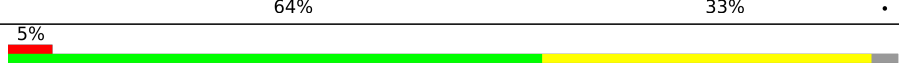



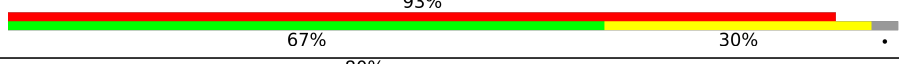
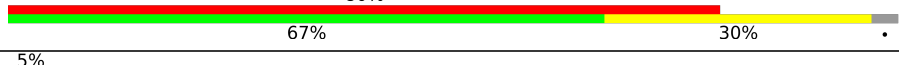





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Mol	Chain	Length	Quality of chain
45	VG	449	6% 59% 38%
45	VI	449	5% 63% 33%
45	VK	449	7% 59% 38%
45	VM	449	96% 76% 20%
45	WA	449	5% 61% 35%
45	WC	449	5% 61% 36%
45	WE	449	63% 33%
45	WG	449	5% 63% 34%
45	WI	449	66% 30%
45	WK	449	6% 61% 37%
45	WM	449	70% 71% 25%
46	AB	443	32% 64% 33%
46	AD	443	64% 33%
46	AF	443	64% 33%
46	AH	443	65% 32%
46	AJ	443	71% 26%
46	AL	443	65% 33%
46	AN	443	63% 34%
46	BB	443	89% 72% 25%
46	BD	443	7% 62% 35%
46	BF	443	5% 65% 32%
46	BH	443	6% 62% 35%
46	BJ	443	69% 28%
46	BL	443	5% 62% 35%
46	BN	443	6% 60% 37%

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Mol	Chain	Length	Quality of chain
46	CB	443	
46	CD	443	
46	CF	443	
46	CH	443	
46	CJ	443	
46	CL	443	
46	CN	443	
46	DB	443	
46	DD	443	
46	DF	443	
46	DH	443	
46	DJ	443	
46	DL	443	
46	DN	443	
46	EB	443	
46	ED	443	
46	EF	443	
46	EH	443	
46	EJ	443	
46	EL	443	
46	EN	443	
46	FB	443	
46	FD	443	
46	FF	443	
46	FH	443	







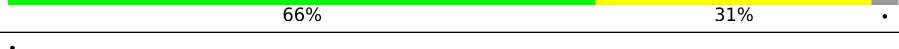
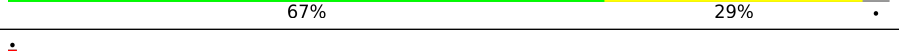
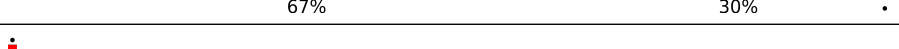
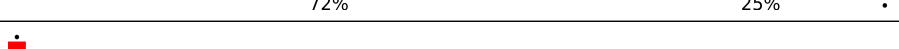
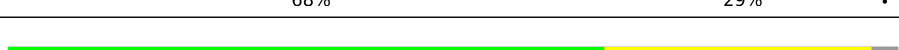

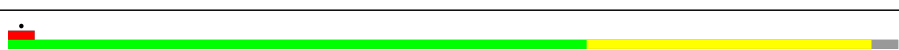

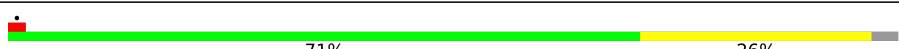





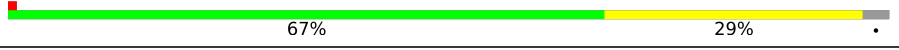
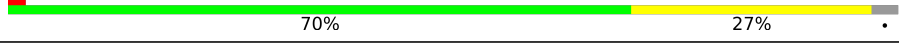



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Mol	Chain	Length	Quality of chain
46	FJ	443	67% 30%
46	FL	443	64% 33%
46	FN	443	66% 31%
46	GB	443	71% 26%
46	GD	443	62% 35%
46	GF	443	66% 31%
46	GH	443	68% 29%
46	GJ	443	69% 28%
46	GL	443	68% 29%
46	GN	443	63% 34%
46	HB	443	68% 29%
46	HD	443	63% 34%
46	HF	443	66% 30%
46	HH	443	65% 32%
46	HJ	443	67% 30%
46	HL	443	69% 28%
46	HN	443	59% 38%
46	IB	443	66% 31%
46	ID	443	65% 32%
46	IF	443	73% 24%
46	IH	443	63% 34%
46	IJ	443	66% 31%
46	IL	443	63% 34%
46	IN	443	59% 38%
46	JB	443	64% 33%

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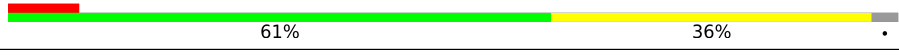
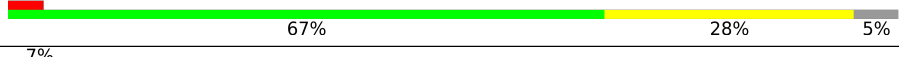




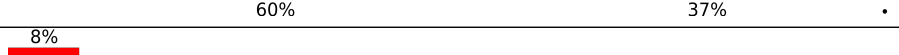
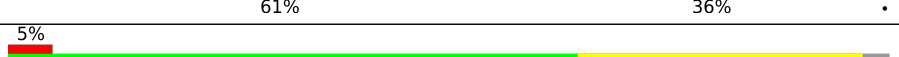
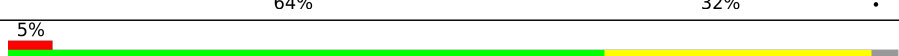

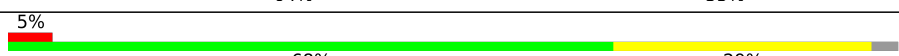
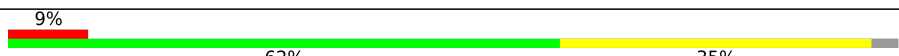






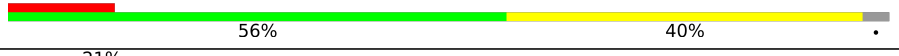



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Mol	Chain	Length	Quality of chain
46	JD	443	 73% 24%
46	JF	443	 69% 28%
46	JH	443	 68% 29%
46	JJ	443	 67% 30%
46	JL	443	 66% 31%
46	JN	443	 61% 36% 6%
46	KB	443	 66% 31% 5%
46	KD	443	 67% 29%
46	KF	443	 67% 30%
46	KH	443	 72% 25%
46	KJ	443	 68% 29%
46	KL	443	 67% 30%
46	KN	443	 65% 32%
46	LB	443	 65% 32%
46	LD	443	 70% 27%
46	LF	443	 71% 26%
46	LH	443	 68% 29%
46	LJ	443	 69% 28%
46	LL	443	 66% 31%
46	LN	443	 70% 27%
46	MB	443	 65% 32% 5%
46	MD	443	 67% 29%
46	MF	443	 70% 27%
46	MH	443	 70% 27%
46	MJ	443	 63% 35%

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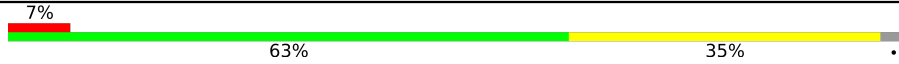
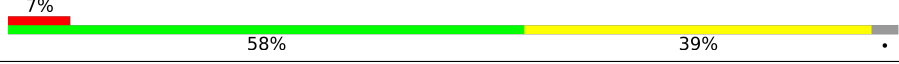
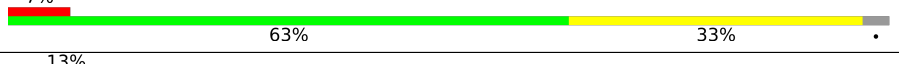
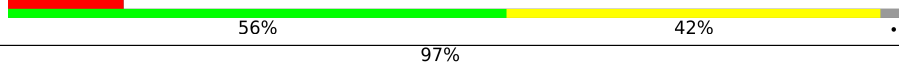
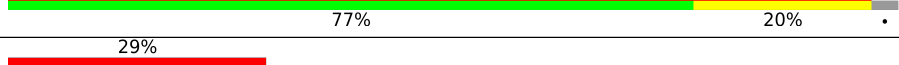
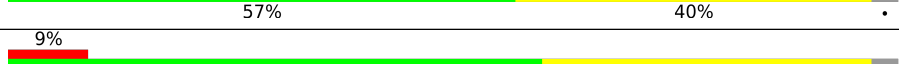
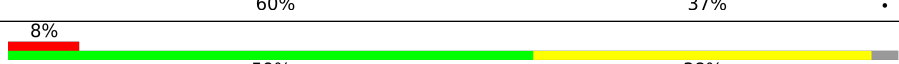
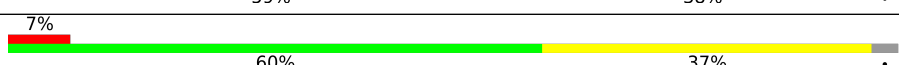
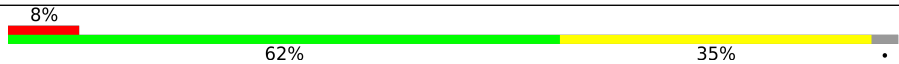

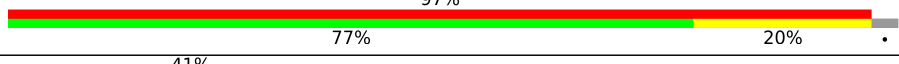
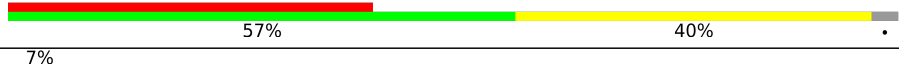
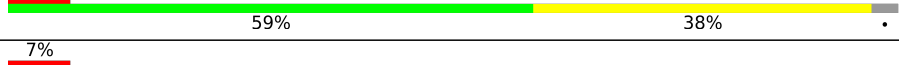

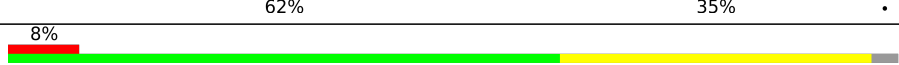

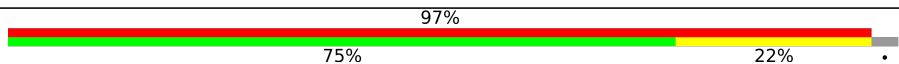










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Mol	Chain	Length	Quality of chain
46	ML	443	
46	MN	443	
46	NB	443	
46	ND	443	
46	NF	443	
46	NH	443	
46	NJ	443	
46	NL	443	
46	NN	443	
46	OB	443	
46	OD	443	
46	OF	443	
46	OH	443	
46	OJ	443	
46	OL	443	
46	ON	443	
46	PB	443	
46	PD	443	
46	PF	443	
46	PH	443	
46	PJ	443	
46	PL	443	
46	PN	443	
46	QB	443	
46	QD	443	

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Mol	Chain	Length	Quality of chain
46	QF	443	
46	QH	443	
46	QJ	443	
46	QL	443	
46	QN	443	
46	RB	443	
46	RD	443	
46	RF	443	
46	RH	443	
46	RJ	443	
46	RL	443	
46	RN	443	
46	SB	443	
46	SD	443	
46	SF	443	
46	SH	443	
46	SJ	443	
46	SL	443	
46	SN	443	
46	TB	443	
46	TD	443	
46	TF	443	
46	TH	443	
46	TJ	443	
46	TL	443	

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Mol	Chain	Length	Quality of chain
46	TN	443	94% 73% 24%
46	UB	443	54% 57% 40%
46	UD	443	11% 63% 34%
46	UF	443	9% 60% 37%
46	UH	443	12% 60% 37%
46	UJ	443	10% 58% 39%
46	UL	443	12% 52% 45%
46	UN	443	76% 60% 37%
46	VB	443	37% 56% 41%
46	VD	443	5% 61% 36%
46	VF	443	• 62% 35%
46	VH	443	5% 56% 41%
46	VJ	443	5% 60% 37%
46	VL	443	5% 58% 39%
46	VN	443	40% 56% 41%
46	WB	443	31% 61% 36%
46	WD	443	5% 59% 38%
46	WF	443	5% 60% 37%
46	WH	443	6% 63% 34%
46	WJ	443	5% 61% 36%
46	WL	443	7% 62% 35%
46	WN	443	14% 58% 39%

## 2 Entry composition

There are 49 unique types of molecules in this entry. The entry contains 1325153 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called RIB27A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	0A	152	1229	776	224	228	1	0	0
1	1A	152	1229	776	224	228	1	0	0
1	2A	152	1229	776	224	228	1	0	0
1	3A	152	1229	776	224	228	1	0	0

- Molecule 2 is a protein called RIB38.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	0B	321	2615	1634	472	502	7	0	0

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0B	10	THR	SER	conflict	UNP Q23JL9
0B	11	ALA	THR	conflict	UNP Q23JL9
0B	12	LEU	ALA	conflict	UNP Q23JL9
0B	13	MET	LEU	conflict	UNP Q23JL9
0B	36	SER	THR	conflict	UNP Q23JL9

- Molecule 3 is a protein called CFAM166B.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	0C	95	747	471	131	143	2	0	0
3	1C	95	747	471	131	143	2	0	0

- Molecule 4 is a protein called CFAM166A.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	0D	202	Total	C	N	O	S	1	0
			1619	1018	292	307	2		
4	1D	202	Total	C	N	O	S	1	0
			1619	1018	292	307	2		
4	2D	202	Total	C	N	O	S	1	0
			1619	1018	292	307	2		

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0D	86	ALA	THR	conflict	UNP Q238X3
0D	87	GLU	GLN	conflict	UNP Q238X3
1D	86	ALA	THR	conflict	UNP Q238X3
1D	87	GLU	GLN	conflict	UNP Q238X3
2D	86	ALA	THR	conflict	UNP Q238X3
2D	87	GLU	GLN	conflict	UNP Q238X3

- Molecule 5 is a protein called RIB22.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	0E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		
5	1E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		
5	2E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		
5	3E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		

- Molecule 6 is a protein called CFAM166C.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	0F	206	Total	C	N	O	S	0	0
			1665	1048	300	314	3		

- Molecule 7 is a protein called CFAP107.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	0G	168	Total	C	N	O	S	0	0
			1378	871	237	265	5		
7	1G	135	Total	C	N	O	S	0	0
			1109	702	190	214	3		

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0G	127	ALA	LEU	conflict	UNP Q237T1
0G	128	LEU	SER	conflict	UNP Q237T1
0G	129	SER	ALA	conflict	UNP Q237T1
0G	130	ALA	SER	conflict	UNP Q237T1
0G	131	SER	ALA	conflict	UNP Q237T1
0G	140	PHE	TYR	conflict	UNP Q237T1
1G	127	ALA	LEU	conflict	UNP Q237T1
1G	128	LEU	SER	conflict	UNP Q237T1
1G	129	SER	ALA	conflict	UNP Q237T1
1G	130	ALA	SER	conflict	UNP Q237T1
1G	131	SER	ALA	conflict	UNP Q237T1
1G	140	PHE	TYR	conflict	UNP Q237T1

- Molecule 8 is a protein called CFAP127.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
8	0H	120	Total	C	N	O	S	0	0
			1046	654	189	198	5		
8	1H	425	Total	C	N	O	S	0	0
			3706	2281	691	720	14		

- Molecule 9 is a protein called CFAP161A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
9	0N	280	Total	C	N	O	S	0	0
			2305	1455	396	441	13		
9	1N	463	Total	C	N	O	S	0	0
			3805	2414	653	723	15		
9	2N	280	Total	C	N	O	S	0	0
			2305	1455	396	441	13		

- Molecule 10 is a protein called CFAP20.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
10	0Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
10	1Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
10	2Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
10	3Q	186	Total 1548	C 997	N 268	O 276	S 7	0	0
10	4Q	186	Total 1548	C 997	N 268	O 276	S 7	0	0
10	5Q	186	Total 1548	C 997	N 268	O 276	S 7	0	0
10	6Q	186	Total 1548	C 997	N 268	O 276	S 7	0	0

- Molecule 11 is a protein called Parkin co-regulated protein PACRGA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
11	0S	288	Total 2310	C 1485	N 397	O 422	S 6	0	0
11	1S	288	Total 2310	C 1485	N 397	O 422	S 6	0	0
11	2S	288	Total 2310	C 1485	N 397	O 422	S 6	0	0
11	3S	288	Total 2310	C 1485	N 397	O 422	S 6	0	0

- Molecule 12 is a protein called IJ34.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
12	0T	261	Total 2124	C 1351	N 373	O 391	S 9	0	0
12	1T	285	Total 2321	C 1471	N 411	O 430	S 9	0	0
12	2T	285	Total 2321	C 1471	N 411	O 430	S 9	0	0
12	3T	285	Total 2321	C 1471	N 411	O 430	S 9	0	0

- Molecule 13 is a protein called CFAP52A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
13	0U	607	Total 4774	C 3025	N 819	O 906	S 24	0	0
13	1U	607	Total 4774	C 3025	N 819	O 906	S 24	0	0
13	2U	607	Total 4774	C 3025	N 819	O 906	S 24	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
13	3U	607	4774	3025	819	906	24	0	0

- Molecule 14 is a protein called DNA polymerase delta C4-type zinc-finger protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
14	0V	212	1750	1095	317	332	6	0	0
14	1V	263	2168	1359	388	412	9	0	0
14	2V	263	2168	1359	388	412	9	0	0
14	3V	263	2168	1359	388	412	9	0	0

- Molecule 15 is a protein called RIB43A protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
15	0X	110	935	570	175	185	5	0	0
15	1X	141	1202	732	227	237	6	0	0
15	2X	141	1202	732	227	237	6	0	0
15	3X	141	1202	732	227	237	6	0	0
15	4X	141	1202	732	227	237	6	0	0

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0X	13	SER	PRO	conflict	UNP A4VDZ5
0X	14	ASP	HIS	conflict	UNP A4VDZ5
1X	13	SER	PRO	conflict	UNP A4VDZ5
1X	14	ASP	HIS	conflict	UNP A4VDZ5
2X	13	SER	PRO	conflict	UNP A4VDZ5
2X	14	ASP	HIS	conflict	UNP A4VDZ5
3X	13	SER	PRO	conflict	UNP A4VDZ5
3X	14	ASP	HIS	conflict	UNP A4VDZ5
4X	13	SER	PRO	conflict	UNP A4VDZ5
4X	14	ASP	HIS	conflict	UNP A4VDZ5



- Molecule 16 is a protein called RIB57.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
16	1B	498	Total	C	N	O	S	0	0
			4066	2598	692	768	8		
16	2B	295	Total	C	N	O	S	0	0
			2439	1553	416	464	6		
16	3B	295	Total	C	N	O	S	0	0
			2437	1552	416	463	6		

- Molecule 17 is a protein called CFAP182A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
17	1F	136	Total	C	N	O	S	0	0
			1093	696	184	208	5		

- Molecule 18 is a protein called CFAP143.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
18	1I	188	Total	C	N	O	S	0	0
			1546	951	285	306	4		

- Molecule 19 is a protein called CFAP21A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
19	1J	370	Total	C	N	O	S	0	0
			3025	1901	533	580	11		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1J	322	ASP	ASN	conflict	UNP I7MLS4

- Molecule 20 is a protein called CFAP53.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
20	1K	277	Total	C	N	O	S	0	0
			2425	1500	452	466	7		
20	2K	288	Total	C	N	O	S	0	0
			2506	1547	460	492	7		

- Molecule 21 is a protein called CFAP115.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
21	1L	820	6842	4358	1186	1280	18	0	0
21	2L	616	5151	3286	896	957	12	0	0
21	3L	200	1660	1053	284	317	6	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1L	863	GLU	GLY	conflict	UNP Q23KF9
1L	864	ALA	GLU	conflict	UNP Q23KF9
2L	863	GLU	GLY	conflict	UNP Q23KF9
2L	864	ALA	GLU	conflict	UNP Q23KF9
3L	863	GLU	GLY	conflict	UNP Q23KF9
3L	864	ALA	GLU	conflict	UNP Q23KF9

- Molecule 22 is a protein called Nucleoside diphosphate kinase.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
22	1M	369	2978	1910	501	552	15	0	0
22	2M	369	2978	1910	501	552	15	0	0

- Molecule 23 is a protein called Cilia- and flagella-associated protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
23	1O	241	2032	1266	359	395	12	0	0
23	2O	370	3173	1948	595	617	13	0	0
23	3O	279	2397	1471	456	466	4	0	0

- Molecule 24 is a protein called CFAP210.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
24	1P	355	3060	1889	575	588	8	0	0
24	2P	190	1633	1005	309	313	6	0	0

- Molecule 25 is a protein called RIB72B.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	1R	508	Total	C	N	O	S	0	0
			4244	2744	711	777	12		
25	2R	508	Total	C	N	O	S	0	0
			4244	2744	711	777	12		
25	3R	508	Total	C	N	O	S	0	0
			4244	2744	711	777	12		

- Molecule 26 is a protein called Protofilament ribbon protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	1W	224	Total	C	N	O	S	0	0
			1924	1167	380	368	9		
26	2W	116	Total	C	N	O	S	0	0
			990	611	189	184	6		

- Molecule 27 is a protein called RIB35.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	2C	300	Total	C	N	O	S	0	0
			2467	1581	417	464	5		
27	3C	300	Total	C	N	O	S	0	0
			2467	1581	417	464	5		
27	4C	300	Total	C	N	O	S	0	0
			2467	1581	417	464	5		

- Molecule 28 is a protein called CFAP182B.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	2F	87	Total	C	N	O	S	0	0
			746	469	136	137	4		

- Molecule 29 is a protein called Flagellar FliJ protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	2G	99	Total	C	N	O	S	0	0
			848	536	153	155	4		

- Molecule 30 is a protein called RIB27B.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	2H	61	Total	C	N	O	S	0	0
			501	313	92	94	2		
30	3H	61	Total	C	N	O	S	0	0
			501	313	92	94	2		
30	4H	61	Total	C	N	O	S	0	0
			501	313	92	94	2		

- Molecule 31 is a protein called STPG2.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	2I	142	Total	C	N	O	S	0	0
			1150	736	204	209	1		
31	3I	87	Total	C	N	O	S	0	0
			712	451	130	127	4		

- Molecule 32 is a protein called RIB26.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	3D	237	Total	C	N	O	S	0	0
			1835	1174	310	340	11		

- Molecule 33 is a protein called CFAP129.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	4F	200	Total	C	N	O	S	0	0
			1618	1022	286	308	2		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
4F	70	VAL	ASP	conflict	UNP I7M9I4

- Molecule 34 is a protein called Flagellar microtubule protofilament ribbon protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	4R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		
34	5R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		
34	6R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		
34	7R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		

- Molecule 35 is a protein called Parkin co-regulated protein PACRGB.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
35	4S	188	Total	C	N	O	S	0	0
			1537	999	251	279	8		
35	5S	188	Total	C	N	O	S	0	0
			1537	999	251	279	8		

- Molecule 36 is a protein called OJ2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
36	5A	157	Total	C	N	O	S	0	0
			1261	795	234	229	3		
36	5B	157	Total	C	N	O	S	0	0
			1261	795	234	229	3		
36	5C	157	Total	C	N	O	S	0	0
			1261	795	234	229	3		
36	5D	114	Total	C	N	O	S	0	0
			908	571	165	169	3		

- Molecule 37 is a protein called CFAP77A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
37	5E	188	Total	C	N	O	S	0	0
			1566	992	281	288	5		
37	5F	210	Total	C	N	O	S	0	0
			1750	1107	316	322	5		
37	5G	210	Total	C	N	O	S	0	0
			1750	1107	316	322	5		
37	5H	146	Total	C	N	O	S	0	0
			1210	764	217	225	4		

- Molecule 38 is a protein called OJ3.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
38	5I	103	Total	C	N	O	0	0
			515	309	103	103		
38	5J	109	Total	C	N	O	0	0
			545	327	109	109		
38	5K	80	Total	C	N	O	0	0
			400	240	80	80		

- Molecule 39 is a protein called SB1.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	6F	132	Total	C	N	O	S	0	0
			1140	718	197	221	4		

- Molecule 40 is a protein called STPG1A.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	6G	216	Total	C	N	O	S	0	0
			1769	1128	303	333	5		

- Molecule 41 is a protein called Nebulin.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	6H	165	Total	C	N	O	S	0	0
			1362	857	234	266	5		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
6H	186	HIS	GLN	conflict	UNP Q231B6
6H	198	HIS	MET	conflict	UNP Q231B6

- Molecule 42 is a protein called B5B6\_fMIP.

Mol	Chain	Residues	Atoms				AltConf	Trace
42	8L	385	Total	C	N	O	0	0
			1925	1155	385	385		
42	8N	358	Total	C	N	O	0	0
			1790	1074	358	358		

- Molecule 43 is a protein called CFAP112A.

Mol	Chain	Residues	Atoms				AltConf	Trace
43	8P	363	Total	C	N	O	0	0
			1815	1089	363	363		

- Molecule 44 is a protein called B2B3\_fMIP.

Mol	Chain	Residues	Atoms				AltConf	Trace
44	8R	361	Total	C	N	O	0	0
			2020	1269	361	390		

- Molecule 45 is a protein called Tubulin alpha chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	AA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	BA	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BC	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BE	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BG	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BI	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BK	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BM	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	CA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	DA	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	DE	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	DG	436	Total 3389	C 2143	N 576	O 648	S 22	0	0
45	DI	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
45	DK	436	Total 3389	C 2143	N 576	O 648	S 22	0	0
45	DM	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
45	EA	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	EC	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	EE	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	EG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	EI	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	EK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	EM	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	FA	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
45	FC	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
45	FE	434	Total 3376	C 2135	N 573	O 646	S 22	0	0
45	FG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	FI	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
45	FK	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
45	FM	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
45	GA	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
45	GC	431	Total 3358	C 2126	N 570	O 640	S 22	0	0
45	GE	431	Total 3358	C 2126	N 570	O 640	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	GG	431	Total 3358	C 2126	N 570	O 640	S 22	0	0
45	GI	431	Total 3358	C 2126	N 570	O 640	S 22	0	0
45	GK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	GM	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
45	HA	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	HC	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	HE	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	HG	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	HI	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	HK	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	HM	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	IA	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
45	IC	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	IE	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
45	IG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	II	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	IK	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
45	IM	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
45	JA	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
45	JC	434	Total 3376	C 2135	N 573	O 646	S 22	0	0
45	JE	439	Total 3408	C 2155	N 579	O 652	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	JG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	JI	439	Total 3404	C 2151	N 579	O 652	S 22	0	0
45	JK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	JM	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
45	KA	434	Total 3376	C 2135	N 573	O 646	S 22	0	0
45	KC	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
45	KE	435	Total 3385	C 2141	N 575	O 647	S 22	0	0
45	KG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	KI	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	KK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	KM	434	Total 3376	C 2135	N 573	O 646	S 22	0	0
45	LA	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	LC	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	LE	438	Total 3400	C 2149	N 578	O 651	S 22	0	0
45	LG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	LI	434	Total 3381	C 2139	N 574	O 646	S 22	0	0
45	LK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	LM	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	MA	436	Total 3392	C 2145	N 576	O 649	S 22	0	0
45	MC	433	Total 3368	C 2131	N 572	O 643	S 22	0	0
45	ME	433	Total 3372	C 2133	N 572	O 645	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	MG	437	Total 3400	C 2151	N 577	O 650	S 22	0	0
45	MI	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	MK	436	Total 3384	C 2139	N 575	O 648	S 22	0	0
45	MM	436	Total 3392	C 2145	N 576	O 649	S 22	0	0
45	NA	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	NC	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
45	NE	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	NG	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
45	NI	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	NK	432	Total 3364	C 2129	N 571	O 642	S 22	0	0
45	NM	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	OA	433	Total 3368	C 2131	N 572	O 643	S 22	0	0
45	OC	433	Total 3368	C 2131	N 572	O 643	S 22	0	0
45	OE	433	Total 3368	C 2131	N 572	O 643	S 22	0	0
45	OG	433	Total 3368	C 2131	N 572	O 643	S 22	0	0
45	OI	433	Total 3368	C 2131	N 572	O 643	S 22	0	0
45	OK	433	Total 3368	C 2131	N 572	O 643	S 22	0	0
45	OM	433	Total 3368	C 2131	N 572	O 643	S 22	0	0
45	PA	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
45	PC	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
45	PE	429	Total 3342	C 2118	N 568	O 634	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	PG	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
45	PI	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
45	PK	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
45	PM	429	Total 3342	C 2118	N 568	O 634	S 22	0	0
45	QA	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	QC	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	QE	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	QG	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	QI	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	QK	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	QM	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	RA	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	RC	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	RE	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	RG	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	RI	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	RK	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	RM	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	SA	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	SC	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	SE	430	Total 3350	C 2122	N 569	O 637	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	SG	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	SI	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	SK	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	SM	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	TA	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	TC	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	TE	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	TG	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	TI	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	TK	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	TM	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
45	UA	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	UC	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	UE	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	UG	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	UI	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	UK	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	UM	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	VA	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
45	VC	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	VE	433	Total 3372	C 2133	N 572	O 645	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	VG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	VI	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
45	VK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	VM	433	Total 3372	C 2133	N 572	O 645	S 22	0	0
45	WA	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	WC	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	WE	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	WG	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	WI	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	WK	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	WM	431	Total 3356	C 2125	N 570	O 639	S 22	0	0
45	CE	439	Total 3408	C 2155	N 579	O 652	S 22	0	0
45	DC	436	Total 3389	C 2143	N 576	O 648	S 22	0	0

- Molecule 46 is a protein called Tubulin beta chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
46	AB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	AD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	AF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	AH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	AJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	AL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
46	AN	430	3366	2115	577	646	28	0	0
46	BB	430	3366	2115	577	646	28	0	0
46	BD	430	3366	2115	577	646	28	0	0
46	BF	430	3366	2115	577	646	28	0	0
46	BH	430	3366	2115	577	646	28	0	0
46	BJ	430	3366	2115	577	646	28	0	0
46	BL	430	3366	2115	577	646	28	0	0
46	BN	430	3366	2115	577	646	28	0	0
46	CB	430	3366	2115	577	646	28	0	0
46	CD	430	3366	2115	577	646	28	0	0
46	CF	430	3366	2115	577	646	28	0	0
46	CH	430	3366	2115	577	646	28	0	0
46	CJ	430	3366	2115	577	646	28	0	0
46	CL	430	3366	2115	577	646	28	0	0
46	CN	430	3366	2115	577	646	28	0	0
46	DB	430	3366	2115	577	646	28	0	0
46	DD	430	3366	2115	577	646	28	0	0
46	DF	430	3366	2115	577	646	28	0	0
46	DH	430	3366	2115	577	646	28	0	0
46	DJ	430	3366	2115	577	646	28	0	0
46	DL	430	3366	2115	577	646	28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
46	DN	430	3366	2115	577	646	28	0	0
46	EB	430	3366	2115	577	646	28	0	0
46	ED	430	3366	2115	577	646	28	0	0
46	EF	430	3366	2115	577	646	28	0	0
46	EH	430	3366	2115	577	646	28	0	0
46	EJ	430	3366	2115	577	646	28	0	0
46	EL	430	3366	2115	577	646	28	0	0
46	EN	430	3366	2115	577	646	28	0	0
46	FB	430	3366	2115	577	646	28	0	0
46	FD	430	3366	2115	577	646	28	0	0
46	FF	430	3366	2115	577	646	28	0	0
46	FH	430	3366	2115	577	646	28	0	0
46	FJ	430	3366	2115	577	646	28	0	0
46	FL	430	3366	2115	577	646	28	0	0
46	FN	430	3366	2115	577	646	28	0	0
46	GB	430	3366	2115	577	646	28	0	0
46	GD	430	3366	2115	577	646	28	0	0
46	GF	430	3366	2115	577	646	28	0	0
46	GH	430	3366	2115	577	646	28	0	0
46	GJ	430	3366	2115	577	646	28	0	0
46	GL	430	3366	2115	577	646	28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
46	GN	430	3366	2115	577	646	28	0	0
46	HB	430	3366	2115	577	646	28	0	0
46	HD	430	3366	2115	577	646	28	0	0
46	HF	430	3366	2115	577	646	28	0	0
46	HH	430	3366	2115	577	646	28	0	0
46	HJ	430	3366	2115	577	646	28	0	0
46	HL	430	3366	2115	577	646	28	0	0
46	HN	430	3366	2115	577	646	28	0	0
46	IB	430	3366	2115	577	646	28	0	0
46	ID	430	3366	2115	577	646	28	0	0
46	IF	430	3366	2115	577	646	28	0	0
46	IH	430	3366	2115	577	646	28	0	0
46	IJ	430	3366	2115	577	646	28	0	0
46	IL	430	3366	2115	577	646	28	0	0
46	IN	430	3366	2115	577	646	28	0	0
46	JB	430	3366	2115	577	646	28	0	0
46	JD	430	3366	2115	577	646	28	0	0
46	JF	430	3366	2115	577	646	28	0	0
46	JH	430	3366	2115	577	646	28	0	0
46	JJ	430	3366	2115	577	646	28	0	0
46	JL	430	3366	2115	577	646	28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
46	JN	430	3366	2115	577	646	28	0	0
46	KB	430	3366	2115	577	646	28	0	0
46	KD	430	3366	2115	577	646	28	0	0
46	KF	430	3366	2115	577	646	28	0	0
46	KH	430	3366	2115	577	646	28	0	0
46	KJ	430	3366	2115	577	646	28	0	0
46	KL	430	3366	2115	577	646	28	0	0
46	KN	430	3366	2115	577	646	28	0	0
46	LB	430	3366	2115	577	646	28	0	0
46	LD	430	3366	2115	577	646	28	0	0
46	LF	430	3366	2115	577	646	28	0	0
46	LH	430	3366	2115	577	646	28	0	0
46	LJ	430	3366	2115	577	646	28	0	0
46	LL	430	3366	2115	577	646	28	0	0
46	LN	430	3366	2115	577	646	28	0	0
46	MB	430	3366	2115	577	646	28	0	0
46	MD	430	3366	2115	577	646	28	0	0
46	MF	430	3366	2115	577	646	28	0	0
46	MH	430	3366	2115	577	646	28	0	0
46	MJ	430	3366	2115	577	646	28	0	0
46	ML	430	3366	2115	577	646	28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
46	MN	430	3366	2115	577	646	28	0	0
46	NB	423	3304	2079	562	635	28	0	0
46	ND	430	3366	2115	577	646	28	0	0
46	NF	423	3304	2079	562	635	28	0	0
46	NH	430	3366	2115	577	646	28	0	0
46	NJ	423	3304	2079	562	635	28	0	0
46	NL	430	3366	2115	577	646	28	0	0
46	NN	423	3304	2079	562	635	28	0	0
46	OB	430	3366	2115	577	646	28	0	0
46	OD	430	3366	2115	577	646	28	0	0
46	OF	430	3366	2115	577	646	28	0	0
46	OH	430	3366	2115	577	646	28	0	0
46	OJ	430	3366	2115	577	646	28	0	0
46	OL	430	3366	2115	577	646	28	0	0
46	ON	430	3366	2115	577	646	28	0	0
46	PB	430	3366	2115	577	646	28	0	0
46	PD	430	3366	2115	577	646	28	0	0
46	PF	430	3366	2115	577	646	28	0	0
46	PH	430	3366	2115	577	646	28	0	0
46	PJ	430	3366	2115	577	646	28	0	0
46	PL	430	3366	2115	577	646	28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
46	PN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	SB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	SD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	SF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	SH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	SJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	SL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0

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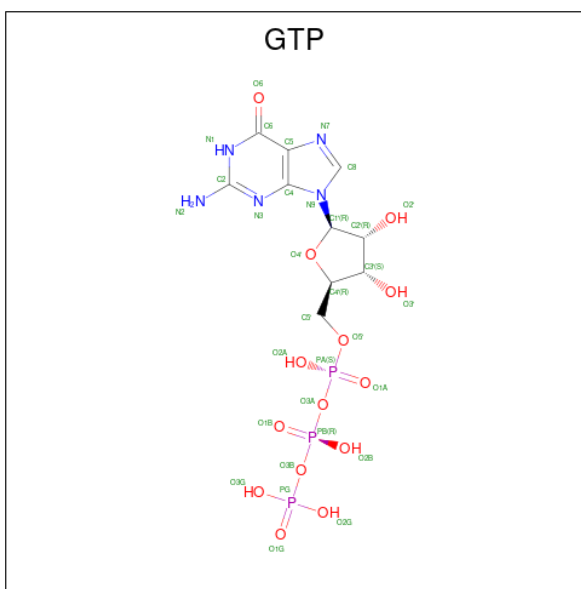
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
46	SN	430	3366	2115	577	646	28	0	0
46	TB	430	3366	2115	577	646	28	0	0
46	TD	430	3366	2115	577	646	28	0	0
46	TF	430	3366	2115	577	646	28	0	0
46	TH	430	3366	2115	577	646	28	0	0
46	TJ	430	3366	2115	577	646	28	0	0
46	TL	430	3366	2115	577	646	28	0	0
46	TN	430	3366	2115	577	646	28	0	0
46	UB	430	3366	2115	577	646	28	0	0
46	UD	430	3366	2115	577	646	28	0	0
46	UF	430	3366	2115	577	646	28	0	0
46	UH	430	3366	2115	577	646	28	0	0
46	UJ	430	3366	2115	577	646	28	0	0
46	UL	430	3366	2115	577	646	28	0	0
46	UN	430	3366	2115	577	646	28	0	0
46	VB	430	3366	2115	577	646	28	0	0
46	VD	430	3366	2115	577	646	28	0	0
46	VF	430	3366	2115	577	646	28	0	0
46	VH	430	3366	2115	577	646	28	0	0
46	VJ	430	3366	2115	577	646	28	0	0
46	VL	430	3366	2115	577	646	28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
46	VN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	WB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	WD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	WF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	WH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	WJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	WL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	WN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0

- Molecule 47 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula:  $C_{10}H_{16}N_5O_{14}P_3$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
47	AA	1	Total 32	C 10	N 5	O 14	P 3	0
47	AC	1	Total 32	C 10	N 5	O 14	P 3	0
47	AE	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms				AltConf	
			Total	C	N	O		P
47	AG	1	32	10	5	14	3	0
47	AI	1	32	10	5	14	3	0
47	AK	1	32	10	5	14	3	0
47	AM	1	32	10	5	14	3	0
47	BA	1	32	10	5	14	3	0
47	BC	1	32	10	5	14	3	0
47	BE	1	32	10	5	14	3	0
47	BG	1	32	10	5	14	3	0
47	BI	1	32	10	5	14	3	0
47	BK	1	32	10	5	14	3	0
47	BM	1	32	10	5	14	3	0
47	CA	1	32	10	5	14	3	0
47	CC	1	32	10	5	14	3	0
47	CG	1	32	10	5	14	3	0
47	CI	1	32	10	5	14	3	0
47	CK	1	32	10	5	14	3	0
47	CM	1	32	10	5	14	3	0
47	DA	1	32	10	5	14	3	0
47	DE	1	32	10	5	14	3	0
47	DG	1	32	10	5	14	3	0
47	DI	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
47	DK	1	Total 32	C 10	N 5	O 14	P 3	0
47	DM	1	Total 32	C 10	N 5	O 14	P 3	0
47	EA	1	Total 32	C 10	N 5	O 14	P 3	0
47	EC	1	Total 32	C 10	N 5	O 14	P 3	0
47	EE	1	Total 32	C 10	N 5	O 14	P 3	0
47	EG	1	Total 32	C 10	N 5	O 14	P 3	0
47	EI	1	Total 32	C 10	N 5	O 14	P 3	0
47	EK	1	Total 32	C 10	N 5	O 14	P 3	0
47	EM	1	Total 32	C 10	N 5	O 14	P 3	0
47	FA	1	Total 32	C 10	N 5	O 14	P 3	0
47	FC	1	Total 32	C 10	N 5	O 14	P 3	0
47	FE	1	Total 32	C 10	N 5	O 14	P 3	0
47	FG	1	Total 32	C 10	N 5	O 14	P 3	0
47	FI	1	Total 32	C 10	N 5	O 14	P 3	0
47	FK	1	Total 32	C 10	N 5	O 14	P 3	0
47	FM	1	Total 32	C 10	N 5	O 14	P 3	0
47	GA	1	Total 32	C 10	N 5	O 14	P 3	0
47	GC	1	Total 32	C 10	N 5	O 14	P 3	0
47	GE	1	Total 32	C 10	N 5	O 14	P 3	0
47	GG	1	Total 32	C 10	N 5	O 14	P 3	0
47	GI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
47	GK	1	Total 32	C 10	N 5	O 14	P 3	0
47	GM	1	Total 32	C 10	N 5	O 14	P 3	0
47	HA	1	Total 32	C 10	N 5	O 14	P 3	0
47	HC	1	Total 32	C 10	N 5	O 14	P 3	0
47	HE	1	Total 32	C 10	N 5	O 14	P 3	0
47	HG	1	Total 32	C 10	N 5	O 14	P 3	0
47	HI	1	Total 32	C 10	N 5	O 14	P 3	0
47	HK	1	Total 32	C 10	N 5	O 14	P 3	0
47	HM	1	Total 32	C 10	N 5	O 14	P 3	0
47	IA	1	Total 32	C 10	N 5	O 14	P 3	0
47	IC	1	Total 32	C 10	N 5	O 14	P 3	0
47	IE	1	Total 32	C 10	N 5	O 14	P 3	0
47	IG	1	Total 32	C 10	N 5	O 14	P 3	0
47	II	1	Total 32	C 10	N 5	O 14	P 3	0
47	IK	1	Total 32	C 10	N 5	O 14	P 3	0
47	IM	1	Total 32	C 10	N 5	O 14	P 3	0
47	JA	1	Total 32	C 10	N 5	O 14	P 3	0
47	JC	1	Total 32	C 10	N 5	O 14	P 3	0
47	JE	1	Total 32	C 10	N 5	O 14	P 3	0
47	JG	1	Total 32	C 10	N 5	O 14	P 3	0
47	JI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
47	JK	1	Total 32	C 10	N 5	O 14	P 3	0
47	JM	1	Total 32	C 10	N 5	O 14	P 3	0
47	KA	1	Total 32	C 10	N 5	O 14	P 3	0
47	KC	1	Total 32	C 10	N 5	O 14	P 3	0
47	KE	1	Total 32	C 10	N 5	O 14	P 3	0
47	KG	1	Total 32	C 10	N 5	O 14	P 3	0
47	KI	1	Total 32	C 10	N 5	O 14	P 3	0
47	KK	1	Total 32	C 10	N 5	O 14	P 3	0
47	KM	1	Total 32	C 10	N 5	O 14	P 3	0
47	LA	1	Total 32	C 10	N 5	O 14	P 3	0
47	LC	1	Total 32	C 10	N 5	O 14	P 3	0
47	LE	1	Total 32	C 10	N 5	O 14	P 3	0
47	LG	1	Total 32	C 10	N 5	O 14	P 3	0
47	LI	1	Total 32	C 10	N 5	O 14	P 3	0
47	LK	1	Total 32	C 10	N 5	O 14	P 3	0
47	LM	1	Total 32	C 10	N 5	O 14	P 3	0
47	MA	1	Total 32	C 10	N 5	O 14	P 3	0
47	MC	1	Total 32	C 10	N 5	O 14	P 3	0
47	ME	1	Total 32	C 10	N 5	O 14	P 3	0
47	MG	1	Total 32	C 10	N 5	O 14	P 3	0
47	MI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
47	MK	1	Total 32	C 10	N 5	O 14	P 3	0
47	MM	1	Total 32	C 10	N 5	O 14	P 3	0
47	NA	1	Total 32	C 10	N 5	O 14	P 3	0
47	NC	1	Total 32	C 10	N 5	O 14	P 3	0
47	NE	1	Total 32	C 10	N 5	O 14	P 3	0
47	NG	1	Total 32	C 10	N 5	O 14	P 3	0
47	NI	1	Total 32	C 10	N 5	O 14	P 3	0
47	NK	1	Total 32	C 10	N 5	O 14	P 3	0
47	NM	1	Total 32	C 10	N 5	O 14	P 3	0
47	OA	1	Total 32	C 10	N 5	O 14	P 3	0
47	OC	1	Total 32	C 10	N 5	O 14	P 3	0
47	OF	1	Total 32	C 10	N 5	O 14	P 3	0
47	OG	1	Total 32	C 10	N 5	O 14	P 3	0
47	OI	1	Total 32	C 10	N 5	O 14	P 3	0
47	OK	1	Total 32	C 10	N 5	O 14	P 3	0
47	OM	1	Total 32	C 10	N 5	O 14	P 3	0
47	PA	1	Total 32	C 10	N 5	O 14	P 3	0
47	PD	1	Total 32	C 10	N 5	O 14	P 3	0
47	PE	1	Total 32	C 10	N 5	O 14	P 3	0
47	PG	1	Total 32	C 10	N 5	O 14	P 3	0
47	PI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms				AltConf	
			Total	C	N	O		P
47	PK	1	32	10	5	14	3	0
47	PM	1	32	10	5	14	3	0
47	QA	1	32	10	5	14	3	0
47	QC	1	32	10	5	14	3	0
47	QE	1	32	10	5	14	3	0
47	QG	1	32	10	5	14	3	0
47	QI	1	32	10	5	14	3	0
47	QK	1	32	10	5	14	3	0
47	QM	1	32	10	5	14	3	0
47	RA	1	32	10	5	14	3	0
47	RC	1	32	10	5	14	3	0
47	RE	1	32	10	5	14	3	0
47	RG	1	32	10	5	14	3	0
47	RI	1	32	10	5	14	3	0
47	RK	1	32	10	5	14	3	0
47	RM	1	32	10	5	14	3	0
47	SA	1	32	10	5	14	3	0
47	SC	1	32	10	5	14	3	0
47	SE	1	32	10	5	14	3	0
47	SG	1	32	10	5	14	3	0
47	SI	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
47	SK	1	Total 32	C 10	N 5	O 14	P 3	0
47	SM	1	Total 32	C 10	N 5	O 14	P 3	0
47	TA	1	Total 32	C 10	N 5	O 14	P 3	0
47	TC	1	Total 32	C 10	N 5	O 14	P 3	0
47	TE	1	Total 32	C 10	N 5	O 14	P 3	0
47	TG	1	Total 32	C 10	N 5	O 14	P 3	0
47	TI	1	Total 32	C 10	N 5	O 14	P 3	0
47	TK	1	Total 32	C 10	N 5	O 14	P 3	0
47	TM	1	Total 32	C 10	N 5	O 14	P 3	0
47	UA	1	Total 32	C 10	N 5	O 14	P 3	0
47	UC	1	Total 32	C 10	N 5	O 14	P 3	0
47	UE	1	Total 32	C 10	N 5	O 14	P 3	0
47	UG	1	Total 32	C 10	N 5	O 14	P 3	0
47	UI	1	Total 32	C 10	N 5	O 14	P 3	0
47	UK	1	Total 32	C 10	N 5	O 14	P 3	0
47	UM	1	Total 32	C 10	N 5	O 14	P 3	0
47	VA	1	Total 32	C 10	N 5	O 14	P 3	0
47	VC	1	Total 32	C 10	N 5	O 14	P 3	0
47	VE	1	Total 32	C 10	N 5	O 14	P 3	0
47	VG	1	Total 32	C 10	N 5	O 14	P 3	0
47	VI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
47	VK	1	32	10	5	14	3	0
47	VM	1	32	10	5	14	3	0
47	WA	1	32	10	5	14	3	0
47	WC	1	32	10	5	14	3	0
47	WE	1	32	10	5	14	3	0
47	WG	1	32	10	5	14	3	0
47	WI	1	32	10	5	14	3	0
47	WK	1	32	10	5	14	3	0
47	WM	1	32	10	5	14	3	0
47	CE	1	32	10	5	14	3	0
47	DC	1	32	10	5	14	3	0

- Molecule 48 is MAGNESIUM ION (three-letter code: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
48	AA	1	1	1	0
48	AC	1	1	1	0
48	AE	1	1	1	0
48	AG	1	1	1	0
48	AI	1	1	1	0
48	AK	1	1	1	0
48	AM	1	1	1	0
48	BA	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
48	BC	1	1	1	0
48	BE	1	1	1	0
48	BG	1	1	1	0
48	BI	1	1	1	0
48	BK	1	1	1	0
48	BM	1	1	1	0
48	CA	1	1	1	0
48	CC	1	1	1	0
48	CG	1	1	1	0
48	CI	1	1	1	0
48	CK	1	1	1	0
48	CM	1	1	1	0
48	DA	1	1	1	0
48	DE	1	1	1	0
48	DG	1	1	1	0
48	DI	1	1	1	0
48	DK	1	1	1	0
48	DM	1	1	1	0
48	EA	1	1	1	0
48	EC	1	1	1	0
48	EE	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
48	EG	1	1	1	0
48	EI	1	1	1	0
48	EK	1	1	1	0
48	EM	1	1	1	0
48	FA	1	1	1	0
48	FC	1	1	1	0
48	FE	1	1	1	0
48	FG	1	1	1	0
48	FI	1	1	1	0
48	FL	1	1	1	0
48	FM	1	1	1	0
48	GB	1	1	1	0
48	GC	1	1	1	0
48	GE	1	1	1	0
48	GG	1	1	1	0
48	GI	1	1	1	0
48	GL	1	1	1	0
48	GN	1	1	1	0
48	HA	1	1	1	0
48	HC	1	1	1	0
48	HE	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
48	HG	1	1	1	0
48	HI	1	1	1	0
48	HK	1	1	1	0
48	HM	1	1	1	0
48	IA	1	1	1	0
48	IC	1	1	1	0
48	IE	1	1	1	0
48	IG	1	1	1	0
48	II	1	1	1	0
48	IK	1	1	1	0
48	IM	1	1	1	0
48	JA	1	1	1	0
48	JC	1	1	1	0
48	JE	1	1	1	0
48	JG	1	1	1	0
48	JI	1	1	1	0
48	JK	1	1	1	0
48	JM	1	1	1	0
48	KA	1	1	1	0
48	KC	1	1	1	0
48	KE	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
48	KG	1	1	1	0
48	KI	1	1	1	0
48	KK	1	1	1	0
48	KM	1	1	1	0
48	LA	1	1	1	0
48	LC	1	1	1	0
48	LE	1	1	1	0
48	LG	1	1	1	0
48	LI	1	1	1	0
48	LK	1	1	1	0
48	LM	1	1	1	0
48	MA	1	1	1	0
48	MC	1	1	1	0
48	ME	1	1	1	0
48	MG	1	1	1	0
48	MI	1	1	1	0
48	MK	1	1	1	0
48	MM	1	1	1	0
48	NA	1	1	1	0
48	ND	1	1	1	0
48	NE	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
48	NG	1	1	1	0
48	NI	1	1	1	0
48	NK	1	1	1	0
48	NM	1	1	1	0
48	OA	1	1	1	0
48	OC	1	1	1	0
48	OE	1	1	1	0
48	OG	1	1	1	0
48	OI	1	1	1	0
48	OK	1	1	1	0
48	OM	1	1	1	0
48	PA	1	1	1	0
48	PC	1	1	1	0
48	PE	1	1	1	0
48	PG	1	1	1	0
48	PI	1	1	1	0
48	PK	1	1	1	0
48	PN	1	1	1	0
48	QA	1	1	1	0
48	QC	1	1	1	0
48	QE	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
48	QG	1	1	1	0
48	QI	1	1	1	0
48	QK	1	1	1	0
48	QM	1	1	1	0
48	RA	1	1	1	0
48	RC	1	1	1	0
48	RD	1	1	1	0
48	RG	1	1	1	0
48	RI	1	1	1	0
48	RK	1	1	1	0
48	RM	1	1	1	0
48	SA	1	1	1	0
48	SC	1	1	1	0
48	SE	1	1	1	0
48	SG	1	1	1	0
48	SI	1	1	1	0
48	SK	1	1	1	0
48	SM	1	1	1	0
48	TA	1	1	1	0
48	TB	1	1	1	0
48	TE	1	1	1	0

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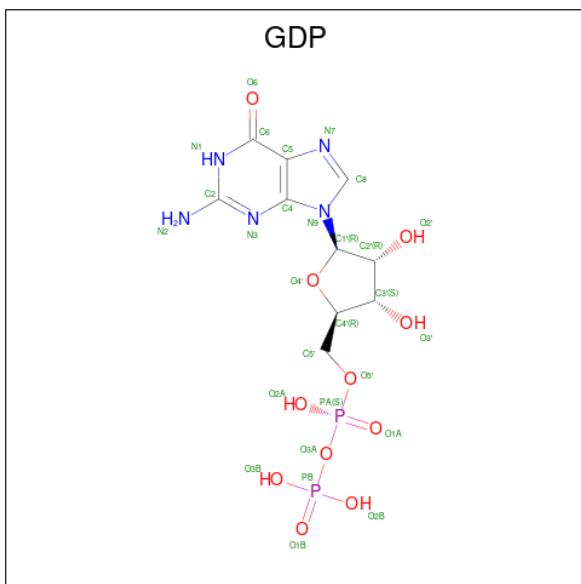
Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
48	TF	1	1	1	0
48	TI	1	1	1	0
48	TK	1	1	1	0
48	TL	1	1	1	0
48	UA	1	1	1	0
48	UC	1	1	1	0
48	UE	1	1	1	0
48	UG	1	1	1	0
48	UI	1	1	1	0
48	UK	1	1	1	0
48	UM	1	1	1	0
48	VA	1	1	1	0
48	VC	1	1	1	0
48	VE	1	1	1	0
48	VG	1	1	1	0
48	VI	1	1	1	0
48	VK	1	1	1	0
48	VM	1	1	1	0
48	WA	1	1	1	0
48	WC	1	1	1	0
48	WE	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
48	WG	1	Total	Mg	0
			1	1	
48	WI	1	Total	Mg	0
			1	1	
48	WK	1	Total	Mg	0
			1	1	
48	WM	1	Total	Mg	0
			1	1	
48	CE	1	Total	Mg	0
			1	1	
48	DC	1	Total	Mg	0
			1	1	

- Molecule 49 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula:  $C_{10}H_{15}N_5O_{11}P_2$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf	
49	AB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	AD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	AF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	AH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	AJ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	AL	1	Total 28	C 10	N 5	O 11	P 2	0
49	AN	1	Total 28	C 10	N 5	O 11	P 2	0
49	BB	1	Total 28	C 10	N 5	O 11	P 2	0
49	BD	1	Total 28	C 10	N 5	O 11	P 2	0
49	BF	1	Total 28	C 10	N 5	O 11	P 2	0
49	BH	1	Total 28	C 10	N 5	O 11	P 2	0
49	BJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	BL	1	Total 28	C 10	N 5	O 11	P 2	0
49	BN	1	Total 28	C 10	N 5	O 11	P 2	0
49	CB	1	Total 28	C 10	N 5	O 11	P 2	0
49	CD	1	Total 28	C 10	N 5	O 11	P 2	0
49	CF	1	Total 28	C 10	N 5	O 11	P 2	0
49	CH	1	Total 28	C 10	N 5	O 11	P 2	0
49	CJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	CL	1	Total 28	C 10	N 5	O 11	P 2	0
49	CN	1	Total 28	C 10	N 5	O 11	P 2	0
49	DB	1	Total 28	C 10	N 5	O 11	P 2	0
49	DD	1	Total 28	C 10	N 5	O 11	P 2	0
49	DF	1	Total 28	C 10	N 5	O 11	P 2	0
49	DH	1	Total 28	C 10	N 5	O 11	P 2	0
49	DJ	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	DL	1	28	10	5	11	2	0
49	DN	1	28	10	5	11	2	0
49	EB	1	28	10	5	11	2	0
49	ED	1	28	10	5	11	2	0
49	EF	1	28	10	5	11	2	0
49	EH	1	28	10	5	11	2	0
49	EJ	1	28	10	5	11	2	0
49	EL	1	28	10	5	11	2	0
49	EN	1	28	10	5	11	2	0
49	FB	1	28	10	5	11	2	0
49	FD	1	28	10	5	11	2	0
49	FF	1	28	10	5	11	2	0
49	FH	1	28	10	5	11	2	0
49	FJ	1	28	10	5	11	2	0
49	FL	1	28	10	5	11	2	0
49	FN	1	28	10	5	11	2	0
49	GB	1	28	10	5	11	2	0
49	GD	1	28	10	5	11	2	0
49	GF	1	28	10	5	11	2	0
49	GH	1	28	10	5	11	2	0
49	GJ	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	GL	1	Total 28	C 10	N 5	O 11	P 2	0
49	GN	1	Total 28	C 10	N 5	O 11	P 2	0
49	HB	1	Total 28	C 10	N 5	O 11	P 2	0
49	HD	1	Total 28	C 10	N 5	O 11	P 2	0
49	HF	1	Total 28	C 10	N 5	O 11	P 2	0
49	HH	1	Total 28	C 10	N 5	O 11	P 2	0
49	HJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	HL	1	Total 28	C 10	N 5	O 11	P 2	0
49	HN	1	Total 28	C 10	N 5	O 11	P 2	0
49	IB	1	Total 28	C 10	N 5	O 11	P 2	0
49	ID	1	Total 28	C 10	N 5	O 11	P 2	0
49	IF	1	Total 28	C 10	N 5	O 11	P 2	0
49	IH	1	Total 28	C 10	N 5	O 11	P 2	0
49	IJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	IL	1	Total 28	C 10	N 5	O 11	P 2	0
49	IN	1	Total 28	C 10	N 5	O 11	P 2	0
49	JB	1	Total 28	C 10	N 5	O 11	P 2	0
49	JD	1	Total 28	C 10	N 5	O 11	P 2	0
49	JF	1	Total 28	C 10	N 5	O 11	P 2	0
49	JH	1	Total 28	C 10	N 5	O 11	P 2	0
49	JJ	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	JL	1	28	10	5	11	2	0
49	JN	1	28	10	5	11	2	0
49	KB	1	28	10	5	11	2	0
49	KD	1	28	10	5	11	2	0
49	KF	1	28	10	5	11	2	0
49	KH	1	28	10	5	11	2	0
49	KJ	1	28	10	5	11	2	0
49	KL	1	28	10	5	11	2	0
49	KN	1	28	10	5	11	2	0
49	LB	1	28	10	5	11	2	0
49	LD	1	28	10	5	11	2	0
49	LF	1	28	10	5	11	2	0
49	LH	1	28	10	5	11	2	0
49	LJ	1	28	10	5	11	2	0
49	LL	1	28	10	5	11	2	0
49	LN	1	28	10	5	11	2	0
49	MB	1	28	10	5	11	2	0
49	MD	1	28	10	5	11	2	0
49	MF	1	28	10	5	11	2	0
49	MH	1	28	10	5	11	2	0
49	MJ	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	ML	1	28	10	5	11	2	0
49	MN	1	28	10	5	11	2	0
49	NB	1	28	10	5	11	2	0
49	ND	1	28	10	5	11	2	0
49	NF	1	28	10	5	11	2	0
49	NH	1	28	10	5	11	2	0
49	NJ	1	28	10	5	11	2	0
49	NL	1	28	10	5	11	2	0
49	NN	1	28	10	5	11	2	0
49	OB	1	28	10	5	11	2	0
49	OD	1	28	10	5	11	2	0
49	OF	1	28	10	5	11	2	0
49	OH	1	28	10	5	11	2	0
49	OJ	1	28	10	5	11	2	0
49	OL	1	28	10	5	11	2	0
49	ON	1	28	10	5	11	2	0
49	PB	1	28	10	5	11	2	0
49	PD	1	28	10	5	11	2	0
49	PF	1	28	10	5	11	2	0
49	PH	1	28	10	5	11	2	0
49	PJ	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	PL	1	Total 28	C 10	N 5	O 11	P 2	0
49	PN	1	Total 28	C 10	N 5	O 11	P 2	0
49	QB	1	Total 28	C 10	N 5	O 11	P 2	0
49	QD	1	Total 28	C 10	N 5	O 11	P 2	0
49	QF	1	Total 28	C 10	N 5	O 11	P 2	0
49	QH	1	Total 28	C 10	N 5	O 11	P 2	0
49	QJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	QL	1	Total 28	C 10	N 5	O 11	P 2	0
49	QN	1	Total 28	C 10	N 5	O 11	P 2	0
49	RB	1	Total 28	C 10	N 5	O 11	P 2	0
49	RD	1	Total 28	C 10	N 5	O 11	P 2	0
49	RF	1	Total 28	C 10	N 5	O 11	P 2	0
49	RH	1	Total 28	C 10	N 5	O 11	P 2	0
49	RJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	RL	1	Total 28	C 10	N 5	O 11	P 2	0
49	RN	1	Total 28	C 10	N 5	O 11	P 2	0
49	SB	1	Total 28	C 10	N 5	O 11	P 2	0
49	SD	1	Total 28	C 10	N 5	O 11	P 2	0
49	SF	1	Total 28	C 10	N 5	O 11	P 2	0
49	SH	1	Total 28	C 10	N 5	O 11	P 2	0
49	SJ	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	SL	1	Total 28	C 10	N 5	O 11	P 2	0
49	SN	1	Total 28	C 10	N 5	O 11	P 2	0
49	TB	1	Total 28	C 10	N 5	O 11	P 2	0
49	TD	1	Total 28	C 10	N 5	O 11	P 2	0
49	TF	1	Total 28	C 10	N 5	O 11	P 2	0
49	TH	1	Total 28	C 10	N 5	O 11	P 2	0
49	TJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	TL	1	Total 28	C 10	N 5	O 11	P 2	0
49	TN	1	Total 28	C 10	N 5	O 11	P 2	0
49	UB	1	Total 28	C 10	N 5	O 11	P 2	0
49	UD	1	Total 28	C 10	N 5	O 11	P 2	0
49	UF	1	Total 28	C 10	N 5	O 11	P 2	0
49	UH	1	Total 28	C 10	N 5	O 11	P 2	0
49	UJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	UL	1	Total 28	C 10	N 5	O 11	P 2	0
49	UN	1	Total 28	C 10	N 5	O 11	P 2	0
49	VB	1	Total 28	C 10	N 5	O 11	P 2	0
49	VD	1	Total 28	C 10	N 5	O 11	P 2	0
49	VF	1	Total 28	C 10	N 5	O 11	P 2	0
49	VH	1	Total 28	C 10	N 5	O 11	P 2	0
49	VJ	1	Total 28	C 10	N 5	O 11	P 2	0

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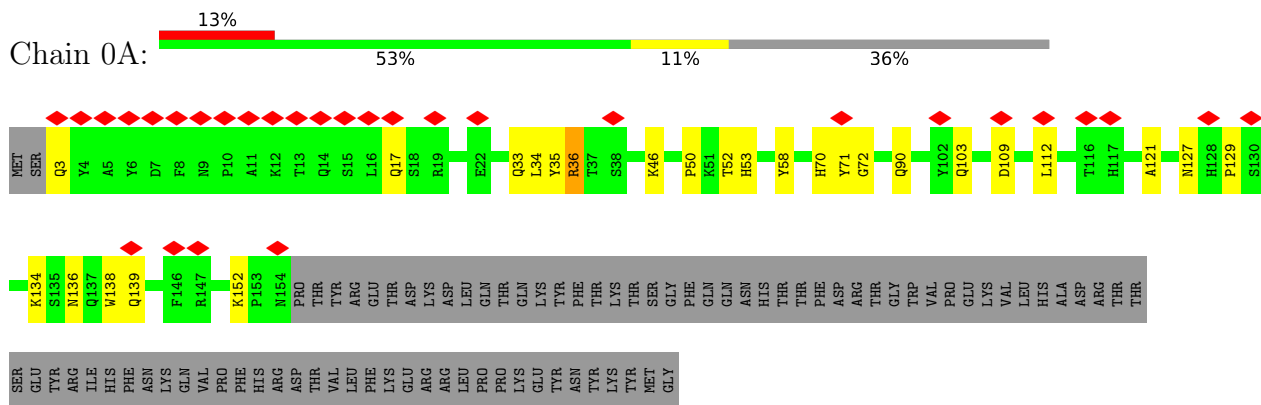
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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	VL	1	Total 28	C 10	N 5	O 11	P 2	0
49	VN	1	Total 28	C 10	N 5	O 11	P 2	0
49	WB	1	Total 28	C 10	N 5	O 11	P 2	0
49	WD	1	Total 28	C 10	N 5	O 11	P 2	0
49	WF	1	Total 28	C 10	N 5	O 11	P 2	0
49	WH	1	Total 28	C 10	N 5	O 11	P 2	0
49	WJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	WL	1	Total 28	C 10	N 5	O 11	P 2	0
49	WN	1	Total 28	C 10	N 5	O 11	P 2	0

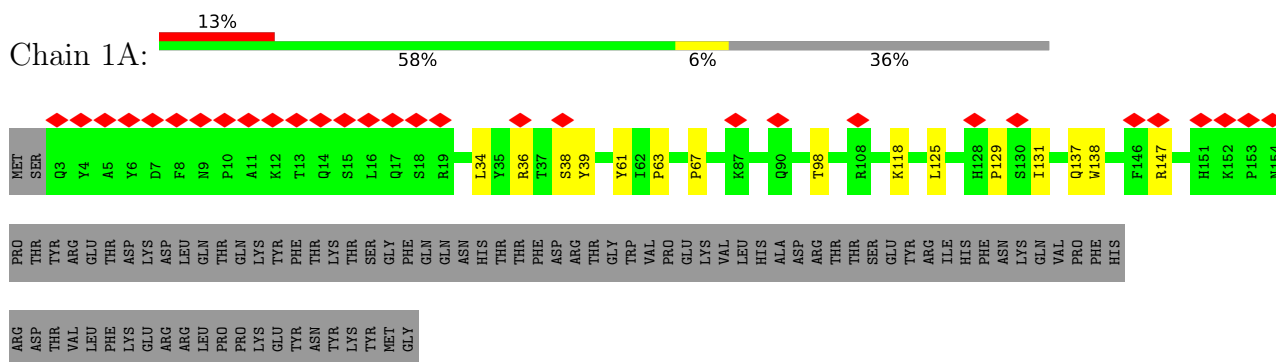
# 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

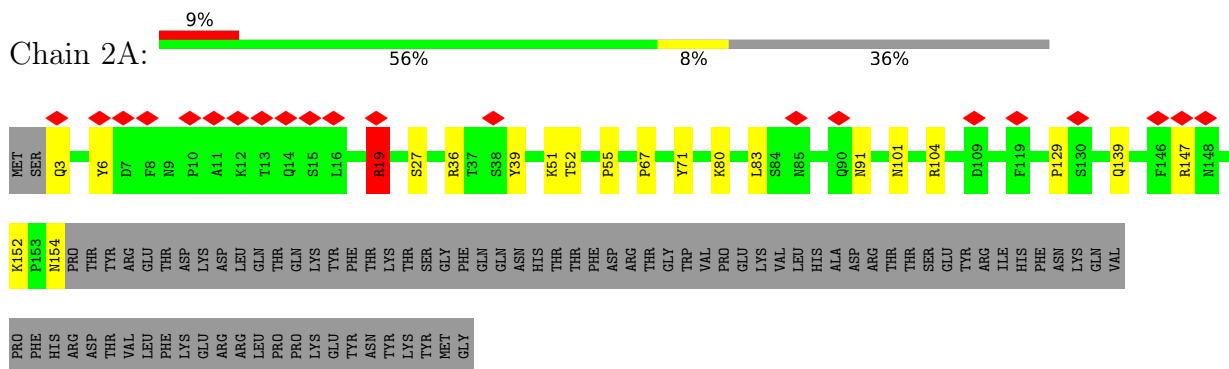
• Molecule 1: RIB27A



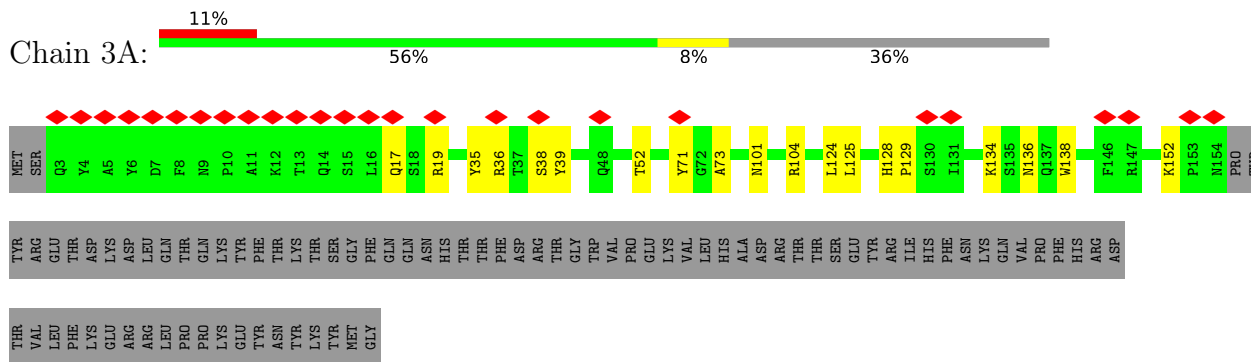
• Molecule 1: RIB27A



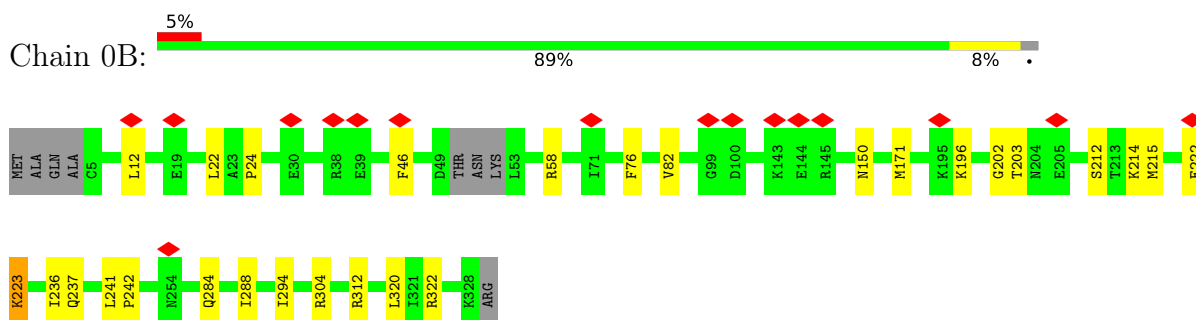
• Molecule 1: RIB27A



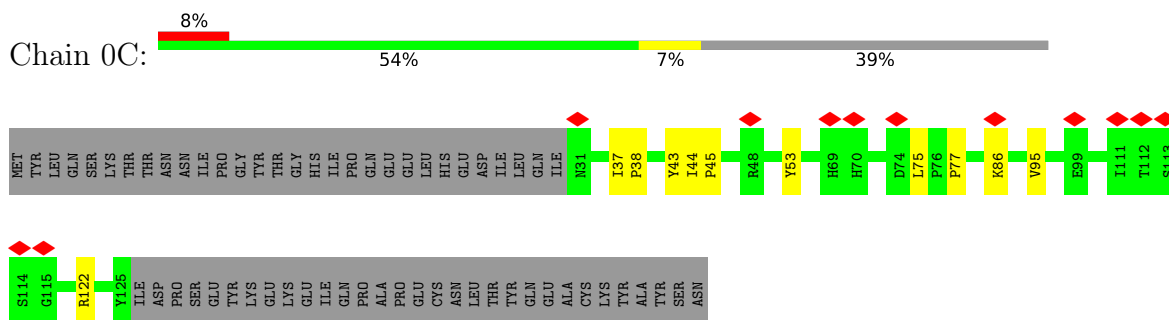
• Molecule 1: RIB27A



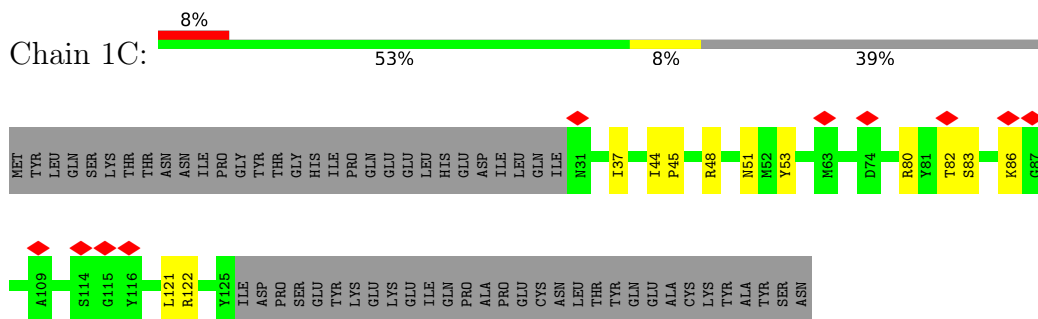
• Molecule 2: RIB38



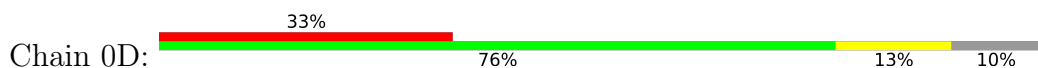
• Molecule 3: CFAM166B



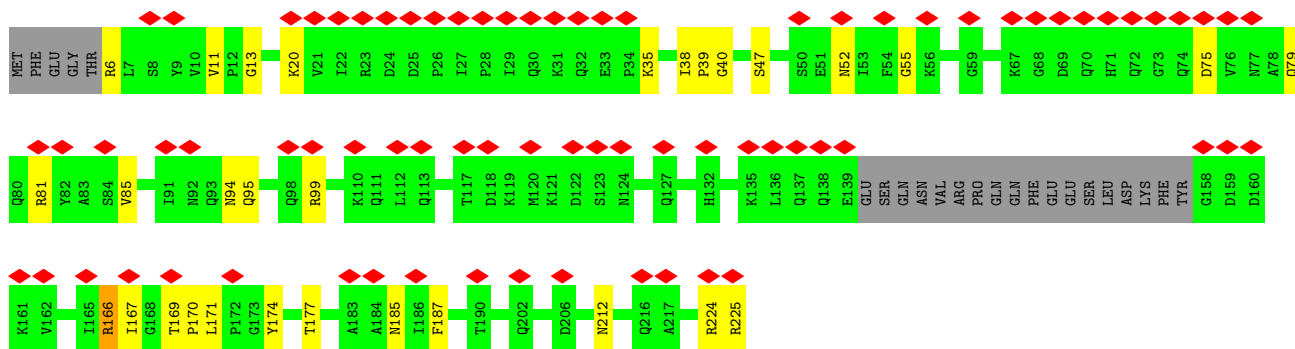
• Molecule 3: CFAM166B



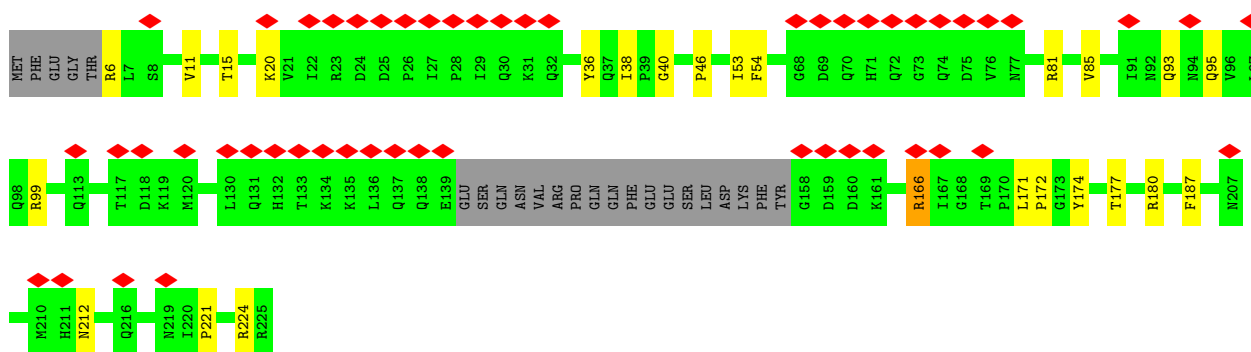
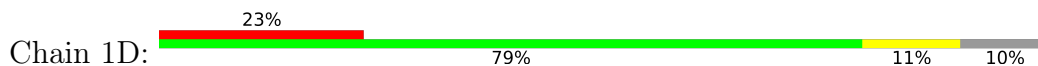
• Molecule 4: CFAM166A



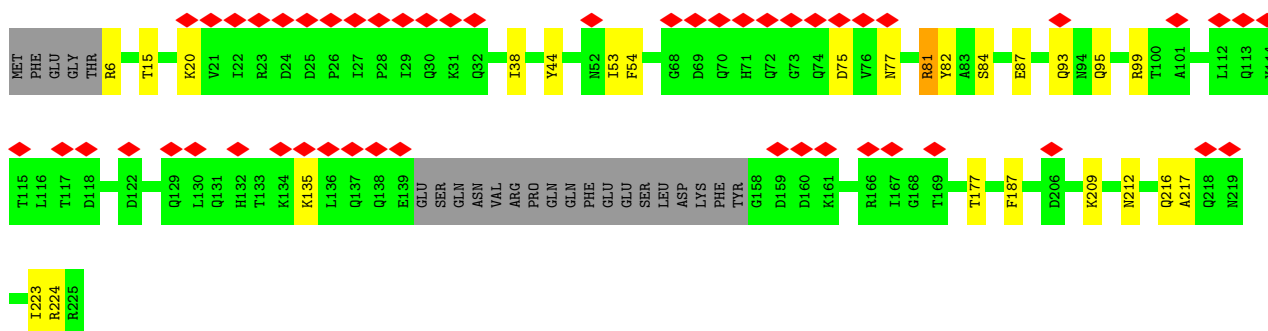
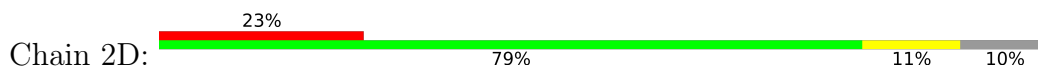




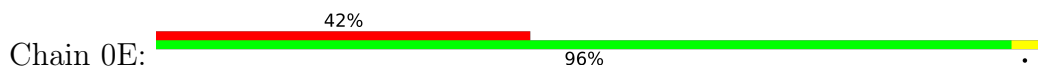
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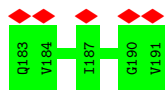


• Molecule 4: CFAM166A



• Molecule 5: RIB22

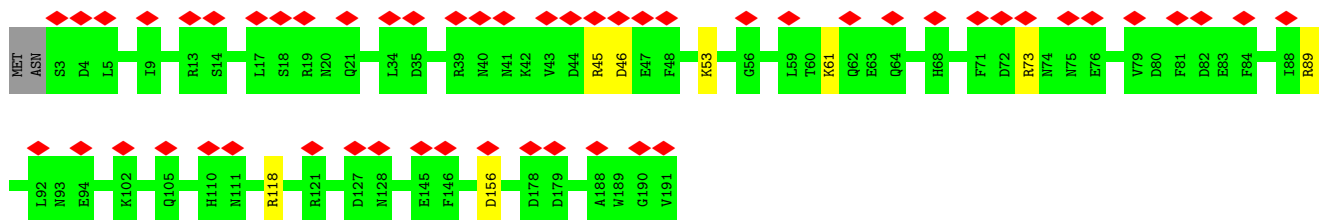




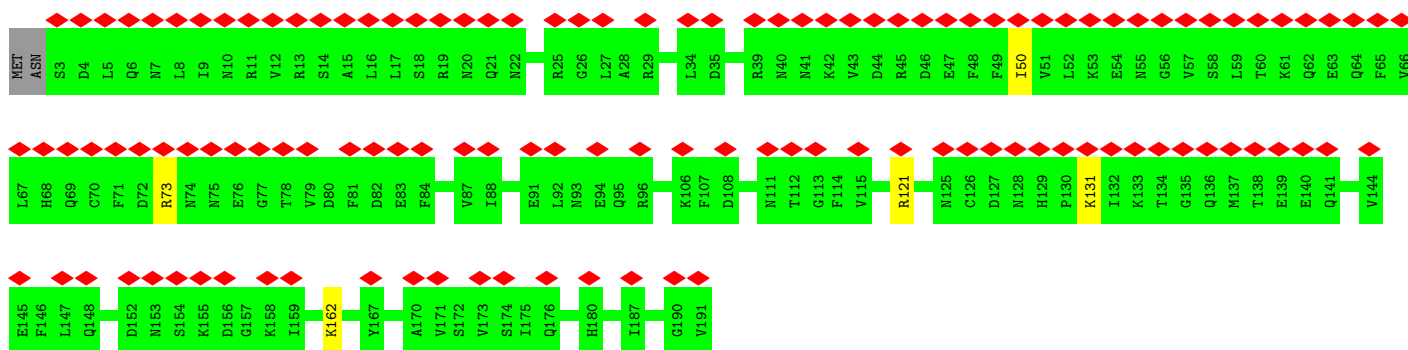
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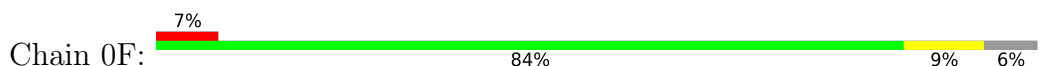
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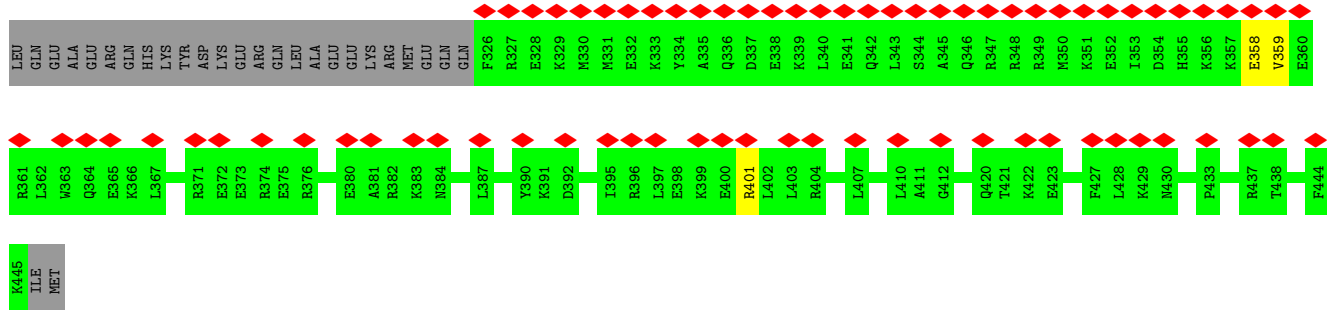
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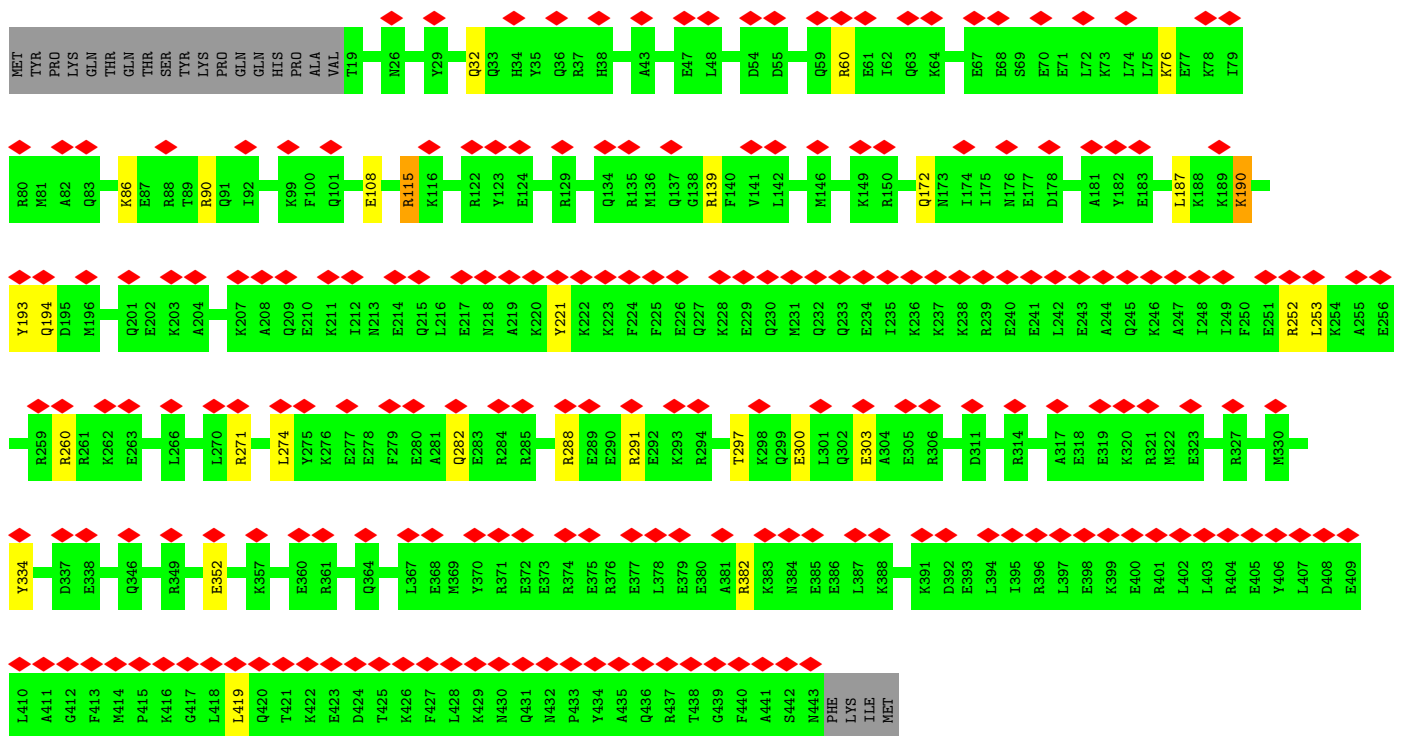
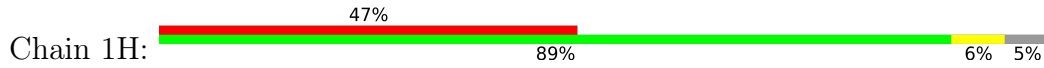
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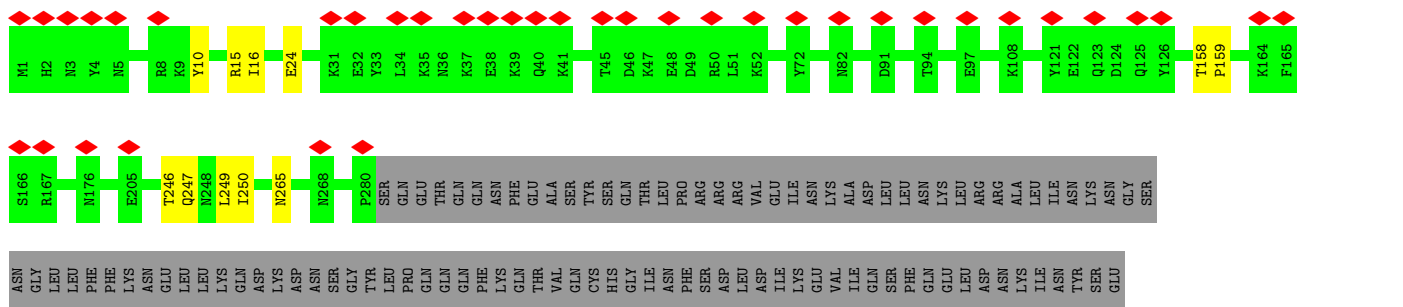




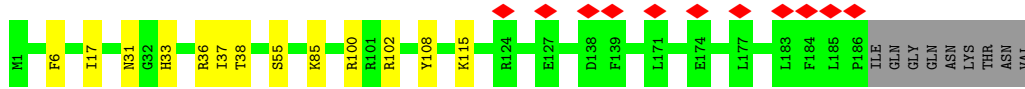
• Molecule 8: CFAP127



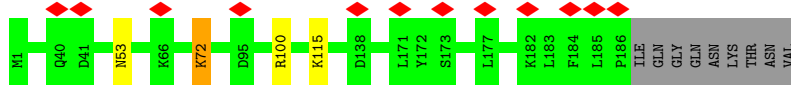
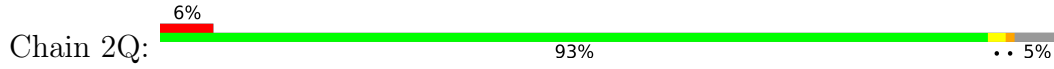
• Molecule 9: CFAP161A



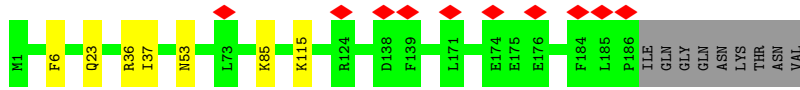
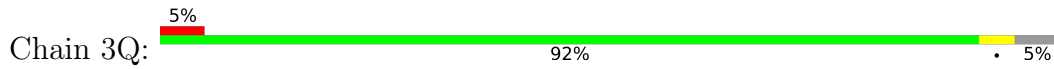




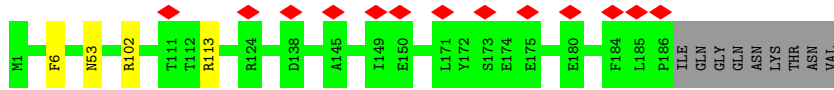
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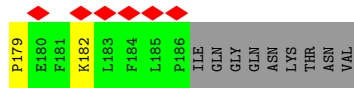
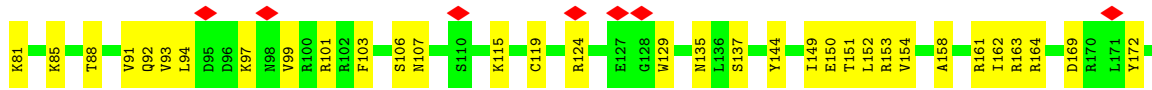
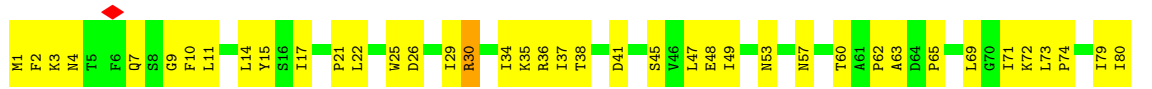
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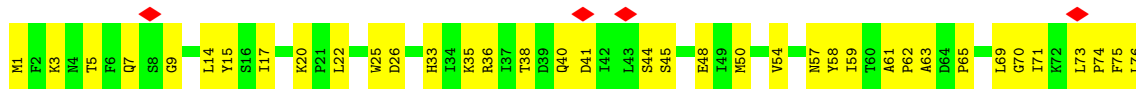
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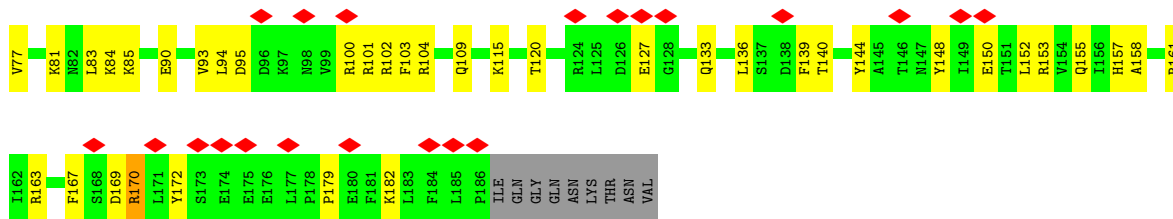


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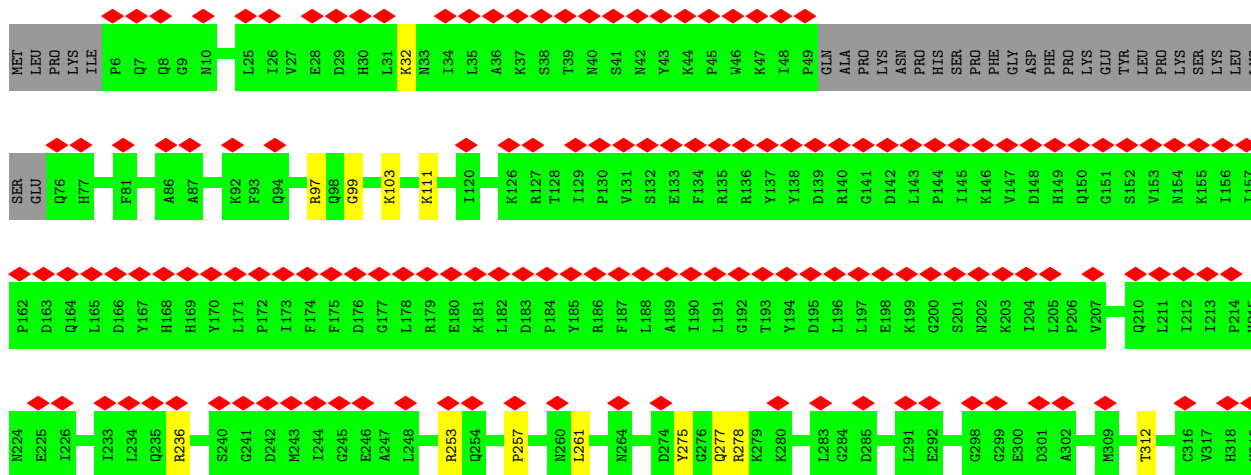
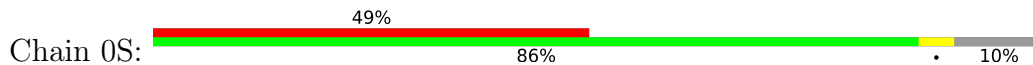


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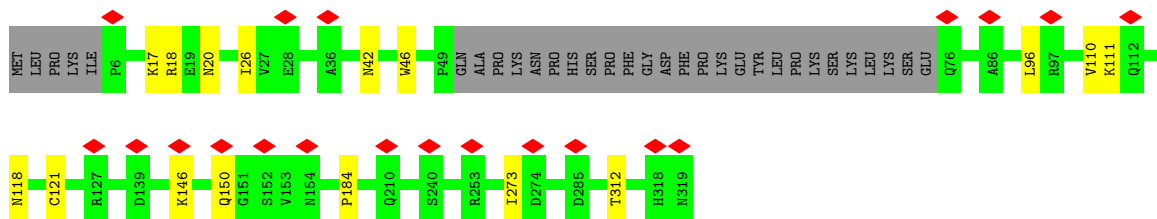
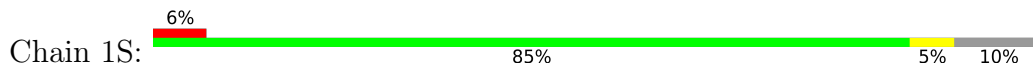




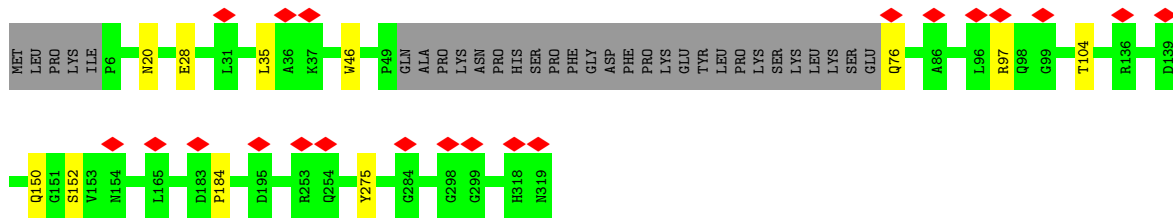
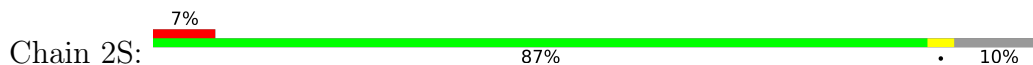
• Molecule 11: Parkin co-regulated protein PACRGA



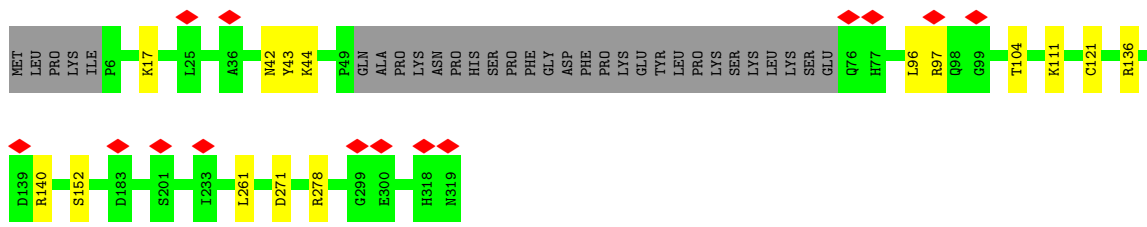
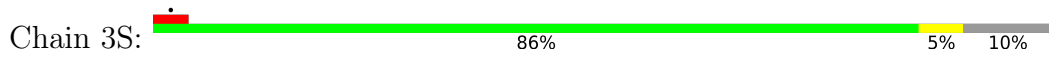
• Molecule 11: Parkin co-regulated protein PACRGA



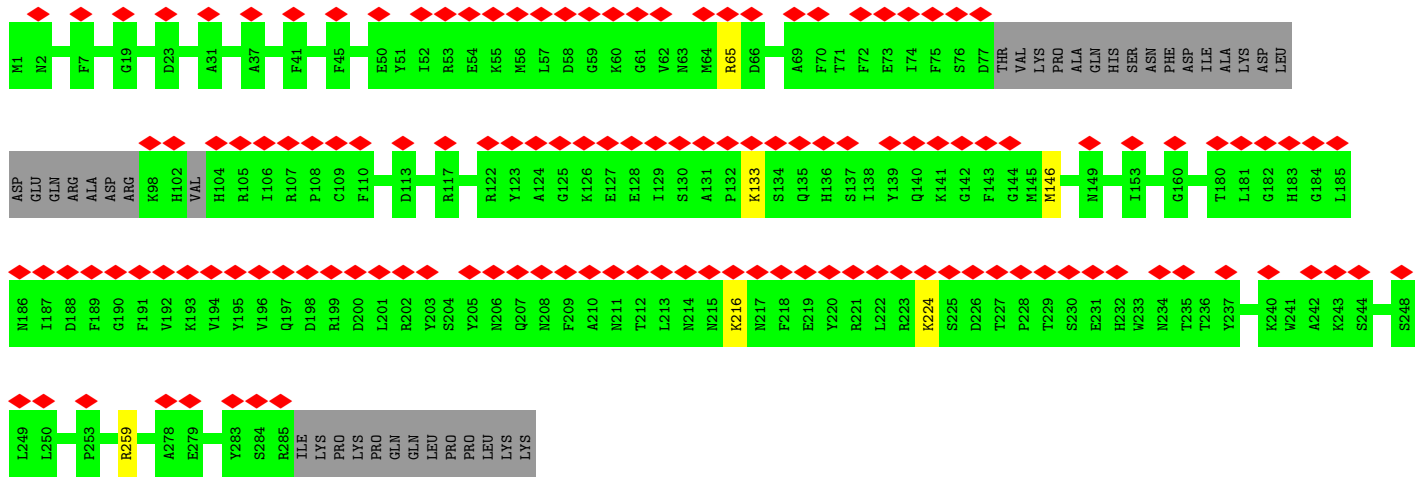
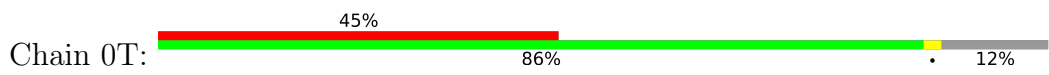
• Molecule 11: Parkin co-regulated protein PACRGA



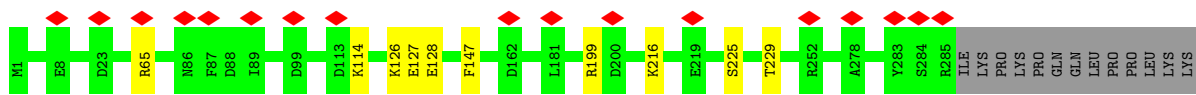
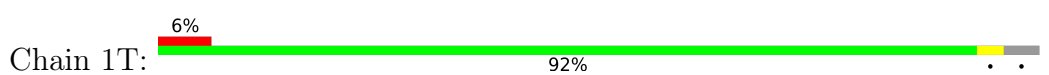
• Molecule 11: Parkin co-regulated protein PACRGA



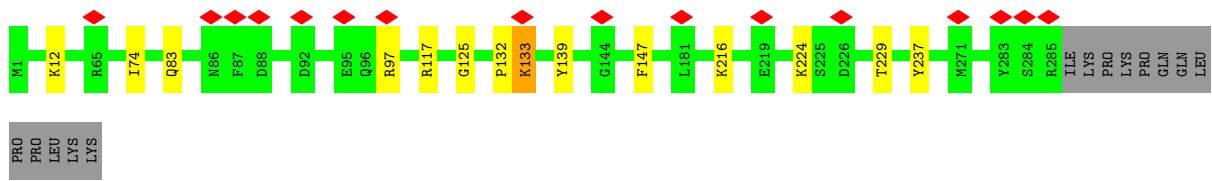
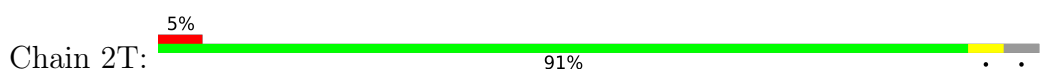
• Molecule 12: IJ34



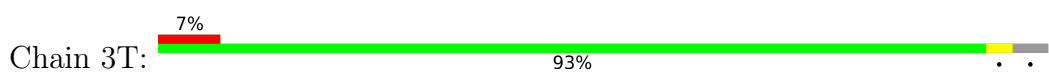
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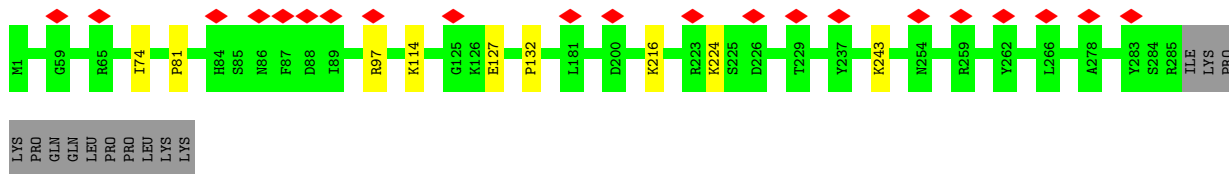
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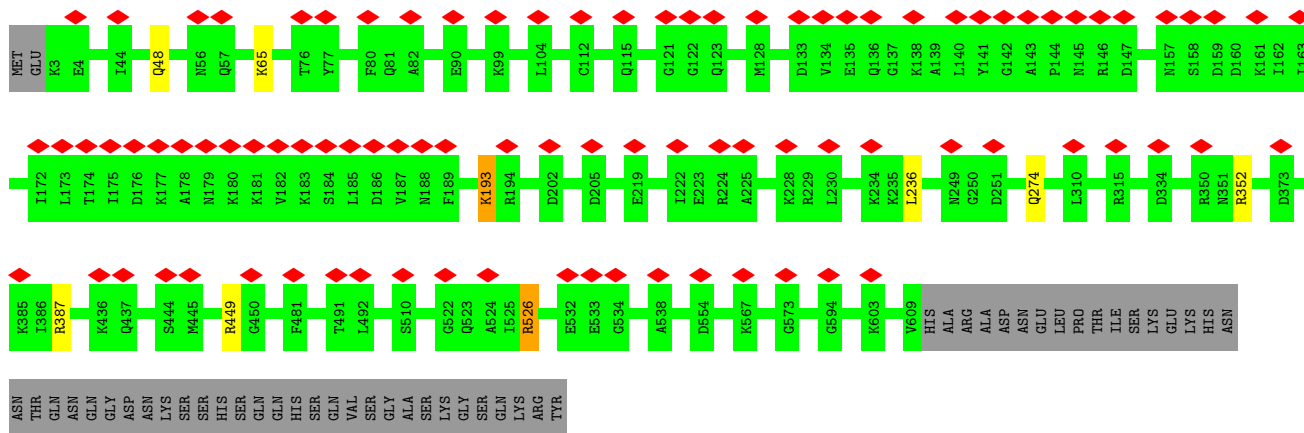
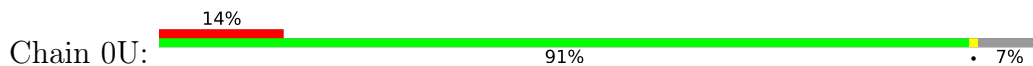
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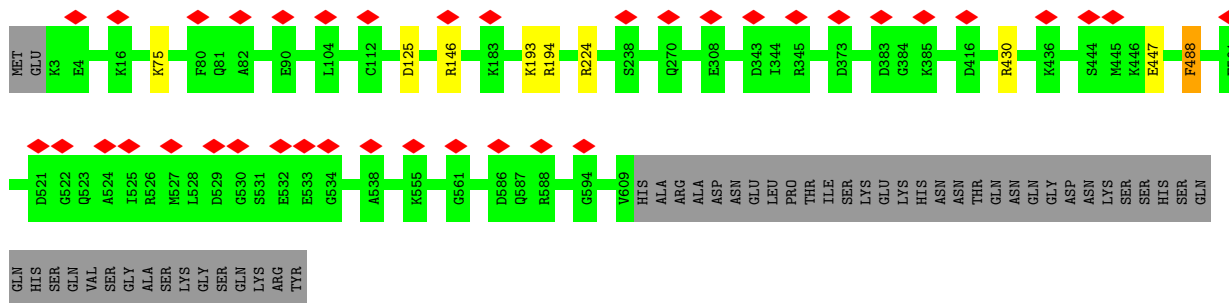




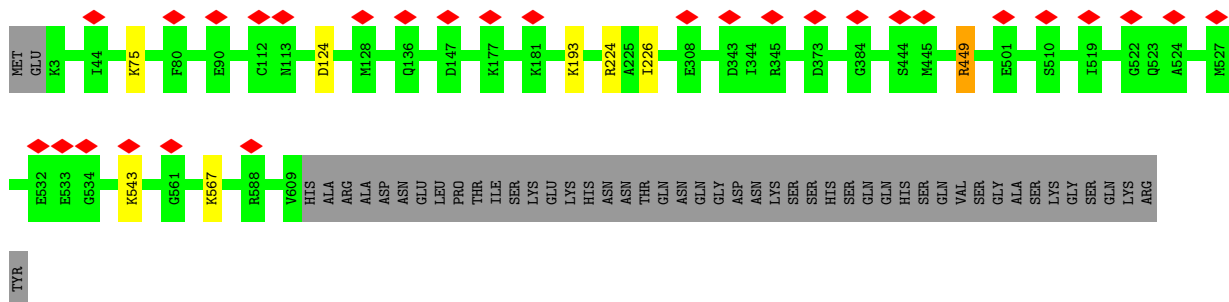
• Molecule 13: CFAP52A



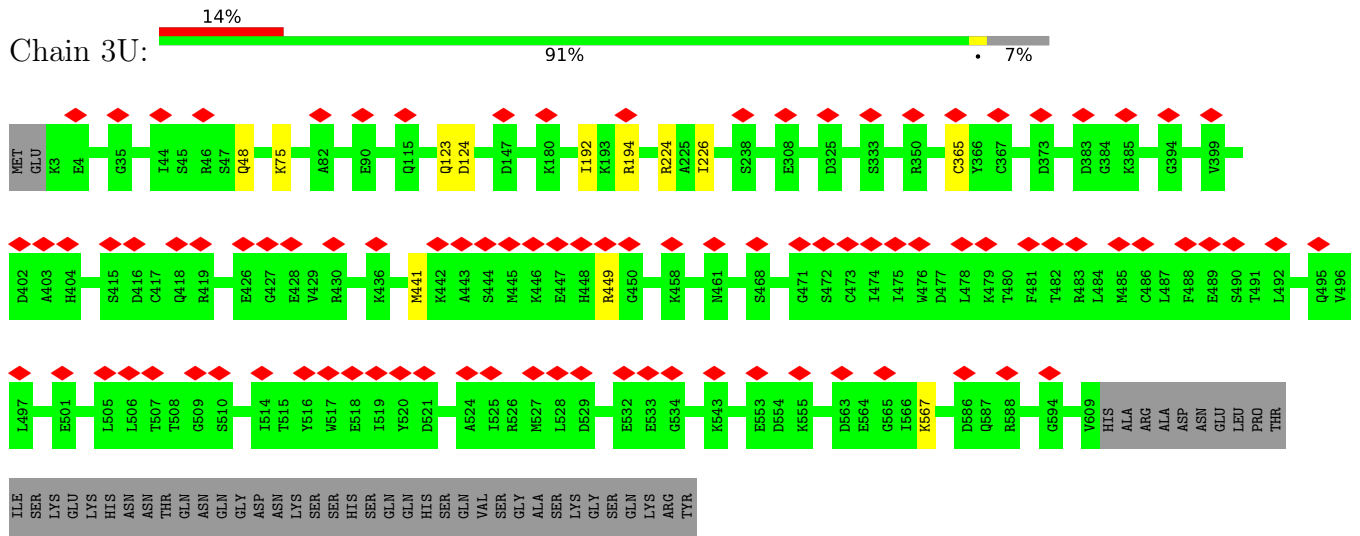
• Molecule 13: CFAP52A



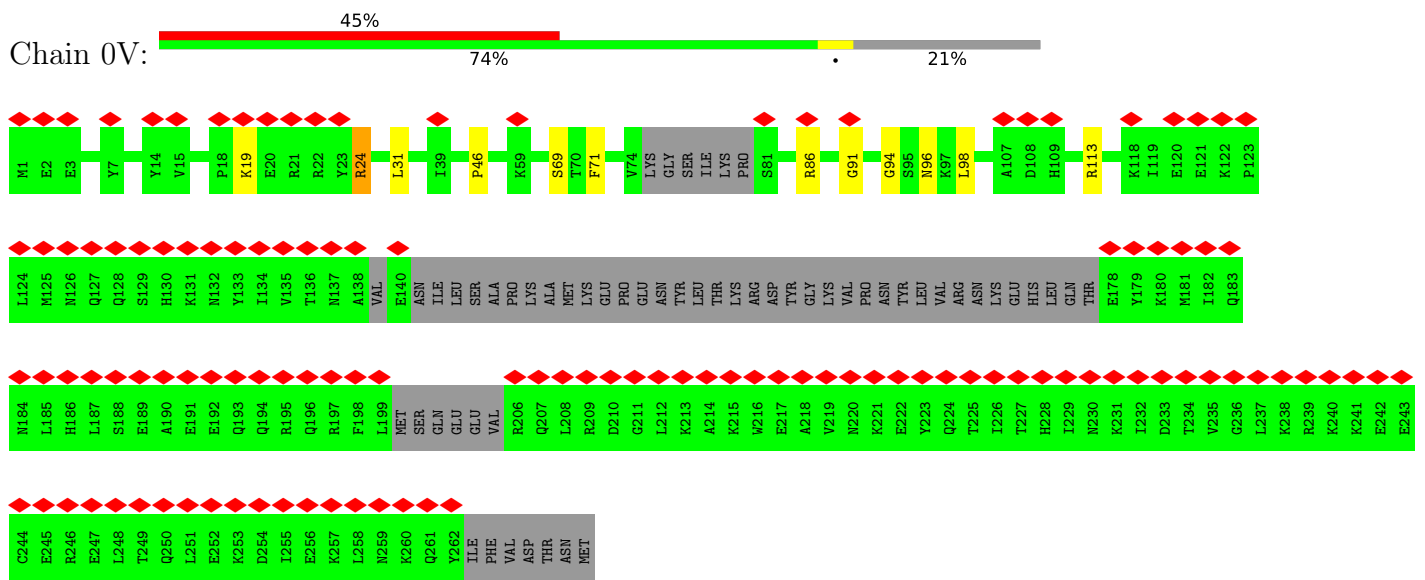
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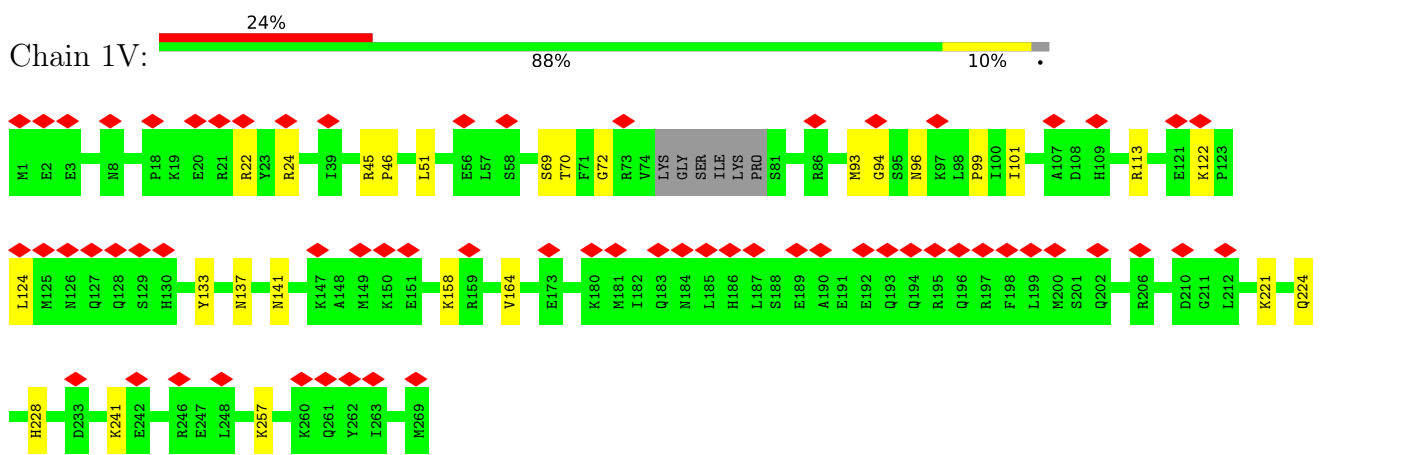
• Molecule 13: CFAP52A



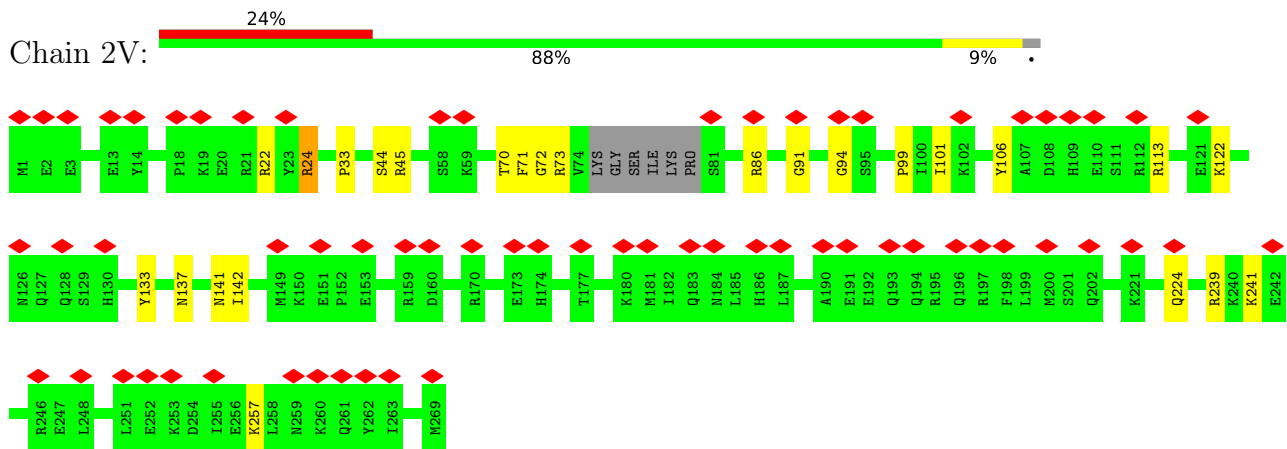
• Molecule 14: DNA polymerase delta C4-type zinc-finger protein



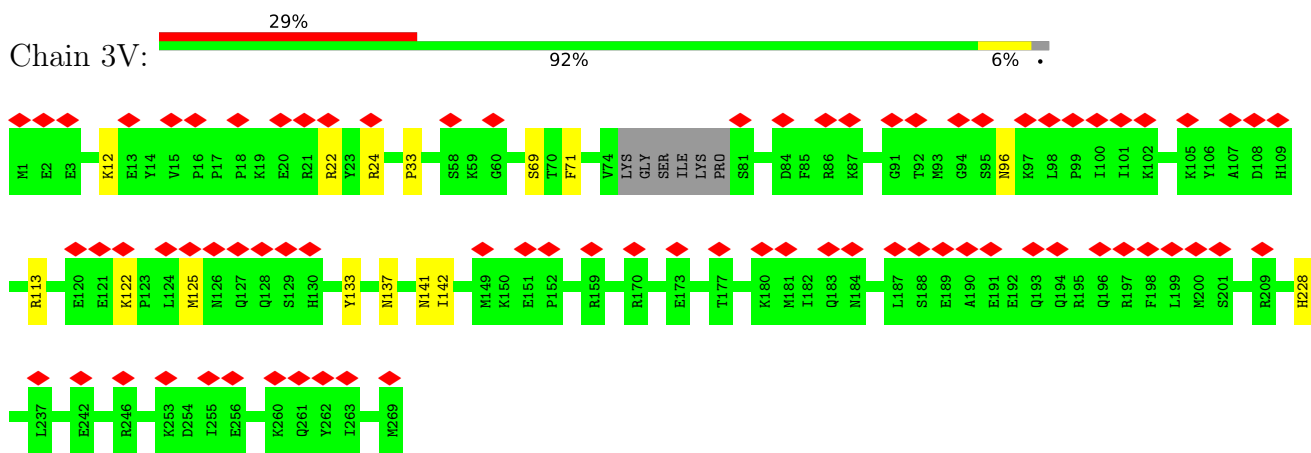
• Molecule 14: DNA polymerase delta C4-type zinc-finger protein



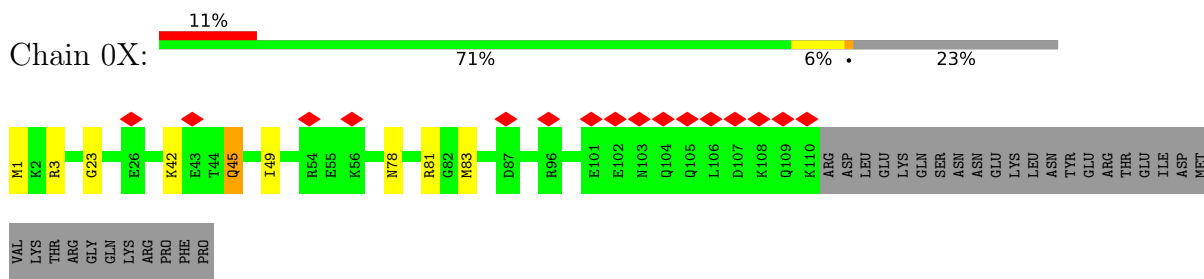
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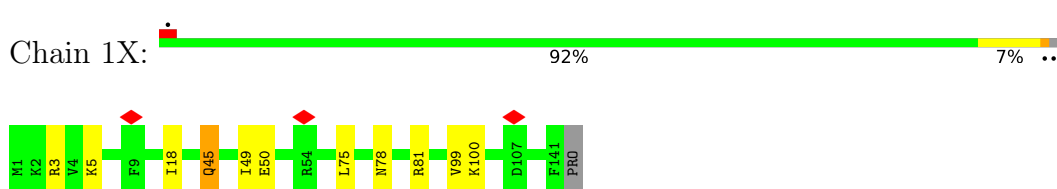
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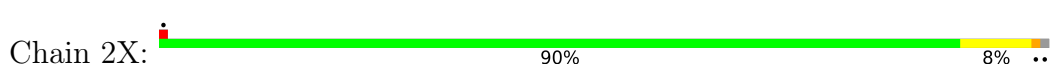
• Molecule 15: RIB43A protein

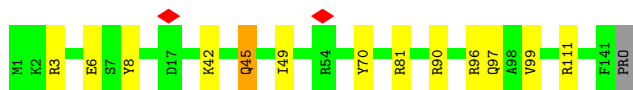


• Molecule 15: RIB43A protein

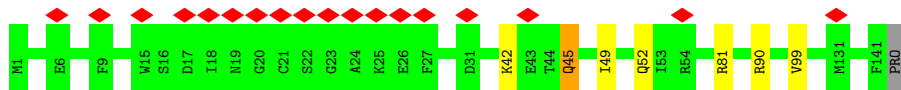


• Molecule 15: RIB43A protein

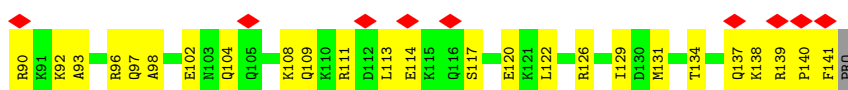




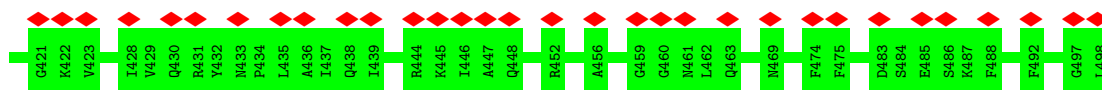
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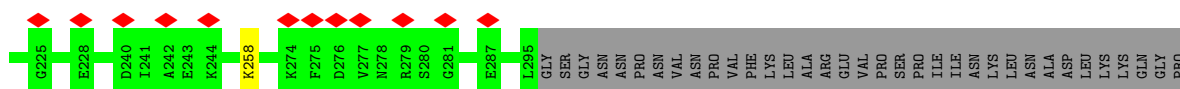
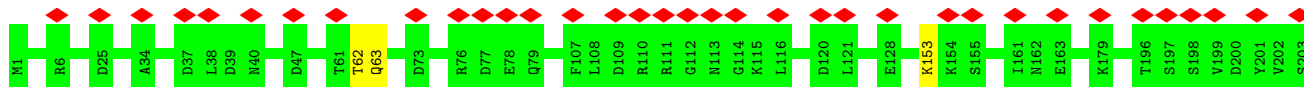
• Molecule 15: RIB43A protein



• Molecule 16: RIB57



• Molecule 16: RIB57

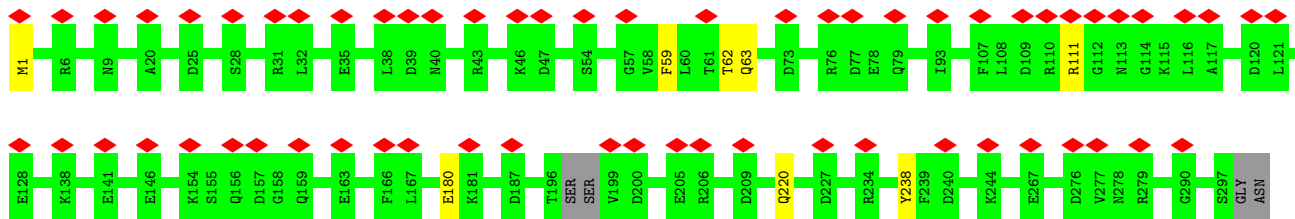


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VAL PHE ILE ASP VAL ARG GLN GLN SER SER LEU ILE THR GLN SER SER SER GLY TYR ASP ALA LEU ALA SER ASN ASN ILE VAL THR VAL VAL SER LEU THR ARG LEU LEU ILE ILE THR ARG THR LEU

GLN ARG  
GLU GLY  
PHE ASN  
VAL LEU  
ALA GLN  
GLU VAL  
TRP PHE  
GLY LYS  
ASN ALA  
PHE VAL  
GLU VAL  
PHE PHE  
SER SER  
ASP VAL  
ALA ARG  
PHE PHE  
CYS CYS  
ASP ASP  
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SER SER  
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PHE PHE  
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• Molecule 16: RIB57



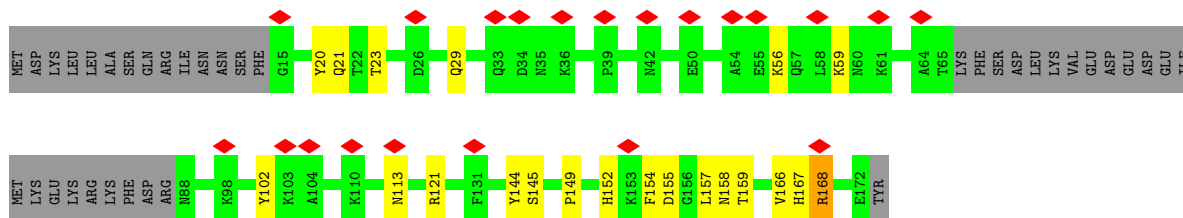
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VAL ASP  
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PRO PHE  
PRO ILE  
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ASN ASN  
LYS LEU  
LEU ASN  
TYR ALA  
ARG ASP  
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ILE LYS  
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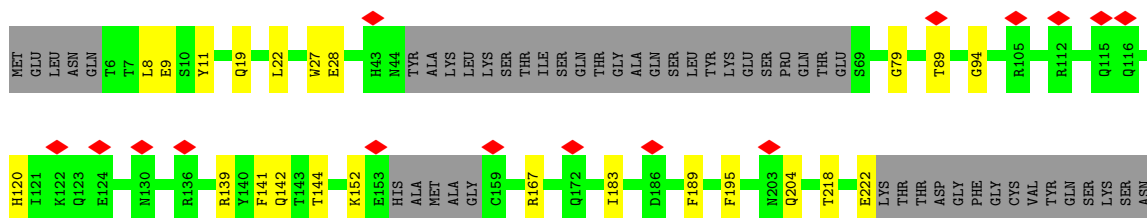
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GLN GLY  
LYS LYS  
ALA ALA  
ARG ARG

ALA PHE  
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• Molecule 17: CFAP182A



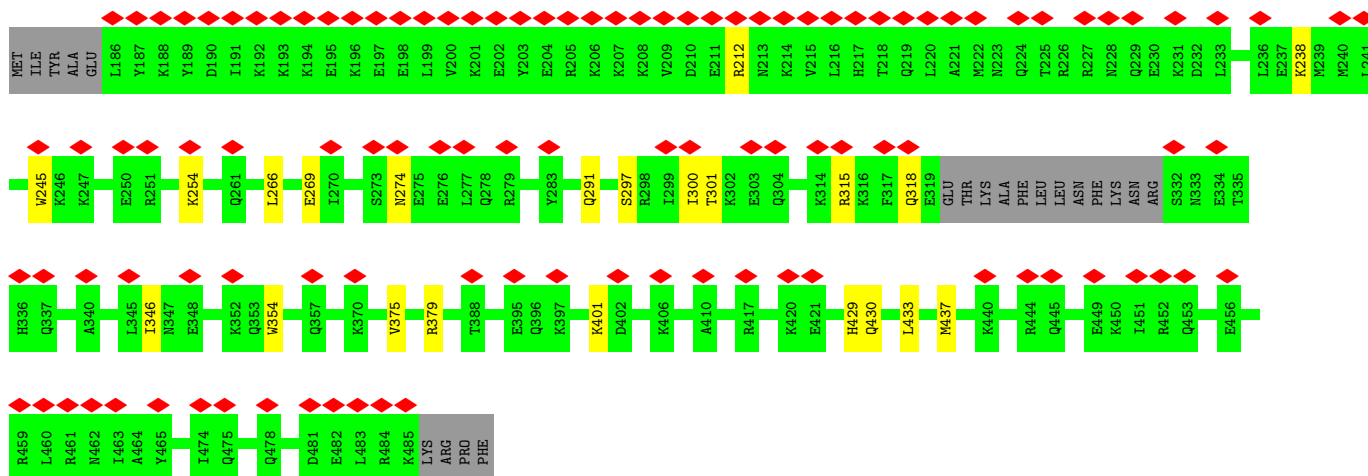
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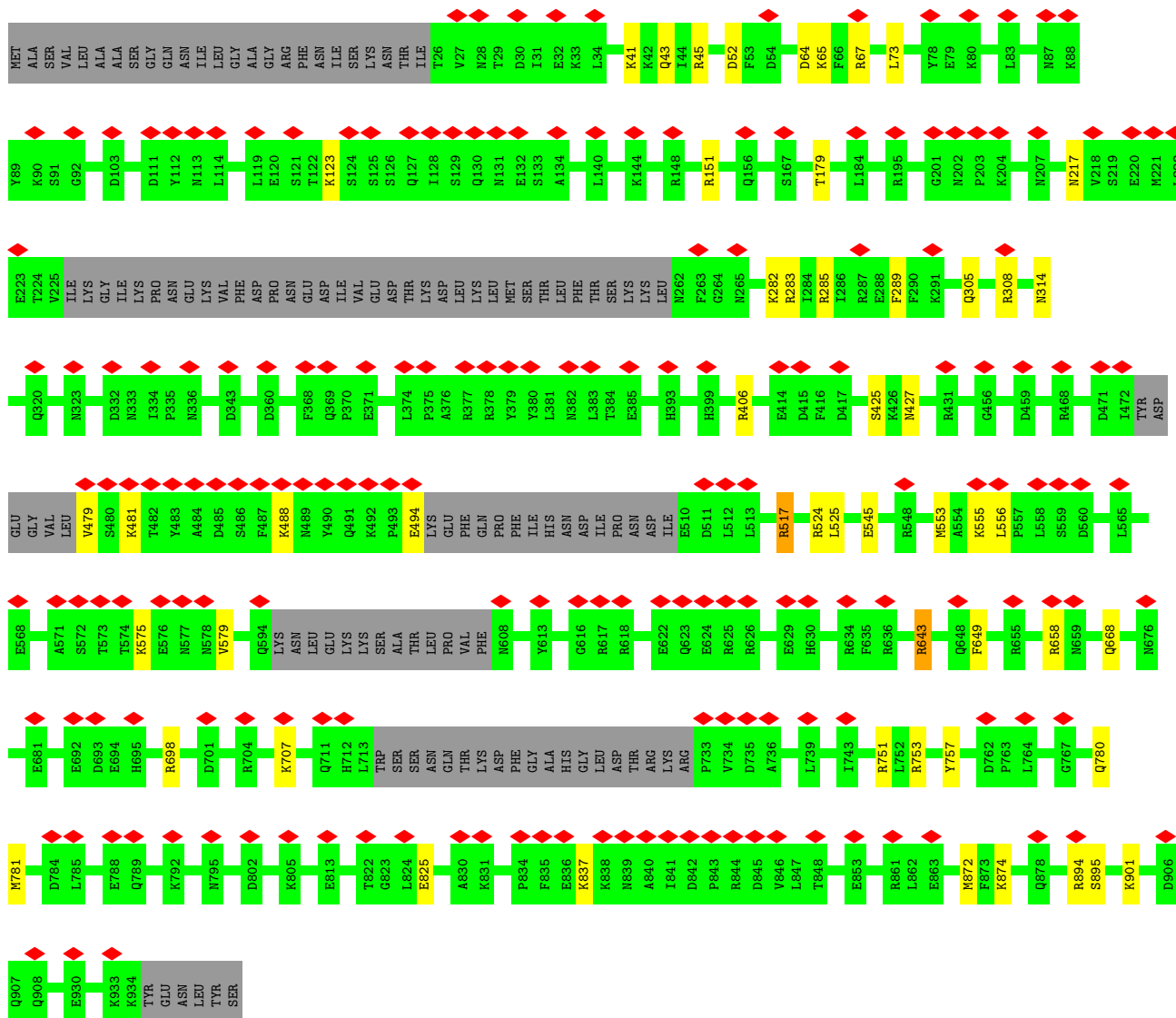
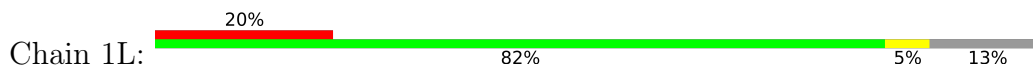
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ASN ASN  
ASN ASN  
GLN GLN  
PHE PHE  
LEU LEU  
LYS LYS  
THR THR  
PHE PHE  
HIS HIS  
ASP ASP  
TYR TYR  
SER SER  
HIS HIS  
HIS HIS  
VAL VAL  
ARG ARG  
LYS LYS

• Molecule 19: CFAP21A



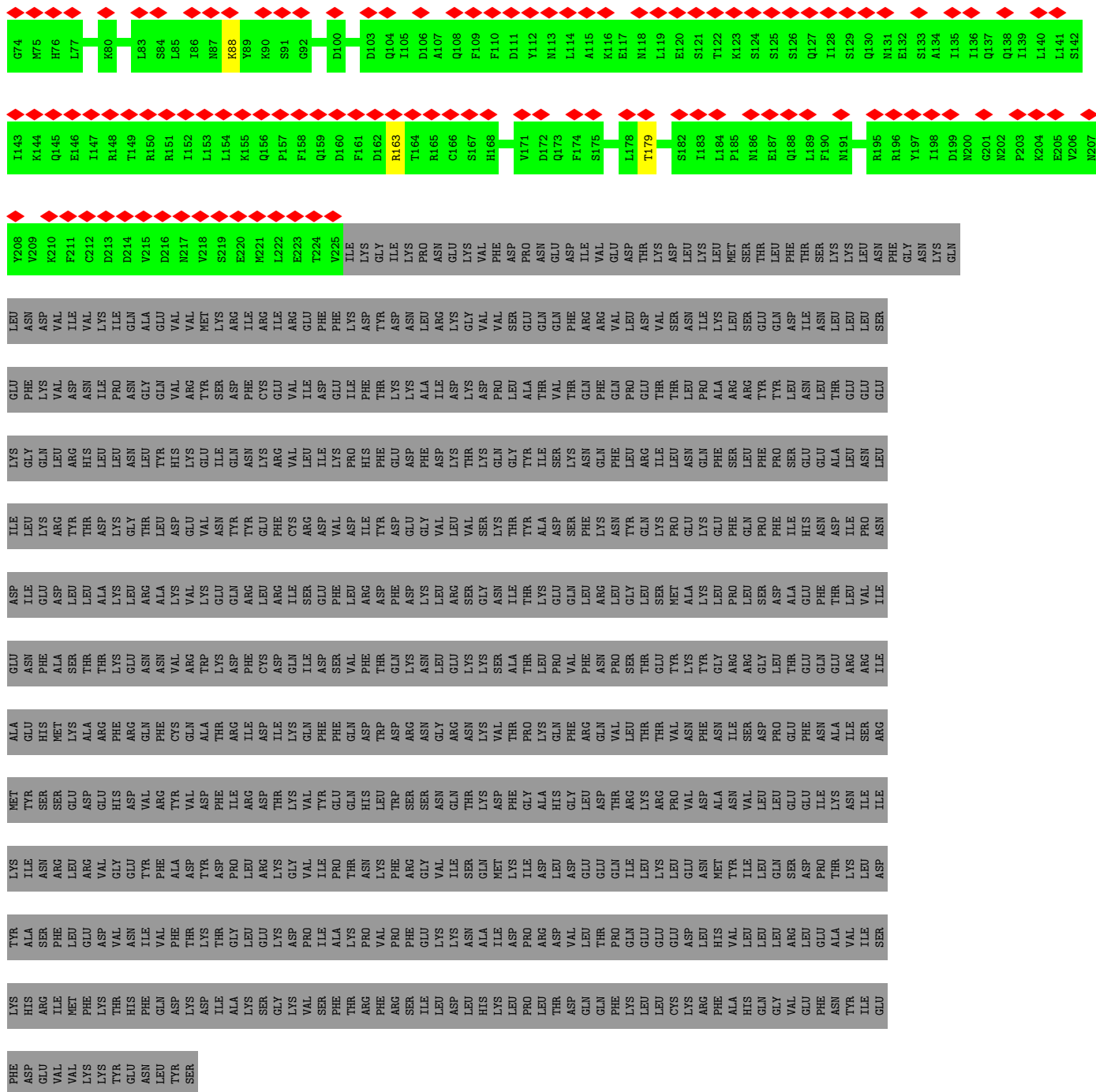


• Molecule 21: CFAP115

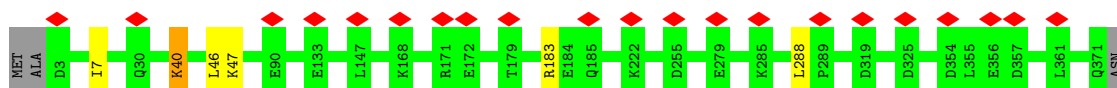






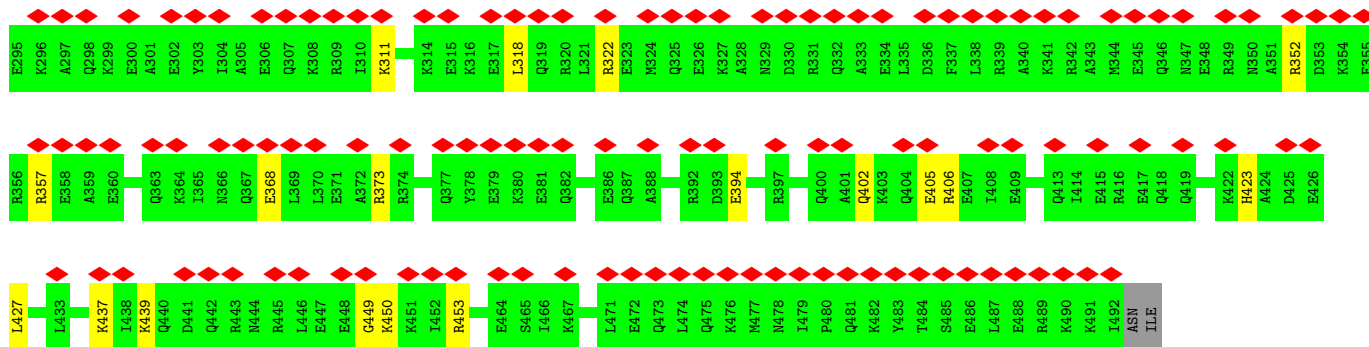


● Molecule 22: Nucleoside diphosphate kinase

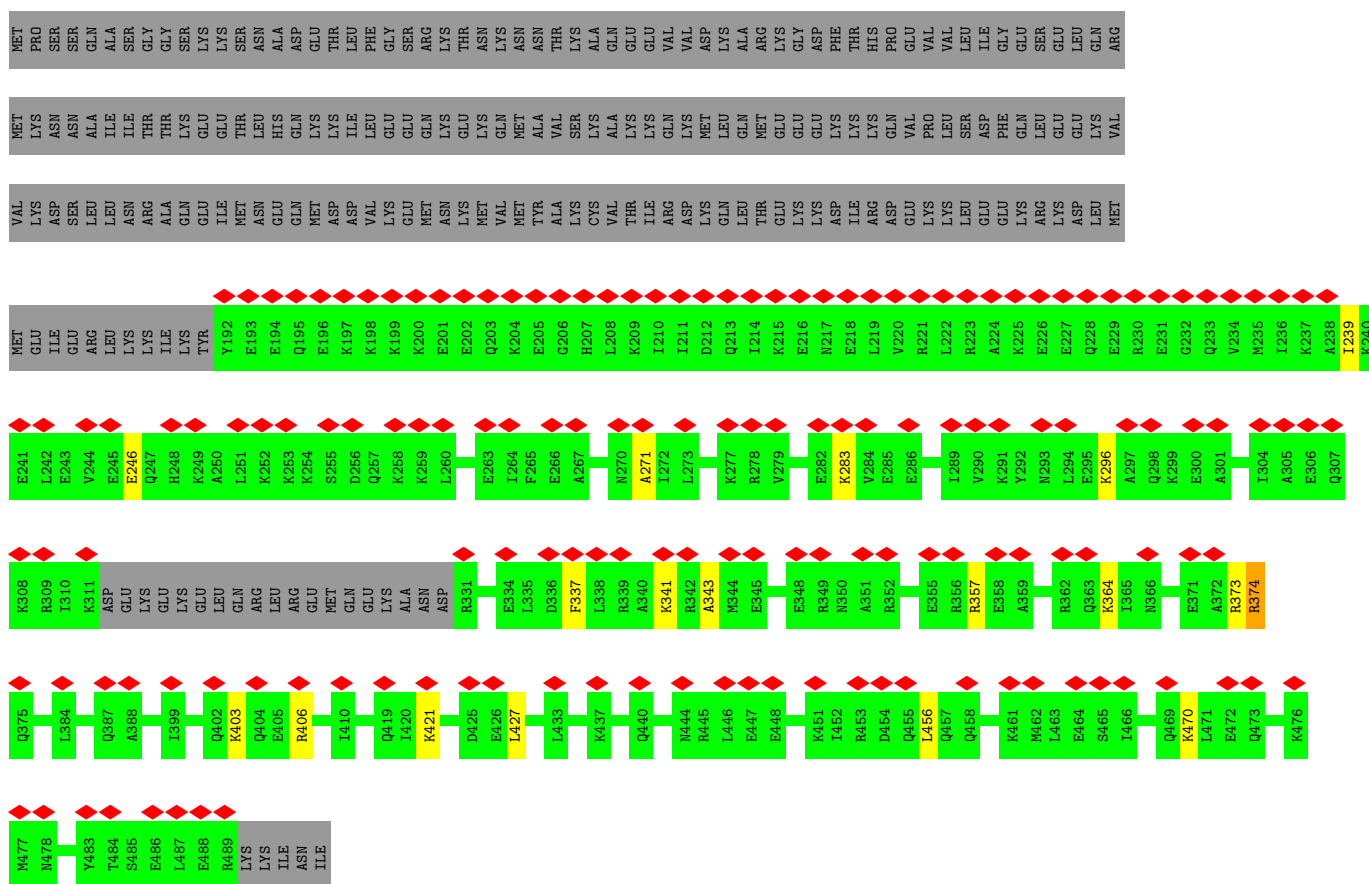


● Molecule 22: Nucleoside diphosphate kinase

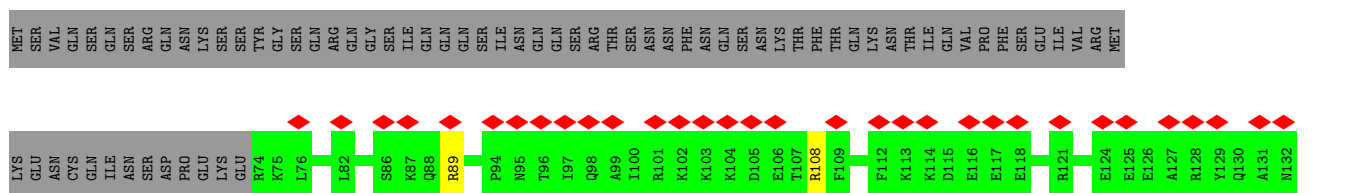


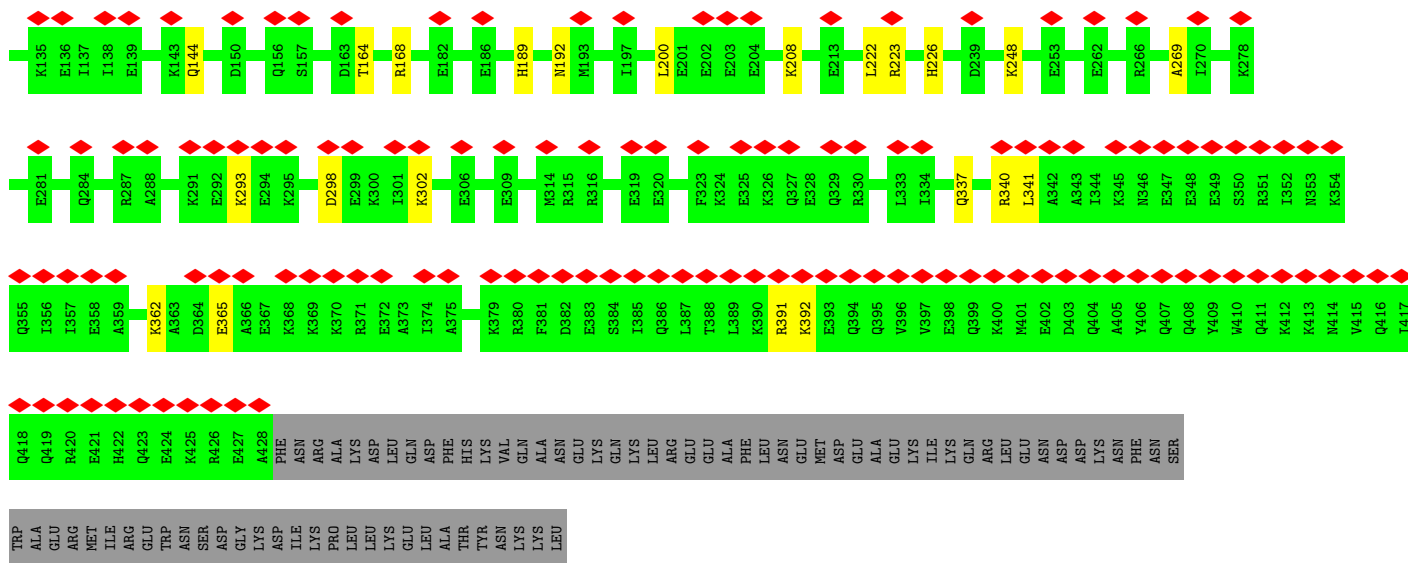


• Molecule 23: Cilia- and flagella-associated protein 45

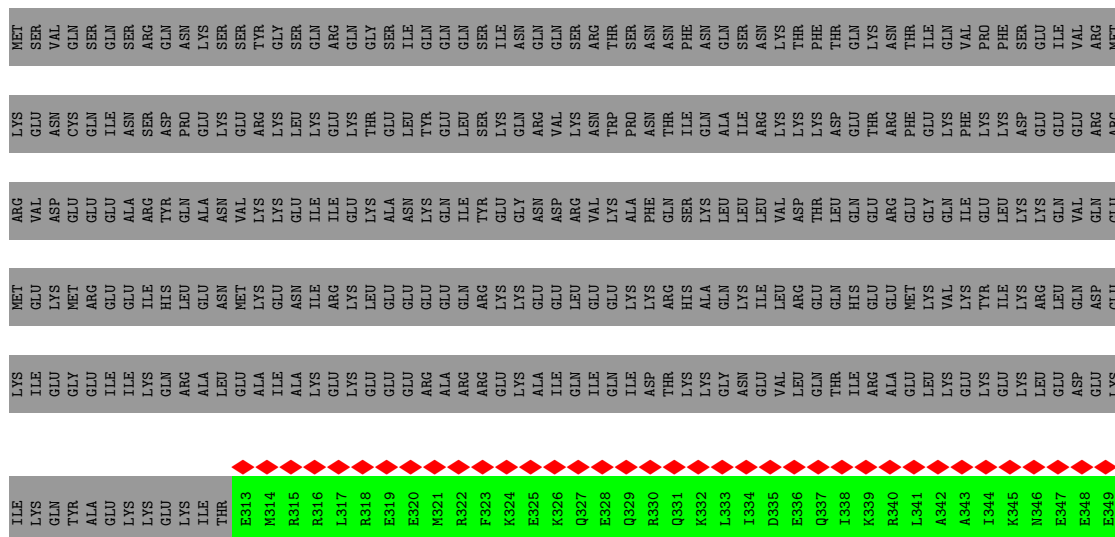


• Molecule 24: CFAP210

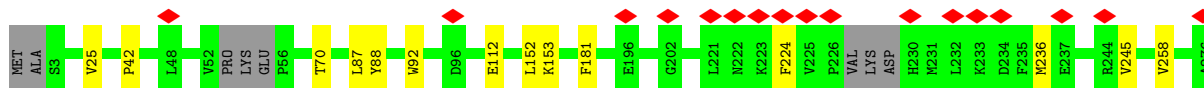


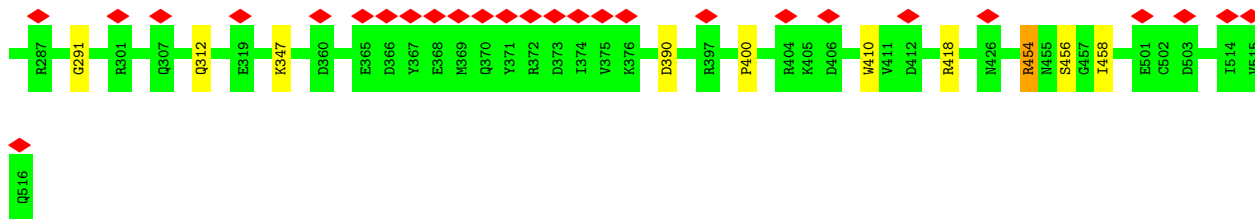


• Molecule 24: CFAP210

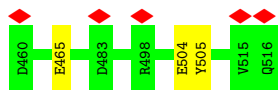
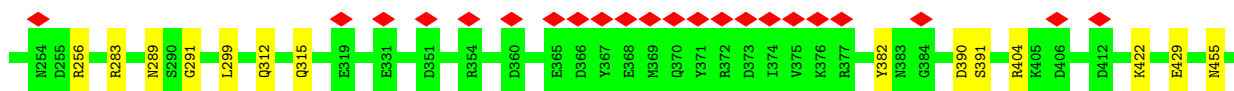
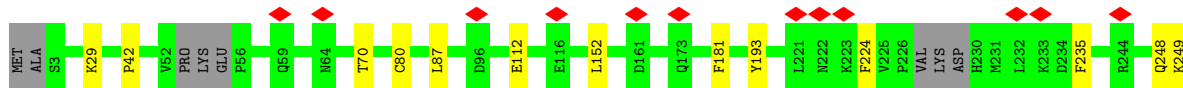


• Molecule 25: RIB72B

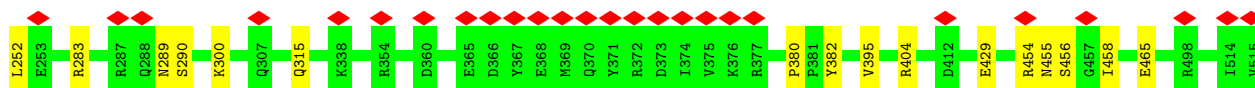




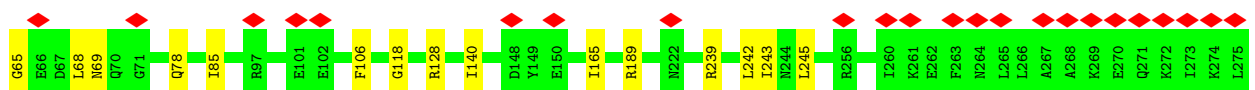
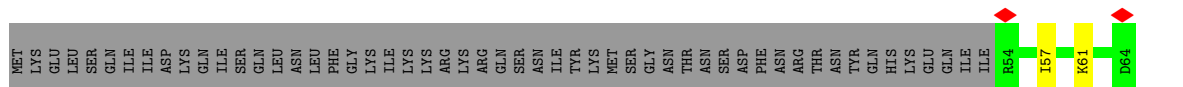
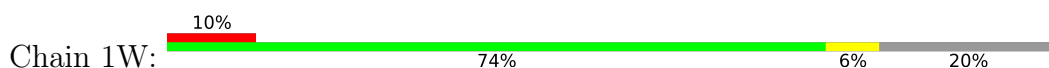
• Molecule 25: RIB72B

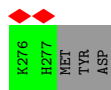


• Molecule 25: RIB72B

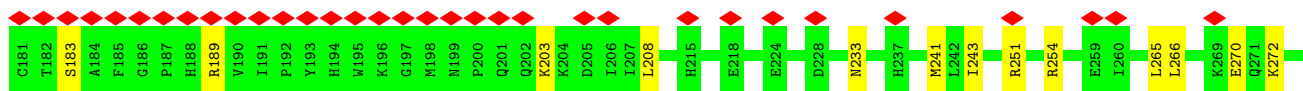
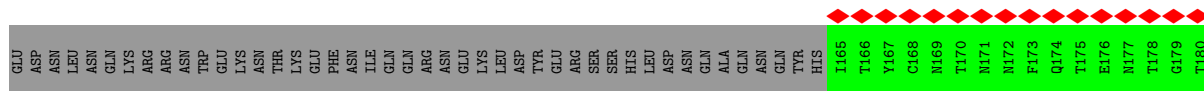
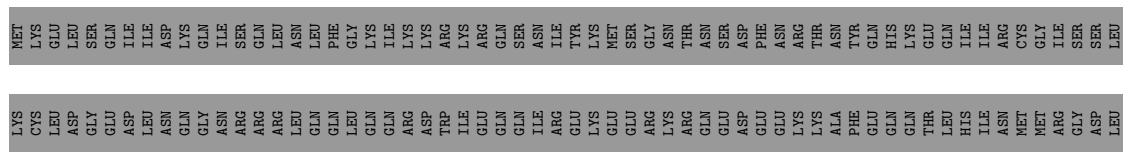
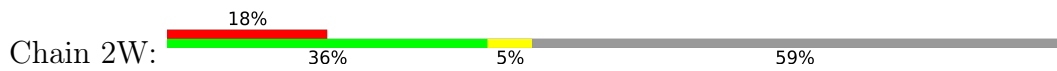


• Molecule 26: Protofilament ribbon protein

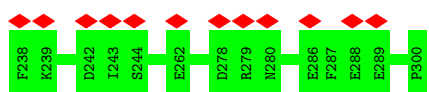
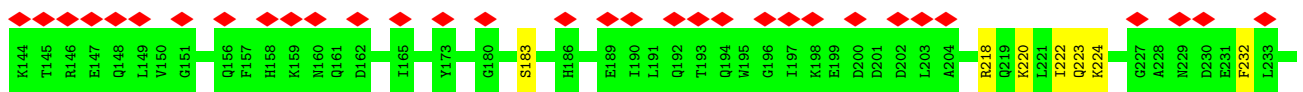
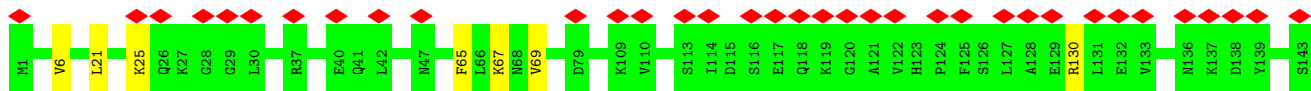




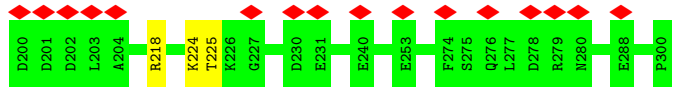
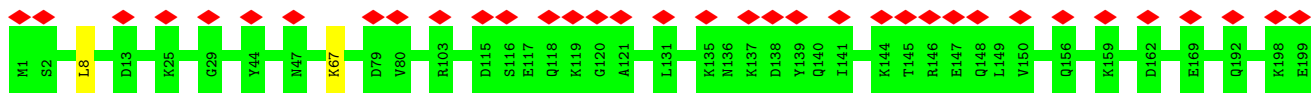
• Molecule 26: Protofilament ribbon protein



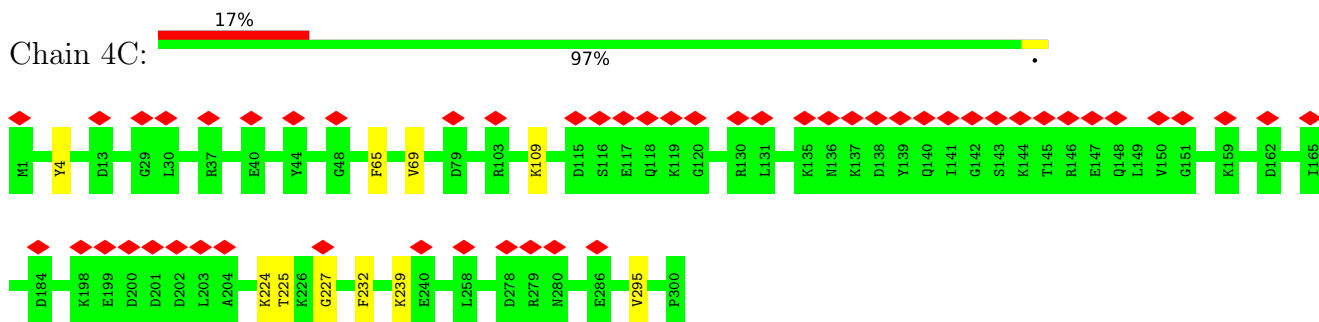
• Molecule 27: RIB35



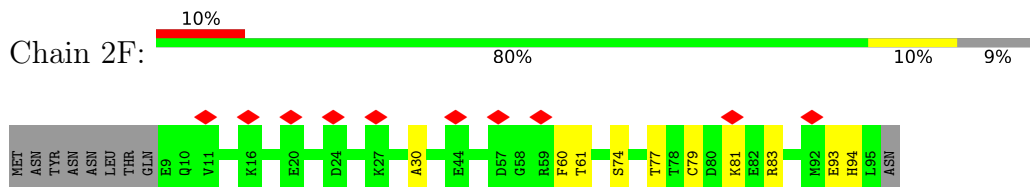
• Molecule 27: RIB35



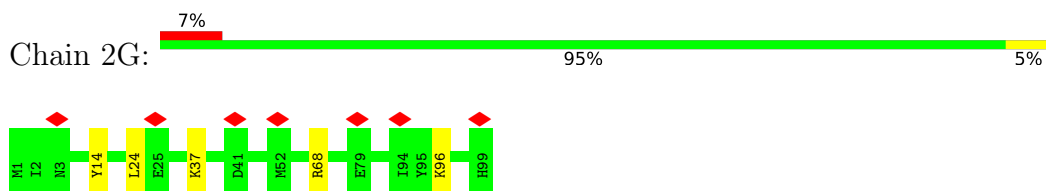
• Molecule 27: RIB35



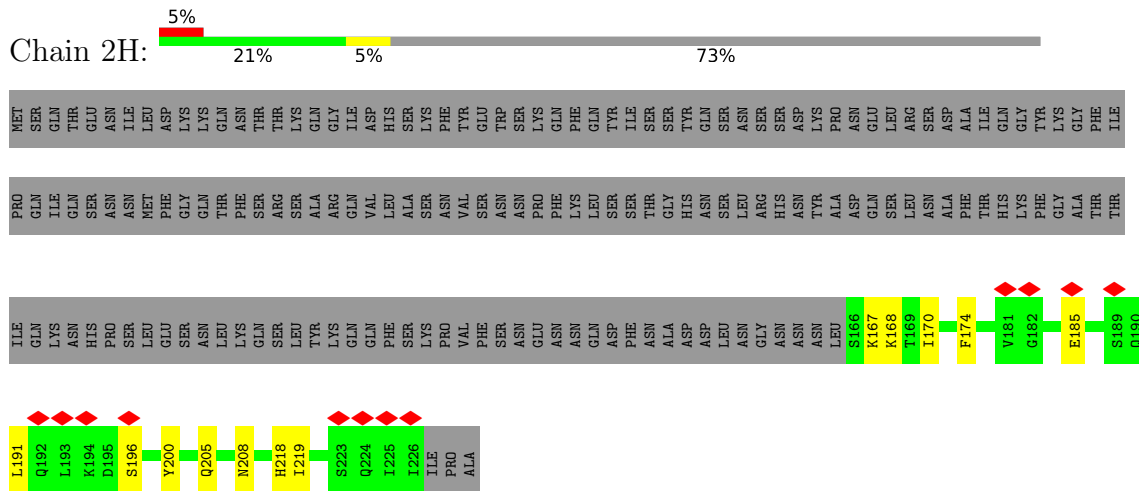
• Molecule 28: CFAP182B



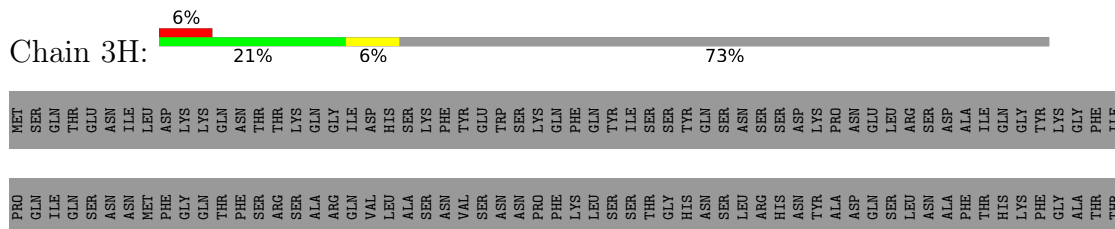
• Molecule 29: Flagellar FliJ protein



• Molecule 30: RIB27B



• Molecule 30: RIB27B







GLN	ASN	LYS	GLU	LEU	ALA	LYS	THR	ASN	PHE	ALA	GLY	LYS	SER	SER	PRO	PRO	GLY	VAL	PRO	ALA	TYR	ARG	ASP	VAL	ARG	ASP	VAL	ARG	ASP	THR	THR	ASN	PHE	THR	TYR	GLN	LYS	ALA	ALA	PRO	GLY	LYS	TRP	LYS	TRP	LYS	ILE	GLY	GLY	GLN	GLY	VAL	ASN	VAL	ARG	ASN	THR	THR	LEU	THR	THR	THR	GLY	GLY	PRO	ASN	LYS	HIS	ASP	PHE	TYR	LEU	ARG	ARG	LYS	PHE	ASP	VAL
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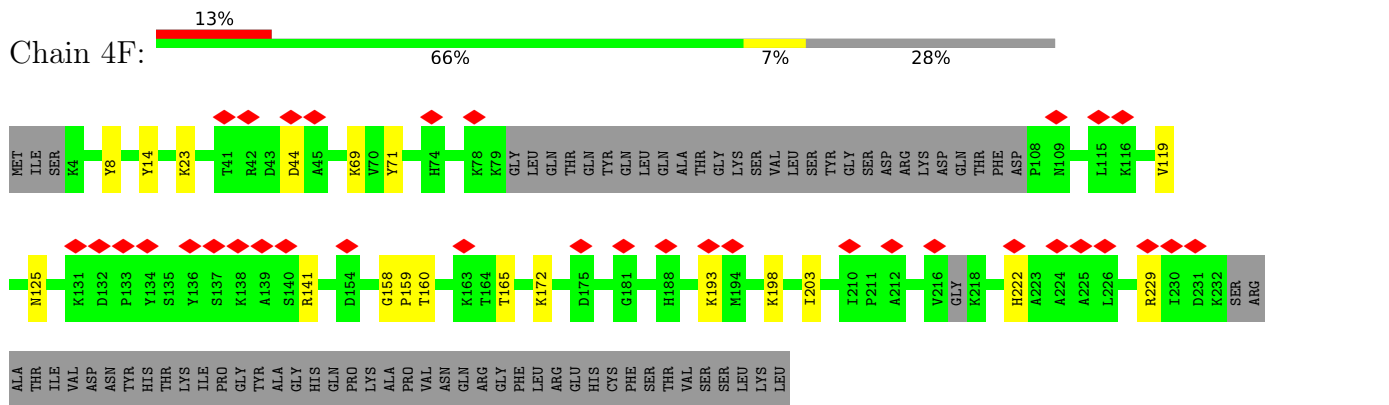
ARG	GLU	ILE	GLN	GLY	PHE	SER	PRO	LEU	VAL	ALA	ASN	ASN	SER	SER	THR	P196	Q197	G202	S203	Y204	I205	R216	N217	K220	N225	R228	F229	SER	GLY	PHE	GLN	ALA	ALA	ASP	LEU	SER	ASN	ALA	HIS	Y241	T242	K243	Q250	Y251	D252	S253	R254	K255	Q256	T257	M260	F263
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T267	R272	G273	R285	I286	R287	K292	F293
------	------	------	------	------	------	------	------

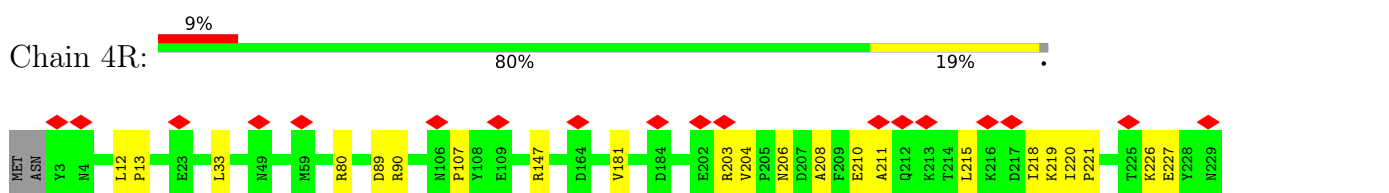
• Molecule 32: RIB26

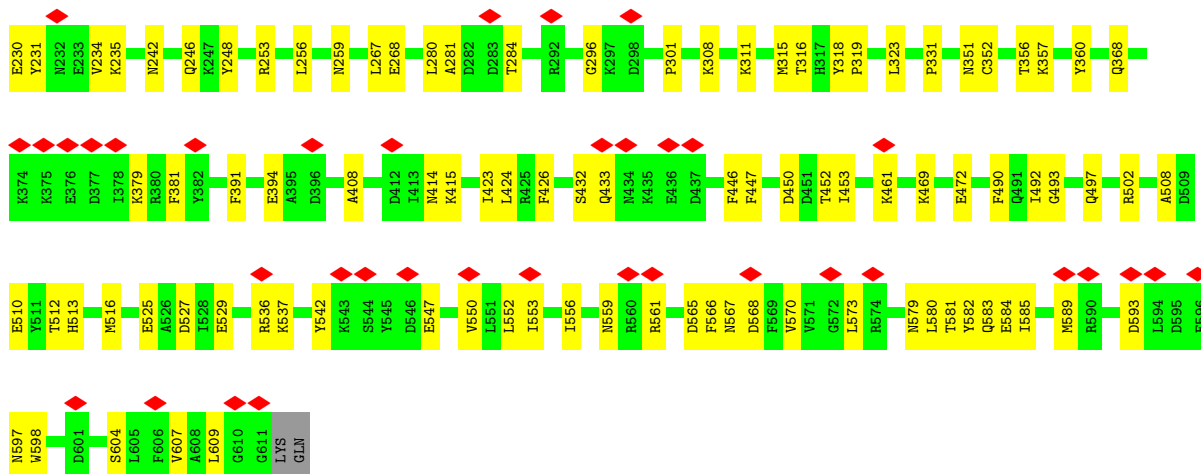


• Molecule 33: CFAP129

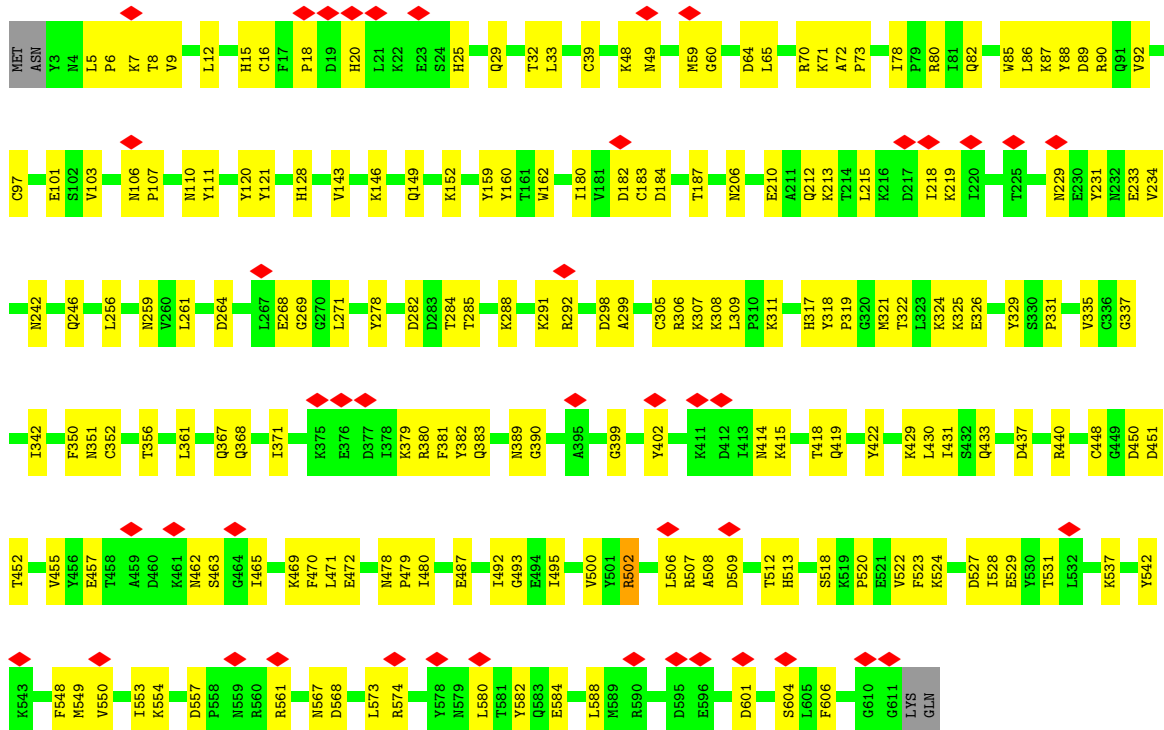


• Molecule 34: Flagellar microtubule protofilament ribbon protein

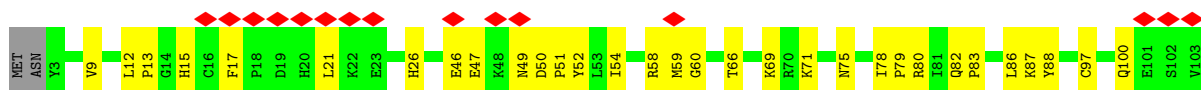
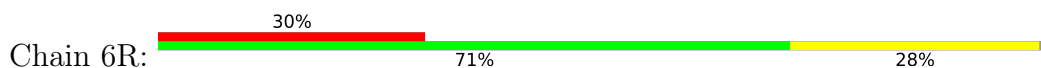


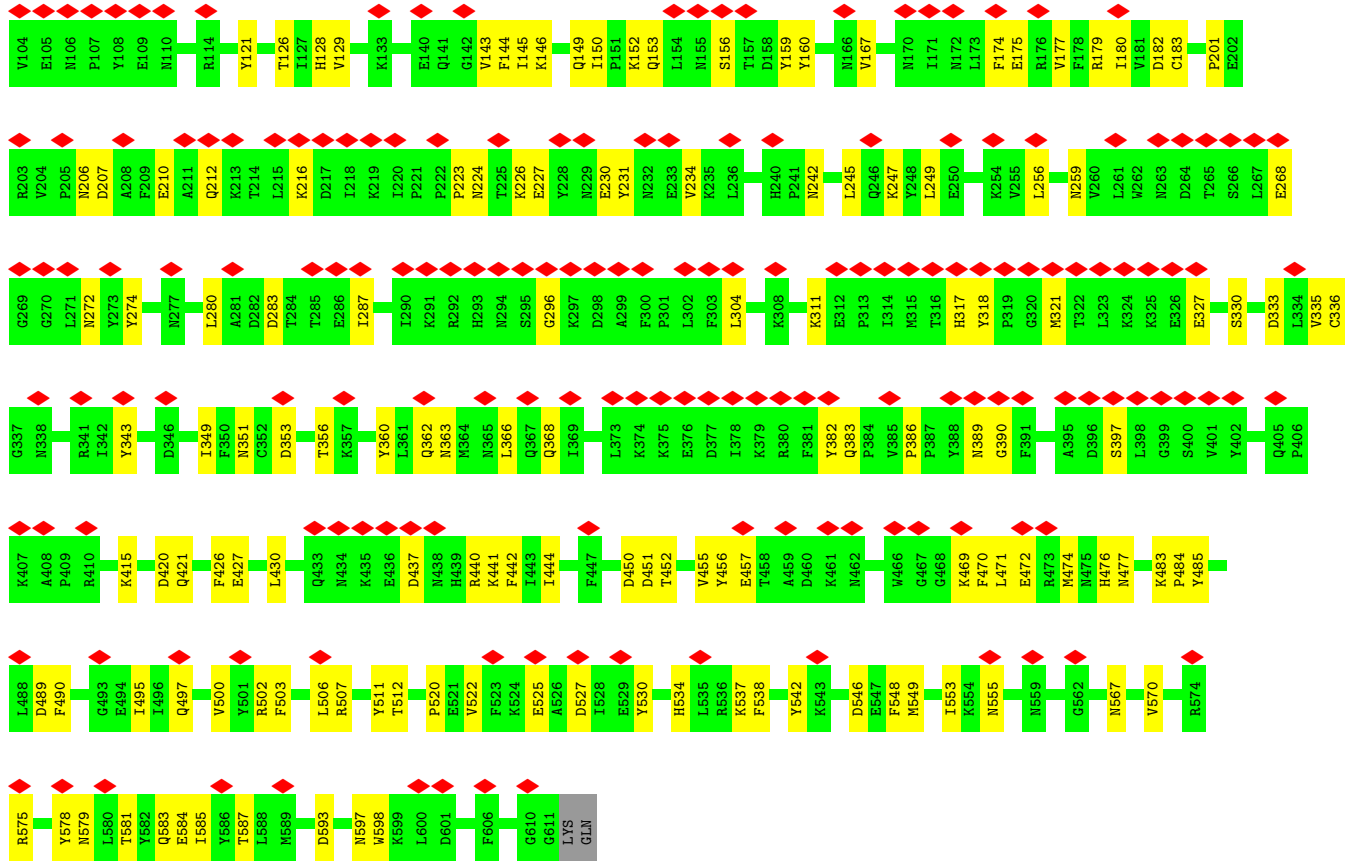


• Molecule 34: Flagellar microtubule protofilament ribbon protein

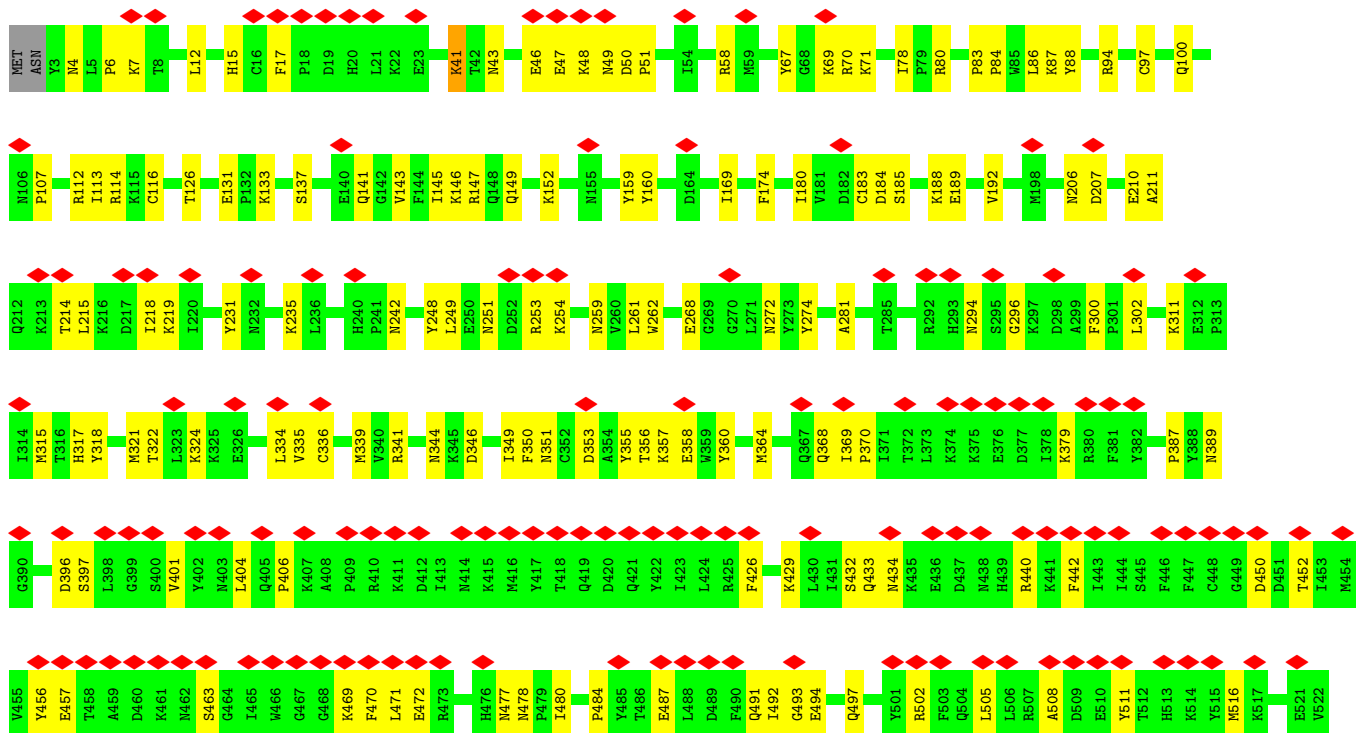


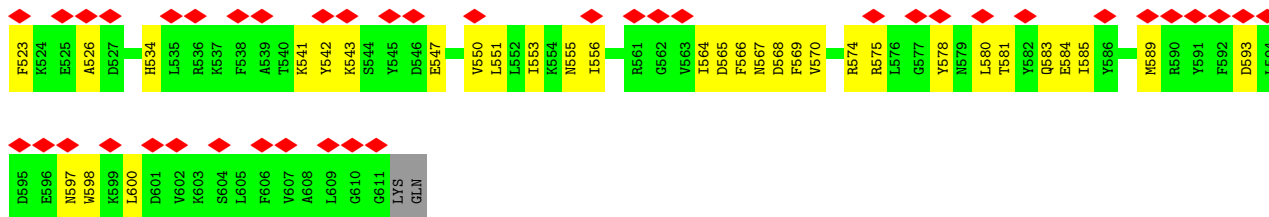
• Molecule 34: Flagellar microtubule protofilament ribbon protein



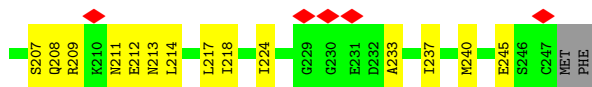
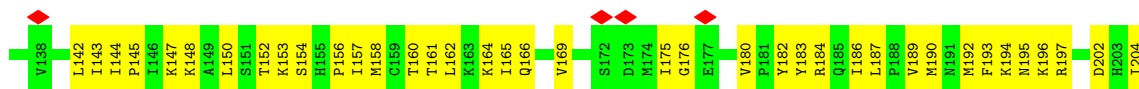
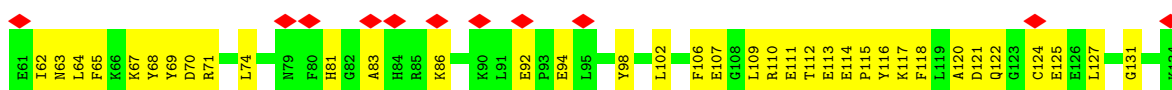


• Molecule 34: Flagellar microtubule protofilament ribbon protein

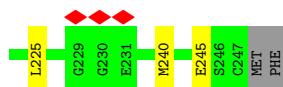
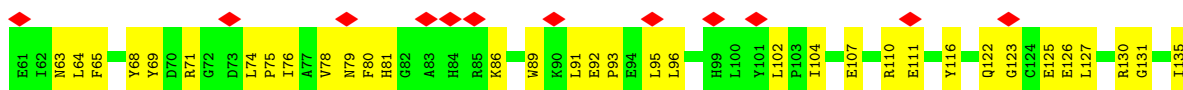
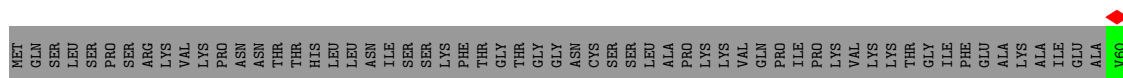




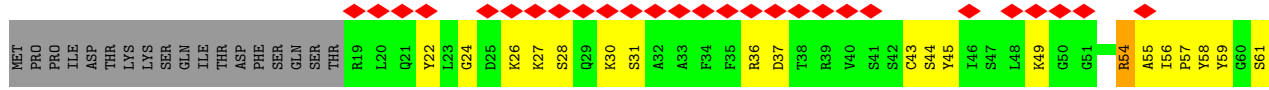
• Molecule 35: Parkin co-regulated protein PACRGB

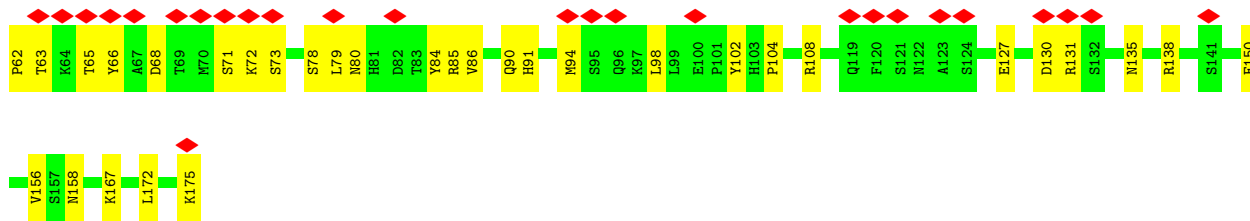


• Molecule 35: Parkin co-regulated protein PACRGB

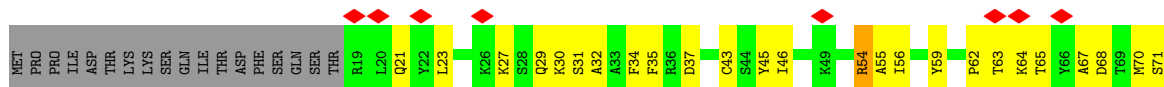


• Molecule 36: OJ2

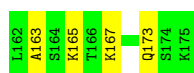
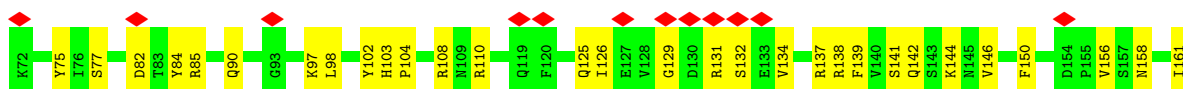
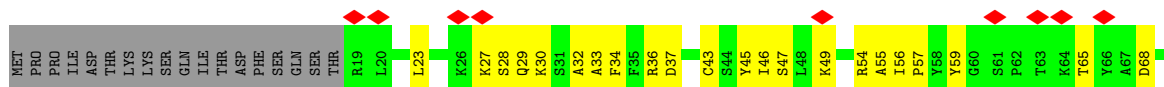




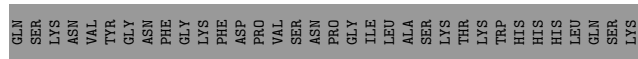
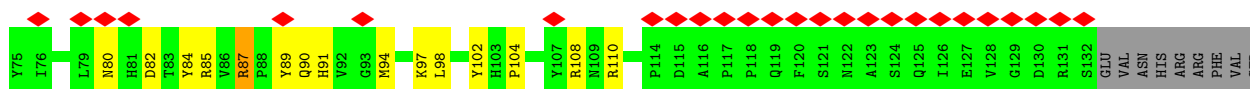
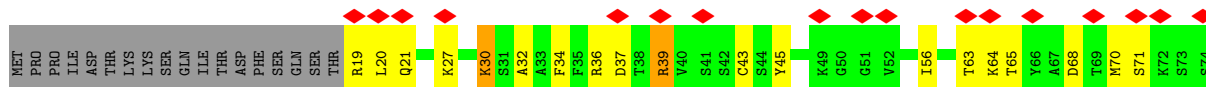
• Molecule 36: OJ2



• Molecule 36: OJ2

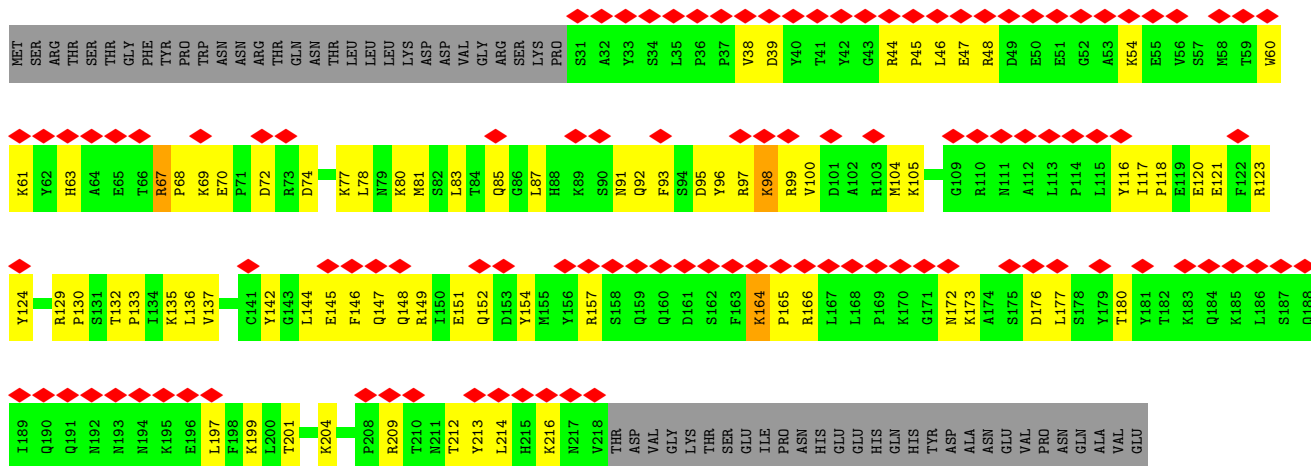


• Molecule 36: OJ2

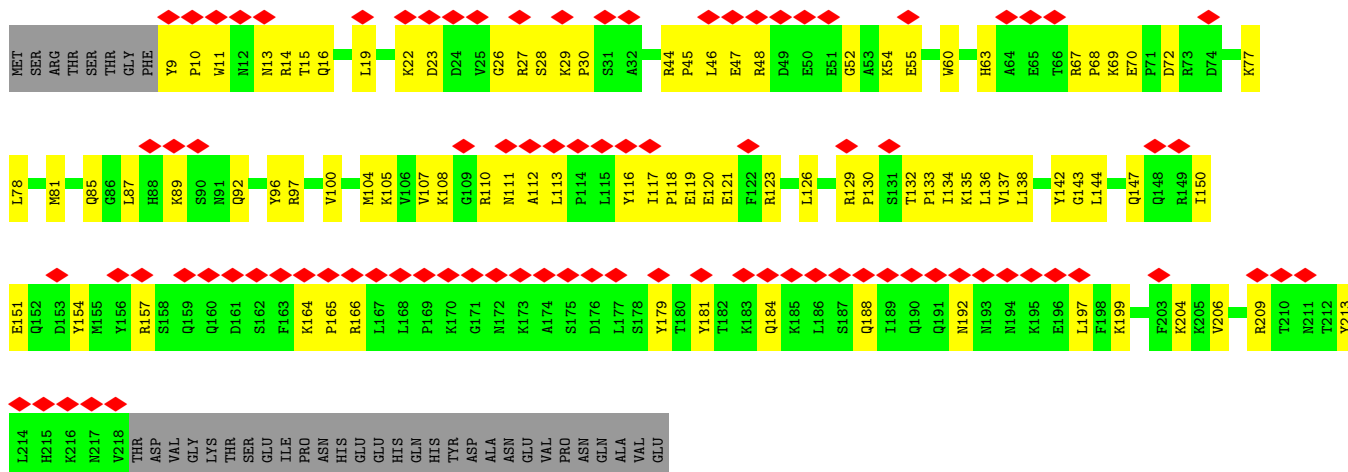


• Molecule 37: CFAP77A

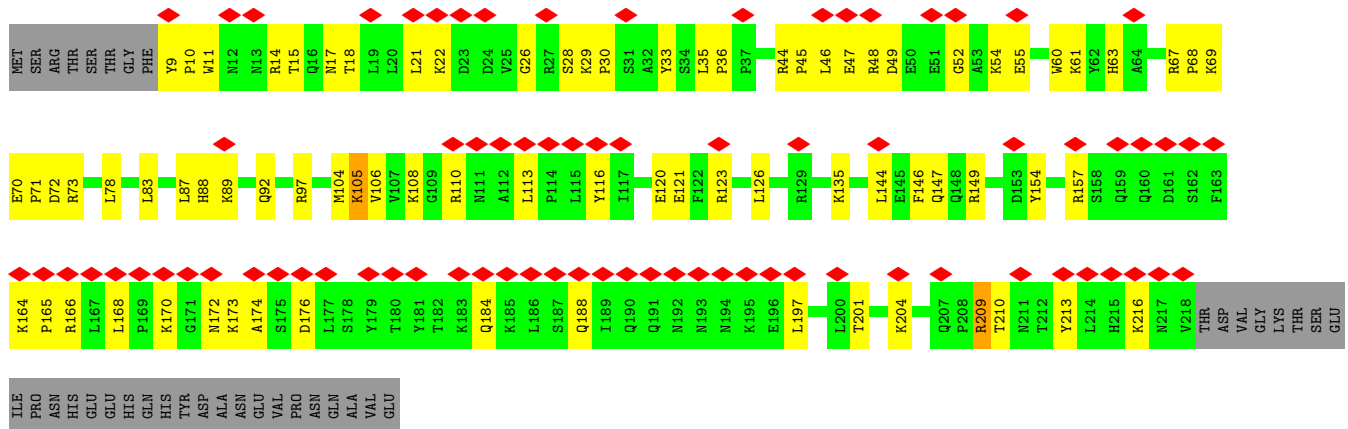




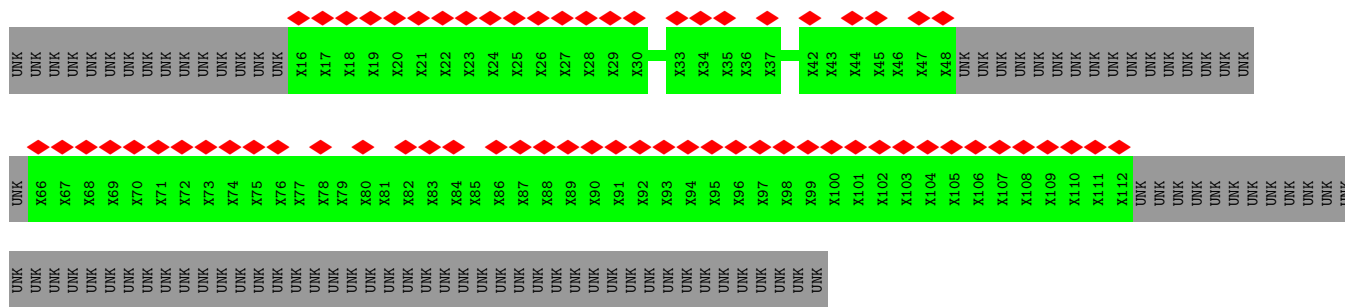
• Molecule 37: CFAP77A



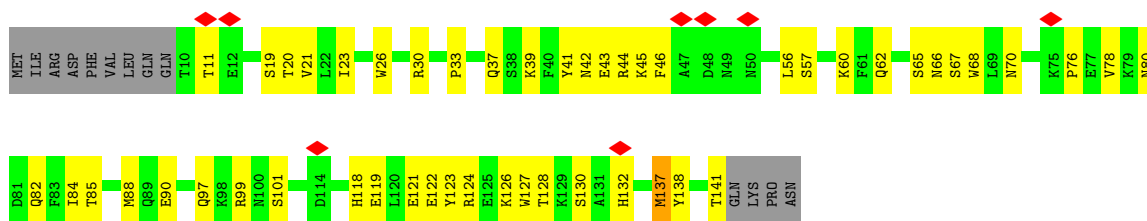
• Molecule 37: CFAP77A



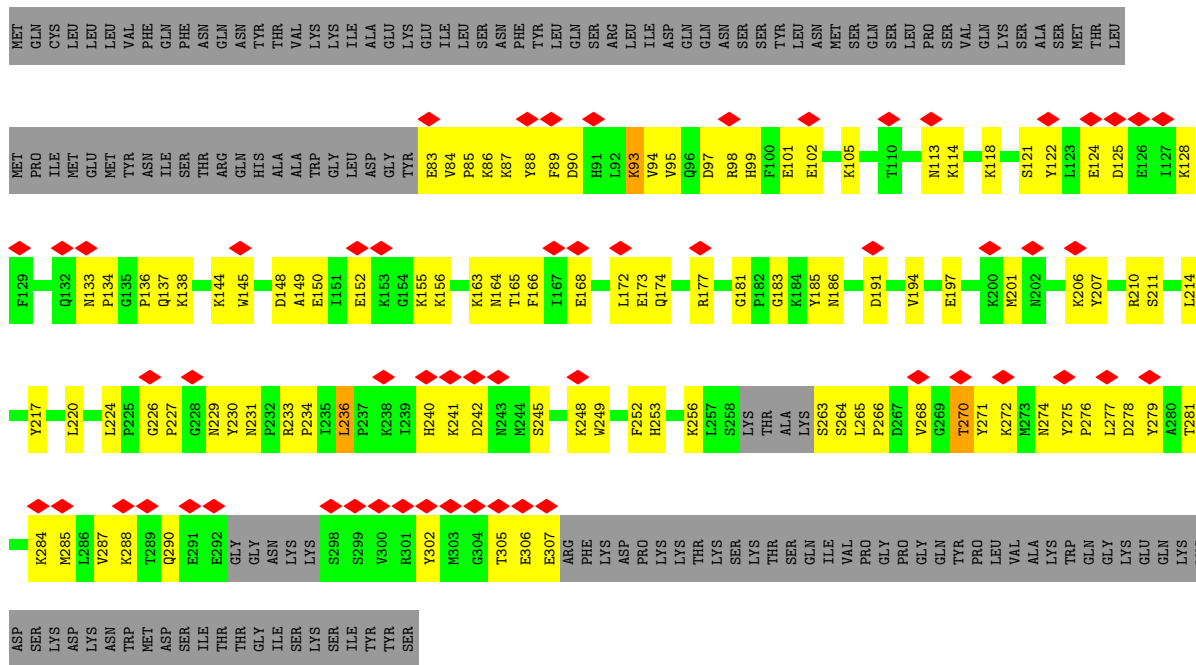
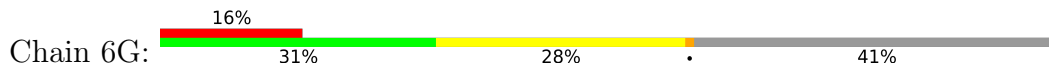




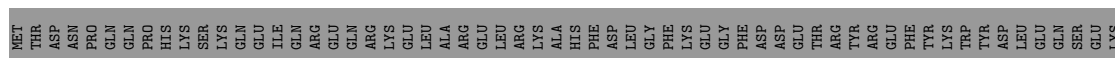
• Molecule 39: SB1



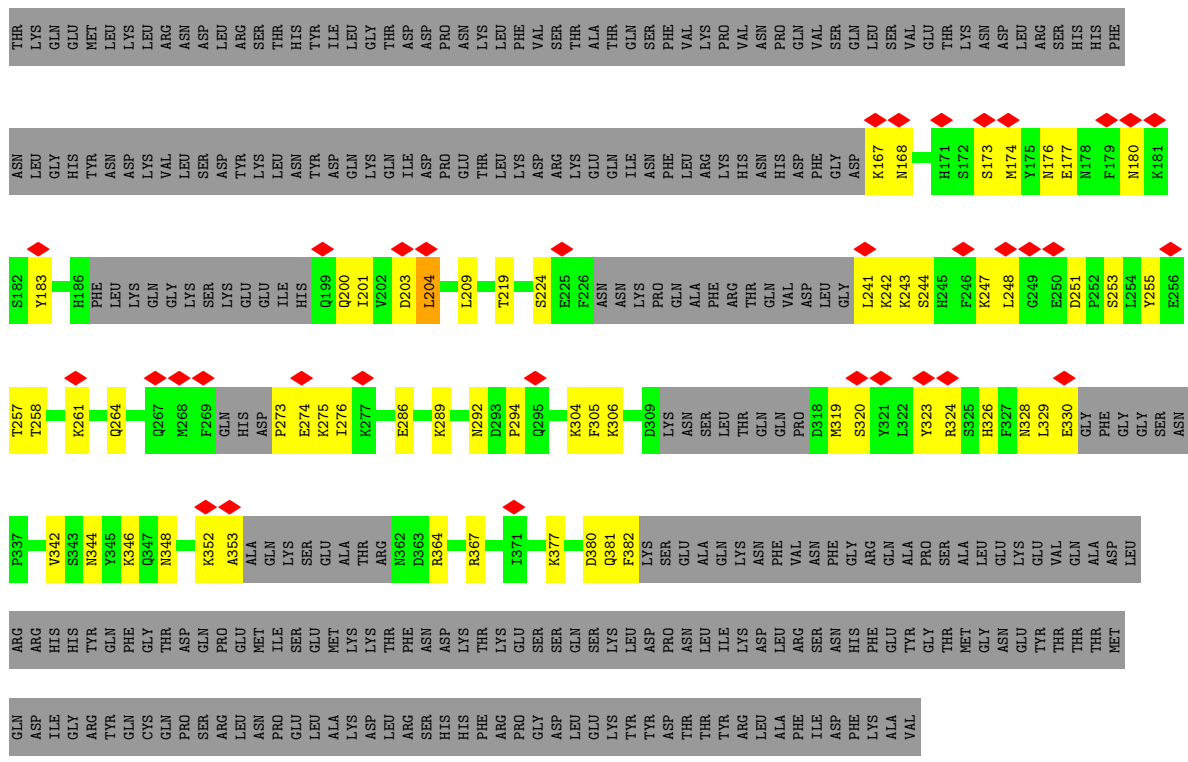
• Molecule 40: STPG1A



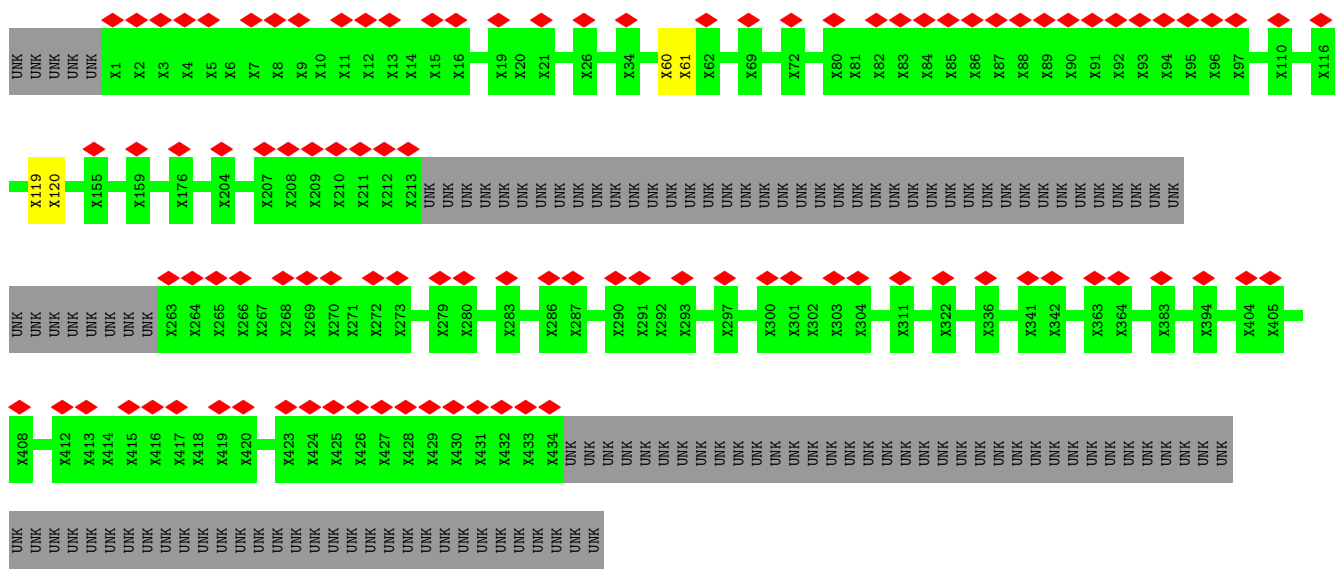
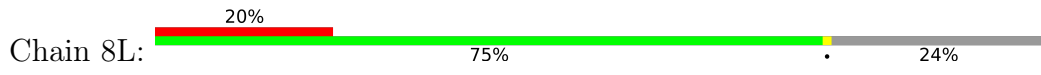
• Molecule 41: Nebulin



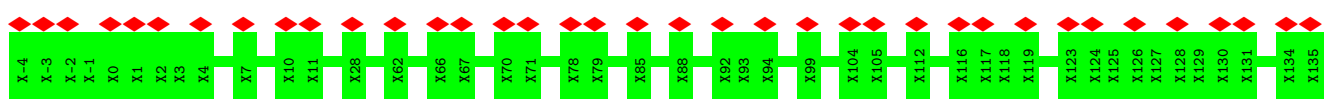
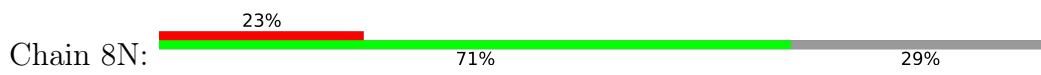


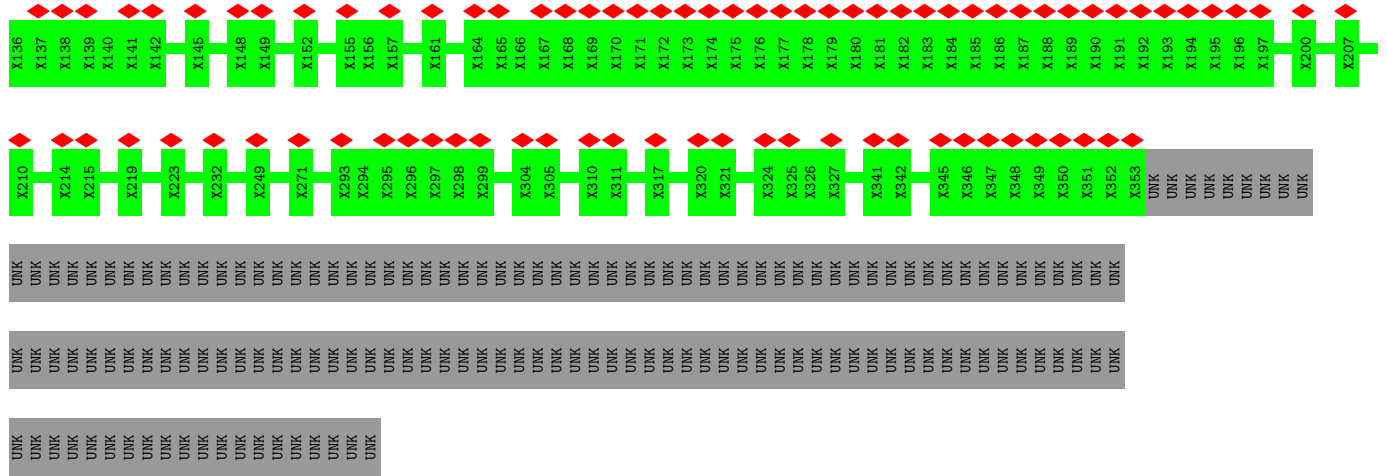


• Molecule 42: B5B6\_fMIP

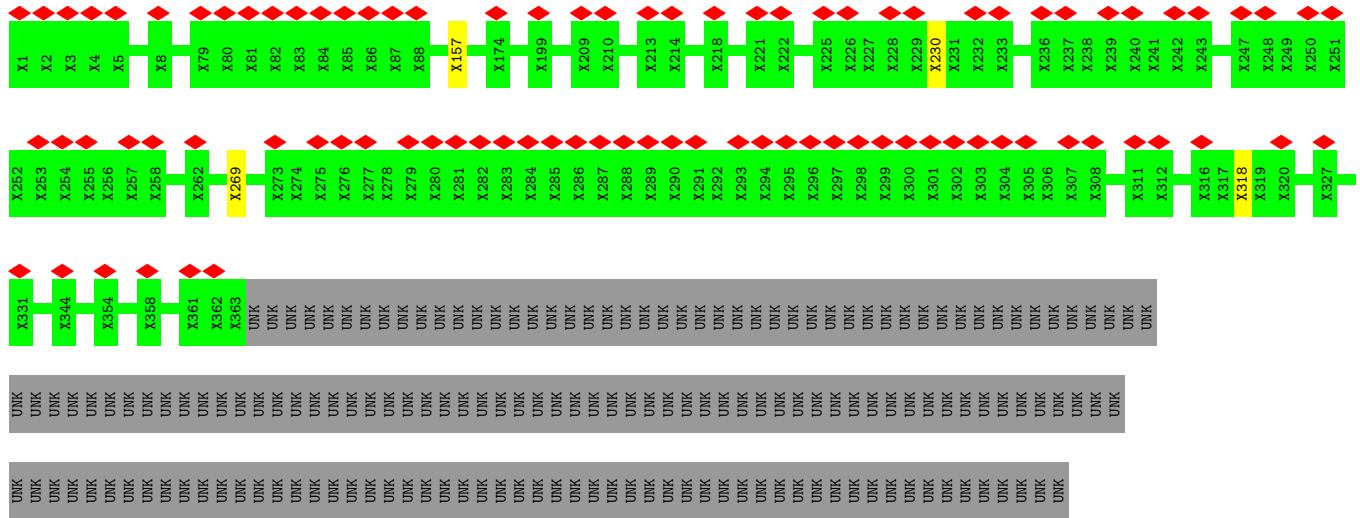


• Molecule 42: B5B6\_fMIP

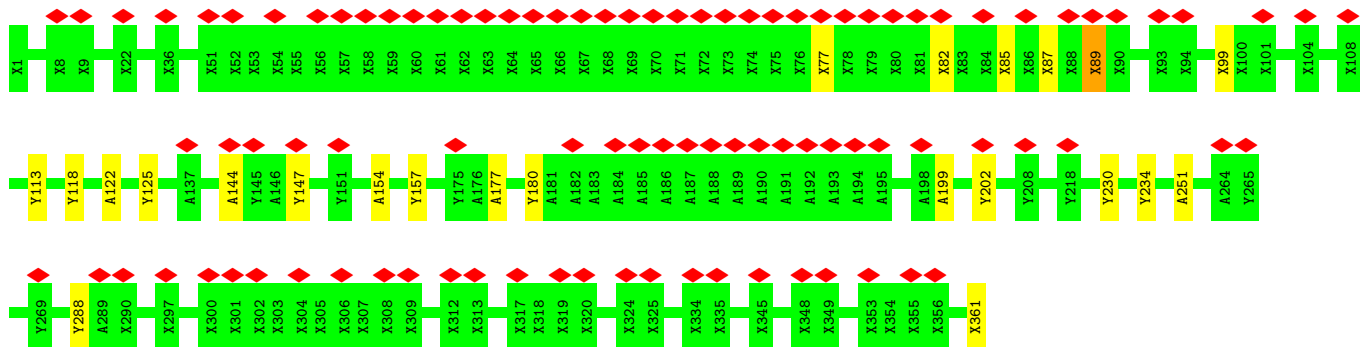




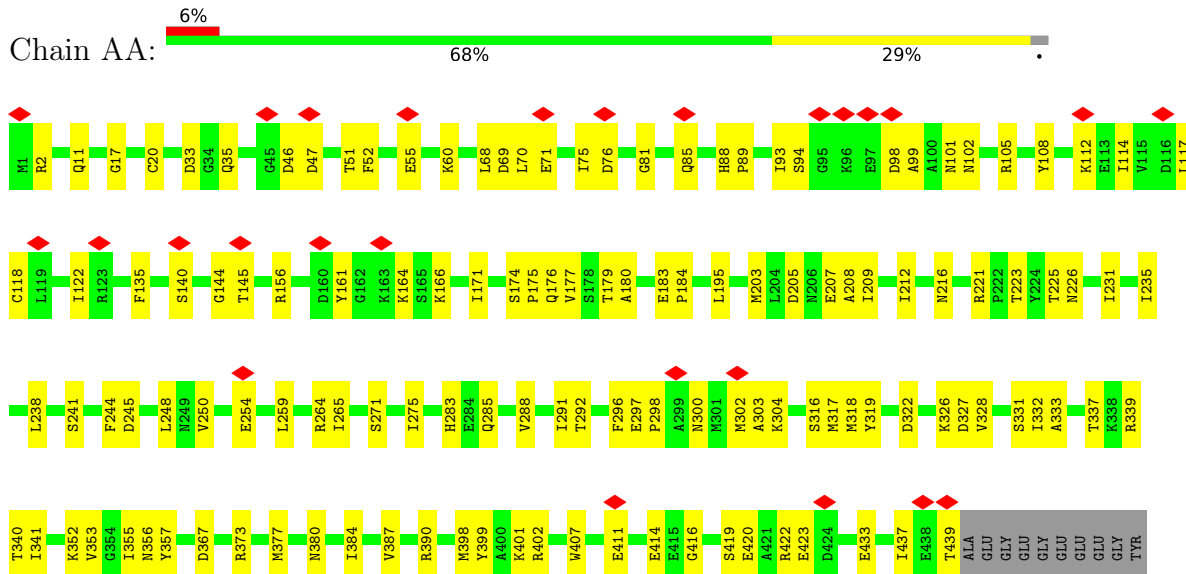
• Molecule 43: CFAP112A



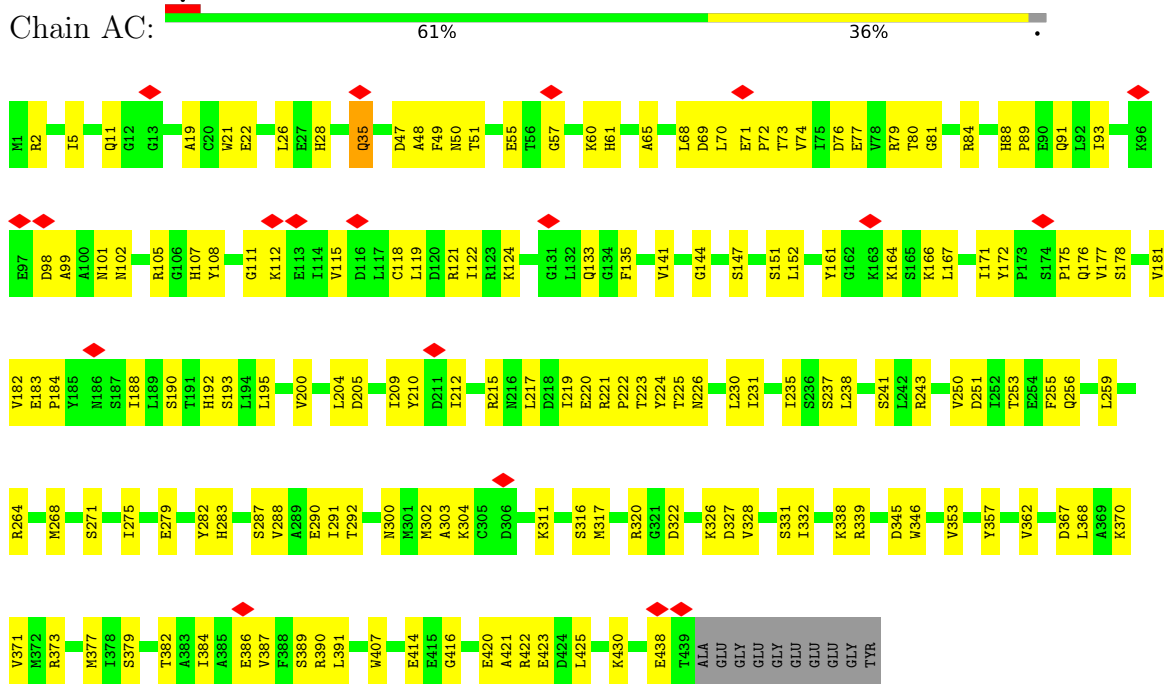
• Molecule 44: B2B3\_fmIP



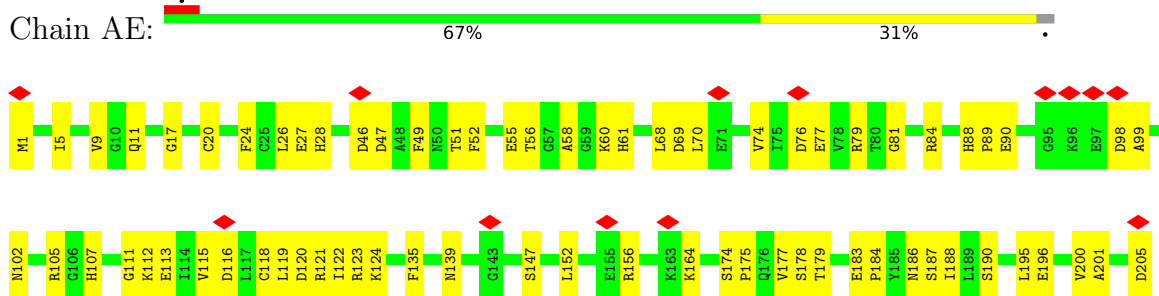
• Molecule 45: Tubulin alpha chain

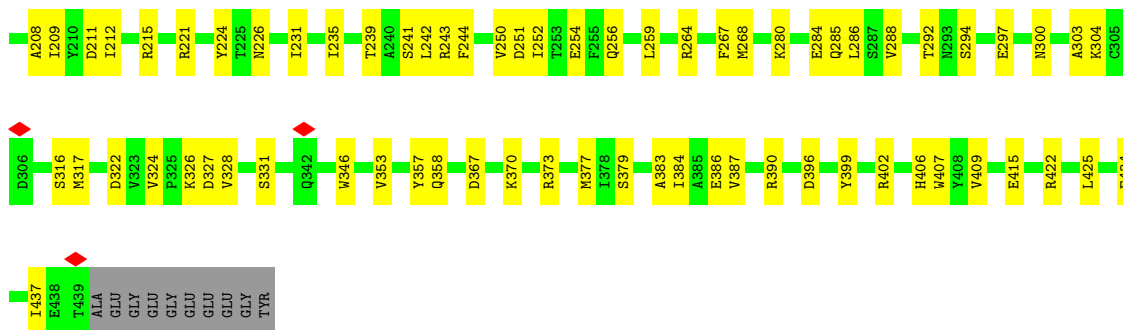


• Molecule 45: Tubulin alpha chain

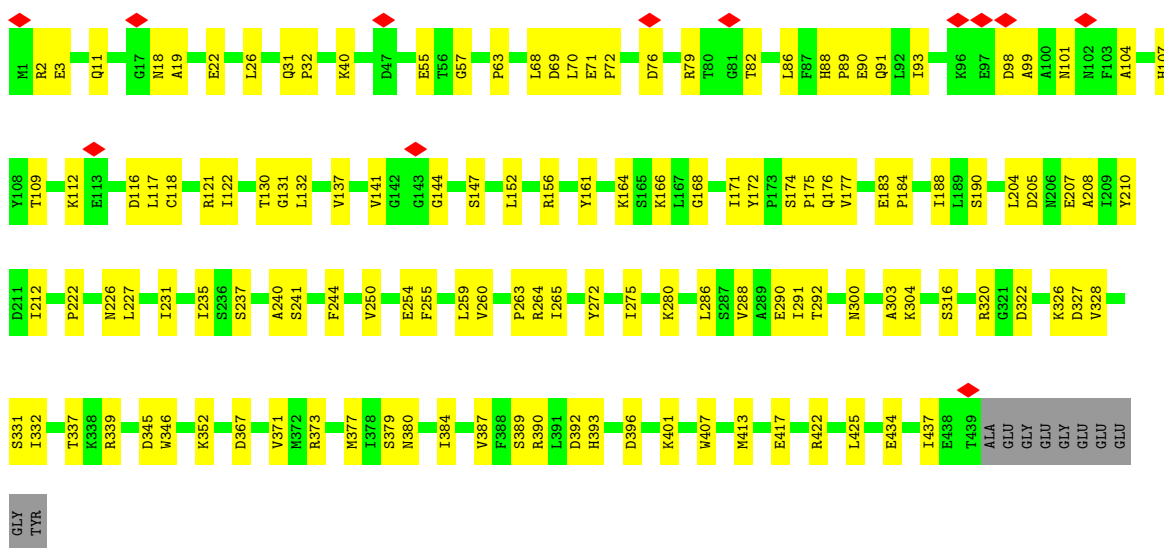


• Molecule 45: Tubulin alpha chain

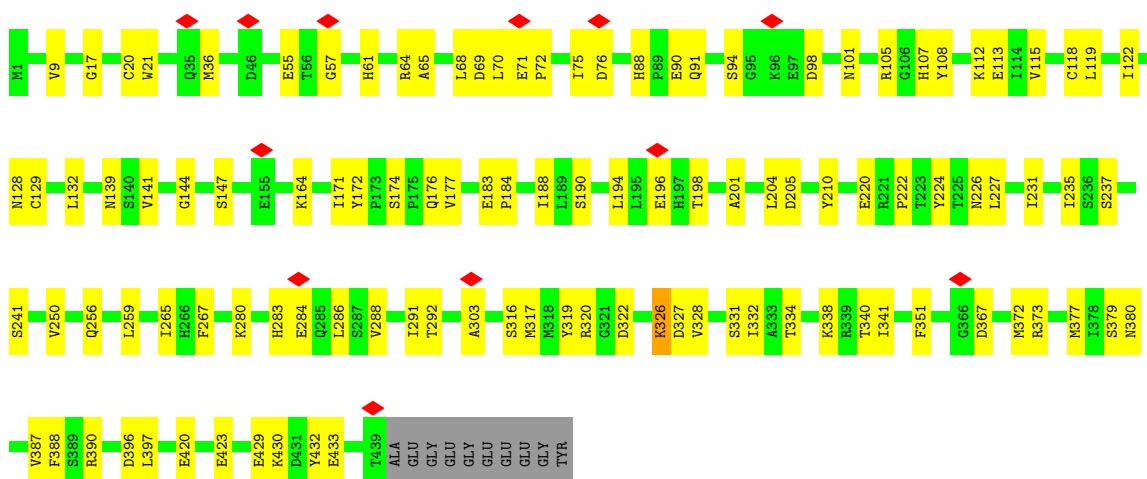




• Molecule 45: Tubulin alpha chain

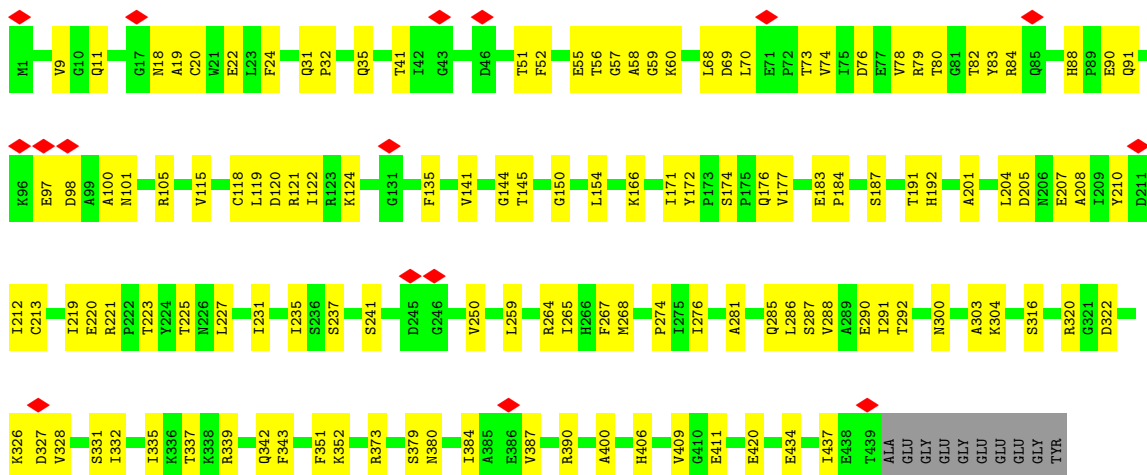


• Molecule 45: Tubulin alpha chain



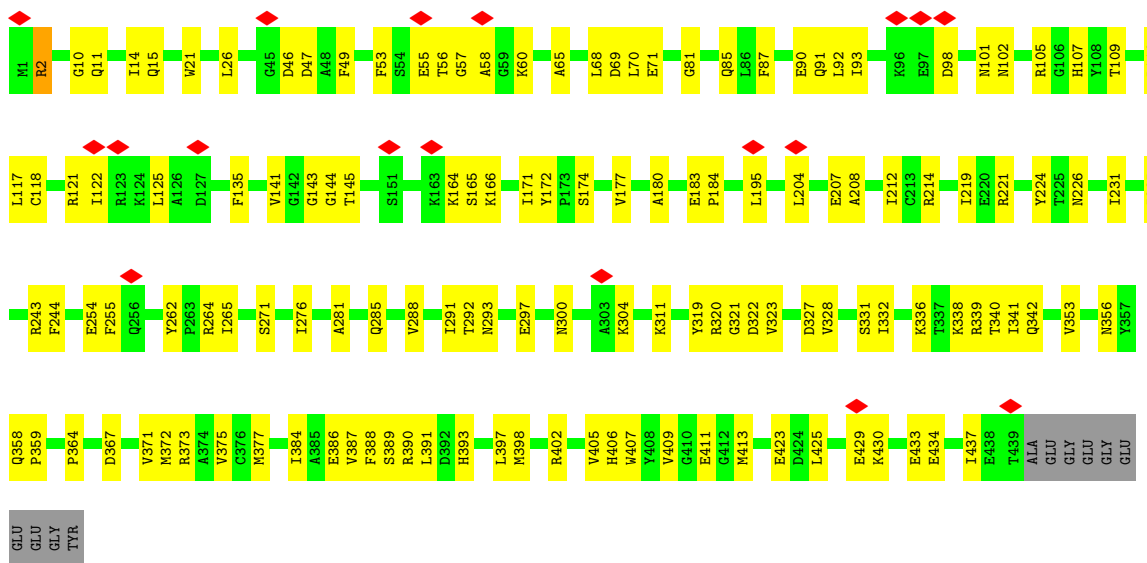
• Molecule 45: Tubulin alpha chain

Chain AK:



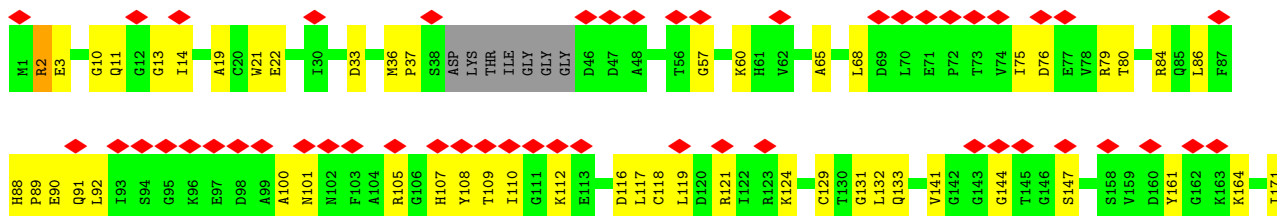
• Molecule 45: Tubulin alpha chain

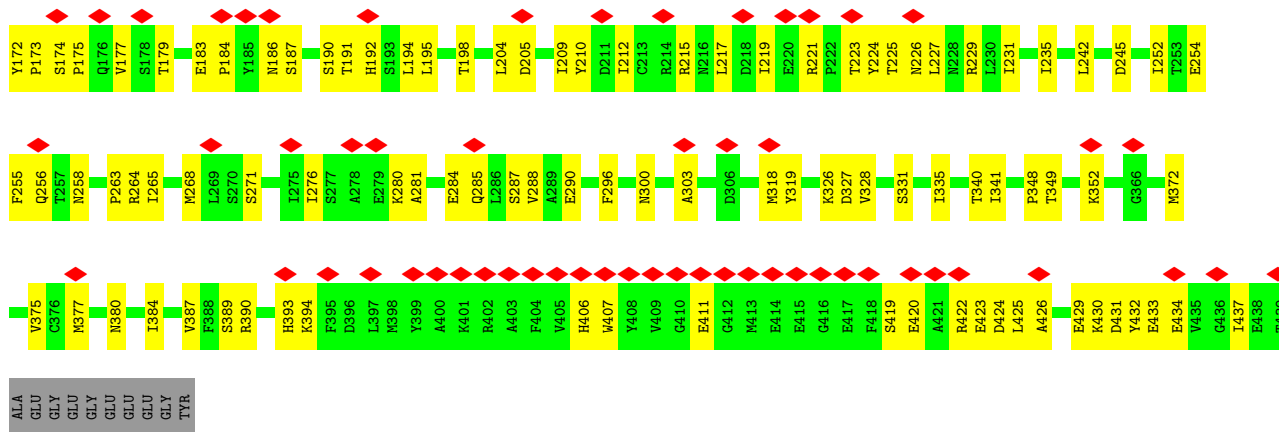
Chain AM:



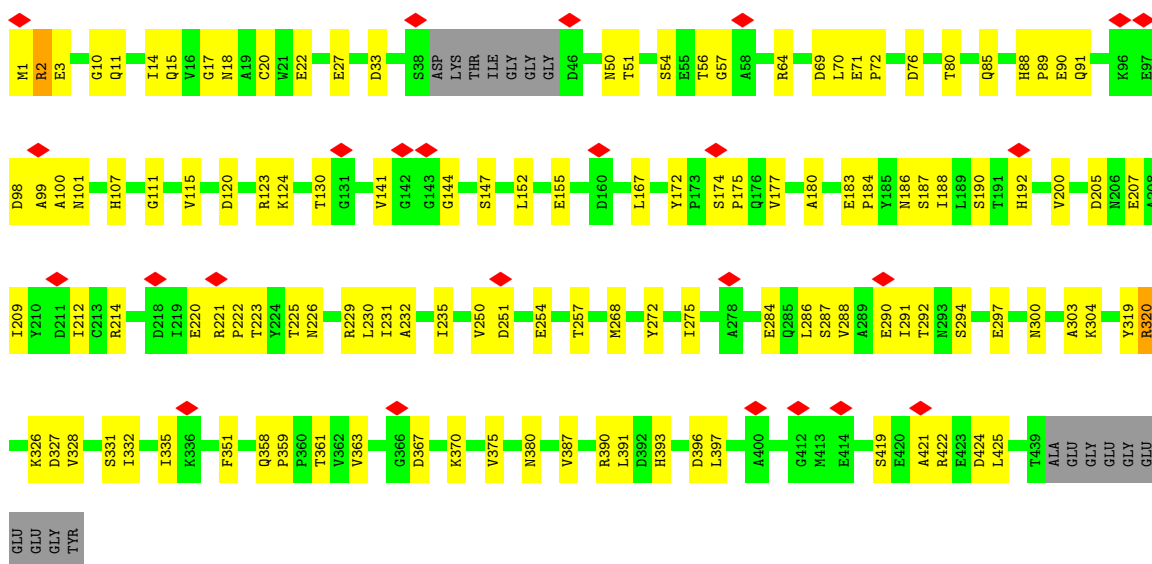
• Molecule 45: Tubulin alpha chain

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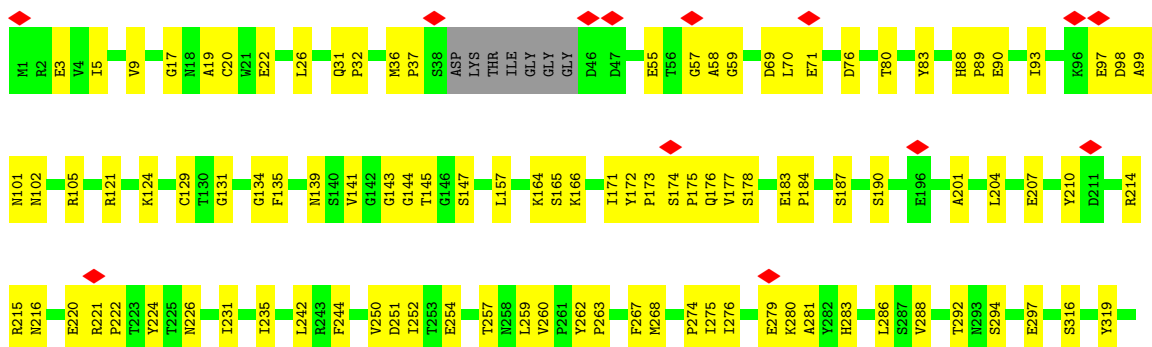


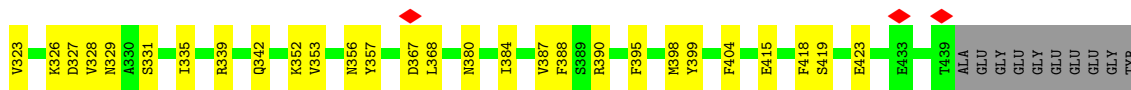


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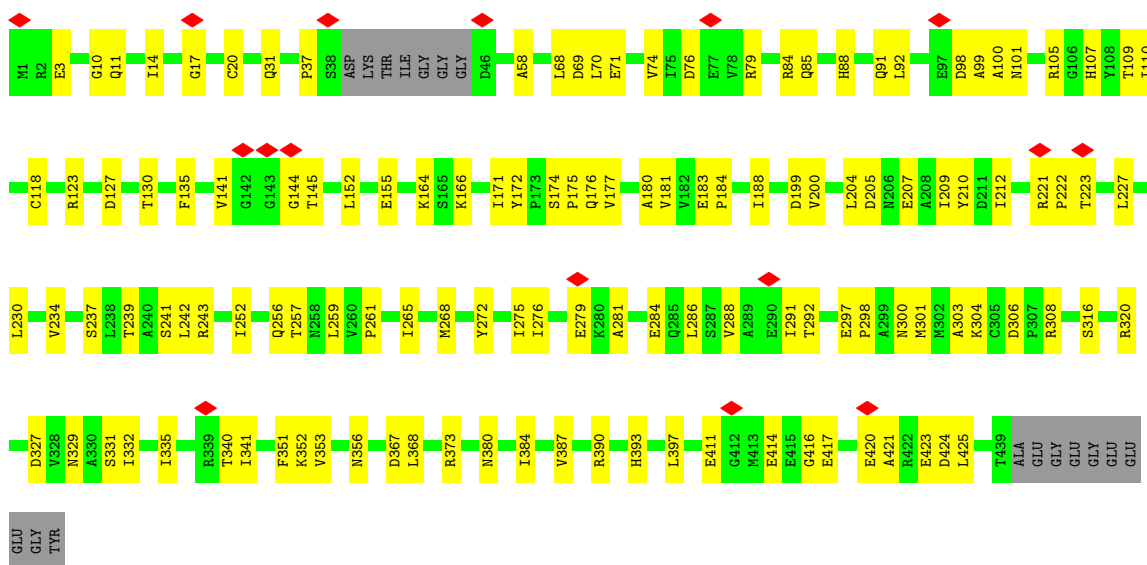


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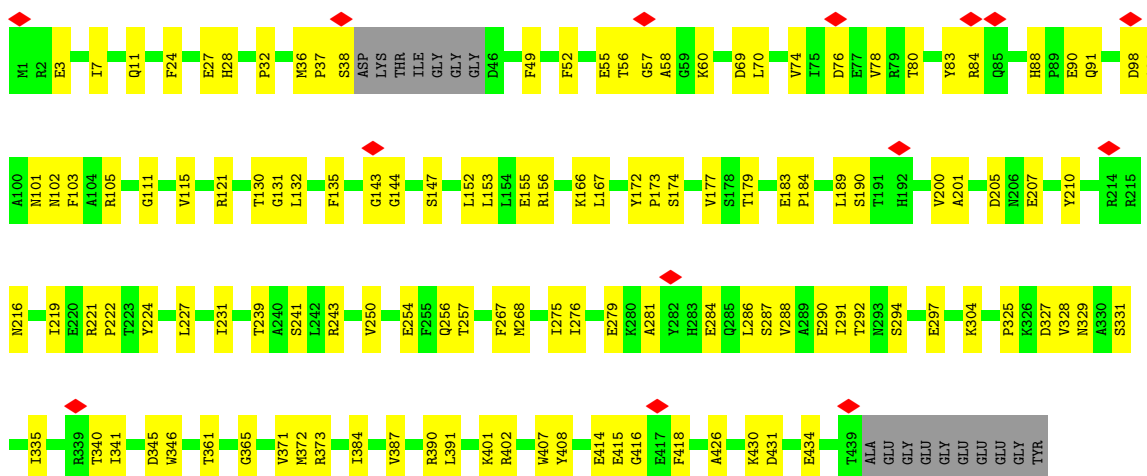




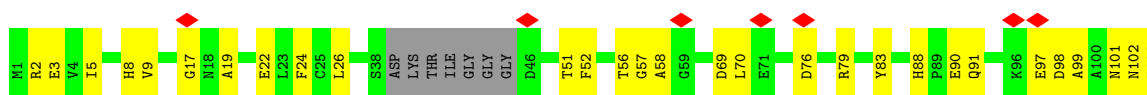
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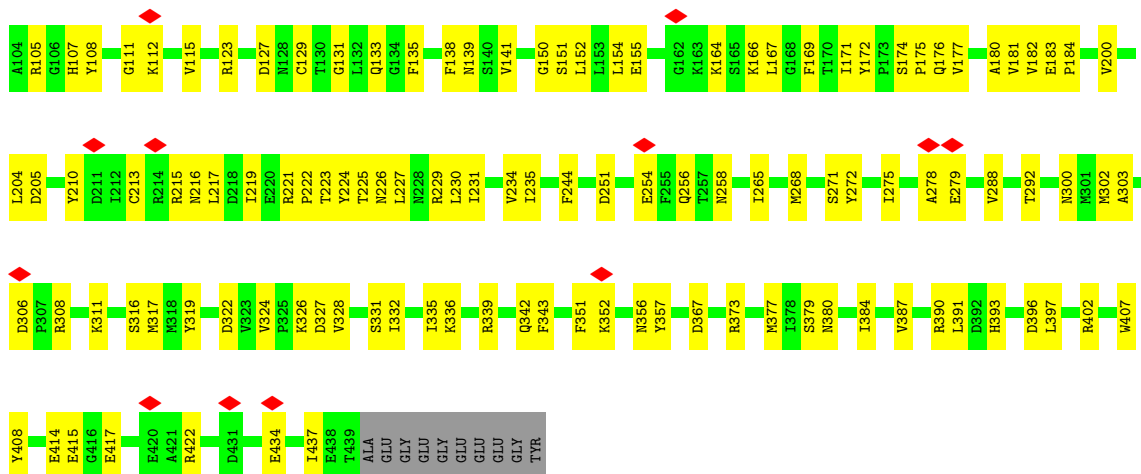


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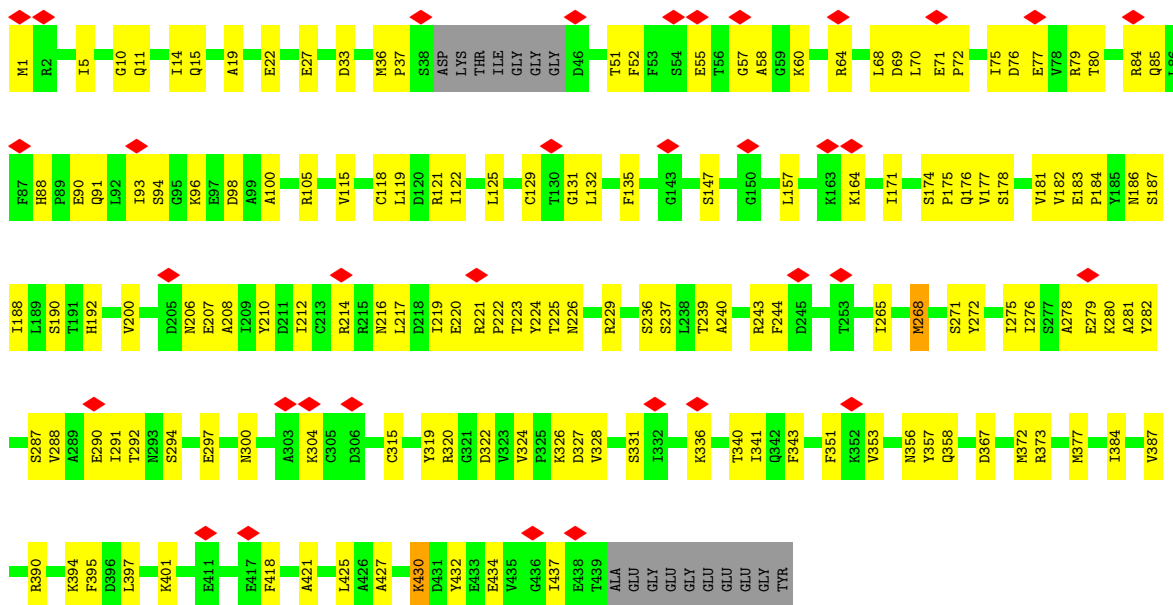


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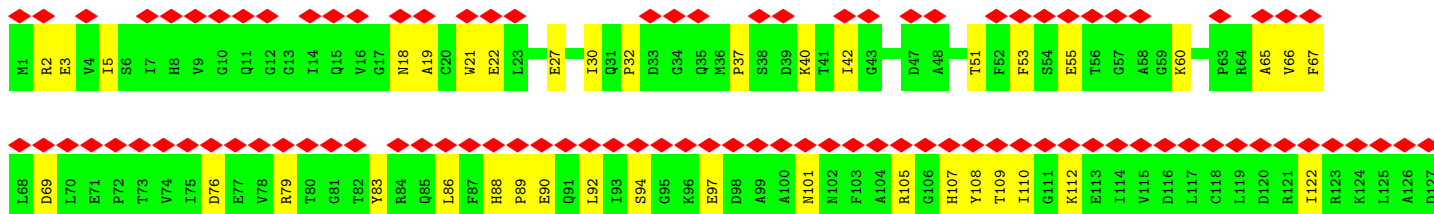




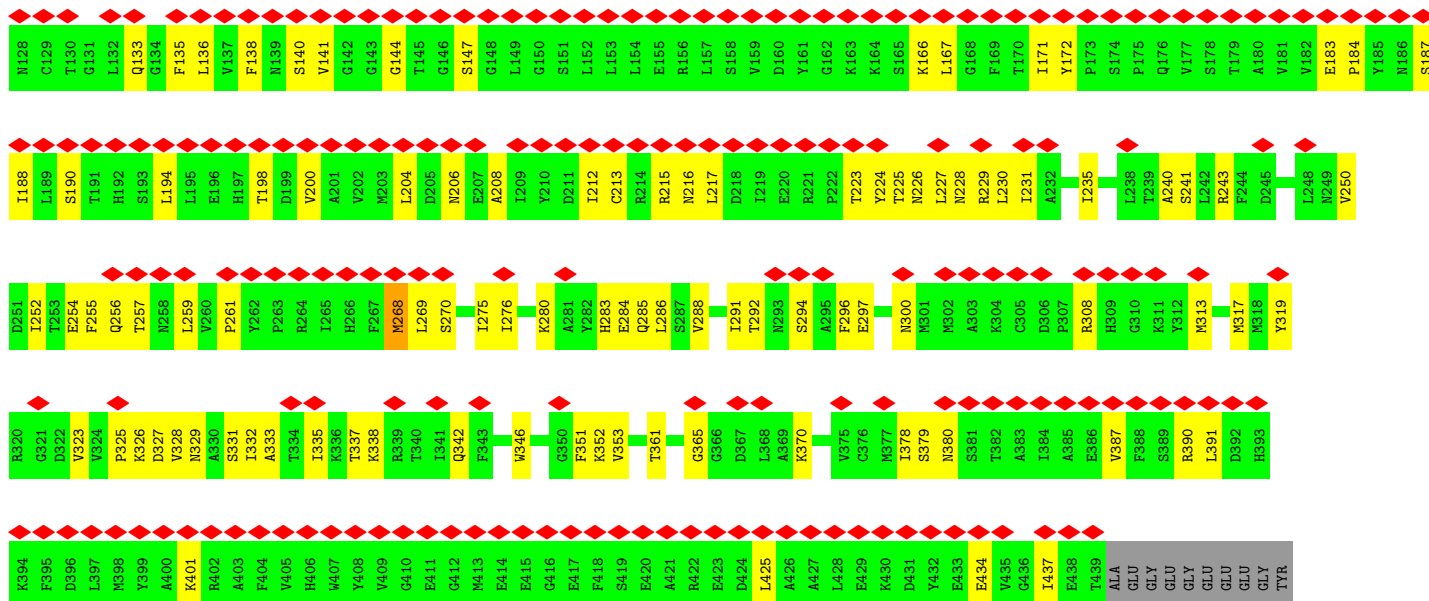
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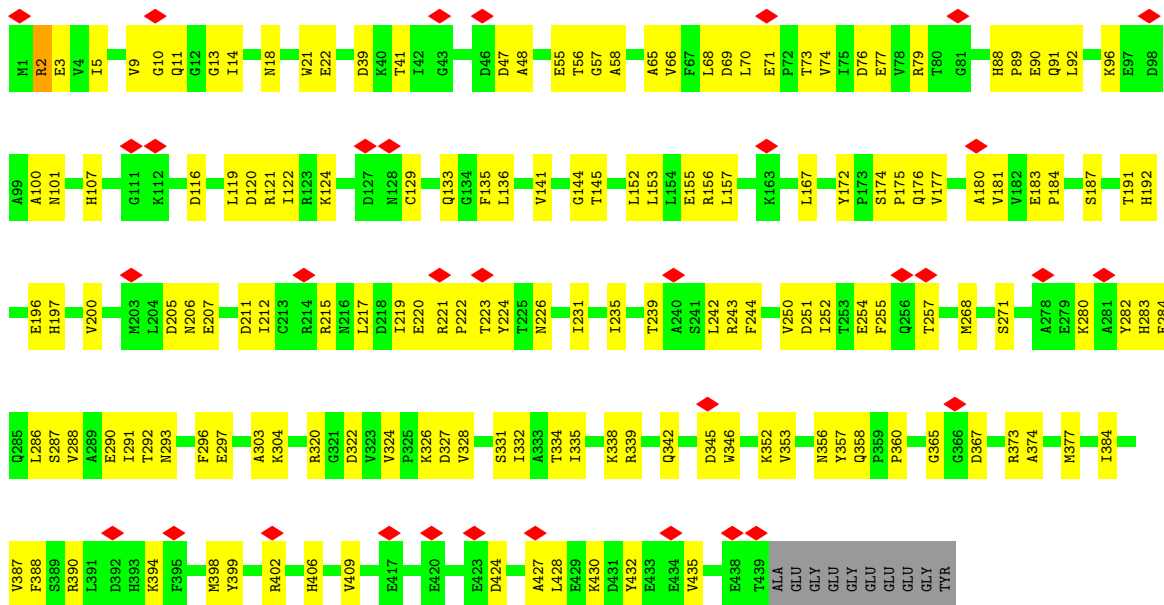
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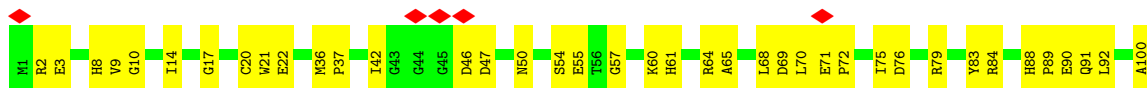


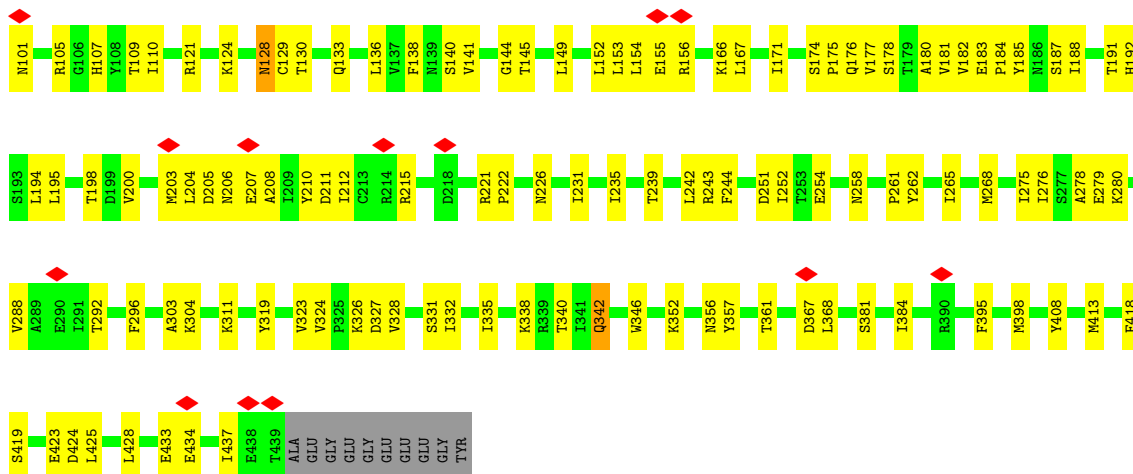


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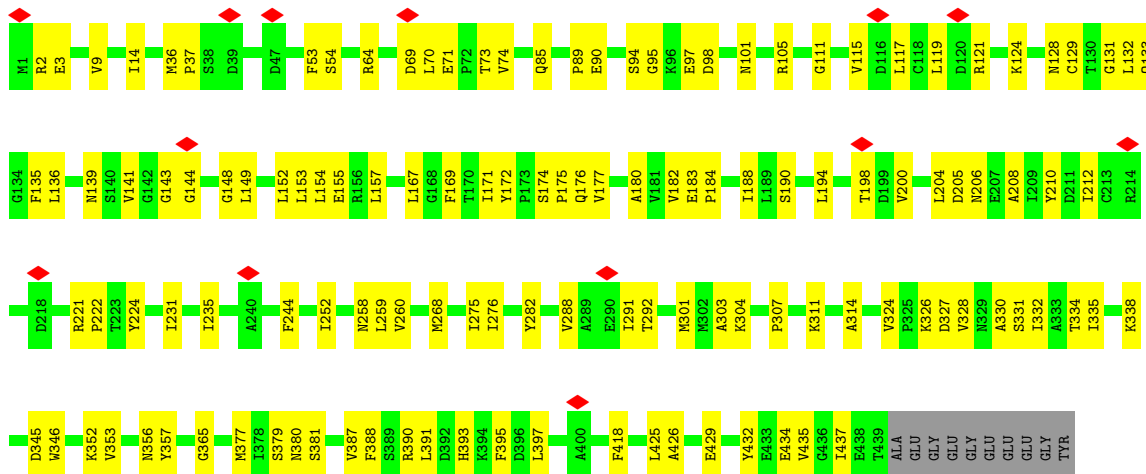


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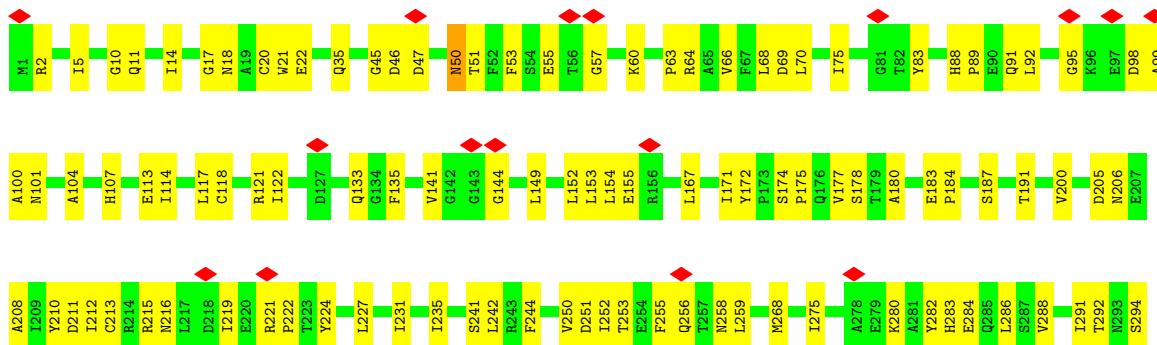


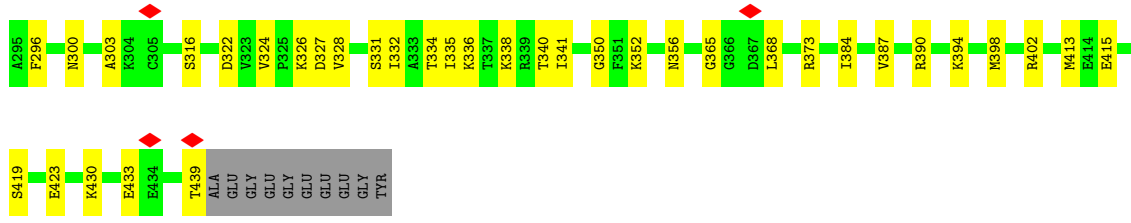


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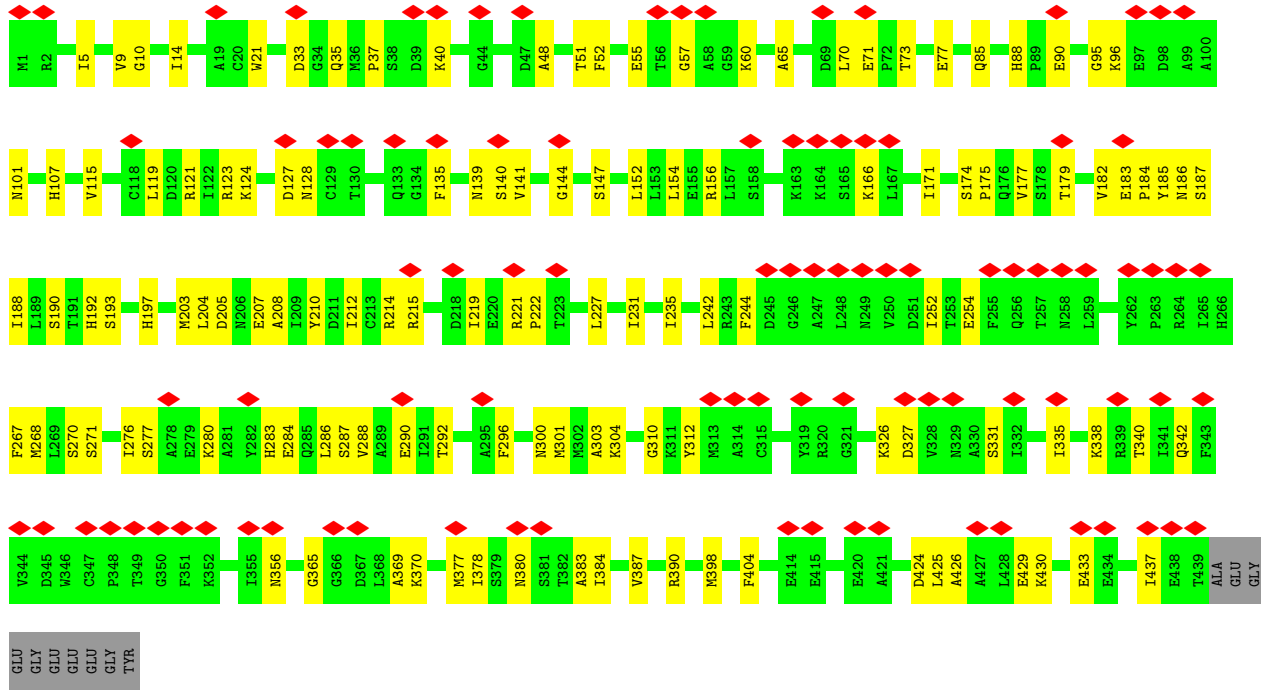
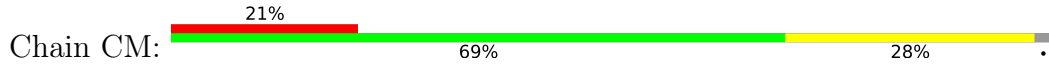


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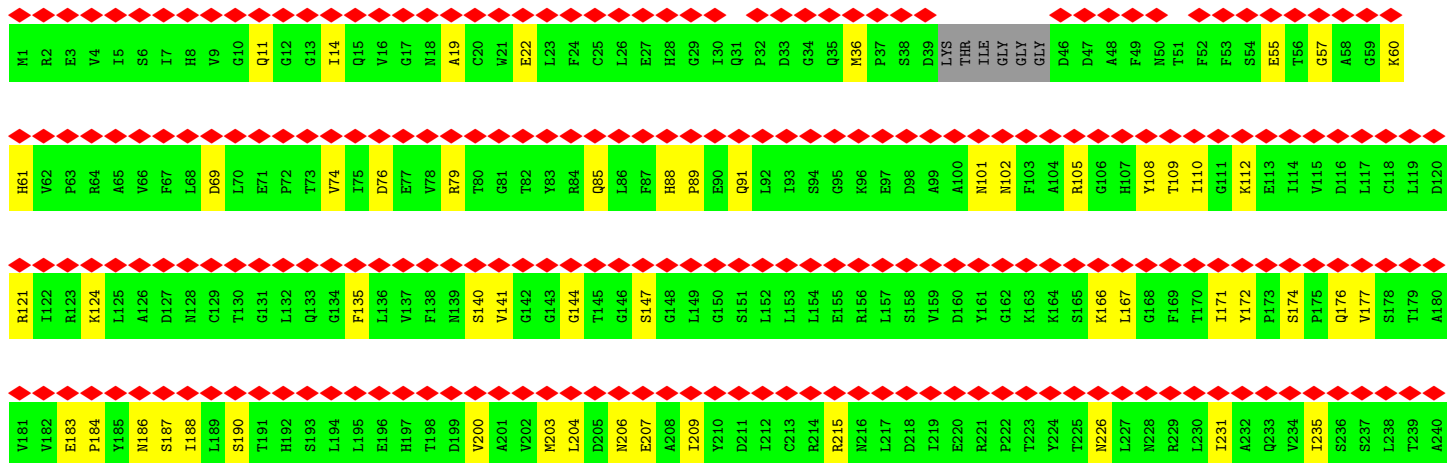
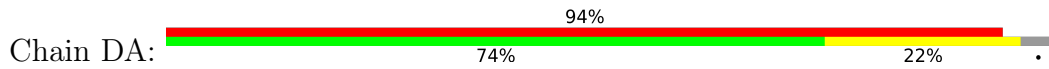


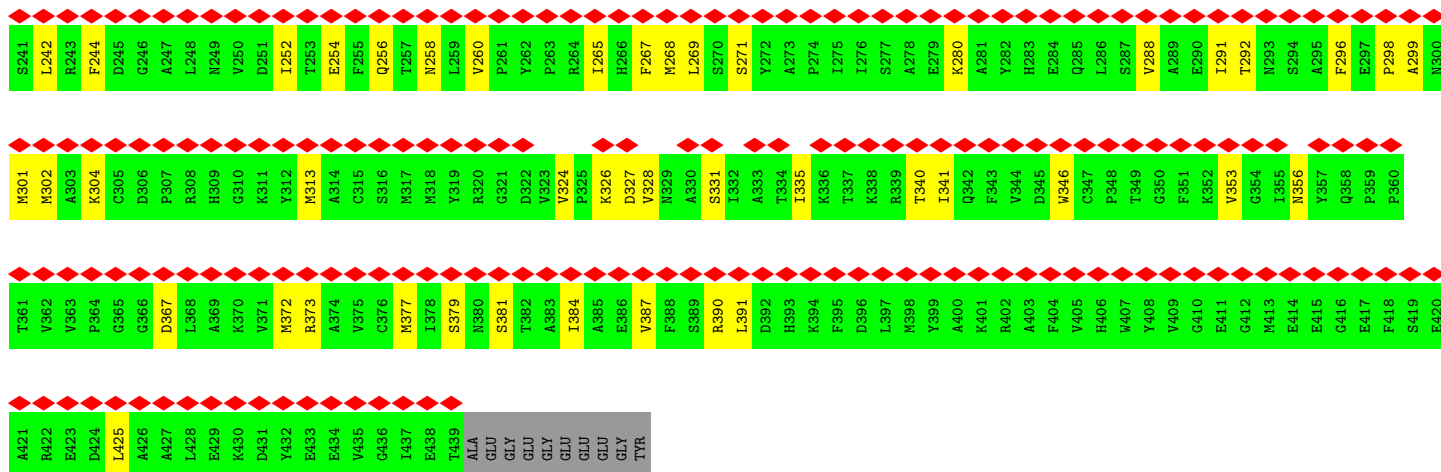


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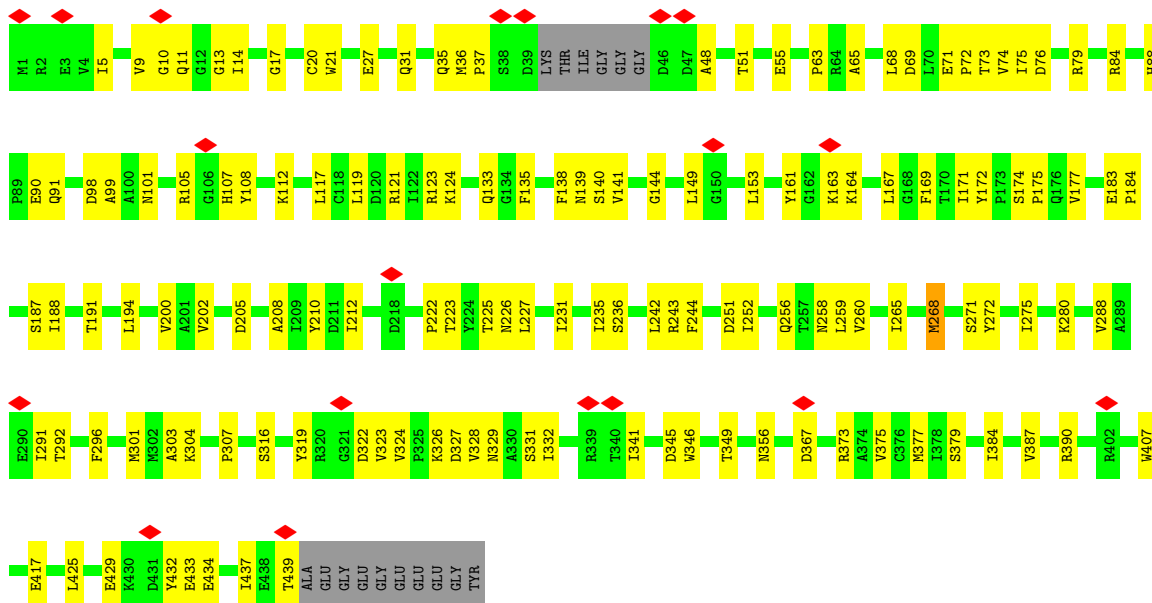


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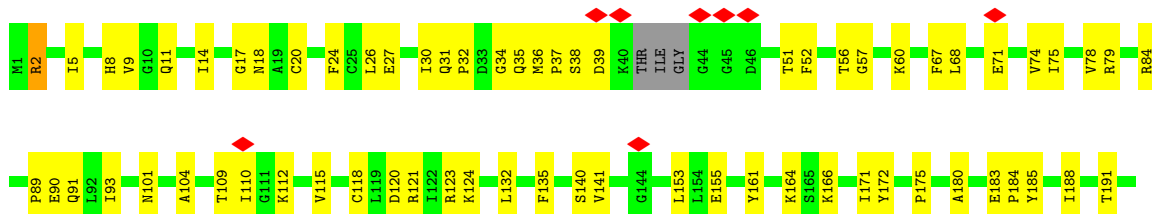


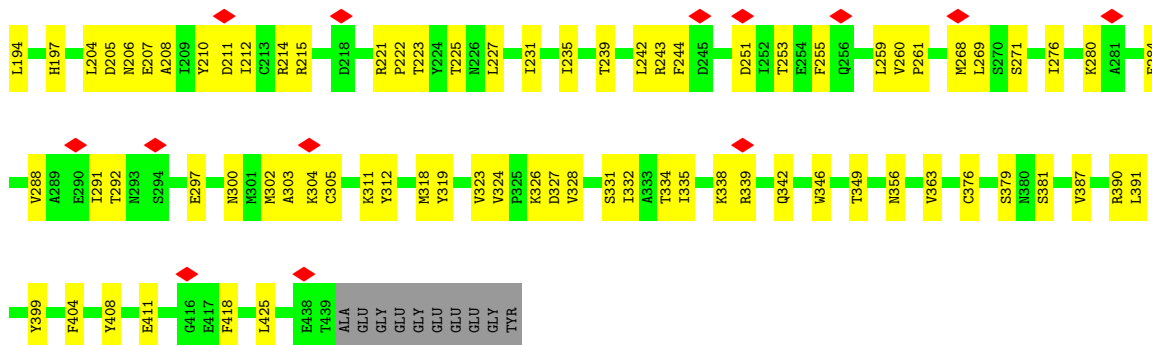


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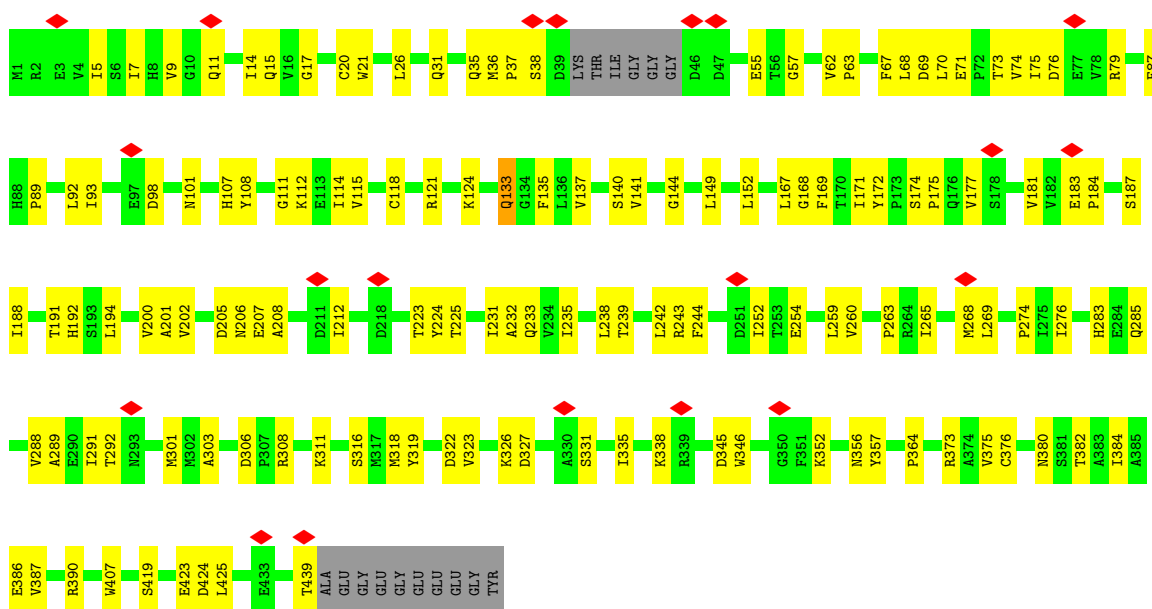


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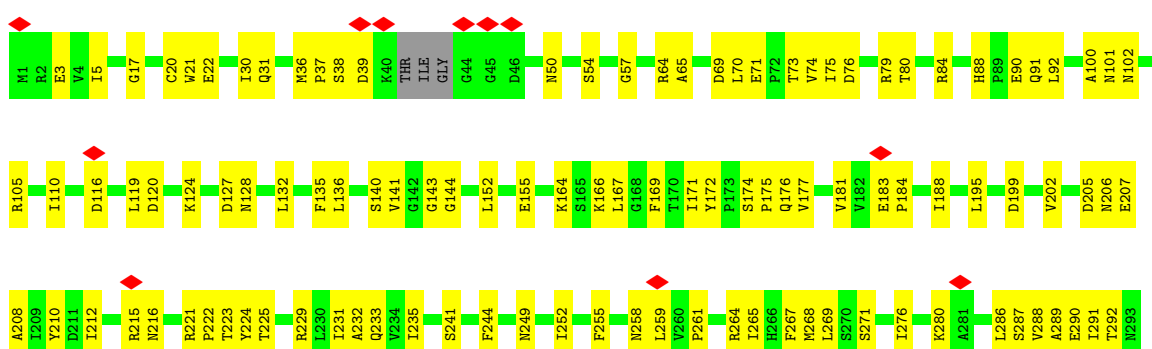


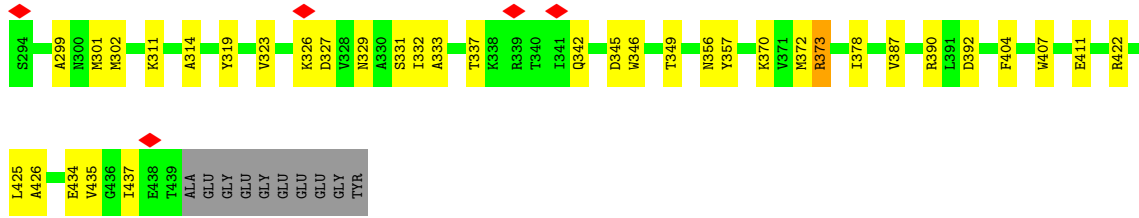


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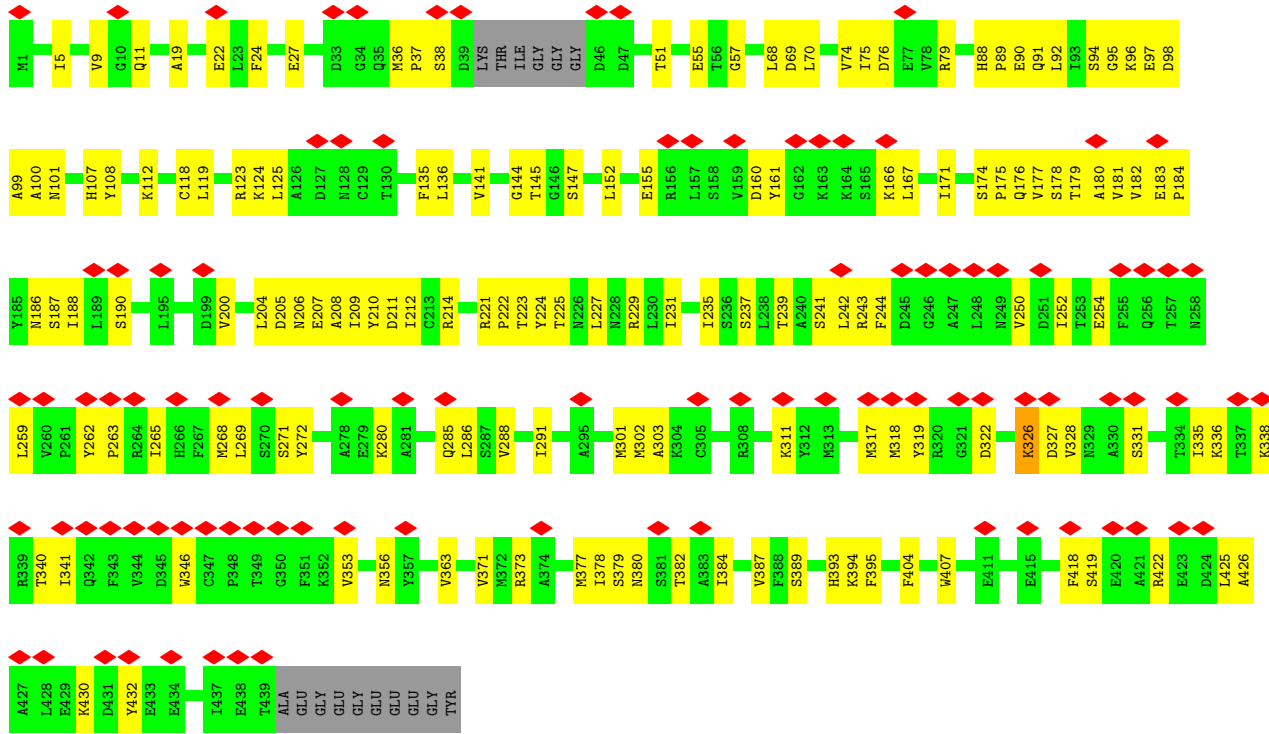


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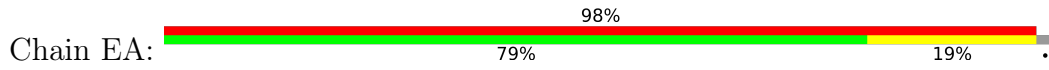


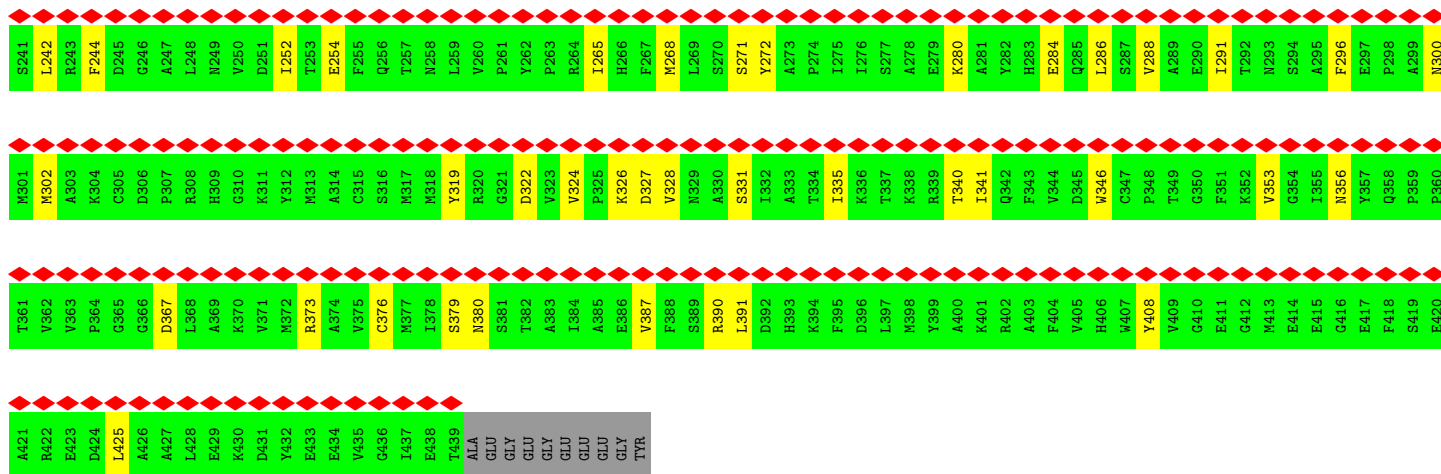


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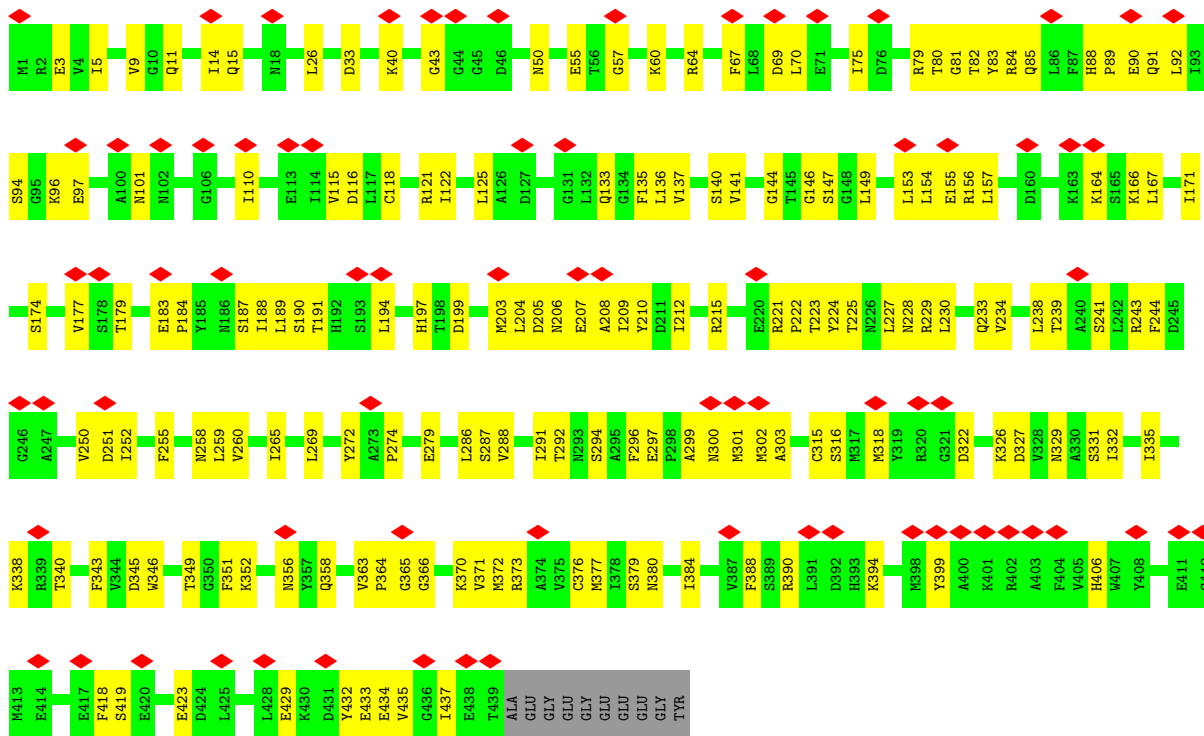


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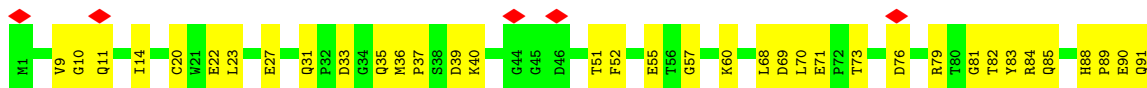


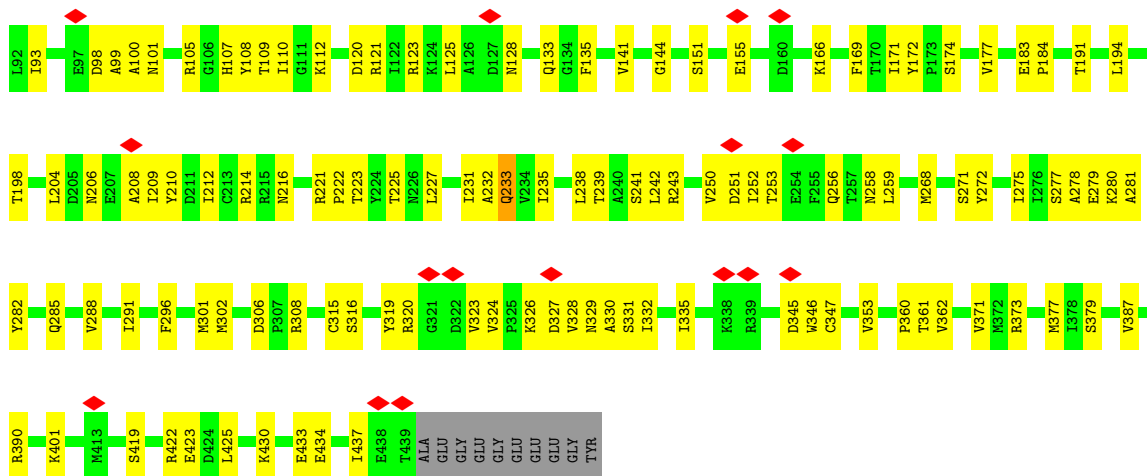


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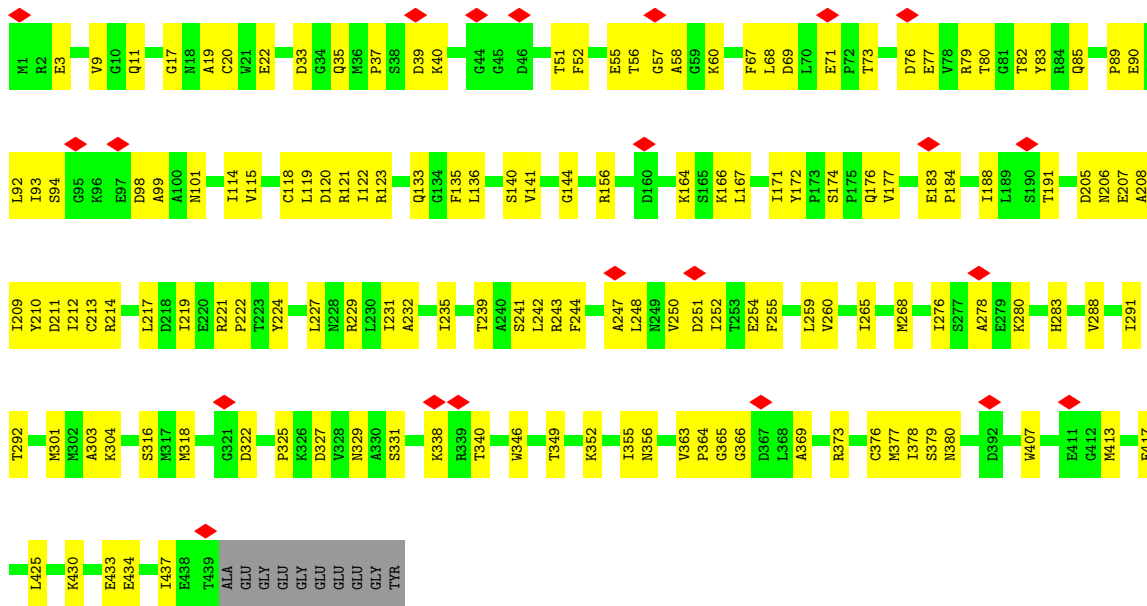


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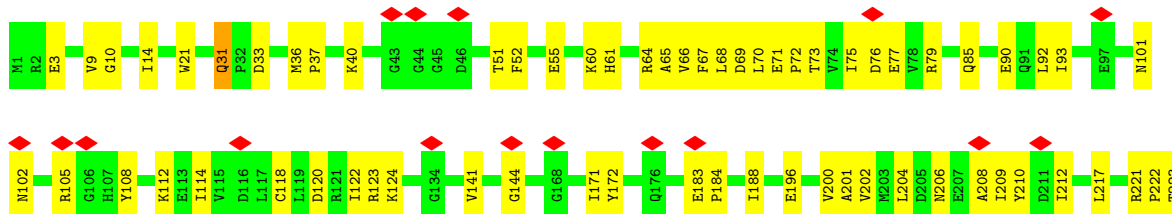




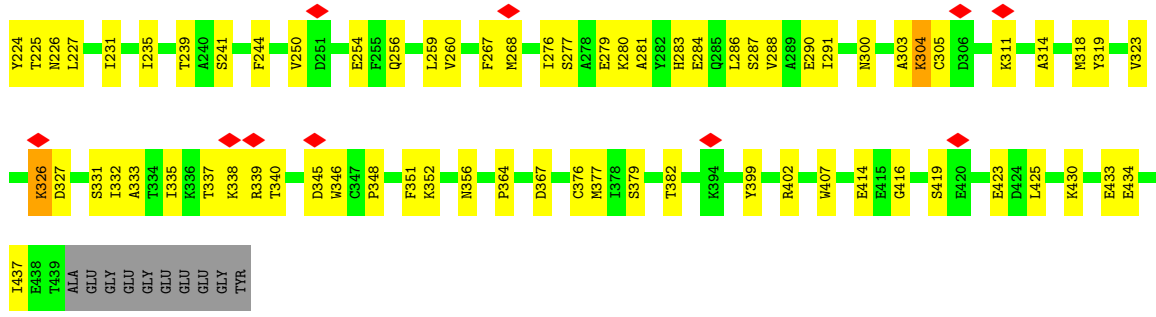
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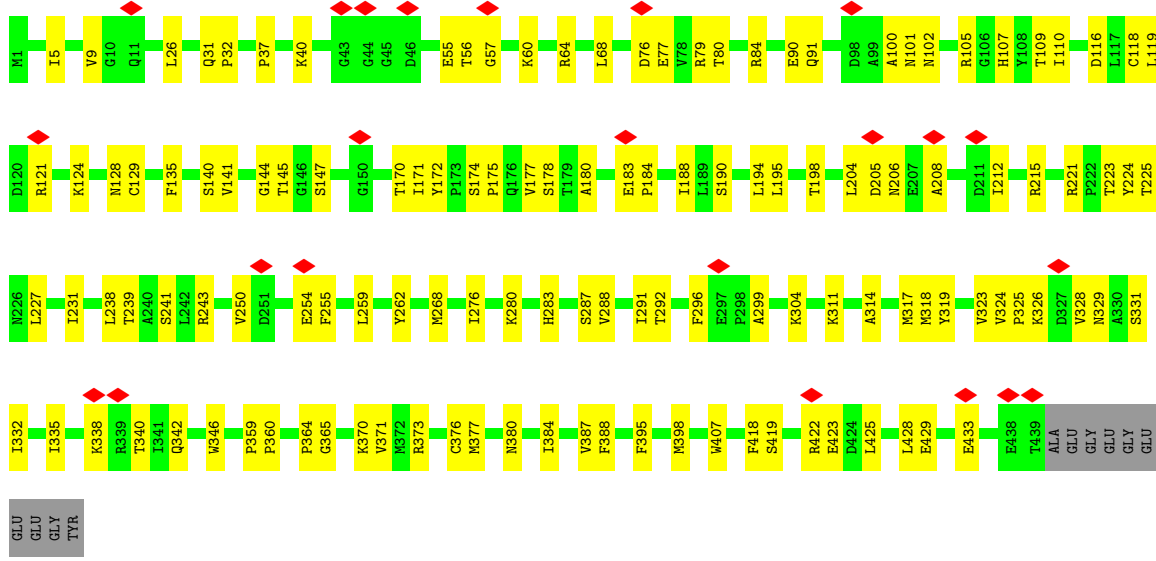
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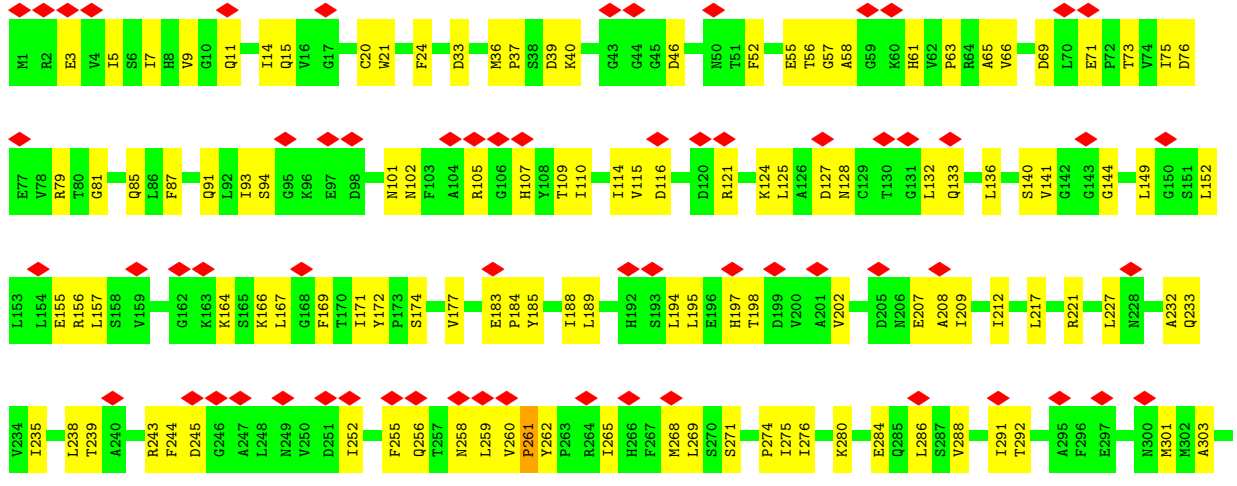


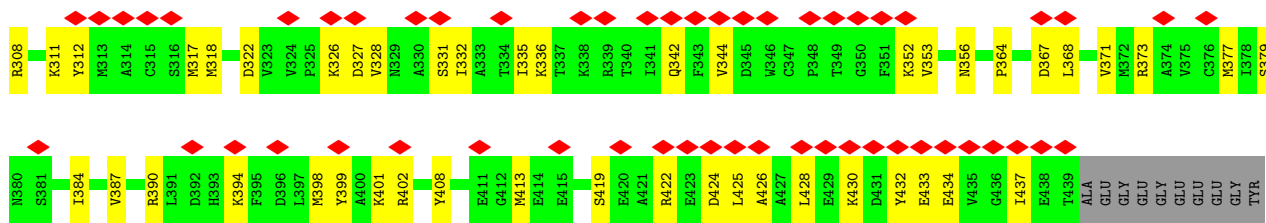


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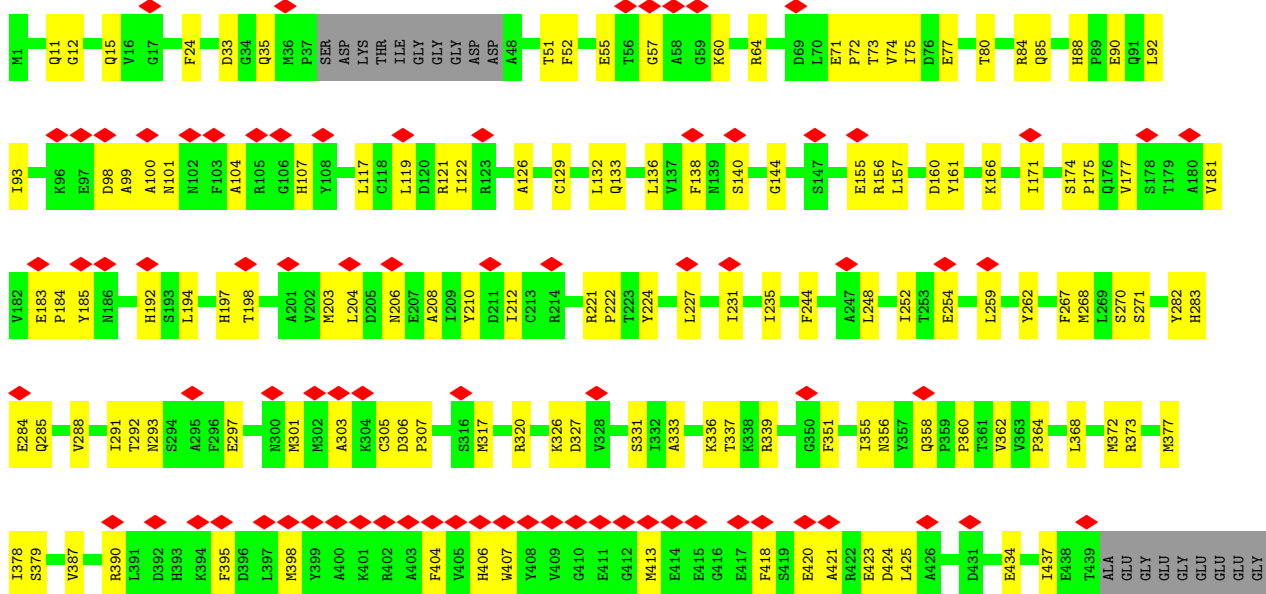


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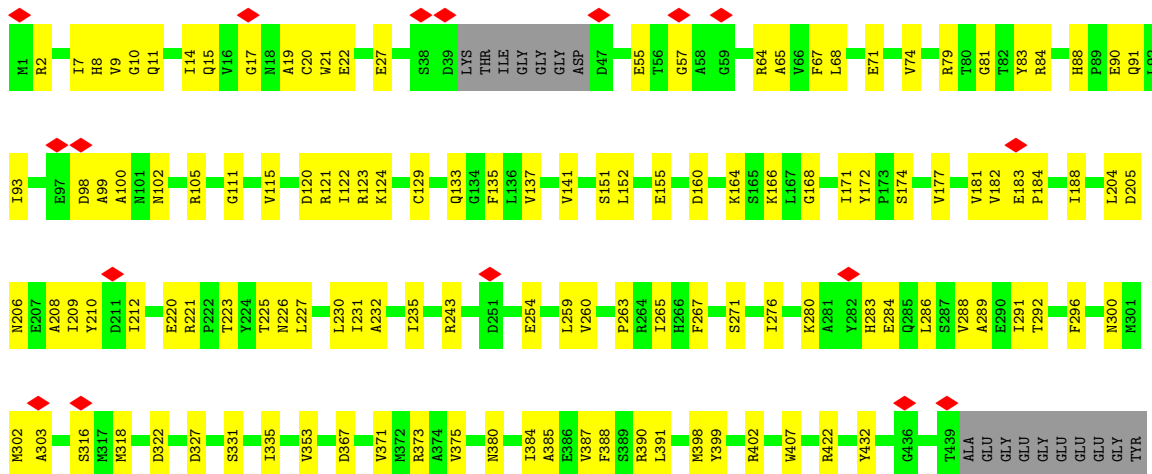




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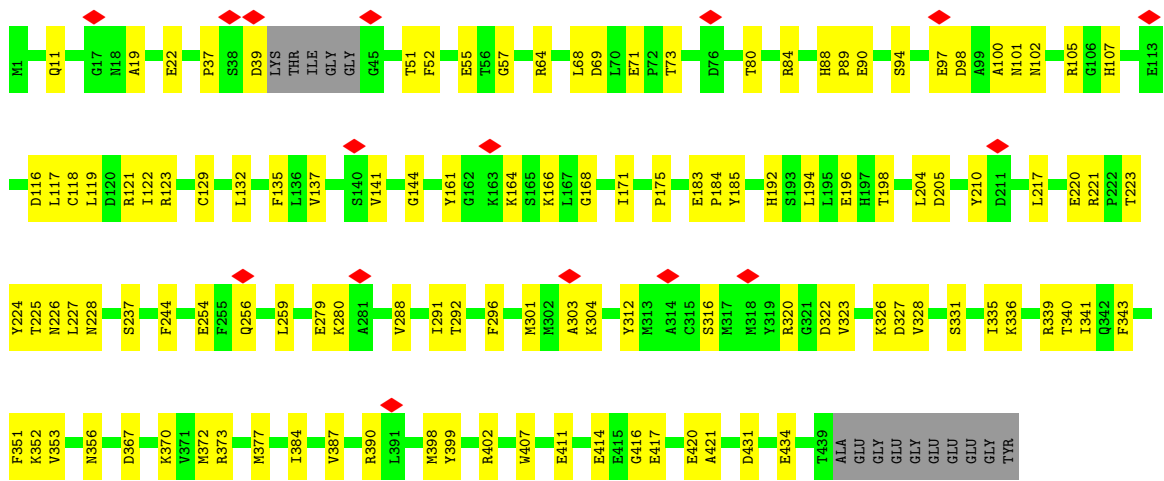


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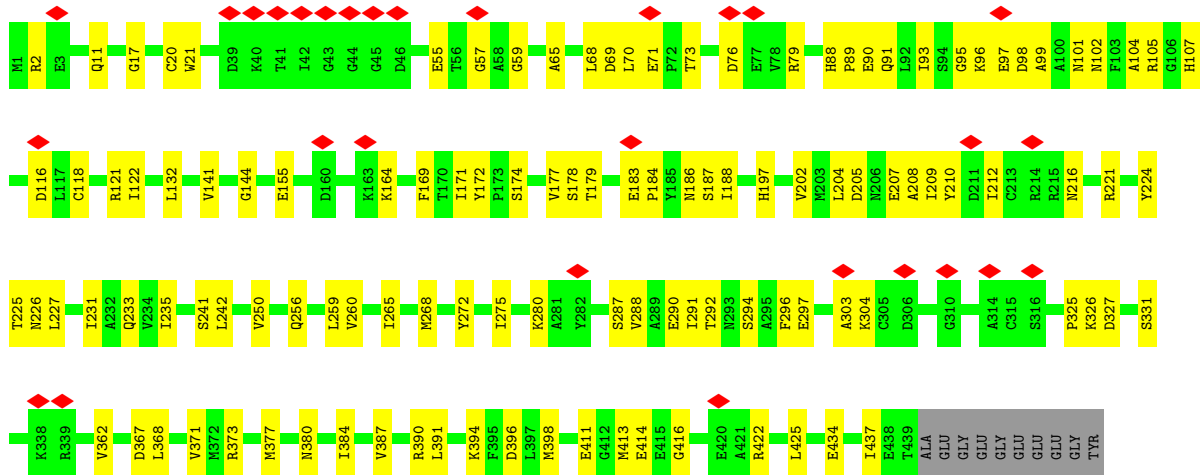
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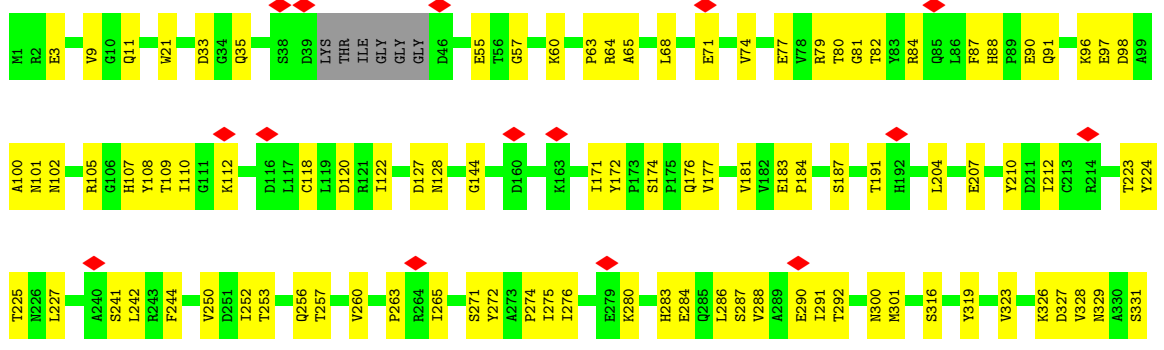
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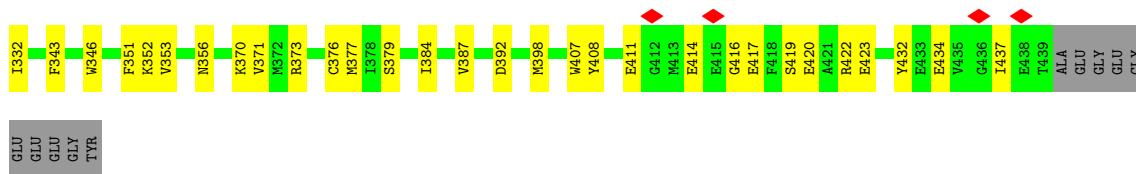
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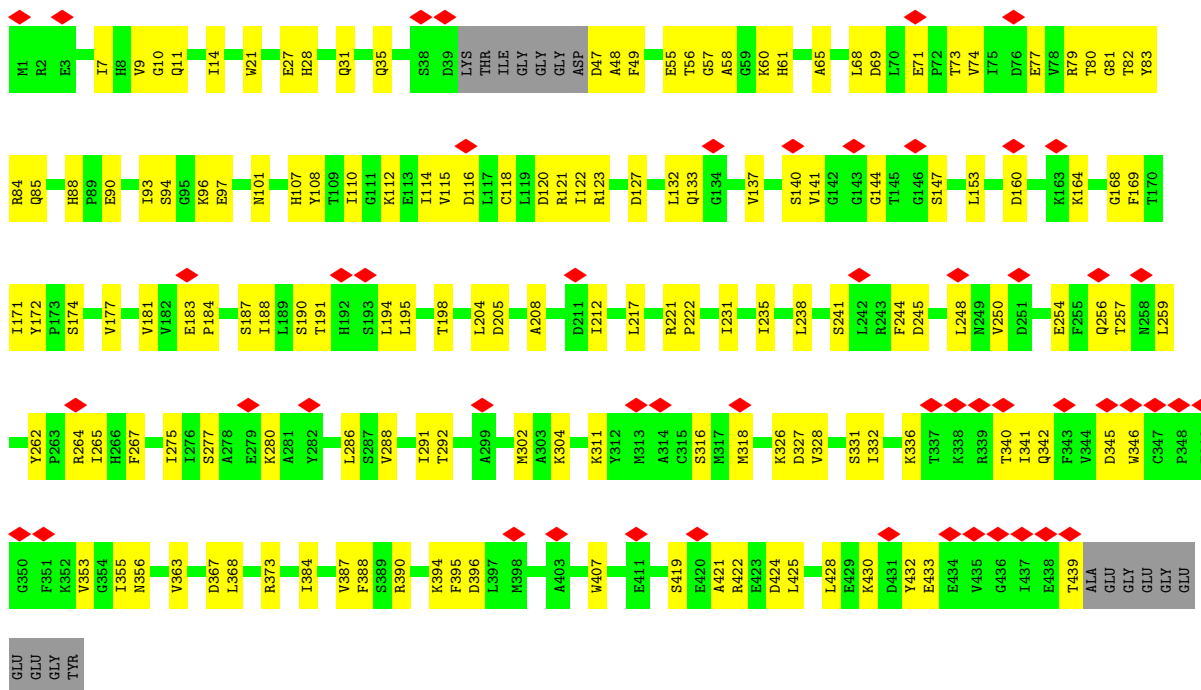
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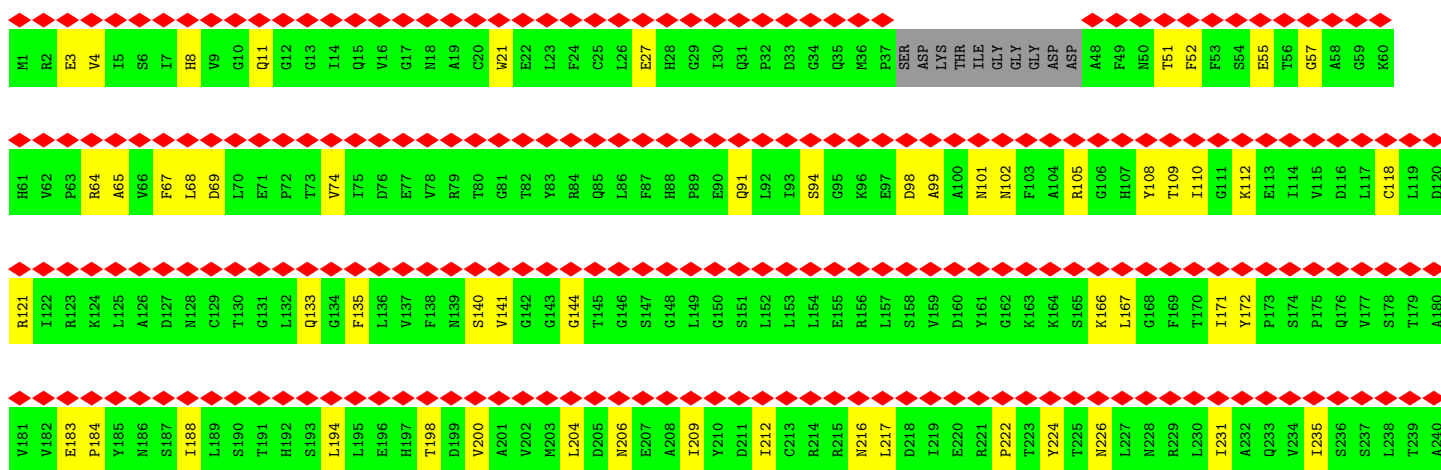
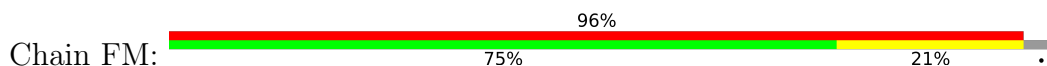


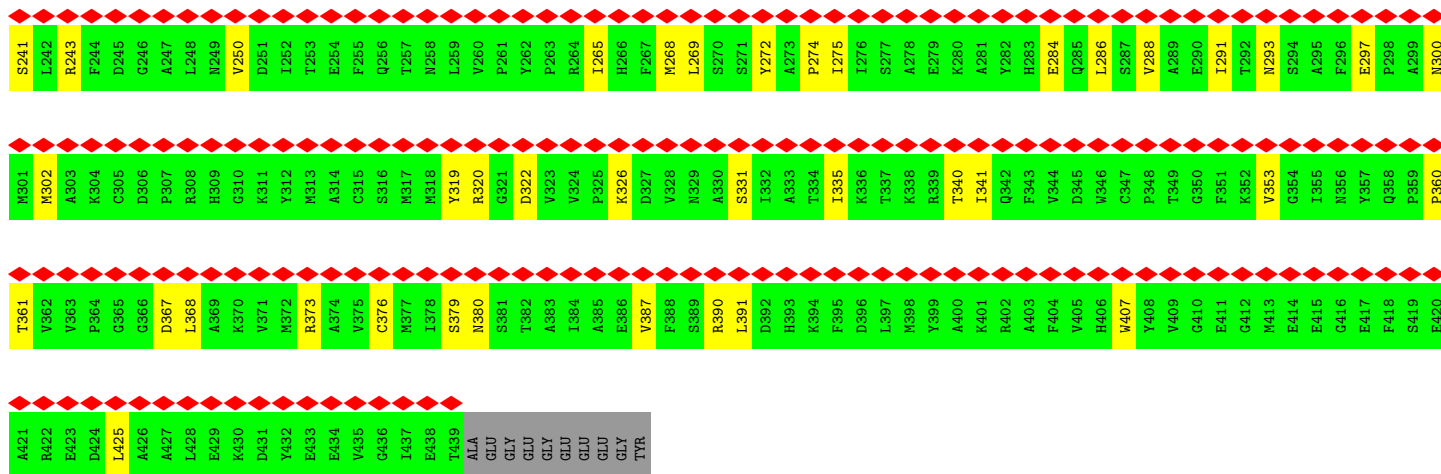


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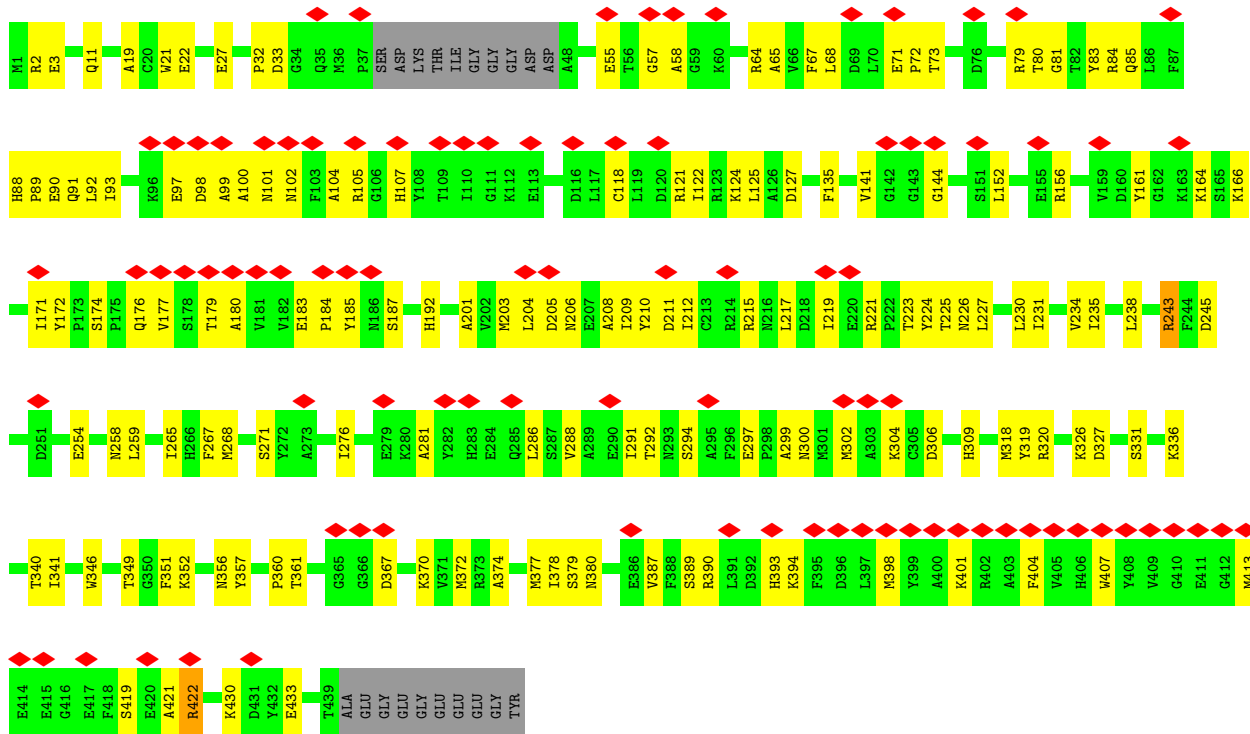


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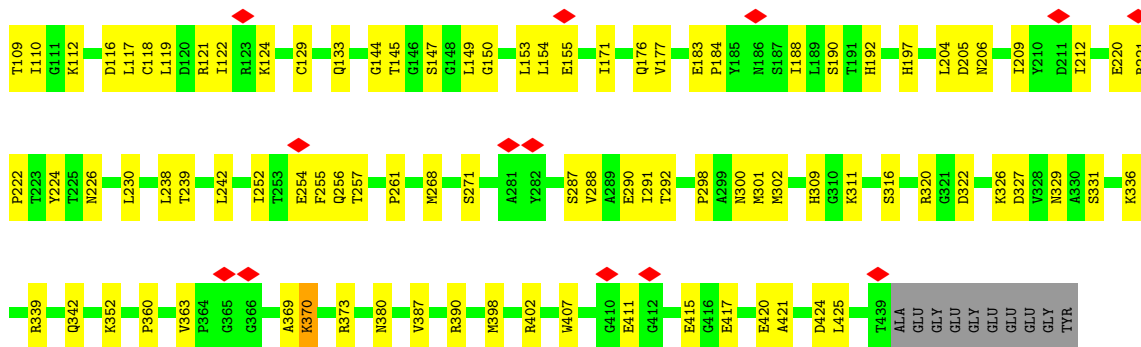


● Molecule 45: Tubulin alpha chain

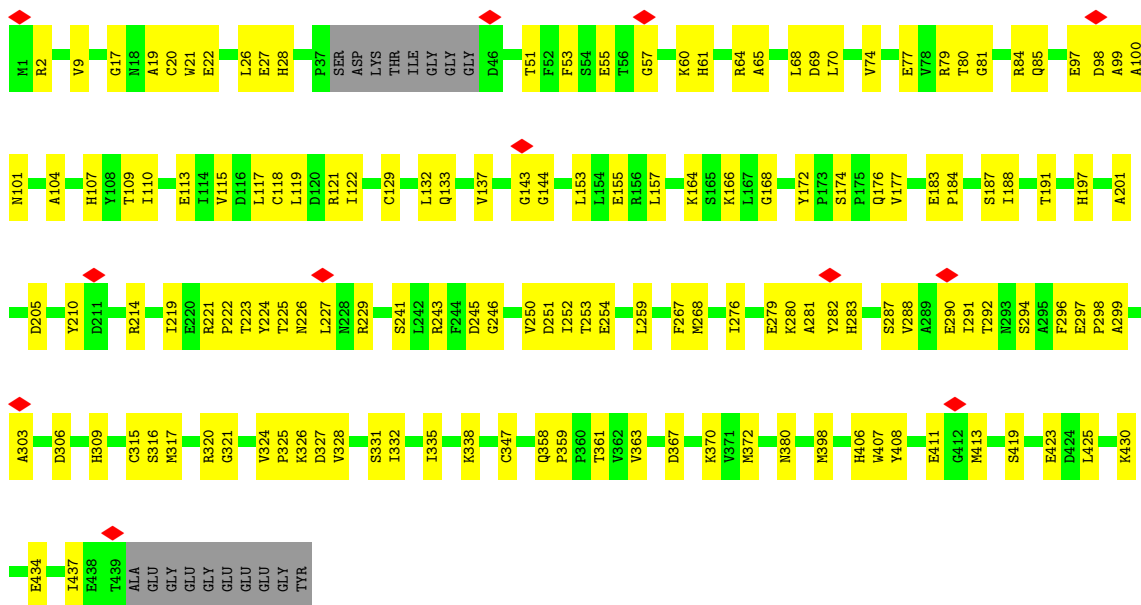


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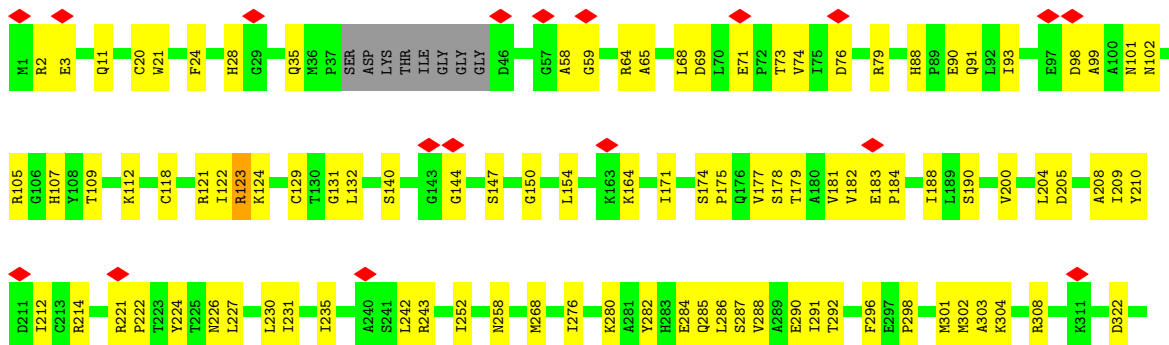


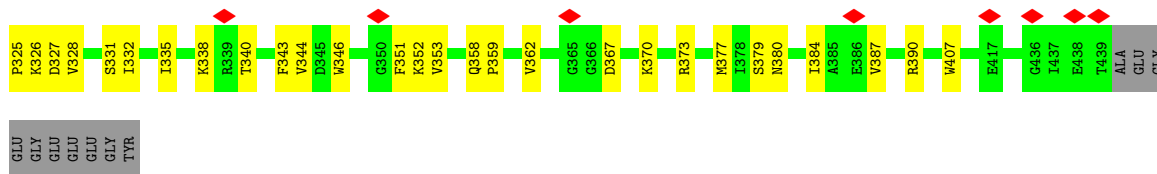


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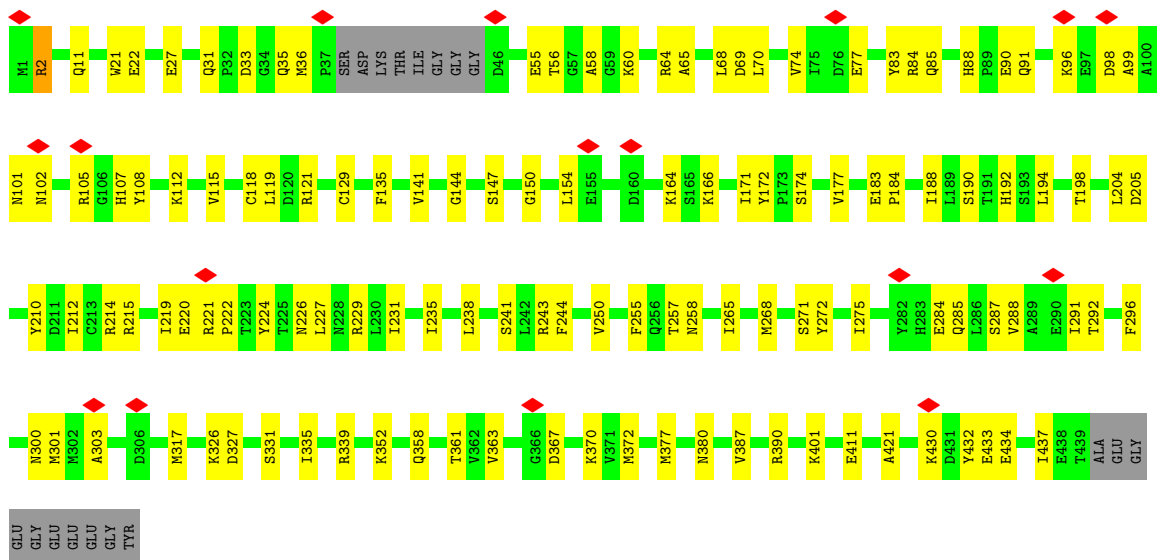


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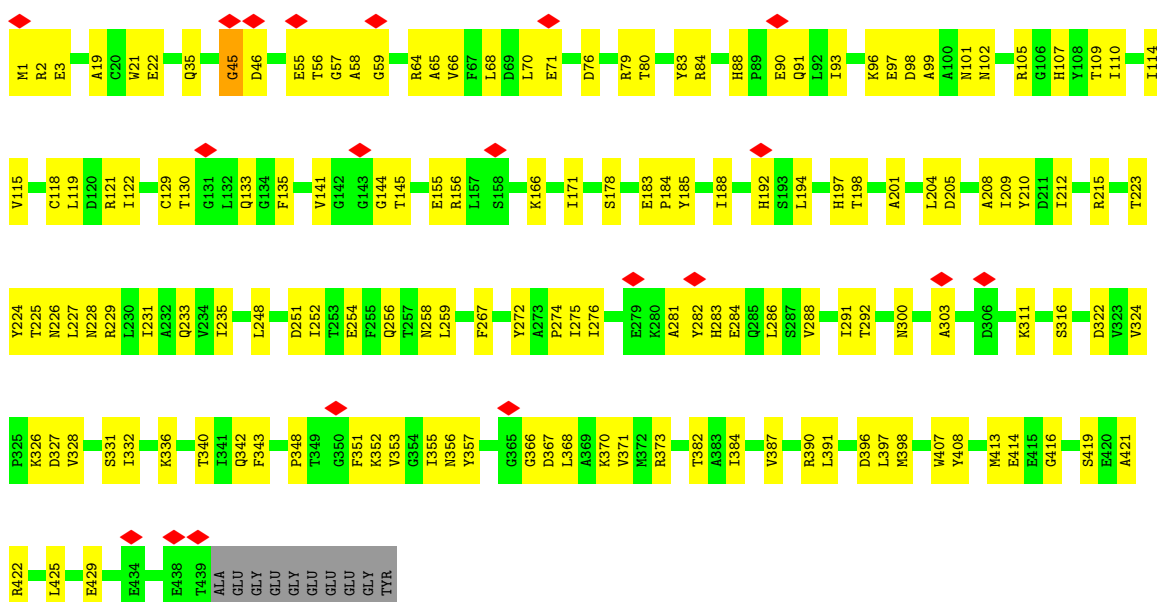




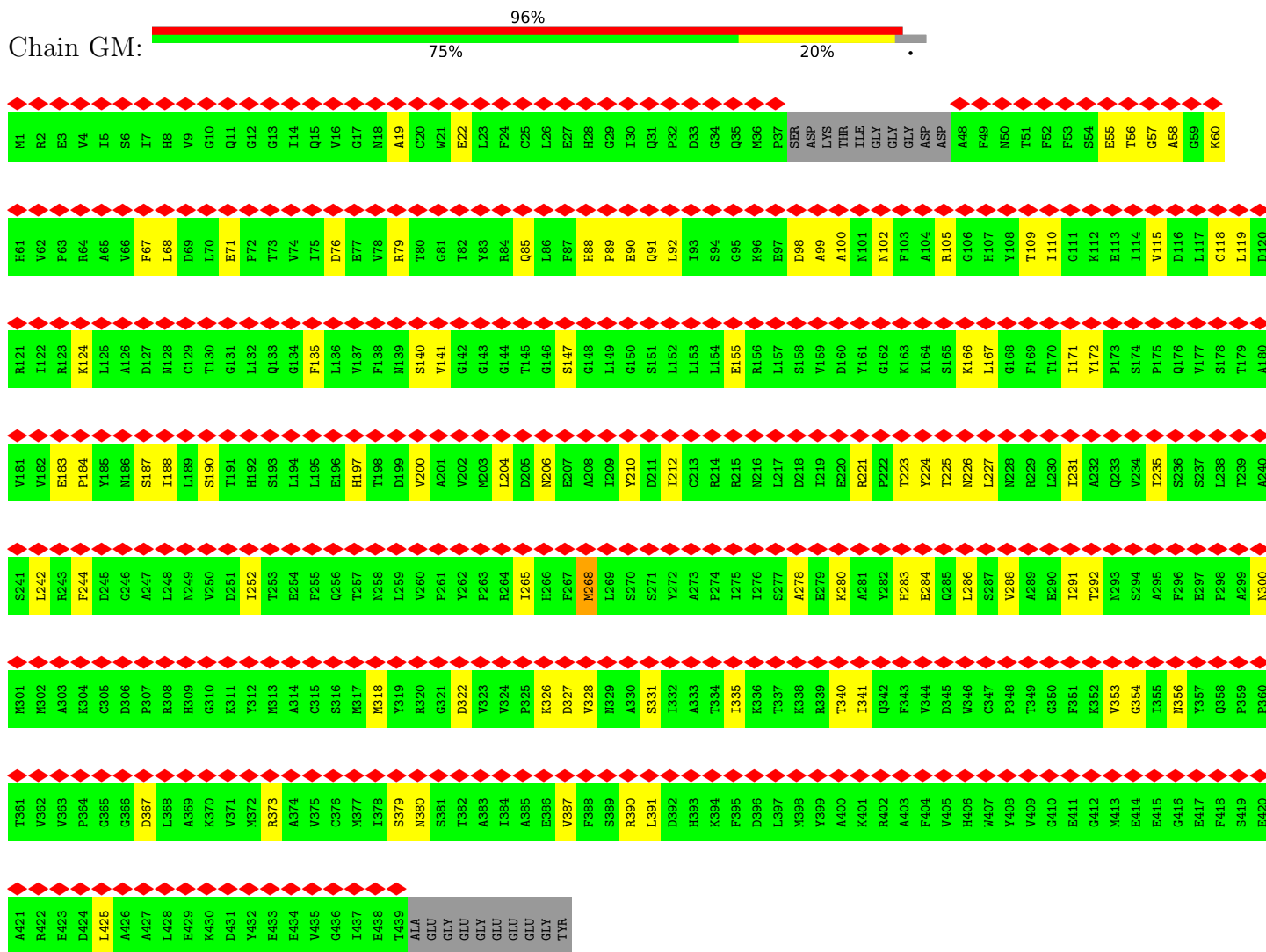
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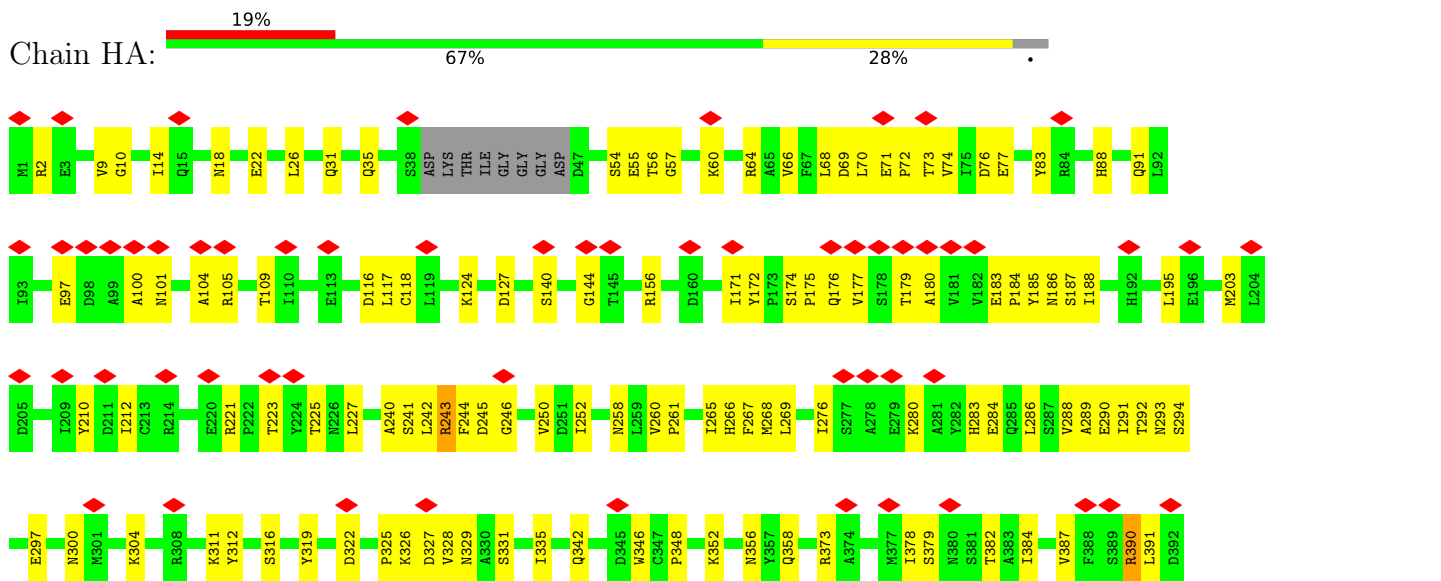
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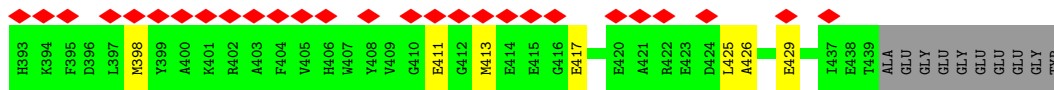
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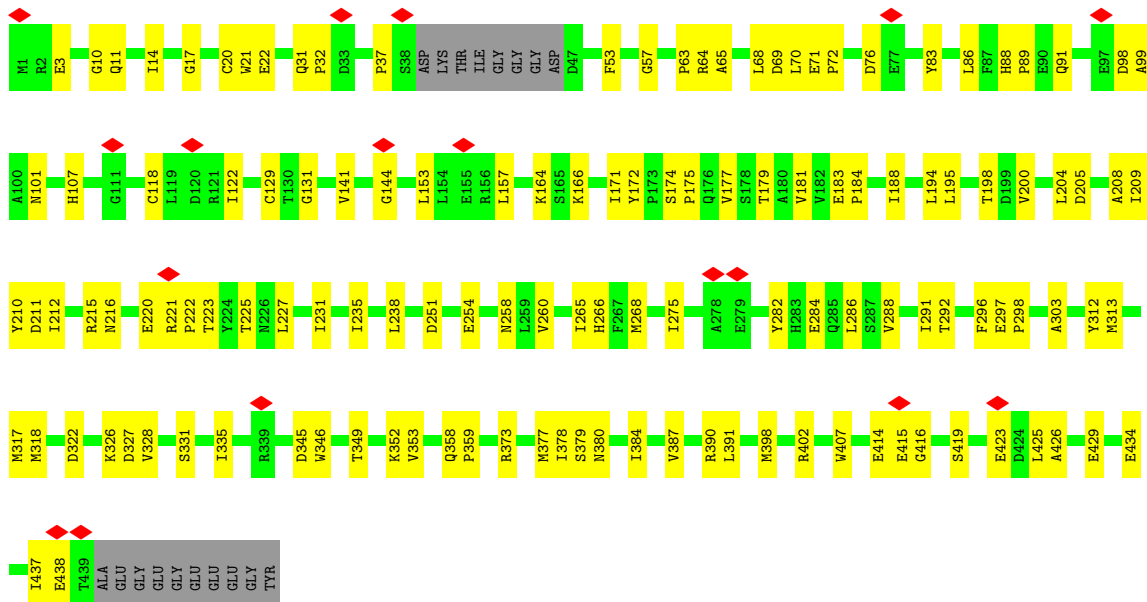
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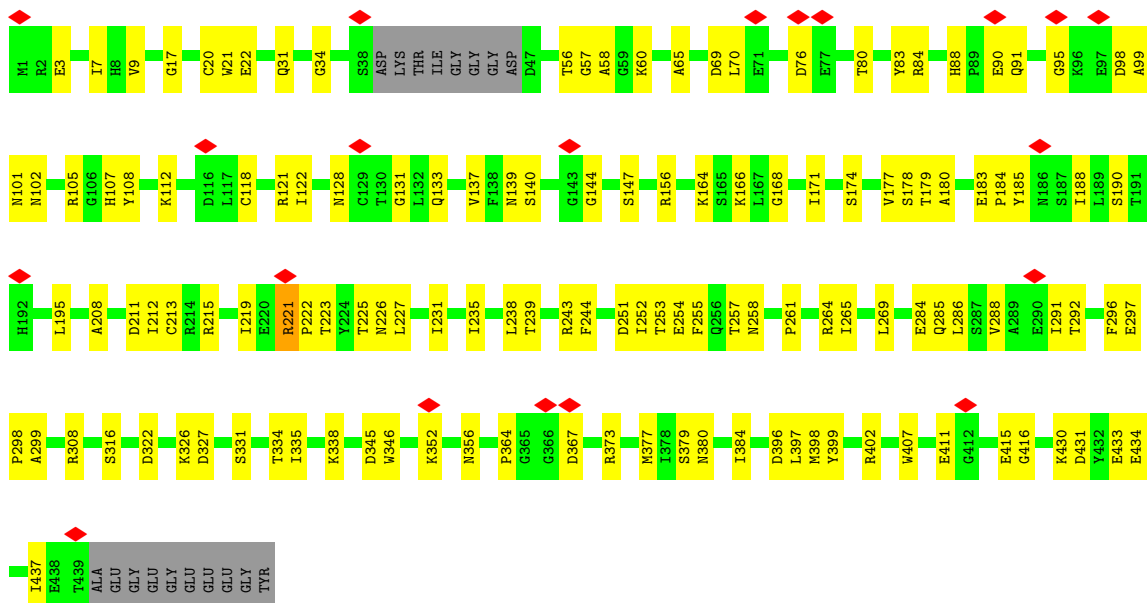




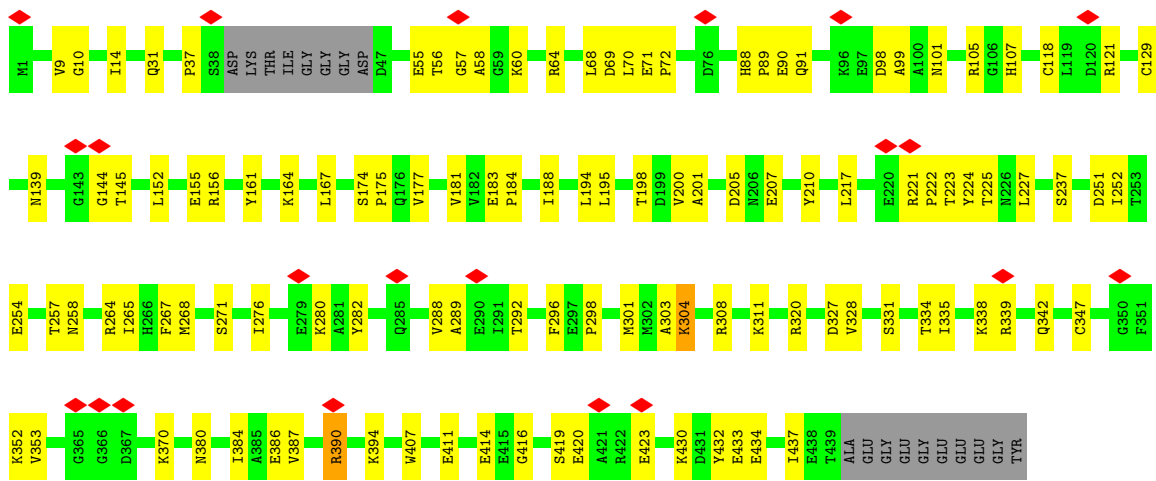
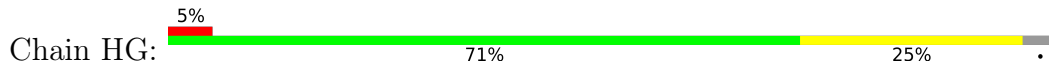
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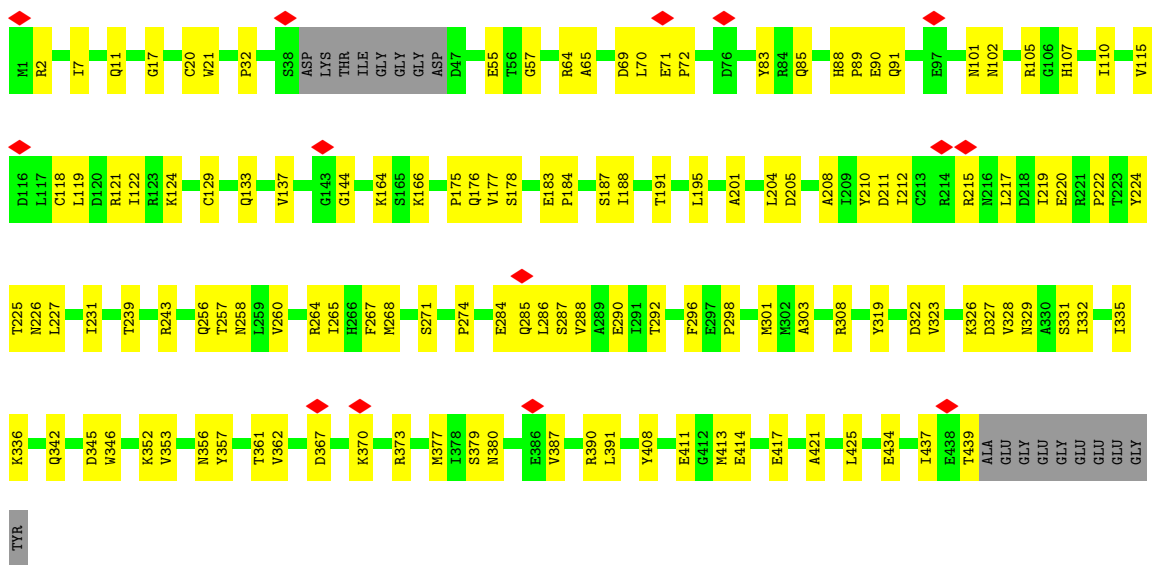
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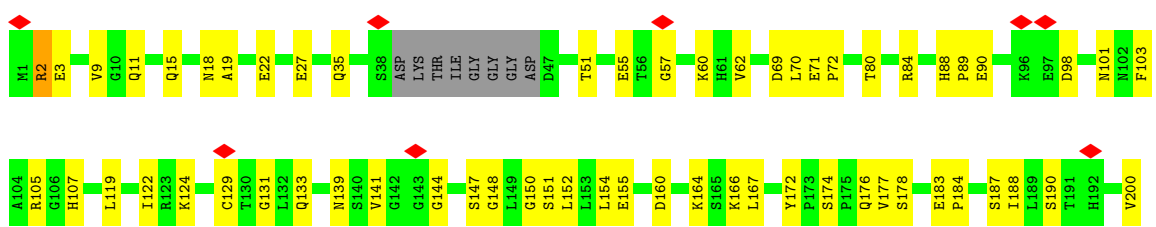
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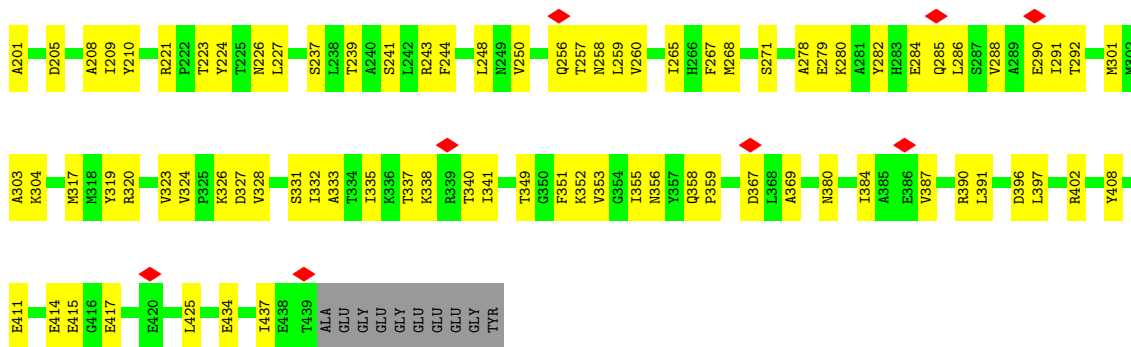


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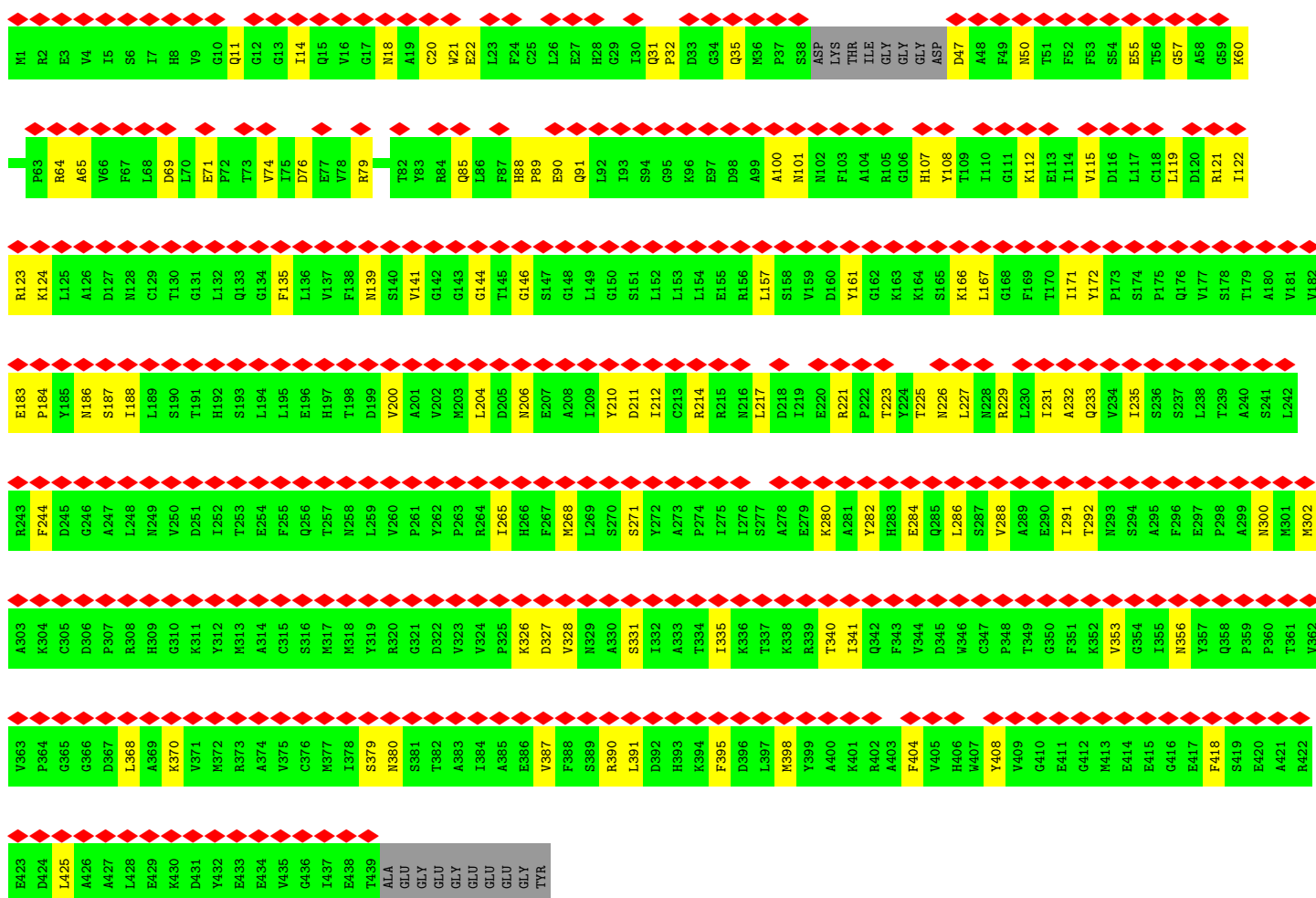
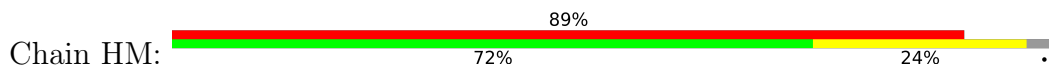


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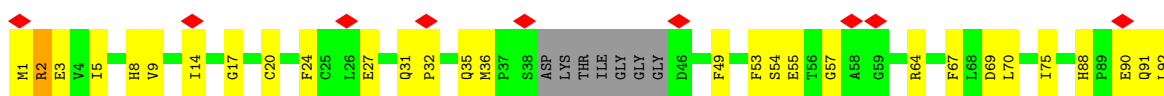


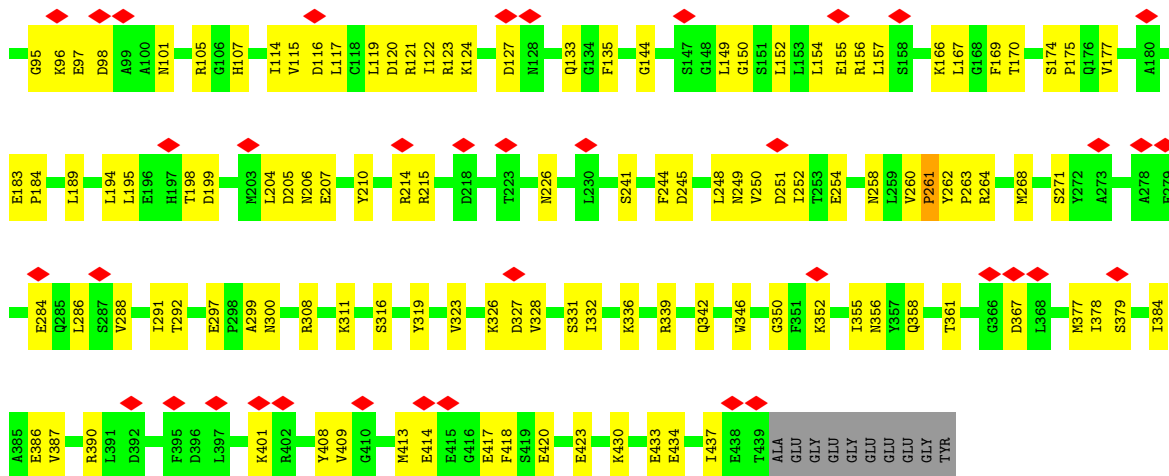


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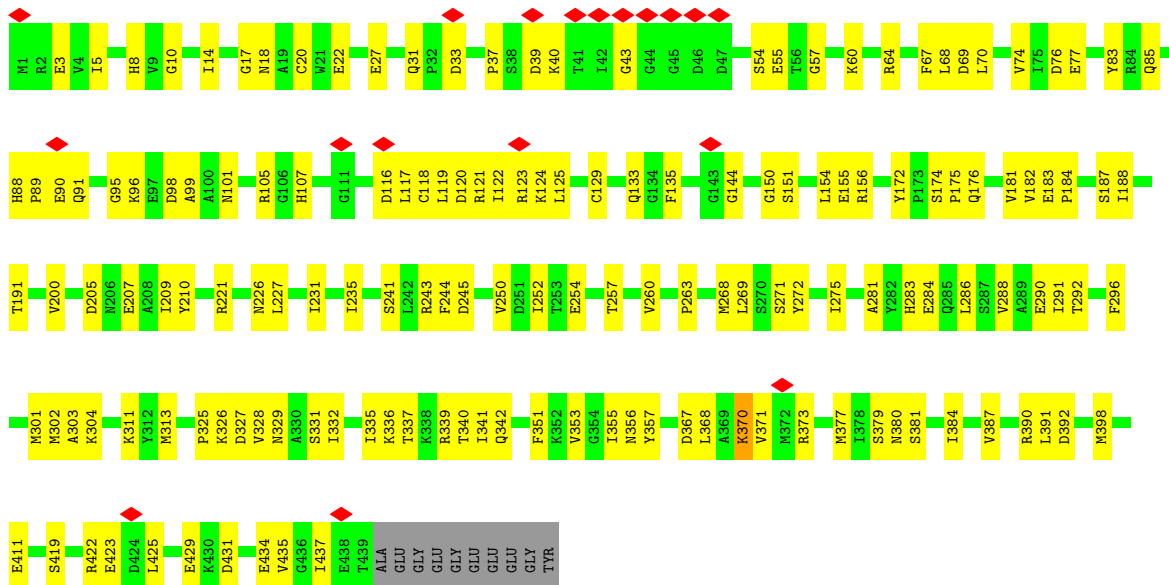


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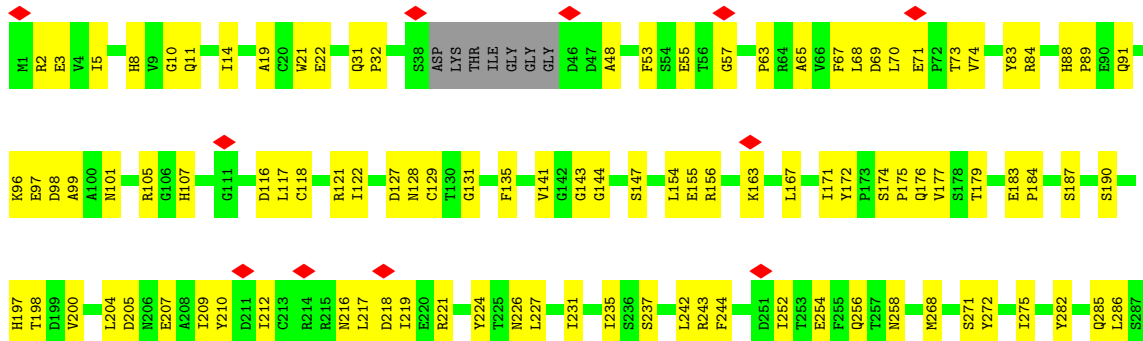


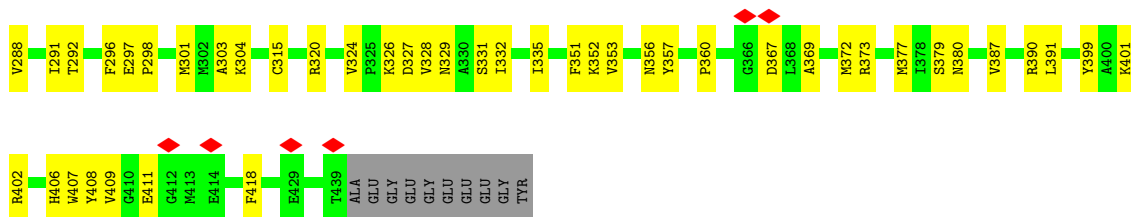


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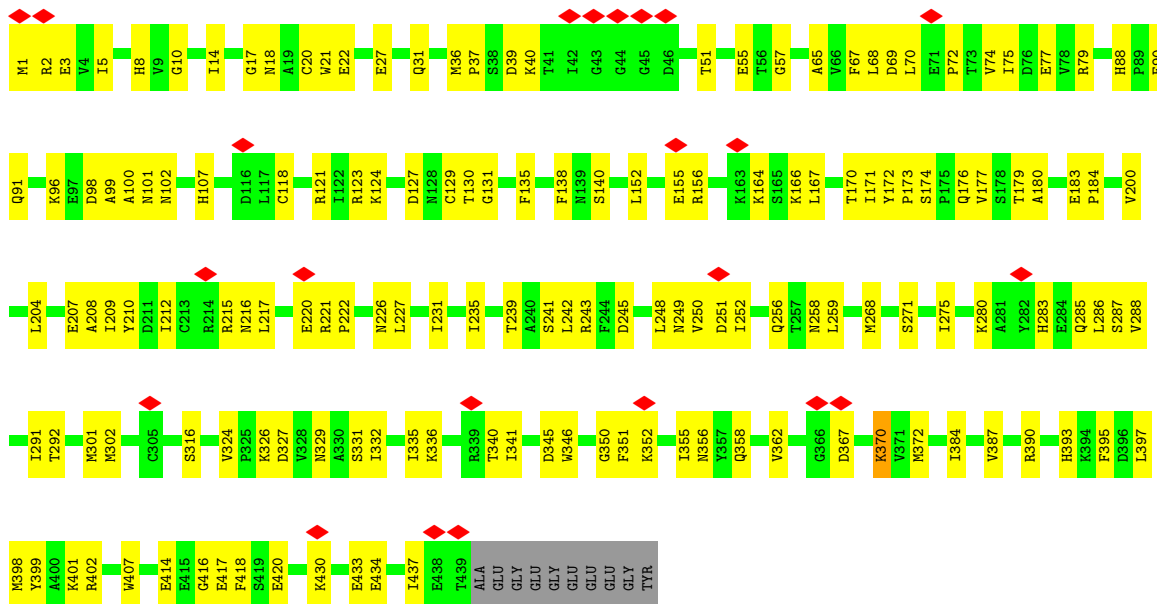


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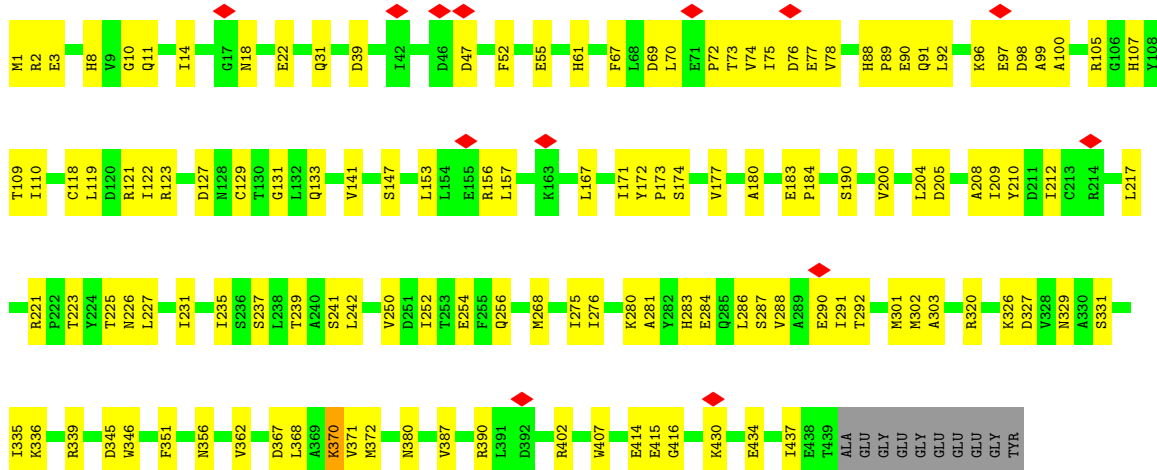




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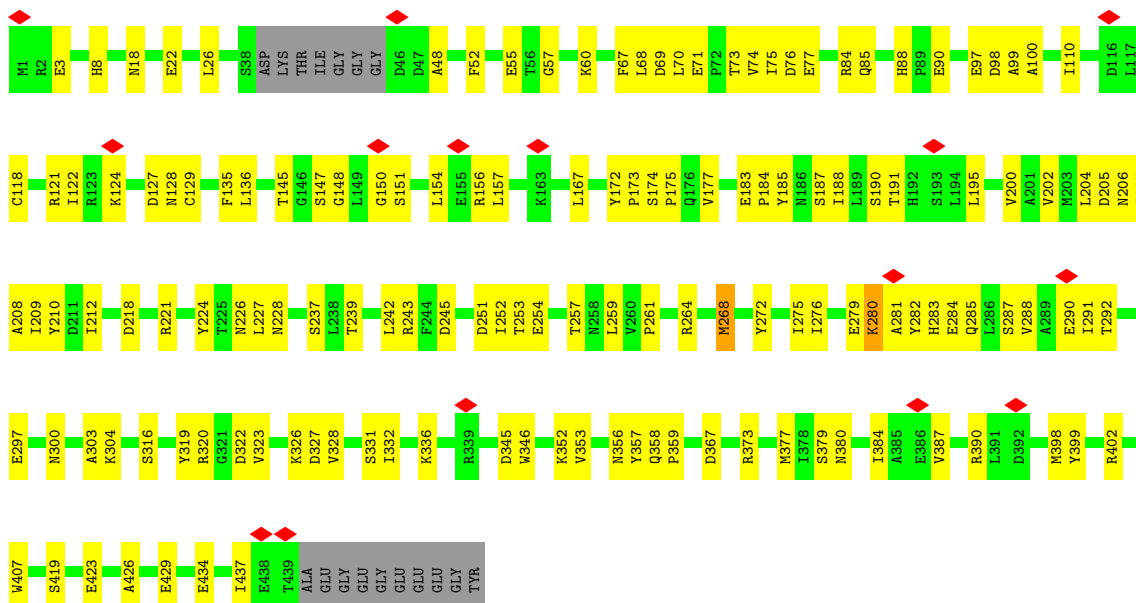


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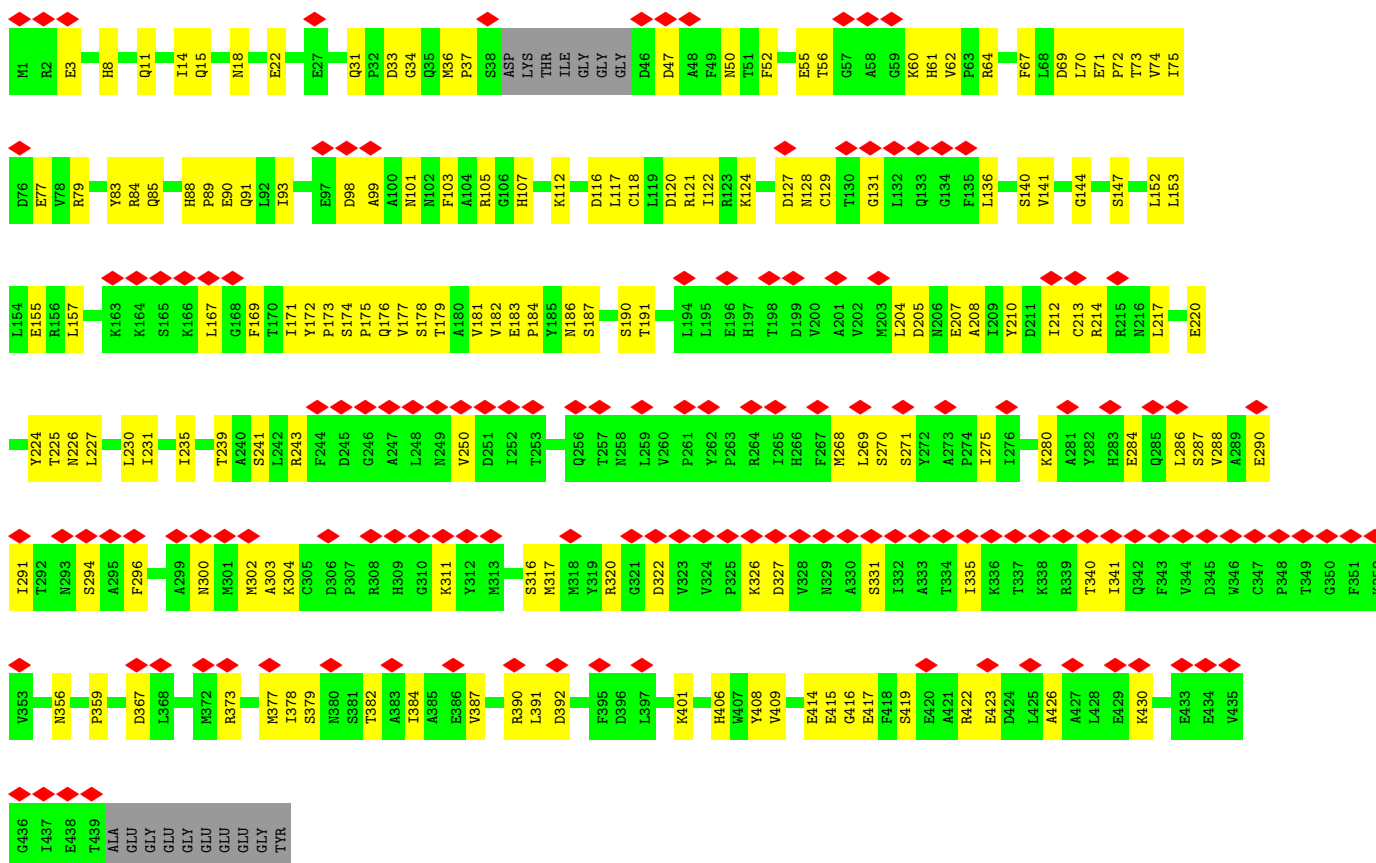
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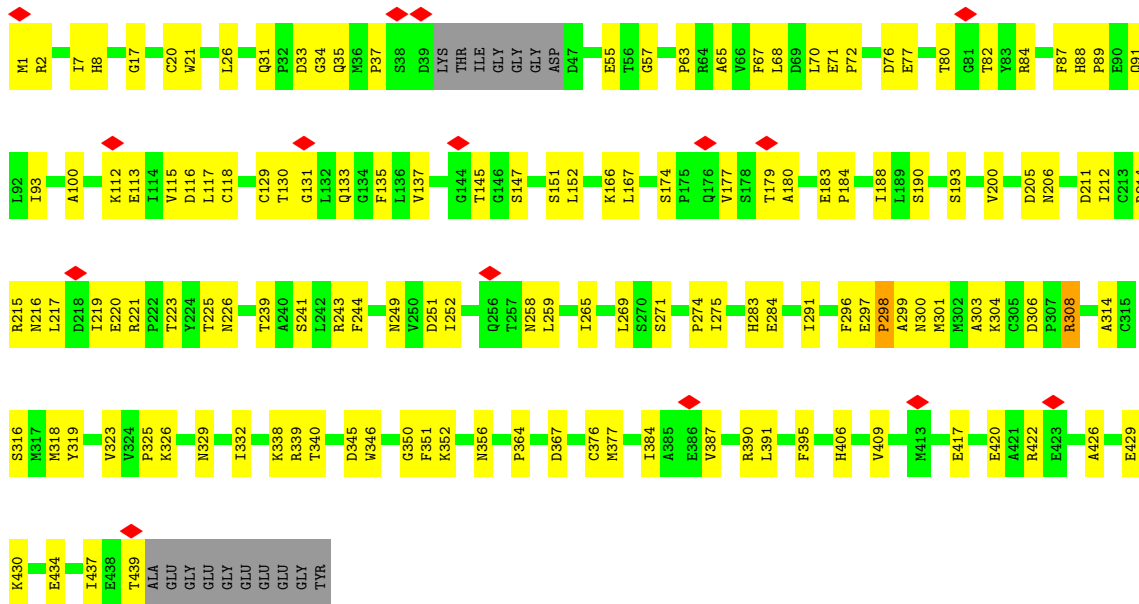


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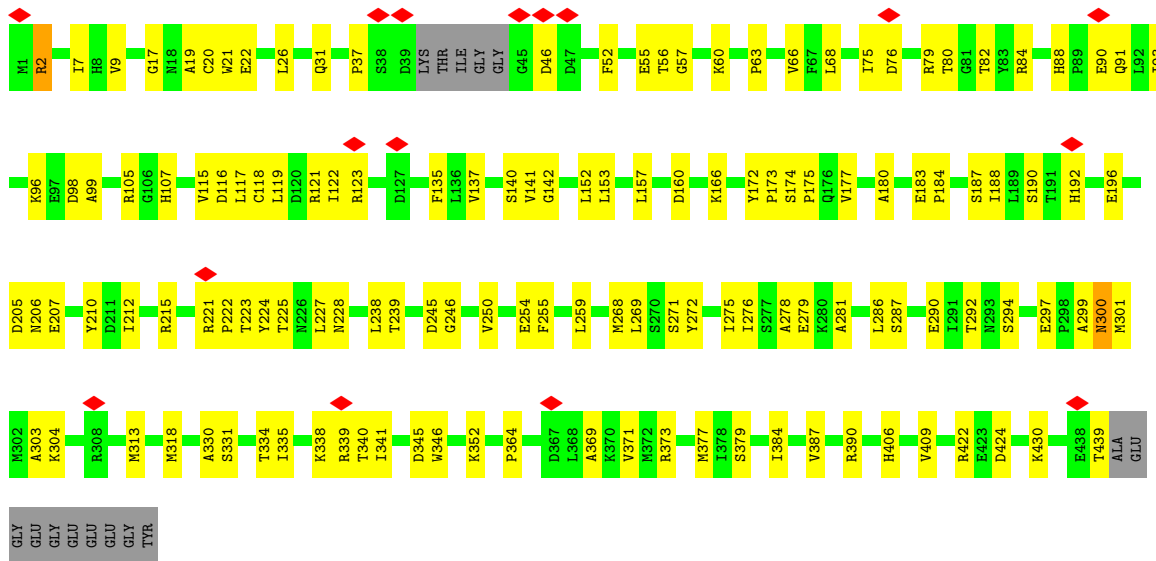
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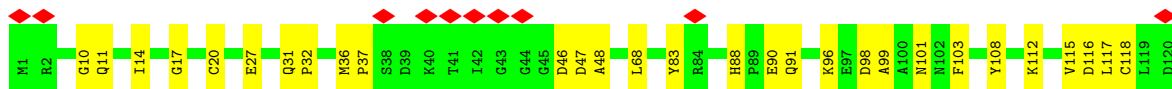
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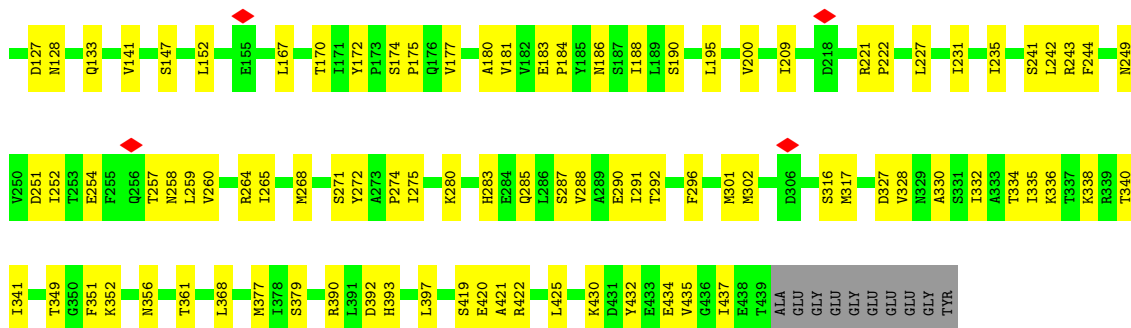


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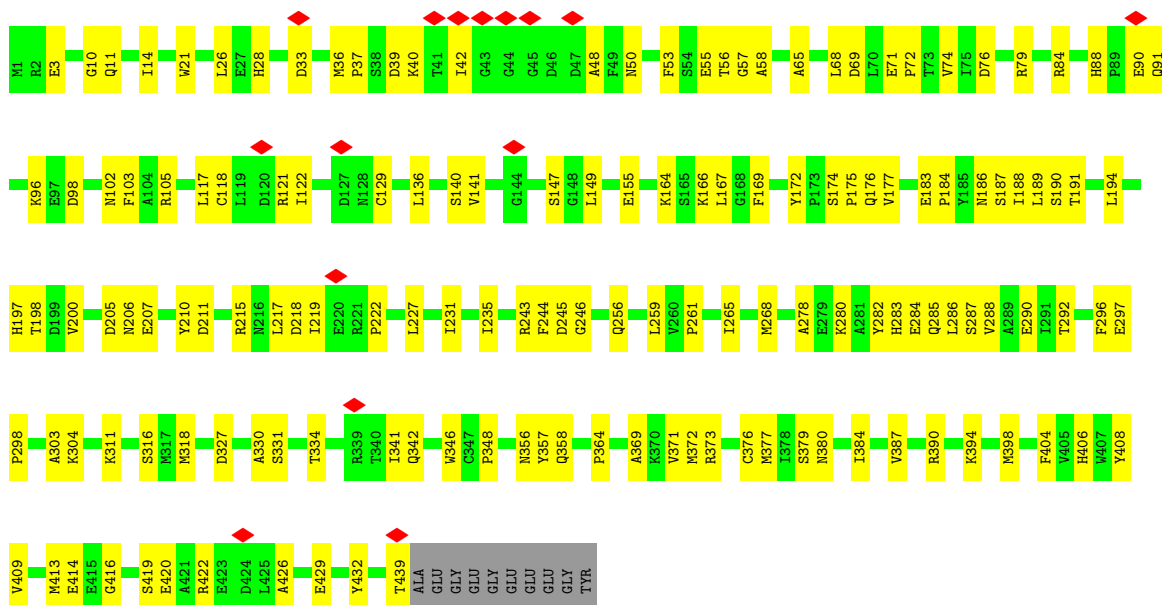


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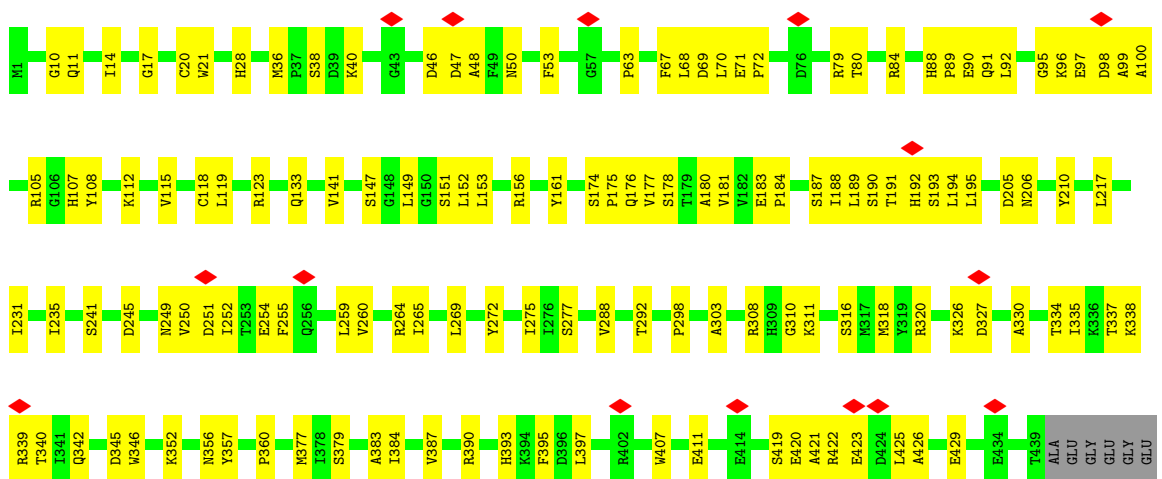




• Molecule 45: Tubulin alpha chain



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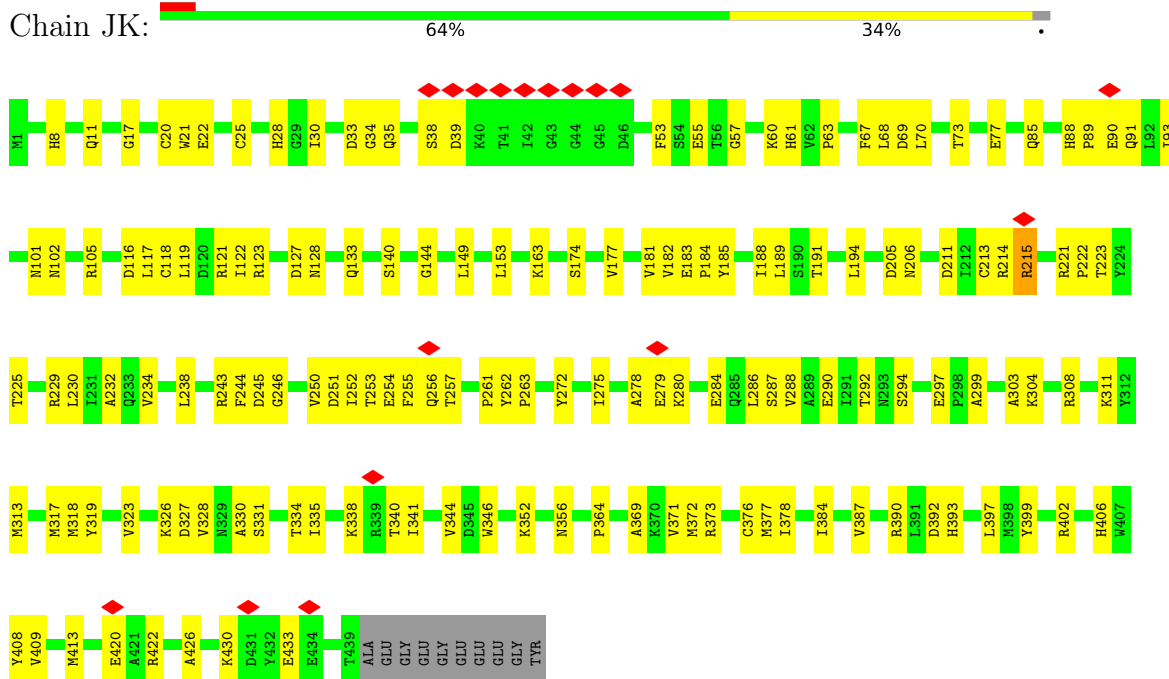




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GLU  
GLY  
TYR

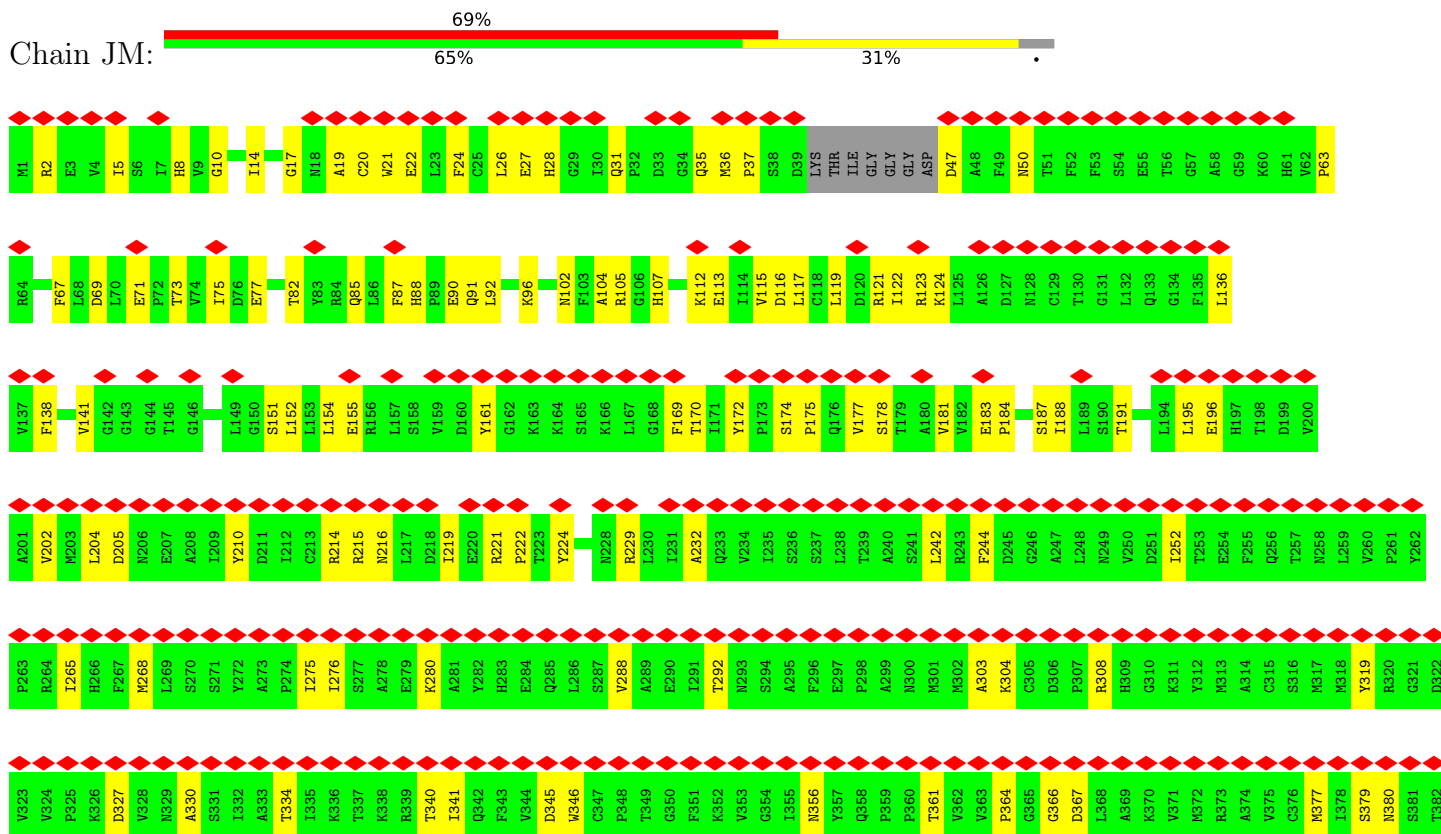
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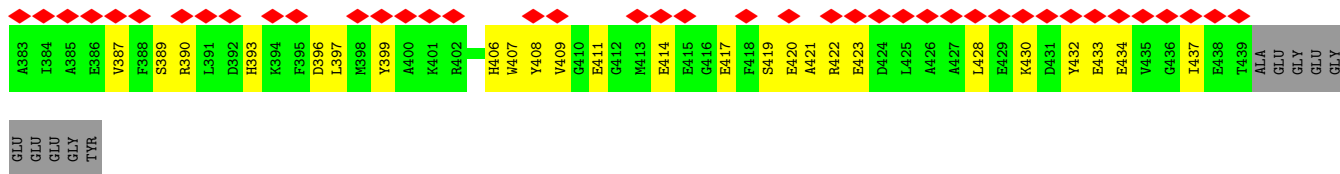
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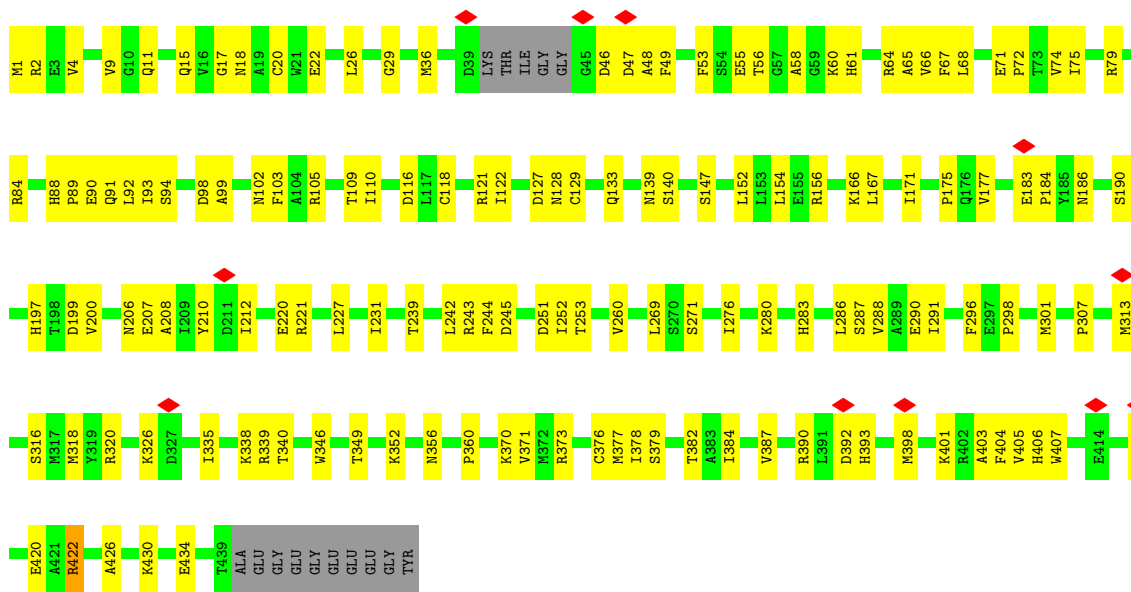
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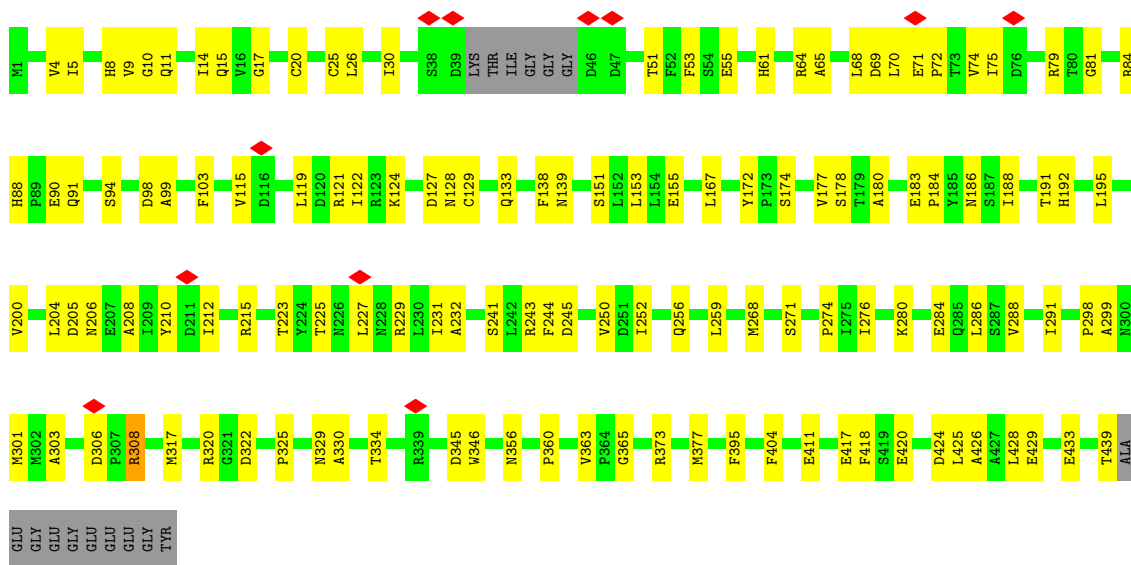




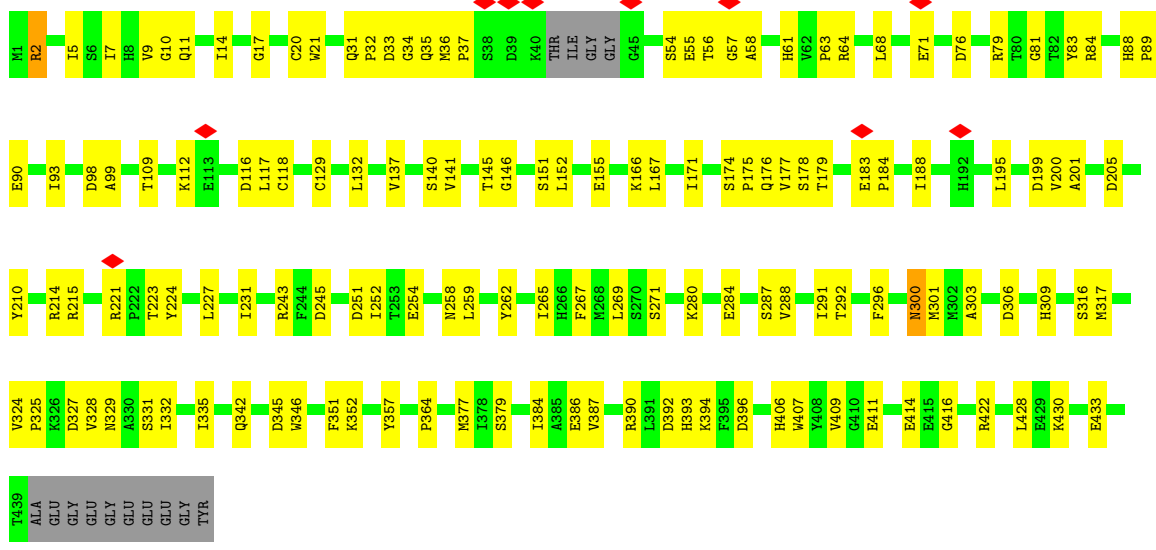
• Molecule 45: Tubulin alpha chain



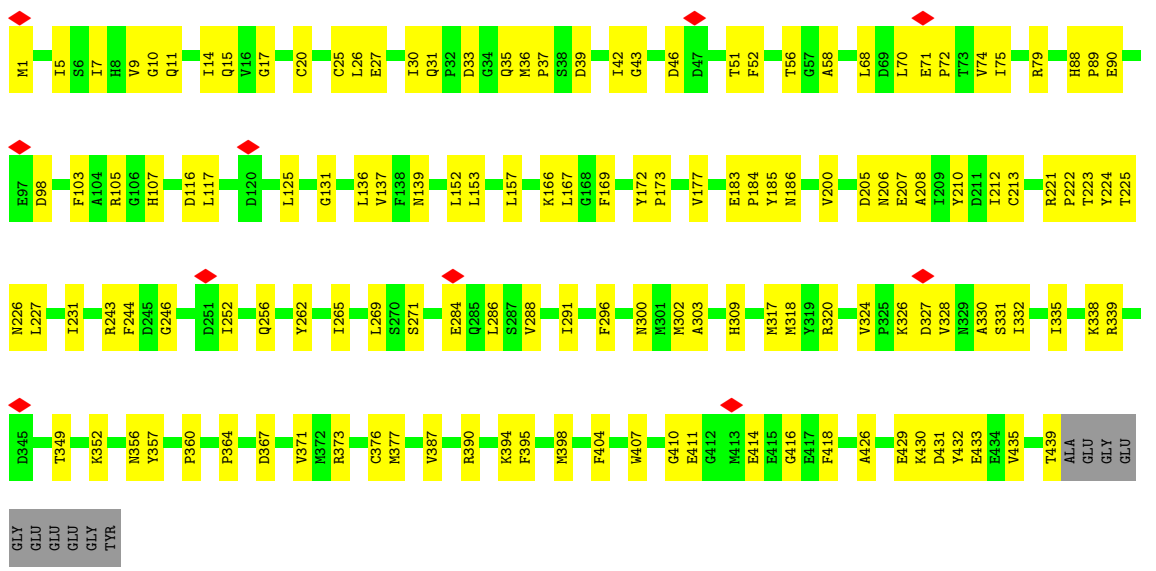
• Molecule 45: Tubulin alpha chain



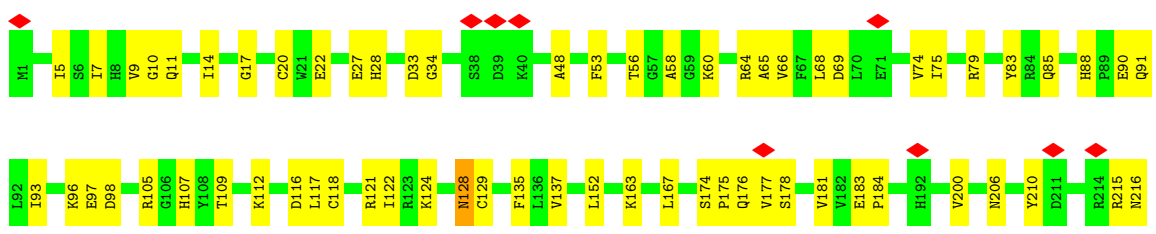
• Molecule 45: Tubulin alpha chain

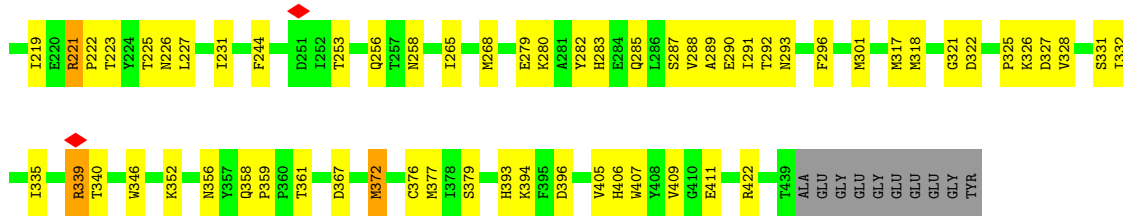


• Molecule 45: Tubulin alpha chain

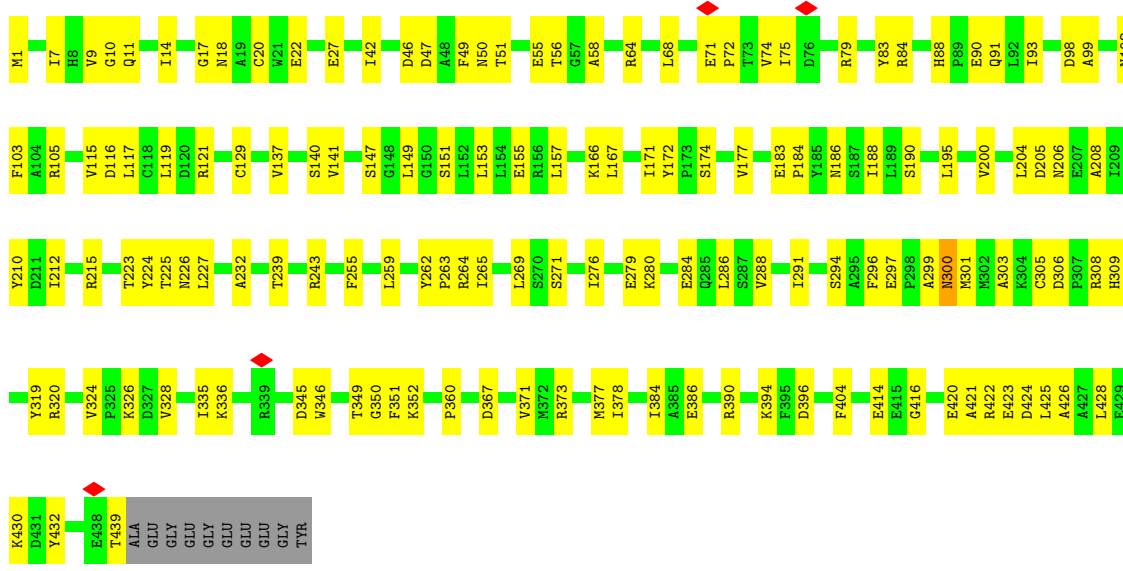


• Molecule 45: Tubulin alpha chain

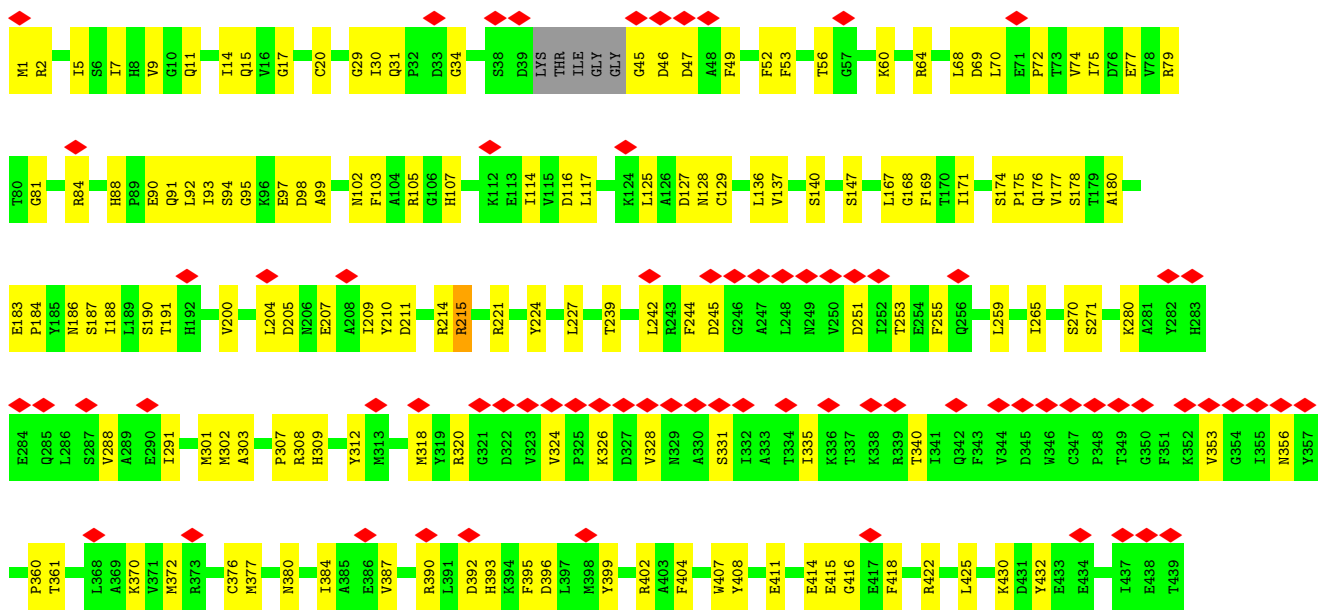




• Molecule 45: Tubulin alpha chain



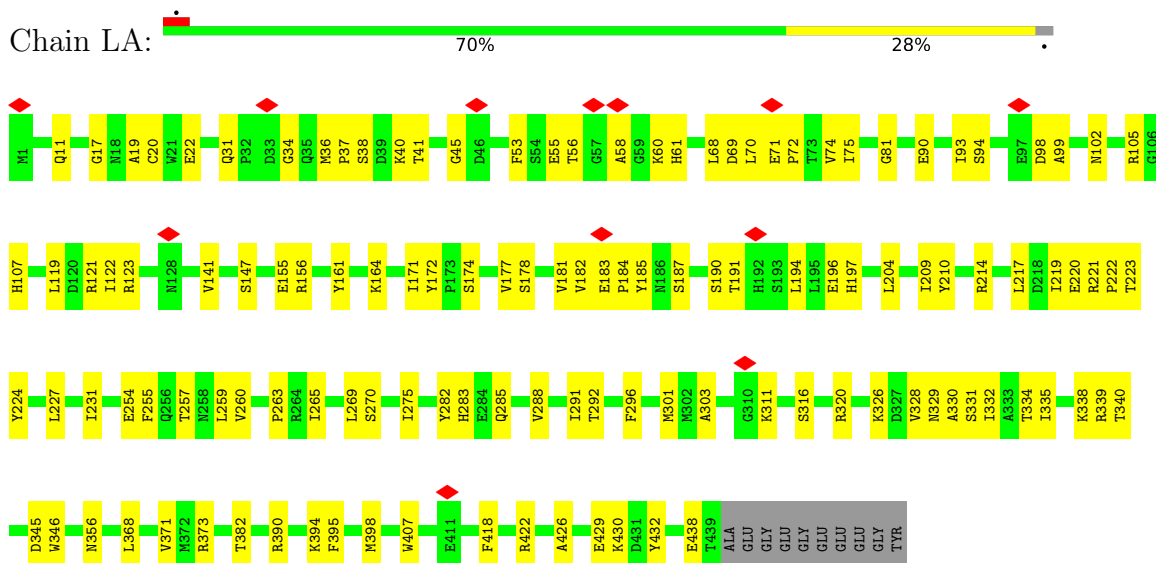
• Molecule 45: Tubulin alpha chain



ALA  
GLU  
GLY  
GLY  
GLY  
GLY  
GLY  
GLY  
GLY  
TYR

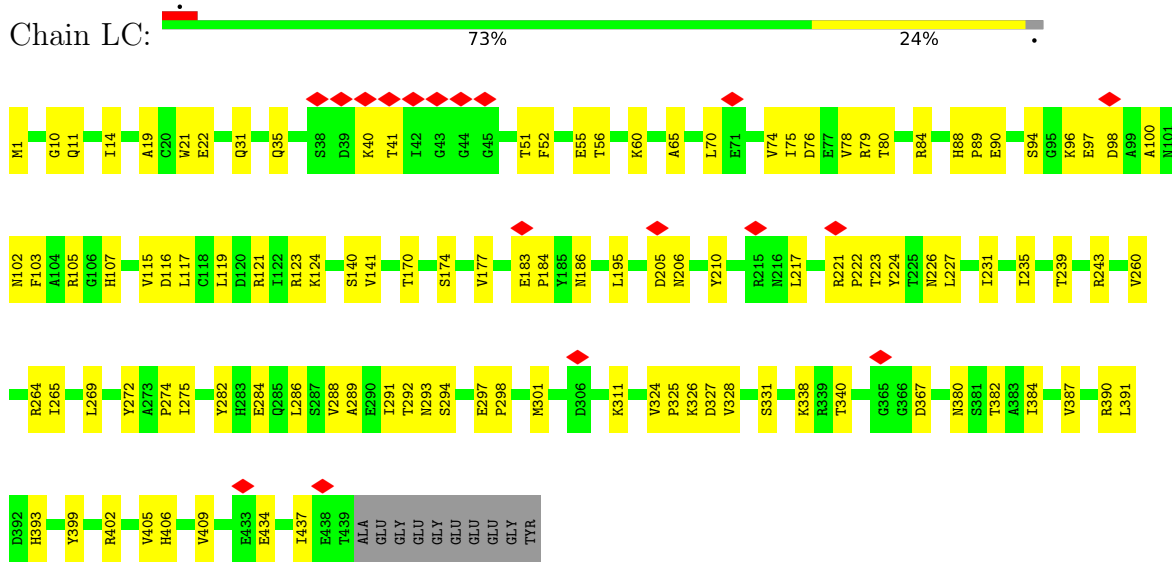
• Molecule 45: Tubulin alpha chain

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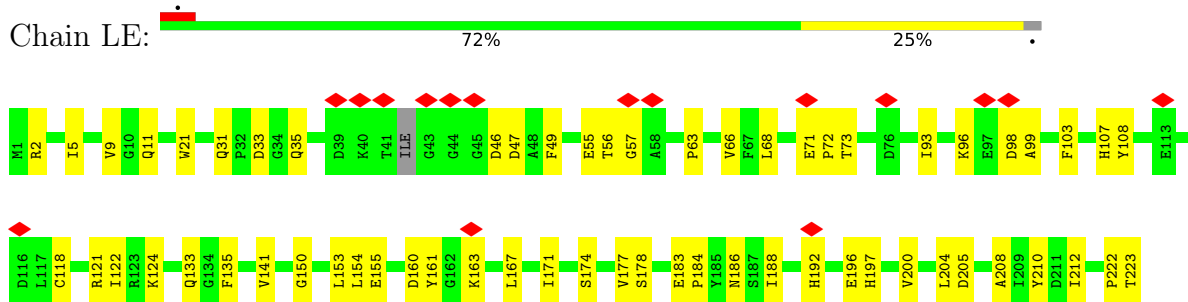
• Molecule 45: Tubulin alpha chain

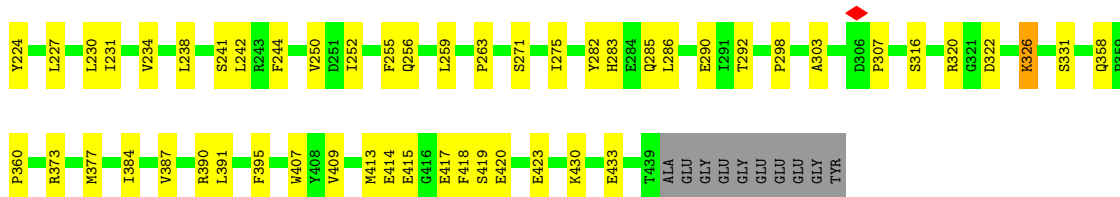
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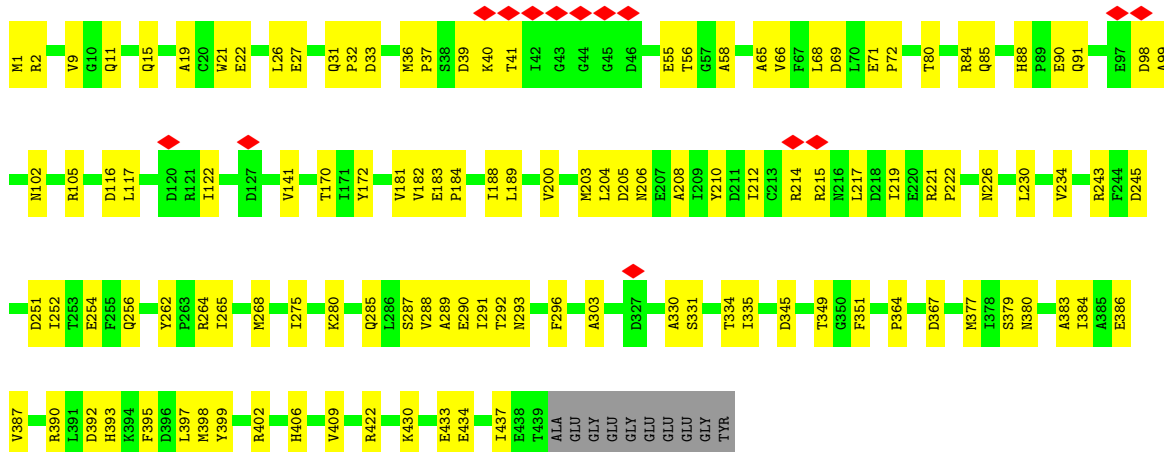
• Molecule 45: Tubulin alpha chain

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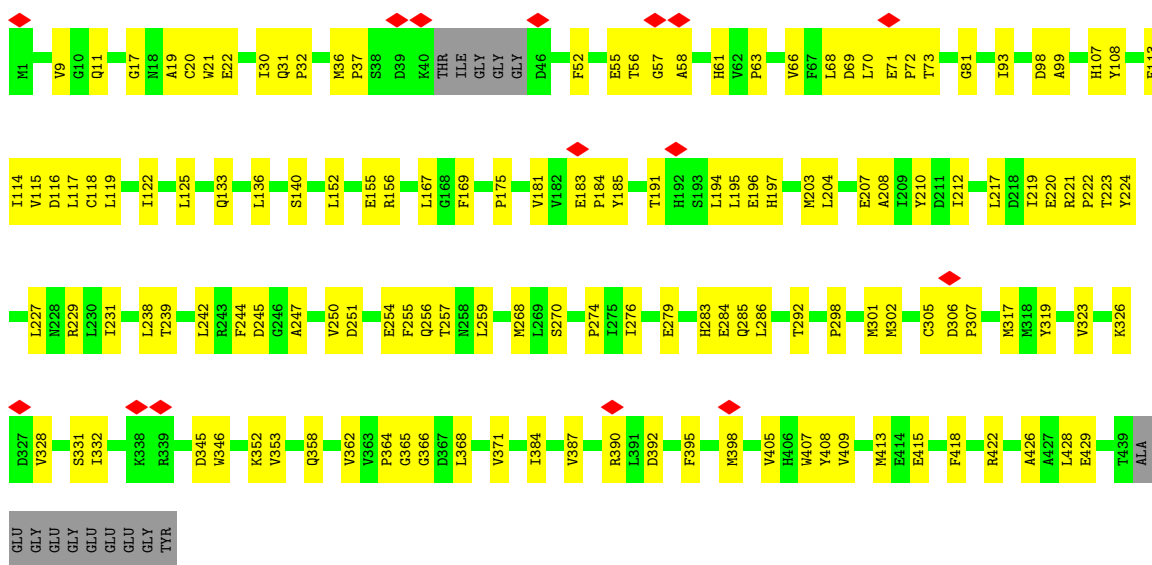




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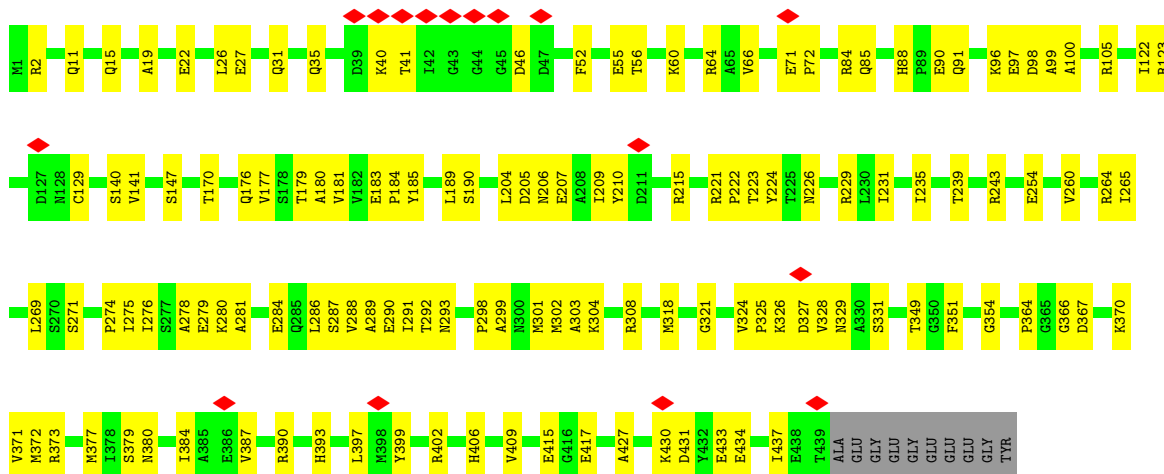


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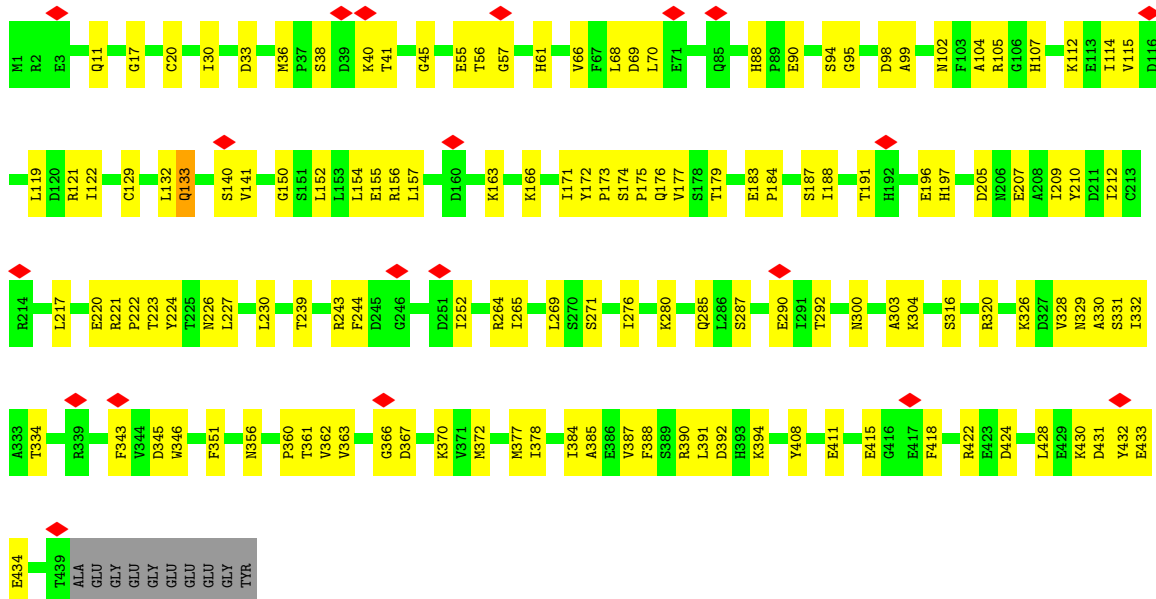


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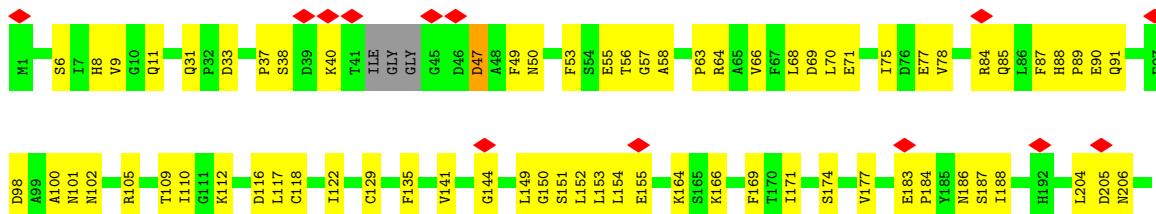


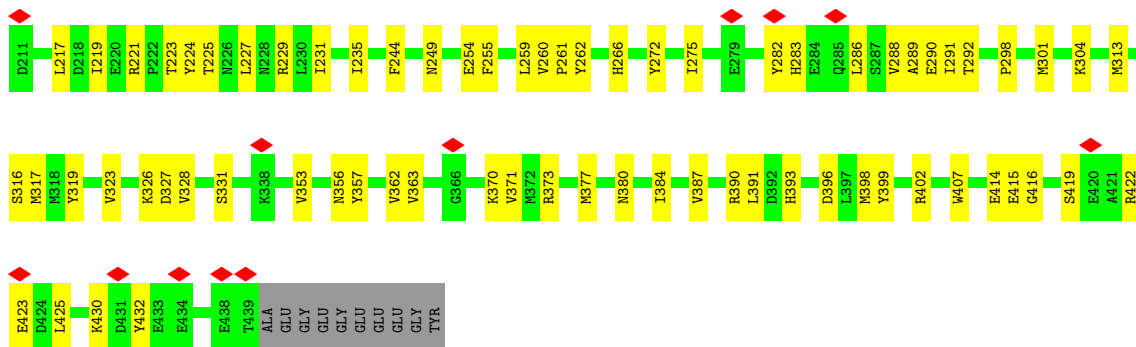


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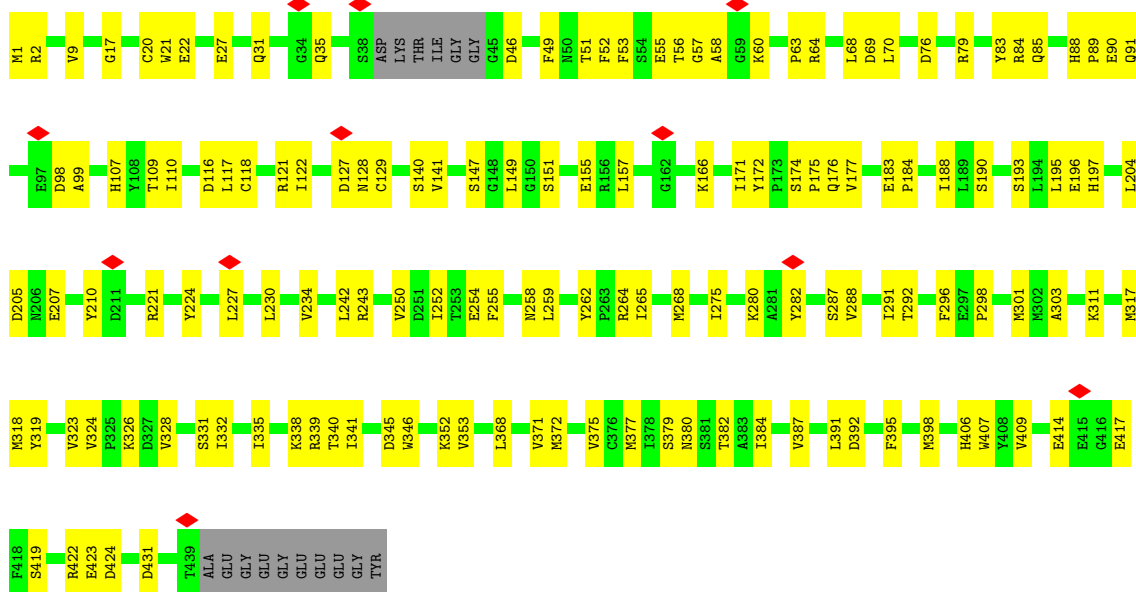


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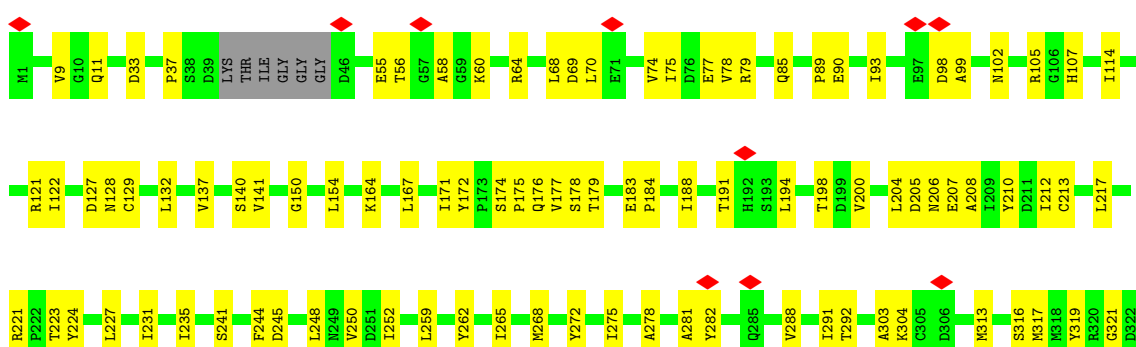




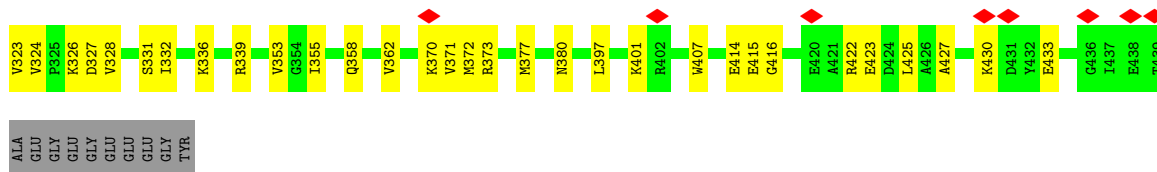
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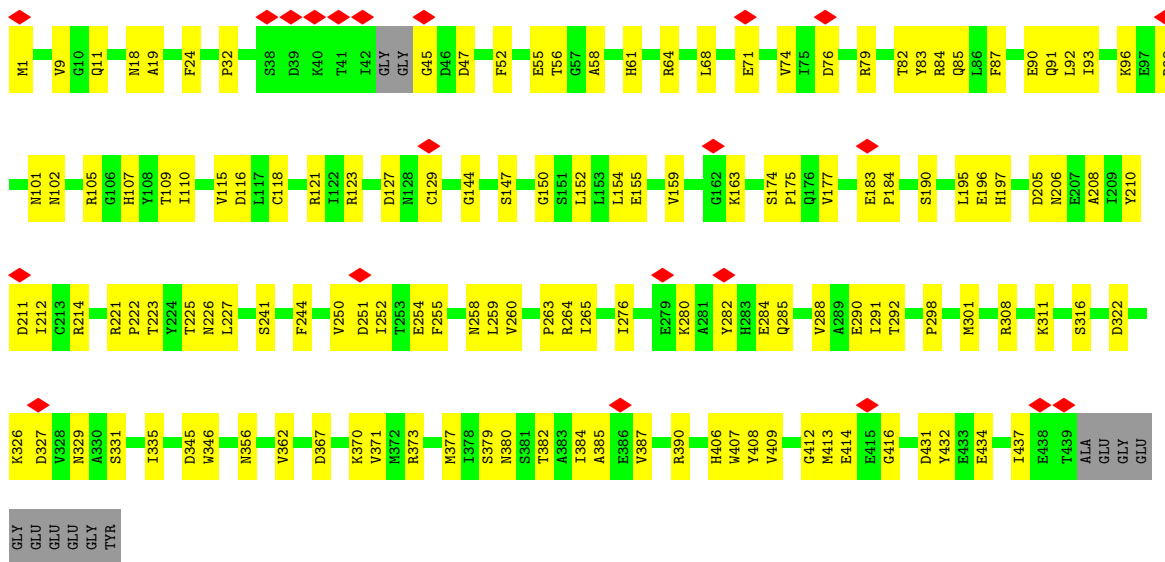
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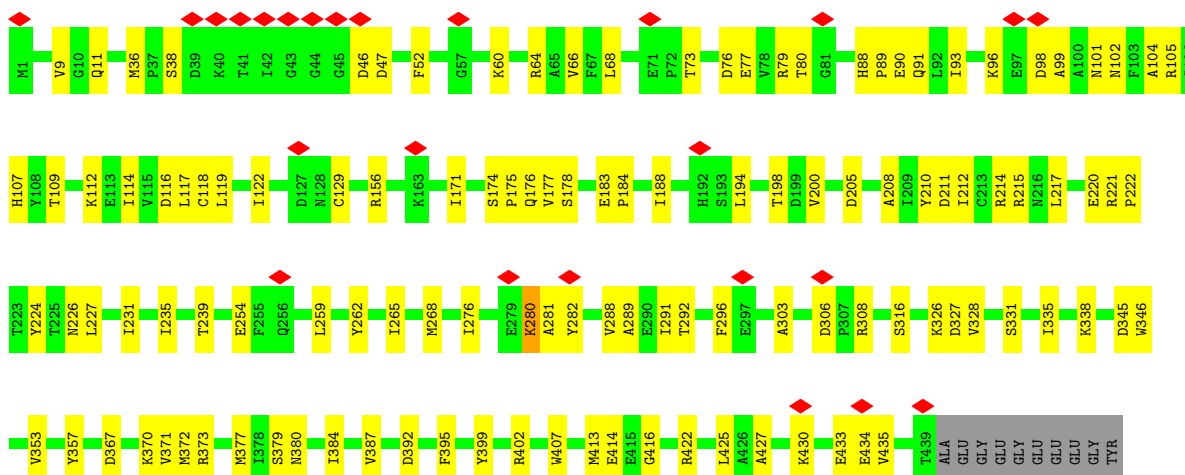




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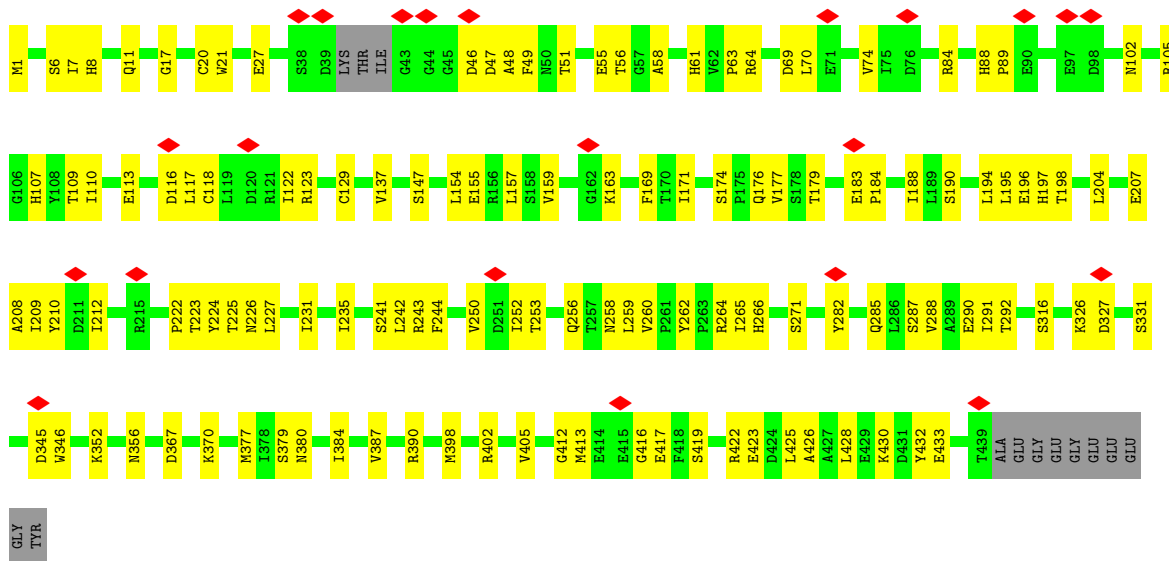


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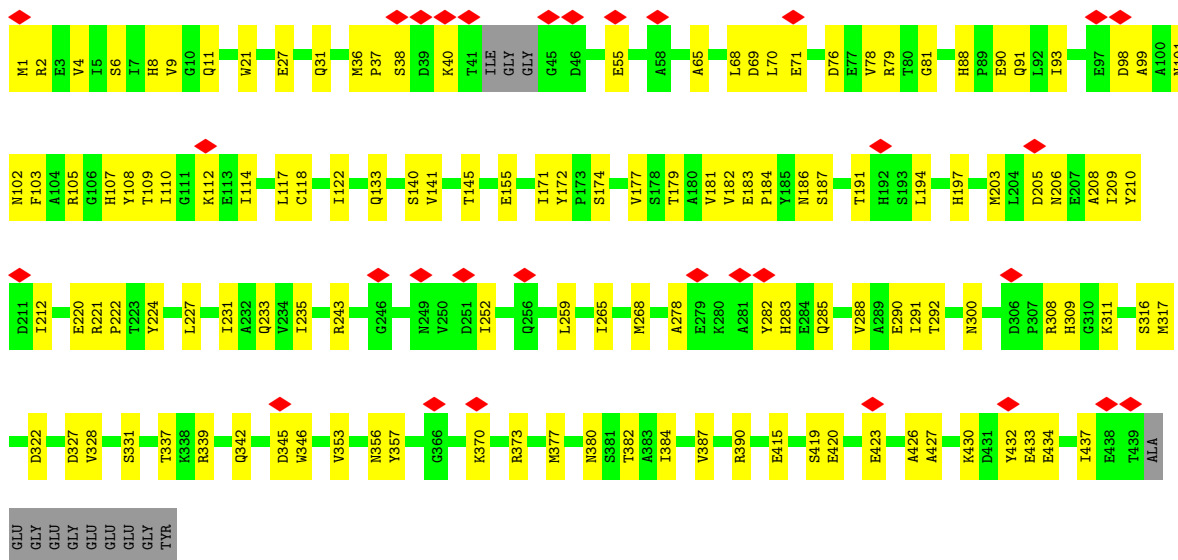
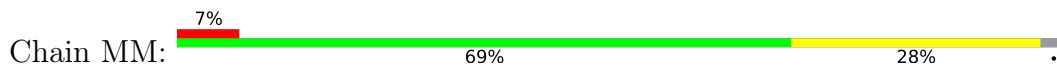


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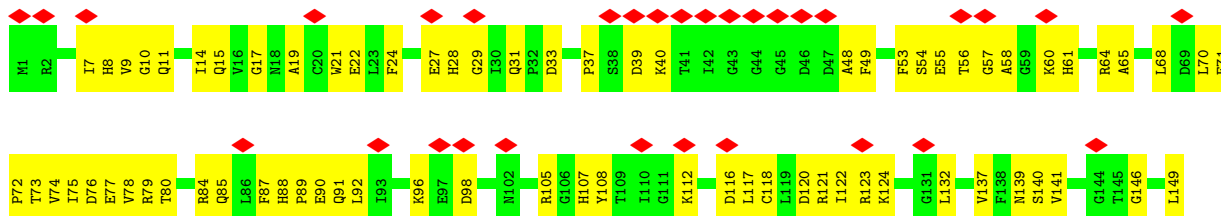


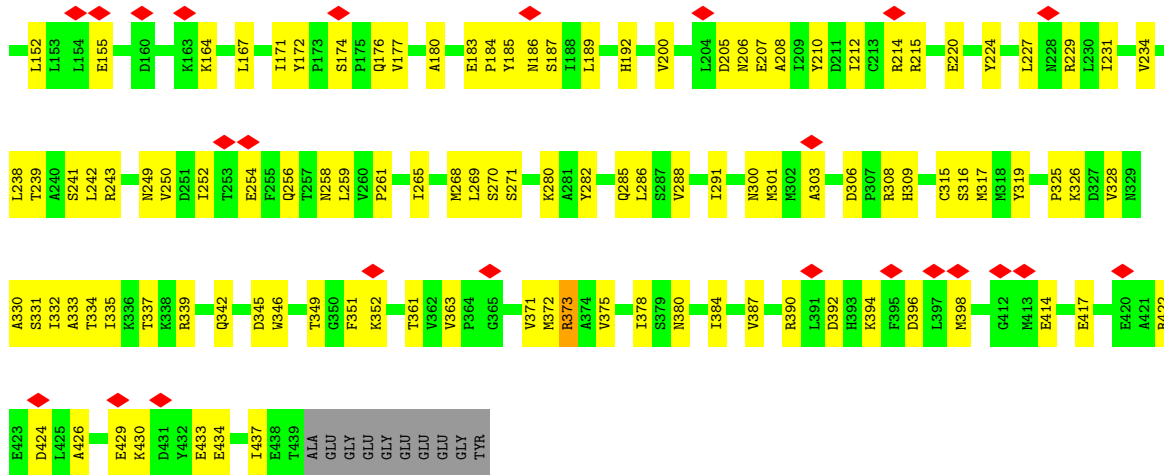


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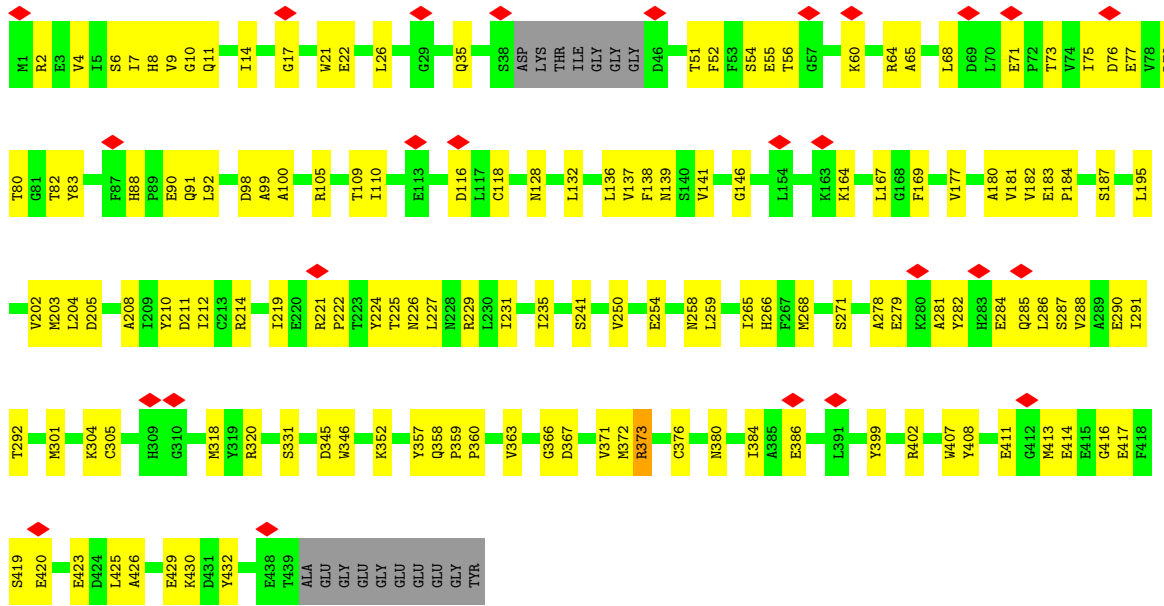


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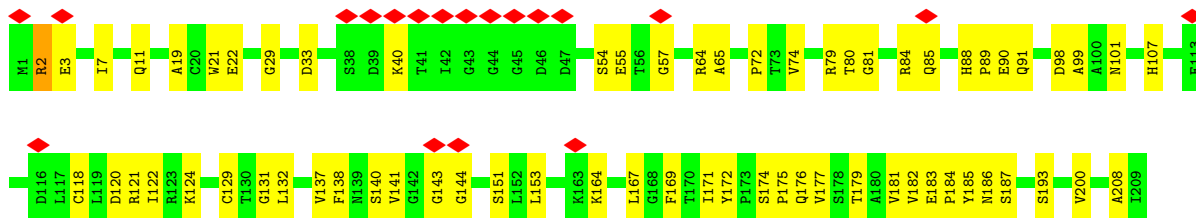


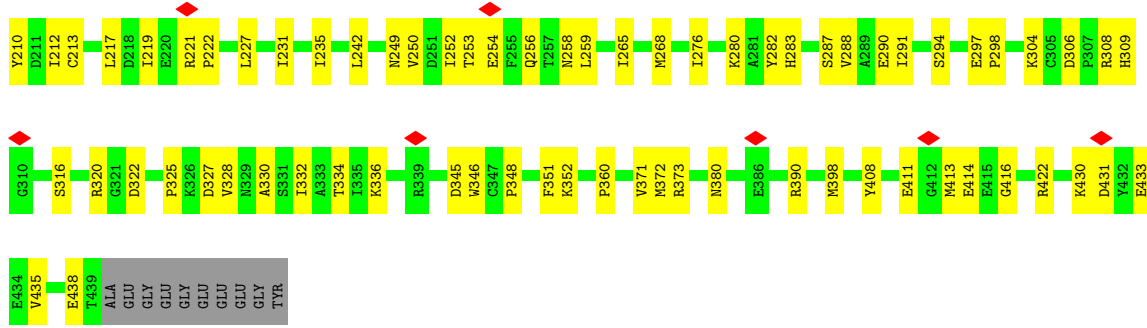


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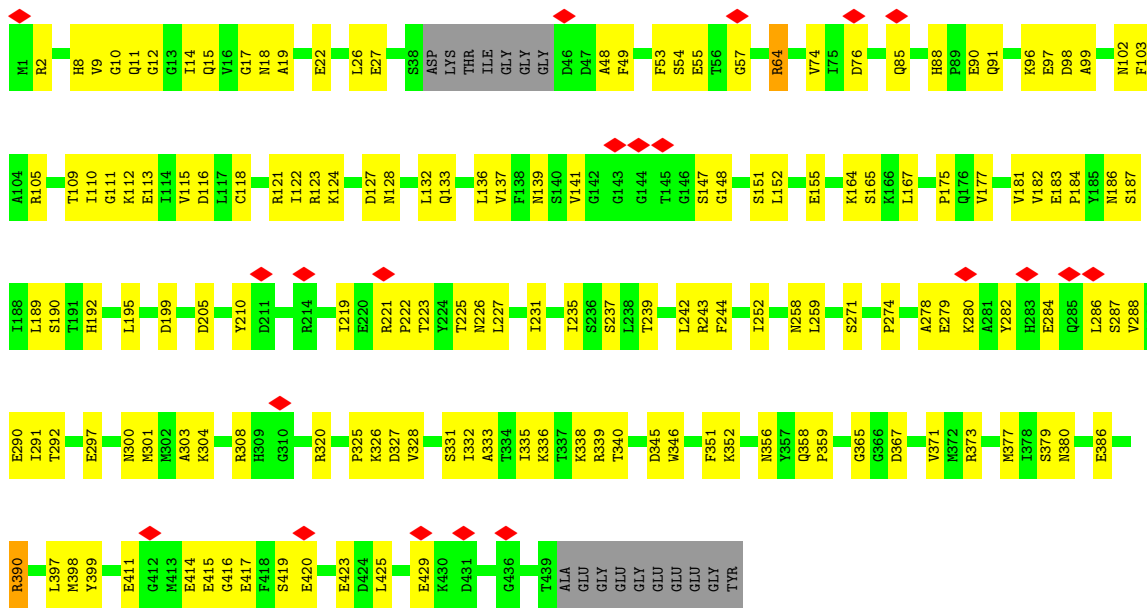


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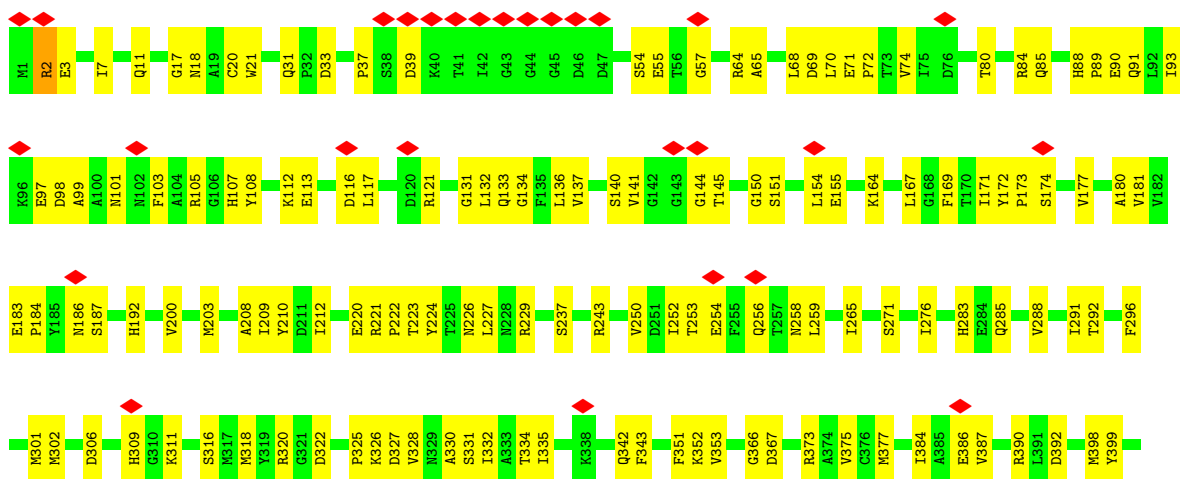




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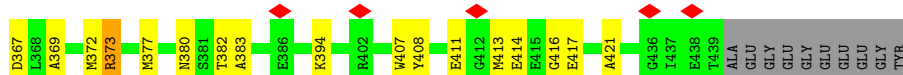
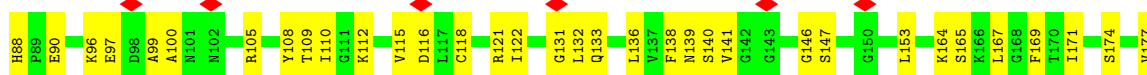
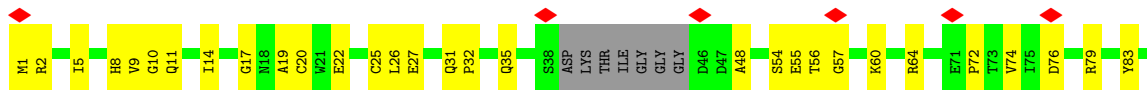


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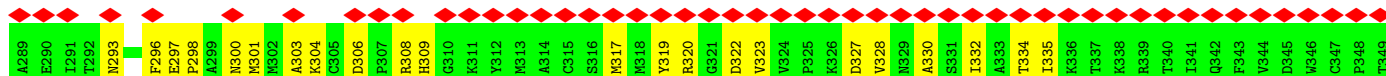
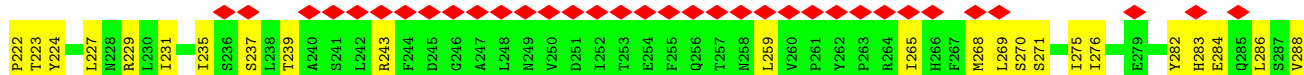


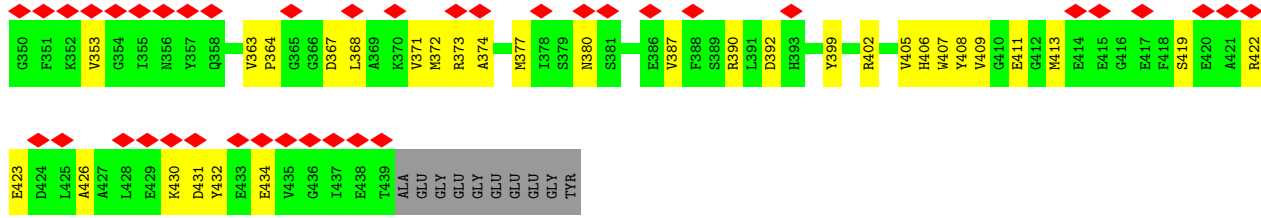


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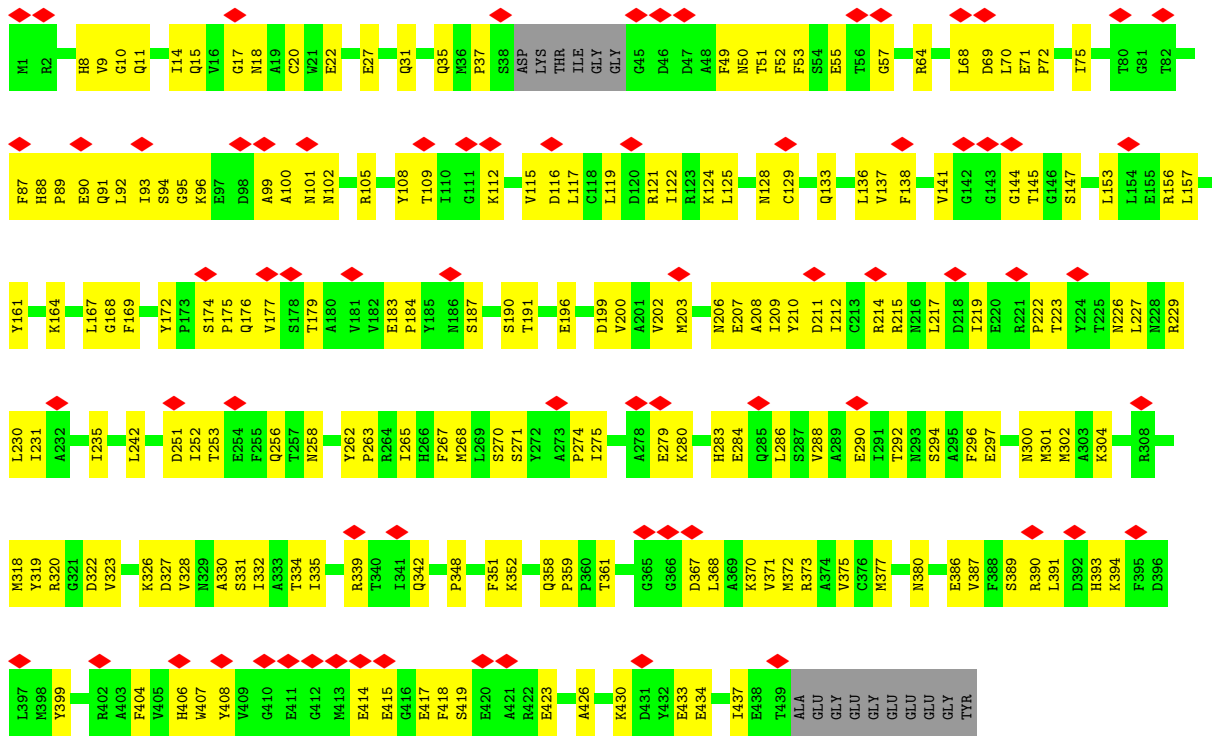


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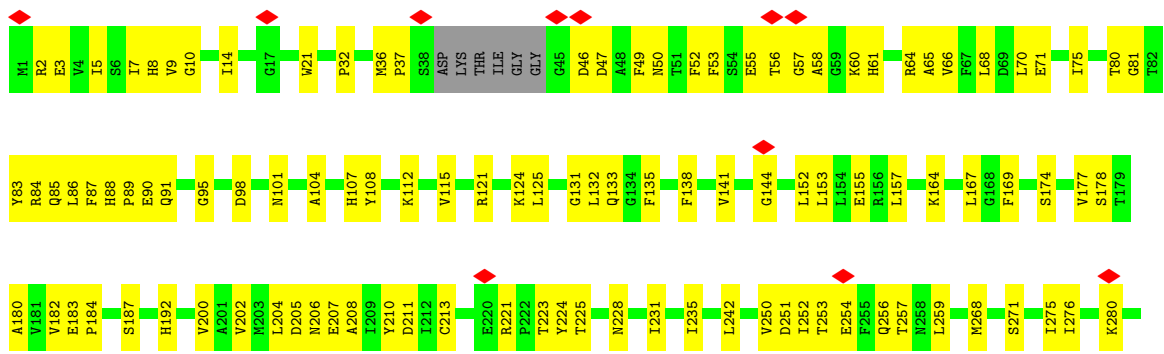


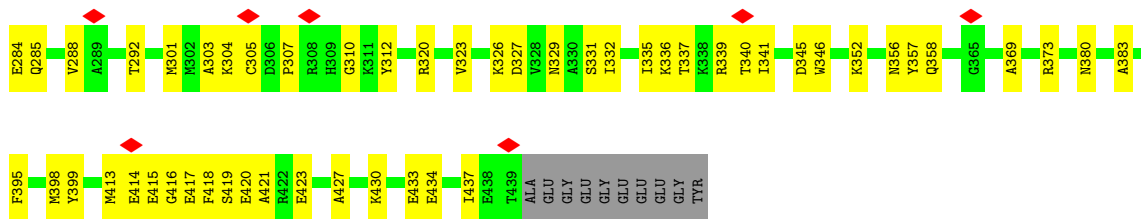


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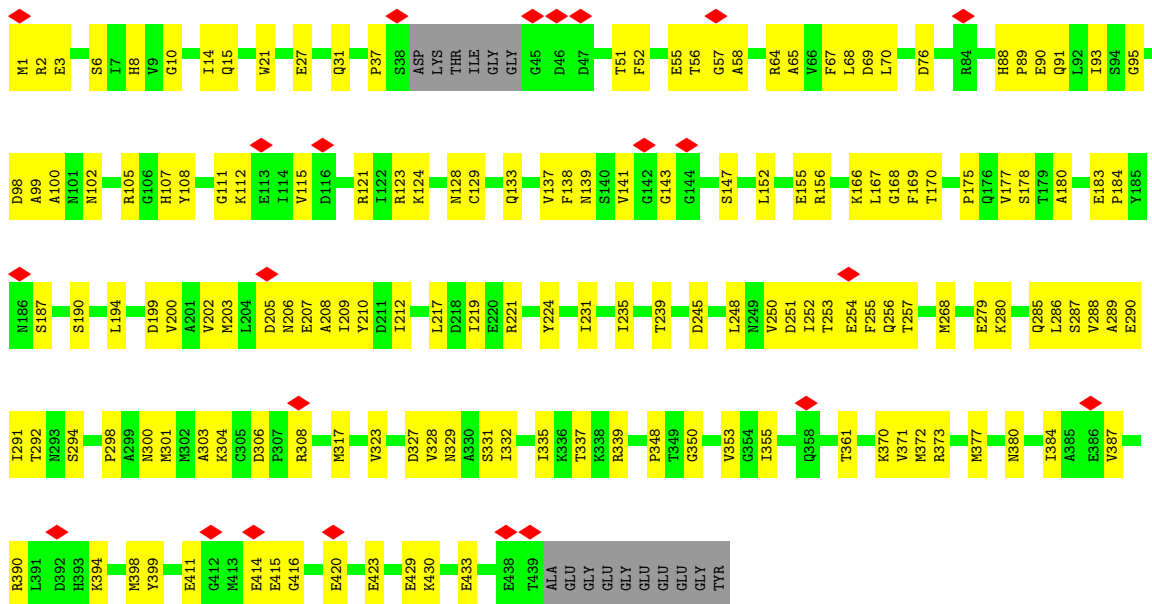


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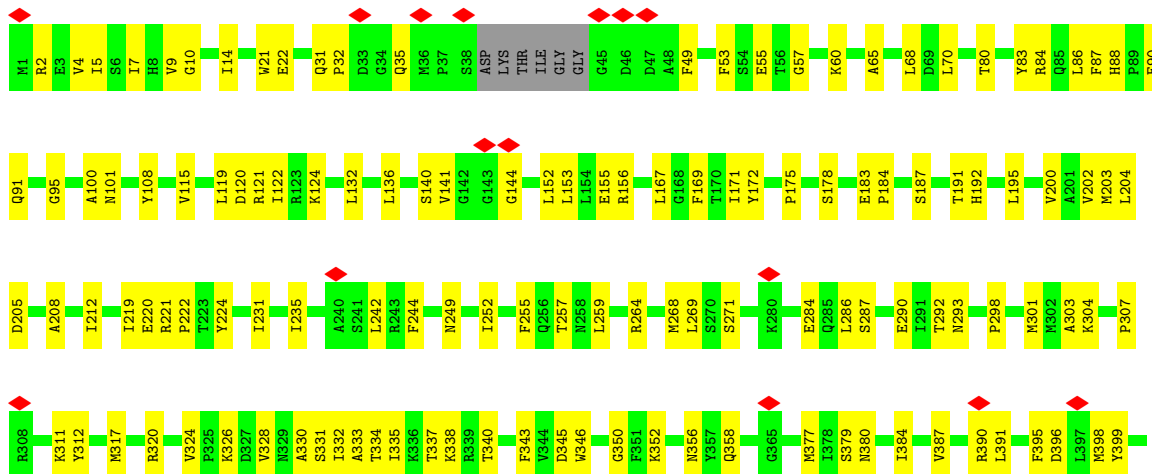


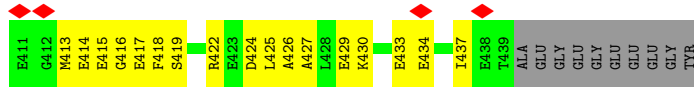


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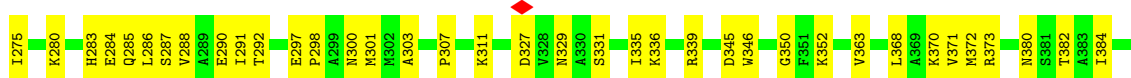
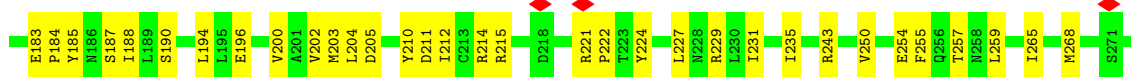
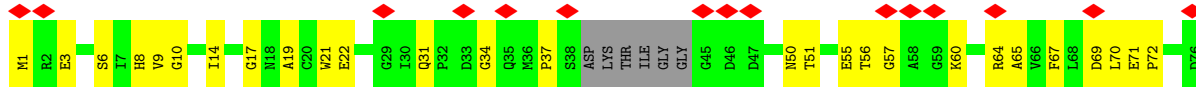


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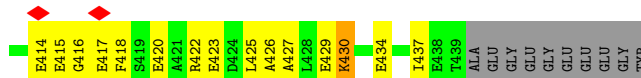
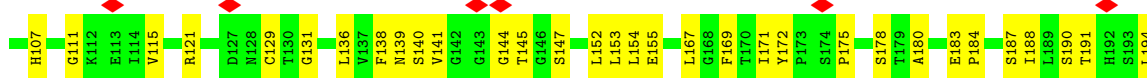
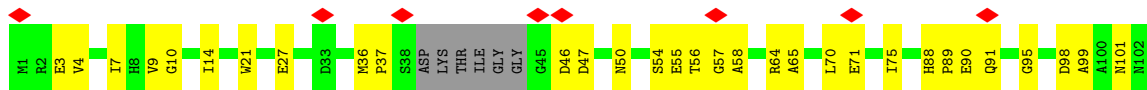




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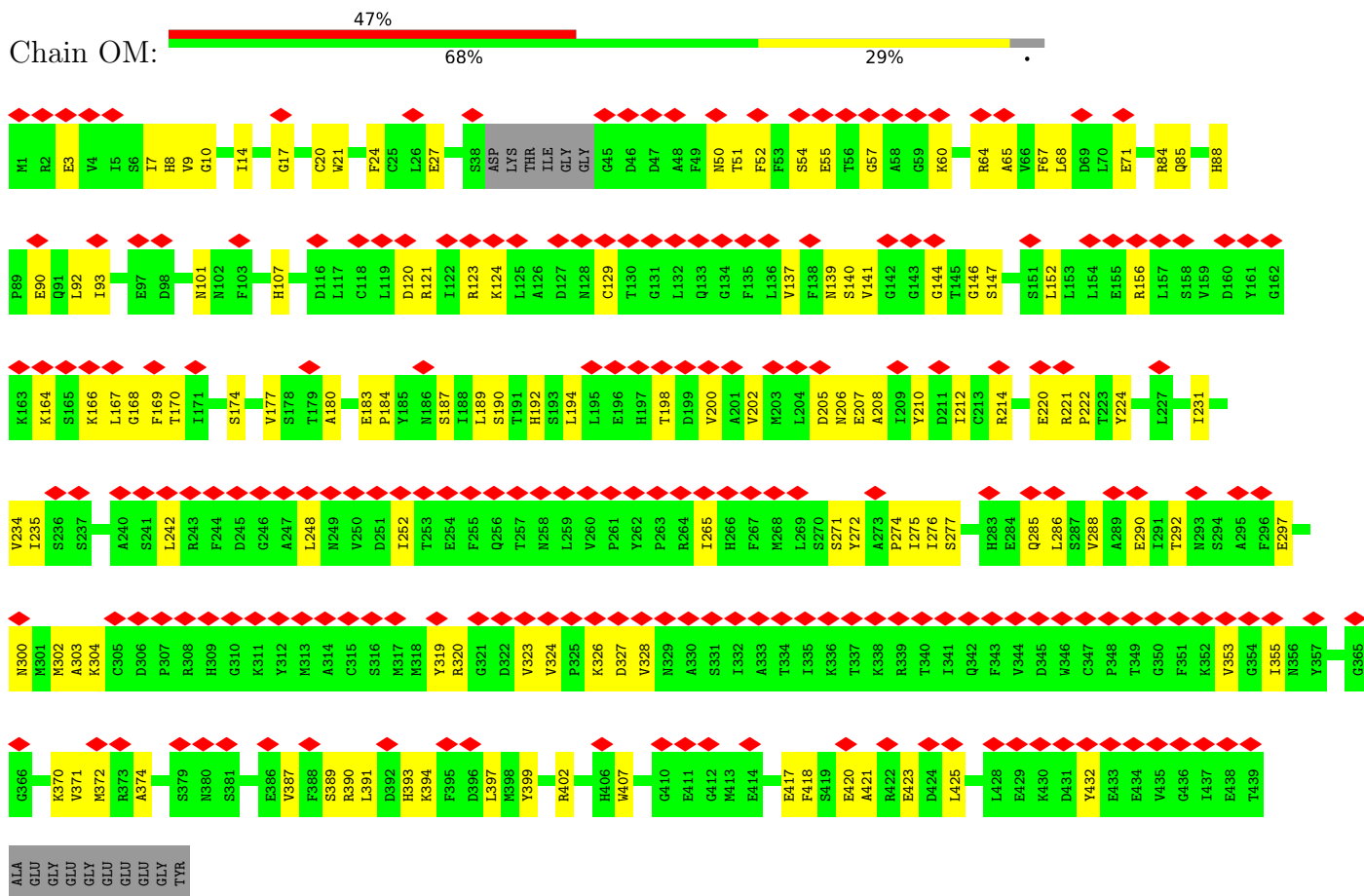


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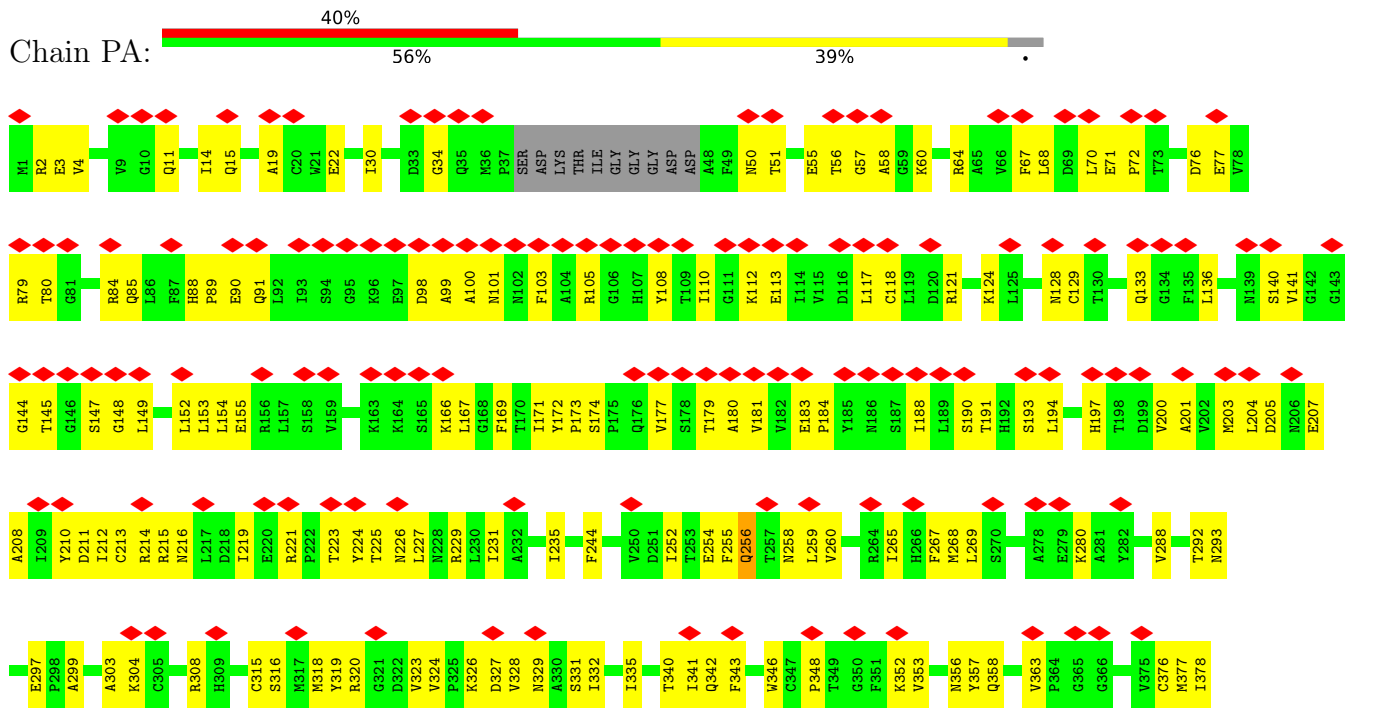


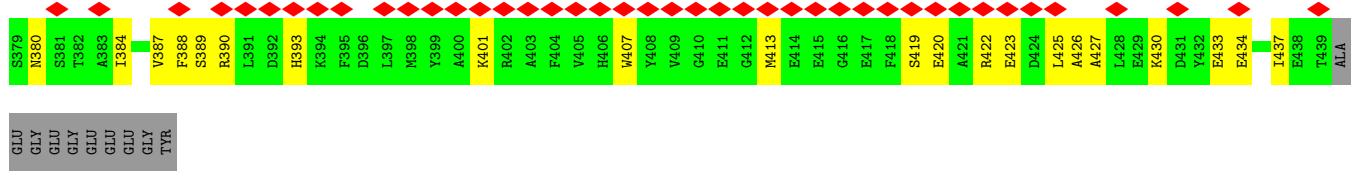
• Molecule 45: Tubulin alpha chain



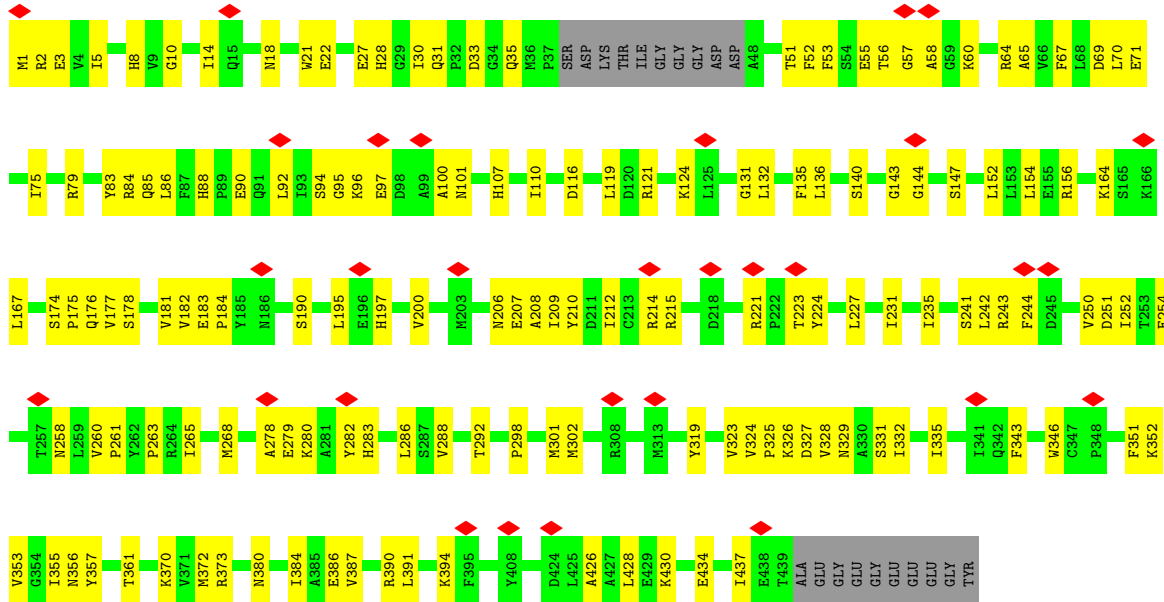


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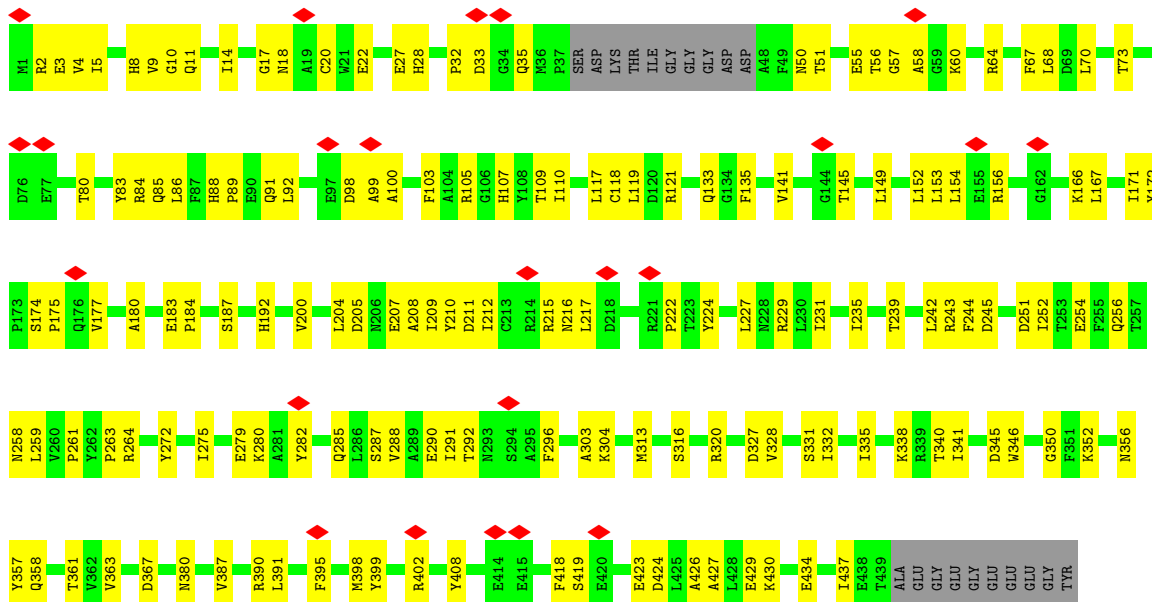




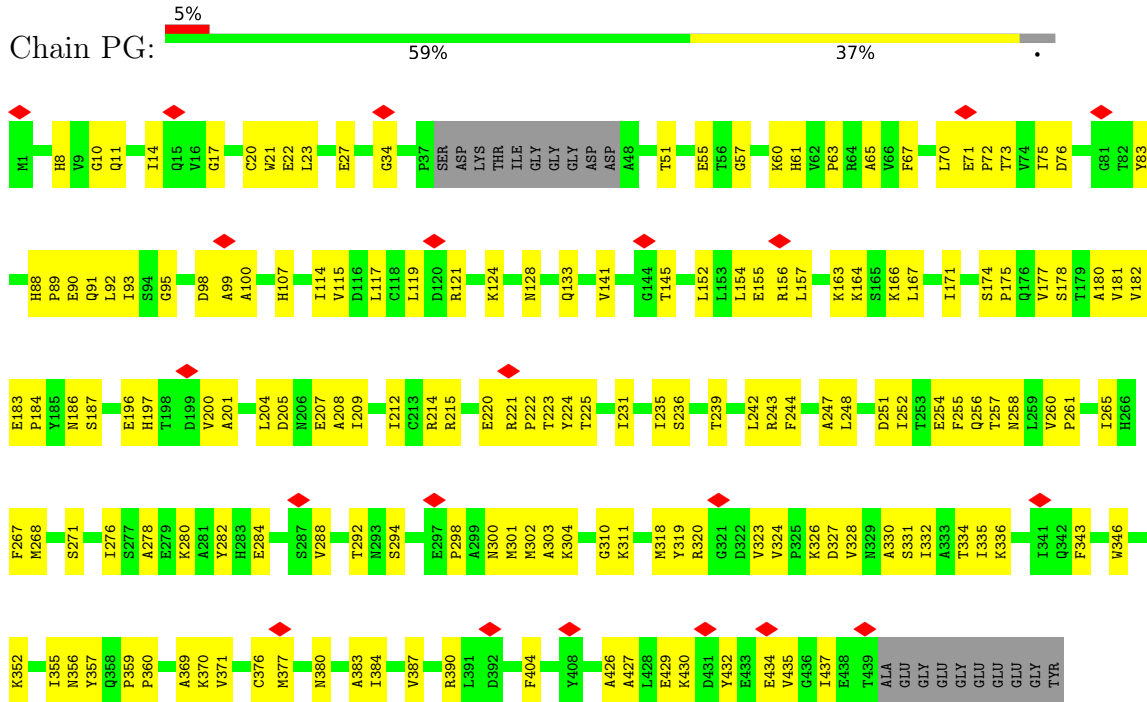
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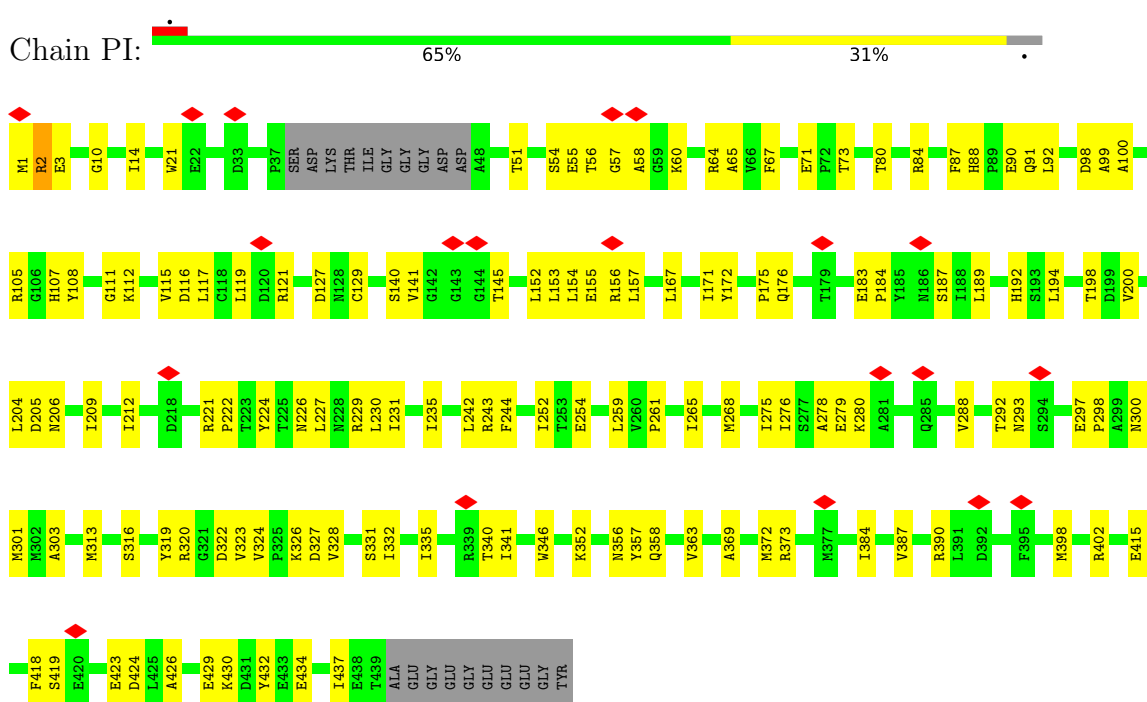
● Molecule 45: Tubulin alpha chain



• Molecule 45: Tubulin alpha chain

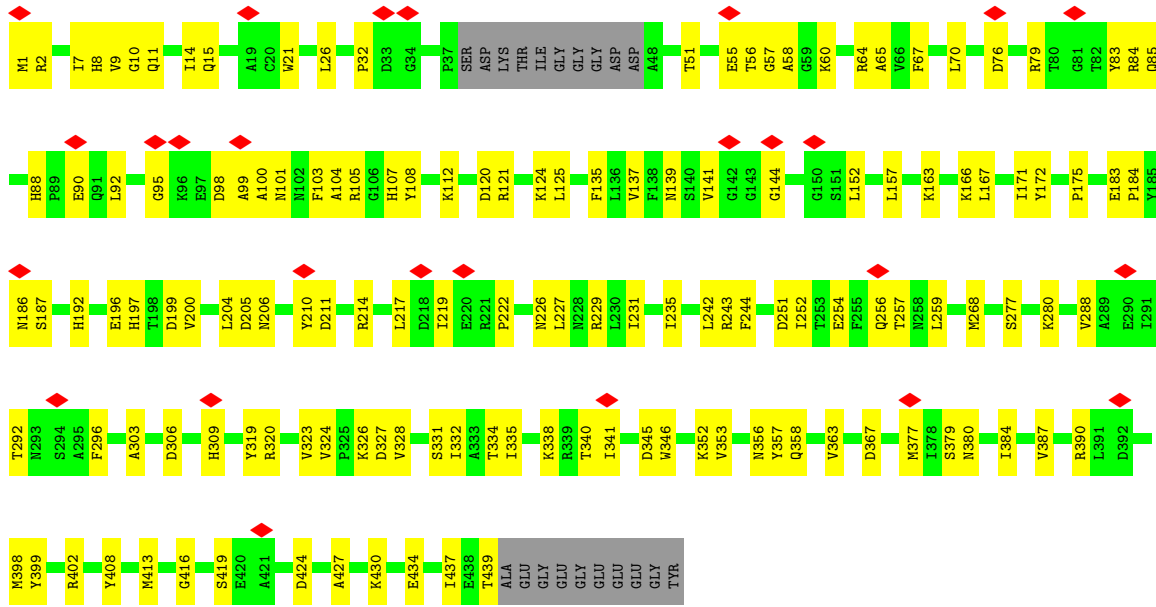


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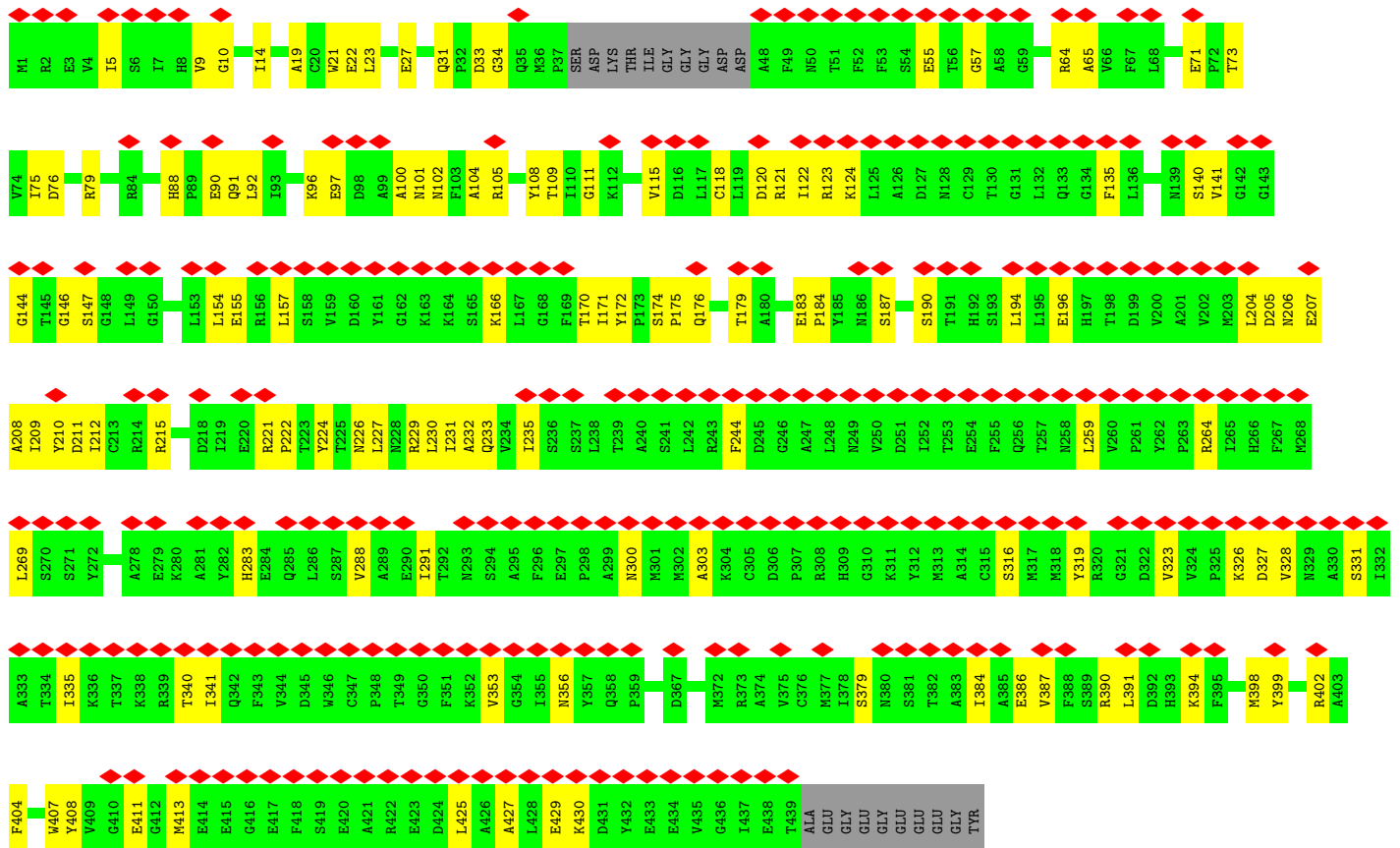


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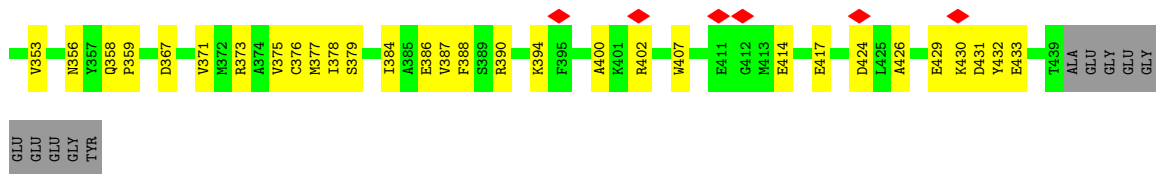


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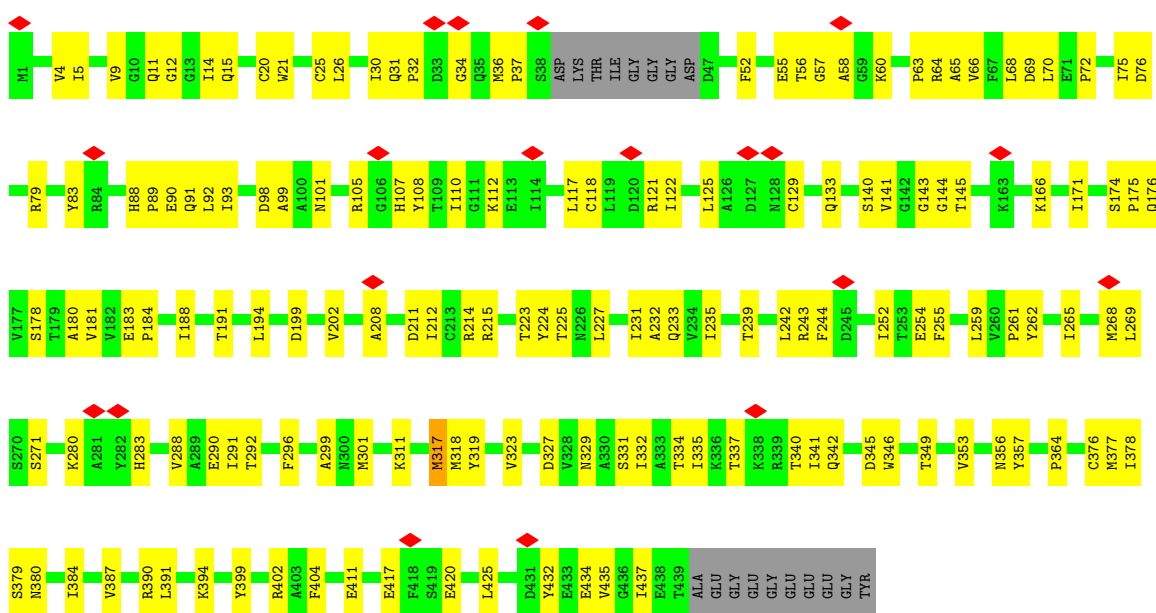


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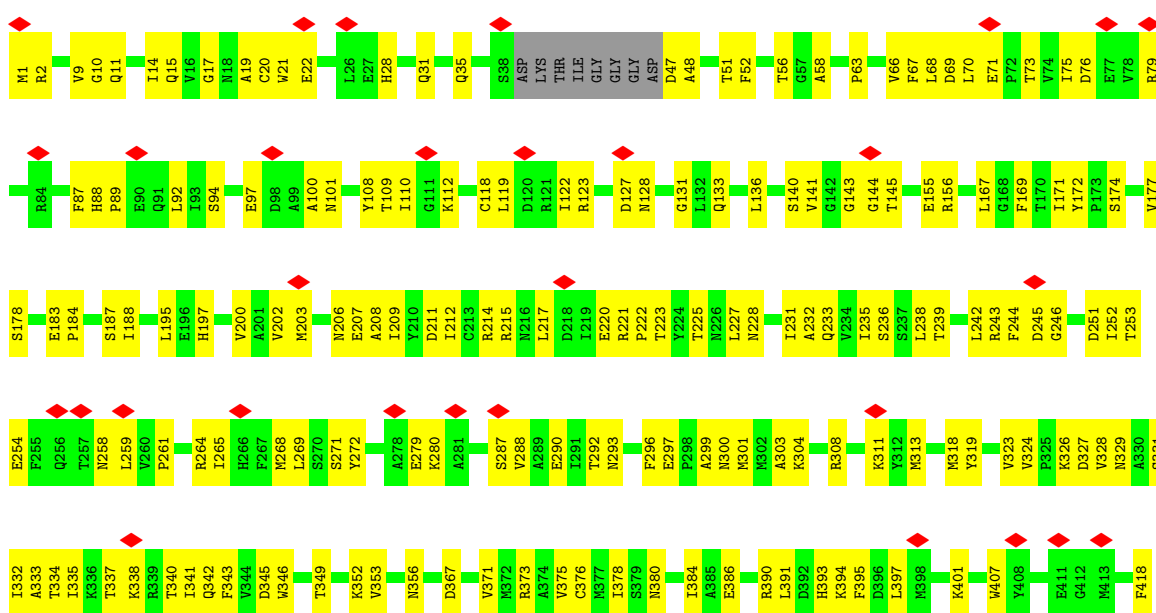


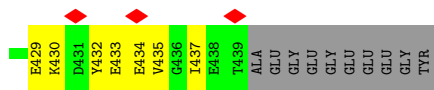


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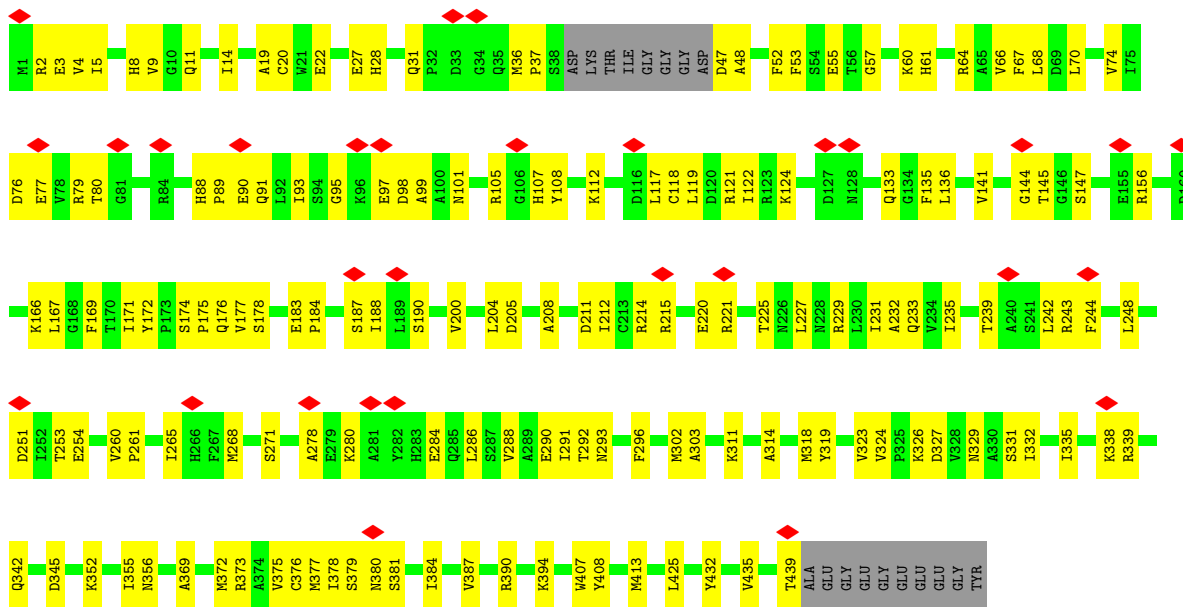


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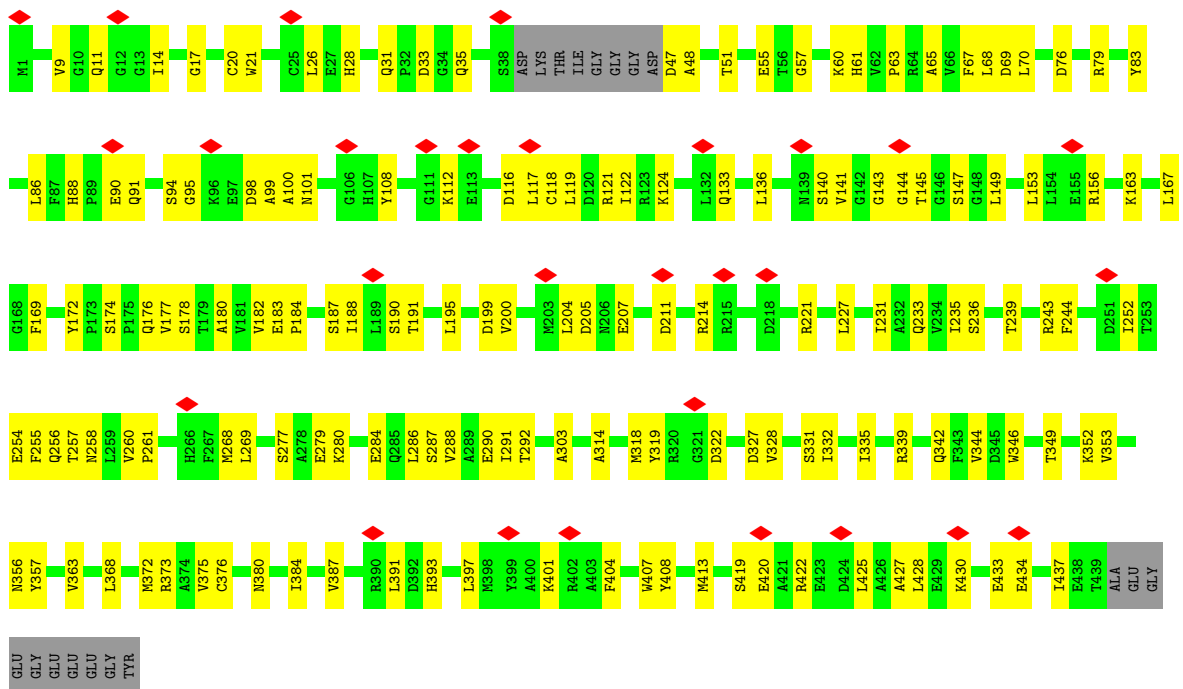




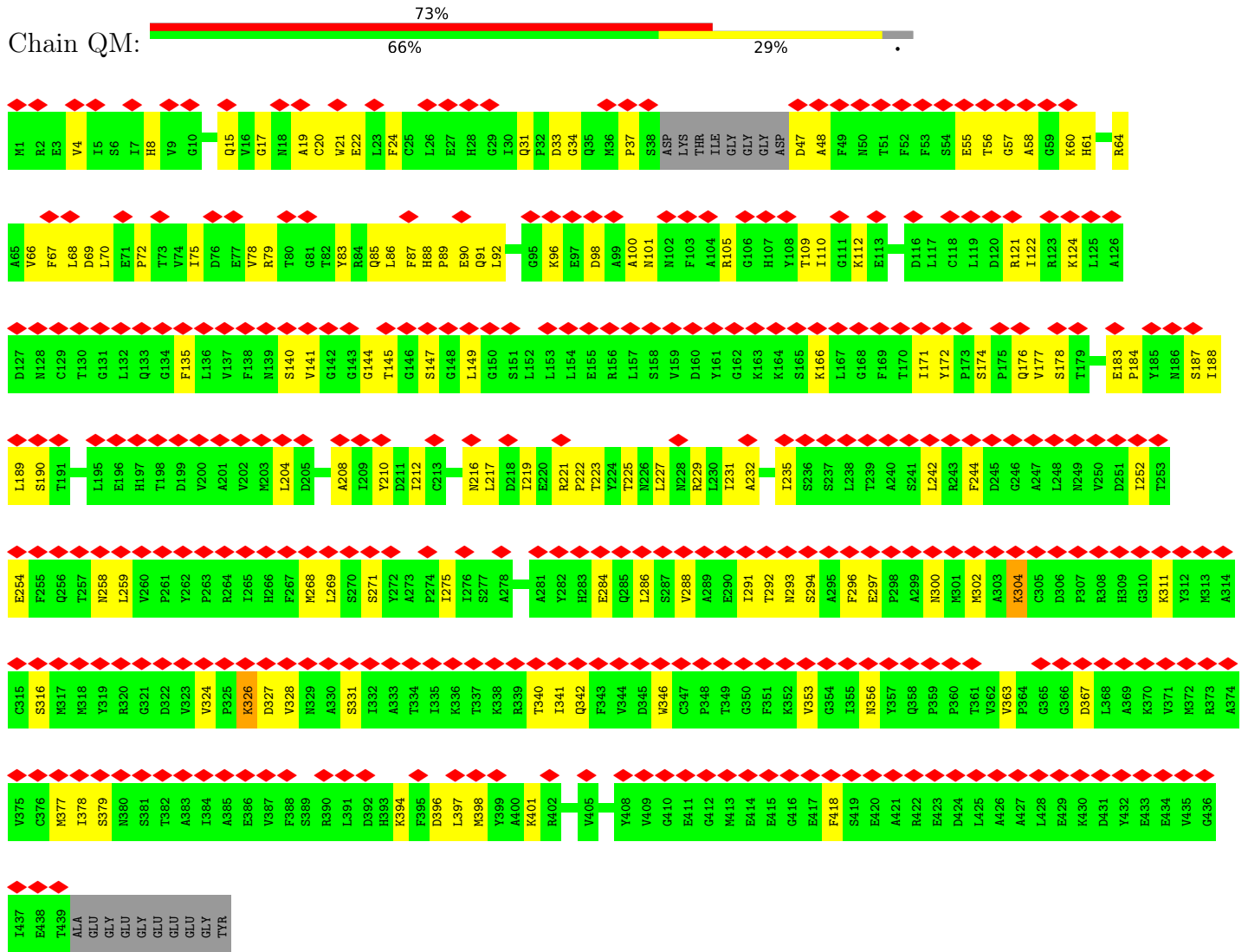
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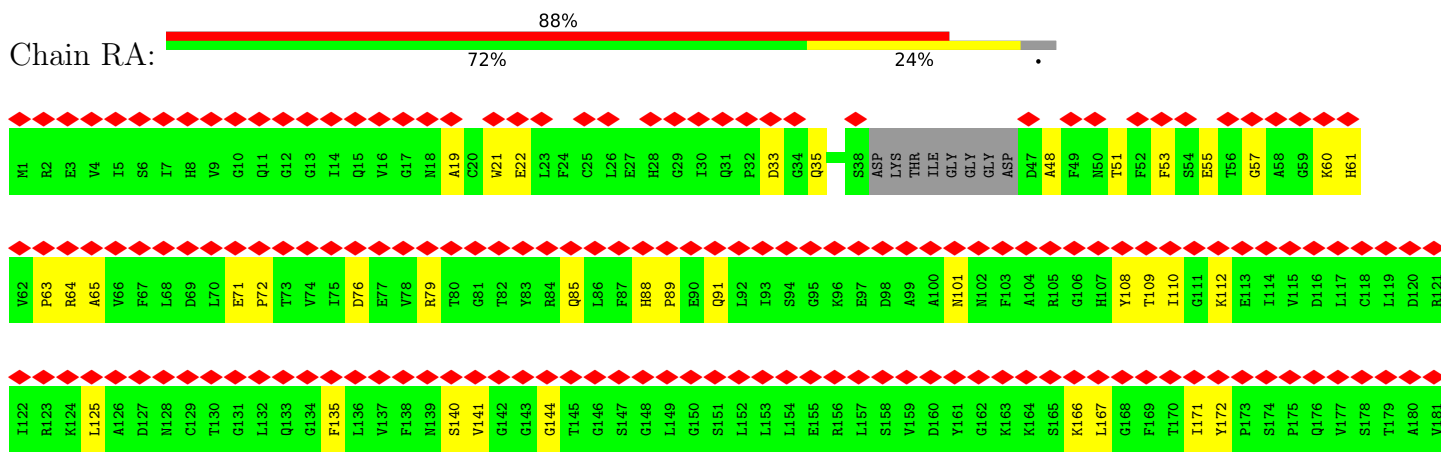
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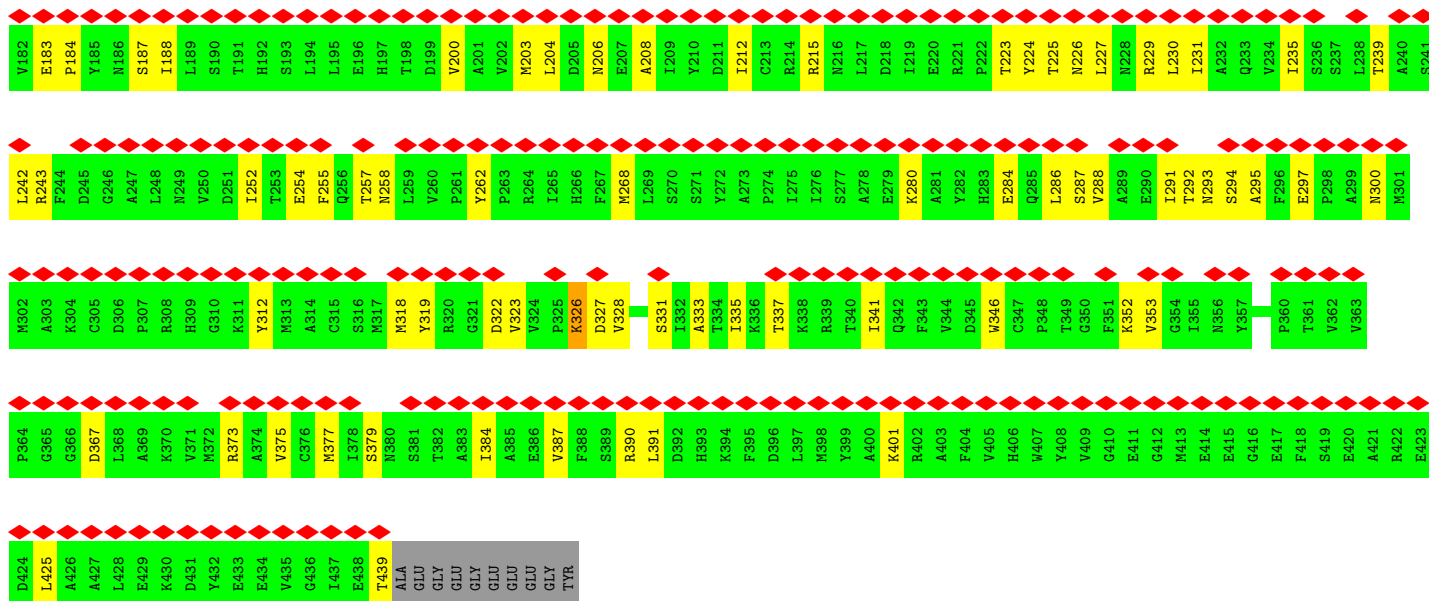
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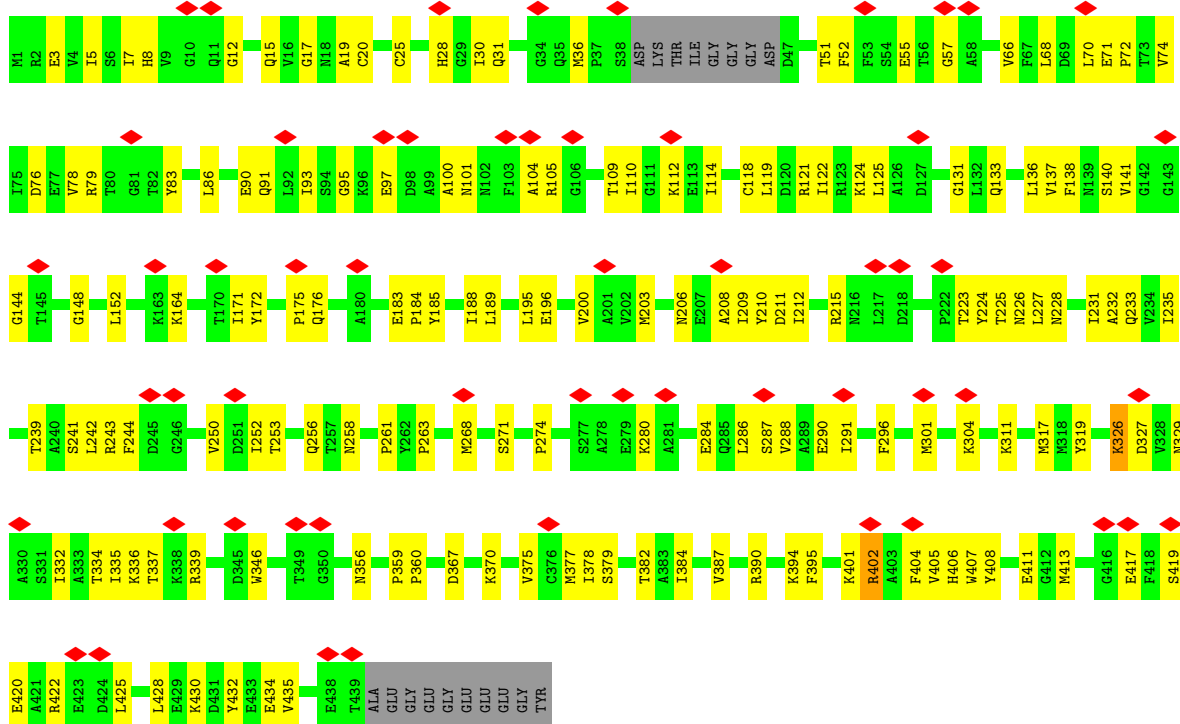
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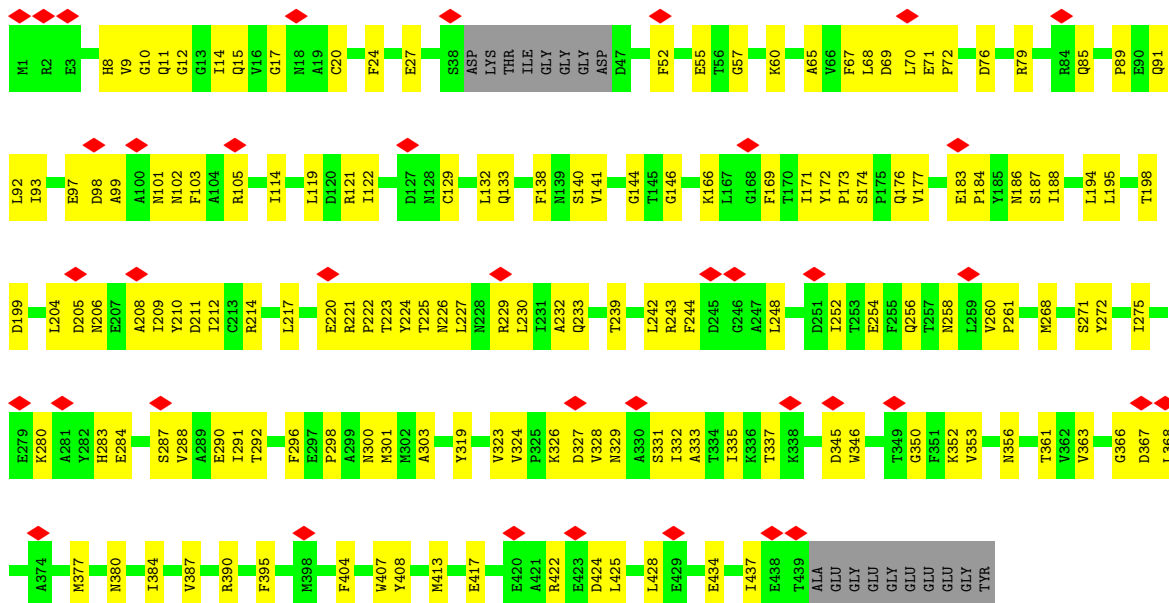


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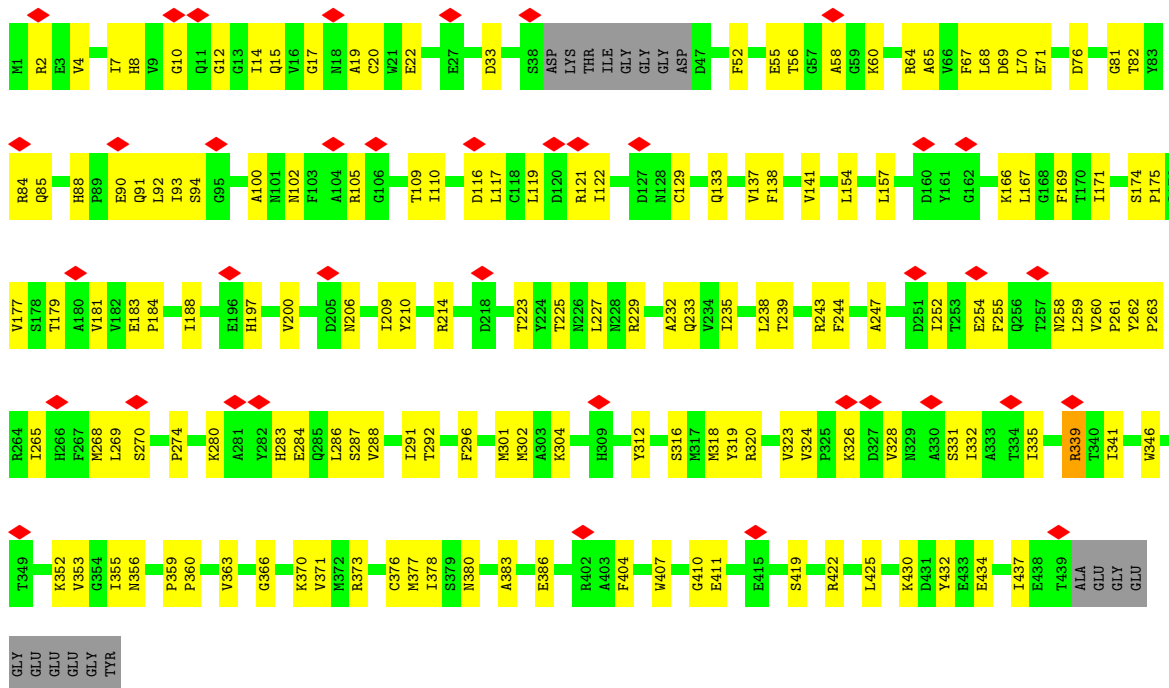


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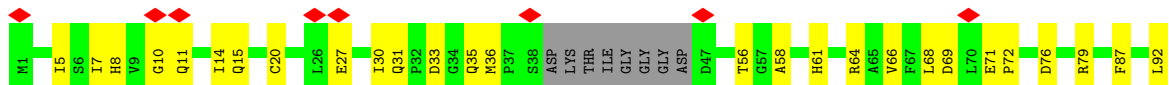


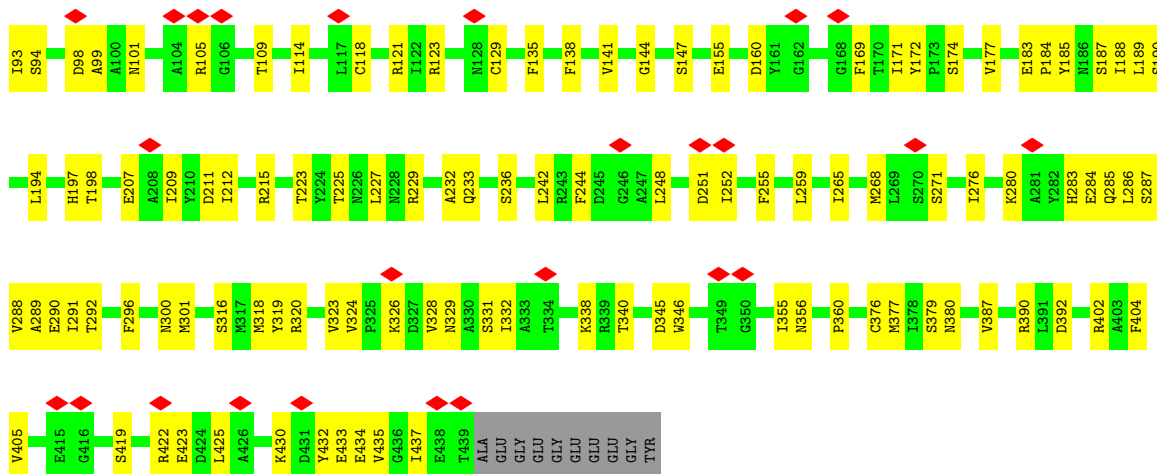


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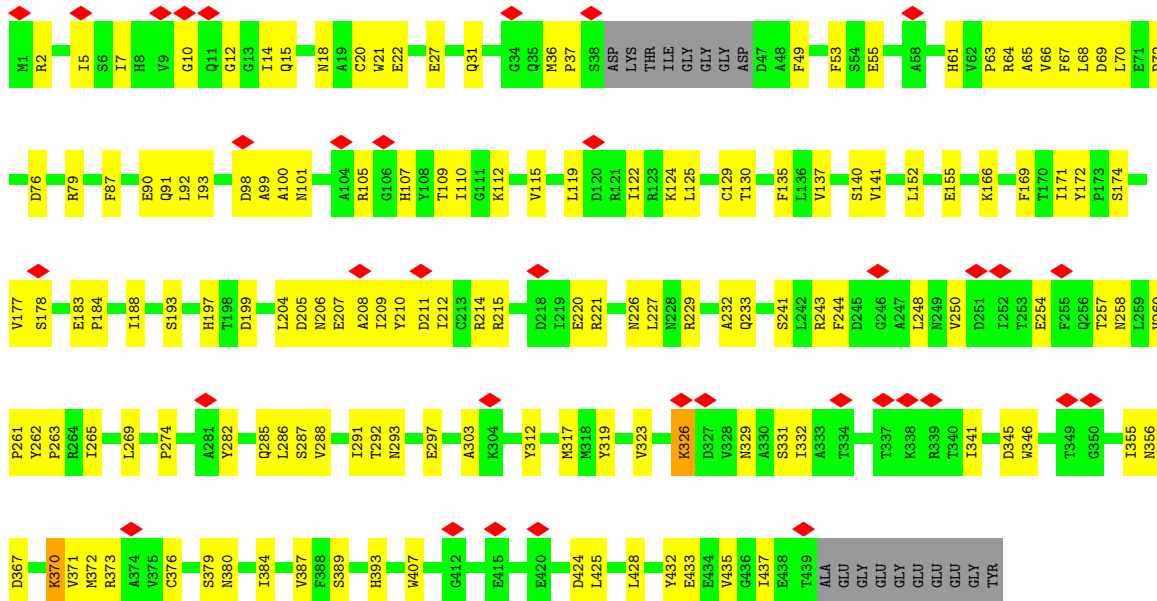


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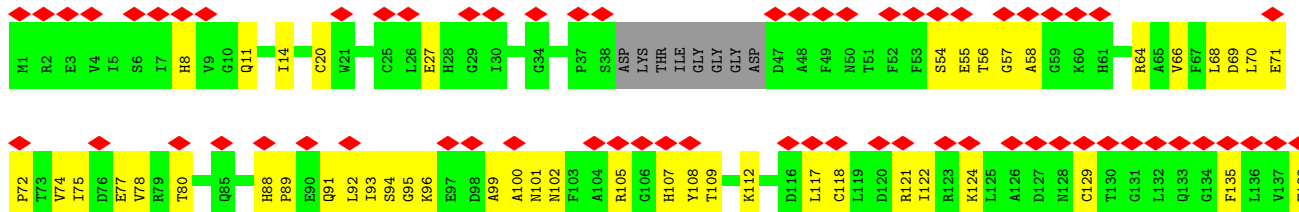


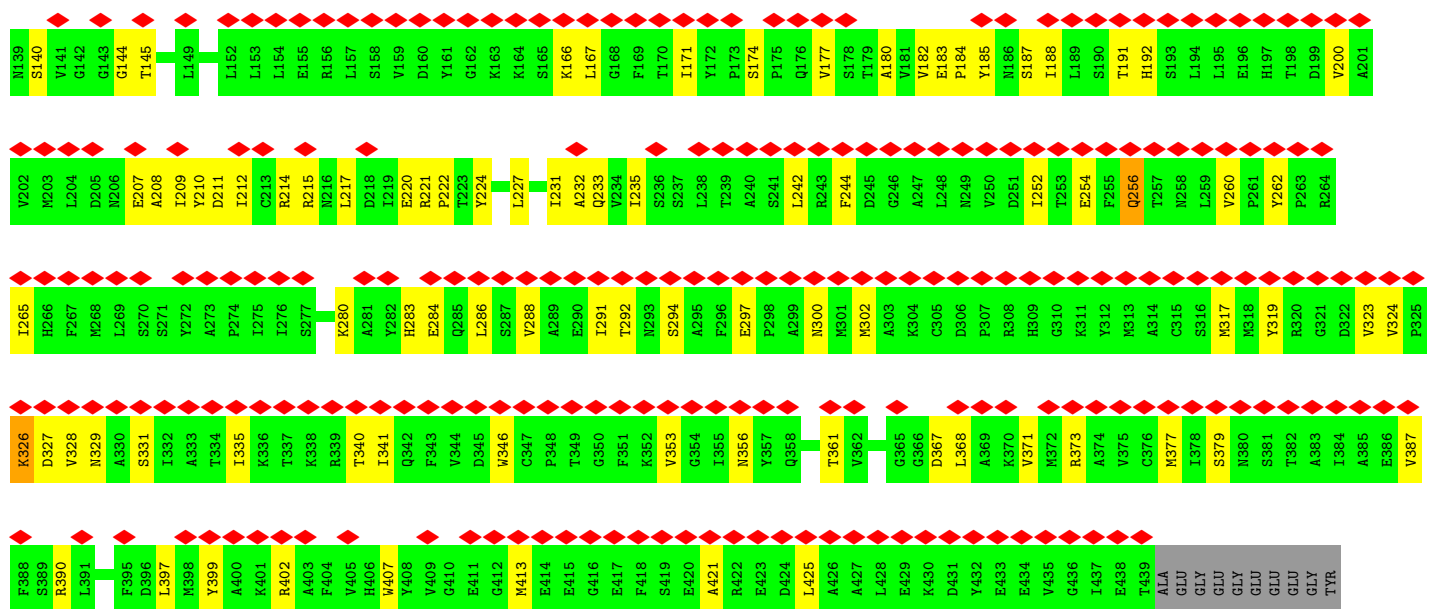


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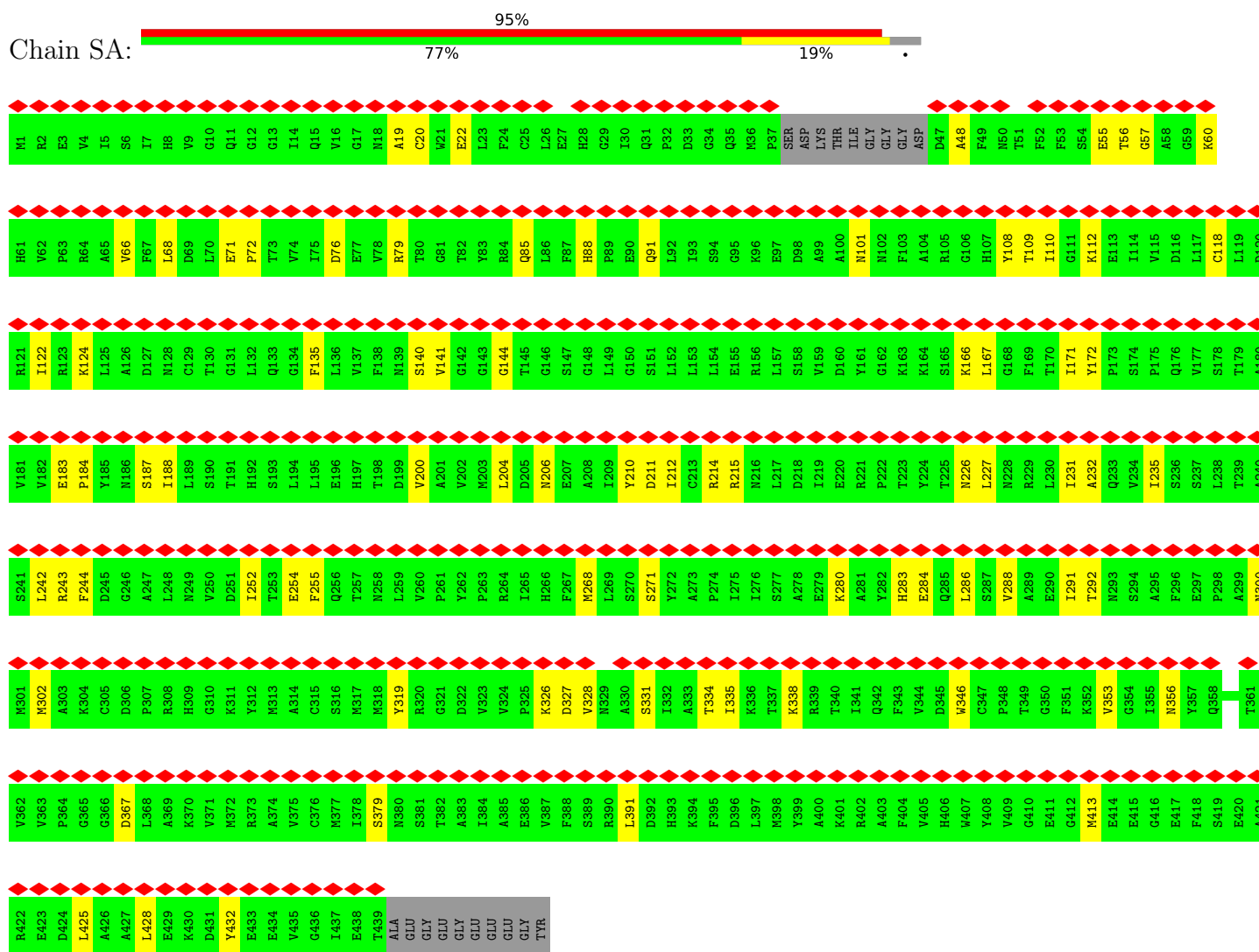


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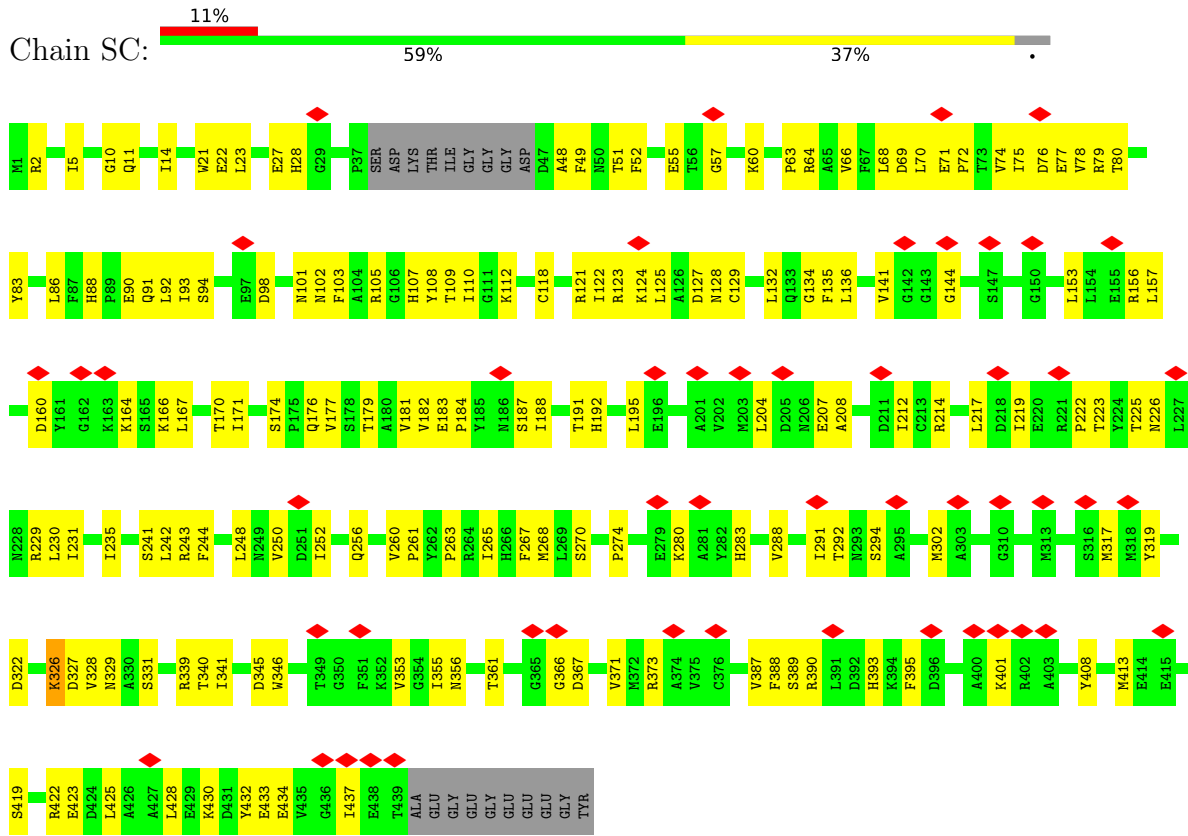




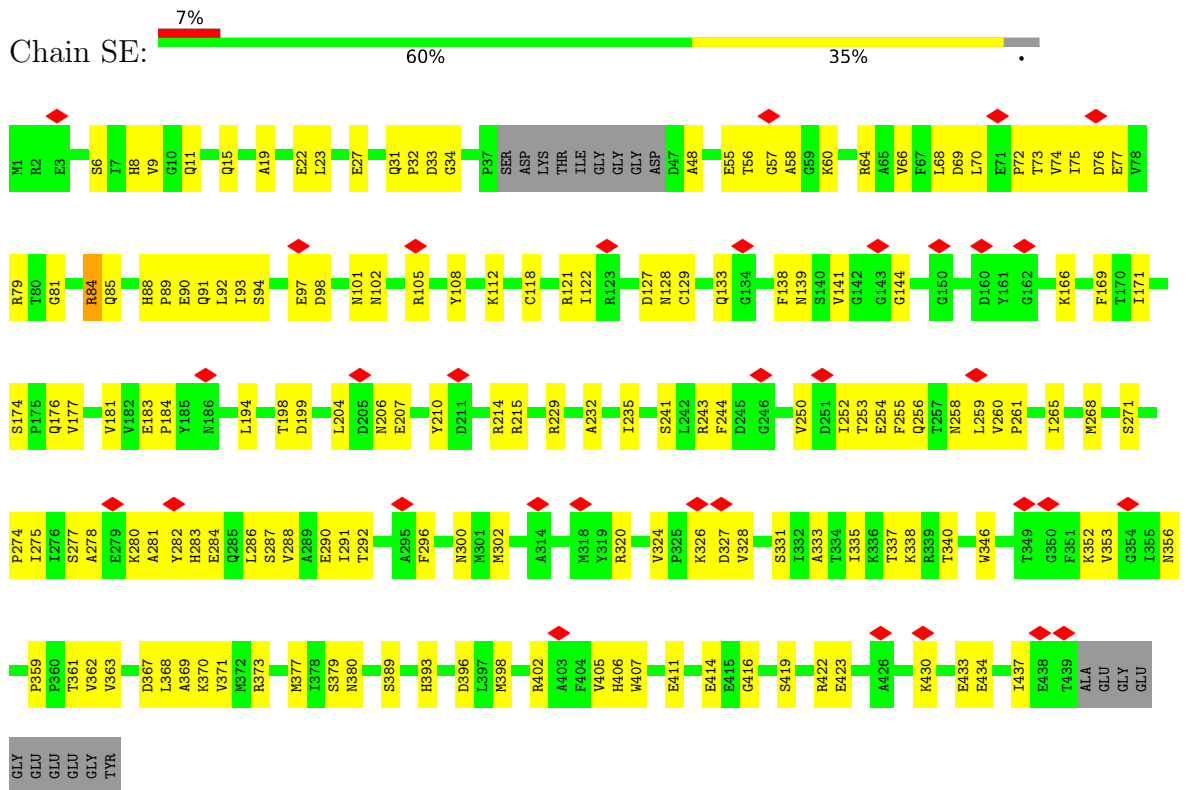
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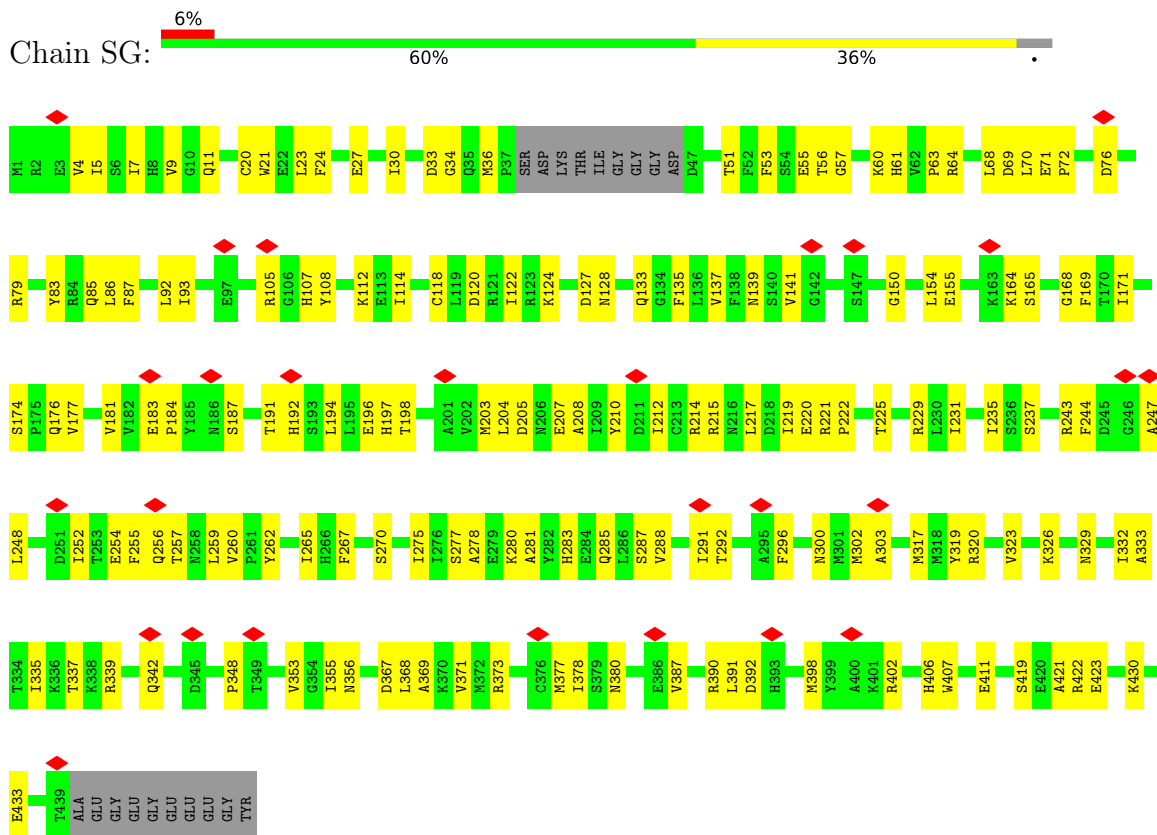
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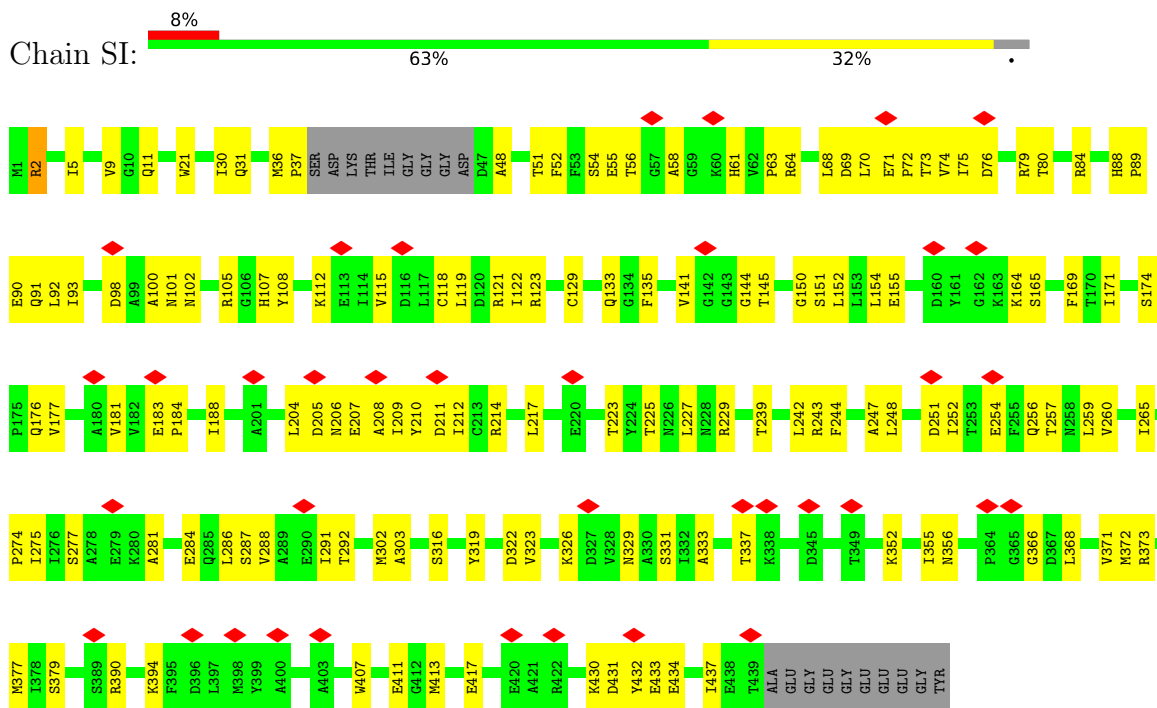
• Molecule 45: Tubulin alpha chain



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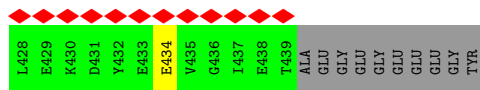


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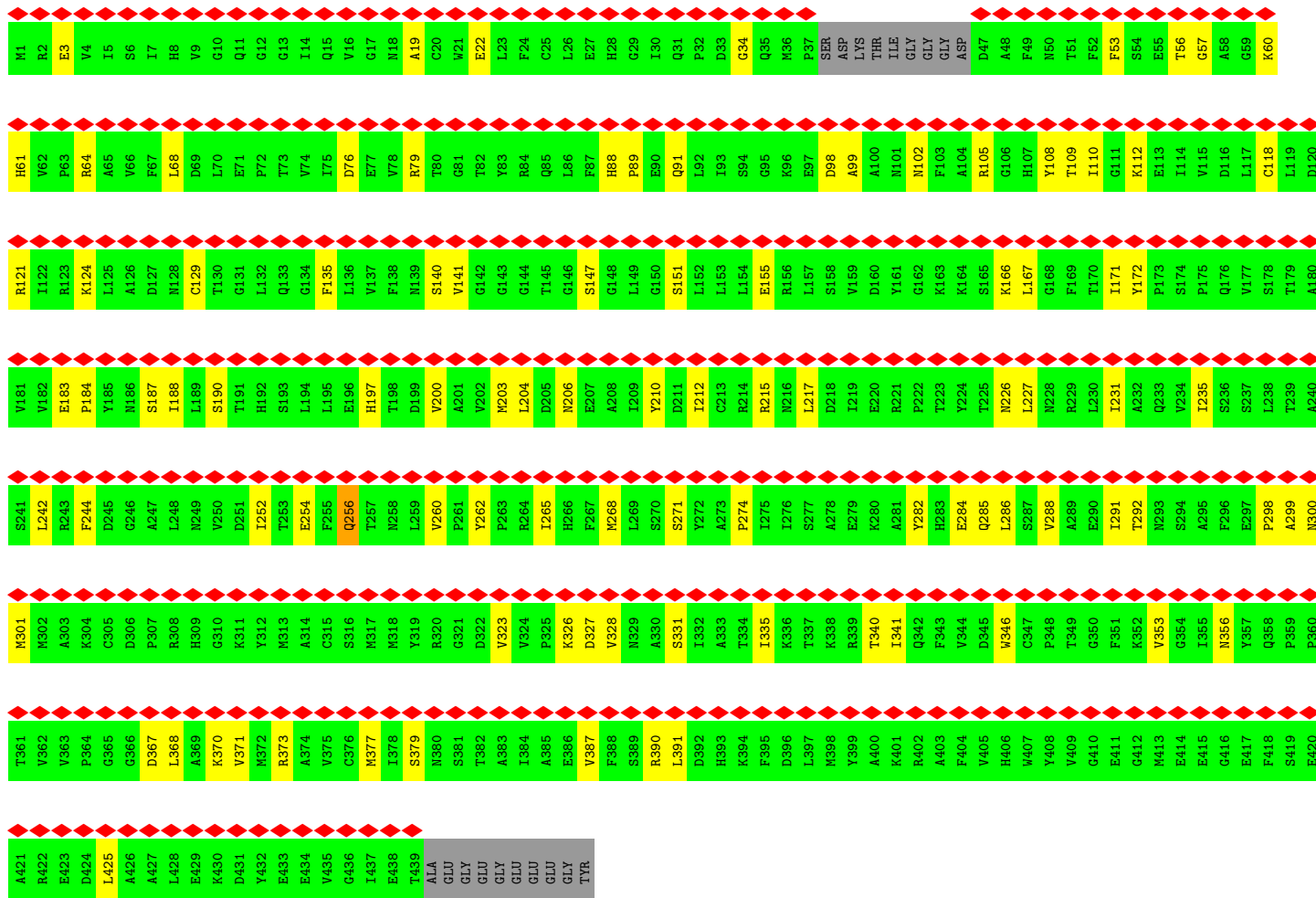
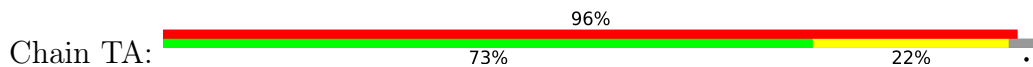


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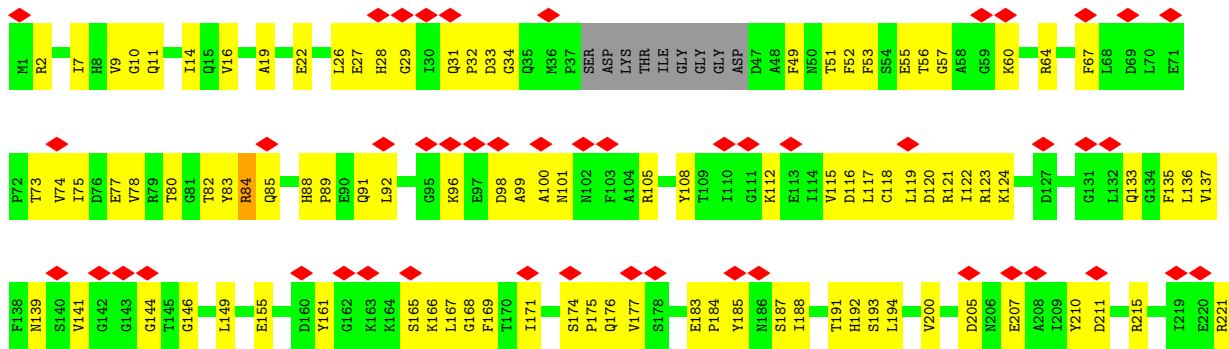




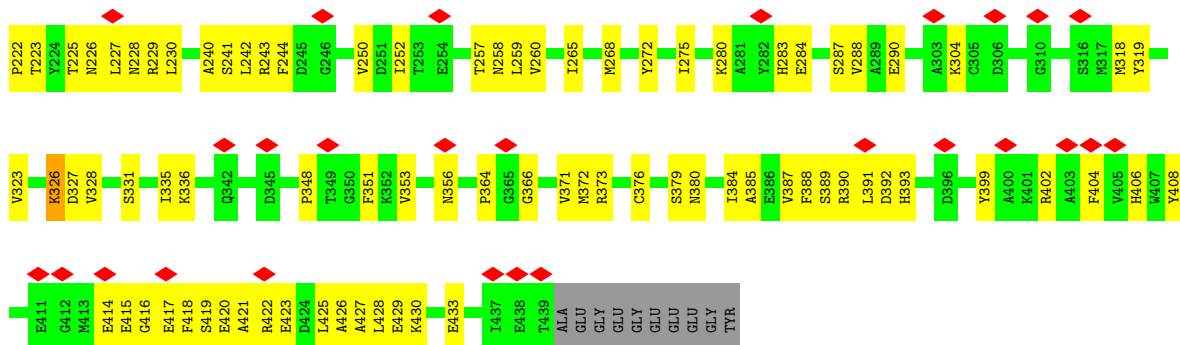
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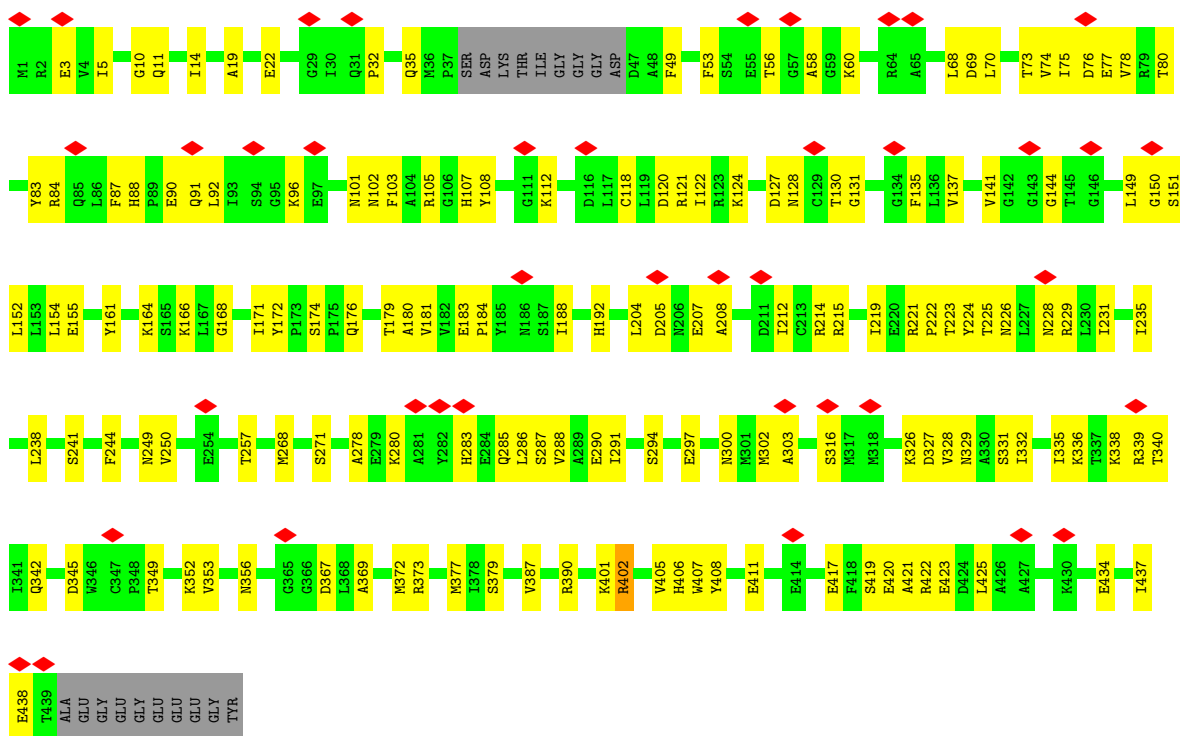
• Molecule 45: Tubulin alpha chain



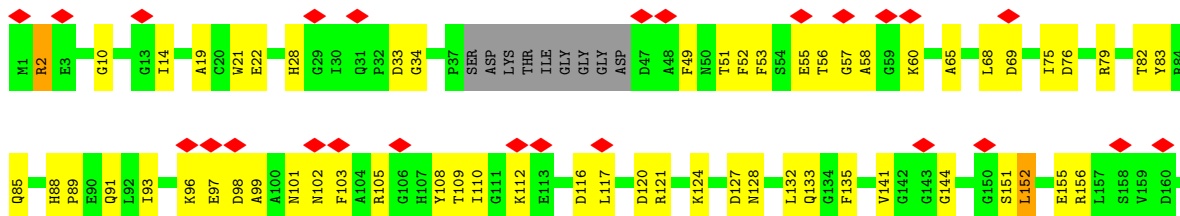


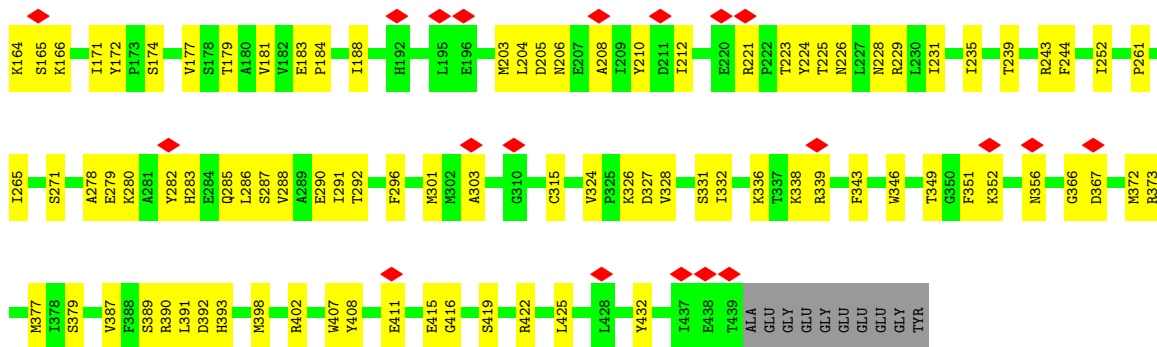


• Molecule 45: Tubulin alpha chain

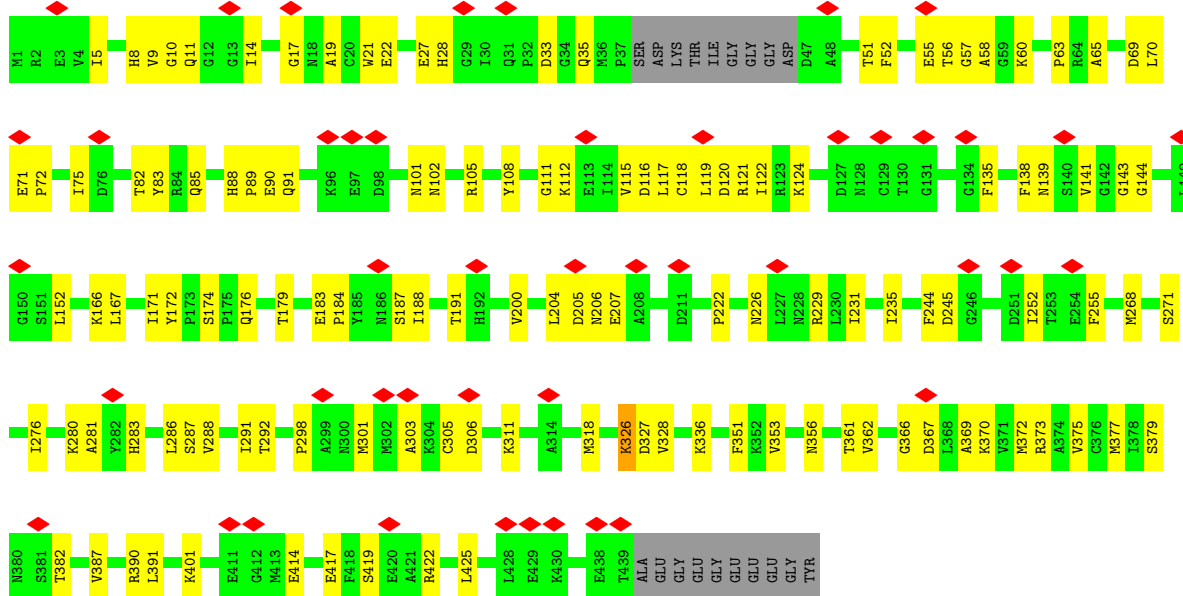


• Molecule 45: Tubulin alpha chain

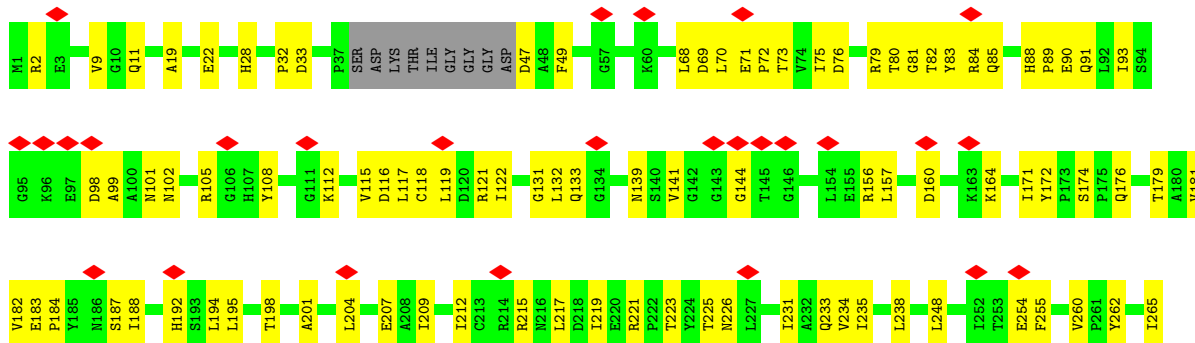


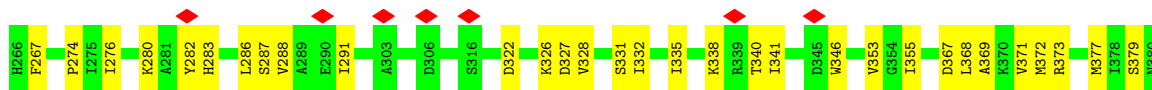


• Molecule 45: Tubulin alpha chain

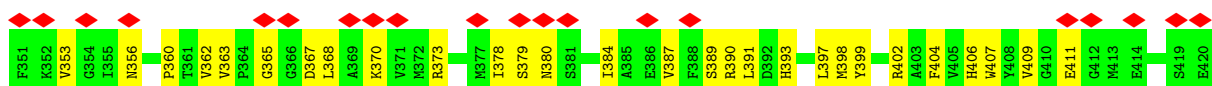
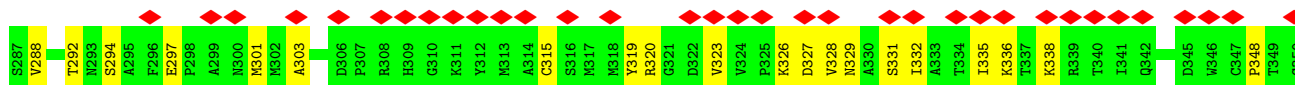
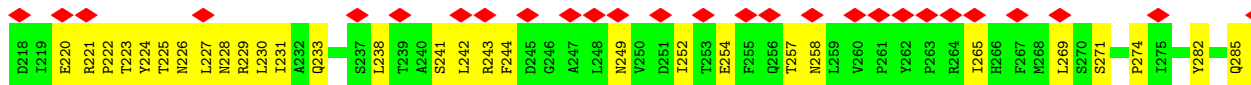
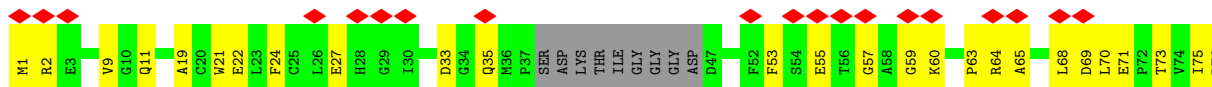


• Molecule 45: Tubulin alpha chain

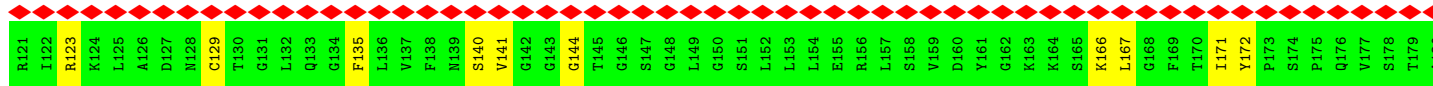
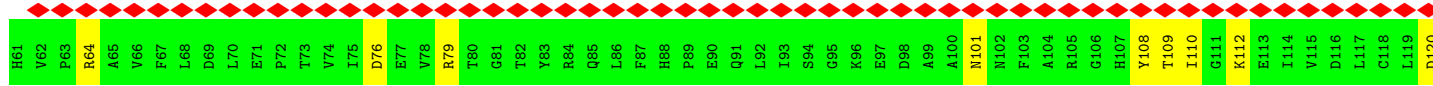
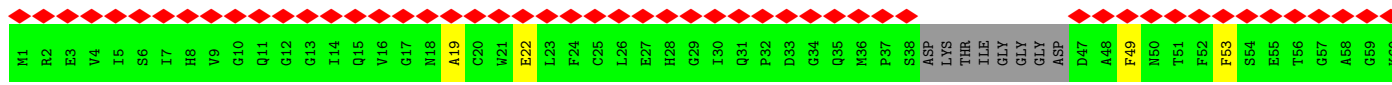
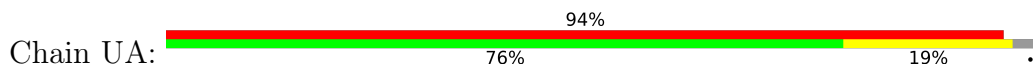


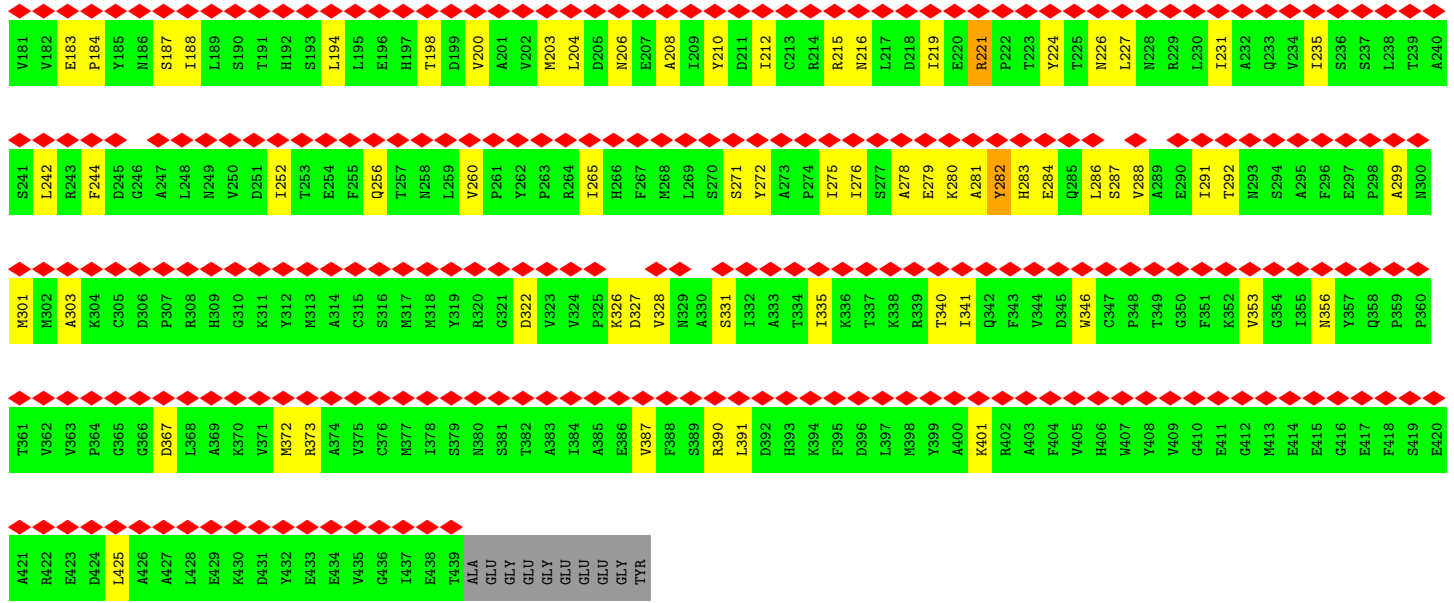


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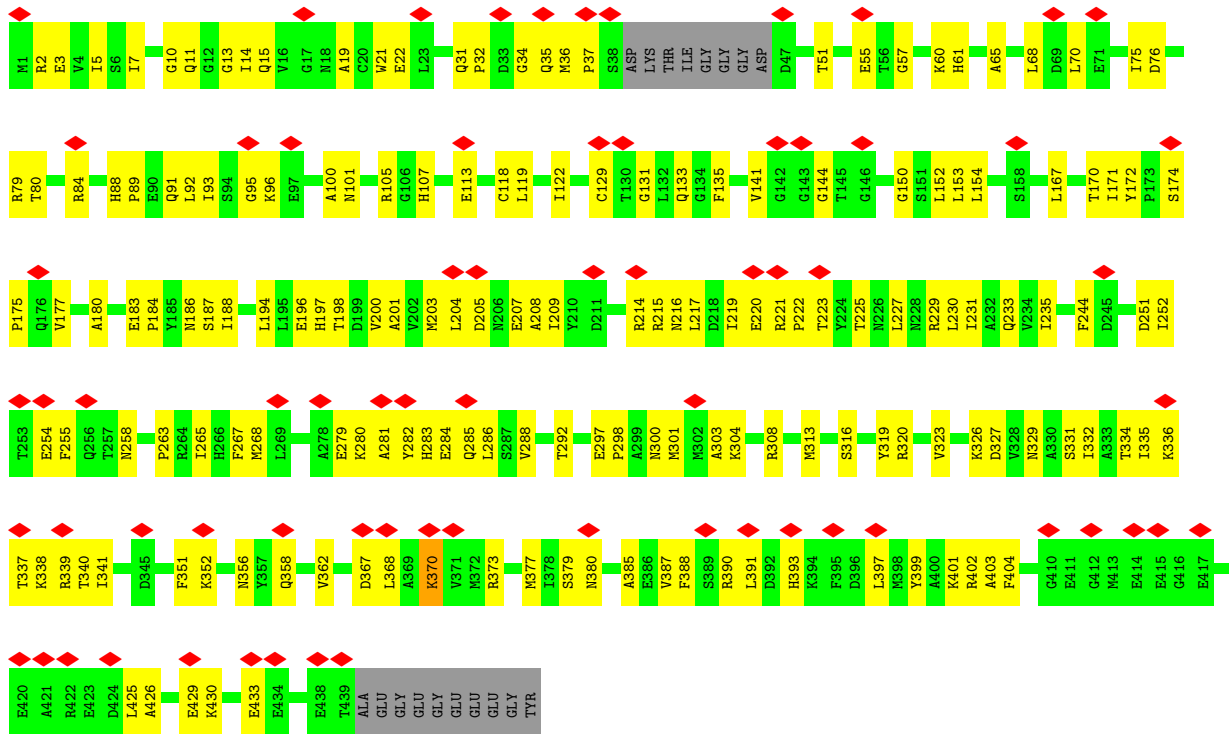


• Molecule 45: Tubulin alpha chain



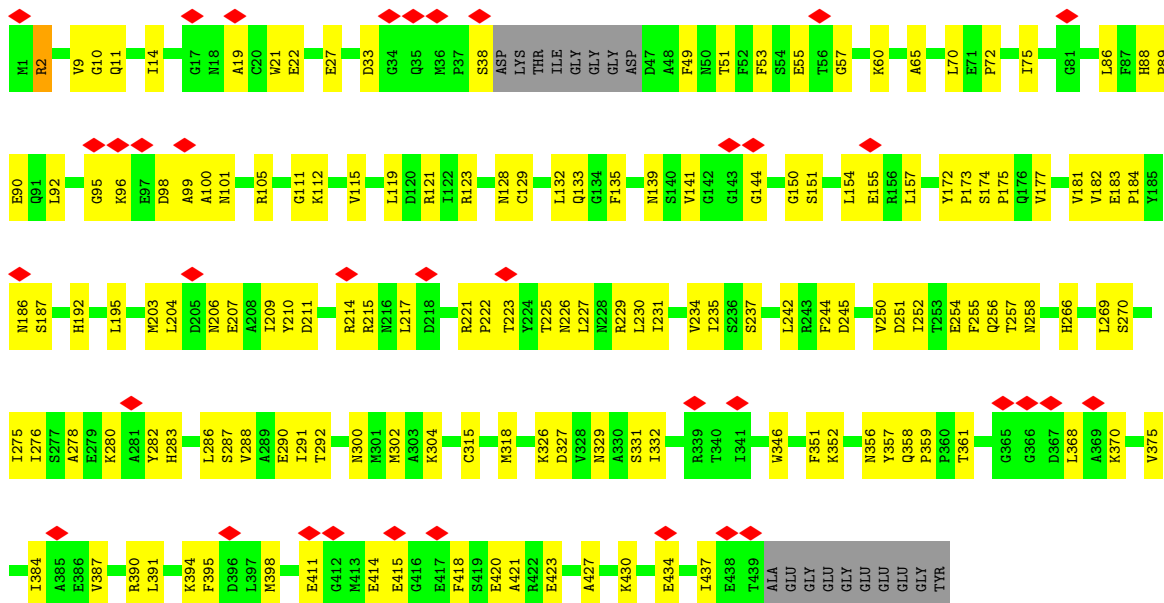


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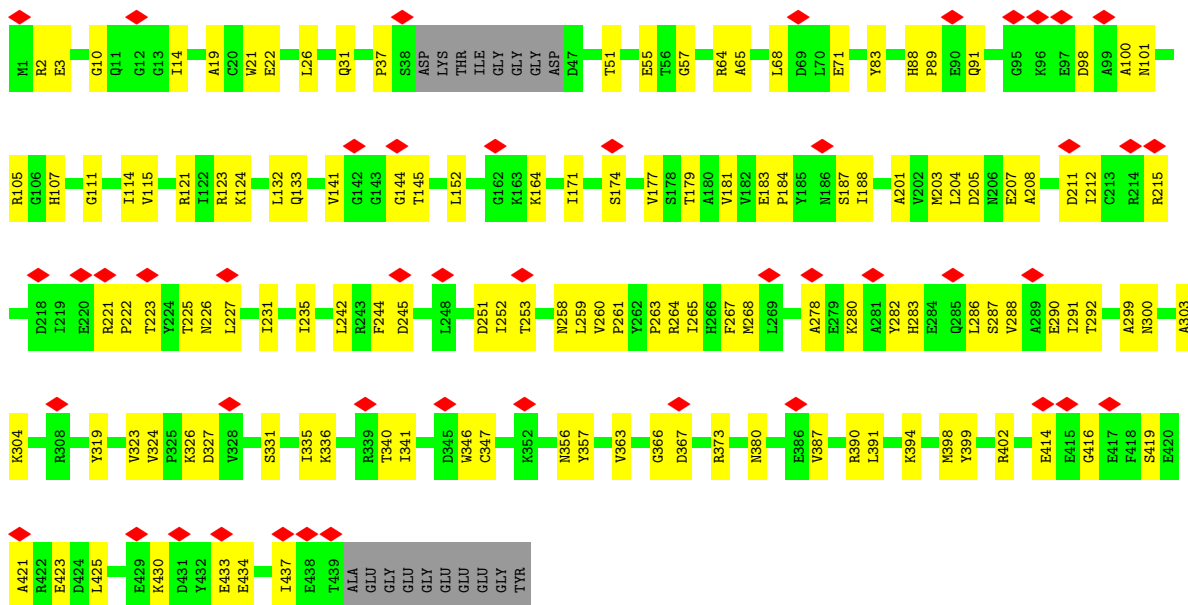


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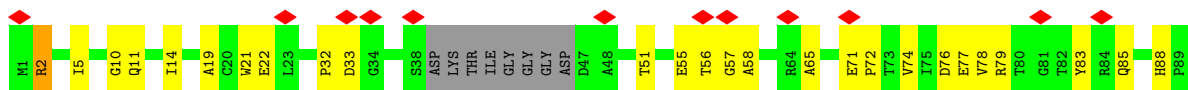


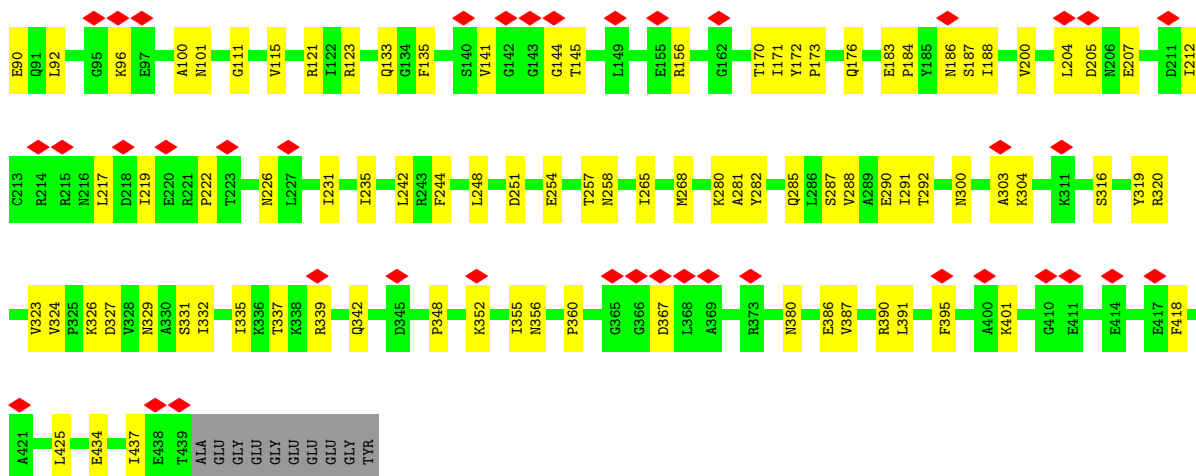


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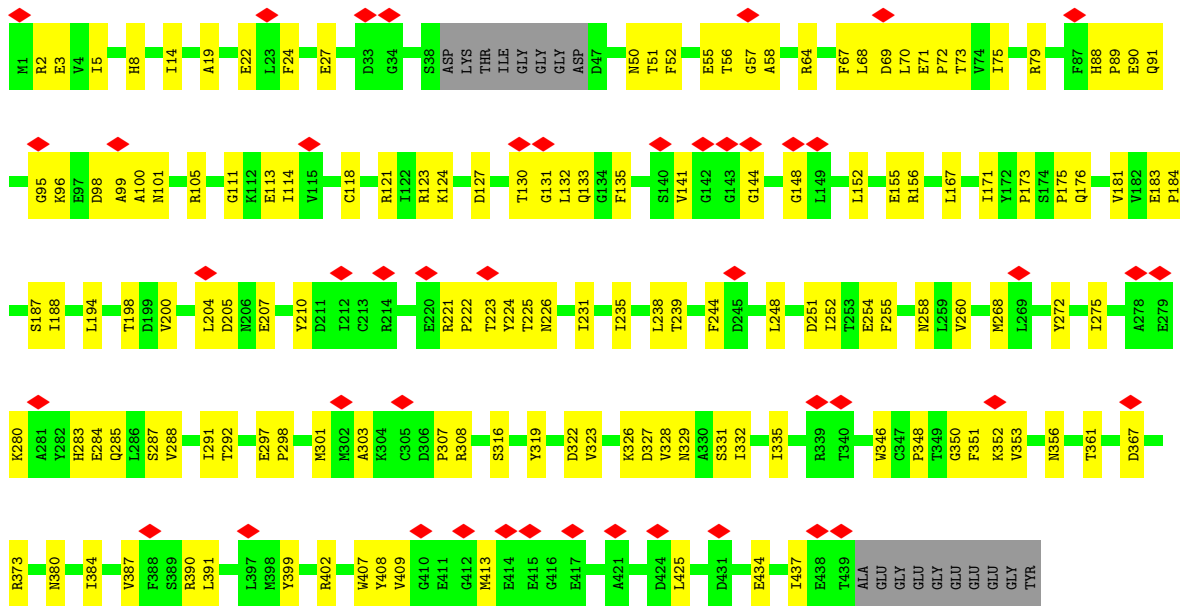


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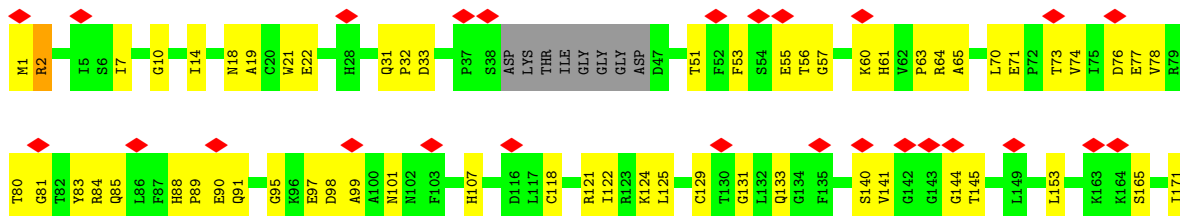


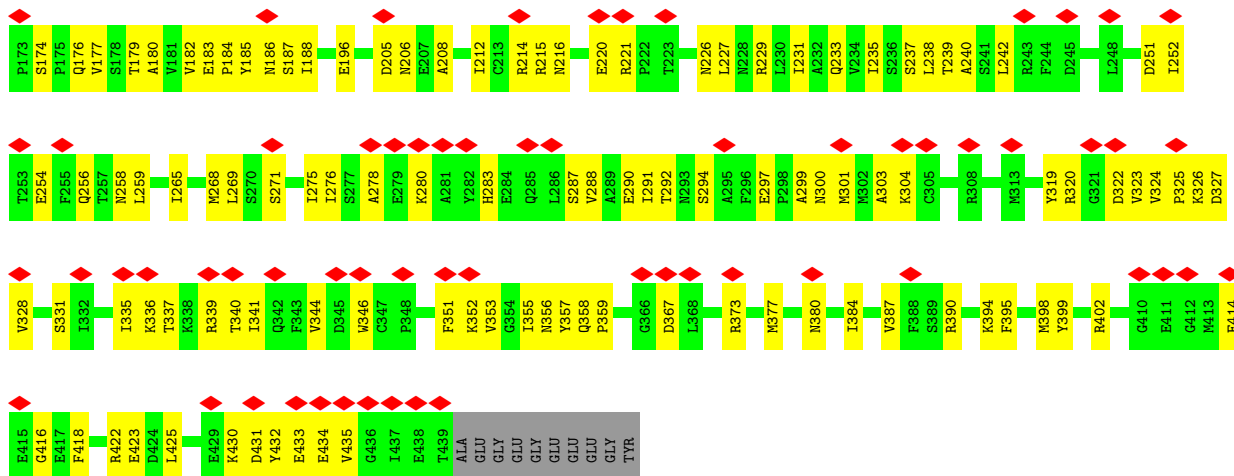


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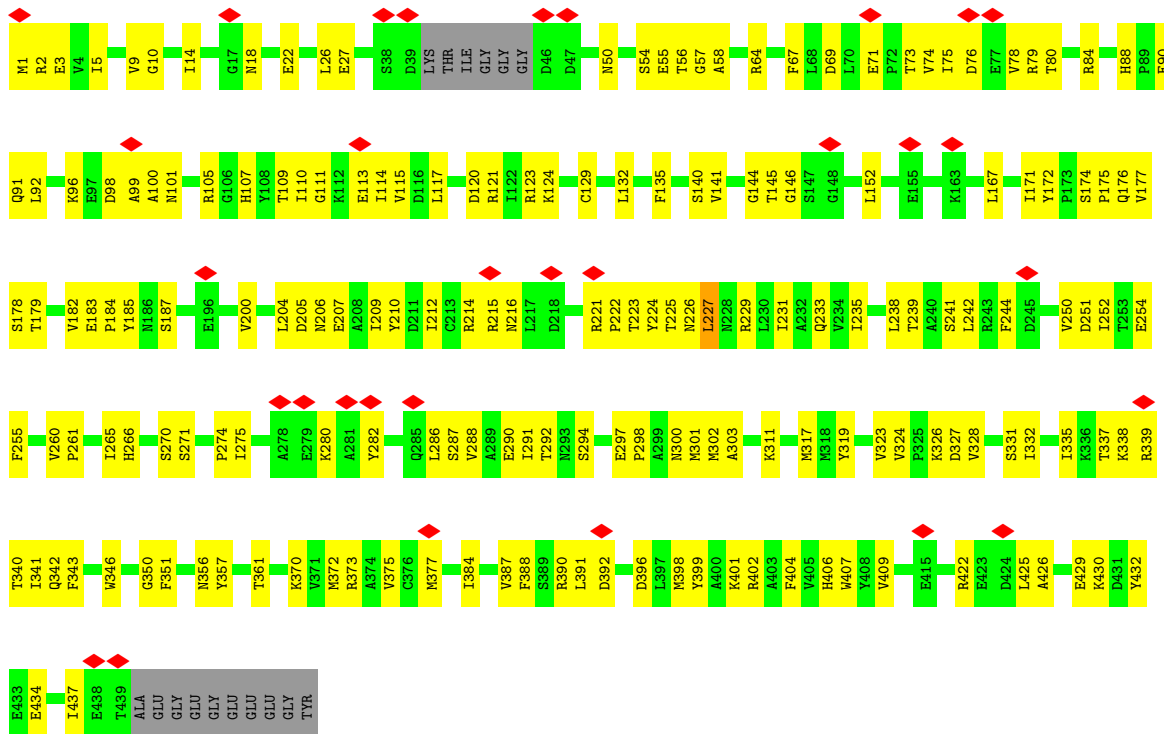


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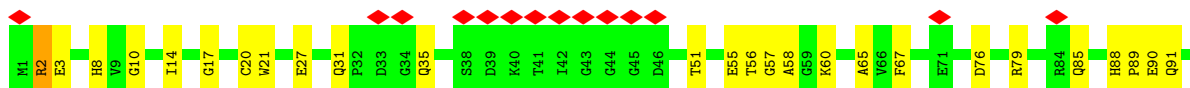


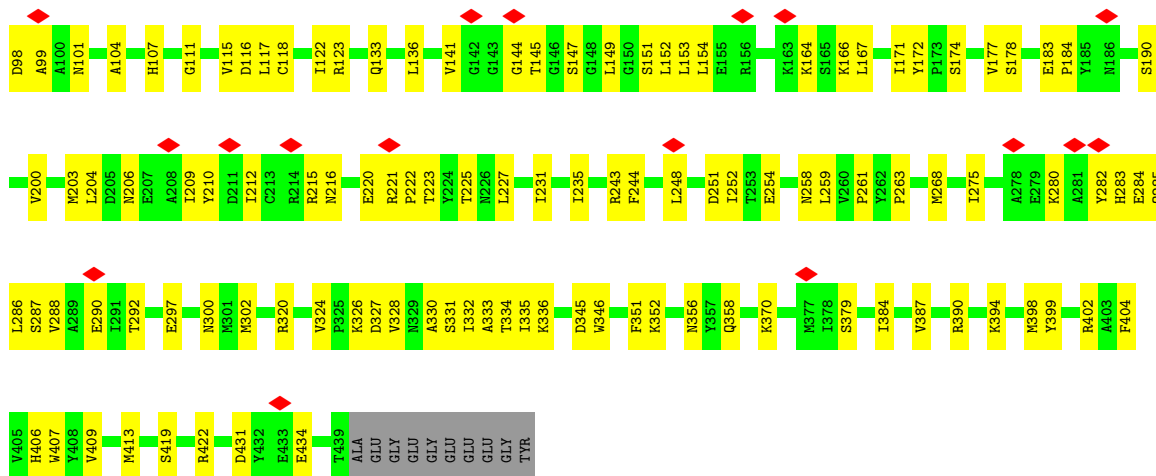


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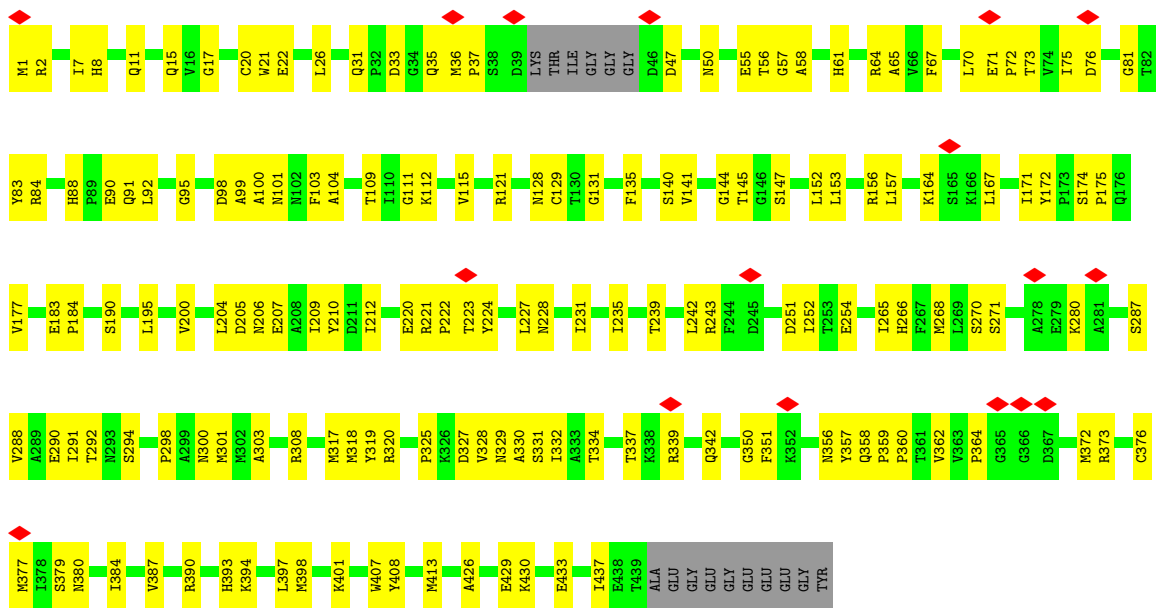


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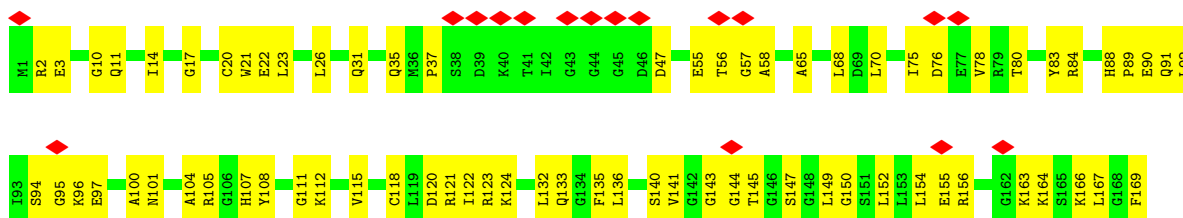




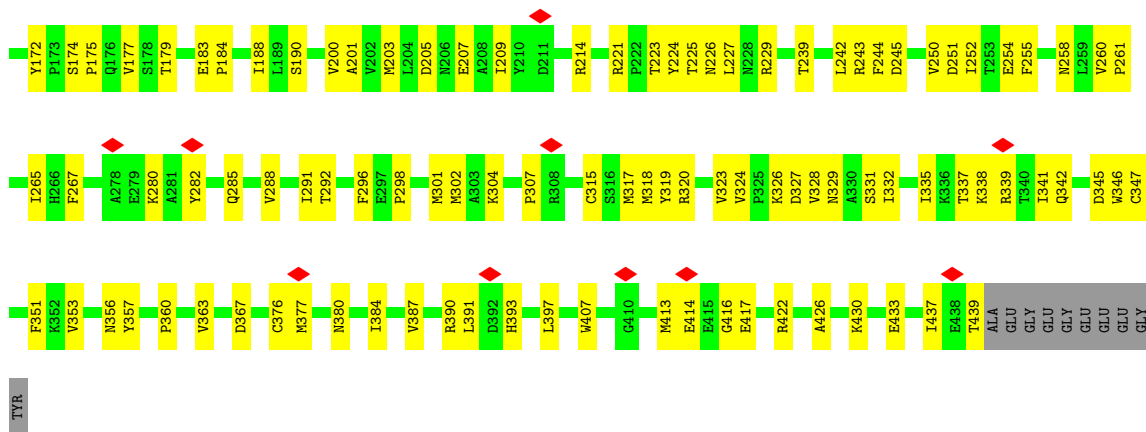
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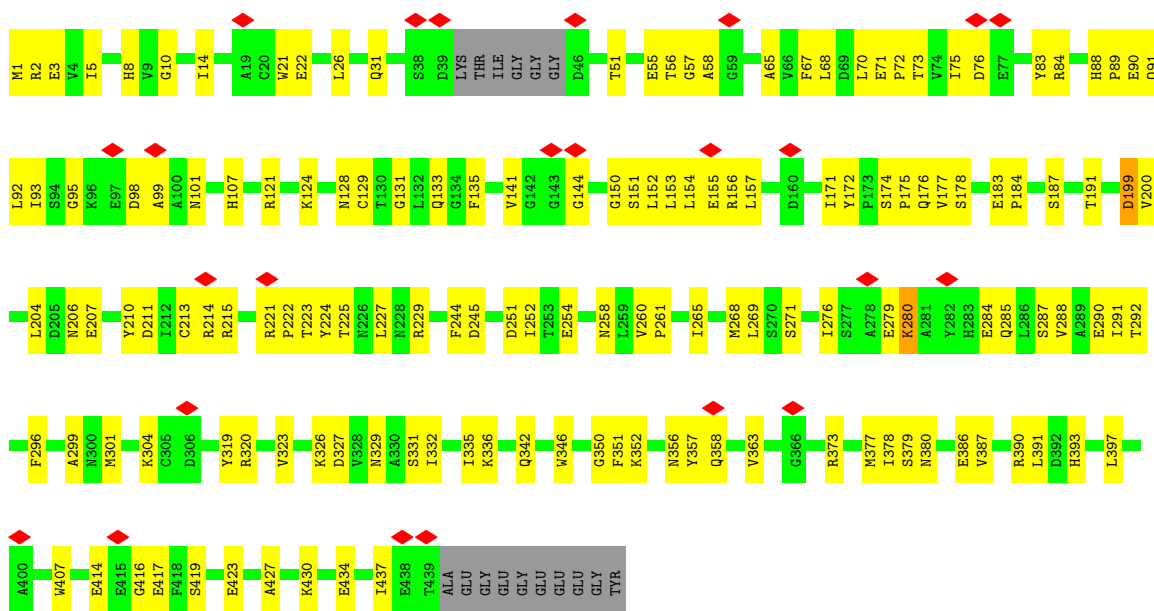
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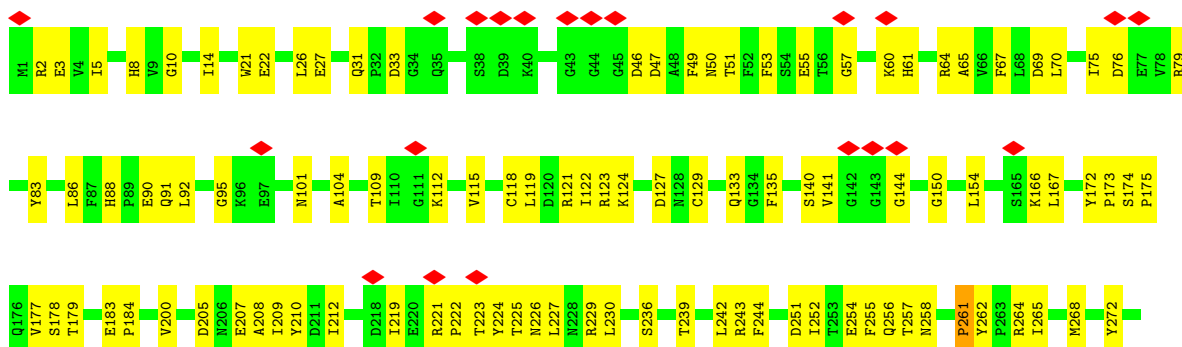


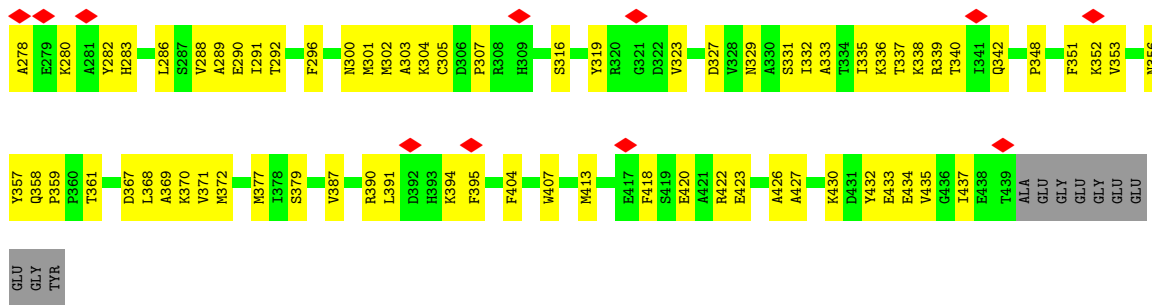


● Molecule 45: Tubulin alpha chain

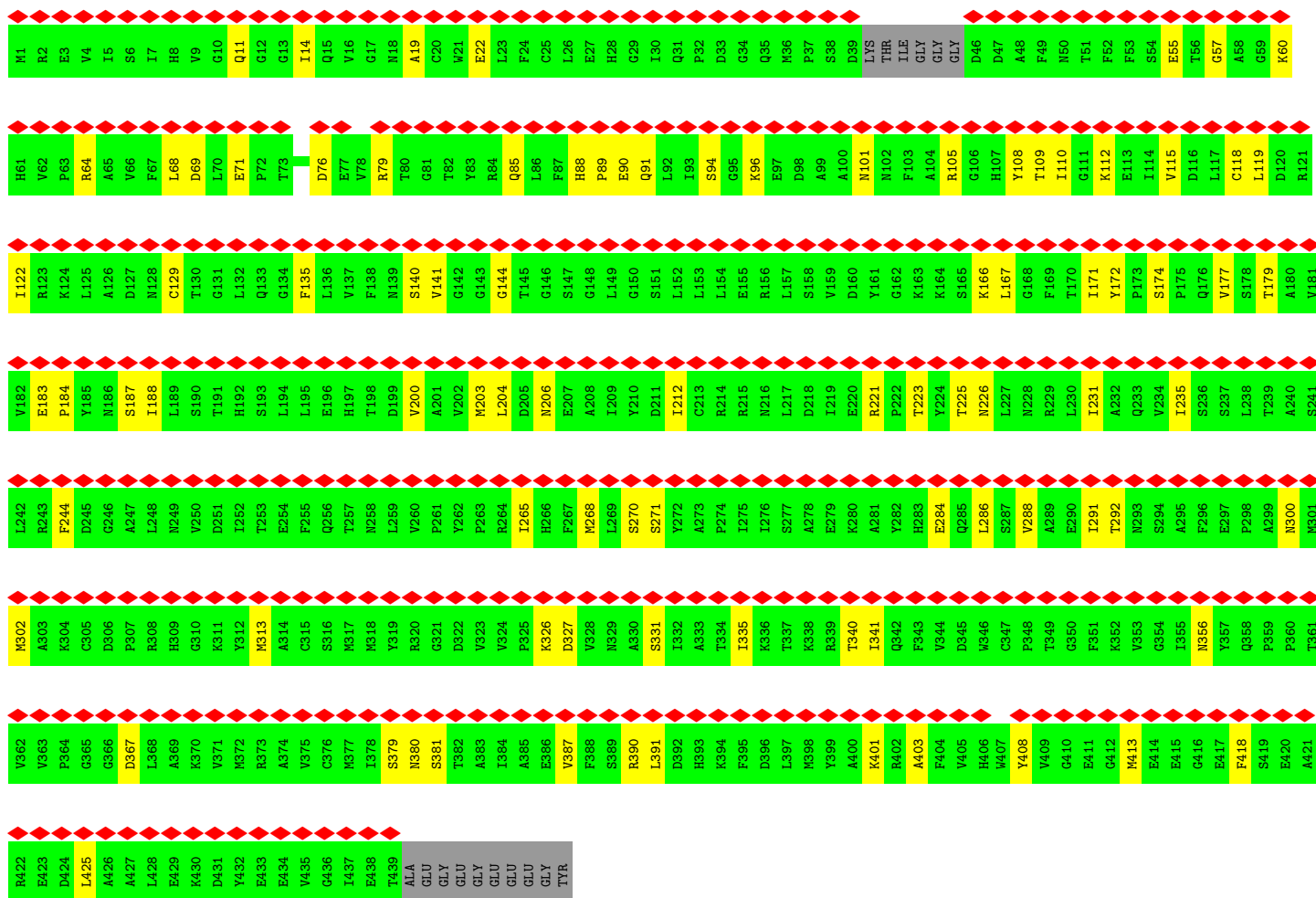
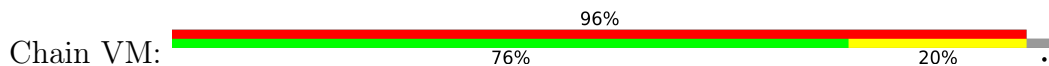


● Molecule 45: Tubulin alpha chain

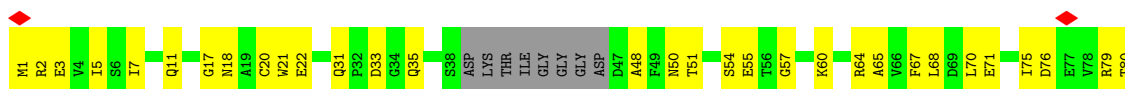


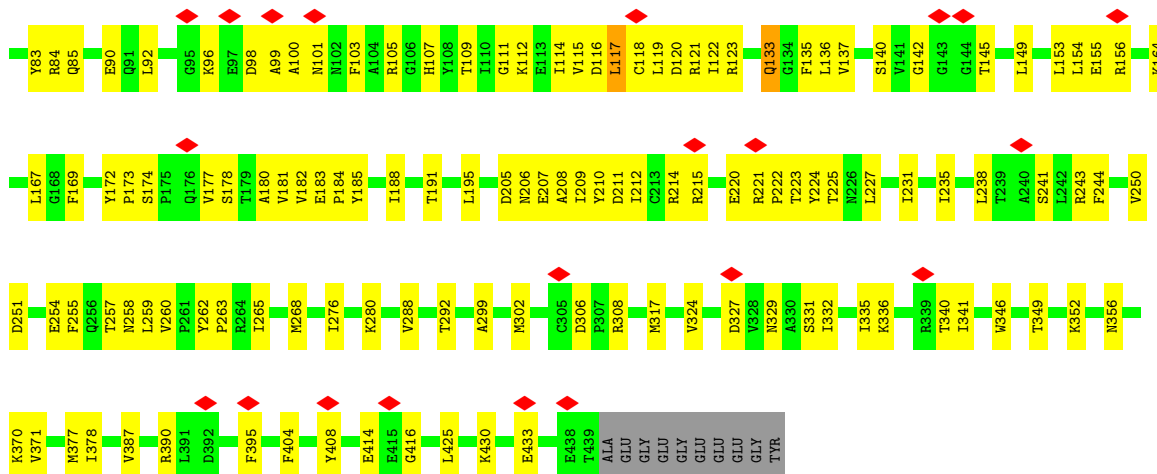


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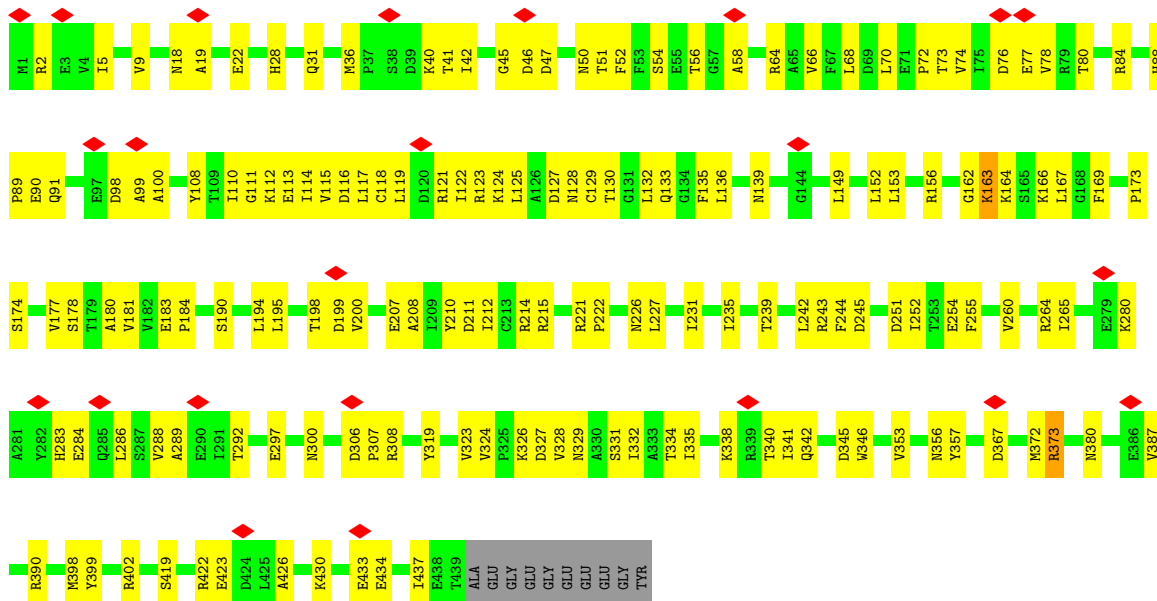


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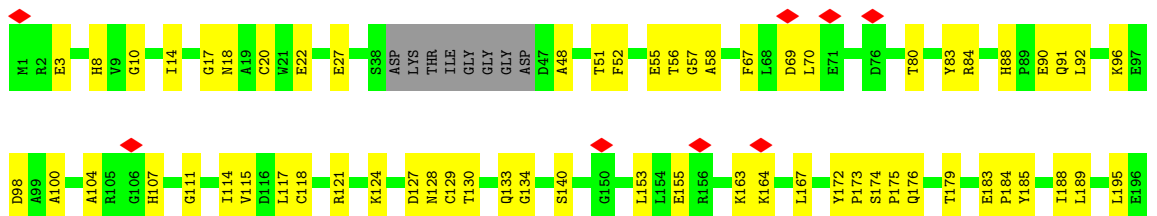


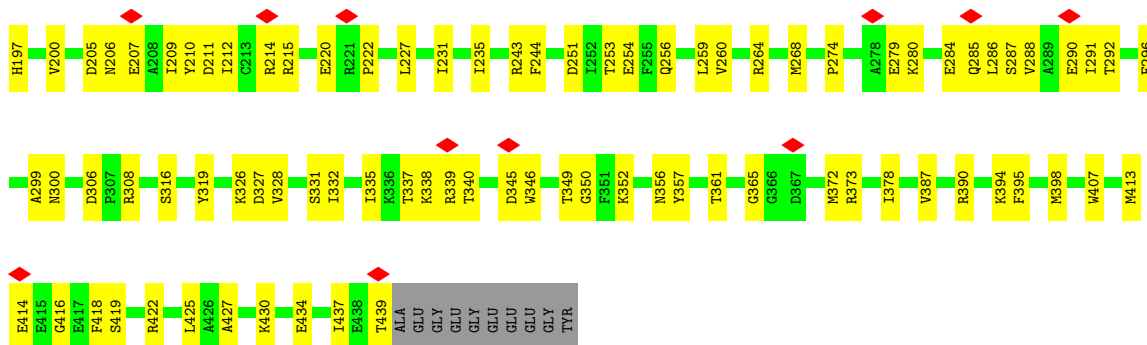


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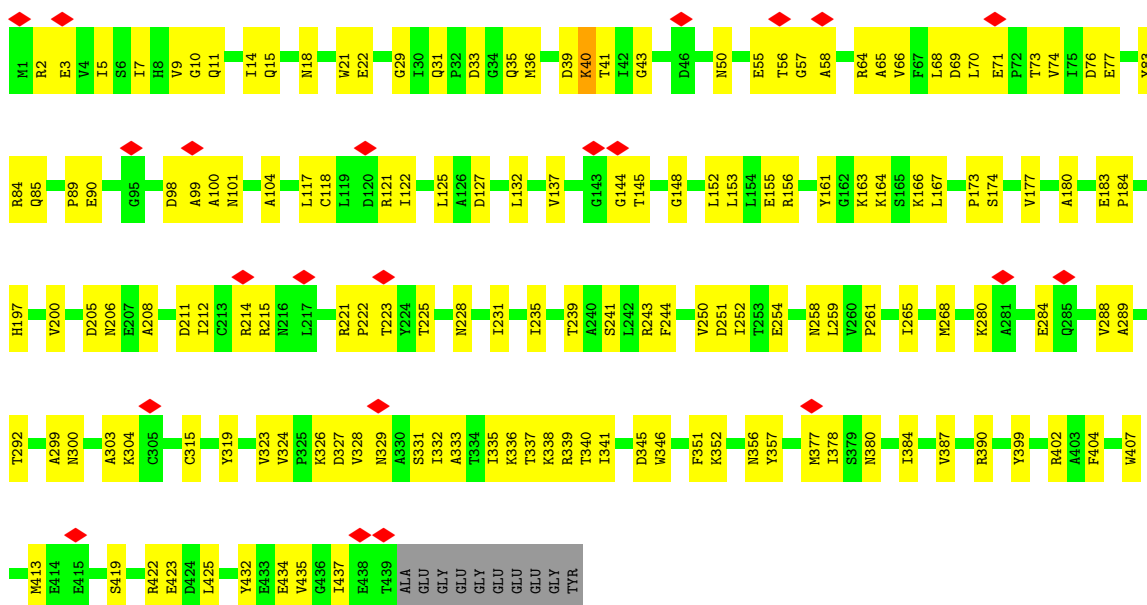


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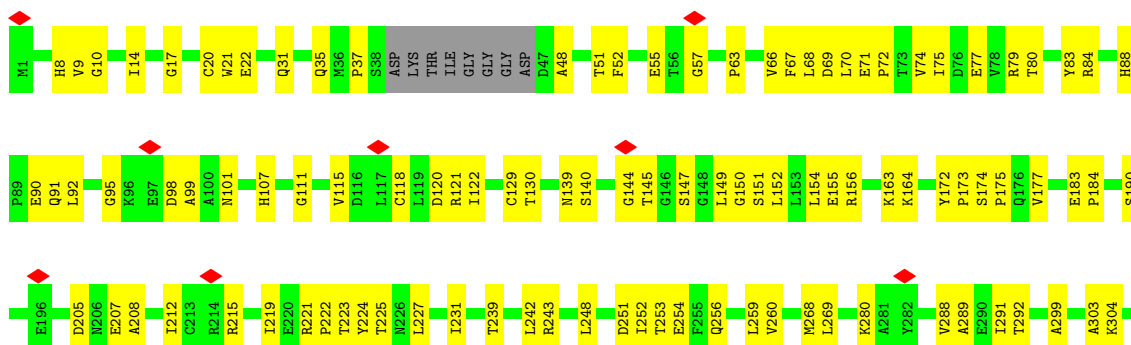




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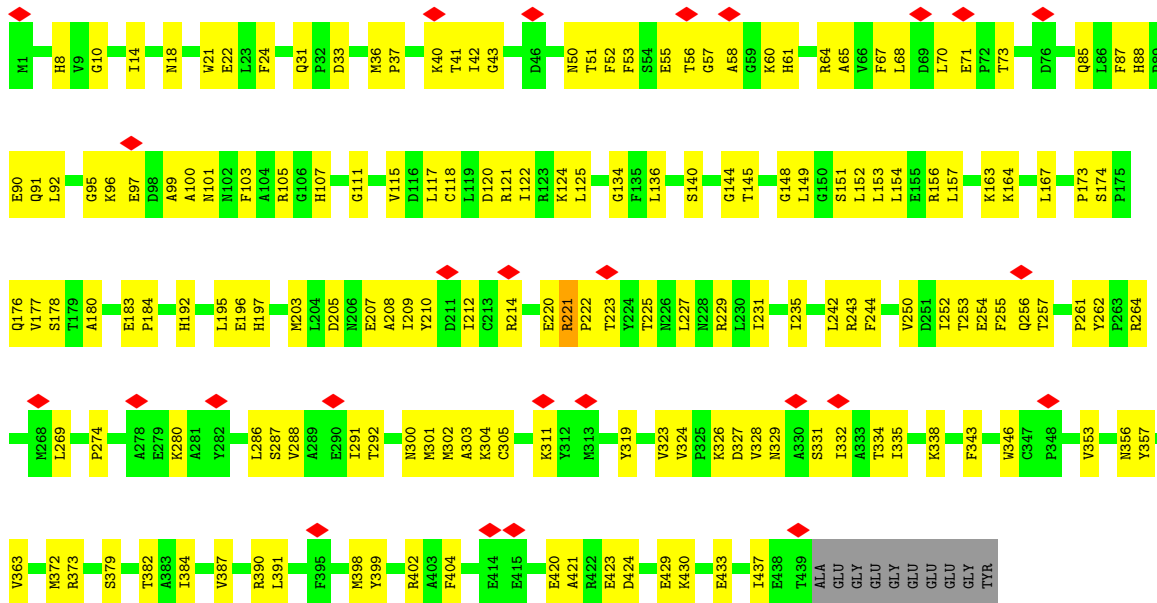


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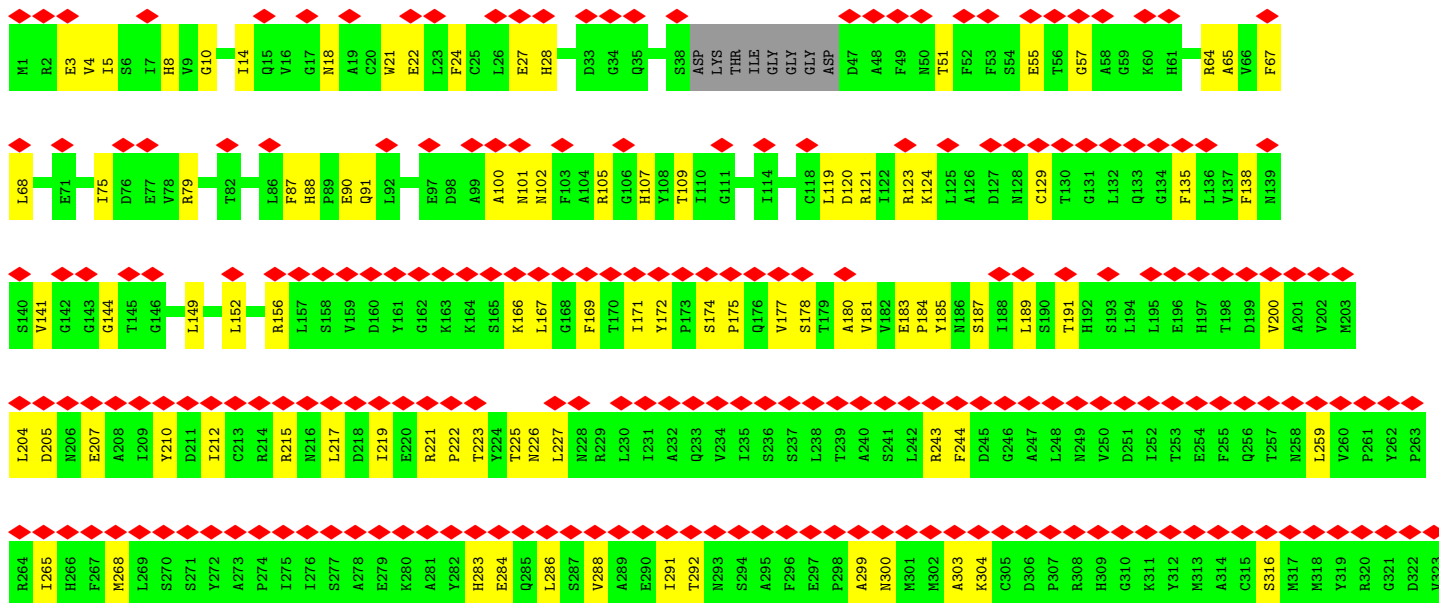
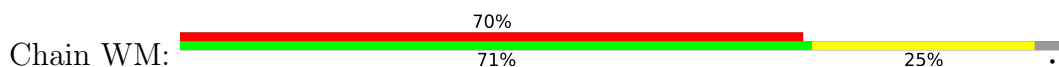


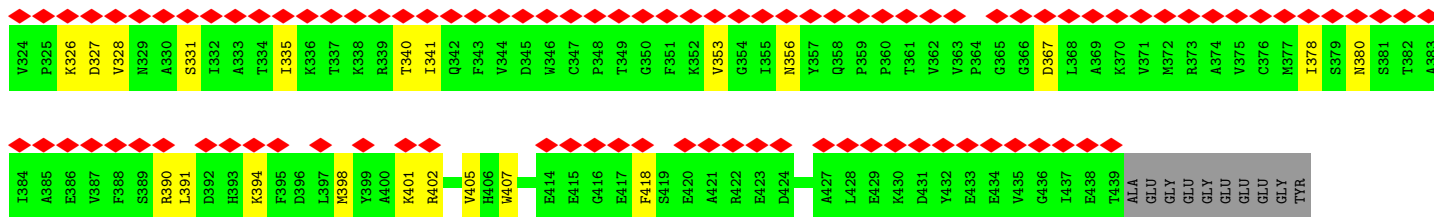


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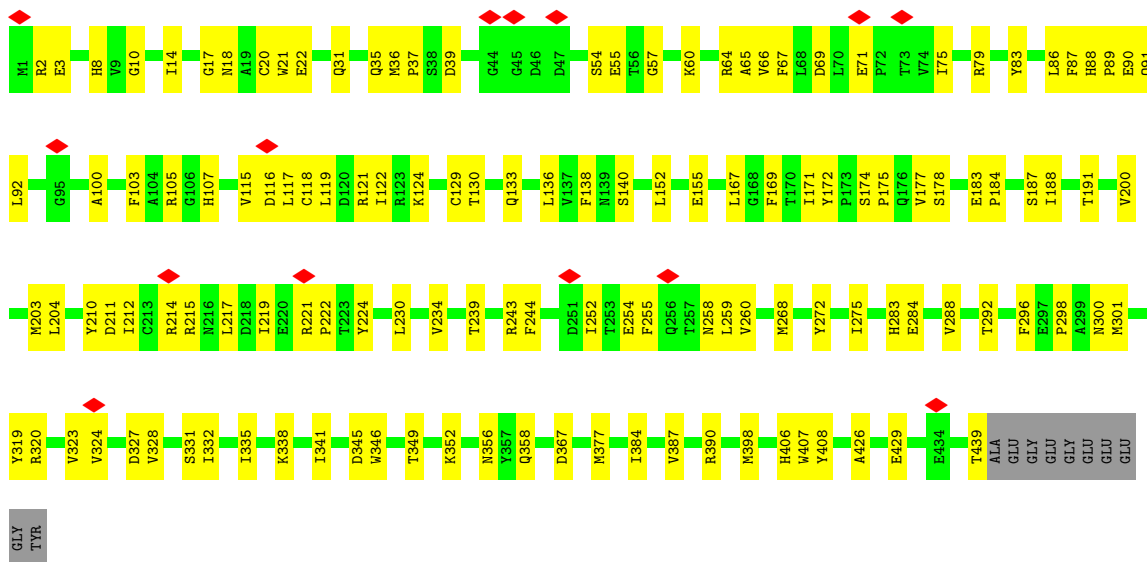


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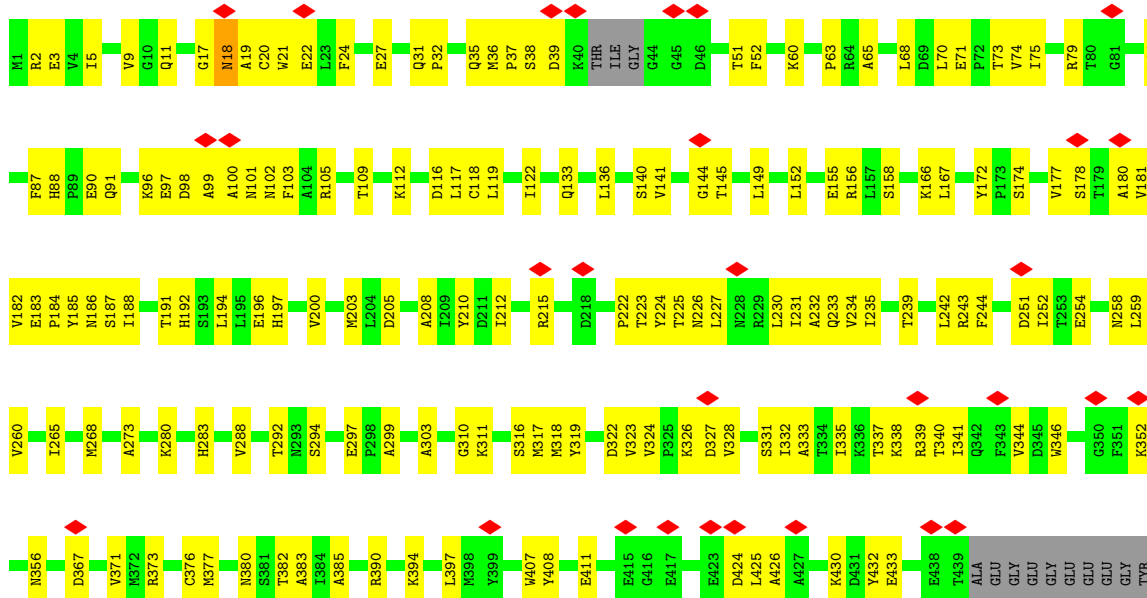




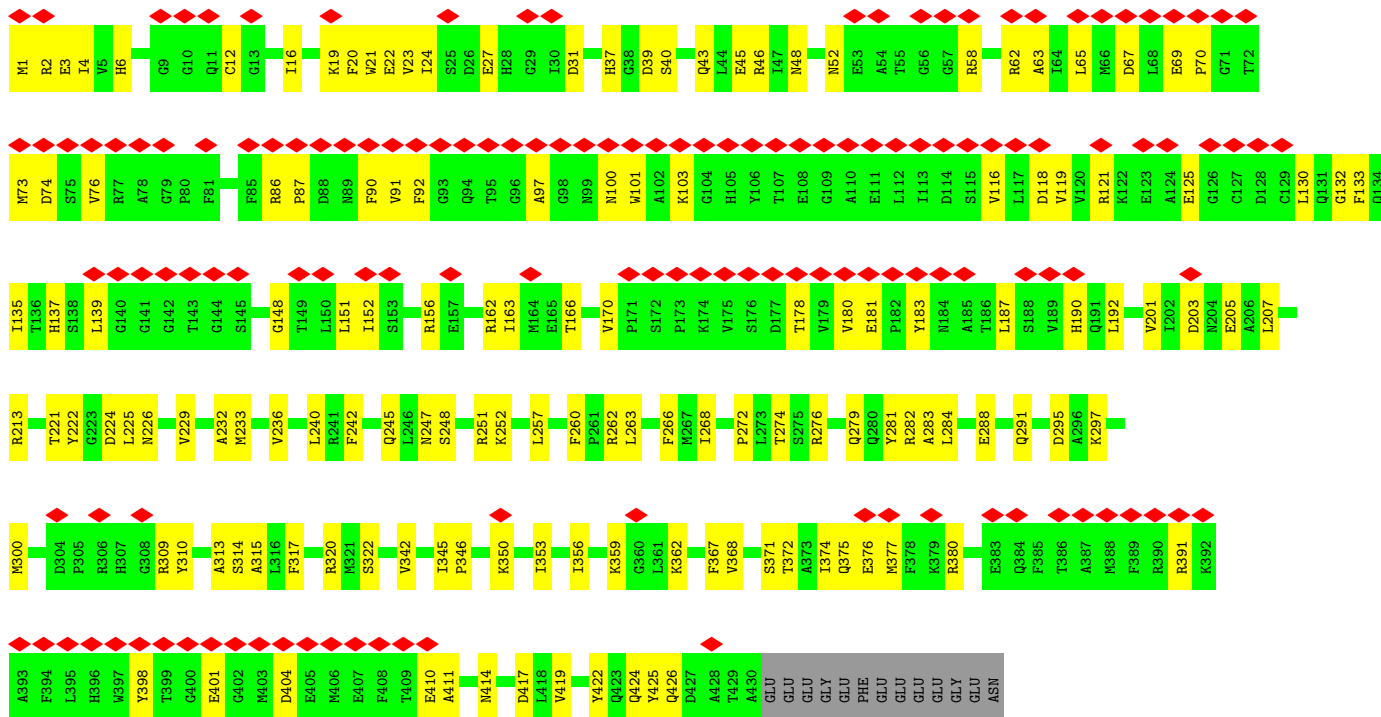
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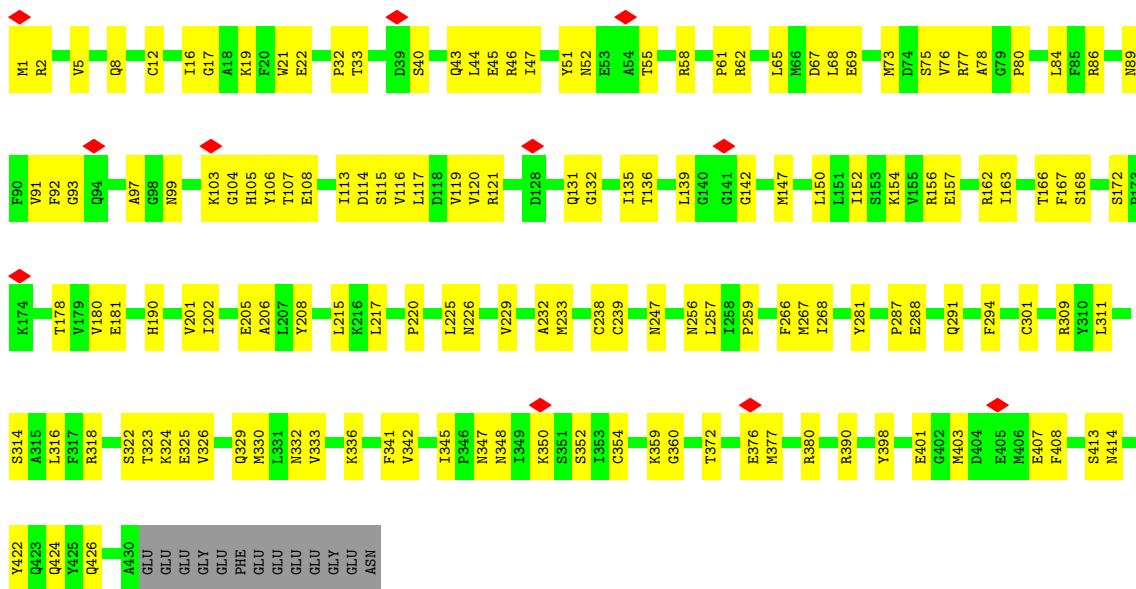
• Molecule 45: Tubulin alpha chain



• Molecule 46: Tubulin beta chain

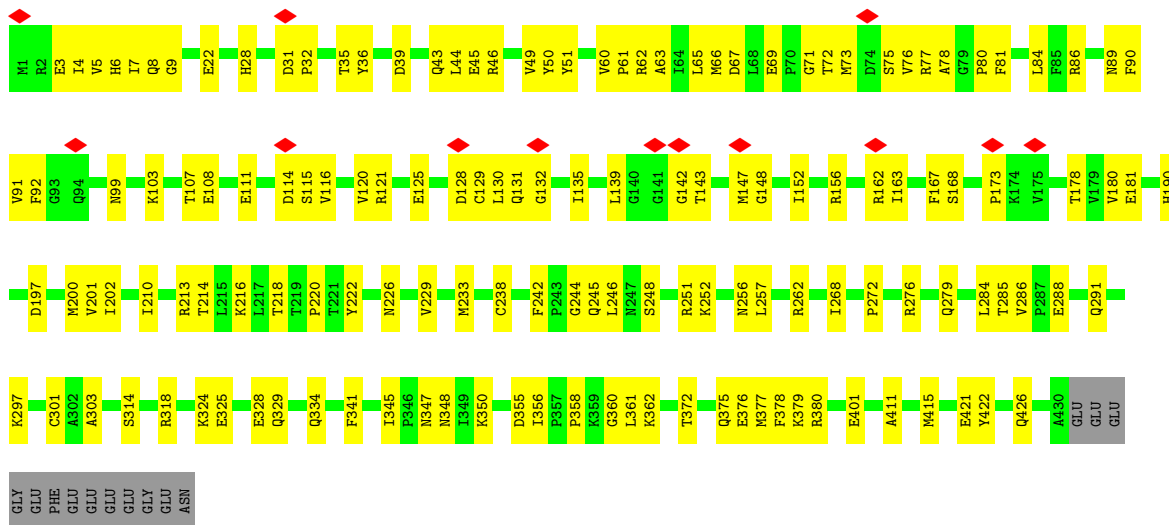


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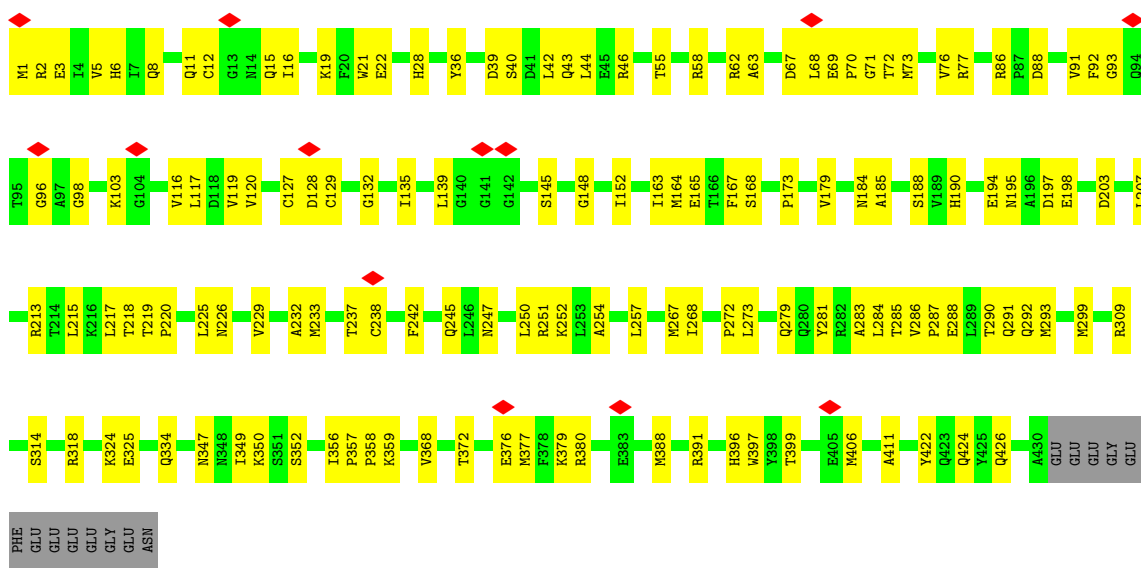


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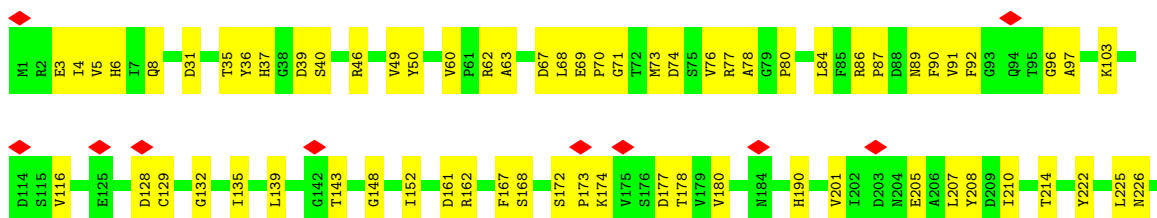




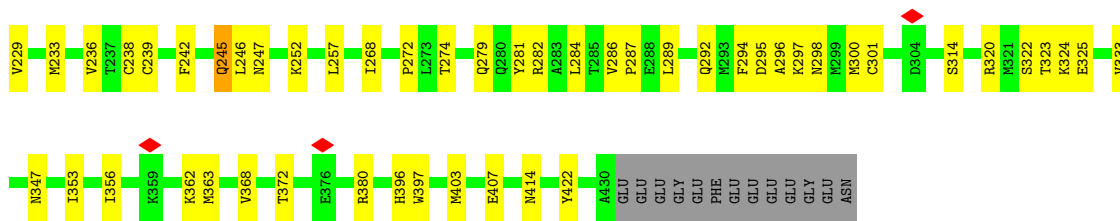
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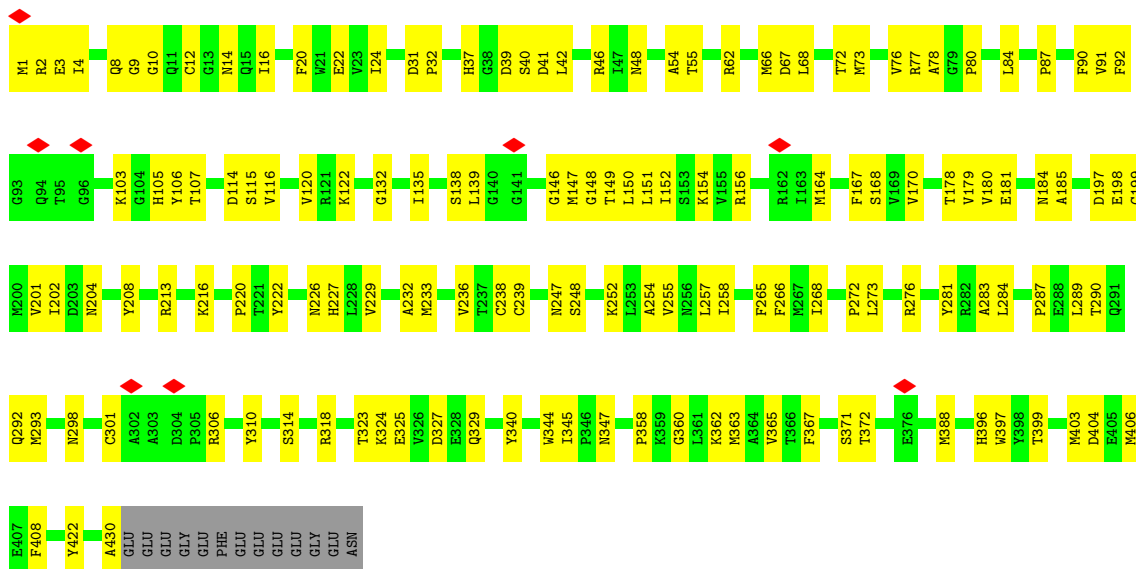
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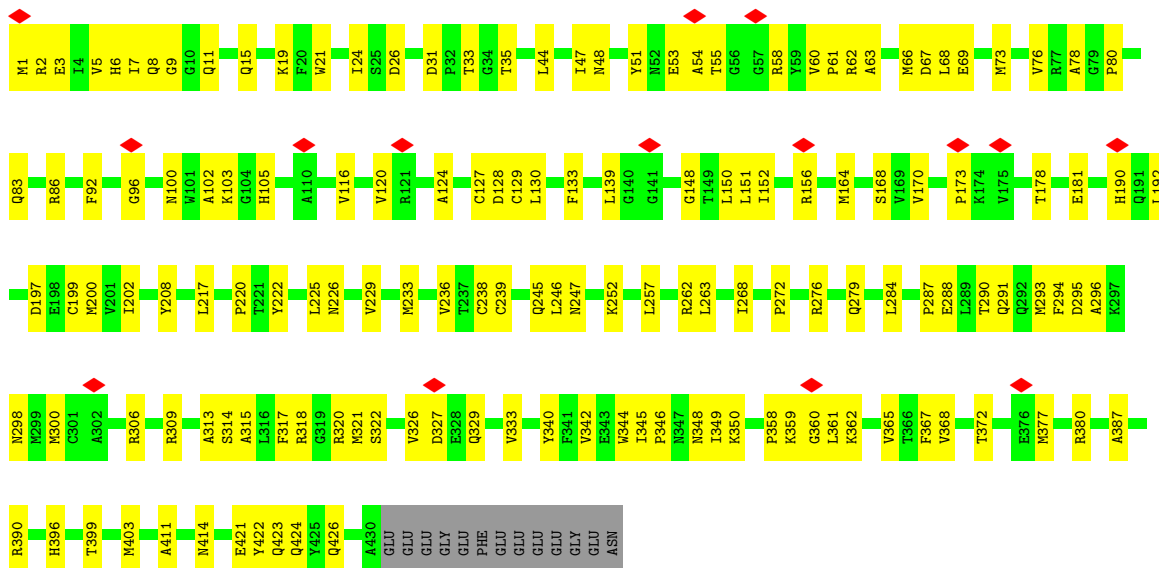




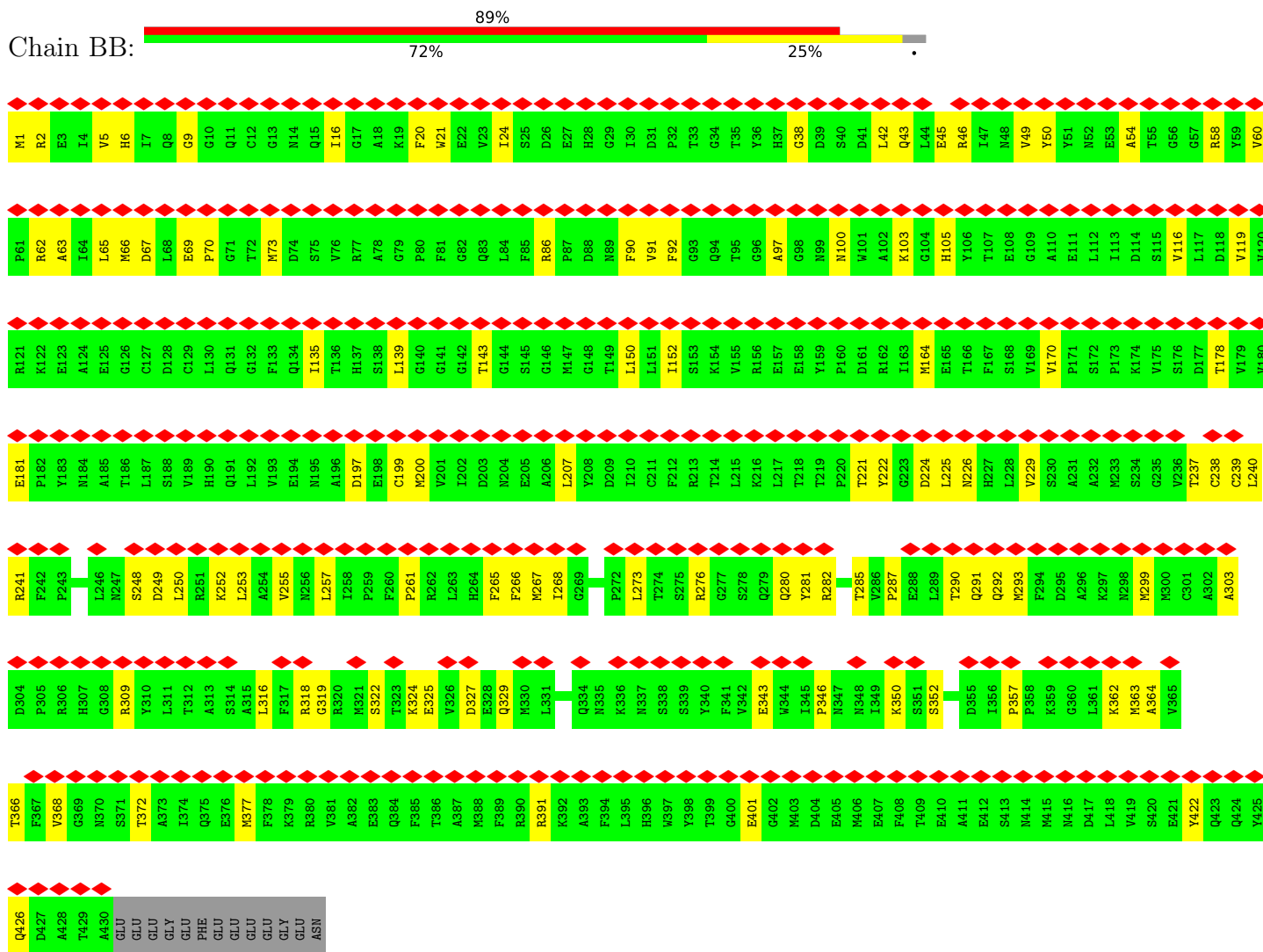
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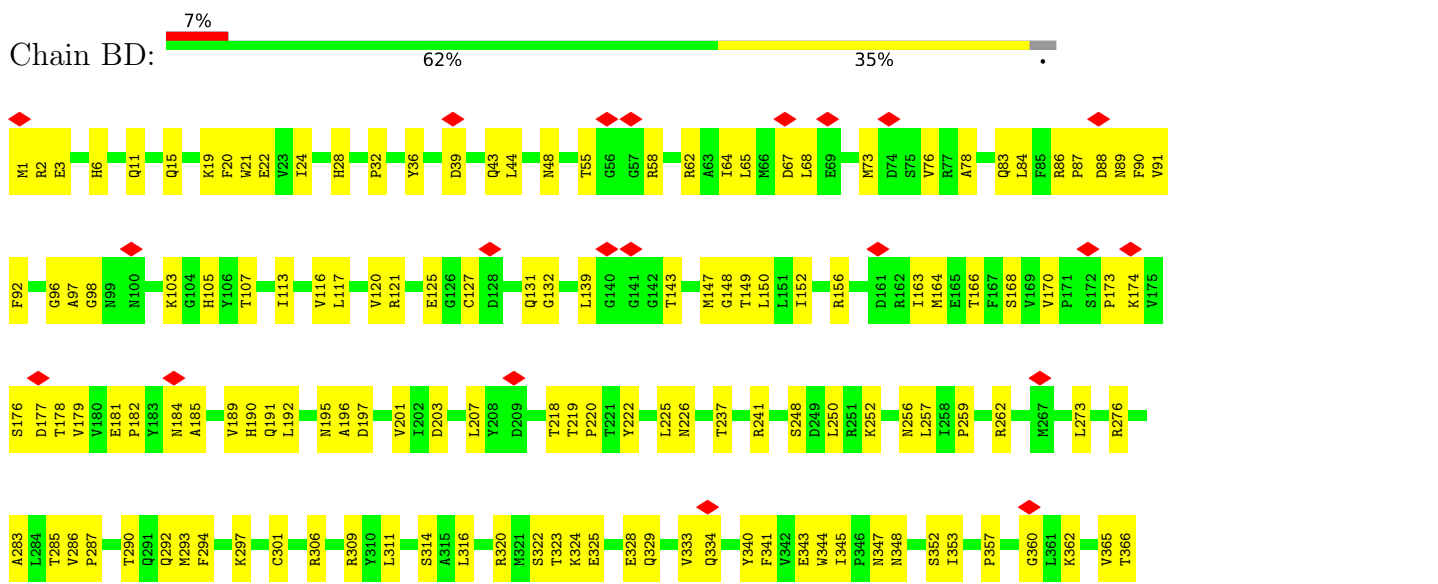
• Molecule 46: Tubulin beta chain



• Molecule 46: Tubulin beta chain

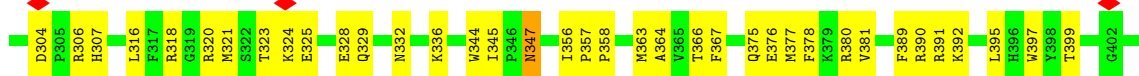
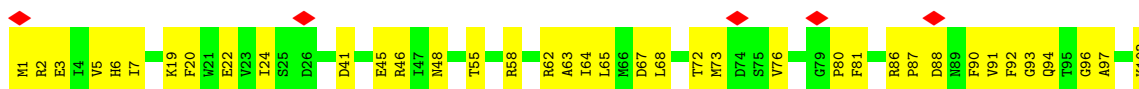


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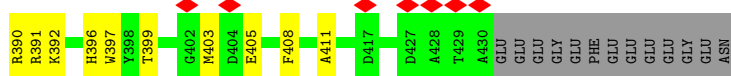




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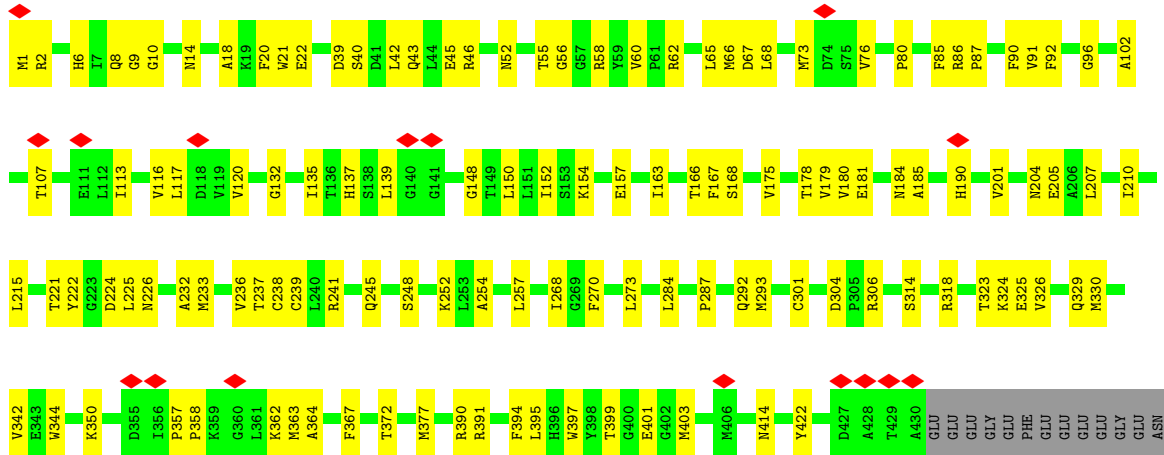


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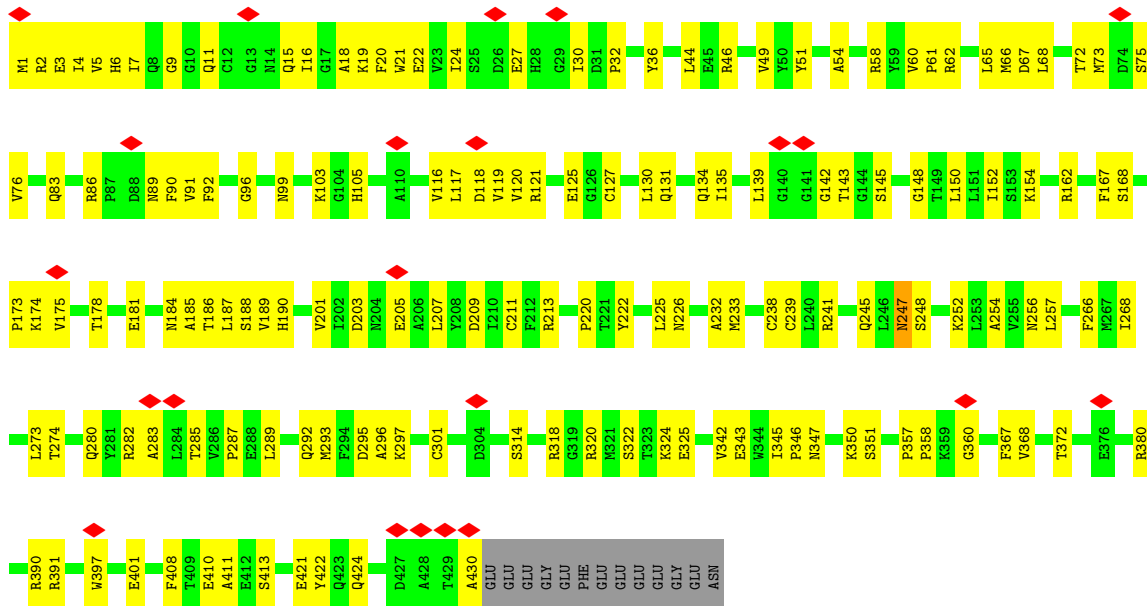


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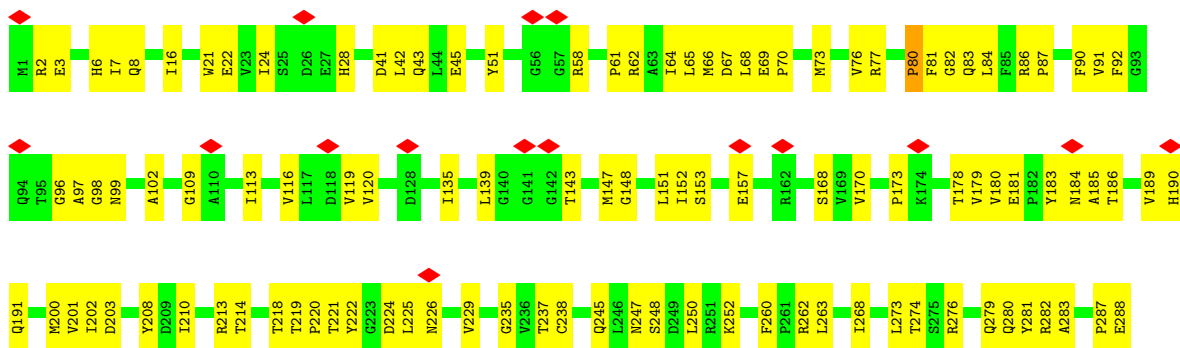


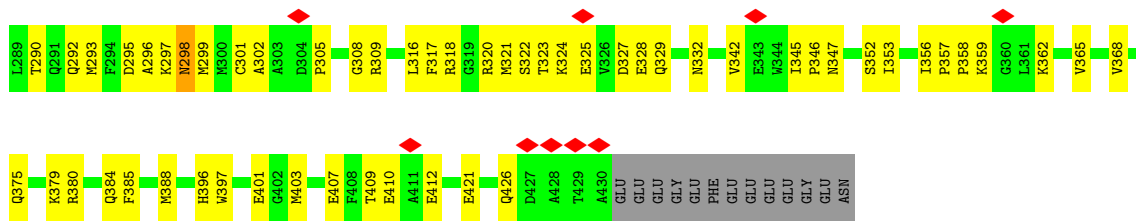


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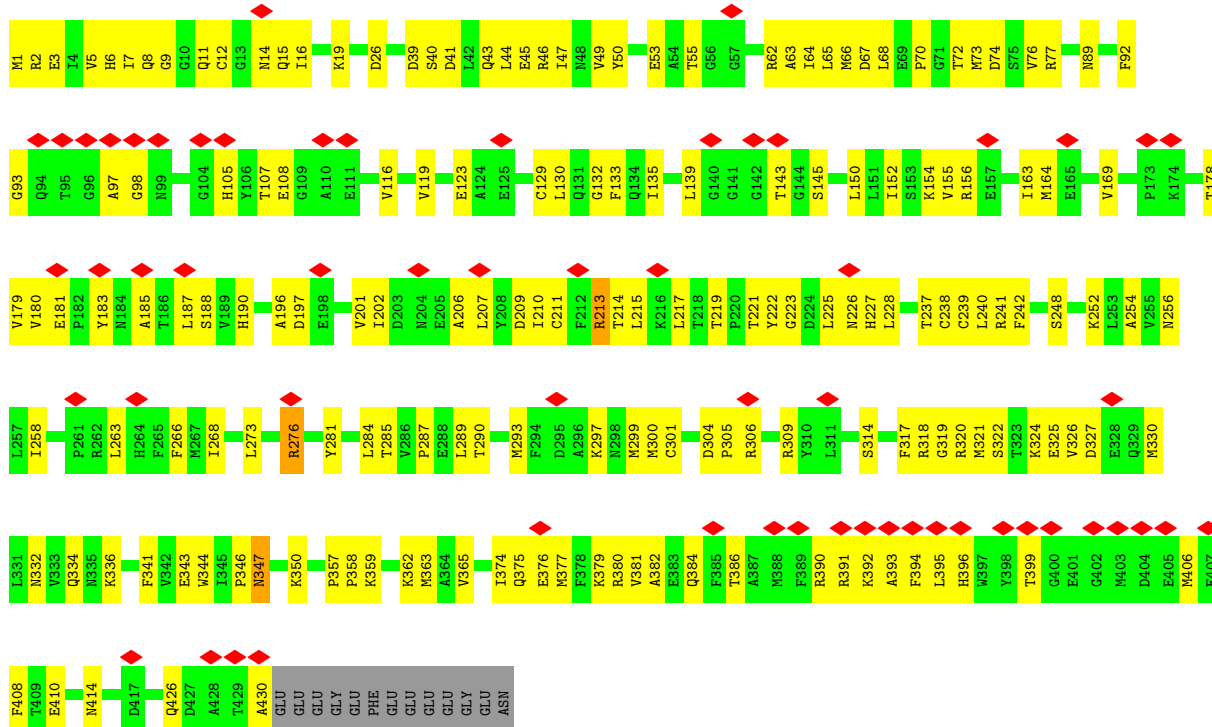


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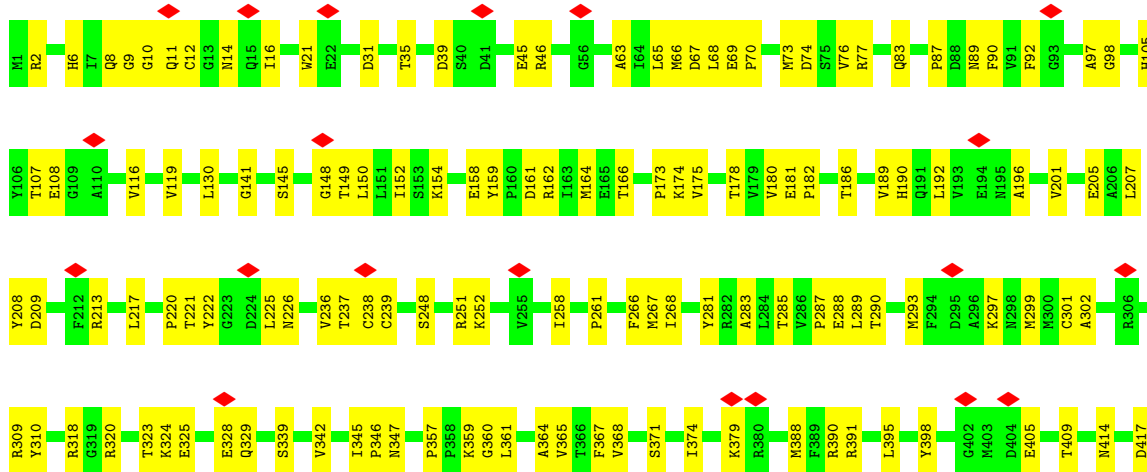


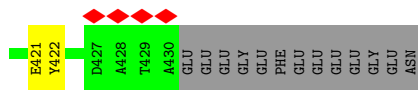


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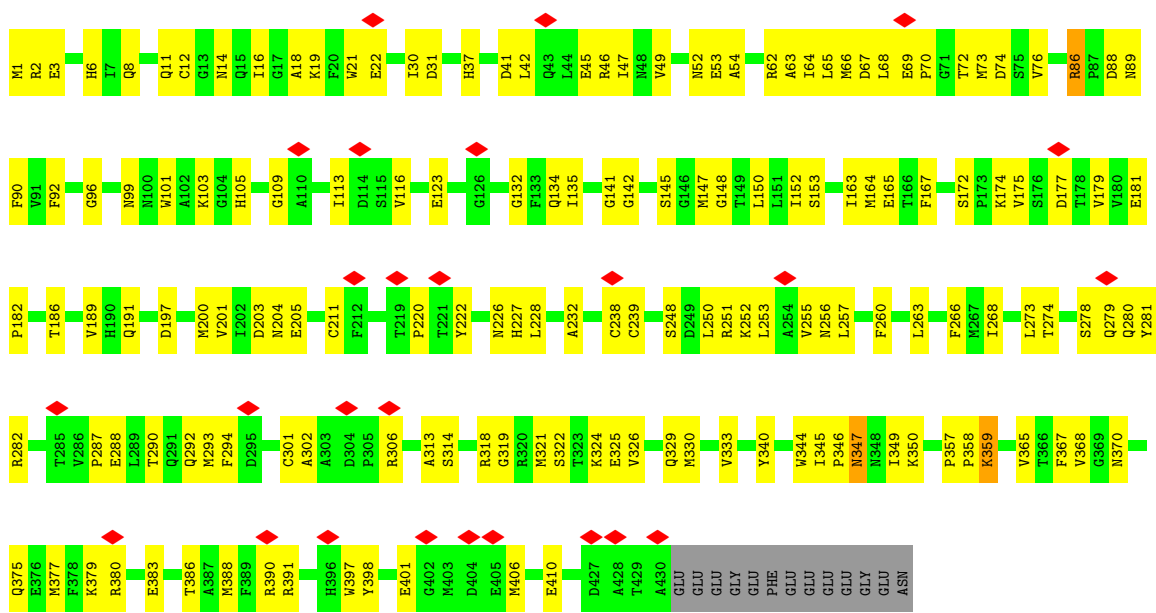


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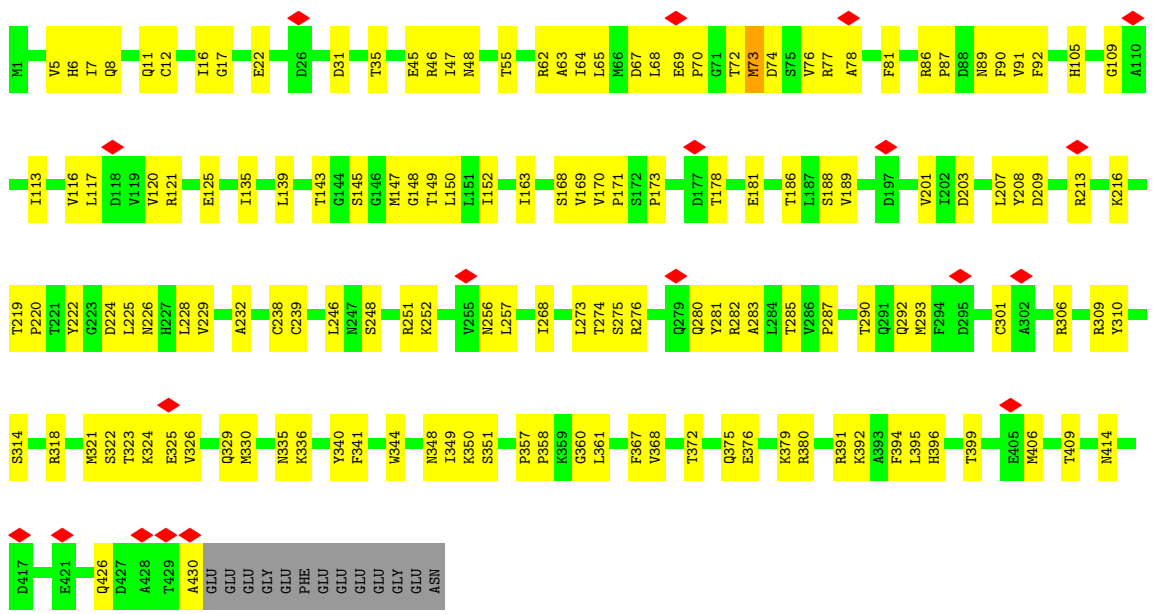




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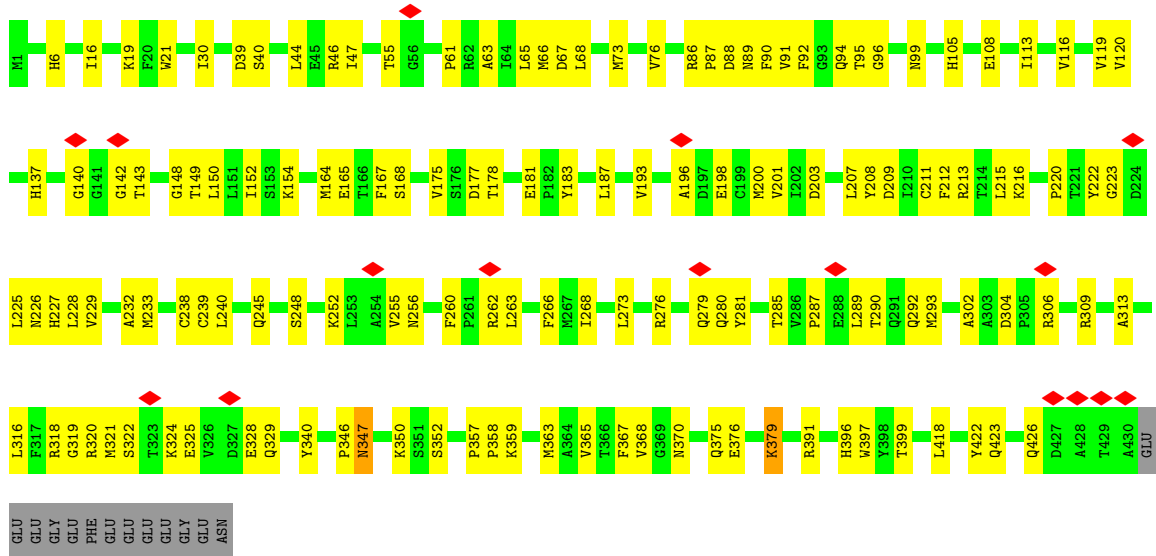


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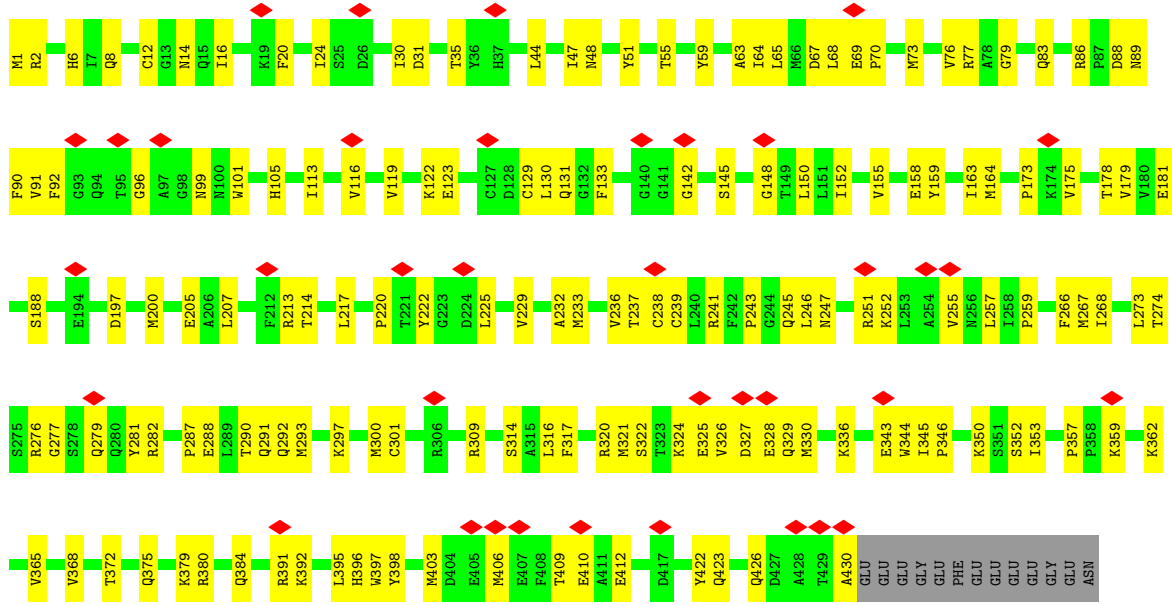


• Molecule 46: Tubulin beta chain

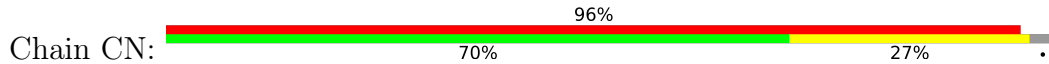


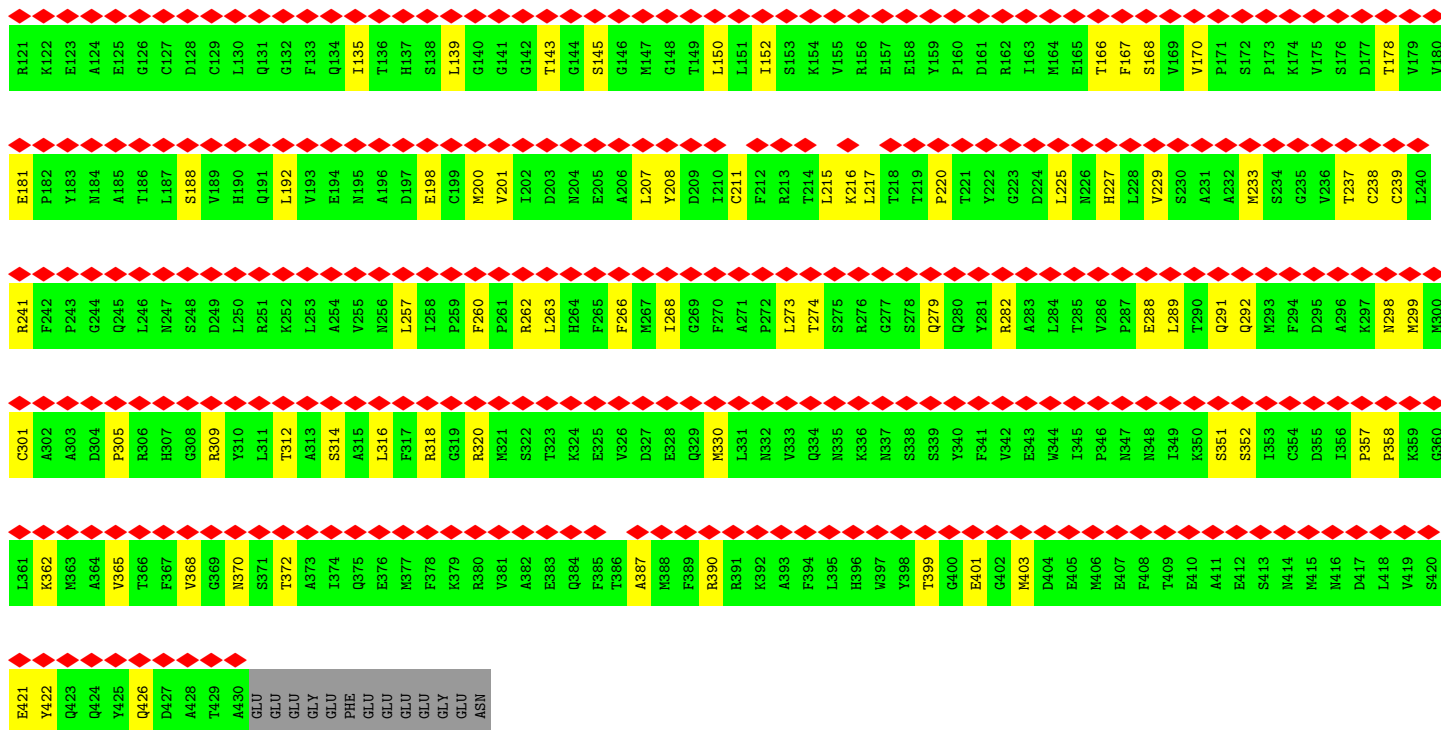


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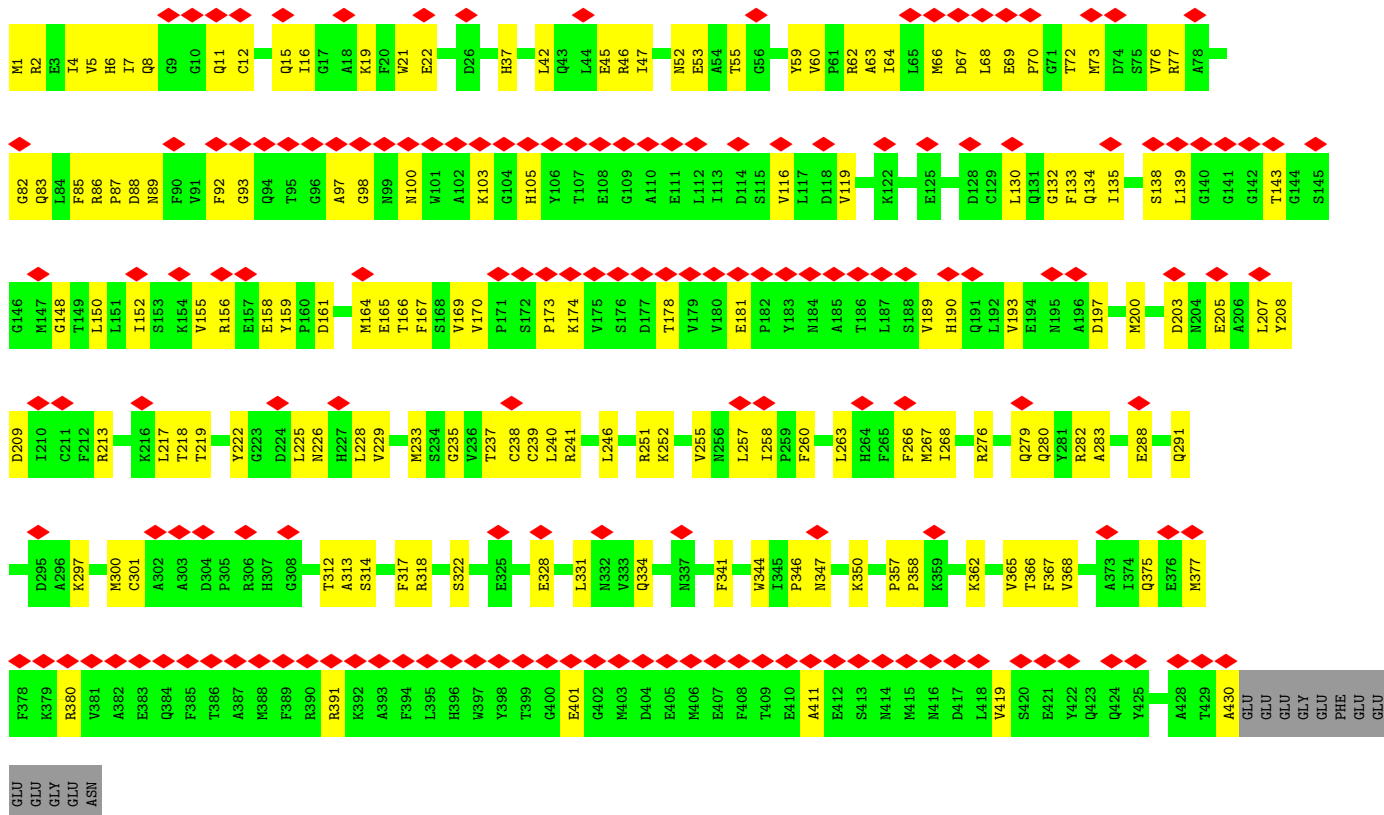
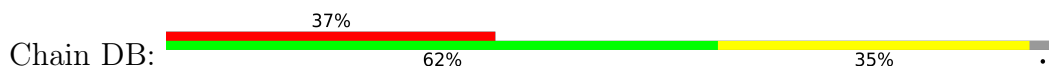


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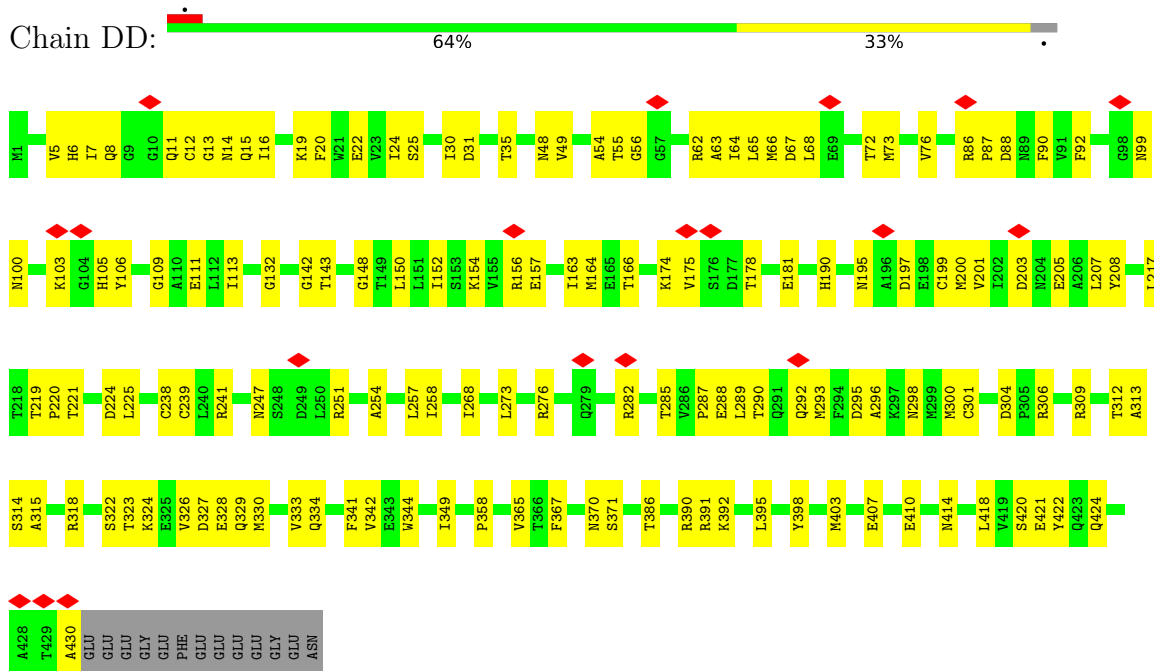
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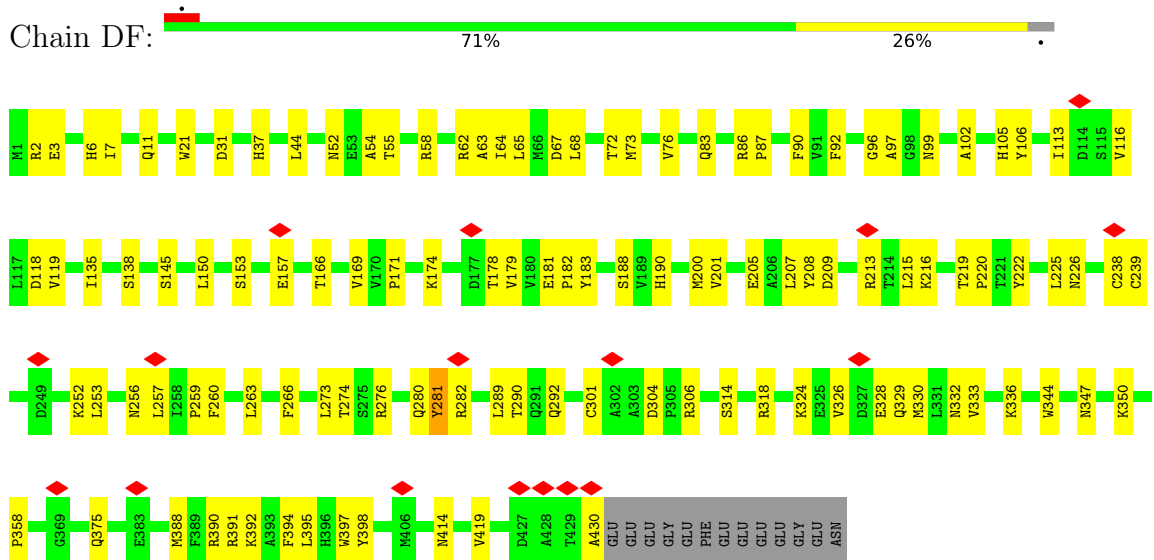
- Molecule 46: Tubulin beta chain

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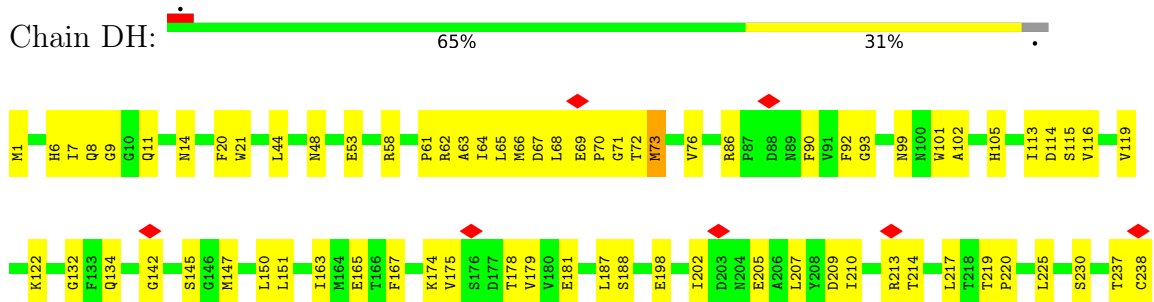
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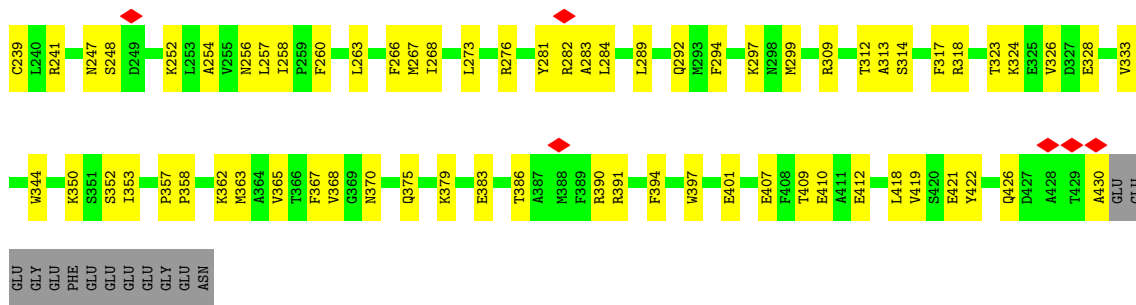
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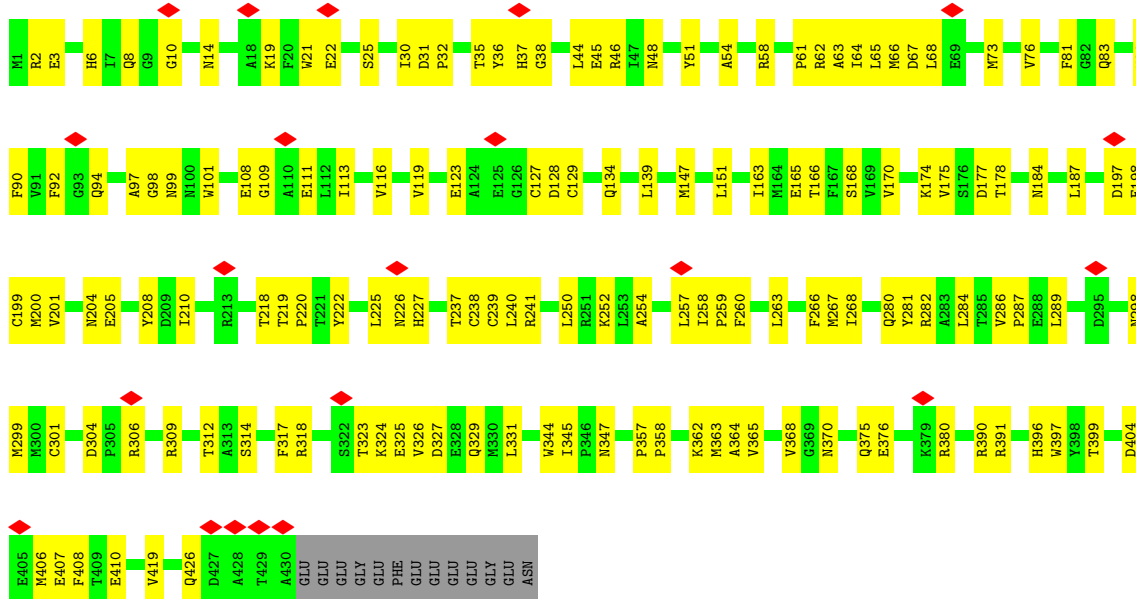
- Molecule 46: Tubulin beta chain

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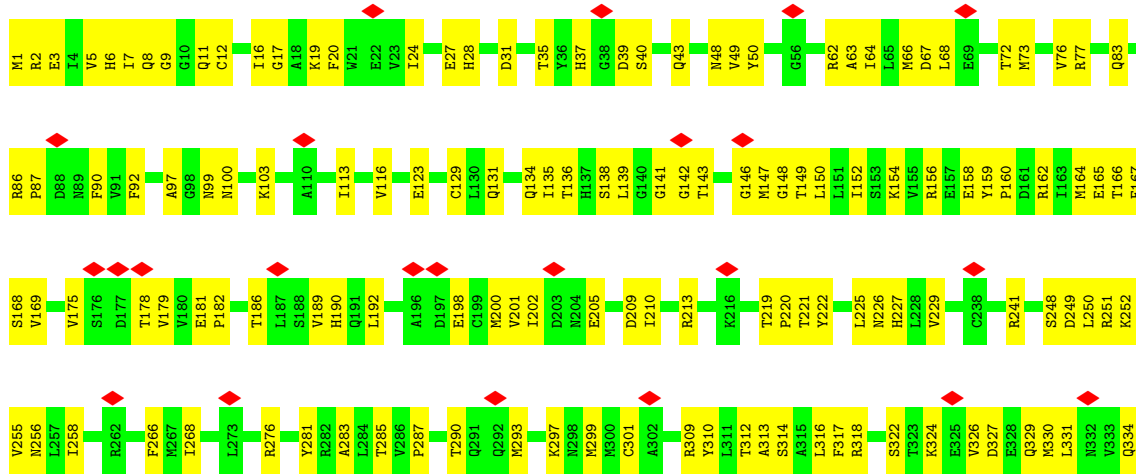


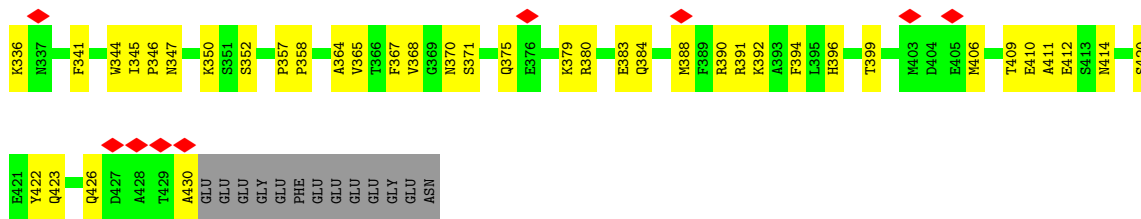


• Molecule 46: Tubulin beta chain

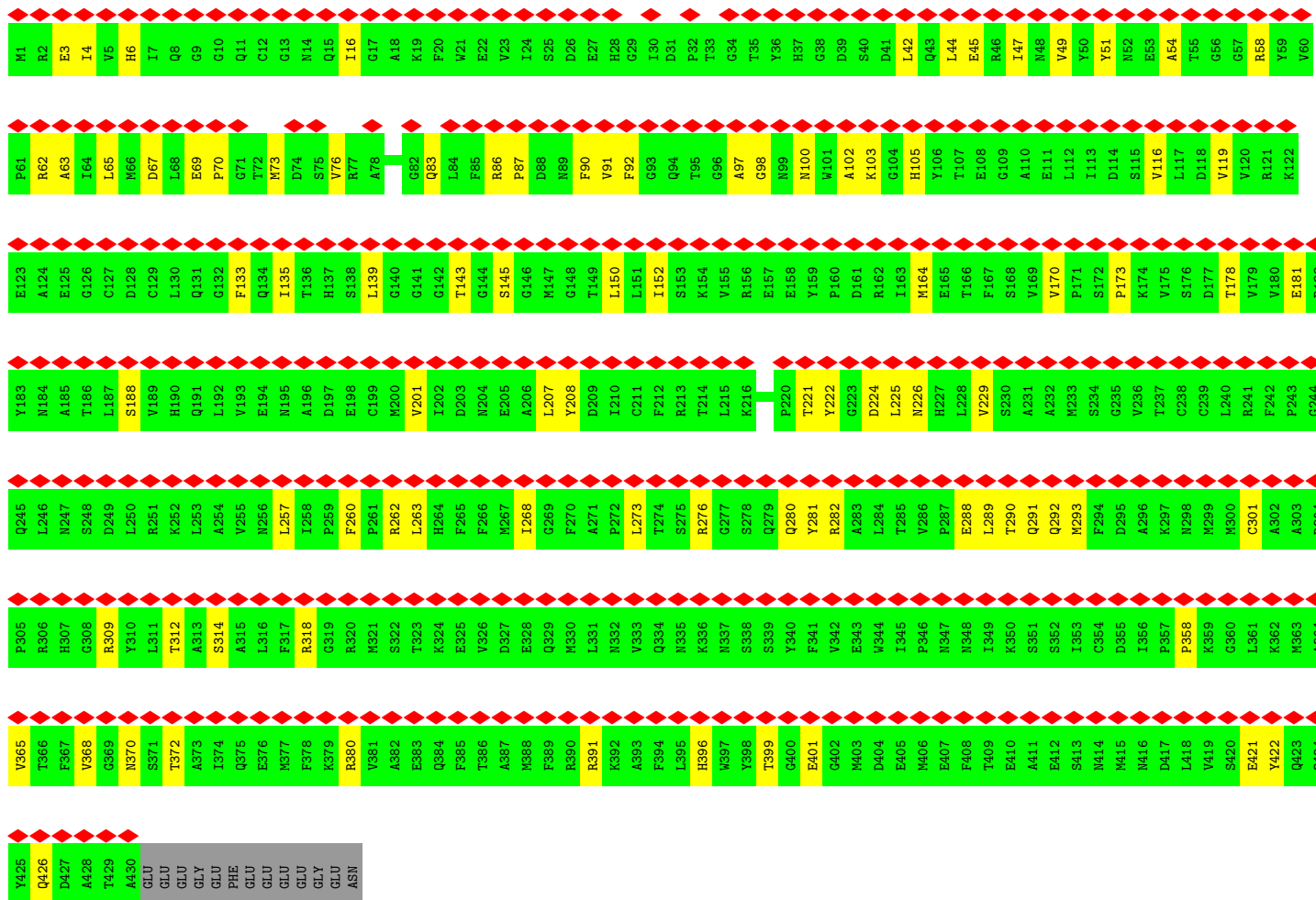
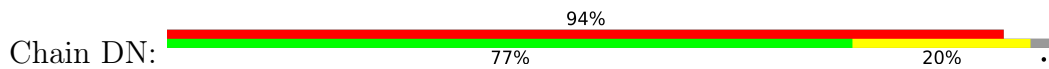


• Molecule 46: Tubulin beta chain

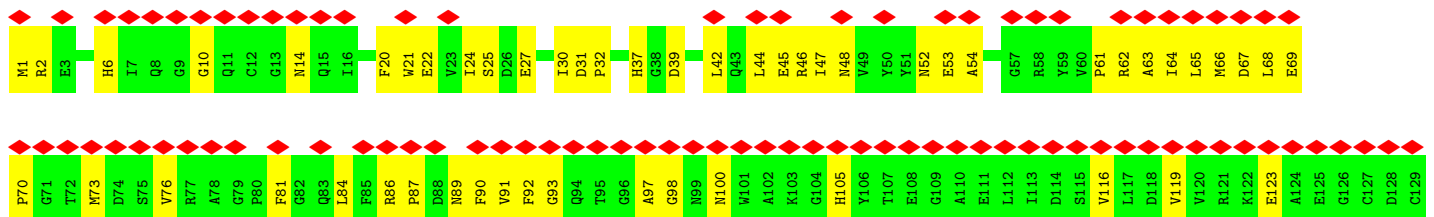


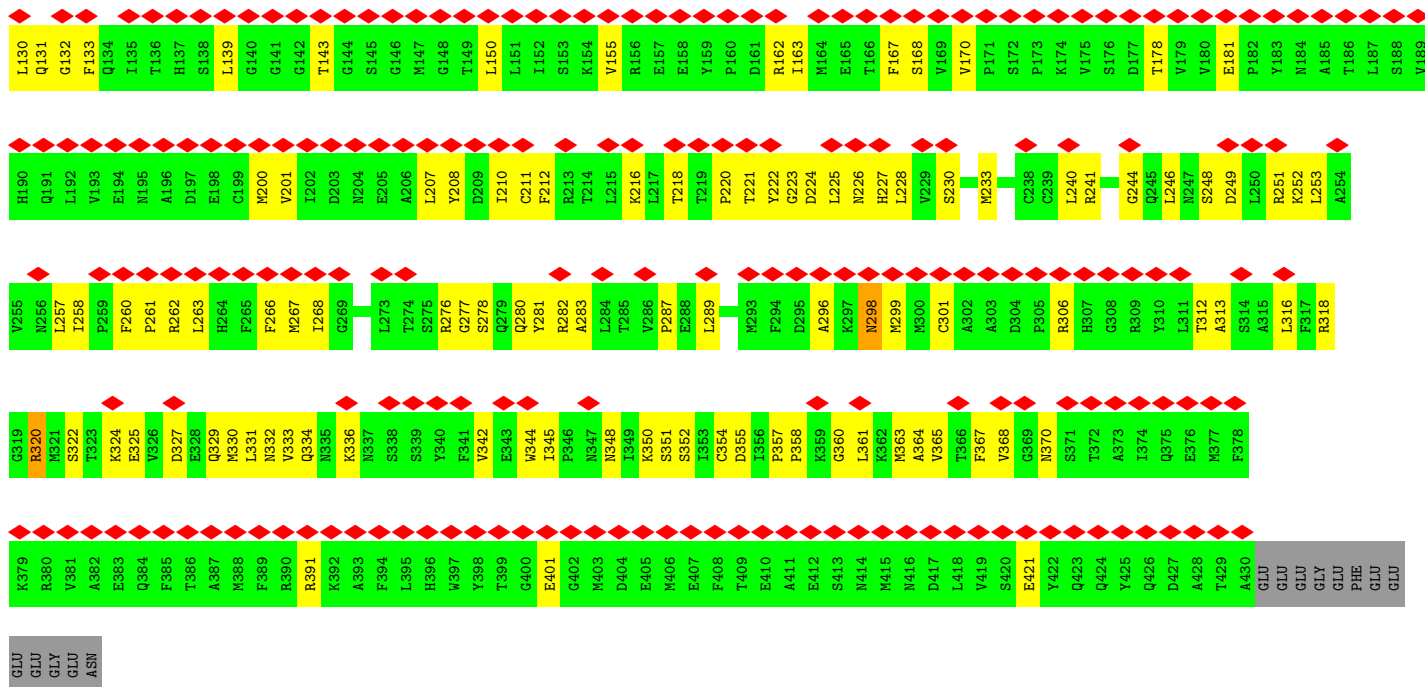


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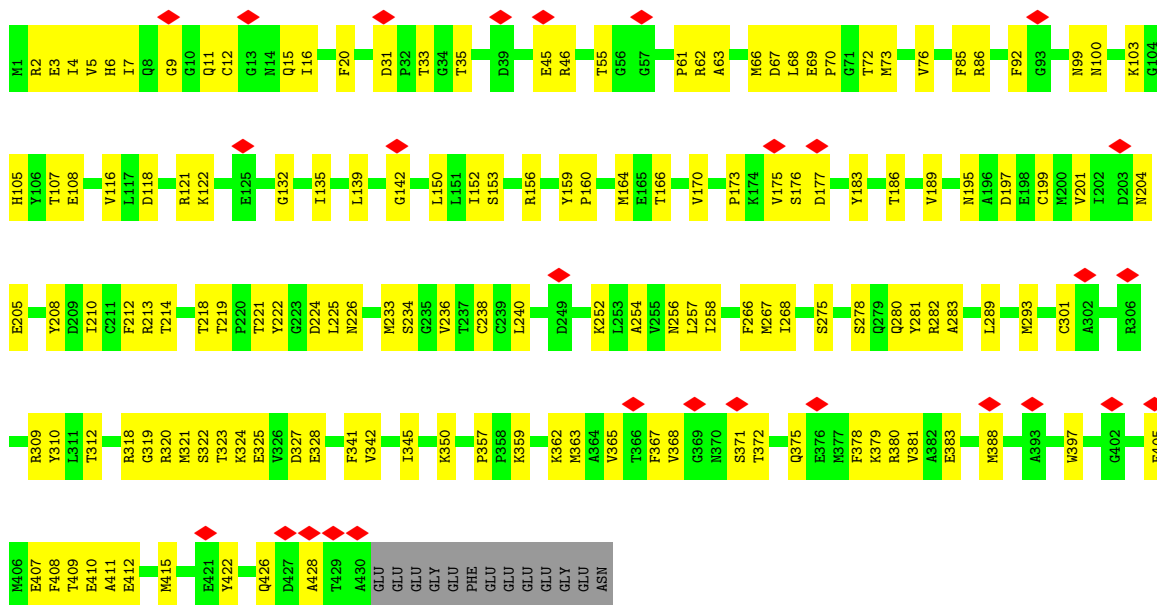


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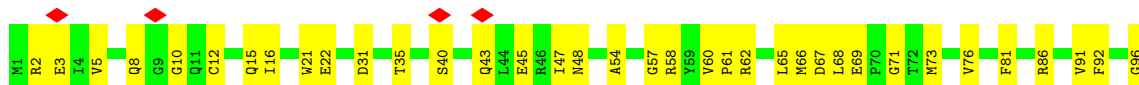


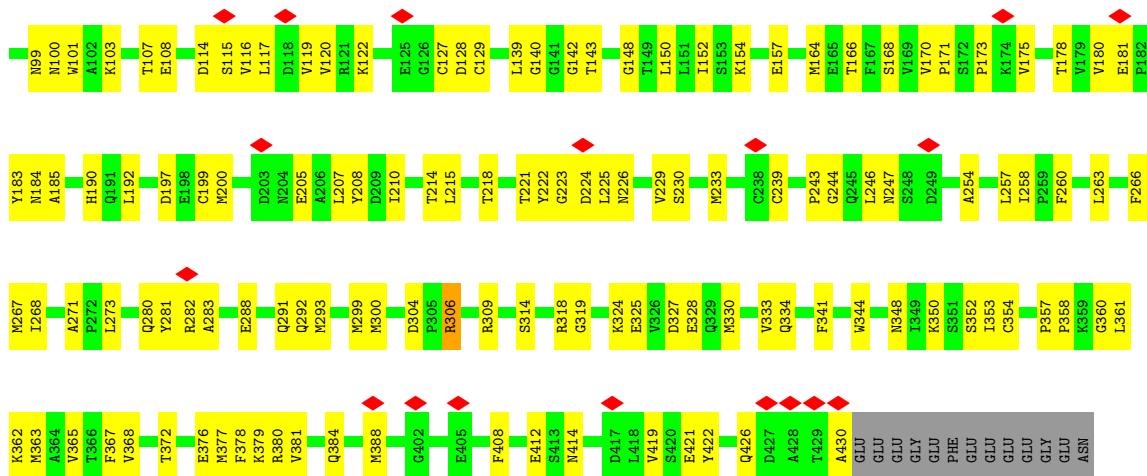


• Molecule 46: Tubulin beta chain

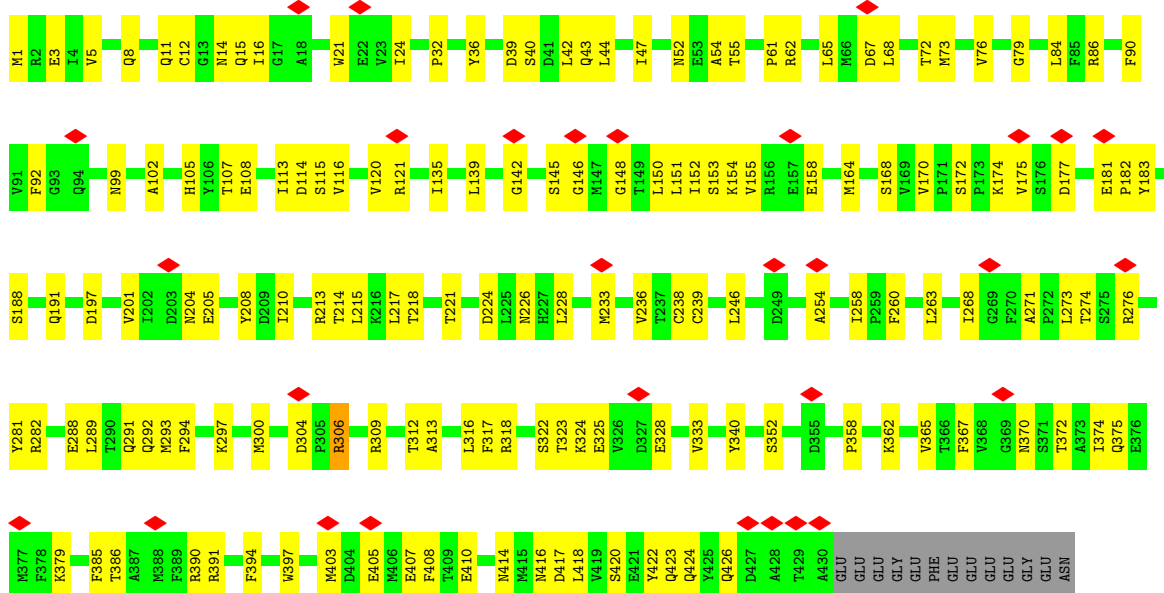


• Molecule 46: Tubulin beta chain

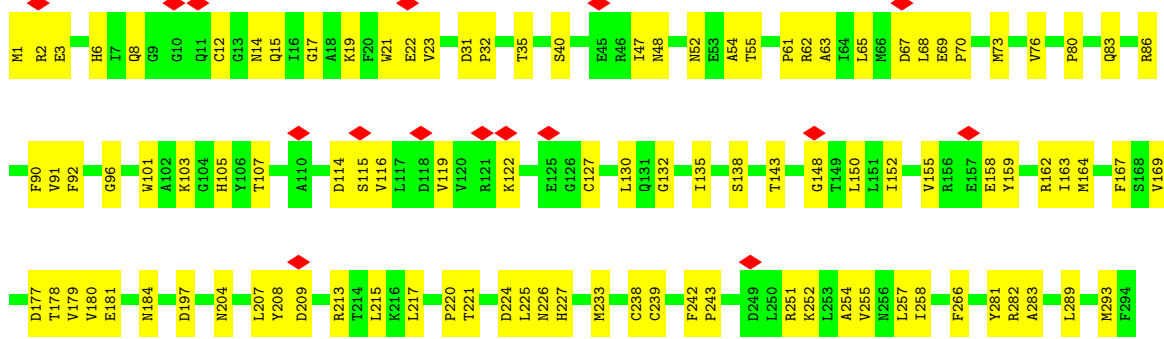


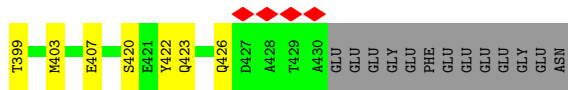


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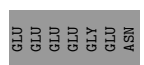
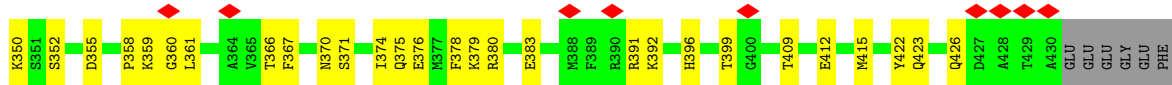
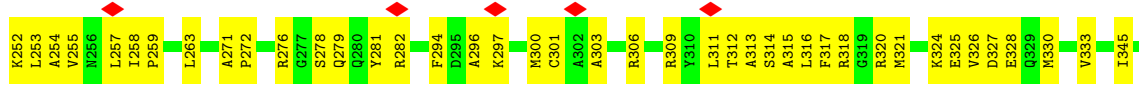
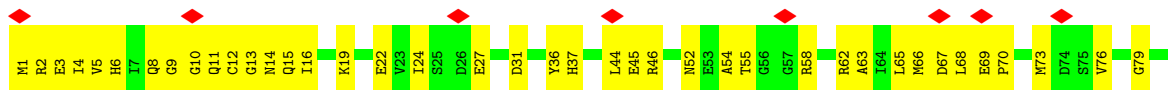


• Molecule 46: Tubulin beta chain

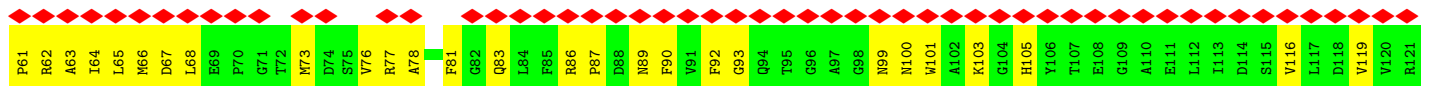




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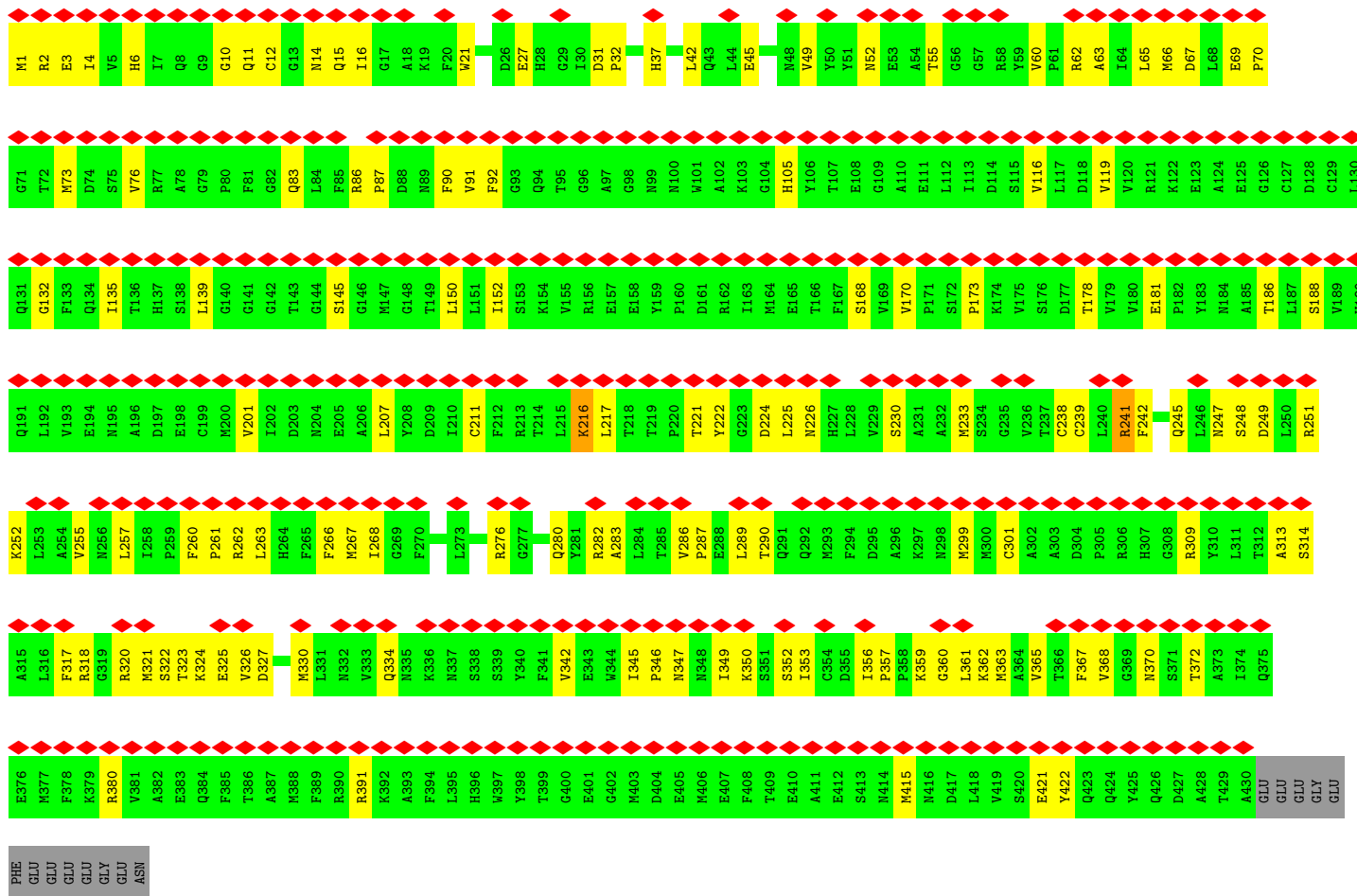
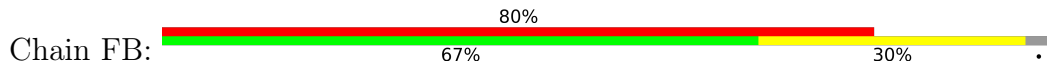


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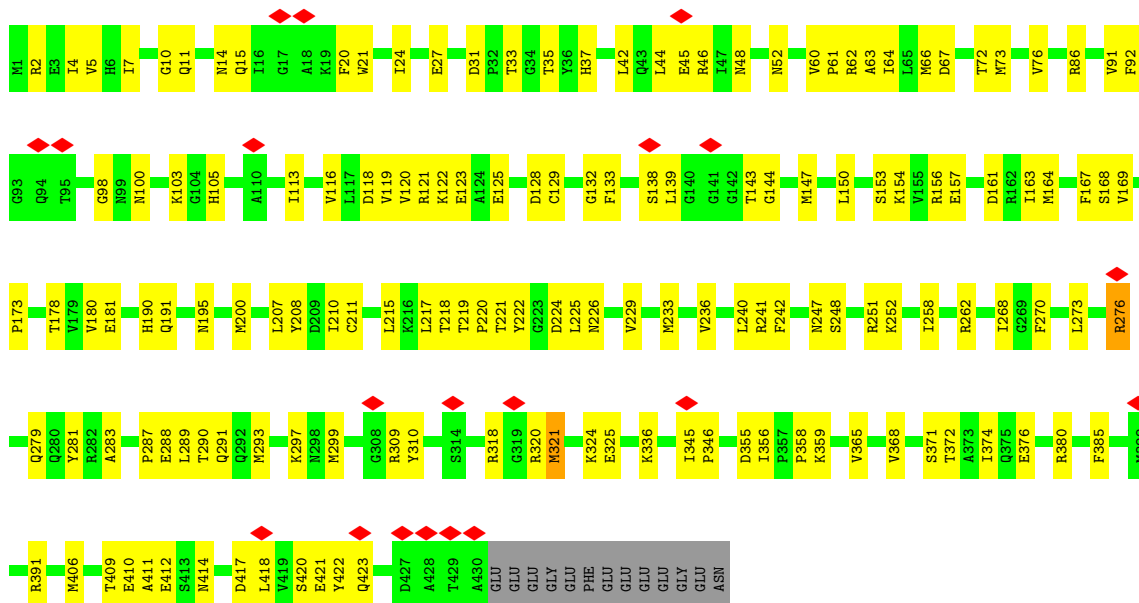


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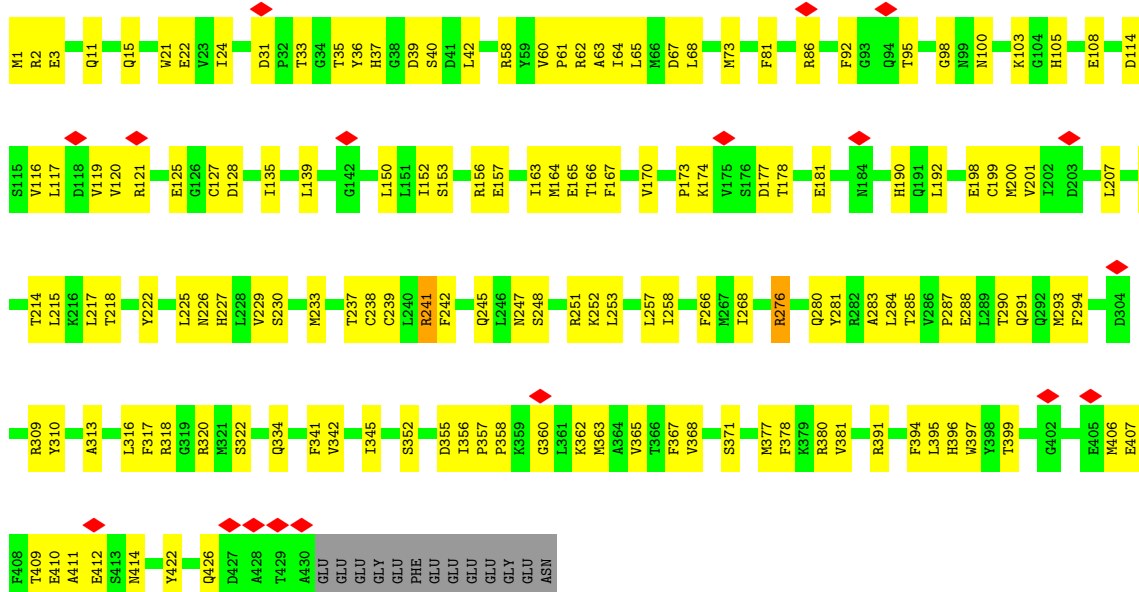


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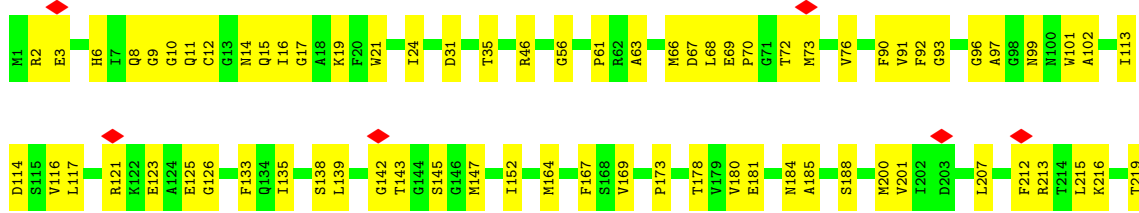




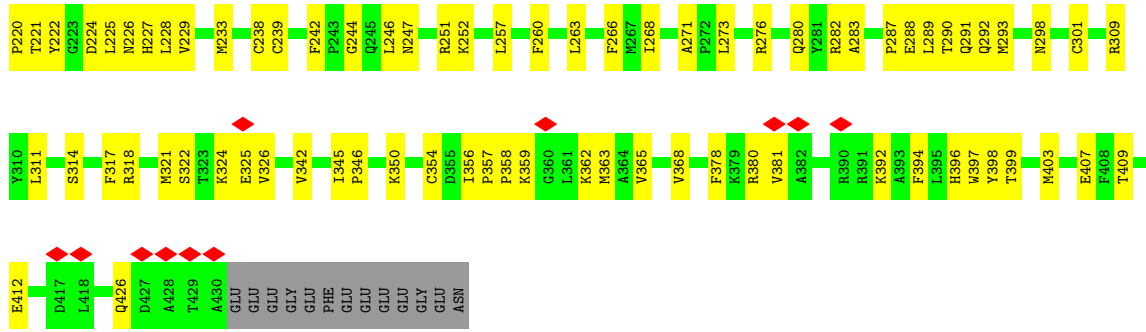
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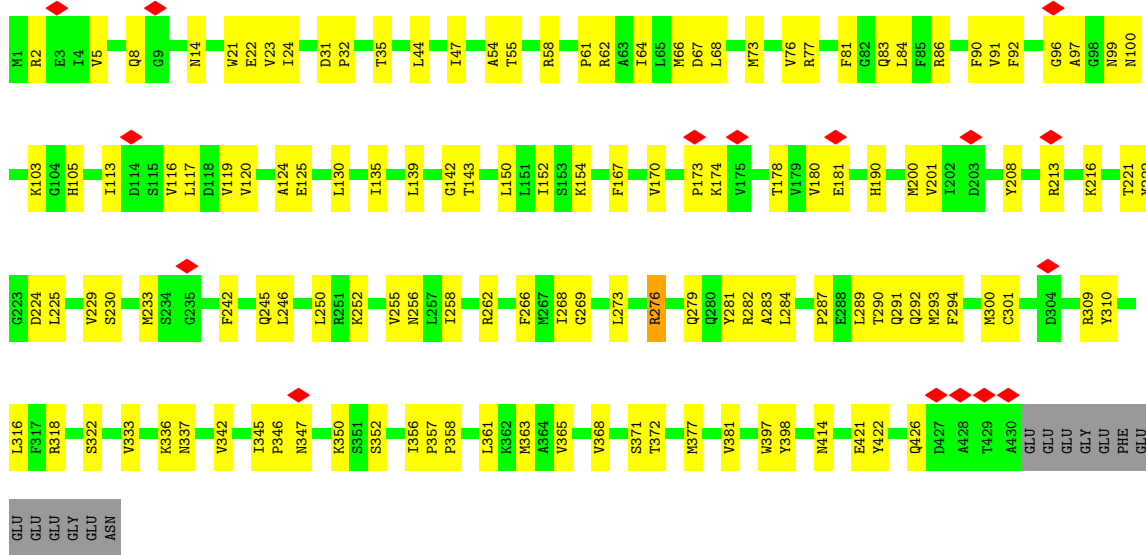
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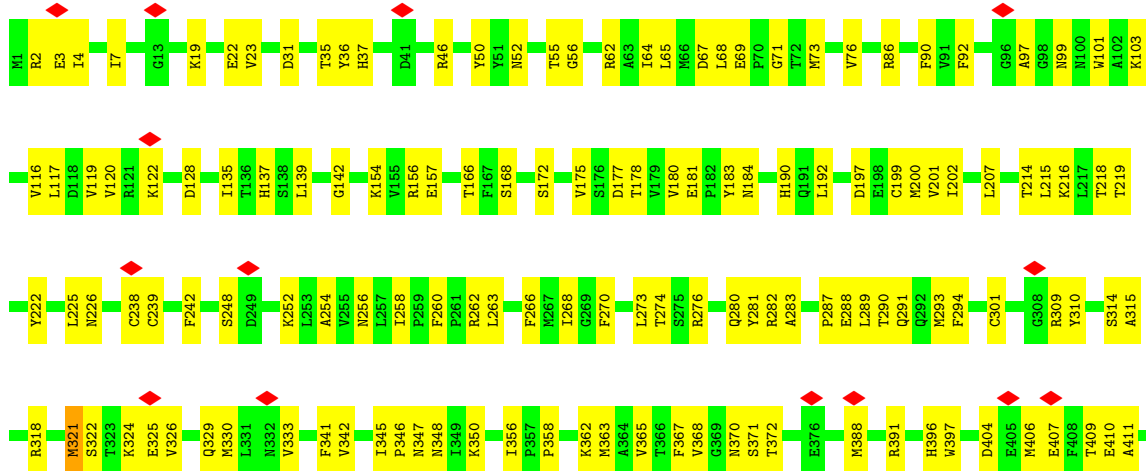


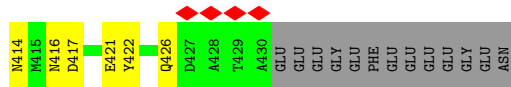


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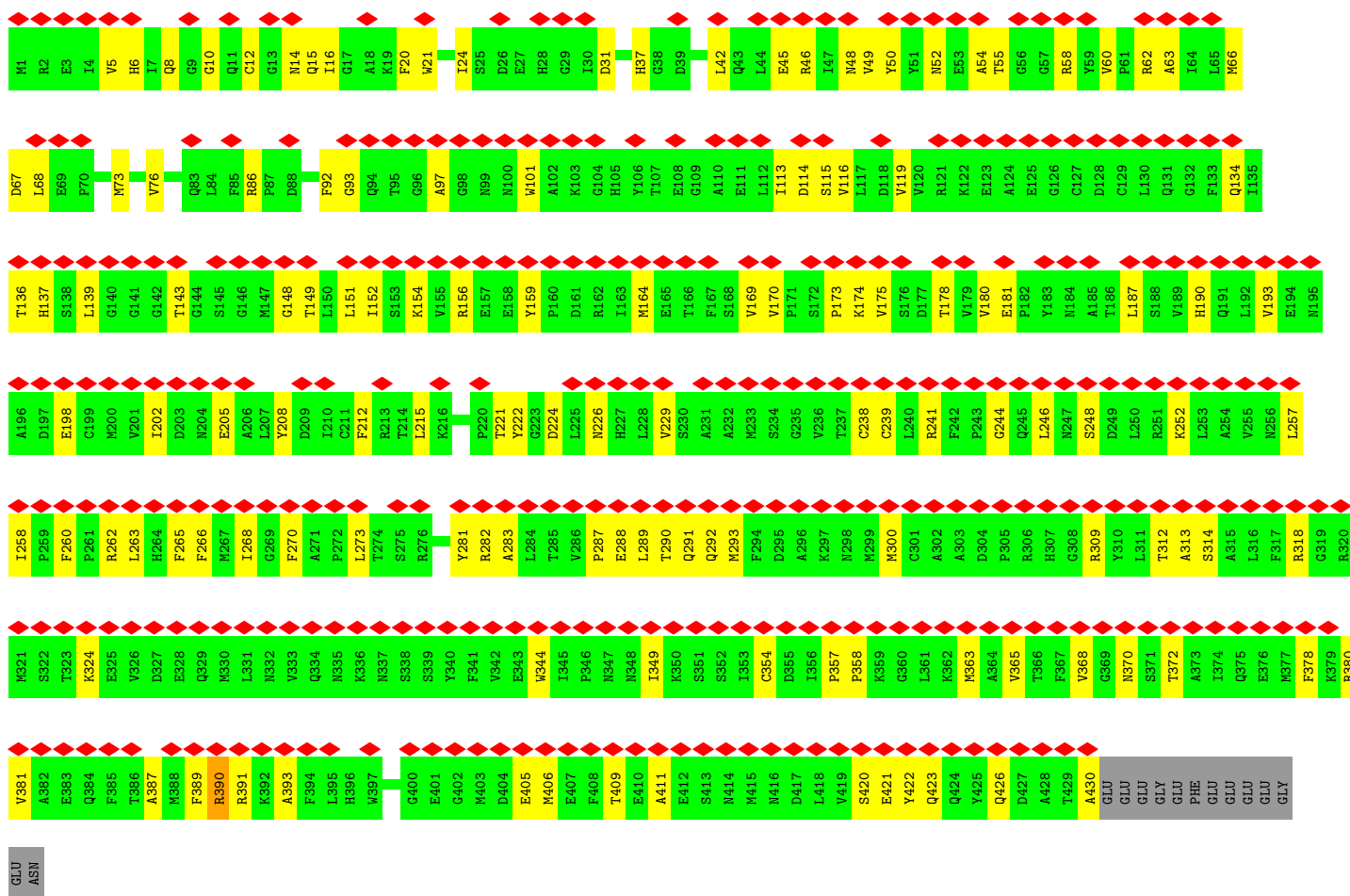
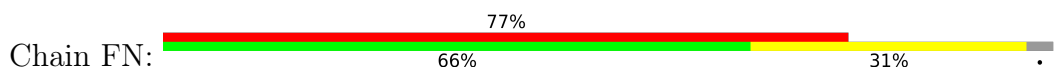


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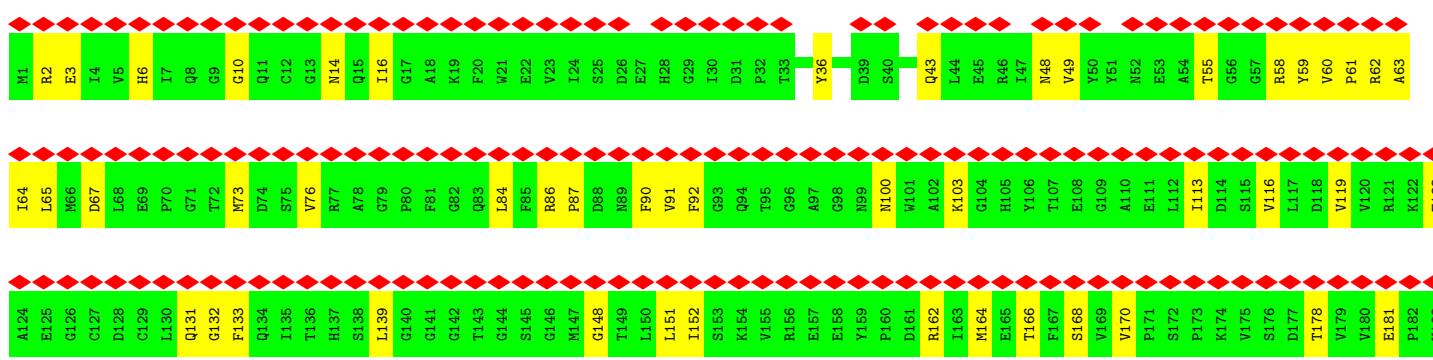
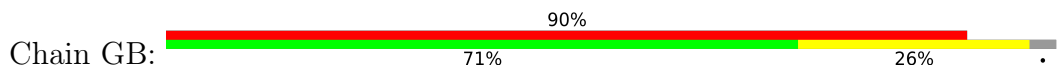


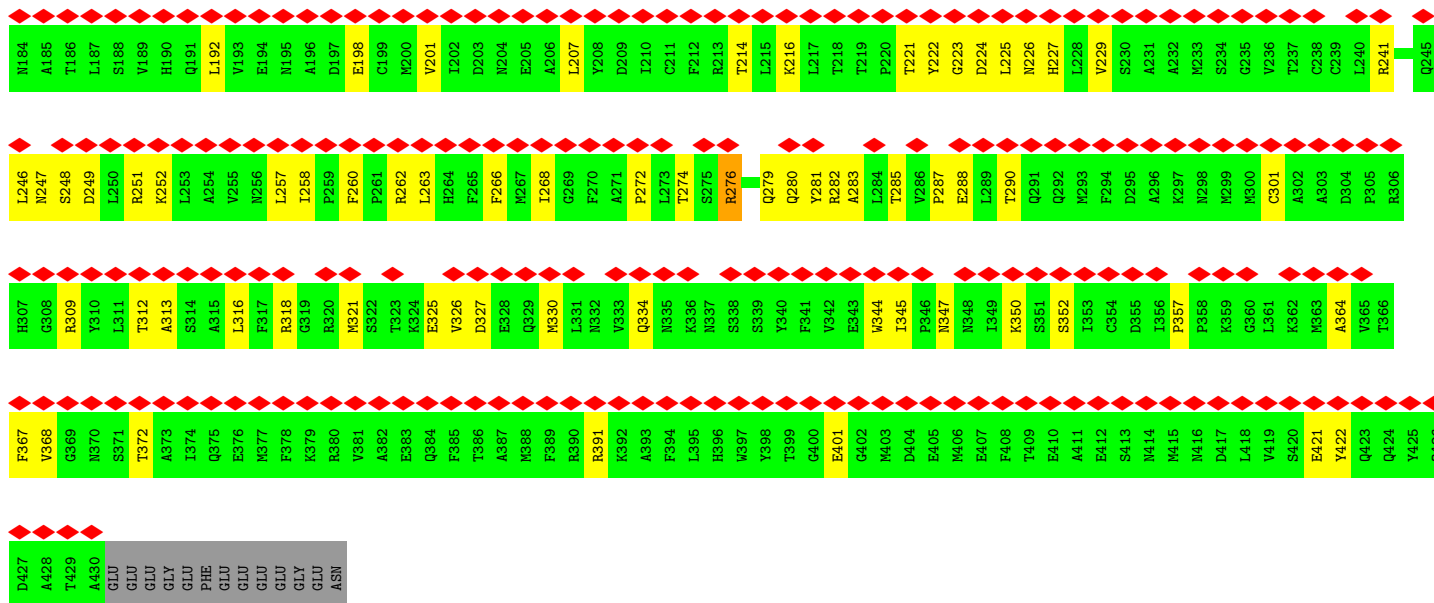


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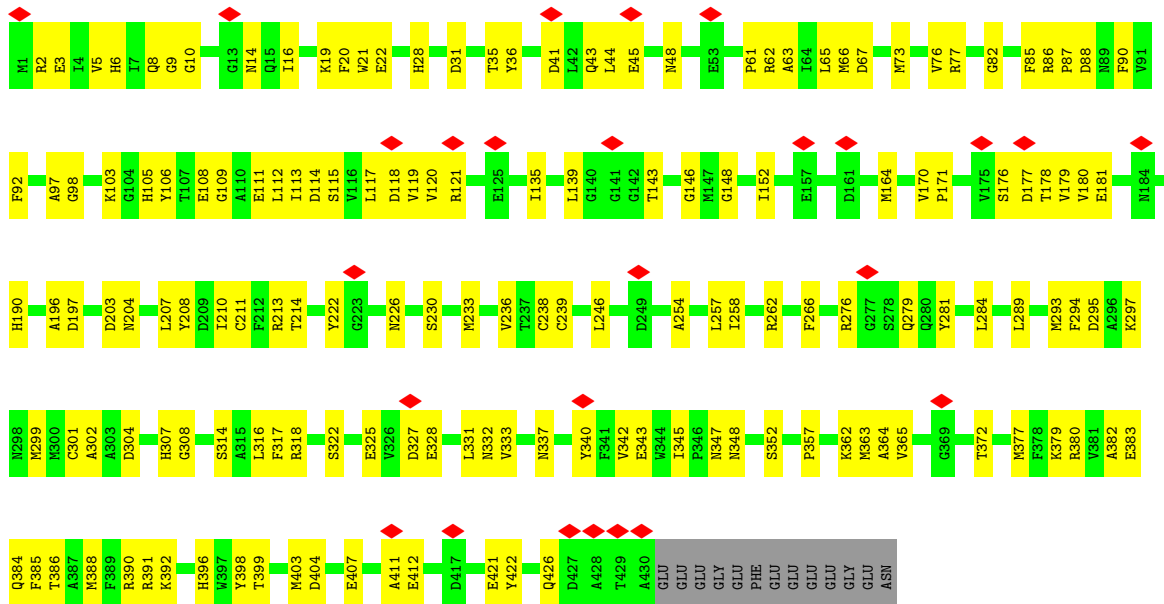


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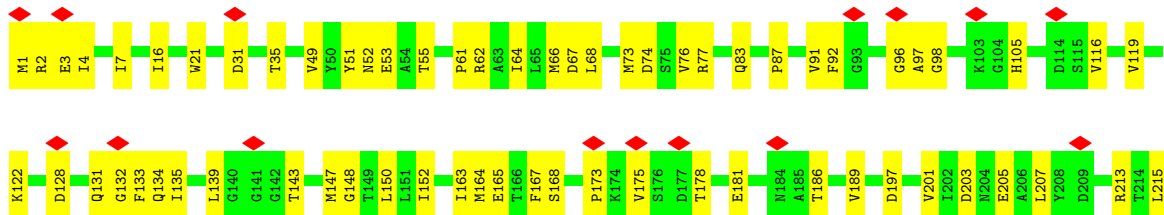


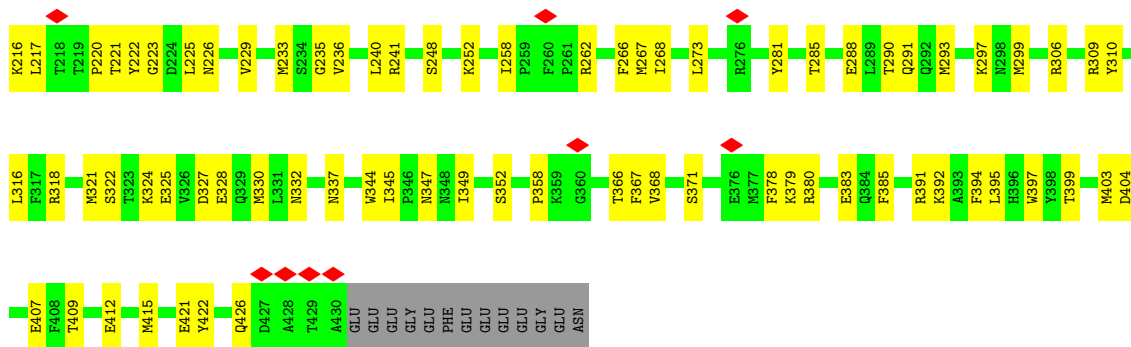


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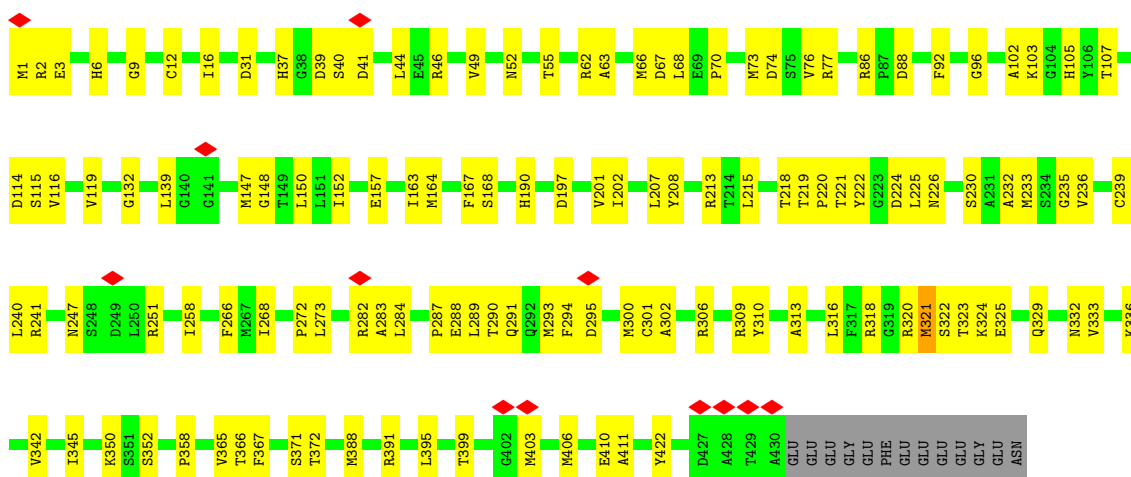


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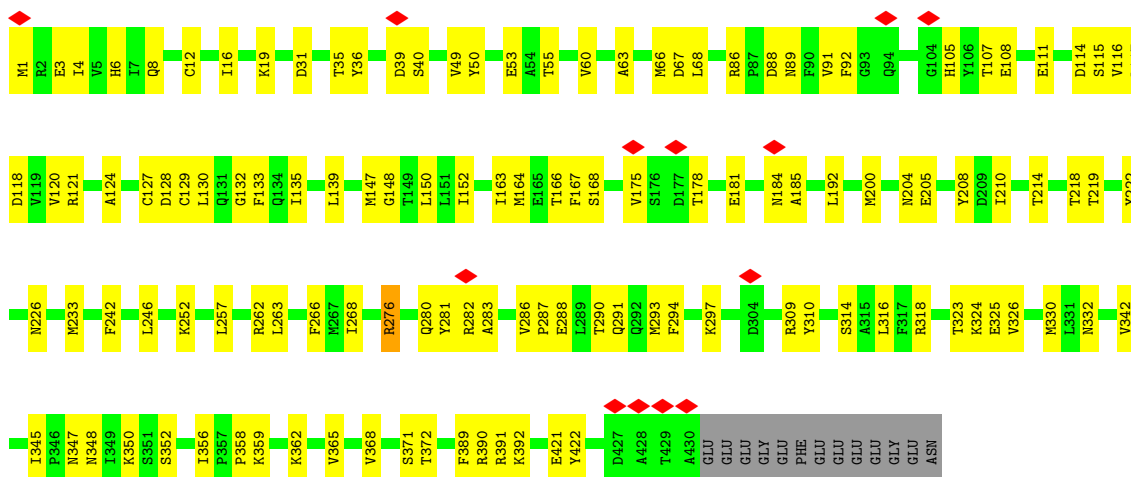




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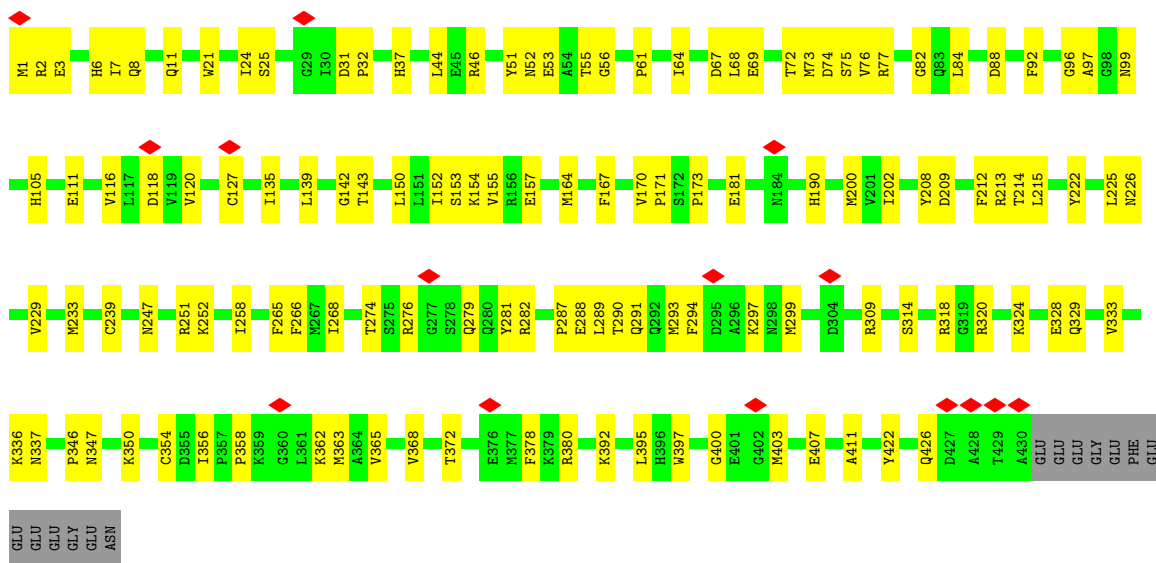


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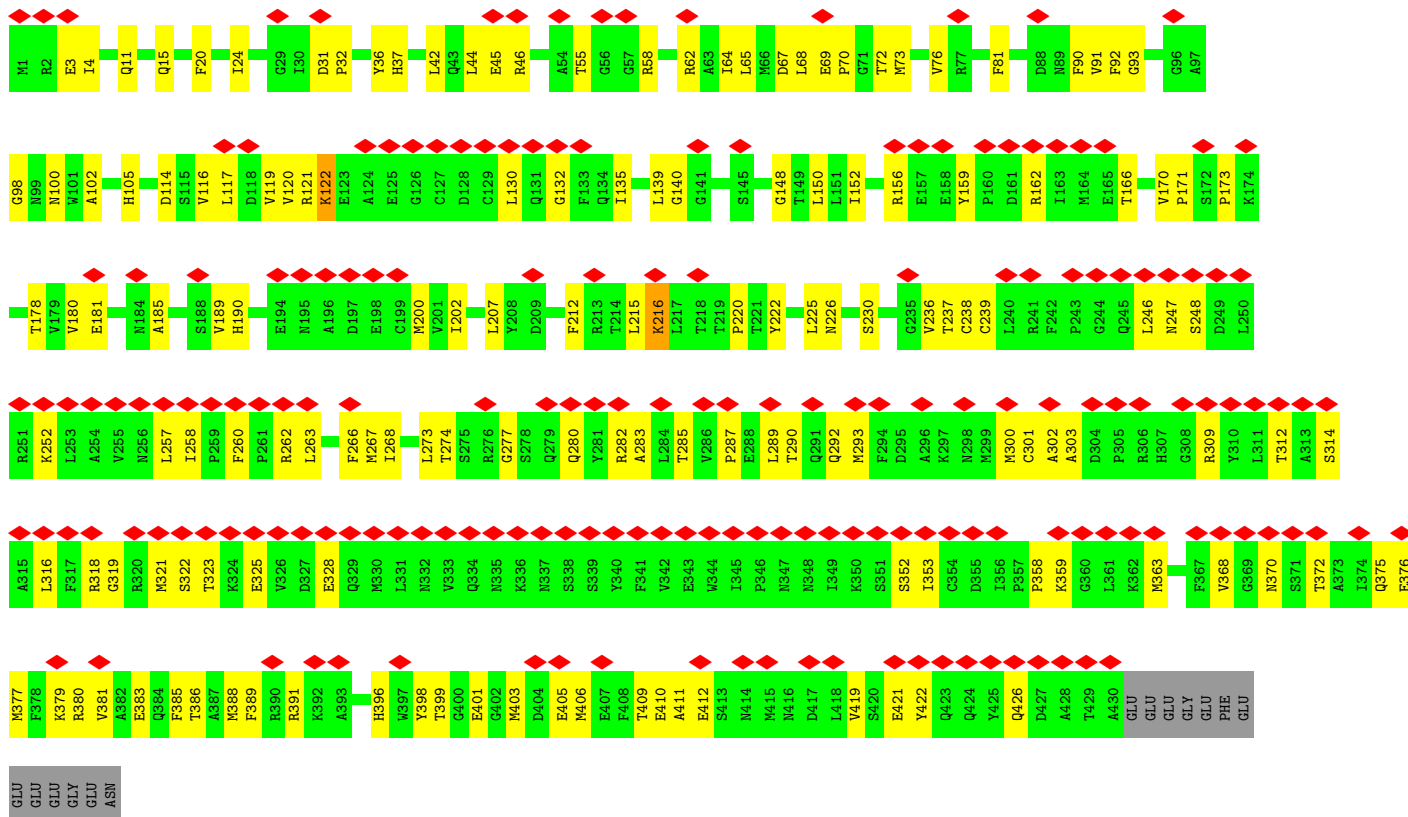
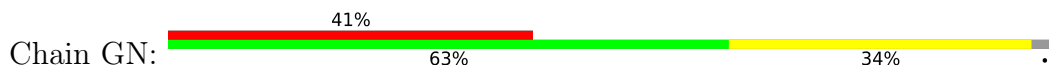


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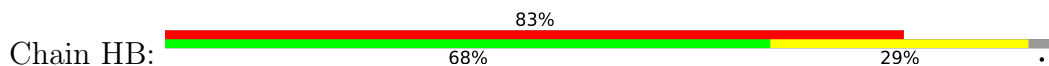


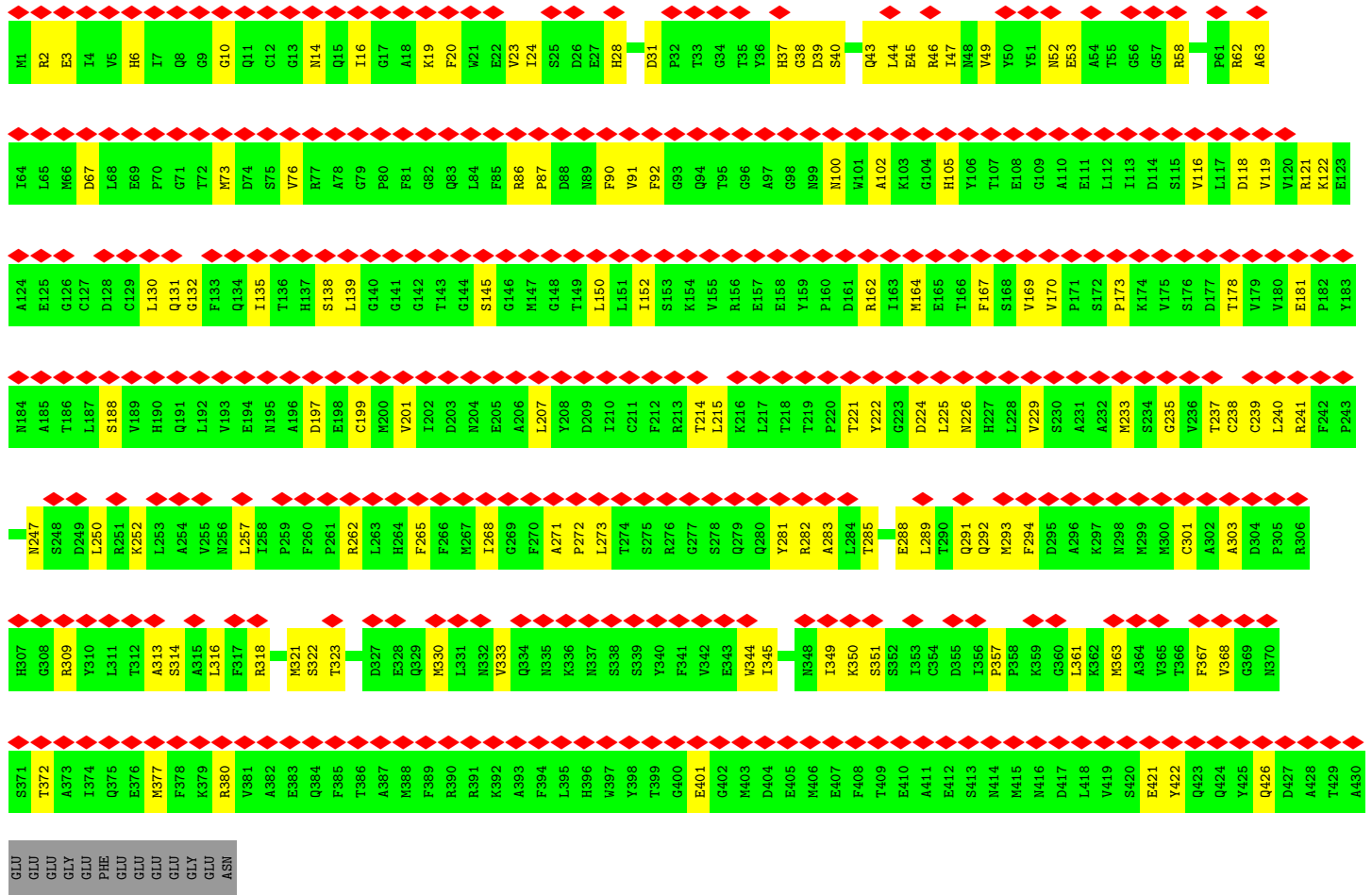


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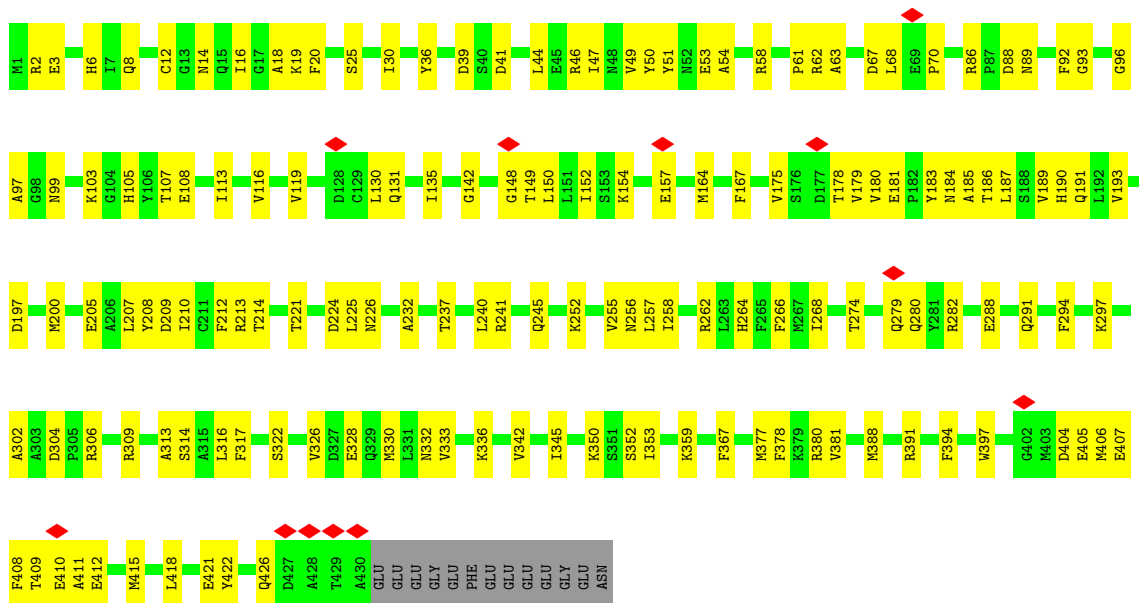


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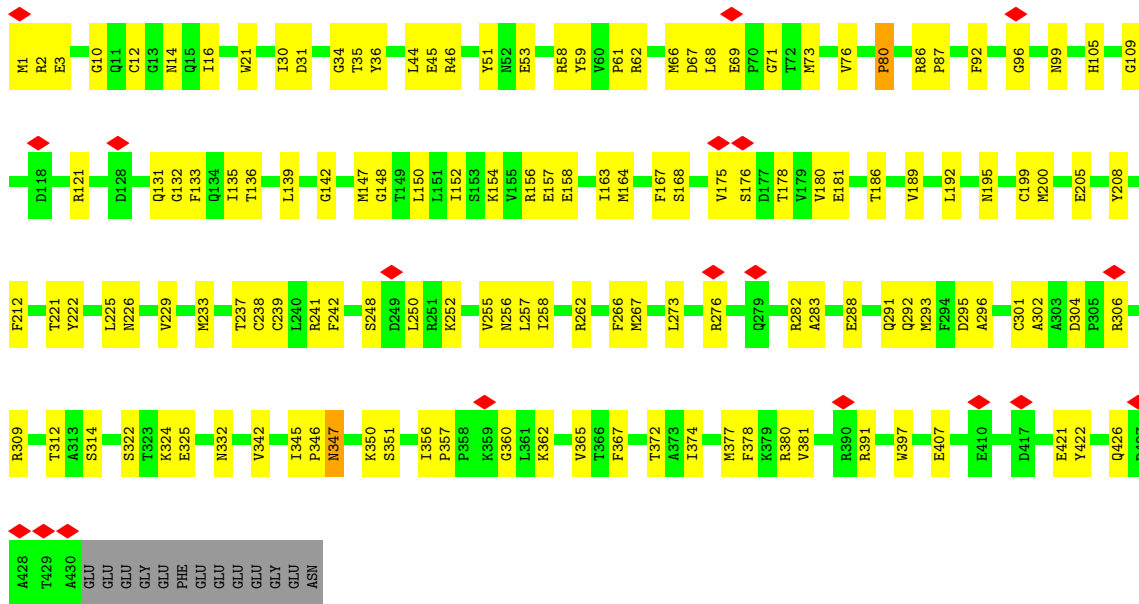




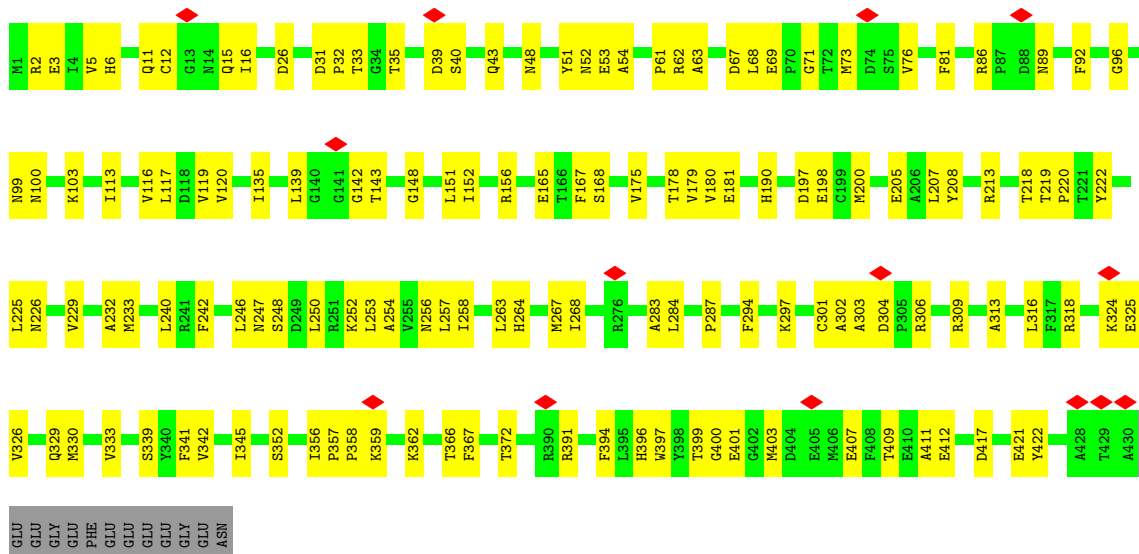
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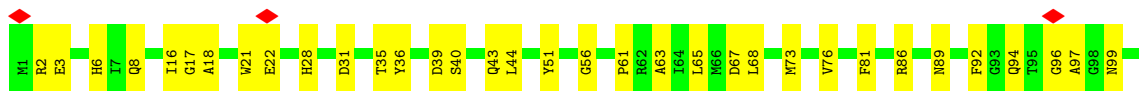
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• Molecule 46: Tubulin beta chain

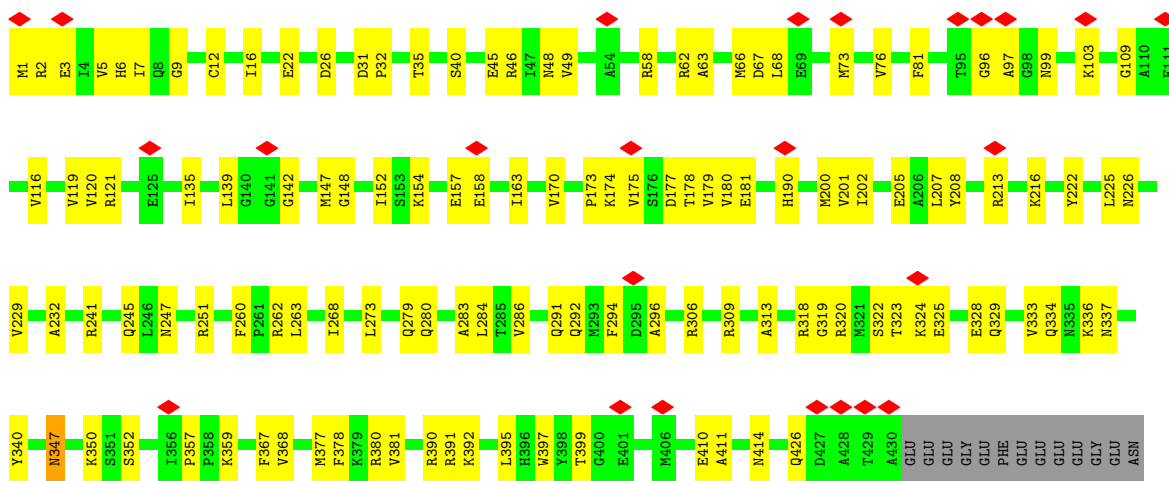


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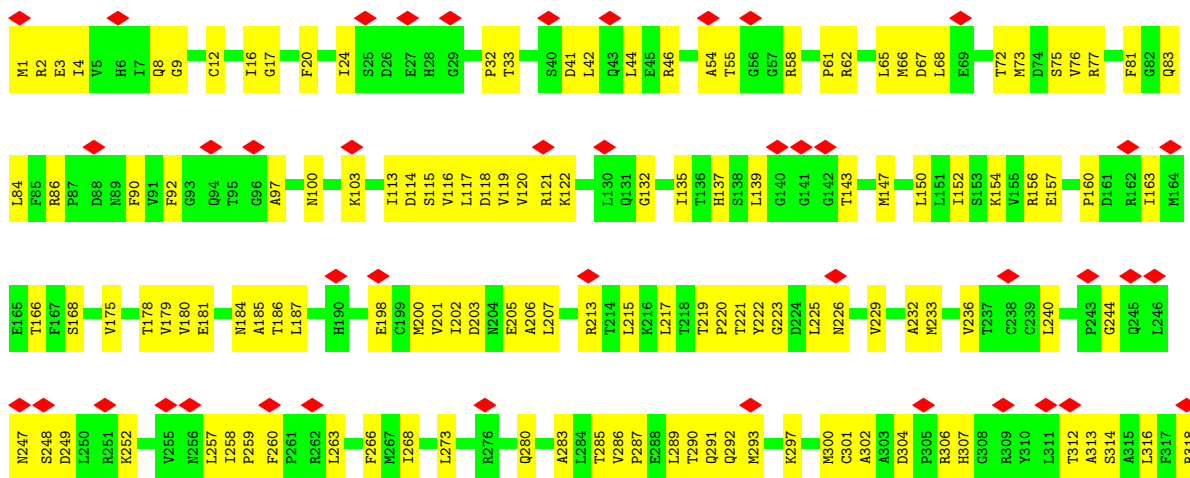




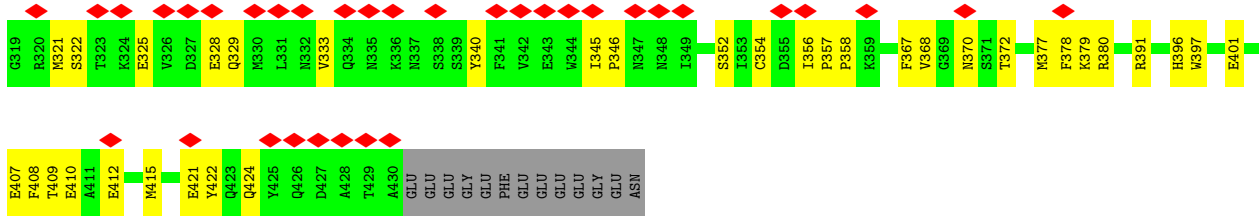
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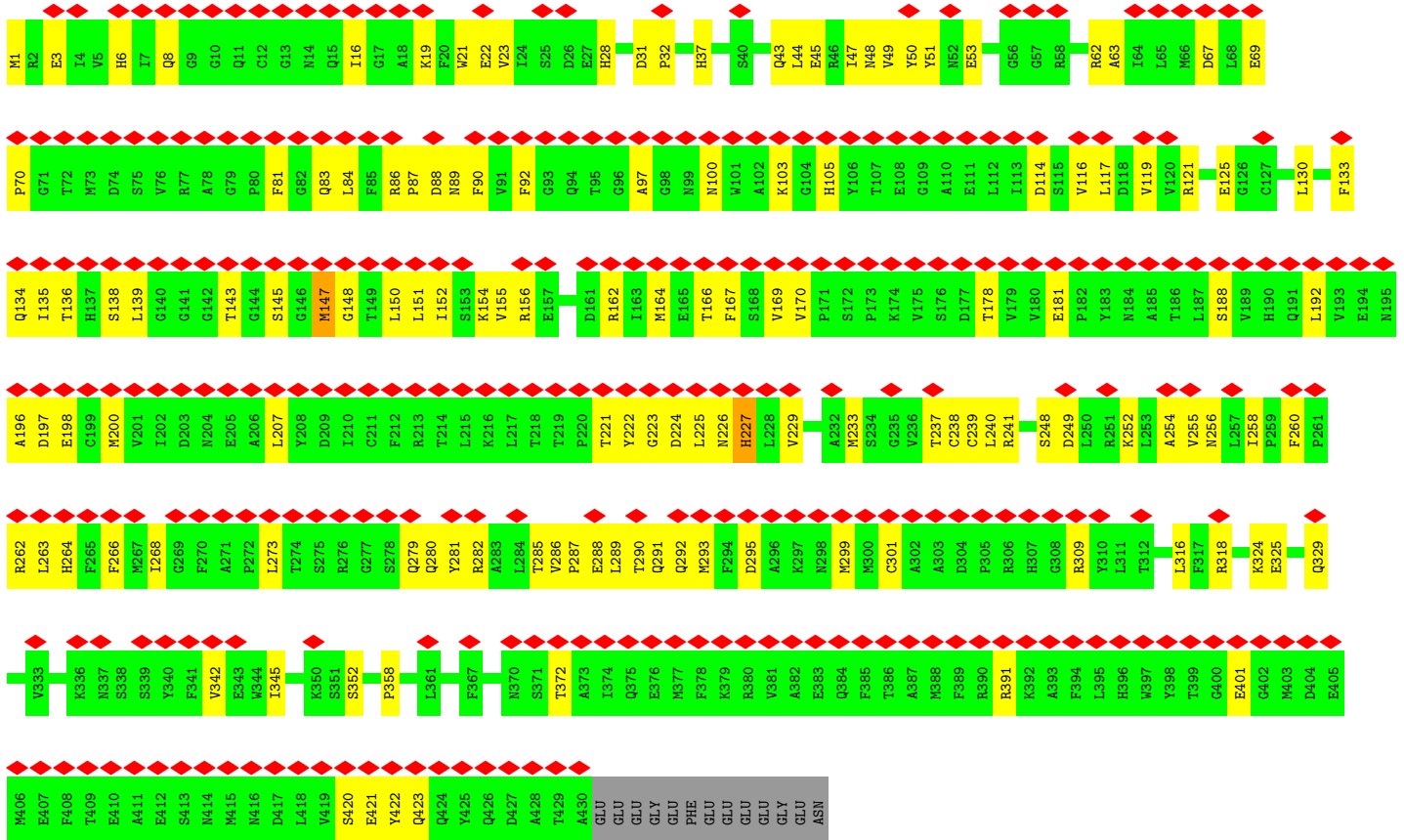
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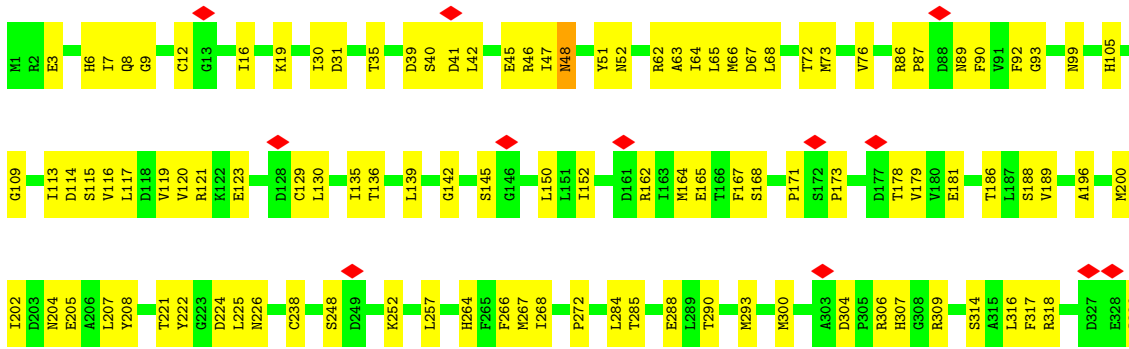


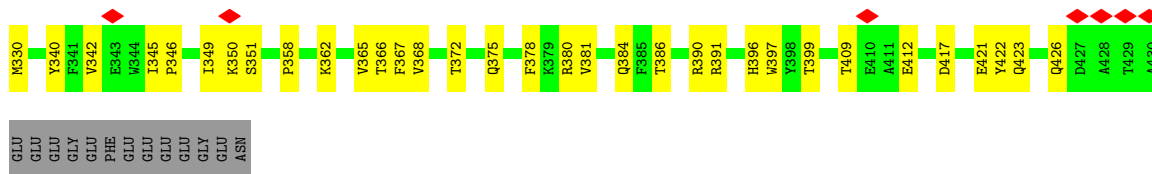


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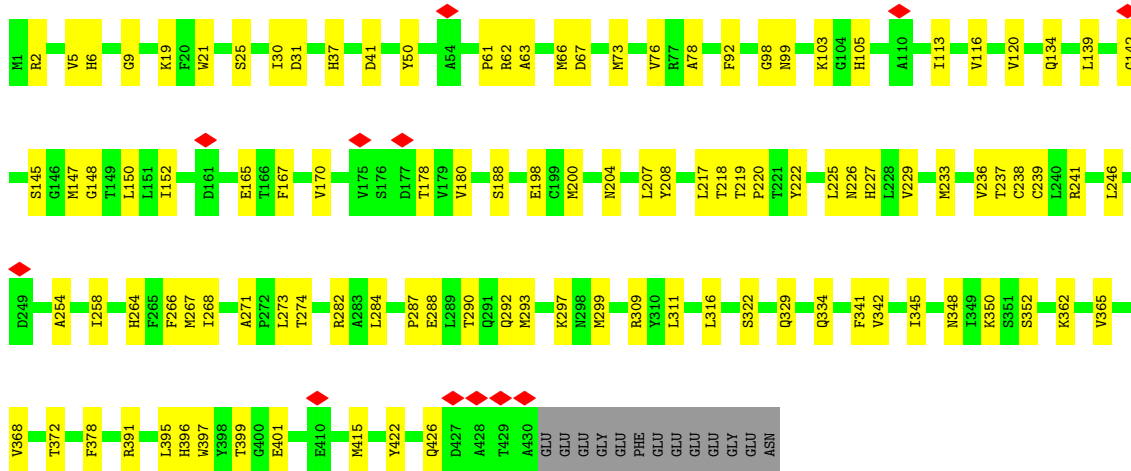


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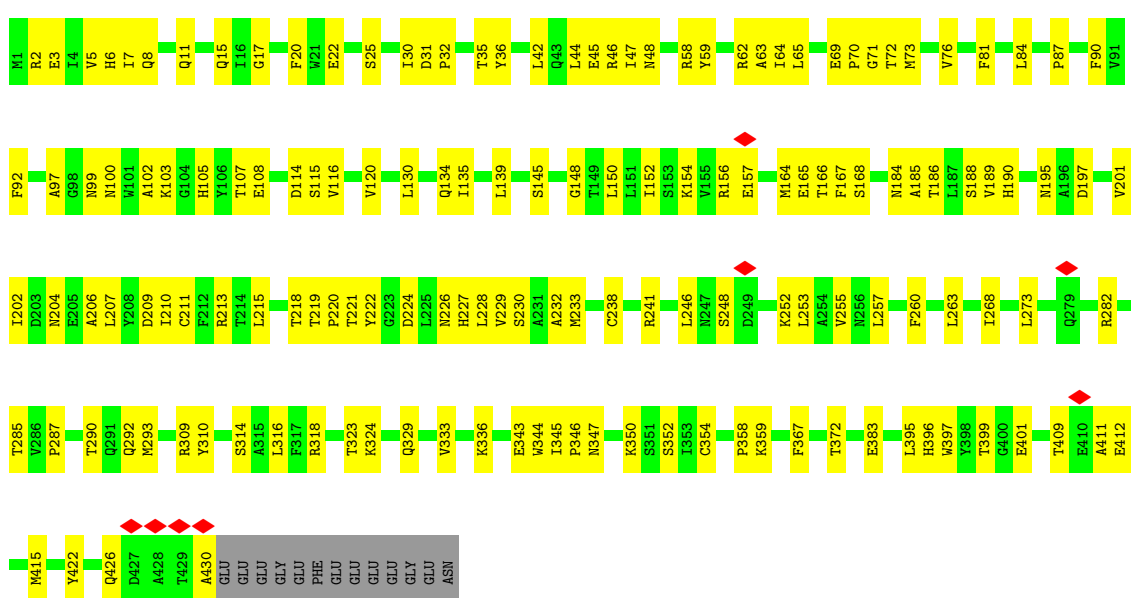




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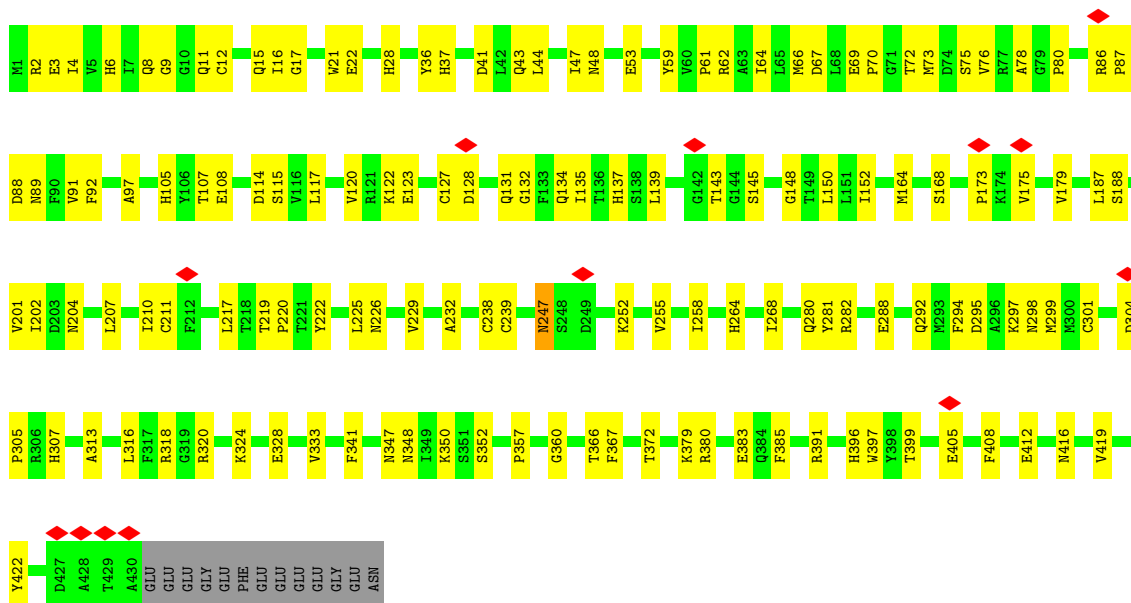


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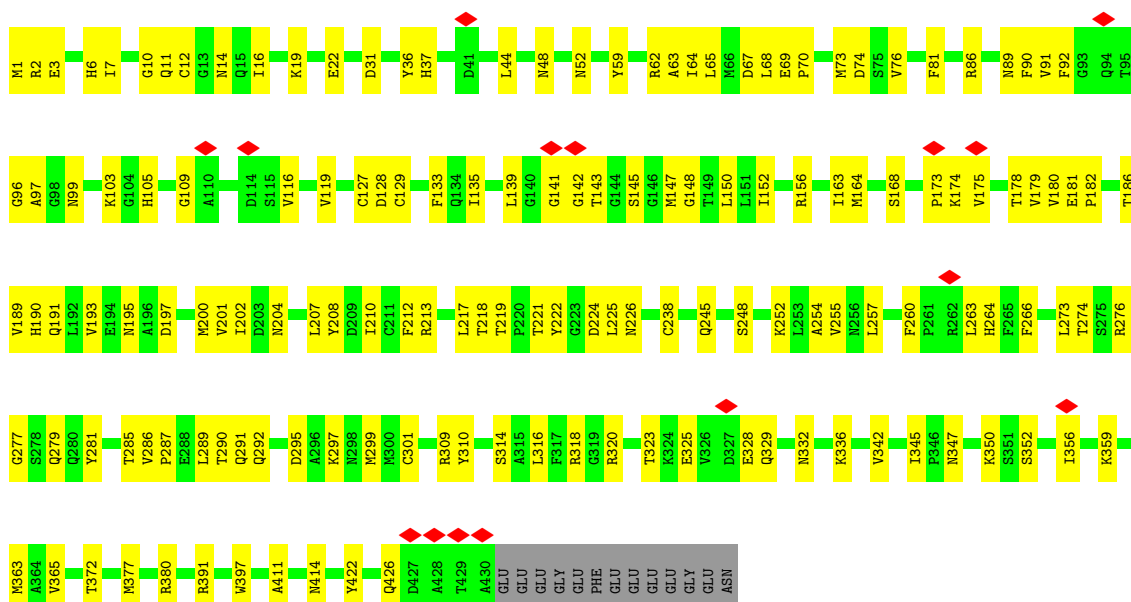


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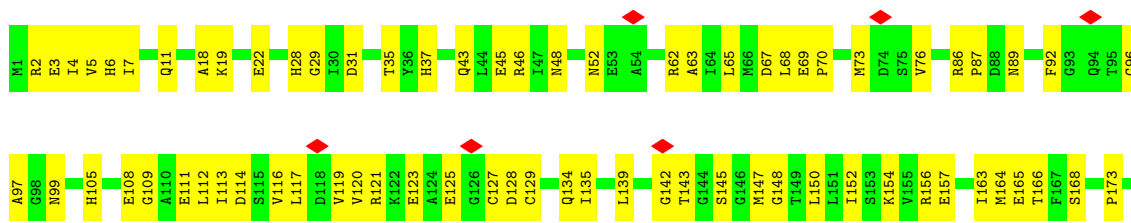


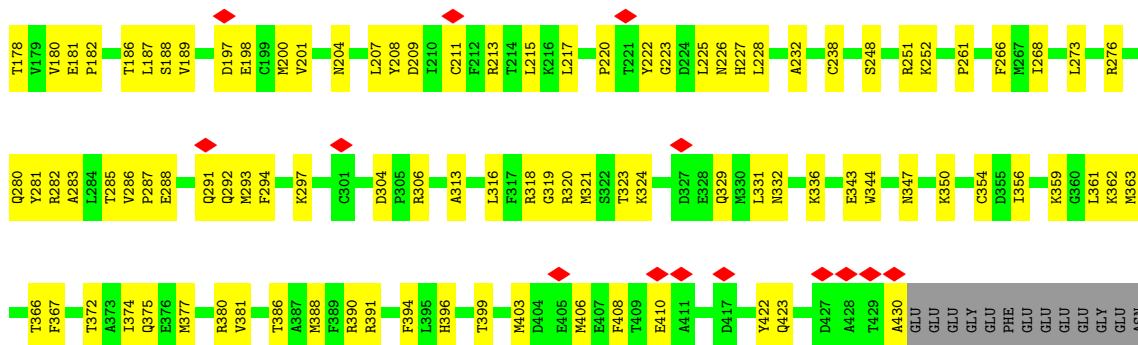


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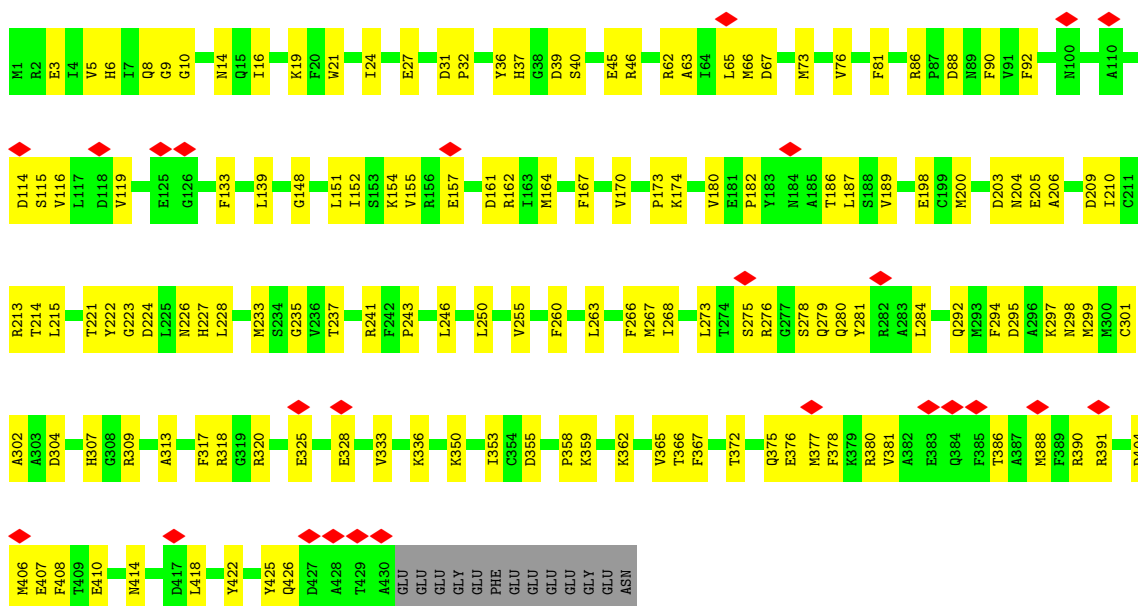


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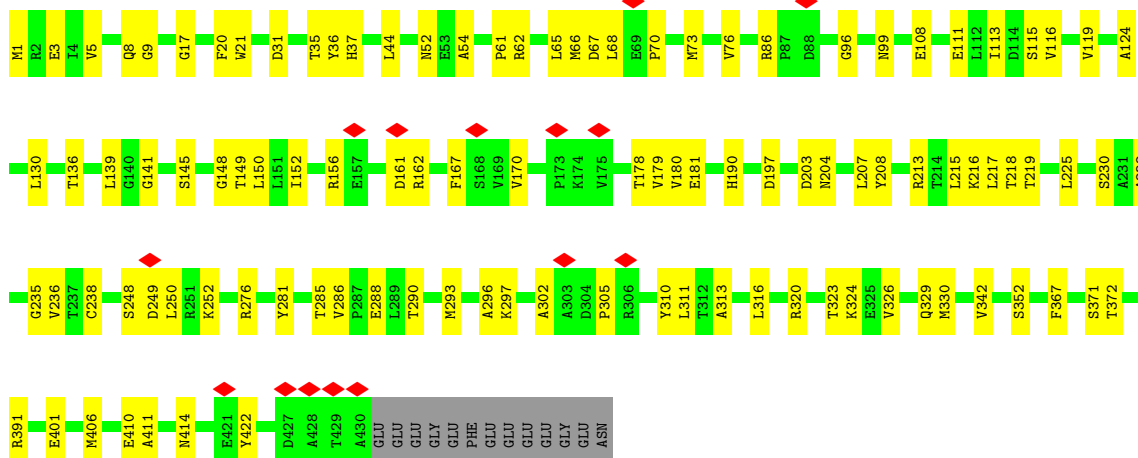
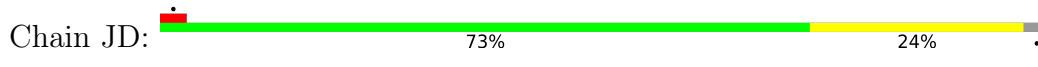




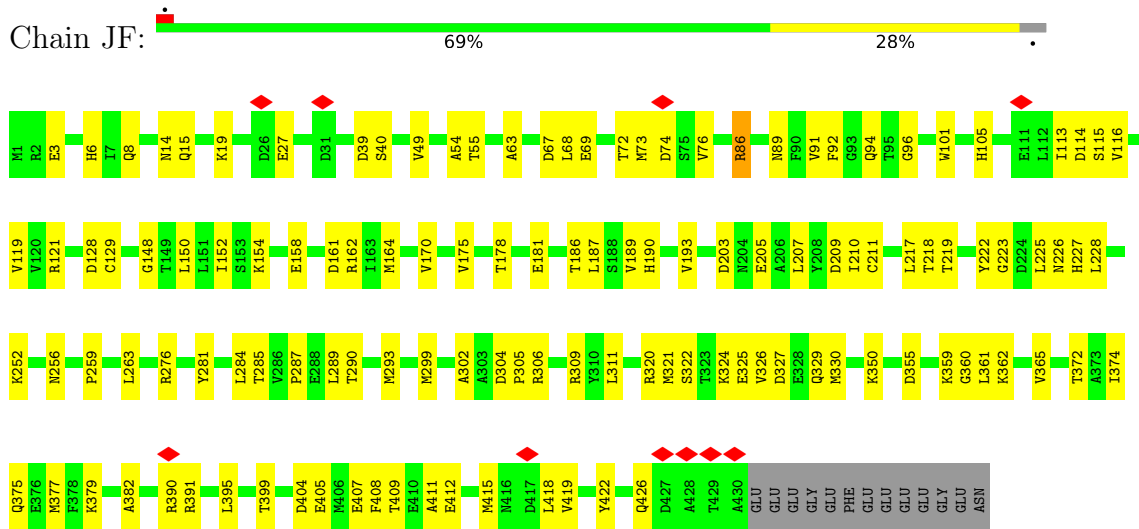
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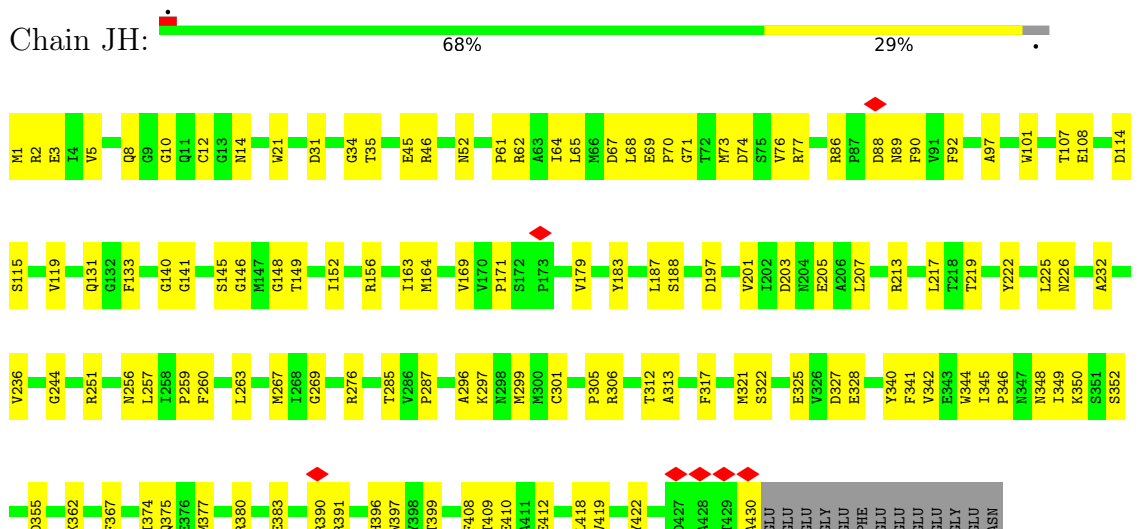
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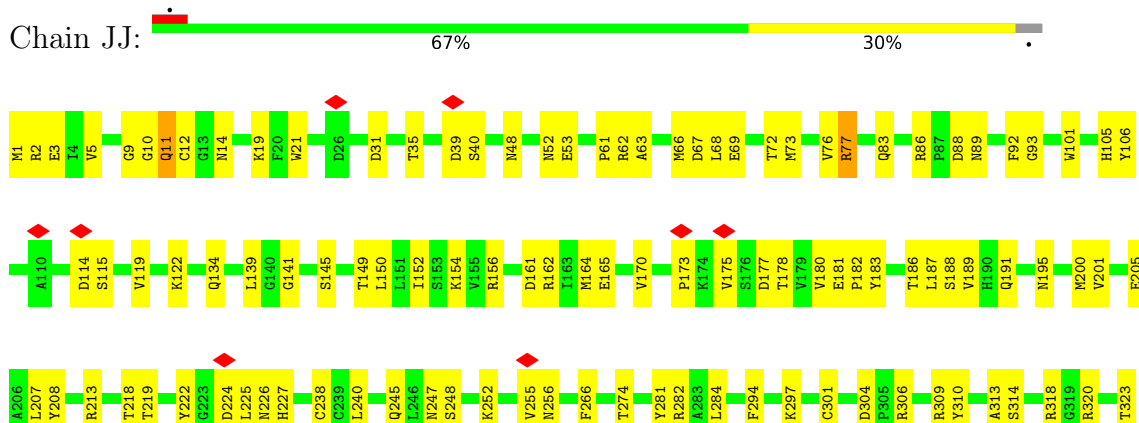
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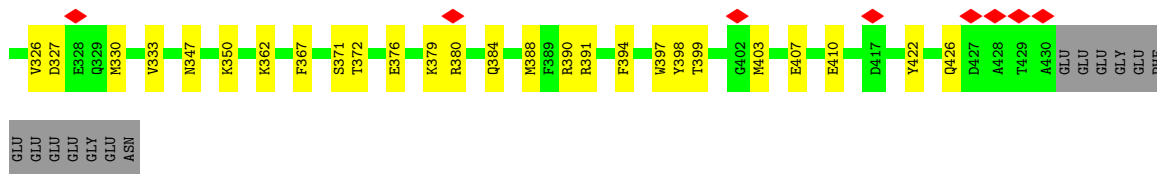


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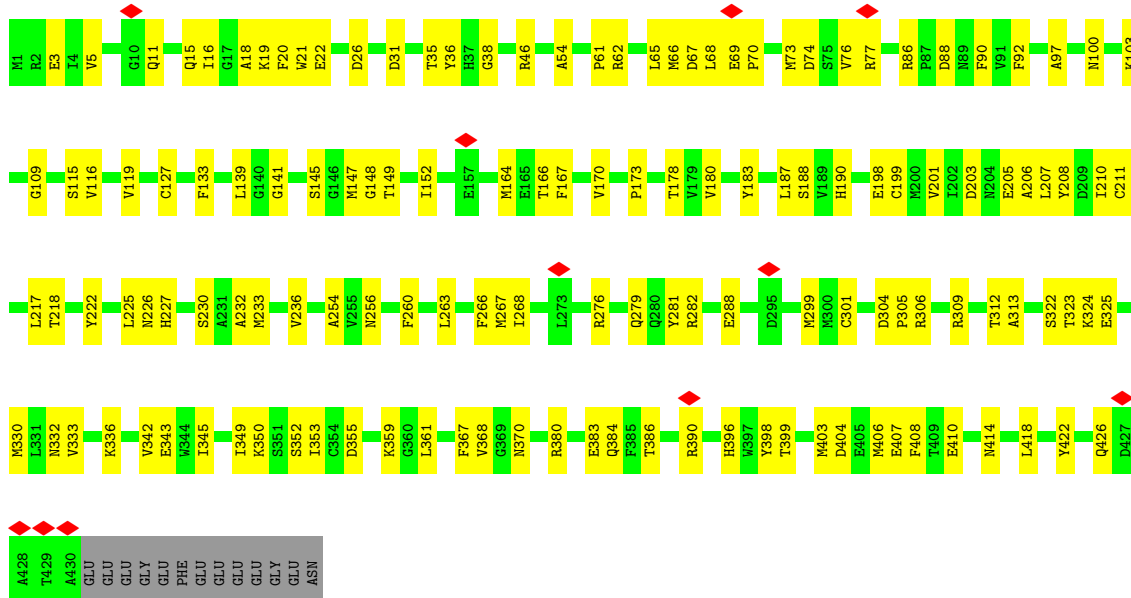


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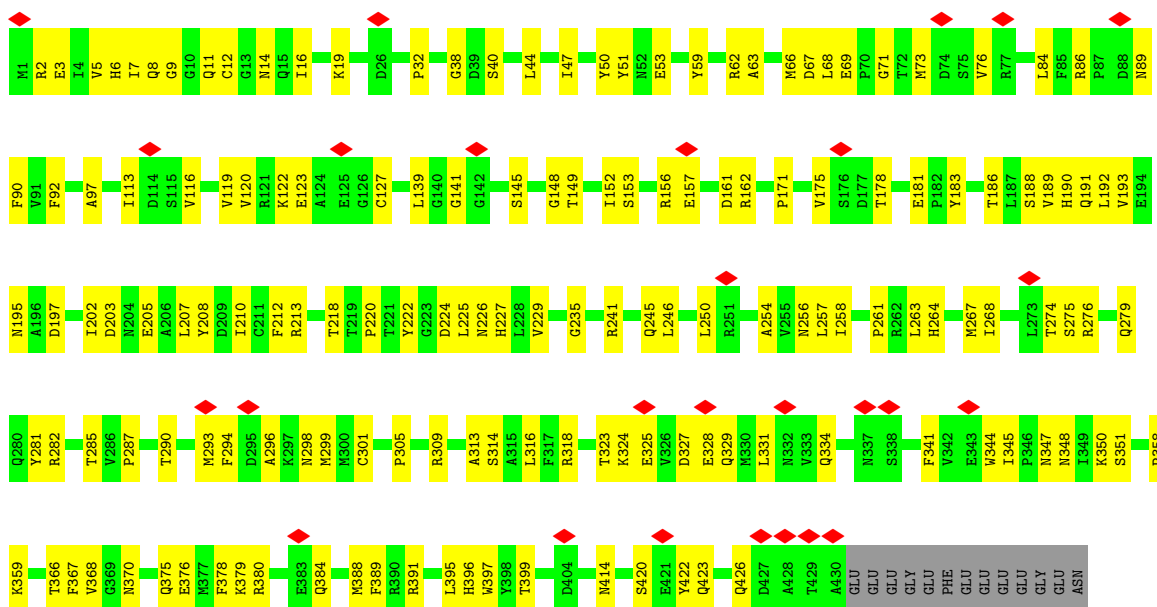




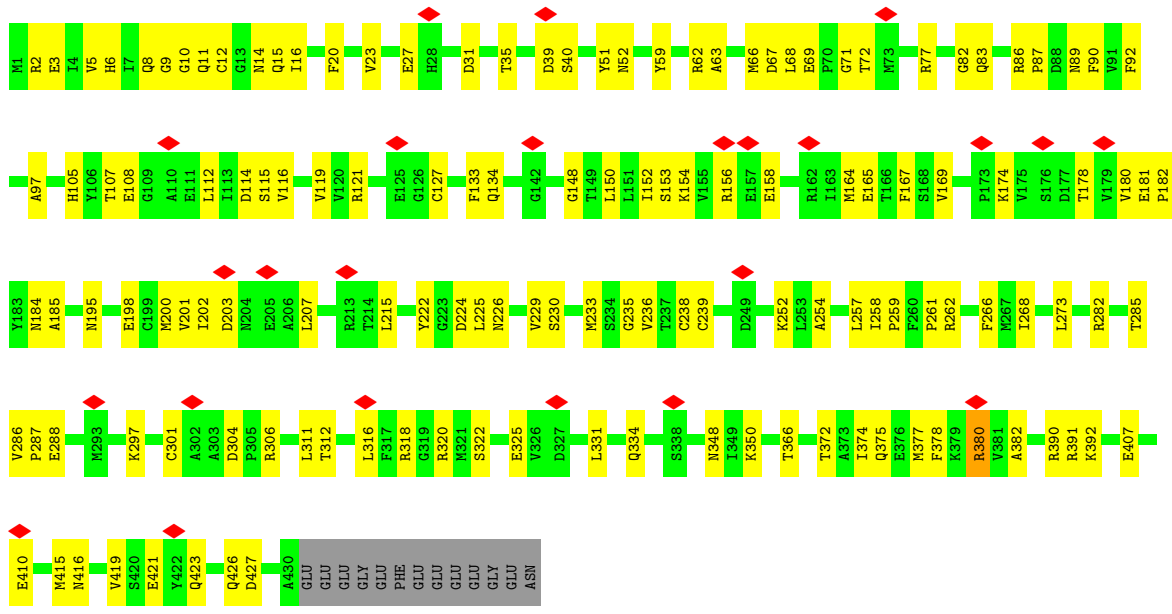
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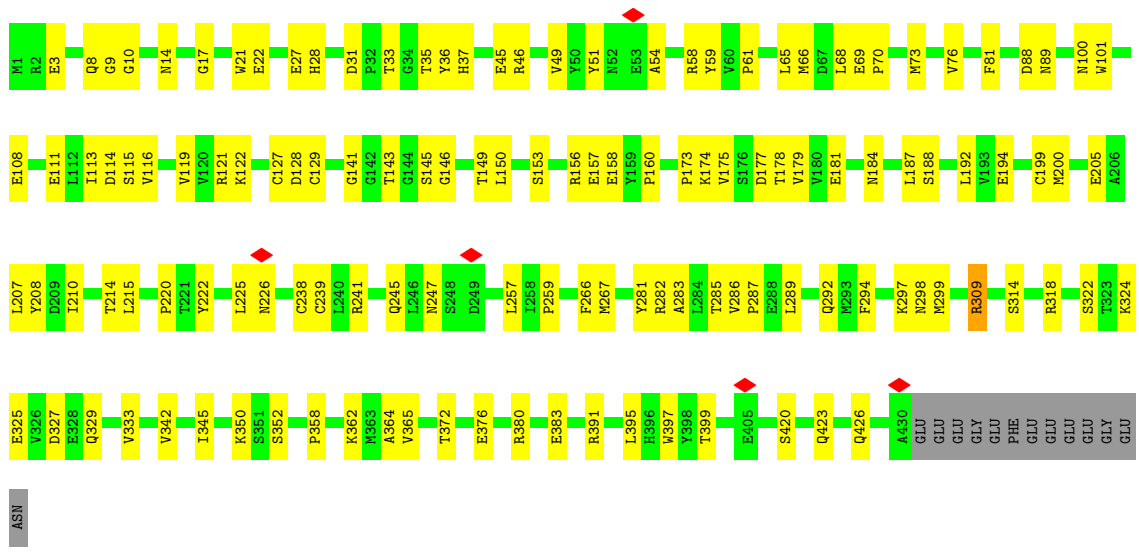
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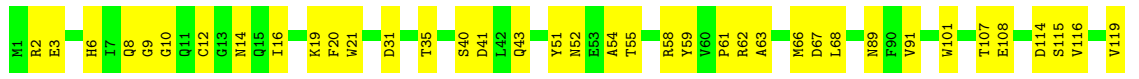
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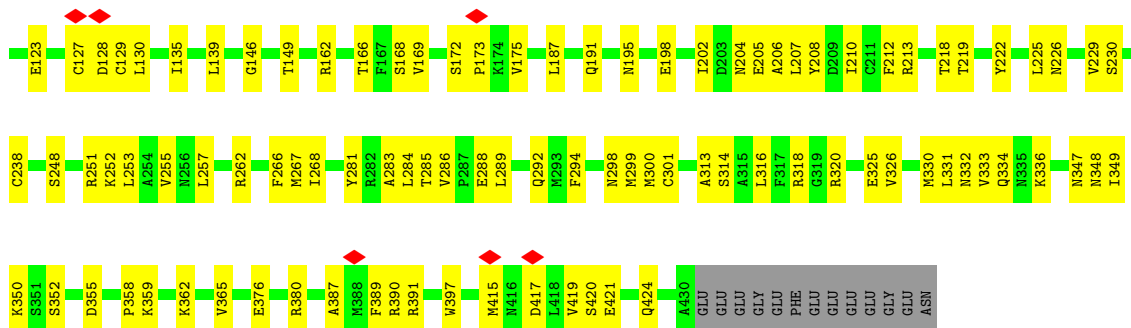


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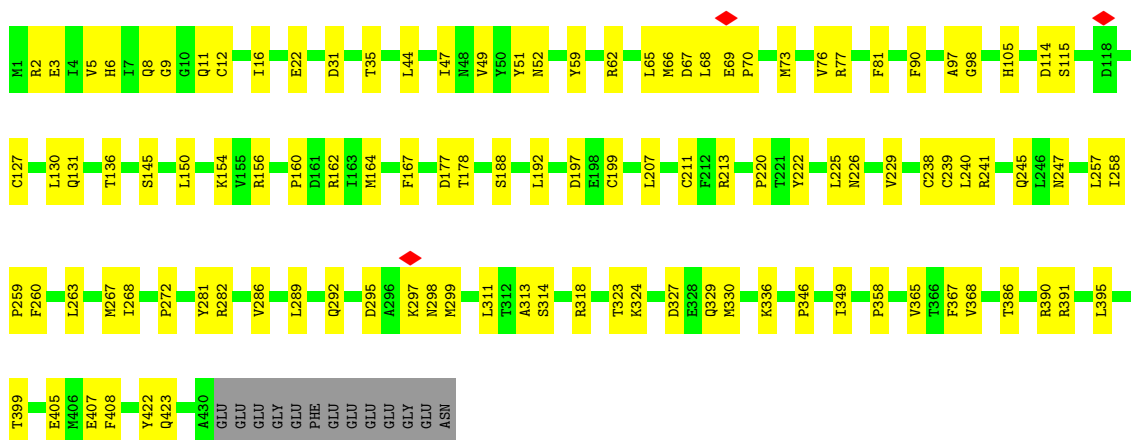
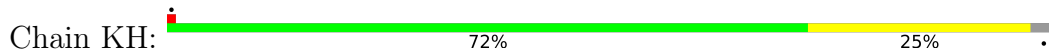


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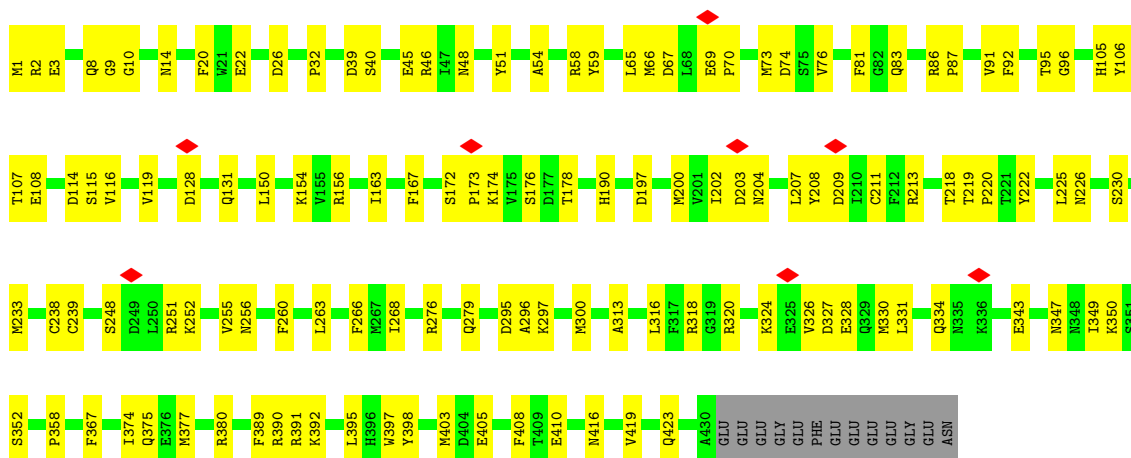




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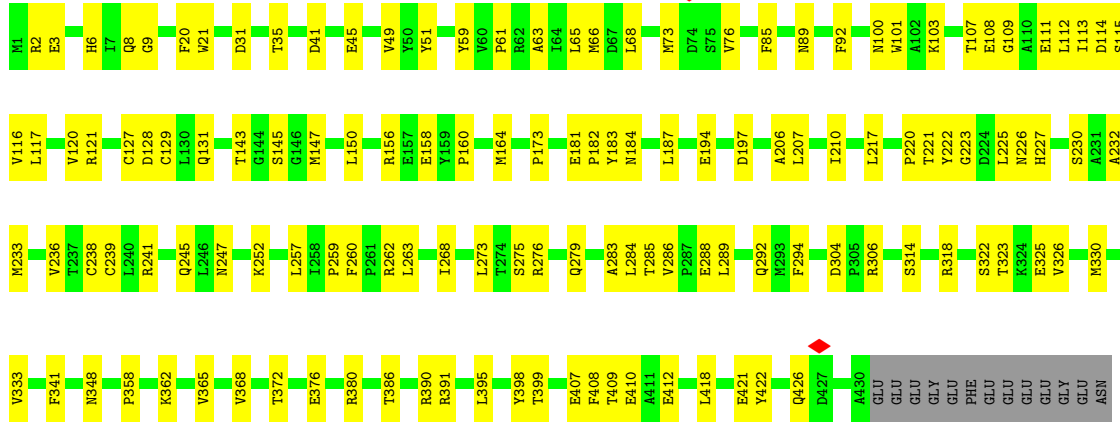
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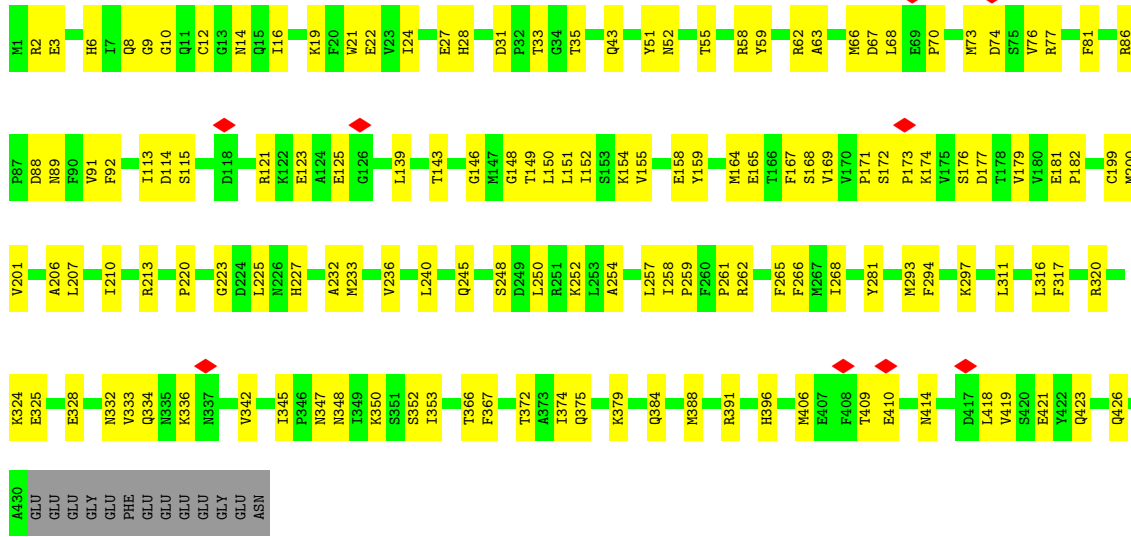
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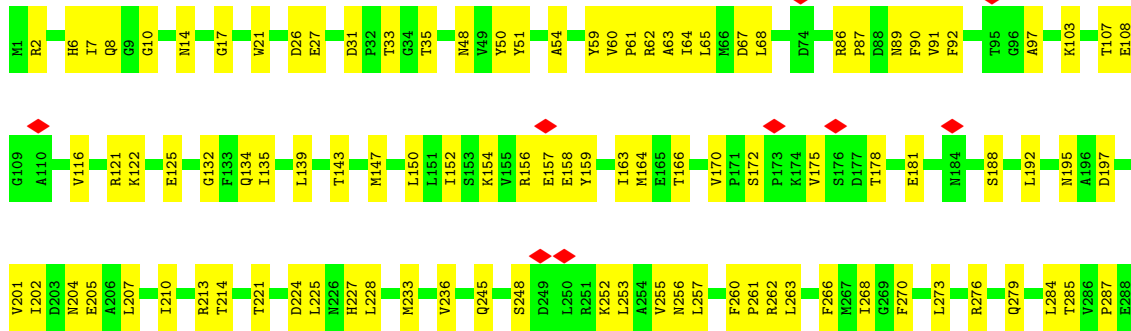


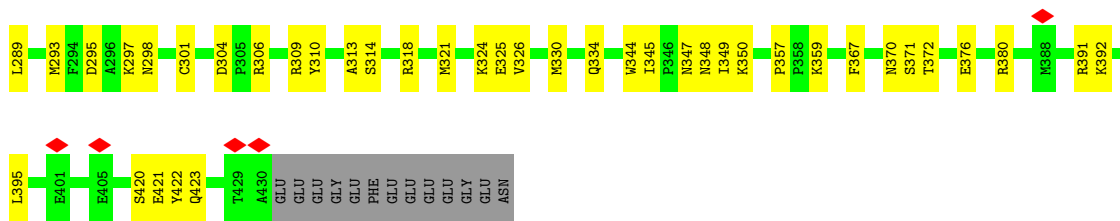


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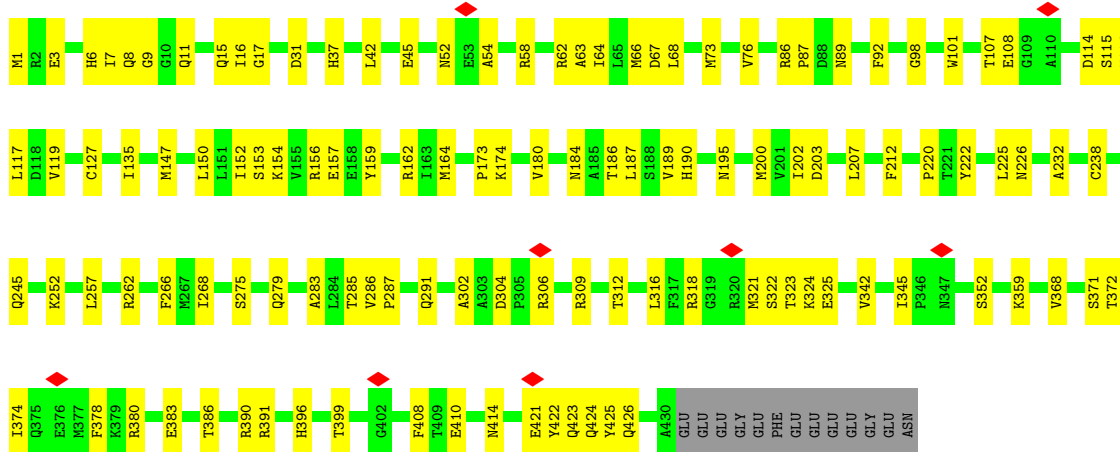


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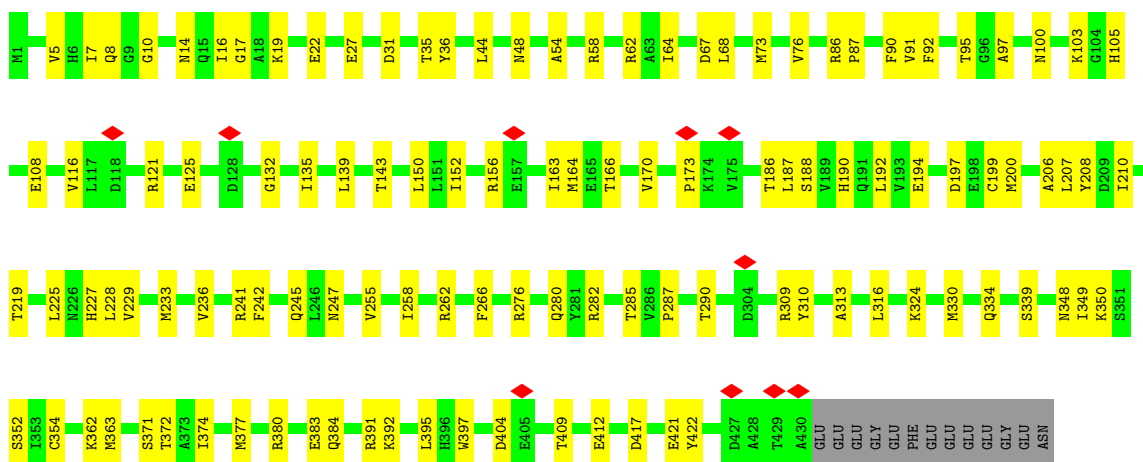




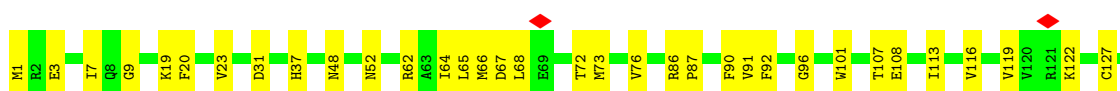
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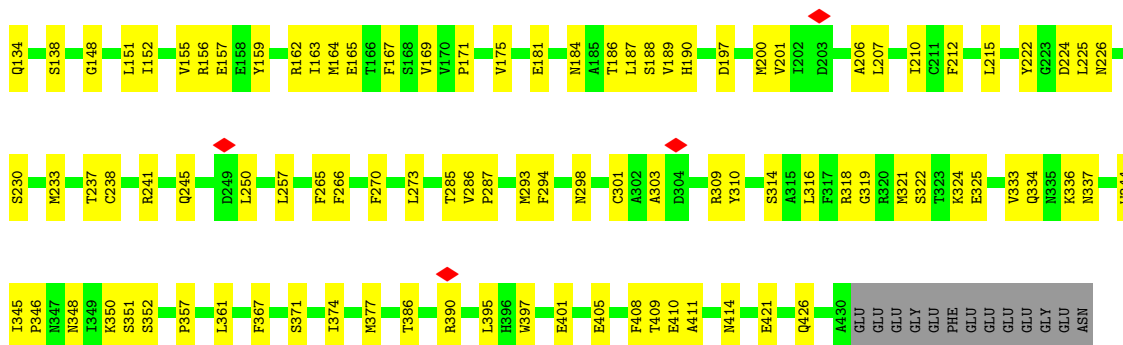


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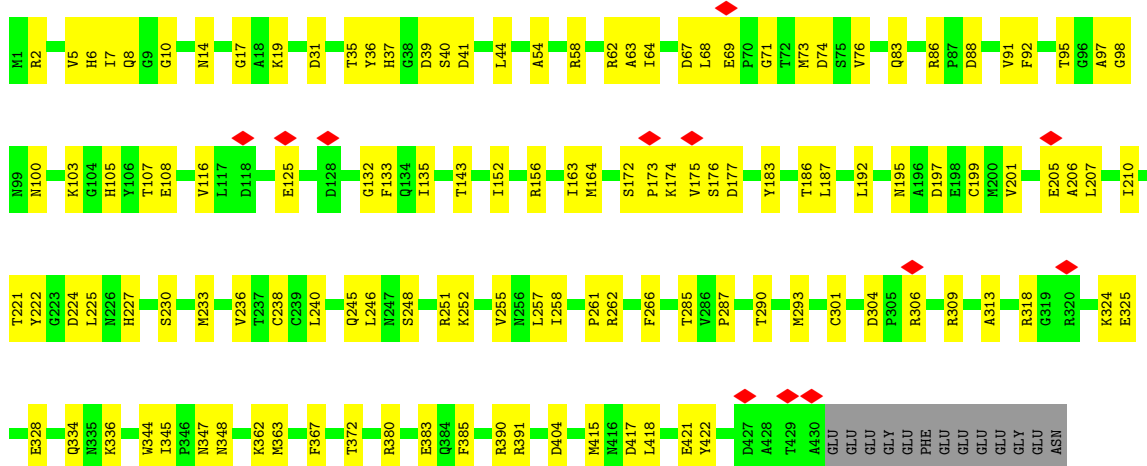


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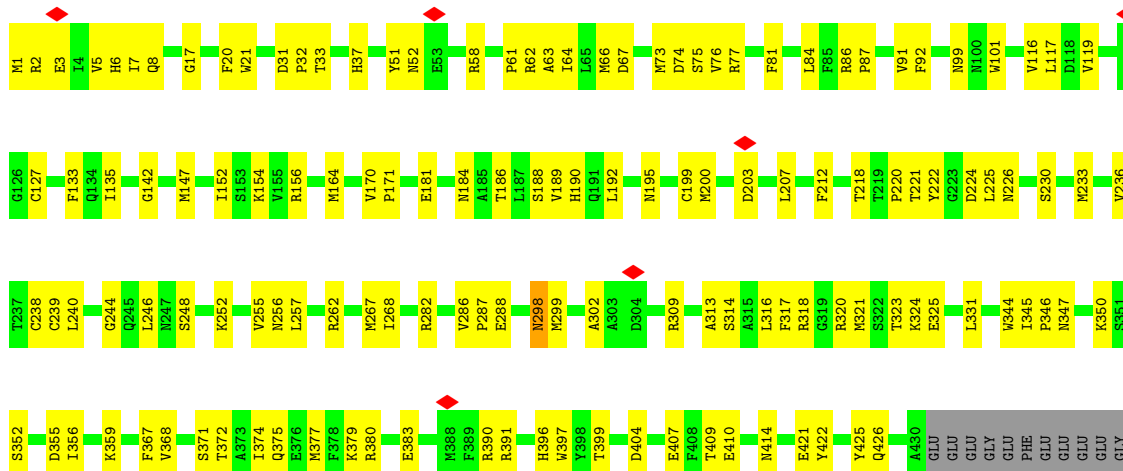




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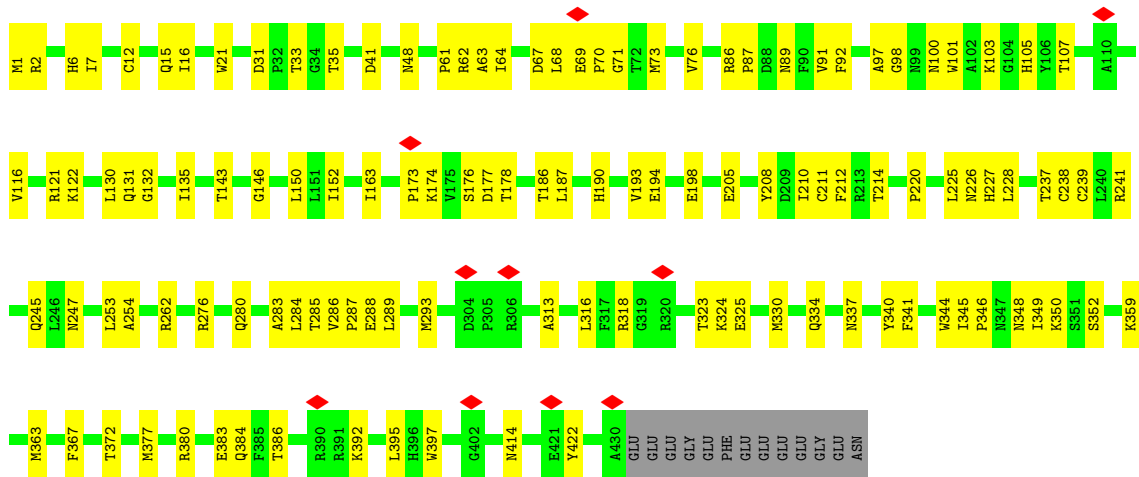


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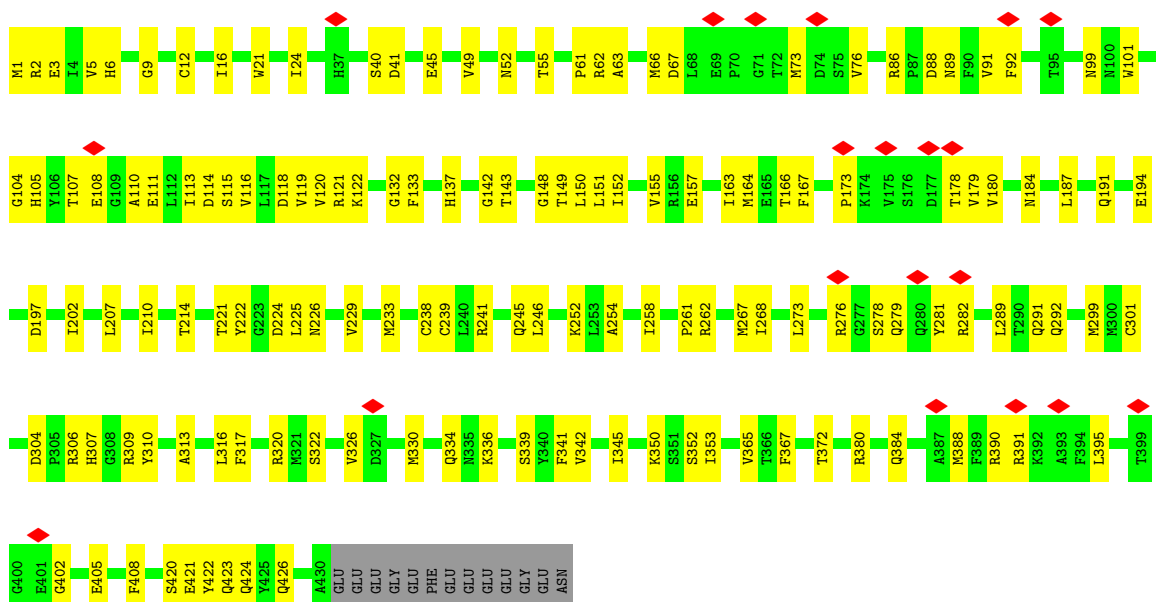


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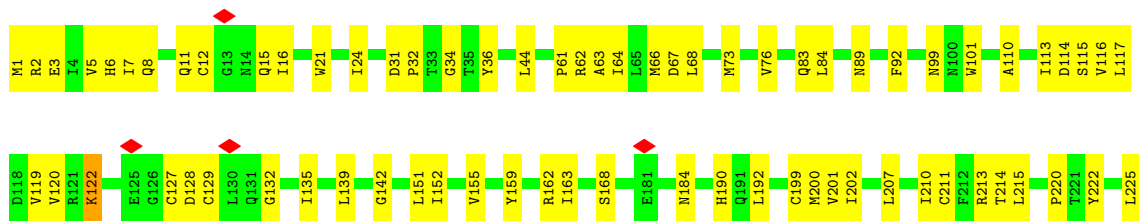
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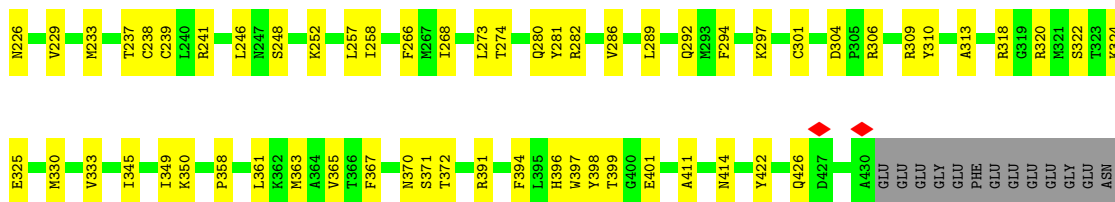


• Molecule 46: Tubulin beta chain

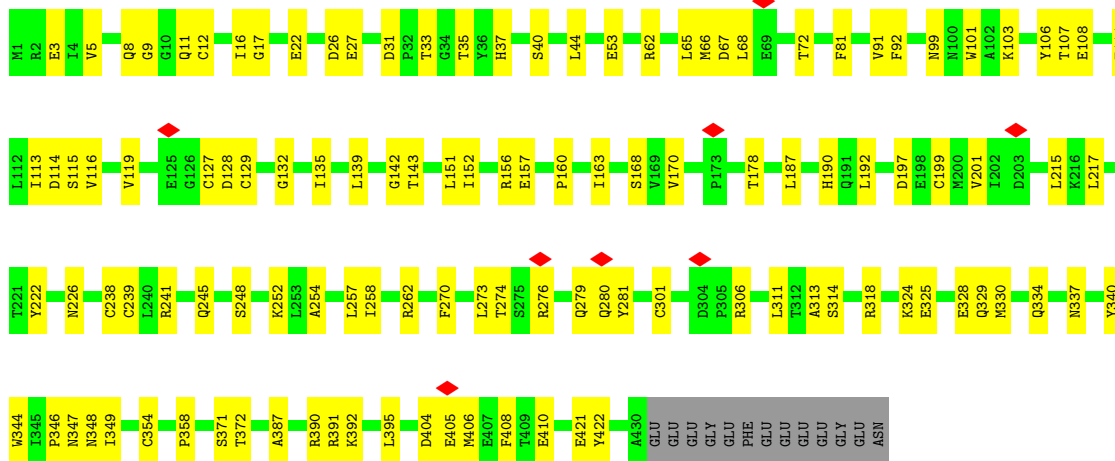


• Molecule 46: Tubulin beta chain

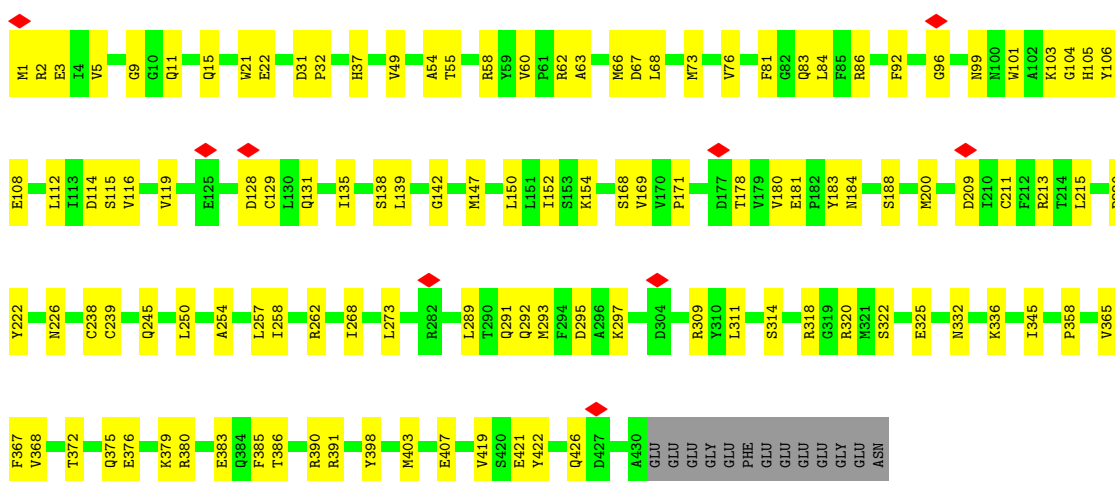




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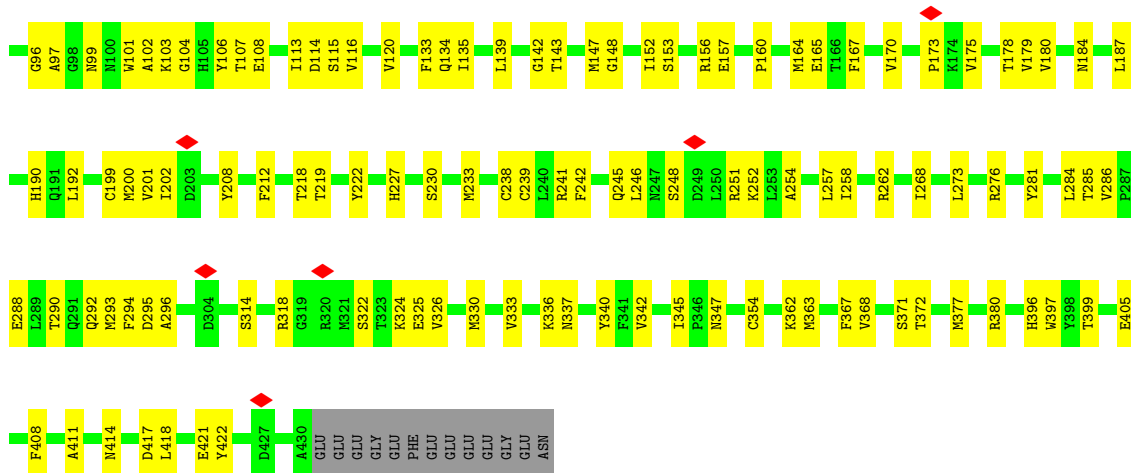


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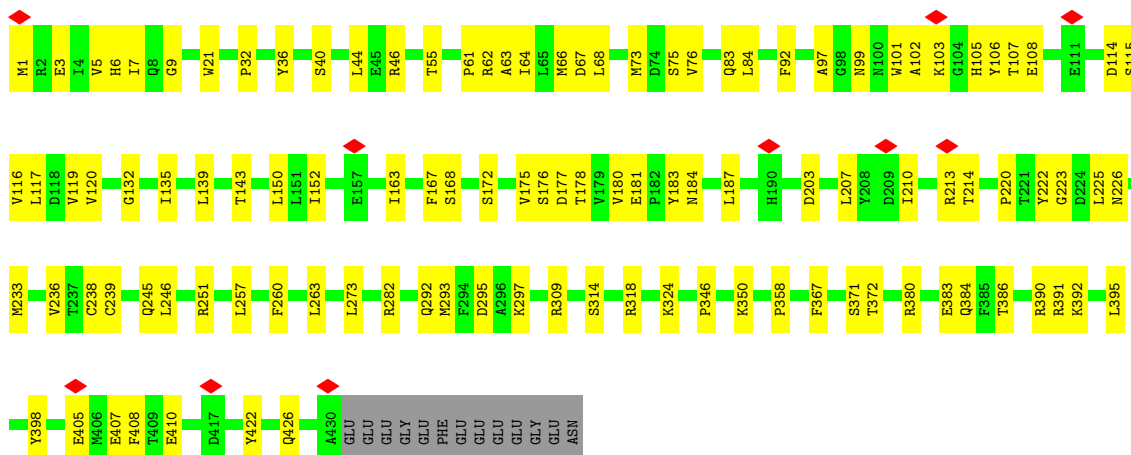
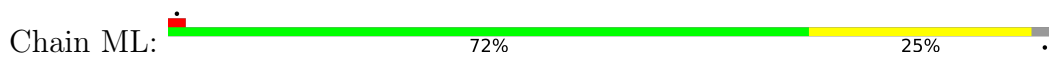


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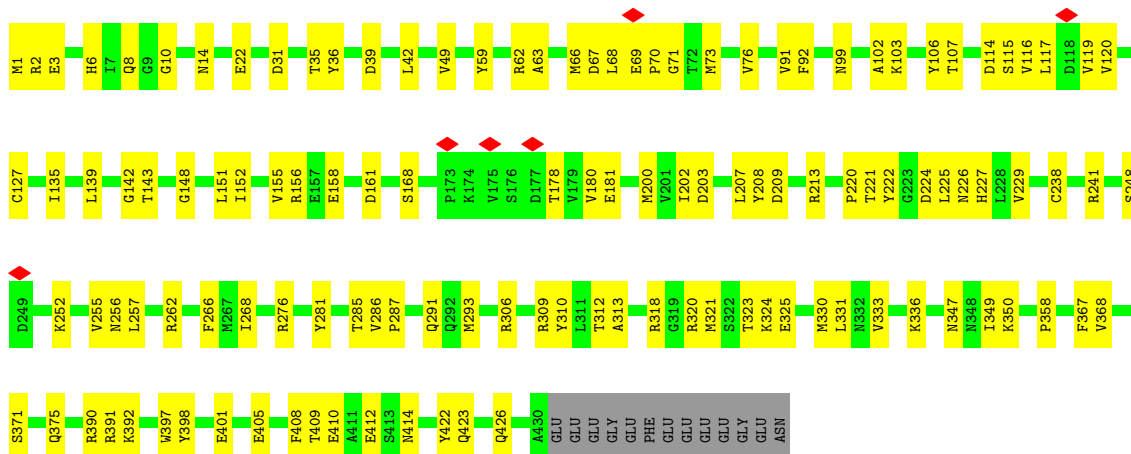




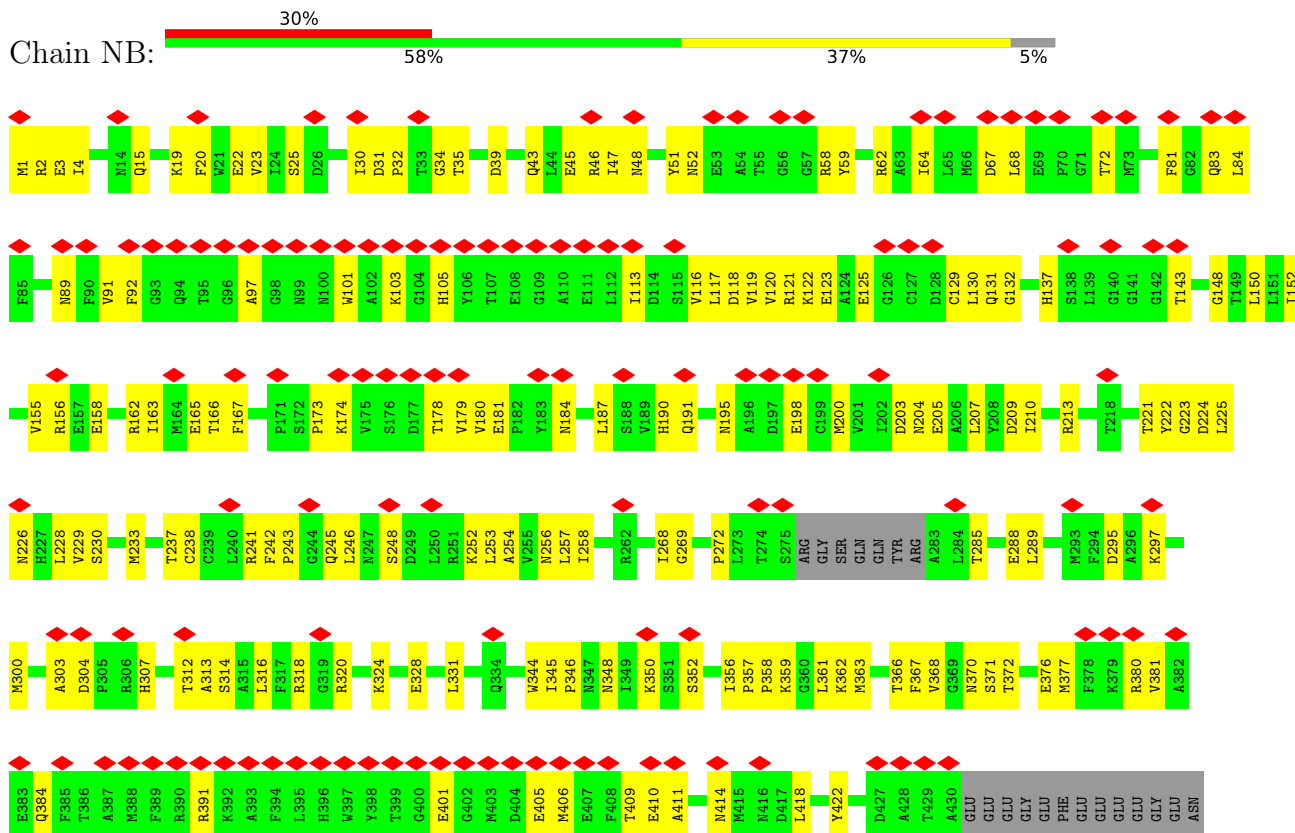
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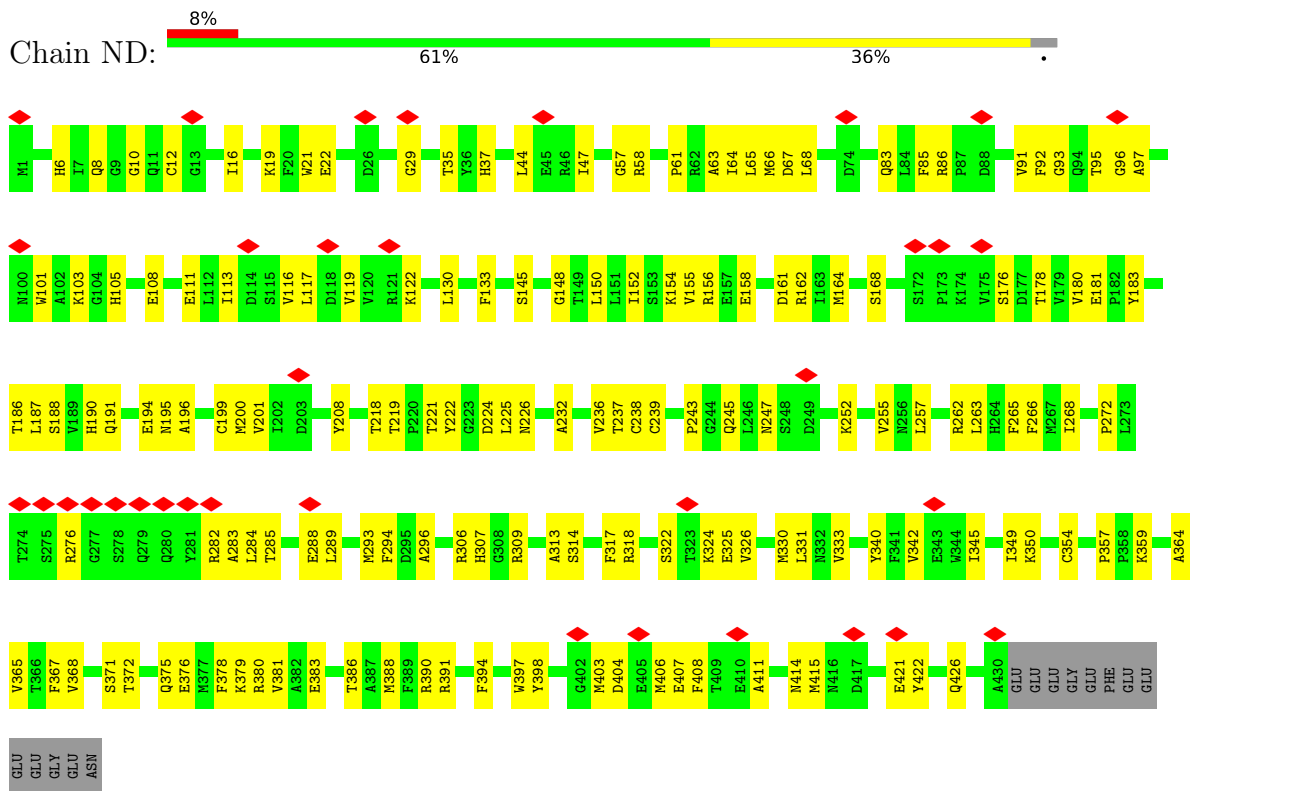
• Molecule 46: Tubulin beta chain



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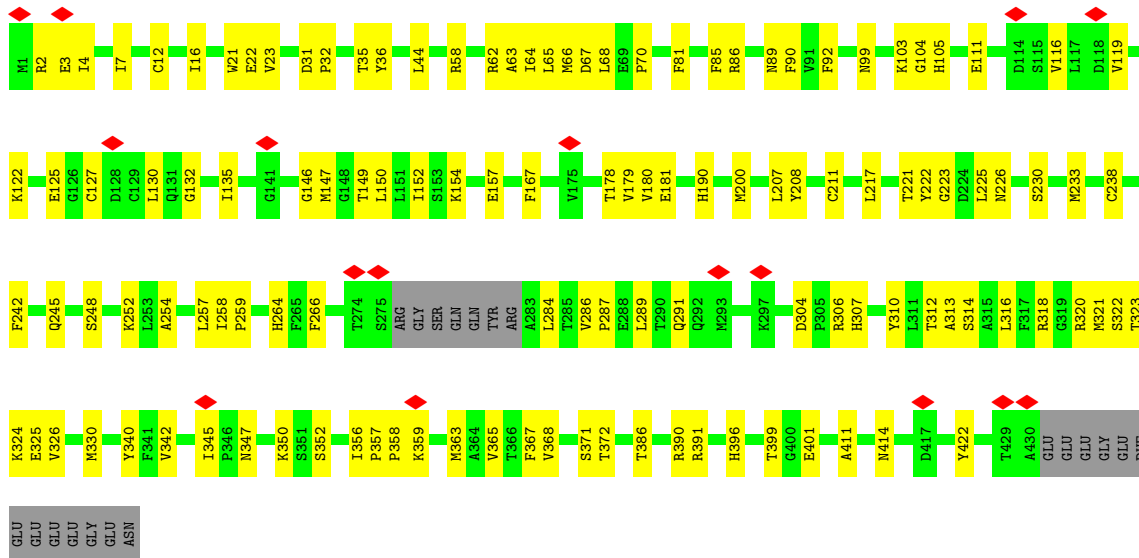


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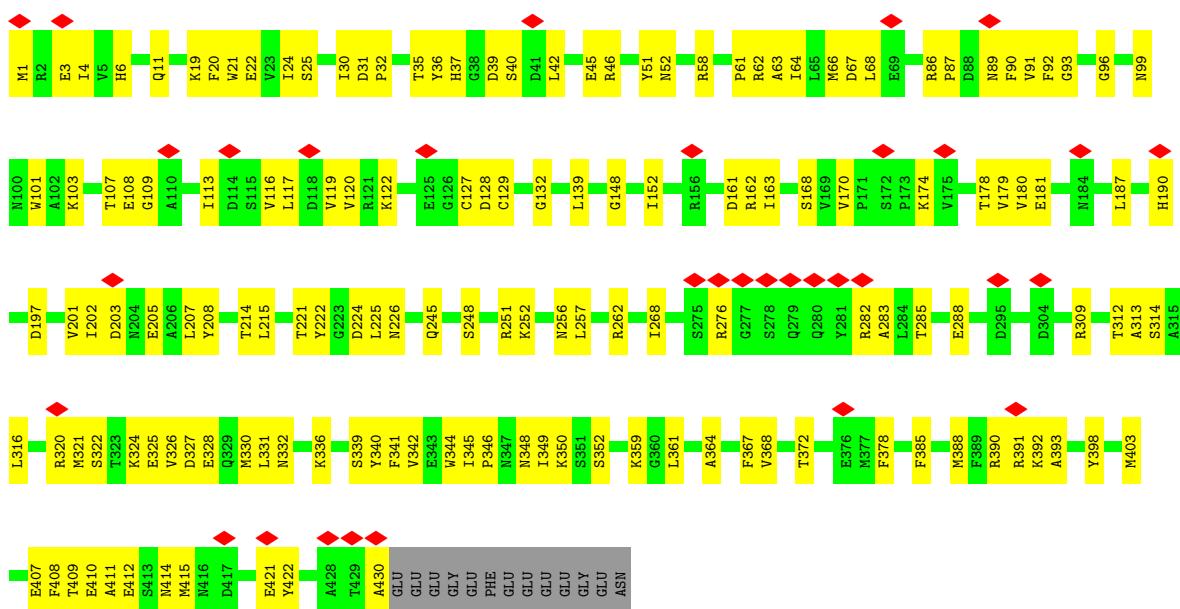
• Molecule 46: Tubulin beta chain

Chain NF: 



• Molecule 46: Tubulin beta chain

Chain NH: 

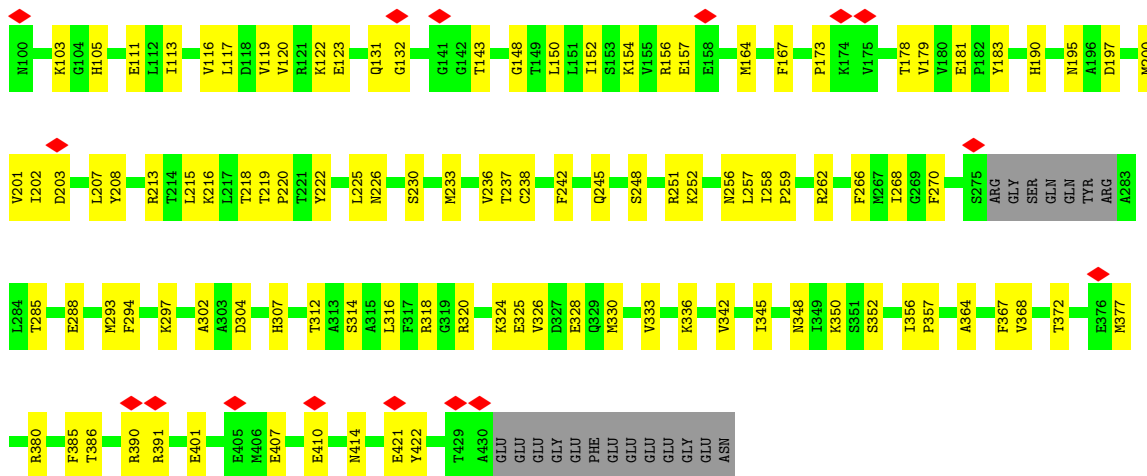


• Molecule 46: Tubulin beta chain

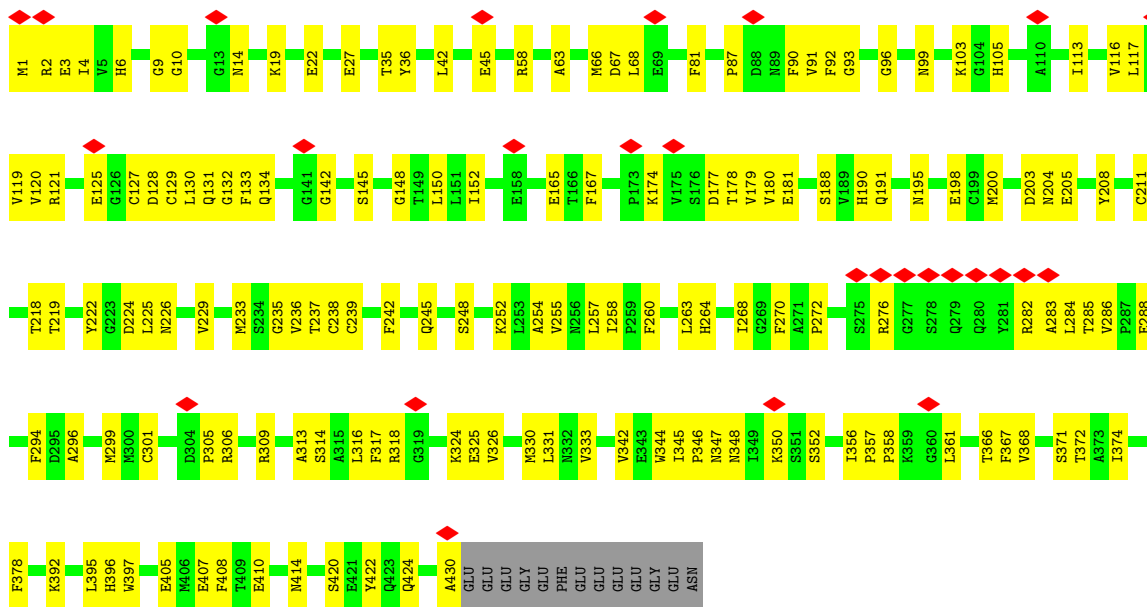
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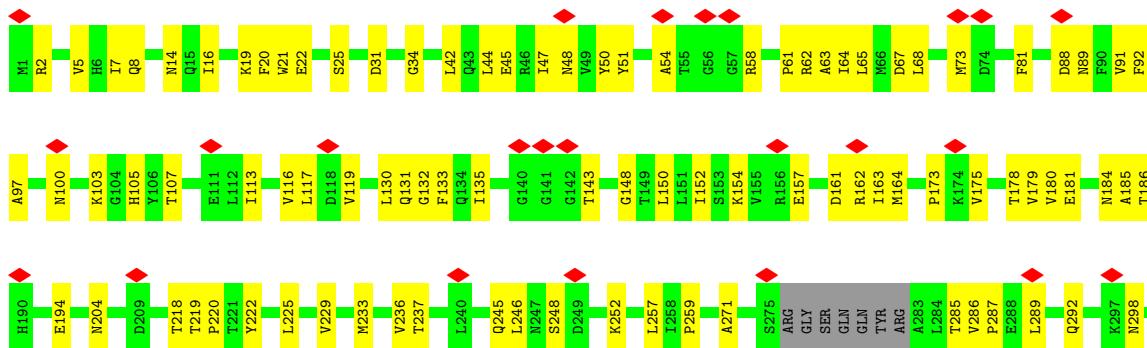


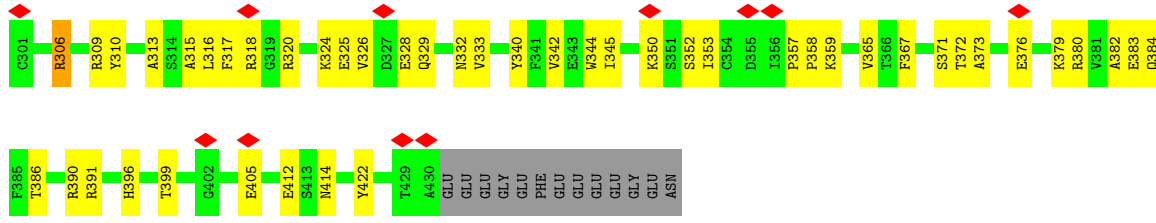


• Molecule 46: Tubulin beta chain

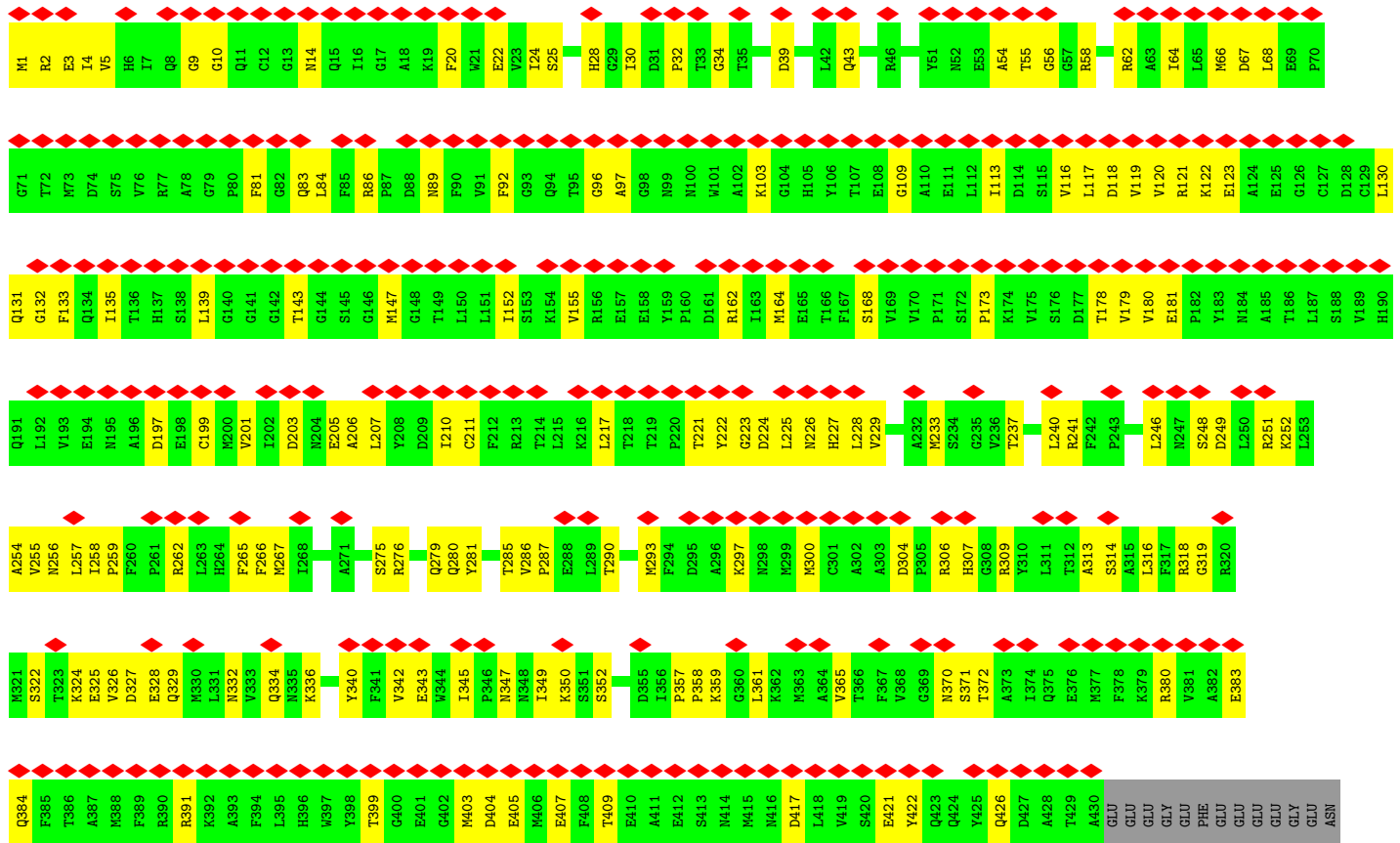


• Molecule 46: Tubulin beta chain

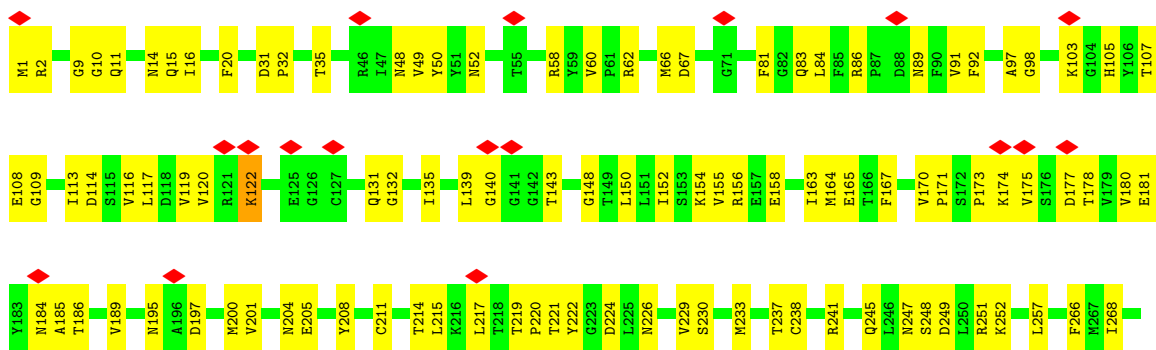


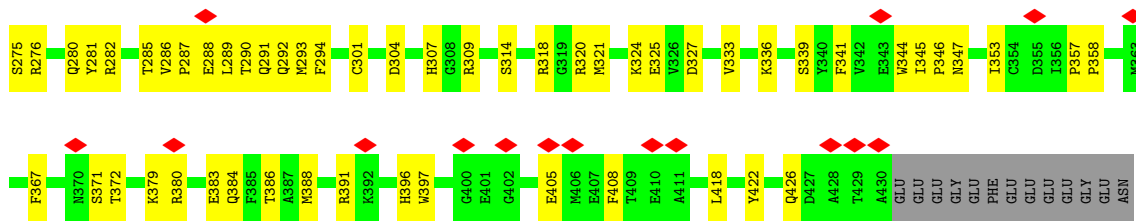


• Molecule 46: Tubulin beta chain

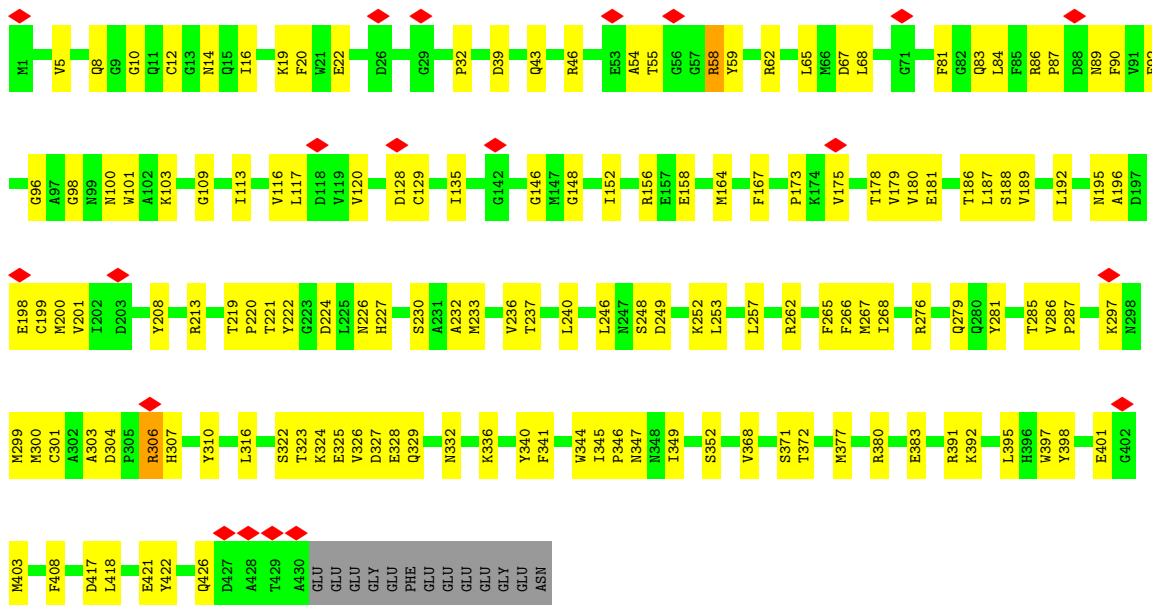


• Molecule 46: Tubulin beta chain

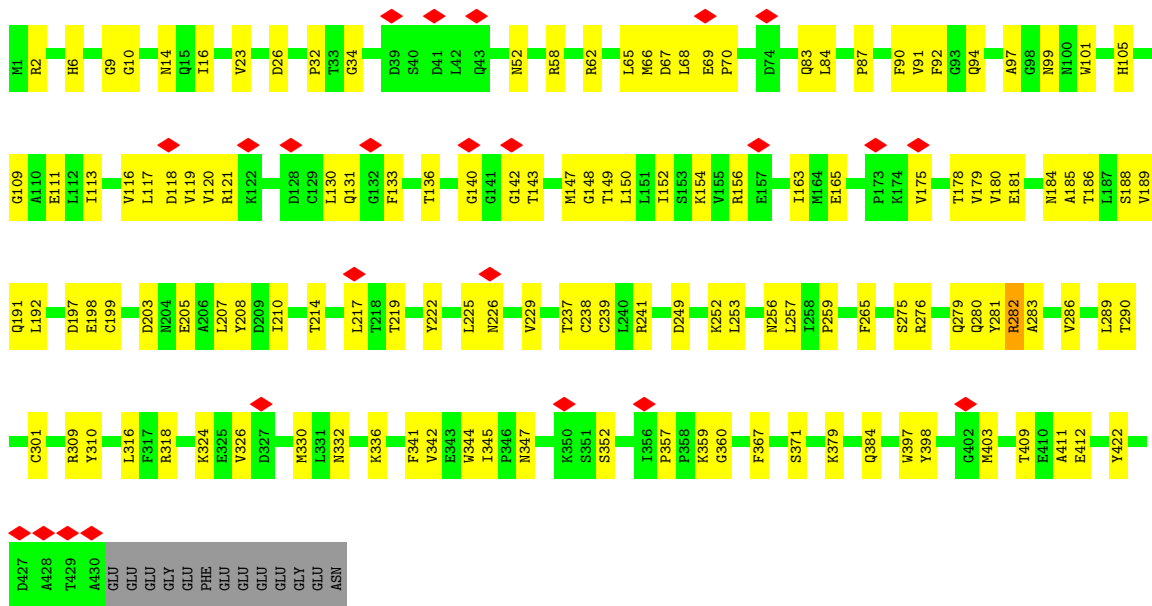




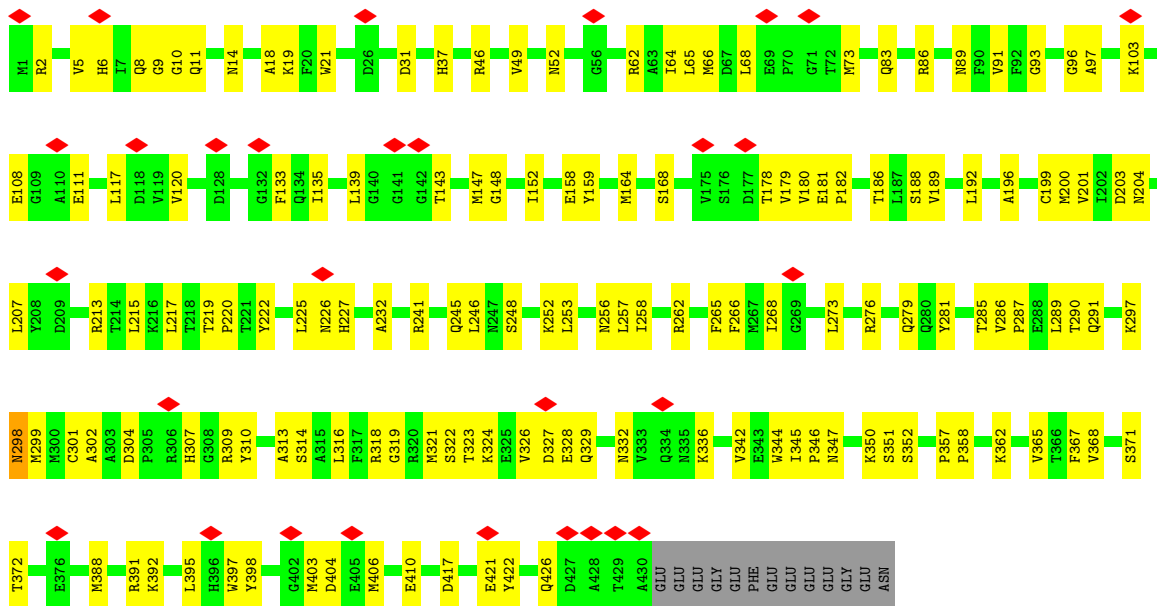
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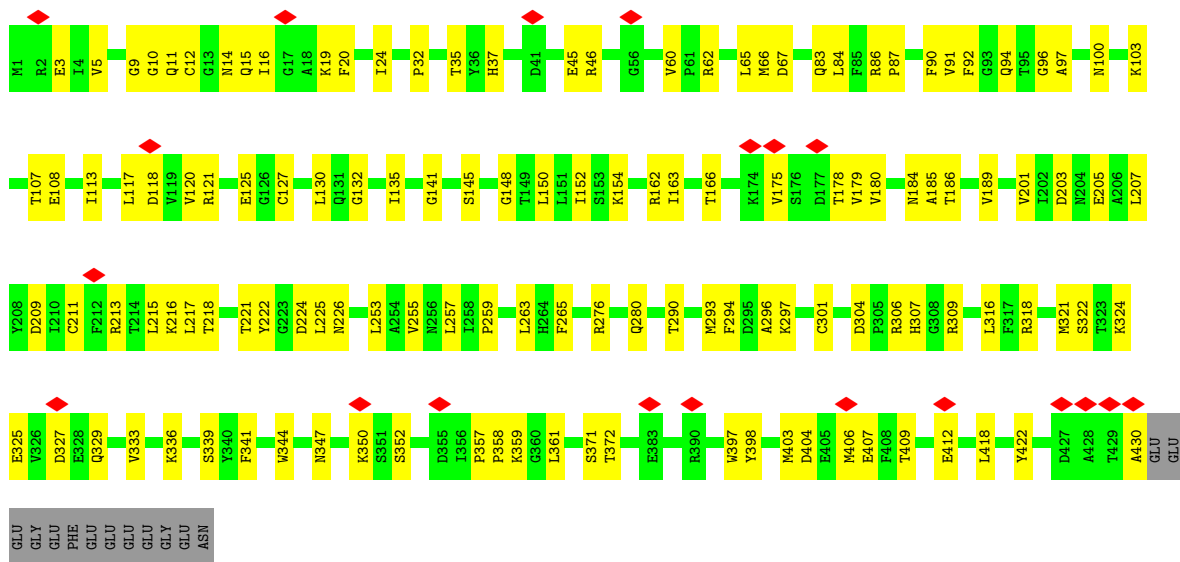
• Molecule 46: Tubulin beta chain



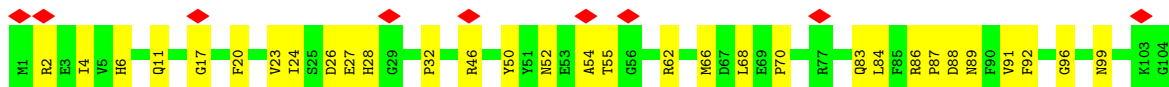
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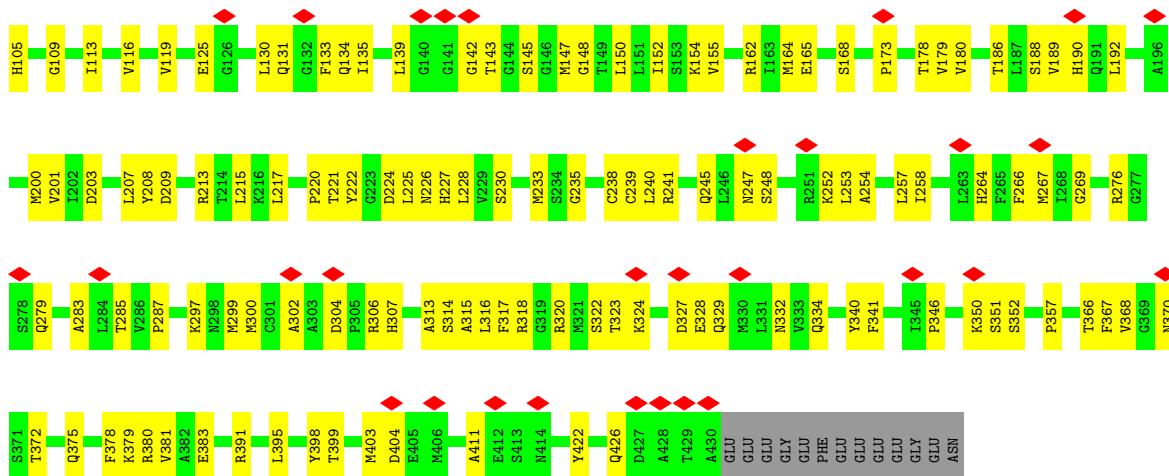


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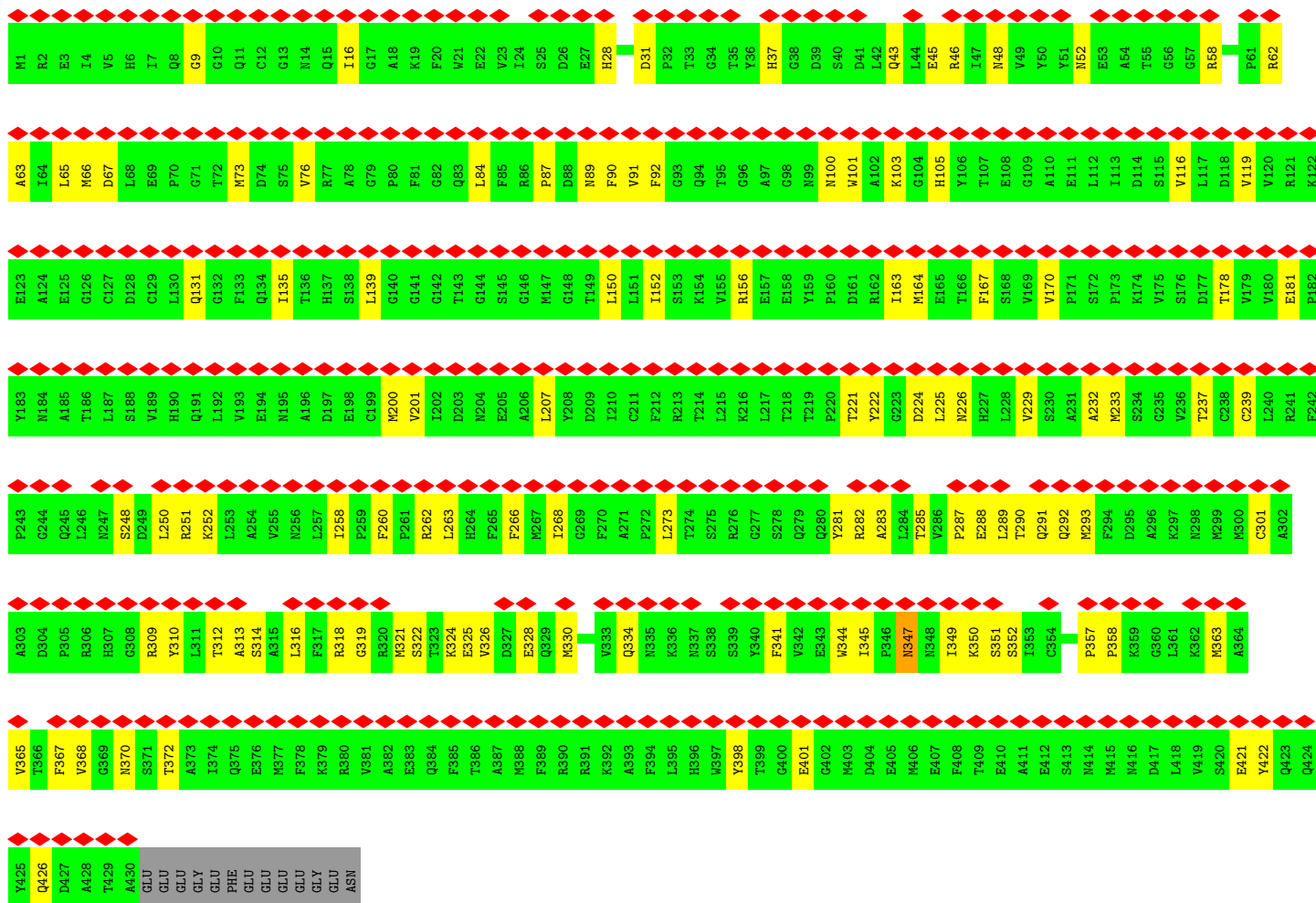
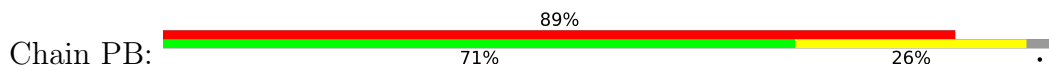


• Molecule 46: Tubulin beta chain



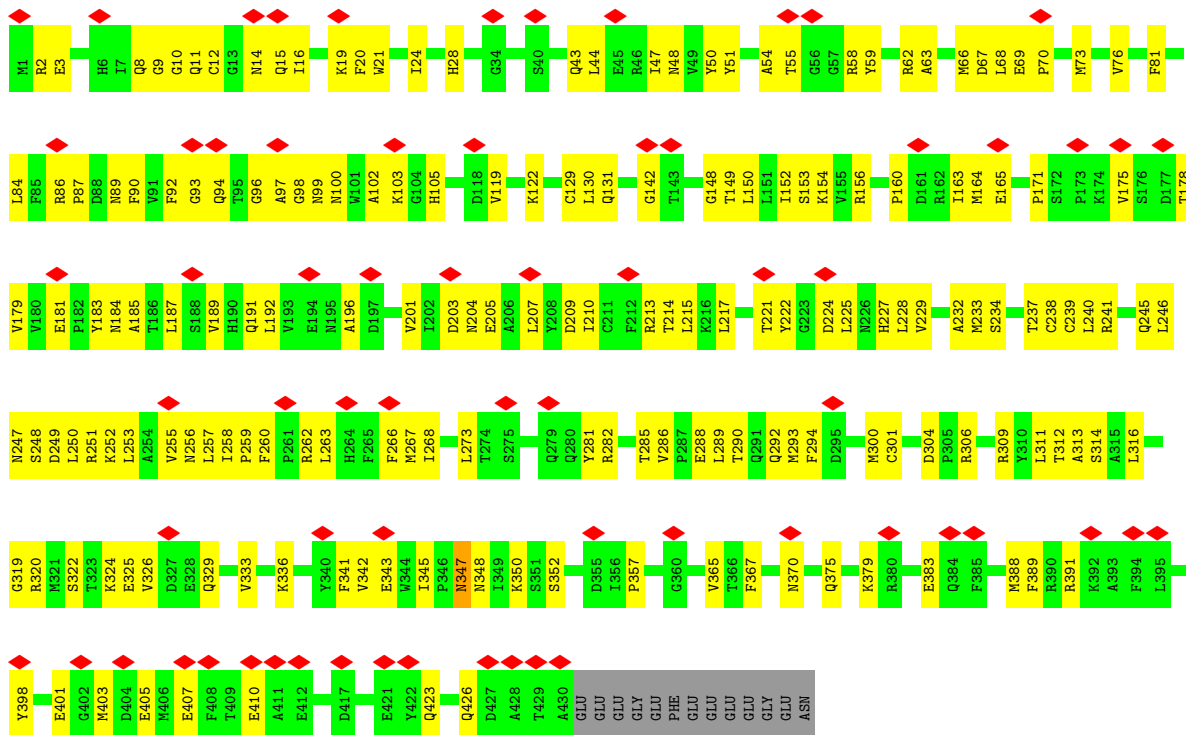


• Molecule 46: Tubulin beta chain

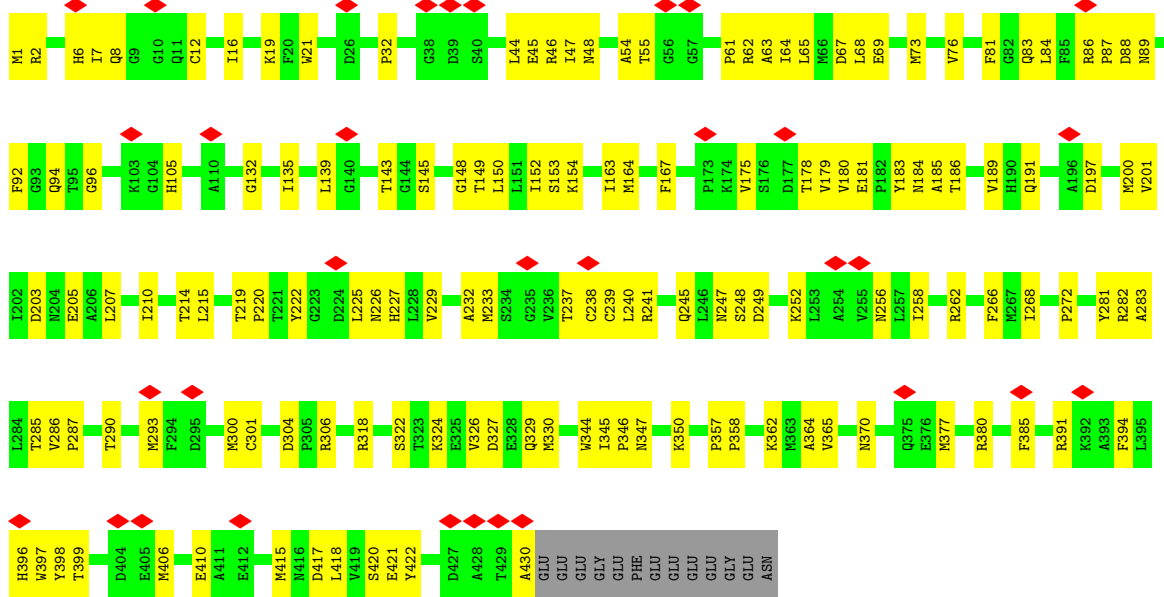


• Molecule 46: Tubulin beta chain

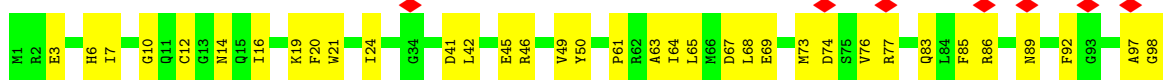


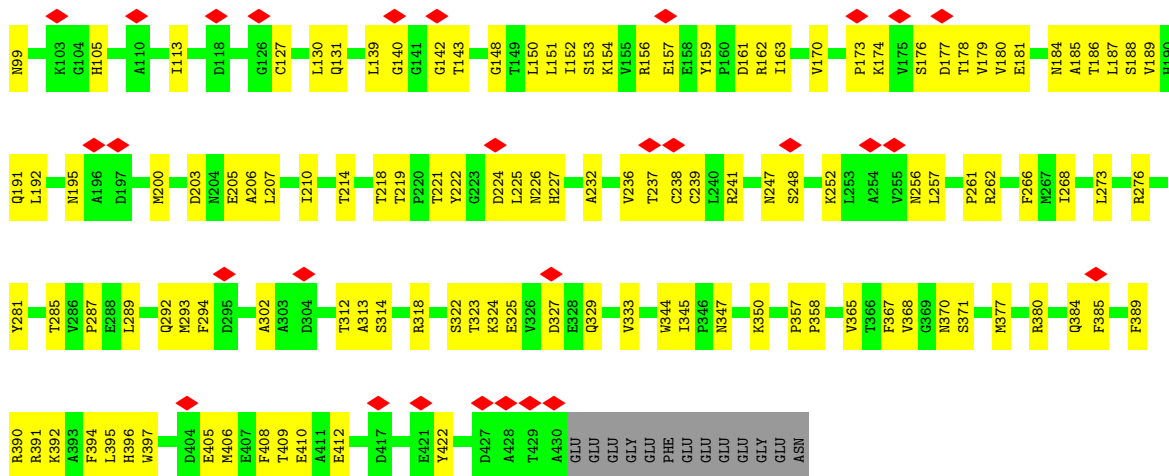


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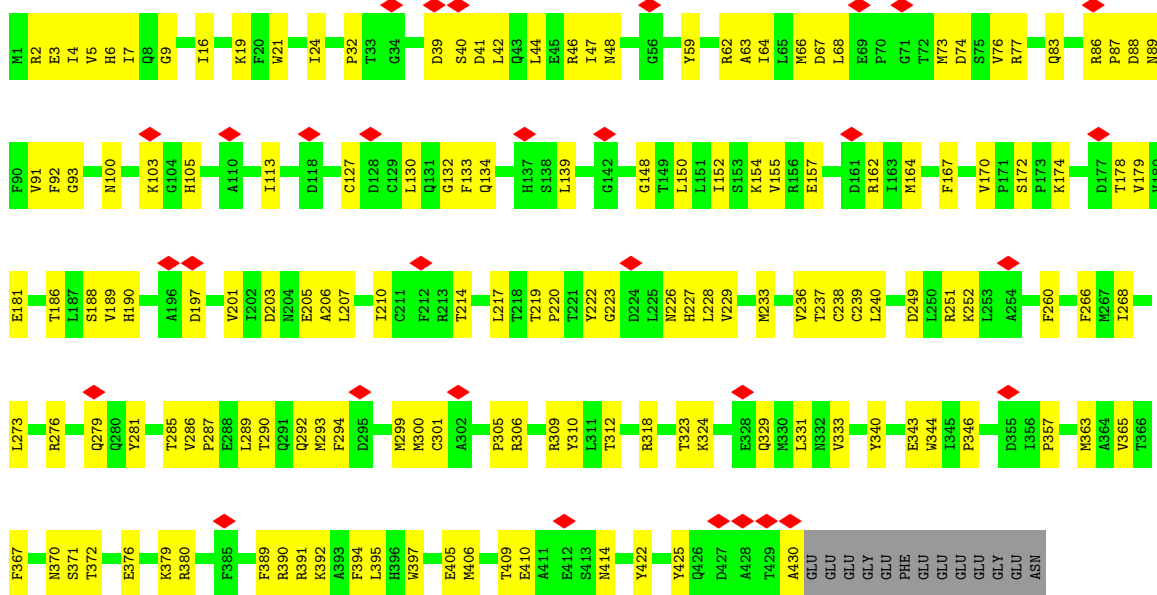


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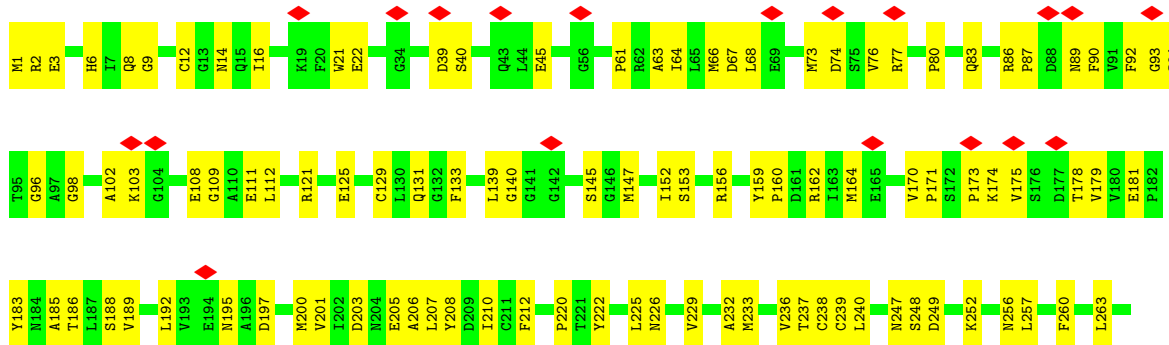


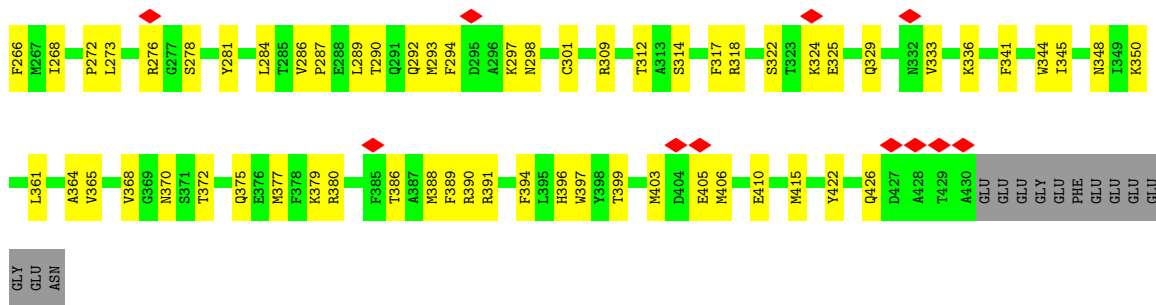


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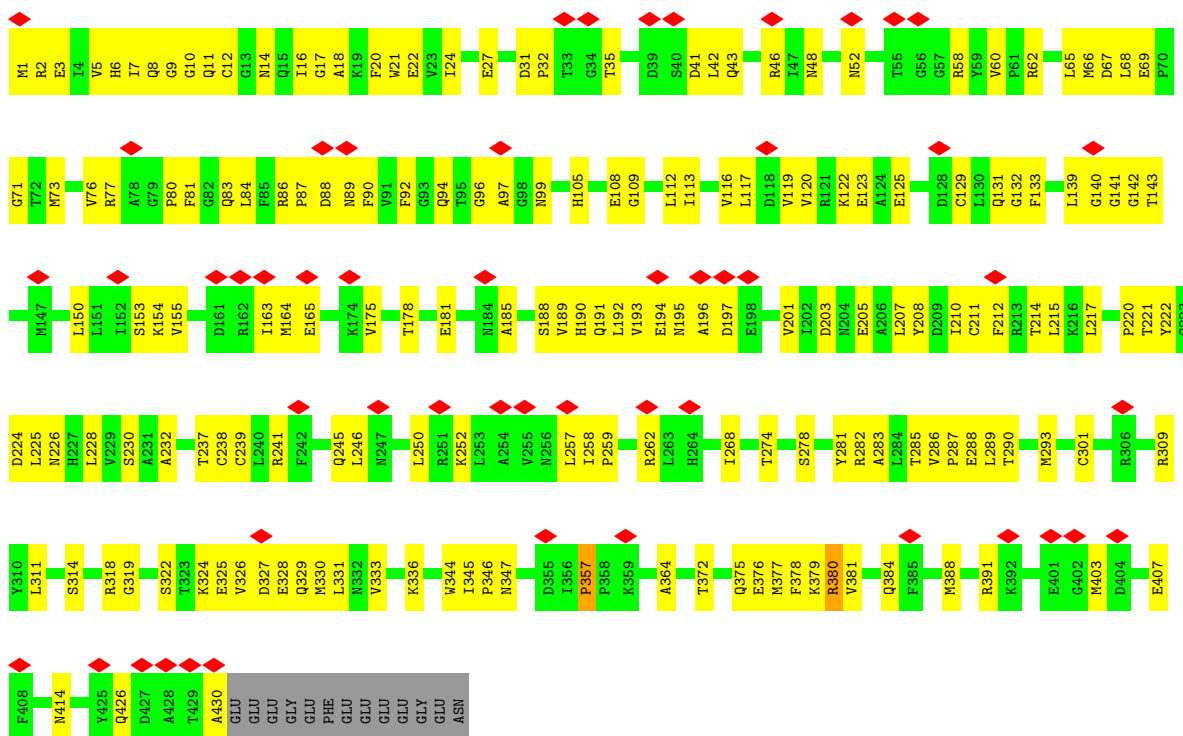


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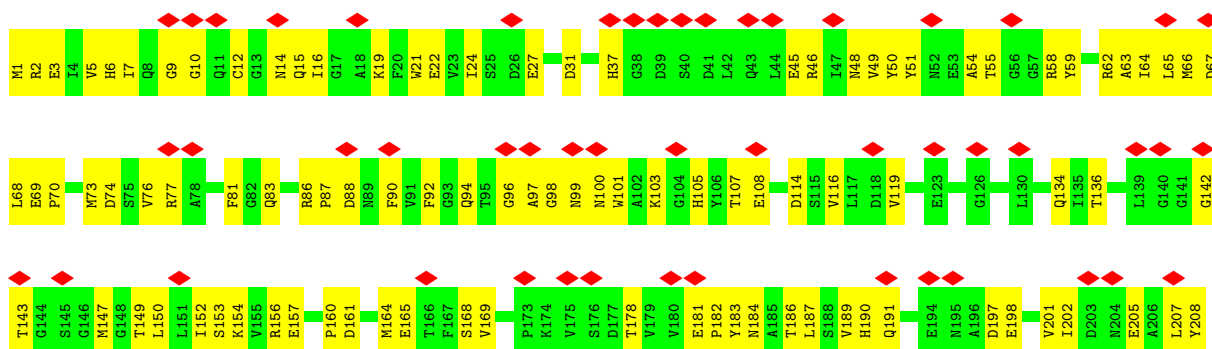




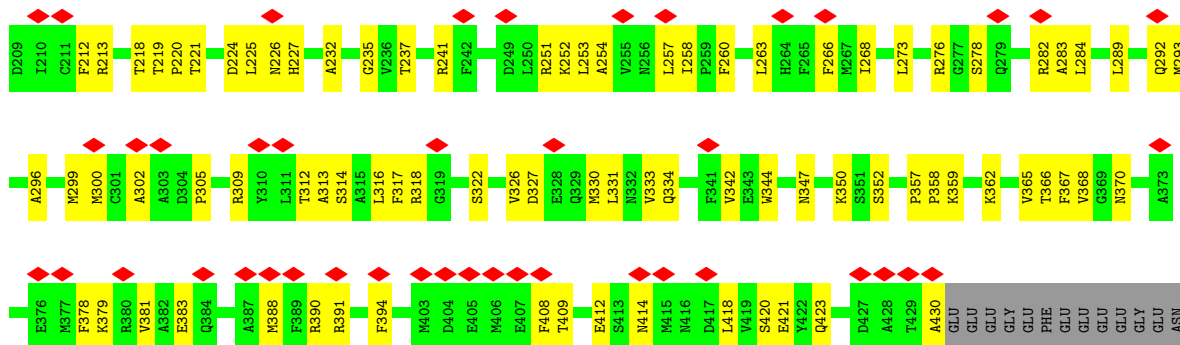
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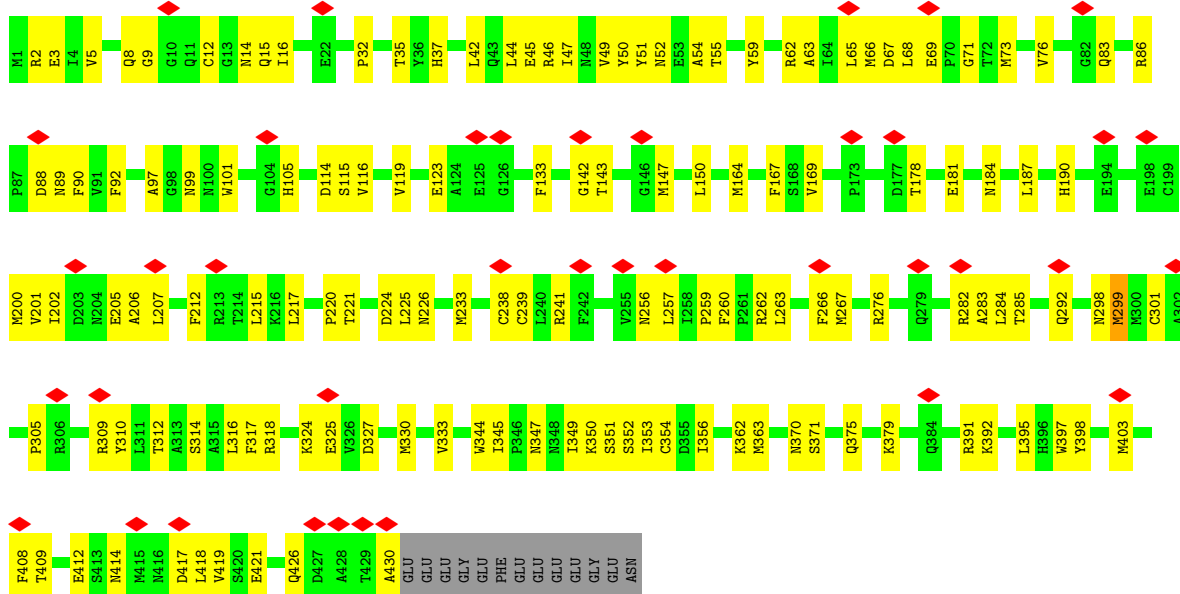
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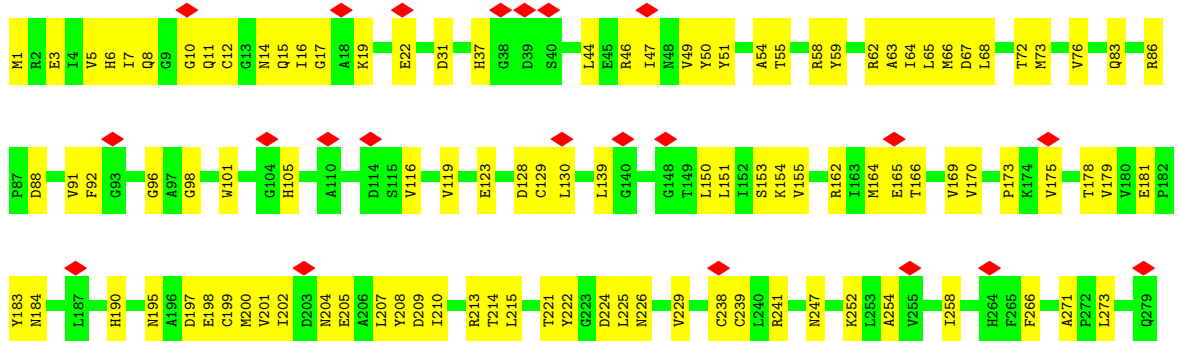


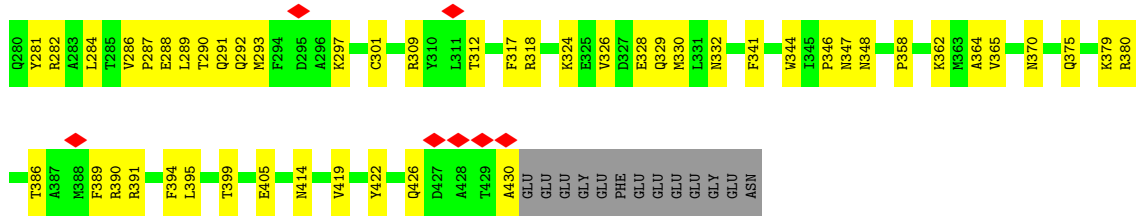


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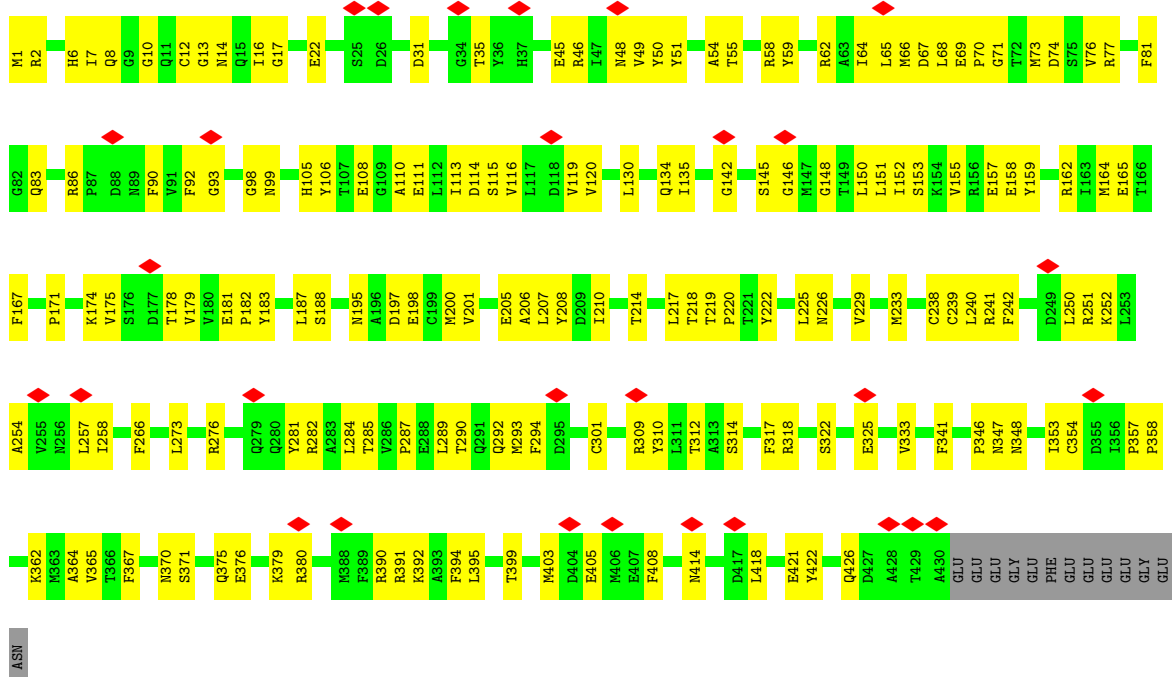


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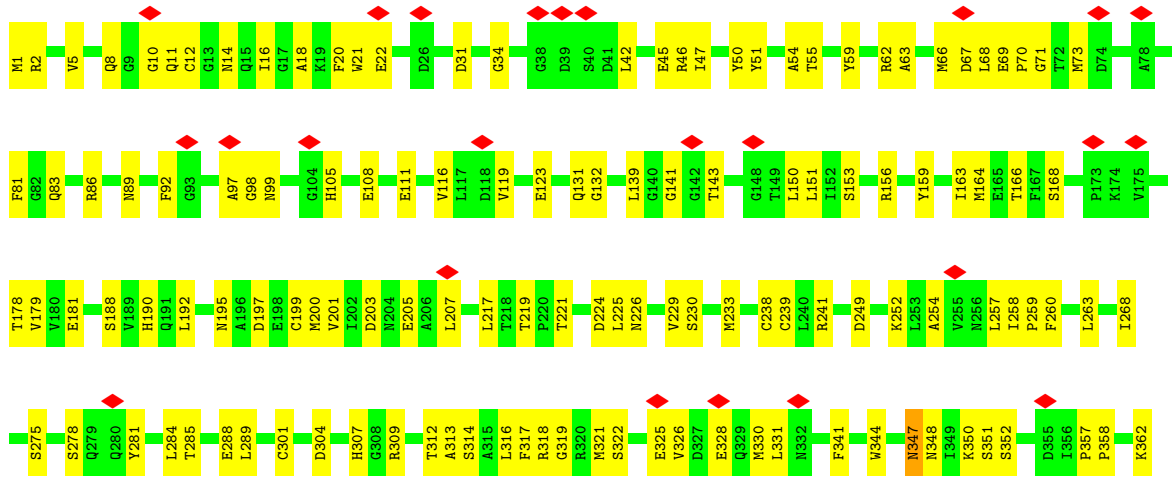


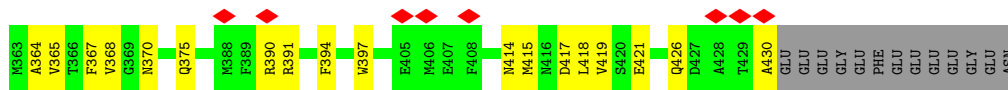


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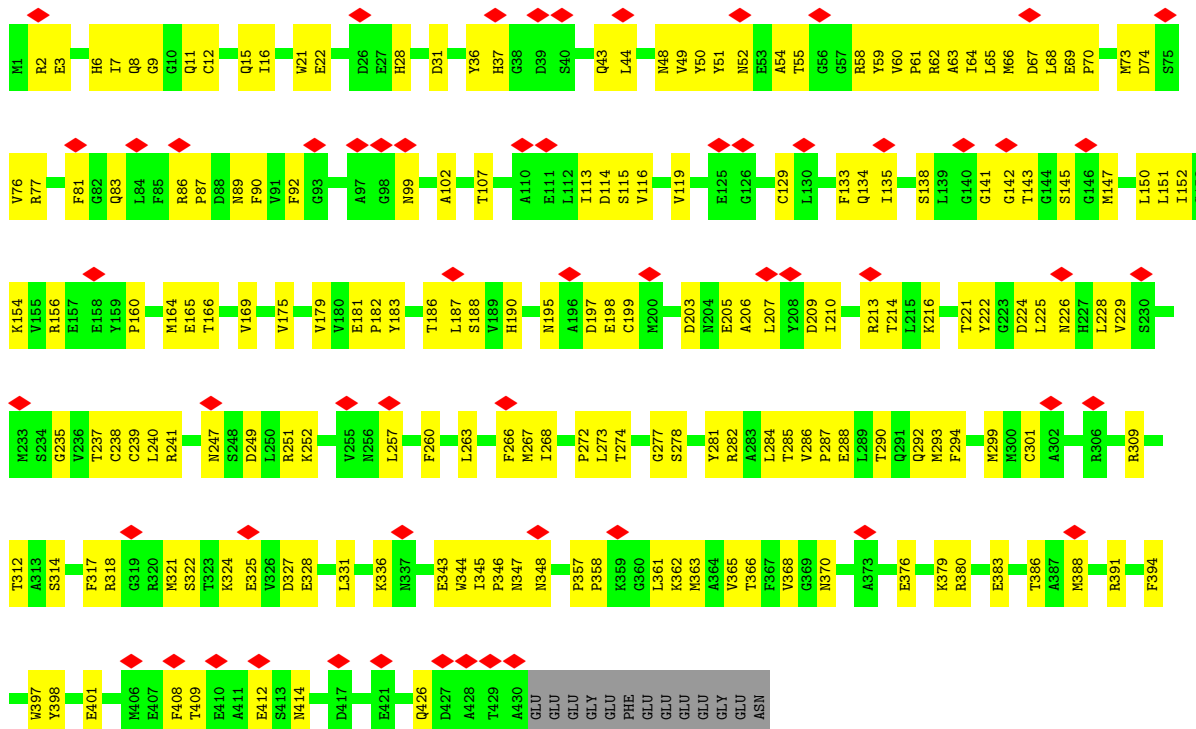


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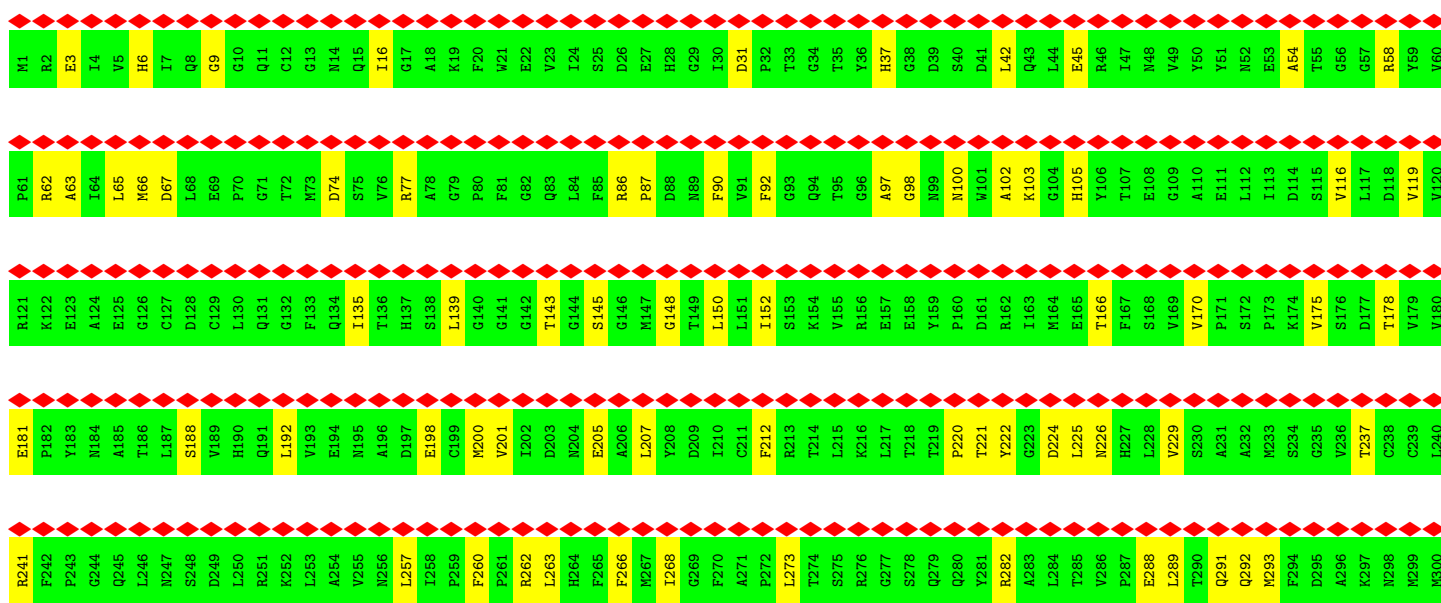
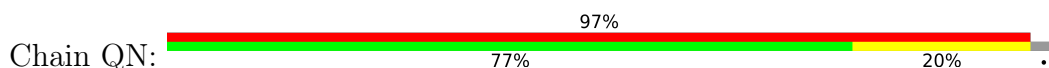


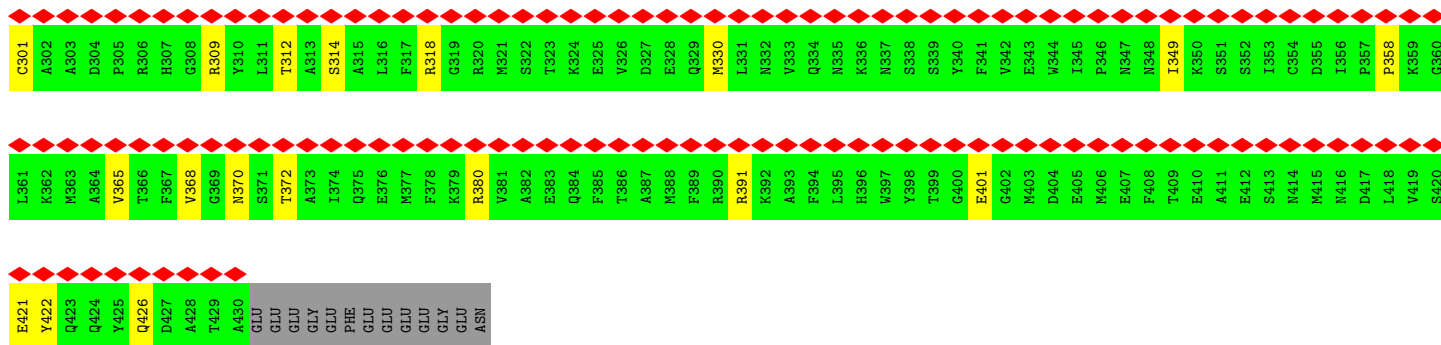


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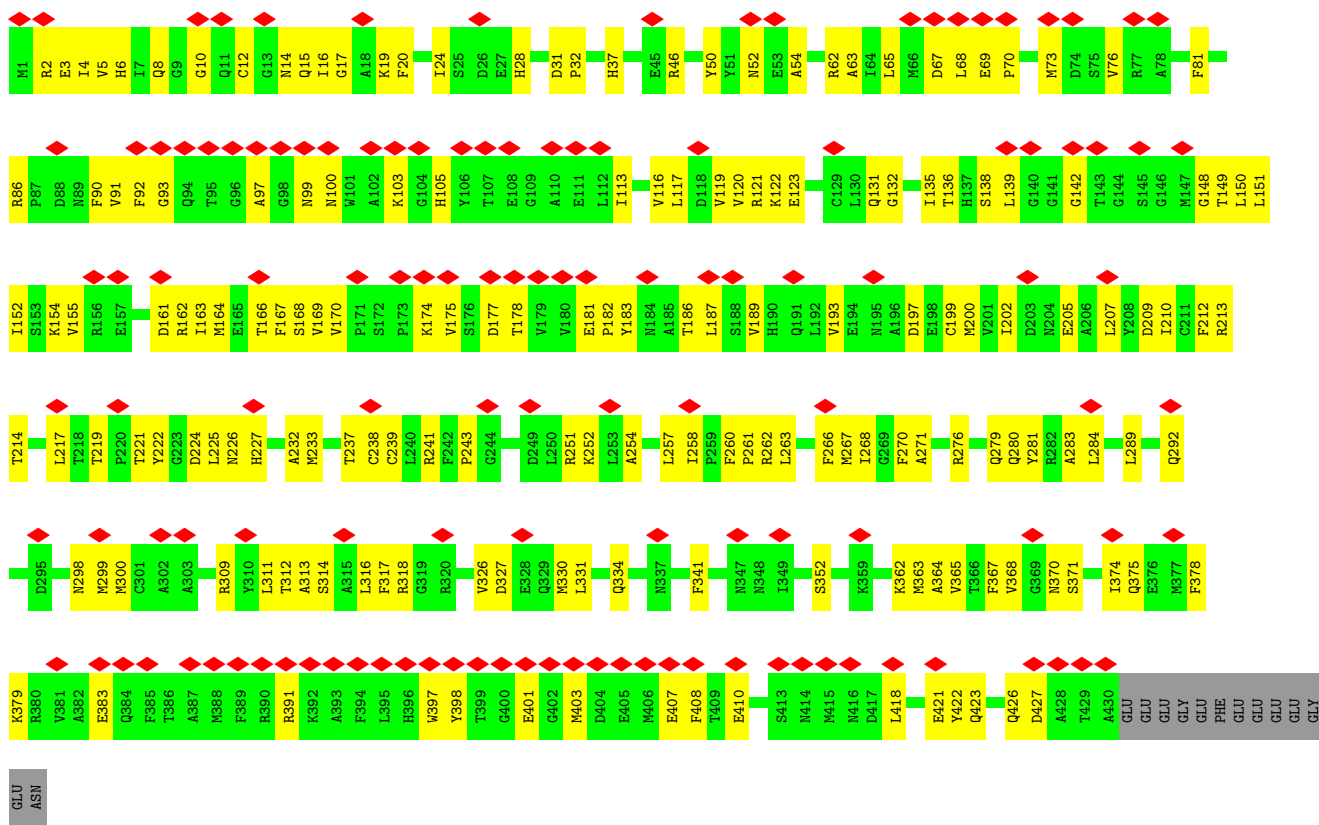


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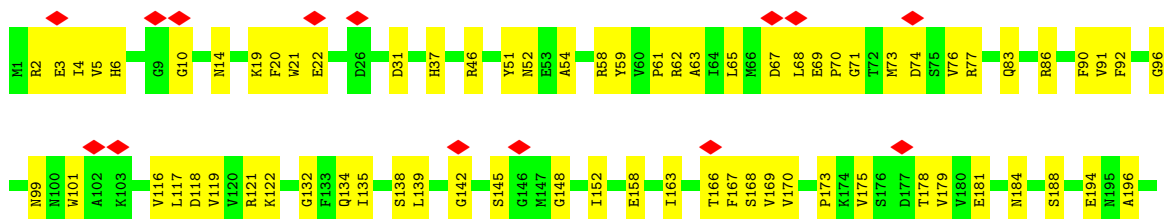


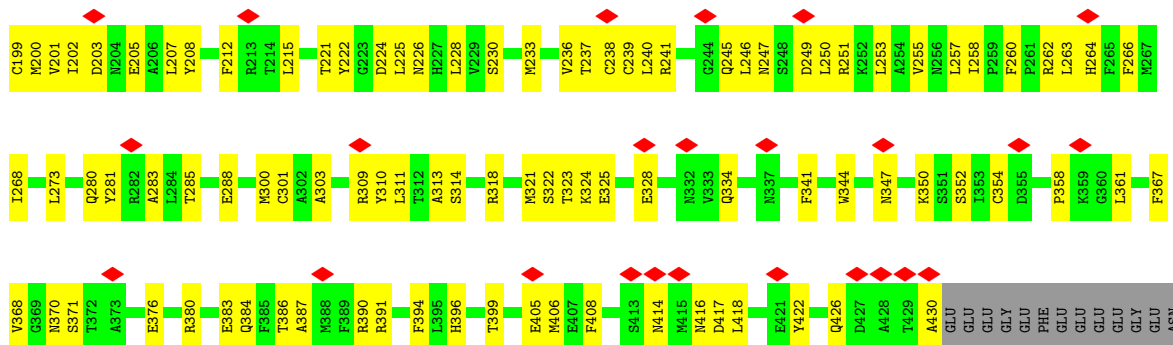


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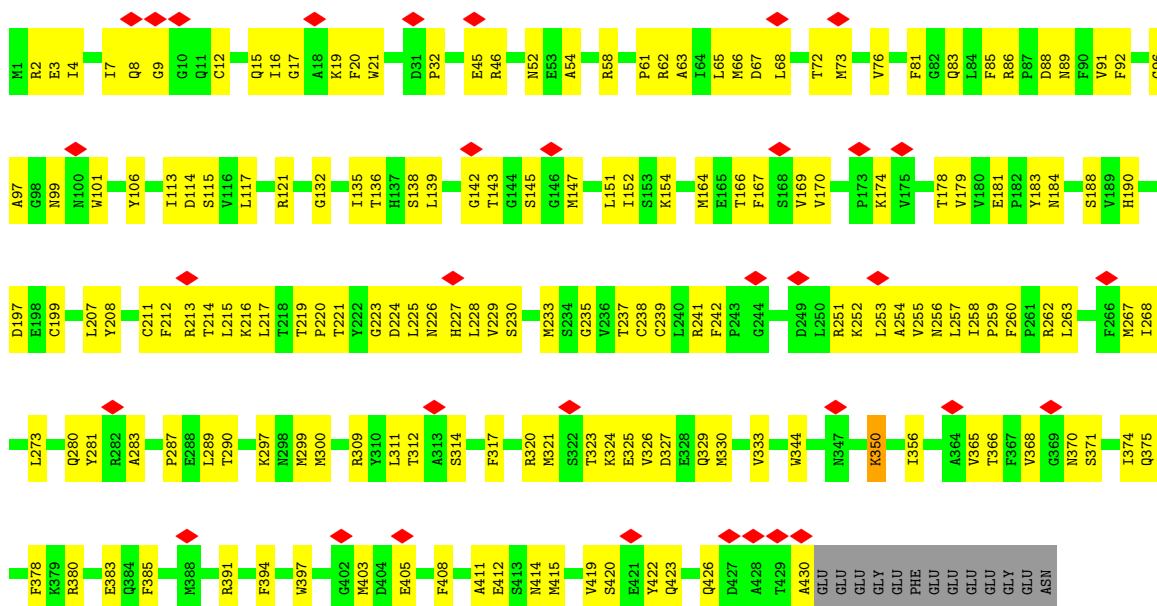


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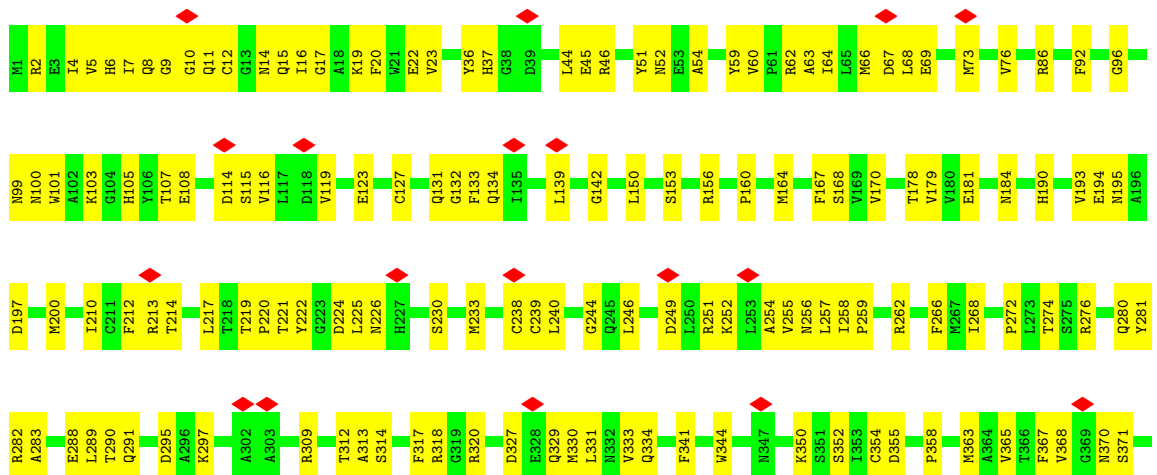


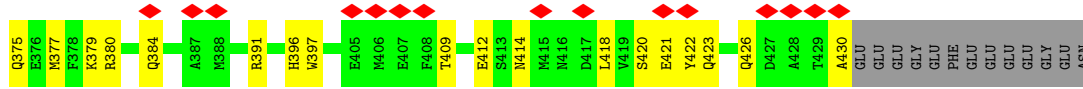


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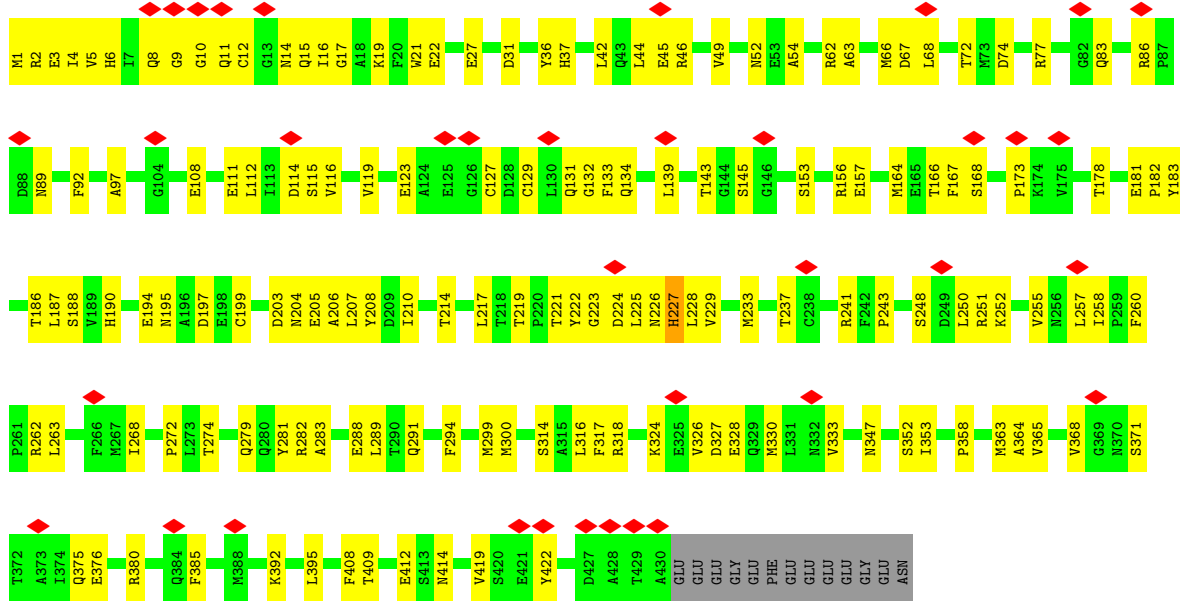


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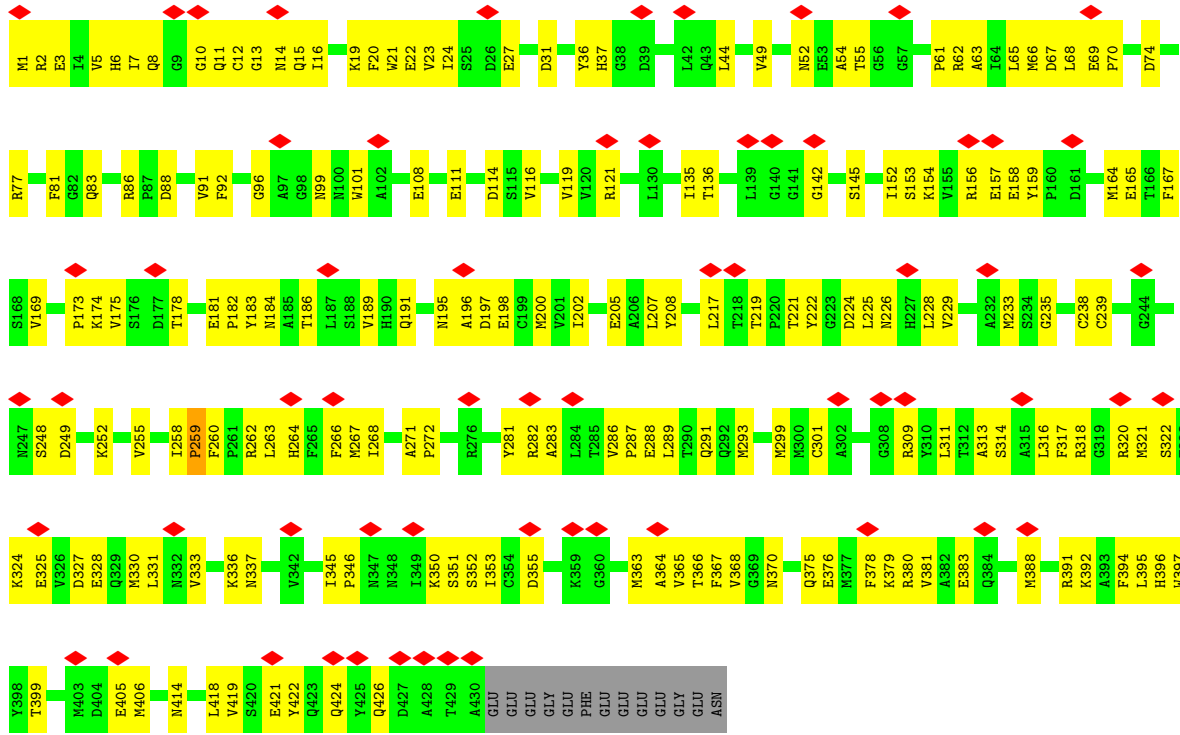




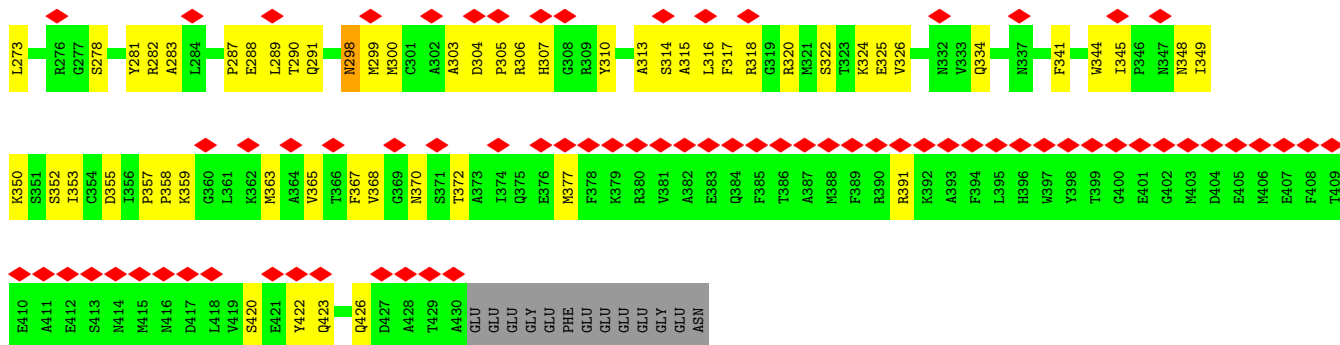
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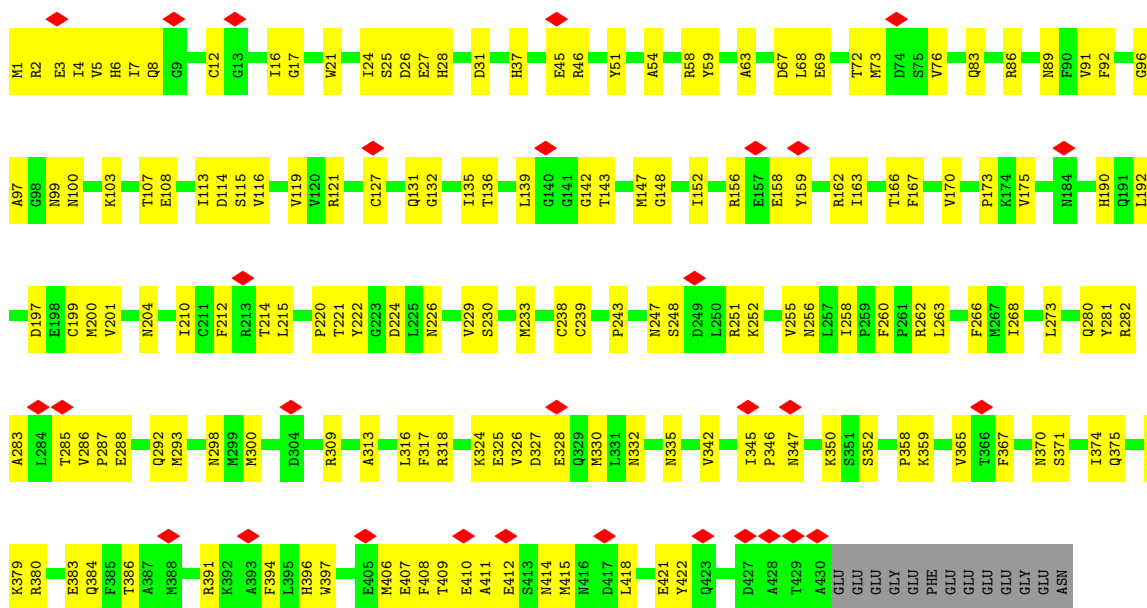
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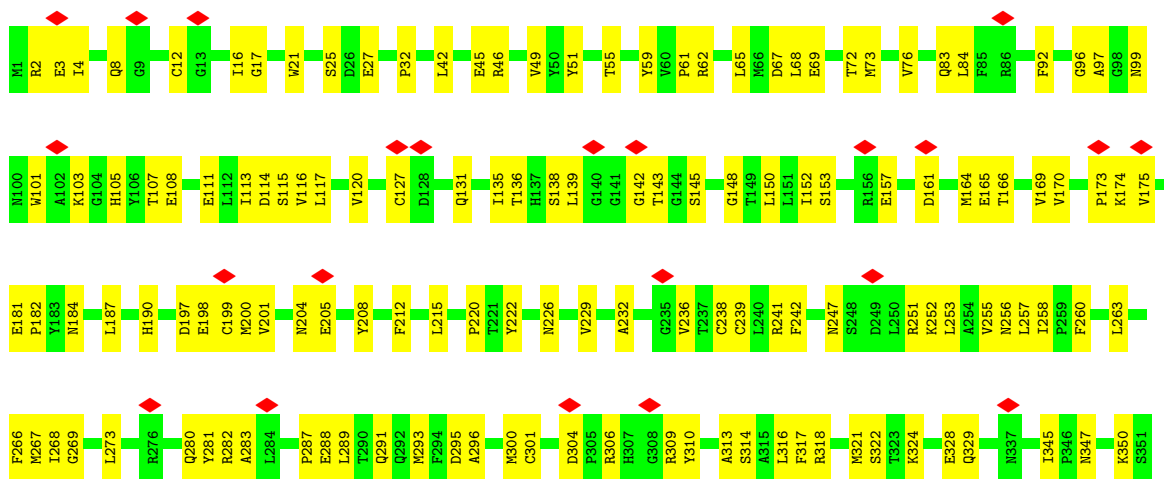




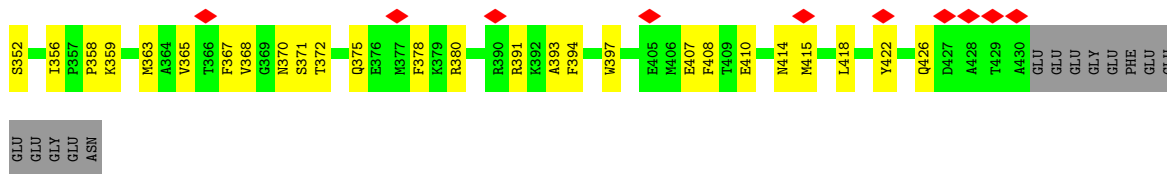
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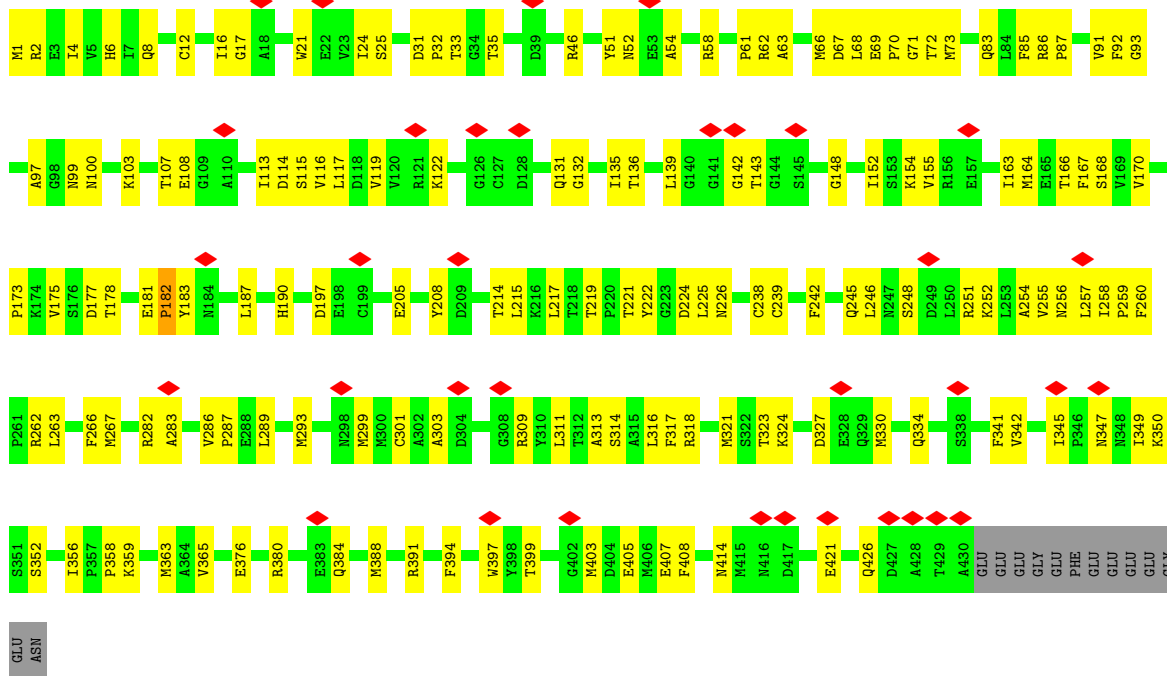
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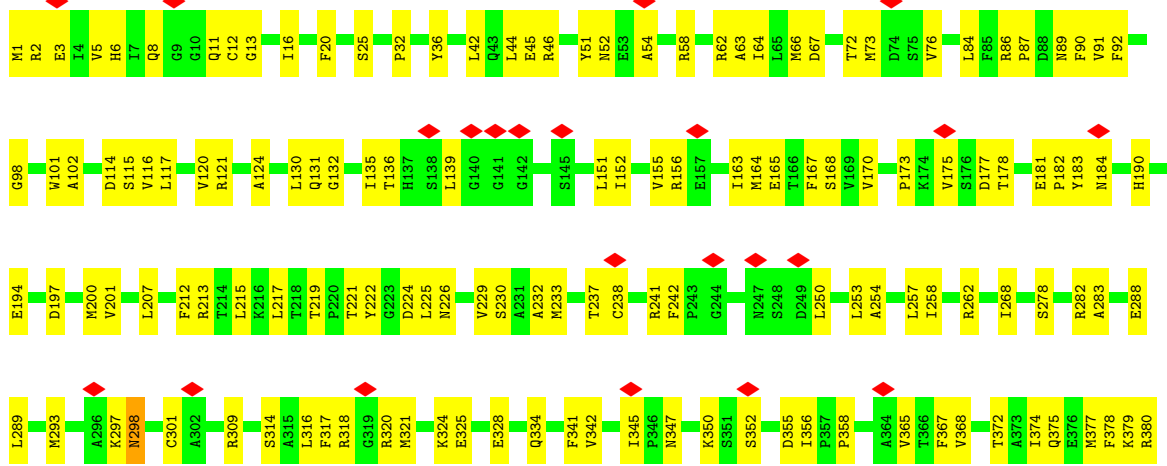


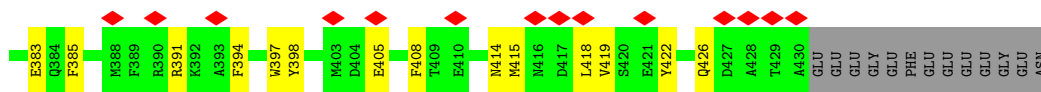


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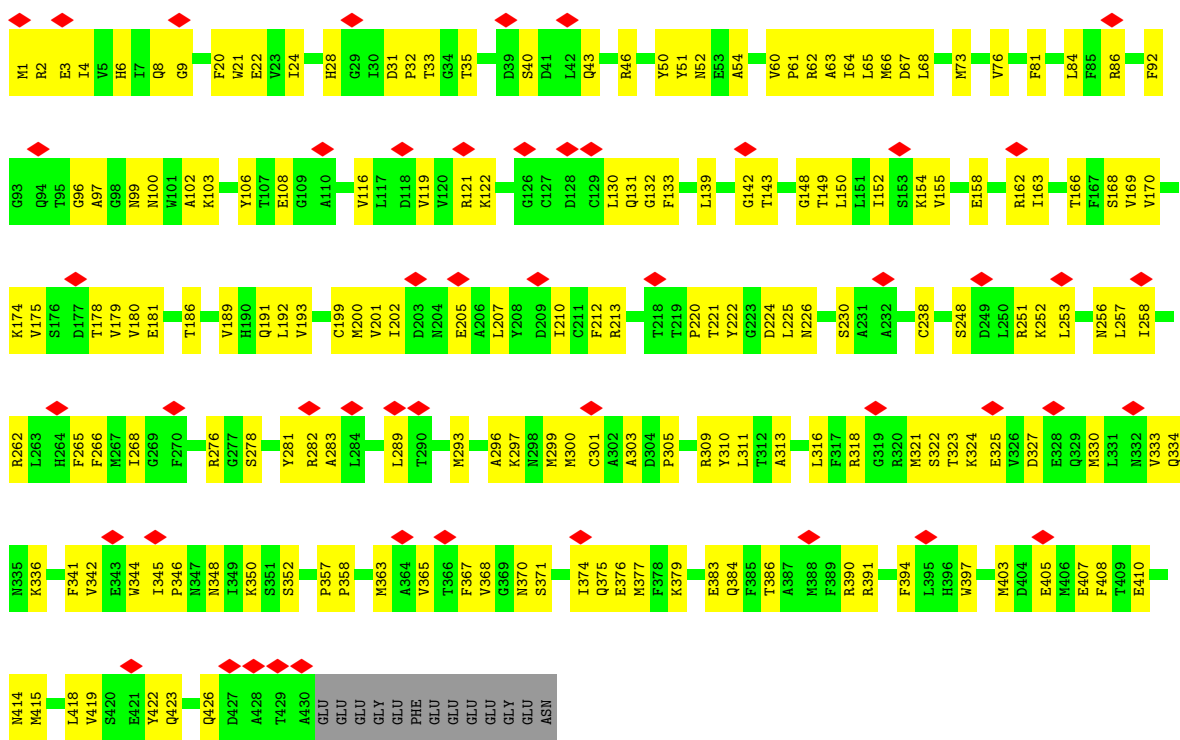


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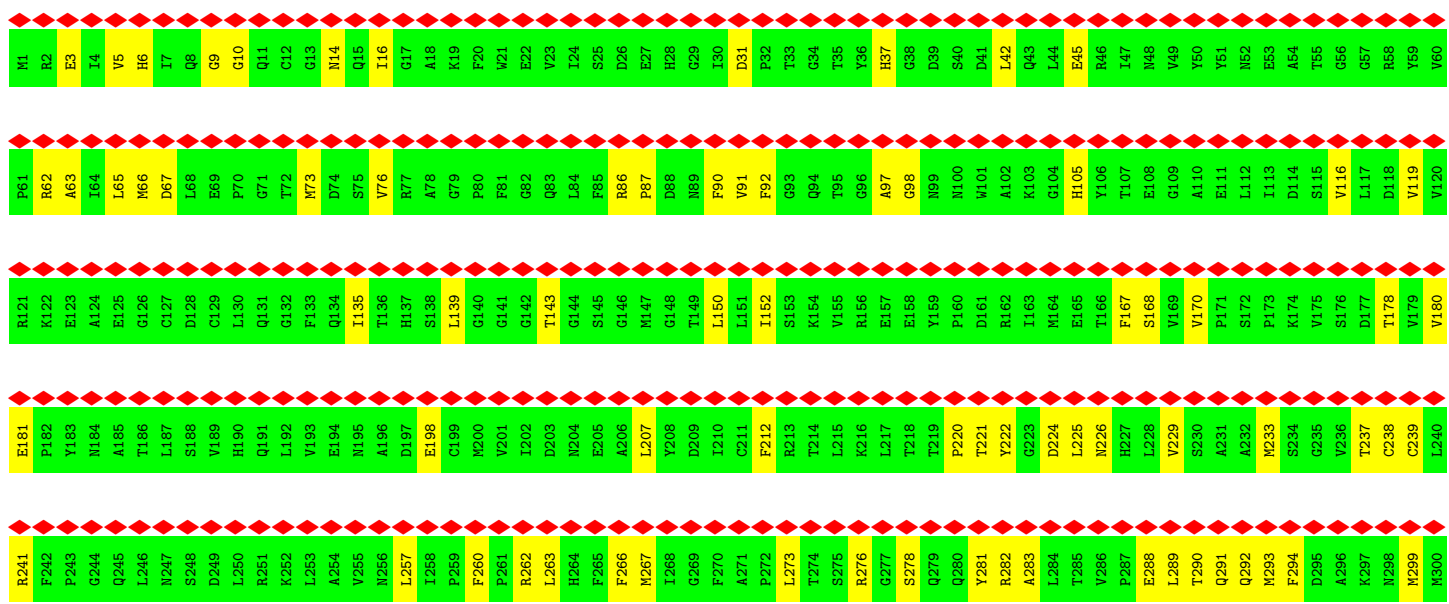
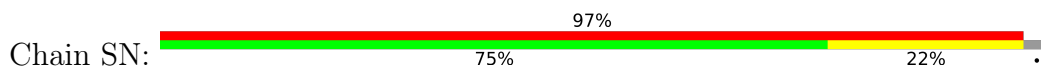


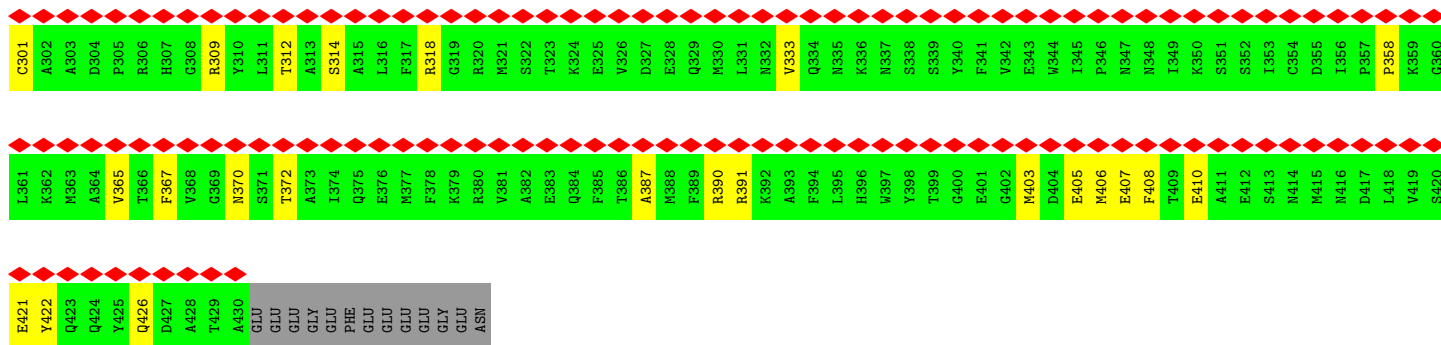


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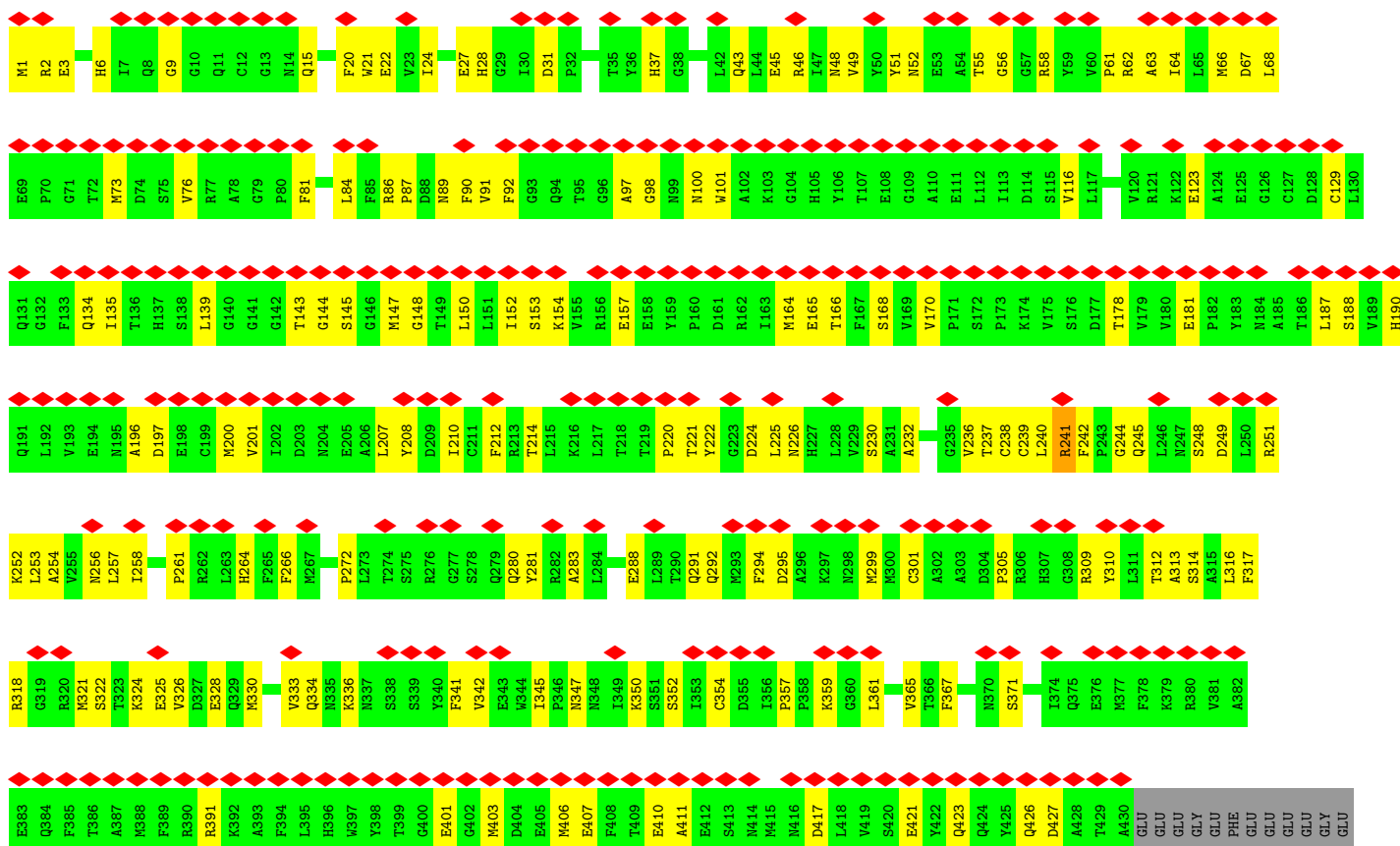


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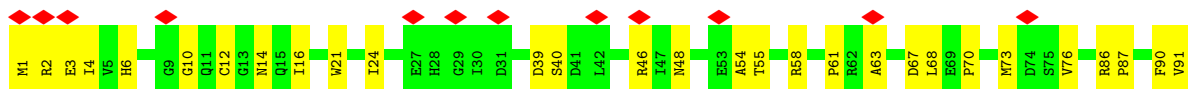


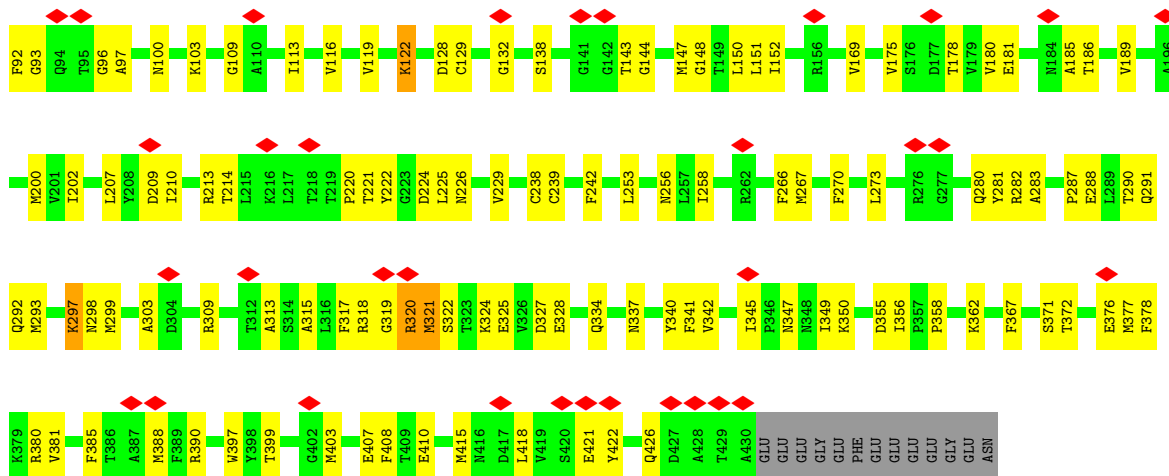


• Molecule 46: Tubulin beta chain

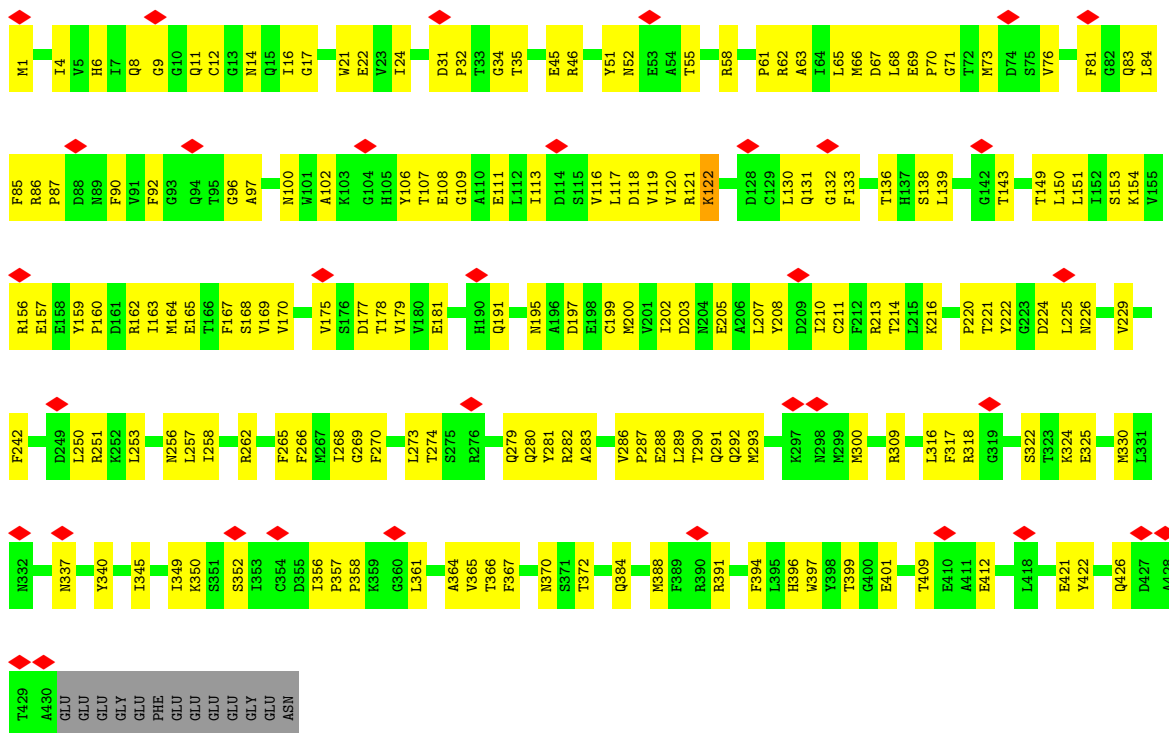


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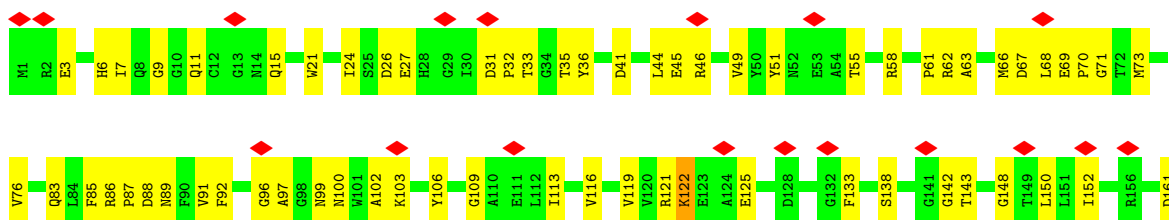


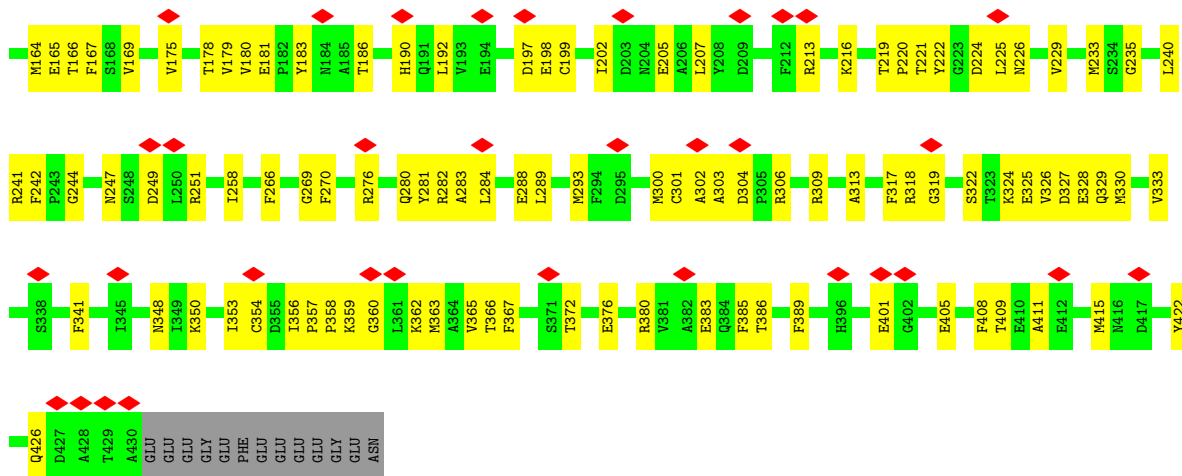


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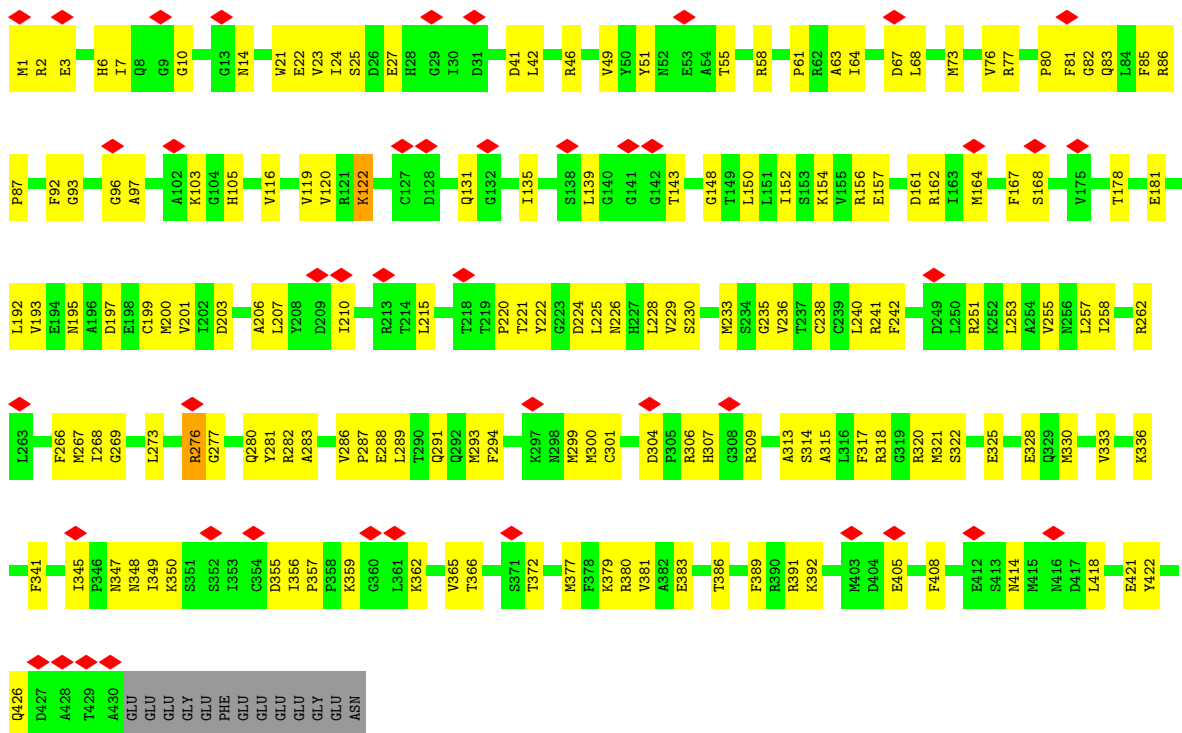


• Molecule 46: Tubulin beta chain

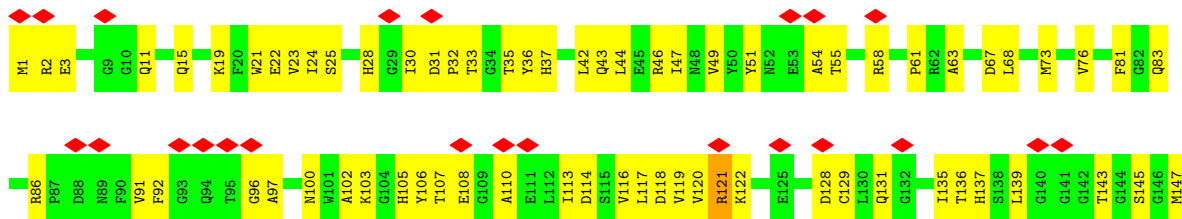


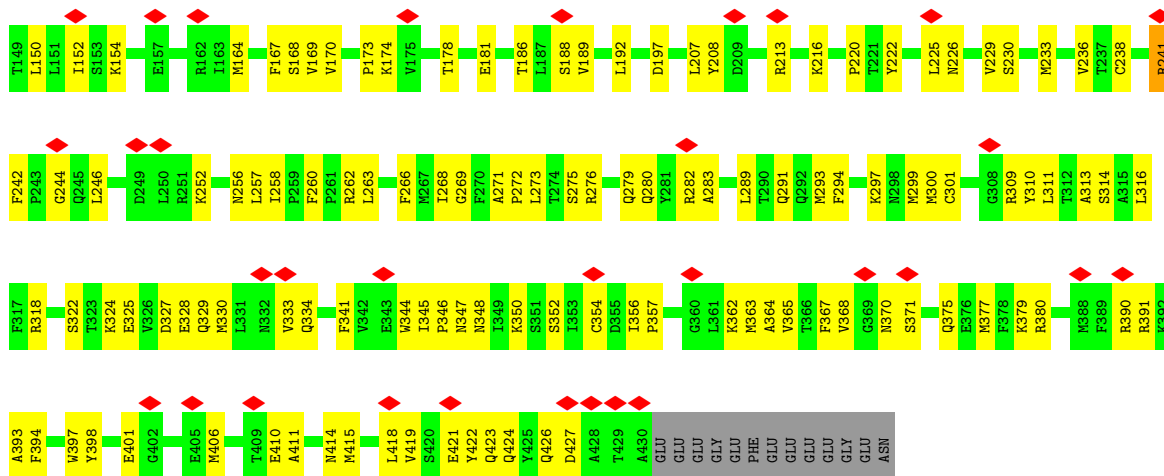


• Molecule 46: Tubulin beta chain

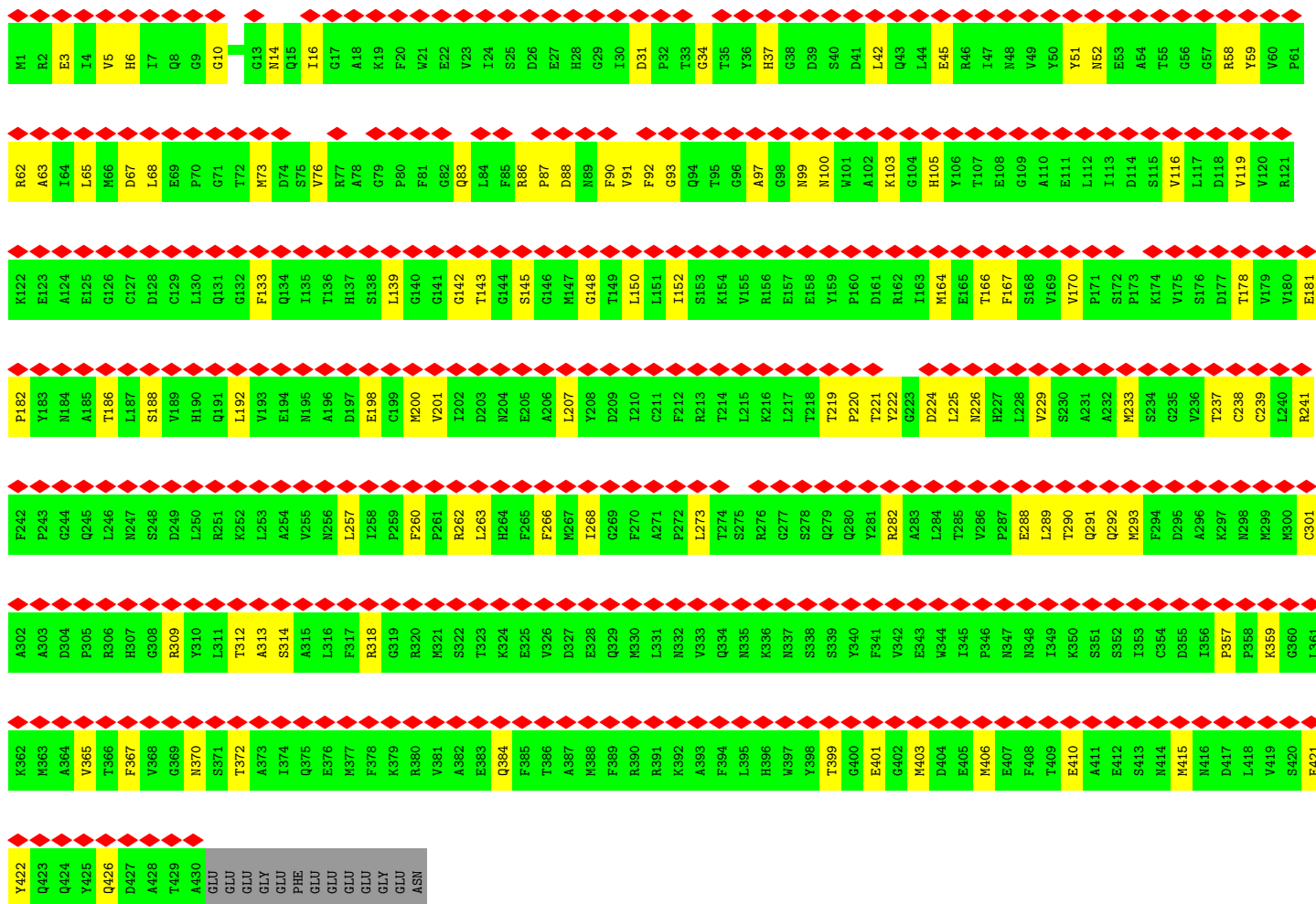
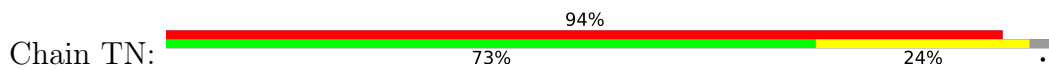


• Molecule 46: Tubulin beta chain



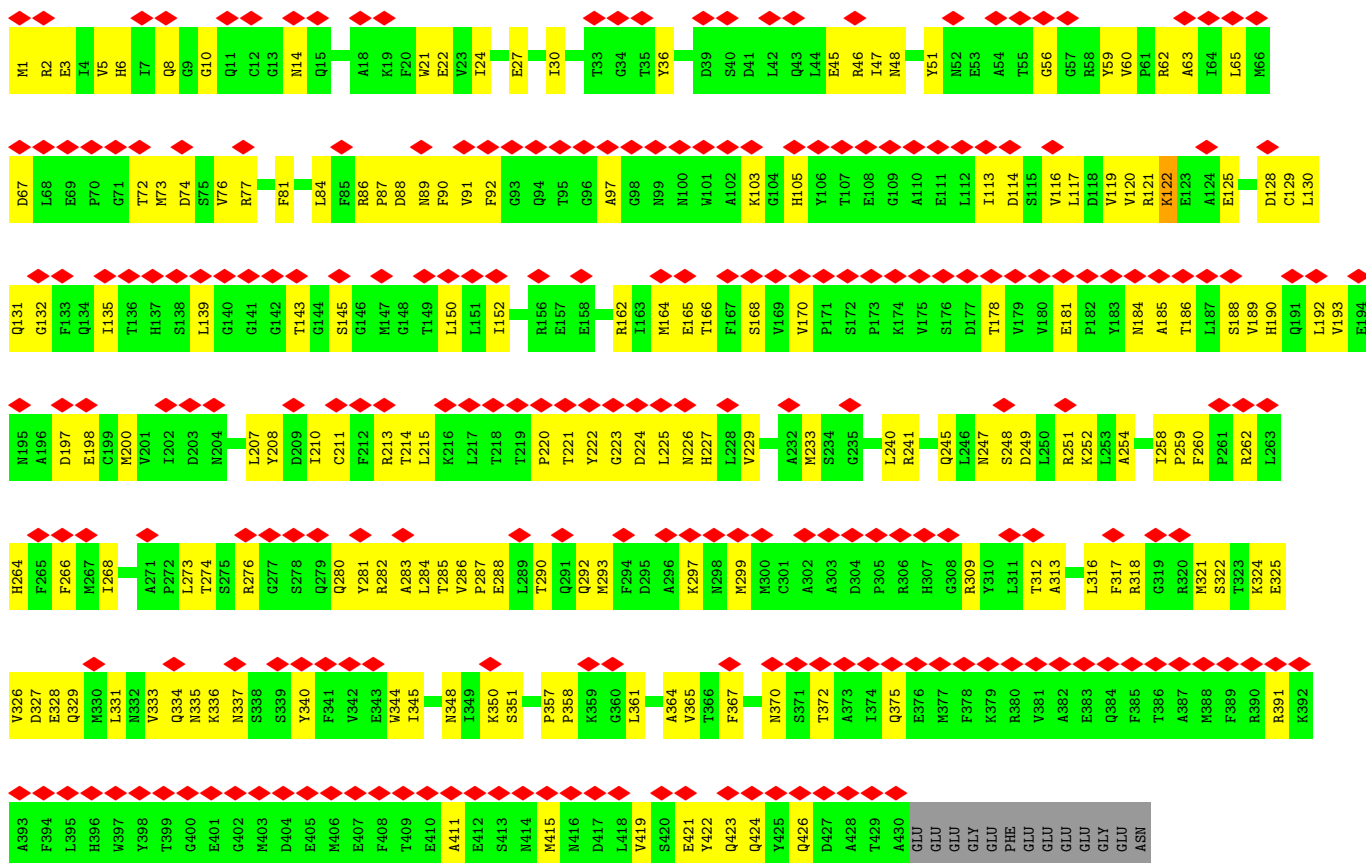


• Molecule 46: Tubulin beta chain

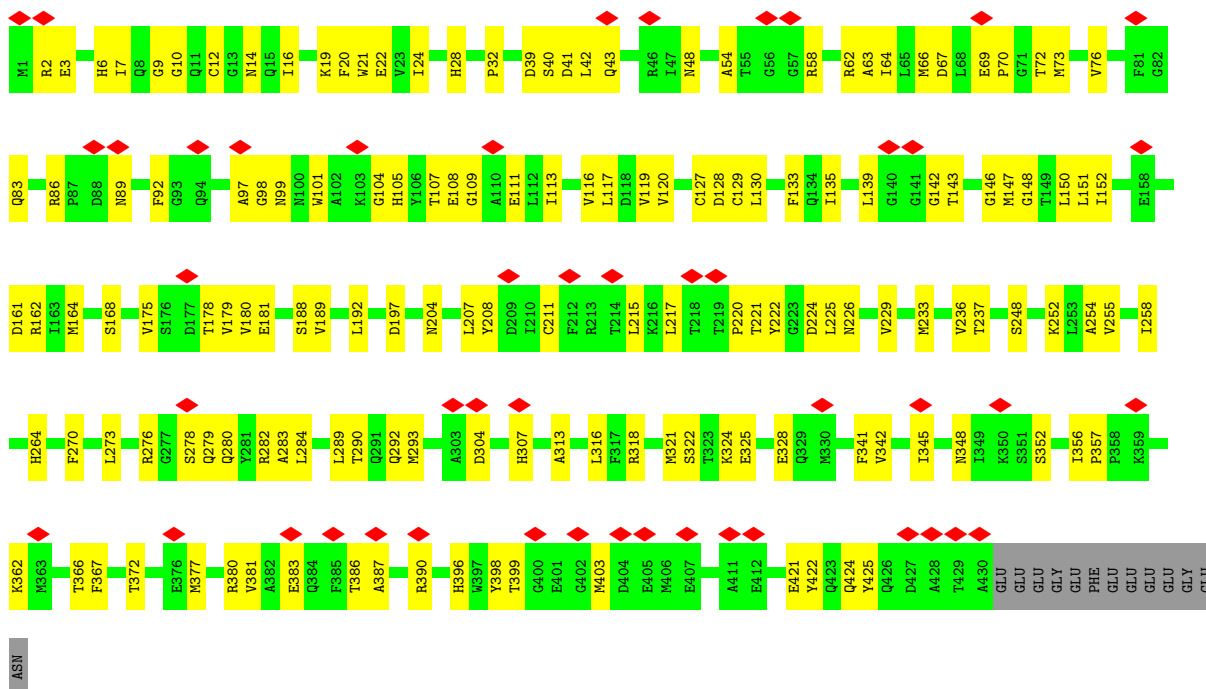


• Molecule 46: Tubulin beta chain

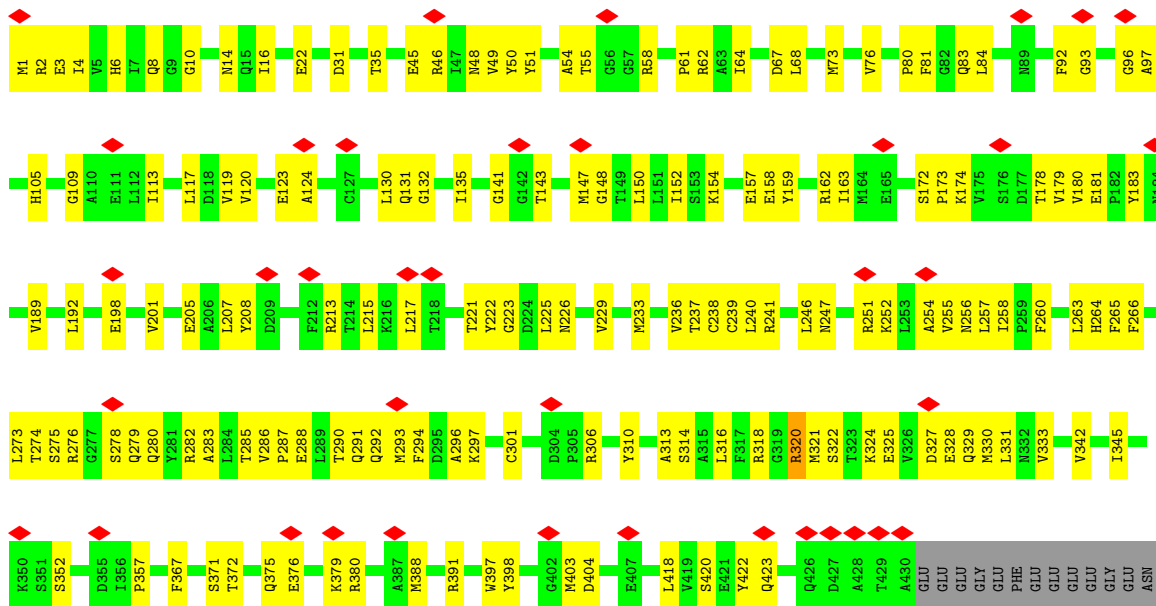




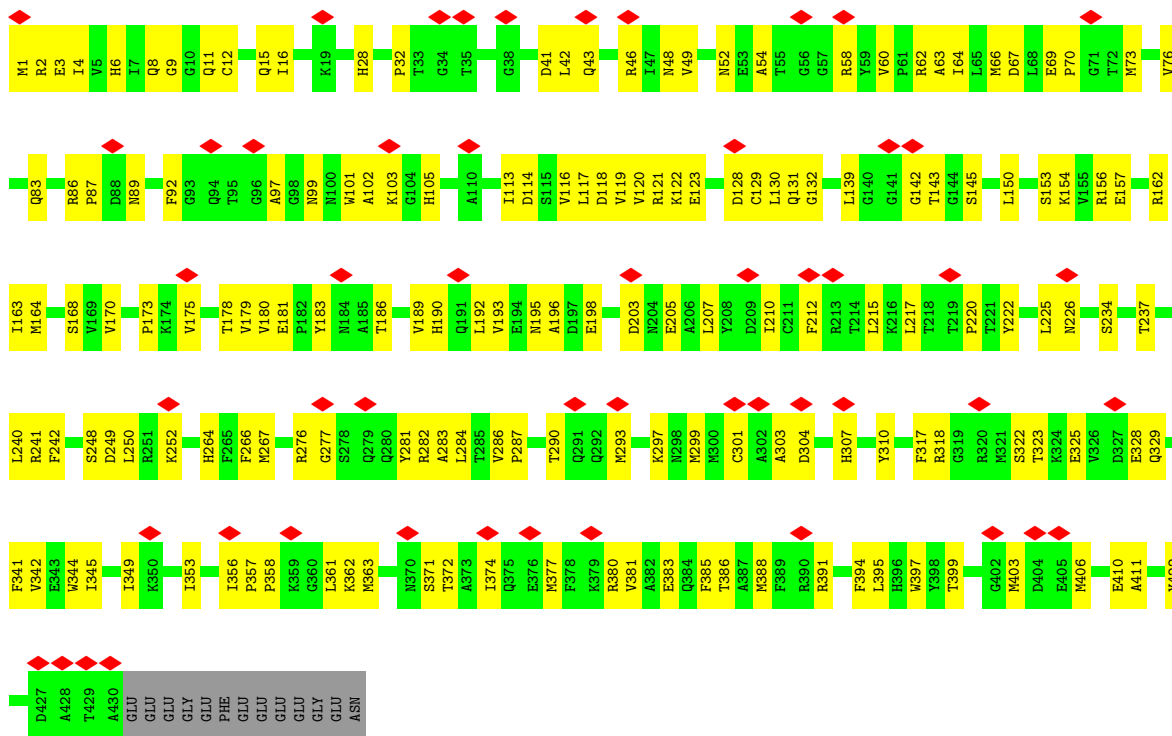
• Molecule 46: Tubulin beta chain



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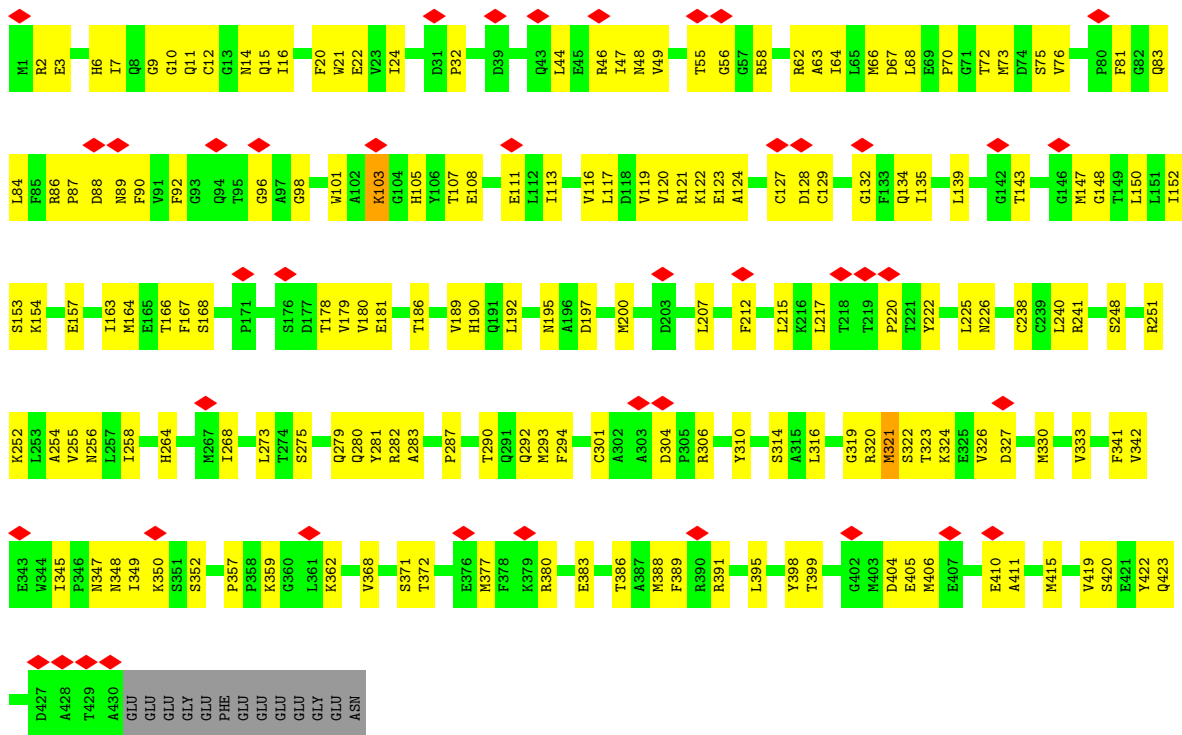
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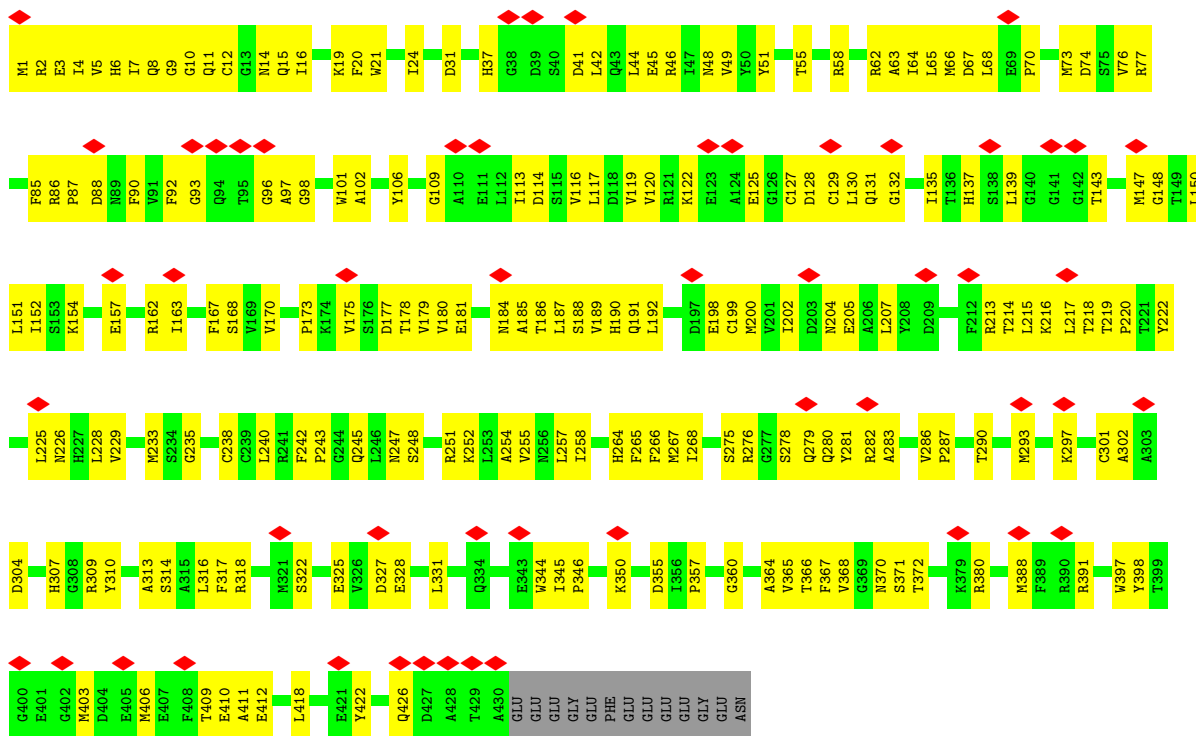
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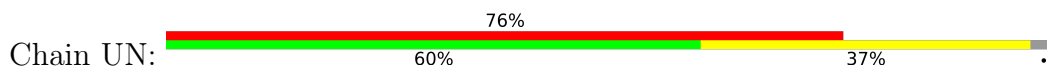


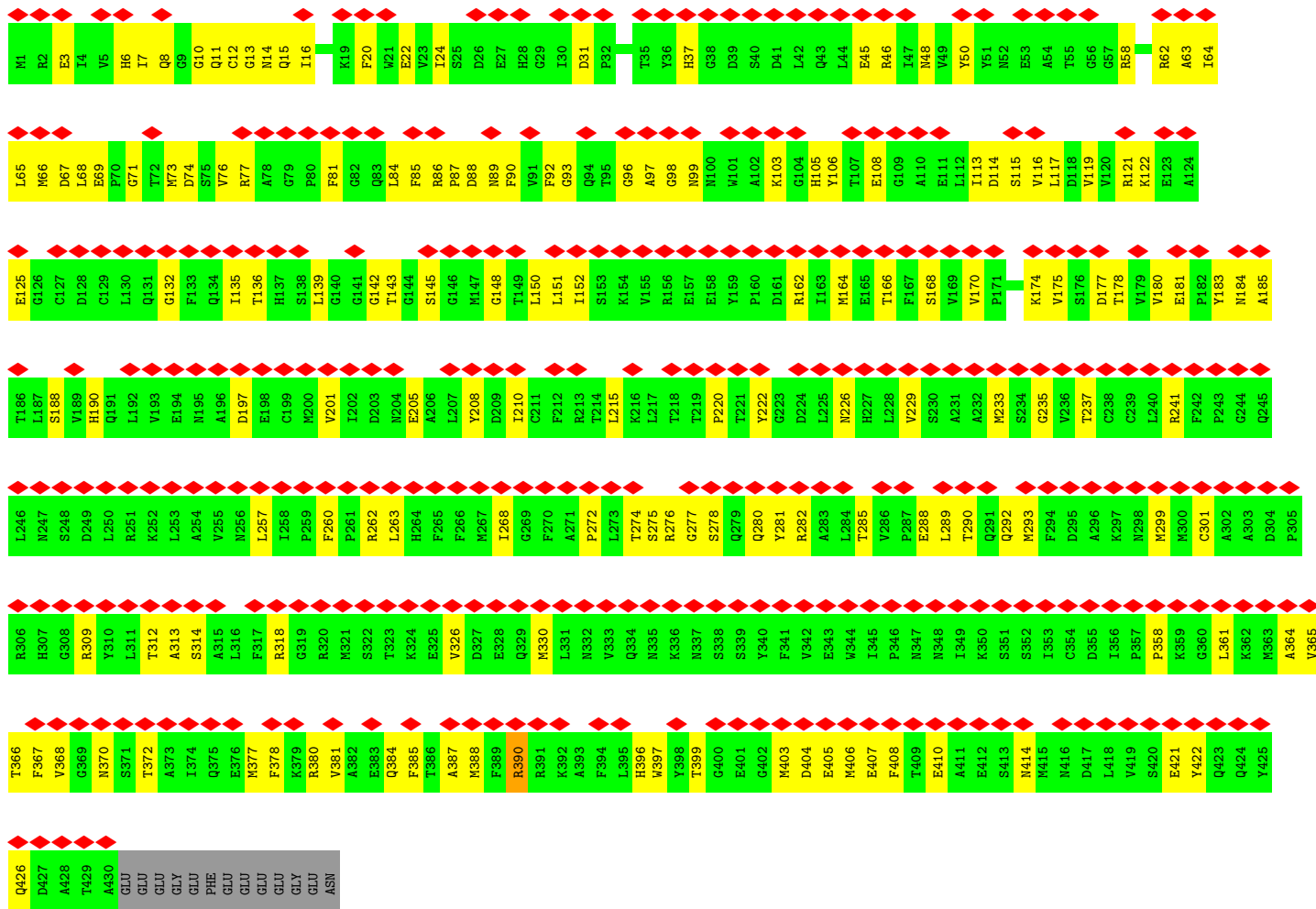


• Molecule 46: Tubulin beta chain

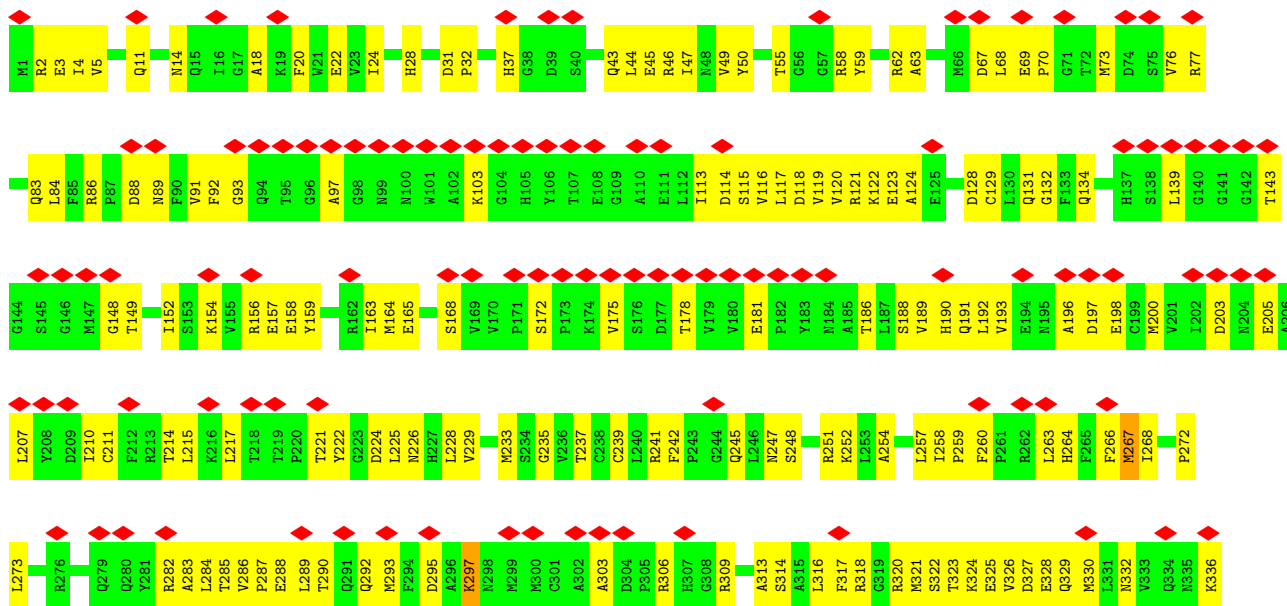
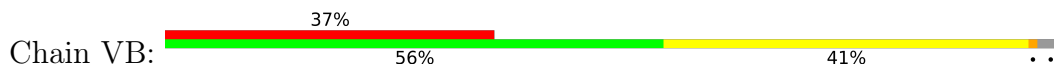


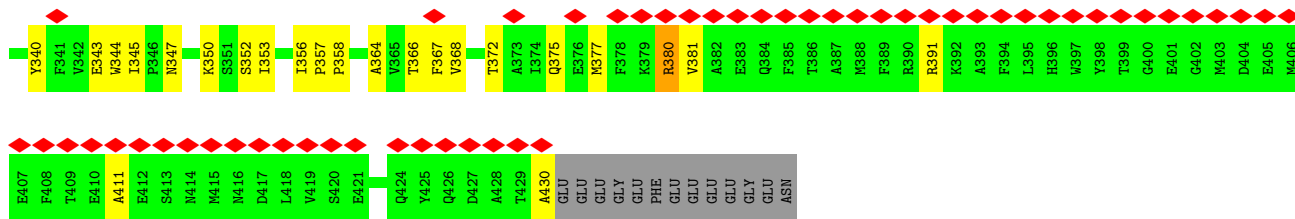
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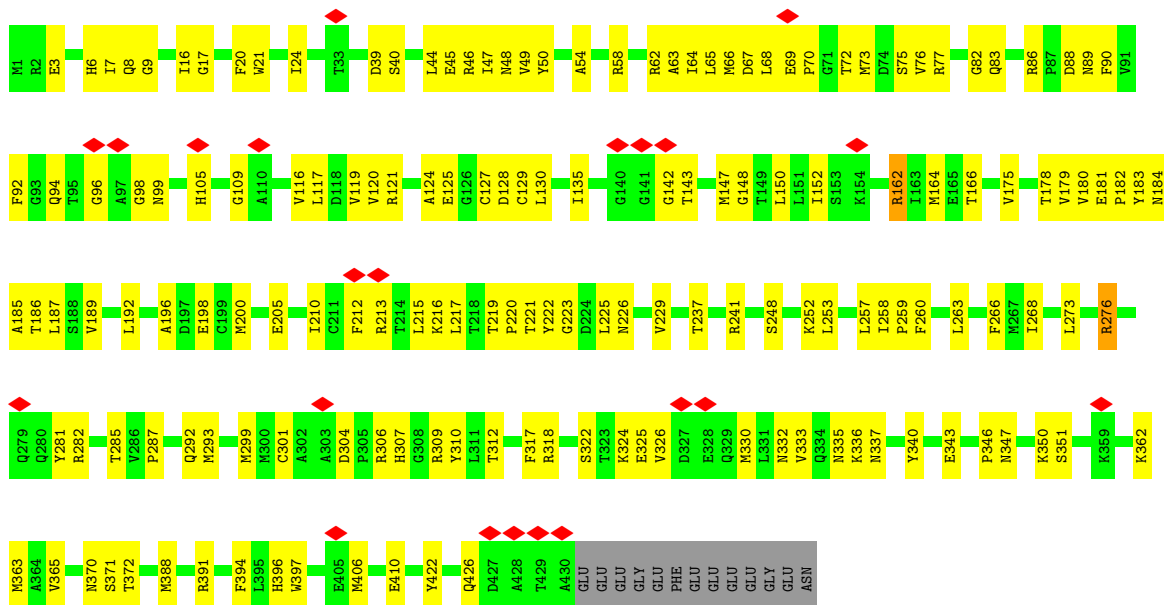


• Molecule 46: Tubulin beta chain

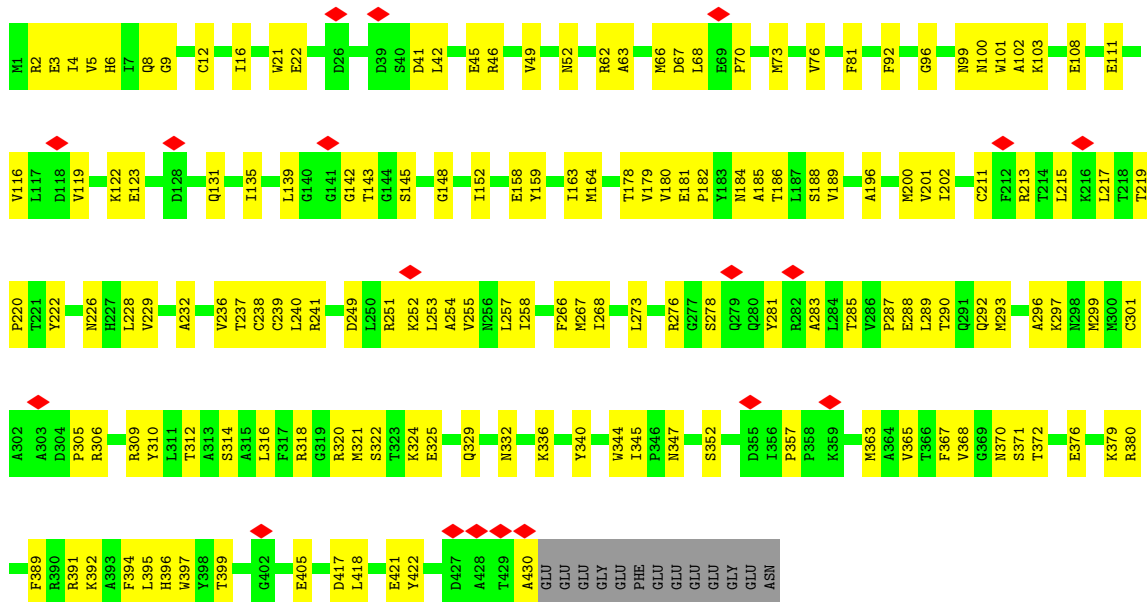




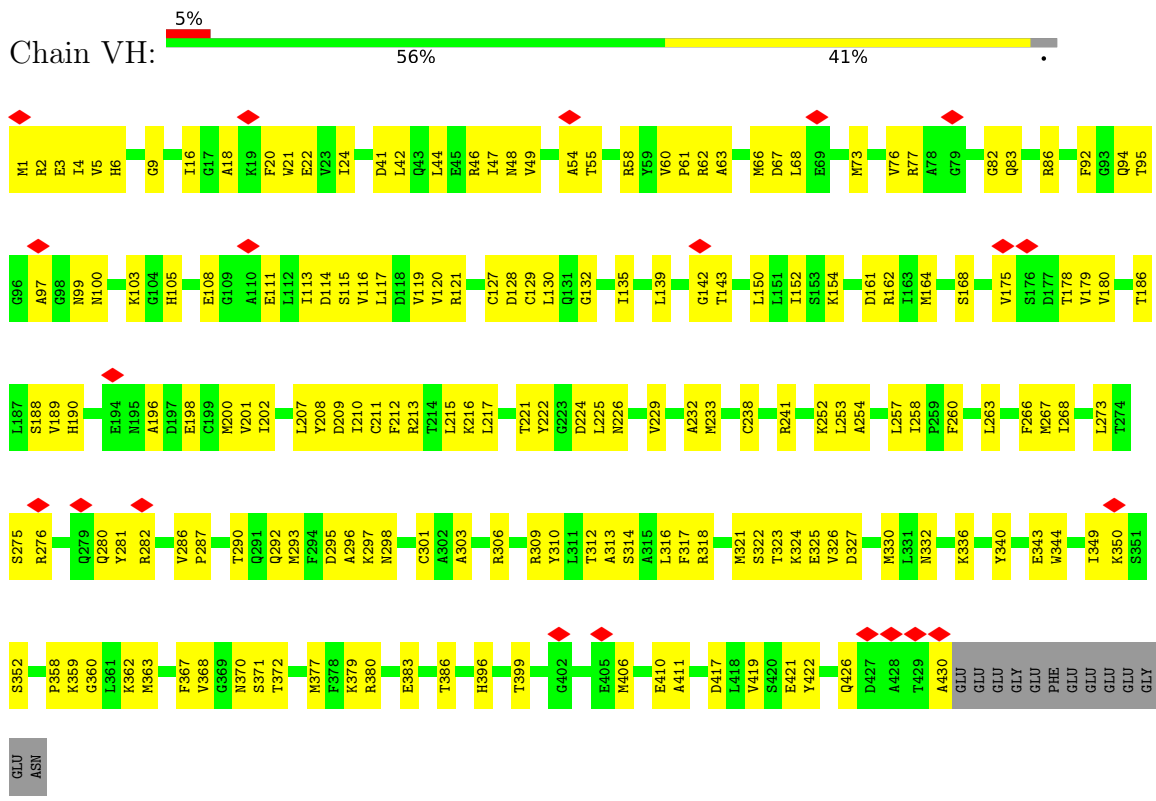
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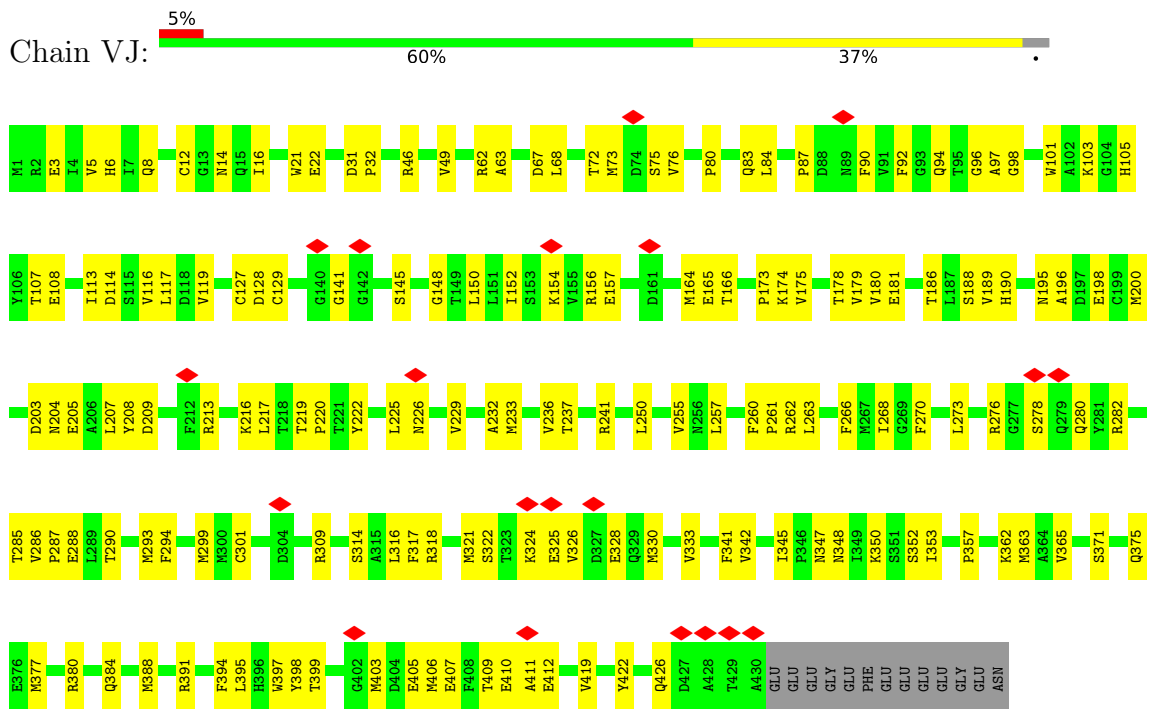
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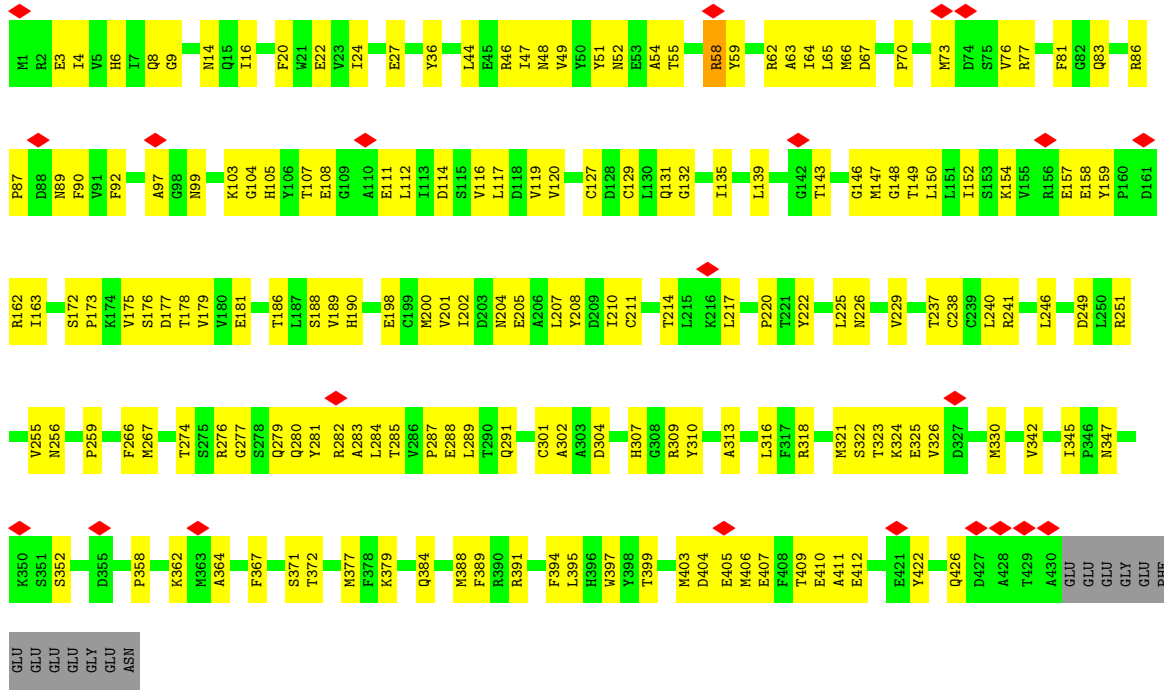


• Molecule 46: Tubulin beta chain

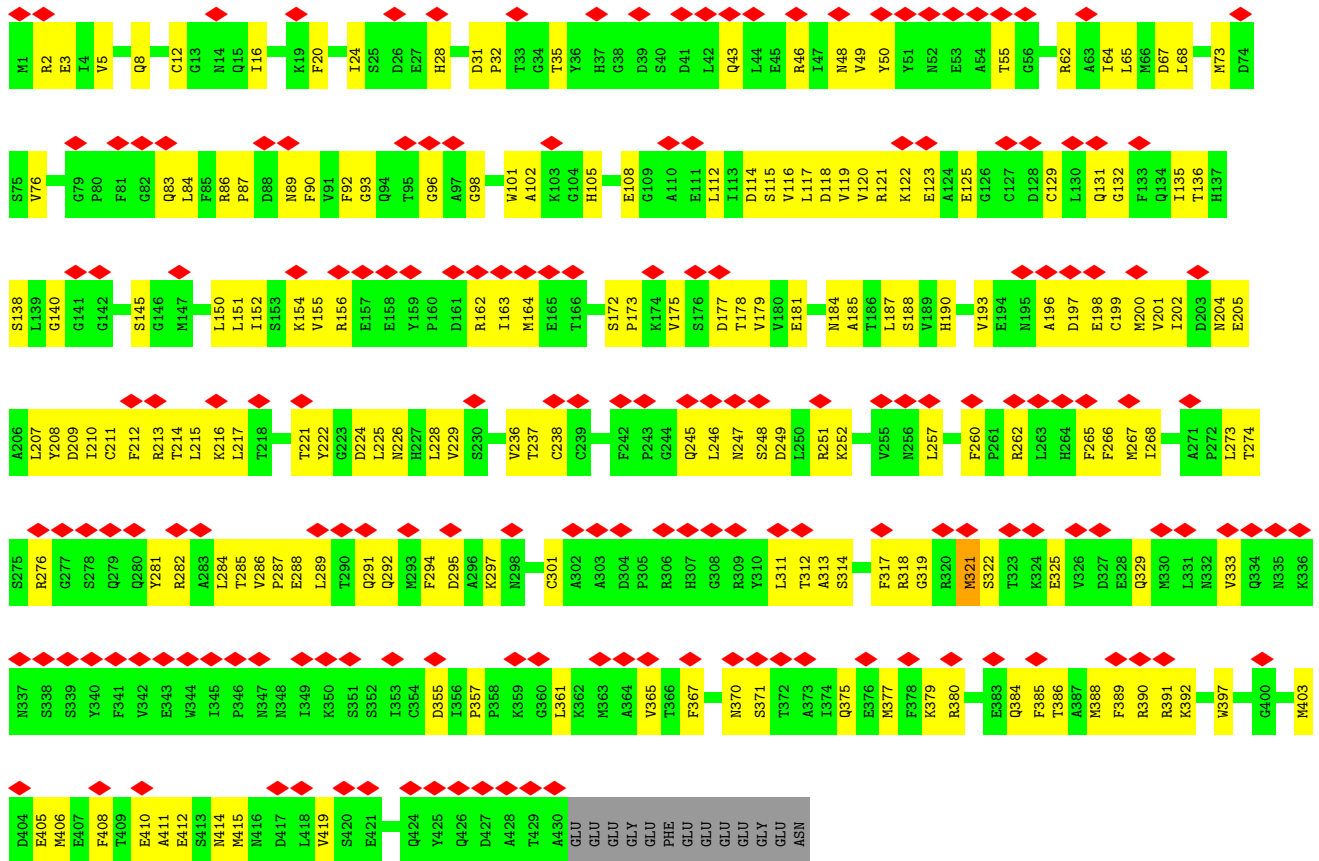


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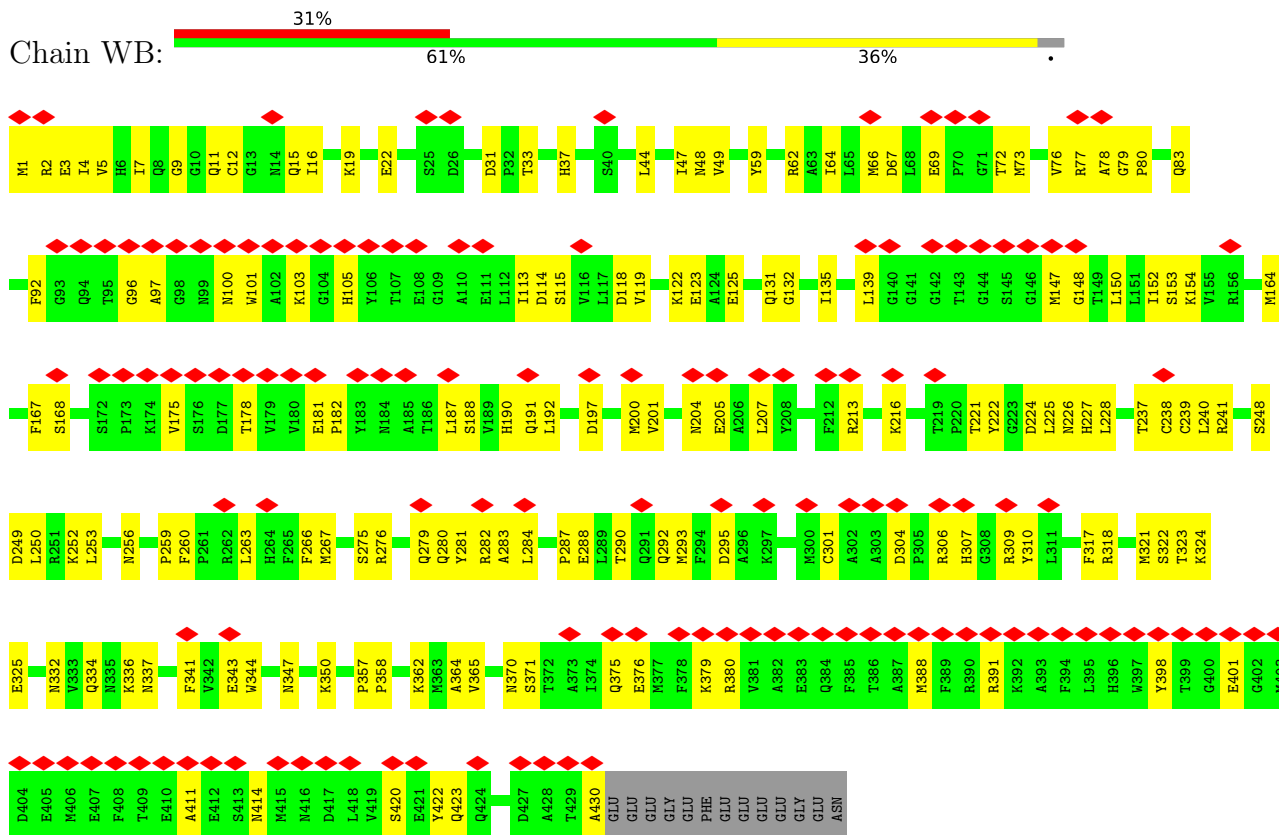




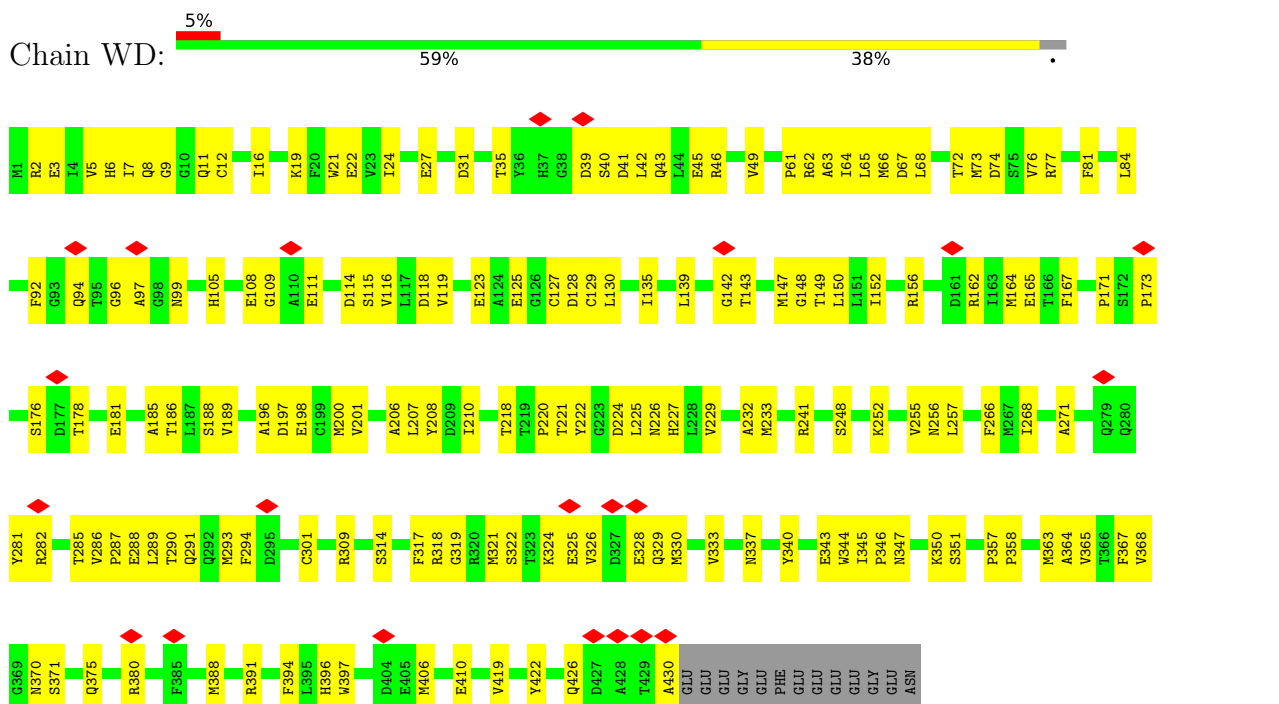
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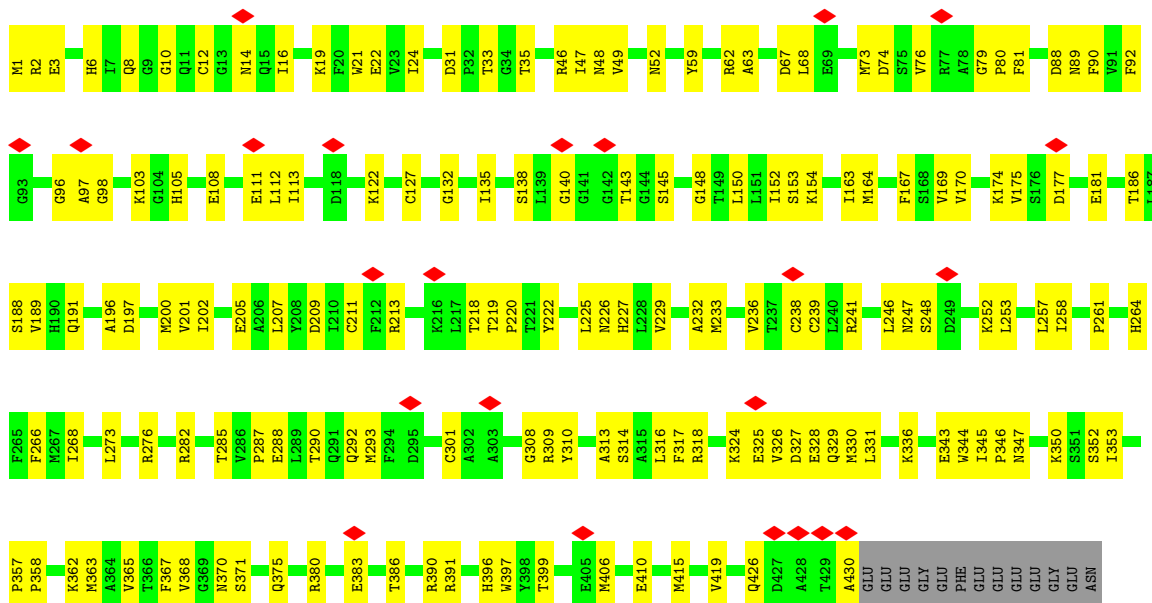


• Molecule 46: Tubulin beta chain

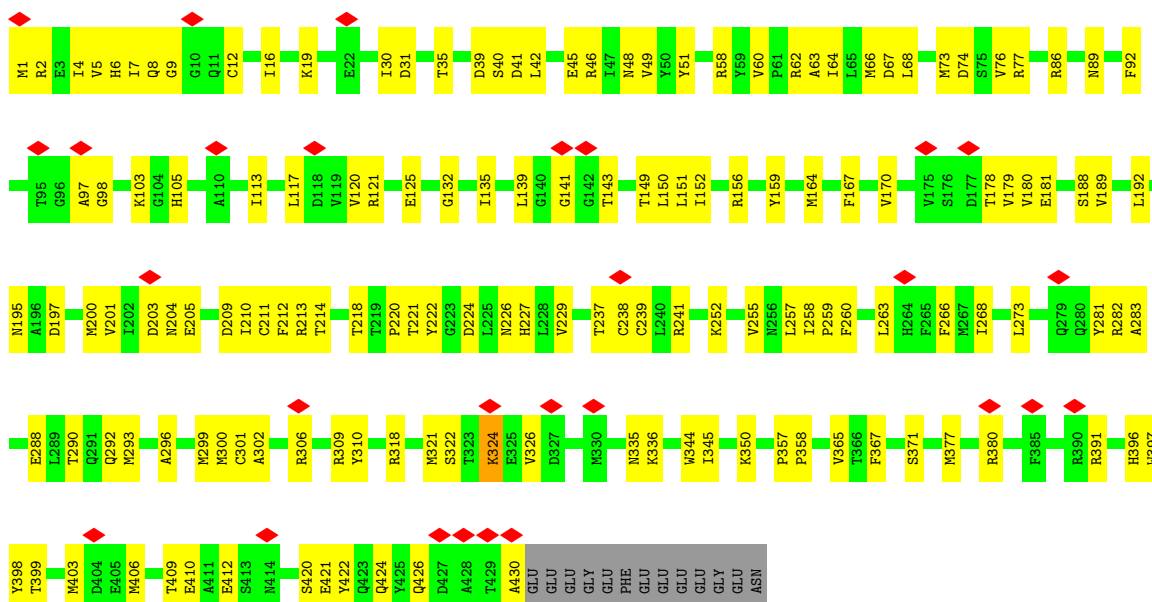


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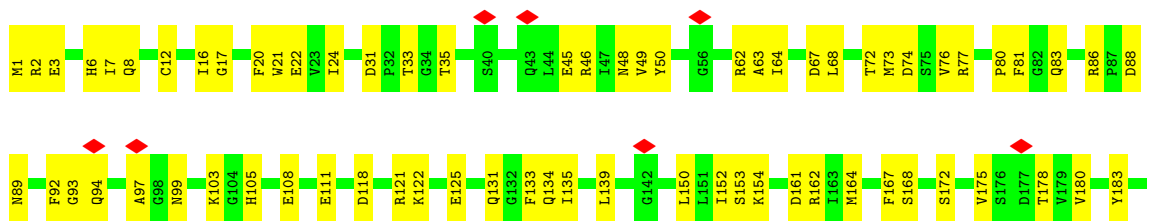


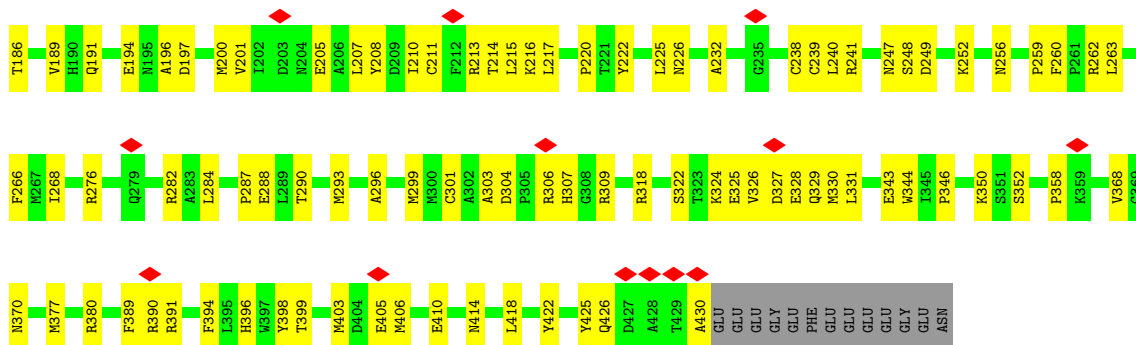


• Molecule 46: Tubulin beta chain

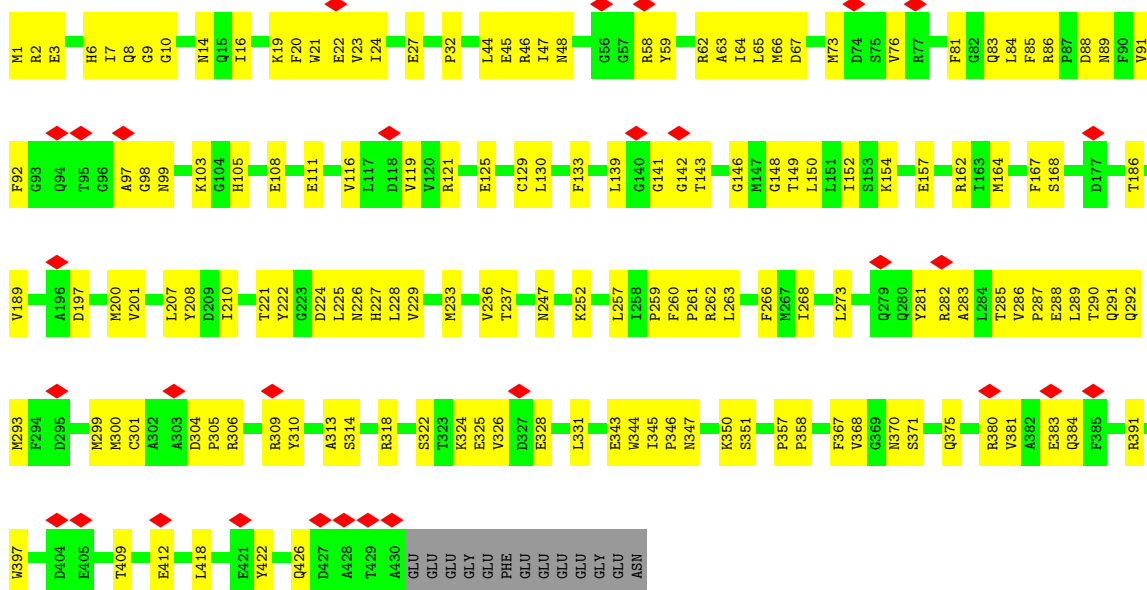


• Molecule 46: Tubulin beta chain

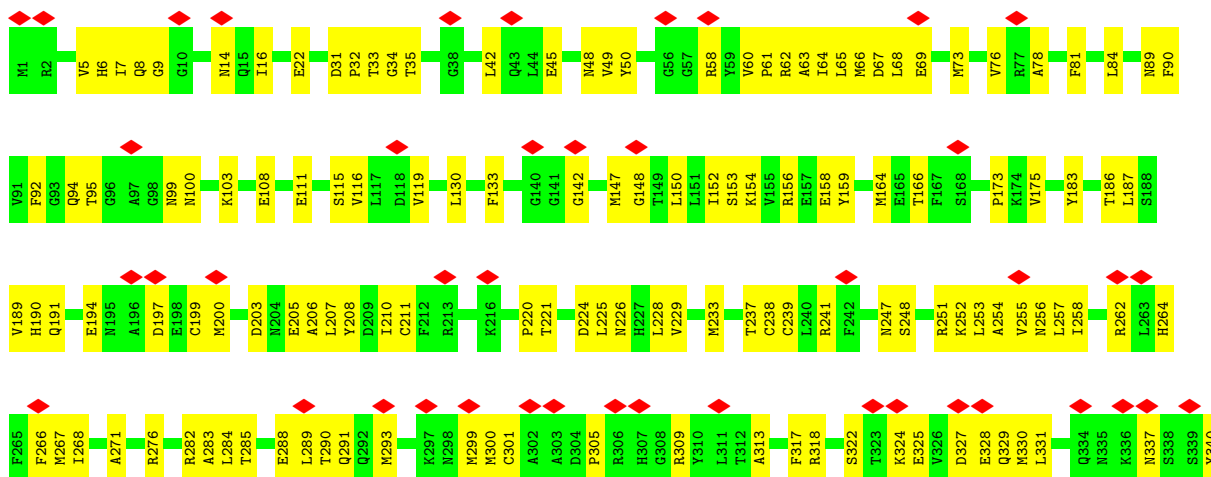




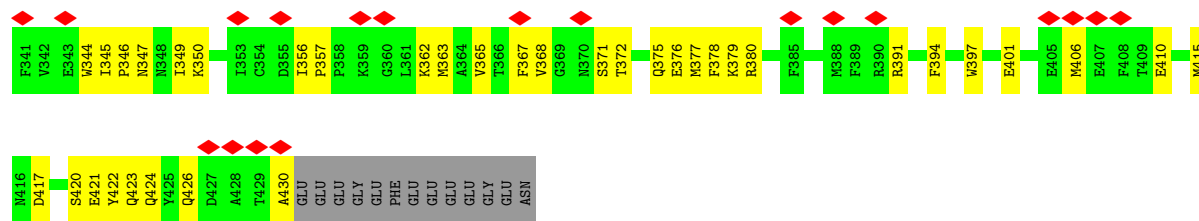
• Molecule 46: Tubulin beta chain



• Molecule 46: Tubulin beta chain







## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	148365	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	45	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	2.356	Depositor
Minimum map value	-0.004	Depositor
Average map value	0.011	Depositor
Map value standard deviation	0.079	Depositor
Recommended contour level	0.15	Depositor
Map size ( $\text{\AA}$ )	701.44, 701.44, 701.44	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.37, 1.37, 1.37	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: GDP, GTP, MG

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	0A	0.29	0/1272	0.61	2/1730 (0.1%)
1	1A	0.29	0/1272	0.56	0/1730
1	2A	0.30	0/1272	0.62	1/1730 (0.1%)
1	3A	0.28	0/1272	0.56	0/1730
2	0B	0.28	0/2674	0.60	1/3619 (0.0%)
3	0C	0.29	0/764	0.69	1/1029 (0.1%)
3	1C	0.28	0/764	0.79	2/1029 (0.2%)
4	0D	0.28	0/1653	0.62	0/2238
4	1D	0.30	0/1653	0.64	1/2238 (0.0%)
4	2D	0.30	0/1653	0.67	0/2238
5	0E	0.29	0/1584	0.62	0/2133
5	1E	0.31	0/1584	0.64	1/2133 (0.0%)
5	2E	0.30	0/1584	0.63	1/2133 (0.0%)
5	3E	0.27	0/1584	0.57	0/2133
6	0F	0.31	0/1699	0.74	2/2294 (0.1%)
7	0G	0.28	0/1409	0.64	0/1895
7	1G	0.29	0/1136	0.65	0/1530
8	0H	0.35	0/1060	0.67	0/1404
8	1H	0.33	0/3741	0.68	2/4955 (0.0%)
9	0N	0.29	0/2355	0.53	0/3181
9	1N	0.28	0/3884	0.51	0/5240
9	2N	0.27	0/2355	0.52	0/3181
10	0Q	0.29	0/1583	0.63	0/2138
10	1Q	0.30	0/1583	0.63	0/2138
10	2Q	0.30	0/1583	0.61	0/2138
10	3Q	0.29	0/1583	0.61	0/2138
10	4Q	0.30	0/1583	0.62	0/2138
10	5Q	0.29	0/1583	0.61	0/2138
10	6Q	0.29	0/1583	0.63	0/2138
11	0S	0.26	0/2361	0.53	0/3199
11	1S	0.28	0/2361	0.56	0/3199
11	2S	0.29	0/2361	0.57	2/3199 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
11	3S	0.28	0/2361	0.54	0/3199
12	0T	0.28	0/2176	0.54	0/2931
12	1T	0.29	0/2379	0.55	0/3209
12	2T	0.30	0/2379	0.55	0/3209
12	3T	0.32	0/2379	0.55	0/3209
13	0U	0.27	0/4866	0.57	0/6583
13	1U	0.28	0/4866	0.57	1/6583 (0.0%)
13	2U	0.28	0/4866	0.58	0/6583
13	3U	0.27	0/4866	0.58	1/6583 (0.0%)
14	0V	0.25	0/1784	0.53	0/2393
14	1V	0.27	0/2213	0.59	2/2978 (0.1%)
14	2V	0.27	0/2213	0.58	1/2978 (0.0%)
14	3V	0.26	0/2213	0.55	0/2978
15	0X	0.35	0/946	0.70	1/1255 (0.1%)
15	1X	0.32	0/1216	0.66	2/1614 (0.1%)
15	2X	0.31	0/1216	0.63	1/1614 (0.1%)
15	3X	0.30	0/1216	0.60	1/1614 (0.1%)
15	4X	0.30	0/1216	0.61	0/1614
16	1B	0.29	0/4148	0.52	0/5587
16	2B	0.28	0/2483	0.54	0/3339
16	3B	0.28	0/2480	0.57	0/3333
17	1F	0.29	0/1119	0.71	1/1513 (0.1%)
18	1I	0.30	0/1574	0.63	0/2125
19	1J	0.29	0/3090	0.57	0/4148
20	1K	0.29	0/2454	0.56	0/3260
20	2K	0.30	0/2528	0.59	0/3351
21	1L	0.27	0/6961	0.59	2/9360 (0.0%)
21	2L	0.26	0/5243	0.57	2/7046 (0.0%)
21	3L	0.27	0/1685	0.61	0/2266
22	1M	0.29	0/3041	0.55	0/4100
22	2M	0.29	0/3041	0.54	0/4100
23	1O	0.46	1/2039 (0.0%)	0.66	4/2687 (0.1%)
23	2O	0.30	0/3185	0.62	0/4204
23	3O	0.29	0/2407	0.60	2/3180 (0.1%)
24	1P	0.31	0/3080	0.62	0/4069
24	2P	0.32	0/1649	0.65	0/2186
25	1R	0.28	0/4366	0.55	1/5904 (0.0%)
25	2R	0.28	0/4366	0.52	0/5904
25	3R	0.28	0/4366	0.54	0/5904
26	1W	0.29	0/1952	0.54	0/2606
26	2W	0.39	0/1008	0.74	1/1349 (0.1%)
27	2C	0.29	0/2511	0.56	0/3378
27	3C	0.27	0/2511	0.52	0/3378

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
27	4C	0.27	0/2511	0.53	0/3378
28	2F	0.31	0/766	0.60	1/1025 (0.1%)
29	2G	0.30	0/861	0.57	1/1146 (0.1%)
30	2H	0.26	0/507	0.58	0/672
30	3H	4.16	6/507 (1.2%)	0.71	2/672 (0.3%)
30	4H	0.26	0/507	0.56	0/672
31	2I	0.30	0/1178	0.60	0/1583
31	3I	0.29	0/729	0.69	0/975
32	3D	0.27	0/1878	0.49	0/2538
33	4F	0.28	0/1664	0.57	0/2251
34	4R	0.37	2/5205 (0.0%)	0.61	3/7042 (0.0%)
34	5R	0.28	0/5205	0.53	0/7042
34	6R	0.26	0/5205	0.49	0/7042
34	7R	0.26	0/5205	0.50	0/7042
35	4S	0.29	0/1572	0.53	0/2122
35	5S	0.28	0/1572	0.54	0/2122
36	5A	0.28	0/1299	0.63	1/1757 (0.1%)
36	5B	0.27	0/1299	0.61	1/1757 (0.1%)
36	5C	0.28	0/1299	0.59	1/1757 (0.1%)
36	5D	0.27	0/934	0.68	0/1265
37	5E	0.28	0/1603	0.59	0/2157
37	5F	0.30	0/1792	0.62	0/2415
37	5G	0.27	0/1792	0.57	0/2415
37	5H	0.27	0/1241	0.64	0/1677
39	6F	0.29	0/1170	0.55	0/1571
40	6G	0.30	0/1809	0.61	2/2426 (0.1%)
41	6H	0.28	0/1391	0.60	1/1858 (0.1%)
44	8R	0.39	0/1135	0.48	0/1581
45	AA	0.29	0/3480	0.54	1/4716 (0.0%)
45	AC	0.30	0/3480	0.55	1/4716 (0.0%)
45	AE	0.30	0/3480	0.53	0/4716
45	AG	0.29	0/3480	0.54	1/4716 (0.0%)
45	AI	0.29	0/3480	0.54	0/4716
45	AK	0.29	0/3480	0.53	0/4716
45	AM	0.28	0/3480	0.54	0/4716
45	BA	0.27	0/3435	0.53	0/4655
45	BC	0.29	0/3435	0.54	0/4655
45	BE	0.29	0/3435	0.55	0/4655
45	BG	0.29	0/3435	0.53	0/4655
45	BI	0.29	0/3435	0.54	0/4655
45	BK	0.29	0/3435	0.54	0/4655
45	BM	0.28	0/3435	0.54	0/4655
45	CA	0.26	0/3480	0.52	1/4716 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
45	CC	0.28	0/3480	0.54	0/4716
45	CE	0.30	0/3480	0.55	1/4716 (0.0%)
45	CG	0.29	0/3480	0.53	0/4716
45	CI	0.28	0/3480	0.54	0/4716
45	CK	0.28	0/3480	0.54	0/4716
45	CM	0.27	0/3480	0.53	0/4716
45	DA	0.25	0/3443	0.49	0/4666
45	DC	0.28	0/3460	0.56	1/4687 (0.0%)
45	DE	0.29	0/3443	0.53	0/4666
45	DG	0.28	0/3460	0.53	0/4687
45	DI	0.27	0/3443	0.52	0/4666
45	DK	0.28	0/3460	0.54	0/4687
45	DM	0.27	0/3443	0.53	0/4666
45	EA	0.25	0/3480	0.49	0/4716
45	EC	0.27	0/3480	0.54	0/4716
45	EE	0.27	0/3480	0.53	0/4716
45	EG	0.27	0/3480	0.51	0/4716
45	EI	0.26	0/3480	0.52	0/4716
45	EK	0.28	0/3480	0.54	0/4716
45	EM	0.28	0/3480	0.55	1/4716 (0.0%)
45	FA	0.27	0/3413	0.53	1/4625 (0.0%)
45	FC	0.29	0/3435	0.52	0/4655
45	FE	0.29	0/3447	0.52	0/4671
45	FG	0.29	0/3480	0.51	0/4716
45	FI	0.29	0/3443	0.51	0/4666
45	FK	0.27	0/3435	0.54	0/4655
45	FM	0.25	0/3413	0.50	0/4625
45	GA	0.27	0/3413	0.52	0/4625
45	GC	0.30	0/3429	0.54	0/4647
45	GE	0.31	0/3429	0.54	0/4647
45	GG	0.29	0/3429	0.51	0/4647
45	GI	0.30	0/3429	0.52	0/4647
45	GK	0.29	0/3480	0.54	1/4716 (0.0%)
45	GM	0.24	0/3413	0.49	0/4625
45	HA	0.28	0/3427	0.55	0/4644
45	HC	0.29	0/3427	0.51	0/4644
45	HE	0.30	0/3427	0.53	0/4644
45	HG	0.30	0/3427	0.52	0/4644
45	HI	0.30	0/3427	0.52	0/4644
45	HK	0.30	0/3427	0.54	0/4644
45	HM	0.25	0/3427	0.48	0/4644
45	IA	0.29	0/3435	0.55	1/4655 (0.0%)
45	IC	0.30	0/3480	0.55	0/4716

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
45	IE	0.30	0/3435	0.53	0/4655
45	IG	0.29	0/3480	0.54	0/4716
45	II	0.32	0/3480	0.54	0/4716
45	IK	0.30	0/3435	0.53	0/4655
45	IM	0.27	0/3435	0.53	0/4655
45	JA	0.29	0/3435	0.54	1/4655 (0.0%)
45	JC	0.29	0/3447	0.53	0/4671
45	JE	0.29	0/3480	0.52	0/4716
45	JG	0.29	0/3480	0.53	0/4716
45	JI	0.29	0/3476	0.53	0/4710
45	JK	0.30	0/3480	0.56	0/4716
45	JM	0.27	0/3435	0.54	0/4655
45	KA	0.27	0/3447	0.51	0/4671
45	KC	0.28	0/3443	0.53	0/4666
45	KE	0.29	0/3456	0.52	0/4682
45	KG	0.29	0/3480	0.53	0/4716
45	KI	0.30	0/3480	0.54	0/4716
45	KK	0.29	0/3480	0.54	0/4716
45	KM	0.27	0/3447	0.51	0/4671
45	LA	0.29	0/3480	0.54	0/4716
45	LC	0.28	0/3480	0.53	0/4716
45	LE	0.29	0/3471	0.53	0/4702
45	LG	0.28	0/3480	0.52	0/4716
45	LI	0.29	0/3452	0.52	0/4677
45	LK	0.29	0/3480	0.53	0/4716
45	LM	0.28	0/3480	0.52	0/4716
45	MA	0.29	0/3463	0.53	1/4692 (0.0%)
45	MC	0.30	0/3439	0.52	0/4660
45	ME	0.30	0/3443	0.53	0/4666
45	MG	0.29	0/3471	0.53	0/4703
45	MI	0.29	0/3480	0.53	0/4716
45	MK	0.30	0/3455	0.53	0/4681
45	MM	0.28	0/3463	0.52	0/4692
45	NA	0.28	0/3480	0.55	0/4716
45	NC	0.28	0/3435	0.53	0/4655
45	NE	0.28	0/3480	0.52	0/4716
45	NG	0.28	0/3435	0.51	0/4655
45	NI	0.28	0/3480	0.52	0/4716
45	NK	0.28	0/3435	0.54	0/4655
45	NM	0.27	0/3480	0.54	0/4716
45	OA	0.27	0/3439	0.54	0/4660
45	OC	0.29	0/3439	0.53	0/4660
45	OE	0.29	0/3439	0.54	0/4660

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
45	OG	0.27	0/3439	0.51	0/4660
45	OI	0.28	0/3439	0.53	0/4660
45	OK	0.28	0/3439	0.53	0/4660
45	OM	0.27	0/3439	0.55	0/4660
45	PA	0.27	0/3413	0.53	0/4625
45	PC	0.27	0/3413	0.53	0/4625
45	PE	0.28	0/3413	0.53	0/4625
45	PG	0.28	0/3413	0.53	0/4625
45	PI	0.28	0/3413	0.53	0/4625
45	PK	0.27	0/3413	0.52	0/4625
45	PM	0.28	0/3413	0.55	0/4625
45	QA	0.26	0/3427	0.53	1/4644 (0.0%)
45	QC	0.27	0/3427	0.53	0/4644
45	QE	0.27	0/3427	0.52	0/4644
45	QG	0.28	0/3427	0.55	0/4644
45	QI	0.28	0/3427	0.52	0/4644
45	QK	0.28	0/3427	0.53	0/4644
45	QM	0.26	0/3427	0.53	0/4644
45	RA	0.25	0/3427	0.50	0/4644
45	RC	0.27	0/3427	0.52	0/4644
45	RE	0.34	1/3427 (0.0%)	0.59	5/4644 (0.1%)
45	RG	0.27	0/3427	0.52	0/4644
45	RI	0.28	0/3427	0.51	0/4644
45	RK	0.28	0/3427	0.53	0/4644
45	RM	0.26	0/3427	0.53	0/4644
45	SA	0.25	0/3421	0.49	0/4636
45	SC	0.27	0/3421	0.52	0/4636
45	SE	0.28	0/3421	0.52	0/4636
45	SG	0.28	0/3421	0.53	0/4636
45	SI	0.28	0/3421	0.52	0/4636
45	SK	0.28	0/3421	0.53	0/4636
45	SM	0.26	0/3421	0.53	0/4636
45	TA	0.25	0/3421	0.48	0/4636
45	TC	0.28	0/3421	0.54	0/4636
45	TE	0.30	0/3421	0.55	0/4636
45	TG	0.27	0/3421	0.53	1/4636 (0.0%)
45	TI	0.28	0/3421	0.52	0/4636
45	TK	0.28	0/3421	0.52	0/4636
45	TM	0.28	0/3421	0.54	0/4636
45	UA	2.24	6/3427 (0.2%)	0.52	1/4644 (0.0%)
45	UC	0.27	0/3427	0.52	0/4644
45	UE	0.28	0/3427	0.54	0/4644
45	UG	0.27	0/3427	0.53	0/4644



Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
45	UI	0.28	0/3427	0.55	0/4644
45	UK	0.28	0/3427	0.53	0/4644
45	UM	0.28	0/3427	0.54	0/4644
45	VA	0.28	0/3443	0.55	1/4666 (0.0%)
45	VC	0.28	0/3480	0.53	0/4716
45	VE	0.28	0/3443	0.52	0/4666
45	VG	0.29	0/3480	0.53	0/4716
45	VI	0.28	0/3443	0.55	1/4666 (0.0%)
45	VK	0.32	1/3480 (0.0%)	0.58	2/4716 (0.0%)
45	VM	0.25	0/3443	0.49	0/4666
45	WA	0.28	0/3427	0.57	1/4644 (0.0%)
45	WC	0.29	0/3480	0.54	0/4716
45	WE	0.28	0/3427	0.53	0/4644
45	WG	0.29	0/3480	0.54	0/4716
45	WI	0.29	0/3427	0.52	0/4644
45	WK	0.29	0/3480	0.56	0/4716
45	WM	0.26	0/3427	0.53	0/4644
46	AB	0.28	0/3439	0.53	0/4655
46	AD	0.30	0/3439	0.54	0/4655
46	AF	0.30	0/3439	0.53	0/4655
46	AH	0.30	0/3439	0.54	0/4655
46	AJ	0.30	0/3439	0.53	0/4655
46	AL	0.29	0/3439	0.52	0/4655
46	AN	0.29	0/3439	0.54	0/4655
46	BB	0.25	0/3439	0.50	0/4655
46	BD	0.29	0/3439	0.54	0/4655
46	BF	0.29	0/3439	0.53	0/4655
46	BH	0.31	0/3439	0.57	0/4655
46	BJ	0.30	0/3439	0.53	0/4655
46	BL	0.30	0/3439	0.56	0/4655
46	BN	0.29	0/3439	0.56	1/4655 (0.0%)
46	CB	0.29	0/3439	0.55	0/4655
46	CD	0.29	0/3439	0.55	0/4655
46	CF	0.42	2/3439 (0.1%)	0.66	3/4655 (0.1%)
46	CH	0.28	0/3439	0.54	0/4655
46	CJ	0.28	0/3439	0.52	0/4655
46	CL	0.29	0/3439	0.55	0/4655
46	CN	0.25	0/3439	0.48	0/4655
46	DB	0.27	0/3439	0.53	0/4655
46	DD	0.28	0/3439	0.56	0/4655
46	DF	1.98	6/3439 (0.2%)	0.56	0/4655
46	DH	0.27	0/3439	0.53	0/4655
46	DJ	0.28	0/3439	0.53	0/4655

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
46	DL	0.28	0/3439	0.55	0/4655
46	DN	0.25	0/3439	0.48	0/4655
46	EB	0.26	0/3439	0.51	0/4655
46	ED	0.28	0/3439	0.55	0/4655
46	EF	0.28	0/3439	0.56	0/4655
46	EH	0.27	0/3439	0.54	0/4655
46	EJ	0.28	0/3439	0.53	0/4655
46	EL	0.29	0/3439	0.56	0/4655
46	EN	0.27	0/3439	0.54	3/4655 (0.1%)
46	FB	0.25	0/3439	0.51	0/4655
46	FD	0.30	0/3439	0.57	0/4655
46	FF	0.30	0/3439	0.54	0/4655
46	FH	0.29	0/3439	0.53	0/4655
46	FJ	0.30	0/3439	0.53	0/4655
46	FL	0.30	0/3439	0.55	0/4655
46	FN	0.26	0/3439	0.52	0/4655
46	GB	0.25	0/3439	0.51	0/4655
46	GD	0.29	0/3439	0.55	0/4655
46	GF	0.30	0/3439	0.53	0/4655
46	GH	0.33	0/3439	0.56	1/4655 (0.0%)
46	GJ	0.30	0/3439	0.53	0/4655
46	GL	0.30	0/3439	0.53	0/4655
46	GN	0.27	0/3439	0.54	0/4655
46	HB	0.25	0/3439	0.50	0/4655
46	HD	0.29	0/3439	0.53	0/4655
46	HF	0.32	0/3439	0.57	2/4655 (0.0%)
46	HH	0.30	0/3439	0.53	0/4655
46	HJ	0.31	0/3439	0.54	0/4655
46	HL	0.30	0/3439	0.53	0/4655
46	HN	0.27	0/3439	0.52	0/4655
46	IB	0.27	0/3439	0.54	1/4655 (0.0%)
46	ID	0.29	0/3439	0.53	0/4655
46	IF	0.29	0/3439	0.53	0/4655
46	IH	0.30	0/3439	0.53	0/4655
46	IJ	0.30	0/3439	0.53	0/4655
46	IL	0.29	0/3439	0.53	0/4655
46	IN	0.29	0/3439	0.56	0/4655
46	JB	0.28	0/3439	0.53	0/4655
46	JD	0.30	0/3439	0.53	0/4655
46	JF	0.30	0/3439	0.52	0/4655
46	JH	0.29	0/3439	0.53	0/4655
46	JJ	0.30	0/3439	0.54	0/4655
46	JL	0.29	0/3439	0.53	0/4655

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
46	JN	0.29	0/3439	0.55	0/4655
46	KB	0.28	0/3439	0.54	0/4655
46	KD	0.28	0/3439	0.53	0/4655
46	KF	0.29	0/3439	0.53	0/4655
46	KH	0.30	0/3439	0.53	0/4655
46	KJ	0.29	0/3439	0.56	0/4655
46	KL	0.29	0/3439	0.54	0/4655
46	KN	0.29	0/3439	0.55	0/4655
46	LB	0.27	0/3439	0.51	0/4655
46	LD	0.28	0/3439	0.53	0/4655
46	LF	0.29	0/3439	0.55	0/4655
46	LH	0.28	0/3439	0.53	0/4655
46	LJ	0.30	0/3439	0.54	0/4655
46	LL	0.30	0/3439	0.54	0/4655
46	LN	0.29	0/3439	0.54	0/4655
46	MB	0.28	0/3439	0.53	0/4655
46	MD	0.30	0/3439	0.53	0/4655
46	MF	0.30	0/3439	0.54	0/4655
46	MH	0.29	0/3439	0.54	0/4655
46	MJ	0.31	0/3439	0.55	0/4655
46	ML	0.29	0/3439	0.52	0/4655
46	MN	0.29	0/3439	0.52	0/4655
46	NB	0.27	0/3375	0.56	0/4569
46	ND	0.29	0/3439	0.57	0/4655
46	NF	0.28	0/3375	0.53	0/4569
46	NH	0.28	0/3439	0.54	0/4655
46	NJ	0.28	0/3375	0.54	0/4569
46	NL	0.28	0/3439	0.55	0/4655
46	NN	0.28	0/3375	0.54	0/4569
46	OB	0.27	0/3439	0.53	0/4655
46	OD	0.29	0/3439	0.55	0/4655
46	OF	0.27	0/3439	0.54	0/4655
46	OH	0.28	0/3439	0.53	0/4655
46	OJ	0.28	0/3439	0.53	0/4655
46	OL	0.29	0/3439	0.54	0/4655
46	ON	0.27	0/3439	0.55	0/4655
46	PB	0.25	0/3439	0.49	0/4655
46	PD	0.27	0/3439	0.55	0/4655
46	PF	0.28	0/3439	0.53	0/4655
46	PH	0.29	0/3439	0.56	0/4655
46	PJ	0.27	0/3439	0.53	0/4655
46	PL	0.28	0/3439	0.54	0/4655
46	PN	0.29	0/3439	0.59	2/4655 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
46	QB	0.27	0/3439	0.53	0/4655
46	QD	0.27	0/3439	0.53	0/4655
46	QF	0.28	0/3439	0.54	0/4655
46	QH	0.28	0/3439	0.54	0/4655
46	QJ	0.28	0/3439	0.53	0/4655
46	QL	0.28	0/3439	0.55	0/4655
46	QN	0.24	0/3439	0.49	0/4655
46	RB	0.28	0/3439	0.54	0/4655
46	RD	0.28	0/3439	0.52	0/4655
46	RF	0.29	0/3439	0.54	0/4655
46	RH	0.28	0/3439	0.54	0/4655
46	RJ	0.28	0/3439	0.54	0/4655
46	RL	0.35	1/3439 (0.0%)	0.64	4/4655 (0.1%)
46	RN	0.25	0/3439	0.48	0/4655
46	SB	0.27	0/3439	0.55	0/4655
46	SD	0.31	0/3439	0.54	0/4655
46	SF	0.29	0/3439	0.53	0/4655
46	SH	0.29	0/3439	0.54	0/4655
46	SJ	0.29	0/3439	0.54	0/4655
46	SL	0.30	0/3439	0.56	0/4655
46	SN	0.25	0/3439	0.49	0/4655
46	TB	0.27	0/3439	0.55	0/4655
46	TD	0.28	0/3439	0.54	0/4655
46	TF	0.27	0/3439	0.53	0/4655
46	TH	0.27	0/3439	0.53	0/4655
46	TJ	0.28	0/3439	0.54	0/4655
46	TL	0.28	0/3439	0.55	0/4655
46	TN	0.25	0/3439	0.49	0/4655
46	UB	0.28	0/3439	0.54	0/4655
46	UD	0.28	0/3439	0.54	0/4655
46	UF	0.28	0/3439	0.53	0/4655
46	UH	0.29	0/3439	0.54	0/4655
46	UJ	0.29	0/3439	0.56	1/4655 (0.0%)
46	UL	0.28	0/3439	0.54	0/4655
46	UN	0.27	0/3439	0.54	0/4655
46	VB	0.28	0/3439	0.55	0/4655
46	VD	0.29	0/3439	0.55	0/4655
46	VF	0.29	0/3439	0.54	0/4655
46	VH	0.28	0/3439	0.55	0/4655
46	VJ	0.28	0/3439	0.54	0/4655
46	VL	0.28	0/3439	0.56	0/4655
46	VN	0.28	0/3439	0.54	0/4655
46	WB	0.27	0/3439	0.56	0/4655

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
46	WD	0.29	0/3439	0.55	0/4655
46	WF	0.29	0/3439	0.53	0/4655
46	WH	0.28	0/3439	0.55	0/4655
46	WJ	0.29	0/3439	0.56	0/4655
46	WL	0.30	0/3439	0.55	0/4655
46	WN	0.28	0/3439	0.55	0/4655
All	All	0.33	26/1335252 (0.0%)	0.54	95/1806584 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0A	0	1
1	1A	0	1
1	2A	0	1
1	3A	0	1
2	0B	0	3
4	1D	0	1
4	2D	0	1
5	0E	0	1
5	1E	0	1
6	0F	0	4
7	0G	0	2
7	1G	0	1
10	2Q	0	1
11	0S	0	1
13	0U	0	1
13	1U	0	1
13	3U	0	1
21	1L	0	2
21	2L	0	2
23	1O	0	1
25	1R	0	1
25	2R	0	1
25	3R	0	1
31	3I	0	1
33	4F	0	1
40	6G	0	2
44	8R	0	1
45	BI	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
45	EA	0	1
45	EE	0	1
45	EI	0	1
45	EM	0	1
45	PA	0	1
45	QA	0	1
45	RM	0	1
45	TA	0	1
46	BH	0	1
46	QD	0	1
46	UF	0	1
All	All	0	48

All (26) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	UA	282	TYR	CD2-CE2	82.47	2.63	1.39
46	DF	281	TYR	CD2-CE2	66.29	2.38	1.39
45	UA	282	TYR	CD1-CE1	61.55	2.31	1.39
46	DF	281	TYR	CD1-CE1	59.73	2.29	1.39
30	3H	174	PHE	CE1-CZ	46.67	2.26	1.37
45	UA	282	TYR	CE2-CZ	43.35	1.95	1.38
45	UA	282	TYR	CE1-CZ	43.20	1.94	1.38
30	3H	174	PHE	CE2-CZ	41.87	2.17	1.37
30	3H	174	PHE	CD1-CE1	40.95	2.21	1.39
30	3H	174	PHE	CD2-CE2	40.78	2.20	1.39
46	DF	281	TYR	CE1-CZ	40.58	1.91	1.38
46	DF	281	TYR	CE2-CZ	40.40	1.91	1.38
45	UA	282	TYR	CG-CD2	39.03	1.89	1.39
45	UA	282	TYR	CG-CD1	34.32	1.83	1.39
46	DF	281	TYR	CG-CD2	31.70	1.80	1.39
46	DF	281	TYR	CG-CD1	31.60	1.80	1.39
30	3H	174	PHE	CG-CD2	27.20	1.79	1.38
30	3H	174	PHE	CG-CD1	27.06	1.79	1.38
23	1O	266	GLU	CA-C	15.89	1.94	1.52
46	CF	86	ARG	CD-NE	14.10	1.70	1.46
34	4R	147	ARG	CD-NE	13.42	1.69	1.46
46	CF	86	ARG	NE-CZ	10.39	1.46	1.33
34	4R	147	ARG	NE-CZ	9.88	1.45	1.33
45	RE	89	PRO	CG-CD	-9.63	1.18	1.50
46	RL	173	PRO	CG-CD	-8.87	1.21	1.50
45	VK	261	PRO	CG-CD	-6.52	1.29	1.50

All (95) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	4R	147	ARG	CD-NE-CZ	21.71	153.99	123.60
46	CF	86	ARG	CD-NE-CZ	21.01	153.02	123.60
17	1F	29	GLN	C-N-CD	-14.46	88.80	120.60
3	1C	44	ILE	C-N-CD	-14.05	89.69	120.60
34	4R	147	ARG	NE-CZ-NH1	12.17	126.39	120.30
46	CF	86	ARG	NE-CZ-NH1	12.04	126.32	120.30
6	0F	32	ILE	C-N-CD	-11.70	94.86	120.60
45	VK	261	PRO	CA-N-CD	-11.69	95.14	111.50
46	RL	173	PRO	N-CD-CG	-11.58	85.83	103.20
45	RE	89	PRO	CA-N-CD	-11.21	95.81	111.50
45	RE	89	PRO	N-CD-CG	-11.15	86.48	103.20
46	HF	80	PRO	CA-N-CD	-9.86	97.69	111.50
23	1O	266	GLU	O-C-N	-9.58	107.37	122.70
45	UA	282	TYR	CZ-CE2-CD2	-9.40	111.34	119.80
45	IA	261	PRO	CA-N-CD	-9.08	98.79	111.50
45	VK	261	PRO	N-CD-CG	-8.99	89.72	103.20
23	1O	266	GLU	CB-CA-C	8.85	128.09	110.40
34	4R	147	ARG	CG-CD-NE	8.41	129.46	111.80
45	EM	261	PRO	CA-N-CD	-8.17	100.07	111.50
23	1O	266	GLU	N-CA-CB	-8.05	96.11	110.60
46	EN	182	PRO	CA-N-CD	-8.03	100.26	111.50
46	RL	259	PRO	CA-N-CD	-7.74	100.67	111.50
46	RL	173	PRO	CA-N-CD	-7.56	100.91	111.50
14	1V	45	ARG	C-N-CD	-6.96	105.29	120.60
8	1H	419	LEU	CA-CB-CG	6.80	130.93	115.30
40	6G	236	LEU	CA-CB-CG	6.75	130.83	115.30
46	EN	182	PRO	N-CD-CG	-6.58	93.34	103.20
23	3O	374	ARG	CA-CB-CG	6.55	127.80	113.40
1	2A	19	ARG	C-N-CD	-6.52	106.26	120.60
3	1C	45	PRO	CA-N-CD	-6.47	102.44	111.50
46	CF	86	ARG	CG-CD-NE	6.45	125.35	111.80
14	2V	45	ARG	C-N-CD	-6.37	106.59	120.60
4	1D	221	PRO	CA-N-CD	-6.30	102.68	111.50
45	CA	268	MET	CA-CB-CG	6.28	123.98	113.30
15	1X	45	GLN	CA-CB-CG	6.16	126.96	113.40
45	GK	45	GLY	C-N-CA	6.11	136.98	121.70
45	DC	273	ALA	C-N-CD	-6.09	107.19	120.60
45	RE	89	PRO	CA-CB-CG	-6.04	92.52	104.00
2	0B	320	LEU	CA-CB-CG	6.03	129.16	115.30
46	HF	80	PRO	N-CD-CG	-6.02	94.16	103.20
6	0F	170	ARG	CA-CB-CG	5.98	126.56	113.40
21	1L	556	LEU	CA-CB-CG	5.98	129.05	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	1X	50	GLU	CA-CB-CG	5.96	126.51	113.40
15	3X	45	GLN	CA-CB-CG	5.95	126.49	113.40
14	1V	164	VAL	C-N-CD	-5.89	107.64	120.60
30	3H	174	PHE	CD1-CG-CD2	5.84	125.89	118.30
30	3H	174	PHE	CB-CG-CD2	-5.83	116.72	120.80
45	JA	298	PRO	CA-N-CD	-5.80	103.38	111.50
8	1H	115	ARG	CB-CG-CD	-5.80	96.53	111.60
45	AG	89	PRO	CA-N-CD	-5.77	103.42	111.50
41	6H	204	LEU	CA-CB-CG	5.76	128.55	115.30
3	0C	44	ILE	C-N-CD	-5.74	107.98	120.60
46	EN	32	PRO	CA-N-CD	-5.74	103.47	111.50
11	2S	28	GLU	C-N-CA	5.71	135.98	121.70
45	VA	227	LEU	CA-CB-CG	5.71	128.44	115.30
21	2L	626	ARG	CA-CB-CG	5.70	125.94	113.40
15	0X	45	GLN	CA-CB-CG	5.63	125.79	113.40
45	AC	35	GLN	C-N-CA	-5.63	107.63	121.70
46	RL	173	PRO	CA-CB-CG	-5.55	93.46	104.00
21	2L	801	SER	C-N-CA	5.53	135.52	121.70
15	2X	45	GLN	CA-CB-CG	5.49	125.48	113.40
45	WA	117	LEU	CA-CB-CG	5.44	127.81	115.30
29	2G	68	ARG	CG-CD-NE	5.41	123.16	111.80
23	3O	283	LYS	CB-CG-CD	5.40	125.65	111.60
26	2W	272	LYS	CD-CE-NZ	-5.39	99.30	111.70
5	1E	34	LEU	C-N-CA	5.38	135.16	121.70
1	0A	112	LEU	CA-CB-CG	5.37	127.65	115.30
40	6G	121	SER	C-N-CA	5.35	135.08	121.70
1	0A	90	GLN	CA-CB-CG	5.35	125.16	113.40
45	TG	152	LEU	CA-CB-CG	5.32	127.55	115.30
11	2S	35	LEU	CA-CB-CG	5.30	127.49	115.30
46	BN	80	PRO	CA-N-CD	-5.29	104.09	111.50
46	UJ	321	MET	CA-CB-CG	5.29	122.28	113.30
46	GH	321	MET	CA-CB-CG	5.27	122.27	113.30
45	RE	248	LEU	CA-CB-CG	5.27	127.43	115.30
46	PN	380	ARG	CA-CB-CG	5.26	124.97	113.40
23	1O	266	GLU	CA-C-N	5.25	128.75	117.20
45	FA	307	PRO	CA-N-CD	-5.23	104.18	111.50
45	QA	154	LEU	CA-CB-CG	5.22	127.30	115.30
21	1L	73	LEU	CA-CB-CG	5.20	127.26	115.30
28	2F	30	ALA	C-N-CA	5.20	134.70	121.70
13	3U	365	CYS	CA-CB-SG	5.18	123.32	114.00
5	2E	156	ASP	CB-CG-OD1	5.15	122.94	118.30
45	CE	39	ASP	CB-CG-OD2	5.15	122.93	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	AA	35	GLN	C-N-CA	-5.15	108.83	121.70
45	RE	173	PRO	CA-N-CD	-5.12	104.33	111.50
36	5C	37	ASP	CB-CG-OD1	5.08	122.88	118.30
13	1U	125	ASP	CB-CG-OD1	5.08	122.87	118.30
46	PN	357	PRO	CA-N-CD	-5.08	104.39	111.50
45	MA	47	ASP	CB-CG-OD1	5.06	122.85	118.30
36	5A	37	ASP	CB-CG-OD1	5.05	122.85	118.30
36	5B	37	ASP	CB-CG-OD1	5.04	122.84	118.30
45	VI	199	ASP	CB-CG-OD1	5.02	122.82	118.30
25	1R	454	ARG	CB-CG-CD	5.02	124.65	111.60
46	IB	147	MET	CA-CB-CG	5.00	121.81	113.30

There are no chirality outliers.

All (48) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0A	70	HIS	Peptide
2	0B	222	GLU	Peptide
2	0B	223	LYS	Peptide
2	0B	322	ARG	Peptide
5	0E	43	VAL	Peptide
6	0F	170	ARG	Sidechain
6	0F	182	ALA	Peptide
6	0F	7	ILE	Peptide
6	0F	88	ASN	Peptide
7	0G	120	TYR	Peptide
7	0G	45	MET	Peptide
11	0S	236	ARG	Sidechain
13	0U	526	ARG	Peptide
1	1A	38	SER	Peptide
4	1D	38	ILE	Peptide
5	1E	43	VAL	Peptide
7	1G	97	ASN	Peptide
21	1L	517	ARG	Sidechain
21	1L	579	VAL	Peptide
23	1O	271	ALA	Peptide
25	1R	42	PRO	Peptide
13	1U	488	PHE	Peptide
1	2A	19	ARG	Peptide
4	2D	38	ILE	Peptide
21	2L	578	ASN	Peptide
21	2L	892	ARG	Sidechain

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Mol	Chain	Res	Type	Group
10	2Q	72	LYS	Peptide
25	2R	42	PRO	Peptide
1	3A	38	SER	Peptide
31	3I	220	LYS	Peptide
25	3R	42	PRO	Peptide
13	3U	441	MET	Peptide
33	4F	44	ASP	Peptide
40	6G	242	ASP	Peptide
40	6G	270	THR	Peptide
44	8R	89	UNK	Peptide
46	BH	86	ARG	Sidechain
45	BI	256	GLN	Peptide
45	EA	36	MET	Peptide
45	EE	36	MET	Peptide
45	EI	36	MET	Peptide
45	EM	36	MET	Peptide
45	PA	256	GLN	Peptide
45	QA	256	GLN	Peptide
46	QD	299	MET	Peptide
45	RM	256	GLN	Peptide
45	TA	256	GLN	Peptide
46	UF	322	SER	Peptide

## 5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0A	1229	0	1156	31	0
1	1A	1229	0	1156	17	0
1	2A	1229	0	1156	25	0
1	3A	1229	0	1156	25	0
2	0B	2615	0	2539	31	0
3	0C	747	0	746	11	0
3	1C	747	0	746	17	0
4	0D	1619	0	1606	49	0
4	1D	1619	0	1606	36	0
4	2D	1619	0	1606	42	0
5	0E	1557	0	1513	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	1E	1557	0	1513	2	0
5	2E	1557	0	1513	7	0
5	3E	1557	0	1513	2	0
6	0F	1665	0	1658	24	0
7	0G	1378	0	1332	23	0
7	1G	1109	0	1072	25	0
8	0H	1046	0	1051	2	0
8	1H	3706	0	3719	37	0
9	0N	2305	0	2251	12	0
9	1N	3805	0	3734	13	0
9	2N	2305	0	2251	11	0
10	0Q	1548	0	1575	4	0
10	1Q	1548	0	1575	15	0
10	2Q	1548	0	1575	4	0
10	3Q	1548	0	1575	7	0
10	4Q	1548	0	1575	7	0
10	5Q	1548	0	1575	56	0
10	6Q	1548	0	1575	62	0
11	0S	2310	0	2349	16	0
11	1S	2310	0	2349	20	0
11	2S	2310	0	2349	14	0
11	3S	2310	0	2349	17	0
12	0T	2124	0	2067	3	0
12	1T	2321	0	2267	8	0
12	2T	2321	0	2267	16	0
12	3T	2321	0	2267	8	0
13	0U	4774	0	4750	3	0
13	1U	4774	0	4750	7	0
13	2U	4774	0	4750	7	0
13	3U	4774	0	4750	6	0
14	0V	1750	0	1740	18	0
14	1V	2168	0	2164	31	0
14	2V	2168	0	2164	33	0
14	3V	2168	0	2164	21	0
15	0X	935	0	911	13	0
15	1X	1202	0	1179	21	0
15	2X	1202	0	1179	14	0
15	3X	1202	0	1179	11	0
15	4X	1202	0	1179	56	0
16	1B	4066	0	4014	5	0
16	2B	2439	0	2418	4	0
16	3B	2437	0	2415	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
17	1F	1093	0	1080	21	0
18	1I	1546	0	1485	31	0
19	1J	3025	0	2936	74	0
20	1K	2425	0	2432	28	0
20	2K	2506	0	2541	30	0
21	1L	6842	0	6888	70	0
21	2L	5151	0	5185	51	0
21	3L	1660	0	1672	5	0
22	1M	2978	0	2957	4	0
22	2M	2978	0	2957	7	0
23	1O	2032	0	2152	71	0
23	2O	3173	0	3302	48	0
23	3O	2397	0	2483	16	0
24	1P	3060	0	3181	39	0
24	2P	1633	0	1646	15	0
25	1R	4244	0	4119	30	0
25	2R	4244	0	4119	39	0
25	3R	4244	0	4119	33	0
26	1W	1924	0	1867	20	0
26	2W	990	0	967	19	0
27	2C	2467	0	2457	16	0
27	3C	2467	0	2457	7	0
27	4C	2467	0	2457	9	0
28	2F	746	0	702	12	0
29	2G	848	0	871	5	0
30	2H	501	0	513	14	0
30	3H	501	0	513	15	0
30	4H	501	0	513	7	0
31	2I	1150	0	1150	60	0
31	3I	712	0	722	30	0
32	3D	1835	0	1817	2	0
33	4F	1618	0	1562	23	0
34	4R	5070	0	4976	97	0
34	5R	5070	0	4976	160	0
34	6R	5070	0	4976	141	0
34	7R	5070	0	4976	159	0
35	4S	1537	0	1565	90	0
35	5S	1537	0	1565	72	0
36	5A	1261	0	1230	49	0
36	5B	1261	0	1230	55	0
36	5C	1261	0	1230	50	0
36	5D	908	0	886	35	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
37	5E	1566	0	1570	74	0
37	5F	1750	0	1753	104	0
37	5G	1750	0	1753	83	0
37	5H	1210	0	1191	69	0
38	5I	515	0	109	0	0
38	5J	545	0	115	1	0
38	5K	400	0	84	0	0
39	6F	1140	0	1077	47	0
40	6G	1769	0	1772	121	0
41	6H	1362	0	1278	57	0
42	8L	1925	0	391	4	0
42	8N	1790	0	362	0	0
43	8P	1815	0	369	4	0
44	8R	2020	0	1200	23	0
45	AA	3408	0	3347	97	0
45	AC	3408	0	3347	125	0
45	AE	3408	0	3347	115	0
45	AG	3408	0	3347	93	0
45	AI	3408	0	3347	81	0
45	AK	3408	0	3347	89	0
45	AM	3408	0	3347	104	0
45	BA	3364	0	3302	131	0
45	BC	3364	0	3302	104	0
45	BE	3364	0	3302	113	0
45	BG	3364	0	3302	102	0
45	BI	3364	0	3302	101	0
45	BK	3364	0	3302	115	0
45	BM	3364	0	3302	123	0
45	CA	3408	0	3347	108	0
45	CC	3408	0	3347	134	0
45	CE	3408	0	3347	104	0
45	CG	3408	0	3347	135	0
45	CI	3408	0	3347	104	0
45	CK	3408	0	3347	107	0
45	CM	3408	0	3347	100	0
45	DA	3372	0	3305	66	0
45	DC	3389	0	3325	135	0
45	DE	3372	0	3306	116	0
45	DG	3389	0	3325	114	0
45	DI	3372	0	3306	110	0
45	DK	3389	0	3325	121	0
45	DM	3372	0	3306	130	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	EA	3408	0	3347	53	0
45	EC	3408	0	3347	161	0
45	EE	3408	0	3347	112	0
45	EG	3408	0	3347	115	0
45	EI	3408	0	3346	99	0
45	EK	3408	0	3347	104	0
45	EM	3408	0	3347	129	0
45	FA	3342	0	3289	107	0
45	FC	3364	0	3302	101	0
45	FE	3376	0	3309	83	0
45	FG	3408	0	3347	93	0
45	FI	3372	0	3306	94	0
45	FK	3364	0	3302	117	0
45	FM	3342	0	3289	55	0
45	GA	3342	0	3289	121	0
45	GC	3358	0	3297	90	0
45	GE	3358	0	3297	132	0
45	GG	3358	0	3297	111	0
45	GI	3358	0	3297	93	0
45	GK	3408	0	3347	110	0
45	GM	3342	0	3289	60	0
45	HA	3356	0	3298	101	0
45	HC	3356	0	3298	100	0
45	HE	3356	0	3298	111	0
45	HG	3356	0	3298	92	0
45	HI	3356	0	3298	103	0
45	HK	3356	0	3298	112	0
45	HM	3356	0	3298	74	0
45	IA	3364	0	3302	114	0
45	IC	3408	0	3347	114	0
45	IE	3364	0	3302	122	0
45	IG	3408	0	3347	136	0
45	II	3408	0	3347	104	0
45	IK	3364	0	3302	112	0
45	IM	3364	0	3302	128	0
45	JA	3364	0	3302	108	0
45	JC	3376	0	3309	104	0
45	JE	3408	0	3347	87	0
45	JG	3408	0	3347	109	0
45	JI	3404	0	3337	105	0
45	JK	3408	0	3347	115	0
45	JM	3364	0	3302	104	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	KA	3376	0	3309	117	0
45	KC	3372	0	3306	84	0
45	KE	3385	0	3322	108	0
45	KG	3408	0	3347	125	0
45	KI	3408	0	3347	96	0
45	KK	3408	0	3347	107	0
45	KM	3376	0	3309	126	0
45	LA	3408	0	3347	100	0
45	LC	3408	0	3347	98	0
45	LE	3400	0	3335	88	0
45	LG	3408	0	3347	95	0
45	LI	3381	0	3319	114	0
45	LK	3408	0	3347	107	0
45	LM	3408	0	3347	89	0
45	MA	3392	0	3329	104	0
45	MC	3368	0	3305	102	0
45	ME	3372	0	3306	109	0
45	MG	3400	0	3340	112	0
45	MI	3408	0	3347	100	0
45	MK	3384	0	3315	97	0
45	MM	3392	0	3329	99	0
45	NA	3408	0	3347	153	0
45	NC	3364	0	3302	109	0
45	NE	3408	0	3347	106	0
45	NG	3364	0	3302	119	0
45	NI	3408	0	3347	118	0
45	NK	3364	0	3302	129	0
45	NM	3408	0	3347	134	0
45	OA	3368	0	3305	166	0
45	OC	3368	0	3305	132	0
45	OE	3368	0	3305	133	0
45	OG	3368	0	3305	110	0
45	OI	3368	0	3305	112	0
45	OK	3368	0	3305	127	0
45	OM	3368	0	3305	112	0
45	PA	3342	0	3288	148	0
45	PC	3342	0	3289	132	0
45	PE	3342	0	3289	129	0
45	PG	3342	0	3289	140	0
45	PI	3342	0	3289	115	0
45	PK	3342	0	3289	110	0
45	PM	3342	0	3289	103	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	QA	3356	0	3298	102	0
45	QC	3356	0	3298	124	0
45	QE	3356	0	3298	116	0
45	QG	3356	0	3298	153	0
45	QI	3356	0	3298	140	0
45	QK	3356	0	3298	125	0
45	QM	3356	0	3298	115	0
45	RA	3356	0	3298	76	0
45	RC	3356	0	3298	122	0
45	RE	3356	0	3298	128	0
45	RG	3356	0	3298	144	0
45	RI	3356	0	3298	96	0
45	RK	3356	0	3298	110	0
45	RM	3356	0	3298	106	0
45	SA	3350	0	3293	56	0
45	SC	3350	0	3293	124	0
45	SE	3350	0	3293	122	0
45	SG	3350	0	3293	125	0
45	SI	3350	0	3293	110	0
45	SK	3350	0	3293	147	0
45	SM	3350	0	3293	111	0
45	TA	3350	0	3293	67	0
45	TC	3350	0	3293	149	0
45	TE	3350	0	3293	136	0
45	TG	3350	0	3293	117	0
45	TI	3350	0	3293	102	0
45	TK	3350	0	3293	116	0
45	TM	3350	0	3293	139	0
45	UA	3356	0	3298	108	0
45	UC	3356	0	3298	145	0
45	UE	3356	0	3298	130	0
45	UG	3356	0	3298	120	0
45	UI	3356	0	3298	102	0
45	UK	3356	0	3298	140	0
45	UM	3356	0	3298	135	0
45	VA	3372	0	3306	182	0
45	VC	3408	0	3347	112	0
45	VE	3372	0	3306	121	0
45	VG	3408	0	3347	156	0
45	VI	3372	0	3306	127	0
45	VK	3408	0	3347	152	0
45	VM	3372	0	3306	65	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	WA	3356	0	3297	134	0
45	WC	3408	0	3347	150	0
45	WE	3356	0	3298	120	0
45	WG	3408	0	3347	130	0
45	WI	3356	0	3298	102	0
45	WK	3408	0	3347	137	0
45	WM	3356	0	3298	89	0
46	AB	3366	0	3257	118	0
46	AD	3366	0	3257	122	0
46	AF	3366	0	3257	108	0
46	AH	3366	0	3257	105	0
46	AJ	3366	0	3257	91	0
46	AL	3366	0	3257	106	0
46	AN	3366	0	3257	119	0
46	BB	3366	0	3257	83	0
46	BD	3366	0	3257	138	0
46	BF	3366	0	3257	123	0
46	BH	3366	0	3257	142	0
46	BJ	3366	0	3257	106	0
46	BL	3366	0	3257	120	0
46	BN	3366	0	3257	160	0
46	CB	3366	0	3257	168	0
46	CD	3366	0	3257	112	0
46	CF	3366	0	3257	172	0
46	CH	3366	0	3257	111	0
46	CJ	3366	0	3257	123	0
46	CL	3366	0	3257	130	0
46	CN	3366	0	3257	91	0
46	DB	3366	0	3257	129	0
46	DD	3366	0	3257	118	0
46	DF	3366	0	3257	129	0
46	DH	3366	0	3257	114	0
46	DJ	3366	0	3257	124	0
46	DL	3366	0	3257	154	0
46	DN	3366	0	3257	63	0
46	EB	3366	0	3257	130	0
46	ED	3366	0	3257	121	0
46	EF	3366	0	3257	146	0
46	EH	3366	0	3257	128	0
46	EJ	3366	0	3257	119	0
46	EL	3366	0	3257	142	0
46	EN	3366	0	3257	102	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	FB	3366	0	3257	113	0
46	FD	3366	0	3257	132	0
46	FF	3366	0	3257	124	0
46	FH	3366	0	3257	126	0
46	FJ	3366	0	3257	113	0
46	FL	3366	0	3257	126	0
46	FN	3366	0	3257	98	0
46	GB	3366	0	3257	87	0
46	GD	3366	0	3257	126	0
46	GF	3366	0	3257	113	0
46	GH	3366	0	3257	106	0
46	GJ	3366	0	3257	101	0
46	GL	3366	0	3257	97	0
46	GN	3366	0	3257	113	0
46	HB	3366	0	3257	102	0
46	HD	3366	0	3257	121	0
46	HF	3366	0	3257	125	0
46	HH	3366	0	3257	116	0
46	HJ	3366	0	3257	105	0
46	HL	3366	0	3257	117	0
46	HN	3366	0	3257	127	0
46	IB	3366	0	3257	107	0
46	ID	3366	0	3257	118	0
46	IF	3366	0	3257	77	0
46	IH	3366	0	3257	122	0
46	IJ	3366	0	3257	123	0
46	IL	3366	0	3257	111	0
46	IN	3366	0	3257	133	0
46	JB	3366	0	3257	97	0
46	JD	3366	0	3257	77	0
46	JF	3366	0	3257	98	0
46	JH	3366	0	3257	99	0
46	JJ	3366	0	3257	106	0
46	JL	3366	0	3257	102	0
46	JN	3366	0	3257	137	0
46	KB	3366	0	3257	102	0
46	KD	3366	0	3257	90	0
46	KF	3366	0	3257	104	0
46	KH	3366	0	3257	94	0
46	KJ	3366	0	3257	105	0
46	KL	3366	0	3257	98	0
46	KN	3366	0	3257	115	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	LB	3366	0	3257	102	0
46	LD	3366	0	3257	101	0
46	LF	3366	0	3257	95	0
46	LH	3366	0	3257	100	0
46	LJ	3366	0	3257	107	0
46	LL	3366	0	3257	108	0
46	LN	3366	0	3257	96	0
46	MB	3366	0	3257	123	0
46	MD	3366	0	3257	102	0
46	MF	3366	0	3257	108	0
46	MH	3366	0	3257	90	0
46	MJ	3366	0	3257	139	0
46	ML	3366	0	3257	76	0
46	MN	3366	0	3257	101	0
46	NB	3304	0	3197	146	0
46	ND	3366	0	3257	140	0
46	NF	3304	0	3197	89	0
46	NH	3366	0	3257	130	0
46	NJ	3304	0	3197	120	0
46	NL	3366	0	3257	141	0
46	NN	3304	0	3197	113	0
46	OB	3366	0	3257	126	0
46	OD	3366	0	3257	142	0
46	OF	3366	0	3255	123	0
46	OH	3366	0	3257	101	0
46	OJ	3366	0	3257	118	0
46	OL	3366	0	3257	105	0
46	ON	3366	0	3257	150	0
46	PB	3366	0	3257	90	0
46	PD	3366	0	3255	152	0
46	PF	3366	0	3257	122	0
46	PH	3366	0	3257	122	0
46	PJ	3366	0	3257	124	0
46	PL	3366	0	3257	135	0
46	PN	3366	0	3257	158	0
46	QB	3366	0	3257	150	0
46	QD	3366	0	3257	112	0
46	QF	3366	0	3257	132	0
46	QH	3366	0	3257	142	0
46	QJ	3366	0	3257	121	0
46	QL	3366	0	3257	162	0
46	QN	3366	0	3257	63	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	RB	3366	0	3257	136	0
46	RD	3366	0	3257	129	0
46	RF	3366	0	3257	143	0
46	RH	3366	0	3257	130	0
46	RJ	3366	0	3257	125	0
46	RL	3366	0	3257	171	0
46	RN	3366	0	3257	66	0
46	SB	3366	0	3257	138	0
46	SD	3366	0	3257	139	0
46	SF	3366	0	3257	137	0
46	SH	3366	0	3257	125	0
46	SJ	3366	0	3257	134	0
46	SL	3366	0	3257	161	0
46	SN	3366	0	3257	66	0
46	TB	3366	0	3257	144	0
46	TD	3366	0	3257	130	0
46	TF	3366	0	3257	148	0
46	TH	3366	0	3257	125	0
46	TJ	3366	0	3257	135	0
46	TL	3366	0	3257	180	0
46	TN	3366	0	3257	75	0
46	UB	3366	0	3257	163	0
46	UD	3366	0	3257	132	0
46	UF	3366	0	3257	145	0
46	UH	3366	0	3257	136	0
46	UJ	3366	0	3257	161	0
46	UL	3366	0	3257	168	0
46	UN	3366	0	3257	120	0
46	VB	3366	0	3257	149	0
46	VD	3366	0	3257	147	0
46	VF	3366	0	3257	135	0
46	VH	3366	0	3257	150	0
46	VJ	3366	0	3257	129	0
46	VL	3366	0	3257	154	0
46	VN	3366	0	3257	159	0
46	WB	3366	0	3257	143	0
46	WD	3366	0	3257	144	0
46	WF	3366	0	3257	144	0
46	WH	3366	0	3257	117	0
46	WJ	3366	0	3257	126	0
46	WL	3366	0	3257	123	0
46	WN	3366	0	3257	148	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	AA	32	0	12	3	0
47	AC	32	0	12	1	0
47	AE	32	0	12	0	0
47	AG	32	0	12	1	0
47	AI	32	0	12	1	0
47	AK	32	0	12	1	0
47	AM	32	0	12	2	0
47	BA	32	0	12	1	0
47	BC	32	0	12	0	0
47	BE	32	0	12	4	0
47	BG	32	0	12	1	0
47	BI	32	0	12	3	0
47	BK	32	0	12	1	0
47	BM	32	0	12	1	0
47	CA	32	0	12	2	0
47	CC	32	0	12	1	0
47	CE	32	0	12	1	0
47	CG	32	0	12	2	0
47	CI	32	0	12	2	0
47	CK	32	0	12	1	0
47	CM	32	0	12	1	0
47	DA	32	0	12	2	0
47	DC	32	0	12	3	0
47	DE	32	0	12	2	0
47	DG	32	0	12	3	0
47	DI	32	0	12	4	0
47	DK	32	0	12	3	0
47	DM	32	0	12	2	0
47	EA	32	0	12	2	0
47	EC	32	0	12	3	0
47	EE	32	0	12	1	0
47	EG	32	0	12	2	0
47	EI	32	0	12	1	0
47	EK	32	0	12	3	0
47	EM	32	0	12	2	0
47	FA	32	0	12	3	0
47	FC	32	0	12	2	0
47	FE	32	0	12	1	0
47	FG	32	0	12	0	0
47	FI	32	0	12	0	0
47	FK	32	0	12	1	0
47	FM	32	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	GA	32	0	12	0	0
47	GC	32	0	12	1	0
47	GE	32	0	12	1	0
47	GG	32	0	12	1	0
47	GI	32	0	12	1	0
47	GK	32	0	12	1	0
47	GM	32	0	12	2	0
47	HA	32	0	12	1	0
47	HC	32	0	12	0	0
47	HE	32	0	12	2	0
47	HG	32	0	12	1	0
47	HI	32	0	12	0	0
47	HK	32	0	12	0	0
47	HM	32	0	12	1	0
47	IA	32	0	12	0	0
47	IC	32	0	12	0	0
47	IE	32	0	12	3	0
47	IG	32	0	12	2	0
47	II	32	0	12	0	0
47	IK	32	0	12	3	0
47	IM	32	0	12	3	0
47	JA	32	0	12	1	0
47	JC	32	0	12	2	0
47	JE	32	0	12	0	0
47	JG	32	0	12	2	0
47	JI	32	0	12	1	0
47	JK	32	0	12	2	0
47	JM	32	0	12	0	0
47	KA	32	0	12	2	0
47	KC	32	0	12	2	0
47	KE	32	0	12	2	0
47	KG	32	0	12	2	0
47	KI	32	0	12	1	0
47	KK	32	0	12	0	0
47	KM	32	0	12	3	0
47	LA	32	0	12	1	0
47	LC	32	0	12	3	0
47	LE	32	0	12	0	0
47	LG	32	0	12	2	0
47	LI	32	0	12	1	0
47	LK	32	0	12	2	0
47	LM	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	MA	32	0	12	0	0
47	MC	32	0	12	1	0
47	ME	32	0	12	1	0
47	MG	32	0	12	0	0
47	MI	32	0	12	0	0
47	MK	32	0	12	0	0
47	MM	32	0	12	4	0
47	NA	32	0	12	3	0
47	NC	32	0	12	0	0
47	NE	32	0	12	1	0
47	NG	32	0	12	1	0
47	NI	32	0	12	1	0
47	NK	32	0	12	1	0
47	NM	32	0	12	2	0
47	OA	32	0	12	0	0
47	OC	32	0	12	1	0
47	OF	32	0	12	4	0
47	OG	32	0	12	4	0
47	OI	32	0	12	3	0
47	OK	32	0	12	1	0
47	OM	32	0	12	1	0
47	PA	32	0	12	2	0
47	PD	32	0	12	3	0
47	PE	32	0	12	1	0
47	PG	32	0	12	3	0
47	PI	32	0	12	4	0
47	PK	32	0	12	4	0
47	PM	32	0	12	2	0
47	QA	32	0	12	2	0
47	QC	32	0	12	3	0
47	QE	32	0	12	4	0
47	QG	32	0	12	5	0
47	QI	32	0	12	3	0
47	QK	32	0	12	2	0
47	QM	32	0	12	2	0
47	RA	32	0	12	2	0
47	RC	32	0	12	3	0
47	RE	32	0	12	3	0
47	RG	32	0	12	2	0
47	RI	32	0	12	1	0
47	RK	32	0	12	3	0
47	RM	32	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	SA	32	0	12	2	0
47	SC	32	0	12	2	0
47	SE	32	0	12	2	0
47	SG	32	0	12	0	0
47	SI	32	0	12	1	0
47	SK	32	0	12	4	0
47	SM	32	0	12	1	0
47	TA	32	0	12	2	0
47	TC	32	0	12	3	0
47	TE	32	0	12	1	0
47	TG	32	0	12	1	0
47	TI	32	0	12	1	0
47	TK	32	0	12	2	0
47	TM	32	0	12	3	0
47	UA	32	0	12	2	0
47	UC	32	0	12	1	0
47	UE	32	0	12	3	0
47	UG	32	0	12	1	0
47	UI	32	0	12	3	0
47	UK	32	0	12	0	0
47	UM	32	0	12	1	0
47	VA	32	0	12	3	0
47	VC	32	0	12	3	0
47	VE	32	0	12	4	0
47	VG	32	0	12	4	0
47	VI	32	0	12	0	0
47	VK	32	0	12	1	0
47	VM	32	0	12	2	0
47	WA	32	0	12	3	0
47	WC	32	0	12	0	0
47	WE	32	0	12	1	0
47	WG	32	0	12	1	0
47	WI	32	0	12	3	0
47	WK	32	0	12	3	0
47	WM	32	0	12	1	0
48	AA	1	0	0	0	0
48	AC	1	0	0	0	0
48	AE	1	0	0	0	0
48	AG	1	0	0	0	0
48	AI	1	0	0	0	0
48	AK	1	0	0	0	0
48	AM	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	BA	1	0	0	0	0
48	BC	1	0	0	0	0
48	BE	1	0	0	0	0
48	BG	1	0	0	0	0
48	BI	1	0	0	0	0
48	BK	1	0	0	0	0
48	BM	1	0	0	0	0
48	CA	1	0	0	0	0
48	CC	1	0	0	0	0
48	CE	1	0	0	0	0
48	CG	1	0	0	0	0
48	CI	1	0	0	0	0
48	CK	1	0	0	0	0
48	CM	1	0	0	0	0
48	DA	1	0	0	0	0
48	DC	1	0	0	0	0
48	DE	1	0	0	0	0
48	DG	1	0	0	0	0
48	DI	1	0	0	0	0
48	DK	1	0	0	0	0
48	DM	1	0	0	0	0
48	EA	1	0	0	0	0
48	EC	1	0	0	0	0
48	EE	1	0	0	0	0
48	EG	1	0	0	0	0
48	EI	1	0	0	0	0
48	EK	1	0	0	0	0
48	EM	1	0	0	0	0
48	FA	1	0	0	0	0
48	FC	1	0	0	0	0
48	FE	1	0	0	0	0
48	FG	1	0	0	0	0
48	FI	1	0	0	0	0
48	FL	1	0	0	0	0
48	FM	1	0	0	0	0
48	GB	1	0	0	0	0
48	GC	1	0	0	0	0
48	GE	1	0	0	0	0
48	GG	1	0	0	0	0
48	GI	1	0	0	0	0
48	GL	1	0	0	0	0
48	GN	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	HA	1	0	0	0	0
48	HC	1	0	0	0	0
48	HE	1	0	0	0	0
48	HG	1	0	0	0	0
48	HI	1	0	0	0	0
48	HK	1	0	0	0	0
48	HM	1	0	0	0	0
48	IA	1	0	0	0	0
48	IC	1	0	0	0	0
48	IE	1	0	0	0	0
48	IG	1	0	0	0	0
48	II	1	0	0	0	0
48	IK	1	0	0	0	0
48	IM	1	0	0	0	0
48	JA	1	0	0	0	0
48	JC	1	0	0	0	0
48	JE	1	0	0	0	0
48	JG	1	0	0	0	0
48	JI	1	0	0	0	0
48	JK	1	0	0	0	0
48	JM	1	0	0	0	0
48	KA	1	0	0	0	0
48	KC	1	0	0	0	0
48	KE	1	0	0	0	0
48	KG	1	0	0	0	0
48	KI	1	0	0	0	0
48	KK	1	0	0	0	0
48	KM	1	0	0	0	0
48	LA	1	0	0	0	0
48	LC	1	0	0	0	0
48	LE	1	0	0	0	0
48	LG	1	0	0	0	0
48	LI	1	0	0	0	0
48	LK	1	0	0	0	0
48	LM	1	0	0	0	0
48	MA	1	0	0	0	0
48	MC	1	0	0	0	0
48	ME	1	0	0	0	0
48	MG	1	0	0	0	0
48	MI	1	0	0	0	0
48	MK	1	0	0	0	0
48	MM	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	NA	1	0	0	0	0
48	ND	1	0	0	0	0
48	NE	1	0	0	0	0
48	NG	1	0	0	0	0
48	NI	1	0	0	0	0
48	NK	1	0	0	0	0
48	NM	1	0	0	0	0
48	OA	1	0	0	0	0
48	OC	1	0	0	0	0
48	OE	1	0	0	0	0
48	OG	1	0	0	0	0
48	OI	1	0	0	0	0
48	OK	1	0	0	0	0
48	OM	1	0	0	0	0
48	PA	1	0	0	0	0
48	PC	1	0	0	0	0
48	PE	1	0	0	0	0
48	PG	1	0	0	0	0
48	PI	1	0	0	0	0
48	PK	1	0	0	0	0
48	PN	1	0	0	0	0
48	QA	1	0	0	0	0
48	QC	1	0	0	0	0
48	QE	1	0	0	0	0
48	QG	1	0	0	0	0
48	QI	1	0	0	0	0
48	QK	1	0	0	0	0
48	QM	1	0	0	0	0
48	RA	1	0	0	0	0
48	RC	1	0	0	0	0
48	RD	1	0	0	0	0
48	RG	1	0	0	0	0
48	RI	1	0	0	0	0
48	RK	1	0	0	0	0
48	RM	1	0	0	0	0
48	SA	1	0	0	0	0
48	SC	1	0	0	0	0
48	SE	1	0	0	0	0
48	SG	1	0	0	0	0
48	SI	1	0	0	0	0
48	SK	1	0	0	0	0
48	SM	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	TA	1	0	0	0	0
48	TB	1	0	0	0	0
48	TE	1	0	0	0	0
48	TF	1	0	0	0	0
48	TI	1	0	0	0	0
48	TK	1	0	0	0	0
48	TL	1	0	0	0	0
48	UA	1	0	0	0	0
48	UC	1	0	0	0	0
48	UE	1	0	0	0	0
48	UG	1	0	0	0	0
48	UI	1	0	0	0	0
48	UK	1	0	0	0	0
48	UM	1	0	0	0	0
48	VA	1	0	0	0	0
48	VC	1	0	0	0	0
48	VE	1	0	0	0	0
48	VG	1	0	0	0	0
48	VI	1	0	0	0	0
48	VK	1	0	0	0	0
48	VM	1	0	0	0	0
48	WA	1	0	0	0	0
48	WC	1	0	0	0	0
48	WE	1	0	0	0	0
48	WG	1	0	0	0	0
48	WI	1	0	0	0	0
48	WK	1	0	0	0	0
48	WM	1	0	0	0	0
49	AB	28	0	12	0	0
49	AD	28	0	12	0	0
49	AF	28	0	12	1	0
49	AH	28	0	12	2	0
49	AJ	28	0	12	2	0
49	AL	28	0	12	1	0
49	AN	28	0	12	1	0
49	BB	28	0	12	0	0
49	BD	28	0	12	2	0
49	BF	28	0	12	4	0
49	BH	28	0	12	2	0
49	BJ	28	0	12	2	0
49	BL	28	0	12	2	0
49	BN	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	CB	28	0	12	2	0
49	CD	28	0	12	2	0
49	CF	28	0	12	6	0
49	CH	28	0	12	1	0
49	CJ	28	0	12	4	0
49	CL	28	0	12	0	0
49	CN	28	0	12	0	0
49	DB	28	0	12	0	0
49	DD	28	0	12	2	0
49	DF	28	0	12	1	0
49	DH	28	0	12	2	0
49	DJ	28	0	12	2	0
49	DL	28	0	12	1	0
49	DN	28	0	12	1	0
49	EB	28	0	12	0	0
49	ED	28	0	12	1	0
49	EF	28	0	12	1	0
49	EH	28	0	12	4	0
49	EJ	28	0	12	0	0
49	EL	28	0	12	3	0
49	EN	28	0	12	5	0
49	FB	28	0	12	0	0
49	FD	28	0	12	0	0
49	FF	28	0	12	2	0
49	FH	28	0	12	4	0
49	FJ	28	0	12	1	0
49	FL	28	0	12	2	0
49	FN	28	0	12	1	0
49	GB	28	0	12	0	0
49	GD	28	0	12	2	0
49	GF	28	0	12	1	0
49	GH	28	0	12	0	0
49	GJ	28	0	12	1	0
49	GL	28	0	12	3	0
49	GN	28	0	12	1	0
49	HB	28	0	12	1	0
49	HD	28	0	12	1	0
49	HF	28	0	12	2	0
49	HH	28	0	12	2	0
49	HJ	28	0	12	2	0
49	HL	28	0	12	1	0
49	HN	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	IB	28	0	12	1	0
49	ID	28	0	12	0	0
49	IF	28	0	12	1	0
49	IH	28	0	12	3	0
49	IJ	28	0	12	3	0
49	IL	28	0	12	4	0
49	IN	28	0	12	3	0
49	JB	28	0	12	0	0
49	JD	28	0	12	1	0
49	JF	28	0	12	1	0
49	JH	28	0	12	1	0
49	JJ	28	0	12	2	0
49	JL	28	0	12	1	0
49	JN	28	0	12	1	0
49	KB	28	0	12	0	0
49	KD	28	0	12	0	0
49	KF	28	0	12	1	0
49	KH	28	0	12	1	0
49	KJ	28	0	12	0	0
49	KL	28	0	12	0	0
49	KN	28	0	12	0	0
49	LB	28	0	12	0	0
49	LD	28	0	12	0	0
49	LF	28	0	12	0	0
49	LH	28	0	12	0	0
49	LJ	28	0	12	2	0
49	LL	28	0	12	1	0
49	LN	28	0	12	2	0
49	MB	28	0	12	0	0
49	MD	28	0	12	0	0
49	MF	28	0	12	2	0
49	MH	28	0	12	1	0
49	MJ	28	0	12	3	0
49	ML	28	0	12	0	0
49	MN	28	0	12	0	0
49	NB	28	0	12	1	0
49	ND	28	0	12	0	0
49	NF	28	0	12	0	0
49	NH	28	0	12	0	0
49	NJ	28	0	12	1	0
49	NL	28	0	12	0	0
49	NN	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	OB	28	0	12	2	0
49	OD	28	0	12	2	0
49	OF	28	0	12	3	0
49	OH	28	0	12	0	0
49	OJ	28	0	12	2	0
49	OL	28	0	12	1	0
49	ON	28	0	12	2	0
49	PB	28	0	12	1	0
49	PD	28	0	12	0	0
49	PF	28	0	12	0	0
49	PH	28	0	12	2	0
49	PJ	28	0	12	1	0
49	PL	28	0	12	0	0
49	PN	28	0	12	3	0
49	QB	28	0	12	1	0
49	QD	28	0	12	1	0
49	QF	28	0	12	6	0
49	QH	28	0	12	1	0
49	QJ	28	0	12	3	0
49	QL	28	0	12	1	0
49	QN	28	0	12	1	0
49	RB	28	0	12	1	0
49	RD	28	0	12	0	0
49	RF	28	0	12	0	0
49	RH	28	0	12	1	0
49	RJ	28	0	12	3	0
49	RL	28	0	12	1	0
49	RN	28	0	12	1	0
49	SB	28	0	12	1	0
49	SD	28	0	12	0	0
49	SF	28	0	12	1	0
49	SH	28	0	12	0	0
49	SJ	28	0	12	1	0
49	SL	28	0	12	0	0
49	SN	28	0	12	1	0
49	TB	28	0	12	0	0
49	TD	28	0	12	1	0
49	TF	28	0	12	1	0
49	TH	28	0	12	1	0
49	TJ	28	0	12	1	0
49	TL	28	0	12	1	0
49	TN	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	UB	28	0	12	0	0
49	UD	28	0	12	2	0
49	UF	28	0	12	5	0
49	UH	28	0	12	1	0
49	UJ	28	0	12	3	0
49	UL	28	0	12	2	0
49	UN	28	0	12	1	0
49	VB	28	0	12	1	0
49	VD	28	0	12	1	0
49	VF	28	0	12	2	0
49	VH	28	0	12	2	0
49	VJ	28	0	12	4	0
49	VL	28	0	12	3	0
49	VN	28	0	12	2	0
49	WB	28	0	12	0	0
49	WD	28	0	12	3	0
49	WF	28	0	12	1	0
49	WH	28	0	12	2	0
49	WJ	28	0	12	0	0
49	WL	28	0	12	2	0
49	WN	28	0	12	0	0
All	All	1325153	0	1283777	35555	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 14.

All (35555) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:281:TYR:CD1	46:DF:281:TYR:CG	1.80	1.67
46:DF:281:TYR:CG	46:DF:281:TYR:CD2	1.80	1.65
45:UA:282:TYR:CD1	45:UA:282:TYR:CG	1.83	1.64
45:UA:282:TYR:CG	45:UA:282:TYR:CD2	1.89	1.60
46:DF:281:TYR:CE2	46:DF:281:TYR:CZ	1.91	1.57
45:UA:282:TYR:CE1	45:UA:282:TYR:CZ	1.94	1.55
46:CF:86:ARG:CD	46:CF:86:ARG:NE	1.70	1.54
46:DF:281:TYR:CZ	46:DF:281:TYR:CE1	1.91	1.54
45:UA:282:TYR:CZ	45:UA:282:TYR:CE2	1.94	1.53
46:CF:86:ARG:NE	46:DF:281:TYR:CE1	1.88	1.38
46:CF:86:ARG:NE	46:DF:281:TYR:CD1	1.93	1.33
23:1O:266:GLU:C	45:UA:282:TYR:CD2	2.03	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:86:ARG:NE	46:DF:281:TYR:CZ	1.98	1.32
23:1O:267:ALA:N	45:UA:282:TYR:CD1	2.00	1.30
23:1O:266:GLU:O	45:UA:282:TYR:CE2	1.89	1.24
46:CF:86:ARG:NE	46:DF:281:TYR:CE2	2.08	1.21
23:1O:266:GLU:CA	45:UA:282:TYR:CD2	2.23	1.21
46:DF:281:TYR:CD1	46:DF:281:TYR:CE1	2.28	1.21
23:1O:266:GLU:C	45:UA:282:TYR:CE2	2.14	1.18
45:UA:282:TYR:CD1	45:UA:282:TYR:CE1	2.31	1.18
23:1O:266:GLU:CA	45:UA:282:TYR:CE2	2.28	1.16
46:CF:86:ARG:NE	46:DF:281:TYR:CD2	2.14	1.15
46:CF:86:ARG:NE	46:DF:281:TYR:CG	2.14	1.15
46:CF:86:ARG:CD	46:DF:281:TYR:CD2	2.30	1.13
23:1O:266:GLU:C	45:UA:282:TYR:CZ	2.22	1.11
46:DF:281:TYR:CD2	46:DF:281:TYR:CE2	2.38	1.11
46:CF:86:ARG:HD3	46:DF:281:TYR:CE2	1.87	1.09
46:CH:70:PRO:O	46:CH:74:ASP:HB2	1.53	1.09
44:8R:87:UNK:O	44:8R:89:UNK:N	1.87	1.08
46:CF:86:ARG:CD	46:DF:281:TYR:CE2	2.38	1.06
23:1O:266:GLU:C	45:UA:282:TYR:CE1	2.29	1.05
23:1O:266:GLU:N	45:UA:282:TYR:CG	2.25	1.04
23:1O:266:GLU:C	45:UA:282:TYR:CG	2.29	1.04
45:GI:288:VAL:HG11	45:GI:327:ASP:HB3	1.40	1.04
45:KG:222:PRO:HD2	46:KH:324:LYS:HE2	1.36	1.03
16:3B:238:TYR:HA	45:JG:84:ARG:HH12	1.22	1.03
46:CF:86:ARG:CZ	46:DF:281:TYR:CD2	2.42	1.03
10:1Q:17:ILE:HD11	46:WD:125:GLU:HB3	1.40	1.02
23:1O:266:GLU:HA	45:UA:282:TYR:CD2	1.90	1.02
46:CF:86:ARG:CZ	46:DF:281:TYR:CE2	2.45	1.00
23:1O:266:GLU:HA	45:UA:282:TYR:CE2	1.54	1.00
23:1O:267:ALA:N	45:UA:282:TYR:CE1	2.30	1.00
23:1O:266:GLU:HB3	45:UA:282:TYR:CZ	1.95	0.99
45:GE:288:VAL:HG11	45:GE:327:ASP:HB3	1.39	0.99
46:BH:2:ARG:HB2	46:BH:131:GLN:HE22	1.26	0.98
27:2C:183:SER:HA	15:4X:54:ARG:HH22	1.29	0.98
46:RL:259:PRO:HD2	46:RL:260:PHE:H	1.29	0.98
37:5H:26:GLY:HA2	45:OK:221:ARG:HH11	1.28	0.97
23:1O:266:GLU:C	45:UA:282:TYR:CD1	2.37	0.97
35:4S:209:ARG:HH21	46:WD:119:VAL:HG13	1.28	0.97
46:KN:70:PRO:O	46:KN:74:ASP:HB2	1.65	0.96
45:GG:288:VAL:HG11	45:GG:327:ASP:HB3	1.45	0.96
46:QF:209:ASP:HA	46:QF:213:ARG:HH21	1.27	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1O:266:GLU:O	45:UA:282:TYR:CD2	2.19	0.94
19:1J:140:PHE:HE2	45:IE:369:ALA:HB1	1.30	0.94
45:VI:288:VAL:HG21	45:VI:327:ASP:HB3	1.48	0.94
46:CF:86:ARG:HD2	46:DF:281:TYR:CG	2.04	0.94
23:1O:269:GLN:H	45:UA:282:TYR:HD2	1.09	0.93
23:1O:266:GLU:CA	45:UA:282:TYR:CZ	2.51	0.93
21:1L:553:MET:O	46:BF:320:ARG:NH2	2.01	0.93
46:IN:362:LYS:HD3	46:IN:363:MET:HE2	1.50	0.93
45:LI:31:GLN:HG3	45:LI:37:PRO:HG3	1.47	0.93
20:1K:215:VAL:HG13	45:GA:370:LYS:HE3	1.47	0.93
45:FA:288:VAL:HG11	45:FA:327:ASP:HB3	1.51	0.93
45:RE:280:LYS:HZ3	45:RE:283:HIS:HB2	1.34	0.93
46:JJ:77:ARG:HH22	46:JJ:83:GLN:HG3	1.34	0.92
46:OB:86:ARG:HH12	46:PB:281:TYR:HB3	1.33	0.92
45:WI:288:VAL:HG11	45:WI:327:ASP:HB3	1.49	0.92
45:FI:329:ASN:HD21	46:FL:175:VAL:HG12	1.35	0.92
45:TC:91:GLN:HG3	45:TC:121:ARG:HD2	1.49	0.92
46:BN:318:ARG:HD2	46:BN:358:PRO:HD3	1.51	0.91
46:FL:190:HIS:HD2	46:FL:411:ALA:HA	1.34	0.91
46:LF:362:LYS:HG2	46:LF:363:MET:HG3	1.53	0.91
46:GF:290:THR:HA	46:GF:293:MET:HG2	1.53	0.91
46:IL:248:SER:HA	46:IL:252:LYS:HD3	1.53	0.91
45:WM:119:LEU:HD11	45:WM:156:ARG:HD3	1.51	0.91
11:1S:111:LYS:HZ1	46:MF:157:GLU:HG3	1.13	0.91
46:CF:86:ARG:CD	46:DF:281:TYR:CG	2.53	0.91
45:IA:288:VAL:HG11	45:IA:327:ASP:HB3	1.53	0.90
26:1W:189:ARG:HH12	45:LA:45:GLY:H	1.17	0.90
45:CK:352:LYS:HZ1	46:CL:178:THR:HA	1.37	0.90
45:IA:261:PRO:HD2	45:IA:262:TYR:H	1.33	0.90
46:QH:74:ASP:HA	46:QH:77:ARG:HE	1.36	0.90
41:6H:176:ASN:O	41:6H:180:ASN:HB2	1.71	0.90
45:PG:352:LYS:HZ3	46:PJ:179:VAL:H	1.16	0.90
46:UL:178:THR:HB	46:UL:181:GLU:HG3	1.54	0.90
46:CF:86:ARG:NH1	46:DF:281:TYR:CD2	2.40	0.89
45:UM:288:VAL:HG21	45:UM:327:ASP:HB3	1.55	0.89
46:QJ:321:MET:SD	45:QK:221:ARG:NH2	2.45	0.89
45:WA:288:VAL:HG21	45:WA:327:ASP:HB3	1.52	0.89
6:0F:70:VAL:HG23	46:ED:362:LYS:HZ2	1.34	0.89
23:1O:266:GLU:CA	45:UA:282:TYR:CG	2.54	0.89
45:FG:288:VAL:HG11	45:FG:327:ASP:HB3	1.53	0.89
46:DL:285:THR:HG22	46:DL:287:PRO:HD2	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WC:329:ASN:HD21	46:WF:175:VAL:HG12	1.38	0.89
46:QD:267:MET:HE3	46:QD:301:CYS:HB2	1.55	0.89
45:QG:352:LYS:HZ2	46:QH:179:VAL:H	1.18	0.89
23:1O:267:ALA:N	45:UA:282:TYR:CG	2.39	0.89
45:UM:254:GLU:HG2	46:UN:98:GLY:HA2	1.51	0.89
23:1O:266:GLU:CA	45:UA:282:TYR:CD1	2.56	0.89
46:CF:86:ARG:CZ	46:DF:281:TYR:CG	2.56	0.89
45:WC:178:SER:OG	46:WD:347:ASN:ND2	2.06	0.89
46:WB:332:ASN:OD1	46:WB:336:LYS:NZ	2.06	0.88
45:BK:326:LYS:HG3	46:BN:220:PRO:HD2	1.55	0.88
46:CJ:324:LYS:HZ1	45:CK:221:ARG:HA	1.37	0.88
46:RL:376:GLU:HB3	46:RL:380:ARG:HH12	1.37	0.88
45:DI:121:ARG:HH21	45:DI:124:LYS:HE2	1.38	0.88
46:CL:200:MET:HG2	46:CL:266:PHE:HB2	1.56	0.88
46:DB:347:ASN:ND2	45:DC:178:SER:OG	2.07	0.88
46:JD:406:MET:SD	46:ND:306:ARG:NH1	2.46	0.88
45:OM:397:LEU:HD11	46:ON:346:PRO:HD3	1.55	0.88
45:RG:352:LYS:HZ1	46:RH:179:VAL:H	1.19	0.88
46:SB:55:THR:HG23	46:TB:283:ALA:HA	1.55	0.88
46:VD:299:MET:HG3	46:VD:301:CYS:H	1.39	0.88
45:GI:210:TYR:HH	46:GJ:323:THR:HG1	1.15	0.88
46:RL:324:LYS:HG3	45:RM:210:TYR:HE1	1.38	0.88
11:0S:103:LYS:HE3	46:MB:261:PRO:HB3	1.55	0.87
45:HI:288:VAL:HG11	45:HI:327:ASP:HB3	1.54	0.87
45:PA:288:VAL:HG11	45:PA:327:ASP:HB3	1.54	0.87
45:QK:352:LYS:HZ1	46:QL:179:VAL:H	1.19	0.87
37:5H:121:GLU:OE1	45:OM:370:LYS:NZ	2.07	0.87
45:EM:261:PRO:HD2	45:EM:262:TYR:H	1.37	0.87
46:CF:86:ARG:CZ	46:DF:281:TYR:CZ	2.58	0.87
45:IE:258:ASN:HD22	45:IE:352:LYS:HD2	1.40	0.87
23:1O:266:GLU:CB	45:UA:282:TYR:CZ	2.58	0.87
46:AN:173:PRO:HG2	46:AN:380:ARG:HE	1.40	0.87
45:FK:90:GLU:HG3	45:FK:121:ARG:HH12	1.39	0.86
45:PI:288:VAL:HG21	45:PI:327:ASP:HB3	1.57	0.86
45:TC:211:ASP:HB3	45:TC:215:ARG:HH21	1.40	0.86
40:6G:93:LYS:HZ1	45:UK:114:ILE:HG13	1.40	0.86
46:CF:86:ARG:HD2	46:DF:281:TYR:CD2	2.10	0.86
46:DJ:325:GLU:H	45:DK:221:ARG:HH12	1.19	0.86
46:ED:323:THR:HG1	45:EE:210:TYR:HH	1.23	0.86
45:KA:286:LEU:HD21	45:KA:371:VAL:HG13	1.57	0.86
46:TJ:299:MET:HG3	46:TJ:301:CYS:H	1.39	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UJ:321:MET:HA	45:UK:221:ARG:HH22	1.38	0.86
46:VF:226:ASN:HD21	49:VF:501:GDP:HN1	1.22	0.86
1:0A:129:PRO:HD3	46:AB:362:LYS:HD2	1.55	0.86
45:GA:288:VAL:HG11	45:GA:327:ASP:HB3	1.55	0.86
46:NL:178:THR:HG22	46:NL:180:VAL:H	1.38	0.86
45:UA:282:TYR:CD2	45:UA:282:TYR:CE2	2.63	0.86
46:VB:132:GLY:HA3	46:VB:163:ILE:O	1.75	0.86
23:1O:266:GLU:CA	45:UA:282:TYR:CE1	2.59	0.86
46:CB:324:LYS:HE2	45:CC:222:PRO:HD2	1.58	0.86
46:NB:118:ASP:OD1	46:NB:122:LYS:NZ	2.09	0.86
46:UL:132:GLY:HA3	46:UL:163:ILE:O	1.74	0.86
46:HN:248:SER:HA	46:HN:252:LYS:HD3	1.55	0.86
45:LC:221:ARG:HH22	46:LD:321:MET:HA	1.39	0.86
45:NE:288:VAL:HG21	45:NE:327:ASP:HB3	1.58	0.86
46:OB:237:THR:HG23	46:OB:241:ARG:HH12	1.41	0.86
46:PD:248:SER:HA	46:PD:252:LYS:HD3	1.57	0.86
19:1J:119:LEU:HA	45:IE:221:ARG:HD2	1.56	0.86
45:OE:221:ARG:NH1	46:OF:325:GLU:OE1	2.07	0.86
45:WM:177:VAL:HG22	46:WN:331:LEU:HD11	1.57	0.86
4:2D:54:PHE:HA	45:EK:221:ARG:HH12	1.38	0.86
46:IL:200:MET:HG2	46:IL:266:PHE:HB2	1.58	0.86
45:AK:326:LYS:HE3	46:AN:220:PRO:HG2	1.56	0.86
45:GG:258:ASN:HD22	45:GG:352:LYS:HD2	1.38	0.85
46:NB:191:GLN:O	46:NB:195:ASN:ND2	2.09	0.85
46:OB:319:GLY:HA2	46:OB:357:PRO:HG3	1.57	0.85
45:BA:90:GLU:OE1	45:CA:280:LYS:NZ	2.09	0.85
7:0G:19:ILE:HD12	46:IL:48:ASN:HD22	1.41	0.85
46:MJ:7:ILE:HG22	46:MJ:64:ILE:HB	1.57	0.85
46:SB:15:GLN:OE1	46:SB:19:LYS:NZ	2.07	0.85
45:NA:349:THR:HG1	46:ND:176:SER:HG	1.24	0.85
46:RL:267:MET:HB2	46:RL:299:MET:HE1	1.59	0.85
46:TD:46:ARG:NH2	45:TE:76:ASP:OD2	2.08	0.85
46:CB:164:MET:HB3	46:CB:197:ASP:H	1.42	0.85
46:IJ:86:ARG:HH21	45:JG:284:GLU:HG2	1.42	0.85
45:MC:326:LYS:HD3	46:MF:220:PRO:HG2	1.58	0.85
45:VA:121:ARG:HH21	45:VA:124:LYS:HD2	1.42	0.85
45:QG:319:TYR:HB3	45:QG:323:VAL:HG11	1.56	0.85
45:JK:292:THR:HG21	45:JK:331:SER:HB2	1.58	0.85
31:2I:134:LYS:HZ3	46:GD:328:GLU:HG3	1.36	0.85
46:BB:273:LEU:H	46:BB:292:GLN:HE22	1.25	0.85
46:JD:8:GLN:HE21	46:JD:65:LEU:HD22	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UA:288:VAL:HG11	45:UA:327:ASP:HB3	1.58	0.85
45:CE:259:LEU:HB3	45:CE:268:MET:HE1	1.59	0.85
45:LA:123:ARG:HH22	45:LA:161:TYR:HE2	1.24	0.84
46:QH:2:ARG:HH12	45:QI:97:GLU:HA	1.40	0.84
45:WC:324:VAL:HG11	45:WC:326:LYS:HE2	1.58	0.84
46:CF:86:ARG:CZ	46:DF:281:TYR:CD1	2.61	0.84
45:PK:288:VAL:HG21	45:PK:327:ASP:HB3	1.59	0.84
45:TM:301:MET:HG3	45:TM:303:ALA:H	1.42	0.84
21:1L:781:MET:SD	46:BD:320:ARG:NH1	2.50	0.84
45:BG:123:ARG:NH1	45:BG:127:ASP:OD1	2.10	0.84
46:HJ:226:ASN:HD21	49:HJ:501:GDP:HN1	1.21	0.84
45:RM:69:ASP:HB3	45:RM:75:ILE:HD11	1.58	0.84
46:UJ:350:LYS:HZ3	45:UK:181:VAL:H	1.23	0.84
45:IG:36:MET:HG3	45:IG:37:PRO:HD2	1.57	0.84
46:UJ:226:ASN:HD21	49:UJ:501:GDP:HN1	1.21	0.84
14:2V:86:ARG:NH2	46:LF:190:HIS:O	2.10	0.84
45:BC:222:PRO:HD2	46:BD:324:LYS:HE3	1.58	0.84
45:OA:55:GLU:HG3	45:OA:57:GLY:H	1.42	0.84
46:OF:58:ARG:NH1	46:OF:59:TYR:O	2.10	0.84
45:SE:75:ILE:HD11	45:SE:92:LEU:HB3	1.58	0.84
46:WN:166:THR:OG1	46:WN:199:CYS:SG	2.35	0.84
35:4S:81:HIS:H	35:4S:86:LYS:HE2	1.42	0.84
46:EB:289:LEU:HD11	46:EB:363:MET:HB3	1.58	0.84
45:SE:280:LYS:HA	45:SE:283:HIS:HD2	1.41	0.84
46:TJ:67:ASP:O	46:TJ:92:PHE:HA	1.78	0.84
37:5F:154:TYR:HE1	46:NH:35:THR:HG23	1.43	0.84
46:NH:391:ARG:HE	46:NH:393:ALA:HB3	1.43	0.84
46:OB:226:ASN:HD21	49:OB:501:GDP:HN1	1.24	0.84
45:WC:239:THR:HG23	45:WC:243:ARG:HH12	1.43	0.84
46:AN:190:HIS:HD2	46:AN:411:ALA:HA	1.42	0.84
45:DK:69:ASP:HB3	45:DK:75:ILE:HD11	1.59	0.84
46:IB:273:LEU:H	46:IB:292:GLN:HE22	1.24	0.84
45:VE:288:VAL:HG21	45:VE:327:ASP:HB3	1.59	0.84
26:2W:189:ARG:HB2	45:KM:46:ASP:HA	1.57	0.84
45:BE:288:VAL:HG11	45:BE:327:ASP:HB3	1.57	0.84
46:PN:215:LEU:HD22	46:PN:217:LEU:HD23	1.58	0.84
45:VC:398:MET:HE1	46:VD:346:PRO:HD2	1.59	0.84
46:FD:262:ARG:NH2	46:FD:421:GLU:OE2	2.11	0.83
45:JM:406:HIS:HA	45:JM:409:VAL:HG22	1.60	0.83
45:PA:352:LYS:NZ	46:PD:178:THR:OG1	2.10	0.83
46:WF:73:MET:HA	46:WF:76:VAL:HG12	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EB:318:ARG:HB2	46:EB:364:ALA:HB3	1.59	0.83
46:FJ:242:PHE:HB3	46:FJ:356:ILE:HD13	1.60	0.83
46:SH:67:ASP:O	46:SH:92:PHE:HA	1.77	0.83
46:CN:86:ARG:HE	46:CN:87:PRO:HD2	1.42	0.83
46:EJ:318:ARG:HB3	46:EJ:357:PRO:HA	1.60	0.83
46:IB:86:ARG:HE	46:IB:87:PRO:HD2	1.41	0.83
45:VG:288:VAL:HG21	45:VG:327:ASP:HB3	1.60	0.83
26:2W:183:SER:HG	45:KM:45:GLY:N	1.74	0.83
46:BB:200:MET:HG2	46:BB:266:PHE:HB2	1.60	0.83
45:BC:288:VAL:HG11	45:BC:327:ASP:HB3	1.61	0.83
46:IH:6:HIS:O	46:IH:63:ALA:HA	1.78	0.83
45:LA:301:MET:HG3	45:LA:303:ALA:H	1.44	0.83
45:LE:259:LEU:HD21	45:LE:316:SER:HB2	1.61	0.83
45:MG:288:VAL:HG11	45:MG:327:ASP:HB3	1.58	0.83
46:RJ:324:LYS:HB2	45:RK:221:ARG:HH12	1.42	0.83
45:VG:320:ARG:HH12	45:VG:360:PRO:HA	1.41	0.83
45:CC:79:ARG:NH2	45:CC:92:LEU:O	2.11	0.83
46:CF:86:ARG:NH1	46:DF:281:TYR:CE2	2.47	0.83
46:EB:324:LYS:HD2	45:EC:210:TYR:HB3	1.61	0.83
45:IM:316:SER:HB3	45:IM:378:ILE:HB	1.59	0.83
19:1J:342:LYS:HZ3	46:IN:276:ARG:HB3	1.43	0.83
46:SB:54:ALA:HA	46:TB:283:ALA:HB2	1.60	0.83
36:5B:140:VAL:O	46:NH:320:ARG:NH2	2.11	0.83
46:AJ:242:PHE:HB3	46:AJ:356:ILE:HD13	1.59	0.83
45:BC:221:ARG:NH1	46:BD:322:SER:OG	2.12	0.83
46:UB:186:THR:HG22	46:UB:190:HIS:HE1	1.44	0.83
46:QL:273:LEU:H	46:QL:292:GLN:HE22	1.26	0.83
46:TH:166:THR:OG1	46:TH:199:CYS:SG	2.35	0.83
45:VA:74:VAL:HG23	45:VA:75:ILE:HD12	1.61	0.83
45:FC:280:LYS:HA	45:FC:283:HIS:HD2	1.42	0.83
46:ID:171:PRO:O	46:ID:380:ARG:NH2	2.11	0.83
45:AK:288:VAL:HG11	45:AK:327:ASP:HB3	1.61	0.83
45:RM:11:GLN:NE2	45:RM:71:GLU:OE2	2.10	0.83
46:UB:321:MET:HG3	45:UC:221:ARG:HH21	1.40	0.83
14:0V:86:ARG:NH2	46:LN:190:HIS:O	2.12	0.82
46:MB:299:MET:HG3	46:MB:301:CYS:H	1.44	0.82
45:NA:96:LYS:HZ2	46:NB:2:ARG:HD3	1.42	0.82
46:PL:207:LEU:HB3	46:PL:225:LEU:HD22	1.61	0.82
45:VE:2:ARG:HH21	45:VE:242:LEU:HD13	1.44	0.82
45:IA:96:LYS:NZ	46:IB:1:MET:SD	2.53	0.82
46:TJ:238:CYS:SG	46:TJ:318:ARG:NH1	2.52	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:221:ARG:NH2	46:WB:322:SER:OG	2.12	0.82
46:WL:273:LEU:H	46:WL:292:GLN:HE22	1.26	0.82
25:3R:382:TYR:HA	46:EL:276:ARG:HE	1.44	0.82
46:BD:226:ASN:HD21	49:BD:501:GDP:HN1	1.24	0.82
46:BF:87:PRO:HA	46:BF:90:PHE:HD2	1.42	0.82
45:QG:9:VAL:HG12	45:QG:68:LEU:HB2	1.61	0.82
46:TF:242:PHE:HB3	46:TF:356:ILE:HD13	1.61	0.82
46:TL:2:ARG:HE	45:TM:97:GLU:HA	1.45	0.82
2:0B:12:LEU:HD21	46:IH:48:ASN:HB3	1.59	0.82
23:1O:266:GLU:CB	45:UA:282:TYR:CE1	2.62	0.82
24:1P:144:GLN:HB3	46:TJ:80:PRO:HG3	1.62	0.82
46:SL:21:TRP:HA	46:SL:24:ILE:HG22	1.60	0.82
46:VD:73:MET:HA	46:VD:76:VAL:HG12	1.59	0.82
45:CM:338:LYS:NZ	45:CM:340:THR:OG1	2.12	0.82
46:GN:273:LEU:H	46:GN:292:GLN:HE22	1.21	0.82
46:WD:164:MET:HB3	46:WD:197:ASP:H	1.43	0.82
40:6G:186:ASN:HB3	45:VE:308:ARG:HH22	1.45	0.82
45:FA:259:LEU:HD23	45:FA:268:MET:HG2	1.61	0.82
45:NE:352:LYS:HE2	46:NH:178:THR:HA	1.59	0.82
46:UJ:319:GLY:HA2	46:UJ:357:PRO:HD3	1.62	0.82
45:BK:288:VAL:HG11	45:BK:327:ASP:HB3	1.62	0.82
45:DI:292:THR:HG21	45:DI:331:SER:HB2	1.62	0.82
45:PE:207:GLU:HA	45:PE:210:TYR:HD2	1.44	0.82
36:5B:54:ARG:NH1	36:5B:55:ALA:O	2.13	0.82
46:FL:242:PHE:HB3	46:FL:356:ILE:HD13	1.61	0.82
46:FN:273:LEU:H	46:FN:292:GLN:HE22	1.27	0.82
11:1S:42:ASN:ND2	45:WC:124:LYS:O	2.12	0.82
46:BH:248:SER:HA	46:BH:252:LYS:HE3	1.61	0.82
45:DM:301:MET:HG3	45:DM:303:ALA:H	1.44	0.82
46:FF:62:ARG:NH2	46:FF:127:CYS:SG	2.53	0.82
45:OK:222:PRO:O	46:OL:324:LYS:NZ	2.13	0.82
45:QG:69:ASP:HB3	45:QG:75:ILE:HD11	1.61	0.82
26:2W:183:SER:HB3	45:KM:46:ASP:HB2	1.59	0.82
46:GL:11:GLN:NE2	49:GL:502:GDP:O2A	2.13	0.82
46:UB:2:ARG:HB2	46:UB:131:GLN:HE21	1.44	0.82
46:CF:86:ARG:CD	46:DF:281:TYR:CZ	2.63	0.81
46:NJ:372:THR:HA	46:NJ:422:TYR:HE1	1.42	0.81
46:RJ:133:PHE:HB2	46:RJ:164:MET:HG2	1.62	0.81
45:JI:72:PRO:HD2	46:JJ:2:ARG:HH21	1.45	0.81
45:PI:326:LYS:HG2	46:PL:212:PHE:HZ	1.45	0.81
46:RF:242:PHE:HB3	46:RF:356:ILE:HD13	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WJ:215:LEU:HD22	46:WJ:217:LEU:HD23	1.61	0.81
19:1J:254:ASN:HB3	45:HI:85:GLN:HE22	1.44	0.81
45:BK:326:LYS:HE3	46:BN:220:PRO:HG2	1.61	0.81
46:CD:347:ASN:ND2	45:CE:178:SER:OG	2.13	0.81
45:DM:9:VAL:HG12	45:DM:68:LEU:HB2	1.62	0.81
46:GD:178:THR:HG22	46:GD:180:VAL:H	1.46	0.81
45:HK:55:GLU:HG3	45:HK:57:GLY:H	1.46	0.81
45:LC:40:LYS:HD3	45:LC:41:THR:N	1.96	0.81
45:PI:398:MET:HE3	46:PJ:346:PRO:HD2	1.62	0.81
46:RF:16:ILE:HD13	46:RF:136:THR:HG21	1.61	0.81
45:WA:292:THR:HG21	45:WA:331:SER:HB3	1.62	0.81
34:5R:305:CYS:SG	34:5R:307:LYS:NZ	2.53	0.81
46:ED:135:ILE:HG13	46:ED:152:ILE:HD11	1.62	0.81
46:LH:238:CYS:SG	46:LH:318:ARG:NH1	2.54	0.81
46:PD:273:LEU:H	46:PD:292:GLN:HE22	1.28	0.81
45:VA:387:VAL:HG12	45:VA:390:ARG:HH21	1.45	0.81
40:6G:201:MET:SD	46:VF:336:LYS:NZ	2.52	0.81
46:BD:1:MET:N	46:BD:48:ASN:OD1	2.14	0.81
46:DL:86:ARG:HH21	46:DL:87:PRO:HG2	1.45	0.81
46:FF:371:SER:O	46:FF:422:TYR:OH	1.99	0.81
46:HH:226:ASN:HD21	49:HH:501:GDP:HN1	1.28	0.81
46:VB:372:THR:O	46:VB:375:GLN:NE2	2.10	0.81
45:VE:31:GLN:HE22	45:VE:37:PRO:HG3	1.46	0.81
35:4S:209:ARG:NH2	46:WD:115:SER:O	2.14	0.81
34:6R:97:CYS:HB3	34:6R:180:ILE:HD13	1.61	0.81
46:NH:388:MET:HA	46:NH:391:ARG:HD3	1.62	0.81
45:UG:31:GLN:HE22	45:UG:37:PRO:HB3	1.43	0.81
46:LF:100:ASN:HB3	46:LF:103:LYS:HB2	1.62	0.81
45:NA:256:GLN:HG2	46:ND:397:TRP:HH2	1.46	0.81
46:SF:242:PHE:HB3	46:SF:356:ILE:HD13	1.60	0.81
46:VD:215:LEU:HB3	46:VD:217:LEU:HD23	1.62	0.81
45:OC:207:GLU:OE1	45:OC:304:LYS:NZ	2.12	0.81
46:RL:299:MET:HG3	46:RL:301:CYS:H	1.45	0.81
35:5S:110:ARG:HH21	35:5S:148:LYS:HD2	1.45	0.81
41:6H:261:LYS:O	41:6H:264:GLN:NE2	2.13	0.81
45:KE:55:GLU:O	45:LE:285:GLN:NE2	2.14	0.81
45:LA:90:GLU:HG2	45:LA:121:ARG:HH12	1.45	0.81
46:PN:318:ARG:HB2	46:PN:364:ALA:HB3	1.63	0.81
45:SK:2:ARG:HH21	45:SK:243:ARG:HA	1.46	0.81
21:2L:645:ASP:HB2	46:CL:362:LYS:HG2	1.62	0.81
46:JF:207:LEU:HB3	46:JF:225:LEU:HD22	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JK:55:GLU:HG3	45:JK:57:GLY:H	1.45	0.81
45:OM:288:VAL:HG11	45:OM:327:ASP:HB3	1.62	0.81
46:PF:135:ILE:HG13	46:PF:152:ILE:HD11	1.63	0.81
45:WI:31:GLN:HE22	45:WI:37:PRO:HD3	1.44	0.81
1:0A:152:LYS:NZ	34:7R:78:ILE:O	2.13	0.80
24:1P:340:ARG:HH21	45:TC:32:PRO:HD2	1.46	0.80
46:FJ:67:ASP:O	46:FJ:92:PHE:HA	1.81	0.80
45:KC:306:ASP:OD1	45:NC:282:TYR:OH	1.99	0.80
46:OL:213:ARG:O	46:OL:216:LYS:NZ	2.14	0.80
45:UI:288:VAL:HG21	45:UI:327:ASP:HB3	1.62	0.80
45:IK:288:VAL:HG21	45:IK:327:ASP:HB3	1.62	0.80
46:QL:347:ASN:ND2	45:QM:178:SER:OG	2.14	0.80
45:RG:258:ASN:HB3	45:RG:352:LYS:HD2	1.61	0.80
46:SH:6:HIS:CE1	46:SH:8:GLN:HE21	1.99	0.80
46:SL:67:ASP:O	46:SL:92:PHE:HA	1.80	0.80
46:TB:272:PRO:HD2	46:TB:361:LEU:HD21	1.63	0.80
46:AF:242:PHE:HB3	46:AF:356:ILE:HD13	1.62	0.80
46:ON:133:PHE:HB2	46:ON:164:MET:HG3	1.62	0.80
46:QJ:325:GLU:OE2	45:QK:221:ARG:NH1	2.14	0.80
46:TJ:242:PHE:HB3	46:TJ:356:ILE:HD13	1.63	0.80
46:UB:48:ASN:O	46:UB:62:ARG:NH1	2.14	0.80
46:UH:207:LEU:HB3	46:UH:225:LEU:HD22	1.63	0.80
8:1H:139:ARG:NH2	45:HI:370:LYS:O	2.14	0.80
40:6G:138:LYS:NZ	45:VG:296:PHE:O	2.13	0.80
45:BE:326:LYS:NZ	46:BH:220:PRO:HD2	1.96	0.80
46:BL:226:ASN:HD21	49:BL:501:GDP:HN1	1.27	0.80
46:BN:86:ARG:HE	46:BN:87:PRO:HD2	1.46	0.80
45:CC:88:HIS:HA	45:DC:280:LYS:HZ3	1.45	0.80
45:FK:108:TYR:HA	45:FK:112:LYS:HE3	1.63	0.80
46:GH:68:LEU:HB3	46:GH:96:GLY:HA2	1.62	0.80
45:OM:274:PRO:HG2	45:OM:371:VAL:HG21	1.63	0.80
36:5A:98:LEU:O	36:5A:108:ARG:NH1	2.14	0.80
40:6G:93:LYS:O	45:UK:96:LYS:NZ	2.15	0.80
46:CF:321:MET:HB2	45:CG:221:ARG:HH21	1.46	0.80
46:CL:67:ASP:O	46:CL:92:PHE:HA	1.82	0.80
45:EM:69:ASP:HB3	45:EM:75:ILE:HD11	1.62	0.80
46:HL:207:LEU:HB3	46:HL:225:LEU:HD22	1.61	0.80
46:JB:299:MET:HG3	46:JB:301:CYS:H	1.45	0.80
46:LB:213:ARG:HE	46:LB:297:LYS:HE2	1.46	0.80
45:QC:269:LEU:HD22	45:QC:384:ILE:HD11	1.64	0.80
45:SE:326:LYS:HD2	46:SF:220:PRO:HD2	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1O:266:GLU:N	45:UA:282:TYR:CD1	2.50	0.80
46:JB:8:GLN:HE21	46:JB:14:ASN:HA	1.45	0.80
45:RE:268:MET:HG2	45:RE:380:ASN:HB2	1.62	0.80
46:RL:324:LYS:HG3	45:RM:210:TYR:CE1	2.15	0.80
46:UN:8:GLN:NE2	46:UN:13:GLY:O	2.15	0.80
46:UN:235:GLY:HA3	46:UN:366:THR:HG21	1.63	0.80
7:0G:14:ARG:NH1	46:IL:59:TYR:OH	2.14	0.80
46:AB:135:ILE:HG13	46:AB:152:ILE:HD11	1.64	0.80
46:EF:324:LYS:HE2	45:EG:222:PRO:HD2	1.64	0.80
45:JK:253:THR:O	45:JK:256:GLN:NE2	2.14	0.80
45:MK:402:ARG:HE	45:MK:405:VAL:HG21	1.44	0.80
46:RD:200:MET:HG3	46:RD:266:PHE:HB2	1.62	0.80
45:OE:178:SER:OG	46:OF:347:ASN:ND2	2.15	0.80
46:WD:281:TYR:HB3	46:WD:282:ARG:HH21	1.45	0.80
1:1A:129:PRO:HD3	46:AF:362:LYS:HD3	1.62	0.80
10:6Q:22:LEU:HB2	10:6Q:25:TRP:HB2	1.64	0.80
46:CJ:324:LYS:HE3	45:CK:222:PRO:HD2	1.63	0.80
45:DK:258:ASN:HD21	46:DL:178:THR:HG23	1.46	0.80
45:IG:256:GLN:HB2	46:IJ:397:TRP:HH2	1.47	0.80
46:JN:376:GLU:HB3	46:JN:380:ARG:HH12	1.45	0.80
45:PK:55:GLU:HG3	45:PK:57:GLY:H	1.46	0.80
30:2H:208:ASN:HD21	45:AC:26:LEU:HD21	1.44	0.80
37:5F:134:ILE:HA	37:5F:137:VAL:HG12	1.64	0.80
40:6G:105:LYS:HZ3	45:VI:176:GLN:HG2	1.45	0.80
46:AB:73:MET:HA	46:AB:76:VAL:HG12	1.61	0.80
46:DH:213:ARG:NH2	46:DH:297:LYS:O	2.14	0.80
45:HC:292:THR:HG21	45:HC:331:SER:HB3	1.62	0.80
45:II:123:ARG:NH1	45:II:127:ASP:OD1	2.14	0.80
46:NB:256:ASN:HB3	46:NB:350:LYS:HD3	1.62	0.80
46:ND:58:ARG:HH22	46:OD:280:GLN:HG3	1.47	0.80
45:PM:120:ASP:OD1	45:PM:123:ARG:NH2	2.14	0.80
45:UC:280:LYS:HZ3	45:UC:283:HIS:HB2	1.45	0.80
46:CH:325:GLU:OE1	45:CI:221:ARG:NH1	2.15	0.79
46:IH:218:THR:HG23	46:IH:219:THR:HG23	1.62	0.79
45:NM:288:VAL:HG11	45:NM:327:ASP:HB3	1.64	0.79
46:QJ:1:MET:HG2	46:QJ:2:ARG:H	1.46	0.79
46:RD:257:LEU:HD21	46:RD:314:SER:HB2	1.64	0.79
20:1K:194:LYS:HE2	46:GD:276:ARG:HB3	1.64	0.79
45:OA:292:THR:HG21	45:OA:331:SER:HB3	1.64	0.79
46:TD:207:LEU:HB3	46:TD:225:LEU:HD22	1.62	0.79
46:MJ:102:ALA:O	46:MJ:106:TYR:HB2	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UD:178:THR:HB	46:UD:181:GLU:HG3	1.61	0.79
46:UD:321:MET:HA	45:UE:221:ARG:HH22	1.46	0.79
46:VN:193:VAL:O	46:VN:262:ARG:NH2	2.15	0.79
45:WK:398:MET:HE1	46:WL:346:PRO:HD2	1.65	0.79
46:AD:67:ASP:O	46:AD:92:PHE:HA	1.83	0.79
45:OI:288:VAL:HG11	45:OI:327:ASP:HB3	1.65	0.79
23:IO:265:PHE:O	45:UA:282:TYR:CD2	2.34	0.79
37:5G:14:ARG:HG3	37:5G:15:THR:HG23	1.64	0.79
45:JG:72:PRO:HD2	46:JH:2:ARG:HH21	1.47	0.79
47:MM:501:GTP:O1G	46:MN:252:LYS:NZ	2.15	0.79
46:PB:319:GLY:HA2	46:PB:357:PRO:HG3	1.62	0.79
21:1L:494:GLU:HG3	34:4R:218:ILE:HD13	1.62	0.79
34:4R:581:THR:OG1	34:4R:584:GLU:OE1	2.01	0.79
46:BL:174:LYS:HE2	46:BL:205:GLU:HG2	1.62	0.79
45:CG:244:PHE:HB2	45:CG:356:ASN:HD21	1.44	0.79
45:JK:326:LYS:HE2	46:JN:220:PRO:HD2	1.65	0.79
45:LK:40:LYS:HG3	45:LK:41:THR:H	1.48	0.79
46:NJ:44:LEU:HA	46:NJ:47:ILE:HD11	1.63	0.79
45:OM:222:PRO:O	46:ON:324:LYS:NZ	2.16	0.79
45:SC:326:LYS:HD3	46:SD:212:PHE:HZ	1.48	0.79
46:SJ:242:PHE:HB3	46:SJ:356:ILE:HD13	1.63	0.79
2:0B:171:MET:O	46:JJ:320:ARG:NH1	2.16	0.79
4:2D:53:ILE:O	45:EK:221:ARG:NH2	2.16	0.79
37:5E:172:ASN:HB2	37:5E:176:ASP:HB3	1.65	0.79
46:CJ:322:SER:OG	45:CK:221:ARG:NH1	2.15	0.79
45:LI:115:VAL:HG11	45:LI:152:LEU:HD22	1.63	0.79
45:LM:292:THR:HG21	45:LM:331:SER:HB3	1.64	0.79
46:ON:55:THR:HG23	46:PN:283:ALA:HA	1.64	0.79
45:SC:229:ARG:HH12	45:SC:366:GLY:HA2	1.47	0.79
37:5G:209:ARG:NH1	45:LK:431:ASP:OD2	2.16	0.79
46:BL:32:PRO:O	46:BL:83:GLN:NE2	2.15	0.79
46:BN:67:ASP:O	46:BN:92:PHE:HA	1.83	0.79
46:BN:248:SER:HA	46:BN:252:LYS:HD3	1.65	0.79
45:HC:288:VAL:HG11	45:HC:327:ASP:HB3	1.64	0.79
45:OE:294:SER:O	45:OE:300:ASN:ND2	2.16	0.79
45:QI:352:LYS:HZ3	46:QJ:179:VAL:H	1.29	0.79
15:0X:42:LYS:NZ	45:LA:56:THR:O	2.16	0.79
46:AH:283:ALA:HB2	46:MH:54:ALA:HA	1.64	0.79
46:HN:73:MET:HA	46:HN:76:VAL:HG12	1.65	0.79
46:JL:207:LEU:HB3	46:JL:225:LEU:HD22	1.63	0.79
45:NA:55:GLU:HG3	45:NA:57:GLY:H	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NE:55:GLU:HG3	45:NE:57:GLY:H	1.46	0.79
45:OA:100:ALA:O	46:OB:251:ARG:NH1	2.16	0.79
45:PK:326:LYS:NZ	46:PN:220:PRO:O	2.11	0.79
45:SC:91:GLN:HE22	45:SC:125:LEU:HD21	1.46	0.79
45:UK:55:GLU:HG3	45:UK:57:GLY:H	1.48	0.79
45:WA:222:PRO:HD2	46:WB:324:LYS:HE2	1.63	0.79
7:1G:112:LYS:NZ	45:JA:364:PRO:O	2.14	0.79
4:2D:81:ARG:NH2	46:EJ:357:PRO:O	2.16	0.79
45:IA:69:ASP:HB3	45:IA:75:ILE:HD11	1.65	0.79
45:OA:253:THR:HA	45:OA:256:GLN:HE22	1.48	0.79
45:PC:69:ASP:O	45:PC:94:SER:HA	1.83	0.79
46:RH:68:LEU:HB3	46:RH:96:GLY:HA2	1.64	0.79
45:SG:280:LYS:HA	45:SG:283:HIS:HD2	1.47	0.79
4:2D:224:ARG:NH1	34:5R:493:GLY:HA3	1.98	0.78
46:BD:248:SER:HA	46:BD:252:LYS:HD2	1.62	0.78
46:HL:350:LYS:NZ	46:HL:352:SER:OG	2.17	0.78
46:IH:6:HIS:HD2	46:IH:134:GLN:HE22	1.31	0.78
45:LA:292:THR:HG21	45:LA:331:SER:HB3	1.64	0.78
46:ML:135:ILE:HG13	46:ML:152:ILE:HD11	1.65	0.78
45:NG:88:HIS:NE2	45:OG:284:GLU:OE2	2.17	0.78
46:OH:222:TYR:O	46:OH:226:ASN:ND2	2.16	0.78
46:ON:6:HIS:HD2	46:ON:134:GLN:HE21	1.29	0.78
45:SC:75:ILE:HD11	45:SC:92:LEU:HB3	1.65	0.78
45:WC:133:GLN:NE2	45:WC:251:ASP:OD1	2.16	0.78
45:WK:288:VAL:HG21	45:WK:327:ASP:HB3	1.63	0.78
15:1X:81:ARG:HH21	46:MF:276:ARG:HB2	1.49	0.78
12:3T:224:LYS:N	45:MK:196:GLU:OE1	2.17	0.78
34:4R:90:ARG:NH2	45:AE:26:LEU:O	2.16	0.78
37:5F:199:LYS:NZ	45:LG:392:ASP:OD1	2.16	0.78
45:EM:15:GLN:NE2	47:EM:501:GTP:O6	2.17	0.78
46:HH:207:LEU:HB3	46:HH:225:LEU:HD22	1.65	0.78
35:4S:118:PHE:O	35:4S:122:GLN:NE2	2.16	0.78
46:CF:86:ARG:CZ	46:DF:281:TYR:CE1	2.66	0.78
46:FB:27:GLU:OE2	46:FB:241:ARG:NH2	2.17	0.78
45:OI:90:GLU:OE2	45:OI:121:ARG:NH1	2.16	0.78
45:PI:298:PRO:HA	45:PI:301:MET:HE3	1.65	0.78
45:RC:119:LEU:HD13	45:RC:122:ILE:HD11	1.64	0.78
46:UL:48:ASN:O	46:UL:62:ARG:NH1	2.16	0.78
45:WI:31:GLN:NE2	45:WI:35:GLN:O	2.16	0.78
46:AB:242:PHE:HB3	46:AB:356:ILE:HD13	1.64	0.78
45:BK:101:ASN:OD1	46:BL:252:LYS:NZ	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:222:PRO:HG2	46:PF:324:LYS:HE2	1.63	0.78
46:PN:285:THR:N	46:PN:288:GLU:OE2	2.14	0.78
46:TH:282:ARG:HE	46:TH:283:ALA:H	1.32	0.78
45:VC:352:LYS:HZ3	46:VF:179:VAL:H	1.30	0.78
20:2K:379:ARG:HD2	45:GG:282:TYR:HD2	1.48	0.78
45:LG:349:THR:HG1	46:LJ:176:SER:HG	1.28	0.78
45:RC:55:GLU:HG3	45:RC:57:GLY:H	1.47	0.78
46:RF:54:ALA:HA	46:SF:283:ALA:HB2	1.65	0.78
46:UH:186:THR:HA	46:UH:189:VAL:HG12	1.66	0.78
10:3Q:85:LYS:NZ	35:5S:245:GLU:OE1	2.16	0.78
37:5F:44:ARG:NH2	45:NC:55:GLU:O	2.17	0.78
45:BI:288:VAL:HG11	45:BI:327:ASP:HB3	1.64	0.78
46:LF:135:ILE:HG13	46:LF:152:ILE:HD11	1.64	0.78
45:PE:55:GLU:HG3	45:PE:57:GLY:H	1.49	0.78
46:VF:73:MET:HA	46:VF:76:VAL:HG12	1.64	0.78
46:VL:86:ARG:HH11	46:VL:87:PRO:HD2	1.49	0.78
45:WC:41:THR:HG22	45:WC:42:ILE:H	1.47	0.78
26:1W:243:ILE:HG22	46:LB:276:ARG:HH21	1.47	0.78
46:BF:68:LEU:HB3	46:BF:96:GLY:HA2	1.65	0.78
46:CD:325:GLU:OE1	45:CE:221:ARG:NH1	2.15	0.78
45:DK:215:ARG:HH12	45:DK:299:ALA:HB1	1.47	0.78
46:JN:275:SER:O	46:JN:279:GLN:NE2	2.17	0.78
46:LF:371:SER:O	46:LF:422:TYR:OH	2.02	0.78
46:LH:200:MET:HG2	46:LH:266:PHE:HB2	1.65	0.78
45:MK:282:TYR:OH	45:MK:370:LYS:O	2.01	0.78
46:QD:347:ASN:ND2	45:QE:178:SER:OG	2.17	0.78
46:SF:62:ARG:HH22	46:SF:127:CYS:HB2	1.48	0.78
46:VJ:73:MET:HA	46:VJ:76:VAL:HG12	1.64	0.78
46:HF:356:ILE:HD12	46:HF:357:PRO:HD2	1.66	0.78
45:KI:326:LYS:NZ	46:KL:220:PRO:O	2.16	0.78
45:LM:157:LEU:HD22	45:LM:166:LYS:HD3	1.66	0.78
46:RH:272:PRO:HD3	46:RH:289:LEU:HD21	1.65	0.78
46:TD:324:LYS:NZ	45:TE:222:PRO:O	2.16	0.78
46:VB:242:PHE:HB3	46:VB:356:ILE:HD13	1.65	0.78
45:VG:221:ARG:NH2	46:VH:322:SER:O	2.16	0.78
46:BF:226:ASN:HD21	49:BF:501:GDP:HN1	1.31	0.78
46:DD:292:GLN:HG2	46:DD:298:ASN:HD21	1.46	0.78
45:NC:99:ALA:HA	45:NC:105:ARG:HD2	1.65	0.78
46:QB:237:THR:HG23	46:QB:241:ARG:HH21	1.48	0.78
46:QL:114:ASP:OD1	46:QL:115:SER:N	2.16	0.78
46:VH:273:LEU:H	46:VH:292:GLN:HE22	1.30	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AC:222:PRO:HD2	46:AD:324:LYS:HG3	1.64	0.78
45:BE:329:ASN:HD21	46:BH:175:VAL:HA	1.49	0.78
46:CB:14:ASN:HD22	46:CB:72:THR:HG22	1.49	0.78
46:ID:130:LEU:HB3	46:ID:162:ARG:HH12	1.46	0.78
45:LM:115:VAL:HG11	45:LM:152:LEU:HD22	1.64	0.78
46:MF:274:THR:OG1	46:MF:279:GLN:OE1	2.02	0.78
45:PG:326:LYS:HZ1	46:PJ:219:THR:HA	1.48	0.78
46:TD:385:PHE:HZ	46:TD:408:PHE:HD2	1.29	0.78
45:TM:271:SER:OG	45:TM:301:MET:SD	2.42	0.78
46:VL:54:ALA:HA	46:WL:283:ALA:HB2	1.66	0.78
8:1H:115:ARG:NH2	46:HL:280:GLN:H	1.81	0.77
31:3I:216:ARG:HH22	46:FL:128:ASP:HA	1.43	0.77
46:CL:325:GLU:HA	46:CL:328:GLU:HG2	1.65	0.77
46:FD:242:PHE:HB3	46:FD:356:ILE:HD13	1.66	0.77
45:PC:260:VAL:HB	46:PF:397:TRP:HH2	1.49	0.77
45:UC:288:VAL:HG21	45:UC:327:ASP:HB3	1.65	0.77
45:UG:89:PRO:HD2	45:VE:280:LYS:HE2	1.65	0.77
46:DN:273:LEU:H	46:DN:292:GLN:HE22	1.29	0.77
46:FH:67:ASP:O	46:FH:92:PHE:HA	1.83	0.77
45:HM:121:ARG:HA	45:HM:124:LYS:HE3	1.66	0.77
46:QN:200:MET:HE2	46:QN:268:ILE:HD13	1.65	0.77
46:SL:375:GLN:HE21	46:SL:422:TYR:HD2	1.31	0.77
45:TC:2:ARG:HD2	45:TC:133:GLN:HE22	1.49	0.77
46:VD:6:HIS:O	46:VD:63:ALA:HA	1.84	0.77
4:0D:187:PHE:HA	45:FA:221:ARG:HG3	1.66	0.77
24:1P:200:LEU:HD11	46:TH:276:ARG:HG2	1.64	0.77
36:5A:138:ARG:HH12	46:ND:357:PRO:HD2	1.49	0.77
44:8R:87:UNK:C	44:8R:89:UNK:N	2.44	0.77
46:AL:54:ALA:HA	46:BL:283:ALA:HB2	1.65	0.77
46:HB:49:VAL:O	46:HB:62:ARG:NH2	2.16	0.77
46:MJ:218:THR:HG23	46:MJ:219:THR:HG23	1.65	0.77
46:PB:273:LEU:H	46:PB:292:GLN:HE22	1.32	0.77
46:PL:273:LEU:H	46:PL:292:GLN:HE22	1.32	0.77
46:SL:6:HIS:O	46:SL:63:ALA:HA	1.83	0.77
46:TB:237:THR:HA	46:TB:240:LEU:HD13	1.67	0.77
46:VN:273:LEU:H	46:VN:292:GLN:HE22	1.29	0.77
45:WI:221:ARG:HA	46:WJ:324:LYS:HZ1	1.47	0.77
46:BD:73:MET:HA	46:BD:76:VAL:HG12	1.64	0.77
45:GI:90:GLU:OE1	45:GI:121:ARG:NH2	2.16	0.77
46:IL:6:HIS:O	46:IL:63:ALA:HA	1.85	0.77
45:OE:292:THR:HG21	45:OE:331:SER:HB3	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TH:247:ASN:OD1	45:TI:11:GLN:NE2	2.16	0.77
45:UC:292:THR:HG21	45:UC:331:SER:HB3	1.65	0.77
46:UL:68:LEU:HB3	46:UL:96:GLY:HA2	1.66	0.77
46:GJ:281:TYR:HB3	46:GJ:282:ARG:HH21	1.50	0.77
46:HJ:371:SER:O	46:HJ:422:TYR:OH	2.01	0.77
45:KI:178:SER:OG	46:KJ:347:ASN:ND2	2.17	0.77
46:PJ:273:LEU:H	46:PJ:292:GLN:HE22	1.32	0.77
46:QL:86:ARG:HH21	46:QL:87:PRO:HG2	1.48	0.77
45:SC:48:ALA:HB1	45:SC:243:ARG:HB2	1.65	0.77
46:VL:58:ARG:NH1	46:VL:59:TYR:O	2.18	0.77
46:WF:164:MET:HG3	46:WF:197:ASP:HB2	1.66	0.77
11:1S:20:ASN:ND2	46:WF:74:ASP:OD1	2.17	0.77
45:BE:88:HIS:NE2	45:CE:284:GLU:OE2	2.16	0.77
46:BH:86:ARG:HE	46:BH:87:PRO:HD2	1.48	0.77
46:FB:313:ALA:HB3	46:FB:349:ILE:HG22	1.66	0.77
46:GJ:242:PHE:HB3	46:GJ:356:ILE:HD13	1.67	0.77
46:GN:67:ASP:O	46:GN:92:PHE:HA	1.84	0.77
45:LI:71:GLU:OE2	46:LJ:2:ARG:NH2	2.17	0.77
45:NK:279:GLU:HG2	45:NK:280:LYS:H	1.49	0.77
45:PG:178:SER:OG	46:PH:347:ASN:ND2	2.17	0.77
46:PL:248:SER:HA	46:PL:252:LYS:HD3	1.66	0.77
46:UL:207:LEU:HB3	46:UL:225:LEU:HD22	1.66	0.77
46:VF:164:MET:HE3	46:VF:196:ALA:HA	1.67	0.77
45:WG:222:PRO:HD2	46:WH:324:LYS:HD2	1.65	0.77
45:EE:91:GLN:HE22	45:EE:125:LEU:HD21	1.49	0.77
46:FD:128:ASP:OD1	46:FD:129:CYS:N	2.18	0.77
45:LM:36:MET:HG3	45:LM:38:SER:H	1.48	0.77
46:PH:248:SER:HA	46:PH:252:LYS:HD2	1.67	0.77
45:QG:140:SER:OG	47:QG:501:GTP:O2B	2.03	0.77
46:QJ:257:LEU:HD11	46:QJ:314:SER:HB2	1.66	0.77
45:RG:33:ASP:HA	45:RG:85:GLN:HE21	1.49	0.77
46:TF:178:THR:HB	46:TF:181:GLU:HG3	1.67	0.77
39:6F:78:VAL:O	39:6F:82:GLN:HB2	1.84	0.77
45:BK:123:ARG:NH1	45:BK:127:ASP:OD2	2.18	0.77
45:HG:221:ARG:NH1	46:HH:325:GLU:OE1	2.18	0.77
46:KJ:70:PRO:O	46:KJ:74:ASP:HB2	1.84	0.77
45:OC:288:VAL:HG21	45:OC:327:ASP:HB3	1.66	0.77
45:OC:292:THR:HG21	45:OC:331:SER:HB3	1.67	0.77
45:PE:288:VAL:HG11	45:PE:327:ASP:HB3	1.66	0.77
46:PL:164:MET:HB3	46:PL:197:ASP:H	1.49	0.77
45:QK:140:SER:OG	47:QK:501:GTP:O2B	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RK:211:ASP:OD2	45:RK:215:ARG:NH1	2.16	0.77
46:SH:242:PHE:HB3	46:SH:356:ILE:HD13	1.67	0.77
46:SJ:54:ALA:HA	46:TJ:283:ALA:HB2	1.66	0.77
46:SL:207:LEU:HB3	46:SL:225:LEU:HD22	1.65	0.77
21:1L:525:LEU:HD13	46:BF:320:ARG:HB2	1.67	0.77
45:AG:288:VAL:HG11	45:AG:327:ASP:HB3	1.65	0.77
46:AJ:295:ASP:OD2	46:AJ:297:LYS:NZ	2.18	0.77
46:CB:346:PRO:HD2	45:CC:398:MET:HE3	1.67	0.77
45:CK:224:TYR:HA	45:CK:227:LEU:HD12	1.65	0.77
45:HK:271:SER:OG	45:HK:301:MET:SD	2.43	0.77
46:ID:7:ILE:HG23	46:ID:135:ILE:HG12	1.67	0.77
46:IH:73:MET:HA	46:IH:76:VAL:HG12	1.67	0.77
46:MN:135:ILE:HG13	46:MN:152:ILE:HD11	1.66	0.77
45:NA:394:LYS:HE3	46:NB:346:PRO:HG2	1.65	0.77
45:OG:242:LEU:HD11	45:OG:252:ILE:HD11	1.66	0.77
45:SG:217:LEU:HD11	45:SG:367:ASP:HB2	1.65	0.77
45:VK:209:ILE:HD11	45:VK:230:LEU:HD23	1.66	0.77
45:GI:285:GLN:HE22	45:GI:287:SER:HB2	1.50	0.77
46:IB:6:HIS:NE2	46:IB:8:GLN:OE1	2.18	0.77
45:JC:55:GLU:HG3	45:JC:57:GLY:H	1.49	0.77
45:LK:406:HIS:HA	45:LK:409:VAL:HG12	1.67	0.77
45:NK:180:ALA:HA	46:NL:350:LYS:NZ	2.00	0.77
46:NL:167:PHE:HE2	46:NL:233:MET:HG3	1.50	0.77
46:OD:178:THR:HG22	46:OD:180:VAL:H	1.48	0.77
45:PC:324:VAL:HG11	45:PC:326:LYS:HE2	1.67	0.77
46:SB:21:TRP:HA	46:SB:24:ILE:HG12	1.64	0.77
46:TB:48:ASN:O	46:TB:62:ARG:NH1	2.16	0.77
46:UJ:372:THR:HA	46:UJ:422:TYR:HE2	1.50	0.77
45:WG:40:LYS:HD2	45:WG:41:THR:HG23	1.66	0.77
11:0S:278:ARG:NH2	46:WB:115:SER:O	2.18	0.76
21:1L:481:LYS:NZ	46:CF:280:GLN:OE1	2.17	0.76
34:7R:112:ARG:HH12	46:BD:276:ARG:HD3	1.49	0.76
45:OA:100:ALA:HB1	46:OB:252:LYS:HG3	1.67	0.76
46:PD:224:ASP:HA	46:PD:227:HIS:HD2	1.48	0.76
45:TE:326:LYS:HE3	46:TF:220:PRO:HG2	1.65	0.76
8:1H:90:ARG:NH2	45:HK:278:ALA:O	2.17	0.76
19:1J:140:PHE:CE2	45:IE:369:ALA:HB1	2.19	0.76
10:1Q:38:THR:HG22	35:4S:208:GLN:HE22	1.48	0.76
37:5F:13:ASN:ND2	37:5F:22:LYS:O	2.18	0.76
41:6H:342:VAL:HG12	41:6H:344:ASN:H	1.51	0.76
46:DD:371:SER:O	46:DD:422:TYR:OH	2.03	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DL:200:MET:HG3	46:DL:266:PHE:HB2	1.67	0.76
45:EC:15:GLN:O	45:EC:228:ASN:ND2	2.17	0.76
46:GN:290:THR:HA	46:GN:293:MET:SD	2.26	0.76
45:IC:292:THR:HG21	45:IC:331:SER:HB3	1.66	0.76
45:LI:221:ARG:HA	46:LJ:324:LYS:HZ1	1.48	0.76
46:ND:156:ARG:NH1	46:ND:194:GLU:O	2.19	0.76
45:SE:91:GLN:HG2	45:SE:121:ARG:HE	1.50	0.76
45:SM:254:GLU:HG2	46:SN:98:GLY:HA2	1.68	0.76
46:TD:256:ASN:HD22	46:TD:350:LYS:HD3	1.49	0.76
46:TL:318:ARG:HB2	46:TL:364:ALA:HB3	1.65	0.76
45:VC:55:GLU:HG3	45:VC:57:GLY:H	1.48	0.76
8:1H:90:ARG:HH12	45:HK:279:GLU:HA	1.50	0.76
25:1R:312:GLN:NE2	46:CD:359:LYS:O	2.18	0.76
1:3A:152:LYS:NZ	34:6R:78:ILE:O	2.18	0.76
36:5B:102:TYR:OH	45:KE:390:ARG:NH2	2.19	0.76
45:AI:284:GLU:OE2	45:MI:88:HIS:NE2	2.17	0.76
46:BF:67:ASP:O	46:BF:92:PHE:HA	1.85	0.76
46:BN:86:ARG:NE	46:BN:87:PRO:HD2	2.00	0.76
45:HG:69:ASP:OD1	45:HG:70:LEU:N	2.18	0.76
46:JN:376:GLU:HA	46:JN:379:LYS:HE2	1.67	0.76
45:MC:258:ASN:HD22	45:MC:352:LYS:HD2	1.49	0.76
45:NI:271:SER:OG	45:NI:301:MET:SD	2.43	0.76
46:QH:200:MET:HG2	46:QH:266:PHE:HB2	1.66	0.76
45:UC:215:ARG:NH2	45:UC:300:ASN:OD1	2.19	0.76
46:WN:8:GLN:HE21	46:WN:65:LEU:HG	1.50	0.76
46:EB:31:ASP:OD2	46:EB:37:HIS:ND1	2.18	0.76
45:HC:326:LYS:HG2	46:HF:212:PHE:HE2	1.50	0.76
46:IB:287:PRO:O	46:IB:291:GLN:NE2	2.19	0.76
46:KL:260:PHE:HB2	46:KL:263:LEU:HD13	1.66	0.76
46:OL:215:LEU:HB3	46:OL:217:LEU:HD23	1.65	0.76
46:QH:67:ASP:O	46:QH:92:PHE:HA	1.85	0.76
46:QH:73:MET:HA	46:QH:76:VAL:HG12	1.68	0.76
46:SF:251:ARG:HD3	45:SG:105:ARG:HH12	1.51	0.76
46:UF:273:LEU:H	46:UF:292:GLN:HE22	1.32	0.76
46:VN:129:CYS:SG	46:VN:131:GLN:NE2	2.58	0.76
13:2U:226:ILE:HG23	45:WG:43:GLY:HA2	1.65	0.76
45:CC:9:VAL:HG12	45:CC:68:LEU:HB2	1.66	0.76
46:CF:86:ARG:CD	46:DF:281:TYR:CD1	2.67	0.76
46:RJ:257:LEU:HD21	46:RJ:314:SER:HB2	1.65	0.76
46:VN:248:SER:HA	46:VN:252:LYS:HD3	1.68	0.76
19:1J:171:TYR:OH	46:HH:54:ALA:O	2.03	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1L:151:ARG:NH2	46:CH:357:PRO:O	2.18	0.76
45:AE:297:GLU:OE2	45:AE:300:ASN:ND2	2.18	0.76
45:BM:288:VAL:HG11	45:BM:327:ASP:HB3	1.68	0.76
46:DF:83:GLN:O	46:EF:281:TYR:OH	2.03	0.76
46:FD:371:SER:O	46:FD:422:TYR:OH	2.02	0.76
45:JK:326:LYS:NZ	46:JN:218:THR:O	2.18	0.76
46:ML:107:THR:OG1	46:ML:108:GLU:OE1	2.03	0.76
45:PC:55:GLU:HG3	45:PC:57:GLY:H	1.49	0.76
45:QA:215:ARG:NH2	45:QA:299:ALA:O	2.19	0.76
45:QA:217:LEU:HD11	45:QA:367:ASP:HB3	1.67	0.76
46:QL:237:THR:HG23	46:QL:241:ARG:HH21	1.51	0.76
46:TL:46:ARG:HH22	45:TM:73:THR:HA	1.50	0.76
46:UD:324:LYS:HD2	45:UE:222:PRO:HG2	1.68	0.76
45:UE:215:ARG:NH2	45:UE:300:ASN:OD1	2.18	0.76
46:WD:11:GLN:NE2	49:WD:501:GDP:O1A	2.19	0.76
3:1C:37:ILE:HD11	45:DM:89:PRO:HG3	1.68	0.76
46:GF:215:LEU:HB3	46:GF:217:LEU:HD23	1.68	0.76
45:GK:288:VAL:HG21	45:GK:327:ASP:HB3	1.64	0.76
46:UJ:178:THR:HB	46:UJ:181:GLU:HG3	1.68	0.76
46:UN:135:ILE:HG13	46:UN:152:ILE:HD11	1.68	0.76
45:AC:326:LYS:HD3	46:AF:220:PRO:HD2	1.66	0.76
46:AN:139:LEU:HD11	46:AN:168:SER:HB3	1.67	0.76
45:DE:188:ILE:HD12	45:DE:425:LEU:HD11	1.67	0.76
45:EK:37:PRO:HG2	45:EK:40:LYS:HD3	1.67	0.76
45:FA:301:MET:HG3	45:FA:303:ALA:H	1.50	0.76
45:KI:177:VAL:HG22	46:KJ:331:LEU:HD11	1.66	0.76
45:QE:9:VAL:HG12	45:QE:68:LEU:HB2	1.68	0.76
37:5H:29:LYS:NZ	45:OK:217:LEU:O	2.18	0.76
46:DH:11:GLN:NE2	49:DH:501:GDP:O1A	2.19	0.76
46:FJ:371:SER:O	46:FJ:422:TYR:OH	2.04	0.76
45:FM:91:GLN:HG2	45:FM:121:ARG:HD2	1.67	0.76
45:HC:221:ARG:NH1	46:HD:322:SER:OG	2.19	0.76
45:HK:69:ASP:OD1	45:HK:70:LEU:N	2.18	0.76
46:LL:73:MET:HA	46:LL:76:VAL:HG12	1.65	0.76
46:MH:11:GLN:NE2	49:MH:501:GDP:O1A	2.19	0.76
46:MJ:103:LYS:HA	46:MJ:107:THR:HG22	1.68	0.76
45:NG:99:ALA:HA	45:NG:105:ARG:HD2	1.65	0.76
45:PC:319:TYR:HB3	45:PC:323:VAL:HG11	1.68	0.76
46:QL:166:THR:OG1	46:QL:199:CYS:SG	2.43	0.76
46:FF:285:THR:N	46:FF:288:GLU:OE2	2.19	0.76
46:JJ:67:ASP:O	46:JJ:92:PHE:HA	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LD:73:MET:HA	46:LD:76:VAL:HG12	1.66	0.76
46:MN:371:SER:O	46:MN:422:TYR:OH	2.02	0.76
45:OC:167:LEU:HD13	45:OC:200:VAL:HG21	1.68	0.76
46:VJ:209:ASP:OD2	46:VJ:213:ARG:NH1	2.20	0.76
46:WD:156:ARG:HH21	46:WD:164:MET:HB2	1.51	0.76
46:WF:350:LYS:NZ	46:WF:352:SER:OG	2.19	0.76
45:DC:258:ASN:HD22	45:DC:352:LYS:HE3	1.51	0.76
4:1D:40:GLY:O	45:DG:79:ARG:NH1	2.14	0.75
37:5G:83:LEU:HD21	45:KI:405:VAL:HB	1.67	0.75
39:6F:130:SER:H	46:IH:359:LYS:HZ1	1.32	0.75
34:6R:457:GLU:HB2	34:6R:470:PHE:HB2	1.68	0.75
45:BA:326:LYS:HD3	46:BD:220:PRO:HD2	1.68	0.75
46:BF:97:ALA:HB3	46:BF:143:THR:HG22	1.69	0.75
46:CH:73:MET:HA	46:CH:76:VAL:HG12	1.68	0.75
46:DF:7:ILE:HG22	46:DF:64:ILE:HG12	1.66	0.75
45:GA:161:TYR:HB3	45:GA:164:LYS:HD2	1.68	0.75
45:GK:254:GLU:HG2	46:GN:98:GLY:HA2	1.67	0.75
45:NI:11:GLN:NE2	46:NJ:245:GLN:O	2.19	0.75
46:QB:235:GLY:HA3	46:QB:366:THR:HG21	1.67	0.75
46:QN:273:LEU:H	46:QN:292:GLN:HE22	1.34	0.75
46:TD:282:ARG:HE	46:TD:283:ALA:H	1.34	0.75
46:UF:226:ASN:HD21	49:UF:501:GDP:HN1	1.33	0.75
8:1H:271:ARG:HH21	46:HF:362:LYS:HB2	1.49	0.75
30:4H:191:LEU:HD23	46:AL:360:GLY:HA2	1.68	0.75
46:DH:68:LEU:HD12	46:DH:93:GLY:HA3	1.68	0.75
46:EH:273:LEU:H	46:EH:292:GLN:HE22	1.34	0.75
45:EM:101:ASN:HA	45:EM:144:GLY:H	1.50	0.75
45:HE:352:LYS:HZ1	46:HH:179:VAL:H	1.32	0.75
45:JC:116:ASP:OD1	45:JC:117:LEU:N	2.20	0.75
45:MG:91:GLN:HG2	45:MG:121:ARG:HD2	1.68	0.75
45:PK:64:ARG:HG3	45:PK:125:LEU:HD11	1.67	0.75
46:QF:273:LEU:H	46:QF:292:GLN:HE22	1.33	0.75
46:SB:334:GLN:HA	46:SB:341:PHE:HE2	1.50	0.75
46:UD:130:LEU:HG	46:UD:162:ARG:HD2	1.69	0.75
46:UH:67:ASP:O	46:UH:92:PHE:HA	1.86	0.75
1:2A:3:GLN:NE2	34:5R:6:PRO:O	2.19	0.75
36:5A:167:LYS:NZ	45:NC:278:ALA:O	2.19	0.75
37:5E:123:ARG:HH22	45:OA:372:MET:HA	1.51	0.75
45:AE:328:VAL:HG11	45:AE:353:VAL:HG21	1.68	0.75
46:DF:11:GLN:NE2	49:DF:501:GDP:O2A	2.19	0.75
45:FA:192:HIS:NE2	45:FA:424:ASP:OD2	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HB:3:GLU:OE1	46:HB:62:ARG:NH1	2.19	0.75
46:HH:2:ARG:HD2	46:HH:240:LEU:HD11	1.68	0.75
45:KE:178:SER:OG	46:KF:347:ASN:ND2	2.19	0.75
45:NM:50:ASN:O	45:NM:64:ARG:NH2	2.18	0.75
45:OG:2:ARG:HH21	45:OG:242:LEU:HD23	1.50	0.75
45:SI:2:ARG:HH21	45:SI:243:ARG:HA	1.49	0.75
46:SN:273:LEU:H	46:SN:292:GLN:HE22	1.33	0.75
45:BE:221:ARG:HH22	46:BF:321:MET:HA	1.51	0.75
46:BF:135:ILE:HG13	46:BF:152:ILE:HD11	1.67	0.75
46:GD:139:LEU:HD12	46:GD:170:VAL:HG12	1.67	0.75
45:TE:224:TYR:O	45:TE:228:ASN:ND2	2.19	0.75
45:TK:260:VAL:HB	46:TL:397:TRP:HZ2	1.51	0.75
46:UJ:32:PRO:O	46:UJ:83:GLN:NE2	2.20	0.75
45:WM:55:GLU:HG3	45:WM:57:GLY:H	1.51	0.75
45:DC:167:LEU:HD22	45:DC:200:VAL:HB	1.69	0.75
34:5R:71:LYS:HD2	34:5R:72:ALA:N	2.02	0.75
35:5S:194:LYS:HA	35:5S:218:ILE:HD11	1.69	0.75
46:CF:386:THR:OG1	46:CF:390:ARG:NH1	2.19	0.75
46:DJ:222:TYR:HA	46:DJ:225:LEU:HD12	1.69	0.75
45:EE:288:VAL:HG11	45:EE:327:ASP:HB3	1.68	0.75
46:EF:8:GLN:NE2	46:EF:10:GLY:O	2.19	0.75
46:GD:226:ASN:HD21	49:GD:501:GDP:HN1	1.33	0.75
46:GH:290:THR:HA	46:GH:293:MET:SD	2.27	0.75
46:HF:226:ASN:HD21	49:HF:501:GDP:HN1	1.34	0.75
45:IA:261:PRO:HD2	45:IA:262:TYR:N	2.01	0.75
45:JI:288:VAL:HG21	45:JI:327:ASP:HB3	1.66	0.75
46:NJ:238:CYS:SG	46:NJ:318:ARG:NH1	2.58	0.75
45:PA:254:GLU:HG2	46:PD:98:GLY:HA2	1.69	0.75
46:QD:45:GLU:HG2	46:QD:46:ARG:HG2	1.67	0.75
45:QI:119:LEU:HG	45:QI:156:ARG:HE	1.49	0.75
46:RJ:318:ARG:HB2	46:RJ:364:ALA:HB3	1.68	0.75
46:RL:260:PHE:HB2	46:RL:263:LEU:HD13	1.66	0.75
46:VD:322:SER:OG	46:VD:325:GLU:OE1	2.04	0.75
46:WD:318:ARG:HB3	46:WD:364:ALA:HB3	1.68	0.75
45:BC:214:ARG:NH1	45:BC:220:GLU:OE1	2.18	0.75
45:FK:222:PRO:HD2	46:FL:324:LYS:HD2	1.66	0.75
45:FK:238:LEU:HA	45:FK:318:MET:HE1	1.69	0.75
45:GA:389:SER:O	45:GA:393:HIS:ND1	2.14	0.75
45:IC:392:ASP:OD2	45:IC:422:ARG:NH1	2.20	0.75
46:IF:73:MET:HA	46:IF:76:VAL:HG12	1.69	0.75
46:IJ:282:ARG:NH2	46:IJ:292:GLN:OE1	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LN:67:ASP:O	46:LN:92:PHE:HA	1.86	0.75
46:RN:86:ARG:HH11	46:SN:281:TYR:HB2	1.51	0.75
46:TL:67:ASP:O	46:TL:92:PHE:HA	1.86	0.75
24:1P:168:ARG:NH2	45:TI:370:LYS:O	2.19	0.75
35:4S:194:LYS:HA	35:4S:218:ILE:HD11	1.69	0.75
40:6G:268:VAL:HG12	40:6G:270:THR:H	1.49	0.75
46:EH:215:LEU:HD22	46:EH:217:LEU:HB2	1.68	0.75
46:FF:173:PRO:HG2	46:FF:380:ARG:HD2	1.69	0.75
46:HH:403:MET:HB3	46:HH:407:GLU:OE2	1.86	0.75
46:IH:287:PRO:HA	46:IH:329:GLN:HE22	1.49	0.75
46:NF:306:ARG:HA	46:NF:340:TYR:HE2	1.52	0.75
46:PL:83:GLN:O	46:QJ:281:TYR:OH	2.03	0.75
46:TL:242:PHE:HB3	46:TL:356:ILE:HD13	1.69	0.75
45:UM:71:GLU:HB2	45:UM:98:ASP:HB2	1.67	0.75
34:7R:185:SER:HA	34:7R:188:LYS:HD2	1.69	0.75
46:AH:67:ASP:O	46:AH:92:PHE:HA	1.86	0.75
46:BB:319:GLY:HA2	46:BB:357:PRO:HG3	1.68	0.75
46:FD:229:VAL:HG12	46:FD:233:MET:HE2	1.69	0.75
45:GI:55:GLU:O	45:HI:285:GLN:NE2	2.20	0.75
46:GL:268:ILE:HG22	46:GL:368:VAL:HG12	1.69	0.75
45:HG:257:THR:HA	46:HJ:397:TRP:CH2	2.22	0.75
45:LC:40:LYS:HD3	45:LC:41:THR:H	1.52	0.75
46:PJ:299:MET:HG3	46:PJ:305:PRO:HG3	1.69	0.75
46:PN:68:LEU:HB3	46:PN:96:GLY:HA2	1.68	0.75
46:QH:217:LEU:HD23	46:QH:219:THR:H	1.51	0.75
45:QK:55:GLU:HG3	45:QK:57:GLY:H	1.51	0.75
46:RD:163:ILE:HD11	46:RD:251:ARG:HH11	1.52	0.75
45:SK:33:ASP:HA	45:SK:85:GLN:HE21	1.51	0.75
45:TK:280:LYS:HA	45:TK:283:HIS:HD2	1.50	0.75
46:TL:289:LEU:HD11	46:TL:363:MET:HB3	1.69	0.75
45:WA:180:ALA:HA	46:WB:350:LYS:HZ3	1.52	0.75
46:WF:248:SER:HA	46:WF:252:LYS:HD3	1.68	0.75
7:0G:31:MET:SD	46:JL:279:GLN:NE2	2.59	0.75
46:GJ:67:ASP:O	46:GJ:92:PHE:HA	1.87	0.75
46:HB:3:GLU:O	46:HB:131:GLN:NE2	2.20	0.75
46:HH:242:PHE:HB3	46:HH:356:ILE:HD13	1.68	0.75
46:IH:222:TYR:O	46:IH:226:ASN:ND2	2.20	0.75
46:KF:207:LEU:HB3	46:KF:225:LEU:HD22	1.69	0.75
45:KK:27:GLU:OE2	45:KK:243:ARG:NH1	2.19	0.75
46:SL:371:SER:O	46:SL:422:TYR:OH	2.04	0.75
46:UN:74:ASP:HA	46:UN:77:ARG:HD2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:139:GLN:OE1	46:AJ:320:ARG:NH2	2.20	0.74
45:DE:387:VAL:HG12	45:DE:390:ARG:HH22	1.51	0.74
46:DH:73:MET:HA	46:DH:76:VAL:HG12	1.69	0.74
45:GK:91:GLN:HG2	45:GK:121:ARG:HD2	1.69	0.74
46:HH:178:THR:HG22	46:HH:180:VAL:H	1.52	0.74
46:HJ:135:ILE:HG13	46:HJ:152:ILE:HD11	1.69	0.74
46:JN:208:TYR:HE1	46:JN:225:LEU:HD11	1.50	0.74
45:OM:55:GLU:HG3	45:OM:57:GLY:H	1.51	0.74
45:QK:268:MET:HG2	45:QK:380:ASN:HB3	1.69	0.74
46:RF:235:GLY:HA3	46:RF:366:THR:HG21	1.69	0.74
45:SE:9:VAL:HG12	45:SE:68:LEU:HB2	1.67	0.74
46:UF:324:LYS:H	45:UG:221:ARG:HH22	1.34	0.74
46:UH:226:ASN:HD21	49:UH:501:GDP:HN1	1.33	0.74
45:UK:258:ASN:HB3	45:UK:352:LYS:HD2	1.68	0.74
18:1I:139:ARG:HH11	46:KF:359:LYS:HD3	1.49	0.74
36:5A:156:VAL:HG23	45:KC:433:GLU:HG2	1.68	0.74
40:6G:125:ASP:OD2	46:VJ:213:ARG:NH2	2.20	0.74
45:HK:326:LYS:HZ1	46:HN:219:THR:HA	1.49	0.74
46:HN:287:PRO:O	46:HN:291:GLN:NE2	2.19	0.74
45:JM:178:SER:OG	46:JN:347:ASN:ND2	2.20	0.74
46:JN:11:GLN:NE2	49:JN:501:GDP:O1A	2.20	0.74
45:NM:180:ALA:HB3	45:NM:183:GLU:HG3	1.70	0.74
46:PH:218:THR:HG23	46:PH:219:THR:HG23	1.68	0.74
46:RL:259:PRO:HD2	46:RL:260:PHE:N	2.02	0.74
46:RL:376:GLU:HB3	46:RL:380:ARG:NH1	2.01	0.74
45:SM:229:ARG:HH12	45:SM:366:GLY:HA2	1.51	0.74
45:TG:271:SER:OG	45:TG:301:MET:SD	2.45	0.74
46:VH:282:ARG:NH2	46:VH:292:GLN:OE1	2.20	0.74
45:CE:211:ASP:HB3	45:CE:215:ARG:NH2	2.02	0.74
8:1H:60:ARG:HH22	46:HN:33:THR:H	1.35	0.74
24:2P:354:LYS:HZ1	46:TN:359:LYS:HG2	1.48	0.74
46:CF:73:MET:HA	46:CF:76:VAL:HG12	1.69	0.74
45:GG:298:PRO:HB3	45:GG:308:ARG:HH12	1.53	0.74
45:HA:176:GLN:OE1	45:HA:304:LYS:NZ	2.20	0.74
46:IF:218:THR:HG23	46:IF:219:THR:HG23	1.69	0.74
45:JC:292:THR:HG21	45:JC:331:SER:HB2	1.67	0.74
45:KA:47:ASP:OD1	45:KA:48:ALA:N	2.17	0.74
46:NB:372:THR:HA	46:NB:422:TYR:HE1	1.53	0.74
45:PK:244:PHE:HB2	45:PK:356:ASN:HD21	1.52	0.74
46:RD:54:ALA:HA	46:SD:283:ALA:HB2	1.69	0.74
46:SJ:173:PRO:HG2	46:SJ:380:ARG:HE	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UH:242:PHE:HB3	46:UH:356:ILE:HD13	1.70	0.74
33:4F:160:THR:HA	46:IN:320:ARG:HH12	1.51	0.74
33:4F:172:LYS:HE2	45:IM:31:GLN:HG3	1.67	0.74
37:5E:173:LYS:HD2	46:KD:194:GLU:HA	1.69	0.74
37:5G:104:MET:HG3	37:5G:105:LYS:H	1.53	0.74
45:AM:46:ASP:OD1	45:AM:47:ASP:N	2.20	0.74
46:EL:235:GLY:HA3	46:EL:366:THR:HG21	1.68	0.74
45:GK:210:TYR:HE1	45:GK:227:LEU:HD11	1.51	0.74
46:JJ:73:MET:HA	46:JJ:76:VAL:HG12	1.69	0.74
45:KA:56:THR:HG23	45:KA:58:ALA:H	1.52	0.74
46:KJ:107:THR:OG1	46:KJ:108:GLU:OE2	2.03	0.74
45:NE:11:GLN:NE2	46:NF:245:GLN:O	2.20	0.74
46:NH:178:THR:HB	46:NH:181:GLU:HG3	1.69	0.74
46:PF:86:ARG:HD2	46:PF:87:PRO:HD2	1.68	0.74
45:RI:244:PHE:HB2	45:RI:356:ASN:HD21	1.50	0.74
45:WM:24:PHE:O	45:WM:28:HIS:ND1	2.18	0.74
7:1G:132:ARG:HH22	45:JA:82:THR:HA	1.50	0.74
46:AJ:322:SER:OG	46:AJ:325:GLU:OE1	2.06	0.74
45:BK:256:GLN:HB2	46:BN:397:TRP:CH2	2.22	0.74
46:CF:164:MET:HB3	46:CF:197:ASP:H	1.51	0.74
45:CG:22:GLU:OE1	45:CG:83:TYR:OH	2.04	0.74
46:EB:2:ARG:NH1	46:EB:131:GLN:OE1	2.20	0.74
46:KB:285:THR:HG23	46:KB:287:PRO:HD2	1.70	0.74
45:NK:285:GLN:HE22	45:NK:287:SER:HB2	1.50	0.74
45:QG:254:GLU:HG2	46:QH:98:GLY:HA2	1.68	0.74
46:SF:174:LYS:HE2	46:SF:205:GLU:HG2	1.67	0.74
45:VA:73:THR:OG1	46:VB:2:ARG:NH2	2.20	0.74
47:WI:501:GTP:O1G	46:WJ:252:LYS:NZ	2.20	0.74
30:2H:167:LYS:NZ	45:MA:55:GLU:OE2	2.19	0.74
15:4X:93:ALA:O	15:4X:97:GLN:NE2	2.21	0.74
37:5H:110:ARG:NH1	37:5H:111:ASN:OD1	2.20	0.74
45:BG:288:VAL:HG11	45:BG:327:ASP:HB3	1.70	0.74
46:CB:377:MET:HA	46:CB:380:ARG:HG2	1.69	0.74
45:EM:5:ILE:HD12	45:EM:125:LEU:HD13	1.68	0.74
45:II:276:ILE:HG21	45:II:281:ALA:HB2	1.69	0.74
46:JF:91:VAL:HG11	46:JF:116:VAL:HG12	1.69	0.74
45:MG:326:LYS:HZ3	46:MJ:208:TYR:HB3	1.53	0.74
46:TH:284:LEU:HD11	46:TH:363:MET:HB3	1.68	0.74
45:VA:324:VAL:HG11	45:VA:326:LYS:HZ2	1.52	0.74
46:VL:107:THR:OG1	46:VL:108:GLU:OE1	2.04	0.74
45:VM:221:ARG:NH1	46:VN:322:SER:OG	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WF:67:ASP:O	46:WF:92:PHE:HA	1.88	0.74
37:5F:44:ARG:NH1	45:OC:284:GLU:O	2.20	0.74
45:KK:336:LYS:HD3	45:KK:351:PHE:HE2	1.52	0.74
46:OB:207:LEU:HB3	46:OB:225:LEU:HD22	1.69	0.74
46:ON:54:ALA:HA	46:PN:283:ALA:HB2	1.68	0.74
46:PF:178:THR:HB	46:PF:181:GLU:HG2	1.70	0.74
46:SD:156:ARG:NH2	46:SD:159:TYR:O	2.21	0.74
46:VB:215:LEU:HB3	46:VB:217:LEU:HD23	1.69	0.74
45:WE:175:PRO:O	45:WE:390:ARG:NH2	2.19	0.74
5:2E:61:LYS:HE2	46:DJ:37:HIS:HA	1.69	0.74
12:2T:224:LYS:N	45:MG:196:GLU:OE1	2.18	0.74
46:FL:322:SER:OG	46:FL:325:GLU:OE1	2.04	0.74
46:ID:200:MET:HG3	46:ID:266:PHE:HB2	1.70	0.74
46:JF:73:MET:HA	46:JF:76:VAL:HG12	1.69	0.74
45:LG:9:VAL:HG12	45:LG:68:LEU:HB2	1.69	0.74
45:NK:221:ARG:NH1	46:NL:325:GLU:OE2	2.21	0.74
45:OC:207:GLU:HA	45:OC:210:TYR:HD1	1.53	0.74
45:PC:31:GLN:NE2	45:PC:35:GLN:O	2.21	0.74
46:UJ:73:MET:HA	46:UJ:76:VAL:HG12	1.69	0.74
46:WJ:1:MET:N	46:WJ:3:GLU:OE2	2.21	0.74
45:AC:386:GLU:OE2	45:AC:390:ARG:NH2	2.21	0.74
46:EF:377:MET:SD	46:EF:380:ARG:NH2	2.61	0.74
45:FE:224:TYR:O	45:FE:228:ASN:ND2	2.19	0.74
45:FK:345:ASP:OD2	46:FN:390:ARG:NH2	2.21	0.74
45:HG:55:GLU:HG3	45:HG:57:GLY:H	1.53	0.74
46:ID:73:MET:HA	46:ID:76:VAL:HG22	1.70	0.74
46:LL:62:ARG:NH1	46:LL:127:CYS:SG	2.61	0.74
45:OA:256:GLN:HG2	46:OD:397:TRP:HH2	1.51	0.74
45:OE:207:GLU:HA	45:OE:210:TYR:HB2	1.70	0.74
46:PB:58:ARG:HH22	46:PB:84:LEU:HA	1.52	0.74
45:QA:259:LEU:O	45:QA:380:ASN:ND2	2.19	0.74
45:WG:31:GLN:NE2	45:WG:35:GLN:O	2.21	0.74
46:FH:242:PHE:HB3	46:FH:356:ILE:HD13	1.68	0.74
46:FJ:135:ILE:HG13	46:FJ:152:ILE:HD11	1.70	0.74
46:LD:7:ILE:HG22	46:LD:64:ILE:HB	1.69	0.74
46:OB:248:SER:HA	46:OB:252:LYS:HD3	1.70	0.74
45:PE:244:PHE:HB2	45:PE:356:ASN:HD21	1.53	0.74
46:QJ:11:GLN:NE2	49:QJ:501:GDP:O1A	2.21	0.74
46:SN:290:THR:HA	46:SN:293:MET:HG3	1.69	0.74
46:TD:325:GLU:HG2	45:TE:221:ARG:NH1	2.03	0.74
46:UD:215:LEU:HB3	46:UD:217:LEU:HD23	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VN:48:ASN:O	46:VN:62:ARG:NH1	2.19	0.74
16:3B:180:GLU:HG2	15:4X:113:LEU:HD21	1.68	0.73
36:5D:19:ARG:HG2	36:5D:20:LEU:H	1.53	0.73
35:5S:183:TYR:HE1	35:5S:225:LEU:HD21	1.53	0.73
46:AF:67:ASP:OD2	46:AF:72:THR:OG1	2.06	0.73
45:CG:226:ASN:ND2	45:CG:367:ASP:OD2	2.21	0.73
45:DE:326:LYS:HE2	46:DF:220:PRO:HD2	1.70	0.73
46:DJ:166:THR:OG1	46:DJ:199:CYS:SG	2.45	0.73
46:EB:48:ASN:O	46:EB:62:ARG:NH1	2.20	0.73
46:IN:248:SER:HA	46:IN:252:LYS:HD2	1.69	0.73
46:LH:134:GLN:NE2	46:LH:233:MET:SD	2.60	0.73
46:NL:242:PHE:HB3	46:NL:356:ILE:HD13	1.69	0.73
46:OF:222:TYR:O	46:OF:226:ASN:ND2	2.16	0.73
45:OM:221:ARG:NH2	46:ON:322:SER:OG	2.19	0.73
45:PC:391:LEU:HG	45:PC:394:LYS:HZ2	1.52	0.73
45:TI:226:ASN:ND2	45:TI:367:ASP:OD2	2.21	0.73
45:UI:352:LYS:HZ1	46:UJ:178:THR:HA	1.53	0.73
27:2C:69:VAL:HG12	46:LJ:41:ASP:HB3	1.71	0.73
15:2X:42:LYS:HG2	45:LI:58:ALA:HB3	1.70	0.73
40:6G:144:LYS:NZ	40:6G:145:TRP:O	2.20	0.73
45:AC:288:VAL:HG11	45:AC:327:ASP:HB3	1.69	0.73
45:FC:11:GLN:NE2	46:FD:247:ASN:OD1	2.22	0.73
45:GA:55:GLU:HG3	45:GA:57:GLY:H	1.53	0.73
45:HK:326:LYS:NZ	46:HN:220:PRO:O	2.21	0.73
45:IG:100:ALA:HA	46:IH:252:LYS:HD3	1.71	0.73
45:IM:50:ASN:O	45:IM:64:ARG:NH2	2.18	0.73
46:IN:396:HIS:HA	46:IN:399:THR:HG22	1.70	0.73
46:JH:418:LEU:O	46:JH:422:TYR:HB2	1.87	0.73
46:JJ:86:ARG:HD3	46:JJ:88:ASP:HB2	1.70	0.73
46:JL:141:GLY:O	46:JL:145:SER:OG	2.05	0.73
46:JN:396:HIS:HA	46:JN:399:THR:HG22	1.68	0.73
46:KF:114:ASP:OD1	46:KF:115:SER:N	2.21	0.73
46:NF:322:SER:OG	46:NF:325:GLU:OE1	2.06	0.73
45:NK:180:ALA:HA	46:NL:350:LYS:HZ1	1.53	0.73
46:OF:8:GLN:HE21	46:OF:65:LEU:HG	1.52	0.73
45:OK:298:PRO:HG3	45:OK:308:ARG:HH12	1.51	0.73
46:RN:200:MET:HG2	46:RN:266:PHE:HB2	1.69	0.73
46:SH:54:ALA:HA	46:TH:283:ALA:HB2	1.70	0.73
45:TC:88:HIS:HB3	45:TC:91:GLN:OE1	1.88	0.73
45:TE:280:LYS:HA	45:TE:283:HIS:HD2	1.52	0.73
45:UG:55:GLU:HG3	45:UG:57:GLY:H	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UK:260:VAL:HB	46:UL:397:TRP:HZ2	1.53	0.73
34:4R:256:LEU:HD12	34:4R:356:THR:HG23	1.68	0.73
34:5R:12:LEU:HB2	34:5R:15:HIS:CD2	2.22	0.73
46:CF:293:MET:HE3	46:CF:367:PHE:HB2	1.70	0.73
45:CM:288:VAL:HG11	45:CM:327:ASP:HB3	1.70	0.73
46:GH:49:VAL:HG11	46:GH:241:ARG:HG2	1.68	0.73
45:GI:64:ARG:NH1	45:GI:129:CYS:SG	2.62	0.73
46:JJ:156:ARG:HG3	46:JJ:195:ASN:HB3	1.68	0.73
45:JK:256:GLN:HB2	46:JN:397:TRP:CZ3	2.23	0.73
45:QC:254:GLU:OE2	45:QC:258:ASN:ND2	2.19	0.73
45:QE:140:SER:OG	47:QE:501:GTP:O2B	2.05	0.73
46:QL:6:HIS:CD2	46:QL:134:GLN:HE22	2.06	0.73
46:VL:226:ASN:HD21	49:VL:501:GDP:HN1	1.33	0.73
23:IO:269:GLN:N	45:UA:282:TYR:CD2	2.56	0.73
44:8R:85:UNK:O	44:8R:87:UNK:O	2.06	0.73
46:AB:207:LEU:HB3	46:AB:225:LEU:HD22	1.70	0.73
46:BJ:67:ASP:O	46:BJ:92:PHE:HA	1.89	0.73
45:DI:11:GLN:NE2	47:DI:501:GTP:O3A	2.21	0.73
46:IN:65:LEU:HB3	46:IN:73:MET:HE2	1.71	0.73
45:KA:206:ASN:OD1	47:KA:501:GTP:N2	2.21	0.73
45:MC:157:LEU:HD22	45:MC:166:LYS:HD3	1.68	0.73
45:OK:178:SER:OG	46:OL:347:ASN:ND2	2.20	0.73
45:OM:50:ASN:O	45:OM:64:ARG:NH1	2.21	0.73
45:QA:268:MET:HG2	45:QA:380:ASN:HB3	1.70	0.73
45:RG:244:PHE:HB2	45:RG:356:ASN:HD21	1.54	0.73
46:RL:156:ARG:NH2	46:RL:159:TYR:O	2.22	0.73
46:TF:262:ARG:NH1	46:TF:421:GLU:OE1	2.22	0.73
46:VH:200:MET:HG3	46:VH:266:PHE:HB2	1.71	0.73
46:VN:68:LEU:HD12	46:VN:93:GLY:HA3	1.69	0.73
46:WJ:68:LEU:HD12	46:WJ:93:GLY:HA3	1.71	0.73
34:6R:546:ASP:HA	34:6R:549:MET:HG2	1.70	0.73
46:BF:222:TYR:O	46:BF:226:ASN:ND2	2.19	0.73
45:CC:88:HIS:HB3	45:CC:91:GLN:HE22	1.54	0.73
45:DK:175:PRO:HG3	45:DK:390:ARG:HH12	1.53	0.73
45:FE:132:LEU:O	45:FE:164:LYS:NZ	2.21	0.73
45:JA:319:TYR:HB3	45:JA:323:VAL:HG21	1.70	0.73
45:OA:326:LYS:HE3	46:OD:220:PRO:HG2	1.68	0.73
46:RB:262:ARG:NH1	46:RB:421:GLU:OE1	2.22	0.73
46:RL:83:GLN:O	46:SL:281:TYR:OH	2.07	0.73
46:SB:139:LEU:HD22	46:SB:170:VAL:HG12	1.69	0.73
46:SJ:318:ARG:HE	46:SJ:358:PRO:HG3	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:3S:121:CYS:SG	46:AN:423:GLN:NE2	2.59	0.73
34:4R:593:ASP:OD2	34:4R:598:TRP:N	2.21	0.73
45:AK:339:ARG:O	45:AK:342:GLN:NE2	2.22	0.73
46:AL:73:MET:HA	46:AL:76:VAL:HG22	1.69	0.73
46:BF:55:THR:HG23	46:CD:283:ALA:HA	1.71	0.73
45:BI:294:SER:HA	45:BI:297:GLU:HG3	1.71	0.73
46:CF:282:ARG:NE	46:CF:288:GLU:OE1	2.19	0.73
46:EB:330:MET:SD	46:EB:351:SER:OG	2.46	0.73
45:HA:288:VAL:HG11	45:HA:327:ASP:HB3	1.70	0.73
45:HG:352:LYS:NZ	45:HG:353:VAL:O	2.22	0.73
46:QF:46:ARG:NH2	45:QG:76:ASP:OD2	2.22	0.73
45:SC:260:VAL:HB	46:SD:397:TRP:HZ2	1.53	0.73
45:SE:215:ARG:NH2	45:SE:300:ASN:OD1	2.21	0.73
46:SF:113:ILE:HG12	46:SF:117:LEU:HD23	1.69	0.73
45:TI:91:GLN:HG2	45:TI:121:ARG:HD2	1.69	0.73
46:VN:213:ARG:HH12	46:VN:297:LYS:HG3	1.53	0.73
11:3S:97:ARG:NH2	46:MN:414:ASN:OD1	2.20	0.73
45:CI:175:PRO:HG3	45:CI:390:ARG:HH12	1.54	0.73
46:GJ:128:ASP:OD2	46:GJ:129:CYS:N	2.22	0.73
46:GL:190:HIS:HD2	46:GL:411:ALA:HA	1.54	0.73
45:HC:349:THR:HG1	46:HF:176:SER:HG	1.35	0.73
45:NE:221:ARG:HH11	45:NE:221:ARG:HA	1.53	0.73
46:NF:200:MET:HG3	46:NF:266:PHE:HB2	1.70	0.73
45:OA:108:TYR:O	45:OA:112:LYS:NZ	2.21	0.73
46:PJ:73:MET:HA	46:PJ:76:VAL:HG12	1.71	0.73
46:UH:282:ARG:HE	46:UH:283:ALA:H	1.35	0.73
46:VD:99:ASN:HA	46:VD:142:GLY:H	1.51	0.73
46:VJ:371:SER:O	46:VJ:422:TYR:OH	2.05	0.73
45:WM:101:ASN:HA	45:WM:144:GLY:H	1.51	0.73
10:1Q:115:LYS:HE2	45:AC:264:ARG:HH11	1.51	0.73
14:3V:125:MET:SD	46:LD:386:THR:OG1	2.46	0.73
15:3X:49:ILE:HD11	45:MM:282:TYR:CD2	2.22	0.73
37:5F:197:LEU:HD13	45:LG:393:HIS:HB2	1.70	0.73
10:5Q:60:THR:HG22	10:5Q:62:PRO:HD2	1.70	0.73
46:AJ:294:PHE:HD2	46:AJ:333:VAL:HG21	1.54	0.73
45:BC:221:ARG:HD2	46:BD:324:LYS:HZ1	1.54	0.73
45:BE:55:GLU:HG3	45:BE:57:GLY:H	1.54	0.73
45:CI:288:VAL:HG21	45:CI:327:ASP:HB3	1.70	0.73
46:CL:273:LEU:H	46:CL:292:GLN:HE22	1.37	0.73
45:DK:292:THR:HG21	45:DK:331:SER:HB3	1.70	0.73
45:FI:108:TYR:HA	45:FI:112:LYS:HE3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FM:55:GLU:HG3	45:FM:57:GLY:H	1.53	0.73
46:JJ:314:SER:HA	46:JJ:350:LYS:HB2	1.71	0.73
45:KE:224:TYR:HA	45:KE:227:LEU:HD12	1.70	0.73
46:LN:377:MET:SD	46:LN:380:ARG:NH2	2.61	0.73
46:NF:372:THR:HA	46:NF:422:TYR:HE1	1.52	0.73
45:OM:90:GLU:OE2	45:OM:121:ARG:NH1	2.21	0.73
45:RI:30:ILE:HD13	45:RI:36:MET:HE3	1.70	0.73
46:RJ:289:LEU:HD11	46:RJ:363:MET:HB3	1.71	0.73
46:SF:324:LYS:HE3	45:SG:214:ARG:HD2	1.70	0.73
46:TL:324:LYS:HD3	45:TM:222:PRO:HD2	1.70	0.73
46:UL:215:LEU:HB3	46:UL:217:LEU:HD23	1.69	0.73
45:VI:221:ARG:NH1	46:VJ:322:SER:OG	2.22	0.73
37:5G:126:LEU:O	45:OI:373:ARG:NH2	2.21	0.73
46:AN:73:MET:HA	46:AN:76:VAL:HG12	1.70	0.73
45:BC:320:ARG:NH1	45:BC:358:GLN:O	2.22	0.73
46:GF:67:ASP:O	46:GF:92:PHE:HA	1.89	0.73
46:JL:54:ALA:HA	46:KL:283:ALA:HB2	1.71	0.73
46:LL:135:ILE:HG13	46:LL:152:ILE:HD11	1.71	0.73
46:MH:1:MET:HG2	46:MH:2:ARG:H	1.52	0.73
46:NB:83:GLN:O	46:OB:281:TYR:OH	2.06	0.73
46:QB:7:ILE:HG12	46:QB:64:ILE:HD13	1.70	0.73
45:QK:141:VAL:HG11	45:QK:172:TYR:HD1	1.53	0.73
46:VD:135:ILE:HG13	46:VD:152:ILE:HD11	1.70	0.73
46:WH:7:ILE:HG22	46:WH:64:ILE:HB	1.70	0.73
46:DJ:2:ARG:HD2	46:DJ:240:LEU:HD11	1.71	0.73
45:FG:91:GLN:HG2	45:FG:121:ARG:HD2	1.70	0.73
45:HI:178:SER:OG	46:HJ:347:ASN:OD1	2.06	0.73
46:KL:114:ASP:OD2	46:KL:115:SER:N	2.22	0.73
45:MK:413:MET:HG3	45:MK:417:GLU:HG3	1.71	0.73
45:PG:221:ARG:NH2	46:PH:325:GLU:OE1	2.22	0.73
45:QK:9:VAL:HG12	45:QK:68:LEU:HB2	1.71	0.73
45:SI:76:ASP:OD1	45:SI:79:ARG:NH2	2.18	0.73
46:UL:68:LEU:HD13	46:UL:93:GLY:HA3	1.71	0.73
46:UL:213:ARG:HH12	46:UL:297:LYS:HB2	1.52	0.73
45:UM:297:GLU:OE2	45:UM:300:ASN:ND2	2.21	0.73
45:UM:326:LYS:HE2	46:UN:220:PRO:HD2	1.68	0.73
45:VC:116:ASP:OD1	45:VC:117:LEU:N	2.21	0.73
45:VG:209:ILE:HG21	45:VG:227:LEU:HG	1.71	0.73
45:WG:326:LYS:HE2	46:WJ:220:PRO:HD2	1.70	0.73
1:3A:129:PRO:HD3	46:AN:362:LYS:HE2	1.70	0.72
46:AJ:97:ALA:HB3	46:AJ:143:THR:HB	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:86:ARG:HH22	46:DF:280:GLN:HB2	1.54	0.72
46:CH:11:GLN:NE2	49:CH:501:GDP:O2A	2.21	0.72
45:CM:128:ASN:OD1	45:DM:285:GLN:NE2	2.20	0.72
46:EB:222:TYR:O	46:EB:226:ASN:ND2	2.22	0.72
45:EC:75:ILE:HD11	45:EC:92:LEU:HB2	1.71	0.72
45:EC:209:ILE:HG22	45:EC:302:MET:HB2	1.71	0.72
46:EL:73:MET:HA	46:EL:76:VAL:HG12	1.71	0.72
46:IL:73:MET:HA	46:IL:76:VAL:HG12	1.71	0.72
46:JJ:173:PRO:HG2	46:JJ:380:ARG:HD2	1.71	0.72
46:OJ:226:ASN:HD21	49:OJ:501:GDP:HN1	1.37	0.72
46:TH:226:ASN:HD21	49:TH:501:GDP:HN1	1.35	0.72
45:UG:288:VAL:HG13	45:UG:373:ARG:HH21	1.52	0.72
45:VK:178:SER:OG	45:VK:183:GLU:OE2	2.06	0.72
46:WB:4:ILE:HD11	46:WB:131:GLN:HB2	1.70	0.72
46:WJ:6:HIS:O	46:WJ:63:ALA:HA	1.89	0.72
46:WL:73:MET:HA	46:WL:76:VAL:HG12	1.71	0.72
33:4F:125:ASN:ND2	46:IL:245:GLN:OE1	2.21	0.72
45:AK:11:GLN:NE2	46:AL:247:ASN:OD1	2.22	0.72
46:CH:87:PRO:HA	46:CH:90:PHE:HD2	1.54	0.72
46:EB:258:ILE:HG13	46:EB:266:PHE:HZ	1.54	0.72
45:EC:274:PRO:HG3	45:EC:286:LEU:HD11	1.71	0.72
46:ED:323:THR:OG1	45:EE:210:TYR:OH	2.06	0.72
46:IH:156:ARG:NH1	46:IH:195:ASN:O	2.22	0.72
46:IL:109:GLY:HA2	46:IL:147:MET:HE2	1.70	0.72
46:NN:236:VAL:HG13	46:NN:237:THR:HG23	1.69	0.72
45:OC:90:GLU:OE2	45:OC:121:ARG:NH1	2.22	0.72
46:PH:207:LEU:HB3	46:PH:225:LEU:HD22	1.70	0.72
46:QB:2:ARG:HH21	45:QC:97:GLU:HB2	1.54	0.72
46:TH:86:ARG:HD2	46:TH:87:PRO:HD2	1.72	0.72
45:VI:1:MET:SD	45:VI:2:ARG:NH1	2.63	0.72
46:VJ:325:GLU:HA	46:VJ:328:GLU:HG3	1.72	0.72
34:7R:387:PRO:O	46:EB:276:ARG:NH1	2.22	0.72
46:BH:314:SER:HA	46:BH:350:LYS:HB2	1.72	0.72
45:DG:326:LYS:NZ	46:DH:220:PRO:O	2.20	0.72
45:FK:73:THR:HA	46:FL:46:ARG:HH22	1.53	0.72
46:KH:292:GLN:HG2	46:KH:298:ASN:HD22	1.54	0.72
46:KJ:313:ALA:HB3	46:KJ:349:ILE:HG22	1.68	0.72
45:QC:140:SER:OG	47:QC:501:GTP:O2B	2.06	0.72
45:TE:339:ARG:O	45:TE:342:GLN:NE2	2.23	0.72
45:TK:33:ASP:OD1	45:TK:85:GLN:NE2	2.22	0.72
46:UB:186:THR:HG22	46:UB:190:HIS:CE1	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:132:GLY:HA3	46:UF:163:ILE:O	1.88	0.72
46:UH:48:ASN:O	46:UH:62:ARG:NH1	2.21	0.72
45:VK:348:PRO:HD3	46:VN:388:MET:HE1	1.68	0.72
45:WC:116:ASP:OD1	45:WC:117:LEU:N	2.22	0.72
31:2I:46:TYR:HD2	46:GH:291:GLN:HB2	1.53	0.72
31:2I:139:ARG:NH2	46:GD:340:TYR:HB2	2.04	0.72
46:DD:86:ARG:HH21	46:ED:282:ARG:HG2	1.53	0.72
46:FH:213:ARG:O	46:FH:216:LYS:NZ	2.19	0.72
46:KB:156:ARG:HG3	46:KB:195:ASN:HB3	1.71	0.72
45:LA:36:MET:HG2	45:LA:38:SER:H	1.54	0.72
45:LM:287:SER:OG	45:LM:290:GLU:OE1	2.07	0.72
46:OB:135:ILE:HG13	46:OB:152:ILE:HD11	1.72	0.72
45:OE:256:GLN:HG2	46:OH:397:TRP:HH2	1.55	0.72
46:QD:215:LEU:HD22	46:QD:217:LEU:HD23	1.70	0.72
46:QL:6:HIS:HD2	46:QL:134:GLN:HE22	1.37	0.72
46:QL:7:ILE:HG22	46:QL:64:ILE:HB	1.70	0.72
46:SH:245:GLN:O	45:SI:11:GLN:NE2	2.22	0.72
46:UF:207:LEU:HB3	46:UF:225:LEU:HD22	1.71	0.72
46:UL:226:ASN:HD21	49:UL:501:GDP:HN1	1.36	0.72
45:WC:195:LEU:HD21	45:WC:264:ARG:HH21	1.54	0.72
45:WC:422:ARG:HH12	45:WC:426:ALA:HB2	1.53	0.72
46:CH:396:HIS:HA	46:CH:399:THR:HG22	1.70	0.72
45:FC:407:TRP:HZ2	46:FD:258:ILE:HD11	1.53	0.72
46:IB:19:LYS:NZ	46:IB:223:GLY:O	2.22	0.72
45:LK:278:ALA:HA	45:LK:281:ALA:HB3	1.71	0.72
45:PC:116:ASP:HA	45:PC:156:ARG:HH12	1.55	0.72
45:PG:214:ARG:HG2	45:PG:215:ARG:HH12	1.54	0.72
46:RB:15:GLN:NE2	49:RB:501:GDP:N7	2.36	0.72
46:SH:309:ARG:NH2	46:SH:426:GLN:O	2.20	0.72
46:SJ:11:GLN:NE2	46:SJ:12:CYS:SG	2.62	0.72
46:TJ:313:ALA:HB3	46:TJ:349:ILE:HG12	1.70	0.72
46:UB:200:MET:HG3	46:UB:266:PHE:HB2	1.71	0.72
45:VA:326:LYS:HZ1	46:VD:219:THR:HA	1.53	0.72
45:VK:69:ASP:HB3	45:VK:75:ILE:HD11	1.70	0.72
46:VL:207:LEU:HB3	46:VL:225:LEU:HD22	1.68	0.72
45:WG:55:GLU:HG3	45:WG:57:GLY:H	1.52	0.72
46:WJ:164:MET:HG3	46:WJ:197:ASP:HB2	1.72	0.72
14:2V:239:ARG:HH22	45:VE:55:GLU:HG2	1.52	0.72
25:3R:290:SER:O	46:DL:276:ARG:NH2	2.20	0.72
46:AH:58:ARG:HD2	46:BH:280:GLN:HE22	1.54	0.72
46:DD:86:ARG:CZ	46:ED:281:TYR:HB2	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HE:258:ASN:HB3	45:HE:352:LYS:HD2	1.71	0.72
46:ID:8:GLN:HE21	46:ID:65:LEU:HG	1.53	0.72
45:OC:210:TYR:CD1	46:OD:324:LYS:HE3	2.24	0.72
45:PA:215:ARG:NH2	45:PA:299:ALA:O	2.23	0.72
46:RB:86:ARG:HH22	46:SB:282:ARG:HD2	1.53	0.72
46:SJ:135:ILE:HG13	46:SJ:152:ILE:HD11	1.71	0.72
46:UF:345:ILE:HA	45:UG:398:MET:HE1	1.71	0.72
46:UH:215:LEU:HB3	46:UH:217:LEU:HD23	1.72	0.72
46:UL:3:GLU:HG3	46:UL:49:VAL:HA	1.72	0.72
46:UL:135:ILE:HG13	46:UL:152:ILE:HD11	1.72	0.72
46:VF:100:ASN:HD22	46:VF:103:LYS:HG3	1.55	0.72
31:3I:197:GLN:NE2	45:FK:123:ARG:O	2.22	0.72
34:5R:12:LEU:HB2	34:5R:15:HIS:HD2	1.54	0.72
46:AF:73:MET:HA	46:AF:76:VAL:HG12	1.70	0.72
46:AF:372:THR:HA	46:AF:422:TYR:HE2	1.53	0.72
46:DL:350:LYS:HE3	45:DM:180:ALA:HA	1.71	0.72
45:FG:292:THR:HG21	45:FG:331:SER:HB3	1.70	0.72
45:FG:394:LYS:NZ	46:FH:346:PRO:O	2.23	0.72
45:HE:316:SER:HA	45:HE:352:LYS:HB2	1.72	0.72
45:HI:292:THR:HG21	45:HI:331:SER:HB3	1.71	0.72
45:HK:414:GLU:HB3	45:HK:417:GLU:HG2	1.71	0.72
45:IE:326:LYS:HD3	46:IH:220:PRO:HD2	1.71	0.72
46:KF:218:THR:HG23	46:KF:219:THR:HG23	1.72	0.72
45:KI:292:THR:HG21	45:KI:331:SER:HB3	1.69	0.72
45:NI:55:GLU:HG3	45:NI:57:GLY:H	1.55	0.72
46:NJ:213:ARG:HH22	46:NJ:297:LYS:HB3	1.52	0.72
45:NM:301:MET:HG3	45:NM:303:ALA:H	1.55	0.72
46:OH:178:THR:HG22	46:OH:180:VAL:H	1.55	0.72
46:QH:257:LEU:HD11	46:QH:314:SER:HB2	1.72	0.72
45:QI:244:PHE:HB2	45:QI:356:ASN:HD21	1.55	0.72
46:RJ:15:GLN:NE2	49:RJ:501:GDP:N7	2.37	0.72
45:TE:287:SER:N	45:TE:290:GLU:OE2	2.20	0.72
35:4S:209:ARG:HH22	46:WD:118:ASP:HB2	1.53	0.72
40:6G:136:PRO:O	45:UI:123:ARG:NH1	2.23	0.72
34:6R:296:GLY:HA3	46:DN:276:ARG:HB3	1.72	0.72
45:AA:288:VAL:HG11	45:AA:327:ASP:HB3	1.70	0.72
45:CA:288:VAL:HG11	45:CA:327:ASP:HB3	1.71	0.72
46:CD:248:SER:HA	46:CD:252:LYS:HD2	1.70	0.72
46:KH:260:PHE:HB2	46:KH:263:LEU:HD13	1.72	0.72
45:LI:292:THR:HG21	45:LI:331:SER:HB3	1.69	0.72
46:ND:178:THR:HB	46:ND:181:GLU:HG3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NG:292:THR:HG21	45:NG:331:SER:HB3	1.70	0.72
46:NJ:236:VAL:HG23	46:NJ:237:THR:HG23	1.72	0.72
46:PD:319:GLY:HA2	46:PD:357:PRO:HG3	1.71	0.72
46:PJ:217:LEU:HD23	46:PJ:219:THR:H	1.54	0.72
45:PK:1:MET:SD	46:PN:94:GLN:NE2	2.63	0.72
45:PK:15:GLN:NE2	47:PK:501:GTP:O6	2.22	0.72
46:RD:322:SER:OG	46:RD:325:GLU:OE1	2.07	0.72
46:RH:12:CYS:HA	46:RH:15:GLN:HE21	1.53	0.72
45:TE:288:VAL:HG11	45:TE:327:ASP:HB3	1.71	0.72
46:TL:42:LEU:HB3	46:TL:242:PHE:HE1	1.55	0.72
46:UF:215:LEU:HB3	46:UF:217:LEU:HD23	1.70	0.72
46:WF:218:THR:HG23	46:WF:219:THR:HG23	1.71	0.72
17:1F:158:ASN:ND2	46:HL:337:ASN:OD1	2.22	0.72
1:2A:129:PRO:HD3	46:AJ:362:LYS:HG2	1.70	0.72
16:2B:62:THR:HA	45:LK:84:ARG:HH22	1.53	0.72
37:5E:120:GLU:HG2	37:5E:121:GLU:H	1.54	0.72
46:CH:330:MET:HB3	46:CH:349:ILE:HD12	1.72	0.72
45:FG:76:ASP:OD1	45:FG:79:ARG:NH2	2.22	0.72
46:HH:73:MET:HA	46:HH:76:VAL:HG12	1.72	0.72
45:MA:47:ASP:OD1	45:MA:50:ASN:ND2	2.23	0.72
45:MC:292:THR:HG21	45:MC:331:SER:HB2	1.71	0.72
45:MG:406:HIS:HA	45:MG:409:VAL:HG12	1.70	0.72
46:ML:73:MET:HA	46:ML:76:VAL:HG12	1.70	0.72
45:MM:282:TYR:OH	45:MM:370:LYS:O	2.07	0.72
45:PE:11:GLN:NE2	46:PF:247:ASN:OD1	2.22	0.72
45:VK:261:PRO:HD2	45:VK:262:TYR:N	2.04	0.72
45:WE:256:GLN:HG2	45:WE:260:VAL:HB	1.72	0.72
45:WG:9:VAL:HG12	45:WG:68:LEU:HB2	1.70	0.72
46:WJ:135:ILE:HG13	46:WJ:152:ILE:HD11	1.72	0.72
45:DC:140:SER:OG	47:DC:501:GTP:O2B	2.08	0.72
36:5D:87:ARG:NH2	45:NM:364:PRO:O	2.23	0.72
46:AJ:178:THR:HG22	46:AJ:180:VAL:H	1.52	0.72
46:AN:148:GLY:O	46:AN:152:ILE:HG12	1.90	0.72
46:CB:49:VAL:HG13	46:CB:50:TYR:HD2	1.54	0.72
46:CD:207:LEU:HB3	46:CD:225:LEU:HD22	1.72	0.72
45:DI:141:VAL:HG11	45:DI:172:TYR:HD1	1.54	0.72
45:GC:311:LYS:NZ	45:GC:342:GLN:OE1	2.20	0.72
46:GF:285:THR:N	46:GF:288:GLU:OE2	2.23	0.72
45:JA:220:GLU:HG3	45:JA:221:ARG:HG2	1.70	0.72
45:JC:90:GLU:HG3	45:JC:121:ARG:HH12	1.55	0.72
46:KN:213:ARG:HH12	46:KN:297:LYS:HE2	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LN:285:THR:OG1	46:LN:288:GLU:OE1	2.08	0.72
45:NA:73:THR:OG1	46:NB:46:ARG:NH2	2.22	0.72
45:NE:141:VAL:HG11	45:NE:172:TYR:HD1	1.55	0.72
46:PF:8:GLN:HE21	46:PF:65:LEU:HD22	1.53	0.72
46:TF:258:ILE:HD11	45:TG:407:TRP:HZ2	1.54	0.72
45:TK:288:VAL:HG21	45:TK:327:ASP:HB3	1.70	0.72
45:VI:22:GLU:OE1	45:VI:83:TYR:OH	2.07	0.72
45:WK:41:THR:HG22	45:WK:42:ILE:H	1.54	0.72
11:3S:140:ARG:CZ	10:5Q:72:LYS:HD2	2.20	0.71
45:JA:115:VAL:HG11	45:JA:152:LEU:HD22	1.72	0.71
46:LB:86:ARG:HD3	46:LB:87:PRO:HD2	1.70	0.71
45:NC:271:SER:OG	45:NC:301:MET:SD	2.47	0.71
45:NC:292:THR:HG21	45:NC:331:SER:HB3	1.72	0.71
46:OB:276:ARG:NH2	46:OB:279:GLN:OE1	2.22	0.71
46:QB:86:ARG:HE	46:QB:87:PRO:HD2	1.54	0.71
46:QF:207:LEU:HB3	46:QF:225:LEU:HD22	1.70	0.71
45:QG:195:LEU:HD21	45:QG:264:ARG:HE	1.55	0.71
46:SJ:163:ILE:HD12	46:SJ:250:LEU:HD22	1.71	0.71
45:UK:2:ARG:HH12	46:UL:70:PRO:HD2	1.54	0.71
45:WI:326:LYS:HD2	46:WL:208:TYR:HB3	1.71	0.71
33:4F:198:LYS:NZ	45:IM:217:LEU:O	2.23	0.71
34:5R:284:THR:HG22	34:5R:308:LYS:HG2	1.71	0.71
45:AA:69:ASP:OD1	45:AA:71:GLU:N	2.23	0.71
46:CB:11:GLN:NE2	49:CB:501:GDP:O1A	2.22	0.71
46:CB:135:ILE:HG13	46:CB:152:ILE:HD11	1.72	0.71
45:CG:212:ILE:HD13	45:CG:215:ARG:HH22	1.55	0.71
45:DI:288:VAL:HG11	45:DI:327:ASP:HB3	1.71	0.71
46:DL:83:GLN:O	46:EL:281:TYR:OH	2.08	0.71
46:EB:1:MET:O	46:EB:46:ARG:NH2	2.22	0.71
46:HN:304:ASP:HB3	46:HN:307:HIS:CE1	2.24	0.71
45:NK:54:SER:HB3	45:NK:64:ARG:HE	1.54	0.71
45:NM:55:GLU:HG3	45:NM:57:GLY:H	1.53	0.71
46:PD:11:GLN:O	46:PD:15:GLN:NE2	2.23	0.71
46:UB:258:ILE:HD12	46:UB:264:HIS:HB3	1.72	0.71
45:WI:292:THR:HG21	45:WI:331:SER:HB3	1.73	0.71
3:0C:37:ILE:HD11	45:DI:79:ARG:HB2	1.72	0.71
37:5E:69:LYS:NZ	37:5E:70:GLU:O	2.22	0.71
37:5F:147:GLN:HA	37:5F:150:ILE:HG22	1.70	0.71
34:7R:137:SER:HA	46:BD:276:ARG:HH21	1.55	0.71
45:AE:178:SER:OG	46:AF:347:ASN:ND2	2.23	0.71
46:CD:318:ARG:HB2	46:CD:364:ALA:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FA:157:LEU:HD22	45:FA:166:LYS:HD3	1.71	0.71
46:JB:200:MET:HG2	46:JB:266:PHE:HB2	1.71	0.71
45:JE:31:GLN:HE22	45:JE:37:PRO:HG3	1.55	0.71
45:KA:15:GLN:NE2	47:KA:501:GTP:O6	2.23	0.71
45:KA:64:ARG:NH1	45:KA:129:CYS:SG	2.63	0.71
46:LB:257:LEU:HD21	46:LB:314:SER:HB2	1.72	0.71
45:LC:11:GLN:NE2	46:LD:245:GLN:O	2.24	0.71
45:MK:259:LEU:HD21	45:MK:316:SER:HB3	1.73	0.71
46:NB:187:LEU:O	46:NB:191:GLN:NE2	2.23	0.71
46:PH:207:LEU:HD13	46:PH:225:LEU:HB3	1.71	0.71
46:QB:169:VAL:HG12	46:QB:202:ILE:HB	1.73	0.71
46:QL:6:HIS:CD2	46:QL:8:GLN:HE22	2.07	0.71
45:QM:21:TRP:HA	45:QM:24:PHE:HB2	1.70	0.71
45:RM:227:LEU:HD11	47:RM:501:GTP:HN1	1.56	0.71
46:TB:334:GLN:HA	46:TB:341:PHE:HE2	1.56	0.71
45:TK:131:GLY:O	45:TK:133:GLN:NE2	2.23	0.71
46:TN:100:ASN:ND2	46:TN:401:GLU:OE1	2.23	0.71
46:VN:83:GLN:HE21	46:VN:84:LEU:HD22	1.55	0.71
46:WB:276:ARG:O	46:WB:279:GLN:NE2	2.23	0.71
2:0B:223:LYS:HE2	45:JI:357:TYR:CD2	2.26	0.71
25:2R:312:GLN:HE22	46:CH:361:LEU:N	1.88	0.71
10:3Q:36:ARG:HG3	35:5S:204:ILE:HD13	1.72	0.71
25:3R:380:PRO:HB2	46:EL:279:GLN:HE21	1.54	0.71
45:BC:326:LYS:HE3	46:BF:219:THR:HA	1.72	0.71
45:BK:219:ILE:HG22	45:BK:222:PRO:HD3	1.70	0.71
46:CB:73:MET:HA	46:CB:76:VAL:HG12	1.72	0.71
46:CF:222:TYR:O	46:CF:226:ASN:ND2	2.21	0.71
45:GE:60:LYS:NZ	45:GE:85:GLN:O	2.22	0.71
45:HE:244:PHE:HB2	45:HE:356:ASN:HD21	1.55	0.71
46:IL:213:ARG:HD2	46:IL:297:LYS:HD3	1.72	0.71
45:JG:65:ALA:O	45:JG:91:GLN:NE2	2.24	0.71
46:LD:309:ARG:NH1	46:LD:426:GLN:O	2.23	0.71
46:LF:200:MET:HG2	46:LF:266:PHE:HB2	1.70	0.71
46:LJ:207:LEU:HB3	46:LJ:225:LEU:HD22	1.72	0.71
46:NB:318:ARG:HG2	46:NB:357:PRO:HA	1.71	0.71
45:OA:207:GLU:HB2	45:OA:304:LYS:HD3	1.71	0.71
45:QG:119:LEU:HG	45:QG:156:ARG:HE	1.54	0.71
45:QI:9:VAL:HG12	45:QI:68:LEU:HB2	1.72	0.71
45:QK:258:ASN:HB3	45:QK:352:LYS:HD2	1.71	0.71
46:RH:5:VAL:HG12	46:RH:62:ARG:HD3	1.72	0.71
46:SL:6:HIS:HE1	46:SL:8:GLN:HB3	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TF:149:THR:OG1	46:TF:191:GLN:OE1	2.08	0.71
46:TL:119:VAL:HA	46:TL:122:LYS:HE3	1.72	0.71
45:WA:258:ASN:HD21	45:WA:352:LYS:HE3	1.53	0.71
46:WD:49:VAL:HG11	46:WD:241:ARG:HG2	1.71	0.71
20:1K:212:ARG:NH1	45:GA:372:MET:SD	2.62	0.71
23:2O:406:ARG:HG3	46:VD:276:ARG:NH2	2.06	0.71
25:3R:300:LYS:NZ	46:CL:79:GLY:HA2	2.06	0.71
11:3S:17:LYS:HE3	46:WN:92:PHE:HE2	1.54	0.71
45:AE:259:LEU:HD11	45:AE:316:SER:HB3	1.70	0.71
45:BI:292:THR:HG21	45:BI:331:SER:HB3	1.73	0.71
46:ED:73:MET:HA	46:ED:76:VAL:HG12	1.72	0.71
45:EM:271:SER:OG	45:EM:301:MET:SD	2.49	0.71
45:HK:27:GLU:OE1	45:HK:243:ARG:NH1	2.23	0.71
45:JI:90:GLU:HG3	45:KI:280:LYS:HZ1	1.55	0.71
45:KI:128:ASN:C	45:KI:128:ASN:HD22	1.93	0.71
45:MI:96:LYS:NZ	46:MJ:1:MET:SD	2.62	0.71
46:ON:215:LEU:HB3	46:ON:217:LEU:HD23	1.71	0.71
46:PN:257:LEU:HD11	46:PN:314:SER:HB3	1.72	0.71
45:RE:254:GLU:OE2	45:RE:258:ASN:ND2	2.23	0.71
46:RN:139:LEU:HD22	46:RN:170:VAL:HG12	1.73	0.71
45:SI:169:PHE:HB3	45:SI:204:LEU:HD11	1.72	0.71
46:TD:68:LEU:HD13	46:TD:93:GLY:HA3	1.72	0.71
46:UB:223:GLY:O	46:UB:227:HIS:ND1	2.23	0.71
45:VI:326:LYS:HG2	46:VL:220:PRO:HG2	1.72	0.71
45:WE:215:ARG:HH12	45:WE:299:ALA:HB1	1.55	0.71
46:WH:16:ILE:HD12	46:WH:229:VAL:HG11	1.73	0.71
35:4S:109:LEU:HD21	35:4S:164:LYS:HG3	1.70	0.71
37:5E:83:LEU:HD11	45:KA:405:VAL:HB	1.73	0.71
46:BH:4:ILE:HD11	46:BH:131:GLN:HB2	1.73	0.71
46:DJ:281:TYR:HB3	46:DJ:282:ARG:HH21	1.55	0.71
46:DL:371:SER:O	46:DL:422:TYR:OH	2.07	0.71
45:GA:254:GLU:HG2	46:GD:98:GLY:HA2	1.72	0.71
45:IK:175:PRO:HA	45:IK:390:ARG:NH1	2.04	0.71
46:IN:68:LEU:HB3	46:IN:96:GLY:HA2	1.72	0.71
46:LD:107:THR:OG1	46:LD:108:GLU:OE1	2.09	0.71
46:MB:73:MET:HA	46:MB:76:VAL:HG12	1.73	0.71
45:NI:72:PRO:HD2	46:NJ:2:ARG:HH21	1.55	0.71
46:OD:164:MET:SD	46:OD:197:ASP:N	2.61	0.71
45:OM:174:SER:OG	45:OM:206:ASN:OD1	2.09	0.71
46:QB:299:MET:HE3	46:QB:305:PRO:HD3	1.70	0.71
46:QD:200:MET:HE2	46:QD:266:PHE:HB2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QI:2:ARG:NH1	46:QJ:69:GLU:OE2	2.23	0.71
46:TF:226:ASN:HD21	49:TF:501:GDP:HN1	1.37	0.71
46:VB:91:VAL:HG21	46:VB:116:VAL:HG12	1.72	0.71
45:VE:287:SER:N	45:VE:290:GLU:OE2	2.23	0.71
36:5D:89:TYR:HD2	45:NM:364:PRO:HB3	1.54	0.71
36:5D:90:GLN:HE21	36:5D:98:LEU:HG	1.55	0.71
40:6G:173:GLU:OE1	40:6G:177:ARG:NH1	2.23	0.71
34:6R:474:MET:SD	34:6R:476:HIS:ND1	2.64	0.71
46:DJ:200:MET:HG3	46:DJ:266:PHE:HB2	1.70	0.71
45:SM:220:GLU:OE2	45:SM:221:ARG:NH1	2.24	0.71
45:TK:188:ILE:HD12	45:TK:425:LEU:HD11	1.72	0.71
45:VK:76:ASP:OD2	46:VL:46:ARG:NH2	2.23	0.71
45:VK:173:PRO:O	45:VK:390:ARG:NH2	2.24	0.71
46:WN:66:MET:HE1	46:WN:147:MET:HG2	1.73	0.71
45:AA:69:ASP:OD1	45:AA:70:LEU:N	2.24	0.71
45:AA:101:ASN:HA	45:AA:144:GLY:H	1.56	0.71
46:AB:100:ASN:ND2	46:AB:401:GLU:OE1	2.24	0.71
46:BD:222:TYR:O	46:BD:226:ASN:ND2	2.20	0.71
46:BH:276:ARG:HA	46:BH:279:GLN:HG2	1.72	0.71
45:BI:55:GLU:HG3	45:BI:57:GLY:H	1.55	0.71
45:BK:210:TYR:HE1	45:BK:227:LEU:HD11	1.55	0.71
46:CD:371:SER:O	46:CD:422:TYR:OH	2.09	0.71
45:CK:244:PHE:HB2	45:CK:356:ASN:HD21	1.55	0.71
45:EM:377:MET:HE1	45:EM:379:SER:HB3	1.73	0.71
45:FK:288:VAL:HG11	45:FK:327:ASP:HB3	1.72	0.71
45:GC:109:THR:HG22	45:GC:110:ILE:HG23	1.72	0.71
46:GH:68:LEU:HD21	46:GH:147:MET:HE3	1.70	0.71
45:GM:221:ARG:NH1	46:GN:322:SER:OG	2.23	0.71
46:JF:54:ALA:HA	46:KF:283:ALA:HB2	1.72	0.71
45:KM:414:GLU:HG2	45:KM:416:GLY:H	1.55	0.71
46:LN:135:ILE:HG13	46:LN:152:ILE:HD11	1.70	0.71
46:NN:130:LEU:HD22	46:NN:162:ARG:HG3	1.73	0.71
46:OF:83:GLN:O	46:PF:281:TYR:OH	2.07	0.71
45:PA:51:THR:O	45:PA:64:ARG:NH1	2.22	0.71
46:PD:86:ARG:HH21	46:PD:87:PRO:HG2	1.56	0.71
46:QH:322:SER:OG	46:QH:325:GLU:OE1	2.07	0.71
45:VA:399:TYR:O	45:VA:402:ARG:NH1	2.23	0.71
11:OS:278:ARG:HH22	46:WB:119:VAL:HG13	1.53	0.71
14:2V:91:GLY:HA3	46:LF:194:GLU:HB3	1.73	0.71
36:5C:68:ASP:OD1	37:5G:69:LYS:NZ	2.19	0.71
40:6G:166:PHE:CE2	46:VH:212:PHE:HB3	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GG:221:ARG:NH1	46:GH:325:GLU:OE2	2.24	0.71
45:HI:2:ARG:HB3	45:HI:133:GLN:HE22	1.55	0.71
45:IG:121:ARG:HH12	45:IG:124:LYS:HE3	1.56	0.71
45:IM:11:GLN:NE2	47:IM:501:GTP:O3A	2.24	0.71
46:JH:217:LEU:HD23	46:JH:219:THR:H	1.56	0.71
45:JK:406:HIS:HA	45:JK:409:VAL:HG12	1.73	0.71
46:KL:207:LEU:HB3	46:KL:225:LEU:HD22	1.72	0.71
45:OI:1:MET:SD	46:OL:94:GLN:NE2	2.64	0.71
45:RA:215:ARG:NH2	45:RA:300:ASN:OD1	2.23	0.71
46:SF:268:ILE:HG22	46:SF:368:VAL:HG22	1.73	0.71
45:UI:88:HIS:CE1	45:UI:90:GLU:HG2	2.26	0.71
45:UK:352:LYS:HZ1	46:UL:178:THR:HA	1.55	0.71
45:UM:101:ASN:HA	45:UM:144:GLY:H	1.55	0.71
46:WB:48:ASN:O	46:WB:62:ARG:NH1	2.22	0.71
11:1S:184:PRO:HG3	45:WC:127:ASP:HB3	1.72	0.71
21:2L:658:ARG:NH2	46:BN:41:ASP:O	2.24	0.71
45:AM:55:GLU:HG3	45:AM:57:GLY:H	1.54	0.71
45:CI:180:ALA:HB3	45:CI:183:GLU:HG3	1.73	0.71
46:CJ:325:GLU:OE2	45:CK:221:ARG:NH1	2.23	0.71
46:DH:6:HIS:O	46:DH:63:ALA:HA	1.91	0.71
46:DH:67:ASP:O	46:DH:92:PHE:HA	1.91	0.71
46:DL:350:LYS:HZ1	45:DM:181:VAL:H	1.39	0.71
46:EH:11:GLN:NE2	49:EH:501:GDP:O1A	2.23	0.71
45:IG:242:LEU:HD11	45:IG:252:ILE:HD11	1.73	0.71
46:ND:262:ARG:NH2	46:ND:414:ASN:OD1	2.24	0.71
45:PA:352:LYS:HE2	46:PD:179:VAL:HG22	1.73	0.71
45:PK:326:LYS:HE2	46:PN:220:PRO:HD2	1.72	0.71
45:RE:387:VAL:HG12	45:RE:390:ARG:HH22	1.55	0.71
46:RF:223:GLY:O	46:RF:227:HIS:ND1	2.23	0.71
46:TF:32:PRO:O	46:TF:83:GLN:NE2	2.22	0.71
45:TG:392:ASP:OD1	45:TG:422:ARG:NH1	2.24	0.71
46:TL:271:ALA:HB3	46:TL:365:VAL:HB	1.73	0.71
45:VA:221:ARG:NH1	46:VB:325:GLU:OE2	2.24	0.71
45:WA:11:GLN:NE2	45:WA:71:GLU:OE2	2.24	0.71
45:WE:288:VAL:HG11	45:WE:327:ASP:HB3	1.70	0.71
45:WG:292:THR:HG21	45:WG:331:SER:HB3	1.71	0.71
17:1F:21:GLN:HE22	46:HL:320:ARG:HD3	1.55	0.70
19:1J:315:PHE:HB2	45:IK:282:TYR:CE2	2.26	0.70
20:2K:318:GLN:OE1	45:GI:370:LYS:NZ	2.24	0.70
35:5S:126:GLU:OE1	35:5S:130:ARG:NH2	2.21	0.70
34:6R:455:VAL:HB	34:6R:471:LEU:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BG:31:GLN:HE22	45:BG:37:PRO:HG3	1.55	0.70
45:EM:65:ALA:O	45:EM:121:ARG:NH2	2.22	0.70
45:FK:132:LEU:HD23	45:FK:164:LYS:HE2	1.73	0.70
46:HJ:68:LEU:HB3	46:HJ:96:GLY:HA2	1.73	0.70
45:IG:288:VAL:HG21	45:IG:327:ASP:HB3	1.73	0.70
46:IJ:6:HIS:CD2	46:IJ:134:GLN:HE22	2.08	0.70
46:IJ:135:ILE:HG13	46:IJ:152:ILE:HD11	1.73	0.70
46:MD:73:MET:HA	46:MD:76:VAL:HG12	1.73	0.70
45:OA:184:PRO:HB3	45:OA:394:LYS:HG3	1.72	0.70
45:PK:175:PRO:HG3	45:PK:390:ARG:HH12	1.56	0.70
46:QH:83:GLN:O	46:RH:281:TYR:OH	2.08	0.70
45:TC:260:VAL:HB	46:TD:397:TRP:HZ2	1.54	0.70
45:UI:292:THR:HG21	45:UI:331:SER:HB3	1.73	0.70
46:UJ:350:LYS:HZ3	45:UK:181:VAL:N	1.88	0.70
46:WF:273:LEU:H	46:WF:292:GLN:HE22	1.39	0.70
45:WK:292:THR:HG21	45:WK:331:SER:HB3	1.70	0.70
46:WN:187:LEU:O	46:WN:191:GLN:NE2	2.24	0.70
34:4R:450:ASP:OD2	34:4R:452:THR:OG1	2.07	0.70
37:5F:123:ARG:HA	45:OE:370:LYS:HE2	1.73	0.70
46:AF:77:ARG:HH12	46:AF:90:PHE:HE2	1.39	0.70
45:BA:76:ASP:OD2	46:BB:46:ARG:NH2	2.23	0.70
46:BL:73:MET:HA	46:BL:76:VAL:HG12	1.73	0.70
46:CJ:222:TYR:O	46:CJ:226:ASN:ND2	2.24	0.70
46:DL:252:LYS:O	46:DL:256:ASN:HB2	1.92	0.70
45:DM:271:SER:OG	45:DM:301:MET:SD	2.49	0.70
46:IF:273:LEU:H	46:IF:292:GLN:HE22	1.36	0.70
45:II:210:TYR:CE1	46:IJ:324:LYS:HD3	2.26	0.70
46:JL:396:HIS:HA	46:JL:399:THR:HG22	1.71	0.70
46:KJ:334:GLN:HE21	46:KJ:349:ILE:HG12	1.55	0.70
46:KL:49:VAL:HG11	46:KL:241:ARG:HG2	1.72	0.70
45:LM:140:SER:OG	47:LM:501:GTP:O2B	2.08	0.70
46:MH:209:ASP:OD1	46:MH:213:ARG:NH1	2.24	0.70
45:MI:11:GLN:NE2	46:MJ:245:GLN:O	2.23	0.70
46:MJ:11:GLN:NE2	46:MJ:12:CYS:SG	2.64	0.70
45:PM:210:TYR:CE2	46:PN:324:LYS:HG3	2.26	0.70
46:QH:135:ILE:HG13	46:QH:152:ILE:HD11	1.72	0.70
45:RM:108:TYR:HA	45:RM:112:LYS:HE3	1.71	0.70
46:UL:187:LEU:O	46:UL:191:GLN:NE2	2.23	0.70
45:VG:326:LYS:HZ3	46:VJ:220:PRO:HD2	1.55	0.70
45:WC:114:ILE:HD12	45:WC:117:LEU:HD13	1.73	0.70
46:WD:319:GLY:HA2	46:WD:357:PRO:HD3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:101:ASN:ND2	34:5R:60:GLY:O	2.20	0.70
25:3R:454:ARG:HH21	46:FL:218:THR:HB	1.53	0.70
45:BA:79:ARG:HH21	45:BA:92:LEU:HB2	1.55	0.70
46:DF:347:ASN:ND2	45:DG:180:ALA:O	2.25	0.70
46:EL:19:LYS:HG3	46:EL:226:ASN:HB3	1.71	0.70
45:GC:288:VAL:HG11	45:GC:327:ASP:HB3	1.71	0.70
45:IE:89:PRO:HD3	46:JF:281:TYR:HD1	1.55	0.70
46:IF:222:TYR:O	46:IF:226:ASN:ND2	2.20	0.70
46:JJ:248:SER:HA	46:JJ:252:LYS:HD3	1.72	0.70
45:JM:216:ASN:ND2	45:JM:275:ILE:O	2.23	0.70
45:LG:406:HIS:HA	45:LG:409:VAL:HG12	1.73	0.70
45:MG:285:GLN:NE2	45:MG:290:GLU:OE1	2.25	0.70
46:RB:8:GLN:HE21	46:RB:65:LEU:HG	1.56	0.70
45:TI:60:LYS:HZ1	45:UI:282:TYR:HD1	1.39	0.70
46:UL:6:HIS:NE2	46:UL:8:GLN:OE1	2.22	0.70
46:VJ:207:LEU:HB3	46:VJ:225:LEU:HD22	1.73	0.70
4:0D:55:GLY:H	45:EC:221:ARG:HE	1.37	0.70
16:1B:62:THR:HA	45:LC:84:ARG:HH22	1.55	0.70
24:1P:200:LEU:HD21	46:TH:276:ARG:HD3	1.71	0.70
23:2O:453:ARG:HH12	46:UB:56:GLY:HA3	1.55	0.70
31:3I:260:MET:N	46:FJ:125:GLU:OE2	2.21	0.70
34:5R:306:ARG:NH2	34:5R:307:LYS:O	2.24	0.70
46:DD:49:VAL:HG21	46:DD:241:ARG:HG2	1.73	0.70
46:DD:99:ASN:HD21	45:DC:258:ASN:HD21	1.37	0.70
46:EB:331:LEU:HD12	46:EB:334:GLN:HE21	1.56	0.70
45:JM:396:ASP:HA	45:JM:399:TYR:HB3	1.73	0.70
46:JN:344:TRP:HD1	46:JN:345:ILE:HG23	1.55	0.70
46:KL:61:PRO:HG2	46:KL:85:PHE:HD1	1.57	0.70
46:NL:218:THR:HG23	46:NL:219:THR:HG23	1.72	0.70
45:NM:221:ARG:HA	46:NN:324:LYS:HZ1	1.57	0.70
46:PH:273:LEU:H	46:PH:292:GLN:HE22	1.38	0.70
46:QF:139:LEU:HD22	46:QF:170:VAL:HG12	1.72	0.70
46:QN:330:MET:HE2	46:QN:349:ILE:HD13	1.73	0.70
46:RJ:12:CYS:O	46:RJ:16:ILE:HG13	1.91	0.70
45:TI:27:GLU:HB3	45:TI:361:THR:HG21	1.72	0.70
45:VI:326:LYS:HG3	46:VL:208:TYR:CE2	2.26	0.70
45:WK:120:ASP:OD2	45:WK:121:ARG:NH2	2.24	0.70
45:WK:244:PHE:HB2	45:WK:356:ASN:HD21	1.55	0.70
46:WL:288:GLU:HA	46:WL:291:GLN:HG3	1.73	0.70
1:3A:124:LEU:HB3	46:AN:279:GLN:HE22	1.53	0.70
46:BN:87:PRO:HA	46:BN:90:PHE:HD2	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:422:ARG:HH12	45:DK:426:ALA:HB2	1.56	0.70
45:JC:140:SER:OG	47:JC:501:GTP:O2B	2.10	0.70
46:JF:190:HIS:HD2	46:JF:411:ALA:HA	1.56	0.70
46:JL:66:MET:HE3	46:JL:116:VAL:HG21	1.74	0.70
45:ME:282:TYR:OH	45:ME:370:LYS:O	2.08	0.70
46:NB:119:VAL:HA	46:NB:122:LYS:HE2	1.74	0.70
46:NB:229:VAL:O	46:NB:233:MET:HG3	1.91	0.70
45:NE:221:ARG:NH1	46:NF:325:GLU:OE2	2.25	0.70
45:NM:371:VAL:HG12	45:NM:373:ARG:H	1.56	0.70
45:PA:11:GLN:O	45:PA:15:GLN:NE2	2.24	0.70
46:QB:51:TYR:HB3	46:QB:59:TYR:HB3	1.73	0.70
46:SD:173:PRO:HG2	46:SD:380:ARG:HE	1.56	0.70
45:SM:202:VAL:HG12	45:SM:268:MET:HB2	1.74	0.70
46:UN:10:GLY:O	46:UN:14:ASN:ND2	2.24	0.70
45:VE:145:THR:OG1	47:VE:501:GTP:O1B	2.09	0.70
46:VH:135:ILE:HG13	46:VH:152:ILE:HD11	1.72	0.70
46:VN:73:MET:HA	46:VN:76:VAL:HG12	1.74	0.70
20:1K:15:ASN:ND2	45:NC:357:TYR:O	2.25	0.70
34:4R:33:LEU:HB2	46:LF:92:PHE:HE2	1.55	0.70
46:BH:73:MET:HA	46:BH:76:VAL:HG12	1.73	0.70
46:CD:285:THR:N	46:CD:288:GLU:OE2	2.19	0.70
46:EF:166:THR:OG1	46:EF:199:CYS:SG	2.47	0.70
46:EL:350:LYS:NZ	46:EL:352:SER:OG	2.24	0.70
45:FA:203:MET:HE3	45:FA:267:PHE:HB3	1.73	0.70
46:FF:67:ASP:O	46:FF:92:PHE:HA	1.89	0.70
46:GF:49:VAL:HG11	46:GF:241:ARG:HG2	1.74	0.70
45:HK:226:ASN:ND2	45:HK:367:ASP:OD2	2.25	0.70
45:JC:269:LEU:HD22	45:JC:384:ILE:HD11	1.73	0.70
45:MA:402:ARG:NH2	45:MA:415:GLU:OE2	2.23	0.70
45:MK:11:GLN:NE2	46:ML:245:GLN:O	2.23	0.70
47:OG:501:GTP:O1G	46:OH:252:LYS:NZ	2.24	0.70
46:PD:50:TYR:HE2	46:PD:241:ARG:HD3	1.56	0.70
46:PH:226:ASN:HD21	49:PH:501:GDP:HN1	1.37	0.70
45:QG:76:ASP:OD1	45:QG:79:ARG:NH2	2.25	0.70
46:QL:54:ALA:HA	46:RL:283:ALA:HB2	1.74	0.70
46:SD:67:ASP:O	46:SD:92:PHE:HA	1.91	0.70
46:TD:321:MET:HB2	45:TE:221:ARG:NH2	2.07	0.70
46:UH:3:GLU:HG3	46:UH:49:VAL:HA	1.74	0.70
45:VK:261:PRO:HD2	45:VK:262:TYR:H	1.55	0.70
45:WA:55:GLU:HG3	45:WA:57:GLY:H	1.56	0.70
46:WB:77:ARG:HH21	46:WB:83:GLN:HE22	1.38	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WC:319:TYR:HB3	45:WC:323:VAL:HG11	1.74	0.70
40:6G:93:LYS:NZ	45:UK:113:GLU:OE2	2.24	0.70
45:AC:210:TYR:OH	46:AD:323:THR:OG1	2.06	0.70
46:CB:386:THR:OG1	46:CB:390:ARG:NH1	2.24	0.70
46:CD:324:LYS:HG2	45:CE:222:PRO:HG2	1.73	0.70
46:CH:273:LEU:H	46:CH:292:GLN:HE22	1.40	0.70
45:EK:64:ARG:NH1	45:EK:129:CYS:SG	2.65	0.70
45:EK:76:ASP:OD1	45:EK:79:ARG:NH2	2.25	0.70
46:FN:282:ARG:NH2	46:FN:292:GLN:OE1	2.24	0.70
46:IF:282:ARG:NE	46:IF:288:GLU:OE2	2.25	0.70
46:KD:350:LYS:NZ	46:KD:352:SER:OG	2.23	0.70
46:KN:114:ASP:OD1	46:KN:115:SER:N	2.25	0.70
45:LA:222:PRO:HD2	46:LB:324:LYS:HZ2	1.55	0.70
46:LL:371:SER:O	46:LL:422:TYR:OH	2.10	0.70
45:PI:352:LYS:HZ3	46:PL:179:VAL:H	1.36	0.70
46:PL:171:PRO:O	46:PL:380:ARG:NH2	2.25	0.70
45:QG:258:ASN:HB3	45:QG:352:LYS:HE2	1.73	0.70
46:RN:100:ASN:ND2	46:RN:401:GLU:OE1	2.25	0.70
46:RN:207:LEU:HD13	46:RN:225:LEU:HB3	1.74	0.70
46:SB:200:MET:HE2	46:SB:268:ILE:HD13	1.73	0.70
46:UH:130:LEU:O	46:UH:162:ARG:NH1	2.23	0.70
45:VK:339:ARG:O	45:VK:342:GLN:NE2	2.25	0.70
45:CE:288:VAL:HG21	45:CE:327:ASP:HB3	1.73	0.70
20:1K:212:ARG:HH21	45:GA:370:LYS:HG3	1.56	0.70
12:1T:128:GLU:HA	45:AC:339:ARG:HH22	1.55	0.70
25:2R:289:ASN:ND2	46:DH:219:THR:OG1	2.24	0.70
46:BJ:178:THR:HB	46:BJ:181:GLU:HG3	1.73	0.70
46:CD:11:GLN:NE2	49:CD:501:GDP:O2A	2.24	0.70
46:DF:73:MET:HA	46:DF:76:VAL:HG12	1.74	0.70
45:IC:336:LYS:O	45:IC:339:ARG:NH2	2.24	0.70
45:KG:288:VAL:HA	45:KG:291:ILE:HG12	1.72	0.70
45:MG:298:PRO:HG3	45:MG:308:ARG:HE	1.56	0.70
46:ND:191:GLN:O	46:ND:195:ASN:ND2	2.22	0.70
46:QF:5:VAL:HG12	46:QF:62:ARG:HE	1.55	0.70
45:TE:278:ALA:HB2	45:TE:369:ALA:HB2	1.74	0.70
45:TG:69:ASP:HB3	45:TG:75:ILE:HD11	1.72	0.70
45:TI:69:ASP:HB3	45:TI:75:ILE:HD11	1.74	0.70
46:TL:258:ILE:HB	45:TM:407:TRP:HZ2	1.56	0.70
46:VB:237:THR:HG23	46:VB:241:ARG:HH21	1.56	0.70
19:1J:126:ASN:O	45:HE:84:ARG:NH2	2.24	0.70
19:1J:315:PHE:HB2	45:IK:282:TYR:HE2	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AJ:281:TYR:HD1	46:MJ:86:ARG:HG3	1.57	0.70
45:BK:221:ARG:HA	46:BL:324:LYS:HZ1	1.57	0.70
46:CJ:73:MET:HA	46:CJ:76:VAL:HG12	1.74	0.70
45:DI:206:ASN:OD1	47:DI:501:GTP:N2	2.23	0.70
45:FI:88:HIS:NE2	45:GI:284:GLU:OE2	2.23	0.70
46:HD:135:ILE:HG13	46:HD:152:ILE:HD11	1.73	0.70
46:HD:213:ARG:HH22	46:HD:297:LYS:HG3	1.55	0.70
45:IG:164:LYS:O	45:IG:166:LYS:NZ	2.25	0.70
46:JN:290:THR:OG1	46:JN:329:GLN:NE2	2.25	0.70
45:NI:387:VAL:HG12	45:NI:390:ARG:HH22	1.56	0.70
45:PI:108:TYR:O	45:PI:112:LYS:NZ	2.25	0.70
45:RA:48:ALA:HB1	45:RA:243:ARG:HB2	1.72	0.70
46:SJ:67:ASP:O	46:SJ:92:PHE:HA	1.92	0.70
46:TJ:135:ILE:HG13	46:TJ:152:ILE:HD11	1.73	0.70
46:UF:213:ARG:NH2	46:UF:297:LYS:O	2.25	0.70
46:UJ:48:ASN:O	46:UJ:62:ARG:NH1	2.25	0.70
45:VC:292:THR:HG21	45:VC:331:SER:HB3	1.72	0.70
46:WN:49:VAL:HG21	46:WN:241:ARG:HG2	1.71	0.70
4:1D:224:ARG:HH22	34:4R:583:GLN:HA	1.55	0.70
17:1F:159:THR:HG22	46:HL:333:VAL:HG22	1.73	0.70
5:2E:61:LYS:NZ	46:DJ:38:GLY:O	2.18	0.70
20:2K:212:ARG:NH2	45:GM:278:ALA:O	2.25	0.70
10:5Q:71:ILE:N	10:5Q:150:GLU:OE2	2.25	0.70
34:6R:386:PRO:HB3	46:EN:280:GLN:HG3	1.72	0.70
45:AK:31:GLN:OE1	45:AK:32:PRO:HD2	1.91	0.70
46:AN:58:ARG:NH1	46:BN:280:GLN:OE1	2.23	0.70
45:BM:222:PRO:HD2	46:BN:324:LYS:HE3	1.74	0.70
45:CM:207:GLU:HG2	45:CM:304:LYS:HD3	1.73	0.70
46:DN:139:LEU:HD22	46:DN:170:VAL:HG12	1.74	0.70
45:EK:360:PRO:O	45:EK:370:LYS:NZ	2.25	0.70
46:EL:11:GLN:O	46:EL:15:GLN:HG2	1.92	0.70
46:FB:139:LEU:HD22	46:FB:170:VAL:HG12	1.73	0.70
46:FL:190:HIS:CD2	46:FL:411:ALA:HA	2.24	0.70
46:GD:135:ILE:HG13	46:GD:152:ILE:HD11	1.73	0.70
45:KI:407:TRP:CZ3	46:KJ:255:VAL:HA	2.26	0.70
45:KK:88:HIS:NE2	45:LK:284:GLU:OE2	2.24	0.70
45:MA:407:TRP:HZ2	46:MB:258:ILE:HD11	1.56	0.70
46:NL:260:PHE:HB2	46:NL:263:LEU:HD12	1.71	0.70
46:OH:309:ARG:NH2	46:OH:341:PHE:O	2.25	0.70
46:RD:167:PHE:HE2	46:RD:233:MET:HB2	1.57	0.70
45:RE:119:LEU:HD13	45:RE:122:ILE:HD11	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VM:108:TYR:HA	45:VM:112:LYS:HE3	1.74	0.70
45:WA:349:THR:HG1	46:WD:176:SER:HG	1.34	0.70
46:WF:8:GLN:NE2	46:WF:10:GLY:O	2.25	0.70
4:0D:13:GLY:O	45:CC:79:ARG:NH1	2.25	0.69
14:2V:24:ARG:HH22	45:ME:433:GLU:HB2	1.56	0.69
40:6G:181:GLY:O	45:UG:123:ARG:NH1	2.25	0.69
40:6G:274:ASN:O	45:VA:215:ARG:NH2	2.25	0.69
45:AC:175:PRO:HG2	45:AC:304:LYS:HD2	1.74	0.69
46:AJ:128:ASP:OD2	46:AJ:129:CYS:N	2.23	0.69
46:AL:396:HIS:HA	46:AL:399:THR:HG22	1.74	0.69
46:AN:178:THR:HB	46:AN:181:GLU:HG3	1.73	0.69
46:BB:20:PHE:O	46:BB:24:ILE:HD12	1.92	0.69
45:BI:221:ARG:NH1	46:BJ:325:GLU:OE1	2.24	0.69
46:CB:213:ARG:NH2	46:CB:297:LYS:O	2.24	0.69
45:EE:326:LYS:NZ	46:EF:208:TYR:HB3	2.06	0.69
46:EJ:215:LEU:HD22	46:EJ:217:LEU:HD23	1.73	0.69
45:JA:215:ARG:HH22	45:JA:300:ASN:HA	1.55	0.69
45:JC:88:HIS:NE2	45:KC:284:GLU:OE2	2.24	0.69
45:JG:55:GLU:HG3	45:JG:57:GLY:H	1.57	0.69
46:KF:334:GLN:HE22	46:KF:348:ASN:H	1.40	0.69
46:KJ:209:ASP:OD1	46:KJ:213:ARG:NH1	2.25	0.69
45:LC:288:VAL:HA	45:LC:291:ILE:HG12	1.74	0.69
46:MB:262:ARG:HH12	46:MB:421:GLU:HG2	1.57	0.69
46:NF:67:ASP:O	46:NF:92:PHE:HA	1.91	0.69
45:NI:71:GLU:OE1	46:NJ:2:ARG:NH2	2.25	0.69
46:TF:107:THR:OG1	46:TF:108:GLU:OE1	2.09	0.69
46:TJ:207:LEU:HB3	46:TJ:225:LEU:HD22	1.74	0.69
46:UB:135:ILE:HG13	46:UB:152:ILE:HD11	1.74	0.69
45:UC:170:THR:O	45:UC:204:LEU:HB2	1.91	0.69
46:UF:68:LEU:HD13	46:UF:93:GLY:HA3	1.73	0.69
46:VB:45:GLU:HG3	46:VB:46:ARG:HG2	1.73	0.69
45:VC:326:LYS:HZ2	46:VF:219:THR:HA	1.55	0.69
46:VF:222:TYR:O	46:VF:226:ASN:ND2	2.18	0.69
46:WD:68:LEU:HB3	46:WD:96:GLY:HA2	1.74	0.69
46:WF:3:GLU:OE2	46:WF:48:ASN:ND2	2.25	0.69
46:WN:268:ILE:HG13	46:WN:300:MET:HG3	1.73	0.69
8:1H:274:LEU:HB3	46:HF:360:GLY:HA2	1.73	0.69
23:2O:156:ARG:NH2	45:VK:367:ASP:O	2.24	0.69
23:3O:427:LEU:HD23	45:UG:282:TYR:HB3	1.73	0.69
39:6F:68:TRP:HH2	46:JF:228:LEU:HG	1.56	0.69
45:BM:69:ASP:HB3	45:BM:75:ILE:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CC:399:TYR:O	45:CC:402:ARG:NH1	2.24	0.69
46:GD:372:THR:HA	46:GD:422:TYR:HE2	1.57	0.69
46:GL:73:MET:HA	46:GL:76:VAL:HG12	1.74	0.69
45:HK:69:ASP:OD1	45:HK:71:GLU:N	2.23	0.69
46:JB:222:TYR:O	46:JB:226:ASN:ND2	2.20	0.69
45:JG:348:PRO:HG2	46:JJ:384:GLN:HG3	1.72	0.69
46:JJ:200:MET:HG2	46:JJ:266:PHE:HB2	1.73	0.69
45:LG:387:VAL:HG12	45:LG:390:ARG:HH22	1.57	0.69
45:NG:377:MET:SD	45:NG:379:SER:OG	2.48	0.69
46:OL:83:GLN:O	46:PL:281:TYR:OH	2.09	0.69
45:PA:100:ALA:HB3	46:PB:251:ARG:HH21	1.58	0.69
46:PN:188:SER:O	46:PN:191:GLN:NE2	2.25	0.69
46:QH:273:LEU:H	46:QH:292:GLN:HE22	1.40	0.69
46:TL:96:GLY:O	46:TL:103:LYS:NZ	2.25	0.69
45:VM:221:ARG:NH1	46:VN:325:GLU:OE2	2.25	0.69
36:5A:138:ARG:NH2	46:ND:357:PRO:O	2.25	0.69
10:5Q:30:ARG:HH22	46:AL:430:ALA:HB1	1.57	0.69
41:6H:248:LEU:O	46:FF:276:ARG:NH2	2.26	0.69
45:AE:211:ASP:OD2	45:AE:215:ARG:NH1	2.25	0.69
45:AK:221:ARG:NH1	46:AL:325:GLU:OE2	2.25	0.69
46:BH:318:ARG:HB3	46:BH:357:PRO:HA	1.75	0.69
45:CA:224:TYR:O	45:CA:228:ASN:ND2	2.25	0.69
45:DE:319:TYR:HB3	45:DE:323:VAL:HG11	1.74	0.69
46:HD:68:LEU:HB3	46:HD:96:GLY:HA2	1.74	0.69
46:HH:100:ASN:HD22	46:HH:103:LYS:HB2	1.57	0.69
46:LD:222:TYR:O	46:LD:226:ASN:ND2	2.22	0.69
46:LH:86:ARG:HD2	46:LH:87:PRO:HD2	1.75	0.69
46:NH:178:THR:HG22	46:NH:180:VAL:H	1.57	0.69
45:RG:175:PRO:HG2	45:RG:304:LYS:HD2	1.72	0.69
45:VI:55:GLU:HG3	45:VI:57:GLY:H	1.57	0.69
45:WK:56:THR:HG23	45:WK:58:ALA:H	1.56	0.69
30:3H:205:GLN:HE22	45:AG:82:THR:HB	1.57	0.69
37:5F:87:LEU:HD13	37:5F:92:GLN:HB3	1.74	0.69
34:7R:268:GLU:HG3	46:DB:276:ARG:HH12	1.58	0.69
45:AA:226:ASN:ND2	45:AA:367:ASP:OD2	2.26	0.69
45:AE:76:ASP:OD1	45:AE:79:ARG:NH2	2.25	0.69
45:BC:229:ARG:HD3	45:BC:363:VAL:HG11	1.74	0.69
45:BE:292:THR:HG21	45:BE:331:SER:HB3	1.72	0.69
46:CB:319:GLY:HA2	46:CB:357:PRO:HG3	1.74	0.69
46:CD:73:MET:HA	46:CD:76:VAL:HG12	1.74	0.69
46:DB:86:ARG:HD2	46:EB:281:TYR:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:326:VAL:O	46:DF:330:MET:HG2	1.91	0.69
45:FM:222:PRO:HD2	46:FN:324:LYS:HD3	1.74	0.69
46:IL:22:GLU:HG2	46:IL:81:PHE:HD1	1.57	0.69
45:JC:210:TYR:HH	46:JD:323:THR:HG1	1.39	0.69
46:OD:139:LEU:HD12	46:OD:170:VAL:HG12	1.73	0.69
46:OJ:222:TYR:O	46:OJ:226:ASN:ND2	2.18	0.69
45:PE:256:GLN:OE1	46:PH:397:TRP:NE1	2.26	0.69
45:RM:140:SER:OG	47:RM:501:GTP:O2B	2.10	0.69
46:SF:27:GLU:HA	46:SF:359:LYS:HD2	1.74	0.69
46:SJ:258:ILE:HD11	45:SK:407:TRP:HZ2	1.57	0.69
45:SK:75:ILE:HD11	45:SK:92:LEU:HB3	1.73	0.69
46:TD:242:PHE:HB3	46:TD:356:ILE:HD13	1.75	0.69
46:UB:273:LEU:O	46:UB:292:GLN:NE2	2.25	0.69
46:VN:318:ARG:HG2	46:VN:357:PRO:HA	1.73	0.69
45:WE:188:ILE:HD12	45:WE:425:LEU:HD11	1.74	0.69
20:1K:48:TRP:NE1	46:JF:74:ASP:OD1	2.24	0.69
23:1O:268:ASN:N	45:UA:282:TYR:CD2	2.61	0.69
11:1S:121:CYS:SG	46:AF:426:GLN:NE2	2.65	0.69
9:2N:167:ARG:NH2	46:KB:224:ASP:OD1	2.24	0.69
31:3I:272:ARG:NH2	46:FJ:90:PHE:O	2.24	0.69
34:7R:146:LYS:NZ	46:AD:75:SER:O	2.25	0.69
45:BC:221:ARG:HH11	46:BD:324:LYS:HZ3	1.38	0.69
46:BD:139:LEU:HD22	46:BD:170:VAL:HG12	1.74	0.69
45:BE:326:LYS:HZ2	46:BH:220:PRO:HD2	1.58	0.69
46:BL:318:ARG:HB3	46:BL:357:PRO:HA	1.75	0.69
45:CC:288:VAL:HG11	45:CC:327:ASP:HB3	1.74	0.69
45:CK:89:PRO:HG2	45:DK:280:LYS:HD3	1.75	0.69
45:FI:292:THR:HG21	45:FI:331:SER:HB3	1.74	0.69
46:GD:67:ASP:O	46:GD:92:PHE:HA	1.92	0.69
45:GE:221:ARG:NH1	46:GF:322:SER:OG	2.25	0.69
46:IH:45:GLU:OE1	46:IH:46:ARG:HG2	1.93	0.69
46:JF:67:ASP:O	46:JF:92:PHE:HA	1.92	0.69
46:MD:248:SER:HA	46:MD:252:LYS:HD3	1.75	0.69
46:MH:73:MET:HA	46:MH:76:VAL:HG12	1.74	0.69
46:MN:262:ARG:NH2	46:MN:414:ASN:OD1	2.26	0.69
45:OI:224:TYR:HB2	46:OJ:245:GLN:HE21	1.56	0.69
46:PN:87:PRO:HA	46:PN:90:PHE:HD2	1.56	0.69
46:PN:237:THR:HG23	46:PN:241:ARG:HH21	1.57	0.69
46:QH:218:THR:HG23	46:QH:219:THR:HG23	1.74	0.69
46:QH:371:SER:O	46:QH:422:TYR:OH	2.10	0.69
46:QN:139:LEU:HD22	46:QN:170:VAL:HG12	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RE:65:ALA:O	45:RE:91:GLN:NE2	2.25	0.69
45:VG:22:GLU:OE2	45:VG:83:TYR:OH	2.11	0.69
45:WA:70:LEU:O	46:WB:2:ARG:NH2	2.25	0.69
45:WC:108:TYR:O	45:WC:112:LYS:NZ	2.23	0.69
11:OS:278:ARG:HH21	46:WB:118:ASP:HB2	1.56	0.69
15:1X:78:ASN:HD22	46:MF:280:GLN:HG3	1.55	0.69
23:2O:156:ARG:HD2	45:VK:278:ALA:HB3	1.72	0.69
37:5H:71:PRO:HB3	37:5H:104:MET:HB2	1.74	0.69
46:AJ:86:ARG:NE	46:AJ:86:ARG:HA	2.07	0.69
46:CB:376:GLU:HA	46:CB:379:LYS:HZ3	1.56	0.69
45:DK:140:SER:OG	47:DK:501:GTP:O2B	2.10	0.69
45:FI:98:ASP:O	45:FI:105:ARG:NH2	2.25	0.69
46:GJ:178:THR:HB	46:GJ:181:GLU:HG3	1.73	0.69
45:IE:89:PRO:HD3	46:JF:281:TYR:CD1	2.27	0.69
46:KH:31:ASP:OD1	46:KH:35:THR:N	2.25	0.69
46:LD:86:ARG:HH12	46:MD:281:TYR:HB3	1.56	0.69
46:NB:97:ALA:HA	46:NB:103:LYS:HD2	1.75	0.69
46:SF:309:ARG:NH2	46:SF:426:GLN:O	2.26	0.69
46:TB:251:ARG:NE	45:TC:105:ARG:HH22	1.91	0.69
46:UD:273:LEU:H	46:UD:292:GLN:HE22	1.38	0.69
45:UI:11:GLN:NE2	47:UI:501:GTP:O3A	2.26	0.69
46:UN:222:TYR:O	46:UN:226:ASN:ND2	2.24	0.69
45:WA:180:ALA:HB3	45:WA:183:GLU:HB2	1.73	0.69
46:WB:73:MET:HA	46:WB:76:VAL:HG12	1.75	0.69
46:WD:73:MET:HA	46:WD:76:VAL:HG12	1.75	0.69
46:WL:375:GLN:HE21	46:WL:422:TYR:HD2	1.39	0.69
19:1J:345:VAL:HG12	46:IN:227:HIS:ND1	2.06	0.69
36:5A:80:ASN:O	36:5A:84:TYR:HB2	1.93	0.69
36:5B:125:GLN:O	46:NH:276:ARG:NH1	2.26	0.69
37:5F:52:GLY:N	37:5F:55:GLU:OE2	2.25	0.69
45:AM:371:VAL:HG12	45:AM:373:ARG:H	1.58	0.69
45:BC:72:PRO:HD2	46:BD:2:ARG:HH21	1.57	0.69
46:EB:65:LEU:HB2	46:EB:90:PHE:HD1	1.55	0.69
45:EI:9:VAL:HG12	45:EI:68:LEU:HB2	1.73	0.69
45:EK:31:GLN:HE21	45:EK:37:PRO:HB3	1.58	0.69
46:HD:164:MET:HB2	46:HD:197:ASP:H	1.58	0.69
46:HD:274:THR:HB	46:HD:282:ARG:HH21	1.58	0.69
46:IN:73:MET:HA	46:IN:76:VAL:HG12	1.75	0.69
45:JA:212:ILE:HG12	45:JA:215:ARG:HH21	1.58	0.69
46:KJ:173:PRO:HG2	46:KJ:380:ARG:HD3	1.75	0.69
45:MG:205:ASP:OD2	45:MG:206:ASN:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OC:89:PRO:HD3	45:PC:280:LYS:HE3	1.73	0.69
46:PH:86:ARG:HH22	46:QF:282:ARG:HA	1.57	0.69
46:PJ:6:HIS:O	46:PJ:63:ALA:HA	1.91	0.69
46:QH:68:LEU:HD12	46:QH:93:GLY:HA3	1.75	0.69
46:QJ:260:PHE:HB2	46:QJ:263:LEU:HD13	1.75	0.69
46:RB:371:SER:O	46:RB:422:TYR:OH	2.10	0.69
46:TD:67:ASP:O	46:TD:92:PHE:HA	1.92	0.69
45:TI:89:PRO:HG2	45:UI:280:LYS:HZ2	1.56	0.69
45:UG:288:VAL:HG21	45:UG:327:ASP:HB3	1.74	0.69
46:WB:64:ILE:HD11	46:WB:123:GLU:HG3	1.73	0.69
45:WE:352:LYS:NZ	46:WH:178:THR:HA	2.07	0.69
46:WH:209:ASP:HB3	46:WH:213:ARG:NH2	2.08	0.69
45:WM:222:PRO:HD2	46:WN:324:LYS:HE3	1.73	0.69
4:1D:6:ARG:NH1	46:CF:45:GLU:OE1	2.25	0.69
23:1O:268:ASN:HB3	45:UA:282:TYR:HB2	1.74	0.69
13:3U:226:ILE:HG23	45:WK:43:GLY:HA2	1.75	0.69
40:6G:144:LYS:HD3	45:VG:214:ARG:HH22	1.57	0.69
46:AF:285:THR:OG1	46:AF:288:GLU:OE1	2.11	0.69
45:BC:175:PRO:HG2	45:BC:304:LYS:HD2	1.75	0.69
46:BN:403:MET:HB3	46:BN:407:GLU:OE2	1.92	0.69
45:CC:145:THR:OG1	47:CC:501:GTP:O1B	2.10	0.69
46:CH:45:GLU:OE2	46:CH:46:ARG:NH1	2.25	0.69
45:DK:288:VAL:HG11	45:DK:327:ASP:HB3	1.73	0.69
46:EF:164:MET:HB2	46:EF:197:ASP:H	1.57	0.69
45:EI:60:LYS:NZ	45:EI:85:GLN:O	2.25	0.69
45:EI:120:ASP:OD2	45:EI:123:ARG:NH2	2.26	0.69
46:EJ:73:MET:HA	46:EJ:76:VAL:HG12	1.75	0.69
46:EJ:325:GLU:HG2	45:EK:221:ARG:HG2	1.75	0.69
45:FE:407:TRP:HZ2	46:FF:258:ILE:HD11	1.58	0.69
46:FJ:208:TYR:HE2	46:FJ:225:LEU:HD11	1.58	0.69
46:GD:203:ASP:OD2	46:GD:302:ALA:N	2.20	0.69
46:GL:362:LYS:HG3	46:GL:363:MET:SD	2.33	0.69
45:HK:62:VAL:HG11	45:IK:283:HIS:HB3	1.75	0.69
45:MI:9:VAL:HG12	45:MI:68:LEU:HB2	1.75	0.69
45:MM:9:VAL:HG12	45:MM:68:LEU:HB2	1.74	0.69
45:OK:326:LYS:HE2	46:ON:220:PRO:HB2	1.73	0.69
45:PE:27:GLU:HB3	45:PE:361:THR:HG21	1.73	0.69
46:QL:87:PRO:HA	46:QL:90:PHE:HD2	1.57	0.69
46:QL:260:PHE:HB2	46:QL:263:LEU:HD13	1.75	0.69
46:RB:2:ARG:NH1	45:RC:72:PRO:HD2	2.07	0.69
46:RF:420:SER:HA	46:RF:423:GLN:HE21	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RN:87:PRO:HA	46:RN:90:PHE:HD2	1.58	0.69
45:SA:254:GLU:HG2	46:SB:98:GLY:HA2	1.75	0.69
46:SL:289:LEU:HD13	46:SL:365:VAL:HG23	1.73	0.69
45:SM:157:LEU:HD11	45:SM:166:LYS:HD3	1.74	0.69
46:TB:46:ARG:HH22	45:TC:73:THR:HG23	1.56	0.69
46:TF:117:LEU:HD21	46:TF:154:LYS:HE2	1.73	0.69
45:TK:88:HIS:NE2	45:UK:284:GLU:OE2	2.26	0.69
45:UK:352:LYS:HZ1	46:UL:179:VAL:H	1.41	0.69
45:VA:244:PHE:HB2	45:VA:356:ASN:HD21	1.57	0.69
46:VB:207:LEU:HD22	46:VB:228:LEU:HD11	1.74	0.69
45:VG:221:ARG:NH2	46:VH:325:GLU:HG2	2.08	0.69
46:VN:67:ASP:O	46:VN:92:PHE:HA	1.92	0.69
45:WM:105:ARG:HH21	45:WM:109:THR:HG21	1.57	0.69
7:0G:53:ASN:HA	45:JK:364:PRO:HG2	1.73	0.69
37:5F:154:TYR:CE1	46:NH:35:THR:HG23	2.26	0.69
46:AN:377:MET:SD	46:AN:380:ARG:NH2	2.66	0.69
46:CB:129:CYS:HB2	45:CC:96:LYS:HE2	1.75	0.69
46:CN:73:MET:HA	46:CN:76:VAL:HG12	1.75	0.69
45:GG:387:VAL:HG12	45:GG:390:ARG:HH22	1.58	0.69
45:GI:226:ASN:ND2	45:GI:367:ASP:OD2	2.26	0.69
46:IF:267:MET:HE3	46:IF:299:MET:HG2	1.75	0.69
46:JN:376:GLU:HB3	46:JN:380:ARG:NH1	2.08	0.69
46:NF:287:PRO:O	46:NF:291:GLN:NE2	2.25	0.69
45:PC:1:MET:SD	46:PF:94:GLN:NE2	2.66	0.69
46:QD:54:ALA:HA	46:RD:283:ALA:HB2	1.73	0.69
46:RJ:67:ASP:O	46:RJ:92:PHE:HA	1.93	0.69
46:SD:166:THR:OG1	46:SD:199:CYS:SG	2.48	0.69
45:SG:214:ARG:NH2	45:SG:219:ILE:O	2.26	0.69
46:TJ:68:LEU:HB3	46:TJ:96:GLY:HA2	1.75	0.69
46:UD:48:ASN:O	46:UD:62:ARG:NH1	2.25	0.69
45:UG:211:ASP:OD2	45:UG:215:ARG:NH1	2.25	0.69
45:UI:145:THR:OG1	47:UI:501:GTP:O1B	2.10	0.69
46:UN:237:THR:HG23	46:UN:241:ARG:HH21	1.57	0.69
45:WA:116:ASP:OD1	45:WA:117:LEU:N	2.26	0.69
23:1O:269:GLN:N	45:UA:282:TYR:HD2	1.85	0.69
1:3A:101:ASN:ND2	34:6R:60:GLY:O	2.26	0.69
10:5Q:93:VAL:HA	10:5Q:151:THR:HA	1.74	0.69
45:CI:260:VAL:HG23	46:CJ:397:TRP:HE1	1.57	0.69
46:CN:207:LEU:HB3	46:CN:225:LEU:HD22	1.72	0.69
45:DI:188:ILE:HD12	45:DI:425:LEU:HD11	1.75	0.69
46:HF:132:GLY:HA3	46:HF:163:ILE:HG13	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HL:318:ARG:HB3	46:HL:357:PRO:HA	1.73	0.69
45:JA:406:HIS:HA	45:JA:409:VAL:HG12	1.74	0.69
45:JM:47:ASP:OD1	45:JM:50:ASN:ND2	2.26	0.69
46:KF:313:ALA:HB3	46:KF:349:ILE:HG12	1.75	0.69
46:LD:322:SER:OG	46:LD:325:GLU:OE1	2.11	0.69
46:LH:309:ARG:NH1	46:LH:426:GLN:O	2.26	0.69
45:NA:88:HIS:ND1	45:NA:91:GLN:OE1	2.26	0.69
46:QF:166:THR:OG1	46:QF:199:CYS:SG	2.51	0.69
45:SM:157:LEU:HA	45:SM:160:ASP:HB2	1.75	0.69
46:TJ:258:ILE:HB	45:TK:407:TRP:CH2	2.28	0.69
46:UD:236:VAL:HG13	46:UD:237:THR:HG23	1.75	0.69
33:4F:158:GLY:O	46:IN:320:ARG:NH2	2.25	0.68
41:6H:173:SER:HB3	41:6H:176:ASN:OD1	1.93	0.68
46:BL:67:ASP:O	46:BL:92:PHE:HA	1.93	0.68
46:CL:68:LEU:HB3	46:CL:96:GLY:HA2	1.74	0.68
46:DD:208:TYR:HB3	45:DC:326:LYS:NZ	2.09	0.68
45:DK:326:LYS:HE2	46:DL:220:PRO:HD2	1.75	0.68
45:LC:406:HIS:HA	45:LC:409:VAL:HG12	1.75	0.68
46:MB:148:GLY:O	46:MB:152:ILE:HG12	1.92	0.68
45:MM:1:MET:SD	45:MM:2:ARG:NH2	2.66	0.68
45:NA:430:LYS:O	45:NA:433:GLU:HG3	1.93	0.68
45:OM:274:PRO:HD2	45:OM:374:ALA:HA	1.75	0.68
45:PI:244:PHE:HB2	45:PI:356:ASN:HD21	1.57	0.68
46:QF:200:MET:HG3	46:QF:266:PHE:HB2	1.75	0.68
46:RB:166:THR:OG1	46:RB:199:CYS:SG	2.51	0.68
45:RE:60:LYS:NZ	45:RE:85:GLN:O	2.25	0.68
46:RF:290:THR:HG21	46:RF:329:GLN:HG2	1.76	0.68
45:SE:254:GLU:OE2	46:SF:99:ASN:ND2	2.26	0.68
46:WB:256:ASN:HB3	46:WB:350:LYS:HE3	1.76	0.68
45:WC:292:THR:HG21	45:WC:331:SER:HB3	1.75	0.68
21:1L:283:ARG:NH2	46:BH:358:PRO:O	2.24	0.68
14:1V:22:ARG:HH22	45:MI:422:ARG:HH12	1.42	0.68
34:6R:469:LYS:H	46:EN:77:ARG:HH21	1.41	0.68
46:BH:156:ARG:NH1	46:BH:195:ASN:O	2.27	0.68
46:CN:318:ARG:HB3	46:CN:357:PRO:HA	1.75	0.68
46:EJ:8:GLN:HE22	46:EJ:17:GLY:HA3	1.58	0.68
45:EM:261:PRO:HD2	45:EM:262:TYR:N	2.06	0.68
45:FA:336:LYS:O	45:FA:339:ARG:NH2	2.27	0.68
45:GK:326:LYS:HE2	46:GN:220:PRO:HD2	1.73	0.68
45:HG:210:TYR:HE1	45:HG:227:LEU:HD11	1.57	0.68
46:HH:135:ILE:HG13	46:HH:152:ILE:HD11	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IN:222:TYR:O	46:IN:226:ASN:ND2	2.20	0.68
46:JJ:191:GLN:O	46:JJ:195:ASN:ND2	2.23	0.68
45:KG:284:GLU:HG3	45:KG:286:LEU:HG	1.75	0.68
46:MH:295:ASP:OD2	46:MH:297:LYS:NZ	2.25	0.68
46:MN:62:ARG:NH1	46:MN:127:CYS:SG	2.66	0.68
45:OE:288:VAL:HG11	45:OE:327:ASP:HB3	1.74	0.68
45:PG:288:VAL:HG21	45:PG:327:ASP:HB3	1.73	0.68
46:QF:221:THR:HG23	46:QF:224:ASP:H	1.58	0.68
45:RG:2:ARG:NH2	46:RH:69:GLU:OE2	2.25	0.68
45:SG:256:GLN:HE22	46:SH:397:TRP:HE1	1.40	0.68
45:SK:284:GLU:HG2	45:SK:286:LEU:HD22	1.75	0.68
46:UB:86:ARG:NH2	46:UB:89:ASN:OD1	2.26	0.68
46:VB:49:VAL:O	46:VB:62:ARG:NH2	2.26	0.68
46:VN:3:GLU:HA	46:VN:49:VAL:HG13	1.74	0.68
11:OS:278:ARG:NH2	46:WB:119:VAL:HG13	2.08	0.68
14:OV:96:ASN:HD21	46:LN:262:ARG:H	1.41	0.68
34:7R:593:ASP:OD2	34:7R:598:TRP:N	2.25	0.68
46:GH:235:GLY:HA3	46:GH:366:THR:HG21	1.73	0.68
46:GN:226:ASN:HD21	49:GN:502:GDP:HN1	1.41	0.68
46:GN:282:ARG:NH2	46:GN:292:GLN:OE1	2.25	0.68
46:HN:67:ASP:O	46:HN:92:PHE:HA	1.93	0.68
46:IJ:73:MET:HA	46:IJ:76:VAL:HG12	1.74	0.68
45:JE:27:GLU:OE1	45:JE:243:ARG:NH1	2.26	0.68
46:JJ:247:ASN:O	46:JJ:252:LYS:NZ	2.26	0.68
45:KI:317:MET:HG2	45:KI:377:MET:HG2	1.74	0.68
45:ME:259:LEU:HD21	45:ME:316:SER:HB2	1.75	0.68
46:ML:67:ASP:O	46:ML:92:PHE:HA	1.92	0.68
45:OE:55:GLU:HG3	45:OE:57:GLY:H	1.58	0.68
45:PC:221:ARG:NE	46:PD:322:SER:OG	2.18	0.68
45:PM:55:GLU:HG3	45:PM:57:GLY:H	1.59	0.68
45:QM:33:ASP:HA	45:QM:85:GLN:HE21	1.58	0.68
45:SG:33:ASP:HA	45:SG:85:GLN:HE21	1.59	0.68
46:TB:58:ARG:HH22	46:TB:84:LEU:HA	1.58	0.68
46:UF:213:ARG:HE	46:UF:297:LYS:HB3	1.58	0.68
45:UM:336:LYS:O	45:UM:339:ARG:NH2	2.26	0.68
45:VK:288:VAL:HG11	45:VK:327:ASP:HB3	1.75	0.68
46:VL:372:THR:HA	46:VL:422:TYR:HE2	1.57	0.68
45:WE:254:GLU:HG2	46:WH:98:GLY:HA2	1.74	0.68
19:1J:122:ARG:NH2	45:IE:218:ASP:O	2.26	0.68
23:1O:266:GLU:N	45:UA:282:TYR:CD2	2.61	0.68
36:5A:71:SER:O	46:NB:359:LYS:NZ	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AL:318:ARG:HE	46:AL:358:PRO:HG3	1.59	0.68
45:BA:387:VAL:HA	45:BA:390:ARG:HD3	1.74	0.68
46:CL:173:PRO:HD2	46:CL:380:ARG:CZ	2.24	0.68
46:DB:86:ARG:HG2	46:EB:282:ARG:HH12	1.57	0.68
46:DB:246:LEU:HD11	45:DC:224:TYR:HE2	1.58	0.68
45:DE:326:LYS:NZ	46:DF:220:PRO:O	2.22	0.68
45:DK:120:ASP:OD2	45:DK:124:LYS:NZ	2.26	0.68
45:DK:188:ILE:HD12	45:DK:425:LEU:HD11	1.76	0.68
46:EN:178:THR:HB	46:EN:181:GLU:HG3	1.74	0.68
45:FC:7:ILE:HD11	45:FC:122:ILE:HD11	1.75	0.68
45:FC:221:ARG:NH1	46:FD:325:GLU:OE1	2.27	0.68
45:GA:33:ASP:OD1	45:GA:85:GLN:NE2	2.26	0.68
45:GA:101:ASN:HA	45:GA:144:GLY:H	1.57	0.68
46:HB:58:ARG:HH22	46:IB:281:TYR:HA	1.58	0.68
45:HE:101:ASN:HD22	46:HF:256:ASN:HD21	1.41	0.68
46:IL:68:LEU:HB3	46:IL:96:GLY:HA2	1.76	0.68
46:IL:372:THR:HA	46:IL:422:TYR:HE2	1.58	0.68
45:KK:345:ASP:OD2	45:KK:346:TRP:N	2.27	0.68
46:MD:135:ILE:HG13	46:MD:152:ILE:HD11	1.74	0.68
45:MG:211:ASP:OD1	45:MG:214:ARG:NH2	2.26	0.68
46:MH:135:ILE:HG13	46:MH:152:ILE:HD11	1.76	0.68
46:NH:107:THR:OG1	46:NH:108:GLU:OE1	2.11	0.68
45:NI:352:LYS:HE3	46:NL:179:VAL:H	1.57	0.68
45:NM:31:GLN:NE2	45:NM:35:GLN:O	2.26	0.68
46:PB:139:LEU:HD22	46:PB:170:VAL:HG12	1.75	0.68
45:PG:89:PRO:HD2	45:QG:280:LYS:HZ3	1.59	0.68
46:QH:222:TYR:O	46:QH:226:ASN:ND2	2.23	0.68
46:SJ:375:GLN:HB2	46:SJ:379:LYS:HZ2	1.56	0.68
45:SK:48:ALA:HB1	45:SK:243:ARG:HB2	1.75	0.68
45:SM:211:ASP:OD2	45:SM:215:ARG:NH1	2.27	0.68
45:TE:91:GLN:HG3	45:TE:121:ARG:HD2	1.75	0.68
45:UE:128:ASN:OD1	45:VC:285:GLN:NE2	2.26	0.68
45:UK:133:GLN:HB3	45:UK:252:ILE:HD11	1.74	0.68
46:VF:236:VAL:HG13	46:VF:237:THR:HG23	1.75	0.68
46:WB:370:ASN:OD1	46:WB:422:TYR:OH	2.11	0.68
46:WH:49:VAL:HG11	46:WH:241:ARG:HG2	1.76	0.68
32:3D:6:LYS:NZ	46:KD:36:TYR:O	2.25	0.68
45:BE:221:ARG:NH2	46:BF:321:MET:HA	2.09	0.68
45:EM:399:TYR:O	45:EM:402:ARG:NH1	2.26	0.68
45:FA:271:SER:OG	45:FA:301:MET:SD	2.52	0.68
45:GA:88:HIS:HA	45:HA:283:HIS:HE1	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:224:TYR:HE2	46:GB:246:LEU:HD11	1.59	0.68
45:HG:292:THR:HG21	45:HG:331:SER:HB3	1.74	0.68
45:HI:257:THR:HA	46:HL:397:TRP:HZ3	1.59	0.68
45:NE:219:ILE:HG13	45:NE:221:ARG:H	1.59	0.68
45:PA:254:GLU:O	45:PA:258:ASN:ND2	2.27	0.68
45:PK:107:HIS:HA	45:PK:152:LEU:HD11	1.75	0.68
45:QK:287:SER:OG	45:QK:290:GLU:OE2	2.10	0.68
45:RI:392:ASP:HA	45:RI:422:ARG:HH12	1.58	0.68
45:SK:21:TRP:CZ3	45:SK:63:PRO:HB3	2.29	0.68
45:TE:285:GLN:NE2	45:TE:290:GLU:OE2	2.26	0.68
46:TF:156:ARG:NH1	46:TF:159:TYR:O	2.27	0.68
45:TK:115:VAL:HG11	45:TK:156:ARG:HH12	1.59	0.68
14:OV:71:PHE:HB2	46:MN:306:ARG:HH21	1.59	0.68
11:3S:136:ARG:HH22	10:5Q:72:LYS:NZ	1.90	0.68
37:5H:19:LEU:HA	37:5H:22:LYS:HG2	1.75	0.68
34:6R:256:LEU:HD12	34:6R:356:THR:HG23	1.76	0.68
46:CD:2:ARG:NH2	45:CE:71:GLU:OE2	2.27	0.68
46:CF:86:ARG:HD3	46:DF:281:TYR:CD2	2.24	0.68
45:CG:88:HIS:CD2	45:CG:91:GLN:HG3	2.27	0.68
45:CG:89:PRO:HG2	45:DG:280:LYS:HD3	1.75	0.68
45:DE:69:ASP:HB3	45:DE:75:ILE:HD11	1.75	0.68
45:DM:69:ASP:HB3	45:DM:75:ILE:HD11	1.76	0.68
45:FC:226:ASN:ND2	45:FC:367:ASP:OD2	2.27	0.68
46:FH:143:THR:O	46:FH:147:MET:HG2	1.93	0.68
45:GA:226:ASN:ND2	45:GA:367:ASP:OD2	2.26	0.68
46:IL:181:GLU:OE1	46:IL:182:PRO:HD3	1.93	0.68
46:IN:86:ARG:NH1	46:IN:89:ASN:OD1	2.24	0.68
46:NB:130:LEU:O	46:NB:162:ARG:NH1	2.27	0.68
45:OI:121:ARG:HD2	45:OI:124:LYS:HZ3	1.57	0.68
46:ON:222:TYR:O	46:ON:226:ASN:ND2	2.22	0.68
46:PD:73:MET:HA	46:PD:76:VAL:HG12	1.76	0.68
45:PG:244:PHE:HB2	45:PG:356:ASN:HD21	1.59	0.68
45:RM:101:ASN:HA	45:RM:144:GLY:H	1.58	0.68
45:SC:101:ASN:HA	45:SC:144:GLY:H	1.58	0.68
46:SF:99:ASN:HA	46:SF:142:GLY:H	1.57	0.68
45:TC:55:GLU:HG3	45:TC:57:GLY:H	1.59	0.68
45:UM:55:GLU:HG3	45:UM:57:GLY:H	1.58	0.68
45:VA:90:GLU:HG3	45:WA:280:LYS:HZ3	1.59	0.68
3:1C:51:ASN:HA	45:EM:221:ARG:HH22	1.57	0.68
20:1K:43:LYS:HD2	46:KF:212:PHE:CZ	2.26	0.68
20:2K:291:GLN:NE2	46:FL:55:THR:HB	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5G:108:LYS:HG3	37:5G:110:ARG:HH12	1.58	0.68
37:5H:52:GLY:N	37:5H:55:GLU:OE2	2.25	0.68
46:AH:272:PRO:HG3	46:AH:284:LEU:HD11	1.74	0.68
45:AK:80:THR:O	45:AK:84:ARG:NH2	2.27	0.68
46:AL:293:MET:HE3	46:AL:367:PHE:HB2	1.76	0.68
45:CA:3:GLU:O	45:CA:133:GLN:N	2.23	0.68
46:CB:318:ARG:NH1	46:CB:358:PRO:HG3	2.08	0.68
45:DE:208:ALA:O	45:DE:212:ILE:HG12	1.94	0.68
45:GE:2:ARG:HB3	45:GE:133:GLN:HE22	1.59	0.68
46:GL:67:ASP:O	46:GL:92:PHE:HA	1.93	0.68
46:IL:274:THR:OG1	46:IL:279:GLN:OE1	2.11	0.68
46:JB:187:LEU:HD21	46:JB:408:PHE:HE2	1.59	0.68
46:JD:124:ALA:HB1	46:JD:130:LEU:HD11	1.74	0.68
45:KG:11:GLN:NE2	45:KG:15:GLN:OE1	2.27	0.68
46:LF:262:ARG:NH1	46:LF:421:GLU:OE2	2.27	0.68
45:MC:407:TRP:HZ2	46:MD:258:ILE:HD11	1.58	0.68
46:ML:67:ASP:OD2	46:ML:68:LEU:N	2.27	0.68
45:NA:11:GLN:NE2	46:NB:245:GLN:O	2.26	0.68
45:OA:75:ILE:HD13	45:OA:94:SER:HB2	1.74	0.68
45:OI:292:THR:HG21	45:OI:331:SER:HB3	1.74	0.68
46:PD:207:LEU:HD13	46:PD:228:LEU:HD11	1.76	0.68
46:QJ:45:GLU:OE1	46:QJ:46:ARG:NH1	2.25	0.68
46:RJ:376:GLU:OE2	46:RJ:380:ARG:NH1	2.27	0.68
45:RM:244:PHE:HB2	45:RM:356:ASN:HD21	1.59	0.68
45:SC:88:HIS:HB3	45:SC:91:GLN:HG2	1.75	0.68
46:UH:299:MET:HG3	46:UH:301:CYS:H	1.59	0.68
46:VB:260:PHE:HB2	46:VB:263:LEU:HD13	1.74	0.68
45:VM:226:ASN:ND2	45:VM:367:ASP:OD2	2.26	0.68
31:2I:44:PRO:HD2	46:GH:329:GLN:HE22	1.57	0.68
36:5A:28:SER:O	36:5A:36:ARG:NH2	2.26	0.68
46:BB:318:ARG:HB2	46:BB:364:ALA:HB3	1.75	0.68
46:CF:11:GLN:HB3	46:CF:72:THR:HG21	1.74	0.68
45:CK:316:SER:HA	45:CK:352:LYS:HB2	1.76	0.68
46:ED:45:GLU:OE2	46:ED:46:ARG:NH1	2.26	0.68
46:HH:218:THR:HG23	46:HH:219:THR:HG23	1.74	0.68
45:II:288:VAL:HG11	45:II:327:ASP:HB3	1.75	0.68
46:JH:350:LYS:NZ	46:JH:352:SER:OG	2.26	0.68
45:KK:9:VAL:HG12	45:KK:68:LEU:HB2	1.75	0.68
46:LB:7:ILE:HG22	46:LB:64:ILE:HB	1.75	0.68
46:LH:257:LEU:HD21	46:LH:314:SER:HB2	1.74	0.68
45:LI:55:GLU:HG3	45:LI:57:GLY:H	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ON:226:ASN:HD21	49:ON:501:GDP:HN1	1.41	0.68
45:PC:96:LYS:NZ	45:PC:97:GLU:OE2	2.25	0.68
46:QF:73:MET:HA	46:QF:76:VAL:HG12	1.75	0.68
45:QM:326:LYS:HD3	46:QN:212:PHE:HZ	1.59	0.68
45:RK:65:ALA:O	45:RK:91:GLN:NE2	2.27	0.68
46:SD:371:SER:O	46:SD:422:TYR:OH	2.10	0.68
45:SK:31:GLN:HG3	45:SK:32:PRO:HD2	1.74	0.68
46:TB:252:LYS:HE2	45:TC:100:ALA:HA	1.75	0.68
46:TD:178:THR:HB	46:TD:181:GLU:HG3	1.76	0.68
46:UD:178:THR:HG22	46:UD:180:VAL:H	1.59	0.68
45:VI:207:GLU:HA	45:VI:210:TYR:HD2	1.59	0.68
45:VI:254:GLU:OE1	46:VL:99:ASN:ND2	2.27	0.68
46:VN:222:TYR:O	46:VN:226:ASN:ND2	2.24	0.68
45:WC:328:VAL:HG11	45:WC:353:VAL:HG21	1.75	0.68
46:WH:293:MET:HE2	46:WH:367:PHE:HB2	1.74	0.68
18:1I:152:LYS:NZ	45:KE:364:PRO:O	2.26	0.68
21:2L:524:ARG:NH2	46:BN:357:PRO:O	2.26	0.68
10:5Q:107:ASN:O	10:5Q:124:ARG:NH2	2.26	0.68
45:BC:326:LYS:NZ	46:BF:220:PRO:O	2.27	0.68
46:CL:309:ARG:NH1	46:CL:343:GLU:OE1	2.27	0.68
46:DL:327:ASP:HA	46:DL:330:MET:HE1	1.76	0.68
46:ED:12:CYS:HA	46:ED:15:GLN:HE21	1.57	0.68
46:ED:238:CYS:SG	46:ED:318:ARG:NE	2.66	0.68
46:FD:48:ASN:O	46:FD:62:ARG:NH1	2.26	0.68
46:GF:226:ASN:HD21	49:GF:501:GDP:HN1	1.42	0.68
45:GG:325:PRO:HA	45:GG:328:VAL:HG12	1.74	0.68
46:IJ:222:TYR:O	46:IJ:226:ASN:ND2	2.23	0.68
45:IM:239:THR:HG23	45:IM:243:ARG:HH12	1.59	0.68
45:KG:9:VAL:HG12	45:KG:68:LEU:HB2	1.74	0.68
45:MA:282:TYR:OH	45:MA:370:LYS:O	2.12	0.68
45:MK:241:SER:OG	45:MK:250:VAL:O	2.11	0.68
46:NB:213:ARG:NH2	46:NB:297:LYS:O	2.27	0.68
46:ND:218:THR:HG23	46:ND:219:THR:HG23	1.74	0.68
45:NG:27:GLU:OE1	45:NG:243:ARG:NH1	2.27	0.68
45:OA:339:ARG:O	45:OA:342:GLN:NE2	2.27	0.68
46:OJ:276:ARG:NH2	46:OJ:279:GLN:OE1	2.27	0.68
45:PA:244:PHE:HB2	45:PA:356:ASN:HD21	1.57	0.68
46:QL:2:ARG:HH12	45:QM:98:ASP:H	1.42	0.68
45:RG:55:GLU:O	45:SG:285:GLN:NE2	2.26	0.68
46:SH:405:GLU:HA	46:SH:408:PHE:HD2	1.58	0.68
46:TF:6:HIS:NE2	46:TF:8:GLN:OE1	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TF:251:ARG:NH1	45:TG:97:GLU:OE2	2.27	0.68
46:VH:73:MET:HA	46:VH:76:VAL:HG12	1.76	0.68
45:WI:140:SER:OG	47:WI:501:GTP:O2B	2.12	0.68
46:WJ:396:HIS:HA	46:WJ:399:THR:HG22	1.74	0.68
17:1F:168:ARG:H	45:GK:96:LYS:HE3	1.58	0.68
35:5S:192:MET:HG2	46:AH:424:GLN:HG3	1.76	0.68
45:AC:188:ILE:HD12	45:AC:425:LEU:HD11	1.75	0.68
46:BB:139:LEU:HD22	46:BB:170:VAL:HG12	1.76	0.68
46:CF:70:PRO:O	46:CF:74:ASP:HB2	1.94	0.68
46:CF:86:ARG:CD	46:DF:281:TYR:CE1	2.77	0.68
46:EB:139:LEU:HD22	46:EB:170:VAL:HG12	1.76	0.68
46:FJ:73:MET:HA	46:FJ:76:VAL:HG22	1.75	0.68
46:FJ:200:MET:HG3	46:FJ:266:PHE:HB2	1.76	0.68
46:FL:178:THR:HB	46:FL:181:GLU:HG3	1.75	0.68
46:FL:222:TYR:O	46:FL:226:ASN:ND2	2.23	0.68
46:FL:372:THR:HA	46:FL:422:TYR:HE1	1.57	0.68
45:GC:64:ARG:NH1	45:GC:129:CYS:SG	2.67	0.68
45:HI:326:LYS:NZ	46:HL:208:TYR:HB3	2.09	0.68
45:HM:50:ASN:O	45:HM:64:ARG:NH1	2.27	0.68
46:IH:100:ASN:ND2	46:IH:401:GLU:OE1	2.27	0.68
45:JM:112:LYS:HA	45:JM:115:VAL:HG12	1.76	0.68
45:KM:64:ARG:NH1	45:KM:129:CYS:SG	2.67	0.68
46:MH:372:THR:HA	46:MH:422:TYR:HE2	1.59	0.68
46:ML:6:HIS:O	46:ML:63:ALA:HA	1.93	0.68
46:OJ:328:GLU:O	46:OJ:332:ASN:ND2	2.27	0.68
46:PN:11:GLN:NE2	49:PN:502:GDP:O1A	2.27	0.68
46:QL:67:ASP:O	46:QL:92:PHE:HA	1.93	0.68
46:RD:51:TYR:HB3	46:RD:59:TYR:HB3	1.75	0.68
46:SH:83:GLN:O	46:TH:281:TYR:OH	2.11	0.68
45:SK:326:LYS:NZ	45:SK:327:ASP:OD1	2.27	0.68
46:TJ:257:LEU:HD11	46:TJ:314:SER:HB3	1.76	0.68
45:UI:79:ARG:HH21	45:UI:92:LEU:HB2	1.59	0.68
45:WI:222:PRO:HD2	46:WJ:324:LYS:HE3	1.77	0.68
21:2L:643:ARG:NH2	46:CL:357:PRO:O	2.26	0.67
10:2Q:115:LYS:HE3	45:AE:264:ARG:HE	1.57	0.67
36:5D:39:ARG:NH2	45:KK:424:ASP:OD2	2.26	0.67
34:5R:450:ASP:OD2	34:5R:452:THR:OG1	2.11	0.67
44:8R:251:ALA:HB1	46:PF:362:LYS:HE2	1.75	0.67
45:AE:27:GLU:OE2	45:AE:243:ARG:NH2	2.27	0.67
46:BJ:226:ASN:HD21	49:BJ:501:GDP:HN1	1.41	0.67
46:CF:248:SER:HA	46:CF:252:LYS:HD2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CJ:268:ILE:HG22	46:CJ:368:VAL:HG12	1.74	0.67
46:DB:86:ARG:NH1	46:EB:281:TYR:H	1.92	0.67
46:DB:237:THR:HG23	46:DB:241:ARG:HH21	1.59	0.67
46:DF:6:HIS:O	46:DF:63:ALA:HA	1.94	0.67
45:DI:140:SER:OG	47:DI:501:GTP:O2B	2.11	0.67
45:DM:210:TYR:HE1	45:DM:227:LEU:HD11	1.57	0.67
45:EG:247:ALA:HB3	45:EG:355:ILE:HD11	1.76	0.67
45:HK:292:THR:HG21	45:HK:331:SER:HB3	1.75	0.67
46:IB:156:ARG:NH1	46:IB:162:ARG:O	2.26	0.67
45:KC:65:ALA:O	45:KC:91:GLN:NE2	2.27	0.67
45:KG:210:TYR:CE1	46:KH:324:LYS:HB3	2.29	0.67
45:KG:226:ASN:ND2	45:KG:367:ASP:OD2	2.26	0.67
45:MG:282:TYR:OH	45:MG:370:LYS:O	2.11	0.67
45:NA:271:SER:OG	45:NA:301:MET:SD	2.52	0.67
45:NI:250:VAL:HG13	45:NI:254:GLU:HB2	1.76	0.67
45:OG:244:PHE:HB2	45:OG:356:ASN:HD21	1.59	0.67
45:PC:140:SER:OG	47:PD:501:GTP:O2B	2.12	0.67
46:PN:32:PRO:O	46:PN:83:GLN:NE2	2.27	0.67
46:RH:62:ARG:NH1	46:RH:127:CYS:SG	2.67	0.67
45:SA:108:TYR:HA	45:SA:112:LYS:HE3	1.75	0.67
46:TF:191:GLN:NE2	46:TF:195:ASN:OD1	2.27	0.67
45:TK:69:ASP:HB3	45:TK:75:ILE:HD11	1.75	0.67
45:TK:371:VAL:HG12	45:TK:373:ARG:H	1.59	0.67
45:UC:172:TYR:HE1	45:UC:203:MET:HA	1.59	0.67
46:UD:252:LYS:NZ	47:UE:501:GTP:O1G	2.26	0.67
45:UE:292:THR:HG21	45:UE:331:SER:HB3	1.76	0.67
46:UF:372:THR:HA	46:UF:422:TYR:HE2	1.57	0.67
46:VF:273:LEU:H	46:VF:292:GLN:HE22	1.42	0.67
46:VL:304:ASP:OD2	46:VL:307:HIS:ND1	2.25	0.67
46:WF:247:ASN:O	46:WF:252:LYS:NZ	2.27	0.67
45:WK:399:TYR:O	45:WK:402:ARG:NH1	2.27	0.67
45:DC:224:TYR:HD1	45:DC:227:LEU:HD12	1.60	0.67
45:DC:317:MET:HG3	45:DC:377:MET:HB3	1.75	0.67
24:1P:248:LYS:NZ	46:TF:280:GLN:OE1	2.27	0.67
25:1R:458:ILE:HG12	46:FD:276:ARG:HH12	1.57	0.67
14:1V:96:ASN:HD21	46:LJ:262:ARG:HB2	1.57	0.67
25:3R:456:SER:O	46:FL:276:ARG:NH1	2.28	0.67
35:4S:207:SER:OG	35:4S:212:GLU:OE2	2.12	0.67
40:6G:185:TYR:OH	45:UG:123:ARG:NH2	2.27	0.67
34:7R:242:ASN:HB2	45:BA:57:GLY:HA3	1.76	0.67
46:CJ:211:CYS:HA	46:CJ:215:LEU:HD12	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CJ:290:THR:HA	46:CJ:293:MET:HG2	1.76	0.67
46:DL:31:ASP:OD1	46:DL:35:THR:N	2.28	0.67
46:EF:282:ARG:HE	46:EF:283:ALA:H	1.40	0.67
45:EM:66:VAL:HB	45:EM:121:ARG:NH1	2.09	0.67
46:HB:271:ALA:HB2	46:HB:293:MET:HE3	1.75	0.67
46:KJ:318:ARG:HH12	46:KJ:358:PRO:HG3	1.59	0.67
46:LF:392:LYS:HG3	46:LF:395:LEU:HD22	1.76	0.67
46:ND:372:THR:HB	46:ND:426:GLN:HE21	1.60	0.67
46:OL:16:ILE:HD13	46:OL:226:ASN:HD22	1.60	0.67
45:OM:120:ASP:OD1	45:OM:123:ARG:NH2	2.25	0.67
46:QH:390:ARG:HD2	46:QH:391:ARG:HG2	1.76	0.67
45:RE:260:VAL:HG23	46:RF:397:TRP:HZ2	1.59	0.67
46:RF:45:GLU:HG2	46:RF:46:ARG:HG2	1.76	0.67
45:SG:339:ARG:O	45:SG:342:GLN:NE2	2.27	0.67
46:TH:372:THR:HA	46:TH:422:TYR:HE2	1.59	0.67
46:TJ:2:ARG:HH12	45:TK:71:GLU:HG2	1.58	0.67
45:VA:229:ARG:O	45:VA:233:GLN:NE2	2.27	0.67
45:VC:209:ILE:HD11	45:VC:302:MET:HG3	1.76	0.67
45:VG:55:GLU:HG3	45:VG:57:GLY:H	1.59	0.67
45:VG:339:ARG:O	45:VG:342:GLN:NE2	2.26	0.67
46:VN:215:LEU:HB3	46:VN:217:LEU:HD23	1.74	0.67
45:WC:133:GLN:HE22	45:WC:242:LEU:HD21	1.58	0.67
45:WC:174:SER:OG	45:WC:207:GLU:OE1	2.11	0.67
45:DC:109:THR:O	45:DC:112:LYS:NZ	2.27	0.67
8:1H:282:GLN:O	46:HF:276:ARG:NH2	2.26	0.67
19:1J:201:LYS:HB3	45:HG:57:GLY:HA3	1.75	0.67
34:5R:242:ASN:HB2	45:BI:57:GLY:HA3	1.74	0.67
46:AD:135:ILE:HG13	46:AD:152:ILE:HD11	1.76	0.67
45:CA:333:ALA:O	45:CA:337:THR:HG23	1.95	0.67
45:DM:211:ASP:OD1	45:DM:214:ARG:NH2	2.27	0.67
45:EE:76:ASP:OD1	45:EE:79:ARG:NH2	2.21	0.67
46:GD:396:HIS:HA	46:GD:399:THR:HG22	1.75	0.67
46:GH:132:GLY:HA3	46:GH:163:ILE:HG22	1.77	0.67
45:KI:396:ASP:OD1	45:KI:422:ARG:NH1	2.26	0.67
45:KK:49:PHE:HE1	45:KK:55:GLU:HB2	1.59	0.67
45:KM:70:LEU:HD13	45:KM:95:GLY:HA3	1.77	0.67
46:NN:91:VAL:HG21	46:NN:116:VAL:HG12	1.76	0.67
46:PH:256:ASN:ND2	46:PH:350:LYS:HE3	2.10	0.67
45:QE:11:GLN:NE2	47:QE:501:GTP:O1B	2.27	0.67
46:RL:54:ALA:HA	46:SL:283:ALA:HB2	1.74	0.67
46:SB:61:PRO:HG2	46:SB:85:PHE:HA	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:200:MET:HG2	46:SF:266:PHE:HB2	1.77	0.67
45:TC:328:VAL:HG11	45:TC:353:VAL:HG21	1.77	0.67
46:TH:178:THR:HB	46:TH:181:GLU:HG3	1.76	0.67
45:VA:221:ARG:NH1	46:VB:322:SER:OG	2.27	0.67
45:VG:76:ASP:OD2	46:VH:46:ARG:NH2	2.28	0.67
46:WH:273:LEU:H	46:WH:292:GLN:HE22	1.40	0.67
19:1J:49:ARG:NH2	46:HD:54:ALA:O	2.28	0.67
20:1K:187:TYR:OH	46:GD:279:GLN:O	2.06	0.67
26:2W:270:GLU:OE1	45:LK:279:GLU:N	2.26	0.67
40:6G:210:ARG:NH2	46:VF:301:CYS:O	2.27	0.67
45:AG:55:GLU:HG3	45:AG:57:GLY:H	1.59	0.67
46:AJ:73:MET:HA	46:AJ:76:VAL:HG12	1.75	0.67
46:AN:48:ASN:O	46:AN:62:ARG:NH1	2.26	0.67
45:BA:33:ASP:O	45:BA:60:LYS:NZ	2.27	0.67
46:BB:309:ARG:NH1	46:BB:343:GLU:OE1	2.27	0.67
46:CF:268:ILE:HG22	46:CF:368:VAL:HG12	1.75	0.67
45:DE:329:ASN:HA	45:DE:332:ILE:HD12	1.76	0.67
45:DI:15:GLN:NE2	47:DI:501:GTP:O6	2.27	0.67
45:EC:225:THR:HB	45:EC:229:ARG:HH12	1.58	0.67
46:EJ:309:ARG:NH2	46:EJ:426:GLN:O	2.25	0.67
45:FC:271:SER:HA	45:FC:302:MET:HG2	1.75	0.67
45:FK:60:LYS:NZ	45:FK:85:GLN:O	2.26	0.67
46:GD:318:ARG:HB3	46:GD:357:PRO:HA	1.77	0.67
45:JC:9:VAL:HG12	45:JC:68:LEU:HB2	1.76	0.67
46:JJ:139:LEU:HD12	46:JJ:170:VAL:HG12	1.77	0.67
45:KM:308:ARG:NH1	45:KM:340:THR:OG1	2.25	0.67
46:LH:7:ILE:HG22	46:LH:64:ILE:HB	1.76	0.67
45:NI:210:TYR:HE1	45:NI:227:LEU:HD11	1.57	0.67
46:OD:247:ASN:OD1	46:OD:252:LYS:NZ	2.28	0.67
46:PH:200:MET:HG2	46:PH:266:PHE:HB2	1.76	0.67
46:PH:371:SER:O	46:PH:422:TYR:OH	2.12	0.67
45:RC:242:LEU:HD11	45:RC:252:ILE:HD11	1.77	0.67
46:RD:5:VAL:HG12	46:RD:62:ARG:HD3	1.74	0.67
46:SJ:194:GLU:OE2	46:SJ:262:ARG:NH2	2.28	0.67
46:UH:198:GLU:HG2	46:UH:266:PHE:HE2	1.57	0.67
45:UK:123:ARG:HH12	45:UK:127:ASP:HB3	1.59	0.67
46:UN:96:GLY:O	46:UN:103:LYS:NZ	2.27	0.67
45:WA:31:GLN:OE1	45:WA:31:GLN:N	2.27	0.67
45:WC:90:GLU:OE1	45:WC:121:ARG:NH2	2.27	0.67
14:1V:228:HIS:CD2	46:VL:87:PRO:HB3	2.30	0.67
34:7R:470:PHE:HD2	34:7R:471:LEU:HG	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AD:33:THR:O	46:AD:58:ARG:NH1	2.27	0.67
45:AG:260:VAL:HB	46:AJ:397:TRP:CZ2	2.30	0.67
46:AH:73:MET:HA	46:AH:76:VAL:HG12	1.76	0.67
45:AK:406:HIS:HA	45:AK:409:VAL:HG22	1.76	0.67
46:DB:235:GLY:HA3	46:DB:366:THR:HG21	1.75	0.67
46:DB:314:SER:HA	46:DB:350:LYS:HB2	1.76	0.67
45:DE:140:SER:OG	47:DE:501:GTP:O2B	2.13	0.67
45:DG:244:PHE:HB2	45:DG:356:ASN:HD21	1.59	0.67
46:DL:290:THR:HA	46:DL:293:MET:HG2	1.76	0.67
46:EF:54:ALA:HA	46:FF:283:ALA:HB2	1.77	0.67
45:EM:157:LEU:HD22	45:EM:166:LYS:HD3	1.76	0.67
46:GN:316:LEU:HG	46:GN:352:SER:HB2	1.76	0.67
46:HB:139:LEU:HD22	46:HB:170:VAL:HG12	1.76	0.67
46:HB:272:PRO:HD2	46:HB:361:LEU:HD13	1.77	0.67
45:HG:328:VAL:HG11	45:HG:353:VAL:HG21	1.76	0.67
46:HJ:194:GLU:OE2	46:HJ:195:ASN:ND2	2.28	0.67
45:IC:326:LYS:HZ1	46:IF:220:PRO:C	1.98	0.67
46:IJ:8:GLN:HE22	46:IJ:17:GLY:HA3	1.59	0.67
46:IL:222:TYR:O	46:IL:226:ASN:ND2	2.20	0.67
46:JJ:207:LEU:HB3	46:JJ:225:LEU:HD22	1.75	0.67
46:JN:375:GLN:HA	46:JN:378:PHE:HD2	1.58	0.67
45:KK:140:SER:HA	45:KK:171:ILE:HB	1.74	0.67
45:LA:31:GLN:HG3	45:LA:37:PRO:HD3	1.76	0.67
46:OB:309:ARG:NH1	46:OB:343:GLU:OE1	2.28	0.67
45:OC:2:ARG:HH21	45:OC:242:LEU:HA	1.60	0.67
45:OC:224:TYR:O	45:OC:228:ASN:ND2	2.25	0.67
46:RD:405:GLU:HA	46:RD:408:PHE:HD2	1.59	0.67
45:RE:326:LYS:NZ	46:RF:208:TYR:HB3	2.09	0.67
46:RJ:52:ASN:OD1	46:RJ:62:ARG:NH2	2.28	0.67
46:SJ:58:ARG:NH2	46:TJ:280:GLN:O	2.28	0.67
45:SM:9:VAL:HG12	45:SM:68:LEU:HB2	1.76	0.67
46:TD:68:LEU:HB3	46:TD:96:GLY:HA2	1.75	0.67
46:UF:324:LYS:N	45:UG:221:ARG:HH22	1.91	0.67
46:UL:139:LEU:HD13	46:UL:168:SER:HB3	1.77	0.67
45:UM:430:LYS:O	45:UM:433:GLU:HG3	1.94	0.67
46:VD:49:VAL:HG11	46:VD:241:ARG:HG2	1.76	0.67
45:VI:76:ASP:OD2	46:VJ:46:ARG:NH2	2.28	0.67
46:VN:375:GLN:HB2	46:VN:379:LYS:HE2	1.77	0.67
4:2D:99:ARG:HH22	45:EK:364:PRO:HA	1.58	0.67
37:5G:71:PRO:HG3	37:5G:106:VAL:HG13	1.77	0.67
45:BE:135:PHE:HB2	45:BE:166:LYS:HG3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CG:9:VAL:HG12	45:CG:68:LEU:HB3	1.76	0.67
45:DE:292:THR:HG21	45:DE:331:SER:HB2	1.76	0.67
46:EF:183:TYR:HE2	46:EF:388:MET:HB3	1.59	0.67
46:EF:318:ARG:O	46:EF:363:MET:HA	1.95	0.67
46:EL:316:LEU:HG	46:EL:352:SER:HB2	1.76	0.67
45:FM:226:ASN:ND2	45:FM:367:ASP:OD2	2.25	0.67
45:JC:259:LEU:HB3	45:JC:268:MET:HE1	1.76	0.67
45:JE:181:VAL:H	46:JF:350:LYS:HZ3	1.43	0.67
45:JE:254:GLU:OE2	45:JE:352:LYS:NZ	2.27	0.67
46:JL:313:ALA:HB3	46:JL:349:ILE:HG22	1.76	0.67
46:KJ:95:THR:HG21	46:KJ:108:GLU:HG2	1.77	0.67
45:KM:9:VAL:HG12	45:KM:68:LEU:HB2	1.74	0.67
46:MD:286:VAL:HG21	46:MD:325:GLU:HG3	1.76	0.67
45:ME:326:LYS:NZ	46:MH:220:PRO:O	2.26	0.67
45:MK:64:ARG:NH1	45:MK:129:CYS:SG	2.68	0.67
46:NL:326:VAL:O	46:NL:330:MET:HG2	1.94	0.67
45:OI:121:ARG:HD2	45:OI:124:LYS:NZ	2.10	0.67
45:PM:174:SER:OG	45:PM:206:ASN:OD1	2.11	0.67
46:QB:83:GLN:O	46:RB:281:TYR:OH	2.13	0.67
45:RK:124:LYS:NZ	45:SK:294:SER:OG	2.26	0.67
45:SE:371:VAL:HG12	45:SE:373:ARG:H	1.59	0.67
45:TC:133:GLN:HB3	45:TC:252:ILE:HD11	1.77	0.67
46:TF:268:ILE:HG13	46:TF:300:MET:HG3	1.76	0.67
45:TG:326:LYS:HZ1	46:TH:219:THR:HA	1.58	0.67
45:TM:226:ASN:ND2	45:TM:367:ASP:OD1	2.28	0.67
46:UB:210:ILE:HA	46:UB:297:LYS:NZ	2.09	0.67
46:UH:178:THR:HB	46:UH:181:GLU:HG3	1.77	0.67
45:VG:422:ARG:HH12	45:VG:426:ALA:HB2	1.58	0.67
37:5F:179:TYR:HD1	45:KG:410:GLY:HA2	1.59	0.67
45:AA:292:THR:HG21	45:AA:331:SER:HB3	1.75	0.67
45:AI:288:VAL:HG11	45:AI:327:ASP:HB3	1.74	0.67
45:CA:292:THR:HG21	45:CA:331:SER:HB3	1.77	0.67
46:CB:321:MET:HB2	45:CC:221:ARG:HH21	1.59	0.67
45:CK:70:LEU:HD13	45:CK:95:GLY:HA3	1.77	0.67
45:CM:254:GLU:HG2	46:CN:98:GLY:HA2	1.77	0.67
45:DE:141:VAL:HG11	45:DE:172:TYR:HD1	1.60	0.67
45:EM:276:ILE:HG13	45:EM:280:LYS:HE3	1.76	0.67
46:FN:67:ASP:O	46:FN:92:PHE:HA	1.95	0.67
46:FN:257:LEU:HD11	46:FN:314:SER:HB2	1.76	0.67
46:HF:267:MET:HE3	46:HF:374:ILE:HG22	1.76	0.67
45:IE:292:THR:HG21	45:IE:331:SER:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IJ:226:ASN:HD21	49:IJ:501:GDP:HN1	1.42	0.67
46:JN:276:ARG:HA	46:JN:279:GLN:HE22	1.59	0.67
46:KB:52:ASN:OD1	46:KB:62:ARG:NH2	2.28	0.67
46:KD:322:SER:OG	46:KD:325:GLU:OE1	2.13	0.67
46:KN:31:ASP:OD1	46:KN:35:THR:N	2.27	0.67
45:MA:292:THR:HG21	45:MA:331:SER:HB2	1.76	0.67
45:MG:292:THR:HG21	45:MG:331:SER:HB3	1.75	0.67
45:OA:288:VAL:HG21	45:OA:327:ASP:HB3	1.77	0.67
46:OD:1:MET:N	46:OD:48:ASN:OD1	2.27	0.67
46:OD:285:THR:HG23	46:OD:287:PRO:HD2	1.76	0.67
45:OE:286:LEU:N	45:OE:290:GLU:OE2	2.27	0.67
45:PA:221:ARG:NH1	46:PB:322:SER:OG	2.27	0.67
46:PH:236:VAL:HG13	46:PH:237:THR:HG23	1.75	0.67
46:QF:49:VAL:HG23	46:QF:50:TYR:HD1	1.60	0.67
45:SG:164:LYS:HD3	45:SG:165:SER:H	1.59	0.67
46:UF:48:ASN:O	46:UF:62:ARG:NH1	2.25	0.67
46:UJ:49:VAL:HG11	46:UJ:241:ARG:HG2	1.75	0.67
45:UK:88:HIS:NE2	45:VI:284:GLU:OE2	2.28	0.67
46:VH:77:ARG:NH1	46:VH:82:GLY:O	2.27	0.67
45:VK:140:SER:OG	47:VK:501:GTP:O2B	2.13	0.67
46:WN:73:MET:HA	46:WN:76:VAL:HG12	1.77	0.67
19:1J:77:TYR:HB2	45:IC:371:VAL:HG12	1.77	0.67
39:6F:124:ARG:O	39:6F:128:THR:N	2.28	0.67
40:6G:241:LYS:HE3	46:VD:336:LYS:HD2	1.77	0.67
10:6Q:71:ILE:HG22	10:6Q:73:LEU:H	1.60	0.67
45:AA:108:TYR:O	45:AA:112:LYS:NZ	2.25	0.67
45:AK:387:VAL:HG12	45:AK:390:ARG:HH12	1.60	0.67
46:CB:314:SER:HA	46:CB:350:LYS:HB2	1.77	0.67
46:CH:252:LYS:O	46:CH:256:ASN:ND2	2.28	0.67
45:CI:141:VAL:HG11	45:CI:172:TYR:HD1	1.60	0.67
46:EL:207:LEU:HB3	46:EL:225:LEU:HD22	1.75	0.67
45:FC:9:VAL:HG12	45:FC:68:LEU:HB2	1.75	0.67
46:FF:64:ILE:HD13	46:FF:119:VAL:HG13	1.77	0.67
45:GI:108:TYR:HA	45:GI:112:LYS:HE3	1.76	0.67
45:GK:76:ASP:OD1	45:GK:79:ARG:NH2	2.28	0.67
46:IB:222:TYR:O	46:IB:226:ASN:ND2	2.24	0.67
46:IF:200:MET:HG3	46:IF:266:PHE:HB2	1.76	0.67
45:IG:121:ARG:HH11	45:IG:121:ARG:HA	1.60	0.67
45:IG:176:GLN:HG2	45:IG:177:VAL:HG23	1.77	0.67
46:JN:141:GLY:O	46:JN:145:SER:OG	2.08	0.67
45:KK:11:GLN:HG3	45:KK:74:VAL:HG21	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KK:226:ASN:ND2	45:KK:367:ASP:OD2	2.27	0.67
46:LD:62:ARG:NH1	46:LD:127:CYS:SG	2.68	0.67
45:LI:223:THR:HG22	45:LI:224:TYR:H	1.59	0.67
45:OA:90:GLU:OE2	45:OA:121:ARG:NH1	2.28	0.67
46:OF:198:GLU:HG2	46:OF:266:PHE:HE2	1.59	0.67
45:OK:399:TYR:OH	45:OK:415:GLU:OE2	2.13	0.67
45:SE:64:ARG:NH1	45:SE:129:CYS:SG	2.68	0.67
46:SF:371:SER:O	46:SF:422:TYR:OH	2.13	0.67
46:TB:251:ARG:NH2	45:TC:98:ASP:O	2.28	0.67
46:UB:333:VAL:HA	46:UB:336:LYS:HZ2	1.59	0.67
45:UE:288:VAL:HG11	45:UE:327:ASP:HB3	1.75	0.67
45:UI:33:ASP:HA	45:UI:85:GLN:HE21	1.59	0.67
46:UL:67:ASP:O	46:UL:92:PHE:HA	1.94	0.67
45:UM:229:ARG:O	45:UM:233:GLN:NE2	2.28	0.67
46:VB:273:LEU:N	46:VB:292:GLN:OE1	2.27	0.67
46:VD:222:TYR:O	46:VD:226:ASN:ND2	2.22	0.67
45:VG:292:THR:HG21	45:VG:331:SER:HB3	1.75	0.67
45:VK:292:THR:HG21	45:VK:331:SER:HB3	1.74	0.67
45:WA:1:MET:SD	46:WD:94:GLN:NE2	2.66	0.67
46:WD:7:ILE:HG13	46:WD:135:ILE:HG13	1.77	0.67
20:1K:186:LEU:HB3	46:GD:362:LYS:HZ1	1.59	0.67
45:EE:60:LYS:NZ	45:EE:85:GLN:O	2.28	0.67
45:EK:188:ILE:HD12	45:EK:425:LEU:HD11	1.76	0.67
45:FA:206:ASN:OD1	47:FA:501:GTP:N2	2.27	0.67
45:FK:120:ASP:OD1	45:FK:123:ARG:NH2	2.26	0.67
46:ID:130:LEU:O	46:ID:162:ARG:NH1	2.28	0.67
45:IE:55:GLU:HG3	45:IE:57:GLY:H	1.60	0.67
46:IH:207:LEU:HD22	46:IH:228:LEU:HD11	1.75	0.67
45:JC:141:VAL:HG11	45:JC:172:TYR:HD1	1.60	0.67
46:LJ:362:LYS:HG2	46:LJ:363:MET:HG3	1.76	0.67
45:MK:326:LYS:HZ3	46:MN:208:TYR:HB3	1.60	0.67
46:PF:207:LEU:HB3	46:PF:225:LEU:HD22	1.76	0.67
46:PF:237:THR:HG23	46:PF:241:ARG:HH21	1.59	0.67
45:PK:242:LEU:HD11	45:PK:252:ILE:HG12	1.77	0.67
46:QD:73:MET:HA	46:QD:76:VAL:HG12	1.77	0.67
45:QI:188:ILE:HD12	45:QI:425:LEU:HD11	1.77	0.67
45:RM:55:GLU:HG3	45:RM:57:GLY:H	1.60	0.67
45:SC:134:GLY:HA2	45:SC:164:LYS:HE2	1.76	0.67
45:SG:402:ARG:HH22	45:SG:406:HIS:HB3	1.59	0.67
46:SH:139:LEU:HD22	46:SH:170:VAL:HG12	1.77	0.67
45:TG:226:ASN:ND2	45:TG:367:ASP:OD2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TJ:1:MET:N	46:TJ:3:GLU:OE1	2.28	0.67
45:TM:399:TYR:O	45:TM:402:ARG:NH2	2.28	0.67
45:VA:271:SER:HA	45:VA:302:MET:HG2	1.76	0.67
46:VJ:16:ILE:HD12	46:VJ:229:VAL:HG11	1.77	0.67
45:WM:90:GLU:OE1	45:WM:121:ARG:NH1	2.28	0.67
37:5G:173:LYS:HD3	46:KL:194:GLU:HA	1.76	0.67
46:AF:286:VAL:HG21	46:AF:325:GLU:HB3	1.76	0.67
45:AM:406:HIS:HA	45:AM:409:VAL:HG12	1.77	0.67
46:BJ:135:ILE:HG13	46:BJ:152:ILE:HD11	1.77	0.67
46:BN:90:PHE:HB3	46:BN:92:PHE:HE2	1.60	0.67
46:DD:86:ARG:NH1	46:ED:281:TYR:HB2	2.10	0.67
45:DE:345:ASP:OD1	46:DF:390:ARG:NH2	2.26	0.67
46:EB:223:GLY:O	46:EB:227:HIS:ND1	2.28	0.67
45:EG:89:PRO:HG2	45:FE:280:LYS:HE2	1.76	0.67
45:EM:63:PRO:HG2	45:EM:87:PHE:HD1	1.60	0.67
45:EM:301:MET:HG3	45:EM:303:ALA:H	1.59	0.67
45:GC:101:ASN:HA	45:GC:144:GLY:H	1.60	0.67
45:IE:406:HIS:HA	45:IE:409:VAL:HG12	1.77	0.67
45:JG:296:PHE:HD2	45:JG:341:ILE:HD13	1.60	0.67
45:KI:65:ALA:O	45:KI:91:GLN:NE2	2.27	0.67
45:MC:255:PHE:HA	45:MC:259:LEU:HD23	1.76	0.67
45:MG:226:ASN:ND2	45:MG:367:ASP:OD2	2.28	0.67
46:MH:31:ASP:OD1	46:MH:37:HIS:ND1	2.28	0.67
46:MJ:284:LEU:HD21	46:MJ:363:MET:HB2	1.75	0.67
46:NB:221:THR:HG23	46:NB:223:GLY:H	1.58	0.67
45:PA:55:GLU:HG3	45:PA:57:GLY:H	1.59	0.67
45:PG:387:VAL:HA	45:PG:390:ARG:HD3	1.76	0.67
46:PN:108:GLU:HG3	46:PN:112:LEU:HD23	1.76	0.67
45:QK:108:TYR:O	45:QK:112:LYS:NZ	2.28	0.67
46:RD:257:LEU:O	46:RD:370:ASN:ND2	2.28	0.67
46:RF:12:CYS:HA	46:RF:15:GLN:HE21	1.60	0.67
46:RL:6:HIS:CD2	46:RL:8:GLN:HE22	2.13	0.67
45:SC:387:VAL:HG12	45:SC:390:ARG:HH22	1.59	0.67
46:SL:60:VAL:HG21	46:SL:86:ARG:HG2	1.76	0.67
46:SL:200:MET:HE1	46:SL:266:PHE:HB2	1.76	0.67
46:TB:324:LYS:HG2	45:TC:222:PRO:HG2	1.77	0.67
45:TE:316:SER:HA	45:TE:352:LYS:HB2	1.76	0.67
46:TJ:372:THR:HA	46:TJ:422:TYR:HE2	1.60	0.67
46:TL:2:ARG:HH12	45:TM:71:GLU:HG2	1.60	0.67
46:UD:258:ILE:HD12	46:UD:264:HIS:HB3	1.76	0.67
46:UJ:96:GLY:O	46:UJ:103:LYS:NZ	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WJ:6:HIS:NE2	46:WJ:8:GLN:OE1	2.28	0.67
19:1J:330:LYS:O	46:HN:77:ARG:NH2	2.28	0.66
33:4F:229:ARG:NH1	46:HN:41:ASP:OD2	2.28	0.66
46:AB:309:ARG:H	46:AB:426:GLN:HE22	1.43	0.66
45:EE:209:ILE:HD12	45:EE:227:LEU:HB3	1.77	0.66
45:EE:296:PHE:HE2	45:EE:377:MET:HG3	1.60	0.66
45:HA:221:ARG:NH1	46:HB:322:SER:OG	2.28	0.66
46:IB:83:GLN:HE21	46:IB:84:LEU:HD22	1.59	0.66
47:IG:501:GTP:O1G	46:IH:252:LYS:NZ	2.29	0.66
46:IJ:86:ARG:CZ	45:JG:283:HIS:HB2	2.25	0.66
46:KD:31:ASP:OD1	46:KD:35:THR:N	2.27	0.66
45:KE:407:TRP:CZ3	46:KF:255:VAL:HA	2.30	0.66
46:MB:420:SER:O	46:MB:424:GLN:NE2	2.28	0.66
46:NH:390:ARG:O	46:NH:392:LYS:NZ	2.27	0.66
46:PF:178:THR:HG22	46:PF:180:VAL:H	1.58	0.66
45:PG:260:VAL:HG23	46:PJ:397:TRP:HE1	1.60	0.66
45:RA:326:LYS:HD3	46:RB:212:PHE:HZ	1.59	0.66
45:SE:76:ASP:OD1	45:SE:79:ARG:NH2	2.28	0.66
45:TA:226:ASN:ND2	45:TA:367:ASP:OD2	2.28	0.66
46:TD:293:MET:SD	46:TD:367:PHE:HB2	2.34	0.66
45:TG:288:VAL:HG11	45:TG:327:ASP:HB3	1.76	0.66
46:UD:282:ARG:NH2	46:UD:292:GLN:OE1	2.28	0.66
45:VA:222:PRO:HD2	46:VB:324:LYS:HE3	1.77	0.66
45:VK:101:ASN:HA	45:VK:144:GLY:H	1.60	0.66
1:0A:139:GLN:OE1	46:AB:320:ARG:NH1	2.28	0.66
15:0X:42:LYS:HG2	45:LA:58:ALA:HB3	1.76	0.66
34:6R:182:ASP:OD1	34:6R:183:CYS:N	2.27	0.66
45:AI:259:LEU:HD11	45:AI:316:SER:HB3	1.77	0.66
45:BI:241:SER:OG	45:BI:250:VAL:O	2.12	0.66
46:CD:346:PRO:HD2	45:CE:398:MET:HE3	1.76	0.66
46:DD:324:LYS:HE3	45:DE:210:TYR:CG	2.31	0.66
46:DN:282:ARG:NH2	46:DN:292:GLN:OE1	2.28	0.66
46:EB:42:LEU:HA	46:EB:45:GLU:HG3	1.76	0.66
45:EC:288:VAL:HA	45:EC:291:ILE:HG12	1.76	0.66
46:FL:67:ASP:O	46:FL:92:PHE:HA	1.94	0.66
46:GJ:262:ARG:NH1	46:GJ:421:GLU:OE2	2.27	0.66
45:HK:402:ARG:NH2	45:HK:415:GLU:OE1	2.28	0.66
45:II:210:TYR:CZ	45:II:227:LEU:HD11	2.29	0.66
46:LF:334:GLN:HE22	46:LF:348:ASN:H	1.43	0.66
45:LG:88:HIS:NE2	45:MG:284:GLU:OE2	2.28	0.66
46:MB:49:VAL:HG21	46:MB:241:ARG:HG2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NL:318:ARG:HG2	46:NL:357:PRO:HA	1.77	0.66
46:QB:218:THR:HG23	46:QB:219:THR:HG23	1.76	0.66
46:QF:287:PRO:HA	46:QF:329:GLN:HE22	1.59	0.66
46:QJ:344:TRP:HB3	46:QJ:430:ALA:HB2	1.76	0.66
46:RD:139:LEU:HD22	46:RD:170:VAL:HG12	1.77	0.66
46:RJ:272:PRO:HG3	46:RJ:289:LEU:HD21	1.77	0.66
46:SH:107:THR:OG1	46:SH:108:GLU:OE1	2.13	0.66
45:TC:174:SER:HB2	45:TC:177:VAL:HB	1.76	0.66
46:UH:267:MET:HB3	46:UH:299:MET:HE2	1.77	0.66
45:UK:226:ASN:ND2	45:UK:367:ASP:OD2	2.28	0.66
46:VB:67:ASP:O	46:VB:92:PHE:HA	1.95	0.66
46:VF:285:THR:HB	46:VF:287:PRO:HD2	1.77	0.66
46:WH:48:ASN:O	46:WH:62:ARG:NH1	2.28	0.66
23:2O:257:GLN:HG2	45:UI:58:ALA:HB3	1.75	0.66
27:4C:295:VAL:O	46:KN:320:ARG:NH2	2.27	0.66
39:6F:11:THR:O	45:IE:96:LYS:NZ	2.29	0.66
46:AF:222:TYR:O	46:AF:226:ASN:ND2	2.24	0.66
45:BC:101:ASN:HA	45:BC:144:GLY:H	1.58	0.66
46:BH:209:ASP:OD1	46:BH:213:ARG:NH2	2.28	0.66
45:BK:254:GLU:OE1	46:BN:99:ASN:ND2	2.28	0.66
45:CI:292:THR:HG21	45:CI:331:SER:HB3	1.78	0.66
45:DM:288:VAL:HG11	45:DM:327:ASP:HB3	1.78	0.66
46:FD:31:ASP:OD1	46:FD:35:THR:N	2.24	0.66
45:GG:338:LYS:HZ2	45:GG:340:THR:H	1.41	0.66
46:HL:7:ILE:HB	46:HL:135:ILE:HG12	1.77	0.66
46:IJ:372:THR:HA	46:IJ:422:TYR:HE1	1.60	0.66
45:IK:254:GLU:OE2	45:IK:257:THR:OG1	2.14	0.66
45:KE:407:TRP:HZ3	46:KF:255:VAL:HA	1.60	0.66
46:KN:52:ASN:OD1	46:KN:62:ARG:NH2	2.29	0.66
46:OB:222:TYR:O	46:OB:226:ASN:ND2	2.28	0.66
45:OK:136:LEU:HD13	45:OK:167:LEU:HB2	1.77	0.66
46:PJ:276:ARG:HA	46:PJ:279:GLN:HE22	1.60	0.66
46:RL:207:LEU:HB3	46:RL:225:LEU:HD22	1.76	0.66
45:RM:254:GLU:HG2	46:RN:98:GLY:HA2	1.76	0.66
46:RN:207:LEU:HB3	46:RN:225:LEU:HD22	1.75	0.66
46:SH:61:PRO:HG2	46:SH:85:PHE:HA	1.76	0.66
45:TC:136:LEU:HD22	45:TC:169:PHE:HE2	1.61	0.66
46:TH:67:ASP:O	46:TH:92:PHE:HA	1.96	0.66
45:UK:352:LYS:NZ	46:UL:178:THR:HA	2.10	0.66
46:UL:331:LEU:HD22	45:UM:176:GLN:HE22	1.60	0.66
46:VH:396:HIS:HA	46:VH:399:THR:HG22	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:54:SER:HB3	45:WA:64:ARG:HE	1.61	0.66
46:WB:182:PRO:HB2	46:WB:388:MET:HE1	1.76	0.66
27:3C:218:ARG:HD3	46:KB:320:ARG:HH11	1.60	0.66
37:5F:63:HIS:CD2	46:NF:58:ARG:HD3	2.30	0.66
35:5S:150:LEU:HB3	35:5S:189:VAL:HG11	1.76	0.66
34:7R:389:ASN:H	46:EB:276:ARG:HH22	1.43	0.66
45:AG:326:LYS:HD3	46:AJ:208:TYR:HD1	1.60	0.66
46:CJ:316:LEU:HD13	46:CJ:352:SER:HB2	1.76	0.66
45:CM:33:ASP:HA	45:CM:85:GLN:HE21	1.58	0.66
46:DF:207:LEU:HB3	46:DF:225:LEU:HD22	1.76	0.66
45:DM:174:SER:OG	45:DM:206:ASN:ND2	2.28	0.66
45:EC:229:ARG:HG2	45:EC:363:VAL:HG11	1.76	0.66
45:EE:258:ASN:HD21	46:EF:178:THR:HG23	1.60	0.66
45:HE:56:THR:HG23	45:HE:58:ALA:H	1.61	0.66
46:HN:273:LEU:H	46:HN:292:GLN:HE22	1.43	0.66
46:JJ:372:THR:HA	46:JJ:422:TYR:HE2	1.60	0.66
45:JM:67:PHE:HD2	45:JM:92:LEU:HG	1.61	0.66
45:NK:292:THR:HG21	45:NK:331:SER:HB3	1.77	0.66
46:OH:207:LEU:HB3	46:OH:225:LEU:HD22	1.77	0.66
46:OL:309:ARG:NH2	46:OL:341:PHE:O	2.28	0.66
45:PE:5:ILE:HD11	45:PE:135:PHE:HE2	1.60	0.66
45:QG:211:ASP:HA	45:QG:214:ARG:HE	1.60	0.66
46:RB:99:ASN:HA	46:RB:142:GLY:H	1.60	0.66
46:RF:207:LEU:HB3	46:RF:225:LEU:HD22	1.77	0.66
46:RF:371:SER:O	46:RF:422:TYR:OH	2.13	0.66
46:RJ:289:LEU:HD13	46:RJ:365:VAL:HG23	1.75	0.66
45:RK:7:ILE:HG22	45:RK:66:VAL:HG12	1.77	0.66
46:TB:21:TRP:HA	46:TB:24:ILE:HG22	1.76	0.66
46:TF:67:ASP:O	46:TF:92:PHE:HA	1.96	0.66
45:TM:121:ARG:HH11	45:TM:124:LYS:HE2	1.59	0.66
45:UI:258:ASN:HB3	45:UI:352:LYS:HD2	1.77	0.66
46:UL:238:CYS:SG	46:UL:318:ARG:NH1	2.68	0.66
45:VG:120:ASP:OD1	45:VG:123:ARG:NH2	2.29	0.66
46:WB:334:GLN:HA	46:WB:341:PHE:HE2	1.61	0.66
46:WJ:322:SER:OG	46:WJ:325:GLU:OE1	2.14	0.66
45:CE:211:ASP:HB3	45:CE:215:ARG:HH22	1.59	0.66
4:1D:11:VAL:HG21	45:CG:79:ARG:HD2	1.76	0.66
21:1L:751:ARG:NH2	46:BD:357:PRO:O	2.27	0.66
28:2F:94:HIS:ND1	45:HE:297:GLU:OE2	2.29	0.66
36:5A:79:LEU:HD21	46:NB:245:GLN:HE22	1.60	0.66
45:AK:118:CYS:O	45:AK:122:ILE:HG12	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:100:ASN:ND2	46:CN:401:GLU:OE1	2.28	0.66
45:EG:55:GLU:HG3	45:EG:57:GLY:H	1.61	0.66
45:EK:140:SER:OG	47:EK:501:GTP:O2B	2.14	0.66
46:EL:83:GLN:O	46:FL:281:TYR:OH	2.13	0.66
45:EM:353:VAL:HG12	46:EN:177:ASP:HA	1.78	0.66
46:FD:67:ASP:O	46:FD:92:PHE:HA	1.94	0.66
46:GN:222:TYR:O	46:GN:226:ASN:ND2	2.25	0.66
45:HG:145:THR:OG1	47:HG:501:GTP:O1B	2.13	0.66
45:IA:292:THR:HG21	45:IA:331:SER:HB3	1.76	0.66
45:IK:326:LYS:NZ	46:IN:220:PRO:O	2.27	0.66
46:IN:148:GLY:O	46:IN:152:ILE:HG12	1.96	0.66
46:JB:278:SER:HA	46:JB:281:TYR:HB2	1.77	0.66
46:JD:316:LEU:HD13	46:JD:352:SER:HB2	1.76	0.66
45:JK:116:ASP:OD1	45:JK:117:LEU:N	2.28	0.66
45:KC:206:ASN:OD1	47:KC:501:GTP:N2	2.28	0.66
46:KD:49:VAL:HG11	46:KD:241:ARG:HG2	1.76	0.66
46:KD:309:ARG:NH2	46:KD:426:GLN:O	2.28	0.66
45:KK:157:LEU:HD11	45:KK:166:LYS:HD3	1.76	0.66
45:LG:399:TYR:O	45:LG:402:ARG:NH1	2.28	0.66
46:MH:67:ASP:O	46:MH:92:PHE:HA	1.95	0.66
45:NI:80:THR:O	45:NI:84:ARG:NH2	2.28	0.66
45:OG:70:LEU:HD13	45:OG:95:GLY:HA3	1.76	0.66
45:OK:90:GLU:OE1	45:OK:121:ARG:NH1	2.28	0.66
45:OM:220:GLU:O	45:OM:221:ARG:NH1	2.29	0.66
46:PD:260:PHE:HB2	46:PD:263:LEU:HD13	1.77	0.66
46:PJ:164:MET:HB3	46:PJ:197:ASP:H	1.59	0.66
45:PK:326:LYS:HD3	46:PN:212:PHE:HZ	1.60	0.66
46:RF:215:LEU:HD11	46:RF:273:LEU:HD12	1.78	0.66
46:RL:31:ASP:OD2	46:RL:37:HIS:ND1	2.28	0.66
46:SL:238:CYS:HB3	46:SL:318:ARG:NH1	2.11	0.66
45:TI:141:VAL:HG11	45:TI:172:TYR:HD1	1.61	0.66
46:WB:248:SER:HA	46:WB:252:LYS:HG3	1.76	0.66
45:WK:145:THR:OG1	47:WK:501:GTP:O1B	2.13	0.66
37:5H:71:PRO:HB2	37:5H:103:ARG:HB3	1.78	0.66
34:5R:20:HIS:O	34:5R:25:HIS:NE2	2.26	0.66
34:7R:556:ILE:HD11	34:7R:569:PHE:HA	1.78	0.66
45:AE:285:GLN:HE22	45:ME:56:THR:HA	1.60	0.66
45:AE:326:LYS:HZ3	46:AH:219:THR:HG22	1.60	0.66
45:CA:212:ILE:HD13	45:CA:215:ARG:HH12	1.60	0.66
46:CF:256:ASN:HB3	46:CF:350:LYS:HE3	1.78	0.66
46:CL:236:VAL:HG13	46:CL:237:THR:HG23	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DA:313:MET:HG2	45:DA:381:SER:HA	1.77	0.66
46:DB:5:VAL:HG12	46:DB:62:ARG:HD3	1.78	0.66
46:EH:73:MET:HA	46:EH:76:VAL:HG12	1.78	0.66
45:EM:209:ILE:HD12	45:EM:227:LEU:HB3	1.77	0.66
46:HB:167:PHE:CE2	46:HB:233:MET:HG2	2.31	0.66
45:HC:64:ARG:NH1	45:HC:129:CYS:SG	2.69	0.66
46:HH:178:THR:HB	46:HH:181:GLU:HG3	1.77	0.66
46:HL:121:ARG:NH1	46:HL:158:GLU:OE2	2.29	0.66
46:ID:386:THR:OG1	46:ID:390:ARG:NH1	2.29	0.66
46:KL:322:SER:OG	46:KL:325:GLU:OE1	2.13	0.66
45:MA:288:VAL:HG11	45:MA:327:ASP:HB3	1.77	0.66
45:NG:221:ARG:NH1	46:NH:325:GLU:OE2	2.28	0.66
46:OJ:200:MET:SD	46:OJ:266:PHE:HB2	2.36	0.66
45:PA:2:ARG:HH22	46:PD:69:GLU:HG2	1.61	0.66
46:PL:389:PHE:HZ	46:PL:405:GLU:HG3	1.59	0.66
45:QA:33:ASP:HA	45:QA:85:GLN:HE21	1.61	0.66
46:QB:207:LEU:HD13	46:QB:225:LEU:HB3	1.77	0.66
45:QM:140:SER:OG	47:QM:501:GTP:O2B	2.13	0.66
46:RD:83:GLN:O	46:SD:281:TYR:OH	2.10	0.66
46:RF:166:THR:OG1	46:RF:199:CYS:SG	2.53	0.66
45:SC:170:THR:O	45:SC:204:LEU:HB2	1.96	0.66
46:SL:52:ASN:OD1	46:SL:62:ARG:NH2	2.29	0.66
46:TH:100:ASN:HD22	46:TH:103:LYS:HG2	1.61	0.66
46:UD:67:ASP:O	46:UD:92:PHE:HA	1.95	0.66
46:UF:135:ILE:HG13	46:UF:152:ILE:HD11	1.77	0.66
45:VI:292:THR:HG21	45:VI:331:SER:HB3	1.77	0.66
46:WB:260:PHE:HB2	46:WB:263:LEU:HD13	1.77	0.66
46:WD:173:PRO:HA	46:WD:176:SER:HB3	1.77	0.66
46:WL:1:MET:N	46:WL:3:GLU:OE2	2.27	0.66
36:5D:70:MET:O	46:NN:359:LYS:NZ	2.25	0.66
34:7R:49:ASN:OD1	34:7R:50:ASP:N	2.29	0.66
45:AE:326:LYS:HD3	46:AH:220:PRO:HD2	1.78	0.66
45:AI:55:GLU:HG3	45:AI:57:GLY:H	1.60	0.66
46:BD:83:GLN:O	46:CB:281:TYR:OH	2.12	0.66
45:BK:352:LYS:HZ3	46:BN:178:THR:HA	1.59	0.66
46:CB:290:THR:HA	46:CB:293:MET:HG2	1.77	0.66
45:CC:324:VAL:HG12	45:CC:326:LYS:HG2	1.77	0.66
46:CF:135:ILE:HG13	46:CF:152:ILE:HD11	1.78	0.66
46:CF:330:MET:HE2	46:CF:349:ILE:HG21	1.77	0.66
46:FH:309:ARG:NH2	46:FH:426:GLN:O	2.28	0.66
45:FM:27:GLU:HB2	45:FM:361:THR:HG21	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FM:51:THR:O	45:FM:64:ARG:NH1	2.28	0.66
45:HM:100:ALA:HA	46:HN:252:LYS:HG2	1.78	0.66
45:JG:292:THR:HG21	45:JG:331:SER:HB2	1.78	0.66
46:LF:334:GLN:NE2	46:LF:348:ASN:OD1	2.29	0.66
45:LK:2:ARG:HH21	46:LN:71:GLY:HA2	1.61	0.66
45:MG:260:VAL:HB	46:MJ:397:TRP:CZ2	2.30	0.66
46:NL:68:LEU:HB3	46:NL:96:GLY:HA2	1.78	0.66
45:QC:292:THR:HG21	45:QC:331:SER:HB2	1.78	0.66
45:QG:15:GLN:NE2	47:QG:501:GTP:O6	2.28	0.66
45:QG:244:PHE:HB2	45:QG:356:ASN:HD21	1.59	0.66
46:TB:91:VAL:HG21	46:TB:116:VAL:HB	1.76	0.66
45:TC:399:TYR:O	45:TC:402:ARG:NH2	2.28	0.66
45:UG:260:VAL:HB	46:UH:397:TRP:CZ2	2.31	0.66
46:VH:67:ASP:O	46:VH:92:PHE:HA	1.96	0.66
16:3B:220:GLN:HA	45:KG:221:ARG:HB2	1.77	0.66
37:5F:157:ARG:NH2	46:NH:37:HIS:HA	2.11	0.66
45:AA:328:VAL:HG11	45:AA:353:VAL:HG21	1.78	0.66
45:AM:288:VAL:HG11	45:AM:327:ASP:HB3	1.77	0.66
45:CK:402:ARG:NH2	45:CK:415:GLU:OE2	2.29	0.66
45:EK:80:THR:O	45:EK:84:ARG:NH2	2.27	0.66
45:EM:140:SER:OG	47:EM:501:GTP:O2B	2.14	0.66
46:ID:396:HIS:HA	46:ID:399:THR:HG22	1.77	0.66
45:KC:11:GLN:NE2	46:KD:245:GLN:O	2.29	0.66
46:LD:200:MET:HG2	46:LD:266:PHE:HB2	1.77	0.66
46:ND:178:THR:HG22	46:ND:180:VAL:H	1.60	0.66
46:NH:67:ASP:O	46:NH:92:PHE:HA	1.96	0.66
45:OI:121:ARG:HA	45:OI:124:LYS:HZ3	1.60	0.66
46:PB:314:SER:HA	46:PB:350:LYS:HB2	1.77	0.66
46:PD:11:GLN:HA	46:PD:14:ASN:HD22	1.61	0.66
46:QB:266:PHE:HE1	46:QB:370:ASN:HB2	1.61	0.66
45:RE:206:ASN:OD1	47:RE:501:GTP:N2	2.27	0.66
46:RN:273:LEU:H	46:RN:292:GLN:HE22	1.44	0.66
45:TK:108:TYR:O	45:TK:112:LYS:NZ	2.29	0.66
45:UK:101:ASN:HA	45:UK:144:GLY:H	1.60	0.66
46:UL:322:SER:OG	46:UL:325:GLU:OE2	2.12	0.66
46:VH:94:GLN:HG2	46:VH:95:THR:HG23	1.78	0.66
45:WC:244:PHE:HB2	45:WC:356:ASN:HD21	1.60	0.66
46:WN:48:ASN:O	46:WN:62:ARG:NH1	2.27	0.66
4:0D:6:ARG:HD3	46:CB:41:ASP:HB3	1.77	0.66
6:0F:75:ARG:NH2	46:ED:357:PRO:O	2.29	0.66
21:2L:545:GLU:HG3	45:BM:278:ALA:HB3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:406:ARG:HG3	46:VD:276:ARG:HH21	1.60	0.66
36:5C:167:LYS:NZ	45:NK:278:ALA:O	2.27	0.66
37:5G:113:LEU:HD11	45:NI:84:ARG:HE	1.61	0.66
10:5Q:74:PRO:HD2	10:5Q:169:ASP:HA	1.78	0.66
34:5R:573:LEU:HD21	34:5R:580:LEU:HD13	1.76	0.66
46:AH:309:ARG:NH2	46:AH:426:GLN:O	2.24	0.66
46:AL:32:PRO:HA	46:AL:84:LEU:HD11	1.78	0.66
45:BE:328:VAL:HG11	45:BE:353:VAL:HG21	1.76	0.66
45:BM:71:GLU:OE2	46:BN:2:ARG:NH2	2.29	0.66
46:DB:100:ASN:ND2	46:DB:401:GLU:OE1	2.29	0.66
46:DL:73:MET:HA	46:DL:76:VAL:HG12	1.78	0.66
46:EJ:209:ASP:OD1	46:EJ:213:ARG:NE	2.29	0.66
46:FD:42:LEU:HA	46:FD:45:GLU:HG3	1.78	0.66
46:GN:318:ARG:HE	46:GN:358:PRO:HG3	1.61	0.66
45:HC:402:ARG:NH2	45:HC:415:GLU:OE1	2.29	0.66
45:HK:288:VAL:HG11	45:HK:327:ASP:HB3	1.77	0.66
45:IA:352:LYS:HZ1	46:ID:179:VAL:H	1.42	0.66
45:IC:288:VAL:HG11	45:IC:327:ASP:HB3	1.77	0.66
45:JE:181:VAL:N	46:JF:350:LYS:HZ3	1.94	0.66
45:JK:222:PRO:HD2	46:JL:324:LYS:NZ	2.11	0.66
45:KA:75:ILE:HD11	45:KA:92:LEU:HB3	1.78	0.66
46:KL:73:MET:HA	46:KL:76:VAL:HG12	1.76	0.66
45:LI:9:VAL:HG12	45:LI:68:LEU:HB2	1.76	0.66
45:LK:325:PRO:HA	45:LK:328:VAL:HG12	1.78	0.66
45:MC:224:TYR:HE2	46:MD:246:LEU:HD11	1.61	0.66
46:MH:96:GLY:O	46:MH:103:LYS:NZ	2.29	0.66
45:NA:210:TYR:HE2	46:NB:324:LYS:HB2	1.61	0.66
46:NF:178:THR:HB	46:NF:181:GLU:HG3	1.78	0.66
45:OA:101:ASN:HA	45:OA:144:GLY:H	1.61	0.66
45:OE:1:MET:SD	46:OH:94:GLN:NE2	2.69	0.66
45:OK:169:PHE:HA	45:OK:202:VAL:HG22	1.78	0.66
46:PF:164:MET:HB3	46:PF:197:ASP:H	1.58	0.66
45:PG:89:PRO:HG2	45:QG:280:LYS:HD2	1.77	0.66
46:PN:119:VAL:O	46:PN:122:LYS:HG2	1.95	0.66
45:QK:121:ARG:HH22	45:QK:124:LYS:HG2	1.60	0.66
45:SC:389:SER:O	45:SC:393:HIS:ND1	2.28	0.66
45:TE:352:LYS:HZ3	46:TF:178:THR:HA	1.60	0.66
46:TF:200:MET:HE2	46:TF:268:ILE:HD13	1.77	0.66
45:UI:56:THR:HA	45:VG:285:GLN:HE22	1.60	0.66
46:WN:5:VAL:HG12	46:WN:62:ARG:HD3	1.77	0.66
31:2I:36:ARG:HH22	45:FG:96:LYS:HB2	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:3I:216:ARG:NH2	46:FL:128:ASP:HA	2.11	0.66
46:AF:377:MET:SD	46:AF:380:ARG:NH1	2.64	0.66
45:BA:161:TYR:HB3	45:BA:164:LYS:HE2	1.78	0.66
45:BC:50:ASN:O	45:BC:64:ARG:NH1	2.28	0.66
45:DM:209:ILE:HG13	45:DM:302:MET:HG3	1.78	0.66
45:GE:219:ILE:HG22	45:GE:221:ARG:H	1.61	0.66
46:GH:67:ASP:O	46:GH:92:PHE:HA	1.96	0.66
46:GJ:107:THR:OG1	46:GJ:108:GLU:OE1	2.14	0.66
46:IF:67:ASP:O	46:IF:92:PHE:HA	1.95	0.66
45:II:74:VAL:HG23	45:II:75:ILE:HD12	1.77	0.66
45:IM:71:GLU:OE2	46:IN:2:ARG:NH2	2.29	0.66
45:JG:96:LYS:NZ	46:JH:1:MET:SD	2.67	0.66
46:KJ:350:LYS:NZ	46:KJ:352:SER:OG	2.28	0.66
45:KM:399:TYR:OH	45:KM:415:GLU:OE2	2.14	0.66
46:LB:295:ASP:HB3	46:LB:298:ASN:HB2	1.77	0.66
46:MH:222:TYR:O	46:MH:226:ASN:ND2	2.23	0.66
46:NF:135:ILE:HD12	46:NF:152:ILE:HD11	1.77	0.66
45:OE:210:TYR:HE2	46:OF:324:LYS:HA	1.61	0.66
45:OG:121:ARG:HD2	45:OG:124:LYS:HZ1	1.61	0.66
45:OM:210:TYR:CD1	46:ON:324:LYS:HE3	2.31	0.66
46:PF:183:TYR:HA	46:PF:385:PHE:HE1	1.61	0.66
45:PM:224:TYR:HA	45:PM:227:LEU:HD12	1.77	0.66
45:QI:70:LEU:HD13	45:QI:95:GLY:HA3	1.78	0.66
46:RB:2:ARG:HH12	45:RC:72:PRO:HD2	1.61	0.66
46:RD:121:ARG:NH2	46:RD:158:GLU:OE2	2.28	0.66
45:RK:174:SER:HB3	45:RK:177:VAL:O	1.94	0.66
45:TM:244:PHE:HB2	45:TM:356:ASN:HD21	1.60	0.66
46:TN:273:LEU:H	46:TN:292:GLN:HE22	1.44	0.66
46:UB:74:ASP:HA	46:UB:77:ARG:HG2	1.77	0.66
46:VN:8:GLN:NE2	46:VN:136:THR:OG1	2.29	0.66
46:WB:47:ILE:HD12	46:WB:59:TYR:HE1	1.59	0.66
45:WK:53:PHE:O	45:WK:64:ARG:NH1	2.28	0.66
45:WM:180:ALA:HA	46:WN:350:LYS:HZ2	1.60	0.66
46:WN:67:ASP:O	46:WN:92:PHE:HA	1.95	0.66
46:WN:330:MET:HB3	46:WN:349:ILE:HD12	1.77	0.66
2:0B:24:PRO:HD3	46:JH:276:ARG:HH12	1.60	0.65
45:AE:239:THR:HG23	45:AE:243:ARG:HH12	1.61	0.65
45:BC:33:ASP:HA	45:BC:85:GLN:HE21	1.61	0.65
45:BI:36:MET:HE3	45:BI:37:PRO:HD2	1.78	0.65
46:DB:276:ARG:NH1	46:DB:279:GLN:OE1	2.29	0.65
46:DD:113:ILE:HG21	46:DD:150:LEU:HD22	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:293:MET:HE2	46:EF:367:PHE:HD1	1.61	0.65
46:EH:135:ILE:HG13	46:EH:152:ILE:HD11	1.78	0.65
45:EM:317:MET:O	45:EM:353:VAL:HA	1.95	0.65
45:EM:352:LYS:HE2	46:EN:178:THR:HA	1.78	0.65
46:EN:213:ARG:NH2	46:EN:297:LYS:O	2.21	0.65
46:FD:161:ASP:O	46:FD:251:ARG:NH2	2.27	0.65
45:GC:76:ASP:OD1	45:GC:79:ARG:NH2	2.29	0.65
45:GE:221:ARG:HH22	46:GF:321:MET:HB3	1.61	0.65
45:HK:71:GLU:OE1	46:HL:247:ASN:ND2	2.28	0.65
46:HN:226:ASN:HD21	49:HN:501:GDP:HN1	1.42	0.65
45:IK:242:LEU:HD21	45:IK:251:ASP:HA	1.78	0.65
46:JB:215:LEU:HD21	46:JB:273:LEU:HD12	1.77	0.65
45:KE:251:ASP:HB3	45:KE:254:GLU:HG2	1.78	0.65
46:KF:238:CYS:SG	46:KF:318:ARG:NH1	2.69	0.65
45:LA:275:ILE:HD12	45:LA:368:LEU:HD11	1.77	0.65
46:LB:334:GLN:NE2	46:LB:348:ASN:OD1	2.29	0.65
46:NB:313:ALA:HB1	46:NB:367:PHE:HE1	1.61	0.65
45:OA:212:ILE:HD11	45:OA:300:ASN:HA	1.78	0.65
46:PD:221:THR:HG23	46:PD:224:ASP:H	1.61	0.65
46:PH:49:VAL:HG21	46:PH:241:ARG:HG2	1.77	0.65
46:RJ:194:GLU:OE2	46:RJ:414:ASN:ND2	2.24	0.65
46:TL:258:ILE:HB	45:TM:407:TRP:CZ2	2.31	0.65
45:WE:292:THR:HG21	45:WE:331:SER:HB3	1.76	0.65
45:WK:51:THR:HG21	45:WK:243:ARG:HB3	1.77	0.65
45:WK:176:GLN:HG2	45:WK:177:VAL:HG23	1.78	0.65
46:WN:282:ARG:HH22	46:WN:289:LEU:HD22	1.61	0.65
17:1F:149:PRO:HB2	46:HL:213:ARG:HH21	1.60	0.65
31:3I:287:ARG:HH22	45:FG:59:GLY:N	1.91	0.65
37:5E:201:THR:HA	37:5E:204:LYS:HE2	1.78	0.65
37:5H:61:LYS:NZ	46:ON:276:ARG:HH21	1.95	0.65
34:5R:455:VAL:HB	34:5R:471:LEU:HB2	1.77	0.65
40:6G:95:VAL:O	40:6G:99:HIS:ND1	2.30	0.65
46:BD:32:PRO:O	46:BD:83:GLN:NE2	2.29	0.65
46:CJ:256:ASN:HD22	46:CJ:350:LYS:HD2	1.60	0.65
46:DJ:257:LEU:HD11	46:DJ:314:SER:HB2	1.77	0.65
46:DN:49:VAL:O	46:DN:62:ARG:NH2	2.29	0.65
46:EB:54:ALA:HA	46:FB:283:ALA:HB2	1.78	0.65
45:EM:311:LYS:HE2	45:EM:342:GLN:HG3	1.77	0.65
46:JJ:309:ARG:NH2	46:JJ:426:GLN:O	2.29	0.65
45:KE:292:THR:HG21	45:KE:331:SER:HB2	1.77	0.65
45:LG:181:VAL:HG13	45:LG:182:VAL:HG13	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MM:259:LEU:HD21	45:MM:316:SER:HB2	1.78	0.65
45:NA:265:ILE:HG22	45:NA:380:ASN:HD21	1.61	0.65
45:NI:292:THR:HG21	45:NI:331:SER:HB3	1.78	0.65
46:OB:178:THR:HB	46:OB:181:GLU:HG3	1.78	0.65
45:OE:203:MET:HG3	45:OE:384:ILE:HD11	1.78	0.65
45:PA:211:ASP:HA	45:PA:214:ARG:HG2	1.78	0.65
46:PN:194:GLU:HA	46:PN:262:ARG:HH12	1.61	0.65
45:QC:101:ASN:HA	45:QC:144:GLY:H	1.61	0.65
45:RG:225:THR:O	45:RG:229:ARG:HG3	1.96	0.65
46:SB:136:THR:O	46:SB:137:HIS:ND1	2.30	0.65
46:UJ:320:ARG:HH22	45:UK:221:ARG:HH21	1.44	0.65
46:UJ:326:VAL:O	46:UJ:330:MET:HG2	1.96	0.65
46:UL:46:ARG:NH2	45:UM:76:ASP:OD2	2.28	0.65
45:UM:60:LYS:NZ	45:UM:61:HIS:O	2.29	0.65
46:VH:48:ASN:O	46:VH:62:ARG:NH1	2.28	0.65
45:VK:254:GLU:O	45:VK:258:ASN:ND2	2.29	0.65
16:1B:238:TYR:O	45:JC:84:ARG:NH1	2.26	0.65
23:3O:456:LEU:HD11	46:UF:276:ARG:HH21	1.61	0.65
25:3R:315:GLN:HG3	46:CL:276:ARG:HG2	1.77	0.65
30:4H:205:GLN:HE22	45:AK:82:THR:H	1.42	0.65
34:7R:12:LEU:C	46:LB:227:HIS:HE1	1.99	0.65
45:AC:292:THR:HG21	45:AC:331:SER:HB3	1.78	0.65
46:BN:116:VAL:O	46:BN:120:VAL:HG23	1.97	0.65
45:CG:180:ALA:HB3	45:CG:183:GLU:HG3	1.78	0.65
46:DF:67:ASP:O	46:DF:92:PHE:HA	1.97	0.65
46:DH:207:LEU:HB3	46:DH:225:LEU:HD22	1.77	0.65
46:DJ:83:GLN:O	46:EJ:281:TYR:OH	2.14	0.65
46:EB:289:LEU:HD13	46:EB:365:VAL:HG23	1.76	0.65
45:GE:101:ASN:HA	45:GE:144:GLY:H	1.61	0.65
46:GJ:263:LEU:HD22	46:GJ:422:TYR:HD1	1.62	0.65
45:HG:352:LYS:HZ2	45:HG:353:VAL:H	1.44	0.65
45:JI:97:GLU:OE1	45:JI:105:ARG:NH2	2.26	0.65
45:JI:241:SER:OG	45:JI:249:ASN:OD1	2.15	0.65
45:JM:63:PRO:HG2	45:JM:87:PHE:HA	1.77	0.65
45:KM:15:GLN:NE2	47:KM:501:GTP:O6	2.28	0.65
45:KM:395:PHE:HB3	45:KM:422:ARG:HH21	1.61	0.65
45:LC:325:PRO:HA	45:LC:328:VAL:HG12	1.79	0.65
45:MC:406:HIS:HA	45:MC:409:VAL:HG12	1.78	0.65
46:MF:257:LEU:HD21	46:MF:314:SER:HB2	1.77	0.65
45:MI:174:SER:HB3	45:MI:177:VAL:O	1.96	0.65
45:OC:207:GLU:HA	45:OC:210:TYR:CD1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OJ:10:GLY:O	46:OJ:14:ASN:ND2	2.30	0.65
45:OM:399:TYR:O	45:OM:402:ARG:NH1	2.30	0.65
46:ON:328:GLU:O	46:ON:332:ASN:ND2	2.29	0.65
45:PC:101:ASN:HA	45:PC:144:GLY:H	1.59	0.65
46:QJ:318:ARG:HB2	46:QJ:364:ALA:HB3	1.78	0.65
45:RG:119:LEU:HD13	45:RG:122:ILE:HD11	1.78	0.65
45:SC:288:VAL:HG11	45:SC:327:ASP:HB3	1.77	0.65
45:SI:248:LEU:HB2	45:SI:355:ILE:HG12	1.79	0.65
45:SM:33:ASP:HA	45:SM:85:GLN:HE21	1.61	0.65
46:TH:68:LEU:HB3	46:TH:96:GLY:HA2	1.78	0.65
45:TM:132:LEU:HD22	45:TM:164:LYS:HD2	1.78	0.65
46:UL:372:THR:HA	46:UL:422:TYR:HE2	1.60	0.65
46:VF:3:GLU:OE2	46:VF:62:ARG:HD2	1.97	0.65
46:VF:49:VAL:HG21	46:VF:241:ARG:HG2	1.77	0.65
45:VK:210:TYR:OH	46:VL:323:THR:OG1	2.10	0.65
45:WC:129:CYS:SG	45:WC:130:THR:N	2.69	0.65
46:WL:309:ARG:NH2	46:WL:426:GLN:O	2.27	0.65
45:WM:51:THR:O	45:WM:64:ARG:NH2	2.29	0.65
21:2L:653:TRP:HH2	45:CM:219:ILE:HG23	1.62	0.65
45:AE:90:GLU:HG3	45:AE:121:ARG:HH22	1.62	0.65
46:AN:67:ASP:OD1	46:AN:68:LEU:N	2.30	0.65
45:CA:215:ARG:NH2	45:CA:300:ASN:OD1	2.30	0.65
46:CB:67:ASP:O	46:CB:92:PHE:HA	1.96	0.65
46:CF:290:THR:HA	46:CF:293:MET:HG2	1.79	0.65
46:CH:11:GLN:HA	46:CH:72:THR:HG21	1.78	0.65
45:DG:175:PRO:HG2	45:DG:304:LYS:HD2	1.79	0.65
46:EH:271:ALA:HB3	46:EH:365:VAL:HB	1.78	0.65
46:HB:73:MET:HA	46:HB:76:VAL:HG12	1.77	0.65
45:HE:76:ASP:OD2	46:HF:46:ARG:NH2	2.30	0.65
46:IB:139:LEU:HD22	46:IB:170:VAL:HG12	1.78	0.65
45:IK:239:THR:HG22	45:IK:243:ARG:HE	1.61	0.65
45:IM:187:SER:O	45:IM:191:THR:HG23	1.96	0.65
45:JE:221:ARG:HA	46:JF:324:LYS:HZ1	1.61	0.65
45:JM:195:LEU:HD12	45:JM:196:GLU:HG2	1.77	0.65
46:KD:22:GLU:HG2	46:KD:81:PHE:HD1	1.62	0.65
46:KF:16:ILE:HD12	46:KF:229:VAL:HG11	1.79	0.65
46:KH:51:TYR:HB3	46:KH:59:TYR:HB3	1.79	0.65
46:KN:3:GLU:HG3	46:KN:62:ARG:NH1	2.12	0.65
45:LI:284:GLU:HG3	45:LI:286:LEU:HD22	1.78	0.65
45:MC:116:ASP:OD2	45:MC:117:LEU:N	2.29	0.65
45:MK:27:GLU:OE1	45:MK:243:ARG:NH1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NB:314:SER:HA	46:NB:350:LYS:HB2	1.77	0.65
46:ND:19:LYS:HE2	46:ND:22:GLU:OE2	1.97	0.65
46:NL:317:PHE:HE2	46:NL:326:VAL:HG13	1.62	0.65
45:NM:91:GLN:HG3	45:NM:121:ARG:HE	1.61	0.65
46:OJ:262:ARG:NH1	46:OJ:421:GLU:OE1	2.29	0.65
46:PD:100:ASN:ND2	46:PD:401:GLU:OE1	2.29	0.65
45:PE:9:VAL:HG12	45:PE:68:LEU:HB3	1.76	0.65
45:RA:224:TYR:HD1	45:RA:227:LEU:HD12	1.62	0.65
45:RC:360:PRO:O	45:RC:370:LYS:NZ	2.26	0.65
45:UG:101:ASN:HA	45:UG:144:GLY:H	1.61	0.65
46:VD:128:ASP:OD1	46:VD:129:CYS:N	2.30	0.65
45:VE:70:LEU:HD13	45:VE:95:GLY:HA3	1.78	0.65
45:VG:70:LEU:HD13	45:VG:95:GLY:HA3	1.78	0.65
45:VI:175:PRO:HA	45:VI:390:ARG:CZ	2.26	0.65
45:CE:292:THR:HG21	45:CE:331:SER:HB3	1.77	0.65
31:2I:118:LYS:NZ	45:GC:339:ARG:O	2.26	0.65
1:3A:35:TYR:HD2	46:MN:320:ARG:HH12	1.42	0.65
31:3I:217:ASN:OD1	45:FK:96:LYS:NZ	2.29	0.65
46:AN:306:ARG:HB2	46:AN:340:TYR:HE1	1.61	0.65
45:BE:276:ILE:HD12	45:BE:281:ALA:HA	1.78	0.65
46:DH:268:ILE:HG22	46:DH:368:VAL:HG12	1.77	0.65
45:EG:338:LYS:NZ	45:EG:340:THR:H	1.94	0.65
45:GG:76:ASP:OD2	46:GH:46:ARG:NH2	2.30	0.65
45:HC:238:LEU:HA	45:HC:318:MET:HE1	1.78	0.65
45:HK:88:HIS:NE2	45:HK:90:GLU:HG2	2.12	0.65
46:HL:109:GLY:HA2	46:HL:147:MET:HE2	1.78	0.65
45:IC:27:GLU:OE1	45:IC:243:ARG:NH1	2.28	0.65
45:IE:271:SER:OG	45:IE:301:MET:SD	2.54	0.65
45:JG:164:LYS:O	45:JG:166:LYS:NZ	2.30	0.65
45:JK:140:SER:OG	47:JK:501:GTP:O2B	2.15	0.65
46:KF:31:ASP:OD1	46:KF:35:THR:N	2.29	0.65
45:LK:288:VAL:HA	45:LK:291:ILE:HG12	1.76	0.65
46:MF:262:ARG:NH1	46:MF:421:GLU:OE1	2.28	0.65
45:OE:56:THR:HG23	45:OE:58:ALA:H	1.62	0.65
46:ON:52:ASN:OD1	46:ON:62:ARG:NH2	2.30	0.65
45:PA:320:ARG:HG3	45:PA:356:ASN:HB3	1.79	0.65
46:PH:83:GLN:O	46:QF:281:TYR:OH	2.14	0.65
46:QB:257:LEU:HD11	46:QB:314:SER:HB2	1.79	0.65
45:QI:339:ARG:O	45:QI:342:GLN:NE2	2.28	0.65
46:RB:100:ASN:ND2	46:RB:401:GLU:OE1	2.29	0.65
45:SE:101:ASN:HA	45:SE:144:GLY:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SM:406:HIS:HA	45:SM:409:VAL:HG12	1.79	0.65
45:TC:258:ASN:HD21	46:TD:178:THR:HG23	1.60	0.65
45:TC:392:ASP:OD2	45:TC:422:ARG:NH1	2.30	0.65
46:TD:377:MET:SD	46:TD:380:ARG:NH1	2.70	0.65
45:TE:271:SER:HA	45:TE:302:MET:HG2	1.79	0.65
46:TH:235:GLY:HA3	46:TH:366:THR:HG21	1.78	0.65
46:TJ:55:THR:HG23	46:UJ:283:ALA:HA	1.79	0.65
46:TL:100:ASN:ND2	46:TL:401:GLU:OE2	2.24	0.65
45:UC:55:GLU:HG3	45:UC:57:GLY:H	1.61	0.65
46:VB:4:ILE:HD11	46:VB:131:GLN:HB2	1.77	0.65
45:VE:320:ARG:HH11	45:VE:360:PRO:HA	1.62	0.65
45:VK:109:THR:O	45:VK:112:LYS:NZ	2.30	0.65
46:VL:200:MET:HG3	46:VL:266:PHE:HB2	1.78	0.65
11:1S:146:LYS:HA	45:WC:123:ARG:NH2	2.12	0.65
31:2I:77:GLY:HA2	45:FE:123:ARG:HD2	1.77	0.65
46:BD:372:THR:HA	46:BD:422:TYR:HE2	1.61	0.65
46:CF:397:TRP:HE1	45:CE:260:VAL:HG23	1.62	0.65
46:CL:322:SER:OG	45:CM:221:ARG:NH1	2.30	0.65
46:DJ:45:GLU:HG2	46:DJ:46:ARG:HG2	1.78	0.65
45:DK:90:GLU:OE2	45:EK:280:LYS:NZ	2.26	0.65
45:EE:125:LEU:O	45:EE:128:ASN:ND2	2.30	0.65
46:EL:8:GLN:NE2	46:EL:14:ASN:OD1	2.30	0.65
46:EL:31:ASP:OD1	46:EL:37:HIS:ND1	2.29	0.65
45:FC:141:VAL:HG11	45:FC:172:TYR:HD1	1.62	0.65
45:FG:71:GLU:OE2	46:FH:2:ARG:NH2	2.30	0.65
45:FG:210:TYR:HD1	46:FH:324:LYS:HZ2	1.45	0.65
45:FK:292:THR:HG21	45:FK:331:SER:HB3	1.78	0.65
46:FN:190:HIS:CD2	46:FN:411:ALA:HA	2.32	0.65
46:GL:135:ILE:HG13	46:GL:152:ILE:HD11	1.79	0.65
45:HA:276:ILE:HD11	45:HA:280:LYS:HG3	1.78	0.65
45:JE:244:PHE:HB2	45:JE:356:ASN:HD21	1.62	0.65
45:KG:15:GLN:NE2	47:KG:501:GTP:O6	2.29	0.65
46:LN:237:THR:HG23	46:LN:241:ARG:HH21	1.62	0.65
45:NG:54:SER:HB3	45:NG:64:ARG:HE	1.60	0.65
45:NK:331:SER:O	45:NK:335:ILE:HG12	1.96	0.65
45:NK:394:LYS:NZ	46:NL:346:PRO:HG2	2.12	0.65
46:NL:191:GLN:O	46:NL:195:ASN:ND2	2.28	0.65
45:NM:98:ASP:O	45:NM:105:ARG:NH2	2.29	0.65
46:OF:226:ASN:HD21	49:OF:502:GDP:HN1	1.45	0.65
46:QJ:83:GLN:O	46:RJ:281:TYR:OH	2.13	0.65
45:SE:33:ASP:HA	45:SE:85:GLN:HE21	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UC:254:GLU:HG2	46:UD:98:GLY:HA2	1.78	0.65
45:UE:244:PHE:HB2	45:UE:356:ASN:HD21	1.61	0.65
46:UF:154:LYS:NZ	46:UF:157:GLU:OE2	2.22	0.65
46:VL:240:LEU:HD11	46:VL:249:ASP:HA	1.79	0.65
45:CE:129:CYS:SG	45:CE:130:THR:N	2.70	0.65
6:OF:32:ILE:HD11	45:DE:79:ARG:HB2	1.77	0.65
9:1N:156:HIS:ND1	46:KJ:26:ASP:OD2	2.30	0.65
26:2W:208:LEU:HD22	45:LM:372:MET:SD	2.37	0.65
36:5B:27:LYS:HE2	36:5B:30:LYS:HE2	1.79	0.65
10:5Q:62:PRO:HB3	10:5Q:69:LEU:HD21	1.78	0.65
45:AA:11:GLN:NE2	46:AB:247:ASN:OD1	2.30	0.65
46:AD:73:MET:HA	46:AD:76:VAL:HG12	1.78	0.65
46:AJ:68:LEU:HB3	46:AJ:96:GLY:HA2	1.78	0.65
46:BD:48:ASN:O	46:BD:62:ARG:NH1	2.30	0.65
45:BE:173:PRO:O	45:BE:390:ARG:NH2	2.30	0.65
45:BI:91:GLN:HG2	45:BI:121:ARG:HH12	1.61	0.65
45:BM:397:LEU:HD23	46:BN:346:PRO:HD3	1.77	0.65
46:DL:268:ILE:HG22	46:DL:368:VAL:HG22	1.77	0.65
45:EM:311:LYS:HZ1	45:EM:344:VAL:N	1.94	0.65
46:FB:222:TYR:O	46:FB:226:ASN:ND2	2.26	0.65
45:HI:11:GLN:NE2	46:HJ:245:GLN:O	2.29	0.65
45:IM:101:ASN:HA	45:IM:144:GLY:H	1.62	0.65
46:KD:222:TYR:O	46:KD:226:ASN:ND2	2.24	0.65
45:KK:205:ASP:OD1	45:KK:206:ASN:N	2.29	0.65
46:LB:392:LYS:HD2	46:LB:395:LEU:HD22	1.79	0.65
46:LH:294:PHE:HD2	46:LH:333:VAL:HG21	1.61	0.65
46:LJ:2:ARG:HD2	46:LJ:240:LEU:HD11	1.79	0.65
45:NI:311:LYS:HG2	45:NI:342:GLN:HE22	1.59	0.65
46:OF:268:ILE:HG22	46:OF:368:VAL:HG22	1.76	0.65
46:PL:257:LEU:HD11	46:PL:314:SER:HB3	1.79	0.65
46:QH:8:GLN:NE2	46:QH:13:GLY:O	2.29	0.65
46:QL:83:GLN:O	46:RL:281:TYR:OH	2.14	0.65
46:TD:129:CYS:SG	45:TE:96:LYS:NZ	2.59	0.65
45:TG:332:ILE:HG23	45:TG:351:PHE:HD2	1.62	0.65
45:UG:326:LYS:NZ	46:UH:220:PRO:O	2.29	0.65
46:UL:318:ARG:HG2	46:UL:357:PRO:HA	1.79	0.65
46:WF:282:ARG:HH21	46:WF:288:GLU:HB3	1.61	0.65
46:WJ:344:TRP:HB3	46:WJ:430:ALA:HB2	1.78	0.65
46:WN:200:MET:HG3	46:WN:266:PHE:HB2	1.78	0.65
2:OB:242:PRO:HB3	46:JL:361:LEU:HD13	1.78	0.65
31:2I:48:PHE:HE2	46:GH:294:PHE:HB3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:2I:56:GLN:OE1	46:GH:213:ARG:NH1	2.27	0.65
45:BA:91:GLN:HB3	45:BA:121:ARG:HH21	1.61	0.65
45:BG:98:ASP:OD1	45:BG:99:ALA:N	2.30	0.65
46:DJ:200:MET:HG2	46:DJ:268:ILE:HG23	1.78	0.65
46:FF:31:ASP:OD1	46:FF:35:THR:N	2.29	0.65
45:GK:98:ASP:O	45:GK:105:ARG:NH1	2.30	0.65
45:HA:172:TYR:CE2	45:HA:203:MET:HG3	2.31	0.65
45:HI:271:SER:OG	45:HI:301:MET:SD	2.55	0.65
45:JG:71:GLU:HB3	45:JG:98:ASP:HB2	1.79	0.65
45:JG:167:LEU:HG	45:JG:200:VAL:HB	1.78	0.65
46:LD:101:TRP:HB2	46:LD:184:ASN:HB3	1.77	0.65
46:LL:190:HIS:HE1	46:LL:414:ASN:ND2	1.95	0.65
45:MK:195:LEU:O	45:MK:266:HIS:NE2	2.27	0.65
45:NK:271:SER:OG	45:NK:301:MET:SD	2.55	0.65
45:NM:55:GLU:O	45:OM:285:GLN:NE2	2.30	0.65
45:OE:76:ASP:OD2	46:OF:46:ARG:NH2	2.30	0.65
45:PA:258:ASN:HB3	45:PA:352:LYS:HG3	1.79	0.65
45:PK:167:LEU:HG	45:PK:200:VAL:HB	1.79	0.65
46:SF:73:MET:HA	46:SF:76:VAL:HG12	1.78	0.65
46:TN:73:MET:HA	46:TN:76:VAL:HG12	1.79	0.65
45:UC:214:ARG:HH12	45:UC:220:GLU:HA	1.61	0.65
45:UK:316:SER:HA	45:UK:352:LYS:HB2	1.79	0.65
45:UM:180:ALA:HB3	45:UM:183:GLU:HG3	1.78	0.65
45:VA:241:SER:OG	45:VA:250:VAL:O	2.14	0.65
45:VG:31:GLN:NE2	45:VG:35:GLN:O	2.30	0.65
45:VI:221:ARG:NH2	46:VJ:321:MET:HB2	2.12	0.65
45:WA:173:PRO:O	45:WA:390:ARG:NH2	2.30	0.65
45:WC:251:ASP:OD1	45:WC:252:ILE:N	2.30	0.65
46:WF:153:SER:HB2	46:WF:191:GLN:HE21	1.62	0.65
46:WJ:260:PHE:HB2	46:WJ:263:LEU:HD13	1.79	0.65
23:1O:125:LEU:HD21	46:UF:83:GLN:HG3	1.79	0.65
15:4X:10:ARG:NH2	15:4X:28:GLU:OE1	2.29	0.65
36:5C:27:LYS:HE2	36:5C:30:LYS:HE2	1.79	0.65
45:AA:271:SER:HA	45:AA:302:MET:HG2	1.77	0.65
45:AM:101:ASN:HA	45:AM:144:GLY:H	1.61	0.65
46:BN:73:MET:HA	46:BN:76:VAL:HG12	1.79	0.65
45:CC:226:ASN:ND2	45:CC:367:ASP:OD2	2.30	0.65
46:CF:67:ASP:O	46:CF:92:PHE:HA	1.97	0.65
46:CH:67:ASP:O	46:CH:92:PHE:HA	1.94	0.65
46:DB:156:ARG:NH1	46:DB:159:TYR:O	2.29	0.65
46:DJ:267:MET:HG3	46:DJ:299:MET:HE2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EE:371:VAL:HG12	45:EE:373:ARG:H	1.61	0.65
46:EJ:15:GLN:O	46:EJ:226:ASN:ND2	2.30	0.65
46:EN:73:MET:HA	46:EN:76:VAL:HG12	1.79	0.65
46:EN:257:LEU:HD11	46:EN:314:SER:HB2	1.76	0.65
46:HB:222:TYR:O	46:HB:226:ASN:ND2	2.26	0.65
45:HE:257:THR:HA	46:HH:397:TRP:CH2	2.32	0.65
45:II:11:GLN:HG3	45:II:74:VAL:HG11	1.79	0.65
45:JE:254:GLU:OE1	45:JE:257:THR:OG1	2.11	0.65
45:LI:116:ASP:OD1	45:LI:117:LEU:N	2.29	0.65
46:MH:128:ASP:OD1	46:MH:129:CYS:N	2.29	0.65
45:MK:430:LYS:HA	45:MK:433:GLU:OE1	1.96	0.65
45:MM:140:SER:OG	47:MM:501:GTP:O2B	2.15	0.65
45:NI:223:THR:HG22	45:NI:224:TYR:H	1.61	0.65
46:NL:344:TRP:HB3	46:NL:430:ALA:HB2	1.79	0.65
45:NM:71:GLU:HG3	45:NM:98:ASP:HB2	1.79	0.65
45:OA:320:ARG:NH2	45:OA:358:GLN:OE1	2.30	0.65
46:PB:222:TYR:O	46:PB:226:ASN:ND2	2.27	0.65
45:QG:203:MET:HG3	45:QG:384:ILE:HD11	1.79	0.65
45:QG:335:ILE:HA	45:QG:338:LYS:HE3	1.78	0.65
45:RA:229:ARG:NH2	45:RA:367:ASP:OD2	2.29	0.65
46:RF:289:LEU:HD13	46:RF:365:VAL:HG23	1.78	0.65
46:SL:324:LYS:HD3	45:SM:222:PRO:HD2	1.79	0.65
45:SM:326:LYS:HD3	46:SN:212:PHE:HZ	1.61	0.65
46:TH:97:ALA:HB3	46:TH:143:THR:HB	1.78	0.65
46:TL:226:ASN:HD21	49:TL:501:GDP:HN1	1.45	0.65
45:UG:226:ASN:ND2	45:UG:367:ASP:OD2	2.30	0.65
45:UK:188:ILE:HD12	45:UK:425:LEU:HD11	1.78	0.65
45:WC:326:LYS:HD2	46:WF:220:PRO:HD2	1.78	0.65
19:1J:198:ARG:HG3	45:IG:372:MET:SD	2.36	0.65
19:1J:291:ASP:OD2	45:IK:221:ARG:NH1	2.30	0.65
30:4H:205:GLN:HE22	45:AK:82:THR:N	1.94	0.65
37:5G:11:TRP:HE3	37:5G:14:ARG:HE	1.44	0.65
45:AC:345:ASP:OD1	45:AC:346:TRP:N	2.30	0.65
46:AF:3:GLU:HG3	46:AF:49:VAL:HA	1.78	0.65
46:AL:213:ARG:O	46:AL:216:LYS:NZ	2.24	0.65
45:BI:135:PHE:HB2	45:BI:166:LYS:HG3	1.78	0.65
45:BK:292:THR:HG21	45:BK:331:SER:HB3	1.79	0.65
46:DB:257:LEU:HD12	46:DB:312:THR:HG23	1.79	0.65
46:DH:7:ILE:HG22	46:DH:64:ILE:HG12	1.79	0.65
45:DK:36:MET:HG3	45:DK:38:SER:H	1.60	0.65
46:EB:67:ASP:O	46:EB:92:PHE:HA	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EG:120:ASP:OD1	45:EG:123:ARG:NH2	2.28	0.65
45:EG:140:SER:OG	47:EG:501:GTP:O2B	2.15	0.65
45:EK:128:ASN:ND2	45:FI:290:GLU:OE2	2.29	0.65
46:EL:68:LEU:HB3	46:EL:96:GLY:HA2	1.78	0.65
46:EL:164:MET:HB3	46:EL:197:ASP:H	1.62	0.65
46:GJ:286:VAL:HG21	46:GJ:325:GLU:HG3	1.78	0.65
46:HF:80:PRO:HD2	46:HF:80:PRO:O	1.97	0.65
45:MI:119:LEU:HD11	45:MI:156:ARG:HG2	1.78	0.65
45:NI:352:LYS:HZ2	46:NL:179:VAL:HG13	1.61	0.65
45:NI:402:ARG:NH2	45:NI:415:GLU:OE2	2.30	0.65
45:OC:352:LYS:NZ	46:OF:178:THR:HA	2.12	0.65
46:OL:371:SER:O	46:OL:422:TYR:OH	2.13	0.65
46:QF:150:LEU:O	46:QF:154:LYS:HG2	1.97	0.65
45:QI:108:TYR:O	45:QI:112:LYS:NZ	2.28	0.65
46:QL:309:ARG:NH1	46:QL:343:GLU:OE2	2.28	0.65
45:RG:352:LYS:HZ1	46:RH:179:VAL:N	1.92	0.65
46:RJ:5:VAL:HG12	46:RJ:62:ARG:HD3	1.79	0.65
45:RK:90:GLU:OE2	45:SK:280:LYS:NZ	2.26	0.65
46:RL:12:CYS:HA	46:RL:15:GLN:HE21	1.61	0.65
45:SI:48:ALA:HB1	45:SI:243:ARG:HB2	1.79	0.65
45:SK:75:ILE:HD13	45:SK:94:SER:HB2	1.79	0.65
46:SL:313:ALA:HB1	46:SL:367:PHE:HE1	1.61	0.65
45:TK:192:HIS:HD2	45:TK:421:ALA:HA	1.62	0.65
45:UC:2:ARG:HH21	46:UD:70:PRO:HD2	1.61	0.65
45:VI:174:SER:HB2	45:VI:177:VAL:HB	1.78	0.65
45:WI:398:MET:HE3	46:WJ:346:PRO:HD2	1.78	0.65
46:WL:268:ILE:HG22	46:WL:368:VAL:HG12	1.79	0.65
14:2V:22:ARG:NH1	45:ME:423:GLU:OE2	2.30	0.64
36:5B:27:LYS:HE2	36:5B:30:LYS:HB2	1.79	0.64
40:6G:93:LYS:NZ	45:UK:114:ILE:HG13	2.10	0.64
34:7R:541:LYS:HD2	34:7R:541:LYS:H	1.62	0.64
45:BI:276:ILE:HD12	45:BI:281:ALA:HA	1.79	0.64
46:BL:175:VAL:N	46:BL:205:GLU:OE2	2.30	0.64
46:CJ:68:LEU:HB3	46:CJ:96:GLY:HA2	1.77	0.64
46:CJ:207:LEU:HB3	46:CJ:225:LEU:HD22	1.78	0.64
45:DA:11:GLN:HG3	45:DA:74:VAL:HG11	1.80	0.64
46:DB:67:ASP:O	46:DB:92:PHE:HA	1.97	0.64
46:DD:6:HIS:O	46:DD:63:ALA:HA	1.97	0.64
45:DE:244:PHE:HB2	45:DE:356:ASN:HD21	1.61	0.64
46:DJ:324:LYS:HG3	45:DK:222:PRO:HG2	1.77	0.64
45:DM:75:ILE:HG22	45:DM:79:ARG:HE	1.59	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DM:335:ILE:HA	45:DM:338:LYS:HZ2	1.62	0.64
45:EC:209:ILE:HD12	45:EC:227:LEU:HB3	1.77	0.64
46:EN:182:PRO:HD2	46:EN:183:TYR:H	1.61	0.64
45:FA:398:MET:HE1	46:FB:346:PRO:HD2	1.79	0.64
46:FJ:309:ARG:NH2	46:FJ:426:GLN:O	2.29	0.64
45:HM:288:VAL:HG11	45:HM:327:ASP:HB3	1.77	0.64
46:IN:173:PRO:HD2	46:IN:380:ARG:HH21	1.61	0.64
45:JK:399:TYR:OH	45:JK:402:ARG:NH1	2.30	0.64
45:JM:244:PHE:HB2	45:JM:356:ASN:HD21	1.60	0.64
45:KE:56:THR:HG23	45:KE:58:ALA:H	1.62	0.64
45:KI:98:ASP:O	45:KI:105:ARG:NH2	2.30	0.64
45:KM:244:PHE:HB2	45:KM:356:ASN:HD21	1.62	0.64
46:OB:86:ARG:NH1	46:PB:281:TYR:HB3	2.09	0.64
45:OG:167:LEU:HD13	45:OG:200:VAL:HG21	1.79	0.64
45:OI:265:ILE:HG12	45:OI:432:TYR:HE1	1.63	0.64
46:PD:215:LEU:HB3	46:PD:217:LEU:HD23	1.79	0.64
45:QE:311:LYS:HE3	45:QE:342:GLN:HB3	1.79	0.64
45:QI:251:ASP:HB3	45:QI:253:THR:HG22	1.78	0.64
46:QJ:164:MET:HB3	46:QJ:197:ASP:H	1.62	0.64
45:RA:258:ASN:HD21	46:RB:178:THR:HG23	1.62	0.64
45:RC:206:ASN:OD1	47:RC:501:GTP:N2	2.30	0.64
46:RF:324:LYS:HE3	45:RG:214:ARG:HD3	1.79	0.64
46:RH:67:ASP:O	46:RH:92:PHE:HA	1.95	0.64
45:RI:248:LEU:HB2	45:RI:355:ILE:HG22	1.77	0.64
46:RJ:248:SER:HB3	46:RJ:252:LYS:HG2	1.80	0.64
46:SH:21:TRP:HA	46:SH:24:ILE:HG22	1.78	0.64
46:SH:324:LYS:HD2	45:SI:210:TYR:CD2	2.33	0.64
45:SI:108:TYR:HA	45:SI:112:LYS:HE3	1.79	0.64
45:SK:78:VAL:HA	45:SK:84:ARG:HH21	1.62	0.64
46:TD:322:SER:OG	45:TE:221:ARG:NH1	2.29	0.64
46:UD:284:LEU:HD12	46:UD:289:LEU:HD21	1.79	0.64
45:VG:337:THR:O	45:VG:339:ARG:NH1	2.29	0.64
45:VI:141:VAL:HG11	45:VI:172:TYR:HD1	1.62	0.64
45:WA:222:PRO:HD2	46:WB:324:LYS:CE	2.27	0.64
45:WC:251:ASP:HB3	45:WC:254:GLU:HG3	1.79	0.64
46:WL:290:THR:HA	46:WL:293:MET:HG2	1.79	0.64
7:OG:21:ASN:ND2	46:JL:218:THR:OG1	2.29	0.64
4:ID:95:GLN:HE22	45:EG:364:PRO:HB2	1.61	0.64
23:IO:268:ASN:CB	45:UA:282:TYR:HB2	2.28	0.64
45:BK:164:LYS:O	45:BK:166:LYS:NZ	2.30	0.64
45:BK:352:LYS:HE3	46:BN:179:VAL:HG13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:203:ASP:OD2	46:CF:302:ALA:N	2.26	0.64
46:CH:322:SER:OG	45:CI:222:PRO:O	2.14	0.64
46:CL:274:THR:HG21	46:CL:282:ARG:HD2	1.77	0.64
46:DD:190:HIS:CE1	46:DD:414:ASN:HD22	2.16	0.64
46:DF:54:ALA:HA	46:EF:283:ALA:HB2	1.80	0.64
45:DG:276:ILE:HD11	45:DG:280:LYS:HG3	1.78	0.64
45:DG:288:VAL:HG21	45:DG:327:ASP:HB3	1.78	0.64
46:DL:150:LEU:HB2	46:DL:154:LYS:HZ3	1.60	0.64
46:ED:325:GLU:H	45:EE:221:ARG:NH2	1.95	0.64
46:FJ:256:ASN:HD22	46:FJ:350:LYS:HD2	1.62	0.64
46:HJ:222:TYR:O	46:HJ:226:ASN:ND2	2.19	0.64
45:IA:260:VAL:HB	46:ID:397:TRP:CZ2	2.32	0.64
45:IC:31:GLN:HE22	45:IC:37:PRO:HD3	1.61	0.64
46:ID:114:ASP:OD1	46:ID:115:SER:N	2.29	0.64
46:IH:290:THR:OG1	46:IH:329:GLN:NE2	2.29	0.64
46:JN:344:TRP:CD1	46:JN:345:ILE:HG23	2.31	0.64
46:MF:313:ALA:HB3	46:MF:349:ILE:HG12	1.78	0.64
46:OB:113:ILE:HG12	46:OB:117:LEU:HD23	1.79	0.64
46:ON:318:ARG:HB3	46:ON:357:PRO:HA	1.79	0.64
46:SB:161:ASP:O	46:SB:251:ARG:NH2	2.30	0.64
46:TB:3:GLU:HG2	46:TB:49:VAL:HA	1.80	0.64
46:TN:83:GLN:O	46:UN:281:TYR:OH	2.14	0.64
45:UE:207:GLU:HA	45:UE:210:TYR:CD2	2.32	0.64
45:UI:352:LYS:HZ1	46:UJ:179:VAL:H	1.44	0.64
46:UJ:222:TYR:O	46:UJ:226:ASN:ND2	2.27	0.64
46:UL:318:ARG:HB3	46:UL:364:ALA:HB3	1.79	0.64
46:VD:86:ARG:HD2	46:VD:88:ASP:H	1.62	0.64
45:CE:175:PRO:HG3	45:CE:390:ARG:NH1	2.12	0.64
24:1P:341:LEU:HD22	45:TC:364:PRO:HG3	1.78	0.64
25:1R:454:ARG:HH22	46:FD:218:THR:HG22	1.61	0.64
37:5E:197:LEU:HD13	45:LC:393:HIS:HB2	1.79	0.64
46:AB:281:TYR:HD1	46:MB:86:ARG:HG3	1.63	0.64
45:AM:90:GLU:HG2	45:BM:280:LYS:HZ1	1.62	0.64
46:BB:60:VAL:HG21	46:BB:86:ARG:HG2	1.80	0.64
45:BE:101:ASN:HA	45:BE:144:GLY:H	1.60	0.64
46:CB:178:THR:HB	46:CB:181:GLU:HG3	1.78	0.64
46:CH:321:MET:HB2	45:CI:221:ARG:HH21	1.62	0.64
45:CI:268:MET:HG3	45:CI:380:ASN:HB3	1.79	0.64
46:CN:207:LEU:HD13	46:CN:225:LEU:HB3	1.78	0.64
45:DG:26:LEU:HD13	45:DG:363:VAL:HG12	1.78	0.64
46:EB:86:ARG:HH12	46:FB:282:ARG:HA	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EH:8:GLN:NE2	46:EH:14:ASN:HA	2.13	0.64
46:FJ:268:ILE:HG13	46:FJ:300:MET:HE3	1.78	0.64
46:HF:67:ASP:OD1	46:HF:68:LEU:N	2.31	0.64
45:IA:254:GLU:OE2	46:ID:99:ASN:ND2	2.30	0.64
45:KK:349:THR:OG1	46:KN:176:SER:OG	2.16	0.64
45:MK:253:THR:HA	45:MK:256:GLN:HE22	1.61	0.64
46:NF:86:ARG:NH2	46:OF:281:TYR:O	2.30	0.64
45:OI:212:ILE:HD11	45:OI:300:ASN:HA	1.78	0.64
46:OJ:215:LEU:HD21	46:OJ:273:LEU:HD12	1.79	0.64
45:OK:99:ALA:HB3	45:OK:145:THR:HB	1.79	0.64
45:PI:326:LYS:HG2	46:PL:212:PHE:CZ	2.30	0.64
46:QB:268:ILE:HG22	46:QB:368:VAL:HG22	1.79	0.64
45:RC:70:LEU:HD12	45:RC:95:GLY:HA3	1.80	0.64
46:RH:375:GLN:HB2	46:RH:379:LYS:HZ2	1.63	0.64
45:SC:98:ASP:O	45:SC:105:ARG:NH2	2.28	0.64
46:SJ:139:LEU:HD13	46:SJ:168:SER:HB2	1.79	0.64
46:SN:139:LEU:HD22	46:SN:170:VAL:HG12	1.80	0.64
46:TB:100:ASN:ND2	46:TB:401:GLU:OE1	2.30	0.64
46:TF:97:ALA:HB3	46:TF:143:THR:HB	1.79	0.64
46:TH:222:TYR:O	46:TH:226:ASN:ND2	2.29	0.64
46:TL:58:ARG:HD2	46:UL:280:GLN:HE22	1.62	0.64
46:UB:65:LEU:HD22	46:UB:90:PHE:HE1	1.62	0.64
46:WD:325:GLU:HA	46:WD:328:GLU:HG3	1.79	0.64
46:WF:135:ILE:HG13	46:WF:152:ILE:HD11	1.79	0.64
4:1D:81:ARG:NH2	46:EF:358:PRO:O	2.30	0.64
7:1G:142:LYS:HE3	45:JA:84:ARG:HD2	1.79	0.64
23:1O:268:ASN:N	45:UA:282:TYR:CG	2.61	0.64
11:1S:17:LYS:NZ	46:WF:90:PHE:O	2.30	0.64
11:1S:150:GLN:HE22	45:WC:163:LYS:H	1.42	0.64
34:4R:242:ASN:HB2	45:BE:57:GLY:HA3	1.78	0.64
34:5R:415:LYS:NZ	34:5R:451:ASP:OD2	2.28	0.64
46:AF:7:ILE:HB	46:AF:135:ILE:HG12	1.78	0.64
45:AK:76:ASP:OD2	45:AK:79:ARG:NH2	2.30	0.64
45:AK:288:VAL:HA	45:AK:291:ILE:HG12	1.78	0.64
45:BA:288:VAL:HG11	45:BA:327:ASP:HB3	1.79	0.64
46:CD:45:GLU:HG3	46:CD:46:ARG:HD2	1.77	0.64
45:EC:326:LYS:HG2	46:ED:212:PHE:CE2	2.33	0.64
45:GC:177:VAL:HG22	46:GD:331:LEU:HD11	1.78	0.64
46:GD:385:PHE:HE2	46:GD:412:GLU:HB2	1.63	0.64
46:GH:52:ASN:OD1	46:GH:62:ARG:NH2	2.30	0.64
46:GN:55:THR:HG23	46:HN:283:ALA:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:100:ASN:ND2	46:GN:401:GLU:OE1	2.31	0.64
46:HH:301:CYS:SG	46:HH:302:ALA:N	2.71	0.64
46:IB:151:LEU:HA	46:IB:154:LYS:HG2	1.80	0.64
45:JE:36:MET:HG3	45:JE:37:PRO:HD2	1.80	0.64
46:KD:292:GLN:HG2	46:KD:298:ASN:HD22	1.62	0.64
46:KJ:108:GLU:OE2	46:KJ:108:GLU:N	2.30	0.64
45:LA:259:LEU:HD21	45:LA:316:SER:HB2	1.79	0.64
46:LL:372:THR:HG21	46:LL:426:GLN:HB2	1.77	0.64
45:MC:76:ASP:OD1	45:MC:79:ARG:NH2	2.31	0.64
46:MN:178:THR:HB	46:MN:181:GLU:HG3	1.78	0.64
45:NA:89:PRO:HD2	45:OA:280:LYS:NZ	2.13	0.64
46:NB:113:ILE:HG12	46:NB:117:LEU:HD23	1.80	0.64
46:NL:257:LEU:HD21	46:NL:314:SER:HB3	1.78	0.64
45:QA:55:GLU:HG3	45:QA:57:GLY:H	1.63	0.64
46:QD:350:LYS:NZ	46:QD:352:SER:OG	2.31	0.64
46:QF:1:MET:N	46:QF:3:GLU:OE2	2.30	0.64
46:QF:68:LEU:HB3	46:QF:96:GLY:HA2	1.77	0.64
45:QG:101:ASN:HA	45:QG:144:GLY:H	1.62	0.64
46:QJ:304:ASP:OD2	46:QJ:307:HIS:ND1	2.29	0.64
45:RA:60:LYS:NZ	45:RA:85:GLN:O	2.30	0.64
45:RE:292:THR:HG21	45:RE:331:SER:HB2	1.80	0.64
46:RJ:49:VAL:HG21	46:RJ:241:ARG:HG2	1.78	0.64
45:TG:389:SER:O	45:TG:393:HIS:ND1	2.31	0.64
46:TJ:164:MET:HB2	46:TJ:197:ASP:H	1.62	0.64
45:TM:265:ILE:HG22	45:TM:380:ASN:HD21	1.63	0.64
45:UG:188:ILE:HD12	45:UG:425:LEU:HD11	1.80	0.64
45:UI:348:PRO:HD3	46:UJ:388:MET:HE1	1.79	0.64
46:UJ:2:ARG:HH12	46:UJ:240:LEU:HG	1.61	0.64
46:UL:86:ARG:HE	46:UL:87:PRO:HD2	1.62	0.64
46:VN:226:ASN:HD21	49:VN:501:GDP:HN1	1.46	0.64
46:WB:119:VAL:HA	46:WB:122:LYS:HD3	1.78	0.64
45:WM:221:ARG:NH1	46:WN:322:SER:OG	2.29	0.64
45:DC:36:MET:SD	45:DC:37:PRO:HD2	2.37	0.64
1:0A:138:TRP:CZ3	45:AA:81:GLY:HA2	2.32	0.64
21:1L:524:ARG:NH2	46:BF:357:PRO:O	2.25	0.64
10:1Q:38:THR:HG22	35:4S:208:GLN:NE2	2.07	0.64
9:2N:15:ARG:NH1	46:IB:45:GLU:OE1	2.30	0.64
34:5R:567:ASN:OD1	34:5R:568:ASP:N	2.31	0.64
34:6R:430:LEU:HD22	34:6R:442:PHE:HE1	1.61	0.64
46:AB:309:ARG:NH2	46:AB:426:GLN:O	2.23	0.64
45:AE:118:CYS:O	45:AE:122:ILE:HG12	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AH:396:HIS:HA	46:AH:399:THR:HG22	1.78	0.64
46:AJ:257:LEU:HD11	46:AJ:314:SER:HB2	1.79	0.64
45:AM:226:ASN:ND2	45:AM:367:ASP:OD2	2.29	0.64
46:AN:44:LEU:HA	46:AN:47:ILE:HD11	1.80	0.64
46:BN:178:THR:HB	46:BN:181:GLU:HG3	1.79	0.64
46:CD:236:VAL:HG23	46:CD:237:THR:HG23	1.79	0.64
46:CF:182:PRO:HD2	46:CF:388:MET:HE1	1.79	0.64
46:CH:375:GLN:HG3	46:CH:379:LYS:NZ	2.12	0.64
46:CL:91:VAL:HG21	46:CL:116:VAL:HB	1.80	0.64
46:CL:324:LYS:HG2	45:CM:222:PRO:HG2	1.78	0.64
45:DI:244:PHE:HB2	45:DI:356:ASN:HD21	1.62	0.64
46:DN:100:ASN:HD22	46:DN:103:LYS:HG3	1.63	0.64
46:EB:358:PRO:HB2	46:EB:361:LEU:HD13	1.79	0.64
45:EE:9:VAL:HG12	45:EE:68:LEU:HB2	1.78	0.64
45:FE:64:ARG:NH1	45:FE:129:CYS:SG	2.70	0.64
46:FJ:293:MET:SD	46:FJ:365:VAL:HG11	2.38	0.64
45:GC:287:SER:N	45:GC:290:GLU:OE2	2.26	0.64
45:GG:407:TRP:HZ2	46:GH:258:ILE:HD11	1.60	0.64
46:GH:215:LEU:HD21	46:GH:273:LEU:HD12	1.79	0.64
46:GN:246:LEU:HD13	46:GN:353:ILE:HD13	1.78	0.64
45:HG:64:ARG:NH1	45:HG:129:CYS:SG	2.71	0.64
45:HM:188:ILE:HD12	45:HM:425:LEU:HD11	1.80	0.64
46:HN:215:LEU:HB3	46:HN:217:LEU:HD13	1.80	0.64
45:IG:55:GLU:HG3	45:IG:57:GLY:H	1.61	0.64
45:IK:272:TYR:HB3	45:IK:275:ILE:HD11	1.79	0.64
45:JK:222:PRO:HD2	46:JL:324:LYS:HZ2	1.61	0.64
45:JK:308:ARG:HH11	45:JK:340:THR:HG22	1.62	0.64
46:JL:350:LYS:NZ	46:JL:352:SER:OG	2.30	0.64
45:JM:71:GLU:HB2	46:JN:2:ARG:HH12	1.62	0.64
45:KA:288:VAL:HA	45:KA:291:ILE:HG12	1.79	0.64
45:LE:292:THR:HG21	45:LE:331:SER:HB2	1.78	0.64
45:MC:254:GLU:OE1	46:MF:99:ASN:ND2	2.30	0.64
46:NB:1:MET:N	46:NB:3:GLU:OE1	2.25	0.64
45:NC:73:THR:O	45:NC:77:GLU:HG2	1.97	0.64
45:OK:276:ILE:HG23	45:OK:280:LYS:HE2	1.78	0.64
46:PJ:100:ASN:HB3	46:PJ:103:LYS:HB2	1.80	0.64
45:PM:244:PHE:HB2	45:PM:356:ASN:HD21	1.61	0.64
45:QA:188:ILE:HD12	45:QA:425:LEU:HD11	1.79	0.64
46:QF:346:PRO:O	45:QG:394:LYS:NZ	2.29	0.64
46:QH:165:GLU:HG3	46:QH:250:LEU:HD11	1.77	0.64
46:QJ:322:SER:O	45:QK:221:ARG:NH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RM:288:VAL:HG11	45:RM:327:ASP:HB3	1.79	0.64
46:SD:121:ARG:NH2	46:SD:158:GLU:OE1	2.31	0.64
46:SL:139:LEU:HD22	46:SL:170:VAL:HG12	1.79	0.64
46:SL:186:THR:HG23	46:SL:415:MET:HE1	1.80	0.64
45:TC:2:ARG:HH21	46:TD:70:PRO:HD3	1.62	0.64
45:TM:80:THR:O	45:TM:84:ARG:NH2	2.27	0.64
46:UD:372:THR:HA	46:UD:422:TYR:HE2	1.63	0.64
45:UM:214:ARG:HH12	45:UM:220:GLU:HG2	1.61	0.64
45:VI:260:VAL:HB	46:VL:397:TRP:CZ2	2.32	0.64
46:WB:11:GLN:OE1	46:WB:15:GLN:NE2	2.24	0.64
45:WK:173:PRO:O	45:WK:390:ARG:NH2	2.30	0.64
45:WM:181:VAL:HG13	46:WN:350:LYS:HZ3	1.62	0.64
19:1J:122:ARG:HH22	45:IE:218:ASP:HB3	1.63	0.64
4:2D:187:PHE:HB2	46:FJ:322:SER:HB3	1.78	0.64
23:2O:239:ILE:HG13	46:VJ:276:ARG:HH12	1.62	0.64
35:4S:193:PHE:HB3	35:4S:214:LEU:HD12	1.78	0.64
40:6G:201:MET:O	46:VF:336:LYS:NZ	2.30	0.64
45:AC:76:ASP:OD1	45:AC:79:ARG:NH2	2.31	0.64
45:AE:115:VAL:HG11	45:AE:152:LEU:HD23	1.79	0.64
45:BA:101:ASN:HA	45:BA:144:GLY:H	1.62	0.64
45:BM:287:SER:N	45:BM:290:GLU:OE1	2.29	0.64
46:DB:268:ILE:HG13	46:DB:300:MET:HG3	1.80	0.64
46:DJ:376:GLU:OE1	46:DJ:380:ARG:NH2	2.30	0.64
46:DL:309:ARG:NH2	46:DL:426:GLN:O	2.28	0.64
46:DN:73:MET:HA	46:DN:76:VAL:HG12	1.79	0.64
45:EC:11:GLN:NE2	47:EC:501:GTP:O3A	2.29	0.64
45:EG:338:LYS:HZ2	45:EG:340:THR:H	1.45	0.64
45:EI:226:ASN:ND2	45:EI:367:ASP:OD2	2.29	0.64
46:FF:242:PHE:HB3	46:FF:356:ILE:HD13	1.80	0.64
46:FH:289:LEU:HD13	46:FH:365:VAL:HG23	1.78	0.64
46:GF:371:SER:O	46:GF:422:TYR:OH	2.15	0.64
45:GK:328:VAL:HG11	45:GK:353:VAL:HG21	1.79	0.64
45:IG:121:ARG:NH1	45:IG:124:LYS:HE3	2.12	0.64
46:JH:31:ASP:OD1	46:JH:35:THR:N	2.27	0.64
45:LC:206:ASN:OD1	47:LC:501:GTP:N2	2.31	0.64
46:LF:166:THR:OG1	46:LF:199:CYS:SG	2.55	0.64
45:MC:91:GLN:HG2	45:MC:121:ARG:HD2	1.80	0.64
45:ME:60:LYS:NZ	45:ME:85:GLN:O	2.28	0.64
46:NH:68:LEU:HD13	46:NH:93:GLY:HA3	1.79	0.64
46:OD:154:LYS:HA	46:OD:154:LYS:HE3	1.80	0.64
46:PD:293:MET:HG2	46:PD:365:VAL:HG11	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QD:260:PHE:HB2	46:QD:263:LEU:HD13	1.79	0.64
46:QD:284:LEU:HD11	46:QD:362:LYS:HG2	1.80	0.64
46:QF:86:ARG:NH2	46:RF:281:TYR:O	2.31	0.64
46:RB:5:VAL:HG12	46:RB:62:ARG:HD3	1.79	0.64
46:TH:284:LEU:HD12	46:TH:289:LEU:HD11	1.78	0.64
46:TL:97:ALA:HA	46:TL:103:LYS:NZ	2.13	0.64
46:TL:258:ILE:H	45:TM:407:TRP:HH2	1.45	0.64
45:UC:75:ILE:HD12	45:UC:92:LEU:HB3	1.78	0.64
46:VB:318:ARG:HG2	46:VB:357:PRO:HA	1.80	0.64
45:VK:209:ILE:HD13	45:VK:302:MET:HG3	1.77	0.64
45:VK:256:GLN:O	46:VN:397:TRP:NE1	2.29	0.64
46:WH:178:THR:HG22	46:WH:180:VAL:H	1.63	0.64
45:WK:140:SER:OG	47:WK:501:GTP:O2B	2.16	0.64
35:4S:150:LEU:HB3	35:4S:189:VAL:HG11	1.80	0.64
37:5G:172:ASN:HB2	37:5G:176:ASP:HB3	1.78	0.64
37:5H:111:ASN:HB3	46:NN:44:LEU:HD13	1.78	0.64
10:6Q:41:ASP:OD2	10:6Q:81:LYS:NZ	2.31	0.64
34:6R:256:LEU:HD23	34:6R:280:LEU:HD23	1.80	0.64
34:6R:415:LYS:NZ	34:6R:451:ASP:OD2	2.28	0.64
44:8R:154:ALA:HA	44:8R:157:TYR:CE1	2.31	0.64
45:AA:145:THR:OG1	47:AA:501:GTP:O1B	2.16	0.64
46:AF:167:PHE:CE1	46:AF:233:MET:HG2	2.32	0.64
45:AG:226:ASN:ND2	45:AG:367:ASP:OD2	2.30	0.64
46:AL:222:TYR:O	46:AL:226:ASN:ND2	2.20	0.64
46:BN:274:THR:HB	46:BN:282:ARG:HH11	1.63	0.64
46:CL:274:THR:OG1	46:CL:279:GLN:OE1	2.15	0.64
46:DD:73:MET:HA	46:DD:76:VAL:HG12	1.80	0.64
46:EL:97:ALA:HB3	46:EL:143:THR:HG22	1.79	0.64
45:FE:336:LYS:O	45:FE:339:ARG:NH2	2.31	0.64
46:GH:1:MET:HE2	46:GH:2:ARG:H	1.63	0.64
46:GL:202:ILE:HD11	46:GL:268:ILE:HD11	1.78	0.64
46:GN:260:PHE:HB2	46:GN:263:LEU:HD13	1.79	0.64
46:HN:203:ASP:OD2	46:HN:302:ALA:N	2.24	0.64
46:IF:372:THR:HA	46:IF:422:TYR:HE2	1.62	0.64
45:IK:175:PRO:HG2	45:IK:304:LYS:HG2	1.80	0.64
46:IL:174:LYS:HA	46:IL:174:LYS:HE3	1.79	0.64
45:JI:254:GLU:OE1	45:JI:352:LYS:NZ	2.30	0.64
46:KH:156:ARG:NH1	46:KH:197:ASP:OD2	2.30	0.64
45:KK:51:THR:HG21	45:KK:243:ARG:HD3	1.77	0.64
46:MN:103:LYS:HA	46:MN:107:THR:HG22	1.79	0.64
46:NB:178:THR:HB	46:NB:181:GLU:HG3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:117:LEU:HD21	46:ND:154:LYS:HE2	1.78	0.64
46:NH:344:TRP:HB3	46:NH:430:ALA:HB2	1.80	0.64
45:OA:294:SER:O	45:OA:300:ASN:ND2	2.28	0.64
46:OD:286:VAL:HG23	46:OD:287:PRO:HD3	1.80	0.64
46:PD:282:ARG:NH2	46:PD:292:GLN:OE1	2.29	0.64
45:QC:224:TYR:HD1	45:QC:227:LEU:HD12	1.63	0.64
45:QM:304:LYS:HD2	45:QM:304:LYS:O	1.97	0.64
46:RB:139:LEU:HD22	46:RB:170:VAL:HG12	1.78	0.64
45:SE:280:LYS:HA	45:SE:283:HIS:CD2	2.30	0.64
45:SI:64:ARG:NH1	45:SI:129:CYS:SG	2.71	0.64
45:TG:98:ASP:O	45:TG:105:ARG:NH1	2.30	0.64
46:TJ:253:LEU:HA	46:TJ:350:LYS:HZ1	1.63	0.64
46:UB:251:ARG:HE	45:UC:105:ARG:HH22	1.45	0.64
45:UC:316:SER:HA	45:UC:352:LYS:HB3	1.79	0.64
46:UJ:86:ARG:HB3	46:UJ:89:ASN:ND2	2.12	0.64
46:VB:148:GLY:O	46:VB:152:ILE:HG12	1.97	0.64
46:VD:273:LEU:H	46:VD:292:GLN:HE22	1.46	0.64
46:VD:372:THR:HA	46:VD:422:TYR:HE2	1.61	0.64
46:VF:16:ILE:HD12	46:VF:229:VAL:HG11	1.80	0.64
46:VH:143:THR:OG1	49:VH:501:GDP:O1B	2.16	0.64
45:WG:212:ILE:HD11	45:WG:300:ASN:HA	1.78	0.64
4:OD:224:ARG:NH2	34:7R:492:ILE:O	2.30	0.64
7:OG:155:PRO:HB2	45:KM:29:GLY:HA2	1.78	0.64
1:2A:36:ARG:HD2	46:MJ:42:LEU:HD11	1.79	0.64
20:2K:266:LEU:HD13	45:GK:370:LYS:HE3	1.79	0.64
1:3A:138:TRP:CZ3	45:AM:81:GLY:HA2	2.32	0.64
23:3O:337:PHE:HD1	46:UJ:362:LYS:HZ1	1.42	0.64
37:5F:206:VAL:O	45:LG:430:LYS:NZ	2.30	0.64
46:AB:58:ARG:HH22	46:BB:281:TYR:HA	1.62	0.64
46:AF:210:ILE:O	46:AF:214:THR:OG1	2.12	0.64
46:AH:96:GLY:O	46:AH:103:LYS:NZ	2.31	0.64
46:BF:318:ARG:HB3	46:BF:357:PRO:HA	1.78	0.64
46:DD:8:GLN:NE2	46:DD:14:ASN:OD1	2.31	0.64
46:EB:2:ARG:NH2	45:EC:96:LYS:O	2.30	0.64
46:EJ:1:MET:HG3	46:EJ:2:ARG:HG3	1.79	0.64
46:EL:237:THR:HG23	46:EL:241:ARG:HH21	1.61	0.64
45:IC:336:LYS:HD3	45:IC:351:PHE:HE2	1.62	0.64
46:JB:235:GLY:HA3	46:JB:366:THR:HG21	1.77	0.64
45:JE:88:HIS:CE1	45:JE:90:GLU:HG2	2.33	0.64
45:JM:123:ARG:NH2	45:JM:161:TYR:OH	2.30	0.64
45:LC:269:LEU:HD22	45:LC:384:ILE:HD11	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LJ:6:HIS:NE2	46:LJ:8:GLN:OE1	2.29	0.64
46:LL:207:LEU:HD23	46:LL:225:LEU:HB3	1.80	0.64
46:MB:222:TYR:O	46:MB:226:ASN:ND2	2.26	0.64
46:MB:267:MET:HB2	46:MB:299:MET:CE	2.28	0.64
46:MJ:257:LEU:HD21	46:MJ:314:SER:HB2	1.79	0.64
45:NK:219:ILE:HG13	45:NK:221:ARG:H	1.63	0.64
45:OC:307:PRO:HB3	45:OC:312:TYR:HE1	1.62	0.64
45:OG:292:THR:HG21	45:OG:331:SER:HB3	1.80	0.64
46:ON:254:ALA:O	46:ON:258:ILE:HG22	1.98	0.64
45:QC:55:GLU:HG3	45:QC:57:GLY:H	1.62	0.64
45:QC:400:ALA:O	45:QC:402:ARG:NH1	2.31	0.64
46:RJ:207:LEU:HD13	46:RJ:225:LEU:HB2	1.80	0.64
46:TH:242:PHE:HB3	46:TH:356:ILE:HD13	1.80	0.64
46:TL:322:SER:OG	45:TM:221:ARG:NH2	2.31	0.64
45:VA:216:ASN:ND2	45:VA:275:ILE:O	2.31	0.64
45:VK:133:GLN:HB3	45:VK:252:ILE:HD11	1.80	0.64
46:VL:222:TYR:O	46:VL:226:ASN:ND2	2.24	0.64
4:0D:81:ARG:HH12	46:EB:360:GLY:H	1.44	0.64
4:1D:46:PRO:HG3	46:DF:44:LEU:HD21	1.78	0.64
19:1J:342:LYS:NZ	46:IN:276:ARG:HB3	2.10	0.64
36:5C:125:GLN:O	46:NL:276:ARG:NH1	2.31	0.64
36:5D:43:CYS:SG	46:KN:391:ARG:NE	2.71	0.64
34:6R:128:HIS:HE1	34:6R:143:VAL:HG23	1.62	0.64
45:BC:88:HIS:CD2	45:CC:280:LYS:HZ1	2.16	0.64
45:BI:329:ASN:HD21	46:BL:175:VAL:HG12	1.63	0.64
46:BJ:67:ASP:OD1	46:BJ:68:LEU:N	2.28	0.64
45:BM:64:ARG:NH1	45:BM:129:CYS:SG	2.71	0.64
46:CH:287:PRO:HA	46:CH:329:GLN:HE22	1.62	0.64
45:CM:284:GLU:HG2	45:CM:286:LEU:HD22	1.79	0.64
45:DG:36:MET:HG3	45:DG:38:SER:H	1.62	0.64
45:EG:363:VAL:HG13	45:EG:366:GLY:HA3	1.79	0.64
45:EM:284:GLU:HG2	45:EM:286:LEU:HD12	1.80	0.64
46:FH:16:ILE:HD12	46:FH:229:VAL:HG11	1.79	0.64
46:GF:207:LEU:HB3	46:GF:225:LEU:HD22	1.79	0.64
45:GI:221:ARG:NH1	46:GJ:325:GLU:OE1	2.31	0.64
45:HE:398:MET:HE1	46:HF:346:PRO:HD2	1.79	0.64
46:HH:309:ARG:NH1	46:HH:339:SER:O	2.31	0.64
45:IG:258:ASN:ND2	45:IG:352:LYS:HE3	2.13	0.64
45:KA:387:VAL:HG12	45:KA:390:ARG:HH22	1.63	0.64
46:KB:62:ARG:NH1	46:KB:127:CYS:SG	2.70	0.64
45:KE:116:ASP:OD1	45:KE:117:LEU:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LJ:67:ASP:O	46:LJ:92:PHE:HA	1.97	0.64
46:ND:318:ARG:HB3	46:ND:357:PRO:HA	1.77	0.64
46:OJ:232:ALA:HB1	46:OJ:268:ILE:HG21	1.80	0.64
45:PI:90:GLU:OE2	45:PI:121:ARG:NH2	2.31	0.64
45:QK:167:LEU:HD22	45:QK:200:VAL:HB	1.78	0.64
45:RA:188:ILE:HD12	45:RA:425:LEU:HD11	1.80	0.64
46:RH:73:MET:HA	46:RH:76:VAL:HG22	1.78	0.64
45:RM:8:HIS:CE1	45:RM:138:PHE:HD2	2.16	0.64
46:SF:347:ASN:ND2	45:SG:176:GLN:O	2.31	0.64
46:UD:32:PRO:O	46:UD:83:GLN:NE2	2.31	0.64
45:UE:33:ASP:O	45:UE:60:LYS:NZ	2.27	0.64
45:UE:276:ILE:HD11	45:UE:280:LYS:HG3	1.79	0.64
46:UL:214:THR:O	46:UL:216:LYS:NZ	2.30	0.64
45:WG:288:VAL:HG11	45:WG:327:ASP:HB3	1.80	0.64
45:WI:55:GLU:HG3	45:WI:57:GLY:H	1.63	0.64
2:0B:284:GLN:O	46:KL:276:ARG:NH2	2.30	0.64
4:1D:81:ARG:HH21	46:EF:357:PRO:HG2	1.63	0.64
19:1J:244:LEU:HD22	45:II:221:ARG:HD3	1.79	0.64
14:2V:141:ASN:ND2	45:LG:402:ARG:O	2.31	0.64
14:3V:228:HIS:CE1	46:VD:77:ARG:HG3	2.33	0.64
37:5H:110:ARG:HD3	37:5H:112:ALA:H	1.63	0.64
10:6Q:74:PRO:HB3	10:6Q:148:TYR:CE2	2.33	0.64
34:6R:153:GLN:HE21	34:6R:156:SER:HB2	1.63	0.64
45:AE:179:THR:HG21	46:AF:246:LEU:HD22	1.79	0.64
45:AE:288:VAL:HG11	45:AE:327:ASP:HB3	1.80	0.64
46:CL:47:ILE:HD12	46:CL:59:TYR:HE2	1.63	0.64
45:EC:294:SER:O	45:EC:300:ASN:ND2	2.29	0.64
45:EC:301:MET:HG3	45:EC:303:ALA:H	1.62	0.64
45:EK:9:VAL:HG12	45:EK:68:LEU:HB2	1.78	0.64
46:FJ:213:ARG:O	46:FJ:216:LYS:NZ	2.23	0.64
46:GD:118:ASP:OD1	46:GD:121:ARG:NH2	2.31	0.64
46:GF:77:ARG:NH2	46:GF:83:GLN:OE1	2.30	0.64
45:HG:88:HIS:HA	45:IG:280:LYS:NZ	2.13	0.64
46:JL:268:ILE:HG22	46:JL:368:VAL:HG12	1.78	0.64
46:KB:235:GLY:HA3	46:KB:366:THR:HG21	1.80	0.64
45:KE:167:LEU:HD23	45:KE:200:VAL:HB	1.81	0.64
46:KN:262:ARG:NH2	46:KN:414:ASN:OD1	2.31	0.64
45:LK:207:GLU:HA	45:LK:210:TYR:HD2	1.63	0.64
45:ME:371:VAL:HG12	45:ME:373:ARG:H	1.62	0.64
45:MI:226:ASN:ND2	45:MI:367:ASP:OD2	2.31	0.64
46:NH:163:ILE:HD13	46:NH:251:ARG:HG2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NK:414:GLU:OE1	45:NK:416:GLY:N	2.25	0.64
46:NL:67:ASP:O	46:NL:92:PHE:HA	1.98	0.64
45:OC:268:MET:HG3	45:OC:380:ASN:HB2	1.80	0.64
46:PH:12:CYS:O	46:PH:16:ILE:HG12	1.98	0.64
45:QM:294:SER:O	45:QM:300:ASN:ND2	2.31	0.64
46:QN:100:ASN:ND2	46:QN:401:GLU:OE1	2.31	0.64
45:RM:121:ARG:HH12	45:RM:124:LYS:HE2	1.62	0.64
46:SJ:121:ARG:HH12	46:TJ:336:LYS:HZ3	1.44	0.64
46:SJ:374:ILE:HG12	46:SJ:378:PHE:HE2	1.62	0.64
46:VF:5:VAL:HG12	46:VF:62:ARG:HD3	1.80	0.64
45:VK:337:THR:O	45:VK:339:ARG:NH1	2.31	0.64
46:WD:45:GLU:HG3	46:WD:46:ARG:HG2	1.78	0.64
6:0F:122:LEU:HD22	41:6H:224:SER:HB3	1.81	0.63
17:1F:145:SER:OG	46:GL:74:ASP:OD1	2.15	0.63
27:2C:6:VAL:HG11	15:4X:69:ALA:HB1	1.79	0.63
21:2L:751:ARG:NH2	46:BL:357:PRO:O	2.30	0.63
25:2R:429:GLU:HG3	46:FH:280:GLN:HE21	1.62	0.63
35:4S:213:ASN:OD1	35:4S:214:LEU:N	2.31	0.63
37:5G:209:ARG:NH2	45:LK:264:ARG:HE	1.96	0.63
35:5S:183:TYR:CE1	35:5S:225:LEU:HD21	2.34	0.63
34:6R:593:ASP:OD2	34:6R:598:TRP:N	2.30	0.63
45:AI:430:LYS:HA	45:AI:433:GLU:HG3	1.81	0.63
46:BL:257:LEU:HD11	46:BL:314:SER:HB2	1.80	0.63
45:CG:140:SER:OG	47:CG:501:GTP:O2B	2.16	0.63
46:CH:67:ASP:OD1	46:CH:68:LEU:N	2.29	0.63
45:CK:352:LYS:HE3	46:CL:179:VAL:HG13	1.80	0.63
45:DA:254:GLU:HG2	46:DB:98:GLY:HA2	1.80	0.63
45:EM:269:LEU:HB3	45:EM:301:MET:HE2	1.80	0.63
46:FL:362:LYS:HG3	46:FL:363:MET:SD	2.38	0.63
46:GB:248:SER:HA	46:GB:252:LYS:HG3	1.79	0.63
45:HG:257:THR:HA	46:HJ:397:TRP:HH2	1.62	0.63
46:IL:67:ASP:OD2	46:IL:68:LEU:N	2.30	0.63
45:KC:271:SER:HB2	45:KC:301:MET:HE3	1.79	0.63
45:KG:157:LEU:HD11	45:KG:166:LYS:HD3	1.80	0.63
45:KG:210:TYR:HE1	46:KH:324:LYS:HB3	1.63	0.63
46:KN:55:THR:HG23	46:LN:283:ALA:HA	1.79	0.63
45:MG:265:ILE:HG12	45:MG:432:TYR:HE2	1.61	0.63
45:NI:256:GLN:HG2	46:NL:397:TRP:HH2	1.64	0.63
45:OA:271:SER:HB2	45:OA:377:MET:HB3	1.80	0.63
45:PC:30:ILE:HG21	45:PC:53:PHE:HE2	1.62	0.63
45:PE:88:HIS:CD2	45:QE:280:LYS:HE2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PI:292:THR:HG21	45:PI:331:SER:HB3	1.78	0.63
46:QB:190:HIS:CE1	46:QB:414:ASN:HD22	2.16	0.63
46:QD:350:LYS:HD3	45:QE:180:ALA:HA	1.80	0.63
46:RD:250:LEU:HA	46:RD:253:LEU:HD12	1.80	0.63
45:SC:11:GLN:NE2	47:SC:501:GTP:O3A	2.31	0.63
45:SC:214:ARG:HH11	45:SC:214:ARG:HA	1.61	0.63
45:SE:48:ALA:HB1	45:SE:243:ARG:HB2	1.80	0.63
45:SG:155:GLU:OE1	45:SG:197:HIS:NE2	2.31	0.63
46:SL:32:PRO:HG3	46:SL:81:PHE:HE1	1.63	0.63
46:SL:258:ILE:HG13	45:SM:407:TRP:HZ2	1.61	0.63
46:TL:222:TYR:O	46:TL:226:ASN:ND2	2.27	0.63
45:UA:271:SER:OG	45:UA:301:MET:SD	2.56	0.63
45:VA:96:LYS:NZ	46:VB:129:CYS:SG	2.69	0.63
45:VE:221:ARG:NH2	46:VF:322:SER:H	1.96	0.63
46:VF:389:PHE:HZ	46:VF:405:GLU:HG3	1.62	0.63
45:VI:211:ASP:OD1	45:VI:214:ARG:NH2	2.31	0.63
46:WD:109:GLY:HA2	46:WD:147:MET:HE2	1.79	0.63
8:1H:60:ARG:HH12	46:HN:32:PRO:HB2	1.62	0.63
21:1L:289:PHE:HE1	45:BG:221:ARG:HE	1.44	0.63
34:4R:357:LYS:NZ	34:4R:368:GLN:O	2.30	0.63
35:4S:184:ARG:HG2	35:4S:240:MET:HE1	1.79	0.63
37:5G:135:LYS:HA	37:5G:135:LYS:HE3	1.80	0.63
38:5J:46:UNK:O	45:JE:430:LYS:NZ	2.31	0.63
45:AC:371:VAL:HG12	45:AC:373:ARG:H	1.63	0.63
46:AJ:167:PHE:CE2	46:AJ:233:MET:HG2	2.34	0.63
46:BB:237:THR:HG23	46:BB:241:ARG:HH21	1.64	0.63
46:BF:273:LEU:H	46:BF:292:GLN:HE22	1.45	0.63
45:BI:111:GLY:O	45:BI:115:VAL:HG13	1.98	0.63
45:CA:135:PHE:HB2	45:CA:166:LYS:HG2	1.80	0.63
46:CF:226:ASN:HD21	49:CF:501:GDP:HN1	1.46	0.63
46:CF:325:GLU:OE1	45:CG:221:ARG:NH1	2.30	0.63
46:CJ:95:THR:OG1	46:CJ:108:GLU:OE1	2.15	0.63
45:DA:209:ILE:HG12	45:DA:302:MET:SD	2.38	0.63
45:DG:205:ASP:OD1	45:DG:303:ALA:HA	1.98	0.63
46:EF:139:LEU:HD22	46:EF:170:VAL:HG12	1.80	0.63
46:EH:304:ASP:OD1	46:EH:306:ARG:NH1	2.31	0.63
46:EN:294:PHE:CD2	46:EN:333:VAL:HG11	2.32	0.63
46:FJ:316:LEU:HG	46:FJ:352:SER:HB2	1.80	0.63
46:GB:207:LEU:HB3	46:GB:225:LEU:HD22	1.80	0.63
46:IH:226:ASN:HD21	49:IH:501:GDP:HN1	1.45	0.63
45:KC:64:ARG:NH1	45:KC:129:CYS:SG	2.72	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KM:308:ARG:HG3	45:NM:282:TYR:OH	1.99	0.63
45:LC:294:SER:HA	45:LC:297:GLU:HG2	1.80	0.63
45:LE:286:LEU:N	45:LE:290:GLU:OE2	2.30	0.63
46:NL:285:THR:N	46:NL:288:GLU:OE2	2.31	0.63
45:NM:265:ILE:HG22	45:NM:380:ASN:HD21	1.62	0.63
45:OA:210:TYR:HB3	45:OA:214:ARG:HH22	1.63	0.63
45:OE:208:ALA:HB2	45:OE:304:LYS:HG3	1.80	0.63
46:OJ:19:LYS:HG3	46:OJ:226:ASN:HB3	1.80	0.63
46:OJ:318:ARG:HB3	46:OJ:357:PRO:HA	1.79	0.63
46:PN:48:ASN:O	46:PN:62:ARG:NH1	2.32	0.63
46:RF:61:PRO:HG2	46:RF:85:PHE:HA	1.80	0.63
45:RK:7:ILE:HD11	45:RK:137:VAL:HG12	1.79	0.63
46:SF:256:ASN:HD22	46:SF:350:LYS:HD2	1.63	0.63
46:SL:222:TYR:O	46:SL:226:ASN:ND2	2.26	0.63
46:TH:113:ILE:HG21	46:TH:150:LEU:HD22	1.80	0.63
46:TL:31:ASP:OD1	46:TL:35:THR:N	2.25	0.63
46:UL:258:ILE:HD12	46:UL:264:HIS:HB3	1.80	0.63
46:VH:77:ARG:NH2	46:VH:83:GLN:OE1	2.31	0.63
46:VN:46:ARG:HH21	46:VN:48:ASN:HB3	1.62	0.63
46:WH:222:TYR:O	46:WH:226:ASN:ND2	2.24	0.63
31:3I:273:GLY:H	46:FJ:92:PHE:HE2	1.44	0.63
34:4R:318:TYR:OH	46:CF:274:THR:N	2.30	0.63
15:4X:126:ARG:HA	15:4X:129:ILE:HG12	1.81	0.63
36:5C:150:PHE:HE1	45:NK:26:LEU:HD11	1.63	0.63
34:7R:397:SER:HG	46:EB:276:ARG:HE	1.45	0.63
46:BF:130:LEU:HB3	46:BF:162:ARG:HE	1.62	0.63
45:BI:210:TYR:CG	46:BJ:324:LYS:HE3	2.33	0.63
46:BL:245:GLN:HE21	46:BL:245:GLN:HA	1.63	0.63
46:DD:178:THR:HB	46:DD:181:GLU:HG3	1.80	0.63
45:FC:254:GLU:HG2	46:FF:98:GLY:HA2	1.79	0.63
45:GE:324:VAL:HG12	45:GE:326:LYS:H	1.63	0.63
45:IC:226:ASN:ND2	45:IC:367:ASP:OD2	2.31	0.63
45:IG:91:GLN:HB3	45:IG:121:ARG:HH21	1.63	0.63
46:IH:164:MET:HB3	46:IH:197:ASP:H	1.63	0.63
45:IK:173:PRO:O	45:IK:390:ARG:NH2	2.31	0.63
46:JN:202:ILE:HD11	46:JN:268:ILE:HD11	1.80	0.63
45:KA:11:GLN:HG3	45:KA:74:VAL:HG11	1.79	0.63
45:KA:36:MET:HB2	45:KA:61:HIS:HE1	1.63	0.63
45:KE:288:VAL:HG11	45:KE:327:ASP:HB3	1.80	0.63
46:KF:284:LEU:HD11	46:KF:362:LYS:HB2	1.79	0.63
45:KI:116:ASP:OD1	45:KI:117:LEU:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LB:262:ARG:NH1	46:LB:421:GLU:OE2	2.30	0.63
45:NM:210:TYR:CE2	46:NN:324:LYS:HB3	2.33	0.63
45:OA:50:ASN:O	45:OA:64:ARG:NH1	2.20	0.63
45:PG:121:ARG:HE	45:PG:124:LYS:HE2	1.64	0.63
46:PJ:236:VAL:HG23	46:PJ:237:THR:HG23	1.79	0.63
45:PM:288:VAL:HG21	45:PM:327:ASP:HB3	1.80	0.63
46:QF:49:VAL:HG23	46:QF:50:TYR:CD1	2.33	0.63
45:QI:271:SER:HA	45:QI:302:MET:HG3	1.80	0.63
46:QJ:22:GLU:HG2	46:QJ:81:PHE:HD1	1.63	0.63
46:QJ:54:ALA:HA	46:RJ:283:ALA:HB2	1.80	0.63
45:RA:226:ASN:OD1	45:RA:229:ARG:NH2	2.23	0.63
46:RL:314:SER:HA	46:RL:350:LYS:O	1.97	0.63
46:SH:259:PRO:HG2	46:SH:311:LEU:HD21	1.80	0.63
46:TL:2:ARG:HH22	45:TM:71:GLU:HA	1.64	0.63
45:UC:286:LEU:O	45:UC:373:ARG:NH2	2.31	0.63
46:UJ:139:LEU:HD13	46:UJ:168:SER:HB3	1.79	0.63
45:UM:269:LEU:HD11	45:UM:384:ILE:HD13	1.79	0.63
46:WD:2:ARG:H	46:WD:129:CYS:HB3	1.61	0.63
45:WE:284:GLU:HG2	45:WE:286:LEU:HD22	1.80	0.63
46:WF:396:HIS:HA	46:WF:399:THR:HG22	1.81	0.63
45:WG:319:TYR:HB3	45:WG:323:VAL:HG11	1.79	0.63
45:DC:2:ARG:NH1	45:DC:242:LEU:O	2.31	0.63
14:0V:24:ARG:HH22	45:MM:433:GLU:HB2	1.61	0.63
26:2W:265:LEU:HD22	45:LK:370:LYS:NZ	2.13	0.63
25:3R:300:LYS:HZ1	46:CL:79:GLY:HA2	1.64	0.63
12:3T:132:PRO:HD3	45:MK:123:ARG:HH12	1.64	0.63
37:5H:20:LEU:HD22	46:NL:45:GLU:HB3	1.80	0.63
34:5R:33:LEU:H	45:LG:1:MET:HE1	1.62	0.63
40:6G:210:ARG:NH1	46:VF:296:ALA:O	2.32	0.63
46:AB:372:THR:OG1	46:AB:426:GLN:NE2	2.31	0.63
46:AD:68:LEU:HD12	46:AD:93:GLY:HA3	1.79	0.63
46:AJ:67:ASP:O	46:AJ:92:PHE:HA	1.96	0.63
45:BC:297:GLU:OE2	45:BC:300:ASN:ND2	2.32	0.63
45:BI:222:PRO:HG2	46:BJ:324:LYS:HE2	1.79	0.63
45:BM:276:ILE:HD12	45:BM:281:ALA:HA	1.80	0.63
46:CF:31:ASP:OD2	46:CF:37:HIS:ND1	2.31	0.63
46:DD:323:THR:HG1	45:DE:210:TYR:HH	1.44	0.63
46:EJ:394:PHE:HA	46:EJ:397:TRP:HZ3	1.63	0.63
45:EM:256:GLN:HG3	46:EN:397:TRP:HE1	1.63	0.63
45:FA:254:GLU:HG2	46:FD:98:GLY:HA2	1.81	0.63
46:FB:245:GLN:HB2	46:FB:353:ILE:HB	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GI:221:ARG:NH1	45:GI:221:ARG:HA	2.13	0.63
46:GN:173:PRO:HG2	46:GN:380:ARG:HD3	1.80	0.63
46:HB:207:LEU:HB3	46:HB:225:LEU:HD22	1.81	0.63
45:HE:352:LYS:NZ	46:HH:179:VAL:H	1.96	0.63
46:IB:318:ARG:HE	46:IB:358:PRO:HG3	1.63	0.63
46:ID:67:ASP:OD2	46:ID:72:THR:OG1	2.16	0.63
45:JA:298:PRO:HD2	45:JA:299:ALA:H	1.63	0.63
46:JN:256:ASN:ND2	46:JN:350:LYS:HE3	2.13	0.63
45:KG:56:THR:HG23	45:KG:58:ALA:H	1.63	0.63
45:LA:11:GLN:NE2	46:LB:245:GLN:O	2.31	0.63
45:LG:98:ASP:OD1	45:LG:99:ALA:N	2.32	0.63
45:MA:9:VAL:HG12	45:MA:68:LEU:HB2	1.81	0.63
46:MF:405:GLU:HA	46:MF:408:PHE:HD2	1.62	0.63
45:MK:48:ALA:HB1	45:MK:243:ARG:HB2	1.81	0.63
46:OB:328:GLU:O	46:OB:332:ASN:ND2	2.32	0.63
46:OD:182:PRO:HG3	46:OD:384:GLN:HG3	1.80	0.63
45:OI:31:GLN:HG2	45:OI:37:PRO:HG3	1.81	0.63
45:PC:107:HIS:HA	45:PC:152:LEU:HD11	1.81	0.63
45:QE:88:HIS:HE1	45:QE:90:GLU:HB2	1.64	0.63
46:QF:309:ARG:NH2	46:QF:426:GLN:O	2.26	0.63
45:RC:244:PHE:HB2	45:RC:356:ASN:HD21	1.63	0.63
45:RG:254:GLU:OE2	45:RG:258:ASN:ND2	2.32	0.63
45:RK:244:PHE:HB2	45:RK:356:ASN:HD21	1.63	0.63
46:TB:86:ARG:NH1	46:TB:89:ASN:OD1	2.32	0.63
45:TC:241:SER:OG	45:TC:250:VAL:O	2.17	0.63
45:TC:389:SER:O	45:TC:393:HIS:ND1	2.28	0.63
45:TM:136:LEU:HD12	45:TM:169:PHE:HE2	1.64	0.63
45:UA:188:ILE:HD12	45:UA:425:LEU:HD11	1.80	0.63
46:UB:207:LEU:HB3	46:UB:225:LEU:HD22	1.80	0.63
46:UF:316:LEU:HD13	46:UF:352:SER:HB2	1.79	0.63
46:UJ:64:ILE:HD13	46:UJ:119:VAL:HG13	1.79	0.63
45:UM:358:GLN:NE2	45:UM:359:PRO:O	2.31	0.63
46:VF:293:MET:HE2	46:VF:367:PHE:HB2	1.81	0.63
46:VL:285:THR:HB	46:VL:287:PRO:HD2	1.80	0.63
45:WA:188:ILE:HD12	45:WA:425:LEU:HD11	1.79	0.63
46:WB:318:ARG:HB3	46:WB:357:PRO:HA	1.80	0.63
46:WL:236:VAL:HG13	46:WL:237:THR:HG23	1.79	0.63
36:5A:43:CYS:HA	36:5A:57:PRO:HA	1.79	0.63
34:5R:80:ARG:NH1	45:MI:38:SER:OG	2.30	0.63
41:6H:167:LYS:HE3	46:FB:361:LEU:HA	1.81	0.63
46:AJ:222:TYR:O	46:AJ:226:ASN:ND2	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AM:402:ARG:HD3	45:AM:405:VAL:HG21	1.79	0.63
46:BF:143:THR:OG1	49:BF:501:GDP:O1B	2.17	0.63
46:BL:58:ARG:HD2	46:CJ:280:GLN:HE22	1.63	0.63
46:BL:248:SER:HA	46:BL:252:LYS:HG3	1.81	0.63
46:CF:153:SER:HB2	46:CF:191:GLN:HE21	1.62	0.63
46:DH:267:MET:HG3	46:DH:299:MET:HE1	1.81	0.63
46:DJ:268:ILE:HG22	46:DJ:368:VAL:HG22	1.81	0.63
45:DK:88:HIS:ND1	45:DK:91:GLN:OE1	2.30	0.63
45:DK:255:PHE:O	45:DK:259:LEU:HB2	1.97	0.63
46:DN:222:TYR:O	46:DN:226:ASN:ND2	2.27	0.63
46:EN:83:GLN:O	46:FN:281:TYR:OH	2.16	0.63
46:FD:211:CYS:HB2	46:FD:217:LEU:HD21	1.79	0.63
45:GC:90:GLU:OE1	45:GC:121:ARG:NH2	2.31	0.63
45:HI:102:ASN:HB3	45:HI:105:ARG:HG3	1.80	0.63
46:IF:148:GLY:O	46:IF:152:ILE:HG12	1.99	0.63
46:LB:31:ASP:OD1	46:LB:35:THR:N	2.31	0.63
47:LC:501:GTP:O1G	46:LD:252:LYS:NZ	2.32	0.63
46:LD:316:LEU:HD13	46:LD:352:SER:HB2	1.81	0.63
46:MF:67:ASP:O	46:MF:92:PHE:HA	1.99	0.63
46:ND:257:LEU:HD21	46:ND:314:SER:HB3	1.80	0.63
46:OF:86:ARG:HD3	46:OF:87:PRO:HD2	1.81	0.63
45:OG:399:TYR:OH	45:OG:415:GLU:OE2	2.16	0.63
45:OM:387:VAL:HA	45:OM:390:ARG:HG2	1.80	0.63
45:PG:248:LEU:HB3	45:PG:355:ILE:HG12	1.81	0.63
46:QB:266:PHE:CE1	46:QB:370:ASN:HB2	2.34	0.63
46:QH:208:TYR:HE1	46:QH:225:LEU:HD11	1.62	0.63
45:QK:26:LEU:HD13	45:QK:363:VAL:HG12	1.78	0.63
46:RD:387:ALA:HA	46:RD:390:ARG:HE	1.63	0.63
46:RF:297:LYS:HE3	46:RF:297:LYS:HA	1.81	0.63
46:TB:257:LEU:HD11	46:TB:314:SER:HB3	1.79	0.63
45:TK:89:PRO:HD2	45:UK:280:LYS:HZ2	1.63	0.63
45:TK:226:ASN:ND2	45:TK:367:ASP:OD2	2.31	0.63
45:UA:272:TYR:HB3	45:UA:275:ILE:HD11	1.79	0.63
46:UB:318:ARG:HG2	46:UB:357:PRO:HA	1.80	0.63
45:UC:101:ASN:HA	45:UC:144:GLY:H	1.62	0.63
46:UF:68:LEU:HB3	46:UF:96:GLY:HA2	1.81	0.63
46:UH:189:VAL:HA	46:UH:192:LEU:HB2	1.79	0.63
46:UH:222:TYR:O	46:UH:226:ASN:ND2	2.26	0.63
46:VH:1:MET:HG2	46:VH:2:ARG:H	1.61	0.63
46:VH:207:LEU:HB3	46:VH:225:LEU:HD22	1.81	0.63
45:WA:258:ASN:ND2	45:WA:352:LYS:HE3	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WL:207:LEU:HD13	46:WL:225:LEU:HB2	1.80	0.63
4:2D:81:ARG:NH1	46:EJ:357:PRO:HD2	2.14	0.63
9:2N:1:MET:H3	45:IA:95:GLY:HA2	1.61	0.63
37:5E:120:GLU:HG2	37:5E:121:GLU:N	2.13	0.63
34:7R:570:VAL:HG12	34:7R:585:ILE:HD13	1.80	0.63
45:AA:98:ASP:O	45:AA:105:ARG:NH1	2.32	0.63
46:BD:156:ARG:NH1	46:BD:195:ASN:O	2.32	0.63
45:BM:98:ASP:O	45:BM:105:ARG:NH1	2.32	0.63
46:CL:316:LEU:HD13	46:CL:352:SER:HB2	1.81	0.63
45:DE:163:LYS:HA	45:DE:163:LYS:HE3	1.81	0.63
46:DL:256:ASN:ND2	46:DL:350:LYS:HE2	2.13	0.63
46:DN:290:THR:HA	46:DN:293:MET:HG2	1.81	0.63
46:EJ:31:ASP:OD1	46:EJ:35:THR:N	2.32	0.63
46:FN:156:ARG:NH1	46:FN:164:MET:SD	2.72	0.63
46:HH:213:ARG:HH21	46:HH:297:LYS:HB3	1.64	0.63
45:IM:34:GLY:HA3	45:IM:60:LYS:HG3	1.79	0.63
46:IN:152:ILE:HA	46:IN:164:MET:HE1	1.78	0.63
46:MN:209:ASP:OD2	46:MN:213:ARG:NH1	2.31	0.63
46:ND:86:ARG:HA	46:OD:281:TYR:HD2	1.62	0.63
46:NN:16:ILE:HD11	46:NN:229:VAL:HG11	1.81	0.63
45:OK:27:GLU:OE2	45:OK:320:ARG:NH2	2.32	0.63
45:QE:224:TYR:HD1	45:QE:227:LEU:HD12	1.64	0.63
45:QE:345:ASP:OD2	45:QE:346:TRP:N	2.31	0.63
45:QG:328:VAL:HG11	45:QG:353:VAL:HG21	1.80	0.63
45:RM:188:ILE:HG12	45:RM:421:ALA:HB1	1.80	0.63
45:RM:326:LYS:HE2	46:RN:220:PRO:HD2	1.80	0.63
45:SC:108:TYR:HA	45:SC:112:LYS:HE3	1.81	0.63
45:SG:87:PHE:HD1	45:SG:92:LEU:HD11	1.62	0.63
46:TB:139:LEU:HD22	46:TB:170:VAL:HG12	1.81	0.63
46:TJ:97:ALA:HB3	46:TJ:143:THR:HB	1.80	0.63
46:UH:372:THR:HA	46:UH:422:TYR:HE2	1.63	0.63
45:VA:387:VAL:HA	45:VA:390:ARG:NE	2.13	0.63
46:VH:6:HIS:O	46:VH:63:ALA:HA	1.97	0.63
46:VH:139:LEU:HD21	46:VH:168:SER:HB3	1.81	0.63
45:VI:68:LEU:HD13	45:VI:93:ILE:HB	1.81	0.63
45:WC:221:ARG:NH1	46:WD:322:SER:OG	2.32	0.63
46:WH:309:ARG:NH2	46:WH:426:GLN:O	2.28	0.63
26:1W:165:ILE:HD13	46:LD:279:GLN:HE22	1.62	0.63
4:2D:99:ARG:HH12	45:EK:364:PRO:HA	1.64	0.63
14:2V:73:ARG:HG2	46:LF:121:ARG:HH12	1.64	0.63
41:6H:258:THR:N	46:FF:320:ARG:HH22	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6R:321:MET:O	46:CN:279:GLN:NE2	2.30	0.63
46:AD:190:HIS:CD2	46:AD:414:ASN:HD22	2.17	0.63
45:AI:76:ASP:OD2	46:AJ:46:ARG:NH2	2.32	0.63
46:BN:135:ILE:HG13	46:BN:152:ILE:HD11	1.79	0.63
46:CB:318:ARG:HH12	46:CB:358:PRO:HG3	1.60	0.63
45:CC:339:ARG:O	45:CC:342:GLN:NE2	2.31	0.63
46:DL:256:ASN:HD21	46:DL:350:LYS:HE2	1.61	0.63
45:EC:260:VAL:HB	46:ED:397:TRP:HZ2	1.63	0.63
46:FJ:58:ARG:HH12	46:GJ:280:GLN:HE22	1.44	0.63
46:GN:178:THR:HG22	46:GN:180:VAL:H	1.63	0.63
45:HA:294:SER:O	45:HA:300:ASN:ND2	2.24	0.63
45:II:98:ASP:OD1	45:II:99:ALA:N	2.32	0.63
46:IL:11:GLN:NE2	49:IL:501:GDP:O1A	2.32	0.63
45:IM:288:VAL:HG11	45:IM:327:ASP:HB3	1.80	0.63
45:JI:206:ASN:OD1	47:JI:501:GTP:N2	2.27	0.63
45:KC:127:ASP:OD1	45:KC:128:ASN:N	2.31	0.63
45:KI:9:VAL:HG12	45:KI:68:LEU:HB2	1.80	0.63
45:LE:163:LYS:HA	45:LE:163:LYS:HE3	1.81	0.63
45:NM:174:SER:OG	45:NM:206:ASN:OD1	2.16	0.63
45:QA:56:THR:HG23	45:QA:58:ALA:H	1.64	0.63
46:QD:12:CYS:HA	46:QD:15:GLN:HE21	1.63	0.63
46:QD:86:ARG:HH11	46:QD:88:ASP:HB3	1.64	0.63
45:QM:101:ASN:HA	45:QM:144:GLY:H	1.63	0.63
46:RB:169:VAL:HG12	46:RB:202:ILE:HB	1.80	0.63
46:RH:371:SER:O	46:RH:422:TYR:OH	2.13	0.63
45:RI:284:GLU:HG2	45:RI:286:LEU:HD22	1.81	0.63
45:SC:292:THR:HG21	45:SC:331:SER:HB2	1.81	0.63
46:SL:322:SER:OG	46:SL:325:GLU:OE1	2.17	0.63
45:SM:75:ILE:HG22	45:SM:79:ARG:HE	1.64	0.63
45:SM:193:SER:O	45:SM:197:HIS:ND1	2.30	0.63
45:TE:120:ASP:O	45:TE:124:LYS:HG2	1.98	0.63
45:TI:328:VAL:HG11	45:TI:353:VAL:HG21	1.80	0.63
46:VJ:6:HIS:O	46:VJ:63:ALA:HA	1.98	0.63
46:VL:73:MET:HA	46:VL:76:VAL:HG12	1.80	0.63
46:WH:7:ILE:HG13	46:WH:135:ILE:HG13	1.80	0.63
45:WM:212:ILE:HD11	45:WM:300:ASN:HA	1.80	0.63
11:1S:96:LEU:HD11	46:MF:190:HIS:HE1	1.62	0.63
34:4R:268:GLU:HG3	46:DF:280:GLN:HG3	1.80	0.63
37:5G:209:ARG:HD2	45:LK:427:ALA:HB1	1.81	0.63
34:7R:341:ARG:HH12	34:7R:344:ASN:HA	1.63	0.63
46:AN:396:HIS:HA	46:AN:399:THR:HG22	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CA:206:ASN:OD1	47:CA:501:GTP:N2	2.32	0.63
46:CF:226:ASN:ND2	49:CF:501:GDP:HN1	1.96	0.63
46:DB:135:ILE:HG21	46:DB:152:ILE:HD11	1.81	0.63
46:DL:178:THR:HB	46:DL:181:GLU:HG3	1.80	0.63
45:DM:174:SER:OG	45:DM:207:GLU:OE1	2.14	0.63
46:EB:27:GLU:OE2	46:EB:241:ARG:NH1	2.30	0.63
46:FF:178:THR:HB	46:FF:181:GLU:HG3	1.81	0.63
45:FK:439:THR:HG21	46:FN:390:ARG:HE	1.63	0.63
45:GA:104:ALA:HB2	45:GA:413:MET:HE3	1.79	0.63
45:GK:178:SER:HB2	46:GL:347:ASN:ND2	2.13	0.63
46:HB:86:ARG:HH21	46:HB:87:PRO:HG2	1.64	0.63
46:HJ:22:GLU:HG2	46:HJ:81:PHE:HD1	1.64	0.63
45:IC:174:SER:OG	45:IC:207:GLU:OE1	2.16	0.63
45:IG:326:LYS:NZ	46:IJ:220:PRO:O	2.31	0.63
46:JD:296:ALA:HB1	46:JD:305:PRO:HD2	1.81	0.63
45:JE:195:LEU:HD21	45:JE:264:ARG:HE	1.64	0.63
45:JG:406:HIS:HA	45:JG:409:VAL:HG12	1.81	0.63
45:KA:60:LYS:HD3	45:LA:282:TYR:HE1	1.62	0.63
46:KL:51:TYR:HB3	46:KL:59:TYR:HB3	1.80	0.63
46:LH:316:LEU:HD13	46:LH:352:SER:HB2	1.81	0.63
46:MF:103:LYS:HA	46:MF:107:THR:HG22	1.81	0.63
46:MF:215:LEU:HD21	46:MF:273:LEU:HD12	1.79	0.63
45:MI:292:THR:HG21	45:MI:331:SER:HB2	1.79	0.63
45:MM:31:GLN:HG3	45:MM:37:PRO:HA	1.80	0.63
45:MM:172:TYR:CE2	45:MM:203:MET:HG3	2.34	0.63
45:NA:192:HIS:CE1	45:NA:424:ASP:OD2	2.51	0.63
45:NE:221:ARG:HA	45:NE:221:ARG:NH1	2.13	0.63
46:OD:309:ARG:NH2	46:OD:341:PHE:O	2.31	0.63
45:OE:337:THR:O	45:OE:339:ARG:NH1	2.32	0.63
45:OI:284:GLU:HG2	45:OI:286:LEU:HD22	1.79	0.63
46:QB:273:LEU:H	46:QB:292:GLN:HE22	1.46	0.63
46:QB:327:ASP:HA	46:QB:330:MET:HE1	1.79	0.63
45:QI:204:LEU:HD23	45:QI:231:ILE:HD12	1.81	0.63
45:RG:259:LEU:HB3	45:RG:268:MET:HE3	1.80	0.63
46:RH:114:ASP:OD1	46:RH:115:SER:N	2.32	0.63
45:RK:109:THR:HG22	45:RK:110:ILE:HG23	1.81	0.63
45:SG:108:TYR:HA	45:SG:112:LYS:HE3	1.81	0.63
46:SH:31:ASP:OD1	46:SH:35:THR:N	2.30	0.63
45:TK:91:GLN:HG2	45:TK:121:ARG:HD2	1.81	0.63
45:VA:326:LYS:NZ	46:VD:219:THR:HA	2.13	0.63
46:WD:74:ASP:HA	46:WD:77:ARG:HE	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WD:222:TYR:O	46:WD:226:ASN:ND2	2.26	0.63
46:WH:260:PHE:HB2	46:WH:263:LEU:HD13	1.81	0.63
46:WJ:7:ILE:HG22	46:WJ:64:ILE:HB	1.79	0.63
46:WN:284:LEU:HD11	46:WN:362:LYS:HB3	1.81	0.63
4:2D:224:ARG:NH2	34:5R:492:ILE:HG23	2.14	0.63
36:5B:147:TYR:HE2	45:NG:18:ASN:HB3	1.63	0.63
36:5C:138:ARG:NH2	46:NL:357:PRO:O	2.32	0.63
34:5R:71:LYS:HD2	34:5R:72:ALA:H	1.64	0.63
45:BA:348:PRO:HD3	46:BD:388:MET:HE1	1.80	0.63
46:BD:67:ASP:O	46:BD:92:PHE:HA	1.99	0.63
46:CB:406:MET:O	46:CB:410:GLU:HG2	1.99	0.63
45:DE:108:TYR:O	45:DE:112:LYS:NZ	2.30	0.63
45:EG:259:LEU:HD21	45:EG:316:SER:HB3	1.81	0.63
45:FI:271:SER:OG	45:FI:301:MET:SD	2.57	0.63
46:HF:135:ILE:HG13	46:HF:152:ILE:HD11	1.81	0.63
46:IN:86:ARG:NH2	45:JK:284:GLU:OE2	2.28	0.63
46:JD:108:GLU:HA	46:JD:111:GLU:HG3	1.81	0.63
45:JI:192:HIS:NE2	45:JI:420:GLU:OE2	2.31	0.63
45:JM:151:SER:O	45:JM:154:LEU:HG	1.98	0.63
45:LE:11:GLN:NE2	46:LF:245:GLN:O	2.32	0.63
46:MJ:135:ILE:HG13	46:MJ:152:ILE:HD11	1.81	0.63
45:NI:222:PRO:O	46:NJ:324:LYS:NZ	2.32	0.63
45:NI:328:VAL:HG11	45:NI:353:VAL:HG21	1.79	0.63
46:OF:328:GLU:O	46:OF:332:ASN:ND2	2.32	0.63
45:OG:222:PRO:O	46:OH:324:LYS:NZ	2.25	0.63
45:OI:203:MET:HG3	45:OI:384:ILE:HD11	1.80	0.63
46:OL:294:PHE:HE2	46:OL:333:VAL:HG11	1.64	0.63
45:PA:389:SER:O	45:PA:393:HIS:ND1	2.27	0.63
45:PG:326:LYS:NZ	46:PJ:219:THR:HA	2.14	0.63
46:QD:266:PHE:CE1	46:QD:370:ASN:HB2	2.34	0.63
46:QH:31:ASP:OD2	46:QH:35:THR:N	2.31	0.63
45:RC:121:ARG:HH12	45:RC:124:LYS:HG3	1.63	0.63
45:RE:326:LYS:HZ1	46:RF:208:TYR:HB3	1.63	0.63
46:RH:194:GLU:OE1	46:RH:414:ASN:ND2	2.29	0.63
46:SB:317:PHE:HB3	46:SB:363:MET:HE1	1.81	0.63
46:SD:318:ARG:HE	46:SD:358:PRO:HG3	1.63	0.63
45:SI:209:ILE:HD12	45:SI:227:LEU:HD22	1.81	0.63
46:SL:375:GLN:HE22	46:SL:423:GLN:HB2	1.64	0.63
46:TD:1:MET:HG3	46:TD:2:ARG:HH11	1.63	0.63
45:TG:156:ARG:HG3	45:TG:156:ARG:HH11	1.63	0.63
46:TL:46:ARG:NH2	45:TM:76:ASP:OD2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TN:139:LEU:HD22	46:TN:170:VAL:HG12	1.79	0.63
46:UF:282:ARG:NH2	46:UF:292:GLN:OE1	2.32	0.63
46:UJ:86:ARG:HH22	46:VJ:278:SER:HA	1.63	0.63
46:VD:309:ARG:NH2	46:VD:426:GLN:O	2.31	0.63
45:VK:254:GLU:HG2	46:VN:98:GLY:HA2	1.81	0.63
21:1L:41:LYS:NZ	46:BJ:39:ASP:O	2.32	0.62
25:1R:454:ARG:HH21	46:FD:219:THR:HG22	1.62	0.62
31:2I:95:LYS:N	46:FF:125:GLU:OE2	2.27	0.62
21:2L:525:LEU:HD12	46:BN:320:ARG:HG2	1.80	0.62
15:2X:42:LYS:NZ	45:LI:56:THR:O	2.24	0.62
41:6H:274:GLU:HG2	41:6H:275:LYS:HD3	1.81	0.62
46:AF:200:MET:HE3	46:AF:268:ILE:HG21	1.81	0.62
45:BA:105:ARG:NH2	45:BA:109:THR:OG1	2.23	0.62
45:BA:173:PRO:O	45:BA:390:ARG:NH2	2.32	0.62
46:BF:262:ARG:NH1	46:BF:421:GLU:OE2	2.32	0.62
45:CA:27:GLU:HB3	45:CA:361:THR:HG21	1.81	0.62
46:DD:31:ASP:OD1	46:DD:35:THR:N	2.29	0.62
46:DF:215:LEU:HD21	46:DF:273:LEU:HD12	1.81	0.62
46:EB:100:ASN:ND2	46:EB:401:GLU:OE1	2.31	0.62
46:ED:166:THR:OG1	46:ED:199:CYS:SG	2.55	0.62
46:EJ:86:ARG:HH22	46:FJ:282:ARG:HA	1.63	0.62
45:FA:398:MET:HE3	46:FB:345:ILE:HD12	1.80	0.62
45:FC:151:SER:O	45:FC:155:GLU:HG3	1.99	0.62
45:FC:210:TYR:CG	46:FD:324:LYS:HD3	2.34	0.62
46:FL:190:HIS:CE1	46:FL:414:ASN:HD22	2.16	0.62
46:GJ:226:ASN:HD21	49:GJ:501:GDP:HN1	1.45	0.62
46:GL:31:ASP:OD2	46:GL:37:HIS:ND1	2.32	0.62
45:HI:121:ARG:HH12	45:HI:124:LYS:HD2	1.64	0.62
45:HI:329:ASN:ND2	46:HL:175:VAL:HG12	2.14	0.62
45:IE:71:GLU:OE2	46:IF:2:ARG:NH2	2.31	0.62
46:IF:287:PRO:HA	46:IF:329:GLN:HE22	1.63	0.62
46:IH:97:ALA:HA	46:IH:103:LYS:HD2	1.80	0.62
45:JA:116:ASP:OD1	45:JA:117:LEU:N	2.31	0.62
45:JI:259:LEU:HD21	45:JI:316:SER:HB2	1.80	0.62
45:OG:221:ARG:HA	46:OH:324:LYS:HZ1	1.64	0.62
45:OM:9:VAL:HG12	45:OM:68:LEU:HB2	1.80	0.62
46:QH:6:HIS:CD2	46:QH:8:GLN:HB2	2.34	0.62
46:RF:268:ILE:HG13	46:RF:300:MET:HE2	1.81	0.62
46:RF:323:THR:HG1	45:RG:210:TYR:HH	1.46	0.62
46:RH:134:GLN:NE2	46:RH:233:MET:SD	2.69	0.62
46:RJ:324:LYS:HB2	45:RK:221:ARG:NH1	2.10	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RL:52:ASN:OD1	46:RL:62:ARG:NH2	2.32	0.62
45:SE:108:TYR:HA	45:SE:112:LYS:HE3	1.80	0.62
46:SF:107:THR:OG1	46:SF:108:GLU:OE1	2.17	0.62
45:TI:287:SER:HA	45:TI:373:ARG:HH12	1.63	0.62
46:TN:145:SER:HB2	46:TN:188:SER:HB3	1.81	0.62
45:VA:396:ASP:OD1	45:VA:422:ARG:NH1	2.32	0.62
45:VE:55:GLU:HG3	45:VE:57:GLY:H	1.64	0.62
45:VE:239:THR:HG23	45:VE:243:ARG:HH21	1.64	0.62
45:VI:223:THR:HG23	45:VI:225:THR:H	1.64	0.62
45:VM:403:ALA:HA	46:VN:260:PHE:HE1	1.63	0.62
45:WC:306:ASP:OD1	45:WC:308:ARG:NH2	2.32	0.62
46:WD:221:THR:HG23	46:WD:224:ASP:H	1.63	0.62
8:1H:187:LEU:HG	45:GG:58:ALA:HB1	1.80	0.62
31:2I:101:GLU:O	46:GF:306:ARG:NH2	2.32	0.62
37:5G:173:LYS:HG3	37:5G:174:ALA:H	1.63	0.62
46:BD:87:PRO:HA	46:BD:90:PHE:HD2	1.64	0.62
46:BF:91:VAL:HG21	46:BF:116:VAL:HB	1.80	0.62
45:BI:69:ASP:OD1	45:BI:70:LEU:N	2.31	0.62
45:DM:55:GLU:HG3	45:DM:57:GLY:H	1.64	0.62
46:EF:258:ILE:HD11	45:EG:407:TRP:HZ2	1.64	0.62
46:EH:316:LEU:HD13	46:EH:352:SER:HB2	1.80	0.62
45:FC:2:ARG:HB3	45:FC:133:GLN:HE21	1.64	0.62
45:FI:407:TRP:HZ2	46:FJ:258:ILE:HD11	1.63	0.62
45:FK:244:PHE:HB2	45:FK:356:ASN:HD21	1.65	0.62
45:FK:407:TRP:HZ2	46:FL:258:ILE:HD11	1.64	0.62
46:GB:100:ASN:ND2	46:GB:401:GLU:OE1	2.32	0.62
46:GB:139:LEU:HD22	46:GB:170:VAL:HG12	1.80	0.62
45:GI:69:ASP:OD1	45:GI:70:LEU:N	2.32	0.62
46:GL:200:MET:HG2	46:GL:266:PHE:HB2	1.80	0.62
46:HD:175:VAL:HG12	46:HD:205:GLU:HG2	1.81	0.62
45:HE:352:LYS:HZ1	46:HH:179:VAL:N	1.96	0.62
46:HL:226:ASN:HD21	49:HL:501:GDP:HN1	1.46	0.62
45:IK:71:GLU:OE2	46:IL:2:ARG:NH2	2.32	0.62
45:KA:326:LYS:HE2	46:KD:220:PRO:HG2	1.81	0.62
46:KL:222:TYR:O	46:KL:226:ASN:ND2	2.24	0.62
45:MG:64:ARG:NH1	45:MG:129:CYS:SG	2.72	0.62
46:NN:7:ILE:HG23	46:NN:135:ILE:HG12	1.82	0.62
46:ON:139:LEU:HD13	46:ON:168:SER:HB3	1.81	0.62
45:PI:80:THR:O	45:PI:84:ARG:NH2	2.32	0.62
46:PJ:222:TYR:O	46:PJ:226:ASN:ND2	2.21	0.62
46:PN:83:GLN:O	46:QL:281:TYR:OH	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RD:68:LEU:HB3	46:RD:96:GLY:HA2	1.81	0.62
46:RD:166:THR:HG1	46:RD:199:CYS:HG	1.36	0.62
45:RG:65:ALA:O	45:RG:91:GLN:NE2	2.31	0.62
45:RM:280:LYS:HE2	45:RM:283:HIS:HD2	1.63	0.62
46:TD:309:ARG:NH2	46:TD:426:GLN:O	2.26	0.62
45:TE:108:TYR:HA	45:TE:112:LYS:HE3	1.81	0.62
45:TE:402:ARG:HH12	45:TE:406:HIS:H	1.48	0.62
46:TL:309:ARG:NH2	46:TL:426:GLN:O	2.29	0.62
46:TN:207:LEU:HB3	46:TN:225:LEU:HD22	1.81	0.62
46:UN:282:ARG:NH2	46:UN:292:GLN:OE1	2.32	0.62
45:VG:221:ARG:NH1	46:VH:324:LYS:HG2	2.14	0.62
45:VG:258:ASN:HD22	46:VJ:179:VAL:HG22	1.63	0.62
46:VJ:148:GLY:O	46:VJ:152:ILE:HG12	2.00	0.62
45:VK:90:GLU:OE1	45:VK:121:ARG:NH1	2.32	0.62
46:WB:135:ILE:HG13	46:WB:152:ILE:HD11	1.80	0.62
46:WL:143:THR:OG1	49:WL:501:GDP:O1B	2.17	0.62
4:1D:187:PHE:HB2	46:FF:322:SER:HB3	1.80	0.62
31:2I:140:ILE:HD11	46:FD:118:ASP:HB3	1.81	0.62
26:2W:251:ARG:NH1	34:6R:17:PHE:O	2.30	0.62
15:4X:1:MET:SD	15:4X:1:MET:N	2.67	0.62
37:5F:116:TYR:CE1	45:NE:85:GLN:HA	2.34	0.62
45:AM:91:GLN:HG2	45:AM:121:ARG:HD2	1.81	0.62
45:BC:396:ASP:OD1	45:BC:422:ARG:NH1	2.32	0.62
46:BH:290:THR:HA	46:BH:293:MET:HG2	1.82	0.62
46:DB:86:ARG:NH2	46:EB:277:GLY:O	2.32	0.62
46:DD:7:ILE:HG22	46:DD:64:ILE:HG12	1.81	0.62
46:DD:164:MET:HB2	46:DD:197:ASP:H	1.64	0.62
45:DI:108:TYR:O	45:DI:112:LYS:NZ	2.30	0.62
46:EN:19:LYS:NZ	46:EN:223:GLY:O	2.33	0.62
45:FK:184:PRO:O	45:FK:188:ILE:HG12	1.99	0.62
46:GF:135:ILE:HG13	46:GF:152:ILE:HD11	1.81	0.62
46:GF:392:LYS:HA	46:GF:395:LEU:HD12	1.80	0.62
46:GJ:371:SER:O	46:GJ:422:TYR:OH	2.17	0.62
46:GL:372:THR:HA	46:GL:422:TYR:HE2	1.63	0.62
45:IC:419:SER:O	45:IC:423:GLU:HG2	1.99	0.62
46:JB:376:GLU:O	46:JB:380:ARG:HG2	1.98	0.62
45:JG:188:ILE:HG23	45:JG:189:LEU:HD12	1.80	0.62
45:LG:84:ARG:HG3	45:LG:85:GLN:HG2	1.81	0.62
45:LK:215:ARG:NH2	45:LK:299:ALA:O	2.32	0.62
46:MH:1:MET:HG2	46:MH:2:ARG:N	2.14	0.62
46:MH:178:THR:HG22	46:MH:180:VAL:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NB:362:LYS:HE3	46:NB:363:MET:SD	2.38	0.62
46:ND:324:LYS:HG3	46:ND:325:GLU:N	2.15	0.62
45:NE:294:SER:HA	45:NE:297:GLU:OE1	2.00	0.62
45:NG:352:LYS:HE2	46:NJ:179:VAL:H	1.64	0.62
45:NI:226:ASN:ND2	45:NI:367:ASP:OD2	2.32	0.62
45:NI:352:LYS:HE3	46:NL:178:THR:HA	1.81	0.62
45:OG:120:ASP:OD2	45:OG:124:LYS:NZ	2.32	0.62
46:PF:248:SER:HA	46:PF:252:LYS:HD2	1.82	0.62
46:QF:258:ILE:HG13	45:QG:407:TRP:HE1	1.64	0.62
46:QF:318:ARG:HB2	46:QF:364:ALA:HB3	1.81	0.62
45:RA:33:ASP:HB2	45:RA:35:GLN:HE22	1.64	0.62
46:RF:183:TYR:HA	46:RF:385:PHE:HE1	1.63	0.62
46:RH:190:HIS:CE1	46:RH:414:ASN:HD22	2.17	0.62
46:RH:246:LEU:HA	45:RI:11:GLN:HE22	1.65	0.62
46:RH:257:LEU:HD11	46:RH:314:SER:HB2	1.80	0.62
46:SF:304:ASP:OD2	46:SF:306:ARG:NH1	2.33	0.62
45:UM:399:TYR:O	45:UM:402:ARG:NH1	2.32	0.62
46:VB:235:GLY:HA3	46:VB:366:THR:HG21	1.81	0.62
46:VH:20:PHE:CZ	46:VH:24:ILE:HD11	2.34	0.62
45:VK:55:GLU:HG3	45:VK:57:GLY:H	1.63	0.62
45:VM:60:LYS:NZ	45:VM:85:GLN:O	2.28	0.62
46:WH:212:PHE:HD1	46:WH:213:ARG:HD3	1.64	0.62
46:WJ:6:HIS:CD2	46:WJ:134:GLN:HE22	2.16	0.62
45:WK:174:SER:OG	45:WK:207:GLU:OE1	2.12	0.62
20:2K:430:GLN:HA	45:GE:282:TYR:HD2	1.63	0.62
12:2T:229:THR:OG1	45:MG:431:ASP:OD2	2.17	0.62
23:3O:246:GLU:HB2	46:UN:276:ARG:NH2	2.13	0.62
35:5S:74:LEU:HB3	35:5S:76:ILE:HG12	1.80	0.62
45:AA:285:GLN:NE2	45:MA:55:GLU:O	2.32	0.62
45:AI:226:ASN:ND2	45:AI:367:ASP:OD2	2.31	0.62
45:AM:11:GLN:HE21	45:AM:15:GLN:HE22	1.48	0.62
45:BC:221:ARG:HA	46:BD:324:LYS:HZ1	1.63	0.62
46:BJ:68:LEU:HB3	46:BJ:96:GLY:HA2	1.81	0.62
46:CD:213:ARG:HH21	46:CD:297:LYS:HB3	1.64	0.62
46:CL:73:MET:HA	46:CL:76:VAL:HG12	1.82	0.62
45:DK:326:LYS:NZ	46:DL:220:PRO:O	2.29	0.62
45:EI:210:TYR:HE1	45:EI:227:LEU:HD11	1.64	0.62
46:EL:136:THR:HG22	46:EL:167:PHE:HD1	1.64	0.62
46:FH:207:LEU:HB3	46:FH:225:LEU:HD22	1.82	0.62
46:GD:322:SER:OG	46:GD:325:GLU:OE1	2.16	0.62
45:GI:292:THR:HG21	45:GI:331:SER:HB3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:200:MET:HG3	46:GN:266:PHE:HB2	1.81	0.62
46:IH:6:HIS:CD2	46:IH:134:GLN:HE22	2.15	0.62
45:II:210:TYR:CZ	46:IJ:324:LYS:HD3	2.34	0.62
46:JB:386:THR:HB	46:JB:390:ARG:HH12	1.64	0.62
46:KF:3:GLU:HG3	46:KF:62:ARG:NH1	2.15	0.62
46:KH:16:ILE:HD12	46:KH:229:VAL:HG11	1.81	0.62
45:KK:56:THR:HG23	45:KK:58:ALA:H	1.64	0.62
45:LA:338:LYS:HZ2	45:LA:340:THR:H	1.47	0.62
46:LJ:135:ILE:HG13	46:LJ:152:ILE:HD11	1.80	0.62
46:MB:114:ASP:OD1	46:MB:115:SER:N	2.33	0.62
46:NB:58:ARG:NH2	46:OB:280:GLN:O	2.33	0.62
46:NL:420:SER:O	46:NL:424:GLN:NE2	2.33	0.62
46:NN:48:ASN:O	46:NN:62:ARG:NH1	2.29	0.62
46:PH:130:LEU:HG	46:PH:162:ARG:HD2	1.82	0.62
45:PK:108:TYR:O	45:PK:112:LYS:NZ	2.29	0.62
46:PN:376:GLU:HA	46:PN:379:LYS:HG2	1.81	0.62
46:QN:222:TYR:O	46:QN:226:ASN:ND2	2.29	0.62
45:RK:31:GLN:HE22	45:RK:37:PRO:HG3	1.62	0.62
45:RM:402:ARG:HD2	45:RM:402:ARG:O	1.99	0.62
46:SF:46:ARG:NH2	45:SG:76:ASP:OD2	2.32	0.62
45:SM:32:PRO:O	45:SM:85:GLN:NE2	2.33	0.62
46:TF:32:PRO:HG3	46:TF:81:PHE:HE1	1.64	0.62
46:UB:67:ASP:O	46:UB:92:PHE:HA	1.99	0.62
45:UE:55:GLU:HG3	45:UE:57:GLY:H	1.64	0.62
46:UF:4:ILE:HD11	46:UF:131:GLN:HB2	1.80	0.62
46:UN:68:LEU:HD12	46:UN:93:GLY:HA3	1.81	0.62
45:VA:207:GLU:HA	45:VA:210:TYR:HD2	1.63	0.62
46:VB:68:LEU:HD12	46:VB:93:GLY:HA3	1.80	0.62
45:VC:27:GLU:OE1	45:VC:243:ARG:NH1	2.33	0.62
46:WF:207:LEU:HB3	46:WF:225:LEU:HD22	1.82	0.62
19:1J:158:GLN:OE1	39:6F:127:TRP:NE1	2.31	0.62
21:2L:901:LYS:HD2	46:CJ:320:ARG:HH22	1.64	0.62
13:3U:124:ASP:OD1	46:WN:276:ARG:NH2	2.32	0.62
37:5E:123:ARG:NH2	45:OA:372:MET:HA	2.13	0.62
34:6R:259:ASN:HB2	34:6R:351:ASN:HB2	1.80	0.62
34:6R:469:LYS:HG3	46:EN:78:ALA:HB2	1.80	0.62
34:7R:493:GLY:N	34:7R:505:LEU:O	2.26	0.62
46:AD:44:LEU:HA	46:AD:47:ILE:HB	1.81	0.62
46:AL:135:ILE:HG13	46:AL:152:ILE:HD11	1.81	0.62
46:AL:372:THR:HA	46:AL:422:TYR:HE2	1.61	0.62
46:BD:67:ASP:OD1	46:BD:68:LEU:N	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CJ:321:MET:HB2	45:CK:221:ARG:HH22	1.64	0.62
45:DA:36:MET:HB3	45:DA:61:HIS:HE1	1.63	0.62
46:DD:5:VAL:HG12	46:DD:62:ARG:HD3	1.80	0.62
46:DD:292:GLN:O	46:DD:298:ASN:ND2	2.33	0.62
45:DE:258:ASN:HD21	46:DF:178:THR:HG23	1.64	0.62
46:DL:86:ARG:HH12	46:EL:278:SER:HA	1.63	0.62
46:DL:396:HIS:HA	46:DL:399:THR:HG22	1.81	0.62
46:ED:67:ASP:O	46:ED:92:PHE:HA	1.98	0.62
46:EF:73:MET:HA	46:EF:76:VAL:HG12	1.82	0.62
46:EF:273:LEU:H	46:EF:292:GLN:HE22	1.46	0.62
46:EN:209:ASP:O	46:EN:213:ARG:HG2	1.99	0.62
45:FG:55:GLU:HG3	45:FG:57:GLY:H	1.64	0.62
45:HE:69:ASP:OD1	45:HE:70:LEU:N	2.32	0.62
46:IH:248:SER:HA	46:IH:252:LYS:HG3	1.80	0.62
46:KD:294:PHE:HD1	46:KD:333:VAL:HG21	1.65	0.62
45:KG:71:GLU:OE1	46:KH:247:ASN:ND2	2.33	0.62
46:KJ:73:MET:HA	46:KJ:76:VAL:HG12	1.81	0.62
45:KK:384:ILE:HB	45:KK:432:TYR:HE2	1.64	0.62
46:KL:273:LEU:H	46:KL:292:GLN:HE22	1.45	0.62
45:LA:123:ARG:NH2	45:LA:161:TYR:HE2	1.96	0.62
45:LC:90:GLU:OE2	45:LC:121:ARG:NH1	2.33	0.62
45:LC:210:TYR:HH	46:LD:323:THR:HG1	1.47	0.62
45:LE:93:ILE:HD11	45:LE:121:ARG:HG3	1.81	0.62
45:NK:96:LYS:HB3	46:NL:2:ARG:HH12	1.63	0.62
45:NK:285:GLN:O	45:NK:373:ARG:NH2	2.28	0.62
45:NM:222:PRO:HD2	46:NN:324:LYS:HE3	1.81	0.62
46:OD:214:THR:O	46:OD:275:SER:OG	2.18	0.62
46:OD:371:SER:O	46:OD:422:TYR:OH	2.13	0.62
45:OE:2:ARG:HB2	45:OE:133:GLN:HE22	1.65	0.62
46:OJ:143:THR:O	46:OJ:147:MET:HG2	1.99	0.62
45:OK:221:ARG:HH21	46:OL:322:SER:N	1.97	0.62
46:PF:48:ASN:O	46:PF:62:ARG:NH1	2.32	0.62
46:PN:125:GLU:OE1	46:QL:336:LYS:NZ	2.30	0.62
45:RG:360:PRO:O	45:RG:370:LYS:NZ	2.31	0.62
46:RH:99:ASN:HA	46:RH:142:GLY:H	1.63	0.62
45:SC:244:PHE:HB2	45:SC:356:ASN:HD21	1.64	0.62
46:SD:58:ARG:NH2	46:TD:280:GLN:OE1	2.33	0.62
46:SF:42:LEU:HA	46:SF:45:GLU:HG3	1.81	0.62
46:SH:51:TYR:O	46:SH:62:ARG:NH2	2.32	0.62
45:SI:90:GLU:O	45:SI:121:ARG:NH2	2.33	0.62
45:SM:284:GLU:HG2	45:SM:286:LEU:HD22	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TE:161:TYR:HB3	45:TE:164:LYS:HE2	1.80	0.62
45:TK:116:ASP:OD1	45:TK:117:LEU:N	2.33	0.62
46:UB:285:THR:HB	46:UB:287:PRO:HD2	1.81	0.62
46:UF:222:TYR:O	46:UF:226:ASN:ND2	2.27	0.62
45:VC:133:GLN:HB3	45:VC:252:ILE:HD11	1.81	0.62
45:VG:11:GLN:NE2	47:VG:501:GTP:O3A	2.31	0.62
45:VK:435:VAL:HA	46:VN:391:ARG:NH2	2.14	0.62
45:WA:111:GLY:O	45:WA:115:VAL:HG13	1.99	0.62
46:WF:1:MET:N	46:WF:3:GLU:OE2	2.29	0.62
46:WJ:49:VAL:HG11	46:WJ:241:ARG:HG2	1.81	0.62
5:0E:141:GLN:OE1	34:7R:497:GLN:NE2	2.32	0.62
26:1W:239:ARG:HG2	46:LB:279:GLN:HE21	1.63	0.62
45:AE:251:ASP:OD1	45:AE:252:ILE:N	2.32	0.62
46:AF:114:ASP:OD1	46:AF:115:SER:N	2.32	0.62
46:AH:226:ASN:HD21	49:AH:501:GDP:HN1	1.46	0.62
45:AK:145:THR:OG1	47:AK:501:GTP:O1B	2.17	0.62
46:AL:48:ASN:O	46:AL:62:ARG:NH1	2.32	0.62
45:BG:181:VAL:N	46:BH:350:LYS:HZ1	1.97	0.62
46:CD:309:ARG:HE	46:CD:342:VAL:HA	1.64	0.62
46:CF:174:LYS:HE3	46:CF:174:LYS:HA	1.81	0.62
45:CG:207:GLU:HA	45:CG:210:TYR:HB2	1.80	0.62
46:DF:273:LEU:H	46:DF:292:GLN:HE22	1.47	0.62
46:FH:222:TYR:O	46:FH:226:ASN:ND2	2.26	0.62
45:GG:132:LEU:O	45:GG:164:LYS:NZ	2.31	0.62
46:IB:97:ALA:HB3	46:IB:143:THR:HB	1.82	0.62
46:JB:133:PHE:HB2	46:JB:164:MET:HG2	1.80	0.62
45:JG:439:THR:HG21	46:JJ:390:ARG:HH22	1.65	0.62
46:KD:113:ILE:HD13	46:KD:150:LEU:HD22	1.81	0.62
46:KH:272:PRO:HB2	46:KH:282:ARG:HH12	1.64	0.62
45:KI:288:VAL:HG11	45:KI:327:ASP:HB3	1.81	0.62
45:LE:124:LYS:HE3	45:LE:124:LYS:HA	1.81	0.62
45:NA:88:HIS:NE2	45:OA:284:GLU:OE2	2.33	0.62
46:OH:237:THR:OG1	46:OH:241:ARG:NH2	2.32	0.62
45:PA:133:GLN:HB3	45:PA:252:ILE:HG21	1.82	0.62
45:PC:206:ASN:OD1	47:PD:501:GTP:N2	2.32	0.62
46:PF:1:MET:HG2	46:PF:2:ARG:H	1.65	0.62
46:PL:68:LEU:HB3	46:PL:96:GLY:HA2	1.80	0.62
46:RD:309:ARG:NH2	46:RD:426:GLN:O	2.22	0.62
46:RL:19:LYS:O	46:RL:22:GLU:HG3	1.99	0.62
46:SD:221:THR:HG23	46:SD:224:ASP:H	1.65	0.62
46:SH:21:TRP:CZ3	46:SH:61:PRO:HB3	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TF:156:ARG:HG3	46:TF:195:ASN:HB3	1.80	0.62
46:TF:322:SER:HB3	45:TG:221:ARG:HG3	1.81	0.62
45:TM:348:PRO:HG2	46:TN:384:GLN:HG3	1.79	0.62
46:UD:226:ASN:HD21	49:UD:501:GDP:HN1	1.46	0.62
45:UI:248:LEU:HD13	45:UI:355:ILE:HD13	1.81	0.62
46:UN:113:ILE:HD11	46:UN:151:LEU:HB3	1.81	0.62
46:VB:200:MET:HG3	46:VB:266:PHE:HB2	1.81	0.62
46:VN:135:ILE:HG13	46:VN:152:ILE:HD11	1.80	0.62
46:WL:285:THR:N	46:WL:288:GLU:OE2	2.31	0.62
45:DC:101:ASN:HA	45:DC:144:GLY:H	1.63	0.62
2:OB:241:LEU:CD1	46:JL:227:HIS:HE1	2.13	0.62
22:1M:288:LEU:HG	39:6F:56:LEU:HD22	1.81	0.62
25:1R:418:ARG:HG3	45:EC:40:LYS:HE2	1.80	0.62
15:1X:81:ARG:NE	46:MF:276:ARG:HE	1.97	0.62
31:2I:138:VAL:H	46:FD:121:ARG:HH12	1.47	0.62
20:2K:291:GLN:HE22	46:FL:55:THR:HB	1.62	0.62
46:AB:257:LEU:HD11	46:AB:314:SER:HB3	1.80	0.62
46:AH:135:ILE:HG13	46:AH:152:ILE:HD11	1.81	0.62
45:BE:204:LEU:HD13	45:BE:231:ILE:HD12	1.82	0.62
45:CC:271:SER:HB2	45:CC:377:MET:HG2	1.80	0.62
45:CG:324:VAL:HG11	45:CG:326:LYS:HE2	1.82	0.62
46:ED:31:ASP:OD1	46:ED:35:THR:N	2.28	0.62
45:FE:244:PHE:HB2	45:FE:356:ASN:HD21	1.64	0.62
46:FJ:113:ILE:HD13	46:FJ:154:LYS:HZ2	1.64	0.62
46:GJ:31:ASP:OD1	46:GJ:35:THR:N	2.29	0.62
46:GN:139:LEU:HD22	46:GN:170:VAL:HG12	1.82	0.62
46:JD:410:GLU:OE1	46:ND:340:TYR:OH	2.16	0.62
46:JJ:63:ALA:O	46:JJ:89:ASN:ND2	2.33	0.62
45:JK:253:THR:OG1	45:JK:256:GLN:NE2	2.32	0.62
45:JM:69:ASP:HB3	45:JM:75:ILE:HD11	1.80	0.62
46:JN:235:GLY:HA3	46:JN:366:THR:HG21	1.81	0.62
45:KM:11:GLN:NE2	46:KN:245:GLN:O	2.32	0.62
46:MJ:114:ASP:OD1	46:MJ:115:SER:N	2.33	0.62
46:ML:392:LYS:HD3	46:ML:395:LEU:HD23	1.81	0.62
46:NF:12:CYS:O	46:NF:16:ILE:HG12	1.99	0.62
46:NH:207:LEU:HD12	46:NH:225:LEU:HD23	1.82	0.62
46:OJ:135:ILE:HG13	46:OJ:152:ILE:HD11	1.82	0.62
46:PH:63:ALA:O	46:PH:89:ASN:ND2	2.32	0.62
46:PL:236:VAL:HG13	46:PL:237:THR:HG23	1.81	0.62
45:PM:31:GLN:NE2	45:PM:33:ASP:OD1	2.32	0.62
45:QA:31:GLN:HG3	45:QA:37:PRO:HD3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QC:326:LYS:NZ	46:QD:220:PRO:O	2.30	0.62
45:RA:51:THR:HG21	45:RA:243:ARG:HH21	1.64	0.62
45:RG:188:ILE:HD12	45:RG:425:LEU:HD11	1.80	0.62
45:SE:284:GLU:HG2	45:SE:286:LEU:HD12	1.81	0.62
46:SH:313:ALA:HB3	46:SH:349:ILE:HG12	1.81	0.62
45:SI:277:SER:O	45:SI:281:ALA:N	2.33	0.62
45:TE:11:GLN:NE2	47:TE:501:GTP:O3A	2.33	0.62
45:TK:328:VAL:HG11	45:TK:353:VAL:HG21	1.81	0.62
45:UC:352:LYS:HZ3	46:UD:178:THR:HA	1.63	0.62
45:VE:64:ARG:NH1	45:VE:129:CYS:SG	2.73	0.62
45:VG:167:LEU:HD13	45:VG:200:VAL:HB	1.81	0.62
46:VJ:113:ILE:HD13	46:VJ:150:LEU:HD22	1.81	0.62
46:WF:68:LEU:HB3	46:WF:96:GLY:HA2	1.82	0.62
45:WG:326:LYS:NZ	46:WJ:220:PRO:O	2.24	0.62
46:WJ:88:ASP:OD1	46:WJ:89:ASN:N	2.33	0.62
46:WN:31:ASP:OD2	46:WN:33:THR:OG1	2.17	0.62
19:1J:273:TRP:HE1	46:IL:276:ARG:HH21	1.48	0.62
21:1L:524:ARG:NH1	46:BF:358:PRO:O	2.32	0.62
26:1W:118:GLY:HA2	46:LF:276:ARG:HE	1.64	0.62
15:1X:78:ASN:HA	46:MF:276:ARG:HD2	1.82	0.62
30:2H:196:SER:HB3	46:AD:40:SER:HB2	1.81	0.62
34:6R:318:TYR:HE2	46:CN:273:LEU:HA	1.64	0.62
45:AM:98:ASP:O	45:AM:105:ARG:NH1	2.32	0.62
45:BC:111:GLY:O	45:BC:115:VAL:HG13	1.98	0.62
45:BC:223:THR:HG23	45:BC:225:THR:H	1.65	0.62
46:BD:309:ARG:NH1	46:BD:343:GLU:OE1	2.33	0.62
46:BH:135:ILE:HG13	46:BH:152:ILE:HD11	1.82	0.62
45:BI:27:GLU:OE2	45:BI:361:THR:OG1	2.13	0.62
46:BN:143:THR:O	46:BN:147:MET:HG2	1.98	0.62
46:CD:67:ASP:O	46:CD:92:PHE:HA	2.00	0.62
45:CM:244:PHE:HB2	45:CM:356:ASN:HD21	1.63	0.62
45:DM:259:LEU:O	45:DM:380:ASN:ND2	2.33	0.62
46:EJ:54:ALA:HA	46:FJ:283:ALA:HB2	1.81	0.62
46:FH:292:GLN:HG2	46:FH:298:ASN:HD22	1.65	0.62
45:FK:262:TYR:HB2	45:FK:265:ILE:HG22	1.81	0.62
46:FN:48:ASN:O	46:FN:62:ARG:NH1	2.31	0.62
45:GG:298:PRO:HB3	45:GG:308:ARG:NH1	2.14	0.62
46:HB:135:ILE:HG13	46:HB:152:ILE:HD11	1.81	0.62
45:IA:251:ASP:OD1	45:IA:252:ILE:N	2.33	0.62
46:IF:316:LEU:HD13	46:IF:352:SER:HB2	1.82	0.62
45:JE:222:PRO:HD2	46:JF:324:LYS:HE3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KA:127:ASP:OD1	45:KA:128:ASN:N	2.33	0.62
46:KD:51:TYR:HB3	46:KD:59:TYR:HB3	1.80	0.62
45:KE:406:HIS:HA	45:KE:409:VAL:HG12	1.82	0.62
46:KF:257:LEU:HD21	46:KF:314:SER:HB2	1.81	0.62
46:KH:62:ARG:NH1	46:KH:127:CYS:SG	2.72	0.62
46:KJ:256:ASN:HD22	46:KJ:350:LYS:HD2	1.63	0.62
46:KL:257:LEU:HD21	46:KL:314:SER:HB2	1.82	0.62
45:LI:251:ASP:H	45:LI:254:GLU:HB2	1.65	0.62
46:LL:316:LEU:HD13	46:LL:352:SER:HB2	1.81	0.62
46:MB:133:PHE:HB2	46:MB:164:MET:SD	2.40	0.62
45:MG:241:SER:OG	45:MG:250:VAL:O	2.18	0.62
45:MK:116:ASP:OD1	45:MK:117:LEU:N	2.31	0.62
45:NM:11:GLN:HG2	45:NM:15:GLN:HE22	1.65	0.62
45:OE:155:GLU:OE2	45:OE:156:ARG:NH1	2.31	0.62
45:QA:226:ASN:ND2	45:QA:367:ASP:OD2	2.32	0.62
45:QG:133:GLN:HB3	45:QG:252:ILE:HD11	1.81	0.62
45:RC:274:PRO:HD3	45:RC:291:ILE:HD11	1.81	0.62
45:RG:404:PHE:HD1	45:RG:407:TRP:HZ3	1.48	0.62
46:RJ:19:LYS:O	46:RJ:22:GLU:HG3	2.00	0.62
46:RJ:54:ALA:HA	46:SJ:283:ALA:HB2	1.80	0.62
46:RJ:63:ALA:O	46:RJ:89:ASN:ND2	2.31	0.62
46:SF:148:GLY:O	46:SF:152:ILE:HG12	1.99	0.62
45:SM:164:LYS:O	45:SM:166:LYS:NZ	2.33	0.62
46:SN:299:MET:HG3	46:SN:301:CYS:H	1.63	0.62
45:TC:155:GLU:OE2	45:TC:193:SER:OG	2.18	0.62
45:TM:101:ASN:HA	45:TM:144:GLY:H	1.64	0.62
46:UF:73:MET:HA	46:UF:76:VAL:HG12	1.82	0.62
45:UM:328:VAL:HG11	45:UM:353:VAL:HG21	1.80	0.62
46:VN:190:HIS:CD2	46:VN:411:ALA:HA	2.35	0.62
46:WB:284:LEU:HD11	46:WB:362:LYS:HB3	1.82	0.62
45:WI:406:HIS:HA	45:WI:409:VAL:HG12	1.81	0.62
46:WJ:45:GLU:OE2	46:WJ:46:ARG:NH2	2.33	0.62
46:WN:100:ASN:ND2	46:WN:401:GLU:OE1	2.31	0.62
7:1G:103:THR:HG21	46:JB:243:PRO:HB2	1.81	0.62
11:1S:46:TRP:CH2	45:WC:89:PRO:HD3	2.35	0.62
35:4S:81:HIS:NE2	45:WA:164:LYS:HG2	2.15	0.62
34:5R:321:MET:HB2	46:CJ:279:GLN:HE22	1.64	0.62
45:BG:76:ASP:OD2	46:BH:46:ARG:NH2	2.33	0.62
46:CB:309:ARG:NH1	46:CB:343:GLU:OE1	2.31	0.62
45:CI:128:ASN:OD1	45:DI:285:GLN:NE2	2.33	0.62
46:DD:12:CYS:O	46:DD:16:ILE:HG12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DE:251:ASP:OD1	45:DE:252:ILE:N	2.33	0.62
46:DN:178:THR:HB	46:DN:181:GLU:HG3	1.82	0.62
45:EC:370:LYS:HA	45:EC:370:LYS:HE3	1.81	0.62
46:ED:2:ARG:NH2	45:EE:73:THR:OG1	2.33	0.62
46:EH:213:ARG:HE	46:EH:297:LYS:HZ2	1.48	0.62
46:EL:309:ARG:NH2	46:EL:426:GLN:O	2.31	0.62
45:FI:81:GLY:O	45:FI:84:ARG:NH1	2.33	0.62
46:FN:178:THR:HB	46:FN:181:GLU:HG3	1.81	0.62
45:HC:164:LYS:O	45:HC:166:LYS:NZ	2.33	0.62
45:HK:244:PHE:HB2	45:HK:356:ASN:HD21	1.65	0.62
46:HN:286:VAL:HA	46:HN:289:LEU:HD12	1.82	0.62
45:KE:109:THR:O	45:KE:112:LYS:NZ	2.32	0.62
45:KK:46:ASP:O	45:KK:50:ASN:ND2	2.33	0.62
45:ME:64:ARG:NH1	45:ME:129:CYS:SG	2.73	0.62
45:MM:108:TYR:O	45:MM:112:LYS:NZ	2.27	0.62
46:NH:96:GLY:O	46:NH:103:LYS:NZ	2.33	0.62
45:OA:99:ALA:HB3	45:OA:145:THR:HB	1.82	0.62
45:PI:352:LYS:HZ1	46:PL:179:VAL:HG22	1.64	0.62
46:PL:2:ARG:H	46:PL:129:CYS:HB3	1.64	0.62
46:QH:49:VAL:HG23	46:QH:50:TYR:CD2	2.35	0.62
46:QL:285:THR:HG23	46:QL:287:PRO:HD2	1.80	0.62
46:RF:164:MET:HB2	46:RF:197:ASP:H	1.64	0.62
46:RL:324:LYS:HG2	46:RL:328:GLU:OE2	1.99	0.62
46:SB:46:ARG:NH2	45:SC:76:ASP:OD2	2.32	0.62
45:SG:9:VAL:HG12	45:SG:68:LEU:HB2	1.81	0.62
46:SN:86:ARG:HE	46:SN:87:PRO:HD2	1.64	0.62
46:TH:100:ASN:ND2	46:TH:401:GLU:OE1	2.32	0.62
46:UF:198:GLU:HG2	46:UF:266:PHE:HE2	1.65	0.62
45:VE:15:GLN:OE1	45:VE:228:ASN:ND2	2.32	0.62
45:WA:241:SER:OG	45:WA:250:VAL:O	2.17	0.62
46:WD:67:ASP:OD1	46:WD:68:LEU:N	2.32	0.62
45:WG:239:THR:HG23	45:WG:243:ARG:HE	1.65	0.62
12:3T:97:ARG:HH12	45:MK:416:GLY:HA3	1.63	0.62
35:4S:110:ARG:HA	35:4S:157:ILE:HD11	1.82	0.62
15:4X:81:ARG:HD3	34:5R:15:HIS:CE1	2.35	0.62
36:5C:43:CYS:SG	46:KJ:391:ARG:NE	2.73	0.62
36:5D:71:SER:O	46:NN:359:LYS:NZ	2.29	0.62
45:AC:161:TYR:HB3	45:AC:164:LYS:HG2	1.80	0.62
45:AG:76:ASP:OD1	45:AG:79:ARG:NH2	2.33	0.62
46:AJ:97:ALA:HA	46:AJ:103:LYS:HE2	1.82	0.62
46:AL:150:LEU:HD23	46:AL:154:LYS:HZ2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BE:250:VAL:HG13	45:BE:254:GLU:HB2	1.82	0.62
45:DK:276:ILE:HD11	45:DK:280:LYS:HG3	1.82	0.62
46:DL:16:ILE:HD12	46:DL:229:VAL:HG21	1.82	0.62
45:DM:326:LYS:HB3	46:DN:208:TYR:HE1	1.63	0.62
46:FL:268:ILE:HG22	46:FL:368:VAL:HG22	1.81	0.62
45:GA:97:GLU:OE1	46:GB:131:GLN:NE2	2.31	0.62
45:GE:326:LYS:N	45:GE:326:LYS:HE2	2.15	0.62
45:GI:164:LYS:O	45:GI:166:LYS:NZ	2.33	0.62
45:HI:64:ARG:NH1	45:HI:129:CYS:SG	2.73	0.62
45:IG:251:ASP:OD1	45:IG:252:ILE:N	2.31	0.62
46:IH:316:LEU:HD13	46:IH:352:SER:HB2	1.81	0.62
46:JD:54:ALA:HA	46:KD:283:ALA:HB2	1.82	0.62
46:KF:107:THR:OG1	46:KF:108:GLU:OE1	2.17	0.62
46:KJ:1:MET:HB2	46:KJ:48:ASN:HD21	1.65	0.62
46:KL:221:THR:HG23	46:KL:223:GLY:H	1.65	0.62
46:LH:64:ILE:HD13	46:LH:119:VAL:HG23	1.82	0.62
46:MB:276:ARG:HA	46:MB:279:GLN:HE21	1.65	0.62
45:MI:371:VAL:HG12	45:MI:373:ARG:H	1.65	0.62
45:NA:392:ASP:OD1	45:NA:422:ARG:NH2	2.33	0.62
45:OM:248:LEU:HD13	45:OM:355:ILE:HD12	1.82	0.62
45:PM:120:ASP:HA	45:PM:123:ARG:HH21	1.65	0.62
46:QD:114:ASP:OD1	46:QD:115:SER:N	2.33	0.62
45:QI:284:GLU:HG3	45:QI:286:LEU:HD22	1.81	0.62
45:RC:402:ARG:HD3	45:RC:402:ARG:O	2.00	0.62
45:SA:48:ALA:HB1	45:SA:243:ARG:HB2	1.82	0.62
45:SC:77:GLU:HA	45:SC:80:THR:HG22	1.82	0.62
45:SE:338:LYS:HG2	45:SE:340:THR:HG22	1.82	0.62
46:TB:238:CYS:HA	46:TB:241:ARG:CZ	2.30	0.62
45:TE:60:LYS:NZ	45:UE:282:TYR:O	2.33	0.62
46:UJ:347:ASN:ND2	45:UK:176:GLN:O	2.33	0.62
45:UM:121:ARG:HH21	45:UM:125:LEU:HD21	1.63	0.62
45:VA:3:GLU:HG2	45:VA:132:LEU:HA	1.81	0.62
45:VA:120:ASP:OD1	45:VA:123:ARG:NH2	2.26	0.62
46:VL:207:LEU:HD13	46:VL:210:ILE:HD11	1.82	0.62
46:WB:164:MET:HB2	46:WB:197:ASP:H	1.63	0.62
46:WH:74:ASP:OD1	46:WH:77:ARG:NH1	2.32	0.62
46:WH:164:MET:HB3	46:WH:197:ASP:H	1.64	0.62
4:OD:85:VAL:HG12	46:EB:355:ASP:HB2	1.82	0.61
23:2O:148:MET:SD	45:VK:370:LYS:NZ	2.63	0.61
10:6Q:93:VAL:HG21	10:6Q:136:LEU:HD11	1.80	0.61
45:BC:209:ILE:HD11	45:BC:230:LEU:HD23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BF:68:LEU:HD13	46:BF:93:GLY:HA3	1.82	0.61
46:BH:403:MET:HE3	46:BH:403:MET:HA	1.82	0.61
46:CB:107:THR:OG1	46:CB:108:GLU:OE1	2.16	0.61
45:CK:324:VAL:HG12	45:CK:326:LYS:HG2	1.82	0.61
45:DK:422:ARG:O	45:DK:422:ARG:NH1	2.33	0.61
46:DN:100:ASN:ND2	46:DN:401:GLU:OE1	2.33	0.61
45:FG:11:GLN:NE2	46:FH:247:ASN:OD1	2.33	0.61
46:FL:207:LEU:HB3	46:FL:225:LEU:HD22	1.82	0.61
46:GF:222:TYR:O	46:GF:226:ASN:ND2	2.28	0.61
46:GH:272:PRO:HG3	46:GH:284:LEU:HD11	1.82	0.61
45:HA:210:TYR:OH	46:HB:323:THR:OG1	2.18	0.61
46:HN:32:PRO:O	46:HN:83:GLN:NE2	2.33	0.61
46:IN:215:LEU:HB3	46:IN:217:LEU:HD23	1.82	0.61
46:IN:273:LEU:H	46:IN:292:GLN:HE22	1.46	0.61
46:JB:276:ARG:NH2	46:JB:279:GLN:HE22	1.97	0.61
45:JC:339:ARG:HH11	45:JC:339:ARG:HA	1.64	0.61
46:JN:267:MET:HE2	46:JN:299:MET:HB3	1.81	0.61
45:KG:265:ILE:HG22	45:KG:432:TYR:HE1	1.64	0.61
46:MF:128:ASP:OD1	46:MF:129:CYS:N	2.33	0.61
46:NB:200:MET:SD	46:NB:268:ILE:HD11	2.41	0.61
45:NG:287:SER:N	45:NG:290:GLU:OE2	2.32	0.61
46:NJ:113:ILE:HG12	46:NJ:117:LEU:HD23	1.80	0.61
46:NL:125:GLU:OE2	46:OL:336:LYS:NZ	2.33	0.61
45:OA:75:ILE:HD11	45:OA:92:LEU:HB3	1.82	0.61
45:OA:387:VAL:HA	45:OA:390:ARG:HG2	1.81	0.61
45:OE:256:GLN:HG2	46:OH:397:TRP:CH2	2.33	0.61
46:OF:267:MET:HG3	46:OF:299:MET:HE2	1.82	0.61
46:OH:252:LYS:O	46:OH:256:ASN:ND2	2.33	0.61
45:OM:207:GLU:HG3	45:OM:304:LYS:HE3	1.80	0.61
46:PN:73:MET:HB3	46:PN:77:ARG:HH21	1.65	0.61
46:QD:15:GLN:NE2	49:QD:501:GDP:N7	2.48	0.61
45:QE:88:HIS:CE1	45:QE:90:GLU:HB2	2.35	0.61
45:RE:288:VAL:HA	45:RE:291:ILE:HG12	1.81	0.61
45:SG:169:PHE:HB3	45:SG:204:LEU:HD11	1.81	0.61
45:SK:286:LEU:O	45:SK:373:ARG:NH1	2.27	0.61
46:SL:121:ARG:NH2	46:SL:158:GLU:OE2	2.33	0.61
46:TJ:235:GLY:HA3	46:TJ:366:THR:HG21	1.82	0.61
46:UB:247:ASN:O	46:UB:252:LYS:NZ	2.31	0.61
45:VA:174:SER:OG	45:VA:206:ASN:OD1	2.16	0.61
46:VB:309:ARG:NH1	46:VB:343:GLU:OE1	2.32	0.61
46:VF:148:GLY:O	46:VF:152:ILE:HG12	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VH:222:TYR:O	46:VH:226:ASN:ND2	2.24	0.61
45:VI:206:ASN:HB3	45:VI:210:TYR:HE2	1.64	0.61
46:WN:148:GLY:O	46:WN:152:ILE:HG12	2.01	0.61
1:0A:3:GLN:NE2	34:7R:6:PRO:O	2.32	0.61
31:2I:40:LYS:HG2	45:GG:214:ARG:HH21	1.65	0.61
39:6F:138:TYR:HD2	39:6F:141:THR:H	1.48	0.61
41:6H:289:LYS:NZ	46:FH:276:ARG:HD2	2.15	0.61
45:AE:326:LYS:NZ	46:AH:218:THR:O	2.32	0.61
46:AL:310:TYR:HD2	46:AL:371:SER:HB3	1.64	0.61
45:BA:116:ASP:OD1	45:BA:117:LEU:N	2.33	0.61
45:BA:256:GLN:HB3	46:BD:397:TRP:CZ3	2.35	0.61
45:BG:101:ASN:HA	45:BG:144:GLY:H	1.64	0.61
45:BI:371:VAL:HG12	45:BI:373:ARG:H	1.64	0.61
46:CB:19:LYS:NZ	46:CB:223:GLY:O	2.32	0.61
46:CD:70:PRO:O	46:CD:74:ASP:HB2	2.00	0.61
45:CK:331:SER:O	45:CK:335:ILE:HD12	2.00	0.61
45:CM:101:ASN:HA	45:CM:144:GLY:H	1.65	0.61
45:DG:9:VAL:HG12	45:DG:68:LEU:HB2	1.82	0.61
45:FI:329:ASN:ND2	46:FL:175:VAL:HG12	2.11	0.61
45:FK:328:VAL:HG11	45:FK:353:VAL:HG21	1.82	0.61
45:GE:2:ARG:HH21	46:GH:70:PRO:HD2	1.64	0.61
45:GM:226:ASN:ND2	45:GM:367:ASP:OD2	2.33	0.61
45:HI:298:PRO:HG3	45:HI:308:ARG:HH22	1.65	0.61
46:IB:31:ASP:OD2	46:IB:37:HIS:ND1	2.33	0.61
46:JL:309:ARG:NH2	46:JL:426:GLN:O	2.33	0.61
46:MF:31:ASP:OD1	46:MF:35:THR:N	2.31	0.61
45:MG:244:PHE:HB2	45:MG:356:ASN:HD21	1.65	0.61
45:NG:399:TYR:OH	45:NG:415:GLU:OE2	2.18	0.61
46:OB:325:GLU:O	46:OB:329:GLN:HG3	2.00	0.61
46:OL:135:ILE:HB	46:OL:166:THR:HG22	1.82	0.61
45:OM:265:ILE:HG12	45:OM:432:TYR:HE1	1.64	0.61
45:QM:141:VAL:HG11	45:QM:172:TYR:HD1	1.64	0.61
46:RL:55:THR:HG23	46:SL:283:ALA:HA	1.82	0.61
46:SL:154:LYS:HE3	46:SL:154:LYS:HA	1.83	0.61
46:TJ:131:GLN:OE1	46:TJ:251:ARG:NH2	2.32	0.61
46:TJ:321:MET:HB2	45:TK:221:ARG:HH22	1.66	0.61
46:TL:325:GLU:H	45:TM:221:ARG:NH2	1.98	0.61
46:UB:375:GLN:HG3	46:UB:423:GLN:CD	2.20	0.61
45:VC:60:LYS:NZ	45:VC:85:GLN:O	2.32	0.61
45:VK:88:HIS:HB3	45:VK:91:GLN:HG2	1.82	0.61
46:VL:54:ALA:HB3	46:VL:58:ARG:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WH:139:LEU:HD12	46:WH:170:VAL:HG12	1.82	0.61
46:WJ:31:ASP:OD1	46:WJ:35:THR:N	2.33	0.61
46:WL:97:ALA:HA	46:WL:103:LYS:HD3	1.81	0.61
24:1P:226:HIS:CE1	45:TG:279:GLU:HA	2.34	0.61
40:6G:165:THR:HA	46:VH:213:ARG:HH12	1.65	0.61
40:6G:263:SER:O	45:VA:339:ARG:NH2	2.31	0.61
40:6G:263:SER:N	45:VA:337:THR:O	2.33	0.61
45:AC:11:GLN:NE2	46:AD:247:ASN:OD1	2.33	0.61
45:AG:292:THR:HG21	45:AG:331:SER:HB3	1.82	0.61
45:AK:292:THR:HG21	45:AK:331:SER:HB3	1.81	0.61
45:AM:102:ASN:ND2	45:AM:407:TRP:O	2.33	0.61
46:BH:86:ARG:NE	46:BH:86:ARG:HA	2.14	0.61
45:BM:222:PRO:O	46:BN:322:SER:OG	2.17	0.61
46:CB:11:GLN:HA	46:CB:72:THR:HG21	1.82	0.61
46:CF:11:GLN:NE2	49:CF:501:GDP:O3B	2.28	0.61
46:CJ:87:PRO:HA	46:CJ:90:PHE:HD2	1.64	0.61
45:DK:287:SER:N	45:DK:290:GLU:OE2	2.31	0.61
45:EA:188:ILE:HD12	45:EA:425:LEU:HD11	1.82	0.61
45:FC:284:GLU:HG2	45:FC:286:LEU:HD22	1.83	0.61
46:FD:290:THR:HA	46:FD:293:MET:HG2	1.82	0.61
46:FJ:139:LEU:HD22	46:FJ:170:VAL:HG12	1.81	0.61
46:GB:222:TYR:O	46:GB:226:ASN:ND2	2.29	0.61
46:GJ:114:ASP:OD1	46:GJ:115:SER:N	2.33	0.61
46:GL:226:ASN:HD21	49:GL:502:GDP:HN1	1.47	0.61
46:HJ:273:LEU:H	46:HJ:292:GLN:HE22	1.47	0.61
45:IE:22:GLU:HG3	45:IE:83:TYR:CE2	2.36	0.61
45:IE:22:GLU:HG3	45:IE:83:TYR:HE2	1.64	0.61
46:IL:179:VAL:HG23	46:IL:180:VAL:HG23	1.83	0.61
46:JN:318:ARG:HE	46:JN:358:PRO:HG3	1.65	0.61
45:KC:151:SER:O	45:KC:155:GLU:HG2	2.00	0.61
46:KF:128:ASP:OD1	46:KF:129:CYS:N	2.31	0.61
45:KK:46:ASP:OD1	45:KK:47:ASP:N	2.31	0.61
46:LN:392:LYS:HD2	46:LN:395:LEU:HD22	1.82	0.61
45:ME:11:GLN:NE2	46:MF:245:GLN:O	2.33	0.61
45:MG:68:LEU:HD23	45:MG:93:ILE:HB	1.83	0.61
45:OM:210:TYR:CD1	46:ON:324:LYS:HB3	2.36	0.61
45:OM:222:PRO:HG2	46:ON:324:LYS:HE2	1.83	0.61
46:PB:73:MET:HA	46:PB:76:VAL:HG12	1.81	0.61
46:QF:271:ALA:HB3	46:QF:365:VAL:HB	1.82	0.61
45:QM:15:GLN:NE2	47:QM:501:GTP:O6	2.33	0.61
45:RM:72:PRO:HA	45:RM:75:ILE:HD13	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SA:244:PHE:HB2	45:SA:356:ASN:HD21	1.65	0.61
46:SB:313:ALA:HB1	46:SB:367:PHE:HE1	1.65	0.61
46:SD:114:ASP:OD1	46:SD:115:SER:N	2.33	0.61
45:TE:294:SER:HA	45:TE:297:GLU:HG2	1.82	0.61
45:TI:288:VAL:HG11	45:TI:327:ASP:HB3	1.82	0.61
46:TJ:178:THR:HB	46:TJ:181:GLU:HG3	1.82	0.61
45:TK:89:PRO:HD2	45:UK:280:LYS:NZ	2.15	0.61
46:TL:135:ILE:HG13	46:TL:152:ILE:HD11	1.81	0.61
46:TN:67:ASP:O	46:TN:92:PHE:HA	2.00	0.61
45:VA:292:THR:HG21	45:VA:331:SER:HB3	1.81	0.61
45:VA:387:VAL:HA	45:VA:390:ARG:HE	1.65	0.61
46:VB:86:ARG:NH1	46:VB:88:ASP:HB3	2.15	0.61
46:VH:309:ARG:NH1	46:VH:343:GLU:OE1	2.32	0.61
46:VJ:222:TYR:O	46:VJ:226:ASN:ND2	2.31	0.61
46:VJ:399:THR:HA	46:VJ:403:MET:HB3	1.81	0.61
46:WD:105:HIS:CE1	46:WD:150:LEU:HD12	2.35	0.61
45:CE:175:PRO:HG3	45:CE:390:ARG:HH12	1.65	0.61
21:1L:780:GLN:O	46:BD:320:ARG:NH2	2.34	0.61
12:1T:147:PHE:CD1	46:MF:106:TYR:HB3	2.35	0.61
25:3R:25:VAL:HG12	45:MK:46:ASP:H	1.63	0.61
14:3V:22:ARG:HH22	45:MA:422:ARG:HB3	1.65	0.61
14:3V:33:PRO:HB3	45:MA:304:LYS:HD2	1.82	0.61
40:6G:105:LYS:NZ	45:VI:176:GLN:HG2	2.16	0.61
34:7R:133:LYS:HA	34:7R:133:LYS:HE3	1.82	0.61
34:7R:302:LEU:H	46:CB:77:ARG:HH22	1.47	0.61
46:AB:91:VAL:HG21	46:AB:116:VAL:HB	1.82	0.61
45:AC:101:ASN:HA	45:AC:144:GLY:H	1.65	0.61
46:AJ:372:THR:HA	46:AJ:422:TYR:HE2	1.64	0.61
45:BM:214:ARG:NH1	45:BM:214:ARG:O	2.31	0.61
45:CC:239:THR:O	45:CC:243:ARG:NH1	2.33	0.61
46:CF:103:LYS:NZ	46:CF:401:GLU:OE2	2.29	0.61
46:CJ:67:ASP:OD1	46:CJ:68:LEU:N	2.34	0.61
46:CJ:248:SER:HA	46:CJ:252:LYS:HG3	1.82	0.61
45:CM:37:PRO:HB2	45:CM:40:LYS:HB2	1.82	0.61
45:CM:214:ARG:NH1	45:CM:214:ARG:HA	2.16	0.61
46:DB:200:MET:HE2	46:DB:266:PHE:HB2	1.82	0.61
46:DD:48:ASN:O	46:DD:62:ARG:NH1	2.32	0.61
46:DD:247:ASN:HD21	45:DE:73:THR:HG21	1.66	0.61
46:DD:285:THR:HG22	46:DD:287:PRO:HD2	1.81	0.61
45:EC:288:VAL:O	45:EC:292:THR:HG23	2.01	0.61
45:EC:363:VAL:HG13	45:EC:366:GLY:HA3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:318:ARG:HG2	46:ED:357:PRO:HA	1.82	0.61
46:EH:107:THR:OG1	46:EH:108:GLU:OE1	2.16	0.61
45:FC:385:ALA:HB2	45:FC:432:TYR:HD2	1.65	0.61
46:FL:310:TYR:HD2	46:FL:371:SER:HB2	1.65	0.61
46:FN:173:PRO:HG2	46:FN:380:ARG:HE	1.65	0.61
46:FN:309:ARG:NH2	46:FN:426:GLN:O	2.33	0.61
46:GF:215:LEU:HD21	46:GF:273:LEU:HD12	1.82	0.61
45:GG:101:ASN:HA	45:GG:144:GLY:H	1.65	0.61
46:GL:55:THR:HG21	46:HL:284:LEU:HD13	1.82	0.61
45:HE:288:VAL:HG11	45:HE:327:ASP:HB3	1.82	0.61
45:HI:284:GLU:HG2	45:HI:286:LEU:HD22	1.83	0.61
45:IE:11:GLN:HB2	45:IE:74:VAL:HG11	1.82	0.61
46:IH:58:ARG:HH22	45:JE:283:HIS:CE1	2.17	0.61
46:IJ:8:GLN:HE22	46:IJ:17:GLY:CA	2.13	0.61
45:IK:328:VAL:HG11	45:IK:353:VAL:HG21	1.83	0.61
46:IN:344:TRP:HB3	46:IN:430:ALA:HB2	1.81	0.61
46:KD:208:TYR:CE1	46:KD:225:LEU:HD11	2.35	0.61
45:MA:259:LEU:HD21	45:MA:316:SER:HB2	1.82	0.61
46:ND:263:LEU:HD22	46:ND:422:TYR:HD1	1.64	0.61
45:NK:97:GLU:HB2	46:NL:2:ARG:NH2	2.15	0.61
45:OG:108:TYR:HE2	45:OG:413:MET:HG2	1.66	0.61
45:OK:292:THR:HG21	45:OK:331:SER:HB3	1.82	0.61
45:OK:333:ALA:O	45:OK:337:THR:HG23	2.01	0.61
45:QG:352:LYS:HZ1	46:QH:178:THR:HG23	1.64	0.61
45:QK:284:GLU:HG2	45:QK:286:LEU:HD22	1.82	0.61
46:RH:11:GLN:OE1	46:RH:15:GLN:NE2	2.34	0.61
46:RH:331:LEU:HD11	45:RI:177:VAL:HG22	1.82	0.61
45:RM:108:TYR:HE2	45:RM:413:MET:HG2	1.63	0.61
45:SC:241:SER:OG	45:SC:250:VAL:O	2.19	0.61
45:SI:371:VAL:HG12	45:SI:373:ARG:H	1.64	0.61
46:SL:32:PRO:HG3	46:SL:81:PHE:CE1	2.36	0.61
46:SL:148:GLY:O	46:SL:152:ILE:HD12	1.99	0.61
46:TH:313:ALA:HB1	46:TH:367:PHE:HE1	1.65	0.61
46:TJ:77:ARG:NH1	46:TJ:82:GLY:O	2.32	0.61
45:UC:7:ILE:HD13	45:UC:153:LEU:HD21	1.83	0.61
45:UE:326:LYS:HE2	46:UF:208:TYR:HD1	1.63	0.61
45:UK:285:GLN:HE22	45:UK:287:SER:HB2	1.65	0.61
45:UM:98:ASP:OD1	45:UM:145:THR:OG1	2.17	0.61
46:UN:87:PRO:HD2	46:VN:281:TYR:HE1	1.64	0.61
45:VC:31:GLN:NE2	45:VC:35:GLN:O	2.33	0.61
46:VL:16:ILE:HD12	46:VL:229:VAL:HG11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:306:ASP:OD2	45:WA:308:ARG:NH2	2.33	0.61
46:WL:260:PHE:HB2	46:WL:263:LEU:HD13	1.83	0.61
2:0B:241:LEU:HD11	46:JL:227:HIS:CE1	2.35	0.61
14:0V:94:GLY:HA2	46:LN:262:ARG:HG2	1.81	0.61
7:1G:128:LEU:HD11	46:JB:39:ASP:HB3	1.81	0.61
21:1L:67:ARG:HH21	45:BI:365:GLY:H	1.47	0.61
24:1P:269:ALA:HA	45:TE:372:MET:HE3	1.82	0.61
28:2F:74:SER:OG	46:HF:291:GLN:NE2	2.23	0.61
11:2S:97:ARG:HH22	46:MJ:262:ARG:NH1	1.98	0.61
30:4H:169:THR:HB	34:5R:85:TRP:HE1	1.64	0.61
34:5R:78:ILE:HG23	34:5R:86:LEU:HD21	1.82	0.61
34:6R:317:HIS:O	46:CN:227:HIS:NE2	2.33	0.61
45:BC:27:GLU:OE2	45:BC:361:THR:OG1	2.17	0.61
45:BG:292:THR:HG21	45:BG:331:SER:HB3	1.81	0.61
46:CF:253:LEU:HD12	46:CF:257:LEU:HD13	1.82	0.61
45:CI:259:LEU:O	45:CI:380:ASN:ND2	2.32	0.61
46:CJ:396:HIS:HA	46:CJ:399:THR:HG22	1.81	0.61
45:CK:75:ILE:HG23	45:CK:92:LEU:HD12	1.82	0.61
46:CL:101:TRP:HD1	46:CL:145:SER:HG	1.48	0.61
46:CL:345:ILE:HA	45:CM:398:MET:HE1	1.82	0.61
45:CM:70:LEU:HD13	45:CM:95:GLY:HA3	1.81	0.61
45:CM:90:GLU:OE2	45:CM:124:LYS:NZ	2.33	0.61
45:DE:210:TYR:CE2	45:DE:227:LEU:HD11	2.36	0.61
46:ED:371:SER:O	46:ED:422:TYR:OH	2.18	0.61
46:EF:99:ASN:HA	46:EF:142:GLY:H	1.64	0.61
46:EL:2:ARG:NH2	45:EM:71:GLU:OE1	2.32	0.61
45:GG:282:TYR:OH	45:GG:370:LYS:O	2.17	0.61
46:HF:73:MET:HA	46:HF:76:VAL:HG12	1.82	0.61
46:HN:16:ILE:HD12	46:HN:229:VAL:HG21	1.81	0.61
45:IK:100:ALA:HA	46:IL:252:LYS:HG2	1.82	0.61
46:JB:114:ASP:OD1	46:JB:115:SER:N	2.33	0.61
45:JI:72:PRO:HD2	46:JJ:2:ARG:NH2	2.15	0.61
46:KH:313:ALA:HB3	46:KH:349:ILE:HG22	1.82	0.61
45:LG:11:GLN:NE2	46:LH:245:GLN:O	2.33	0.61
46:MB:350:LYS:NZ	46:MB:352:SER:OG	2.33	0.61
45:MC:27:GLU:OE1	45:MC:243:ARG:NH1	2.25	0.61
45:NM:7:ILE:HB	45:NM:137:VAL:HG12	1.82	0.61
46:OH:316:LEU:HD13	46:OH:352:SER:HB2	1.82	0.61
46:OJ:252:LYS:O	46:OJ:256:ASN:ND2	2.33	0.61
45:OM:8:HIS:HB2	45:OM:67:PHE:HD1	1.66	0.61
45:PC:329:ASN:HA	45:PC:332:ILE:HG22	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:107:THR:OG1	46:QB:108:GLU:OE1	2.16	0.61
46:QD:207:LEU:HB3	46:QD:225:LEU:HD22	1.82	0.61
45:QK:55:GLU:O	45:RK:285:GLN:NE2	2.23	0.61
46:RJ:371:SER:O	46:RJ:422:TYR:OH	2.16	0.61
45:SK:192:HIS:NE2	45:SK:424:ASP:OD2	2.33	0.61
46:SL:310:TYR:HA	46:SL:371:SER:HA	1.81	0.61
46:SL:334:GLN:HA	46:SL:341:PHE:HE2	1.65	0.61
45:TC:210:TYR:HE1	45:TC:227:LEU:HD11	1.66	0.61
45:TG:116:ASP:OD1	45:TG:117:LEU:N	2.34	0.61
45:TI:72:PRO:HA	45:TI:75:ILE:HD13	1.81	0.61
46:TL:55:THR:HG23	46:UL:283:ALA:HA	1.82	0.61
45:UC:352:LYS:HZ3	46:UD:179:VAL:H	1.48	0.61
46:UD:322:SER:OG	45:UE:221:ARG:NH1	2.33	0.61
46:UH:46:ARG:NH2	45:UI:76:ASP:OD2	2.33	0.61
45:UM:89:PRO:HD2	45:VK:280:LYS:CE	2.30	0.61
46:VB:317:PHE:HB2	46:VB:353:ILE:HG13	1.82	0.61
46:VD:143:THR:OG1	49:VD:501:GDP:O1B	2.19	0.61
47:WA:501:GTP:O1G	46:WB:252:LYS:NZ	2.33	0.61
45:WI:242:LEU:HD11	45:WI:252:ILE:HG12	1.80	0.61
15:2X:81:ARG:HD2	46:MJ:276:ARG:HD3	1.80	0.61
31:3I:220:LYS:NZ	46:GL:336:LYS:HD3	2.16	0.61
37:5F:13:ASN:HD21	37:5F:23:ASP:HB2	1.65	0.61
34:5R:143:VAL:HG13	46:AL:78:ALA:HB2	1.81	0.61
46:AH:257:LEU:HD11	46:AH:314:SER:HB3	1.83	0.61
46:AN:31:ASP:OD1	46:AN:35:THR:N	2.29	0.61
45:BA:221:ARG:CZ	46:BB:325:GLU:HB2	2.30	0.61
46:BB:372:THR:HA	46:BB:422:TYR:HE2	1.66	0.61
46:BD:297:LYS:HA	46:BD:297:LYS:HE3	1.82	0.61
46:BN:61:PRO:HD3	46:BN:84:LEU:HD12	1.83	0.61
46:DL:350:LYS:NZ	45:DM:181:VAL:HG22	2.16	0.61
46:FD:100:ASN:HB3	46:FD:103:LYS:HB2	1.82	0.61
45:FE:51:THR:HG22	45:FE:52:PHE:HD1	1.65	0.61
46:FF:167:PHE:CE1	46:FF:233:MET:HG2	2.35	0.61
45:GC:292:THR:HG21	45:GC:331:SER:HB3	1.80	0.61
45:GK:2:ARG:HB2	45:GK:133:GLN:NE2	2.15	0.61
45:GK:76:ASP:OD2	46:GL:46:ARG:NH2	2.34	0.61
46:JL:86:ARG:HD2	46:JL:88:ASP:HB2	1.82	0.61
46:KB:426:GLN:NE2	46:KB:427:ASP:OD1	2.33	0.61
45:KG:11:GLN:NE2	46:KH:245:GLN:O	2.33	0.61
46:LB:10:GLY:O	46:LB:14:ASN:ND2	2.33	0.61
45:LI:11:GLN:NE2	46:LJ:245:GLN:O	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LL:257:LEU:HD21	46:LL:314:SER:HB2	1.82	0.61
46:LN:12:CYS:O	46:LN:16:ILE:HG12	2.00	0.61
46:MD:12:CYS:O	46:MD:16:ILE:HG13	2.00	0.61
46:ML:114:ASP:OD1	46:ML:115:SER:N	2.34	0.61
46:NB:91:VAL:HG21	46:NB:116:VAL:HB	1.81	0.61
45:NE:88:HIS:CE1	45:OE:280:LYS:HZ1	2.18	0.61
45:OG:192:HIS:CE1	45:OG:424:ASP:OD2	2.54	0.61
45:OK:195:LEU:HD21	45:OK:264:ARG:HE	1.65	0.61
45:PA:50:ASN:O	45:PA:64:ARG:NH2	2.33	0.61
45:PI:56:THR:HG23	45:PI:58:ALA:H	1.66	0.61
46:PJ:389:PHE:HZ	46:PJ:405:GLU:HG2	1.65	0.61
46:PL:67:ASP:O	46:PL:92:PHE:HA	2.00	0.61
45:QE:88:HIS:HB3	45:QE:91:GLN:HG2	1.82	0.61
46:RD:31:ASP:OD1	46:RD:37:HIS:ND1	2.33	0.61
45:RG:116:ASP:OD1	45:RG:117:LEU:N	2.34	0.61
46:RL:264:HIS:ND1	46:RL:264:HIS:O	2.33	0.61
45:SC:27:GLU:HB3	45:SC:361:THR:HG21	1.82	0.61
46:SD:136:THR:HG22	46:SD:167:PHE:HB2	1.82	0.61
46:SD:162:ARG:NH1	45:SE:97:GLU:OE2	2.32	0.61
46:SJ:222:TYR:HA	46:SJ:225:LEU:HG	1.83	0.61
46:SN:178:THR:HB	46:SN:181:GLU:HG3	1.82	0.61
46:TN:200:MET:HE3	46:TN:268:ILE:HG21	1.83	0.61
45:WC:286:LEU:O	45:WC:373:ARG:NH2	2.33	0.61
45:WG:211:ASP:HA	45:WG:214:ARG:HG3	1.82	0.61
45:CE:319:TYR:CE2	45:CE:328:VAL:HG22	2.36	0.61
45:DC:390:ARG:HH21	45:DC:394:LYS:HG3	1.64	0.61
20:2K:433:LEU:HG	45:GE:282:TYR:CE2	2.34	0.61
22:2M:80:PHE:HB2	45:IG:39:ASP:HB2	1.81	0.61
33:4F:71:TYR:HD1	45:II:31:GLN:HG3	1.65	0.61
37:5H:44:ARG:HH12	45:OK:285:GLN:HA	1.65	0.61
46:AH:372:THR:HA	46:AH:422:TYR:HE1	1.65	0.61
45:BE:88:HIS:HA	45:CE:283:HIS:HD1	1.66	0.61
46:CB:258:ILE:HG13	46:CB:266:PHE:HZ	1.65	0.61
45:CC:244:PHE:HB2	45:CC:356:ASN:HD21	1.66	0.61
45:CG:292:THR:HG21	45:CG:331:SER:HB3	1.82	0.61
46:CN:31:ASP:OD2	46:CN:37:HIS:ND1	2.32	0.61
46:CN:32:PRO:HG3	46:CN:81:PHE:HE1	1.65	0.61
45:DA:60:LYS:NZ	45:DA:85:GLN:O	2.31	0.61
46:EF:60:VAL:HG21	46:EF:86:ARG:HG2	1.83	0.61
45:EI:304:LYS:HD2	45:EI:304:LYS:O	2.00	0.61
45:EM:55:GLU:HG3	45:EM:57:GLY:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EM:121:ARG:NH1	45:EM:125:LEU:HD11	2.16	0.61
45:FC:71:GLU:OE2	46:FD:2:ARG:NH2	2.34	0.61
45:FE:116:ASP:OD1	45:FE:117:LEU:N	2.33	0.61
46:FF:309:ARG:NH2	46:FF:426:GLN:O	2.24	0.61
45:GA:88:HIS:HA	45:HA:283:HIS:CE1	2.35	0.61
45:HE:352:LYS:HZ2	46:HH:179:VAL:HG22	1.64	0.61
45:HK:11:GLN:NE2	46:HL:245:GLN:O	2.34	0.61
45:HM:76:ASP:HA	45:HM:79:ARG:HG2	1.82	0.61
46:IB:240:LEU:HD11	46:IB:249:ASP:HA	1.83	0.61
45:IE:226:ASN:ND2	45:IE:367:ASP:OD2	2.34	0.61
46:IH:238:CYS:SG	46:IH:241:ARG:NH2	2.74	0.61
45:JC:221:ARG:HH11	45:JC:221:ARG:HA	1.66	0.61
45:JI:338:LYS:HE3	45:JI:340:THR:HG22	1.81	0.61
46:KJ:114:ASP:OD1	46:KJ:115:SER:N	2.34	0.61
46:LF:58:ARG:NH2	46:MF:281:TYR:OH	2.34	0.61
46:LF:383:GLU:OE2	46:LF:384:GLN:NE2	2.33	0.61
45:OC:208:ALA:HA	45:OC:304:LYS:HE3	1.81	0.61
45:OC:414:GLU:OE2	45:OC:417:GLU:N	2.31	0.61
46:PD:257:LEU:HD11	46:PD:314:SER:HB2	1.82	0.61
46:PF:67:ASP:O	46:PF:92:PHE:HA	2.00	0.61
46:PN:309:ARG:H	46:PN:372:THR:HG1	1.47	0.61
45:QM:55:GLU:HG3	45:QM:57:GLY:H	1.65	0.61
46:RF:237:THR:HG23	46:RF:241:ARG:HH21	1.65	0.61
46:RN:222:TYR:O	46:RN:226:ASN:ND2	2.29	0.61
45:SA:135:PHE:HB2	45:SA:166:LYS:HG2	1.83	0.61
45:SG:367:ASP:OD1	45:SG:368:LEU:N	2.33	0.61
45:SI:247:ALA:HB3	45:SI:355:ILE:HD11	1.83	0.61
46:SJ:177:ASP:OD1	46:SJ:178:THR:N	2.34	0.61
45:SM:69:ASP:HB3	45:SM:75:ILE:HD11	1.83	0.61
46:TB:313:ALA:HB1	46:TB:367:PHE:HE1	1.65	0.61
45:TG:326:LYS:HD3	46:TH:220:PRO:HD2	1.83	0.61
46:TL:244:GLY:HA3	46:TL:354:CYS:HA	1.83	0.61
45:TM:274:PRO:HG3	45:TM:286:LEU:HD11	1.83	0.61
46:TN:222:TYR:O	46:TN:226:ASN:ND2	2.28	0.61
45:UA:226:ASN:ND2	45:UA:367:ASP:OD2	2.34	0.61
46:UL:190:HIS:ND1	46:UL:191:GLN:OE1	2.23	0.61
46:VB:222:TYR:O	46:VB:226:ASN:ND2	2.29	0.61
45:VC:406:HIS:HA	45:VC:409:VAL:HG12	1.82	0.61
46:VF:158:GLU:HG3	46:VF:159:TYR:CD1	2.35	0.61
45:WC:51:THR:HG23	45:WC:52:PHE:HD2	1.66	0.61
45:WC:399:TYR:O	45:WC:402:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3A:17:GLN:NE2	34:6R:46:GLU:O	2.33	0.61
36:5C:156:VAL:HG12	36:5C:158:ASN:H	1.66	0.61
36:5D:94:MET:H	45:KM:430:LYS:NZ	1.98	0.61
40:6G:281:THR:HG22	40:6G:284:LYS:HZ3	1.66	0.61
34:6R:353:ASP:OD1	34:6R:356:THR:OG1	2.14	0.61
43:8P:230:UNK:HA	45:PE:58:ALA:HB1	1.82	0.61
46:BF:65:LEU:HD22	46:BF:90:PHE:HE1	1.65	0.61
46:BJ:372:THR:HA	46:BJ:422:TYR:HE2	1.65	0.61
46:CD:324:LYS:HE2	45:CE:222:PRO:HG2	1.83	0.61
46:CF:181:GLU:HB3	46:CF:182:PRO:HD3	1.83	0.61
46:DF:222:TYR:O	46:DF:226:ASN:ND2	2.29	0.61
45:EE:326:LYS:HZ1	46:EF:208:TYR:HB3	1.64	0.61
46:FF:215:LEU:HD22	46:FF:217:LEU:HD23	1.80	0.61
45:FG:396:ASP:OD1	45:FG:422:ARG:NH1	2.33	0.61
46:FL:309:ARG:NH2	46:FL:426:GLN:O	2.28	0.61
46:GL:77:ARG:NH1	46:GL:82:GLY:O	2.33	0.61
45:HA:284:GLU:HG2	45:HA:286:LEU:HD22	1.81	0.61
45:HE:292:THR:HG21	45:HE:331:SER:HB3	1.81	0.61
46:HN:67:ASP:OD1	46:HN:68:LEU:N	2.34	0.61
46:HN:222:TYR:O	46:HN:226:ASN:ND2	2.24	0.61
45:IA:1:MET:HG2	45:IA:2:ARG:HD3	1.82	0.61
46:ID:86:ARG:NH2	45:JA:284:GLU:OE1	2.34	0.61
46:IH:114:ASP:OD1	46:IH:115:SER:N	2.33	0.61
45:JG:141:VAL:HG22	45:JG:187:SER:HA	1.83	0.61
46:JH:65:LEU:HD11	46:JH:90:PHE:HD1	1.66	0.61
46:KD:156:ARG:NH2	46:KD:160:PRO:O	2.33	0.61
46:LF:132:GLY:HA3	46:LF:163:ILE:HG22	1.82	0.61
45:LG:116:ASP:OD1	45:LG:117:LEU:N	2.34	0.61
45:LM:11:GLN:NE2	46:LN:245:GLN:O	2.34	0.61
45:MC:258:ASN:HD21	46:MF:178:THR:HG23	1.64	0.61
46:MJ:377:MET:SD	46:MJ:380:ARG:NH2	2.73	0.61
46:NN:222:TYR:HA	46:NN:225:LEU:HD12	1.82	0.61
45:PC:167:LEU:HG	45:PC:200:VAL:HB	1.82	0.61
46:PD:67:ASP:O	46:PD:92:PHE:HA	2.01	0.61
46:PN:86:ARG:HH11	46:QL:281:TYR:HB2	1.65	0.61
46:QB:31:ASP:OD2	46:QB:37:HIS:ND1	2.34	0.61
45:RC:241:SER:OG	45:RC:250:VAL:O	2.16	0.61
46:SL:68:LEU:HB3	46:SL:96:GLY:HA2	1.82	0.61
45:TA:215:ARG:NH2	45:TA:299:ALA:O	2.33	0.61
46:UB:186:THR:O	46:UB:190:HIS:ND1	2.34	0.61
45:UK:399:TYR:O	45:UK:402:ARG:NH1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:2:ARG:HH22	46:VD:70:PRO:HD2	1.66	0.61
45:VG:223:THR:HG23	45:VG:225:THR:H	1.66	0.61
46:VL:158:GLU:HG3	46:VL:159:TYR:CD1	2.36	0.61
46:WN:371:SER:O	46:WN:422:TYR:OH	2.14	0.61
24:1P:337:GLN:HE21	45:TC:26:LEU:HD12	1.63	0.61
34:4R:256:LEU:HD23	34:4R:280:LEU:HD13	1.83	0.61
36:5C:84:TYR:HE1	45:NI:18:ASN:HB3	1.66	0.61
45:AC:241:SER:OG	45:AC:250:VAL:O	2.19	0.61
46:AF:67:ASP:O	46:AF:92:PHE:HA	1.99	0.61
45:BA:215:ARG:NH2	45:BA:300:ASN:OD1	2.34	0.61
46:BD:166:THR:HG21	46:BD:192:LEU:HD11	1.83	0.61
46:BD:190:HIS:NE2	46:BD:410:GLU:OE1	2.34	0.61
45:BG:135:PHE:HB2	45:BG:166:LYS:HG2	1.82	0.61
46:BL:91:VAL:HG21	46:BL:116:VAL:HB	1.81	0.61
46:CB:324:LYS:NZ	45:CC:221:ARG:HA	2.16	0.61
46:CB:344:TRP:HB3	46:CB:430:ALA:HB2	1.82	0.61
46:CF:6:HIS:CD2	46:CF:134:GLN:HE22	2.19	0.61
45:DM:179:THR:HG1	47:DM:501:GTP:HO3'	1.49	0.61
45:FC:288:VAL:HA	45:FC:291:ILE:HG12	1.82	0.61
46:FD:86:ARG:HH11	46:GD:281:TYR:HB3	1.64	0.61
46:GJ:36:TYR:OH	46:GJ:40:SER:O	2.18	0.61
45:HI:211:ASP:OD1	45:HI:215:ARG:NH1	2.32	0.61
46:IN:173:PRO:HD2	46:IN:380:ARG:NH2	2.16	0.61
46:JD:31:ASP:OD1	46:JD:35:THR:N	2.31	0.61
46:JD:204:ASN:OD1	49:JD:501:GDP:N2	2.32	0.61
46:JF:15:GLN:HB3	46:JF:226:ASN:HD21	1.65	0.61
45:KC:241:SER:OG	45:KC:250:VAL:O	2.16	0.61
46:KH:114:ASP:OD1	46:KH:115:SER:N	2.34	0.61
46:KJ:10:GLY:O	46:KJ:14:ASN:ND2	2.33	0.61
45:KK:151:SER:O	45:KK:155:GLU:HG3	2.00	0.61
46:LH:101:TRP:HB2	46:LH:184:ASN:HB3	1.81	0.61
46:MD:114:ASP:OD1	46:MD:115:SER:N	2.33	0.61
45:NC:287:SER:N	45:NC:290:GLU:OE2	2.32	0.61
46:NF:167:PHE:CE1	46:NF:233:MET:HG2	2.36	0.61
45:OC:88:HIS:HA	45:PC:280:LYS:HE3	1.83	0.61
45:PI:71:GLU:OE2	45:PI:73:THR:HG23	2.01	0.61
45:QA:337:THR:O	45:QA:339:ARG:NH1	2.33	0.61
45:RC:7:ILE:HB	45:RC:137:VAL:HG12	1.81	0.61
46:RF:68:LEU:HB3	46:RF:96:GLY:HA2	1.83	0.61
46:RL:238:CYS:SG	46:RL:318:ARG:HD3	2.41	0.61
45:SC:188:ILE:HG21	45:SC:422:ARG:HH12	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TA:56:THR:OG1	45:UA:283:HIS:O	2.18	0.61
45:TA:284:GLU:HG3	45:TA:286:LEU:HD22	1.82	0.61
46:TB:73:MET:HA	46:TB:76:VAL:HG12	1.82	0.61
45:TC:259:LEU:O	45:TC:380:ASN:ND2	2.34	0.61
46:TH:31:ASP:OD1	46:TH:35:THR:N	2.32	0.61
45:TI:90:GLU:CD	45:UI:280:LYS:HZ3	2.04	0.61
46:UH:139:LEU:HD13	46:UH:168:SER:HB3	1.83	0.61
46:UH:381:VAL:HG12	46:UH:385:PHE:HE2	1.65	0.61
46:UL:148:GLY:O	46:UL:152:ILE:HG12	1.99	0.61
45:VG:177:VAL:HG13	46:VH:327:ASP:OD1	2.01	0.61
46:WD:7:ILE:HG22	46:WD:64:ILE:HB	1.82	0.61
46:WJ:318:ARG:CZ	46:WJ:358:PRO:HG3	2.31	0.61
45:WK:195:LEU:O	45:WK:264:ARG:NH2	2.34	0.61
46:WN:207:LEU:HD22	46:WN:228:LEU:HD11	1.83	0.61
45:DC:9:VAL:HG12	45:DC:68:LEU:HB2	1.83	0.61
17:1F:159:THR:OG1	46:HL:291:GLN:OE1	2.19	0.61
8:1H:221:TYR:HE1	46:HH:362:LYS:HZ2	1.49	0.61
37:5E:61:LYS:HG2	46:OB:276:ARG:NH2	2.16	0.61
34:5R:480:ILE:HD12	34:5R:480:ILE:H	1.66	0.61
34:7R:12:LEU:HB2	34:7R:15:HIS:CD2	2.36	0.61
34:7R:126:THR:HG21	34:7R:147:ARG:HE	1.65	0.61
46:AD:107:THR:HG23	46:AD:108:GLU:OE2	2.01	0.61
46:AL:257:LEU:HD11	46:AL:314:SER:HB2	1.83	0.61
45:AM:285:GLN:NE2	45:MM:55:GLU:O	2.27	0.61
45:BA:88:HIS:CE1	45:CA:280:LYS:HE2	2.36	0.61
46:CB:238:CYS:SG	46:CB:239:CYS:N	2.74	0.61
45:CM:292:THR:HG21	45:CM:331:SER:HB3	1.82	0.61
45:DA:226:ASN:ND2	45:DA:367:ASP:OD2	2.34	0.61
46:DD:8:GLN:HE21	46:DD:65:LEU:HD22	1.66	0.61
45:DE:133:GLN:HB3	45:DE:252:ILE:HD12	1.83	0.61
45:DM:188:ILE:HG23	45:DM:425:LEU:HD11	1.83	0.61
46:EB:207:LEU:HD22	46:EB:228:LEU:HD11	1.83	0.61
45:EK:292:THR:HG21	45:EK:331:SER:HB2	1.82	0.61
45:GE:326:LYS:HD2	46:GH:208:TYR:CE1	2.36	0.61
46:IF:258:ILE:HD12	46:IF:264:HIS:HB3	1.82	0.61
45:IG:98:ASP:OD2	45:IG:99:ALA:N	2.33	0.61
46:IH:285:THR:HB	46:IH:287:PRO:HD2	1.82	0.61
46:IJ:6:HIS:HD2	46:IJ:134:GLN:HE22	1.49	0.61
46:IN:5:VAL:HG12	46:IN:62:ARG:HD3	1.81	0.61
45:JE:116:ASP:OD1	45:JE:117:LEU:N	2.33	0.61
46:JH:65:LEU:HD11	46:JH:90:PHE:CD1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JK:22:GLU:OE2	45:JK:229:ARG:NH1	2.34	0.61
45:KE:288:VAL:HA	45:KE:291:ILE:HG12	1.81	0.61
46:KJ:32:PRO:HG3	46:KJ:81:PHE:CE2	2.36	0.61
45:LC:387:VAL:HG12	45:LC:390:ARG:HH12	1.65	0.61
45:LG:226:ASN:ND2	45:LG:367:ASP:OD2	2.34	0.61
45:LI:319:TYR:HD2	45:LI:323:VAL:HG11	1.66	0.61
46:MD:330:MET:HE2	46:MD:349:ILE:HG21	1.83	0.61
45:MG:288:VAL:HA	45:MG:291:ILE:HG12	1.82	0.61
45:MI:88:HIS:CE1	45:MI:90:GLU:HG2	2.36	0.61
45:MM:76:ASP:OD2	45:MM:79:ARG:NH2	2.30	0.61
45:NE:80:THR:O	45:NE:84:ARG:NH2	2.34	0.61
46:NL:68:LEU:HD13	46:NL:93:GLY:HA3	1.82	0.61
45:PM:9:VAL:HG12	45:PM:146:GLY:HA2	1.83	0.61
46:QB:318:ARG:HB3	46:QB:357:PRO:HA	1.82	0.61
45:QC:384:ILE:HG22	45:QC:388:PHE:HE1	1.65	0.61
46:QH:54:ALA:HA	46:RH:283:ALA:HB2	1.83	0.61
45:QK:288:VAL:HG21	45:QK:327:ASP:HB3	1.83	0.61
45:RG:320:ARG:HG2	45:RG:356:ASN:HB3	1.82	0.61
46:RH:309:ARG:NH2	46:RH:426:GLN:O	2.25	0.61
46:RJ:8:GLN:HE22	46:RJ:17:GLY:HA3	1.65	0.61
46:RL:10:GLY:O	46:RL:14:ASN:ND2	2.34	0.61
46:RL:167:PHE:CE1	46:RL:233:MET:HG3	2.35	0.61
46:SD:200:MET:HG3	46:SD:266:PHE:HB2	1.82	0.61
45:SE:138:PHE:HZ	45:SE:235:ILE:HD12	1.66	0.61
45:SI:204:LEU:HD23	45:SI:302:MET:HE1	1.82	0.61
45:SK:21:TRP:HZ3	45:SK:63:PRO:HB3	1.63	0.61
45:SK:98:ASP:O	45:SK:105:ARG:NH1	2.34	0.61
45:TC:288:VAL:HG11	45:TC:327:ASP:HB3	1.81	0.61
46:TL:173:PRO:HG2	46:TL:380:ARG:HE	1.64	0.61
46:TL:189:VAL:HA	46:TL:192:LEU:HG	1.83	0.61
46:UB:190:HIS:CE1	46:UB:411:ALA:HB1	2.36	0.61
46:UN:97:ALA:HB2	46:UN:143:THR:HB	1.83	0.61
45:VK:264:ARG:CZ	45:VK:264:ARG:HA	2.30	0.61
46:VL:77:ARG:NH2	46:VL:83:GLN:OE1	2.34	0.61
46:VL:371:SER:O	46:VL:422:TYR:OH	2.16	0.61
46:WB:114:ASP:OD1	46:WB:115:SER:N	2.33	0.61
46:WJ:77:ARG:NH1	46:WJ:83:GLN:OE1	2.32	0.61
4:1D:177:THR:HG21	46:EF:47:ILE:HG22	1.83	0.60
31:2I:103:ARG:HH21	46:GF:297:LYS:HA	1.66	0.60
14:2V:99:PRO:HG2	45:LE:409:VAL:HG11	1.82	0.60
15:3X:90:ARG:NH2	34:6R:47:GLU:O	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:4C:224:LYS:O	45:KM:221:ARG:NH2	2.34	0.60
36:5B:68:ASP:HA	37:5F:69:LYS:NZ	2.16	0.60
37:5E:116:TYR:HE1	45:NA:85:GLN:HA	1.66	0.60
10:6Q:54:VAL:O	10:6Q:157:HIS:ND1	2.29	0.60
34:7R:259:ASN:HB2	34:7R:351:ASN:HB2	1.83	0.60
45:AE:88:HIS:CE1	45:AE:90:GLU:HG2	2.35	0.60
45:AM:2:ARG:HH21	45:AM:243:ARG:HA	1.66	0.60
45:BA:265:ILE:HG22	45:BA:380:ASN:HD21	1.66	0.60
46:BJ:73:MET:HA	46:BJ:76:VAL:HG12	1.83	0.60
45:BM:88:HIS:CE1	45:CM:280:LYS:HZ1	2.19	0.60
45:BM:271:SER:HB2	45:BM:377:MET:HB3	1.82	0.60
45:CK:206:ASN:OD1	47:CK:501:GTP:N2	2.31	0.60
46:CL:55:THR:HG23	46:DL:283:ALA:HA	1.83	0.60
46:EF:128:ASP:OD1	46:EF:129:CYS:N	2.34	0.60
45:FM:241:SER:OG	45:FM:250:VAL:O	2.14	0.60
46:FN:169:VAL:HG12	46:FN:202:ILE:HB	1.81	0.60
45:GG:358:GLN:NE2	45:GG:359:PRO:O	2.32	0.60
46:HB:73:MET:HE1	46:HB:92:PHE:HB3	1.83	0.60
46:HB:86:ARG:HH12	46:IB:281:TYR:HB3	1.64	0.60
45:HC:76:ASP:OD2	46:HD:46:ARG:NH2	2.34	0.60
45:II:180:ALA:HA	46:IJ:350:LYS:NZ	2.16	0.60
46:IJ:139:LEU:HD13	46:IJ:168:SER:HB3	1.83	0.60
45:JC:221:ARG:HA	45:JC:221:ARG:NH1	2.16	0.60
46:KL:263:LEU:HG	46:KL:422:TYR:HE1	1.66	0.60
46:KN:199:CYS:HB2	46:KN:265:PHE:HA	1.83	0.60
45:LK:387:VAL:HG12	45:LK:390:ARG:HH22	1.65	0.60
45:MK:377:MET:HE3	45:MK:379:SER:HB3	1.83	0.60
46:OJ:371:SER:O	46:OJ:422:TYR:OH	2.19	0.60
46:OL:5:VAL:HG12	46:OL:62:ARG:HD3	1.82	0.60
45:PC:292:THR:HG21	45:PC:331:SER:HB3	1.80	0.60
46:PD:209:ASP:HB3	46:PD:213:ARG:HH12	1.65	0.60
46:PN:58:ARG:HH22	46:PN:84:LEU:HA	1.65	0.60
46:PN:86:ARG:NH1	46:QL:278:SER:HA	2.16	0.60
45:QA:28:HIS:NE2	45:QA:48:ALA:O	2.34	0.60
45:QC:319:TYR:HB3	45:QC:323:VAL:HG11	1.83	0.60
46:QH:284:LEU:HD11	46:QH:362:LYS:HB2	1.81	0.60
46:QL:55:THR:HG23	46:RL:283:ALA:HA	1.82	0.60
46:RB:117:LEU:HB3	46:RB:121:ARG:HH12	1.65	0.60
45:RE:217:LEU:HD11	45:RE:367:ASP:HB2	1.83	0.60
46:RH:268:ILE:HG22	46:RH:368:VAL:HG22	1.83	0.60
46:RJ:11:GLN:NE2	46:RJ:12:CYS:SG	2.74	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RM:324:VAL:HG12	45:RM:326:LYS:HG3	1.83	0.60
46:SB:3:GLU:OE1	46:SB:62:ARG:NH1	2.34	0.60
46:SH:260:PHE:HB2	46:SH:263:LEU:HD13	1.82	0.60
46:SL:149:THR:OG1	46:SL:191:GLN:OE1	2.18	0.60
46:TJ:414:ASN:O	46:TJ:418:LEU:HG	2.01	0.60
46:UB:178:THR:HB	46:UB:181:GLU:HG3	1.82	0.60
46:UF:376:GLU:HA	46:UF:379:LYS:HG2	1.83	0.60
45:UM:205:ASP:OD1	45:UM:206:ASN:N	2.34	0.60
45:CE:116:ASP:OD1	45:CE:117:LEU:N	2.34	0.60
14:OV:91:GLY:HA3	46:LN:194:GLU:HB3	1.82	0.60
24:1P:222:LEU:HD12	45:TG:282:TYR:CZ	2.35	0.60
5:2E:46:ASP:HB3	34:5R:379:LYS:HE3	1.81	0.60
45:AK:88:HIS:CE1	45:AK:90:GLU:HG2	2.36	0.60
45:BC:69:ASP:OD1	45:BC:70:LEU:N	2.33	0.60
45:BC:331:SER:O	45:BC:335:ILE:HG12	2.00	0.60
46:BL:60:VAL:HG21	46:BL:86:ARG:NE	2.16	0.60
46:CB:132:GLY:HA3	46:CB:163:ILE:HG22	1.82	0.60
45:CC:292:THR:HG21	45:CC:331:SER:HB3	1.82	0.60
46:CH:252:LYS:HD2	45:CI:101:ASN:HB2	1.83	0.60
46:CL:31:ASP:OD1	46:CL:35:THR:N	2.30	0.60
45:CM:40:LYS:HE3	45:CM:40:LYS:HA	1.82	0.60
46:DB:331:LEU:HD11	45:DC:177:VAL:HG22	1.82	0.60
46:DH:8:GLN:NE2	46:DH:14:ASN:OD1	2.33	0.60
45:DK:311:LYS:HE3	45:DK:342:GLN:HB3	1.82	0.60
46:EF:107:THR:OG1	46:EF:108:GLU:OE1	2.19	0.60
46:EN:207:LEU:HD13	46:EN:225:LEU:HB3	1.84	0.60
46:FD:309:ARG:H	46:FD:372:THR:HG1	1.49	0.60
46:FF:285:THR:OG1	46:FF:288:GLU:OE1	2.19	0.60
46:GD:213:ARG:HH21	46:GD:297:LYS:HE3	1.65	0.60
46:GD:399:THR:HA	46:GD:403:MET:O	2.01	0.60
45:GE:325:PRO:C	45:GE:326:LYS:HE2	2.22	0.60
46:GN:257:LEU:HD11	46:GN:314:SER:HB2	1.83	0.60
46:HB:130:LEU:HD12	46:HB:131:GLN:H	1.65	0.60
45:HG:288:VAL:HG11	45:HG:327:ASP:HB3	1.82	0.60
46:HL:273:LEU:H	46:HL:292:GLN:HE22	1.47	0.60
46:IH:273:LEU:H	46:IH:292:GLN:HE22	1.48	0.60
45:IK:207:GLU:OE2	45:IK:304:LYS:HD3	2.01	0.60
46:JF:207:LEU:HD13	46:JF:225:LEU:HB3	1.83	0.60
45:KA:271:SER:HB3	45:KA:377:MET:HB3	1.81	0.60
46:KJ:218:THR:HG23	46:KJ:219:THR:HG23	1.82	0.60
45:KM:167:LEU:HG	45:KM:200:VAL:HB	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LD:114:ASP:OD1	46:LD:115:SER:N	2.35	0.60
46:LJ:83:GLN:O	46:MJ:281:TYR:OH	2.17	0.60
46:OJ:2:ARG:HH21	46:OJ:46:ARG:HH12	1.49	0.60
46:PD:224:ASP:HA	46:PD:227:HIS:CD2	2.35	0.60
45:QC:20:CYS:HA	45:QC:232:ALA:HB1	1.81	0.60
46:RD:73:MET:HA	46:RD:76:VAL:HG12	1.82	0.60
46:RL:67:ASP:O	46:RL:92:PHE:HA	2.00	0.60
45:SM:48:ALA:HB1	45:SM:243:ARG:HB2	1.83	0.60
45:TI:116:ASP:OD1	45:TI:117:LEU:N	2.31	0.60
46:UL:173:PRO:HD3	46:UL:380:ARG:HE	1.66	0.60
45:VI:222:PRO:HD2	46:VJ:324:LYS:HD3	1.83	0.60
46:WD:318:ARG:HG2	46:WD:358:PRO:HD3	1.82	0.60
45:WE:27:GLU:OE2	45:WE:243:ARG:NH1	2.33	0.60
46:WF:362:LYS:HG2	46:WF:363:MET:HG3	1.83	0.60
46:WJ:67:ASP:O	46:WJ:92:PHE:HA	2.00	0.60
19:1J:80:LYS:HZ1	45:IC:373:ARG:HB2	1.67	0.60
26:1W:242:LEU:HD21	34:7R:15:HIS:ND1	2.15	0.60
25:3R:404:ARG:NH2	45:DK:57:GLY:O	2.34	0.60
35:4S:144:ILE:HD12	35:4S:144:ILE:H	1.66	0.60
37:5G:46:LEU:HG	37:5G:47:GLU:H	1.66	0.60
45:AA:89:PRO:HD2	45:BA:280:LYS:HZ3	1.67	0.60
46:AB:375:GLN:HE22	46:AB:419:VAL:HA	1.65	0.60
46:AD:238:CYS:SG	46:AD:318:ARG:HD3	2.41	0.60
46:AN:86:ARG:HD2	46:BN:281:TYR:CD1	2.35	0.60
46:BB:253:LEU:O	46:BB:257:LEU:HB2	2.01	0.60
46:BH:268:ILE:HG13	46:BH:300:MET:HG3	1.82	0.60
45:BK:69:ASP:OD1	45:BK:70:LEU:N	2.34	0.60
45:CC:406:HIS:HA	45:CC:409:VAL:HG12	1.83	0.60
45:DE:123:ARG:NH1	45:DE:161:TYR:OH	2.33	0.60
45:DK:319:TYR:HB3	45:DK:323:VAL:HG11	1.83	0.60
46:DL:1:MET:N	46:DL:3:GLU:OE1	2.26	0.60
46:EF:114:ASP:OD1	46:EF:115:SER:N	2.34	0.60
46:EJ:221:THR:HG23	46:EJ:224:ASP:H	1.67	0.60
46:FN:67:ASP:OD1	46:FN:68:LEU:N	2.33	0.60
45:GK:101:ASN:HA	45:GK:144:GLY:H	1.65	0.60
45:HE:251:ASP:H	45:HE:254:GLU:HB2	1.65	0.60
45:II:74:VAL:O	45:II:78:VAL:HG23	2.02	0.60
45:II:268:MET:HG3	45:II:380:ASN:HB2	1.83	0.60
45:KG:271:SER:HA	45:KG:302:MET:HG3	1.82	0.60
46:KH:222:TYR:O	46:KH:226:ASN:ND2	2.24	0.60
45:LC:116:ASP:OD1	45:LC:117:LEU:N	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LK:351:PHE:HB2	46:LN:176:SER:HB3	1.82	0.60
46:MF:156:ARG:NH2	46:MF:197:ASP:OD2	2.25	0.60
45:MG:407:TRP:HZ2	46:MH:258:ILE:HD11	1.65	0.60
46:MH:73:MET:SD	46:MH:92:PHE:HB3	2.41	0.60
46:MH:211:CYS:SG	46:MH:220:PRO:HB3	2.40	0.60
45:NK:11:GLN:NE2	46:NL:245:GLN:O	2.34	0.60
45:OA:169:PHE:HA	45:OA:202:VAL:HG22	1.84	0.60
46:PH:256:ASN:HD22	46:PH:350:LYS:HE3	1.66	0.60
45:PK:51:THR:O	45:PK:64:ARG:NH1	2.34	0.60
45:QE:56:THR:HG23	45:QE:58:ALA:H	1.65	0.60
46:RB:54:ALA:HA	46:SB:283:ALA:HB2	1.82	0.60
46:RB:289:LEU:HD13	46:RB:365:VAL:HG23	1.83	0.60
46:RB:374:ILE:HG22	46:RB:378:PHE:HE2	1.65	0.60
45:RG:64:ARG:NH1	45:RG:129:CYS:SG	2.74	0.60
45:SC:339:ARG:NH1	45:SC:339:ARG:O	2.35	0.60
45:SG:392:ASP:HA	45:SG:422:ARG:HH12	1.66	0.60
46:SH:68:LEU:HD12	46:SH:93:GLY:HA3	1.84	0.60
45:SK:56:THR:HG23	45:SK:58:ALA:H	1.66	0.60
45:SK:429:GLU:HA	45:SK:432:TYR:HD2	1.67	0.60
45:TA:64:ARG:NH1	45:TA:129:CYS:SG	2.74	0.60
45:TA:254:GLU:HG2	46:TB:98:GLY:HA2	1.82	0.60
45:TI:298:PRO:HA	45:TI:301:MET:HE1	1.83	0.60
46:TL:91:VAL:HG21	46:TL:116:VAL:HB	1.82	0.60
46:UD:316:LEU:HD13	46:UD:352:SER:HB2	1.82	0.60
45:UG:258:ASN:HD22	46:UH:179:VAL:HG22	1.66	0.60
46:UJ:86:ARG:HH21	46:UJ:87:PRO:HG2	1.65	0.60
46:UN:132:GLY:HA2	46:UN:162:ARG:HB3	1.83	0.60
46:VB:117:LEU:HA	46:VB:120:VAL:HG22	1.82	0.60
46:VB:221:THR:HG23	46:VB:224:ASP:H	1.66	0.60
46:VH:114:ASP:OD1	46:VH:115:SER:N	2.34	0.60
46:VN:114:ASP:OD1	46:VN:115:SER:N	2.34	0.60
45:WA:178:SER:HB2	46:WB:347:ASN:HD21	1.66	0.60
46:WB:153:SER:HB2	46:WB:191:GLN:HE21	1.66	0.60
46:WD:143:THR:OG1	49:WD:501:GDP:O1B	2.19	0.60
24:1P:391:ARG:HB3	45:TA:370:LYS:HE2	1.81	0.60
21:2L:658:ARG:HH21	46:BN:42:LEU:HA	1.64	0.60
30:3H:220:ARG:HG2	45:MG:84:ARG:HD3	1.83	0.60
37:5F:29:LYS:HD2	37:5F:30:PRO:HD2	1.83	0.60
40:6G:148:ASP:OD1	40:6G:149:ALA:N	2.32	0.60
45:AC:322:ASP:OD1	45:AC:373:ARG:NH1	2.34	0.60
45:AI:108:TYR:O	45:AI:112:LYS:NZ	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:326:LYS:HG2	46:AL:220:PRO:HD2	1.83	0.60
46:AN:55:THR:HG23	46:BN:283:ALA:HA	1.84	0.60
45:BK:56:THR:OG1	45:CK:282:TYR:O	2.16	0.60
46:DB:77:ARG:NH1	46:DB:85:PHE:O	2.35	0.60
46:DB:222:TYR:O	46:DB:226:ASN:ND2	2.28	0.60
45:EA:284:GLU:HG3	45:EA:286:LEU:HD22	1.84	0.60
46:EL:203:ASP:HB3	46:EL:301:CYS:HA	1.83	0.60
46:EL:222:TYR:O	46:EL:226:ASN:ND2	2.30	0.60
46:FB:42:LEU:HA	46:FB:45:GLU:HG3	1.83	0.60
45:FE:292:THR:HG21	45:FE:331:SER:HB3	1.83	0.60
46:FH:73:MET:HA	46:FH:76:VAL:HG12	1.82	0.60
46:FH:90:PHE:HB3	46:FH:92:PHE:HE1	1.66	0.60
45:FK:55:GLU:HG3	45:FK:57:GLY:H	1.66	0.60
45:FM:188:ILE:HD12	45:FM:425:LEU:HD11	1.81	0.60
46:GB:274:THR:HB	46:GB:282:ARG:HH11	1.66	0.60
45:GK:55:GLU:O	45:HK:285:GLN:NE2	2.34	0.60
45:HE:100:ALA:HA	46:HF:252:LYS:HZ3	1.66	0.60
45:HM:265:ILE:HG22	45:HM:380:ASN:HD21	1.66	0.60
46:HN:207:LEU:HB3	46:HN:225:LEU:HD22	1.84	0.60
45:IC:260:VAL:HB	46:IF:397:TRP:CZ2	2.36	0.60
45:IE:167:LEU:HD13	45:IE:200:VAL:HB	1.83	0.60
46:IH:167:PHE:HE2	46:IH:233:MET:HG2	1.67	0.60
46:JN:149:THR:HA	46:JN:152:ILE:HD12	1.83	0.60
45:KI:174:SER:HB3	45:KI:177:VAL:O	2.01	0.60
45:LC:210:TYR:OH	46:LD:323:THR:OG1	2.19	0.60
45:LI:119:LEU:HD11	45:LI:156:ARG:HG2	1.83	0.60
45:LM:244:PHE:HB2	45:LM:356:ASN:HD21	1.65	0.60
45:MK:288:VAL:HA	45:MK:291:ILE:HG12	1.81	0.60
46:ND:148:GLY:O	46:ND:152:ILE:HD12	2.01	0.60
46:NF:64:ILE:HA	46:NF:89:ASN:HB3	1.83	0.60
45:NM:121:ARG:HD2	45:NM:124:LYS:NZ	2.16	0.60
45:OC:256:GLN:HG2	46:OF:397:TRP:HH2	1.66	0.60
46:OF:179:VAL:HG13	46:OF:180:VAL:HG13	1.83	0.60
45:QE:188:ILE:HD12	45:QE:425:LEU:HD11	1.82	0.60
45:QK:292:THR:HG21	45:QK:331:SER:HB3	1.83	0.60
45:RC:30:ILE:HA	45:RC:36:MET:HE1	1.83	0.60
45:RC:109:THR:O	45:RC:112:LYS:NZ	2.34	0.60
45:RE:296:PHE:HE1	45:RE:377:MET:HG3	1.65	0.60
46:RJ:178:THR:HB	46:RJ:181:GLU:HG3	1.84	0.60
46:TJ:258:ILE:HB	45:TK:407:TRP:HH2	1.65	0.60
45:TM:64:ARG:NH1	45:TM:129:CYS:SG	2.74	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UG:244:PHE:HB2	45:UG:356:ASN:HD21	1.65	0.60
46:UL:102:ALA:O	46:UL:106:TYR:HB2	2.00	0.60
46:UN:8:GLN:NE2	46:UN:136:THR:OG1	2.35	0.60
46:VB:164:MET:HE3	46:VB:196:ALA:HA	1.82	0.60
46:VD:70:PRO:HA	46:VD:73:MET:SD	2.42	0.60
45:VI:336:LYS:HD3	45:VI:351:PHE:HE1	1.66	0.60
46:VJ:405:GLU:OE2	46:VJ:409:THR:OG1	2.18	0.60
46:WL:139:LEU:HD13	46:WL:168:SER:HB3	1.83	0.60
45:CE:244:PHE:HB2	45:CE:356:ASN:HD21	1.67	0.60
19:1J:153:GLU:HB3	39:6F:127:TRP:HZ2	1.65	0.60
25:2R:249:LYS:HG2	45:BG:58:ALA:HB1	1.82	0.60
25:3R:465:GLU:HG2	46:EL:79:GLY:HA2	1.83	0.60
33:4F:159:PRO:O	46:IN:320:ARG:NH1	2.34	0.60
36:5C:27:LYS:HE2	36:5C:30:LYS:HB2	1.84	0.60
37:5G:54:LYS:HD3	46:OJ:227:HIS:CE1	2.36	0.60
35:5S:69:TYR:OH	45:WE:127:ASP:OD2	2.16	0.60
34:6R:287:ILE:HD12	34:6R:304:LEU:HD13	1.83	0.60
34:7R:534:HIS:ND1	34:7R:578:TYR:OH	2.33	0.60
46:AD:259:PRO:HG2	46:AD:311:LEU:HD21	1.83	0.60
45:AG:31:GLN:HG3	45:AG:32:PRO:HD2	1.84	0.60
46:AJ:135:ILE:HG13	46:AJ:152:ILE:HD11	1.82	0.60
45:AM:338:LYS:HZ2	45:AM:340:THR:H	1.50	0.60
45:BM:122:ILE:HD13	45:BM:157:LEU:HD21	1.84	0.60
46:CJ:86:ARG:NE	46:CJ:86:ARG:HA	2.16	0.60
45:FA:406:HIS:NE2	46:FB:261:PRO:HD3	2.16	0.60
46:FH:8:GLN:HE21	46:FH:14:ASN:HA	1.66	0.60
46:FJ:64:ILE:HD13	46:FJ:119:VAL:HG13	1.83	0.60
45:FK:326:LYS:HD3	46:FN:208:TYR:CG	2.36	0.60
45:GC:205:ASP:OD1	45:GC:206:ASN:N	2.35	0.60
46:HF:309:ARG:NH2	46:HF:426:GLN:O	2.33	0.60
45:HM:47:ASP:OD1	45:HM:50:ASN:ND2	2.35	0.60
45:IE:328:VAL:HG11	45:IE:353:VAL:HG21	1.81	0.60
46:JB:24:ILE:HA	46:JB:27:GLU:OE1	2.02	0.60
46:JN:63:ALA:O	46:JN:89:ASN:ND2	2.32	0.60
46:JN:370:ASN:OD1	46:JN:422:TYR:OH	2.18	0.60
46:KH:8:GLN:HE21	46:KH:65:LEU:HD21	1.65	0.60
46:KH:49:VAL:HG11	46:KH:241:ARG:HG2	1.82	0.60
45:KK:64:ARG:NH1	45:KK:129:CYS:SG	2.75	0.60
45:LG:39:ASP:OD1	45:LG:40:LYS:N	2.34	0.60
46:LN:337:ASN:HB3	46:LN:340:TYR:HD2	1.67	0.60
46:MD:67:ASP:OD1	46:MD:68:LEU:N	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ME:292:THR:HG21	45:ME:331:SER:HB3	1.83	0.60
46:MJ:148:GLY:O	46:MJ:152:ILE:HG12	2.01	0.60
46:NB:19:LYS:O	46:NB:22:GLU:HG3	2.01	0.60
46:NB:52:ASN:OD1	46:NB:62:ARG:NH1	2.34	0.60
45:NG:210:TYR:HE1	45:NG:227:LEU:HD21	1.66	0.60
46:NJ:67:ASP:O	46:NJ:92:PHE:HA	2.01	0.60
45:NK:169:PHE:HA	45:NK:202:VAL:HG22	1.84	0.60
47:NK:501:GTP:O1G	46:NL:252:LYS:NZ	2.33	0.60
46:NL:96:GLY:O	46:NL:103:LYS:NZ	2.34	0.60
45:OG:249:ASN:ND2	46:OJ:11:GLN:OE1	2.32	0.60
46:OL:217:LEU:HA	46:OL:276:ARG:HH21	1.67	0.60
46:ON:135:ILE:HG13	46:ON:152:ILE:HD11	1.83	0.60
45:QE:15:GLN:NE2	47:QE:501:GTP:O6	2.35	0.60
46:RB:326:VAL:O	46:RB:330:MET:HG2	2.01	0.60
45:RG:371:VAL:HG12	45:RG:373:ARG:H	1.67	0.60
46:RL:178:THR:HB	46:RL:181:GLU:HG3	1.82	0.60
45:RM:56:THR:HG23	45:RM:58:ALA:H	1.66	0.60
46:SF:256:ASN:OD1	45:SG:181:VAL:HG22	2.01	0.60
45:TA:188:ILE:HD12	45:TA:425:LEU:HD11	1.82	0.60
46:TL:241:ARG:NH1	46:TL:242:PHE:HD2	2.00	0.60
46:TL:345:ILE:HG22	46:TL:348:ASN:HB3	1.83	0.60
45:UA:326:LYS:HE3	46:UB:220:PRO:HD2	1.81	0.60
46:UB:240:LEU:HD21	46:UB:249:ASP:HA	1.82	0.60
46:UD:101:TRP:HB3	46:UD:398:TYR:HE1	1.67	0.60
46:UF:109:GLY:O	46:UF:113:ILE:HG23	2.01	0.60
45:UM:33:ASP:HA	45:UM:85:GLN:HE21	1.67	0.60
45:VA:101:ASN:HA	45:VA:144:GLY:H	1.65	0.60
46:VB:149:THR:HG21	46:VB:191:GLN:HE21	1.65	0.60
45:VE:339:ARG:O	45:VE:342:GLN:NE2	2.34	0.60
45:VE:350:GLY:HA2	46:VH:179:VAL:HG12	1.83	0.60
46:VF:41:ASP:OD1	46:VF:42:LEU:N	2.34	0.60
46:WJ:2:ARG:HB2	46:WJ:131:GLN:HG2	1.83	0.60
45:WK:50:ASN:O	45:WK:64:ARG:NH2	2.20	0.60
45:WK:387:VAL:HA	45:WK:390:ARG:HG2	1.82	0.60
46:WL:48:ASN:O	46:WL:62:ARG:NH1	2.35	0.60
46:WN:158:GLU:HG3	46:WN:159:TYR:CD1	2.36	0.60
37:5F:157:ARG:HH22	46:NH:37:HIS:HA	1.66	0.60
34:6R:497:GLN:HB2	34:6R:502:ARG:HH11	1.67	0.60
45:AM:141:VAL:HG11	45:AM:172:TYR:HD1	1.66	0.60
45:BC:98:ASP:OD2	45:BC:99:ALA:N	2.34	0.60
46:DB:190:HIS:CD2	46:DB:411:ALA:HA	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DJ:63:ALA:O	46:DJ:89:ASN:ND2	2.34	0.60
45:DK:31:GLN:HE22	45:DK:37:PRO:HB3	1.67	0.60
46:DL:344:TRP:HB3	46:DL:430:ALA:HB2	1.81	0.60
46:EF:258:ILE:HG13	45:EG:407:TRP:HE1	1.65	0.60
46:EJ:114:ASP:OD2	46:EJ:115:SER:N	2.35	0.60
46:EL:208:TYR:HE2	46:EL:225:LEU:HD11	1.65	0.60
45:FA:80:THR:O	45:FA:84:ARG:NH2	2.33	0.60
45:FC:206:ASN:OD1	47:FC:501:GTP:N2	2.33	0.60
45:FG:76:ASP:OD2	46:FH:46:ARG:NH2	2.35	0.60
46:FH:6:HIS:O	46:FH:63:ALA:HA	2.01	0.60
45:GG:221:ARG:HH22	46:GH:321:MET:HA	1.66	0.60
46:HB:100:ASN:ND2	46:HB:401:GLU:OE1	2.34	0.60
45:IG:74:VAL:HG23	45:IG:75:ILE:HD12	1.83	0.60
45:II:2:ARG:NH2	45:II:47:ASP:OD1	2.34	0.60
46:IJ:238:CYS:SG	46:IJ:318:ARG:HD3	2.42	0.60
45:KA:371:VAL:HG12	45:KA:373:ARG:H	1.67	0.60
45:KI:289:ALA:O	45:KI:293:ASN:ND2	2.34	0.60
46:LF:31:ASP:OD1	46:LF:35:THR:N	2.29	0.60
46:MB:149:THR:HG21	46:MB:191:GLN:HE21	1.67	0.60
45:MC:140:SER:OG	47:MC:501:GTP:O2B	2.19	0.60
46:MJ:273:LEU:H	46:MJ:292:GLN:HE22	1.47	0.60
45:NA:250:VAL:HG13	45:NA:254:GLU:HB2	1.82	0.60
45:NC:68:LEU:HD21	45:NC:118:CYS:HB2	1.83	0.60
46:NJ:103:LYS:NZ	46:NJ:401:GLU:OE2	2.33	0.60
45:OC:177:VAL:HG11	46:OD:324:LYS:NZ	2.16	0.60
45:OK:54:SER:HB3	45:OK:64:ARG:HE	1.66	0.60
45:OK:265:ILE:HG22	45:OK:380:ASN:HD21	1.66	0.60
45:PA:141:VAL:HG11	45:PA:172:TYR:HD1	1.66	0.60
45:PA:315:CYS:HB2	45:PA:377:MET:HE2	1.83	0.60
45:PE:121:ARG:HA	45:PE:121:ARG:NH1	2.17	0.60
45:PE:346:TRP:CD1	46:PH:391:ARG:HG3	2.36	0.60
45:PI:64:ARG:NH2	45:PI:129:CYS:SG	2.68	0.60
46:PL:388:MET:N	46:PL:388:MET:HE2	2.16	0.60
45:QI:141:VAL:HG11	45:QI:172:TYR:HD1	1.65	0.60
46:QJ:5:VAL:HG12	46:QJ:62:ARG:HD3	1.81	0.60
46:QJ:66:MET:HE3	46:QJ:151:LEU:HD13	1.84	0.60
45:QM:296:PHE:HE1	45:QM:377:MET:HG3	1.65	0.60
45:RA:135:PHE:HB2	45:RA:166:LYS:HG2	1.84	0.60
46:RF:268:ILE:HG22	46:RF:368:VAL:HG22	1.82	0.60
46:SF:2:ARG:HH12	45:SG:71:GLU:HG2	1.66	0.60
46:SH:324:LYS:NZ	45:SI:214:ARG:HB3	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SI:292:THR:HG21	45:SI:331:SER:HB3	1.83	0.60
46:SN:387:ALA:HA	46:SN:390:ARG:HE	1.66	0.60
45:TK:89:PRO:HG2	45:UK:280:LYS:HD3	1.84	0.60
46:UF:324:LYS:HD3	45:UG:222:PRO:HD2	1.83	0.60
45:UK:2:ARG:HH22	46:UL:70:PRO:HD2	1.66	0.60
46:UN:164:MET:HB2	46:UN:197:ASP:H	1.67	0.60
45:VG:346:TRP:CD1	46:VJ:391:ARG:HG3	2.37	0.60
46:VH:260:PHE:HB2	46:VH:263:LEU:HD13	1.84	0.60
46:VN:140:GLY:O	46:VN:184:ASN:ND2	2.33	0.60
45:WE:222:PRO:HD2	46:WF:324:LYS:HG3	1.84	0.60
45:DC:280:LYS:HD2	45:DC:283:HIS:CD2	2.36	0.60
2:0B:203:THR:HG21	45:KI:285:GLN:OE1	2.01	0.60
7:0G:114:LYS:NZ	45:JM:366:GLY:O	2.34	0.60
20:1K:249:GLU:OE2	46:GB:280:GLN:NE2	2.34	0.60
30:2H:191:LEU:HD23	46:AD:360:GLY:HA2	1.84	0.60
22:2M:67:TYR:HE1	46:IJ:80:PRO:HB3	1.65	0.60
34:4R:318:TYR:HE1	46:CF:273:LEU:HD23	1.65	0.60
37:5G:72:ASP:OD2	37:5G:73:ARG:N	2.34	0.60
46:BD:273:LEU:H	46:BD:292:GLN:HE22	1.49	0.60
45:BE:210:TYR:CZ	46:BF:324:LYS:HG2	2.37	0.60
46:BJ:222:TYR:O	46:BJ:226:ASN:ND2	2.24	0.60
45:BM:222:PRO:C	46:BN:322:SER:HG	2.04	0.60
46:CL:273:LEU:H	46:CL:292:GLN:NE2	1.97	0.60
46:DB:174:LYS:HB3	46:DB:205:GLU:HG3	1.84	0.60
45:DG:324:VAL:HG11	45:DG:326:LYS:HE2	1.84	0.60
46:DL:324:LYS:HG3	45:DM:222:PRO:HD2	1.83	0.60
45:DM:188:ILE:HD12	45:DM:425:LEU:HD11	1.82	0.60
46:DN:4:ILE:O	46:DN:62:ARG:NH2	2.35	0.60
45:EI:399:TYR:O	45:EI:402:ARG:NH1	2.35	0.60
46:FD:167:PHE:CE1	46:FD:233:MET:HG2	2.35	0.60
45:FG:325:PRO:HB2	46:FJ:208:TYR:OH	2.02	0.60
45:HA:140:SER:OG	47:HA:501:GTP:O2B	2.19	0.60
46:HF:178:THR:HB	46:HF:181:GLU:HG3	1.81	0.60
45:HM:292:THR:HG21	45:HM:331:SER:HB3	1.83	0.60
45:IG:362:VAL:HB	45:IG:370:LYS:HB3	1.83	0.60
46:IJ:88:ASP:OD1	46:IJ:89:ASN:N	2.34	0.60
46:IN:226:ASN:HD21	49:IN:501:GDP:HN1	1.48	0.60
46:JJ:226:ASN:HD21	49:JJ:501:GDP:HN1	1.48	0.60
45:LA:55:GLU:OE2	45:LA:61:HIS:NE2	2.34	0.60
46:LB:178:THR:HB	46:LB:181:GLU:HB3	1.84	0.60
45:LM:174:SER:HB2	45:LM:177:VAL:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MH:289:LEU:HD13	46:MH:365:VAL:HG23	1.84	0.60
45:NA:7:ILE:HB	45:NA:137:VAL:HG12	1.84	0.60
45:NE:101:ASN:HA	45:NE:144:GLY:H	1.67	0.60
46:NF:222:TYR:O	46:NF:226:ASN:ND2	2.35	0.60
46:NF:258:ILE:HD12	46:NF:264:HIS:HB3	1.83	0.60
45:NG:103:PHE:HE1	45:NG:148:GLY:HA2	1.67	0.60
45:NG:192:HIS:HA	45:NG:195:LEU:HD23	1.84	0.60
46:NL:238:CYS:SG	46:NL:239:CYS:N	2.74	0.60
46:OH:217:LEU:HG	46:OH:276:ARG:HH12	1.66	0.60
46:PB:200:MET:HG2	46:PB:266:PHE:HB2	1.83	0.60
45:PM:109:THR:OG1	45:PM:411:GLU:OE2	2.16	0.60
45:QC:288:VAL:HG21	45:QC:327:ASP:HB3	1.81	0.60
45:QI:175:PRO:HG3	45:QI:390:ARG:CZ	2.31	0.60
45:SA:226:ASN:ND2	45:SA:367:ASP:OD2	2.34	0.60
45:SG:76:ASP:OD1	45:SG:79:ARG:NH2	2.35	0.60
46:SJ:51:TYR:O	46:SJ:62:ARG:NH2	2.30	0.60
46:TH:389:PHE:HZ	46:TH:405:GLU:HG2	1.67	0.60
45:TM:241:SER:O	45:TM:249:ASN:ND2	2.31	0.60
45:UK:288:VAL:HG11	45:UK:327:ASP:HB3	1.83	0.60
45:UM:276:ILE:HD11	45:UM:280:LYS:HG3	1.84	0.60
45:VE:128:ASN:OD1	45:WE:285:GLN:NE2	2.34	0.60
45:WA:100:ALA:HA	46:WB:252:LYS:HD2	1.83	0.60
45:WA:210:TYR:OH	46:WB:323:THR:OG1	2.19	0.60
46:WF:49:VAL:HG11	46:WF:241:ARG:HG2	1.84	0.60
46:WJ:248:SER:HA	46:WJ:252:LYS:HG3	1.84	0.60
18:II:142:GLN:HG3	46:KF:320:ARG:HH21	1.67	0.60
10:1Q:33:HIS:HB3	35:4S:197:ARG:HH11	1.66	0.60
14:1V:24:ARG:NH2	45:MI:430:LYS:HD3	2.17	0.60
11:2S:150:GLN:NE2	45:WG:164:LYS:HG2	2.16	0.60
10:5Q:48:GLU:CG	10:5Q:161:ARG:HG2	2.32	0.60
45:AC:141:VAL:HG11	45:AC:172:TYR:HD1	1.67	0.60
46:AL:67:ASP:OD2	46:AL:72:THR:OG1	2.17	0.60
45:BA:11:GLN:NE2	47:BA:501:GTP:O1B	2.35	0.60
45:BE:329:ASN:ND2	46:BH:175:VAL:HA	2.15	0.60
45:BG:286:LEU:O	45:BG:373:ARG:NH1	2.35	0.60
45:CM:214:ARG:HA	45:CM:214:ARG:HH11	1.65	0.60
46:DB:161:ASP:O	46:DB:251:ARG:NH2	2.33	0.60
45:EK:91:GLN:HB3	45:EK:121:ARG:HH21	1.66	0.60
45:EK:384:ILE:HG22	45:EK:388:PHE:HE1	1.66	0.60
45:FM:265:ILE:HG22	45:FM:380:ASN:HD21	1.67	0.60
46:FN:406:MET:O	46:FN:409:THR:OG1	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GD:327:ASP:OD1	46:GD:328:GLU:N	2.34	0.60
45:GE:276:ILE:HD11	45:GE:280:LYS:HG3	1.84	0.60
45:GI:35:GLN:NE2	45:GI:36:MET:O	2.30	0.60
46:GJ:167:PHE:CE2	46:GJ:233:MET:HG2	2.36	0.60
45:HI:164:LYS:O	45:HI:166:LYS:NZ	2.35	0.60
45:HI:222:PRO:O	46:HJ:322:SER:HB2	2.02	0.60
46:HL:67:ASP:OD1	46:HL:68:LEU:N	2.34	0.60
46:HL:178:THR:HB	46:HL:181:GLU:HG3	1.83	0.60
45:HM:229:ARG:HH12	45:HM:233:GLN:HB2	1.67	0.60
46:HN:114:ASP:OD1	46:HN:115:SER:N	2.34	0.60
45:IG:292:THR:HG21	45:IG:331:SER:HB3	1.83	0.60
46:IH:5:VAL:HG12	46:IH:62:ARG:HD3	1.84	0.60
46:JB:198:GLU:HG2	46:JB:266:PHE:HE2	1.67	0.60
46:JJ:39:ASP:OD1	46:JJ:40:SER:N	2.34	0.60
46:JJ:114:ASP:OD1	46:JJ:115:SER:N	2.34	0.60
46:JL:73:MET:HA	46:JL:76:VAL:HG12	1.83	0.60
45:KK:396:ASP:OD1	45:KK:422:ARG:NE	2.23	0.60
45:MK:292:THR:HG21	45:MK:331:SER:HB2	1.83	0.60
45:OC:352:LYS:HZ3	46:OF:178:THR:HA	1.65	0.60
46:OF:164:MET:HE3	46:OF:196:ALA:HA	1.84	0.60
46:OH:83:GLN:O	46:PH:281:TYR:OH	2.20	0.60
45:OK:284:GLU:OE1	45:OK:286:LEU:HD22	2.02	0.60
45:OM:101:ASN:HA	45:OM:144:GLY:H	1.67	0.60
45:PE:209:ILE:HA	45:PE:212:ILE:HG22	1.83	0.60
46:QB:6:HIS:O	46:QB:63:ALA:HA	2.00	0.60
46:QB:86:ARG:NE	46:QB:87:PRO:HD2	2.17	0.60
46:QF:11:GLN:HE22	49:QF:501:GDP:H8	1.49	0.60
45:RE:367:ASP:OD1	45:RE:368:LEU:N	2.34	0.60
45:SG:280:LYS:HA	45:SG:283:HIS:CD2	2.34	0.60
45:SI:102:ASN:HD21	45:SI:411:GLU:HG3	1.66	0.60
46:TB:325:GLU:HA	46:TB:328:GLU:HG2	1.84	0.60
46:TF:31:ASP:OD1	46:TF:35:THR:N	2.34	0.60
46:UD:2:ARG:NH2	45:UE:70:LEU:O	2.34	0.60
45:UI:207:GLU:HB3	45:UI:304:LYS:HZ2	1.67	0.60
45:UK:173:PRO:O	45:UK:390:ARG:NH2	2.33	0.60
46:UL:10:GLY:O	46:UL:14:ASN:ND2	2.34	0.60
45:VE:101:ASN:HA	45:VE:144:GLY:H	1.65	0.60
45:VI:260:VAL:HB	46:VL:397:TRP:HZ2	1.67	0.60
45:VK:141:VAL:HG11	45:VK:172:TYR:HD1	1.66	0.60
45:WE:55:GLU:HG3	45:WE:57:GLY:H	1.67	0.60
46:WN:309:ARG:H	46:WN:372:THR:HG1	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0B:46:PHE:HE2	46:JH:77:ARG:HB2	1.65	0.60
3:0C:43:TYR:OH	46:DH:53:GLU:OE2	2.18	0.60
21:1L:427:ASN:HD22	45:CG:278:ALA:HB3	1.65	0.60
21:1L:901:LYS:H	46:CB:320:ARG:HH22	1.47	0.60
40:6G:174:GLN:HA	40:6G:177:ARG:HG2	1.84	0.60
45:AA:244:PHE:HB2	45:AA:356:ASN:HD21	1.66	0.60
45:AE:69:ASP:OD1	45:AE:70:LEU:N	2.34	0.60
45:AE:406:HIS:HA	45:AE:409:VAL:HG22	1.82	0.60
45:BG:69:ASP:OD1	45:BG:70:LEU:N	2.34	0.60
45:BG:265:ILE:HG22	45:BG:380:ASN:HD21	1.67	0.60
46:CB:324:LYS:HE2	45:CC:222:PRO:CD	2.31	0.60
46:CF:266:PHE:CE1	46:CF:370:ASN:HB2	2.37	0.60
45:CG:251:ASP:OD1	45:CG:252:ILE:N	2.33	0.60
45:CI:175:PRO:HB2	45:CI:176:GLN:OE1	2.02	0.60
45:CI:326:LYS:NZ	46:CJ:220:PRO:O	2.20	0.60
46:DB:52:ASN:OD1	46:DB:62:ARG:NH2	2.34	0.60
45:DI:242:LEU:HD11	45:DI:252:ILE:HG12	1.84	0.60
46:FB:207:LEU:HB3	46:FB:225:LEU:HD22	1.83	0.60
46:FH:68:LEU:HA	46:FH:93:GLY:H	1.67	0.60
45:GC:69:ASP:OD1	45:GC:70:LEU:N	2.33	0.60
45:HA:322:ASP:OD1	45:HA:373:ARG:NH1	2.34	0.60
46:HB:350:LYS:NZ	46:HB:351:SER:O	2.34	0.60
46:IH:103:LYS:HA	46:IH:107:THR:HG22	1.83	0.60
45:II:208:ALA:O	45:II:212:ILE:HD12	2.02	0.60
46:IJ:316:LEU:HD13	46:IJ:352:SER:HB2	1.84	0.60
45:IM:241:SER:HA	45:IM:356:ASN:HD21	1.65	0.60
45:JC:406:HIS:HA	45:JC:409:VAL:HG22	1.84	0.60
45:JK:272:TYR:HD2	45:JK:275:ILE:HD11	1.67	0.60
46:JL:222:TYR:O	46:JL:226:ASN:ND2	2.28	0.60
45:KG:167:LEU:HD23	45:KG:200:VAL:HB	1.84	0.60
46:LF:139:LEU:HD12	46:LF:170:VAL:HG12	1.84	0.60
45:ME:319:TYR:HB3	45:ME:323:VAL:HG11	1.84	0.60
46:MJ:67:ASP:O	46:MJ:92:PHE:HA	2.01	0.60
46:MN:67:ASP:O	46:MN:92:PHE:HA	2.01	0.60
45:NC:180:ALA:HA	46:ND:350:LYS:NZ	2.17	0.60
45:NE:325:PRO:HA	45:NE:328:VAL:HG22	1.83	0.60
45:NG:98:ASP:OD1	45:NG:99:ALA:N	2.35	0.60
45:NG:115:VAL:HG11	45:NG:152:LEU:HD23	1.83	0.60
46:OJ:179:VAL:HG13	46:OJ:180:VAL:HG13	1.84	0.60
45:OK:55:GLU:HG3	45:OK:57:GLY:H	1.65	0.60
45:OK:337:THR:O	45:OK:339:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:56:THR:HG23	45:PA:58:ALA:H	1.67	0.60
46:PN:285:THR:O	46:PN:289:LEU:HG	2.01	0.60
46:RB:200:MET:HG3	46:RB:266:PHE:HB2	1.83	0.60
46:RD:207:LEU:HB3	46:RD:225:LEU:HD22	1.84	0.60
46:RH:280:GLN:HG2	46:RH:281:TYR:HD1	1.67	0.60
46:RH:295:ASP:OD2	46:RH:297:LYS:NZ	2.34	0.60
46:SB:278:SER:HA	46:SB:281:TYR:HD2	1.67	0.60
46:SH:324:LYS:HZ1	45:SI:214:ARG:HB3	1.67	0.60
46:TF:46:ARG:NH2	45:TG:76:ASP:OD2	2.35	0.60
46:TJ:2:ARG:HD2	46:TJ:240:LEU:HD11	1.82	0.60
45:TM:226:ASN:HA	45:TM:229:ARG:HG2	1.83	0.60
46:WB:49:VAL:HG21	46:WB:241:ARG:HG2	1.83	0.60
46:WB:150:LEU:HB2	46:WB:154:LYS:NZ	2.16	0.60
46:WD:375:GLN:HE21	46:WD:419:VAL:HG13	1.65	0.60
46:WF:1:MET:N	46:WF:48:ASN:HD21	2.00	0.60
46:WH:58:ARG:HH12	46:WH:60:VAL:HB	1.67	0.60
46:WH:73:MET:HA	46:WH:76:VAL:HG12	1.83	0.60
45:WK:326:LYS:HE2	46:WN:220:PRO:HB2	1.83	0.60
46:WN:175:VAL:HG22	46:WN:205:GLU:HB3	1.83	0.60
23:2O:322:ARG:NH1	45:VE:364:PRO:HA	2.17	0.60
36:5C:65:THR:HG23	36:5C:68:ASP:H	1.67	0.60
37:5E:157:ARG:HH22	46:ND:37:HIS:HB2	1.66	0.60
37:5F:132:THR:OG1	46:OH:276:ARG:NH1	2.35	0.60
39:6F:84:ILE:O	46:JF:320:ARG:NH1	2.35	0.60
40:6G:231:ASN:HB2	40:6G:233:ARG:HH12	1.66	0.60
40:6G:281:THR:HG22	40:6G:284:LYS:NZ	2.17	0.60
45:AA:55:GLU:O	45:BA:285:GLN:NE2	2.35	0.60
46:AF:257:LEU:HD11	46:AF:314:SER:HB2	1.84	0.60
46:AN:294:PHE:HD2	46:AN:333:VAL:HG21	1.66	0.60
46:AN:309:ARG:NH2	46:AN:426:GLN:O	2.31	0.60
46:BH:137:HIS:NE2	46:BH:166:THR:OG1	2.33	0.60
45:BM:60:LYS:HZ1	45:CM:283:HIS:HA	1.67	0.60
45:CA:213:CYS:HA	45:CA:217:LEU:HD23	1.84	0.60
45:DA:109:THR:HG22	45:DA:110:ILE:HG23	1.84	0.60
46:DL:346:PRO:O	45:DM:394:LYS:NZ	2.35	0.60
46:EF:31:ASP:OD2	46:EF:35:THR:OG1	2.19	0.60
45:EK:328:VAL:O	45:EK:332:ILE:HD12	2.01	0.60
46:FF:166:THR:OG1	46:FF:199:CYS:SG	2.58	0.60
45:GI:326:LYS:NZ	46:GL:208:TYR:HB3	2.17	0.60
45:HA:292:THR:HG21	45:HA:331:SER:HB3	1.82	0.60
45:IA:69:ASP:OD1	45:IA:70:LEU:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JN:257:LEU:HD21	46:JN:314:SER:HB3	1.84	0.60
45:KG:222:PRO:CD	46:KH:324:LYS:HE2	2.23	0.60
46:KL:247:ASN:O	46:KL:252:LYS:NZ	2.32	0.60
46:LF:350:LYS:NZ	46:LF:352:SER:OG	2.33	0.60
45:LK:223:THR:HG22	45:LK:224:TYR:H	1.67	0.60
46:LN:31:ASP:OD1	46:LN:35:THR:N	2.33	0.60
45:NA:174:SER:OG	45:NA:206:ASN:OD1	2.19	0.60
45:NA:258:ASN:HD22	45:NA:352:LYS:HE3	1.66	0.60
46:NB:67:ASP:OD2	46:NB:72:THR:OG1	2.20	0.60
45:NE:222:PRO:HG2	46:NF:324:LYS:HB2	1.84	0.60
45:NI:328:VAL:O	45:NI:332:ILE:HG12	2.02	0.60
46:NN:179:VAL:HG13	46:NN:180:VAL:HG13	1.83	0.60
45:OE:250:VAL:HG13	45:OE:254:GLU:HB2	1.84	0.60
46:PB:135:ILE:HG13	46:PB:152:ILE:HD11	1.84	0.60
45:QG:67:PHE:HB2	45:QG:92:LEU:HD13	1.84	0.60
45:QG:287:SER:OG	45:QG:290:GLU:OE2	2.20	0.60
45:QI:292:THR:HG21	45:QI:331:SER:HB3	1.81	0.60
46:QJ:309:ARG:NH2	46:QJ:426:GLN:O	2.29	0.60
45:QK:133:GLN:HB3	45:QK:252:ILE:HD11	1.83	0.60
46:RB:178:THR:HB	46:RB:181:GLU:HG3	1.83	0.60
45:RG:81:GLY:O	45:RG:84:ARG:NH1	2.35	0.60
45:RG:223:THR:HG23	45:RG:225:THR:H	1.67	0.60
45:RG:270:SER:HB3	45:RG:378:ILE:HG22	1.83	0.60
45:SC:91:GLN:HG2	45:SC:121:ARG:HH21	1.67	0.60
45:SC:176:GLN:NE2	45:SC:207:GLU:OE2	2.35	0.60
46:SH:256:ASN:HD22	46:SH:350:LYS:HD2	1.66	0.60
46:SJ:101:TRP:HB2	46:SJ:184:ASN:HB3	1.84	0.60
46:SN:405:GLU:HA	46:SN:408:PHE:HD2	1.67	0.60
45:TC:326:LYS:HG2	46:TD:220:PRO:HD2	1.83	0.60
45:TI:271:SER:OG	45:TI:301:MET:HG3	2.01	0.60
45:UM:7:ILE:HD13	45:UM:153:LEU:HD21	1.82	0.60
46:UN:12:CYS:O	46:UN:16:ILE:HD12	2.02	0.60
46:VB:5:VAL:HG23	46:VB:62:ARG:HB3	1.84	0.60
46:VF:163:ILE:HG13	46:VF:251:ARG:HG2	1.84	0.60
45:VG:407:TRP:HH2	46:VH:254:ALA:HB1	1.67	0.60
45:WC:326:LYS:NZ	46:WF:220:PRO:O	2.31	0.60
45:WE:195:LEU:O	45:WE:264:ARG:NH2	2.35	0.60
27:2C:224:LYS:O	45:KI:221:ARG:NH2	2.30	0.59
1:3A:52:THR:HG21	34:6R:71:LYS:HB2	1.83	0.59
37:5G:29:LYS:HD2	37:5G:30:PRO:HD2	1.84	0.59
45:AA:322:ASP:OD1	45:AA:373:ARG:NH1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AB:178:THR:HB	46:AB:181:GLU:HG3	1.84	0.59
45:AG:116:ASP:OD1	45:AG:117:LEU:N	2.35	0.59
46:BF:164:MET:HB2	46:BF:197:ASP:H	1.66	0.59
46:BJ:6:HIS:NE2	46:BJ:8:GLN:OE1	2.34	0.59
45:BK:402:ARG:NH2	45:BK:415:GLU:OE2	2.34	0.59
45:BM:69:ASP:OD1	45:BM:70:LEU:N	2.35	0.59
45:CM:51:THR:HG23	45:CM:52:PHE:HD1	1.66	0.59
45:DE:11:GLN:HB2	45:DE:74:VAL:HG11	1.83	0.59
45:DM:242:LEU:HD11	45:DM:252:ILE:HG12	1.84	0.59
45:EG:33:ASP:HA	45:EG:85:GLN:HE21	1.67	0.59
45:FE:322:ASP:OD1	45:FE:373:ARG:NH1	2.34	0.59
46:FH:226:ASN:HD21	49:FH:501:GDP:HN1	1.48	0.59
46:FN:156:ARG:NH2	46:FN:159:TYR:O	2.30	0.59
46:GF:316:LEU:HD13	46:GF:352:SER:HB2	1.84	0.59
45:HC:296:PHE:HE1	45:HC:377:MET:HG3	1.67	0.59
45:HM:11:GLN:NE2	46:HN:247:ASN:OD1	2.34	0.59
46:IB:100:ASN:ND2	46:IB:401:GLU:OE1	2.35	0.59
45:IK:319:TYR:HB3	45:IK:323:VAL:HG21	1.84	0.59
46:IN:128:ASP:OD1	46:IN:129:CYS:N	2.35	0.59
46:IN:318:ARG:HD2	46:IN:354:CYS:HB3	1.83	0.59
46:JB:67:ASP:O	46:JB:92:PHE:HA	2.02	0.59
46:JB:212:PHE:HD1	46:JB:213:ARG:HH12	1.50	0.59
45:JC:90:GLU:HG3	45:JC:121:ARG:NH1	2.16	0.59
45:JI:88:HIS:HD2	45:KI:283:HIS:HB2	1.65	0.59
46:KB:207:LEU:HD13	46:KB:225:LEU:HB3	1.82	0.59
45:KC:15:GLN:NE2	47:KC:501:GTP:O6	2.34	0.59
46:KJ:222:TYR:O	46:KJ:226:ASN:ND2	2.35	0.59
45:NA:91:GLN:OE1	45:NA:91:GLN:N	2.35	0.59
45:NK:55:GLU:HG3	45:NK:57:GLY:H	1.67	0.59
45:OC:337:THR:O	45:OC:339:ARG:NH1	2.34	0.59
45:OE:169:PHE:HA	45:OE:202:VAL:HG22	1.83	0.59
46:OF:236:VAL:HG13	46:OF:237:THR:HG23	1.82	0.59
45:PC:260:VAL:HB	46:PF:397:TRP:CH2	2.36	0.59
46:PH:289:LEU:HD13	46:PH:365:VAL:HG23	1.84	0.59
46:PH:294:PHE:HE2	46:PH:333:VAL:HG11	1.67	0.59
46:PJ:67:ASP:OD1	46:PJ:68:LEU:N	2.35	0.59
46:QB:254:ALA:O	46:QB:258:ILE:HG12	2.01	0.59
45:QC:268:MET:HE1	45:QC:378:ILE:HG22	1.84	0.59
46:QF:273:LEU:O	46:QF:282:ARG:NH1	2.34	0.59
46:QJ:350:LYS:NZ	46:QJ:352:SER:OG	2.35	0.59
46:QL:293:MET:HG3	46:QL:294:PHE:HD2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QN:86:ARG:NH2	46:RN:278:SER:OG	2.34	0.59
45:RI:320:ARG:HD3	45:RI:360:PRO:HG3	1.82	0.59
46:RL:350:LYS:NZ	46:RL:352:SER:OG	2.35	0.59
46:RL:370:ASN:OD1	46:RL:422:TYR:OH	2.20	0.59
46:SB:229:VAL:HG12	46:SB:233:MET:HE2	1.84	0.59
46:SF:166:THR:OG1	46:SF:199:CYS:SG	2.55	0.59
46:SF:215:LEU:HD21	46:SF:273:LEU:HD12	1.83	0.59
46:SH:324:LYS:HD2	45:SI:210:TYR:HD2	1.67	0.59
45:SK:396:ASP:HA	45:SK:422:ARG:NH2	2.16	0.59
46:SL:31:ASP:OD1	46:SL:32:PRO:HD2	2.01	0.59
45:TA:256:GLN:HB2	45:TA:260:VAL:HB	1.84	0.59
46:TB:317:PHE:HE2	46:TB:326:VAL:HG13	1.67	0.59
45:TC:116:ASP:OD1	45:TC:117:LEU:N	2.35	0.59
45:TI:55:GLU:O	45:UI:285:GLN:NE2	2.35	0.59
45:TK:101:ASN:HA	45:TK:144:GLY:H	1.67	0.59
46:VF:135:ILE:HG13	46:VF:152:ILE:HD11	1.83	0.59
46:VJ:316:LEU:HD13	46:VJ:352:SER:HB2	1.83	0.59
45:VK:221:ARG:NH1	46:VL:325:GLU:OE1	2.35	0.59
45:VK:226:ASN:HA	45:VK:229:ARG:HD2	1.84	0.59
45:VM:179:THR:HG21	46:VN:246:LEU:HD22	1.83	0.59
46:WF:309:ARG:NH1	46:WF:343:GLU:OE1	2.35	0.59
15:0X:1:MET:N	45:MA:249:ASN:HD22	2.01	0.59
14:1V:137:ASN:OD1	46:LL:262:ARG:NH2	2.35	0.59
30:2H:219:ILE:O	45:MC:84:ARG:NH2	2.35	0.59
37:5E:46:LEU:HG	37:5E:47:GLU:H	1.67	0.59
46:AF:60:VAL:HG21	46:AF:86:ARG:HG2	1.83	0.59
46:AF:238:CYS:SG	46:AF:318:ARG:NE	2.75	0.59
45:AG:352:LYS:HA	46:AJ:177:ASP:O	2.02	0.59
46:AH:194:GLU:OE2	46:AH:195:ASN:ND2	2.35	0.59
46:BD:164:MET:HE3	46:BD:196:ALA:HA	1.84	0.59
45:BG:242:LEU:HD11	45:BG:252:ILE:HD11	1.84	0.59
45:BM:394:LYS:NZ	46:BN:347:ASN:OD1	2.35	0.59
45:CA:18:ASN:OD1	45:CA:19:ALA:N	2.35	0.59
45:CK:387:VAL:HG12	45:CK:390:ARG:HH12	1.66	0.59
46:DB:258:ILE:HG13	46:DB:266:PHE:HZ	1.68	0.59
46:DD:421:GLU:HA	46:DD:424:GLN:HG2	1.84	0.59
46:DH:114:ASP:OD1	46:DH:115:SER:N	2.34	0.59
46:DJ:128:ASP:OD1	46:DJ:129:CYS:N	2.34	0.59
46:DJ:139:LEU:HD11	46:DJ:168:SER:HB3	1.83	0.59
46:FF:33:THR:O	46:FF:58:ARG:NH1	2.34	0.59
46:HD:187:LEU:HD11	46:HD:408:PHE:HE1	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HD:209:ASP:OD2	46:HD:213:ARG:NH1	2.35	0.59
45:HK:98:ASP:O	45:HK:105:ARG:NH1	2.35	0.59
46:IB:156:ARG:NH1	46:IB:197:ASP:OD2	2.35	0.59
45:IC:260:VAL:HB	46:IF:397:TRP:HZ2	1.66	0.59
45:KA:276:ILE:HG23	45:KA:280:LYS:HB2	1.85	0.59
45:KA:398:MET:HE3	45:KA:403:ALA:HB3	1.83	0.59
46:KF:55:THR:OG1	46:LF:282:ARG:O	2.20	0.59
45:KG:116:ASP:OD1	45:KG:117:LEU:N	2.35	0.59
45:KM:259:LEU:O	45:KM:380:ASN:ND2	2.34	0.59
46:LN:7:ILE:HG22	46:LN:64:ILE:HB	1.83	0.59
45:ME:174:SER:HB3	45:ME:177:VAL:O	2.02	0.59
46:ML:172:SER:O	46:ML:176:SER:OG	2.19	0.59
45:NC:132:LEU:O	45:NC:164:LYS:NZ	2.32	0.59
46:NF:326:VAL:O	46:NF:330:MET:HG2	2.01	0.59
45:OA:358:GLN:NE2	45:OA:359:PRO:O	2.35	0.59
46:OF:262:ARG:NH1	46:OF:421:GLU:OE1	2.35	0.59
45:OI:55:GLU:HG3	45:OI:57:GLY:H	1.66	0.59
45:PC:75:ILE:HG13	45:PC:94:SER:HB2	1.84	0.59
45:PG:214:ARG:HG2	45:PG:215:ARG:NH1	2.17	0.59
46:QB:317:PHE:HE1	46:QB:326:VAL:HG13	1.66	0.59
45:QC:119:LEU:HG	45:QC:156:ARG:NE	2.17	0.59
46:QH:16:ILE:HD12	46:QH:229:VAL:HG11	1.83	0.59
46:QL:225:LEU:HD13	46:QL:228:LEU:HD12	1.84	0.59
45:RA:89:PRO:HD3	45:SA:280:LYS:HD2	1.85	0.59
46:RB:254:ALA:O	46:RB:258:ILE:HG12	2.02	0.59
45:SE:296:PHE:HE1	45:SE:377:MET:HG3	1.67	0.59
45:TC:387:VAL:HA	45:TC:390:ARG:HG2	1.84	0.59
45:TG:108:TYR:O	45:TG:112:LYS:NZ	2.34	0.59
46:TH:32:PRO:O	46:TH:83:GLN:NE2	2.35	0.59
45:TI:69:ASP:OD1	45:TI:70:LEU:N	2.35	0.59
46:TL:178:THR:HB	46:TL:181:GLU:HG3	1.84	0.59
45:VI:251:ASP:OD1	45:VI:252:ILE:N	2.34	0.59
46:VJ:200:MET:HG3	46:VJ:266:PHE:HB2	1.84	0.59
46:WJ:309:ARG:NH1	46:WJ:343:GLU:OE1	2.34	0.59
45:DC:88:HIS:HB3	45:DC:91:GLN:HG2	1.84	0.59
1:0A:109:ASP:OD2	46:AB:276:ARG:NH2	2.35	0.59
2:0B:237:GLN:HA	46:JL:276:ARG:HH12	1.66	0.59
4:0D:224:ARG:CZ	34:7R:493:GLY:HA3	2.31	0.59
21:1L:555:LYS:HE2	46:BF:320:ARG:NH1	2.18	0.59
21:1L:894:ARG:NH1	45:CC:365:GLY:H	2.01	0.59
16:3B:62:THR:HA	45:LG:84:ARG:HH22	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5H:74:ASP:O	37:5H:78:LEU:HB2	2.03	0.59
34:5R:463:SER:O	46:FJ:276:ARG:NH1	2.35	0.59
39:6F:39:LYS:HA	39:6F:60:LYS:HA	1.83	0.59
46:CD:290:THR:HA	46:CD:293:MET:HG3	1.84	0.59
46:CH:375:GLN:HG3	46:CH:379:LYS:HZ2	1.68	0.59
46:CL:336:LYS:HA	46:CL:336:LYS:HE3	1.83	0.59
45:EC:377:MET:HE1	45:EC:379:SER:HB3	1.84	0.59
46:GH:291:GLN:NE2	46:GH:295:ASP:OD2	2.35	0.59
45:HC:254:GLU:OE1	46:HF:99:ASN:ND2	2.35	0.59
46:HL:16:ILE:HD12	46:HL:229:VAL:HG11	1.84	0.59
45:IA:35:GLN:NE2	45:IA:36:MET:O	2.35	0.59
46:JJ:5:VAL:HG12	46:JJ:62:ARG:HD3	1.83	0.59
45:KK:88:HIS:CE1	45:KK:90:GLU:HG2	2.37	0.59
46:KL:31:ASP:OD1	46:KL:35:THR:N	2.28	0.59
45:KM:103:PHE:HB2	45:KM:186:ASN:HB3	1.84	0.59
45:LM:226:ASN:ND2	45:LM:367:ASP:OD2	2.35	0.59
46:MB:273:LEU:H	46:MB:292:GLN:HE22	1.50	0.59
45:MI:407:TRP:HZ2	46:MJ:258:ILE:HD11	1.66	0.59
45:MK:288:VAL:HG11	45:MK:327:ASP:HB3	1.84	0.59
45:MK:345:ASP:OD2	45:MK:346:TRP:N	2.36	0.59
45:NG:352:LYS:HE2	46:NJ:179:VAL:N	2.17	0.59
46:OH:282:ARG:NH1	46:OH:283:ALA:O	2.35	0.59
46:PD:86:ARG:HB3	46:PD:89:ASN:ND2	2.17	0.59
46:PH:73:MET:HA	46:PH:76:VAL:HG12	1.85	0.59
45:PK:292:THR:HG21	45:PK:331:SER:HB3	1.84	0.59
46:PN:207:LEU:HD22	46:PN:228:LEU:HD11	1.83	0.59
46:QB:1:MET:SD	46:QB:46:ARG:NH2	2.76	0.59
45:QC:15:GLN:NE2	47:QC:501:GTP:O6	2.35	0.59
46:QL:203:ASP:HB3	46:QL:301:CYS:HA	1.83	0.59
46:RJ:134:GLN:NE2	46:RJ:233:MET:SD	2.69	0.59
45:RK:312:TYR:CE1	45:RK:341:ILE:HG13	2.37	0.59
45:SC:322:ASP:OD1	45:SC:373:ARG:NE	2.35	0.59
45:SK:53:PHE:O	45:SK:64:ARG:NE	2.33	0.59
45:UE:89:PRO:HD2	45:VC:280:LYS:HE2	1.84	0.59
45:VC:167:LEU:HD13	45:VC:200:VAL:HB	1.83	0.59
45:VE:222:PRO:HG2	46:VF:324:LYS:HE2	1.85	0.59
45:WC:422:ARG:NH1	45:WC:422:ARG:O	2.35	0.59
45:WK:174:SER:HB2	45:WK:177:VAL:O	2.02	0.59
46:WN:190:HIS:ND1	46:WN:191:GLN:OE1	2.30	0.59
7:0G:101:TYR:CZ	46:JN:40:SER:HB3	2.37	0.59
9:1N:16:ILE:HG22	46:IJ:48:ASN:HD22	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:2W:280:ASP:O	45:LK:221:ARG:NH1	2.36	0.59
23:3O:239:ILE:HG23	46:UN:280:GLN:HG2	1.84	0.59
14:3V:113:ARG:HG2	45:LA:263:PRO:HB2	1.82	0.59
36:5D:36:ARG:HG2	36:5D:37:ASP:H	1.66	0.59
37:5G:157:ARG:NH1	46:NL:36:TYR:O	2.35	0.59
37:5H:44:ARG:O	45:OK:373:ARG:NH2	2.34	0.59
35:5S:154:SER:HB3	35:5S:157:ILE:HD12	1.83	0.59
45:AC:76:ASP:OD2	46:AD:46:ARG:NH2	2.34	0.59
46:AF:128:ASP:OD1	46:AF:129:CYS:N	2.35	0.59
46:AN:128:ASP:OD1	46:AN:129:CYS:N	2.36	0.59
45:BA:131:GLY:O	45:BA:133:GLN:NE2	2.35	0.59
46:BD:11:GLN:O	46:BD:15:GLN:HG2	2.03	0.59
46:BF:167:PHE:CE1	46:BF:233:MET:HG2	2.38	0.59
45:CG:208:ALA:HA	45:CG:304:LYS:NZ	2.18	0.59
45:CM:212:ILE:HD11	45:CM:300:ASN:HA	1.84	0.59
45:EK:55:GLU:HG3	45:EK:57:GLY:H	1.67	0.59
45:EK:241:SER:OG	45:EK:250:VAL:O	2.18	0.59
45:GI:221:ARG:HA	45:GI:221:ARG:HH11	1.66	0.59
45:HG:210:TYR:CD1	46:HH:324:LYS:HE3	2.37	0.59
46:HJ:237:THR:HG22	46:HJ:250:LEU:HD21	1.84	0.59
46:HL:377:MET:HA	46:HL:380:ARG:NH2	2.17	0.59
45:IM:239:THR:HG23	45:IM:243:ARG:NH1	2.17	0.59
45:JA:55:GLU:HG3	45:JA:57:GLY:H	1.68	0.59
46:JJ:376:GLU:HA	46:JJ:379:LYS:HE2	1.84	0.59
45:JK:420:GLU:OE2	45:NK:308:ARG:NH1	2.34	0.59
46:JN:254:ALA:O	46:JN:258:ILE:HG22	2.02	0.59
45:KC:288:VAL:HA	45:KC:291:ILE:HG12	1.83	0.59
45:KE:35:GLN:NE2	45:LE:282:TYR:OH	2.36	0.59
46:MJ:6:HIS:O	46:MJ:63:ALA:HA	2.02	0.59
46:MN:1:MET:HG3	46:MN:2:ARG:H	1.67	0.59
46:NB:289:LEU:HD11	46:NB:363:MET:HB3	1.83	0.59
46:NL:324:LYS:HG3	46:NL:325:GLU:N	2.17	0.59
45:OA:187:SER:O	45:OA:191:THR:HG23	2.02	0.59
45:OC:259:LEU:HD23	45:OC:268:MET:HG2	1.84	0.59
45:OK:7:ILE:HD13	45:OK:153:LEU:HD21	1.83	0.59
45:PI:88:HIS:O	45:PI:91:GLN:HG2	2.02	0.59
46:RB:257:LEU:HD11	46:RB:314:SER:HB2	1.84	0.59
45:RC:101:ASN:HA	45:RC:144:GLY:H	1.67	0.59
46:RD:350:LYS:NZ	46:RD:352:SER:OG	2.29	0.59
46:RJ:46:ARG:HH12	46:RJ:243:PRO:HD3	1.67	0.59
46:SN:73:MET:HA	46:SN:76:VAL:HG12	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TD:324:LYS:HZ1	45:TE:222:PRO:HG2	1.67	0.59
45:TM:294:SER:HA	45:TM:297:GLU:OE1	2.02	0.59
46:TN:6:HIS:O	46:TN:63:ALA:HA	2.02	0.59
46:TN:51:TYR:HB3	46:TN:59:TYR:HB3	1.84	0.59
46:UL:178:THR:HG22	46:UL:180:VAL:H	1.68	0.59
45:VA:54:SER:HB3	45:VA:64:ARG:HE	1.65	0.59
46:VN:119:VAL:HG23	46:VN:122:LYS:HE2	1.84	0.59
46:VN:221:THR:HG23	46:VN:224:ASP:H	1.67	0.59
45:WG:90:GLU:OE2	45:WG:121:ARG:NH2	2.28	0.59
46:WJ:139:LEU:HD11	46:WJ:168:SER:HB3	1.82	0.59
45:WK:152:LEU:O	45:WK:156:ARG:HG2	2.02	0.59
20:1K:249:GLU:HA	46:GB:276:ARG:HH21	1.67	0.59
13:2U:224:ARG:HH12	45:WG:40:LYS:HB2	1.66	0.59
14:2V:70:THR:OG1	46:MF:337:ASN:ND2	2.29	0.59
39:6F:90:GLU:O	39:6F:97:GLN:NE2	2.36	0.59
34:6R:555:ASN:O	34:6R:575:ARG:NH2	2.36	0.59
45:AE:254:GLU:OE2	46:AH:98:GLY:HA2	2.01	0.59
45:BC:326:LYS:HD3	46:BF:220:PRO:HG2	1.85	0.59
46:BH:226:ASN:HD21	49:BH:501:GDP:HN1	1.48	0.59
45:BI:222:PRO:HD2	46:BJ:324:LYS:HG3	1.83	0.59
46:CB:299:MET:HG3	46:CB:305:PRO:HG3	1.84	0.59
45:CC:55:GLU:HG3	45:CC:57:GLY:H	1.68	0.59
46:CD:158:GLU:HG3	46:CD:159:TYR:CD1	2.38	0.59
46:CD:258:ILE:HG22	46:CD:266:PHE:HZ	1.68	0.59
46:CF:260:PHE:HB2	46:CF:263:LEU:HD13	1.84	0.59
46:CL:113:ILE:HD13	46:CL:150:LEU:HD22	1.84	0.59
46:CN:83:GLN:O	46:DN:281:TYR:OH	2.19	0.59
45:DG:188:ILE:HD12	45:DG:425:LEU:HD11	1.85	0.59
46:DH:247:ASN:HD21	45:DI:73:THR:HG21	1.67	0.59
45:EM:152:LEU:O	45:EM:156:ARG:HG3	2.02	0.59
45:FA:222:PRO:O	46:FB:322:SER:OG	2.15	0.59
46:FD:64:ILE:HD12	46:FD:119:VAL:HG13	1.83	0.59
45:FI:33:ASP:O	45:FI:60:LYS:NZ	2.29	0.59
45:IA:260:VAL:HB	46:ID:397:TRP:HZ2	1.68	0.59
46:IB:254:ALA:O	46:IB:258:ILE:HG22	2.01	0.59
45:IC:181:VAL:HG13	45:IC:182:VAL:HG23	1.84	0.59
45:IK:48:ALA:HB1	45:IK:243:ARG:HB3	1.83	0.59
45:IM:174:SER:HB2	45:IM:177:VAL:O	2.02	0.59
46:IN:63:ALA:O	46:IN:89:ASN:ND2	2.31	0.59
45:JA:326:LYS:HE2	46:JD:208:TYR:HD1	1.66	0.59
45:JM:420:GLU:OE2	45:NM:308:ARG:HD3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KA:208:ALA:O	45:KA:212:ILE:HG12	2.02	0.59
46:KB:3:GLU:HG3	46:KB:62:ARG:NH1	2.18	0.59
46:KD:114:ASP:OD1	46:KD:115:SER:N	2.35	0.59
46:LF:27:GLU:OE2	46:LF:241:ARG:NH1	2.36	0.59
45:LG:292:THR:HG21	45:LG:331:SER:HB2	1.83	0.59
45:ME:74:VAL:O	45:ME:78:VAL:HG23	2.02	0.59
45:MI:214:ARG:HH22	46:MJ:324:LYS:HZ2	1.49	0.59
46:NB:254:ALA:O	46:NB:258:ILE:HG22	2.02	0.59
46:ND:101:TRP:CE3	46:ND:187:LEU:HD13	2.37	0.59
46:NJ:47:ILE:HG22	46:NJ:51:TYR:HB2	1.84	0.59
45:NK:178:SER:OG	45:NK:183:GLU:OE2	2.18	0.59
45:NK:251:ASP:OD1	45:NK:252:ILE:N	2.35	0.59
45:OA:51:THR:HG22	45:OA:52:PHE:HD1	1.67	0.59
45:OA:161:TYR:HB3	45:OA:164:LYS:HE2	1.82	0.59
45:OE:133:GLN:HB2	45:OE:252:ILE:HD11	1.85	0.59
45:OK:417:GLU:HA	45:OK:420:GLU:HG2	1.83	0.59
46:PB:207:LEU:HB3	46:PB:225:LEU:HD22	1.84	0.59
46:PB:334:GLN:HA	46:PB:341:PHE:HE2	1.67	0.59
45:PC:251:ASP:OD1	45:PC:252:ILE:N	2.36	0.59
45:PE:292:THR:HG21	45:PE:331:SER:HB2	1.83	0.59
45:PI:356:ASN:OD1	45:PI:357:TYR:N	2.36	0.59
45:PM:118:CYS:O	45:PM:122:ILE:HG12	2.02	0.59
45:QE:215:ARG:NH2	45:QE:299:ALA:O	2.35	0.59
46:QF:290:THR:HA	46:QF:293:MET:HG2	1.83	0.59
46:QH:114:ASP:OD1	46:QH:115:SER:N	2.36	0.59
46:QJ:414:ASN:HB3	46:QJ:415:MET:HE2	1.84	0.59
46:QL:221:THR:HG23	46:QL:224:ASP:H	1.68	0.59
46:QL:282:ARG:NH2	46:QL:292:GLN:OE1	2.32	0.59
46:RH:317:PHE:HD1	46:RH:365:VAL:HG22	1.67	0.59
45:RI:296:PHE:HE2	45:RI:377:MET:HG3	1.66	0.59
46:RJ:252:LYS:NZ	47:RK:501:GTP:O1G	2.35	0.59
45:RK:55:GLU:O	45:SK:285:GLN:NE2	2.24	0.59
46:SD:21:TRP:HA	46:SD:24:ILE:HG22	1.84	0.59
45:SE:367:ASP:OD1	45:SE:368:LEU:N	2.34	0.59
46:SH:316:LEU:HG	46:SH:352:SER:HB3	1.84	0.59
46:SJ:11:GLN:HB3	46:SJ:72:THR:HG21	1.85	0.59
46:TD:86:ARG:NH1	46:UD:278:SER:OG	2.35	0.59
46:TF:113:ILE:HD12	46:TF:154:LYS:HE3	1.83	0.59
45:UE:395:PHE:HZ	45:UE:418:PHE:HB3	1.67	0.59
45:UM:212:ILE:HD11	45:UM:300:ASN:HA	1.85	0.59
45:UM:319:TYR:HB3	45:UM:323:VAL:HG11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WC:152:LEU:O	45:WC:156:ARG:HG2	2.03	0.59
46:WD:130:LEU:O	46:WD:162:ARG:NH1	2.36	0.59
46:WF:108:GLU:HG3	46:WF:112:LEU:HD23	1.83	0.59
46:WF:317:PHE:HB2	46:WF:353:ILE:HD13	1.85	0.59
26:2W:189:ARG:HD2	45:KM:47:ASP:H	1.67	0.59
27:3C:224:LYS:O	45:KA:221:ARG:NH2	2.29	0.59
34:4R:89:ASP:OD1	45:AE:370:LYS:NZ	2.35	0.59
34:5R:268:GLU:HB3	46:DJ:280:GLN:HG2	1.84	0.59
45:AG:259:LEU:HD11	45:AG:316:SER:HB3	1.85	0.59
46:AH:163:ILE:HD11	46:AH:251:ARG:HG2	1.83	0.59
46:BL:203:ASP:O	46:BL:207:LEU:HD12	2.02	0.59
45:CA:259:LEU:HD13	45:CA:268:MET:HE2	1.85	0.59
46:CJ:266:PHE:CE1	46:CJ:370:ASN:HB2	2.38	0.59
46:CL:64:ILE:HA	46:CL:89:ASN:HB3	1.85	0.59
46:CN:16:ILE:HD12	46:CN:229:VAL:HG11	1.85	0.59
45:DK:288:VAL:HA	45:DK:291:ILE:HG12	1.84	0.59
46:EB:86:ARG:HH22	46:FB:282:ARG:HB2	1.68	0.59
46:EJ:52:ASN:OD1	46:EJ:62:ARG:NH2	2.35	0.59
45:EK:250:VAL:HG13	45:EK:254:GLU:HB2	1.85	0.59
46:EN:167:PHE:CE2	46:EN:233:MET:HG2	2.37	0.59
46:FF:222:TYR:O	46:FF:226:ASN:ND2	2.26	0.59
46:IF:309:ARG:NH2	46:IF:426:GLN:O	2.29	0.59
46:IH:209:ASP:OD1	46:IH:213:ARG:NH2	2.35	0.59
45:II:226:ASN:ND2	45:II:367:ASP:OD2	2.36	0.59
45:JA:325:PRO:HB2	46:JD:208:TYR:OH	2.03	0.59
46:KL:376:GLU:OE1	46:KL:380:ARG:NH1	2.35	0.59
45:LI:220:GLU:O	45:LI:221:ARG:HD3	2.03	0.59
45:MA:64:ARG:NH1	45:MA:129:CYS:SG	2.75	0.59
46:MD:202:ILE:HD11	46:MD:268:ILE:HD11	1.85	0.59
45:MG:9:VAL:HG12	45:MG:68:LEU:HB2	1.84	0.59
45:MG:76:ASP:OD1	45:MG:79:ARG:NH2	2.34	0.59
46:NB:148:GLY:O	46:NB:152:ILE:HG12	2.02	0.59
45:NK:48:ALA:HB1	45:NK:243:ARG:HB2	1.85	0.59
45:OC:276:ILE:HG23	45:OC:369:ALA:HB3	1.85	0.59
45:OE:99:ALA:HA	45:OE:105:ARG:HD2	1.83	0.59
46:OF:10:GLY:O	46:OF:14:ASN:ND2	2.36	0.59
45:OK:103:PHE:HB3	45:OK:408:TYR:HE2	1.66	0.59
46:ON:221:THR:HG23	46:ON:224:ASP:H	1.66	0.59
45:PA:101:ASN:HA	45:PA:144:GLY:H	1.66	0.59
46:PL:322:SER:OG	46:PL:325:GLU:OE2	2.20	0.59
46:QF:128:ASP:OD1	46:QF:129:CYS:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QN:54:ALA:HA	46:RN:283:ALA:HB2	1.83	0.59
45:RA:239:THR:HG23	45:RA:243:ARG:HH12	1.67	0.59
46:RB:52:ASN:OD1	46:RB:62:ARG:NH2	2.36	0.59
46:RB:276:ARG:NH2	46:RB:279:GLN:OE1	2.35	0.59
46:RJ:156:ARG:NH2	46:RJ:195:ASN:O	2.36	0.59
45:SA:188:ILE:HD12	45:SA:425:LEU:HD11	1.83	0.59
45:TE:77:GLU:HA	45:TE:80:THR:HG22	1.85	0.59
45:TE:141:VAL:HG11	45:TE:172:TYR:HD1	1.67	0.59
45:TM:326:LYS:HZ1	46:TN:219:THR:HA	1.68	0.59
46:UJ:258:ILE:HD12	46:UJ:264:HIS:HB3	1.83	0.59
45:VA:174:SER:HB3	45:VA:207:GLU:OE1	2.03	0.59
45:VA:251:ASP:OD1	45:VA:252:ILE:N	2.35	0.59
45:VE:294:SER:O	45:VE:300:ASN:ND2	2.23	0.59
46:VL:86:ARG:HH11	46:VL:86:ARG:HA	1.67	0.59
45:VM:188:ILE:HD12	45:VM:425:LEU:HD11	1.83	0.59
46:WJ:325:GLU:O	46:WJ:328:GLU:HG3	2.01	0.59
46:WN:377:MET:HA	46:WN:380:ARG:HG2	1.85	0.59
45:DC:292:THR:HG21	45:DC:331:SER:HB2	1.85	0.59
19:1J:117:GLU:OE1	45:IE:221:ARG:NH2	2.28	0.59
31:2I:25:ASN:ND2	45:FG:116:ASP:OD2	2.34	0.59
14:2V:33:PRO:HB3	45:ME:304:LYS:HD2	1.84	0.59
36:5B:54:ARG:NH2	45:KC:439:THR:O	2.34	0.59
35:5S:76:ILE:HG22	35:5S:89:TRP:NE1	2.18	0.59
45:AA:68:LEU:HD13	45:AA:93:ILE:HB	1.83	0.59
46:AD:114:ASP:OD1	46:AD:115:SER:N	2.36	0.59
46:AF:103:LYS:HA	46:AF:107:THR:HG22	1.83	0.59
46:AH:128:ASP:OD1	46:AH:129:CYS:N	2.36	0.59
45:BC:222:PRO:O	46:BD:324:LYS:NZ	2.27	0.59
46:BN:282:ARG:NH2	46:BN:292:GLN:OE1	2.32	0.59
45:CA:331:SER:O	45:CA:335:ILE:HG12	2.03	0.59
45:CG:288:VAL:HG21	45:CG:327:ASP:HB3	1.84	0.59
46:CJ:276:ARG:HA	46:CJ:279:GLN:OE1	2.03	0.59
46:CL:178:THR:HB	46:CL:181:GLU:HG2	1.85	0.59
46:DB:318:ARG:HB3	46:DB:357:PRO:HA	1.85	0.59
45:EC:238:LEU:HA	45:EC:318:MET:HE1	1.84	0.59
46:EJ:135:ILE:HG13	46:EJ:152:ILE:HD11	1.84	0.59
46:FB:282:ARG:HE	46:FB:283:ALA:H	1.50	0.59
46:FJ:22:GLU:HG2	46:FJ:81:PHE:HD2	1.66	0.59
46:GF:73:MET:HA	46:GF:76:VAL:HG12	1.83	0.59
45:GG:69:ASP:OD2	45:GG:71:GLU:N	2.34	0.59
46:GH:114:ASP:OD1	46:GH:115:SER:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GI:60:LYS:NZ	45:GI:85:GLN:O	2.35	0.59
45:IE:242:LEU:HD11	45:IE:252:ILE:HG13	1.84	0.59
46:IL:238:CYS:SG	46:IL:318:ARG:NH1	2.76	0.59
46:JB:276:ARG:HH21	46:JB:279:GLN:HE22	1.50	0.59
46:JN:153:SER:HB2	46:JN:191:GLN:HE21	1.68	0.59
45:LA:222:PRO:HD2	46:LB:324:LYS:NZ	2.16	0.59
45:LC:289:ALA:O	45:LC:293:ASN:ND2	2.27	0.59
46:ML:213:ARG:HB3	46:ML:297:LYS:HZ1	1.68	0.59
46:NB:156:ARG:NH2	46:NB:195:ASN:OD1	2.25	0.59
45:NM:269:LEU:HB2	45:NM:301:MET:HE1	1.83	0.59
46:NN:371:SER:O	46:NN:422:TYR:OH	2.17	0.59
45:OK:141:VAL:HG11	45:OK:172:TYR:HD1	1.68	0.59
45:PA:105:ARG:HH11	46:PB:251:ARG:NH1	2.01	0.59
45:QM:292:THR:HG21	45:QM:331:SER:HB3	1.85	0.59
45:RK:208:ALA:O	45:RK:212:ILE:HG12	2.03	0.59
45:SC:132:LEU:HD12	45:SC:132:LEU:H	1.68	0.59
46:SH:256:ASN:OD1	45:SI:181:VAL:HG22	2.03	0.59
46:TH:148:GLY:O	46:TH:152:ILE:HG12	2.02	0.59
46:TN:226:ASN:HD21	49:TN:501:GDP:HN1	1.49	0.59
46:UL:55:THR:HG23	46:VL:283:ALA:HA	1.83	0.59
46:UL:198:GLU:HG2	46:UL:266:PHE:HE2	1.66	0.59
45:VA:1:MET:SD	46:VD:94:GLN:NE2	2.76	0.59
45:VA:90:GLU:OE2	45:VA:121:ARG:NH2	2.35	0.59
45:VI:2:ARG:NH2	46:VL:70:PRO:HD2	2.16	0.59
46:WB:31:ASP:OD2	46:WB:37:HIS:ND1	2.35	0.59
45:WK:111:GLY:O	45:WK:115:VAL:HG13	2.01	0.59
4:0D:177:THR:HG21	46:EB:47:ILE:HG22	1.83	0.59
21:2L:357:ILE:HD12	34:6R:100:GLN:OE1	2.02	0.59
25:2R:505:TYR:HB2	45:EG:39:ASP:HB3	1.84	0.59
23:3O:406:ARG:HH12	46:UH:276:ARG:HD2	1.66	0.59
14:3V:122:LYS:HE2	46:LD:390:ARG:HH12	1.68	0.59
36:5B:145:ASN:O	36:5B:149:ASN:ND2	2.35	0.59
36:5D:82:ASP:HA	36:5D:85:ARG:HH11	1.68	0.59
34:5R:285:THR:O	34:5R:306:ARG:NH2	2.33	0.59
40:6G:150:GLU:O	46:VH:336:LYS:NZ	2.33	0.59
46:AD:19:LYS:HA	46:AD:22:GLU:OE1	2.02	0.59
46:AD:178:THR:HB	46:AD:181:GLU:HG3	1.84	0.59
45:AI:284:GLU:HB2	45:AI:286:LEU:HD22	1.85	0.59
45:BC:141:VAL:HG11	45:BC:172:TYR:CD1	2.37	0.59
46:BN:222:TYR:O	46:BN:226:ASN:ND2	2.31	0.59
45:CK:55:GLU:HG3	45:CK:57:GLY:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:68:LEU:HB3	46:DF:96:GLY:HA2	1.85	0.59
46:DL:375:GLN:HE22	46:DL:423:GLN:HB3	1.67	0.59
45:DM:70:LEU:HD13	45:DM:95:GLY:HA3	1.84	0.59
46:EF:222:TYR:O	46:EF:226:ASN:ND2	2.27	0.59
45:FK:254:GLU:OE1	45:FK:257:THR:OG1	2.18	0.59
45:GM:76:ASP:OD2	46:GN:46:ARG:NH2	2.35	0.59
46:HD:377:MET:SD	46:HD:380:ARG:NH2	2.76	0.59
45:HG:347:CYS:HA	46:HJ:388:MET:HE1	1.83	0.59
45:HI:257:THR:HA	46:HL:397:TRP:CZ3	2.37	0.59
46:HJ:67:ASP:O	46:HJ:92:PHE:HA	2.03	0.59
45:HM:60:LYS:NZ	45:HM:85:GLN:O	2.31	0.59
46:HN:268:ILE:HG22	46:HN:368:VAL:HG22	1.84	0.59
46:ID:330:MET:SD	46:ID:349:ILE:HG21	2.43	0.59
45:JC:88:HIS:CE1	45:JC:90:GLU:HG2	2.38	0.59
46:JN:161:ASP:OD2	46:JN:162:ARG:NH1	2.35	0.59
46:KL:156:ARG:HD2	46:KL:164:MET:HE3	1.85	0.59
46:KL:164:MET:N	46:KL:197:ASP:OD1	2.36	0.59
46:KL:407:GLU:HA	46:KL:410:GLU:HG3	1.84	0.59
46:MB:309:ARG:NH1	46:MB:339:SER:O	2.36	0.59
45:MC:338:LYS:NZ	45:MC:340:THR:OG1	2.36	0.59
46:MD:128:ASP:OD1	46:MD:129:CYS:N	2.36	0.59
45:ME:265:ILE:HG22	45:ME:380:ASN:HD21	1.68	0.59
46:MF:222:TYR:O	46:MF:226:ASN:ND2	2.25	0.59
45:MM:292:THR:HG21	45:MM:331:SER:HB3	1.85	0.59
46:ND:221:THR:HG23	46:ND:224:ASP:H	1.68	0.59
45:NI:254:GLU:OE2	46:NL:99:ASN:ND2	2.31	0.59
46:NL:309:ARG:N	46:NL:372:THR:OG1	2.32	0.59
46:NL:324:LYS:HG3	46:NL:325:GLU:H	1.68	0.59
45:OC:55:GLU:HG3	45:OC:57:GLY:H	1.67	0.59
46:OH:52:ASN:OD1	46:OH:62:ARG:NH2	2.35	0.59
46:PF:148:GLY:O	46:PF:152:ILE:HG12	2.01	0.59
45:QC:296:PHE:HE1	45:QC:377:MET:HG3	1.67	0.59
46:QF:67:ASP:O	46:QF:92:PHE:HA	2.03	0.59
46:RD:280:GLN:OE1	46:RD:280:GLN:N	2.33	0.59
46:SH:86:ARG:HD3	46:SH:87:PRO:HD2	1.83	0.59
46:SH:347:ASN:ND2	45:SI:176:GLN:O	2.35	0.59
46:SL:152:ILE:HA	46:SL:155:VAL:HG12	1.85	0.59
46:TB:55:THR:HG23	46:UB:283:ALA:HB1	1.84	0.59
46:TF:372:THR:HA	46:TF:422:TYR:HE2	1.68	0.59
45:VI:326:LYS:HG3	46:VL:208:TYR:HE2	1.66	0.59
45:VM:140:SER:OG	47:VM:501:GTP:O2B	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VN:238:CYS:SG	46:VN:318:ARG:NH1	2.76	0.59
45:WM:102:ASN:HB3	45:WM:105:ARG:HG2	1.84	0.59
46:WN:327:ASP:OD1	46:WN:328:GLU:N	2.36	0.59
45:DC:116:ASP:OD1	45:DC:117:LEU:N	2.36	0.59
31:2I:76:PRO:O	45:GE:338:LYS:HE2	2.03	0.59
25:3R:283:ARG:HE	45:CK:45:GLY:HA2	1.67	0.59
37:5H:39:ASP:O	45:OK:370:LYS:NZ	2.35	0.59
10:5Q:79:ILE:HD12	10:5Q:164:ARG:HB2	1.84	0.59
45:BA:287:SER:N	45:BA:290:GLU:OE1	2.27	0.59
46:BD:148:GLY:O	46:BD:152:ILE:HG12	2.03	0.59
45:BI:174:SER:HB3	45:BI:207:GLU:HG3	1.83	0.59
45:CM:276:ILE:HD11	45:CM:280:LYS:HG3	1.83	0.59
45:DA:296:PHE:HE2	45:DA:335:ILE:HG13	1.67	0.59
46:DB:328:GLU:HA	46:DB:331:LEU:HD12	1.84	0.59
46:DH:178:THR:HB	46:DH:181:GLU:HG3	1.83	0.59
46:DJ:3:GLU:OE2	46:DJ:127:CYS:HB2	2.03	0.59
46:DJ:67:ASP:O	46:DJ:92:PHE:HA	2.02	0.59
46:ED:121:ARG:NH2	46:FD:336:LYS:HE3	2.17	0.59
45:EG:244:PHE:HB2	45:EG:356:ASN:HD21	1.68	0.59
45:FC:210:TYR:CD1	46:FD:324:LYS:HD3	2.38	0.59
45:FM:206:ASN:OD1	47:FM:501:GTP:N2	2.36	0.59
45:FM:284:GLU:HG3	45:FM:286:LEU:HD22	1.83	0.59
46:GF:268:ILE:HG22	46:GF:368:VAL:HG22	1.83	0.59
47:GI:501:GTP:O1G	46:GJ:252:LYS:NZ	2.36	0.59
45:HA:348:PRO:HD2	46:HD:388:MET:HE1	1.85	0.59
45:HG:271:SER:OG	45:HG:301:MET:SD	2.59	0.59
45:HK:80:THR:O	45:HK:84:ARG:NH2	2.35	0.59
45:HK:101:ASN:HA	45:HK:144:GLY:H	1.66	0.59
45:HK:221:ARG:NH1	46:HL:322:SER:OG	2.35	0.59
45:IA:244:PHE:HB3	45:IA:358:GLN:NE2	2.18	0.59
45:IC:70:LEU:HD13	45:IC:95:GLY:HA3	1.84	0.59
45:IK:71:GLU:HB2	45:IK:98:ASP:HB2	1.84	0.59
46:JJ:3:GLU:OE2	46:JJ:3:GLU:N	2.26	0.59
45:JM:116:ASP:OD1	45:JM:117:LEU:N	2.36	0.59
45:JM:210:TYR:HE1	46:JN:324:LYS:HB3	1.66	0.59
45:LK:326:LYS:HZ3	46:LN:208:TYR:HB3	1.65	0.59
46:MF:392:LYS:HD2	46:MF:395:LEU:HD22	1.84	0.59
46:MN:31:ASP:OD1	46:MN:35:THR:N	2.33	0.59
46:OF:178:THR:HG22	46:OF:180:VAL:H	1.67	0.59
46:OL:316:LEU:HD23	46:OL:352:SER:HB2	1.85	0.59
46:PF:290:THR:HA	46:PF:293:MET:HG3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PG:352:LYS:HZ3	46:PJ:179:VAL:N	1.95	0.59
46:PL:86:ARG:HB3	46:PL:89:ASN:ND2	2.18	0.59
46:QB:54:ALA:HA	46:RB:283:ALA:HB2	1.85	0.59
45:QC:256:GLN:HG2	45:QC:260:VAL:HB	1.85	0.59
46:QF:386:THR:OG1	46:QF:390:ARG:NH1	2.36	0.59
45:QI:387:VAL:HG12	45:QI:390:ARG:NH2	2.18	0.59
45:QM:141:VAL:HG22	45:QM:187:SER:HA	1.85	0.59
45:QM:259:LEU:HD13	45:QM:268:MET:HE2	1.84	0.59
46:RJ:173:PRO:HG2	46:RJ:380:ARG:HE	1.67	0.59
46:RL:182:PRO:HD2	46:RL:388:MET:HE1	1.85	0.59
46:RN:178:THR:HB	46:RN:181:GLU:HG3	1.85	0.59
46:SB:10:GLY:O	46:SB:14:ASN:ND2	2.36	0.59
45:TA:323:VAL:HB	45:TA:373:ARG:HH12	1.68	0.59
45:TC:427:ALA:HA	45:TC:430:LYS:HG2	1.85	0.59
45:TI:108:TYR:HA	45:TI:112:LYS:HE3	1.85	0.59
46:TL:148:GLY:O	46:TL:152:ILE:HG12	2.03	0.59
46:TN:86:ARG:HE	46:TN:87:PRO:HD2	1.67	0.59
45:UA:256:GLN:HB2	45:UA:260:VAL:HB	1.85	0.59
46:UB:166:THR:HG21	46:UB:192:LEU:HD11	1.85	0.59
45:UE:258:ASN:HD22	46:UF:179:VAL:HG22	1.67	0.59
46:UL:200:MET:HE1	46:UL:268:ILE:N	2.17	0.59
45:UM:64:ARG:NH1	45:UM:129:CYS:SG	2.76	0.59
45:UM:251:ASP:OD1	45:UM:252:ILE:N	2.35	0.59
46:VD:7:ILE:HG22	46:VD:64:ILE:HB	1.85	0.59
46:VH:238:CYS:SG	46:VH:241:ARG:NH2	2.76	0.59
45:WI:172:TYR:HD1	45:WI:173:PRO:HD2	1.68	0.59
24:2P:439:HIS:CE1	45:TK:369:ALA:HB1	2.37	0.59
25:3R:395:VAL:O	46:DL:77:ARG:NH2	2.34	0.59
37:5G:213:TYR:HD2	46:LN:392:LYS:HG3	1.68	0.59
10:5Q:94:LEU:N	10:5Q:150:GLU:O	2.21	0.59
45:AA:156:ARG:HH11	45:AA:156:ARG:HA	1.68	0.59
46:BH:114:ASP:OD1	46:BH:115:SER:N	2.36	0.59
45:BK:352:LYS:NZ	46:BN:178:THR:HA	2.17	0.59
46:BN:282:ARG:NE	46:BN:288:GLU:OE2	2.24	0.59
45:CI:244:PHE:HB2	45:CI:356:ASN:HD21	1.68	0.59
45:DM:119:LEU:HD12	45:DM:123:ARG:HH12	1.67	0.59
45:EC:316:SER:HA	45:EC:352:LYS:HB3	1.85	0.59
46:EJ:319:GLY:HA2	46:EJ:357:PRO:HD3	1.84	0.59
45:EM:311:LYS:NZ	45:EM:312:TYR:O	2.36	0.59
45:FA:244:PHE:HB2	45:FA:356:ASN:HD21	1.67	0.59
45:FE:259:LEU:HD21	45:FE:316:SER:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:215:ARG:NH2	45:GA:300:ASN:OD1	2.35	0.59
45:GC:176:GLN:O	46:GD:347:ASN:ND2	2.36	0.59
45:GK:407:TRP:HZ2	46:GL:258:ILE:HD11	1.67	0.59
45:IE:116:ASP:OD1	45:IE:117:LEU:N	2.36	0.59
45:IG:209:ILE:HG13	45:IG:302:MET:HG2	1.85	0.59
46:JH:67:ASP:O	46:JH:92:PHE:HA	2.03	0.59
45:KA:338:LYS:HZ2	45:KA:340:THR:H	1.50	0.59
45:LG:397:LEU:HD23	46:LH:346:PRO:HD3	1.85	0.59
45:OA:51:THR:HG22	45:OA:52:PHE:CD1	2.38	0.59
46:OB:58:ARG:HH12	46:OB:84:LEU:HD13	1.67	0.59
45:QA:89:PRO:HD2	45:RA:280:LYS:HE2	1.85	0.59
45:QC:53:PHE:HB3	45:QC:61:HIS:HB3	1.85	0.59
46:QN:257:LEU:HD11	46:QN:314:SER:HB2	1.85	0.59
45:RG:20:CYS:HA	45:RG:232:ALA:HB1	1.84	0.59
46:RL:262:ARG:HH12	46:RL:418:LEU:HA	1.67	0.59
46:SD:324:LYS:HB2	45:SE:210:TYR:HE2	1.67	0.59
45:SE:55:GLU:HG3	45:SE:57:GLY:H	1.68	0.59
46:SH:99:ASN:HA	46:SH:142:GLY:H	1.67	0.59
45:SI:88:HIS:HB3	45:SI:91:GLN:HG3	1.85	0.59
45:SM:55:GLU:HG3	45:SM:57:GLY:H	1.67	0.59
45:SM:288:VAL:HG11	45:SM:327:ASP:HB3	1.84	0.59
45:TE:241:SER:OG	45:TE:250:VAL:O	2.20	0.59
46:TH:289:LEU:HD22	46:TH:363:MET:HG2	1.85	0.59
46:TL:411:ALA:HB1	46:TL:415:MET:HE3	1.84	0.59
46:UB:324:LYS:HE3	45:UC:222:PRO:HD2	1.83	0.59
46:UF:178:THR:HB	46:UF:181:GLU:HG3	1.85	0.59
45:UK:352:LYS:HE3	46:UL:179:VAL:HG13	1.84	0.59
45:VA:98:ASP:O	45:VA:105:ARG:NH1	2.36	0.59
45:VA:319:TYR:CD2	45:VA:375:VAL:HG12	2.38	0.59
45:VA:328:VAL:O	45:VA:332:ILE:HG12	2.03	0.59
46:VB:254:ALA:O	46:VB:258:ILE:HG22	2.02	0.59
45:VK:265:ILE:HG22	45:VK:432:TYR:HE1	1.68	0.59
46:WD:325:GLU:O	46:WD:329:GLN:HB2	2.01	0.59
45:WE:140:SER:OG	47:WE:501:GTP:O2B	2.21	0.59
46:WF:287:PRO:HG3	46:WF:329:GLN:HE22	1.68	0.59
45:WM:226:ASN:ND2	45:WM:367:ASP:OD2	2.36	0.59
4:0D:177:THR:OG1	46:EB:44:LEU:O	2.11	0.58
6:0F:75:ARG:HH12	46:ED:357:PRO:HD2	1.68	0.58
17:1F:59:LYS:HZ3	46:GL:56:GLY:N	2.00	0.58
4:2D:209:LYS:HA	34:5R:433:GLN:HE21	1.66	0.58
37:5F:89:LYS:HB2	37:5F:92:GLN:OE1	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:6Q:179:PRO:HA	10:6Q:182:LYS:HG2	1.85	0.58
46:AF:173:PRO:HD3	46:AF:380:ARG:HH21	1.67	0.58
46:AH:148:GLY:O	46:AH:152:ILE:HG12	2.01	0.58
46:AL:55:THR:HG23	46:BL:283:ALA:HA	1.85	0.58
45:AM:389:SER:O	45:AM:393:HIS:ND1	2.33	0.58
46:AN:257:LEU:HD11	46:AN:314:SER:HB3	1.84	0.58
45:BE:176:GLN:NE2	45:BE:177:VAL:HG23	2.18	0.58
46:BJ:42:LEU:HA	46:BJ:45:GLU:HG2	1.85	0.58
45:BK:244:PHE:HB2	45:BK:356:ASN:HD21	1.68	0.58
45:CC:205:ASP:OD2	45:CC:303:ALA:HA	2.03	0.58
45:CC:251:ASP:OD1	45:CC:252:ILE:N	2.36	0.58
45:CI:135:PHE:HE2	45:CI:157:LEU:HD12	1.67	0.58
45:DM:123:ARG:NH1	45:DM:160:ASP:OD2	2.36	0.58
45:EC:225:THR:HB	45:EC:229:ARG:NH1	2.18	0.58
45:EE:27:GLU:OE2	45:EE:361:THR:OG1	2.19	0.58
46:EH:8:GLN:NE2	46:EH:14:ASN:OD1	2.35	0.58
45:EI:90:GLU:OE1	45:FG:280:LYS:NZ	2.36	0.58
45:GE:325:PRO:HA	45:GE:328:VAL:HG12	1.84	0.58
45:GE:326:LYS:HD2	46:GH:208:TYR:HE1	1.68	0.58
45:GG:11:GLN:HG3	45:GG:74:VAL:HG11	1.85	0.58
46:GH:148:GLY:O	46:GH:152:ILE:HG12	2.03	0.58
46:HF:67:ASP:O	46:HF:92:PHE:HA	2.03	0.58
45:JA:426:ALA:O	45:JA:429:GLU:HG3	2.02	0.58
46:JD:248:SER:HA	46:JD:252:LYS:HD3	1.85	0.58
46:KB:10:GLY:O	46:KB:14:ASN:ND2	2.36	0.58
46:LN:177:ASP:OD2	49:LN:501:GDP:O3'	2.20	0.58
46:LN:316:LEU:HD13	46:LN:352:SER:HB2	1.85	0.58
46:MF:387:ALA:HA	46:MF:390:ARG:HH12	1.68	0.58
46:ML:309:ARG:NH2	46:ML:426:GLN:O	2.33	0.58
45:NA:256:GLN:HG2	46:ND:397:TRP:CH2	2.34	0.58
46:NB:3:GLU:OE2	46:NB:129:CYS:N	2.28	0.58
46:NJ:304:ASP:HB3	46:NJ:307:HIS:CE1	2.37	0.58
46:OB:83:GLN:O	46:PB:281:TYR:OH	2.16	0.58
46:OF:135:ILE:HG13	46:OF:152:ILE:HD11	1.84	0.58
45:PE:100:ALA:HA	46:PF:252:LYS:HG2	1.85	0.58
46:PJ:266:PHE:CE1	46:PJ:370:ASN:HB2	2.38	0.58
46:QF:19:LYS:O	46:QF:22:GLU:HG3	2.03	0.58
46:RJ:262:ARG:HG3	46:RJ:263:LEU:HD12	1.83	0.58
45:SI:75:ILE:HD11	45:SI:92:LEU:HB3	1.85	0.58
45:SK:206:ASN:OD1	47:SK:501:GTP:N2	2.36	0.58
46:SL:116:VAL:HA	46:SL:119:VAL:HG12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:119:VAL:HA	46:UN:122:LYS:HZ3	1.66	0.58
46:VB:73:MET:O	46:VB:77:ARG:HG2	2.02	0.58
45:VK:60:LYS:NZ	45:VK:61:HIS:O	2.36	0.58
45:WK:192:HIS:ND1	45:WK:424:ASP:OD1	2.36	0.58
8:1H:252:ARG:HE	45:HE:31:GLN:HA	1.67	0.58
19:1J:152:LYS:HG2	46:IH:227:HIS:ND1	2.18	0.58
14:2V:94:GLY:HA2	46:LF:262:ARG:HG2	1.84	0.58
33:4F:71:TYR:CE1	45:II:31:GLN:HA	2.38	0.58
35:4S:83:ALA:HA	46:WD:108:GLU:HG3	1.84	0.58
37:5F:44:ARG:CZ	45:OC:285:GLN:HG2	2.33	0.58
37:5H:17:ASN:HB2	37:5H:21:LEU:HD12	1.85	0.58
34:5R:97:CYS:HB3	34:5R:180:ILE:HD13	1.84	0.58
46:AB:374:ILE:HA	46:AB:377:MET:HE1	1.84	0.58
45:AG:280:LYS:NZ	45:MG:90:GLU:OE1	2.33	0.58
46:AH:350:LYS:NZ	46:AH:352:SER:OG	2.35	0.58
46:AL:114:ASP:OD1	46:AL:115:SER:N	2.36	0.58
46:AN:67:ASP:O	46:AN:92:PHE:HA	2.03	0.58
46:CB:179:VAL:HG13	46:CB:180:VAL:HG13	1.83	0.58
46:CJ:143:THR:OG1	49:CJ:501:GDP:O1B	2.21	0.58
46:CL:77:ARG:HH12	46:CL:83:GLN:HA	1.68	0.58
46:DJ:222:TYR:O	46:DJ:226:ASN:ND2	2.29	0.58
45:DK:174:SER:HB3	45:DK:177:VAL:O	2.01	0.58
46:EH:322:SER:OG	46:EH:325:GLU:OE1	2.21	0.58
46:FD:46:ARG:NH1	46:FD:240:LEU:O	2.34	0.58
46:FD:60:VAL:HG11	46:FD:86:ARG:NH2	2.18	0.58
45:FG:226:ASN:ND2	45:FG:367:ASP:OD2	2.37	0.58
45:FK:140:SER:OG	47:FK:501:GTP:O2B	2.21	0.58
45:GA:326:LYS:HD3	46:GD:208:TYR:HD1	1.67	0.58
46:GD:148:GLY:O	46:GD:152:ILE:HG12	2.03	0.58
45:GG:226:ASN:ND2	45:GG:367:ASP:OD2	2.36	0.58
45:GI:101:ASN:HA	45:GI:144:GLY:H	1.69	0.58
45:GK:328:VAL:O	45:GK:332:ILE:HG12	2.03	0.58
46:HN:285:THR:HB	46:HN:287:PRO:HD2	1.84	0.58
46:HN:378:PHE:HB3	46:HN:415:MET:HE1	1.84	0.58
46:HN:421:GLU:OE1	46:HN:424:GLN:NE2	2.35	0.58
46:IL:22:GLU:HG2	46:IL:81:PHE:CD1	2.38	0.58
46:JJ:19:LYS:HG3	46:JJ:226:ASN:HB3	1.85	0.58
46:JN:226:ASN:HA	46:JN:229:VAL:HG12	1.84	0.58
45:KA:47:ASP:HB2	45:KA:49:PHE:CE1	2.38	0.58
46:KB:207:LEU:HB3	46:KB:225:LEU:HD22	1.83	0.58
45:KE:174:SER:HB3	45:KE:177:VAL:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LB:334:GLN:HE22	46:LB:348:ASN:H	1.50	0.58
46:LJ:221:THR:HG23	46:LJ:224:ASP:H	1.67	0.58
46:MD:73:MET:SD	46:MD:92:PHE:HB3	2.42	0.58
45:ME:172:TYR:HH	45:ME:191:THR:HG1	1.48	0.58
46:ND:404:ASP:OD2	46:ND:406:MET:HG3	2.03	0.58
45:NK:27:GLU:HG2	45:NK:361:THR:HG21	1.84	0.58
46:NL:371:SER:O	46:NL:422:TYR:OH	2.21	0.58
46:OD:294:PHE:HE2	46:OD:333:VAL:HG11	1.66	0.58
45:PG:88:HIS:O	45:PG:91:GLN:HG2	2.03	0.58
46:QB:99:ASN:HA	46:QB:142:GLY:H	1.67	0.58
46:QB:149:THR:HA	46:QB:152:ILE:HD12	1.83	0.58
45:QK:136:LEU:HD13	45:QK:167:LEU:HB2	1.84	0.58
46:QL:99:ASN:HA	46:QL:142:GLY:H	1.67	0.58
46:RB:316:LEU:HD13	46:RB:352:SER:HB2	1.86	0.58
46:RL:222:TYR:O	46:RL:226:ASN:ND2	2.34	0.58
45:RM:328:VAL:HG11	45:RM:353:VAL:HG21	1.85	0.58
46:SD:107:THR:OG1	46:SD:108:GLU:OE1	2.20	0.58
46:SJ:8:GLN:NE2	46:SJ:13:GLY:O	2.35	0.58
45:TG:33:ASP:HA	45:TG:85:GLN:HE21	1.67	0.58
46:TL:97:ALA:HB3	46:TL:143:THR:HB	1.83	0.58
45:UA:244:PHE:HB2	45:UA:356:ASN:HD21	1.68	0.58
46:UB:198:GLU:HG2	46:UB:266:PHE:HE2	1.68	0.58
45:UC:107:HIS:HA	45:UC:152:LEU:HD11	1.84	0.58
46:UL:222:TYR:O	46:UL:226:ASN:ND2	2.25	0.58
46:UN:113:ILE:HD13	46:UN:150:LEU:HD22	1.85	0.58
45:VC:2:ARG:HA	45:VC:133:GLN:HE22	1.67	0.58
46:WD:371:SER:O	46:WD:422:TYR:OH	2.20	0.58
45:WE:407:TRP:HZ2	46:WF:258:ILE:HD11	1.68	0.58
19:1J:297:THR:OG1	45:IK:218:ASP:O	2.17	0.58
21:1L:781:MET:HA	46:BD:320:ARG:HH12	1.67	0.58
28:2F:79:CYS:HA	46:HF:332:ASN:HD21	1.68	0.58
23:2O:207:HIS:CD2	40:6G:83:GLU:HB2	2.38	0.58
36:5A:43:CYS:SG	46:KB:391:ARG:NE	2.75	0.58
36:5C:82:ASP:OD1	36:5C:85:ARG:NH2	2.36	0.58
45:AC:271:SER:HA	45:AC:302:MET:HG2	1.84	0.58
46:AN:387:ALA:HA	46:AN:390:ARG:NH1	2.18	0.58
45:CA:188:ILE:HD12	45:CA:425:LEU:HD11	1.85	0.58
45:CI:53:PHE:O	45:CI:64:ARG:NH2	2.36	0.58
46:CN:257:LEU:HD11	46:CN:314:SER:HB2	1.86	0.58
45:DA:76:ASP:OD1	45:DA:79:ARG:NH2	2.36	0.58
45:DA:89:PRO:HG2	45:EA:280:LYS:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DA:101:ASN:HA	45:DA:144:GLY:H	1.68	0.58
46:DB:16:ILE:HD12	46:DB:229:VAL:HG21	1.85	0.58
46:DL:166:THR:HG21	46:DL:192:LEU:HD11	1.84	0.58
46:EJ:238:CYS:SG	46:EJ:239:CYS:N	2.77	0.58
46:EJ:394:PHE:HA	46:EJ:397:TRP:CZ3	2.37	0.58
46:EL:221:THR:HG23	46:EL:224:ASP:H	1.68	0.58
46:FL:99:ASN:HA	46:FL:142:GLY:H	1.68	0.58
45:GA:11:GLN:NE2	46:GB:247:ASN:OD1	2.37	0.58
46:GD:222:TYR:O	46:GD:226:ASN:ND2	2.24	0.58
45:GG:11:GLN:NE2	46:GH:247:ASN:OD1	2.35	0.58
46:HB:273:LEU:H	46:HB:292:GLN:HE22	1.50	0.58
46:HD:262:ARG:NH1	46:HD:421:GLU:OE1	2.36	0.58
45:HE:88:HIS:CE1	45:HE:90:GLU:HG3	2.39	0.58
45:HE:180:ALA:HA	46:HF:350:LYS:NZ	2.17	0.58
46:HL:222:TYR:O	46:HL:226:ASN:ND2	2.21	0.58
46:ID:372:THR:HA	46:ID:422:TYR:HE2	1.67	0.58
45:JC:345:ASP:OD1	45:JC:346:TRP:N	2.35	0.58
46:JJ:31:ASP:OD1	46:JJ:35:THR:N	2.30	0.58
46:JJ:152:ILE:HG23	46:JJ:164:MET:HE1	1.84	0.58
45:JM:107:HIS:HA	45:JM:152:LEU:HD11	1.84	0.58
46:KJ:167:PHE:CZ	46:KJ:233:MET:HG3	2.38	0.58
45:KK:195:LEU:HD21	45:KK:264:ARG:HH12	1.68	0.58
46:LF:7:ILE:HG22	46:LF:64:ILE:HB	1.84	0.58
46:LH:52:ASN:OD1	46:LH:62:ARG:NH2	2.36	0.58
46:LH:350:LYS:HD3	46:LH:351:SER:N	2.17	0.58
46:LJ:86:ARG:HD2	46:LJ:88:ASP:HB2	1.85	0.58
46:LL:7:ILE:HG22	46:LL:64:ILE:HB	1.84	0.58
45:MG:408:TYR:HB3	45:MG:413:MET:HE2	1.84	0.58
45:MI:116:ASP:OD1	45:MI:117:LEU:N	2.36	0.58
46:NJ:36:TYR:CE1	46:NJ:44:LEU:HD21	2.38	0.58
45:NM:221:ARG:NE	46:NN:325:GLU:OE1	2.34	0.58
46:NN:292:GLN:NE2	46:NN:298:ASN:OD1	2.35	0.58
46:OB:229:VAL:O	46:OB:233:MET:HG2	2.04	0.58
46:OB:240:LEU:HD11	46:OB:249:ASP:HA	1.84	0.58
46:OD:86:ARG:HH22	46:PD:282:ARG:HA	1.67	0.58
45:OI:167:LEU:HD13	45:OI:200:VAL:HB	1.84	0.58
46:OJ:86:ARG:HG2	46:OJ:89:ASN:ND2	2.18	0.58
45:OM:54:SER:HB3	45:OM:64:ARG:HH21	1.67	0.58
46:PB:100:ASN:ND2	46:PB:401:GLU:OE1	2.36	0.58
45:PC:244:PHE:HB2	45:PC:356:ASN:HD21	1.68	0.58
45:PE:254:GLU:HG3	46:PH:98:GLY:HA2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QF:3:GLU:HG2	46:QF:62:ARG:HH12	1.68	0.58
46:QF:164:MET:HB3	46:QF:197:ASP:H	1.67	0.58
46:QL:207:LEU:HB3	46:QL:225:LEU:CD1	2.34	0.58
46:RB:183:TYR:O	46:RB:187:LEU:HG	2.03	0.58
46:RF:138:SER:HA	46:RF:169:VAL:HB	1.86	0.58
46:RH:131:GLN:HE22	46:RH:249:ASP:HB2	1.68	0.58
45:RK:155:GLU:OE2	45:RK:193:SER:OG	2.19	0.58
46:SB:89:ASN:ND2	46:SB:123:GLU:OE1	2.36	0.58
46:SF:313:ALA:HB1	46:SF:367:PHE:HE1	1.67	0.58
46:SJ:316:LEU:HD13	46:SJ:352:SER:HB2	1.85	0.58
45:SK:78:VAL:HA	45:SK:84:ARG:NH2	2.18	0.58
45:SK:244:PHE:HB2	45:SK:356:ASN:HD21	1.67	0.58
46:SN:222:TYR:O	46:SN:226:ASN:ND2	2.27	0.58
45:TE:69:ASP:OD1	45:TE:70:LEU:N	2.35	0.58
46:TF:8:GLN:HE22	46:TF:17:GLY:HA3	1.68	0.58
46:TJ:215:LEU:HD11	46:TJ:273:LEU:HD12	1.86	0.58
46:TJ:405:GLU:HA	46:TJ:408:PHE:HD2	1.68	0.58
46:UF:247:ASN:ND2	45:UG:71:GLU:OE1	2.35	0.58
46:UF:275:SER:O	46:UF:279:GLN:NE2	2.36	0.58
46:UN:289:LEU:HD13	46:UN:365:VAL:HG23	1.85	0.58
46:VF:316:LEU:HD13	46:VF:352:SER:HB2	1.84	0.58
45:WC:221:ARG:NH2	46:WD:322:SER:H	1.99	0.58
46:WJ:3:GLU:HG3	46:WJ:49:VAL:HA	1.85	0.58
45:CE:335:ILE:HA	45:CE:338:LYS:NZ	2.19	0.58
45:DC:268:MET:SD	45:DC:380:ASN:HB3	2.43	0.58
7:1G:172:TYR:OH	45:KA:1:MET:O	2.16	0.58
40:6G:95:VAL:HG13	45:UK:96:LYS:HZ1	1.66	0.58
40:6G:138:LYS:HD2	45:VG:341:ILE:HD11	1.86	0.58
47:AA:501:GTP:O1G	46:AB:252:LYS:NZ	2.27	0.58
46:AH:207:LEU:HB3	46:AH:225:LEU:HD22	1.85	0.58
45:BA:426:ALA:HB1	45:BA:430:LYS:NZ	2.18	0.58
46:BD:316:LEU:HD13	46:BD:352:SER:HB3	1.86	0.58
45:BE:260:VAL:HB	46:BH:397:TRP:HZ2	1.67	0.58
45:BG:420:GLU:HA	45:BG:423:GLU:HG3	1.85	0.58
45:CA:223:THR:HG23	45:CA:225:THR:H	1.68	0.58
46:CH:318:ARG:HB3	46:CH:357:PRO:HA	1.86	0.58
45:DA:298:PRO:HA	45:DA:301:MET:HE1	1.86	0.58
45:DI:9:VAL:HG12	45:DI:68:LEU:HB2	1.84	0.58
45:EA:226:ASN:ND2	45:EA:367:ASP:OD2	2.36	0.58
45:EM:244:PHE:HB2	45:EM:356:ASN:HD21	1.68	0.58
46:FB:31:ASP:OD2	46:FB:37:HIS:ND1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FB:135:ILE:HG13	46:FB:152:ILE:HD11	1.85	0.58
46:FH:260:PHE:HB2	46:FH:263:LEU:HD13	1.85	0.58
46:FN:139:LEU:HD12	46:FN:170:VAL:HG22	1.85	0.58
46:GB:73:MET:HA	46:GB:76:VAL:HG12	1.85	0.58
46:GL:55:THR:HG23	46:HL:283:ALA:HA	1.85	0.58
46:HB:318:ARG:HB3	46:HB:357:PRO:HA	1.86	0.58
46:HD:309:ARG:NH2	46:HD:426:GLN:O	2.30	0.58
45:IE:244:PHE:HB2	45:IE:356:ASN:HD21	1.67	0.58
45:JA:251:ASP:OD1	45:JA:252:ILE:N	2.37	0.58
45:JC:75:ILE:HG22	45:JC:79:ARG:HE	1.67	0.58
46:JD:326:VAL:O	46:JD:330:MET:HG2	2.03	0.58
46:JH:45:GLU:OE1	46:JH:46:ARG:HG2	2.03	0.58
45:KE:214:ARG:HH21	45:KE:215:ARG:HH21	1.50	0.58
45:LM:55:GLU:OE2	45:LM:61:HIS:NE2	2.36	0.58
45:ME:288:VAL:HG11	45:ME:327:ASP:HB3	1.83	0.58
45:MK:55:GLU:OE2	45:MK:61:HIS:NE2	2.37	0.58
45:NA:372:MET:HG2	45:NA:373:ARG:HD3	1.84	0.58
45:NC:88:HIS:CD2	45:NC:90:GLU:HG3	2.39	0.58
45:NI:2:ARG:HH21	45:NI:243:ARG:HA	1.68	0.58
46:NL:258:ILE:HD12	46:NL:264:HIS:HB3	1.85	0.58
46:OB:405:GLU:OE2	46:OB:409:THR:OG1	2.22	0.58
45:OG:140:SER:OG	47:OG:501:GTP:O2B	2.20	0.58
45:PM:108:TYR:CE2	45:PM:413:MET:HB3	2.38	0.58
46:PN:274:THR:HG21	46:PN:282:ARG:HH21	1.69	0.58
46:QD:67:ASP:O	46:QD:92:PHE:HA	2.03	0.58
46:QF:11:GLN:NE2	49:QF:501:GDP:O1A	2.29	0.58
46:QN:207:LEU:HB3	46:QN:225:LEU:HD22	1.84	0.58
46:RD:245:GLN:O	45:RE:11:GLN:NE2	2.36	0.58
45:RK:67:PHE:HB2	45:RK:92:LEU:HG	1.84	0.58
45:SM:116:ASP:OD1	45:SM:117:LEU:N	2.36	0.58
46:TJ:10:GLY:O	46:TJ:14:ASN:ND2	2.36	0.58
46:UB:350:LYS:NZ	46:UB:351:SER:O	2.36	0.58
45:UM:77:GLU:HA	45:UM:80:THR:HG22	1.85	0.58
46:UN:99:ASN:HA	46:UN:142:GLY:H	1.67	0.58
46:VH:49:VAL:HG11	46:VH:241:ARG:HG2	1.85	0.58
45:WA:215:ARG:NH1	45:WA:299:ALA:HB1	2.19	0.58
46:WB:67:ASP:O	46:WB:92:PHE:HA	2.02	0.58
45:WE:212:ILE:HD11	45:WE:300:ASN:HA	1.84	0.58
45:WI:70:LEU:HD13	45:WI:95:GLY:HA3	1.85	0.58
12:1T:65:ARG:HH21	46:MF:111:GLU:N	1.99	0.58
36:5B:167:LYS:NZ	45:NG:278:ALA:O	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:6Q:84:LYS:HZ1	10:6Q:127:GLU:HA	1.68	0.58
45:AI:101:ASN:HA	45:AI:144:GLY:H	1.68	0.58
46:AN:58:ARG:HD2	46:BN:280:GLN:HE22	1.68	0.58
46:BB:5:VAL:HG12	46:BB:62:ARG:HD3	1.85	0.58
46:BL:273:LEU:H	46:BL:292:GLN:HE22	1.50	0.58
45:BM:76:ASP:OD1	45:BM:79:ARG:NH2	2.37	0.58
45:CA:60:LYS:NZ	45:CA:86:LEU:O	2.29	0.58
46:CB:44:LEU:HD22	46:CB:47:ILE:HD13	1.85	0.58
45:DM:254:GLU:HG2	46:DN:98:GLY:HA2	1.85	0.58
46:EB:330:MET:HA	46:EB:333:VAL:HG12	1.84	0.58
45:EC:206:ASN:HA	45:EC:209:ILE:HG12	1.85	0.58
45:FA:75:ILE:HD11	45:FA:92:LEU:HB3	1.84	0.58
45:FC:7:ILE:HB	45:FC:137:VAL:HG12	1.85	0.58
45:FE:71:GLU:OE1	46:FF:247:ASN:ND2	2.36	0.58
45:GA:294:SER:O	45:GA:300:ASN:ND2	2.30	0.58
46:GB:48:ASN:O	46:GB:62:ARG:NH2	2.37	0.58
45:GC:288:VAL:HA	45:GC:291:ILE:HG12	1.86	0.58
45:GG:109:THR:O	45:GG:112:LYS:NZ	2.35	0.58
45:GM:188:ILE:HD12	45:GM:425:LEU:HD11	1.84	0.58
46:GN:135:ILE:HG13	46:GN:152:ILE:HD11	1.85	0.58
45:HC:260:VAL:HB	46:HF:397:TRP:CZ2	2.38	0.58
46:IH:135:ILE:HG13	46:IH:152:ILE:HD11	1.85	0.58
45:II:292:THR:HG21	45:II:331:SER:HB3	1.84	0.58
45:IM:140:SER:OG	47:IM:501:GTP:O2B	2.22	0.58
46:JH:260:PHE:HB2	46:JH:263:LEU:HD13	1.86	0.58
45:JM:90:GLU:OE1	45:KM:280:LYS:NZ	2.30	0.58
45:KA:152:LEU:O	45:KA:156:ARG:HG2	2.03	0.58
45:KE:227:LEU:O	45:KE:231:ILE:HG12	2.03	0.58
46:KN:332:ASN:OD1	46:KN:336:LYS:NZ	2.21	0.58
46:MF:114:ASP:OD1	46:MF:115:SER:N	2.36	0.58
45:NA:116:ASP:OD1	45:NA:117:LEU:N	2.34	0.58
46:NB:203:ASP:OD2	46:NB:205:GLU:HG2	2.04	0.58
45:NG:326:LYS:NZ	46:NJ:218:THR:O	2.24	0.58
46:OD:200:MET:HE2	46:OD:268:ILE:HG23	1.84	0.58
46:OD:333:VAL:HA	46:OD:336:LYS:HG2	1.86	0.58
46:OF:12:CYS:O	46:OF:16:ILE:HG12	2.03	0.58
45:OK:350:GLY:HA2	46:ON:179:VAL:HG23	1.84	0.58
46:ON:143:THR:O	46:ON:147:MET:HG2	2.03	0.58
46:QF:346:PRO:HG2	45:QG:394:LYS:HZ2	1.67	0.58
46:QH:105:HIS:CE1	46:QH:150:LEU:HD13	2.38	0.58
46:QL:164:MET:SD	46:QL:197:ASP:N	2.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RD:311:LEU:N	46:RD:370:ASN:O	2.32	0.58
46:RF:73:MET:HA	46:RF:76:VAL:HG12	1.85	0.58
45:RI:123:ARG:NH2	45:RI:160:ASP:OD1	2.36	0.58
45:RK:140:SER:OG	47:RK:501:GTP:O2B	2.13	0.58
46:SF:51:TYR:HB3	46:SF:59:TYR:HB3	1.85	0.58
45:TE:353:VAL:HG12	46:TF:177:ASP:OD1	2.03	0.58
45:TG:133:GLN:HB3	45:TG:252:ILE:HD11	1.85	0.58
46:TJ:289:LEU:O	46:TJ:293:MET:HG3	2.04	0.58
46:TL:145:SER:HB2	46:TL:188:SER:HB3	1.85	0.58
45:UG:251:ASP:OD1	45:UG:252:ILE:N	2.34	0.58
45:UG:399:TYR:O	45:UG:402:ARG:NH1	2.37	0.58
46:UH:64:ILE:HD12	46:UH:120:VAL:HG12	1.86	0.58
45:UK:319:TYR:HB3	45:UK:323:VAL:HG11	1.84	0.58
46:UN:73:MET:HA	46:UN:76:VAL:HG12	1.86	0.58
46:VB:178:THR:HB	46:VB:181:GLU:HG3	1.85	0.58
46:VF:372:THR:HA	46:VF:422:TYR:HE2	1.67	0.58
45:WC:260:VAL:HB	46:WF:397:TRP:CZ2	2.38	0.58
45:WE:326:LYS:HE2	45:WE:326:LYS:HA	1.84	0.58
46:WN:31:ASP:OD1	46:WN:35:THR:N	2.35	0.58
46:WN:248:SER:HA	46:WN:252:LYS:HD2	1.84	0.58
45:DC:11:GLN:HB2	45:DC:74:VAL:HG11	1.85	0.58
45:DC:318:MET:HG2	45:DC:376:CYS:SG	2.44	0.58
2:0B:22:LEU:O	46:JH:276:ARG:NH1	2.37	0.58
37:5F:116:TYR:O	37:5F:118:PRO:HD3	2.02	0.58
39:6F:85:THR:HG22	39:6F:88:MET:HG2	1.84	0.58
46:AB:410:GLU:O	46:AB:414:ASN:ND2	2.37	0.58
46:AD:105:HIS:CE1	46:AD:150:LEU:HD12	2.37	0.58
45:CK:334:THR:O	45:CK:338:LYS:HG3	2.04	0.58
46:DF:171:PRO:HB2	46:DF:181:GLU:OE2	2.03	0.58
45:EC:349:THR:OG1	46:ED:176:SER:OG	2.17	0.58
45:EE:68:LEU:HD13	45:EE:93:ILE:HB	1.85	0.58
46:FF:237:THR:HG23	46:FF:241:ARG:NH1	2.19	0.58
46:FL:52:ASN:OD1	46:FL:62:ARG:NH2	2.37	0.58
46:FL:139:LEU:HD13	46:FL:168:SER:HB3	1.85	0.58
45:GA:407:TRP:HH2	46:GB:258:ILE:HB	1.69	0.58
46:GB:249:ASP:OD1	46:GB:252:LYS:N	2.33	0.58
46:GH:371:SER:O	46:GH:422:TYR:OH	2.18	0.58
46:ID:316:LEU:HB2	46:ID:366:THR:HG22	1.84	0.58
45:IE:5:ILE:HD12	45:IE:135:PHE:HE2	1.69	0.58
46:JD:36:TYR:CZ	46:JD:44:LEU:HD11	2.39	0.58
45:JG:28:HIS:NE2	45:JG:48:ALA:O	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JJ:274:THR:HG21	46:JJ:282:ARG:HD3	1.83	0.58
46:JL:183:TYR:HB3	46:JL:398:TYR:HE2	1.69	0.58
45:JM:113:GLU:OE2	45:JM:113:GLU:N	2.31	0.58
46:KF:52:ASN:OD1	46:KF:62:ARG:NH2	2.36	0.58
46:MJ:31:ASP:OD1	46:MJ:37:HIS:NE2	2.36	0.58
46:MN:309:ARG:NH2	46:MN:426:GLN:O	2.27	0.58
46:ND:19:LYS:HG3	46:ND:226:ASN:HB3	1.84	0.58
46:NF:31:ASP:OD1	46:NF:35:THR:N	2.34	0.58
46:NH:403:MET:HB2	46:NH:407:GLU:OE1	2.03	0.58
45:NI:7:ILE:HB	45:NI:137:VAL:HG12	1.85	0.58
45:OA:121:ARG:HD2	45:OA:124:LYS:HZ1	1.69	0.58
46:OB:262:ARG:NH1	46:OB:421:GLU:OE1	2.37	0.58
46:OD:237:THR:OG1	46:OD:241:ARG:NH2	2.37	0.58
46:OD:249:ASP:H	46:OD:252:LYS:HE3	1.67	0.58
45:OK:4:VAL:HG11	45:OK:136:LEU:HD23	1.84	0.58
46:ON:306:ARG:HA	46:ON:340:TYR:HE1	1.69	0.58
45:PA:99:ALA:HB3	45:PA:145:THR:HB	1.86	0.58
45:PA:342:GLN:NE2	45:PA:343:PHE:O	2.37	0.58
46:PD:289:LEU:O	46:PD:293:MET:HG3	2.03	0.58
45:PG:174:SER:HB2	45:PG:177:VAL:O	2.04	0.58
46:PL:268:ILE:HG22	46:PL:368:VAL:HG22	1.85	0.58
45:QC:390:ARG:HB3	45:QC:394:LYS:NZ	2.19	0.58
46:QH:86:ARG:HH22	46:RH:282:ARG:HA	1.69	0.58
46:QH:208:TYR:CE1	46:QH:225:LEU:HD11	2.38	0.58
45:RC:140:SER:OG	47:RC:501:GTP:O2B	2.18	0.58
46:RL:217:LEU:HD23	46:RL:219:THR:H	1.67	0.58
46:RN:257:LEU:HD11	46:RN:314:SER:HB2	1.86	0.58
46:SD:6:HIS:O	46:SD:63:ALA:HA	2.02	0.58
45:SE:27:GLU:HB3	45:SE:361:THR:HG21	1.86	0.58
46:SH:114:ASP:OD1	46:SH:115:SER:N	2.36	0.58
45:SK:82:THR:HG23	45:SK:83:TYR:CD1	2.39	0.58
45:SM:108:TYR:HA	45:SM:112:LYS:HE3	1.85	0.58
46:TD:222:TYR:O	46:TD:226:ASN:ND2	2.25	0.58
46:TF:55:THR:HG23	46:UF:283:ALA:HA	1.85	0.58
45:TG:109:THR:HG22	45:TG:110:ILE:HG23	1.83	0.58
46:TJ:2:ARG:NH2	45:TK:72:PRO:HD2	2.19	0.58
46:UJ:12:CYS:O	46:UJ:16:ILE:HD12	2.03	0.58
45:WA:140:SER:OG	47:WA:501:GTP:O2B	2.21	0.58
45:WC:372:MET:HG2	45:WC:373:ARG:HD3	1.85	0.58
45:WG:250:VAL:HG13	45:WG:254:GLU:HB2	1.85	0.58
46:WH:290:THR:HA	46:WH:293:MET:HG3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WM:27:GLU:OE2	45:WM:243:ARG:NH1	2.35	0.58
3:1C:53:TYR:HB3	45:EM:221:ARG:HH21	1.67	0.58
4:1D:99:ARG:HH12	45:EG:365:GLY:H	1.52	0.58
18:1I:22:LEU:HD12	46:ID:46:ARG:HE	1.67	0.58
14:1V:22:ARG:NH2	45:MI:422:ARG:HH12	1.99	0.58
15:2X:49:ILE:HG12	45:MI:282:TYR:CD2	2.38	0.58
10:5Q:91:VAL:HG12	10:5Q:154:VAL:HG12	1.85	0.58
35:5S:76:ILE:HA	35:5S:89:TRP:CD1	2.39	0.58
35:5S:111:GLU:HG2	35:5S:116:TYR:HB2	1.86	0.58
40:6G:211:SER:HB3	46:VF:213:ARG:HH22	1.68	0.58
46:AB:148:GLY:O	46:AB:152:ILE:HG12	2.03	0.58
46:AD:403:MET:HB3	46:AD:407:GLU:OE2	2.04	0.58
46:AF:148:GLY:O	46:AF:152:ILE:HG12	2.03	0.58
46:AH:68:LEU:HD12	46:AH:93:GLY:HA3	1.86	0.58
46:AH:167:PHE:CE1	46:AH:233:MET:HG2	2.38	0.58
46:AL:67:ASP:OD1	46:AL:68:LEU:N	2.36	0.58
46:BB:207:LEU:HB3	46:BB:225:LEU:HD22	1.86	0.58
45:BC:284:GLU:HG3	45:BC:286:LEU:HD12	1.86	0.58
45:BI:426:ALA:O	45:BI:430:LYS:HG2	2.04	0.58
46:CH:22:GLU:HG3	46:CH:81:PHE:CD2	2.37	0.58
46:ED:12:CYS:O	46:ED:16:ILE:HG12	2.04	0.58
45:EE:172:TYR:HH	45:EE:191:THR:HG1	1.50	0.58
45:EG:176:GLN:OE1	45:EG:304:LYS:NZ	2.37	0.58
45:EK:326:LYS:HD2	46:EL:220:PRO:HD2	1.85	0.58
46:EL:45:GLU:HG2	46:EL:46:ARG:HG2	1.86	0.58
45:FA:285:GLN:O	45:FA:373:ARG:NH2	2.37	0.58
46:FD:173:PRO:HG2	46:FD:380:ARG:HH11	1.67	0.58
46:FF:222:TYR:HA	46:FF:225:LEU:HD12	1.86	0.58
45:GE:292:THR:HG21	45:GE:331:SER:HB3	1.86	0.58
46:HB:45:GLU:HG3	46:HB:46:ARG:HG2	1.86	0.58
46:HH:175:VAL:HG22	46:HH:205:GLU:HB3	1.86	0.58
46:IB:248:SER:HA	46:IB:252:LYS:HG3	1.86	0.58
45:JI:123:ARG:HH11	45:JI:123:ARG:HA	1.69	0.58
46:JJ:1:MET:HG3	46:JJ:48:ASN:HD21	1.67	0.58
46:JJ:222:TYR:O	46:JJ:226:ASN:ND2	2.29	0.58
46:JN:8:GLN:HE21	46:JN:14:ASN:HA	1.68	0.58
45:KA:65:ALA:O	45:KA:91:GLN:NE2	2.37	0.58
45:MG:11:GLN:NE2	46:MH:245:GLN:O	2.36	0.58
45:NA:214:ARG:HH12	45:NA:220:GLU:HA	1.67	0.58
45:NK:226:ASN:ND2	45:NK:367:ASP:OD2	2.36	0.58
45:NM:265:ILE:HG12	45:NM:432:TYR:HE1	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NN:178:THR:HB	46:NN:181:GLU:HG3	1.84	0.58
46:NN:313:ALA:HB1	46:NN:367:PHE:HE1	1.68	0.58
46:OH:10:GLY:O	46:OH:14:ASN:ND2	2.37	0.58
46:OL:60:VAL:HG11	46:OL:86:ARG:HH21	1.68	0.58
45:PE:60:LYS:HZ3	45:PE:86:LEU:HA	1.69	0.58
45:PG:155:GLU:HA	45:PG:197:HIS:HD2	1.69	0.58
46:PH:222:TYR:O	46:PH:226:ASN:ND2	2.24	0.58
45:PI:90:GLU:H	45:QI:280:LYS:HZ1	1.52	0.58
46:PN:388:MET:N	46:PN:388:MET:HE2	2.18	0.58
45:QC:426:ALA:HB1	45:QC:430:LYS:NZ	2.18	0.58
45:QG:141:VAL:HG11	45:QG:172:TYR:HD1	1.68	0.58
46:QL:2:ARG:HH21	45:QM:72:PRO:HD3	1.67	0.58
45:RC:336:LYS:O	45:RC:339:ARG:NH2	2.36	0.58
45:RK:188:ILE:HD12	45:RK:425:LEU:HD11	1.86	0.58
46:RN:55:THR:HG23	46:SN:283:ALA:HA	1.85	0.58
45:SA:55:GLU:HG3	45:SA:57:GLY:H	1.67	0.58
45:SM:121:ARG:HA	45:SM:124:LYS:HG2	1.85	0.58
45:TC:89:PRO:HD2	45:UC:280:LYS:HE3	1.86	0.58
46:TD:200:MET:HG3	46:TD:266:PHE:HB2	1.86	0.58
46:TF:151:LEU:HA	46:TF:154:LYS:NZ	2.19	0.58
45:UC:329:ASN:HA	45:UC:332:ILE:HG12	1.84	0.58
46:UD:109:GLY:O	46:UD:113:ILE:HG23	2.04	0.58
46:UJ:320:ARG:NH2	45:UK:221:ARG:HH21	2.00	0.58
46:VD:260:PHE:HB2	46:VD:263:LEU:HD23	1.86	0.58
45:VG:324:VAL:HG12	45:VG:326:LYS:HG2	1.86	0.58
45:VG:328:VAL:HG11	45:VG:353:VAL:HG21	1.84	0.58
45:DC:231:ILE:O	45:DC:235:ILE:HG12	2.03	0.58
45:DC:251:ASP:OD1	45:DC:252:ILE:N	2.36	0.58
14:1V:24:ARG:HH22	45:MI:434:GLU:HG2	1.69	0.58
15:1X:75:LEU:HD12	46:MF:280:GLN:HE22	1.69	0.58
23:2O:288:LYS:HZ1	46:VH:360:GLY:HA2	1.66	0.58
35:5S:110:ARG:HG3	35:5S:152:THR:HG21	1.85	0.58
46:AB:268:ILE:HG22	46:AB:368:VAL:HG22	1.84	0.58
45:AC:80:THR:O	45:AC:84:ARG:NH2	2.37	0.58
45:BC:88:HIS:O	45:BC:91:GLN:HG2	2.04	0.58
45:BK:316:SER:HA	45:BK:352:LYS:HB2	1.86	0.58
45:BM:222:PRO:HD2	46:BN:324:LYS:CE	2.33	0.58
46:BN:328:GLU:O	46:BN:332:ASN:ND2	2.30	0.58
46:BN:407:GLU:HA	46:BN:410:GLU:HG2	1.84	0.58
46:DJ:99:ASN:ND2	46:DJ:178:THR:HG21	2.19	0.58
46:DL:87:PRO:HA	46:DL:90:PHE:HD2	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EC:286:LEU:HD21	45:EC:371:VAL:HG13	1.86	0.58
45:EC:296:PHE:HE2	45:EC:335:ILE:HG13	1.68	0.58
45:EG:251:ASP:OD1	45:EG:252:ILE:N	2.36	0.58
46:EH:39:ASP:OD2	46:EH:43:GLN:NE2	2.37	0.58
46:EL:8:GLN:HE21	46:EL:65:LEU:HG	1.69	0.58
46:EN:32:PRO:HG3	46:EN:81:PHE:HE1	1.68	0.58
46:EN:299:MET:HG3	46:EN:305:PRO:HG3	1.86	0.58
46:FH:31:ASP:OD2	46:FH:35:THR:OG1	2.21	0.58
46:FJ:276:ARG:HA	46:FJ:279:GLN:HB2	1.85	0.58
46:FJ:289:LEU:HD13	46:FJ:365:VAL:HG23	1.86	0.58
45:GE:133:GLN:HB3	45:GE:252:ILE:HD11	1.86	0.58
45:GG:292:THR:HG21	45:GG:331:SER:HB3	1.86	0.58
45:HA:390:ARG:NH1	45:HA:391:LEU:HG	2.18	0.58
46:HJ:99:ASN:HA	46:HJ:142:GLY:H	1.68	0.58
46:IJ:318:ARG:HB3	46:IJ:357:PRO:HA	1.84	0.58
46:JF:259:PRO:HG2	46:JF:311:LEU:HD23	1.86	0.58
45:KE:33:ASP:OD1	45:KE:34:GLY:N	2.37	0.58
46:LD:203:ASP:OD2	46:LD:302:ALA:N	2.32	0.58
45:MA:116:ASP:OD1	45:MA:117:LEU:N	2.36	0.58
46:MB:137:HIS:CE1	46:MB:166:THR:OG1	2.57	0.58
46:NH:58:ARG:NH2	46:OH:280:GLN:HG3	2.19	0.58
45:NK:105:ARG:NH2	45:NK:411:GLU:OE2	2.37	0.58
45:OE:90:GLU:O	45:OE:121:ARG:NH1	2.36	0.58
45:PK:199:ASP:HB3	45:PK:256:GLN:NE2	2.19	0.58
45:PK:398:MET:HG3	46:PL:345:ILE:HG22	1.84	0.58
46:QB:207:LEU:HB3	46:QB:225:LEU:HD22	1.85	0.58
45:QG:69:ASP:O	45:QG:94:SER:HA	2.03	0.58
46:QL:331:LEU:HD11	45:QM:177:VAL:HG22	1.84	0.58
45:RG:254:GLU:OE2	46:RH:99:ASN:ND2	2.37	0.58
46:SJ:207:LEU:HD23	46:SJ:225:LEU:HB2	1.84	0.58
46:SJ:347:ASN:ND2	45:SK:176:GLN:O	2.36	0.58
46:SL:268:ILE:HG13	46:SL:300:MET:HE2	1.86	0.58
46:TB:86:ARG:NH2	46:TB:123:GLU:OE2	2.37	0.58
46:TB:212:PHE:HE1	46:TB:220:PRO:HG2	1.67	0.58
45:TK:115:VAL:O	45:TK:119:LEU:HG	2.03	0.58
45:UC:208:ALA:HB2	45:UC:304:LYS:HD3	1.86	0.58
45:UG:2:ARG:HG3	45:UG:51:THR:HG22	1.86	0.58
46:UL:86:ARG:HH11	46:VL:282:ARG:HH12	1.51	0.58
46:UN:11:GLN:N	49:UN:501:GDP:O3B	2.33	0.58
46:UN:86:ARG:NH1	46:UN:89:ASN:OD1	2.36	0.58
46:VB:32:PRO:O	46:VB:83:GLN:NE2	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VB:318:ARG:HB3	46:VB:364:ALA:HB3	1.85	0.58
45:VE:75:ILE:HG23	45:VE:92:LEU:HD23	1.84	0.58
46:VF:278:SER:HA	46:VF:281:TYR:HD2	1.69	0.58
46:VF:336:LYS:HE3	46:VF:336:LYS:HA	1.86	0.58
46:VL:77:ARG:NH2	46:VL:83:GLN:HA	2.19	0.58
45:WC:51:THR:HG23	45:WC:52:PHE:CD2	2.38	0.58
45:WK:229:ARG:HD2	45:WK:363:VAL:HG11	1.85	0.58
14:0V:113:ARG:HE	45:LM:196:GLU:HA	1.69	0.58
9:1N:190:PRO:HG2	45:KG:42:ILE:HG21	1.85	0.58
34:4R:351:ASN:OD1	34:4R:352:CYS:N	2.37	0.58
37:5G:87:LEU:HD13	37:5G:92:GLN:HB3	1.86	0.58
46:AB:221:THR:HG23	46:AB:224:ASP:H	1.68	0.58
46:BB:100:ASN:ND2	46:BB:401:GLU:OE1	2.37	0.58
45:BE:135:PHE:HE2	45:BE:157:LEU:HD12	1.69	0.58
46:BN:6:HIS:NE2	46:BN:8:GLN:OE1	2.37	0.58
46:CB:39:ASP:OD1	46:CB:40:SER:N	2.37	0.58
46:CB:207:LEU:HD22	46:CB:228:LEU:HD11	1.86	0.58
46:CH:109:GLY:O	46:CH:113:ILE:HG23	2.04	0.58
45:CM:55:GLU:HG3	45:CM:57:GLY:H	1.69	0.58
45:DE:141:VAL:HG11	45:DE:172:TYR:CD1	2.39	0.58
46:DL:129:CYS:SG	45:DM:96:LYS:HE3	2.44	0.58
45:EE:120:ASP:OD1	45:EE:123:ARG:NH2	2.37	0.58
46:EF:12:CYS:O	46:EF:16:ILE:HG12	2.04	0.58
46:EH:150:LEU:O	46:EH:154:LYS:HG2	2.04	0.58
45:EI:319:TYR:HB3	45:EI:323:VAL:HG21	1.86	0.58
45:EK:288:VAL:HA	45:EK:291:ILE:HG12	1.84	0.58
45:FA:33:ASP:HA	45:FA:85:GLN:HE21	1.67	0.58
45:FM:231:ILE:O	45:FM:235:ILE:HG12	2.04	0.58
46:HD:237:THR:HG23	46:HD:241:ARG:HH21	1.67	0.58
46:HD:326:VAL:O	46:HD:330:MET:HG2	2.03	0.58
45:HE:90:GLU:OE2	45:HE:121:ARG:NH2	2.35	0.58
45:IA:121:ARG:HA	45:IA:124:LYS:NZ	2.18	0.58
46:IJ:107:THR:OG1	46:IJ:108:GLU:OE1	2.22	0.58
46:IL:332:ASN:O	46:IL:336:LYS:HG3	2.03	0.58
45:JE:46:ASP:OD1	45:JE:47:ASP:N	2.37	0.58
45:JE:251:ASP:OD1	45:JE:252:ILE:N	2.37	0.58
45:KG:394:LYS:NZ	46:KH:346:PRO:O	2.36	0.58
46:KN:167:PHE:HA	46:KN:200:MET:HB2	1.85	0.58
46:LD:156:ARG:HG3	46:LD:195:ASN:HB3	1.86	0.58
45:MA:150:GLY:O	45:MA:154:LEU:HD23	2.03	0.58
46:MD:322:SER:OG	46:MD:325:GLU:OE1	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MG:71:GLU:HB2	45:MG:98:ASP:HB3	1.85	0.58
46:MN:114:ASP:OD1	46:MN:115:SER:N	2.37	0.58
46:OB:221:THR:HG22	46:OB:223:GLY:H	1.68	0.58
46:OD:10:GLY:O	46:OD:14:ASN:ND2	2.35	0.58
46:OJ:83:GLN:O	46:PJ:281:TYR:OH	2.20	0.58
46:PD:153:SER:HB2	46:PD:191:GLN:HE21	1.68	0.58
45:PM:140:SER:OG	47:PM:501:GTP:O2B	2.20	0.58
46:QH:273:LEU:N	46:QH:292:GLN:HE22	2.02	0.58
46:QL:2:ARG:NH1	45:QM:98:ASP:H	2.01	0.58
45:RI:56:THR:HG23	45:RI:58:ALA:H	1.68	0.58
46:SB:303:ALA:HB2	46:SB:377:MET:HE1	1.86	0.58
45:SK:31:GLN:HB3	45:SK:33:ASP:OD1	2.03	0.58
45:TC:55:GLU:O	45:UC:285:GLN:NE2	2.37	0.58
46:TD:54:ALA:HB3	46:TD:58:ARG:HG2	1.86	0.58
45:TG:352:LYS:HZ3	46:TH:178:THR:N	2.01	0.58
46:TH:405:GLU:OE2	46:TH:409:THR:OG1	2.21	0.58
45:UC:426:ALA:HB1	45:UC:430:LYS:NZ	2.19	0.58
45:UI:352:LYS:NZ	46:UJ:178:THR:HA	2.18	0.58
46:VD:68:LEU:HB3	46:VD:96:GLY:HA2	1.85	0.58
45:VG:90:GLU:OE2	45:VG:121:ARG:NH1	2.37	0.58
46:VH:330:MET:HB3	46:VH:349:ILE:HD13	1.85	0.58
46:VL:67:ASP:O	46:VL:92:PHE:HA	2.03	0.58
46:VL:143:THR:O	46:VL:147:MET:HG3	2.04	0.58
45:WA:352:LYS:HE2	46:WD:178:THR:HA	1.86	0.58
46:WD:68:LEU:HD23	46:WD:143:THR:HB	1.86	0.58
45:WI:260:VAL:HG23	46:WL:397:TRP:HE1	1.69	0.58
45:CE:174:SER:HB3	45:CE:177:VAL:O	2.03	0.58
20:2K:354:TRP:CH2	46:GJ:276:ARG:HG3	2.39	0.58
23:2O:177:LYS:HZ2	46:VL:362:LYS:HE2	1.67	0.58
11:3S:152:SER:OG	46:WN:94:GLN:NE2	2.37	0.58
36:5C:126:ILE:HG23	46:NL:224:ASP:OD1	2.03	0.58
39:6F:62:GLN:H	45:IE:84:ARG:HH12	1.52	0.58
46:AB:166:THR:HG21	46:AB:192:LEU:HD11	1.86	0.58
46:AF:178:THR:HG22	46:AF:180:VAL:H	1.68	0.58
46:AL:10:GLY:O	46:AL:14:ASN:ND2	2.36	0.58
45:BC:221:ARG:HD2	46:BD:324:LYS:NZ	2.17	0.58
45:BM:90:GLU:HG3	45:BM:121:ARG:NH1	2.19	0.58
46:BN:273:LEU:H	46:BN:292:GLN:HE22	1.52	0.58
45:CK:53:PHE:O	45:CK:64:ARG:NH2	2.37	0.58
46:CL:214:THR:OG1	46:CL:297:LYS:NZ	2.37	0.58
46:CL:392:LYS:HA	46:CL:395:LEU:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DE:68:LEU:HD22	45:DE:153:LEU:HD11	1.86	0.58
46:EJ:371:SER:O	46:EJ:422:TYR:OH	2.21	0.58
46:FF:238:CYS:SG	46:FF:239:CYS:N	2.77	0.58
46:FH:268:ILE:HG22	46:FH:368:VAL:HG22	1.85	0.58
45:FI:71:GLU:OE2	46:FJ:2:ARG:NH2	2.37	0.58
45:FK:9:VAL:HG12	45:FK:68:LEU:HB2	1.84	0.58
45:GC:402:ARG:NH1	45:GC:415:GLU:OE2	2.28	0.58
45:HM:76:ASP:OD2	46:HN:46:ARG:NH2	2.37	0.58
45:II:172:TYR:HD1	45:II:173:PRO:HD2	1.69	0.58
46:IL:7:ILE:HG13	46:IL:135:ILE:HG12	1.85	0.58
45:JK:88:HIS:ND1	45:JK:90:GLU:OE1	2.36	0.58
46:LJ:91:VAL:HG21	46:LJ:116:VAL:HB	1.86	0.58
45:LK:289:ALA:O	45:LK:293:ASN:ND2	2.27	0.58
45:MA:56:THR:HG23	45:MA:58:ALA:H	1.68	0.58
45:MC:176:GLN:NE2	45:MC:207:GLU:OE2	2.37	0.58
45:NA:286:LEU:O	45:NA:373:ARG:NH2	2.36	0.58
46:NH:128:ASP:OD1	46:NH:129:CYS:N	2.37	0.58
46:NH:391:ARG:HG3	46:NH:393:ALA:H	1.69	0.58
46:NL:99:ASN:HA	46:NL:142:GLY:HA3	1.85	0.58
46:NL:392:LYS:HG3	46:NL:395:LEU:HD23	1.85	0.58
45:OA:133:GLN:NE2	45:OA:251:ASP:OD1	2.37	0.58
45:OA:262:TYR:OH	46:OD:391:ARG:O	2.21	0.58
45:OE:98:ASP:OD1	45:OE:99:ALA:N	2.36	0.58
46:PL:389:PHE:CZ	46:PL:405:GLU:HG3	2.39	0.58
46:QB:49:VAL:HG21	46:QB:241:ARG:HG2	1.86	0.58
46:QL:272:PRO:HD2	46:QL:361:LEU:HD21	1.86	0.58
45:RC:404:PHE:HA	45:RC:407:TRP:CZ3	2.39	0.58
46:SD:148:GLY:O	46:SD:152:ILE:HG12	2.03	0.58
45:UA:120:ASP:OD1	45:UA:123:ARG:NH1	2.37	0.58
45:UG:88:HIS:HB3	45:UG:91:GLN:HG2	1.86	0.58
46:UN:183:TYR:HA	46:UN:385:PHE:HE2	1.69	0.58
46:VD:406:MET:O	46:VD:410:GLU:HG2	2.02	0.58
45:VG:422:ARG:NH1	45:VG:422:ARG:O	2.37	0.58
46:VH:186:THR:HA	46:VH:189:VAL:HG12	1.86	0.58
46:VL:104:GLY:O	46:VL:147:MET:HB3	2.04	0.58
45:WE:338:LYS:HD3	45:WE:340:THR:HG22	1.86	0.58
46:WJ:73:MET:HA	46:WJ:76:VAL:HG12	1.85	0.58
46:WL:380:ARG:NH2	46:WL:383:GLU:OE1	2.37	0.58
45:WM:244:PHE:HB2	45:WM:356:ASN:HD21	1.68	0.58
8:1H:190:LYS:NZ	45:GG:58:ALA:HB3	2.19	0.57
21:1L:668:GLN:NE2	45:CE:367:ASP:OD1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:181:MET:SD	46:VL:279:GLN:NE2	2.48	0.57
30:3H:199:GLU:OE2	46:AH:245:GLN:NE2	2.36	0.57
36:5A:65:THR:HG23	36:5A:68:ASP:H	1.69	0.57
37:5F:46:LEU:N	37:5F:48:ARG:HH22	2.01	0.57
39:6F:44:ARG:HB3	46:IF:41:ASP:HB2	1.85	0.57
40:6G:166:PHE:HE2	46:VH:212:PHE:HB3	1.66	0.57
34:7R:404:LEU:HD21	46:DB:77:ARG:HG2	1.84	0.57
46:AB:295:ASP:OD1	46:AB:297:LYS:NZ	2.37	0.57
45:AG:392:ASP:OD2	45:AG:422:ARG:NE	2.37	0.57
45:BE:326:LYS:HZ1	46:BH:220:PRO:HD2	1.67	0.57
45:BK:254:GLU:HG2	46:BN:98:GLY:HA2	1.86	0.57
46:BN:77:ARG:HH12	46:BN:83:GLN:HA	1.69	0.57
46:BN:290:THR:HA	46:BN:293:MET:HG2	1.86	0.57
46:CF:65:LEU:HD22	46:CF:90:PHE:HE1	1.69	0.57
45:CI:346:TRP:CD1	46:CJ:391:ARG:HG3	2.39	0.57
46:CL:321:MET:HB2	45:CM:221:ARG:NH2	2.18	0.57
46:DJ:73:MET:HA	46:DJ:76:VAL:HG12	1.86	0.57
45:DM:108:TYR:O	45:DM:112:LYS:NZ	2.35	0.57
45:EE:108:TYR:O	45:EE:112:LYS:NZ	2.35	0.57
45:FA:73:THR:OG1	46:FB:247:ASN:ND2	2.37	0.57
45:FC:141:VAL:HG11	45:FC:172:TYR:CD1	2.39	0.57
46:FL:326:VAL:O	46:FL:330:MET:HG2	2.04	0.57
45:GA:171:ILE:O	45:GA:171:ILE:HG13	2.04	0.57
46:GD:179:VAL:HG13	46:GD:180:VAL:HG23	1.85	0.57
46:GL:392:LYS:HA	46:GL:395:LEU:HD12	1.85	0.57
45:HC:390:ARG:HG3	45:HC:391:LEU:HD12	1.86	0.57
46:HF:68:LEU:HB3	46:HF:96:GLY:HA2	1.85	0.57
45:HG:258:ASN:HD22	45:HG:352:LYS:HB2	1.69	0.57
46:HH:222:TYR:O	46:HH:226:ASN:ND2	2.23	0.57
45:II:326:LYS:NZ	46:IL:212:PHE:HB2	2.18	0.57
45:JA:180:ALA:HB3	45:JA:183:GLU:HG3	1.84	0.57
45:JC:335:ILE:HA	45:JC:338:LYS:HZ3	1.68	0.57
45:JE:88:HIS:NE2	45:KE:284:GLU:OE2	2.36	0.57
45:JI:181:VAL:N	46:JJ:350:LYS:HZ1	2.02	0.57
45:KM:127:ASP:OD1	45:KM:128:ASN:N	2.37	0.57
46:LB:376:GLU:HB3	46:LB:380:ARG:HH21	1.68	0.57
45:LG:206:ASN:OD1	47:LG:501:GTP:N2	2.35	0.57
46:MB:268:ILE:N	46:MB:299:MET:HE1	2.19	0.57
46:MD:200:MET:SD	46:MD:268:ILE:HD13	2.44	0.57
46:MF:135:ILE:HG13	46:MF:152:ILE:HD11	1.86	0.57
45:NA:60:LYS:NZ	45:NA:61:HIS:O	2.27	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NE:140:SER:HA	45:NE:171:ILE:HB	1.84	0.57
46:NN:318:ARG:HD3	46:NN:358:PRO:HD3	1.85	0.57
45:OA:175:PRO:HB2	45:OA:176:GLN:OE1	2.03	0.57
45:OA:208:ALA:HB2	45:OA:304:LYS:HD2	1.85	0.57
45:OA:223:THR:HG22	46:OB:322:SER:HA	1.85	0.57
46:PJ:276:ARG:HA	46:PJ:279:GLN:NE2	2.18	0.57
46:PN:309:ARG:N	46:PN:372:THR:OG1	2.33	0.57
46:PN:319:GLY:HA2	46:PN:357:PRO:HD3	1.85	0.57
45:QC:192:HIS:ND1	45:QC:424:ASP:OD2	2.32	0.57
46:QH:99:ASN:HA	46:QH:142:GLY:H	1.69	0.57
45:RE:346:TRP:CD1	46:RF:391:ARG:HG3	2.39	0.57
45:RG:12:GLY:HA2	45:RG:15:GLN:HE21	1.69	0.57
45:RM:27:GLU:HB3	45:RM:361:THR:HG21	1.86	0.57
45:RM:187:SER:O	45:RM:191:THR:HG23	2.04	0.57
46:SH:222:TYR:O	46:SH:226:ASN:ND2	2.29	0.57
46:TB:212:PHE:CE1	46:TB:220:PRO:HG2	2.39	0.57
46:TH:240:LEU:HD21	46:TH:249:ASP:HA	1.86	0.57
45:TI:188:ILE:HD12	45:TI:425:LEU:HD11	1.85	0.57
45:TK:141:VAL:HG11	45:TK:172:TYR:CD1	2.39	0.57
45:VE:76:ASP:OD2	46:VF:46:ARG:NH2	2.37	0.57
45:VM:284:GLU:HG3	45:VM:286:LEU:HD22	1.86	0.57
46:VN:236:VAL:HG13	46:VN:237:THR:HG23	1.86	0.57
46:WL:282:ARG:HE	46:WL:288:GLU:HG3	1.68	0.57
46:WN:207:LEU:HB3	46:WN:225:LEU:HD22	1.85	0.57
23:1O:210:ILE:HG21	45:UC:281:ALA:HB3	1.85	0.57
36:5C:77:SER:O	46:NJ:320:ARG:NH2	2.37	0.57
34:7R:357:LYS:NZ	34:7R:368:GLN:O	2.36	0.57
45:AC:108:TYR:HA	45:AC:112:LYS:HE3	1.86	0.57
46:BD:173:PRO:HD2	46:BD:174:LYS:NZ	2.19	0.57
45:BE:31:GLN:OE1	45:BE:32:PRO:HD2	2.04	0.57
45:BG:331:SER:O	45:BG:335:ILE:HG12	2.04	0.57
46:BH:222:TYR:O	46:BH:226:ASN:ND2	2.24	0.57
45:CA:325:PRO:HG2	46:CB:222:TYR:HE2	1.69	0.57
46:CF:326:VAL:O	46:CF:330:MET:HG2	2.04	0.57
46:CJ:232:ALA:HB1	46:CJ:268:ILE:HD12	1.86	0.57
45:CK:231:ILE:O	45:CK:235:ILE:HG12	2.04	0.57
46:DH:309:ARG:NH2	46:DH:426:GLN:O	2.28	0.57
45:DK:259:LEU:HD13	45:DK:268:MET:HE1	1.85	0.57
46:EF:379:LYS:HD3	46:EF:419:VAL:HG11	1.86	0.57
46:FD:215:LEU:HD21	46:FD:273:LEU:HD12	1.84	0.57
46:FD:276:ARG:HA	46:FD:279:GLN:HG3	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:179:THR:HG22	46:GB:350:LYS:NZ	2.19	0.57
46:GD:97:ALA:HB3	46:GD:143:THR:HB	1.85	0.57
45:GI:210:TYR:HB3	46:GJ:324:LYS:NZ	2.19	0.57
46:HD:148:GLY:O	46:HD:152:ILE:HG12	2.04	0.57
45:HM:141:VAL:HG22	45:HM:187:SER:HA	1.85	0.57
46:ID:317:PHE:HD1	46:ID:365:VAL:HG22	1.69	0.57
46:IH:139:LEU:HD13	46:IH:168:SER:HB3	1.85	0.57
45:II:241:SER:HA	45:II:356:ASN:HD21	1.69	0.57
45:IM:226:ASN:ND2	45:IM:367:ASP:OD2	2.36	0.57
45:JK:251:ASP:OD1	45:JK:252:ILE:N	2.35	0.57
46:JL:70:PRO:O	46:JL:74:ASP:HB2	2.05	0.57
46:KF:130:LEU:HD22	46:KF:162:ARG:HG2	1.85	0.57
45:KK:147:SER:HB2	45:KK:190:SER:HB3	1.85	0.57
45:KM:318:MET:HB2	45:KM:376:CYS:SG	2.44	0.57
45:NC:399:TYR:O	45:NC:402:ARG:NH1	2.36	0.57
46:NF:179:VAL:HG13	46:NF:180:VAL:HG13	1.86	0.57
45:NG:279:GLU:HG3	45:NG:280:LYS:H	1.69	0.57
46:NL:318:ARG:HD3	46:NL:358:PRO:HG3	1.86	0.57
46:NN:329:GLN:HA	46:NN:332:ASN:ND2	2.19	0.57
46:OD:140:GLY:HA2	46:OD:181:GLU:OE2	2.04	0.57
45:OE:221:ARG:NH2	46:OF:322:SER:H	2.02	0.57
45:OM:9:VAL:HG23	45:OM:139:ASN:HD22	1.69	0.57
45:PC:178:SER:OG	46:PD:347:ASN:OD1	2.17	0.57
46:PD:268:ILE:HG13	46:PD:300:MET:HG3	1.86	0.57
45:PI:127:ASP:OD1	45:QI:293:ASN:ND2	2.36	0.57
46:PN:344:TRP:HB3	46:PN:430:ALA:HB2	1.85	0.57
45:QA:199:ASP:OD1	45:QA:200:VAL:N	2.37	0.57
45:QG:429:GLU:O	45:QG:433:GLU:HG2	2.03	0.57
45:QK:269:LEU:HD12	45:QK:303:ALA:HB3	1.86	0.57
46:QL:6:HIS:HD1	46:QL:21:TRP:HE1	1.52	0.57
45:QM:79:ARG:HA	45:QM:87:PHE:HZ	1.69	0.57
45:RG:430:LYS:NZ	45:RG:434:GLU:OE2	2.36	0.57
45:RI:68:LEU:HD23	45:RI:93:ILE:HB	1.85	0.57
46:RJ:183:TYR:HA	46:RJ:385:PHE:HE1	1.69	0.57
45:SA:206:ASN:OD1	47:SA:501:GTP:N2	2.38	0.57
45:SE:75:ILE:HD13	45:SE:94:SER:HB2	1.84	0.57
45:SE:171:ILE:HG13	45:SE:204:LEU:HB2	1.86	0.57
45:SE:402:ARG:HH22	45:SE:406:HIS:HB3	1.70	0.57
45:SG:329:ASN:HA	45:SG:332:ILE:HG12	1.84	0.57
46:TB:221:THR:HG23	46:TB:224:ASP:H	1.69	0.57
46:TH:26:ASP:O	46:TH:359:LYS:NZ	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TL:324:LYS:HB2	45:TM:221:ARG:HH12	1.68	0.57
45:TM:213:CYS:HA	45:TM:217:LEU:HD13	1.85	0.57
46:UF:331:LEU:HD11	45:UG:177:VAL:HG22	1.86	0.57
45:UG:26:LEU:HD21	45:UG:363:VAL:HG12	1.86	0.57
46:UL:128:ASP:OD1	46:UL:129:CYS:N	2.37	0.57
46:VH:344:TRP:HB3	46:VH:430:ALA:HB2	1.85	0.57
45:VI:89:PRO:HD2	45:WI:280:LYS:HZ3	1.69	0.57
45:VK:352:LYS:NZ	46:VN:178:THR:HG23	2.20	0.57
46:VL:389:PHE:HZ	46:VL:405:GLU:HG2	1.68	0.57
46:VN:410:GLU:O	46:VN:414:ASN:ND2	2.37	0.57
45:WC:212:ILE:HD13	45:WC:215:ARG:HH12	1.69	0.57
46:WJ:153:SER:HB3	46:WJ:154:LYS:HZ2	1.70	0.57
46:WN:293:MET:HG2	46:WN:365:VAL:HG11	1.86	0.57
18:1I:222:GLU:HG2	15:4X:141:PHE:CE1	2.38	0.57
21:2L:899:LEU:O	46:CJ:320:ARG:NH2	2.36	0.57
37:5F:129:ARG:HE	37:5F:130:PRO:HD2	1.70	0.57
37:5F:157:ARG:NH2	46:NH:36:TYR:O	2.37	0.57
34:5R:492:ILE:HD11	34:5R:507:ARG:HA	1.86	0.57
34:7R:491:GLN:NE2	34:7R:583:GLN:OE1	2.32	0.57
46:AB:222:TYR:O	46:AB:226:ASN:ND2	2.28	0.57
45:AM:207:GLU:HB2	45:AM:304:LYS:HG3	1.86	0.57
45:BC:11:GLN:HE21	45:BC:15:GLN:HE22	1.53	0.57
46:CB:5:VAL:HG12	46:CB:62:ARG:HD3	1.86	0.57
46:CD:293:MET:HG2	46:CD:365:VAL:HG11	1.86	0.57
46:CD:309:ARG:NH1	46:CD:339:SER:O	2.37	0.57
46:CF:257:LEU:HD11	46:CF:314:SER:HB2	1.87	0.57
45:CG:133:GLN:HB3	45:CG:252:ILE:HG21	1.85	0.57
46:DB:88:ASP:OD2	46:DB:89:ASN:N	2.38	0.57
46:EN:86:ARG:HD2	46:EN:87:PRO:HD2	1.86	0.57
46:FL:266:PHE:HE1	46:FL:370:ASN:ND2	2.02	0.57
45:FM:275:ILE:HA	45:FM:368:LEU:HD11	1.87	0.57
45:GC:117:LEU:O	45:GC:121:ARG:HG2	2.05	0.57
45:GG:64:ARG:NH1	45:GG:129:CYS:SG	2.77	0.57
45:GG:288:VAL:HA	45:GG:291:ILE:HG12	1.85	0.57
45:HA:101:ASN:HA	45:HA:144:GLY:H	1.69	0.57
45:HE:70:LEU:HD13	45:HE:95:GLY:HA3	1.86	0.57
46:HF:133:PHE:HB2	46:HF:164:MET:SD	2.44	0.57
46:HF:205:GLU:OE2	46:HF:302:ALA:HB2	2.04	0.57
46:HN:8:GLN:HE21	46:HN:65:LEU:HG	1.70	0.57
45:IC:332:ILE:HD11	45:IC:351:PHE:CG	2.38	0.57
45:JA:244:PHE:HB2	45:JA:356:ASN:HD21	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JF:187:LEU:HD21	46:JF:408:PHE:HE2	1.69	0.57
45:KA:271:SER:HB2	45:KA:301:MET:SD	2.44	0.57
46:KD:31:ASP:HB3	46:KD:37:HIS:CD2	2.39	0.57
46:KD:286:VAL:HG21	46:KD:325:GLU:HG3	1.86	0.57
45:KG:206:ASN:OD1	47:KG:501:GTP:N2	2.37	0.57
46:LH:334:GLN:NE2	46:LH:348:ASN:OD1	2.37	0.57
45:MA:6:SER:OG	45:MA:8:HIS:NE2	2.34	0.57
45:MC:395:PHE:CD2	45:MC:422:ARG:HD3	2.39	0.57
45:MM:231:ILE:O	45:MM:235:ILE:HD12	2.03	0.57
46:NB:15:GLN:NE2	49:NB:501:GDP:O6	2.37	0.57
45:NE:322:ASP:OD1	45:NE:373:ARG:NH1	2.37	0.57
46:NH:324:LYS:HG3	46:NH:325:GLU:N	2.19	0.57
46:NL:3:GLU:CD	46:NL:3:GLU:H	2.07	0.57
46:OB:256:ASN:ND2	46:OB:350:LYS:HB2	2.18	0.57
45:OC:60:LYS:NZ	45:OC:61:HIS:O	2.37	0.57
46:QB:226:ASN:HD21	49:QB:501:GDP:HN1	1.53	0.57
46:QD:5:VAL:HG12	46:QD:62:ARG:HD3	1.86	0.57
46:QD:344:TRP:HB3	46:QD:430:ALA:HB2	1.86	0.57
45:QE:268:MET:HG3	45:QE:380:ASN:HB3	1.85	0.57
45:QE:329:ASN:HA	45:QE:332:ILE:HG12	1.85	0.57
46:QH:181:GLU:HB3	46:QH:182:PRO:HD3	1.84	0.57
46:RD:167:PHE:CE2	46:RD:233:MET:HB2	2.37	0.57
45:SE:271:SER:HA	45:SE:302:MET:HG3	1.86	0.57
45:SI:242:LEU:HD11	45:SI:252:ILE:HG12	1.86	0.57
46:SN:67:ASP:O	46:SN:92:PHE:HA	2.05	0.57
46:TD:209:ASP:OD1	46:TD:213:ARG:NE	2.32	0.57
46:TF:22:GLU:HG2	46:TF:81:PHE:CD2	2.40	0.57
46:TF:151:LEU:HA	46:TF:154:LYS:HZ3	1.69	0.57
46:TF:318:ARG:HD3	46:TF:358:PRO:HD3	1.87	0.57
45:TG:171:ILE:HG13	45:TG:204:LEU:HB2	1.85	0.57
46:UH:12:CYS:O	46:UH:16:ILE:HD12	2.05	0.57
46:UN:48:ASN:O	46:UN:62:ARG:NH2	2.38	0.57
45:VC:284:GLU:HG2	45:VC:286:LEU:HD22	1.86	0.57
46:VD:183:TYR:HE2	46:VD:394:PHE:HB2	1.69	0.57
45:WC:70:LEU:O	46:WD:2:ARG:NH2	2.37	0.57
46:WL:164:MET:HB3	46:WL:197:ASP:H	1.67	0.57
46:WL:285:THR:HG23	46:WL:287:PRO:HD2	1.85	0.57
45:DC:294:SER:HA	45:DC:297:GLU:OE1	2.04	0.57
18:1I:167:ARG:HH22	45:KE:357:TYR:HB3	1.69	0.57
21:1L:425:SER:OG	45:CG:279:GLU:OE1	2.21	0.57
26:1W:69:ASN:HB3	15:4X:140:PRO:HG3	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:2I:134:LYS:NZ	46:GD:328:GLU:HG3	2.17	0.57
39:6F:62:GLN:N	45:IE:84:ARG:HH22	2.03	0.57
45:AA:340:THR:HG23	45:AA:341:ILE:HG13	1.86	0.57
46:AL:204:ASN:O	46:AL:208:TYR:HD2	1.87	0.57
46:AN:5:VAL:HG12	46:AN:62:ARG:HD3	1.86	0.57
45:BA:387:VAL:O	45:BA:390:ARG:HG2	2.04	0.57
46:BL:209:ASP:OD1	46:BL:213:ARG:NH1	2.38	0.57
46:CF:318:ARG:HB3	46:CF:357:PRO:HA	1.85	0.57
46:DJ:317:PHE:HE2	46:DJ:326:VAL:HG13	1.68	0.57
46:DL:331:LEU:HD22	45:DM:177:VAL:HG22	1.86	0.57
45:EC:40:LYS:NZ	45:EC:43:GLY:H	2.02	0.57
45:EC:88:HIS:NE2	45:FA:284:GLU:OE1	2.35	0.57
45:EG:292:THR:HG21	45:EG:331:SER:HB2	1.85	0.57
45:EI:338:LYS:HZ2	45:EI:339:ARG:H	1.52	0.57
46:EJ:148:GLY:O	46:EJ:152:ILE:HG12	2.05	0.57
46:GF:325:GLU:HA	46:GF:328:GLU:HG3	1.86	0.57
46:GN:236:VAL:HG23	46:GN:237:THR:HG23	1.85	0.57
46:HB:67:ASP:O	46:HB:92:PHE:HA	2.04	0.57
46:HD:3:GLU:HG2	46:HD:49:VAL:HA	1.84	0.57
46:HH:99:ASN:HA	46:HH:142:GLY:H	1.69	0.57
45:IA:226:ASN:ND2	45:IA:367:ASP:OD2	2.37	0.57
46:IB:167:PHE:CZ	46:IB:233:MET:HG3	2.39	0.57
45:IC:69:ASP:OD1	45:IC:70:LEU:N	2.37	0.57
46:IL:204:ASN:HA	46:IL:207:LEU:HD12	1.86	0.57
45:IM:127:ASP:OD1	45:IM:128:ASN:N	2.38	0.57
45:IM:284:GLU:HG3	45:IM:286:LEU:HD22	1.87	0.57
45:JE:287:SER:N	45:JE:290:GLU:OE1	2.33	0.57
46:JH:187:LEU:HD21	46:JH:408:PHE:HE1	1.68	0.57
45:KI:109:THR:O	45:KI:112:LYS:NZ	2.37	0.57
45:LE:227:LEU:O	45:LE:231:ILE:HG12	2.04	0.57
45:MG:385:ALA:HB2	45:MG:432:TYR:HD1	1.69	0.57
46:MH:106:TYR:HE2	46:MH:403:MET:HB3	1.69	0.57
46:MH:375:GLN:HG3	46:MH:419:VAL:HG13	1.86	0.57
45:MI:109:THR:O	45:MI:112:LYS:NZ	2.38	0.57
45:MI:282:TYR:HE1	45:MI:371:VAL:HG22	1.69	0.57
45:MI:326:LYS:HD2	46:ML:220:PRO:HD2	1.87	0.57
46:NB:105:HIS:CE1	46:NB:150:LEU:HD12	2.40	0.57
46:NB:209:ASP:O	46:NB:213:ARG:HG2	2.04	0.57
46:ND:116:VAL:HA	46:ND:119:VAL:HG12	1.87	0.57
45:NE:276:ILE:HG13	45:NE:283:HIS:HE1	1.69	0.57
46:NF:103:LYS:NZ	46:NF:401:GLU:OE2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OB:97:ALA:HA	46:OB:103:LYS:HD2	1.85	0.57
46:OD:405:GLU:HA	46:OD:408:PHE:HD2	1.69	0.57
45:OK:50:ASN:O	45:OK:64:ARG:NH1	2.38	0.57
45:OK:101:ASN:HA	45:OK:144:GLY:H	1.68	0.57
45:OK:141:VAL:HG11	45:OK:172:TYR:CD1	2.39	0.57
46:OL:113:ILE:HG21	46:OL:150:LEU:HD22	1.86	0.57
46:OL:318:ARG:HG2	46:OL:358:PRO:HD3	1.86	0.57
46:PF:326:VAL:O	46:PF:330:MET:HG2	2.04	0.57
45:PG:324:VAL:HG12	45:PG:326:LYS:HG2	1.86	0.57
45:QE:242:LEU:HD11	45:QE:252:ILE:HG12	1.87	0.57
46:QF:83:GLN:O	46:RF:281:TYR:OH	2.23	0.57
46:QL:74:ASP:OD1	46:QL:77:ARG:NH2	2.34	0.57
46:RF:63:ALA:O	46:RF:89:ASN:ND2	2.36	0.57
45:RG:296:PHE:HE1	45:RG:377:MET:HG3	1.68	0.57
46:RH:153:SER:HA	46:RH:195:ASN:ND2	2.19	0.57
46:SB:28:HIS:CE1	46:SB:241:ARG:HH21	2.21	0.57
46:SB:350:LYS:HA	45:SC:179:THR:O	2.03	0.57
46:SD:6:HIS:HE1	46:SD:8:GLN:NE2	2.03	0.57
46:SD:313:ALA:HB1	46:SD:367:PHE:HE1	1.69	0.57
45:SG:332:ILE:HA	45:SG:335:ILE:HG12	1.86	0.57
45:SK:169:PHE:HB3	45:SK:204:LEU:HD11	1.85	0.57
46:SL:350:LYS:HZ1	45:SM:181:VAL:N	2.02	0.57
45:TE:257:THR:HG21	46:TF:100:ASN:HD21	1.69	0.57
46:TL:325:GLU:H	45:TM:221:ARG:HH22	1.49	0.57
46:UB:375:GLN:HE22	46:UB:419:VAL:HA	1.69	0.57
46:UJ:167:PHE:HA	46:UJ:200:MET:HB2	1.86	0.57
46:VD:237:THR:HG23	46:VD:241:ARG:HE	1.69	0.57
45:VE:11:GLN:NE2	47:VE:501:GTP:O3A	2.36	0.57
46:VF:200:MET:HG3	46:VF:266:PHE:HB2	1.86	0.57
46:VF:290:THR:HA	46:VF:293:MET:HG3	1.84	0.57
46:VH:254:ALA:O	46:VH:258:ILE:HG22	2.04	0.57
45:VI:88:HIS:CE1	45:WI:280:LYS:HE2	2.40	0.57
46:WB:105:HIS:CD2	46:WB:150:LEU:HD23	2.39	0.57
46:WD:294:PHE:CD2	46:WD:333:VAL:HG11	2.40	0.57
45:WK:286:LEU:O	45:WK:373:ARG:NH2	2.38	0.57
45:CE:345:ASP:OD1	45:CE:346:TRP:N	2.37	0.57
9:0N:15:ARG:NH1	46:IN:45:GLU:OE2	2.36	0.57
9:1N:249:LEU:HD23	46:KJ:74:ASP:HA	1.87	0.57
12:1T:229:THR:OG1	45:MC:431:ASP:OD2	2.22	0.57
31:2I:139:ARG:CZ	46:GD:340:TYR:HB2	2.35	0.57
23:2O:423:HIS:NE2	45:VA:370:LYS:O	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4Q:113:ARG:NH2	45:AI:196:GLU:OE1	2.36	0.57
36:5A:30:LYS:H	36:5A:36:ARG:HH21	1.52	0.57
36:5B:45:TYR:CZ	36:5B:56:ILE:HG13	2.40	0.57
34:5R:101:GLU:OE1	46:BL:280:GLN:NE2	2.38	0.57
34:5R:319:PRO:HG3	46:CJ:228:LEU:HD22	1.87	0.57
46:AL:232:ALA:HB1	46:AL:268:ILE:HD12	1.86	0.57
45:BA:331:SER:O	45:BA:335:ILE:HG12	2.04	0.57
46:BD:68:LEU:HB3	46:BD:96:GLY:HA2	1.85	0.57
46:BH:87:PRO:HA	46:BH:90:PHE:HD2	1.70	0.57
45:CG:296:PHE:CE2	45:CG:335:ILE:HD13	2.40	0.57
45:CG:342:GLN:HA	45:CG:342:GLN:HE21	1.69	0.57
46:CJ:245:GLN:O	45:CK:11:GLN:NE2	2.36	0.57
46:DJ:187:LEU:HD21	46:DJ:408:PHE:HE2	1.70	0.57
46:DJ:258:ILE:HG13	45:DK:407:TRP:HE1	1.69	0.57
45:DK:265:ILE:HD11	45:DK:435:VAL:HG21	1.87	0.57
46:DL:316:LEU:HD13	46:DL:352:SER:HB2	1.85	0.57
46:EB:248:SER:HA	46:EB:252:LYS:HD2	1.86	0.57
45:EC:239:THR:HG23	45:EC:243:ARG:HH21	1.70	0.57
46:ED:321:MET:SD	46:ED:363:MET:HG3	2.44	0.57
45:EG:260:VAL:HG13	46:EH:397:TRP:HZ2	1.70	0.57
46:EJ:328:GLU:OE1	46:EJ:329:GLN:HG2	2.04	0.57
46:EN:139:LEU:HD22	46:EN:170:VAL:HG12	1.86	0.57
45:FE:98:ASP:O	45:FE:105:ARG:NH1	2.37	0.57
46:FF:95:THR:OG1	46:FF:108:GLU:OE2	2.23	0.57
45:GA:172:TYR:CE2	45:GA:203:MET:HG3	2.40	0.57
46:GH:164:MET:HB3	46:GH:197:ASP:H	1.69	0.57
46:HB:164:MET:HB2	46:HB:197:ASP:H	1.68	0.57
45:HE:322:ASP:OD1	45:HE:373:ARG:NH1	2.37	0.57
45:HG:207:GLU:OE1	45:HG:304:LYS:NZ	2.23	0.57
46:HL:260:PHE:HB2	46:HL:263:LEU:HD13	1.86	0.57
45:IC:207:GLU:OE1	45:IC:207:GLU:N	2.38	0.57
45:IG:72:PRO:HD2	46:IH:2:ARG:HH21	1.69	0.57
45:IM:89:PRO:HD3	46:JN:281:TYR:CE2	2.40	0.57
46:JD:249:ASP:OD1	46:JD:250:LEU:N	2.31	0.57
46:KH:67:ASP:OD1	46:KH:68:LEU:N	2.37	0.57
46:KL:268:ILE:HG22	46:KL:368:VAL:HG22	1.87	0.57
45:KM:271:SER:HB3	45:KM:377:MET:HB3	1.87	0.57
45:LA:11:GLN:HG3	45:LA:74:VAL:HG11	1.86	0.57
46:LB:202:ILE:HD11	46:LB:268:ILE:HD11	1.85	0.57
45:LC:399:TYR:O	45:LC:402:ARG:NH1	2.37	0.57
45:LE:210:TYR:HE1	45:LE:227:LEU:HD11	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LH:294:PHE:HE2	46:LH:333:VAL:HG11	1.69	0.57
46:LJ:192:LEU:HD21	46:LJ:199:CYS:SG	2.44	0.57
46:MB:282:ARG:NH2	46:MB:292:GLN:OE1	2.31	0.57
46:MH:54:ALA:HB3	46:MH:58:ARG:HG2	1.86	0.57
46:ML:371:SER:O	46:ML:422:TYR:OH	2.17	0.57
45:NE:19:ALA:O	45:NE:22:GLU:HG2	2.05	0.57
46:NJ:330:MET:HA	46:NJ:333:VAL:HG12	1.87	0.57
45:NM:426:ALA:O	45:NM:430:LYS:HG2	2.05	0.57
45:OG:55:GLU:HG3	45:OG:57:GLY:H	1.68	0.57
45:OM:207:GLU:HA	45:OM:210:TYR:HB2	1.86	0.57
46:PD:68:LEU:HD12	46:PD:93:GLY:HA3	1.87	0.57
47:PI:501:GTP:O1G	46:PJ:252:LYS:NZ	2.38	0.57
46:PN:73:MET:HA	46:PN:76:VAL:HG12	1.86	0.57
45:RA:328:VAL:HG11	45:RA:353:VAL:HG21	1.87	0.57
46:RN:67:ASP:O	46:RN:92:PHE:HA	2.04	0.57
46:SB:91:VAL:HG21	46:SB:116:VAL:HB	1.85	0.57
46:SD:143:THR:O	46:SD:147:MET:HG2	2.05	0.57
46:SD:248:SER:OG	46:SD:350:LYS:NZ	2.22	0.57
45:SG:215:ARG:NH2	45:SG:300:ASN:OD1	2.37	0.57
46:SJ:200:MET:HE1	46:SJ:268:ILE:HG12	1.87	0.57
46:SN:135:ILE:HG13	46:SN:152:ILE:HD11	1.87	0.57
45:TG:287:SER:HA	45:TG:373:ARG:HH22	1.69	0.57
46:TJ:268:ILE:N	46:TJ:299:MET:HE1	2.20	0.57
46:TN:148:GLY:O	46:TN:152:ILE:HG12	2.04	0.57
46:UD:207:LEU:HB3	46:UD:225:LEU:HD22	1.87	0.57
46:VD:67:ASP:O	46:VD:92:PHE:HA	2.04	0.57
45:VI:70:LEU:HD13	45:VI:95:GLY:HA3	1.84	0.57
45:VK:352:LYS:HZ3	46:VN:179:VAL:H	1.52	0.57
45:VM:76:ASP:OD1	45:VM:79:ARG:NH2	2.33	0.57
45:WA:191:THR:O	45:WA:195:LEU:HG	2.05	0.57
46:WD:97:ALA:HB3	46:WD:143:THR:HG22	1.86	0.57
45:WE:211:ASP:O	45:WE:215:ARG:HG3	2.05	0.57
45:WI:51:THR:HG21	45:WI:243:ARG:HB3	1.86	0.57
46:WJ:207:LEU:HB3	46:WJ:225:LEU:HD22	1.86	0.57
46:WN:173:PRO:HD2	46:WN:380:ARG:CZ	2.34	0.57
4:OD:95:GLN:NE2	45:EC:364:PRO:HB2	2.18	0.57
18:1I:152:LYS:HZ3	45:KE:364:PRO:HG2	1.67	0.57
19:1J:171:TYR:CE2	46:HH:53:GLU:HB3	2.40	0.57
34:5R:182:ASP:OD1	34:5R:183:CYS:N	2.37	0.57
35:5S:186:ILE:HG13	35:5S:187:LEU:HD22	1.86	0.57
34:7R:469:LYS:HE2	34:7R:472:GLU:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AD:8:GLN:HE21	46:AD:65:LEU:HD11	1.69	0.57
46:AD:309:ARG:NH2	46:AD:426:GLN:O	2.27	0.57
45:AI:69:ASP:OD1	45:AI:70:LEU:N	2.38	0.57
45:AK:73:THR:HA	46:AL:46:ARG:NH2	2.19	0.57
46:BB:135:ILE:HG13	46:BB:152:ILE:HD11	1.85	0.57
46:BD:207:LEU:HB3	46:BD:225:LEU:HD22	1.87	0.57
45:BM:11:GLN:NE2	46:BN:245:GLN:O	2.37	0.57
45:CG:296:PHE:HE2	45:CG:335:ILE:HG21	1.69	0.57
46:CN:330:MET:SD	46:CN:351:SER:OG	2.61	0.57
46:DJ:187:LEU:HD21	46:DJ:408:PHE:CE2	2.40	0.57
46:FB:242:PHE:HB3	46:FB:356:ILE:HD13	1.87	0.57
46:FF:135:ILE:HG13	46:FF:152:ILE:HD11	1.85	0.57
45:FG:294:SER:HA	45:FG:297:GLU:OE1	2.05	0.57
45:FI:11:GLN:HG3	45:FI:74:VAL:HG11	1.85	0.57
45:GE:188:ILE:HD12	45:GE:425:LEU:HD11	1.85	0.57
46:GH:293:MET:HE2	46:GH:365:VAL:HG11	1.85	0.57
46:HH:167:PHE:HE2	46:HH:233:MET:HG3	1.70	0.57
46:HJ:3:GLU:OE2	46:HJ:127:CYS:HB2	2.05	0.57
46:HL:97:ALA:HA	46:HL:103:LYS:HD2	1.86	0.57
45:HM:135:PHE:HB2	45:HM:166:LYS:HG2	1.87	0.57
46:HN:257:LEU:HD11	46:HN:314:SER:HB3	1.86	0.57
46:IB:164:MET:SD	46:IB:197:ASP:N	2.72	0.57
45:II:209:ILE:HG13	45:II:302:MET:HG2	1.86	0.57
45:JE:127:ASP:OD1	45:JE:128:ASN:N	2.38	0.57
45:JI:89:PRO:HB2	45:KI:280:LYS:HZ3	1.70	0.57
45:JK:287:SER:HA	45:JK:373:ARG:HH21	1.68	0.57
46:KB:334:GLN:HE22	46:KB:348:ASN:H	1.52	0.57
45:KG:326:LYS:NZ	46:KJ:208:TYR:HB3	2.20	0.57
45:LG:285:GLN:NE2	45:LG:290:GLU:OE2	2.37	0.57
45:LM:361:THR:O	45:LM:370:LYS:NZ	2.38	0.57
46:MB:221:THR:HG23	46:MB:224:ASP:H	1.69	0.57
45:MC:264:ARG:NH1	45:MC:424:ASP:OD2	2.37	0.57
46:MD:207:LEU:HB3	46:MD:225:LEU:HD22	1.86	0.57
45:MG:322:ASP:OD1	45:MG:373:ARG:NH1	2.38	0.57
46:MJ:200:MET:HE3	46:MJ:268:ILE:HD13	1.85	0.57
46:MJ:371:SER:O	46:MJ:422:TYR:OH	2.18	0.57
46:NB:222:TYR:O	46:NB:226:ASN:ND2	2.37	0.57
46:ND:8:GLN:HE21	46:ND:65:LEU:HG	1.68	0.57
46:NH:326:VAL:O	46:NH:330:MET:HG2	2.03	0.57
45:NM:259:LEU:HD13	45:NM:268:MET:HE2	1.86	0.57
45:PA:292:THR:HG21	45:PA:331:SER:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:350:GLY:HA2	46:PH:179:VAL:HG12	1.86	0.57
45:PM:222:PRO:HG2	46:PN:324:LYS:HE2	1.85	0.57
45:QA:1:MET:SD	46:QB:94:GLN:NE2	2.78	0.57
45:QA:19:ALA:O	45:QA:229:ARG:NH2	2.38	0.57
45:QI:11:GLN:OE1	47:QI:501:GTP:N7	2.37	0.57
45:QK:199:ASP:HB3	45:QK:256:GLN:HG3	1.87	0.57
45:RC:15:GLN:NE2	47:RC:501:GTP:O6	2.37	0.57
46:RL:6:HIS:O	46:RL:63:ALA:HA	2.04	0.57
45:RM:319:TYR:HB3	45:RM:323:VAL:HG11	1.86	0.57
46:SB:1:MET:SD	46:SB:2:ARG:HG2	2.45	0.57
46:SB:116:VAL:HA	46:SB:119:VAL:HG12	1.87	0.57
46:SB:334:GLN:HA	46:SB:341:PHE:CE2	2.37	0.57
45:SG:252:ILE:HA	45:SG:255:PHE:CE2	2.39	0.57
45:SI:254:GLU:HG2	46:SJ:98:GLY:HA2	1.85	0.57
46:TB:135:ILE:HB	46:TB:166:THR:HG22	1.85	0.57
46:TD:21:TRP:HA	46:TD:24:ILE:HG22	1.87	0.57
46:TD:385:PHE:HZ	46:TD:408:PHE:CD2	2.16	0.57
45:UC:196:GLU:OE2	45:UC:197:HIS:NE2	2.38	0.57
45:UI:101:ASN:HA	45:UI:144:GLY:H	1.69	0.57
46:UJ:190:HIS:CD2	46:UJ:411:ALA:HA	2.39	0.57
46:UN:377:MET:HG3	46:UN:380:ARG:HH21	1.69	0.57
45:VC:111:GLY:O	45:VC:115:VAL:HG13	2.05	0.57
45:VC:288:VAL:HG21	45:VC:327:ASP:HB3	1.86	0.57
45:WA:50:ASN:O	45:WA:64:ARG:NH1	2.38	0.57
46:WD:5:VAL:HG12	46:WD:62:ARG:HD3	1.86	0.57
46:WN:420:SER:O	46:WN:424:GLN:HG2	2.05	0.57
4:0D:171:LEU:HD23	45:EC:79:ARG:NH2	2.20	0.57
12:2T:97:ARG:HH22	45:MG:416:GLY:HA3	1.69	0.57
35:4S:211:ASN:HB3	35:4S:217:LEU:HD11	1.87	0.57
36:5B:71:SER:O	46:NF:359:LYS:NZ	2.27	0.57
37:5H:56:VAL:HA	46:ON:276:ARG:HH11	1.69	0.57
37:5H:91:ASN:OD1	37:5H:92:GLN:N	2.37	0.57
45:AC:217:LEU:HB3	45:AC:219:ILE:HG12	1.86	0.57
46:AD:132:GLY:HA2	46:AD:162:ARG:HG3	1.87	0.57
46:AL:67:ASP:O	46:AL:92:PHE:HA	2.04	0.57
46:BF:20:PHE:O	46:BF:24:ILE:HG12	2.05	0.57
45:BK:352:LYS:HZ1	46:BN:179:VAL:H	1.52	0.57
45:BM:132:LEU:HD22	45:BM:164:LYS:HZ3	1.70	0.57
46:BN:293:MET:SD	46:BN:365:VAL:HG11	2.44	0.57
46:BN:309:ARG:NH2	46:BN:426:GLN:O	2.37	0.57
46:CN:67:ASP:O	46:CN:92:PHE:HA	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DH:257:LEU:HB3	46:DH:266:PHE:HZ	1.70	0.57
45:DI:326:LYS:HE2	46:DJ:220:PRO:HD2	1.85	0.57
46:DL:222:TYR:O	46:DL:226:ASN:ND2	2.24	0.57
46:DN:208:TYR:HE2	46:DN:225:LEU:HD11	1.69	0.57
46:EF:324:LYS:CE	45:EG:222:PRO:HD2	2.34	0.57
45:EI:318:MET:HB2	45:EI:376:CYS:SG	2.44	0.57
46:GN:289:LEU:HD11	46:GN:363:MET:HG3	1.85	0.57
46:HN:260:PHE:HB2	46:HN:263:LEU:HD13	1.85	0.57
45:IM:128:ASN:OD1	45:IM:129:CYS:N	2.37	0.57
46:IN:18:ALA:O	46:IN:22:GLU:HG3	2.05	0.57
46:JJ:399:THR:HA	46:JJ:403:MET:HB2	1.86	0.57
45:KG:70:LEU:HB2	45:KG:98:ASP:HA	1.86	0.57
45:KK:288:VAL:HA	45:KK:291:ILE:HG12	1.87	0.57
46:KL:318:ARG:HH21	46:KL:358:PRO:HG3	1.70	0.57
45:KM:75:ILE:HD13	45:KM:94:SER:HB3	1.85	0.57
45:LE:31:GLN:NE2	45:LE:35:GLN:O	2.38	0.57
46:LH:101:TRP:HE1	46:LH:188:SER:HG	1.48	0.57
46:LJ:344:TRP:CE3	46:LJ:345:ILE:HG23	2.39	0.57
45:LM:264:ARG:NH2	45:LM:431:ASP:OD2	2.30	0.57
45:ME:324:VAL:HG11	45:ME:326:LYS:HE3	1.86	0.57
46:MF:67:ASP:OD1	46:MF:68:LEU:N	2.36	0.57
46:ML:282:ARG:NH2	46:ML:292:GLN:OE1	2.38	0.57
46:ND:64:ILE:HD13	46:ND:119:VAL:HG13	1.87	0.57
46:NF:154:LYS:O	46:NF:157:GLU:HG3	2.04	0.57
45:NG:258:ASN:HB3	45:NG:352:LYS:HZ2	1.70	0.57
46:NH:25:SER:OG	46:NH:30:ILE:O	2.22	0.57
45:NK:329:ASN:ND2	46:NN:175:VAL:HG12	2.20	0.57
46:NN:372:THR:HA	46:NN:422:TYR:HE1	1.69	0.57
45:OC:70:LEU:HD13	45:OC:95:GLY:HA3	1.85	0.57
46:OF:109:GLY:O	46:OF:113:ILE:HG23	2.05	0.57
45:OI:297:GLU:OE2	45:OI:298:PRO:HD2	2.03	0.57
45:PA:221:ARG:NH1	46:PB:325:GLU:HB3	2.19	0.57
45:PA:319:TYR:HB3	45:PA:323:VAL:HG21	1.86	0.57
46:PH:173:PRO:HA	46:PH:176:SER:HB3	1.85	0.57
46:PJ:289:LEU:HD11	46:PJ:363:MET:HG3	1.86	0.57
46:PJ:294:PHE:HE2	46:PJ:333:VAL:HG11	1.69	0.57
45:PK:259:LEU:O	45:PK:380:ASN:ND2	2.37	0.57
46:QB:134:GLN:HE22	46:QB:136:THR:HG22	1.69	0.57
46:QD:51:TYR:HB3	46:QD:59:TYR:HB3	1.85	0.57
46:QJ:47:ILE:HD12	46:QJ:59:TYR:HE2	1.70	0.57
45:QK:352:LYS:HE3	46:QL:179:VAL:HG13	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RB:280:GLN:HG2	46:RB:281:TYR:HD1	1.69	0.57
46:RB:423:GLN:NE2	46:RB:427:ASP:OD2	2.37	0.57
45:RG:269:LEU:HG	45:RG:301:MET:HE2	1.86	0.57
45:RI:212:ILE:HD11	45:RI:300:ASN:HA	1.85	0.57
46:RJ:2:ARG:H	46:RJ:129:CYS:HG	1.53	0.57
45:RK:119:LEU:HA	45:RK:122:ILE:HG22	1.87	0.57
46:SD:192:LEU:HD21	46:SD:199:CYS:SG	2.44	0.57
46:SL:350:LYS:HZ1	45:SM:181:VAL:H	1.52	0.57
45:TA:108:TYR:HA	45:TA:112:LYS:HE3	1.87	0.57
45:TE:141:VAL:HG11	45:TE:172:TYR:CD1	2.40	0.57
46:UB:91:VAL:HG21	46:UB:116:VAL:HG12	1.87	0.57
46:VB:189:VAL:HA	46:VB:192:LEU:HB2	1.86	0.57
45:VC:399:TYR:O	45:VC:402:ARG:NH1	2.37	0.57
46:VN:65:LEU:HB3	46:VN:73:MET:HE2	1.86	0.57
45:WA:221:ARG:NH1	46:WB:324:LYS:HE3	2.20	0.57
45:WE:51:THR:HG21	45:WE:243:ARG:HB3	1.86	0.57
45:WG:254:GLU:OE1	46:WJ:99:ASN:ND2	2.37	0.57
46:WH:221:THR:HG23	46:WH:224:ASP:H	1.70	0.57
1:0A:52:THR:HG21	34:7R:71:LYS:HB2	1.87	0.57
2:0B:236:ILE:O	46:JL:276:ARG:NH2	2.28	0.57
4:0D:212:ASN:HB3	34:7R:433:GLN:HE22	1.67	0.57
20:1K:158:THR:HG22	45:GC:370:LYS:NZ	2.20	0.57
25:1R:236:MET:HE2	46:BF:92:PHE:HE2	1.68	0.57
15:4X:122:LEU:HB3	15:4X:126:ARG:HH12	1.69	0.57
36:5B:43:CYS:SG	46:KF:391:ARG:NE	2.78	0.57
36:5D:82:ASP:OD2	46:NN:320:ARG:NH1	2.38	0.57
37:5E:132:THR:OG1	46:OD:276:ARG:NH1	2.38	0.57
35:5S:75:PRO:HB3	35:5S:91:LEU:HD12	1.86	0.57
39:6F:127:TRP:O	46:IH:359:LYS:HE2	2.05	0.57
34:7R:564:ILE:HD11	34:7R:600:LEU:HD13	1.87	0.57
45:AA:176:GLN:NE2	45:AA:207:GLU:OE2	2.38	0.57
46:BH:238:CYS:SG	46:BH:239:CYS:N	2.78	0.57
45:BM:223:THR:HG23	45:BM:225:THR:H	1.69	0.57
46:BN:173:PRO:HD2	46:BN:380:ARG:NH2	2.19	0.57
46:CB:322:SER:OG	45:CC:221:ARG:NH1	2.37	0.57
46:CH:16:ILE:HD12	46:CH:229:VAL:HG11	1.86	0.57
45:DG:184:PRO:O	45:DG:188:ILE:HG12	2.05	0.57
45:EC:101:ASN:HA	45:EC:144:GLY:H	1.70	0.57
45:EC:326:LYS:HG2	46:ED:212:PHE:HE2	1.66	0.57
46:FB:309:ARG:NH1	46:FB:342:VAL:HA	2.20	0.57
45:FI:3:GLU:OE2	45:FI:64:ARG:NH1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FN:55:THR:HG23	46:GN:283:ALA:HA	1.87	0.57
45:GA:121:ARG:HA	45:GA:124:LYS:NZ	2.20	0.57
45:GK:371:VAL:HG12	45:GK:373:ARG:H	1.69	0.57
46:HD:67:ASP:O	46:HD:92:PHE:HA	2.05	0.57
46:HH:100:ASN:ND2	46:HH:401:GLU:OE1	2.37	0.57
46:HN:100:ASN:ND2	46:HN:401:GLU:OE1	2.37	0.57
46:IN:139:LEU:HD13	46:IN:168:SER:HB3	1.87	0.57
46:JL:267:MET:HE1	46:JL:305:PRO:HG3	1.87	0.57
46:KH:213:ARG:HD2	46:KH:297:LYS:HD3	1.86	0.57
46:MD:274:THR:HB	46:MD:282:ARG:HH11	1.69	0.57
45:ME:221:ARG:NH1	46:MF:325:GLU:OE2	2.38	0.57
46:MJ:101:TRP:HB2	46:MJ:184:ASN:OD1	2.04	0.57
46:ML:222:TYR:O	46:ML:226:ASN:ND2	2.29	0.57
45:MM:27:GLU:OE1	45:MM:243:ARG:NH1	2.33	0.57
46:NF:7:ILE:HG23	46:NF:135:ILE:HG12	1.87	0.57
46:OB:10:GLY:O	46:OB:14:ASN:ND2	2.38	0.57
45:OE:398:MET:HE1	46:OF:345:ILE:HA	1.85	0.57
45:PM:23:LEU:HD21	45:PM:233:GLN:OE1	2.05	0.57
45:PM:135:PHE:HB2	45:PM:166:LYS:HG2	1.87	0.57
45:QC:60:LYS:NZ	45:QC:61:HIS:O	2.37	0.57
45:QC:296:PHE:CE2	45:QC:335:ILE:HD13	2.40	0.57
45:QI:248:LEU:HB2	45:QI:355:ILE:HG22	1.86	0.57
46:QL:150:LEU:O	46:QL:154:LYS:HG2	2.05	0.57
46:QL:190:HIS:CE1	46:QL:414:ASN:HD22	2.23	0.57
45:QM:135:PHE:HB2	45:QM:166:LYS:HG2	1.86	0.57
45:RG:259:LEU:HD11	45:RG:316:SER:HB2	1.87	0.57
46:RN:309:ARG:NH2	46:RN:426:GLN:O	2.35	0.57
45:SC:75:ILE:HD13	45:SC:94:SER:HB2	1.86	0.57
46:SD:222:TYR:O	46:SD:226:ASN:ND2	2.28	0.57
46:SD:247:ASN:OD1	45:SE:11:GLN:NE2	2.38	0.57
45:SK:174:SER:HB2	45:SK:177:VAL:HB	1.86	0.57
46:SL:86:ARG:HH22	46:TL:282:ARG:HA	1.68	0.57
46:SL:257:LEU:HB3	46:SL:266:PHE:HE1	1.69	0.57
45:TC:99:ALA:C	45:TC:105:ARG:HH21	2.07	0.57
45:TC:108:TYR:HA	45:TC:112:LYS:HE3	1.86	0.57
45:TI:115:VAL:HG11	45:TI:152:LEU:HD23	1.87	0.57
46:UB:213:ARG:HB2	46:UB:297:LYS:NZ	2.20	0.57
46:UJ:67:ASP:O	46:UJ:92:PHE:HA	2.04	0.57
46:UJ:248:SER:HA	46:UJ:252:LYS:HD2	1.86	0.57
45:WA:75:ILE:HD12	45:WA:92:LEU:HD12	1.85	0.57
45:WE:127:ASP:OD1	45:WE:128:ASN:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WE:214:ARG:HE	45:WE:220:GLU:HA	1.70	0.57
45:WE:287:SER:O	45:WE:291:ILE:HG12	2.04	0.57
45:WM:328:VAL:HG11	45:WM:353:VAL:HG21	1.87	0.57
4:0D:99:ARG:NH2	45:EC:365:GLY:H	2.03	0.57
9:0N:265:ASN:HB2	45:KK:42:ILE:HD13	1.86	0.57
21:2L:407:VAL:HG12	46:CN:320:ARG:HD2	1.86	0.57
14:2V:22:ARG:NH2	45:ME:422:ARG:HE	2.03	0.57
27:4C:225:THR:O	45:KM:221:ARG:NH2	2.37	0.57
35:4S:209:ARG:NH1	46:WD:115:SER:HA	2.20	0.57
34:5R:325:LYS:HD3	34:5R:326:GLU:H	1.69	0.57
46:AF:226:ASN:HD21	49:AF:501:GDP:HN1	1.50	0.57
46:AH:36:TYR:CZ	46:AH:44:LEU:HD11	2.40	0.57
45:BA:108:TYR:HA	45:BA:112:LYS:HE3	1.87	0.57
45:BC:292:THR:HG21	45:BC:331:SER:HB3	1.86	0.57
45:BI:98:ASP:OD1	45:BI:99:ALA:N	2.38	0.57
46:BL:139:LEU:HD13	46:BL:168:SER:HB3	1.87	0.57
46:CF:86:ARG:NH2	46:DF:280:GLN:HB2	2.19	0.57
46:CH:222:TYR:O	46:CH:226:ASN:ND2	2.31	0.57
46:CL:2:ARG:HH22	45:CM:71:GLU:HA	1.70	0.57
46:CL:158:GLU:HG3	46:CL:159:TYR:CD2	2.40	0.57
46:DD:327:ASP:HA	46:DD:330:MET:HE1	1.86	0.57
45:DM:176:GLN:HG2	45:DM:177:VAL:HG23	1.87	0.57
45:EG:329:ASN:ND2	46:EH:205:GLU:OE2	2.38	0.57
45:EI:55:GLU:OE2	45:EI:61:HIS:NE2	2.38	0.57
45:FA:11:GLN:HG3	45:FA:74:VAL:HG11	1.87	0.57
46:FH:167:PHE:CE1	46:FH:233:MET:HG2	2.39	0.57
45:FK:169:PHE:HB3	45:FK:204:LEU:HD11	1.87	0.57
45:FK:311:LYS:HA	45:FK:342:GLN:HE22	1.70	0.57
45:IA:258:ASN:HB3	45:IA:352:LYS:HD2	1.87	0.57
46:IB:32:PRO:O	46:IB:83:GLN:NE2	2.38	0.57
46:IB:237:THR:HG23	46:IB:241:ARG:HH21	1.70	0.57
46:IF:238:CYS:SG	46:IF:239:CYS:N	2.78	0.57
45:IG:331:SER:O	45:IG:335:ILE:HG12	2.04	0.57
45:IM:14:ILE:O	45:IM:18:ASN:ND2	2.37	0.57
45:IM:69:ASP:OD1	45:IM:70:LEU:N	2.38	0.57
45:JA:113:GLU:OE2	45:JA:113:GLU:N	2.35	0.57
46:JH:73:MET:HA	46:JH:76:VAL:HG12	1.86	0.57
45:JI:100:ALA:HA	46:JJ:252:LYS:HG2	1.85	0.57
45:JK:245:ASP:OD1	45:JK:246:GLY:N	2.38	0.57
45:KG:271:SER:HB3	45:KG:377:MET:HB3	1.85	0.57
46:KH:207:LEU:HB3	46:KH:225:LEU:HD22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KI:339:ARG:NH2	45:KI:340:THR:HA	2.20	0.57
46:KJ:39:ASP:OD1	46:KJ:40:SER:N	2.37	0.57
45:KK:439:THR:HG22	46:KN:391:ARG:HD3	1.87	0.57
46:LH:68:LEU:HB3	46:LH:96:GLY:HA2	1.86	0.57
45:MA:399:TYR:OH	45:MA:402:ARG:NH2	2.38	0.57
46:MD:401:GLU:N	46:MD:401:GLU:OE2	2.38	0.57
45:MI:64:ARG:NH1	45:MI:129:CYS:SG	2.78	0.57
45:MM:212:ILE:HD11	45:MM:300:ASN:HA	1.86	0.57
45:OA:70:LEU:HD13	45:OA:95:GLY:HA3	1.87	0.57
46:OH:113:ILE:HD13	46:OH:150:LEU:HD21	1.87	0.57
45:OI:101:ASN:HA	45:OI:144:GLY:H	1.69	0.57
45:PA:103:PHE:HD1	45:PA:413:MET:HE1	1.70	0.57
45:PK:90:GLU:HG3	45:PK:121:ARG:NH1	2.20	0.57
46:PL:273:LEU:H	46:PL:292:GLN:NE2	2.01	0.57
46:QB:187:LEU:HD21	46:QB:408:PHE:HE2	1.69	0.57
46:SB:167:PHE:CZ	46:SB:233:MET:HG2	2.40	0.57
45:SE:81:GLY:O	45:SE:84:ARG:HD3	2.05	0.57
46:SJ:213:ARG:HH21	46:SJ:297:LYS:HB3	1.69	0.57
45:TC:287:SER:HB3	45:TC:290:GLU:HG2	1.85	0.57
46:TD:313:ALA:HB3	46:TD:349:ILE:HG12	1.85	0.57
46:TF:207:LEU:HB3	46:TF:225:LEU:HD22	1.87	0.57
46:TL:324:LYS:HG2	45:TM:210:TYR:CD2	2.39	0.57
46:UD:322:SER:H	45:UE:221:ARG:NH1	2.03	0.57
45:VA:288:VAL:HG21	45:VA:327:ASP:HB3	1.87	0.57
46:VD:285:THR:HB	46:VD:287:PRO:HD2	1.86	0.57
45:VE:407:TRP:HE1	46:VF:258:ILE:HG13	1.70	0.57
46:VJ:318:ARG:HB3	46:VJ:357:PRO:HA	1.87	0.57
45:WG:69:ASP:OD1	45:WG:70:LEU:N	2.38	0.57
45:DC:5:ILE:HG21	45:DC:122:ILE:HD11	1.87	0.57
20:1K:245:TRP:CE3	46:GB:280:GLN:HG2	2.40	0.57
1:2A:83:LEU:C	34:5R:70:ARG:HH12	2.08	0.57
21:3L:43:GLN:HB2	46:BB:357:PRO:HD2	1.86	0.57
33:4F:119:VAL:HG22	46:IL:359:LYS:NZ	2.19	0.57
37:5H:78:LEU:HD21	37:5H:97:ARG:HG2	1.86	0.57
45:AG:164:LYS:O	45:AG:166:LYS:NZ	2.38	0.57
46:DB:350:LYS:HZ1	45:DC:180:ALA:HA	1.69	0.57
46:DF:118:ASP:OD1	46:DF:119:VAL:N	2.37	0.57
46:DL:86:ARG:NH1	46:EL:281:TYR:HB2	2.20	0.57
46:DL:255:VAL:HA	45:DM:407:TRP:CE2	2.40	0.57
46:EF:192:LEU:HD21	46:EF:199:CYS:SG	2.45	0.57
46:EN:207:LEU:HB3	46:EN:225:LEU:HD22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FA:292:THR:HG21	45:FA:331:SER:HB3	1.86	0.57
45:GA:89:PRO:HG2	45:HA:280:LYS:HD3	1.87	0.57
45:GA:352:LYS:NZ	46:GD:178:THR:HA	2.20	0.57
46:GD:377:MET:SD	46:GD:380:ARG:NH2	2.78	0.57
45:GE:241:SER:OG	45:GE:250:VAL:O	2.23	0.57
46:GH:318:ARG:HH11	46:GH:358:PRO:HG3	1.69	0.57
46:HF:205:GLU:HA	46:HF:208:TYR:HD2	1.70	0.57
45:IC:175:PRO:HG2	45:IC:304:LYS:HD2	1.86	0.57
45:IK:292:THR:HG21	45:IK:331:SER:HB3	1.84	0.57
46:KB:39:ASP:OD1	46:KB:40:SER:N	2.36	0.57
46:KN:125:GLU:OE2	46:KN:159:TYR:OH	2.21	0.57
45:LG:254:GLU:HG2	46:LJ:98:GLY:HA2	1.86	0.57
46:LH:101:TRP:NE1	46:LH:188:SER:OG	2.35	0.57
46:LH:148:GLY:O	46:LH:152:ILE:HG12	2.03	0.57
46:LH:318:ARG:HB3	46:LH:357:PRO:HA	1.85	0.57
46:LJ:132:GLY:HA3	46:LJ:163:ILE:HG22	1.87	0.57
45:LK:181:VAL:HG22	46:LL:256:ASN:OD1	2.03	0.57
45:LK:226:ASN:ND2	45:LK:367:ASP:OD2	2.38	0.57
46:LL:101:TRP:HB2	46:LL:184:ASN:HB3	1.86	0.57
46:MB:5:VAL:HG12	46:MB:62:ARG:HD3	1.86	0.57
45:MK:176:GLN:HG2	45:MK:177:VAL:HG23	1.87	0.57
45:NE:90:GLU:CD	45:OE:280:LYS:HE2	2.24	0.57
45:NK:296:PHE:HE1	45:NK:377:MET:HG3	1.70	0.57
46:NL:167:PHE:CD1	46:NL:200:MET:HB3	2.40	0.57
45:OC:46:ASP:OD1	45:OC:47:ASP:N	2.38	0.57
47:OM:501:GTP:O1G	46:ON:252:LYS:NZ	2.30	0.57
46:ON:134:GLN:HB2	46:ON:165:GLU:OE2	2.04	0.57
46:ON:248:SER:HA	46:ON:252:LYS:HD2	1.86	0.57
46:ON:285:THR:HB	46:ON:287:PRO:HD2	1.86	0.57
45:PA:318:MET:HB3	45:PA:376:CYS:SG	2.45	0.57
45:PC:27:GLU:HB3	45:PC:361:THR:HG21	1.86	0.57
45:PC:288:VAL:HG11	45:PC:327:ASP:HB3	1.85	0.57
46:PJ:405:GLU:OE2	46:PJ:409:THR:OG1	2.22	0.57
45:QE:171:ILE:O	45:QE:171:ILE:HG13	2.05	0.57
45:QI:68:LEU:HG	45:QI:93:ILE:HB	1.87	0.57
46:QL:257:LEU:HD11	46:QL:314:SER:HB2	1.86	0.57
46:RD:221:THR:HG23	46:RD:224:ASP:H	1.70	0.57
46:SB:67:ASP:O	46:SB:92:PHE:HA	2.05	0.57
46:SB:73:MET:HA	46:SB:76:VAL:HG22	1.85	0.57
45:SK:90:GLU:OE2	45:TK:215:ARG:NH2	2.38	0.57
46:SL:253:LEU:O	46:SL:257:LEU:HB2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TF:109:GLY:O	46:TF:113:ILE:HG23	2.05	0.57
45:TG:91:GLN:HG3	45:TG:121:ARG:HD2	1.86	0.57
46:TH:192:LEU:HD21	46:TH:199:CYS:SG	2.45	0.57
46:TH:269:GLY:HA2	46:TH:300:MET:HG2	1.87	0.57
45:TK:280:LYS:HA	45:TK:283:HIS:CD2	2.35	0.57
45:UA:216:ASN:HB3	45:UA:276:ILE:HA	1.86	0.57
46:UJ:290:THR:HA	46:UJ:293:MET:HG2	1.87	0.57
45:UM:337:THR:O	45:UM:339:ARG:NH1	2.38	0.57
46:WH:209:ASP:HB3	46:WH:213:ARG:HH22	1.69	0.57
45:WI:326:LYS:HA	45:WI:326:LYS:HE2	1.86	0.57
45:CE:167:LEU:HD13	45:CE:200:VAL:HB	1.87	0.57
12:OT:65:ARG:HH21	46:MB:111:GLU:HB3	1.70	0.56
17:1F:121:ARG:NH1	45:GI:77:GLU:OE1	2.38	0.56
21:2L:901:LYS:HD2	46:CJ:320:ARG:NH2	2.19	0.56
34:4R:432:SER:OG	34:4R:433:GLN:N	2.33	0.56
34:4R:547:GLU:HA	34:4R:550:VAL:HG12	1.87	0.56
36:5B:102:TYR:CZ	45:KE:394:LYS:HE3	2.39	0.56
35:5S:68:TYR:CD2	35:5S:104:ILE:HG21	2.40	0.56
34:6R:223:PRO:O	34:6R:226:LYS:NZ	2.37	0.56
46:AB:65:LEU:HD22	46:AB:90:PHE:HE1	1.70	0.56
46:AB:371:SER:O	46:AB:422:TYR:OH	2.13	0.56
46:AD:322:SER:OG	46:AD:325:GLU:OE1	2.20	0.56
45:AM:116:ASP:OD1	45:AM:117:LEU:N	2.38	0.56
45:AM:135:PHE:HB2	45:AM:166:LYS:HG2	1.87	0.56
46:BB:222:TYR:O	46:BB:226:ASN:ND2	2.28	0.56
46:BF:332:ASN:O	46:BF:336:LYS:HG3	2.05	0.56
46:CN:86:ARG:HD2	46:DN:281:TYR:HB2	1.87	0.56
46:DL:350:LYS:HZ1	45:DM:181:VAL:N	2.03	0.56
46:EB:316:LEU:HD23	46:EB:352:SER:HB2	1.86	0.56
46:EH:52:ASN:OD1	46:EH:62:ARG:NH2	2.38	0.56
46:EH:67:ASP:O	46:EH:92:PHE:HA	2.04	0.56
46:EJ:130:LEU:HB2	46:EJ:162:ARG:HE	1.70	0.56
46:EL:55:THR:HG23	46:FL:283:ALA:HA	1.87	0.56
46:EL:209:ASP:HB3	46:EL:213:ARG:HH21	1.69	0.56
45:FA:395:PHE:HZ	45:FA:418:PHE:HB3	1.70	0.56
45:FC:390:ARG:HG3	45:FC:391:LEU:HD12	1.85	0.56
45:GC:239:THR:HG23	45:GC:242:LEU:HD12	1.87	0.56
45:GE:221:ARG:HA	46:GF:324:LYS:HE2	1.87	0.56
45:GK:115:VAL:O	45:GK:119:LEU:HG	2.05	0.56
46:GL:25:SER:HG	46:GL:51:TYR:HH	1.52	0.56
46:HB:38:GLY:HA3	46:HB:43:GLN:HE22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HD:25:SER:OG	46:HD:30:ILE:O	2.23	0.56
46:HD:99:ASN:HA	46:HD:142:GLY:H	1.68	0.56
46:HH:326:VAL:O	46:HH:330:MET:HG2	2.05	0.56
46:HL:377:MET:SD	46:HL:380:ARG:NH2	2.78	0.56
46:IF:5:VAL:HG12	46:IF:62:ARG:HD3	1.85	0.56
45:IM:98:ASP:O	45:IM:105:ARG:NH2	2.38	0.56
46:JB:10:GLY:O	46:JB:14:ASN:ND2	2.37	0.56
45:JC:68:LEU:HD11	45:JC:118:CYS:SG	2.44	0.56
45:JI:272:TYR:HD2	45:JI:275:ILE:HD11	1.69	0.56
46:JN:375:GLN:HG3	46:JN:379:LYS:NZ	2.20	0.56
46:KB:215:LEU:HD21	46:KB:273:LEU:HD12	1.86	0.56
45:KC:5:ILE:HG21	45:KC:122:ILE:HD11	1.87	0.56
45:KE:7:ILE:HB	45:KE:137:VAL:HG12	1.87	0.56
45:KI:75:ILE:HG22	45:KI:79:ARG:HE	1.69	0.56
45:KK:11:GLN:NE2	46:KL:245:GLN:O	2.37	0.56
45:KK:167:LEU:HD23	45:KK:200:VAL:HB	1.87	0.56
45:KM:320:ARG:HD3	45:KM:360:PRO:HG3	1.85	0.56
46:KN:375:GLN:HG3	46:KN:379:LYS:NZ	2.19	0.56
45:NG:76:ASP:OD2	46:NH:46:ARG:NH2	2.38	0.56
45:NK:408:TYR:O	45:NK:413:MET:HB2	2.05	0.56
45:OC:210:TYR:HA	45:OC:213:CYS:SG	2.45	0.56
46:OD:186:THR:HA	46:OD:189:VAL:HG12	1.86	0.56
46:OH:67:ASP:OD1	46:OH:68:LEU:N	2.33	0.56
46:OL:10:GLY:O	46:OL:14:ASN:ND2	2.37	0.56
45:PA:231:ILE:O	45:PA:235:ILE:HG12	2.05	0.56
46:PF:6:HIS:O	46:PF:63:ALA:HA	2.04	0.56
45:PG:220:GLU:C	45:PG:221:ARG:HD2	2.25	0.56
46:PJ:47:ILE:HD12	46:PJ:59:TYR:HE1	1.70	0.56
45:QI:60:LYS:HE3	45:RI:283:HIS:HA	1.87	0.56
45:QK:116:ASP:OD1	45:QK:117:LEU:N	2.37	0.56
46:QL:182:PRO:HD2	46:QL:388:MET:HE2	1.87	0.56
46:RJ:294:PHE:CD1	46:RJ:333:VAL:HG11	2.40	0.56
45:RK:211:ASP:HA	45:RK:214:ARG:HG2	1.87	0.56
46:SD:100:ASN:HB3	46:SD:103:LYS:HB3	1.87	0.56
45:TE:244:PHE:HB2	45:TE:356:ASN:HD21	1.70	0.56
45:UC:387:VAL:HA	45:UC:390:ARG:HG2	1.85	0.56
46:UH:128:ASP:OD1	46:UH:129:CYS:N	2.37	0.56
45:UK:298:PRO:HA	45:UK:301:MET:HE1	1.87	0.56
46:UL:130:LEU:HG	46:UL:162:ARG:HD2	1.86	0.56
46:UL:268:ILE:HG22	46:UL:368:VAL:HG22	1.85	0.56
45:VC:251:ASP:OD1	45:VC:252:ILE:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VE:33:ASP:OD2	45:VE:35:GLN:NE2	2.38	0.56
46:VH:100:ASN:HB3	46:VH:103:LYS:HE2	1.87	0.56
45:VK:135:PHE:HB2	45:VK:166:LYS:HG2	1.87	0.56
46:VN:375:GLN:O	46:VN:379:LYS:HG2	2.05	0.56
45:WC:51:THR:HG21	45:WC:243:ARG:HB3	1.87	0.56
45:WC:180:ALA:HA	46:WD:350:LYS:HE2	1.87	0.56
45:WE:274:PRO:HB3	45:WE:291:ILE:HD12	1.87	0.56
45:WG:399:TYR:O	45:WG:402:ARG:NH1	2.38	0.56
45:WK:70:LEU:HD13	45:WK:95:GLY:HA3	1.85	0.56
45:CE:55:GLU:HG3	45:CE:57:GLY:H	1.70	0.56
2:0B:241:LEU:CD1	46:JL:227:HIS:CE1	2.87	0.56
8:1H:274:LEU:HD13	46:HF:360:GLY:H	1.70	0.56
14:1V:99:PRO:HG2	45:LI:409:VAL:HG11	1.86	0.56
14:2V:24:ARG:NH2	45:ME:433:GLU:HB2	2.18	0.56
31:3I:251:TYR:HA	45:FI:96:LYS:HE3	1.85	0.56
37:5F:54:LYS:HG2	46:OF:227:HIS:CD2	2.41	0.56
40:6G:90:ASP:OD1	45:UK:79:ARG:NH1	2.39	0.56
34:6R:477:ASN:HA	34:6R:484:PRO:HA	1.87	0.56
46:AB:118:ASP:O	46:AB:121:ARG:HG3	2.05	0.56
46:AF:324:LYS:O	46:AF:328:GLU:HG3	2.04	0.56
46:AH:19:LYS:HA	46:AH:22:GLU:OE2	2.06	0.56
46:AJ:139:LEU:HD13	46:AJ:168:SER:HB3	1.86	0.56
46:BF:377:MET:O	46:BF:380:ARG:HG2	2.05	0.56
45:BK:76:ASP:OD1	45:BK:79:ARG:NH2	2.36	0.56
45:BK:390:ARG:HG3	45:BK:391:LEU:HD12	1.87	0.56
46:CB:237:THR:OG1	46:CB:241:ARG:NH2	2.38	0.56
45:CC:192:HIS:ND1	45:CC:424:ASP:OD2	2.37	0.56
46:CD:63:ALA:O	46:CD:89:ASN:ND2	2.34	0.56
45:CK:322:ASP:OD1	45:CK:373:ARG:NH1	2.38	0.56
45:DK:345:ASP:OD1	45:DK:346:TRP:N	2.38	0.56
46:EB:131:GLN:NE2	46:EB:251:ARG:HH11	2.03	0.56
45:EC:26:LEU:HD22	45:EC:364:PRO:HD3	1.87	0.56
46:EJ:164:MET:HB3	46:EJ:197:ASP:H	1.70	0.56
46:EL:148:GLY:O	46:EL:152:ILE:HG12	2.05	0.56
46:EN:12:CYS:HA	46:EN:15:GLN:HE21	1.70	0.56
45:FA:93:ILE:HD11	45:FA:121:ARG:HG3	1.87	0.56
46:FL:67:ASP:OD1	46:FL:68:LEU:N	2.37	0.56
46:GD:304:ASP:HB3	46:GD:307:HIS:ND1	2.20	0.56
46:GJ:124:ALA:HB1	46:GJ:130:LEU:HD21	1.88	0.56
46:GN:238:CYS:SG	46:GN:239:CYS:N	2.78	0.56
45:HA:311:LYS:N	45:HA:382:THR:OG1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ID:62:ARG:O	46:ID:62:ARG:HG3	2.05	0.56
46:IH:7:ILE:HG22	46:IH:64:ILE:HB	1.86	0.56
46:IH:260:PHE:HB2	46:IH:263:LEU:HD13	1.85	0.56
46:IN:31:ASP:OD1	46:IN:35:THR:N	2.34	0.56
45:JE:88:HIS:HE1	45:JE:90:GLU:HG2	1.69	0.56
45:JG:184:PRO:HG2	45:JG:398:MET:HE1	1.87	0.56
46:JH:101:TRP:CE3	46:JH:187:LEU:HD23	2.40	0.56
46:JH:114:ASP:OD1	46:JH:115:SER:N	2.38	0.56
46:LF:73:MET:HA	46:LF:76:VAL:HG12	1.86	0.56
46:LH:1:MET:N	46:LH:48:ASN:OD1	2.38	0.56
46:LH:215:LEU:HD11	46:LH:273:LEU:HD12	1.87	0.56
45:LK:205:ASP:OD1	45:LK:303:ALA:HA	2.05	0.56
45:MA:33:ASP:HA	45:MA:85:GLN:HE21	1.69	0.56
45:MG:18:ASN:OD1	45:MG:19:ALA:N	2.37	0.56
46:ND:86:ARG:HA	46:OD:281:TYR:CD2	2.40	0.56
46:ND:236:VAL:HG13	46:ND:237:THR:HG23	1.86	0.56
45:NI:254:GLU:CD	46:NL:99:ASN:HD22	2.08	0.56
46:NL:286:VAL:HG21	46:NL:325:GLU:HG3	1.87	0.56
45:OA:179:THR:HG21	46:OB:246:LEU:HD11	1.87	0.56
45:OE:317:MET:HG2	45:OE:377:MET:HG2	1.87	0.56
46:OJ:5:VAL:HG12	46:OJ:62:ARG:HD3	1.85	0.56
45:OK:286:LEU:N	45:OK:290:GLU:OE2	2.39	0.56
46:PB:48:ASN:O	46:PB:62:ARG:NH1	2.37	0.56
46:PF:1:MET:HG2	46:PF:2:ARG:N	2.19	0.56
45:PG:251:ASP:H	45:PG:254:GLU:HG3	1.69	0.56
45:PI:352:LYS:NZ	46:PL:179:VAL:H	2.03	0.56
45:QA:311:LYS:HA	45:QA:311:LYS:HE3	1.87	0.56
46:QB:12:CYS:HA	46:QB:15:GLN:HE21	1.70	0.56
46:QB:350:LYS:NZ	46:QB:352:SER:OG	2.25	0.56
45:QC:2:ARG:HD3	45:QC:242:LEU:HD12	1.88	0.56
45:QC:14:ILE:HD11	45:QC:69:ASP:HB2	1.85	0.56
45:QG:292:THR:HG21	45:QG:331:SER:HB3	1.87	0.56
45:QI:5:ILE:HD12	45:QI:135:PHE:HE1	1.69	0.56
45:QI:171:ILE:O	45:QI:171:ILE:HG13	2.05	0.56
45:RE:171:ILE:O	45:RE:171:ILE:HG13	2.05	0.56
45:RE:244:PHE:HB2	45:RE:356:ASN:HD21	1.68	0.56
46:RF:83:GLN:O	46:SF:281:TYR:OH	2.17	0.56
46:RF:136:THR:HG23	46:RF:167:PHE:HB2	1.86	0.56
46:RH:213:ARG:HD2	46:RH:297:LYS:HD3	1.86	0.56
45:RM:99:ALA:HB3	45:RM:145:THR:HB	1.86	0.56
45:SE:31:GLN:HG3	45:SE:32:PRO:HD2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SK:123:ARG:HH21	45:TK:338:LYS:HE2	1.69	0.56
46:SN:257:LEU:HD11	46:SN:314:SER:HB2	1.87	0.56
46:TD:87:PRO:HA	46:TD:90:PHE:HD2	1.69	0.56
45:TE:101:ASN:HA	45:TE:144:GLY:H	1.69	0.56
45:TE:402:ARG:O	45:TE:402:ARG:HD3	2.05	0.56
46:TN:257:LEU:HD11	46:TN:314:SER:HB2	1.87	0.56
46:UB:46:ARG:NH2	45:UC:76:ASP:OD2	2.37	0.56
46:UF:254:ALA:O	46:UF:258:ILE:HG22	2.05	0.56
46:UF:274:THR:HB	46:UF:282:ARG:HH11	1.70	0.56
45:UI:244:PHE:HB2	45:UI:356:ASN:HD21	1.70	0.56
46:UL:313:ALA:HB1	46:UL:367:PHE:HE1	1.68	0.56
45:VA:274:PRO:HB3	45:VA:291:ILE:HD12	1.87	0.56
45:WG:265:ILE:HG12	45:WG:432:TYR:HE1	1.70	0.56
46:WJ:304:ASP:OD1	46:WJ:306:ARG:NH1	2.38	0.56
45:WK:301:MET:HG3	45:WK:303:ALA:H	1.70	0.56
45:WK:346:TRP:CD1	46:WN:391:ARG:HG3	2.40	0.56
45:WM:178:SER:OG	46:WN:347:ASN:ND2	2.35	0.56
45:WM:215:ARG:NH2	45:WM:299:ALA:O	2.38	0.56
46:WN:206:ALA:O	46:WN:210:ILE:HG12	2.05	0.56
45:CE:31:GLN:NE2	45:CE:35:GLN:O	2.39	0.56
16:1B:63:GLN:NE2	45:LC:80:THR:HB	2.20	0.56
3:1C:82:THR:O	46:EL:320:ARG:NH1	2.39	0.56
3:1C:96:LYS:NZ	45:EM:364:PRO:HB3	2.19	0.56
18:1I:141:PHE:HE2	46:KF:43:GLN:HG3	1.69	0.56
19:1J:77:TYR:CE1	45:IC:281:ALA:HB3	2.40	0.56
4:2D:93:GLN:HA	45:EK:32:PRO:HG2	1.86	0.56
30:2H:205:GLN:NE2	45:AC:81:GLY:HA2	2.20	0.56
11:2S:97:ARG:HH22	46:MJ:262:ARG:HH11	1.53	0.56
1:3A:39:TYR:HD2	45:MM:81:GLY:HA3	1.70	0.56
30:3H:193:LEU:HD22	46:AH:357:PRO:HG3	1.87	0.56
34:4R:379:LYS:HZ2	34:4R:381:PHE:HE2	1.51	0.56
34:4R:469:LYS:NZ	34:4R:472:GLU:HA	2.20	0.56
15:4X:51:GLN:HG2	15:4X:55:GLU:OE2	2.05	0.56
37:5E:145:GLU:HA	37:5E:148:GLN:OE1	2.05	0.56
37:5F:26:GLY:H	45:OC:221:ARG:HD3	1.70	0.56
37:5F:154:TYR:HD2	37:5G:11:TRP:CD1	2.24	0.56
37:5G:63:HIS:HD2	46:NJ:58:ARG:HD2	1.70	0.56
37:5G:210:THR:OG1	45:LK:431:ASP:OD2	2.15	0.56
10:5Q:57:ASN:HB2	10:5Q:158:ALA:HB2	1.87	0.56
34:5R:381:PHE:HD2	46:DJ:32:PRO:HD2	1.70	0.56
34:5R:550:VAL:O	34:5R:554:LYS:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:6F:70:ASN:HB2	46:JF:360:GLY:HA3	1.86	0.56
44:8R:234:TYR:OH	45:PE:279:GLU:O	2.14	0.56
45:AC:188:ILE:HD11	45:AC:391:LEU:HB3	1.88	0.56
45:AE:120:ASP:OD1	45:AE:123:ARG:NH2	2.35	0.56
46:AJ:74:ASP:OD1	46:AJ:77:ARG:NH2	2.39	0.56
46:AL:289:LEU:HD13	46:AL:365:VAL:HG23	1.86	0.56
45:AM:177:VAL:HG13	46:AN:327:ASP:OD2	2.06	0.56
46:BD:341:PHE:HB3	46:BD:348:ASN:HD21	1.69	0.56
45:BE:89:PRO:HD3	45:CE:283:HIS:CE1	2.40	0.56
45:BE:244:PHE:HB2	45:BE:356:ASN:HD21	1.70	0.56
45:BG:276:ILE:HD12	45:BG:281:ALA:HA	1.86	0.56
45:BG:417:GLU:HA	45:BG:420:GLU:OE1	2.05	0.56
46:BN:203:ASP:OD2	46:BN:302:ALA:N	2.29	0.56
45:CA:30:ILE:HG21	45:CA:53:PHE:HE2	1.71	0.56
46:CB:350:LYS:NZ	45:CC:181:VAL:HG12	2.20	0.56
45:CC:88:HIS:HB3	45:CC:91:GLN:NE2	2.20	0.56
46:CD:324:LYS:HE3	45:CE:210:TYR:CE1	2.40	0.56
46:CF:321:MET:HB2	45:CG:221:ARG:NH2	2.18	0.56
45:CG:69:ASP:OD1	45:CG:70:LEU:N	2.37	0.56
45:CG:254:GLU:OE1	45:CG:254:GLU:N	2.38	0.56
46:CH:392:LYS:HA	46:CH:395:LEU:HD12	1.88	0.56
46:CL:243:PRO:HB3	45:CM:77:GLU:OE2	2.04	0.56
46:DD:324:LYS:O	46:DD:328:GLU:HG2	2.05	0.56
45:DE:10:GLY:O	45:DE:13:GLY:N	2.38	0.56
46:DH:317:PHE:HB2	46:DH:353:ILE:HD13	1.87	0.56
46:DJ:317:PHE:CD1	46:DJ:365:VAL:HG22	2.40	0.56
45:DK:5:ILE:HD12	45:DK:135:PHE:HE1	1.70	0.56
46:DN:208:TYR:CE2	46:DN:225:LEU:HD11	2.40	0.56
46:ED:55:THR:HG23	46:FD:283:ALA:HA	1.87	0.56
45:EE:169:PHE:HB3	45:EE:204:LEU:HD11	1.86	0.56
46:EF:31:ASP:OD1	46:EF:35:THR:N	2.38	0.56
45:EG:77:GLU:HA	45:EG:80:THR:HG22	1.88	0.56
46:EH:268:ILE:HG13	46:EH:300:MET:HG3	1.87	0.56
46:FB:238:CYS:HA	46:FB:241:ARG:CZ	2.35	0.56
45:FC:259:LEU:HD21	45:FC:316:SER:HB3	1.85	0.56
46:FF:238:CYS:HB2	46:FF:318:ARG:NE	2.20	0.56
46:FJ:54:ALA:HA	46:GJ:283:ALA:HB2	1.87	0.56
46:FJ:86:ARG:CZ	46:GJ:282:ARG:HH12	2.19	0.56
45:FM:322:ASP:OD1	45:FM:373:ARG:NH1	2.32	0.56
46:FN:16:ILE:HD12	46:FN:229:VAL:HG11	1.86	0.56
45:GE:9:VAL:HG12	45:GE:68:LEU:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GF:68:LEU:HB3	46:GF:96:GLY:HA2	1.86	0.56
46:GF:167:PHE:CE2	46:GF:233:MET:HG2	2.40	0.56
45:GG:171:ILE:HG13	45:GG:204:LEU:O	2.05	0.56
45:GK:119:LEU:HD11	45:GK:156:ARG:HD3	1.88	0.56
46:GN:178:THR:HB	46:GN:181:GLU:HG3	1.87	0.56
45:HA:55:GLU:OE2	45:HA:57:GLY:N	2.38	0.56
46:HH:113:ILE:HD11	46:HH:151:LEU:HD13	1.86	0.56
46:HH:313:ALA:HB1	46:HH:367:PHE:HE1	1.71	0.56
45:HI:326:LYS:HZ3	46:HL:208:TYR:HB3	1.70	0.56
45:HK:340:THR:HG23	45:HK:341:ILE:HG13	1.87	0.56
45:IC:311:LYS:HZ3	45:IC:342:GLN:HG3	1.68	0.56
45:IK:8:HIS:HB2	45:IK:67:PHE:HD1	1.69	0.56
46:IN:87:PRO:HG2	45:JK:280:LYS:HG2	1.86	0.56
45:JA:241:SER:OG	45:JA:249:ASN:OD1	2.22	0.56
46:JH:2:ARG:HB2	46:JH:131:GLN:HG3	1.87	0.56
45:KC:8:HIS:CD2	45:KC:138:PHE:HD2	2.24	0.56
45:KG:221:ARG:HA	46:KH:324:LYS:CE	2.35	0.56
46:KJ:318:ARG:NH1	46:KJ:358:PRO:HG3	2.20	0.56
45:LC:51:THR:HG21	45:LC:243:ARG:HD3	1.87	0.56
45:LC:226:ASN:ND2	45:LC:367:ASP:OD2	2.38	0.56
45:LM:133:GLN:HG2	45:LM:252:ILE:HD12	1.87	0.56
45:MC:326:LYS:HA	45:MC:326:LYS:HE3	1.87	0.56
45:ME:68:LEU:HD23	45:ME:93:ILE:HB	1.88	0.56
45:ME:178:SER:HB3	46:MF:347:ASN:HD21	1.70	0.56
46:MH:318:ARG:HH11	46:MH:358:PRO:HG3	1.71	0.56
46:MH:403:MET:HB2	46:MH:407:GLU:OE2	2.05	0.56
46:MJ:99:ASN:HA	46:MJ:142:GLY:H	1.70	0.56
45:MK:226:ASN:ND2	45:MK:367:ASP:OD2	2.37	0.56
45:MM:210:TYR:CD2	46:MN:324:LYS:HE2	2.41	0.56
46:MN:286:VAL:HB	46:MN:325:GLU:HG2	1.88	0.56
46:ND:222:TYR:HA	46:ND:225:LEU:HD12	1.86	0.56
45:NE:252:ILE:HD12	45:NE:252:ILE:H	1.71	0.56
45:NG:105:ARG:NH2	45:NG:411:GLU:OE2	2.37	0.56
46:NH:68:LEU:HB3	46:NH:96:GLY:HA2	1.87	0.56
46:NH:103:LYS:O	46:NH:107:THR:OG1	2.22	0.56
45:NI:2:ARG:HB2	45:NI:133:GLN:HE21	1.69	0.56
45:NI:326:LYS:HG3	45:NI:327:ASP:N	2.18	0.56
46:NL:222:TYR:O	46:NL:226:ASN:ND2	2.23	0.56
46:NN:380:ARG:HG2	46:NN:384:GLN:HE22	1.70	0.56
45:OA:11:GLN:HG3	45:OA:15:GLN:HE22	1.70	0.56
46:OD:372:THR:HG21	46:OD:426:GLN:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OG:231:ILE:O	45:OG:235:ILE:HG12	2.04	0.56
46:ON:131:GLN:HA	46:ON:162:ARG:HH21	1.70	0.56
46:ON:266:PHE:HE1	46:ON:370:ASN:HD22	1.52	0.56
45:PA:108:TYR:HA	45:PA:112:LYS:HE3	1.87	0.56
46:PD:209:ASP:HB3	46:PD:213:ARG:HH22	1.70	0.56
46:PD:398:TYR:O	46:PD:403:MET:HB2	2.04	0.56
45:PI:119:LEU:HG	45:PI:156:ARG:HD3	1.87	0.56
46:PN:285:THR:OG1	46:PN:288:GLU:OE1	2.19	0.56
45:QA:172:TYR:HD2	45:QA:203:MET:HG3	1.70	0.56
45:QA:231:ILE:O	45:QA:235:ILE:HG12	2.04	0.56
46:QB:45:GLU:HG2	46:QB:46:ARG:HG2	1.87	0.56
45:QE:55:GLU:HG3	45:QE:57:GLY:H	1.70	0.56
46:QJ:67:ASP:O	46:QJ:92:PHE:HA	2.05	0.56
45:QK:244:PHE:HB2	45:QK:356:ASN:HD21	1.71	0.56
46:QL:207:LEU:HB3	46:QL:225:LEU:HD12	1.87	0.56
46:RD:67:ASP:O	46:RD:92:PHE:HA	2.06	0.56
46:RJ:68:LEU:HD13	46:RJ:143:THR:OG1	2.05	0.56
45:RM:292:THR:HG21	45:RM:331:SER:HB3	1.87	0.56
46:SB:135:ILE:HG13	46:SB:152:ILE:HD11	1.86	0.56
46:SH:97:ALA:O	46:SH:103:LYS:NZ	2.33	0.56
45:SK:63:PRO:HG2	45:SK:87:PHE:HA	1.87	0.56
46:TB:67:ASP:O	46:TB:92:PHE:HA	2.05	0.56
46:TF:22:GLU:HG2	46:TF:81:PHE:HD2	1.70	0.56
45:TG:229:ARG:NH1	45:TG:366:GLY:HA2	2.20	0.56
46:TH:27:GLU:OE2	46:TH:241:ARG:NH2	2.29	0.56
46:TH:186:THR:HA	46:TH:415:MET:HE1	1.86	0.56
45:TI:33:ASP:HA	45:TI:85:GLN:HE21	1.71	0.56
46:TJ:222:TYR:O	46:TJ:226:ASN:ND2	2.28	0.56
46:TJ:309:ARG:NH2	46:TJ:426:GLN:O	2.31	0.56
46:TJ:321:MET:HB2	45:TK:221:ARG:NH2	2.19	0.56
45:TK:390:ARG:HG3	45:TK:391:LEU:HD12	1.88	0.56
45:TM:75:ILE:HD12	45:TM:92:LEU:HB3	1.87	0.56
45:UA:242:LEU:HD11	45:UA:252:ILE:HG13	1.87	0.56
46:UB:321:MET:HG3	45:UC:221:ARG:NH2	2.16	0.56
45:UG:215:ARG:NH2	45:UG:300:ASN:OD1	2.38	0.56
45:UI:88:HIS:CE1	45:VG:280:LYS:HE3	2.40	0.56
46:UJ:132:GLY:HA3	46:UJ:163:ILE:O	2.05	0.56
45:UK:254:GLU:HG2	46:UL:98:GLY:HA2	1.87	0.56
46:UN:384:GLN:O	46:UN:388:MET:HG2	2.05	0.56
45:VA:9:VAL:HG12	45:VA:146:GLY:HA2	1.87	0.56
45:VA:67:PHE:HB2	45:VA:92:LEU:HD13	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:326:LYS:HB2	46:VD:212:PHE:HZ	1.69	0.56
46:VB:73:MET:HA	46:VB:76:VAL:HG12	1.88	0.56
46:VB:158:GLU:HG3	46:VB:159:TYR:CD1	2.40	0.56
46:VB:313:ALA:HB1	46:VB:367:PHE:HE1	1.69	0.56
46:VD:20:PHE:O	46:VD:24:ILE:HG12	2.05	0.56
45:VE:111:GLY:O	45:VE:115:VAL:HG13	2.05	0.56
46:VH:86:ARG:CZ	46:WH:281:TYR:HB3	2.35	0.56
45:VK:338:LYS:HD3	45:VK:340:THR:HG22	1.87	0.56
45:VM:244:PHE:HB2	45:VM:356:ASN:HD21	1.70	0.56
46:WD:257:LEU:HD21	46:WD:314:SER:HB2	1.88	0.56
46:WF:257:LEU:HD21	46:WF:314:SER:HB2	1.85	0.56
46:WH:5:VAL:HG12	46:WH:62:ARG:HD3	1.87	0.56
45:WK:329:ASN:HA	45:WK:332:ILE:HG12	1.88	0.56
45:WM:391:LEU:HD22	45:WM:394:LYS:HZ1	1.69	0.56
46:WN:238:CYS:SG	46:WN:239:CYS:N	2.78	0.56
17:1F:20:TYR:CD2	46:HL:40:SER:HB3	2.40	0.56
1:2A:52:THR:HG21	34:5R:71:LYS:HB3	1.87	0.56
29:2G:37:LYS:NZ	46:JJ:77:ARG:HD2	2.20	0.56
30:3H:205:GLN:NE2	45:AG:82:THR:HB	2.19	0.56
36:5C:137:ARG:NH2	36:5C:173:GLN:O	2.31	0.56
37:5E:176:ASP:OD1	37:5E:177:LEU:N	2.38	0.56
37:5H:9:TYR:HB2	37:5H:10:PRO:HD3	1.87	0.56
34:5R:128:HIS:HE1	34:5R:143:VAL:HG23	1.70	0.56
44:8R:77:UNK:O	44:8R:82:UNK:CB	2.54	0.56
45:AE:102:ASN:ND2	45:AE:407:TRP:O	2.36	0.56
45:AK:288:VAL:CG1	45:AK:327:ASP:HB3	2.35	0.56
46:BJ:178:THR:HG22	46:BJ:180:VAL:H	1.70	0.56
45:BM:174:SER:OG	45:BM:207:GLU:OE1	2.23	0.56
45:CG:121:ARG:HH12	45:CG:124:LYS:HG3	1.70	0.56
46:CH:86:ARG:HD2	46:DH:282:ARG:HH12	1.69	0.56
46:CH:257:LEU:HD21	46:CH:314:SER:HB2	1.87	0.56
46:CL:83:GLN:O	46:DL:281:TYR:OH	2.21	0.56
46:DF:86:ARG:NH2	46:EF:281:TYR:O	2.38	0.56
46:DH:165:GLU:HG2	46:DH:198:GLU:HG2	1.87	0.56
45:DI:269:LEU:HD13	45:DI:301:MET:SD	2.46	0.56
46:DL:49:VAL:HG23	46:DL:50:TYR:HD2	1.71	0.56
46:DL:87:PRO:HA	46:DL:90:PHE:CD2	2.40	0.56
46:EJ:334:GLN:HA	46:EJ:341:PHE:HE1	1.70	0.56
46:EL:135:ILE:HG13	46:EL:152:ILE:HD11	1.87	0.56
46:FB:86:ARG:CZ	46:GB:281:TYR:HB3	2.36	0.56
45:GG:175:PRO:HG3	45:GG:390:ARG:NH2	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GK:129:CYS:SG	45:GK:130:THR:N	2.79	0.56
46:GN:67:ASP:OD2	46:GN:72:THR:OG1	2.20	0.56
46:GN:389:PHE:HZ	46:GN:405:GLU:HB2	1.71	0.56
45:HA:97:GLU:HG2	45:HA:105:ARG:HH22	1.70	0.56
45:HE:174:SER:HB2	45:HE:177:VAL:O	2.05	0.56
46:HH:304:ASP:OD1	46:HH:306:ARG:NH2	2.38	0.56
45:HI:258:ASN:HD22	46:HL:179:VAL:HG22	1.70	0.56
45:IM:287:SER:HB3	45:IM:290:GLU:HG2	1.88	0.56
45:JI:178:SER:HB3	46:JJ:347:ASN:ND2	2.20	0.56
45:JM:181:VAL:HG22	46:JN:256:ASN:OD1	2.04	0.56
46:KD:54:ALA:HB3	46:KD:58:ARG:HG2	1.86	0.56
45:KG:394:LYS:NZ	46:KH:346:PRO:HG2	2.20	0.56
46:LB:60:VAL:HG11	46:LB:86:ARG:HH11	1.69	0.56
46:LF:91:VAL:HG21	46:LF:116:VAL:HB	1.88	0.56
45:LI:69:ASP:OD1	45:LI:70:LEU:N	2.39	0.56
45:LI:407:TRP:CZ3	46:LJ:255:VAL:HA	2.40	0.56
46:LJ:39:ASP:OD1	46:LJ:40:SER:N	2.39	0.56
46:MB:276:ARG:HD2	46:MB:279:GLN:HE22	1.70	0.56
45:MK:260:VAL:HB	46:MN:397:TRP:CZ2	2.41	0.56
46:MN:255:VAL:HG13	46:MN:256:ASN:HD22	1.71	0.56
45:NA:89:PRO:HD2	45:OA:280:LYS:HZ3	1.70	0.56
46:NB:2:ARG:HB3	46:NB:131:GLN:HG3	1.86	0.56
46:NH:309:ARG:NH2	46:NH:341:PHE:O	2.38	0.56
45:OA:265:ILE:HG22	45:OA:380:ASN:HD21	1.70	0.56
45:OC:250:VAL:HG13	45:OC:254:GLU:HB2	1.88	0.56
46:OD:148:GLY:O	46:OD:152:ILE:HG12	2.05	0.56
46:OD:211:CYS:HA	46:OD:215:LEU:HB2	1.87	0.56
45:OG:80:THR:O	45:OG:84:ARG:NH2	2.38	0.56
46:OL:12:CYS:O	46:OL:16:ILE:HG12	2.05	0.56
46:ON:372:THR:HA	46:ON:422:TYR:CE2	2.41	0.56
45:PC:210:TYR:HE1	45:PC:227:LEU:HD21	1.71	0.56
46:QF:178:THR:HB	46:QF:181:GLU:HG3	1.87	0.56
46:QH:206:ALA:O	46:QH:210:ILE:HG12	2.05	0.56
46:QH:290:THR:HA	46:QH:293:MET:HG3	1.87	0.56
45:QK:328:VAL:HG11	45:QK:353:VAL:HG21	1.88	0.56
45:RC:185:TYR:O	45:RC:189:LEU:HD13	2.06	0.56
46:RD:324:LYS:HZ1	45:RE:214:ARG:HD2	1.70	0.56
46:RH:5:VAL:HG11	46:RH:123:GLU:HG3	1.87	0.56
46:SB:320:ARG:HG2	46:SB:355:ASP:HB3	1.87	0.56
45:SC:76:ASP:OD1	45:SC:79:ARG:NH1	2.38	0.56
46:SD:286:VAL:HG23	46:SD:287:PRO:HD3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TB:135:ILE:HG13	46:TB:152:ILE:HD11	1.87	0.56
46:TH:229:VAL:HG12	46:TH:233:MET:HE2	1.87	0.56
46:TL:322:SER:O	45:TM:221:ARG:NH2	2.39	0.56
46:TL:390:ARG:CZ	46:TL:390:ARG:HA	2.35	0.56
46:UN:45:GLU:HG3	46:UN:46:ARG:HG2	1.87	0.56
45:VA:260:VAL:HG23	45:VA:265:ILE:O	2.06	0.56
46:VB:119:VAL:O	46:VB:122:LYS:HG2	2.06	0.56
46:VL:86:ARG:HD3	46:VL:87:PRO:HD2	1.87	0.56
45:WA:260:VAL:HB	46:WD:397:TRP:CZ2	2.40	0.56
45:WG:173:PRO:O	45:WG:390:ARG:NH2	2.38	0.56
45:WM:135:PHE:HB2	45:WM:166:LYS:HG2	1.87	0.56
2:0B:24:PRO:HD3	46:JH:276:ARG:HH22	1.70	0.56
7:0G:18:LEU:HD11	45:IK:76:ASP:HB3	1.88	0.56
15:0X:3:ARG:NH2	46:MD:11:GLN:OE1	2.39	0.56
1:2A:71:TYR:OH	46:AJ:320:ARG:HB2	2.05	0.56
23:2O:368:GLU:HG3	45:VC:370:LYS:NZ	2.19	0.56
25:3R:64:ASN:HD21	46:ML:40:SER:HB3	1.69	0.56
34:4R:414:ASN:OD1	34:4R:415:LYS:N	2.38	0.56
36:5A:135:ASN:O	36:5A:138:ARG:HB2	2.06	0.56
40:6G:284:LYS:O	40:6G:288:LYS:NZ	2.38	0.56
45:AA:175:PRO:HG2	45:AA:304:LYS:HD3	1.85	0.56
45:AE:184:PRO:O	45:AE:188:ILE:HG12	2.06	0.56
45:AE:292:THR:HG21	45:AE:331:SER:HB3	1.87	0.56
45:AE:322:ASP:OD1	45:AE:373:ARG:NH1	2.38	0.56
46:AN:318:ARG:HE	46:AN:358:PRO:HG3	1.71	0.56
45:BA:209:ILE:HA	45:BA:212:ILE:HD12	1.87	0.56
45:BC:175:PRO:HA	45:BC:390:ARG:NH1	2.21	0.56
46:BF:19:LYS:HD2	46:BF:22:GLU:OE1	2.05	0.56
46:BJ:91:VAL:HG21	46:BJ:116:VAL:HB	1.88	0.56
46:BJ:148:GLY:O	46:BJ:152:ILE:HG12	2.05	0.56
45:BM:221:ARG:HD2	46:BN:322:SER:HB3	1.87	0.56
46:CD:267:MET:HG3	46:CD:299:MET:SD	2.46	0.56
46:CF:41:ASP:OD2	46:CF:42:LEU:N	2.38	0.56
45:CG:54:SER:HB3	45:CG:64:ARG:HH21	1.71	0.56
46:CL:282:ARG:NH2	46:CL:292:GLN:OE1	2.39	0.56
45:DG:68:LEU:HD23	45:DG:93:ILE:HB	1.87	0.56
45:DG:255:PHE:HA	45:DG:259:LEU:HD23	1.86	0.56
46:EB:116:VAL:HA	46:EB:119:VAL:HG12	1.87	0.56
46:EH:394:PHE:HA	46:EH:397:TRP:CZ3	2.41	0.56
45:EI:76:ASP:OD1	45:EI:79:ARG:NH2	2.36	0.56
45:EM:141:VAL:HG11	45:EM:172:TYR:HD1	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FE:90:GLU:O	45:FE:121:ARG:NH2	2.39	0.56
46:FN:221:THR:HG23	46:FN:224:ASP:H	1.70	0.56
46:GD:48:ASN:O	46:GD:62:ARG:NH1	2.37	0.56
45:GE:335:ILE:O	45:GE:338:LYS:HB2	2.05	0.56
46:GL:105:HIS:CE1	46:GL:150:LEU:HD12	2.41	0.56
45:HA:260:VAL:HB	46:HD:397:TRP:CZ2	2.41	0.56
46:HD:190:HIS:ND1	46:HD:411:ALA:HA	2.21	0.56
46:HD:282:ARG:NH1	46:HD:288:GLU:OE2	2.39	0.56
46:HF:293:MET:SD	46:HF:365:VAL:HG11	2.46	0.56
46:HN:113:ILE:HD13	46:HN:150:LEU:HD22	1.87	0.56
46:ID:380:ARG:NH1	46:ID:384:GLN:OE1	2.39	0.56
45:IG:96:LYS:HE3	45:IG:96:LYS:HA	1.87	0.56
46:IL:67:ASP:O	46:IL:92:PHE:HA	2.05	0.56
46:IL:226:ASN:HD21	49:IL:501:GDP:HN1	1.52	0.56
45:JA:129:CYS:SG	45:JA:130:THR:N	2.79	0.56
45:JC:335:ILE:HA	45:JC:338:LYS:NZ	2.20	0.56
45:JK:279:GLU:OE2	45:JK:280:LYS:HG3	2.06	0.56
46:JL:31:ASP:OD1	46:JL:35:THR:N	2.33	0.56
46:KB:407:GLU:HA	46:KB:410:GLU:OE2	2.06	0.56
45:KE:254:GLU:OE1	46:KH:98:GLY:HA2	2.06	0.56
46:KF:326:VAL:O	46:KF:330:MET:HG2	2.06	0.56
45:KG:210:TYR:HE2	45:KG:227:LEU:HD11	1.69	0.56
46:KN:375:GLN:O	46:KN:379:LYS:HG3	2.05	0.56
45:LG:251:ASP:OD1	45:LG:252:ILE:N	2.38	0.56
45:LM:394:LYS:HE2	46:LN:346:PRO:HG3	1.87	0.56
45:ME:188:ILE:HD12	45:ME:425:LEU:HD11	1.87	0.56
46:MJ:322:SER:OG	46:MJ:325:GLU:OE1	2.24	0.56
46:NH:361:LEU:HD23	46:NH:364:ALA:HB2	1.88	0.56
46:OB:131:GLN:HA	46:OB:162:ARG:HH21	1.71	0.56
46:OB:254:ALA:O	46:OB:258:ILE:HG22	2.05	0.56
45:OC:224:TYR:HB2	46:OD:245:GLN:HE22	1.71	0.56
45:OG:90:GLU:H	45:PG:280:LYS:HZ1	1.54	0.56
45:OM:275:ILE:O	45:OM:275:ILE:HG13	2.06	0.56
46:PH:49:VAL:HG23	46:PH:50:TYR:HD2	1.70	0.56
46:PJ:249:ASP:H	46:PJ:252:LYS:HG3	1.69	0.56
46:QD:309:ARG:NH2	46:QD:426:GLN:O	2.31	0.56
46:QF:12:CYS:O	46:QF:16:ILE:HD12	2.05	0.56
46:RB:10:GLY:O	46:RB:14:ASN:ND2	2.38	0.56
46:RJ:316:LEU:HD13	46:RJ:352:SER:HB2	1.86	0.56
45:RK:68:LEU:HD13	45:RK:93:ILE:HB	1.87	0.56
45:SG:192:HIS:CD2	45:SG:421:ALA:HA	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SG:247:ALA:HB3	45:SG:355:ILE:HD11	1.87	0.56
46:SL:97:ALA:HB3	46:SL:143:THR:HB	1.88	0.56
45:SM:270:SER:OG	45:SM:302:MET:SD	2.60	0.56
45:TA:323:VAL:HB	45:TA:373:ARG:NH1	2.21	0.56
45:TC:77:GLU:HA	45:TC:80:THR:HG22	1.86	0.56
45:TK:201:ALA:HB3	45:TK:267:PHE:HD1	1.69	0.56
46:UB:334:GLN:NE2	46:UB:348:ASN:OD1	2.39	0.56
45:UE:101:ASN:HA	45:UE:144:GLY:H	1.70	0.56
46:UN:66:MET:HE3	46:UN:116:VAL:HG11	1.87	0.56
45:VA:407:TRP:HE1	46:VB:258:ILE:HG23	1.71	0.56
46:VB:134:GLN:N	46:VB:134:GLN:OE1	2.39	0.56
46:VD:337:ASN:HB3	46:VD:340:TYR:HB2	1.87	0.56
45:WG:335:ILE:HA	45:WG:338:LYS:HE2	1.87	0.56
46:WH:344:TRP:HB3	46:WH:430:ALA:HB2	1.87	0.56
45:WK:101:ASN:HA	45:WK:144:GLY:H	1.71	0.56
45:WM:284:GLU:HG3	45:WM:286:LEU:HD22	1.87	0.56
45:CE:8:HIS:HB2	45:CE:67:PHE:HD1	1.69	0.56
45:DC:52:PHE:HZ	45:DC:239:THR:HG21	1.71	0.56
18:1I:183:ILE:HD11	46:KH:77:ARG:HG2	1.86	0.56
21:1L:781:MET:HA	46:BD:320:ARG:NH1	2.21	0.56
23:1O:271:ALA:HB3	45:UA:278:ALA:C	2.26	0.56
24:1P:298:ASP:OD2	46:TD:320:ARG:NH2	2.38	0.56
11:1S:273:ILE:HG21	46:WF:122:LYS:HD3	1.87	0.56
1:3A:35:TYR:O	46:MN:320:ARG:NH1	2.38	0.56
25:3R:289:ASN:ND2	46:DL:219:THR:OG1	2.38	0.56
30:4H:183:PHE:HB3	46:AL:227:HIS:ND1	2.21	0.56
36:5D:45:TYR:CZ	36:5D:56:ILE:HG13	2.41	0.56
37:5H:44:ARG:NH2	45:NK:56:THR:O	2.38	0.56
10:6Q:5:THR:O	10:6Q:7:GLN:NE2	2.39	0.56
45:AA:33:ASP:HA	45:AA:85:GLN:HE21	1.71	0.56
45:AE:111:GLY:O	45:AE:115:VAL:HG13	2.05	0.56
45:AK:9:VAL:HG12	45:AK:68:LEU:HB2	1.87	0.56
45:BA:223:THR:HG23	45:BA:225:THR:H	1.71	0.56
45:BI:60:LYS:NZ	45:CI:282:TYR:O	2.38	0.56
45:BM:322:ASP:OD1	45:BM:373:ARG:NH1	2.38	0.56
45:CA:208:ALA:O	45:CA:212:ILE:HG12	2.06	0.56
45:CA:254:GLU:N	45:CA:254:GLU:OE2	2.36	0.56
45:CA:284:GLU:HG2	45:CA:286:LEU:HD22	1.88	0.56
45:CA:308:ARG:HH22	45:CA:342:GLN:HE22	1.54	0.56
45:CC:101:ASN:HA	45:CC:144:GLY:H	1.70	0.56
46:CD:328:GLU:OE2	45:CE:214:ARG:NH2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DA:242:LEU:HD11	45:DA:252:ILE:HG13	1.86	0.56
45:DA:340:THR:HG23	45:DA:341:ILE:HG13	1.88	0.56
46:DD:208:TYR:HB3	45:DC:326:LYS:HZ1	1.71	0.56
45:DK:141:VAL:HG11	45:DK:172:TYR:HD1	1.69	0.56
46:DL:67:ASP:OD1	46:DL:68:LEU:N	2.39	0.56
46:DL:198:GLU:OE2	46:DL:254:ALA:HA	2.06	0.56
46:ED:3:GLU:HB2	46:ED:62:ARG:HH12	1.71	0.56
46:FF:226:ASN:HD21	49:FF:501:GDP:HN1	1.53	0.56
46:FL:256:ASN:ND2	46:FL:350:LYS:HE3	2.20	0.56
46:FN:31:ASP:OD2	46:FN:37:HIS:ND1	2.38	0.56
45:GA:292:THR:HG21	45:GA:331:SER:HB3	1.86	0.56
46:GB:198:GLU:HG2	46:GB:266:PHE:HE2	1.71	0.56
46:HB:87:PRO:HA	46:HB:90:PHE:HD2	1.71	0.56
46:HB:235:GLY:HA2	46:HB:318:ARG:NH1	2.21	0.56
45:HC:71:GLU:HA	46:HD:2:ARG:HH22	1.70	0.56
45:HE:171:ILE:O	45:HE:171:ILE:HG13	2.05	0.56
46:HF:3:GLU:CD	46:HF:3:GLU:H	2.09	0.56
45:IC:254:GLU:HG2	46:IF:98:GLY:HA2	1.87	0.56
46:ID:99:ASN:HA	46:ID:142:GLY:HA3	1.88	0.56
46:IH:25:SER:OG	46:IH:30:ILE:O	2.23	0.56
45:IK:88:HIS:CE1	45:IK:90:GLU:HG3	2.41	0.56
46:IN:28:HIS:C	46:IN:43:GLN:HE21	2.09	0.56
46:IN:156:ARG:NH2	46:IN:197:ASP:OD2	2.34	0.56
46:JD:73:MET:HA	46:JD:76:VAL:HG12	1.88	0.56
46:JH:410:GLU:OE1	46:NH:340:TYR:OH	2.11	0.56
45:JM:242:LEU:HD11	45:JM:252:ILE:HG23	1.86	0.56
45:KC:210:TYR:CE1	45:KC:227:LEU:HD21	2.41	0.56
46:KH:11:GLN:NE2	49:KH:501:GDP:O1A	2.39	0.56
46:KH:239:CYS:SG	46:KH:247:ASN:HA	2.46	0.56
46:KL:107:THR:OG1	46:KL:108:GLU:OE1	2.22	0.56
46:KN:51:TYR:HB3	46:KN:59:TYR:HB3	1.86	0.56
45:LC:103:PHE:HB2	45:LC:186:ASN:HB3	1.86	0.56
46:LF:316:LEU:HD13	46:LF:352:SER:HB2	1.87	0.56
46:LJ:5:VAL:HG12	46:LJ:62:ARG:HD3	1.88	0.56
46:LN:97:ALA:HB2	46:LN:143:THR:HB	1.87	0.56
46:LN:208:TYR:CE1	46:LN:225:LEU:HD21	2.40	0.56
46:MB:101:TRP:HB2	46:MB:184:ASN:HB3	1.87	0.56
46:MJ:49:VAL:HG21	46:MJ:241:ARG:HG2	1.87	0.56
45:NA:49:PHE:HB2	45:NA:53:PHE:HB2	1.87	0.56
46:ND:232:ALA:HB1	46:ND:268:ILE:HD12	1.86	0.56
45:NG:271:SER:OG	45:NG:301:MET:SD	2.64	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NN:67:ASP:O	46:NN:92:PHE:HA	2.05	0.56
46:OD:174:LYS:HB3	46:OD:205:GLU:OE2	2.06	0.56
46:ON:379:LYS:O	46:ON:383:GLU:HG2	2.05	0.56
45:PA:174:SER:HB2	45:PA:177:VAL:O	2.05	0.56
45:PE:5:ILE:HD11	45:PE:135:PHE:CE2	2.41	0.56
45:PI:205:ASP:OD2	45:PI:303:ALA:HA	2.05	0.56
46:PN:41:ASP:OD1	46:PN:42:LEU:N	2.39	0.56
45:QI:352:LYS:HE2	46:QJ:179:VAL:HG13	1.88	0.56
45:RA:223:THR:H	45:RA:226:ASN:ND2	2.04	0.56
45:RA:254:GLU:OE1	45:RA:257:THR:OG1	2.16	0.56
46:RD:334:GLN:HA	46:RD:341:PHE:HE1	1.69	0.56
45:RK:205:ASP:OD2	45:RK:303:ALA:HA	2.06	0.56
45:RK:288:VAL:HA	45:RK:291:ILE:HG12	1.88	0.56
45:SG:220:GLU:OE2	45:SG:221:ARG:NE	2.38	0.56
45:SK:75:ILE:HG12	45:SK:79:ARG:NH1	2.20	0.56
45:TI:56:THR:OG1	45:UI:282:TYR:O	2.23	0.56
45:TI:326:LYS:HG2	46:TJ:220:PRO:HD2	1.87	0.56
46:TJ:226:ASN:HD21	49:TJ:501:GDP:HN1	1.51	0.56
46:UB:248:SER:HA	46:UB:252:LYS:HD2	1.88	0.56
45:UE:111:GLY:O	45:UE:115:VAL:HG13	2.05	0.56
45:UE:346:TRP:CD1	46:UF:391:ARG:HG3	2.41	0.56
46:UH:86:ARG:HD3	46:UH:87:PRO:HD2	1.88	0.56
46:UN:139:LEU:HD22	46:UN:170:VAL:HG12	1.88	0.56
45:VA:286:LEU:O	45:VA:373:ARG:NH2	2.39	0.56
45:VA:346:TRP:CD1	46:VD:391:ARG:HG3	2.40	0.56
46:VD:64:ILE:HA	46:VD:89:ASN:HB3	1.87	0.56
46:VD:332:ASN:O	46:VD:336:LYS:HG2	2.05	0.56
46:VH:226:ASN:HD21	49:VH:501:GDP:HN1	1.53	0.56
45:WA:80:THR:O	45:WA:84:ARG:NH2	2.34	0.56
46:WB:221:THR:HG23	46:WB:224:ASP:H	1.71	0.56
45:WC:265:ILE:HG22	45:WC:380:ASN:HD21	1.71	0.56
46:WH:156:ARG:NH1	46:WH:195:ASN:O	2.39	0.56
45:CE:140:SER:OG	47:CE:501:GTP:O2B	2.24	0.56
7:OG:91:VAL:HG13	46:JN:279:GLN:HB3	1.86	0.56
20:1K:158:THR:HG22	45:GC:370:LYS:HZ2	1.71	0.56
37:5E:95:ASP:O	37:5E:98:LYS:HG3	2.06	0.56
37:5G:67:ARG:HD2	37:5G:68:PRO:O	2.05	0.56
10:5Q:48:GLU:HG3	10:5Q:161:ARG:HG2	1.88	0.56
34:6R:247:LYS:NZ	34:6R:283:ASP:OD2	2.30	0.56
34:6R:450:ASP:OD1	34:6R:452:THR:OG1	2.24	0.56
45:AG:18:ASN:OD1	45:AG:19:ALA:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AN:6:HIS:NE2	46:AN:8:GLN:OE1	2.39	0.56
46:AN:156:ARG:NH2	46:AN:197:ASP:OD2	2.38	0.56
46:BF:73:MET:HA	46:BF:76:VAL:HG22	1.86	0.56
46:BF:139:LEU:HD13	46:BF:168:SER:HB3	1.86	0.56
46:BF:178:THR:HB	46:BF:181:GLU:HG3	1.88	0.56
45:BG:209:ILE:HA	45:BG:212:ILE:HG22	1.87	0.56
45:BI:76:ASP:OD2	46:BJ:46:ARG:NH2	2.39	0.56
46:CF:282:ARG:NH2	46:CF:292:GLN:OE1	2.29	0.56
45:DA:135:PHE:HB2	45:DA:166:LYS:HG2	1.87	0.56
46:DH:375:GLN:HG3	46:DH:419:VAL:HG13	1.87	0.56
45:DI:7:ILE:HB	45:DI:137:VAL:HG12	1.87	0.56
45:DI:326:LYS:NZ	46:DJ:220:PRO:O	2.31	0.56
46:DL:158:GLU:HG3	46:DL:159:TYR:CD1	2.41	0.56
45:EE:306:ASP:OD1	45:EE:308:ARG:NE	2.34	0.56
46:EF:183:TYR:CE2	46:EF:388:MET:HB3	2.39	0.56
46:EN:386:THR:OG1	46:EN:390:ARG:NH2	2.38	0.56
46:FB:67:ASP:O	46:FB:92:PHE:HA	2.05	0.56
45:FI:88:HIS:HB3	45:FI:91:GLN:HG2	1.88	0.56
45:GE:398:MET:HG2	46:GF:345:ILE:HG22	1.86	0.56
46:GF:7:ILE:HG23	46:GF:135:ILE:HD13	1.87	0.56
46:GN:385:PHE:HE2	46:GN:412:GLU:HB3	1.71	0.56
45:HA:346:TRP:CD1	46:HD:391:ARG:HG3	2.41	0.56
45:HE:399:TYR:O	45:HE:402:ARG:NH1	2.39	0.56
46:HN:318:ARG:HB3	46:HN:357:PRO:HA	1.88	0.56
46:IB:6:HIS:O	46:IB:63:ALA:HA	2.05	0.56
46:IB:138:SER:HA	46:IB:169:VAL:HB	1.88	0.56
45:IC:54:SER:HB3	45:IC:64:ARG:HH21	1.70	0.56
46:ID:304:ASP:HB3	46:ID:307:HIS:HB2	1.88	0.56
45:IE:175:PRO:HB2	45:IE:176:GLN:OE1	2.06	0.56
45:JC:141:VAL:HG11	45:JC:172:TYR:CD1	2.40	0.56
45:JK:308:ARG:NH1	45:JK:340:THR:HG22	2.21	0.56
45:KE:88:HIS:CD2	45:KE:90:GLU:HG2	2.40	0.56
45:KI:328:VAL:O	45:KI:332:ILE:HG12	2.05	0.56
46:KN:213:ARG:NH1	46:KN:297:LYS:HE2	2.20	0.56
46:LL:33:THR:O	46:LL:58:ARG:NH2	2.39	0.56
46:LN:67:ASP:OD1	46:LN:68:LEU:N	2.38	0.56
46:MB:119:VAL:HA	46:MB:122:LYS:HE2	1.87	0.56
46:NB:350:LYS:HE3	46:NB:350:LYS:HA	1.87	0.56
45:OA:210:TYR:CZ	46:OB:324:LYS:HG2	2.41	0.56
45:OE:89:PRO:HG3	45:PE:280:LYS:HG3	1.88	0.56
46:OH:214:THR:O	46:OH:275:SER:OG	2.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ON:6:HIS:CD2	46:ON:134:GLN:HE21	2.17	0.56
45:PA:193:SER:O	45:PA:197:HIS:ND1	2.37	0.56
46:PF:222:TYR:O	46:PF:226:ASN:ND2	2.25	0.56
45:PK:98:ASP:O	45:PK:105:ARG:NH1	2.38	0.56
45:QA:140:SER:OG	47:QA:501:GTP:O2B	2.24	0.56
46:QB:86:ARG:HH22	46:RB:280:GLN:NE2	2.04	0.56
46:QB:390:ARG:HD2	46:QB:391:ARG:HG2	1.87	0.56
46:QD:190:HIS:CE1	46:QD:414:ASN:HD22	2.23	0.56
45:QE:89:PRO:HD2	45:RE:280:LYS:HE3	1.87	0.56
46:QH:309:ARG:NH2	46:QH:426:GLN:O	2.32	0.56
46:QL:309:ARG:NH2	46:QL:426:GLN:O	2.35	0.56
45:RC:124:LYS:NZ	45:SC:294:SER:OG	2.28	0.56
45:RG:206:ASN:OD1	47:RG:501:GTP:N2	2.39	0.56
45:RM:66:VAL:HG11	45:RM:122:ILE:HD11	1.87	0.56
45:RM:117:LEU:O	45:RM:121:ARG:HG2	2.06	0.56
45:RM:284:GLU:HG3	45:RM:286:LEU:HD22	1.86	0.56
45:SA:60:LYS:NZ	45:SA:85:GLN:O	2.28	0.56
46:SD:258:ILE:HG13	45:SE:407:TRP:HZ2	1.70	0.56
45:SE:389:SER:O	45:SE:393:HIS:ND1	2.33	0.56
46:SN:207:LEU:HB3	46:SN:225:LEU:HD22	1.87	0.56
45:TC:75:ILE:HD12	45:TC:92:LEU:HB3	1.88	0.56
46:TD:55:THR:HG23	46:UD:283:ALA:HA	1.88	0.56
46:TL:32:PRO:O	46:TL:83:GLN:NE2	2.38	0.56
46:TL:423:GLN:NE2	46:TL:427:ASP:OD2	2.35	0.56
45:TM:119:LEU:O	45:TM:123:ARG:HG2	2.06	0.56
46:UB:316:LEU:O	46:UB:365:VAL:HA	2.06	0.56
46:VD:282:ARG:NH2	46:VD:292:GLN:OE1	2.38	0.56
45:VI:88:HIS:HA	45:WI:280:LYS:HZ3	1.70	0.56
45:VK:21:TRP:CZ2	45:VK:65:ALA:HB2	2.41	0.56
45:WC:280:LYS:HE3	45:WC:283:HIS:HB2	1.87	0.56
46:WF:8:GLN:OE1	46:WF:14:ASN:ND2	2.38	0.56
46:WF:327:ASP:OD1	46:WF:328:GLU:N	2.38	0.56
46:WH:335:ASN:OD1	46:WH:336:LYS:N	2.39	0.56
46:WJ:266:PHE:CE1	46:WJ:370:ASN:HB2	2.40	0.56
46:WL:418:LEU:O	46:WL:422:TYR:HB2	2.05	0.56
45:CE:296:PHE:HE1	45:CE:377:MET:HG3	1.71	0.56
4:0D:225:ARG:CZ	34:7R:598:TRP:HB3	2.35	0.56
23:1O:266:GLU:HB3	45:UA:282:TYR:CE1	2.40	0.56
27:2C:220:LYS:NZ	45:KI:367:ASP:OD1	2.38	0.56
37:5F:54:LYS:HG2	46:OF:227:HIS:CG	2.41	0.56
37:5H:87:LEU:HD22	37:5H:92:GLN:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:5Q:22:LEU:HB2	10:5Q:25:TRP:HB2	1.88	0.56
34:6R:430:LEU:HD22	34:6R:442:PHE:CE1	2.41	0.56
45:AC:115:VAL:HG11	45:AC:152:LEU:HD23	1.88	0.56
45:AG:101:ASN:HA	45:AG:144:GLY:H	1.71	0.56
46:AH:207:LEU:HD13	46:AH:225:LEU:HB3	1.86	0.56
46:BD:58:ARG:NH2	46:CB:281:TYR:HD2	2.04	0.56
45:BE:145:THR:OG1	47:BE:501:GTP:O1B	2.24	0.56
46:BJ:107:THR:HG23	46:BJ:401:GLU:OE1	2.06	0.56
45:CA:133:GLN:HB3	45:CA:252:ILE:HG21	1.86	0.56
46:CD:310:TYR:HE2	46:CD:367:PHE:HZ	1.53	0.56
46:CH:173:PRO:HD2	46:CH:380:ARG:HH11	1.70	0.56
45:CI:54:SER:HB3	45:CI:64:ARG:HH21	1.69	0.56
46:CL:229:VAL:O	46:CL:233:MET:HG2	2.06	0.56
46:DB:63:ALA:O	46:DB:89:ASN:ND2	2.38	0.56
46:DJ:92:PHE:HD1	46:DJ:94:GLN:HE22	1.53	0.56
45:EA:242:LEU:HD11	45:EA:252:ILE:HG13	1.87	0.56
45:EM:91:GLN:HG2	45:EM:121:ARG:HE	1.70	0.56
45:FG:141:VAL:HG11	45:FG:172:TYR:HD1	1.71	0.56
45:FI:284:GLU:HG2	45:FI:286:LEU:HD12	1.87	0.56
46:FJ:294:PHE:CD1	46:FJ:333:VAL:HG11	2.41	0.56
45:GC:238:LEU:HD21	45:GC:255:PHE:HE2	1.71	0.56
45:GC:298:PRO:HA	45:GC:301:MET:HE1	1.87	0.56
46:GJ:67:ASP:OD1	46:GJ:68:LEU:N	2.39	0.56
45:GK:2:ARG:HB2	45:GK:133:GLN:HE22	1.70	0.56
45:HC:328:VAL:HG11	45:HC:353:VAL:HG21	1.88	0.56
45:HI:217:LEU:HB3	45:HI:219:ILE:HG13	1.88	0.56
45:HI:226:ASN:ND2	45:HI:367:ASP:OD2	2.39	0.56
46:HJ:73:MET:HA	46:HJ:76:VAL:HG12	1.87	0.56
46:IN:99:ASN:HA	46:IN:142:GLY:H	1.71	0.56
45:KE:214:ARG:HH21	45:KE:215:ARG:NH2	2.04	0.56
45:KI:244:PHE:HB2	45:KI:356:ASN:HD21	1.69	0.56
45:KK:239:THR:HG22	45:KK:243:ARG:HE	1.69	0.56
46:LH:190:HIS:NE2	46:LH:410:GLU:OE1	2.39	0.56
45:NA:74:VAL:O	45:NA:78:VAL:HG23	2.05	0.56
45:NE:141:VAL:HG11	45:NE:172:TYR:CD1	2.40	0.56
45:NG:239:THR:OG1	45:NG:243:ARG:NH2	2.35	0.56
46:NH:148:GLY:O	46:NH:152:ILE:HD12	2.06	0.56
45:OE:329:ASN:HD22	46:OH:208:TYR:HE2	1.53	0.56
46:OL:96:GLY:O	46:OL:103:LYS:NZ	2.38	0.56
46:OL:150:LEU:O	46:OL:154:LYS:HG2	2.06	0.56
45:OM:139:ASN:ND2	45:OM:146:GLY:O	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QH:207:LEU:HB3	46:QH:225:LEU:HD22	1.88	0.56
45:QM:208:ALA:O	45:QM:212:ILE:HG12	2.06	0.56
45:RA:284:GLU:HG2	45:RA:286:LEU:HD22	1.87	0.56
46:RD:74:ASP:OD1	46:RD:77:ARG:NH2	2.32	0.56
46:SD:63:ALA:O	46:SD:89:ASN:ND2	2.35	0.56
45:SK:83:TYR:HB3	45:SK:86:LEU:HD12	1.87	0.56
46:SL:346:PRO:HD2	45:SM:398:MET:HE1	1.87	0.56
46:TB:334:GLN:HA	46:TB:341:PHE:CE2	2.39	0.56
45:TE:249:ASN:OD1	46:TF:11:GLN:NE2	2.21	0.56
46:TH:167:PHE:CZ	46:TH:233:MET:HG2	2.41	0.56
46:TJ:83:GLN:O	46:UJ:281:TYR:OH	2.24	0.56
45:TK:408:TYR:HB3	45:TK:413:MET:HG3	1.87	0.56
46:TL:164:MET:HB2	46:TL:197:ASP:H	1.71	0.56
46:UD:6:HIS:O	46:UD:63:ALA:HA	2.04	0.56
46:UD:318:ARG:HH21	46:UD:356:ILE:HG23	1.71	0.56
45:UG:212:ILE:HD11	45:UG:300:ASN:HA	1.88	0.56
46:UH:2:ARG:HH21	45:UI:72:PRO:HD3	1.71	0.56
45:VA:384:ILE:O	45:VA:387:VAL:HG22	2.06	0.56
45:VC:164:LYS:O	45:VC:166:LYS:NZ	2.39	0.56
46:VD:198:GLU:HB2	46:VD:266:PHE:CE2	2.41	0.56
45:VE:265:ILE:HG22	45:VE:380:ASN:HD21	1.71	0.56
45:WC:111:GLY:O	45:WC:115:VAL:HG13	2.06	0.56
4:0D:185:ASN:O	46:FB:320:ARG:NH1	2.37	0.56
8:1H:90:ARG:NH2	45:HK:282:TYR:HE1	2.04	0.56
20:1K:165:GLN:HE22	45:GC:369:ALA:HA	1.71	0.56
11:1S:312:THR:HA	45:AE:402:ARG:HG3	1.87	0.56
14:1V:70:THR:HB	46:MJ:337:ASN:HD21	1.71	0.56
14:2V:72:GLY:HA2	46:MF:340:TYR:CE1	2.39	0.56
10:4Q:102:ARG:HE	45:AI:430:LYS:HZ1	1.52	0.56
36:5B:146:VAL:HG11	45:NG:225:THR:HG21	1.88	0.56
37:5E:78:LEU:HD21	37:5E:97:ARG:HG2	1.87	0.56
34:7R:131:GLU:OE1	34:7R:141:GLN:NE2	2.39	0.56
46:AD:103:LYS:HA	46:AD:107:THR:HG22	1.86	0.56
46:AJ:148:GLY:O	46:AJ:152:ILE:HG12	2.05	0.56
46:AJ:292:GLN:HG2	46:AJ:298:ASN:HD21	1.71	0.56
46:AL:167:PHE:CE2	46:AL:233:MET:HG2	2.41	0.56
46:AL:362:LYS:HG2	46:AL:363:MET:HG2	1.88	0.56
46:BB:248:SER:HA	46:BB:252:LYS:HD2	1.88	0.56
45:CA:76:ASP:OD1	45:CA:79:ARG:NH2	2.39	0.56
45:CG:212:ILE:HD13	45:CG:215:ARG:NH2	2.20	0.56
45:CM:242:LEU:HD11	45:CM:252:ILE:HG13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:211:CYS:HA	46:CN:215:LEU:HD12	1.88	0.56
46:DD:109:GLY:O	46:DD:113:ILE:HG23	2.06	0.56
46:EB:244:GLY:HA3	46:EB:354:CYS:HA	1.87	0.56
46:ED:121:ARG:HH22	46:FD:336:LYS:HE3	1.70	0.56
45:EG:136:LEU:HD13	45:EG:167:LEU:HB2	1.87	0.56
46:EH:8:GLN:HE22	46:EH:14:ASN:HA	1.71	0.56
46:EJ:8:GLN:NE2	46:EJ:17:GLY:HA3	2.20	0.56
45:FG:184:PRO:O	45:FG:188:ILE:HG12	2.05	0.56
45:FI:263:PRO:HD3	46:FL:396:HIS:NE2	2.20	0.56
46:GJ:166:THR:HG21	46:GJ:192:LEU:HD11	1.88	0.56
46:GL:208:TYR:CE1	46:GL:225:LEU:HD11	2.41	0.56
45:HC:69:ASP:OD1	45:HC:70:LEU:N	2.38	0.56
46:HJ:97:ALA:HB3	46:HJ:143:THR:HB	1.87	0.56
45:JC:272:TYR:HD2	45:JC:275:ILE:HD11	1.71	0.56
45:JG:210:TYR:HE1	45:JG:227:LEU:HD21	1.71	0.56
45:JK:250:VAL:HG13	45:JK:254:GLU:HB2	1.87	0.56
45:JM:21:TRP:CZ3	45:JM:63:PRO:HB3	2.41	0.56
45:KA:296:PHE:HE1	45:KA:335:ILE:HG21	1.70	0.56
45:KI:226:ASN:ND2	45:KI:367:ASP:OD2	2.39	0.56
45:KM:224:TYR:HD1	47:KM:501:GTP:C6	2.24	0.56
45:LE:118:CYS:O	45:LE:122:ILE:HG12	2.05	0.56
46:MD:309:ARG:NH2	46:MD:426:GLN:O	2.37	0.56
46:MH:60:VAL:HG21	46:MH:86:ARG:HG2	1.87	0.56
45:MM:209:ILE:HD12	45:MM:227:LEU:HB3	1.87	0.56
45:NC:417:GLU:HA	45:NC:420:GLU:OE2	2.06	0.56
45:NM:32:PRO:HB3	45:NM:83:TYR:CE1	2.41	0.56
45:OA:286:LEU:HD13	45:OA:371:VAL:HG13	1.87	0.56
45:OC:288:VAL:HG13	45:OC:373:ARG:HH11	1.71	0.56
45:OE:209:ILE:HA	45:OE:212:ILE:HG22	1.88	0.56
46:OH:150:LEU:O	46:OH:154:LYS:HG2	2.06	0.56
45:OI:174:SER:HB2	45:OI:177:VAL:HB	1.88	0.56
45:PA:265:ILE:HG22	45:PA:380:ASN:HD21	1.71	0.56
46:PD:87:PRO:HA	46:PD:90:PHE:HD2	1.70	0.56
46:PL:156:ARG:NH1	46:PL:159:TYR:O	2.39	0.56
45:PM:90:GLU:O	45:PM:121:ARG:NH1	2.38	0.56
45:PM:108:TYR:HE2	45:PM:413:MET:HB3	1.70	0.56
45:QG:66:VAL:HG21	45:QG:122:ILE:HD11	1.87	0.56
46:RB:132:GLY:HA3	46:RB:163:ILE:HG22	1.88	0.56
46:RF:8:GLN:HE22	46:RF:17:GLY:HA3	1.70	0.56
45:SA:211:ASP:HB3	45:SA:215:ARG:NH1	2.20	0.56
46:SB:207:LEU:HD22	46:SB:300:MET:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:310:TYR:HD1	46:SF:371:SER:HB2	1.71	0.56
45:SK:68:LEU:HD13	45:SK:93:ILE:HB	1.87	0.56
46:TB:97:ALA:HB3	46:TB:143:THR:HB	1.88	0.56
46:TH:207:LEU:HB3	46:TH:225:LEU:HD22	1.88	0.56
46:TH:341:PHE:HB3	46:TH:348:ASN:HD21	1.71	0.56
45:UG:184:PRO:O	45:UG:188:ILE:HG12	2.06	0.56
46:UJ:215:LEU:HB3	46:UJ:217:LEU:HD23	1.88	0.56
45:UM:88:HIS:HB3	45:UM:91:GLN:HG2	1.87	0.56
45:UM:226:ASN:ND2	45:UM:367:ASP:OD2	2.38	0.56
46:VH:290:THR:HA	46:VH:293:MET:HG3	1.87	0.56
45:VM:221:ARG:NH2	46:VN:321:MET:HB2	2.20	0.56
46:VN:282:ARG:NH2	46:VN:292:GLN:OE1	2.36	0.56
45:WC:133:GLN:HG2	45:WC:252:ILE:HB	1.87	0.56
46:WJ:282:ARG:NH2	46:WJ:288:GLU:OE2	2.38	0.56
46:WN:8:GLN:HE22	46:WN:14:ASN:ND2	2.03	0.56
46:WN:299:MET:HE1	46:WN:305:PRO:HD3	1.88	0.56
45:CE:335:ILE:HA	45:CE:338:LYS:HZ3	1.71	0.56
9:1N:247:GLN:N	45:KG:46:ASP:OD1	2.39	0.56
24:1P:226:HIS:NE2	45:TG:278:ALA:O	2.38	0.56
23:2O:405:GLU:OE1	46:VD:276:ARG:NH2	2.39	0.56
15:4X:65:ASN:HA	15:4X:68:ARG:NH1	2.21	0.56
46:AB:213:ARG:CZ	46:AB:213:ARG:HA	2.36	0.56
45:BC:89:PRO:HD2	45:CC:283:HIS:HD1	1.71	0.56
45:BC:184:PRO:O	45:BC:188:ILE:HG12	2.06	0.56
46:BL:245:GLN:HA	46:BL:245:GLN:NE2	2.21	0.56
46:BN:86:ARG:NH1	46:CL:277:GLY:O	2.39	0.56
46:BN:97:ALA:HB3	46:BN:143:THR:HB	1.86	0.56
45:CC:231:ILE:O	45:CC:235:ILE:HG12	2.06	0.56
45:DE:5:ILE:HD12	45:DE:135:PHE:HE1	1.69	0.56
45:DE:326:LYS:HG3	45:DE:327:ASP:N	2.21	0.56
46:DJ:286:VAL:HG12	46:DJ:329:GLN:NE2	2.20	0.56
45:DK:206:ASN:OD1	47:DK:501:GTP:N2	2.38	0.56
46:EB:325:GLU:N	46:EB:325:GLU:OE2	2.36	0.56
45:EC:230:LEU:HD13	45:EC:233:GLN:NE2	2.21	0.56
45:EC:251:ASP:OD1	45:EC:252:ILE:N	2.39	0.56
46:ED:309:ARG:NH2	46:ED:426:GLN:O	2.39	0.56
46:EL:5:VAL:HG12	46:EL:62:ARG:HD3	1.87	0.56
46:EL:52:ASN:OD1	46:EL:62:ARG:NH2	2.39	0.56
46:FB:178:THR:HB	46:FB:181:GLU:HG3	1.88	0.56
46:FH:289:LEU:HD11	46:FH:363:MET:HG3	1.88	0.56
46:FJ:117:LEU:HA	46:FJ:120:VAL:HG12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FN:313:ALA:HB3	46:FN:349:ILE:HG12	1.88	0.56
46:GB:91:VAL:HG21	46:GB:116:VAL:HB	1.88	0.56
45:GG:362:VAL:HB	45:GG:370:LYS:HB3	1.86	0.56
46:HN:135:ILE:HG13	46:HN:152:ILE:HD11	1.88	0.56
46:ID:6:HIS:O	46:ID:63:ALA:HA	2.06	0.56
46:ID:136:THR:HA	46:ID:167:PHE:HB2	1.87	0.56
46:IJ:22:GLU:OE1	46:IJ:22:GLU:N	2.38	0.56
45:IM:183:GLU:OE2	45:IM:183:GLU:N	2.32	0.56
46:IN:399:THR:HA	46:IN:403:MET:HB2	1.88	0.56
45:JG:206:ASN:OD1	47:JG:501:GTP:N2	2.33	0.56
45:JK:335:ILE:HA	45:JK:338:LYS:NZ	2.21	0.56
46:JN:309:ARG:NH2	46:JN:426:GLN:O	2.36	0.56
46:KL:109:GLY:HA2	46:KL:147:MET:HE2	1.88	0.56
45:KM:180:ALA:HA	46:KN:350:LYS:HD3	1.87	0.56
45:LC:98:ASP:O	45:LC:105:ARG:NH1	2.39	0.56
46:LJ:31:ASP:OD1	46:LJ:35:THR:N	2.35	0.56
46:MJ:293:MET:HE3	46:MJ:367:PHE:HD1	1.71	0.56
45:NC:100:ALA:HA	46:ND:252:LYS:HE2	1.87	0.56
45:NC:105:ARG:NH2	45:NC:411:GLU:OE2	2.38	0.56
45:NE:2:ARG:HD3	45:NE:2:ARG:H	1.71	0.56
45:NG:226:ASN:ND2	45:NG:367:ASP:OD2	2.38	0.56
45:NI:181:VAL:HG12	46:NJ:350:LYS:HZ1	1.70	0.56
46:OB:316:LEU:HD13	46:OB:352:SER:HB2	1.87	0.56
45:OI:136:LEU:HD23	45:OI:167:LEU:HB2	1.88	0.56
45:OM:7:ILE:HB	45:OM:137:VAL:HG12	1.86	0.56
46:PF:268:ILE:HG13	46:PF:300:MET:HG3	1.88	0.56
45:PG:107:HIS:HA	45:PG:152:LEU:HD11	1.87	0.56
45:PK:326:LYS:HE2	46:PN:220:PRO:CD	2.35	0.56
46:QB:293:MET:HE2	46:QB:365:VAL:HG12	1.88	0.56
46:QD:50:TYR:HE2	46:QD:241:ARG:HE	1.52	0.56
45:QK:356:ASN:OD1	45:QK:357:TYR:N	2.38	0.56
45:RC:210:TYR:HE1	45:RC:227:LEU:HD11	1.70	0.56
46:RL:116:VAL:HA	46:RL:119:VAL:HG12	1.87	0.56
45:RM:185:TYR:HH	45:RM:399:TYR:HD2	1.54	0.56
46:SD:347:ASN:ND2	45:SE:176:GLN:O	2.38	0.56
45:SK:85:GLN:OE1	45:SK:85:GLN:N	2.30	0.56
45:TC:408:TYR:HD2	45:TC:418:PHE:HZ	1.52	0.56
46:TD:418:LEU:HA	46:TD:421:GLU:HG3	1.87	0.56
45:TE:338:LYS:HZ2	45:TE:340:THR:H	1.53	0.56
46:TF:113:ILE:HG21	46:TF:150:LEU:HD22	1.87	0.56
46:TH:289:LEU:HD23	46:TH:365:VAL:HG23	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TH:322:SER:OG	46:TH:325:GLU:OE2	2.24	0.56
46:UB:87:PRO:HA	46:UB:90:PHE:HD2	1.71	0.56
46:UD:148:GLY:O	46:UD:152:ILE:HG12	2.06	0.56
45:UE:251:ASP:OD1	45:UE:252:ILE:N	2.37	0.56
46:UF:285:THR:HB	46:UF:287:PRO:HD2	1.87	0.56
45:UI:319:TYR:HB3	45:UI:323:VAL:HG21	1.88	0.56
46:UJ:128:ASP:OD1	46:UJ:129:CYS:N	2.39	0.56
45:VA:260:VAL:HG13	46:VD:397:TRP:HZ2	1.71	0.56
45:VE:358:GLN:NE2	45:VE:359:PRO:O	2.37	0.56
45:VK:391:LEU:HD22	45:VK:394:LYS:HZ1	1.71	0.56
45:WC:222:PRO:HG2	46:WD:324:LYS:HG2	1.86	0.56
45:WK:324:VAL:HG12	45:WK:326:LYS:H	1.71	0.56
45:WM:119:LEU:HB3	45:WM:123:ARG:HH12	1.71	0.56
6:OF:53:ALA:HB2	45:EE:279:GLU:CD	2.26	0.55
23:IO:266:GLU:O	45:UA:282:TYR:CZ	2.59	0.55
10:1Q:31:ASN:O	35:4S:197:ARG:NH2	2.39	0.55
30:3H:187:LEU:HD12	46:AH:279:GLN:HB3	1.88	0.55
34:4R:565:ASP:OD2	34:4R:567:ASN:ND2	2.38	0.55
37:5F:151:GLU:HG3	37:5G:11:TRP:CZ2	2.41	0.55
10:6Q:102:ARG:CZ	45:AM:430:LYS:HZ1	2.19	0.55
45:AC:141:VAL:HG11	45:AC:172:TYR:CD1	2.41	0.55
46:AD:67:ASP:OD1	46:AD:68:LEU:N	2.39	0.55
45:BE:76:ASP:OD2	46:BF:46:ARG:NH2	2.40	0.55
46:BH:3:GLU:HG3	46:BH:49:VAL:O	2.06	0.55
46:CF:211:CYS:SG	46:CF:220:PRO:HG3	2.46	0.55
46:DB:189:VAL:O	46:DB:193:VAL:HG13	2.07	0.55
45:DE:76:ASP:HA	45:DE:79:ARG:HG2	1.88	0.55
45:DK:195:LEU:HD21	45:DK:264:ARG:HH21	1.71	0.55
45:DK:346:TRP:CD1	46:DL:391:ARG:HG3	2.41	0.55
46:DL:67:ASP:O	46:DL:92:PHE:HA	2.06	0.55
45:DM:135:PHE:HB2	45:DM:166:LYS:HG2	1.86	0.55
46:EH:274:THR:HB	46:EH:282:ARG:NH2	2.21	0.55
46:EN:318:ARG:HB2	46:EN:364:ALA:HB3	1.87	0.55
45:FI:276:ILE:HG13	45:FI:280:LYS:HE2	1.88	0.55
45:GE:282:TYR:OH	45:GE:370:LYS:O	2.10	0.55
46:GH:67:ASP:HB2	46:GH:73:MET:HE2	1.86	0.55
46:GH:294:PHE:HE2	46:GH:333:VAL:HG11	1.71	0.55
46:GL:290:THR:HA	46:GL:293:MET:HG2	1.88	0.55
46:HL:22:GLU:HA	46:HL:81:PHE:HD1	1.71	0.55
46:ID:42:LEU:HA	46:ID:45:GLU:HB2	1.88	0.55
46:IH:20:PHE:HA	46:IH:230:SER:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IL:133:PHE:HB2	46:IL:164:MET:HG3	1.88	0.55
45:IM:136:LEU:HD13	45:IM:167:LEU:HB2	1.87	0.55
45:IM:231:ILE:O	45:IM:235:ILE:HG12	2.06	0.55
45:JA:31:GLN:HE22	45:JA:37:PRO:HG3	1.70	0.55
45:JC:287:SER:HA	45:JC:373:ARG:HH21	1.70	0.55
45:JE:317:MET:HB3	45:JE:377:MET:HG2	1.88	0.55
45:JG:72:PRO:HD2	46:JH:2:ARG:NH2	2.19	0.55
46:KB:133:PHE:HB2	46:KB:164:MET:HG3	1.88	0.55
45:KE:2:ARG:HH21	45:KE:243:ARG:HA	1.71	0.55
46:KL:263:LEU:HG	46:KL:422:TYR:CE1	2.42	0.55
45:LA:430:LYS:HA	45:LA:430:LYS:HE2	1.87	0.55
45:LK:176:GLN:NE2	45:LK:207:GLU:OE1	2.38	0.55
45:LM:210:TYR:HH	46:LN:323:THR:HG1	1.45	0.55
46:MD:229:VAL:HG12	46:MD:233:MET:HE1	1.87	0.55
45:ME:362:VAL:HB	45:ME:370:LYS:HB3	1.88	0.55
45:MI:276:ILE:HD11	45:MI:280:LYS:HD2	1.87	0.55
46:MJ:6:HIS:NE2	46:MJ:8:GLN:OE1	2.39	0.55
45:MM:88:HIS:HB3	45:MM:91:GLN:HG2	1.88	0.55
46:MN:73:MET:HA	46:MN:76:VAL:HG12	1.87	0.55
45:NC:109:THR:HG22	45:NC:110:ILE:HG23	1.88	0.55
45:NG:141:VAL:HG22	45:NG:187:SER:HA	1.88	0.55
45:NI:220:GLU:HG2	45:NI:221:ARG:HD2	1.87	0.55
45:NM:271:SER:HB2	45:NM:377:MET:HG2	1.88	0.55
45:OA:322:ASP:OD1	45:OA:373:ARG:NH1	2.39	0.55
46:OB:226:ASN:ND2	49:OB:501:GDP:HN1	2.01	0.55
45:OC:416:GLY:O	45:OC:419:SER:N	2.39	0.55
45:OG:141:VAL:HG22	45:OG:187:SER:HA	1.87	0.55
46:OL:398:TYR:O	46:OL:403:MET:HB2	2.06	0.55
46:PB:268:ILE:HG22	46:PB:368:VAL:HG22	1.86	0.55
46:PD:309:ARG:NH2	46:PD:426:GLN:O	2.34	0.55
45:PE:242:LEU:HD11	45:PE:252:ILE:HG12	1.88	0.55
46:PH:221:THR:HG23	46:PH:224:ASP:H	1.70	0.55
46:PJ:7:ILE:HG22	46:PJ:64:ILE:HB	1.88	0.55
46:PN:140:GLY:HA2	46:PN:181:GLU:OE1	2.06	0.55
45:QA:254:GLU:HG2	46:QB:98:GLY:HA2	1.88	0.55
45:QA:346:TRP:CD1	46:QB:391:ARG:HG3	2.41	0.55
46:QH:289:LEU:HD13	46:QH:365:VAL:HG23	1.88	0.55
46:QJ:229:VAL:O	46:QJ:233:MET:HG2	2.06	0.55
46:RD:323:THR:HG1	45:RE:210:TYR:HH	1.50	0.55
46:RF:67:ASP:O	46:RF:92:PHE:HA	2.06	0.55
46:RH:334:GLN:HA	46:RH:341:PHE:HE2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SE:69:ASP:OD1	45:SE:70:LEU:N	2.38	0.55
45:SE:402:ARG:HG3	45:SE:402:ARG:O	2.05	0.55
45:SG:275:ILE:HA	45:SG:368:LEU:HD11	1.88	0.55
46:TB:87:PRO:HA	46:TB:90:PHE:HD2	1.70	0.55
46:TB:252:LYS:NZ	47:TC:501:GTP:O1G	2.32	0.55
46:TD:73:MET:HA	46:TD:76:VAL:HG12	1.88	0.55
46:TH:102:ALA:O	46:TH:106:TYR:HB2	2.05	0.55
45:TI:33:ASP:OD1	45:TI:85:GLN:NE2	2.40	0.55
45:TI:90:GLU:OE1	45:UI:280:LYS:NZ	2.35	0.55
46:TJ:156:ARG:NH2	46:TJ:195:ASN:O	2.39	0.55
46:TL:139:LEU:N	46:TL:169:VAL:O	2.28	0.55
46:UB:331:LEU:HD11	45:UC:177:VAL:HA	1.88	0.55
46:UH:6:HIS:NE2	46:UH:8:GLN:OE1	2.34	0.55
45:UK:251:ASP:OD1	45:UK:252:ILE:N	2.39	0.55
46:UL:6:HIS:O	46:UL:63:ALA:HA	2.06	0.55
46:VB:58:ARG:NH2	46:WB:280:GLN:OE1	2.39	0.55
46:VD:182:PRO:HD2	46:VD:388:MET:HE2	1.88	0.55
46:VJ:294:PHE:HE2	46:VJ:333:VAL:HG21	1.70	0.55
45:VM:265:ILE:HG22	45:VM:380:ASN:HD21	1.70	0.55
46:WB:200:MET:HE2	46:WB:266:PHE:HB2	1.87	0.55
46:WF:16:ILE:HD12	46:WF:229:VAL:HG11	1.88	0.55
45:WG:346:TRP:CD1	46:WJ:391:ARG:HG3	2.41	0.55
46:WJ:325:GLU:HA	46:WJ:328:GLU:HG3	1.87	0.55
21:1L:575:LYS:NZ	45:AE:84:ARG:HE	2.04	0.55
21:2L:523:GLN:HB3	46:BN:320:ARG:NH1	2.20	0.55
40:6G:210:ARG:HA	46:VF:297:LYS:HZ1	1.70	0.55
45:AA:248:LEU:HB2	45:AA:355:ILE:HG22	1.88	0.55
45:AG:260:VAL:HB	46:AJ:397:TRP:HZ2	1.72	0.55
45:BA:192:HIS:ND1	45:BA:424:ASP:OD2	2.37	0.55
45:BA:268:MET:HG3	45:BA:380:ASN:HB2	1.87	0.55
46:BD:91:VAL:HG21	46:BD:116:VAL:HB	1.88	0.55
45:BI:11:GLN:HG3	45:BI:74:VAL:HG11	1.87	0.55
45:BK:141:VAL:HG11	45:BK:172:TYR:HD1	1.70	0.55
46:BN:318:ARG:HG2	46:BN:357:PRO:HA	1.87	0.55
46:CB:12:CYS:O	46:CB:16:ILE:HG12	2.07	0.55
45:CK:292:THR:HG21	45:CK:331:SER:HB3	1.87	0.55
46:DB:60:VAL:HB	46:EB:281:TYR:HD2	1.71	0.55
46:DD:221:THR:HG23	46:DD:224:ASP:H	1.72	0.55
46:DD:273:LEU:H	46:DD:292:GLN:HE22	1.52	0.55
45:DG:268:MET:HB2	45:DG:379:SER:O	2.05	0.55
45:DG:335:ILE:HA	45:DG:338:LYS:HE3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EH:21:TRP:HA	46:EH:24:ILE:HG22	1.89	0.55
46:EH:260:PHE:HB2	46:EH:263:LEU:HD13	1.88	0.55
46:EJ:289:LEU:HD13	46:EJ:365:VAL:HG23	1.88	0.55
45:EK:395:PHE:HZ	45:EK:418:PHE:HB3	1.71	0.55
45:EM:390:ARG:O	45:EM:394:LYS:HG2	2.07	0.55
45:FI:176:GLN:NE2	45:FI:207:GLU:OE2	2.40	0.55
46:FJ:68:LEU:HB3	46:FJ:96:GLY:HA2	1.87	0.55
45:FM:52:PHE:H	45:FM:243:ARG:NH2	2.04	0.55
45:GE:118:CYS:O	45:GE:122:ILE:HG12	2.06	0.55
45:GK:209:ILE:HG23	45:GK:227:LEU:HD22	1.88	0.55
46:HD:200:MET:HE1	46:HD:266:PHE:HB2	1.89	0.55
45:HE:326:LYS:HG3	45:HE:327:ASP:N	2.21	0.55
45:IA:166:LYS:O	45:IA:199:ASP:HB3	2.06	0.55
45:IG:332:ILE:HD11	45:IG:351:PHE:CG	2.41	0.55
46:JB:45:GLU:HG2	46:JB:46:ARG:HG2	1.87	0.55
46:JD:207:LEU:HB3	46:JD:225:LEU:HD22	1.87	0.55
45:JI:205:ASP:OD1	45:JI:303:ALA:HA	2.06	0.55
46:JN:222:TYR:O	46:JN:226:ASN:ND2	2.29	0.55
46:KB:31:ASP:OD1	46:KB:35:THR:N	2.37	0.55
46:KF:63:ALA:O	46:KF:89:ASN:ND2	2.39	0.55
46:KF:318:ARG:HE	46:KF:358:PRO:HG3	1.71	0.55
45:KG:103:PHE:HB2	45:KG:186:ASN:HB3	1.87	0.55
45:KG:331:SER:O	45:KG:335:ILE:HG12	2.06	0.55
45:KK:326:LYS:HZ3	46:KN:220:PRO:HD2	1.71	0.55
45:KM:11:GLN:HG3	45:KM:74:VAL:HG11	1.87	0.55
45:LE:98:ASP:OD1	45:LE:99:ALA:N	2.40	0.55
46:LJ:54:ALA:HB3	46:LJ:58:ARG:HG2	1.88	0.55
46:LL:101:TRP:NE1	46:LL:188:SER:OG	2.38	0.55
46:LN:86:ARG:HE	46:LN:86:ARG:HA	1.72	0.55
45:MC:9:VAL:HG12	45:MC:68:LEU:HB2	1.86	0.55
45:MM:181:VAL:HG23	45:MM:182:VAL:HG13	1.88	0.55
45:MM:285:GLN:NE2	45:MM:290:GLU:OE2	2.39	0.55
46:MN:178:THR:HG22	46:MN:180:VAL:H	1.72	0.55
45:NC:180:ALA:HA	46:ND:350:LYS:HZ2	1.71	0.55
45:NC:222:PRO:O	46:ND:322:SER:OG	2.18	0.55
45:NE:430:LYS:O	45:NE:433:GLU:HG3	2.05	0.55
45:NI:399:TYR:OH	45:NI:402:ARG:NH2	2.39	0.55
45:NK:31:GLN:HG2	45:NK:32:PRO:HD2	1.88	0.55
46:NL:254:ALA:O	46:NL:258:ILE:HG22	2.07	0.55
46:NN:161:ASP:HB2	46:NN:162:ARG:HH21	1.71	0.55
45:OC:276:ILE:HD11	45:OC:280:LYS:HG3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OD:58:ARG:HH22	46:OD:84:LEU:HA	1.71	0.55
46:OH:186:THR:HA	46:OH:189:VAL:HG12	1.89	0.55
46:ON:372:THR:HA	46:ON:422:TYR:HE2	1.72	0.55
45:PG:70:LEU:HD13	45:PG:95:GLY:HA3	1.87	0.55
45:PG:387:VAL:O	45:PG:390:ARG:HG2	2.06	0.55
46:QB:74:ASP:OD1	46:QB:77:ARG:NH1	2.38	0.55
45:QC:90:GLU:OE1	45:QC:121:ARG:NE	2.40	0.55
45:QE:280:LYS:HE3	45:QE:283:HIS:HB2	1.86	0.55
45:RE:328:VAL:HG11	45:RE:353:VAL:HG21	1.86	0.55
45:RK:329:ASN:HA	45:RK:332:ILE:HG12	1.87	0.55
45:SK:261:PRO:HA	46:SL:394:PHE:HD1	1.72	0.55
45:TE:69:ASP:HB3	45:TE:75:ILE:HD11	1.88	0.55
45:TG:265:ILE:HG22	45:TG:432:TYR:HE1	1.71	0.55
45:TK:426:ALA:HB1	45:TK:430:LYS:NZ	2.20	0.55
45:UC:184:PRO:O	45:UC:188:ILE:HG12	2.07	0.55
45:UC:217:LEU:HB3	45:UC:219:ILE:HG12	1.88	0.55
46:UD:2:ARG:H	46:UD:129:CYS:HG	1.54	0.55
45:UE:70:LEU:HD13	45:UE:95:GLY:HA3	1.88	0.55
45:UK:121:ARG:HE	45:UK:124:LYS:HE2	1.70	0.55
46:VD:8:GLN:HE21	46:VD:65:LEU:HG	1.72	0.55
46:VH:372:THR:HA	46:VH:422:TYR:HE2	1.70	0.55
46:VJ:375:GLN:HG3	46:VJ:419:VAL:HG13	1.88	0.55
46:VL:135:ILE:HG13	46:VL:152:ILE:HD11	1.88	0.55
46:VN:67:ASP:OD1	46:VN:68:LEU:N	2.38	0.55
45:WA:68:LEU:HD21	45:WA:118:CYS:HB2	1.88	0.55
46:WB:100:ASN:ND2	46:WB:401:GLU:OE1	2.38	0.55
45:WE:395:PHE:HZ	45:WE:418:PHE:HB3	1.69	0.55
46:WL:266:PHE:CE1	46:WL:370:ASN:HB2	2.41	0.55
2:0B:202:GLY:HA3	45:KI:372:MET:SD	2.46	0.55
6:0F:66:SER:HB2	46:DD:56:GLY:HA2	1.88	0.55
15:1X:5:LYS:NZ	45:ME:245:ASP:OD1	2.35	0.55
12:2T:139:TYR:O	45:MG:163:LYS:NZ	2.31	0.55
15:4X:2:LYS:HZ2	46:LL:74:ASP:HB3	1.71	0.55
36:5B:146:VAL:HG13	36:5B:147:TYR:HD1	1.71	0.55
37:5E:97:ARG:HH22	46:KB:262:ARG:HD3	1.71	0.55
37:5F:126:LEU:HD22	45:OE:285:GLN:HE22	1.71	0.55
34:5R:321:MET:HB2	46:CJ:279:GLN:NE2	2.21	0.55
39:6F:42:ASN:OD1	39:6F:57:SER:OG	2.21	0.55
34:6R:129:VAL:HB	34:6R:145:ILE:HB	1.88	0.55
47:AI:501:GTP:O1G	46:AJ:252:LYS:NZ	2.25	0.55
45:CG:211:ASP:OD2	45:CG:215:ARG:NE	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CL:268:ILE:HG22	46:CL:368:VAL:HG22	1.87	0.55
46:DD:86:ARG:NH2	46:ED:282:ARG:HG2	2.20	0.55
45:DG:191:THR:HA	45:DG:194:LEU:HG	1.88	0.55
45:DM:11:GLN:NE2	45:DM:69:ASP:OD2	2.39	0.55
45:DM:101:ASN:HA	45:DM:144:GLY:H	1.71	0.55
45:EK:208:ALA:O	45:EK:212:ILE:HG12	2.06	0.55
45:FC:11:GLN:HG3	45:FC:74:VAL:HG11	1.88	0.55
45:FI:328:VAL:O	45:FI:332:ILE:HG12	2.07	0.55
45:GA:398:MET:HG3	46:GB:345:ILE:HG22	1.87	0.55
46:GD:171:PRO:HB2	46:GD:181:GLU:HG2	1.88	0.55
45:GI:227:LEU:O	45:GI:231:ILE:HG12	2.06	0.55
46:HH:26:ASP:O	46:HH:359:LYS:NZ	2.27	0.55
45:HK:3:GLU:OE2	45:HK:131:GLY:N	2.38	0.55
45:IC:175:PRO:HB2	45:IC:176:GLN:OE1	2.06	0.55
46:ID:113:ILE:HG21	46:ID:150:LEU:HD22	1.88	0.55
45:IE:407:TRP:HE1	46:IF:258:ILE:HG23	1.71	0.55
45:IG:179:THR:HG21	46:IH:246:LEU:HD13	1.88	0.55
45:IM:116:ASP:OD1	45:IM:117:LEU:N	2.38	0.55
46:JB:73:MET:HA	46:JB:76:VAL:HG12	1.89	0.55
45:JC:123:ARG:NH2	45:JC:160:ASP:OD2	2.39	0.55
45:JG:136:LEU:HD12	45:JG:169:PHE:HE2	1.71	0.55
46:JH:52:ASN:OD1	46:JH:62:ARG:NH2	2.39	0.55
45:KE:346:TRP:CD1	46:KH:391:ARG:HG3	2.42	0.55
45:KK:98:ASP:OD1	45:KK:99:ALA:N	2.39	0.55
45:LE:55:GLU:HG3	45:LE:57:GLY:H	1.72	0.55
45:LK:206:ASN:HB3	45:LK:210:TYR:CE2	2.42	0.55
46:LL:286:VAL:HG21	46:LL:325:GLU:HB3	1.87	0.55
46:NB:318:ARG:HD3	46:NB:358:PRO:HG3	1.88	0.55
45:NE:72:PRO:HD2	46:NF:2:ARG:HH12	1.72	0.55
46:NJ:318:ARG:HB3	46:NJ:357:PRO:HA	1.87	0.55
45:NK:99:ALA:HA	45:NK:105:ARG:HD2	1.88	0.55
45:OE:298:PRO:HG3	45:OE:308:ARG:HH22	1.70	0.55
46:OJ:313:ALA:HB1	46:OJ:367:PHE:HE1	1.71	0.55
46:OJ:406:MET:O	46:OJ:410:GLU:HG2	2.07	0.55
46:PD:55:THR:HG23	46:QB:283:ALA:HA	1.89	0.55
46:PF:63:ALA:O	46:PF:89:ASN:ND2	2.39	0.55
46:PJ:48:ASN:O	46:PJ:62:ARG:NH1	2.36	0.55
46:QB:12:CYS:HA	46:QB:15:GLN:NE2	2.20	0.55
46:QB:67:ASP:O	46:QB:92:PHE:HA	2.06	0.55
46:QB:87:PRO:HA	46:QB:90:PHE:CD1	2.41	0.55
46:QB:101:TRP:HB2	46:QB:184:ASN:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:258:ILE:HD11	45:QC:407:TRP:HZ2	1.71	0.55
46:RB:261:PRO:HD3	45:RC:406:HIS:CE1	2.41	0.55
45:RC:184:PRO:O	45:RC:188:ILE:HD12	2.06	0.55
46:RF:258:ILE:HG13	45:RG:407:TRP:HZ2	1.70	0.55
46:RF:323:THR:OG1	45:RG:210:TYR:OH	2.16	0.55
46:RN:100:ASN:HD21	46:RN:102:ALA:HB3	1.71	0.55
45:SC:60:LYS:HE2	45:TC:283:HIS:HD2	1.71	0.55
46:SD:12:CYS:O	46:SD:16:ILE:HG12	2.07	0.55
46:SJ:58:ARG:NH2	46:TJ:280:GLN:OE1	2.38	0.55
45:SK:15:GLN:O	45:SK:18:ASN:ND2	2.39	0.55
46:SL:21:TRP:CH2	46:SL:61:PRO:HB2	2.41	0.55
45:TA:328:VAL:HG11	45:TA:353:VAL:HG21	1.88	0.55
46:TF:68:LEU:HB3	46:TF:96:GLY:HA2	1.88	0.55
46:TL:310:TYR:HD1	46:TL:371:SER:HB2	1.71	0.55
45:TM:242:LEU:HD11	45:TM:252:ILE:HG13	1.88	0.55
46:UB:222:TYR:O	46:UB:226:ASN:ND2	2.30	0.55
46:UD:2:ARG:NH2	45:UE:72:PRO:HD3	2.22	0.55
46:UD:133:PHE:HB2	46:UD:164:MET:HG3	1.89	0.55
46:UJ:163:ILE:HA	46:UJ:197:ASP:OD2	2.06	0.55
45:VC:171:ILE:O	45:VC:171:ILE:HG13	2.06	0.55
45:VC:345:ASP:N	45:VC:345:ASP:OD1	2.39	0.55
45:VE:318:MET:HB3	45:VE:376:CYS:SG	2.47	0.55
45:VG:260:VAL:HB	46:VJ:397:TRP:HZ2	1.71	0.55
46:VJ:299:MET:HG3	46:VJ:301:CYS:H	1.71	0.55
45:VM:11:GLN:NE2	46:VN:245:GLN:O	2.40	0.55
45:WA:220:GLU:O	45:WA:221:ARG:HD2	2.06	0.55
46:WF:3:GLU:HG3	46:WF:49:VAL:HA	1.89	0.55
46:WF:226:ASN:HA	46:WF:229:VAL:HG12	1.88	0.55
45:WI:208:ALA:O	45:WI:212:ILE:HG12	2.07	0.55
45:CE:259:LEU:HB3	45:CE:268:MET:CE	2.35	0.55
4:0D:224:ARG:NE	34:7R:493:GLY:HA3	2.22	0.55
6:0F:34:GLY:O	45:DE:79:ARG:NH1	2.39	0.55
4:1D:20:LYS:NZ	46:CF:53:GLU:HB3	2.20	0.55
8:1H:139:ARG:NH1	45:HI:370:LYS:HG3	2.22	0.55
25:1R:181:PHE:CE1	46:AF:80:PRO:HB3	2.40	0.55
21:2L:761:TYR:OH	45:BK:219:ILE:HG23	2.05	0.55
21:2L:894:ARG:HH12	45:CK:365:GLY:H	1.55	0.55
24:2P:418:GLN:HE21	46:TL:276:ARG:HH11	1.53	0.55
35:4S:211:ASN:HB3	35:4S:217:LEU:HD21	1.88	0.55
36:5A:22:TYR:HB3	36:5A:61:SER:H	1.71	0.55
36:5B:145:ASN:OD1	36:5B:146:VAL:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5B:153:PHE:HE2	45:NG:365:GLY:H	1.54	0.55
37:5G:9:TYR:CD1	37:5G:10:PRO:HD3	2.42	0.55
37:5G:52:GLY:N	37:5G:55:GLU:OE2	2.34	0.55
46:AB:67:ASP:O	46:AB:92:PHE:HA	2.04	0.55
45:AC:111:GLY:O	45:AC:115:VAL:HG13	2.06	0.55
45:AI:292:THR:HG21	45:AI:331:SER:HB3	1.87	0.55
45:AK:259:LEU:HD11	45:AK:316:SER:HB3	1.87	0.55
45:BE:222:PRO:O	46:BF:324:LYS:HD2	2.06	0.55
46:BH:139:LEU:HD13	46:BH:168:SER:HB3	1.87	0.55
46:BN:64:ILE:HD13	46:BN:119:VAL:HG13	1.88	0.55
45:CC:322:ASP:OD1	45:CC:373:ARG:NH1	2.34	0.55
45:CG:36:MET:SD	45:CG:37:PRO:HD2	2.46	0.55
46:CH:274:THR:HB	46:CH:282:ARG:HH11	1.71	0.55
46:CJ:222:TYR:HD1	49:CJ:501:GDP:C6	2.24	0.55
46:CL:119:VAL:O	46:CL:123:GLU:HG2	2.07	0.55
46:DB:317:PHE:CD1	46:DB:365:VAL:HG22	2.41	0.55
46:DF:190:HIS:CE1	46:DF:414:ASN:HD22	2.24	0.55
45:EA:76:ASP:OD1	45:EA:79:ARG:NH2	2.39	0.55
45:EA:328:VAL:HG11	45:EA:353:VAL:HG21	1.88	0.55
45:EC:258:ASN:HD22	45:EC:352:LYS:HD3	1.70	0.55
46:EF:5:VAL:HG12	46:EF:62:ARG:HD3	1.87	0.55
46:EN:204:ASN:OD1	49:EN:501:GDP:O2'	2.20	0.55
45:FC:22:GLU:HG3	45:FC:83:TYR:HE2	1.71	0.55
45:GA:80:THR:O	45:GA:84:ARG:NH2	2.39	0.55
45:GA:259:LEU:HD23	45:GA:268:MET:HG2	1.89	0.55
45:GC:20:CYS:HB3	45:GC:24:PHE:HE2	1.71	0.55
46:GD:342:VAL:HG13	46:GD:345:ILE:HG22	1.89	0.55
46:GJ:127:CYS:SG	46:GJ:128:ASP:N	2.79	0.55
45:GK:226:ASN:ND2	45:GK:367:ASP:OD1	2.40	0.55
46:HB:86:ARG:NH1	46:IB:281:TYR:HB3	2.21	0.55
46:HD:181:GLU:N	46:HD:181:GLU:OE2	2.40	0.55
46:ID:378:PHE:HA	46:ID:381:VAL:HG12	1.88	0.55
45:IE:205:ASP:OD1	45:IE:303:ALA:HA	2.06	0.55
45:IG:271:SER:HB2	45:IG:301:MET:SD	2.47	0.55
46:IH:22:GLU:HG2	46:IH:81:PHE:CD1	2.41	0.55
46:IJ:148:GLY:O	46:IJ:152:ILE:HG12	2.07	0.55
45:JG:372:MET:SD	45:JG:373:ARG:HG3	2.47	0.55
45:JI:292:THR:HG22	45:JI:335:ILE:HD11	1.88	0.55
45:JM:90:GLU:CD	45:KM:280:LYS:HZ3	2.08	0.55
45:KA:18:ASN:O	45:KA:22:GLU:HG2	2.06	0.55
45:KG:335:ILE:HD13	45:KG:338:LYS:NZ	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LA:214:ARG:HD3	46:LB:324:LYS:HE3	1.88	0.55
45:NI:229:ARG:NH1	45:NI:366:GLY:HA2	2.21	0.55
45:NI:325:PRO:HB2	46:NL:208:TYR:OH	2.06	0.55
45:OA:102:ASN:CB	46:OB:251:ARG:HH22	2.18	0.55
45:OC:3:GLU:OE2	45:OC:131:GLY:N	2.40	0.55
45:OE:31:GLN:HG3	45:OE:37:PRO:HG3	1.89	0.55
46:ON:316:LEU:HD13	46:ON:352:SER:OG	2.06	0.55
45:PC:154:LEU:HD22	45:PC:197:HIS:HB3	1.88	0.55
46:PD:19:LYS:HE2	46:PD:227:HIS:ND1	2.21	0.55
45:PK:8:HIS:HB2	45:PK:67:PHE:HD2	1.71	0.55
46:PN:86:ARG:HG3	46:PN:88:ASP:H	1.70	0.55
45:QC:264:ARG:NH1	45:QC:431:ASP:OD2	2.40	0.55
45:QC:358:GLN:NE2	45:QC:359:PRO:O	2.37	0.55
45:QE:244:PHE:HB2	45:QE:356:ASN:HD21	1.71	0.55
45:QE:254:GLU:HG3	46:QF:98:GLY:HA2	1.88	0.55
46:QF:55:THR:HG23	46:RF:283:ALA:HA	1.89	0.55
46:QF:282:ARG:NH2	46:QF:288:GLU:OE2	2.39	0.55
45:QG:329:ASN:HA	45:QG:332:ILE:HG12	1.88	0.55
45:QK:101:ASN:HA	45:QK:144:GLY:H	1.71	0.55
45:QK:420:GLU:OE2	45:QK:420:GLU:N	2.36	0.55
45:RG:326:LYS:HD2	46:RH:212:PHE:HZ	1.72	0.55
46:RL:375:GLN:HG3	46:RL:419:VAL:HG13	1.88	0.55
45:RM:171:ILE:HG13	45:RM:171:ILE:O	2.06	0.55
46:SD:316:LEU:HG	46:SD:352:SER:HB2	1.88	0.55
45:SG:56:THR:HG21	45:SG:60:LYS:HG3	1.87	0.55
46:SJ:12:CYS:O	46:SJ:16:ILE:HG12	2.06	0.55
45:TC:336:LYS:HE3	45:TC:351:PHE:HE1	1.71	0.55
45:TG:55:GLU:HG3	45:TG:57:GLY:H	1.72	0.55
46:TL:299:MET:HG3	46:TL:301:CYS:H	1.71	0.55
45:TM:88:HIS:CD2	45:UM:283:HIS:HD2	2.25	0.55
46:UB:105:HIS:CE1	46:UB:150:LEU:HD12	2.42	0.55
45:UC:88:HIS:HB3	45:UC:91:GLN:HG2	1.88	0.55
45:UC:118:CYS:O	45:UC:122:ILE:HG12	2.07	0.55
46:UD:64:ILE:HD13	46:UD:119:VAL:HG13	1.87	0.55
46:UJ:254:ALA:O	46:UJ:258:ILE:HG22	2.06	0.55
45:VI:419:SER:O	45:VI:423:GLU:HG2	2.07	0.55
46:VN:116:VAL:HA	46:VN:119:VAL:HG12	1.86	0.55
46:VN:273:LEU:N	46:VN:292:GLN:HE22	2.03	0.55
45:WA:109:THR:O	45:WA:112:LYS:NZ	2.38	0.55
45:WC:136:LEU:HD23	45:WC:167:LEU:HB2	1.88	0.55
45:WG:387:VAL:HA	45:WG:390:ARG:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WI:175:PRO:HG3	45:WI:390:ARG:NH1	2.21	0.55
45:WI:227:LEU:O	45:WI:231:ILE:HD12	2.07	0.55
45:WI:268:MET:SD	45:WI:380:ASN:HB2	2.47	0.55
45:WK:136:LEU:HD13	45:WK:167:LEU:HB2	1.87	0.55
46:WL:221:THR:HG23	46:WL:224:ASP:H	1.70	0.55
45:DC:191:THR:HA	45:DC:194:LEU:HG	1.89	0.55
1:0A:71:TYR:CE2	46:AB:320:ARG:HB3	2.42	0.55
8:1H:90:ARG:NH1	45:HK:279:GLU:HA	2.20	0.55
21:1L:479:VAL:HG21	34:4R:323:LEU:H	1.70	0.55
21:2L:772:ASN:HD22	45:BK:278:ALA:HB3	1.70	0.55
11:2S:152:SER:OG	46:WJ:94:GLN:NE2	2.39	0.55
14:3V:122:LYS:HE2	46:LD:390:ARG:HH22	1.70	0.55
15:4X:19:ASN:OD1	15:4X:20:GLY:N	2.40	0.55
41:6H:292:ASN:O	41:6H:294:PRO:HD3	2.05	0.55
41:6H:304:LYS:HG3	45:FG:225:THR:HG21	1.88	0.55
45:AA:2:ARG:NH2	46:AD:69:GLU:OE2	2.34	0.55
46:AB:377:MET:HA	46:AB:380:ARG:HH11	1.69	0.55
45:AG:118:CYS:O	45:AG:122:ILE:HG12	2.06	0.55
45:AI:88:HIS:CE1	45:AI:90:GLU:HG2	2.42	0.55
45:AK:208:ALA:O	45:AK:212:ILE:HG12	2.07	0.55
46:BB:287:PRO:O	46:BB:291:GLN:HG3	2.07	0.55
45:BK:226:ASN:ND2	45:BK:367:ASP:OD2	2.40	0.55
46:CB:3:GLU:HA	46:CB:49:VAL:HG23	1.89	0.55
45:CG:413:MET:HE2	45:CG:413:MET:HA	1.89	0.55
46:CH:322:SER:OG	46:CH:323:THR:N	2.39	0.55
46:CJ:273:LEU:H	46:CJ:292:GLN:HE22	1.52	0.55
46:DB:6:HIS:O	46:DB:63:ALA:HA	2.07	0.55
46:DD:309:ARG:NH1	46:DD:341:PHE:O	2.38	0.55
45:DG:206:ASN:OD1	47:DG:501:GTP:N2	2.39	0.55
46:ED:175:VAL:HG13	46:ED:205:GLU:OE1	2.07	0.55
46:EH:86:ARG:NH1	46:FH:282:ARG:HH22	2.05	0.55
46:EH:213:ARG:NE	46:EH:297:LYS:HZ2	2.04	0.55
46:EJ:96:GLY:O	46:EJ:103:LYS:NZ	2.36	0.55
45:FK:88:HIS:HA	45:GK:283:HIS:CE1	2.41	0.55
45:GC:105:ARG:HG2	45:GC:411:GLU:OE2	2.05	0.55
46:GH:309:ARG:H	46:GH:372:THR:HG1	1.54	0.55
45:GM:284:GLU:HG3	45:GM:286:LEU:HD22	1.87	0.55
45:HG:205:ASP:OD1	45:HG:303:ALA:HA	2.06	0.55
46:HH:31:ASP:OD1	46:HH:35:THR:N	2.33	0.55
45:IA:98:ASP:O	45:IA:105:ARG:NH1	2.40	0.55
45:IA:316:SER:HA	45:IA:352:LYS:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IC:269:LEU:HG	45:IC:301:MET:HE2	1.87	0.55
46:IH:145:SER:HB2	46:IH:188:SER:HB3	1.88	0.55
46:IH:226:ASN:ND2	49:IH:501:GDP:HN1	2.03	0.55
46:IL:148:GLY:O	46:IL:152:ILE:HG12	2.06	0.55
45:JC:224:TYR:O	45:JC:228:ASN:ND2	2.26	0.55
46:JF:6:HIS:NE2	46:JF:8:GLN:OE1	2.39	0.55
46:JJ:69:GLU:OE2	46:JJ:72:THR:OG1	2.21	0.55
46:JN:191:GLN:O	46:JN:195:ASN:ND2	2.39	0.55
45:KC:210:TYR:HE1	45:KC:227:LEU:HD21	1.71	0.55
45:KG:224:TYR:HA	45:KG:227:LEU:HD12	1.89	0.55
45:KG:407:TRP:HE1	46:KH:258:ILE:HB	1.72	0.55
46:KH:330:MET:HB3	46:KH:349:ILE:HD12	1.88	0.55
45:LA:161:TYR:HD1	45:LA:164:LYS:HG3	1.71	0.55
45:ME:241:SER:OG	45:ME:250:VAL:O	2.20	0.55
45:ME:328:VAL:HG11	45:ME:353:VAL:HG21	1.88	0.55
45:MK:244:PHE:HB2	45:MK:356:ASN:HD21	1.70	0.55
45:NI:134:GLY:HA2	45:NI:164:LYS:HE3	1.88	0.55
45:NM:91:GLN:N	45:NM:91:GLN:OE1	2.39	0.55
47:NM:501:GTP:H8	46:NN:246:LEU:HD11	1.71	0.55
46:OJ:6:HIS:HE2	46:OJ:8:GLN:HE21	1.53	0.55
45:PA:100:ALA:HB3	46:PB:251:ARG:NH2	2.22	0.55
45:PE:356:ASN:OD1	45:PE:357:TYR:N	2.40	0.55
45:PG:21:TRP:CZ3	45:PG:63:PRO:HB3	2.42	0.55
45:PG:294:SER:O	45:PG:300:ASN:ND2	2.34	0.55
45:PG:360:PRO:HG2	45:PG:371:VAL:HG23	1.89	0.55
46:PH:178:THR:HB	46:PH:181:GLU:HG2	1.88	0.55
45:PI:426:ALA:HB1	45:PI:430:LYS:NZ	2.22	0.55
46:PJ:19:LYS:HZ1	46:PJ:227:HIS:HB2	1.70	0.55
46:PJ:207:LEU:HD22	46:PJ:228:LEU:HD11	1.89	0.55
46:PJ:392:LYS:HA	46:PJ:395:LEU:HD12	1.89	0.55
46:PN:113:ILE:HD13	46:PN:150:LEU:HD21	1.87	0.55
46:PN:290:THR:HA	46:PN:293:MET:HG2	1.87	0.55
45:QG:326:LYS:NZ	46:QH:219:THR:HA	2.21	0.55
46:QH:153:SER:HA	46:QH:195:ASN:HD22	1.71	0.55
46:QJ:207:LEU:HB3	46:QJ:225:LEU:HD22	1.89	0.55
46:SB:114:ASP:OD1	46:SB:115:SER:N	2.39	0.55
46:SB:132:GLY:HA2	46:SB:162:ARG:HB3	1.88	0.55
45:SE:288:VAL:HG11	45:SE:327:ASP:HB3	1.88	0.55
46:SH:8:GLN:NE2	46:SH:17:GLY:HA3	2.20	0.55
46:TD:207:LEU:HD13	46:TD:210:ILE:HD11	1.89	0.55
46:TD:324:LYS:HA	46:TD:327:ASP:OD2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UC:2:ARG:NH2	46:UD:69:GLU:OE2	2.38	0.55
45:UC:352:LYS:NZ	46:UD:178:THR:HA	2.22	0.55
46:UL:97:ALA:HB3	46:UL:143:THR:HB	1.89	0.55
45:VG:174:SER:HB2	45:VG:177:VAL:HB	1.89	0.55
46:WD:266:PHE:CE1	46:WD:370:ASN:HB2	2.42	0.55
46:WF:19:LYS:HZ1	46:WF:227:HIS:HA	1.71	0.55
45:WG:66:VAL:HG11	45:WG:122:ILE:HD11	1.87	0.55
46:WJ:290:THR:HA	46:WJ:293:MET:HG3	1.88	0.55
45:WK:328:VAL:HG11	45:WK:353:VAL:HG21	1.87	0.55
46:WL:58:ARG:HD2	46:WL:59:TYR:H	1.72	0.55
46:WL:154:LYS:O	46:WL:157:GLU:HG2	2.06	0.55
3:0C:86:LYS:HE2	46:EH:42:LEU:HD21	1.87	0.55
6:0F:80:TYR:CE2	45:EE:81:GLY:HA3	2.42	0.55
21:1L:308:ARG:CZ	45:BG:367:ASP:HA	2.37	0.55
23:1O:210:ILE:HD13	45:UC:282:TYR:CE2	2.42	0.55
23:1O:265:PHE:C	45:UA:282:TYR:CG	2.79	0.55
11:1S:46:TRP:CH2	45:WC:88:HIS:HA	2.41	0.55
20:2K:379:ARG:HD2	45:GG:282:TYR:CD2	2.29	0.55
34:4R:424:LEU:HB3	34:4R:426:PHE:HE2	1.72	0.55
35:4S:213:ASN:O	35:4S:217:LEU:HD13	2.06	0.55
37:5F:120:GLU:HG3	37:5F:121:GLU:HG2	1.89	0.55
41:6H:273:PRO:HA	41:6H:276:ILE:HD13	1.89	0.55
45:AA:238:LEU:HD12	45:AA:318:MET:HE1	1.89	0.55
46:AH:86:ARG:HG2	46:AH:88:ASP:H	1.72	0.55
46:AL:283:ALA:HA	46:ML:55:THR:HG23	1.87	0.55
45:BG:11:GLN:HG3	45:BG:74:VAL:HG11	1.89	0.55
46:BH:67:ASP:O	46:BH:92:PHE:HA	2.06	0.55
46:CB:256:ASN:HB3	46:CB:350:LYS:HE3	1.88	0.55
45:CI:345:ASP:OD1	45:CI:346:TRP:N	2.39	0.55
46:CL:245:GLN:HG3	46:CL:246:LEU:HD12	1.88	0.55
46:CN:25:SER:HG	46:CN:51:TYR:HH	1.53	0.55
46:DF:2:ARG:NH2	45:DG:71:GLU:OE1	2.39	0.55
45:DI:306:ASP:OD1	45:DI:308:ARG:NH2	2.39	0.55
46:DL:287:PRO:HA	46:DL:329:GLN:HE22	1.71	0.55
46:EL:318:ARG:HH22	46:EL:358:PRO:HB3	1.72	0.55
46:FD:73:MET:HA	46:FD:76:VAL:HG12	1.87	0.55
46:FF:139:LEU:HD22	46:FF:170:VAL:HG12	1.88	0.55
45:GE:347:CYS:HA	46:GH:388:MET:HE1	1.87	0.55
46:GF:134:GLN:HA	46:GF:165:GLU:O	2.06	0.55
46:GJ:86:ARG:HG3	46:GJ:88:ASP:H	1.71	0.55
45:HA:72:PRO:HD2	46:HB:2:ARG:HH12	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HC:101:ASN:HA	45:HC:144:GLY:H	1.71	0.55
45:HE:101:ASN:HA	45:HE:144:GLY:H	1.71	0.55
45:IG:207:GLU:HA	45:IG:210:TYR:HB2	1.89	0.55
45:IM:8:HIS:HB2	45:IM:67:PHE:HD2	1.71	0.55
45:IM:60:LYS:HE2	46:JN:281:TYR:CD1	2.42	0.55
45:JG:117:LEU:O	45:JG:121:ARG:HG2	2.07	0.55
45:JM:219:ILE:HG13	45:JM:221:ARG:H	1.71	0.55
45:KG:335:ILE:HD13	45:KG:338:LYS:HZ3	1.69	0.55
46:KN:334:GLN:HE22	46:KN:348:ASN:H	1.53	0.55
46:LD:73:MET:CE	46:LD:92:PHE:HB3	2.37	0.55
46:LH:122:LYS:NZ	46:MH:291:GLN:OE1	2.36	0.55
45:MC:324:VAL:HG12	45:MC:326:LYS:H	1.71	0.55
45:MK:287:SER:N	45:MK:290:GLU:OE2	2.35	0.55
45:MM:69:ASP:OD1	45:MM:70:LEU:N	2.39	0.55
45:NA:215:ARG:HH12	45:NA:300:ASN:HD21	1.55	0.55
46:NB:224:ASP:OD1	46:NB:225:LEU:N	2.39	0.55
46:NH:87:PRO:HA	46:NH:90:PHE:HD2	1.71	0.55
45:NI:180:ALA:HA	46:NJ:350:LYS:HZ3	1.72	0.55
45:NI:296:PHE:HE1	45:NI:377:MET:HG3	1.71	0.55
45:NM:74:VAL:HA	45:NM:77:GLU:OE1	2.07	0.55
45:OI:121:ARG:NH2	45:OI:125:LEU:HD21	2.22	0.55
45:OI:268:MET:HG3	45:OI:380:ASN:HB2	1.88	0.55
45:PI:402:ARG:NH2	45:PI:415:GLU:OE1	2.39	0.55
45:PK:88:HIS:CE1	45:PK:90:GLU:HG2	2.41	0.55
46:PL:226:ASN:HA	46:PL:229:VAL:HG12	1.87	0.55
45:QA:32:PRO:O	45:QA:85:GLN:NE2	2.40	0.55
45:QE:66:VAL:HG21	45:QE:122:ILE:HD11	1.88	0.55
45:QI:254:GLU:OE1	46:QJ:99:ASN:ND2	2.40	0.55
45:QK:141:VAL:HG11	45:QK:172:TYR:CD1	2.38	0.55
46:RD:21:TRP:CZ3	46:RD:61:PRO:HB3	2.41	0.55
46:RD:380:ARG:O	46:RD:384:GLN:HG2	2.07	0.55
45:RE:271:SER:OG	45:RE:301:MET:SD	2.61	0.55
45:RI:265:ILE:HD11	45:RI:435:VAL:HG21	1.88	0.55
45:RI:419:SER:O	45:RI:423:GLU:HG2	2.07	0.55
45:RM:256:GLN:HB2	45:RM:260:VAL:HB	1.88	0.55
46:TD:347:ASN:ND2	45:TE:176:GLN:O	2.39	0.55
45:TE:288:VAL:HA	45:TE:291:ILE:HG12	1.87	0.55
45:TG:76:ASP:OD1	45:TG:79:ARG:NH2	2.39	0.55
45:TI:252:ILE:HA	45:TI:255:PHE:HE2	1.71	0.55
45:TI:336:LYS:HD3	45:TI:351:PHE:HE2	1.72	0.55
46:TJ:226:ASN:HA	46:TJ:229:VAL:HG12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UA:76:ASP:OD1	45:UA:79:ARG:NH2	2.40	0.55
46:UJ:301:CYS:HB3	46:UJ:377:MET:HE1	1.89	0.55
45:UK:69:ASP:OD1	45:UK:70:LEU:N	2.40	0.55
46:UN:87:PRO:HA	46:UN:90:PHE:HD2	1.70	0.55
46:UN:114:ASP:OD1	46:UN:115:SER:N	2.40	0.55
46:VB:190:HIS:ND1	46:VB:411:ALA:HA	2.21	0.55
45:VC:17:GLY:HA2	45:VC:20:CYS:SG	2.46	0.55
45:VE:65:ALA:O	45:VE:91:GLN:NE2	2.40	0.55
46:VH:60:VAL:HG21	46:VH:86:ARG:HD3	1.88	0.55
45:WA:205:ASP:OD2	45:WA:205:ASP:N	2.40	0.55
46:WD:350:LYS:HD3	46:WD:351:SER:H	1.72	0.55
45:WG:352:LYS:HE2	46:WJ:178:THR:HA	1.88	0.55
4:0D:99:ARG:HH22	45:EC:364:PRO:HA	1.70	0.55
4:2D:75:ASP:HA	46:EJ:362:LYS:HE3	1.89	0.55
33:4F:203:ILE:HD12	45:HM:89:PRO:HB3	1.87	0.55
15:4X:49:ILE:O	15:4X:53:ILE:HG12	2.07	0.55
36:5D:87:ARG:HD3	36:5D:87:ARG:N	2.22	0.55
37:5E:144:LEU:O	37:5E:147:GLN:HG3	2.07	0.55
10:5Q:179:PRO:HA	10:5Q:182:LYS:HG2	1.89	0.55
40:6G:88:TYR:CZ	45:UK:79:ARG:HB3	2.42	0.55
40:6G:124:GLU:HA	40:6G:128:LYS:HB2	1.89	0.55
45:AC:209:ILE:HA	45:AC:212:ILE:HG12	1.87	0.55
45:AI:256:GLN:HB3	46:AL:397:TRP:CH2	2.41	0.55
46:AJ:31:ASP:OD1	46:AJ:35:THR:N	2.32	0.55
46:AJ:67:ASP:OD1	46:AJ:68:LEU:N	2.40	0.55
46:AN:217:LEU:HD11	46:AN:220:PRO:HB3	1.87	0.55
46:CB:68:LEU:HD12	46:CB:93:GLY:HA3	1.88	0.55
46:CF:109:GLY:O	46:CF:113:ILE:HG23	2.07	0.55
45:CG:208:ALA:HA	45:CG:304:LYS:HZ2	1.72	0.55
45:CK:258:ASN:HB3	45:CK:352:LYS:HD2	1.88	0.55
46:DD:99:ASN:ND2	45:DC:254:GLU:OE2	2.40	0.55
46:DF:153:SER:O	46:DF:157:GLU:HG2	2.07	0.55
46:DL:318:ARG:HB3	46:DL:357:PRO:HA	1.88	0.55
45:DM:174:SER:HB2	45:DM:177:VAL:O	2.06	0.55
46:EB:221:THR:HG23	46:EB:224:ASP:H	1.71	0.55
45:EC:33:ASP:HA	45:EC:85:GLN:HE21	1.71	0.55
46:ED:411:ALA:O	46:ED:415:MET:HE2	2.07	0.55
46:EH:238:CYS:SG	46:EH:239:CYS:N	2.80	0.55
45:EI:244:PHE:HB2	45:EI:356:ASN:HD21	1.71	0.55
45:EM:262:TYR:HB2	45:EM:265:ILE:HD12	1.89	0.55
46:FJ:167:PHE:CE1	46:FJ:233:MET:HG2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:387:VAL:HA	45:GA:390:ARG:HG2	1.87	0.55
46:GF:178:THR:HB	46:GF:181:GLU:HG3	1.89	0.55
45:GK:292:THR:HG21	45:GK:331:SER:HB3	1.88	0.55
45:HC:141:VAL:HG11	45:HC:172:TYR:CD1	2.42	0.55
45:HE:326:LYS:HZ1	46:HH:219:THR:HA	1.71	0.55
45:HE:326:LYS:HD3	46:HH:220:PRO:HD2	1.89	0.55
45:JA:133:GLN:HB3	45:JA:252:ILE:HG21	1.89	0.55
46:JF:114:ASP:OD1	46:JF:115:SER:N	2.39	0.55
46:JF:128:ASP:OD1	46:JF:129:CYS:N	2.39	0.55
45:JG:155:GLU:HA	45:JG:197:HIS:CE1	2.41	0.55
45:JG:297:GLU:OE1	45:JG:298:PRO:HD2	2.06	0.55
45:JG:394:LYS:HG3	46:JH:346:PRO:HG3	1.88	0.55
46:JH:67:ASP:OD2	46:JH:68:LEU:N	2.40	0.55
46:JH:313:ALA:HB3	46:JH:349:ILE:HG22	1.89	0.55
46:JN:171:PRO:HB3	46:JN:181:GLU:HG2	1.88	0.55
45:KC:320:ARG:HD3	45:KC:360:PRO:HG3	1.88	0.55
46:KD:207:LEU:HB3	46:KD:225:LEU:HD22	1.89	0.55
46:LB:107:THR:HG23	46:LB:108:GLU:OE1	2.06	0.55
46:LB:132:GLY:HA3	46:LB:163:ILE:HG22	1.88	0.55
46:LB:293:MET:CE	46:LB:367:PHE:HB2	2.37	0.55
46:LN:313:ALA:HB3	46:LN:349:ILE:HG13	1.89	0.55
46:MF:8:GLN:OE1	46:MF:17:GLY:HA3	2.07	0.55
45:MG:68:LEU:HD11	45:MG:118:CYS:SG	2.47	0.55
45:MI:211:ASP:O	45:MI:215:ARG:HG2	2.07	0.55
46:MJ:293:MET:HE3	46:MJ:367:PHE:HB2	1.88	0.55
46:ND:285:THR:N	46:ND:288:GLU:OE2	2.39	0.55
46:NL:236:VAL:HG13	46:NL:237:THR:HG23	1.88	0.55
46:QF:31:ASP:OD2	46:QF:37:HIS:ND1	2.40	0.55
46:QL:12:CYS:O	46:QL:16:ILE:HD12	2.06	0.55
46:QL:266:PHE:CZ	46:QL:370:ASN:HB2	2.42	0.55
45:QM:109:THR:O	45:QM:112:LYS:NZ	2.39	0.55
45:RI:171:ILE:O	45:RI:171:ILE:HG13	2.06	0.55
45:RK:265:ILE:HG22	45:RK:380:ASN:HD21	1.70	0.55
45:SA:284:GLU:HG3	45:SA:286:LEU:HD22	1.88	0.55
46:SD:91:VAL:HG11	46:SD:116:VAL:HB	1.88	0.55
46:SD:210:ILE:O	46:SD:214:THR:OG1	2.20	0.55
45:SK:329:ASN:HA	45:SK:332:ILE:HG12	1.89	0.55
46:SL:192:LEU:HD21	46:SL:199:CYS:SG	2.47	0.55
46:TB:145:SER:HB2	46:TB:188:SER:HB3	1.89	0.55
45:TI:60:LYS:NZ	45:UI:282:TYR:HD1	2.04	0.55
45:TI:244:PHE:HB2	45:TI:356:ASN:HD21	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TJ:255:VAL:HA	45:TK:407:TRP:CZ3	2.42	0.55
45:TK:81:GLY:O	45:TK:84:ARG:HD3	2.05	0.55
46:TL:272:PRO:O	46:TL:273:LEU:HD23	2.07	0.55
45:TM:176:GLN:NE2	45:TM:207:GLU:OE2	2.40	0.55
46:UD:73:MET:HA	46:UD:76:VAL:HG12	1.88	0.55
46:UD:345:ILE:HA	45:UE:398:MET:HE1	1.89	0.55
46:UL:7:ILE:HG13	46:UL:64:ILE:HB	1.88	0.55
46:UN:276:ARG:NH2	46:UN:277:GLY:HA2	2.21	0.55
46:VD:72:THR:O	46:VD:75:SER:OG	2.22	0.55
45:VE:372:MET:HG2	45:VE:373:ARG:HG3	1.87	0.55
46:VN:209:ASP:OD1	46:VN:213:ARG:NE	2.24	0.55
45:WC:254:GLU:HG2	46:WF:98:GLY:HA2	1.89	0.55
45:WC:260:VAL:HB	46:WF:397:TRP:HZ2	1.70	0.55
45:WE:326:LYS:HG3	46:WH:220:PRO:HG2	1.88	0.55
45:WK:398:MET:HE1	46:WL:345:ILE:HA	1.89	0.55
9:1N:1:MET:HB3	45:II:96:LYS:NZ	2.20	0.55
23:1O:189:ILE:HA	46:UD:276:ARG:NH2	2.22	0.55
15:1X:78:ASN:ND2	46:MF:280:GLN:HG3	2.20	0.55
31:2I:80:TYR:CE2	45:FE:119:LEU:HB3	2.41	0.55
27:3C:225:THR:N	45:KA:220:GLU:OE2	2.40	0.55
15:4X:98:ALA:O	15:4X:102:GLU:HG2	2.07	0.55
37:5F:27:ARG:HH22	45:OC:221:ARG:HH21	1.55	0.55
34:5R:184:ASP:O	34:5R:187:THR:OG1	2.24	0.55
34:5R:528:ILE:O	34:5R:531:THR:OG1	2.19	0.55
40:6G:234:PRO:HG3	45:VC:215:ARG:NH1	2.21	0.55
45:AA:161:TYR:HB3	45:AA:164:LYS:HE2	1.87	0.55
46:AB:45:GLU:OE1	46:AB:45:GLU:N	2.38	0.55
46:AD:232:ALA:HB1	46:AD:268:ILE:HD12	1.88	0.55
46:AJ:173:PRO:HG2	46:AJ:380:ARG:HE	1.71	0.55
46:AJ:222:TYR:HD2	49:AJ:501:GDP:C6	2.25	0.55
45:AM:141:VAL:HG11	45:AM:172:TYR:CD1	2.41	0.55
45:BA:88:HIS:O	45:BA:91:GLN:HG2	2.06	0.55
45:BA:258:ASN:ND2	45:BA:352:LYS:HD3	2.22	0.55
46:BJ:362:LYS:HG3	46:BJ:363:MET:SD	2.47	0.55
45:BK:88:HIS:O	45:BK:91:GLN:HG2	2.07	0.55
46:CL:257:LEU:HD21	46:CL:314:SER:HB3	1.87	0.55
45:CM:426:ALA:HB1	45:CM:430:LYS:NZ	2.22	0.55
46:CN:135:ILE:HG13	46:CN:152:ILE:HD11	1.89	0.55
46:DD:398:TYR:O	46:DD:403:MET:HB3	2.07	0.55
46:DL:318:ARG:HB2	46:DL:364:ALA:HB3	1.89	0.55
46:FB:287:PRO:O	46:FB:290:THR:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FI:419:SER:O	45:FI:423:GLU:HG2	2.06	0.55
45:FK:47:ASP:OD1	45:FK:48:ALA:N	2.37	0.55
46:GB:58:ARG:HH21	46:HB:281:TYR:HA	1.71	0.55
46:GB:268:ILE:HG22	46:GB:368:VAL:HG13	1.89	0.55
45:GC:226:ASN:O	45:GC:230:LEU:HG	2.07	0.55
46:GD:204:ASN:O	46:GD:208:TYR:HD2	1.89	0.55
46:GL:25:SER:OG	46:GL:51:TYR:OH	2.25	0.55
45:HK:147:SER:HB2	45:HK:190:SER:OG	2.07	0.55
45:IA:123:ARG:NH2	45:IA:127:ASP:OD1	2.39	0.55
46:ID:68:LEU:HD12	46:ID:93:GLY:HA3	1.88	0.55
46:IH:44:LEU:HA	46:IH:47:ILE:HG23	1.88	0.55
46:IN:200:MET:SD	46:IN:266:PHE:HB2	2.47	0.55
46:JB:139:LEU:HD12	46:JB:170:VAL:HG12	1.88	0.55
46:JF:372:THR:HA	46:JF:422:TYR:HE2	1.72	0.55
45:JG:268:MET:HG2	45:JG:380:ASN:HB2	1.89	0.55
46:JH:86:ARG:NH1	46:KH:281:TYR:O	2.40	0.55
45:KI:69:ASP:HB3	45:KI:75:ILE:HD11	1.89	0.55
46:KL:398:TYR:HD2	46:KL:408:PHE:HZ	1.55	0.55
46:LD:63:ALA:O	46:LD:89:ASN:ND2	2.39	0.55
46:LN:86:ARG:HE	46:LN:87:PRO:HD2	1.70	0.55
45:ME:248:LEU:HB3	45:ME:355:ILE:HG22	1.88	0.55
46:MN:248:SER:HA	46:MN:252:LYS:HG3	1.88	0.55
46:NB:67:ASP:O	46:NB:92:PHE:HA	2.05	0.55
45:NG:109:THR:HG22	45:NG:110:ILE:HG23	1.88	0.55
45:NG:177:VAL:HB	46:NH:327:ASP:OD2	2.07	0.55
46:NJ:97:ALA:HA	46:NJ:103:LYS:HD2	1.88	0.55
45:NM:105:ARG:HG2	45:NM:411:GLU:OE1	2.07	0.55
45:NM:216:ASN:HD22	45:NM:275:ILE:HB	1.72	0.55
45:OC:104:ALA:HB2	45:OC:413:MET:HB2	1.87	0.55
46:OL:180:VAL:O	46:OL:180:VAL:HG12	2.07	0.55
46:PB:31:ASP:OD2	46:PB:37:HIS:ND1	2.40	0.55
45:PG:265:ILE:HG12	45:PG:432:TYR:HE1	1.72	0.55
45:PG:318:MET:HB3	45:PG:376:CYS:SG	2.47	0.55
45:QG:209:ILE:HG23	45:QG:227:LEU:HD22	1.89	0.55
46:QL:7:ILE:HG13	46:QL:135:ILE:HG13	1.89	0.55
46:QL:107:THR:OG1	46:QL:401:GLU:OE2	2.18	0.55
45:QM:231:ILE:O	45:QM:235:ILE:HG12	2.06	0.55
45:RC:346:TRP:CD1	46:RD:391:ARG:HG3	2.42	0.55
46:RJ:221:THR:HG23	46:RJ:224:ASP:H	1.72	0.55
45:SA:212:ILE:HD13	45:SA:215:ARG:HH21	1.72	0.55
46:SB:21:TRP:CZ3	46:SB:61:PRO:HB3	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:304:ASP:OD2	46:SB:306:ARG:NH1	2.39	0.55
46:SH:286:VAL:HG23	46:SH:287:PRO:HD3	1.89	0.55
46:SH:394:PHE:HA	46:SH:397:TRP:HZ3	1.72	0.55
45:SI:284:GLU:HG3	45:SI:286:LEU:HD22	1.89	0.55
45:SK:118:CYS:O	45:SK:122:ILE:HG12	2.06	0.55
45:SM:277:SER:OG	45:SM:280:LYS:NZ	2.38	0.55
46:TF:117:LEU:HB3	46:TF:121:ARG:NH2	2.22	0.55
45:TG:239:THR:HG23	45:TG:243:ARG:HH12	1.71	0.55
46:TJ:86:ARG:HD2	46:TJ:87:PRO:HD2	1.88	0.55
45:TK:141:VAL:HG11	45:TK:172:TYR:HD1	1.72	0.55
46:TL:313:ALA:HB1	46:TL:367:PHE:HE1	1.72	0.55
45:UA:288:VAL:HA	45:UA:291:ILE:HG12	1.89	0.55
46:UB:214:THR:HG23	46:UB:297:LYS:NZ	2.22	0.55
46:UB:375:GLN:HE21	46:UB:423:GLN:HG2	1.70	0.55
46:UF:49:VAL:HG21	46:UF:241:ARG:HG2	1.89	0.55
45:VE:141:VAL:HG11	45:VE:172:TYR:CD1	2.41	0.55
45:VK:118:CYS:O	45:VK:122:ILE:HG12	2.07	0.55
46:WB:237:THR:HG23	46:WB:241:ARG:HE	1.72	0.55
45:WE:244:PHE:HB2	45:WE:356:ASN:HD21	1.71	0.55
46:WJ:309:ARG:NH2	46:WJ:426:GLN:O	2.28	0.55
13:1U:447:GLU:HG2	45:WE:279:GLU:HB3	1.89	0.55
25:3R:112:GLU:OE1	46:BN:362:LYS:HG2	2.07	0.55
37:5H:27:ARG:NH1	45:OK:221:ARG:HH12	2.05	0.55
10:5Q:15:TYR:CE2	10:5Q:17:ILE:HB	2.42	0.55
10:5Q:73:LEU:HD22	10:5Q:169:ASP:HB2	1.89	0.55
34:5R:487:GLU:HB3	34:5R:523:PHE:HZ	1.70	0.55
34:6R:444:ILE:HD11	34:6R:503:PHE:HD2	1.72	0.55
45:AC:55:GLU:HG3	45:AC:57:GLY:H	1.71	0.55
45:BG:70:LEU:HD12	45:BG:145:THR:HG22	1.89	0.55
46:CB:289:LEU:HD13	46:CB:365:VAL:HG23	1.89	0.55
46:CH:45:GLU:OE1	46:CH:46:ARG:HD3	2.07	0.55
45:CI:69:ASP:OD2	45:CI:71:GLU:HG2	2.07	0.55
46:CJ:99:ASN:HA	46:CJ:142:GLY:H	1.71	0.55
46:CJ:140:GLY:HA2	46:CJ:181:GLU:OE2	2.07	0.55
46:CL:287:PRO:O	46:CL:290:THR:HG22	2.07	0.55
46:CL:314:SER:HA	46:CL:350:LYS:HB3	1.89	0.55
45:DA:108:TYR:HA	45:DA:112:LYS:HE3	1.88	0.55
45:DG:123:ARG:NH1	45:DG:161:TYR:OH	2.38	0.55
46:DH:167:PHE:HD2	46:DH:202:ILE:HD11	1.72	0.55
46:DH:210:ILE:HD11	46:DH:299:MET:O	2.07	0.55
46:DJ:6:HIS:O	46:DJ:63:ALA:HA	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:257:LEU:HD11	46:DN:314:SER:HB2	1.89	0.55
46:FN:387:ALA:O	46:FN:390:ARG:NH1	2.40	0.55
46:GD:5:VAL:HG12	46:GD:62:ARG:HD3	1.89	0.55
46:GL:293:MET:HG3	46:GL:294:PHE:HD1	1.71	0.55
45:HA:116:ASP:OD1	45:HA:117:LEU:N	2.39	0.55
46:HF:222:TYR:O	46:HF:226:ASN:ND2	2.24	0.55
46:HJ:226:ASN:ND2	49:HJ:501:GDP:HN1	1.99	0.55
46:IB:143:THR:O	46:IB:147:MET:HE3	2.06	0.55
46:ID:67:ASP:O	46:ID:92:PHE:HA	2.07	0.55
45:IG:140:SER:OG	47:IG:501:GTP:O2B	2.24	0.55
45:IK:387:VAL:HA	45:IK:390:ARG:HG2	1.89	0.55
46:JF:211:CYS:HB3	46:JF:217:LEU:HD21	1.89	0.55
45:JG:311:LYS:HE3	45:JG:342:GLN:HG3	1.89	0.55
45:JI:180:ALA:HA	46:JJ:350:LYS:HZ3	1.72	0.55
45:JK:127:ASP:OD1	45:JK:128:ASN:N	2.39	0.55
45:KA:46:ASP:O	45:KA:48:ALA:N	2.40	0.55
45:KA:55:GLU:O	45:LA:285:GLN:NE2	2.35	0.55
45:KC:103:PHE:HB2	45:KC:186:ASN:HB3	1.88	0.55
45:KM:301:MET:HG3	45:KM:303:ALA:H	1.71	0.55
45:LI:210:TYR:HE1	45:LI:227:LEU:HD11	1.71	0.55
46:LJ:334:GLN:NE2	46:LJ:348:ASN:OD1	2.39	0.55
46:ML:102:ALA:HB2	46:ML:398:TYR:HD1	1.70	0.55
46:ML:295:ASP:OD2	46:ML:297:LYS:HG2	2.06	0.55
46:NF:67:ASP:OD2	46:NF:68:LEU:N	2.40	0.55
46:OB:139:LEU:HD13	46:OB:168:SER:HB3	1.89	0.55
45:OI:147:SER:HB2	45:OI:190:SER:HB2	1.88	0.55
45:PC:100:ALA:HA	46:PD:252:LYS:HG2	1.89	0.55
46:PL:389:PHE:HD2	46:PL:390:ARG:HH22	1.55	0.55
45:PM:96:LYS:HZ1	46:PN:129:CYS:HB3	1.71	0.55
46:QD:32:PRO:O	46:QD:83:GLN:NE2	2.39	0.55
46:QD:256:ASN:HD21	45:QE:181:VAL:H	1.55	0.55
46:QF:254:ALA:O	46:QF:258:ILE:HG12	2.07	0.55
45:RA:288:VAL:HG11	45:RA:327:ASP:HB3	1.88	0.55
45:RC:223:THR:HG23	45:RC:225:THR:H	1.72	0.55
46:RH:262:ARG:NH1	46:RH:421:GLU:OE1	2.39	0.55
46:SF:293:MET:CE	46:SF:367:PHE:HB3	2.37	0.55
46:SJ:200:MET:HE1	46:SJ:268:ILE:N	2.22	0.55
45:SM:136:LEU:HD22	45:SM:169:PHE:HE2	1.70	0.55
45:TA:274:PRO:HG2	45:TA:371:VAL:HG11	1.89	0.55
46:TF:156:ARG:HH12	46:TF:160:PRO:HA	1.72	0.55
46:TH:319:GLY:HA3	46:TH:362:LYS:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TJ:86:ARG:HE	46:UJ:282:ARG:NH1	2.04	0.55
46:TJ:330:MET:SD	46:TJ:349:ILE:HG21	2.47	0.55
46:TJ:372:THR:HA	46:TJ:422:TYR:CE2	2.42	0.55
46:TL:275:SER:O	46:TL:279:GLN:N	2.40	0.55
45:TM:192:HIS:CD2	45:TM:421:ALA:HA	2.42	0.55
45:UA:328:VAL:HG11	45:UA:353:VAL:HG21	1.89	0.55
46:UD:189:VAL:HA	46:UD:192:LEU:HB2	1.87	0.55
45:UE:2:ARG:HA	45:UE:133:GLN:HE22	1.71	0.55
46:UH:276:ARG:NH1	46:UH:276:ARG:O	2.39	0.55
46:UJ:273:LEU:N	46:UJ:292:GLN:OE1	2.38	0.55
46:UN:66:MET:HG2	46:UN:116:VAL:HG21	1.89	0.55
46:VL:173:PRO:HA	46:VL:176:SER:HB3	1.89	0.55
46:WD:99:ASN:HA	46:WD:142:GLY:H	1.72	0.55
46:WD:286:VAL:C	46:WD:329:GLN:HE22	2.10	0.55
45:WI:224:TYR:HD1	45:WI:227:LEU:HD12	1.72	0.55
15:0X:3:ARG:HD2	46:MD:15:GLN:NE2	2.21	0.55
7:1G:178:LYS:HE2	45:LA:329:ASN:HB2	1.88	0.55
19:1J:56:PRO:HA	45:IC:221:ARG:HB2	1.89	0.55
23:1O:267:ALA:HB3	45:UA:281:ALA:HB3	1.88	0.55
14:1V:113:ARG:HE	45:LI:196:GLU:HA	1.69	0.55
26:1W:68:LEU:HD12	15:4X:138:LYS:HG2	1.87	0.55
37:5F:123:ARG:HG3	45:OE:372:MET:SD	2.47	0.55
37:5F:184:GLN:O	37:5F:188:GLN:HB2	2.07	0.55
34:5R:574:ARG:HA	34:5R:574:ARG:NH1	2.21	0.55
45:AA:118:CYS:O	45:AA:122:ILE:HG12	2.07	0.55
46:AD:376:GLU:OE1	46:AD:380:ARG:NH2	2.40	0.55
45:AE:11:GLN:HG3	45:AE:74:VAL:HG11	1.89	0.55
46:BD:87:PRO:HD2	46:CB:281:TYR:HD1	1.72	0.55
45:BK:387:VAL:HA	45:BK:390:ARG:HG2	1.90	0.55
45:BM:207:GLU:HA	45:BM:210:TYR:HB2	1.88	0.55
46:BN:235:GLY:HA2	46:BN:318:ARG:HH21	1.72	0.55
45:CI:275:ILE:O	45:CI:276:ILE:HD13	2.07	0.55
46:CN:42:LEU:HA	46:CN:45:GLU:HG3	1.89	0.55
46:DD:257:LEU:HD11	46:DD:314:SER:HB2	1.89	0.55
46:DD:288:GLU:N	46:DD:288:GLU:OE2	2.40	0.55
45:DE:439:THR:HB	46:DF:390:ARG:NH1	2.22	0.55
46:DF:324:LYS:HE3	45:DG:222:PRO:HG2	1.88	0.55
46:DF:392:LYS:HG3	46:DF:395:LEU:HD13	1.89	0.55
45:DG:141:VAL:HG11	45:DG:172:TYR:HD1	1.72	0.55
45:EA:206:ASN:OD1	47:EA:501:GTP:N2	2.40	0.55
46:EF:150:LEU:HG	46:EF:154:LYS:NZ	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:260:PHE:HB2	46:EF:263:LEU:HD13	1.88	0.55
45:EM:11:GLN:HA	45:EM:14:ILE:HG22	1.88	0.55
46:EN:309:ARG:NH2	46:EN:426:GLN:O	2.37	0.55
46:FF:229:VAL:HG12	46:FF:233:MET:HE2	1.89	0.55
45:GA:238:LEU:HD12	45:GA:318:MET:HE1	1.89	0.55
45:GA:258:ASN:HA	46:GD:179:VAL:HG11	1.87	0.55
46:GD:299:MET:HG3	46:GD:301:CYS:H	1.72	0.55
45:GE:187:SER:O	45:GE:191:THR:HG23	2.07	0.55
46:GL:68:LEU:HB3	46:GL:96:GLY:HA2	1.88	0.55
45:HC:205:ASP:OD2	45:HC:303:ALA:HA	2.06	0.55
46:HF:1:MET:O	46:HF:2:ARG:HG2	2.07	0.55
45:HK:2:ARG:HG3	45:HK:133:GLN:NE2	2.22	0.55
46:HN:42:LEU:HD22	46:HN:356:ILE:HD11	1.89	0.55
46:HN:207:LEU:HD13	46:HN:225:LEU:HB3	1.89	0.55
46:IB:178:THR:HB	46:IB:181:GLU:HG3	1.89	0.55
46:ID:204:ASN:OD1	46:ID:205:GLU:N	2.40	0.55
45:IE:288:VAL:HG11	45:IE:327:ASP:HB3	1.88	0.55
45:IE:408:TYR:HD1	45:IE:418:PHE:HZ	1.55	0.55
45:II:180:ALA:HA	46:IJ:350:LYS:HZ1	1.70	0.55
46:JJ:326:VAL:O	46:JJ:330:MET:HG2	2.06	0.55
46:JN:222:TYR:HA	46:JN:225:LEU:HD12	1.88	0.55
46:KD:318:ARG:HB2	46:KD:364:ALA:HB3	1.89	0.55
45:KE:98:ASP:OD2	45:KE:99:ALA:N	2.39	0.55
46:KH:386:THR:O	46:KH:390:ARG:HG2	2.07	0.55
45:LC:221:ARG:NH1	46:LD:322:SER:H	2.05	0.55
45:LC:301:MET:HE3	45:LC:301:MET:HA	1.89	0.55
46:LH:286:VAL:HG21	46:LH:325:GLU:HB3	1.88	0.55
46:LJ:8:GLN:HE22	46:LJ:17:GLY:HA3	1.71	0.55
45:LK:60:LYS:NZ	45:LK:85:GLN:O	2.25	0.55
45:LM:69:ASP:O	45:LM:94:SER:HA	2.06	0.55
46:MB:173:PRO:HG2	46:MB:380:ARG:HE	1.72	0.55
45:MC:288:VAL:HA	45:MC:291:ILE:HG12	1.89	0.55
45:ME:210:TYR:HB3	46:MF:324:LYS:NZ	2.22	0.55
46:MN:49:VAL:HG21	46:MN:241:ARG:HG2	1.89	0.55
45:NA:19:ALA:HA	45:NA:22:GLU:OE1	2.05	0.55
45:NC:54:SER:HB3	45:NC:64:ARG:HE	1.72	0.55
46:ND:150:LEU:HD23	46:ND:154:LYS:NZ	2.22	0.55
45:NE:120:ASP:O	45:NE:124:LYS:HG2	2.07	0.55
45:NM:317:MET:HE1	45:NM:377:MET:HA	1.89	0.55
46:OD:48:ASN:O	46:OD:62:ARG:NH1	2.40	0.55
45:OE:251:ASP:OD1	45:OE:252:ILE:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PB:178:THR:HB	46:PB:181:GLU:HG3	1.88	0.55
45:PE:229:ARG:HH12	45:PE:363:VAL:HG11	1.71	0.55
45:PG:128:ASN:ND2	45:QG:290:GLU:OE1	2.40	0.55
45:PM:90:GLU:HG3	45:PM:121:ARG:HH12	1.72	0.55
45:PM:210:TYR:CD2	46:PN:324:LYS:HG3	2.42	0.55
45:PM:230:LEU:HA	45:PM:233:GLN:NE2	2.22	0.55
45:QA:284:GLU:HG3	45:QA:286:LEU:HD22	1.89	0.55
45:QA:319:TYR:CE2	45:QA:328:VAL:HG22	2.42	0.55
46:QD:86:ARG:NH1	46:QD:88:ASP:HB3	2.21	0.55
46:QF:51:TYR:HB3	46:QF:59:TYR:HB3	1.88	0.55
46:QF:389:PHE:HZ	46:QF:405:GLU:HG3	1.72	0.55
46:QH:152:ILE:HG23	46:QH:164:MET:SD	2.47	0.55
46:QH:258:ILE:HD11	45:QI:407:TRP:HZ2	1.71	0.55
46:QL:31:ASP:OD2	46:QL:37:HIS:ND1	2.40	0.55
45:QM:284:GLU:HG3	45:QM:286:LEU:HD22	1.89	0.55
46:QN:166:THR:HG21	46:QN:192:LEU:HD11	1.89	0.55
46:SF:25:SER:HG	46:SF:51:TYR:HH	1.52	0.55
46:SH:1:MET:SD	46:SH:2:ARG:HG2	2.47	0.55
46:SN:262:ARG:NH1	46:SN:421:GLU:OE1	2.40	0.55
46:TB:241:ARG:NH1	46:TB:242:PHE:HD2	2.04	0.55
45:TC:33:ASP:HA	45:TC:85:GLN:HE21	1.70	0.55
46:TD:221:THR:HG23	46:TD:224:ASP:H	1.72	0.55
46:TF:358:PRO:HD2	46:TF:361:LEU:HD11	1.89	0.55
45:TG:174:SER:HB2	45:TG:177:VAL:HB	1.89	0.55
46:TL:103:LYS:HB2	46:TL:401:GLU:OE1	2.07	0.55
45:TM:69:ASP:OD1	45:TM:70:LEU:N	2.39	0.55
46:TN:229:VAL:HG12	46:TN:233:MET:HE2	1.89	0.55
46:UF:376:GLU:O	46:UF:380:ARG:HG2	2.06	0.55
46:VH:221:THR:HG23	46:VH:224:ASP:H	1.71	0.55
45:VK:70:LEU:HD13	45:VK:95:GLY:HA3	1.89	0.55
46:WL:226:ASN:HA	46:WL:229:VAL:HG12	1.89	0.55
46:WN:309:ARG:NH2	46:WN:426:GLN:O	2.32	0.55
4:0D:11:VAL:HG11	45:CC:79:ARG:HD3	1.89	0.54
6:0F:187:PRO:HA	45:EE:84:ARG:HD2	1.89	0.54
18:1I:27:TRP:CH2	45:IC:89:PRO:HB3	2.42	0.54
14:1V:221:LYS:NZ	46:VL:83:GLN:HG3	2.23	0.54
4:2D:82:TYR:HB3	46:EJ:40:SER:HB3	1.88	0.54
20:2K:401:LYS:HE3	46:FH:56:GLY:C	2.27	0.54
21:2L:900:HIS:HA	46:CJ:320:ARG:HH21	1.72	0.54
22:2M:67:TYR:CE1	46:IJ:80:PRO:HB3	2.42	0.54
25:2R:404:ARG:NH2	45:DG:57:GLY:O	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5A:172:LEU:HA	36:5A:175:LYS:HZ3	1.71	0.54
37:5G:168:LEU:HB3	37:5G:170:LYS:NZ	2.23	0.54
37:5H:26:GLY:HA2	45:OK:221:ARG:NH1	2.12	0.54
41:6H:251:ASP:H	46:FF:360:GLY:HA2	1.72	0.54
34:7R:219:LYS:NZ	46:BD:78:ALA:HB3	2.22	0.54
45:AE:46:ASP:OD1	45:AE:47:ASP:N	2.40	0.54
46:AH:252:LYS:HG2	46:AH:350:LYS:HE3	1.89	0.54
46:AJ:245:GLN:HE21	46:AJ:245:GLN:HA	1.73	0.54
46:AJ:294:PHE:CD2	46:AJ:333:VAL:HG21	2.40	0.54
45:BI:98:ASP:O	45:BI:105:ARG:NH2	2.32	0.54
45:BI:345:ASP:OD1	45:BI:346:TRP:N	2.40	0.54
46:BN:139:LEU:HD13	46:BN:168:SER:HB3	1.88	0.54
46:CD:6:HIS:O	46:CD:63:ALA:HA	2.06	0.54
45:CM:310:GLY:HA3	45:CM:383:ALA:HB2	1.89	0.54
46:DB:68:LEU:HD12	46:DB:93:GLY:HA3	1.88	0.54
46:DB:167:PHE:HE1	46:DB:233:MET:HG3	1.72	0.54
45:DE:36:MET:SD	45:DE:37:PRO:HD2	2.47	0.54
46:DF:238:CYS:SG	46:DF:239:CYS:N	2.80	0.54
45:DI:326:LYS:HZ3	46:DJ:219:THR:HA	1.73	0.54
46:DJ:286:VAL:C	46:DJ:329:GLN:HE22	2.09	0.54
45:DK:50:ASN:O	45:DK:64:ARG:NH2	2.40	0.54
46:DL:149:THR:HA	46:DL:152:ILE:HD12	1.88	0.54
46:EB:73:MET:HA	46:EB:76:VAL:HG12	1.88	0.54
45:EE:253:THR:HA	45:EE:256:GLN:NE2	2.22	0.54
46:EJ:407:GLU:N	46:EJ:407:GLU:OE2	2.37	0.54
45:FE:55:GLU:HG3	45:FE:57:GLY:H	1.72	0.54
45:FG:387:VAL:HA	45:FG:390:ARG:HG2	1.88	0.54
46:FH:72:THR:HG23	46:FH:73:MET:HE2	1.89	0.54
45:FI:346:TRP:CD1	46:FL:391:ARG:HG3	2.42	0.54
45:FK:74:VAL:O	45:FK:77:GLU:HG2	2.07	0.54
45:FK:77:GLU:HA	45:FK:80:THR:HG22	1.89	0.54
45:GM:135:PHE:HB2	45:GM:166:LYS:HG2	1.89	0.54
46:GN:207:LEU:HB3	46:GN:225:LEU:HD22	1.89	0.54
46:GN:262:ARG:NH1	46:GN:421:GLU:OE1	2.39	0.54
45:HI:204:LEU:HD13	45:HI:231:ILE:HD12	1.89	0.54
45:IA:27:GLU:HG2	45:IA:361:THR:HG21	1.89	0.54
46:IB:279:GLN:NE2	46:IB:280:GLN:HG2	2.22	0.54
45:IE:8:HIS:HB2	45:IE:67:PHE:HD2	1.71	0.54
45:IE:101:ASN:HA	45:IE:144:GLY:H	1.71	0.54
45:IG:398:MET:HE3	46:IH:346:PRO:HD2	1.89	0.54
45:II:301:MET:HA	45:II:301:MET:HE2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IM:296:PHE:HE2	45:IM:335:ILE:HG13	1.71	0.54
45:JA:7:ILE:HB	45:JA:137:VAL:HG12	1.89	0.54
45:JI:80:THR:O	45:JI:84:ARG:NH2	2.40	0.54
45:JK:133:GLN:HB3	45:JK:252:ILE:HD11	1.89	0.54
46:KF:222:TYR:O	46:KF:226:ASN:ND2	2.40	0.54
46:KH:211:CYS:SG	46:KH:220:PRO:HB3	2.48	0.54
45:KK:263:PRO:HD3	46:KN:396:HIS:CG	2.41	0.54
46:LD:262:ARG:NH2	46:LD:421:GLU:OE1	2.40	0.54
45:MA:118:CYS:O	45:MA:122:ILE:HG12	2.06	0.54
46:MB:316:LEU:HD13	46:MB:352:SER:HB2	1.88	0.54
46:MD:318:ARG:O	46:MD:363:MET:HA	2.07	0.54
45:MK:69:ASP:OD1	45:MK:70:LEU:N	2.39	0.54
46:NB:32:PRO:HA	46:NB:84:LEU:HD21	1.89	0.54
46:NB:48:ASN:O	46:NB:62:ARG:NH2	2.24	0.54
46:NF:318:ARG:HB3	46:NF:357:PRO:HA	1.88	0.54
45:NK:17:GLY:HA2	45:NK:20:CYS:SG	2.47	0.54
45:NM:328:VAL:HG11	45:NM:353:VAL:HG21	1.89	0.54
45:OC:231:ILE:O	45:OC:235:ILE:HG12	2.06	0.54
46:OD:105:HIS:CE1	46:OD:150:LEU:HD12	2.41	0.54
45:OM:206:ASN:OD1	45:OM:207:GLU:N	2.40	0.54
45:PC:263:PRO:HD3	46:PF:396:HIS:CE1	2.41	0.54
46:PD:273:LEU:N	46:PD:292:GLN:HE22	2.03	0.54
45:PE:171:ILE:O	45:PE:171:ILE:HG13	2.06	0.54
46:PH:189:VAL:HA	46:PH:192:LEU:HB2	1.88	0.54
46:PN:52:ASN:OD1	46:PN:62:ARG:NH2	2.40	0.54
46:QB:66:MET:SD	46:QB:116:VAL:HG21	2.46	0.54
46:QD:55:THR:HG23	46:RD:283:ALA:HA	1.88	0.54
45:QE:399:TYR:O	45:QE:402:ARG:NH1	2.40	0.54
46:QF:58:ARG:NH1	46:RF:280:GLN:OE1	2.41	0.54
46:QH:2:ARG:NH1	45:QI:97:GLU:HA	2.19	0.54
45:QI:55:GLU:O	45:RI:285:GLN:NE2	2.32	0.54
45:QK:174:SER:OG	45:QK:207:GLU:OE1	2.24	0.54
46:RJ:251:ARG:HH21	45:RK:105:ARG:HH12	1.54	0.54
46:RJ:260:PHE:HB2	46:RJ:263:LEU:HD13	1.89	0.54
45:SA:242:LEU:HD11	45:SA:252:ILE:HG13	1.88	0.54
46:SD:190:HIS:CE1	46:SD:414:ASN:HD22	2.25	0.54
46:SF:282:ARG:NH1	46:SF:283:ALA:H	2.05	0.54
45:SK:98:ASP:OD1	45:SK:99:ALA:N	2.39	0.54
45:TK:102:ASN:ND2	45:TK:105:ARG:HG3	2.21	0.54
46:TL:375:GLN:O	46:TL:379:LYS:HG2	2.07	0.54
46:TN:289:LEU:HD13	46:TN:365:VAL:HG23	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UB:252:LYS:HA	45:UC:100:ALA:HB1	1.89	0.54
46:UB:324:LYS:O	46:UB:328:GLU:OE1	2.25	0.54
46:UF:67:ASP:O	46:UF:92:PHE:HA	2.06	0.54
45:UG:319:TYR:HB3	45:UG:323:VAL:HG11	1.89	0.54
46:UN:178:THR:HG22	46:UN:180:VAL:H	1.71	0.54
46:VD:86:ARG:NH2	46:VD:89:ASN:OD1	2.40	0.54
46:VH:139:LEU:HD12	46:VH:188:SER:OG	2.07	0.54
45:VI:31:GLN:OE1	45:VI:31:GLN:N	2.40	0.54
45:WA:101:ASN:HB2	46:WB:256:ASN:HD21	1.72	0.54
46:WB:344:TRP:HB3	46:WB:430:ALA:HB2	1.89	0.54
45:WE:111:GLY:O	45:WE:115:VAL:HG13	2.07	0.54
45:WG:36:MET:HE1	45:WG:40:LYS:HE3	1.89	0.54
45:WG:337:THR:O	45:WG:339:ARG:NH1	2.40	0.54
45:WI:259:LEU:HD21	45:WI:316:SER:HB3	1.89	0.54
11:1S:46:TRP:CZ3	45:WC:89:PRO:HD3	2.41	0.54
21:2L:408:LEU:HD11	46:CN:362:LYS:HE3	1.89	0.54
36:5A:22:TYR:CD1	36:5A:61:SER:HA	2.42	0.54
40:6G:206:LYS:NZ	40:6G:207:TYR:O	2.39	0.54
40:6G:284:LYS:O	40:6G:288:LYS:HG2	2.08	0.54
45:AK:328:VAL:O	45:AK:332:ILE:HG12	2.07	0.54
46:BD:290:THR:HA	46:BD:293:MET:HG2	1.90	0.54
46:BH:158:GLU:HG3	46:BH:159:TYR:CD1	2.42	0.54
45:BK:326:LYS:NZ	46:BN:208:TYR:HB3	2.22	0.54
45:BK:328:VAL:O	45:BK:332:ILE:HG12	2.07	0.54
45:BM:226:ASN:HA	45:BM:229:ARG:HD2	1.89	0.54
46:BN:208:TYR:HE2	46:BN:225:LEU:HD11	1.72	0.54
46:CD:293:MET:HE2	46:CD:367:PHE:HB2	1.89	0.54
45:CG:8:HIS:CD2	45:CG:138:PHE:HD1	2.24	0.54
45:CI:167:LEU:HD13	45:CI:200:VAL:HB	1.90	0.54
45:CM:212:ILE:HD13	45:CM:215:ARG:HH22	1.72	0.54
45:CM:268:MET:HB3	45:CM:378:ILE:HD11	1.89	0.54
46:DF:58:ARG:NH1	46:EF:280:GLN:OE1	2.40	0.54
45:DI:69:ASP:HB3	45:DI:75:ILE:HD11	1.89	0.54
46:DL:156:ARG:NH1	46:DL:162:ARG:O	2.40	0.54
46:ED:212:PHE:HB3	46:ED:213:ARG:HH21	1.72	0.54
45:EE:319:TYR:CE2	45:EE:328:VAL:HG22	2.42	0.54
46:EF:244:GLY:HA3	46:EF:354:CYS:HA	1.88	0.54
46:EH:3:GLU:HG3	46:EH:62:ARG:NH1	2.22	0.54
46:EH:324:LYS:O	46:EH:328:GLU:HG2	2.08	0.54
45:EM:256:GLN:HE21	46:EN:397:TRP:HZ2	1.55	0.54
46:FJ:273:LEU:H	46:FJ:292:GLN:HE22	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FL:73:MET:HA	46:FL:76:VAL:HG12	1.89	0.54
45:FM:3:GLU:O	45:FM:133:GLN:N	2.34	0.54
45:GE:222:PRO:HD2	46:GF:324:LYS:HZ3	1.72	0.54
46:GN:42:LEU:HA	46:GN:45:GLU:HG3	1.89	0.54
46:HH:417:ASP:O	46:HH:421:GLU:HG3	2.07	0.54
46:ID:73:MET:HG2	46:ID:90:PHE:HD1	1.71	0.54
46:JH:5:VAL:HG12	46:JH:62:ARG:HD3	1.88	0.54
46:JL:313:ALA:HB1	46:JL:367:PHE:HE1	1.73	0.54
46:JN:268:ILE:HG22	46:JN:368:VAL:HG22	1.89	0.54
46:KB:375:GLN:HA	46:KB:378:PHE:HD2	1.72	0.54
46:KF:62:ARG:HB2	46:KF:123:GLU:OE1	2.07	0.54
46:KF:294:PHE:HD2	46:KF:333:VAL:HG21	1.71	0.54
45:KK:265:ILE:HG22	45:KK:432:TYR:HE1	1.72	0.54
46:LF:10:GLY:O	46:LF:14:ASN:ND2	2.39	0.54
46:LN:372:THR:HA	46:LN:422:TYR:HE2	1.71	0.54
45:MA:221:ARG:NH2	46:MB:322:SER:OG	2.39	0.54
45:NG:123:ARG:NH2	45:OG:293:ASN:OD1	2.40	0.54
45:NM:72:PRO:HD2	46:NN:2:ARG:NH2	2.21	0.54
45:NM:121:ARG:HH11	45:NM:121:ARG:HA	1.72	0.54
45:OA:352:LYS:HA	46:OD:177:ASP:O	2.07	0.54
45:OC:108:TYR:O	45:OC:112:LYS:NZ	2.33	0.54
45:OC:326:LYS:HE2	46:OF:220:PRO:HB2	1.89	0.54
46:OD:178:THR:O	46:OD:181:GLU:HG2	2.08	0.54
46:OF:316:LEU:HD13	46:OF:352:SER:HB2	1.87	0.54
45:OK:231:ILE:O	45:OK:235:ILE:HG12	2.07	0.54
46:ON:87:PRO:HG2	46:PN:278:SER:HB3	1.88	0.54
45:PE:50:ASN:O	45:PE:64:ARG:NH1	2.29	0.54
46:PF:153:SER:HB3	46:PF:154:LYS:NZ	2.22	0.54
45:PI:328:VAL:O	45:PI:332:ILE:HG12	2.06	0.54
46:PJ:201:VAL:HG13	46:PJ:301:CYS:SG	2.48	0.54
46:PJ:294:PHE:CD2	46:PJ:333:VAL:HG21	2.42	0.54
46:QF:347:ASN:ND2	45:QG:178:SER:OG	2.26	0.54
45:QK:195:LEU:HD21	45:QK:428:LEU:HD21	1.89	0.54
45:QK:204:LEU:HD23	45:QK:231:ILE:HG12	1.88	0.54
45:QK:349:THR:HG23	46:QL:179:VAL:HA	1.90	0.54
45:RC:408:TYR:HB3	45:RC:413:MET:SD	2.47	0.54
46:RD:178:THR:HB	46:RD:181:GLU:HG3	1.87	0.54
46:RD:358:PRO:HB2	46:RD:361:LEU:HD13	1.88	0.54
45:RE:8:HIS:CD2	45:RE:138:PHE:HD2	2.25	0.54
46:RL:169:VAL:HG12	46:RL:202:ILE:HG13	1.89	0.54
46:SF:67:ASP:O	46:SF:92:PHE:HA	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SH:58:ARG:HD2	46:TH:280:GLN:HE22	1.72	0.54
46:SL:8:GLN:HE21	46:SL:65:LEU:HG	1.72	0.54
46:SL:9:GLY:HA2	46:SL:66:MET:HB2	1.88	0.54
45:SM:136:LEU:HD23	45:SM:167:LEU:HB2	1.90	0.54
46:TB:28:HIS:HD1	46:TB:51:TYR:HE2	1.55	0.54
46:UF:113:ILE:HG21	46:UF:150:LEU:HD22	1.88	0.54
46:UF:174:LYS:HB2	46:UF:205:GLU:HG2	1.89	0.54
45:VA:121:ARG:HA	45:VA:124:LYS:HZ2	1.72	0.54
46:VB:86:ARG:HH11	46:VB:88:ASP:HB3	1.71	0.54
45:VE:210:TYR:CD1	46:VF:324:LYS:HE3	2.42	0.54
45:VE:222:PRO:HG2	46:VF:324:LYS:HG2	1.88	0.54
46:VF:67:ASP:O	46:VF:92:PHE:HA	2.07	0.54
45:VG:21:TRP:CZ2	45:VG:65:ALA:HB2	2.42	0.54
45:VI:2:ARG:HH22	46:VL:70:PRO:HD2	1.72	0.54
45:VK:104:ALA:HB2	45:VK:413:MET:HG2	1.90	0.54
46:WH:19:LYS:HE2	46:WH:227:HIS:ND1	2.22	0.54
46:WJ:31:ASP:OD2	46:WJ:33:THR:OG1	2.24	0.54
45:WM:105:ARG:HA	45:WM:109:THR:HB	1.88	0.54
45:DC:244:PHE:HB2	45:DC:356:ASN:HD21	1.72	0.54
45:DC:258:ASN:ND2	45:DC:352:LYS:HE3	2.20	0.54
3:0C:38:PRO:HD2	45:DI:89:PRO:HB3	1.89	0.54
9:0N:16:ILE:HG22	46:IN:48:ASN:HD22	1.72	0.54
8:1H:60:ARG:NH1	46:HN:32:PRO:HB2	2.20	0.54
24:1P:168:ARG:HH12	45:TI:281:ALA:HB3	1.72	0.54
13:1U:224:ARG:HH12	45:WC:40:LYS:HE2	1.70	0.54
1:3A:125:LEU:N	46:AN:276:ARG:HH12	2.05	0.54
34:5R:261:LEU:HD11	34:5R:271:LEU:HD12	1.88	0.54
10:6Q:75:PHE:HD1	10:6Q:133:GLN:HE21	1.54	0.54
46:AB:272:PRO:HG3	46:AB:284:LEU:HD11	1.89	0.54
45:AC:184:PRO:O	45:AC:188:ILE:HG12	2.08	0.54
46:CB:324:LYS:NZ	45:CC:220:GLU:O	2.38	0.54
46:CF:3:GLU:HG3	46:CF:49:VAL:HA	1.89	0.54
46:CL:130:LEU:HD11	46:CL:133:PHE:HE2	1.72	0.54
46:DD:289:LEU:HD13	46:DD:365:VAL:HG23	1.89	0.54
46:DF:174:LYS:HB2	46:DF:205:GLU:OE2	2.07	0.54
46:DH:326:VAL:HG21	46:DH:353:ILE:HD11	1.89	0.54
45:DI:71:GLU:HB3	45:DI:98:ASP:HB3	1.89	0.54
45:DM:262:TYR:CD1	45:DM:263:PRO:HD2	2.42	0.54
45:EA:254:GLU:HG2	46:EB:98:GLY:HA2	1.88	0.54
46:ED:221:THR:HG23	46:ED:224:ASP:H	1.72	0.54
46:EF:344:TRP:HB3	46:EF:430:ALA:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EN:226:ASN:HD21	49:EN:501:GDP:HN1	1.55	0.54
46:FB:60:VAL:HG21	46:FB:86:ARG:HG2	1.88	0.54
45:FC:55:GLU:HG3	45:FC:57:GLY:H	1.73	0.54
46:FD:133:PHE:HB2	46:FD:164:MET:SD	2.48	0.54
46:FH:394:PHE:HA	46:FH:397:TRP:CZ3	2.42	0.54
45:FI:181:VAL:HG22	46:FJ:256:ASN:OD1	2.07	0.54
46:FN:134:GLN:HE22	46:FN:136:THR:HG22	1.71	0.54
45:GE:69:ASP:OD1	45:GE:70:LEU:N	2.41	0.54
45:GG:242:LEU:HD11	45:GG:252:ILE:HG12	1.89	0.54
45:GI:96:LYS:NZ	46:GJ:1:MET:SD	2.75	0.54
46:GJ:204:ASN:O	46:GJ:208:TYR:HD2	1.89	0.54
46:HB:178:THR:HB	46:HB:181:GLU:HG3	1.89	0.54
45:HE:352:LYS:HZ1	46:HH:178:THR:HA	1.72	0.54
46:HH:67:ASP:O	46:HH:92:PHE:HA	2.07	0.54
45:II:119:LEU:HD11	45:II:156:ARG:HB3	1.89	0.54
45:II:407:TRP:CZ3	46:IJ:255:VAL:HA	2.42	0.54
45:IK:187:SER:O	45:IK:191:THR:HG23	2.07	0.54
45:JC:331:SER:O	45:JC:335:ILE:HG12	2.06	0.54
46:JD:20:PHE:HA	46:JD:230:SER:OG	2.08	0.54
45:JM:210:TYR:CE1	46:JN:324:LYS:HB3	2.43	0.54
45:KA:338:LYS:NZ	45:KA:340:THR:H	2.05	0.54
45:KK:141:VAL:HG21	45:KK:172:TYR:HE1	1.72	0.54
46:KL:68:LEU:HD23	46:KL:143:THR:OG1	2.07	0.54
46:KN:10:GLY:O	46:KN:14:ASN:ND2	2.41	0.54
46:LB:67:ASP:O	46:LB:92:PHE:HA	2.06	0.54
46:LF:86:ARG:HD2	46:MF:281:TYR:HD1	1.72	0.54
45:LG:398:MET:HG2	46:LH:345:ILE:HG22	1.90	0.54
46:LN:211:CYS:SG	46:LN:220:PRO:HB3	2.48	0.54
46:MB:67:ASP:O	46:MB:92:PHE:HA	2.07	0.54
46:MH:99:ASN:HA	46:MH:142:GLY:H	1.72	0.54
46:MH:376:GLU:HA	46:MH:379:LYS:HD3	1.88	0.54
45:MI:208:ALA:O	45:MI:212:ILE:HG12	2.07	0.54
45:MK:118:CYS:O	45:MK:122:ILE:HG12	2.07	0.54
45:NC:98:ASP:OD1	45:NC:99:ALA:N	2.41	0.54
46:ND:183:TYR:HE1	46:ND:388:MET:HB3	1.71	0.54
45:NM:322:ASP:OD1	45:NM:373:ARG:NH1	2.40	0.54
45:OA:136:LEU:HD13	45:OA:167:LEU:HB2	1.88	0.54
46:OF:303:ALA:HB2	46:OF:377:MET:HE1	1.90	0.54
45:OI:205:ASP:OD1	45:OI:303:ALA:HA	2.08	0.54
45:OI:224:TYR:HB2	46:OJ:245:GLN:NE2	2.21	0.54
46:OJ:68:LEU:HB3	46:OJ:96:GLY:HA2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:387:VAL:HA	45:PA:390:ARG:HG2	1.87	0.54
46:PB:226:ASN:HD21	49:PB:501:GDP:HN1	1.55	0.54
45:PC:231:ILE:O	45:PC:235:ILE:HG12	2.07	0.54
45:PE:210:TYR:CD1	46:PF:324:LYS:HG3	2.42	0.54
45:PI:140:SER:OG	47:PI:501:GTP:O2B	2.25	0.54
46:PL:344:TRP:CE3	46:PL:345:ILE:HG23	2.42	0.54
46:PN:109:GLY:HA2	46:PN:112:LEU:HG	1.90	0.54
45:QC:76:ASP:HA	45:QC:79:ARG:HG2	1.90	0.54
45:QG:171:ILE:O	45:QG:171:ILE:HG13	2.06	0.54
46:QL:73:MET:HA	46:QL:76:VAL:HG12	1.90	0.54
46:RB:149:THR:HA	46:RB:152:ILE:HD12	1.89	0.54
45:RC:74:VAL:O	45:RC:78:VAL:HG23	2.07	0.54
45:RE:76:ASP:HA	45:RE:79:ARG:HG2	1.89	0.54
46:RJ:166:THR:HG1	46:RJ:199:CYS:HG	1.49	0.54
46:SH:52:ASN:OD1	46:SH:62:ARG:NH2	2.40	0.54
45:SK:72:PRO:HA	45:SK:75:ILE:HG22	1.89	0.54
46:SL:175:VAL:HG22	46:SL:205:GLU:HB3	1.89	0.54
45:TC:229:ARG:HH11	45:TC:366:GLY:HA2	1.72	0.54
46:TF:222:TYR:O	46:TF:226:ASN:ND2	2.29	0.54
45:TG:223:THR:HG23	45:TG:225:THR:H	1.72	0.54
45:TI:390:ARG:HG3	45:TI:391:LEU:HD12	1.90	0.54
46:TJ:286:VAL:HG23	46:TJ:287:PRO:HD3	1.90	0.54
45:TM:107:HIS:ND1	45:TM:107:HIS:O	2.41	0.54
46:UB:309:ARG:N	46:UB:426:GLN:HE22	2.05	0.54
46:UD:290:THR:HA	46:UD:293:MET:HG3	1.89	0.54
46:UJ:107:THR:OG1	46:UJ:108:GLU:OE1	2.25	0.54
46:UL:248:SER:HA	46:UL:252:LYS:HD2	1.88	0.54
45:VC:101:ASN:HA	45:VC:144:GLY:H	1.71	0.54
46:VF:68:LEU:HB3	46:VF:96:GLY:HA2	1.89	0.54
46:VF:268:ILE:HG22	46:VF:368:VAL:HG22	1.89	0.54
46:VH:150:LEU:O	46:VH:154:LYS:HG2	2.06	0.54
45:WC:167:LEU:HD13	45:WC:200:VAL:HB	1.90	0.54
45:WK:8:HIS:HB2	45:WK:67:PHE:HD2	1.70	0.54
45:WM:402:ARG:HD2	45:WM:405:VAL:HB	1.89	0.54
18:1I:204:GLN:NE2	15:4X:141:PHE:O	2.34	0.54
21:1L:285:ARG:HH12	46:BH:284:LEU:HB2	1.71	0.54
25:1R:458:ILE:HG12	46:FD:276:ARG:HH22	1.71	0.54
24:2P:414:ASN:HB3	46:TL:280:GLN:HE21	1.73	0.54
34:4R:219:LYS:NZ	46:BH:75:SER:O	2.36	0.54
36:5A:130:ASP:OD1	36:5A:131:ARG:N	2.41	0.54
37:5F:9:TYR:HD2	37:5F:15:THR:HG21	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:6Q:26:ASP:HB2	10:6Q:63:ALA:HA	1.88	0.54
46:AB:39:ASP:OD1	46:AB:40:SER:N	2.40	0.54
46:AL:404:ASP:OD1	46:AL:406:MET:HG2	2.08	0.54
46:BD:325:GLU:HA	46:BD:328:GLU:CD	2.28	0.54
45:BG:222:PRO:HD2	46:BH:324:LYS:HG3	1.89	0.54
46:CN:387:ALA:HA	46:CN:390:ARG:HE	1.72	0.54
46:DB:258:ILE:HG13	46:DB:266:PHE:CZ	2.43	0.54
45:DK:79:ARG:O	45:DK:84:ARG:NE	2.40	0.54
45:EE:204:LEU:HD23	45:EE:302:MET:HE1	1.88	0.54
45:EE:320:ARG:HH21	45:EE:360:PRO:HA	1.71	0.54
46:EF:67:ASP:O	46:EF:92:PHE:HA	2.07	0.54
46:EF:293:MET:HE2	46:EF:367:PHE:CD1	2.42	0.54
45:FG:208:ALA:O	45:FG:212:ILE:HG12	2.08	0.54
46:FN:73:MET:HA	46:FN:76:VAL:HG22	1.89	0.54
46:GF:67:ASP:OD2	46:GF:68:LEU:N	2.40	0.54
46:GF:235:GLY:HA3	46:GF:366:THR:HG21	1.89	0.54
45:HG:296:PHE:CE2	45:HG:335:ILE:HG21	2.42	0.54
45:HI:222:PRO:C	46:HJ:324:LYS:HZ3	2.11	0.54
46:HL:148:GLY:O	46:HL:152:ILE:HG12	2.06	0.54
46:IB:207:LEU:HB3	46:IB:225:LEU:HD22	1.89	0.54
46:ID:196:ALA:HB3	46:ID:264:HIS:CE1	2.42	0.54
46:IH:100:ASN:HD22	46:IH:103:LYS:HB2	1.72	0.54
45:II:75:ILE:HG23	45:II:92:LEU:HD23	1.88	0.54
45:IM:268:MET:HB2	45:IM:379:SER:O	2.08	0.54
47:IM:501:GTP:O1G	46:IN:252:LYS:NZ	2.37	0.54
46:KF:267:MET:HG3	46:KF:301:CYS:SG	2.48	0.54
45:KI:33:ASP:OD1	45:KI:34:GLY:N	2.39	0.54
46:LB:6:HIS:O	46:LB:63:ALA:HA	2.07	0.54
46:LD:153:SER:O	46:LD:157:GLU:HG2	2.08	0.54
45:LK:88:HIS:CE1	45:LK:90:GLU:HG2	2.43	0.54
45:LK:371:VAL:HG22	45:LK:373:ARG:H	1.71	0.54
45:LM:387:VAL:HG12	45:LM:390:ARG:HH21	1.72	0.54
46:MD:394:PHE:HA	46:MD:397:TRP:CZ3	2.43	0.54
45:NC:10:GLY:O	45:NC:14:ILE:HG12	2.07	0.54
45:NC:205:ASP:N	45:NC:205:ASP:OD1	2.38	0.54
46:ND:293:MET:HE1	46:ND:317:PHE:HE1	1.71	0.54
46:NF:207:LEU:HB3	46:NF:225:LEU:HD22	1.89	0.54
45:NG:219:ILE:HG13	45:NG:221:ARG:H	1.71	0.54
45:NK:32:PRO:HB3	45:NK:83:TYR:CE1	2.42	0.54
46:NL:248:SER:HA	46:NL:252:LYS:HD3	1.89	0.54
45:NM:91:GLN:HE21	45:NM:121:ARG:NH2	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OC:336:LYS:O	45:OC:339:ARG:NH2	2.40	0.54
45:OC:399:TYR:OH	45:OC:415:GLU:OE2	2.25	0.54
45:OE:108:TYR:O	45:OE:112:LYS:NZ	2.33	0.54
45:OI:387:VAL:HA	45:OI:390:ARG:HG2	1.88	0.54
45:PA:188:ILE:HA	45:PA:191:THR:HG22	1.87	0.54
46:PH:293:MET:HG2	46:PH:365:VAL:HG11	1.88	0.54
45:PI:154:LEU:HD23	45:PI:194:LEU:HG	1.90	0.54
46:PN:150:LEU:HG	46:PN:154:LYS:NZ	2.22	0.54
46:QB:2:ARG:NH2	45:QC:97:GLU:HB2	2.21	0.54
45:QC:133:GLN:HB3	45:QC:252:ILE:HD13	1.90	0.54
45:QE:64:ARG:NH1	45:QE:129:CYS:SG	2.81	0.54
45:QG:288:VAL:HG11	45:QG:327:ASP:HB3	1.88	0.54
46:QL:257:LEU:HD23	46:QL:266:PHE:HE2	1.71	0.54
46:QL:274:THR:HB	46:QL:282:ARG:HH11	1.72	0.54
45:RC:175:PRO:HB3	45:RC:390:ARG:HD2	1.90	0.54
46:RF:99:ASN:HA	46:RF:142:GLY:H	1.71	0.54
45:RI:242:LEU:HD11	45:RI:252:ILE:HG12	1.88	0.54
45:RI:329:ASN:HA	45:RI:332:ILE:HG12	1.90	0.54
45:RK:15:GLN:NE2	47:RK:501:GTP:O6	2.40	0.54
45:RM:135:PHE:HB2	45:RM:166:LYS:HG2	1.90	0.54
45:RM:167:LEU:HG	45:RM:200:VAL:HB	1.89	0.54
46:SF:266:PHE:CE1	46:SF:370:ASN:HB2	2.43	0.54
46:SH:289:LEU:HD13	46:SH:365:VAL:HG23	1.90	0.54
46:SJ:64:ILE:HG13	46:SJ:120:VAL:HG12	1.89	0.54
45:SK:35:GLN:HE22	45:SK:59:GLY:HA3	1.72	0.54
46:TD:12:CYS:O	46:TD:16:ILE:HG12	2.07	0.54
46:TL:103:LYS:HG2	46:TL:107:THR:OG1	2.07	0.54
46:UB:325:GLU:HB2	45:UC:221:ARG:NH1	2.23	0.54
46:UH:173:PRO:HD3	46:UH:380:ARG:NH1	2.23	0.54
45:VA:107:HIS:HA	45:VA:152:LEU:HD11	1.88	0.54
45:VC:145:THR:OG1	47:VC:501:GTP:O1B	2.26	0.54
46:VL:48:ASN:O	46:VL:62:ARG:NH1	2.39	0.54
46:VL:318:ARG:HB2	46:VL:364:ALA:HB3	1.89	0.54
46:WB:148:GLY:O	46:WB:152:ILE:HG12	2.07	0.54
45:WG:419:SER:O	45:WG:423:GLU:HG3	2.07	0.54
46:WH:73:MET:HE3	46:WH:92:PHE:HB3	1.88	0.54
46:WL:130:LEU:HD23	46:WL:162:ARG:HG3	1.90	0.54
45:CE:328:VAL:O	45:CE:332:ILE:HG12	2.08	0.54
1:0A:138:TRP:HZ3	45:AA:81:GLY:HA2	1.73	0.54
19:1J:141:GLY:HA3	45:IE:372:MET:HE1	1.90	0.54
21:2L:549:LEU:HD11	45:BM:367:ASP:HA	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:3R:7:LYS:NZ	46:MN:22:GLU:OE1	2.38	0.54
34:4R:80:ARG:NE	45:ME:33:ASP:OD2	2.26	0.54
40:6G:253:HIS:HD2	46:VD:307:HIS:NE2	2.05	0.54
34:6R:570:VAL:HG12	34:6R:585:ILE:HD13	1.89	0.54
45:AC:118:CYS:O	45:AC:122:ILE:HG12	2.07	0.54
45:BC:71:GLU:HB3	46:BD:2:ARG:HH22	1.73	0.54
45:BI:147:SER:HB2	45:BI:190:SER:OG	2.08	0.54
46:BJ:207:LEU:HA	46:BJ:210:ILE:HD12	1.89	0.54
46:BJ:248:SER:HA	46:BJ:252:LYS:HG3	1.88	0.54
45:CA:37:PRO:HB2	45:CA:40:LYS:HB2	1.89	0.54
46:CF:324:LYS:HG3	45:CG:222:PRO:HD2	1.89	0.54
46:DD:238:CYS:SG	46:DD:239:CYS:N	2.81	0.54
46:DH:257:LEU:HD11	46:DH:314:SER:HB2	1.89	0.54
46:DJ:252:LYS:HE2	45:DK:100:ALA:HA	1.89	0.54
46:DL:27:GLU:O	46:DL:43:GLN:NE2	2.40	0.54
46:EB:268:ILE:HG22	46:EB:368:VAL:HG22	1.88	0.54
45:EC:230:LEU:HD13	45:EC:233:GLN:HE22	1.72	0.54
46:ED:375:GLN:HB2	46:ED:379:LYS:HZ2	1.72	0.54
45:EE:69:ASP:OD2	45:EE:70:LEU:N	2.40	0.54
46:EF:210:ILE:O	46:EF:214:THR:OG1	2.19	0.54
45:EG:276:ILE:HD11	45:EG:280:LYS:HG2	1.89	0.54
45:EK:319:TYR:HE2	45:EK:328:VAL:HG13	1.72	0.54
46:EL:107:THR:OG1	46:EL:108:GLU:OE1	2.24	0.54
46:EL:317:PHE:HE1	46:EL:326:VAL:HG13	1.72	0.54
46:EN:22:GLU:HA	46:EN:81:PHE:HD2	1.73	0.54
45:FA:336:LYS:HD3	45:FA:351:PHE:CE1	2.42	0.54
46:FF:334:GLN:HA	46:FF:341:PHE:HE1	1.72	0.54
45:FG:288:VAL:HA	45:FG:291:ILE:HG22	1.90	0.54
46:FJ:22:GLU:HG2	46:FJ:81:PHE:CD2	2.43	0.54
46:GB:223:GLY:O	46:GB:227:HIS:ND1	2.40	0.54
45:GM:76:ASP:OD1	45:GM:79:ARG:NH2	2.40	0.54
46:HD:302:ALA:HB3	46:HD:377:MET:HE1	1.89	0.54
46:HH:309:ARG:HE	46:HH:342:VAL:HA	1.73	0.54
45:HK:88:HIS:ND1	45:IK:284:GLU:OE1	2.40	0.54
45:IE:69:ASP:OD1	45:IE:70:LEU:N	2.41	0.54
45:JE:46:ASP:OD1	45:JE:48:ALA:N	2.35	0.54
45:JG:36:MET:SD	45:JG:37:PRO:HD2	2.46	0.54
45:JK:377:MET:HE3	45:JK:378:ILE:N	2.23	0.54
45:KA:75:ILE:O	45:KA:79:ARG:HG3	2.07	0.54
45:KA:326:LYS:HE3	46:KD:208:TYR:CD1	2.43	0.54
46:KJ:69:GLU:HG2	46:KJ:96:GLY:HA2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KL:121:ARG:NH2	46:KL:158:GLU:OE1	2.38	0.54
46:MF:31:ASP:OD2	46:MF:35:THR:OG1	2.26	0.54
46:MN:398:TYR:HD2	46:MN:408:PHE:HZ	1.54	0.54
46:NB:303:ALA:HB2	46:NB:377:MET:HE1	1.89	0.54
46:ND:12:CYS:O	46:ND:16:ILE:HG12	2.07	0.54
45:NG:132:LEU:O	45:NG:164:LYS:NZ	2.32	0.54
46:NL:235:GLY:HA3	46:NL:366:THR:HG21	1.89	0.54
45:NM:175:PRO:O	45:NM:390:ARG:NH2	2.41	0.54
46:OB:251:ARG:NH1	46:OB:255:VAL:HG21	2.22	0.54
46:OB:371:SER:O	46:OB:422:TYR:OH	2.21	0.54
45:OE:287:SER:O	45:OE:291:ILE:HG12	2.07	0.54
45:OM:71:GLU:OE2	46:ON:2:ARG:NH1	2.41	0.54
46:ON:32:PRO:O	46:ON:83:GLN:NE2	2.40	0.54
45:PC:51:THR:HG21	45:PC:243:ARG:HB3	1.88	0.54
46:PD:2:ARG:HD2	46:PD:131:GLN:NE2	2.22	0.54
45:QG:265:ILE:HD11	45:QG:435:VAL:HG21	1.88	0.54
45:QG:333:ALA:O	45:QG:337:THR:HG23	2.07	0.54
46:QJ:63:ALA:O	46:QJ:89:ASN:ND2	2.41	0.54
46:QL:222:TYR:O	46:QL:226:ASN:ND2	2.26	0.54
45:RA:53:PHE:HB3	45:RA:61:HIS:HB3	1.89	0.54
45:RC:288:VAL:HG11	45:RC:327:ASP:HB3	1.87	0.54
46:RD:268:ILE:HG22	46:RD:368:VAL:HG22	1.89	0.54
45:RK:205:ASP:OD2	45:RK:205:ASP:N	2.38	0.54
46:RL:379:LYS:HE3	46:RL:419:VAL:HG11	1.87	0.54
45:SC:66:VAL:HG11	45:SC:122:ILE:HD11	1.90	0.54
45:SC:171:ILE:HA	45:SC:204:LEU:HB2	1.89	0.54
45:SK:171:ILE:HA	45:SK:204:LEU:HB2	1.88	0.54
45:TC:99:ALA:O	45:TC:105:ARG:NH2	2.39	0.54
46:UF:172:SER:OG	46:UF:205:GLU:OE1	2.24	0.54
46:UH:240:LEU:HD21	46:UH:249:ASP:HA	1.88	0.54
45:UK:3:GLU:HG2	45:UK:132:LEU:HA	1.90	0.54
45:UM:71:GLU:OE1	45:UM:73:THR:HG22	2.07	0.54
45:UM:269:LEU:HD23	45:UM:303:ALA:HB3	1.89	0.54
46:VD:309:ARG:NH1	46:VD:343:GLU:OE1	2.41	0.54
45:VG:75:ILE:HA	45:VG:78:VAL:HG12	1.90	0.54
45:VI:332:ILE:HD11	45:VI:351:PHE:CD1	2.43	0.54
46:WF:22:GLU:HG2	46:WF:81:PHE:HB2	1.89	0.54
8:1H:115:ARG:HH21	46:HL:279:GLN:HG2	1.72	0.54
19:1J:142:VAL:HG12	45:IE:373:ARG:HH22	1.73	0.54
12:3T:127:GLU:HB3	45:AK:337:THR:HG22	1.89	0.54
34:4R:80:ARG:NH1	45:ME:37:PRO:O	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5G:26:GLY:HA2	45:OG:221:ARG:NH2	2.23	0.54
10:5Q:34:ILE:HG13	10:5Q:49:ILE:HG22	1.90	0.54
34:5R:422:TYR:HB2	34:5R:448:CYS:SG	2.48	0.54
35:5S:81:HIS:CE1	45:WE:164:LYS:HB2	2.42	0.54
40:6G:152:GLU:HA	40:6G:155:LYS:HG3	1.88	0.54
45:AI:118:CYS:O	45:AI:122:ILE:HG12	2.06	0.54
46:AL:178:THR:HB	46:AL:181:GLU:HG3	1.89	0.54
45:BG:105:ARG:NH2	46:BH:251:ARG:HH22	2.06	0.54
45:BK:213:CYS:SG	45:BK:222:PRO:HG3	2.48	0.54
45:BM:224:TYR:HD1	47:BM:501:GTP:C6	2.26	0.54
46:CF:11:GLN:HA	46:CF:14:ASN:HD22	1.72	0.54
45:CK:340:THR:HG23	45:CK:341:ILE:HG13	1.88	0.54
45:CM:271:SER:OG	45:CM:301:MET:SD	2.65	0.54
46:DD:292:GLN:HG2	46:DD:298:ASN:ND2	2.17	0.54
45:DG:326:LYS:HZ1	46:DH:219:THR:HA	1.72	0.54
45:DI:20:CYS:HA	45:DI:232:ALA:HB1	1.89	0.54
45:DI:67:PHE:HB2	45:DI:92:LEU:HD13	1.88	0.54
45:DM:239:THR:HG23	45:DM:243:ARG:HH21	1.73	0.54
45:EI:69:ASP:OD1	45:EI:70:LEU:N	2.41	0.54
45:FA:171:ILE:O	45:FA:171:ILE:HG13	2.08	0.54
45:FA:262:TYR:OH	46:FD:391:ARG:O	2.24	0.54
46:FB:299:MET:HG3	46:FB:301:CYS:H	1.72	0.54
46:FJ:229:VAL:HG12	46:FJ:233:MET:HE2	1.89	0.54
46:FN:289:LEU:O	46:FN:293:MET:HG3	2.06	0.54
46:GH:3:GLU:OE1	46:GH:3:GLU:N	2.38	0.54
46:HB:116:VAL:HA	46:HB:119:VAL:HG22	1.90	0.54
45:HK:221:ARG:NH2	46:HL:322:SER:O	2.40	0.54
46:HN:249:ASP:OD2	46:HN:252:LYS:HG3	2.08	0.54
46:HN:273:LEU:N	46:HN:292:GLN:HE22	2.05	0.54
45:IG:207:GLU:HA	45:IG:210:TYR:HD2	1.73	0.54
45:IK:206:ASN:OD1	47:IK:501:GTP:N2	2.40	0.54
45:IK:279:GLU:O	45:IK:282:TYR:HB2	2.08	0.54
45:JE:17:GLY:HA2	45:JE:20:CYS:SG	2.47	0.54
45:JI:88:HIS:CE1	45:JI:90:GLU:HG3	2.43	0.54
45:KA:392:ASP:OD2	45:KA:422:ARG:NH1	2.41	0.54
46:LB:266:PHE:CE1	46:LB:370:ASN:HB2	2.42	0.54
45:LG:98:ASP:O	45:LG:105:ARG:NH1	2.41	0.54
46:LH:62:ARG:NH1	46:LH:127:CYS:SG	2.81	0.54
46:LL:396:HIS:HA	46:LL:399:THR:HG22	1.90	0.54
46:MB:372:THR:HA	46:MB:422:TYR:HE2	1.72	0.54
45:MC:88:HIS:CE1	45:MC:90:GLU:HG2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MI:68:LEU:HD13	45:MI:93:ILE:HB	1.90	0.54
45:MK:242:LEU:HD11	45:MK:252:ILE:HG12	1.90	0.54
46:NB:190:HIS:CD2	46:NB:411:ALA:HA	2.43	0.54
46:NH:257:LEU:HD21	46:NH:314:SER:HB3	1.88	0.54
45:OC:180:ALA:HB3	45:OC:183:GLU:HG3	1.89	0.54
45:OC:395:PHE:HZ	45:OC:418:PHE:HB3	1.73	0.54
46:OD:171:PRO:O	46:OD:380:ARG:NH2	2.41	0.54
45:OI:399:TYR:OH	45:OI:415:GLU:OE2	2.26	0.54
45:QA:268:MET:SD	45:QA:269:LEU:N	2.81	0.54
45:QE:68:LEU:HD23	45:QE:93:ILE:HB	1.89	0.54
45:QE:108:TYR:O	45:QE:112:LYS:NZ	2.38	0.54
46:QH:158:GLU:HG2	46:QH:159:TYR:CE1	2.43	0.54
45:RA:333:ALA:O	45:RA:337:THR:HG23	2.07	0.54
46:RB:151:LEU:O	46:RB:155:VAL:HG12	2.07	0.54
45:RC:172:TYR:HB2	45:RC:203:MET:HE1	1.88	0.54
46:RD:145:SER:HB2	46:RD:188:SER:HB3	1.88	0.54
46:RJ:222:TYR:HA	46:RJ:225:LEU:HG	1.88	0.54
46:RL:252:LYS:HA	46:RL:255:VAL:HG22	1.89	0.54
46:SB:257:LEU:HB3	46:SB:266:PHE:CE1	2.42	0.54
46:SD:46:ARG:NH2	45:SE:76:ASP:OD2	2.41	0.54
46:TF:73:MET:HA	46:TF:76:VAL:HG12	1.88	0.54
45:TG:88:HIS:HA	45:UG:283:HIS:HE1	1.73	0.54
46:TJ:67:ASP:OD1	46:TJ:68:LEU:N	2.40	0.54
46:TL:23:VAL:HG11	46:TL:230:SER:HB3	1.89	0.54
45:TM:88:HIS:HD2	45:UM:283:HIS:HD2	1.54	0.54
46:UB:185:ALA:O	46:UB:189:VAL:HG23	2.07	0.54
46:UJ:119:VAL:HA	46:UJ:122:LYS:HG2	1.90	0.54
46:UL:316:LEU:HB2	46:UL:366:THR:OG1	2.07	0.54
46:UN:257:LEU:HD11	46:UN:314:SER:HB2	1.89	0.54
46:UN:372:THR:HA	46:UN:422:TYR:HE2	1.72	0.54
45:VA:287:SER:O	45:VA:290:GLU:HG2	2.07	0.54
45:VG:3:GLU:N	45:VG:133:GLN:OE1	2.41	0.54
45:VK:27:GLU:HG3	45:VK:361:THR:HG21	1.90	0.54
46:WB:290:THR:HA	46:WB:293:MET:HG3	1.88	0.54
45:WI:239:THR:HG23	45:WI:243:ARG:HE	1.72	0.54
46:WJ:161:ASP:OD1	46:WJ:162:ARG:NH1	2.38	0.54
46:WJ:406:MET:O	46:WJ:410:GLU:HG2	2.07	0.54
45:WM:391:LEU:HA	45:WM:394:LYS:HZ3	1.73	0.54
46:WN:164:MET:HG2	46:WN:197:ASP:HB2	1.89	0.54
4:OD:99:ARG:HH22	45:EC:365:GLY:H	1.56	0.54
18:II:19:GLN:NE2	46:ID:45:GLU:OE1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:1X:78:ASN:HD22	46:MF:280:GLN:HE21	1.55	0.54
1:2A:6:TYR:HA	34:5R:8:THR:HB	1.90	0.54
21:3L:163:ARG:HH22	45:BA:75:ILE:HG22	1.72	0.54
14:3V:24:ARG:HB3	45:MA:430:LYS:HE2	1.89	0.54
15:3X:81:ARG:HG2	46:MN:276:ARG:NH1	2.21	0.54
35:4S:68:TYR:HA	35:4S:71:ARG:HD3	1.90	0.54
36:5B:82:ASP:HA	36:5B:85:ARG:NH1	2.22	0.54
34:6R:593:ASP:OD2	34:6R:597:ASN:N	2.40	0.54
46:AB:116:VAL:HA	46:AB:119:VAL:HG12	1.89	0.54
45:AC:205:ASP:OD1	45:AC:303:ALA:HA	2.06	0.54
46:AD:208:TYR:HE1	46:AD:225:LEU:HD11	1.73	0.54
45:AG:109:THR:O	45:AG:112:LYS:NZ	2.37	0.54
45:AK:192:HIS:NE2	45:AK:420:GLU:OE1	2.38	0.54
45:BI:3:GLU:OE2	45:BI:131:GLY:N	2.37	0.54
46:BN:65:LEU:HD22	46:BN:90:PHE:CE1	2.42	0.54
46:BN:139:LEU:HD22	46:BN:170:VAL:HG12	1.89	0.54
46:CB:7:ILE:HG23	46:CB:64:ILE:HD11	1.89	0.54
45:CG:90:GLU:HG3	45:DG:280:LYS:HZ3	1.72	0.54
45:CG:90:GLU:OE2	45:CG:121:ARG:NH2	2.41	0.54
45:CG:262:TYR:HD2	45:CG:265:ILE:HD12	1.73	0.54
46:CL:116:VAL:HA	46:CL:119:VAL:HG12	1.90	0.54
45:EC:288:VAL:HG11	45:EC:327:ASP:HB3	1.88	0.54
46:ED:5:VAL:HG12	46:ED:62:ARG:HD2	1.90	0.54
46:ED:409:THR:O	46:ED:412:GLU:HG3	2.08	0.54
46:EL:208:TYR:CE2	46:EL:225:LEU:HD11	2.42	0.54
46:EN:222:TYR:O	46:EN:226:ASN:ND2	2.33	0.54
45:FA:100:ALA:HB2	46:FB:251:ARG:HH21	1.72	0.54
45:GG:231:ILE:O	45:GG:235:ILE:HD12	2.08	0.54
46:GH:74:ASP:OD1	46:GH:77:ARG:NH2	2.40	0.54
45:HA:22:GLU:O	45:HA:26:LEU:HD23	2.07	0.54
46:HJ:257:LEU:HD21	46:HJ:314:SER:HB3	1.90	0.54
45:IA:53:PHE:O	45:IA:64:ARG:NH2	2.41	0.54
46:IB:148:GLY:O	46:IB:152:ILE:HG12	2.07	0.54
46:IB:286:VAL:HG23	46:IB:287:PRO:HD3	1.89	0.54
45:IC:425:LEU:O	45:IC:429:GLU:HG2	2.07	0.54
45:IE:127:ASP:OD1	45:IE:128:ASN:N	2.41	0.54
45:II:407:TRP:CH2	46:IJ:255:VAL:HA	2.42	0.54
45:IM:52:PHE:HZ	45:IM:239:THR:HG21	1.73	0.54
45:JA:426:ALA:HB1	45:JA:430:LYS:NZ	2.22	0.54
45:JC:215:ARG:NH2	45:JC:299:ALA:O	2.41	0.54
46:JF:209:ASP:OD1	46:JF:210:ILE:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JF:252:LYS:O	46:JF:256:ASN:HB2	2.08	0.54
45:JK:211:ASP:HA	45:JK:214:ARG:HG3	1.90	0.54
46:JN:375:GLN:HA	46:JN:378:PHE:CD2	2.42	0.54
45:KE:345:ASP:OD1	45:KE:346:TRP:N	2.41	0.54
45:KK:215:ARG:NH2	45:KK:299:ALA:O	2.39	0.54
45:KM:140:SER:HA	45:KM:171:ILE:HB	1.89	0.54
46:LH:73:MET:HA	46:LH:76:VAL:HG12	1.90	0.54
46:LH:222:TYR:O	46:LH:226:ASN:ND2	2.24	0.54
46:LL:52:ASN:OD1	46:LL:62:ARG:NH2	2.41	0.54
46:LL:282:ARG:NH2	46:LL:288:GLU:OE2	2.41	0.54
46:LN:73:MET:HA	46:LN:76:VAL:HG12	1.89	0.54
46:LN:174:LYS:HB2	46:LN:205:GLU:OE2	2.08	0.54
46:MD:238:CYS:SG	46:MD:239:CYS:N	2.81	0.54
46:MF:22:GLU:HG2	46:MF:81:PHE:CD2	2.43	0.54
46:MH:107:THR:HG23	46:MH:108:GLU:OE1	2.07	0.54
45:NI:90:GLU:HG3	45:NI:121:ARG:NH1	2.23	0.54
45:OC:88:HIS:HB3	45:OC:91:GLN:HE22	1.73	0.54
45:OE:298:PRO:HA	45:OE:301:MET:HE1	1.89	0.54
46:OF:221:THR:HG23	46:OF:224:ASP:H	1.72	0.54
45:OI:211:ASP:OD2	45:OI:215:ARG:NH1	2.39	0.54
46:OL:103:LYS:O	46:OL:107:THR:OG1	2.26	0.54
45:OM:21:TRP:CZ2	45:OM:65:ALA:HB2	2.42	0.54
45:OM:420:GLU:HA	45:OM:423:GLU:CD	2.27	0.54
45:PC:67:PHE:HB2	45:PC:92:LEU:HD13	1.89	0.54
45:PC:326:LYS:NZ	46:PF:220:PRO:O	2.28	0.54
45:QA:67:PHE:HB2	45:QA:92:LEU:HG	1.90	0.54
45:QC:284:GLU:HG2	45:QC:286:LEU:HD22	1.90	0.54
45:QG:261:PRO:HA	46:QH:394:PHE:HD1	1.73	0.54
45:QK:88:HIS:CE1	45:QK:90:GLU:HB2	2.42	0.54
45:QK:277:SER:OG	45:QK:280:LYS:NZ	2.39	0.54
45:QM:171:ILE:HG13	45:QM:171:ILE:O	2.06	0.54
45:QM:223:THR:HG23	45:QM:225:THR:H	1.73	0.54
46:RB:73:MET:HA	46:RB:76:VAL:HG12	1.90	0.54
46:RB:117:LEU:HD13	46:RB:154:LYS:HD2	1.89	0.54
45:RC:258:ASN:HD21	46:RD:178:THR:HG23	1.73	0.54
45:RC:326:LYS:HB3	46:RD:208:TYR:CE1	2.43	0.54
46:RJ:1:MET:SD	46:RJ:2:ARG:HG2	2.47	0.54
46:RJ:268:ILE:HG22	46:RJ:368:VAL:HG22	1.89	0.54
45:RK:265:ILE:HD11	45:RK:435:VAL:HG21	1.88	0.54
46:SD:260:PHE:HB2	46:SD:263:LEU:HD13	1.90	0.54
46:SF:83:GLN:O	46:TF:281:TYR:OH	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SG:83:TYR:HB3	45:SG:86:LEU:HD12	1.89	0.54
46:SL:139:LEU:HD13	46:SL:168:SER:HB3	1.88	0.54
46:TB:200:MET:SD	46:TB:266:PHE:HB2	2.48	0.54
46:TD:6:HIS:O	46:TD:63:ALA:HA	2.07	0.54
45:TG:89:PRO:HG2	45:UG:280:LYS:HZ2	1.72	0.54
46:TN:3:GLU:HG3	46:TN:62:ARG:NH1	2.23	0.54
45:UA:292:THR:HG21	45:UA:331:SER:HB3	1.89	0.54
45:UG:326:LYS:HD3	46:UH:212:PHE:CZ	2.42	0.54
46:UH:164:MET:HE3	46:UH:196:ALA:HA	1.88	0.54
46:UL:200:MET:HE1	46:UL:268:ILE:HG12	1.90	0.54
46:UN:229:VAL:O	46:UN:233:MET:HG2	2.08	0.54
46:VB:344:TRP:HB3	46:VB:430:ALA:HB2	1.90	0.54
45:VC:352:LYS:NZ	46:VF:179:VAL:H	2.03	0.54
45:VE:140:SER:OG	47:VE:501:GTP:O2B	2.25	0.54
45:VG:317:MET:HG3	45:VG:377:MET:HG2	1.90	0.54
45:VK:205:ASP:OD2	45:VK:303:ALA:HA	2.07	0.54
46:WB:375:GLN:HE22	46:WB:422:TYR:HB3	1.72	0.54
45:WG:221:ARG:NH2	46:WH:322:SER:OG	2.40	0.54
46:WH:149:THR:HA	46:WH:152:ILE:HD12	1.88	0.54
46:WL:99:ASN:HA	46:WL:142:GLY:H	1.72	0.54
3:OC:75:LEU:HB2	46:EH:362:LYS:NZ	2.23	0.54
10:1Q:55:SER:OG	45:AC:422:ARG:NH2	2.40	0.54
30:2H:170:ILE:HG22	34:7R:84:PRO:HG2	1.89	0.54
11:2S:150:GLN:HE22	45:WG:164:LYS:H	1.55	0.54
30:3H:219:ILE:O	45:MG:84:ARG:NH2	2.41	0.54
35:4S:62:ILE:HG13	35:4S:67:LYS:HE3	1.90	0.54
34:6R:511:TYR:HB2	45:EM:39:ASP:HB3	1.88	0.54
46:AB:309:ARG:N	46:AB:426:GLN:HE22	2.06	0.54
45:AM:328:VAL:HG11	45:AM:353:VAL:HG21	1.88	0.54
46:BH:132:GLY:HA3	46:BH:163:ILE:O	2.08	0.54
46:BL:247:ASN:HD22	46:BL:247:ASN:C	2.10	0.54
46:CB:350:LYS:HZ3	45:CC:181:VAL:N	2.06	0.54
46:CD:285:THR:OG1	46:CD:288:GLU:OE1	2.25	0.54
45:CK:50:ASN:ND2	45:CK:50:ASN:O	2.41	0.54
46:CL:327:ASP:OD1	46:CL:328:GLU:N	2.41	0.54
45:CM:123:ARG:NH2	45:CM:127:ASP:OD1	2.39	0.54
46:DB:6:HIS:HE1	46:DB:8:GLN:HB3	1.72	0.54
46:DB:86:ARG:HH12	46:EB:280:GLN:HG2	1.73	0.54
46:DB:268:ILE:HG22	46:DB:368:VAL:HG22	1.90	0.54
45:DG:324:VAL:CG1	45:DG:326:LYS:HE2	2.38	0.54
45:DG:339:ARG:HA	45:DG:339:ARG:CZ	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DI:68:LEU:HG	45:DI:93:ILE:HB	1.89	0.54
46:DN:67:ASP:O	46:DN:92:PHE:HA	2.07	0.54
46:EH:15:GLN:OE1	46:EH:226:ASN:ND2	2.35	0.54
46:EH:289:LEU:O	46:EH:293:MET:HG3	2.08	0.54
45:EK:68:LEU:HD11	45:EK:118:CYS:SG	2.47	0.54
45:EK:101:ASN:HA	45:EK:144:GLY:H	1.73	0.54
46:EL:19:LYS:NZ	46:EL:223:GLY:O	2.41	0.54
46:FB:73:MET:HA	46:FB:76:VAL:HG12	1.89	0.54
46:FD:20:PHE:HD2	46:FD:21:TRP:CD1	2.26	0.54
46:FF:342:VAL:HG13	46:FF:345:ILE:HG22	1.90	0.54
46:FH:200:MET:SD	46:FH:266:PHE:HB2	2.48	0.54
46:GB:139:LEU:HD13	46:GB:168:SER:HB3	1.90	0.54
45:GC:98:ASP:O	45:GC:105:ARG:NH1	2.41	0.54
45:GG:35:GLN:HE22	45:GG:59:GLY:HA2	1.73	0.54
46:HB:221:THR:HG23	46:HB:224:ASP:H	1.72	0.54
46:HF:148:GLY:O	46:HF:152:ILE:HG12	2.08	0.54
46:HL:73:MET:HA	46:HL:76:VAL:HG12	1.90	0.54
45:IC:231:ILE:O	45:IC:235:ILE:HG12	2.08	0.54
46:IJ:86:ARG:NH2	45:JG:284:GLU:HG2	2.16	0.54
45:JA:135:PHE:HB2	45:JA:166:LYS:HG2	1.90	0.54
45:JA:271:SER:OG	45:JA:301:MET:SD	2.66	0.54
45:JC:387:VAL:HG12	45:JC:390:ARG:NH2	2.23	0.54
45:JG:140:SER:OG	47:JG:501:GTP:O2B	2.24	0.54
45:JK:206:ASN:OD1	47:JK:501:GTP:N2	2.41	0.54
45:JK:318:MET:N	45:JK:318:MET:SD	2.80	0.54
45:KA:53:PHE:HB3	45:KA:61:HIS:HB3	1.90	0.54
45:KC:88:HIS:CE1	45:KC:90:GLU:HG2	2.43	0.54
46:KF:208:TYR:HE1	46:KF:225:LEU:HD11	1.73	0.54
45:KI:7:ILE:HB	45:KI:137:VAL:HG12	1.90	0.54
45:MA:217:LEU:HB3	45:MA:219:ILE:HG13	1.88	0.54
46:NB:316:LEU:HD13	46:NB:352:SER:HB2	1.90	0.54
45:NC:414:GLU:OE1	45:NC:416:GLY:N	2.34	0.54
46:NJ:293:MET:SD	46:NJ:367:PHE:HB2	2.48	0.54
45:NK:278:ALA:HB2	45:NK:369:ALA:HB2	1.90	0.54
45:OE:252:ILE:HA	45:OE:255:PHE:CE2	2.43	0.54
46:OF:103:LYS:NZ	46:OF:401:GLU:OE2	2.34	0.54
45:OM:17:GLY:HA2	45:OM:20:CYS:SG	2.48	0.54
45:PC:326:LYS:HZ2	46:PF:219:THR:HA	1.71	0.54
46:PJ:290:THR:HA	46:PJ:293:MET:HG3	1.90	0.54
45:PK:26:LEU:HD21	45:PK:363:VAL:HG22	1.88	0.54
45:QA:224:TYR:HD1	45:QA:227:LEU:HD12	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:134:GLN:HG2	46:QB:165:GLU:HG3	1.88	0.54
46:QB:182:PRO:O	46:QB:186:THR:HG23	2.08	0.54
45:QC:328:VAL:HG11	45:QC:353:VAL:HG21	1.90	0.54
45:QE:101:ASN:HA	45:QE:144:GLY:H	1.72	0.54
45:QG:332:ILE:HA	45:QG:335:ILE:HG12	1.89	0.54
45:QK:318:MET:HB2	45:QK:376:CYS:SG	2.48	0.54
46:QL:213:ARG:HG3	46:QL:214:THR:HG23	1.89	0.54
46:RB:91:VAL:HG21	46:RB:116:VAL:HB	1.90	0.54
45:RK:346:TRP:CD1	46:RL:391:ARG:HG3	2.43	0.54
46:RL:99:ASN:OD1	46:RL:142:GLY:N	2.41	0.54
46:RL:165:GLU:HG2	46:RL:198:GLU:OE1	2.07	0.54
45:SA:76:ASP:OD1	45:SA:79:ARG:NH2	2.40	0.54
46:SD:8:GLN:HE22	46:SD:17:GLY:CA	2.21	0.54
45:SG:118:CYS:O	45:SG:122:ILE:HG12	2.08	0.54
46:SL:20:PHE:HA	46:SL:230:SER:OG	2.07	0.54
45:SM:98:ASP:OD1	45:SM:99:ALA:N	2.40	0.54
46:TF:139:LEU:HD13	46:TF:168:SER:HB3	1.89	0.54
46:TF:282:ARG:NE	46:TF:288:GLU:OE2	2.41	0.54
46:TJ:21:TRP:CZ2	46:TJ:63:ALA:HB2	2.43	0.54
45:TM:98:ASP:O	45:TM:105:ARG:NH1	2.41	0.54
46:UB:119:VAL:O	46:UB:122:LYS:HG3	2.07	0.54
46:UB:324:LYS:HZ2	45:UC:222:PRO:HD2	1.72	0.54
46:UF:290:THR:HA	46:UF:293:MET:HG3	1.89	0.54
45:UI:121:ARG:HH11	45:UI:121:ARG:HA	1.73	0.54
45:UM:89:PRO:HD2	45:VK:280:LYS:HE3	1.89	0.54
45:VA:231:ILE:O	45:VA:235:ILE:HG12	2.07	0.54
45:VC:222:PRO:O	46:VD:322:SER:HB2	2.08	0.54
45:VK:336:LYS:HD3	45:VK:351:PHE:HZ	1.71	0.54
46:VN:2:ARG:HA	46:VN:131:GLN:HE22	1.72	0.54
46:VN:208:TYR:HE2	46:VN:225:LEU:HD11	1.73	0.54
45:WC:340:THR:HG23	45:WC:341:ILE:HG13	1.89	0.54
46:WD:309:ARG:NH2	46:WD:426:GLN:O	2.32	0.54
45:WG:326:LYS:HE2	46:WJ:220:PRO:CD	2.36	0.54
45:WI:207:GLU:OE1	45:WI:207:GLU:N	2.37	0.54
45:DC:136:LEU:HD13	45:DC:167:LEU:HB2	1.90	0.54
45:DC:174:SER:HB2	45:DC:177:VAL:HB	1.89	0.54
15:0X:45:GLN:NE2	45:MA:282:TYR:CG	2.76	0.54
24:1P:189:HIS:CE1	46:TH:362:LYS:HG2	2.43	0.54
25:1R:224:PHE:CG	46:BF:80:PRO:HG3	2.43	0.54
25:1R:410:TRP:CH2	45:EC:372:MET:HG2	2.42	0.54
12:3T:224:LYS:HE2	45:MK:196:GLU:HG2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4R:33:LEU:H	45:LC:1:MET:HE1	1.73	0.54
37:5H:27:ARG:HH12	45:OK:221:ARG:HH12	1.56	0.54
40:6G:165:THR:OG1	40:6G:168:GLU:HG2	2.08	0.54
45:AA:171:ILE:O	45:AA:171:ILE:HG13	2.08	0.54
45:AG:210:TYR:HE2	45:AG:227:LEU:HD21	1.72	0.54
45:AK:101:ASN:HA	45:AK:144:GLY:H	1.71	0.54
45:BC:226:ASN:ND2	45:BC:367:ASP:OD2	2.41	0.54
45:BC:332:ILE:HD12	45:BC:351:PHE:CD2	2.43	0.54
45:BG:297:GLU:HB3	45:BG:300:ASN:OD1	2.07	0.54
46:BJ:273:LEU:H	46:BJ:292:GLN:HE22	1.53	0.54
45:BK:141:VAL:HG11	45:BK:172:TYR:CD1	2.43	0.54
46:BL:6:HIS:CE1	46:BL:134:GLN:HE21	2.26	0.54
46:CB:332:ASN:O	46:CB:336:LYS:HG2	2.07	0.54
46:CF:238:CYS:SG	46:CF:239:CYS:N	2.80	0.54
46:CF:313:ALA:HB1	46:CF:367:PHE:HE1	1.73	0.54
46:CH:290:THR:HA	46:CH:293:MET:HG2	1.89	0.54
46:DB:7:ILE:HG22	46:DB:64:ILE:HB	1.89	0.54
46:DF:138:SER:HA	46:DF:169:VAL:HB	1.88	0.54
46:EF:16:ILE:HD12	46:EF:229:VAL:HG11	1.90	0.54
46:EH:246:LEU:HD11	45:EI:224:TYR:HE2	1.73	0.54
45:EI:338:LYS:HZ2	45:EI:339:ARG:N	2.06	0.54
46:FJ:124:ALA:O	46:FJ:130:LEU:HD21	2.08	0.54
45:GC:73:THR:HB	46:GD:2:ARG:HH22	1.72	0.54
46:GF:31:ASP:OD1	46:GF:35:THR:N	2.31	0.54
45:GK:251:ASP:OD1	45:GK:252:ILE:N	2.40	0.54
46:HB:31:ASP:OD2	46:HB:37:HIS:ND1	2.41	0.54
46:HF:86:ARG:HD2	46:HF:87:PRO:HD2	1.89	0.54
46:HF:248:SER:HB2	46:HF:252:LYS:HD2	1.89	0.54
46:HH:294:PHE:HD2	46:HH:333:VAL:HG21	1.71	0.54
45:HM:340:THR:HG23	45:HM:341:ILE:HG13	1.90	0.54
46:HN:119:VAL:HA	46:HN:122:LYS:HE2	1.90	0.54
46:IH:105:HIS:CE1	46:IH:150:LEU:HD12	2.42	0.54
45:IK:226:ASN:ND2	45:IK:367:ASP:OD2	2.41	0.54
46:IL:218:THR:HG23	46:IL:219:THR:HG23	1.89	0.54
46:IN:29:GLY:HA3	46:IN:43:GLN:NE2	2.22	0.54
45:JA:215:ARG:NH2	45:JA:300:ASN:HA	2.21	0.54
45:JC:339:ARG:HA	45:JC:339:ARG:NH1	2.22	0.54
45:JI:251:ASP:OD1	45:JI:252:ILE:N	2.41	0.54
45:JM:222:PRO:HD2	46:JN:324:LYS:HD3	1.90	0.54
46:KD:73:MET:HA	46:KD:76:VAL:HG12	1.90	0.54
45:KE:166:LYS:N	45:KE:199:ASP:OD1	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:271:SER:OG	45:KE:301:MET:SD	2.65	0.54
45:KI:60:LYS:NZ	45:KI:85:GLN:O	2.25	0.54
46:KJ:45:GLU:HG3	46:KJ:46:ARG:HH11	1.72	0.54
45:KM:255:PHE:O	45:KM:259:LEU:HB2	2.08	0.54
45:LI:398:MET:HG3	46:LJ:345:ILE:HG22	1.90	0.54
46:MD:64:ILE:HD13	46:MD:119:VAL:HG13	1.90	0.54
46:ND:130:LEU:HD11	46:ND:133:PHE:HE1	1.73	0.54
46:ND:186:THR:HG23	46:ND:415:MET:SD	2.47	0.54
45:NG:48:ALA:HB1	45:NG:243:ARG:HB2	1.90	0.54
45:NG:326:LYS:HG3	45:NG:327:ASP:N	2.22	0.54
45:NG:333:ALA:HA	45:NG:336:LYS:HZ1	1.73	0.54
46:OB:293:MET:HE1	46:OB:365:VAL:HG21	1.90	0.54
45:OC:3:GLU:HG2	45:OC:132:LEU:HA	1.90	0.54
46:OD:156:ARG:NH1	46:OD:195:ASN:O	2.41	0.54
46:OJ:68:LEU:HD13	46:OJ:93:GLY:HA3	1.89	0.54
46:OL:148:GLY:O	46:OL:152:ILE:HG12	2.08	0.54
46:PF:45:GLU:OE2	46:PF:46:ARG:HG2	2.07	0.54
45:PG:75:ILE:HD12	45:PG:92:LEU:HB3	1.89	0.54
46:QJ:166:THR:OG1	46:QJ:199:CYS:SG	2.57	0.54
45:RA:76:ASP:OD1	45:RA:79:ARG:NH2	2.41	0.54
46:RB:284:LEU:HD11	46:RB:362:LYS:HD2	1.90	0.54
45:RG:326:LYS:HD3	46:RH:220:PRO:HD2	1.89	0.54
46:RH:139:LEU:HD22	46:RH:170:VAL:HG12	1.89	0.54
46:SB:86:ARG:HD2	46:SB:87:PRO:HD2	1.90	0.54
45:SE:68:LEU:HD13	45:SE:93:ILE:HB	1.89	0.54
45:SG:244:PHE:HB2	45:SG:356:ASN:HD21	1.72	0.54
45:SK:74:VAL:O	45:SK:78:VAL:HG23	2.07	0.54
45:SM:68:LEU:HD13	45:SM:93:ILE:HB	1.90	0.54
45:TE:5:ILE:HB	45:TE:135:PHE:CD1	2.43	0.54
45:TM:238:LEU:HD21	45:TM:378:ILE:HD11	1.90	0.54
45:UC:5:ILE:HD13	45:UC:135:PHE:HE1	1.72	0.54
46:UD:7:ILE:HD13	46:UD:151:LEU:HD11	1.90	0.54
45:UE:391:LEU:HA	45:UE:394:LYS:HZ3	1.73	0.54
45:UM:208:ALA:N	45:UM:304:LYS:HD3	2.22	0.54
45:VC:203:MET:HE3	45:VC:203:MET:HA	1.90	0.54
46:VD:222:TYR:HA	46:VD:225:LEU:HG	1.90	0.54
46:WF:174:LYS:H	46:WF:174:LYS:HZ3	1.55	0.54
45:WG:222:PRO:HG2	46:WH:324:LYS:NZ	2.23	0.54
46:WL:32:PRO:O	46:WL:83:GLN:NE2	2.37	0.54
45:CE:117:LEU:O	45:CE:121:ARG:HG2	2.08	0.54
4:0D:225:ARG:NH1	34:7R:566:PHE:HB2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0N:247:GLN:N	45:KK:46:ASP:OD2	2.40	0.54
37:5F:72:ASP:O	37:5F:104:MET:N	2.41	0.54
37:5F:188:GLN:OE1	37:5F:192:ASN:ND2	2.39	0.54
34:5R:278:TYR:CD1	34:5R:285:THR:HB	2.43	0.54
34:7R:210:GLU:O	34:7R:214:THR:HG23	2.08	0.54
34:7R:251:ASN:HA	34:7R:254:LYS:HD2	1.90	0.54
46:AL:9:GLY:HA3	46:AL:66:MET:SD	2.48	0.54
45:BC:209:ILE:HA	45:BC:212:ILE:HG22	1.89	0.54
45:BG:105:ARG:NE	45:BG:411:GLU:OE1	2.40	0.54
45:BG:284:GLU:HG3	45:BG:286:LEU:HD22	1.88	0.54
46:BJ:117:LEU:HA	46:BJ:120:VAL:HG12	1.89	0.54
45:BK:331:SER:O	45:BK:335:ILE:HG12	2.07	0.54
45:CA:270:SER:HB3	45:CA:378:ILE:HD13	1.90	0.54
45:CC:287:SER:HB3	45:CC:290:GLU:HG2	1.89	0.54
46:CD:390:ARG:HE	46:CD:391:ARG:HG2	1.72	0.54
46:CJ:229:VAL:O	46:CJ:233:MET:HG2	2.08	0.54
45:CK:22:GLU:HG3	45:CK:83:TYR:OH	2.08	0.54
45:CK:98:ASP:OD1	45:CK:99:ALA:N	2.41	0.54
45:CK:284:GLU:HG2	45:CK:286:LEU:HD22	1.90	0.54
45:CK:419:SER:O	45:CK:423:GLU:HG2	2.08	0.54
46:DH:209:ASP:HB3	46:DH:213:ARG:NH1	2.23	0.54
45:EI:326:LYS:HG2	46:EJ:220:PRO:HD2	1.89	0.54
45:FC:88:HIS:HB3	45:FC:91:GLN:HG3	1.90	0.54
45:FK:141:VAL:HG21	45:FK:172:TYR:CD1	2.43	0.54
45:GA:121:ARG:HA	45:GA:124:LYS:HZ2	1.73	0.54
46:GB:16:ILE:HD12	46:GB:229:VAL:HG11	1.90	0.54
46:GH:3:GLU:HG3	46:GH:62:ARG:NH1	2.23	0.54
46:HJ:103:LYS:NZ	46:HJ:401:GLU:OE2	2.41	0.54
46:IF:6:HIS:O	46:IF:63:ALA:HA	2.08	0.54
45:IG:18:ASN:O	45:IG:22:GLU:HG3	2.08	0.54
45:IG:280:LYS:HE3	45:IG:283:HIS:ND1	2.23	0.54
46:JJ:11:GLN:HA	46:JJ:72:THR:HG21	1.89	0.54
46:JJ:119:VAL:HA	46:JJ:122:LYS:HG2	1.89	0.54
45:KA:75:ILE:HG21	45:KA:94:SER:HB3	1.90	0.54
46:KJ:316:LEU:HD13	46:KJ:352:SER:HB2	1.89	0.54
45:KK:300:ASN:O	45:KK:300:ASN:ND2	2.40	0.54
45:KM:392:ASP:HA	45:KM:422:ARG:NH2	2.23	0.54
46:LD:372:THR:HA	46:LD:422:TYR:CE2	2.43	0.54
46:MB:372:THR:HG21	46:MB:426:GLN:HB2	1.89	0.54
46:MH:101:TRP:HB2	46:MH:184:ASN:HB3	1.89	0.54
46:MJ:268:ILE:HG22	46:MJ:368:VAL:HG22	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MK:171:ILE:HG13	45:MK:204:LEU:HB2	1.90	0.54
46:ML:3:GLU:HG3	46:ML:62:ARG:NH1	2.22	0.54
45:NA:118:CYS:O	45:NA:122:ILE:HG12	2.08	0.54
46:ND:83:GLN:O	46:OD:281:TYR:OH	2.12	0.54
45:NG:112:LYS:HA	45:NG:115:VAL:HG22	1.90	0.54
46:NN:233:MET:O	46:NN:236:VAL:HG12	2.08	0.54
45:OA:10:GLY:O	45:OA:14:ILE:HG12	2.07	0.54
45:OG:4:VAL:HG11	45:OG:136:LEU:HD23	1.90	0.54
46:ON:230:SER:HA	46:ON:233:MET:HG2	1.90	0.54
45:PA:14:ILE:HG13	45:PA:67:PHE:CE1	2.43	0.54
46:PH:344:TRP:CE3	46:PH:345:ILE:HG23	2.42	0.54
46:PJ:74:ASP:HA	46:PJ:77:ARG:HE	1.73	0.54
46:PL:139:LEU:HD12	46:PL:170:VAL:HG12	1.89	0.54
45:QE:292:THR:HG21	45:QE:331:SER:HB2	1.90	0.54
46:QF:67:ASP:OD1	46:QF:68:LEU:N	2.41	0.54
45:RA:346:TRP:HZ2	45:RA:439:THR:HB	1.73	0.54
46:RD:99:ASN:HA	46:RD:142:GLY:H	1.73	0.54
46:RH:19:LYS:O	46:RH:22:GLU:HG3	2.07	0.54
46:RH:375:GLN:OE1	46:RH:379:LYS:NZ	2.40	0.54
46:SJ:46:ARG:HH12	45:SK:73:THR:HG23	1.72	0.54
45:TE:286:LEU:O	45:TE:373:ARG:NH1	2.37	0.54
46:TF:318:ARG:HB3	46:TF:357:PRO:HA	1.88	0.54
45:TG:132:LEU:O	45:TG:164:LYS:NZ	2.32	0.54
45:TI:120:ASP:HB3	45:TI:124:LYS:NZ	2.23	0.54
46:TN:318:ARG:HB3	46:TN:357:PRO:HA	1.90	0.54
46:UB:6:HIS:NE2	46:UB:8:GLN:OE1	2.41	0.54
46:UB:210:ILE:HA	46:UB:297:LYS:HZ1	1.72	0.54
46:UJ:207:LEU:HB3	46:UJ:225:LEU:HD22	1.90	0.54
46:VD:67:ASP:OD1	46:VD:68:LEU:N	2.38	0.54
45:VG:111:GLY:O	45:VG:115:VAL:HG13	2.07	0.54
46:VJ:186:THR:HA	46:VJ:189:VAL:HG12	1.88	0.54
46:VL:172:SER:OG	46:VL:205:GLU:OE1	2.20	0.54
45:WA:180:ALA:HA	46:WB:350:LYS:NZ	2.20	0.54
46:WB:222:TYR:HA	46:WB:225:LEU:HG	1.90	0.54
46:WD:350:LYS:HD3	46:WD:351:SER:N	2.23	0.54
45:WE:88:HIS:HB3	45:WE:91:GLN:HG2	1.89	0.54
46:WF:52:ASN:OD1	46:WF:62:ARG:NH2	2.40	0.54
46:WH:86:ARG:NH2	46:WH:89:ASN:OD1	2.40	0.54
45:WI:419:SER:O	45:WI:423:GLU:HG2	2.08	0.54
45:CE:138:PHE:HE1	45:CE:169:PHE:CD2	2.26	0.54
45:DC:260:VAL:HG23	45:DC:265:ILE:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4R:319:PRO:HG3	46:CF:228:LEU:HD22	1.90	0.53
37:5E:146:PHE:HA	37:5E:149:ARG:HG2	1.89	0.53
35:5S:160:THR:O	35:5S:164:LYS:HG2	2.09	0.53
40:6G:281:THR:H	40:6G:284:LYS:HZ3	1.54	0.53
10:6Q:57:ASN:HB2	10:6Q:158:ALA:HB2	1.89	0.53
45:AA:75:ILE:HG21	45:AA:94:SER:HB2	1.90	0.53
45:AA:140:SER:OG	47:AA:501:GTP:O2B	2.25	0.53
46:BF:248:SER:HA	46:BF:252:LYS:HG3	1.90	0.53
46:CB:74:ASP:OD1	46:CB:77:ARG:NE	2.35	0.53
45:DA:215:ARG:NH2	45:DA:299:ALA:O	2.41	0.53
46:DD:105:HIS:CD2	46:DD:150:LEU:HB2	2.44	0.53
45:DE:272:TYR:HD2	45:DE:275:ILE:HD11	1.73	0.53
46:DF:72:THR:OG1	46:DF:73:MET:SD	2.65	0.53
46:DH:294:PHE:CD1	46:DH:333:VAL:HG21	2.43	0.53
45:DI:319:TYR:HB3	45:DI:323:VAL:HG11	1.89	0.53
45:DM:262:TYR:HB3	45:DM:265:ILE:HG12	1.89	0.53
45:EG:67:PHE:HB2	45:EG:92:LEU:HD13	1.88	0.53
46:EL:376:GLU:HA	46:EL:379:LYS:HD2	1.90	0.53
45:EM:20:CYS:HA	45:EM:232:ALA:HB1	1.90	0.53
45:FC:15:GLN:NE2	47:FC:501:GTP:O6	2.42	0.53
45:FC:102:ASN:ND2	45:FC:407:TRP:O	2.33	0.53
46:FH:271:ALA:HB3	46:FH:365:VAL:HB	1.89	0.53
45:FK:97:GLU:HB2	45:FK:110:ILE:HD13	1.90	0.53
46:FL:293:MET:HE3	46:FL:367:PHE:HB2	1.90	0.53
46:FL:341:PHE:HD2	46:FL:348:ASN:HD21	1.56	0.53
45:GA:230:LEU:O	45:GA:234:VAL:HG23	2.08	0.53
46:GB:49:VAL:HG11	46:GB:241:ARG:HG2	1.90	0.53
46:GD:31:ASP:OD1	46:GD:35:THR:N	2.35	0.53
45:GG:21:TRP:CZ2	45:GG:65:ALA:HB2	2.43	0.53
46:GN:73:MET:HA	46:GN:76:VAL:HG12	1.90	0.53
45:HA:9:VAL:HG22	45:HA:68:LEU:HB2	1.90	0.53
45:HI:201:ALA:HB3	45:HI:267:PHE:HD1	1.73	0.53
45:HK:223:THR:HA	46:HL:322:SER:HB2	1.90	0.53
45:IA:214:ARG:HH21	45:IA:215:ARG:HB2	1.73	0.53
45:IA:326:LYS:HE3	46:ID:208:TYR:CE2	2.43	0.53
45:IA:352:LYS:HZ1	46:ID:179:VAL:N	2.06	0.53
46:IB:325:GLU:C	46:IB:329:GLN:HE21	2.11	0.53
45:IE:332:ILE:HD11	45:IE:351:PHE:CG	2.43	0.53
46:IH:3:GLU:OE1	46:IH:62:ARG:HD2	2.07	0.53
45:JC:76:ASP:HA	45:JC:79:ARG:HD2	1.90	0.53
45:JE:288:VAL:HG11	45:JE:327:ASP:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KD:292:GLN:HG2	46:KD:298:ASN:ND2	2.23	0.53
45:KG:105:ARG:HG2	45:KG:411:GLU:HG2	1.90	0.53
46:KN:139:LEU:HD13	46:KN:168:SER:HB3	1.90	0.53
45:LA:68:LEU:HD23	45:LA:93:ILE:HB	1.90	0.53
46:LL:200:MET:HE2	46:LL:268:ILE:HD13	1.90	0.53
46:LN:63:ALA:O	46:LN:89:ASN:ND2	2.41	0.53
46:LN:132:GLY:HA3	46:LN:163:ILE:HG22	1.89	0.53
46:MB:118:ASP:O	46:MB:121:ARG:HG2	2.08	0.53
46:MF:5:VAL:HG12	46:MF:62:ARG:HD2	1.90	0.53
46:MJ:104:GLY:HA3	46:MJ:143:THR:HA	1.89	0.53
46:ML:73:MET:HE1	46:ML:92:PHE:HB3	1.90	0.53
45:NA:326:LYS:HE2	46:ND:208:TYR:CD2	2.44	0.53
46:ND:313:ALA:HB1	46:ND:367:PHE:HE1	1.73	0.53
45:NG:118:CYS:O	45:NG:122:ILE:HG12	2.08	0.53
45:NG:121:ARG:HA	45:NG:124:LYS:HG2	1.90	0.53
46:NH:222:TYR:O	46:NH:226:ASN:ND2	2.30	0.53
46:NL:272:PRO:HG3	46:NL:284:LEU:HG	1.90	0.53
45:OE:27:GLU:HG3	45:OE:361:THR:HG21	1.90	0.53
45:OI:352:LYS:HE2	46:OL:178:THR:HA	1.89	0.53
45:PA:221:ARG:NH2	46:PB:321:MET:HB2	2.22	0.53
45:PC:147:SER:HB2	45:PC:190:SER:HB3	1.90	0.53
46:PD:51:TYR:HB3	46:PD:59:TYR:HB3	1.90	0.53
46:PD:119:VAL:HG13	46:PD:122:LYS:HZ3	1.73	0.53
45:PG:326:LYS:HG3	45:PG:327:ASP:N	2.23	0.53
45:PK:399:TYR:O	45:PK:402:ARG:NH1	2.40	0.53
46:PL:183:TYR:HE2	46:PL:394:PHE:HB2	1.72	0.53
45:PM:229:ARG:O	45:PM:233:GLN:NE2	2.40	0.53
46:QB:150:LEU:HB2	46:QB:154:LYS:HZ3	1.73	0.53
45:QC:69:ASP:O	45:QC:94:SER:HA	2.08	0.53
46:QD:52:ASN:OD1	46:QD:62:ARG:NH2	2.41	0.53
46:QD:292:GLN:HE21	46:QD:298:ASN:ND2	2.06	0.53
46:QF:284:LEU:HD21	46:QF:362:LYS:HE2	1.90	0.53
45:QI:97:GLU:HG2	45:QI:105:ARG:HH22	1.73	0.53
46:QJ:289:LEU:HD13	46:QJ:365:VAL:HG23	1.89	0.53
46:RF:213:ARG:NE	46:RF:213:ARG:HA	2.23	0.53
46:RF:238:CYS:SG	46:RF:239:CYS:N	2.81	0.53
45:RG:7:ILE:HB	45:RG:137:VAL:HG12	1.90	0.53
46:RH:12:CYS:O	46:RH:16:ILE:HG12	2.08	0.53
45:RI:76:ASP:HA	45:RI:79:ARG:NH1	2.22	0.53
45:RI:276:ILE:HG23	45:RI:280:LYS:NZ	2.23	0.53
45:RI:319:TYR:HE2	45:RI:328:VAL:HG13	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RK:254:GLU:OE2	45:RK:258:ASN:ND2	2.41	0.53
46:RL:392:LYS:HA	46:RL:395:LEU:HD12	1.89	0.53
45:SM:328:VAL:HG11	45:SM:353:VAL:HG21	1.90	0.53
46:TB:178:THR:HB	46:TB:181:GLU:HG3	1.89	0.53
45:TE:226:ASN:ND2	45:TE:367:ASP:OD2	2.41	0.53
45:TE:402:ARG:HH12	45:TE:406:HIS:N	2.05	0.53
46:TH:3:GLU:HG3	46:TH:49:VAL:HA	1.89	0.53
46:TH:73:MET:HA	46:TH:76:VAL:HG22	1.88	0.53
46:TJ:58:ARG:NH2	46:UJ:280:GLN:OE1	2.41	0.53
46:TJ:293:MET:SD	46:TJ:365:VAL:HG11	2.48	0.53
46:TL:25:SER:HG	46:TL:51:TYR:HH	1.54	0.53
45:TM:406:HIS:HA	45:TM:409:VAL:HG22	1.89	0.53
46:UH:318:ARG:HB3	46:UH:357:PRO:HA	1.90	0.53
46:UJ:10:GLY:O	46:UJ:14:ASN:ND2	2.41	0.53
46:UJ:153:SER:HA	46:UJ:195:ASN:HD22	1.72	0.53
46:UL:190:HIS:CD2	46:UL:411:ALA:HA	2.44	0.53
45:VA:113:GLU:HG2	45:VA:114:ILE:HD12	1.90	0.53
45:VC:352:LYS:HZ2	46:VF:178:THR:HG23	1.72	0.53
46:VD:178:THR:HG22	46:VD:180:VAL:H	1.73	0.53
46:WF:266:PHE:CE1	46:WF:370:ASN:HB2	2.44	0.53
45:WG:104:ALA:HB2	45:WG:413:MET:HG2	1.90	0.53
45:WK:195:LEU:HG	45:WK:264:ARG:NH2	2.23	0.53
45:DC:430:LYS:HA	45:DC:433:GLU:CD	2.29	0.53
16:2B:63:GLN:HE22	45:LK:84:ARG:NE	2.04	0.53
21:2L:575:LYS:NZ	45:AM:85:GLN:HG2	2.22	0.53
11:2S:97:ARG:HH12	46:MJ:262:ARG:NH1	2.06	0.53
15:4X:38:ILE:HG13	15:4X:41:GLN:HE21	1.73	0.53
15:4X:85:GLU:O	15:4X:89:ASN:ND2	2.41	0.53
37:5E:74:ASP:HB3	37:5E:77:LYS:HG2	1.89	0.53
37:5G:33:TYR:HB3	45:NG:85:GLN:HE22	1.73	0.53
34:5R:206:ASN:ND2	34:5R:210:GLU:OE1	2.41	0.53
34:6R:397:SER:HB3	46:EN:276:ARG:HH21	1.74	0.53
45:AM:118:CYS:O	45:AM:122:ILE:HG12	2.07	0.53
46:AN:290:THR:HA	46:AN:293:MET:HG2	1.90	0.53
45:BC:167:LEU:HG	45:BC:200:VAL:HB	1.89	0.53
45:BC:205:ASP:OD2	45:BC:303:ALA:HA	2.09	0.53
46:BD:132:GLY:HA3	46:BD:163:ILE:O	2.08	0.53
45:BI:174:SER:HB2	45:BI:177:VAL:O	2.08	0.53
46:CH:224:ASP:O	46:CH:228:LEU:HD12	2.08	0.53
46:CH:232:ALA:HB1	46:CH:268:ILE:HD12	1.89	0.53
46:CJ:309:ARG:NH2	46:CJ:426:GLN:O	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CK:208:ALA:O	45:CK:212:ILE:HG12	2.08	0.53
46:DD:203:ASP:OD2	46:DD:205:GLU:HB2	2.08	0.53
46:DD:258:ILE:HD11	45:DE:407:TRP:HZ2	1.73	0.53
45:DE:141:VAL:HG12	45:DE:171:ILE:O	2.09	0.53
46:DH:99:ASN:OD1	46:DH:142:GLY:N	2.41	0.53
46:DJ:324:LYS:NZ	45:DK:210:TYR:HB3	2.24	0.53
46:EB:178:THR:HB	46:EB:181:GLU:HG3	1.91	0.53
46:ED:201:VAL:HG13	46:ED:301:CYS:SG	2.48	0.53
46:EN:282:ARG:NH2	46:EN:292:GLN:OE1	2.42	0.53
45:FA:15:GLN:NE2	47:FA:501:GTP:O6	2.41	0.53
45:FA:119:LEU:HA	45:FA:122:ILE:HG12	1.90	0.53
45:FC:267:PHE:HD2	45:FC:388:PHE:HZ	1.54	0.53
45:FE:11:GLN:NE2	46:FF:247:ASN:OD1	2.41	0.53
45:FG:224:TYR:HE2	46:FH:246:LEU:HD11	1.72	0.53
46:FJ:294:PHE:HD1	46:FJ:333:VAL:HG11	1.73	0.53
46:FN:6:HIS:O	46:FN:63:ALA:HA	2.08	0.53
46:GB:3:GLU:HA	46:GB:49:VAL:HG23	1.90	0.53
46:HB:226:ASN:HD21	49:HB:501:GDP:HN1	1.55	0.53
45:HM:284:GLU:HG3	45:HM:286:LEU:HD22	1.90	0.53
45:IM:55:GLU:HG2	45:IM:61:HIS:CE1	2.43	0.53
45:JE:328:VAL:O	45:JE:332:ILE:HD12	2.08	0.53
46:JF:186:THR:HA	46:JF:189:VAL:HG12	1.88	0.53
45:JG:102:ASN:ND2	45:JG:105:ARG:HG3	2.23	0.53
45:JI:133:GLN:HB3	45:JI:252:ILE:HD11	1.90	0.53
45:JK:17:GLY:HA2	45:JK:20:CYS:SG	2.48	0.53
45:KA:177:VAL:HB	46:KB:331:LEU:HD11	1.89	0.53
46:KD:45:GLU:OE2	46:KD:46:ARG:NH1	2.41	0.53
45:KE:76:ASP:HA	45:KE:79:ARG:HG2	1.90	0.53
46:KL:128:ASP:OD1	46:KL:129:CYS:N	2.41	0.53
45:LE:141:VAL:HG12	45:LE:171:ILE:O	2.08	0.53
46:LH:187:LEU:HD11	46:LH:408:PHE:HE1	1.73	0.53
46:LJ:19:LYS:NZ	46:LJ:227:HIS:HB2	2.23	0.53
45:LK:269:LEU:HD23	45:LK:384:ILE:HD11	1.89	0.53
46:LN:289:LEU:HD11	46:LN:363:MET:HG3	1.91	0.53
46:LN:334:GLN:NE2	46:LN:348:ASN:OD1	2.42	0.53
46:LN:334:GLN:HE22	46:LN:348:ASN:H	1.56	0.53
45:MC:69:ASP:OD2	45:MC:70:LEU:N	2.41	0.53
45:MK:262:TYR:OH	46:MN:391:ARG:O	2.26	0.53
45:MK:271:SER:HB2	45:MK:377:MET:HB3	1.90	0.53
45:MM:183:GLU:OE1	45:MM:183:GLU:N	2.34	0.53
46:MN:222:TYR:O	46:MN:226:ASN:ND2	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NA:75:ILE:HG22	45:NA:79:ARG:NH1	2.23	0.53
46:NB:2:ARG:N	46:NB:129:CYS:SG	2.72	0.53
46:NH:345:ILE:HG22	46:NH:348:ASN:HB3	1.91	0.53
46:NJ:213:ARG:NH2	46:NJ:297:LYS:HB3	2.22	0.53
46:NJ:242:PHE:HB3	46:NJ:356:ILE:HD13	1.90	0.53
45:NM:49:PHE:HB2	45:NM:53:PHE:HB2	1.90	0.53
45:OI:221:ARG:HH22	46:OJ:321:MET:HA	1.72	0.53
45:OI:311:LYS:N	45:OI:382:THR:OG1	2.41	0.53
45:OK:212:ILE:HD11	45:OK:300:ASN:HA	1.90	0.53
46:PF:318:ARG:HB3	46:PF:357:PRO:HA	1.90	0.53
45:PI:141:VAL:HG11	45:PI:172:TYR:HD1	1.73	0.53
46:PN:86:ARG:HE	46:PN:87:PRO:HD2	1.74	0.53
46:QB:344:TRP:HB3	46:QB:430:ALA:HB2	1.89	0.53
45:QG:155:GLU:HA	45:QG:197:HIS:CE1	2.42	0.53
46:QH:375:GLN:OE1	46:QH:379:LYS:NZ	2.40	0.53
46:QJ:390:ARG:HD2	46:QJ:391:ARG:HG2	1.90	0.53
45:RG:280:LYS:HZ2	45:RG:283:HIS:HB2	1.74	0.53
46:RJ:217:LEU:HD23	46:RJ:219:THR:H	1.73	0.53
46:RL:235:GLY:HA3	46:RL:366:THR:HG21	1.90	0.53
45:RM:69:ASP:O	45:RM:94:SER:HA	2.07	0.53
46:TH:309:ARG:NH2	46:TH:426:GLN:O	2.33	0.53
46:TJ:27:GLU:OE2	46:TJ:241:ARG:NH2	2.37	0.53
46:TJ:318:ARG:HH21	46:TJ:357:PRO:C	2.12	0.53
46:TL:139:LEU:HD22	46:TL:170:VAL:HG12	1.89	0.53
46:TL:327:ASP:OD1	46:TL:328:GLU:N	2.41	0.53
46:UB:324:LYS:HZ1	45:UC:221:ARG:HH11	1.54	0.53
46:UF:131:GLN:HE22	46:UF:240:LEU:HD11	1.72	0.53
45:UK:188:ILE:HD11	45:UK:391:LEU:HB3	1.90	0.53
46:UL:254:ALA:O	46:UL:258:ILE:HG22	2.08	0.53
45:UM:292:THR:HG21	45:UM:331:SER:HB3	1.90	0.53
45:VA:75:ILE:HG21	45:VA:92:LEU:HB3	1.90	0.53
46:VD:186:THR:HA	46:VD:189:VAL:HG12	1.89	0.53
46:VF:267:MET:HE3	46:VF:301:CYS:HB2	1.90	0.53
46:VL:86:ARG:HA	46:VL:86:ARG:NH1	2.23	0.53
46:VN:119:VAL:O	46:VN:123:GLU:HG2	2.08	0.53
46:WB:9:GLY:HA2	46:WB:66:MET:O	2.08	0.53
46:WD:149:THR:HA	46:WD:152:ILE:HD12	1.91	0.53
46:WD:406:MET:O	46:WD:410:GLU:HG2	2.08	0.53
45:WI:150:GLY:O	45:WI:154:LEU:HD23	2.09	0.53
45:WI:248:LEU:HD12	45:WI:355:ILE:HD12	1.89	0.53
45:WI:396:ASP:OD1	45:WI:422:ARG:NH1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WJ:153:SER:HB3	46:WJ:154:LYS:NZ	2.23	0.53
45:WM:100:ALA:HB1	46:WN:252:LYS:HA	1.89	0.53
46:WN:376:GLU:N	46:WN:376:GLU:OE1	2.41	0.53
45:DC:88:HIS:CE1	45:DC:90:GLU:HG2	2.43	0.53
14:0V:46:PRO:HG3	45:LM:95:GLY:HA2	1.90	0.53
18:1I:9:GLU:OE2	46:JD:219:THR:OG1	2.24	0.53
19:1J:209:GLU:OE2	46:IJ:217:LEU:HD12	2.07	0.53
23:1O:133:MET:SD	46:UF:80:PRO:HB3	2.47	0.53
27:2C:232:PHE:CZ	46:JJ:53:GLU:HB3	2.44	0.53
25:2R:312:GLN:NE2	46:CH:361:LEU:HG	2.23	0.53
15:2X:70:TYR:CE1	46:MJ:362:LYS:HG2	2.42	0.53
14:3V:137:ASN:ND2	46:LD:425:TYR:OH	2.35	0.53
35:4S:209:ARG:NH2	46:WD:119:VAL:HG13	2.11	0.53
37:5E:80:LYS:HE2	45:KA:401:LYS:HA	1.90	0.53
34:5R:553:ILE:HG13	34:5R:606:PHE:HE1	1.73	0.53
46:AB:245:GLN:HB2	46:AB:353:ILE:HB	1.90	0.53
46:AJ:69:GLU:CD	46:AJ:71:GLY:H	2.11	0.53
45:AM:224:TYR:HE2	46:AN:246:LEU:HD11	1.72	0.53
45:BG:209:ILE:HG23	45:BG:230:LEU:HD23	1.90	0.53
45:BI:284:GLU:HG2	45:BI:286:LEU:HD22	1.90	0.53
46:BN:91:VAL:HG21	46:BN:116:VAL:HB	1.89	0.53
46:BN:235:GLY:HA2	46:BN:318:ARG:NH2	2.24	0.53
46:CF:86:ARG:NH2	46:DF:281:TYR:CE1	2.76	0.53
46:CH:73:MET:HB2	46:CH:90:PHE:CE1	2.43	0.53
45:DG:35:GLN:OE1	45:DG:36:MET:N	2.41	0.53
45:DG:346:TRP:CD1	46:DH:391:ARG:HG3	2.44	0.53
46:DJ:48:ASN:O	46:DJ:62:ARG:NH1	2.41	0.53
46:DL:375:GLN:HG2	46:DL:379:LYS:NZ	2.23	0.53
45:EC:338:LYS:HZ2	45:EC:340:THR:H	1.55	0.53
45:EG:172:TYR:OH	45:EG:191:THR:OG1	2.23	0.53
45:EG:352:LYS:HD2	46:EH:177:ASP:O	2.08	0.53
46:EH:204:ASN:OD1	49:EH:501:GDP:O2'	2.24	0.53
46:EH:294:PHE:HD1	46:EH:333:VAL:HG21	1.73	0.53
46:EJ:167:PHE:CZ	46:EJ:233:MET:HG3	2.43	0.53
45:EK:204:LEU:HD12	45:EK:231:ILE:HD12	1.90	0.53
46:EL:6:HIS:O	46:EL:63:ALA:HA	2.08	0.53
46:EN:237:THR:HG23	46:EN:241:ARG:HH21	1.73	0.53
45:FA:88:HIS:CE1	45:FA:90:GLU:HG2	2.43	0.53
46:FD:118:ASP:HB3	46:FD:122:LYS:NZ	2.23	0.53
46:FF:207:LEU:HB3	46:FF:225:LEU:HD22	1.91	0.53
45:FG:155:GLU:OE2	45:FG:197:HIS:NE2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FN:137:HIS:HE1	46:FN:139:LEU:HD21	1.72	0.53
46:FN:215:LEU:HD21	46:FN:273:LEU:HD12	1.90	0.53
46:GB:178:THR:HB	46:GB:181:GLU:HG3	1.90	0.53
45:GM:288:VAL:HG11	45:GM:327:ASP:HB3	1.90	0.53
45:HA:10:GLY:O	45:HA:14:ILE:HG12	2.09	0.53
45:HC:195:LEU:O	45:HC:266:HIS:NE2	2.39	0.53
45:HC:210:TYR:HE1	45:HC:227:LEU:HD11	1.73	0.53
46:HF:163:ILE:HD12	46:HF:250:LEU:HD11	1.90	0.53
46:HF:257:LEU:HD11	46:HF:314:SER:HB2	1.91	0.53
46:HL:175:VAL:HG22	46:HL:205:GLU:HG3	1.91	0.53
45:HM:122:ILE:HD13	45:HM:157:LEU:HD21	1.89	0.53
45:IC:60:LYS:NZ	45:IC:85:GLN:O	2.41	0.53
46:JD:156:ARG:NH2	46:JD:197:ASP:OD1	2.42	0.53
45:JG:76:ASP:HA	45:JG:79:ARG:HD2	1.89	0.53
46:JH:341:PHE:HB3	46:JH:348:ASN:HD21	1.73	0.53
45:JK:181:VAL:HG13	45:JK:182:VAL:HG13	1.90	0.53
45:JM:136:LEU:HD22	45:JM:169:PHE:HE2	1.71	0.53
45:KK:1:MET:SD	45:KK:1:MET:N	2.66	0.53
46:LF:86:ARG:HD2	46:MF:281:TYR:CD1	2.43	0.53
46:LH:215:LEU:HD11	46:LH:273:LEU:HB3	1.90	0.53
45:LI:346:TRP:CD1	46:LL:391:ARG:HG3	2.43	0.53
45:LM:174:SER:HB3	45:LM:207:GLU:OE2	2.09	0.53
46:MF:3:GLU:OE2	46:MF:127:CYS:HB2	2.08	0.53
45:MG:175:PRO:HB3	45:MG:390:ARG:HH21	1.73	0.53
45:MG:407:TRP:HE1	46:MH:258:ILE:HG13	1.72	0.53
45:NC:82:THR:HG23	45:NC:83:TYR:CD1	2.44	0.53
45:NI:224:TYR:HD1	45:NI:227:LEU:HD12	1.73	0.53
46:NJ:45:GLU:OE2	46:NJ:46:ARG:NH1	2.41	0.53
45:NK:372:MET:HG2	45:NK:373:ARG:HD3	1.89	0.53
45:NM:21:TRP:CZ2	45:NM:65:ALA:HB2	2.43	0.53
45:OA:348:PRO:HG2	46:OD:384:GLN:HE22	1.72	0.53
45:OC:221:ARG:HH22	46:OD:320:ARG:HH12	1.55	0.53
46:OF:101:TRP:CE3	46:OF:187:LEU:HD13	2.44	0.53
46:OH:318:ARG:HB3	46:OH:357:PRO:HA	1.90	0.53
45:PA:154:LEU:HD22	45:PA:166:LYS:HD3	1.89	0.53
46:PD:99:ASN:OD1	46:PD:142:GLY:N	2.41	0.53
45:PE:211:ASP:OD2	45:PE:215:ARG:NE	2.34	0.53
45:PI:293:ASN:O	45:PI:297:GLU:HG2	2.09	0.53
46:PN:175:VAL:HG12	46:PN:205:GLU:HB3	1.91	0.53
45:QI:335:ILE:HA	45:QI:338:LYS:HE2	1.90	0.53
45:QM:396:ASP:OD1	45:QM:397:LEU:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QN:226:ASN:HD21	49:QN:501:GDP:HN1	1.55	0.53
46:RB:221:THR:HG23	46:RB:224:ASP:H	1.72	0.53
46:RD:67:ASP:OD1	46:RD:68:LEU:N	2.41	0.53
46:RD:200:MET:SD	46:RD:266:PHE:HD2	2.31	0.53
46:RF:139:LEU:HD22	46:RF:170:VAL:HG22	1.90	0.53
45:RG:260:VAL:HG23	46:RH:397:TRP:HH2	1.73	0.53
45:RI:155:GLU:HG2	45:RI:197:HIS:CD2	2.44	0.53
45:RI:318:MET:HB3	45:RI:376:CYS:SG	2.48	0.53
46:RJ:145:SER:HB2	46:RJ:188:SER:HB3	1.89	0.53
46:SF:12:CYS:O	46:SF:16:ILE:HG12	2.08	0.53
46:SH:6:HIS:O	46:SH:63:ALA:HA	2.07	0.53
46:SJ:58:ARG:HH21	46:TJ:281:TYR:HD1	1.55	0.53
46:TF:293:MET:HE3	46:TF:367:PHE:HB2	1.91	0.53
46:TJ:21:TRP:CE3	46:TJ:24:ILE:HD11	2.43	0.53
46:TL:73:MET:HA	46:TL:76:VAL:HG12	1.89	0.53
46:TL:345:ILE:HA	45:TM:398:MET:HE1	1.90	0.53
46:TN:260:PHE:HB2	46:TN:263:LEU:HD13	1.90	0.53
45:UE:387:VAL:HG12	45:UE:390:ARG:HH21	1.73	0.53
45:UG:223:THR:HG23	45:UG:225:THR:H	1.73	0.53
45:VC:263:PRO:HD3	46:VF:396:HIS:CD2	2.43	0.53
46:VF:201:VAL:O	46:VF:202:ILE:HD13	2.09	0.53
45:VG:101:ASN:HA	45:VG:144:GLY:H	1.72	0.53
46:VH:190:HIS:CD2	46:VH:411:ALA:HA	2.42	0.53
46:VL:47:ILE:HG21	46:VL:59:TYR:CE1	2.44	0.53
45:WC:122:ILE:HD13	45:WC:125:LEU:HD21	1.90	0.53
45:WC:174:SER:HB2	45:WC:177:VAL:O	2.09	0.53
46:WD:19:LYS:HA	46:WD:22:GLU:HG3	1.90	0.53
46:WF:3:GLU:HB2	46:WF:127:CYS:SG	2.49	0.53
46:WF:209:ASP:OD1	46:WF:213:ARG:NE	2.39	0.53
4:0D:75:ASP:OD2	46:EB:361:LEU:HA	2.07	0.53
11:0S:111:LYS:HB2	46:MB:157:GLU:OE1	2.07	0.53
11:0S:277:GLN:HE22	46:WB:122:LYS:HE3	1.72	0.53
19:1J:175:HIS:CD2	46:HH:48:ASN:HB3	2.44	0.53
21:1L:658:ARG:HG3	46:BF:41:ASP:HB3	1.91	0.53
24:2P:380:ARG:HB3	45:TM:370:LYS:NZ	2.23	0.53
36:5D:89:TYR:CD2	45:NM:364:PRO:HB3	2.41	0.53
39:6F:123:TYR:O	39:6F:124:ARG:HB2	2.08	0.53
46:AD:68:LEU:HB2	46:AD:147:MET:HE3	1.91	0.53
46:AD:202:ILE:HD11	46:AD:268:ILE:HD11	1.91	0.53
45:AI:241:SER:OG	45:AI:250:VAL:O	2.19	0.53
46:BD:285:THR:HB	46:BD:287:PRO:HD2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BF:390:ARG:O	46:BF:392:LYS:NZ	2.42	0.53
45:BG:88:HIS:O	45:BG:91:GLN:HG2	2.09	0.53
45:BI:257:THR:HG22	46:BL:397:TRP:CZ3	2.43	0.53
46:BJ:232:ALA:HB1	46:BJ:268:ILE:HD12	1.91	0.53
46:CD:141:GLY:O	46:CD:145:SER:OG	2.22	0.53
46:CF:318:ARG:HH11	46:CF:358:PRO:HG3	1.73	0.53
45:CI:3:GLU:OE2	45:CI:131:GLY:N	2.40	0.53
46:CN:3:GLU:HG3	46:CN:62:ARG:NH1	2.23	0.53
45:DK:223:THR:HG23	45:DK:225:THR:H	1.73	0.53
46:EL:27:GLU:HA	46:EL:359:LYS:HD2	1.91	0.53
46:FB:32:PRO:O	46:FB:83:GLN:NE2	2.42	0.53
45:FC:280:LYS:HA	45:FC:283:HIS:CD2	2.33	0.53
46:FH:6:HIS:NE2	46:FH:8:GLN:OE1	2.41	0.53
46:FL:183:TYR:HE2	46:FL:388:MET:HB3	1.72	0.53
45:FM:141:VAL:HG11	45:FM:172:TYR:HD1	1.74	0.53
46:FN:116:VAL:HA	46:FN:119:VAL:HG12	1.91	0.53
45:HE:105:ARG:NH2	45:HE:411:GLU:OE2	2.41	0.53
45:HI:90:GLU:OE1	45:II:280:LYS:NZ	2.28	0.53
45:IA:195:LEU:HD21	45:IA:264:ARG:HH21	1.74	0.53
45:IA:241:SER:OG	45:IA:250:VAL:O	2.24	0.53
46:IN:186:THR:HA	46:IN:189:VAL:HG12	1.89	0.53
45:JA:345:ASP:OD1	45:JA:346:TRP:N	2.42	0.53
46:JD:141:GLY:O	46:JD:145:SER:OG	2.21	0.53
45:JK:34:GLY:HA3	45:JK:60:LYS:HG3	1.90	0.53
46:KD:239:CYS:SG	46:KD:247:ASN:HA	2.49	0.53
45:KM:7:ILE:HB	45:KM:137:VAL:HG12	1.90	0.53
46:LB:27:GLU:OE2	46:LB:318:ARG:NH2	2.31	0.53
45:ME:69:ASP:OD2	45:ME:70:LEU:N	2.41	0.53
45:NC:77:GLU:HA	45:NC:80:THR:HG22	1.90	0.53
46:ND:156:ARG:NH1	46:ND:195:ASN:HA	2.23	0.53
45:NE:79:ARG:O	45:NE:84:ARG:HG2	2.08	0.53
46:NF:289:LEU:HD13	46:NF:365:VAL:HG23	1.91	0.53
46:NF:386:THR:OG1	46:NF:390:ARG:NH2	2.41	0.53
45:NM:8:HIS:HB2	45:NM:67:PHE:HD1	1.71	0.53
45:OC:251:ASP:OD1	45:OC:252:ILE:N	2.41	0.53
46:OH:178:THR:HB	46:OH:181:GLU:HG2	1.90	0.53
45:OK:9:VAL:HG13	45:OK:139:ASN:HB3	1.90	0.53
45:OK:219:ILE:HG22	45:OK:222:PRO:HD3	1.90	0.53
46:PH:150:LEU:O	46:PH:154:LYS:HG2	2.08	0.53
46:QB:178:THR:HB	46:QB:181:GLU:HG3	1.91	0.53
45:QC:386:GLU:O	45:QC:390:ARG:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QE:296:PHE:HE2	45:QE:335:ILE:HG21	1.73	0.53
45:QG:206:ASN:OD1	47:QG:501:GTP:N2	2.38	0.53
45:QG:251:ASP:HB3	45:QG:253:THR:HG22	1.91	0.53
45:QG:349:THR:HG23	46:QH:179:VAL:HA	1.90	0.53
46:QH:48:ASN:O	46:QH:62:ARG:NH1	2.42	0.53
46:QH:285:THR:HG22	46:QH:287:PRO:HD2	1.89	0.53
46:QJ:70:PRO:HG3	46:QJ:92:PHE:HB2	1.91	0.53
45:QK:88:HIS:HE1	45:QK:90:GLU:HB2	1.72	0.53
45:QM:4:VAL:O	45:QM:64:ARG:NH1	2.41	0.53
46:RB:284:LEU:HD11	46:RB:362:LYS:HB2	1.90	0.53
46:RN:97:ALA:HA	46:RN:103:LYS:HG2	1.90	0.53
45:SE:206:ASN:OD1	47:SE:501:GTP:N2	2.41	0.53
45:SK:108:TYR:HA	45:SK:112:LYS:HE3	1.89	0.53
46:SN:226:ASN:HD21	49:SN:501:GDP:HN1	1.56	0.53
46:TD:282:ARG:NH2	46:TD:288:GLU:OE2	2.42	0.53
45:TE:422:ARG:NH2	45:TE:425:LEU:HD12	2.23	0.53
46:TF:200:MET:CE	46:TF:268:ILE:HD13	2.38	0.53
45:TG:88:HIS:HA	45:UG:283:HIS:CE1	2.43	0.53
45:TG:203:MET:HA	45:TG:203:MET:HE3	1.89	0.53
46:TL:324:LYS:HG2	45:TM:210:TYR:CE2	2.42	0.53
45:TM:35:GLN:HE22	45:TM:59:GLY:HA2	1.73	0.53
45:TM:55:GLU:HG3	45:TM:57:GLY:H	1.73	0.53
46:TN:372:THR:HA	46:TN:422:TYR:HE2	1.72	0.53
46:UN:318:ARG:HH22	46:UN:361:LEU:HB2	1.73	0.53
45:VA:174:SER:HB2	45:VA:177:VAL:O	2.07	0.53
45:VA:287:SER:O	45:VA:291:ILE:HG12	2.09	0.53
46:VB:207:LEU:HB3	46:VB:225:LEU:HD22	1.90	0.53
45:VC:21:TRP:CZ2	45:VC:65:ALA:HB2	2.43	0.53
46:VH:295:ASP:OD2	46:VH:297:LYS:HG2	2.07	0.53
46:VJ:12:CYS:O	46:VJ:16:ILE:HG12	2.09	0.53
46:VJ:164:MET:HE3	46:VJ:196:ALA:HA	1.90	0.53
45:VM:55:GLU:HG3	45:VM:57:GLY:H	1.72	0.53
46:VN:2:ARG:HA	46:VN:131:GLN:NE2	2.23	0.53
46:WH:406:MET:O	46:WH:410:GLU:HG2	2.09	0.53
46:WN:65:LEU:HD22	46:WN:90:PHE:CE1	2.42	0.53
19:1J:216:GLN:HB2	46:IJ:360:GLY:O	2.07	0.53
21:1L:894:ARG:HH12	45:CC:365:GLY:H	1.55	0.53
23:1O:271:ALA:HB3	45:UA:279:GLU:N	2.22	0.53
11:1S:26:ILE:HD11	45:WC:45:GLY:HA3	1.88	0.53
4:2D:212:ASN:ND2	34:5R:433:GLN:O	2.42	0.53
31:2I:78:PRO:HB3	45:GE:298:PRO:HD3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2L:750:ASN:HD21	46:BL:320:ARG:HH22	1.55	0.53
33:4F:222:HIS:NE2	46:HN:41:ASP:O	2.42	0.53
36:5B:82:ASP:HA	36:5B:85:ARG:HH12	1.72	0.53
37:5G:35:LEU:HD13	37:5G:36:PRO:HD2	1.91	0.53
39:6F:33:PRO:HG2	39:6F:66:ASN:HA	1.90	0.53
45:AC:414:GLU:CD	45:AC:416:GLY:H	2.12	0.53
46:AN:26:ASP:O	46:AN:359:LYS:NZ	2.28	0.53
46:AN:222:TYR:O	46:AN:226:ASN:ND2	2.30	0.53
45:BA:179:THR:HG22	46:BB:350:LYS:HZ1	1.72	0.53
45:BE:263:PRO:HD3	46:BH:396:HIS:NE2	2.24	0.53
46:BL:207:LEU:HB3	46:BL:225:LEU:HD22	1.89	0.53
45:BM:188:ILE:HG13	45:BM:425:LEU:HD11	1.90	0.53
46:CB:317:PHE:CD2	46:CB:365:VAL:HG22	2.43	0.53
45:CG:192:HIS:ND1	45:CG:424:ASP:OD2	2.42	0.53
45:DA:296:PHE:CE2	45:DA:335:ILE:HG13	2.43	0.53
46:DB:350:LYS:NZ	45:DC:180:ALA:HA	2.22	0.53
46:DD:54:ALA:HA	46:ED:283:ALA:HB2	1.90	0.53
45:DE:51:THR:HG21	45:DE:243:ARG:HB3	1.91	0.53
45:DG:36:MET:SD	45:DG:37:PRO:HD2	2.48	0.53
46:DJ:318:ARG:HH11	46:DJ:358:PRO:HG3	1.74	0.53
46:ED:378:PHE:HA	46:ED:381:VAL:HG12	1.90	0.53
46:EH:318:ARG:HH11	46:EH:358:PRO:HG3	1.74	0.53
45:EK:195:LEU:HD21	45:EK:428:LEU:HD21	1.90	0.53
45:EM:184:PRO:O	45:EM:188:ILE:HG12	2.08	0.53
45:EM:426:ALA:HB1	45:EM:430:LYS:NZ	2.24	0.53
46:FN:268:ILE:HD12	46:FN:270:PHE:HE2	1.72	0.53
46:GD:190:HIS:CD2	46:GD:411:ALA:HA	2.43	0.53
45:GG:276:ILE:HD11	45:GG:280:LYS:HG3	1.89	0.53
46:GJ:257:LEU:HD21	46:GJ:314:SER:HB2	1.91	0.53
45:HA:242:LEU:HD11	45:HA:252:ILE:HG12	1.89	0.53
46:HF:121:ARG:NH2	46:HF:158:GLU:OE2	2.34	0.53
45:HI:322:ASP:OD1	45:HI:373:ARG:NH1	2.42	0.53
46:HL:163:ILE:HD11	46:HL:251:ARG:HH11	1.74	0.53
46:HL:178:THR:HG22	46:HL:180:VAL:H	1.72	0.53
45:HM:88:HIS:O	45:HM:91:GLN:HG2	2.09	0.53
46:HN:118:ASP:HB3	46:HN:122:LYS:NZ	2.23	0.53
46:IB:86:ARG:NE	46:IB:87:PRO:HD2	2.19	0.53
46:IL:128:ASP:OD1	46:IL:129:CYS:N	2.41	0.53
45:JG:420:GLU:OE2	45:NG:308:ARG:NH1	2.32	0.53
46:JJ:150:LEU:O	46:JJ:154:LYS:HG2	2.08	0.53
45:JM:170:THR:O	45:JM:204:LEU:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KC:345:ASP:OD1	45:KC:346:TRP:N	2.41	0.53
45:KG:371:VAL:HG12	45:KG:373:ARG:H	1.72	0.53
46:KH:9:GLY:HA2	46:KH:66:MET:O	2.09	0.53
45:KK:210:TYR:HH	46:KL:323:THR:HG1	1.57	0.53
46:KL:108:GLU:HA	46:KL:111:GLU:OE2	2.08	0.53
46:KL:304:ASP:OD1	46:KL:306:ARG:NH1	2.41	0.53
45:KM:251:ASP:HB2	45:KM:253:THR:HG22	1.91	0.53
45:LA:220:GLU:O	46:LB:324:LYS:NZ	2.29	0.53
46:LF:5:VAL:HG12	46:LF:62:ARG:HD3	1.90	0.53
46:LH:20:PHE:HA	46:LH:230:SER:OG	2.07	0.53
45:ME:75:ILE:O	45:ME:79:ARG:HG2	2.09	0.53
46:MF:22:GLU:HG2	46:MF:81:PHE:HD2	1.74	0.53
45:MG:260:VAL:HB	46:MJ:397:TRP:CH2	2.43	0.53
45:MM:145:THR:HG22	47:MM:501:GTP:PG	2.49	0.53
46:NB:103:LYS:NZ	46:NB:401:GLU:OE2	2.41	0.53
46:NB:248:SER:HA	46:NB:252:LYS:HD2	1.91	0.53
45:NI:17:GLY:HA2	45:NI:20:CYS:SG	2.49	0.53
45:NK:335:ILE:HG22	45:NK:341:ILE:HD11	1.90	0.53
46:OB:329:GLN:HA	46:OB:332:ASN:HD21	1.72	0.53
46:OD:318:ARG:HG2	46:OD:357:PRO:HA	1.89	0.53
46:OJ:148:GLY:O	46:OJ:152:ILE:HG12	2.09	0.53
46:OJ:329:GLN:HA	46:OJ:332:ASN:HD21	1.73	0.53
46:ON:148:GLY:O	46:ON:152:ILE:HG12	2.09	0.53
45:PE:398:MET:HE3	46:PF:345:ILE:HA	1.90	0.53
45:PM:101:ASN:HA	45:PM:144:GLY:H	1.74	0.53
45:PM:394:LYS:NZ	46:PN:347:ASN:OD1	2.41	0.53
45:QA:316:SER:O	45:QA:378:ILE:HG22	2.09	0.53
45:QE:11:GLN:H	45:QE:11:GLN:CD	2.12	0.53
45:QE:36:MET:SD	45:QE:37:PRO:HD2	2.48	0.53
45:QG:311:LYS:HZ1	45:QG:343:PHE:C	2.11	0.53
45:QI:332:ILE:HA	45:QI:335:ILE:HG22	1.91	0.53
45:QK:231:ILE:O	45:QK:235:ILE:HG12	2.08	0.53
46:RD:262:ARG:HG3	46:RD:263:LEU:HD12	1.91	0.53
45:RG:85:GLN:H	45:RG:85:GLN:CD	2.12	0.53
45:RG:238:LEU:HD21	45:RG:255:PHE:HE2	1.74	0.53
45:RI:69:ASP:O	45:RI:94:SER:HA	2.07	0.53
45:RK:12:GLY:HA2	45:RK:15:GLN:HE21	1.73	0.53
45:RK:49:PHE:HB2	45:RK:53:PHE:HD1	1.74	0.53
45:SE:255:PHE:HA	45:SE:259:LEU:HD23	1.91	0.53
45:SK:83:TYR:H	45:SK:84:ARG:HH11	1.57	0.53
46:TH:318:ARG:HB3	46:TH:357:PRO:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TM:389:SER:O	45:TM:393:HIS:ND1	2.32	0.53
45:UC:101:ASN:ND2	47:UC:501:GTP:O1G	2.41	0.53
46:UD:16:ILE:HD12	46:UD:229:VAL:HG21	1.89	0.53
45:UE:75:ILE:HG23	45:UE:92:LEU:HD23	1.90	0.53
45:UG:123:ARG:HE	45:UG:124:LYS:HE2	1.73	0.53
45:UG:292:THR:HG21	45:UG:331:SER:HB3	1.90	0.53
46:UL:309:ARG:NH2	46:UL:426:GLN:O	2.29	0.53
45:VC:141:VAL:HG11	45:VC:172:TYR:CD1	2.44	0.53
46:VD:164:MET:SD	46:VD:166:THR:OG1	2.63	0.53
45:VI:8:HIS:HB2	45:VI:67:PHE:HD1	1.73	0.53
46:VL:148:GLY:O	46:VL:152:ILE:HG12	2.08	0.53
45:VM:340:THR:HG23	45:VM:341:ILE:HG13	1.90	0.53
46:VN:173:PRO:HD3	46:VN:380:ARG:NH1	2.23	0.53
46:VN:386:THR:O	46:VN:390:ARG:HG2	2.09	0.53
45:WE:287:SER:O	45:WE:290:GLU:HG2	2.09	0.53
7:OG:97:ASN:O	46:JN:359:LYS:NZ	2.41	0.53
18:II:218:THR:HB	45:LE:322:ASP:HB3	1.90	0.53
21:IL:314:ASN:HB2	46:BH:320:ARG:HH22	1.74	0.53
23:IO:185:ARG:HD3	46:UD:280:GLN:HG3	1.90	0.53
23:IO:192:TYR:HB2	46:UD:276:ARG:HH12	1.72	0.53
40:6G:133:ASN:N	40:6G:134:PRO:HD3	2.24	0.53
45:AA:259:LEU:HD11	45:AA:316:SER:HB2	1.91	0.53
45:AA:337:THR:O	45:AA:339:ARG:NH1	2.42	0.53
45:AC:164:LYS:O	45:AC:166:LYS:NZ	2.41	0.53
46:AF:178:THR:HB	46:AF:181:GLU:HG3	1.89	0.53
46:AH:55:THR:HG23	46:BH:283:ALA:HA	1.91	0.53
45:AI:184:PRO:O	45:AI:188:ILE:HG12	2.09	0.53
46:AJ:84:LEU:O	46:AJ:86:ARG:NH1	2.41	0.53
46:BB:221:THR:HG23	46:BB:224:ASP:H	1.73	0.53
46:BD:190:HIS:CD2	46:BD:411:ALA:HA	2.43	0.53
45:BG:275:ILE:HD13	45:BG:368:LEU:HD11	1.91	0.53
45:BG:298:PRO:HA	45:BG:301:MET:HE2	1.89	0.53
46:BH:113:ILE:HG12	46:BH:117:LEU:HG	1.91	0.53
45:BK:115:VAL:HG11	45:BK:152:LEU:HD23	1.91	0.53
46:CN:91:VAL:HG21	46:CN:116:VAL:HB	1.89	0.53
46:DF:209:ASP:OD1	46:DF:213:ARG:NE	2.41	0.53
45:DG:319:TYR:HB3	45:DG:323:VAL:HG21	1.90	0.53
46:DH:256:ASN:HB3	46:DH:257:LEU:HD12	1.90	0.53
46:DJ:289:LEU:HD13	46:DJ:365:VAL:HG23	1.90	0.53
46:DJ:304:ASP:OD1	46:DJ:306:ARG:NH1	2.41	0.53
45:DM:311:LYS:N	45:DM:382:THR:OG1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DM:395:PHE:HZ	45:DM:418:PHE:HB3	1.74	0.53
46:DN:100:ASN:HD21	46:DN:102:ALA:HB3	1.74	0.53
46:EB:21:TRP:CZ3	46:EB:61:PRO:HB3	2.44	0.53
45:EC:223:THR:HG23	45:EC:225:THR:H	1.74	0.53
46:EF:122:LYS:HD2	46:FF:291:GLN:NE2	2.24	0.53
45:EK:56:THR:HG21	45:EK:60:LYS:HG3	1.91	0.53
46:EL:3:GLU:HG3	46:EL:62:ARG:NH1	2.23	0.53
46:FH:66:MET:HA	46:FH:91:VAL:O	2.09	0.53
46:FH:178:THR:HG22	46:FH:180:VAL:H	1.74	0.53
46:FJ:99:ASN:HA	46:FJ:142:GLY:H	1.72	0.53
45:HE:184:PRO:O	45:HE:188:ILE:HG12	2.09	0.53
45:HE:407:TRP:HZ2	46:HF:258:ILE:HD11	1.73	0.53
46:HH:86:ARG:HB3	46:HH:89:ASN:OD1	2.09	0.53
46:HH:309:ARG:NH2	46:HH:341:PHE:O	2.42	0.53
46:HN:139:LEU:HD13	46:HN:168:SER:HB3	1.90	0.53
46:HN:313:ALA:HB1	46:HN:367:PHE:HE1	1.72	0.53
46:IH:167:PHE:CE2	46:IH:233:MET:HG2	2.44	0.53
45:II:147:SER:HB2	45:II:190:SER:HB3	1.91	0.53
46:IJ:44:LEU:HA	46:IJ:47:ILE:HG23	1.91	0.53
46:IJ:187:LEU:HD11	46:IJ:408:PHE:HE2	1.73	0.53
47:IK:501:GTP:O1G	46:IL:252:LYS:NZ	2.42	0.53
45:IM:36:MET:SD	45:IM:37:PRO:HD2	2.49	0.53
45:IM:207:GLU:HA	45:IM:210:TYR:HB2	1.90	0.53
46:JF:73:MET:HE1	46:JF:92:PHE:HB3	1.91	0.53
45:JG:33:ASP:N	45:JG:33:ASP:OD2	2.42	0.53
46:JJ:9:GLY:HA2	46:JJ:66:MET:O	2.09	0.53
45:JK:230:LEU:O	45:JK:234:VAL:HG23	2.09	0.53
45:KI:326:LYS:HZ3	46:KL:220:PRO:CD	2.22	0.53
46:KJ:208:TYR:HE2	46:KJ:225:LEU:HD11	1.74	0.53
45:KM:75:ILE:HD11	45:KM:92:LEU:HB3	1.91	0.53
45:LK:147:SER:HB2	45:LK:190:SER:HB3	1.89	0.53
45:MC:147:SER:HB2	45:MC:190:SER:HB3	1.90	0.53
45:MI:171:ILE:O	45:MI:171:ILE:HG13	2.07	0.53
46:MJ:66:MET:HE2	46:MJ:147:MET:HG2	1.91	0.53
45:MM:427:ALA:HA	45:MM:430:LYS:HG2	1.91	0.53
46:NH:285:THR:N	46:NH:288:GLU:OE2	2.40	0.53
46:NJ:19:LYS:O	46:NJ:22:GLU:HG3	2.09	0.53
46:NJ:60:VAL:HG11	46:NJ:86:ARG:HH21	1.74	0.53
45:OA:251:ASP:OD2	45:OA:253:THR:HG22	2.08	0.53
45:OC:221:ARG:HH22	46:OD:320:ARG:HH22	1.56	0.53
45:OE:141:VAL:HG22	45:OE:187:SER:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OF:253:LEU:O	46:OF:257:LEU:HB2	2.08	0.53
45:OG:5:ILE:HD11	45:OG:132:LEU:HD11	1.90	0.53
45:OI:222:PRO:HG2	46:OJ:324:LYS:HE2	1.90	0.53
45:OK:147:SER:HB2	45:OK:190:SER:HB2	1.89	0.53
46:PB:221:THR:HG23	46:PB:224:ASP:H	1.74	0.53
46:PF:207:LEU:HD13	46:PF:225:LEU:HB3	1.89	0.53
46:QB:48:ASN:O	46:QB:62:ARG:NH1	2.41	0.53
46:QB:260:PHE:HB2	46:QB:263:LEU:HD13	1.90	0.53
46:QD:169:VAL:HG12	46:QD:202:ILE:HB	1.90	0.53
46:QF:11:GLN:HA	46:QF:72:THR:HG21	1.90	0.53
45:RA:55:GLU:HG3	45:RA:57:GLY:H	1.74	0.53
46:RB:375:GLN:HB2	46:RB:379:LYS:HZ2	1.74	0.53
45:RG:88:HIS:CG	45:RG:121:ARG:HH22	2.26	0.53
46:RH:217:LEU:HD23	46:RH:219:THR:H	1.73	0.53
46:RJ:204:ASN:HD21	49:RJ:501:GDP:HN22	1.57	0.53
46:RJ:375:GLN:HG3	46:RJ:419:VAL:HG13	1.91	0.53
45:SG:348:PRO:HD2	46:SH:388:MET:HE2	1.90	0.53
45:SI:259:LEU:HD21	45:SI:316:SER:HB3	1.90	0.53
45:TA:292:THR:HG21	45:TA:331:SER:HB3	1.91	0.53
45:TC:11:GLN:H	47:TC:501:GTP:PB	2.31	0.53
46:TJ:148:GLY:O	46:TJ:152:ILE:HG12	2.07	0.53
45:UA:167:LEU:HG	45:UA:200:VAL:HB	1.91	0.53
46:UB:51:TYR:HB3	46:UB:59:TYR:HB3	1.91	0.53
45:UG:205:ASP:N	45:UG:205:ASP:OD2	2.41	0.53
46:UJ:117:LEU:HA	46:UJ:120:VAL:HG12	1.90	0.53
46:UJ:256:ASN:HB3	46:UJ:350:LYS:HE3	1.89	0.53
46:VF:417:ASP:O	46:VF:421:GLU:HG3	2.08	0.53
46:VH:67:ASP:OD1	46:VH:68:LEU:N	2.41	0.53
46:VH:209:ASP:OD2	46:VH:213:ARG:NH1	2.42	0.53
45:VK:10:GLY:O	45:VK:14:ILE:HG12	2.09	0.53
46:VN:118:ASP:OD1	46:VN:121:ARG:NH2	2.30	0.53
45:WA:116:ASP:HA	45:WA:119:LEU:HG	1.90	0.53
45:WC:208:ALA:O	45:WC:212:ILE:HG12	2.09	0.53
45:WE:114:ILE:HD12	45:WE:117:LEU:HD12	1.91	0.53
46:WF:174:LYS:HE2	46:WF:205:GLU:OE1	2.08	0.53
46:WJ:164:MET:SD	46:WJ:196:ALA:HA	2.49	0.53
46:WL:409:THR:O	46:WL:412:GLU:HG3	2.09	0.53
45:WM:340:THR:HG23	45:WM:341:ILE:HG13	1.91	0.53
46:WN:237:THR:HG23	46:WN:241:ARG:HE	1.73	0.53
45:CE:136:LEU:HD23	45:CE:167:LEU:HB2	1.91	0.53
4:OD:170:PRO:HA	45:EC:84:ARG:HH21	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0D:225:ARG:CZ	34:7R:566:PHE:HB2	2.38	0.53
31:2I:83:ARG:NH1	45:GE:299:ALA:HA	2.24	0.53
1:3A:136:ASN:ND2	46:AN:245:GLN:OE1	2.41	0.53
34:4R:593:ASP:OD2	34:4R:597:ASN:N	2.40	0.53
15:4X:2:LYS:HB2	45:LI:245:ASP:HB3	1.91	0.53
36:5B:21:GLN:O	36:5B:62:PRO:HD3	2.08	0.53
37:5H:117:ILE:HG22	37:5H:119:GLU:H	1.73	0.53
34:5R:278:TYR:HD1	34:5R:285:THR:HB	1.74	0.53
41:6H:319:MET:HB2	41:6H:323:TYR:CZ	2.43	0.53
10:6Q:7:GLN:HB3	10:6Q:73:LEU:HD11	1.91	0.53
34:6R:272:ASN:ND2	34:6R:274:TYR:OH	2.41	0.53
46:AB:100:ASN:HD22	46:AB:103:LYS:HB2	1.73	0.53
45:AE:11:GLN:NE2	46:AF:245:GLN:O	2.41	0.53
45:AG:227:LEU:O	45:AG:231:ILE:HD12	2.09	0.53
45:AI:9:VAL:HG12	45:AI:68:LEU:HB2	1.89	0.53
45:AM:387:VAL:HG12	45:AM:390:ARG:HH21	1.73	0.53
45:BA:191:THR:HA	45:BA:194:LEU:HG	1.90	0.53
45:BG:71:GLU:HG3	45:BG:98:ASP:HB2	1.89	0.53
46:BL:67:ASP:OD1	46:BL:68:LEU:N	2.42	0.53
46:BN:221:THR:HG23	46:BN:224:ASP:H	1.73	0.53
46:CD:149:THR:HA	46:CD:152:ILE:HD12	1.91	0.53
46:CF:132:GLY:HA3	46:CF:163:ILE:HG22	1.90	0.53
46:CF:141:GLY:O	46:CF:145:SER:HB2	2.09	0.53
45:CG:155:GLU:HG3	45:CG:156:ARG:NH1	2.24	0.53
45:CI:121:ARG:HH12	45:CI:124:LYS:HG3	1.73	0.53
46:CJ:304:ASP:OD2	46:CJ:306:ARG:HG2	2.09	0.53
45:CM:10:GLY:O	45:CM:14:ILE:HG12	2.08	0.53
46:CN:5:VAL:HG12	46:CN:62:ARG:HD3	1.91	0.53
46:CN:54:ALA:HB3	46:CN:58:ARG:HG2	1.91	0.53
46:DH:350:LYS:NZ	46:DH:352:SER:OG	2.42	0.53
46:DN:3:GLU:HB2	46:DN:62:ARG:HH22	1.74	0.53
46:DN:3:GLU:HB2	46:DN:62:ARG:NH2	2.23	0.53
46:EB:296:ALA:HB2	46:EB:306:ARG:HH22	1.74	0.53
46:EH:148:GLY:O	46:EH:152:ILE:HG12	2.09	0.53
46:EJ:103:LYS:O	46:EJ:107:THR:OG1	2.27	0.53
45:EK:325:PRO:HB2	46:EL:208:TYR:OH	2.08	0.53
45:FC:27:GLU:OE1	45:FC:243:ARG:NH1	2.41	0.53
46:FD:420:SER:O	46:FD:423:GLN:HG3	2.08	0.53
45:FG:287:SER:N	45:FG:290:GLU:OE2	2.35	0.53
45:FK:424:ASP:O	45:FK:428:LEU:HD23	2.09	0.53
45:GA:192:HIS:HD2	45:GA:421:ALA:HA	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GC:121:ARG:HH12	45:GC:124:LYS:HZ3	1.56	0.53
46:GF:133:PHE:HB2	46:GF:164:MET:SD	2.49	0.53
45:GG:205:ASP:N	45:GG:205:ASP:OD2	2.41	0.53
46:HB:39:ASP:OD1	46:HB:40:SER:N	2.41	0.53
45:HE:407:TRP:HE1	46:HF:258:ILE:HG13	1.73	0.53
45:HG:101:ASN:HA	45:HG:144:GLY:H	1.73	0.53
45:HM:101:ASN:HA	45:HM:144:GLY:H	1.73	0.53
46:IB:135:ILE:HG13	46:IB:152:ILE:HD11	1.91	0.53
45:IC:326:LYS:HE3	46:IF:220:PRO:HD2	1.91	0.53
45:IG:208:ALA:O	45:IG:212:ILE:HG12	2.09	0.53
45:JC:7:ILE:HB	45:JC:137:VAL:HG12	1.90	0.53
45:JE:336:LYS:HE3	45:JE:351:PHE:HE2	1.74	0.53
46:JH:207:LEU:HB3	46:JH:225:LEU:HD22	1.89	0.53
46:JH:207:LEU:HD13	46:JH:225:LEU:HB3	1.91	0.53
46:JN:47:ILE:HD12	46:JN:59:TYR:HE2	1.73	0.53
45:KG:414:GLU:CD	45:KG:416:GLY:H	2.12	0.53
45:KI:88:HIS:HB3	45:KI:91:GLN:HB2	1.90	0.53
45:KK:320:ARG:HD3	45:KK:360:PRO:HG3	1.91	0.53
46:LD:173:PRO:HG3	46:LD:380:ARG:HD2	1.91	0.53
46:LD:202:ILE:HD11	46:LD:268:ILE:HD11	1.91	0.53
46:LF:97:ALA:HB2	46:LF:143:THR:HB	1.91	0.53
45:LI:217:LEU:HD11	45:LI:368:LEU:HD23	1.91	0.53
46:LL:73:MET:HG3	46:LL:77:ARG:HH21	1.73	0.53
45:LM:155:GLU:HG3	45:LM:197:HIS:CD2	2.43	0.53
46:MH:9:GLY:HA2	46:MH:66:MET:O	2.09	0.53
45:MI:306:ASP:OD1	45:MI:308:ARG:NH1	2.42	0.53
46:ML:102:ALA:O	46:ML:106:TYR:HB2	2.09	0.53
46:NH:313:ALA:HB1	46:NH:367:PHE:HE1	1.74	0.53
45:NK:328:VAL:HG11	45:NK:353:VAL:HG21	1.91	0.53
45:OA:211:ASP:O	45:OA:215:ARG:HG2	2.09	0.53
45:OE:252:ILE:HA	45:OE:255:PHE:HE2	1.74	0.53
45:OE:280:LYS:HG3	45:OE:280:LYS:O	2.08	0.53
46:OF:380:ARG:O	46:OF:383:GLU:HG3	2.09	0.53
45:OK:251:ASP:OD1	45:OK:254:GLU:HG2	2.09	0.53
45:OM:234:VAL:HG22	45:OM:272:TYR:HB2	1.90	0.53
46:ON:46:ARG:HD2	46:ON:241:ARG:HA	1.89	0.53
46:ON:257:LEU:HD11	46:ON:314:SER:HB3	1.91	0.53
45:PA:293:ASN:O	45:PA:297:GLU:HG2	2.09	0.53
45:PC:121:ARG:HE	45:PC:124:LYS:HE2	1.73	0.53
45:PI:419:SER:O	45:PI:423:GLU:HG2	2.09	0.53
46:PL:208:TYR:CE1	46:PL:225:LEU:HD11	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:165:GLU:OE2	46:QB:198:GLU:HG3	2.09	0.53
45:QC:326:LYS:HD3	46:QD:212:PHE:CZ	2.43	0.53
45:QG:174:SER:HB3	45:QG:177:VAL:O	2.09	0.53
45:QI:3:GLU:HG2	45:QI:64:ARG:NE	2.24	0.53
46:QJ:341:PHE:HD2	46:QJ:348:ASN:HD21	1.57	0.53
45:QK:227:LEU:O	45:QK:231:ILE:HD12	2.08	0.53
45:QM:242:LEU:HD11	45:QM:252:ILE:HG13	1.90	0.53
45:RE:324:VAL:HG12	45:RE:326:LYS:H	1.73	0.53
46:RJ:86:ARG:NH2	46:SJ:278:SER:OG	2.42	0.53
45:SG:288:VAL:HA	45:SG:291:ILE:HG12	1.90	0.53
46:SJ:63:ALA:O	46:SJ:89:ASN:ND2	2.40	0.53
45:SK:210:TYR:O	45:SK:214:ARG:HG2	2.08	0.53
45:SM:434:GLU:O	46:SN:391:ARG:NH2	2.41	0.53
46:TD:67:ASP:OD1	46:TD:68:LEU:N	2.41	0.53
46:TD:256:ASN:HD21	45:TE:180:ALA:HA	1.73	0.53
46:TD:256:ASN:OD1	45:TE:181:VAL:HG22	2.08	0.53
45:TE:88:HIS:ND1	45:TE:91:GLN:OE1	2.42	0.53
46:TL:262:ARG:HH21	46:TL:418:LEU:HD22	1.72	0.53
45:UC:188:ILE:HD11	45:UC:391:LEU:HB3	1.90	0.53
45:UE:209:ILE:HD11	45:UE:230:LEU:HD23	1.91	0.53
45:UE:352:LYS:HZ1	46:UF:179:VAL:HG22	1.73	0.53
45:UM:88:HIS:HA	45:VK:280:LYS:HE3	1.90	0.53
45:VA:98:ASP:OD1	45:VA:99:ALA:N	2.41	0.53
45:VC:136:LEU:HD23	45:VC:167:LEU:HB2	1.91	0.53
45:VC:212:ILE:HD11	45:VC:300:ASN:HA	1.89	0.53
45:VE:1:MET:O	45:VE:131:GLY:HA3	2.09	0.53
45:VG:155:GLU:OE1	45:VG:156:ARG:HD2	2.09	0.53
46:VH:406:MET:O	46:VH:410:GLU:HG2	2.09	0.53
45:VM:206:ASN:OD1	47:VM:501:GTP:N2	2.42	0.53
46:VN:313:ALA:HB1	46:VN:367:PHE:CE1	2.44	0.53
7:1G:132:ARG:HH12	45:JA:82:THR:HB	1.73	0.53
19:1J:357:GLY:HA2	46:IN:280:GLN:HE22	1.72	0.53
25:2R:283:ARG:NH1	45:CG:46:ASP:OD1	2.41	0.53
23:3O:427:LEU:HD11	45:UG:278:ALA:HB1	1.90	0.53
25:3R:252:LEU:HD21	45:CK:282:TYR:CE1	2.42	0.53
35:4S:160:THR:O	35:4S:164:LYS:HG2	2.09	0.53
36:5A:62:PRO:O	36:5A:63:THR:OG1	2.25	0.53
37:5E:63:HIS:HD2	46:NB:58:ARG:CZ	2.22	0.53
37:5H:133:PRO:HB2	37:5H:136:LEU:HB2	1.90	0.53
34:6R:430:LEU:HD21	34:6R:437:ASP:O	2.09	0.53
34:7R:94:ARG:HD2	34:7R:184:ASP:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AE:116:ASP:N	45:AE:116:ASP:OD2	2.41	0.53
46:AF:5:VAL:HG12	46:AF:62:ARG:HD3	1.90	0.53
45:BA:147:SER:HB2	45:BA:190:SER:HB3	1.91	0.53
45:BA:407:TRP:CZ3	46:BB:255:VAL:HA	2.44	0.53
46:BH:186:THR:HA	46:BH:189:VAL:HG12	1.91	0.53
46:BJ:390:ARG:HG3	46:BJ:390:ARG:HH11	1.73	0.53
46:CL:217:LEU:HB3	46:CL:220:PRO:HG3	1.91	0.53
45:DA:288:VAL:HG11	45:DA:327:ASP:HB3	1.91	0.53
46:DH:65:LEU:HD12	46:DH:90:PHE:CE1	2.44	0.53
46:DH:99:ASN:ND2	46:DH:178:THR:HG21	2.23	0.53
45:DI:419:SER:O	45:DI:423:GLU:HG2	2.09	0.53
45:EA:135:PHE:HB2	45:EA:166:LYS:HG2	1.90	0.53
46:EF:3:GLU:HG3	46:EF:62:ARG:NH1	2.24	0.53
46:FB:350:LYS:NZ	46:FB:352:SER:OG	2.38	0.53
46:FJ:23:VAL:HG21	46:FJ:230:SER:HB3	1.91	0.53
46:FJ:178:THR:HB	46:FJ:181:GLU:HG3	1.90	0.53
46:FJ:318:ARG:HB3	46:FJ:357:PRO:HA	1.91	0.53
46:FN:68:LEU:HD12	46:FN:93:GLY:HA3	1.90	0.53
45:GE:297:GLU:OE2	45:GE:299:ALA:HB3	2.07	0.53
45:GG:76:ASP:OD1	45:GG:79:ARG:NH2	2.41	0.53
45:HA:109:THR:OG1	45:HA:411:GLU:OE2	2.16	0.53
45:HE:22:GLU:OE2	45:HE:83:TYR:OH	2.22	0.53
46:HF:192:LEU:HD21	46:HF:199:CYS:HB2	1.91	0.53
46:HH:254:ALA:O	46:HH:258:ILE:HG22	2.08	0.53
46:HJ:293:MET:HE2	46:HJ:367:PHE:HB2	1.91	0.53
46:ID:186:THR:HA	46:ID:189:VAL:HG12	1.91	0.53
45:IE:71:GLU:OE1	45:IE:73:THR:OG1	2.20	0.53
45:IM:176:GLN:HE22	46:IN:331:LEU:HD11	1.73	0.53
45:IM:181:VAL:HG23	45:IM:182:VAL:HG23	1.91	0.53
45:JG:76:ASP:OD2	46:JH:46:ARG:NH2	2.41	0.53
45:KC:308:ARG:HG2	45:NC:282:TYR:CZ	2.43	0.53
46:KN:6:HIS:O	46:KN:63:ALA:HA	2.08	0.53
45:LA:395:PHE:HZ	45:LA:418:PHE:HB3	1.74	0.53
46:LB:221:THR:HG23	46:LB:224:ASP:H	1.73	0.53
45:LC:326:LYS:NZ	46:LF:208:TYR:O	2.42	0.53
45:LE:224:TYR:HD1	45:LE:227:LEU:HD12	1.73	0.53
46:LH:386:THR:O	46:LH:390:ARG:HG2	2.08	0.53
45:LI:136:LEU:HD23	45:LI:167:LEU:HB2	1.91	0.53
46:LJ:334:GLN:HE22	46:LJ:348:ASN:H	1.55	0.53
46:LL:3:GLU:HG3	46:LL:62:ARG:NH1	2.24	0.53
46:LL:222:TYR:O	46:LL:226:ASN:ND2	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MA:272:TYR:HD2	45:MA:275:ILE:HD11	1.74	0.53
46:MB:313:ALA:HB1	46:MB:367:PHE:HE1	1.74	0.53
46:MD:222:TYR:O	46:MD:226:ASN:ND2	2.31	0.53
45:ME:184:PRO:O	45:ME:188:ILE:HG12	2.08	0.53
45:ME:407:TRP:HZ2	46:MF:258:ILE:HD11	1.73	0.53
46:MF:371:SER:O	46:MF:422:TYR:OH	2.23	0.53
46:ML:207:LEU:HB3	46:ML:225:LEU:HD22	1.90	0.53
45:NC:259:LEU:HD23	45:NC:268:MET:HG2	1.90	0.53
45:NG:398:MET:HE1	46:NH:346:PRO:HD2	1.91	0.53
46:NH:58:ARG:HH22	46:OH:280:GLN:HG3	1.72	0.53
46:NJ:203:ASP:OD1	46:NJ:302:ALA:N	2.31	0.53
45:NK:210:TYR:HE1	45:NK:227:LEU:HD21	1.74	0.53
45:OK:88:HIS:HB3	45:OK:91:GLN:HG2	1.91	0.53
46:ON:207:LEU:HD12	46:ON:225:LEU:HD22	1.90	0.53
46:PB:372:THR:HA	46:PB:422:TYR:HE2	1.74	0.53
46:PD:256:ASN:HD21	46:PD:350:LYS:HB2	1.73	0.53
46:PD:316:LEU:HD13	46:PD:352:SER:HB2	1.91	0.53
46:PF:418:LEU:O	46:PF:422:TYR:HB2	2.08	0.53
45:PG:247:ALA:HB3	45:PG:355:ILE:HD11	1.90	0.53
46:PH:405:GLU:OE2	46:PH:409:THR:OG1	2.27	0.53
45:PI:212:ILE:HD11	45:PI:300:ASN:HA	1.89	0.53
45:PK:70:LEU:HD13	45:PK:95:GLY:HA3	1.91	0.53
45:QK:21:TRP:CZ3	45:QK:63:PRO:HB3	2.44	0.53
46:QN:42:LEU:HA	46:QN:45:GLU:HG3	1.90	0.53
45:RE:27:GLU:HB3	45:RE:361:THR:HG21	1.89	0.53
45:SC:419:SER:O	45:SC:423:GLU:HG2	2.09	0.53
46:SD:262:ARG:HH21	46:SD:418:LEU:HD22	1.74	0.53
45:SE:362:VAL:HG12	45:SE:370:LYS:HE2	1.90	0.53
46:SF:3:GLU:OE1	46:SF:49:VAL:HA	2.09	0.53
45:SI:9:VAL:HG12	45:SI:68:LEU:HB2	1.91	0.53
46:SL:327:ASP:HA	46:SL:330:MET:HG3	1.91	0.53
45:SM:174:SER:HB2	45:SM:177:VAL:O	2.09	0.53
46:TD:226:ASN:HD21	49:TD:501:GDP:HN1	1.56	0.53
46:TJ:97:ALA:HA	46:TJ:103:LYS:HD2	1.90	0.53
45:TK:69:ASP:OD1	45:TK:70:LEU:N	2.41	0.53
46:TL:2:ARG:NH1	45:TM:71:GLU:HG2	2.22	0.53
46:TL:316:LEU:HD23	46:TL:352:SER:HB2	1.91	0.53
45:UC:340:THR:HG23	45:UC:341:ILE:HG13	1.91	0.53
46:UF:398:TYR:O	46:UF:403:MET:HB2	2.09	0.53
46:UL:290:THR:HA	46:UL:293:MET:HG2	1.90	0.53
45:VA:406:HIS:HA	45:VA:409:VAL:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VL:64:ILE:HA	46:VL:89:ASN:HB3	1.89	0.53
46:WB:293:MET:HG2	46:WB:365:VAL:HG11	1.90	0.53
46:WD:148:GLY:O	46:WD:152:ILE:HG13	2.08	0.53
45:WE:96:LYS:HD3	46:WF:1:MET:HE3	1.91	0.53
45:WE:121:ARG:HH21	45:WE:124:LYS:HE3	1.73	0.53
45:WG:221:ARG:NH2	46:WH:322:SER:O	2.42	0.53
4:2D:81:ARG:HH12	46:EJ:356:ILE:HG23	1.74	0.53
37:5E:214:LEU:HG	45:LC:437:ILE:HD11	1.91	0.53
37:5H:93:PHE:CE2	46:KN:261:PRO:HG3	2.44	0.53
46:AF:375:GLN:HG3	46:AF:379:LYS:NZ	2.23	0.53
46:AH:6:HIS:NE2	46:AH:8:GLN:OE1	2.42	0.53
45:AM:58:ALA:O	45:BM:282:TYR:OH	2.27	0.53
46:BB:282:ARG:NH2	46:BB:292:GLN:OE1	2.36	0.53
45:BC:147:SER:HB2	45:BC:190:SER:HB2	1.91	0.53
46:BH:73:MET:HE3	46:BH:92:PHE:HB3	1.91	0.53
45:BI:28:HIS:CE1	45:BI:49:PHE:HA	2.43	0.53
46:BJ:55:THR:HG23	46:CH:283:ALA:HA	1.90	0.53
45:BM:239:THR:HG23	45:BM:243:ARG:HH12	1.74	0.53
45:CA:140:SER:OG	47:CA:501:GTP:O2B	2.27	0.53
45:CA:332:ILE:HD11	45:CA:351:PHE:CD1	2.43	0.53
46:CH:282:ARG:NH2	46:CH:292:GLN:OE1	2.39	0.53
45:CK:288:VAL:HG11	45:CK:327:ASP:HB3	1.91	0.53
45:DA:288:VAL:HA	45:DA:291:ILE:HG12	1.91	0.53
45:DG:318:MET:HB2	45:DG:376:CYS:SG	2.49	0.53
46:DH:258:ILE:HD11	45:DI:407:TRP:HZ2	1.73	0.53
46:DH:284:LEU:HD11	46:DH:362:LYS:HB2	1.91	0.53
46:DJ:226:ASN:HD21	49:DJ:501:GDP:HN1	1.57	0.53
46:DL:5:VAL:HG12	46:DL:62:ARG:HD3	1.90	0.53
46:EB:32:PRO:HA	46:EB:84:LEU:HD11	1.89	0.53
46:EL:2:ARG:NH2	45:EM:73:THR:OG1	2.41	0.53
46:EL:121:ARG:NH2	46:EL:158:GLU:OE2	2.32	0.53
46:EN:67:ASP:O	46:EN:92:PHE:HA	2.08	0.53
45:FI:9:VAL:HG12	45:FI:68:LEU:HB2	1.91	0.53
45:FI:101:ASN:HA	45:FI:144:GLY:H	1.74	0.53
45:GE:320:ARG:NH2	45:GE:358:GLN:OE1	2.42	0.53
45:GG:322:ASP:OD1	45:GG:373:ARG:NH1	2.42	0.53
46:GH:102:ALA:HB2	46:GH:403:MET:HE2	1.89	0.53
46:GH:190:HIS:CD2	46:GH:411:ALA:HA	2.43	0.53
45:HC:184:PRO:O	45:HC:188:ILE:HG12	2.09	0.53
45:HE:396:ASP:OD1	45:HE:397:LEU:N	2.42	0.53
45:HK:164:LYS:O	45:HK:166:LYS:NZ	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IA:5:ILE:HD11	45:IA:135:PHE:CE1	2.43	0.53
45:IA:189:LEU:HD11	45:IA:418:PHE:HE2	1.74	0.53
46:ID:222:TYR:O	46:ID:226:ASN:ND2	2.24	0.53
45:JI:141:VAL:HG22	45:JI:187:SER:HA	1.90	0.53
46:JN:67:ASP:O	46:JN:92:PHE:HA	2.09	0.53
46:JN:203:ASP:HB3	46:JN:301:CYS:HA	1.91	0.53
46:KB:222:TYR:O	46:KB:226:ASN:ND2	2.42	0.53
45:KE:184:PRO:O	45:KE:188:ILE:HG12	2.09	0.53
46:KF:238:CYS:SG	46:KF:318:ARG:HD2	2.49	0.53
46:KL:8:GLN:HE21	46:KL:65:LEU:HD21	1.73	0.53
45:KM:147:SER:HB2	45:KM:190:SER:OG	2.09	0.53
45:LA:102:ASN:OD1	45:LA:105:ARG:N	2.31	0.53
45:LE:286:LEU:O	45:LE:373:ARG:NE	2.39	0.53
45:LM:276:ILE:HG23	45:LM:280:LYS:HG3	1.90	0.53
46:MD:313:ALA:HB1	46:MD:367:PHE:HE1	1.74	0.53
45:ME:272:TYR:HB3	45:ME:275:ILE:HD11	1.91	0.53
45:ME:397:LEU:HD23	46:MF:346:PRO:HD3	1.91	0.53
45:NG:177:VAL:HG12	46:NH:331:LEU:HD13	1.91	0.53
46:NH:262:ARG:NH2	46:NH:414:ASN:OD1	2.42	0.53
45:NK:109:THR:HG22	45:NK:110:ILE:HG23	1.90	0.53
45:OE:147:SER:HB2	45:OE:190:SER:HB2	1.91	0.53
46:ON:213:ARG:HH22	46:ON:297:LYS:HB3	1.74	0.53
46:PB:67:ASP:O	46:PB:92:PHE:HA	2.09	0.53
45:PC:27:GLU:OE2	45:PC:28:HIS:ND1	2.41	0.53
45:PE:387:VAL:HA	45:PE:390:ARG:HG2	1.91	0.53
45:PG:261:PRO:HG3	46:PJ:394:PHE:HE2	1.73	0.53
46:PH:74:ASP:HA	46:PH:77:ARG:HE	1.73	0.53
45:PK:7:ILE:HB	45:PK:137:VAL:HG12	1.90	0.53
46:QD:49:VAL:HG23	46:QD:50:TYR:CD2	2.44	0.53
45:RA:229:ARG:HH12	45:RA:367:ASP:H	1.57	0.53
46:RB:162:ARG:HH22	46:RB:251:ARG:HD2	1.73	0.53
46:RB:167:PHE:CE1	46:RB:233:MET:HG2	2.43	0.53
46:RF:326:VAL:O	46:RF:330:MET:HE3	2.09	0.53
45:RK:174:SER:OG	45:RK:207:GLU:OE1	2.27	0.53
45:RM:192:HIS:ND1	45:RM:421:ALA:HA	2.24	0.53
46:SB:51:TYR:O	46:SB:62:ARG:NH2	2.40	0.53
45:SE:11:GLN:HG3	45:SE:74:VAL:HG11	1.89	0.53
46:SJ:52:ASN:OD1	46:SJ:62:ARG:NH2	2.42	0.53
45:SK:326:LYS:HD3	46:SL:220:PRO:HD2	1.91	0.53
45:SM:98:ASP:O	45:SM:105:ARG:NH1	2.41	0.53
45:SM:340:THR:HG23	45:SM:341:ILE:HG13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TC:9:VAL:HG21	45:TC:149:LEU:HB2	1.91	0.53
46:TD:213:ARG:HD2	46:TD:297:LYS:HB2	1.91	0.53
45:TE:352:LYS:NZ	46:TF:179:VAL:HG13	2.24	0.53
46:TF:202:ILE:HD11	46:TF:207:LEU:HD21	1.90	0.53
46:UD:211:CYS:HA	46:UD:215:LEU:HD12	1.91	0.53
45:UE:175:PRO:HD2	45:UE:207:GLU:OE2	2.09	0.53
46:UF:327:ASP:OD1	46:UF:328:GLU:N	2.41	0.53
45:UI:184:PRO:O	45:UI:188:ILE:HG12	2.09	0.53
45:UI:326:LYS:HZ2	46:UJ:220:PRO:HD2	1.73	0.53
45:VG:301:MET:CE	45:VG:307:PRO:HD3	2.39	0.53
45:VI:141:VAL:HG22	45:VI:187:SER:HA	1.90	0.53
45:WA:98:ASP:O	45:WA:105:ARG:NH1	2.42	0.53
46:WB:310:TYR:HB2	46:WB:341:PHE:HD1	1.74	0.53
45:WM:174:SER:HB2	45:WM:177:VAL:O	2.09	0.53
19:1J:263:PHE:CE2	45:II:281:ALA:HB3	2.43	0.53
10:1Q:36:ARG:NE	35:4S:202:ASP:O	2.30	0.53
10:1Q:37:ILE:HG13	35:4S:208:GLN:NE2	2.23	0.53
14:1V:94:GLY:HA2	46:LJ:262:ARG:HG2	1.91	0.53
31:2I:83:ARG:HH12	45:GE:299:ALA:HA	1.73	0.53
23:2O:449:GLY:HA3	46:UB:56:GLY:HA2	1.91	0.53
13:2U:449:ARG:HH12	45:VI:84:ARG:HH11	1.57	0.53
25:3R:9:PRO:HA	46:MN:227:HIS:HD2	1.74	0.53
30:4H:184:LYS:HG2	46:AL:276:ARG:HH22	1.73	0.53
37:5E:44:ARG:HD3	37:5E:45:PRO:HD2	1.90	0.53
10:5Q:81:LYS:HD2	10:5Q:129:TRP:CE2	2.44	0.53
10:6Q:61:ALA:HB1	10:6Q:69:LEU:HD13	1.91	0.53
45:BE:147:SER:HB2	45:BE:190:SER:OG	2.08	0.53
45:BE:214:ARG:HH12	45:BE:220:GLU:HG2	1.73	0.53
46:BH:105:HIS:CE1	46:BH:150:LEU:HD12	2.43	0.53
45:BM:55:GLU:HG3	45:BM:57:GLY:H	1.74	0.53
46:BN:298:ASN:ND2	46:BN:298:ASN:O	2.41	0.53
46:CD:105:HIS:CE1	46:CD:150:LEU:HD13	2.44	0.53
46:DD:86:ARG:HB3	46:DD:88:ASP:OD1	2.09	0.53
46:DJ:238:CYS:SG	46:DJ:239:CYS:N	2.82	0.53
45:DM:426:ALA:HB1	45:DM:430:LYS:NZ	2.24	0.53
46:EF:350:LYS:HZ3	46:EF:352:SER:HB2	1.74	0.53
45:EG:219:ILE:HG22	45:EG:222:PRO:HD3	1.91	0.53
46:EL:257:LEU:HD11	46:EL:314:SER:HB2	1.91	0.53
46:FB:6:HIS:HD2	46:FB:21:TRP:HE1	1.57	0.53
46:FF:166:THR:HG1	46:FF:199:CYS:HG	1.50	0.53
46:FN:175:VAL:HG22	46:FN:205:GLU:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GE:326:LYS:CD	46:GH:208:TYR:HE1	2.21	0.53
46:GJ:6:HIS:O	46:GJ:63:ALA:HA	2.09	0.53
46:HF:31:ASP:OD1	46:HF:35:THR:N	2.38	0.53
45:HI:345:ASP:OD2	45:HI:346:TRP:N	2.42	0.53
46:HJ:139:LEU:HD13	46:HJ:168:SER:HB3	1.91	0.53
46:IH:282:ARG:NH1	46:IH:292:GLN:OE1	2.39	0.53
45:II:362:VAL:HB	45:II:370:LYS:HB3	1.89	0.53
46:IL:193:VAL:HA	46:IL:264:HIS:HE1	1.74	0.53
45:JC:153:LEU:O	45:JC:157:LEU:HG	2.09	0.53
46:JH:285:THR:HB	46:JH:287:PRO:HD2	1.90	0.53
45:JM:104:ALA:HB2	45:JM:408:TYR:HD1	1.74	0.53
45:KC:298:PRO:HA	45:KC:301:MET:HG2	1.91	0.53
46:KJ:65:LEU:HB3	46:KJ:73:MET:HE2	1.91	0.53
45:LE:21:TRP:CZ3	45:LE:63:PRO:HB3	2.44	0.53
45:LI:208:ALA:O	45:LI:212:ILE:HG12	2.09	0.53
45:MG:260:VAL:HG13	45:MG:265:ILE:O	2.09	0.53
45:NG:419:SER:O	45:NG:423:GLU:HG2	2.09	0.53
45:NM:269:LEU:HB2	45:NM:301:MET:CE	2.39	0.53
45:OA:167:LEU:HD23	45:OA:200:VAL:HB	1.91	0.53
45:OA:399:TYR:OH	45:OA:415:GLU:OE2	2.25	0.53
45:OA:408:TYR:HD2	45:OA:418:PHE:HZ	1.56	0.53
46:OF:16:ILE:HD13	46:OF:226:ASN:OD1	2.09	0.53
45:OG:10:GLY:O	45:OG:14:ILE:HG12	2.09	0.53
45:OG:88:HIS:ND1	45:PG:284:GLU:OE1	2.42	0.53
46:OH:131:GLN:HE22	46:OH:163:ILE:HD11	1.73	0.53
46:OH:332:ASN:O	46:OH:336:LYS:HG3	2.09	0.53
45:OM:390:ARG:HG3	45:OM:391:LEU:HD12	1.91	0.53
46:PF:105:HIS:CE1	46:PF:150:LEU:HD13	2.44	0.53
45:PI:88:HIS:CD2	45:PI:90:GLU:HG3	2.43	0.53
45:PI:319:TYR:HB3	45:PI:323:VAL:HG11	1.90	0.53
46:PL:86:ARG:HB3	46:PL:89:ASN:HD21	1.72	0.53
45:QC:74:VAL:O	45:QC:78:VAL:HG23	2.09	0.53
45:QC:211:ASP:OD1	45:QC:214:ARG:NH2	2.28	0.53
46:QD:86:ARG:HA	46:RD:281:TYR:HE1	1.73	0.53
45:QE:391:LEU:HA	45:QE:394:LYS:HG2	1.89	0.53
45:QI:36:MET:SD	45:QI:37:PRO:HD2	2.49	0.53
45:QI:205:ASP:OD2	45:QI:303:ALA:HA	2.08	0.53
46:QJ:2:ARG:HB2	46:QJ:131:GLN:HG3	1.89	0.53
46:QJ:350:LYS:HD3	45:QK:180:ALA:HA	1.91	0.53
46:QN:289:LEU:O	46:QN:293:MET:HG3	2.09	0.53
46:QN:372:THR:HA	46:QN:422:TYR:HE2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RK:129:CYS:SG	45:RK:130:THR:N	2.81	0.53
46:RL:67:ASP:OD1	46:RL:68:LEU:N	2.42	0.53
46:RN:226:ASN:HD21	49:RN:501:GDP:HN1	1.56	0.53
46:SL:334:GLN:HA	46:SL:341:PHE:CE2	2.43	0.53
45:TC:84:ARG:NH2	45:TC:85:GLN:HA	2.24	0.53
45:TG:224:TYR:O	45:TG:228:ASN:ND2	2.41	0.53
45:TI:60:LYS:NZ	45:UI:282:TYR:O	2.41	0.53
46:UH:1:MET:CE	46:UH:2:ARG:H	2.22	0.53
45:UK:156:ARG:HE	45:UK:156:ARG:HA	1.74	0.53
45:VA:326:LYS:HE2	46:VD:220:PRO:HD2	1.91	0.53
45:VE:268:MET:HG3	45:VE:380:ASN:HB2	1.89	0.53
45:VG:244:PHE:HB2	45:VG:356:ASN:HD21	1.74	0.53
46:VH:286:VAL:HG21	46:VH:325:GLU:HG3	1.90	0.53
45:VM:270:SER:O	45:VM:302:MET:HB2	2.08	0.53
46:VN:117:LEU:O	46:VN:121:ARG:HG3	2.09	0.53
45:WA:244:PHE:HB2	45:WA:356:ASN:HD21	1.73	0.53
46:WB:266:PHE:CE2	46:WB:370:ASN:HB2	2.44	0.53
45:WE:167:LEU:HG	45:WE:200:VAL:HB	1.90	0.53
45:DC:288:VAL:HG21	45:DC:327:ASP:HB3	1.90	0.53
11:0S:312:THR:O	45:AA:402:ARG:NH2	2.41	0.52
1:1A:61:TYR:OH	46:MF:53:GLU:OE1	2.27	0.52
4:1D:20:LYS:HZ2	46:CF:53:GLU:HB3	1.73	0.52
7:1G:87:PHE:O	46:JB:276:ARG:NH2	2.29	0.52
4:2D:95:GLN:HE22	45:EK:364:PRO:HB2	1.72	0.52
30:2H:200:TYR:CD2	45:AC:77:GLU:HG3	2.44	0.52
35:4S:65:PHE:CE2	35:4S:120:ALA:HB2	2.44	0.52
36:5B:138:ARG:HH22	46:NH:359:LYS:NZ	2.06	0.52
36:5D:87:ARG:NH1	45:NM:364:PRO:HG2	2.24	0.52
37:5G:209:ARG:HD3	37:5G:209:ARG:H	1.73	0.52
37:5H:67:ARG:NH1	37:5H:70:GLU:OE1	2.42	0.52
35:5S:152:THR:O	35:5S:153:LYS:HG3	2.09	0.52
43:8P:318:UNK:C	46:QB:276:ARG:HH22	2.22	0.52
45:AC:226:ASN:ND2	45:AC:367:ASP:OD2	2.39	0.52
46:AD:150:LEU:O	46:AD:154:LYS:HG2	2.08	0.52
45:AG:208:ALA:O	45:AG:212:ILE:HG12	2.08	0.52
46:AJ:292:GLN:HG2	46:AJ:298:ASN:ND2	2.24	0.52
45:AK:90:GLU:OE1	45:AK:121:ARG:NH2	2.43	0.52
45:BA:132:LEU:HD22	45:BA:164:LYS:HG2	1.91	0.52
46:BB:303:ALA:HB2	46:BB:377:MET:HE1	1.91	0.52
45:BE:224:TYR:HE1	47:BE:501:GTP:C5	2.27	0.52
46:BF:238:CYS:SG	46:BF:239:CYS:N	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BG:268:MET:HG3	45:BG:380:ASN:HB2	1.89	0.52
46:BH:174:LYS:N	46:BH:174:LYS:HD3	2.24	0.52
45:CA:241:SER:OG	45:CA:250:VAL:O	2.22	0.52
45:CG:206:ASN:OD1	45:CG:207:GLU:N	2.42	0.52
46:DB:86:ARG:HG3	46:DB:87:PRO:HD2	1.90	0.52
46:DJ:327:ASP:HB3	45:DK:177:VAL:HG13	1.91	0.52
46:DL:19:LYS:HZ2	46:DL:227:HIS:HA	1.74	0.52
46:DL:334:GLN:HA	46:DL:341:PHE:HE1	1.74	0.52
46:EB:162:ARG:HA	46:EB:251:ARG:HH22	1.74	0.52
46:ED:45:GLU:OE1	46:ED:46:ARG:HG2	2.09	0.52
46:EH:258:ILE:HD11	45:EI:407:TRP:HZ2	1.73	0.52
45:EI:118:CYS:O	45:EI:122:ILE:HG12	2.08	0.52
46:EL:371:SER:O	46:EL:422:TYR:OH	2.23	0.52
46:EN:278:SER:HA	46:EN:281:TYR:HB2	1.91	0.52
45:FC:292:THR:HG21	45:FC:331:SER:HB3	1.91	0.52
45:FK:115:VAL:HG23	45:FK:153:LEU:HD23	1.91	0.52
45:FM:140:SER:OG	47:FM:501:GTP:O2B	2.27	0.52
45:GA:88:HIS:HB3	45:GA:91:GLN:HG3	1.91	0.52
45:GE:226:ASN:ND2	45:GE:367:ASP:OD2	2.42	0.52
45:GE:259:LEU:HD21	45:GE:316:SER:HB3	1.91	0.52
45:GE:326:LYS:HZ2	46:GH:208:TYR:HE1	1.56	0.52
46:GL:372:THR:HA	46:GL:422:TYR:CE2	2.44	0.52
45:HA:66:VAL:HG23	45:HA:91:GLN:HB2	1.90	0.52
45:HA:245:ASP:OD1	45:HA:246:GLY:N	2.42	0.52
45:HI:329:ASN:HD21	46:HL:175:VAL:HG12	1.73	0.52
45:HK:105:ARG:HD2	46:HL:251:ARG:HH21	1.74	0.52
46:HL:309:ARG:NH2	46:HL:426:GLN:O	2.37	0.52
45:IA:308:ARG:HH11	45:IA:308:ARG:HA	1.74	0.52
45:IC:118:CYS:O	45:IC:122:ILE:HG12	2.08	0.52
45:IE:356:ASN:OD1	45:IE:357:TYR:N	2.41	0.52
46:IJ:258:ILE:HD12	46:IJ:264:HIS:HB3	1.90	0.52
45:IM:88:HIS:CD2	45:IM:91:GLN:HG3	2.44	0.52
45:JG:175:PRO:HG3	45:JG:390:ARG:NH1	2.25	0.52
45:JG:288:VAL:HG11	45:JG:327:ASP:HB3	1.91	0.52
45:LA:181:VAL:HG23	45:LA:182:VAL:HG13	1.91	0.52
46:LD:31:ASP:OD2	46:LD:37:HIS:ND1	2.41	0.52
45:LE:241:SER:OG	45:LE:250:VAL:O	2.20	0.52
45:LE:242:LEU:HD11	45:LE:252:ILE:HD11	1.90	0.52
46:LL:309:ARG:NH1	46:LL:426:GLN:O	2.42	0.52
46:LL:318:ARG:NE	46:LL:356:ILE:O	2.35	0.52
45:LM:271:SER:HB3	45:LM:377:MET:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MC:398:MET:SD	46:MD:345:ILE:HD12	2.49	0.52
45:MG:147:SER:HB2	45:MG:190:SER:OG	2.08	0.52
45:MK:174:SER:HB3	45:MK:177:VAL:O	2.08	0.52
46:ML:318:ARG:HH11	46:ML:358:PRO:HG3	1.74	0.52
45:MM:68:LEU:HD13	45:MM:93:ILE:HB	1.90	0.52
45:NA:210:TYR:CD2	46:NB:324:LYS:HD3	2.44	0.52
45:NE:118:CYS:O	45:NE:122:ILE:HG12	2.09	0.52
46:NF:116:VAL:HA	46:NF:119:VAL:HG12	1.91	0.52
45:NG:2:ARG:HB2	45:NG:133:GLN:HE22	1.74	0.52
45:NI:89:PRO:HG2	45:OI:280:LYS:HZ2	1.74	0.52
45:NK:181:VAL:HG13	45:NK:182:VAL:HG13	1.92	0.52
45:OE:323:VAL:HG22	45:OE:373:ARG:HG2	1.91	0.52
46:OF:19:LYS:NZ	46:OF:22:GLU:HG3	2.23	0.52
46:OF:156:ARG:NH1	46:OF:195:ASN:O	2.42	0.52
46:OF:200:MET:SD	46:OF:266:PHE:HB2	2.48	0.52
45:OG:60:LYS:NZ	45:OG:86:LEU:O	2.32	0.52
45:OI:178:SER:HB2	46:OJ:347:ASN:ND2	2.24	0.52
45:PK:120:ASP:HB3	45:PK:124:LYS:NZ	2.25	0.52
46:PL:260:PHE:HB2	46:PL:263:LEU:HD13	1.90	0.52
45:PM:427:ALA:HA	45:PM:430:LYS:HG2	1.91	0.52
46:QB:27:GLU:OE2	46:QB:241:ARG:NH1	2.41	0.52
45:QE:332:ILE:HA	45:QE:335:ILE:HG12	1.90	0.52
46:QJ:217:LEU:HD23	46:QJ:219:THR:H	1.74	0.52
46:QL:86:ARG:HD3	46:RL:282:ARG:HH12	1.73	0.52
45:QM:34:GLY:O	45:QM:60:LYS:HG2	2.08	0.52
45:QM:47:ASP:OD1	45:QM:48:ALA:N	2.35	0.52
45:RA:254:GLU:OE2	46:RB:99:ASN:ND2	2.42	0.52
46:RF:344:TRP:HB3	46:RF:430:ALA:HB2	1.91	0.52
45:RG:262:TYR:HB2	45:RG:265:ILE:HG12	1.90	0.52
45:RG:265:ILE:HG22	45:RG:432:TYR:CE1	2.44	0.52
45:SE:72:PRO:HA	45:SE:75:ILE:HG22	1.89	0.52
46:SF:111:GLU:N	46:SF:111:GLU:OE1	2.42	0.52
46:SJ:258:ILE:HD11	45:SK:407:TRP:CZ2	2.42	0.52
45:SK:30:ILE:HD11	45:SK:34:GLY:C	2.30	0.52
45:SK:204:LEU:HD23	45:SK:302:MET:HE1	1.91	0.52
45:SM:75:ILE:HD12	45:SM:75:ILE:H	1.74	0.52
45:TC:101:ASN:HA	45:TC:144:GLY:H	1.75	0.52
45:TC:171:ILE:HG13	45:TC:171:ILE:O	2.08	0.52
45:TG:188:ILE:HD12	45:TG:425:LEU:HD11	1.90	0.52
45:UC:319:TYR:HB3	45:UC:323:VAL:HG11	1.91	0.52
46:UH:73:MET:HA	46:UH:76:VAL:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UH:344:TRP:CD2	45:UI:401:LYS:HE3	2.45	0.52
45:UI:339:ARG:O	45:UI:342:GLN:NE2	2.42	0.52
46:UJ:350:LYS:HE2	45:UK:181:VAL:HG13	1.91	0.52
45:UK:3:GLU:OE2	45:UK:131:GLY:N	2.42	0.52
45:UK:90:GLU:O	45:UK:121:ARG:NH1	2.42	0.52
45:UM:10:GLY:O	45:UM:14:ILE:HG12	2.09	0.52
45:VC:107:HIS:HA	45:VC:152:LEU:HD11	1.90	0.52
45:VE:222:PRO:O	46:VF:324:LYS:HD3	2.09	0.52
45:VG:96:LYS:HE2	46:VH:1:MET:SD	2.48	0.52
46:VH:128:ASP:OD1	46:VH:129:CYS:N	2.42	0.52
45:VK:49:PHE:O	45:VK:53:PHE:N	2.37	0.52
46:VL:163:ILE:HG13	46:VL:251:ARG:HH21	1.72	0.52
46:VN:31:ASP:OD1	46:VN:35:THR:N	2.36	0.52
46:VN:68:LEU:HG	46:VN:96:GLY:H	1.74	0.52
45:WE:349:THR:HG21	46:WH:181:GLU:OE2	2.09	0.52
45:WG:331:SER:O	45:WG:335:ILE:HG12	2.09	0.52
45:WI:145:THR:HG22	47:WI:501:GTP:PG	2.49	0.52
46:WL:65:LEU:HD11	46:WL:85:PHE:CD2	2.43	0.52
45:WM:407:TRP:HE1	46:WN:255:VAL:HG22	1.73	0.52
46:WN:16:ILE:HA	46:WN:226:ASN:HD22	1.74	0.52
46:WN:254:ALA:O	46:WN:258:ILE:HG22	2.10	0.52
45:DC:230:LEU:O	45:DC:234:VAL:HG23	2.09	0.52
19:1J:262:VAL:HB	45:II:370:LYS:HZ2	1.73	0.52
43:8P:269:UNK:C	46:QD:276:ARG:HH22	2.23	0.52
45:AA:135:PHE:HB2	45:AA:166:LYS:HG3	1.92	0.52
45:AM:386:GLU:O	45:AM:390:ARG:HG3	2.09	0.52
45:BE:101:ASN:HD22	45:BE:143:GLY:HA2	1.73	0.52
45:BE:294:SER:HA	45:BE:297:GLU:HG3	1.90	0.52
46:BH:362:LYS:HE2	46:BH:362:LYS:HA	1.91	0.52
46:DH:8:GLN:HE21	46:DH:65:LEU:HD22	1.74	0.52
46:DL:7:ILE:HG13	46:DL:64:ILE:HD13	1.91	0.52
45:EA:268:MET:HB2	45:EA:379:SER:O	2.08	0.52
45:EC:209:ILE:CG2	45:EC:302:MET:HB2	2.38	0.52
45:EE:133:GLN:HG3	45:EE:242:LEU:HD11	1.90	0.52
46:EL:1:MET:SD	46:EL:2:ARG:HG2	2.49	0.52
46:EL:238:CYS:SG	46:EL:239:CYS:N	2.82	0.52
45:EM:55:GLU:OE1	45:EM:61:HIS:NE2	2.42	0.52
45:EM:155:GLU:HA	45:EM:197:HIS:CE1	2.44	0.52
46:FN:12:CYS:HA	46:FN:15:GLN:HE21	1.74	0.52
46:FN:24:ILE:HD12	46:FN:241:ARG:HH12	1.73	0.52
45:GA:217:LEU:HB3	45:GA:219:ILE:HG13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GC:93:ILE:HD11	45:GC:121:ARG:HG3	1.89	0.52
46:GF:213:ARG:HH11	46:GF:216:LYS:HZ3	1.58	0.52
45:GG:184:PRO:O	45:GG:188:ILE:HG12	2.09	0.52
45:GG:387:VAL:HG12	45:GG:390:ARG:NH2	2.23	0.52
45:GI:11:GLN:HG3	45:GI:74:VAL:HG11	1.90	0.52
46:GJ:55:THR:HG23	46:HJ:283:ALA:HA	1.91	0.52
45:HA:174:SER:HB2	45:HA:177:VAL:HB	1.91	0.52
46:HD:406:MET:O	46:HD:410:GLU:HG2	2.09	0.52
46:HL:68:LEU:HB3	46:HL:96:GLY:HA2	1.90	0.52
45:HM:271:SER:HA	45:HM:302:MET:HG2	1.91	0.52
45:IE:272:TYR:HD1	45:IE:275:ILE:HD11	1.74	0.52
45:IK:419:SER:O	45:IK:423:GLU:HG2	2.09	0.52
46:IL:190:HIS:ND1	46:IL:191:GLN:OE1	2.36	0.52
46:IL:295:ASP:OD1	46:IL:297:LYS:HG2	2.09	0.52
46:JB:206:ALA:O	46:JB:210:ILE:HG12	2.09	0.52
45:JC:223:THR:HG23	45:JC:225:THR:H	1.74	0.52
45:KC:172:TYR:OH	45:KC:191:THR:OG1	2.22	0.52
45:KE:17:GLY:HA2	45:KE:20:CYS:SG	2.50	0.52
45:KK:79:ARG:O	45:KK:84:ARG:HG2	2.10	0.52
45:KK:271:SER:HB3	45:KK:377:MET:HB3	1.91	0.52
46:KN:113:ILE:HD13	46:KN:150:LEU:HD22	1.89	0.52
46:KN:423:GLN:OE1	46:KN:426:GLN:NE2	2.42	0.52
45:LA:346:TRP:CD1	46:LD:391:ARG:HG3	2.44	0.52
46:LB:26:ASP:O	46:LB:359:LYS:NZ	2.36	0.52
46:LB:156:ARG:HD3	46:LB:164:MET:HG3	1.91	0.52
45:LE:188:ILE:HD11	45:LE:391:LEU:HB3	1.91	0.52
45:LK:177:VAL:HA	46:LL:331:LEU:HD21	1.92	0.52
45:LK:254:GLU:HG2	46:LN:98:GLY:HA2	1.91	0.52
46:LL:171:PRO:HB2	46:LL:181:GLU:OE2	2.09	0.52
46:LN:91:VAL:HG21	46:LN:116:VAL:HB	1.90	0.52
45:MA:171:ILE:HG13	45:MA:204:LEU:HB2	1.90	0.52
46:MB:113:ILE:HA	46:MB:116:VAL:HG12	1.90	0.52
46:MF:91:VAL:HG21	46:MF:116:VAL:HB	1.91	0.52
45:MG:221:ARG:NH1	46:MH:325:GLU:OE1	2.38	0.52
46:NL:225:LEU:O	46:NL:229:VAL:HG23	2.08	0.52
46:OH:130:LEU:HD21	46:OH:133:PHE:CE1	2.44	0.52
45:OI:8:HIS:CD2	45:OI:17:GLY:HA3	2.43	0.52
45:OK:320:ARG:CZ	45:OK:360:PRO:HA	2.38	0.52
45:OM:141:VAL:HG22	45:OM:187:SER:HA	1.90	0.52
46:PD:97:ALA:HA	46:PD:103:LYS:HD2	1.91	0.52
45:PK:141:VAL:HG11	45:PK:172:TYR:HD1	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QH:46:ARG:NH2	45:QI:76:ASP:OD2	2.39	0.52
45:QI:239:THR:HG23	45:QI:243:ARG:HE	1.73	0.52
45:QI:319:TYR:HB3	45:QI:323:VAL:HG11	1.91	0.52
45:RG:209:ILE:HD12	45:RG:227:LEU:HB3	1.91	0.52
46:RL:153:SER:HB2	46:RL:191:GLN:NE2	2.23	0.52
46:RL:255:VAL:HG21	45:RM:100:ALA:O	2.09	0.52
46:RL:320:ARG:NH1	46:RL:355:ASP:O	2.39	0.52
46:SB:324:LYS:HD2	45:SC:222:PRO:HG2	1.91	0.52
45:SC:102:ASN:HB3	45:SC:105:ARG:HG3	1.90	0.52
45:SE:102:ASN:ND2	45:SE:105:ARG:HG3	2.24	0.52
46:SF:257:LEU:HD21	46:SF:314:SER:HB3	1.92	0.52
45:SG:69:ASP:OD1	45:SG:70:LEU:N	2.42	0.52
46:SH:148:GLY:O	46:SH:152:ILE:HD12	2.09	0.52
45:SK:79:ARG:C	45:SK:84:ARG:HG2	2.30	0.52
45:SM:97:GLU:HG2	45:SM:105:ARG:HH22	1.73	0.52
45:SM:231:ILE:O	45:SM:235:ILE:HD12	2.08	0.52
45:TG:332:ILE:HD12	45:TG:351:PHE:CD2	2.44	0.52
46:TL:116:VAL:O	46:TL:120:VAL:HG23	2.09	0.52
45:UC:79:ARG:NH2	45:UC:89:PRO:O	2.41	0.52
45:UG:260:VAL:HB	46:UH:397:TRP:HZ2	1.75	0.52
45:UM:70:LEU:HD13	45:UM:95:GLY:HA3	1.90	0.52
45:UM:121:ARG:NE	45:UM:124:LYS:HE3	2.25	0.52
46:UN:178:THR:O	46:UN:181:GLU:HG2	2.10	0.52
45:VA:88:HIS:HD2	45:VA:90:GLU:HG3	1.74	0.52
45:VK:336:LYS:O	45:VK:339:ARG:NH2	2.42	0.52
46:WB:376:GLU:OE2	46:WB:380:ARG:NE	2.42	0.52
46:WF:189:VAL:HG22	46:WF:415:MET:HE1	1.91	0.52
45:WI:329:ASN:HA	45:WI:332:ILE:HG12	1.90	0.52
46:WJ:86:ARG:HG3	46:WJ:88:ASP:OD1	2.09	0.52
45:WK:107:HIS:HA	45:WK:152:LEU:HD11	1.90	0.52
45:WK:326:LYS:HD2	45:WK:326:LYS:N	2.24	0.52
46:WN:239:CYS:SG	46:WN:247:ASN:HA	2.49	0.52
1:0A:35:TYR:H	46:MB:320:ARG:NH2	2.05	0.52
1:0A:36:ARG:HE	45:MA:77:GLU:HG2	1.75	0.52
9:2N:15:ARG:HG2	46:IB:45:GLU:OE2	2.09	0.52
23:2O:368:GLU:HG3	45:VC:370:LYS:HZ3	1.74	0.52
14:2V:142:ILE:HD11	45:LG:402:ARG:HE	1.73	0.52
26:2W:266:LEU:HD21	45:LK:370:LYS:H	1.72	0.52
23:3O:271:ALA:HB1	45:UM:278:ALA:HB1	1.91	0.52
33:4F:141:ARG:CZ	45:IK:357:TYR:HB2	2.39	0.52
34:4R:469:LYS:HZ2	34:4R:472:GLU:HA	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5H:78:LEU:HA	37:5H:81:MET:SD	2.49	0.52
37:5H:113:LEU:HD22	45:NM:84:ARG:HD3	1.91	0.52
10:5Q:92:GLN:O	10:5Q:152:LEU:N	2.41	0.52
39:6F:130:SER:O	46:IH:359:LYS:NZ	2.39	0.52
10:6Q:1:MET:O	10:6Q:3:LYS:NZ	2.39	0.52
10:6Q:104:ARG:HH12	10:6Q:157:HIS:CD2	2.27	0.52
45:AI:328:VAL:O	45:AI:332:ILE:HG12	2.10	0.52
46:AJ:268:ILE:HG13	46:AJ:300:MET:HG3	1.89	0.52
45:AM:358:GLN:NE2	45:AM:359:PRO:O	2.42	0.52
46:AN:83:GLN:O	46:AN:86:ARG:NH2	2.38	0.52
45:BA:242:LEU:HD11	45:BA:252:ILE:HG23	1.91	0.52
45:BE:275:ILE:HA	45:BE:368:LEU:HD11	1.91	0.52
46:BJ:18:ALA:O	46:BJ:22:GLU:HG3	2.09	0.52
45:BK:150:GLY:O	45:BK:154:LEU:HD23	2.09	0.52
45:BM:216:ASN:HB3	45:BM:275:ILE:O	2.10	0.52
46:CB:381:VAL:HA	46:CB:384:GLN:HG2	1.91	0.52
46:CF:12:CYS:O	46:CF:16:ILE:HG12	2.10	0.52
45:CG:55:GLU:HG3	45:CG:57:GLY:H	1.74	0.52
46:CH:209:ASP:OD1	46:CH:213:ARG:HD3	2.08	0.52
45:CI:206:ASN:OD1	47:CI:501:GTP:N2	2.41	0.52
46:CL:325:GLU:OE1	45:CM:221:ARG:NH1	2.42	0.52
45:CM:174:SER:HB2	45:CM:177:VAL:O	2.10	0.52
45:CM:207:GLU:HA	45:CM:210:TYR:CG	2.44	0.52
45:DA:36:MET:HB3	45:DA:61:HIS:CE1	2.44	0.52
46:DB:97:ALA:HA	46:DB:103:LYS:HG2	1.91	0.52
46:DD:334:GLN:HA	46:DD:341:PHE:HE2	1.73	0.52
45:DE:174:SER:HB3	45:DE:177:VAL:O	2.10	0.52
46:DF:332:ASN:OD1	46:DF:336:LYS:HD2	2.10	0.52
45:DI:74:VAL:HG23	45:DI:75:ILE:HD12	1.92	0.52
45:DM:231:ILE:O	45:DM:235:ILE:HG12	2.10	0.52
46:EB:318:ARG:HB3	46:EB:357:PRO:HA	1.90	0.52
45:FA:231:ILE:O	45:FA:235:ILE:HG12	2.09	0.52
45:FI:101:ASN:HD22	46:FJ:252:LYS:HD2	1.74	0.52
46:FL:97:ALA:HA	46:FL:103:LYS:HD2	1.91	0.52
46:FN:260:PHE:HB2	46:FN:263:LEU:HD13	1.89	0.52
46:GB:260:PHE:HB2	46:GB:263:LEU:HD13	1.92	0.52
46:GF:148:GLY:O	46:GF:152:ILE:HG12	2.09	0.52
45:GK:155:GLU:HA	45:GK:197:HIS:CE1	2.44	0.52
46:HD:2:ARG:HB2	46:HD:131:GLN:NE2	2.25	0.52
46:HD:179:VAL:HG23	46:HD:180:VAL:HG23	1.91	0.52
46:IB:282:ARG:NH2	46:IB:292:GLN:OE1	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IE:324:VAL:HG11	45:IE:326:LYS:NZ	2.24	0.52
46:IF:273:LEU:H	46:IF:292:GLN:NE2	2.04	0.52
46:IH:148:GLY:O	46:IH:152:ILE:HG12	2.09	0.52
45:IM:392:ASP:OD1	45:IM:422:ARG:NE	2.41	0.52
45:JA:259:LEU:HD21	45:JA:316:SER:HB3	1.91	0.52
45:JA:387:VAL:HA	45:JA:390:ARG:HG2	1.91	0.52
45:JC:286:LEU:N	45:JC:290:GLU:OE1	2.42	0.52
46:JD:290:THR:HA	46:JD:293:MET:HG3	1.90	0.52
45:JE:335:ILE:O	45:JE:338:LYS:HG2	2.09	0.52
45:JI:17:GLY:HA2	45:JI:20:CYS:SG	2.49	0.52
46:JJ:213:ARG:NH2	46:JJ:297:LYS:HB3	2.24	0.52
46:KB:150:LEU:O	46:KB:154:LYS:HG2	2.10	0.52
45:KI:325:PRO:HA	45:KI:328:VAL:HG22	1.91	0.52
45:KM:136:LEU:HD23	45:KM:167:LEU:HB2	1.91	0.52
46:KN:207:LEU:HB3	46:KN:225:LEU:HD22	1.91	0.52
45:LA:288:VAL:HA	45:LA:291:ILE:HG12	1.90	0.52
46:LD:380:ARG:O	46:LD:383:GLU:HG3	2.08	0.52
46:LH:73:MET:CE	46:LH:90:PHE:HB3	2.39	0.52
45:MA:11:GLN:NE2	46:MB:245:GLN:O	2.42	0.52
46:MB:207:LEU:HB3	46:MB:225:LEU:HD22	1.91	0.52
45:MI:427:ALA:O	45:MI:430:LYS:HB3	2.10	0.52
46:MN:200:MET:HG3	46:MN:266:PHE:HB2	1.91	0.52
45:NC:88:HIS:HD2	45:NC:90:GLU:HG3	1.74	0.52
45:OA:27:GLU:HG2	45:OA:361:THR:HG21	1.91	0.52
45:OA:31:GLN:NE2	45:OA:35:GLN:O	2.42	0.52
45:OA:256:GLN:HG2	46:OD:397:TRP:CH2	2.40	0.52
45:OC:121:ARG:CZ	45:OC:124:LYS:HD2	2.40	0.52
46:OL:186:THR:HA	46:OL:189:VAL:HG12	1.91	0.52
45:OM:328:VAL:HG11	45:OM:353:VAL:HG21	1.91	0.52
45:PC:2:ARG:NH2	45:PC:242:LEU:O	2.43	0.52
46:PD:2:ARG:HB2	46:PD:131:GLN:HE21	1.74	0.52
45:PE:210:TYR:HD1	46:PF:324:LYS:HG3	1.74	0.52
46:PF:272:PRO:HB2	46:PF:282:ARG:HH22	1.73	0.52
45:PG:276:ILE:HD11	45:PG:280:LYS:HG3	1.91	0.52
45:PG:298:PRO:HA	45:PG:301:MET:HE1	1.91	0.52
45:PI:384:ILE:O	45:PI:387:VAL:HG22	2.10	0.52
45:PM:90:GLU:HG3	45:PM:121:ARG:HH22	1.74	0.52
46:QB:150:LEU:HB2	46:QB:154:LYS:NZ	2.24	0.52
46:QL:273:LEU:N	46:QL:292:GLN:HE22	2.02	0.52
46:QN:67:ASP:O	46:QN:92:PHE:HA	2.09	0.52
45:RE:296:PHE:CE2	45:RE:335:ILE:HD12	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RF:287:PRO:HA	46:RF:329:GLN:NE2	2.24	0.52
46:RH:221:THR:HG23	46:RH:224:ASP:H	1.75	0.52
46:RJ:183:TYR:HD1	46:RJ:385:PHE:CE1	2.27	0.52
46:RL:153:SER:HB2	46:RL:191:GLN:HE22	1.75	0.52
46:RN:86:ARG:NH1	46:SN:278:SER:HA	2.25	0.52
46:SB:117:LEU:HD12	46:SB:154:LYS:HE2	1.91	0.52
46:SD:54:ALA:HA	46:TD:283:ALA:HB2	1.90	0.52
46:SJ:289:LEU:HD13	46:SJ:365:VAL:HG23	1.91	0.52
46:SL:200:MET:CE	46:SL:266:PHE:HB2	2.39	0.52
45:SM:91:GLN:HB3	45:SM:121:ARG:CZ	2.40	0.52
45:TG:56:THR:HG23	45:TG:58:ALA:H	1.74	0.52
46:TH:138:SER:HA	46:TH:169:VAL:HB	1.92	0.52
45:TI:101:ASN:HA	45:TI:144:GLY:H	1.75	0.52
45:TM:11:GLN:H	47:TM:501:GTP:PB	2.32	0.52
45:UA:340:THR:HG23	45:UA:341:ILE:HG13	1.91	0.52
46:UB:22:GLU:HG2	46:UB:81:PHE:HB2	1.92	0.52
46:UD:254:ALA:O	46:UD:258:ILE:HG22	2.09	0.52
45:UE:227:LEU:O	45:UE:231:ILE:HG12	2.10	0.52
45:UE:287:SER:O	45:UE:290:GLU:HG2	2.10	0.52
46:UJ:148:GLY:O	46:UJ:152:ILE:HG12	2.08	0.52
46:VB:44:LEU:HA	46:VB:47:ILE:HG23	1.91	0.52
45:VC:222:PRO:O	46:VD:324:LYS:HD3	2.09	0.52
46:VD:77:ARG:NH2	46:VD:83:GLN:OE1	2.42	0.52
46:VD:217:LEU:HB2	46:VD:220:PRO:HG3	1.91	0.52
45:VE:90:GLU:OE2	45:VE:121:ARG:NH1	2.42	0.52
45:VI:346:TRP:CD1	46:VL:391:ARG:HG3	2.44	0.52
46:VL:55:THR:HG23	46:WL:283:ALA:HA	1.91	0.52
46:WB:376:GLU:HA	46:WB:379:LYS:HE2	1.92	0.52
46:WJ:167:PHE:CZ	46:WJ:200:MET:HG3	2.45	0.52
45:WK:311:LYS:HD2	45:WK:343:PHE:C	2.30	0.52
46:WN:290:THR:HA	46:WN:293:MET:HG3	1.91	0.52
46:WN:309:ARG:N	46:WN:372:THR:OG1	2.38	0.52
1:1A:131:ILE:HD13	46:AF:39:ASP:HB3	1.90	0.52
14:1V:122:LYS:HD3	46:LL:390:ARG:NH1	2.25	0.52
14:1V:133:TYR:CD2	46:LL:421:GLU:HA	2.43	0.52
36:5D:108:ARG:NH2	45:KM:396:ASP:OD2	2.39	0.52
40:6G:84:VAL:HB	40:6G:85:PRO:HD2	1.89	0.52
10:6Q:20:LYS:NZ	10:6Q:22:LEU:H	2.07	0.52
34:6R:389:ASN:OD1	34:6R:390:GLY:N	2.43	0.52
46:BB:178:THR:HB	46:BB:181:GLU:HG3	1.90	0.52
45:BE:36:MET:HG3	45:BE:37:PRO:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BE:339:ARG:O	45:BE:342:GLN:NE2	2.42	0.52
46:BF:344:TRP:CE3	46:BF:345:ILE:HG23	2.45	0.52
46:BJ:102:ALA:HB1	46:BJ:401:GLU:OE2	2.10	0.52
46:BL:167:PHE:CE1	46:BL:233:MET:HG2	2.45	0.52
46:BN:86:ARG:HE	46:BN:87:PRO:CD	2.18	0.52
45:CC:120:ASP:OD2	45:CC:121:ARG:NH2	2.41	0.52
45:CC:384:ILE:O	45:CC:387:VAL:HG12	2.09	0.52
46:CH:268:ILE:HG22	46:CH:368:VAL:HG22	1.90	0.52
45:CI:258:ASN:ND2	45:CI:352:LYS:HE3	2.24	0.52
46:CL:175:VAL:HG22	46:CL:205:GLU:HB3	1.90	0.52
46:DF:260:PHE:HB2	46:DF:263:LEU:HD13	1.91	0.52
45:EE:88:HIS:CD2	45:EE:89:PRO:HD2	2.45	0.52
45:EI:188:ILE:HD12	45:EI:425:LEU:HD11	1.91	0.52
45:EI:212:ILE:HD11	45:EI:300:ASN:HA	1.91	0.52
46:EJ:257:LEU:HD12	46:EJ:312:THR:HG23	1.91	0.52
46:EJ:318:ARG:HD3	46:EJ:358:PRO:HD3	1.91	0.52
45:EM:109:THR:HG22	45:EM:110:ILE:HG23	1.90	0.52
46:EN:54:ALA:HA	46:FN:283:ALA:HB2	1.92	0.52
45:FA:24:PHE:CZ	45:FA:52:PHE:HE2	2.27	0.52
45:FA:55:GLU:HG3	45:FA:57:GLY:H	1.74	0.52
45:FE:326:LYS:HD3	46:FH:219:THR:HG23	1.90	0.52
45:FG:71:GLU:OE2	45:FG:73:THR:OG1	2.28	0.52
45:FI:288:VAL:HB	45:FI:373:ARG:HH22	1.74	0.52
46:FJ:44:LEU:HA	46:FJ:47:ILE:HG12	1.91	0.52
45:GG:285:GLN:HE22	45:GG:287:SER:HB2	1.74	0.52
46:GL:116:VAL:O	46:GL:120:VAL:HG23	2.10	0.52
45:HC:268:MET:HB2	45:HC:379:SER:O	2.10	0.52
46:HD:86:ARG:HB3	46:HD:89:ASN:OD1	2.08	0.52
46:HF:378:PHE:HA	46:HF:381:VAL:HG22	1.90	0.52
46:HF:407:GLU:OE1	46:HF:407:GLU:N	2.35	0.52
46:HJ:318:ARG:HH11	46:HJ:358:PRO:HG3	1.75	0.52
45:HK:184:PRO:O	45:HK:188:ILE:HG12	2.09	0.52
46:HL:313:ALA:HB1	46:HL:367:PHE:HE1	1.74	0.52
46:IB:198:GLU:HG2	46:IB:266:PHE:HE2	1.75	0.52
46:ID:164:MET:HE3	46:ID:196:ALA:HA	1.91	0.52
46:IH:309:ARG:NH2	46:IH:426:GLN:O	2.35	0.52
46:IJ:280:GLN:OE1	46:IJ:280:GLN:N	2.42	0.52
46:JD:8:GLN:OE1	46:JD:17:GLY:HA3	2.09	0.52
46:JF:8:GLN:HE21	46:JF:14:ASN:HA	1.75	0.52
46:JF:55:THR:HG23	46:KF:283:ALA:HA	1.90	0.52
45:JG:117:LEU:HB3	45:JG:121:ARG:HH12	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JI:119:LEU:HD11	45:JI:156:ARG:HB3	1.92	0.52
45:JI:147:SER:HB2	45:JI:190:SER:HB2	1.92	0.52
45:KC:88:HIS:NE2	45:LC:284:GLU:OE2	2.40	0.52
45:LA:171:ILE:O	45:LA:171:ILE:HG13	2.10	0.52
45:LG:265:ILE:HG22	45:LG:380:ASN:HD21	1.74	0.52
45:LI:259:LEU:HD21	45:LI:268:MET:HG2	1.92	0.52
46:MH:262:ARG:NH1	46:MH:421:GLU:OE1	2.43	0.52
46:MJ:133:PHE:HB2	46:MJ:164:MET:SD	2.49	0.52
45:NA:88:HIS:CE1	45:NA:90:GLU:HB2	2.44	0.52
46:NB:179:VAL:HG13	46:NB:180:VAL:HG13	1.90	0.52
46:NB:312:THR:HG22	46:NB:370:ASN:HB3	1.91	0.52
45:NC:141:VAL:HG22	45:NC:187:SER:HA	1.91	0.52
45:NG:325:PRO:HB2	46:NJ:208:TYR:OH	2.10	0.52
45:NI:192:HIS:CE1	45:NI:424:ASP:OD2	2.62	0.52
45:NI:419:SER:O	45:NI:423:GLU:HG2	2.10	0.52
46:NJ:4:ILE:HG13	46:NJ:132:GLY:O	2.10	0.52
46:NN:135:ILE:HD12	46:NN:152:ILE:HD11	1.90	0.52
46:OF:178:THR:O	46:OF:181:GLU:HG2	2.09	0.52
45:OG:175:PRO:HG2	45:OG:304:LYS:HD2	1.91	0.52
46:OJ:203:ASP:OD2	46:OJ:302:ALA:N	2.38	0.52
45:OM:210:TYR:CE1	46:ON:324:LYS:HB3	2.44	0.52
46:PB:334:GLN:HA	46:PB:341:PHE:CE2	2.45	0.52
45:PG:181:VAL:N	46:PH:350:LYS:HZ3	2.06	0.52
46:PJ:139:LEU:HD12	46:PJ:170:VAL:HG12	1.90	0.52
46:QD:68:LEU:HD22	46:QD:97:ALA:HB2	1.91	0.52
45:QI:211:ASP:HA	45:QI:214:ARG:HG2	1.92	0.52
46:QJ:418:LEU:HD12	46:QJ:421:GLU:OE2	2.09	0.52
45:RC:195:LEU:HD23	45:RC:196:GLU:HG3	1.91	0.52
46:RH:20:PHE:HA	46:RH:230:SER:OG	2.09	0.52
46:RH:222:TYR:HA	46:RH:225:LEU:HG	1.90	0.52
45:RM:242:LEU:HD11	45:RM:252:ILE:HG13	1.92	0.52
46:RN:87:PRO:HA	46:RN:90:PHE:CD2	2.42	0.52
45:SC:181:VAL:HG23	45:SC:182:VAL:HG13	1.90	0.52
45:SM:292:THR:HG21	45:SM:331:SER:HB3	1.90	0.52
46:TD:97:ALA:HB3	46:TD:143:THR:HB	1.91	0.52
46:TD:148:GLY:O	46:TD:151:LEU:HG	2.10	0.52
46:TD:258:ILE:HD11	45:TE:407:TRP:HZ2	1.73	0.52
46:TH:119:VAL:O	46:TH:122:LYS:HG3	2.10	0.52
46:TH:405:GLU:HA	46:TH:408:PHE:HD1	1.74	0.52
45:TI:102:ASN:ND2	45:TI:105:ARG:HG3	2.24	0.52
45:TI:141:VAL:HG11	45:TI:172:TYR:CD1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TL:208:TYR:HE2	46:TL:225:LEU:HD11	1.74	0.52
46:TN:166:THR:HG21	46:TN:192:LEU:HD11	1.91	0.52
45:UC:251:ASP:OD1	45:UC:252:ILE:N	2.42	0.52
45:UE:230:LEU:O	45:UE:234:VAL:HG23	2.09	0.52
45:VA:343:PHE:CZ	45:VA:351:PHE:HE1	2.27	0.52
46:VF:6:HIS:NE2	46:VF:8:GLN:OE1	2.43	0.52
46:VF:287:PRO:HA	46:VF:329:GLN:HE22	1.74	0.52
46:VF:318:ARG:HB3	46:VF:357:PRO:HA	1.90	0.52
45:VM:408:TYR:HD2	45:VM:418:PHE:HZ	1.56	0.52
46:VN:198:GLU:HG2	46:VN:266:PHE:HE2	1.72	0.52
46:VN:284:LEU:HD12	46:VN:289:LEU:HD21	1.92	0.52
46:WB:207:LEU:HD13	46:WB:225:LEU:HB2	1.90	0.52
46:WF:73:MET:HE2	46:WF:92:PHE:HB3	1.92	0.52
45:WG:7:ILE:HB	45:WG:137:VAL:HG12	1.91	0.52
45:WG:56:THR:HG23	45:WG:58:ALA:H	1.74	0.52
45:WK:222:PRO:HD2	46:WL:324:LYS:HG3	1.90	0.52
17:1F:23:THR:N	46:HL:320:ARG:HH12	2.07	0.52
25:1R:454:ARG:HH21	46:FD:219:THR:CG2	2.19	0.52
9:2N:16:ILE:HG22	46:IB:48:ASN:HD22	1.73	0.52
24:2P:384:SER:HB3	45:TM:370:LYS:HE2	1.90	0.52
27:4C:65:PHE:CZ	45:LM:33:ASP:HB2	2.45	0.52
35:4S:154:SER:HB3	35:4S:157:ILE:HG22	1.91	0.52
37:5H:56:VAL:HG22	46:ON:276:ARG:HD3	1.92	0.52
34:5R:469:LYS:NZ	34:5R:472:GLU:HA	2.24	0.52
41:6H:167:LYS:HZ2	46:FB:362:LYS:H	1.58	0.52
44:8R:122:ALA:HA	44:8R:125:TYR:CD2	2.44	0.52
46:AF:6:HIS:HE1	46:AF:8:GLN:HB3	1.75	0.52
46:AF:31:ASP:OD2	46:AF:35:THR:OG1	2.27	0.52
46:AJ:39:ASP:OD1	46:AJ:40:SER:N	2.43	0.52
45:BA:10:GLY:O	45:BA:14:ILE:HD12	2.09	0.52
46:BF:65:LEU:HD22	46:BF:90:PHE:CE1	2.43	0.52
46:BH:68:LEU:HB3	46:BH:96:GLY:HA2	1.92	0.52
46:BL:72:THR:O	46:BL:75:SER:OG	2.25	0.52
46:CF:148:GLY:O	46:CF:152:ILE:HG12	2.08	0.52
45:CG:395:PHE:HZ	45:CG:418:PHE:HB3	1.75	0.52
46:CN:292:GLN:O	46:CN:298:ASN:ND2	2.36	0.52
46:CN:299:MET:HG3	46:CN:305:PRO:HG3	1.91	0.52
45:DA:244:PHE:HB2	45:DA:356:ASN:HD21	1.74	0.52
46:DL:251:ARG:NH1	45:DM:97:GLU:OE2	2.43	0.52
45:DM:182:VAL:HG12	45:DM:404:PHE:CD2	2.45	0.52
46:ED:164:MET:HB2	46:ED:197:ASP:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FF:21:TRP:CZ2	46:FF:63:ALA:HB2	2.44	0.52
45:GC:417:GLU:HA	45:GC:420:GLU:HG2	1.91	0.52
45:GE:155:GLU:OE1	45:GE:197:HIS:NE2	2.42	0.52
46:GF:248:SER:HA	46:GF:252:LYS:HD2	1.92	0.52
45:HI:101:ASN:HA	45:HI:144:GLY:H	1.73	0.52
45:HK:119:LEU:HA	45:HK:122:ILE:HD12	1.91	0.52
45:IE:10:GLY:O	45:IE:14:ILE:HG12	2.09	0.52
45:IG:31:GLN:NE2	45:IG:37:PRO:HB3	2.24	0.52
45:IM:90:GLU:OE2	45:IM:121:ARG:NH1	2.43	0.52
45:JG:175:PRO:HB2	45:JG:176:GLN:OE1	2.10	0.52
46:JH:296:ALA:HB1	46:JH:305:PRO:HD2	1.91	0.52
46:JN:16:ILE:HD12	46:JN:229:VAL:HG11	1.92	0.52
46:KB:68:LEU:HD23	46:KB:112:LEU:HD13	1.91	0.52
46:KD:208:TYR:HE1	46:KD:225:LEU:HD11	1.73	0.52
45:KG:431:ASP:O	45:KG:435:VAL:HG23	2.09	0.52
45:KI:17:GLY:HA2	45:KI:20:CYS:SG	2.50	0.52
46:KJ:326:VAL:O	46:KJ:330:MET:HG2	2.09	0.52
45:KK:90:GLU:HG3	45:KK:121:ARG:NH1	2.25	0.52
45:KK:377:MET:O	45:KK:378:ILE:HD13	2.10	0.52
45:KM:387:VAL:HG12	45:KM:390:ARG:HH22	1.75	0.52
46:KN:19:LYS:NZ	46:KN:223:GLY:O	2.33	0.52
45:LC:88:HIS:CE1	45:LC:90:GLU:HG2	2.45	0.52
45:LC:221:ARG:NH2	46:LD:321:MET:HA	2.16	0.52
45:LM:107:HIS:ND1	45:LM:107:HIS:O	2.43	0.52
46:MB:420:SER:O	46:MB:423:GLN:HG3	2.08	0.52
45:MC:296:PHE:HD2	45:MC:341:ILE:HD13	1.75	0.52
45:ME:210:TYR:HB3	46:MF:324:LYS:HZ3	1.75	0.52
46:MF:201:VAL:HG23	46:MF:301:CYS:SG	2.49	0.52
45:MG:362:VAL:HB	45:MG:370:LYS:HB3	1.90	0.52
45:MI:259:LEU:HD21	45:MI:316:SER:HB2	1.91	0.52
45:NC:11:GLN:NE2	46:ND:245:GLN:O	2.42	0.52
45:NG:102:ASN:OD1	45:NG:105:ARG:N	2.37	0.52
46:OB:318:ARG:HD3	46:OB:358:PRO:HD3	1.91	0.52
45:OC:310:GLY:HA3	45:OC:383:ALA:HB2	1.91	0.52
46:OL:263:LEU:HD22	46:OL:422:TYR:HD1	1.74	0.52
45:PE:141:VAL:HG11	45:PE:172:TYR:HA	1.90	0.52
45:PI:100:ALA:HA	46:PJ:252:LYS:HG2	1.90	0.52
45:PK:296:PHE:HE1	45:PK:377:MET:HG3	1.73	0.52
45:PK:387:VAL:HA	45:PK:390:ARG:HG2	1.90	0.52
45:PM:170:THR:O	45:PM:204:LEU:HB2	2.09	0.52
45:QA:118:CYS:O	45:QA:122:ILE:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QK:121:ARG:CZ	45:QK:121:ARG:HA	2.40	0.52
45:QM:83:TYR:HB3	45:QM:86:LEU:HD12	1.90	0.52
46:QN:260:PHE:HB2	46:QN:263:LEU:HD13	1.91	0.52
46:RF:20:PHE:HA	46:RF:230:SER:OG	2.10	0.52
46:RF:101:TRP:HB2	46:RF:184:ASN:HB3	1.92	0.52
46:RF:258:ILE:HG13	45:RG:407:TRP:CZ2	2.44	0.52
45:RI:30:ILE:HA	45:RI:36:MET:HE3	1.91	0.52
46:RJ:347:ASN:HD21	45:RK:178:SER:CB	2.21	0.52
45:RK:20:CYS:HA	45:RK:232:ALA:HB1	1.90	0.52
46:RN:42:LEU:HA	46:RN:45:GLU:HG3	1.91	0.52
45:SA:211:ASP:HB3	45:SA:215:ARG:HH12	1.74	0.52
46:SB:178:THR:HB	46:SB:181:GLU:HG3	1.91	0.52
46:SB:215:LEU:HD21	46:SB:273:LEU:HD12	1.91	0.52
45:SC:270:SER:O	45:SC:302:MET:HG3	2.09	0.52
46:SH:217:LEU:HD23	46:SH:219:THR:H	1.75	0.52
46:SH:258:ILE:O	46:SH:258:ILE:HG13	2.10	0.52
45:SI:319:TYR:HB3	45:SI:323:VAL:HG11	1.90	0.52
46:SJ:152:ILE:O	46:SJ:156:ARG:HG2	2.09	0.52
45:TG:98:ASP:OD2	45:TG:99:ALA:N	2.42	0.52
46:TH:55:THR:HG23	46:UH:283:ALA:HA	1.92	0.52
45:TI:111:GLY:O	45:TI:115:VAL:HG13	2.09	0.52
45:TM:91:GLN:HE21	45:TM:121:ARG:CZ	2.23	0.52
45:UG:288:VAL:HG13	45:UG:373:ARG:NH2	2.23	0.52
45:UI:231:ILE:O	45:UI:235:ILE:HG12	2.09	0.52
46:UJ:268:ILE:HG22	46:UJ:368:VAL:HA	1.92	0.52
45:UM:322:ASP:OD1	45:UM:373:ARG:NH1	2.42	0.52
46:UN:116:VAL:HA	46:UN:119:VAL:HG12	1.91	0.52
46:VB:245:GLN:CD	46:VB:245:GLN:H	2.12	0.52
46:VD:273:LEU:H	46:VD:292:GLN:NE2	2.08	0.52
46:VN:313:ALA:HB1	46:VN:367:PHE:HE1	1.74	0.52
45:WG:50:ASN:O	45:WG:64:ARG:NH1	2.32	0.52
45:WG:215:ARG:NH2	45:WG:299:ALA:HB1	2.23	0.52
46:WJ:63:ALA:O	46:WJ:89:ASN:ND2	2.43	0.52
45:DC:426:ALA:HB1	45:DC:430:LYS:NZ	2.23	0.52
3:0C:53:TYR:HB3	45:EI:221:ARG:NH2	2.24	0.52
14:0V:46:PRO:HG2	45:LM:114:ILE:HD11	1.91	0.52
14:2V:71:PHE:O	46:MF:306:ARG:HD3	2.09	0.52
31:3I:197:GLN:HE22	45:FK:127:ASP:N	2.07	0.52
36:5A:90:GLN:NE2	36:5A:98:LEU:H	2.07	0.52
36:5A:138:ARG:NH1	46:ND:357:PRO:HD2	2.22	0.52
34:5R:367:GLN:NE2	34:5R:368:GLN:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:6G:249:TRP:NE1	46:VD:340:TYR:OH	2.42	0.52
10:6Q:44:SER:OG	10:6Q:163:ARG:NH1	2.42	0.52
45:AK:205:ASP:OD2	45:AK:303:ALA:HA	2.08	0.52
45:AM:69:ASP:OD1	45:AM:70:LEU:N	2.43	0.52
46:BD:86:ARG:HG3	46:BD:88:ASP:H	1.72	0.52
45:BG:332:ILE:HD11	45:BG:351:PHE:CG	2.45	0.52
45:CA:254:GLU:HG3	46:CB:98:GLY:HA2	1.91	0.52
46:CB:187:LEU:HD11	46:CB:408:PHE:HE1	1.74	0.52
46:DB:375:GLN:HG3	46:DB:419:VAL:HG13	1.91	0.52
46:DH:254:ALA:O	46:DH:258:ILE:HG12	2.10	0.52
46:DH:260:PHE:HB2	46:DH:263:LEU:HD13	1.91	0.52
45:DK:71:GLU:OE1	45:DK:73:THR:OG1	2.27	0.52
46:EB:260:PHE:HB2	46:EB:263:LEU:HD13	1.92	0.52
46:ED:325:GLU:HB2	45:EE:221:ARG:NH1	2.24	0.52
45:EI:345:ASP:OD1	45:EI:346:TRP:N	2.43	0.52
45:FK:137:VAL:HG23	45:FK:168:GLY:HA2	1.92	0.52
45:GA:33:ASP:HA	45:GA:85:GLN:HE21	1.74	0.52
46:GB:221:THR:HG23	46:GB:224:ASP:H	1.73	0.52
45:GE:77:GLU:HA	45:GE:80:THR:HG22	1.91	0.52
45:GI:221:ARG:NH2	46:GJ:325:GLU:OE2	2.43	0.52
46:GL:32:PRO:HA	46:GL:84:LEU:HD11	1.92	0.52
46:GL:139:LEU:HD12	46:GL:170:VAL:HG12	1.91	0.52
45:GM:265:ILE:HG22	45:GM:380:ASN:HD21	1.75	0.52
46:HB:309:ARG:NH2	46:HB:426:GLN:O	2.36	0.52
46:HF:66:MET:HE1	46:HF:147:MET:HG2	1.92	0.52
45:HG:257:THR:HA	46:HJ:397:TRP:CZ2	2.44	0.52
46:HN:175:VAL:HG22	46:HN:205:GLU:HB3	1.91	0.52
45:IC:8:HIS:HB2	45:IC:67:PHE:HD2	1.74	0.52
45:IE:179:THR:HG21	46:IF:246:LEU:HD23	1.91	0.52
45:IG:280:LYS:HE2	45:IG:283:HIS:HB2	1.92	0.52
46:IH:287:PRO:HA	46:IH:329:GLN:NE2	2.23	0.52
45:IM:3:GLU:OE2	45:IM:131:GLY:N	2.42	0.52
46:JB:86:ARG:HD3	46:JB:88:ASP:HB2	1.92	0.52
46:JB:378:PHE:HA	46:JB:381:VAL:HG12	1.91	0.52
45:JG:218:ASP:OD2	45:JG:280:LYS:NZ	2.37	0.52
46:JL:404:ASP:O	46:JL:407:GLU:HG2	2.10	0.52
45:JM:88:HIS:CE1	45:KM:280:LYS:HZ1	2.28	0.52
45:JM:119:LEU:HA	45:JM:122:ILE:HG22	1.90	0.52
46:JN:5:VAL:HG12	46:JN:62:ARG:HD3	1.91	0.52
45:LA:19:ALA:O	45:LA:22:GLU:HG3	2.10	0.52
46:LF:207:LEU:HB3	46:LF:225:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LK:399:TYR:O	45:LK:402:ARG:NH1	2.41	0.52
46:MD:67:ASP:O	46:MD:92:PHE:HA	2.08	0.52
46:MD:151:LEU:O	46:MD:155:VAL:HG22	2.09	0.52
45:MG:263:PRO:HD3	46:MJ:396:HIS:CE1	2.44	0.52
45:MK:258:ASN:HD22	45:MK:352:LYS:HD2	1.74	0.52
45:MM:133:GLN:HB3	45:MM:252:ILE:HG21	1.92	0.52
45:NA:108:TYR:O	45:NA:112:LYS:NZ	2.43	0.52
45:NA:210:TYR:CE2	46:NB:324:LYS:HB2	2.43	0.52
45:NA:241:SER:OG	45:NA:250:VAL:O	2.18	0.52
45:NC:419:SER:O	45:NC:423:GLU:HG2	2.10	0.52
45:NG:244:PHE:HB2	45:NG:356:ASN:HD21	1.75	0.52
45:NG:397:LEU:HD21	46:NH:344:TRP:HA	1.92	0.52
46:NJ:67:ASP:OD1	46:NJ:68:LEU:N	2.41	0.52
46:NL:294:PHE:CE1	46:NL:333:VAL:HG11	2.44	0.52
45:NM:227:LEU:O	45:NM:231:ILE:HD12	2.09	0.52
45:OC:2:ARG:HG3	45:OC:133:GLN:NE2	2.24	0.52
45:OK:249:ASN:ND2	46:ON:11:GLN:OE1	2.40	0.52
45:PE:227:LEU:O	45:PE:231:ILE:HD12	2.09	0.52
46:PF:44:LEU:HA	46:PF:47:ILE:HG23	1.91	0.52
46:PN:31:ASP:OD1	46:PN:35:THR:N	2.36	0.52
45:QC:88:HIS:HA	45:RC:280:LYS:HE2	1.91	0.52
45:QC:89:PRO:HD3	45:RC:280:LYS:HE2	1.91	0.52
45:QC:426:ALA:HB1	45:QC:430:LYS:HZ1	1.74	0.52
45:QE:259:LEU:HD22	45:QE:268:MET:HE3	1.92	0.52
45:QE:265:ILE:HD11	45:QE:435:VAL:HG21	1.90	0.52
46:QJ:86:ARG:HH12	46:RJ:282:ARG:HG2	1.74	0.52
45:QK:147:SER:HB2	45:QK:190:SER:HB3	1.90	0.52
45:QK:254:GLU:CD	45:QK:258:ASN:HD21	2.13	0.52
46:RB:210:ILE:O	46:RB:214:THR:OG1	2.23	0.52
45:RE:211:ASP:HA	45:RE:214:ARG:HG2	1.90	0.52
45:RG:68:LEU:HD13	45:RG:93:ILE:HB	1.91	0.52
46:RH:36:TYR:CZ	46:RH:44:LEU:HD11	2.44	0.52
45:RK:248:LEU:HB2	45:RK:355:ILE:HG22	1.91	0.52
46:RL:22:GLU:HA	46:RL:81:PHE:HD2	1.74	0.52
45:SC:183:GLU:N	45:SC:184:PRO:HD2	2.24	0.52
45:SC:345:ASP:OD1	45:SC:346:TRP:N	2.42	0.52
45:SE:90:GLU:HG2	45:SE:121:ARG:NH2	2.25	0.52
45:SE:241:SER:OG	45:SE:250:VAL:O	2.21	0.52
46:SJ:46:ARG:NH2	45:SK:73:THR:HA	2.25	0.52
45:SK:208:ALA:O	45:SK:212:ILE:HG12	2.10	0.52
45:SM:76:ASP:OD1	45:SM:79:ARG:NH2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SM:102:ASN:ND2	45:SM:407:TRP:O	2.42	0.52
46:SN:167:PHE:CE2	46:SN:233:MET:HG2	2.44	0.52
46:TB:20:PHE:HD2	46:TB:21:TRP:CD1	2.28	0.52
46:TL:2:ARG:NH2	45:TM:70:LEU:O	2.43	0.52
46:UB:190:HIS:HE2	46:UB:415:MET:HG2	1.73	0.52
45:UC:362:VAL:HB	45:UC:370:LYS:HB3	1.91	0.52
45:UE:99:ALA:HA	45:UE:105:ARG:HD3	1.92	0.52
45:UK:99:ALA:HA	45:UK:105:ARG:HE	1.75	0.52
45:UK:244:PHE:HB2	45:UK:356:ASN:HD21	1.73	0.52
46:UL:86:ARG:NH1	46:VL:281:TYR:HB2	2.24	0.52
45:VK:79:ARG:NH2	45:VK:92:LEU:O	2.43	0.52
45:WC:129:CYS:SG	45:WC:132:LEU:N	2.83	0.52
46:WD:3:GLU:OE2	46:WD:127:CYS:HB2	2.10	0.52
45:WE:398:MET:HE3	46:WF:346:PRO:HD2	1.91	0.52
45:WG:228:ASN:HA	45:WG:231:ILE:HD12	1.92	0.52
45:WG:407:TRP:HZ2	46:WH:258:ILE:HD11	1.74	0.52
46:WJ:16:ILE:HD13	46:WJ:226:ASN:OD1	2.10	0.52
46:WL:344:TRP:HE3	46:WL:345:ILE:HG23	1.74	0.52
45:WM:407:TRP:NE1	46:WN:255:VAL:HG22	2.23	0.52
46:WN:238:CYS:SG	46:WN:318:ARG:HD2	2.49	0.52
45:CE:211:ASP:HB3	45:CE:215:ARG:CZ	2.39	0.52
45:DC:35:GLN:HA	45:DC:60:LYS:HA	1.92	0.52
3:0C:122:ARG:HH12	45:DI:225:THR:HB	1.73	0.52
6:0F:80:TYR:HE2	45:EE:81:GLY:HA3	1.73	0.52
15:0X:83:MET:CE	34:7R:47:GLU:HB2	2.39	0.52
23:1O:265:PHE:C	45:UA:282:TYR:CD2	2.82	0.52
23:1O:268:ASN:HD22	45:UA:283:HIS:CD2	2.27	0.52
26:1W:245:LEU:HD22	34:7R:17:PHE:CD2	2.45	0.52
21:2L:546:GLN:HG2	45:BM:279:GLU:OE1	2.08	0.52
37:5F:126:LEU:HD13	45:OE:285:GLN:HE22	1.75	0.52
37:5G:61:LYS:H	46:OJ:276:ARG:HH22	1.56	0.52
34:5R:256:LEU:HD22	34:5R:356:THR:HG23	1.90	0.52
10:6Q:74:PRO:HD2	10:6Q:169:ASP:OD1	2.10	0.52
34:7R:389:ASN:H	46:EB:276:ARG:NH2	2.07	0.52
46:AD:398:TYR:HD2	46:AD:408:PHE:HZ	1.58	0.52
45:AE:324:VAL:HG12	45:AE:326:LYS:H	1.75	0.52
46:CB:2:ARG:NH2	46:CB:240:LEU:O	2.43	0.52
46:CB:15:GLN:OE1	49:CB:501:GDP:N1	2.42	0.52
46:CN:77:ARG:HD2	46:CN:90:PHE:CE2	2.45	0.52
46:DB:138:SER:HA	46:DB:169:VAL:HB	1.91	0.52
46:DF:181:GLU:HB3	46:DF:182:PRO:HD3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DH:134:GLN:HA	46:DH:165:GLU:O	2.10	0.52
45:DM:328:VAL:HG11	45:DM:353:VAL:HG21	1.92	0.52
46:ED:324:LYS:NZ	45:EE:214:ARG:HB2	2.23	0.52
45:EI:276:ILE:HG13	45:EI:280:LYS:HE2	1.91	0.52
46:FF:377:MET:HE3	46:FF:380:ARG:HH12	1.74	0.52
45:FG:69:ASP:OD1	45:FG:70:LEU:N	2.43	0.52
46:FH:97:ALA:HB3	46:FH:143:THR:HB	1.91	0.52
45:FI:392:ASP:OD1	45:FI:422:ARG:NE	2.42	0.52
46:FL:226:ASN:HD21	49:FL:502:GDP:HN1	1.56	0.52
45:GA:245:ASP:N	45:GA:245:ASP:OD1	2.43	0.52
45:GC:220:GLU:H	45:GC:220:GLU:CD	2.13	0.52
46:GD:117:LEU:HA	46:GD:120:VAL:HG12	1.91	0.52
45:GG:140:SER:OG	47:GG:501:GTP:O2B	2.27	0.52
45:GI:115:VAL:O	45:GI:119:LEU:HD23	2.10	0.52
45:HG:72:PRO:HD2	46:HH:2:ARG:NH2	2.25	0.52
45:HI:210:TYR:CD1	46:HJ:324:LYS:HE3	2.44	0.52
45:HK:288:VAL:HA	45:HK:291:ILE:HG22	1.91	0.52
45:IC:268:MET:HB2	45:IC:379:SER:O	2.09	0.52
46:IH:190:HIS:CD2	46:IH:411:ALA:HA	2.44	0.52
45:II:3:GLU:OE2	45:II:131:GLY:N	2.41	0.52
46:JB:267:MET:HB2	46:JB:299:MET:CE	2.40	0.52
45:JK:326:LYS:HG3	45:JK:327:ASP:N	2.24	0.52
46:JL:203:ASP:OD2	46:JL:206:ALA:N	2.41	0.52
45:KC:256:GLN:HB2	46:KF:397:TRP:CZ2	2.44	0.52
45:KE:195:LEU:HD13	45:KE:428:LEU:HD12	1.92	0.52
46:KF:9:GLY:HA2	46:KF:66:MET:O	2.09	0.52
45:KI:358:GLN:NE2	45:KI:359:PRO:O	2.42	0.52
46:LN:122:LYS:HE2	46:MN:291:GLN:NE2	2.25	0.52
45:MC:265:ILE:HG22	45:MC:380:ASN:HD21	1.75	0.52
45:MC:419:SER:O	45:MC:423:GLU:HG2	2.09	0.52
46:MD:36:TYR:CZ	46:MD:44:LEU:HD11	2.45	0.52
46:MD:62:ARG:NH2	46:MD:127:CYS:HB3	2.24	0.52
45:ME:227:LEU:O	45:ME:231:ILE:HD12	2.09	0.52
45:MG:116:ASP:OD1	45:MG:116:ASP:N	2.43	0.52
45:MG:174:SER:HB2	45:MG:177:VAL:O	2.09	0.52
46:MH:309:ARG:NH2	46:MH:426:GLN:O	2.33	0.52
46:MJ:20:PHE:HA	46:MJ:230:SER:OG	2.10	0.52
46:ML:7:ILE:HG22	46:ML:64:ILE:HB	1.92	0.52
45:MM:118:CYS:O	45:MM:122:ILE:HG12	2.10	0.52
45:NE:3:GLU:OE2	45:NE:129:CYS:HB3	2.10	0.52
45:NG:8:HIS:CD2	45:NG:17:GLY:HA3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NJ:200:MET:HE3	46:NJ:266:PHE:HB2	1.92	0.52
45:OC:141:VAL:HG22	45:OC:187:SER:HA	1.92	0.52
46:OF:5:VAL:HG12	46:OF:62:ARG:HD3	1.92	0.52
45:OG:205:ASP:OD1	45:OG:303:ALA:HA	2.10	0.52
45:PA:140:SER:OG	47:PA:501:GTP:O2B	2.28	0.52
45:PC:352:LYS:HZ3	46:PF:179:VAL:H	1.57	0.52
45:PG:55:GLU:CD	45:PG:57:GLY:H	2.13	0.52
46:PJ:88:ASP:OD2	46:PJ:89:ASN:N	2.43	0.52
46:PN:221:THR:HG23	46:PN:224:ASP:H	1.75	0.52
46:QB:2:ARG:NH1	45:QC:96:LYS:HB3	2.24	0.52
45:QC:169:PHE:HD1	45:QC:204:LEU:HD11	1.75	0.52
46:QD:350:LYS:HD2	46:QD:351:SER:H	1.75	0.52
45:QK:76:ASP:HA	45:QK:79:ARG:HG2	1.91	0.52
45:RC:183:GLU:N	45:RC:184:PRO:HD2	2.25	0.52
46:RJ:258:ILE:O	45:RK:407:TRP:NE1	2.40	0.52
46:RN:3:GLU:HG3	46:RN:62:ARG:NH1	2.24	0.52
46:SB:24:ILE:O	46:SB:27:GLU:HG2	2.09	0.52
46:SB:31:ASP:OD2	46:SB:37:HIS:ND1	2.43	0.52
46:SF:260:PHE:HB2	46:SF:263:LEU:HD13	1.90	0.52
45:SG:137:VAL:HG23	45:SG:168:GLY:HA2	1.90	0.52
46:SH:12:CYS:O	46:SH:16:ILE:HG12	2.10	0.52
45:TG:336:LYS:NZ	45:TG:349:THR:HA	2.24	0.52
46:TN:282:ARG:NH2	46:TN:292:GLN:OE1	2.43	0.52
45:UG:346:TRP:CD1	46:UH:391:ARG:HG3	2.44	0.52
46:UL:317:PHE:CD1	46:UL:365:VAL:HG22	2.45	0.52
45:UM:324:VAL:HG12	45:UM:326:LYS:HG2	1.90	0.52
46:VF:99:ASN:HA	46:VF:142:GLY:H	1.75	0.52
46:VF:253:LEU:O	46:VF:257:LEU:HB2	2.09	0.52
45:VI:175:PRO:HB2	45:VI:176:GLN:OE1	2.10	0.52
45:VK:141:VAL:HG11	45:VK:172:TYR:CD1	2.44	0.52
45:VK:222:PRO:HD2	46:VL:324:LYS:CE	2.40	0.52
46:VN:311:LEU:H	46:VN:371:SER:HA	1.74	0.52
45:WK:209:ILE:HD11	45:WK:302:MET:HG2	1.92	0.52
4:1D:224:ARG:HH11	34:4R:493:GLY:HA3	1.72	0.52
19:1J:139:LYS:HG3	45:IE:372:MET:SD	2.49	0.52
4:2D:84:SER:HA	46:EJ:320:ARG:HH21	1.74	0.52
14:2V:24:ARG:HE	45:ME:430:LYS:NZ	2.06	0.52
37:5F:116:TYR:HB3	45:OE:279:GLU:OE2	2.10	0.52
34:5R:146:LYS:HG3	46:AL:78:ALA:HB3	1.92	0.52
34:6R:80:ARG:HH22	45:MM:38:SER:H	1.57	0.52
34:6R:489:ASP:OD1	34:6R:490:PHE:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AG:91:GLN:HB3	45:AG:121:ARG:HH11	1.74	0.52
46:AH:67:ASP:OD1	46:AH:68:LEU:N	2.43	0.52
46:AH:376:GLU:O	46:AH:380:ARG:HG3	2.10	0.52
45:AK:201:ALA:HB3	45:AK:267:PHE:HD1	1.75	0.52
46:AN:238:CYS:SG	46:AN:239:CYS:N	2.83	0.52
45:BC:1:MET:O	45:BC:3:GLU:HG2	2.09	0.52
45:BC:180:ALA:HB3	45:BC:183:GLU:HG3	1.91	0.52
45:BI:101:ASN:HA	45:BI:144:GLY:H	1.75	0.52
45:BK:258:ASN:HB3	45:BK:352:LYS:HD2	1.92	0.52
46:CB:63:ALA:O	46:CB:89:ASN:ND2	2.43	0.52
45:CC:11:GLN:N	45:CC:11:GLN:OE1	2.42	0.52
45:CG:419:SER:O	45:CG:423:GLU:HG2	2.10	0.52
46:CH:109:GLY:HA2	46:CH:147:MET:HE2	1.91	0.52
46:CN:289:LEU:HD13	46:CN:365:VAL:HG23	1.92	0.52
46:DB:139:LEU:HD22	46:DB:170:VAL:HG12	1.91	0.52
45:DE:260:VAL:HG23	46:DF:397:TRP:HZ2	1.73	0.52
45:DG:18:ASN:N	45:DG:18:ASN:HD22	2.08	0.52
45:EA:212:ILE:HD11	45:EA:300:ASN:HA	1.91	0.52
46:EB:345:ILE:HG22	46:EB:348:ASN:HB3	1.91	0.52
46:ED:61:PRO:HG2	46:ED:85:PHE:HD2	1.75	0.52
46:EH:258:ILE:HG13	45:EI:407:TRP:HE1	1.75	0.52
46:EJ:101:TRP:HB2	46:EJ:184:ASN:HB3	1.92	0.52
45:FK:47:ASP:HB2	45:FK:49:PHE:CE1	2.44	0.52
46:FL:31:ASP:OD1	46:FL:35:THR:N	2.37	0.52
46:FN:372:THR:HA	46:FN:422:TYR:HE2	1.73	0.52
45:GA:152:LEU:O	45:GA:156:ARG:HG2	2.10	0.52
45:GG:296:PHE:HE2	45:GG:335:ILE:HG21	1.75	0.52
46:GH:139:LEU:HD13	46:GH:168:SER:HB3	1.92	0.52
46:GN:370:ASN:OD1	46:GN:422:TYR:OH	2.28	0.52
46:HH:316:LEU:HD23	46:HH:352:SER:HB2	1.92	0.52
45:HI:264:ARG:HG3	45:HI:264:ARG:HH11	1.75	0.52
45:HI:319:TYR:HB3	45:HI:323:VAL:HG11	1.92	0.52
46:IF:282:ARG:NH2	46:IF:292:GLN:OE1	2.43	0.52
46:IJ:105:HIS:CE1	46:IJ:150:LEU:HD12	2.44	0.52
46:IJ:173:PRO:HD3	46:IJ:380:ARG:NH1	2.25	0.52
45:JA:269:LEU:HG	45:JA:301:MET:HE2	1.92	0.52
45:JI:53:PHE:HE2	45:JI:63:PRO:HG3	1.75	0.52
45:KE:9:VAL:HG22	45:KE:146:GLY:HA2	1.90	0.52
46:KF:173:PRO:HG2	46:KF:380:ARG:HD2	1.91	0.52
45:KM:422:ARG:HH12	45:KM:425:LEU:HD13	1.75	0.52
46:LB:158:GLU:HG3	46:LB:159:TYR:CD1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LE:9:VAL:HG12	45:LE:68:LEU:HB2	1.91	0.52
45:LM:390:ARG:O	45:LM:394:LYS:HG2	2.10	0.52
45:NI:174:SER:HB2	45:NI:177:VAL:O	2.09	0.52
45:NK:174:SER:HB3	45:NK:207:GLU:HG3	1.92	0.52
46:NN:306:ARG:HA	46:NN:340:TYR:CE2	2.45	0.52
46:OB:286:VAL:HG12	46:OB:329:GLN:NE2	2.25	0.52
45:OI:336:LYS:O	45:OI:339:ARG:NH2	2.43	0.52
46:OJ:207:LEU:HD13	46:OJ:225:LEU:HB3	1.92	0.52
45:OM:221:ARG:HH22	46:ON:324:LYS:CG	2.22	0.52
45:PA:79:ARG:NH2	45:PA:89:PRO:O	2.42	0.52
46:PF:262:ARG:NH2	46:PF:421:GLU:OE2	2.43	0.52
45:PG:196:GLU:HG2	45:PG:197:HIS:ND1	2.24	0.52
46:PJ:67:ASP:O	46:PJ:92:PHE:HA	2.10	0.52
46:PJ:134:GLN:HE21	46:PJ:167:PHE:HE2	1.56	0.52
46:QF:7:ILE:HG23	46:QF:64:ILE:HD11	1.92	0.52
45:QG:10:GLY:O	45:QG:14:ILE:HG12	2.10	0.52
46:QH:67:ASP:OD1	46:QH:68:LEU:N	2.43	0.52
46:QJ:201:VAL:HG23	46:QJ:301:CYS:SG	2.50	0.52
46:QJ:252:LYS:HA	45:QK:100:ALA:HB1	1.91	0.52
45:RC:176:GLN:OE1	45:RC:304:LYS:NZ	2.43	0.52
46:RF:324:LYS:HB3	45:RG:210:TYR:CE2	2.45	0.52
45:RG:359:PRO:HB2	45:RG:370:LYS:NZ	2.24	0.52
45:RI:259:LEU:HD21	45:RI:316:SER:HB2	1.92	0.52
45:RI:271:SER:OG	45:RI:301:MET:SD	2.68	0.52
46:SF:318:ARG:HH11	46:SF:358:PRO:HG3	1.74	0.52
45:SG:214:ARG:HH12	45:SG:220:GLU:HA	1.74	0.52
45:SG:270:SER:O	45:SG:302:MET:HG3	2.09	0.52
45:SI:141:VAL:HG12	45:SI:171:ILE:O	2.09	0.52
45:SK:11:GLN:HE21	47:SK:501:GTP:PA	2.33	0.52
46:SN:221:THR:HG23	46:SN:224:ASP:H	1.75	0.52
46:TD:342:VAL:HG13	46:TD:345:ILE:HG22	1.92	0.52
46:TF:21:TRP:HA	46:TF:24:ILE:HG22	1.91	0.52
45:TG:387:VAL:HA	45:TG:390:ARG:HG2	1.92	0.52
46:TL:3:GLU:OE1	46:TL:49:VAL:HA	2.09	0.52
45:UC:201:ALA:HB3	45:UC:267:PHE:HD2	1.73	0.52
45:UC:244:PHE:HB2	45:UC:356:ASN:HD21	1.75	0.52
46:UD:107:THR:OG1	46:UD:108:GLU:OE1	2.26	0.52
45:UE:326:LYS:HE2	46:UF:208:TYR:CD1	2.43	0.52
46:UF:324:LYS:H	45:UG:221:ARG:NH2	2.04	0.52
45:UG:208:ALA:HA	45:UG:304:LYS:HE3	1.90	0.52
46:UH:113:ILE:HD13	46:UH:150:LEU:HD22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UH:372:THR:HA	46:UH:422:TYR:CE2	2.45	0.52
46:UJ:207:LEU:HD13	46:UJ:225:LEU:HB3	1.92	0.52
46:UJ:314:SER:HA	46:UJ:350:LYS:HB2	1.90	0.52
45:UM:259:LEU:HD23	45:UM:268:MET:HG2	1.92	0.52
46:VB:324:LYS:HB2	46:VB:324:LYS:NZ	2.25	0.52
45:VG:265:ILE:HG22	45:VG:380:ASN:HD21	1.74	0.52
46:VL:406:MET:O	46:VL:410:GLU:HG2	2.09	0.52
45:WA:96:LYS:HA	45:WA:96:LYS:HE2	1.91	0.52
46:WD:173:PRO:HD2	46:WD:380:ARG:NH1	2.25	0.52
45:WE:331:SER:O	45:WE:335:ILE:HG12	2.10	0.52
46:WF:375:GLN:HG3	46:WF:419:VAL:HG13	1.92	0.52
45:WG:223:THR:HG23	45:WG:225:THR:H	1.75	0.52
6:OF:188:ILE:HD12	45:EE:89:PRO:HB3	1.91	0.52
19:1J:348:LEU:HD11	46:IN:228:LEU:HD23	1.92	0.52
16:2B:62:THR:HA	45:LK:84:ARG:NH2	2.17	0.52
31:2I:83:ARG:NH2	45:GE:298:PRO:O	2.34	0.52
25:2R:80:CYS:SG	45:MG:32:PRO:HD2	2.49	0.52
11:2S:184:PRO:HG3	45:WG:127:ASP:HB3	1.91	0.52
14:3V:71:PHE:HB2	46:MB:306:ARG:HH21	1.75	0.52
34:7R:450:ASP:OD1	34:7R:452:THR:OG1	2.28	0.52
45:AA:283:HIS:HD1	45:MA:89:PRO:HD3	1.74	0.52
46:BD:259:PRO:HG2	46:BD:311:LEU:HD21	1.92	0.52
46:BL:118:ASP:O	46:BL:121:ARG:HG2	2.10	0.52
45:BM:68:LEU:HD13	45:BM:93:ILE:HB	1.91	0.52
46:CD:6:HIS:CD2	46:CD:21:TRP:HE1	2.28	0.52
46:CD:405:GLU:O	46:CD:409:THR:HG23	2.10	0.52
45:CI:9:VAL:HG21	45:CI:149:LEU:HB2	1.92	0.52
45:CI:311:LYS:O	45:CI:381:SER:OG	2.20	0.52
45:CK:213:CYS:SG	45:CK:219:ILE:HB	2.49	0.52
46:DD:208:TYR:HB3	45:DC:326:LYS:HZ3	1.75	0.52
45:DG:206:ASN:HB3	45:DG:210:TYR:CZ	2.45	0.52
45:DI:345:ASP:OD2	46:DJ:390:ARG:NH2	2.43	0.52
46:DN:6:HIS:O	46:DN:63:ALA:HA	2.10	0.52
46:EB:267:MET:HG3	46:EB:301:CYS:HB2	1.92	0.52
45:EC:69:ASP:O	45:EC:94:SER:HA	2.10	0.52
45:EC:166:LYS:N	45:EC:199:ASP:OD2	2.35	0.52
45:EC:345:ASP:OD1	45:EC:346:TRP:N	2.42	0.52
45:EC:399:TYR:HE2	45:EC:418:PHE:HD2	1.57	0.52
46:EF:215:LEU:HD11	46:EF:273:LEU:HD12	1.92	0.52
46:EJ:258:ILE:HG22	46:EJ:266:PHE:HZ	1.74	0.52
46:EL:238:CYS:SG	46:EL:318:ARG:HD3	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FF:313:ALA:HB1	46:FF:367:PHE:HE1	1.75	0.52
46:GD:77:ARG:NH1	46:GD:82:GLY:O	2.43	0.52
45:GE:223:THR:HG23	45:GE:225:THR:H	1.75	0.52
46:GJ:117:LEU:HA	46:GJ:120:VAL:HG12	1.91	0.52
45:GM:340:THR:HG23	45:GM:341:ILE:HG13	1.91	0.52
45:HG:31:GLN:OE1	45:HG:31:GLN:N	2.42	0.52
45:HG:184:PRO:O	45:HG:188:ILE:HG12	2.10	0.52
45:HI:55:GLU:HG3	45:HI:57:GLY:H	1.75	0.52
46:HJ:257:LEU:HD11	46:HJ:314:SER:HB2	1.91	0.52
45:HM:404:PHE:HE2	46:HN:259:PRO:HA	1.74	0.52
45:IG:324:VAL:HG12	45:IG:326:LYS:HG2	1.92	0.52
45:IK:55:GLU:HG3	45:IK:57:GLY:H	1.75	0.52
45:IM:173:PRO:O	45:IM:390:ARG:NH2	2.43	0.52
45:JC:255:PHE:O	45:JC:259:LEU:HB2	2.10	0.52
45:JE:96:LYS:HA	45:JE:96:LYS:HE2	1.91	0.52
46:JF:404:ASP:OD2	46:JF:405:GLU:N	2.42	0.52
45:JG:205:ASP:OD2	45:JG:303:ALA:HA	2.09	0.52
45:KG:25:CYS:HB2	45:KG:30:ILE:HB	1.91	0.52
46:KH:156:ARG:NH2	46:KH:160:PRO:O	2.43	0.52
45:LC:115:VAL:O	45:LC:119:LEU:HG	2.10	0.52
46:LF:380:ARG:O	46:LF:383:GLU:HG3	2.10	0.52
45:ME:317:MET:HG2	45:ME:377:MET:HG2	1.92	0.52
45:MG:208:ALA:O	45:MG:212:ILE:HG12	2.10	0.52
46:MH:32:PRO:HA	46:MH:84:LEU:HD11	1.92	0.52
46:MH:138:SER:HA	46:MH:169:VAL:HB	1.91	0.52
45:MM:384:ILE:O	45:MM:387:VAL:HG22	2.10	0.52
46:NB:116:VAL:HA	46:NB:119:VAL:HG12	1.92	0.52
46:ND:150:LEU:HD23	46:ND:154:LYS:HZ1	1.75	0.52
46:ND:155:VAL:HA	46:ND:158:GLU:OE1	2.10	0.52
45:NE:33:ASP:HA	45:NE:85:GLN:CB	2.40	0.52
45:NE:352:LYS:NZ	46:NH:179:VAL:HG22	2.25	0.52
45:OA:147:SER:HB2	45:OA:190:SER:HB2	1.91	0.52
46:OB:24:ILE:HG23	46:OB:28:HIS:CE1	2.45	0.52
45:OE:257:THR:HG22	46:OH:397:TRP:HZ3	1.74	0.52
46:OF:325:GLU:HA	46:OF:328:GLU:HG3	1.91	0.52
46:OJ:182:PRO:HG2	46:OJ:388:MET:HE1	1.90	0.52
45:PA:207:GLU:OE2	45:PA:304:LYS:HB2	2.10	0.52
45:PA:252:ILE:HD12	45:PA:255:PHE:CE2	2.45	0.52
45:PC:33:ASP:O	45:PC:60:LYS:NZ	2.43	0.52
46:PD:149:THR:HA	46:PD:152:ILE:HD12	1.91	0.52
46:PJ:32:PRO:O	46:PJ:83:GLN:NE2	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PM:76:ASP:OD1	46:PN:46:ARG:NH2	2.42	0.52
46:QF:105:HIS:CE1	46:QF:150:LEU:HD12	2.45	0.52
46:QF:175:VAL:HG22	46:QF:205:GLU:HB3	1.92	0.52
45:QG:108:TYR:O	45:QG:112:LYS:NZ	2.38	0.52
46:RF:7:ILE:HB	46:RF:135:ILE:HG22	1.92	0.52
46:RH:86:ARG:HH22	46:SH:282:ARG:HG3	1.75	0.52
46:RJ:11:GLN:HE21	49:RJ:501:GDP:PA	2.33	0.52
46:RJ:27:GLU:OE2	46:RJ:241:ARG:NH2	2.43	0.52
46:RJ:252:LYS:HA	45:RK:100:ALA:HB1	1.92	0.52
46:RL:238:CYS:SG	46:RL:239:CYS:N	2.83	0.52
45:RM:75:ILE:HG23	45:RM:92:LEU:HG	1.90	0.52
46:SB:12:CYS:O	46:SB:16:ILE:HG12	2.09	0.52
46:SF:2:ARG:NH2	45:SG:71:GLU:OE2	2.32	0.52
46:SF:375:GLN:HA	46:SF:378:PHE:HD2	1.74	0.52
45:SG:392:ASP:OD1	45:SG:422:ARG:NH1	2.42	0.52
45:SK:11:GLN:NE2	47:SK:501:GTP:O1A	2.36	0.52
46:SL:186:THR:HG23	46:SL:415:MET:CE	2.39	0.52
46:TB:258:ILE:HD12	46:TB:264:HIS:HB3	1.92	0.52
46:TB:317:PHE:CD1	46:TB:365:VAL:HG22	2.44	0.52
45:TC:319:TYR:HD2	45:TC:323:VAL:HG11	1.75	0.52
45:TE:118:CYS:O	45:TE:122:ILE:HG12	2.10	0.52
46:TJ:46:ARG:HH22	45:TK:73:THR:HA	1.75	0.52
45:UA:49:PHE:HD1	45:UA:53:PHE:HB2	1.75	0.52
45:UE:151:SER:O	45:UE:154:LEU:N	2.42	0.52
46:UH:381:VAL:HG12	46:UH:385:PHE:CE2	2.44	0.52
45:UI:111:GLY:O	45:UI:115:VAL:HG13	2.10	0.52
45:UI:320:ARG:HD3	45:UI:360:PRO:HG3	1.92	0.52
46:UJ:238:CYS:SG	46:UJ:241:ARG:NH2	2.82	0.52
46:UL:86:ARG:HH21	46:UL:87:PRO:HD2	1.74	0.52
46:UN:260:PHE:HB2	46:UN:263:LEU:HD13	1.92	0.52
46:VB:332:ASN:HD22	46:VB:336:LYS:NZ	2.07	0.52
45:VE:206:ASN:ND2	45:VE:210:TYR:OH	2.43	0.52
45:VK:261:PRO:CD	45:VK:262:TYR:H	2.21	0.52
46:WF:31:ASP:OD2	46:WF:33:THR:OG1	2.27	0.52
46:WJ:325:GLU:O	46:WJ:329:GLN:OE1	2.28	0.52
45:WM:180:ALA:HA	46:WN:350:LYS:NZ	2.25	0.52
1:1A:63:PRO:HG3	46:MF:44:LEU:HD21	1.92	0.52
27:2C:21:LEU:HD21	45:LI:365:GLY:N	2.25	0.52
21:2L:667:ARG:HG3	45:CM:365:GLY:HA2	1.90	0.52
9:2N:8:ARG:HH21	46:IB:53:GLU:HB3	1.74	0.52
34:4R:423:ILE:HD12	34:4R:447:PHE:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5B:67:ALA:O	36:5B:70:MET:HE3	2.10	0.52
37:5E:104:MET:HG3	37:5E:105:LYS:H	1.74	0.52
34:6R:420:ASP:OD1	34:6R:421:GLN:N	2.43	0.52
45:AC:51:THR:HG21	45:AC:243:ARG:HB3	1.92	0.52
45:AE:259:LEU:HD11	45:AE:316:SER:CB	2.40	0.52
46:AN:190:HIS:CE1	46:AN:414:ASN:HD22	2.28	0.52
45:BE:207:GLU:O	45:BE:210:TYR:HB2	2.10	0.52
45:BE:267:PHE:HD2	45:BE:388:PHE:HZ	1.57	0.52
45:BK:215:ARG:NH2	45:BK:300:ASN:OD1	2.43	0.52
45:BM:79:ARG:O	45:BM:84:ARG:HG2	2.10	0.52
46:CH:310:TYR:HE2	46:CH:367:PHE:HZ	1.56	0.52
45:CM:296:PHE:HE1	45:CM:377:MET:HG3	1.74	0.52
45:DA:141:VAL:HG11	45:DA:172:TYR:CD1	2.45	0.52
45:DA:206:ASN:OD1	47:DA:501:GTP:N2	2.43	0.52
46:DB:255:VAL:HG21	45:DC:100:ALA:O	2.10	0.52
46:DD:392:LYS:HG3	46:DD:395:LEU:HD12	1.92	0.52
45:DG:155:GLU:HA	45:DG:197:HIS:CE1	2.44	0.52
45:DI:301:MET:HG3	45:DI:303:ALA:H	1.75	0.52
46:DL:12:CYS:O	46:DL:16:ILE:HG12	2.10	0.52
45:DM:147:SER:HB2	45:DM:190:SER:OG	2.10	0.52
45:DM:184:PRO:O	45:DM:188:ILE:HG12	2.10	0.52
45:DM:336:LYS:HA	45:DM:336:LYS:HE2	1.92	0.52
46:DN:226:ASN:HD21	49:DN:501:GDP:HN1	1.57	0.52
45:EC:9:VAL:HG21	45:EC:149:LEU:HB2	1.91	0.52
46:ED:289:LEU:HD13	46:ED:365:VAL:HG23	1.92	0.52
45:EE:55:GLU:HG3	45:EE:57:GLY:H	1.75	0.52
46:EF:246:LEU:HD11	45:EG:224:TYR:HE2	1.73	0.52
45:EK:178:SER:OG	45:EK:180:ALA:O	2.27	0.52
46:FD:7:ILE:HG13	46:FD:64:ILE:HB	1.91	0.52
46:FD:21:TRP:CD1	46:FD:21:TRP:N	2.76	0.52
45:GA:68:LEU:HD13	45:GA:93:ILE:HB	1.91	0.52
45:GC:212:ILE:HD11	45:GC:300:ASN:HA	1.92	0.52
46:GD:316:LEU:HG	46:GD:352:SER:HB2	1.91	0.52
45:GE:28:HIS:HE1	45:GE:243:ARG:HH11	1.57	0.52
46:GH:293:MET:CE	46:GH:365:VAL:HG11	2.40	0.52
46:GJ:91:VAL:HG21	46:GJ:116:VAL:HB	1.92	0.52
45:GK:118:CYS:O	45:GK:122:ILE:HG12	2.09	0.52
46:GL:52:ASN:OD1	46:GL:53:GLU:N	2.43	0.52
46:GL:222:TYR:O	46:GL:226:ASN:ND2	2.33	0.52
45:GM:244:PHE:HB2	45:GM:356:ASN:HD21	1.73	0.52
45:HC:419:SER:O	45:HC:423:GLU:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HD:328:GLU:O	46:HD:332:ASN:ND2	2.43	0.52
46:HF:293:MET:HE2	46:HF:367:PHE:CD1	2.45	0.52
45:HG:69:ASP:OD1	45:HG:71:GLU:N	2.33	0.52
45:HK:2:ARG:HG3	45:HK:133:GLN:HE22	1.75	0.52
46:HL:174:LYS:HB2	46:HL:205:GLU:OE2	2.10	0.52
46:IB:262:ARG:NH1	46:IB:421:GLU:OE1	2.42	0.52
45:IC:68:LEU:HD21	45:IC:118:CYS:SG	2.50	0.52
45:IE:200:VAL:HG13	45:IE:268:MET:CE	2.40	0.52
46:JB:32:PRO:HG3	46:JB:81:PHE:CE2	2.45	0.52
46:JD:86:ARG:NH1	46:KD:281:TYR:O	2.43	0.52
46:JD:401:GLU:HG2	46:JD:401:GLU:O	2.08	0.52
45:JI:11:GLN:NE2	46:JJ:245:GLN:O	2.43	0.52
45:JI:191:THR:HA	45:JI:194:LEU:HG	1.91	0.52
46:JJ:68:LEU:HA	46:JJ:93:GLY:H	1.75	0.52
45:JM:188:ILE:HG22	45:JM:421:ALA:HB1	1.90	0.52
46:JN:296:ALA:HB1	46:JN:305:PRO:HD2	1.92	0.52
45:KA:244:PHE:HB2	45:KA:356:ASN:HD21	1.74	0.52
45:KE:377:MET:HE2	45:KE:379:SER:HB3	1.93	0.52
46:KF:267:MET:HG2	46:KF:299:MET:SD	2.50	0.52
45:KI:64:ARG:NH1	45:KI:129:CYS:SG	2.83	0.52
46:KJ:2:ARG:HB2	46:KJ:131:GLN:HG3	1.92	0.52
45:KM:265:ILE:HG22	45:KM:432:TYR:HE1	1.75	0.52
46:KN:149:THR:HA	46:KN:152:ILE:HD12	1.92	0.52
46:LH:31:ASP:OD2	46:LH:37:HIS:ND1	2.43	0.52
45:MI:183:GLU:N	45:MI:184:PRO:HD2	2.25	0.52
46:MN:390:ARG:O	46:MN:392:LYS:NZ	2.43	0.52
46:ND:44:LEU:HA	46:ND:47:ILE:HB	1.92	0.52
46:ND:105:HIS:CE1	46:ND:150:LEU:HD12	2.46	0.52
46:NF:22:GLU:HG2	46:NF:81:PHE:CD1	2.45	0.52
45:NI:181:VAL:HG12	46:NJ:256:ASN:HD22	1.75	0.52
45:NK:208:ALA:O	45:NK:212:ILE:HG12	2.09	0.52
46:NL:19:LYS:HE2	46:NL:19:LYS:HA	1.92	0.52
45:NM:11:GLN:NE2	46:NN:245:GLN:O	2.42	0.52
46:NN:97:ALA:HB3	46:NN:143:THR:HB	1.92	0.52
45:OA:226:ASN:HA	45:OA:229:ARG:HD2	1.92	0.52
46:OB:207:LEU:HD22	46:OB:228:LEU:HD11	1.92	0.52
46:OD:11:GLN:HG3	49:OD:501:GDP:O3B	2.10	0.52
46:OD:66:MET:HA	46:OD:91:VAL:O	2.10	0.52
46:OD:97:ALA:HB2	46:OD:143:THR:HB	1.92	0.52
46:OJ:289:LEU:HD13	46:OJ:365:VAL:HG13	1.91	0.52
45:OK:169:PHE:CE2	45:OK:235:ILE:HD12	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OK:268:MET:HG3	45:OK:380:ASN:HB2	1.91	0.52
46:PD:245:GLN:OE1	46:PD:246:LEU:HG	2.10	0.52
46:PD:294:PHE:HE2	46:PD:333:VAL:HG11	1.75	0.52
46:PF:68:LEU:HB3	46:PF:96:GLY:HA2	1.92	0.52
45:PG:242:LEU:HD11	45:PG:252:ILE:HG12	1.92	0.52
45:PI:206:ASN:OD1	47:PI:501:GTP:N2	2.43	0.52
45:PK:104:ALA:HB2	45:PK:413:MET:HG2	1.92	0.52
46:PL:386:THR:O	46:PL:390:ARG:HG2	2.09	0.52
46:QL:133:PHE:O	46:QL:164:MET:HA	2.10	0.52
45:QM:324:VAL:HG12	45:QM:326:LYS:HG3	1.90	0.52
46:RF:117:LEU:HD21	46:RF:121:ARG:HH22	1.74	0.52
46:RL:311:LEU:O	46:RL:345:ILE:HD11	2.10	0.52
46:SB:260:PHE:HB2	46:SB:263:LEU:HD13	1.92	0.52
45:SC:229:ARG:NH2	45:SC:367:ASP:H	2.07	0.52
46:SF:324:LYS:HB2	45:SG:210:TYR:CE1	2.45	0.52
45:SG:277:SER:O	45:SG:281:ALA:N	2.43	0.52
45:SM:244:PHE:HB2	45:SM:356:ASN:HD21	1.74	0.52
46:TB:144:GLY:HA2	46:TB:147:MET:SD	2.50	0.52
45:TC:272:TYR:HD1	45:TC:376:CYS:HB3	1.75	0.52
46:TD:119:VAL:O	46:TD:122:LYS:HG3	2.10	0.52
46:TD:337:ASN:HB3	46:TD:340:TYR:HD2	1.74	0.52
45:TE:188:ILE:HG21	45:TE:422:ARG:HH22	1.74	0.52
46:TH:86:ARG:HB3	46:TH:89:ASN:OD1	2.09	0.52
45:TK:254:GLU:O	45:TK:255:PHE:HD2	1.93	0.52
46:UH:282:ARG:HE	46:UH:283:ALA:N	2.04	0.52
45:UK:332:ILE:HD11	45:UK:351:PHE:CG	2.45	0.52
45:VA:80:THR:HA	45:VA:84:ARG:HH21	1.75	0.52
45:VM:118:CYS:O	45:VM:122:ILE:HG12	2.10	0.52
45:VM:135:PHE:HB2	45:VM:166:LYS:HG2	1.91	0.52
46:VN:164:MET:SD	46:VN:197:ASP:N	2.65	0.52
46:WD:41:ASP:OD1	46:WD:42:LEU:HD12	2.10	0.52
46:WF:16:ILE:HD13	46:WF:226:ASN:OD1	2.10	0.52
46:WH:293:MET:HG2	46:WH:365:VAL:HG11	1.91	0.52
46:WJ:133:PHE:O	46:WJ:164:MET:HA	2.10	0.52
45:WK:154:LEU:HD13	45:WK:197:HIS:HB2	1.92	0.52
46:WL:381:VAL:HA	46:WL:384:GLN:HE21	1.75	0.52
45:WM:3:GLU:HB2	45:WM:64:ARG:NH2	2.25	0.52
4:OD:52:ASN:HD21	46:EB:320:ARG:NH1	2.07	0.51
24:1P:341:LEU:HD13	45:TC:364:PRO:HD3	1.91	0.51
31:2I:60:PHE:HD2	46:FH:92:PHE:HE2	1.55	0.51
30:3H:196:SER:HA	46:AH:42:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:6G:95:VAL:HG13	45:UK:96:LYS:NZ	2.24	0.51
44:8R:288:TYR:CE1	45:PC:278:ALA:HB3	2.45	0.51
46:AB:1:MET:SD	46:AB:2:ARG:N	2.82	0.51
45:AE:208:ALA:O	45:AE:212:ILE:HG12	2.09	0.51
46:AH:283:ALA:HA	46:MH:55:THR:HG23	1.92	0.51
46:AN:222:TYR:HD2	49:AN:501:GDP:C6	2.27	0.51
46:BB:20:PHE:CE1	46:BB:24:ILE:HD11	2.45	0.51
45:BG:100:ALA:HA	46:BH:252:LYS:HG2	1.92	0.51
45:BK:174:SER:HB2	45:BK:177:VAL:O	2.10	0.51
45:DA:140:SER:OG	47:DA:501:GTP:O2B	2.28	0.51
46:DJ:390:ARG:HD2	46:DJ:391:ARG:HG2	1.92	0.51
45:DK:20:CYS:HA	45:DK:232:ALA:HB1	1.90	0.51
46:EF:324:LYS:HA	46:EF:327:ASP:OD2	2.10	0.51
46:EN:294:PHE:HD2	46:EN:333:VAL:HG11	1.75	0.51
45:FA:157:LEU:HG	45:FA:161:TYR:CD2	2.45	0.51
46:FD:345:ILE:HG23	46:FD:345:ILE:O	2.10	0.51
45:FG:17:GLY:HA2	45:FG:20:CYS:SG	2.50	0.51
46:FH:221:THR:HG23	46:FH:224:ASP:H	1.75	0.51
46:FJ:5:VAL:HG12	46:FJ:62:ARG:HD3	1.92	0.51
46:FJ:273:LEU:N	46:FJ:292:GLN:HE22	2.07	0.51
46:FJ:318:ARG:HH11	46:FJ:358:PRO:HG3	1.75	0.51
45:FK:183:GLU:N	45:FK:184:PRO:HD2	2.25	0.51
45:FM:268:MET:HB2	45:FM:379:SER:O	2.09	0.51
46:FN:55:THR:OG1	46:GN:280:GLN:O	2.25	0.51
45:GK:1:MET:SD	45:GK:1:MET:N	2.82	0.51
45:GK:56:THR:HG23	45:GK:58:ALA:H	1.75	0.51
46:HD:3:GLU:OE2	46:HD:62:ARG:HD2	2.11	0.51
45:HE:118:CYS:O	45:HE:122:ILE:HG12	2.11	0.51
46:HJ:8:GLN:HE21	46:HJ:65:LEU:HG	1.75	0.51
45:HK:18:ASN:O	45:HK:22:GLU:HG3	2.10	0.51
46:HL:49:VAL:HG21	46:HL:241:ARG:HG2	1.92	0.51
45:HM:408:TYR:HD2	45:HM:418:PHE:HZ	1.58	0.51
46:HN:3:GLU:HG3	46:HN:62:ARG:NH1	2.26	0.51
46:HN:118:ASP:HB3	46:HN:122:LYS:HZ3	1.75	0.51
45:IE:399:TYR:O	45:IE:402:ARG:NH1	2.43	0.51
46:IN:286:VAL:HG21	46:IN:321:MET:HE2	1.92	0.51
46:JB:237:THR:HG23	46:JB:241:ARG:HE	1.74	0.51
45:JC:121:ARG:HE	45:JC:121:ARG:HA	1.75	0.51
45:JG:11:GLN:HG2	45:JG:74:VAL:HG11	1.92	0.51
46:JH:377:MET:O	46:JH:380:ARG:HG2	2.10	0.51
46:JN:50:TYR:CE2	46:JN:241:ARG:HD3	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JN:210:ILE:HD11	46:JN:298:ASN:HA	1.92	0.51
45:KI:11:GLN:HG2	45:KI:74:VAL:HG11	1.92	0.51
45:KM:75:ILE:O	45:KM:79:ARG:HG3	2.10	0.51
45:KM:90:GLU:N	45:KM:90:GLU:OE2	2.43	0.51
45:KM:399:TYR:O	45:KM:402:ARG:NH1	2.43	0.51
46:KN:19:LYS:HA	46:KN:22:GLU:OE1	2.10	0.51
46:KN:294:PHE:HD1	46:KN:333:VAL:HG21	1.75	0.51
46:KN:316:LEU:HB2	46:KN:366:THR:HB	1.91	0.51
46:LB:309:ARG:H	46:LB:372:THR:HG22	1.75	0.51
45:MA:371:VAL:HG12	45:MA:373:ARG:H	1.75	0.51
46:MB:107:THR:OG1	46:MB:108:GLU:OE1	2.27	0.51
45:MG:326:LYS:HE3	46:MJ:212:PHE:HB2	1.92	0.51
46:MH:5:VAL:HG12	46:MH:62:ARG:HD3	1.92	0.51
45:MI:76:ASP:OD1	45:MI:79:ARG:NH2	2.40	0.51
45:NI:31:GLN:HG2	45:NI:37:PRO:HD3	1.92	0.51
46:NN:88:ASP:N	46:NN:88:ASP:OD2	2.42	0.51
45:OA:105:ARG:HD2	46:OB:251:ARG:NH2	2.24	0.51
46:OH:175:VAL:HG22	46:OH:205:GLU:OE2	2.10	0.51
46:OH:398:TYR:O	46:OH:403:MET:HB2	2.10	0.51
45:OI:80:THR:O	45:OI:84:ARG:NH2	2.42	0.51
45:PA:70:LEU:HD11	45:PA:99:ALA:N	2.25	0.51
45:PG:23:LEU:O	45:PG:27:GLU:HG2	2.10	0.51
45:PI:278:ALA:HA	45:PI:369:ALA:HB2	1.91	0.51
46:PJ:86:ARG:HD3	46:PJ:87:PRO:HD2	1.91	0.51
46:PJ:186:THR:HA	46:PJ:189:VAL:HG12	1.91	0.51
45:PK:60:LYS:NZ	45:PK:85:GLN:O	2.27	0.51
45:QC:183:GLU:N	45:QC:184:PRO:HD2	2.25	0.51
46:QF:328:GLU:OE1	46:QF:332:ASN:ND2	2.40	0.51
45:QG:334:THR:O	45:QG:338:LYS:HE3	2.09	0.51
46:QH:318:ARG:HB2	46:QH:364:ALA:HB3	1.91	0.51
46:QJ:249:ASP:OD1	46:QJ:252:LYS:N	2.36	0.51
46:QJ:258:ILE:HD11	45:QK:407:TRP:HZ2	1.75	0.51
46:QL:318:ARG:HB3	46:QL:357:PRO:HA	1.92	0.51
46:QN:178:THR:HB	46:QN:181:GLU:HG3	1.91	0.51
46:RD:3:GLU:HG3	46:RD:62:ARG:NH1	2.25	0.51
46:RD:19:LYS:O	46:RD:22:GLU:HG3	2.11	0.51
46:RF:183:TYR:HA	46:RF:385:PHE:CE1	2.43	0.51
45:RK:20:CYS:SG	45:RK:21:TRP:HD1	2.33	0.51
46:RL:12:CYS:O	46:RL:16:ILE:HG12	2.10	0.51
46:RL:86:ARG:HB3	46:RL:88:ASP:OD1	2.10	0.51
46:SB:256:ASN:OD1	45:SC:181:VAL:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SE:31:GLN:HB3	45:SE:33:ASP:OD1	2.10	0.51
45:SG:36:MET:HG2	45:SG:61:HIS:HE1	1.75	0.51
46:SL:166:THR:OG1	46:SL:199:CYS:SG	2.61	0.51
46:SL:383:GLU:HA	46:SL:386:THR:HG22	1.92	0.51
45:TA:76:ASP:OD1	45:TA:79:ARG:NH2	2.43	0.51
45:TA:242:LEU:HD11	45:TA:252:ILE:HG13	1.91	0.51
46:TB:238:CYS:HA	46:TB:241:ARG:NE	2.26	0.51
46:TB:423:GLN:NE2	46:TB:427:ASP:OD2	2.43	0.51
46:TF:16:ILE:HD12	46:TF:229:VAL:HG21	1.91	0.51
46:TJ:304:ASP:OD2	46:TJ:306:ARG:NH1	2.44	0.51
46:TL:42:LEU:HB3	46:TL:242:PHE:CE1	2.42	0.51
46:TL:97:ALA:HA	46:TL:103:LYS:HZ1	1.75	0.51
46:TL:114:ASP:O	46:TL:117:LEU:HG	2.10	0.51
46:TN:100:ASN:HD22	46:TN:103:LYS:HB2	1.74	0.51
46:UD:222:TYR:O	46:UD:226:ASN:ND2	2.26	0.51
45:UG:98:ASP:O	45:UG:105:ARG:NH2	2.43	0.51
45:UI:176:GLN:NE2	45:UI:207:GLU:OE2	2.43	0.51
45:VG:175:PRO:HA	45:VG:390:ARG:NH1	2.25	0.51
45:VK:208:ALA:HB2	45:VK:304:LYS:HG3	1.92	0.51
45:VK:268:MET:HB2	45:VK:379:SER:O	2.10	0.51
46:VN:114:ASP:O	46:VN:117:LEU:HG	2.09	0.51
45:WE:179:THR:HG21	46:WF:246:LEU:HD13	1.91	0.51
46:WH:318:ARG:HB3	46:WH:357:PRO:HA	1.93	0.51
45:WI:90:GLU:OE1	45:WI:121:ARG:NH2	2.43	0.51
46:WJ:48:ASN:O	46:WJ:62:ARG:NH1	2.42	0.51
45:WM:207:GLU:N	45:WM:207:GLU:OE1	2.43	0.51
46:WN:173:PRO:HD2	46:WN:380:ARG:NH1	2.24	0.51
46:WN:299:MET:CE	46:WN:305:PRO:HD3	2.40	0.51
45:DC:119:LEU:HA	45:DC:122:ILE:HG22	1.92	0.51
45:DC:210:TYR:HE1	45:DC:227:LEU:HD11	1.75	0.51
4:0D:79:GLN:NE2	46:EB:39:ASP:OD2	2.42	0.51
11:0S:253:ARG:HH12	46:AB:417:ASP:HB3	1.74	0.51
21:1L:901:LYS:H	46:CB:320:ARG:NH2	2.06	0.51
23:2O:235:MET:HG2	46:VJ:280:GLN:HG2	1.92	0.51
16:3B:59:PHE:HD2	45:LG:32:PRO:HB2	1.74	0.51
11:3S:278:ARG:HD2	46:WN:115:SER:HB2	1.91	0.51
35:4S:124:CYS:SG	35:4S:164:LYS:HD2	2.50	0.51
15:4X:3:ARG:NH2	45:LI:247:ALA:O	2.43	0.51
37:5E:63:HIS:NE2	46:OB:280:GLN:O	2.43	0.51
37:5H:46:LEU:HG	37:5H:47:GLU:H	1.75	0.51
34:7R:215:LEU:HA	34:7R:218:ILE:HG13	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AA:241:SER:OG	45:AA:250:VAL:O	2.24	0.51
45:AA:245:ASP:N	45:AA:245:ASP:OD2	2.42	0.51
45:AE:9:VAL:HG13	45:AE:139:ASN:HB3	1.93	0.51
45:AK:20:CYS:O	45:AK:24:PHE:HD2	1.93	0.51
45:AK:98:ASP:O	45:AK:105:ARG:NH1	2.44	0.51
45:AK:343:PHE:HZ	45:AK:351:PHE:HE1	1.58	0.51
46:AN:67:ASP:OD1	46:AN:69:GLU:N	2.35	0.51
46:BH:282:ARG:HG2	46:BH:283:ALA:O	2.10	0.51
46:BJ:66:MET:HA	46:BJ:91:VAL:O	2.10	0.51
46:BJ:238:CYS:SG	46:BJ:239:CYS:N	2.84	0.51
46:BL:295:ASP:OD1	46:BL:296:ALA:N	2.43	0.51
46:BN:87:PRO:HA	46:BN:90:PHE:CD2	2.43	0.51
46:CB:8:GLN:HE21	46:CB:65:LEU:HG	1.75	0.51
45:CG:326:LYS:NZ	46:CH:219:THR:HA	2.25	0.51
46:CH:8:GLN:HE21	46:CH:65:LEU:HD21	1.75	0.51
45:CI:141:VAL:HG11	45:CI:172:TYR:CD1	2.44	0.51
45:CK:141:VAL:HG22	45:CK:187:SER:HA	1.93	0.51
45:CK:212:ILE:HD13	45:CK:215:ARG:HH21	1.75	0.51
45:CK:251:ASP:HB3	45:CK:253:THR:HG22	1.92	0.51
46:CN:139:LEU:HD22	46:CN:170:VAL:HG12	1.91	0.51
46:DB:64:ILE:HG22	46:DB:66:MET:SD	2.50	0.51
46:DB:178:THR:HB	46:DB:181:GLU:HG3	1.92	0.51
45:DG:140:SER:OG	47:DG:501:GTP:O2B	2.28	0.51
45:DK:231:ILE:O	45:DK:235:ILE:HG12	2.10	0.51
45:EG:93:ILE:HG22	45:EG:114:ILE:HD11	1.91	0.51
45:EI:68:LEU:HD13	45:EI:93:ILE:HB	1.92	0.51
46:EL:296:ALA:HB2	46:EL:306:ARG:NH1	2.25	0.51
45:FC:226:ASN:O	45:FC:230:LEU:HG	2.10	0.51
46:GJ:132:GLY:HA3	46:GJ:163:ILE:HG13	1.92	0.51
45:GK:66:VAL:HG11	45:GK:122:ILE:HD11	1.91	0.51
46:HD:306:ARG:HB2	46:HD:306:ARG:NH1	2.25	0.51
45:HE:17:GLY:HA2	45:HE:20:CYS:SG	2.51	0.51
45:HE:258:ASN:CB	45:HE:352:LYS:HD2	2.39	0.51
45:HE:352:LYS:NZ	46:HH:178:THR:HA	2.26	0.51
45:HK:148:GLY:O	45:HK:151:SER:OG	2.27	0.51
45:HM:244:PHE:HB2	45:HM:356:ASN:HD21	1.75	0.51
46:IB:198:GLU:HG2	46:IB:266:PHE:CE2	2.45	0.51
45:IG:10:GLY:O	45:IG:14:ILE:HG12	2.09	0.51
46:IH:396:HIS:CD2	46:IH:397:TRP:CD1	2.98	0.51
45:II:69:ASP:OD1	45:II:70:LEU:N	2.43	0.51
46:IJ:36:TYR:CG	46:IJ:44:LEU:HD21	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JB:376:GLU:OE1	46:JB:380:ARG:NH1	2.34	0.51
46:JH:232:ALA:O	46:JH:236:VAL:HG23	2.10	0.51
46:JJ:186:THR:HA	46:JJ:189:VAL:HG12	1.91	0.51
46:JL:20:PHE:HA	46:JL:230:SER:OG	2.10	0.51
46:JL:211:CYS:HB3	46:JL:217:LEU:HD21	1.92	0.51
46:JN:3:GLU:HG3	46:JN:62:ARG:NH1	2.24	0.51
45:KA:175:PRO:HB3	45:KA:390:ARG:NH1	2.25	0.51
45:KG:286:LEU:HD13	45:KG:371:VAL:HG13	1.91	0.51
45:KK:141:VAL:HG21	45:KK:172:TYR:CE1	2.45	0.51
46:KN:73:MET:HA	46:KN:76:VAL:HG12	1.90	0.51
45:LA:257:THR:HG21	46:LD:98:GLY:O	2.10	0.51
46:LH:207:LEU:HB3	46:LH:225:LEU:HD22	1.90	0.51
45:LI:68:LEU:HD23	45:LI:93:ILE:HB	1.92	0.51
45:LI:113:GLU:OE1	45:LI:113:GLU:N	2.42	0.51
45:LK:326:LYS:NZ	46:LN:208:TYR:O	2.43	0.51
45:LM:155:GLU:HG3	45:LM:197:HIS:NE2	2.25	0.51
45:MA:317:MET:HG2	45:MA:377:MET:HG2	1.92	0.51
45:MA:362:VAL:HB	45:MA:370:LYS:HB3	1.92	0.51
45:MG:96:LYS:HB3	46:MH:1:MET:CE	2.41	0.51
45:MK:195:LEU:HD11	45:MK:428:LEU:HD22	1.92	0.51
45:NA:325:PRO:HB2	46:ND:208:TYR:OH	2.09	0.51
46:NJ:111:GLU:OE1	46:NJ:111:GLU:N	2.43	0.51
45:NK:118:CYS:O	45:NK:122:ILE:HG12	2.10	0.51
45:NM:387:VAL:HA	45:NM:390:ARG:HG2	1.93	0.51
46:NN:8:GLN:HE21	46:NN:14:ASN:HA	1.74	0.51
46:OD:107:THR:OG1	46:OD:108:GLU:OE1	2.22	0.51
46:OL:45:GLU:OE1	46:OL:46:ARG:HG3	2.10	0.51
46:ON:329:GLN:HA	46:ON:332:ASN:HD21	1.75	0.51
45:PA:210:TYR:CE1	45:PA:227:LEU:HD11	2.45	0.51
45:PE:2:ARG:HH21	45:PE:242:LEU:HD23	1.75	0.51
45:PE:4:VAL:HG22	45:PE:133:GLN:HB3	1.93	0.51
46:PF:54:ALA:HA	46:QD:283:ALA:HB2	1.93	0.51
45:PG:208:ALA:O	45:PG:212:ILE:HG12	2.09	0.51
45:PK:328:VAL:O	45:PK:332:ILE:HG12	2.09	0.51
46:QB:418:LEU:HD12	46:QB:421:GLU:OE1	2.10	0.51
45:QC:206:ASN:OD1	47:QC:501:GTP:N2	2.43	0.51
45:QG:68:LEU:HD21	45:QG:118:CYS:SG	2.50	0.51
45:QG:109:THR:HG22	45:QG:110:ILE:HG23	1.93	0.51
46:QH:7:ILE:HG23	46:QH:64:ILE:HD11	1.92	0.51
45:QM:244:PHE:HB2	45:QM:356:ASN:HD21	1.76	0.51
45:QM:293:ASN:O	45:QM:297:GLU:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RB:334:GLN:HA	46:RB:341:PHE:CE2	2.45	0.51
45:RC:208:ALA:O	45:RC:212:ILE:HG12	2.09	0.51
45:RE:69:ASP:OD1	45:RE:70:LEU:N	2.43	0.51
45:RE:71:GLU:HB3	45:RE:98:ASP:HB2	1.91	0.51
45:RK:141:VAL:HG11	45:RK:172:TYR:HA	1.92	0.51
46:SB:19:LYS:O	46:SB:22:GLU:HG3	2.11	0.51
46:SB:40:SER:H	46:SB:43:GLN:NE2	2.08	0.51
46:SB:287:PRO:HA	46:SB:290:THR:HG22	1.92	0.51
45:SC:69:ASP:OD1	45:SC:70:LEU:N	2.41	0.51
46:SD:135:ILE:HG13	46:SD:152:ILE:HD11	1.92	0.51
45:SE:282:TYR:OH	45:SE:370:LYS:O	2.20	0.51
46:SJ:67:ASP:OD2	46:SJ:72:THR:OG1	2.28	0.51
46:SN:273:LEU:N	46:SN:292:GLN:HE22	2.06	0.51
46:SN:309:ARG:NH2	46:SN:426:GLN:O	2.37	0.51
45:TA:53:PHE:HB3	45:TA:61:HIS:HB3	1.90	0.51
45:TA:340:THR:HG23	45:TA:341:ILE:HG13	1.91	0.51
45:TC:9:VAL:HG22	45:TC:146:GLY:HA2	1.91	0.51
46:TH:165:GLU:HG2	46:TH:198:GLU:OE1	2.10	0.51
46:TJ:6:HIS:O	46:TJ:63:ALA:HA	2.10	0.51
45:TK:118:CYS:O	45:TK:122:ILE:HG12	2.10	0.51
45:TM:141:VAL:HG11	45:TM:172:TYR:HA	1.93	0.51
46:UB:221:THR:HG23	46:UB:224:ASP:H	1.75	0.51
46:UB:282:ARG:NH2	46:UB:292:GLN:OE1	2.25	0.51
46:UD:12:CYS:O	46:UD:16:ILE:HG12	2.11	0.51
46:UD:139:LEU:HD13	46:UD:168:SER:HB3	1.92	0.51
46:UF:238:CYS:SG	46:UF:318:ARG:HD2	2.50	0.51
45:UG:188:ILE:HD11	45:UG:391:LEU:HB3	1.93	0.51
45:UG:188:ILE:HG22	45:UG:421:ALA:HB1	1.92	0.51
45:UK:184:PRO:O	45:UK:188:ILE:HG12	2.11	0.51
45:UK:285:GLN:HE22	45:UK:287:SER:CB	2.23	0.51
46:UN:58:ARG:HH22	46:UN:84:LEU:HD13	1.74	0.51
46:VB:344:TRP:CE3	46:VB:345:ILE:HG23	2.45	0.51
45:VI:121:ARG:HE	45:VI:124:LYS:HE3	1.75	0.51
46:WF:19:LYS:NZ	46:WF:227:HIS:HA	2.26	0.51
45:WI:254:GLU:HG2	46:WL:98:GLY:HA2	1.92	0.51
46:WJ:350:LYS:NZ	46:WJ:352:SER:OG	2.42	0.51
46:WL:344:TRP:CE3	46:WL:345:ILE:HG23	2.46	0.51
19:1J:263:PHE:HB2	45:II:371:VAL:HG12	1.91	0.51
4:2D:209:LYS:HA	34:5R:433:GLN:NE2	2.22	0.51
24:2P:460:GLU:OE2	46:TJ:362:LYS:HE2	2.10	0.51
12:2T:132:PRO:HD3	45:MG:123:ARG:HH12	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3A:39:TYR:CE2	45:MM:78:VAL:HA	2.45	0.51
31:3I:257:THR:HG23	45:FI:96:LYS:NZ	2.25	0.51
34:4R:497:GLN:HB3	34:4R:502:ARG:HG2	1.92	0.51
10:5Q:92:GLN:HG2	10:5Q:152:LEU:HB2	1.91	0.51
45:AE:119:LEU:HD21	45:AE:156:ARG:HB3	1.92	0.51
45:AK:55:GLU:CD	45:AK:57:GLY:H	2.13	0.51
46:AL:4:ILE:HG13	46:AL:132:GLY:O	2.10	0.51
46:BD:323:THR:HG22	46:BD:353:ILE:HD13	1.92	0.51
45:BE:210:TYR:CE1	46:BF:324:LYS:HG2	2.45	0.51
46:BJ:113:ILE:HG21	46:BJ:150:LEU:HD22	1.91	0.51
46:CB:39:ASP:OD1	46:CB:43:GLN:NE2	2.43	0.51
46:CF:345:ILE:HA	45:CG:398:MET:HE3	1.91	0.51
45:CG:136:LEU:HD13	45:CG:167:LEU:HB2	1.92	0.51
46:CL:288:GLU:HA	46:CL:291:GLN:NE2	2.26	0.51
46:DD:12:CYS:SG	46:DD:13:GLY:N	2.83	0.51
46:DD:391:ARG:HG3	45:DC:346:TRP:CD1	2.46	0.51
45:DK:202:VAL:HA	45:DK:268:MET:O	2.10	0.51
46:DL:375:GLN:NE2	46:DL:423:GLN:HB3	2.24	0.51
46:EF:150:LEU:HG	46:EF:154:LYS:HZ3	1.76	0.51
46:EF:247:ASN:OD1	45:EG:11:GLN:NE2	2.43	0.51
45:FE:51:THR:HG22	45:FE:52:PHE:CD1	2.44	0.51
46:FF:21:TRP:HA	46:FF:24:ILE:HG22	1.92	0.51
45:FG:394:LYS:NZ	46:FH:346:PRO:HG2	2.25	0.51
46:FL:342:VAL:HG13	46:FL:345:ILE:HG22	1.93	0.51
45:FM:340:THR:HG23	45:FM:341:ILE:HG13	1.91	0.51
45:GG:205:ASP:OD2	45:GG:303:ALA:HA	2.09	0.51
46:GL:289:LEU:HD13	46:GL:365:VAL:HG13	1.92	0.51
45:HA:71:GLU:OE1	45:HA:73:THR:OG1	2.16	0.51
46:HH:267:MET:HE1	46:HH:303:ALA:HB3	1.91	0.51
45:HK:221:ARG:NH1	46:HL:325:GLU:H	2.07	0.51
45:HM:31:GLN:OE1	45:HM:35:GLN:NE2	2.42	0.51
46:IB:285:THR:HB	46:IB:287:PRO:HD2	1.92	0.51
45:IC:76:ASP:OD2	46:ID:46:ARG:NH2	2.36	0.51
45:IE:147:SER:HB2	45:IE:190:SER:HB3	1.91	0.51
46:IJ:97:ALA:HB3	46:IJ:143:THR:HB	1.92	0.51
46:IJ:105:HIS:CD2	46:IJ:150:LEU:HB2	2.46	0.51
46:IJ:313:ALA:HB1	46:IJ:367:PHE:HE1	1.75	0.51
45:IM:141:VAL:HG11	45:IM:172:TYR:CD1	2.44	0.51
45:IM:322:ASP:OD1	45:IM:373:ARG:NH1	2.42	0.51
46:IN:285:THR:HB	46:IN:287:PRO:HD2	1.91	0.51
45:JA:8:HIS:HB2	45:JA:67:PHE:HD1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JB:182:PRO:HD2	46:JB:388:MET:HE1	1.92	0.51
45:JC:294:SER:HA	45:JC:297:GLU:HG2	1.93	0.51
46:JD:139:LEU:HD12	46:JD:170:VAL:HG12	1.92	0.51
45:JK:288:VAL:HG11	45:JK:327:ASP:HB3	1.93	0.51
46:JL:190:HIS:CE1	46:JL:414:ASN:HD22	2.29	0.51
45:JM:8:HIS:HB2	45:JM:67:PHE:HD1	1.76	0.51
45:JM:119:LEU:O	45:JM:123:ARG:HG2	2.09	0.51
45:JM:292:THR:OG1	45:JM:319:TYR:OH	2.25	0.51
45:JM:406:HIS:CE1	46:JN:261:PRO:HD3	2.44	0.51
46:JN:183:TYR:OH	46:JN:388:MET:O	2.28	0.51
45:KA:79:ARG:O	45:KA:84:ARG:HG2	2.10	0.51
45:KC:121:ARG:CZ	45:KC:124:LYS:HE2	2.39	0.51
45:KK:352:LYS:HD2	46:KN:177:ASP:O	2.10	0.51
45:KK:414:GLU:CD	45:KK:416:GLY:H	2.13	0.51
45:LG:88:HIS:CE1	45:LG:90:GLU:HG2	2.46	0.51
45:LG:268:MET:HB2	45:LG:379:SER:O	2.09	0.51
46:LH:157:GLU:N	46:LH:157:GLU:OE2	2.43	0.51
46:LH:285:THR:HB	46:LH:287:PRO:HD2	1.92	0.51
45:LK:181:VAL:HG12	46:LL:347:ASN:O	2.11	0.51
45:MA:319:TYR:HB3	45:MA:323:VAL:HG11	1.92	0.51
46:MJ:31:ASP:OD2	46:MJ:35:THR:N	2.33	0.51
45:NA:76:ASP:HA	45:NA:79:ARG:HH11	1.75	0.51
45:NA:176:GLN:NE2	45:NA:207:GLU:OE2	2.43	0.51
45:NC:138:PHE:HD2	45:NC:169:PHE:HB2	1.76	0.51
45:NC:208:ALA:O	45:NC:212:ILE:HG12	2.10	0.51
45:NE:88:HIS:O	45:NE:91:GLN:HG2	2.10	0.51
46:NJ:105:HIS:CE1	46:NJ:150:LEU:HD12	2.45	0.51
46:NN:218:THR:HG22	46:NN:219:THR:HG23	1.92	0.51
46:OB:116:VAL:O	46:OB:120:VAL:HG23	2.10	0.51
45:OC:275:ILE:O	45:OC:275:ILE:HG13	2.10	0.51
46:OL:324:LYS:O	46:OL:327:ASP:N	2.43	0.51
46:ON:207:LEU:HB3	46:ON:225:LEU:HD22	1.91	0.51
45:PE:88:HIS:O	45:PE:91:GLN:HG2	2.10	0.51
45:PE:208:ALA:HA	45:PE:304:LYS:NZ	2.25	0.51
46:PJ:406:MET:HE2	46:PJ:410:GLU:HG2	1.92	0.51
46:PN:178:THR:HB	46:PN:181:GLU:OE2	2.11	0.51
45:QA:108:TYR:HA	45:QA:112:LYS:HE3	1.92	0.51
46:QB:73:MET:HA	46:QB:76:VAL:HG12	1.92	0.51
45:QE:288:VAL:HG21	45:QE:327:ASP:HB3	1.93	0.51
46:QF:286:VAL:HG12	46:QF:329:GLN:OE1	2.10	0.51
45:QK:252:ILE:HA	45:QK:255:PHE:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RB:271:ALA:HB3	46:RB:365:VAL:HB	1.92	0.51
46:RL:68:LEU:HB3	46:RL:96:GLY:HA2	1.93	0.51
46:SB:238:CYS:HA	46:SB:241:ARG:HH11	1.75	0.51
46:SB:372:THR:HG21	46:SB:426:GLN:HB2	1.92	0.51
45:SE:326:LYS:HE2	46:SF:212:PHE:CZ	2.46	0.51
46:SF:322:SER:HB3	45:SG:221:ARG:HB2	1.92	0.51
45:SG:176:GLN:OE1	45:SG:176:GLN:N	2.43	0.51
45:SI:115:VAL:HG21	45:SI:152:LEU:HD22	1.92	0.51
46:SL:316:LEU:HD13	46:SL:352:SER:HB3	1.92	0.51
46:TJ:119:VAL:O	46:TJ:122:LYS:HG3	2.11	0.51
46:TL:54:ALA:HB3	46:TL:58:ARG:HG2	1.93	0.51
45:UE:252:ILE:HA	45:UE:255:PHE:CE1	2.46	0.51
46:UF:256:ASN:HD22	45:UG:181:VAL:HG22	1.75	0.51
45:UI:287:SER:O	45:UI:291:ILE:HG12	2.10	0.51
46:UJ:2:ARG:HG3	46:UJ:2:ARG:HH11	1.75	0.51
45:UK:71:GLU:OE2	45:UK:73:THR:HG23	2.10	0.51
45:UM:215:ARG:NH2	45:UM:299:ALA:O	2.40	0.51
45:VE:209:ILE:HA	45:VE:212:ILE:HG22	1.92	0.51
45:VG:319:TYR:HB3	45:VG:323:VAL:HG11	1.93	0.51
45:VG:320:ARG:HH12	45:VG:360:PRO:CA	2.17	0.51
46:VJ:282:ARG:NH2	46:VJ:288:GLU:OE1	2.43	0.51
46:VL:77:ARG:HH11	46:VL:90:PHE:HZ	1.58	0.51
46:VL:313:ALA:HB1	46:VL:367:PHE:HE1	1.75	0.51
46:WD:6:HIS:O	46:WD:63:ALA:HA	2.10	0.51
46:WF:6:HIS:HD2	46:WF:21:TRP:HE1	1.57	0.51
46:WH:282:ARG:NE	46:WH:288:GLU:OE1	2.37	0.51
7:1G:168:PHE:CE2	46:KD:70:PRO:HB2	2.45	0.51
18:1I:195:PHE:CE1	15:4X:137:GLN:HB3	2.46	0.51
19:1J:342:LYS:HZ3	46:IN:276:ARG:NE	2.08	0.51
25:1R:347:LYS:HB3	45:CC:39:ASP:OD1	2.10	0.51
14:1V:141:ASN:ND2	45:LK:402:ARG:O	2.42	0.51
1:2A:55:PRO:HG2	45:MI:79:ARG:HD2	1.93	0.51
25:3R:143:ASN:OD1	46:BN:218:THR:OG1	2.18	0.51
27:4C:4:TYR:HB2	46:LN:359:LYS:HE2	1.92	0.51
35:4S:63:ASN:OD1	35:4S:65:PHE:N	2.41	0.51
35:4S:169:VAL:HA	35:4S:175:ILE:HD11	1.91	0.51
36:5A:127:GLU:OE2	36:5A:131:ARG:HD2	2.11	0.51
37:5F:165:PRO:HD2	37:5F:166:ARG:HH11	1.75	0.51
34:5R:431:ILE:HG21	34:5R:495:ILE:HD12	1.93	0.51
42:8L:60:UNK:O	46:SL:276:ARG:NH2	2.43	0.51
45:AG:184:PRO:O	45:AG:188:ILE:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:68:LEU:HD21	45:AI:118:CYS:SG	2.50	0.51
46:AL:226:ASN:HD21	49:AL:501:GDP:HN1	1.58	0.51
46:BB:164:MET:HB2	46:BB:197:ASP:H	1.74	0.51
45:BK:230:LEU:O	45:BK:234:VAL:HG23	2.11	0.51
46:CB:9:GLY:HA2	46:CB:66:MET:O	2.11	0.51
46:CB:190:HIS:CE1	46:CB:414:ASN:HD22	2.27	0.51
46:CB:209:ASP:O	46:CB:213:ARG:HD3	2.10	0.51
46:CH:208:TYR:CE1	46:CH:225:LEU:HD11	2.46	0.51
46:CJ:67:ASP:O	46:CJ:92:PHE:HA	2.08	0.51
45:CM:88:HIS:CG	45:DM:280:LYS:HE2	2.46	0.51
46:DJ:218:THR:HG23	46:DJ:219:THR:HG23	1.91	0.51
46:EH:420:SER:O	46:EH:424:GLN:HG2	2.09	0.51
45:EI:52:PHE:HZ	45:EI:239:THR:HG21	1.75	0.51
46:EN:208:TYR:CZ	46:EN:225:LEU:HD11	2.45	0.51
46:EN:330:MET:SD	46:EN:351:SER:OG	2.68	0.51
45:FM:272:TYR:CD1	45:FM:376:CYS:HB2	2.44	0.51
45:GE:74:VAL:HA	45:GE:77:GLU:HG2	1.92	0.51
45:GE:210:TYR:HE1	45:GE:227:LEU:HD11	1.75	0.51
46:GF:139:LEU:HD13	46:GF:168:SER:HB3	1.91	0.51
46:GJ:86:ARG:NH1	46:HJ:281:TYR:HE2	2.08	0.51
45:GM:167:LEU:HG	45:GM:200:VAL:HB	1.93	0.51
46:HJ:190:HIS:CD2	46:HJ:411:ALA:HA	2.45	0.51
45:IE:3:GLU:OE2	45:IE:131:GLY:N	2.42	0.51
45:IG:75:ILE:HG22	45:IG:79:ARG:HE	1.73	0.51
45:IK:326:LYS:HZ3	46:IN:220:PRO:HD2	1.75	0.51
46:IL:10:GLY:O	46:IL:14:ASN:ND2	2.43	0.51
46:IL:139:LEU:HD13	46:IL:168:SER:HB3	1.92	0.51
46:JN:256:ASN:HD21	46:JN:350:LYS:HE3	1.75	0.51
45:KC:26:LEU:HD13	45:KC:363:VAL:HG23	1.92	0.51
45:KE:64:ARG:NH1	45:KE:129:CYS:SG	2.83	0.51
45:KE:71:GLU:OE2	46:KF:2:ARG:NH2	2.44	0.51
45:KG:136:LEU:HD23	45:KG:167:LEU:HB2	1.93	0.51
45:KM:210:TYR:HB3	46:KN:324:LYS:HE3	1.92	0.51
46:LB:172:SER:OG	46:LB:205:GLU:OE1	2.27	0.51
46:MD:63:ALA:O	46:MD:89:ASN:ND2	2.40	0.51
46:MF:11:GLN:NE2	49:MF:501:GDP:O1A	2.29	0.51
46:MF:11:GLN:HB3	46:MF:72:THR:HG21	1.92	0.51
45:MG:282:TYR:HE1	45:MG:371:VAL:HG12	1.75	0.51
46:MJ:91:VAL:HG21	46:MJ:116:VAL:HB	1.93	0.51
45:MK:105:ARG:NH1	46:ML:251:ARG:HE	2.08	0.51
45:NI:259:LEU:HD21	45:NI:316:SER:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NI:322:ASP:OD1	45:NI:373:ARG:NH1	2.42	0.51
46:OH:253:LEU:O	46:OH:257:LEU:HB2	2.09	0.51
45:OI:345:ASP:OD2	45:OI:346:TRP:N	2.43	0.51
46:OJ:18:ALA:HB3	46:OJ:19:LYS:NZ	2.25	0.51
45:OM:208:ALA:O	45:OM:212:ILE:HG12	2.09	0.51
46:PF:293:MET:HG2	46:PF:365:VAL:HG11	1.93	0.51
45:PG:17:GLY:HA2	45:PG:20:CYS:SG	2.51	0.51
45:PI:90:GLU:H	45:QI:280:LYS:NZ	2.08	0.51
45:PM:88:HIS:O	45:PM:91:GLN:HG3	2.10	0.51
46:PN:58:ARG:NH1	46:PN:60:VAL:HG12	2.26	0.51
46:QB:24:ILE:O	46:QB:27:GLU:HG2	2.11	0.51
46:QD:12:CYS:O	46:QD:16:ILE:HG12	2.10	0.51
46:QD:299:MET:HE1	46:QD:305:PRO:HG3	1.93	0.51
46:QH:16:ILE:HD13	46:QH:226:ASN:OD1	2.10	0.51
46:QJ:221:THR:HG23	46:QJ:224:ASP:H	1.75	0.51
46:QL:209:ASP:OD1	46:QL:213:ARG:NE	2.42	0.51
46:QN:221:THR:HG23	46:QN:224:ASP:H	1.75	0.51
45:RE:205:ASP:OD2	45:RE:303:ALA:HA	2.11	0.51
46:RJ:327:ASP:OD1	46:RJ:328:GLU:N	2.43	0.51
46:SB:268:ILE:HG13	46:SB:300:MET:SD	2.50	0.51
45:SE:98:ASP:O	45:SE:105:ARG:NH1	2.44	0.51
46:SH:70:PRO:HB3	46:SH:73:MET:HE3	1.92	0.51
45:SI:90:GLU:HG3	45:SI:121:ARG:HH22	1.76	0.51
46:SJ:200:MET:CE	46:SJ:268:ILE:HG12	2.39	0.51
46:SJ:342:VAL:HG13	46:SJ:345:ILE:HG22	1.93	0.51
46:SL:309:ARG:NH2	46:SL:426:GLN:O	2.31	0.51
46:SL:374:ILE:HG12	46:SL:422:TYR:OH	2.10	0.51
46:SN:282:ARG:NH2	46:SN:292:GLN:OE1	2.39	0.51
46:TB:21:TRP:CZ3	46:TB:61:PRO:HB3	2.45	0.51
45:TE:68:LEU:HD21	45:TE:118:CYS:SG	2.50	0.51
45:TI:56:THR:HG23	45:TI:58:ALA:H	1.75	0.51
45:TI:82:THR:HG23	45:TI:83:TYR:CD2	2.46	0.51
45:TI:176:GLN:OE1	45:TI:176:GLN:N	2.44	0.51
45:TK:260:VAL:HB	46:TL:397:TRP:CZ2	2.39	0.51
46:TL:139:LEU:HD13	46:TL:168:SER:HB3	1.93	0.51
46:UF:226:ASN:HA	46:UF:229:VAL:HG12	1.93	0.51
46:UF:321:MET:HE3	45:UG:221:ARG:HH11	1.76	0.51
45:UI:352:LYS:HE3	46:UJ:179:VAL:HG13	1.92	0.51
46:UN:289:LEU:HD23	46:UN:292:GLN:HE21	1.76	0.51
45:VA:141:VAL:HG11	45:VA:172:TYR:HD1	1.75	0.51
46:VH:226:ASN:HA	46:VH:229:VAL:HG12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VJ:342:VAL:HG13	46:VJ:345:ILE:HG22	1.93	0.51
45:VK:64:ARG:NH2	45:VK:129:CYS:SG	2.70	0.51
45:VK:178:SER:HB3	46:VL:347:ASN:ND2	2.26	0.51
46:VN:201:VAL:O	46:VN:202:ILE:HD13	2.10	0.51
46:VN:385:PHE:HE2	46:VN:412:GLU:HB2	1.75	0.51
46:WB:147:MET:HA	46:WB:150:LEU:HG	1.92	0.51
45:WE:67:PHE:HB2	45:WE:92:LEU:HD13	1.92	0.51
46:WH:204:ASN:OD1	46:WH:205:GLU:N	2.44	0.51
45:WK:205:ASP:OD1	45:WK:303:ALA:HA	2.11	0.51
45:WM:120:ASP:HA	45:WM:123:ARG:HG2	1.92	0.51
45:CE:183:GLU:N	45:CE:184:PRO:HD2	2.26	0.51
6:0F:48:HIS:HB3	46:ED:320:ARG:NH1	2.25	0.51
19:1J:111:TYR:HB3	46:HF:53:GLU:OE1	2.11	0.51
36:5C:141:SER:HB3	36:5C:144:LYS:HD2	1.93	0.51
37:5F:46:LEU:HG	37:5F:47:GLU:H	1.75	0.51
37:5F:142:TYR:HE2	46:OH:276:ARG:HB2	1.75	0.51
37:5G:17:ASN:HB2	37:5G:21:LEU:HD12	1.92	0.51
34:5R:381:PHE:CD2	46:DJ:32:PRO:HD2	2.46	0.51
40:6G:276:PRO:HG3	45:UC:113:GLU:O	2.10	0.51
34:7R:97:CYS:HB3	34:7R:180:ILE:HD13	1.92	0.51
34:7R:242:ASN:ND2	45:CA:285:GLN:O	2.40	0.51
46:AF:213:ARG:NH2	46:AF:297:LYS:HE3	2.26	0.51
45:AG:68:LEU:HD13	45:AG:93:ILE:HB	1.93	0.51
45:AI:205:ASP:OD1	45:AI:303:ALA:HA	2.10	0.51
45:BA:205:ASP:OD1	45:BA:303:ALA:HA	2.09	0.51
45:BK:223:THR:HG23	45:BK:225:THR:H	1.76	0.51
46:BL:285:THR:HB	46:BL:287:PRO:HD2	1.93	0.51
45:BM:210:TYR:CE1	46:BN:324:LYS:HG2	2.44	0.51
46:BN:210:ILE:O	46:BN:214:THR:OG1	2.22	0.51
45:CA:328:VAL:HG11	45:CA:353:VAL:HG21	1.92	0.51
46:CH:372:THR:O	46:CH:375:GLN:NE2	2.44	0.51
45:CM:121:ARG:HH21	45:CM:124:LYS:HD3	1.75	0.51
45:CM:231:ILE:O	45:CM:235:ILE:HG12	2.11	0.51
46:DD:87:PRO:HA	46:DD:90:PHE:HD2	1.75	0.51
45:DE:184:PRO:O	45:DE:188:ILE:HG12	2.10	0.51
45:DG:183:GLU:N	45:DG:184:PRO:HD2	2.26	0.51
46:DJ:174:LYS:HD2	46:DJ:205:GLU:CD	2.31	0.51
45:DK:30:ILE:HD12	45:DK:36:MET:HA	1.92	0.51
46:EB:249:ASP:OD1	46:EB:252:LYS:N	2.38	0.51
45:EC:141:VAL:HG22	45:EC:187:SER:HA	1.93	0.51
45:EE:98:ASP:OD2	45:EE:99:ALA:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EJ:158:GLU:HG3	46:EJ:159:TYR:CD1	2.46	0.51
45:EK:174:SER:HB2	45:EK:177:VAL:O	2.10	0.51
45:FA:71:GLU:OE2	45:FA:73:THR:HG23	2.11	0.51
45:FC:322:ASP:OD1	45:FC:373:ARG:NH1	2.43	0.51
45:FG:390:ARG:HG3	45:FG:391:LEU:HD12	1.92	0.51
45:GA:259:LEU:HD21	45:GA:378:ILE:HG23	1.93	0.51
46:GD:97:ALA:HA	46:GD:103:LYS:HE3	1.91	0.51
46:GD:204:ASN:HB3	46:GD:208:TYR:HE2	1.74	0.51
45:GM:224:TYR:HE2	46:GN:246:LEU:HD11	1.74	0.51
46:GN:309:ARG:NH2	46:GN:426:GLN:O	2.39	0.51
45:HA:384:ILE:O	45:HA:387:VAL:HG22	2.11	0.51
46:HD:167:PHE:CE2	46:HD:200:MET:HG3	2.46	0.51
45:HE:102:ASN:OD1	45:HE:105:ARG:N	2.43	0.51
45:HE:137:VAL:HG23	45:HE:168:GLY:HA2	1.93	0.51
45:HE:164:LYS:O	45:HE:166:LYS:NZ	2.44	0.51
45:HG:167:LEU:HD23	45:HG:200:VAL:HB	1.93	0.51
45:HI:118:CYS:O	45:HI:122:ILE:HG12	2.10	0.51
45:HM:88:HIS:ND1	45:HM:89:PRO:HD2	2.25	0.51
46:HN:409:THR:O	46:HN:412:GLU:HG3	2.10	0.51
46:IH:333:VAL:HA	46:IH:336:LYS:HG2	1.92	0.51
45:IK:85:GLN:O	46:JL:281:TYR:OH	2.28	0.51
45:IM:426:ALA:HB1	45:IM:430:LYS:NZ	2.24	0.51
46:IN:178:THR:HB	46:IN:181:GLU:OE2	2.10	0.51
45:JA:184:PRO:O	45:JA:188:ILE:HD12	2.10	0.51
46:JB:246:LEU:HB2	46:JB:353:ILE:HG22	1.92	0.51
45:JE:36:MET:HG3	45:JE:37:PRO:CD	2.41	0.51
46:JF:105:HIS:CD2	46:JF:150:LEU:HB2	2.45	0.51
45:JI:98:ASP:OD1	45:JI:99:ALA:N	2.43	0.51
45:JK:118:CYS:O	45:JK:122:ILE:HG12	2.10	0.51
45:KA:72:PRO:HD2	46:KB:2:ARG:HH21	1.75	0.51
45:KK:255:PHE:O	45:KK:259:LEU:HB2	2.11	0.51
45:KM:407:TRP:HZ2	46:KN:258:ILE:HD11	1.76	0.51
46:LH:107:THR:OG1	46:LH:108:GLU:OE2	2.28	0.51
46:LL:73:MET:HG3	46:LL:77:ARG:NH2	2.26	0.51
45:MA:188:ILE:HD12	45:MA:425:LEU:HD11	1.92	0.51
46:MF:239:CYS:HB3	46:MF:354:CYS:HB2	1.93	0.51
45:NE:132:LEU:HB3	45:NE:164:LYS:NZ	2.25	0.51
46:NJ:154:LYS:O	46:NJ:157:GLU:HG3	2.10	0.51
46:NJ:345:ILE:HG23	46:NJ:348:ASN:HD22	1.75	0.51
46:NL:128:ASP:OD1	46:NL:129:CYS:N	2.44	0.51
45:OA:31:GLN:OE1	45:OA:37:PRO:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OA:102:ASN:HB3	46:OB:251:ARG:HH22	1.76	0.51
46:OF:65:LEU:HD22	46:OF:90:PHE:CE2	2.46	0.51
46:OJ:286:VAL:HG11	46:OJ:326:VAL:HG22	1.93	0.51
45:OK:427:ALA:O	45:OK:430:LYS:HG3	2.10	0.51
45:PC:90:GLU:O	45:PC:121:ARG:NH1	2.43	0.51
45:PI:242:LEU:HD11	45:PI:252:ILE:HG12	1.92	0.51
45:PI:346:TRP:CD1	46:PL:391:ARG:HG3	2.45	0.51
45:PK:384:ILE:O	45:PK:387:VAL:HG12	2.10	0.51
46:PL:189:VAL:HG22	46:PL:415:MET:HE3	1.92	0.51
46:PL:375:GLN:C	46:PL:379:LYS:HZ2	2.14	0.51
45:PM:5:ILE:HD11	45:PM:135:PHE:CE1	2.45	0.51
45:QC:377:MET:SD	45:QC:379:SER:HB2	2.50	0.51
46:QF:284:LEU:HD11	46:QF:362:LYS:HG3	1.93	0.51
46:QH:346:PRO:O	45:QI:394:LYS:NZ	2.40	0.51
45:QI:211:ASP:OD2	45:QI:215:ARG:NH1	2.43	0.51
46:RD:215:LEU:HD21	46:RD:273:LEU:HD12	1.91	0.51
45:RG:247:ALA:HB3	45:RG:355:ILE:HD11	1.93	0.51
46:SD:139:LEU:HD22	46:SD:170:VAL:HG22	1.93	0.51
46:SJ:298:ASN:ND2	46:SJ:298:ASN:O	2.43	0.51
46:SJ:372:THR:HA	46:SJ:422:TYR:HE2	1.76	0.51
45:SK:141:VAL:HG12	45:SK:171:ILE:O	2.11	0.51
46:SN:3:GLU:HG3	46:SN:62:ARG:NH1	2.25	0.51
46:SN:42:LEU:HA	46:SN:45:GLU:HG3	1.91	0.51
45:TA:135:PHE:HB2	45:TA:166:LYS:HG2	1.93	0.51
46:TB:317:PHE:CE2	46:TB:326:VAL:HG13	2.45	0.51
45:TC:265:ILE:O	45:TC:265:ILE:HG13	2.11	0.51
46:TF:345:ILE:O	46:TF:345:ILE:HG13	2.11	0.51
45:TK:11:GLN:NE2	47:TK:501:GTP:O3A	2.43	0.51
45:TM:328:VAL:HG11	45:TM:353:VAL:HG21	1.93	0.51
46:TN:237:THR:HG23	46:TN:241:ARG:HH21	1.75	0.51
45:UA:108:TYR:HA	45:UA:112:LYS:HE3	1.93	0.51
46:UB:190:HIS:NE2	46:UB:415:MET:HG2	2.25	0.51
46:UB:324:LYS:CE	45:UC:222:PRO:HD2	2.41	0.51
45:UC:70:LEU:HD13	45:UC:95:GLY:HA3	1.93	0.51
46:UD:273:LEU:H	46:UD:292:GLN:NE2	2.06	0.51
45:UI:188:ILE:HD12	45:UI:425:LEU:HD11	1.91	0.51
45:UI:254:GLU:HA	45:UI:257:THR:HG22	1.92	0.51
45:UI:287:SER:O	45:UI:290:GLU:HG2	2.10	0.51
46:UJ:322:SER:H	45:UK:221:ARG:NH1	2.08	0.51
46:UJ:322:SER:H	45:UK:221:ARG:CZ	2.23	0.51
45:UK:350:GLY:HA2	46:UL:179:VAL:HG12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:338:LYS:NZ	45:VA:341:ILE:HG13	2.26	0.51
46:VB:114:ASP:OD1	46:VB:115:SER:N	2.42	0.51
46:VD:109:GLY:HA2	46:VD:147:MET:HE2	1.92	0.51
45:VE:429:GLU:OE2	45:VE:430:LYS:HE3	2.11	0.51
46:VH:99:ASN:HD22	46:VH:142:GLY:H	1.57	0.51
46:VH:372:THR:HG21	46:VH:426:GLN:HB2	1.92	0.51
45:VI:3:GLU:HG3	45:VI:129:CYS:SG	2.51	0.51
46:VJ:165:GLU:OE2	46:VJ:250:LEU:HD11	2.09	0.51
46:VN:204:ASN:OD1	46:VN:205:GLU:N	2.44	0.51
46:WJ:186:THR:HA	46:WJ:189:VAL:HG12	1.91	0.51
45:WK:73:THR:HG22	46:WL:46:ARG:HH12	1.76	0.51
45:WK:180:ALA:HA	46:WL:350:LYS:HE2	1.93	0.51
46:WN:116:VAL:HA	46:WN:119:VAL:HG12	1.93	0.51
45:DC:183:GLU:N	45:DC:184:PRO:HD2	2.26	0.51
4:1D:99:ARG:HH22	45:EG:364:PRO:HA	1.76	0.51
8:1H:303:GLU:OE2	45:HC:282:TYR:CZ	2.64	0.51
18:1I:94:GLY:HA3	45:JC:82:THR:HG21	1.91	0.51
20:1K:42:GLU:OE1	46:KF:213:ARG:HA	2.11	0.51
20:1K:186:LEU:HD22	46:GD:362:LYS:HZ1	1.75	0.51
24:1P:392:LYS:HD2	45:TA:282:TYR:CE1	2.44	0.51
27:2C:25:LYS:HD3	45:LI:364:PRO:HB3	1.93	0.51
10:2Q:100:ARG:HH12	45:AE:434:GLU:HG2	1.76	0.51
14:3V:69:SER:OG	46:MB:336:LYS:HB3	2.10	0.51
35:5S:64:LEU:HB3	35:5S:107:GLU:HG2	1.92	0.51
46:AB:190:HIS:CD2	46:AB:411:ALA:HA	2.46	0.51
46:AH:5:VAL:HG12	46:AH:62:ARG:HD3	1.91	0.51
46:AJ:87:PRO:HA	46:AJ:90:PHE:HD2	1.76	0.51
46:AL:152:ILE:HD12	46:AL:164:MET:HE1	1.93	0.51
45:AM:320:ARG:NH2	45:AM:358:GLN:OE1	2.44	0.51
46:AN:268:ILE:O	46:AN:300:MET:HB2	2.11	0.51
45:BC:387:VAL:O	45:BC:390:ARG:HG2	2.11	0.51
46:BH:52:ASN:OD1	46:BH:62:ARG:NH2	2.38	0.51
45:BK:2:ARG:HB3	45:BK:133:GLN:HE22	1.76	0.51
46:CD:258:ILE:O	46:CD:258:ILE:HG13	2.10	0.51
46:CH:326:VAL:O	46:CH:330:MET:HG2	2.10	0.51
45:CI:117:LEU:O	45:CI:121:ARG:HG2	2.11	0.51
46:DD:19:LYS:O	46:DD:22:GLU:HG3	2.10	0.51
46:DD:148:GLY:O	46:DD:152:ILE:HG13	2.10	0.51
46:DD:166:THR:OG1	46:DD:199:CYS:SG	2.67	0.51
46:DF:67:ASP:OD1	46:DF:68:LEU:N	2.43	0.51
46:DF:344:TRP:HB3	46:DF:430:ALA:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DI:318:MET:HB2	45:DI:376:CYS:SG	2.50	0.51
45:DM:288:VAL:HA	45:DM:291:ILE:HG12	1.92	0.51
46:EB:298:ASN:ND2	46:EB:298:ASN:O	2.42	0.51
45:EC:55:GLU:HG3	45:EC:57:GLY:H	1.74	0.51
46:EN:31:ASP:OD2	46:EN:37:HIS:ND1	2.43	0.51
46:EN:45:GLU:HG3	46:EN:46:ARG:HG2	1.93	0.51
46:FB:207:LEU:HD13	46:FB:225:LEU:HB3	1.92	0.51
46:FB:262:ARG:NH1	46:FB:421:GLU:OE1	2.41	0.51
46:FB:342:VAL:HG13	46:FB:345:ILE:HG22	1.93	0.51
46:FF:21:TRP:CZ3	46:FF:61:PRO:HB3	2.46	0.51
46:FF:318:ARG:HB3	46:FF:357:PRO:HA	1.93	0.51
46:FH:362:LYS:HE2	46:FH:362:LYS:HA	1.92	0.51
46:GB:116:VAL:HA	46:GB:119:VAL:HG12	1.93	0.51
45:GG:221:ARG:NH1	46:GH:322:SER:H	2.08	0.51
46:GJ:350:LYS:NZ	46:GJ:352:SER:OG	2.44	0.51
45:HE:7:ILE:HB	45:HE:137:VAL:HG12	1.93	0.51
46:HF:131:GLN:O	46:HF:163:ILE:HG12	2.11	0.51
46:HH:16:ILE:HD12	46:HH:229:VAL:HG11	1.92	0.51
46:HJ:232:ALA:HB1	46:HJ:268:ILE:HD12	1.92	0.51
45:HK:210:TYR:CD1	46:HL:324:LYS:HD3	2.45	0.51
45:HK:328:VAL:O	45:HK:332:ILE:HG12	2.11	0.51
46:IB:67:ASP:O	46:IB:92:PHE:HA	2.11	0.51
46:IF:254:ALA:O	46:IF:258:ILE:HG22	2.11	0.51
45:II:107:HIS:O	45:II:107:HIS:ND1	2.44	0.51
45:JE:393:HIS:O	45:JE:397:LEU:HD23	2.10	0.51
45:JG:174:SER:HB2	45:JG:177:VAL:O	2.11	0.51
45:JG:210:TYR:CE1	45:JG:227:LEU:HD21	2.45	0.51
45:JK:213:CYS:SG	45:JK:222:PRO:HG3	2.51	0.51
46:KB:16:ILE:HD12	46:KB:229:VAL:HG21	1.93	0.51
46:KD:128:ASP:OD1	46:KD:129:CYS:N	2.43	0.51
45:KE:325:PRO:HA	45:KE:328:VAL:HG22	1.93	0.51
45:KG:9:VAL:HG23	45:KG:139:ASN:HB3	1.92	0.51
45:KK:208:ALA:O	45:KK:212:ILE:HG12	2.09	0.51
45:KK:326:LYS:NZ	46:KN:220:PRO:O	2.43	0.51
46:KL:41:ASP:O	46:KL:45:GLU:HG2	2.11	0.51
46:KL:101:TRP:HD1	46:KL:145:SER:HG	1.57	0.51
46:KN:169:VAL:HG23	46:KN:169:VAL:O	2.10	0.51
45:MA:414:GLU:CD	45:MA:416:GLY:H	2.13	0.51
46:MB:105:HIS:CE1	46:MB:150:LEU:HD12	2.45	0.51
46:MB:267:MET:HB2	46:MB:299:MET:HE2	1.93	0.51
46:MF:132:GLY:HA3	46:MF:163:ILE:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MF:139:LEU:HD13	46:MF:168:SER:HB3	1.92	0.51
45:MM:11:GLN:NE2	45:MM:71:GLU:OE2	2.36	0.51
46:NB:257:LEU:HD11	46:NB:314:SER:HB3	1.92	0.51
46:NH:325:GLU:HA	46:NH:328:GLU:HG3	1.93	0.51
45:OC:5:ILE:HD11	45:OC:135:PHE:CE2	2.45	0.51
45:OC:71:GLU:HG2	45:OC:98:ASP:HB3	1.91	0.51
46:OD:217:LEU:HG	46:OD:276:ARG:HH12	1.75	0.51
45:OE:298:PRO:HG3	45:OE:308:ARG:NH2	2.26	0.51
45:OE:399:TYR:OH	45:OE:415:GLU:OE2	2.27	0.51
46:OF:372:THR:HG21	46:OF:426:GLN:HG3	1.92	0.51
46:OL:130:LEU:O	46:OL:162:ARG:NE	2.40	0.51
45:OM:189:LEU:HD11	45:OM:418:PHE:HE1	1.76	0.51
45:PC:210:TYR:CE1	45:PC:227:LEU:HD21	2.45	0.51
46:PF:167:PHE:CZ	46:PF:200:MET:HG3	2.45	0.51
45:PG:331:SER:O	45:PG:335:ILE:HG12	2.11	0.51
46:PH:153:SER:HB3	46:PH:154:LYS:HZ2	1.75	0.51
45:PI:21:TRP:CZ2	45:PI:65:ALA:HB2	2.45	0.51
46:PJ:68:LEU:HD12	46:PJ:93:GLY:HA3	1.92	0.51
46:PL:238:CYS:SG	46:PL:239:CYS:N	2.83	0.51
46:PL:247:ASN:O	46:PL:252:LYS:NZ	2.32	0.51
46:PN:210:ILE:O	46:PN:214:THR:HG22	2.10	0.51
45:QE:52:PHE:HZ	45:QE:239:THR:HG21	1.74	0.51
46:QF:344:TRP:HB3	46:QF:430:ALA:HB2	1.92	0.51
45:QG:217:LEU:HD22	45:QG:367:ASP:HB3	1.92	0.51
46:QH:252:LYS:HZ1	47:QI:501:GTP:PG	2.33	0.51
46:QL:362:LYS:HD2	46:QL:363:MET:HG2	1.93	0.51
45:RC:104:ALA:HB2	45:RC:413:MET:SD	2.50	0.51
45:RG:229:ARG:NH1	45:RG:366:GLY:HA2	2.26	0.51
45:RG:255:PHE:HA	45:RG:259:LEU:HD23	1.92	0.51
46:RH:289:LEU:HD13	46:RH:365:VAL:HG23	1.93	0.51
46:SD:332:ASN:HA	46:SD:335:ASN:ND2	2.25	0.51
46:SF:309:ARG:H	46:SF:372:THR:HG22	1.75	0.51
45:SG:141:VAL:HG12	45:SG:171:ILE:O	2.10	0.51
46:SL:73:MET:HA	46:SL:76:VAL:HG22	1.92	0.51
46:TH:161:ASP:O	46:TH:251:ARG:NH2	2.42	0.51
45:TK:28:HIS:NE2	45:TK:49:PHE:HB3	2.25	0.51
46:UB:208:TYR:CE1	46:UB:225:LEU:HD11	2.45	0.51
45:UC:3:GLU:OE2	45:UC:131:GLY:N	2.43	0.51
45:UC:223:THR:HG23	45:UC:225:THR:H	1.75	0.51
45:UE:250:VAL:HG13	45:UE:254:GLU:HB2	1.93	0.51
45:UK:2:ARG:O	45:UK:51:THR:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:20:PHE:O	46:UN:24:ILE:HG12	2.11	0.51
46:UN:190:HIS:CE1	46:UN:414:ASN:HD22	2.28	0.51
46:UN:293:MET:SD	46:UN:365:VAL:HG11	2.50	0.51
45:VA:326:LYS:HG3	45:VA:327:ASP:N	2.25	0.51
45:VG:140:SER:OG	47:VG:501:GTP:O2B	2.27	0.51
46:VL:105:HIS:CE1	46:VL:150:LEU:HD12	2.45	0.51
46:VL:117:LEU:HA	46:VL:120:VAL:HG12	1.92	0.51
46:VL:186:THR:HA	46:VL:189:VAL:HG12	1.90	0.51
45:WC:346:TRP:CD1	46:WF:391:ARG:HG3	2.46	0.51
45:DC:259:LEU:HD21	45:DC:316:SER:HB2	1.91	0.51
21:1L:41:LYS:NZ	46:BJ:40:SER:HA	2.25	0.51
24:1P:302:LYS:HZ2	46:TD:362:LYS:HE2	1.76	0.51
22:2M:17:ALA:HB2	45:JG:282:TYR:CE1	2.45	0.51
12:2T:147:PHE:CZ	46:MJ:106:TYR:HB3	2.45	0.51
26:2W:265:LEU:HD22	45:LK:370:LYS:HZ1	1.72	0.51
37:5G:123:ARG:HB3	45:OI:372:MET:HE3	1.91	0.51
37:5G:213:TYR:HD1	37:5G:216:LYS:HD2	1.76	0.51
39:6F:118:HIS:HA	39:6F:121:GLU:OE1	2.10	0.51
40:6G:122:TYR:HA	46:VJ:213:ARG:HH12	1.75	0.51
40:6G:277:LEU:C	40:6G:279:TYR:H	2.14	0.51
34:6R:426:PHE:HE2	34:6R:490:PHE:HB3	1.76	0.51
34:6R:427:GLU:OE1	34:6R:507:ARG:HG2	2.11	0.51
45:AC:420:GLU:HA	45:AC:423:GLU:OE1	2.11	0.51
46:AD:12:CYS:O	46:AD:16:ILE:HG12	2.11	0.51
46:AD:332:ASN:O	46:AD:336:LYS:HG2	2.11	0.51
45:AG:11:GLN:NE2	47:AG:501:GTP:O3A	2.44	0.51
45:AM:430:LYS:O	45:AM:433:GLU:HG2	2.11	0.51
46:AN:315:ALA:HB1	46:AN:317:PHE:CE1	2.46	0.51
46:BD:287:PRO:HG3	46:BD:329:GLN:NE2	2.26	0.51
46:BH:55:THR:O	46:CF:280:GLN:NE2	2.37	0.51
46:BH:222:TYR:HD1	49:BH:501:GDP:C6	2.29	0.51
46:BL:178:THR:HB	46:BL:181:GLU:HG3	1.91	0.51
45:CC:296:PHE:CE2	45:CC:335:ILE:HD13	2.46	0.51
46:CH:171:PRO:HB3	46:CH:181:GLU:OE2	2.10	0.51
46:CJ:313:ALA:HB1	46:CJ:367:PHE:HE1	1.76	0.51
45:DA:188:ILE:HD11	45:DA:391:LEU:HB3	1.93	0.51
46:DL:86:ARG:HH11	46:EL:281:TYR:HB2	1.75	0.51
46:EB:261:PRO:HD3	45:EC:406:HIS:CE1	2.46	0.51
45:EC:3:GLU:HG2	45:EC:64:ARG:CZ	2.40	0.51
45:EC:241:SER:OG	45:EC:250:VAL:O	2.23	0.51
45:EE:208:ALA:O	45:EE:212:ILE:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EI:37:PRO:HD2	45:EI:40:LYS:HB2	1.93	0.51
46:EL:67:ASP:O	46:EL:92:PHE:HA	2.11	0.51
45:FC:90:GLU:HB2	45:FC:121:ARG:HH21	1.74	0.51
45:FC:164:LYS:O	45:FC:166:LYS:NZ	2.43	0.51
46:FD:215:LEU:HB2	46:FD:217:LEU:HD22	1.93	0.51
46:FJ:66:MET:HA	46:FJ:91:VAL:O	2.11	0.51
45:FK:275:ILE:HA	45:FK:368:LEU:HD11	1.92	0.51
46:GB:372:THR:HA	46:GB:422:TYR:HE2	1.75	0.51
46:GJ:12:CYS:O	46:GJ:16:ILE:HG12	2.10	0.51
45:GK:248:LEU:HD13	45:GK:355:ILE:HD12	1.92	0.51
46:GL:287:PRO:HG3	46:GL:329:GLN:NE2	2.26	0.51
45:HA:326:LYS:HZ3	46:HD:212:PHE:HB2	1.74	0.51
45:HC:68:LEU:HD11	45:HC:118:CYS:SG	2.50	0.51
45:HC:414:GLU:CD	45:HC:416:GLY:H	2.14	0.51
46:HD:193:VAL:HA	46:HD:264:HIS:HE1	1.76	0.51
45:HI:21:TRP:CZ2	45:HI:65:ALA:HB2	2.45	0.51
45:HK:333:ALA:O	45:HK:337:THR:HG23	2.10	0.51
45:IA:249:ASN:OD1	45:IA:250:VAL:N	2.43	0.51
45:IC:107:HIS:ND1	45:IC:107:HIS:O	2.44	0.51
46:ID:65:LEU:HD22	46:ID:90:PHE:CE1	2.46	0.51
45:IK:69:ASP:OD1	45:IK:70:LEU:N	2.44	0.51
45:JA:298:PRO:HD2	45:JA:299:ALA:N	2.25	0.51
45:JI:337:THR:O	45:JI:339:ARG:NH1	2.44	0.51
46:JJ:145:SER:OG	46:JJ:188:SER:HB3	2.10	0.51
45:JK:102:ASN:ND2	45:JK:105:ARG:HG3	2.25	0.51
45:JK:335:ILE:HA	45:JK:338:LYS:HZ2	1.76	0.51
46:KB:9:GLY:HA2	46:KB:66:MET:O	2.11	0.51
46:KB:67:ASP:O	46:KB:92:PHE:HA	2.11	0.51
45:KG:246:GLY:HA2	45:KG:357:TYR:HD2	1.75	0.51
45:LA:60:LYS:HD3	45:MA:283:HIS:HB3	1.93	0.51
46:LB:313:ALA:HB3	46:LB:349:ILE:HG12	1.93	0.51
45:LI:196:GLU:OE1	45:LI:196:GLU:N	2.44	0.51
46:LJ:6:HIS:O	46:LJ:63:ALA:HA	2.10	0.51
45:ME:68:LEU:HD11	45:ME:118:CYS:SG	2.51	0.51
45:ME:140:SER:OG	47:ME:501:GTP:O2B	2.26	0.51
46:MN:405:GLU:HA	46:MN:408:PHE:HD2	1.76	0.51
45:NA:19:ALA:O	45:NA:22:GLU:HG2	2.11	0.51
45:NA:21:TRP:CZ2	45:NA:65:ALA:HB2	2.46	0.51
45:NC:9:VAL:HG13	45:NC:139:ASN:HB3	1.93	0.51
46:ND:67:ASP:O	46:ND:92:PHE:HA	2.10	0.51
45:NG:338:LYS:HE2	45:NG:340:THR:H	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NJ:64:ILE:HD11	46:NJ:123:GLU:HG3	1.92	0.51
46:NJ:73:MET:HE1	46:NJ:92:PHE:CD1	2.45	0.51
46:NJ:324:LYS:HB2	46:NJ:324:LYS:HZ3	1.76	0.51
46:OB:399:THR:HA	46:OB:403:MET:O	2.11	0.51
45:OC:89:PRO:HD2	45:PC:280:LYS:HG2	1.93	0.51
45:OC:221:ARG:HH12	46:OD:320:ARG:HH22	1.59	0.51
45:OI:69:ASP:OD1	45:OI:70:LEU:N	2.43	0.51
45:OM:206:ASN:O	45:OM:210:TYR:HD2	1.94	0.51
45:PA:124:LYS:NZ	45:PA:128:ASN:OD1	2.44	0.51
45:PE:98:ASP:OD1	45:PE:99:ALA:N	2.44	0.51
45:PG:224:TYR:HE1	47:PG:501:GTP:C4	2.29	0.51
45:PI:90:GLU:HG3	45:QI:280:LYS:HZ2	1.76	0.51
45:PI:145:THR:HG22	47:PI:501:GTP:PG	2.51	0.51
45:PM:100:ALA:HB1	46:PN:252:LYS:HA	1.92	0.51
46:QD:312:THR:HG22	46:QD:370:ASN:HB3	1.92	0.51
46:QH:10:GLY:O	46:QH:14:ASN:ND2	2.44	0.51
46:QJ:73:MET:HE3	46:QJ:92:PHE:HB3	1.92	0.51
45:QK:346:TRP:CD1	46:QL:391:ARG:HG3	2.45	0.51
45:QK:393:HIS:O	45:QK:397:LEU:HD23	2.11	0.51
46:QN:100:ASN:HD21	46:QN:102:ALA:HB3	1.76	0.51
45:RG:328:VAL:HG11	45:RG:353:VAL:HG21	1.92	0.51
45:RI:292:THR:HG21	45:RI:331:SER:HB2	1.90	0.51
45:RK:265:ILE:HG12	45:RK:432:TYR:HE1	1.74	0.51
46:SD:380:ARG:O	46:SD:384:GLN:HG2	2.10	0.51
46:SF:347:ASN:O	45:SG:181:VAL:HG12	2.11	0.51
45:SG:183:GLU:N	45:SG:184:PRO:HD2	2.26	0.51
45:SK:248:LEU:HB3	45:SK:355:ILE:HG12	1.92	0.51
46:TF:58:ARG:HH12	46:UF:280:GLN:HB3	1.75	0.51
46:TH:21:TRP:HA	46:TH:24:ILE:HG22	1.93	0.51
46:TH:318:ARG:HD3	46:TH:358:PRO:HD3	1.93	0.51
46:TJ:167:PHE:CE2	46:TJ:233:MET:HG2	2.45	0.51
45:UE:10:GLY:O	45:UE:14:ILE:HG12	2.11	0.51
46:UF:296:ALA:HB3	46:UF:297:LYS:NZ	2.26	0.51
46:UJ:116:VAL:HA	46:UJ:119:VAL:HG12	1.93	0.51
46:UJ:121:ARG:O	46:UJ:124:ALA:N	2.44	0.51
46:UJ:342:VAL:HG13	46:UJ:345:ILE:HG22	1.93	0.51
46:UL:200:MET:CE	46:UL:268:ILE:HG12	2.41	0.51
46:VF:16:ILE:HD13	46:VF:226:ASN:OD1	2.09	0.51
46:WH:30:ILE:HG13	46:WH:51:TYR:HE1	1.76	0.51
46:WJ:303:ALA:HB2	46:WJ:377:MET:SD	2.51	0.51
46:WL:222:TYR:HA	46:WL:225:LEU:HG	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WN:63:ALA:O	46:WN:89:ASN:ND2	2.33	0.51
4:1D:224:ARG:NH2	34:4R:492:ILE:HG13	2.26	0.51
36:5A:57:PRO:HG2	46:KB:390:ARG:CZ	2.40	0.51
37:5E:116:TYR:OH	45:OA:283:HIS:NE2	2.38	0.51
37:5E:142:TYR:HA	37:5E:145:GLU:OE2	2.10	0.51
37:5H:61:LYS:HZ2	46:ON:276:ARG:HH21	1.59	0.51
35:5S:167:LYS:O	35:5S:171:SER:HB3	2.11	0.51
10:6Q:169:ASP:HB2	10:6Q:170:ARG:HH11	1.75	0.51
34:6R:80:ARG:NH2	45:MM:36:MET:O	2.43	0.51
45:AI:283:HIS:CD2	45:MI:60:LYS:HD2	2.45	0.51
45:AK:69:ASP:OD1	45:AK:70:LEU:N	2.44	0.51
45:AK:268:MET:HB2	45:AK:379:SER:O	2.10	0.51
45:BA:231:ILE:O	45:BA:235:ILE:HG12	2.09	0.51
46:BL:3:GLU:HG3	46:BL:62:ARG:HH12	1.76	0.51
45:BM:90:GLU:HG3	45:BM:121:ARG:HH12	1.76	0.51
45:CA:5:ILE:HD11	45:CA:135:PHE:CE1	2.45	0.51
46:CB:350:LYS:HZ3	45:CC:181:VAL:HG12	1.76	0.51
46:CF:274:THR:HB	46:CF:282:ARG:HH11	1.76	0.51
46:CF:350:LYS:HZ1	45:CG:181:VAL:HG12	1.74	0.51
45:CK:113:GLU:HG3	45:CK:114:ILE:HG12	1.92	0.51
46:CN:97:ALA:HA	46:CN:103:LYS:HG2	1.93	0.51
45:DA:271:SER:HB2	45:DA:377:MET:HB3	1.93	0.51
46:DB:19:LYS:O	46:DB:22:GLU:HG3	2.11	0.51
46:DB:47:ILE:HD12	46:DB:59:TYR:HE1	1.74	0.51
46:DD:174:LYS:HB2	46:DD:205:GLU:OE2	2.11	0.51
45:DM:91:GLN:HG3	45:DM:92:LEU:HD12	1.93	0.51
46:DN:221:THR:HG23	46:DN:224:ASP:H	1.76	0.51
45:EA:244:PHE:HB2	45:EA:356:ASN:HD21	1.74	0.51
45:EE:288:VAL:HA	45:EE:291:ILE:HG12	1.92	0.51
45:EE:329:ASN:OD1	45:EE:330:ALA:N	2.43	0.51
46:EF:173:PRO:HG2	46:EF:380:ARG:HE	1.75	0.51
46:EF:267:MET:HB2	46:EF:299:MET:HE1	1.92	0.51
45:EG:188:ILE:HD12	45:EG:425:LEU:HD11	1.91	0.51
46:EH:67:ASP:OD1	46:EH:68:LEU:N	2.44	0.51
46:EH:105:HIS:CE1	46:EH:150:LEU:HD12	2.46	0.51
46:EH:394:PHE:HA	46:EH:397:TRP:HZ3	1.76	0.51
46:EN:268:ILE:HG22	46:EN:368:VAL:HG22	1.92	0.51
45:FE:223:THR:HG23	45:FE:225:THR:H	1.76	0.51
45:FG:362:VAL:HG23	45:FG:368:LEU:HD12	1.91	0.51
46:FJ:377:MET:O	46:FJ:381:VAL:HG22	2.10	0.51
46:FL:350:LYS:HA	46:FL:350:LYS:HE2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FM:11:GLN:HG3	45:FM:74:VAL:HG11	1.93	0.51
45:GC:22:GLU:OE1	45:GC:363:VAL:HG21	2.11	0.51
45:GE:222:PRO:HD2	46:GF:324:LYS:CE	2.41	0.51
45:GG:328:VAL:HG21	45:GG:353:VAL:HG21	1.92	0.51
46:GL:333:VAL:O	46:GL:337:ASN:ND2	2.43	0.51
46:GN:398:TYR:HD1	46:GN:403:MET:HE1	1.76	0.51
45:HA:221:ARG:NH2	46:HB:321:MET:HB2	2.26	0.51
46:HB:6:HIS:O	46:HB:63:ALA:HA	2.11	0.51
46:HB:118:ASP:O	46:HB:121:ARG:HG3	2.11	0.51
46:HB:132:GLY:HA2	46:HB:162:ARG:HB3	1.91	0.51
46:HD:36:TYR:CD2	46:HD:44:LEU:HD21	2.45	0.51
45:IA:215:ARG:NH2	45:IA:300:ASN:OD1	2.44	0.51
46:IB:166:THR:HG21	46:IB:192:LEU:HD11	1.93	0.51
46:ID:117:LEU:HA	46:ID:120:VAL:HG12	1.93	0.51
46:ID:207:LEU:HD23	46:ID:300:MET:HG2	1.93	0.51
46:IF:311:LEU:HD23	46:IF:342:VAL:HG11	1.92	0.51
46:IF:378:PHE:HB3	46:IF:415:MET:SD	2.51	0.51
45:IM:15:GLN:HA	45:IM:18:ASN:HD22	1.75	0.51
45:JC:2:ARG:HD3	45:JC:2:ARG:H	1.76	0.51
46:JJ:181:GLU:HB3	46:JJ:182:PRO:HD3	1.93	0.51
45:JK:256:GLN:HB2	46:JN:397:TRP:CH2	2.46	0.51
46:JN:44:LEU:HA	46:JN:47:ILE:HG23	1.93	0.51
45:KA:426:ALA:O	45:KA:430:LYS:HG3	2.11	0.51
46:KB:178:THR:HG22	46:KB:180:VAL:H	1.76	0.51
46:KF:51:TYR:HB3	46:KF:59:TYR:HB3	1.92	0.51
46:KF:417:ASP:O	46:KF:421:GLU:HG2	2.11	0.51
45:KG:205:ASP:OD1	45:KG:303:ALA:HA	2.11	0.51
46:LB:326:VAL:O	46:LB:330:MET:HG2	2.10	0.51
46:LF:54:ALA:HB3	46:LF:58:ARG:HG2	1.93	0.51
45:LG:172:TYR:HD1	45:LG:203:MET:SD	2.34	0.51
46:LJ:206:ALA:O	46:LJ:210:ILE:HG12	2.09	0.51
46:LL:21:TRP:CZ3	46:LL:61:PRO:HB3	2.45	0.51
46:LN:6:HIS:O	46:LN:63:ALA:HA	2.11	0.51
45:MG:329:ASN:ND2	46:MJ:175:VAL:HG21	2.26	0.51
45:NA:239:THR:HG23	45:NA:243:ARG:HH21	1.76	0.51
45:NC:224:TYR:HD1	45:NC:227:LEU:HD12	1.76	0.51
46:NH:309:ARG:HE	46:NH:342:VAL:HA	1.75	0.51
46:NJ:178:THR:HB	46:NJ:181:GLU:HG3	1.91	0.51
45:NK:35:GLN:OE1	45:NK:60:LYS:HB3	2.11	0.51
45:OA:274:PRO:HG3	45:OA:371:VAL:HG11	1.91	0.51
46:OF:372:THR:HA	46:OF:422:TYR:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OG:268:MET:HG3	45:OG:380:ASN:HB2	1.92	0.51
46:ON:11:GLN:NE2	49:ON:501:GDP:O1A	2.44	0.51
46:PB:260:PHE:HB2	46:PB:263:LEU:HD13	1.93	0.51
45:PC:265:ILE:HG22	45:PC:380:ASN:HD21	1.75	0.51
46:PD:70:PRO:HG3	46:PD:92:PHE:HB2	1.93	0.51
46:PF:16:ILE:HD13	46:PF:226:ASN:OD1	2.11	0.51
45:PG:215:ARG:HA	45:PG:215:ARG:CZ	2.40	0.51
45:PI:265:ILE:HG12	45:PI:432:TYR:HE1	1.75	0.51
46:PL:345:ILE:O	46:PL:345:ILE:HG13	2.11	0.51
46:QB:161:ASP:O	46:QB:251:ARG:NH2	2.43	0.51
46:QB:312:THR:HG22	46:QB:370:ASN:HB3	1.93	0.51
45:QC:329:ASN:HA	45:QC:332:ILE:HG12	1.92	0.51
46:QD:257:LEU:HD11	46:QD:314:SER:HB2	1.93	0.51
45:QE:183:GLU:N	45:QE:184:PRO:HD2	2.26	0.51
46:QH:12:CYS:O	46:QH:16:ILE:HG12	2.10	0.51
46:QH:258:ILE:HG13	45:QI:407:TRP:HE1	1.76	0.51
46:QL:235:GLY:HA3	46:QL:366:THR:HG21	1.92	0.51
45:RC:141:VAL:HG11	45:RC:172:TYR:HA	1.93	0.51
46:RF:114:ASP:OD1	46:RF:115:SER:N	2.42	0.51
45:RG:268:MET:HE2	45:RG:380:ASN:HB2	1.92	0.51
45:RG:352:LYS:NZ	46:RH:179:VAL:H	1.98	0.51
45:RK:254:GLU:OE1	45:RK:257:THR:OG1	2.29	0.51
45:RK:269:LEU:HD12	45:RK:303:ALA:HB3	1.93	0.51
45:RM:207:GLU:O	45:RM:210:TYR:HB3	2.11	0.51
45:RM:387:VAL:HG12	45:RM:390:ARG:HH22	1.75	0.51
46:SJ:86:ARG:HH12	46:TJ:281:TYR:HD2	1.58	0.51
46:SJ:181:GLU:HG2	46:SJ:182:PRO:HD3	1.93	0.51
46:SL:252:LYS:HD2	45:SM:101:ASN:ND2	2.26	0.51
46:TB:357:PRO:HB2	46:TB:361:LEU:O	2.11	0.51
46:TJ:139:LEU:HD13	46:TJ:168:SER:HB3	1.91	0.51
45:TK:183:GLU:N	45:TK:184:PRO:HD2	2.26	0.51
46:TN:86:ARG:HG3	46:TN:88:ASP:H	1.76	0.51
45:UI:316:SER:HA	45:UI:352:LYS:HB2	1.92	0.51
46:UJ:178:THR:HG22	46:UJ:180:VAL:H	1.76	0.51
45:VA:221:ARG:NH2	46:VB:321:MET:SD	2.84	0.51
45:VI:56:THR:HG23	45:VI:58:ALA:H	1.75	0.51
46:VJ:409:THR:O	46:VJ:412:GLU:HG2	2.10	0.51
45:VK:336:LYS:HD3	45:VK:351:PHE:CZ	2.46	0.51
46:VL:146:GLY:O	46:VL:149:THR:HG22	2.11	0.51
45:WA:209:ILE:HG12	45:WA:302:MET:HG3	1.91	0.51
45:WA:211:ASP:O	45:WA:215:ARG:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WB:69:GLU:OE2	46:WB:96:GLY:N	2.44	0.51
45:WG:258:ASN:ND2	45:WG:352:LYS:HE3	2.26	0.51
46:WH:6:HIS:O	46:WH:63:ALA:HA	2.10	0.51
46:WL:186:THR:HA	46:WL:189:VAL:HG12	1.91	0.51
46:WN:251:ARG:O	46:WN:255:VAL:HG23	2.11	0.51
14:1V:137:ASN:ND2	46:LL:425:TYR:OH	2.44	0.51
20:2K:269:GLU:CD	45:GK:370:LYS:H	2.13	0.51
35:4S:147:LYS:HE3	46:AD:413:SER:HB2	1.92	0.51
35:5S:68:TYR:O	35:5S:71:ARG:HB3	2.11	0.51
34:6R:87:LYS:HE3	34:6R:88:TYR:CZ	2.46	0.51
34:7R:114:ARG:NH2	34:7R:131:GLU:OE2	2.44	0.51
46:AF:345:ILE:O	46:AF:345:ILE:HG13	2.11	0.51
46:AH:91:VAL:HG21	46:AH:116:VAL:HB	1.93	0.51
46:AN:47:ILE:HG22	46:AN:51:TYR:HB2	1.93	0.51
45:BC:192:HIS:CD2	45:BC:421:ALA:HA	2.45	0.51
46:BD:64:ILE:HA	46:BD:89:ASN:HB3	1.93	0.51
45:BE:134:GLY:HA2	45:BE:164:LYS:HE2	1.93	0.51
47:BE:501:GTP:O1G	46:BF:252:LYS:NZ	2.38	0.51
45:BI:88:HIS:HB3	45:BI:91:GLN:HG3	1.92	0.51
45:BI:167:LEU:HG	45:BI:200:VAL:HB	1.93	0.51
45:CA:108:TYR:HA	45:CA:112:LYS:HE3	1.93	0.51
46:CB:217:LEU:HB3	46:CB:276:ARG:NH1	2.25	0.51
46:CN:65:LEU:HB2	46:CN:90:PHE:HD1	1.75	0.51
46:DD:87:PRO:HA	46:DD:90:PHE:CD2	2.46	0.51
45:DE:101:ASN:HA	45:DE:144:GLY:H	1.76	0.51
45:DE:175:PRO:HG3	45:DE:390:ARG:NH2	2.25	0.51
46:DF:375:GLN:HG3	46:DF:419:VAL:HG13	1.93	0.51
45:DG:231:ILE:O	45:DG:235:ILE:HG12	2.11	0.51
45:DM:183:GLU:N	45:DM:184:PRO:HD2	2.26	0.51
46:EF:271:ALA:HB3	46:EF:365:VAL:HB	1.92	0.51
46:EH:5:VAL:HG12	46:EH:62:ARG:HD3	1.93	0.51
45:EM:239:THR:HG23	45:EM:243:ARG:HE	1.75	0.51
45:FC:288:VAL:HG11	45:FC:327:ASP:HB3	1.93	0.51
46:FD:191:GLN:O	46:FD:195:ASN:ND2	2.42	0.51
45:FI:274:PRO:HG3	45:FI:286:LEU:HD23	1.93	0.51
45:GA:90:GLU:HG2	45:GA:121:ARG:NH2	2.26	0.51
45:GC:242:LEU:HD11	45:GC:252:ILE:HG23	1.93	0.51
45:GE:205:ASP:OD1	45:GE:303:ALA:HA	2.11	0.51
45:GG:183:GLU:N	45:GG:184:PRO:HD2	2.26	0.51
45:GG:226:ASN:O	45:GG:230:LEU:HG	2.10	0.51
45:GI:33:ASP:OD1	45:GI:33:ASP:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GI:257:THR:HA	46:GL:397:TRP:CH2	2.45	0.51
46:GL:167:PHE:CE2	46:GL:233:MET:HG2	2.45	0.51
45:HC:265:ILE:HG22	45:HC:380:ASN:HD21	1.75	0.51
45:HC:407:TRP:CH2	46:HD:258:ILE:HG13	2.46	0.51
46:HD:257:LEU:HB3	46:HD:266:PHE:CZ	2.46	0.51
45:HE:231:ILE:O	45:HE:235:ILE:HG12	2.11	0.51
45:IA:339:ARG:NE	45:IA:339:ARG:HA	2.25	0.51
46:IB:6:HIS:HB2	46:IB:134:GLN:HE21	1.76	0.51
46:IB:238:CYS:SG	46:IB:239:CYS:N	2.84	0.51
45:II:2:ARG:NH1	45:II:242:LEU:O	2.40	0.51
46:IJ:299:MET:HG3	46:IJ:305:PRO:HG3	1.93	0.51
45:IK:71:GLU:OE1	45:IK:73:THR:HG22	2.11	0.51
45:IK:276:ILE:HD11	45:IK:280:LYS:NZ	2.26	0.51
46:IL:36:TYR:CZ	46:IL:44:LEU:HG	2.46	0.51
46:IN:145:SER:OG	46:IN:188:SER:HB3	2.10	0.51
45:JC:17:GLY:HA2	45:JC:20:CYS:SG	2.51	0.51
45:JC:205:ASP:OD1	45:JC:303:ALA:HA	2.11	0.51
46:JF:375:GLN:O	46:JF:379:LYS:HG3	2.10	0.51
46:JH:380:ARG:O	46:JH:383:GLU:HG3	2.10	0.51
45:JK:286:LEU:HD13	45:JK:371:VAL:HG23	1.92	0.51
45:JK:426:ALA:HB1	45:JK:430:LYS:NZ	2.26	0.51
46:JN:186:THR:HA	46:JN:189:VAL:HG12	1.91	0.51
45:KC:98:ASP:OD2	45:KC:99:ALA:N	2.43	0.51
45:KC:325:PRO:HB2	46:KF:208:TYR:OH	2.10	0.51
45:KG:88:HIS:ND1	45:KG:90:GLU:HG2	2.26	0.51
46:KH:12:CYS:O	46:KH:16:ILE:HG12	2.11	0.51
45:LA:119:LEU:HD11	45:LA:156:ARG:HG2	1.93	0.51
46:LB:67:ASP:OD1	46:LB:68:LEU:N	2.43	0.51
45:LC:272:TYR:HD2	45:LC:275:ILE:HD11	1.76	0.51
46:LH:67:ASP:OD2	46:LH:72:THR:OG1	2.27	0.51
45:LM:17:GLY:HA2	45:LM:20:CYS:SG	2.51	0.51
45:LM:183:GLU:N	45:LM:184:PRO:HD2	2.26	0.51
46:MD:304:ASP:OD1	46:MD:306:ARG:NH2	2.44	0.51
45:ME:118:CYS:O	45:ME:122:ILE:HG12	2.10	0.51
45:ME:326:LYS:HZ2	46:MH:220:PRO:HD2	1.76	0.51
46:MF:27:GLU:OE1	46:MF:241:ARG:NH1	2.31	0.51
46:MJ:68:LEU:HD23	46:MJ:143:THR:OG1	2.10	0.51
45:NA:214:ARG:NH1	45:NA:220:GLU:HA	2.26	0.51
46:NB:377:MET:HG3	46:NB:380:ARG:HH22	1.75	0.51
45:NC:88:HIS:H	45:NC:91:GLN:NE2	2.08	0.51
45:NC:254:GLU:OE1	46:NF:99:ASN:ND2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:190:HIS:CD2	46:ND:411:ALA:HA	2.46	0.51
46:NF:313:ALA:HB1	46:NF:367:PHE:HE1	1.76	0.51
45:NI:271:SER:HA	45:NI:302:MET:HG3	1.93	0.51
46:NJ:73:MET:SD	46:NJ:90:PHE:HB3	2.51	0.51
45:OA:119:LEU:HA	45:OA:122:ILE:HG22	1.93	0.51
45:OC:10:GLY:O	45:OC:14:ILE:HG12	2.11	0.51
46:OF:58:ARG:HH22	46:OF:84:LEU:HD23	1.75	0.51
46:OF:341:PHE:CE1	46:OF:349:ILE:HD11	2.46	0.51
46:OJ:316:LEU:HD13	46:OJ:352:SER:HB3	1.91	0.51
45:PA:171:ILE:HG23	45:PA:204:LEU:O	2.11	0.51
46:PB:52:ASN:OD1	46:PB:62:ARG:NH2	2.44	0.51
46:PB:167:PHE:CE2	46:PB:233:MET:HG2	2.45	0.51
45:PC:328:VAL:HG11	45:PC:353:VAL:HG21	1.93	0.51
46:PF:377:MET:HG3	46:PF:380:ARG:HH21	1.76	0.51
46:PH:389:PHE:HZ	46:PH:405:GLU:HG2	1.75	0.51
45:PK:326:LYS:HD3	46:PN:212:PHE:CZ	2.44	0.51
46:PL:178:THR:HB	46:PL:181:GLU:HG2	1.93	0.51
45:PM:102:ASN:HB3	45:PM:105:ARG:HB2	1.93	0.51
46:PN:86:ARG:NH2	46:QL:277:GLY:O	2.41	0.51
46:QD:86:ARG:HA	46:RD:281:TYR:CE1	2.46	0.51
46:QD:221:THR:HG23	46:QD:224:ASP:H	1.75	0.51
45:QG:136:LEU:HD23	45:QG:167:LEU:HB2	1.91	0.51
46:QJ:312:THR:HG22	46:QJ:370:ASN:HB3	1.92	0.51
46:QL:52:ASN:OD1	46:QL:62:ARG:NH2	2.44	0.51
46:QL:344:TRP:CZ3	45:QM:401:LYS:HD3	2.46	0.51
46:RB:5:VAL:HG11	46:RB:123:GLU:HG3	1.92	0.51
45:RE:67:PHE:HB2	45:RE:92:LEU:HD13	1.92	0.51
45:RI:188:ILE:HG23	45:RI:425:LEU:HD11	1.92	0.51
45:RI:252:ILE:HA	45:RI:255:PHE:CE2	2.46	0.51
46:TB:150:LEU:HG	46:TB:154:LYS:NZ	2.25	0.51
45:TM:141:VAL:HG11	45:TM:172:TYR:HD1	1.75	0.51
45:TM:224:TYR:O	45:TM:228:ASN:ND2	2.44	0.51
45:UC:175:PRO:HA	45:UC:390:ARG:CZ	2.41	0.51
46:UD:322:SER:H	45:UE:221:ARG:HH12	1.57	0.51
45:UE:151:SER:O	45:UE:155:GLU:OE1	2.29	0.51
45:UG:242:LEU:HD11	45:UG:252:ILE:HG23	1.93	0.51
46:UJ:186:THR:HA	46:UJ:189:VAL:HG12	1.92	0.51
45:UM:395:PHE:HZ	45:UM:418:PHE:HB3	1.76	0.51
45:VA:121:ARG:HE	45:VA:124:LYS:NZ	2.08	0.51
45:VA:426:ALA:O	45:VA:429:GLU:HG2	2.11	0.51
45:VC:324:VAL:HG11	45:VC:326:LYS:NZ	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VC:407:TRP:HE1	46:VD:258:ILE:HG13	1.75	0.51
45:VK:174:SER:HB3	45:VK:207:GLU:HG3	1.93	0.51
45:VK:387:VAL:HA	45:VK:390:ARG:HG2	1.92	0.51
46:VL:86:ARG:HB3	46:VL:89:ASN:OD1	2.11	0.51
46:VN:117:LEU:HA	46:VN:120:VAL:HG12	1.93	0.51
46:VN:150:LEU:HG	46:VN:154:LYS:NZ	2.25	0.51
45:WC:56:THR:HG23	45:WC:58:ALA:H	1.76	0.51
46:WD:164:MET:HG2	46:WD:196:ALA:HA	1.93	0.51
45:WE:346:TRP:CD1	46:WH:391:ARG:HG3	2.45	0.51
46:WF:239:CYS:HB2	46:WF:316:LEU:HD11	1.92	0.51
45:WG:22:GLU:OE2	45:WG:83:TYR:HE2	1.94	0.51
46:WH:282:ARG:NH2	46:WH:292:GLN:OE1	2.29	0.51
45:WK:41:THR:HG22	45:WK:42:ILE:N	2.24	0.51
45:WK:99:ALA:HA	45:WK:105:ARG:HD2	1.93	0.51
45:WK:356:ASN:OD1	45:WK:357:TYR:N	2.44	0.51
46:WL:67:ASP:O	46:WL:92:PHE:HA	2.10	0.51
45:CE:254:GLU:OE2	45:CE:258:ASN:ND2	2.44	0.51
45:CE:298:PRO:HA	45:CE:301:MET:HE3	1.93	0.51
21:1L:314:ASN:HB2	46:BH:320:ARG:HH12	1.74	0.51
27:4C:232:PHE:CE1	46:JN:53:GLU:HB3	2.45	0.51
15:4X:31:ASP:OD2	46:LL:218:THR:OG1	2.28	0.51
36:5C:54:ARG:HH11	36:5C:56:ILE:HD13	1.76	0.51
34:5R:231:TYR:CZ	46:CJ:216:LYS:HG3	2.45	0.51
34:5R:531:THR:HG22	34:5R:584:GLU:OE1	2.11	0.51
35:5S:125:GLU:HB3	35:5S:164:LYS:NZ	2.26	0.51
34:6R:386:PRO:HG2	46:EN:276:ARG:HG2	1.92	0.51
45:AA:205:ASP:OD2	45:AA:303:ALA:HA	2.10	0.51
45:AC:288:VAL:HA	45:AC:291:ILE:HG12	1.92	0.51
45:AM:292:THR:HG21	45:AM:331:SER:HB3	1.93	0.51
46:BF:133:PHE:HB2	46:BF:164:MET:HE3	1.92	0.51
46:BH:148:GLY:O	46:BH:152:ILE:HG12	2.10	0.51
45:BI:115:VAL:HG11	45:BI:152:LEU:HD23	1.93	0.51
46:BN:148:GLY:O	46:BN:152:ILE:HG12	2.11	0.51
45:CA:346:TRP:CD1	46:CB:391:ARG:HG3	2.46	0.51
45:CG:231:ILE:O	45:CG:235:ILE:HG12	2.11	0.51
46:CH:321:MET:HB2	45:CI:221:ARG:NH2	2.26	0.51
45:CK:332:ILE:O	45:CK:336:LYS:HG2	2.11	0.51
46:DD:68:LEU:HD13	46:DD:143:THR:OG1	2.11	0.51
46:DF:68:LEU:HD22	46:DF:97:ALA:HB2	1.93	0.51
45:DI:76:ASP:HA	45:DI:79:ARG:HG2	1.93	0.51
45:DI:239:THR:HG23	45:DI:243:ARG:HE	1.77	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DI:260:VAL:H	46:DJ:397:TRP:HZ2	1.58	0.51
45:DK:136:LEU:HD23	45:DK:167:LEU:HB2	1.92	0.51
45:DM:340:THR:HG23	45:DM:341:ILE:HG13	1.92	0.51
45:EC:147:SER:HB2	45:EC:190:SER:OG	2.11	0.51
45:EC:322:ASP:OD1	45:EC:373:ARG:NH1	2.42	0.51
46:EN:12:CYS:HA	46:EN:15:GLN:NE2	2.25	0.51
46:FF:116:VAL:HA	46:FF:119:VAL:HG12	1.93	0.51
45:FG:90:GLU:OE1	45:FG:121:ARG:NH2	2.44	0.51
45:FI:55:GLU:HG3	45:FI:57:GLY:H	1.76	0.51
45:FK:28:HIS:HD2	45:FK:49:PHE:HB3	1.76	0.51
45:FK:147:SER:HB2	45:FK:190:SER:OG	2.11	0.51
45:FK:286:LEU:O	45:FK:373:ARG:NH2	2.44	0.51
45:GA:205:ASP:OD1	45:GA:206:ASN:N	2.44	0.51
46:GB:67:ASP:O	46:GB:92:PHE:HA	2.10	0.51
46:GD:19:LYS:HA	46:GD:22:GLU:OE2	2.11	0.51
46:GH:6:HIS:O	46:GH:63:ALA:HA	2.11	0.51
45:GI:141:VAL:HG11	45:GI:172:TYR:CD1	2.46	0.51
46:GL:99:ASN:HA	46:GL:142:GLY:H	1.75	0.51
45:HA:352:LYS:NZ	46:HD:178:THR:HA	2.26	0.51
45:HC:3:GLU:OE2	45:HC:129:CYS:HB3	2.11	0.51
45:HC:407:TRP:CZ3	46:HD:255:VAL:HA	2.46	0.51
45:HE:265:ILE:HG22	45:HE:380:ASN:HD21	1.77	0.51
46:HF:12:CYS:O	46:HF:16:ILE:HG12	2.11	0.51
46:HF:282:ARG:NE	46:HF:288:GLU:OE1	2.31	0.51
46:HH:397:TRP:O	46:HH:400:GLY:N	2.44	0.51
45:IE:326:LYS:HE3	46:IH:218:THR:O	2.11	0.51
46:IN:156:ARG:HH22	46:IN:197:ASP:CG	2.14	0.51
46:JJ:105:HIS:CE1	46:JJ:150:LEU:HD13	2.46	0.51
46:JL:260:PHE:HB2	46:JL:263:LEU:HD13	1.93	0.51
46:JN:287:PRO:HA	46:JN:329:GLN:HE21	1.75	0.51
46:KB:262:ARG:NH1	46:KB:421:GLU:OE1	2.43	0.51
45:KC:17:GLY:HA2	45:KC:20:CYS:SG	2.51	0.51
45:KC:317:MET:SD	45:KC:377:MET:HG2	2.51	0.51
45:KG:324:VAL:HG13	45:KG:327:ASP:H	1.76	0.51
45:KK:75:ILE:O	45:KK:79:ARG:HG3	2.11	0.51
45:KM:395:PHE:HZ	45:KM:418:PHE:HB3	1.75	0.51
45:LC:75:ILE:HG21	45:LC:94:SER:HB2	1.93	0.51
45:LE:150:GLY:O	45:LE:154:LEU:HG	2.10	0.51
45:LE:230:LEU:O	45:LE:234:VAL:HG23	2.11	0.51
46:LH:294:PHE:CD2	46:LH:333:VAL:HG21	2.43	0.51
46:LJ:19:LYS:HZ1	46:LJ:227:HIS:HB2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LL:410:GLU:OE2	46:LL:414:ASN:ND2	2.44	0.51
45:LM:175:PRO:HB2	45:LM:176:GLN:OE1	2.11	0.51
45:ME:208:ALA:O	45:ME:212:ILE:HG12	2.11	0.51
45:MI:328:VAL:HG11	45:MI:353:VAL:HG21	1.92	0.51
46:MJ:22:GLU:HG2	46:MJ:81:PHE:HD2	1.76	0.51
46:NB:31:ASP:OD1	46:NB:35:THR:N	2.40	0.51
46:NB:97:ALA:HB3	46:NB:143:THR:HB	1.92	0.51
46:NB:272:PRO:HD2	46:NB:361:LEU:HD21	1.93	0.51
45:NC:414:GLU:OE2	45:NC:417:GLU:N	2.44	0.51
46:ND:383:GLU:HA	46:ND:386:THR:HG22	1.92	0.51
45:NE:81:GLY:O	45:NE:84:ARG:HG3	2.11	0.51
45:NE:141:VAL:HG12	45:NE:171:ILE:O	2.11	0.51
45:NG:183:GLU:N	45:NG:184:PRO:HD2	2.26	0.51
45:NG:414:GLU:OE1	45:NG:416:GLY:N	2.34	0.51
46:NL:190:HIS:CD2	46:NL:414:ASN:HD22	2.29	0.51
45:NM:408:TYR:HB3	45:NM:413:MET:HE3	1.92	0.51
46:NN:316:LEU:HD13	46:NN:352:SER:OG	2.11	0.51
46:OB:133:PHE:HB2	46:OB:164:MET:SD	2.51	0.51
45:OE:350:GLY:HA2	46:OH:179:VAL:HG12	1.91	0.51
45:OI:177:VAL:HG13	46:OJ:327:ASP:OD1	2.11	0.51
45:OK:89:PRO:HD2	45:PK:280:LYS:HE3	1.93	0.51
46:OL:218:THR:H	46:OL:276:ARG:NH2	2.08	0.51
45:PC:210:TYR:CE1	46:PD:324:LYS:HE3	2.46	0.51
46:PD:184:ASN:OD1	46:PD:185:ALA:N	2.44	0.51
46:PJ:203:ASP:HB3	46:PJ:205:GLU:OE2	2.11	0.51
46:PL:152:ILE:HG22	46:PL:195:ASN:ND2	2.25	0.51
46:PN:222:TYR:HA	46:PN:225:LEU:HG	1.91	0.51
45:QC:290:GLU:N	45:QC:290:GLU:OE1	2.42	0.51
45:QE:5:ILE:HD12	45:QE:125:LEU:HD21	1.93	0.51
45:QI:68:LEU:HD21	45:QI:118:CYS:HB2	1.92	0.51
45:QI:136:LEU:HD12	45:QI:169:PHE:HE2	1.76	0.51
46:QJ:62:ARG:HB2	46:QJ:123:GLU:OE2	2.11	0.51
45:QK:239:THR:HG23	45:QK:243:ARG:HE	1.76	0.51
46:QL:282:ARG:NE	46:QL:288:GLU:OE2	2.37	0.51
45:RA:268:MET:HB2	45:RA:379:SER:O	2.11	0.51
45:RA:318:MET:O	45:RA:375:VAL:HA	2.11	0.51
46:RD:52:ASN:OD1	46:RD:62:ARG:NH2	2.43	0.51
45:RE:141:VAL:HG11	45:RE:172:TYR:HA	1.93	0.51
46:RH:107:THR:OG1	46:RH:108:GLU:OE2	2.23	0.51
45:RM:68:LEU:HD13	45:RM:93:ILE:HB	1.92	0.51
46:SB:304:ASP:HB3	46:SB:307:HIS:ND1	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SD:67:ASP:OD1	46:SD:68:LEU:N	2.43	0.51
46:SF:68:LEU:HB3	46:SF:96:GLY:HA2	1.93	0.51
45:SG:278:ALA:HB2	45:SG:369:ALA:HB2	1.93	0.51
45:SK:75:ILE:HG23	45:SK:79:ARG:HH12	1.76	0.51
46:TB:254:ALA:O	46:TB:258:ILE:HG22	2.11	0.51
46:TD:148:GLY:O	46:TD:152:ILE:HD12	2.11	0.51
45:TG:28:HIS:CE1	45:TG:49:PHE:HA	2.46	0.51
45:TG:328:VAL:O	45:TG:332:ILE:HG12	2.10	0.51
45:UA:135:PHE:HB2	45:UA:166:LYS:HG2	1.92	0.51
46:UB:27:GLU:OE2	46:UB:241:ARG:NH1	2.29	0.51
45:UE:286:LEU:HD23	45:UE:291:ILE:HD11	1.92	0.51
46:UH:118:ASP:O	46:UH:122:LYS:HG2	2.11	0.51
45:UI:212:ILE:HD11	45:UI:300:ASN:HA	1.93	0.51
46:UL:370:ASN:OD1	46:UL:422:TYR:OH	2.28	0.51
46:UN:183:TYR:HA	46:UN:385:PHE:CE2	2.45	0.51
45:VA:71:GLU:CG	45:VA:98:ASP:HB2	2.41	0.51
45:VA:121:ARG:HE	45:VA:124:LYS:HZ2	1.58	0.51
45:VA:326:LYS:CE	46:VD:220:PRO:HD2	2.40	0.51
45:VC:76:ASP:OD1	45:VC:79:ARG:NH2	2.43	0.51
45:VI:133:GLN:HB3	45:VI:252:ILE:HD11	1.93	0.51
45:WA:31:GLN:HG2	45:WA:33:ASP:H	1.76	0.51
45:WC:288:VAL:HG11	45:WC:327:ASP:HB3	1.91	0.51
46:WD:285:THR:HB	46:WD:287:PRO:HD2	1.92	0.51
46:WF:105:HIS:CE1	46:WF:150:LEU:HD12	2.46	0.51
46:WJ:118:ASP:O	46:WJ:122:LYS:HG3	2.12	0.51
46:WJ:389:PHE:HZ	46:WJ:405:GLU:HG2	1.76	0.51
45:WK:10:GLY:O	45:WK:14:ILE:HG12	2.10	0.51
45:WK:71:GLU:OE2	46:WL:2:ARG:NH2	2.43	0.51
45:WM:24:PHE:O	45:WM:27:GLU:HG2	2.11	0.51
45:WM:288:VAL:HG11	45:WM:327:ASP:HB3	1.93	0.51
45:WM:390:ARG:HH21	45:WM:394:LYS:NZ	2.09	0.51
46:WN:42:LEU:HA	46:WN:45:GLU:HG3	1.93	0.51
46:WN:221:THR:HG23	46:WN:224:ASP:H	1.76	0.51
46:WN:344:TRP:CE3	46:WN:345:ILE:HG23	2.46	0.51
21:2L:760:ASP:HB3	45:BK:221:ARG:HH21	1.75	0.50
11:2S:150:GLN:HE22	45:WG:164:LYS:HG2	1.75	0.50
37:5G:49:ASP:OD1	46:OJ:219:THR:OG1	2.21	0.50
34:6R:13:PRO:HB3	46:LN:228:LEU:HD23	1.93	0.50
34:6R:318:TYR:CE2	46:CN:273:LEU:HA	2.46	0.50
34:7R:80:ARG:HH22	45:MA:38:SER:H	1.58	0.50
34:7R:477:ASN:HA	34:7R:484:PRO:HA	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:8R:177:ALA:HA	44:8R:180:TYR:CD2	2.46	0.50
45:AA:326:LYS:HD3	46:AD:220:PRO:HD2	1.93	0.50
45:AC:390:ARG:HG3	45:AC:391:LEU:HD12	1.93	0.50
46:AD:106:TYR:HE2	46:AD:403:MET:SD	2.34	0.50
46:AF:31:ASP:OD1	46:AF:35:THR:N	2.39	0.50
46:AH:12:CYS:O	46:AH:16:ILE:HG12	2.11	0.50
46:AH:165:GLU:OE2	46:AH:198:GLU:HB2	2.11	0.50
45:AI:141:VAL:HG11	45:AI:172:TYR:CD2	2.46	0.50
46:AN:238:CYS:HB2	46:AN:318:ARG:NH1	2.25	0.50
46:AN:294:PHE:HE2	46:AN:333:VAL:HG11	1.76	0.50
45:BA:326:LYS:CD	46:BD:220:PRO:HD2	2.40	0.50
45:BG:205:ASP:OD1	45:BG:303:ALA:HA	2.10	0.50
45:BG:221:ARG:NH1	46:BH:325:GLU:OE2	2.44	0.50
45:BK:98:ASP:OD1	45:BK:99:ALA:N	2.44	0.50
46:BL:148:GLY:O	46:BL:152:ILE:HG12	2.11	0.50
46:CF:86:ARG:NH2	46:DF:281:TYR:CD1	2.79	0.50
46:CF:324:LYS:HB2	45:CG:221:ARG:HH11	1.74	0.50
46:CJ:19:LYS:HE2	46:CJ:223:GLY:O	2.12	0.50
46:DF:390:ARG:HD2	46:DF:391:ARG:HG2	1.93	0.50
45:EE:183:GLU:N	45:EE:184:PRO:HD2	2.26	0.50
45:EE:239:THR:HG23	45:EE:243:ARG:HE	1.77	0.50
46:EF:372:THR:HA	46:EF:422:TYR:HE2	1.75	0.50
45:EG:248:LEU:HB2	45:EG:355:ILE:HG12	1.91	0.50
45:EM:183:GLU:N	45:EM:184:PRO:HD2	2.27	0.50
45:FC:183:GLU:N	45:FC:184:PRO:HD2	2.26	0.50
46:FH:288:GLU:O	46:FH:291:GLN:HG3	2.12	0.50
46:FJ:256:ASN:ND2	46:FJ:350:LYS:HD2	2.24	0.50
45:GA:221:ARG:NH2	46:GB:321:MET:HB3	2.26	0.50
46:GJ:16:ILE:HD13	46:GJ:226:ASN:OD1	2.11	0.50
46:GJ:310:TYR:CD1	46:GJ:371:SER:HB2	2.47	0.50
46:GN:130:LEU:O	46:GN:162:ARG:NH2	2.43	0.50
45:HA:175:PRO:HG2	45:HA:304:LYS:HD2	1.93	0.50
46:HD:186:THR:HA	46:HD:189:VAL:HG12	1.93	0.50
46:HF:45:GLU:HG3	46:HF:46:ARG:HG2	1.93	0.50
46:HF:51:TYR:HB3	46:HF:59:TYR:HB3	1.93	0.50
46:HF:229:VAL:O	46:HF:233:MET:HG2	2.11	0.50
45:IC:88:HIS:CD2	46:JD:281:TYR:HB3	2.45	0.50
45:IG:280:LYS:HE3	45:IG:283:HIS:HD1	1.77	0.50
45:II:89:PRO:HD3	46:JJ:281:TYR:HD1	1.76	0.50
45:IM:141:VAL:HG11	45:IM:172:TYR:HD1	1.75	0.50
45:IM:208:ALA:O	45:IM:212:ILE:HG12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IN:178:THR:HG22	46:IN:180:VAL:H	1.76	0.50
46:JB:404:ASP:N	46:JB:407:GLU:OE1	2.36	0.50
46:JF:175:VAL:HG22	46:JF:205:GLU:HB2	1.93	0.50
46:JH:10:GLY:O	46:JH:14:ASN:ND2	2.43	0.50
46:JH:344:TRP:HB3	46:JH:430:ALA:HB2	1.93	0.50
45:JI:356:ASN:OD1	45:JI:357:TYR:N	2.44	0.50
46:JL:19:LYS:NZ	46:JL:227:HIS:HB2	2.25	0.50
46:KD:294:PHE:CD1	46:KD:333:VAL:HG21	2.46	0.50
45:LE:223:THR:HG22	45:LE:224:TYR:H	1.76	0.50
46:LF:67:ASP:O	46:LF:92:PHE:HA	2.10	0.50
46:LF:95:THR:HG21	46:LF:108:GLU:HG2	1.93	0.50
46:LJ:293:MET:SD	46:LJ:367:PHE:HB2	2.51	0.50
45:LM:222:PRO:HD2	46:LN:324:LYS:HD3	1.93	0.50
45:MA:244:PHE:HB2	45:MA:356:ASN:HD21	1.76	0.50
46:MB:309:ARG:HH21	46:MB:342:VAL:HA	1.75	0.50
45:NA:152:LEU:O	45:NA:155:GLU:HG3	2.11	0.50
46:ND:403:MET:HB2	46:ND:407:GLU:OE2	2.12	0.50
45:NG:97:GLU:OE1	46:NH:251:ARG:NH2	2.40	0.50
45:NK:136:LEU:HD23	45:NK:167:LEU:HB2	1.92	0.50
46:NL:294:PHE:CD1	46:NL:333:VAL:HG11	2.47	0.50
45:OA:318:MET:O	45:OA:375:VAL:HA	2.11	0.50
45:OC:153:LEU:O	45:OC:157:LEU:HD23	2.12	0.50
45:OE:231:ILE:O	45:OE:235:ILE:HG12	2.11	0.50
46:OF:128:ASP:OD1	46:OF:129:CYS:N	2.42	0.50
45:OI:298:PRO:HA	45:OI:301:MET:HE1	1.92	0.50
45:OI:350:GLY:HA2	46:OL:179:VAL:HG23	1.93	0.50
46:ON:6:HIS:HD2	46:ON:134:GLN:NE2	2.04	0.50
46:PN:192:LEU:HD12	46:PN:196:ALA:HB2	1.93	0.50
45:QA:109:THR:HG22	45:QA:110:ILE:HG23	1.92	0.50
45:QC:187:SER:O	45:QC:191:THR:HG23	2.11	0.50
45:QC:265:ILE:HG12	45:QC:432:TYR:HE1	1.76	0.50
46:QF:289:LEU:HD13	46:QF:365:VAL:HG23	1.94	0.50
46:QL:2:ARG:NH2	45:QM:70:LEU:O	2.44	0.50
46:QL:28:HIS:ND1	46:QL:43:GLN:OE1	2.43	0.50
45:RA:108:TYR:HA	45:RA:112:LYS:HE3	1.93	0.50
46:RF:214:THR:O	46:RF:216:LYS:NZ	2.43	0.50
45:RK:329:ASN:ND2	46:RL:175:VAL:HG23	2.25	0.50
45:SC:248:LEU:HB2	45:SC:355:ILE:HG22	1.92	0.50
46:SH:221:THR:HG23	46:SH:224:ASP:H	1.76	0.50
45:SK:69:ASP:OD1	45:SK:70:LEU:N	2.45	0.50
46:SL:293:MET:CE	46:SL:367:PHE:HB3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TA:206:ASN:OD1	47:TA:501:GTP:N2	2.41	0.50
46:TB:86:ARG:HA	46:UB:281:TYR:HE1	1.75	0.50
45:TC:183:GLU:N	45:TC:184:PRO:HD2	2.26	0.50
45:TC:244:PHE:HB2	45:TC:356:ASN:HD21	1.76	0.50
45:TK:181:VAL:HG23	45:TK:182:VAL:HG13	1.93	0.50
46:TN:178:THR:HB	46:TN:181:GLU:HG3	1.93	0.50
46:UB:335:ASN:OD1	46:UB:336:LYS:N	2.44	0.50
46:UD:10:GLY:O	46:UD:14:ASN:ND2	2.43	0.50
45:UI:74:VAL:O	45:UI:77:GLU:HG3	2.11	0.50
46:UJ:67:ASP:OD1	46:UJ:68:LEU:N	2.42	0.50
46:UN:174:LYS:HB3	46:UN:205:GLU:OE2	2.11	0.50
46:VB:290:THR:HA	46:VB:293:MET:HG2	1.93	0.50
46:VD:45:GLU:HG3	46:VD:46:ARG:HG2	1.92	0.50
45:VE:292:THR:HG21	45:VE:331:SER:HB3	1.91	0.50
45:VI:200:VAL:HG13	45:VI:268:MET:SD	2.51	0.50
45:VI:215:ARG:NH2	45:VI:299:ALA:O	2.44	0.50
46:VJ:128:ASP:OD1	46:VJ:129:CYS:N	2.44	0.50
45:VK:353:VAL:HG12	46:VN:177:ASP:HB2	1.93	0.50
45:WC:100:ALA:O	46:WD:255:VAL:HG21	2.10	0.50
46:WD:256:ASN:ND2	46:WD:350:LYS:HE3	2.26	0.50
46:WH:273:LEU:H	46:WH:292:GLN:NE2	2.08	0.50
46:WH:344:TRP:CE3	46:WH:345:ILE:HG23	2.47	0.50
8:OH:358:GLU:HG3	45:HM:370:LYS:HE2	1.93	0.50
19:1J:290:THR:HG21	46:IL:320:ARG:HE	1.75	0.50
20:1K:15:ASN:ND2	45:NC:359:PRO:HD3	2.25	0.50
10:1Q:6:PHE:HD1	45:WC:117:LEU:HD23	1.77	0.50
31:3I:220:LYS:HZ1	46:GL:336:LYS:HD3	1.76	0.50
37:5F:46:LEU:HA	37:5F:48:ARG:HH12	1.77	0.50
37:5G:108:LYS:O	37:5G:110:ARG:NH1	2.44	0.50
40:6G:181:GLY:O	40:6G:183:GLY:N	2.44	0.50
10:6Q:81:LYS:HD2	10:6Q:161:ARG:HD2	1.94	0.50
45:AC:183:GLU:N	45:AC:184:PRO:HD2	2.26	0.50
46:AD:238:CYS:SG	46:AD:239:CYS:N	2.84	0.50
45:AE:396:ASP:HB3	45:AE:422:ARG:HH12	1.76	0.50
46:AF:248:SER:HA	46:AF:252:LYS:HD2	1.93	0.50
45:AG:69:ASP:OD1	45:AG:70:LEU:N	2.44	0.50
45:AM:180:ALA:HA	46:AN:350:LYS:HE2	1.93	0.50
46:BD:67:ASP:HB3	46:BD:73:MET:HE1	1.93	0.50
46:BD:390:ARG:O	46:BD:392:LYS:NZ	2.45	0.50
45:BK:3:GLU:OE2	45:BK:131:GLY:N	2.44	0.50
45:CG:17:GLY:HA2	45:CG:20:CYS:SG	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CG:205:ASP:OD2	45:CG:303:ALA:HA	2.11	0.50
45:CG:208:ALA:O	45:CG:212:ILE:HG12	2.10	0.50
46:CH:7:ILE:HG23	46:CH:135:ILE:HD13	1.93	0.50
45:CI:205:ASP:OD1	45:CI:303:ALA:HA	2.11	0.50
45:CM:175:PRO:HG3	45:CM:390:ARG:NH1	2.26	0.50
46:CN:318:ARG:HD3	46:CN:358:PRO:HD3	1.93	0.50
45:DE:183:GLU:N	45:DE:184:PRO:HD2	2.26	0.50
46:DF:73:MET:SD	46:DF:73:MET:N	2.84	0.50
46:DF:200:MET:HG2	46:DF:266:PHE:HB2	1.92	0.50
45:DG:18:ASN:HD22	45:DG:18:ASN:H	1.57	0.50
46:DJ:31:ASP:OD1	46:DJ:35:THR:N	2.42	0.50
46:DJ:175:VAL:O	46:DJ:175:VAL:HG13	2.11	0.50
46:DJ:286:VAL:HB	46:DJ:325:GLU:OE1	2.12	0.50
46:DL:8:GLN:OE1	46:DL:17:GLY:HA3	2.11	0.50
45:DM:68:LEU:HD21	45:DM:118:CYS:SG	2.51	0.50
45:DM:89:PRO:HG2	45:EM:280:LYS:HB3	1.93	0.50
45:EC:296:PHE:CE2	45:EC:335:ILE:HG13	2.45	0.50
45:EG:224:TYR:HA	45:EG:227:LEU:HD13	1.93	0.50
45:EI:209:ILE:HD12	45:EI:227:LEU:HB3	1.93	0.50
46:EJ:19:LYS:O	46:EJ:22:GLU:HG3	2.10	0.50
45:EK:384:ILE:O	45:EK:387:VAL:HG22	2.11	0.50
45:FE:19:ALA:HA	45:FE:22:GLU:OE1	2.12	0.50
45:FE:288:VAL:HG11	45:FE:327:ASP:HB3	1.93	0.50
46:FH:117:LEU:HG	46:FH:121:ARG:HH12	1.76	0.50
45:FK:208:ALA:O	45:FK:212:ILE:HG12	2.11	0.50
46:FL:202:ILE:HD11	46:FL:268:ILE:HD11	1.92	0.50
45:GA:419:SER:O	45:GA:422:ARG:HD3	2.10	0.50
46:HB:257:LEU:HD21	46:HB:368:VAL:HG23	1.92	0.50
46:HD:16:ILE:HD13	46:HD:226:ASN:OD1	2.10	0.50
46:HH:190:HIS:CD2	46:HH:411:ALA:HA	2.47	0.50
45:HM:141:VAL:HG11	45:HM:172:TYR:CD1	2.46	0.50
45:IA:408:TYR:O	45:IA:413:MET:HB3	2.11	0.50
45:JC:224:TYR:HD1	45:JC:227:LEU:HD12	1.76	0.50
45:JE:101:ASN:OD1	46:JF:252:LYS:NZ	2.41	0.50
45:JE:259:LEU:HD21	45:JE:316:SER:HB3	1.94	0.50
46:JF:19:LYS:NZ	46:JF:223:GLY:O	2.44	0.50
46:JJ:224:ASP:OD1	46:JJ:225:LEU:N	2.44	0.50
45:JM:174:SER:HB2	45:JM:177:VAL:O	2.11	0.50
45:JM:184:PRO:O	45:JM:188:ILE:HG12	2.11	0.50
45:KA:338:LYS:NZ	45:KA:339:ARG:HG3	2.26	0.50
46:KD:116:VAL:HA	46:KD:119:VAL:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KL:289:LEU:HD13	46:KL:365:VAL:HG23	1.94	0.50
45:LG:245:ASP:OD1	45:LG:245:ASP:N	2.43	0.50
45:LG:290:GLU:N	45:LG:290:GLU:OE1	2.45	0.50
46:LH:190:HIS:CD2	46:LH:411:ALA:HA	2.46	0.50
45:LK:434:GLU:O	45:LK:437:ILE:HG12	2.11	0.50
45:MA:224:TYR:HE2	46:MB:246:LEU:HD11	1.76	0.50
46:MB:326:VAL:O	46:MB:330:MET:HG2	2.11	0.50
45:MC:210:TYR:HB3	46:MD:324:LYS:NZ	2.25	0.50
45:MI:210:TYR:CE1	45:MI:227:LEU:HD21	2.47	0.50
46:MJ:190:HIS:CD2	46:MJ:414:ASN:HD22	2.29	0.50
46:MJ:285:THR:OG1	46:MJ:288:GLU:OE1	2.29	0.50
45:MM:311:LYS:HD2	45:MM:342:GLN:HG3	1.92	0.50
45:NC:71:GLU:HG2	45:NC:73:THR:H	1.76	0.50
45:NE:254:GLU:OE2	46:NH:99:ASN:ND2	2.44	0.50
45:NG:259:LEU:O	45:NG:380:ASN:ND2	2.44	0.50
45:NG:332:ILE:HD12	45:NG:351:PHE:CE2	2.47	0.50
45:NK:116:ASP:N	45:NK:116:ASP:OD2	2.43	0.50
45:OA:202:VAL:HA	45:OA:268:MET:O	2.11	0.50
45:OC:152:LEU:O	45:OC:155:GLU:HG3	2.11	0.50
45:OC:427:ALA:HA	45:OC:430:LYS:NZ	2.26	0.50
46:OD:52:ASN:OD1	46:OD:62:ARG:NH2	2.44	0.50
46:OF:304:ASP:HB3	46:OF:307:HIS:ND1	2.25	0.50
45:OI:119:LEU:HA	45:OI:122:ILE:HG22	1.93	0.50
46:PB:316:LEU:HG	46:PB:352:SER:HB2	1.93	0.50
45:PE:398:MET:HE3	46:PF:346:PRO:HD2	1.94	0.50
46:PF:132:GLY:HA3	46:PF:163:ILE:HG22	1.92	0.50
46:PF:153:SER:HB3	46:PF:154:LYS:HZ2	1.76	0.50
45:PK:141:VAL:HG11	45:PK:172:TYR:CD1	2.45	0.50
45:PK:346:TRP:CD1	46:PN:391:ARG:HG3	2.46	0.50
45:QA:319:TYR:CD2	45:QA:323:VAL:HG21	2.47	0.50
45:QE:269:LEU:HD22	45:QE:384:ILE:HD11	1.93	0.50
45:QG:28:HIS:NE2	45:QG:48:ALA:O	2.44	0.50
46:QJ:203:ASP:OD2	46:QJ:205:GLU:HG3	2.11	0.50
45:RA:322:ASP:OD1	45:RA:373:ARG:NH1	2.42	0.50
46:RB:135:ILE:HD11	46:RB:152:ILE:HD11	1.93	0.50
46:RB:167:PHE:HE2	46:RB:200:MET:HE2	1.76	0.50
46:RB:222:TYR:HA	46:RB:225:LEU:HD12	1.94	0.50
45:RC:334:THR:HA	45:RC:337:THR:HG22	1.93	0.50
46:RD:334:GLN:HA	46:RD:341:PHE:CE1	2.46	0.50
45:RE:174:SER:HB2	45:RE:177:VAL:O	2.10	0.50
45:RE:332:ILE:HA	45:RE:335:ILE:HG12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:68:LEU:HG	46:RJ:112:LEU:HD13	1.94	0.50
46:RJ:114:ASP:OD1	46:RJ:115:SER:N	2.43	0.50
45:RM:174:SER:HB2	45:RM:177:VAL:HB	1.93	0.50
46:RN:31:ASP:OD2	46:RN:37:HIS:ND1	2.44	0.50
46:RN:289:LEU:HD13	46:RN:365:VAL:HG23	1.92	0.50
45:SC:326:LYS:HE2	46:SD:220:PRO:HD2	1.94	0.50
45:SI:242:LEU:HD21	45:SI:251:ASP:HA	1.94	0.50
45:SK:81:GLY:C	45:SK:84:ARG:HD3	2.31	0.50
45:TA:88:HIS:HB3	45:TA:91:GLN:HG2	1.92	0.50
46:TB:210:ILE:O	46:TB:214:THR:OG1	2.14	0.50
45:TE:328:VAL:HG11	45:TE:353:VAL:HG21	1.93	0.50
46:TJ:276:ARG:NH2	46:TJ:277:GLY:HA2	2.26	0.50
46:TL:238:CYS:HA	46:TL:241:ARG:CZ	2.42	0.50
45:UG:263:PRO:HB2	45:UG:264:ARG:HH22	1.76	0.50
45:UG:326:LYS:HE2	46:UH:220:PRO:HB2	1.93	0.50
45:UK:260:VAL:HB	46:UL:397:TRP:CZ2	2.41	0.50
45:UM:32:PRO:HB3	45:UM:83:TYR:CE1	2.47	0.50
46:UN:309:ARG:NH2	46:UN:426:GLN:O	2.37	0.50
45:VA:98:ASP:CG	45:VA:100:ALA:H	2.14	0.50
45:VA:356:ASN:OD1	45:VA:357:TYR:N	2.44	0.50
46:VB:3:GLU:HB2	46:VB:62:ARG:NH2	2.26	0.50
46:VH:313:ALA:HB1	46:VH:367:PHE:HE1	1.76	0.50
46:VN:257:LEU:O	46:VN:370:ASN:ND2	2.43	0.50
45:WA:114:ILE:HA	45:WA:117:LEU:HD13	1.93	0.50
46:WF:344:TRP:HB3	46:WF:430:ALA:HB2	1.92	0.50
45:WG:118:CYS:O	45:WG:122:ILE:HG12	2.12	0.50
45:WG:244:PHE:HB2	45:WG:356:ASN:HD21	1.76	0.50
46:WL:130:LEU:HD21	46:WL:133:PHE:CE1	2.46	0.50
45:WM:175:PRO:HG2	45:WM:304:LYS:HG2	1.92	0.50
46:WN:375:GLN:C	46:WN:379:LYS:HZ2	2.14	0.50
45:DC:311:LYS:NZ	45:DC:344:VAL:HA	2.26	0.50
4:1D:95:GLN:NE2	45:EG:364:PRO:HB2	2.25	0.50
7:1G:175:THR:HB	46:LD:212:PHE:CD2	2.45	0.50
21:1L:488:LYS:HE3	46:BH:32:PRO:HB2	1.93	0.50
21:1L:901:LYS:HG2	46:CB:320:ARG:NH1	2.27	0.50
15:1X:18:ILE:HD12	46:MH:22:GLU:OE1	2.11	0.50
31:3I:204:TYR:OH	45:FK:160:ASP:OD2	2.26	0.50
36:5C:142:GLN:O	36:5C:146:VAL:HG12	2.10	0.50
39:6F:76:PRO:O	39:6F:80:ASN:ND2	2.43	0.50
39:6F:85:THR:OG1	46:JF:355:ASP:OD2	2.29	0.50
41:6H:258:THR:HG21	46:FF:245:GLN:NE2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6R:50:ASP:HB3	34:6R:52:TYR:HD2	1.75	0.50
34:7R:112:ARG:HG3	34:7R:113:ILE:N	2.25	0.50
45:AC:326:LYS:NZ	45:AC:327:ASP:OD1	2.33	0.50
45:AE:188:ILE:HD12	45:AE:425:LEU:HD11	1.93	0.50
46:AF:173:PRO:HG2	46:AF:380:ARG:HE	1.76	0.50
46:AF:201:VAL:HG23	46:AF:301:CYS:SG	2.52	0.50
45:AG:205:ASP:OD1	45:AG:303:ALA:HA	2.11	0.50
46:AJ:229:VAL:HG12	46:AJ:233:MET:HE2	1.93	0.50
45:AK:18:ASN:OD1	45:AK:19:ALA:N	2.43	0.50
46:AL:273:LEU:H	46:AL:292:GLN:HE22	1.58	0.50
45:BA:80:THR:O	45:BA:84:ARG:NH2	2.32	0.50
46:BF:86:ARG:HH21	46:BF:87:PRO:HG2	1.75	0.50
46:BH:257:LEU:HD21	46:BH:314:SER:OG	2.11	0.50
46:CB:309:ARG:NH2	46:CB:426:GLN:O	2.37	0.50
45:CC:90:GLU:OE2	45:CC:121:ARG:NH1	2.44	0.50
46:CD:324:LYS:HD3	45:CE:222:PRO:O	2.12	0.50
46:CF:165:GLU:HG2	46:CF:250:LEU:HD21	1.92	0.50
45:CI:69:ASP:O	45:CI:94:SER:HA	2.11	0.50
45:DA:141:VAL:HG11	45:DA:172:TYR:HD1	1.76	0.50
45:DI:183:GLU:N	45:DI:184:PRO:HD2	2.27	0.50
45:DI:231:ILE:O	45:DI:235:ILE:HG12	2.12	0.50
45:DI:274:PRO:HD3	45:DI:291:ILE:HD11	1.93	0.50
46:DJ:257:LEU:HA	46:DJ:312:THR:HG21	1.94	0.50
45:DK:252:ILE:HA	45:DK:255:PHE:CE2	2.46	0.50
46:EB:313:ALA:HB1	46:EB:367:PHE:CZ	2.46	0.50
45:EC:208:ALA:O	45:EC:212:ILE:HG12	2.11	0.50
45:EC:265:ILE:HG12	45:EC:432:TYR:HE1	1.76	0.50
46:ED:222:TYR:HA	46:ED:225:LEU:HD12	1.93	0.50
46:EF:268:ILE:HG13	46:EF:300:MET:SD	2.51	0.50
45:EG:208:ALA:O	45:EG:212:ILE:HG12	2.11	0.50
46:EL:19:LYS:HG3	46:EL:226:ASN:CB	2.41	0.50
45:EM:269:LEU:HB3	45:EM:301:MET:CE	2.41	0.50
46:FD:190:HIS:ND1	46:FD:411:ALA:HA	2.27	0.50
45:FG:171:ILE:HG13	45:FG:204:LEU:HB2	1.94	0.50
45:FI:288:VAL:HG11	45:FI:327:ASP:HB3	1.93	0.50
46:FJ:150:LEU:HD21	46:FJ:154:LYS:NZ	2.26	0.50
45:GC:254:GLU:OE1	46:GF:98:GLY:HA2	2.12	0.50
45:GE:174:SER:HB2	45:GE:177:VAL:O	2.11	0.50
46:GF:167:PHE:CZ	46:GF:233:MET:HG2	2.47	0.50
45:GG:221:ARG:NH2	46:GH:321:MET:HA	2.25	0.50
46:GJ:268:ILE:HG22	46:GJ:368:VAL:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HD:180:VAL:HG13	46:HD:183:TYR:HD1	1.77	0.50
45:HG:88:HIS:HB3	45:HG:91:GLN:HG2	1.93	0.50
45:HK:141:VAL:HG11	45:HK:172:TYR:HD1	1.76	0.50
46:HN:286:VAL:C	46:HN:329:GLN:HE22	2.15	0.50
45:IA:101:ASN:HA	45:IA:144:GLY:H	1.76	0.50
46:IH:103:LYS:HG2	46:IH:108:GLU:HG2	1.93	0.50
46:IL:16:ILE:HD13	46:IL:226:ASN:OD1	2.11	0.50
45:JA:338:LYS:HZ2	45:JA:340:THR:H	1.59	0.50
45:JC:180:ALA:HB3	45:JC:183:GLU:HB2	1.92	0.50
45:JE:108:TYR:O	45:JE:112:LYS:NZ	2.42	0.50
45:JE:274:PRO:HD3	45:JE:291:ILE:HD11	1.93	0.50
45:JK:319:TYR:CD2	45:JK:323:VAL:HG11	2.46	0.50
46:JN:293:MET:HE2	46:JN:367:PHE:HB2	1.93	0.50
45:KC:227:LEU:O	45:KC:231:ILE:HG12	2.11	0.50
45:KE:258:ASN:OD1	45:KE:352:LYS:NZ	2.41	0.50
46:KF:253:LEU:O	46:KF:257:LEU:HD23	2.11	0.50
45:KK:116:ASP:OD1	45:KK:117:LEU:N	2.44	0.50
46:KL:73:MET:SD	46:KL:92:PHE:HB3	2.51	0.50
45:LE:174:SER:HB3	45:LE:177:VAL:O	2.10	0.50
46:LF:377:MET:SD	46:LF:380:ARG:NH2	2.79	0.50
45:LI:140:SER:OG	47:LI:501:GTP:O2B	2.26	0.50
46:LJ:67:ASP:OD1	46:LJ:68:LEU:N	2.43	0.50
46:LJ:175:VAL:HG13	46:LJ:205:GLU:OE2	2.11	0.50
46:LL:190:HIS:CE1	46:LL:414:ASN:HD22	2.30	0.50
46:LL:380:ARG:O	46:LL:383:GLU:HG3	2.10	0.50
46:MB:334:GLN:HA	46:MB:341:PHE:CE2	2.47	0.50
46:NB:295:ASP:OD1	46:NB:297:LYS:HG2	2.12	0.50
45:NC:358:GLN:OE1	45:NC:359:PRO:HD2	2.11	0.50
45:NI:183:GLU:N	45:NI:184:PRO:HD2	2.26	0.50
45:NK:265:ILE:HG22	45:NK:380:ASN:HD21	1.77	0.50
46:NN:342:VAL:HG22	46:NN:344:TRP:HD1	1.76	0.50
46:OD:167:PHE:CE1	46:OD:233:MET:HG2	2.46	0.50
46:OF:232:ALA:HB1	46:OF:268:ILE:HD12	1.92	0.50
46:OH:217:LEU:HD23	46:OH:219:THR:H	1.77	0.50
46:OJ:318:ARG:HH11	46:OJ:358:PRO:HG3	1.76	0.50
45:OM:192:HIS:CD2	45:OM:421:ALA:HA	2.46	0.50
46:ON:313:ALA:HB1	46:ON:367:PHE:HE1	1.75	0.50
45:PC:352:LYS:HZ3	46:PF:178:THR:HA	1.77	0.50
45:PC:386:GLU:OE2	45:PC:386:GLU:N	2.43	0.50
46:PD:92:PHE:HD1	46:PD:94:GLN:HE22	1.58	0.50
46:PD:238:CYS:SG	46:PD:239:CYS:N	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PD:342:VAL:HG13	46:PD:345:ILE:HG22	1.92	0.50
46:PF:256:ASN:HD22	46:PF:350:LYS:HE3	1.75	0.50
46:PN:327:ASP:OD1	46:PN:328:GLU:N	2.45	0.50
46:QD:178:THR:HB	46:QD:181:GLU:HG3	1.93	0.50
46:QF:214:THR:HG23	46:QF:215:LEU:HD22	1.93	0.50
45:QG:346:TRP:CD1	46:QH:391:ARG:HG3	2.46	0.50
45:QI:107:HIS:ND1	45:QI:107:HIS:O	2.45	0.50
45:QI:220:GLU:HG2	45:QI:221:ARG:HG2	1.92	0.50
45:QK:174:SER:HB3	45:QK:177:VAL:O	2.12	0.50
46:QL:9:GLY:HA2	46:QL:66:MET:O	2.11	0.50
46:QL:344:TRP:NE1	45:QM:397:LEU:O	2.44	0.50
45:QM:147:SER:HB2	45:QM:190:SER:OG	2.12	0.50
45:RA:226:ASN:HA	45:RA:229:ARG:NE	2.25	0.50
45:RE:326:LYS:HE2	46:RF:208:TYR:CD1	2.46	0.50
46:RF:221:THR:HG23	46:RF:224:ASP:H	1.76	0.50
45:RG:255:PHE:O	45:RG:259:LEU:HB2	2.11	0.50
45:RG:332:ILE:HA	45:RG:335:ILE:HD12	1.94	0.50
46:RH:178:THR:HB	46:RH:181:GLU:HG3	1.93	0.50
46:RJ:36:TYR:CZ	46:RJ:44:LEU:HD11	2.47	0.50
46:RJ:279:GLN:OE1	46:RJ:279:GLN:N	2.38	0.50
46:RL:178:THR:N	46:RL:181:GLU:OE2	2.45	0.50
46:SD:347:ASN:O	45:SE:181:VAL:HG12	2.11	0.50
45:SE:274:PRO:HG3	45:SE:286:LEU:HD23	1.93	0.50
46:SF:105:HIS:CE1	46:SF:150:LEU:HD12	2.46	0.50
46:SF:173:PRO:HG2	46:SF:380:ARG:HD3	1.94	0.50
45:SG:205:ASP:OD1	45:SG:303:ALA:HA	2.11	0.50
46:TD:267:MET:HG3	46:TD:299:MET:HE2	1.93	0.50
46:TF:1:MET:HA	45:TG:96:LYS:NZ	2.26	0.50
46:TJ:167:PHE:CZ	46:TJ:233:MET:HG2	2.46	0.50
46:TN:91:VAL:HG21	46:TN:116:VAL:HB	1.94	0.50
46:UB:254:ALA:O	46:UB:258:ILE:HG22	2.11	0.50
46:UD:164:MET:N	46:UD:197:ASP:OD2	2.44	0.50
46:UF:237:THR:HG23	46:UF:241:ARG:HE	1.76	0.50
45:UK:5:ILE:HD11	45:UK:135:PHE:CE1	2.47	0.50
46:VD:68:LEU:HD23	46:VD:143:THR:HB	1.92	0.50
45:VE:109:THR:O	45:VE:112:LYS:NZ	2.45	0.50
45:VG:121:ARG:NH1	45:VG:124:LYS:HD2	2.26	0.50
45:WA:370:LYS:HZ3	45:WA:371:VAL:N	2.10	0.50
45:WC:74:VAL:O	45:WC:77:GLU:HG3	2.11	0.50
46:WF:31:ASP:OD1	46:WF:35:THR:N	2.38	0.50
45:WK:210:TYR:HE1	45:WK:227:LEU:HD11	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WM:210:TYR:CE1	45:WM:227:LEU:HD11	2.45	0.50
3:1C:48:ARG:HH22	45:EM:221:ARG:HH11	1.58	0.50
7:1G:155:PRO:HB2	45:KA:29:GLY:HA2	1.94	0.50
14:1V:122:LYS:HD3	46:LL:390:ARG:HD2	1.92	0.50
34:4R:508:ALA:HB3	34:4R:513:HIS:CE1	2.46	0.50
35:4S:112:THR:HA	35:4S:117:LYS:HE2	1.92	0.50
35:4S:195:ASN:OD1	35:4S:196:LYS:N	2.45	0.50
15:4X:10:ARG:HD2	15:4X:11:GLU:O	2.10	0.50
36:5A:102:TYR:HA	45:KA:393:HIS:NE2	2.26	0.50
36:5B:131:ARG:HG3	36:5B:132:SER:N	2.26	0.50
36:5C:90:GLN:HE22	36:5C:98:LEU:H	1.58	0.50
37:5G:72:ASP:O	37:5G:104:MET:N	2.44	0.50
40:6G:265:LEU:HB3	45:VA:339:ARG:NH1	2.27	0.50
45:AA:254:GLU:OE1	46:AD:99:ASN:ND2	2.45	0.50
45:AE:346:TRP:CD1	46:AH:391:ARG:HG3	2.47	0.50
45:AG:260:VAL:HG13	45:AG:265:ILE:O	2.11	0.50
45:AG:371:VAL:HG12	45:AG:373:ARG:H	1.76	0.50
46:AL:39:ASP:OD2	46:AL:40:SER:N	2.44	0.50
46:AL:91:VAL:HG21	46:AL:116:VAL:HB	1.91	0.50
45:AM:195:LEU:HD21	45:AM:264:ARG:HD2	1.92	0.50
45:BA:79:ARG:NH2	45:BA:89:PRO:O	2.45	0.50
46:BB:54:ALA:HB3	46:BB:58:ARG:HG2	1.94	0.50
45:BG:239:THR:HG23	45:BG:243:ARG:HH21	1.76	0.50
46:BH:187:LEU:HD11	46:BH:408:PHE:HE2	1.77	0.50
45:BK:205:ASP:OD1	45:BK:303:ALA:HA	2.11	0.50
46:BN:342:VAL:HG13	46:BN:345:ILE:HG22	1.93	0.50
45:CA:297:GLU:OE2	45:CA:300:ASN:ND2	2.44	0.50
45:CC:89:PRO:HD2	45:DC:280:LYS:NZ	2.26	0.50
46:CD:175:VAL:HG22	46:CD:205:GLU:HB3	1.93	0.50
45:CI:136:LEU:HD23	45:CI:167:LEU:HB2	1.92	0.50
45:DA:183:GLU:N	45:DA:184:PRO:HD2	2.26	0.50
46:DB:317:PHE:HD1	46:DB:365:VAL:HG22	1.76	0.50
45:DE:231:ILE:O	45:DE:235:ILE:HG12	2.12	0.50
45:DI:17:GLY:HA2	45:DI:20:CYS:SG	2.52	0.50
45:EC:115:VAL:HG21	45:EC:156:ARG:HE	1.76	0.50
45:EC:171:ILE:O	45:EC:171:ILE:HG13	2.10	0.50
45:EC:287:SER:O	45:EC:291:ILE:HG23	2.11	0.50
46:ED:319:GLY:HA2	46:ED:357:PRO:HD3	1.94	0.50
45:EE:133:GLN:HB3	45:EE:252:ILE:HD11	1.92	0.50
46:EH:213:ARG:HE	46:EH:297:LYS:NZ	2.09	0.50
46:EL:138:SER:HA	46:EL:169:VAL:HB	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EL:358:PRO:HB2	46:EL:361:LEU:HB2	1.91	0.50
46:FB:55:THR:HG23	46:GB:283:ALA:HA	1.93	0.50
46:FB:241:ARG:NH1	46:FB:242:PHE:HD2	2.09	0.50
46:FF:3:GLU:OE1	46:FF:3:GLU:N	2.36	0.50
46:FF:105:HIS:CE1	46:FF:150:LEU:HD12	2.45	0.50
46:FJ:21:TRP:HA	46:FJ:24:ILE:HG22	1.92	0.50
45:GA:127:ASP:N	45:GA:127:ASP:OD1	2.43	0.50
46:GB:282:ARG:HH21	46:GB:288:GLU:CD	2.15	0.50
45:GM:292:THR:HG21	45:GM:331:SER:HB3	1.93	0.50
46:GN:117:LEU:HA	46:GN:120:VAL:HG22	1.94	0.50
45:HA:175:PRO:HG3	45:HA:390:ARG:HH21	1.77	0.50
45:HA:245:ASP:O	45:HA:356:ASN:ND2	2.45	0.50
45:HI:258:ASN:OD1	45:HI:352:LYS:NZ	2.41	0.50
45:HK:332:ILE:HD12	45:HK:351:PHE:CD1	2.46	0.50
46:HL:226:ASN:HA	46:HL:229:VAL:HG12	1.94	0.50
45:IA:205:ASP:OD1	45:IA:206:ASN:N	2.42	0.50
45:IA:268:MET:HB2	45:IA:379:SER:O	2.10	0.50
45:IE:107:HIS:ND1	45:IE:107:HIS:O	2.44	0.50
45:IM:340:THR:HG23	45:IM:341:ILE:HG13	1.93	0.50
45:JA:26:LEU:HD11	45:JA:364:PRO:HD2	1.93	0.50
45:JA:68:LEU:HD11	45:JA:118:CYS:SG	2.51	0.50
45:JG:231:ILE:O	45:JG:235:ILE:HG12	2.12	0.50
46:JH:313:ALA:HB1	46:JH:367:PHE:HE1	1.76	0.50
46:JJ:182:PRO:HD2	46:JJ:388:MET:HE1	1.94	0.50
46:KB:201:VAL:HG22	46:KB:266:PHE:O	2.11	0.50
45:KC:244:PHE:HB2	45:KC:356:ASN:HD21	1.76	0.50
45:KG:326:LYS:HZ3	46:KJ:208:TYR:HB3	1.76	0.50
46:LB:139:LEU:HD12	46:LB:170:VAL:HG12	1.94	0.50
45:LE:387:VAL:HG12	45:LE:390:ARG:HH21	1.76	0.50
46:LF:139:LEU:HD22	46:LF:188:SER:HB2	1.93	0.50
45:LG:141:VAL:HG21	45:LG:172:TYR:CE2	2.47	0.50
45:LG:221:ARG:NH1	46:LH:322:SER:OG	2.45	0.50
45:LI:217:LEU:HB3	45:LI:219:ILE:HG13	1.94	0.50
45:LI:407:TRP:CH2	46:LJ:258:ILE:HG13	2.46	0.50
46:LL:190:HIS:HE1	46:LL:414:ASN:HD22	1.59	0.50
45:LM:88:HIS:CE1	45:LM:90:GLU:HG2	2.46	0.50
45:MC:195:LEU:HD21	45:MC:264:ARG:HD2	1.94	0.50
45:MC:210:TYR:HE1	45:MC:227:LEU:HD21	1.77	0.50
46:MF:334:GLN:HE22	46:MF:348:ASN:H	1.57	0.50
45:MG:55:GLU:OE2	45:MG:61:HIS:NE2	2.45	0.50
45:MG:155:GLU:HA	45:MG:197:HIS:CE1	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MJ:318:ARG:HH11	46:MJ:318:ARG:HG2	1.76	0.50
45:MK:7:ILE:HB	45:MK:137:VAL:HG12	1.93	0.50
45:NC:202:VAL:HG23	45:NC:204:LEU:HD23	1.94	0.50
46:NL:134:GLN:HB2	46:NL:165:GLU:OE2	2.10	0.50
46:NN:105:HIS:CD2	46:NN:150:LEU:HB2	2.46	0.50
45:OE:348:PRO:HG3	46:OH:384:GLN:HG3	1.92	0.50
46:OF:248:SER:HA	46:OF:252:LYS:HD2	1.92	0.50
46:OH:238:CYS:SG	46:OH:239:CYS:N	2.84	0.50
46:PB:289:LEU:HD13	46:PB:365:VAL:HG23	1.93	0.50
46:PH:65:LEU:HD11	46:PH:85:PHE:CD2	2.47	0.50
46:PH:285:THR:HB	46:PH:287:PRO:HD2	1.92	0.50
46:PJ:64:ILE:HA	46:PJ:89:ASN:HB3	1.93	0.50
46:PJ:86:ARG:HB3	46:PJ:89:ASN:OD1	2.10	0.50
45:PK:200:VAL:HG13	45:PK:268:MET:SD	2.51	0.50
46:PL:112:LEU:HD21	46:PL:147:MET:HE3	1.94	0.50
46:QH:405:GLU:OE1	46:QH:405:GLU:N	2.42	0.50
45:QI:352:LYS:NZ	46:QJ:179:VAL:HG22	2.27	0.50
45:QK:277:SER:H	45:QK:280:LYS:NZ	2.10	0.50
45:QM:75:ILE:O	45:QM:79:ARG:HG3	2.11	0.50
45:QM:268:MET:CE	45:QM:378:ILE:HG22	2.42	0.50
45:QM:268:MET:HE3	45:QM:378:ILE:HG22	1.93	0.50
46:RB:12:CYS:O	46:RB:16:ILE:HD12	2.11	0.50
45:RC:329:ASN:HA	45:RC:332:ILE:HG12	1.93	0.50
45:RC:359:PRO:HB2	45:RC:370:LYS:NZ	2.27	0.50
46:RD:196:ALA:O	46:RD:264:HIS:NE2	2.44	0.50
45:RE:319:TYR:HB3	45:RE:323:VAL:HG21	1.94	0.50
45:SC:135:PHE:HE2	45:SC:164:LYS:HG2	1.76	0.50
46:SF:201:VAL:HG23	46:SF:301:CYS:SG	2.51	0.50
45:TC:49:PHE:HD1	45:TC:53:PHE:HB2	1.76	0.50
45:TG:121:ARG:NH1	45:TG:124:LYS:HD2	2.27	0.50
45:TG:183:GLU:N	45:TG:184:PRO:HD2	2.27	0.50
45:TG:184:PRO:O	45:TG:188:ILE:HG12	2.12	0.50
46:TL:21:TRP:CE3	46:TL:24:ILE:HD11	2.46	0.50
45:TM:27:GLU:HG3	45:TM:243:ARG:HH12	1.76	0.50
45:UC:35:GLN:HE22	45:UC:60:LYS:HB2	1.77	0.50
45:UI:352:LYS:NZ	46:UJ:179:VAL:H	2.08	0.50
46:UJ:3:GLU:OE1	46:UJ:127:CYS:HB2	2.10	0.50
46:UJ:87:PRO:HA	46:UJ:90:PHE:HD2	1.77	0.50
46:UL:186:THR:HA	46:UL:189:VAL:HG12	1.93	0.50
46:UL:276:ARG:HA	46:UL:279:GLN:HE22	1.76	0.50
46:VB:327:ASP:OD1	46:VB:328:GLU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:31:GLN:HE22	45:VG:37:PRO:HD3	1.76	0.50
46:VH:127:CYS:SG	46:VH:130:LEU:HB2	2.51	0.50
45:WA:22:GLU:HG3	45:WA:83:TYR:OH	2.11	0.50
45:WA:142:GLY:HA3	45:WA:183:GLU:HG3	1.94	0.50
46:WB:19:LYS:NZ	46:WB:227:HIS:HB2	2.26	0.50
45:WC:221:ARG:HH22	46:WD:321:MET:HB3	1.76	0.50
45:WE:350:GLY:HA2	46:WH:179:VAL:HG12	1.93	0.50
46:WF:22:GLU:OE1	46:WF:80:PRO:HB2	2.12	0.50
45:WI:346:TRP:CD1	46:WL:391:ARG:HG3	2.46	0.50
45:WK:256:GLN:NE2	46:WN:397:TRP:HH2	2.09	0.50
8:1H:139:ARG:CZ	45:HI:370:LYS:HG3	2.40	0.50
24:1P:222:LEU:HB2	45:TG:282:TYR:CE2	2.45	0.50
12:1T:225:SER:N	45:MC:196:GLU:OE2	2.39	0.50
31:2I:96:TRP:CZ2	46:GF:291:GLN:HG2	2.47	0.50
34:5R:103:VAL:HG21	34:5R:106:ASN:HD22	1.77	0.50
34:6R:427:GLU:OE1	34:6R:506:LEU:HB3	2.11	0.50
34:7R:547:GLU:HA	34:7R:550:VAL:HG12	1.94	0.50
45:AA:208:ALA:O	45:AA:212:ILE:HG12	2.11	0.50
45:AC:121:ARG:NH1	45:AC:124:LYS:HD2	2.26	0.50
45:AE:175:PRO:HG3	45:AE:390:ARG:NH2	2.26	0.50
45:BA:171:ILE:HG23	45:BA:204:LEU:O	2.12	0.50
45:BG:145:THR:OG1	47:BG:501:GTP:O1B	2.29	0.50
46:BN:287:PRO:HD3	46:BN:325:GLU:OE1	2.11	0.50
46:CF:273:LEU:H	46:CF:292:GLN:HE22	1.58	0.50
45:CG:47:ASP:O	45:CG:50:ASN:HB2	2.11	0.50
46:CJ:105:HIS:CE1	46:CJ:150:LEU:HD12	2.46	0.50
46:CL:44:LEU:HA	46:CL:47:ILE:HG23	1.94	0.50
46:CL:237:THR:OG1	46:CL:241:ARG:NH2	2.44	0.50
46:CL:309:ARG:NH2	46:CL:426:GLN:O	2.38	0.50
46:DB:347:ASN:O	45:DC:181:VAL:HG12	2.12	0.50
46:DF:3:GLU:HG3	46:DF:62:ARG:NH1	2.27	0.50
46:DH:266:PHE:CE2	46:DH:370:ASN:HB2	2.47	0.50
45:DI:184:PRO:O	45:DI:188:ILE:HG12	2.11	0.50
46:DJ:250:LEU:HD12	46:DJ:250:LEU:H	1.76	0.50
46:DL:255:VAL:HG12	45:DM:407:TRP:CE3	2.46	0.50
45:EE:37:PRO:HG2	45:EE:40:LYS:H	1.76	0.50
45:EG:229:ARG:NH1	45:EG:366:GLY:HA2	2.26	0.50
45:EG:239:THR:HG23	45:EG:243:ARG:HH21	1.77	0.50
46:EH:175:VAL:HG13	46:EH:205:GLU:HG2	1.93	0.50
45:EI:51:THR:HG22	45:EI:52:PHE:CD2	2.47	0.50
45:EI:188:ILE:HG23	45:EI:425:LEU:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EK:227:LEU:O	45:EK:231:ILE:HG12	2.12	0.50
46:EN:167:PHE:HE2	46:EN:233:MET:HG2	1.77	0.50
46:FD:374:ILE:HG22	46:FD:422:TYR:CZ	2.47	0.50
45:FG:233:GLN:HG2	45:FG:272:TYR:HE1	1.76	0.50
45:FI:319:TYR:HB3	45:FI:323:VAL:HG11	1.93	0.50
45:FK:55:GLU:OE1	45:FK:61:HIS:NE2	2.44	0.50
45:FK:181:VAL:HG22	46:FL:256:ASN:OD1	2.12	0.50
46:GF:7:ILE:CD1	46:GF:64:ILE:HB	2.42	0.50
46:GF:66:MET:HA	46:GF:91:VAL:O	2.12	0.50
45:GI:326:LYS:HE3	46:GL:212:PHE:CE1	2.46	0.50
46:GJ:139:LEU:HD13	46:GJ:168:SER:HB3	1.92	0.50
45:GK:178:SER:HB2	46:GL:347:ASN:HD22	1.75	0.50
46:GL:309:ARG:NH2	46:GL:426:GLN:O	2.36	0.50
45:HC:211:ASP:OD1	45:HC:215:ARG:NH1	2.45	0.50
45:HG:56:THR:HG23	45:HG:58:ALA:H	1.76	0.50
46:HN:132:GLY:HA3	46:HN:163:ILE:O	2.11	0.50
46:HN:290:THR:CG2	46:HN:329:GLN:HE21	2.25	0.50
45:IA:5:ILE:HG22	45:IA:64:ARG:HG2	1.94	0.50
45:IA:346:TRP:CD1	46:ID:391:ARG:HG3	2.47	0.50
46:IF:198:GLU:HG2	46:IF:266:PHE:CE2	2.47	0.50
46:IH:201:VAL:O	46:IH:202:ILE:HD13	2.10	0.50
46:IJ:6:HIS:CE1	46:IJ:21:TRP:HE1	2.29	0.50
45:IK:185:TYR:HE1	45:IK:398:MET:HG3	1.77	0.50
45:IM:74:VAL:O	45:IM:77:GLU:HG3	2.12	0.50
46:IN:372:THR:HA	46:IN:422:TYR:HE2	1.76	0.50
45:JA:215:ARG:HH22	45:JA:300:ASN:CA	2.25	0.50
46:JD:296:ALA:HB3	46:JD:297:LYS:NZ	2.25	0.50
46:JH:148:GLY:O	46:JH:152:ILE:HG12	2.11	0.50
46:JH:201:VAL:HG23	46:JH:301:CYS:SG	2.52	0.50
45:JK:372:MET:SD	45:JK:373:ARG:HG3	2.52	0.50
45:JM:17:GLY:HA2	45:JM:20:CYS:SG	2.52	0.50
45:JM:31:GLN:OE1	45:JM:37:PRO:HD3	2.11	0.50
45:JM:175:PRO:HG2	45:JM:304:LYS:HG2	1.93	0.50
46:JN:148:GLY:O	46:JN:152:ILE:HG13	2.10	0.50
45:KC:204:LEU:HD12	45:KC:231:ILE:HD12	1.93	0.50
46:KF:350:LYS:NZ	46:KF:352:SER:OG	2.45	0.50
45:KG:75:ILE:O	45:KG:79:ARG:HG3	2.12	0.50
46:KH:2:ARG:HB2	46:KH:131:GLN:HG3	1.94	0.50
46:KL:20:PHE:HA	46:KL:230:SER:HB2	1.93	0.50
45:KM:75:ILE:HG21	45:KM:94:SER:HB3	1.93	0.50
46:KN:375:GLN:HB2	46:KN:419:VAL:HG23	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LE:208:ALA:O	45:LE:212:ILE:HG12	2.11	0.50
46:LF:48:ASN:O	46:LF:62:ARG:NH1	2.44	0.50
46:LF:280:GLN:N	46:LF:280:GLN:OE1	2.45	0.50
45:MC:98:ASP:OD1	45:MC:99:ALA:N	2.44	0.50
46:ML:5:VAL:HG12	46:ML:62:ARG:HD3	1.94	0.50
46:NB:304:ASP:HB3	46:NB:307:HIS:ND1	2.26	0.50
45:NI:88:HIS:O	45:NI:91:GLN:HG2	2.12	0.50
45:NK:147:SER:HB2	45:NK:190:SER:OG	2.11	0.50
45:NK:183:GLU:N	45:NK:184:PRO:HD2	2.25	0.50
45:NM:211:ASP:O	45:NM:215:ARG:HG2	2.10	0.50
46:NN:19:LYS:HD3	46:NN:22:GLU:OE2	2.11	0.50
45:OA:231:ILE:O	45:OA:235:ILE:HG12	2.11	0.50
45:OE:166:LYS:HG3	45:OE:199:ASP:H	1.76	0.50
45:OE:398:MET:HE1	46:OF:346:PRO:HD2	1.94	0.50
45:OK:336:LYS:O	45:OK:339:ARG:NH2	2.44	0.50
45:PA:105:ARG:CZ	45:PA:110:ILE:HD11	2.42	0.50
45:PA:320:ARG:HG2	45:PA:358:GLN:O	2.11	0.50
45:PE:177:VAL:HG21	46:PF:327:ASP:HB3	1.93	0.50
45:PE:328:VAL:O	45:PE:332:ILE:HG12	2.11	0.50
45:PM:328:VAL:HG11	45:PM:353:VAL:HG21	1.94	0.50
45:QC:176:GLN:OE1	45:QC:304:LYS:NZ	2.44	0.50
45:QE:69:ASP:OD1	45:QE:70:LEU:N	2.44	0.50
45:QE:208:ALA:O	45:QE:212:ILE:HG12	2.12	0.50
46:QF:11:GLN:HE21	49:QF:501:GDP:PA	2.34	0.50
45:QI:183:GLU:N	45:QI:184:PRO:HD2	2.27	0.50
46:QL:141:GLY:HA3	49:QL:501:GDP:PB	2.52	0.50
46:QL:325:GLU:HA	46:QL:328:GLU:OE2	2.11	0.50
45:QM:183:GLU:N	45:QM:184:PRO:HD2	2.27	0.50
46:RB:309:ARG:HE	46:RB:426:GLN:HG3	1.77	0.50
45:RC:319:TYR:CD2	45:RC:375:VAL:HG12	2.46	0.50
45:RE:256:GLN:HB2	46:RF:397:TRP:CH2	2.46	0.50
45:RI:27:GLU:OE2	45:RI:236:SER:OG	2.24	0.50
45:RI:183:GLU:N	45:RI:184:PRO:HD2	2.26	0.50
45:RI:188:ILE:HD12	45:RI:425:LEU:HD11	1.94	0.50
46:RJ:2:ARG:NH1	45:RK:72:PRO:HD2	2.26	0.50
46:RL:5:VAL:HG12	46:RL:62:ARG:HD3	1.94	0.50
46:RL:11:GLN:OE1	46:RL:15:GLN:NE2	2.44	0.50
45:RM:340:THR:HG23	45:RM:341:ILE:HG13	1.94	0.50
45:SI:72:PRO:HA	45:SI:75:ILE:HG22	1.94	0.50
45:SK:328:VAL:HG11	45:SK:353:VAL:HG21	1.93	0.50
45:TA:217:LEU:HD21	45:TA:368:LEU:HD22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TC:135:PHE:HB2	45:TC:166:LYS:HG3	1.93	0.50
45:TC:414:GLU:OE1	45:TC:415:GLU:N	2.45	0.50
45:TE:183:GLU:N	45:TE:184:PRO:HD2	2.26	0.50
46:TF:394:PHE:HA	46:TF:397:TRP:CZ3	2.46	0.50
46:TL:186:THR:O	46:TL:415:MET:HE1	2.11	0.50
45:TM:141:VAL:HG22	45:TM:187:SER:HA	1.93	0.50
46:UB:3:GLU:CD	46:UB:3:GLU:H	2.14	0.50
46:UB:128:ASP:OD1	46:UB:129:CYS:N	2.40	0.50
45:UC:172:TYR:CE1	45:UC:203:MET:HA	2.44	0.50
45:UG:201:ALA:HB3	45:UG:267:PHE:HD2	1.76	0.50
45:UI:337:THR:O	45:UI:339:ARG:NH1	2.45	0.50
46:UJ:87:PRO:HA	46:UJ:90:PHE:CD2	2.46	0.50
45:UK:8:HIS:HB2	45:UK:67:PHE:HD2	1.76	0.50
46:VJ:103:LYS:HG3	46:VJ:108:GLU:OE1	2.11	0.50
45:VK:422:ARG:O	45:VK:422:ARG:NH1	2.45	0.50
45:VM:288:VAL:HA	45:VM:291:ILE:HG12	1.94	0.50
46:VN:190:HIS:O	46:VN:193:VAL:HG12	2.12	0.50
45:WA:346:TRP:CD1	46:WD:391:ARG:HG3	2.47	0.50
46:WB:175:VAL:HG22	46:WB:205:GLU:HB3	1.93	0.50
45:WE:407:TRP:CZ2	46:WF:258:ILE:HD11	2.45	0.50
45:WG:336:LYS:O	45:WG:339:ARG:NH2	2.44	0.50
46:WL:6:HIS:HD2	46:WL:21:TRP:HE1	1.59	0.50
45:WM:292:THR:HG21	45:WM:331:SER:HB3	1.94	0.50
46:WN:375:GLN:HG3	46:WN:422:TYR:HD2	1.75	0.50
45:DC:208:ALA:O	45:DC:212:ILE:HG12	2.11	0.50
18:II:8:LEU:HD13	46:JD:218:THR:HG23	1.94	0.50
21:IL:901:LYS:H	46:CB:320:ARG:HH12	1.58	0.50
30:2H:185:GLU:OE2	46:AD:359:LYS:NZ	2.45	0.50
23:3O:373:ARG:HH12	45:UI:281:ALA:N	2.08	0.50
11:3S:96:LEU:HD22	46:MN:410:GLU:HG2	1.94	0.50
33:4F:14:TYR:OH	46:GJ:53:GLU:OE1	2.29	0.50
34:5R:531:THR:HB	34:5R:588:LEU:HD11	1.92	0.50
34:6R:231:TYR:CZ	46:CN:216:LYS:HG3	2.47	0.50
34:7R:389:ASN:N	46:EB:276:ARG:HH22	2.10	0.50
45:AC:28:HIS:CE1	45:AC:49:PHE:HA	2.47	0.50
45:AC:69:ASP:OD1	45:AC:70:LEU:N	2.44	0.50
46:AH:267:MET:HG3	46:AH:299:MET:HE2	1.94	0.50
46:AH:285:THR:HB	46:AH:287:PRO:HD2	1.94	0.50
46:AL:12:CYS:O	46:AL:16:ILE:HG12	2.12	0.50
45:BA:210:TYR:CG	46:BB:324:LYS:HD2	2.47	0.50
45:BE:274:PRO:HG3	45:BE:286:LEU:HD13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BJ:301:CYS:HB3	46:BJ:377:MET:HE1	1.92	0.50
46:CD:67:ASP:OD2	46:CD:69:GLU:HG2	2.11	0.50
46:CF:294:PHE:CE2	46:CF:333:VAL:HG11	2.47	0.50
46:CJ:86:ARG:HB3	46:CJ:88:ASP:OD1	2.12	0.50
46:CL:238:CYS:SG	46:CL:239:CYS:N	2.85	0.50
46:DB:133:PHE:HB2	46:DB:164:MET:SD	2.52	0.50
45:DG:74:VAL:O	45:DG:78:VAL:HG23	2.11	0.50
45:EG:37:PRO:HG2	45:EG:40:LYS:HD3	1.93	0.50
46:EH:386:THR:O	46:EH:390:ARG:HG3	2.11	0.50
45:EI:208:ALA:O	45:EI:212:ILE:HG12	2.11	0.50
45:EK:195:LEU:HD22	45:EK:428:LEU:HD11	1.93	0.50
45:EM:185:TYR:O	45:EM:189:LEU:HG	2.12	0.50
46:FF:192:LEU:HD21	46:FF:199:CYS:SG	2.52	0.50
46:FJ:55:THR:HG23	46:GJ:283:ALA:HA	1.92	0.50
46:FJ:262:ARG:NH1	46:FJ:421:GLU:OE1	2.45	0.50
45:FK:174:SER:HB2	45:FK:177:VAL:HB	1.93	0.50
45:FM:135:PHE:HB2	45:FM:166:LYS:HG2	1.94	0.50
46:GF:285:THR:OG1	46:GF:288:GLU:OE1	2.30	0.50
45:GG:384:ILE:O	45:GG:387:VAL:HG22	2.11	0.50
45:GK:414:GLU:CD	45:GK:416:GLY:H	2.13	0.50
45:HC:260:VAL:HG13	45:HC:265:ILE:O	2.10	0.50
46:HJ:39:ASP:OD1	46:HJ:40:SER:N	2.45	0.50
46:HN:240:LEU:HD12	46:HN:249:ASP:HB2	1.93	0.50
45:IA:260:VAL:H	46:ID:397:TRP:HH2	1.59	0.50
46:ID:248:SER:HB2	46:ID:252:LYS:HG2	1.94	0.50
46:ID:309:ARG:NH2	46:ID:426:GLN:O	2.30	0.50
46:IH:232:ALA:HB1	46:IH:268:ILE:HD12	1.92	0.50
45:II:10:GLY:O	45:II:14:ILE:HG12	2.12	0.50
46:IJ:86:ARG:HH11	46:IJ:87:PRO:HD2	1.77	0.50
46:IJ:114:ASP:OD1	46:IJ:115:SER:N	2.44	0.50
45:IK:121:ARG:HA	45:IK:124:LYS:HZ3	1.74	0.50
45:IK:245:ASP:N	45:IK:245:ASP:OD2	2.43	0.50
45:JA:68:LEU:HD23	45:JA:93:ILE:HB	1.92	0.50
45:JC:173:PRO:HB3	45:JC:183:GLU:OE2	2.11	0.50
45:JE:183:GLU:N	45:JE:184:PRO:HD2	2.27	0.50
46:JF:289:LEU:HD13	46:JF:365:VAL:HG23	1.94	0.50
45:JM:288:VAL:HG11	45:JM:327:ASP:HB3	1.94	0.50
46:JN:19:LYS:HD3	46:JN:227:HIS:CD2	2.46	0.50
45:KA:313:MET:HE1	45:KA:382:THR:HG23	1.93	0.50
46:KB:86:ARG:NH1	46:KB:86:ARG:HA	2.26	0.50
46:KH:150:LEU:O	46:KH:154:LYS:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KN:121:ARG:O	46:KN:125:GLU:HG2	2.12	0.50
45:LA:183:GLU:N	45:LA:184:PRO:HD2	2.26	0.50
46:LD:135:ILE:HG13	46:LD:152:ILE:HD11	1.92	0.50
46:LL:20:PHE:HA	46:LL:230:SER:OG	2.12	0.50
46:MJ:97:ALA:HB3	46:MJ:143:THR:HB	1.94	0.50
45:MM:183:GLU:N	45:MM:184:PRO:HD2	2.26	0.50
45:NC:116:ASP:N	45:NC:116:ASP:OD2	2.43	0.50
45:NE:328:VAL:O	45:NE:332:ILE:HG12	2.11	0.50
45:NG:331:SER:O	45:NG:335:ILE:HG12	2.12	0.50
46:NJ:36:TYR:CZ	46:NJ:44:LEU:HD21	2.47	0.50
46:NJ:167:PHE:CZ	46:NJ:233:MET:HG2	2.47	0.50
46:NL:67:ASP:OD2	46:NL:68:LEU:N	2.44	0.50
45:OA:389:SER:O	45:OA:393:HIS:ND1	2.39	0.50
46:OD:2:ARG:HA	46:OD:131:GLN:NE2	2.25	0.50
45:OK:396:ASP:OD2	45:OK:422:ARG:NH1	2.44	0.50
45:PA:147:SER:HB2	45:PA:190:SER:HB3	1.92	0.50
46:PB:282:ARG:NH2	46:PB:292:GLN:OE1	2.42	0.50
45:PC:221:ARG:HH22	46:PD:286:VAL:HG21	1.77	0.50
45:PC:331:SER:O	45:PC:335:ILE:HG12	2.12	0.50
46:PH:406:MET:O	46:PH:410:GLU:HG2	2.11	0.50
45:PI:331:SER:O	45:PI:335:ILE:HG12	2.11	0.50
46:PL:309:ARG:NH2	46:PL:426:GLN:O	2.35	0.50
46:QD:285:THR:HA	46:QD:363:MET:HE1	1.93	0.50
45:QE:211:ASP:HA	45:QE:214:ARG:HG2	1.93	0.50
46:QL:6:HIS:CD2	46:QL:8:GLN:NE2	2.79	0.50
46:QL:312:THR:HA	46:QL:348:ASN:HB3	1.93	0.50
46:QN:268:ILE:HG22	46:QN:368:VAL:HG22	1.93	0.50
46:RB:313:ALA:HB1	46:RB:367:PHE:CE1	2.46	0.50
45:RC:224:TYR:HD1	45:RC:227:LEU:HD12	1.76	0.50
45:RE:27:GLU:CD	45:RE:243:ARG:HH12	2.15	0.50
45:RE:188:ILE:HG23	45:RE:425:LEU:HD11	1.94	0.50
46:RF:375:GLN:NE2	46:RF:423:GLN:HB3	2.27	0.50
46:RH:54:ALA:HA	46:SH:283:ALA:HB2	1.94	0.50
45:RK:76:ASP:HA	45:RK:79:ARG:HG2	1.94	0.50
46:RL:186:THR:HA	46:RL:189:VAL:HG22	1.93	0.50
46:RL:289:LEU:HD13	46:RL:365:VAL:HG23	1.94	0.50
46:RN:6:HIS:O	46:RN:63:ALA:HA	2.12	0.50
46:SJ:87:PRO:HA	46:SJ:90:PHE:HD2	1.76	0.50
45:TC:82:THR:HG23	45:TC:83:TYR:HD1	1.76	0.50
46:TD:415:MET:HA	46:TD:418:LEU:HG	1.92	0.50
45:UE:195:LEU:O	45:UE:266:HIS:NE2	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:10:GLY:O	46:UF:14:ASN:ND2	2.45	0.50
45:UG:390:ARG:HD2	45:UG:391:LEU:HD22	1.94	0.50
46:UL:19:LYS:HD2	46:UL:19:LYS:N	2.26	0.50
45:VA:387:VAL:HG23	45:VA:388:PHE:CD2	2.47	0.50
45:VG:80:THR:O	45:VG:84:ARG:NH2	2.40	0.50
46:VH:54:ALA:HB3	46:VH:58:ARG:HG2	1.93	0.50
46:VJ:67:ASP:O	46:VJ:92:PHE:HA	2.11	0.50
45:VK:356:ASN:OD1	45:VK:357:TYR:N	2.43	0.50
46:VL:309:ARG:NH2	46:VL:426:GLN:O	2.38	0.50
46:WB:67:ASP:OD2	46:WB:72:THR:OG1	2.29	0.50
45:WC:68:LEU:HD23	45:WC:149:LEU:HD21	1.94	0.50
45:WE:172:TYR:HD1	45:WE:173:PRO:HD2	1.75	0.50
45:WE:183:GLU:N	45:WE:184:PRO:HD2	2.27	0.50
46:WH:67:ASP:OD1	46:WH:68:LEU:N	2.44	0.50
46:WH:306:ARG:NH1	46:WH:306:ARG:HB2	2.26	0.50
45:WI:31:GLN:NE2	45:WI:37:PRO:HD3	2.22	0.50
46:WN:150:LEU:HG	46:WN:154:LYS:NZ	2.26	0.50
9:ON:10:TYR:OH	46:IN:52:ASN:OD1	2.28	0.50
3:1C:86:LYS:NZ	45:EM:81:GLY:HA2	2.26	0.50
21:2L:575:LYS:HZ3	45:AM:85:GLN:HG2	1.77	0.50
1:3A:128:HIS:HA	46:AN:362:LYS:CE	2.42	0.50
35:4S:114:GLU:CD	35:4S:115:PRO:HA	2.32	0.50
15:4X:57:LYS:O	15:4X:60:GLU:HG3	2.12	0.50
37:5F:126:LEU:HD13	45:OE:285:GLN:NE2	2.27	0.50
34:5R:309:LEU:HD11	34:5R:342:ILE:HG23	1.92	0.50
45:AA:414:GLU:CD	45:AA:416:GLY:H	2.15	0.50
45:AI:201:ALA:HB3	45:AI:267:PHE:HD2	1.76	0.50
46:AJ:60:VAL:HG12	46:AJ:86:ARG:HH11	1.77	0.50
46:AN:192:LEU:HD21	46:AN:199:CYS:SG	2.51	0.50
46:BB:67:ASP:O	46:BB:92:PHE:HA	2.11	0.50
46:BL:68:LEU:HB3	46:BL:96:GLY:HA2	1.93	0.50
46:BL:105:HIS:CD2	46:BL:150:LEU:HD12	2.47	0.50
46:BL:372:THR:HA	46:BL:422:TYR:HE1	1.76	0.50
45:BM:181:VAL:HG13	45:BM:182:VAL:HG13	1.92	0.50
45:CA:329:ASN:HA	45:CA:332:ILE:HG22	1.93	0.50
46:CB:211:CYS:HA	46:CB:215:LEU:HB2	1.93	0.50
46:CD:39:ASP:OD1	46:CD:39:ASP:N	2.42	0.50
45:CG:21:TRP:CZ2	45:CG:65:ALA:HB2	2.47	0.50
45:CK:141:VAL:HG11	45:CK:172:TYR:HA	1.93	0.50
46:CN:237:THR:HG23	46:CN:241:ARG:HH21	1.76	0.50
46:DF:52:ASN:OD1	46:DF:62:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DI:288:VAL:HA	45:DI:291:ILE:HG22	1.92	0.50
45:DK:387:VAL:O	45:DK:390:ARG:HG2	2.11	0.50
46:DL:314:SER:HA	46:DL:350:LYS:HB2	1.94	0.50
45:EA:340:THR:HG23	45:EA:341:ILE:HG13	1.92	0.50
46:EF:3:GLU:OE2	46:EF:127:CYS:HB2	2.12	0.50
46:EF:173:PRO:HB3	46:EF:384:GLN:HE22	1.77	0.50
45:EG:118:CYS:O	45:EG:122:ILE:HG12	2.12	0.50
45:EI:217:LEU:HD13	45:EI:367:ASP:HB3	1.92	0.50
45:FA:387:VAL:O	45:FA:390:ARG:HG2	2.11	0.50
46:FB:42:LEU:HB3	46:FB:242:PHE:HE1	1.76	0.50
45:FC:223:THR:HG23	45:FC:225:THR:H	1.77	0.50
46:FF:229:VAL:O	46:FF:233:MET:HG3	2.11	0.50
46:FH:318:ARG:HH11	46:FH:358:PRO:HG3	1.77	0.50
45:FI:187:SER:O	45:FI:191:THR:HG23	2.11	0.50
45:FK:396:ASP:OD1	45:FK:422:ARG:NE	2.45	0.50
46:FN:288:GLU:O	46:FN:291:GLN:HG3	2.12	0.50
45:GA:271:SER:HA	45:GA:302:MET:HG2	1.93	0.50
46:GB:133:PHE:HB2	46:GB:164:MET:SD	2.52	0.50
46:GB:272:PRO:HD3	46:GB:364:ALA:HA	1.92	0.50
45:GC:184:PRO:O	45:GC:188:ILE:HG12	2.11	0.50
45:GE:201:ALA:HB3	45:GE:267:PHE:HD1	1.77	0.50
45:GK:258:ASN:ND2	45:GK:352:LYS:HE3	2.26	0.50
45:HA:188:ILE:HG13	45:HA:425:LEU:HD11	1.94	0.50
46:HD:6:HIS:HE2	46:HD:8:GLN:HB3	1.76	0.50
46:HF:163:ILE:CD1	46:HF:250:LEU:HD11	2.41	0.50
46:HL:268:ILE:HG22	46:HL:368:VAL:HG22	1.94	0.50
46:HL:329:GLN:O	46:HL:333:VAL:HG23	2.12	0.50
45:HM:183:GLU:N	45:HM:184:PRO:HD2	2.27	0.50
45:IA:55:GLU:HG3	45:IA:57:GLY:H	1.76	0.50
45:IC:268:MET:N	45:IC:268:MET:SD	2.85	0.50
46:IH:47:ILE:HD12	46:IH:59:TYR:CE1	2.47	0.50
46:IH:290:THR:HA	46:IH:293:MET:HG2	1.92	0.50
46:IL:201:VAL:O	46:IL:202:ILE:HD13	2.10	0.50
46:IN:208:TYR:CE2	46:IN:225:LEU:HD11	2.46	0.50
46:JF:19:LYS:NZ	46:JF:227:HIS:HB2	2.27	0.50
46:JF:101:TRP:CE3	46:JF:187:LEU:HD23	2.47	0.50
46:JF:309:ARG:NH2	46:JF:426:GLN:O	2.36	0.50
45:JI:70:LEU:HA	45:JI:95:GLY:HA3	1.94	0.50
45:JK:319:TYR:HB3	45:JK:323:VAL:HG21	1.94	0.50
45:JM:20:CYS:HA	45:JM:232:ALA:HB1	1.93	0.50
46:JN:267:MET:CE	46:JN:299:MET:HB3	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KA:239:THR:HG22	45:KA:243:ARG:HE	1.77	0.50
46:KD:267:MET:HG3	46:KD:299:MET:HE2	1.94	0.50
46:KD:285:THR:HB	46:KD:287:PRO:HD2	1.94	0.50
45:KG:222:PRO:HD2	46:KH:324:LYS:CE	2.25	0.50
46:KL:284:LEU:HD11	46:KL:362:LYS:HB2	1.94	0.50
45:KM:318:MET:HB2	45:KM:376:CYS:HG	1.75	0.50
46:KN:67:ASP:O	46:KN:92:PHE:HA	2.12	0.50
46:KN:165:GLU:OE2	46:KN:250:LEU:HD13	2.12	0.50
46:LD:86:ARG:NE	46:LD:87:PRO:HD2	2.27	0.50
45:LG:208:ALA:O	45:LG:212:ILE:HG12	2.11	0.50
46:LJ:7:ILE:HG22	46:LJ:64:ILE:HB	1.94	0.50
45:LM:205:ASP:CG	45:LM:304:LYS:H	2.14	0.50
46:LN:198:GLU:OE2	46:LN:254:ALA:HB2	2.11	0.50
45:MA:184:PRO:O	45:MA:188:ILE:HG12	2.12	0.50
46:MF:103:LYS:HD2	46:MF:107:THR:HG21	1.93	0.50
45:MI:282:TYR:OH	45:MI:370:LYS:O	2.27	0.50
45:MK:419:SER:O	45:MK:423:GLU:HG2	2.12	0.50
45:MM:265:ILE:HG22	45:MM:432:TYR:HE1	1.76	0.50
46:NB:117:LEU:O	46:NB:121:ARG:HG3	2.12	0.50
46:NB:316:LEU:HB2	46:NB:366:THR:HG22	1.93	0.50
45:NE:250:VAL:HG13	45:NE:254:GLU:HB2	1.93	0.50
45:NG:133:GLN:O	45:NG:165:SER:OG	2.28	0.50
45:NG:136:LEU:HD23	45:NG:167:LEU:HB2	1.93	0.50
46:NH:330:MET:HE2	46:NH:349:ILE:HG21	1.94	0.50
46:NJ:33:THR:O	46:NJ:58:ARG:NH2	2.45	0.50
45:NK:231:ILE:O	45:NK:235:ILE:HG12	2.12	0.50
45:OC:430:LYS:HA	45:OC:433:GLU:HG2	1.93	0.50
45:OE:88:HIS:O	45:OE:91:GLN:HG2	2.12	0.50
45:OG:220:GLU:OE2	45:OG:221:ARG:HG2	2.12	0.50
45:PA:223:THR:HG23	45:PA:225:THR:H	1.76	0.50
46:PB:309:ARG:NH2	46:PB:426:GLN:O	2.37	0.50
45:PC:96:LYS:HG3	46:PD:129:CYS:SG	2.52	0.50
46:PH:273:LEU:H	46:PH:292:GLN:NE2	2.07	0.50
45:PI:67:PHE:HB2	45:PI:92:LEU:HD13	1.94	0.50
45:PI:221:ARG:HE	45:PI:221:ARG:HA	1.77	0.50
45:PK:319:TYR:HB3	45:PK:323:VAL:HG11	1.93	0.50
46:PL:287:PRO:HG3	46:PL:329:GLN:HE22	1.77	0.50
46:QD:16:ILE:HD13	46:QD:226:ASN:OD1	2.12	0.50
46:QF:54:ALA:HA	46:RF:283:ALA:HB2	1.93	0.50
46:QL:322:SER:OG	45:QM:221:ARG:NH1	2.44	0.50
46:QN:65:LEU:HD22	46:QN:90:PHE:HE1	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RE:12:GLY:HA2	45:RE:15:GLN:HE21	1.76	0.50
45:RE:188:ILE:HD12	45:RE:425:LEU:HD11	1.92	0.50
46:RH:258:ILE:O	46:RH:258:ILE:HG13	2.12	0.50
46:RL:272:PRO:HD3	46:RL:364:ALA:HA	1.93	0.50
45:SA:291:ILE:HD11	45:SA:319:TYR:HE1	1.76	0.50
45:SC:260:VAL:HG13	45:SC:265:ILE:O	2.12	0.50
46:SD:293:MET:CE	46:SD:367:PHE:HB3	2.41	0.50
45:SG:371:VAL:HG22	45:SG:373:ARG:H	1.77	0.50
46:SJ:183:TYR:HA	46:SJ:385:PHE:HE1	1.77	0.50
45:SK:367:ASP:N	45:SK:367:ASP:OD1	2.45	0.50
46:TD:321:MET:HB2	45:TE:221:ARG:HH21	1.74	0.50
46:TH:133:PHE:HB2	46:TH:164:MET:SD	2.52	0.50
46:TJ:320:ARG:HD3	46:TJ:355:ASP:HB3	1.94	0.50
45:TK:340:THR:HG23	45:TK:341:ILE:HG13	1.94	0.50
46:TL:128:ASP:OD1	46:TL:129:CYS:N	2.40	0.50
46:TL:334:GLN:HG3	46:TL:341:PHE:HD2	1.77	0.50
46:UD:208:TYR:CE2	46:UD:225:LEU:HD11	2.47	0.50
46:UD:324:LYS:CD	45:UE:222:PRO:HG2	2.40	0.50
45:UE:11:GLN:H	47:UE:501:GTP:PB	2.34	0.50
45:UG:215:ARG:NH2	45:UG:299:ALA:O	2.43	0.50
45:UI:32:PRO:HB3	45:UI:83:TYR:HE1	1.77	0.50
45:UI:226:ASN:ND2	45:UI:367:ASP:OD2	2.45	0.50
45:UM:430:LYS:O	45:UM:434:GLU:OE1	2.29	0.50
46:UN:201:VAL:HG23	46:UN:301:CYS:SG	2.52	0.50
45:VC:244:PHE:HB2	45:VC:356:ASN:HD21	1.77	0.50
46:VH:113:ILE:HD13	46:VH:150:LEU:HD22	1.92	0.50
45:VI:244:PHE:HB2	45:VI:356:ASN:HD21	1.76	0.50
45:VI:265:ILE:HG22	45:VI:380:ASN:HD21	1.77	0.50
45:VK:261:PRO:CD	45:VK:262:TYR:N	2.74	0.50
45:VK:348:PRO:HD3	46:VN:388:MET:CE	2.41	0.50
46:VL:24:ILE:HA	46:VL:27:GLU:OE2	2.11	0.50
46:VL:399:THR:HA	46:VL:403:MET:HB2	1.94	0.50
46:VN:122:LYS:HA	46:VN:125:GLU:HG2	1.93	0.50
46:WD:116:VAL:HA	46:WD:119:VAL:HG22	1.92	0.50
46:WD:208:TYR:CE1	46:WD:225:LEU:HD11	2.47	0.50
46:WD:286:VAL:HG23	46:WD:287:PRO:HD3	1.94	0.50
45:WE:328:VAL:O	45:WE:332:ILE:HG12	2.11	0.50
46:WF:132:GLY:HA3	46:WF:163:ILE:O	2.11	0.50
46:WF:325:GLU:O	46:WF:329:GLN:HB2	2.12	0.50
46:WH:6:HIS:NE2	46:WH:8:GLN:OE1	2.44	0.50
46:WH:121:ARG:O	46:WH:125:GLU:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0D:40:GLY:O	45:DC:79:ARG:NH1	2.45	0.50
19:1J:181:GLY:N	45:IG:221:ARG:O	2.37	0.50
5:2E:118:ARG:HH22	34:5R:537:LYS:HE3	1.75	0.50
31:2I:38:SER:OG	45:FG:95:GLY:O	2.27	0.50
35:4S:166:GLN:OE1	35:4S:224:ILE:HD13	2.12	0.50
34:5R:246:GLN:HG3	45:BI:58:ALA:HB1	1.94	0.50
34:5R:508:ALA:HB3	34:5R:513:HIS:NE2	2.26	0.50
34:5R:542:TYR:HD2	34:5R:548:PHE:HA	1.77	0.50
35:5S:125:GLU:HB3	35:5S:164:LYS:HZ3	1.76	0.50
35:5S:183:TYR:HD1	35:5S:187:LEU:HD21	1.76	0.50
41:6H:174:MET:HA	41:6H:177:GLU:CD	2.32	0.50
41:6H:204:LEU:O	41:6H:204:LEU:HD12	2.11	0.50
34:6R:426:PHE:HE1	34:6R:512:THR:HG21	1.76	0.50
46:AB:48:ASN:O	46:AB:62:ARG:NH2	2.45	0.50
46:AB:376:GLU:HG3	46:AB:380:ARG:HH12	1.76	0.50
46:AJ:174:LYS:HE2	46:AJ:205:GLU:OE2	2.12	0.50
46:AL:151:LEU:HA	46:AL:154:LYS:HZ1	1.77	0.50
46:AL:178:THR:HG22	46:AL:180:VAL:H	1.77	0.50
45:BA:2:ARG:HA	45:BA:133:GLN:HE22	1.77	0.50
45:BE:398:MET:HG2	46:BF:345:ILE:HG22	1.93	0.50
45:BK:111:GLY:O	45:BK:115:VAL:HG13	2.12	0.50
45:BK:217:LEU:HB3	45:BK:219:ILE:CD1	2.42	0.50
45:BM:221:ARG:NH2	46:BN:321:MET:HB3	2.27	0.50
45:CA:183:GLU:N	45:CA:184:PRO:HD2	2.27	0.50
46:CD:186:THR:HA	46:CD:189:VAL:HG12	1.93	0.50
46:CF:30:ILE:HD11	46:CF:47:ILE:HD11	1.94	0.50
45:CI:184:PRO:O	45:CI:188:ILE:HG12	2.11	0.50
46:CJ:30:ILE:HD11	46:CJ:47:ILE:HD11	1.94	0.50
45:DE:21:TRP:CZ3	45:DE:63:PRO:HB3	2.47	0.50
45:DE:223:THR:HG23	45:DE:225:THR:H	1.76	0.50
46:DJ:208:TYR:CE1	46:DJ:225:LEU:HD11	2.46	0.50
45:DK:36:MET:SD	45:DK:37:PRO:HD2	2.51	0.50
46:DL:189:VAL:HA	46:DL:192:LEU:HB3	1.94	0.50
46:DL:312:THR:HG22	46:DL:370:ASN:HB3	1.93	0.50
46:EB:240:LEU:HD21	46:EB:249:ASP:HA	1.94	0.50
45:EE:98:ASP:O	45:EE:105:ARG:NH1	2.45	0.50
45:EE:135:PHE:HB2	45:EE:166:LYS:HG2	1.92	0.50
45:EI:141:VAL:HG11	45:EI:172:TYR:CD1	2.47	0.50
45:FE:296:PHE:HE1	45:FE:377:MET:HE3	1.77	0.50
46:FF:165:GLU:HG2	46:FF:198:GLU:HB2	1.94	0.50
45:FI:398:MET:HE2	46:FJ:346:PRO:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FK:259:LEU:HD21	45:FK:316:SER:HB2	1.93	0.50
45:GC:336:LYS:O	45:GC:339:ARG:NH2	2.45	0.50
45:GI:192:HIS:HD2	45:GI:421:ALA:HA	1.76	0.50
46:GJ:390:ARG:CZ	46:GJ:390:ARG:HA	2.41	0.50
45:GK:107:HIS:ND1	45:GK:107:HIS:O	2.45	0.50
45:HC:17:GLY:HA2	45:HC:20:CYS:SG	2.52	0.50
45:HC:387:VAL:HG12	45:HC:390:ARG:NH1	2.27	0.50
45:HE:407:TRP:CZ2	46:HF:258:ILE:HD11	2.47	0.50
45:HI:210:TYR:CE1	46:HJ:324:LYS:HE3	2.47	0.50
46:HJ:8:GLN:OE1	46:HJ:17:GLY:HA3	2.11	0.50
45:HK:183:GLU:N	45:HK:184:PRO:HD2	2.25	0.50
45:HK:248:LEU:HB3	45:HK:355:ILE:HG22	1.94	0.50
46:IH:344:TRP:HB3	46:IH:430:ALA:HB2	1.92	0.50
45:II:133:GLN:HB3	45:II:252:ILE:HG21	1.94	0.50
45:II:183:GLU:N	45:II:184:PRO:HD2	2.27	0.50
45:IM:296:PHE:CE2	45:IM:335:ILE:HG13	2.47	0.50
46:IN:319:GLY:HA3	46:IN:363:MET:HE1	1.92	0.50
45:JA:88:HIS:HB3	45:JA:91:GLN:HG2	1.93	0.50
46:JF:152:ILE:HG23	46:JF:164:MET:SD	2.52	0.50
45:JG:26:LEU:HD11	45:JG:364:PRO:HD2	1.93	0.50
45:JM:389:SER:O	45:JM:393:HIS:ND1	2.45	0.50
46:JN:350:LYS:HD3	46:JN:351:SER:N	2.26	0.50
46:KD:31:ASP:OD2	46:KD:33:THR:OG1	2.30	0.50
45:KG:17:GLY:HA2	45:KG:20:CYS:SG	2.52	0.50
45:KG:318:MET:HB2	45:KG:376:CYS:SG	2.52	0.50
45:KG:439:THR:HG22	46:KJ:391:ARG:HD3	1.93	0.50
46:KJ:9:GLY:HA3	46:KJ:66:MET:SD	2.52	0.50
46:KJ:167:PHE:HD2	46:KJ:202:ILE:HD11	1.76	0.50
45:LM:392:ASP:OD2	45:LM:422:ARG:NH1	2.45	0.50
45:MA:260:VAL:O	46:MD:397:TRP:HH2	1.95	0.50
45:MC:183:GLU:N	45:MC:184:PRO:HD2	2.27	0.50
46:MF:11:GLN:HE21	49:MF:501:GDP:PA	2.35	0.50
46:MJ:22:GLU:HG2	46:MJ:81:PHE:CD2	2.47	0.50
46:MJ:396:HIS:HA	46:MJ:399:THR:OG1	2.12	0.50
46:MN:330:MET:HE2	46:MN:349:ILE:HG21	1.92	0.50
45:NC:195:LEU:O	45:NC:266:HIS:NE2	2.38	0.50
46:NN:47:ILE:HG22	46:NN:51:TYR:HB2	1.93	0.50
46:NN:372:THR:HA	46:NN:422:TYR:CE1	2.45	0.50
45:OA:101:ASN:HA	45:OA:144:GLY:N	2.27	0.50
45:OE:52:PHE:CZ	45:OE:239:THR:HG21	2.46	0.50
46:OF:200:MET:CE	46:OF:268:ILE:HG23	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OG:7:ILE:HD13	45:OG:153:LEU:HD21	1.94	0.50
46:OH:148:GLY:O	46:OH:152:ILE:HG12	2.12	0.50
45:OI:9:VAL:HG13	45:OI:139:ASN:HB3	1.93	0.50
45:OI:153:LEU:O	45:OI:157:LEU:HD23	2.11	0.50
46:OJ:304:ASP:HB3	46:OJ:307:HIS:ND1	2.26	0.50
46:OL:296:ALA:HB3	46:OL:306:ARG:CZ	2.42	0.50
45:PC:96:LYS:HE3	46:PD:129:CYS:SG	2.52	0.50
46:PD:148:GLY:O	46:PD:152:ILE:HG13	2.12	0.50
46:PD:294:PHE:HD2	46:PD:333:VAL:HG21	1.77	0.50
45:PI:194:LEU:O	45:PI:198:THR:HG22	2.11	0.50
46:PL:8:GLN:HG3	46:PL:14:ASN:ND2	2.27	0.50
46:PN:16:ILE:HD13	46:PN:226:ASN:OD1	2.12	0.50
45:QC:208:ALA:O	45:QC:212:ILE:HG12	2.11	0.50
45:QG:239:THR:HG23	45:QG:243:ARG:HH21	1.76	0.50
46:QH:399:THR:HA	46:QH:403:MET:HB2	1.92	0.50
45:QI:278:ALA:HA	45:QI:369:ALA:HB2	1.94	0.50
45:QI:311:LYS:O	45:QI:381:SER:OG	2.21	0.50
45:RA:239:THR:OG1	45:RA:243:ARG:NH2	2.42	0.50
46:RB:67:ASP:O	46:RB:92:PHE:HA	2.12	0.50
46:RB:113:ILE:HG12	46:RB:117:LEU:HG	1.94	0.50
46:RD:10:GLY:O	46:RD:14:ASN:ND2	2.45	0.50
46:RF:66:MET:HA	46:RF:91:VAL:HG23	1.94	0.50
46:RF:312:THR:HG22	46:RF:370:ASN:HB3	1.92	0.50
45:RG:60:LYS:HD2	45:SG:283:HIS:HA	1.93	0.50
45:RI:87:PHE:HD2	45:RI:92:LEU:HD21	1.76	0.50
45:SC:109:THR:HG22	45:SC:110:ILE:HG23	1.93	0.50
45:SK:396:ASP:HA	45:SK:422:ARG:HH22	1.76	0.50
46:TB:318:ARG:HG2	46:TB:357:PRO:HA	1.94	0.50
46:TD:87:PRO:HA	46:TD:90:PHE:CD2	2.47	0.50
46:TF:164:MET:H	46:TF:197:ASP:HB2	1.76	0.50
45:TI:55:GLU:HG3	45:TI:57:GLY:H	1.77	0.50
46:TL:21:TRP:CZ3	46:TL:61:PRO:HB3	2.46	0.50
45:TM:60:LYS:HE3	45:UM:283:HIS:HA	1.93	0.50
45:TM:229:ARG:HH21	45:TM:368:LEU:HB3	1.76	0.50
46:TN:309:ARG:NH2	46:TN:426:GLN:O	2.37	0.50
46:UB:287:PRO:HG3	46:UB:329:GLN:NE2	2.26	0.50
45:UC:36:MET:SD	45:UC:61:HIS:NE2	2.82	0.50
46:UD:229:VAL:O	46:UD:233:MET:HG2	2.12	0.50
45:UE:172:TYR:HD2	45:UE:173:PRO:HD2	1.77	0.50
45:UE:221:ARG:N	45:UE:222:PRO:HD3	2.27	0.50
46:UF:324:LYS:HG2	45:UG:221:ARG:NH2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UH:102:ALA:HA	46:UH:403:MET:HE1	1.93	0.50
45:UI:156:ARG:NE	45:UI:156:ARG:HA	2.27	0.50
46:UL:304:ASP:HB3	46:UL:307:HIS:ND1	2.26	0.50
45:UM:431:ASP:O	45:UM:435:VAL:HG22	2.12	0.50
45:VA:317:MET:HB3	45:VA:319:TYR:CE2	2.47	0.50
45:VA:338:LYS:HZ3	45:VA:341:ILE:HG13	1.76	0.50
46:VH:370:ASN:OD1	46:VH:422:TYR:OH	2.28	0.50
45:VI:268:MET:HB2	45:VI:379:SER:O	2.11	0.50
45:VM:221:ARG:HH22	46:VN:321:MET:HB2	1.76	0.50
45:WA:67:PHE:HB2	45:WA:92:LEU:HD13	1.93	0.50
45:WA:172:TYR:HD1	45:WA:173:PRO:HD2	1.77	0.50
45:WC:221:ARG:NH2	46:WD:321:MET:HB3	2.27	0.50
46:WD:337:ASN:OD1	46:WD:340:TYR:HB2	2.12	0.50
45:WE:70:LEU:O	46:WF:2:ARG:NH2	2.44	0.50
45:WI:98:ASP:OD1	45:WI:99:ALA:N	2.44	0.50
45:WK:21:TRP:CZ2	45:WK:65:ALA:HB2	2.47	0.50
45:WK:287:SER:O	45:WK:291:ILE:HG12	2.12	0.50
7:1G:164:PRO:HD3	45:KA:245:ASP:OD2	2.11	0.50
9:1N:247:GLN:HA	46:KJ:74:ASP:OD1	2.12	0.50
10:1Q:36:ARG:CZ	35:4S:204:ILE:HG23	2.41	0.50
9:2N:249:LEU:HD21	46:KB:90:PHE:CD1	2.47	0.50
34:4R:315:MET:O	46:CF:359:LYS:NZ	2.45	0.50
41:6H:241:LEU:HD13	41:6H:243:LYS:HZ1	1.76	0.50
10:6Q:35:LYS:O	10:6Q:48:GLU:HG3	2.12	0.50
34:6R:318:TYR:HB3	34:6R:321:MET:HB3	1.94	0.50
46:AB:262:ARG:NH2	46:AB:425:TYR:OH	2.45	0.50
46:AD:97:ALA:HA	46:AD:103:LYS:HD2	1.93	0.50
45:AI:340:THR:HG23	45:AI:341:ILE:HG13	1.93	0.50
46:AL:156:ARG:NH2	46:AL:197:ASP:OD2	2.44	0.50
45:AM:208:ALA:O	45:AM:212:ILE:HG12	2.11	0.50
45:BA:105:ARG:NH2	45:BA:411:GLU:HB3	2.27	0.50
46:BB:42:LEU:HA	46:BB:45:GLU:HG3	1.92	0.50
45:BC:115:VAL:HG11	45:BC:152:LEU:HD23	1.93	0.50
46:BJ:139:LEU:HD13	46:BJ:168:SER:HB3	1.94	0.50
45:BK:183:GLU:N	45:BK:184:PRO:HD2	2.27	0.50
45:CA:256:GLN:NE2	45:CA:257:THR:HG23	2.27	0.50
45:CC:136:LEU:HD13	45:CC:167:LEU:HB2	1.94	0.50
46:CF:19:LYS:NZ	46:CF:227:HIS:HB2	2.27	0.50
45:CM:208:ALA:HB2	45:CM:304:LYS:HG3	1.93	0.50
45:DA:387:VAL:HA	45:DA:390:ARG:HG2	1.94	0.50
46:DF:105:HIS:CE1	46:DF:150:LEU:HD13	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DL:252:LYS:O	46:DL:256:ASN:CB	2.58	0.50
46:DN:87:PRO:HA	46:DN:90:PHE:HD2	1.77	0.50
46:DN:135:ILE:HG13	46:DN:152:ILE:HD11	1.94	0.50
45:EA:183:GLU:N	45:EA:184:PRO:HD2	2.27	0.50
46:ED:405:GLU:HA	46:ED:408:PHE:HD2	1.76	0.50
46:EH:139:LEU:HD22	46:EH:170:VAL:HG12	1.93	0.50
45:EI:377:MET:SD	45:EI:379:SER:HB3	2.52	0.50
45:FA:126:ALA:HB1	45:FA:132:LEU:HD21	1.94	0.50
46:FH:3:GLU:OE1	46:FH:3:GLU:N	2.41	0.50
45:FK:222:PRO:HD2	46:FL:324:LYS:CD	2.37	0.50
46:GB:58:ARG:HH22	46:GB:86:ARG:NH1	2.09	0.50
45:GC:21:TRP:CZ2	45:GC:65:ALA:HB2	2.46	0.50
46:GD:73:MET:HA	46:GD:76:VAL:HG12	1.94	0.50
45:GM:55:GLU:HG3	45:GM:57:GLY:H	1.77	0.50
45:HC:268:MET:HG2	45:HC:378:ILE:HD11	1.93	0.50
46:HN:178:THR:HB	46:HN:181:GLU:HG3	1.93	0.50
45:IE:141:VAL:HG11	45:IE:172:TYR:HD1	1.77	0.50
45:II:167:LEU:HG	45:II:200:VAL:HB	1.93	0.50
45:IK:268:MET:N	45:IK:268:MET:SD	2.85	0.50
46:IL:180:VAL:HG12	46:IL:180:VAL:O	2.12	0.50
46:JB:275:SER:O	46:JB:279:GLN:HG3	2.12	0.50
45:JG:211:ASP:HB3	45:JG:215:ARG:HH22	1.77	0.50
46:JH:156:ARG:NH2	46:JH:197:ASP:OD1	2.45	0.50
46:KB:77:ARG:NH1	46:KB:82:GLY:O	2.45	0.50
46:KD:200:MET:HG3	46:KD:266:PHE:HB2	1.92	0.50
45:KG:309:HIS:HA	45:NG:282:TYR:HE2	1.77	0.50
45:KG:387:VAL:HG12	45:KG:390:ARG:HH22	1.76	0.50
45:LE:167:LEU:HG	45:LE:200:VAL:HB	1.94	0.50
46:LH:303:ALA:H	46:LH:377:MET:HE1	1.77	0.50
46:LL:74:ASP:HA	46:LL:77:ARG:NE	2.26	0.50
46:MH:131:GLN:HE22	46:MH:250:LEU:HB2	1.77	0.50
45:MI:353:VAL:HG12	46:ML:177:ASP:HB2	1.94	0.50
45:NC:76:ASP:HB3	45:NC:79:ARG:HH21	1.77	0.50
45:NC:226:ASN:ND2	45:NC:367:ASP:OD2	2.45	0.50
45:NG:297:GLU:HB3	45:NG:300:ASN:HB2	1.93	0.50
46:NL:203:ASP:HB2	46:NL:301:CYS:HA	1.93	0.50
46:OB:203:ASP:O	46:OB:207:LEU:HG	2.12	0.50
46:OD:289:LEU:O	46:OD:293:MET:HG3	2.12	0.50
45:OG:203:MET:HG3	45:OG:384:ILE:HD11	1.94	0.50
45:OM:164:LYS:O	45:OM:166:LYS:NZ	2.35	0.50
45:PA:319:TYR:CE2	45:PA:328:VAL:HG22	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PC:251:ASP:H	45:PC:254:GLU:CD	2.15	0.50
46:PH:318:ARG:HH11	46:PH:358:PRO:HG3	1.77	0.50
46:PJ:293:MET:HG2	46:PJ:365:VAL:HG11	1.94	0.50
46:PL:16:ILE:HD12	46:PL:229:VAL:HG11	1.93	0.50
45:QE:331:SER:O	45:QE:335:ILE:HG23	2.11	0.50
46:QF:173:PRO:HG2	46:QF:380:ARG:HD3	1.94	0.50
45:QG:52:PHE:HZ	45:QG:239:THR:HG21	1.76	0.50
46:QL:63:ALA:O	46:QL:89:ASN:ND2	2.44	0.50
46:QL:86:ARG:HH11	46:RL:282:ARG:NH1	2.09	0.50
46:QL:240:LEU:HD21	46:QL:249:ASP:HB3	1.94	0.50
46:QL:290:THR:HA	46:QL:293:MET:HG2	1.94	0.50
45:QM:56:THR:HG23	45:QM:58:ALA:H	1.77	0.50
45:RE:329:ASN:HA	45:RE:332:ILE:HG12	1.93	0.50
46:RF:375:GLN:HG3	46:RF:419:VAL:HG13	1.93	0.50
45:SA:288:VAL:HG11	45:SA:327:ASP:HB3	1.92	0.50
46:SB:51:TYR:HB3	46:SB:59:TYR:HB3	1.94	0.50
46:SD:6:HIS:HE1	46:SD:8:GLN:HG3	1.76	0.50
46:SD:6:HIS:CE1	46:SD:8:GLN:HG3	2.47	0.50
46:SD:407:GLU:HA	46:SD:410:GLU:OE2	2.12	0.50
46:SD:408:PHE:O	46:SD:412:GLU:OE1	2.29	0.50
45:SE:174:SER:OG	45:SE:207:GLU:HB2	2.12	0.50
45:SE:261:PRO:HB3	45:SE:346:TRP:HH2	1.76	0.50
46:SF:247:ASN:OD1	45:SG:11:GLN:NE2	2.44	0.50
46:SF:255:VAL:HA	45:SG:407:TRP:CZ3	2.46	0.50
46:SJ:42:LEU:HD12	46:SJ:42:LEU:H	1.77	0.50
46:SL:106:TYR:HE2	46:SL:403:MET:HB2	1.77	0.50
46:TB:310:TYR:HA	46:TB:371:SER:HA	1.93	0.50
45:TE:402:ARG:HH22	45:TE:406:HIS:HB3	1.76	0.50
46:TF:84:LEU:O	46:TF:86:ARG:NH2	2.44	0.50
46:TF:309:ARG:NH2	46:TF:426:GLN:O	2.34	0.50
45:TI:118:CYS:O	45:TI:122:ILE:HG12	2.12	0.50
45:TK:33:ASP:HA	45:TK:85:GLN:HE21	1.76	0.50
46:TL:31:ASP:OD2	46:TL:33:THR:OG1	2.30	0.50
46:TL:167:PHE:CE2	46:TL:233:MET:HG2	2.46	0.50
46:UH:276:ARG:NH2	46:UH:277:GLY:HA2	2.27	0.50
45:UI:156:ARG:HA	45:UI:156:ARG:HE	1.76	0.50
46:UJ:58:ARG:HH21	46:UJ:83:GLN:HE22	1.58	0.50
46:VH:326:VAL:O	46:VH:330:MET:HG2	2.11	0.50
46:VL:97:ALA:HB3	46:VL:143:THR:HB	1.94	0.50
45:VM:183:GLU:N	45:VM:184:PRO:HD2	2.26	0.50
45:WA:116:ASP:OD1	45:WA:117:LEU:HD12	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:223:THR:HG23	45:WA:225:THR:H	1.77	0.50
46:WB:309:ARG:NH1	46:WB:343:GLU:OE1	2.45	0.50
45:WC:183:GLU:N	45:WC:184:PRO:HD2	2.27	0.50
45:WI:256:GLN:O	46:WL:397:TRP:NE1	2.45	0.50
45:WK:115:VAL:HA	45:WK:118:CYS:SG	2.52	0.50
46:WN:130:LEU:HD21	46:WN:133:PHE:CE1	2.47	0.50
4:0D:6:ARG:NH1	46:CB:41:ASP:O	2.44	0.49
4:0D:39:PRO:HD2	45:DC:79:ARG:NH2	2.26	0.49
1:1A:137:GLN:NE2	45:AE:77:GLU:OE2	2.33	0.49
21:2L:524:ARG:NH1	46:BN:358:PRO:O	2.36	0.49
15:4X:86:ASP:HA	15:4X:89:ASN:HD22	1.77	0.49
36:5B:141:SER:HB3	36:5B:144:LYS:HG2	1.94	0.49
37:5G:123:ARG:HA	45:OI:370:LYS:HG3	1.94	0.49
34:7R:318:TYR:HE1	46:CB:273:LEU:HA	1.77	0.49
34:7R:487:GLU:HB3	34:7R:523:PHE:HZ	1.75	0.49
45:AA:17:GLY:HA2	45:AA:20:CYS:SG	2.51	0.49
46:AD:172:SER:HB2	46:AD:205:GLU:OE2	2.12	0.49
45:AM:387:VAL:O	45:AM:391:LEU:HG	2.12	0.49
45:BC:1:MET:HG3	45:BC:130:THR:HG23	1.94	0.49
46:BD:83:GLN:HE21	46:BD:84:LEU:HD12	1.77	0.49
46:BD:97:ALA:HB3	46:BD:143:THR:HB	1.94	0.49
45:BE:222:PRO:HG2	46:BF:324:LYS:CD	2.42	0.49
46:BH:173:PRO:HG3	46:BH:384:GLN:NE2	2.27	0.49
45:BM:93:ILE:HD11	45:BM:121:ARG:HG3	1.93	0.49
45:CA:288:VAL:HA	45:CA:291:ILE:HG12	1.94	0.49
45:CC:328:VAL:O	45:CC:332:ILE:HG12	2.12	0.49
46:CF:319:GLY:HA2	46:CF:357:PRO:HD3	1.93	0.49
45:CG:174:SER:HB2	45:CG:177:VAL:O	2.11	0.49
46:CN:262:ARG:NH1	46:CN:421:GLU:OE1	2.45	0.49
45:DA:203:MET:HE1	45:DA:267:PHE:HD2	1.77	0.49
45:DA:268:MET:HB2	45:DA:379:SER:O	2.11	0.49
45:DE:98:ASP:OD1	45:DE:99:ALA:N	2.45	0.49
45:DG:132:LEU:HD23	45:DG:164:LYS:HE2	1.93	0.49
46:DH:132:GLY:HA3	46:DH:163:ILE:HG22	1.93	0.49
46:DJ:266:PHE:HE1	46:DJ:370:ASN:HD22	1.59	0.49
45:DM:205:ASP:OD1	45:DM:303:ALA:HA	2.13	0.49
45:DM:244:PHE:HB2	45:DM:356:ASN:HD21	1.76	0.49
46:DN:16:ILE:HD12	46:DN:229:VAL:HG11	1.93	0.49
46:EF:230:SER:HA	46:EF:233:MET:HG2	1.94	0.49
45:EG:183:GLU:N	45:EG:184:PRO:HD2	2.27	0.49
45:EG:288:VAL:HA	45:EG:291:ILE:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EI:250:VAL:HG13	45:EI:254:GLU:HB2	1.94	0.49
46:EJ:254:ALA:O	46:EJ:258:ILE:HG12	2.12	0.49
45:FE:97:GLU:HG3	45:FE:105:ARG:HH12	1.77	0.49
46:FF:39:ASP:OD1	46:FF:40:SER:N	2.44	0.49
46:FF:67:ASP:OD2	46:FF:68:LEU:N	2.45	0.49
46:FH:8:GLN:HE22	46:FH:17:GLY:HA3	1.77	0.49
45:FI:21:TRP:CZ2	45:FI:65:ALA:HB2	2.47	0.49
45:GE:183:GLU:N	45:GE:184:PRO:HD2	2.27	0.49
45:GG:28:HIS:CE1	45:GG:243:ARG:HD2	2.47	0.49
46:GH:39:ASP:OD1	46:GH:40:SER:N	2.44	0.49
45:GI:224:TYR:HE2	46:GJ:246:LEU:HD11	1.76	0.49
46:GJ:148:GLY:O	46:GJ:152:ILE:HG12	2.12	0.49
45:GK:183:GLU:N	45:GK:184:PRO:HD2	2.27	0.49
45:HG:195:LEU:HD21	45:HG:264:ARG:HE	1.76	0.49
46:HL:139:LEU:HD12	46:HL:170:VAL:HG12	1.94	0.49
46:HN:156:ARG:HH12	46:HN:160:PRO:HA	1.77	0.49
46:HN:232:ALA:HB1	46:HN:268:ILE:HD12	1.94	0.49
45:IA:174:SER:HB2	45:IA:177:VAL:O	2.12	0.49
45:IC:288:VAL:HA	45:IC:291:ILE:HG12	1.93	0.49
46:IF:297:LYS:HD2	46:IF:297:LYS:H	1.76	0.49
45:IG:183:GLU:N	45:IG:184:PRO:HD2	2.26	0.49
45:II:3:GLU:HG3	45:II:129:CYS:SG	2.52	0.49
45:IM:175:PRO:HA	45:IM:390:ARG:NE	2.27	0.49
46:IN:406:MET:O	46:IN:410:GLU:HG2	2.11	0.49
46:JD:130:LEU:HB2	46:JD:162:ARG:NH1	2.26	0.49
45:JE:115:VAL:HG11	45:JE:152:LEU:HD23	1.94	0.49
45:JE:170:THR:HG1	45:JE:172:TYR:HE2	1.59	0.49
46:JF:69:GLU:OE2	46:JF:72:THR:N	2.45	0.49
45:JI:183:GLU:N	45:JI:184:PRO:HD2	2.27	0.49
45:JI:310:GLY:HA3	45:JI:383:ALA:HB2	1.94	0.49
45:JM:183:GLU:N	45:JM:184:PRO:HD2	2.26	0.49
45:KA:68:LEU:HD23	45:KA:93:ILE:HB	1.93	0.49
45:KA:140:SER:HA	45:KA:171:ILE:HB	1.94	0.49
46:KB:51:TYR:HB3	46:KB:59:TYR:HB3	1.93	0.49
45:KK:276:ILE:HG23	45:KK:280:LYS:HB3	1.92	0.49
46:KL:63:ALA:O	46:KL:89:ASN:ND2	2.44	0.49
45:LE:407:TRP:CH2	46:LF:258:ILE:HG13	2.46	0.49
45:LI:405:VAL:O	45:LI:409:VAL:HG23	2.12	0.49
46:MF:139:LEU:HD22	46:MF:170:VAL:HG12	1.94	0.49
45:MG:254:GLU:O	45:MG:255:PHE:HD2	1.95	0.49
45:MI:296:PHE:HE2	45:MI:335:ILE:HG21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MJ:418:LEU:HD12	46:MJ:421:GLU:OE1	2.12	0.49
45:NA:417:GLU:OE1	45:NA:417:GLU:N	2.45	0.49
45:NI:265:ILE:HG12	45:NI:432:TYR:HE1	1.77	0.49
46:NL:299:MET:HG3	46:NL:305:PRO:HG3	1.92	0.49
46:NN:67:ASP:OD1	46:NN:68:LEU:N	2.43	0.49
45:OC:257:THR:HG22	46:OF:397:TRP:CZ3	2.47	0.49
46:OD:230:SER:HA	46:OD:233:MET:HE2	1.94	0.49
45:OG:141:VAL:HG11	45:OG:172:TYR:CD1	2.47	0.49
45:OG:298:PRO:HA	45:OG:301:MET:HE1	1.94	0.49
45:OI:210:TYR:CZ	46:OJ:324:LYS:HG2	2.47	0.49
46:OJ:332:ASN:O	46:OJ:336:LYS:HG2	2.12	0.49
45:OM:167:LEU:HD23	45:OM:200:VAL:HB	1.94	0.49
46:PD:105:HIS:NE2	46:PD:150:LEU:HB3	2.27	0.49
45:PG:292:THR:HG21	45:PG:331:SER:HB3	1.94	0.49
46:PH:186:THR:HA	46:PH:189:VAL:HG12	1.94	0.49
46:PJ:21:TRP:HA	46:PJ:24:ILE:HG22	1.94	0.49
46:PL:210:ILE:HD13	46:PL:298:ASN:HA	1.93	0.49
45:QA:261:PRO:HB2	45:QA:262:TYR:HD1	1.77	0.49
46:QB:284:LEU:HD11	46:QB:362:LYS:HB3	1.92	0.49
46:QD:5:VAL:HG11	46:QD:123:GLU:OE1	2.11	0.49
46:QD:167:PHE:CE1	46:QD:233:MET:HG3	2.47	0.49
46:QD:324:LYS:NZ	46:QD:325:GLU:OE1	2.45	0.49
45:QE:296:PHE:HE1	45:QE:377:MET:SD	2.35	0.49
46:QF:169:VAL:HG12	46:QF:202:ILE:HB	1.94	0.49
46:QJ:11:GLN:NE2	49:QJ:501:GDP:O3B	2.43	0.49
46:QJ:31:ASP:OD2	46:QJ:34:GLY:N	2.45	0.49
45:QK:434:GLU:O	45:QK:437:ILE:HG12	2.12	0.49
46:QL:11:GLN:O	46:QL:15:GLN:HG2	2.11	0.49
45:QM:269:LEU:HD23	45:QM:379:SER:O	2.12	0.49
46:QN:3:GLU:HG3	46:QN:62:ARG:NH1	2.26	0.49
46:RD:396:HIS:HA	46:RD:399:THR:OG1	2.11	0.49
46:RF:32:PRO:HB3	46:RF:81:PHE:HD1	1.77	0.49
45:RG:316:SER:HA	45:RG:352:LYS:HB2	1.93	0.49
46:RL:121:ARG:HH22	46:SL:336:LYS:HE3	1.76	0.49
46:RL:154:LYS:NZ	46:RL:158:GLU:OE1	2.34	0.49
45:RM:294:SER:O	45:RM:297:GLU:HG2	2.12	0.49
45:SC:242:LEU:HD11	45:SC:252:ILE:HG12	1.93	0.49
46:SD:6:HIS:CE1	46:SD:8:GLN:NE2	2.80	0.49
45:SE:85:GLN:CD	45:SE:85:GLN:H	2.14	0.49
46:SH:86:ARG:HG2	46:SH:86:ARG:HH11	1.76	0.49
46:SJ:121:ARG:HH12	46:TJ:336:LYS:NZ	2.08	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TG:206:ASN:OD1	47:TG:501:GTP:N2	2.45	0.49
46:TH:372:THR:HA	46:TH:422:TYR:CE2	2.44	0.49
45:TM:183:GLU:N	45:TM:184:PRO:HD2	2.26	0.49
46:TN:58:ARG:HH21	46:UN:281:TYR:HA	1.76	0.49
46:UB:87:PRO:HA	46:UB:90:PHE:CD2	2.47	0.49
45:UI:207:GLU:HB3	45:UI:304:LYS:NZ	2.27	0.49
45:UM:384:ILE:O	45:UM:387:VAL:HG22	2.12	0.49
46:VB:325:GLU:HA	46:VB:328:GLU:HG3	1.93	0.49
45:VE:17:GLY:HA2	45:VE:20:CYS:SG	2.52	0.49
45:VG:152:LEU:O	45:VG:156:ARG:HG2	2.12	0.49
45:VI:71:GLU:OE2	45:VI:73:THR:OG1	2.19	0.49
46:VJ:73:MET:CE	46:VJ:92:PHE:HB3	2.41	0.49
45:VM:101:ASN:HA	45:VM:144:GLY:H	1.76	0.49
45:WA:182:VAL:HG22	45:WA:185:TYR:HB2	1.94	0.49
45:WC:329:ASN:HA	45:WC:332:ILE:HG12	1.93	0.49
46:WF:148:GLY:O	46:WF:152:ILE:HG12	2.12	0.49
45:WI:183:GLU:N	45:WI:184:PRO:HD2	2.27	0.49
45:WI:345:ASP:OD1	45:WI:346:TRP:N	2.45	0.49
45:WM:268:MET:SD	45:WM:378:ILE:HG23	2.52	0.49
14:1V:96:ASN:ND2	46:LJ:262:ARG:HB2	2.27	0.49
20:2K:315:ARG:NH1	45:GI:372:MET:HB3	2.28	0.49
21:2L:359:LYS:HG3	34:6R:177:VAL:HG23	1.93	0.49
34:5R:92:VAL:HG12	34:5R:121:TYR:HA	1.93	0.49
35:5S:107:GLU:CD	35:5S:110:ARG:HH22	2.15	0.49
40:6G:118:LYS:NZ	46:UJ:121:ARG:HE	2.10	0.49
40:6G:220:LEU:O	40:6G:224:LEU:HD23	2.13	0.49
41:6H:219:THR:O	46:FD:320:ARG:NH1	2.46	0.49
46:AB:86:ARG:HD3	46:AB:87:PRO:HD2	1.95	0.49
46:AJ:4:ILE:HG13	46:AJ:132:GLY:O	2.12	0.49
46:AJ:294:PHE:HE2	46:AJ:333:VAL:HG11	1.77	0.49
45:BA:141:VAL:HG22	45:BA:187:SER:HA	1.94	0.49
46:BD:345:ILE:O	46:BD:345:ILE:HG13	2.11	0.49
46:BF:267:MET:HG3	46:BF:299:MET:SD	2.52	0.49
46:BL:86:ARG:NH1	46:CJ:281:TYR:O	2.44	0.49
45:BM:175:PRO:HG3	45:BM:390:ARG:CD	2.42	0.49
45:BM:183:GLU:N	45:BM:184:PRO:HD2	2.27	0.49
45:CC:293:ASN:O	45:CC:297:GLU:HG2	2.12	0.49
46:CD:258:ILE:HD11	45:CE:407:TRP:HZ2	1.77	0.49
46:CJ:226:ASN:HD21	49:CJ:501:GDP:HN1	1.59	0.49
46:CL:213:ARG:HB3	46:CL:297:LYS:NZ	2.26	0.49
46:CN:87:PRO:HA	46:CN:90:PHE:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DB:252:LYS:HA	45:DC:100:ALA:HB1	1.94	0.49
45:DE:288:VAL:HA	45:DE:291:ILE:HG12	1.94	0.49
46:DF:145:SER:HB2	46:DF:188:SER:HB3	1.94	0.49
45:EA:103:PHE:H	45:EA:408:TYR:HE2	1.59	0.49
45:EE:11:GLN:NE2	47:EE:501:GTP:O1A	2.45	0.49
46:EF:67:ASP:OD1	46:EF:68:LEU:N	2.43	0.49
46:EH:21:TRP:CZ3	46:EH:61:PRO:HB3	2.46	0.49
46:EH:317:PHE:CD1	46:EH:365:VAL:HG22	2.47	0.49
46:EL:99:ASN:HA	46:EL:142:GLY:H	1.77	0.49
46:EL:163:ILE:HG21	46:EL:250:LEU:HD22	1.94	0.49
45:FC:98:ASP:OD2	45:FC:99:ALA:N	2.46	0.49
46:FD:20:PHE:CD2	46:FD:21:TRP:CD1	3.00	0.49
46:FL:201:VAL:HG13	46:FL:301:CYS:SG	2.52	0.49
45:GA:71:GLU:OE1	46:GB:247:ASN:ND2	2.45	0.49
45:GC:72:PRO:HD2	46:GD:2:ARG:HH21	1.77	0.49
46:GD:10:GLY:O	46:GD:14:ASN:ND2	2.44	0.49
46:GD:164:MET:HB3	46:GD:197:ASP:HB2	1.93	0.49
45:GE:117:LEU:O	45:GE:121:ARG:HG2	2.12	0.49
45:GI:21:TRP:CZ2	45:GI:65:ALA:HB2	2.47	0.49
46:GJ:39:ASP:OD2	46:GJ:40:SER:N	2.44	0.49
45:GM:89:PRO:HG2	45:HM:280:LYS:HE2	1.94	0.49
46:HB:344:TRP:CE3	46:HB:345:ILE:HG23	2.47	0.49
45:HI:71:GLU:OE2	46:HJ:2:ARG:NH2	2.40	0.49
45:HI:72:PRO:HD2	46:HJ:2:ARG:NH2	2.27	0.49
46:HJ:178:THR:HG22	46:HJ:180:VAL:H	1.77	0.49
46:HN:116:VAL:HA	46:HN:119:VAL:HG12	1.94	0.49
45:IC:241:SER:OG	45:IC:250:VAL:O	2.24	0.49
45:IC:336:LYS:HD3	45:IC:351:PHE:CE2	2.46	0.49
46:IF:350:LYS:NZ	46:IF:352:SER:OG	2.26	0.49
45:IG:74:VAL:O	45:IG:77:GLU:HG3	2.12	0.49
45:JA:265:ILE:O	45:JA:265:ILE:HG13	2.12	0.49
45:JC:135:PHE:HB2	45:JC:166:LYS:HG2	1.94	0.49
46:JD:215:LEU:HB3	46:JD:217:LEU:HD23	1.94	0.49
45:JE:292:THR:HG22	45:JE:335:ILE:HD11	1.92	0.49
45:JG:50:ASN:HA	45:JG:53:PHE:O	2.11	0.49
46:JJ:372:THR:HA	46:JJ:422:TYR:CE2	2.44	0.49
45:JM:27:GLU:HB3	45:JM:361:THR:HG21	1.94	0.49
46:KB:8:GLN:HE21	46:KB:14:ASN:HA	1.76	0.49
45:KE:10:GLY:O	45:KE:14:ILE:HG12	2.11	0.49
46:KF:191:GLN:O	46:KF:195:ASN:ND2	2.45	0.49
46:KF:286:VAL:HG21	46:KF:325:GLU:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KG:246:GLY:HA2	45:KG:357:TYR:CD2	2.47	0.49
45:KI:56:THR:O	45:LI:285:GLN:HA	2.12	0.49
46:KJ:20:PHE:HA	46:KJ:230:SER:OG	2.12	0.49
46:KJ:22:GLU:HG2	46:KJ:81:PHE:CE1	2.47	0.49
45:KK:390:ARG:O	45:KK:394:LYS:HG2	2.11	0.49
45:KM:49:PHE:CD2	45:KM:53:PHE:HB2	2.47	0.49
45:LA:204:LEU:HD13	45:LA:231:ILE:HD12	1.94	0.49
45:LA:371:VAL:HG22	45:LA:373:ARG:H	1.76	0.49
45:LC:183:GLU:N	45:LC:184:PRO:HD2	2.27	0.49
46:LH:165:GLU:HG2	46:LH:250:LEU:HD21	1.94	0.49
45:LI:250:VAL:HB	45:LI:352:LYS:HZ1	1.77	0.49
46:LJ:133:PHE:HB2	46:LJ:164:MET:SD	2.51	0.49
46:LN:293:MET:SD	46:LN:367:PHE:HB2	2.52	0.49
45:MC:174:SER:HB3	45:MC:177:VAL:O	2.12	0.49
46:ML:187:LEU:HD11	46:ML:408:PHE:CE1	2.47	0.49
45:NA:224:TYR:HD1	47:NA:501:GTP:C6	2.29	0.49
46:NF:105:HIS:CE1	46:NF:150:LEU:HD12	2.46	0.49
46:NJ:407:GLU:O	46:NJ:410:GLU:HG3	2.12	0.49
45:NK:97:GLU:HB2	46:NL:2:ARG:HH21	1.75	0.49
45:NK:326:LYS:HG3	45:NK:327:ASP:N	2.27	0.49
46:OB:64:ILE:HG13	46:OB:89:ASN:ND2	2.27	0.49
46:OD:135:ILE:HG13	46:OD:152:ILE:HD11	1.93	0.49
46:OD:245:GLN:HB3	46:OD:353:ILE:HB	1.94	0.49
45:OG:352:LYS:HZ1	46:OJ:178:THR:HG23	1.77	0.49
45:OI:255:PHE:O	45:OI:259:LEU:HG	2.12	0.49
46:OJ:178:THR:HB	46:OJ:181:GLU:HG3	1.94	0.49
46:OL:222:TYR:HD2	49:OL:501:GDP:C6	2.30	0.49
46:ON:70:PRO:HG3	46:ON:92:PHE:CD2	2.47	0.49
46:ON:130:LEU:HD21	46:ON:133:PHE:HE2	1.77	0.49
46:ON:150:LEU:O	46:ON:154:LYS:HG2	2.12	0.49
45:PE:239:THR:HG23	45:PE:243:ARG:HE	1.78	0.49
46:PH:67:ASP:O	46:PH:92:PHE:HA	2.13	0.49
46:PJ:7:ILE:HG22	46:PJ:64:ILE:HD13	1.94	0.49
46:PJ:86:ARG:HD3	46:QH:281:TYR:HD1	1.78	0.49
46:PJ:190:HIS:CE1	46:PJ:414:ASN:HD22	2.30	0.49
46:QB:86:ARG:HD2	46:RB:281:TYR:HB2	1.93	0.49
45:QC:288:VAL:HA	45:QC:291:ILE:HG12	1.94	0.49
45:QE:166:LYS:N	45:QE:199:ASP:OD2	2.38	0.49
45:QM:288:VAL:HG11	45:QM:327:ASP:HB3	1.93	0.49
45:RC:90:GLU:OE2	45:SC:280:LYS:NZ	2.33	0.49
46:RF:117:LEU:HD22	46:RF:154:LYS:HD3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RL:16:ILE:HG21	46:RL:136:THR:HG21	1.94	0.49
45:SA:183:GLU:N	45:SA:184:PRO:HD2	2.27	0.49
46:SF:324:LYS:HE3	45:SG:214:ARG:CD	2.41	0.49
46:SH:117:LEU:HD11	46:SH:154:LYS:HZ1	1.77	0.49
46:SJ:229:VAL:HG12	46:SJ:233:MET:HE2	1.94	0.49
46:SJ:237:THR:HG23	46:SJ:241:ARG:HH21	1.77	0.49
46:TF:274:THR:HG23	46:TF:279:GLN:OE1	2.12	0.49
46:TL:30:ILE:HD11	46:TL:47:ILE:HD11	1.94	0.49
46:TL:346:PRO:HD2	45:TM:398:MET:HE2	1.94	0.49
45:UA:206:ASN:OD1	47:UA:501:GTP:N2	2.45	0.49
46:UB:229:VAL:O	46:UB:233:MET:HG2	2.12	0.49
46:UD:248:SER:HA	46:UD:252:LYS:HG3	1.93	0.49
45:UG:324:VAL:HG12	45:UG:326:LYS:HG2	1.94	0.49
46:UH:267:MET:SD	46:UH:374:ILE:HG22	2.52	0.49
46:UJ:341:PHE:CE2	46:UJ:349:ILE:HD11	2.46	0.49
46:UL:87:PRO:HA	46:UL:90:PHE:CD2	2.47	0.49
46:VB:132:GLY:CA	46:VB:163:ILE:O	2.54	0.49
46:VB:154:LYS:HA	46:VB:157:GLU:OE1	2.12	0.49
45:VC:268:MET:HB2	45:VC:379:SER:O	2.12	0.49
45:VE:88:HIS:O	45:VE:91:GLN:HG2	2.11	0.49
45:VG:318:MET:SD	45:VG:320:ARG:HB3	2.53	0.49
46:VH:16:ILE:HD12	46:VH:229:VAL:HG11	1.93	0.49
46:VH:116:VAL:HA	46:VH:119:VAL:HG12	1.94	0.49
45:VI:21:TRP:CZ2	45:VI:65:ALA:HB2	2.47	0.49
46:VJ:107:THR:OG1	46:VJ:108:GLU:OE1	2.21	0.49
46:VL:201:VAL:O	46:VL:202:ILE:HD13	2.11	0.49
45:VM:96:LYS:HE3	46:VN:129:CYS:HB2	1.94	0.49
45:WA:387:VAL:HA	45:WA:390:ARG:HG2	1.94	0.49
45:WC:210:TYR:CZ	46:WD:324:LYS:HD2	2.47	0.49
45:WI:288:VAL:HA	45:WI:291:ILE:HG12	1.94	0.49
45:WM:88:HIS:HB3	45:WM:91:GLN:HG2	1.94	0.49
45:WM:121:ARG:HA	45:WM:124:LYS:NZ	2.27	0.49
45:WM:210:TYR:HE1	45:WM:227:LEU:HD11	1.77	0.49
46:WN:16:ILE:HD12	46:WN:229:VAL:HG11	1.94	0.49
45:CE:255:PHE:O	45:CE:259:LEU:HB2	2.12	0.49
14:0V:69:SER:OG	46:MN:336:LYS:O	2.21	0.49
37:5F:11:TRP:CZ2	46:ND:57:GLY:HA3	2.47	0.49
37:5F:104:MET:HG3	37:5F:105:LYS:H	1.77	0.49
45:AE:294:SER:HA	45:AE:297:GLU:OE1	2.12	0.49
45:BC:221:ARG:NH1	46:BD:325:GLU:HG3	2.27	0.49
45:BI:183:GLU:N	45:BI:184:PRO:HD2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:271:SER:HA	45:BK:302:MET:HG2	1.93	0.49
46:BL:7:ILE:HB	46:BL:135:ILE:HG12	1.93	0.49
45:BM:171:ILE:O	45:BM:171:ILE:HG13	2.12	0.49
46:CB:207:LEU:HB3	46:CB:225:LEU:HD22	1.94	0.49
45:CC:5:ILE:HD12	45:CC:135:PHE:HE1	1.77	0.49
46:CD:16:ILE:HD13	46:CD:226:ASN:OD1	2.13	0.49
46:CD:166:THR:HG21	46:CD:192:LEU:HD11	1.94	0.49
46:CD:173:PRO:HD2	46:CD:174:LYS:HZ1	1.78	0.49
46:CD:258:ILE:HD11	45:CE:407:TRP:CZ2	2.47	0.49
45:CK:5:ILE:O	45:CK:135:PHE:HA	2.11	0.49
46:DB:116:VAL:HA	46:DB:119:VAL:HG22	1.93	0.49
45:DK:208:ALA:O	45:DK:212:ILE:HG12	2.12	0.49
45:DK:326:LYS:HG3	45:DK:327:ASP:N	2.25	0.49
46:EJ:67:ASP:OD1	46:EJ:68:LEU:N	2.44	0.49
46:EL:213:ARG:CZ	46:EL:297:LYS:HD2	2.41	0.49
46:EN:68:LEU:HD12	46:EN:93:GLY:HA3	1.94	0.49
45:FC:265:ILE:HD13	45:FC:432:TYR:CE1	2.47	0.49
46:FD:4:ILE:HG13	46:FD:132:GLY:O	2.12	0.49
46:FD:310:TYR:CD1	46:FD:371:SER:HB3	2.46	0.49
45:FG:101:ASN:HA	45:FG:144:GLY:H	1.78	0.49
45:FK:205:ASP:CG	45:FK:304:LYS:H	2.15	0.49
45:FK:430:LYS:HA	45:FK:433:GLU:CD	2.33	0.49
46:FL:406:MET:O	46:FL:409:THR:N	2.44	0.49
46:FN:113:ILE:HD12	46:FN:154:LYS:HZ3	1.76	0.49
46:GD:9:GLY:HA2	46:GD:66:MET:O	2.12	0.49
45:GG:209:ILE:HD13	45:GG:302:MET:HG2	1.94	0.49
45:GG:328:VAL:O	45:GG:332:ILE:HG12	2.12	0.49
46:GJ:175:VAL:HG22	46:GJ:205:GLU:HB2	1.93	0.49
45:GK:205:ASP:OD1	45:GK:303:ALA:HA	2.12	0.49
45:HA:212:ILE:HD11	45:HA:300:ASN:HA	1.94	0.49
46:HD:342:VAL:HG13	46:HD:345:ILE:HG22	1.94	0.49
45:IA:3:GLU:O	45:IA:133:GLN:N	2.31	0.49
45:IA:311:LYS:HE3	45:IA:342:GLN:HG3	1.95	0.49
45:IA:356:ASN:OD1	45:IA:358:GLN:NE2	2.44	0.49
46:ID:41:ASP:OD1	46:ID:42:LEU:HD12	2.12	0.49
46:ID:221:THR:HG23	46:ID:224:ASP:H	1.76	0.49
46:IF:372:THR:HA	46:IF:422:TYR:CE2	2.46	0.49
45:IG:27:GLU:OE2	45:IG:243:ARG:NH1	2.35	0.49
46:IH:69:GLU:CD	46:IH:71:GLY:H	2.14	0.49
45:JM:214:ARG:HG2	45:JM:214:ARG:HH11	1.77	0.49
46:KB:69:GLU:OE1	46:KB:71:GLY:N	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KB:286:VAL:HG21	46:KB:325:GLU:HG3	1.94	0.49
45:KC:259:LEU:HB3	45:KC:268:MET:SD	2.52	0.49
46:KH:318:ARG:HH21	46:KH:358:PRO:HG3	1.76	0.49
45:KM:17:GLY:HA2	45:KM:20:CYS:SG	2.52	0.49
46:KN:206:ALA:O	46:KN:210:ILE:HG12	2.12	0.49
45:LK:185:TYR:O	45:LK:189:LEU:HG	2.12	0.49
46:MH:380:ARG:HA	46:MH:383:GLU:HG2	1.94	0.49
45:MM:265:ILE:O	45:MM:265:ILE:HG13	2.12	0.49
46:MN:202:ILE:HD11	46:MN:268:ILE:HD11	1.94	0.49
45:NA:258:ASN:ND2	45:NA:352:LYS:HE3	2.27	0.49
45:NC:105:ARG:HG2	45:NC:110:ILE:HG12	1.95	0.49
45:NG:210:TYR:CE1	45:NG:227:LEU:HD21	2.47	0.49
45:NI:237:SER:HA	45:NI:320:ARG:HH11	1.77	0.49
45:NI:343:PHE:HZ	45:NI:351:PHE:HE1	1.59	0.49
46:NJ:5:VAL:HA	46:NJ:62:ARG:HD3	1.94	0.49
46:NJ:270:PHE:HE1	46:NJ:364:ALA:HB1	1.78	0.49
46:NL:22:GLU:HG2	46:NL:81:PHE:CE1	2.46	0.49
46:NL:148:GLY:O	46:NL:152:ILE:HD12	2.11	0.49
46:NL:167:PHE:CE2	46:NL:233:MET:HG3	2.37	0.49
46:NL:178:THR:HB	46:NL:181:GLU:HG3	1.94	0.49
45:NM:9:VAL:HG13	45:NM:139:ASN:HB3	1.95	0.49
45:OA:17:GLY:HA2	45:OA:20:CYS:SG	2.51	0.49
46:OD:238:CYS:SG	46:OD:318:ARG:NE	2.85	0.49
46:OD:285:THR:O	46:OD:288:GLU:HG3	2.12	0.49
45:OG:252:ILE:HD12	45:OG:252:ILE:H	1.77	0.49
45:OG:324:VAL:HG12	45:OG:326:LYS:HG2	1.95	0.49
46:OJ:199:CYS:HB3	46:OJ:265:PHE:CD1	2.47	0.49
46:OL:211:CYS:HA	46:OL:215:LEU:HB2	1.94	0.49
45:OM:221:ARG:HH22	46:ON:324:LYS:HG2	1.77	0.49
46:PB:290:THR:HA	46:PB:293:MET:HG2	1.95	0.49
46:QB:235:GLY:O	46:QB:316:LEU:HD23	2.12	0.49
46:QB:313:ALA:HB1	46:QB:367:PHE:HE1	1.77	0.49
45:QE:332:ILE:O	45:QE:335:ILE:HG12	2.12	0.49
46:QH:45:GLU:O	46:QH:46:ARG:NH1	2.45	0.49
46:QH:258:ILE:HD11	45:QI:407:TRP:CZ2	2.47	0.49
45:QK:328:VAL:O	45:QK:332:ILE:HG12	2.12	0.49
45:QK:344:VAL:HG11	45:QK:346:TRP:CE2	2.47	0.49
46:QL:86:ARG:HH11	46:RL:282:ARG:HH12	1.58	0.49
46:RF:12:CYS:HA	46:RF:15:GLN:NE2	2.26	0.49
45:RI:87:PHE:CD2	45:RI:92:LEU:HD21	2.48	0.49
45:RI:259:LEU:HD12	45:RI:268:MET:HE3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:187:LEU:HD21	46:RJ:408:PHE:HE1	1.76	0.49
46:RJ:347:ASN:HD21	45:RK:178:SER:HB2	1.77	0.49
45:SC:208:ALA:O	45:SC:212:ILE:HG12	2.12	0.49
46:SD:238:CYS:HB2	46:SD:318:ARG:NH1	2.27	0.49
46:SF:232:ALA:O	46:SF:236:VAL:HG23	2.13	0.49
46:SF:258:ILE:HG13	45:SG:407:TRP:HZ2	1.77	0.49
45:SI:88:HIS:CE1	45:SI:90:GLU:HG2	2.47	0.49
45:SI:244:PHE:HB2	45:SI:356:ASN:HD21	1.78	0.49
46:SJ:375:GLN:OE1	46:SJ:379:LYS:NZ	2.44	0.49
45:SK:102:ASN:ND2	45:SK:105:ARG:HG3	2.27	0.49
45:TE:135:PHE:HB2	45:TE:166:LYS:HG3	1.95	0.49
46:TH:247:ASN:ND2	45:TI:71:GLU:OE1	2.45	0.49
45:TI:101:ASN:ND2	45:TI:143:GLY:HA2	2.27	0.49
46:TL:173:PRO:HG2	46:TL:380:ARG:NE	2.27	0.49
46:TL:334:GLN:HG3	46:TL:341:PHE:CD2	2.48	0.49
45:UE:257:THR:HG22	46:UF:397:TRP:CH2	2.47	0.49
46:UH:105:HIS:CE1	46:UH:150:LEU:HD12	2.46	0.49
46:UH:178:THR:HG22	46:UH:180:VAL:H	1.78	0.49
46:UH:248:SER:HA	46:UH:252:LYS:HD2	1.94	0.49
46:UN:135:ILE:HB	46:UN:166:THR:HA	1.94	0.49
45:VC:210:TYR:CD1	46:VD:324:LYS:HG3	2.46	0.49
46:VF:100:ASN:ND2	46:VF:102:ALA:HB3	2.27	0.49
46:VN:64:ILE:HA	46:VN:89:ASN:HB3	1.93	0.49
46:WJ:105:HIS:CE1	46:WJ:150:LEU:HD13	2.47	0.49
46:WJ:183:TYR:HE2	46:WJ:394:PHE:HB2	1.77	0.49
45:WK:177:VAL:HG22	46:WL:331:LEU:HD13	1.94	0.49
46:WN:49:VAL:HG23	46:WN:50:TYR:HD2	1.77	0.49
46:WN:282:ARG:NH2	46:WN:288:GLU:HB2	2.27	0.49
45:CE:272:TYR:HD2	45:CE:275:ILE:HD11	1.77	0.49
25:1R:25:VAL:HG12	45:MC:46:ASP:HA	1.95	0.49
1:2A:83:LEU:HG	34:5R:70:ARG:NH1	2.27	0.49
31:2I:138:VAL:HG22	46:GD:337:ASN:OD1	2.11	0.49
23:2O:311:LYS:HE2	45:VE:359:PRO:HG3	1.95	0.49
25:2R:29:LYS:HD2	45:MG:45:GLY:N	2.27	0.49
37:5E:81:MET:HG3	37:5E:96:TYR:HE2	1.76	0.49
37:5E:87:LEU:HD13	37:5E:92:GLN:HB3	1.95	0.49
37:5G:54:LYS:HA	46:OJ:227:HIS:CE1	2.47	0.49
37:5H:108:LYS:HA	37:5H:108:LYS:HE2	1.92	0.49
46:AB:139:LEU:HD22	46:AB:170:VAL:HG12	1.92	0.49
46:AF:229:VAL:HG12	46:AF:233:MET:HE2	1.94	0.49
45:AI:64:ARG:HH12	45:AI:128:ASN:HD22	1.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AK:35:GLN:HE22	45:AK:59:GLY:HA3	1.76	0.49
46:AL:103:LYS:HA	46:AL:107:THR:HG22	1.94	0.49
46:AL:151:LEU:HA	46:AL:154:LYS:NZ	2.27	0.49
45:BA:226:ASN:OD1	45:BA:227:LEU:N	2.45	0.49
46:BH:65:LEU:HD22	46:BH:90:PHE:CE1	2.48	0.49
46:BJ:132:GLY:HA3	46:BJ:163:ILE:O	2.13	0.49
45:BK:322:ASP:OD1	45:BK:373:ARG:NH1	2.45	0.49
46:BL:293:MET:HE2	46:BL:367:PHE:HD1	1.76	0.49
45:BM:69:ASP:O	45:BM:94:SER:HA	2.12	0.49
45:BM:119:LEU:HA	45:BM:122:ILE:HG22	1.93	0.49
45:CA:216:ASN:ND2	45:CA:275:ILE:O	2.43	0.49
45:CC:334:THR:O	45:CC:338:LYS:HG3	2.12	0.49
46:CF:201:VAL:HG23	46:CF:301:CYS:SG	2.52	0.49
45:CM:147:SER:HB2	45:CM:190:SER:HB3	1.95	0.49
45:CM:193:SER:O	45:CM:197:HIS:ND1	2.42	0.49
46:DF:31:ASP:HB2	46:DF:37:HIS:ND1	2.28	0.49
46:DH:318:ARG:HB3	46:DH:357:PRO:HA	1.94	0.49
46:DJ:318:ARG:HB2	46:DJ:364:ALA:HB3	1.94	0.49
45:DM:384:ILE:O	45:DM:387:VAL:HG22	2.12	0.49
45:EE:171:ILE:HA	45:EE:204:LEU:HB2	1.93	0.49
45:EI:183:GLU:N	45:EI:184:PRO:HD2	2.28	0.49
46:EL:207:LEU:HD13	46:EL:225:LEU:HB3	1.93	0.49
45:FC:265:ILE:HG13	45:FC:380:ASN:HD21	1.77	0.49
45:FE:80:THR:O	45:FE:84:ARG:NH2	2.45	0.49
46:GB:345:ILE:O	46:GB:345:ILE:HG13	2.13	0.49
46:GD:233:MET:O	46:GD:236:VAL:HG12	2.13	0.49
46:GH:287:PRO:HA	46:GH:290:THR:HG22	1.93	0.49
45:GK:56:THR:OG1	45:HK:282:TYR:O	2.30	0.49
46:GN:372:THR:HA	46:GN:422:TYR:HE2	1.77	0.49
45:HA:221:ARG:HD2	46:HB:322:SER:OG	2.12	0.49
46:HD:252:LYS:HG2	46:HD:350:LYS:NZ	2.27	0.49
46:IF:198:GLU:HG2	46:IF:266:PHE:HE2	1.76	0.49
46:IH:211:CYS:HA	46:IH:215:LEU:HD13	1.94	0.49
45:IM:169:PHE:CE2	45:IM:235:ILE:HD12	2.47	0.49
46:JH:203:ASP:OD1	46:JH:205:GLU:HG3	2.11	0.49
46:JJ:313:ALA:HB1	46:JJ:367:PHE:HE1	1.78	0.49
45:JK:183:GLU:N	45:JK:184:PRO:HD2	2.27	0.49
46:JL:167:PHE:CZ	46:JL:233:MET:HG3	2.47	0.49
45:JM:5:ILE:HG21	45:JM:122:ILE:HD11	1.94	0.49
45:JM:345:ASP:OD1	45:JM:346:TRP:N	2.45	0.49
46:KB:282:ARG:HH12	46:KB:288:GLU:HB3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KI:406:HIS:HA	45:KI:409:VAL:HG12	1.94	0.49
45:KM:307:PRO:HB2	45:KM:312:TYR:HE1	1.77	0.49
45:LE:407:TRP:CH2	46:LF:255:VAL:HA	2.47	0.49
46:LL:116:VAL:HA	46:LL:119:VAL:HG12	1.93	0.49
45:MA:183:GLU:N	45:MA:184:PRO:HD2	2.27	0.49
45:MA:407:TRP:CZ2	46:MB:258:ILE:HD11	2.43	0.49
46:ML:213:ARG:HE	46:ML:297:LYS:HZ1	1.59	0.49
45:NA:96:LYS:NZ	46:NB:129:CYS:SG	2.71	0.49
45:NA:183:GLU:N	45:NA:184:PRO:HD2	2.27	0.49
46:ND:113:ILE:HD13	46:ND:154:LYS:HZ1	1.76	0.49
45:NE:29:GLY:O	45:NE:40:LYS:NZ	2.44	0.49
46:NF:257:LEU:HD21	46:NF:368:VAL:HG13	1.94	0.49
45:NG:186:ASN:OD1	45:NG:187:SER:N	2.45	0.49
45:NI:141:VAL:HG22	45:NI:187:SER:HA	1.94	0.49
46:NJ:48:ASN:O	46:NJ:62:ARG:NH1	2.46	0.49
46:NJ:386:THR:OG1	46:NJ:390:ARG:NH2	2.45	0.49
45:NK:329:ASN:HD22	46:NN:175:VAL:HG12	1.75	0.49
45:OA:209:ILE:HD13	45:OA:302:MET:HG3	1.93	0.49
45:OE:121:ARG:HD2	45:OE:124:LYS:HZ1	1.77	0.49
46:OL:113:ILE:HD13	46:OL:150:LEU:HD21	1.93	0.49
45:OM:121:ARG:HD2	45:OM:124:LYS:HE3	1.94	0.49
45:PA:181:VAL:N	46:PB:350:LYS:HZ2	2.11	0.49
46:PF:238:CYS:SG	46:PF:239:CYS:N	2.85	0.49
45:PG:174:SER:HB3	45:PG:207:GLU:HG2	1.94	0.49
46:PH:344:TRP:HE3	46:PH:345:ILE:HG23	1.77	0.49
45:PI:3:GLU:HG2	45:PI:64:ARG:NH2	2.27	0.49
46:PJ:172:SER:HB2	46:PJ:380:ARG:HH12	1.76	0.49
45:PK:2:ARG:NH1	45:PK:242:LEU:HD22	2.27	0.49
45:PM:97:GLU:OE1	46:PN:131:GLN:NE2	2.45	0.49
45:QA:53:PHE:HB3	45:QA:61:HIS:HB3	1.93	0.49
45:QC:136:LEU:HD13	45:QC:167:LEU:HB2	1.95	0.49
46:QD:317:PHE:HB2	46:QD:353:ILE:HD13	1.94	0.49
45:QG:127:ASP:OD1	45:QG:128:ASN:N	2.46	0.49
45:QG:371:VAL:HG22	45:QG:373:ARG:H	1.77	0.49
46:QH:310:TYR:CD1	46:QH:371:SER:HB2	2.47	0.49
45:QI:265:ILE:HG12	45:QI:432:TYR:HE2	1.77	0.49
46:QL:87:PRO:HA	46:QL:90:PHE:CD2	2.44	0.49
46:RD:386:THR:O	46:RD:390:ARG:HG3	2.12	0.49
45:RG:183:GLU:N	45:RG:184:PRO:HD2	2.27	0.49
46:RH:133:PHE:HB2	46:RH:164:MET:HE1	1.93	0.49
46:RH:256:ASN:HB3	46:RH:257:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RK:183:GLU:N	45:RK:184:PRO:HD2	2.27	0.49
45:RK:292:THR:HG21	45:RK:331:SER:HB2	1.93	0.49
46:RL:1:MET:HG3	46:RL:2:ARG:HD3	1.94	0.49
45:SA:331:SER:O	45:SA:335:ILE:HG12	2.13	0.49
45:SC:103:PHE:H	45:SC:408:TYR:HE2	1.61	0.49
46:SD:3:GLU:HB2	46:SD:127:CYS:SG	2.53	0.49
45:SE:320:ARG:HH21	45:SE:359:PRO:C	2.15	0.49
46:SH:178:THR:HB	46:SH:181:GLU:HG3	1.95	0.49
46:SJ:405:GLU:HA	46:SJ:408:PHE:CD2	2.47	0.49
45:SK:133:GLN:O	45:SK:164:LYS:NZ	2.42	0.49
45:SK:183:GLU:N	45:SK:184:PRO:HD2	2.28	0.49
45:SM:98:ASP:CG	45:SM:100:ALA:H	2.16	0.49
45:TA:109:THR:HG22	45:TA:110:ILE:HG23	1.93	0.49
45:TA:271:SER:OG	45:TA:301:MET:HG3	2.13	0.49
46:TB:164:MET:SD	46:TB:166:THR:HG23	2.52	0.49
45:TC:137:VAL:HG23	45:TC:168:GLY:HA2	1.93	0.49
46:TD:138:SER:HA	46:TD:169:VAL:HB	1.94	0.49
46:TF:21:TRP:CZ3	46:TF:61:PRO:HB3	2.48	0.49
46:TF:199:CYS:HB3	46:TF:265:PHE:CD1	2.47	0.49
46:TJ:22:GLU:HG2	46:TJ:81:PHE:CD2	2.47	0.49
46:TJ:317:PHE:CD2	46:TJ:365:VAL:HG22	2.47	0.49
45:TM:301:MET:HE2	45:TM:303:ALA:HB3	1.93	0.49
46:UB:86:ARG:HE	46:UB:88:ASP:HB3	1.77	0.49
46:UB:318:ARG:HB3	46:UB:364:ALA:HB3	1.95	0.49
46:UH:32:PRO:O	46:UH:83:GLN:NE2	2.41	0.49
46:UL:6:HIS:HD2	46:UL:21:TRP:HE1	1.59	0.49
46:UL:345:ILE:HG22	45:UM:398:MET:SD	2.52	0.49
45:UM:237:SER:HA	45:UM:320:ARG:CZ	2.43	0.49
45:VA:260:VAL:HG13	46:VD:397:TRP:CZ2	2.47	0.49
46:VB:156:ARG:HD3	46:VB:164:MET:HE1	1.94	0.49
46:VD:116:VAL:HA	46:VD:119:VAL:HG12	1.94	0.49
45:VE:224:TYR:HD1	45:VE:227:LEU:HD12	1.77	0.49
45:VG:136:LEU:HD23	45:VG:167:LEU:HB2	1.94	0.49
46:VH:108:GLU:O	46:VH:111:GLU:HG3	2.13	0.49
45:VM:188:ILE:HD11	45:VM:391:LEU:HB3	1.94	0.49
45:WA:96:LYS:NZ	46:WB:1:MET:SD	2.80	0.49
45:WA:178:SER:HB2	46:WB:347:ASN:ND2	2.28	0.49
45:WE:352:LYS:HZ3	46:WH:178:THR:HA	1.75	0.49
46:WN:256:ASN:HB3	46:WN:350:LYS:HE3	1.94	0.49
23:1O:232:GLY:HA3	46:TB:56:GLY:HA2	1.94	0.49
4:2D:177:THR:HG21	46:EJ:47:ILE:HG12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2P:385:ILE:HD13	45:TM:282:TYR:HD1	1.77	0.49
37:5F:164:LYS:H	37:5F:165:PRO:CD	2.25	0.49
40:6G:241:LYS:HE2	46:VD:335:ASN:C	2.32	0.49
40:6G:278:ASP:OD1	45:VA:214:ARG:NE	2.46	0.49
41:6H:247:LYS:HZ2	46:FF:227:HIS:HB3	1.78	0.49
44:8R:118:TYR:OH	45:OI:56:THR:HG23	2.12	0.49
46:AB:87:PRO:HA	46:AB:90:PHE:HD2	1.78	0.49
46:AJ:282:ARG:NH2	46:MJ:86:ARG:HD2	2.28	0.49
45:AM:311:LYS:HD3	45:AM:342:GLN:HG3	1.95	0.49
46:AN:268:ILE:HG22	46:AN:368:VAL:HG22	1.94	0.49
46:BB:97:ALA:HB3	46:BB:143:THR:HB	1.92	0.49
45:BC:294:SER:O	45:BC:297:GLU:HG2	2.12	0.49
46:BF:198:GLU:HG2	46:BF:266:PHE:HE2	1.76	0.49
45:BG:176:GLN:NE2	45:BG:177:VAL:HG23	2.27	0.49
46:BH:86:ARG:HH21	46:BH:87:PRO:HD3	1.77	0.49
46:BH:377:MET:HA	46:BH:380:ARG:HG2	1.95	0.49
46:BJ:9:GLY:HA3	46:BJ:66:MET:SD	2.52	0.49
45:BK:90:GLU:HG3	45:CK:280:LYS:HZ1	1.77	0.49
45:BM:212:ILE:HD11	45:BM:300:ASN:HA	1.94	0.49
45:CA:101:ASN:HA	45:CA:144:GLY:H	1.78	0.49
45:CC:183:GLU:N	45:CC:184:PRO:HD2	2.28	0.49
45:CG:326:LYS:HZ2	46:CH:220:PRO:HD2	1.76	0.49
46:CJ:318:ARG:HB3	46:CJ:357:PRO:HA	1.95	0.49
46:CL:406:MET:O	46:CL:410:GLU:HG2	2.13	0.49
45:DG:31:GLN:HB2	45:DG:32:PRO:HD2	1.93	0.49
45:DG:56:THR:HG21	45:DG:60:LYS:HG3	1.94	0.49
45:DG:328:VAL:O	45:DG:332:ILE:HD12	2.13	0.49
46:DL:49:VAL:HG21	46:DL:241:ARG:HG2	1.93	0.49
45:DM:269:LEU:HD22	45:DM:384:ILE:HD11	1.95	0.49
46:DN:207:LEU:HB3	46:DN:225:LEU:HD22	1.94	0.49
45:EA:108:TYR:HA	45:EA:112:LYS:HE3	1.95	0.49
45:EC:9:VAL:HG22	45:EC:146:GLY:HA2	1.93	0.49
45:EC:384:ILE:HG12	45:EC:388:PHE:HE1	1.77	0.49
46:EH:86:ARG:HD2	46:FH:282:ARG:NH2	2.28	0.49
45:FA:101:ASN:HA	45:FA:144:GLY:H	1.76	0.49
45:FA:398:MET:CE	46:FB:346:PRO:HD2	2.40	0.49
46:FB:12:CYS:O	46:FB:16:ILE:HG12	2.11	0.49
46:FH:318:ARG:HB3	46:FH:357:PRO:HA	1.95	0.49
45:FK:82:THR:HG23	45:FK:83:TYR:CD1	2.48	0.49
45:FK:231:ILE:O	45:FK:235:ILE:HG12	2.13	0.49
46:GF:105:HIS:CE1	46:GF:150:LEU:HD12	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GG:90:GLU:OE1	45:GG:121:ARG:NH1	2.45	0.49
45:GG:343:PHE:CZ	45:GG:351:PHE:HE1	2.30	0.49
45:GI:102:ASN:HD21	45:GI:411:GLU:HG3	1.78	0.49
46:GL:397:TRP:O	46:GL:400:GLY:N	2.44	0.49
45:GM:224:TYR:HD1	45:GM:227:LEU:HD12	1.76	0.49
46:HB:58:ARG:NH2	46:IB:281:TYR:HA	2.26	0.49
46:HF:293:MET:HE2	46:HF:367:PHE:HD1	1.76	0.49
45:HI:356:ASN:OD1	45:HI:357:TYR:N	2.45	0.49
45:HM:32:PRO:O	45:HM:85:GLN:NE2	2.42	0.49
45:IA:409:VAL:HA	45:IA:413:MET:O	2.13	0.49
45:IC:340:THR:HG23	45:IC:341:ILE:HG13	1.94	0.49
45:IC:377:MET:SD	45:IC:379:SER:HB3	2.52	0.49
46:ID:12:CYS:O	46:ID:16:ILE:HG12	2.12	0.49
45:IE:98:ASP:OD2	45:IE:99:ALA:N	2.46	0.49
45:IG:31:GLN:HE22	45:IG:37:PRO:HB3	1.78	0.49
46:IH:11:GLN:O	46:IH:15:GLN:HG2	2.11	0.49
46:IL:190:HIS:CD2	46:IL:411:ALA:HA	2.47	0.49
46:JB:19:LYS:NZ	46:JB:227:HIS:HB2	2.28	0.49
45:JE:103:PHE:HB2	45:JE:186:ASN:HB3	1.94	0.49
45:JE:260:VAL:HG13	46:JH:397:TRP:HE1	1.78	0.49
46:JJ:149:THR:HA	46:JJ:152:ILE:HD12	1.93	0.49
45:JK:205:ASP:OD1	45:JK:303:ALA:HA	2.12	0.49
45:KA:167:LEU:HG	45:KA:200:VAL:HB	1.94	0.49
45:KA:175:PRO:HD2	45:KA:207:GLU:OE2	2.12	0.49
46:KB:169:VAL:HG12	46:KB:202:ILE:HB	1.95	0.49
46:KF:204:ASN:ND2	49:KF:501:GDP:O2'	2.45	0.49
46:KF:285:THR:HG22	46:KF:288:GLU:HG2	1.94	0.49
45:KG:223:THR:HG23	45:KG:225:THR:H	1.77	0.49
45:KK:22:GLU:OE2	45:KK:83:TYR:HE2	1.95	0.49
45:KK:195:LEU:HD21	45:KK:264:ARG:NH1	2.28	0.49
46:KL:341:PHE:HB3	46:KL:348:ASN:HD21	1.77	0.49
46:KN:63:ALA:O	46:KN:89:ASN:ND2	2.46	0.49
46:KN:152:ILE:HG23	46:KN:164:MET:SD	2.53	0.49
46:KN:317:PHE:HB2	46:KN:353:ILE:HD13	1.93	0.49
45:LA:17:GLY:HA2	45:LA:20:CYS:SG	2.52	0.49
45:LA:147:SER:HB2	45:LA:190:SER:OG	2.13	0.49
45:LE:414:GLU:OE1	45:LE:415:GLU:HG3	2.12	0.49
45:LM:265:ILE:HG22	45:LM:432:TYR:HE1	1.78	0.49
46:MB:267:MET:HB2	46:MB:299:MET:HE1	1.95	0.49
46:MD:370:ASN:OD1	46:MD:422:TYR:OH	2.30	0.49
45:ME:178:SER:OG	45:ME:179:THR:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NE:72:PRO:HD3	46:NF:2:ARG:HH22	1.77	0.49
45:NE:98:ASP:OD1	45:NE:99:ALA:N	2.45	0.49
45:NG:103:PHE:CE2	45:NG:189:LEU:HB3	2.48	0.49
46:NL:58:ARG:NH2	46:OL:280:GLN:O	2.44	0.49
46:NL:309:ARG:H	46:NL:372:THR:HG1	1.57	0.49
45:NM:72:PRO:HD2	46:NN:2:ARG:HH21	1.77	0.49
45:OA:49:PHE:HD2	45:OA:53:PHE:HB2	1.77	0.49
46:OD:163:ILE:HD11	46:OD:251:ARG:HG3	1.94	0.49
45:OE:107:HIS:ND1	45:OE:107:HIS:O	2.46	0.49
45:OE:245:ASP:N	45:OE:245:ASP:OD1	2.46	0.49
45:OG:326:LYS:NZ	46:OJ:220:PRO:O	2.35	0.49
46:OJ:204:ASN:OD1	49:OJ:501:GDP:O2'	2.29	0.49
46:ON:4:ILE:HD11	46:ON:131:GLN:HB2	1.94	0.49
46:ON:23:VAL:HA	46:ON:26:ASP:OD1	2.13	0.49
46:ON:32:PRO:HA	46:ON:84:LEU:HD21	1.94	0.49
46:ON:66:MET:HA	46:ON:91:VAL:O	2.12	0.49
46:PD:253:LEU:HD12	46:PD:257:LEU:HD13	1.94	0.49
45:PE:175:PRO:HA	45:PE:390:ARG:NH1	2.28	0.49
45:PE:352:LYS:NZ	46:PH:178:THR:OG1	2.32	0.49
45:PG:231:ILE:O	45:PG:235:ILE:HG12	2.13	0.49
45:PK:356:ASN:OD1	45:PK:357:TYR:N	2.45	0.49
46:PN:286:VAL:HA	46:PN:289:LEU:HD12	1.95	0.49
45:QA:169:PHE:CE2	45:QA:235:ILE:HD12	2.47	0.49
46:QB:54:ALA:HB3	46:QB:58:ARG:HG2	1.93	0.49
45:QC:319:TYR:CE2	45:QC:375:VAL:HB	2.48	0.49
45:QE:387:VAL:HA	45:QE:390:ARG:HG2	1.94	0.49
45:QG:20:CYS:HA	45:QG:232:ALA:HB1	1.94	0.49
46:QH:8:GLN:NE2	46:QH:14:ASN:HA	2.27	0.49
45:QI:55:GLU:HG3	45:QI:57:GLY:H	1.76	0.49
45:QK:183:GLU:N	45:QK:184:PRO:HD2	2.27	0.49
45:QM:326:LYS:HG2	46:QN:220:PRO:HD2	1.95	0.49
45:RA:183:GLU:N	45:RA:184:PRO:HD2	2.27	0.49
46:RB:398:TYR:HB3	46:RB:403:MET:SD	2.53	0.49
45:RE:141:VAL:HG22	45:RE:187:SER:HA	1.93	0.49
45:RG:67:PHE:HB2	45:RG:92:LEU:HD13	1.93	0.49
45:RK:166:LYS:N	45:RK:199:ASP:OD2	2.36	0.49
45:SA:231:ILE:O	45:SA:235:ILE:HG12	2.12	0.49
46:SB:167:PHE:HD2	46:SB:202:ILE:HD11	1.76	0.49
45:SG:53:PHE:O	45:SG:64:ARG:NE	2.43	0.49
45:SI:102:ASN:ND2	45:SI:105:ARG:HG3	2.27	0.49
46:SJ:117:LEU:HA	46:SJ:120:VAL:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:394:PHE:HB3	46:SL:397:TRP:CE3	2.47	0.49
45:SM:138:PHE:HE1	45:SM:169:PHE:CD2	2.31	0.49
45:SM:223:THR:HG23	45:SM:225:THR:H	1.75	0.49
45:TA:184:PRO:O	45:TA:188:ILE:HG12	2.13	0.49
45:TE:88:HIS:CE1	45:TE:90:GLU:HG2	2.48	0.49
46:TF:69:GLU:CD	46:TF:71:GLY:H	2.15	0.49
45:TK:9:VAL:HG13	45:TK:139:ASN:HB3	1.95	0.49
45:TK:184:PRO:O	45:TK:188:ILE:HG12	2.12	0.49
46:TL:21:TRP:HA	46:TL:24:ILE:HG12	1.94	0.49
46:UB:21:TRP:HA	46:UB:24:ILE:HG22	1.94	0.49
46:UB:73:MET:HE3	46:UB:77:ARG:HH21	1.77	0.49
46:UB:290:THR:HA	46:UB:293:MET:HG2	1.93	0.49
46:UB:309:ARG:H	46:UB:426:GLN:HE22	1.61	0.49
46:UD:107:THR:HG1	46:UD:108:GLU:CD	2.15	0.49
45:UE:226:ASN:HA	45:UE:229:ARG:HD2	1.94	0.49
45:UG:31:GLN:NE2	45:UG:37:PRO:HB3	2.22	0.49
45:UG:121:ARG:HA	45:UG:121:ARG:NH1	2.28	0.49
45:UM:77:GLU:O	45:UM:84:ARG:NH2	2.31	0.49
46:UN:6:HIS:HB3	46:UN:63:ALA:HA	1.95	0.49
45:VA:27:GLU:HB3	45:VA:361:THR:HG21	1.93	0.49
45:VA:254:GLU:HG2	46:VD:98:GLY:HA2	1.93	0.49
46:VB:97:ALA:HB3	46:VB:143:THR:HB	1.92	0.49
46:VB:186:THR:HA	46:VB:189:VAL:HG12	1.94	0.49
45:VC:330:ALA:O	45:VC:334:THR:HG23	2.12	0.49
45:VG:430:LYS:O	45:VG:433:GLU:HG2	2.13	0.49
45:VI:258:ASN:ND2	45:VI:352:LYS:HE3	2.27	0.49
45:VI:326:LYS:HD2	45:VI:326:LYS:H	1.77	0.49
46:VJ:237:THR:HG23	46:VJ:241:ARG:HH21	1.78	0.49
46:VN:267:MET:HG3	46:VN:301:CYS:SG	2.53	0.49
45:WA:155:GLU:HB3	45:WA:156:ARG:HH22	1.77	0.49
46:WB:4:ILE:HG23	46:WB:132:GLY:O	2.12	0.49
45:WE:107:HIS:ND1	45:WE:107:HIS:O	2.46	0.49
46:WF:140:GLY:HA2	46:WF:181:GLU:OE2	2.13	0.49
45:WK:60:LYS:HG2	45:WK:61:HIS:N	2.27	0.49
45:CE:319:TYR:CD2	45:CE:323:VAL:HG21	2.47	0.49
4:OD:167:ILE:HG23	45:EC:80:THR:HG22	1.94	0.49
3:1C:80:ARG:HH22	46:EL:360:GLY:H	1.60	0.49
20:1K:212:ARG:NH2	45:GA:370:LYS:HG3	2.25	0.49
9:1N:482:VAL:HG21	45:II:39:ASP:HB3	1.93	0.49
1:2A:67:PRO:HG3	46:MJ:53:GLU:CG	2.42	0.49
15:2X:45:GLN:NE2	45:MI:282:TYR:CG	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5D:87:ARG:HD3	36:5D:87:ARG:H	1.78	0.49
10:5Q:41:ASP:HB2	10:5Q:129:TRP:HE1	1.78	0.49
41:6H:306:LYS:HE2	41:6H:306:LYS:HA	1.93	0.49
45:AC:181:VAL:HG23	45:AC:182:VAL:HG13	1.93	0.49
45:AK:212:ILE:HD11	45:AK:300:ASN:HA	1.94	0.49
46:AN:238:CYS:SG	46:AN:318:ARG:HD2	2.53	0.49
45:BA:175:PRO:HA	45:BA:390:ARG:HE	1.78	0.49
45:BC:231:ILE:O	45:BC:235:ILE:HG12	2.12	0.49
46:BD:237:THR:O	46:BD:241:ARG:NH1	2.45	0.49
45:BG:230:LEU:O	45:BG:234:VAL:HG23	2.12	0.49
45:BG:387:VAL:HG12	45:BG:390:ARG:NH1	2.27	0.49
45:BI:331:SER:O	45:BI:335:ILE:HG12	2.13	0.49
46:BJ:58:ARG:HD3	46:CH:280:GLN:CD	2.33	0.49
46:BJ:318:ARG:HB3	46:BJ:357:PRO:HA	1.95	0.49
45:BM:384:ILE:O	45:BM:387:VAL:HG22	2.12	0.49
45:CA:294:SER:O	45:CA:297:GLU:HG2	2.12	0.49
45:CK:104:ALA:HB2	45:CK:413:MET:HG3	1.94	0.49
46:CN:309:ARG:NH2	46:CN:426:GLN:O	2.37	0.49
45:DA:88:HIS:HB3	45:DA:91:GLN:HG2	1.95	0.49
46:DB:4:ILE:HG13	46:DB:132:GLY:O	2.12	0.49
46:DB:267:MET:CE	46:DB:301:CYS:HB2	2.42	0.49
45:DE:384:ILE:O	45:DE:387:VAL:HG22	2.12	0.49
46:DF:65:LEU:HD22	46:DF:90:PHE:CE1	2.47	0.49
45:DK:215:ARG:HG3	45:DK:216:ASN:OD1	2.12	0.49
46:DL:350:LYS:HZ2	45:DM:181:VAL:HG13	1.78	0.49
45:EA:37:PRO:HG2	45:EA:40:LYS:HD2	1.93	0.49
46:EB:167:PHE:CE2	46:EB:233:MET:HG2	2.47	0.49
45:EE:20:CYS:HA	45:EE:232:ALA:HB1	1.95	0.49
46:EH:177:ASP:OD2	49:EH:501:GDP:H3'	2.11	0.49
45:EK:183:GLU:N	45:EK:184:PRO:HD2	2.28	0.49
46:EN:105:HIS:CD2	46:EN:150:LEU:HB2	2.47	0.49
45:FC:407:TRP:CZ2	46:FD:258:ILE:HD11	2.40	0.49
45:FG:178:SER:OG	45:FG:183:GLU:OE1	2.31	0.49
45:FM:109:THR:HG22	45:FM:110:ILE:HG23	1.93	0.49
45:GA:208:ALA:O	45:GA:212:ILE:HG12	2.13	0.49
45:GA:390:ARG:O	45:GA:394:LYS:HG3	2.12	0.49
46:GB:207:LEU:HD13	46:GB:225:LEU:HB3	1.95	0.49
46:GB:285:THR:HB	46:GB:287:PRO:HD2	1.95	0.49
45:GG:73:THR:O	45:GG:76:ASP:N	2.44	0.49
45:GI:210:TYR:HB3	46:GJ:324:LYS:HZ1	1.78	0.49
45:GK:80:THR:O	45:GK:84:ARG:NH2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HA:185:TYR:OH	45:HA:398:MET:HG3	2.13	0.49
45:HC:284:GLU:CD	45:HC:286:LEU:H	2.15	0.49
46:HD:6:HIS:O	46:HD:63:ALA:HA	2.12	0.49
45:HM:231:ILE:O	45:HM:235:ILE:HG12	2.12	0.49
46:HN:32:PRO:HB3	46:HN:81:PHE:HA	1.94	0.49
46:IB:16:ILE:HD12	46:IB:229:VAL:HG21	1.95	0.49
46:ID:64:ILE:HD13	46:ID:119:VAL:HG13	1.95	0.49
45:II:387:VAL:HA	45:II:390:ARG:HG2	1.95	0.49
45:IK:74:VAL:O	45:IK:77:GLU:HG3	2.13	0.49
46:IL:73:MET:CE	46:IL:92:PHE:HB3	2.42	0.49
45:IM:406:HIS:CE1	46:IN:261:PRO:HD3	2.47	0.49
45:JG:330:ALA:O	45:JG:334:THR:HG23	2.13	0.49
46:JL:139:LEU:HD12	46:JL:170:VAL:HG12	1.95	0.49
46:KB:63:ALA:O	46:KB:89:ASN:ND2	2.37	0.49
45:KG:11:GLN:HG2	45:KG:74:VAL:HG11	1.94	0.49
45:KI:227:LEU:O	45:KI:231:ILE:HG12	2.13	0.49
45:KI:321:GLY:HA3	45:KI:372:MET:O	2.12	0.49
46:KL:3:GLU:HA	46:KL:49:VAL:HG23	1.94	0.49
45:LG:15:GLN:OE1	47:LG:501:GTP:N7	2.46	0.49
45:LK:66:VAL:HG11	45:LK:122:ILE:HD11	1.95	0.49
45:LM:30:ILE:HD13	45:LM:36:MET:SD	2.53	0.49
46:MB:1:MET:HG3	46:MB:2:ARG:H	1.76	0.49
46:MB:423:GLN:NE2	46:MB:424:GLN:OE1	2.45	0.49
45:ME:319:TYR:CB	45:ME:323:VAL:HG11	2.43	0.49
46:MJ:238:CYS:SG	46:MJ:239:CYS:N	2.86	0.49
45:MM:222:PRO:HD2	46:MN:324:LYS:HG2	1.95	0.49
46:ND:187:LEU:HD11	46:ND:408:PHE:HE2	1.78	0.49
46:NF:242:PHE:HB3	46:NF:356:ILE:HD13	1.94	0.49
45:NI:98:ASP:OD1	45:NI:99:ALA:N	2.45	0.49
46:NJ:314:SER:HA	46:NJ:350:LYS:HB2	1.93	0.49
46:NN:318:ARG:HB3	46:NN:357:PRO:HA	1.95	0.49
45:OA:200:VAL:HG13	45:OA:268:MET:CE	2.43	0.49
45:OA:270:SER:HA	45:OA:377:MET:O	2.13	0.49
46:OB:68:LEU:HD12	46:OB:143:THR:OG1	2.12	0.49
45:OC:49:PHE:HB2	45:OC:53:PHE:HB2	1.93	0.49
45:OC:80:THR:O	45:OC:84:ARG:NH2	2.45	0.49
45:OC:336:LYS:HE3	45:OC:336:LYS:HA	1.94	0.49
46:OF:67:ASP:OD2	46:OF:68:LEU:N	2.42	0.49
46:OF:148:GLY:O	46:OF:152:ILE:HG12	2.11	0.49
45:OG:152:LEU:O	45:OG:155:GLU:HG3	2.11	0.49
46:OJ:18:ALA:HB3	46:OJ:19:LYS:HZ2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OK:21:TRP:CZ2	45:OK:65:ALA:HB2	2.47	0.49
45:PA:258:ASN:CB	45:PA:352:LYS:HE3	2.42	0.49
45:PC:324:VAL:CG1	45:PC:326:LYS:HE2	2.41	0.49
46:PD:2:ARG:HD2	46:PD:131:GLN:HE21	1.77	0.49
45:PG:93:ILE:HG21	45:PG:117:LEU:HD11	1.95	0.49
45:PG:155:GLU:HA	45:PG:197:HIS:CD2	2.47	0.49
46:PH:226:ASN:ND2	49:PH:501:GDP:HN1	2.08	0.49
45:PI:71:GLU:OE2	46:PJ:2:ARG:NH2	2.46	0.49
46:PL:73:MET:HA	46:PL:76:VAL:HG12	1.95	0.49
46:PL:314:SER:HA	46:PL:350:LYS:HB3	1.95	0.49
46:PN:119:VAL:O	46:PN:123:GLU:OE1	2.31	0.49
45:QA:326:LYS:NZ	46:QB:220:PRO:O	2.35	0.49
46:QD:187:LEU:HD21	46:QD:408:PHE:HE2	1.77	0.49
45:QE:223:THR:HG23	45:QE:225:THR:H	1.78	0.49
46:QF:226:ASN:HA	46:QF:229:VAL:HG12	1.93	0.49
45:QG:183:GLU:N	45:QG:184:PRO:HD2	2.27	0.49
45:QI:260:VAL:HG23	46:QJ:397:TRP:HE1	1.78	0.49
45:QK:188:ILE:HD12	45:QK:425:LEU:HD11	1.94	0.49
45:RA:294:SER:O	45:RA:300:ASN:ND2	2.24	0.49
45:RC:12:GLY:HA2	45:RC:15:GLN:HE21	1.77	0.49
45:RC:268:MET:HB2	45:RC:379:SER:O	2.12	0.49
45:RE:183:GLU:N	45:RE:184:PRO:HD2	2.28	0.49
46:RH:10:GLY:O	46:RH:14:ASN:ND2	2.45	0.49
46:RH:156:ARG:HD3	46:RH:160:PRO:HA	1.95	0.49
46:RL:258:ILE:HG13	46:RL:266:PHE:HZ	1.76	0.49
46:RL:272:PRO:HG3	46:RL:289:LEU:HD21	1.94	0.49
45:SC:288:VAL:HA	45:SC:291:ILE:HG22	1.93	0.49
45:SC:371:VAL:HG22	45:SC:373:ARG:H	1.77	0.49
46:SH:334:GLN:HA	46:SH:341:PHE:HE2	1.77	0.49
45:SI:56:THR:HG23	45:SI:58:ALA:H	1.78	0.49
45:SK:326:LYS:HD2	46:SL:212:PHE:CZ	2.48	0.49
45:TA:231:ILE:O	45:TA:235:ILE:HG12	2.12	0.49
45:TE:231:ILE:O	45:TE:235:ILE:HG12	2.13	0.49
46:TF:12:CYS:O	46:TF:16:ILE:HG12	2.13	0.49
46:TF:118:ASP:OD1	46:TF:121:ARG:NH1	2.46	0.49
46:TF:119:VAL:O	46:TF:122:LYS:HG3	2.12	0.49
45:TI:21:TRP:CZ2	45:TI:65:ALA:HB2	2.48	0.49
46:TJ:25:SER:OG	46:TJ:51:TYR:OH	2.25	0.49
46:TL:344:TRP:HA	45:TM:397:LEU:HD21	1.94	0.49
45:UA:326:LYS:NZ	46:UB:220:PRO:O	2.24	0.49
46:UD:109:GLY:HA3	46:UD:147:MET:HE3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UG:89:PRO:CD	45:VE:280:LYS:HE2	2.40	0.49
45:UG:287:SER:N	45:UG:290:GLU:OE2	2.45	0.49
45:UG:340:THR:HG23	45:UG:341:ILE:HG13	1.94	0.49
46:UH:9:GLY:HA3	46:UH:66:MET:SD	2.52	0.49
45:UI:183:GLU:N	45:UI:184:PRO:HD2	2.27	0.49
45:VA:294:SER:O	45:VA:300:ASN:ND2	2.27	0.49
46:VB:118:ASP:HA	46:VB:121:ARG:NH1	2.28	0.49
46:VJ:309:ARG:NH2	46:VJ:426:GLN:O	2.39	0.49
46:VL:280:GLN:HG2	46:VL:281:TYR:HD1	1.77	0.49
46:VN:32:PRO:O	46:VN:83:GLN:NE2	2.45	0.49
45:WC:335:ILE:HD13	45:WC:338:LYS:HZ1	1.77	0.49
45:WE:8:HIS:HB2	45:WE:67:PHE:CD1	2.47	0.49
46:WF:318:ARG:HH11	46:WF:358:PRO:HG3	1.78	0.49
46:WH:226:ASN:HA	46:WH:229:VAL:HG12	1.95	0.49
4:OD:55:GLY:N	45:EC:221:ARG:HE	2.08	0.49
5:OE:60:THR:HA	46:DB:37:HIS:HD2	1.77	0.49
10:OQ:6:PHE:CZ	45:WA:121:ARG:NH1	2.80	0.49
3:1C:53:TYR:HB3	45:EM:221:ARG:NH2	2.25	0.49
28:2F:93:GLU:O	45:HE:308:ARG:NH1	2.46	0.49
20:2K:245:TRP:CZ2	46:GN:277:GLY:HA2	2.48	0.49
20:2K:291:GLN:HE22	46:FL:55:THR:C	2.16	0.49
24:2P:439:HIS:HE1	45:TK:369:ALA:HB1	1.76	0.49
26:2W:189:ARG:N	45:KM:46:ASP:OD2	2.29	0.49
14:3V:113:ARG:N	45:LA:196:GLU:OE2	2.45	0.49
27:4C:69:VAL:HG22	46:LN:41:ASP:OD1	2.13	0.49
37:5E:87:LEU:HD11	37:5E:99:ARG:HH22	1.78	0.49
37:5G:121:GLU:OE1	45:OI:370:LYS:NZ	2.29	0.49
37:5G:165:PRO:HD2	37:5G:166:ARG:HH11	1.77	0.49
35:5S:131:GLY:HA3	35:5S:135:ILE:HD11	1.94	0.49
39:6F:26:TRP:HE3	39:6F:30:ARG:HD3	1.78	0.49
34:7R:211:ALA:O	34:7R:214:THR:OG1	2.24	0.49
34:7R:268:GLU:OE1	46:DB:280:GLN:HG2	2.13	0.49
34:7R:401:VAL:HG12	46:EB:277:GLY:HA2	1.95	0.49
45:AC:171:ILE:HG23	45:AC:204:LEU:O	2.13	0.49
46:AD:229:VAL:HG12	46:AD:233:MET:HE2	1.94	0.49
46:AD:281:TYR:OH	46:MD:83:GLN:OE1	2.26	0.49
46:AF:69:GLU:CD	46:AF:71:GLY:H	2.16	0.49
45:AK:241:SER:OG	45:AK:250:VAL:O	2.25	0.49
45:BG:222:PRO:O	46:BH:322:SER:OG	2.13	0.49
46:BL:19:LYS:HA	46:BL:19:LYS:HE2	1.95	0.49
46:BL:222:TYR:O	46:BL:226:ASN:ND2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CB:268:ILE:HG13	46:CB:300:MET:HG3	1.93	0.49
46:CF:64:ILE:HD11	46:CF:123:GLU:HG3	1.94	0.49
46:CF:68:LEU:HD21	46:CF:147:MET:HE3	1.95	0.49
46:CF:294:PHE:CD2	46:CF:333:VAL:HG11	2.48	0.49
45:CI:208:ALA:O	45:CI:212:ILE:HG12	2.12	0.49
45:CI:387:VAL:HA	45:CI:390:ARG:HD3	1.94	0.49
45:CI:387:VAL:HG23	45:CI:388:PHE:CD1	2.47	0.49
45:DA:176:GLN:NE2	45:DA:207:GLU:OE2	2.46	0.49
45:DE:260:VAL:HG23	46:DF:397:TRP:CZ2	2.47	0.49
46:DL:97:ALA:HB2	46:DL:143:THR:HB	1.94	0.49
46:DN:42:LEU:HA	46:DN:45:GLU:HG3	1.95	0.49
46:EB:105:HIS:CE1	46:EB:150:LEU:HD12	2.48	0.49
45:EG:188:ILE:HG23	45:EG:425:LEU:HD11	1.93	0.49
45:EI:311:LYS:N	45:EI:382:THR:OG1	2.40	0.49
46:FD:105:HIS:CE1	46:FD:150:LEU:HD12	2.47	0.49
45:FE:205:ASP:OD1	45:FE:303:ALA:HA	2.13	0.49
45:FI:353:VAL:HG12	46:FL:177:ASP:OD1	2.12	0.49
45:FM:183:GLU:N	45:FM:184:PRO:HD2	2.27	0.49
45:GG:208:ALA:O	45:GG:212:ILE:HG12	2.13	0.49
45:GI:183:GLU:N	45:GI:184:PRO:HD2	2.28	0.49
46:HB:240:LEU:HD21	46:HB:250:LEU:HG	1.94	0.49
46:HD:12:CYS:O	46:HD:16:ILE:HG12	2.12	0.49
46:HF:200:MET:HG2	46:HF:266:PHE:HB2	1.93	0.49
45:HG:31:GLN:OE1	45:HG:37:PRO:HD3	2.12	0.49
45:HG:237:SER:HA	45:HG:320:ARG:HH11	1.76	0.49
45:HI:89:PRO:HD3	45:II:283:HIS:HD1	1.76	0.49
45:HK:396:ASP:OD1	45:HK:397:LEU:N	2.45	0.49
45:HM:188:ILE:HD11	45:HM:391:LEU:HB3	1.95	0.49
45:IA:49:PHE:O	45:IA:53:PHE:N	2.37	0.49
45:IE:163:LYS:HA	45:IE:163:LYS:HE2	1.94	0.49
45:IG:180:ALA:HA	46:IH:350:LYS:NZ	2.28	0.49
45:IG:387:VAL:HA	45:IG:390:ARG:HG2	1.93	0.49
45:II:97:GLU:OE2	45:II:105:ARG:NH1	2.33	0.49
45:IK:237:SER:HA	45:IK:320:ARG:HH11	1.77	0.49
46:IN:213:ARG:HD2	46:IN:297:LYS:HE2	1.94	0.49
46:IN:282:ARG:HE	46:IN:288:GLU:CD	2.16	0.49
46:JF:178:THR:OG1	46:JF:181:GLU:HG3	2.13	0.49
46:JF:374:ILE:O	46:JF:377:MET:HG2	2.13	0.49
46:JL:3:GLU:OE2	46:JL:3:GLU:N	2.45	0.49
45:JM:75:ILE:HG23	45:JM:92:LEU:HB3	1.94	0.49
46:JN:224:ASP:HA	46:JN:227:HIS:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KA:17:GLY:HA2	45:KA:20:CYS:SG	2.53	0.49
46:KB:372:THR:HG21	46:KB:426:GLN:HB3	1.95	0.49
46:KD:289:LEU:HD13	46:KD:365:VAL:HG23	1.95	0.49
45:KE:141:VAL:HG12	45:KE:171:ILE:O	2.12	0.49
45:KK:319:TYR:CE2	45:KK:328:VAL:HG22	2.48	0.49
46:KL:107:THR:HG1	46:KL:108:GLU:CD	2.15	0.49
45:LE:183:GLU:N	45:LE:184:PRO:HD2	2.28	0.49
46:LH:186:THR:HA	46:LH:189:VAL:HG12	1.94	0.49
45:LI:223:THR:HG22	45:LI:224:TYR:N	2.25	0.49
45:LK:209:ILE:HD11	45:LK:302:MET:HG3	1.95	0.49
46:LL:212:PHE:CE1	46:LL:220:PRO:HG2	2.48	0.49
46:MB:63:ALA:O	46:MB:89:ASN:ND2	2.40	0.49
45:MC:49:PHE:HB2	45:MC:53:PHE:HB2	1.94	0.49
45:ME:178:SER:HB3	46:MF:347:ASN:ND2	2.27	0.49
45:ME:414:GLU:CD	45:ME:416:GLY:H	2.16	0.49
46:MF:107:THR:HG23	46:MF:108:GLU:HG3	1.94	0.49
45:MI:102:ASN:ND2	45:MI:105:ARG:HG3	2.28	0.49
46:NB:173:PRO:HG3	46:NB:380:ARG:HD2	1.93	0.49
45:NE:90:GLU:HB2	45:NE:121:ARG:HH12	1.78	0.49
46:NF:127:CYS:SG	46:NF:130:LEU:HB2	2.53	0.49
45:NG:96:LYS:HD3	46:NH:1:MET:HE2	1.95	0.49
46:NH:4:ILE:HG13	46:NH:132:GLY:O	2.11	0.49
46:NN:22:GLU:HB3	46:NN:81:PHE:HD2	1.77	0.49
46:NN:173:PRO:HD3	46:NN:380:ARG:HD3	1.94	0.49
45:OA:100:ALA:HA	46:OB:252:LYS:HE3	1.94	0.49
46:OB:286:VAL:HG11	46:OB:326:VAL:HG22	1.95	0.49
46:ON:179:VAL:HG13	46:ON:180:VAL:HG13	1.95	0.49
45:PA:348:PRO:HD3	46:PD:388:MET:HE1	1.95	0.49
46:PB:347:ASN:ND2	46:PB:349:ILE:HG22	2.27	0.49
45:PE:419:SER:O	45:PE:423:GLU:HG2	2.12	0.49
45:PG:200:VAL:HG13	45:PG:268:MET:SD	2.53	0.49
46:PN:86:ARG:HB3	46:PN:89:ASN:OD1	2.13	0.49
46:PN:99:ASN:HA	46:PN:142:GLY:H	1.78	0.49
45:QA:88:HIS:HB3	45:QA:91:GLN:HG2	1.94	0.49
45:QC:223:THR:HG23	45:QC:225:THR:H	1.77	0.49
46:QD:238:CYS:HA	46:QD:241:ARG:NH1	2.28	0.49
45:QE:72:PRO:O	45:QE:76:ASP:HB2	2.13	0.49
45:QG:223:THR:HG23	45:QG:225:THR:H	1.77	0.49
46:QL:206:ALA:O	46:QL:210:ILE:HG12	2.13	0.49
46:QL:324:LYS:HB2	45:QM:210:TYR:CE1	2.48	0.49
46:QL:331:LEU:HD22	45:QM:176:GLN:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QN:97:ALA:HA	46:QN:103:LYS:HG2	1.95	0.49
46:RB:164:MET:HB3	46:RB:197:ASP:H	1.78	0.49
46:RB:379:LYS:O	46:RB:383:GLU:OE1	2.31	0.49
45:RC:93:ILE:HG22	45:RC:114:ILE:HD11	1.95	0.49
46:RD:325:GLU:HA	46:RD:328:GLU:HG2	1.95	0.49
46:RF:260:PHE:HB2	46:RF:263:LEU:HD13	1.95	0.49
46:RH:37:HIS:ND1	46:RH:37:HIS:O	2.46	0.49
46:RH:101:TRP:HB2	46:RH:184:ASN:HB3	1.95	0.49
46:RJ:97:ALA:HB3	46:RJ:143:THR:HB	1.94	0.49
46:RL:21:TRP:CZ3	46:RL:61:PRO:HB3	2.48	0.49
46:RN:135:ILE:HG13	46:RN:152:ILE:HD11	1.95	0.49
46:SB:133:PHE:H	46:SB:164:MET:HE1	1.78	0.49
46:SH:66:MET:SD	46:SH:91:VAL:HG23	2.53	0.49
46:SJ:238:CYS:HB3	46:SJ:318:ARG:NH1	2.27	0.49
46:SJ:324:LYS:HE3	45:SK:222:PRO:HG2	1.94	0.49
45:SM:183:GLU:N	45:SM:184:PRO:HD2	2.28	0.49
45:TA:140:SER:OG	47:TA:501:GTP:O2B	2.31	0.49
45:TA:167:LEU:HG	45:TA:200:VAL:HB	1.95	0.49
45:TA:183:GLU:N	45:TA:184:PRO:HD2	2.27	0.49
46:TB:309:ARG:NH2	46:TB:426:GLN:O	2.37	0.49
45:TC:280:LYS:HE3	45:TC:284:GLU:OE2	2.13	0.49
46:TD:282:ARG:HE	46:TD:283:ALA:N	2.09	0.49
46:TD:385:PHE:CZ	46:TD:408:PHE:HD2	2.19	0.49
45:TE:74:VAL:O	45:TE:78:VAL:HG23	2.13	0.49
45:TE:226:ASN:HA	45:TE:229:ARG:HG2	1.95	0.49
46:TF:9:GLY:HA3	46:TF:66:MET:HE3	1.94	0.49
46:TL:118:ASP:O	46:TL:121:ARG:HD3	2.12	0.49
46:TL:293:MET:SD	46:TL:365:VAL:HG11	2.53	0.49
45:TM:33:ASP:OD1	45:TM:85:GLN:NE2	2.43	0.49
45:TM:181:VAL:HG23	45:TM:182:VAL:HG13	1.95	0.49
45:UA:183:GLU:N	45:UA:184:PRO:HD2	2.27	0.49
46:UB:247:ASN:OD1	45:UC:11:GLN:NE2	2.45	0.49
46:UD:41:ASP:OD1	46:UD:42:LEU:HD12	2.12	0.49
45:UG:10:GLY:O	45:UG:14:ILE:HG12	2.13	0.49
45:UK:346:TRP:CD1	46:UL:391:ARG:HG3	2.48	0.49
45:UM:237:SER:O	45:UM:320:ARG:NH2	2.45	0.49
45:VC:223:THR:HG23	45:VC:225:THR:H	1.78	0.49
45:VC:346:TRP:CD1	46:VF:391:ARG:HG3	2.48	0.49
46:VD:148:GLY:O	46:VD:152:ILE:HG12	2.13	0.49
46:VF:285:THR:O	46:VF:288:GLU:HG3	2.12	0.49
45:VG:107:HIS:O	45:VG:107:HIS:ND1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:239:THR:HG23	45:VG:243:ARG:HE	1.78	0.49
45:VK:256:GLN:NE2	45:VK:257:THR:HG23	2.27	0.49
46:WB:190:HIS:HD2	46:WB:411:ALA:HA	1.78	0.49
46:WN:362:LYS:HD3	46:WN:363:MET:HG3	1.94	0.49
45:CE:171:ILE:HG13	45:CE:204:LEU:HB2	1.95	0.49
17:1F:157:LEU:HG	46:HL:337:ASN:ND2	2.27	0.49
22:1M:7:ILE:HD13	45:IC:43:GLY:HA2	1.94	0.49
14:1V:141:ASN:HD22	45:LK:402:ARG:HB3	1.77	0.49
20:2K:301:THR:HG23	46:GL:276:ARG:NH2	2.28	0.49
25:2R:87:LEU:HA	45:MG:85:GLN:HE22	1.76	0.49
25:2R:391:SER:O	46:EH:276:ARG:HG2	2.12	0.49
37:5F:129:ARG:HH21	37:5F:130:PRO:HD2	1.77	0.49
34:5R:32:THR:HA	45:LG:1:MET:HE3	1.95	0.49
34:5R:311:LYS:HG3	34:5R:329:TYR:CZ	2.48	0.49
34:6R:80:ARG:NH2	45:MM:31:GLN:OE1	2.46	0.49
45:AA:387:VAL:HA	45:AA:390:ARG:HG2	1.95	0.49
46:AL:229:VAL:HG12	46:AL:233:MET:HE2	1.93	0.49
45:BE:93:ILE:HD11	45:BE:121:ARG:HG3	1.95	0.49
45:BE:395:PHE:HZ	45:BE:418:PHE:HB3	1.77	0.49
45:BG:79:ARG:HH21	45:BG:92:LEU:HB2	1.77	0.49
46:BH:316:LEU:HB2	46:BH:366:THR:HG22	1.93	0.49
46:BL:103:LYS:HB3	46:BL:401:GLU:OE1	2.13	0.49
46:BL:150:LEU:O	46:BL:154:LYS:HG2	2.12	0.49
45:BM:178:SER:OG	46:BN:347:ASN:HB3	2.13	0.49
45:BM:430:LYS:O	45:BM:434:GLU:OE1	2.29	0.49
46:BN:201:VAL:O	46:BN:202:ILE:HD13	2.13	0.49
45:CA:250:VAL:HG13	45:CA:254:GLU:HB2	1.94	0.49
46:CB:213:ARG:NH2	46:CB:297:LYS:HG3	2.27	0.49
45:CC:223:THR:HG22	45:CC:224:TYR:N	2.28	0.49
46:CD:9:GLY:HA2	46:CD:66:MET:O	2.13	0.49
46:CD:238:CYS:SG	46:CD:239:CYS:N	2.85	0.49
46:CJ:39:ASP:OD1	46:CJ:40:SER:N	2.46	0.49
45:CK:430:LYS:O	45:CK:433:GLU:HG3	2.12	0.49
46:DL:209:ASP:HB3	46:DL:213:ARG:HE	1.77	0.49
45:EA:231:ILE:O	45:EA:235:ILE:HG12	2.12	0.49
45:EC:183:GLU:N	45:EC:184:PRO:HD2	2.28	0.49
45:EC:215:ARG:NH2	45:EC:299:ALA:O	2.40	0.49
45:EC:269:LEU:HB2	45:EC:301:MET:CE	2.43	0.49
46:ED:208:TYR:HE1	46:ED:225:LEU:HD11	1.77	0.49
46:EF:2:ARG:HH12	45:EG:71:GLU:HG2	1.77	0.49
46:EF:100:ASN:HB3	46:EF:103:LYS:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EH:174:LYS:HB2	46:EH:205:GLU:HG3	1.95	0.49
46:FD:132:GLY:HA3	46:FD:163:ILE:HG22	1.95	0.49
45:FG:221:ARG:NH1	46:FH:322:SER:OG	2.46	0.49
45:FI:332:ILE:HD12	45:FI:351:PHE:CD2	2.48	0.49
46:FJ:201:VAL:HG23	46:FJ:301:CYS:SG	2.52	0.49
45:FK:384:ILE:HG23	45:FK:432:TYR:HE1	1.77	0.49
45:GC:2:ARG:HD3	45:GC:2:ARG:H	1.78	0.49
46:GD:208:TYR:HA	46:GD:211:CYS:SG	2.53	0.49
45:GE:113:GLU:OE1	45:GE:113:GLU:N	2.46	0.49
46:GF:262:ARG:NH1	46:GF:421:GLU:OE2	2.45	0.49
46:GH:55:THR:HG23	46:HH:283:ALA:HA	1.95	0.49
45:GI:212:ILE:HD11	45:GI:300:ASN:HA	1.94	0.49
46:GN:68:LEU:HD12	46:GN:93:GLY:HA3	1.95	0.49
46:HB:199:CYS:O	46:HB:265:PHE:HA	2.12	0.49
45:HC:181:VAL:HG12	46:HD:256:ASN:OD1	2.12	0.49
45:HG:88:HIS:ND1	45:HG:90:GLU:HG3	2.27	0.49
45:HG:430:LYS:O	45:HG:433:GLU:HG3	2.12	0.49
46:HJ:257:LEU:HA	46:HJ:312:THR:HG21	1.95	0.49
46:HL:31:ASP:OD1	46:HL:35:THR:N	2.38	0.49
45:HM:211:ASP:OD1	45:HM:214:ARG:NH1	2.45	0.49
46:HN:61:PRO:HD3	46:HN:84:LEU:HG	1.93	0.49
46:IB:48:ASN:O	46:IB:62:ARG:NH2	2.46	0.49
45:IG:68:LEU:HD21	45:IG:118:CYS:SG	2.52	0.49
45:IG:256:GLN:OE1	45:IG:256:GLN:N	2.44	0.49
46:IL:1:MET:N	46:IL:48:ASN:HD21	2.11	0.49
46:IN:375:GLN:OE1	46:IN:423:GLN:HB3	2.13	0.49
46:JB:161:ASP:OD1	46:JB:162:ARG:HG2	2.12	0.49
46:JF:321:MET:N	46:JF:321:MET:SD	2.86	0.49
45:JG:287:SER:HA	45:JG:373:ARG:HH21	1.77	0.49
46:JH:65:LEU:HD21	46:JH:90:PHE:CE1	2.48	0.49
46:JJ:141:GLY:O	46:JJ:145:SER:HB3	2.12	0.49
45:JK:188:ILE:HG13	45:JK:189:LEU:N	2.28	0.49
46:JL:5:VAL:HG12	46:JL:62:ARG:HD3	1.94	0.49
45:KG:265:ILE:HG22	45:KG:432:TYR:CE1	2.47	0.49
46:KH:65:LEU:HD12	46:KH:90:PHE:CE1	2.48	0.49
46:KJ:163:ILE:HD11	46:KJ:251:ARG:HD2	1.93	0.49
45:LE:238:LEU:HD21	45:LE:255:PHE:HE2	1.76	0.49
45:LE:395:PHE:HZ	45:LE:418:PHE:HB3	1.77	0.49
46:LH:67:ASP:OD1	46:LH:68:LEU:N	2.43	0.49
45:LM:217:LEU:HD12	45:LM:367:ASP:HB3	1.94	0.49
45:MG:326:LYS:HZ1	46:MJ:208:TYR:C	2.15	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MJ:286:VAL:O	46:MJ:290:THR:HG23	2.12	0.49
45:NA:141:VAL:HG12	45:NA:172:TYR:HA	1.95	0.49
46:NB:162:ARG:HG3	46:NB:163:ILE:N	2.27	0.49
46:NB:221:THR:HG23	46:NB:223:GLY:N	2.27	0.49
46:NF:104:GLY:O	46:NF:147:MET:HB2	2.13	0.49
45:NG:181:VAL:HG13	45:NG:182:VAL:HG13	1.93	0.49
46:NJ:268:ILE:HG22	46:NJ:368:VAL:HG22	1.95	0.49
45:NK:297:GLU:HB3	45:NK:300:ASN:HB2	1.95	0.49
46:NL:350:LYS:HE2	46:NL:350:LYS:HA	1.95	0.49
46:NN:186:THR:HG21	46:NN:412:GLU:OE2	2.13	0.49
45:OC:206:ASN:HB3	45:OC:210:TYR:CE1	2.48	0.49
46:OD:167:PHE:CZ	46:OD:233:MET:HG2	2.48	0.49
46:OF:377:MET:HG3	46:OF:380:ARG:NH2	2.28	0.49
45:OG:395:PHE:HZ	45:OG:418:PHE:HB3	1.78	0.49
45:PA:154:LEU:HD12	45:PA:194:LEU:HG	1.94	0.49
45:PE:251:ASP:N	45:PE:254:GLU:OE1	2.42	0.49
46:PF:239:CYS:SG	46:PF:247:ASN:HA	2.52	0.49
45:PG:21:TRP:CZ2	45:PG:65:ALA:HB2	2.48	0.49
45:PI:183:GLU:N	45:PI:184:PRO:HD2	2.27	0.49
46:PJ:66:MET:HA	46:PJ:91:VAL:HG23	1.94	0.49
46:PJ:238:CYS:SG	46:PJ:239:CYS:N	2.85	0.49
45:PK:306:ASP:OD2	45:PK:309:HIS:N	2.46	0.49
45:QE:32:PRO:HG3	45:QE:83:TYR:HE1	1.78	0.49
45:QE:255:PHE:O	45:QE:259:LEU:HB2	2.13	0.49
46:QF:153:SER:HA	46:QF:195:ASN:HD22	1.78	0.49
46:QF:190:HIS:CE1	46:QF:414:ASN:HD22	2.30	0.49
46:QH:251:ARG:HH21	45:QI:407:TRP:HZ3	1.60	0.49
46:QJ:326:VAL:O	46:QJ:330:MET:HG2	2.13	0.49
45:QK:98:ASP:OD1	45:QK:99:ALA:N	2.46	0.49
45:QM:258:ASN:HD21	46:QN:178:THR:HG23	1.77	0.49
45:RA:171:ILE:HG23	45:RA:204:LEU:O	2.13	0.49
45:RA:231:ILE:O	45:RA:235:ILE:HG12	2.13	0.49
46:RD:2:ARG:HH22	46:RD:247:ASN:HD21	1.59	0.49
45:RE:223:THR:HG23	45:RE:225:THR:H	1.77	0.49
45:RE:413:MET:HG3	45:RE:417:GLU:HG3	1.95	0.49
45:RM:183:GLU:N	45:RM:184:PRO:HD2	2.28	0.49
46:SD:318:ARG:HH21	46:SD:358:PRO:HA	1.77	0.49
45:SE:183:GLU:N	45:SE:184:PRO:HD2	2.28	0.49
46:SJ:86:ARG:HD2	46:TJ:282:ARG:HH21	1.77	0.49
46:SJ:379:LYS:O	46:SJ:383:GLU:HG2	2.13	0.49
46:SL:21:TRP:CZ3	46:SL:61:PRO:HB2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:201:VAL:HG12	46:SL:266:PHE:O	2.12	0.49
45:TA:271:SER:HB2	45:TA:377:MET:HG3	1.93	0.49
46:TD:334:GLN:HA	46:TD:341:PHE:CE1	2.48	0.49
45:TG:101:ASN:HA	45:TG:144:GLY:H	1.76	0.49
45:TG:296:PHE:HE1	45:TG:315:CYS:HG	1.59	0.49
45:TI:252:ILE:HA	45:TI:255:PHE:CE2	2.47	0.49
46:TJ:116:VAL:O	46:TJ:120:VAL:HG23	2.13	0.49
45:TK:322:ASP:OD1	45:TK:373:ARG:NH1	2.46	0.49
45:TK:326:LYS:HG2	46:TL:208:TYR:CE1	2.48	0.49
46:UB:145:SER:HB2	46:UB:188:SER:HB3	1.95	0.49
46:UB:214:THR:HG23	46:UB:297:LYS:HZ2	1.78	0.49
45:UC:225:THR:O	45:UC:229:ARG:HG3	2.13	0.49
46:UD:325:GLU:HA	46:UD:328:GLU:HG2	1.95	0.49
45:UE:223:THR:HG23	45:UE:225:THR:H	1.77	0.49
45:UG:205:ASP:OD2	45:UG:303:ALA:HA	2.12	0.49
45:UI:172:TYR:HD2	45:UI:173:PRO:HD2	1.76	0.49
46:UL:200:MET:HE1	46:UL:268:ILE:H	1.77	0.49
45:VA:2:ARG:HH12	46:VD:70:PRO:HD2	1.77	0.49
45:VA:242:LEU:HD11	45:VA:252:ILE:HG12	1.94	0.49
45:VE:21:TRP:CZ2	45:VE:65:ALA:HB2	2.48	0.49
46:VF:12:CYS:O	46:VF:16:ILE:HG12	2.13	0.49
46:VJ:222:TYR:HD1	49:VJ:501:GDP:C6	2.31	0.49
46:VJ:406:MET:SD	46:VJ:407:GLU:N	2.86	0.49
45:VK:69:ASP:OD1	45:VK:70:LEU:N	2.42	0.49
45:WA:7:ILE:HB	45:WA:137:VAL:HG12	1.94	0.49
45:WA:174:SER:HB2	45:WA:177:VAL:O	2.12	0.49
45:WA:331:SER:O	45:WA:335:ILE:HG12	2.13	0.49
46:WF:211:CYS:SG	46:WF:220:PRO:HB3	2.53	0.49
45:WI:387:VAL:O	45:WI:390:ARG:HG2	2.13	0.49
45:WK:67:PHE:HE1	45:WK:87:PHE:CE2	2.30	0.49
46:WL:201:VAL:HG22	46:WL:266:PHE:O	2.13	0.49
45:DC:210:TYR:CE1	45:DC:227:LEU:HD11	2.48	0.49
3:1C:83:SER:HB2	46:EL:355:ASP:HB3	1.95	0.49
8:1H:60:ARG:CZ	46:HN:33:THR:HG23	2.43	0.49
12:1T:225:SER:HB2	45:MC:264:ARG:HD3	1.95	0.49
26:1W:239:ARG:HG2	46:LB:279:GLN:NE2	2.22	0.49
1:2A:67:PRO:HG3	46:MJ:53:GLU:HG3	1.95	0.49
1:2A:152:LYS:NZ	34:5R:78:ILE:O	2.38	0.49
30:2H:218:HIS:O	45:MC:84:ARG:NH1	2.44	0.49
31:3I:285:ARG:HH22	45:FG:55:GLU:HG2	1.76	0.49
34:4R:301:PRO:HD2	46:CF:74:ASP:OD1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4S:64:LEU:HA	35:4S:67:LYS:HZ2	1.77	0.49
36:5A:54:ARG:NH1	36:5A:55:ALA:O	2.46	0.49
36:5D:27:LYS:HZ2	36:5D:30:LYS:HG2	1.78	0.49
37:5F:129:ARG:NE	37:5F:130:PRO:HD2	2.28	0.49
40:6G:101:GLU:O	40:6G:105:LYS:HG2	2.12	0.49
44:8R:177:ALA:HA	44:8R:180:TYR:HD2	1.78	0.49
45:AA:419:SER:O	45:AA:422:ARG:N	2.45	0.49
45:AE:55:GLU:OE2	45:AE:61:HIS:NE2	2.46	0.49
46:AJ:36:TYR:O	46:AJ:37:HIS:ND1	2.43	0.49
46:AL:1:MET:SD	46:AL:2:ARG:N	2.86	0.49
46:AN:229:VAL:HG12	46:AN:233:MET:HE1	1.95	0.49
45:BA:88:HIS:ND1	45:BA:90:GLU:OE1	2.44	0.49
45:BA:280:LYS:HE3	45:BA:284:GLU:OE1	2.13	0.49
45:BA:420:GLU:O	45:BA:423:GLU:HG3	2.12	0.49
45:BI:152:LEU:O	45:BI:155:GLU:HG3	2.13	0.49
46:BJ:233:MET:O	46:BJ:236:VAL:HG12	2.12	0.49
45:CA:136:LEU:HD21	45:CA:138:PHE:CE1	2.48	0.49
45:CC:211:ASP:HB3	45:CC:215:ARG:NH2	2.28	0.49
45:CI:328:VAL:O	45:CI:332:ILE:HG12	2.13	0.49
46:CN:21:TRP:CZ3	46:CN:61:PRO:HB3	2.47	0.49
46:CN:100:ASN:HD22	46:CN:103:LYS:HB2	1.77	0.49
45:DA:324:VAL:HG12	45:DA:326:LYS:H	1.77	0.49
46:DD:207:LEU:HB3	46:DD:225:LEU:HD22	1.94	0.49
46:DF:394:PHE:HD1	46:DF:397:TRP:HZ3	1.60	0.49
45:DI:326:LYS:HG3	45:DI:327:ASP:N	2.27	0.49
46:DJ:10:GLY:O	46:DJ:14:ASN:ND2	2.46	0.49
46:DJ:258:ILE:HD11	45:DK:407:TRP:HZ2	1.77	0.49
46:DJ:325:GLU:H	45:DK:221:ARG:NH1	2.00	0.49
46:DL:100:ASN:HB3	46:DL:103:LYS:HB3	1.94	0.49
45:EC:135:PHE:HB2	45:EC:166:LYS:HG2	1.95	0.49
45:EE:82:THR:HG23	45:EE:83:TYR:CD1	2.48	0.49
45:EE:109:THR:HG22	45:EE:110:ILE:HG23	1.95	0.49
46:EF:360:GLY:O	46:EF:361:LEU:HD22	2.13	0.49
46:EJ:319:GLY:HA3	46:EJ:362:LYS:O	2.13	0.49
45:EM:174:SER:HB2	45:EM:177:VAL:O	2.13	0.49
45:FA:64:ARG:NH1	45:FA:129:CYS:SG	2.86	0.49
45:FA:174:SER:HB2	45:FA:177:VAL:HB	1.93	0.49
46:FB:87:PRO:HA	46:FB:90:PHE:HD2	1.77	0.49
46:FB:286:VAL:HG11	46:FB:326:VAL:HG22	1.95	0.49
46:FB:318:ARG:HB3	46:FB:357:PRO:HA	1.95	0.49
45:FK:277:SER:OG	45:FK:280:LYS:NZ	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FN:222:TYR:O	46:FN:226:ASN:ND2	2.35	0.49
45:GA:135:PHE:HB2	45:GA:166:LYS:HG2	1.95	0.49
46:GB:262:ARG:NH1	46:GB:421:GLU:OE1	2.46	0.49
45:GC:326:LYS:HD2	46:GF:220:PRO:HD2	1.94	0.49
46:GD:390:ARG:O	46:GD:392:LYS:NZ	2.46	0.49
46:GH:41:ASP:OD1	46:GH:41:ASP:N	2.45	0.49
45:GI:194:LEU:O	45:GI:198:THR:HG22	2.13	0.49
46:GJ:293:MET:SD	46:GJ:365:VAL:HG11	2.53	0.49
46:HB:372:THR:HA	46:HB:422:TYR:HE2	1.78	0.49
45:HE:326:LYS:HZ2	46:HH:220:PRO:HD2	1.78	0.49
45:HG:107:HIS:ND1	45:HG:107:HIS:O	2.46	0.49
46:HH:167:PHE:CE2	46:HH:233:MET:HG3	2.48	0.49
45:HI:296:PHE:CE2	45:HI:335:ILE:HG21	2.48	0.49
46:HJ:68:LEU:HD21	46:HJ:147:MET:HE3	1.93	0.49
45:HK:237:SER:HA	45:HK:320:ARG:HH11	1.77	0.49
46:HL:334:GLN:HE22	46:HL:347:ASN:H	1.61	0.49
46:IB:196:ALA:HB3	46:IB:264:HIS:CE1	2.48	0.49
45:IC:187:SER:O	45:IC:191:THR:HG23	2.13	0.49
45:IK:259:LEU:O	45:IK:380:ASN:ND2	2.45	0.49
45:IM:204:LEU:HD22	45:IM:231:ILE:HD12	1.95	0.49
46:JB:221:THR:HG23	46:JB:223:GLY:H	1.76	0.49
46:JD:204:ASN:O	46:JD:208:TYR:HD2	1.95	0.49
46:JF:415:MET:O	46:JF:419:VAL:HG23	2.13	0.49
45:JG:377:MET:SD	45:JG:379:SER:HB3	2.52	0.49
46:JH:64:ILE:HA	46:JH:89:ASN:HB3	1.94	0.49
46:JH:107:THR:OG1	46:JH:108:GLU:OE1	2.31	0.49
45:JK:319:TYR:CE2	45:JK:328:VAL:HG22	2.48	0.49
46:JN:285:THR:HB	46:JN:287:PRO:HD2	1.94	0.49
46:KB:86:ARG:NH1	46:KB:87:PRO:HD2	2.28	0.49
46:LB:253:LEU:O	46:LB:257:LEU:HB2	2.13	0.49
45:LC:140:SER:OG	47:LC:501:GTP:O2B	2.30	0.49
45:LI:221:ARG:HG3	45:LI:221:ARG:HH11	1.78	0.49
45:MC:414:GLU:HB3	45:MC:417:GLU:HG2	1.94	0.49
46:MD:7:ILE:HD13	46:MD:64:ILE:HB	1.95	0.49
46:MD:213:ARG:NH2	46:MD:297:LYS:HG3	2.28	0.49
46:MD:289:LEU:HD13	46:MD:365:VAL:HG23	1.93	0.49
45:ME:171:ILE:HG13	45:ME:204:LEU:O	2.13	0.49
45:MI:104:ALA:HB2	45:MI:413:MET:HE2	1.95	0.49
46:MJ:139:LEU:HD22	46:MJ:170:VAL:HG12	1.94	0.49
46:NB:20:PHE:HA	46:NB:230:SER:HB2	1.95	0.49
45:NE:213:CYS:HB2	45:NE:217:LEU:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NE:372:MET:N	45:NE:372:MET:SD	2.86	0.49
46:NF:167:PHE:CZ	46:NF:233:MET:HG2	2.48	0.49
45:NI:223:THR:HG22	45:NI:224:TYR:N	2.25	0.49
46:OD:324:LYS:HD3	46:OD:327:ASP:HB2	1.94	0.49
46:OH:156:ARG:NH2	46:OH:197:ASP:OD1	2.46	0.49
45:OI:96:LYS:HD2	45:OI:96:LYS:N	2.27	0.49
45:OK:332:ILE:HD12	45:OK:351:PHE:CD2	2.48	0.49
45:PA:99:ALA:O	46:PB:251:ARG:NH2	2.46	0.49
45:PC:183:GLU:N	45:PC:184:PRO:HD2	2.27	0.49
46:PD:201:VAL:HG13	46:PD:301:CYS:SG	2.52	0.49
45:PG:100:ALA:HA	46:PH:252:LYS:HG2	1.95	0.49
45:PG:175:PRO:HG3	45:PG:390:ARG:NH1	2.28	0.49
45:PK:101:ASN:HD22	46:PL:256:ASN:HD21	1.61	0.49
45:PM:190:SER:O	45:PM:194:LEU:HD23	2.12	0.49
46:PN:58:ARG:HH21	46:PN:83:GLN:HE22	1.61	0.49
46:QB:183:TYR:OH	46:QB:388:MET:HG3	2.13	0.49
45:QC:88:HIS:CE1	45:QC:90:GLU:HB3	2.48	0.49
45:QE:262:TYR:HD2	45:QE:265:ILE:HD12	1.76	0.49
46:QF:344:TRP:CD2	45:QG:401:LYS:HE3	2.48	0.49
45:QI:296:PHE:CD2	45:QI:335:ILE:HG12	2.48	0.49
45:QK:21:TRP:CZ2	45:QK:65:ALA:HB2	2.47	0.49
46:QL:102:ALA:H	46:QL:398:TYR:HE2	1.61	0.49
46:RB:262:ARG:CZ	46:RB:418:LEU:HD12	2.42	0.49
45:RC:8:HIS:CD2	45:RC:17:GLY:HA3	2.48	0.49
45:RC:25:CYS:HA	45:RC:30:ILE:HD13	1.95	0.49
45:RE:239:THR:HG23	45:RE:243:ARG:HH21	1.78	0.49
45:RG:288:VAL:HA	45:RG:291:ILE:HG12	1.94	0.49
46:RH:52:ASN:OD1	46:RH:62:ARG:NH2	2.46	0.49
46:RH:254:ALA:O	46:RH:258:ILE:HG12	2.12	0.49
45:RK:171:ILE:HG22	45:RK:204:LEU:HB2	1.94	0.49
46:RL:136:THR:HA	46:RL:167:PHE:HB2	1.95	0.49
46:RL:322:SER:HB2	45:RM:222:PRO:O	2.13	0.49
46:SD:45:GLU:HG3	46:SD:46:ARG:HG2	1.93	0.49
46:SD:268:ILE:HG13	46:SD:300:MET:HE2	1.93	0.49
45:SE:66:VAL:HG11	45:SE:122:ILE:HD11	1.94	0.49
46:SH:254:ALA:O	46:SH:258:ILE:HG12	2.13	0.49
45:SI:90:GLU:HG3	45:SI:121:ARG:NH2	2.27	0.49
45:SI:135:PHE:HE2	45:SI:164:LYS:HG2	1.78	0.49
46:SJ:201:VAL:HG13	46:SJ:301:CYS:SG	2.52	0.49
45:SK:319:TYR:CE1	45:SK:328:VAL:HG22	2.47	0.49
45:TA:212:ILE:HD11	45:TA:300:ASN:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TC:226:ASN:O	45:TC:229:ARG:HG2	2.13	0.49
46:TH:86:ARG:HG3	46:TH:88:ASP:OD1	2.13	0.49
45:TI:286:LEU:O	45:TI:373:ARG:NH1	2.46	0.49
45:TK:399:TYR:O	45:TK:402:ARG:NH1	2.46	0.49
46:TL:318:ARG:HB3	46:TL:357:PRO:HA	1.95	0.49
45:TM:118:CYS:O	45:TM:122:ILE:HG12	2.13	0.49
46:TN:16:ILE:HD12	46:TN:229:VAL:HG11	1.95	0.49
46:UB:274:THR:HB	46:UB:282:ARG:HH11	1.78	0.49
46:UH:310:TYR:CD1	46:UH:371:SER:HB2	2.48	0.49
46:UJ:3:GLU:HA	46:UJ:49:VAL:HG23	1.94	0.49
46:UL:41:ASP:OD1	46:UL:42:LEU:N	2.46	0.49
46:UL:275:SER:O	46:UL:279:GLN:NE2	2.46	0.49
45:UM:344:VAL:HG21	45:UM:346:TRP:CZ2	2.48	0.49
46:VB:31:ASP:OD2	46:VB:37:HIS:ND1	2.46	0.49
46:VB:211:CYS:HA	46:VB:215:LEU:HD12	1.94	0.49
45:VC:88:HIS:CD2	45:WC:280:LYS:HE2	2.47	0.49
45:VC:118:CYS:O	45:VC:122:ILE:HG12	2.12	0.49
47:VC:501:GTP:O1G	46:VD:252:LYS:NZ	2.36	0.49
46:VD:105:HIS:CE1	46:VD:150:LEU:HD12	2.46	0.49
46:VF:332:ASN:O	46:VF:336:LYS:HG2	2.13	0.49
45:VI:206:ASN:HB3	45:VI:210:TYR:CE2	2.45	0.49
45:VK:3:GLU:HG2	45:VK:64:ARG:NH2	2.28	0.49
46:WD:201:VAL:HG22	46:WD:266:PHE:O	2.13	0.49
45:WE:184:PRO:O	45:WE:188:ILE:HG12	2.12	0.49
46:WF:318:ARG:HB3	46:WF:357:PRO:HA	1.95	0.49
45:WG:208:ALA:HA	45:WG:304:LYS:HZ2	1.77	0.49
46:WH:12:CYS:O	46:WH:16:ILE:HG12	2.12	0.49
46:WH:189:VAL:HA	46:WH:192:LEU:HB2	1.93	0.49
46:WH:237:THR:HG23	46:WH:241:ARG:HE	1.78	0.49
45:WM:175:PRO:O	45:WM:390:ARG:NH1	2.44	0.49
45:CE:118:CYS:O	45:CE:122:ILE:HG12	2.13	0.49
2:0B:288:ILE:HG22	46:KL:279:GLN:HB3	1.95	0.49
5:1E:118:ARG:HH22	34:4R:537:LYS:NZ	2.11	0.49
5:1E:121:ARG:O	34:4R:579:ASN:ND2	2.25	0.49
18:1I:189:PHE:CE2	46:KH:70:PRO:HG2	2.48	0.49
18:1I:189:PHE:HE2	46:KH:70:PRO:HG2	1.78	0.49
19:1J:80:LYS:NZ	45:IC:373:ARG:HB2	2.27	0.49
10:1Q:38:THR:H	35:4S:208:GLN:NE2	2.10	0.49
25:1R:291:GLY:HA3	46:DD:276:ARG:HB3	1.95	0.49
25:2R:152:LEU:HA	46:AJ:78:ALA:O	2.13	0.49
1:3A:152:LYS:HE2	34:6R:75:ASN:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:3S:111:LYS:HZ1	46:MN:158:GLU:HB2	1.76	0.49
36:5C:131:ARG:O	36:5C:132:SER:OG	2.26	0.49
37:5E:164:LYS:HG3	37:5E:165:PRO:HD3	1.95	0.49
37:5G:9:TYR:CG	37:5G:10:PRO:HD3	2.48	0.49
37:5G:44:ARG:HG2	37:5G:45:PRO:O	2.12	0.49
37:5G:108:LYS:HA	37:5G:108:LYS:HE2	1.93	0.49
34:5R:463:SER:C	46:FJ:276:ARG:HH12	2.16	0.49
40:6G:93:LYS:HZ3	45:UK:114:ILE:HA	1.78	0.49
34:6R:343:TYR:O	46:CN:32:PRO:HG2	2.13	0.49
45:AC:88:HIS:O	45:AC:91:GLN:HG2	2.13	0.49
45:AC:195:LEU:HD21	45:AC:264:ARG:HD2	1.95	0.49
46:AH:334:GLN:CD	46:AH:349:ILE:HD11	2.34	0.49
45:AM:319:TYR:CD2	45:AM:375:VAL:HG22	2.48	0.49
46:AN:372:THR:HA	46:AN:422:TYR:CE1	2.47	0.49
45:BE:3:GLU:OE2	45:BE:131:GLY:N	2.46	0.49
45:BE:183:GLU:N	45:BE:184:PRO:HD2	2.28	0.49
46:BF:293:MET:HG3	46:BF:367:PHE:HB2	1.95	0.49
45:BM:214:ARG:NE	45:BM:220:GLU:OE2	2.46	0.49
46:CF:278:SER:HA	46:CF:281:TYR:CD2	2.48	0.49
45:CI:324:VAL:HG11	45:CI:326:LYS:HZ2	1.78	0.49
45:CK:21:TRP:CZ3	45:CK:63:PRO:HB3	2.48	0.49
45:CK:175:PRO:HB3	45:CK:390:ARG:CZ	2.43	0.49
45:CM:152:LEU:O	45:CM:156:ARG:HG2	2.12	0.49
46:DB:2:ARG:HH21	46:DB:240:LEU:HG	1.78	0.49
46:DB:313:ALA:HB1	46:DB:367:PHE:HE1	1.77	0.49
45:DI:201:ALA:O	45:DI:268:MET:HB2	2.13	0.49
45:DM:322:ASP:OD1	45:DM:373:ARG:NH1	2.41	0.49
46:DN:289:LEU:HD13	46:DN:365:VAL:HG23	1.95	0.49
45:EC:294:SER:HA	45:EC:297:GLU:OE1	2.13	0.49
46:EH:289:LEU:HD13	46:EH:365:VAL:HG23	1.95	0.49
46:EH:325:GLU:OE2	45:EI:221:ARG:HG2	2.12	0.49
45:EI:338:LYS:HZ2	45:EI:340:THR:H	1.61	0.49
45:EM:69:ASP:O	45:EM:94:SER:HA	2.12	0.49
46:FF:316:LEU:HG	46:FF:352:SER:HB3	1.95	0.49
46:FH:123:GLU:OE2	46:FH:123:GLU:HA	2.13	0.49
45:FI:88:HIS:CE1	45:FI:90:GLU:HG2	2.48	0.49
45:FK:248:LEU:HD12	45:FK:355:ILE:HD12	1.95	0.49
46:FL:287:PRO:HG3	46:FL:329:GLN:NE2	2.27	0.49
46:FN:52:ASN:OD1	46:FN:62:ARG:NH2	2.46	0.49
46:GD:108:GLU:O	46:GD:111:GLU:HG3	2.13	0.49
45:GE:177:VAL:HG13	46:GF:327:ASP:OD2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GF:267:MET:HB2	46:GF:299:MET:SD	2.53	0.49
46:GL:72:THR:O	46:GL:75:SER:OG	2.25	0.49
45:GM:183:GLU:N	45:GM:184:PRO:HD2	2.28	0.49
45:HA:325:PRO:O	45:HA:329:ASN:ND2	2.46	0.49
45:HE:183:GLU:N	45:HE:184:PRO:HD2	2.28	0.49
45:HG:268:MET:HG3	45:HG:380:ASN:HB2	1.95	0.49
46:HJ:109:GLY:HA2	46:HJ:147:MET:HE2	1.94	0.49
45:HK:387:VAL:HA	45:HK:390:ARG:HG2	1.94	0.49
45:IA:14:ILE:HD11	45:IA:69:ASP:HB2	1.95	0.49
45:IG:17:GLY:HA2	45:IG:20:CYS:SG	2.53	0.49
46:IJ:107:THR:HG1	46:IJ:108:GLU:CD	2.15	0.49
46:IJ:247:ASN:ND2	46:IJ:247:ASN:N	2.61	0.49
45:JC:196:GLU:N	45:JC:196:GLU:OE1	2.46	0.49
46:JD:203:ASP:OD2	46:JD:302:ALA:N	2.28	0.49
45:JE:349:THR:HG23	46:JH:179:VAL:HA	1.93	0.49
45:JM:340:THR:HG23	45:JM:341:ILE:HD12	1.94	0.49
46:JN:50:TYR:HE2	46:JN:241:ARG:HD3	1.78	0.49
45:KA:88:HIS:CD2	45:KA:90:GLU:HG2	2.48	0.49
45:KE:2:ARG:HD3	45:KE:2:ARG:H	1.78	0.49
45:KG:72:PRO:HD2	46:KH:2:ARG:HH12	1.78	0.49
46:KL:156:ARG:NH2	46:KL:160:PRO:O	2.46	0.49
46:LD:6:HIS:O	46:LD:63:ALA:HA	2.11	0.49
46:LF:186:THR:HG23	46:LF:187:LEU:HD12	1.94	0.49
45:LG:183:GLU:N	45:LG:184:PRO:HD2	2.28	0.49
45:LI:133:GLN:HG3	45:LI:242:LEU:HD11	1.94	0.49
45:LK:52:PHE:HZ	45:LK:239:THR:HG21	1.78	0.49
45:LK:399:TYR:OH	45:LK:415:GLU:OE2	2.29	0.49
45:MA:109:THR:HG22	45:MA:110:ILE:HG23	1.95	0.49
45:MI:224:TYR:HE2	46:MJ:246:LEU:HD11	1.78	0.49
46:MJ:248:SER:HA	46:MJ:252:LYS:HD3	1.93	0.49
45:NE:288:VAL:HA	45:NE:291:ILE:HG12	1.94	0.49
46:NH:372:THR:HA	46:NH:422:TYR:CE2	2.48	0.49
45:NK:9:VAL:HG22	45:NK:146:GLY:HA2	1.94	0.49
45:NK:121:ARG:NE	45:NK:121:ARG:HA	2.27	0.49
46:NL:316:LEU:HD13	46:NL:352:SER:HB2	1.95	0.49
46:NN:14:ASN:HD22	46:NN:65:LEU:HD23	1.77	0.49
45:OE:88:HIS:ND1	45:OE:90:GLU:HG3	2.27	0.49
45:OE:430:LYS:NZ	45:OE:433:GLU:OE2	2.31	0.49
45:OG:345:ASP:OD2	45:OG:346:TRP:N	2.46	0.49
46:OH:275:SER:O	46:OH:279:GLN:HG2	2.12	0.49
45:OK:328:VAL:O	45:OK:332:ILE:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ON:20:PHE:HZ	46:ON:50:TYR:HE1	1.61	0.49
45:PA:70:LEU:HD11	45:PA:99:ALA:H	1.78	0.49
45:PA:210:TYR:HB3	46:PB:324:LYS:HD2	1.95	0.49
46:PF:73:MET:HA	46:PF:76:VAL:HG12	1.95	0.49
45:PG:320:ARG:NH2	45:PG:359:PRO:O	2.45	0.49
45:PI:254:GLU:HB3	46:PL:98:GLY:HA2	1.95	0.49
45:QA:223:THR:HG23	45:QA:225:THR:HG22	1.94	0.49
45:QA:256:GLN:HB2	45:QA:260:VAL:HB	1.95	0.49
45:QA:329:ASN:HA	45:QA:332:ILE:HG12	1.94	0.49
46:QB:12:CYS:O	46:QB:16:ILE:HG12	2.13	0.49
46:QB:296:ALA:O	46:QB:299:MET:HG2	2.13	0.49
45:QE:69:ASP:HB3	45:QE:75:ILE:HD11	1.95	0.49
46:QF:130:LEU:HD23	46:QF:162:ARG:HG3	1.94	0.49
46:QH:69:GLU:CD	46:QH:71:GLY:H	2.16	0.49
45:RI:434:GLU:O	45:RI:437:ILE:HG22	2.13	0.49
46:RL:221:THR:HG23	46:RL:224:ASP:H	1.78	0.49
45:SC:28:HIS:CE1	45:SC:49:PHE:HA	2.48	0.49
45:SC:153:LEU:O	45:SC:157:LEU:HD23	2.13	0.49
45:SC:260:VAL:HB	46:SD:397:TRP:CZ2	2.41	0.49
46:SF:8:GLN:HE21	46:SF:65:LEU:HG	1.77	0.49
46:SF:138:SER:HA	46:SF:169:VAL:HB	1.95	0.49
46:SH:69:GLU:CD	46:SH:71:GLY:H	2.16	0.49
46:SJ:317:PHE:CD1	46:SJ:365:VAL:HG22	2.48	0.49
45:SK:76:ASP:HA	45:SK:79:ARG:HG2	1.95	0.49
45:SK:280:LYS:HA	45:SK:283:HIS:ND1	2.27	0.49
46:SL:54:ALA:HA	46:TL:283:ALA:HB2	1.95	0.49
45:TM:184:PRO:O	45:TM:188:ILE:HG12	2.13	0.49
46:UB:45:GLU:HG2	46:UB:46:ARG:HG2	1.95	0.49
45:UC:2:ARG:HA	45:UC:133:GLN:HE22	1.77	0.49
46:UD:161:ASP:OD1	46:UD:162:ARG:HG2	2.13	0.49
45:UG:22:GLU:HG3	45:UG:83:TYR:CE2	2.48	0.49
46:UH:267:MET:HB3	46:UH:299:MET:CE	2.41	0.49
46:UJ:58:ARG:HH22	46:UJ:84:LEU:HA	1.78	0.49
46:UJ:70:PRO:HA	46:UJ:73:MET:SD	2.52	0.49
46:UJ:316:LEU:HD13	46:UJ:352:SER:HB2	1.95	0.49
46:UL:9:GLY:HA3	46:UL:66:MET:SD	2.52	0.49
45:VA:141:VAL:HG11	45:VA:172:TYR:CD1	2.47	0.49
45:VC:183:GLU:N	45:VC:184:PRO:HD2	2.28	0.49
46:VF:215:LEU:HD21	46:VF:273:LEU:HD12	1.95	0.49
45:VI:75:ILE:HG23	45:VI:92:LEU:HD23	1.95	0.49
46:VJ:173:PRO:HD3	46:VJ:380:ARG:CZ	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VL:237:THR:HG23	46:VL:241:ARG:HE	1.78	0.49
46:VN:108:GLU:OE2	46:VN:112:LEU:HB2	2.13	0.49
46:VN:175:VAL:HG22	46:VN:205:GLU:HB3	1.95	0.49
46:WD:11:GLN:NE2	49:WD:501:GDP:O3B	2.40	0.49
46:WD:167:PHE:CZ	46:WD:200:MET:HG3	2.48	0.49
46:WN:100:ASN:HD22	46:WN:103:LYS:HB2	1.77	0.49
45:CE:319:TYR:HE2	45:CE:328:VAL:HG22	1.78	0.49
15:0X:81:ARG:HB3	46:MB:276:ARG:HH12	1.78	0.48
7:1G:172:TYR:CE2	45:KA:1:MET:HA	2.48	0.48
19:1J:243:HIS:C	45:II:221:ARG:HD2	2.33	0.48
19:1J:302:PHE:CE1	45:IK:280:LYS:HE2	2.47	0.48
21:1L:753:ARG:HB2	46:BD:362:LYS:NZ	2.27	0.48
21:2L:538:ARG:NH2	46:AN:53:GLU:OE1	2.41	0.48
15:3X:45:GLN:NE2	45:MM:282:TYR:HB3	2.27	0.48
36:5C:103:HIS:ND1	36:5C:104:PRO:HD2	2.28	0.48
36:5D:87:ARG:HH22	45:NM:363:VAL:HG22	1.78	0.48
37:5G:28:SER:OG	37:5G:29:LYS:N	2.46	0.48
34:5R:87:LYS:HE3	34:5R:88:TYR:CZ	2.48	0.48
34:7R:334:LEU:O	34:7R:360:TYR:OH	2.28	0.48
44:8R:113:TYR:OH	45:PI:372:MET:HG3	2.13	0.48
45:AA:221:ARG:CZ	46:AB:322:SER:HB3	2.43	0.48
46:AB:342:VAL:HG13	46:AB:345:ILE:HG22	1.95	0.48
45:AI:256:GLN:HB3	46:AL:397:TRP:CZ3	2.48	0.48
46:BD:324:LYS:HG3	46:BD:325:GLU:N	2.28	0.48
46:BD:334:GLN:NE2	46:BD:348:ASN:OD1	2.46	0.48
45:BE:5:ILE:HD12	45:BE:135:PHE:HE1	1.78	0.48
45:BI:56:THR:HG23	45:BI:58:ALA:H	1.78	0.48
46:BJ:237:THR:HG23	46:BJ:241:ARG:HH21	1.76	0.48
46:BL:293:MET:HE2	46:BL:367:PHE:HB2	1.95	0.48
46:CB:217:LEU:HA	46:CB:276:ARG:HH22	1.78	0.48
45:CC:56:THR:HG23	45:CC:58:ALA:H	1.77	0.48
45:CC:175:PRO:HA	45:CC:390:ARG:NH1	2.28	0.48
46:CF:11:GLN:NE2	49:CF:501:GDP:O1A	2.46	0.48
45:CG:356:ASN:OD1	45:CG:357:TYR:N	2.46	0.48
46:CH:68:LEU:HD23	46:CH:143:THR:OG1	2.13	0.48
46:CH:309:ARG:NH2	46:CH:426:GLN:O	2.44	0.48
46:CJ:201:VAL:HG22	46:CJ:266:PHE:O	2.13	0.48
46:CJ:255:VAL:HG11	45:CK:100:ALA:O	2.12	0.48
45:CM:205:ASP:HB2	45:CM:304:LYS:NZ	2.28	0.48
46:DF:304:ASP:OD2	46:DF:306:ARG:HG2	2.13	0.48
46:DJ:287:PRO:HD3	46:DJ:325:GLU:OE1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:268:MET:CE	45:DK:378:ILE:HG22	2.43	0.48
46:DL:318:ARG:HH11	46:DL:358:PRO:HG3	1.78	0.48
46:ED:99:ASN:HA	46:ED:142:GLY:H	1.78	0.48
45:EE:271:SER:OG	45:EE:301:MET:SD	2.68	0.48
45:EE:277:SER:O	45:EE:281:ALA:N	2.46	0.48
45:EI:288:VAL:HG11	45:EI:327:ASP:HB3	1.94	0.48
46:EJ:3:GLU:HG3	46:EJ:62:ARG:NH1	2.28	0.48
46:EL:58:ARG:HD2	46:FL:280:GLN:HE22	1.77	0.48
45:FA:194:LEU:O	45:FA:198:THR:HG22	2.13	0.48
46:FD:178:THR:HB	46:FD:181:GLU:HG3	1.94	0.48
46:FF:290:THR:HA	46:FF:293:MET:HG2	1.95	0.48
45:GI:56:THR:HG23	45:GI:58:ALA:H	1.78	0.48
46:HD:317:PHE:HB2	46:HD:353:ILE:HD13	1.95	0.48
45:HE:98:ASP:OD2	45:HE:99:ALA:N	2.46	0.48
45:HE:326:LYS:NZ	46:HH:219:THR:HA	2.28	0.48
45:HI:434:GLU:O	45:HI:437:ILE:HG12	2.13	0.48
45:HK:103:PHE:H	45:HK:408:TYR:HE2	1.61	0.48
45:HK:141:VAL:HG11	45:HK:172:TYR:CD1	2.48	0.48
46:HN:289:LEU:O	46:HN:293:MET:HG2	2.13	0.48
45:IA:88:HIS:HE1	45:IA:90:GLU:HB3	1.77	0.48
46:IB:88:ASP:OD2	46:IB:89:ASN:N	2.46	0.48
46:ID:317:PHE:CD1	46:ID:365:VAL:HG22	2.47	0.48
46:IF:274:THR:HB	46:IF:282:ARG:HH11	1.77	0.48
45:II:223:THR:HG23	45:II:225:THR:H	1.78	0.48
46:IJ:53:GLU:HG2	46:IJ:59:TYR:CE2	2.47	0.48
45:IK:346:TRP:CD1	46:IN:391:ARG:HG3	2.48	0.48
45:IM:207:GLU:H	45:IM:304:LYS:HZ1	1.60	0.48
45:JE:258:ASN:HD21	46:JH:179:VAL:H	1.61	0.48
45:JE:272:TYR:HD2	45:JE:275:ILE:HD11	1.78	0.48
46:JF:285:THR:HB	46:JF:287:PRO:HD2	1.95	0.48
45:JG:96:LYS:HE2	45:JG:96:LYS:HA	1.95	0.48
45:JG:155:GLU:HA	45:JG:197:HIS:ND1	2.29	0.48
45:JK:119:LEU:O	45:JK:123:ARG:HG2	2.13	0.48
45:KC:69:ASP:OD2	45:KC:71:GLU:HG2	2.12	0.48
46:KD:10:GLY:O	46:KD:14:ASN:ND2	2.45	0.48
46:KD:380:ARG:O	46:KD:383:GLU:HG3	2.13	0.48
45:KK:49:PHE:CE1	45:KK:55:GLU:HB2	2.43	0.48
45:KK:68:LEU:HD13	45:KK:93:ILE:HB	1.94	0.48
46:LB:260:PHE:HB2	46:LB:263:LEU:HD13	1.94	0.48
45:LC:195:LEU:HD21	45:LC:264:ARG:HD2	1.95	0.48
46:LD:150:LEU:O	46:LD:154:LYS:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LE:21:TRP:CH2	45:LE:63:PRO:HB3	2.47	0.48
45:LE:155:GLU:OE1	45:LE:197:HIS:NE2	2.46	0.48
45:LE:409:VAL:HG22	45:LE:415:GLU:HB3	1.95	0.48
46:LJ:325:GLU:HA	46:LJ:328:GLU:HG3	1.95	0.48
46:MB:52:ASN:OD1	46:MB:62:ARG:NH2	2.46	0.48
45:MC:205:ASP:OD1	45:MC:303:ALA:HA	2.13	0.48
45:MK:47:ASP:HA	45:MK:49:PHE:CE2	2.48	0.48
45:MK:209:ILE:HG21	45:MK:227:LEU:HD13	1.95	0.48
46:MN:321:MET:N	46:MN:321:MET:SD	2.87	0.48
46:MN:375:GLN:OE1	46:MN:423:GLN:HB3	2.13	0.48
45:NC:221:ARG:HA	46:ND:324:LYS:HZ1	1.78	0.48
45:NC:384:ILE:HD11	45:NC:432:TYR:OH	2.13	0.48
46:NH:6:HIS:O	46:NH:63:ALA:HA	2.13	0.48
45:NM:223:THR:HG22	45:NM:224:TYR:H	1.77	0.48
46:OB:20:PHE:O	46:OB:24:ILE:HG12	2.12	0.48
46:OB:380:ARG:O	46:OB:383:GLU:HG3	2.12	0.48
46:OD:86:ARG:HB2	46:OD:89:ASN:OD1	2.13	0.48
45:OE:183:GLU:N	45:OE:184:PRO:HD2	2.27	0.48
46:OF:117:LEU:HA	46:OF:120:VAL:HG12	1.94	0.48
45:OG:21:TRP:CZ2	45:OG:65:ALA:HB2	2.47	0.48
45:OM:84:ARG:HG3	45:OM:85:GLN:OE1	2.12	0.48
45:PE:17:GLY:HA2	45:PE:20:CYS:SG	2.53	0.48
45:PG:356:ASN:OD1	45:PG:357:TYR:N	2.46	0.48
45:PM:211:ASP:O	45:PM:215:ARG:HG2	2.11	0.48
45:PM:230:LEU:HA	45:PM:233:GLN:HE21	1.78	0.48
46:QB:9:GLY:HA2	46:QB:66:MET:O	2.13	0.48
45:QC:181:VAL:HG23	45:QC:182:VAL:HG23	1.95	0.48
45:QC:239:THR:HG23	45:QC:243:ARG:HH21	1.78	0.48
46:QF:204:ASN:HD21	49:QF:501:GDP:N2	2.11	0.48
45:QG:31:GLN:HG2	45:QG:35:GLN:H	1.78	0.48
46:QH:73:MET:HE3	46:QH:92:PHE:HB3	1.95	0.48
45:QI:288:VAL:HG11	45:QI:323:VAL:HG23	1.95	0.48
45:QI:329:ASN:HA	45:QI:332:ILE:HG12	1.95	0.48
46:QJ:268:ILE:HG22	46:QJ:368:VAL:HG22	1.95	0.48
46:QL:284:LEU:HD11	46:QL:362:LYS:HE3	1.95	0.48
45:RG:346:TRP:CD1	46:RH:391:ARG:HG3	2.48	0.48
46:RH:312:THR:HG22	46:RH:370:ASN:HB3	1.93	0.48
45:RK:152:LEU:HA	45:RK:155:GLU:OE1	2.13	0.48
46:RL:222:TYR:HA	46:RL:225:LEU:HD12	1.95	0.48
45:RM:214:ARG:HH11	45:RM:215:ARG:NH1	2.11	0.48
46:RN:74:ASP:OD1	46:RN:77:ARG:NH2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:54:ALA:HB1	46:TB:281:TYR:O	2.13	0.48
46:SB:252:LYS:HA	46:SB:255:VAL:HG12	1.95	0.48
46:SB:289:LEU:HD13	46:SB:365:VAL:HG23	1.95	0.48
46:SF:113:ILE:HG12	46:SF:117:LEU:CD2	2.40	0.48
46:SF:258:ILE:HG13	45:SG:407:TRP:CZ2	2.48	0.48
45:SG:63:PRO:HG2	45:SG:87:PHE:CD2	2.48	0.48
46:SJ:73:MET:HA	46:SJ:76:VAL:HG12	1.95	0.48
46:TD:324:LYS:NZ	45:TE:222:PRO:HG2	2.28	0.48
45:TE:141:VAL:HG12	45:TE:171:ILE:O	2.13	0.48
46:TH:372:THR:HG21	46:TH:426:GLN:HB2	1.95	0.48
45:TK:76:ASP:O	45:TK:80:THR:HG23	2.13	0.48
45:UC:337:THR:O	45:UC:339:ARG:NH1	2.45	0.48
46:UH:97:ALA:O	46:UH:103:LYS:NZ	2.37	0.48
46:UJ:21:TRP:CZ2	46:UJ:63:ALA:HB2	2.48	0.48
46:UJ:341:PHE:HB3	46:UJ:348:ASN:HD21	1.78	0.48
46:UL:214:THR:HG22	46:UL:297:LYS:HE3	1.94	0.48
45:UM:98:ASP:OD1	45:UM:99:ALA:N	2.46	0.48
45:VA:55:GLU:HG3	45:VA:57:GLY:H	1.77	0.48
45:VA:167:LEU:HG	45:VA:200:VAL:HB	1.95	0.48
45:VG:97:GLU:HG2	45:VG:105:ARG:HH22	1.78	0.48
45:VG:356:ASN:OD1	45:VG:357:TYR:N	2.46	0.48
46:VN:317:PHE:CD1	46:VN:365:VAL:HG22	2.48	0.48
45:WA:103:PHE:H	45:WA:408:TYR:HE2	1.60	0.48
45:WA:329:ASN:HA	45:WA:332:ILE:HG12	1.95	0.48
46:WD:288:GLU:HA	46:WD:291:GLN:HG3	1.95	0.48
46:WF:293:MET:HG2	46:WF:365:VAL:HG11	1.94	0.48
45:WG:5:ILE:HG12	45:WG:132:LEU:HD11	1.95	0.48
45:WG:183:GLU:N	45:WG:184:PRO:HD2	2.28	0.48
45:WG:265:ILE:HG12	45:WG:432:TYR:CE1	2.47	0.48
46:WL:6:HIS:NE2	46:WL:8:GLN:OE1	2.46	0.48
45:DC:63:PRO:HG2	45:DC:87:PHE:CE2	2.48	0.48
1:0A:35:TYR:H	46:MB:320:ARG:HH21	1.61	0.48
9:0N:158:THR:HG23	46:KN:227:HIS:CE1	2.47	0.48
14:0V:24:ARG:NH2	45:MM:433:GLU:HB2	2.27	0.48
18:1I:22:LEU:HD11	46:ID:45:GLU:OE2	2.12	0.48
23:1O:260:LEU:HD22	45:UA:372:MET:SD	2.53	0.48
25:1R:245:VAL:HG12	45:BC:57:GLY:HA2	1.94	0.48
1:2A:39:TYR:N	45:MI:77:GLU:OE2	2.45	0.48
29:2G:96:LYS:HE2	46:HJ:56:GLY:H	1.78	0.48
21:2L:525:LEU:CD1	46:BN:320:ARG:HG2	2.44	0.48
31:3I:255:LYS:HE2	45:GI:214:ARG:NH2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:3S:44:LYS:NZ	10:5Q:3:LYS:HB2	2.28	0.48
34:4R:220:ILE:HD12	34:4R:221:PRO:HD2	1.95	0.48
34:4R:542:TYR:HB3	34:4R:547:GLU:OE2	2.13	0.48
35:4S:187:LEU:CB	35:4S:240:MET:HG2	2.43	0.48
36:5B:150:PHE:CZ	45:NG:26:LEU:HD11	2.48	0.48
36:5C:150:PHE:CE1	45:NK:26:LEU:HD11	2.47	0.48
37:5E:133:PRO:O	37:5E:137:VAL:HG23	2.13	0.48
37:5G:164:LYS:H	37:5G:165:PRO:CD	2.26	0.48
10:6Q:61:ALA:HB3	10:6Q:62:PRO:HD3	1.95	0.48
34:7R:555:ASN:O	34:7R:575:ARG:NH2	2.44	0.48
42:8L:60:UNK:C	46:SL:276:ARG:HH22	2.25	0.48
45:AA:60:LYS:NZ	45:AA:85:GLN:O	2.46	0.48
45:AI:9:VAL:HG23	45:AI:139:ASN:HB3	1.95	0.48
46:AN:309:ARG:N	46:AN:426:GLN:HE22	2.11	0.48
46:BJ:113:ILE:O	46:BJ:117:LEU:HD23	2.12	0.48
46:CD:178:THR:HB	46:CD:181:GLU:OE2	2.14	0.48
46:CF:232:ALA:HB1	46:CF:268:ILE:HD12	1.96	0.48
46:CH:5:VAL:HG12	46:CH:62:ARG:HD3	1.94	0.48
46:CJ:116:VAL:HA	46:CJ:119:VAL:HG22	1.95	0.48
46:CJ:193:VAL:HG22	46:CJ:262:ARG:NH1	2.28	0.48
45:CK:174:SER:HB2	45:CK:177:VAL:O	2.14	0.48
46:CL:268:ILE:HG13	46:CL:300:MET:HG3	1.95	0.48
45:DA:188:ILE:HD12	45:DA:425:LEU:HD11	1.94	0.48
46:DD:326:VAL:HG12	46:DD:330:MET:CE	2.43	0.48
45:DE:280:LYS:HB3	45:CE:89:PRO:HG2	1.95	0.48
45:DG:271:SER:HA	45:DG:302:MET:HG2	1.95	0.48
45:DG:334:THR:O	45:DG:338:LYS:HE3	2.12	0.48
46:DH:66:MET:HE2	46:DH:147:MET:HG2	1.95	0.48
46:DN:262:ARG:NH1	46:DN:421:GLU:OE1	2.46	0.48
46:EB:97:ALA:HB3	46:EB:143:THR:HB	1.95	0.48
45:EE:231:ILE:O	45:EE:235:ILE:HG12	2.14	0.48
45:EG:231:ILE:O	45:EG:235:ILE:HG12	2.13	0.48
46:EH:405:GLU:HA	46:EH:408:PHE:HD2	1.77	0.48
46:EJ:12:CYS:HA	46:EJ:15:GLN:NE2	2.27	0.48
46:EL:374:ILE:HG12	46:EL:378:PHE:HE1	1.78	0.48
45:EM:408:TYR:HB3	45:EM:413:MET:HE3	1.95	0.48
46:EN:16:ILE:HD12	46:EN:229:VAL:HG11	1.96	0.48
46:FD:156:ARG:CZ	46:FD:195:ASN:HA	2.43	0.48
46:FF:248:SER:HA	46:FF:252:LYS:HD2	1.94	0.48
46:FH:11:GLN:HE22	49:FH:501:GDP:PA	2.36	0.48
46:FH:215:LEU:HD21	46:FH:273:LEU:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FH:318:ARG:HG2	46:FH:354:CYS:SG	2.53	0.48
46:FJ:97:ALA:HB3	46:FJ:143:THR:HB	1.95	0.48
45:FM:212:ILE:HD11	45:FM:300:ASN:HA	1.94	0.48
45:GC:398:MET:HG2	46:GD:345:ILE:HD12	1.95	0.48
45:GE:98:ASP:OD2	45:GE:99:ALA:N	2.46	0.48
46:GH:103:LYS:HA	46:GH:107:THR:HG22	1.95	0.48
45:GI:238:LEU:HD11	45:GI:255:PHE:CE2	2.49	0.48
45:GI:285:GLN:HE22	45:GI:287:SER:CB	2.21	0.48
46:HF:16:ILE:HD13	46:HF:226:ASN:OD1	2.13	0.48
45:HG:386:GLU:O	45:HG:390:ARG:HG2	2.12	0.48
45:IE:174:SER:HB3	45:IE:177:VAL:O	2.13	0.48
45:IE:183:GLU:N	45:IE:184:PRO:HD2	2.28	0.48
45:IG:215:ARG:NE	45:IG:216:ASN:OD1	2.37	0.48
45:IG:326:LYS:HZ1	46:IJ:219:THR:HA	1.78	0.48
46:IH:186:THR:HA	46:IH:189:VAL:HG12	1.95	0.48
46:IJ:211:CYS:HB2	46:IJ:217:LEU:HD21	1.93	0.48
45:IK:122:ILE:HG21	45:IK:157:LEU:HD11	1.94	0.48
46:IL:286:VAL:HB	46:IL:325:GLU:OE2	2.13	0.48
45:IM:120:ASP:OD1	45:IM:124:LYS:NZ	2.46	0.48
45:IM:387:VAL:HG12	45:IM:390:ARG:NH1	2.28	0.48
46:IN:113:ILE:HD13	46:IN:150:LEU:HD22	1.95	0.48
46:JH:8:GLN:NE2	46:JH:65:LEU:HB3	2.27	0.48
46:JJ:73:MET:CE	46:JJ:92:PHE:HB3	2.42	0.48
45:JK:205:ASP:OD2	45:JK:304:LYS:N	2.39	0.48
45:JM:222:PRO:HD2	46:JN:324:LYS:CD	2.42	0.48
46:JN:190:HIS:CD2	46:JN:414:ASN:HD22	2.31	0.48
45:KA:349:THR:O	46:KD:179:VAL:HG23	2.13	0.48
45:KC:115:VAL:O	45:KC:119:LEU:HD23	2.13	0.48
46:KH:8:GLN:HE21	46:KH:65:LEU:CD2	2.25	0.48
45:KI:301:MET:HA	45:KI:301:MET:HE3	1.94	0.48
46:KJ:32:PRO:HG3	46:KJ:81:PHE:HE2	1.78	0.48
46:KJ:211:CYS:SG	46:KJ:220:PRO:HB3	2.53	0.48
46:KN:201:VAL:HG21	46:KN:374:ILE:HD11	1.95	0.48
45:LA:311:LYS:N	45:LA:382:THR:OG1	2.44	0.48
46:LB:139:LEU:HD22	46:LB:188:SER:HB2	1.95	0.48
46:LD:58:ARG:NH1	46:MD:280:GLN:HE22	2.11	0.48
46:LH:206:ALA:O	46:LH:210:ILE:HG12	2.13	0.48
45:LI:407:TRP:CH2	46:LJ:255:VAL:HA	2.48	0.48
46:LJ:68:LEU:HD12	46:LJ:97:ALA:HB2	1.95	0.48
46:LJ:372:THR:HA	46:LJ:422:TYR:CE2	2.48	0.48
46:LL:32:PRO:HA	46:LL:84:LEU:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LL:186:THR:HA	46:LL:189:VAL:HG12	1.94	0.48
45:ME:183:GLU:N	45:ME:184:PRO:HD2	2.27	0.48
46:MJ:192:LEU:HD21	46:MJ:199:CYS:HB2	1.95	0.48
46:NB:32:PRO:HD3	46:NB:81:PHE:HE1	1.77	0.48
45:NC:128:ASN:HD21	45:OC:285:GLN:HE21	1.59	0.48
45:NG:111:GLY:O	45:NG:115:VAL:HG13	2.13	0.48
45:NG:274:PRO:HG3	45:NG:286:LEU:HD13	1.94	0.48
46:NH:256:ASN:ND2	46:NH:350:LYS:HE3	2.28	0.48
45:NK:105:ARG:HA	45:NK:109:THR:HB	1.94	0.48
46:OB:97:ALA:HB3	46:OB:143:THR:HB	1.95	0.48
46:OB:211:CYS:HB3	46:OB:217:LEU:HD21	1.94	0.48
45:OE:100:ALA:HA	46:OF:252:LYS:HG2	1.95	0.48
46:OH:6:HIS:HE1	46:OH:136:THR:HG23	1.77	0.48
45:OI:275:ILE:HG23	45:OI:368:LEU:HD11	1.95	0.48
46:ON:314:SER:OG	46:ON:368:VAL:HB	2.14	0.48
45:PC:100:ALA:O	46:PD:255:VAL:HG21	2.13	0.48
45:PE:141:VAL:HG11	45:PE:172:TYR:HD1	1.78	0.48
45:PE:264:ARG:HB2	45:PE:264:ARG:NH1	2.28	0.48
45:PG:154:LEU:HD22	45:PG:166:LYS:HD3	1.94	0.48
45:PG:222:PRO:HD2	46:PH:324:LYS:NZ	2.28	0.48
45:PI:51:THR:HG21	45:PI:243:ARG:HB3	1.95	0.48
46:PL:173:PRO:HD3	46:PL:380:ARG:CZ	2.43	0.48
45:QA:193:SER:O	45:QA:197:HIS:ND1	2.44	0.48
46:QB:97:ALA:HB3	46:QB:143:THR:HB	1.95	0.48
46:QD:99:ASN:HA	46:QD:142:GLY:H	1.77	0.48
45:QE:88:HIS:HB3	45:QE:91:GLN:CG	2.43	0.48
46:QF:5:VAL:HG11	46:QF:123:GLU:OE1	2.14	0.48
45:QI:268:MET:CE	45:QI:378:ILE:HG22	2.43	0.48
45:QK:221:ARG:HD2	45:QK:221:ARG:HA	1.62	0.48
45:QM:340:THR:HG23	45:QM:341:ILE:HG13	1.95	0.48
46:QN:6:HIS:O	46:QN:63:ALA:HA	2.13	0.48
46:QN:16:ILE:HD12	46:QN:229:VAL:HG11	1.94	0.48
45:RA:295:ALA:HB1	45:RA:377:MET:CE	2.43	0.48
45:RE:68:LEU:HD13	45:RE:93:ILE:HB	1.94	0.48
45:RI:138:PHE:CD1	45:RI:169:PHE:HB2	2.49	0.48
46:RL:22:GLU:HA	46:RL:81:PHE:CD2	2.48	0.48
46:RL:414:ASN:O	46:RL:418:LEU:HD23	2.13	0.48
45:RM:371:VAL:HG12	45:RM:373:ARG:H	1.78	0.48
45:SA:280:LYS:HD3	45:SA:283:HIS:ND1	2.28	0.48
45:SG:296:PHE:HE2	45:SG:335:ILE:HD12	1.77	0.48
45:SI:183:GLU:N	45:SI:184:PRO:HD2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SN:229:VAL:HG12	46:SN:233:MET:HE2	1.95	0.48
45:TC:336:LYS:HE3	45:TC:351:PHE:CE1	2.48	0.48
45:TC:390:ARG:HG3	45:TC:391:LEU:HD12	1.96	0.48
45:TI:387:VAL:HA	45:TI:390:ARG:HG2	1.95	0.48
46:TL:31:ASP:HB3	46:TL:37:HIS:HD2	1.79	0.48
46:TL:327:ASP:HA	46:TL:330:MET:HG3	1.95	0.48
45:TM:68:LEU:HD11	45:TM:118:CYS:HB2	1.95	0.48
45:UA:231:ILE:O	45:UA:235:ILE:HG12	2.13	0.48
46:UB:2:ARG:O	46:UB:131:GLN:NE2	2.46	0.48
46:UB:10:GLY:O	46:UB:14:ASN:ND2	2.45	0.48
45:UC:171:ILE:HG23	45:UC:204:LEU:O	2.12	0.48
45:UG:132:LEU:HD22	45:UG:164:LYS:HE2	1.95	0.48
46:UH:64:ILE:HD13	46:UH:119:VAL:HG13	1.95	0.48
45:UI:265:ILE:HG22	45:UI:380:ASN:HD21	1.77	0.48
45:UK:207:GLU:HA	45:UK:210:TYR:CD2	2.48	0.48
45:UM:88:HIS:CE1	45:UM:90:GLU:HG3	2.48	0.48
45:VA:121:ARG:NH2	45:VA:124:LYS:HD2	2.21	0.48
45:VA:324:VAL:HG11	45:VA:326:LYS:NZ	2.26	0.48
46:VD:117:LEU:HD13	46:VD:121:ARG:HH22	1.77	0.48
45:VE:145:THR:OG1	47:VE:501:GTP:O3G	2.19	0.48
45:VG:260:VAL:HB	46:VJ:397:TRP:CZ2	2.48	0.48
46:VH:117:LEU:HA	46:VH:120:VAL:HG12	1.94	0.48
45:VI:107:HIS:ND1	45:VI:107:HIS:O	2.46	0.48
45:VI:285:GLN:O	45:VI:373:ARG:NH2	2.46	0.48
46:VJ:8:GLN:HG3	46:VJ:14:ASN:ND2	2.28	0.48
45:VK:223:THR:HG23	45:VK:225:THR:H	1.78	0.48
45:VK:352:LYS:HE2	46:VN:179:VAL:HG22	1.94	0.48
46:VL:49:VAL:HG11	46:VL:241:ARG:HG2	1.95	0.48
46:VL:238:CYS:SG	46:VL:318:ARG:NH1	2.86	0.48
45:WA:156:ARG:HG2	45:WA:156:ARG:HH11	1.78	0.48
46:WD:16:ILE:HD13	46:WD:226:ASN:OD1	2.12	0.48
46:WJ:268:ILE:HG22	46:WJ:368:VAL:HG13	1.95	0.48
46:WJ:290:THR:HG21	46:WJ:329:GLN:HG3	1.94	0.48
45:WM:183:GLU:N	45:WM:184:PRO:HD2	2.28	0.48
7:0G:26:LYS:NZ	45:IK:84:ARG:HD2	2.28	0.48
19:1J:54:ASN:HA	45:IC:221:ARG:NH1	2.28	0.48
19:1J:247:PRO:HB3	45:II:217:LEU:O	2.13	0.48
9:1N:215:CYS:SG	46:KJ:32:PRO:HG2	2.52	0.48
24:1P:302:LYS:HZ1	46:TD:362:LYS:HG2	1.79	0.48
24:1P:365:GLU:HG2	46:TB:359:LYS:HE2	1.94	0.48
25:1R:153:LYS:HZ3	46:AF:75:SER:HB2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:2C:65:PHE:HD2	45:LI:32:PRO:HB2	1.77	0.48
15:2X:97:GLN:NE2	45:LG:58:ALA:HB1	2.27	0.48
34:4R:219:LYS:HE3	46:BH:78:ALA:HB3	1.94	0.48
34:5R:285:THR:N	34:5R:306:ARG:HH22	2.12	0.48
34:5R:414:ASN:O	34:5R:418:THR:HG22	2.13	0.48
39:6F:70:ASN:HA	46:JF:361:LEU:HD12	1.95	0.48
10:6Q:136:LEU:O	10:6Q:140:THR:HG23	2.13	0.48
34:7R:317:HIS:O	46:CB:227:HIS:NE2	2.47	0.48
46:AF:244:GLY:HA2	46:AF:355:ASP:OD1	2.13	0.48
45:AI:322:ASP:OD1	45:AI:373:ARG:NH1	2.46	0.48
46:BD:2:ARG:HB2	46:BD:131:GLN:NE2	2.29	0.48
46:BD:117:LEU:HA	46:BD:120:VAL:HG12	1.94	0.48
45:BG:261:PRO:HA	46:BJ:394:PHE:CE2	2.48	0.48
46:BH:274:THR:HG23	46:BH:279:GLN:OE1	2.13	0.48
45:BK:272:TYR:HD1	45:BK:275:ILE:HD11	1.79	0.48
46:BL:36:TYR:CZ	46:BL:44:LEU:HD11	2.47	0.48
45:BM:207:GLU:OE1	45:BM:207:GLU:N	2.46	0.48
46:CB:376:GLU:HA	46:CB:379:LYS:NZ	2.27	0.48
46:CF:322:SER:O	45:CG:221:ARG:NH2	2.45	0.48
46:CJ:208:TYR:CE1	46:CJ:225:LEU:HD11	2.48	0.48
45:CK:252:ILE:HA	45:CK:255:PHE:CD1	2.49	0.48
46:DB:86:ARG:CZ	46:EB:278:SER:HA	2.43	0.48
45:DE:17:GLY:HA2	45:DE:20:CYS:SG	2.53	0.48
45:DE:31:GLN:HG2	45:DE:35:GLN:O	2.13	0.48
46:DL:66:MET:HE1	46:DL:147:MET:HG2	1.94	0.48
46:DL:256:ASN:HD21	46:DL:350:LYS:CE	2.25	0.48
46:DN:309:ARG:NH2	46:DN:426:GLN:O	2.39	0.48
45:EC:136:LEU:HD23	45:EC:167:LEU:HB2	1.95	0.48
45:EC:155:GLU:HG2	45:EC:197:HIS:CD2	2.49	0.48
45:EC:260:VAL:HB	46:ED:397:TRP:CZ2	2.46	0.48
46:EF:246:LEU:O	46:EF:352:SER:OG	2.28	0.48
45:EK:26:LEU:HD22	45:EK:364:PRO:HD3	1.95	0.48
45:EK:423:GLU:OE1	45:EK:423:GLU:N	2.46	0.48
46:EL:103:LYS:HG2	46:EL:108:GLU:OE2	2.13	0.48
45:EM:288:VAL:HA	45:EM:291:ILE:HG12	1.93	0.48
45:FA:377:MET:HE1	45:FA:379:SER:HB3	1.95	0.48
46:FB:238:CYS:SG	46:FB:239:CYS:N	2.87	0.48
46:FF:407:GLU:O	46:FF:410:GLU:HG3	2.13	0.48
45:FK:221:ARG:HG3	46:FL:322:SER:OG	2.12	0.48
45:FK:384:ILE:O	45:FK:387:VAL:HG22	2.13	0.48
46:GB:257:LEU:HD12	46:GB:312:THR:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GD:294:PHE:CD2	46:GD:333:VAL:HG11	2.48	0.48
45:GK:256:GLN:N	45:GK:256:GLN:OE1	2.45	0.48
45:GK:272:TYR:HD2	45:GK:275:ILE:HD11	1.78	0.48
45:GM:280:LYS:HD3	45:GM:283:HIS:ND1	2.28	0.48
46:GN:377:MET:O	46:GN:381:VAL:HG22	2.13	0.48
45:HA:180:ALA:HA	46:HB:350:LYS:HD2	1.94	0.48
46:HB:164:MET:H	46:HB:197:ASP:HB2	1.78	0.48
46:HD:44:LEU:HA	46:HD:47:ILE:HB	1.95	0.48
45:IA:183:GLU:N	45:IA:184:PRO:HD2	2.28	0.48
46:IB:299:MET:HE2	46:IB:301:CYS:HB2	1.96	0.48
45:IC:244:PHE:HB2	45:IC:356:ASN:HD21	1.77	0.48
45:IE:207:GLU:OE2	45:IE:304:LYS:NZ	2.28	0.48
45:IE:296:PHE:HZ	45:IE:315:CYS:HG	1.61	0.48
45:IG:227:LEU:O	45:IG:231:ILE:HG12	2.13	0.48
45:JA:112:LYS:HA	45:JA:115:VAL:HG22	1.94	0.48
46:JB:377:MET:HA	46:JB:377:MET:HE3	1.95	0.48
46:JD:21:TRP:CH2	46:JD:61:PRO:HB3	2.48	0.48
46:JF:218:THR:HG23	46:JF:219:THR:HG23	1.95	0.48
45:JG:191:THR:HA	45:JG:194:LEU:HG	1.95	0.48
46:JL:187:LEU:HD11	46:JL:408:PHE:HE2	1.78	0.48
46:JL:304:ASP:OD2	46:JL:306:ARG:NH1	2.46	0.48
45:KA:346:TRP:CD1	46:KD:391:ARG:HG3	2.48	0.48
46:KF:208:TYR:CE1	46:KF:225:LEU:HD11	2.48	0.48
45:KG:10:GLY:O	45:KG:14:ILE:HG12	2.13	0.48
45:KI:121:ARG:CZ	45:KI:124:LYS:HD3	2.42	0.48
46:KL:239:CYS:SG	46:KL:247:ASN:HA	2.53	0.48
46:KL:275:SER:O	46:KL:279:GLN:HG3	2.13	0.48
45:KM:407:TRP:HE1	46:KN:258:ILE:HG13	1.78	0.48
46:KN:2:ARG:HD2	46:KN:240:LEU:HD11	1.94	0.48
46:KN:121:ARG:NH2	46:KN:158:GLU:OE2	2.42	0.48
45:LG:102:ASN:ND2	45:LG:105:ARG:HG3	2.29	0.48
45:LI:107:HIS:ND1	45:LI:107:HIS:O	2.47	0.48
46:MB:317:PHE:HB2	46:MB:353:ILE:HD13	1.95	0.48
46:MJ:180:VAL:O	46:MJ:180:VAL:HG12	2.13	0.48
46:MN:3:GLU:HG3	46:MN:62:ARG:NH1	2.28	0.48
45:NA:28:HIS:CE1	45:NA:49:PHE:HB3	2.48	0.48
45:NC:345:ASP:OD1	45:NC:346:TRP:N	2.46	0.48
45:NE:280:LYS:HE3	45:NE:282:TYR:O	2.13	0.48
46:NF:4:ILE:HG13	46:NF:132:GLY:O	2.14	0.48
45:NK:279:GLU:HG2	45:NK:280:LYS:N	2.22	0.48
45:OA:88:HIS:O	45:OA:91:GLN:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OE:88:HIS:ND1	45:OE:89:PRO:HD2	2.29	0.48
46:OL:321:MET:SD	46:OL:321:MET:N	2.86	0.48
45:OM:137:VAL:HG23	45:OM:168:GLY:HA2	1.95	0.48
45:OM:286:LEU:N	45:OM:290:GLU:OE2	2.46	0.48
45:PA:258:ASN:HB3	45:PA:352:LYS:HE3	1.95	0.48
45:PA:407:TRP:HH2	46:PB:258:ILE:HB	1.79	0.48
45:PC:70:LEU:HA	45:PC:95:GLY:H	1.78	0.48
46:PD:252:LYS:O	46:PD:256:ASN:HB2	2.13	0.48
46:PD:313:ALA:HB1	46:PD:367:PHE:HE1	1.79	0.48
45:PG:254:GLU:O	45:PG:258:ASN:ND2	2.46	0.48
46:PL:273:LEU:N	46:PL:292:GLN:HE22	2.08	0.48
45:PM:196:GLU:OE2	45:PM:264:ARG:NH1	2.44	0.48
46:PN:86:ARG:HD2	46:QL:281:TYR:CD2	2.48	0.48
46:QB:10:GLY:O	46:QB:14:ASN:ND2	2.47	0.48
45:QC:244:PHE:HB2	45:QC:356:ASN:HD21	1.77	0.48
45:QE:105:ARG:O	45:QE:110:ILE:HG12	2.14	0.48
45:QG:331:SER:O	45:QG:335:ILE:HG23	2.14	0.48
46:QH:158:GLU:HG2	46:QH:159:TYR:CD1	2.48	0.48
45:QI:52:PHE:HZ	45:QI:239:THR:HG21	1.77	0.48
45:QI:101:ASN:HA	45:QI:144:GLY:H	1.78	0.48
45:QI:288:VAL:HA	45:QI:291:ILE:HG12	1.95	0.48
46:QJ:55:THR:HG23	46:RJ:283:ALA:HA	1.94	0.48
46:QJ:86:ARG:HH22	46:RJ:282:ARG:HA	1.77	0.48
45:QK:51:THR:HG21	45:QK:243:ARG:HB3	1.95	0.48
46:QL:145:SER:HB2	46:QL:188:SER:HB3	1.95	0.48
45:QM:17:GLY:HA2	45:QM:20:CYS:SG	2.52	0.48
46:RD:148:GLY:O	46:RD:152:ILE:HG12	2.13	0.48
46:RF:68:LEU:HD13	46:RF:143:THR:OG1	2.14	0.48
46:RF:86:ARG:NH2	46:SF:282:ARG:HB2	2.27	0.48
45:RI:338:LYS:HG2	45:RI:340:THR:HG22	1.94	0.48
46:RJ:409:THR:HA	46:RJ:412:GLU:OE1	2.13	0.48
45:RK:274:PRO:HG3	45:RK:286:LEU:HD12	1.96	0.48
45:RK:293:ASN:O	45:RK:297:GLU:HG2	2.12	0.48
46:SB:316:LEU:HD13	46:SB:352:SER:OG	2.12	0.48
46:SD:256:ASN:OD1	45:SE:181:VAL:HG22	2.14	0.48
46:SF:3:GLU:OE1	46:SF:3:GLU:HA	2.14	0.48
45:SK:277:SER:O	45:SK:281:ALA:N	2.46	0.48
45:TC:387:VAL:HG12	45:TC:390:ARG:HE	1.77	0.48
45:TG:152:LEU:HG	45:TG:156:ARG:NH1	2.28	0.48
46:TL:49:VAL:HG21	46:TL:241:ARG:HB3	1.94	0.48
46:TN:198:GLU:HG2	46:TN:266:PHE:HE2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UB:73:MET:HE3	46:UB:77:ARG:NH2	2.28	0.48
46:UF:131:GLN:C	46:UF:162:ARG:HE	2.15	0.48
46:UJ:105:HIS:CE1	46:UJ:150:LEU:HD12	2.47	0.48
46:UL:73:MET:HA	46:UL:76:VAL:HG12	1.94	0.48
45:UM:294:SER:O	45:UM:297:GLU:HG2	2.13	0.48
46:UN:117:LEU:O	46:UN:121:ARG:HG3	2.14	0.48
46:UN:318:ARG:NE	46:UN:364:ALA:HB3	2.28	0.48
45:VA:88:HIS:CD2	45:VA:90:GLU:HG3	2.48	0.48
46:VB:58:ARG:HD2	46:VB:59:TYR:N	2.28	0.48
45:VE:251:ASP:OD2	45:VE:252:ILE:N	2.46	0.48
45:VK:352:LYS:NZ	46:VN:179:VAL:H	2.09	0.48
45:VM:167:LEU:HG	45:VM:200:VAL:HB	1.94	0.48
45:WA:118:CYS:O	45:WA:122:ILE:HG12	2.13	0.48
46:WB:178:THR:HB	46:WB:181:GLU:HG3	1.96	0.48
45:WC:46:ASP:OD1	45:WC:47:ASP:N	2.46	0.48
45:WC:356:ASN:OD1	45:WC:357:TYR:N	2.46	0.48
45:WE:51:THR:HG23	45:WE:52:PHE:CD1	2.49	0.48
45:WK:433:GLU:O	45:WK:437:ILE:HG23	2.13	0.48
46:WL:105:HIS:CE1	46:WL:150:LEU:HD13	2.47	0.48
45:DC:70:LEU:HD13	45:DC:145:THR:OG1	2.13	0.48
23:1O:152:CYS:HA	45:UE:370:LYS:NZ	2.29	0.48
31:2I:95:LYS:HA	46:GF:332:ASN:OD1	2.11	0.48
31:2I:118:LYS:HZ2	45:GC:342:GLN:HE21	1.58	0.48
13:2U:124:ASP:HB2	46:WJ:276:ARG:HH12	1.77	0.48
25:3R:245:VAL:HG12	45:BK:57:GLY:HA2	1.94	0.48
35:4S:106:PHE:HD1	35:4S:142:LEU:HD22	1.77	0.48
37:5F:188:GLN:NE2	37:5F:192:ASN:OD1	2.45	0.48
37:5H:27:ARG:NH2	45:OK:221:ARG:O	2.47	0.48
46:AB:148:GLY:O	46:AB:151:LEU:HG	2.12	0.48
46:AD:256:ASN:ND2	46:AD:350:LYS:HD3	2.28	0.48
46:AH:237:THR:HG22	46:AH:250:LEU:HD11	1.94	0.48
46:AJ:190:HIS:CE1	46:AJ:414:ASN:HD22	2.31	0.48
45:AK:176:GLN:O	46:AL:347:ASN:ND2	2.45	0.48
45:BC:100:ALA:HA	46:BD:252:LYS:HG2	1.94	0.48
45:BC:120:ASP:HA	45:BC:123:ARG:HH12	1.78	0.48
46:BH:2:ARG:HB2	46:BH:131:GLN:NE2	2.11	0.48
46:BJ:58:ARG:HD3	46:CH:280:GLN:NE2	2.29	0.48
45:BM:292:THR:HG21	45:BM:331:SER:HB3	1.95	0.48
46:BN:21:TRP:HA	46:BN:24:ILE:HG22	1.95	0.48
46:BN:178:THR:HG22	46:BN:180:VAL:H	1.78	0.48
46:CB:334:GLN:HA	46:CB:341:PHE:HE2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CD:287:PRO:HA	46:CD:329:GLN:HE22	1.78	0.48
46:CF:141:GLY:O	46:CF:145:SER:CB	2.62	0.48
46:CH:139:LEU:HG	46:CH:168:SER:HB3	1.93	0.48
46:CL:8:GLN:HG3	46:CL:14:ASN:OD1	2.12	0.48
45:DA:147:SER:HB2	45:DA:190:SER:HB3	1.94	0.48
45:DG:326:LYS:HZ2	46:DH:220:PRO:HD2	1.79	0.48
46:DL:313:ALA:HB1	46:DL:367:PHE:HE1	1.78	0.48
46:DN:372:THR:HA	46:DN:422:TYR:HE2	1.78	0.48
45:EC:116:ASP:OD1	45:EC:116:ASP:N	2.47	0.48
46:ED:258:ILE:HG23	46:ED:266:PHE:HZ	1.79	0.48
45:EE:331:SER:O	45:EE:335:ILE:HG12	2.14	0.48
46:EJ:6:HIS:O	46:EJ:63:ALA:HA	2.12	0.48
45:EK:107:HIS:ND1	45:EK:107:HIS:O	2.47	0.48
45:EK:338:LYS:NZ	45:EK:340:THR:HG22	2.28	0.48
46:EL:375:GLN:OE1	46:EL:423:GLN:HB3	2.14	0.48
45:FC:210:TYR:HB3	46:FD:324:LYS:NZ	2.28	0.48
46:FF:200:MET:HG2	46:FF:266:PHE:HB2	1.94	0.48
45:FI:253:THR:O	45:FI:256:GLN:NE2	2.47	0.48
46:FL:86:ARG:NH1	46:GL:281:TYR:HB3	2.28	0.48
46:FL:101:TRP:HB2	46:FL:184:ASN:HB3	1.96	0.48
45:FM:108:TYR:HA	45:FM:112:LYS:HE3	1.94	0.48
46:FN:10:GLY:O	46:FN:14:ASN:ND2	2.46	0.48
45:GA:210:TYR:CE1	45:GA:227:LEU:HD11	2.49	0.48
46:GD:257:LEU:HD21	46:GD:314:SER:HB2	1.96	0.48
45:GE:2:ARG:CB	45:GE:133:GLN:HE22	2.23	0.48
45:GE:55:GLU:OE1	45:GE:61:HIS:NE2	2.47	0.48
45:GE:326:LYS:NZ	46:GH:208:TYR:HE1	2.12	0.48
46:GH:372:THR:HA	46:GH:422:TYR:CE2	2.48	0.48
45:HA:293:ASN:O	45:HA:297:GLU:HG2	2.14	0.48
45:HI:296:PHE:HE1	45:HI:377:MET:HE3	1.78	0.48
46:HJ:154:LYS:O	46:HJ:157:GLU:HG2	2.14	0.48
45:HK:11:GLN:HE21	45:HK:15:GLN:HE22	1.60	0.48
46:HL:350:LYS:NZ	46:HL:352:SER:HG	2.11	0.48
45:IE:155:GLU:HA	45:IE:197:HIS:CE1	2.48	0.48
46:IF:31:ASP:HB3	46:IF:37:HIS:NE2	2.27	0.48
45:II:256:GLN:NE2	46:IL:397:TRP:HH2	2.12	0.48
46:IL:190:HIS:CD2	46:IL:414:ASN:HD22	2.32	0.48
45:IM:227:LEU:O	45:IM:231:ILE:HG12	2.14	0.48
46:IN:11:GLN:NE2	49:IN:501:GDP:O1A	2.47	0.48
45:JC:212:ILE:HD11	45:JC:300:ASN:HA	1.95	0.48
46:JF:121:ARG:NH1	46:JF:158:GLU:OE2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JI:115:VAL:HG11	45:JI:152:LEU:HD23	1.96	0.48
45:JI:178:SER:HB3	46:JJ:347:ASN:HD21	1.77	0.48
46:KB:11:GLN:HG2	46:KB:15:GLN:NE2	2.28	0.48
46:KB:316:LEU:HB3	46:KB:366:THR:OG1	2.13	0.48
46:KD:318:ARG:HH21	46:KD:358:PRO:HG3	1.78	0.48
45:KG:320:ARG:HD3	45:KG:360:PRO:HG3	1.95	0.48
45:KG:426:ALA:O	45:KG:430:LYS:HG3	2.13	0.48
46:KJ:156:ARG:HH22	46:KJ:197:ASP:CG	2.15	0.48
45:KM:1:MET:O	45:KM:1:MET:HG3	2.13	0.48
45:LC:326:LYS:HZ3	46:LF:208:TYR:HB3	1.77	0.48
45:LG:217:LEU:HB3	45:LG:219:ILE:HG13	1.95	0.48
45:LI:274:PRO:HB2	45:LI:276:ILE:HG12	1.95	0.48
46:LJ:418:LEU:HD12	46:LJ:421:GLU:OE2	2.13	0.48
45:LK:170:THR:O	45:LK:204:LEU:HB2	2.13	0.48
45:LK:417:GLU:OE2	45:LK:417:GLU:N	2.46	0.48
46:LN:186:THR:HG23	46:LN:187:LEU:HD12	1.94	0.48
46:MB:276:ARG:HA	46:MB:279:GLN:NE2	2.27	0.48
46:MD:3:GLU:HG3	46:MD:62:ARG:NH1	2.28	0.48
46:MD:31:ASP:OD2	46:MD:34:GLY:N	2.46	0.48
45:ME:9:VAL:HG12	45:ME:68:LEU:HB2	1.95	0.48
46:MJ:405:GLU:HA	46:MJ:408:PHE:HD2	1.78	0.48
45:NA:10:GLY:O	45:NA:14:ILE:HG12	2.13	0.48
45:NC:183:GLU:N	45:NC:184:PRO:HD2	2.27	0.48
45:NC:225:THR:O	45:NC:229:ARG:HG3	2.14	0.48
46:ND:293:MET:HE1	46:ND:365:VAL:HG21	1.94	0.48
45:NE:33:ASP:HA	45:NE:85:GLN:HB2	1.94	0.48
45:NG:326:LYS:HE2	46:NJ:219:THR:HG22	1.94	0.48
46:NH:139:LEU:HD22	46:NH:170:VAL:HG12	1.95	0.48
46:NH:309:ARG:NH1	46:NH:339:SER:O	2.46	0.48
45:NI:68:LEU:HD13	45:NI:93:ILE:HB	1.96	0.48
45:NI:140:SER:HA	45:NI:171:ILE:HB	1.94	0.48
45:NM:283:HIS:O	45:NM:284:GLU:HG3	2.13	0.48
45:OE:180:ALA:HB3	45:OE:183:GLU:HB3	1.94	0.48
45:OK:205:ASP:OD1	45:OK:303:ALA:HA	2.13	0.48
45:OM:417:GLU:HA	45:OM:420:GLU:OE2	2.13	0.48
45:PA:174:SER:HB3	45:PA:207:GLU:HG2	1.94	0.48
45:PA:356:ASN:OD1	45:PA:357:TYR:N	2.45	0.48
46:PH:139:LEU:HD12	46:PH:170:VAL:HG12	1.96	0.48
45:PK:10:GLY:O	45:PK:14:ILE:HG12	2.13	0.48
45:PK:67:PHE:HB2	45:PK:92:LEU:HD13	1.94	0.48
46:PL:6:HIS:O	46:PL:63:ALA:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PM:222:PRO:O	46:PN:324:LYS:HD3	2.12	0.48
45:PM:340:THR:HG23	45:PM:341:ILE:HG13	1.94	0.48
46:PN:1:MET:H2	46:PN:3:GLU:CD	2.17	0.48
45:QA:183:GLU:N	45:QA:184:PRO:HD2	2.27	0.48
46:QB:21:TRP:CH2	46:QB:50:TYR:HB3	2.48	0.48
45:QC:324:VAL:HG12	45:QC:326:LYS:HG2	1.95	0.48
45:QE:88:HIS:HA	45:RE:280:LYS:HE3	1.96	0.48
46:QF:201:VAL:HG13	46:QF:301:CYS:SG	2.54	0.48
45:QG:136:LEU:HD22	45:QG:169:PHE:HE2	1.78	0.48
45:QG:207:GLU:OE1	45:QG:207:GLU:N	2.34	0.48
46:QH:164:MET:O	46:QH:197:ASP:HB2	2.13	0.48
46:QH:171:PRO:HB2	46:QH:181:GLU:OE2	2.13	0.48
45:QK:188:ILE:HG23	45:QK:425:LEU:HD11	1.94	0.48
45:RA:206:ASN:OD1	47:RA:501:GTP:N2	2.43	0.48
45:RA:331:SER:O	45:RA:335:ILE:HG12	2.14	0.48
46:RB:238:CYS:SG	46:RB:239:CYS:N	2.87	0.48
45:RC:284:GLU:N	45:RC:284:GLU:OE2	2.46	0.48
46:RD:262:ARG:HH21	46:RD:418:LEU:HA	1.77	0.48
46:RD:324:LYS:NZ	45:RE:214:ARG:HB3	2.28	0.48
45:RI:402:ARG:HG3	45:RI:405:VAL:HG11	1.96	0.48
45:RK:220:GLU:O	45:RK:221:ARG:NE	2.45	0.48
46:RL:331:LEU:HD11	45:RM:177:VAL:HA	1.94	0.48
46:SB:164:MET:HB2	46:SB:197:ASP:H	1.79	0.48
45:SG:257:THR:HA	46:SH:397:TRP:CZ2	2.48	0.48
46:SH:46:ARG:HH22	45:SI:73:THR:HA	1.78	0.48
46:SJ:309:ARG:NH1	46:SJ:426:GLN:O	2.46	0.48
45:SM:288:VAL:HA	45:SM:291:ILE:HG12	1.95	0.48
46:SN:6:HIS:O	46:SN:63:ALA:HA	2.13	0.48
46:TB:244:GLY:HA3	46:TB:354:CYS:HA	1.94	0.48
45:TC:414:GLU:OE1	45:TC:416:GLY:N	2.33	0.48
45:TG:343:PHE:HZ	45:TG:351:PHE:CE1	2.32	0.48
46:TJ:3:GLU:OE2	46:TJ:49:VAL:HA	2.13	0.48
45:TK:426:ALA:HB1	45:TK:430:LYS:HZ3	1.77	0.48
46:TL:21:TRP:CZ2	46:TL:63:ALA:HB2	2.49	0.48
45:TM:220:GLU:O	45:TM:221:ARG:NH1	2.46	0.48
46:TN:42:LEU:HA	46:TN:45:GLU:HG3	1.94	0.48
46:UB:421:GLU:HA	46:UB:424:GLN:OE1	2.13	0.48
46:UD:3:GLU:OE1	46:UD:127:CYS:HB3	2.13	0.48
46:UH:117:LEU:HA	46:UH:120:VAL:HG22	1.95	0.48
46:UN:31:ASP:OD2	46:UN:37:HIS:ND1	2.46	0.48
46:UN:290:THR:HA	46:UN:293:MET:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:118:CYS:O	45:VG:122:ILE:HG12	2.12	0.48
45:VG:136:LEU:HD22	45:VG:169:PHE:HE2	1.78	0.48
45:VG:164:LYS:O	45:VG:166:LYS:NZ	2.46	0.48
46:VJ:49:VAL:HG11	46:VJ:241:ARG:HG2	1.95	0.48
46:VJ:285:THR:HB	46:VJ:287:PRO:HD2	1.95	0.48
46:VJ:341:PHE:HB3	46:VJ:348:ASN:HD21	1.79	0.48
45:VK:207:GLU:OE1	45:VK:304:LYS:NZ	2.39	0.48
46:VL:217:LEU:HD11	46:VL:220:PRO:HB3	1.94	0.48
46:VN:55:THR:HG23	46:WN:283:ALA:HA	1.94	0.48
45:WC:74:VAL:O	45:WC:78:VAL:HG23	2.14	0.48
46:WD:222:TYR:HA	46:WD:225:LEU:HD12	1.94	0.48
45:WG:324:VAL:HG12	45:WG:326:LYS:HG2	1.96	0.48
45:WI:80:THR:O	45:WI:84:ARG:NH2	2.46	0.48
46:WJ:418:LEU:O	46:WJ:422:TYR:HB2	2.14	0.48
45:CE:75:ILE:O	45:CE:79:ARG:HG2	2.13	0.48
45:CE:203:MET:HA	45:CE:203:MET:HE3	1.95	0.48
8:0H:359:VAL:HG21	45:HM:282:TYR:CE2	2.47	0.48
25:1R:456:SER:O	46:FD:276:ARG:NE	2.45	0.48
27:2C:218:ARG:HD2	46:KJ:320:ARG:NH1	2.28	0.48
22:2M:47:LYS:NZ	46:IJ:75:SER:O	2.43	0.48
14:2V:94:GLY:HA3	46:LF:194:GLU:OE1	2.13	0.48
15:4X:45:GLN:O	15:4X:49:ILE:HG12	2.12	0.48
15:4X:109:GLN:O	15:4X:113:LEU:HD23	2.13	0.48
15:4X:111:ARG:O	15:4X:114:GLU:HG3	2.13	0.48
36:5B:59:TYR:HD2	46:KF:389:PHE:CE1	2.31	0.48
37:5E:209:ARG:HH12	45:LC:264:ARG:NH1	2.12	0.48
37:5F:110:ARG:HE	37:5F:112:ALA:H	1.60	0.48
37:5G:157:ARG:HH12	46:NL:35:THR:HG22	1.78	0.48
40:6G:270:THR:O	40:6G:271:TYR:CD1	2.66	0.48
10:6Q:102:ARG:CZ	45:AM:430:LYS:NZ	2.76	0.48
10:6Q:103:PHE:CG	10:6Q:139:PHE:HE2	2.31	0.48
46:AB:12:CYS:O	46:AB:16:ILE:HG12	2.14	0.48
46:AB:233:MET:O	46:AB:236:VAL:HG12	2.13	0.48
46:AD:156:ARG:NH1	46:AD:162:ARG:O	2.46	0.48
46:AF:99:ASN:HA	46:AF:142:GLY:H	1.77	0.48
46:AF:328:GLU:OE2	46:AF:329:GLN:HG2	2.12	0.48
45:AG:345:ASP:OD1	45:AG:346:TRP:N	2.46	0.48
46:AJ:272:PRO:HG3	46:AJ:284:LEU:HD11	1.95	0.48
45:AM:145:THR:OG1	47:AM:501:GTP:O1B	2.32	0.48
45:AM:293:ASN:O	45:AM:297:GLU:HG2	2.13	0.48
46:BB:285:THR:HB	46:BB:287:PRO:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BC:272:TYR:HD2	45:BC:275:ILE:HD11	1.78	0.48
45:BE:201:ALA:HB3	45:BE:267:PHE:CD1	2.49	0.48
45:BE:242:LEU:HD11	45:BE:252:ILE:HG13	1.95	0.48
46:BJ:1:MET:CE	46:BJ:2:ARG:H	2.26	0.48
47:BK:501:GTP:O2G	46:BL:252:LYS:NZ	2.40	0.48
46:BL:174:LYS:HB2	46:BL:205:GLU:HG2	1.94	0.48
46:BN:51:TYR:HE2	46:BN:61:PRO:HG3	1.78	0.48
46:BN:102:ALA:HB2	46:BN:403:MET:HE2	1.96	0.48
46:CB:105:HIS:CE1	46:CB:150:LEU:HD13	2.48	0.48
46:CB:376:GLU:OE2	46:CB:379:LYS:NZ	2.40	0.48
46:CD:178:THR:HG22	46:CD:180:VAL:H	1.79	0.48
46:CN:316:LEU:HG	46:CN:352:SER:HB2	1.94	0.48
46:DD:73:MET:HB2	46:DD:90:PHE:CE1	2.49	0.48
46:DF:253:LEU:HD12	46:DF:257:LEU:HD13	1.95	0.48
45:DI:31:GLN:HG2	45:DI:35:GLN:O	2.13	0.48
46:DJ:309:ARG:NH1	46:DJ:426:GLN:O	2.38	0.48
46:ED:173:PRO:HG2	46:ED:380:ARG:HE	1.78	0.48
45:EE:328:VAL:O	45:EE:332:ILE:HG12	2.14	0.48
46:EH:288:GLU:O	46:EH:291:GLN:HG3	2.13	0.48
46:EL:101:TRP:HB2	46:EL:184:ASN:HB3	1.95	0.48
45:EM:328:VAL:HG11	45:EM:353:VAL:HG21	1.95	0.48
46:FB:1:MET:O	46:FB:2:ARG:HG2	2.13	0.48
45:FG:97:GLU:HG2	45:FG:105:ARG:HH22	1.79	0.48
46:FH:317:PHE:HE2	46:FH:326:VAL:HG13	1.77	0.48
45:FI:181:VAL:HG12	46:FJ:347:ASN:O	2.12	0.48
46:FL:19:LYS:O	46:FL:22:GLU:HG3	2.13	0.48
45:GC:98:ASP:OD1	45:GC:99:ALA:N	2.46	0.48
46:GD:384:GLN:O	46:GD:388:MET:HG2	2.14	0.48
46:GF:64:ILE:HD13	46:GF:119:VAL:HG13	1.95	0.48
45:GG:210:TYR:CE2	45:GG:227:LEU:HD11	2.49	0.48
45:GK:396:ASP:OD1	45:GK:397:LEU:N	2.46	0.48
45:GM:221:ARG:NH2	46:GN:321:MET:HB2	2.28	0.48
45:HC:208:ALA:O	45:HC:212:ILE:HG12	2.13	0.48
45:HC:223:THR:HG23	45:HC:225:THR:H	1.79	0.48
46:HD:313:ALA:HB1	46:HD:367:PHE:HE1	1.78	0.48
45:HE:147:SER:HB2	45:HE:190:SER:HB3	1.94	0.48
45:HE:208:ALA:O	45:HE:212:ILE:HG12	2.13	0.48
46:HL:390:ARG:O	46:HL:392:LYS:NZ	2.36	0.48
46:HN:229:VAL:O	46:HN:233:MET:HG3	2.14	0.48
45:IA:54:SER:OG	45:IA:64:ARG:NH2	2.45	0.48
46:IB:285:THR:O	46:IB:288:GLU:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IC:55:GLU:HG3	45:IC:57:GLY:H	1.79	0.48
46:ID:196:ALA:HB3	46:ID:264:HIS:HE1	1.77	0.48
46:IF:178:THR:HG22	46:IF:180:VAL:H	1.77	0.48
46:IH:65:LEU:HD22	46:IH:90:PHE:HE1	1.78	0.48
45:IK:399:TYR:OH	45:IK:402:ARG:NH1	2.47	0.48
46:JB:6:HIS:HE1	46:JB:8:GLN:HB3	1.78	0.48
46:JB:299:MET:HG3	46:JB:301:CYS:N	2.22	0.48
45:JC:142:GLY:HA3	45:JC:183:GLU:HG3	1.95	0.48
45:JG:177:VAL:HG13	46:JH:327:ASP:OD2	2.13	0.48
45:JI:89:PRO:HD3	45:KI:283:HIS:HD1	1.78	0.48
46:JJ:218:THR:HG23	46:JJ:219:THR:HG23	1.96	0.48
45:JK:256:GLN:OE1	45:JK:257:THR:HG23	2.13	0.48
45:JK:387:VAL:HA	45:JK:390:ARG:NE	2.29	0.48
46:JL:67:ASP:O	46:JL:92:PHE:HA	2.13	0.48
46:JL:322:SER:O	46:JL:325:GLU:HG2	2.13	0.48
46:KD:101:TRP:HB2	46:KD:184:ASN:HB3	1.95	0.48
46:KF:54:ALA:HB3	46:KF:58:ARG:HG2	1.94	0.48
45:KI:167:LEU:HG	45:KI:200:VAL:HB	1.96	0.48
46:KL:173:PRO:HG2	46:KL:380:ARG:HE	1.79	0.48
45:KM:34:GLY:HA3	45:KM:60:LYS:HE3	1.96	0.48
45:KM:209:ILE:HG22	45:KM:302:MET:HG3	1.93	0.48
46:KN:150:LEU:O	46:KN:154:LYS:HG2	2.13	0.48
46:LD:268:ILE:HG22	46:LD:368:VAL:HG22	1.95	0.48
46:LL:344:TRP:CE3	46:LL:345:ILE:HG23	2.48	0.48
46:LN:15:GLN:HB3	46:LN:226:ASN:HD21	1.78	0.48
46:LN:21:TRP:CZ3	46:LN:61:PRO:HB3	2.48	0.48
46:MB:276:ARG:HD2	46:MB:279:GLN:NE2	2.29	0.48
45:MC:55:GLU:CD	45:MC:57:GLY:H	2.17	0.48
46:MH:154:LYS:HE2	46:MH:154:LYS:HB2	1.68	0.48
45:MI:73:THR:HA	46:MJ:46:ARG:NH2	2.29	0.48
45:MI:395:PHE:CD1	45:MI:422:ARG:HD3	2.49	0.48
46:MN:139:LEU:HD13	46:MN:168:SER:HB3	1.94	0.48
46:NB:19:LYS:O	46:NB:23:VAL:HG23	2.13	0.48
46:NB:64:ILE:HD11	46:NB:123:GLU:HG3	1.94	0.48
46:NF:257:LEU:HD11	46:NF:314:SER:HB2	1.96	0.48
45:NI:105:ARG:HH12	46:NJ:251:ARG:HD3	1.79	0.48
46:NJ:190:HIS:CD2	46:NJ:414:ASN:HD22	2.32	0.48
46:NL:268:ILE:HG22	46:NL:368:VAL:HG22	1.94	0.48
45:OA:9:VAL:HG22	45:OA:68:LEU:HB2	1.95	0.48
46:OB:201:VAL:HG22	46:OB:266:PHE:O	2.13	0.48
46:OB:372:THR:HA	46:OB:422:TYR:CE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OE:6:SER:OG	45:OE:64:ARG:O	2.28	0.48
45:OK:298:PRO:HA	45:OK:301:MET:HE1	1.96	0.48
46:ON:207:LEU:CD1	46:ON:228:LEU:HD11	2.43	0.48
45:PC:79:ARG:NH2	45:PC:92:LEU:O	2.46	0.48
45:PE:109:THR:HG22	45:PE:110:ILE:HG23	1.95	0.48
45:PE:183:GLU:N	45:PE:184:PRO:HD2	2.28	0.48
46:PF:417:ASP:O	46:PF:420:SER:N	2.47	0.48
45:PI:340:THR:HG23	45:PI:341:ILE:HG13	1.96	0.48
46:PJ:130:LEU:HB3	46:PJ:162:ARG:HE	1.78	0.48
45:PM:141:VAL:HG22	45:PM:187:SER:HA	1.94	0.48
46:QB:74:ASP:HA	46:QB:77:ARG:HH11	1.78	0.48
45:QC:12:GLY:HA2	45:QC:15:GLN:HE21	1.78	0.48
46:QD:116:VAL:HA	46:QD:119:VAL:HG12	1.95	0.48
46:QD:284:LEU:HD21	46:QD:362:LYS:HE3	1.95	0.48
46:QD:379:LYS:HD3	46:QD:419:VAL:HG11	1.95	0.48
46:RB:334:GLN:HA	46:RB:341:PHE:HE2	1.78	0.48
45:RI:209:ILE:HD12	45:RI:227:LEU:HB3	1.96	0.48
46:RL:2:ARG:HD2	45:RM:96:LYS:O	2.13	0.48
46:RL:174:LYS:HB2	46:RL:205:GLU:OE2	2.13	0.48
45:SA:109:THR:HG22	45:SA:110:ILE:HG23	1.94	0.48
45:SA:271:SER:HA	45:SA:302:MET:HG2	1.95	0.48
45:SC:192:HIS:HA	45:SC:195:LEU:HD23	1.95	0.48
45:SE:259:LEU:HB3	45:SE:268:MET:HE3	1.96	0.48
45:SI:69:ASP:OD1	45:SI:70:LEU:N	2.46	0.48
45:SK:224:TYR:HA	45:SK:227:LEU:HD13	1.95	0.48
46:SL:350:LYS:HZ1	45:SM:180:ALA:HA	1.79	0.48
45:SM:408:TYR:HB3	45:SM:413:MET:SD	2.54	0.48
45:TA:151:SER:O	45:TA:155:GLU:HG3	2.13	0.48
46:TB:139:LEU:HD13	46:TB:168:SER:HB3	1.95	0.48
45:TC:187:SER:O	45:TC:191:THR:HG23	2.13	0.48
46:TF:136:THR:HG22	46:TF:167:PHE:CD2	2.48	0.48
46:TF:273:LEU:O	46:TF:292:GLN:NE2	2.46	0.48
46:TF:288:GLU:O	46:TF:291:GLN:HG3	2.12	0.48
46:TL:121:ARG:NH1	46:TL:122:LYS:HB3	2.29	0.48
45:TM:136:LEU:HD13	45:TM:167:LEU:HB2	1.95	0.48
45:TM:269:LEU:HD23	45:TM:379:SER:O	2.14	0.48
45:TM:411:GLU:OE1	45:TM:411:GLU:N	2.47	0.48
46:UF:274:THR:HG23	46:UF:279:GLN:NE2	2.28	0.48
45:UK:171:ILE:HG23	45:UK:204:LEU:O	2.13	0.48
45:UM:387:VAL:HG12	45:UM:390:ARG:CZ	2.44	0.48
45:VA:222:PRO:HD2	46:VB:324:LYS:CE	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VC:324:VAL:HG11	45:VC:326:LYS:HZ3	1.78	0.48
45:VE:88:HIS:CE1	45:WE:280:LYS:HZ2	2.31	0.48
46:VH:73:MET:SD	46:VH:92:PHE:HB3	2.53	0.48
46:VH:139:LEU:CD2	46:VH:168:SER:HB3	2.43	0.48
46:VH:213:ARG:HA	46:VH:216:LYS:NZ	2.28	0.48
45:VI:10:GLY:O	45:VI:14:ILE:HG12	2.14	0.48
45:VI:152:LEU:O	45:VI:156:ARG:HG2	2.14	0.48
45:VI:331:SER:O	45:VI:335:ILE:HG12	2.14	0.48
46:VJ:114:ASP:O	46:VJ:117:LEU:HG	2.13	0.48
46:VJ:290:THR:HA	46:VJ:293:MET:HG3	1.96	0.48
46:VL:6:HIS:O	46:VL:63:ALA:HA	2.13	0.48
46:VL:105:HIS:HD2	46:VL:146:GLY:O	1.97	0.48
46:VN:145:SER:HB2	46:VN:188:SER:HB3	1.95	0.48
45:WE:3:GLU:HB2	45:WE:129:CYS:SG	2.54	0.48
46:WF:186:THR:HA	46:WF:189:VAL:HG12	1.96	0.48
46:WF:290:THR:HA	46:WF:293:MET:HG3	1.96	0.48
45:WI:147:SER:OG	45:WI:190:SER:HB3	2.14	0.48
46:WL:345:ILE:O	46:WL:345:ILE:HG13	2.13	0.48
45:WM:265:ILE:HG22	45:WM:380:ASN:HD21	1.77	0.48
46:WN:58:ARG:NH1	46:WN:60:VAL:HB	2.28	0.48
45:DC:205:ASP:OD2	45:DC:303:ALA:HA	2.13	0.48
1:0A:71:TYR:HE2	46:AB:320:ARG:HB3	1.76	0.48
6:0F:75:ARG:NH1	46:ED:357:PRO:HD2	2.28	0.48
3:1C:122:ARG:HH12	45:DM:225:THR:HB	1.76	0.48
19:1J:139:LYS:NZ	45:IE:372:MET:SD	2.82	0.48
23:1O:155:ILE:HD12	45:UE:370:LYS:HZ2	1.77	0.48
23:1O:239:ILE:HG12	46:UB:280:GLN:HA	1.95	0.48
31:2I:51:ALA:O	46:GH:306:ARG:NH1	2.47	0.48
21:2L:870:ARG:HG3	46:CJ:357:PRO:HG2	1.95	0.48
25:2R:70:THR:HG22	46:MH:320:ARG:NE	2.27	0.48
14:2V:22:ARG:NH2	45:ME:422:ARG:HG3	2.27	0.48
25:3R:247:SER:HA	45:BK:58:ALA:HB2	1.95	0.48
36:5A:22:TYR:HB2	36:5A:59:TYR:CZ	2.48	0.48
10:5Q:47:LEU:HD22	10:5Q:162:ILE:HD11	1.95	0.48
35:5S:158:MET:O	35:5S:162:LEU:HB2	2.14	0.48
39:6F:65:SER:O	46:JF:276:ARG:NH2	2.47	0.48
34:6R:335:VAL:HG22	34:6R:368:GLN:HE22	1.79	0.48
34:7R:133:LYS:NZ	34:7R:141:GLN:HB2	2.29	0.48
34:7R:335:VAL:HG22	34:7R:368:GLN:HE22	1.79	0.48
45:AA:76:ASP:OD2	46:AB:46:ARG:NH2	2.47	0.48
46:AB:272:PRO:HB2	46:AB:282:ARG:HH21	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AD:116:VAL:HA	46:AD:119:VAL:HG12	1.96	0.48
46:AH:273:LEU:H	46:AH:292:GLN:HE22	1.61	0.48
45:AM:183:GLU:N	45:AM:184:PRO:HD2	2.29	0.48
45:AM:244:PHE:HB2	45:AM:356:ASN:HD21	1.79	0.48
45:BA:224:TYR:HA	45:BA:227:LEU:HD12	1.95	0.48
45:BC:152:LEU:O	45:BC:155:GLU:HG3	2.14	0.48
45:BI:172:TYR:HD1	45:BI:173:PRO:HD2	1.78	0.48
46:BN:237:THR:HG22	46:BN:250:LEU:HD11	1.95	0.48
45:CA:88:HIS:ND1	45:CA:90:GLU:HG2	2.28	0.48
46:CD:10:GLY:O	46:CD:14:ASN:ND2	2.47	0.48
45:CI:352:LYS:HE2	46:CJ:178:THR:HA	1.95	0.48
46:CJ:86:ARG:NH2	46:CJ:87:PRO:HD2	2.28	0.48
46:CL:350:LYS:NZ	45:CM:179:THR:HG22	2.29	0.48
46:CL:396:HIS:CD2	46:CL:397:TRP:CD1	3.02	0.48
45:DE:11:GLN:NE2	47:DE:501:GTP:O1A	2.46	0.48
46:DF:201:VAL:HG23	46:DF:301:CYS:SG	2.53	0.48
46:DH:209:ASP:HB3	46:DH:213:ARG:HH12	1.77	0.48
46:DH:318:ARG:HH11	46:DH:358:PRO:HG3	1.78	0.48
46:DL:249:ASP:OD1	46:DL:252:LYS:N	2.35	0.48
46:DL:250:LEU:HD13	46:DL:253:LEU:HD21	1.95	0.48
45:DM:51:THR:HG21	45:DM:243:ARG:HD3	1.96	0.48
46:EH:107:THR:HG1	46:EH:108:GLU:CD	2.12	0.48
45:EI:73:THR:O	45:EI:77:GLU:HG2	2.14	0.48
46:EL:67:ASP:OD1	46:EL:68:LEU:N	2.45	0.48
46:EL:325:GLU:HG2	45:EM:221:ARG:HG2	1.96	0.48
46:FB:289:LEU:HB3	46:FB:365:VAL:HG21	1.95	0.48
46:FD:121:ARG:O	46:FD:125:GLU:OE1	2.32	0.48
46:FD:409:THR:O	46:FD:412:GLU:HG3	2.14	0.48
45:FG:141:VAL:HG12	45:FG:171:ILE:O	2.13	0.48
45:FI:272:TYR:HD2	45:FI:275:ILE:HD11	1.78	0.48
45:FM:52:PHE:HB2	45:FM:243:ARG:HH12	1.78	0.48
45:GA:288:VAL:HA	45:GA:291:ILE:HG12	1.96	0.48
45:GC:21:TRP:CH2	45:GC:63:PRO:HB3	2.48	0.48
45:GC:407:TRP:HH2	46:GD:254:ALA:HB1	1.77	0.48
46:GD:294:PHE:CE2	46:GD:333:VAL:HG11	2.48	0.48
45:GG:181:VAL:HG23	45:GG:182:VAL:HG13	1.94	0.48
45:GG:332:ILE:HD12	45:GG:351:PHE:CE2	2.48	0.48
46:GH:230:SER:HA	46:GH:233:MET:HG2	1.95	0.48
46:GH:233:MET:O	46:GH:236:VAL:HG12	2.14	0.48
45:GI:68:LEU:HD21	45:GI:118:CYS:SG	2.54	0.48
46:GJ:290:THR:HA	46:GJ:293:MET:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GK:276:ILE:HD13	45:GK:281:ALA:HA	1.96	0.48
46:GL:299:MET:N	46:GL:299:MET:SD	2.87	0.48
46:HB:294:PHE:CE2	46:HB:333:VAL:HG11	2.48	0.48
46:HJ:3:GLU:OE1	46:HJ:3:GLU:N	2.45	0.48
45:HK:256:GLN:HB2	45:HK:260:VAL:HB	1.95	0.48
46:HL:58:ARG:CZ	46:IL:281:TYR:HE1	2.26	0.48
45:IA:170:THR:O	45:IA:204:LEU:HB2	2.13	0.48
45:IA:210:TYR:CE2	46:IB:324:LYS:HB2	2.49	0.48
45:IE:175:PRO:HG3	45:IE:390:ARG:CZ	2.43	0.48
45:IG:8:HIS:HB2	45:IG:67:PHE:HD2	1.78	0.48
45:IG:72:PRO:HD2	46:IH:2:ARG:NH2	2.29	0.48
45:IG:395:PHE:HZ	45:IG:418:PHE:HB3	1.77	0.48
46:IH:42:LEU:HA	46:IH:45:GLU:HB2	1.95	0.48
45:II:90:GLU:OE1	45:II:121:ARG:HD3	2.13	0.48
45:IK:288:VAL:HA	45:IK:291:ILE:HG12	1.95	0.48
45:IK:407:TRP:HH2	46:IL:254:ALA:HB1	1.79	0.48
46:IL:316:LEU:HD23	46:IL:352:SER:HB2	1.95	0.48
45:JA:147:SER:HB2	45:JA:190:SER:HB2	1.96	0.48
46:JB:206:ALA:HA	46:JB:209:ASP:OD2	2.13	0.48
45:JC:422:ARG:NH1	45:JC:422:ARG:O	2.47	0.48
46:JH:375:GLN:HG3	46:JH:419:VAL:HG13	1.95	0.48
45:JI:345:ASP:OD2	45:JI:346:TRP:N	2.46	0.48
45:JM:36:MET:SD	45:JM:37:PRO:HD2	2.53	0.48
45:JM:268:MET:HB2	45:JM:379:SER:O	2.13	0.48
46:JN:47:ILE:HD12	46:JN:59:TYR:CE2	2.48	0.48
45:KA:147:SER:HB2	45:KA:190:SER:OG	2.13	0.48
46:KB:121:ARG:NH2	46:KB:158:GLU:OE2	2.43	0.48
45:KE:262:TYR:HB2	45:KE:265:ILE:HG22	1.94	0.48
46:KF:101:TRP:CE3	46:KF:187:LEU:HD23	2.48	0.48
46:KJ:251:ARG:O	46:KJ:255:VAL:HG23	2.14	0.48
45:KK:42:ILE:HD12	45:KK:42:ILE:H	1.77	0.48
46:LB:175:VAL:HG22	46:LB:205:GLU:OE2	2.13	0.48
46:LD:180:VAL:HG12	46:LD:180:VAL:O	2.14	0.48
45:LG:214:ARG:HH21	45:LG:215:ARG:NH2	2.11	0.48
45:LK:321:GLY:HA3	45:LK:372:MET:O	2.12	0.48
45:LM:239:THR:HG23	45:LM:243:ARG:HH21	1.77	0.48
45:MK:109:THR:HB	45:MK:110:ILE:HD12	1.96	0.48
46:ND:238:CYS:SG	46:ND:318:ARG:HD3	2.53	0.48
45:NE:7:ILE:HB	45:NE:137:VAL:HG12	1.93	0.48
45:NI:21:TRP:CZ2	45:NI:65:ALA:HB2	2.48	0.48
46:OD:200:MET:CE	46:OD:268:ILE:HG23	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OE:100:ALA:HA	46:OF:252:LYS:HE2	1.96	0.48
45:OG:2:ARG:NH2	45:OG:242:LEU:HA	2.29	0.48
45:OG:100:ALA:HA	46:OH:252:LYS:HG2	1.94	0.48
45:OG:183:GLU:N	45:OG:184:PRO:HD2	2.29	0.48
46:OJ:213:ARG:HD2	46:OJ:297:LYS:HE3	1.95	0.48
46:ON:86:ARG:HG2	46:ON:89:ASN:OD1	2.14	0.48
46:PD:63:ALA:O	46:PD:89:ASN:ND2	2.47	0.48
45:PE:33:ASP:O	45:PE:60:LYS:NZ	2.45	0.48
45:PE:174:SER:HB2	45:PE:177:VAL:O	2.13	0.48
45:PE:231:ILE:O	45:PE:235:ILE:HG12	2.14	0.48
46:PF:19:LYS:HE2	46:PF:227:HIS:HB2	1.94	0.48
46:PF:189:VAL:HG13	46:PF:415:MET:HE3	1.96	0.48
45:PG:89:PRO:HD2	45:QG:280:LYS:NZ	2.28	0.48
45:PM:222:PRO:O	46:PN:322:SER:HB2	2.12	0.48
46:PN:109:GLY:O	46:PN:113:ILE:HG23	2.13	0.48
46:QB:1:MET:HE2	46:QB:2:ARG:HD3	1.96	0.48
45:QE:271:SER:OG	45:QE:301:MET:HG2	2.13	0.48
46:QF:15:GLN:HG2	49:QF:501:GDP:O6	2.13	0.48
46:QF:165:GLU:OE1	46:QF:198:GLU:HG2	2.14	0.48
46:QF:287:PRO:O	46:QF:290:THR:HG22	2.14	0.48
45:QI:314:ALA:HB3	45:QI:380:ASN:HD21	1.79	0.48
45:QM:69:ASP:HB3	45:QM:75:ILE:HD11	1.96	0.48
45:QM:88:HIS:HB3	45:QM:91:GLN:HG2	1.96	0.48
45:RC:209:ILE:HD12	45:RC:227:LEU:HB3	1.96	0.48
45:RC:317:MET:HB3	45:RC:377:MET:SD	2.53	0.48
45:RE:141:VAL:HG11	45:RE:172:TYR:HD1	1.78	0.48
45:RG:90:GLU:HG2	45:RG:121:ARG:HH21	1.79	0.48
45:RM:88:HIS:ND1	45:RM:89:PRO:HD2	2.27	0.48
45:SA:167:LEU:HG	45:SA:200:VAL:HB	1.96	0.48
45:SC:428:LEU:O	45:SC:432:TYR:HD2	1.96	0.48
45:SE:419:SER:O	45:SE:423:GLU:HG2	2.14	0.48
46:SN:5:VAL:HG12	46:SN:62:ARG:HD3	1.95	0.48
45:TA:346:TRP:CD1	46:TB:391:ARG:HG3	2.49	0.48
45:TC:223:THR:HG23	45:TC:225:THR:H	1.79	0.48
46:TF:150:LEU:HD23	46:TF:154:LYS:HZ2	1.78	0.48
45:TG:156:ARG:HG3	45:TG:156:ARG:NH1	2.27	0.48
45:TK:76:ASP:OD1	45:TK:79:ARG:NH2	2.45	0.48
46:TL:113:ILE:HD13	46:TL:150:LEU:HD22	1.96	0.48
45:UC:183:GLU:N	45:UC:184:PRO:HD2	2.28	0.48
45:UC:331:SER:O	45:UC:335:ILE:HG12	2.14	0.48
45:UC:426:ALA:HB1	45:UC:430:LYS:HZ1	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UI:2:ARG:HG3	45:UI:133:GLN:NE2	2.28	0.48
46:UJ:321:MET:CA	45:UK:221:ARG:HH22	2.19	0.48
45:UK:326:LYS:HZ1	46:UL:219:THR:HA	1.78	0.48
45:UM:287:SER:O	45:UM:291:ILE:HG12	2.13	0.48
46:UN:268:ILE:HG22	46:UN:368:VAL:HG22	1.96	0.48
45:VA:350:GLY:HA2	46:VD:179:VAL:HG12	1.95	0.48
46:VB:97:ALA:HA	46:VB:103:LYS:HE3	1.95	0.48
46:VD:299:MET:HE2	46:VD:301:CYS:HB2	1.94	0.48
46:VF:211:CYS:SG	46:VF:220:PRO:HB3	2.53	0.48
45:VI:414:GLU:OE1	45:VI:416:GLY:N	2.36	0.48
45:VK:167:LEU:HG	45:VK:200:VAL:HB	1.96	0.48
46:VL:103:LYS:O	46:VL:107:THR:OG1	2.32	0.48
45:VM:69:ASP:O	45:VM:94:SER:HA	2.14	0.48
45:WE:8:HIS:HB2	45:WE:67:PHE:HD1	1.78	0.48
45:WE:121:ARG:HA	45:WE:124:LYS:HG2	1.95	0.48
45:WG:101:ASN:HA	45:WG:144:GLY:H	1.78	0.48
45:WG:329:ASN:HA	45:WG:332:ILE:HG22	1.95	0.48
45:WI:175:PRO:HG3	45:WI:390:ARG:CZ	2.43	0.48
46:WJ:239:CYS:SG	46:WJ:247:ASN:HA	2.54	0.48
46:WJ:304:ASP:HB3	46:WJ:307:HIS:CE1	2.49	0.48
46:WL:19:LYS:HZ2	46:WL:227:HIS:HA	1.78	0.48
46:WL:201:VAL:HG23	46:WL:301:CYS:SG	2.53	0.48
2:0B:212:SER:H	45:JI:47:ASP:H	1.60	0.48
21:1L:757:TYR:CE2	45:BC:221:ARG:HG3	2.47	0.48
10:1Q:108:TYR:HE2	45:AC:420:GLU:HB3	1.78	0.48
14:1V:69:SER:OG	46:MJ:336:LYS:HB3	2.13	0.48
1:2A:154:ASN:HD21	34:5R:82:GLN:HG3	1.78	0.48
31:2I:46:TYR:HE1	46:FH:126:GLY:HA2	1.77	0.48
23:2O:260:LEU:HB3	45:VG:282:TYR:CE2	2.49	0.48
14:2V:24:ARG:NH2	45:ME:430:LYS:HA	2.28	0.48
14:2V:241:LYS:NZ	46:WH:218:THR:HG23	2.28	0.48
25:3R:454:ARG:NH2	46:FL:218:THR:HB	2.27	0.48
14:3V:122:LYS:HE2	46:LD:390:ARG:NH2	2.28	0.48
10:4Q:102:ARG:HE	45:AI:430:LYS:NZ	2.09	0.48
34:4R:510:GLU:H	34:4R:510:GLU:CD	2.17	0.48
34:4R:566:PHE:HD1	34:4R:589:MET:HG2	1.77	0.48
15:4X:60:GLU:OE1	15:4X:64:ARG:NH2	2.47	0.48
39:6F:19:SER:O	39:6F:37:GLN:NE2	2.43	0.48
41:6H:257:THR:OG1	46:FF:355:ASP:OD2	2.31	0.48
10:6Q:94:LEU:CD1	10:6Q:100:ARG:HH22	2.25	0.48
45:AA:328:VAL:O	45:AA:332:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AB:248:SER:HA	46:AB:252:LYS:HD2	1.94	0.48
45:AG:3:GLU:OE2	45:AG:131:GLY:N	2.45	0.48
46:AJ:161:ASP:OD1	46:AJ:162:ARG:NH1	2.47	0.48
46:AJ:282:ARG:HH22	46:MJ:86:ARG:HD2	1.79	0.48
45:AM:10:GLY:O	45:AM:14:ILE:HG12	2.13	0.48
45:BA:141:VAL:HG11	45:BA:172:TYR:HD1	1.77	0.48
45:BA:225:THR:OG1	45:BA:229:ARG:NH2	2.47	0.48
45:BA:349:THR:OG1	46:BD:176:SER:OG	2.14	0.48
46:BB:91:VAL:HG21	46:BB:116:VAL:HB	1.95	0.48
45:BC:10:GLY:O	45:BC:14:ILE:HG12	2.12	0.48
46:BD:121:ARG:HG2	46:BD:125:GLU:OE2	2.13	0.48
46:BH:203:ASP:O	46:BH:207:LEU:HG	2.13	0.48
46:BH:247:ASN:O	46:BH:252:LYS:NZ	2.31	0.48
46:BH:285:THR:O	46:BH:289:LEU:HD23	2.14	0.48
45:BK:268:MET:HG3	45:BK:380:ASN:OD1	2.12	0.48
45:BM:224:TYR:HE2	46:BN:323:THR:HG1	1.62	0.48
45:BM:237:SER:HA	45:BM:320:ARG:HH11	1.78	0.48
46:BN:90:PHE:HB3	46:BN:92:PHE:CE2	2.46	0.48
45:CA:319:TYR:HB3	45:CA:323:VAL:HG11	1.95	0.48
45:CC:10:GLY:O	45:CC:13:GLY:N	2.46	0.48
46:CF:255:VAL:HG21	45:CG:100:ALA:O	2.14	0.48
46:CH:324:LYS:NZ	45:CI:210:TYR:HB3	2.28	0.48
45:DE:346:TRP:CD1	46:DF:391:ARG:HG3	2.48	0.48
45:DI:62:VAL:HG21	45:EI:283:HIS:O	2.14	0.48
46:DL:156:ARG:NH2	46:DL:160:PRO:O	2.47	0.48
46:DL:175:VAL:HG22	46:DL:205:GLU:HB3	1.96	0.48
45:DM:317:MET:HG3	45:DM:377:MET:HB3	1.95	0.48
46:EB:130:LEU:HD11	46:EB:133:PHE:HE1	1.78	0.48
45:EC:50:ASN:O	45:EC:64:ARG:NH1	2.46	0.48
46:EF:376:GLU:OE2	46:EF:380:ARG:NH1	2.46	0.48
46:EH:258:ILE:HD11	45:EI:407:TRP:CZ2	2.49	0.48
46:EJ:208:TYR:CE2	46:EJ:225:LEU:HD11	2.48	0.48
45:EK:371:VAL:HG12	45:EK:373:ARG:H	1.79	0.48
46:EL:392:LYS:HD3	46:EL:392:LYS:N	2.29	0.48
45:EM:332:ILE:HG22	45:EM:336:LYS:NZ	2.29	0.48
46:FF:36:TYR:O	46:FF:37:HIS:ND1	2.47	0.48
45:FG:69:ASP:OD1	45:FG:71:GLU:N	2.38	0.48
45:FI:210:TYR:CZ	45:FI:227:LEU:HD11	2.48	0.48
46:FL:293:MET:CE	46:FL:367:PHE:HB2	2.43	0.48
45:FM:224:TYR:HE2	46:FN:246:LEU:HD11	1.77	0.48
45:GA:183:GLU:N	45:GA:184:PRO:HD2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GH:221:THR:HG23	46:GH:224:ASP:H	1.77	0.48
45:GI:2:ARG:HH21	45:GI:243:ARG:HA	1.78	0.48
46:GJ:372:THR:HA	46:GJ:422:TYR:CE2	2.49	0.48
46:GJ:389:PHE:O	46:GJ:392:LYS:NZ	2.39	0.48
45:GM:71:GLU:OE1	46:GN:247:ASN:ND2	2.45	0.48
45:GM:328:VAL:HG11	45:GM:353:VAL:HG21	1.96	0.48
46:GN:273:LEU:H	46:GN:292:GLN:NE2	2.01	0.48
45:HA:2:ARG:NH2	46:HD:70:PRO:HD2	2.29	0.48
45:HA:312:TYR:HE2	45:HA:379:SER:HG	1.59	0.48
45:HE:3:GLU:OE2	45:HE:131:GLY:N	2.46	0.48
45:HE:334:THR:O	45:HE:338:LYS:HG2	2.14	0.48
46:HJ:285:THR:HG23	46:HJ:288:GLU:H	1.78	0.48
46:HL:273:LEU:H	46:HL:292:GLN:NE2	2.12	0.48
46:ID:16:ILE:HD13	46:ID:226:ASN:OD1	2.14	0.48
45:IE:105:ARG:HG2	45:IE:411:GLU:CD	2.34	0.48
45:IE:207:GLU:HA	45:IE:210:TYR:HD2	1.79	0.48
46:IJ:86:ARG:NE	45:JG:283:HIS:HB2	2.29	0.48
45:IK:3:GLU:HB2	45:IK:129:CYS:SG	2.54	0.48
45:KC:119:LEU:HA	45:KC:122:ILE:HG22	1.94	0.48
45:KC:329:ASN:HB3	46:KF:175:VAL:HG21	1.96	0.48
45:KG:212:ILE:HD11	45:KG:300:ASN:HA	1.96	0.48
46:KH:130:LEU:HB3	46:KH:162:ARG:HH12	1.78	0.48
46:KJ:268:ILE:HG13	46:KJ:300:MET:HG3	1.96	0.48
45:KK:264:ARG:HH22	45:KK:428:LEU:HD13	1.79	0.48
46:KL:294:PHE:CD2	46:KL:333:VAL:HG21	2.48	0.48
46:KN:8:GLN:HE21	46:KN:14:ASN:HA	1.78	0.48
46:KN:262:ARG:NH1	46:KN:421:GLU:OE1	2.46	0.48
46:LD:8:GLN:OE1	46:LD:17:GLY:HA3	2.14	0.48
45:LI:19:ALA:HA	45:LI:22:GLU:OE1	2.13	0.48
45:LI:210:TYR:CE1	45:LI:227:LEU:HD11	2.48	0.48
45:LI:222:PRO:HD2	46:LJ:324:LYS:NZ	2.28	0.48
46:LJ:173:PRO:HG2	46:LJ:380:ARG:HD3	1.95	0.48
45:MA:223:THR:HG23	45:MA:225:THR:H	1.78	0.48
45:MA:262:TYR:OH	46:MD:391:ARG:O	2.30	0.48
45:MA:282:TYR:HE1	45:MA:371:VAL:HG22	1.79	0.48
46:MB:91:VAL:HG21	46:MB:116:VAL:HB	1.94	0.48
45:MC:51:THR:HG22	45:MC:52:PHE:CD1	2.49	0.48
45:MC:280:LYS:HG3	45:MC:280:LYS:O	2.14	0.48
46:MH:254:ALA:O	46:MH:258:ILE:HG12	2.14	0.48
45:MK:183:GLU:N	45:MK:184:PRO:HD2	2.29	0.48
45:MM:6:SER:OG	45:MM:8:HIS:NE2	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MM:288:VAL:HA	45:MM:291:ILE:HG12	1.95	0.48
45:NC:231:ILE:O	45:NC:235:ILE:HG12	2.14	0.48
46:NF:257:LEU:HA	46:NF:312:THR:HG21	1.95	0.48
45:NG:417:GLU:HA	45:NG:420:GLU:OE2	2.13	0.48
46:NH:101:TRP:HB3	46:NH:398:TYR:HE1	1.79	0.48
46:NJ:40:SER:H	46:NJ:43:GLN:HE21	1.62	0.48
46:NJ:156:ARG:CZ	46:NJ:195:ASN:HA	2.44	0.48
45:NK:72:PRO:HG2	46:NL:1:MET:SD	2.54	0.48
45:NM:28:HIS:NE2	45:NM:49:PHE:HB3	2.27	0.48
45:OA:89:PRO:HD2	45:PA:280:LYS:CE	2.44	0.48
46:OD:119:VAL:O	46:OD:122:LYS:HG3	2.14	0.48
45:OG:195:LEU:HD21	45:OG:264:ARG:HE	1.79	0.48
46:ON:334:GLN:HG3	46:ON:341:PHE:CD2	2.48	0.48
46:PF:256:ASN:ND2	46:PF:350:LYS:HE3	2.29	0.48
45:PG:256:GLN:O	46:PJ:397:TRP:NE1	2.46	0.48
46:PH:45:GLU:HG2	46:PH:46:ARG:HG2	1.96	0.48
46:PJ:310:TYR:CD1	46:PJ:371:SER:HB2	2.48	0.48
46:PL:86:ARG:HA	46:QJ:281:TYR:CE2	2.49	0.48
46:PL:375:GLN:HG3	46:PL:379:LYS:NZ	2.28	0.48
46:QB:289:LEU:HB3	46:QB:365:VAL:HG21	1.96	0.48
45:QE:175:PRO:HG2	45:QE:176:GLN:OE1	2.13	0.48
45:QG:14:ILE:HG23	45:QG:67:PHE:CD1	2.48	0.48
46:QH:226:ASN:HA	46:QH:229:VAL:HG12	1.95	0.48
45:QI:377:MET:SD	45:QI:379:SER:OG	2.57	0.48
45:QK:256:GLN:HG2	45:QK:260:VAL:HG21	1.96	0.48
45:RC:131:GLY:O	45:RC:133:GLN:NE2	2.46	0.48
45:RC:252:ILE:HD12	45:RC:252:ILE:H	1.78	0.48
45:RC:404:PHE:HA	45:RC:407:TRP:HZ3	1.77	0.48
46:RD:46:ARG:NH2	45:RE:76:ASP:OD2	2.47	0.48
45:RE:166:LYS:N	45:RE:199:ASP:OD2	2.37	0.48
45:RG:259:LEU:HB3	45:RG:268:MET:CE	2.43	0.48
46:RH:327:ASP:O	46:RH:330:MET:HG2	2.14	0.48
46:RJ:19:LYS:NZ	46:RJ:223:GLY:O	2.47	0.48
46:RL:8:GLN:HG2	46:RL:13:GLY:O	2.14	0.48
46:RL:271:ALA:HB1	46:RL:272:PRO:HA	1.94	0.48
45:SE:73:THR:O	45:SE:77:GLU:HG3	2.13	0.48
45:SE:278:ALA:HB2	45:SE:369:ALA:HB2	1.96	0.48
45:SI:430:LYS:O	45:SI:433:GLU:HG3	2.14	0.48
46:SJ:167:PHE:CE1	46:SJ:233:MET:HG2	2.48	0.48
45:SK:265:ILE:HG13	45:SK:380:ASN:HD21	1.78	0.48
46:SL:51:TYR:CE1	46:SL:61:PRO:HG3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TB:347:ASN:ND2	45:TC:176:GLN:O	2.46	0.48
46:TD:10:GLY:O	46:TD:14:ASN:ND2	2.45	0.48
45:TE:223:THR:HG23	45:TE:225:THR:H	1.78	0.48
46:TH:190:HIS:ND1	46:TH:411:ALA:HA	2.27	0.48
46:TL:105:HIS:CE1	46:TL:150:LEU:HD12	2.47	0.48
45:UA:224:TYR:HD1	45:UA:227:LEU:HD12	1.79	0.48
45:UE:387:VAL:HA	45:UE:390:ARG:NE	2.27	0.48
46:UF:265:PHE:HE1	46:UF:418:LEU:HD21	1.77	0.48
46:UH:116:VAL:HA	46:UH:119:VAL:HG12	1.96	0.48
46:UJ:322:SER:H	45:UK:221:ARG:NH2	2.11	0.48
46:UL:265:PHE:HE1	46:UL:418:LEU:HD21	1.78	0.48
46:UN:262:ARG:NH1	46:UN:421:GLU:OE1	2.46	0.48
46:UN:387:ALA:O	46:UN:390:ARG:NH1	2.40	0.48
46:VD:86:ARG:NE	46:VD:88:ASP:HB2	2.28	0.48
45:VE:401:LYS:HD2	46:VF:344:TRP:CE3	2.49	0.48
45:VM:231:ILE:O	45:VM:235:ILE:HG12	2.14	0.48
46:VN:5:VAL:HA	46:VN:62:ARG:HD3	1.96	0.48
46:VN:172:SER:HA	46:VN:380:ARG:NH1	2.29	0.48
46:WD:232:ALA:HB1	46:WD:268:ILE:HD12	1.96	0.48
46:WF:336:LYS:HB2	46:WF:336:LYS:NZ	2.29	0.48
45:WG:434:GLU:O	45:WG:437:ILE:HG12	2.14	0.48
46:WJ:201:VAL:HG22	46:WJ:266:PHE:O	2.14	0.48
46:WL:257:LEU:HD21	46:WL:314:SER:OG	2.14	0.48
45:CE:133:GLN:HB3	45:CE:252:ILE:HG21	1.95	0.48
45:DC:102:ASN:ND2	45:DC:407:TRP:O	2.43	0.48
17:1F:155:ASP:OD1	46:HL:296:ALA:HB3	2.13	0.48
9:2N:1:MET:N	45:IA:95:GLY:HA2	2.28	0.48
31:3I:228:ARG:NH2	46:GL:297:LYS:O	2.45	0.48
34:4R:208:ALA:HA	34:4R:211:ALA:HB3	1.96	0.48
36:5C:45:TYR:CZ	36:5C:56:ILE:HG13	2.48	0.48
35:5S:69:TYR:HD1	35:5S:74:LEU:HD12	1.77	0.48
40:6G:95:VAL:HG12	45:UK:113:GLU:OE2	2.14	0.48
40:6G:144:LYS:HZ3	40:6G:145:TRP:H	1.61	0.48
10:6Q:90:GLU:HB3	10:6Q:104:ARG:HD3	1.96	0.48
34:6R:534:HIS:NE2	34:6R:578:TYR:OH	2.45	0.48
45:AE:98:ASP:OD2	45:AE:99:ALA:N	2.47	0.48
46:AF:213:ARG:O	46:AF:216:LYS:HE3	2.14	0.48
45:AG:22:GLU:O	45:AG:26:LEU:HG	2.13	0.48
45:AI:147:SER:HB2	45:AI:190:SER:HB3	1.95	0.48
45:BA:3:GLU:N	45:BA:133:GLN:OE1	2.46	0.48
46:BB:100:ASN:HD22	46:BB:103:LYS:HB2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BC:287:SER:O	45:BC:290:GLU:HG2	2.13	0.48
46:BD:65:LEU:HD22	46:BD:90:PHE:CE1	2.48	0.48
45:BE:98:ASP:O	45:BE:105:ARG:NH1	2.47	0.48
46:BJ:6:HIS:HD2	46:BJ:21:TRP:HE1	1.61	0.48
46:BJ:190:HIS:CE1	46:BJ:414:ASN:HD22	2.32	0.48
46:BJ:318:ARG:HH11	46:BJ:358:PRO:HG3	1.79	0.48
46:BL:68:LEU:HD23	46:BL:143:THR:OG1	2.13	0.48
46:BL:173:PRO:HD3	46:BL:380:ARG:NH1	2.29	0.48
46:BN:153:SER:O	46:BN:157:GLU:HG3	2.12	0.48
46:CB:145:SER:HB2	46:CB:188:SER:HB3	1.96	0.48
46:CB:297:LYS:HA	46:CB:297:LYS:HE2	1.95	0.48
46:CB:321:MET:HB2	45:CC:221:ARG:NH2	2.28	0.48
46:CB:324:LYS:HZ3	45:CC:221:ARG:HA	1.77	0.48
46:CF:379:LYS:HE2	46:CF:380:ARG:HH12	1.78	0.48
45:CI:70:LEU:HA	45:CI:95:GLY:H	1.79	0.48
45:CK:101:ASN:HA	45:CK:144:GLY:H	1.78	0.48
45:CK:187:SER:O	45:CK:191:THR:HG23	2.13	0.48
45:DE:324:VAL:HG22	45:DE:326:LYS:HG2	1.95	0.48
45:DG:135:PHE:HB2	45:DG:166:LYS:HG2	1.96	0.48
46:DH:8:GLN:O	46:DH:66:MET:HG2	2.14	0.48
45:DK:261:PRO:HA	46:DL:394:PHE:CD1	2.49	0.48
45:DK:434:GLU:O	45:DK:437:ILE:HG12	2.14	0.48
46:DL:2:ARG:HB3	46:DL:131:GLN:HG3	1.95	0.48
45:DM:98:ASP:OD1	45:DM:99:ALA:N	2.47	0.48
46:EB:318:ARG:HD3	46:EB:358:PRO:HG3	1.96	0.48
46:EH:36:TYR:CZ	46:EH:44:LEU:HD11	2.48	0.48
45:EI:231:ILE:O	45:EI:235:ILE:HG12	2.14	0.48
45:EK:223:THR:HG23	45:EK:225:THR:H	1.78	0.48
45:EK:332:ILE:HA	45:EK:335:ILE:HG12	1.95	0.48
45:EM:322:ASP:OD1	45:EM:373:ARG:NH1	2.45	0.48
45:FC:10:GLY:O	45:FC:14:ILE:HG12	2.13	0.48
45:FC:184:PRO:O	45:FC:188:ILE:HG12	2.14	0.48
46:FD:293:MET:CE	46:FD:365:VAL:HG11	2.44	0.48
45:FE:220:GLU:OE1	45:FE:221:ARG:NH1	2.40	0.48
45:FG:141:VAL:HG11	45:FG:172:TYR:CD1	2.48	0.48
45:FI:107:HIS:O	45:FI:107:HIS:ND1	2.46	0.48
45:GA:118:CYS:O	45:GA:122:ILE:HG12	2.14	0.48
45:GC:183:GLU:N	45:GC:184:PRO:HD2	2.28	0.48
45:GC:192:HIS:ND1	45:GC:424:ASP:OD2	2.45	0.48
45:GE:81:GLY:O	45:GE:84:ARG:HG3	2.14	0.48
45:GE:358:GLN:NE2	45:GE:359:PRO:O	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GF:51:TYR:HE2	46:GF:61:PRO:HG3	1.77	0.48
46:GF:131:GLN:O	46:GF:163:ILE:HG12	2.12	0.48
45:GG:268:MET:HG3	45:GG:380:ASN:HB2	1.95	0.48
46:GJ:86:ARG:HB3	46:GJ:89:ASN:OD1	2.13	0.48
46:HB:285:THR:O	46:HB:288:GLU:HG3	2.14	0.48
46:HF:105:HIS:CE1	46:HF:150:LEU:HD12	2.49	0.48
45:HG:89:PRO:HD3	45:IG:280:LYS:NZ	2.28	0.48
46:IB:273:LEU:N	46:IB:292:GLN:HE22	2.04	0.48
45:IG:69:ASP:OD1	45:IG:70:LEU:N	2.47	0.48
45:IK:167:LEU:HG	45:IK:200:VAL:HB	1.96	0.48
46:IL:285:THR:HB	46:IL:287:PRO:HD2	1.96	0.48
45:IM:271:SER:HB3	45:IM:377:MET:HB3	1.96	0.48
46:IN:45:GLU:C	46:IN:46:ARG:HD2	2.33	0.48
45:JC:183:GLU:N	45:JC:184:PRO:HD2	2.29	0.48
45:JC:259:LEU:HB3	45:JC:268:MET:CE	2.43	0.48
46:JD:190:HIS:CD2	46:JD:414:ASN:HD22	2.32	0.48
46:JD:313:ALA:HB1	46:JD:367:PHE:HE1	1.79	0.48
45:JE:222:PRO:O	46:JF:324:LYS:NZ	2.32	0.48
45:JI:47:ASP:OD1	45:JI:50:ASN:ND2	2.47	0.48
45:JI:217:LEU:HD13	45:JI:277:SER:HB3	1.95	0.48
46:JL:67:ASP:OD1	46:JL:68:LEU:N	2.40	0.48
45:KE:68:LEU:HD23	45:KE:93:ILE:HB	1.95	0.48
46:KF:198:GLU:HB3	46:KF:266:PHE:CE2	2.48	0.48
45:KG:269:LEU:H	45:KG:269:LEU:HD23	1.78	0.48
46:KH:68:LEU:HD12	46:KH:97:ALA:HB2	1.96	0.48
46:KJ:8:GLN:HG3	46:KJ:65:LEU:HD13	1.95	0.48
46:KN:171:PRO:HG2	46:KN:181:GLU:OE2	2.14	0.48
45:LA:191:THR:HA	45:LA:194:LEU:HG	1.96	0.48
46:LB:224:ASP:O	46:LB:228:LEU:HD23	2.13	0.48
46:LD:342:VAL:HG13	46:LD:345:ILE:HG22	1.95	0.48
45:LE:103:PHE:HB2	45:LE:186:ASN:HB3	1.95	0.48
46:LJ:251:ARG:O	46:LJ:255:VAL:HG23	2.14	0.48
46:MF:12:CYS:O	46:MF:16:ILE:HG12	2.14	0.48
45:MI:184:PRO:O	45:MI:188:ILE:HG12	2.13	0.48
45:MI:414:GLU:CD	45:MI:416:GLY:H	2.18	0.48
45:MK:227:LEU:O	45:MK:231:ILE:HD12	2.13	0.48
45:MM:311:LYS:N	45:MM:382:THR:OG1	2.42	0.48
45:NC:55:GLU:OE2	45:NC:56:THR:N	2.47	0.48
45:NC:372:MET:HG2	45:NC:373:ARG:HD3	1.95	0.48
45:NG:222:PRO:HD2	46:NH:324:LYS:CE	2.44	0.48
45:NG:242:LEU:HD11	45:NG:252:ILE:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NH:161:ASP:OD1	46:NH:162:ARG:N	2.47	0.48
45:NK:311:LYS:H	45:NK:382:THR:HB	1.78	0.48
45:NM:53:PHE:O	45:NM:64:ARG:NH1	2.41	0.48
46:NN:133:PHE:HB2	46:NN:164:MET:SD	2.54	0.48
46:OD:114:ASP:O	46:OD:117:LEU:HG	2.14	0.48
46:OF:268:ILE:O	46:OF:300:MET:HB2	2.14	0.48
46:OJ:133:PHE:O	46:OJ:164:MET:HA	2.14	0.48
46:OJ:164:MET:SD	46:OJ:196:ALA:HA	2.54	0.48
46:OJ:310:TYR:HE2	46:OJ:367:PHE:HZ	1.62	0.48
46:ON:375:GLN:HB2	46:ON:379:LYS:HZ3	1.79	0.48
46:PB:262:ARG:NH1	46:PB:421:GLU:OE1	2.45	0.48
46:PD:87:PRO:HA	46:PD:90:PHE:CD2	2.49	0.48
45:PG:205:ASP:OD1	45:PG:303:ALA:HA	2.14	0.48
45:PG:221:ARG:HA	46:PH:324:LYS:NZ	2.28	0.48
46:PJ:16:ILE:HD13	46:PJ:226:ASN:OD1	2.14	0.48
46:PJ:86:ARG:NE	46:QH:281:TYR:HB3	2.28	0.48
45:PK:206:ASN:OD1	47:PK:501:GTP:N2	2.47	0.48
46:PL:121:ARG:O	46:PL:125:GLU:HG2	2.14	0.48
45:PM:394:LYS:HE3	46:PN:346:PRO:HG2	1.96	0.48
46:PN:5:VAL:HG12	46:PN:62:ARG:HD3	1.95	0.48
45:QC:52:PHE:HZ	45:QC:239:THR:HG21	1.78	0.48
46:QD:3:GLU:HG3	46:QD:62:ARG:NH1	2.29	0.48
46:QD:207:LEU:HD13	46:QD:225:LEU:HB3	1.95	0.48
46:QD:418:LEU:HD12	46:QD:421:GLU:OE1	2.13	0.48
46:QF:49:VAL:HG21	46:QF:241:ARG:HG2	1.96	0.48
46:QF:346:PRO:HG2	45:QG:394:LYS:NZ	2.28	0.48
45:QI:345:ASP:CG	46:QJ:390:ARG:HH22	2.17	0.48
45:QK:136:LEU:HD12	45:QK:169:PHE:HE2	1.79	0.48
45:QK:322:ASP:OD2	45:QK:373:ARG:NH1	2.44	0.48
45:RA:287:SER:O	45:RA:291:ILE:HG12	2.13	0.48
46:RB:407:GLU:HA	46:RB:410:GLU:CD	2.34	0.48
45:RC:119:LEU:HA	45:RC:122:ILE:HG12	1.95	0.48
45:RE:288:VAL:HG11	45:RE:327:ASP:HB3	1.95	0.48
46:RH:67:ASP:OD1	46:RH:68:LEU:N	2.46	0.48
45:RI:72:PRO:O	45:RI:76:ASP:HB2	2.14	0.48
45:RK:265:ILE:HG12	45:RK:432:TYR:CE1	2.49	0.48
45:RM:102:ASN:ND2	45:RM:105:ARG:HG2	2.29	0.48
45:RM:217:LEU:HD22	45:RM:367:ASP:HB3	1.95	0.48
46:SB:64:ILE:HA	46:SB:89:ASN:HB3	1.96	0.48
46:SB:370:ASN:OD1	46:SB:422:TYR:OH	2.30	0.48
45:SC:118:CYS:O	45:SC:122:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SC:141:VAL:HG12	45:SC:171:ILE:O	2.13	0.48
45:SC:329:ASN:HB3	46:SD:175:VAL:HG12	1.95	0.48
46:SD:379:LYS:O	46:SD:383:GLU:OE1	2.31	0.48
45:SI:80:THR:O	45:SI:84:ARG:NH2	2.46	0.48
45:SI:211:ASP:HA	45:SI:214:ARG:HG2	1.96	0.48
46:SL:64:ILE:HG21	46:SL:116:VAL:HG23	1.96	0.48
46:SL:350:LYS:NZ	45:SM:180:ALA:HA	2.29	0.48
46:SN:198:GLU:HG2	46:SN:266:PHE:HE2	1.78	0.48
46:TF:409:THR:O	46:TF:412:GLU:HG3	2.14	0.48
45:TG:82:THR:HG23	45:TG:83:TYR:CD2	2.48	0.48
45:TG:88:HIS:ND1	45:TG:91:GLN:OE1	2.44	0.48
45:UC:227:LEU:O	45:UC:231:ILE:HG12	2.13	0.48
45:UE:38:SER:O	45:UE:38:SER:OG	2.32	0.48
46:UF:221:THR:HG23	46:UF:223:GLY:H	1.78	0.48
46:UH:60:VAL:HG21	46:VH:281:TYR:HE1	1.77	0.48
46:UJ:383:GLU:HA	46:UJ:386:THR:HG22	1.96	0.48
45:UM:227:LEU:O	45:UM:231:ILE:HG12	2.13	0.48
45:UM:242:LEU:HD21	45:UM:251:ASP:HA	1.96	0.48
46:UN:22:GLU:HG2	46:UN:81:PHE:HB2	1.95	0.48
46:UN:404:ASP:O	46:UN:407:GLU:HG2	2.13	0.48
45:VA:69:ASP:CG	45:VA:75:ILE:HD13	2.33	0.48
46:VB:345:ILE:O	46:VB:345:ILE:HG13	2.14	0.48
45:VE:135:PHE:HE2	45:VE:157:LEU:HD12	1.79	0.48
45:VE:319:TYR:HE2	45:VE:328:VAL:HG13	1.79	0.48
46:VF:116:VAL:HA	46:VF:119:VAL:HG12	1.96	0.48
45:VG:414:GLU:CD	45:VG:416:GLY:H	2.15	0.48
46:VH:216:LYS:HG2	46:VH:275:SER:HB3	1.96	0.48
45:VK:301:MET:HE1	45:VK:305:CYS:O	2.13	0.48
46:WB:167:PHE:CE2	46:WB:200:MET:HG3	2.49	0.48
45:WE:306:ASP:OD2	45:WE:308:ARG:NH2	2.39	0.48
45:WG:259:LEU:HD13	45:WG:268:MET:HE1	1.95	0.48
46:WH:143:THR:OG1	49:WH:501:GDP:O1B	2.25	0.48
45:WI:66:VAL:HG11	45:WI:122:ILE:HD11	1.94	0.48
45:WI:223:THR:HG23	45:WI:225:THR:H	1.78	0.48
45:WK:68:LEU:HD21	45:WK:118:CYS:HB3	1.95	0.48
45:WM:21:TRP:CZ2	45:WM:65:ALA:HB2	2.49	0.48
45:DC:333:ALA:O	45:DC:337:THR:HG23	2.14	0.48
14:OV:69:SER:OG	46:MN:336:LYS:HB3	2.14	0.48
15:OX:1:MET:H3	45:MA:249:ASN:HD22	1.60	0.48
1:1A:125:LEU:H	46:AF:279:GLN:HE22	1.60	0.48
19:1J:142:VAL:O	45:HE:57:GLY:HA3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1O:266:GLU:HB2	45:UA:282:TYR:CE1	2.48	0.48
24:2P:391:ARG:NH2	45:TM:365:GLY:H	2.12	0.48
25:3R:224:PHE:CD2	46:BN:80:PRO:HD3	2.49	0.48
33:4F:165:THR:HG21	45:IM:225:THR:HB	1.96	0.48
35:4S:106:PHE:CD1	35:4S:142:LEU:HD22	2.48	0.48
36:5D:36:ARG:HG2	36:5D:37:ASP:N	2.27	0.48
10:5Q:163:ARG:HG3	10:5Q:164:ARG:HG2	1.96	0.48
35:5S:122:GLN:O	35:5S:125:GLU:HG3	2.12	0.48
41:6H:167:LYS:HZ2	46:FB:362:LYS:HG3	1.79	0.48
34:7R:581:THR:OG1	34:7R:584:GLU:OE1	2.20	0.48
46:AB:268:ILE:HG13	46:AB:300:MET:HE2	1.95	0.48
46:AD:99:ASN:HA	46:AD:142:GLY:H	1.79	0.48
45:BA:107:HIS:HD2	45:BA:108:TYR:CE2	2.32	0.48
46:BB:38:GLY:HA3	46:BB:43:GLN:HE22	1.78	0.48
46:BH:150:LEU:O	46:BH:154:LYS:HG2	2.13	0.48
46:BH:396:HIS:HA	46:BH:399:THR:OG1	2.14	0.48
45:BK:103:PHE:H	45:BK:408:TYR:HE2	1.61	0.48
46:CD:130:LEU:HB3	46:CD:162:ARG:HH21	1.78	0.48
46:CH:145:SER:HB2	46:CH:188:SER:HB3	1.96	0.48
45:CI:314:ALA:N	45:CI:380:ASN:OD1	2.47	0.48
46:CJ:86:ARG:HB2	46:CJ:89:ASN:HB2	1.95	0.48
45:DA:326:LYS:HG2	46:DB:208:TYR:CD1	2.49	0.48
45:DE:433:GLU:O	45:DE:437:ILE:HG12	2.13	0.48
46:DH:312:THR:HG22	46:DH:370:ASN:HB3	1.96	0.48
45:DK:221:ARG:HA	45:DK:221:ARG:HD2	1.67	0.48
45:EC:60:LYS:HZ1	45:FA:282:TYR:HD2	1.62	0.48
46:ED:4:ILE:HG13	46:ED:132:GLY:O	2.14	0.48
46:ED:256:ASN:HD22	46:ED:350:LYS:HB2	1.78	0.48
46:ED:322:SER:HB2	45:EE:223:THR:HA	1.96	0.48
45:EE:90:GLU:OE1	45:FC:280:LYS:HE3	2.14	0.48
45:EE:296:PHE:HZ	45:EE:315:CYS:HG	1.61	0.48
46:EF:68:LEU:HD13	46:EF:143:THR:OG1	2.13	0.48
46:EJ:122:LYS:HG3	46:FJ:291:GLN:NE2	2.28	0.48
46:EN:116:VAL:HA	46:EN:119:VAL:HG12	1.96	0.48
46:FB:257:LEU:HD21	46:FB:368:VAL:HG13	1.95	0.48
46:FD:150:LEU:O	46:FD:154:LYS:HG2	2.14	0.48
45:FK:241:SER:OG	45:FK:250:VAL:O	2.29	0.48
46:GB:100:ASN:HD22	46:GB:103:LYS:HB2	1.78	0.48
45:GC:221:ARG:HA	45:GC:221:ARG:NH1	2.28	0.48
45:GE:288:VAL:HA	45:GE:291:ILE:HG12	1.94	0.48
46:GH:16:ILE:HD13	46:GH:226:ASN:OD1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GI:102:ASN:ND2	45:GI:105:ARG:HG3	2.29	0.48
46:GJ:287:PRO:HA	46:GJ:290:THR:HG22	1.96	0.48
45:GK:98:ASP:OD1	45:GK:99:ALA:N	2.47	0.48
46:GL:190:HIS:CD2	46:GL:411:ALA:HA	2.42	0.48
46:GL:226:ASN:HA	46:GL:229:VAL:HG12	1.96	0.48
45:GM:171:ILE:HG23	45:GM:204:LEU:O	2.13	0.48
46:GN:383:GLU:HA	46:GN:386:THR:HG22	1.96	0.48
45:HA:260:VAL:HG13	45:HA:265:ILE:O	2.14	0.48
45:HC:331:SER:O	45:HC:335:ILE:HG12	2.14	0.48
46:HD:257:LEU:HD11	46:HD:314:SER:OG	2.14	0.48
45:HE:223:THR:HG23	45:HE:225:THR:H	1.79	0.48
46:HF:186:THR:HA	46:HF:189:VAL:HG12	1.96	0.48
45:HG:384:ILE:O	45:HG:387:VAL:HG22	2.14	0.48
45:HI:260:VAL:O	45:HI:260:VAL:HG13	2.14	0.48
46:HJ:293:MET:HE2	46:HJ:367:PHE:HD1	1.78	0.48
46:HL:154:LYS:O	46:HL:157:GLU:HG3	2.13	0.48
45:HM:268:MET:HB2	45:HM:379:SER:O	2.14	0.48
46:HN:54:ALA:HB3	46:HN:58:ARG:HG2	1.95	0.48
45:IA:120:ASP:O	45:IA:124:LYS:HG3	2.14	0.48
46:IB:309:ARG:HH21	46:IB:342:VAL:HA	1.79	0.48
45:IC:296:PHE:HE2	45:IC:335:ILE:HG21	1.79	0.48
46:ID:130:LEU:HB3	46:ID:162:ARG:NH1	2.23	0.48
46:IF:139:LEU:HD22	46:IF:170:VAL:HG12	1.96	0.48
45:IG:107:HIS:ND1	45:IG:107:HIS:O	2.47	0.48
45:II:118:CYS:O	45:II:122:ILE:HG12	2.14	0.48
46:IJ:4:ILE:HG13	46:IJ:132:GLY:O	2.14	0.48
45:IK:183:GLU:N	45:IK:184:PRO:HD2	2.28	0.48
45:IM:22:GLU:HG2	45:IM:83:TYR:OH	2.13	0.48
46:JB:280:GLN:HG2	46:JB:281:TYR:HD2	1.78	0.48
45:JC:278:ALA:HA	45:JC:369:ALA:HB2	1.96	0.48
45:JE:112:LYS:HA	45:JE:115:VAL:HG22	1.95	0.48
45:JE:167:LEU:HD22	45:JE:200:VAL:HB	1.96	0.48
45:JE:271:SER:OG	45:JE:301:MET:SD	2.72	0.48
45:JG:183:GLU:N	45:JG:184:PRO:HD2	2.29	0.48
45:JG:244:PHE:HB2	45:JG:356:ASN:HD21	1.78	0.48
46:JH:133:PHE:HB2	46:JH:164:MET:SD	2.54	0.48
46:JH:322:SER:O	46:JH:325:GLU:HG2	2.13	0.48
45:JI:298:PRO:HG3	45:JI:308:ARG:NH2	2.29	0.48
46:JJ:304:ASP:OD2	46:JJ:306:ARG:HG2	2.14	0.48
46:JL:206:ALA:O	46:JL:210:ILE:HG12	2.14	0.48
45:JM:8:HIS:CD2	45:JM:138:PHE:HD2	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KD:210:ILE:N	46:KD:297:LYS:HZ1	2.12	0.48
45:KG:221:ARG:HA	46:KH:324:LYS:NZ	2.29	0.48
45:KM:88:HIS:O	45:KM:91:GLN:HG2	2.14	0.48
45:KM:183:GLU:N	45:KM:184:PRO:HD2	2.28	0.48
46:KN:406:MET:O	46:KN:409:THR:N	2.46	0.48
45:LC:174:SER:HB2	45:LC:177:VAL:O	2.14	0.48
46:LF:192:LEU:HD21	46:LF:199:CYS:SG	2.54	0.48
45:LI:17:GLY:HA2	45:LI:20:CYS:SG	2.54	0.48
46:LJ:248:SER:HA	46:LJ:252:LYS:HD2	1.96	0.48
45:LM:98:ASP:OD1	45:LM:99:ALA:N	2.46	0.48
46:MB:278:SER:HA	46:MB:281:TYR:HD1	1.79	0.48
45:ME:150:GLY:O	45:ME:154:LEU:HD23	2.13	0.48
46:MF:66:MET:HA	46:MF:91:VAL:HG23	1.95	0.48
45:MG:1:MET:SD	45:MG:1:MET:N	2.85	0.48
45:MI:217:LEU:HD12	45:MI:367:ASP:HB3	1.95	0.48
46:MJ:288:GLU:OE1	46:MJ:288:GLU:N	2.46	0.48
46:MJ:372:THR:HA	46:MJ:422:TYR:CE2	2.49	0.48
45:MK:208:ALA:O	45:MK:212:ILE:HG12	2.13	0.48
45:MK:258:ASN:HD21	46:MN:178:THR:HG23	1.78	0.48
45:MM:36:MET:SD	45:MM:37:PRO:HD2	2.54	0.48
46:NB:155:VAL:HA	46:NB:158:GLU:OE1	2.14	0.48
46:NH:122:LYS:HE3	46:NH:122:LYS:HB2	1.67	0.48
46:NJ:285:THR:N	46:NJ:288:GLU:OE2	2.30	0.48
46:NL:200:MET:SD	46:NL:268:ILE:HD13	2.53	0.48
45:OA:203:MET:HE2	45:OA:268:MET:C	2.34	0.48
45:OA:256:GLN:CD	45:OA:256:GLN:H	2.17	0.48
45:OC:21:TRP:CZ2	45:OC:65:ALA:HB2	2.49	0.48
46:ON:276:ARG:HA	46:ON:279:GLN:OE1	2.14	0.48
46:ON:297:LYS:HD3	46:ON:297:LYS:N	2.29	0.48
45:PA:229:ARG:HH12	45:PA:363:VAL:HG21	1.79	0.48
45:PA:316:SER:HA	45:PA:352:LYS:HB2	1.96	0.48
46:PD:165:GLU:OE2	46:PD:250:LEU:HD12	2.14	0.48
46:PD:379:LYS:O	46:PD:383:GLU:HG2	2.13	0.48
45:PE:261:PRO:HA	46:PH:394:PHE:CD1	2.49	0.48
45:PG:88:HIS:HB3	45:PG:91:GLN:HG2	1.94	0.48
45:PI:230:LEU:HD11	45:PI:275:ILE:HD13	1.96	0.48
46:PJ:154:LYS:HA	46:PJ:157:GLU:OE1	2.14	0.48
45:PK:76:ASP:HA	45:PK:79:ARG:HG2	1.96	0.48
46:PL:109:GLY:HA2	46:PL:112:LEU:HG	1.96	0.48
46:PL:312:THR:HG22	46:PL:370:ASN:HB3	1.95	0.48
46:PN:18:ALA:O	46:PN:22:GLU:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PN:105:HIS:CE1	46:PN:150:LEU:HD12	2.49	0.48
45:QA:172:TYR:CD2	45:QA:203:MET:HG3	2.48	0.48
46:QB:253:LEU:HD12	46:QB:257:LEU:HD13	1.96	0.48
46:QB:313:ALA:HB1	46:QB:367:PHE:CE1	2.49	0.48
45:QE:68:LEU:HD11	45:QE:118:CYS:SG	2.53	0.48
45:QG:19:ALA:HA	45:QG:22:GLU:OE1	2.14	0.48
45:QG:261:PRO:HA	46:QH:394:PHE:CD1	2.48	0.48
45:QG:318:MET:HB2	45:QG:376:CYS:SG	2.54	0.48
46:QJ:132:GLY:HA3	46:QJ:163:ILE:HG22	1.96	0.48
46:QL:152:ILE:HG22	46:QL:195:ASN:HD21	1.78	0.48
46:QL:321:MET:HG3	45:QM:221:ARG:HH22	1.79	0.48
46:RD:194:GLU:OE2	46:RD:414:ASN:ND2	2.45	0.48
45:RE:138:PHE:CD1	45:RE:169:PHE:HB2	2.48	0.48
46:RF:208:TYR:CE1	46:RF:225:LEU:HD11	2.48	0.48
45:RI:31:GLN:NE2	45:RI:35:GLN:O	2.47	0.48
45:RI:288:VAL:HA	45:RI:291:ILE:HG12	1.96	0.48
45:RI:402:ARG:HG2	45:RI:405:VAL:HG21	1.95	0.48
45:RK:206:ASN:HB3	45:RK:210:TYR:CE2	2.49	0.48
46:RL:286:VAL:HB	46:RL:325:GLU:HG2	1.96	0.48
45:RM:224:TYR:O	45:RM:227:LEU:HG	2.13	0.48
45:SA:171:ILE:HG23	45:SA:204:LEU:O	2.14	0.48
46:SD:324:LYS:O	46:SD:327:ASP:N	2.47	0.48
46:SF:68:LEU:HD13	46:SF:143:THR:OG1	2.13	0.48
46:SF:317:PHE:CD1	46:SF:365:VAL:HG22	2.48	0.48
46:SH:330:MET:SD	46:SH:349:ILE:HG21	2.54	0.48
46:SJ:86:ARG:NE	46:SJ:86:ARG:HA	2.28	0.48
46:SJ:173:PRO:CG	46:SJ:380:ARG:HE	2.26	0.48
45:SK:326:LYS:HD2	46:SL:212:PHE:HZ	1.79	0.48
46:SL:313:ALA:HB1	46:SL:367:PHE:CE1	2.47	0.48
46:SN:289:LEU:HD13	46:SN:365:VAL:HG23	1.95	0.48
45:TM:326:LYS:HG2	45:TM:327:ASP:N	2.29	0.48
45:TM:326:LYS:NZ	46:TN:219:THR:HA	2.28	0.48
46:UD:221:THR:HG23	46:UD:224:ASP:H	1.79	0.48
46:UH:341:PHE:CE2	46:UH:349:ILE:HD11	2.49	0.48
46:UL:167:PHE:HA	46:UL:200:MET:HB3	1.95	0.48
45:UM:107:HIS:ND1	45:UM:107:HIS:O	2.47	0.48
46:UN:145:SER:HB2	46:UN:188:SER:HB3	1.95	0.48
45:VC:231:ILE:O	45:VC:235:ILE:HG12	2.14	0.48
45:VE:141:VAL:HG11	45:VE:172:TYR:HD1	1.79	0.48
45:VG:347:CYS:HA	46:VJ:388:MET:HE1	1.95	0.48
45:VI:269:LEU:HD23	45:VI:379:SER:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VK:427:ALA:HA	45:VK:430:LYS:NZ	2.28	0.48
46:VL:3:GLU:OE1	46:VL:127:CYS:HB2	2.14	0.48
46:VL:139:LEU:HD22	46:VL:188:SER:OG	2.14	0.48
46:VN:49:VAL:HG12	46:VN:50:TYR:HD2	1.78	0.48
45:WE:398:MET:HE3	46:WF:345:ILE:HA	1.96	0.48
45:WK:205:ASP:HB2	45:WK:304:LYS:HZ3	1.78	0.48
45:WK:334:THR:O	45:WK:338:LYS:HG3	2.14	0.48
46:WL:299:MET:HG3	46:WL:305:PRO:HG3	1.96	0.48
46:WN:247:ASN:O	46:WN:252:LYS:NZ	2.39	0.48
45:DC:11:GLN:NE2	47:DC:501:GTP:O1A	2.47	0.48
45:DC:319:TYR:CD2	45:DC:323:VAL:HG21	2.48	0.48
2:OB:212:SER:N	45:JI:47:ASP:OD2	2.46	0.48
4:OD:20:LYS:NZ	46:CB:53:GLU:OE1	2.38	0.48
15:IX:99:VAL:HG22	45:MC:282:TYR:HE2	1.79	0.48
21:2L:525:LEU:HB2	46:BN:320:ARG:CZ	2.43	0.48
1:3A:39:TYR:CD2	45:MM:81:GLY:HA3	2.48	0.48
31:3I:252:ASP:H	45:FI:96:LYS:HE3	1.77	0.48
15:4X:27:PHE:O	15:4X:28:GLU:HG3	2.14	0.48
36:5D:80:ASN:O	36:5D:84:TYR:HD1	1.96	0.48
37:5H:11:TRP:HE3	37:5H:14:ARG:NH1	2.12	0.48
45:AA:271:SER:OG	45:AA:377:MET:HB3	2.13	0.48
45:AA:296:PHE:HE1	45:AA:377:MET:HG3	1.77	0.48
46:AD:16:ILE:HG21	46:AD:136:THR:HG21	1.96	0.48
46:AH:288:GLU:HA	46:AH:291:GLN:HG3	1.95	0.48
46:AJ:295:ASP:OD1	46:AJ:296:ALA:N	2.46	0.48
46:BB:287:PRO:HG3	46:BB:329:GLN:NE2	2.28	0.48
45:BC:419:SER:O	45:BC:422:ARG:N	2.47	0.48
46:BF:287:PRO:HG3	46:BF:329:GLN:NE2	2.29	0.48
45:BG:164:LYS:O	45:BG:166:LYS:NZ	2.47	0.48
46:BL:105:HIS:CD2	46:BL:150:LEU:HB2	2.48	0.48
45:CA:32:PRO:HB3	45:CA:83:TYR:HE1	1.78	0.48
46:CB:169:VAL:HG12	46:CB:202:ILE:HB	1.96	0.48
46:CH:63:ALA:O	46:CH:89:ASN:ND2	2.36	0.48
46:CJ:148:GLY:O	46:CJ:152:ILE:HG13	2.14	0.48
46:CJ:321:MET:HB2	45:CK:221:ARG:NH2	2.29	0.48
45:DE:288:VAL:HG11	45:DE:327:ASP:HB3	1.95	0.48
45:DG:30:ILE:HD11	45:DG:34:GLY:O	2.14	0.48
45:DG:251:ASP:HB3	45:DG:253:THR:HG22	1.96	0.48
45:DK:69:ASP:OD2	45:DK:70:LEU:N	2.46	0.48
46:DN:73:MET:HE3	46:DN:92:PHE:HB3	1.96	0.48
45:EA:265:ILE:HG22	45:EA:380:ASN:HD21	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EC:69:ASP:OD1	45:EC:70:LEU:N	2.47	0.48
45:EC:244:PHE:HB2	45:EC:356:ASN:HD21	1.79	0.48
45:EC:343:PHE:HZ	45:EC:351:PHE:HE1	1.62	0.48
46:EF:293:MET:HG3	46:EF:367:PHE:HB2	1.95	0.48
45:EG:205:ASP:OD1	45:EG:303:ALA:HA	2.14	0.48
46:EH:201:VAL:HG21	46:EH:374:ILE:HD11	1.96	0.48
45:EI:256:GLN:O	46:EJ:397:TRP:NE1	2.46	0.48
46:EJ:8:GLN:OE1	46:EJ:14:ASN:HA	2.14	0.48
45:EK:359:PRO:HB2	45:EK:370:LYS:HZ3	1.79	0.48
46:EL:174:LYS:HB2	46:EL:205:GLU:OE2	2.13	0.48
46:FB:3:GLU:OE2	46:FB:49:VAL:HA	2.14	0.48
45:FC:120:ASP:O	45:FC:124:LYS:HG2	2.14	0.48
46:FH:226:ASN:ND2	49:FH:501:GDP:HN1	2.12	0.48
45:FI:257:THR:HA	46:FL:397:TRP:CZ3	2.49	0.48
45:FI:414:GLU:CD	45:FI:416:GLY:H	2.17	0.48
45:FM:184:PRO:O	45:FM:188:ILE:HG12	2.14	0.48
46:GD:180:VAL:O	46:GD:180:VAL:HG12	2.14	0.48
45:GG:331:SER:O	45:GG:335:ILE:HG12	2.14	0.48
45:GG:332:ILE:HD12	45:GG:351:PHE:CD2	2.49	0.48
46:HB:289:LEU:HD11	46:HB:363:MET:HB3	1.95	0.48
46:HD:105:HIS:CE1	46:HD:150:LEU:HD12	2.49	0.48
46:HF:139:LEU:HD13	46:HF:168:SER:HB3	1.96	0.48
45:HI:183:GLU:N	45:HI:184:PRO:HD2	2.29	0.48
45:HI:188:ILE:HG12	45:HI:421:ALA:HB1	1.95	0.48
45:HK:2:ARG:O	45:HK:51:THR:HA	2.14	0.48
45:IA:152:LEU:O	45:IA:155:GLU:HG3	2.13	0.48
45:IE:97:GLU:CD	45:IE:105:ARG:HH12	2.17	0.48
45:IE:231:ILE:O	45:IE:235:ILE:HG12	2.14	0.48
45:IG:271:SER:HA	45:IG:302:MET:HE2	1.96	0.48
45:IM:205:ASP:OD1	45:IM:303:ALA:HA	2.14	0.48
45:IM:213:CYS:HA	45:IM:217:LEU:HB2	1.96	0.48
46:JB:263:LEU:HD11	46:JB:425:TYR:HE2	1.79	0.48
45:JG:286:LEU:HD13	45:JG:371:VAL:HG23	1.96	0.48
46:JL:232:ALA:O	46:JL:236:VAL:HG23	2.14	0.48
45:KC:188:ILE:HD12	45:KC:425:LEU:HG	1.96	0.48
45:KE:79:ARG:O	45:KE:84:ARG:HG2	2.13	0.48
45:KG:27:GLU:OE2	45:KG:243:ARG:NH1	2.47	0.48
45:KG:68:LEU:HD22	45:KG:153:LEU:HD11	1.95	0.48
46:KH:192:LEU:HD21	46:KH:199:CYS:SG	2.54	0.48
46:KH:336:LYS:HA	46:KH:336:LYS:HE2	1.96	0.48
45:KM:205:ASP:OD1	45:KM:303:ALA:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KM:360:PRO:O	45:KM:370:LYS:NZ	2.47	0.48
46:KN:232:ALA:HB1	46:KN:268:ILE:HD12	1.95	0.48
46:LB:150:LEU:O	46:LB:154:LYS:HG2	2.13	0.48
45:LE:135:PHE:CZ	45:LE:161:TYR:HE2	2.32	0.48
46:LF:285:THR:HB	46:LF:287:PRO:HD2	1.96	0.48
45:LG:377:MET:SD	45:LG:379:SER:HB3	2.54	0.48
45:LI:254:GLU:OE1	45:LI:257:THR:OG1	2.29	0.48
45:LK:329:ASN:HD21	46:LN:208:TYR:HE2	1.61	0.48
46:LL:31:ASP:OD2	46:LL:37:HIS:ND1	2.47	0.48
46:LL:99:ASN:HA	46:LL:142:GLY:H	1.78	0.48
45:MC:377:MET:SD	45:MC:379:SER:HB2	2.54	0.48
46:MN:268:ILE:HG22	46:MN:368:VAL:HG22	1.96	0.48
45:NA:398:MET:HE1	46:NB:346:PRO:HD2	1.96	0.48
45:NC:77:GLU:OE2	46:ND:243:PRO:HG3	2.14	0.48
45:NG:386:GLU:O	45:NG:390:ARG:HG2	2.14	0.48
45:NI:69:ASP:OD1	45:NI:70:LEU:N	2.47	0.48
45:NI:136:LEU:HD22	45:NI:169:PHE:HE2	1.79	0.48
46:NJ:201:VAL:O	46:NJ:202:ILE:HD13	2.14	0.48
45:NK:276:ILE:HD11	45:NK:283:HIS:CG	2.49	0.48
45:NM:328:VAL:O	45:NM:332:ILE:HG12	2.14	0.48
45:OE:328:VAL:O	45:OE:332:ILE:HG12	2.14	0.48
45:OG:311:LYS:HD2	45:OG:343:PHE:C	2.33	0.48
45:OI:183:GLU:N	45:OI:184:PRO:HD2	2.28	0.48
45:OK:89:PRO:HG2	45:PK:280:LYS:HD3	1.95	0.48
46:ON:105:HIS:CD2	46:ON:150:LEU:HB2	2.49	0.48
46:PB:100:ASN:HD22	46:PB:103:LYS:HB2	1.78	0.48
45:PE:399:TYR:O	45:PE:402:ARG:NH1	2.45	0.48
46:PH:153:SER:HB3	46:PH:154:LYS:NZ	2.29	0.48
46:PJ:105:HIS:CE1	46:PJ:150:LEU:HD12	2.49	0.48
46:PL:1:MET:N	46:PL:3:GLU:OE2	2.33	0.48
46:PN:274:THR:HG21	46:PN:282:ARG:NH2	2.28	0.48
45:QA:32:PRO:HB3	45:QA:83:TYR:HE1	1.79	0.48
45:QA:288:VAL:HG11	45:QA:327:ASP:HB3	1.96	0.48
46:QB:116:VAL:HA	46:QB:119:VAL:HG12	1.95	0.48
46:QH:65:LEU:HD22	46:QH:90:PHE:CE1	2.49	0.48
45:QM:79:ARG:NH2	45:QM:89:PRO:O	2.45	0.48
46:RF:20:PHE:CD2	46:RF:21:TRP:HD1	2.32	0.48
45:RG:263:PRO:HD3	46:RH:396:HIS:CE1	2.49	0.48
46:RH:139:LEU:HD13	46:RH:168:SER:HB3	1.95	0.48
45:RK:260:VAL:HG23	46:RL:397:TRP:HZ2	1.78	0.48
46:SB:322:SER:HB2	45:SC:222:PRO:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SC:214:ARG:HA	45:SC:214:ARG:NH1	2.28	0.48
46:SH:208:TYR:HE1	46:SH:225:LEU:HD11	1.78	0.48
46:SJ:5:VAL:HG12	46:SJ:62:ARG:HD3	1.95	0.48
46:SJ:190:HIS:CE1	46:SJ:414:ASN:HD22	2.32	0.48
46:SN:237:THR:HG23	46:SN:241:ARG:HH21	1.77	0.48
46:TD:325:GLU:HA	46:TD:328:GLU:HG2	1.96	0.48
46:TD:372:THR:HA	46:TD:422:TYR:HE2	1.79	0.48
45:TE:3:GLU:OE2	45:TE:131:GLY:N	2.44	0.48
46:TJ:23:VAL:HG11	46:TJ:230:SER:HB3	1.96	0.48
46:TJ:154:LYS:HA	46:TJ:157:GLU:OE1	2.14	0.48
46:TL:377:MET:HE3	46:TL:377:MET:HA	1.96	0.48
46:UB:97:ALA:HB3	46:UB:143:THR:HB	1.95	0.48
46:UB:284:LEU:HA	46:UB:288:GLU:OE2	2.14	0.48
46:UH:290:THR:HA	46:UH:293:MET:HG2	1.95	0.48
45:UK:205:ASP:OD1	45:UK:303:ALA:HA	2.14	0.48
46:UN:87:PRO:HA	46:UN:90:PHE:CD2	2.47	0.48
45:VA:182:VAL:HG22	45:VA:185:TYR:HB2	1.94	0.48
46:VB:67:ASP:OD1	46:VB:68:LEU:N	2.46	0.48
46:VD:3:GLU:HB3	46:VD:49:VAL:HA	1.95	0.48
46:VD:9:GLY:HA2	46:VD:66:MET:O	2.14	0.48
46:VD:21:TRP:CZ2	46:VD:63:ALA:HB2	2.49	0.48
46:VD:54:ALA:HB3	46:VD:58:ARG:HG2	1.96	0.48
45:VE:223:THR:HA	46:VF:322:SER:HB2	1.95	0.48
45:VG:135:PHE:HB2	45:VG:166:LYS:HG2	1.96	0.48
46:VH:257:LEU:HD11	46:VH:314:SER:HB2	1.95	0.48
46:VJ:72:THR:O	46:VJ:75:SER:OG	2.24	0.48
46:VJ:406:MET:O	46:VJ:410:GLU:HG2	2.13	0.48
46:VL:20:PHE:O	46:VL:24:ILE:HG12	2.13	0.48
46:VL:282:ARG:HG2	46:VL:282:ARG:HH11	1.79	0.48
46:VL:322:SER:OG	46:VL:325:GLU:OE2	2.32	0.48
46:VL:342:VAL:HG13	46:VL:345:ILE:HG22	1.95	0.48
46:WB:222:TYR:O	46:WB:226:ASN:ND2	2.29	0.48
45:WE:231:ILE:O	45:WE:235:ILE:HG12	2.14	0.48
46:WF:170:VAL:HG22	46:WF:202:ILE:O	2.14	0.48
45:WG:251:ASP:OD2	45:WG:252:ILE:N	2.47	0.48
46:WJ:12:CYS:O	46:WJ:16:ILE:HG12	2.14	0.48
45:WK:261:PRO:HA	46:WN:394:PHE:CD2	2.49	0.48
46:WL:304:ASP:OD1	46:WL:306:ARG:NH1	2.46	0.48
45:WM:221:ARG:NH1	46:WN:325:GLU:OE1	2.46	0.48
46:WN:9:GLY:HA2	46:WN:66:MET:O	2.13	0.48
46:WN:271:ALA:HB3	46:WN:365:VAL:HB	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0A:103:GLN:NE2	34:7R:58:ARG:H	2.12	0.47
4:0D:177:THR:HG22	46:EB:48:ASN:OD1	2.13	0.47
18:1I:141:PHE:CE2	46:KF:43:GLN:HG3	2.49	0.47
21:2L:525:LEU:HB2	46:BN:320:ARG:NH1	2.27	0.47
25:2R:235:PHE:CE1	46:CH:216:LYS:HG3	2.48	0.47
12:2T:133:LYS:HE3	45:MG:127:ASP:O	2.14	0.47
26:2W:254:ARG:NH2	34:6R:21:LEU:HB2	2.29	0.47
36:5C:163:ALA:HB1	45:NK:279:GLU:O	2.14	0.47
37:5E:165:PRO:HD2	37:5E:166:ARG:HH11	1.78	0.47
34:5R:231:TYR:HA	34:5R:234:VAL:HG12	1.95	0.47
34:5R:264:ASP:HB3	34:5R:269:GLY:HA3	1.96	0.47
34:5R:322:THR:OG1	34:5R:324:LYS:HG2	2.14	0.47
35:5S:148:LYS:O	35:5S:152:THR:HG23	2.14	0.47
39:6F:43:GLU:OE1	39:6F:56:LEU:HA	2.13	0.47
40:6G:207:TYR:HD2	46:VF:306:ARG:HG3	1.79	0.47
41:6H:242:LYS:O	41:6H:244:SER:N	2.47	0.47
41:6H:352:LYS:HD2	41:6H:353:ALA:N	2.28	0.47
10:6Q:84:LYS:NZ	10:6Q:127:GLU:HG3	2.29	0.47
10:6Q:103:PHE:HE1	10:6Q:144:TYR:HE1	1.62	0.47
34:6R:318:TYR:OH	46:CN:274:THR:N	2.47	0.47
45:AC:2:ARG:HB3	45:AC:133:GLN:HE22	1.79	0.47
45:AC:141:VAL:HG11	45:AC:172:TYR:HA	1.94	0.47
46:AD:256:ASN:HD21	46:AD:350:LYS:HD3	1.78	0.47
46:AD:281:TYR:OH	46:MD:83:GLN:O	2.32	0.47
45:AE:256:GLN:OE1	45:AE:256:GLN:N	2.44	0.47
46:AF:190:HIS:CD2	46:AF:411:ALA:HA	2.49	0.47
45:AG:326:LYS:HD3	46:AJ:208:TYR:CD1	2.46	0.47
46:AL:281:TYR:OH	46:ML:83:GLN:O	2.25	0.47
45:AM:171:ILE:HG23	45:AM:204:LEU:O	2.14	0.47
45:AM:319:TYR:HB3	45:AM:323:VAL:HG11	1.96	0.47
45:BC:390:ARG:HG3	45:BC:390:ARG:HH11	1.79	0.47
46:BD:19:LYS:HG3	46:BD:226:ASN:HB3	1.95	0.47
46:BD:362:LYS:HA	46:BD:362:LYS:HE2	1.94	0.47
45:BG:183:GLU:N	45:BG:184:PRO:HD2	2.29	0.47
46:BH:166:THR:HG21	46:BH:192:LEU:HD11	1.96	0.47
45:BI:254:GLU:HA	45:BI:257:THR:HG23	1.95	0.47
46:BJ:257:LEU:HD11	46:BJ:314:SER:HB2	1.96	0.47
45:CG:187:SER:O	45:CG:191:THR:HG23	2.13	0.47
45:CG:328:VAL:O	45:CG:332:ILE:HD12	2.13	0.47
46:CH:306:ARG:NH1	46:CH:340:TYR:HD2	2.12	0.47
45:DA:231:ILE:O	45:DA:235:ILE:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DB:21:TRP:CZ2	46:DB:63:ALA:HB2	2.49	0.47
46:DD:323:THR:OG1	45:DE:210:TYR:OH	2.17	0.47
45:DE:271:SER:OG	45:DE:301:MET:HG2	2.14	0.47
46:DH:175:VAL:HG22	46:DH:205:GLU:HG3	1.96	0.47
45:DK:183:GLU:N	45:DK:184:PRO:HD2	2.29	0.47
46:EB:246:LEU:HD11	45:EC:224:TYR:HE2	1.78	0.47
46:EL:10:GLY:O	46:EL:14:ASN:ND2	2.47	0.47
45:EM:258:ASN:ND2	45:EM:352:LYS:HE3	2.29	0.47
46:FF:190:HIS:NE2	46:FF:410:GLU:OE1	2.47	0.47
45:FG:221:ARG:HH22	46:FH:321:MET:HB2	1.79	0.47
45:FG:265:ILE:HG22	45:FG:380:ASN:HD21	1.79	0.47
46:FL:3:GLU:H	46:FL:3:GLU:CD	2.18	0.47
46:FN:244:GLY:HA3	46:FN:354:CYS:HA	1.96	0.47
45:GC:68:LEU:HD21	45:GC:118:CYS:SG	2.54	0.47
45:GG:98:ASP:OD1	45:GG:99:ALA:N	2.47	0.47
45:HC:183:GLU:N	45:HC:184:PRO:HD2	2.28	0.47
46:HF:21:TRP:CZ3	46:HF:61:PRO:HB3	2.49	0.47
45:HM:11:GLN:HG3	45:HM:74:VAL:HG11	1.96	0.47
45:HM:119:LEU:HA	45:HM:122:ILE:HD12	1.95	0.47
46:HN:316:LEU:HD23	46:HN:352:SER:HB2	1.96	0.47
46:IB:47:ILE:HG12	46:IB:51:TYR:HB2	1.95	0.47
46:IB:136:THR:HG22	46:IB:167:PHE:HD2	1.79	0.47
46:IB:221:THR:HG23	46:IB:224:ASP:H	1.78	0.47
46:ID:164:MET:CE	46:ID:196:ALA:HA	2.44	0.47
46:IF:145:SER:OG	46:IF:188:SER:HB3	2.14	0.47
45:IG:252:ILE:HD12	45:IG:252:ILE:H	1.79	0.47
45:II:11:GLN:OE1	46:IJ:247:ASN:ND2	2.47	0.47
46:IJ:2:ARG:HB3	46:IJ:131:GLN:OE1	2.14	0.47
45:IK:208:ALA:O	45:IK:212:ILE:HG12	2.14	0.47
46:IL:65:LEU:HD22	46:IL:90:PHE:HE1	1.78	0.47
46:JH:86:ARG:NH2	46:JH:88:ASP:OD2	2.46	0.47
46:JJ:183:TYR:O	46:JJ:187:LEU:HD23	2.14	0.47
46:JN:5:VAL:HG11	46:JN:123:GLU:OE1	2.14	0.47
46:KB:114:ASP:OD1	46:KB:115:SER:N	2.46	0.47
46:KD:395:LEU:O	46:KD:399:THR:HG23	2.13	0.47
45:KE:296:PHE:HE1	45:KE:377:MET:SD	2.37	0.47
46:KF:135:ILE:O	46:KF:166:THR:HA	2.14	0.47
45:KG:89:PRO:HB2	45:LG:280:LYS:HE2	1.95	0.47
45:KK:224:TYR:HA	45:KK:227:LEU:HD12	1.95	0.47
46:KN:423:GLN:O	46:KN:426:GLN:HG3	2.13	0.47
45:LA:223:THR:HG22	45:LA:224:TYR:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LB:233:MET:O	46:LB:236:VAL:HG12	2.14	0.47
46:LF:173:PRO:HG2	46:LF:380:ARG:HD2	1.95	0.47
46:LN:337:ASN:HB3	46:LN:340:TYR:CD2	2.48	0.47
45:MA:328:VAL:HG11	45:MA:353:VAL:HG21	1.95	0.47
46:MD:190:HIS:CD2	46:MD:411:ALA:HA	2.49	0.47
45:MG:254:GLU:OE1	45:MG:258:ASN:ND2	2.45	0.47
45:MI:175:PRO:HG2	45:MI:176:GLN:OE1	2.15	0.47
46:ML:260:PHE:HB2	46:ML:263:LEU:HD13	1.95	0.47
45:MM:102:ASN:ND2	45:MM:105:ARG:HG3	2.28	0.47
45:NA:174:SER:HB2	45:NA:177:VAL:O	2.13	0.47
45:NI:221:ARG:NE	46:NJ:325:GLU:OE2	2.47	0.47
45:NK:186:ASN:OD1	45:NK:187:SER:N	2.47	0.47
45:NK:394:LYS:HZ1	46:NL:346:PRO:HG2	1.79	0.47
45:NM:19:ALA:O	45:NM:22:GLU:HG2	2.13	0.47
46:NN:42:LEU:HA	46:NN:45:GLU:HG2	1.96	0.47
45:OA:253:THR:HG23	46:OD:98:GLY:HA2	1.95	0.47
46:OD:182:PRO:HG2	46:OD:388:MET:HG3	1.95	0.47
46:OF:222:TYR:HD2	49:OF:502:GDP:C6	2.31	0.47
45:OG:224:TYR:HE2	47:OG:501:GTP:C5	2.31	0.47
46:OH:175:VAL:HG22	46:OH:205:GLU:CD	2.35	0.47
46:OH:326:VAL:O	46:OH:330:MET:HG2	2.13	0.47
45:OK:371:VAL:HG12	45:OK:373:ARG:H	1.79	0.47
46:OL:125:GLU:OE1	46:PL:336:LYS:NZ	2.37	0.47
46:PB:58:ARG:NH2	46:PB:84:LEU:HA	2.24	0.47
45:PC:175:PRO:HB2	45:PC:176:GLN:OE1	2.13	0.47
45:PC:242:LEU:HD11	45:PC:252:ILE:HG23	1.95	0.47
45:PC:286:LEU:O	45:PC:373:ARG:NH2	2.46	0.47
46:PD:389:PHE:HZ	46:PD:405:GLU:HB2	1.77	0.47
46:PF:69:GLU:O	46:PF:73:MET:HE1	2.14	0.47
45:PM:5:ILE:HG22	45:PM:64:ARG:HG2	1.96	0.47
45:QA:251:ASP:HB2	45:QA:254:GLU:HG3	1.95	0.47
45:QA:292:THR:HG21	45:QA:331:SER:HB3	1.96	0.47
46:QB:156:ARG:NH2	46:QB:160:PRO:O	2.47	0.47
45:QC:118:CYS:O	45:QC:122:ILE:HG12	2.14	0.47
45:QC:296:PHE:HE2	45:QC:335:ILE:HD13	1.78	0.47
45:QE:20:CYS:HA	45:QE:232:ALA:HB1	1.95	0.47
45:QE:70:LEU:HD13	45:QE:145:THR:OG1	2.13	0.47
46:QL:286:VAL:CG1	46:QL:287:PRO:HD3	2.44	0.47
45:QM:296:PHE:CE1	45:QM:377:MET:HG3	2.48	0.47
46:RB:175:VAL:HG22	46:RB:205:GLU:HG2	1.96	0.47
45:RC:17:GLY:HA2	45:RC:20:CYS:SG	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RE:9:VAL:HG22	45:RE:146:GLY:HA2	1.96	0.47
45:RI:265:ILE:HG12	45:RI:432:TYR:HE2	1.78	0.47
46:RJ:326:VAL:O	46:RJ:330:MET:HG2	2.14	0.47
45:RM:288:VAL:HA	45:RM:291:ILE:HG12	1.95	0.47
46:RN:201:VAL:HG23	46:RN:301:CYS:SG	2.54	0.47
45:SE:255:PHE:O	45:SE:259:LEU:HB2	2.14	0.47
45:SK:32:PRO:O	45:SK:85:GLN:NE2	2.47	0.47
46:TB:322:SER:OG	45:TC:221:ARG:NH1	2.47	0.47
46:TD:39:ASP:OD1	46:TD:40:SER:N	2.47	0.47
46:TF:67:ASP:OD1	46:TF:68:LEU:N	2.46	0.47
46:TF:318:ARG:HH11	46:TF:358:PRO:HG3	1.78	0.47
45:TG:261:PRO:HB2	45:TG:265:ILE:HD11	1.96	0.47
46:TJ:7:ILE:HG23	46:TJ:64:ILE:HB	1.96	0.47
46:TJ:362:LYS:N	46:TJ:362:LYS:HD2	2.29	0.47
46:TL:268:ILE:HG22	46:TL:368:VAL:HG22	1.96	0.47
45:TM:1:MET:O	45:TM:131:GLY:HA3	2.14	0.47
45:TM:288:VAL:HG12	45:TM:373:ARG:HE	1.77	0.47
45:UC:231:ILE:O	45:UC:235:ILE:HG12	2.14	0.47
46:UD:128:ASP:OD1	46:UD:129:CYS:N	2.46	0.47
46:UF:189:VAL:HA	46:UF:192:LEU:HB2	1.96	0.47
46:UF:226:ASN:ND2	49:UF:501:GDP:HN1	2.08	0.47
46:UF:260:PHE:HB2	46:UF:263:LEU:HD23	1.95	0.47
45:UI:55:GLU:O	45:VG:285:GLN:NE2	2.46	0.47
45:UI:352:LYS:HZ1	46:UJ:179:VAL:N	2.11	0.47
46:UJ:154:LYS:O	46:UJ:157:GLU:HG2	2.13	0.47
45:UK:19:ALA:HA	45:UK:22:GLU:OE1	2.14	0.47
45:UK:148:GLY:O	45:UK:152:LEU:HG	2.14	0.47
46:VB:119:VAL:HA	46:VB:122:LYS:HG2	1.96	0.47
46:VD:65:LEU:HD22	46:VD:90:PHE:CE1	2.48	0.47
46:VH:201:VAL:O	46:VH:202:ILE:HD13	2.14	0.47
45:VI:2:ARG:O	45:VI:51:THR:HA	2.14	0.47
45:VK:280:LYS:CG	45:VK:283:HIS:HB2	2.44	0.47
46:VL:52:ASN:OD1	46:VL:62:ARG:NH2	2.48	0.47
45:WA:33:ASP:HA	45:WA:85:GLN:HE21	1.79	0.47
45:WC:387:VAL:HA	45:WC:390:ARG:HG2	1.96	0.47
46:WD:252:LYS:O	46:WD:256:ASN:HB2	2.13	0.47
45:WE:27:GLU:HB3	45:WE:361:THR:HG21	1.96	0.47
45:WG:222:PRO:HG2	46:WH:324:LYS:HZ3	1.79	0.47
46:WH:45:GLU:O	46:WH:46:ARG:HD2	2.14	0.47
46:WH:105:HIS:CE1	46:WH:150:LEU:HD12	2.49	0.47
46:WJ:210:ILE:O	46:WJ:214:THR:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WJ:215:LEU:O	46:WJ:215:LEU:HD23	2.13	0.47
45:WK:122:ILE:HG21	45:WK:157:LEU:HD11	1.95	0.47
45:WK:331:SER:O	45:WK:335:ILE:HG12	2.14	0.47
46:WL:73:MET:HE3	46:WL:92:PHE:HB3	1.96	0.47
20:1K:245:TRP:HH2	46:GB:279:GLN:HG2	1.76	0.47
11:1S:150:GLN:NE2	45:WC:162:GLY:HA3	2.29	0.47
15:1X:81:ARG:NH2	46:MF:276:ARG:HB2	2.24	0.47
1:2A:80:LYS:HD3	34:5R:73:PRO:HB2	1.96	0.47
4:2D:75:ASP:CA	46:EJ:362:LYS:HE3	2.43	0.47
31:2I:96:TRP:HA	46:FF:125:GLU:HG3	1.95	0.47
23:2O:394:GLU:OE1	46:VD:362:LYS:HE2	2.14	0.47
34:4R:379:LYS:NZ	34:4R:381:PHE:HE2	2.10	0.47
37:5E:164:LYS:H	37:5E:165:PRO:CD	2.27	0.47
34:7R:318:TYR:CE1	46:CB:273:LEU:HA	2.49	0.47
45:AC:377:MET:SD	45:AC:379:SER:HB3	2.54	0.47
45:AG:63:PRO:HG2	45:AG:86:LEU:HD21	1.95	0.47
45:AI:132:LEU:HG	45:AI:164:LYS:NZ	2.29	0.47
45:AI:265:ILE:HG13	45:AI:380:ASN:HD21	1.78	0.47
46:AL:116:VAL:O	46:AL:120:VAL:HG23	2.13	0.47
45:BA:221:ARG:NE	46:BB:322:SER:OG	2.24	0.47
45:BC:76:ASP:O	45:BC:80:THR:HG23	2.13	0.47
45:BK:326:LYS:HZ3	46:BN:208:TYR:HB3	1.79	0.47
46:BL:293:MET:HE2	46:BL:367:PHE:CD1	2.48	0.47
46:BN:409:THR:O	46:BN:412:GLU:HG3	2.13	0.47
45:CA:184:PRO:O	45:CA:188:ILE:HG12	2.14	0.47
45:CC:167:LEU:HG	45:CC:200:VAL:HB	1.95	0.47
46:CH:203:ASP:O	46:CH:207:LEU:HG	2.14	0.47
46:CL:99:ASN:HD22	46:CL:142:GLY:H	1.63	0.47
45:CM:384:ILE:O	45:CM:387:VAL:HG22	2.14	0.47
45:DA:141:VAL:HG22	45:DA:187:SER:HA	1.96	0.47
45:DA:346:TRP:CD1	46:DB:391:ARG:HG3	2.48	0.47
46:DH:238:CYS:SG	46:DH:239:CYS:N	2.88	0.47
45:DI:335:ILE:HA	45:DI:338:LYS:NZ	2.29	0.47
46:DN:54:ALA:HB3	46:DN:58:ARG:HG2	1.96	0.47
45:EA:188:ILE:HD11	45:EA:391:LEU:HB3	1.96	0.47
45:EA:322:ASP:OD1	45:EA:373:ARG:NH1	2.47	0.47
45:EC:189:LEU:HD11	45:EC:418:PHE:HE1	1.79	0.47
46:EH:375:GLN:HB2	46:EH:379:LYS:HZ2	1.80	0.47
45:EI:10:GLY:O	45:EI:14:ILE:HG12	2.14	0.47
45:EM:164:LYS:HA	45:EM:164:LYS:HD2	1.71	0.47
46:EN:166:THR:HG21	46:EN:192:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FG:88:HIS:ND1	45:FG:89:PRO:HD2	2.29	0.47
46:FJ:21:TRP:CZ3	46:FJ:61:PRO:HB3	2.49	0.47
45:FK:222:PRO:O	46:FL:322:SER:HB2	2.14	0.47
45:FK:256:GLN:NE2	45:FK:257:THR:HG23	2.29	0.47
46:FL:407:GLU:HA	46:FL:410:GLU:OE2	2.14	0.47
45:GG:377:MET:SD	45:GG:379:SER:HB3	2.54	0.47
46:GH:2:ARG:HG3	46:GH:240:LEU:HD11	1.95	0.47
45:GI:210:TYR:OH	46:GJ:323:THR:OG1	2.06	0.47
46:GN:190:HIS:HE1	46:GN:410:GLU:HG2	1.79	0.47
45:HE:430:LYS:O	45:HE:433:GLU:HG3	2.14	0.47
46:HH:226:ASN:HA	46:HH:229:VAL:HG12	1.96	0.47
46:HJ:293:MET:HE2	46:HJ:367:PHE:CD1	2.48	0.47
45:HK:89:PRO:HG2	45:IK:280:LYS:HB2	1.95	0.47
46:HL:3:GLU:H	46:HL:3:GLU:CD	2.16	0.47
45:IA:17:GLY:HA2	45:IA:20:CYS:SG	2.54	0.47
46:IB:316:LEU:HG	46:IB:352:SER:HB2	1.95	0.47
45:IC:272:TYR:HD2	45:IC:275:ILE:HD11	1.79	0.47
46:ID:208:TYR:CE2	46:ID:225:LEU:HD11	2.49	0.47
45:IE:48:ALA:HB1	45:IE:243:ARG:HB2	1.96	0.47
46:IF:284:LEU:HB2	46:IF:362:LYS:NZ	2.29	0.47
45:IG:101:ASN:OD1	46:IH:252:LYS:NZ	2.37	0.47
45:IG:286:LEU:HD11	45:IG:372:MET:HE1	1.95	0.47
45:JA:174:SER:HB2	45:JA:177:VAL:O	2.14	0.47
45:JG:147:SER:HB2	45:JG:190:SER:HB2	1.96	0.47
46:KB:304:ASP:OD2	46:KB:306:ARG:NH2	2.42	0.47
45:KE:210:TYR:CE1	45:KE:227:LEU:HD11	2.48	0.47
45:KG:88:HIS:CE1	45:KG:90:GLU:HG2	2.49	0.47
45:KG:244:PHE:HB2	45:KG:356:ASN:HD21	1.78	0.47
45:KG:256:GLN:HB3	46:KJ:397:TRP:CH2	2.49	0.47
46:KJ:86:ARG:HG3	46:KJ:87:PRO:HD2	1.96	0.47
46:KJ:405:GLU:HA	46:KJ:408:PHE:HD2	1.79	0.47
45:KK:269:LEU:HD23	45:KK:384:ILE:HD11	1.95	0.47
46:KN:12:CYS:O	46:KN:16:ILE:HG12	2.14	0.47
46:KN:316:LEU:HD13	46:KN:352:SER:OG	2.13	0.47
45:LI:72:PRO:HD2	46:LJ:2:ARG:NH2	2.29	0.47
45:LI:319:TYR:HB3	45:LI:323:VAL:HG21	1.96	0.47
45:LK:180:ALA:HB3	45:LK:183:GLU:HG3	1.96	0.47
45:LM:150:GLY:O	45:LM:154:LEU:HG	2.14	0.47
45:MC:1:MET:SD	45:MC:1:MET:N	2.83	0.47
45:ME:262:TYR:OH	46:MH:391:ARG:O	2.32	0.47
45:MG:71:GLU:OE2	46:MH:2:ARG:NH2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MI:265:ILE:HD11	45:MI:435:VAL:HG21	1.96	0.47
46:MJ:134:GLN:HA	46:MJ:165:GLU:O	2.14	0.47
46:MN:66:MET:HA	46:MN:91:VAL:HG23	1.96	0.47
45:NA:180:ALA:HA	46:NB:350:LYS:NZ	2.29	0.47
45:NA:268:MET:HG3	45:NA:380:ASN:HB2	1.96	0.47
46:NF:208:TYR:HE1	46:NF:225:LEU:HD11	1.79	0.47
45:NI:113:GLU:OE1	45:NI:113:GLU:N	2.47	0.47
45:OA:93:ILE:HD11	45:OA:121:ARG:HG3	1.95	0.47
46:OB:22:GLU:OE2	46:OB:81:PHE:HB2	2.13	0.47
45:OC:36:MET:SD	45:OC:37:PRO:HD2	2.55	0.47
45:OC:256:GLN:HG2	46:OF:397:TRP:CH2	2.48	0.47
45:OE:3:GLU:HG3	45:OE:129:CYS:SG	2.54	0.47
45:OE:224:TYR:HD1	47:OF:501:GTP:C6	2.32	0.47
45:OG:141:VAL:HG11	45:OG:172:TYR:HD1	1.78	0.47
45:OG:169:PHE:CE2	45:OG:235:ILE:HD12	2.49	0.47
45:OI:250:VAL:HG13	45:OI:254:GLU:HB2	1.95	0.47
46:OJ:248:SER:HA	46:OJ:252:LYS:HD2	1.96	0.47
46:OJ:404:ASP:N	46:OJ:404:ASP:OD1	2.47	0.47
46:ON:20:PHE:O	46:ON:24:ILE:HD12	2.14	0.47
45:PA:308:ARG:NH1	45:PA:340:THR:O	2.48	0.47
46:PH:294:PHE:CE2	46:PH:333:VAL:HG11	2.47	0.47
45:PI:121:ARG:HA	45:PI:121:ARG:NH1	2.30	0.47
46:PJ:113:ILE:HD13	46:PJ:150:LEU:HD22	1.96	0.47
46:PJ:376:GLU:HA	46:PJ:379:LYS:HG2	1.95	0.47
46:PL:68:LEU:HD13	46:PL:93:GLY:HA3	1.95	0.47
46:PL:205:GLU:HG2	46:PL:206:ALA:N	2.29	0.47
46:PL:406:MET:O	46:PL:410:GLU:HG2	2.13	0.47
46:PN:165:GLU:HG2	46:PN:250:LEU:HD21	1.96	0.47
46:PN:403:MET:HE1	46:PN:407:GLU:HB2	1.95	0.47
46:QB:221:THR:HG23	46:QB:224:ASP:H	1.78	0.47
45:QC:56:THR:HG21	45:QC:60:LYS:HG3	1.96	0.47
45:QE:317:MET:N	45:QE:317:MET:SD	2.87	0.47
46:QF:66:MET:CE	46:QF:116:VAL:HG21	2.44	0.47
46:QF:66:MET:HE2	46:QF:116:VAL:HG21	1.96	0.47
45:QG:141:VAL:HG11	45:QG:172:TYR:CD1	2.49	0.47
45:QI:268:MET:HE2	45:QI:378:ILE:HG22	1.96	0.47
46:QJ:325:GLU:HA	46:QJ:328:GLU:HB3	1.96	0.47
46:QL:86:ARG:HH21	46:QL:87:PRO:CG	2.22	0.47
45:RC:133:GLN:O	45:RC:164:LYS:NZ	2.46	0.47
45:RC:284:GLU:HG2	45:RC:286:LEU:HD22	1.95	0.47
45:RC:401:LYS:HB2	45:RC:401:LYS:HE3	1.71	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RC:417:GLU:HA	45:RC:420:GLU:CD	2.35	0.47
45:RE:252:ILE:HD12	45:RE:252:ILE:H	1.79	0.47
46:RH:11:GLN:HE21	49:RH:501:GDP:PA	2.37	0.47
46:RH:420:SER:O	46:RH:423:GLN:HG3	2.13	0.47
45:RI:211:ASP:O	45:RI:215:ARG:HG3	2.14	0.47
45:RK:112:LYS:HA	45:RK:115:VAL:HG12	1.96	0.47
45:RK:141:VAL:HG12	45:RK:171:ILE:O	2.13	0.47
45:RM:70:LEU:HA	45:RM:95:GLY:H	1.78	0.47
45:RM:174:SER:HB2	45:RM:177:VAL:O	2.14	0.47
45:SA:334:THR:O	45:SA:338:LYS:HG2	2.15	0.47
46:SB:39:ASP:OD1	46:SB:40:SER:N	2.47	0.47
46:SB:137:HIS:CD2	46:SB:148:GLY:HA3	2.49	0.47
46:SF:3:GLU:CD	46:SF:49:VAL:HA	2.35	0.47
45:SG:248:LEU:HB2	45:SG:355:ILE:HG12	1.95	0.47
46:SH:257:LEU:HD21	46:SH:314:SER:HB2	1.96	0.47
45:SK:3:GLU:O	45:SK:133:GLN:N	2.36	0.47
45:SK:9:VAL:HG12	45:SK:68:LEU:HB2	1.95	0.47
46:SL:344:TRP:CZ3	45:SM:401:LYS:HD2	2.49	0.47
45:SM:242:LEU:HD11	45:SM:252:ILE:HG13	1.95	0.47
46:TB:1:MET:SD	46:TB:1:MET:N	2.88	0.47
46:TF:130:LEU:HB3	46:TF:162:ARG:HD2	1.95	0.47
46:TH:97:ALA:C	46:TH:103:LYS:HZ1	2.17	0.47
46:TJ:383:GLU:HA	46:TJ:386:THR:HG22	1.95	0.47
45:TK:276:ILE:HD11	45:TK:280:LYS:HG3	1.95	0.47
46:UB:86:ARG:NE	46:UB:88:ASP:HB3	2.30	0.47
45:UC:207:GLU:HB3	45:UC:304:LYS:HE2	1.95	0.47
45:UG:183:GLU:N	45:UG:184:PRO:HD2	2.29	0.47
46:UH:6:HIS:O	46:UH:63:ALA:HA	2.14	0.47
45:UI:217:LEU:HB3	45:UI:219:ILE:HG12	1.96	0.47
46:UJ:113:ILE:HD13	46:UJ:150:LEU:HD22	1.94	0.47
45:UM:1:MET:O	45:UM:131:GLY:HA3	2.14	0.47
45:UM:346:TRP:HA	46:UN:390:ARG:HH12	1.78	0.47
46:UN:11:GLN:O	46:UN:15:GLN:HG2	2.13	0.47
46:VB:175:VAL:HG22	46:VB:205:GLU:OE2	2.14	0.47
45:VC:174:SER:OG	45:VC:206:ASN:OD1	2.32	0.47
45:VC:352:LYS:HB2	45:VC:352:LYS:HE2	1.67	0.47
46:VD:16:ILE:HD12	46:VD:229:VAL:HG11	1.95	0.47
45:VE:205:ASP:HB3	45:VE:303:ALA:HA	1.95	0.47
45:VE:384:ILE:O	45:VE:387:VAL:HG22	2.14	0.47
46:VF:70:PRO:HA	46:VF:73:MET:SD	2.55	0.47
46:VF:299:MET:HE2	46:VF:305:PRO:HG3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:183:GLU:N	45:VG:184:PRO:HD2	2.28	0.47
45:VG:260:VAL:H	46:VJ:397:TRP:HH2	1.62	0.47
45:VG:331:SER:O	45:VG:335:ILE:HG12	2.14	0.47
45:VI:88:HIS:CE1	45:VI:90:GLU:HG3	2.48	0.47
45:VI:271:SER:OG	45:VI:301:MET:HG2	2.14	0.47
45:VI:329:ASN:HA	45:VI:332:ILE:HG22	1.96	0.47
46:VJ:83:GLN:HE21	46:VJ:84:LEU:HD12	1.79	0.47
46:VJ:216:LYS:O	46:VJ:216:LYS:HG2	2.13	0.47
45:VM:288:VAL:HG11	45:VM:327:ASP:HB3	1.96	0.47
45:WA:51:THR:HG21	45:WA:243:ARG:HB3	1.96	0.47
46:WB:5:VAL:HG11	46:WB:123:GLU:HB3	1.95	0.47
46:WB:150:LEU:HB2	46:WB:154:LYS:HZ3	1.79	0.47
45:WC:133:GLN:NE2	45:WC:242:LEU:HD21	2.27	0.47
45:WC:334:THR:C	45:WC:338:LYS:HZ3	2.17	0.47
45:WE:227:LEU:O	45:WE:231:ILE:HG12	2.14	0.47
46:WH:344:TRP:HE3	46:WH:345:ILE:HG23	1.78	0.47
45:WI:69:ASP:OD2	45:WI:75:ILE:HG12	2.13	0.47
45:WK:252:ILE:HA	45:WK:255:PHE:CD1	2.49	0.47
45:WK:319:TYR:HB3	45:WK:323:VAL:HG11	1.96	0.47
46:WL:285:THR:O	46:WL:289:LEU:HD23	2.13	0.47
46:WN:68:LEU:HD21	46:WN:108:GLU:HG2	1.96	0.47
45:CE:67:PHE:HE2	45:CE:87:PHE:CE2	2.32	0.47
1:0A:136:ASN:ND2	46:AB:245:GLN:HE22	2.10	0.47
4:0D:47:SER:HA	46:DB:53:GLU:HG2	1.96	0.47
4:0D:171:LEU:HD12	45:EC:89:PRO:HB3	1.95	0.47
25:2R:29:LYS:HZ1	45:MG:47:ASP:N	2.12	0.47
16:3B:1:MET:HE3	46:LH:357:PRO:HG2	1.96	0.47
16:3B:62:THR:HA	45:LG:84:ARG:NH2	2.27	0.47
15:3X:45:GLN:NE2	45:MM:282:TYR:CG	2.82	0.47
34:4R:13:PRO:HA	46:LF:227:HIS:ND1	2.29	0.47
35:4S:144:ILE:O	35:4S:148:LYS:HG2	2.14	0.47
36:5D:97:LYS:HD2	36:5D:108:ARG:HG3	1.95	0.47
34:5R:487:GLU:HB3	34:5R:523:PHE:CZ	2.49	0.47
34:5R:574:ARG:HA	34:5R:574:ARG:CZ	2.44	0.47
39:6F:62:GLN:HG2	45:IE:84:ARG:HH22	1.78	0.47
34:7R:174:PHE:CE2	46:AD:80:PRO:HB3	2.48	0.47
34:7R:183:CYS:SG	34:7R:188:LYS:NZ	2.82	0.47
45:AA:288:VAL:HA	45:AA:291:ILE:HG22	1.97	0.47
46:AB:40:SER:H	46:AB:43:GLN:NE2	2.12	0.47
45:AC:222:PRO:HD2	46:AD:324:LYS:CG	2.40	0.47
45:AE:239:THR:HG23	45:AE:243:ARG:NH1	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AF:32:PRO:HA	46:AF:84:LEU:HD11	1.95	0.47
46:AF:200:MET:CE	46:AF:268:ILE:HG21	2.44	0.47
46:AF:341:PHE:HB3	46:AF:348:ASN:HD21	1.79	0.47
46:AH:286:VAL:HG21	46:AH:325:GLU:OE2	2.14	0.47
45:AI:220:GLU:CD	45:AI:220:GLU:H	2.18	0.47
45:AM:101:ASN:OD1	45:AM:143:GLY:HA2	2.14	0.47
45:AM:322:ASP:OD1	45:AM:373:ARG:NH1	2.43	0.47
46:AN:387:ALA:HA	46:AN:390:ARG:HH11	1.79	0.47
46:BD:237:THR:HG22	46:BD:250:LEU:HD21	1.97	0.47
46:BF:389:PHE:HZ	46:BF:405:GLU:HG3	1.79	0.47
46:BH:325:GLU:O	46:BH:329:GLN:HG3	2.14	0.47
45:BK:324:VAL:HG11	46:BN:219:THR:OG1	2.14	0.47
45:CA:268:MET:CE	45:CA:378:ILE:HG13	2.44	0.47
46:CD:201:VAL:HG22	46:CD:266:PHE:O	2.14	0.47
46:CF:251:ARG:NH2	45:CG:105:ARG:HH21	2.12	0.47
45:CI:356:ASN:OD1	45:CI:357:TYR:N	2.47	0.47
46:CL:398:TYR:O	46:CL:403:MET:HB2	2.14	0.47
46:CL:409:THR:O	46:CL:412:GLU:HG3	2.13	0.47
46:DB:167:PHE:HE2	46:DB:200:MET:HG3	1.79	0.47
45:DE:21:TRP:CZ2	45:DE:65:ALA:HB2	2.49	0.47
46:DF:324:LYS:NZ	45:DG:210:TYR:CG	2.81	0.47
46:DJ:65:LEU:HD12	46:DJ:90:PHE:CE1	2.50	0.47
46:DJ:101:TRP:HB2	46:DJ:184:ASN:HB3	1.96	0.47
45:DK:102:ASN:ND2	45:DK:407:TRP:O	2.47	0.47
46:DL:169:VAL:HG12	46:DL:202:ILE:HB	1.95	0.47
45:DM:223:THR:HG23	45:DM:225:THR:H	1.78	0.47
46:EB:325:GLU:OE1	45:EC:221:ARG:HA	2.14	0.47
46:ED:139:LEU:HD22	46:ED:170:VAL:HG12	1.95	0.47
45:EE:259:LEU:HD21	45:EE:316:SER:HB2	1.97	0.47
45:EG:280:LYS:HA	45:EG:283:HIS:HD2	1.79	0.47
45:EI:102:ASN:ND2	45:EI:105:ARG:HG3	2.29	0.47
46:EL:133:PHE:HB2	46:EL:164:MET:HE2	1.96	0.47
46:EL:222:TYR:CD1	49:EL:501:GDP:C6	3.02	0.47
45:FA:326:LYS:HD3	46:FD:208:TYR:CE1	2.48	0.47
46:FJ:58:ARG:HH12	46:GJ:280:GLN:NE2	2.12	0.47
46:FJ:150:LEU:HD21	46:FJ:154:LYS:HZ2	1.79	0.47
46:FL:7:ILE:HD12	46:FL:64:ILE:HB	1.96	0.47
46:FL:289:LEU:HD13	46:FL:365:VAL:HG23	1.96	0.47
46:GD:21:TRP:CZ3	46:GD:61:PRO:HB3	2.50	0.47
45:GE:53:PHE:O	45:GE:64:ARG:NE	2.45	0.47
45:GE:107:HIS:ND1	45:GE:107:HIS:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HB:38:GLY:HA3	46:HB:43:GLN:NE2	2.29	0.47
46:HD:210:ILE:O	46:HD:214:THR:OG1	2.29	0.47
46:HJ:18:ALA:O	46:HJ:22:GLU:HG3	2.14	0.47
45:HM:398:MET:HE3	46:HN:346:PRO:HD2	1.96	0.47
46:HN:97:ALA:HB3	46:HN:143:THR:HB	1.97	0.47
45:II:326:LYS:HZ2	46:IL:212:PHE:HB2	1.79	0.47
46:IJ:210:ILE:HD11	46:IJ:298:ASN:HA	1.95	0.47
45:JA:258:ASN:OD1	46:JD:179:VAL:HG22	2.13	0.47
45:JI:96:LYS:HE2	45:JI:96:LYS:HA	1.95	0.47
46:JN:245:GLN:OE1	46:JN:246:LEU:HG	2.15	0.47
46:KB:374:ILE:O	46:KB:377:MET:HG3	2.15	0.47
45:KC:11:GLN:HG2	45:KC:74:VAL:HG11	1.95	0.47
45:KI:346:TRP:CD1	46:KL:391:ARG:HG3	2.48	0.47
45:KK:262:TYR:HD2	45:KK:265:ILE:HD11	1.79	0.47
46:KL:206:ALA:O	46:KL:210:ILE:HG12	2.14	0.47
46:KL:386:THR:O	46:KL:390:ARG:HG3	2.14	0.47
46:LB:91:VAL:HG21	46:LB:116:VAL:HB	1.96	0.47
45:LC:221:ARG:HH12	46:LD:322:SER:H	1.62	0.47
45:LC:324:VAL:HG23	45:LC:327:ASP:H	1.79	0.47
46:LD:11:GLN:O	46:LD:15:GLN:HG2	2.13	0.47
46:LD:159:TYR:HB3	46:LD:162:ARG:HG3	1.96	0.47
46:LJ:36:TYR:CZ	46:LJ:44:LEU:HD21	2.49	0.47
46:LJ:186:THR:HG23	46:LJ:187:LEU:HD12	1.96	0.47
45:LK:11:GLN:NE2	45:LK:15:GLN:HE21	2.12	0.47
45:LK:31:GLN:HG2	45:LK:35:GLN:O	2.15	0.47
46:LL:203:ASP:OD2	46:LL:302:ALA:N	2.36	0.47
45:LM:209:ILE:HD11	45:LM:230:LEU:HB2	1.96	0.47
45:MC:56:THR:HG23	45:MC:58:ALA:H	1.79	0.47
46:MD:201:VAL:HG23	46:MD:301:CYS:SG	2.53	0.47
45:MI:288:VAL:HG11	45:MI:327:ASP:HB3	1.95	0.47
45:MK:260:VAL:HB	46:MN:397:TRP:CH2	2.49	0.47
46:ML:178:THR:HB	46:ML:181:GLU:HG3	1.96	0.47
46:MN:68:LEU:HD23	46:MN:143:THR:OG1	2.14	0.47
46:NB:152:ILE:HG22	46:NB:195:ASN:HB3	1.95	0.47
46:NB:285:THR:OG1	46:NB:288:GLU:OE1	2.24	0.47
45:NG:12:GLY:HA2	45:NG:15:GLN:NE2	2.30	0.47
45:NG:113:GLU:N	45:NG:113:GLU:OE1	2.44	0.47
45:NI:332:ILE:HD12	45:NI:351:PHE:CD2	2.49	0.47
45:NK:9:VAL:HG13	45:NK:139:ASN:HB3	1.97	0.47
46:NL:117:LEU:O	46:NL:121:ARG:HG3	2.14	0.47
45:NM:229:ARG:HH12	45:NM:367:ASP:H	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NN:148:GLY:O	46:NN:152:ILE:HG12	2.14	0.47
46:OB:54:ALA:HA	46:PB:283:ALA:HB2	1.94	0.47
45:OE:152:LEU:O	45:OE:155:GLU:HG3	2.14	0.47
46:OL:213:ARG:HD3	46:OL:297:LYS:HZ1	1.79	0.47
45:OM:183:GLU:N	45:OM:184:PRO:HD2	2.28	0.47
45:OM:297:GLU:HB2	45:OM:300:ASN:ND2	2.29	0.47
46:ON:238:CYS:SG	46:ON:241:ARG:NH2	2.87	0.47
45:PA:328:VAL:O	45:PA:332:ILE:HG12	2.14	0.47
45:PC:352:LYS:NZ	46:PF:178:THR:HA	2.29	0.47
46:PF:201:VAL:HG23	46:PF:301:CYS:SG	2.53	0.47
45:PI:87:PHE:HB3	45:PI:92:LEU:HD21	1.95	0.47
46:PJ:139:LEU:HD22	46:PJ:188:SER:OG	2.14	0.47
46:QD:42:LEU:HD13	46:QD:356:ILE:HD11	1.95	0.47
45:QE:288:VAL:HG11	45:QE:323:VAL:HG23	1.96	0.47
46:QF:116:VAL:HA	46:QF:119:VAL:HG22	1.96	0.47
46:QH:106:TYR:HE2	46:QH:403:MET:SD	2.37	0.47
46:QH:346:PRO:HG2	45:QI:394:LYS:NZ	2.29	0.47
46:QJ:156:ARG:NH1	46:QJ:159:TYR:O	2.47	0.47
46:RB:32:PRO:HG3	46:RB:81:PHE:CE2	2.49	0.47
45:RG:265:ILE:O	45:RG:265:ILE:HG13	2.14	0.47
46:RH:249:ASP:OD1	46:RH:252:LYS:N	2.39	0.47
46:RJ:9:GLY:HA2	46:RJ:66:MET:O	2.14	0.47
45:RM:121:ARG:HA	45:RM:121:ARG:NH1	2.29	0.47
45:SG:20:CYS:O	45:SG:24:PHE:HD1	1.96	0.47
45:SG:21:TRP:CH2	45:SG:63:PRO:HB3	2.49	0.47
45:SK:164:LYS:NZ	45:SK:165:SER:OG	2.48	0.47
45:SM:324:VAL:HG12	45:SM:326:LYS:HG3	1.95	0.47
46:SN:86:ARG:NE	46:SN:87:PRO:HD2	2.28	0.47
46:TB:27:GLU:OE2	46:TB:241:ARG:NH2	2.47	0.47
45:TI:184:PRO:O	45:TI:188:ILE:HG12	2.15	0.47
45:TI:362:VAL:HG22	45:TI:370:LYS:HD2	1.94	0.47
46:TL:116:VAL:O	46:TL:119:VAL:HG12	2.14	0.47
46:TN:86:ARG:NH2	46:UN:278:SER:OG	2.45	0.47
45:UA:109:THR:HG22	45:UA:110:ILE:HG23	1.96	0.47
46:UB:116:VAL:O	46:UB:120:VAL:HG22	2.14	0.47
46:UF:3:GLU:HA	46:UF:49:VAL:HA	1.97	0.47
46:UF:154:LYS:O	46:UF:157:GLU:HG2	2.14	0.47
46:UF:342:VAL:HG13	46:UF:345:ILE:HG22	1.96	0.47
46:UH:180:VAL:HG12	46:UH:180:VAL:O	2.14	0.47
46:UL:5:VAL:HA	46:UL:62:ARG:HD3	1.97	0.47
46:UN:105:HIS:CE1	46:UN:150:LEU:HD12	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:88:HIS:O	45:VA:91:GLN:HG2	2.14	0.47
45:VC:328:VAL:O	45:VC:332:ILE:HG12	2.14	0.47
46:VD:253:LEU:O	46:VD:257:LEU:HB2	2.14	0.47
46:VF:389:PHE:CZ	46:VF:405:GLU:HG3	2.47	0.47
45:VG:89:PRO:HD3	45:WG:280:LYS:HZ3	1.78	0.47
45:VG:163:LYS:HD3	45:VG:163:LYS:N	2.29	0.47
45:VG:221:ARG:HH12	46:VH:325:GLU:H	1.62	0.47
46:VH:417:ASP:O	46:VH:421:GLU:HG2	2.14	0.47
45:VK:22:GLU:HG3	45:VK:83:TYR:HE1	1.78	0.47
46:VL:404:ASP:OD1	46:VL:406:MET:HG3	2.14	0.47
46:VN:101:TRP:CE3	46:VN:187:LEU:HD13	2.48	0.47
46:VN:152:ILE:HD12	46:VN:164:MET:HE3	1.95	0.47
46:VN:187:LEU:HD11	46:VN:408:PHE:HE1	1.80	0.47
45:WA:235:ILE:O	45:WA:238:LEU:HG	2.14	0.47
46:WB:310:TYR:CD1	46:WB:371:SER:HB2	2.49	0.47
46:WD:8:GLN:HE21	46:WD:65:LEU:HD22	1.80	0.47
46:WD:114:ASP:OD1	46:WD:115:SER:N	2.47	0.47
45:WE:215:ARG:NH1	45:WE:299:ALA:HB1	2.27	0.47
45:WI:21:TRP:CH2	45:WI:63:PRO:HB3	2.49	0.47
45:WI:22:GLU:OE2	45:WI:83:TYR:HE2	1.96	0.47
46:WJ:6:HIS:HD1	46:WJ:21:TRP:HE1	1.62	0.47
45:WK:250:VAL:HG13	45:WK:254:GLU:HB2	1.96	0.47
45:WK:319:TYR:CE2	45:WK:328:VAL:HG22	2.48	0.47
45:WM:141:VAL:HG12	45:WM:171:ILE:O	2.13	0.47
45:DC:141:VAL:HG11	45:DC:172:TYR:CD1	2.49	0.47
45:DC:223:THR:HG23	45:DC:225:THR:H	1.79	0.47
45:DC:310:GLY:HA3	45:DC:383:ALA:HB2	1.96	0.47
6:0F:86:ARG:HH21	45:EE:82:THR:HB	1.79	0.47
18:1I:89:THR:HG21	46:JD:320:ARG:NH2	2.28	0.47
28:2F:79:CYS:HA	46:HF:332:ASN:ND2	2.27	0.47
21:2L:525:LEU:HD23	46:BN:362:LYS:HB3	1.95	0.47
12:2T:147:PHE:HZ	46:MJ:107:THR:HA	1.78	0.47
1:3A:71:TYR:HA	45:AM:221:ARG:NH1	2.30	0.47
35:4S:121:ASP:O	35:4S:125:GLU:HG2	2.14	0.47
36:5A:24:GLY:HA3	36:5A:26:LYS:NZ	2.28	0.47
37:5H:95:ASP:O	37:5H:99:ARG:HG2	2.14	0.47
34:5R:110:ASN:OD1	34:5R:111:TYR:HD2	1.97	0.47
34:5R:527:ASP:O	34:5R:531:THR:HG23	2.14	0.47
34:7R:302:LEU:O	46:CB:77:ARG:NH1	2.45	0.47
34:7R:389:ASN:H	46:EB:276:ARG:HH12	1.62	0.47
45:BA:141:VAL:HG12	45:BA:171:ILE:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BA:296:PHE:CE2	45:BA:377:MET:HE3	2.49	0.47
45:BA:352:LYS:HD2	46:BD:177:ASP:O	2.14	0.47
46:BB:226:ASN:HA	46:BB:229:VAL:HG12	1.97	0.47
45:BE:98:ASP:OD2	45:BE:99:ALA:N	2.48	0.47
46:BL:190:HIS:CD2	46:BL:411:ALA:HA	2.49	0.47
45:CC:200:VAL:HG13	45:CC:268:MET:CE	2.45	0.47
46:CD:251:ARG:HH21	45:CE:105:ARG:HD2	1.79	0.47
46:CF:406:MET:O	46:CF:410:GLU:HG2	2.15	0.47
45:CG:109:THR:HG22	45:CG:110:ILE:HG23	1.96	0.47
46:CH:248:SER:HA	46:CH:252:LYS:HE2	1.96	0.47
45:CI:128:ASN:CG	45:DI:285:GLN:HE22	2.18	0.47
46:CJ:65:LEU:HD22	46:CJ:90:PHE:CE1	2.49	0.47
45:CK:17:GLY:HA2	45:CK:20:CYS:SG	2.55	0.47
45:CK:180:ALA:HB3	45:CK:183:GLU:HG3	1.96	0.47
46:DB:47:ILE:HD12	46:DB:59:TYR:CE1	2.49	0.47
46:DB:105:HIS:CE1	46:DB:150:LEU:HD12	2.48	0.47
46:DB:318:ARG:HH11	46:DB:358:PRO:HG3	1.79	0.47
45:DI:188:ILE:HG23	45:DI:425:LEU:HD11	1.97	0.47
45:DI:265:ILE:HG22	45:DI:380:ASN:HD21	1.78	0.47
46:DL:20:PHE:O	46:DL:24:ILE:HG12	2.14	0.47
45:EA:101:ASN:HA	45:EA:144:GLY:H	1.80	0.47
45:EC:265:ILE:HG12	45:EC:432:TYR:CE1	2.49	0.47
45:EI:348:PRO:HD2	46:EJ:388:MET:CE	2.44	0.47
46:EJ:55:THR:HG23	46:FJ:283:ALA:HA	1.96	0.47
46:EJ:132:GLY:HA3	46:EJ:163:ILE:HG22	1.96	0.47
45:EM:3:GLU:O	45:EM:133:GLN:N	2.30	0.47
46:EN:372:THR:HA	46:EN:422:TYR:HE2	1.80	0.47
45:FA:155:GLU:HG2	45:FA:197:HIS:NE2	2.30	0.47
46:FH:11:GLN:NE2	49:FH:501:GDP:O2A	2.48	0.47
46:FH:117:LEU:HD21	46:FH:121:ARG:HH22	1.79	0.47
46:FJ:105:HIS:CD2	46:FJ:150:LEU:HB2	2.50	0.47
45:FK:79:ARG:O	45:FK:84:ARG:HG2	2.15	0.47
45:FK:340:THR:HG23	45:FK:341:ILE:HG13	1.96	0.47
46:FL:117:LEU:HA	46:FL:120:VAL:HG22	1.96	0.47
46:GD:345:ILE:HG23	46:GD:348:ASN:HB3	1.96	0.47
46:GF:52:ASN:OD1	46:GF:53:GLU:N	2.47	0.47
45:GM:184:PRO:O	45:GM:188:ILE:HG12	2.14	0.47
45:GM:223:THR:HG23	45:GM:225:THR:H	1.79	0.47
46:HB:271:ALA:CB	46:HB:293:MET:HE3	2.42	0.47
46:HF:30:ILE:HG13	46:HF:51:TYR:HE1	1.79	0.47
46:HF:273:LEU:O	46:HF:292:GLN:NE2	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HG:183:GLU:N	45:HG:184:PRO:HD2	2.29	0.47
46:HH:16:ILE:HD13	46:HH:226:ASN:OD1	2.14	0.47
46:HL:190:HIS:CD2	46:HL:411:ALA:HA	2.49	0.47
46:HN:117:LEU:HA	46:HN:120:VAL:HG12	1.96	0.47
45:IA:67:PHE:HB2	45:IA:92:LEU:HD13	1.95	0.47
45:IC:326:LYS:HD3	46:IF:208:TYR:CD1	2.50	0.47
45:IE:171:ILE:HG23	45:IE:204:LEU:O	2.15	0.47
46:IF:116:VAL:O	46:IF:120:VAL:HG23	2.15	0.47
45:IG:88:HIS:HB3	45:IG:91:GLN:HG2	1.97	0.47
45:II:75:ILE:HD12	45:II:75:ILE:H	1.79	0.47
45:IK:328:VAL:O	45:IK:332:ILE:HG12	2.14	0.47
46:IL:11:GLN:NE2	49:IL:501:GDP:O3B	2.46	0.47
45:IM:89:PRO:HD3	46:JN:281:TYR:HE2	1.78	0.47
46:IN:204:ASN:OD1	49:IN:501:GDP:O2'	2.30	0.47
46:JF:325:GLU:O	46:JF:329:GLN:HG2	2.13	0.47
45:JI:377:MET:SD	45:JI:379:SER:HB3	2.54	0.47
46:JJ:1:MET:HG3	46:JJ:48:ASN:ND2	2.29	0.47
45:KA:103:PHE:HB2	45:KA:186:ASN:HB3	1.96	0.47
45:KA:251:ASP:OD1	45:KA:252:ILE:N	2.45	0.47
45:KG:349:THR:OG1	46:KJ:176:SER:OG	2.07	0.47
45:KG:394:LYS:HZ3	46:KH:346:PRO:HG2	1.79	0.47
45:KG:395:PHE:HZ	45:KG:418:PHE:HB3	1.79	0.47
46:KH:73:MET:HA	46:KH:76:VAL:HG12	1.96	0.47
46:KJ:238:CYS:SG	46:KJ:239:CYS:N	2.87	0.47
46:KN:181:GLU:HB3	46:KN:182:PRO:HD3	1.96	0.47
46:LB:304:ASP:OD1	46:LB:306:ARG:HG2	2.14	0.47
46:LD:156:ARG:HG2	46:LD:164:MET:HE2	1.96	0.47
46:LD:285:THR:HB	46:LD:287:PRO:HD2	1.97	0.47
45:LE:419:SER:O	45:LE:423:GLU:HG2	2.14	0.47
46:LH:113:ILE:HD11	46:LH:151:LEU:HB2	1.97	0.47
46:LJ:186:THR:HA	46:LJ:415:MET:HE1	1.96	0.47
45:LK:349:THR:OG1	46:LN:176:SER:OG	2.31	0.47
46:LL:66:MET:SD	46:LL:147:MET:HG2	2.55	0.47
45:MA:141:VAL:HG12	45:MA:171:ILE:O	2.14	0.47
45:MA:288:VAL:HA	45:MA:291:ILE:HG12	1.95	0.47
45:MC:395:PHE:HD2	45:MC:422:ARG:HD3	1.78	0.47
46:NJ:113:ILE:HG12	46:NJ:117:LEU:CD2	2.44	0.47
46:OB:286:VAL:HG12	46:OB:329:GLN:HE22	1.79	0.47
46:OD:16:ILE:HD12	46:OD:229:VAL:HG11	1.95	0.47
46:OD:109:GLY:O	46:OD:113:ILE:HG23	2.14	0.47
45:OE:139:ASN:O	45:OE:170:THR:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OH:371:SER:O	46:OH:422:TYR:OH	2.18	0.47
45:OI:179:THR:HG21	46:OJ:246:LEU:HD23	1.96	0.47
46:PB:318:ARG:HH11	46:PB:358:PRO:HG3	1.80	0.47
45:PC:56:THR:HG23	45:PC:58:ALA:H	1.79	0.47
45:PC:346:TRP:CD1	46:PF:391:ARG:HG3	2.50	0.47
46:PD:12:CYS:O	46:PD:16:ILE:HG12	2.14	0.47
46:PD:391:ARG:HA	46:PD:391:ARG:HD2	1.73	0.47
45:PE:80:THR:O	45:PE:84:ARG:NH2	2.47	0.47
45:PE:340:THR:HG23	45:PE:341:ILE:HG13	1.95	0.47
45:PK:226:ASN:ND2	45:PK:367:ASP:OD1	2.48	0.47
46:PL:322:SER:HG	46:PL:325:GLU:CD	2.16	0.47
45:QA:101:ASN:HA	45:QA:144:GLY:H	1.79	0.47
45:QA:319:TYR:CD2	45:QA:328:VAL:HG22	2.49	0.47
45:QE:334:THR:HA	45:QE:337:THR:HG22	1.96	0.47
46:QF:287:PRO:CA	46:QF:329:GLN:HE22	2.24	0.47
46:QF:317:PHE:CD1	46:QF:365:VAL:HG22	2.49	0.47
45:QG:51:THR:HG21	45:QG:243:ARG:HB3	1.96	0.47
45:QG:279:GLU:OE1	45:QG:280:LYS:HG3	2.13	0.47
45:QI:318:MET:HB2	45:QI:376:CYS:SG	2.55	0.47
45:QK:14:ILE:HG13	45:QK:67:PHE:CD2	2.50	0.47
45:RC:200:VAL:HG23	45:RC:268:MET:HE1	1.95	0.47
46:RD:139:LEU:HD13	46:RD:168:SER:HB3	1.96	0.47
46:RD:237:THR:HG23	46:RD:241:ARG:HH21	1.80	0.47
46:RD:344:TRP:HB3	46:RD:430:ALA:HB2	1.96	0.47
45:RE:326:LYS:HD3	46:RF:212:PHE:HE2	1.78	0.47
46:RF:8:GLN:HE21	46:RF:65:LEU:HD22	1.78	0.47
46:RF:257:LEU:HD11	46:RF:314:SER:HB2	1.96	0.47
45:RI:392:ASP:OD1	45:RI:422:ARG:NH1	2.48	0.47
46:RJ:318:ARG:HH11	46:RJ:358:PRO:HG3	1.78	0.47
45:RK:389:SER:O	45:RK:393:HIS:ND1	2.47	0.47
46:RL:7:ILE:HB	46:RL:135:ILE:HG22	1.97	0.47
45:RM:75:ILE:HD12	45:RM:75:ILE:H	1.77	0.47
45:RM:208:ALA:O	45:RM:212:ILE:HG12	2.14	0.47
46:SB:219:THR:HG23	46:SB:219:THR:O	2.15	0.47
46:SD:31:ASP:OD2	46:SD:37:HIS:ND1	2.47	0.47
46:SD:204:ASN:HD22	46:SD:204:ASN:N	2.13	0.47
45:SE:430:LYS:O	45:SE:433:GLU:HG3	2.14	0.47
45:SI:288:VAL:HA	45:SI:291:ILE:HG12	1.96	0.47
46:SJ:268:ILE:HG22	46:SJ:368:VAL:HG22	1.96	0.47
46:SL:322:SER:OG	45:SM:221:ARG:HG3	2.14	0.47
45:TA:88:HIS:ND1	45:TA:89:PRO:HD2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TB:154:LYS:HA	46:TB:157:GLU:OE1	2.15	0.47
46:TD:86:ARG:HE	46:TD:87:PRO:HD2	1.79	0.47
46:TD:288:GLU:O	46:TD:291:GLN:HG3	2.13	0.47
45:TE:74:VAL:HA	45:TE:77:GLU:CD	2.34	0.47
46:TJ:325:GLU:HA	46:TJ:328:GLU:HG2	1.96	0.47
46:TL:36:TYR:CZ	46:TL:44:LEU:HD11	2.49	0.47
46:TN:5:VAL:HG12	46:TN:62:ARG:HD3	1.95	0.47
45:UA:184:PRO:O	45:UA:188:ILE:HG12	2.14	0.47
45:UC:141:VAL:HG22	45:UC:187:SER:HA	1.97	0.47
45:UC:167:LEU:HD22	45:UC:200:VAL:HB	1.96	0.47
45:UE:245:ASP:OD1	45:UE:245:ASP:N	2.46	0.47
46:UF:294:PHE:CD2	46:UF:333:VAL:HG11	2.50	0.47
46:UF:372:THR:HA	46:UF:422:TYR:CE2	2.44	0.47
45:UK:268:MET:HG3	45:UK:380:ASN:HB2	1.96	0.47
46:UL:154:LYS:O	46:UL:157:GLU:HG2	2.13	0.47
46:UL:251:ARG:O	46:UL:255:VAL:HG23	2.14	0.47
46:UL:327:ASP:OD1	46:UL:328:GLU:N	2.48	0.47
45:UM:352:LYS:HA	46:UN:177:ASP:O	2.13	0.47
45:VC:123:ARG:HH11	45:VC:123:ARG:HA	1.79	0.47
46:VD:77:ARG:NH1	46:VD:82:GLY:O	2.47	0.47
45:VG:201:ALA:HB3	45:VG:267:PHE:CD1	2.49	0.47
45:VI:156:ARG:HG3	45:VI:156:ARG:HH11	1.78	0.47
45:VI:326:LYS:HD2	45:VI:326:LYS:N	2.29	0.47
46:VL:226:ASN:ND2	49:VL:501:GDP:HN1	2.08	0.47
46:VN:201:VAL:HG13	46:VN:301:CYS:SG	2.53	0.47
45:WC:28:HIS:CE1	45:WC:243:ARG:HD2	2.49	0.47
45:WC:41:THR:HG22	45:WC:42:ILE:N	2.22	0.47
45:WC:324:VAL:CG1	45:WC:326:LYS:HE2	2.38	0.47
45:WE:17:GLY:HA2	45:WE:20:CYS:SG	2.54	0.47
46:WF:309:ARG:NH2	46:WF:426:GLN:O	2.31	0.47
46:WF:390:ARG:HA	46:WF:390:ARG:NH1	2.29	0.47
45:WG:39:ASP:OD1	45:WG:40:LYS:N	2.47	0.47
46:WH:16:ILE:HD13	46:WH:226:ASN:OD1	2.15	0.47
46:WH:396:HIS:HA	46:WH:399:THR:HG22	1.96	0.47
45:WK:68:LEU:HD23	45:WK:149:LEU:HD21	1.96	0.47
45:WK:210:TYR:CG	46:WL:324:LYS:HE3	2.50	0.47
46:WL:314:SER:HB2	46:WL:368:VAL:HG23	1.95	0.47
45:WM:398:MET:HE3	46:WN:346:PRO:HD2	1.96	0.47
45:CE:324:VAL:O	45:CE:328:VAL:HG23	2.15	0.47
45:DC:324:VAL:O	45:DC:328:VAL:HG23	2.13	0.47
4:0D:224:ARG:HB2	34:7R:566:PHE:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1D:172:PRO:HD3	45:FE:279:GLU:OE1	2.13	0.47
8:1H:194:GLN:HE21	45:HG:282:TYR:HB2	1.78	0.47
18:1I:141:PHE:CD2	46:KF:40:SER:HB3	2.48	0.47
10:1Q:85:LYS:HE2	35:4S:245:GLU:OE2	2.14	0.47
28:2F:60:PHE:HZ	46:GF:87:PRO:HB3	1.78	0.47
20:2K:297:SER:O	46:GL:276:ARG:NH2	2.47	0.47
9:2N:10:TYR:CD2	46:IB:53:GLU:HB2	2.49	0.47
23:2O:149:TYR:OH	45:VK:371:VAL:HA	2.14	0.47
25:2R:256:ARG:NH2	45:CG:361:THR:OG1	2.48	0.47
11:2S:46:TRP:HZ3	45:WG:85:GLN:HA	1.77	0.47
12:2T:97:ARG:NH2	45:MG:416:GLY:HA3	2.30	0.47
31:3I:205:ILE:HA	45:FK:116:ASP:OD2	2.14	0.47
36:5D:91:HIS:NE2	36:5D:94:MET:HB3	2.30	0.47
34:5R:120:TYR:CE2	34:5R:162:TRP:HB3	2.49	0.47
40:6G:236:LEU:HD12	40:6G:236:LEU:O	2.13	0.47
40:6G:302:TYR:HA	46:UB:121:ARG:NH1	2.30	0.47
34:6R:78:ILE:HD12	34:6R:78:ILE:H	1.80	0.47
46:AD:294:PHE:CD2	46:AD:333:VAL:HG11	2.50	0.47
46:AD:301:CYS:HB3	46:AD:377:MET:HE1	1.97	0.47
45:AE:231:ILE:O	45:AE:235:ILE:HG12	2.15	0.47
45:AG:132:LEU:HD22	45:AG:164:LYS:HE2	1.97	0.47
46:AH:116:VAL:HA	46:AH:119:VAL:HG12	1.96	0.47
46:AH:238:CYS:HB2	46:AH:318:ARG:CZ	2.44	0.47
45:AK:332:ILE:HD12	45:AK:351:PHE:CE2	2.48	0.47
45:BG:17:GLY:HA2	45:BG:20:CYS:SG	2.54	0.47
45:BG:79:ARG:O	45:BG:84:ARG:HG2	2.14	0.47
46:BH:389:PHE:HZ	46:BH:405:GLU:HG2	1.78	0.47
46:BJ:201:VAL:HG23	46:BJ:301:CYS:SG	2.55	0.47
45:CA:109:THR:HG22	45:CA:110:ILE:HG23	1.95	0.47
46:CF:172:SER:HA	46:CF:377:MET:HE3	1.95	0.47
45:CG:10:GLY:O	45:CG:14:ILE:HG12	2.13	0.47
45:CG:352:LYS:HE2	46:CH:178:THR:HA	1.97	0.47
46:CJ:6:HIS:O	46:CJ:63:ALA:HA	2.15	0.47
45:CM:154:LEU:HD22	45:CM:166:LYS:HD3	1.94	0.47
46:DB:288:GLU:HA	46:DB:291:GLN:HG3	1.96	0.47
45:DE:169:PHE:CD2	45:DE:202:VAL:HB	2.50	0.47
45:DK:244:PHE:HB2	45:DK:356:ASN:HD21	1.80	0.47
45:DM:389:SER:O	45:DM:393:HIS:ND1	2.47	0.47
46:DN:105:HIS:CE1	46:DN:150:LEU:HD12	2.50	0.47
45:EC:229:ARG:O	45:EC:233:GLN:OE1	2.33	0.47
46:ED:210:ILE:O	46:ED:214:THR:OG1	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EG:82:THR:HG23	45:EG:83:TYR:CD2	2.49	0.47
45:EI:67:PHE:HB2	45:EI:92:LEU:HD13	1.97	0.47
45:EI:184:PRO:O	45:EI:188:ILE:HG12	2.14	0.47
46:EJ:293:MET:HG3	46:EJ:365:VAL:HG11	1.96	0.47
46:EL:9:GLY:HA2	46:EL:66:MET:O	2.14	0.47
46:EN:5:VAL:HG12	46:EN:62:ARG:HD3	1.96	0.47
46:EN:64:ILE:HA	46:EN:89:ASN:HB3	1.96	0.47
46:EN:262:ARG:NH1	46:EN:421:GLU:OE1	2.48	0.47
46:FB:86:ARG:NE	46:GB:281:TYR:HB3	2.29	0.47
46:FB:327:ASP:HA	46:FB:330:MET:HG3	1.96	0.47
46:FH:342:VAL:HG13	46:FH:345:ILE:HG22	1.95	0.47
45:FI:109:THR:HG22	45:FI:110:ILE:HG23	1.96	0.47
45:FK:205:ASP:OD2	45:FK:304:LYS:N	2.41	0.47
46:FL:137:HIS:NE2	46:FL:166:THR:OG1	2.47	0.47
46:FN:198:GLU:HG2	46:FN:266:PHE:HE2	1.79	0.47
46:FN:287:PRO:HA	46:FN:290:THR:HG22	1.96	0.47
46:GH:282:ARG:HE	46:GH:283:ALA:H	1.62	0.47
45:GK:102:ASN:ND2	45:GK:407:TRP:O	2.48	0.47
45:GM:188:ILE:HD11	45:GM:391:LEU:HB3	1.97	0.47
45:HC:326:LYS:HZ1	46:HF:208:TYR:HB3	1.80	0.47
46:HF:131:GLN:HG3	46:HF:163:ILE:HD11	1.97	0.47
46:HF:154:LYS:O	46:HF:157:GLU:HG2	2.14	0.47
45:HI:69:ASP:OD1	45:HI:70:LEU:N	2.48	0.47
45:HI:208:ALA:O	45:HI:212:ILE:HG12	2.15	0.47
45:HK:88:HIS:CD2	45:HK:90:GLU:HG2	2.48	0.47
45:HK:167:LEU:HG	45:HK:200:VAL:HB	1.96	0.47
45:IC:101:ASN:HA	45:IC:144:GLY:H	1.80	0.47
46:IF:50:TYR:OH	46:IF:237:THR:HG21	2.15	0.47
45:IM:107:HIS:ND1	45:IM:107:HIS:O	2.48	0.47
45:JG:69:ASP:OD2	45:JG:71:GLU:HG2	2.15	0.47
45:JI:88:HIS:O	45:JI:91:GLN:HG2	2.15	0.47
45:JK:261:PRO:HG2	45:JK:313:MET:HE3	1.95	0.47
46:JL:406:MET:O	46:JL:410:GLU:HG2	2.14	0.47
46:JN:12:CYS:O	46:JN:16:ILE:HG12	2.15	0.47
45:KA:88:HIS:NE2	45:KA:90:GLU:HG2	2.28	0.47
46:KB:174:LYS:HZ3	46:KB:380:ARG:HH12	1.61	0.47
45:KC:53:PHE:HB3	45:KC:61:HIS:HB3	1.96	0.47
45:KM:214:ARG:HD2	45:KM:215:ARG:N	2.29	0.47
45:LI:191:THR:HA	45:LI:194:LEU:HG	1.96	0.47
46:LJ:304:ASP:OD2	46:LJ:306:ARG:HG2	2.14	0.47
46:LN:48:ASN:O	46:LN:62:ARG:NH1	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MD:62:ARG:HH22	46:MD:127:CYS:HB3	1.80	0.47
46:MD:139:LEU:HD13	46:MD:168:SER:HB2	1.95	0.47
46:MF:330:MET:SD	46:MF:349:ILE:HG21	2.54	0.47
45:MG:175:PRO:HB3	45:MG:390:ARG:HE	1.79	0.47
45:MG:326:LYS:NZ	46:MJ:208:TYR:HB3	2.24	0.47
45:NA:208:ALA:O	45:NA:212:ILE:HG12	2.14	0.47
45:NC:128:ASN:HD21	45:OC:285:GLN:NE2	2.12	0.47
46:ND:238:CYS:SG	46:ND:239:CYS:N	2.88	0.47
45:NE:258:ASN:HB3	45:NE:352:LYS:HZ2	1.80	0.47
46:NF:342:VAL:HG13	46:NF:345:ILE:HG22	1.97	0.47
45:NI:37:PRO:HB2	45:NI:39:ASP:OD1	2.14	0.47
46:NJ:326:VAL:O	46:NJ:330:MET:HG3	2.14	0.47
45:NK:112:LYS:HA	45:NK:115:VAL:HG12	1.96	0.47
45:NK:121:ARG:HA	45:NK:121:ARG:HE	1.80	0.47
45:NM:208:ALA:O	45:NM:212:ILE:HG12	2.14	0.47
45:OA:172:TYR:CD2	45:OA:203:MET:HG3	2.49	0.47
46:OB:118:ASP:HA	46:OB:121:ARG:NH2	2.29	0.47
46:OF:58:ARG:HH22	46:OF:84:LEU:HA	1.80	0.47
46:OJ:97:ALA:HB3	46:OJ:143:THR:HB	1.96	0.47
46:OJ:217:LEU:H	46:OJ:217:LEU:HD23	1.80	0.47
46:OL:87:PRO:HA	46:OL:90:PHE:CD2	2.50	0.47
45:OM:67:PHE:HD2	45:OM:92:LEU:HD13	1.80	0.47
45:OM:271:SER:HA	45:OM:302:MET:HG2	1.96	0.47
45:PA:70:LEU:H	45:PA:70:LEU:HD23	1.80	0.47
46:PF:83:GLN:HE21	46:PF:84:LEU:HD22	1.79	0.47
45:PG:180:ALA:HA	46:PH:350:LYS:NZ	2.29	0.47
45:PG:207:GLU:OE2	45:PG:304:LYS:HB2	2.14	0.47
45:PG:265:ILE:HG12	45:PG:432:TYR:CE1	2.48	0.47
46:PH:7:ILE:HG12	46:PH:64:ILE:HD13	1.96	0.47
46:PH:294:PHE:CD2	46:PH:333:VAL:HG21	2.50	0.47
45:PK:135:PHE:CE2	45:PK:157:LEU:HD21	2.50	0.47
45:PM:425:LEU:O	45:PM:429:GLU:OE1	2.32	0.47
45:QA:202:VAL:HA	45:QA:268:MET:O	2.14	0.47
45:QA:272:TYR:OH	45:QA:320:ARG:NH2	2.43	0.47
45:QC:429:GLU:O	45:QC:433:GLU:HG2	2.14	0.47
46:QF:215:LEU:HD21	46:QF:273:LEU:HD12	1.95	0.47
46:QJ:313:ALA:HB1	46:QJ:367:PHE:CE1	2.50	0.47
46:QJ:375:GLN:HG3	46:QJ:419:VAL:HG13	1.95	0.47
45:QK:31:GLN:NE2	45:QK:33:ASP:HB3	2.29	0.47
46:RB:19:LYS:HD3	46:RB:226:ASN:HB2	1.97	0.47
46:RB:362:LYS:O	46:RB:363:MET:HE2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RD:169:VAL:HG12	46:RD:202:ILE:HB	1.95	0.47
45:RE:141:VAL:HG12	45:RE:171:ILE:O	2.13	0.47
45:RE:326:LYS:HE3	46:RF:220:PRO:HG2	1.95	0.47
45:RG:280:LYS:NZ	45:RG:283:HIS:HB2	2.30	0.47
45:RG:407:TRP:O	45:RG:410:GLY:N	2.46	0.47
46:RJ:385:PHE:HE2	46:RJ:412:GLU:OE2	1.96	0.47
46:RL:21:TRP:CE3	46:RL:61:PRO:HB3	2.48	0.47
46:SB:372:THR:HA	46:SB:422:TYR:HE2	1.79	0.47
46:SD:324:LYS:HE3	45:SE:214:ARG:HD3	1.95	0.47
46:SF:289:LEU:HD11	46:SF:363:MET:HB3	1.95	0.47
45:SG:353:VAL:HG12	46:SH:177:ASP:HB2	1.95	0.47
46:SJ:42:LEU:HA	46:SJ:45:GLU:OE2	2.15	0.47
45:SK:102:ASN:HD22	45:SK:105:ARG:HG3	1.79	0.47
45:SM:276:ILE:HG13	45:SM:280:LYS:HE2	1.95	0.47
46:SN:372:THR:HA	46:SN:422:TYR:HE2	1.79	0.47
45:TC:88:HIS:CD2	45:UC:280:LYS:HZ2	2.32	0.47
45:TE:35:GLN:HE22	45:TE:60:LYS:N	2.13	0.47
46:TF:130:LEU:HD21	46:TF:133:PHE:CZ	2.49	0.47
45:TI:183:GLU:N	45:TI:184:PRO:HD2	2.30	0.47
46:TL:58:ARG:HH11	46:UL:280:GLN:HE22	1.63	0.47
46:UF:143:THR:OG1	49:UF:501:GDP:O1B	2.28	0.47
46:UJ:389:PHE:HZ	46:UJ:405:GLU:HG3	1.79	0.47
45:UK:175:PRO:HD2	45:UK:207:GLU:OE2	2.14	0.47
46:UL:117:LEU:HA	46:UL:120:VAL:HG12	1.97	0.47
45:UM:74:VAL:O	45:UM:78:VAL:HG23	2.14	0.47
45:UM:188:ILE:HG13	45:UM:425:LEU:HD11	1.96	0.47
45:UM:387:VAL:O	45:UM:390:ARG:HG2	2.15	0.47
46:VB:18:ALA:O	46:VB:22:GLU:HG3	2.13	0.47
45:VG:75:ILE:HG23	45:VG:92:LEU:HD23	1.97	0.47
45:VG:319:TYR:CD1	45:VG:328:VAL:HG22	2.50	0.47
46:VJ:87:PRO:HA	46:VJ:90:PHE:HD2	1.78	0.47
45:VK:150:GLY:O	45:VK:154:LEU:HD23	2.14	0.47
45:VK:301:MET:CE	45:VK:307:PRO:HD3	2.44	0.47
46:VL:9:GLY:HA2	46:VL:66:MET:O	2.15	0.47
46:VN:289:LEU:HB3	46:VN:365:VAL:HG21	1.96	0.47
46:WB:97:ALA:HA	46:WB:103:LYS:HE3	1.97	0.47
46:WB:238:CYS:SG	46:WB:239:CYS:N	2.88	0.47
46:WD:128:ASP:OD1	46:WD:129:CYS:N	2.47	0.47
46:WJ:194:GLU:HA	46:WJ:262:ARG:HH12	1.80	0.47
23:1O:267:ALA:CB	45:UA:281:ALA:HB3	2.44	0.47
31:2I:114:PHE:CE2	45:FC:123:ARG:HD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:3H:205:GLN:OE1	45:AG:82:THR:N	2.47	0.47
31:3I:260:MET:HB3	46:GJ:332:ASN:HD21	1.79	0.47
10:5Q:101:ARG:HG2	10:5Q:144:TYR:CE1	2.49	0.47
34:5R:337:GLY:HA2	34:5R:371:ILE:HD11	1.95	0.47
34:5R:487:GLU:N	34:5R:487:GLU:OE2	2.45	0.47
10:6Q:115:LYS:HD3	45:AM:264:ARG:HD3	1.95	0.47
45:AA:88:HIS:HA	45:BA:280:LYS:NZ	2.30	0.47
46:AD:113:ILE:HG12	46:AD:117:LEU:HG	1.95	0.47
46:AF:318:ARG:HH11	46:AF:358:PRO:HG3	1.79	0.47
46:AJ:180:VAL:O	46:AJ:180:VAL:HG12	2.14	0.47
45:AK:276:ILE:HD12	45:AK:281:ALA:HA	1.96	0.47
46:AL:238:CYS:SG	46:AL:239:CYS:N	2.87	0.47
45:BA:210:TYR:HE1	45:BA:227:LEU:HD11	1.80	0.47
45:BC:358:GLN:OE1	45:BC:359:PRO:HD2	2.14	0.47
46:BD:294:PHE:CD2	46:BD:333:VAL:HG11	2.49	0.47
45:BG:306:ASP:OD2	45:BG:308:ARG:HG3	2.15	0.47
46:BJ:222:TYR:HA	46:BJ:225:LEU:HD12	1.96	0.47
46:BL:145:SER:HB3	46:BL:188:SER:HB3	1.96	0.47
46:CD:173:PRO:HD2	46:CD:174:LYS:NZ	2.29	0.47
46:CJ:167:PHE:CZ	46:CJ:200:MET:HG3	2.50	0.47
46:DD:201:VAL:HG23	46:DD:301:CYS:SG	2.54	0.47
45:DE:226:ASN:ND2	45:DE:367:ASP:OD2	2.45	0.47
46:DF:21:TRP:CZ2	46:DF:63:ALA:HB2	2.49	0.47
45:DG:68:LEU:HD11	45:DG:118:CYS:SG	2.55	0.47
45:DG:75:ILE:O	45:DG:79:ARG:HG2	2.14	0.47
46:DH:213:ARG:HH21	46:DH:297:LYS:HB3	1.80	0.47
45:DI:137:VAL:HG23	45:DI:168:GLY:HA2	1.95	0.47
45:DI:208:ALA:O	45:DI:212:ILE:HG12	2.14	0.47
46:DJ:375:GLN:HG3	46:DJ:419:VAL:HG13	1.96	0.47
45:DM:371:VAL:HG22	45:DM:373:ARG:H	1.78	0.47
46:EB:139:LEU:HD13	46:EB:168:SER:HB3	1.95	0.47
46:ED:222:TYR:O	46:ED:226:ASN:ND2	2.27	0.47
45:EG:217:LEU:HB3	45:EG:219:ILE:HG12	1.96	0.47
46:EJ:67:ASP:O	46:EJ:92:PHE:HA	2.14	0.47
46:EJ:105:HIS:CE1	46:EJ:150:LEU:HD12	2.50	0.47
45:EM:426:ALA:HB1	45:EM:430:LYS:HZ1	1.79	0.47
46:EN:148:GLY:O	46:EN:152:ILE:HG12	2.13	0.47
45:FA:305:CYS:SG	45:FA:306:ASP:N	2.88	0.47
46:FB:91:VAL:HG21	46:FB:116:VAL:HB	1.95	0.47
45:FC:398:MET:HE2	46:FD:346:PRO:HD2	1.96	0.47
46:FD:222:TYR:O	46:FD:226:ASN:ND2	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FE:171:ILE:HG23	45:FE:204:LEU:O	2.15	0.47
45:FI:242:LEU:HD21	45:FI:252:ILE:HG12	1.97	0.47
46:FN:42:LEU:HA	46:FN:45:GLU:HG3	1.97	0.47
45:GA:27:GLU:HB2	45:GA:361:THR:HG21	1.97	0.47
45:GE:80:THR:O	45:GE:84:ARG:NH2	2.48	0.47
45:GE:321:GLY:HA3	45:GE:372:MET:O	2.14	0.47
45:GE:408:TYR:HB3	45:GE:413:MET:HE2	1.97	0.47
46:GJ:6:HIS:HE1	46:GJ:8:GLN:HB3	1.79	0.47
46:GJ:118:ASP:O	46:GJ:121:ARG:HG2	2.14	0.47
45:GM:60:LYS:NZ	45:GM:85:GLN:O	2.44	0.47
45:HC:88:HIS:HB3	45:HC:91:GLN:HG2	1.97	0.47
46:HF:175:VAL:HG22	46:HF:205:GLU:HB3	1.97	0.47
45:HG:161:TYR:HB3	45:HG:164:LYS:HG2	1.96	0.47
46:ID:178:THR:HB	46:ID:181:GLU:OE1	2.14	0.47
45:IE:121:ARG:NE	45:IE:121:ARG:HA	2.29	0.47
46:IH:221:THR:HG23	46:IH:224:ASP:H	1.79	0.47
46:IH:372:THR:HA	46:IH:422:TYR:HE2	1.78	0.47
45:II:205:ASP:OD1	45:II:303:ALA:HA	2.15	0.47
45:IK:97:GLU:OE2	45:IK:110:ILE:HG13	2.14	0.47
46:IL:65:LEU:HD22	46:IL:90:PHE:CE1	2.50	0.47
46:JB:5:VAL:HG12	46:JB:62:ARG:HD3	1.96	0.47
45:JC:206:ASN:OD1	47:JC:501:GTP:N2	2.40	0.47
46:JD:9:GLY:HA2	46:JD:66:MET:O	2.15	0.47
46:JD:52:ASN:OD1	46:JD:62:ARG:NH2	2.47	0.47
46:JN:313:ALA:HB1	46:JN:367:PHE:CE1	2.49	0.47
45:KA:210:TYR:CE1	45:KA:227:LEU:HD21	2.50	0.47
46:KJ:105:HIS:CE1	46:KJ:150:LEU:HD12	2.50	0.47
46:KJ:156:ARG:HD3	46:KJ:156:ARG:O	2.15	0.47
46:KJ:200:MET:HG2	46:KJ:266:PHE:HB2	1.96	0.47
46:KN:27:GLU:O	46:KN:43:GLN:NE2	2.45	0.47
46:LD:190:HIS:CD2	46:LD:414:ASN:HD22	2.33	0.47
45:LE:430:LYS:HD3	45:LE:433:GLU:OE2	2.15	0.47
46:LH:319:GLY:HA2	46:LH:357:PRO:HD3	1.96	0.47
45:LI:52:PHE:HZ	45:LI:239:THR:HG21	1.79	0.47
46:LL:374:ILE:O	46:LL:377:MET:HG2	2.15	0.47
46:MB:342:VAL:HG13	46:MB:345:ILE:HG22	1.96	0.47
45:MG:82:THR:HG23	45:MG:83:TYR:CD2	2.49	0.47
45:MM:265:ILE:HG22	45:MM:432:TYR:CE1	2.49	0.47
46:MN:276:ARG:NE	46:MN:276:ARG:HA	2.30	0.47
45:NA:31:GLN:HG2	45:NA:37:PRO:HD3	1.96	0.47
45:NC:6:SER:HG	45:NC:21:TRP:HZ2	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:194:GLU:OE2	46:ND:195:ASN:ND2	2.47	0.47
45:NI:253:THR:HA	45:NI:256:GLN:HE22	1.80	0.47
45:NI:343:PHE:HZ	45:NI:351:PHE:CE1	2.32	0.47
46:NJ:86:ARG:HA	46:OJ:281:TYR:HD2	1.79	0.47
45:NM:9:VAL:HG22	45:NM:146:GLY:HA2	1.96	0.47
46:NN:315:ALA:HB1	46:NN:317:PHE:CE2	2.49	0.47
46:OB:300:MET:N	46:OB:300:MET:SD	2.87	0.47
45:OE:8:HIS:HB2	45:OE:67:PHE:HD1	1.79	0.47
46:OF:67:ASP:O	46:OF:92:PHE:HA	2.14	0.47
46:OF:167:PHE:CD1	46:OF:233:MET:HE2	2.50	0.47
45:OI:98:ASP:OD1	45:OI:99:ALA:N	2.48	0.47
46:OJ:97:ALA:HA	46:OJ:103:LYS:HE2	1.96	0.47
45:OK:171:ILE:HG23	45:OK:204:LEU:O	2.14	0.47
46:OL:294:PHE:CE2	46:OL:333:VAL:HG11	2.46	0.47
45:PA:141:VAL:HG12	45:PA:171:ILE:O	2.14	0.47
45:PA:426:ALA:C	45:PA:430:LYS:HZ2	2.18	0.47
45:PE:51:THR:HG21	45:PE:243:ARG:HB3	1.97	0.47
45:PE:88:HIS:HD2	45:PE:89:PRO:HD2	1.79	0.47
46:PH:312:THR:HG22	46:PH:370:ASN:HB3	1.96	0.47
45:PI:229:ARG:HH12	45:PI:363:VAL:HG21	1.80	0.47
46:PJ:389:PHE:CZ	46:PJ:405:GLU:HG2	2.49	0.47
45:PK:90:GLU:HG3	45:PK:121:ARG:HH12	1.79	0.47
46:PL:102:ALA:HA	46:PL:403:MET:HE3	1.97	0.47
46:PN:69:GLU:CD	46:PN:71:GLY:H	2.18	0.47
45:QA:209:ILE:HA	45:QA:212:ILE:HG22	1.95	0.47
45:QC:210:TYR:CE1	45:QC:227:LEU:HD11	2.50	0.47
45:QE:317:MET:HG2	45:QE:353:VAL:HG23	1.97	0.47
45:QE:340:THR:HG23	45:QE:341:ILE:HG13	1.97	0.47
46:QF:273:LEU:H	46:QF:292:GLN:NE2	2.08	0.47
45:QI:20:CYS:HA	45:QI:232:ALA:HB1	1.95	0.47
45:QI:352:LYS:HZ1	46:QJ:179:VAL:HG22	1.79	0.47
46:QJ:350:LYS:HD2	46:QJ:351:SER:H	1.80	0.47
45:QK:133:GLN:HB3	45:QK:252:ILE:CD1	2.45	0.47
45:QK:236:SER:HA	45:QK:239:THR:HG22	1.97	0.47
46:RF:255:VAL:HA	45:RG:407:TRP:CZ2	2.50	0.47
45:RI:98:ASP:OD1	45:RI:99:ALA:N	2.48	0.47
46:RN:268:ILE:HG22	46:RN:368:VAL:HG22	1.95	0.47
45:SA:101:ASN:HA	45:SA:144:GLY:H	1.79	0.47
46:SB:145:SER:HB2	46:SB:188:SER:HB3	1.96	0.47
46:SB:251:ARG:HE	45:SC:105:ARG:HH12	1.61	0.47
46:SF:289:LEU:HB3	46:SF:365:VAL:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SK:75:ILE:HG12	45:SK:79:ARG:HH12	1.79	0.47
45:SK:214:ARG:NH1	45:SK:219:ILE:O	2.47	0.47
45:TA:3:GLU:HG2	45:TA:64:ARG:CZ	2.44	0.47
46:TB:208:TYR:HE1	46:TB:225:LEU:HD11	1.79	0.47
45:TE:60:LYS:HE2	45:UE:283:HIS:CD2	2.50	0.47
46:TJ:341:PHE:HB3	46:TJ:348:ASN:HD21	1.78	0.47
45:UC:194:LEU:HB2	45:UC:198:THR:OG1	2.14	0.47
45:UE:434:GLU:O	45:UE:437:ILE:HG12	2.15	0.47
45:UG:88:HIS:O	45:UG:91:GLN:HG2	2.14	0.47
45:UG:171:ILE:HG23	45:UG:204:LEU:O	2.14	0.47
46:UH:52:ASN:OD1	46:UH:62:ARG:NH2	2.47	0.47
45:UK:75:ILE:HG22	45:UK:79:ARG:HD2	1.97	0.47
45:UM:238:LEU:HD12	45:UM:239:THR:HG23	1.95	0.47
45:VG:221:ARG:HA	45:VG:221:ARG:HD2	1.45	0.47
45:VI:183:GLU:N	45:VI:184:PRO:HD2	2.29	0.47
45:VM:109:THR:HG22	45:VM:110:ILE:HG23	1.96	0.47
46:VN:86:ARG:HB3	46:VN:89:ASN:OD1	2.14	0.47
46:VN:210:ILE:O	46:VN:214:THR:HG22	2.15	0.47
45:WA:3:GLU:O	45:WA:133:GLN:N	2.30	0.47
46:WD:268:ILE:HG22	46:WD:368:VAL:HG22	1.96	0.47
45:WG:356:ASN:OD1	45:WG:357:TYR:N	2.47	0.47
46:WH:31:ASP:OD1	46:WH:35:THR:N	2.37	0.47
45:WM:171:ILE:HD13	47:WM:501:GTP:N2	2.29	0.47
45:DC:27:GLU:OE2	45:DC:243:ARG:NH1	2.48	0.47
2:0B:294:ILE:HG22	46:KL:227:HIS:ND1	2.29	0.47
6:0F:35:TYR:HA	45:DE:79:ARG:HH11	1.80	0.47
7:0G:114:LYS:HZ1	45:JM:367:ASP:HA	1.78	0.47
7:0G:162:ALA:HA	45:KM:244:PHE:HA	1.97	0.47
1:1A:67:PRO:HG3	46:MF:53:GLU:CG	2.44	0.47
4:1D:166:ARG:NH1	45:EG:80:THR:O	2.47	0.47
18:1I:11:TYR:OH	46:ID:47:ILE:HG23	2.14	0.47
19:1J:76:VAL:HG22	45:IC:370:LYS:NZ	2.29	0.47
19:1J:293:ASP:OD2	45:IK:221:ARG:NH2	2.47	0.47
26:1W:189:ARG:NH1	45:LA:45:GLY:H	1.99	0.47
27:2C:223:GLN:HB3	45:KI:219:ILE:HG23	1.97	0.47
20:2K:291:GLN:HE22	46:FL:56:GLY:N	2.12	0.47
25:2R:181:PHE:CE2	46:AJ:80:PRO:HB3	2.49	0.47
1:3A:134:LYS:O	46:AN:320:ARG:NH2	2.42	0.47
27:3C:67:LYS:NZ	45:LA:81:GLY:HA2	2.29	0.47
11:3S:104:THR:HB	46:MN:156:ARG:HH22	1.78	0.47
33:4F:71:TYR:HE1	45:II:31:GLN:HA	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4R:423:ILE:HD12	34:4R:447:PHE:HD2	1.80	0.47
34:4R:525:GLU:CD	34:4R:525:GLU:H	2.17	0.47
35:4S:184:ARG:HA	35:4S:240:MET:CE	2.45	0.47
35:4S:233:ALA:O	35:4S:237:ILE:HG12	2.14	0.47
15:4X:76:GLU:OE1	15:4X:77:LEU:HD22	2.15	0.47
36:5A:45:TYR:CZ	36:5A:56:ILE:HG13	2.49	0.47
36:5C:57:PRO:HG2	46:KJ:390:ARG:CZ	2.44	0.47
37:5F:26:GLY:HA2	45:OC:221:ARG:CZ	2.45	0.47
37:5G:52:GLY:H	37:5G:55:GLU:CD	2.18	0.47
34:5R:457:GLU:HB2	34:5R:470:PHE:HB2	1.97	0.47
34:7R:41:LYS:NZ	34:7R:43:ASN:HB2	2.29	0.47
34:7R:497:GLN:HG3	34:7R:502:ARG:HG2	1.95	0.47
45:AA:401:LYS:HZ1	46:AB:425:TYR:HE1	1.63	0.47
45:AC:147:SER:HB2	45:AC:190:SER:HB3	1.96	0.47
45:AE:226:ASN:ND2	45:AE:367:ASP:OD2	2.40	0.47
45:AE:387:VAL:HG12	45:AE:390:ARG:HH22	1.79	0.47
46:AF:73:MET:HE1	46:AF:92:PHE:HB3	1.97	0.47
46:AF:376:GLU:O	46:AF:380:ARG:HG3	2.14	0.47
46:AF:378:PHE:CD1	46:AF:415:MET:HE3	2.50	0.47
45:AG:175:PRO:HG3	45:AG:390:ARG:CZ	2.44	0.47
46:AH:232:ALA:HB1	46:AH:268:ILE:HD12	1.97	0.47
45:AI:291:ILE:HD13	45:AI:373:ARG:HB3	1.97	0.47
46:AN:200:MET:HE1	46:AN:268:ILE:HG21	1.97	0.47
46:BB:240:LEU:HD21	46:BB:249:ASP:HA	1.97	0.47
46:BB:290:THR:HA	46:BB:293:MET:HG2	1.97	0.47
45:BC:54:SER:HB3	45:BC:64:ARG:HE	1.80	0.47
45:BC:254:GLU:HA	45:BC:257:THR:HG22	1.97	0.47
46:BD:184:ASN:OD1	46:BD:185:ALA:N	2.48	0.47
45:BE:331:SER:O	45:BE:335:ILE:HG12	2.14	0.47
46:BF:48:ASN:O	46:BF:62:ARG:NH1	2.48	0.47
46:BF:211:CYS:SG	46:BF:220:PRO:HG3	2.54	0.47
46:BH:6:HIS:O	46:BH:63:ALA:HA	2.14	0.47
45:BI:189:LEU:HD11	45:BI:418:PHE:HE1	1.80	0.47
45:BI:329:ASN:HD21	46:BL:175:VAL:CG1	2.27	0.47
46:BJ:167:PHE:HE1	46:BJ:233:MET:SD	2.38	0.47
45:BK:265:ILE:O	45:BK:265:ILE:HG13	2.14	0.47
46:BL:282:ARG:NH2	46:BL:292:GLN:OE1	2.47	0.47
45:BM:336:LYS:HZ3	45:BM:343:PHE:HD1	1.63	0.47
46:CB:16:ILE:HD13	46:CB:226:ASN:HD22	1.79	0.47
45:CC:5:ILE:HB	45:CC:135:PHE:HD1	1.80	0.47
45:CC:206:ASN:OD1	45:CC:207:GLU:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CC:212:ILE:HD13	45:CC:215:ARG:HH11	1.80	0.47
46:CF:204:ASN:OD1	49:CF:501:GDP:O2'	2.32	0.47
45:CG:156:ARG:HA	45:CG:156:ARG:NE	2.30	0.47
45:CI:190:SER:O	45:CI:194:LEU:HD23	2.14	0.47
46:CJ:324:LYS:CE	45:CK:222:PRO:HD2	2.39	0.47
45:CK:2:ARG:CZ	45:CK:133:GLN:HE22	2.27	0.47
45:CK:205:ASP:OD2	45:CK:303:ALA:HA	2.14	0.47
45:CK:211:ASP:OD1	45:CK:215:ARG:NE	2.48	0.47
45:CK:242:LEU:HD11	45:CK:252:ILE:HG23	1.97	0.47
46:CL:1:MET:HE1	45:CM:96:LYS:HA	1.96	0.47
45:CM:182:VAL:HG22	45:CM:185:TYR:HB2	1.97	0.47
45:CM:207:GLU:HA	45:CM:210:TYR:HB2	1.96	0.47
45:DA:14:ILE:HD11	45:DA:69:ASP:HB2	1.96	0.47
46:DD:11:GLN:HE22	49:DD:501:GDP:H8	1.62	0.47
45:DE:90:GLU:OE1	45:EE:280:LYS:NZ	2.47	0.47
45:DG:292:THR:HG21	45:DG:331:SER:HB3	1.96	0.47
46:DH:105:HIS:CE1	46:DH:150:LEU:HD12	2.50	0.47
46:DH:344:TRP:HB3	46:DH:430:ALA:HB2	1.96	0.47
46:DJ:8:GLN:OE1	46:DJ:65:LEU:HD22	2.14	0.47
45:DK:21:TRP:CZ2	45:DK:65:ALA:HB2	2.49	0.47
45:DK:166:LYS:N	45:DK:199:ASP:OD2	2.36	0.47
45:DM:265:ILE:HG22	45:DM:432:TYR:HE1	1.79	0.47
46:DN:65:LEU:HD22	46:DN:90:PHE:CE1	2.50	0.47
45:EA:109:THR:HG22	45:EA:110:ILE:HG23	1.96	0.47
45:EA:171:ILE:HG23	45:EA:204:LEU:O	2.15	0.47
45:EA:184:PRO:O	45:EA:188:ILE:HG12	2.15	0.47
46:EB:133:PHE:HD2	46:EB:155:VAL:HG11	1.80	0.47
46:EB:262:ARG:NH1	46:EB:421:GLU:OE1	2.48	0.47
45:EC:91:GLN:HA	45:EC:121:ARG:NE	2.30	0.47
46:ED:280:GLN:OE1	46:ED:280:GLN:N	2.45	0.47
46:EF:8:GLN:O	46:EF:66:MET:HG2	2.15	0.47
46:EF:246:LEU:HD13	46:EF:353:ILE:HD13	1.97	0.47
45:EG:68:LEU:HD21	45:EG:118:CYS:SG	2.55	0.47
45:EG:98:ASP:OD1	45:EG:99:ALA:N	2.48	0.47
45:EG:241:SER:OG	45:EG:250:VAL:O	2.28	0.47
45:EG:254:GLU:OE1	46:EH:99:ASN:ND2	2.48	0.47
46:EH:210:ILE:O	46:EH:214:THR:OG1	2.23	0.47
46:EJ:21:TRP:CZ3	46:EJ:61:PRO:HB3	2.50	0.47
46:EJ:207:LEU:HB3	46:EJ:225:LEU:HD22	1.96	0.47
45:EK:147:SER:HB2	45:EK:190:SER:HB3	1.96	0.47
46:EL:4:ILE:HG13	46:EL:132:GLY:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EM:288:VAL:HG11	45:EM:327:ASP:HB3	1.96	0.47
46:EN:101:TRP:CE3	46:EN:187:LEU:HD13	2.50	0.47
45:FA:210:TYR:HE1	45:FA:227:LEU:HD11	1.79	0.47
45:FA:221:ARG:CZ	46:FB:322:SER:HB3	2.45	0.47
45:FA:248:LEU:HD12	45:FA:355:ILE:HD12	1.95	0.47
45:FA:288:VAL:HA	45:FA:291:ILE:HG12	1.96	0.47
46:FB:186:THR:HG23	46:FB:415:MET:SD	2.55	0.47
45:FC:79:ARG:O	45:FC:84:ARG:HG2	2.14	0.47
46:FF:230:SER:HA	46:FF:233:MET:HE2	1.96	0.47
45:FG:227:LEU:O	45:FG:231:ILE:HG13	2.15	0.47
46:FH:10:GLY:O	46:FH:14:ASN:ND2	2.48	0.47
46:FH:257:LEU:HD21	46:FH:314:SER:HB2	1.96	0.47
45:FI:11:GLN:NE2	46:FJ:245:GLN:O	2.47	0.47
45:FK:171:ILE:HG23	45:FK:204:LEU:O	2.15	0.47
46:FL:238:CYS:SG	46:FL:239:CYS:N	2.88	0.47
46:FN:293:MET:SD	46:FN:365:VAL:HG11	2.54	0.47
45:GA:21:TRP:CZ2	45:GA:65:ALA:HB2	2.50	0.47
46:GB:132:GLY:HA2	46:GB:162:ARG:HB3	1.96	0.47
45:GE:101:ASN:HD22	45:GE:143:GLY:HA2	1.79	0.47
45:GE:306:ASP:HB3	45:GE:309:HIS:CE1	2.50	0.47
45:GG:221:ARG:HH21	46:GH:320:ARG:HH12	1.63	0.47
46:GH:310:TYR:CD1	46:GH:371:SER:HB2	2.49	0.47
45:GI:22:GLU:HG2	45:GI:83:TYR:OH	2.15	0.47
45:GK:425:LEU:O	45:GK:429:GLU:HG2	2.14	0.47
46:GN:202:ILE:HD11	46:GN:268:ILE:HD11	1.96	0.47
46:GN:301:CYS:SG	46:GN:302:ALA:N	2.87	0.47
45:HA:319:TYR:CE1	45:HA:328:VAL:HG22	2.49	0.47
46:HB:235:GLY:O	46:HB:316:LEU:HD23	2.14	0.47
45:HE:133:GLN:HB3	45:HE:252:ILE:HD11	1.97	0.47
46:HF:345:ILE:HG23	46:HF:345:ILE:O	2.15	0.47
45:HI:187:SER:O	45:HI:191:THR:HG23	2.15	0.47
46:HJ:273:LEU:H	46:HJ:292:GLN:NE2	2.10	0.47
45:HK:174:SER:HB2	45:HK:177:VAL:O	2.15	0.47
46:HL:16:ILE:HD13	46:HL:226:ASN:OD1	2.15	0.47
45:IA:387:VAL:HA	45:IA:390:ARG:HG2	1.97	0.47
46:IB:121:ARG:O	46:IB:125:GLU:OE1	2.33	0.47
46:IB:145:SER:HB2	46:IB:188:SER:HB3	1.97	0.47
45:IC:121:ARG:NE	45:IC:121:ARG:HA	2.29	0.47
46:ID:31:ASP:OD1	46:ID:35:THR:N	2.36	0.47
46:ID:73:MET:HG2	46:ID:90:PHE:CD1	2.49	0.47
45:IE:118:CYS:O	45:IE:122:ILE:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IF:334:GLN:NE2	46:IF:348:ASN:OD1	2.40	0.47
45:IG:8:HIS:CD2	45:IG:138:PHE:HD1	2.32	0.47
45:IG:100:ALA:O	46:IH:255:VAL:HG21	2.15	0.47
45:IG:245:ASP:OD2	45:IG:245:ASP:N	2.47	0.47
46:IJ:324:LYS:HB3	46:IJ:328:GLU:OE2	2.15	0.47
45:IK:135:PHE:HE2	45:IK:157:LEU:HD12	1.80	0.47
46:IL:64:ILE:HD13	46:IL:119:VAL:HG12	1.97	0.47
46:IN:181:GLU:HB2	46:IN:182:PRO:HD3	1.96	0.47
46:IN:187:LEU:HD21	46:IN:408:PHE:HE1	1.80	0.47
46:IN:201:VAL:HG22	46:IN:266:PHE:O	2.14	0.47
46:IN:287:PRO:HG3	46:IN:329:GLN:NE2	2.30	0.47
45:JA:17:GLY:HA2	45:JA:20:CYS:SG	2.55	0.47
45:JA:70:LEU:HD13	45:JA:145:THR:OG1	2.15	0.47
45:JA:89:PRO:HD3	45:KA:283:HIS:ND1	2.30	0.47
45:JA:179:THR:O	46:JB:350:LYS:HA	2.14	0.47
45:JA:205:ASP:OD1	45:JA:303:ALA:HA	2.15	0.47
46:JB:325:GLU:HA	46:JB:328:GLU:HG2	1.96	0.47
45:JG:439:THR:HG21	46:JJ:390:ARG:HH12	1.79	0.47
46:JJ:226:ASN:ND2	49:JJ:501:GDP:HN1	2.12	0.47
46:JN:328:GLU:HA	46:JN:331:LEU:HG	1.96	0.47
46:KB:116:VAL:HA	46:KB:119:VAL:HG12	1.97	0.47
45:KC:205:ASP:N	45:KC:205:ASP:OD2	2.46	0.47
45:KG:208:ALA:O	45:KG:212:ILE:HG12	2.13	0.47
45:KG:210:TYR:CE2	45:KG:227:LEU:HD11	2.49	0.47
45:KG:296:PHE:HE2	45:KG:335:ILE:HG21	1.79	0.47
45:KI:318:MET:HB2	45:KI:376:CYS:SG	2.54	0.47
46:KJ:343:GLU:N	46:KJ:343:GLU:OE1	2.47	0.47
46:KL:20:PHE:CD2	46:KL:21:TRP:HD1	2.33	0.47
45:LA:34:GLY:O	45:LA:60:LYS:HA	2.15	0.47
46:LB:372:THR:HA	46:LB:422:TYR:CE2	2.50	0.47
46:LD:207:LEU:HD23	46:LD:225:LEU:HB3	1.96	0.47
46:LF:86:ARG:NE	46:LF:86:ARG:HA	2.30	0.47
45:LI:222:PRO:HD2	46:LJ:324:LYS:HZ1	1.80	0.47
45:LI:298:PRO:HB3	45:LI:307:PRO:HD2	1.97	0.47
46:LJ:164:MET:HB3	46:LJ:197:ASP:H	1.78	0.47
45:LK:265:ILE:HG22	45:LK:380:ASN:HD21	1.79	0.47
45:LK:329:ASN:ND2	46:LN:208:TYR:CE2	2.83	0.47
47:LK:501:GTP:O2A	47:LK:501:GTP:H8	1.97	0.47
46:LL:6:HIS:O	46:LL:63:ALA:HA	2.15	0.47
46:LL:51:TYR:HE1	46:LL:61:PRO:HG3	1.80	0.47
46:LL:317:PHE:HB3	46:LL:321:MET:CE	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LN:31:ASP:OD2	46:LN:33:THR:OG1	2.33	0.47
46:LN:253:LEU:HA	46:LN:350:LYS:HE2	1.95	0.47
45:MA:49:PHE:O	45:MA:53:PHE:N	2.34	0.47
45:MA:71:GLU:HB3	45:MA:98:ASP:HB3	1.96	0.47
45:MC:171:ILE:HG13	45:MC:204:LEU:O	2.14	0.47
46:MD:294:PHE:CD2	46:MD:333:VAL:HG21	2.50	0.47
45:ME:171:ILE:HD11	45:ME:206:ASN:OD1	2.14	0.47
45:ME:223:THR:HG22	45:ME:224:TYR:H	1.79	0.47
45:ME:282:TYR:HE1	45:ME:371:VAL:HG22	1.80	0.47
45:ME:427:ALA:O	45:ME:430:LYS:HB3	2.15	0.47
45:MG:195:LEU:HD21	45:MG:264:ARG:HD2	1.97	0.47
45:MI:214:ARG:HH12	46:MJ:324:LYS:HZ1	1.63	0.47
46:MJ:179:VAL:HG23	46:MJ:180:VAL:HG23	1.95	0.47
45:MM:317:MET:HG2	45:MM:377:MET:HB3	1.96	0.47
45:MM:345:ASP:OD2	45:MM:346:TRP:N	2.48	0.47
46:MN:148:GLY:O	46:MN:152:ILE:HG12	2.13	0.47
45:NC:219:ILE:HG13	45:NC:221:ARG:H	1.78	0.47
45:NC:222:PRO:HD2	46:ND:324:LYS:CE	2.44	0.47
46:NF:248:SER:HA	46:NF:252:LYS:HD2	1.97	0.47
45:NG:231:ILE:O	45:NG:235:ILE:HG12	2.15	0.47
46:NH:378:PHE:HB3	46:NH:415:MET:HE1	1.97	0.47
45:NI:11:GLN:HG3	45:NI:74:VAL:HG11	1.97	0.47
45:NI:186:ASN:OD1	45:NI:187:SER:N	2.48	0.47
46:NJ:86:ARG:HA	46:OJ:281:TYR:CD2	2.50	0.47
46:NJ:200:MET:CE	46:NJ:266:PHE:HB2	2.43	0.47
45:OA:210:TYR:HB3	45:OA:214:ARG:NH2	2.28	0.47
46:OD:204:ASN:HB3	46:OD:208:TYR:CZ	2.50	0.47
46:OD:418:LEU:O	46:OD:422:TYR:HB2	2.15	0.47
45:OE:128:ASN:HD21	45:PE:285:GLN:HE22	1.63	0.47
45:OE:210:TYR:OH	46:OF:323:THR:OG1	2.33	0.47
46:OF:158:GLU:OE1	46:OF:158:GLU:N	2.47	0.47
46:OF:240:LEU:HD21	46:OF:249:ASP:HA	1.97	0.47
46:OH:9:GLY:HA2	46:OH:66:MET:O	2.15	0.47
46:OH:203:ASP:HB3	46:OH:301:CYS:HA	1.96	0.47
45:OI:202:VAL:HG12	45:OI:204:LEU:HG	1.96	0.47
46:OJ:285:THR:HB	46:OJ:287:PRO:HD2	1.96	0.47
45:OK:27:GLU:HG3	45:OK:361:THR:HG21	1.95	0.47
45:OK:372:MET:N	45:OK:372:MET:SD	2.88	0.47
45:OM:177:VAL:HG13	46:ON:327:ASP:HB3	1.96	0.47
46:PB:248:SER:HA	46:PB:252:LYS:HD2	1.95	0.47
45:PC:71:GLU:OE1	46:PD:2:ARG:NH2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PC:200:VAL:HG13	45:PC:268:MET:CE	2.45	0.47
45:PC:263:PRO:HD3	46:PF:396:HIS:NE2	2.30	0.47
45:PE:8:HIS:HB2	45:PE:67:PHE:HD2	1.78	0.47
45:PE:167:LEU:HD13	45:PE:200:VAL:HB	1.95	0.47
46:PF:175:VAL:HG22	46:PF:205:GLU:HB3	1.96	0.47
45:PI:141:VAL:HG22	45:PI:187:SER:HA	1.96	0.47
46:PJ:21:TRP:CZ2	46:PJ:63:ALA:HB2	2.49	0.47
45:PK:254:GLU:HA	45:PK:257:THR:OG1	2.15	0.47
45:PK:320:ARG:HB2	45:PK:358:GLN:O	2.14	0.47
46:PL:156:ARG:NH2	46:PL:160:PRO:O	2.48	0.47
46:PL:203:ASP:OD2	46:PL:377:MET:HE1	2.15	0.47
46:PL:287:PRO:HG3	46:PL:329:GLN:NE2	2.29	0.47
45:PM:183:GLU:N	45:PM:184:PRO:HD2	2.29	0.47
46:PN:21:TRP:HA	46:PN:24:ILE:HG22	1.95	0.47
46:PN:259:PRO:HG3	46:PN:311:LEU:HD23	1.97	0.47
45:QA:55:GLU:OE1	45:QA:61:HIS:NE2	2.47	0.47
45:QA:188:ILE:HD11	45:QA:391:LEU:HB3	1.95	0.47
45:QA:214:ARG:HD2	45:QA:215:ARG:N	2.30	0.47
45:QC:28:HIS:NE2	45:QC:48:ALA:O	2.48	0.47
45:QC:31:GLN:HG2	45:QC:35:GLN:O	2.15	0.47
45:QC:371:VAL:HG22	45:QC:373:ARG:H	1.78	0.47
46:QD:205:GLU:HG2	46:QD:206:ALA:N	2.29	0.47
46:QD:375:GLN:HG3	46:QD:419:VAL:HG13	1.97	0.47
46:QF:375:GLN:HE21	46:QF:379:LYS:HE2	1.80	0.47
45:QG:141:VAL:HG22	45:QG:187:SER:HA	1.95	0.47
45:QG:208:ALA:O	45:QG:212:ILE:HG12	2.15	0.47
46:QH:167:PHE:CZ	46:QH:233:MET:HG3	2.50	0.47
45:QI:76:ASP:O	45:QI:80:THR:HG23	2.15	0.47
45:QI:184:PRO:O	45:QI:188:ILE:HG12	2.15	0.47
46:QJ:22:GLU:HG2	46:QJ:81:PHE:CD1	2.46	0.47
45:QK:28:HIS:NE2	45:QK:48:ALA:O	2.48	0.47
46:QL:48:ASN:O	46:QL:62:ARG:NH1	2.44	0.47
46:QL:65:LEU:HD22	46:QL:90:PHE:CE1	2.49	0.47
46:QN:102:ALA:HB1	46:QN:401:GLU:HB2	1.95	0.47
45:RA:109:THR:HG22	45:RA:110:ILE:HG23	1.95	0.47
46:RB:31:ASP:OD2	46:RB:37:HIS:ND1	2.48	0.47
46:RD:21:TRP:CZ2	46:RD:63:ALA:HB2	2.50	0.47
46:RD:73:MET:HE3	46:RD:92:PHE:HB3	1.97	0.47
45:RE:15:GLN:NE2	47:RE:501:GTP:O6	2.48	0.47
46:RF:259:PRO:HG2	46:RF:311:LEU:HD21	1.96	0.47
46:RF:321:MET:N	46:RF:321:MET:SD	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RF:327:ASP:HA	46:RF:330:MET:HG2	1.96	0.47
45:RG:324:VAL:O	45:RG:328:VAL:HG23	2.15	0.47
46:RH:12:CYS:HA	46:RH:15:GLN:NE2	2.27	0.47
46:RH:272:PRO:HB3	46:RH:282:ARG:HH22	1.79	0.47
46:RH:344:TRP:HB3	46:RH:430:ALA:HB2	1.95	0.47
45:RI:64:ARG:NH1	45:RI:129:CYS:SG	2.88	0.47
45:RI:76:ASP:HA	45:RI:79:ARG:HH12	1.80	0.47
45:RI:265:ILE:HG12	45:RI:432:TYR:CE2	2.50	0.47
46:RJ:83:GLN:CD	46:RJ:83:GLN:H	2.18	0.47
46:RL:249:ASP:OD1	46:RL:252:LYS:N	2.44	0.47
46:RL:350:LYS:HD3	45:RM:180:ALA:HA	1.96	0.47
46:RN:262:ARG:NH1	46:RN:421:GLU:OE1	2.47	0.47
46:SB:130:LEU:HD21	46:SB:133:PHE:CE2	2.50	0.47
45:SC:340:THR:HG23	45:SC:341:ILE:HG12	1.96	0.47
45:SE:166:LYS:N	45:SE:199:ASP:OD2	2.44	0.47
45:SE:229:ARG:NH2	45:SE:362:VAL:HG23	2.29	0.47
46:SF:318:ARG:HD3	46:SF:358:PRO:HD3	1.96	0.47
46:SF:345:ILE:HA	45:SG:398:MET:HE1	1.97	0.47
45:SG:85:GLN:OE1	45:SG:85:GLN:N	2.37	0.47
46:SH:97:ALA:HA	46:SH:103:LYS:HE2	1.97	0.47
46:SH:347:ASN:O	45:SI:181:VAL:HG12	2.14	0.47
45:SI:89:PRO:HD2	45:TI:280:LYS:HZ1	1.80	0.47
45:SI:274:PRO:HG3	45:SI:286:LEU:HD12	1.95	0.47
46:SJ:334:GLN:HA	46:SJ:341:PHE:CE1	2.49	0.47
46:SN:293:MET:CE	46:SN:367:PHE:HB2	2.45	0.47
46:TB:253:LEU:HA	46:TB:350:LYS:HZ3	1.79	0.47
45:TC:10:GLY:O	45:TC:14:ILE:HG12	2.15	0.47
45:TC:98:ASP:OD1	45:TC:99:ALA:N	2.48	0.47
45:TC:141:VAL:HG12	45:TC:171:ILE:O	2.14	0.47
46:TD:213:ARG:HG3	46:TD:214:THR:HG23	1.97	0.47
45:TE:19:ALA:HA	45:TE:22:GLU:OE1	2.15	0.47
46:TF:270:PHE:HD2	46:TF:273:LEU:HD21	1.80	0.47
45:TG:19:ALA:HA	45:TG:22:GLU:OE1	2.15	0.47
45:TI:288:VAL:O	45:TI:292:THR:HG23	2.15	0.47
46:TJ:21:TRP:CZ3	46:TJ:61:PRO:HB3	2.50	0.47
45:TK:72:PRO:HA	45:TK:75:ILE:HD13	1.95	0.47
45:TK:141:VAL:HG12	45:TK:171:ILE:O	2.14	0.47
45:TK:157:LEU:HA	45:TK:160:ASP:HB2	1.95	0.47
46:TL:282:ARG:HE	46:TL:283:ALA:H	1.61	0.47
45:TM:185:TYR:HE2	45:TM:404:PHE:HB2	1.80	0.47
46:TN:73:MET:HE3	46:TN:92:PHE:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UC:175:PRO:HA	45:UC:390:ARG:NE	2.29	0.47
46:UD:16:ILE:HD13	46:UD:226:ASN:OD1	2.15	0.47
45:UG:174:SER:OG	45:UG:207:GLU:HB2	2.15	0.47
46:UH:131:GLN:O	46:UH:163:ILE:HG12	2.14	0.47
45:UK:223:THR:HG23	45:UK:225:THR:H	1.79	0.47
46:UL:86:ARG:HG3	46:UL:88:ASP:H	1.78	0.47
46:UN:285:THR:O	46:UN:288:GLU:HG3	2.14	0.47
45:VA:222:PRO:HD2	46:VB:324:LYS:HZ1	1.78	0.47
45:VA:301:MET:HA	45:VA:301:MET:HE3	1.96	0.47
45:VA:392:ASP:OD2	45:VA:425:LEU:HD22	2.14	0.47
46:VB:156:ARG:HD3	46:VB:164:MET:CE	2.45	0.47
45:VC:147:SER:HB2	45:VC:190:SER:HB3	1.96	0.47
45:VC:390:ARG:O	45:VC:394:LYS:HG3	2.14	0.47
46:VD:117:LEU:HA	46:VD:120:VAL:HG12	1.96	0.47
45:VE:7:ILE:HD13	45:VE:153:LEU:HD21	1.96	0.47
45:VE:103:PHE:H	45:VE:408:TYR:HE2	1.62	0.47
45:VG:326:LYS:HZ3	46:VJ:220:PRO:CD	2.25	0.47
45:VI:210:TYR:HA	45:VI:213:CYS:SG	2.55	0.47
45:VK:5:ILE:HD12	45:VK:135:PHE:HE1	1.78	0.47
46:VL:405:GLU:OE2	46:VL:409:THR:OG1	2.31	0.47
46:VN:257:LEU:HD11	46:VN:314:SER:HB3	1.95	0.47
45:WA:100:ALA:HA	46:WB:252:LYS:CD	2.44	0.47
46:WB:101:TRP:HB3	46:WB:398:TYR:HE1	1.80	0.47
46:WB:139:LEU:HD13	46:WB:168:SER:HB3	1.96	0.47
46:WB:190:HIS:CD2	46:WB:411:ALA:HA	2.50	0.47
45:WC:133:GLN:HE21	45:WC:252:ILE:H	1.62	0.47
45:WE:100:ALA:HA	46:WF:252:LYS:HG2	1.96	0.47
45:WE:174:SER:HB3	45:WE:207:GLU:HG3	1.97	0.47
45:WG:29:GLY:O	45:WG:40:LYS:NZ	2.32	0.47
45:WG:340:THR:HG23	45:WG:341:ILE:HG13	1.97	0.47
45:WI:269:LEU:HD23	45:WI:379:SER:O	2.14	0.47
46:WJ:94:GLN:OE1	46:WJ:94:GLN:N	2.47	0.47
46:WJ:205:GLU:HA	46:WJ:208:TYR:HD2	1.79	0.47
46:WJ:287:PRO:HA	46:WJ:290:THR:HG22	1.96	0.47
45:WK:107:HIS:ND1	45:WK:107:HIS:O	2.48	0.47
45:WK:223:THR:HG23	45:WK:225:THR:H	1.79	0.47
45:WK:257:THR:HA	46:WN:397:TRP:CZ2	2.50	0.47
45:WM:222:PRO:HD2	46:WN:324:LYS:CE	2.43	0.47
46:WN:108:GLU:O	46:WN:111:GLU:HG3	2.14	0.47
17:1F:152:HIS:NE2	46:GL:88:ASP:OD1	2.47	0.47
19:1J:317:VAL:HG11	45:IK:285:GLN:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1V:101:ILE:HD12	45:LI:415:GLU:OE1	2.14	0.47
15:1X:3:ARG:HD3	46:MH:15:GLN:HE21	1.79	0.47
1:2A:91:ASN:HA	46:MJ:37:HIS:HE1	1.79	0.47
4:2D:99:ARG:NH2	45:EK:364:PRO:HA	2.28	0.47
4:2D:224:ARG:HH22	34:5R:492:ILE:HG23	1.78	0.47
11:2S:150:GLN:HE21	45:WG:161:TYR:C	2.13	0.47
34:4R:13:PRO:HB3	46:LF:228:LEU:HD23	1.97	0.47
37:5E:129:ARG:HD3	37:5E:130:PRO:O	2.15	0.47
37:5F:69:LYS:HD3	37:5F:70:GLU:N	2.30	0.47
37:5H:44:ARG:NH1	45:OK:285:GLN:HA	2.28	0.47
34:7R:322:THR:OG1	34:7R:324:LYS:HG2	2.14	0.47
34:7R:432:SER:HA	34:7R:502:ARG:HH21	1.78	0.47
45:AA:98:ASP:OD2	45:AA:99:ALA:N	2.48	0.47
45:AA:384:ILE:O	45:AA:387:VAL:HG22	2.15	0.47
45:AA:439:THR:HG21	46:AD:390:ARG:HD2	1.96	0.47
45:AC:328:VAL:HG11	45:AC:353:VAL:HG11	1.97	0.47
45:AE:152:LEU:O	45:AE:156:ARG:HG2	2.15	0.47
46:AF:22:GLU:HG2	46:AF:81:PHE:CD1	2.50	0.47
46:AF:51:TYR:HE2	46:AF:61:PRO:HG3	1.80	0.47
45:AG:76:ASP:OD2	46:AH:46:ARG:NH2	2.47	0.47
46:AN:47:ILE:HD12	46:AN:47:ILE:H	1.79	0.47
45:BE:22:GLU:HG3	45:BE:83:TYR:OH	2.14	0.47
45:BE:215:ARG:NH2	45:BE:216:ASN:OD1	2.48	0.47
45:BI:227:LEU:O	45:BI:231:ILE:HG12	2.15	0.47
45:BI:287:SER:O	45:BI:290:GLU:HG2	2.14	0.47
46:BJ:132:GLY:HA3	46:BJ:163:ILE:HG22	1.95	0.47
46:BJ:180:VAL:O	46:BJ:180:VAL:HG12	2.15	0.47
46:BJ:273:LEU:H	46:BJ:292:GLN:NE2	2.13	0.47
45:BM:387:VAL:HG12	45:BM:390:ARG:NH1	2.30	0.47
45:CA:352:LYS:HD2	46:CB:178:THR:HA	1.97	0.47
45:CC:11:GLN:HA	45:CC:14:ILE:HD13	1.97	0.47
45:CC:328:VAL:HG11	45:CC:353:VAL:HG21	1.97	0.47
45:CG:3:GLU:HB2	45:CG:129:CYS:SG	2.55	0.47
45:CI:143:GLY:HA3	47:CI:501:GTP:O2B	2.15	0.47
45:CM:287:SER:HB3	45:CM:290:GLU:HG2	1.96	0.47
46:CN:116:VAL:HA	46:CN:119:VAL:HG12	1.96	0.47
46:CN:166:THR:HG21	46:CN:192:LEU:HD11	1.95	0.47
46:CN:372:THR:HA	46:CN:422:TYR:HE2	1.80	0.47
46:DF:274:THR:HG22	46:DF:282:ARG:CZ	2.44	0.47
46:DH:119:VAL:HA	46:DH:122:LYS:HG2	1.96	0.47
46:DL:406:MET:O	46:DL:410:GLU:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EB:52:ASN:OD1	46:EB:53:GLU:N	2.47	0.47
45:EC:338:LYS:NZ	45:EC:340:THR:H	2.13	0.47
45:EG:322:ASP:OD1	45:EG:373:ARG:NH1	2.46	0.47
46:EH:99:ASN:HA	46:EH:142:GLY:H	1.79	0.47
46:EH:228:LEU:HD11	46:EH:273:LEU:HD11	1.97	0.47
46:EH:416:ASN:OD1	46:EH:417:ASP:N	2.48	0.47
45:EK:280:LYS:HA	45:EK:283:HIS:ND1	2.30	0.47
45:EK:329:ASN:HB3	46:EL:175:VAL:HG12	1.97	0.47
46:EL:253:LEU:HD12	46:EL:257:LEU:HD13	1.96	0.47
45:EM:328:VAL:O	45:EM:332:ILE:HG12	2.15	0.47
45:FE:141:VAL:HG12	45:FE:171:ILE:O	2.14	0.47
45:FI:407:TRP:CZ2	46:FJ:258:ILE:HD11	2.47	0.47
46:GB:313:ALA:HB1	46:GB:367:PHE:HE1	1.79	0.47
46:GH:218:THR:HG23	46:GH:219:THR:HG23	1.97	0.47
46:GJ:19:LYS:HD3	46:GJ:19:LYS:HA	1.78	0.47
46:GJ:326:VAL:O	46:GJ:330:MET:HG2	2.15	0.47
46:GN:267:MET:HE1	46:GN:303:ALA:HB3	1.95	0.47
46:HB:3:GLU:HB2	46:HB:62:ARG:NH2	2.29	0.47
45:HE:180:ALA:HA	46:HF:350:LYS:HZ3	1.80	0.47
45:HE:257:THR:HG22	46:HH:397:TRP:CH2	2.49	0.47
45:HG:334:THR:O	45:HG:338:LYS:HG2	2.15	0.47
46:HJ:376:GLU:O	46:HJ:380:ARG:HG2	2.15	0.47
45:HK:88:HIS:CD2	45:HK:90:GLU:H	2.32	0.47
46:HN:372:THR:HA	46:HN:422:TYR:HE2	1.80	0.47
45:IC:74:VAL:HA	45:IC:77:GLU:HG3	1.97	0.47
45:IC:209:ILE:HD11	45:IC:302:MET:HB3	1.96	0.47
45:IG:174:SER:HB2	45:IG:177:VAL:O	2.15	0.47
45:IG:434:GLU:O	45:IG:437:ILE:HG12	2.14	0.47
46:IH:31:ASP:OD1	46:IH:35:THR:N	2.43	0.47
45:II:89:PRO:HD3	46:JJ:281:TYR:CD1	2.48	0.47
46:IJ:294:PHE:HD2	46:IJ:333:VAL:HG21	1.79	0.47
45:IM:270:SER:O	45:IM:302:MET:HG3	2.14	0.47
46:JB:148:GLY:O	46:JB:152:ILE:HG13	2.15	0.47
46:JB:292:GLN:NE2	46:JB:298:ASN:OD1	2.46	0.47
45:JE:241:SER:OG	45:JE:249:ASN:OD1	2.30	0.47
46:JF:86:ARG:NH2	46:KF:281:TYR:O	2.45	0.47
46:JH:222:TYR:O	46:JH:226:ASN:ND2	2.23	0.47
46:JJ:2:ARG:HD2	46:JJ:240:LEU:HG	1.96	0.47
46:JL:256:ASN:O	46:JL:312:THR:HG21	2.14	0.47
45:KC:75:ILE:O	45:KC:79:ARG:HG3	2.15	0.47
46:KD:174:LYS:HB2	46:KD:205:GLU:OE1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:81:GLY:O	45:KE:84:ARG:HG3	2.15	0.47
45:KI:27:GLU:OE2	45:KI:28:HIS:CD2	2.68	0.47
45:KI:183:GLU:N	45:KI:184:PRO:HD2	2.29	0.47
46:KL:286:VAL:HG21	46:KL:325:GLU:HG3	1.95	0.47
46:KL:372:THR:HG21	46:KL:426:GLN:HB2	1.97	0.47
45:KM:178:SER:HB3	46:KN:347:ASN:ND2	2.30	0.47
45:LG:296:PHE:HE2	45:LG:335:ILE:HG21	1.79	0.47
45:LI:426:ALA:O	45:LI:429:GLU:HG3	2.13	0.47
45:MC:282:TYR:OH	45:MC:371:VAL:HA	2.14	0.47
46:MD:101:TRP:HB2	46:MD:184:ASN:HB3	1.96	0.47
45:ME:339:ARG:HD3	45:ME:339:ARG:O	2.15	0.47
46:MF:192:LEU:HD21	46:MF:199:CYS:HB2	1.96	0.47
45:MG:251:ASP:OD1	45:MG:252:ILE:N	2.48	0.47
45:MI:98:ASP:OD1	45:MI:99:ALA:N	2.48	0.47
46:MJ:19:LYS:NZ	46:MJ:227:HIS:HB2	2.30	0.47
46:MJ:104:GLY:O	46:MJ:147:MET:N	2.48	0.47
45:MM:103:PHE:HB2	45:MM:186:ASN:HB3	1.97	0.47
45:NA:205:ASP:OD1	45:NA:303:ALA:HA	2.15	0.47
46:ND:145:SER:HB2	46:ND:188:SER:HB3	1.97	0.47
45:NE:352:LYS:HZ1	46:NH:179:VAL:HG22	1.79	0.47
45:NG:19:ALA:HA	45:NG:22:GLU:HG2	1.97	0.47
45:NG:91:GLN:HB3	45:NG:121:ARG:CZ	2.44	0.47
45:NI:150:GLY:O	45:NI:154:LEU:HG	2.14	0.47
45:NM:392:ASP:OD1	45:NM:422:ARG:NE	2.48	0.47
46:OB:122:LYS:NZ	46:PB:291:GLN:OE1	2.48	0.47
45:OC:254:GLU:OE2	46:OF:98:GLY:HA2	2.15	0.47
45:OE:112:LYS:HA	45:OE:115:VAL:HG22	1.95	0.47
45:OG:88:HIS:HB3	45:OG:91:GLN:OE1	2.15	0.47
45:OG:208:ALA:O	45:OG:212:ILE:HG12	2.14	0.47
46:OH:379:LYS:HE3	46:OH:379:LYS:HB2	1.75	0.47
46:OJ:49:VAL:HG11	46:OJ:241:ARG:HG2	1.97	0.47
46:OJ:66:MET:HA	46:OJ:91:VAL:O	2.14	0.47
45:OK:203:MET:HG3	45:OK:384:ILE:HD11	1.97	0.47
45:OM:224:TYR:HD2	46:ON:323:THR:HG21	1.80	0.47
46:PH:345:ILE:O	46:PH:345:ILE:HG13	2.15	0.47
45:PI:221:ARG:HA	45:PI:221:ARG:NE	2.30	0.47
46:PJ:39:ASP:OD1	46:PJ:40:SER:N	2.48	0.47
46:PJ:268:ILE:HG13	46:PJ:300:MET:HG3	1.96	0.47
45:PM:408:TYR:O	45:PM:413:MET:HG3	2.15	0.47
46:PN:245:GLN:OE1	46:PN:246:LEU:HD12	2.15	0.47
45:QA:314:ALA:HB3	45:QA:380:ASN:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:87:PRO:HA	46:QB:90:PHE:CE1	2.50	0.47
46:QF:6:HIS:O	46:QF:63:ALA:HA	2.14	0.47
46:QF:208:TYR:CE2	46:QF:225:LEU:HD11	2.50	0.47
45:QG:69:ASP:OD1	45:QG:70:LEU:N	2.48	0.47
45:QG:313:MET:HB3	45:QG:380:ASN:O	2.15	0.47
46:QJ:20:PHE:HA	46:QJ:230:SER:HB2	1.97	0.47
45:RA:141:VAL:HG11	45:RA:172:TYR:CD1	2.50	0.47
46:RB:116:VAL:O	46:RB:120:VAL:HG23	2.15	0.47
45:RC:288:VAL:O	45:RC:291:ILE:HG22	2.15	0.47
45:RE:395:PHE:CD1	45:RE:422:ARG:HD3	2.50	0.47
46:RF:54:ALA:HB3	46:RF:58:ARG:HG2	1.96	0.47
46:RF:405:GLU:HA	46:RF:408:PHE:CD2	2.50	0.47
46:RH:2:ARG:HG3	46:RH:240:LEU:HD11	1.97	0.47
45:RI:268:MET:HG2	45:RI:380:ASN:HB2	1.97	0.47
46:SD:99:ASN:HA	46:SD:142:GLY:H	1.79	0.47
46:SH:299:MET:HG3	46:SH:301:CYS:H	1.79	0.47
45:SI:11:GLN:HG3	45:SI:74:VAL:HG11	1.96	0.47
45:SI:133:GLN:O	45:SI:165:SER:OG	2.33	0.47
46:SJ:317:PHE:HD1	46:SJ:365:VAL:HG22	1.80	0.47
45:SK:245:ASP:OD2	45:SK:245:ASP:N	2.42	0.47
46:SN:16:ILE:HD12	46:SN:229:VAL:HG11	1.97	0.47
45:TA:288:VAL:HG11	45:TA:327:ASP:HB3	1.96	0.47
45:TC:118:CYS:O	45:TC:122:ILE:HG12	2.15	0.47
46:TD:202:ILE:HD11	46:TD:207:LEU:HD21	1.95	0.47
45:TE:75:ILE:HD12	45:TE:75:ILE:H	1.79	0.47
45:TI:336:LYS:HD3	45:TI:351:PHE:CE2	2.49	0.47
46:TL:266:PHE:CE1	46:TL:370:ASN:HB2	2.49	0.47
45:TM:335:ILE:O	45:TM:338:LYS:HG2	2.15	0.47
46:UB:372:THR:HA	46:UB:422:TYR:CE2	2.50	0.47
45:UE:356:ASN:OD1	45:UE:357:TYR:N	2.48	0.47
46:UL:325:GLU:OE2	46:UL:325:GLU:N	2.47	0.47
45:UM:240:ALA:HB3	45:UM:320:ARG:NH2	2.30	0.47
46:VB:226:ASN:HD21	49:VB:501:GDP:HN1	1.63	0.47
46:VD:268:ILE:N	46:VD:299:MET:HE1	2.30	0.47
45:VG:68:LEU:HD21	45:VG:149:LEU:HD12	1.97	0.47
46:VJ:178:THR:HG22	46:VJ:180:VAL:H	1.80	0.47
45:VK:280:LYS:HG3	45:VK:283:HIS:HB2	1.97	0.47
45:VK:420:GLU:HA	45:VK:423:GLU:CD	2.34	0.47
46:VN:119:VAL:HA	46:VN:122:LYS:HG2	1.96	0.47
45:WE:337:THR:O	45:WE:339:ARG:NH1	2.47	0.47
45:WE:372:MET:SD	45:WE:373:ARG:HD3	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WF:108:GLU:O	46:WF:111:GLU:HG3	2.15	0.47
45:WK:14:ILE:HD12	45:WK:67:PHE:HB3	1.97	0.47
45:WK:134:GLY:HA2	45:WK:164:LYS:HE3	1.95	0.47
45:WK:207:GLU:HA	45:WK:210:TYR:CD2	2.50	0.47
46:WL:45:GLU:HG3	46:WL:46:ARG:CD	2.44	0.47
45:WM:10:GLY:O	45:WM:14:ILE:HG12	2.13	0.47
45:WM:185:TYR:O	45:WM:189:LEU:HG	2.14	0.47
45:CE:22:GLU:HG3	45:CE:83:TYR:OH	2.15	0.47
45:CE:384:ILE:O	45:CE:387:VAL:HG22	2.15	0.47
9:0N:249:LEU:HD23	46:KN:77:ARG:HH11	1.79	0.47
1:1A:125:LEU:N	46:AF:276:ARG:HH12	2.13	0.47
3:1C:121:LEU:HD11	45:DM:22:GLU:OE1	2.15	0.47
7:1G:103:THR:HG22	46:JB:355:ASP:HB2	1.96	0.47
24:1P:192:ASN:HB3	46:TH:360:GLY:HA2	1.97	0.47
11:1S:96:LEU:HD11	46:MF:190:HIS:CE1	2.44	0.47
21:2L:525:LEU:CD2	46:BN:362:LYS:HB3	2.45	0.47
25:2R:87:LEU:HD12	45:MG:85:GLN:HE22	1.80	0.47
11:2S:104:THR:HG22	46:MJ:156:ARG:NH2	2.29	0.47
12:2T:74:ILE:HD12	45:MG:159:VAL:CG2	2.44	0.47
14:2V:44:SER:HA	45:LE:96:LYS:HD2	1.97	0.47
34:4R:512:THR:O	34:4R:516:MET:HG2	2.14	0.47
35:4S:148:LYS:O	35:4S:152:THR:HG23	2.14	0.47
36:5B:79:LEU:O	36:5B:83:THR:HG23	2.15	0.47
37:5E:54:LYS:NZ	46:OB:224:ASP:HA	2.29	0.47
37:5F:143:GLY:HA2	46:OH:280:GLN:OE1	2.14	0.47
10:5Q:21:PRO:HG2	10:5Q:36:ARG:HD3	1.97	0.47
10:5Q:26:ASP:HB2	10:5Q:63:ALA:HA	1.96	0.47
34:5R:419:GLN:HB3	34:5R:448:CYS:SG	2.54	0.47
35:5S:153:LYS:HA	35:5S:158:MET:CE	2.45	0.47
39:6F:66:ASN:OD1	39:6F:67:SER:N	2.48	0.47
10:6Q:90:GLU:HG2	10:6Q:155:GLN:HB3	1.97	0.47
34:6R:311:LYS:N	34:6R:327:GLU:O	2.41	0.47
34:7R:353:ASP:OD1	34:7R:356:THR:OG1	2.20	0.47
45:AC:121:ARG:HH12	45:AC:124:LYS:HD2	1.80	0.47
45:AE:1:MET:HE2	46:AH:70:PRO:HG2	1.95	0.47
45:AI:317:MET:HB3	45:AI:377:MET:HG2	1.97	0.47
46:AN:345:ILE:HG22	46:AN:348:ASN:HB3	1.97	0.47
45:BA:89:PRO:HD2	45:CA:280:LYS:HE3	1.96	0.47
46:BD:19:LYS:HE2	46:BD:22:GLU:OE2	2.15	0.47
45:BG:393:HIS:O	45:BG:397:LEU:HD23	2.15	0.47
45:BI:288:VAL:HA	45:BI:291:ILE:HG12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:231:ILE:O	45:BK:235:ILE:HG12	2.14	0.47
46:BL:130:LEU:HB3	46:BL:162:ARG:HD2	1.97	0.47
45:BM:217:LEU:O	45:BM:219:ILE:HG23	2.15	0.47
46:BN:42:LEU:HD22	46:BN:356:ILE:HD11	1.97	0.47
46:BN:86:ARG:CZ	46:BN:87:PRO:HD2	2.45	0.47
45:CC:326:LYS:HZ3	46:CD:220:PRO:HD2	1.79	0.47
46:CD:12:CYS:O	46:CD:16:ILE:HG12	2.15	0.47
46:CD:217:LEU:HD12	46:CD:220:PRO:HD3	1.97	0.47
46:CF:177:ASP:O	45:CE:352:LYS:HA	2.15	0.47
46:CH:375:GLN:HG2	46:CH:376:GLU:OE1	2.15	0.47
45:CI:90:GLU:OE2	45:CI:121:ARG:NH2	2.48	0.47
46:DB:134:GLN:NE2	46:DB:165:GLU:OE2	2.48	0.47
46:DB:158:GLU:HG2	46:DB:159:TYR:CD1	2.50	0.47
45:DG:2:ARG:HG3	45:DG:242:LEU:HD21	1.97	0.47
45:DG:89:PRO:HG2	45:EG:280:LYS:NZ	2.30	0.47
45:DG:408:TYR:HA	45:DG:411:GLU:OE2	2.14	0.47
46:DJ:210:ILE:HD13	46:DJ:298:ASN:HA	1.95	0.47
45:DK:207:GLU:HA	45:DK:210:TYR:CD2	2.50	0.47
45:EA:288:VAL:HG11	45:EA:327:ASP:HB3	1.96	0.47
45:EC:141:VAL:HG12	45:EC:171:ILE:O	2.14	0.47
46:ED:324:LYS:HE2	45:EE:210:TYR:HD1	1.80	0.47
45:EE:206:ASN:O	45:EE:210:TYR:HD2	1.98	0.47
46:EF:221:THR:HG23	46:EF:223:GLY:H	1.79	0.47
45:EG:69:ASP:O	45:EG:94:SER:HA	2.15	0.47
45:EG:229:ARG:HH11	45:EG:366:GLY:HA2	1.79	0.47
45:EM:169:PHE:HD1	45:EM:202:VAL:HB	1.80	0.47
45:EM:269:LEU:HD11	45:EM:384:ILE:HG12	1.97	0.47
46:FB:313:ALA:HB1	46:FB:367:PHE:CE1	2.50	0.47
45:FE:183:GLU:N	45:FE:184:PRO:HD2	2.30	0.47
46:FF:310:TYR:CD1	46:FF:371:SER:HB3	2.50	0.47
46:FH:378:PHE:HA	46:FH:381:VAL:HG12	1.97	0.47
45:FI:280:LYS:HA	45:FI:283:HIS:ND1	2.30	0.47
45:FK:394:LYS:NZ	46:FL:346:PRO:HG2	2.30	0.47
46:FL:65:LEU:HD22	46:FL:90:PHE:HE1	1.80	0.47
46:FL:260:PHE:HB2	46:FL:263:LEU:HD12	1.97	0.47
45:GC:322:ASP:OD1	45:GC:373:ARG:NH1	2.48	0.47
45:GE:172:TYR:OH	45:GE:191:THR:HG22	2.15	0.47
45:GE:176:GLN:NE2	45:GE:177:VAL:HG23	2.29	0.47
45:GI:174:SER:HB2	45:GI:177:VAL:O	2.15	0.47
45:GK:387:VAL:HA	45:GK:390:ARG:HG2	1.97	0.47
46:GN:406:MET:O	46:GN:410:GLU:OE1	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HA:54:SER:HB3	45:HA:64:ARG:HE	1.79	0.47
45:HA:68:LEU:HD21	45:HA:118:CYS:SG	2.55	0.47
45:HC:209:ILE:HG23	45:HC:227:LEU:HD22	1.97	0.47
45:HI:17:GLY:HA2	45:HI:20:CYS:SG	2.55	0.47
46:HJ:117:LEU:HA	46:HJ:120:VAL:HG12	1.96	0.47
45:HK:205:ASP:HB2	45:HK:303:ALA:HA	1.96	0.47
46:HL:201:VAL:O	46:HL:202:ILE:HD13	2.13	0.47
46:ID:139:LEU:HD13	46:ID:168:SER:HB3	1.97	0.47
46:ID:409:THR:O	46:ID:412:GLU:HG3	2.15	0.47
46:IJ:145:SER:OG	46:IJ:188:SER:HB3	2.15	0.47
45:IK:434:GLU:O	45:IK:437:ILE:HG12	2.14	0.47
45:JA:329:ASN:HA	45:JA:332:ILE:HG22	1.97	0.47
45:JC:222:PRO:HD2	46:JD:324:LYS:HD3	1.96	0.47
46:JF:150:LEU:O	46:JF:154:LYS:HG2	2.14	0.47
45:JI:67:PHE:HB2	45:JI:92:LEU:HD13	1.96	0.47
46:JJ:201:VAL:HG13	46:JJ:301:CYS:SG	2.54	0.47
45:KA:384:ILE:O	45:KA:387:VAL:HG22	2.14	0.47
45:KE:183:GLU:N	45:KE:184:PRO:HD2	2.29	0.47
45:KE:269:LEU:HG	45:KE:301:MET:CE	2.45	0.47
46:KF:127:CYS:SG	46:KF:130:LEU:HB2	2.55	0.47
46:KH:6:HIS:HE1	46:KH:8:GLN:HB3	1.80	0.47
46:KH:16:ILE:HD13	46:KH:226:ASN:OD1	2.15	0.47
45:KI:331:SER:O	45:KI:335:ILE:HG12	2.15	0.47
45:KK:183:GLU:N	45:KK:184:PRO:HD2	2.30	0.47
45:KM:224:TYR:CD1	47:KM:501:GTP:C6	3.03	0.47
46:KN:375:GLN:HG3	46:KN:379:LYS:HZ2	1.79	0.47
46:LB:279:GLN:OE1	46:LB:279:GLN:N	2.47	0.47
45:LC:260:VAL:HG23	46:LF:397:TRP:HE1	1.79	0.47
46:LD:212:PHE:CE1	46:LD:220:PRO:HG2	2.49	0.47
45:LG:205:ASP:OD2	45:LG:303:ALA:HA	2.15	0.47
45:LK:329:ASN:ND2	46:LN:208:TYR:HE2	2.13	0.47
46:LN:103:LYS:HA	46:LN:107:THR:HG22	1.96	0.47
46:LN:344:TRP:CE3	46:LN:345:ILE:HG23	2.50	0.47
46:MB:137:HIS:HE1	46:MB:166:THR:OG1	1.96	0.47
46:MB:180:VAL:HG12	46:MB:180:VAL:O	2.15	0.47
45:ME:137:VAL:HG12	45:ME:167:LEU:O	2.15	0.47
45:MI:372:MET:N	45:MI:372:MET:SD	2.88	0.47
45:MK:113:GLU:OE1	45:MK:113:GLU:N	2.45	0.47
45:MM:337:THR:O	45:MM:339:ARG:NH1	2.48	0.47
45:NC:177:VAL:HG12	46:ND:331:LEU:HD22	1.97	0.47
46:ND:96:GLY:O	46:ND:103:LYS:NZ	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:180:VAL:HG22	46:ND:394:PHE:HD2	1.79	0.47
46:NH:262:ARG:NH1	46:NH:421:GLU:OE2	2.48	0.47
45:NK:108:TYR:O	45:NK:112:LYS:NZ	2.30	0.47
46:NL:296:ALA:HB1	46:NL:305:PRO:HG2	1.96	0.47
45:NM:167:LEU:HG	45:NM:200:VAL:HB	1.97	0.47
45:NM:319:TYR:HB3	45:NM:323:VAL:HG11	1.95	0.47
45:OA:96:LYS:HD3	45:OA:96:LYS:N	2.29	0.47
45:OA:105:ARG:NH1	46:OB:251:ARG:HH21	2.12	0.47
46:OD:200:MET:CE	46:OD:266:PHE:HB2	2.45	0.47
46:OD:226:ASN:OD1	49:OD:501:GDP:N1	2.44	0.47
46:OD:344:TRP:CE3	46:OD:345:ILE:HG23	2.50	0.47
45:OG:7:ILE:HD11	45:OG:122:ILE:HD12	1.97	0.47
46:OH:109:GLY:HA3	46:OH:147:MET:HE1	1.95	0.47
46:OH:140:GLY:HA2	46:OH:181:GLU:OE1	2.15	0.47
46:OL:406:MET:SD	46:OL:407:GLU:N	2.88	0.47
46:ON:398:TYR:HB3	46:ON:403:MET:HG2	1.97	0.47
45:PA:205:ASP:OD1	45:PA:303:ALA:HA	2.15	0.47
45:PC:241:SER:OG	45:PC:250:VAL:O	2.28	0.47
46:PD:333:VAL:HA	46:PD:336:LYS:HG2	1.97	0.47
45:PE:331:SER:O	45:PE:335:ILE:HG12	2.15	0.47
46:PF:86:ARG:HG3	46:PF:88:ASP:OD2	2.14	0.47
46:PF:406:MET:O	46:PF:410:GLU:HG2	2.14	0.47
45:PG:332:ILE:O	45:PG:336:LYS:HG2	2.15	0.47
45:PK:192:HIS:ND1	45:PK:424:ASP:OD2	2.48	0.47
45:PK:227:LEU:O	45:PK:231:ILE:HG12	2.15	0.47
45:PM:288:VAL:HA	45:PM:291:ILE:HG22	1.96	0.47
45:QA:261:PRO:HG3	46:QB:394:PHE:CE2	2.50	0.47
46:QD:201:VAL:HG13	46:QD:301:CYS:SG	2.55	0.47
45:QE:261:PRO:HA	46:QF:394:PHE:CD1	2.49	0.47
45:QG:236:SER:HA	45:QG:239:THR:HG22	1.97	0.47
46:QH:318:ARG:HH11	46:QH:358:PRO:HG3	1.79	0.47
45:QI:261:PRO:HG3	46:QJ:394:PHE:CE1	2.50	0.47
45:QK:17:GLY:HA2	45:QK:20:CYS:SG	2.54	0.47
45:RA:101:ASN:HA	45:RA:144:GLY:H	1.80	0.47
45:RA:184:PRO:O	45:RA:188:ILE:HG12	2.15	0.47
46:RB:189:VAL:O	46:RB:193:VAL:HG13	2.15	0.47
46:RD:406:MET:SD	46:RD:406:MET:N	2.88	0.47
46:RF:320:ARG:HA	46:RF:320:ARG:HD2	1.65	0.47
45:RG:109:THR:HG22	45:RG:110:ILE:HG23	1.97	0.47
46:RJ:3:GLU:HG3	46:RJ:62:ARG:NH1	2.29	0.47
46:RJ:203:ASP:OD1	46:RJ:205:GLU:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RN:282:ARG:NH2	46:RN:292:GLN:OE1	2.43	0.47
45:SA:188:ILE:HD11	45:SA:391:LEU:HB3	1.96	0.47
45:SA:212:ILE:HD11	45:SA:300:ASN:HA	1.97	0.47
46:SB:298:ASN:O	46:SB:298:ASN:ND2	2.47	0.47
46:SF:117:LEU:HA	46:SF:120:VAL:HG22	1.96	0.47
45:SI:275:ILE:HA	45:SI:368:LEU:HD11	1.97	0.47
45:SK:336:LYS:O	45:SK:339:ARG:NH2	2.47	0.47
45:SM:90:GLU:HG2	45:SM:121:ARG:HH12	1.80	0.47
46:SN:105:HIS:CE1	46:SN:150:LEU:HD12	2.49	0.47
45:TC:184:PRO:O	45:TC:188:ILE:HG12	2.15	0.47
45:TE:74:VAL:HA	45:TE:77:GLU:OE2	2.15	0.47
45:TE:192:HIS:HD2	45:TE:421:ALA:HA	1.80	0.47
46:TF:318:ARG:HB2	46:TF:364:ALA:HB3	1.97	0.47
45:TG:286:LEU:N	45:TG:290:GLU:OE2	2.47	0.47
45:TG:419:SER:O	45:TG:422:ARG:N	2.48	0.47
46:TH:69:GLU:CD	46:TH:71:GLY:H	2.17	0.47
46:TJ:377:MET:O	46:TJ:381:VAL:HG23	2.14	0.47
45:TK:98:ASP:OD2	45:TK:99:ALA:N	2.48	0.47
46:TL:406:MET:O	46:TL:410:GLU:HG3	2.15	0.47
45:UG:227:LEU:O	45:UG:231:ILE:HG12	2.15	0.47
45:UM:118:CYS:O	45:UM:122:ILE:HG12	2.14	0.47
45:UM:251:ASP:HB3	45:UM:254:GLU:HG3	1.96	0.47
45:VA:2:ARG:NH2	46:VD:70:PRO:HD2	2.29	0.47
45:VE:98:ASP:OD1	45:VE:99:ALA:N	2.48	0.47
45:VE:167:LEU:HG	45:VE:200:VAL:HB	1.96	0.47
46:VH:18:ALA:O	46:VH:22:GLU:HG3	2.15	0.47
46:VH:310:TYR:CD1	46:VH:371:SER:HB2	2.49	0.47
45:VK:430:LYS:O	45:VK:433:GLU:HG3	2.14	0.47
45:WA:349:THR:OG1	46:WD:176:SER:OG	2.16	0.47
46:WD:19:LYS:NZ	46:WD:227:HIS:HA	2.30	0.47
45:WE:155:GLU:HA	45:WE:197:HIS:CE1	2.49	0.47
45:WE:259:LEU:HD21	45:WE:316:SER:HB3	1.96	0.47
46:WH:9:GLY:HA2	46:WH:66:MET:O	2.15	0.47
45:WI:107:HIS:ND1	45:WI:107:HIS:O	2.48	0.47
46:WJ:232:ALA:HB1	46:WJ:268:ILE:HD12	1.97	0.47
46:WN:420:SER:O	46:WN:423:GLN:HG3	2.14	0.47
45:CE:88:HIS:HB3	45:CE:91:GLN:CD	2.36	0.47
8:1H:253:LEU:HD13	45:HE:364:PRO:HD3	1.97	0.47
19:1J:138:PHE:HD2	45:IE:282:TYR:HE2	1.62	0.47
12:1T:127:GLU:O	45:AC:339:ARG:NH2	2.47	0.47
31:2I:96:TRP:CH2	46:GF:291:GLN:HG2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:2R:256:ARG:HG3	45:CG:42:ILE:HD12	1.94	0.47
10:4Q:102:ARG:NE	45:AI:430:LYS:HE3	2.30	0.47
34:7R:336:CYS:HA	34:7R:349:ILE:HB	1.97	0.47
45:AC:283:HIS:HD2	45:MC:60:LYS:NZ	2.12	0.47
46:AD:73:MET:CE	46:AD:92:PHE:HB3	2.45	0.47
45:AE:195:LEU:HD23	45:AE:196:GLU:HG3	1.97	0.47
46:AF:9:GLY:HA2	46:AF:66:MET:O	2.15	0.47
46:AJ:372:THR:HA	46:AJ:422:TYR:CE2	2.46	0.47
45:AM:332:ILE:HG22	45:AM:336:LYS:HE2	1.96	0.47
46:BB:268:ILE:HD12	46:BB:368:VAL:HG22	1.97	0.47
46:BB:372:THR:HA	46:BB:422:TYR:CE2	2.48	0.47
45:BC:319:TYR:CD1	45:BC:375:VAL:HG22	2.50	0.47
45:BG:107:HIS:O	45:BG:107:HIS:ND1	2.48	0.47
46:BH:316:LEU:HG	46:BH:352:SER:HB2	1.96	0.47
46:BL:5:VAL:HG12	46:BL:62:ARG:HD2	1.96	0.47
46:BN:238:CYS:HB2	46:BN:318:ARG:NH2	2.30	0.47
45:CA:261:PRO:HA	46:CB:394:PHE:CD1	2.49	0.47
45:CA:269:LEU:HD23	45:CA:379:SER:O	2.15	0.47
46:CB:70:PRO:HA	46:CB:73:MET:HE3	1.96	0.47
46:CB:350:LYS:HZ3	45:CC:181:VAL:H	1.61	0.47
45:CI:71:GLU:HB3	45:CI:98:ASP:OD2	2.15	0.47
46:CJ:86:ARG:CZ	46:CJ:87:PRO:HD2	2.44	0.47
45:CK:328:VAL:O	45:CK:332:ILE:HG12	2.15	0.47
46:CL:164:MET:HB3	46:CL:197:ASP:H	1.80	0.47
45:CM:121:ARG:HE	45:CM:124:LYS:HE2	1.79	0.47
46:CN:105:HIS:CE1	46:CN:150:LEU:HD12	2.50	0.47
46:DD:290:THR:HG21	46:DD:329:GLN:CD	2.35	0.47
45:DE:107:HIS:ND1	45:DE:107:HIS:O	2.48	0.47
46:DF:256:ASN:HB3	46:DF:257:LEU:HD12	1.95	0.47
45:DG:319:TYR:HE1	45:DG:328:VAL:HG13	1.80	0.47
46:DH:248:SER:HA	46:DH:252:LYS:HD2	1.96	0.47
46:DJ:347:ASN:O	45:DK:181:VAL:HG23	2.15	0.47
45:DK:105:ARG:O	45:DK:110:ILE:HG22	2.15	0.47
45:DM:268:MET:HG2	45:DM:378:ILE:HG22	1.97	0.47
46:EB:66:MET:HE1	46:EB:91:VAL:HG22	1.97	0.47
46:EF:91:VAL:HG21	46:EF:116:VAL:HB	1.97	0.47
46:EF:101:TRP:HB2	46:EF:184:ASN:HB3	1.97	0.47
46:EH:254:ALA:O	46:EH:258:ILE:HG12	2.15	0.47
46:EH:293:MET:SD	46:EH:365:VAL:HG11	2.55	0.47
45:EI:101:ASN:HA	45:EI:144:GLY:H	1.79	0.47
46:EL:254:ALA:O	46:EL:258:ILE:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EN:398:TYR:HB3	46:EN:403:MET:SD	2.55	0.47
46:FF:238:CYS:HB2	46:FF:318:ARG:HE	1.80	0.47
46:FH:31:ASP:OD1	46:FH:35:THR:N	2.45	0.47
46:FH:184:ASN:OD1	46:FH:185:ALA:N	2.48	0.47
45:FI:80:THR:O	45:FI:84:ARG:NH2	2.46	0.47
46:FL:119:VAL:O	46:FL:122:LYS:HB3	2.15	0.47
46:GB:316:LEU:HD13	46:GB:352:SER:HB3	1.96	0.47
46:GD:87:PRO:HA	46:GD:90:PHE:HD2	1.80	0.47
46:GF:175:VAL:HG22	46:GF:205:GLU:HG3	1.97	0.47
46:GF:318:ARG:HH11	46:GF:358:PRO:HG3	1.80	0.47
45:GG:3:GLU:OE2	45:GG:129:CYS:HB3	2.14	0.47
45:GK:384:ILE:O	45:GK:387:VAL:HG22	2.15	0.47
45:GM:141:VAL:HG22	45:GM:187:SER:HA	1.97	0.47
45:GM:231:ILE:O	45:GM:235:ILE:HG12	2.15	0.47
46:HD:116:VAL:HA	46:HD:119:VAL:HG12	1.97	0.47
45:HI:224:TYR:HE2	46:HJ:246:LEU:HD11	1.79	0.47
45:IA:352:LYS:HZ1	46:ID:178:THR:HA	1.80	0.47
45:IA:420:GLU:HA	45:IA:423:GLU:CD	2.35	0.47
45:IE:200:VAL:HG13	45:IE:268:MET:HE2	1.95	0.47
46:IF:167:PHE:CE2	46:IF:233:MET:HG2	2.50	0.47
46:IH:65:LEU:HD22	46:IH:90:PHE:CE1	2.50	0.47
45:IK:136:LEU:HD23	45:IK:167:LEU:HB2	1.97	0.47
45:IK:345:ASP:OD1	45:IK:346:TRP:N	2.48	0.47
45:IM:183:GLU:N	45:IM:184:PRO:HD2	2.29	0.47
45:IM:210:TYR:HB3	46:IN:324:LYS:NZ	2.30	0.47
46:IN:6:HIS:HA	46:IN:134:GLN:HE21	1.80	0.47
46:IN:117:LEU:HA	46:IN:120:VAL:HG12	1.97	0.47
45:JA:439:THR:HB	46:JD:391:ARG:HH11	1.80	0.47
46:JB:6:HIS:O	46:JB:63:ALA:HA	2.14	0.47
45:JK:221:ARG:HA	46:JL:324:LYS:NZ	2.30	0.47
45:JM:24:PHE:HA	45:JM:27:GLU:HG3	1.97	0.47
45:KA:68:LEU:HD11	45:KA:118:CYS:SG	2.54	0.47
45:KA:422:ARG:NH1	45:KA:426:ALA:HB2	2.30	0.47
46:KB:77:ARG:HH12	46:KB:83:GLN:HA	1.79	0.47
46:KB:203:ASP:HB3	46:KB:301:CYS:HA	1.97	0.47
46:KD:192:LEU:HD21	46:KD:199:CYS:SG	2.55	0.47
46:KF:12:CYS:SG	46:KF:169:VAL:HG21	2.54	0.47
45:KG:37:PRO:O	45:KG:39:ASP:N	2.43	0.47
45:KG:411:GLU:OE2	45:KG:411:GLU:N	2.47	0.47
46:KN:22:GLU:HG2	46:KN:81:PHE:CD1	2.50	0.47
46:KN:293:MET:HE2	46:KN:367:PHE:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LA:69:ASP:OD1	45:LA:70:LEU:N	2.47	0.47
45:LA:107:HIS:O	45:LA:107:HIS:ND1	2.48	0.47
45:LA:223:THR:HG22	45:LA:224:TYR:N	2.29	0.47
45:LA:270:SER:N	45:LA:301:MET:HE1	2.30	0.47
46:LB:344:TRP:CE3	46:LB:345:ILE:HG23	2.50	0.47
45:LC:51:THR:HG23	45:LC:52:PHE:CD2	2.50	0.47
46:LH:73:MET:SD	46:LH:92:PHE:HB3	2.55	0.47
46:LH:344:TRP:CE3	46:LH:345:ILE:HG23	2.50	0.47
45:LI:395:PHE:HZ	45:LI:418:PHE:HB3	1.79	0.47
46:LJ:183:TYR:CD1	46:LJ:385:PHE:HE1	2.33	0.47
45:LK:221:ARG:HH22	46:LL:320:ARG:HH21	1.63	0.47
46:LL:5:VAL:HG12	46:LL:62:ARG:HD3	1.97	0.47
45:LM:173:PRO:HB3	45:LM:183:GLU:HG3	1.96	0.47
45:MC:259:LEU:HB3	45:MC:268:MET:SD	2.54	0.47
46:MD:5:VAL:HA	46:MD:62:ARG:HG3	1.97	0.47
45:MG:183:GLU:N	45:MG:184:PRO:HD2	2.30	0.47
45:MG:407:TRP:CZ2	46:MH:258:ILE:HD11	2.49	0.47
45:MI:88:HIS:HB3	45:MI:91:GLN:HG2	1.97	0.47
46:MJ:173:PRO:HG2	46:MJ:380:ARG:HE	1.79	0.47
46:ML:257:LEU:HD21	46:ML:314:SER:HB2	1.96	0.47
45:MM:36:MET:O	45:MM:38:SER:N	2.48	0.47
45:MM:174:SER:HB2	45:MM:177:VAL:O	2.14	0.47
46:NB:237:THR:HG23	46:NB:241:ARG:NH1	2.30	0.47
46:NH:52:ASN:OD1	46:NH:62:ARG:NH2	2.48	0.47
45:NM:101:ASN:HA	45:NM:144:GLY:H	1.80	0.47
45:OE:70:LEU:HD13	45:OE:95:GLY:HA3	1.97	0.47
45:OE:128:ASN:ND2	45:PE:285:GLN:HE22	2.13	0.47
46:OF:86:ARG:HB3	46:OF:89:ASN:ND2	2.29	0.47
45:OG:65:ALA:O	45:OG:91:GLN:NE2	2.48	0.47
46:OH:149:THR:OG1	46:OH:191:GLN:HB2	2.14	0.47
46:OL:263:LEU:HD22	46:OL:422:TYR:CD1	2.49	0.47
45:OM:320:ARG:HG3	45:OM:374:ALA:HB3	1.96	0.47
45:PC:329:ASN:O	45:PC:332:ILE:HG22	2.16	0.47
46:PD:20:PHE:O	46:PD:24:ILE:HG12	2.15	0.47
46:PF:45:GLU:CD	46:PF:46:ARG:HG2	2.35	0.47
45:PG:8:HIS:HB2	45:PG:67:PHE:HD2	1.79	0.47
45:PG:171:ILE:HG23	45:PG:204:LEU:O	2.15	0.47
45:PI:227:LEU:O	45:PI:231:ILE:HG12	2.15	0.47
45:PI:259:LEU:HD11	45:PI:316:SER:OG	2.15	0.47
46:PJ:150:LEU:O	46:PJ:154:LYS:HG2	2.14	0.47
45:PK:427:ALA:HA	45:PK:430:LYS:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:318:ARG:HH11	46:QB:358:PRO:HG3	1.79	0.47
45:QE:188:ILE:HG23	45:QE:425:LEU:HD11	1.96	0.47
46:QH:210:ILE:O	46:QH:214:THR:HG22	2.15	0.47
45:QI:352:LYS:NZ	46:QJ:178:THR:HG23	2.30	0.47
46:QJ:275:SER:OG	46:QJ:278:SER:OG	2.28	0.47
46:QJ:417:ASP:O	46:QJ:421:GLU:HG3	2.14	0.47
46:QL:116:VAL:HA	46:QL:119:VAL:HG22	1.96	0.47
45:RC:133:GLN:HB3	45:RC:252:ILE:HD13	1.96	0.47
45:RG:69:ASP:OD1	45:RG:70:LEU:N	2.48	0.47
45:RI:105:ARG:O	45:RI:109:THR:OG1	2.31	0.47
46:RJ:21:TRP:CZ2	46:RJ:63:ALA:HB2	2.49	0.47
46:RL:248:SER:OG	46:RL:252:LYS:HD2	2.15	0.47
46:RL:313:ALA:HB1	46:RL:367:PHE:CE1	2.50	0.47
45:RM:211:ASP:HA	45:RM:214:ARG:CZ	2.45	0.47
46:RN:16:ILE:HD12	46:RN:229:VAL:HG11	1.96	0.47
45:SC:68:LEU:HD13	45:SC:93:ILE:HB	1.97	0.47
46:SD:25:SER:OG	46:SD:51:TYR:OH	2.25	0.47
46:SD:262:ARG:HH12	46:SD:421:GLU:HG3	1.80	0.47
46:SF:16:ILE:HG21	46:SF:136:THR:HG21	1.97	0.47
46:SL:3:GLU:O	46:SL:131:GLN:N	2.34	0.47
46:SL:201:VAL:HG13	46:SL:301:CYS:SG	2.55	0.47
46:SL:213:ARG:HH12	46:SL:297:LYS:HB3	1.79	0.47
46:SL:268:ILE:HG22	46:SL:368:VAL:HA	1.97	0.47
46:TB:45:GLU:OE1	46:TB:46:ARG:HG3	2.15	0.47
45:TC:419:SER:O	45:TC:422:ARG:HB2	2.15	0.47
45:TE:188:ILE:HG21	45:TE:422:ARG:HH12	1.80	0.47
46:TF:391:ARG:HA	46:TF:391:ARG:HD2	1.78	0.47
46:TH:67:ASP:OD1	46:TH:68:LEU:N	2.47	0.47
46:TN:10:GLY:O	46:TN:14:ASN:ND2	2.48	0.47
46:UB:193:VAL:HG22	46:UB:262:ARG:HH21	1.79	0.47
46:UB:317:PHE:CE2	46:UB:326:VAL:HG13	2.49	0.47
46:UF:16:ILE:HD12	46:UF:229:VAL:HG11	1.96	0.47
45:UG:19:ALA:HA	45:UG:22:GLU:OE1	2.15	0.47
45:UK:183:GLU:N	45:UK:184:PRO:HD2	2.30	0.47
46:UL:267:MET:SD	46:UL:301:CYS:HB3	2.55	0.47
45:VG:175:PRO:HD2	45:VG:207:GLU:OE2	2.14	0.47
46:VH:379:LYS:HD3	46:VH:419:VAL:HG11	1.95	0.47
46:VJ:285:THR:O	46:VJ:288:GLU:HG3	2.14	0.47
46:VJ:293:MET:HG2	46:VJ:365:VAL:HG11	1.97	0.47
46:VN:150:LEU:HG	46:VN:154:LYS:HZ1	1.78	0.47
45:WA:54:SER:HB3	45:WA:64:ARG:NE	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WE:134:GLY:HA2	45:WE:164:LYS:HE2	1.97	0.47
46:WH:4:ILE:HG13	46:WH:132:GLY:O	2.15	0.47
46:WH:125:GLU:OE1	46:WH:159:TYR:OH	2.33	0.47
45:WI:322:ASP:OD2	45:WI:373:ARG:NH1	2.47	0.47
46:WJ:150:LEU:O	46:WJ:154:LYS:NZ	2.47	0.47
46:WN:267:MET:HE2	46:WN:299:MET:HB2	1.97	0.47
45:CE:75:ILE:HD12	45:CE:92:LEU:HB3	1.97	0.47
7:0G:163:ARG:HA	45:KM:245:ASP:HB3	1.95	0.46
19:1J:175:HIS:CE1	46:HH:53:GLU:HG2	2.49	0.46
23:1O:242:LEU:HD13	46:UB:276:ARG:O	2.15	0.46
15:1X:18:ILE:HD11	46:MH:81:PHE:CE1	2.50	0.46
1:2A:36:ARG:HH11	46:MJ:42:LEU:HD11	1.79	0.46
4:2D:6:ARG:HH22	46:CJ:44:LEU:C	2.17	0.46
11:3S:111:LYS:NZ	46:MN:158:GLU:HB2	2.30	0.46
13:3U:224:ARG:HH12	45:WK:40:LYS:HG2	1.78	0.46
34:4R:552:LEU:O	34:4R:556:ILE:HD12	2.14	0.46
34:4R:581:THR:O	34:4R:585:ILE:HG12	2.15	0.46
35:4S:158:MET:O	35:4S:162:LEU:HD23	2.15	0.46
15:4X:76:GLU:HG3	34:5R:5:LEU:HD23	1.96	0.46
34:5R:229:ASN:O	34:5R:233:GLU:HG2	2.15	0.46
35:5S:163:LYS:NZ	35:5S:211:ASN:HB2	2.31	0.46
34:7R:152:LYS:HG2	34:7R:160:TYR:CE1	2.50	0.46
34:7R:189:GLU:HA	34:7R:192:VAL:HG12	1.97	0.46
44:8R:125:TYR:CE1	45:PI:279:GLU:HA	2.50	0.46
46:AB:16:ILE:HD13	46:AB:226:ASN:OD1	2.15	0.46
45:AC:256:GLN:CD	45:AC:256:GLN:H	2.19	0.46
46:AD:32:PRO:HA	46:AD:84:LEU:HD11	1.95	0.46
45:AE:68:LEU:HD11	45:AE:118:CYS:SG	2.56	0.46
46:AF:4:ILE:HG13	46:AF:132:GLY:O	2.15	0.46
46:AF:372:THR:HA	46:AF:422:TYR:CE2	2.42	0.46
45:BC:174:SER:HB2	45:BC:177:VAL:O	2.14	0.46
45:BG:141:VAL:HG11	45:BG:172:TYR:CD1	2.50	0.46
45:BI:60:LYS:HZ1	45:CI:282:TYR:C	2.18	0.46
45:BI:372:MET:N	45:BI:372:MET:SD	2.88	0.46
46:BJ:175:VAL:HG22	46:BJ:205:GLU:HB3	1.97	0.46
46:BJ:179:VAL:HG23	46:BJ:180:VAL:HG23	1.97	0.46
45:BK:108:TYR:HA	45:BK:112:LYS:HE3	1.97	0.46
46:BL:11:GLN:O	46:BL:15:GLN:HG2	2.16	0.46
46:BL:238:CYS:SG	46:BL:239:CYS:N	2.88	0.46
46:BL:343:GLU:OE2	46:BL:430:ALA:N	2.43	0.46
45:BM:192:HIS:CD2	45:BM:421:ALA:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CA:224:TYR:HD1	45:CA:227:LEU:HD12	1.80	0.46
46:CD:207:LEU:HD13	46:CD:225:LEU:HB3	1.98	0.46
46:DB:46:ARG:HG2	46:DB:241:ARG:HA	1.97	0.46
46:DD:132:GLY:HA3	46:DD:163:ILE:HG22	1.96	0.46
45:DG:207:GLU:HA	45:DG:210:TYR:CD2	2.50	0.46
45:DI:386:GLU:O	45:DI:390:ARG:HG3	2.15	0.46
46:DJ:258:ILE:HD11	45:DK:407:TRP:CZ2	2.50	0.46
46:DJ:286:VAL:O	46:DJ:329:GLN:NE2	2.48	0.46
46:DJ:344:TRP:CE3	46:DJ:345:ILE:HG12	2.50	0.46
45:DK:5:ILE:HB	45:DK:135:PHE:HD1	1.79	0.46
45:DM:319:TYR:CD2	45:DM:328:VAL:HG22	2.50	0.46
46:DN:133:PHE:HB2	46:DN:164:MET:SD	2.55	0.46
45:EA:140:SER:OG	47:EA:501:GTP:O2B	2.32	0.46
46:ED:11:GLN:HB3	46:ED:72:THR:HG21	1.97	0.46
46:ED:342:VAL:HG13	46:ED:345:ILE:HG22	1.96	0.46
45:EE:141:VAL:HG12	45:EE:171:ILE:O	2.16	0.46
45:EI:303:ALA:O	45:EI:305:CYS:N	2.46	0.46
45:EI:430:LYS:O	45:EI:433:GLU:HG3	2.15	0.46
46:EL:143:THR:OG1	46:EL:144:GLY:N	2.47	0.46
45:FC:387:VAL:HA	45:FC:390:ARG:HG2	1.97	0.46
45:FE:175:PRO:HG2	45:FE:304:LYS:NZ	2.30	0.46
45:FG:241:SER:OG	45:FG:250:VAL:O	2.32	0.46
45:FI:417:GLU:HA	45:FI:420:GLU:OE2	2.15	0.46
46:FJ:268:ILE:HG22	46:FJ:368:VAL:HG22	1.96	0.46
45:FM:171:ILE:HG23	45:FM:204:LEU:O	2.15	0.46
46:GB:87:PRO:HA	46:GB:90:PHE:HD2	1.79	0.46
45:GG:3:GLU:OE2	45:GG:131:GLY:N	2.47	0.46
46:GH:31:ASP:OD2	46:GH:37:HIS:NE2	2.47	0.46
45:GI:288:VAL:HA	45:GI:291:ILE:HG12	1.95	0.46
45:GI:401:LYS:HB2	45:GI:401:LYS:HE3	1.71	0.46
45:GK:192:HIS:CD2	45:GK:421:ALA:HA	2.50	0.46
45:GK:194:LEU:O	45:GK:198:THR:HG22	2.15	0.46
45:HA:31:GLN:NE2	45:HA:35:GLN:HB3	2.30	0.46
45:HE:222:PRO:HD2	46:HF:324:LYS:CD	2.45	0.46
45:HI:256:GLN:O	45:HI:260:VAL:HG12	2.15	0.46
45:HK:210:TYR:HD1	46:HL:324:LYS:HD3	1.80	0.46
46:HN:154:LYS:O	46:HN:157:GLU:HG2	2.15	0.46
46:HN:186:THR:HG23	46:HN:415:MET:HG3	1.96	0.46
45:IA:248:LEU:HB3	45:IA:355:ILE:HG12	1.97	0.46
45:IC:434:GLU:O	45:IC:437:ILE:HG12	2.15	0.46
46:ID:86:ARG:HG3	45:JA:283:HIS:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ID:257:LEU:HD11	46:ID:314:SER:HB2	1.97	0.46
46:IF:25:SER:OG	46:IF:30:ILE:O	2.33	0.46
46:IH:102:ALA:HB1	46:IH:401:GLU:HB2	1.97	0.46
45:IK:147:SER:HB2	45:IK:190:SER:OG	2.15	0.46
45:JA:214:ARG:NH2	45:JA:215:ARG:HB3	2.29	0.46
45:JA:214:ARG:HH22	45:JA:215:ARG:HB3	1.81	0.46
45:JA:417:GLU:N	45:JA:417:GLU:OE1	2.46	0.46
46:JB:154:LYS:O	46:JB:157:GLU:HG3	2.15	0.46
46:JF:113:ILE:HA	46:JF:116:VAL:HG22	1.97	0.46
46:KD:100:ASN:HD21	46:KD:397:TRP:HB3	1.80	0.46
45:KE:32:PRO:HB3	45:KE:83:TYR:HE1	1.80	0.46
45:KE:175:PRO:C	45:KE:390:ARG:HH22	2.19	0.46
45:KG:26:LEU:HD11	45:KG:364:PRO:HD2	1.97	0.46
45:KI:288:VAL:HA	45:KI:291:ILE:HG12	1.96	0.46
46:KJ:51:TYR:HB3	46:KJ:59:TYR:HB3	1.97	0.46
45:KK:88:HIS:HB3	45:KK:91:GLN:HG2	1.96	0.46
45:KK:319:TYR:HE2	45:KK:328:VAL:HG22	1.80	0.46
45:KM:77:GLU:OE2	45:KM:77:GLU:HA	2.15	0.46
45:LC:222:PRO:O	46:LD:322:SER:HB2	2.14	0.46
45:LE:205:ASP:OD2	45:LE:303:ALA:HA	2.14	0.46
45:LG:289:ALA:O	45:LG:293:ASN:ND2	2.30	0.46
45:LM:102:ASN:ND2	45:LM:105:ARG:HG3	2.30	0.46
46:LN:1:MET:SD	46:LN:2:ARG:NH1	2.84	0.46
45:MA:231:ILE:O	45:MA:235:ILE:HG12	2.14	0.46
46:MB:210:ILE:O	46:MB:214:THR:OG1	2.26	0.46
45:MC:1:MET:SD	45:MC:2:ARG:NH2	2.88	0.46
46:MD:32:PRO:HA	46:MD:84:LEU:HD11	1.97	0.46
46:MD:318:ARG:HH11	46:MD:358:PRO:HG3	1.80	0.46
45:MM:177:VAL:HG22	46:MN:331:LEU:HD22	1.97	0.46
45:NA:68:LEU:HD11	45:NA:118:CYS:HB2	1.97	0.46
45:NA:77:GLU:HA	45:NA:80:THR:OG1	2.15	0.46
46:ND:199:CYS:O	46:ND:265:PHE:HA	2.15	0.46
46:ND:268:ILE:HG22	46:ND:368:VAL:HG22	1.96	0.46
45:NE:287:SER:N	45:NE:290:GLU:OE2	2.48	0.46
46:NH:66:MET:HA	46:NH:91:VAL:O	2.15	0.46
46:NJ:248:SER:HA	46:NJ:252:LYS:HD2	1.97	0.46
45:NM:17:GLY:HA2	45:NM:20:CYS:SG	2.55	0.46
46:NN:64:ILE:HA	46:NN:89:ASN:HB3	1.97	0.46
45:OA:87:PHE:HB3	45:OA:91:GLN:HE21	1.80	0.46
45:OA:137:VAL:HG23	45:OA:168:GLY:HA2	1.96	0.46
45:OC:85:GLN:N	45:OC:85:GLN:OE1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OE:169:PHE:CE2	45:OE:235:ILE:HD12	2.50	0.46
46:OF:178:THR:HB	46:OF:181:GLU:CD	2.36	0.46
46:OH:113:ILE:HG21	46:OH:150:LEU:HD22	1.97	0.46
45:OI:257:THR:HG22	46:OL:397:TRP:HZ3	1.80	0.46
46:OL:35:THR:HG23	46:OL:37:HIS:CE1	2.50	0.46
46:OL:65:LEU:HD22	46:OL:90:PHE:CE1	2.50	0.46
46:OL:359:LYS:HA	46:OL:359:LYS:HD2	1.78	0.46
45:OM:276:ILE:HG22	45:OM:277:SER:O	2.16	0.46
45:PA:352:LYS:HD3	46:PD:179:VAL:HG13	1.96	0.46
45:PC:96:LYS:HE2	46:PD:2:ARG:HB3	1.97	0.46
45:PC:132:LEU:HD22	45:PC:164:LYS:NZ	2.30	0.46
45:PC:181:VAL:HG23	45:PC:182:VAL:HG13	1.96	0.46
45:PC:391:LEU:HG	45:PC:394:LYS:NZ	2.26	0.46
45:PE:35:GLN:N	45:PE:35:GLN:OE1	2.49	0.46
46:PF:237:THR:HG23	46:PF:241:ARG:NH2	2.29	0.46
45:PG:183:GLU:N	45:PG:184:PRO:HD2	2.30	0.46
45:PG:426:ALA:C	45:PG:430:LYS:HZ2	2.19	0.46
45:PI:153:LEU:O	45:PI:157:LEU:HD23	2.15	0.46
45:PK:222:PRO:HG2	46:PL:324:LYS:HG2	1.97	0.46
46:PL:212:PHE:CE1	46:PL:220:PRO:HG2	2.50	0.46
46:QB:19:LYS:HD3	46:QB:227:HIS:CG	2.50	0.46
45:QE:91:GLN:HG3	45:QE:92:LEU:HD12	1.97	0.46
46:QF:151:LEU:O	46:QF:155:VAL:HG12	2.14	0.46
46:QH:317:PHE:HB2	46:QH:353:ILE:HD13	1.96	0.46
45:QI:4:VAL:HG12	45:QI:133:GLN:HB2	1.96	0.46
46:QL:209:ASP:O	46:QL:213:ARG:HG2	2.15	0.46
46:QL:379:LYS:O	46:QL:383:GLU:OE1	2.33	0.46
46:QN:262:ARG:NH1	46:QN:421:GLU:OE1	2.46	0.46
45:RC:390:ARG:O	45:RC:394:LYS:HG2	2.15	0.46
46:RF:2:ARG:HH12	45:RG:71:GLU:HB2	1.80	0.46
46:RF:52:ASN:CG	46:RF:62:ARG:HE	2.18	0.46
46:RF:86:ARG:NH1	46:RF:88:ASP:OD1	2.48	0.46
45:RG:19:ALA:O	45:RG:22:GLU:HG2	2.15	0.46
45:RG:280:LYS:NZ	45:RG:284:GLU:OE1	2.49	0.46
45:RG:318:MET:HB2	45:RG:376:CYS:SG	2.55	0.46
45:RK:171:ILE:O	45:RK:171:ILE:HG13	2.15	0.46
46:RL:262:ARG:NH1	46:RL:418:LEU:HA	2.31	0.46
46:SH:318:ARG:HD3	46:SH:358:PRO:HD3	1.97	0.46
45:SI:333:ALA:O	45:SI:337:THR:HG23	2.15	0.46
46:SL:178:THR:HB	46:SL:181:GLU:HG3	1.97	0.46
45:TC:417:GLU:OE1	45:TC:417:GLU:N	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TF:108:GLU:HA	46:TF:111:GLU:OE2	2.15	0.46
46:TF:226:ASN:HA	46:TF:229:VAL:HG22	1.97	0.46
45:TG:34:GLY:O	45:TG:60:LYS:HA	2.15	0.46
46:TH:329:GLN:O	46:TH:333:VAL:HG22	2.14	0.46
45:TI:229:ARG:CZ	45:TI:366:GLY:HA2	2.45	0.46
45:TK:195:LEU:HD21	45:TK:428:LEU:HD21	1.97	0.46
46:TL:1:MET:CE	46:TL:2:ARG:H	2.27	0.46
46:TL:86:ARG:HH11	46:UL:281:TYR:HB3	1.80	0.46
45:TM:24:PHE:HA	45:TM:27:GLU:HG2	1.97	0.46
45:TM:174:SER:OG	45:TM:207:GLU:HB2	2.16	0.46
45:UA:346:TRP:CD1	46:UB:391:ARG:HG3	2.50	0.46
46:UB:86:ARG:HH22	46:UB:122:LYS:NZ	2.14	0.46
46:UB:286:VAL:HG12	46:UB:329:GLN:HG3	1.96	0.46
46:UB:318:ARG:HD3	46:UB:358:PRO:HG3	1.97	0.46
46:UB:324:LYS:NZ	45:UC:221:ARG:HH11	2.12	0.46
45:UC:107:HIS:ND1	45:UC:107:HIS:O	2.48	0.46
45:UC:205:ASP:OD1	45:UC:303:ALA:HA	2.16	0.46
46:UD:313:ALA:HB1	46:UD:367:PHE:HE1	1.80	0.46
45:UE:129:CYS:SG	45:UE:132:LEU:HB3	2.55	0.46
45:UE:150:GLY:O	45:UE:154:LEU:HD23	2.15	0.46
45:UK:14:ILE:HD11	45:UK:69:ASP:HB2	1.97	0.46
45:UK:98:ASP:OD1	45:UK:99:ALA:N	2.48	0.46
45:UK:387:VAL:HG12	45:UK:390:ARG:NH1	2.30	0.46
45:VA:145:THR:OG1	47:VA:501:GTP:O1B	2.32	0.46
45:VA:311:LYS:HD3	45:VA:342:GLN:HG3	1.97	0.46
46:VB:316:LEU:HD13	46:VB:352:SER:HB2	1.97	0.46
46:VF:306:ARG:HG2	46:VF:340:TYR:CE1	2.50	0.46
45:VG:115:VAL:HG11	45:VG:152:LEU:HD23	1.97	0.46
46:VH:286:VAL:CG2	46:VH:287:PRO:HD3	2.44	0.46
46:VH:306:ARG:HB2	46:VH:340:TYR:CE1	2.50	0.46
46:VH:317:PHE:CE2	46:VH:326:VAL:HG13	2.50	0.46
45:VK:8:HIS:HB2	45:VK:67:PHE:HD2	1.79	0.46
45:WC:136:LEU:HD22	45:WC:169:PHE:HE2	1.80	0.46
46:WD:12:CYS:O	46:WD:16:ILE:HG12	2.15	0.46
46:WD:289:LEU:HD11	46:WD:363:MET:HB3	1.97	0.46
45:WG:265:ILE:HD11	45:WG:435:VAL:HG21	1.96	0.46
45:WK:55:GLU:CD	45:WK:57:GLY:H	2.19	0.46
46:WL:58:ARG:HD2	46:WL:59:TYR:N	2.30	0.46
45:DC:36:MET:HG3	45:DC:38:SER:H	1.80	0.46
18:II:152:LYS:NZ	45:KE:364:PRO:HG2	2.30	0.46
22:2M:44:VAL:HG13	46:IJ:78:ALA:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:402:GLN:HG3	46:VD:276:ARG:HH22	1.79	0.46
25:2R:390:ASP:OD1	46:EH:218:THR:OG1	2.32	0.46
1:3A:138:TRP:HZ3	45:AM:81:GLY:HA2	1.80	0.46
11:3S:271:ASP:OD2	10:6Q:36:ARG:NE	2.32	0.46
34:4R:215:LEU:HA	34:4R:218:ILE:HD12	1.96	0.46
37:5F:181:TYR:O	37:5F:184:GLN:HG3	2.15	0.46
34:5R:509:ASP:HB3	34:5R:512:THR:HG23	1.96	0.46
35:5S:167:LYS:HA	35:5S:170:THR:HG22	1.98	0.46
40:6G:268:VAL:HG13	45:VA:338:LYS:HE2	1.96	0.46
10:6Q:9:GLY:HA2	10:6Q:170:ARG:HH12	1.80	0.46
34:7R:389:ASN:N	46:EB:276:ARG:HH12	2.12	0.46
45:AA:102:ASN:ND2	45:AA:407:TRP:O	2.45	0.46
45:AC:68:LEU:HD13	45:AC:93:ILE:HB	1.97	0.46
45:AC:215:ARG:NH2	45:AC:300:ASN:OD1	2.48	0.46
46:AD:117:LEU:HA	46:AD:120:VAL:HG12	1.97	0.46
45:AE:402:ARG:NH2	45:AE:415:GLU:OE1	2.48	0.46
46:AF:45:GLU:C	46:AF:46:ARG:HD2	2.35	0.46
46:AF:111:GLU:OE1	46:AF:111:GLU:N	2.49	0.46
45:AG:156:ARG:HH11	45:AG:156:ARG:HA	1.80	0.46
45:AG:231:ILE:O	45:AG:235:ILE:HG12	2.15	0.46
46:AH:173:PRO:HD3	46:AH:380:ARG:HH21	1.80	0.46
45:AI:387:VAL:HG12	45:AI:390:ARG:NH1	2.30	0.46
46:AL:287:PRO:HG3	46:AL:329:GLN:NE2	2.30	0.46
45:AM:68:LEU:HD23	45:AM:93:ILE:HB	1.96	0.46
45:BA:88:HIS:HD1	45:BA:121:ARG:HH22	1.63	0.46
46:BD:201:VAL:HG23	46:BD:301:CYS:SG	2.55	0.46
46:BF:86:ARG:HG3	46:BF:88:ASP:OD1	2.15	0.46
45:BI:103:PHE:H	45:BI:408:TYR:HE2	1.62	0.46
45:BI:222:PRO:O	46:BJ:324:LYS:HG2	2.15	0.46
46:BJ:52:ASN:OD1	46:BJ:62:ARG:NH2	2.49	0.46
45:BK:51:THR:HG22	45:BK:52:PHE:CD2	2.51	0.46
45:BK:88:HIS:HD2	45:CK:283:HIS:HB3	1.80	0.46
45:BK:167:LEU:HG	45:BK:200:VAL:HB	1.97	0.46
45:BM:328:VAL:HG11	45:BM:353:VAL:HG21	1.97	0.46
46:BN:68:LEU:HB3	46:BN:96:GLY:HA2	1.97	0.46
46:BN:260:PHE:HB2	46:BN:263:LEU:HD12	1.96	0.46
46:CD:148:GLY:O	46:CD:152:ILE:HG13	2.14	0.46
46:CF:68:LEU:HB3	46:CF:96:GLY:HA2	1.96	0.46
46:CL:359:LYS:HE2	46:CL:359:LYS:HA	1.97	0.46
46:DB:12:CYS:O	46:DB:16:ILE:HG12	2.15	0.46
46:DB:222:TYR:HA	46:DB:225:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DD:312:THR:HG22	46:DD:370:ASN:HB3	1.97	0.46
45:DE:187:SER:O	45:DE:191:THR:HG23	2.15	0.46
46:DF:290:THR:HG21	46:DF:329:GLN:CG	2.45	0.46
45:DI:101:ASN:HA	45:DI:144:GLY:H	1.79	0.46
45:DK:76:ASP:HA	45:DK:79:ARG:HG2	1.97	0.46
46:DL:134:GLN:O	46:DL:135:ILE:HD13	2.16	0.46
45:EC:205:ASP:OD1	45:EC:206:ASN:N	2.48	0.46
45:EI:287:SER:O	45:EI:291:ILE:HG12	2.15	0.46
45:EK:346:TRP:CD1	46:EL:391:ARG:HG3	2.51	0.46
46:EL:19:LYS:HD2	46:EL:22:GLU:OE2	2.15	0.46
46:EL:54:ALA:HA	46:FL:283:ALA:HB2	1.96	0.46
46:EL:263:LEU:HD22	46:EL:422:TYR:HD1	1.80	0.46
45:FA:192:HIS:ND1	45:FA:421:ALA:HA	2.30	0.46
46:FD:290:THR:HA	46:FD:293:MET:CG	2.44	0.46
45:FK:118:CYS:O	45:FK:122:ILE:HG12	2.14	0.46
45:FM:188:ILE:HD11	45:FM:391:LEU:HB3	1.97	0.46
46:GB:318:ARG:HB3	46:GB:357:PRO:HA	1.97	0.46
46:GD:210:ILE:O	46:GD:214:THR:OG1	2.21	0.46
45:GI:171:ILE:HG23	45:GI:204:LEU:O	2.16	0.46
46:GJ:184:ASN:OD1	46:GJ:185:ALA:N	2.48	0.46
46:GJ:318:ARG:HH11	46:GJ:358:PRO:HG3	1.79	0.46
46:HD:180:VAL:O	46:HD:180:VAL:HG12	2.15	0.46
46:HH:11:GLN:O	46:HH:15:GLN:HG2	2.14	0.46
46:HH:198:GLU:OE2	46:HH:200:MET:HG3	2.15	0.46
46:HH:284:LEU:HD11	46:HH:362:LYS:HB2	1.97	0.46
45:HI:287:SER:N	45:HI:290:GLU:OE2	2.36	0.46
46:HJ:163:ILE:HA	46:HJ:197:ASP:OD2	2.15	0.46
46:HJ:274:THR:HB	46:HJ:282:ARG:HH11	1.80	0.46
45:HK:150:GLY:O	45:HK:154:LEU:HD23	2.14	0.46
45:HM:139:ASN:ND2	45:HM:146:GLY:O	2.45	0.46
46:HN:152:ILE:O	46:HN:156:ARG:HG2	2.16	0.46
45:IC:245:ASP:N	45:IC:245:ASP:OD1	2.47	0.46
46:IJ:207:LEU:HB3	46:IJ:225:LEU:HD22	1.96	0.46
46:JB:31:ASP:OD2	46:JB:37:HIS:ND1	2.49	0.46
46:JB:214:THR:O	46:JB:275:SER:HB3	2.15	0.46
46:JD:178:THR:HB	46:JD:181:GLU:OE2	2.14	0.46
45:JG:88:HIS:CE1	45:JG:90:GLU:HG2	2.50	0.46
45:JI:174:SER:HB2	45:JI:177:VAL:O	2.15	0.46
45:JK:73:THR:HA	46:JL:46:ARG:HH22	1.79	0.46
46:JL:148:GLY:O	46:JL:152:ILE:HG13	2.14	0.46
45:JM:27:GLU:OE2	45:JM:28:HIS:ND1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JM:214:ARG:NH2	45:JM:215:ARG:HG2	2.31	0.46
45:KA:298:PRO:HB3	45:KA:307:PRO:HD2	1.97	0.46
46:KD:175:VAL:O	46:KD:175:VAL:HG13	2.15	0.46
45:KI:206:ASN:OD1	47:KI:501:GTP:N2	2.48	0.46
45:KK:294:SER:HA	45:KK:297:GLU:HG2	1.98	0.46
46:KL:3:GLU:OE2	46:KL:127:CYS:HB2	2.15	0.46
46:KL:233:MET:O	46:KL:236:VAL:HG12	2.15	0.46
45:KM:69:ASP:OD1	45:KM:70:LEU:N	2.49	0.46
46:LB:48:ASN:O	46:LB:62:ARG:NH1	2.38	0.46
46:LB:97:ALA:HB2	46:LB:143:THR:HB	1.98	0.46
46:LB:103:LYS:HA	46:LB:107:THR:HG22	1.97	0.46
45:LE:5:ILE:HB	45:LE:135:PHE:CD1	2.50	0.46
45:LI:98:ASP:OD1	45:LI:99:ALA:N	2.48	0.46
46:LJ:324:LYS:HG3	46:LJ:325:GLU:N	2.30	0.46
46:MB:299:MET:HG3	46:MB:301:CYS:N	2.22	0.46
45:MC:262:TYR:OH	46:MF:391:ARG:O	2.31	0.46
46:MD:6:HIS:NE2	46:MD:8:GLN:OE1	2.49	0.46
45:NA:141:VAL:HG22	45:NA:187:SER:HA	1.97	0.46
45:NA:326:LYS:HE2	46:ND:208:TYR:HD2	1.80	0.46
45:NC:363:VAL:HG13	45:NC:366:GLY:HA3	1.96	0.46
45:NE:217:LEU:HB2	45:NE:219:ILE:HG22	1.98	0.46
46:NF:190:HIS:CD2	46:NF:414:ASN:HD22	2.34	0.46
46:NH:87:PRO:HD2	46:OH:281:TYR:HD2	1.80	0.46
46:OB:257:LEU:HD21	46:OB:314:SER:HB2	1.97	0.46
45:OG:156:ARG:HD3	45:OG:156:ARG:HA	1.73	0.46
45:OG:171:ILE:HG23	45:OG:204:LEU:O	2.16	0.46
45:OI:141:VAL:HG22	45:OI:187:SER:HA	1.96	0.46
45:PC:22:GLU:OE2	45:PC:83:TYR:HE2	1.97	0.46
45:PC:325:PRO:HG3	45:PC:355:ILE:HD13	1.97	0.46
45:PE:98:ASP:O	45:PE:105:ARG:NH1	2.49	0.46
45:PE:222:PRO:O	46:PF:324:LYS:HD3	2.16	0.46
45:PE:259:LEU:HD21	45:PE:316:SER:HB2	1.96	0.46
46:PF:68:LEU:HD23	46:PF:143:THR:OG1	2.15	0.46
46:PF:285:THR:HG23	46:PF:287:PRO:HD2	1.97	0.46
45:PG:119:LEU:HD11	45:PG:157:LEU:HD22	1.97	0.46
46:PH:113:ILE:HD11	46:PH:151:LEU:HB2	1.97	0.46
45:PI:261:PRO:HA	46:PL:394:PHE:CD1	2.50	0.46
45:PK:11:GLN:O	45:PK:15:GLN:HG2	2.15	0.46
45:PK:387:VAL:O	45:PK:390:ARG:HG2	2.15	0.46
46:PL:222:TYR:O	46:PL:226:ASN:ND2	2.25	0.46
46:PN:333:VAL:HA	46:PN:336:LYS:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QA:320:ARG:HH12	45:QA:360:PRO:HA	1.80	0.46
46:QB:86:ARG:HG3	46:QB:88:ASP:H	1.79	0.46
46:QD:44:LEU:O	46:QD:47:ILE:HG12	2.15	0.46
46:QF:8:GLN:OE1	46:QF:17:GLY:HA3	2.15	0.46
46:QF:86:ARG:HG2	46:QF:88:ASP:OD2	2.14	0.46
45:QG:15:GLN:NE2	45:QG:228:ASN:OD1	2.43	0.46
45:QG:17:GLY:O	45:QG:21:TRP:HD1	1.98	0.46
45:QG:167:LEU:HD13	45:QG:200:VAL:HB	1.96	0.46
45:QI:231:ILE:O	45:QI:235:ILE:HG12	2.16	0.46
45:QK:70:LEU:HA	45:QK:95:GLY:H	1.80	0.46
45:QK:88:HIS:HB3	45:QK:91:GLN:HG3	1.96	0.46
45:QM:78:VAL:HG12	45:QM:87:PHE:CE2	2.50	0.46
45:RE:326:LYS:HD2	46:RF:220:PRO:HG2	1.97	0.46
45:RG:239:THR:HG23	45:RG:243:ARG:HH21	1.80	0.46
45:RI:20:CYS:HA	45:RI:232:ALA:HB1	1.96	0.46
46:RL:164:MET:H	46:RL:197:ASP:HB2	1.79	0.46
45:SC:430:LYS:O	45:SC:433:GLU:HG3	2.15	0.46
46:SD:167:PHE:CE2	46:SD:233:MET:HG2	2.50	0.46
45:SI:176:GLN:NE2	45:SI:207:GLU:OE2	2.44	0.46
45:SK:138:PHE:HZ	45:SK:235:ILE:HD12	1.79	0.46
45:SM:85:GLN:CD	45:SM:85:GLN:H	2.19	0.46
46:TB:238:CYS:SG	46:TB:239:CYS:N	2.88	0.46
45:TE:205:ASP:OD1	45:TE:303:ALA:HA	2.15	0.46
45:TE:420:GLU:HA	45:TE:423:GLU:CD	2.36	0.46
45:TG:390:ARG:HG3	45:TG:391:LEU:HD12	1.96	0.46
46:TH:318:ARG:HH11	46:TH:358:PRO:HG3	1.79	0.46
45:TK:287:SER:O	45:TK:291:ILE:HG12	2.16	0.46
46:TL:68:LEU:HD21	46:TL:108:GLU:OE2	2.14	0.46
46:TL:414:ASN:O	46:TL:418:LEU:HD23	2.16	0.46
46:TN:290:THR:HA	46:TN:293:MET:HB2	1.96	0.46
46:UB:324:LYS:NZ	45:UC:221:ARG:HA	2.30	0.46
45:UC:10:GLY:O	45:UC:14:ILE:HD12	2.15	0.46
45:UE:183:GLU:N	45:UE:184:PRO:HD2	2.30	0.46
45:UG:203:MET:HE1	45:UG:267:PHE:HB3	1.98	0.46
45:UI:186:ASN:OD1	45:UI:187:SER:N	2.48	0.46
45:UM:265:ILE:HG12	45:UM:380:ASN:HD21	1.81	0.46
45:UM:325:PRO:HG3	45:UM:355:ILE:HD13	1.97	0.46
46:UN:68:LEU:HD22	46:UN:108:GLU:OE2	2.15	0.46
45:VA:10:GLY:O	45:VA:14:ILE:HG12	2.15	0.46
46:VB:164:MET:O	46:VB:197:ASP:HB3	2.15	0.46
46:VB:282:ARG:HH22	46:VB:289:LEU:HD22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VD:48:ASN:O	46:VD:62:ARG:NH1	2.45	0.46
45:VE:183:GLU:N	45:VE:184:PRO:HD2	2.30	0.46
46:VF:6:HIS:O	46:VF:63:ALA:HA	2.14	0.46
45:VG:393:HIS:O	45:VG:397:LEU:HD23	2.15	0.46
45:VK:221:ARG:NH2	46:VL:321:MET:HA	2.30	0.46
46:VL:83:GLN:OE1	46:VL:83:GLN:HA	2.15	0.46
46:VL:198:GLU:HB2	46:VL:266:PHE:CE2	2.50	0.46
45:WC:80:THR:HA	45:WC:84:ARG:HH21	1.79	0.46
45:WC:181:VAL:HG22	46:WD:256:ASN:OD1	2.15	0.46
45:WE:264:ARG:CZ	45:WE:264:ARG:HA	2.44	0.46
45:WG:11:GLN:O	45:WG:15:GLN:HG2	2.15	0.46
45:WG:319:TYR:CE2	45:WG:328:VAL:HG22	2.50	0.46
46:WH:396:HIS:CD2	46:WH:397:TRP:HD1	2.34	0.46
46:WJ:318:ARG:NH1	46:WJ:358:PRO:HG3	2.29	0.46
45:WM:223:THR:HG23	45:WM:225:THR:H	1.80	0.46
2:0B:76:PHE:HD2	46:JH:362:LYS:HZ3	1.64	0.46
7:0G:112:LYS:HD3	45:JM:364:PRO:HB2	1.96	0.46
14:0V:86:ARG:HH12	46:LN:414:ASN:ND2	2.12	0.46
19:1J:142:VAL:HB	45:IE:285:GLN:HB2	1.96	0.46
19:1J:273:TRP:HE1	46:IL:276:ARG:HE	1.63	0.46
20:1K:44:GLU:OE1	46:JF:94:GLN:NE2	2.47	0.46
24:1P:302:LYS:NZ	46:TD:362:LYS:HE2	2.31	0.46
14:1V:24:ARG:NH1	45:MI:433:GLU:HB2	2.30	0.46
31:2I:45:LYS:HE2	46:GH:336:LYS:HD3	1.96	0.46
31:2I:138:VAL:HB	46:FD:121:ARG:CZ	2.44	0.46
20:2K:269:GLU:CD	45:GK:370:LYS:HG2	2.35	0.46
26:2W:183:SER:OG	45:KM:45:GLY:N	2.43	0.46
15:2X:49:ILE:HD11	45:MI:282:TYR:H	1.80	0.46
15:2X:70:TYR:CD1	46:MJ:362:LYS:HG2	2.50	0.46
31:3I:285:ARG:NH2	45:FG:55:GLU:HG2	2.30	0.46
15:3X:42:LYS:NZ	45:LM:57:GLY:O	2.41	0.46
34:4R:453:ILE:HG12	34:4R:490:PHE:HZ	1.81	0.46
36:5A:68:ASP:HA	37:5E:69:LYS:HD3	1.97	0.46
36:5C:97:LYS:HB3	36:5C:108:ARG:HE	1.80	0.46
36:5C:142:GLN:CD	46:NL:245:GLN:HE22	2.18	0.46
37:5E:48:ARG:HD2	37:5E:48:ARG:HA	1.76	0.46
37:5G:60:TRP:HA	46:OJ:279:GLN:OE1	2.15	0.46
37:5G:63:HIS:CD2	46:NJ:58:ARG:HD2	2.50	0.46
37:5G:116:TYR:CE1	45:NI:85:GLN:HA	2.51	0.46
10:5Q:48:GLU:HG2	10:5Q:161:ARG:HG2	1.96	0.46
39:6F:62:GLN:HG2	45:IE:84:ARG:NH2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:6G:83:GLU:HG3	40:6G:84:VAL:H	1.80	0.46
40:6G:98:ARG:HD3	45:UK:113:GLU:OE1	2.16	0.46
41:6H:251:ASP:HB3	46:FF:362:LYS:HE2	1.96	0.46
34:7R:69:LYS:HD3	34:7R:70:ARG:O	2.15	0.46
34:7R:406:PRO:HG3	46:EB:216:LYS:HE3	1.98	0.46
45:AE:98:ASP:O	45:AE:105:ARG:NH1	2.48	0.46
45:AE:259:LEU:HD23	45:AE:268:MET:HE3	1.96	0.46
45:AG:263:PRO:HD3	46:AJ:396:HIS:CE1	2.51	0.46
45:AI:183:GLU:N	45:AI:184:PRO:HD2	2.30	0.46
45:AK:135:PHE:HB2	45:AK:166:LYS:HG2	1.96	0.46
45:AK:183:GLU:N	45:AK:184:PRO:HD2	2.30	0.46
45:AM:288:VAL:HA	45:AM:291:ILE:HG12	1.98	0.46
45:AM:398:MET:CE	46:AN:346:PRO:HD2	2.46	0.46
45:BA:265:ILE:HG12	45:BA:432:TYR:HE1	1.80	0.46
45:BA:276:ILE:HD12	45:BA:281:ALA:HA	1.96	0.46
46:BB:20:PHE:CZ	46:BB:24:ILE:HD11	2.50	0.46
45:BC:319:TYR:CD2	45:BC:328:VAL:HG22	2.50	0.46
46:BD:87:PRO:HD2	46:CB:281:TYR:CD1	2.49	0.46
45:BE:260:VAL:HB	46:BH:397:TRP:CZ2	2.48	0.46
46:BF:64:ILE:HD11	46:BF:123:GLU:HG3	1.96	0.46
46:BF:178:THR:HG22	46:BF:180:VAL:H	1.79	0.46
45:BG:223:THR:HG22	46:BH:322:SER:HB2	1.97	0.46
45:BG:298:PRO:HG3	45:BG:308:ARG:NH1	2.31	0.46
46:BH:317:PHE:CD2	46:BH:365:VAL:HG22	2.51	0.46
46:BH:332:ASN:HA	46:BH:336:LYS:NZ	2.30	0.46
46:BL:3:GLU:OE2	46:BL:127:CYS:HB2	2.15	0.46
46:BL:65:LEU:HD22	46:BL:90:PHE:CE1	2.50	0.46
45:BM:206:ASN:HB3	45:BM:210:TYR:HE2	1.81	0.46
45:CC:10:GLY:O	45:CC:14:ILE:HD12	2.14	0.46
45:CC:174:SER:HB2	45:CC:177:VAL:O	2.16	0.46
46:CF:222:TYR:HD1	49:CF:501:GDP:C6	2.33	0.46
45:CG:258:ASN:ND2	45:CG:352:LYS:HE3	2.31	0.46
46:CJ:164:MET:SD	46:CJ:196:ALA:HA	2.55	0.46
46:CN:198:GLU:HG2	46:CN:266:PHE:HE2	1.80	0.46
46:DD:407:GLU:HA	46:DD:410:GLU:HG3	1.98	0.46
45:DI:187:SER:O	45:DI:191:THR:HG23	2.15	0.46
45:EC:81:GLY:O	45:EC:84:ARG:HG3	2.14	0.46
45:EC:171:ILE:HG22	45:EC:204:LEU:HB2	1.96	0.46
46:ED:183:TYR:CE1	46:ED:388:MET:HB3	2.51	0.46
46:ED:362:LYS:HD3	46:ED:362:LYS:N	2.30	0.46
45:EE:241:SER:OG	45:EE:250:VAL:O	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:12:CYS:HA	46:EF:15:GLN:HE21	1.79	0.46
45:EG:325:PRO:HB2	46:EH:208:TYR:OH	2.14	0.46
45:EK:276:ILE:HD11	45:EK:280:LYS:HG3	1.96	0.46
45:EM:188:ILE:HD12	45:EM:425:LEU:HD11	1.98	0.46
46:EN:296:ALA:HB1	46:EN:305:PRO:HD2	1.98	0.46
46:FB:10:GLY:O	46:FB:14:ASN:ND2	2.48	0.46
45:FC:210:TYR:CE1	45:FC:227:LEU:HD11	2.51	0.46
46:FD:289:LEU:O	46:FD:293:MET:HG2	2.16	0.46
45:FG:411:GLU:OE1	45:FG:411:GLU:N	2.48	0.46
46:FH:133:PHE:HB2	46:FH:164:MET:SD	2.54	0.46
46:FL:314:SER:OG	46:FL:368:VAL:HB	2.15	0.46
45:FM:293:ASN:O	45:FM:297:GLU:HG3	2.16	0.46
46:GF:4:ILE:HG13	46:GF:132:GLY:O	2.14	0.46
45:GG:20:CYS:O	45:GG:24:PHE:HD1	1.99	0.46
45:GG:326:LYS:NZ	46:GJ:208:TYR:O	2.44	0.46
46:GH:116:VAL:HA	46:GH:119:VAL:HG12	1.98	0.46
45:GK:408:TYR:HB3	45:GK:413:MET:HE3	1.97	0.46
46:GN:114:ASP:O	46:GN:117:LEU:HG	2.15	0.46
46:HB:262:ARG:NH1	46:HB:421:GLU:OE1	2.48	0.46
45:HC:221:ARG:NH2	46:HD:322:SER:H	2.13	0.46
46:HD:39:ASP:N	46:HD:39:ASP:OD2	2.48	0.46
45:HE:239:THR:HG23	45:HE:243:ARG:NH1	2.30	0.46
46:HF:109:GLY:HA2	46:HF:147:MET:HE3	1.96	0.46
45:HI:222:PRO:HG2	46:HJ:324:LYS:CE	2.44	0.46
46:HJ:36:TYR:CD2	46:HJ:44:LEU:HD21	2.50	0.46
45:HM:221:ARG:NH2	46:HN:321:MET:HA	2.30	0.46
45:IA:261:PRO:CD	45:IA:262:TYR:N	2.76	0.46
45:IC:119:LEU:O	45:IC:123:ARG:HG2	2.16	0.46
45:IG:398:MET:HE3	46:IH:345:ILE:HA	1.96	0.46
45:II:288:VAL:HA	45:II:291:ILE:HG12	1.96	0.46
45:IK:276:ILE:CG1	45:IK:281:ALA:HB2	2.45	0.46
46:JF:193:VAL:HG11	46:JF:418:LEU:HD12	1.97	0.46
46:JF:415:MET:HE2	46:JF:415:MET:HB3	1.81	0.46
45:JI:426:ALA:O	45:JI:429:GLU:HG3	2.15	0.46
45:JK:211:ASP:O	45:JK:214:ARG:HG3	2.14	0.46
45:JK:272:TYR:CD2	45:JK:275:ILE:HD11	2.48	0.46
45:JK:330:ALA:O	45:JK:334:THR:HG23	2.15	0.46
46:JL:109:GLY:HA2	46:JL:147:MET:HE2	1.97	0.46
46:KD:238:CYS:SG	46:KD:318:ARG:HD3	2.55	0.46
46:LD:187:LEU:HD11	46:LD:408:PHE:HE1	1.81	0.46
46:LH:201:VAL:HG23	46:LH:301:CYS:SG	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LI:72:PRO:HD2	46:LJ:2:ARG:HH21	1.80	0.46
46:LJ:8:GLN:HE21	46:LJ:14:ASN:HA	1.80	0.46
46:LJ:238:CYS:HB2	46:LJ:318:ARG:HH21	1.80	0.46
45:LK:276:ILE:HD11	45:LK:280:LYS:HD2	1.96	0.46
45:LM:56:THR:OG1	45:MM:283:HIS:O	2.32	0.46
45:LM:119:LEU:HD11	45:LM:156:ARG:HG2	1.97	0.46
45:MC:141:VAL:HG11	45:MC:172:TYR:CD1	2.50	0.46
45:MC:317:MET:HE2	45:MC:319:TYR:CE1	2.51	0.46
46:MD:210:ILE:O	46:MD:214:THR:OG1	2.26	0.46
46:MD:213:ARG:HH22	46:MD:297:LYS:HG3	1.80	0.46
46:ML:139:LEU:HD13	46:ML:168:SER:HB3	1.97	0.46
45:NA:280:LYS:NZ	45:NA:282:TYR:H	2.12	0.46
46:NB:316:LEU:HB2	46:NB:366:THR:CG2	2.45	0.46
45:NC:35:GLN:NE2	45:NC:60:LYS:HB3	2.29	0.46
45:NE:101:ASN:OD1	45:NE:143:GLY:HA2	2.16	0.46
45:NE:181:VAL:HG13	45:NE:182:VAL:HG13	1.95	0.46
45:NG:88:HIS:HB3	45:NG:91:GLN:HG2	1.97	0.46
45:NK:2:ARG:HG2	45:NK:133:GLN:HE22	1.81	0.46
45:OA:88:HIS:CE1	45:OA:90:GLU:HG3	2.50	0.46
46:OD:304:ASP:HB3	46:OD:307:HIS:ND1	2.30	0.46
46:OF:86:ARG:NE	46:PF:281:TYR:HB3	2.30	0.46
45:OI:121:ARG:O	45:OI:125:LEU:HD23	2.14	0.46
45:OK:70:LEU:HD13	45:OK:95:GLY:HA3	1.97	0.46
45:PA:256:GLN:HB2	45:PA:260:VAL:HB	1.97	0.46
45:PA:315:CYS:HB2	45:PA:377:MET:CE	2.44	0.46
45:PC:298:PRO:HA	45:PC:301:MET:HE3	1.97	0.46
46:PL:189:VAL:HA	46:PL:192:LEU:HB2	1.98	0.46
46:PL:284:LEU:HD12	46:PL:284:LEU:O	2.16	0.46
46:PN:190:HIS:CD2	46:PN:414:ASN:HD22	2.33	0.46
45:QC:268:MET:CE	45:QC:378:ILE:HG22	2.44	0.46
45:QE:12:GLY:HA2	45:QE:15:GLN:HE21	1.81	0.46
45:QK:205:ASP:OD1	45:QK:303:ALA:HA	2.15	0.46
46:QL:58:ARG:HH12	46:QL:60:VAL:HB	1.80	0.46
46:QN:145:SER:HB2	46:QN:188:SER:HB3	1.97	0.46
45:RA:140:SER:OG	47:RA:501:GTP:O2B	2.33	0.46
45:RC:287:SER:O	45:RC:290:GLU:HG3	2.15	0.46
46:RL:405:GLU:HG2	46:RL:406:MET:HE1	1.97	0.46
45:RM:346:TRP:CD1	46:RN:391:ARG:HG3	2.51	0.46
45:SC:83:TYR:HD2	45:SC:86:LEU:HD12	1.81	0.46
46:SF:69:GLU:OE2	46:SF:72:THR:HG23	2.15	0.46
46:SH:8:GLN:HE22	46:SH:17:GLY:HA3	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SH:131:GLN:O	46:SH:163:ILE:HG12	2.15	0.46
46:SH:317:PHE:CD1	46:SH:365:VAL:HG22	2.50	0.46
45:SM:287:SER:HB3	45:SM:290:GLU:HG2	1.97	0.46
45:SM:404:PHE:CD2	45:SM:407:TRP:HZ3	2.34	0.46
46:TB:325:GLU:OE2	45:TC:221:ARG:NH1	2.47	0.46
46:TD:318:ARG:HH11	46:TD:358:PRO:HG3	1.79	0.46
46:TD:372:THR:HA	46:TD:422:TYR:CE2	2.51	0.46
45:TG:265:ILE:O	45:TG:265:ILE:HG13	2.15	0.46
46:TH:317:PHE:HB2	46:TH:353:ILE:HD13	1.96	0.46
46:TJ:392:LYS:HD3	46:TJ:392:LYS:N	2.30	0.46
45:TK:414:GLU:HB3	45:TK:417:GLU:OE1	2.15	0.46
45:TM:82:THR:HG23	45:TM:83:TYR:HD1	1.81	0.46
45:TM:362:VAL:HB	45:TM:370:LYS:HB3	1.96	0.46
46:UB:139:LEU:HG	46:UB:188:SER:OG	2.15	0.46
46:UD:63:ALA:O	46:UD:89:ASN:ND2	2.48	0.46
46:UD:380:ARG:O	46:UD:383:GLU:HG3	2.14	0.46
46:UF:257:LEU:HD11	46:UF:314:SER:HB2	1.98	0.46
46:UF:371:SER:O	46:UF:422:TYR:OH	2.28	0.46
45:UG:124:LYS:HD3	45:UG:124:LYS:HA	1.73	0.46
46:UH:132:GLY:HA2	46:UH:162:ARG:HG3	1.97	0.46
46:UH:175:VAL:HG22	46:UH:205:GLU:HB3	1.97	0.46
46:UJ:101:TRP:HB3	46:UJ:398:TYR:HE1	1.79	0.46
46:UJ:252:LYS:HA	45:UK:100:ALA:HB1	1.97	0.46
45:VA:185:TYR:HE1	45:VA:398:MET:HG3	1.80	0.46
45:VC:268:MET:N	45:VC:268:MET:SD	2.88	0.46
45:VE:231:ILE:O	45:VE:235:ILE:HG12	2.15	0.46
45:VE:387:VAL:HG12	45:VE:390:ARG:NH1	2.31	0.46
45:VG:23:LEU:HD12	45:VG:26:LEU:HD11	1.96	0.46
46:VJ:326:VAL:O	46:VJ:330:MET:HE3	2.15	0.46
45:VK:258:ASN:CB	45:VK:352:LYS:HE3	2.45	0.46
46:VN:249:ASP:OD1	46:VN:252:LYS:N	2.38	0.46
45:WA:332:ILE:O	45:WA:336:LYS:HG3	2.16	0.46
45:WA:430:LYS:O	45:WA:433:GLU:HG3	2.15	0.46
45:WC:242:LEU:HD11	45:WC:252:ILE:HG12	1.97	0.46
46:WD:294:PHE:CE2	46:WD:333:VAL:HG11	2.50	0.46
45:WE:296:PHE:HE2	45:WE:335:ILE:HG13	1.80	0.46
45:WE:352:LYS:HZ1	46:WH:178:THR:HA	1.76	0.46
45:WE:434:GLU:O	45:WE:437:ILE:HG12	2.16	0.46
46:WF:21:TRP:HA	46:WF:24:ILE:HG22	1.98	0.46
46:WF:167:PHE:CZ	46:WF:200:MET:HG3	2.50	0.46
45:WG:407:TRP:CE3	46:WH:255:VAL:HG12	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WH:420:SER:O	46:WH:424:GLN:HG2	2.14	0.46
45:WI:398:MET:CE	46:WJ:346:PRO:HD2	2.46	0.46
45:WK:253:THR:HG23	45:WK:254:GLU:HG3	1.97	0.46
45:WM:119:LEU:HB3	45:WM:123:ARG:NH1	2.30	0.46
1:0A:121:ALA:HB2	46:AB:224:ASP:OD1	2.15	0.46
6:0F:20:LEU:HD22	45:EE:362:VAL:HG13	1.97	0.46
1:1A:118:LYS:NZ	45:AC:357:TYR:OH	2.34	0.46
4:1D:85:VAL:HG21	46:EF:243:PRO:HB2	1.98	0.46
12:1T:126:LYS:NZ	45:AC:338:LYS:O	2.36	0.46
23:2O:373:ARG:CZ	45:VC:282:TYR:HB2	2.46	0.46
16:3B:59:PHE:CD2	45:LG:32:PRO:HB2	2.50	0.46
16:3B:63:GLN:HB2	45:LG:80:THR:HG23	1.98	0.46
35:4S:111:GLU:OE2	35:4S:113:GLU:HG3	2.16	0.46
15:4X:60:GLU:O	15:4X:63:GLU:HG3	2.15	0.46
15:4X:64:ARG:HD2	15:4X:68:ARG:HH21	1.80	0.46
36:5A:91:HIS:NE2	36:5A:94:MET:HB3	2.29	0.46
37:5F:209:ARG:NH2	45:LG:264:ARG:HD3	2.30	0.46
37:5G:213:TYR:CD2	46:LN:392:LYS:HG3	2.50	0.46
37:5H:44:ARG:HH12	45:OK:285:GLN:CD	2.18	0.46
35:5S:74:LEU:HD13	35:5S:76:ILE:HD11	1.97	0.46
40:6G:281:THR:H	40:6G:284:LYS:NZ	2.13	0.46
40:6G:287:VAL:HA	40:6G:290:GLN:HG2	1.98	0.46
10:6Q:70:GLY:HA2	10:6Q:150:GLU:OE2	2.15	0.46
34:6R:174:PHE:O	34:6R:175:GLU:HG2	2.15	0.46
46:AB:203:ASP:OD2	46:AB:205:GLU:HB2	2.15	0.46
45:AI:115:VAL:O	45:AI:119:LEU:HG	2.15	0.46
45:AI:387:VAL:HG23	45:AI:388:PHE:CD2	2.51	0.46
46:AJ:201:VAL:HG23	46:AJ:301:CYS:SG	2.55	0.46
46:AL:148:GLY:O	46:AL:152:ILE:HG12	2.16	0.46
45:AM:397:LEU:HD21	46:AN:344:TRP:HA	1.97	0.46
45:BA:183:GLU:N	45:BA:184:PRO:HD2	2.30	0.46
46:BD:262:ARG:NH1	46:BD:421:GLU:OE2	2.49	0.46
46:BF:190:HIS:CD2	46:BF:411:ALA:HA	2.50	0.46
46:BF:217:LEU:HD12	46:BF:220:PRO:HD3	1.96	0.46
45:BG:175:PRO:HG3	45:BG:390:ARG:NH1	2.31	0.46
45:BI:407:TRP:HH2	46:BJ:254:ALA:HB1	1.79	0.46
46:BJ:318:ARG:HB2	46:BJ:364:ALA:HB3	1.97	0.46
46:CB:156:ARG:HH21	46:CB:164:MET:HB2	1.80	0.46
46:CD:68:LEU:HD12	46:CD:97:ALA:HB2	1.98	0.46
46:CD:107:THR:OG1	46:CD:108:GLU:OE1	2.33	0.46
46:CD:150:LEU:O	46:CD:154:LYS:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:175:VAL:HG22	46:CF:205:GLU:HB3	1.96	0.46
45:CG:242:LEU:HD21	45:CG:251:ASP:HA	1.97	0.46
45:CI:395:PHE:HZ	45:CI:418:PHE:HB3	1.81	0.46
46:CJ:375:GLN:OE1	46:CJ:423:GLN:HB3	2.15	0.46
46:DB:203:ASP:O	46:DB:207:LEU:HG	2.16	0.46
46:DD:309:ARG:HD3	46:DD:342:VAL:HA	1.98	0.46
46:DF:259:PRO:HA	45:DG:404:PHE:CD2	2.50	0.46
45:DI:175:PRO:HG3	45:DI:390:ARG:NH2	2.30	0.46
45:DK:289:ALA:O	45:DK:292:THR:HG22	2.16	0.46
46:DL:3:GLU:HB2	46:DL:62:ARG:NH1	2.30	0.46
46:EB:46:ARG:HH11	46:EB:46:ARG:HA	1.80	0.46
45:EI:241:SER:OG	45:EI:250:VAL:O	2.23	0.46
45:EI:268:MET:HB2	45:EI:379:SER:O	2.16	0.46
45:EM:238:LEU:N	45:EM:318:MET:HE1	2.31	0.46
45:FA:11:GLN:NE2	46:FB:247:ASN:OD1	2.49	0.46
45:FA:387:VAL:HG12	45:FA:390:ARG:CZ	2.45	0.46
46:FB:321:MET:HB3	46:FB:363:MET:HE2	1.98	0.46
45:FC:19:ALA:HA	45:FC:22:GLU:OE1	2.16	0.46
45:FC:111:GLY:O	45:FC:115:VAL:HG13	2.15	0.46
46:FD:21:TRP:CZ3	46:FD:63:ALA:HB2	2.50	0.46
45:FE:399:TYR:OH	45:FE:402:ARG:NH2	2.48	0.46
46:FH:173:PRO:HG2	46:FH:380:ARG:HE	1.79	0.46
45:GA:171:ILE:HG22	45:GA:204:LEU:HB2	1.98	0.46
45:GC:177:VAL:CG2	46:GD:331:LEU:HD11	2.46	0.46
46:GD:404:ASP:N	46:GD:407:GLU:OE2	2.26	0.46
45:GG:224:TYR:HE2	46:GH:323:THR:HG1	1.62	0.46
46:GH:222:TYR:O	46:GH:226:ASN:ND2	2.35	0.46
45:GI:27:GLU:HG3	45:GI:361:THR:HG21	1.98	0.46
45:GK:215:ARG:HA	45:GK:215:ARG:CZ	2.45	0.46
45:HA:179:THR:HG22	46:HB:350:LYS:HZ1	1.80	0.46
46:HB:28:HIS:NE2	46:HB:241:ARG:HD2	2.30	0.46
46:HB:207:LEU:HD13	46:HB:225:LEU:HB3	1.96	0.46
46:HJ:238:CYS:SG	46:HJ:239:CYS:N	2.87	0.46
46:HJ:383:GLU:HA	46:HJ:383:GLU:OE1	2.16	0.46
46:HL:395:LEU:O	46:HL:399:THR:HG23	2.16	0.46
45:HM:123:ARG:NH1	45:HM:161:TYR:OH	2.45	0.46
45:IA:88:HIS:HA	46:JB:281:TYR:HD1	1.81	0.46
45:IC:328:VAL:HG11	45:IC:353:VAL:HG21	1.97	0.46
46:ID:48:ASN:ND2	46:ID:48:ASN:O	2.47	0.46
46:IH:230:SER:HA	46:IH:233:MET:HG3	1.96	0.46
45:IK:251:ASP:OD1	45:IK:252:ILE:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IL:105:HIS:CD2	46:IL:150:LEU:HB2	2.51	0.46
45:JA:239:THR:HG23	45:JA:243:ARG:HH21	1.80	0.46
46:JB:309:ARG:NH2	46:JB:426:GLN:O	2.48	0.46
45:JC:192:HIS:NE2	45:JC:424:ASP:OD2	2.48	0.46
46:JJ:407:GLU:HA	46:JJ:410:GLU:OE1	2.15	0.46
46:JL:173:PRO:HB3	46:JL:384:GLN:HE22	1.81	0.46
46:KB:107:THR:OG1	46:KB:108:GLU:OE1	2.29	0.46
45:KI:265:ILE:O	45:KI:265:ILE:HG13	2.15	0.46
46:LB:51:TYR:HB3	46:LB:59:TYR:HB3	1.98	0.46
46:LD:9:GLY:HA2	46:LD:66:MET:O	2.16	0.46
45:LG:288:VAL:HA	45:LG:291:ILE:HG12	1.98	0.46
46:LJ:233:MET:O	46:LJ:236:VAL:HG12	2.16	0.46
46:LL:233:MET:O	46:LL:236:VAL:HG12	2.15	0.46
46:LL:298:ASN:HD22	46:LL:298:ASN:C	2.18	0.46
46:MB:99:ASN:HA	46:MB:142:GLY:H	1.80	0.46
46:MB:118:ASP:CG	46:MB:122:LYS:HZ3	2.18	0.46
46:MB:132:GLY:HA3	46:MB:163:ILE:HG22	1.96	0.46
45:MC:319:TYR:HB3	45:MC:323:VAL:HG11	1.97	0.46
45:ME:102:ASN:ND2	45:ME:105:ARG:HG3	2.31	0.46
45:MG:311:LYS:N	45:MG:382:THR:OG1	2.49	0.46
45:MI:46:ASP:HB3	45:MI:47:ASP:H	1.58	0.46
45:MI:262:TYR:OH	46:ML:391:ARG:O	2.33	0.46
46:MJ:99:ASN:ND2	49:MJ:501:GDP:O2A	2.44	0.46
45:NA:120:ASP:O	45:NA:123:ARG:HG2	2.15	0.46
46:NB:25:SER:OG	46:NB:30:ILE:O	2.32	0.46
46:NB:204:ASN:OD1	46:NB:205:GLU:N	2.48	0.46
46:ND:152:ILE:HA	46:ND:155:VAL:HG22	1.98	0.46
46:ND:190:HIS:CD2	46:ND:414:ASN:HD22	2.34	0.46
46:ND:318:ARG:HD2	46:ND:354:CYS:HB3	1.97	0.46
45:NE:276:ILE:HG21	45:NE:283:HIS:CE1	2.51	0.46
46:NF:3:GLU:H	46:NF:3:GLU:CD	2.19	0.46
45:NI:331:SER:O	45:NI:335:ILE:HG12	2.16	0.46
46:NJ:116:VAL:HA	46:NJ:119:VAL:HG12	1.98	0.46
46:NL:22:GLU:HA	46:NL:81:PHE:CD1	2.50	0.46
46:OD:20:PHE:CD1	46:OD:233:MET:HE3	2.51	0.46
46:OH:118:ASP:O	46:OH:121:ARG:HG2	2.16	0.46
46:OJ:207:LEU:HB3	46:OJ:225:LEU:HD22	1.96	0.46
46:OL:11:GLN:O	46:OL:15:GLN:HG2	2.16	0.46
46:PB:73:MET:HE3	46:PB:92:PHE:HB3	1.98	0.46
45:PE:205:ASP:OD2	45:PE:303:ALA:HA	2.15	0.46
45:PE:222:PRO:O	46:PF:322:SER:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PI:90:GLU:HG3	45:QI:280:LYS:NZ	2.30	0.46
45:PK:171:ILE:HG23	45:PK:204:LEU:O	2.16	0.46
45:PM:226:ASN:OD1	45:PM:227:LEU:N	2.49	0.46
46:PN:190:HIS:O	46:PN:193:VAL:HG12	2.15	0.46
45:QA:184:PRO:O	45:QA:188:ILE:HG12	2.15	0.46
46:QB:105:HIS:CD2	46:QB:150:LEU:HD23	2.50	0.46
46:QB:154:LYS:HA	46:QB:157:GLU:OE1	2.16	0.46
45:QC:326:LYS:HZ3	46:QD:220:PRO:C	2.18	0.46
45:QE:21:TRP:CZ2	45:QE:65:ALA:HB2	2.50	0.46
45:QG:304:LYS:HA	45:QG:304:LYS:HE2	1.96	0.46
45:QK:211:ASP:HA	45:QK:214:ARG:HG2	1.97	0.46
45:QK:277:SER:H	45:QK:280:LYS:HZ3	1.63	0.46
46:QL:383:GLU:HA	46:QL:386:THR:HG22	1.98	0.46
45:QM:88:HIS:O	45:QM:91:GLN:HG2	2.16	0.46
46:RD:207:LEU:HD13	46:RD:225:LEU:HB3	1.96	0.46
46:RF:258:ILE:HG13	46:RF:258:ILE:O	2.15	0.46
45:RG:320:ARG:HH22	45:RG:360:PRO:HA	1.80	0.46
46:RH:327:ASP:HA	46:RH:330:MET:HE3	1.96	0.46
45:RI:141:VAL:HG11	45:RI:172:TYR:HA	1.98	0.46
46:RJ:10:GLY:O	46:RJ:14:ASN:ND2	2.48	0.46
45:RK:49:PHE:HB2	45:RK:53:PHE:CD1	2.51	0.46
46:RL:346:PRO:HD3	45:RM:397:LEU:HD22	1.98	0.46
45:RM:280:LYS:HZ2	45:RM:283:HIS:HB3	1.80	0.46
46:RN:86:ARG:NE	46:RN:87:PRO:HD2	2.30	0.46
46:RN:167:PHE:CZ	46:RN:233:MET:HG3	2.50	0.46
45:SA:413:MET:HB3	45:SA:413:MET:HE2	1.90	0.46
46:SB:345:ILE:HG22	46:SB:348:ASN:HB3	1.98	0.46
46:SF:67:ASP:OD1	46:SF:68:LEU:N	2.48	0.46
46:SF:407:GLU:HA	46:SF:410:GLU:HG2	1.98	0.46
46:SH:399:THR:HA	46:SH:403:MET:O	2.16	0.46
45:SI:205:ASP:OD1	45:SI:303:ALA:HA	2.14	0.46
46:SL:33:THR:HG23	46:SL:35:THR:HG23	1.97	0.46
46:SL:46:ARG:NH2	45:SM:73:THR:HA	2.31	0.46
46:SL:324:LYS:NZ	45:SM:210:TYR:HB3	2.30	0.46
45:TA:288:VAL:HA	45:TA:291:ILE:HG12	1.98	0.46
46:TB:239:CYS:HB3	46:TB:354:CYS:HB2	1.98	0.46
46:TB:261:PRO:HD3	45:TC:406:HIS:NE2	2.29	0.46
46:TD:347:ASN:O	45:TE:181:VAL:HG12	2.16	0.46
45:TE:417:GLU:OE1	45:TE:417:GLU:N	2.48	0.46
46:TF:269:GLY:HA2	46:TF:300:MET:HG2	1.97	0.46
45:TI:19:ALA:HA	45:TI:22:GLU:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TI:401:LYS:HB2	45:TI:401:LYS:HE3	1.78	0.46
46:TL:269:GLY:HA2	46:TL:300:MET:CE	2.45	0.46
46:TL:341:PHE:HB3	46:TL:348:ASN:HD21	1.79	0.46
45:TM:71:GLU:OE2	45:TM:73:THR:OG1	2.24	0.46
45:TM:187:SER:O	45:TM:191:THR:HG23	2.15	0.46
45:TM:315:CYS:SG	45:TM:379:SER:OG	2.70	0.46
46:UB:324:LYS:HZ2	45:UC:221:ARG:HA	1.79	0.46
45:UE:60:LYS:NZ	45:UE:86:LEU:HA	2.30	0.46
46:UJ:86:ARG:HH21	46:UJ:87:PRO:CG	2.27	0.46
45:UK:194:LEU:HB2	45:UK:198:THR:OG1	2.15	0.46
45:UM:83:TYR:H	45:UM:84:ARG:HH11	1.62	0.46
45:UM:340:THR:HG23	45:UM:341:ILE:HG13	1.98	0.46
46:UN:67:ASP:O	46:UN:92:PHE:HA	2.15	0.46
45:VE:22:GLU:OE1	45:VE:83:TYR:OH	2.29	0.46
46:VF:254:ALA:O	46:VF:258:ILE:HG12	2.16	0.46
45:VG:288:VAL:HA	45:VG:291:ILE:HG22	1.97	0.46
45:VK:179:THR:HG21	46:VL:246:LEU:HD22	1.97	0.46
45:WA:268:MET:CE	45:WA:378:ILE:HG22	2.45	0.46
45:WI:331:SER:O	45:WI:335:ILE:HG12	2.15	0.46
46:WL:310:TYR:CD1	46:WL:371:SER:HB2	2.50	0.46
45:CE:212:ILE:HD11	45:CE:300:ASN:HA	1.97	0.46
8:1H:108:GLU:HG2	46:GL:56:GLY:H	1.80	0.46
19:1J:140:PHE:HE1	45:IE:282:TYR:CZ	2.33	0.46
26:1W:85:ILE:HD13	45:LE:282:TYR:CD1	2.50	0.46
25:2R:382:TYR:HA	46:EH:276:ARG:HH12	1.80	0.46
11:3S:261:LEU:HD13	46:AN:424:GLN:HG3	1.96	0.46
36:5A:31:SER:H	36:5A:36:ARG:NH2	2.13	0.46
36:5C:161:ILE:O	36:5C:165:LYS:HG2	2.16	0.46
37:5E:213:TYR:HA	37:5E:216:LYS:HD3	1.96	0.46
37:5F:144:LEU:O	37:5F:147:GLN:HG3	2.15	0.46
37:5G:67:ARG:NH1	37:5G:68:PRO:O	2.48	0.46
37:5H:40:TYR:HB3	37:5H:42:TYR:HE1	1.80	0.46
10:5Q:10:PHE:HE1	10:5Q:172:TYR:HD2	1.63	0.46
10:6Q:22:LEU:HD12	10:6Q:22:LEU:O	2.15	0.46
34:6R:231:TYR:HA	34:6R:234:VAL:HG22	1.97	0.46
44:8R:125:TYR:CD1	45:PI:279:GLU:HA	2.50	0.46
46:AD:372:THR:HA	46:AD:422:TYR:HE1	1.79	0.46
46:AF:202:ILE:HD11	46:AF:268:ILE:HD11	1.97	0.46
45:AI:317:MET:HE2	45:AI:319:TYR:CE1	2.50	0.46
45:BC:72:PRO:HG2	46:BD:1:MET:SD	2.56	0.46
45:BE:100:ALA:HA	46:BF:252:LYS:HE2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BF:22:GLU:HG2	46:BF:81:PHE:CD1	2.51	0.46
45:BG:199:ASP:OD2	45:BG:256:GLN:NE2	2.49	0.46
45:BG:352:LYS:HD2	45:BG:353:VAL:H	1.81	0.46
45:BK:181:VAL:HG13	45:BK:182:VAL:HG13	1.97	0.46
45:BK:317:MET:HB3	45:BK:319:TYR:CE1	2.50	0.46
45:BM:1:MET:O	45:BM:131:GLY:HA3	2.15	0.46
45:BM:240:ALA:HB1	45:BM:358:GLN:OE1	2.15	0.46
45:CC:47:ASP:OD1	45:CC:48:ALA:N	2.48	0.46
45:CC:116:ASP:O	45:CC:119:LEU:HG	2.16	0.46
46:CD:181:GLU:HB2	46:CD:182:PRO:HD3	1.97	0.46
46:CF:344:TRP:CE3	46:CF:345:ILE:HG23	2.51	0.46
45:CG:183:GLU:N	45:CG:184:PRO:HD2	2.31	0.46
45:CI:3:GLU:HG2	45:CI:132:LEU:HA	1.96	0.46
46:CL:2:ARG:HB2	46:CL:131:GLN:HB2	1.97	0.46
45:CM:140:SER:OG	47:CM:501:GTP:O2B	2.34	0.46
45:DG:90:GLU:OE1	45:EG:280:LYS:NZ	2.36	0.46
46:DH:11:GLN:HA	46:DH:14:ASN:HD22	1.81	0.46
45:DI:107:HIS:HA	45:DI:152:LEU:HD11	1.97	0.46
46:DJ:19:LYS:HE2	46:DJ:227:HIS:HB2	1.97	0.46
45:DK:252:ILE:HA	45:DK:255:PHE:HE2	1.81	0.46
46:DL:213:ARG:NH1	46:DL:297:LYS:HB3	2.30	0.46
46:DL:317:PHE:CD2	46:DL:365:VAL:HG22	2.51	0.46
45:DM:346:TRP:CD1	46:DN:391:ARG:HG3	2.50	0.46
46:ED:289:LEU:HD11	46:ED:363:MET:HB3	1.97	0.46
45:EG:288:VAL:HG11	45:EG:327:ASP:HB3	1.97	0.46
45:EM:195:LEU:HD21	45:EM:428:LEU:HD21	1.98	0.46
45:EM:326:LYS:NZ	46:EN:205:GLU:OE1	2.41	0.46
46:EN:182:PRO:HD2	46:EN:183:TYR:N	2.24	0.46
45:FC:209:ILE:HD11	45:FC:230:LEU:HD12	1.96	0.46
45:FG:68:LEU:HD13	45:FG:93:ILE:HB	1.98	0.46
46:FL:178:THR:HG22	46:FL:180:VAL:H	1.80	0.46
45:FM:319:TYR:HE1	45:FM:353:VAL:HG23	1.81	0.46
45:GA:356:ASN:OD1	45:GA:357:TYR:N	2.46	0.46
45:GE:104:ALA:HB1	45:GE:411:GLU:OE1	2.15	0.46
45:GE:164:LYS:O	45:GE:166:LYS:NZ	2.49	0.46
46:GF:203:ASP:OD2	46:GF:205:GLU:HB2	2.16	0.46
45:GG:175:PRO:HG2	45:GG:304:LYS:HG2	1.97	0.46
45:GG:296:PHE:CE2	45:GG:335:ILE:HG21	2.51	0.46
45:HA:331:SER:O	45:HA:335:ILE:HG12	2.15	0.46
45:HI:195:LEU:HD21	45:HI:264:ARG:HH21	1.79	0.46
45:IC:121:ARG:HA	45:IC:121:ARG:HE	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IE:237:SER:HA	45:IE:320:ARG:NH2	2.31	0.46
45:IG:340:THR:HG23	45:IG:341:ILE:HG23	1.97	0.46
45:IG:399:TYR:O	45:IG:402:ARG:NH1	2.48	0.46
45:II:100:ALA:HA	46:IJ:252:LYS:HE3	1.98	0.46
46:IL:273:LEU:N	46:IL:292:GLN:OE1	2.42	0.46
45:IM:152:LEU:O	45:IM:155:GLU:HG3	2.15	0.46
45:JA:384:ILE:O	45:JA:387:VAL:HG22	2.16	0.46
45:JC:141:VAL:HG23	45:JC:190:SER:HB3	1.98	0.46
45:JC:352:LYS:NZ	46:JF:178:THR:HG22	2.31	0.46
45:JG:346:TRP:CG	46:JJ:391:ARG:NH1	2.83	0.46
45:JK:191:THR:HA	45:JK:194:LEU:HG	1.97	0.46
45:JK:317:MET:HB3	45:JK:377:MET:SD	2.55	0.46
45:KA:116:ASP:N	45:KA:116:ASP:OD1	2.46	0.46
45:KA:183:GLU:N	45:KA:184:PRO:HD2	2.30	0.46
46:KF:198:GLU:HB3	46:KF:266:PHE:HE2	1.80	0.46
45:KG:31:GLN:HG3	45:KG:33:ASP:OD1	2.16	0.46
45:KG:184:PRO:HG2	45:KG:398:MET:HE1	1.98	0.46
45:KG:326:LYS:HA	45:KG:326:LYS:HD3	1.56	0.46
45:KK:7:ILE:HB	45:KK:137:VAL:HG12	1.97	0.46
46:KL:6:HIS:HE1	46:KL:8:GLN:HB3	1.80	0.46
46:KL:101:TRP:HB2	46:KL:184:ASN:HB3	1.97	0.46
45:KM:288:VAL:HA	45:KM:291:ILE:HG12	1.97	0.46
45:LA:210:TYR:CE1	45:LA:227:LEU:HD11	2.51	0.46
47:LA:501:GTP:H8	47:LA:501:GTP:O2A	1.99	0.46
46:LD:52:ASN:OD1	46:LD:62:ARG:NH2	2.49	0.46
46:LF:19:LYS:O	46:LF:22:GLU:HG3	2.14	0.46
46:LL:286:VAL:HG23	46:LL:287:PRO:HD3	1.97	0.46
45:MA:75:ILE:HA	45:MA:78:VAL:HG12	1.97	0.46
45:MA:102:ASN:OD1	45:MA:105:ARG:N	2.40	0.46
46:MB:391:ARG:HA	46:MB:391:ARG:HD2	1.76	0.46
45:ME:223:THR:HG22	45:ME:224:TYR:N	2.31	0.46
46:MH:139:LEU:HD12	46:MH:188:SER:OG	2.16	0.46
45:MI:46:ASP:O	45:MI:47:ASP:OD1	2.34	0.46
45:MI:93:ILE:HG22	45:MI:114:ILE:HD11	1.98	0.46
45:NA:71:GLU:OE2	45:NA:73:THR:OG1	2.28	0.46
45:NA:140:SER:HA	45:NA:171:ILE:HB	1.98	0.46
46:ND:154:LYS:NZ	46:ND:154:LYS:HB2	2.30	0.46
45:NE:11:GLN:HG3	45:NE:74:VAL:HG11	1.98	0.46
45:NI:116:ASP:OD1	45:NI:117:LEU:N	2.48	0.46
45:NK:188:ILE:HG12	45:NK:421:ALA:HB1	1.98	0.46
45:NK:195:LEU:HD21	45:NK:264:ARG:HE	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NK:326:LYS:HD3	46:NN:220:PRO:HD2	1.96	0.46
45:OC:115:VAL:HG11	45:OC:152:LEU:HD23	1.97	0.46
46:OF:332:ASN:O	46:OF:336:LYS:HG3	2.15	0.46
45:OG:31:GLN:NE2	45:OG:35:GLN:O	2.48	0.46
45:OG:398:MET:SD	46:OH:345:ILE:HG22	2.56	0.46
46:OJ:52:ASN:OD1	46:OJ:62:ARG:NH2	2.49	0.46
45:OK:175:PRO:HG3	45:OK:390:ARG:NE	2.31	0.46
45:OM:221:ARG:HH21	46:ON:322:SER:HG	1.58	0.46
46:ON:24:ILE:HG23	46:ON:28:HIS:CE1	2.50	0.46
46:ON:145:SER:HB3	46:ON:188:SER:HB3	1.97	0.46
45:PA:80:THR:HA	45:PA:84:ARG:HH21	1.81	0.46
45:PA:100:ALA:HA	46:PB:252:LYS:HE2	1.98	0.46
45:PE:434:GLU:O	45:PE:437:ILE:HG12	2.15	0.46
45:PI:387:VAL:HA	45:PI:390:ARG:HE	1.80	0.46
46:PJ:47:ILE:HD12	46:PJ:59:TYR:CE1	2.50	0.46
45:PK:211:ASP:HA	45:PK:214:ARG:HG2	1.97	0.46
45:PM:171:ILE:HG13	45:PM:171:ILE:O	2.16	0.46
46:PN:344:TRP:CD1	46:PN:345:ILE:HG23	2.51	0.46
46:QB:67:ASP:OD1	46:QB:68:LEU:N	2.47	0.46
45:QC:305:CYS:SG	45:QC:306:ASP:N	2.89	0.46
46:QD:65:LEU:HD22	46:QD:90:PHE:CE1	2.51	0.46
45:QE:261:PRO:HA	46:QF:394:PHE:HD1	1.80	0.46
45:QE:319:TYR:HB3	45:QE:323:VAL:HG11	1.96	0.46
45:QG:251:ASP:OD1	45:QG:252:ILE:N	2.48	0.46
46:QJ:153:SER:HA	46:QJ:195:ASN:HD22	1.80	0.46
45:QK:184:PRO:O	45:QK:188:ILE:HG12	2.16	0.46
46:QL:28:HIS:HA	46:QL:43:GLN:CD	2.36	0.46
45:QM:401:LYS:HB2	45:QM:401:LYS:HE3	1.67	0.46
45:RA:188:ILE:HD11	45:RA:391:LEU:HB3	1.96	0.46
46:RB:100:ASN:HD22	46:RB:103:LYS:HB2	1.81	0.46
45:RE:10:GLY:O	45:RE:14:ILE:HG12	2.16	0.46
45:RG:312:TYR:CE2	45:RG:341:ILE:HG23	2.51	0.46
45:RK:319:TYR:HB3	45:RK:323:VAL:HG21	1.97	0.46
45:SE:118:CYS:O	45:SE:122:ILE:HG12	2.16	0.46
46:SF:181:GLU:HG3	46:SF:182:PRO:HD3	1.96	0.46
45:SG:260:VAL:HG13	45:SG:265:ILE:O	2.16	0.46
45:SI:21:TRP:CZ3	45:SI:63:PRO:HB3	2.51	0.46
46:SJ:3:GLU:HG3	46:SJ:62:ARG:NH1	2.30	0.46
46:SJ:183:TYR:HA	46:SJ:385:PHE:CE1	2.50	0.46
46:SJ:415:MET:O	46:SJ:419:VAL:HG23	2.15	0.46
46:SN:73:MET:HE3	46:SN:92:PHE:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TA:98:ASP:OD1	45:TA:99:ALA:N	2.48	0.46
45:TC:19:ALA:HA	45:TC:22:GLU:OE1	2.14	0.46
45:TC:188:ILE:HD12	45:TC:425:LEU:HD11	1.98	0.46
45:TC:318:MET:HB3	45:TC:376:CYS:SG	2.55	0.46
45:TC:419:SER:O	45:TC:423:GLU:OE1	2.34	0.46
45:TE:420:GLU:HA	45:TE:423:GLU:OE1	2.14	0.46
46:TH:293:MET:HE3	46:TH:367:PHE:HB3	1.98	0.46
45:TI:141:VAL:HG12	45:TI:171:ILE:O	2.16	0.46
46:TJ:255:VAL:O	45:TK:407:TRP:HZ3	1.98	0.46
45:TK:209:ILE:HA	45:TK:212:ILE:HG22	1.96	0.46
46:TL:246:LEU:HA	45:TM:11:GLN:HE22	1.80	0.46
45:TM:254:GLU:OE1	45:TM:258:ASN:ND2	2.49	0.46
45:UC:263:PRO:HD3	46:UD:396:HIS:CD2	2.50	0.46
46:UJ:275:SER:O	46:UJ:279:GLN:HG2	2.16	0.46
46:UJ:391:ARG:HA	46:UJ:391:ARG:HD2	1.75	0.46
45:UK:141:VAL:HG12	45:UK:171:ILE:O	2.16	0.46
46:UL:109:GLY:O	46:UL:113:ILE:HG23	2.15	0.46
45:VA:270:SER:O	45:VA:302:MET:HB2	2.16	0.46
45:VA:343:PHE:HZ	45:VA:351:PHE:HE1	1.63	0.46
46:VB:3:GLU:HB2	46:VB:62:ARG:HH22	1.80	0.46
45:VC:88:HIS:O	45:VC:91:GLN:HG2	2.15	0.46
46:VF:186:THR:HA	46:VF:189:VAL:HG12	1.96	0.46
45:WE:188:ILE:HG23	45:WE:425:LEU:HD11	1.96	0.46
45:WG:122:ILE:HD13	45:WG:125:LEU:HD21	1.98	0.46
45:WG:174:SER:HB2	45:WG:177:VAL:O	2.16	0.46
46:WL:6:HIS:O	46:WL:63:ALA:HA	2.15	0.46
46:WL:228:LEU:HD11	46:WL:273:LEU:HD21	1.96	0.46
45:CE:320:ARG:HB2	45:CE:358:GLN:O	2.15	0.46
45:DC:68:LEU:HD21	45:DC:118:CYS:SG	2.56	0.46
4:0D:171:LEU:HD23	45:EC:79:ARG:HH21	1.77	0.46
7:0G:46:LYS:HE3	45:JK:77:GLU:OE2	2.15	0.46
21:1L:282:LYS:HZ3	46:BH:355:ASP:HB3	1.81	0.46
21:1L:305:GLN:HE22	45:BG:279:GLU:HG3	1.80	0.46
21:1L:575:LYS:HZ3	45:AE:84:ARG:HE	1.63	0.46
24:1P:189:HIS:HB2	46:TH:362:LYS:NZ	2.30	0.46
25:1R:70:THR:HG22	46:MD:320:ARG:HE	1.80	0.46
4:2D:77:ASN:HB2	46:EJ:362:LYS:NZ	2.30	0.46
31:2I:32:PHE:CE1	45:GG:177:VAL:HG21	2.51	0.46
31:2I:75:SER:HG	45:FE:161:TYR:HH	1.61	0.46
20:2K:346:ILE:HD13	46:GJ:362:LYS:HB2	1.98	0.46
14:3V:133:TYR:CD2	46:LD:424:GLN:HG3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5F:28:SER:OG	37:5F:29:LYS:N	2.48	0.46
37:5G:45:PRO:C	37:5G:48:ARG:HH22	2.18	0.46
37:5H:149:ARG:HA	37:5H:152:GLN:HG2	1.97	0.46
40:6G:276:PRO:O	45:VA:215:ARG:NH1	2.48	0.46
45:AA:174:SER:HB2	45:AA:177:VAL:O	2.15	0.46
45:AC:237:SER:HA	45:AC:320:ARG:HH11	1.80	0.46
46:AH:28:HIS:C	46:AH:43:GLN:HE21	2.19	0.46
45:AK:285:GLN:OE1	45:MK:56:THR:HA	2.14	0.46
46:AL:105:HIS:CE1	46:AL:150:LEU:HD12	2.50	0.46
45:AM:212:ILE:HD11	45:AM:300:ASN:HA	1.97	0.46
46:BH:336:LYS:HD3	46:BH:336:LYS:N	2.30	0.46
45:BM:340:THR:HG23	45:BM:341:ILE:HG23	1.96	0.46
46:BN:73:MET:SD	46:BN:90:PHE:HD1	2.38	0.46
46:BN:77:ARG:NH1	46:BN:82:GLY:O	2.49	0.46
46:BN:262:ARG:NE	46:BN:421:GLU:OE2	2.32	0.46
45:CA:19:ALA:HA	45:CA:22:GLU:OE1	2.16	0.46
46:CB:154:LYS:HA	46:CB:154:LYS:HD3	1.78	0.46
45:CC:153:LEU:O	45:CC:157:LEU:HD23	2.16	0.46
46:CD:161:ASP:OD2	46:CD:162:ARG:NH1	2.42	0.46
46:CD:222:TYR:O	46:CD:226:ASN:ND2	2.26	0.46
45:CG:88:HIS:HB3	45:CG:91:GLN:HB2	1.98	0.46
45:CI:188:ILE:HD12	45:CI:425:LEU:HD11	1.95	0.46
46:CL:293:MET:SD	46:CL:365:VAL:HG11	2.56	0.46
45:CM:183:GLU:N	45:CM:184:PRO:HD2	2.31	0.46
45:DE:417:GLU:OE1	45:DE:417:GLU:N	2.41	0.46
45:DM:269:LEU:HD23	45:DM:379:SER:O	2.15	0.46
46:EF:58:ARG:NH1	46:FF:280:GLN:HE22	2.14	0.46
45:EG:349:THR:HG21	46:EH:181:GLU:OE2	2.16	0.46
45:EM:132:LEU:HD23	45:EM:164:LYS:HE2	1.98	0.46
45:EM:371:VAL:HG22	45:EM:373:ARG:H	1.80	0.46
45:FA:98:ASP:OD1	45:FA:99:ALA:N	2.48	0.46
45:FA:326:LYS:HG3	46:FD:220:PRO:HG2	1.98	0.46
46:FD:138:SER:HA	46:FD:169:VAL:HB	1.98	0.46
47:FE:501:GTP:O1G	46:FF:252:LYS:NZ	2.36	0.46
46:FJ:318:ARG:HD3	46:FJ:358:PRO:HD3	1.98	0.46
45:FK:81:GLY:O	45:FK:84:ARG:HG3	2.15	0.46
46:GJ:86:ARG:HD3	46:HJ:281:TYR:CE2	2.50	0.46
45:GK:68:LEU:HD13	45:GK:93:ILE:HB	1.97	0.46
46:GL:150:LEU:O	46:GL:154:LYS:HG2	2.16	0.46
46:HB:237:THR:O	46:HB:241:ARG:NH1	2.49	0.46
46:HF:132:GLY:HA3	46:HF:163:ILE:CG1	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HF:221:THR:O	46:HF:225:LEU:HD12	2.16	0.46
45:HG:98:ASP:OD1	45:HG:99:ALA:N	2.48	0.46
45:HG:222:PRO:HG2	46:HH:324:LYS:HD2	1.96	0.46
46:HH:156:ARG:NH1	46:HH:197:ASP:OD1	2.46	0.46
45:HI:328:VAL:O	45:HI:332:ILE:HG12	2.15	0.46
46:HJ:16:ILE:HD12	46:HJ:229:VAL:HG11	1.98	0.46
45:HK:210:TYR:HE1	46:HL:324:LYS:HB2	1.80	0.46
46:HN:396:HIS:CE1	46:HN:397:TRP:CD1	3.03	0.46
45:IA:263:PRO:HD3	46:ID:396:HIS:CE1	2.51	0.46
46:IB:260:PHE:HB2	46:IB:263:LEU:HD13	1.98	0.46
45:IC:172:TYR:OH	45:IC:191:THR:HG22	2.15	0.46
45:IC:183:GLU:N	45:IC:184:PRO:HD2	2.30	0.46
45:IG:207:GLU:HA	45:IG:210:TYR:CD2	2.50	0.46
45:IG:226:ASN:ND2	45:IG:367:ASP:OD2	2.49	0.46
46:IJ:6:HIS:CE1	46:IJ:8:GLN:NE2	2.84	0.46
45:IK:60:LYS:NZ	45:IK:85:GLN:O	2.47	0.46
46:IN:163:ILE:HD11	46:IN:251:ARG:HA	1.97	0.46
46:JB:65:LEU:HD12	46:JB:90:PHE:CE1	2.51	0.46
46:JB:372:THR:O	46:JB:375:GLN:HG2	2.16	0.46
45:JC:31:GLN:OE1	45:JC:37:PRO:HD3	2.16	0.46
45:JC:98:ASP:OD2	45:JC:99:ALA:N	2.48	0.46
45:JG:278:ALA:HA	45:JG:369:ALA:HB2	1.97	0.46
45:JI:260:VAL:HG23	45:JI:265:ILE:O	2.16	0.46
46:JJ:186:THR:HG23	46:JJ:187:LEU:HD22	1.98	0.46
45:JM:96:LYS:HD2	45:JM:96:LYS:HA	1.71	0.46
46:KF:67:ASP:OD1	46:KF:68:LEU:N	2.45	0.46
46:KH:313:ALA:HB1	46:KH:367:PHE:HE1	1.81	0.46
45:KI:10:GLY:O	45:KI:14:ILE:HG12	2.16	0.46
45:KM:187:SER:O	45:KM:191:THR:HG23	2.15	0.46
46:KN:372:THR:HG21	46:KN:426:GLN:HB3	1.97	0.46
46:LB:63:ALA:O	46:LB:89:ASN:ND2	2.46	0.46
45:MA:393:HIS:HA	45:MA:396:ASP:OD2	2.15	0.46
46:MB:16:ILE:HD12	46:MB:229:VAL:HG11	1.97	0.46
46:MD:66:MET:HE3	46:MD:116:VAL:HG21	1.96	0.46
45:MK:105:ARG:HD2	46:ML:251:ARG:HH21	1.80	0.46
46:NB:156:ARG:NE	46:NB:195:ASN:HA	2.30	0.46
45:NC:169:PHE:CD1	45:NC:202:VAL:HG21	2.51	0.46
45:NE:298:PRO:HG3	45:NE:308:ARG:NE	2.29	0.46
45:NE:320:ARG:HG3	45:NE:360:PRO:HG3	1.98	0.46
46:NF:7:ILE:HD11	46:NF:66:MET:HG2	1.98	0.46
46:NJ:342:VAL:HG13	46:NJ:345:ILE:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NK:210:TYR:CE1	45:NK:227:LEU:HD21	2.49	0.46
45:NM:177:VAL:HG12	45:NM:207:GLU:OE1	2.15	0.46
45:NM:223:THR:HG22	45:NM:224:TYR:N	2.30	0.46
45:NM:284:GLU:CD	45:NM:286:LEU:H	2.18	0.46
45:OA:206:ASN:OD1	45:OA:207:GLU:N	2.48	0.46
45:OA:210:TYR:HB3	45:OA:214:ARG:HH12	1.81	0.46
45:OC:202:VAL:HG12	45:OC:204:LEU:HG	1.97	0.46
46:OD:58:ARG:NH2	46:OD:84:LEU:HA	2.30	0.46
46:OF:344:TRP:CE3	46:OF:345:ILE:HG23	2.51	0.46
45:OG:178:SER:HB2	46:OH:347:ASN:ND2	2.30	0.46
45:OG:202:VAL:HG12	45:OG:204:LEU:HG	1.97	0.46
46:OH:2:ARG:HG2	46:OH:131:GLN:HG3	1.98	0.46
45:OI:8:HIS:HB2	45:OI:67:PHE:HD1	1.80	0.46
45:OM:10:GLY:O	45:OM:14:ILE:HG12	2.15	0.46
45:OM:88:HIS:ND1	45:OM:90:GLU:HG3	2.30	0.46
45:PA:181:VAL:HG12	46:PB:347:ASN:O	2.15	0.46
45:PC:384:ILE:O	45:PC:387:VAL:HG22	2.16	0.46
45:PE:258:ASN:ND2	45:PE:352:LYS:HE3	2.30	0.46
46:PF:183:TYR:HB3	46:PF:398:TYR:HE2	1.81	0.46
46:PH:184:ASN:OD1	46:PH:185:ALA:N	2.48	0.46
46:PH:238:CYS:SG	46:PH:239:CYS:N	2.89	0.46
45:PI:426:ALA:O	45:PI:429:GLU:HG3	2.16	0.46
46:PJ:4:ILE:HG13	46:PJ:132:GLY:O	2.16	0.46
46:PL:333:VAL:HA	46:PL:336:LYS:HG2	1.98	0.46
46:PL:391:ARG:HA	46:PL:391:ARG:HD2	1.72	0.46
45:QC:167:LEU:HD13	45:QC:200:VAL:HB	1.98	0.46
46:QF:341:PHE:HD2	46:QF:348:ASN:HD21	1.64	0.46
46:QH:167:PHE:CE2	46:QH:233:MET:HG3	2.51	0.46
45:QM:141:VAL:HG11	45:QM:172:TYR:CD1	2.47	0.46
46:RD:101:TRP:HB2	46:RD:184:ASN:HB3	1.97	0.46
45:RE:352:LYS:NZ	45:RE:353:VAL:O	2.49	0.46
46:RF:73:MET:N	46:RF:73:MET:SD	2.88	0.46
45:RG:56:THR:HG23	45:RG:58:ALA:H	1.81	0.46
45:RI:174:SER:HB3	45:RI:207:GLU:OE2	2.16	0.46
45:SG:171:ILE:HG23	45:SG:204:LEU:O	2.16	0.46
45:SI:208:ALA:O	45:SI:212:ILE:HG12	2.16	0.46
46:SJ:253:LEU:O	46:SJ:257:LEU:HD23	2.14	0.46
45:SK:254:GLU:OE2	45:SK:258:ASN:ND2	2.48	0.46
45:SM:75:ILE:HG22	45:SM:79:ARG:NE	2.28	0.46
46:TD:178:THR:N	46:TD:181:GLU:OE2	2.44	0.46
45:TI:171:ILE:HG23	45:TI:204:LEU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TK:82:THR:HA	45:TK:84:ARG:NH1	2.31	0.46
45:TK:132:LEU:HG	45:TK:164:LYS:HE2	1.98	0.46
46:TL:252:LYS:NZ	45:TM:98:ASP:OD2	2.48	0.46
46:TL:260:PHE:HB2	46:TL:263:LEU:HD23	1.96	0.46
45:TM:68:LEU:HD13	45:TM:93:ILE:HB	1.98	0.46
46:TN:186:THR:HA	46:TN:415:MET:HE1	1.97	0.46
46:UB:184:ASN:OD1	46:UB:185:ALA:N	2.49	0.46
45:UE:60:LYS:HZ1	45:UE:86:LEU:HA	1.80	0.46
46:UF:310:TYR:CD1	46:UF:371:SER:HB2	2.50	0.46
45:UI:324:VAL:HG12	45:UI:326:LYS:HG2	1.97	0.46
46:UJ:287:PRO:O	46:UJ:290:THR:HG22	2.15	0.46
46:UJ:310:TYR:CD1	46:UJ:371:SER:HB2	2.50	0.46
45:UM:231:ILE:O	45:UM:235:ILE:HG12	2.15	0.46
46:VB:196:ALA:HB3	46:VB:264:HIS:HE1	1.81	0.46
46:VB:248:SER:HA	46:VB:252:LYS:HD2	1.98	0.46
46:VB:344:TRP:HE3	46:VB:345:ILE:HG23	1.79	0.46
46:VF:240:LEU:HD21	46:VF:249:ASP:HA	1.97	0.46
45:VG:121:ARG:HD2	45:VG:124:LYS:HZ3	1.79	0.46
46:VH:164:MET:HE1	46:VH:196:ALA:HA	1.98	0.46
45:VI:414:GLU:OE2	45:VI:417:GLU:N	2.47	0.46
46:VJ:318:ARG:O	46:VJ:363:MET:HA	2.15	0.46
45:WA:133:GLN:HA	45:WA:133:GLN:NE2	2.31	0.46
45:WA:414:GLU:CD	45:WA:416:GLY:H	2.19	0.46
46:WB:317:PHE:CD1	46:WB:365:VAL:HG22	2.51	0.46
45:WE:206:ASN:HB3	45:WE:210:TYR:CZ	2.51	0.46
46:WF:226:ASN:HD21	49:WF:501:GDP:HN1	1.63	0.46
45:WG:208:ALA:N	45:WG:304:LYS:HD3	2.31	0.46
45:WG:261:PRO:HA	46:WJ:394:PHE:CD2	2.50	0.46
46:WH:210:ILE:HD11	46:WH:299:MET:O	2.15	0.46
46:WH:268:ILE:HG13	46:WH:300:MET:HG3	1.97	0.46
46:WH:377:MET:HA	46:WH:380:ARG:HG2	1.97	0.46
45:WI:68:LEU:HD21	45:WI:118:CYS:SG	2.55	0.46
46:WL:121:ARG:HG2	46:WL:125:GLU:OE1	2.15	0.46
45:WM:189:LEU:HD21	45:WM:418:PHE:CD1	2.50	0.46
46:WN:7:ILE:HG13	46:WN:64:ILE:HD13	1.96	0.46
45:DC:319:TYR:CE2	45:DC:328:VAL:HG22	2.50	0.46
4:0D:169:THR:O	45:EC:84:ARG:NH2	2.48	0.46
4:1D:174:TYR:OH	46:EF:45:GLU:OE1	2.30	0.46
11:2S:20:ASN:ND2	46:WJ:74:ASP:OD1	2.39	0.46
33:4F:23:LYS:HA	45:HI:225:THR:HG21	1.97	0.46
33:4F:193:LYS:NZ	45:IM:220:GLU:H	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4Q:53:ASN:ND2	45:AI:396:ASP:OD1	2.48	0.46
35:4S:92:GLU:HG3	35:4S:94:GLU:OE1	2.15	0.46
36:5B:27:LYS:NZ	36:5B:31:SER:OG	2.49	0.46
37:5E:123:ARG:HA	45:OA:370:LYS:HD2	1.97	0.46
37:5H:60:TRP:CZ3	46:ON:279:GLN:HG2	2.50	0.46
37:5H:96:TYR:O	37:5H:100:VAL:HG22	2.15	0.46
41:6H:200:GLN:NE2	41:6H:201:ILE:HG23	2.30	0.46
34:7R:253:ARG:HH11	45:CA:42:ILE:HD11	1.81	0.46
34:7R:397:SER:OG	46:EB:276:ARG:NE	2.28	0.46
46:AD:257:LEU:O	46:AD:259:PRO:HD3	2.16	0.46
46:AF:91:VAL:HG21	46:AF:116:VAL:HB	1.98	0.46
45:AG:322:ASP:OD1	45:AG:373:ARG:NH1	2.48	0.46
45:AK:100:ALA:O	46:AL:255:VAL:HG11	2.16	0.46
45:AM:338:LYS:HZ2	45:AM:339:ARG:H	1.61	0.46
45:BA:36:MET:SD	45:BA:37:PRO:HD2	2.56	0.46
45:BA:394:LYS:HE2	46:BB:346:PRO:HG2	1.98	0.46
45:BC:88:HIS:CD2	45:CC:280:LYS:NZ	2.84	0.46
45:BE:178:SER:HB2	45:BE:183:GLU:OE1	2.15	0.46
45:BE:268:MET:HG3	45:BE:380:ASN:HB2	1.98	0.46
46:BH:105:HIS:CD2	46:BH:150:LEU:HB2	2.49	0.46
46:BH:217:LEU:HG	46:BH:220:PRO:HD3	1.98	0.46
46:BH:380:ARG:O	46:BH:384:GLN:HG3	2.16	0.46
46:BL:245:GLN:NE2	46:BL:245:GLN:CA	2.79	0.46
45:BM:265:ILE:HG22	45:BM:432:TYR:HE1	1.81	0.46
45:BM:294:SER:O	45:BM:297:GLU:HG2	2.15	0.46
45:CA:141:VAL:HG11	45:CA:172:TYR:CD1	2.50	0.46
46:CB:252:LYS:HA	45:CC:100:ALA:HB1	1.97	0.46
45:CC:427:ALA:HA	45:CC:430:LYS:NZ	2.30	0.46
46:CH:238:CYS:SG	46:CH:239:CYS:N	2.89	0.46
46:CL:372:THR:HA	46:CL:422:TYR:CE2	2.51	0.46
46:DB:167:PHE:CD2	46:DB:200:MET:HB2	2.50	0.46
46:DD:11:GLN:HB3	46:DD:72:THR:HG21	1.97	0.46
45:DE:326:LYS:HG3	45:DE:327:ASP:H	1.80	0.46
45:DG:39:ASP:N	45:DG:39:ASP:OD1	2.48	0.46
45:DG:399:TYR:CE1	45:DG:418:PHE:HD2	2.34	0.46
46:DH:116:VAL:HA	46:DH:119:VAL:HG22	1.98	0.46
46:DL:317:PHE:HE1	46:DL:326:VAL:HG13	1.80	0.46
46:DN:268:ILE:HG22	46:DN:368:VAL:HG22	1.97	0.46
45:EA:272:TYR:HD1	45:EA:376:CYS:HB2	1.81	0.46
46:EB:320:ARG:HD3	46:EB:320:ARG:H	1.79	0.46
46:EF:318:ARG:HH11	46:EF:358:PRO:HG3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EH:8:GLN:NE2	46:EH:65:LEU:HG	2.31	0.46
46:EH:172:SER:OG	46:EH:175:VAL:HG22	2.16	0.46
46:EL:345:ILE:HD13	45:EM:398:MET:SD	2.56	0.46
46:FD:119:VAL:HA	46:FD:122:LYS:HE2	1.98	0.46
46:FD:414:ASN:O	46:FD:418:LEU:HD23	2.16	0.46
45:FE:68:LEU:HD11	45:FE:118:CYS:SG	2.55	0.46
45:FE:431:ASP:O	45:FE:434:GLU:HG3	2.16	0.46
45:FM:4:VAL:HG13	45:FM:52:PHE:CE1	2.50	0.46
46:GB:309:ARG:NE	46:GB:309:ARG:HA	2.30	0.46
46:GD:21:TRP:CD1	46:GD:85:PHE:HZ	2.34	0.46
46:GD:372:THR:HA	46:GD:422:TYR:CE2	2.45	0.46
45:GG:123:ARG:HH22	45:GG:124:LYS:HB2	1.81	0.46
45:GI:102:ASN:ND2	45:GI:411:GLU:HG3	2.30	0.46
45:GI:184:PRO:O	45:GI:188:ILE:HG12	2.15	0.46
46:GJ:263:LEU:HD22	46:GJ:422:TYR:CD1	2.47	0.46
45:HA:69:ASP:OD1	45:HA:70:LEU:N	2.48	0.46
45:HC:258:ASN:ND2	45:HC:352:LYS:HE3	2.31	0.46
46:HF:156:ARG:NH1	46:HF:195:ASN:O	2.45	0.46
45:HI:408:TYR:O	45:HI:413:MET:HB3	2.16	0.46
46:HJ:166:THR:HG21	46:HJ:192:LEU:HD11	1.97	0.46
45:IA:8:HIS:HB2	45:IA:67:PHE:HD2	1.80	0.46
46:ID:285:THR:O	46:ID:288:GLU:HG3	2.15	0.46
45:IE:216:ASN:HB3	45:IE:275:ILE:O	2.16	0.46
46:IH:204:ASN:OD1	49:IH:501:GDP:O2'	2.33	0.46
45:JA:217:LEU:HB3	45:JA:219:ILE:HG13	1.98	0.46
46:JB:336:LYS:HB3	46:JB:336:LYS:HE3	1.75	0.46
45:JC:88:HIS:HE1	45:JC:90:GLU:HG2	1.79	0.46
45:JE:242:LEU:HD11	45:JE:252:ILE:HG23	1.97	0.46
46:JF:68:LEU:HB3	46:JF:96:GLY:HA2	1.98	0.46
45:JG:200:VAL:HG13	45:JG:268:MET:CE	2.46	0.46
45:JI:339:ARG:O	45:JI:342:GLN:NE2	2.48	0.46
46:JJ:208:TYR:HE1	46:JJ:225:LEU:HD11	1.81	0.46
46:JL:266:PHE:CE1	46:JL:370:ASN:HB2	2.51	0.46
46:KB:68:LEU:HD12	46:KB:97:ALA:HB2	1.97	0.46
46:KD:54:ALA:HA	46:LD:283:ALA:HB2	1.98	0.46
46:KF:334:GLN:NE2	46:KF:348:ASN:OD1	2.49	0.46
46:KJ:190:HIS:NE2	46:KJ:410:GLU:OE1	2.49	0.46
45:LA:37:PRO:O	45:LA:38:SER:OG	2.29	0.46
45:LC:288:VAL:CG1	45:LC:327:ASP:HB3	2.46	0.46
46:LD:3:GLU:OE1	46:LD:3:GLU:N	2.42	0.46
46:LD:423:GLN:HE21	46:LD:424:GLN:HG2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LH:345:ILE:O	46:LH:345:ILE:HG13	2.15	0.46
45:LM:212:ILE:HD11	45:LM:300:ASN:HA	1.97	0.46
45:MA:254:GLU:O	45:MA:255:PHE:HD1	1.99	0.46
45:MC:242:LEU:HD11	45:MC:252:ILE:HG12	1.97	0.46
45:MI:194:LEU:O	45:MI:198:THR:HG22	2.16	0.46
45:MI:288:VAL:HA	45:MI:291:ILE:HG12	1.96	0.46
46:MJ:294:PHE:HE2	46:MJ:333:VAL:HG11	1.81	0.46
45:MM:187:SER:O	45:MM:191:THR:HG23	2.15	0.46
45:MM:205:ASP:OD1	45:MM:206:ASN:N	2.49	0.46
46:NB:117:LEU:HA	46:NB:120:VAL:HG12	1.97	0.46
46:NB:344:TRP:CD1	46:NB:345:ILE:HG12	2.51	0.46
46:ND:318:ARG:HB2	46:ND:364:ALA:HB3	1.98	0.46
45:NG:11:GLN:HG3	45:NG:74:VAL:HG11	1.97	0.46
45:NI:258:ASN:ND2	45:NI:352:LYS:HE2	2.30	0.46
45:NK:11:GLN:HG3	45:NK:74:VAL:HG11	1.97	0.46
46:OB:249:ASP:OD1	46:OB:252:LYS:N	2.46	0.46
46:OH:65:LEU:HD22	46:OH:90:PHE:CE1	2.50	0.46
46:OH:180:VAL:O	46:OH:180:VAL:HG12	2.15	0.46
46:OL:19:LYS:HG3	46:OL:226:ASN:HB3	1.98	0.46
45:OM:210:TYR:HD1	46:ON:324:LYS:HE3	1.80	0.46
45:PA:210:TYR:HE1	45:PA:227:LEU:HD11	1.81	0.46
45:PC:326:LYS:HZ1	46:PF:219:THR:HG23	1.81	0.46
45:PE:119:LEU:HG	45:PE:156:ARG:HH21	1.80	0.46
45:PG:98:ASP:OD1	45:PG:99:ALA:N	2.48	0.46
45:PG:346:TRP:CD1	46:PJ:391:ARG:HG3	2.50	0.46
45:PI:352:LYS:HZ3	46:PL:178:THR:HA	1.80	0.46
45:QA:211:ASP:HA	45:QA:214:ARG:HG3	1.98	0.46
46:QB:186:THR:HA	46:QB:189:VAL:HG12	1.96	0.46
46:QB:331:LEU:O	46:QB:334:GLN:HG2	2.16	0.46
45:QC:287:SER:HB3	45:QC:290:GLU:OE1	2.16	0.46
46:QF:258:ILE:HG13	46:QF:258:ILE:O	2.16	0.46
46:QH:318:ARG:HB3	46:QH:357:PRO:HA	1.97	0.46
45:QI:124:LYS:NZ	45:RI:290:GLU:OE1	2.34	0.46
46:QL:327:ASP:OD1	46:QL:328:GLU:N	2.48	0.46
45:QM:19:ALA:O	45:QM:22:GLU:HG3	2.16	0.46
45:RA:60:LYS:HD3	45:SA:283:HIS:CG	2.51	0.46
46:RB:131:GLN:NE2	45:RC:97:GLU:OE1	2.42	0.46
46:RB:260:PHE:HB2	46:RB:263:LEU:HD13	1.97	0.46
45:RG:82:THR:HA	45:RG:84:ARG:HH12	1.81	0.46
45:RG:252:ILE:HD12	45:RG:252:ILE:H	1.80	0.46
45:RG:302:MET:HE2	45:RG:302:MET:HB3	1.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RH:9:GLY:HA2	46:RH:66:MET:O	2.15	0.46
46:RJ:5:VAL:HG11	46:RJ:123:GLU:HG3	1.96	0.46
46:RJ:288:GLU:O	46:RJ:291:GLN:HG3	2.15	0.46
46:SB:314:SER:HA	46:SB:350:LYS:O	2.15	0.46
46:SD:16:ILE:HD12	46:SD:229:VAL:HG21	1.97	0.46
46:SD:97:ALA:HB3	46:SD:143:THR:HB	1.98	0.46
46:SD:325:GLU:HA	46:SD:328:GLU:OE2	2.16	0.46
45:SE:133:GLN:HB3	45:SE:252:ILE:HD11	1.97	0.46
45:SG:214:ARG:NH2	45:SG:222:PRO:HD3	2.30	0.46
46:SH:380:ARG:O	46:SH:384:GLN:HG2	2.16	0.46
46:SJ:91:VAL:HG21	46:SJ:116:VAL:HB	1.98	0.46
46:SJ:165:GLU:HG2	46:SJ:250:LEU:HD11	1.98	0.46
46:SJ:334:GLN:HA	46:SJ:341:PHE:HE1	1.81	0.46
45:SK:253:THR:HA	45:SK:256:GLN:NE2	2.31	0.46
45:SK:288:VAL:HA	45:SK:291:ILE:HG12	1.97	0.46
46:SL:324:LYS:O	46:SL:325:GLU:C	2.54	0.46
46:SL:407:GLU:HA	46:SL:410:GLU:CD	2.36	0.46
45:SM:101:ASN:HA	45:SM:144:GLY:H	1.81	0.46
45:TA:387:VAL:HA	45:TA:390:ARG:HG2	1.98	0.46
46:TB:288:GLU:O	46:TB:291:GLN:NE2	2.49	0.46
45:TE:338:LYS:HG3	45:TE:340:THR:HG22	1.98	0.46
45:TG:141:VAL:HG12	45:TG:171:ILE:O	2.16	0.46
46:TJ:86:ARG:HE	46:UJ:282:ARG:HH12	1.62	0.46
45:TK:79:ARG:O	45:TK:84:ARG:HG3	2.15	0.46
45:TK:338:LYS:HG3	45:TK:340:THR:H	1.80	0.46
46:TL:32:PRO:HB3	46:TL:81:PHE:HD1	1.80	0.46
45:TM:226:ASN:O	45:TM:230:LEU:HD23	2.16	0.46
45:UC:298:PRO:HA	45:UC:301:MET:HE1	1.98	0.46
46:UD:19:LYS:O	46:UD:22:GLU:HG3	2.15	0.46
45:UE:121:ARG:NE	45:UE:121:ARG:HA	2.30	0.46
45:UE:318:MET:O	45:UE:375:VAL:HA	2.16	0.46
45:UE:358:GLN:OE1	45:UE:359:PRO:HD2	2.15	0.46
46:UF:391:ARG:HD2	46:UF:391:ARG:HA	1.70	0.46
45:UG:141:VAL:HG22	45:UG:187:SER:HA	1.98	0.46
45:UI:5:ILE:HD13	45:UI:135:PHE:HE1	1.80	0.46
45:UI:329:ASN:HA	45:UI:332:ILE:HG22	1.97	0.46
46:UL:16:ILE:HD13	46:UL:226:ASN:OD1	2.16	0.46
45:UM:53:PHE:HE1	45:UM:63:PRO:HG3	1.81	0.46
45:UM:186:ASN:OD1	45:UM:187:SER:N	2.48	0.46
45:UM:268:MET:HG3	45:UM:380:ASN:HB2	1.98	0.46
46:UN:87:PRO:HD2	46:VN:281:TYR:CE1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:107:HIS:ND1	45:VA:107:HIS:O	2.49	0.46
46:VB:3:GLU:OE2	46:VB:128:ASP:N	2.47	0.46
45:VC:10:GLY:O	45:VC:14:ILE:HG12	2.16	0.46
45:VE:251:ASP:HB3	45:VE:254:GLU:OE1	2.15	0.46
45:VE:288:VAL:HA	45:VE:291:ILE:HG12	1.98	0.46
45:VG:413:MET:HB3	45:VG:417:GLU:OE2	2.15	0.46
45:VI:350:GLY:HA2	46:VL:179:VAL:HG12	1.97	0.46
46:VJ:31:ASP:HB2	46:VJ:32:PRO:HD2	1.98	0.46
45:VM:71:GLU:OE2	46:VN:2:ARG:NH1	2.49	0.46
45:VM:171:ILE:HG23	45:VM:204:LEU:O	2.15	0.46
45:VM:292:THR:HG21	45:VM:331:SER:HB3	1.98	0.46
46:VN:102:ALA:HB1	46:VN:403:MET:HE1	1.97	0.46
46:WB:7:ILE:HG13	46:WB:64:ILE:HD13	1.98	0.46
46:WH:1:MET:HG3	46:WH:2:ARG:H	1.81	0.46
46:WH:201:VAL:HG13	46:WH:301:CYS:SG	2.56	0.46
45:WK:196:GLU:HG2	45:WK:197:HIS:ND1	2.31	0.46
46:WN:253:LEU:O	46:WN:257:LEU:HB2	2.16	0.46
45:CE:184:PRO:O	45:CE:188:ILE:HG12	2.15	0.46
6:0F:140:VAL:HG11	45:FC:79:ARG:HD2	1.97	0.46
3:1C:96:LYS:HZ1	45:EM:364:PRO:HB3	1.80	0.46
20:1K:183:TYR:HA	46:GD:362:LYS:HE2	1.97	0.46
20:1K:249:GLU:HG3	46:GB:276:ARG:NH2	2.30	0.46
14:1V:72:GLY:HA2	46:MJ:340:TYR:CE1	2.50	0.46
15:1X:49:ILE:HD11	45:ME:282:TYR:CG	2.51	0.46
1:2A:104:ARG:HH21	34:5R:59:MET:HA	1.79	0.46
27:2C:222:ILE:O	45:KI:221:ARG:NH2	2.48	0.46
20:2K:433:LEU:HD11	45:GE:281:ALA:HB3	1.95	0.46
25:2R:315:GLN:HA	46:CH:276:ARG:HH21	1.80	0.46
13:2U:449:ARG:HH22	45:VI:84:ARG:NH1	2.12	0.46
15:4X:117:SER:O	15:4X:120:GLU:HG3	2.15	0.46
36:5B:29:GLN:C	36:5B:30:LYS:HD3	2.36	0.46
37:5F:9:TYR:O	37:5F:14:ARG:NH1	2.44	0.46
37:5F:213:TYR:O	46:LJ:390:ARG:NH1	2.45	0.46
37:5H:22:LYS:HG3	37:5H:23:ASP:N	2.29	0.46
37:5H:110:ARG:HD3	37:5H:112:ALA:N	2.28	0.46
34:5R:259:ASN:HB3	34:5R:350:PHE:CZ	2.51	0.46
45:AA:283:HIS:HD1	45:MA:88:HIS:HA	1.80	0.46
46:AD:178:THR:HG22	46:AD:180:VAL:H	1.79	0.46
45:AG:171:ILE:HG23	45:AG:204:LEU:O	2.15	0.46
46:AL:146:GLY:O	46:AL:149:THR:HG22	2.16	0.46
46:AL:372:THR:HA	46:AL:422:TYR:CE2	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BA:426:ALA:HB1	45:BA:430:LYS:HZ1	1.81	0.46
45:BE:174:SER:HB2	45:BE:177:VAL:O	2.16	0.46
46:BF:226:ASN:HA	46:BF:229:VAL:HG12	1.98	0.46
46:BF:321:MET:HB2	46:BF:325:GLU:OE2	2.16	0.46
45:BI:224:TYR:HE1	47:BI:501:GTP:C5	2.34	0.46
45:BI:224:TYR:CD1	47:BI:501:GTP:C6	3.04	0.46
46:BJ:207:LEU:HB3	46:BJ:225:LEU:HD22	1.98	0.46
45:BK:317:MET:SD	45:BK:377:MET:HG2	2.55	0.46
45:BK:422:ARG:HG3	45:BK:422:ARG:HH11	1.80	0.46
46:BL:86:ARG:HB2	46:BL:89:ASN:OD1	2.16	0.46
46:BL:117:LEU:HA	46:BL:120:VAL:HG12	1.97	0.46
45:BM:36:MET:SD	45:BM:37:PRO:HD2	2.56	0.46
45:CA:387:VAL:HA	45:CA:390:ARG:HG2	1.98	0.46
46:CB:8:GLN:NE2	46:CB:14:ASN:OD1	2.49	0.46
46:CH:6:HIS:O	46:CH:63:ALA:HA	2.16	0.46
46:CL:344:TRP:HB3	46:CL:430:ALA:HB2	1.97	0.46
45:CM:73:THR:O	45:CM:77:GLU:HG2	2.16	0.46
46:DF:65:LEU:HD22	46:DF:90:PHE:HE1	1.80	0.46
46:DJ:21:TRP:CZ3	46:DJ:61:PRO:HB3	2.50	0.46
46:DJ:237:THR:HG23	46:DJ:241:ARG:HH21	1.80	0.46
46:DL:248:SER:HB2	46:DL:252:LYS:HG2	1.97	0.46
45:EA:288:VAL:HA	45:EA:291:ILE:HG12	1.96	0.46
45:EC:92:LEU:HD12	45:EC:92:LEU:O	2.16	0.46
46:ED:380:ARG:O	46:ED:383:GLU:HG2	2.16	0.46
46:EF:324:LYS:O	46:EF:325:GLU:C	2.54	0.46
46:EH:183:TYR:HA	46:EH:385:PHE:CE1	2.50	0.46
45:EK:296:PHE:HE2	45:EK:335:ILE:HD12	1.81	0.46
46:FD:376:GLU:O	46:FD:380:ARG:HG2	2.16	0.46
45:FE:102:ASN:HD21	45:FE:411:GLU:HG3	1.81	0.46
45:FE:301:MET:HA	45:FE:301:MET:HE3	1.97	0.46
46:FF:156:ARG:HH21	46:FF:164:MET:HB2	1.80	0.46
46:FF:284:LEU:HD21	46:FF:363:MET:H	1.80	0.46
46:FF:377:MET:HE3	46:FF:377:MET:HA	1.98	0.46
46:FH:292:GLN:HG2	46:FH:298:ASN:ND2	2.31	0.46
45:FI:407:TRP:HE1	46:FJ:258:ILE:HG13	1.81	0.46
45:FK:187:SER:O	45:FK:191:THR:HG23	2.16	0.46
45:GA:319:TYR:HA	45:GA:374:ALA:O	2.16	0.46
46:GD:36:TYR:CE2	46:GD:44:LEU:HG	2.51	0.46
46:GD:318:ARG:HB2	46:GD:364:ALA:HB3	1.98	0.46
46:GF:221:THR:HG23	46:GF:223:GLY:H	1.81	0.46
45:GK:90:GLU:HG2	45:HK:280:LYS:NZ	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GL:209:ASP:OD1	46:GL:213:ARG:NH2	2.49	0.46
46:GN:31:ASP:OD2	46:GN:37:HIS:ND1	2.48	0.46
46:GN:202:ILE:HD12	46:GN:300:MET:HG2	1.97	0.46
46:HD:257:LEU:HD23	46:HD:266:PHE:CE2	2.51	0.46
46:HD:418:LEU:O	46:HD:422:TYR:HB2	2.16	0.46
45:HE:213:CYS:SG	45:HE:219:ILE:HB	2.55	0.46
45:HG:257:THR:HG22	46:HJ:397:TRP:CH2	2.51	0.46
46:HJ:374:ILE:HG22	46:HJ:422:TYR:CE2	2.51	0.46
45:HK:71:GLU:HB2	46:HL:2:ARG:HH12	1.80	0.46
45:HK:209:ILE:HG23	45:HK:227:LEU:HD22	1.98	0.46
45:HK:319:TYR:HE2	45:HK:328:VAL:HG22	1.81	0.46
46:HN:233:MET:O	46:HN:236:VAL:HG22	2.16	0.46
46:IB:226:ASN:HD21	49:IB:501:GDP:HN1	1.62	0.46
45:IE:331:SER:O	45:IE:335:ILE:HG12	2.16	0.46
45:IG:75:ILE:O	45:IG:79:ARG:HG3	2.16	0.46
45:IG:152:LEU:O	45:IG:155:GLU:HG3	2.15	0.46
45:IG:216:ASN:HB3	45:IG:275:ILE:O	2.16	0.46
45:II:345:ASP:OD1	45:II:346:TRP:N	2.49	0.46
46:IJ:72:THR:O	46:IJ:75:SER:OG	2.26	0.46
46:IJ:405:GLU:HA	46:IJ:408:PHE:HD1	1.81	0.46
46:IL:221:THR:HG23	46:IL:224:ASP:H	1.79	0.46
45:IM:47:ASP:OD2	45:IM:50:ASN:ND2	2.48	0.46
46:JB:268:ILE:N	46:JB:299:MET:HE1	2.31	0.46
45:JG:21:TRP:CZ2	45:JG:65:ALA:HB2	2.50	0.46
46:JH:68:LEU:HD12	46:JH:97:ALA:HB2	1.98	0.46
45:JK:377:MET:HE3	45:JK:378:ILE:H	1.80	0.46
46:JL:36:TYR:CZ	46:JL:38:GLY:HA3	2.51	0.46
46:JL:65:LEU:HD22	46:JL:90:PHE:CE1	2.51	0.46
46:JL:74:ASP:HA	46:JL:77:ARG:NE	2.30	0.46
46:JN:32:PRO:HA	46:JN:84:LEU:HD11	1.97	0.46
46:JN:250:LEU:HD23	46:JN:250:LEU:HA	1.79	0.46
46:KB:167:PHE:CE2	46:KB:233:MET:HG2	2.51	0.46
46:KF:12:CYS:O	46:KF:16:ILE:HG12	2.15	0.46
45:KG:35:GLN:N	45:KG:35:GLN:OE1	2.49	0.46
45:KG:262:TYR:HB2	45:KG:265:ILE:HG12	1.98	0.46
45:KI:280:LYS:HD3	45:KI:280:LYS:HA	1.74	0.46
46:KN:418:LEU:HA	46:KN:421:GLU:OE1	2.16	0.46
46:LB:321:MET:N	46:LB:321:MET:SD	2.89	0.46
45:LE:222:PRO:HG2	46:LF:324:LYS:HE3	1.98	0.46
46:LH:293:MET:SD	46:LH:367:PHE:HB2	2.55	0.46
46:LN:210:ILE:O	46:LN:214:THR:OG1	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MB:202:ILE:HD11	46:MB:268:ILE:HD11	1.98	0.46
46:MD:99:ASN:HA	46:MD:142:GLY:H	1.80	0.46
46:MD:190:HIS:CD2	46:MD:414:ASN:HD22	2.34	0.46
46:MH:5:VAL:HA	46:MH:62:ARG:HD3	1.97	0.46
46:MH:257:LEU:HD21	46:MH:314:SER:HB2	1.98	0.46
46:ND:164:MET:HE3	46:ND:196:ALA:HA	1.97	0.46
46:ND:262:ARG:NH1	46:ND:421:GLU:OE2	2.49	0.46
45:NG:10:GLY:O	45:NG:14:ILE:HG12	2.15	0.46
45:NG:221:ARG:HA	46:NH:324:LYS:HZ1	1.81	0.46
45:NG:345:ASP:OD1	45:NG:346:TRP:N	2.49	0.46
45:NI:132:LEU:HG	45:NI:164:LYS:HZ1	1.81	0.46
45:NK:352:LYS:HD2	45:NK:353:VAL:H	1.80	0.46
46:NL:238:CYS:HB2	46:NL:318:ARG:HH11	1.79	0.46
45:NM:174:SER:HB2	45:NM:177:VAL:O	2.16	0.46
46:NN:116:VAL:HA	46:NN:119:VAL:HG12	1.98	0.46
46:NN:248:SER:HA	46:NN:252:LYS:HD2	1.97	0.46
45:OA:183:GLU:N	45:OA:184:PRO:HD2	2.31	0.46
46:OB:3:GLU:OE2	46:OB:62:ARG:HD2	2.16	0.46
46:OF:20:PHE:HA	46:OF:230:SER:HB2	1.97	0.46
46:OF:58:ARG:NH2	46:OF:84:LEU:HA	2.31	0.46
45:OG:326:LYS:HE3	45:OG:326:LYS:HB3	1.74	0.46
46:OH:99:ASN:HA	46:OH:142:GLY:HA3	1.97	0.46
45:OI:3:GLU:HG2	45:OI:132:LEU:HA	1.98	0.46
45:OI:107:HIS:ND1	45:OI:107:HIS:O	2.48	0.46
45:OK:414:GLU:CD	45:OK:416:GLY:H	2.19	0.46
45:OM:107:HIS:O	45:OM:107:HIS:ND1	2.49	0.46
46:ON:213:ARG:NH2	46:ON:297:LYS:HB3	2.31	0.46
46:PB:105:HIS:CE1	46:PB:150:LEU:HD12	2.50	0.46
45:PC:18:ASN:O	45:PC:22:GLU:HG2	2.15	0.46
45:PC:88:HIS:CG	45:QC:280:LYS:HE2	2.51	0.46
45:PE:107:HIS:HA	45:PE:152:LEU:HD11	1.98	0.46
46:PF:55:THR:HG23	46:QD:283:ALA:HA	1.98	0.46
45:PG:326:LYS:NZ	46:PJ:220:PRO:HD2	2.30	0.46
45:PG:352:LYS:HE2	46:PJ:179:VAL:HG13	1.98	0.46
45:PK:8:HIS:HB2	45:PK:67:PHE:CD2	2.50	0.46
46:PL:39:ASP:OD1	46:PL:40:SER:N	2.49	0.46
45:PM:399:TYR:O	45:PM:402:ARG:NH1	2.49	0.46
46:PN:12:CYS:O	46:PN:16:ILE:HG12	2.15	0.46
46:PN:194:GLU:HG3	46:PN:262:ARG:HH22	1.80	0.46
45:QA:76:ASP:OD1	45:QA:79:ARG:NH2	2.49	0.46
46:QB:282:ARG:NH2	46:QB:292:GLN:OE1	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QC:102:ASN:HB3	45:QC:105:ARG:HG3	1.97	0.46
46:QD:310:TYR:CD2	46:QD:371:SER:HB2	2.51	0.46
46:QF:3:GLU:HG3	46:QF:49:VAL:HA	1.96	0.46
46:QF:8:GLN:HE21	46:QF:65:LEU:CD2	2.29	0.46
46:QL:181:GLU:HB3	46:QL:182:PRO:HD3	1.98	0.46
46:QL:216:LYS:HG2	46:QL:216:LYS:O	2.15	0.46
46:QN:65:LEU:HD22	46:QN:90:PHE:CE1	2.51	0.46
46:RB:257:LEU:HD21	46:RB:314:SER:HB3	1.98	0.46
45:RE:328:VAL:O	45:RE:332:ILE:HG23	2.16	0.46
46:RH:193:VAL:HG21	46:RH:418:LEU:HD22	1.97	0.46
45:RK:155:GLU:HG3	45:RK:197:HIS:CD2	2.49	0.46
46:RL:167:PHE:HE2	46:RL:200:MET:SD	2.38	0.46
45:RM:54:SER:OG	45:RM:64:ARG:HD3	2.15	0.46
45:SC:60:LYS:HE2	45:TC:283:HIS:CD2	2.51	0.46
45:SE:260:VAL:HG23	46:SF:397:TRP:HZ2	1.80	0.46
45:SG:187:SER:O	45:SG:191:THR:HG23	2.16	0.46
45:SI:115:VAL:HG22	45:SI:119:LEU:HD23	1.98	0.46
46:SL:132:GLY:HA3	46:SL:163:ILE:HG13	1.97	0.46
45:SM:384:ILE:HG23	45:SM:388:PHE:HE1	1.81	0.46
46:SN:288:GLU:O	46:SN:291:GLN:HG3	2.16	0.46
46:SN:293:MET:HE2	46:SN:367:PHE:HB2	1.97	0.46
45:TC:272:TYR:HD2	45:TC:275:ILE:HD11	1.81	0.46
46:TF:51:TYR:O	46:TF:62:ARG:NH2	2.46	0.46
45:TI:231:ILE:O	45:TI:235:ILE:HG12	2.16	0.46
46:TL:269:GLY:HA2	46:TL:300:MET:HE1	1.98	0.46
46:TL:347:ASN:ND2	45:TM:176:GLN:O	2.42	0.46
46:TN:288:GLU:O	46:TN:291:GLN:HG3	2.16	0.46
45:UC:280:LYS:HZ3	45:UC:283:HIS:CB	2.23	0.46
46:UD:117:LEU:HA	46:UD:120:VAL:HG12	1.97	0.46
46:UD:252:LYS:HZ1	47:UE:501:GTP:PG	2.36	0.46
46:UD:341:PHE:HD2	46:UD:348:ASN:HD21	1.63	0.46
45:UE:204:LEU:HD12	45:UE:231:ILE:HD12	1.98	0.46
46:UF:287:PRO:HG3	46:UF:329:GLN:NE2	2.31	0.46
45:UG:115:VAL:HG11	45:UG:152:LEU:HD23	1.98	0.46
45:UG:263:PRO:HG2	45:UG:264:ARG:HH12	1.81	0.46
46:UJ:372:THR:HA	46:UJ:422:TYR:CE2	2.40	0.46
45:UK:297:GLU:HG2	45:UK:298:PRO:HD2	1.97	0.46
45:UK:352:LYS:HZ1	46:UL:179:VAL:N	2.11	0.46
46:UL:58:ARG:NH2	46:VL:281:TYR:OH	2.48	0.46
46:UN:68:LEU:HG	46:UN:96:GLY:H	1.80	0.46
46:UN:119:VAL:HG23	46:UN:122:LYS:NZ	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:378:PHE:HA	46:UN:381:VAL:HG22	1.98	0.46
45:VA:226:ASN:HA	45:VA:229:ARG:HD2	1.97	0.46
45:VC:56:THR:HG23	45:VC:58:ALA:H	1.81	0.46
46:VF:3:GLU:HG2	46:VF:49:VAL:HA	1.98	0.46
46:VF:178:THR:HB	46:VF:181:GLU:HG2	1.98	0.46
46:VF:320:ARG:NH2	46:VF:321:MET:HA	2.31	0.46
45:VG:251:ASP:HB3	45:VG:254:GLU:OE1	2.16	0.46
45:VG:387:VAL:O	45:VG:390:ARG:HG2	2.15	0.46
46:VH:232:ALA:HB1	46:VH:268:ILE:HD12	1.98	0.46
46:VH:286:VAL:HG21	46:VH:325:GLU:CG	2.46	0.46
46:VN:178:THR:HB	46:VN:181:GLU:OE2	2.15	0.46
46:VN:415:MET:O	46:VN:419:VAL:HG23	2.16	0.46
46:WD:9:GLY:HA2	46:WD:66:MET:O	2.16	0.46
46:WD:317:PHE:HE1	46:WD:326:VAL:HG13	1.80	0.46
46:WF:201:VAL:HG23	46:WF:301:CYS:SG	2.56	0.46
46:WH:67:ASP:O	46:WH:92:PHE:HA	2.16	0.46
46:WL:286:VAL:HA	46:WL:289:LEU:HB2	1.98	0.46
45:CE:230:LEU:O	45:CE:234:VAL:HG23	2.15	0.46
45:DC:215:ARG:NH2	45:DC:299:ALA:O	2.49	0.46
1:0A:134:LYS:O	46:AB:320:ARG:NH2	2.48	0.46
6:0F:204:PHE:O	45:FC:221:ARG:HB2	2.16	0.46
8:1H:352:GLU:HG2	45:GA:58:ALA:HB2	1.97	0.46
28:2F:77:THR:OG1	46:HF:291:GLN:OE1	2.34	0.46
15:4X:57:LYS:HA	15:4X:57:LYS:HE2	1.98	0.46
36:5A:104:PRO:HB3	45:KA:390:ARG:HD3	1.97	0.46
34:5R:549:MET:O	34:5R:553:ILE:HG12	2.16	0.46
34:5R:557:ASP:OD2	34:5R:561:ARG:N	2.44	0.46
35:5S:78:VAL:HG13	35:5S:79:ASN:H	1.81	0.46
39:6F:45:LYS:HG3	39:6F:46:PHE:CD2	2.51	0.46
39:6F:123:TYR:HA	39:6F:126:LYS:HB3	1.98	0.46
10:6Q:71:ILE:HG23	10:6Q:73:LEU:HD13	1.97	0.46
34:6R:227:GLU:HA	34:6R:230:GLU:HG3	1.98	0.46
34:7R:12:LEU:HD12	34:7R:15:HIS:CD2	2.51	0.46
45:AC:141:VAL:HG12	45:AC:171:ILE:O	2.16	0.46
45:AC:176:GLN:NE2	45:AC:177:VAL:HG23	2.31	0.46
46:AD:103:LYS:HB2	46:AD:401:GLU:OE1	2.16	0.46
46:AF:65:LEU:HD13	46:AF:90:PHE:HE1	1.81	0.46
45:AG:265:ILE:HG22	45:AG:380:ASN:HD21	1.81	0.46
46:AH:11:GLN:HB3	46:AH:72:THR:HG21	1.97	0.46
46:AH:203:ASP:O	46:AH:207:LEU:HG	2.15	0.46
46:AJ:226:ASN:HD21	49:AJ:501:GDP:HN1	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BH:20:PHE:HA	46:BH:230:SER:HB2	1.97	0.46
45:BI:325:PRO:HA	45:BI:328:VAL:HG12	1.98	0.46
45:BI:402:ARG:NH2	45:BI:415:GLU:OE2	2.48	0.46
46:BL:342:VAL:HG13	46:BL:345:ILE:HG22	1.97	0.46
46:CB:258:ILE:HG23	46:CB:263:LEU:O	2.16	0.46
45:CC:18:ASN:O	45:CC:22:GLU:OE1	2.34	0.46
45:CC:356:ASN:OD1	45:CC:357:TYR:N	2.49	0.46
46:CD:205:GLU:OE2	46:CD:302:ALA:HB2	2.16	0.46
46:CJ:260:PHE:HB2	46:CJ:263:LEU:HD13	1.98	0.46
46:CL:65:LEU:HD22	46:CL:90:PHE:CE1	2.51	0.46
46:CL:173:PRO:HG3	46:CL:384:GLN:NE2	2.31	0.46
45:CM:430:LYS:HA	45:CM:433:GLU:CD	2.36	0.46
46:CN:97:ALA:HB3	46:CN:143:THR:HB	1.97	0.46
46:DF:99:ASN:ND2	46:DF:178:THR:HG21	2.31	0.46
45:DG:261:PRO:HA	46:DH:394:PHE:CD1	2.51	0.46
45:DI:21:TRP:CZ3	45:DI:63:PRO:HB3	2.51	0.46
45:DI:254:GLU:HG2	46:DJ:98:GLY:HA2	1.97	0.46
46:DL:141:GLY:HA3	49:DL:501:GDP:PB	2.56	0.46
45:DM:141:VAL:HG12	45:DM:187:SER:HA	1.96	0.46
46:EB:312:THR:HG22	46:EB:370:ASN:HB3	1.97	0.46
46:ED:204:ASN:OD1	49:ED:501:GDP:O2'	2.27	0.46
46:EH:55:THR:HG23	46:FH:283:ALA:HA	1.97	0.46
45:EI:171:ILE:HG13	45:EI:204:LEU:HB2	1.98	0.46
46:EJ:207:LEU:HD13	46:EJ:225:LEU:HB3	1.97	0.46
46:EJ:251:ARG:HD3	45:EK:105:ARG:NH1	2.30	0.46
45:EK:170:THR:HG1	45:EK:172:TYR:HE1	1.62	0.46
46:FD:91:VAL:HG11	46:FD:116:VAL:HB	1.98	0.46
45:FE:226:ASN:ND2	45:FE:367:ASP:OD2	2.49	0.46
45:FI:384:ILE:O	45:FI:387:VAL:HG22	2.15	0.46
46:FJ:113:ILE:HG21	46:FJ:154:LYS:HZ3	1.81	0.46
45:FK:195:LEU:HD21	45:FK:264:ARG:HD2	1.97	0.46
45:FK:302:MET:HE2	45:FK:302:MET:HB3	1.63	0.46
45:FK:387:VAL:HA	45:FK:390:ARG:HG2	1.98	0.46
46:FL:69:GLU:CD	46:FL:71:GLY:H	2.19	0.46
45:GG:107:HIS:ND1	45:GG:107:HIS:O	2.49	0.46
46:GH:86:ARG:HG3	46:GH:88:ASP:H	1.81	0.46
45:HA:203:MET:SD	45:HA:267:PHE:HB3	2.56	0.46
45:HC:251:ASP:HB3	45:HC:254:GLU:HG2	1.98	0.46
46:HF:273:LEU:H	46:HF:292:GLN:NE2	2.14	0.46
45:HG:72:PRO:HD2	46:HH:2:ARG:HH21	1.81	0.46
45:HI:268:MET:HG3	45:HI:380:ASN:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HK:105:ARG:HG2	45:HK:411:GLU:OE1	2.16	0.46
46:HL:12:CYS:O	46:HL:16:ILE:HG12	2.16	0.46
46:HL:109:GLY:HA2	46:HL:147:MET:CE	2.44	0.46
45:HM:186:ASN:OD1	45:HM:187:SER:N	2.49	0.46
45:HM:217:LEU:HD21	45:HM:368:LEU:HD22	1.97	0.46
46:IL:257:LEU:HD23	46:IL:266:PHE:CE1	2.51	0.46
45:JE:181:VAL:HG23	46:JF:350:LYS:HE2	1.97	0.46
45:JK:68:LEU:HD13	45:JK:93:ILE:HB	1.96	0.46
45:KA:133:GLN:HB3	45:KA:252:ILE:HD11	1.98	0.46
45:KC:4:VAL:HG12	45:KC:133:GLN:HB2	1.98	0.46
45:KC:426:ALA:HA	45:KC:429:GLU:OE2	2.16	0.46
45:KI:56:THR:HG23	45:KI:58:ALA:H	1.81	0.46
45:KK:17:GLY:HA2	45:KK:20:CYS:SG	2.56	0.46
45:LA:338:LYS:HZ2	45:LA:339:ARG:H	1.62	0.46
45:LI:305:CYS:SG	45:LI:306:ASP:N	2.89	0.46
45:LK:224:TYR:HE2	46:LL:246:LEU:HD11	1.80	0.46
46:LL:156:ARG:HG3	46:LL:195:ASN:HB3	1.98	0.46
45:LM:329:ASN:HA	45:LM:332:ILE:HG12	1.98	0.46
45:LM:345:ASP:OD2	45:LM:346:TRP:N	2.49	0.46
46:MB:21:TRP:HA	46:MB:24:ILE:HG22	1.98	0.46
46:MD:391:ARG:HA	46:MD:391:ARG:HD2	1.79	0.46
45:ME:141:VAL:HG12	45:ME:171:ILE:O	2.16	0.46
46:MJ:187:LEU:HD11	46:MJ:408:PHE:CE1	2.50	0.46
45:MK:6:SER:OG	45:MK:8:HIS:NE2	2.48	0.46
45:NA:167:LEU:HG	45:NA:200:VAL:HB	1.97	0.46
46:NB:119:VAL:HA	46:NB:122:LYS:CE	2.43	0.46
46:NB:119:VAL:O	46:NB:123:GLU:HG2	2.16	0.46
46:ND:371:SER:O	46:ND:422:TYR:OH	2.34	0.46
45:NE:242:LEU:HD11	45:NE:252:ILE:HD11	1.98	0.46
45:NE:268:MET:HG3	45:NE:380:ASN:HB2	1.98	0.46
45:NE:276:ILE:HG13	45:NE:283:HIS:CE1	2.50	0.46
46:NH:187:LEU:HD11	46:NH:408:PHE:HE2	1.81	0.46
46:NH:221:THR:O	46:NH:225:LEU:HD12	2.16	0.46
46:NL:200:MET:SD	46:NL:268:ILE:HG21	2.56	0.46
46:NN:391:ARG:HA	46:NN:391:ARG:HD2	1.82	0.46
45:OA:227:LEU:O	45:OA:230:LEU:HG	2.16	0.46
45:OE:68:LEU:HD13	45:OE:93:ILE:HB	1.97	0.46
45:OG:257:THR:HA	46:OJ:397:TRP:CH2	2.51	0.46
45:OG:307:PRO:HB3	45:OG:312:TYR:HE1	1.81	0.46
46:OH:310:TYR:HE2	46:OH:367:PHE:HZ	1.64	0.46
45:OI:154:LEU:HD12	45:OI:194:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OI:211:ASP:OD1	45:OI:214:ARG:NH2	2.43	0.46
46:OJ:201:VAL:HG23	46:OJ:301:CYS:SG	2.56	0.46
45:OK:88:HIS:CE1	45:PK:280:LYS:HE2	2.51	0.46
45:OK:140:SER:OG	47:OK:501:GTP:O2B	2.33	0.46
45:OK:326:LYS:HG3	46:ON:208:TYR:CD1	2.51	0.46
46:OL:218:THR:HG23	46:OL:276:ARG:NH2	2.30	0.46
46:OL:409:THR:O	46:OL:412:GLU:HG3	2.15	0.46
46:PB:232:ALA:HB1	46:PB:268:ILE:HD12	1.98	0.46
45:PC:60:LYS:NZ	45:PC:86:LEU:HA	2.30	0.46
46:PD:68:LEU:HG	46:PD:96:GLY:H	1.80	0.46
45:PI:98:ASP:OD1	45:PI:99:ALA:N	2.49	0.46
45:PK:183:GLU:N	45:PK:184:PRO:HD2	2.31	0.46
45:PM:319:TYR:HB3	45:PM:323:VAL:HG11	1.97	0.46
45:PM:407:TRP:CH2	46:PN:258:ILE:HB	2.51	0.46
45:QA:319:TYR:HB3	45:QA:323:VAL:HG11	1.98	0.46
45:QA:331:SER:O	45:QA:335:ILE:HG12	2.16	0.46
46:QB:420:SER:O	46:QB:423:GLN:HG3	2.16	0.46
45:QC:182:VAL:O	45:QC:182:VAL:HG12	2.15	0.46
46:QF:318:ARG:HH11	46:QF:358:PRO:HG3	1.81	0.46
45:QG:1:MET:HB3	45:QG:2:ARG:HH12	1.81	0.46
45:QG:272:TYR:O	45:QG:300:ASN:ND2	2.47	0.46
45:QG:324:VAL:HG11	45:QG:326:LYS:HE2	1.98	0.46
45:QI:311:LYS:NZ	45:QI:342:GLN:HB3	2.30	0.46
45:QI:384:ILE:O	45:QI:387:VAL:HG22	2.15	0.46
46:QL:317:PHE:CD1	46:QL:365:VAL:HG22	2.51	0.46
46:RB:50:TYR:OH	46:RB:237:THR:OG1	2.30	0.46
46:RJ:131:GLN:HE22	46:RJ:250:LEU:HB2	1.81	0.46
45:RK:269:LEU:HD23	45:RK:379:SER:O	2.16	0.46
46:RN:58:ARG:NH2	46:SN:281:TYR:OH	2.48	0.46
46:SB:15:GLN:HG2	49:SB:501:GDP:O6	2.16	0.46
46:SB:121:ARG:NH2	46:TB:336:LYS:HE3	2.30	0.46
46:SJ:139:LEU:HD22	46:SJ:170:VAL:HG12	1.97	0.46
45:SK:241:SER:OG	45:SK:250:VAL:O	2.20	0.46
46:SL:32:PRO:HA	46:SL:84:LEU:HD11	1.97	0.46
46:SL:282:ARG:HA	46:SL:282:ARG:NH1	2.31	0.46
46:SN:31:ASP:OD2	46:SN:37:HIS:ND1	2.49	0.46
46:TB:207:LEU:HB3	46:TB:225:LEU:HD22	1.98	0.46
46:TB:241:ARG:HH12	46:TB:318:ARG:HH12	1.64	0.46
46:TD:21:TRP:CZ3	46:TD:61:PRO:HB3	2.51	0.46
45:TE:137:VAL:HG23	45:TE:168:GLY:HA2	1.97	0.46
45:TE:150:GLY:O	45:TE:154:LEU:HG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TE:377:MET:HE2	45:TE:379:SER:HB3	1.98	0.46
45:TK:68:LEU:HD13	45:TK:93:ILE:HB	1.98	0.46
46:TL:256:ASN:HD22	46:TL:350:LYS:NZ	2.13	0.46
45:TM:425:LEU:HD23	45:TM:425:LEU:HA	1.80	0.46
46:UB:139:LEU:HD13	46:UB:168:SER:HB3	1.97	0.46
46:UB:190:HIS:NE2	46:UB:411:ALA:O	2.40	0.46
46:UD:6:HIS:HD2	46:UD:21:TRP:HE1	1.64	0.46
46:UD:304:ASP:HB3	46:UD:307:HIS:ND1	2.31	0.46
45:UE:384:ILE:O	45:UE:387:VAL:HG22	2.16	0.46
46:UF:54:ALA:HB3	46:UF:58:ARG:HG2	1.98	0.46
46:UF:64:ILE:HD13	46:UF:119:VAL:HG13	1.98	0.46
46:UH:99:ASN:HA	46:UH:142:GLY:H	1.80	0.46
46:UH:287:PRO:HA	46:UH:290:THR:HG22	1.98	0.46
46:UL:409:THR:O	46:UL:412:GLU:HG3	2.16	0.46
45:UM:78:VAL:HA	45:UM:84:ARG:NH2	2.31	0.46
45:VA:260:VAL:HG21	45:VA:266:HIS:HB3	1.96	0.46
46:VB:165:GLU:OE1	46:VB:198:GLU:HB2	2.15	0.46
46:VD:237:THR:HG23	46:VD:241:ARG:HH21	1.80	0.46
46:VD:350:LYS:HD3	46:VD:351:SER:N	2.30	0.46
46:VF:178:THR:HG22	46:VF:180:VAL:H	1.80	0.46
46:VF:309:ARG:HG2	46:VF:340:TYR:HA	1.98	0.46
45:VI:332:ILE:O	45:VI:336:LYS:HG2	2.15	0.46
46:VJ:94:GLN:OE1	46:VJ:94:GLN:HA	2.16	0.46
46:VJ:190:HIS:CD2	46:VJ:411:ALA:HA	2.51	0.46
46:VJ:203:ASP:OD2	46:VJ:377:MET:HE1	2.15	0.46
46:VN:16:ILE:HD12	46:VN:229:VAL:HG11	1.98	0.46
45:WA:340:THR:HG23	45:WA:341:ILE:HG13	1.96	0.46
45:WC:98:ASP:N	46:WD:2:ARG:HH21	2.12	0.46
45:WE:90:GLU:OE2	45:WE:121:ARG:NH1	2.49	0.46
46:WF:73:MET:CE	46:WF:92:PHE:HB3	2.46	0.46
45:WK:303:ALA:O	45:WK:305:CYS:N	2.46	0.46
45:DC:20:CYS:HA	45:DC:232:ALA:HB1	1.98	0.46
45:DC:21:TRP:CZ2	45:DC:65:ALA:HB2	2.50	0.46
45:DC:311:LYS:H	45:DC:382:THR:HB	1.80	0.46
45:DC:322:ASP:OD1	45:DC:373:ARG:NH1	2.45	0.46
7:1G:100:GLU:CD	46:JB:320:ARG:HH12	2.19	0.46
21:1L:179:THR:HG21	45:CI:365:GLY:HA3	1.98	0.46
21:2L:901:LYS:NZ	46:CJ:320:ARG:HH12	2.13	0.46
10:2Q:53:ASN:ND2	45:AE:396:ASP:HB2	2.31	0.46
14:3V:142:ILE:HD11	45:LC:402:ARG:HE	1.80	0.46
36:5C:28:SER:HB3	36:5C:29:GLN:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5G:197:LEU:HD12	45:LK:393:HIS:CG	2.51	0.46
10:5Q:7:GLN:O	10:5Q:7:GLN:HG2	2.16	0.46
10:5Q:35:LYS:HD3	10:5Q:37:ILE:HD11	1.98	0.46
34:5R:465:ILE:HB	46:FJ:276:ARG:CZ	2.45	0.46
35:5S:111:GLU:HG2	35:5S:116:TYR:CB	2.46	0.46
40:6G:214:LEU:HD11	45:VC:333:ALA:HB3	1.97	0.46
40:6G:226:GLY:C	45:UE:123:ARG:HH12	2.18	0.46
34:7R:426:PHE:HA	34:7R:508:ALA:HA	1.96	0.46
45:AA:209:ILE:HG12	45:AA:302:MET:CE	2.46	0.46
46:AD:1:MET:O	46:AD:2:ARG:HG2	2.15	0.46
46:AD:52:ASN:OD1	46:AD:62:ARG:NH2	2.49	0.46
45:AE:89:PRO:HG2	45:BE:280:LYS:HB3	1.98	0.46
45:AK:231:ILE:O	45:AK:235:ILE:HG12	2.16	0.46
45:BA:195:LEU:HD21	45:BA:264:ARG:HH21	1.80	0.46
45:BC:304:LYS:O	45:BC:304:LYS:HD3	2.16	0.46
46:BL:232:ALA:HB1	46:BL:268:ILE:HD12	1.97	0.46
46:BN:66:MET:HE3	46:BN:151:LEU:HD13	1.98	0.46
46:BN:308:GLY:HA2	46:BN:426:GLN:HE22	1.81	0.46
45:CA:171:ILE:HG23	45:CA:204:LEU:O	2.16	0.46
46:CD:201:VAL:HG21	46:CD:374:ILE:HD11	1.98	0.46
46:CH:87:PRO:HA	46:CH:90:PHE:CD2	2.43	0.46
46:CH:201:VAL:HG23	46:CH:301:CYS:SG	2.56	0.46
45:CK:154:LEU:HD12	45:CK:155:GLU:HG3	1.98	0.46
45:CK:296:PHE:HD1	45:CK:341:ILE:HD13	1.81	0.46
46:CL:173:PRO:HD2	46:CL:380:ARG:NH2	2.31	0.46
45:DA:203:MET:HG3	45:DA:384:ILE:HD11	1.98	0.46
46:DB:77:ARG:NH2	46:DB:83:GLN:OE1	2.48	0.46
46:DD:318:ARG:HH11	46:DD:358:PRO:HG3	1.81	0.46
45:DG:387:VAL:N	45:DG:390:ARG:HH21	2.14	0.46
45:DK:39:ASP:N	45:DK:39:ASP:OD1	2.48	0.46
46:DN:273:LEU:H	46:DN:292:GLN:NE2	2.07	0.46
45:EG:19:ALA:O	45:EG:22:GLU:HG2	2.16	0.46
45:EG:209:ILE:HD11	45:EG:227:LEU:HD23	1.98	0.46
45:EG:346:TRP:CD1	46:EH:391:ARG:HG3	2.51	0.46
46:EH:65:LEU:HD22	46:EH:90:PHE:CE1	2.51	0.46
45:EK:239:THR:HG23	45:EK:243:ARG:HH21	1.81	0.46
46:EL:119:VAL:HA	46:EL:122:LYS:HD3	1.97	0.46
45:EM:141:VAL:HG12	45:EM:171:ILE:O	2.16	0.46
45:EM:274:PRO:HG3	45:EM:286:LEU:HD23	1.97	0.46
45:FA:208:ALA:O	45:FA:212:ILE:HG12	2.16	0.46
45:FA:221:ARG:HH11	46:FB:325:GLU:H	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FF:190:HIS:CD2	46:FF:411:ALA:HA	2.51	0.46
45:FK:7:ILE:HB	45:FK:137:VAL:HG12	1.98	0.46
45:FK:84:ARG:HG3	45:FK:84:ARG:HH11	1.80	0.46
46:FL:216:LYS:HB3	46:FL:216:LYS:HE2	1.75	0.46
46:FL:263:LEU:HD23	46:FL:422:TYR:CE2	2.51	0.46
45:GA:19:ALA:HA	45:GA:22:GLU:OE1	2.16	0.46
45:GE:19:ALA:HA	45:GE:22:GLU:OE1	2.16	0.46
45:GE:55:GLU:O	45:HE:285:GLN:NE2	2.39	0.46
45:GE:317:MET:HE2	45:GE:332:ILE:HD11	1.97	0.46
45:GG:88:HIS:H	45:GG:91:GLN:NE2	2.14	0.46
46:GH:208:TYR:CE2	46:GH:225:LEU:HD21	2.51	0.46
45:GK:19:ALA:HA	45:GK:22:GLU:OE1	2.15	0.46
45:GM:206:ASN:OD1	47:GM:501:GTP:N2	2.49	0.46
46:GN:156:ARG:NH1	46:GN:162:ARG:O	2.48	0.46
46:GN:238:CYS:HB2	46:GN:318:ARG:NH1	2.30	0.46
46:GN:375:GLN:NE2	46:GN:422:TYR:HB3	2.31	0.46
45:HA:356:ASN:OD1	45:HA:358:GLN:N	2.44	0.46
46:HF:262:ARG:NH1	46:HF:421:GLU:OE1	2.48	0.46
46:HL:9:GLY:HA3	46:HL:66:MET:SD	2.55	0.46
46:HL:294:PHE:CE2	46:HL:333:VAL:HG11	2.51	0.46
45:HM:14:ILE:HD11	45:HM:69:ASP:HB2	1.98	0.46
45:HM:55:GLU:HG3	45:HM:57:GLY:H	1.80	0.46
46:HN:304:ASP:HB3	46:HN:307:HIS:ND1	2.31	0.46
45:IE:141:VAL:HG11	45:IE:172:TYR:CD1	2.51	0.46
46:IF:217:LEU:HD11	46:IF:220:PRO:HB3	1.97	0.46
45:IG:21:TRP:CZ2	45:IG:65:ALA:HB2	2.51	0.46
46:IJ:117:LEU:HA	46:IJ:120:VAL:HG12	1.98	0.46
46:IJ:201:VAL:HG23	46:IJ:301:CYS:SG	2.56	0.46
45:IK:205:ASP:OD1	45:IK:303:ALA:HA	2.15	0.46
45:JA:151:SER:HB2	45:JA:193:SER:OG	2.16	0.46
45:JA:226:ASN:ND2	45:JA:367:ASP:OD2	2.49	0.46
45:JA:297:GLU:HB2	45:JA:300:ASN:OD1	2.15	0.46
45:JA:338:LYS:HZ2	45:JA:339:ARG:H	1.62	0.46
46:JB:317:PHE:CD2	46:JB:365:VAL:HG22	2.51	0.46
46:JH:141:GLY:HA3	49:JH:501:GDP:O3A	2.17	0.46
45:JI:108:TYR:HA	45:JI:112:LYS:NZ	2.31	0.46
45:JI:387:VAL:HG12	45:JI:390:ARG:NH1	2.32	0.46
45:JK:185:TYR:HD2	45:JK:408:TYR:HE1	1.64	0.46
46:JL:208:TYR:CD2	46:JL:225:LEU:HD11	2.51	0.46
45:KA:75:ILE:HD13	45:KA:94:SER:HB3	1.96	0.46
46:KJ:106:TYR:HE2	46:KJ:403:MET:HB3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KJ:207:LEU:HB3	46:KJ:225:LEU:HD22	1.98	0.46
46:KJ:374:ILE:O	46:KJ:377:MET:HG3	2.16	0.46
45:LC:311:LYS:N	45:LC:382:THR:OG1	2.46	0.46
45:LE:35:GLN:OE1	45:LE:35:GLN:N	2.49	0.46
46:MF:217:LEU:HD11	46:MF:220:PRO:HB3	1.97	0.46
46:MH:391:ARG:HA	46:MH:391:ARG:HD2	1.83	0.46
45:NA:316:SER:HB3	45:NA:352:LYS:HB3	1.97	0.46
46:ND:101:TRP:HB3	46:ND:398:TYR:HE1	1.80	0.46
46:NF:122:LYS:HE3	46:NF:125:GLU:OE2	2.15	0.46
46:NF:316:LEU:HD13	46:NF:352:SER:HB3	1.97	0.46
45:NG:116:ASP:N	45:NG:116:ASP:OD1	2.50	0.46
45:NK:205:ASP:OD1	45:NK:303:ALA:HA	2.15	0.46
46:NL:374:ILE:HG12	46:NL:422:TYR:OH	2.16	0.46
45:NM:293:ASN:O	45:NM:297:GLU:HG3	2.15	0.46
46:NN:379:LYS:O	46:NN:383:GLU:OE1	2.34	0.46
45:OA:302:MET:N	45:OA:302:MET:SD	2.89	0.46
46:OB:4:ILE:HG13	46:OB:132:GLY:O	2.15	0.46
46:OB:143:THR:O	46:OB:147:MET:HG2	2.15	0.46
46:OB:345:ILE:O	46:OB:345:ILE:HG13	2.16	0.46
46:OD:67:ASP:O	46:OD:92:PHE:HA	2.14	0.46
46:OD:286:VAL:CG2	46:OD:287:PRO:HD3	2.45	0.46
46:OD:383:GLU:HA	46:OD:386:THR:HG22	1.97	0.46
45:OE:123:ARG:HH21	45:PE:338:LYS:HE3	1.81	0.46
45:OE:387:VAL:HA	45:OE:390:ARG:HG2	1.98	0.46
46:OH:16:ILE:HD12	46:OH:229:VAL:HG11	1.99	0.46
46:OJ:417:ASP:O	46:OJ:421:GLU:HG3	2.15	0.46
45:OK:319:TYR:HB3	45:OK:323:VAL:HG21	1.97	0.46
46:OL:344:TRP:HB3	46:OL:430:ALA:HB2	1.97	0.46
46:ON:304:ASP:HB3	46:ON:307:HIS:ND1	2.31	0.46
46:ON:350:LYS:HD3	46:ON:351:SER:N	2.31	0.46
45:PC:21:TRP:CZ2	45:PC:65:ALA:HB2	2.51	0.46
45:PC:136:LEU:HD13	45:PC:167:LEU:HB2	1.97	0.46
46:PD:222:TYR:HA	46:PD:225:LEU:HD12	1.98	0.46
45:PE:395:PHE:HZ	45:PE:418:PHE:HB3	1.81	0.46
46:PF:44:LEU:O	46:PF:47:ILE:HG12	2.17	0.46
46:PH:210:ILE:O	46:PH:214:THR:HG22	2.16	0.46
45:PI:352:LYS:HZ3	46:PL:179:VAL:N	2.09	0.46
46:PL:6:HIS:NE2	46:PL:8:GLN:OE1	2.40	0.46
46:PL:240:LEU:HD12	46:PL:249:ASP:HB2	1.98	0.46
45:PM:404:PHE:CE1	46:PN:259:PRO:HA	2.51	0.46
46:PN:117:LEU:HA	46:PN:120:VAL:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QA:214:ARG:NH1	45:QA:215:ARG:HB3	2.31	0.46
45:QC:252:ILE:HD12	45:QC:252:ILE:H	1.80	0.46
46:QD:67:ASP:OD1	46:QD:68:LEU:N	2.45	0.46
45:QE:290:GLU:OE1	45:QE:290:GLU:N	2.49	0.46
45:QG:143:GLY:HA3	47:QG:501:GTP:O2B	2.16	0.46
46:QH:258:ILE:HG13	46:QH:258:ILE:O	2.16	0.46
45:QK:119:LEU:HG	45:QK:156:ARG:CZ	2.45	0.46
45:QK:401:LYS:HE3	45:QK:401:LYS:HB2	1.68	0.46
45:QM:259:LEU:HD11	45:QM:316:SER:HB3	1.98	0.46
46:QN:288:GLU:O	46:QN:291:GLN:HG3	2.16	0.46
46:QN:391:ARG:HA	46:QN:391:ARG:HD2	1.78	0.46
46:RB:28:HIS:CD2	46:RB:241:ARG:HH21	2.34	0.46
46:RB:117:LEU:CD1	46:RB:154:LYS:HD2	2.46	0.46
46:RB:209:ASP:OD1	46:RB:213:ARG:HD3	2.16	0.46
45:RC:261:PRO:HA	46:RD:394:PHE:CD1	2.51	0.46
46:RD:6:HIS:O	46:RD:63:ALA:HA	2.16	0.46
45:RI:346:TRP:HH2	45:RI:435:VAL:HG13	1.82	0.46
45:RK:372:MET:SD	45:RK:372:MET:N	2.88	0.46
46:RL:421:GLU:HA	46:RL:424:GLN:OE1	2.16	0.46
45:SC:339:ARG:NH2	45:SC:340:THR:HA	2.31	0.46
46:SL:323:THR:HG21	45:SM:224:TYR:CE2	2.51	0.46
45:TC:9:VAL:HG13	45:TC:139:ASN:HB3	1.98	0.46
45:TC:53:PHE:O	45:TC:64:ARG:NH2	2.48	0.46
45:TC:167:LEU:HG	45:TC:200:VAL:HB	1.98	0.46
46:TD:292:GLN:HG2	46:TD:298:ASN:ND2	2.31	0.46
45:TE:49:PHE:HD1	45:TE:53:PHE:HB2	1.81	0.46
45:TE:56:THR:HG23	45:TE:58:ALA:H	1.80	0.46
45:TE:226:ASN:O	45:TE:229:ARG:HG2	2.16	0.46
46:TF:175:VAL:HG22	46:TF:205:GLU:HB2	1.98	0.46
45:TK:387:VAL:HA	45:TK:390:ARG:HG2	1.97	0.46
46:TL:32:PRO:HB3	46:TL:81:PHE:CD1	2.51	0.46
45:UA:171:ILE:HG23	45:UA:204:LEU:O	2.16	0.46
45:UA:301:MET:HG3	45:UA:303:ALA:H	1.80	0.46
45:UC:141:VAL:HG12	45:UC:171:ILE:O	2.16	0.46
46:UD:342:VAL:HG13	46:UD:345:ILE:HG22	1.98	0.46
46:UH:139:LEU:HD22	46:UH:170:VAL:HG12	1.97	0.46
46:UJ:11:GLN:O	46:UJ:15:GLN:HG2	2.16	0.46
46:UJ:395:LEU:O	46:UJ:399:THR:HG23	2.15	0.46
45:UK:175:PRO:HG3	45:UK:390:ARG:NH1	2.31	0.46
45:UK:331:SER:O	45:UK:335:ILE:HG12	2.16	0.46
46:UL:101:TRP:HB3	46:UL:398:TYR:HE1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VB:258:ILE:HD12	46:VB:264:HIS:HB3	1.96	0.46
46:VH:362:LYS:HA	46:VH:362:LYS:HD3	1.74	0.46
46:VN:228:LEU:HD12	46:VN:229:VAL:N	2.31	0.46
45:WA:107:HIS:ND1	45:WA:107:HIS:O	2.49	0.46
45:WC:66:VAL:HG11	45:WC:122:ILE:HD11	1.98	0.46
45:WC:326:LYS:HZ2	46:WF:219:THR:CA	2.29	0.46
45:WG:69:ASP:OD1	45:WG:71:GLU:HG3	2.15	0.46
45:WI:174:SER:OG	45:WI:207:GLU:OE1	2.31	0.46
45:WI:215:ARG:NH1	45:WI:299:ALA:HB1	2.31	0.46
45:WI:434:GLU:O	45:WI:437:ILE:HG12	2.16	0.46
45:WK:124:LYS:HE2	45:WK:124:LYS:HB2	1.81	0.46
46:WL:325:GLU:HA	46:WL:328:GLU:HG3	1.98	0.46
45:DC:68:LEU:HD23	45:DC:149:LEU:HD21	1.97	0.46
21:1L:545:GLU:HG2	45:BE:279:GLU:HG2	1.97	0.45
23:1O:214:ILE:HG12	45:UC:279:GLU:HA	1.98	0.45
33:4F:222:HIS:CE1	46:HN:44:LEU:HB2	2.50	0.45
34:4R:550:VAL:HA	34:4R:553:ILE:HG12	1.98	0.45
35:4S:106:PHE:HA	35:4S:109:LEU:HD13	1.98	0.45
35:5S:78:VAL:HG13	35:5S:79:ASN:N	2.31	0.45
40:6G:240:HIS:ND1	40:6G:240:HIS:O	2.49	0.45
10:6Q:40:GLN:NE2	10:6Q:41:ASP:OD1	2.49	0.45
34:6R:472:GLU:N	46:EN:78:ALA:HB1	2.32	0.45
45:AA:180:ALA:HA	46:AB:350:LYS:HD2	1.98	0.45
45:AC:102:ASN:OD1	45:AC:105:ARG:N	2.41	0.45
46:AF:6:HIS:O	46:AF:63:ALA:HA	2.16	0.45
46:AF:238:CYS:HB2	46:AF:318:ARG:NH2	2.32	0.45
45:AG:254:GLU:O	45:AG:255:PHE:HD1	2.00	0.45
46:AH:377:MET:HA	46:AH:380:ARG:NH1	2.31	0.45
45:AI:171:ILE:HG23	45:AI:204:LEU:O	2.17	0.45
46:AL:238:CYS:HB2	46:AL:318:ARG:NH1	2.31	0.45
46:BB:199:CYS:O	46:BB:265:PHE:HA	2.16	0.45
45:BC:124:LYS:HD3	45:BC:124:LYS:HA	1.76	0.45
46:BD:19:LYS:HG3	46:BD:226:ASN:CB	2.45	0.45
45:BE:224:TYR:HE2	46:BF:323:THR:HG1	1.63	0.45
45:BG:221:ARG:NH1	46:BH:322:SER:H	2.14	0.45
45:BM:80:THR:HA	45:BM:84:ARG:CZ	2.46	0.45
45:BM:192:HIS:HD2	45:BM:421:ALA:HA	1.81	0.45
46:BN:102:ALA:HB1	46:BN:401:GLU:HB2	1.99	0.45
45:CA:21:TRP:HZ2	45:CA:65:ALA:HB2	1.81	0.45
46:CD:70:PRO:O	46:CD:74:ASP:CB	2.62	0.45
45:CG:129:CYS:SG	45:CG:130:THR:N	2.89	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CH:285:THR:HB	46:CH:287:PRO:HD2	1.98	0.45
46:CH:341:PHE:HD2	46:CH:348:ASN:HD21	1.64	0.45
45:CI:326:LYS:HE2	46:CJ:220:PRO:HD2	1.97	0.45
45:CI:326:LYS:HD3	46:CJ:212:PHE:CZ	2.51	0.45
45:CK:241:SER:OG	45:CK:250:VAL:O	2.30	0.45
45:DE:75:ILE:HD12	45:DE:75:ILE:H	1.81	0.45
45:DE:88:HIS:HD2	45:DE:91:GLN:HG3	1.81	0.45
46:DH:9:GLY:HA2	46:DH:66:MET:O	2.16	0.45
45:DM:377:MET:HE1	45:DM:379:SER:HB3	1.98	0.45
46:EB:253:LEU:O	46:EB:257:LEU:HB2	2.16	0.45
45:EE:31:GLN:HG2	45:EE:35:GLN:O	2.16	0.45
46:EF:200:MET:HE3	46:EF:268:ILE:HD13	1.98	0.45
46:EF:221:THR:HG22	46:EF:224:ASP:OD2	2.16	0.45
46:EH:323:THR:OG1	45:EI:210:TYR:OH	2.33	0.45
45:EI:352:LYS:HD2	46:EJ:177:ASP:O	2.16	0.45
46:EJ:258:ILE:HD11	45:EK:407:TRP:CZ2	2.51	0.45
45:EK:224:TYR:HD1	45:EK:227:LEU:HD12	1.81	0.45
45:EK:314:ALA:HB3	45:EK:380:ASN:HB3	1.98	0.45
45:EM:275:ILE:HA	45:EM:368:LEU:HD11	1.98	0.45
46:EN:51:TYR:HB3	46:EN:59:TYR:HB3	1.98	0.45
45:FA:12:GLY:HA2	45:FA:15:GLN:HG2	1.98	0.45
45:FA:398:MET:CE	46:FB:345:ILE:HD12	2.46	0.45
46:FB:211:CYS:O	46:FB:216:LYS:N	2.49	0.45
45:FC:276:ILE:HD11	45:FC:280:LYS:HG3	1.98	0.45
45:FC:353:VAL:HG12	46:FF:177:ASP:HB2	1.97	0.45
46:FJ:178:THR:HG22	46:FJ:180:VAL:H	1.81	0.45
46:FN:21:TRP:CZ3	46:FN:50:TYR:HB3	2.51	0.45
46:GH:313:ALA:HB1	46:GH:367:PHE:HE1	1.80	0.45
45:GI:107:HIS:O	45:GI:107:HIS:ND1	2.48	0.45
45:GK:210:TYR:CE1	45:GK:227:LEU:HD11	2.42	0.45
46:GL:3:GLU:OE1	46:GL:3:GLU:N	2.45	0.45
45:HC:72:PRO:HD2	46:HD:2:ARG:NH1	2.32	0.45
45:HE:211:ASP:HB3	45:HE:215:ARG:NH1	2.31	0.45
45:HG:420:GLU:HA	45:HG:423:GLU:OE2	2.16	0.45
45:HI:7:ILE:HB	45:HI:137:VAL:HG12	1.97	0.45
45:HI:205:ASP:OD1	45:HI:303:ALA:HA	2.16	0.45
45:HI:239:THR:HG23	45:HI:243:ARG:HE	1.81	0.45
46:HJ:167:PHE:CE2	46:HJ:233:MET:HG2	2.51	0.45
46:HJ:174:LYS:HB2	46:HJ:205:GLU:OE1	2.16	0.45
45:HK:152:LEU:HA	45:HK:155:GLU:OE2	2.16	0.45
46:IB:345:ILE:HG13	46:IB:345:ILE:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ID:86:ARG:HB3	46:ID:89:ASN:OD1	2.16	0.45
46:IF:229:VAL:O	46:IF:233:MET:HG3	2.15	0.45
45:IG:220:GLU:HG2	45:IG:221:ARG:HG2	1.98	0.45
45:IG:350:GLY:HA2	46:IJ:179:VAL:HG23	1.98	0.45
46:IJ:295:ASP:OD2	46:IJ:297:LYS:N	2.47	0.45
45:IK:174:SER:HB2	45:IK:177:VAL:O	2.15	0.45
46:IL:201:VAL:HG23	46:IL:301:CYS:SG	2.56	0.45
45:IM:384:ILE:O	45:IM:387:VAL:HG22	2.16	0.45
46:IN:114:ASP:N	46:IN:114:ASP:OD2	2.48	0.45
45:JA:80:THR:O	45:JA:84:ARG:NH2	2.49	0.45
46:JD:235:GLY:HA2	46:JD:238:CYS:SG	2.56	0.45
45:JE:147:SER:HB2	45:JE:190:SER:HB3	1.97	0.45
46:JF:290:THR:HA	46:JF:293:MET:HG2	1.98	0.45
46:JF:326:VAL:HG12	46:JF:330:MET:CE	2.46	0.45
46:JF:327:ASP:HA	46:JF:330:MET:HE1	1.98	0.45
45:JG:103:PHE:H	45:JG:408:TYR:HE1	1.65	0.45
45:JI:100:ALA:HA	46:JJ:252:LYS:CG	2.46	0.45
45:JM:152:LEU:HA	45:JM:155:GLU:OE2	2.16	0.45
46:JN:3:GLU:OE1	46:JN:127:CYS:HB2	2.16	0.45
46:JN:324:LYS:HG3	46:JN:325:GLU:N	2.31	0.45
46:JN:384:GLN:O	46:JN:388:MET:HG2	2.17	0.45
45:KA:260:VAL:HB	46:KD:397:TRP:HH2	1.81	0.45
46:KD:101:TRP:CE3	46:KD:187:LEU:HD23	2.51	0.45
45:KG:183:GLU:N	45:KG:184:PRO:HD2	2.31	0.45
45:KG:296:PHE:CD2	45:KG:335:ILE:HD12	2.51	0.45
45:KK:352:LYS:HA	46:KN:177:ASP:O	2.16	0.45
46:LB:164:MET:O	46:LB:197:ASP:HB2	2.15	0.45
46:LD:186:THR:HA	46:LD:189:VAL:HG12	1.98	0.45
46:LF:287:PRO:HA	46:LF:290:THR:HG22	1.98	0.45
45:LI:195:LEU:HD12	45:LI:428:LEU:HD22	1.97	0.45
46:LJ:14:ASN:HD22	46:LJ:14:ASN:H	1.65	0.45
45:LK:97:GLU:HG3	45:LK:105:ARG:HH22	1.80	0.45
45:LK:141:VAL:HG23	45:LK:170:THR:HB	1.98	0.45
45:LK:271:SER:HB2	45:LK:301:MET:SD	2.57	0.45
46:LL:73:MET:CE	46:LL:92:PHE:HB3	2.46	0.45
45:LM:129:CYS:SG	45:LM:132:LEU:HB2	2.57	0.45
45:LM:430:LYS:HA	45:LM:433:GLU:OE2	2.15	0.45
45:LM:430:LYS:O	45:LM:434:GLU:HB2	2.17	0.45
45:MA:205:ASP:OD2	45:MA:206:ASN:N	2.49	0.45
45:MA:414:GLU:OE1	45:MA:415:GLU:N	2.49	0.45
46:MB:6:HIS:O	46:MB:63:ALA:HA	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MI:214:ARG:HH12	46:MJ:324:LYS:NZ	2.14	0.45
45:MI:220:GLU:HG2	45:MI:221:ARG:HD2	1.98	0.45
45:MI:399:TYR:O	45:MI:402:ARG:NH1	2.49	0.45
45:MM:288:VAL:HG11	45:MM:327:ASP:HB3	1.97	0.45
46:MN:102:ALA:O	46:MN:106:TYR:HB2	2.16	0.45
45:NA:186:ASN:OD1	45:NA:187:SER:N	2.48	0.45
46:NB:31:ASP:OD1	46:NB:34:GLY:N	2.49	0.45
46:NB:156:ARG:CZ	46:NB:195:ASN:HA	2.47	0.45
46:ND:161:ASP:OD1	46:ND:162:ARG:N	2.49	0.45
46:NF:318:ARG:HD3	46:NF:358:PRO:HD3	1.97	0.45
45:NG:147:SER:HB2	45:NG:190:SER:OG	2.15	0.45
46:NH:51:TYR:HE1	46:NH:61:PRO:HG3	1.81	0.45
46:NH:332:ASN:OD1	46:NH:336:LYS:HD3	2.15	0.45
45:NI:70:LEU:HD13	45:NI:145:THR:OG1	2.16	0.45
45:NK:100:ALA:HA	46:NL:252:LYS:HZ2	1.81	0.45
45:NK:225:THR:O	45:NK:229:ARG:HG3	2.17	0.45
46:NN:271:ALA:HB3	46:NN:365:VAL:HB	1.97	0.45
46:OB:55:THR:HG23	46:PB:283:ALA:HA	1.97	0.45
45:OC:305:CYS:O	45:OC:307:PRO:HD3	2.16	0.45
45:OE:133:GLN:N	45:OE:133:GLN:OE1	2.49	0.45
45:OG:90:GLU:N	45:PG:280:LYS:HZ1	2.14	0.45
46:OH:105:HIS:CE1	46:OH:150:LEU:HD12	2.51	0.45
46:OH:199:CYS:HB3	46:OH:265:PHE:CD2	2.51	0.45
45:OI:21:TRP:CZ2	45:OI:65:ALA:HB2	2.52	0.45
45:OI:50:ASN:O	45:OI:64:ARG:NH1	2.28	0.45
45:OI:329:ASN:HD22	46:OL:175:VAL:CG1	2.30	0.45
45:OI:329:ASN:HD22	46:OL:175:VAL:HG12	1.81	0.45
46:OJ:65:LEU:HB3	46:OJ:73:MET:HE1	1.98	0.45
46:OL:221:THR:HG23	46:OL:224:ASP:H	1.81	0.45
46:ON:133:PHE:CE1	46:ON:155:VAL:HG21	2.51	0.45
46:ON:173:PRO:HD3	46:ON:380:ARG:NH1	2.30	0.45
45:PC:88:HIS:HA	45:QC:280:LYS:HE2	1.98	0.45
45:PC:175:PRO:HA	45:PC:390:ARG:CZ	2.47	0.45
46:PD:81:PHE:HD2	46:PD:84:LEU:HD11	1.81	0.45
46:PD:131:GLN:HE22	46:PD:240:LEU:HD11	1.81	0.45
45:PE:345:ASP:OD2	45:PE:346:TRP:N	2.49	0.45
46:PF:86:ARG:NH2	46:QD:282:ARG:HG2	2.31	0.45
45:PI:121:ARG:HA	45:PI:121:ARG:HH11	1.80	0.45
45:PI:192:HIS:ND1	45:PI:424:ASP:OD2	2.48	0.45
46:PJ:260:PHE:CE2	46:PJ:425:TYR:HE1	2.35	0.45
45:PK:9:VAL:HG13	45:PK:139:ASN:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PK:101:ASN:HA	45:PK:144:GLY:H	1.81	0.45
46:PL:12:CYS:O	46:PL:16:ILE:HG12	2.15	0.45
46:PN:58:ARG:HH21	46:PN:83:GLN:NE2	2.14	0.45
46:PN:132:GLY:HA3	46:PN:163:ILE:HG12	1.97	0.45
45:QA:136:LEU:HD11	45:QA:169:PHE:CE2	2.51	0.45
46:QD:101:TRP:HB2	46:QD:184:ASN:HB3	1.98	0.45
46:QD:201:VAL:HG12	46:QD:266:PHE:O	2.16	0.45
46:QH:50:TYR:HE2	46:QH:241:ARG:HD3	1.81	0.45
46:QH:105:HIS:HD2	46:QH:146:GLY:O	1.99	0.45
45:QI:5:ILE:HB	45:QI:135:PHE:HD1	1.82	0.45
46:QL:22:GLU:HG2	46:QL:81:PHE:CD2	2.51	0.45
45:QM:4:VAL:H	45:QM:64:ARG:HH12	1.64	0.45
45:QM:66:VAL:HG11	45:QM:122:ILE:HD11	1.97	0.45
45:RG:184:PRO:O	45:RG:188:ILE:HG12	2.15	0.45
46:RH:222:TYR:O	46:RH:226:ASN:ND2	2.28	0.45
45:RM:64:ARG:NH2	45:RM:129:CYS:SG	2.74	0.45
46:SB:167:PHE:CE1	46:SB:233:MET:HG2	2.52	0.45
46:SB:238:CYS:SG	46:SB:239:CYS:N	2.90	0.45
46:SB:344:TRP:CE3	45:SC:401:LYS:HE3	2.51	0.45
45:SC:74:VAL:O	45:SC:78:VAL:HG23	2.16	0.45
45:SC:395:PHE:CD1	45:SC:422:ARG:HD2	2.51	0.45
46:SD:391:ARG:HA	46:SD:391:ARG:HD2	1.75	0.45
46:SJ:25:SER:OG	46:SJ:51:TYR:OH	2.30	0.45
45:SK:144:GLY:N	47:SK:501:GTP:O2G	2.49	0.45
46:SN:318:ARG:HH11	46:SN:358:PRO:HG3	1.81	0.45
45:TA:262:TYR:OH	46:TB:391:ARG:O	2.30	0.45
46:TB:28:HIS:C	46:TB:43:GLN:HE21	2.20	0.45
45:TC:240:ALA:HA	45:TC:243:ARG:NH1	2.31	0.45
46:TD:86:ARG:HH21	46:TD:87:PRO:HG2	1.81	0.45
46:TJ:105:HIS:CE1	46:TJ:150:LEU:HD12	2.51	0.45
46:TL:226:ASN:HA	46:TL:229:VAL:HG22	1.98	0.45
46:TN:116:VAL:HA	46:TN:119:VAL:HG12	1.98	0.45
46:UF:97:ALA:HB3	46:UF:143:THR:HG22	1.97	0.45
46:UF:287:PRO:HA	46:UF:290:THR:HG22	1.97	0.45
45:UI:2:ARG:O	45:UI:51:THR:HA	2.16	0.45
45:UK:348:PRO:HD2	46:UL:388:MET:HE2	1.98	0.45
46:UL:4:ILE:HG13	46:UL:132:GLY:O	2.17	0.45
46:UL:45:GLU:OE1	46:UL:45:GLU:N	2.50	0.45
46:UL:68:LEU:HD23	46:UL:147:MET:HE1	1.97	0.45
46:UL:150:LEU:O	46:UL:154:LYS:HG2	2.16	0.45
46:UL:189:VAL:HA	46:UL:192:LEU:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UL:204:ASN:HA	46:UL:207:LEU:HD12	1.98	0.45
45:UM:2:ARG:O	45:UM:51:THR:HA	2.16	0.45
46:UN:272:PRO:HB3	46:UN:292:GLN:HE22	1.80	0.45
46:UN:313:ALA:HB1	46:UN:367:PHE:HE1	1.81	0.45
45:VA:282:TYR:OH	45:VA:370:LYS:O	2.24	0.45
45:VG:132:LEU:HD22	45:VG:164:LYS:NZ	2.32	0.45
45:VK:121:ARG:HH21	45:VK:124:LYS:HD2	1.81	0.45
46:WB:47:ILE:HD12	46:WB:59:TYR:CE1	2.46	0.45
45:WE:419:SER:O	45:WE:422:ARG:N	2.50	0.45
46:WF:229:VAL:O	46:WF:233:MET:HG2	2.17	0.45
45:WG:315:CYS:HB3	45:WG:377:MET:CE	2.47	0.45
46:WL:116:VAL:HA	46:WL:119:VAL:HG22	1.96	0.45
46:WL:148:GLY:O	46:WL:152:ILE:HG13	2.16	0.45
45:WM:171:ILE:HG23	45:WM:204:LEU:O	2.16	0.45
45:DC:152:LEU:O	45:DC:156:ARG:HG2	2.16	0.45
45:DC:371:VAL:HG22	45:DC:373:ARG:H	1.81	0.45
11:OS:278:ARG:NH2	46:WB:118:ASP:HB2	2.26	0.45
20:1K:15:ASN:HD21	45:NC:359:PRO:HD3	1.82	0.45
21:1L:837:LYS:HB2	46:BD:39:ASP:OD2	2.15	0.45
28:2F:93:GLU:OE1	45:HE:299:ALA:N	2.49	0.45
31:2I:113:ASP:HB3	45:FC:160:ASP:O	2.17	0.45
23:2O:228:GLN:HB3	46:UJ:56:GLY:CA	2.47	0.45
37:5E:117:ILE:HA	37:5E:118:PRO:HD3	1.83	0.45
37:5F:97:ARG:HH12	46:KF:262:ARG:CZ	2.29	0.45
37:5F:113:LEU:HD11	45:NE:80:THR:HG22	1.98	0.45
37:5G:126:LEU:HD13	45:OI:285:GLN:HE21	1.81	0.45
37:5H:36:PRO:HB2	37:5H:40:TYR:HB2	1.99	0.45
37:5H:145:GLU:OE1	37:5H:149:ARG:NH1	2.49	0.45
10:5Q:1:MET:HB3	10:5Q:3:LYS:HE3	1.97	0.45
34:5R:298:ASP:OD1	34:5R:299:ALA:N	2.49	0.45
34:5R:500:VAL:HG21	46:EJ:32:PRO:HD2	1.99	0.45
39:6F:99:ARG:HD3	39:6F:101:SER:HB3	1.97	0.45
34:6R:500:VAL:HG12	34:6R:500:VAL:O	2.15	0.45
34:7R:311:LYS:HB2	34:7R:311:LYS:HE3	1.62	0.45
45:AC:11:GLN:HG3	45:AC:74:VAL:HG11	1.98	0.45
45:AC:220:GLU:HG2	45:AC:221:ARG:HG3	1.98	0.45
45:AC:238:LEU:HD11	45:AC:255:PHE:CZ	2.51	0.45
45:AC:362:VAL:HG13	45:AC:370:LYS:HD3	1.97	0.45
45:AE:183:GLU:N	45:AE:184:PRO:HD2	2.31	0.45
45:AG:183:GLU:N	45:AG:184:PRO:HD2	2.31	0.45
46:AH:190:HIS:CD2	46:AH:411:ALA:HA	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AK:176:GLN:NE2	45:AK:207:GLU:OE2	2.49	0.45
45:BA:194:LEU:HB2	45:BA:198:THR:OG1	2.17	0.45
46:BB:309:ARG:HG3	46:BB:426:GLN:HE22	1.80	0.45
45:BC:18:ASN:O	45:BC:22:GLU:OE1	2.33	0.45
46:BD:105:HIS:CD2	46:BD:150:LEU:HB2	2.51	0.45
45:BE:31:GLN:CD	45:BE:32:PRO:HD2	2.36	0.45
45:BE:387:VAL:HA	45:BE:390:ARG:HG2	1.98	0.45
46:BH:318:ARG:HH11	46:BH:358:PRO:HG3	1.80	0.45
45:BI:24:PHE:CE1	45:BI:52:PHE:HE2	2.34	0.45
45:BI:216:ASN:HB3	45:BI:275:ILE:O	2.16	0.45
46:BJ:167:PHE:CE1	46:BJ:233:MET:SD	3.09	0.45
45:CC:88:HIS:CE1	45:DC:280:LYS:HE2	2.51	0.45
46:CD:323:THR:HG1	45:CE:224:TYR:HE1	1.63	0.45
46:CF:273:LEU:O	46:CF:282:ARG:NH1	2.47	0.45
45:CG:194:LEU:HD23	45:CG:198:THR:HG21	1.96	0.45
45:CG:346:TRP:CD1	46:CH:391:ARG:HG3	2.51	0.45
46:CJ:149:THR:HA	46:CJ:152:ILE:HD12	1.98	0.45
46:CJ:203:ASP:OD2	46:CJ:302:ALA:N	2.29	0.45
46:CL:86:ARG:NH1	46:CL:88:ASP:HB3	2.32	0.45
46:CL:375:GLN:OE1	46:CL:423:GLN:HB3	2.16	0.45
46:DB:344:TRP:HB3	46:DB:430:ALA:HB2	1.98	0.45
45:DE:205:ASP:OD1	45:DE:303:ALA:HA	2.15	0.45
46:EB:322:SER:OG	46:EB:325:GLU:OE2	2.25	0.45
45:EC:167:LEU:HD21	45:EC:252:ILE:HD11	1.97	0.45
45:EG:207:GLU:HA	45:EG:207:GLU:OE2	2.16	0.45
45:EI:434:GLU:O	45:EI:437:ILE:HG22	2.16	0.45
46:EJ:19:LYS:O	46:EJ:23:VAL:HG23	2.16	0.45
46:EN:100:ASN:ND2	46:EN:103:LYS:HG3	2.31	0.45
46:EN:274:THR:HB	46:EN:282:ARG:HH11	1.82	0.45
45:FA:60:LYS:NZ	45:FA:85:GLN:O	2.38	0.45
45:FA:104:ALA:HB2	45:FA:413:MET:HE2	1.98	0.45
46:FB:260:PHE:HB2	46:FB:263:LEU:HD13	1.98	0.45
45:FC:220:GLU:H	45:FC:220:GLU:CD	2.19	0.45
45:FG:231:ILE:O	45:FG:235:ILE:HG12	2.16	0.45
45:FG:398:MET:HE1	46:FH:345:ILE:HD12	1.98	0.45
45:FI:253:THR:HA	45:FI:256:GLN:HE21	1.80	0.45
46:FJ:221:THR:HG23	46:FJ:224:ASP:H	1.81	0.45
46:FJ:250:LEU:HD12	46:FJ:250:LEU:H	1.81	0.45
46:FL:154:LYS:O	46:FL:157:GLU:HG3	2.16	0.45
45:GA:320:ARG:HD3	45:GA:360:PRO:HG3	1.97	0.45
45:GE:115:VAL:O	45:GE:119:LEU:HD23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GF:68:LEU:HD21	46:GF:147:MET:SD	2.56	0.45
46:GH:406:MET:O	46:GH:410:GLU:HG2	2.16	0.45
46:GJ:133:PHE:HB2	46:GJ:164:MET:SD	2.56	0.45
46:GN:159:TYR:HB3	46:GN:162:ARG:HG2	1.97	0.45
46:GN:319:GLY:HA3	46:GN:363:MET:HE2	1.98	0.45
46:GN:325:GLU:HA	46:GN:328:GLU:HG2	1.98	0.45
46:GN:409:THR:O	46:GN:412:GLU:HG3	2.17	0.45
45:HA:413:MET:HB3	45:HA:417:GLU:OE2	2.15	0.45
46:HB:239:CYS:O	46:HB:247:ASN:ND2	2.46	0.45
45:HC:284:GLU:OE1	45:HC:286:LEU:HD22	2.16	0.45
45:HE:284:GLU:HG2	45:HE:286:LEU:HD22	1.97	0.45
45:HG:68:LEU:HD21	45:HG:118:CYS:HB2	1.98	0.45
46:HH:12:CYS:O	46:HH:16:ILE:HG12	2.15	0.45
46:HJ:22:GLU:HG2	46:HJ:81:PHE:CD1	2.49	0.45
45:HK:390:ARG:HG3	45:HK:391:LEU:HD12	1.98	0.45
46:HL:48:ASN:O	46:HL:62:ARG:NH1	2.48	0.45
46:HN:1:MET:HE3	46:HN:2:ARG:H	1.81	0.45
46:HN:213:ARG:HG3	46:HN:297:LYS:NZ	2.32	0.45
46:HN:391:ARG:HD2	46:HN:391:ARG:HA	1.77	0.45
45:IA:288:VAL:HA	45:IA:291:ILE:HG12	1.97	0.45
46:IB:97:ALA:HA	46:IB:103:LYS:HE3	1.98	0.45
46:ID:201:VAL:O	46:ID:202:ILE:HD13	2.15	0.45
46:ID:417:ASP:O	46:ID:421:GLU:HG2	2.16	0.45
45:IE:286:LEU:O	45:IE:373:ARG:NH2	2.33	0.45
46:IH:72:THR:HG23	46:IH:73:MET:SD	2.56	0.45
46:IJ:16:ILE:HD12	46:IJ:229:VAL:HG11	1.98	0.45
45:IK:68:LEU:HD21	45:IK:118:CYS:HB2	1.97	0.45
46:JB:304:ASP:OD1	46:JB:307:HIS:CE1	2.69	0.45
45:JI:46:ASP:N	45:JI:46:ASP:OD1	2.49	0.45
46:JL:380:ARG:HA	46:JL:383:GLU:HG3	1.98	0.45
46:JN:375:GLN:HG3	46:JN:379:LYS:HZ1	1.81	0.45
45:KC:11:GLN:NE2	45:KC:15:GLN:OE1	2.49	0.45
45:KG:252:ILE:HD12	45:KG:252:ILE:H	1.81	0.45
46:KJ:105:HIS:CD2	46:KJ:150:LEU:HB2	2.51	0.45
46:KL:395:LEU:O	46:KL:399:THR:HG23	2.16	0.45
45:KM:175:PRO:HB3	45:KM:390:ARG:NH1	2.31	0.45
46:KN:325:GLU:HA	46:KN:328:GLU:OE2	2.16	0.45
46:LB:175:VAL:HG21	46:LB:204:ASN:HD21	1.81	0.45
45:LI:183:GLU:N	45:LI:184:PRO:HD2	2.31	0.45
45:LI:238:LEU:HD11	45:LI:255:PHE:CE2	2.51	0.45
46:LJ:100:ASN:HB3	46:LJ:103:LYS:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MA:282:TYR:CE1	45:MA:371:VAL:HG22	2.51	0.45
46:MB:116:VAL:O	46:MB:120:VAL:HG23	2.16	0.45
45:ME:231:ILE:O	45:ME:235:ILE:HG12	2.17	0.45
46:MF:37:HIS:ND1	46:MF:37:HIS:O	2.49	0.45
45:MI:176:GLN:O	46:MJ:347:ASN:ND2	2.48	0.45
46:MJ:238:CYS:HB2	46:MJ:318:ARG:NH1	2.32	0.45
45:MK:260:VAL:HG13	45:MK:265:ILE:O	2.15	0.45
45:MM:224:TYR:CE2	46:MN:323:THR:HG21	2.51	0.45
46:MN:69:GLU:OE1	46:MN:71:GLY:N	2.48	0.45
45:NA:72:PRO:HG2	46:NB:1:MET:CE	2.46	0.45
46:ND:200:MET:N	46:ND:200:MET:SD	2.89	0.45
46:NF:31:ASP:HB2	46:NF:32:PRO:HD2	1.99	0.45
46:NF:321:MET:N	46:NF:321:MET:SD	2.90	0.45
46:NH:64:ILE:HD13	46:NH:119:VAL:HG13	1.99	0.45
46:NH:203:ASP:O	46:NH:207:LEU:HG	2.16	0.45
46:NH:248:SER:HA	46:NH:252:LYS:HD3	1.99	0.45
47:NI:501:GTP:O1G	46:NJ:252:LYS:NZ	2.37	0.45
46:NJ:233:MET:O	46:NJ:236:VAL:HG22	2.16	0.45
45:NM:10:GLY:O	45:NM:14:ILE:HG12	2.15	0.45
45:OA:319:TYR:HE2	45:OA:328:VAL:HG13	1.81	0.45
45:OC:174:SER:HB2	45:OC:177:VAL:O	2.16	0.45
45:OC:178:SER:HB2	46:OD:347:ASN:ND2	2.30	0.45
45:OE:206:ASN:OD1	47:OF:501:GTP:O2'	2.32	0.45
45:OE:331:SER:O	45:OE:335:ILE:HG12	2.16	0.45
45:OG:221:ARG:O	45:OG:221:ARG:HG3	2.16	0.45
46:OH:34:GLY:HA3	46:OH:58:ARG:HG3	1.98	0.45
45:OI:301:MET:HE1	45:OI:307:PRO:HG3	1.99	0.45
46:OL:16:ILE:HD13	46:OL:226:ASN:ND2	2.29	0.45
46:OL:207:LEU:HB3	46:OL:225:LEU:HD22	1.98	0.45
45:OM:174:SER:HB2	45:OM:177:VAL:O	2.16	0.45
45:PA:212:ILE:HD13	45:PA:215:ARG:NH2	2.31	0.45
46:PB:116:VAL:HA	46:PB:119:VAL:HG12	1.99	0.45
46:PD:44:LEU:HA	46:PD:47:ILE:HG23	1.98	0.45
46:PD:256:ASN:ND2	46:PD:350:LYS:HE3	2.32	0.45
46:PF:266:PHE:CE1	46:PF:370:ASN:HB2	2.51	0.45
45:PG:261:PRO:HG3	46:PJ:394:PHE:CE2	2.50	0.45
45:PK:171:ILE:HG21	47:PK:501:GTP:HN22	1.81	0.45
45:PM:386:GLU:O	45:PM:390:ARG:HG2	2.17	0.45
45:QA:211:ASP:O	45:QA:215:ARG:HG2	2.15	0.45
46:QB:16:ILE:HD13	46:QB:226:ASN:OD1	2.16	0.45
46:QD:330:MET:HB2	46:QD:349:ILE:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QE:288:VAL:HA	45:QE:291:ILE:HG12	1.97	0.45
46:QF:252:LYS:HZ2	45:QG:101:ASN:CG	2.18	0.45
45:QG:11:GLN:NE2	45:QG:69:ASP:OD2	2.49	0.45
46:QH:110:ALA:O	46:QH:113:ILE:HG22	2.17	0.45
46:QH:254:ALA:O	46:QH:258:ILE:HG12	2.17	0.45
46:QJ:86:ARG:NH1	46:RJ:282:ARG:HG2	2.30	0.45
45:QK:254:GLU:OE1	46:QL:99:ASN:ND2	2.48	0.45
46:QL:58:ARG:NH1	46:QL:59:TYR:O	2.50	0.45
45:QM:20:CYS:HA	45:QM:232:ALA:HB1	1.96	0.45
45:QM:70:LEU:HD13	45:QM:145:THR:OG1	2.16	0.45
45:RA:141:VAL:HG11	45:RA:172:TYR:HD1	1.81	0.45
45:RA:401:LYS:HE3	45:RA:401:LYS:HB2	1.73	0.45
46:RB:292:GLN:NE2	46:RB:298:ASN:OD1	2.49	0.45
46:RD:260:PHE:HB2	46:RD:263:LEU:HD13	1.98	0.45
45:RG:352:LYS:HZ1	46:RH:178:THR:HA	1.81	0.45
46:RH:116:VAL:HA	46:RH:119:VAL:HG22	1.98	0.45
45:RI:68:LEU:HD11	45:RI:118:CYS:SG	2.56	0.45
46:RJ:42:LEU:HA	46:RJ:45:GLU:HG3	1.97	0.45
45:RM:262:TYR:OH	46:RN:391:ARG:O	2.27	0.45
45:SC:55:GLU:HG3	45:SC:57:GLY:H	1.80	0.45
45:SC:267:PHE:HD2	45:SC:388:PHE:HZ	1.64	0.45
46:SD:4:ILE:HG13	46:SD:132:GLY:O	2.17	0.45
46:SF:226:ASN:HA	46:SF:229:VAL:HG12	1.99	0.45
45:SG:390:ARG:HG3	45:SG:391:LEU:HD12	1.98	0.45
45:SI:209:ILE:CD1	45:SI:227:LEU:HD22	2.47	0.45
46:SJ:320:ARG:HG2	46:SJ:355:ASP:HB3	1.99	0.45
45:SK:402:ARG:HG3	45:SK:405:VAL:HG21	1.98	0.45
46:SL:100:ASN:HB3	46:SL:103:LYS:HB3	1.97	0.45
46:SL:330:MET:HA	46:SL:333:VAL:HG22	1.98	0.45
46:SL:345:ILE:HA	45:SM:398:MET:HE1	1.98	0.45
45:SM:326:LYS:HD3	46:SN:212:PHE:CZ	2.47	0.45
46:TB:241:ARG:HH22	46:TB:318:ARG:NH2	2.15	0.45
45:TC:229:ARG:NH1	45:TC:366:GLY:HA2	2.31	0.45
45:TC:257:THR:HG22	46:TD:100:ASN:HD21	1.79	0.45
45:TE:401:LYS:HE3	45:TE:401:LYS:HB2	1.70	0.45
46:TF:87:PRO:HA	46:TF:90:PHE:CD2	2.52	0.45
45:TI:167:LEU:HD13	45:TI:200:VAL:HB	1.98	0.45
45:TI:414:GLU:HB3	45:TI:417:GLU:OE1	2.17	0.45
46:TJ:225:LEU:O	46:TJ:228:LEU:HG	2.16	0.45
46:TJ:262:ARG:NH1	46:TJ:421:GLU:OE1	2.49	0.45
46:UB:6:HIS:O	46:UB:63:ALA:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:286:VAL:HG21	46:UF:321:MET:HE2	1.98	0.45
46:VB:316:LEU:HB2	46:VB:366:THR:OG1	2.16	0.45
46:VH:105:HIS:CE1	46:VH:150:LEU:HD12	2.51	0.45
45:VI:269:LEU:HD12	45:VI:301:MET:SD	2.56	0.45
46:VJ:97:ALA:HA	46:VJ:103:LYS:HG2	1.98	0.45
46:VJ:204:ASN:HA	46:VJ:207:LEU:HD12	1.98	0.45
46:VL:36:TYR:CZ	46:VL:44:LEU:HD11	2.51	0.45
46:VL:237:THR:HG23	46:VL:241:ARG:NE	2.31	0.45
46:VL:288:GLU:HA	46:VL:291:GLN:HG3	1.98	0.45
46:VN:87:PRO:HA	46:VN:90:PHE:HD2	1.81	0.45
46:VN:312:THR:HG22	46:VN:370:ASN:OD1	2.16	0.45
45:WC:245:ASP:N	45:WC:245:ASP:OD1	2.49	0.45
46:WD:11:GLN:HB3	46:WD:72:THR:HG21	1.97	0.45
45:WE:319:TYR:CE2	45:WE:328:VAL:HG22	2.50	0.45
46:WF:97:ALA:HA	46:WF:103:LYS:HD2	1.98	0.45
45:WG:221:ARG:NE	46:WH:322:SER:OG	2.48	0.45
46:WH:74:ASP:HA	46:WH:77:ARG:HH11	1.81	0.45
46:WH:113:ILE:HD11	46:WH:151:LEU:HB2	1.97	0.45
45:WI:75:ILE:HG23	45:WI:92:LEU:HD12	1.98	0.45
45:WK:212:ILE:HD11	45:WK:300:ASN:HA	1.99	0.45
46:WN:309:ARG:N	46:WN:372:THR:HG1	2.14	0.45
45:CE:172:TYR:OH	45:CE:191:THR:HG22	2.17	0.45
7:OG:38:GLU:OE2	46:JL:359:LYS:HG3	2.16	0.45
4:ID:15:THR:O	46:CF:46:ARG:NH1	2.48	0.45
19:1J:80:LYS:HG2	45:IC:373:ARG:NH2	2.30	0.45
19:1J:302:PHE:HE1	45:IK:280:LYS:HE2	1.80	0.45
14:1V:24:ARG:NH2	45:MI:434:GLU:OE2	2.49	0.45
26:1W:57:ILE:HG22	46:LH:23:VAL:HG22	1.98	0.45
27:2C:6:VAL:HB	15:4X:70:TYR:HE1	1.80	0.45
30:2H:174:PHE:CE2	45:AA:357:TYR:HB2	2.52	0.45
23:2O:145:LYS:HG3	45:VK:372:MET:SD	2.56	0.45
30:3H:177:ASN:ND2	45:AE:357:TYR:CE1	2.85	0.45
15:3X:99:VAL:HG12	45:MK:282:TYR:CE2	2.51	0.45
34:4R:231:TYR:HA	34:4R:234:VAL:HG12	1.98	0.45
36:5B:126:ILE:HD11	46:NH:224:ASP:HA	1.98	0.45
34:5R:32:THR:HG23	34:5R:39:CYS:SG	2.57	0.45
10:6Q:71:ILE:HG21	10:6Q:167:PHE:CD2	2.51	0.45
34:7R:555:ASN:OD1	34:7R:575:ARG:NE	2.48	0.45
45:AA:89:PRO:HD2	45:BA:280:LYS:CE	2.47	0.45
45:AA:223:THR:HG23	45:AA:225:THR:H	1.81	0.45
46:AB:121:ARG:O	46:AB:125:GLU:OE1	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AE:174:SER:HB2	45:AE:177:VAL:O	2.16	0.45
45:AE:383:ALA:O	45:AE:386:GLU:HG2	2.17	0.45
45:AG:174:SER:HB3	45:AG:207:GLU:HG3	1.98	0.45
45:AI:332:ILE:HD12	45:AI:351:PHE:CE2	2.52	0.45
46:AJ:86:ARG:HE	46:AJ:87:PRO:HD2	1.81	0.45
46:AJ:208:TYR:CE2	46:AJ:225:LEU:HD11	2.51	0.45
46:AN:19:LYS:HA	46:AN:19:LYS:HD2	1.76	0.45
46:AN:287:PRO:HG3	46:AN:329:GLN:NE2	2.31	0.45
46:BD:293:MET:SD	46:BD:365:VAL:HG11	2.56	0.45
45:BG:329:ASN:HA	45:BG:332:ILE:HG22	1.98	0.45
46:BJ:342:VAL:HG22	46:BJ:344:TRP:HD1	1.81	0.45
46:BL:410:GLU:O	46:BL:413:SER:OG	2.23	0.45
45:BM:27:GLU:OE1	45:BM:236:SER:OG	2.33	0.45
46:BN:86:ARG:HD2	46:CL:281:TYR:CD1	2.51	0.45
46:BN:116:VAL:O	46:BN:119:VAL:HG12	2.17	0.45
45:CA:55:GLU:HA	45:CA:55:GLU:OE2	2.16	0.45
46:CF:46:ARG:NH2	45:CG:76:ASP:OD2	2.46	0.45
46:CJ:16:ILE:HD12	46:CJ:229:VAL:HG11	1.98	0.45
46:CL:207:LEU:HD13	46:CL:225:LEU:HB2	1.97	0.45
45:CM:5:ILE:HB	45:CM:135:PHE:CD1	2.50	0.45
45:CM:270:SER:OG	45:CM:271:SER:N	2.50	0.45
45:DA:258:ASN:HD21	46:DB:178:THR:HG23	1.81	0.45
45:DA:292:THR:HG21	45:DA:331:SER:HB3	1.97	0.45
46:DD:73:MET:HB2	46:DD:90:PHE:CD1	2.52	0.45
46:DD:420:SER:O	46:DD:424:GLN:HG2	2.16	0.45
46:DF:102:ALA:HB2	46:DF:398:TYR:HD1	1.80	0.45
45:DG:269:LEU:HD22	45:DG:305:CYS:SG	2.56	0.45
46:DJ:163:ILE:HA	46:DJ:197:ASP:OD2	2.16	0.45
46:DJ:208:TYR:HE1	46:DJ:225:LEU:HD11	1.80	0.45
46:DJ:323:THR:HG21	45:DK:224:TYR:CE1	2.52	0.45
46:DL:310:TYR:HD2	46:DL:371:SER:HB2	1.81	0.45
46:DL:322:SER:OG	45:DM:221:ARG:HD2	2.15	0.45
46:EB:87:PRO:HA	46:EB:90:PHE:CE2	2.52	0.45
46:EB:318:ARG:HG2	46:EB:354:CYS:SG	2.56	0.45
46:ED:257:LEU:HD12	46:ED:312:THR:HG23	1.98	0.45
46:EJ:6:HIS:CE1	46:EJ:8:GLN:HB2	2.51	0.45
45:EK:174:SER:HA	45:EK:205:ASP:OD2	2.15	0.45
46:EL:259:PRO:HG2	46:EL:311:LEU:HD21	1.98	0.45
46:EN:210:ILE:O	46:EN:214:THR:OG1	2.30	0.45
45:FA:136:LEU:HD21	45:FA:138:PHE:CE1	2.51	0.45
46:FB:372:THR:HA	46:FB:422:TYR:HE2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FD:11:GLN:HA	46:FD:72:THR:HG21	1.97	0.45
45:FE:192:HIS:CD2	45:FE:421:ALA:HA	2.51	0.45
45:FE:256:GLN:O	46:FH:397:TRP:NE1	2.49	0.45
45:FI:172:TYR:OH	45:FI:191:THR:HG22	2.16	0.45
45:FI:212:ILE:HD11	45:FI:300:ASN:HA	1.98	0.45
45:FI:241:SER:OG	45:FI:250:VAL:O	2.30	0.45
45:FK:172:TYR:OH	45:FK:191:THR:HG22	2.16	0.45
45:FK:394:LYS:HE3	45:FK:394:LYS:HA	1.97	0.45
46:FL:321:MET:N	46:FL:321:MET:SD	2.90	0.45
46:FN:49:VAL:HG12	46:FN:50:TYR:CD1	2.52	0.45
46:GB:10:GLY:O	46:GB:14:ASN:ND2	2.50	0.45
45:GE:184:PRO:O	45:GE:188:ILE:HG12	2.16	0.45
46:GN:285:THR:HB	46:GN:287:PRO:HD2	1.98	0.45
45:HA:316:SER:HA	45:HA:352:LYS:HB3	1.98	0.45
45:HA:352:LYS:HZ1	46:HD:178:THR:HA	1.80	0.45
46:HB:282:ARG:NH2	46:HB:288:GLU:OE1	2.35	0.45
46:HD:207:LEU:HB3	46:HD:225:LEU:HD22	1.98	0.45
45:HI:296:PHE:HE2	45:HI:335:ILE:HG21	1.80	0.45
46:HJ:201:VAL:HG23	46:HJ:301:CYS:SG	2.56	0.45
45:HK:119:LEU:HD11	45:HK:160:ASP:OD2	2.17	0.45
45:HK:319:TYR:CE2	45:HK:328:VAL:HG22	2.51	0.45
46:HL:31:ASP:HB2	46:HL:32:PRO:HD2	1.98	0.45
46:IB:3:GLU:HG3	46:IB:62:ARG:NH1	2.31	0.45
46:IB:22:GLU:HG2	46:IB:81:PHE:CD1	2.51	0.45
46:IB:286:VAL:CG2	46:IB:287:PRO:HD3	2.46	0.45
45:IC:39:ASP:OD2	45:IC:40:LYS:N	2.49	0.45
46:ID:9:GLY:HA2	46:ID:66:MET:O	2.16	0.45
46:ID:306:ARG:HD2	46:ID:340:TYR:CZ	2.51	0.45
46:ID:380:ARG:HG3	46:ID:381:VAL:N	2.32	0.45
45:II:284:GLU:HG3	45:II:286:LEU:HD22	1.98	0.45
46:IJ:396:HIS:CD2	46:IJ:397:TRP:CD1	3.05	0.45
46:IL:163:ILE:HA	46:IL:197:ASP:OD1	2.17	0.45
46:IN:332:ASN:OD1	46:IN:336:LYS:HE3	2.17	0.45
46:JB:6:HIS:CE1	46:JB:8:GLN:HB3	2.52	0.45
45:JC:142:GLY:CA	45:JC:183:GLU:HG3	2.47	0.45
45:JC:250:VAL:HG13	45:JC:254:GLU:HB2	1.99	0.45
46:JL:166:THR:OG1	46:JL:199:CYS:HA	2.17	0.45
45:KA:88:HIS:HE2	45:KA:90:GLU:HG2	1.82	0.45
46:KB:5:VAL:HA	46:KB:62:ARG:HG3	1.99	0.45
45:KC:192:HIS:ND1	45:KC:424:ASP:OD1	2.49	0.45
45:KE:56:THR:OG1	45:LE:283:HIS:O	2.26	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:342:GLN:OE1	45:KE:342:GLN:N	2.49	0.45
45:KG:172:TYR:HD1	45:KG:173:PRO:HD2	1.81	0.45
46:KN:12:CYS:SG	46:KN:169:VAL:HG21	2.56	0.45
45:LC:123:ARG:NH1	45:MC:338:LYS:HE2	2.31	0.45
46:LD:374:ILE:HG22	46:LD:422:TYR:CE2	2.51	0.45
45:LE:55:GLU:OE2	45:LE:56:THR:N	2.49	0.45
45:LE:223:THR:HG22	45:LE:224:TYR:N	2.30	0.45
46:LF:67:ASP:OD2	46:LF:68:LEU:N	2.50	0.45
46:LF:276:ARG:HG3	46:LF:276:ARG:HH11	1.81	0.45
46:LL:133:PHE:HB2	46:LL:164:MET:SD	2.56	0.45
46:LN:100:ASN:HB3	46:LN:103:LYS:HG3	1.98	0.45
45:MA:49:PHE:HE2	45:MA:55:GLU:HG2	1.81	0.45
45:MA:63:PRO:HG2	45:MA:87:PHE:CE2	2.50	0.45
46:MB:12:CYS:O	46:MB:16:ILE:HG12	2.17	0.45
46:MB:104:GLY:HA3	46:MB:143:THR:HA	1.98	0.45
46:MB:334:GLN:HA	46:MB:341:PHE:HE2	1.81	0.45
46:ML:167:PHE:CZ	46:ML:233:MET:HG3	2.51	0.45
45:MM:98:ASP:OD1	45:MM:99:ALA:N	2.49	0.45
46:MN:151:LEU:O	46:MN:155:VAL:HG22	2.15	0.45
46:MN:401:GLU:N	46:MN:401:GLU:OE2	2.50	0.45
46:NH:3:GLU:OE2	46:NH:127:CYS:HB2	2.17	0.45
46:NJ:262:ARG:NE	46:NJ:421:GLU:OE2	2.49	0.45
46:NN:309:ARG:HH21	46:NN:342:VAL:HA	1.81	0.45
46:NN:332:ASN:OD1	46:NN:333:VAL:N	2.49	0.45
46:NN:342:VAL:HG13	46:NN:345:ILE:HG22	1.99	0.45
46:OB:32:PRO:HA	46:OB:84:LEU:HD21	1.98	0.45
45:OE:221:ARG:HA	45:OE:221:ARG:HD2	1.78	0.45
46:OJ:253:LEU:O	46:OJ:257:LEU:HG	2.16	0.45
46:OJ:344:TRP:CE3	46:OJ:345:ILE:HG23	2.51	0.45
46:OL:118:ASP:O	46:OL:121:ARG:HG2	2.17	0.45
45:OM:3:GLU:N	45:OM:3:GLU:OE1	2.49	0.45
45:OM:174:SER:HB3	45:OM:207:GLU:OE1	2.16	0.45
45:PA:88:HIS:O	45:PA:91:GLN:HG2	2.16	0.45
45:PA:329:ASN:HB2	46:PD:175:VAL:HG12	1.98	0.45
45:PC:51:THR:HG23	45:PC:52:PHE:CD2	2.51	0.45
45:PC:214:ARG:HE	45:PC:215:ARG:NH1	2.15	0.45
45:PE:56:THR:HG23	45:PE:58:ALA:H	1.81	0.45
45:PG:60:LYS:HG2	45:PG:61:HIS:N	2.31	0.45
45:PI:171:ILE:HG23	45:PI:204:LEU:O	2.17	0.45
45:PI:200:VAL:HG13	45:PI:268:MET:CE	2.46	0.45
46:PL:103:LYS:HE3	46:PL:103:LYS:HB2	1.62	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PN:153:SER:HA	46:PN:195:ASN:HD22	1.81	0.45
46:QB:273:LEU:N	46:QB:292:GLN:HE22	2.13	0.45
45:QE:31:GLN:OE1	45:QE:37:PRO:HD3	2.16	0.45
45:QE:184:PRO:O	45:QE:188:ILE:HG12	2.17	0.45
45:QG:332:ILE:O	45:QG:335:ILE:HG12	2.17	0.45
46:QJ:239:CYS:HB2	46:QJ:316:LEU:HD11	1.98	0.45
46:QL:134:GLN:HA	46:QL:165:GLU:O	2.17	0.45
45:QM:109:THR:HB	45:QM:110:ILE:HD12	1.98	0.45
46:RD:255:VAL:HA	45:RE:407:TRP:CH2	2.51	0.45
46:RF:262:ARG:HG3	46:RF:263:LEU:HD12	1.98	0.45
46:RH:167:PHE:CZ	46:RH:200:MET:HG3	2.51	0.45
45:RI:31:GLN:HE21	45:RI:35:GLN:HB3	1.81	0.45
46:SB:23:VAL:HG21	46:SB:230:SER:HB3	1.98	0.45
45:SE:127:ASP:OD1	45:SE:128:ASN:N	2.50	0.45
45:SG:387:VAL:HA	45:SG:390:ARG:HG2	1.98	0.45
45:SK:124:LYS:HA	45:SK:124:LYS:HD3	1.79	0.45
46:SL:342:VAL:HG13	46:SL:345:ILE:HG22	1.97	0.45
45:TA:244:PHE:HB2	45:TA:356:ASN:HD21	1.80	0.45
45:TC:268:MET:HB2	45:TC:379:SER:O	2.15	0.45
46:TD:253:LEU:HA	46:TD:350:LYS:HZ1	1.82	0.45
45:TE:151:SER:O	45:TE:155:GLU:OE1	2.34	0.45
45:TG:49:PHE:HD1	45:TG:53:PHE:HB2	1.82	0.45
45:TG:68:LEU:HD13	45:TG:93:ILE:HB	1.98	0.45
46:TJ:267:MET:HB2	46:TJ:299:MET:HE2	1.97	0.45
45:TK:248:LEU:HD12	45:TK:355:ILE:HD12	1.97	0.45
46:TL:164:MET:N	46:TL:197:ASP:OD2	2.50	0.45
46:TL:393:ALA:HB1	46:TL:394:PHE:HD1	1.81	0.45
45:UC:31:GLN:HG3	45:UC:37:PRO:HD3	1.98	0.45
46:UD:324:LYS:HE3	45:UE:210:TYR:CD1	2.51	0.45
46:UD:372:THR:HA	46:UD:422:TYR:CE2	2.48	0.45
45:UE:174:SER:HB2	45:UE:177:VAL:HB	1.98	0.45
46:UF:238:CYS:SG	46:UF:239:CYS:N	2.90	0.45
46:UH:41:ASP:OD1	46:UH:42:LEU:HD12	2.17	0.45
45:UI:32:PRO:HB3	45:UI:83:TYR:CE1	2.51	0.45
45:UI:254:GLU:HG2	46:UJ:98:GLY:HA2	1.98	0.45
46:UJ:46:ARG:NH1	46:UJ:240:LEU:O	2.46	0.45
45:UM:88:HIS:O	45:UM:91:GLN:HG2	2.16	0.45
45:UM:256:GLN:OE1	46:UN:397:TRP:NE1	2.49	0.45
45:UM:326:LYS:HB3	46:UN:208:TYR:HE2	1.80	0.45
45:VE:298:PRO:O	45:VE:301:MET:HG2	2.16	0.45
45:VE:332:ILE:HD11	45:VE:351:PHE:CG	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:242:LEU:HD11	45:VG:252:ILE:HG23	1.98	0.45
46:VJ:68:LEU:HB3	46:VJ:96:GLY:HA2	1.98	0.45
46:VJ:260:PHE:HB3	46:VJ:262:ARG:NH2	2.31	0.45
45:VK:254:GLU:O	45:VK:255:PHE:HD2	2.00	0.45
45:WA:185:TYR:HA	45:WA:395:PHE:HE1	1.80	0.45
45:WA:231:ILE:O	45:WA:235:ILE:HG12	2.16	0.45
46:WB:77:ARG:HH21	46:WB:83:GLN:NE2	2.09	0.45
46:WB:304:ASP:HB3	46:WB:307:HIS:ND1	2.31	0.45
46:WD:229:VAL:O	46:WD:233:MET:HG2	2.17	0.45
45:WE:214:ARG:HG2	45:WE:214:ARG:HH11	1.81	0.45
46:WJ:97:ALA:O	46:WJ:103:LYS:HE2	2.16	0.45
45:WK:203:MET:HG3	45:WK:384:ILE:HD11	1.99	0.45
46:WL:23:VAL:O	46:WL:27:GLU:OE1	2.34	0.45
46:WN:344:TRP:HB3	46:WN:430:ALA:HB2	1.99	0.45
45:DC:37:PRO:O	45:DC:38:SER:OG	2.27	0.45
23:1O:278:ARG:NH2	45:UA:221:ARG:H	2.14	0.45
25:1R:458:ILE:CG1	46:FD:276:ARG:HH12	2.26	0.45
23:3O:373:ARG:NH1	45:UI:282:TYR:H	2.14	0.45
25:3R:181:PHE:CE2	46:AN:80:PRO:HB3	2.51	0.45
35:4S:162:LEU:HD13	35:4S:165:ILE:HD11	1.98	0.45
35:4S:180:VAL:HA	35:4S:183:TYR:CZ	2.51	0.45
37:5E:148:GLN:O	37:5E:151:GLU:HG3	2.16	0.45
37:5F:11:TRP:HB3	37:5F:14:ARG:NH1	2.32	0.45
37:5F:45:PRO:C	37:5F:48:ARG:HH22	2.19	0.45
37:5F:60:TRP:CZ3	46:OF:279:GLN:HG2	2.51	0.45
37:5G:164:LYS:H	37:5G:165:PRO:HD3	1.82	0.45
37:5H:60:TRP:HA	46:ON:279:GLN:NE2	2.31	0.45
10:5Q:9:GLY:C	10:5Q:10:PHE:HD1	2.19	0.45
35:5S:162:LEU:HD23	35:5S:217:LEU:HB3	1.98	0.45
41:6H:323:TYR:HB2	41:6H:324:ARG:HD3	1.97	0.45
34:6R:534:HIS:CE1	34:6R:578:TYR:HH	2.33	0.45
44:8R:180:TYR:OH	45:PG:282:TYR:HB2	2.17	0.45
46:AB:156:ARG:NH1	46:AB:162:ARG:O	2.47	0.45
45:AC:115:VAL:O	45:AC:119:LEU:HD23	2.16	0.45
45:AC:282:TYR:O	45:MC:60:LYS:NZ	2.49	0.45
45:AM:276:ILE:HD12	45:AM:281:ALA:HA	1.98	0.45
45:BA:340:THR:HG23	45:BA:341:ILE:HG13	1.98	0.45
45:BC:326:LYS:CE	46:BF:219:THR:HA	2.44	0.45
46:BD:398:TYR:O	46:BD:403:MET:HB2	2.16	0.45
45:BE:88:HIS:ND1	45:BE:90:GLU:HG3	2.31	0.45
45:BG:210:TYR:CE1	46:BH:324:LYS:HE3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:151:SER:O	45:BK:155:GLU:OE1	2.34	0.45
45:BK:397:LEU:HD23	46:BL:346:PRO:HD3	1.98	0.45
46:BL:252:LYS:O	46:BL:256:ASN:ND2	2.50	0.45
46:BN:214:THR:CG2	46:BN:297:LYS:HE2	2.47	0.45
45:CA:67:PHE:HB2	45:CA:92:LEU:HG	1.99	0.45
46:CB:317:PHE:CE1	46:CB:326:VAL:HG13	2.52	0.45
45:CC:326:LYS:HG3	45:CC:327:ASP:N	2.30	0.45
45:CG:154:LEU:HD22	45:CG:166:LYS:HD3	1.98	0.45
46:CH:350:LYS:HD3	46:CH:351:SER:N	2.31	0.45
45:CI:335:ILE:HD13	45:CI:338:LYS:HE3	1.98	0.45
45:CI:353:VAL:HG22	46:CJ:177:ASP:HB2	1.98	0.45
46:CN:282:ARG:NH2	46:CN:292:GLN:OE1	2.45	0.45
46:DB:73:MET:HA	46:DB:76:VAL:HG12	1.98	0.45
45:DI:174:SER:OG	45:DI:207:GLU:OE1	2.34	0.45
45:DM:208:ALA:O	45:DM:212:ILE:HG12	2.16	0.45
46:EB:200:MET:HE2	46:EB:266:PHE:HB2	1.99	0.45
45:EC:329:ASN:HA	45:EC:332:ILE:HG12	1.98	0.45
46:EF:330:MET:HA	46:EF:333:VAL:HG12	1.98	0.45
45:EG:73:THR:O	45:EG:76:ASP:HB2	2.17	0.45
46:EH:293:MET:HG2	46:EH:365:VAL:HG11	1.98	0.45
46:EH:372:THR:HA	46:EH:422:TYR:HE2	1.81	0.45
45:EI:31:GLN:HG3	45:EI:33:ASP:H	1.81	0.45
46:EL:324:LYS:O	46:EL:327:ASP:N	2.50	0.45
45:FA:270:SER:HB2	45:FA:378:ILE:CD1	2.47	0.45
46:FD:113:ILE:HA	46:FD:116:VAL:HG12	1.97	0.45
46:FD:268:ILE:HG22	46:FD:368:VAL:HG22	1.97	0.45
46:FD:321:MET:N	46:FD:321:MET:SD	2.90	0.45
45:FE:107:HIS:ND1	45:FE:107:HIS:O	2.50	0.45
45:FE:326:LYS:HE3	46:FH:220:PRO:HD2	1.99	0.45
46:FF:210:ILE:O	46:FF:214:THR:HG22	2.16	0.45
45:FG:221:ARG:CZ	46:FH:322:SER:H	2.30	0.45
46:FH:11:GLN:O	46:FH:15:GLN:HG2	2.15	0.45
45:FK:68:LEU:HD21	45:FK:118:CYS:SG	2.57	0.45
46:FL:7:ILE:CG2	46:FL:135:ILE:HG13	2.47	0.45
46:FN:238:CYS:SG	46:FN:239:CYS:N	2.90	0.45
45:GA:430:LYS:O	45:GA:433:GLU:HG3	2.17	0.45
45:GE:280:LYS:HA	45:GE:283:HIS:HD2	1.82	0.45
46:GF:391:ARG:HA	46:GF:391:ARG:HD2	1.73	0.45
46:GH:395:LEU:O	46:GH:399:THR:HG23	2.15	0.45
46:GJ:60:VAL:HG21	46:HJ:281:TYR:CE1	2.52	0.45
46:GL:324:LYS:O	46:GL:328:GLU:OE1	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:312:THR:HG22	46:GN:370:ASN:HB3	1.97	0.45
45:HA:240:ALA:HA	45:HA:243:ARG:CZ	2.47	0.45
46:HB:303:ALA:HB2	46:HB:377:MET:HE1	1.96	0.45
45:HK:208:ALA:HB2	45:HK:304:LYS:HG3	1.97	0.45
46:HL:32:PRO:HB3	46:HL:81:PHE:HD2	1.81	0.45
46:HN:304:ASP:HB3	46:HN:307:HIS:HE1	1.81	0.45
45:IA:107:HIS:ND1	45:IA:107:HIS:O	2.50	0.45
46:IB:130:LEU:HD21	46:IB:133:PHE:HE1	1.81	0.45
45:IC:325:PRO:HG3	45:IC:355:ILE:HD13	1.98	0.45
46:ID:19:LYS:HD3	46:ID:226:ASN:HB2	1.97	0.45
46:ID:284:LEU:HB2	46:ID:362:LYS:NZ	2.31	0.45
46:IF:99:ASN:HA	46:IF:142:GLY:H	1.81	0.45
46:IN:45:GLU:HG3	46:IN:46:ARG:CD	2.47	0.45
46:JB:294:PHE:CD1	46:JB:333:VAL:HG21	2.51	0.45
45:JG:186:ASN:OD1	45:JG:408:TYR:OH	2.32	0.45
45:JG:404:PHE:CD1	46:JH:259:PRO:HA	2.50	0.45
45:JK:88:HIS:HB2	45:JK:91:GLN:HE21	1.81	0.45
45:KC:252:ILE:HD12	45:KC:252:ILE:H	1.81	0.45
45:KM:14:ILE:HD11	45:KM:69:ASP:HB2	1.98	0.45
46:LD:371:SER:O	46:LD:422:TYR:OH	2.21	0.45
45:LE:271:SER:HB3	45:LE:377:MET:HB3	1.97	0.45
45:LG:210:TYR:HB3	46:LH:324:LYS:NZ	2.32	0.45
45:LG:434:GLU:O	45:LG:437:ILE:HG12	2.17	0.45
46:LJ:372:THR:HA	46:LJ:422:TYR:HE2	1.81	0.45
46:LL:359:LYS:HB2	46:LL:359:LYS:HE2	1.63	0.45
46:LN:284:LEU:HD23	46:LN:284:LEU:HA	1.86	0.45
46:MB:179:VAL:HG23	46:MB:180:VAL:HG23	1.98	0.45
45:MC:311:LYS:N	45:MC:382:THR:OG1	2.50	0.45
46:MF:328:GLU:OE2	46:MF:329:GLN:HG2	2.16	0.45
46:MH:268:ILE:HG22	46:MH:368:VAL:HG22	1.99	0.45
46:MJ:51:TYR:HE2	46:MJ:61:PRO:HG3	1.82	0.45
46:MJ:156:ARG:NH1	46:MJ:160:PRO:HA	2.32	0.45
45:MK:174:SER:OG	45:MK:207:GLU:HG3	2.17	0.45
46:ML:273:LEU:H	46:ML:292:GLN:HE22	1.62	0.45
45:MM:101:ASN:N	46:MN:252:LYS:HZ3	2.14	0.45
46:NB:137:HIS:HE1	46:NB:166:THR:HB	1.82	0.45
46:ND:122:LYS:NZ	46:OD:291:GLN:HB3	2.31	0.45
46:ND:272:PRO:HG3	46:ND:284:LEU:HG	1.99	0.45
46:ND:342:VAL:HG13	46:ND:345:ILE:HG22	1.99	0.45
46:ND:379:LYS:O	46:ND:383:GLU:OE1	2.35	0.45
46:NF:304:ASP:HB3	46:NF:307:HIS:ND1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NK:285:GLN:OE1	45:NK:373:ARG:NH2	2.48	0.45
45:NK:394:LYS:HZ2	46:NL:346:PRO:HG2	1.80	0.45
46:NL:9:GLY:HA3	46:NL:66:MET:SD	2.56	0.45
46:NN:19:LYS:HA	46:NN:22:GLU:OE2	2.15	0.45
46:NN:342:VAL:HG22	46:NN:344:TRP:CD1	2.52	0.45
45:OA:153:LEU:O	45:OA:157:LEU:HG	2.16	0.45
45:OE:285:GLN:HG3	45:OE:287:SER:HB2	1.98	0.45
45:OI:398:MET:CE	46:OJ:346:PRO:HD2	2.46	0.45
45:OK:152:LEU:O	45:OK:155:GLU:HG3	2.16	0.45
46:ON:239:CYS:SG	46:ON:247:ASN:HA	2.57	0.45
46:PD:232:ALA:HB1	46:PD:268:ILE:HD12	1.99	0.45
45:PI:209:ILE:HG21	45:PI:227:LEU:HG	1.97	0.45
46:PJ:19:LYS:NZ	46:PJ:227:HIS:HB2	2.31	0.45
45:PK:11:GLN:NE2	47:PK:501:GTP:O2A	2.38	0.45
45:PK:205:ASP:OD1	45:PK:303:ALA:HA	2.16	0.45
46:PL:350:LYS:HE2	46:PL:350:LYS:HA	1.99	0.45
45:PM:226:ASN:HA	45:PM:229:ARG:HD2	1.97	0.45
46:PN:238:CYS:SG	46:PN:239:CYS:N	2.90	0.45
45:QC:269:LEU:HD23	45:QC:379:SER:O	2.17	0.45
46:QD:167:PHE:CE2	46:QD:200:MET:HG3	2.52	0.45
46:QF:6:HIS:NE2	46:QF:8:GLN:HB3	2.32	0.45
46:QF:252:LYS:HA	45:QG:100:ALA:HB1	1.98	0.45
46:QH:341:PHE:HD2	46:QH:348:ASN:HD21	1.63	0.45
46:QH:375:GLN:HB2	46:QH:379:LYS:HZ2	1.81	0.45
45:QK:314:ALA:HB3	45:QK:380:ASN:OD1	2.15	0.45
46:QL:226:ASN:HA	46:QL:229:VAL:HG12	1.99	0.45
46:QL:266:PHE:CE2	46:QL:370:ASN:HB2	2.52	0.45
45:RC:76:ASP:HA	45:RC:79:ARG:HG2	1.99	0.45
46:RD:258:ILE:O	46:RD:258:ILE:HG13	2.16	0.45
45:RE:138:PHE:HD1	45:RE:169:PHE:HB2	1.81	0.45
45:RI:324:VAL:O	45:RI:328:VAL:HG23	2.17	0.45
46:RJ:31:ASP:OD1	46:RJ:37:HIS:ND1	2.49	0.45
45:RK:206:ASN:HB3	45:RK:210:TYR:CZ	2.51	0.45
46:RL:23:VAL:O	46:RL:27:GLU:OE1	2.33	0.45
46:RL:183:TYR:HE2	46:RL:394:PHE:HB2	1.82	0.45
46:RL:324:LYS:O	46:RL:327:ASP:OD1	2.35	0.45
45:SC:408:TYR:HB3	45:SC:413:MET:SD	2.56	0.45
45:SE:326:LYS:HG3	45:SE:327:ASP:N	2.32	0.45
46:SF:256:ASN:HD22	46:SF:350:LYS:CD	2.29	0.45
45:SG:7:ILE:HB	45:SG:137:VAL:HG12	1.98	0.45
45:SI:98:ASP:O	45:SI:105:ARG:NH1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SI:145:THR:HG22	47:SI:501:GTP:PG	2.57	0.45
46:SJ:32:PRO:HA	46:SJ:84:LEU:HD11	1.98	0.45
46:SJ:156:ARG:HH12	46:SJ:197:ASP:CG	2.19	0.45
46:TB:134:GLN:HB3	46:TB:165:GLU:OE2	2.15	0.45
46:TB:164:MET:O	46:TB:197:ASP:HB2	2.16	0.45
45:TE:103:PHE:HB3	45:TE:408:TYR:HE2	1.81	0.45
45:TE:184:PRO:O	45:TE:188:ILE:HG12	2.17	0.45
46:TF:213:ARG:O	46:TF:216:LYS:HE3	2.16	0.45
45:TI:311:LYS:N	45:TI:382:THR:OG1	2.49	0.45
46:TN:221:THR:HG23	46:TN:224:ASP:H	1.80	0.45
46:UB:164:MET:HE3	46:UB:165:GLU:H	1.81	0.45
46:UD:101:TRP:HB3	46:UD:398:TYR:CE1	2.49	0.45
45:UE:211:ASP:OD2	45:UE:304:LYS:NZ	2.42	0.45
46:UF:1:MET:N	46:UF:48:ASN:OD1	2.50	0.45
46:UF:296:ALA:HB3	46:UF:297:LYS:HZ2	1.80	0.45
45:UG:260:VAL:HG13	45:UG:265:ILE:O	2.16	0.45
45:UG:268:MET:HG3	45:UG:380:ASN:HB2	1.98	0.45
46:UH:276:ARG:HG2	46:UH:276:ARG:HH11	1.81	0.45
46:UJ:321:MET:HA	45:UK:221:ARG:NH2	2.18	0.45
45:UK:3:GLU:N	45:UK:133:GLN:OE1	2.37	0.45
46:UN:226:ASN:HA	46:UN:229:VAL:HG22	1.98	0.45
45:VA:3:GLU:HG3	45:VA:129:CYS:SG	2.57	0.45
46:VD:310:TYR:CD1	46:VD:371:SER:HB2	2.52	0.45
45:VE:175:PRO:HG3	45:VE:390:ARG:NH1	2.31	0.45
45:VE:207:GLU:HA	45:VE:210:TYR:CD2	2.50	0.45
45:VE:334:THR:HA	45:VE:337:THR:HG22	1.98	0.45
46:VF:123:GLU:OE1	46:VF:123:GLU:HA	2.16	0.45
45:VG:179:THR:HG22	46:VH:350:LYS:NZ	2.32	0.45
45:VG:414:GLU:OE2	45:VG:417:GLU:N	2.48	0.45
45:VK:286:LEU:HA	45:VK:290:GLU:OE2	2.17	0.45
46:VL:326:VAL:O	46:VL:330:MET:HG2	2.16	0.45
45:VM:403:ALA:HA	46:VN:260:PHE:CE1	2.47	0.45
46:VN:28:HIS:C	46:VN:43:GLN:HE21	2.20	0.45
46:VN:266:PHE:HE1	46:VN:370:ASN:HD22	1.64	0.45
46:VN:285:THR:HB	46:VN:287:PRO:HD2	1.97	0.45
45:WC:398:MET:HE3	46:WD:346:PRO:HD2	1.97	0.45
46:WJ:67:ASP:OD1	46:WJ:68:LEU:N	2.48	0.45
46:WL:47:ILE:HD12	46:WL:59:TYR:HE1	1.80	0.45
45:WM:175:PRO:C	45:WM:390:ARG:HH12	2.20	0.45
46:WN:421:GLU:HA	46:WN:424:GLN:HG2	1.97	0.45
4:0D:225:ARG:HH12	34:7R:589:MET:HE2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:1B:1:MET:HG2	46:LD:359:LYS:HA	1.98	0.45
21:1L:555:LYS:HG2	46:BF:320:ARG:HH12	1.81	0.45
23:2O:373:ARG:HH22	45:VC:283:HIS:CD2	2.35	0.45
11:2S:275:TYR:HA	46:WJ:122:LYS:NZ	2.31	0.45
1:3A:36:ARG:HH11	46:MN:42:LEU:HD21	1.80	0.45
15:3X:45:GLN:HE22	45:MM:282:TYR:HB3	1.82	0.45
33:4F:8:TYR:CE2	45:GI:84:ARG:HB2	2.51	0.45
34:4R:107:PRO:HA	46:BH:360:GLY:HA3	1.97	0.45
15:4X:3:ARG:H	46:LL:75:SER:HB2	1.82	0.45
36:5C:32:ALA:O	36:5C:34:PHE:N	2.49	0.45
36:5C:54:ARG:HD3	36:5C:55:ALA:O	2.17	0.45
36:5C:146:VAL:HG11	45:NK:225:THR:HG21	1.99	0.45
36:5C:158:ASN:ND2	45:KK:386:GLU:OE2	2.38	0.45
37:5E:118:PRO:O	37:5E:124:TYR:OH	2.34	0.45
37:5F:129:ARG:NH2	37:5F:130:PRO:HD2	2.32	0.45
37:5F:179:TYR:CD1	45:KG:410:GLY:HA2	2.47	0.45
37:5G:120:GLU:OE1	37:5G:121:GLU:HG2	2.17	0.45
37:5H:85:GLN:OE1	37:5H:87:LEU:HG	2.17	0.45
34:5R:311:LYS:HA	34:5R:329:TYR:CE1	2.51	0.45
10:6Q:33:HIS:NE2	10:6Q:50:MET:HB3	2.31	0.45
34:6R:167:VAL:HG21	34:6R:201:PRO:HB3	1.97	0.45
46:AH:69:GLU:CD	46:AH:71:GLY:H	2.20	0.45
46:AH:290:THR:O	46:AH:293:MET:HB3	2.17	0.45
46:AL:199:CYS:HB3	46:AL:265:PHE:HD2	1.81	0.45
45:AM:2:ARG:HD3	45:AM:2:ARG:H	1.81	0.45
45:AM:321:GLY:HA3	45:AM:372:MET:O	2.16	0.45
46:BB:240:LEU:HD11	46:BB:250:LEU:HG	1.99	0.45
45:BE:251:ASP:OD1	45:BE:254:GLU:HG2	2.16	0.45
46:BF:391:ARG:HA	46:BF:391:ARG:HD2	1.76	0.45
45:BG:109:THR:HG22	45:BG:110:ILE:HG23	1.98	0.45
45:BI:88:HIS:ND1	45:BI:90:GLU:HG3	2.32	0.45
46:BJ:6:HIS:CD2	46:BJ:21:TRP:HE1	2.35	0.45
46:BJ:204:ASN:OD1	49:BJ:501:GDP:O2'	2.34	0.45
46:BL:3:GLU:HG3	46:BL:62:ARG:NH1	2.31	0.45
45:BM:51:THR:HG22	45:BM:52:PHE:CD2	2.51	0.45
45:BM:208:ALA:HB2	45:BM:304:LYS:N	2.32	0.45
46:BN:191:GLN:OE1	46:BN:191:GLN:N	2.49	0.45
46:CB:130:LEU:HD11	46:CB:133:PHE:CE2	2.52	0.45
45:CI:3:GLU:OE2	45:CI:129:CYS:HB2	2.16	0.45
46:CJ:137:HIS:NE2	46:CJ:168:SER:OG	2.44	0.45
46:DD:326:VAL:HG12	46:DD:330:MET:HE3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DG:5:ILE:HB	45:DG:135:PHE:CD1	2.52	0.45
46:DH:174:LYS:N	46:DH:205:GLU:OE2	2.48	0.45
46:DL:6:HIS:O	46:DL:63:ALA:HA	2.17	0.45
46:EB:318:ARG:HB3	46:EB:358:PRO:HD3	1.98	0.45
45:EC:89:PRO:HG2	45:EC:90:GLU:OE1	2.16	0.45
45:EC:315:CYS:SG	45:EC:377:MET:HB2	2.56	0.45
46:ED:16:ILE:HD13	46:ED:226:ASN:OD1	2.17	0.45
45:EE:345:ASP:OD2	45:EE:346:TRP:N	2.50	0.45
46:EF:15:GLN:NE2	49:EF:501:GDP:C6	2.85	0.45
46:EF:22:GLU:HG2	46:EF:81:PHE:HD2	1.81	0.45
46:EL:12:CYS:SG	46:EL:138:SER:N	2.90	0.45
45:FC:135:PHE:HB2	45:FC:166:LYS:HG2	1.99	0.45
46:FD:143:THR:O	46:FD:147:MET:SD	2.75	0.45
45:FE:71:GLU:HB2	45:FE:98:ASP:HB2	1.98	0.45
45:FE:102:ASN:ND2	45:FE:105:ARG:HG3	2.32	0.45
45:FG:183:GLU:N	45:FG:184:PRO:HD2	2.31	0.45
46:FH:8:GLN:NE2	46:FH:14:ASN:HA	2.30	0.45
45:FK:395:PHE:CD1	45:FK:422:ARG:HD3	2.51	0.45
46:FL:254:ALA:O	46:FL:258:ILE:HG12	2.17	0.45
45:FM:8:HIS:HB2	45:FM:67:PHE:CD1	2.51	0.45
45:FM:101:ASN:HA	45:FM:144:GLY:H	1.81	0.45
45:FM:387:VAL:HA	45:FM:390:ARG:HG2	1.99	0.45
45:GA:179:THR:HG22	46:GB:350:LYS:HZ1	1.81	0.45
45:GA:265:ILE:HG22	45:GA:380:ASN:HD21	1.80	0.45
45:GA:401:LYS:HB2	45:GA:401:LYS:HE3	1.83	0.45
46:GD:114:ASP:O	46:GD:117:LEU:HG	2.16	0.45
45:GI:296:PHE:HE2	45:GI:335:ILE:HG21	1.82	0.45
45:GK:97:GLU:HG2	45:GK:105:ARG:HH22	1.82	0.45
45:GK:322:ASP:N	45:GK:322:ASP:OD2	2.46	0.45
46:GL:7:ILE:HG12	46:GL:64:ILE:HB	1.98	0.45
46:GL:288:GLU:O	46:GL:291:GLN:HG3	2.17	0.45
46:GN:116:VAL:HA	46:GN:119:VAL:HG12	1.99	0.45
45:HC:32:PRO:HB3	45:HC:83:TYR:CE1	2.51	0.45
46:HJ:6:HIS:NE2	46:HJ:8:GLN:HB3	2.31	0.45
46:HJ:105:HIS:CE1	46:HJ:150:LEU:HD12	2.50	0.45
45:HK:11:GLN:HE21	45:HK:15:GLN:NE2	2.15	0.45
45:IA:194:LEU:HB2	45:IA:198:THR:OG1	2.17	0.45
45:IE:19:ALA:HA	45:IE:22:GLU:OE1	2.16	0.45
46:IH:206:ALA:O	46:IH:210:ILE:HG12	2.17	0.45
46:IH:395:LEU:O	46:IH:399:THR:HG23	2.17	0.45
46:IJ:341:PHE:HD2	46:IJ:348:ASN:HD21	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IL:141:GLY:O	46:IL:145:SER:HB2	2.16	0.45
46:IN:165:GLU:HG2	46:IN:198:GLU:HB2	1.99	0.45
45:JA:318:MET:HB2	45:JA:376:CYS:SG	2.57	0.45
45:JG:245:ASP:OD2	45:JG:246:GLY:N	2.49	0.45
45:JI:210:TYR:HH	46:JJ:323:THR:HG1	1.63	0.45
45:JI:419:SER:O	45:JI:423:GLU:HG2	2.16	0.45
45:JK:294:SER:HA	45:JK:297:GLU:HG2	1.97	0.45
46:JL:217:LEU:HD23	46:JL:217:LEU:H	1.82	0.45
45:KA:4:VAL:HG12	45:KA:133:GLN:HB2	1.99	0.45
45:KA:370:LYS:HE2	45:KA:370:LYS:HA	1.99	0.45
45:KE:88:HIS:ND1	45:KE:89:PRO:HD2	2.31	0.45
45:KE:179:THR:O	46:KF:350:LYS:HA	2.16	0.45
45:KI:287:SER:H	45:KI:290:GLU:CD	2.19	0.45
45:KK:284:GLU:OE1	45:KK:286:LEU:HD22	2.15	0.45
46:KL:238:CYS:SG	46:KL:239:CYS:N	2.90	0.45
45:LA:263:PRO:HD3	46:LD:396:HIS:CE1	2.51	0.45
46:LB:8:GLN:OE1	46:LB:17:GLY:HA3	2.17	0.45
46:LD:257:LEU:HD12	46:LD:312:THR:OG1	2.16	0.45
45:LE:252:ILE:HD12	45:LE:252:ILE:H	1.82	0.45
45:LE:407:TRP:CZ3	46:LF:255:VAL:HA	2.51	0.45
46:LJ:10:GLY:O	46:LJ:14:ASN:ND2	2.41	0.45
45:LK:231:ILE:O	45:LK:235:ILE:HG12	2.17	0.45
45:MA:298:PRO:O	45:MA:301:MET:HG2	2.17	0.45
46:ML:68:LEU:HD23	46:ML:143:THR:OG1	2.16	0.45
46:ML:380:ARG:HA	46:ML:383:GLU:HG2	1.97	0.45
46:ML:395:LEU:HD21	46:ML:405:GLU:HG3	1.98	0.45
46:MN:161:ASP:OD2	46:MN:161:ASP:N	2.44	0.45
45:NA:180:ALA:HB3	45:NA:183:GLU:HB3	1.97	0.45
45:NA:192:HIS:HE1	45:NA:424:ASP:OD2	1.98	0.45
45:NA:396:ASP:HB2	45:NA:422:ARG:NH2	2.31	0.45
45:NC:241:SER:OG	45:NC:250:VAL:O	2.26	0.45
46:ND:263:LEU:HD22	46:ND:422:TYR:CD1	2.50	0.45
46:ND:293:MET:CE	46:ND:365:VAL:HG21	2.47	0.45
46:NF:254:ALA:O	46:NF:258:ILE:HG22	2.17	0.45
46:NJ:47:ILE:HG21	46:NJ:59:TYR:CD1	2.51	0.45
45:NM:121:ARG:HH11	45:NM:124:LYS:NZ	2.14	0.45
45:NM:405:VAL:O	45:NM:409:VAL:HG23	2.17	0.45
46:NN:324:LYS:O	46:NN:328:GLU:HG3	2.17	0.45
45:OG:331:SER:O	45:OG:335:ILE:HG12	2.17	0.45
45:OM:242:LEU:HD11	45:OM:252:ILE:HG23	1.97	0.45
45:PA:60:LYS:HE3	45:PA:85:GLN:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:434:GLU:O	45:PA:437:ILE:HG12	2.17	0.45
46:PB:28:HIS:C	46:PB:43:GLN:HE21	2.18	0.45
46:PB:289:LEU:HD11	46:PB:363:MET:HB3	1.96	0.45
46:PD:229:VAL:O	46:PD:233:MET:HG2	2.16	0.45
45:PG:328:VAL:O	45:PG:332:ILE:HG12	2.16	0.45
46:PH:3:GLU:OE1	46:PH:3:GLU:N	2.43	0.45
45:PK:200:VAL:HG23	45:PK:256:GLN:NE2	2.32	0.45
46:QB:101:TRP:HZ2	46:QB:191:GLN:NE2	2.14	0.45
46:QB:212:PHE:HB3	46:QB:213:ARG:NH2	2.32	0.45
46:QB:252:LYS:HA	45:QC:100:ALA:HB1	1.97	0.45
46:QB:258:ILE:HD11	45:QC:407:TRP:CZ2	2.51	0.45
46:QB:268:ILE:HG13	46:QB:300:MET:HE2	1.98	0.45
46:QH:130:LEU:HB3	46:QH:162:ARG:HE	1.81	0.45
46:QJ:284:LEU:HD11	46:QJ:362:LYS:HB3	1.98	0.45
45:QK:288:VAL:HA	45:QK:291:ILE:HG12	1.98	0.45
46:QL:21:TRP:CH2	46:QL:61:PRO:HB3	2.51	0.45
45:QM:328:VAL:HG11	45:QM:353:VAL:HG21	1.98	0.45
45:QM:377:MET:SD	45:QM:379:SER:HB3	2.57	0.45
45:RA:21:TRP:CZ2	45:RA:65:ALA:HB2	2.51	0.45
45:RE:195:LEU:HD21	45:RE:428:LEU:HD21	1.98	0.45
46:RF:251:ARG:HE	45:RG:105:ARG:HH22	1.65	0.45
46:RH:210:ILE:O	46:RH:214:THR:HG22	2.16	0.45
45:RI:121:ARG:NE	45:RI:121:ARG:HA	2.31	0.45
45:RK:107:HIS:ND1	45:RK:107:HIS:O	2.50	0.45
46:RL:350:LYS:NZ	46:RL:351:SER:O	2.43	0.45
45:RM:74:VAL:O	45:RM:78:VAL:HG23	2.16	0.45
45:RM:105:ARG:O	45:RM:109:THR:OG1	2.24	0.45
45:RM:185:TYR:O	45:RM:188:ILE:HG22	2.17	0.45
46:RN:372:THR:HA	46:RN:422:TYR:HE2	1.82	0.45
45:SA:140:SER:OG	47:SA:501:GTP:O2B	2.35	0.45
46:SB:253:LEU:HD22	46:SB:350:LYS:HZ3	1.82	0.45
45:SC:263:PRO:HD3	46:SD:396:HIS:CE1	2.51	0.45
46:SD:5:VAL:HG23	46:SD:7:ILE:HD11	1.98	0.45
45:SG:5:ILE:HB	45:SG:135:PHE:CD1	2.52	0.45
45:SG:93:ILE:HG22	45:SG:114:ILE:HD11	1.98	0.45
45:SK:333:ALA:O	45:SK:337:THR:HG23	2.17	0.45
46:TD:16:ILE:HD13	46:TD:226:ASN:OD1	2.17	0.45
46:TF:293:MET:CE	46:TF:367:PHE:HB2	2.46	0.45
45:TG:280:LYS:HA	45:TG:283:HIS:ND1	2.31	0.45
45:TK:274:PRO:HG3	45:TK:286:LEU:HD12	1.97	0.45
46:TL:67:ASP:OD1	46:TL:68:LEU:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TN:87:PRO:HA	46:TN:90:PHE:HD2	1.82	0.45
46:TN:201:VAL:HG23	46:TN:301:CYS:SG	2.57	0.45
45:UA:280:LYS:HD3	45:UA:280:LYS:HA	1.72	0.45
46:UB:113:ILE:HA	46:UB:116:VAL:HG22	1.99	0.45
46:UB:211:CYS:HA	46:UB:215:LEU:HD12	1.98	0.45
46:UB:226:ASN:HA	46:UB:229:VAL:HG22	1.98	0.45
46:UD:399:THR:HA	46:UD:403:MET:O	2.16	0.45
46:UH:179:VAL:HG23	46:UH:180:VAL:HG23	1.98	0.45
45:UI:19:ALA:HA	45:UI:22:GLU:OE1	2.16	0.45
45:UI:348:PRO:HD3	46:UJ:388:MET:CE	2.45	0.45
45:UK:70:LEU:HD13	45:UK:95:GLY:HA3	1.97	0.45
45:UK:221:ARG:N	45:UK:222:PRO:HD3	2.32	0.45
45:UM:422:ARG:HE	45:UM:423:GLU:HG3	1.81	0.45
46:VB:121:ARG:O	46:VB:124:ALA:N	2.50	0.45
46:VD:181:GLU:HB2	46:VD:182:PRO:HD3	1.99	0.45
45:VG:121:ARG:HD2	45:VG:121:ARG:HA	1.77	0.45
46:VJ:116:VAL:HA	46:VJ:119:VAL:HG12	1.97	0.45
46:VJ:326:VAL:O	46:VJ:330:MET:HG2	2.17	0.45
45:VK:8:HIS:HB2	45:VK:67:PHE:CD2	2.51	0.45
45:VK:183:GLU:N	45:VK:184:PRO:HD2	2.31	0.45
45:VK:210:TYR:CE2	46:VL:324:LYS:HB3	2.52	0.45
45:VK:430:LYS:HA	45:VK:433:GLU:HG3	1.99	0.45
46:VL:310:TYR:CD1	46:VL:371:SER:HB2	2.51	0.45
46:VN:377:MET:HG2	46:VN:380:ARG:HH21	1.82	0.45
45:WA:155:GLU:HB3	45:WA:156:ARG:NH2	2.32	0.45
45:WG:118:CYS:SG	45:WG:153:LEU:HD11	2.57	0.45
45:WM:5:ILE:HD12	45:WM:64:ARG:HD2	1.98	0.45
45:WM:121:ARG:HH21	45:WM:124:LYS:HD2	1.82	0.45
46:WN:282:ARG:NH2	46:WN:284:LEU:HA	2.31	0.45
45:DC:17:GLY:HA2	45:DC:20:CYS:SG	2.56	0.45
7:OG:101:TYR:CE2	46:JN:40:SER:HB3	2.51	0.45
9:ON:246:THR:HG22	45:KK:47:ASP:HA	1.99	0.45
10:OQ:17:ILE:HA	46:WB:125:GLU:OE2	2.16	0.45
14:OV:24:ARG:NH2	45:MM:430:LYS:HA	2.31	0.45
3:1C:51:ASN:CA	45:EM:221:ARG:HH22	2.28	0.45
8:1H:300:GLU:OE1	45:GC:58:ALA:HB3	2.17	0.45
4:2D:20:LYS:NZ	46:CJ:55:THR:HA	2.31	0.45
31:2I:138:VAL:HA	46:GD:337:ASN:HD21	1.80	0.45
21:3L:163:ARG:NH2	45:BA:79:ARG:HG3	2.31	0.45
27:4C:227:GLY:HA2	45:KM:221:ARG:NH1	2.32	0.45
15:4X:131:MET:HA	15:4X:134:THR:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5A:27:LYS:HD2	36:5A:30:LYS:HD3	1.99	0.45
37:5E:91:ASN:OD1	37:5E:92:GLN:N	2.49	0.45
37:5F:85:GLN:OE1	37:5F:87:LEU:HG	2.16	0.45
10:5Q:97:LYS:O	10:5Q:99:VAL:N	2.46	0.45
34:5R:219:LYS:NZ	46:BL:75:SER:HB2	2.32	0.45
34:5R:285:THR:C	34:5R:306:ARG:HH22	2.20	0.45
41:6H:352:LYS:HD2	41:6H:353:ALA:H	1.82	0.45
34:6R:249:LEU:HA	45:CM:370:LYS:HZ2	1.82	0.45
44:8R:288:TYR:OH	45:PC:279:GLU:N	2.50	0.45
46:AJ:49:VAL:HG12	46:AJ:50:TYR:CD1	2.51	0.45
46:AL:16:ILE:HD13	46:AL:226:ASN:OD1	2.17	0.45
46:AN:31:ASP:OD2	46:AN:33:THR:OG1	2.34	0.45
45:BA:221:ARG:NE	46:BB:325:GLU:HB2	2.32	0.45
45:BC:56:THR:OG1	45:CC:282:TYR:O	2.34	0.45
45:BC:326:LYS:HB2	45:BC:326:LYS:HE2	1.75	0.45
46:BJ:60:VAL:HG11	46:BJ:86:ARG:HH21	1.81	0.45
46:BL:99:ASN:HA	46:BL:142:GLY:H	1.81	0.45
46:BL:391:ARG:HA	46:BL:391:ARG:HD2	1.75	0.45
46:CB:380:ARG:HG3	46:CB:381:VAL:N	2.32	0.45
45:CC:69:ASP:OD1	45:CC:70:LEU:N	2.49	0.45
45:CC:345:ASP:OD2	45:CC:346:TRP:N	2.50	0.45
46:CD:77:ARG:NH2	46:CD:83:GLN:OE1	2.46	0.45
46:CF:70:PRO:HA	46:CF:73:MET:SD	2.57	0.45
46:CF:386:THR:O	46:CF:390:ARG:HG2	2.16	0.45
46:CH:31:ASP:OD1	46:CH:35:THR:N	2.42	0.45
46:CJ:391:ARG:HA	46:CJ:391:ARG:HD2	1.81	0.45
46:CN:201:VAL:HG23	46:CN:301:CYS:SG	2.56	0.45
45:DA:171:ILE:HG23	45:DA:204:LEU:O	2.16	0.45
46:DD:247:ASN:ND2	45:DE:73:THR:HG21	2.31	0.45
45:DE:10:GLY:O	45:DE:14:ILE:HD12	2.16	0.45
46:DF:257:LEU:HD11	46:DF:314:SER:HB2	1.98	0.45
45:DG:141:VAL:HG11	45:DG:172:TYR:HA	1.98	0.45
45:DG:227:LEU:O	45:DG:231:ILE:HG12	2.16	0.45
45:DI:439:THR:HB	46:DJ:390:ARG:NH1	2.31	0.45
46:DL:165:GLU:HG2	46:DL:198:GLU:HB2	1.98	0.45
46:DL:226:ASN:HA	46:DL:229:VAL:HG22	1.98	0.45
46:DL:252:LYS:HA	45:DM:100:ALA:HB1	1.99	0.45
45:DM:145:THR:HG22	47:DM:501:GTP:PG	2.56	0.45
45:EA:346:TRP:CD1	46:EB:391:ARG:HG3	2.51	0.45
46:EB:6:HIS:O	46:EB:63:ALA:HA	2.16	0.45
46:EB:25:SER:HB3	46:EB:30:ILE:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EC:272:TYR:HD1	45:EC:376:CYS:HG	1.64	0.45
45:EE:101:ASN:HA	45:EE:144:GLY:H	1.81	0.45
46:EF:327:ASP:OD1	46:EF:328:GLU:N	2.49	0.45
45:EG:265:ILE:HG22	45:EG:380:ASN:HD21	1.81	0.45
45:EG:434:GLU:O	45:EG:437:ILE:HG22	2.17	0.45
46:EJ:345:ILE:HA	45:EK:398:MET:HE3	1.97	0.45
45:FA:183:GLU:N	45:FA:184:PRO:HD2	2.31	0.45
45:FC:84:ARG:HG3	45:FC:84:ARG:HH11	1.82	0.45
45:FC:260:VAL:HG23	46:FF:397:TRP:CZ2	2.52	0.45
46:FH:12:CYS:O	46:FH:16:ILE:HG12	2.16	0.45
46:FJ:83:GLN:O	46:GJ:281:TYR:OH	2.33	0.45
46:FN:101:TRP:CE3	46:FN:187:LEU:HD13	2.52	0.45
46:FN:389:PHE:HZ	46:FN:405:GLU:HB2	1.80	0.45
45:GA:174:SER:HB2	45:GA:177:VAL:O	2.16	0.45
46:GD:238:CYS:SG	46:GD:239:CYS:N	2.90	0.45
46:GD:317:PHE:CD1	46:GD:365:VAL:HG22	2.52	0.45
45:GK:284:GLU:HG2	45:GK:286:LEU:H	1.82	0.45
45:GK:348:PRO:HD3	46:GN:388:MET:HE3	1.97	0.45
45:GK:398:MET:HE2	46:GL:346:PRO:HD2	1.99	0.45
45:GM:322:ASP:OD1	45:GM:373:ARG:NH1	2.45	0.45
46:GN:117:LEU:HD13	46:GN:121:ARG:HH22	1.81	0.45
46:HB:257:LEU:HD11	46:HB:314:SER:HB2	1.98	0.45
46:HB:268:ILE:HG22	46:HB:368:VAL:HG12	1.98	0.45
46:HD:294:PHE:CE2	46:HD:333:VAL:HG11	2.52	0.45
45:HG:222:PRO:HG2	46:HH:324:LYS:HE2	1.99	0.45
45:HG:311:LYS:NZ	45:HG:342:GLN:HB3	2.31	0.45
46:HH:6:HIS:O	46:HH:63:ALA:HA	2.15	0.45
46:HJ:86:ARG:HB3	46:HJ:89:ASN:OD1	2.17	0.45
45:HK:224:TYR:HE2	46:HL:323:THR:HG21	1.81	0.45
46:HL:306:ARG:HB2	46:HL:340:TYR:HE2	1.81	0.45
46:HN:312:THR:HG22	46:HN:370:ASN:HB3	1.98	0.45
45:IC:329:ASN:O	45:IC:332:ILE:HG22	2.17	0.45
46:ID:39:ASP:OD2	46:ID:40:SER:N	2.50	0.45
45:IE:288:VAL:HA	45:IE:291:ILE:HG12	1.98	0.45
45:IK:276:ILE:HG12	45:IK:281:ALA:HB2	1.99	0.45
45:IK:377:MET:SD	45:IK:379:SER:HB3	2.57	0.45
46:JB:21:TRP:HA	46:JB:24:ILE:HG22	1.97	0.45
45:JC:175:PRO:HG2	45:JC:304:LYS:HG2	1.99	0.45
46:JD:21:TRP:CZ3	46:JD:61:PRO:HB3	2.51	0.45
46:JF:105:HIS:CE1	46:JF:150:LEU:HD12	2.51	0.45
46:JF:222:TYR:HD2	49:JF:501:GDP:C6	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JF:322:SER:OG	46:JF:325:GLU:OE2	2.32	0.45
45:JG:217:LEU:HB3	45:JG:219:ILE:HG12	1.97	0.45
45:JI:69:ASP:OD1	45:JI:70:LEU:N	2.49	0.45
46:JJ:161:ASP:OD1	46:JJ:162:ARG:HG2	2.17	0.45
46:JL:282:ARG:NH2	46:JL:288:GLU:OE1	2.48	0.45
46:JL:386:THR:O	46:JL:390:ARG:HG3	2.16	0.45
46:KB:322:SER:OG	46:KB:325:GLU:OE1	2.33	0.45
45:KG:185:TYR:CE2	45:KG:398:MET:HE3	2.52	0.45
45:KG:221:ARG:HA	46:KH:324:LYS:HE2	1.97	0.45
46:KH:52:ASN:OD1	46:KH:62:ARG:NH2	2.50	0.45
46:KH:289:LEU:HD13	46:KH:365:VAL:HG23	1.97	0.45
45:KI:68:LEU:HD13	45:KI:93:ILE:HB	1.98	0.45
46:KJ:389:PHE:CE1	46:KJ:395:LEU:HD11	2.52	0.45
45:KM:102:ASN:ND2	45:KM:105:ARG:HG3	2.32	0.45
45:LC:205:ASP:OD1	45:LC:206:ASN:N	2.50	0.45
45:LE:275:ILE:HG23	45:LE:275:ILE:O	2.17	0.45
45:LE:298:PRO:HB3	45:LE:307:PRO:HD2	1.98	0.45
46:LH:237:THR:HG23	46:LH:241:ARG:HH21	1.80	0.45
46:LL:222:TYR:HD2	49:LL:501:GDP:C6	2.34	0.45
45:LM:224:TYR:HD1	45:LM:227:LEU:HD12	1.82	0.45
45:MA:135:PHE:HB2	45:MA:166:LYS:HG2	1.99	0.45
45:MC:17:GLY:HA2	45:MC:20:CYS:SG	2.56	0.45
46:MD:207:LEU:HD13	46:MD:225:LEU:HB3	1.98	0.45
45:MK:326:LYS:HE3	46:MN:220:PRO:HG2	1.99	0.45
45:MM:88:HIS:CE1	45:MM:90:GLU:HG2	2.52	0.45
46:ND:372:THR:HA	46:ND:422:TYR:CE2	2.52	0.45
45:NE:3:GLU:OE2	45:NE:131:GLY:N	2.49	0.45
45:NE:259:LEU:HD21	45:NE:316:SER:OG	2.16	0.45
45:NG:237:SER:HA	45:NG:320:ARG:HH11	1.82	0.45
46:NJ:9:GLY:HA2	46:NJ:66:MET:O	2.17	0.45
45:NM:431:ASP:HA	45:NM:434:GLU:HG2	1.98	0.45
45:OA:200:VAL:HG13	45:OA:268:MET:HE2	1.98	0.45
45:OA:414:GLU:HB3	45:OA:417:GLU:OE1	2.16	0.45
46:OB:1:MET:HG3	46:OB:2:ARG:HG3	1.99	0.45
46:OB:119:VAL:O	46:OB:123:GLU:OE1	2.34	0.45
45:OC:320:ARG:HB2	45:OC:358:GLN:O	2.17	0.45
46:OD:379:LYS:O	46:OD:383:GLU:OE1	2.34	0.45
45:OG:350:GLY:HA2	46:OJ:179:VAL:HG23	1.98	0.45
45:OG:387:VAL:HA	45:OG:390:ARG:HG2	1.98	0.45
46:OJ:186:THR:HA	46:OJ:189:VAL:HG12	1.97	0.45
45:OK:188:ILE:HG21	45:OK:395:PHE:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OK:191:THR:HG23	45:OK:425:LEU:HD21	1.99	0.45
46:OL:9:GLY:HA2	46:OL:66:MET:O	2.17	0.45
45:PA:201:ALA:HB3	45:PA:267:PHE:CD1	2.52	0.45
46:PB:163:ILE:HG21	46:PB:251:ARG:HB3	1.99	0.45
46:PH:170:VAL:HG11	46:PH:377:MET:HE1	1.98	0.45
45:PI:54:SER:HB3	45:PI:64:ARG:NH1	2.32	0.45
45:PI:167:LEU:HD22	45:PI:200:VAL:HB	1.99	0.45
46:PJ:3:GLU:CD	46:PJ:3:GLU:H	2.20	0.45
46:PJ:41:ASP:OD1	46:PJ:42:LEU:HD12	2.17	0.45
46:PL:22:GLU:OE1	46:PL:80:PRO:HB2	2.17	0.45
46:PL:201:VAL:HG23	46:PL:301:CYS:SG	2.57	0.45
46:PL:290:THR:HA	46:PL:293:MET:HG3	1.98	0.45
45:PM:209:ILE:HD13	45:PM:230:LEU:HD11	1.98	0.45
46:PN:8:GLN:HE22	46:PN:17:GLY:HA3	1.81	0.45
46:QB:378:PHE:HA	46:QB:381:VAL:HG12	1.98	0.45
45:QC:149:LEU:O	45:QC:153:LEU:HD23	2.17	0.45
45:QE:265:ILE:HG12	45:QE:432:TYR:HE1	1.82	0.45
45:QE:318:MET:HB2	45:QE:376:CYS:SG	2.56	0.45
45:QG:401:LYS:HB2	45:QG:401:LYS:HE2	1.73	0.45
46:QH:49:VAL:HG23	46:QH:50:TYR:HD2	1.81	0.45
45:QI:141:VAL:HG22	45:QI:187:SER:HA	1.98	0.45
45:QI:352:LYS:NZ	46:QJ:179:VAL:H	2.07	0.45
46:QJ:68:LEU:HD13	46:QJ:143:THR:OG1	2.16	0.45
46:QJ:254:ALA:O	46:QJ:258:ILE:HG12	2.16	0.45
46:QL:268:ILE:HG22	46:QL:368:VAL:HG22	1.98	0.45
46:QN:87:PRO:HA	46:QN:90:PHE:HD2	1.82	0.45
45:RC:188:ILE:HD13	45:RC:395:PHE:CD2	2.52	0.45
45:RC:419:SER:O	45:RC:422:ARG:N	2.50	0.45
46:RD:4:ILE:HG13	46:RD:132:GLY:O	2.17	0.45
45:RE:17:GLY:HA2	45:RE:20:CYS:SG	2.56	0.45
45:RE:326:LYS:HE2	46:RF:208:TYR:HD1	1.81	0.45
46:RF:4:ILE:HG13	46:RF:132:GLY:O	2.17	0.45
45:RI:93:ILE:HG22	45:RI:114:ILE:HD11	1.99	0.45
45:RM:188:ILE:HG13	45:RM:425:LEU:HD11	1.97	0.45
46:SB:247:ASN:ND2	45:SC:71:GLU:OE1	2.50	0.45
46:SB:315:ALA:HB1	46:SB:317:PHE:CE1	2.51	0.45
45:SC:51:THR:HG22	45:SC:52:PHE:CD1	2.51	0.45
45:SC:136:LEU:HD23	45:SC:167:LEU:HB2	1.98	0.45
45:SC:188:ILE:HD13	45:SC:422:ARG:HH22	1.81	0.45
45:SE:402:ARG:HD2	45:SE:405:VAL:HB	1.99	0.45
46:SF:288:GLU:O	46:SF:291:GLN:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SG:252:ILE:HA	45:SG:255:PHE:HE2	1.82	0.45
45:SG:259:LEU:HD21	45:SG:380:ASN:HB2	1.98	0.45
46:SJ:46:ARG:HH22	45:SK:73:THR:HA	1.82	0.45
46:SL:379:LYS:HE3	46:SL:379:LYS:HA	1.99	0.45
46:SL:405:GLU:HA	46:SL:408:PHE:CD2	2.52	0.45
46:TB:148:GLY:O	46:TB:152:ILE:HG12	2.17	0.45
46:TD:287:PRO:HA	46:TD:290:THR:HG22	1.98	0.45
45:TE:326:LYS:HE2	46:TF:208:TYR:CD1	2.52	0.45
45:TE:329:ASN:O	45:TE:332:ILE:HG22	2.16	0.45
45:TG:336:LYS:HZ1	45:TG:349:THR:HA	1.82	0.45
46:TH:244:GLY:HA3	46:TH:354:CYS:HA	1.99	0.45
46:TN:34:GLY:HA3	46:TN:58:ARG:HG3	1.98	0.45
46:UD:270:PHE:HD2	46:UD:273:LEU:HD21	1.81	0.45
46:UF:252:LYS:HA	45:UG:100:ALA:HB1	1.99	0.45
46:UF:274:THR:OG1	46:UF:278:SER:OG	2.16	0.45
46:UH:284:LEU:HD23	46:UH:362:LYS:HB2	1.98	0.45
45:UK:111:GLY:HA2	45:UK:114:ILE:HD13	1.98	0.45
45:UK:307:PRO:HG2	45:UK:308:ARG:HD3	1.99	0.45
45:UM:258:ASN:HD21	46:UN:178:THR:HG23	1.82	0.45
46:VB:285:THR:OG1	46:VB:288:GLU:OE1	2.24	0.45
46:VB:286:VAL:HG12	46:VB:329:GLN:OE1	2.17	0.45
45:VG:203:MET:HG3	45:VG:384:ILE:HD11	1.98	0.45
46:VH:372:THR:HA	46:VH:422:TYR:CE2	2.52	0.45
45:VM:88:HIS:HB3	45:VM:91:GLN:HG2	1.98	0.45
45:VM:387:VAL:HA	45:VM:390:ARG:HG2	1.99	0.45
46:VN:200:MET:HB3	46:VN:268:ILE:HD11	1.98	0.45
45:WC:118:CYS:O	45:WC:122:ILE:HG12	2.16	0.45
46:WF:73:MET:HG2	46:WF:90:PHE:HD1	1.81	0.45
46:WF:113:ILE:HD13	46:WF:150:LEU:HD22	1.97	0.45
45:WI:152:LEU:HD23	45:WI:155:GLU:OE2	2.17	0.45
45:WK:67:PHE:HB2	45:WK:92:LEU:HD13	1.99	0.45
45:WK:221:ARG:O	45:WK:221:ARG:HG2	2.16	0.45
46:WN:288:GLU:HA	46:WN:291:GLN:HG3	1.99	0.45
46:WN:313:ALA:HB1	46:WN:367:PHE:HE1	1.81	0.45
45:CE:36:MET:SD	45:CE:37:PRO:HD2	2.57	0.45
1:0A:136:ASN:HD22	46:AB:245:GLN:HE22	1.64	0.45
3:1C:80:ARG:NH1	46:EL:359:LYS:HA	2.32	0.45
19:1J:262:VAL:H	45:II:370:LYS:HZ1	1.65	0.45
21:1L:658:ARG:HB2	46:BF:45:GLU:OE2	2.16	0.45
23:1O:264:ILE:O	45:UA:282:TYR:HB3	2.17	0.45
9:2N:1:MET:HB2	45:IA:96:LYS:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:2R:504:GLU:OE1	45:EG:39:ASP:HA	2.17	0.45
26:2W:189:ARG:HG3	45:KM:47:ASP:CG	2.36	0.45
34:4R:203:ARG:NH2	34:4R:204:VAL:O	2.40	0.45
35:4S:187:LEU:HB2	35:4S:240:MET:HG2	1.98	0.45
37:5F:111:ASN:HB3	46:NF:44:LEU:HD22	1.98	0.45
35:5S:93:PRO:HG2	35:5S:130:ARG:HH21	1.82	0.45
35:5S:192:MET:HG2	46:AH:424:GLN:CG	2.45	0.45
40:6G:275:TYR:N	40:6G:276:PRO:HD2	2.32	0.45
34:7R:206:ASN:ND2	34:7R:210:GLU:OE2	2.50	0.45
44:8R:361:UNK:C	46:OB:56:GLY:HA2	2.47	0.45
46:AB:260:PHE:HB2	46:AB:263:LEU:HD13	1.99	0.45
45:AC:98:ASP:OD1	45:AC:99:ALA:N	2.49	0.45
46:AD:45:GLU:O	46:AD:46:ARG:HD3	2.16	0.45
46:AD:288:GLU:O	46:AD:291:GLN:HG3	2.17	0.45
46:AF:334:GLN:OE1	46:AF:347:ASN:HA	2.17	0.45
45:AG:237:SER:HA	45:AG:320:ARG:HH11	1.82	0.45
45:AI:372:MET:N	45:AI:372:MET:SD	2.89	0.45
45:AK:287:SER:O	45:AK:290:GLU:HG3	2.17	0.45
46:BD:316:LEU:HB2	46:BD:366:THR:HG22	1.99	0.45
45:BK:107:HIS:ND1	45:BK:107:HIS:O	2.49	0.45
45:BK:377:MET:SD	45:BK:379:SER:HB3	2.56	0.45
45:BM:5:ILE:HD13	45:BM:135:PHE:HE1	1.81	0.45
45:CA:226:ASN:OD1	45:CA:227:LEU:N	2.49	0.45
45:CA:268:MET:SD	45:CA:380:ASN:HB2	2.57	0.45
45:CC:107:HIS:ND1	45:CC:107:HIS:O	2.49	0.45
45:CC:252:ILE:HA	45:CC:255:PHE:HD1	1.82	0.45
45:CG:128:ASN:C	45:CG:128:ASN:HD22	2.18	0.45
45:CI:136:LEU:HD22	45:CI:169:PHE:HE2	1.82	0.45
45:DA:19:ALA:HA	45:DA:22:GLU:OE1	2.16	0.45
45:DE:121:ARG:HH12	45:DE:124:LYS:HD2	1.82	0.45
45:DE:208:ALA:HB2	45:DE:304:LYS:HB2	1.99	0.45
46:DF:318:ARG:NH1	46:DF:358:PRO:HG3	2.32	0.45
45:DG:14:ILE:O	45:DG:18:ASN:ND2	2.48	0.45
46:DJ:284:LEU:HD12	46:DJ:284:LEU:O	2.17	0.45
45:DK:205:ASP:OD1	45:DK:206:ASN:N	2.49	0.45
45:DM:224:TYR:CD2	45:DM:227:LEU:HD12	2.52	0.45
45:EC:244:PHE:CE1	45:EC:358:GLN:HG3	2.52	0.45
45:EG:35:GLN:OE1	45:EG:60:LYS:HB3	2.17	0.45
45:EK:206:ASN:OD1	47:EK:501:GTP:N2	2.49	0.45
45:EM:93:ILE:HG22	45:EM:114:ILE:HD11	1.98	0.45
46:EN:221:THR:HG23	46:EN:224:ASP:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FA:222:PRO:HD2	46:FB:324:LYS:HD3	1.98	0.45
46:FD:113:ILE:HD13	46:FD:150:LEU:HD22	1.97	0.45
46:FD:207:LEU:HA	46:FD:210:ILE:HG12	1.98	0.45
45:FE:370:LYS:HA	45:FE:370:LYS:HD3	1.60	0.45
46:FF:11:GLN:O	46:FF:15:GLN:HG2	2.15	0.45
46:FF:318:ARG:HD3	46:FF:358:PRO:HD3	1.99	0.45
46:FH:16:ILE:HD13	46:FH:226:ASN:OD1	2.17	0.45
46:FH:212:PHE:HB3	46:FH:213:ARG:NH1	2.32	0.45
45:FK:71:GLU:OE2	46:FL:2:ARG:NH2	2.50	0.45
46:FL:260:PHE:HB2	46:FL:263:LEU:CD1	2.47	0.45
45:GE:21:TRP:HZ2	45:GE:65:ALA:HB2	1.82	0.45
46:GF:173:PRO:HG2	46:GF:380:ARG:HE	1.81	0.45
46:GH:105:HIS:CE1	46:GH:150:LEU:HD12	2.51	0.45
45:GI:317:MET:HE3	45:GI:317:MET:HB3	1.90	0.45
46:GJ:86:ARG:HD3	46:HJ:281:TYR:CD2	2.52	0.45
46:GJ:200:MET:HG3	46:GJ:266:PHE:HB2	1.99	0.45
46:GJ:342:VAL:HG13	46:GJ:345:ILE:HG22	1.98	0.45
45:GM:147:SER:HB2	45:GM:190:SER:HB3	1.99	0.45
45:GM:224:TYR:CE2	46:GN:246:LEU:HD11	2.51	0.45
46:GN:20:PHE:HA	46:GN:230:SER:OG	2.17	0.45
46:GN:258:ILE:HG13	46:GN:266:PHE:HZ	1.82	0.45
46:HD:304:ASP:OD1	46:HD:306:ARG:NH2	2.50	0.45
46:HF:342:VAL:HG13	46:HF:345:ILE:HG22	1.99	0.45
46:HN:202:ILE:HD11	46:HN:268:ILE:HD11	1.99	0.45
46:IB:83:GLN:NE2	46:IB:84:LEU:HD22	2.27	0.45
46:IB:290:THR:HA	46:IB:293:MET:HG2	1.99	0.45
45:IC:263:PRO:HD3	46:IF:396:HIS:CE1	2.52	0.45
46:ID:238:CYS:SG	46:ID:318:ARG:NE	2.90	0.45
45:IE:254:GLU:OE1	46:IH:99:ASN:ND2	2.49	0.45
46:IL:318:ARG:NE	46:IL:356:ILE:O	2.37	0.45
45:IM:93:ILE:HD11	45:IM:121:ARG:HG3	1.99	0.45
45:JA:76:ASP:OD1	45:JA:77:GLU:N	2.50	0.45
46:JL:323:THR:HG22	46:JL:353:ILE:HD12	1.98	0.45
45:JM:414:GLU:OE2	45:JM:417:GLU:N	2.49	0.45
46:JN:51:TYR:HB3	46:JN:59:TYR:HB3	1.98	0.45
46:KB:375:GLN:HB2	46:KB:419:VAL:HG23	1.99	0.45
45:LC:217:LEU:HD12	45:LC:367:ASP:HB3	1.99	0.45
45:LC:292:THR:HG21	45:LC:331:SER:HB2	1.99	0.45
45:LE:73:THR:HB	46:LF:247:ASN:HD21	1.81	0.45
46:LL:286:VAL:HG21	46:LL:325:GLU:CB	2.46	0.45
45:LM:172:TYR:HD2	45:LM:173:PRO:HD2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MC:31:GLN:NE2	45:MC:35:GLN:HB2	2.31	0.45
45:MG:115:VAL:HG21	45:MG:152:LEU:CD2	2.47	0.45
45:MG:259:LEU:HD11	45:MG:316:SER:HB3	1.97	0.45
46:MJ:293:MET:HE3	46:MJ:367:PHE:CD1	2.50	0.45
45:MK:428:LEU:HG	45:MK:432:TYR:HE2	1.81	0.45
46:MN:6:HIS:NE2	46:MN:8:GLN:OE1	2.50	0.45
45:NC:288:VAL:HA	45:NC:291:ILE:HG12	1.98	0.45
46:ND:289:LEU:HD11	46:ND:365:VAL:HG12	1.99	0.45
46:ND:307:HIS:ND1	46:ND:376:GLU:OE2	2.43	0.45
45:NE:258:ASN:CB	45:NE:352:LYS:HZ2	2.29	0.45
46:NH:321:MET:N	46:NH:321:MET:SD	2.89	0.45
45:NI:2:ARG:HD3	45:NI:2:ARG:H	1.82	0.45
45:NI:208:ALA:O	45:NI:212:ILE:HG12	2.17	0.45
46:NJ:117:LEU:HA	46:NJ:120:VAL:HG12	1.98	0.45
46:NL:116:VAL:HA	46:NL:119:VAL:HG12	1.99	0.45
45:OA:102:ASN:N	45:OA:144:GLY:HA3	2.32	0.45
45:OA:156:ARG:HG2	45:OA:156:ARG:HH11	1.82	0.45
45:OA:263:PRO:HD3	46:OD:396:HIS:CD2	2.51	0.45
46:OB:304:ASP:HB3	46:OB:307:HIS:ND1	2.32	0.45
45:OC:332:ILE:O	45:OC:336:LYS:HG2	2.16	0.45
45:OE:21:TRP:CZ2	45:OE:65:ALA:HB2	2.52	0.45
45:OE:177:VAL:HG13	46:OF:327:ASP:HB3	1.98	0.45
46:OF:200:MET:HE1	46:OF:268:ILE:HG23	1.97	0.45
45:OK:387:VAL:HA	45:OK:390:ARG:HG2	1.99	0.45
45:OM:319:TYR:HB3	45:OM:323:VAL:HG21	1.98	0.45
46:ON:24:ILE:HA	46:ON:27:GLU:OE2	2.17	0.45
45:PA:180:ALA:HA	46:PB:350:LYS:HZ2	1.81	0.45
45:PA:226:ASN:OD1	45:PA:227:LEU:N	2.49	0.45
45:PE:390:ARG:HG3	45:PE:391:LEU:HD12	1.98	0.45
45:PG:152:LEU:O	45:PG:155:GLU:HG3	2.16	0.45
45:PG:271:SER:HB2	45:PG:377:MET:HB3	1.98	0.45
45:PG:311:LYS:HD2	45:PG:343:PHE:C	2.37	0.45
46:PH:256:ASN:OD1	46:PH:257:LEU:HG	2.16	0.45
46:PJ:240:LEU:HD12	46:PJ:249:ASP:HB2	1.99	0.45
45:PK:324:VAL:HG11	45:PK:326:LYS:NZ	2.31	0.45
45:PM:21:TRP:CZ2	45:PM:65:ALA:HB2	2.52	0.45
45:PM:88:HIS:HB3	45:PM:91:GLN:HG2	1.99	0.45
45:PM:147:SER:HB2	45:PM:190:SER:HB3	1.98	0.45
46:QB:100:ASN:HB3	46:QB:103:LYS:HB3	1.99	0.45
45:QC:231:ILE:O	45:QC:235:ILE:HG12	2.17	0.45
46:QD:417:ASP:O	46:QD:421:GLU:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QH:116:VAL:HA	46:QH:119:VAL:HG22	1.99	0.45
46:QH:174:LYS:HB2	46:QH:205:GLU:OE2	2.17	0.45
45:QI:265:ILE:HD11	45:QI:435:VAL:HG21	1.97	0.45
46:QJ:116:VAL:HA	46:QJ:119:VAL:HG22	1.98	0.45
46:QL:346:PRO:HG2	45:QM:394:LYS:NZ	2.32	0.45
45:QM:34:GLY:HA3	45:QM:60:LYS:HE2	1.97	0.45
45:QM:210:TYR:CZ	45:QM:227:LEU:HD11	2.51	0.45
46:QN:31:ASP:OD2	46:QN:37:HIS:ND1	2.50	0.45
46:QN:135:ILE:HG13	46:QN:152:ILE:HD11	1.99	0.45
46:RB:182:PRO:O	46:RB:186:THR:HG22	2.17	0.45
45:RC:141:VAL:HG12	45:RC:171:ILE:O	2.17	0.45
46:RD:118:ASP:O	46:RD:122:LYS:HG3	2.16	0.45
46:RD:239:CYS:HB3	46:RD:354:CYS:SG	2.57	0.45
46:RD:246:LEU:HD11	45:RE:224:TYR:HE2	1.82	0.45
46:RF:254:ALA:O	46:RF:258:ILE:HG12	2.16	0.45
45:RG:284:GLU:HG2	45:RG:286:LEU:HD22	1.98	0.45
45:RI:7:ILE:HG22	45:RI:66:VAL:HG22	1.99	0.45
45:RK:98:ASP:OD1	45:RK:99:ALA:N	2.50	0.45
45:RK:211:ASP:OD1	45:RK:214:ARG:NE	2.49	0.45
46:RL:20:PHE:HB2	46:RL:233:MET:HE3	1.98	0.45
45:RM:121:ARG:HA	45:RM:121:ARG:CZ	2.47	0.45
45:SG:174:SER:HB2	45:SG:177:VAL:O	2.16	0.45
46:SJ:6:HIS:NE2	46:SJ:8:GLN:OE1	2.50	0.45
46:SJ:345:ILE:O	46:SJ:345:ILE:HG23	2.17	0.45
46:SJ:350:LYS:NZ	46:SJ:352:SER:OG	2.32	0.45
46:SL:60:VAL:HG23	46:SL:84:LEU:O	2.17	0.45
45:TC:136:LEU:HD23	45:TC:167:LEU:HB2	1.99	0.45
46:TF:131:GLN:O	46:TF:163:ILE:HG12	2.17	0.45
46:TF:221:THR:HG23	46:TF:224:ASP:H	1.81	0.45
45:TG:51:THR:HG22	45:TG:52:PHE:CD1	2.51	0.45
45:TK:28:HIS:CD2	45:TK:49:PHE:HB3	2.51	0.45
46:TL:186:THR:HG23	46:TL:415:MET:CE	2.46	0.45
45:TM:88:HIS:HB3	45:TM:91:GLN:OE1	2.17	0.45
45:UA:387:VAL:HA	45:UA:390:ARG:HG2	1.99	0.45
46:UB:139:LEU:HD22	46:UB:170:VAL:HG12	1.98	0.45
45:UC:399:TYR:O	45:UC:402:ARG:NH2	2.50	0.45
45:UE:49:PHE:HD1	45:UE:53:PHE:HB2	1.82	0.45
45:UE:352:LYS:NZ	46:UF:179:VAL:HG13	2.32	0.45
46:UH:391:ARG:HA	46:UH:391:ARG:HD2	1.77	0.45
46:UJ:294:PHE:CD1	46:UJ:333:VAL:HG11	2.51	0.45
45:UK:280:LYS:HE3	45:UK:283:HIS:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UL:12:CYS:O	46:UL:16:ILE:HG12	2.17	0.45
46:UL:20:PHE:CE1	46:UL:233:MET:HB3	2.51	0.45
46:UL:218:THR:HG23	46:UL:219:THR:HG23	1.98	0.45
45:UM:97:GLU:OE1	45:UM:98:ASP:N	2.50	0.45
46:UN:312:THR:HG22	46:UN:370:ASN:HB3	1.98	0.45
46:VD:45:GLU:C	46:VD:46:ARG:HD2	2.36	0.45
46:VD:86:ARG:HG3	46:WD:282:ARG:NH2	2.31	0.45
46:VH:198:GLU:HG2	46:VH:266:PHE:HE2	1.81	0.45
45:VI:88:HIS:O	45:VI:91:GLN:HG2	2.16	0.45
46:VL:406:MET:SD	46:VL:407:GLU:N	2.90	0.45
45:WA:90:GLU:OE1	45:WA:121:ARG:NH1	2.49	0.45
45:WA:208:ALA:O	45:WA:212:ILE:HG12	2.17	0.45
46:WB:207:LEU:HD22	46:WB:228:LEU:HD11	1.99	0.45
45:WC:166:LYS:HD2	45:WC:198:THR:HA	1.99	0.45
45:WG:280:LYS:HE3	45:WG:284:GLU:OE2	2.17	0.45
45:WI:17:GLY:HA2	45:WI:20:CYS:SG	2.56	0.45
45:WK:100:ALA:HB1	46:WL:252:LYS:HA	1.98	0.45
45:CE:2:ARG:HB2	45:CE:133:GLN:NE2	2.32	0.45
45:DC:19:ALA:O	45:DC:22:GLU:HG3	2.16	0.45
45:DC:332:ILE:HD13	45:DC:335:ILE:HD12	1.98	0.45
45:DC:385:ALA:HB2	45:DC:432:TYR:HD2	1.82	0.45
4:1D:177:THR:HG22	46:EF:48:ASN:OD1	2.17	0.45
24:1P:248:LYS:NZ	46:TF:280:GLN:HB2	2.31	0.45
15:1X:45:GLN:NE2	45:ME:282:TYR:HB3	2.32	0.45
1:2A:6:TYR:HB2	34:5R:9:VAL:O	2.16	0.45
29:2G:24:LEU:HD21	45:KG:330:ALA:HA	1.98	0.45
26:2W:243:ILE:HG21	34:6R:9:VAL:HB	1.98	0.45
13:3U:194:ARG:NH1	46:WN:78:ALA:O	2.49	0.45
14:3V:122:LYS:HE2	46:LD:390:ARG:NH1	2.27	0.45
34:4R:206:ASN:HB2	34:4R:210:GLU:OE1	2.16	0.45
36:5B:153:PHE:HE2	45:NG:365:GLY:N	2.15	0.45
37:5E:212:THR:HG22	46:LF:391:ARG:HE	1.81	0.45
37:5F:27:ARG:HH12	46:OD:320:ARG:NH1	2.15	0.45
34:5R:291:LYS:HD3	34:5R:292:ARG:N	2.32	0.45
34:6R:362:GLN:HG2	34:6R:363:ASN:N	2.32	0.45
45:AA:333:ALA:O	45:AA:337:THR:HG23	2.16	0.45
45:AC:192:HIS:CD2	45:AC:421:ALA:HA	2.52	0.45
45:AC:283:HIS:ND1	45:MC:89:PRO:HD3	2.31	0.45
46:AF:180:VAL:HG12	46:AF:180:VAL:O	2.17	0.45
45:AG:104:ALA:HB2	45:AG:413:MET:HE2	1.98	0.45
46:AH:145:SER:HB2	46:AH:188:SER:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AN:263:LEU:HD23	46:AN:263:LEU:HA	1.85	0.45
45:BA:21:TRP:CZ2	45:BA:65:ALA:HB2	2.52	0.45
46:BB:316:LEU:HB2	46:BB:366:THR:CG2	2.46	0.45
45:BG:222:PRO:HG2	46:BH:324:LYS:HG3	1.99	0.45
46:BH:154:LYS:HA	46:BH:157:GLU:OE1	2.17	0.45
46:BL:27:GLU:OE2	46:BL:241:ARG:NH2	2.50	0.45
45:CA:401:LYS:HE3	45:CA:401:LYS:HB2	1.73	0.45
45:CC:155:GLU:HA	45:CC:197:HIS:ND1	2.32	0.45
45:CG:296:PHE:CE2	45:CG:335:ILE:HG21	2.50	0.45
45:CI:171:ILE:HG23	45:CI:204:LEU:O	2.17	0.45
45:CI:387:VAL:O	45:CI:390:ARG:HG2	2.17	0.45
46:DD:175:VAL:O	46:DD:175:VAL:HG23	2.16	0.45
45:DI:14:ILE:HG23	45:DI:67:PHE:CD2	2.52	0.45
45:DI:174:SER:HB3	45:DI:177:VAL:O	2.16	0.45
45:DM:123:ARG:NH2	45:DM:161:TYR:HE1	2.14	0.45
46:DN:260:PHE:HB2	46:DN:263:LEU:HD13	1.97	0.45
46:EB:66:MET:SD	46:EB:116:VAL:HB	2.57	0.45
45:EG:3:GLU:O	45:EG:133:GLN:N	2.33	0.45
45:EI:419:SER:O	45:EI:423:GLU:HG2	2.16	0.45
46:EJ:258:ILE:HD11	45:EK:407:TRP:HZ2	1.82	0.45
46:EJ:395:LEU:O	46:EJ:399:THR:HG23	2.17	0.45
46:EL:36:TYR:CZ	46:EL:44:LEU:HD11	2.52	0.45
46:EL:226:ASN:HD21	49:EL:501:GDP:HN1	1.65	0.45
46:EL:258:ILE:O	46:EL:258:ILE:HG13	2.17	0.45
45:EM:37:PRO:HG2	45:EM:40:LYS:H	1.82	0.45
45:EM:116:ASP:OD1	45:EM:116:ASP:N	2.50	0.45
45:EM:311:LYS:HD2	45:EM:311:LYS:HA	1.68	0.45
46:EN:198:GLU:HG2	46:EN:266:PHE:HE2	1.81	0.45
46:FB:230:SER:HA	46:FB:233:MET:HE2	1.98	0.45
45:FE:69:ASP:O	45:FE:94:SER:HA	2.16	0.45
45:FG:169:PHE:HA	45:FG:202:VAL:HG22	1.99	0.45
46:FH:311:LEU:HD13	46:FH:342:VAL:HG11	1.99	0.45
45:FI:97:GLU:HA	46:FJ:2:ARG:HD3	1.99	0.45
46:FJ:310:TYR:CD2	46:FJ:371:SER:HB3	2.52	0.45
46:FN:8:GLN:HE21	46:FN:14:ASN:HA	1.82	0.45
46:GD:16:ILE:HD13	46:GD:226:ASN:OD1	2.17	0.45
46:GD:109:GLY:O	46:GD:113:ILE:HG23	2.16	0.45
45:GE:296:PHE:CE2	45:GE:335:ILE:HG21	2.52	0.45
45:GG:150:GLY:O	45:GG:154:LEU:HD23	2.16	0.45
45:GK:208:ALA:O	45:GK:212:ILE:HG12	2.17	0.45
45:GK:223:THR:HG23	45:GK:225:THR:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GK:288:VAL:HA	45:GK:291:ILE:HG12	1.99	0.45
46:HB:357:PRO:HB2	46:HB:361:LEU:O	2.16	0.45
45:HC:22:GLU:HG2	45:HC:83:TYR:OH	2.17	0.45
45:HC:63:PRO:HG2	45:HC:86:LEU:HD21	1.99	0.45
45:HC:238:LEU:HA	45:HC:318:MET:CE	2.47	0.45
46:HD:2:ARG:HB2	46:HD:131:GLN:HE21	1.80	0.45
46:HF:178:THR:HG22	46:HF:180:VAL:H	1.81	0.45
46:HH:73:MET:HE3	46:HH:92:PHE:HD2	1.81	0.45
46:HH:208:TYR:HE1	46:HH:225:LEU:HD11	1.81	0.45
46:HH:318:ARG:HB3	46:HH:357:PRO:HA	1.99	0.45
45:HI:353:VAL:HG22	46:HL:177:ASP:HB2	1.99	0.45
46:ID:105:HIS:CD2	46:ID:150:LEU:HB2	2.51	0.45
46:ID:136:THR:HG22	46:ID:167:PHE:CD1	2.52	0.45
45:IE:221:ARG:HB2	46:IF:322:SER:OG	2.17	0.45
46:IF:290:THR:O	46:IF:293:MET:HB3	2.17	0.45
46:IJ:86:ARG:HA	46:IJ:86:ARG:HD2	1.77	0.45
45:IK:209:ILE:HB	45:IK:227:LEU:HD22	1.99	0.45
45:JA:80:THR:HA	45:JA:84:ARG:NH1	2.32	0.45
45:JC:184:PRO:O	45:JC:188:ILE:HG12	2.16	0.45
45:JE:98:ASP:OD1	45:JE:99:ALA:N	2.50	0.45
45:JG:118:CYS:O	45:JG:122:ILE:HG12	2.16	0.45
45:JI:318:MET:N	45:JI:318:MET:SD	2.90	0.45
45:JK:311:LYS:HE3	45:JK:344:VAL:HG23	1.99	0.45
46:JN:156:ARG:NH2	46:JN:197:ASP:OD1	2.50	0.45
46:JN:175:VAL:HG22	46:JN:205:GLU:HB2	1.97	0.45
45:KA:287:SER:O	45:KA:290:GLU:HG3	2.17	0.45
45:KC:411:GLU:N	45:KC:411:GLU:OE2	2.49	0.45
45:KE:396:ASP:OD1	45:KE:422:ARG:NH1	2.50	0.45
45:KG:136:LEU:HD22	45:KG:169:PHE:HE2	1.82	0.45
45:KG:177:VAL:HG21	46:KH:327:ASP:HB3	1.98	0.45
46:KH:130:LEU:HB3	46:KH:162:ARG:NH1	2.32	0.45
46:KJ:276:ARG:HA	46:KJ:279:GLN:HE22	1.82	0.45
46:KL:111:GLU:OE1	46:KL:111:GLU:N	2.46	0.45
46:KN:325:GLU:HA	46:KN:328:GLU:CD	2.36	0.45
45:LC:100:ALA:HA	46:LD:252:LYS:HD3	1.99	0.45
45:LG:36:MET:SD	45:LG:37:PRO:HD2	2.56	0.45
46:LH:310:TYR:HD1	46:LH:371:SER:HB3	1.82	0.45
45:MA:31:GLN:HG3	45:MA:37:PRO:HA	1.98	0.45
45:MA:90:GLU:O	45:MA:90:GLU:HG3	2.16	0.45
45:MA:260:VAL:O	46:MD:397:TRP:CH2	2.70	0.45
46:MB:86:ARG:NH1	46:MB:88:ASP:OD2	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MC:155:GLU:HG2	45:MC:197:HIS:CD2	2.52	0.45
46:MF:9:GLY:HA3	46:MF:66:MET:SD	2.57	0.45
46:MF:16:ILE:HD13	46:MF:226:ASN:OD1	2.17	0.45
46:MF:238:CYS:SG	46:MF:239:CYS:N	2.90	0.45
46:MJ:295:ASP:OD1	46:MJ:296:ALA:N	2.49	0.45
46:ML:116:VAL:HA	46:ML:119:VAL:HG22	1.98	0.45
45:MM:420:GLU:HA	45:MM:423:GLU:CD	2.37	0.45
46:MN:116:VAL:HA	46:MN:119:VAL:HG22	1.99	0.45
46:NB:372:THR:HA	46:NB:422:TYR:CE1	2.41	0.45
46:NB:381:VAL:HA	46:NB:384:GLN:NE2	2.31	0.45
46:NH:64:ILE:HA	46:NH:89:ASN:HB3	1.99	0.45
46:NH:190:HIS:CD2	46:NH:411:ALA:HA	2.51	0.45
46:NJ:122:LYS:NZ	46:OJ:291:GLN:HG3	2.32	0.45
45:NK:140:SER:HA	45:NK:171:ILE:HB	1.98	0.45
45:NK:141:VAL:HG22	45:NK:187:SER:HA	1.98	0.45
46:NL:165:GLU:HB2	46:NL:198:GLU:OE1	2.17	0.45
46:NL:208:TYR:HA	46:NL:211:CYS:SG	2.57	0.45
46:NL:238:CYS:HB2	46:NL:318:ARG:NH1	2.32	0.45
45:NM:121:ARG:HA	45:NM:121:ARG:NH1	2.32	0.45
45:OA:121:ARG:HD2	45:OA:124:LYS:NZ	2.32	0.45
45:OA:174:SER:HB3	45:OA:207:GLU:OE2	2.16	0.45
46:OB:39:ASP:OD1	46:OB:43:GLN:NE2	2.50	0.45
46:OB:179:VAL:HG13	46:OB:180:VAL:HG13	1.98	0.45
46:OD:282:ARG:HH12	46:OD:292:GLN:HE22	1.65	0.45
46:OF:286:VAL:HG21	46:OF:325:GLU:OE2	2.17	0.45
45:OG:320:ARG:HB2	45:OG:358:GLN:O	2.17	0.45
45:OI:288:VAL:HA	45:OI:291:ILE:HG12	1.98	0.45
46:ON:125:GLU:OE1	46:PN:336:LYS:NZ	2.50	0.45
45:PE:180:ALA:HA	46:PF:350:LYS:HE2	1.98	0.45
45:PE:313:MET:HB2	45:PE:380:ASN:O	2.17	0.45
46:PF:2:ARG:HE	46:PF:240:LEU:HG	1.82	0.45
45:PG:141:VAL:HG12	45:PG:171:ILE:O	2.16	0.45
46:PH:289:LEU:HD23	46:PH:289:LEU:HA	1.73	0.45
46:PJ:9:GLY:HA2	46:PJ:66:MET:O	2.17	0.45
46:PL:175:VAL:O	46:PL:175:VAL:HG23	2.17	0.45
46:PN:22:GLU:OE1	46:PN:80:PRO:HB2	2.17	0.45
46:PN:116:VAL:HA	46:PN:119:VAL:HG12	1.98	0.45
46:PN:201:VAL:HG23	46:PN:301:CYS:SG	2.57	0.45
46:PN:285:THR:HB	46:PN:287:PRO:HD2	1.99	0.45
46:QD:97:ALA:HB3	46:QD:143:THR:HB	1.98	0.45
45:QE:107:HIS:ND1	45:QE:107:HIS:O	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QG:123:ARG:HH22	45:RG:339:ARG:NH1	2.15	0.45
45:QI:324:VAL:HG12	45:QI:326:LYS:H	1.82	0.45
46:QL:21:TRP:CZ3	46:QL:61:PRO:HB3	2.52	0.45
46:QL:129:CYS:HB3	45:QM:96:LYS:NZ	2.31	0.45
45:RA:141:VAL:HG12	45:RA:171:ILE:O	2.17	0.45
46:RD:58:ARG:NH1	46:SD:280:GLN:OE1	2.49	0.45
46:RD:390:ARG:HB2	46:RD:390:ARG:NH1	2.32	0.45
45:RE:434:GLU:O	45:RE:437:ILE:HG22	2.17	0.45
45:RG:324:VAL:HG11	45:RG:326:LYS:NZ	2.32	0.45
46:RL:396:HIS:HA	46:RL:399:THR:OG1	2.16	0.45
45:RM:174:SER:CB	45:RM:177:VAL:HB	2.47	0.45
46:SB:48:ASN:O	46:SB:62:ARG:NH2	2.49	0.45
46:SB:253:LEU:HD13	46:SB:350:LYS:HZ3	1.81	0.45
45:SC:288:VAL:O	45:SC:291:ILE:HG22	2.17	0.45
45:SE:141:VAL:HG12	45:SE:171:ILE:O	2.16	0.45
45:SE:253:THR:HA	45:SE:256:GLN:HE22	1.81	0.45
46:SJ:391:ARG:HA	46:SJ:391:ARG:HD2	1.81	0.45
46:SL:4:ILE:HD11	46:SL:50:TYR:CE2	2.52	0.45
45:SM:201:ALA:O	45:SM:267:PHE:HA	2.16	0.45
46:TB:9:GLY:HA2	46:TB:66:MET:O	2.17	0.45
46:TB:232:ALA:O	46:TB:236:VAL:HG23	2.17	0.45
45:TC:34:GLY:O	45:TC:60:LYS:HA	2.17	0.45
45:TC:56:THR:OG1	45:UC:282:TYR:O	2.35	0.45
46:TD:315:ALA:HB1	46:TD:317:PHE:HE1	1.82	0.45
46:TF:87:PRO:HA	46:TF:90:PHE:HD2	1.81	0.45
46:TF:330:MET:SD	46:TF:349:ILE:HG21	2.57	0.45
45:TK:217:LEU:HB3	45:TK:219:ILE:HG13	1.98	0.45
45:TM:288:VAL:HG11	45:TM:323:VAL:HG23	1.99	0.45
45:TM:319:TYR:HB3	45:TM:373:ARG:NH1	2.32	0.45
45:UC:326:LYS:HD3	46:UD:220:PRO:HD2	1.99	0.45
46:UD:398:TYR:O	46:UD:403:MET:HB3	2.16	0.45
46:UF:327:ASP:O	46:UF:330:MET:HB2	2.17	0.45
46:UF:376:GLU:HA	46:UF:379:LYS:CG	2.46	0.45
46:UH:131:GLN:O	46:UH:162:ARG:NE	2.50	0.45
46:UH:252:LYS:NZ	47:UI:501:GTP:O1G	2.38	0.45
46:UH:342:VAL:HG13	46:UH:345:ILE:HG22	1.98	0.45
46:UJ:143:THR:O	46:UJ:147:MET:HE2	2.17	0.45
46:UL:344:TRP:HE3	46:UL:345:ILE:HG23	1.81	0.45
45:UM:174:SER:HA	45:UM:205:ASP:OD2	2.17	0.45
46:UN:3:GLU:HG3	46:UN:62:ARG:NH1	2.31	0.45
46:UN:396:HIS:HA	46:UN:399:THR:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:406:MET:O	46:UN:410:GLU:HG3	2.16	0.45
45:VA:76:ASP:OD2	46:VB:46:ARG:NH2	2.50	0.45
45:VA:141:VAL:HG12	45:VA:171:ILE:O	2.17	0.45
46:VB:139:LEU:HD13	46:VB:168:SER:HB3	1.98	0.45
46:VB:318:ARG:NH1	46:VB:358:PRO:HG3	2.32	0.45
46:VD:372:THR:HA	46:VD:422:TYR:CE2	2.48	0.45
46:VH:114:ASP:O	46:VH:117:LEU:HG	2.17	0.45
46:VH:164:MET:CE	46:VH:196:ALA:HA	2.46	0.45
45:VI:3:GLU:OE2	45:VI:131:GLY:N	2.50	0.45
45:VI:187:SER:O	45:VI:191:THR:HG23	2.15	0.45
46:VL:8:GLN:HG3	46:VL:14:ASN:ND2	2.32	0.45
45:WA:35:GLN:OE1	45:WA:35:GLN:N	2.50	0.45
45:WA:221:ARG:HH22	46:WB:324:LYS:HG3	1.82	0.45
45:WI:74:VAL:O	45:WI:77:GLU:HG3	2.16	0.45
45:WI:205:ASP:OD1	45:WI:303:ALA:HA	2.17	0.45
46:WJ:64:ILE:HA	46:WJ:89:ASN:HB3	1.99	0.45
45:WM:217:LEU:HB3	45:WM:219:ILE:HG12	1.99	0.45
45:CE:319:TYR:HB3	45:CE:323:VAL:HG11	1.98	0.45
2:0B:214:LYS:HB2	45:JI:48:ALA:HB2	1.97	0.45
3:0C:45:PRO:HG3	46:DH:44:LEU:HD21	1.99	0.45
4:1D:53:ILE:O	45:EG:221:ARG:NH1	2.47	0.45
31:2I:95:LYS:HB2	46:GF:332:ASN:HD21	1.82	0.45
21:2L:900:HIS:HA	46:CJ:320:ARG:NH2	2.31	0.45
23:2O:254:LYS:HD3	45:UI:58:ALA:HB1	1.98	0.45
12:2T:83:GLN:OE1	45:MG:412:GLY:HA2	2.17	0.45
14:2V:101:ILE:HA	45:LE:415:GLU:OE2	2.17	0.45
14:2V:106:TYR:OH	45:LE:196:GLU:OE2	2.23	0.45
34:4R:267:LEU:HD12	34:4R:268:GLU:HG2	1.98	0.45
34:4R:461:LYS:NZ	46:FF:218:THR:HG21	2.32	0.45
15:4X:18:ILE:HD11	46:LL:81:PHE:HE1	1.82	0.45
36:5D:21:GLN:OE1	46:KN:409:THR:HG22	2.17	0.45
36:5D:32:ALA:O	36:5D:34:PHE:N	2.50	0.45
37:5G:108:LYS:NZ	46:NJ:37:HIS:HA	2.31	0.45
34:5R:80:ARG:NH2	45:MI:36:MET:O	2.50	0.45
34:5R:399:GLY:HA2	34:5R:402:TYR:HD2	1.81	0.45
34:5R:509:ASP:O	34:5R:512:THR:OG1	2.23	0.45
40:6G:194:VAL:O	40:6G:197:GLU:HG3	2.17	0.45
34:6R:426:PHE:CE1	34:6R:512:THR:HG21	2.52	0.45
45:AC:311:LYS:N	45:AC:382:THR:OG1	2.50	0.45
45:AE:112:LYS:NZ	45:AE:113:GLU:OE2	2.39	0.45
45:AE:251:ASP:H	45:AE:254:GLU:HG2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AH:226:ASN:ND2	49:AH:501:GDP:HN1	2.14	0.45
45:AI:64:ARG:NH1	45:AI:129:CYS:SG	2.89	0.45
46:AJ:268:ILE:HG22	46:AJ:368:VAL:HG22	1.99	0.45
46:AJ:323:THR:HG22	46:AJ:353:ILE:HD13	1.98	0.45
46:AL:201:VAL:HG23	46:AL:301:CYS:SG	2.57	0.45
45:AM:214:ARG:HG2	45:AM:214:ARG:HH11	1.80	0.45
46:AN:54:ALA:HA	46:BN:283:ALA:HB2	1.98	0.45
46:AN:272:PRO:HG3	46:AN:284:LEU:HD11	1.99	0.45
45:BA:88:HIS:O	45:BA:90:GLU:N	2.50	0.45
46:BD:103:LYS:HA	46:BD:401:GLU:OE2	2.17	0.45
46:BF:218:THR:HG1	46:BF:219:THR:H	1.65	0.45
46:BH:1:MET:O	46:BH:2:ARG:HG2	2.17	0.45
46:BH:116:VAL:HA	46:BH:119:VAL:HG22	1.99	0.45
46:BL:184:ASN:OD1	46:BL:185:ALA:N	2.50	0.45
45:BM:214:ARG:HA	45:BM:214:ARG:HD2	1.67	0.45
46:CB:46:ARG:NH2	45:CC:76:ASP:OD1	2.49	0.45
46:CD:182:PRO:HD2	46:CD:388:MET:HE1	1.98	0.45
45:CG:211:ASP:CG	45:CG:215:ARG:HE	2.20	0.45
45:CI:183:GLU:N	45:CI:184:PRO:HD2	2.32	0.45
46:CJ:116:VAL:O	46:CJ:120:VAL:HG23	2.17	0.45
46:CJ:289:LEU:HD11	46:CJ:363:MET:HG3	1.99	0.45
45:CK:68:LEU:HD21	45:CK:118:CYS:HB2	1.98	0.45
46:CL:12:CYS:O	46:CL:16:ILE:HG12	2.17	0.45
46:CN:273:LEU:H	46:CN:292:GLN:NE2	2.15	0.45
46:DB:167:PHE:CE1	46:DB:233:MET:HG3	2.50	0.45
46:DJ:312:THR:HG22	46:DJ:370:ASN:HB3	1.98	0.45
46:DJ:362:LYS:HG3	46:DJ:363:MET:HG2	1.98	0.45
45:EA:64:ARG:NH1	45:EA:129:CYS:SG	2.90	0.45
46:EB:212:PHE:CE2	46:EB:220:PRO:HG2	2.51	0.45
46:ED:325:GLU:HB2	45:EE:221:ARG:CZ	2.46	0.45
45:EG:209:ILE:CD1	45:EG:227:LEU:HD23	2.47	0.45
46:EH:258:ILE:HG13	46:EH:258:ILE:O	2.17	0.45
46:EL:65:LEU:HD22	46:EL:90:PHE:CE1	2.52	0.45
46:EL:412:GLU:HA	46:EL:415:MET:HG3	1.99	0.45
45:FA:51:THR:HG22	45:FA:52:PHE:CD1	2.52	0.45
45:FA:420:GLU:HA	45:FA:423:GLU:CD	2.37	0.45
46:FB:116:VAL:HA	46:FB:119:VAL:HG12	1.98	0.45
46:FB:216:LYS:HD2	46:FB:216:LYS:O	2.17	0.45
45:FC:371:VAL:HG12	45:FC:373:ARG:H	1.82	0.45
46:FD:321:MET:HB2	46:FD:325:GLU:OE2	2.17	0.45
46:FF:230:SER:HA	46:FF:233:MET:CE	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FF:318:ARG:HH11	46:FF:358:PRO:HG3	1.82	0.45
45:FI:21:TRP:CZ3	45:FI:63:PRO:HB3	2.52	0.45
46:FJ:222:TYR:HD1	49:FJ:501:GDP:C6	2.35	0.45
46:GB:166:THR:HG21	46:GB:192:LEU:HD11	1.99	0.45
45:GC:107:HIS:ND1	45:GC:107:HIS:O	2.48	0.45
45:GG:346:TRP:CD1	46:GJ:391:ARG:HG3	2.51	0.45
45:GK:185:TYR:O	45:GK:188:ILE:HG22	2.16	0.45
46:GL:6:HIS:NE2	46:GL:8:GLN:OE1	2.50	0.45
46:GL:171:PRO:HB3	46:GL:181:GLU:OE1	2.17	0.45
46:HD:107:THR:OG1	46:HD:108:GLU:OE1	2.23	0.45
46:HD:316:LEU:HD23	46:HD:352:SER:HB2	1.98	0.45
46:HF:295:ASP:OD1	46:HF:296:ALA:N	2.49	0.45
45:HI:107:HIS:O	45:HI:107:HIS:ND1	2.50	0.45
45:HI:175:PRO:HG3	45:HI:390:ARG:CZ	2.47	0.45
45:HI:227:LEU:O	45:HI:231:ILE:HG12	2.16	0.45
46:HL:22:GLU:HG2	46:HL:81:PHE:CD1	2.51	0.45
45:HM:21:TRP:CZ2	45:HM:65:ALA:HB2	2.52	0.45
46:HN:118:ASP:HA	46:HN:121:ARG:NH1	2.32	0.45
46:HN:221:THR:HG23	46:HN:223:GLY:H	1.81	0.45
46:IB:87:PRO:HA	46:IB:90:PHE:HD2	1.82	0.45
45:IE:209:ILE:HA	45:IE:212:ILE:HD12	1.98	0.45
45:IE:256:GLN:HB2	46:IH:397:TRP:HH2	1.82	0.45
46:IF:21:TRP:CZ3	46:IF:61:PRO:HB3	2.52	0.45
45:II:346:TRP:CD1	46:IL:391:ARG:HG3	2.51	0.45
45:IK:200:VAL:HG13	45:IK:268:MET:SD	2.57	0.45
46:IL:97:ALA:HB3	46:IL:143:THR:HB	1.99	0.45
45:JA:167:LEU:HD13	45:JA:200:VAL:HB	1.98	0.45
45:JC:46:ASP:N	45:JC:46:ASP:OD1	2.50	0.45
45:JE:10:GLY:O	45:JE:14:ILE:HG12	2.17	0.45
45:JE:288:VAL:HA	45:JE:291:ILE:HG22	1.98	0.45
45:JG:141:VAL:HG11	45:JG:172:TYR:CD1	2.52	0.45
46:JH:21:TRP:CH2	46:JH:61:PRO:HB3	2.51	0.45
46:JH:69:GLU:CD	46:JH:71:GLY:H	2.20	0.45
45:JM:35:GLN:N	45:JM:35:GLN:OE1	2.50	0.45
45:JM:387:VAL:HG12	45:JM:390:ARG:NH1	2.32	0.45
45:JM:407:TRP:CZ2	46:JN:258:ILE:HG23	2.52	0.45
46:JN:73:MET:HA	46:JN:76:VAL:HG12	1.98	0.45
45:KA:72:PRO:HD2	46:KB:2:ARG:NH2	2.32	0.45
45:KC:10:GLY:O	45:KC:14:ILE:HG12	2.17	0.45
46:KF:10:GLY:O	46:KF:14:ASN:ND2	2.50	0.45
46:KF:202:ILE:HD11	46:KF:207:LEU:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KG:5:ILE:HD12	45:KG:125:LEU:HD23	1.99	0.45
45:KG:185:TYR:CZ	45:KG:398:MET:HE3	2.51	0.45
46:KH:395:LEU:O	46:KH:399:THR:HG23	2.17	0.45
46:KJ:83:GLN:N	46:KJ:83:GLN:OE1	2.49	0.45
46:KJ:172:SER:HB2	46:KJ:174:LYS:HZ3	1.82	0.45
46:KL:21:TRP:CZ3	46:KL:61:PRO:HB3	2.52	0.45
46:KL:61:PRO:HG2	46:KL:85:PHE:CD1	2.45	0.45
46:KL:232:ALA:HB1	46:KL:268:ILE:HD12	1.98	0.45
45:KM:328:VAL:HG11	45:KM:353:VAL:HG21	1.99	0.45
46:LB:284:LEU:HD23	46:LB:284:LEU:HA	1.87	0.45
46:LB:289:LEU:O	46:LB:293:MET:HG2	2.17	0.45
45:LC:434:GLU:O	45:LC:437:ILE:HG12	2.17	0.45
46:LH:73:MET:HE1	46:LH:90:PHE:HB3	1.99	0.45
46:LL:17:GLY:O	46:LL:21:TRP:HD1	2.00	0.45
46:LN:177:ASP:OD1	46:LN:178:THR:N	2.50	0.45
46:MD:215:LEU:HD21	46:MD:273:LEU:HD23	1.99	0.45
45:ME:205:ASP:OD1	45:ME:303:ALA:HA	2.16	0.45
45:MK:154:LEU:HD23	45:MK:157:LEU:HD21	1.98	0.45
46:ML:372:THR:HA	46:ML:422:TYR:CE2	2.52	0.45
45:MM:328:VAL:HG11	45:MM:353:VAL:HG21	1.98	0.45
46:MN:36:TYR:HB2	46:MN:59:TYR:HE1	1.82	0.45
45:NA:98:ASP:O	45:NA:105:ARG:NH2	2.48	0.45
45:NA:261:PRO:HA	46:ND:394:PHE:CE1	2.52	0.45
45:NA:269:LEU:HD23	45:NA:384:ILE:HD13	1.98	0.45
45:NA:339:ARG:O	45:NA:342:GLN:NE2	2.50	0.45
45:NC:284:GLU:HG3	45:NC:285:GLN:N	2.32	0.45
45:NG:338:LYS:HG3	45:NG:340:THR:HG22	1.99	0.45
46:NH:116:VAL:HA	46:NH:119:VAL:HG12	1.99	0.45
45:NI:172:TYR:HD1	45:NI:173:PRO:HD2	1.82	0.45
46:NJ:39:ASP:H	46:NJ:43:GLN:HE22	1.64	0.45
45:NK:165:SER:HA	45:NK:199:ASP:OD2	2.16	0.45
45:OA:141:VAL:HG22	45:OA:187:SER:HA	1.99	0.45
46:OD:103:LYS:HB3	46:OD:103:LYS:HE3	1.78	0.45
46:OD:175:VAL:HG11	46:OD:208:TYR:CE2	2.52	0.45
45:OK:217:LEU:HB3	45:OK:219:ILE:HG12	1.99	0.45
46:OL:203:ASP:O	46:OL:207:LEU:HG	2.17	0.45
45:OM:139:ASN:OD1	45:OM:140:SER:N	2.49	0.45
46:ON:23:VAL:O	46:ON:27:GLU:OE1	2.34	0.45
46:ON:190:HIS:ND1	46:ON:411:ALA:HA	2.31	0.45
45:PC:387:VAL:O	45:PC:390:ARG:HG3	2.17	0.45
45:PE:2:ARG:NH2	45:PE:242:LEU:HD23	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PF:318:ARG:HB2	46:PF:364:ALA:HB3	1.99	0.45
45:PG:201:ALA:HB3	45:PG:267:PHE:HD1	1.81	0.45
45:PG:310:GLY:HA3	45:PG:383:ALA:HB2	1.99	0.45
45:PI:55:GLU:OE1	45:PI:56:THR:N	2.50	0.45
46:PJ:294:PHE:HD2	46:PJ:333:VAL:HG21	1.79	0.45
46:PN:345:ILE:O	46:PN:345:ILE:HG13	2.17	0.45
46:QB:21:TRP:HE1	46:QB:63:ALA:HB2	1.82	0.45
45:QC:256:GLN:NE2	46:QD:397:TRP:HE1	2.15	0.45
45:QE:231:ILE:O	45:QE:235:ILE:HG12	2.17	0.45
45:QG:89:PRO:HD3	45:RG:280:LYS:HE3	1.98	0.45
45:QK:69:ASP:O	45:QK:94:SER:HA	2.15	0.45
45:QK:88:HIS:HB3	45:QK:91:GLN:CG	2.46	0.45
45:QK:352:LYS:NZ	46:QL:179:VAL:H	2.03	0.45
46:QL:138:SER:HA	46:QL:169:VAL:HB	1.99	0.45
46:QL:187:LEU:HD21	46:QL:408:PHE:CE2	2.52	0.45
46:RB:397:TRP:O	46:RB:401:GLU:HG3	2.16	0.45
45:RC:432:TYR:HA	45:RC:435:VAL:HG12	1.99	0.45
46:RD:86:ARG:NH2	46:SD:282:ARG:HA	2.32	0.45
45:RE:103:PHE:HB2	45:RE:186:ASN:HB3	1.99	0.45
45:RE:140:SER:OG	47:RE:501:GTP:O2B	2.20	0.45
45:RE:209:ILE:HG23	45:RE:227:LEU:HD22	1.99	0.45
45:RG:229:ARG:HH12	45:RG:366:GLY:HA2	1.80	0.45
45:RG:326:LYS:HD2	46:RH:212:PHE:CZ	2.50	0.45
46:RH:45:GLU:HG3	46:RH:46:ARG:HG2	1.99	0.45
46:RH:318:ARG:HH11	46:RH:358:PRO:HG3	1.80	0.45
46:RJ:2:ARG:N	46:RJ:129:CYS:HG	2.14	0.45
45:RK:384:ILE:O	45:RK:387:VAL:HG22	2.16	0.45
46:SB:45:GLU:O	46:SB:46:ARG:HD3	2.16	0.45
46:SB:65:LEU:HD22	46:SB:90:PHE:CE1	2.51	0.45
45:SE:11:GLN:OE1	45:SE:15:GLN:NE2	2.49	0.45
45:SE:333:ALA:O	45:SE:337:THR:HG23	2.16	0.45
45:SE:377:MET:SD	45:SE:379:SER:HB3	2.56	0.45
45:SG:51:THR:HB	45:SG:243:ARG:HD3	1.99	0.45
45:SI:151:SER:O	45:SI:155:GLU:HG2	2.17	0.45
45:SI:287:SER:O	45:SI:291:ILE:HG23	2.16	0.45
46:SJ:86:ARG:NH1	46:SJ:87:PRO:HD2	2.32	0.45
46:SJ:324:LYS:HE2	46:SJ:324:LYS:HB2	1.68	0.45
46:SL:321:MET:SD	46:SL:363:MET:HG3	2.57	0.45
45:SM:226:ASN:O	45:SM:230:LEU:HD23	2.17	0.45
45:TC:141:VAL:HG22	45:TC:187:SER:HA	1.99	0.45
45:TE:60:LYS:HZ1	45:UE:282:TYR:HD2	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TF:289:LEU:O	46:TF:293:MET:HB2	2.16	0.45
46:TH:324:LYS:HD3	45:TI:222:PRO:HD2	1.98	0.45
46:TJ:380:ARG:HE	46:TJ:380:ARG:HB3	1.64	0.45
45:TM:93:ILE:HG22	45:TM:114:ILE:HD11	1.99	0.45
46:TN:3:GLU:HG3	46:TN:62:ARG:HH12	1.81	0.45
46:UB:193:VAL:O	46:UB:262:ARG:NH2	2.50	0.45
45:UC:254:GLU:O	45:UC:258:ASN:ND2	2.50	0.45
46:UD:28:HIS:C	46:UD:43:GLN:HE21	2.19	0.45
46:UD:325:GLU:O	46:UD:328:GLU:HG2	2.17	0.45
46:UF:313:ALA:HB1	46:UF:367:PHE:HE1	1.81	0.45
46:UJ:7:ILE:HB	46:UJ:135:ILE:HG12	1.99	0.45
45:UK:51:THR:HG22	45:UK:52:PHE:CD1	2.52	0.45
45:UK:254:GLU:O	45:UK:255:PHE:HD1	2.00	0.45
45:UK:384:ILE:O	45:UK:387:VAL:HG22	2.17	0.45
46:UL:6:HIS:CD2	46:UL:21:TRP:HE1	2.35	0.45
46:UL:235:GLY:HA3	46:UL:366:THR:HG21	1.98	0.45
46:UN:405:GLU:HA	46:UN:408:PHE:CD2	2.52	0.45
45:VA:109:THR:HB	45:VA:110:ILE:HD12	1.98	0.45
45:VA:224:TYR:HA	45:VA:227:LEU:HD23	1.99	0.45
45:VA:261:PRO:HG3	46:VD:394:PHE:CZ	2.52	0.45
46:VB:196:ALA:HB3	46:VB:264:HIS:CE1	2.52	0.45
45:VC:88:HIS:NE2	45:WC:284:GLU:OE2	2.46	0.45
45:VC:261:PRO:O	46:VF:396:HIS:NE2	2.50	0.45
46:VF:310:TYR:CD1	46:VF:371:SER:HB2	2.52	0.45
45:VG:147:SER:HB2	45:VG:190:SER:HB3	1.98	0.45
45:VG:245:ASP:OD2	45:VG:245:ASP:N	2.47	0.45
46:VH:293:MET:HE1	46:VH:367:PHE:CD1	2.51	0.45
45:VI:352:LYS:HE2	46:VL:177:ASP:O	2.17	0.45
46:VL:114:ASP:O	46:VL:117:LEU:HG	2.17	0.45
45:VM:212:ILE:HD11	45:VM:300:ASN:HA	1.98	0.45
46:VN:247:ASN:O	46:VN:252:LYS:NZ	2.35	0.45
46:VN:274:THR:HB	46:VN:282:ARG:HH11	1.82	0.45
45:WA:262:TYR:OH	46:WD:391:ARG:O	2.30	0.45
46:WB:200:MET:CE	46:WB:266:PHE:HB2	2.47	0.45
46:WB:317:PHE:HD1	46:WB:365:VAL:HG22	1.81	0.45
46:WF:67:ASP:OD1	46:WF:68:LEU:N	2.47	0.45
45:CE:2:ARG:HB2	45:CE:133:GLN:HE22	1.81	0.45
2:0B:304:ARG:NH2	45:KI:322:ASP:HB3	2.32	0.45
8:1H:334:TYR:OH	46:HD:280:GLN:NE2	2.49	0.45
21:1L:753:ARG:HB2	46:BD:362:LYS:HZ2	1.80	0.45
9:2N:258:THR:HB	46:LB:276:ARG:HH12	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:156:ARG:CZ	45:VK:278:ALA:H	2.30	0.45
1:3A:125:LEU:H	46:AN:279:GLN:HE22	1.65	0.45
35:4S:111:GLU:OE1	35:4S:116:TYR:HB2	2.17	0.45
15:4X:104:GLN:O	15:4X:108:LYS:HG2	2.16	0.45
37:5F:44:ARG:NH1	45:NC:56:THR:O	2.49	0.45
10:5Q:72:LYS:HG3	10:5Q:149:ILE:O	2.17	0.45
35:5S:81:HIS:HE1	45:WE:164:LYS:HB2	1.81	0.45
35:5S:161:THR:O	35:5S:165:ILE:HG13	2.17	0.45
40:6G:86:LYS:C	40:6G:87:LYS:HD2	2.38	0.45
10:6Q:83:LEU:HG	10:6Q:85:LYS:HG2	1.97	0.45
10:6Q:104:ARG:NE	45:AM:423:GLU:OE1	2.50	0.45
10:6Q:150:GLU:OE1	10:6Q:152:LEU:HD23	2.17	0.45
34:6R:153:GLN:NE2	34:6R:156:SER:HB2	2.30	0.45
46:AD:40:SER:H	46:AD:43:GLN:HE21	1.64	0.45
45:AE:242:LEU:HD21	45:AE:252:ILE:HG12	1.99	0.45
45:AE:384:ILE:O	45:AE:387:VAL:HG22	2.17	0.45
45:AG:152:LEU:O	45:AG:156:ARG:HG2	2.17	0.45
46:AL:20:PHE:O	46:AL:24:ILE:HG12	2.16	0.45
46:AL:77:ARG:HG3	46:AL:77:ARG:HH11	1.82	0.45
45:BA:116:ASP:O	45:BA:119:LEU:HG	2.17	0.45
45:BE:5:ILE:HB	45:BE:135:PHE:CD1	2.52	0.45
46:BH:48:ASN:HA	46:BH:51:TYR:O	2.17	0.45
46:BH:91:VAL:HG21	46:BH:116:VAL:HB	1.98	0.45
45:BI:38:SER:O	45:BI:38:SER:OG	2.35	0.45
45:BI:102:ASN:HB3	45:BI:105:ARG:HD3	1.99	0.45
45:BI:219:ILE:HG22	45:BI:222:PRO:HD3	1.97	0.45
45:BI:414:GLU:CD	45:BI:416:GLY:H	2.21	0.45
45:BK:24:PHE:CZ	45:BK:52:PHE:HE1	2.35	0.45
46:BL:421:GLU:HA	46:BL:424:GLN:OE1	2.17	0.45
46:BN:316:LEU:HG	46:BN:352:SER:OG	2.16	0.45
45:CC:346:TRP:CD1	46:CD:391:ARG:HG3	2.51	0.45
46:CD:8:GLN:N	46:CD:8:GLN:OE1	2.50	0.45
46:CD:141:GLY:O	46:CD:145:SER:CB	2.64	0.45
46:CF:99:ASN:HA	46:CF:142:GLY:H	1.82	0.45
45:CG:434:GLU:O	45:CG:437:ILE:HG12	2.17	0.45
45:CI:174:SER:HB2	45:CI:177:VAL:O	2.17	0.45
45:CI:432:TYR:HA	45:CI:435:VAL:HG12	1.98	0.45
46:CL:105:HIS:CE1	46:CL:150:LEU:HD12	2.52	0.45
46:CL:276:ARG:HE	46:CL:276:ARG:HB3	1.61	0.45
46:CL:325:GLU:HA	46:CL:328:GLU:CG	2.42	0.45
45:DA:256:GLN:HB2	45:DA:260:VAL:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DD:344:TRP:HB3	46:DD:430:ALA:HB2	1.99	0.45
45:DE:48:ALA:O	45:DE:51:THR:HG22	2.17	0.45
45:DE:167:LEU:HG	45:DE:200:VAL:HB	1.99	0.45
46:DF:87:PRO:HA	46:DF:90:PHE:HD2	1.82	0.45
46:DJ:46:ARG:NH2	45:DK:76:ASP:OD2	2.50	0.45
45:EA:167:LEU:HG	45:EA:200:VAL:HB	1.99	0.45
45:EA:387:VAL:HA	45:EA:390:ARG:HG2	1.99	0.45
46:EF:239:CYS:HA	46:EF:354:CYS:SG	2.57	0.45
46:EF:263:LEU:HD11	46:EF:421:GLU:OE1	2.17	0.45
46:EJ:361:LEU:C	46:EJ:362:LYS:HD3	2.38	0.45
45:EM:127:ASP:OD1	45:EM:128:ASN:N	2.50	0.45
45:FA:72:PRO:HA	45:FA:75:ILE:HG22	1.98	0.45
45:FA:221:ARG:NH1	46:FB:325:GLU:H	2.15	0.45
46:FB:6:HIS:O	46:FB:63:ALA:HA	2.17	0.45
46:FD:21:TRP:CZ3	46:FD:61:PRO:HB3	2.52	0.45
46:FD:233:MET:O	46:FD:236:VAL:HG12	2.17	0.45
46:FD:391:ARG:HA	46:FD:391:ARG:HD2	1.78	0.45
45:FG:326:LYS:HA	46:FJ:208:TYR:HE1	1.82	0.45
45:FK:93:ILE:HG22	45:FK:114:ILE:HD11	1.99	0.45
45:FK:181:VAL:HG12	46:FL:347:ASN:O	2.17	0.45
45:GE:221:ARG:CZ	46:GF:322:SER:H	2.30	0.45
45:GE:430:LYS:HA	45:GE:430:LYS:HD3	1.68	0.45
46:GJ:345:ILE:HG23	46:GJ:348:ASN:HB3	1.98	0.45
45:GK:109:THR:HB	45:GK:110:ILE:HD12	1.99	0.45
45:GM:210:TYR:OH	46:GN:323:THR:OG1	2.34	0.45
46:HD:18:ALA:HB3	46:HD:19:LYS:NZ	2.32	0.45
45:HE:227:LEU:O	45:HE:231:ILE:HG12	2.17	0.45
45:HG:60:LYS:HD2	45:IG:283:HIS:CD2	2.51	0.45
45:HI:105:ARG:O	45:HI:110:ILE:HG22	2.17	0.45
45:HI:188:ILE:HG13	45:HI:425:LEU:HD11	1.99	0.45
45:HK:18:ASN:OD1	45:HK:19:ALA:N	2.50	0.45
46:HN:143:THR:O	46:HN:147:MET:HG2	2.17	0.45
46:IB:273:LEU:H	46:IB:292:GLN:NE2	2.04	0.45
45:IC:10:GLY:O	45:IC:14:ILE:HG12	2.17	0.45
45:IC:296:PHE:CE2	45:IC:335:ILE:HG21	2.51	0.45
46:ID:109:GLY:O	46:ID:113:ILE:HG23	2.16	0.45
45:IG:231:ILE:O	45:IG:235:ILE:HG12	2.17	0.45
46:IH:116:VAL:O	46:IH:120:VAL:HG23	2.16	0.45
46:IJ:12:CYS:O	46:IJ:16:ILE:HG12	2.17	0.45
46:IL:217:LEU:HD23	46:IL:217:LEU:H	1.83	0.45
46:IL:290:THR:HG21	46:IL:329:GLN:HG2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IN:207:LEU:HB3	46:IN:225:LEU:HD22	1.98	0.45
46:IN:208:TYR:HA	46:IN:211:CYS:SG	2.57	0.45
45:JA:274:PRO:HD3	45:JA:291:ILE:HD11	1.99	0.45
46:JB:280:GLN:HG2	46:JB:281:TYR:CD2	2.52	0.45
46:JD:5:VAL:HG12	46:JD:62:ARG:HD3	1.98	0.45
45:JE:434:GLU:O	45:JE:437:ILE:HG12	2.17	0.45
46:JF:116:VAL:HA	46:JF:119:VAL:HG22	1.98	0.45
45:JG:222:PRO:O	46:JH:322:SER:HB2	2.17	0.45
45:JG:286:LEU:N	45:JG:290:GLU:OE2	2.50	0.45
45:JI:107:HIS:ND1	45:JI:107:HIS:O	2.50	0.45
46:JL:68:LEU:HD12	46:JL:97:ALA:HB2	1.99	0.45
45:JM:2:ARG:HD3	45:JM:242:LEU:HD22	1.99	0.45
46:KB:238:CYS:SG	46:KB:239:CYS:N	2.89	0.45
46:KF:292:GLN:HG2	46:KF:298:ASN:ND2	2.31	0.45
46:KF:332:ASN:C	46:KF:336:LYS:HZ2	2.21	0.45
45:KI:118:CYS:O	45:KI:122:ILE:HG12	2.17	0.45
45:KK:10:GLY:O	45:KK:14:ILE:HG12	2.17	0.45
45:KK:188:ILE:HG22	45:KK:421:ALA:HB1	1.99	0.45
46:LB:135:ILE:HG13	46:LB:152:ILE:HD11	1.98	0.45
46:LB:156:ARG:HA	46:LB:156:ARG:HD2	1.72	0.45
45:LI:155:GLU:HG2	45:LI:197:HIS:NE2	2.32	0.45
46:LJ:201:VAL:HG23	46:LJ:301:CYS:SG	2.57	0.45
45:LK:19:ALA:HA	45:LK:22:GLU:HG2	1.98	0.45
45:LK:430:LYS:HA	45:LK:433:GLU:OE2	2.16	0.45
45:LM:68:LEU:HD11	45:LM:114:ILE:CG2	2.47	0.45
45:MA:313:MET:N	45:MA:313:MET:SD	2.90	0.45
45:MA:419:SER:O	45:MA:423:GLU:HG2	2.17	0.45
46:MH:273:LEU:H	46:MH:292:GLN:NE2	2.15	0.45
45:MI:66:VAL:HG11	45:MI:122:ILE:HD11	1.98	0.45
46:MJ:3:GLU:HG3	46:MJ:62:ARG:NH1	2.32	0.45
46:MJ:36:TYR:HB2	46:MJ:59:TYR:HE2	1.82	0.45
46:MJ:107:THR:HG23	46:MJ:108:GLU:HG2	1.99	0.45
45:NA:229:ARG:HD3	45:NA:363:VAL:HG11	1.99	0.45
46:NB:125:GLU:OE2	46:OB:336:LYS:NZ	2.49	0.45
46:NB:174:LYS:HB2	46:NB:205:GLU:OE1	2.17	0.45
46:NB:345:ILE:HG22	46:NB:348:ASN:HB3	1.99	0.45
45:NC:138:PHE:CD2	45:NC:169:PHE:HB2	2.51	0.45
45:NC:371:VAL:HG22	45:NC:373:ARG:H	1.82	0.45
45:NE:153:LEU:HD23	45:NE:153:LEU:HA	1.83	0.45
45:NI:132:LEU:O	45:NI:164:LYS:NZ	2.49	0.45
46:NJ:230:SER:HA	46:NJ:233:MET:HE3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NM:224:TYR:CD1	45:NM:227:LEU:HD21	2.51	0.45
46:OB:5:VAL:HG12	46:OB:62:ARG:HD3	1.99	0.45
46:OF:173:PRO:HD3	46:OF:380:ARG:NH1	2.32	0.45
45:OG:88:HIS:NE2	45:OG:90:GLU:HB3	2.32	0.45
46:OH:67:ASP:O	46:OH:92:PHE:HA	2.16	0.45
45:OI:331:SER:O	45:OI:335:ILE:HG12	2.17	0.45
47:OI:501:GTP:O1G	46:OJ:252:LYS:NZ	2.42	0.45
45:OK:88:HIS:O	45:OK:91:GLN:HG2	2.17	0.45
45:OM:407:TRP:HH2	46:ON:254:ALA:HB1	1.80	0.45
46:ON:105:HIS:CE1	46:ON:150:LEU:HD13	2.52	0.45
45:PA:2:ARG:NH2	46:PD:70:PRO:HD2	2.32	0.45
46:PB:310:TYR:HD2	46:PB:341:PHE:HE1	1.65	0.45
45:PC:5:ILE:HD13	45:PC:135:PHE:HE1	1.81	0.45
46:PD:8:GLN:NE2	46:PD:10:GLY:O	2.49	0.45
46:PD:260:PHE:HB3	46:PD:262:ARG:NH2	2.32	0.45
45:PG:223:THR:HG23	45:PG:225:THR:H	1.82	0.45
45:PI:60:LYS:HE3	45:PI:60:LYS:HB3	1.85	0.45
45:PI:297:GLU:HB2	45:PI:300:ASN:ND2	2.32	0.45
46:PL:232:ALA:HB1	46:PL:268:ILE:HD12	1.99	0.45
46:PN:86:ARG:NE	46:PN:87:PRO:HD2	2.32	0.45
46:PN:141:GLY:HA3	49:PN:502:GDP:PB	2.57	0.45
45:QC:259:LEU:HD13	45:QC:268:MET:HE1	1.97	0.45
45:QG:70:LEU:HD13	45:QG:145:THR:OG1	2.17	0.45
45:QG:202:VAL:HA	45:QG:268:MET:O	2.17	0.45
45:QG:393:HIS:O	45:QG:397:LEU:HD23	2.17	0.45
46:QH:108:GLU:O	46:QH:111:GLU:HG3	2.17	0.45
45:QM:271:SER:HA	45:QM:302:MET:HG2	1.98	0.45
45:RC:52:PHE:HZ	45:RC:239:THR:HG21	1.81	0.45
45:RC:91:GLN:N	45:RC:91:GLN:OE1	2.49	0.45
45:RE:52:PHE:HE2	45:RE:243:ARG:NE	2.14	0.45
45:RE:101:ASN:HA	45:RE:144:GLY:H	1.82	0.45
45:RE:363:VAL:HG13	45:RE:366:GLY:HA3	1.99	0.45
46:RF:19:LYS:HD2	46:RF:227:HIS:NE2	2.32	0.45
46:RF:135:ILE:HD11	46:RF:152:ILE:HD11	1.98	0.45
45:RG:17:GLY:HA2	45:RG:20:CYS:SG	2.57	0.45
45:RI:15:GLN:OE1	47:RI:501:GTP:N7	2.49	0.45
46:RL:156:ARG:NE	46:RL:156:ARG:HA	2.32	0.45
46:RL:309:ARG:NH1	46:RL:309:ARG:HB2	2.32	0.45
46:RN:5:VAL:HG12	46:RN:62:ARG:HD3	1.98	0.45
46:SB:164:MET:H	46:SB:197:ASP:HB2	1.81	0.45
45:SC:231:ILE:O	45:SC:235:ILE:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SD:26:ASP:O	46:SD:359:LYS:NZ	2.33	0.45
45:SE:85:GLN:OE1	45:SE:85:GLN:N	2.45	0.45
45:SE:88:HIS:ND1	45:SE:89:PRO:HD2	2.31	0.45
45:SG:60:LYS:HD3	45:TG:283:HIS:CD2	2.52	0.45
45:SG:411:GLU:N	45:SG:411:GLU:OE1	2.49	0.45
46:SH:58:ARG:NH1	46:TH:280:GLN:OE1	2.49	0.45
46:SH:139:LEU:HD13	46:SH:168:SER:HB2	1.98	0.45
46:SJ:254:ALA:O	46:SJ:258:ILE:HG12	2.16	0.45
46:SJ:258:ILE:HG13	45:SK:407:TRP:HE1	1.82	0.45
45:SK:207:GLU:O	45:SK:210:TYR:HB2	2.16	0.45
46:TB:305:PRO:HB2	46:TB:310:TYR:CE1	2.52	0.45
45:TC:28:HIS:HE1	45:TC:243:ARG:HD2	1.81	0.45
45:TC:185:TYR:HE2	45:TC:404:PHE:HB2	1.82	0.45
46:TD:97:ALA:O	46:TD:103:LYS:NZ	2.38	0.45
45:TE:352:LYS:NZ	46:TF:178:THR:HA	2.29	0.45
46:TF:16:ILE:HD13	46:TF:226:ASN:OD1	2.17	0.45
46:TF:210:ILE:HG13	46:TF:211:CYS:N	2.32	0.45
46:TF:273:LEU:H	46:TF:292:GLN:HE22	1.65	0.45
46:TF:345:ILE:HG22	45:TG:398:MET:SD	2.57	0.45
45:TG:135:PHE:O	45:TG:166:LYS:HA	2.17	0.45
45:TG:151:SER:O	45:TG:155:GLU:HG2	2.16	0.45
45:TG:152:LEU:HD11	45:TG:156:ARG:HH22	1.82	0.45
45:TG:408:TYR:HA	45:TG:411:GLU:OE2	2.17	0.45
46:TH:91:VAL:HG21	46:TH:116:VAL:HB	1.98	0.45
45:TI:21:TRP:CZ3	45:TI:63:PRO:HB3	2.52	0.45
45:TI:377:MET:SD	45:TI:379:SER:HB3	2.57	0.45
45:TM:362:VAL:HG12	45:TM:370:LYS:HD3	1.99	0.45
46:TN:52:ASN:OD1	46:TN:62:ARG:NH2	2.49	0.45
46:UB:60:VAL:HG23	46:UB:84:LEU:O	2.17	0.45
46:UB:91:VAL:HG21	46:UB:116:VAL:CG1	2.47	0.45
46:UF:46:ARG:HH21	46:UF:241:ARG:C	2.20	0.45
45:UG:430:LYS:O	45:UG:433:GLU:HG3	2.17	0.45
46:UH:11:GLN:O	46:UH:15:GLN:HG2	2.16	0.45
46:UJ:256:ASN:HB3	46:UJ:350:LYS:CE	2.47	0.45
45:UK:2:ARG:NH1	46:UL:70:PRO:HD2	2.24	0.45
46:UL:247:ASN:ND2	45:UM:71:GLU:OE1	2.50	0.45
46:UL:257:LEU:HD11	46:UL:314:SER:HB3	1.98	0.45
45:UM:83:TYR:C	45:UM:84:ARG:HD2	2.37	0.45
45:UM:141:VAL:HG22	45:UM:187:SER:HA	1.99	0.45
46:UN:148:GLY:O	46:UN:151:LEU:HG	2.17	0.45
46:UN:184:ASN:OD1	46:UN:185:ALA:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:90:GLU:CG	45:WA:280:LYS:HZ3	2.29	0.45
45:VA:174:SER:HB3	45:VA:207:GLU:CD	2.36	0.45
46:VB:257:LEU:HD11	46:VB:314:SER:HB2	1.98	0.45
45:VC:210:TYR:CE1	46:VD:324:LYS:HG3	2.52	0.45
45:VC:419:SER:O	45:VC:422:ARG:N	2.50	0.45
45:VG:108:TYR:O	45:VG:112:LYS:NZ	2.31	0.45
45:VG:317:MET:HE1	45:VG:351:PHE:HB3	1.99	0.45
46:VH:268:ILE:HG22	46:VH:368:VAL:HG22	1.99	0.45
46:VJ:3:GLU:OE1	46:VJ:127:CYS:HB2	2.17	0.45
45:VK:377:MET:SD	45:VK:379:SER:HB3	2.57	0.45
46:VL:132:GLY:HA2	46:VL:162:ARG:HB3	1.99	0.45
45:VM:271:SER:HA	45:VM:302:MET:HG2	1.97	0.45
46:VN:20:PHE:O	46:VN:24:ILE:HG12	2.17	0.45
45:WC:52:PHE:HZ	45:WC:239:THR:HG21	1.81	0.45
46:WH:237:THR:HG23	46:WH:241:ARG:HH21	1.82	0.45
45:WI:8:HIS:HB2	45:WI:67:PHE:CD2	2.52	0.45
45:WI:129:CYS:SG	45:WI:130:THR:N	2.89	0.45
45:WI:340:THR:HG23	45:WI:341:ILE:HG13	1.97	0.45
45:WK:36:MET:SD	45:WK:41:THR:HB	2.57	0.45
45:WK:151:SER:O	45:WK:154:LEU:HG	2.17	0.45
14:0V:24:ARG:HD3	45:MM:430:LYS:HZ3	1.81	0.44
7:1G:180:PRO:HG2	46:LD:174:LYS:HE2	1.99	0.44
23:1O:209:LYS:NZ	45:UC:370:LYS:HG3	2.32	0.44
25:1R:312:GLN:NE2	46:CD:360:GLY:HA3	2.32	0.44
14:1V:122:LYS:HZ3	46:LL:390:ARG:HA	1.82	0.44
31:2I:45:LYS:HA	46:GH:332:ASN:OD1	2.17	0.44
31:3I:250:GLN:HE22	45:GI:214:ARG:HH21	1.65	0.44
25:3R:458:ILE:HG12	46:FL:276:ARG:HH12	1.79	0.44
35:4S:81:HIS:O	35:4S:86:LYS:NZ	2.31	0.44
36:5B:68:ASP:HA	37:5F:69:LYS:HZ1	1.80	0.44
36:5C:57:PRO:HB2	46:KJ:390:ARG:NH1	2.33	0.44
37:5H:63:HIS:CD2	46:NN:58:ARG:HB3	2.52	0.44
10:5Q:3:LYS:O	10:5Q:4:ASN:OD1	2.36	0.44
40:6G:252:PHE:C	40:6G:256:LYS:HZ2	2.20	0.44
34:6R:426:PHE:CE2	34:6R:490:PHE:HB3	2.52	0.44
46:AB:2:ARG:HG3	46:AB:240:LEU:HD11	1.98	0.44
45:AC:326:LYS:HE2	46:AF:218:THR:O	2.16	0.44
46:AD:326:VAL:O	46:AD:330:MET:HG2	2.16	0.44
45:AG:3:GLU:OE2	45:AG:130:THR:N	2.49	0.44
45:AI:194:LEU:O	45:AI:198:THR:HG22	2.17	0.44
45:AI:388:PHE:HB2	45:AI:429:GLU:OE1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AK:174:SER:HB2	45:AK:177:VAL:O	2.17	0.44
45:BA:121:ARG:HD2	45:BA:124:LYS:HD2	1.99	0.44
45:BA:254:GLU:O	45:BA:255:PHE:HD2	2.00	0.44
46:BD:226:ASN:ND2	49:BD:501:GDP:HN1	2.03	0.44
46:BD:391:ARG:HA	46:BD:391:ARG:HD2	1.71	0.44
45:BE:71:GLU:OE2	46:BF:2:ARG:NH2	2.50	0.44
45:BE:175:PRO:HG3	45:BE:390:ARG:NH1	2.31	0.44
46:BH:287:PRO:HG3	46:BH:329:GLN:HE22	1.82	0.44
45:BI:80:THR:HA	45:BI:84:ARG:HE	1.82	0.44
45:BK:3:GLU:HG3	45:BK:129:CYS:HB3	1.99	0.44
45:BK:76:ASP:OD2	46:BL:46:ARG:NH2	2.50	0.44
45:BM:10:GLY:O	45:BM:14:ILE:HD12	2.17	0.44
46:BN:102:ALA:HB2	46:BN:403:MET:CE	2.47	0.44
46:CB:350:LYS:HZ2	45:CC:180:ALA:HA	1.82	0.44
45:CC:432:TYR:HA	45:CC:435:VAL:HG12	1.98	0.44
46:CD:221:THR:O	46:CD:225:LEU:HG	2.17	0.44
46:CF:379:LYS:O	46:CF:383:GLU:OE1	2.35	0.44
46:CJ:198:GLU:HG2	46:CJ:266:PHE:HE2	1.82	0.44
45:CK:294:SER:O	45:CK:300:ASN:ND2	2.36	0.44
45:DA:331:SER:O	45:DA:335:ILE:HG12	2.16	0.44
46:DB:209:ASP:O	46:DB:213:ARG:HG3	2.17	0.44
46:DD:105:HIS:HD1	46:DD:106:TYR:HE2	1.65	0.44
46:DD:295:ASP:OD1	46:DD:296:ALA:N	2.50	0.44
46:DD:322:SER:OG	45:DE:222:PRO:O	2.33	0.44
46:DH:20:PHE:HA	46:DH:230:SER:OG	2.17	0.44
45:DI:36:MET:SD	45:DI:37:PRO:HD2	2.57	0.44
45:DI:205:ASP:OD2	45:DI:303:ALA:HA	2.16	0.44
46:DJ:68:LEU:HD12	46:DJ:97:ALA:HB2	1.98	0.44
45:DK:143:GLY:HA3	47:DK:501:GTP:O2B	2.17	0.44
46:EB:201:VAL:HG22	46:EB:266:PHE:O	2.17	0.44
45:EC:60:LYS:HD2	45:FA:283:HIS:HA	1.99	0.44
45:EC:419:SER:O	45:EC:423:GLU:HG2	2.17	0.44
46:ED:153:SER:HA	46:ED:195:ASN:HD22	1.82	0.44
46:EF:200:MET:HE3	46:EF:268:ILE:HG21	1.98	0.44
46:EF:304:ASP:OD1	46:EF:306:ARG:HD3	2.17	0.44
45:EG:260:VAL:HG23	45:EG:265:ILE:O	2.17	0.44
46:EH:121:ARG:NH2	46:EH:158:GLU:OE2	2.43	0.44
46:EH:221:THR:HG23	46:EH:224:ASP:H	1.81	0.44
45:EI:66:VAL:HG11	45:EI:122:ILE:HD11	1.99	0.44
46:EJ:83:GLN:O	46:FJ:281:TYR:OH	2.25	0.44
46:EJ:399:THR:HA	46:EJ:403:MET:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EL:24:ILE:O	46:EL:27:GLU:HG2	2.17	0.44
46:EL:380:ARG:HA	46:EL:383:GLU:OE1	2.16	0.44
45:FA:181:VAL:HG12	46:FB:347:ASN:O	2.16	0.44
46:FF:409:THR:O	46:FF:412:GLU:HG3	2.17	0.44
46:FJ:269:GLY:HA2	46:FJ:300:MET:HE2	1.99	0.44
45:GA:211:ASP:OD2	45:GA:304:LYS:NZ	2.33	0.44
46:GB:326:VAL:O	46:GB:330:MET:HE2	2.17	0.44
45:GC:88:HIS:CE1	45:GC:90:GLU:HB3	2.52	0.44
46:GF:258:ILE:O	46:GF:258:ILE:HG13	2.15	0.44
46:GF:404:ASP:OD1	46:GF:407:GLU:HG2	2.17	0.44
45:GG:179:THR:O	46:GH:350:LYS:HD2	2.16	0.44
46:GH:3:GLU:HA	46:GH:49:VAL:HG23	1.99	0.44
45:GI:222:PRO:HG2	46:GJ:324:LYS:HB2	1.98	0.44
45:GI:268:MET:HG3	45:GI:380:ASN:HB2	1.99	0.44
46:GN:3:GLU:HG3	46:GN:62:ARG:NH1	2.31	0.44
45:HC:194:LEU:O	45:HC:198:THR:HG22	2.18	0.44
45:HC:384:ILE:O	45:HC:387:VAL:HG22	2.17	0.44
45:HE:76:ASP:O	45:HE:80:THR:HG23	2.16	0.44
45:HM:184:PRO:O	45:HM:188:ILE:HG12	2.17	0.44
45:IC:205:ASP:OD1	45:IC:303:ALA:HA	2.17	0.44
45:IC:387:VAL:O	45:IC:391:LEU:HD23	2.17	0.44
46:ID:3:GLU:CD	46:ID:62:ARG:HE	2.21	0.44
46:ID:342:VAL:HG13	46:ID:345:ILE:HG22	1.99	0.44
46:IF:273:LEU:N	46:IF:292:GLN:HE22	2.11	0.44
45:IG:3:GLU:OE2	45:IG:129:CYS:HB3	2.17	0.44
46:IH:154:LYS:O	46:IH:157:GLU:HG3	2.17	0.44
46:IJ:396:HIS:HA	46:IJ:399:THR:HG22	1.98	0.44
46:IL:173:PRO:HG2	46:IL:380:ARG:HD2	1.99	0.44
45:IM:122:ILE:HG21	45:IM:157:LEU:HD11	1.98	0.44
45:IM:169:PHE:HE2	45:IM:235:ILE:HD12	1.83	0.44
46:IN:154:LYS:O	46:IN:157:GLU:HG3	2.17	0.44
46:IN:343:GLU:OE2	46:IN:430:ALA:N	2.41	0.44
46:JB:173:PRO:HD2	46:JB:174:LYS:NZ	2.32	0.44
46:JB:295:ASP:OD2	46:JB:297:LYS:N	2.50	0.44
46:JB:313:ALA:HB1	46:JB:367:PHE:HE1	1.82	0.44
45:JE:285:GLN:OE1	45:JE:285:GLN:N	2.49	0.44
45:JI:175:PRO:HB2	45:JI:176:GLN:OE1	2.17	0.44
45:JI:384:ILE:O	45:JI:387:VAL:HG22	2.17	0.44
45:JM:265:ILE:HG22	45:JM:380:ASN:HD21	1.82	0.44
46:KB:200:MET:HB3	46:KB:268:ILE:HD11	1.99	0.44
46:KD:45:GLU:OE1	46:KD:46:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KD:145:SER:OG	46:KD:188:SER:HB3	2.17	0.44
45:KE:84:ARG:HG3	45:KE:84:ARG:HH11	1.82	0.44
45:KE:269:LEU:HG	45:KE:301:MET:HE3	1.99	0.44
45:KM:169:PHE:HB3	45:KM:204:LEU:HD11	1.97	0.44
46:LB:166:THR:HG21	46:LB:192:LEU:HD11	1.99	0.44
45:LC:89:PRO:CD	45:MC:280:LYS:HE2	2.47	0.44
45:LM:362:VAL:HB	45:LM:370:LYS:HD2	1.99	0.44
45:MA:169:PHE:HB3	45:MA:204:LEU:HD11	1.99	0.44
46:MB:3:GLU:HG3	46:MB:62:ARG:NH1	2.32	0.44
46:MB:116:VAL:HA	46:MB:119:VAL:HG22	1.98	0.44
46:MD:252:LYS:HE2	46:MD:350:LYS:NZ	2.32	0.44
45:ME:278:ALA:HA	45:ME:281:ALA:HB2	1.98	0.44
45:MI:345:ASP:OD1	45:MI:346:TRP:N	2.50	0.44
46:MJ:63:ALA:O	46:MJ:89:ASN:ND2	2.49	0.44
45:MK:422:ARG:NH1	45:MK:426:ALA:HB2	2.32	0.44
47:MM:501:GTP:PG	46:MN:252:LYS:HZ1	2.37	0.44
46:MN:313:ALA:HB1	46:MN:367:PHE:HE1	1.82	0.44
45:NA:8:HIS:CD2	45:NA:17:GLY:HA3	2.53	0.44
45:NA:88:HIS:HD2	45:OA:283:HIS:HB3	1.81	0.44
45:NA:91:GLN:HE21	45:NA:121:ARG:NH2	2.15	0.44
46:NB:31:ASP:HB2	46:NB:32:PRO:HD2	1.99	0.44
46:NB:113:ILE:HG12	46:NB:117:LEU:CD2	2.46	0.44
46:ND:66:MET:HA	46:ND:91:VAL:O	2.17	0.44
46:ND:130:LEU:HD11	46:ND:133:PHE:CE1	2.51	0.44
46:NF:36:TYR:CZ	46:NF:44:LEU:HD11	2.52	0.44
45:NI:88:HIS:CD2	45:OI:283:HIS:HB3	2.52	0.44
46:NJ:316:LEU:HD13	46:NJ:352:SER:OG	2.17	0.44
46:NL:345:ILE:HG13	46:NL:348:ASN:HB3	1.99	0.44
45:OA:11:GLN:CG	45:OA:15:GLN:HE22	2.30	0.44
45:OC:414:GLU:N	45:OC:417:GLU:OE2	2.50	0.44
45:OI:224:TYR:HD2	47:OI:501:GTP:C6	2.36	0.44
45:OI:371:VAL:HG12	45:OI:373:ARG:H	1.82	0.44
45:OK:183:GLU:N	45:OK:184:PRO:HD2	2.32	0.44
46:ON:131:GLN:HA	46:ON:162:ARG:NH2	2.32	0.44
46:ON:315:ALA:HB1	46:ON:317:PHE:CE1	2.52	0.44
46:PF:232:ALA:HB1	46:PF:268:ILE:HD12	1.99	0.44
46:PF:282:ARG:HD2	46:PF:283:ALA:N	2.32	0.44
46:PH:154:LYS:HA	46:PH:157:GLU:OE1	2.17	0.44
45:PK:21:TRP:CZ2	45:PK:65:ALA:HB2	2.52	0.44
45:PK:229:ARG:NH1	45:PK:363:VAL:HG11	2.32	0.44
46:PN:309:ARG:N	46:PN:372:THR:HG1	2.12	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QD:409:THR:O	46:QD:412:GLU:HG3	2.17	0.44
46:QF:238:CYS:SG	46:QF:239:CYS:N	2.90	0.44
46:QF:282:ARG:HH22	46:QF:292:GLN:NE2	2.14	0.44
45:QG:319:TYR:CE2	45:QG:328:VAL:HG22	2.52	0.44
45:QG:352:LYS:NZ	46:QH:179:VAL:H	2.01	0.44
45:QI:135:PHE:HB2	45:QI:166:LYS:HG2	1.99	0.44
45:QI:227:LEU:O	45:QI:231:ILE:HG12	2.17	0.44
46:QJ:259:PRO:HA	45:QK:404:PHE:CD2	2.51	0.44
46:QJ:347:ASN:OD1	45:QK:178:SER:OG	2.22	0.44
46:QL:322:SER:H	45:QM:221:ARG:NH2	2.14	0.44
46:QL:324:LYS:HE3	45:QM:222:PRO:HD2	2.00	0.44
46:QN:309:ARG:NH2	46:QN:426:GLN:O	2.38	0.44
46:QN:312:THR:HG22	46:QN:370:ASN:HB3	1.98	0.44
46:RB:252:LYS:HA	45:RC:100:ALA:HB1	2.00	0.44
45:RC:359:PRO:HB2	45:RC:370:LYS:HZ2	1.81	0.44
45:RE:91:GLN:HB2	45:RE:121:ARG:NH2	2.33	0.44
46:RH:4:ILE:HG13	46:RH:132:GLY:O	2.17	0.44
46:RH:290:THR:HG21	46:RH:329:GLN:HG2	1.98	0.44
45:RI:10:GLY:O	45:RI:14:ILE:HG12	2.17	0.44
46:RJ:190:HIS:CE1	46:RJ:414:ASN:HD22	2.34	0.44
46:RL:99:ASN:ND2	46:RL:178:THR:HG21	2.32	0.44
46:RL:101:TRP:HB2	46:RL:184:ASN:HB3	1.99	0.44
46:RL:262:ARG:HG3	46:RL:263:LEU:HD12	1.99	0.44
45:SA:20:CYS:HA	45:SA:232:ALA:HB1	1.99	0.44
45:SC:135:PHE:HB2	45:SC:166:LYS:HG2	1.99	0.44
45:SC:328:VAL:HG11	45:SC:353:VAL:HG11	1.99	0.44
46:SD:86:ARG:CZ	46:TD:281:TYR:HB3	2.47	0.44
46:SF:345:ILE:HG13	45:SG:398:MET:HE1	1.99	0.44
45:SG:127:ASP:OD1	45:SG:128:ASN:N	2.50	0.44
45:SG:212:ILE:HD11	45:SG:300:ASN:HA	1.99	0.44
45:SK:98:ASP:CG	45:SK:100:ALA:H	2.20	0.44
46:TD:113:ILE:HG21	46:TD:150:LEU:HD22	2.00	0.44
46:TJ:347:ASN:ND2	45:TK:176:GLN:O	2.43	0.44
46:TL:68:LEU:HB2	46:TL:147:MET:HE3	1.99	0.44
46:TN:105:HIS:CE1	46:TN:150:LEU:HD12	2.52	0.44
46:UB:297:LYS:HD3	46:UB:297:LYS:O	2.16	0.44
45:UC:336:LYS:HE2	45:UC:351:PHE:HE1	1.81	0.44
45:UE:242:LEU:HD11	45:UE:252:ILE:HG23	1.99	0.44
46:UF:173:PRO:HD3	46:UF:380:ARG:NH1	2.32	0.44
46:UF:375:GLN:HG3	46:UF:379:LYS:NZ	2.31	0.44
45:UG:21:TRP:CZ2	45:UG:65:ALA:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UL:86:ARG:HE	46:UL:86:ARG:HA	1.82	0.44
46:UN:139:LEU:HD13	46:UN:168:SER:HB3	1.98	0.44
45:VA:2:ARG:HH12	46:VD:70:PRO:HG2	1.82	0.44
45:VA:140:SER:OG	47:VA:501:GTP:O2B	2.34	0.44
45:VA:141:VAL:HG11	45:VA:172:TYR:HA	1.99	0.44
45:VA:209:ILE:HA	45:VA:212:ILE:HG22	1.98	0.44
45:VA:332:ILE:HD12	45:VA:351:PHE:CE2	2.51	0.44
45:VA:404:PHE:CE1	46:VB:259:PRO:HA	2.52	0.44
46:VB:314:SER:HB3	46:VB:368:VAL:HG13	1.98	0.44
46:VD:189:VAL:HA	46:VD:192:LEU:HB2	1.99	0.44
46:VF:215:LEU:HB3	46:VF:217:LEU:HD23	1.98	0.44
45:VG:254:GLU:O	45:VG:255:PHE:HD1	2.00	0.44
45:VG:335:ILE:O	45:VG:338:LYS:HB3	2.17	0.44
45:VI:393:HIS:O	45:VI:397:LEU:HD23	2.16	0.44
46:VL:190:HIS:CD2	46:VL:411:ALA:HA	2.52	0.44
46:VN:205:GLU:HA	46:VN:208:TYR:CD1	2.51	0.44
45:WC:50:ASN:OD1	45:WC:51:THR:N	2.50	0.44
46:WD:31:ASP:OD1	46:WD:35:THR:N	2.34	0.44
45:WE:80:THR:O	45:WE:84:ARG:NH2	2.51	0.44
46:WF:233:MET:O	46:WF:236:VAL:HG12	2.18	0.44
45:WG:241:SER:OG	45:WG:250:VAL:O	2.23	0.44
46:WJ:210:ILE:HD11	46:WJ:299:MET:O	2.17	0.44
45:CE:8:HIS:HB2	45:CE:67:PHE:CD1	2.52	0.44
45:CE:152:LEU:O	45:CE:155:GLU:HG3	2.17	0.44
45:DC:426:ALA:HB1	45:DC:430:LYS:HZ1	1.81	0.44
1:0A:33:GLN:C	46:MB:320:ARG:HH22	2.21	0.44
1:0A:46:LYS:HE2	34:7R:67:TYR:CD2	2.52	0.44
9:0N:159:PRO:HD2	46:KN:227:HIS:ND1	2.32	0.44
16:1B:63:GLN:H	45:LC:84:ARG:NH2	2.15	0.44
3:1C:80:ARG:HH12	46:EL:359:LYS:HA	1.81	0.44
17:1F:56:LYS:NZ	46:GL:44:LEU:HB3	2.33	0.44
31:2I:90:TYR:HE1	45:GE:214:ARG:HG3	1.82	0.44
23:2O:185:ARG:NH2	46:VL:279:GLN:HE22	2.16	0.44
23:2O:288:LYS:HZ3	46:VH:359:LYS:HE2	1.81	0.44
15:2X:8:TYR:HB2	45:MI:357:TYR:CD1	2.52	0.44
35:4S:64:LEU:HA	35:4S:67:LYS:HG2	1.98	0.44
35:4S:83:ALA:HB1	46:WD:111:GLU:OE1	2.16	0.44
35:4S:102:LEU:HD23	35:4S:127:LEU:HD13	1.98	0.44
36:5A:72:LYS:HD3	36:5A:73:SER:O	2.18	0.44
36:5B:35:PHE:HB3	36:5B:46:ILE:HD13	1.99	0.44
37:5E:157:ARG:HH12	46:ND:37:HIS:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5H:22:LYS:NZ	37:5H:30:PRO:HD2	2.32	0.44
40:6G:163:LYS:HE3	46:VH:306:ARG:HH22	1.81	0.44
40:6G:285:MET:N	40:6G:285:MET:SD	2.91	0.44
41:6H:305:PHE:O	41:6H:306:LYS:HD2	2.17	0.44
10:6Q:20:LYS:NZ	10:6Q:22:LEU:HG	2.31	0.44
34:7R:143:VAL:HG23	46:AD:78:ALA:HB2	1.98	0.44
46:AF:28:HIS:C	46:AF:43:GLN:HE21	2.20	0.44
46:AH:215:LEU:HB3	46:AH:217:LEU:HD23	2.00	0.44
46:AH:268:ILE:HG22	46:AH:368:VAL:HG22	1.99	0.44
45:AK:150:GLY:O	45:AK:154:LEU:HD23	2.17	0.44
46:AL:122:LYS:HE2	46:AL:122:LYS:HB2	1.72	0.44
46:AL:238:CYS:SG	46:AL:318:ARG:HD2	2.57	0.44
46:BD:185:ALA:O	46:BD:189:VAL:HG23	2.17	0.44
46:BD:386:THR:O	46:BD:390:ARG:HG2	2.16	0.44
46:BF:6:HIS:HD2	46:BF:7:ILE:N	2.14	0.44
45:BG:200:VAL:HG13	45:BG:268:MET:CE	2.47	0.44
46:BL:201:VAL:HG23	46:BL:301:CYS:SG	2.57	0.44
45:CA:308:ARG:NH1	45:CA:342:GLN:OE1	2.50	0.44
46:CB:346:PRO:HG2	45:CC:394:LYS:NZ	2.32	0.44
45:CC:360:PRO:HG3	45:CC:374:ALA:HB2	1.99	0.44
46:CF:70:PRO:O	46:CF:74:ASP:CB	2.65	0.44
46:CH:117:LEU:HA	46:CH:120:VAL:HG22	1.99	0.44
45:CI:141:VAL:HG12	45:CI:171:ILE:O	2.17	0.44
46:CJ:289:LEU:HD13	46:CJ:365:VAL:HG23	1.98	0.44
45:DG:188:ILE:HD11	45:DG:391:LEU:HG	1.99	0.44
45:DG:208:ALA:O	45:DG:212:ILE:HG12	2.17	0.44
45:DG:297:GLU:OE2	45:DG:300:ASN:HB2	2.18	0.44
45:DI:69:ASP:OD2	45:DI:70:LEU:N	2.51	0.44
45:DI:111:GLY:O	45:DI:115:VAL:HG13	2.16	0.44
45:DK:286:LEU:O	45:DK:373:ARG:NH2	2.50	0.44
46:DL:48:ASN:O	46:DL:62:ARG:NH1	2.50	0.44
45:EA:141:VAL:HG11	45:EA:172:TYR:CD1	2.52	0.44
46:EB:64:ILE:HD11	46:EB:123:GLU:HG3	1.99	0.44
46:EB:324:LYS:HA	46:EB:327:ASP:OD1	2.17	0.44
45:EC:88:HIS:HB3	45:EC:91:GLN:HB2	1.98	0.44
45:EC:352:LYS:HA	46:ED:177:ASP:O	2.17	0.44
46:ED:67:ASP:OD1	46:ED:68:LEU:N	2.48	0.44
46:EF:175:VAL:HG22	46:EF:205:GLU:OE2	2.16	0.44
46:EF:334:GLN:HA	46:EF:341:PHE:CE2	2.52	0.44
46:EH:116:VAL:O	46:EH:120:VAL:HG23	2.18	0.44
46:EJ:68:LEU:HD13	46:EJ:143:THR:OG1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EK:238:LEU:HD11	45:EK:255:PHE:HE1	1.82	0.44
45:FA:156:ARG:HG3	45:FA:160:ASP:OD2	2.18	0.44
46:FD:44:LEU:HD23	46:FD:44:LEU:HA	1.84	0.44
46:FF:100:ASN:ND2	46:FF:103:LYS:HG3	2.32	0.44
45:FG:205:ASP:OD1	45:FG:303:ALA:HA	2.17	0.44
46:FH:21:TRP:CZ3	46:FH:61:PRO:HB3	2.52	0.44
46:FH:66:MET:HG2	46:FH:116:VAL:HG21	1.99	0.44
46:FJ:190:HIS:CE1	46:FJ:414:ASN:HD22	2.35	0.44
45:FK:31:GLN:HB2	45:FK:35:GLN:O	2.17	0.44
45:FK:101:ASN:HA	45:FK:144:GLY:H	1.82	0.44
45:FK:326:LYS:HD3	46:FN:208:TYR:CD1	2.53	0.44
46:FN:113:ILE:HB	46:FN:154:LYS:HZ3	1.82	0.44
45:GA:107:HIS:ND1	45:GA:107:HIS:O	2.50	0.44
45:GA:336:LYS:HD3	45:GA:351:PHE:HE1	1.82	0.44
46:GD:308:GLY:HA2	46:GD:426:GLN:NE2	2.32	0.44
45:GE:296:PHE:HE1	45:GE:315:CYS:HG	1.61	0.44
46:GH:232:ALA:HB1	46:GH:268:ILE:HD12	1.98	0.44
45:GI:147:SER:HB2	45:GI:190:SER:HB3	1.98	0.44
45:GI:258:ASN:HD22	45:GI:352:LYS:HB2	1.81	0.44
46:GL:226:ASN:ND2	49:GL:502:GDP:HN1	2.14	0.44
45:GM:100:ALA:HB1	46:GN:252:LYS:HA	2.00	0.44
45:HA:56:THR:HG21	45:HA:60:LYS:HG2	1.99	0.44
45:HA:74:VAL:O	45:HA:77:GLU:HG3	2.17	0.44
45:HC:322:ASP:OD2	45:HC:373:ARG:NH1	2.50	0.44
46:HD:20:PHE:HZ	46:HD:50:TYR:CE1	2.36	0.44
45:HG:194:LEU:O	45:HG:198:THR:HG22	2.17	0.44
45:HG:257:THR:HG22	46:HJ:397:TRP:HH2	1.82	0.44
45:HI:298:PRO:HG3	45:HI:308:ARG:NH2	2.31	0.44
46:HL:190:HIS:NE2	46:HL:410:GLU:OE2	2.51	0.44
45:IC:227:LEU:O	45:IC:231:ILE:HG12	2.17	0.44
45:IE:387:VAL:O	45:IE:390:ARG:HG2	2.17	0.44
45:IG:91:GLN:HB3	45:IG:121:ARG:NH2	2.31	0.44
46:IH:228:LEU:HD12	46:IH:229:VAL:N	2.32	0.44
45:II:331:SER:O	45:II:335:ILE:HG12	2.17	0.44
45:II:336:LYS:HE3	45:II:351:PHE:HE1	1.82	0.44
46:IJ:3:GLU:HG3	46:IJ:62:ARG:NH1	2.32	0.44
46:IJ:217:LEU:HG	46:IJ:220:PRO:HD3	1.98	0.44
45:IM:414:GLU:CD	45:IM:416:GLY:H	2.21	0.44
46:IN:5:VAL:HG23	46:IN:7:ILE:HD11	1.99	0.44
45:JA:211:ASP:O	45:JA:215:ARG:HG2	2.17	0.44
45:JA:390:ARG:HG3	45:JA:391:LEU:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JB:3:GLU:HG3	46:JB:62:ARG:NH1	2.33	0.44
45:JE:419:SER:O	45:JE:422:ARG:N	2.50	0.44
45:JG:68:LEU:HD11	45:JG:118:CYS:SG	2.57	0.44
46:JJ:10:GLY:O	46:JJ:14:ASN:ND2	2.50	0.44
45:JM:102:ASN:ND2	45:JM:105:ARG:HG3	2.32	0.44
45:KA:66:VAL:HG11	45:KA:122:ILE:HD11	1.99	0.44
46:KB:201:VAL:HG23	46:KB:301:CYS:SG	2.57	0.44
45:KC:9:VAL:HG13	45:KC:139:ASN:HB3	1.99	0.44
45:KE:68:LEU:HD11	45:KE:118:CYS:SG	2.57	0.44
46:KH:164:MET:O	46:KH:197:ASP:HB2	2.18	0.44
46:KJ:67:ASP:O	46:KJ:92:PHE:HA	2.18	0.44
46:KJ:276:ARG:HD3	46:KJ:276:ARG:O	2.17	0.44
45:KK:174:SER:HB3	45:KK:177:VAL:O	2.17	0.44
45:KK:308:ARG:HB3	45:NK:282:TYR:CZ	2.52	0.44
45:KK:346:TRP:O	46:KN:388:MET:HG2	2.18	0.44
45:KM:49:PHE:HD2	45:KM:53:PHE:HB2	1.82	0.44
45:KM:88:HIS:HD2	45:KM:91:GLN:HB3	1.82	0.44
46:KN:342:VAL:HG13	46:KN:345:ILE:HG22	1.99	0.44
45:LC:19:ALA:HA	45:LC:22:GLU:HG2	2.00	0.44
46:LD:286:VAL:N	46:LD:287:PRO:HD2	2.33	0.44
45:LE:66:VAL:HG11	45:LE:122:ILE:HD11	1.99	0.44
46:LF:309:ARG:H	46:LF:372:THR:HG22	1.82	0.44
45:LG:222:PRO:O	46:LH:322:SER:HB2	2.18	0.44
45:LG:230:LEU:O	45:LG:234:VAL:HG23	2.18	0.44
45:LI:256:GLN:HB2	46:LL:397:TRP:CZ2	2.53	0.44
46:LJ:107:THR:HG23	46:LJ:108:GLU:OE1	2.17	0.44
45:MC:339:ARG:O	45:MC:339:ARG:HD3	2.17	0.44
46:MD:192:LEU:HD21	46:MD:199:CYS:HB2	1.99	0.44
46:MF:68:LEU:HD13	46:MF:143:THR:OG1	2.17	0.44
46:MH:104:GLY:O	46:MH:147:MET:HB2	2.17	0.44
45:MI:384:ILE:O	45:MI:387:VAL:HG22	2.17	0.44
45:MK:387:VAL:HA	45:MK:390:ARG:HG2	1.99	0.44
45:MK:422:ARG:HH12	45:MK:426:ALA:HB2	1.81	0.44
46:ML:132:GLY:HA3	46:ML:163:ILE:HG22	1.98	0.44
46:MN:330:MET:HA	46:MN:333:VAL:HG12	1.99	0.44
45:NA:9:VAL:HG13	45:NA:139:ASN:HB3	1.99	0.44
46:ND:200:MET:HB3	46:ND:266:PHE:HB2	1.98	0.44
46:NH:21:TRP:CZ3	46:NH:61:PRO:HB3	2.52	0.44
46:NJ:113:ILE:HD13	46:NJ:150:LEU:HD22	1.98	0.44
46:NL:6:HIS:O	46:NL:63:ALA:HA	2.17	0.44
45:NM:229:ARG:HH22	45:NM:367:ASP:H	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NN:20:PHE:HZ	46:NN:50:TYR:HE1	1.65	0.44
46:NN:328:GLU:OE1	46:NN:329:GLN:HG2	2.17	0.44
46:OB:67:ASP:O	46:OB:92:PHE:HA	2.16	0.44
46:OD:60:VAL:HG21	46:OD:86:ARG:HG3	1.99	0.44
46:OF:39:ASP:H	46:OF:43:GLN:HE22	1.66	0.44
46:OF:230:SER:HA	46:OF:233:MET:HG2	2.00	0.44
46:OH:66:MET:HA	46:OH:91:VAL:O	2.16	0.44
46:OH:344:TRP:CE3	46:OH:345:ILE:HG23	2.52	0.44
46:OL:87:PRO:HA	46:OL:90:PHE:HD2	1.82	0.44
46:ON:116:VAL:HA	46:ON:119:VAL:HG12	1.99	0.44
45:PA:3:GLU:HB2	45:PA:129:CYS:SG	2.57	0.44
45:PA:181:VAL:HG22	46:PB:350:LYS:HZ3	1.82	0.44
45:PA:267:PHE:CD2	45:PA:388:PHE:HZ	2.35	0.44
45:PC:174:SER:HB2	45:PC:177:VAL:O	2.17	0.44
46:PD:156:ARG:NH2	46:PD:160:PRO:O	2.50	0.44
46:PD:259:PRO:HG2	46:PD:311:LEU:HD21	2.00	0.44
45:PG:280:LYS:O	45:PG:280:LYS:HD2	2.17	0.44
45:PG:330:ALA:O	45:PG:334:THR:HG23	2.16	0.44
46:PJ:133:PHE:CD1	46:PJ:155:VAL:HG11	2.52	0.44
46:PL:233:MET:O	46:PL:236:VAL:HG12	2.17	0.44
45:PM:154:LEU:HD21	45:PM:194:LEU:HD22	1.99	0.44
46:PN:67:ASP:O	46:PN:92:PHE:HA	2.17	0.44
46:PN:222:TYR:HD2	49:PN:502:GDP:C6	2.35	0.44
46:QB:66:MET:HE2	46:QB:147:MET:HG2	1.97	0.44
46:QF:288:GLU:O	46:QF:291:GLN:HG3	2.16	0.44
45:QG:324:VAL:HG11	45:QG:326:LYS:CE	2.47	0.44
45:QG:345:ASP:N	45:QG:345:ASP:OD2	2.49	0.44
46:QJ:391:ARG:HA	46:QJ:391:ARG:HD2	1.79	0.44
46:RD:238:CYS:SG	46:RD:318:ARG:NH1	2.90	0.44
45:RE:98:ASP:OD1	45:RE:99:ALA:N	2.50	0.44
45:RG:167:LEU:HD13	45:RG:200:VAL:HB	1.98	0.44
45:RG:419:SER:O	45:RG:422:ARG:N	2.50	0.44
46:RH:274:THR:HB	46:RH:282:ARG:HH21	1.82	0.44
46:RJ:317:PHE:HB2	46:RJ:353:ILE:HD13	1.99	0.44
46:RN:260:PHE:HB2	46:RN:263:LEU:HD13	1.99	0.44
46:SB:257:LEU:HB3	46:SB:266:PHE:HE1	1.82	0.44
46:SB:282:ARG:NH1	46:SB:288:GLU:OE1	2.50	0.44
46:SD:406:MET:O	46:SD:409:THR:N	2.49	0.44
45:SE:19:ALA:O	45:SE:22:GLU:HG2	2.18	0.44
45:SE:268:MET:HE2	45:SE:380:ASN:HB2	1.99	0.44
46:SF:49:VAL:HG21	46:SF:241:ARG:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SI:68:LEU:HD13	45:SI:93:ILE:HB	1.99	0.44
45:SI:171:ILE:HG23	45:SI:204:LEU:O	2.18	0.44
45:SK:64:ARG:NH1	45:SK:129:CYS:SG	2.90	0.44
46:SL:268:ILE:HG22	46:SL:368:VAL:HG22	1.98	0.44
46:SN:97:ALA:HB3	46:SN:143:THR:HB	2.00	0.44
46:TB:86:ARG:HA	46:UB:281:TYR:CE1	2.52	0.44
45:TC:372:MET:N	45:TC:372:MET:SD	2.91	0.44
46:TD:128:ASP:OD1	46:TD:129:CYS:N	2.47	0.44
46:TD:350:LYS:HA	45:TE:179:THR:O	2.16	0.44
46:TF:370:ASN:OD1	46:TF:422:TYR:OH	2.33	0.44
46:TH:164:MET:O	46:TH:197:ASP:HB2	2.17	0.44
46:TJ:257:LEU:HB3	46:TJ:266:PHE:CZ	2.52	0.44
45:UA:401:LYS:HE3	45:UA:401:LYS:HB2	1.74	0.44
45:UC:31:GLN:HB3	45:UC:32:PRO:HD2	1.98	0.44
46:UF:4:ILE:HB	46:UF:50:TYR:HE2	1.82	0.44
46:UF:105:HIS:CD2	46:UF:150:LEU:HB2	2.52	0.44
46:UF:403:MET:HE3	46:UF:404:ASP:H	1.82	0.44
46:UH:118:ASP:HA	46:UH:121:ARG:NH1	2.32	0.44
46:UH:192:LEU:O	46:UH:196:ALA:CB	2.65	0.44
46:UH:317:PHE:HD2	46:UH:363:MET:HE2	1.81	0.44
46:UJ:255:VAL:HG11	45:UK:100:ALA:O	2.17	0.44
46:UJ:350:LYS:NZ	45:UK:181:VAL:HG22	2.32	0.44
46:UL:398:TYR:O	46:UL:403:MET:HB2	2.17	0.44
45:VA:105:ARG:NH1	46:VB:251:ARG:HD3	2.32	0.44
45:VG:229:ARG:HH12	45:VG:363:VAL:HG21	1.83	0.44
45:VG:301:MET:HE2	45:VG:307:PRO:HD3	1.98	0.44
45:VG:332:ILE:HD11	45:VG:351:PHE:CG	2.52	0.44
45:VI:98:ASP:OD1	45:VI:99:ALA:N	2.50	0.44
46:VJ:3:GLU:HA	46:VJ:49:VAL:HG23	1.99	0.44
46:VJ:21:TRP:CZ2	46:VJ:63:ALA:HB2	2.53	0.44
46:VJ:73:MET:HE3	46:VJ:92:PHE:HB3	2.00	0.44
45:VK:262:TYR:OH	46:VN:391:ARG:HG2	2.17	0.44
45:WE:3:GLU:O	45:WE:133:GLN:N	2.40	0.44
45:WG:98:ASP:OD1	45:WG:99:ALA:N	2.50	0.44
45:WI:151:SER:O	45:WI:155:GLU:OE1	2.34	0.44
45:WI:430:LYS:O	45:WI:433:GLU:HG3	2.16	0.44
45:WK:178:SER:OG	46:WL:347:ASN:ND2	2.35	0.44
1:0A:136:ASN:HA	46:AB:320:ARG:HH12	1.81	0.44
4:0D:94:ASN:OD1	45:EC:364:PRO:HB3	2.17	0.44
17:1F:167:HIS:H	45:GK:96:LYS:HG3	1.81	0.44
19:1J:111:TYR:HB3	46:HF:53:GLU:CD	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1P:337:GLN:CD	45:TC:29:GLY:HA2	2.38	0.44
4:2D:44:TYR:CE1	46:DJ:48:ASN:HB3	2.52	0.44
5:2E:53:LYS:HE2	34:5R:382:TYR:CE1	2.51	0.44
31:3I:254:ARG:HH12	45:FI:79:ARG:HH21	1.65	0.44
25:3R:152:LEU:HA	46:AN:78:ALA:O	2.16	0.44
35:4S:209:ARG:CZ	46:WD:115:SER:HA	2.47	0.44
37:5G:173:LYS:HZ3	46:KL:262:ARG:HG2	1.82	0.44
40:6G:270:THR:HG23	45:VA:298:PRO:HG3	1.98	0.44
34:6R:249:LEU:HA	45:CM:370:LYS:NZ	2.33	0.44
34:6R:440:ARG:HD2	34:6R:440:ARG:HA	1.69	0.44
34:6R:581:THR:OG1	34:6R:584:GLU:OE1	2.23	0.44
34:7R:318:TYR:HB3	34:7R:321:MET:HG2	2.00	0.44
34:7R:440:ARG:NH2	34:7R:442:PHE:HZ	2.16	0.44
45:AA:183:GLU:N	45:AA:184:PRO:HD2	2.32	0.44
45:AA:195:LEU:HD21	45:AA:264:ARG:HD2	1.99	0.44
46:AB:391:ARG:HA	46:AB:391:ARG:HD2	1.77	0.44
46:AD:77:ARG:HB3	46:AD:77:ARG:NH1	2.33	0.44
46:AF:121:ARG:O	46:AF:125:GLU:HG3	2.18	0.44
45:AG:98:ASP:OD1	45:AG:99:ALA:N	2.51	0.44
46:AH:3:GLU:OE2	46:AH:127:CYS:HB2	2.17	0.44
46:AJ:238:CYS:SG	46:AJ:239:CYS:N	2.90	0.44
45:AK:237:SER:HA	45:AK:320:ARG:HH11	1.82	0.44
46:AL:233:MET:O	46:AL:236:VAL:HG12	2.17	0.44
46:AL:403:MET:HE3	46:AL:408:PHE:CZ	2.53	0.44
45:AM:336:LYS:HE3	45:AM:336:LYS:HB2	1.74	0.44
46:AN:208:TYR:CE2	46:AN:225:LEU:HD21	2.53	0.44
45:BA:210:TYR:CE1	45:BA:227:LEU:HD11	2.51	0.44
45:BA:264:ARG:NH1	45:BA:431:ASP:OD2	2.50	0.44
46:BD:178:THR:HG22	46:BD:179:VAL:H	1.83	0.44
45:BE:226:ASN:ND2	45:BE:367:ASP:OD2	2.50	0.44
45:BE:384:ILE:O	45:BE:387:VAL:HG22	2.17	0.44
46:BF:325:GLU:HA	46:BF:328:GLU:HG3	1.99	0.44
45:BG:425:LEU:HD23	45:BG:425:LEU:HA	1.78	0.44
45:BK:88:HIS:CE1	45:BK:90:GLU:HG3	2.52	0.44
45:BK:215:ARG:NE	45:BK:216:ASN:OD1	2.36	0.44
45:BM:19:ALA:HA	45:BM:22:GLU:OE1	2.17	0.44
45:BM:272:TYR:HD2	45:BM:275:ILE:HD11	1.82	0.44
46:BN:317:PHE:HB2	46:BN:353:ILE:HD13	1.98	0.44
46:CB:15:GLN:OE1	46:CB:226:ASN:ND2	2.50	0.44
45:CC:152:LEU:O	45:CC:155:GLU:HG3	2.18	0.44
45:CK:183:GLU:N	45:CK:184:PRO:HD2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CM:21:TRP:CZ2	45:CM:65:ALA:HB2	2.52	0.44
46:CN:178:THR:HB	46:CN:181:GLU:HG3	1.98	0.44
46:DB:173:PRO:HG2	46:DB:380:ARG:HD3	2.00	0.44
46:DB:260:PHE:HB2	46:DB:263:LEU:HD13	1.99	0.44
45:DG:185:TYR:HD2	45:DG:408:TYR:CE1	2.35	0.44
45:DG:211:ASP:HA	45:DG:214:ARG:NH1	2.32	0.44
46:DL:138:SER:HA	46:DL:169:VAL:HG22	2.00	0.44
45:DM:241:SER:OG	45:DM:250:VAL:O	2.28	0.44
45:EA:324:VAL:O	45:EA:328:VAL:HG23	2.17	0.44
46:EB:207:LEU:HB3	46:EB:225:LEU:HD22	1.99	0.44
46:ED:100:ASN:HB3	46:ED:103:LYS:HB2	1.98	0.44
45:EE:22:GLU:HG3	45:EE:23:LEU:N	2.33	0.44
45:EE:216:ASN:HB3	45:EE:275:ILE:O	2.18	0.44
46:EF:116:VAL:HA	46:EF:119:VAL:HG12	1.99	0.44
46:EF:282:ARG:HE	46:EF:283:ALA:N	2.12	0.44
46:EJ:138:SER:HA	46:EJ:169:VAL:HB	1.99	0.44
46:EL:110:ALA:O	46:EL:113:ILE:HG22	2.17	0.44
45:FA:117:LEU:O	45:FA:121:ARG:HG2	2.16	0.44
45:FC:318:MET:O	45:FC:375:VAL:HA	2.18	0.44
46:FD:5:VAL:HG11	46:FD:123:GLU:HG3	1.99	0.44
46:FD:66:MET:HA	46:FD:91:VAL:O	2.16	0.44
45:FE:137:VAL:HG23	45:FE:168:GLY:HA2	2.00	0.44
46:FF:173:PRO:HD2	46:FF:174:LYS:NZ	2.32	0.44
45:FG:209:ILE:HD12	45:FG:227:LEU:HB3	1.99	0.44
46:FH:201:VAL:HG23	46:FH:301:CYS:SG	2.58	0.44
46:FJ:66:MET:HE1	46:FJ:116:VAL:HG21	2.00	0.44
45:FK:171:ILE:HA	45:FK:204:LEU:HB2	1.98	0.44
46:FL:397:TRP:N	46:FL:397:TRP:CD1	2.85	0.44
45:GA:73:THR:OG1	46:GB:2:ARG:NH2	2.50	0.44
45:GA:349:THR:HG21	46:GD:176:SER:HB2	2.00	0.44
45:GE:55:GLU:HG3	45:GE:57:GLY:H	1.82	0.44
46:GF:116:VAL:HA	46:GF:119:VAL:HG12	1.99	0.44
45:GG:200:VAL:HG13	45:GG:268:MET:CE	2.48	0.44
45:HA:104:ALA:HB2	45:HA:413:MET:CE	2.47	0.44
46:HB:49:VAL:C	46:HB:62:ARG:HH21	2.19	0.44
46:HB:238:CYS:SG	46:HB:239:CYS:N	2.90	0.44
45:HC:387:VAL:HA	45:HC:390:ARG:HG2	1.99	0.44
46:HD:184:ASN:OD1	46:HD:185:ALA:N	2.50	0.44
46:HD:221:THR:HG23	46:HD:224:ASP:H	1.82	0.44
45:HE:21:TRP:CZ2	45:HE:65:ALA:HB2	2.51	0.44
46:HF:304:ASP:OD2	46:HF:306:ARG:HG3	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HI:115:VAL:O	45:HI:119:LEU:HD23	2.18	0.44
46:HL:121:ARG:HG3	46:HL:121:ARG:HH11	1.81	0.44
45:IC:5:ILE:HB	45:IC:135:PHE:CD1	2.52	0.44
45:IC:313:MET:HB2	45:IC:380:ASN:O	2.17	0.44
46:IH:45:GLU:O	46:IH:46:ARG:HD3	2.18	0.44
45:II:250:VAL:HA	45:II:254:GLU:OE2	2.17	0.44
45:II:414:GLU:CD	45:II:416:GLY:H	2.20	0.44
46:IJ:64:ILE:HD11	46:IJ:123:GLU:HG3	1.98	0.44
46:IL:178:THR:HG22	46:IL:180:VAL:H	1.82	0.44
46:IL:314:SER:OG	46:IL:350:LYS:HB3	2.17	0.44
46:IN:293:MET:HG3	46:IN:294:PHE:HD2	1.82	0.44
45:JA:183:GLU:N	45:JA:184:PRO:HD2	2.32	0.44
46:JB:116:VAL:HA	46:JB:119:VAL:HG22	1.99	0.44
45:JC:107:HIS:ND1	45:JC:107:HIS:O	2.51	0.44
45:JC:340:THR:HG23	45:JC:341:ILE:HG23	1.99	0.44
45:JE:209:ILE:HD11	45:JE:302:MET:HG3	1.99	0.44
45:JE:265:ILE:HG23	45:JE:432:TYR:CZ	2.53	0.44
45:JI:79:ARG:NH2	45:JI:92:LEU:O	2.50	0.44
45:JK:69:ASP:OD1	45:JK:70:LEU:N	2.50	0.44
45:JM:205:ASP:OD1	45:JM:303:ALA:HA	2.16	0.44
46:JN:157:GLU:HA	46:JN:157:GLU:OE1	2.17	0.44
45:KC:183:GLU:N	45:KC:184:PRO:HD2	2.33	0.44
45:KG:221:ARG:HA	46:KH:324:LYS:HZ3	1.81	0.44
46:KH:44:LEU:HD12	46:KH:47:ILE:HD13	1.99	0.44
45:KI:107:HIS:ND1	45:KI:107:HIS:O	2.51	0.44
46:KL:326:VAL:O	46:KL:330:MET:HG2	2.18	0.44
46:KN:28:HIS:HA	46:KN:43:GLN:OE1	2.17	0.44
46:KN:200:MET:HA	46:KN:200:MET:HE3	1.99	0.44
45:LA:338:LYS:HZ2	45:LA:340:THR:N	2.14	0.44
46:LB:139:LEU:HD22	46:LB:188:SER:CB	2.47	0.44
45:LC:76:ASP:HA	45:LC:79:ARG:HG2	1.99	0.44
45:LE:31:GLN:HG2	45:LE:33:ASP:OD1	2.17	0.44
45:LG:262:TYR:OH	46:LJ:391:ARG:O	2.35	0.44
46:LH:134:GLN:HG3	46:LH:165:GLU:OE2	2.17	0.44
46:LH:395:LEU:HD22	46:LH:408:PHE:HE2	1.83	0.44
46:LJ:222:TYR:HD2	49:LJ:501:GDP:C6	2.35	0.44
46:LJ:380:ARG:O	46:LJ:383:GLU:HG3	2.17	0.44
46:LL:345:ILE:O	46:LL:345:ILE:HG13	2.18	0.44
45:MA:152:LEU:HA	45:MA:155:GLU:OE2	2.17	0.44
46:MD:21:TRP:CZ3	46:MD:61:PRO:HB3	2.52	0.44
46:MD:211:CYS:SG	46:MD:220:PRO:HB3	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ME:93:ILE:HG22	45:ME:114:ILE:HD11	1.98	0.44
45:ME:288:VAL:HA	45:ME:291:ILE:HG12	1.98	0.44
46:MJ:153:SER:O	46:MJ:157:GLU:HG3	2.17	0.44
46:MJ:178:THR:HG22	46:MJ:180:VAL:H	1.81	0.44
45:MK:258:ASN:ND2	46:MN:178:THR:HG23	2.32	0.44
45:NA:270:SER:HB2	45:NA:378:ILE:HD13	1.99	0.44
45:NA:331:SER:O	45:NA:335:ILE:HG12	2.17	0.44
45:NE:325:PRO:HB2	46:NH:208:TYR:OH	2.17	0.44
46:NH:201:VAL:O	46:NH:202:ILE:HD13	2.17	0.44
46:NH:350:LYS:HA	46:NH:350:LYS:HE2	1.99	0.44
45:NI:392:ASP:OD1	45:NI:422:ARG:NH1	2.45	0.44
46:NJ:173:PRO:HD3	46:NJ:380:ARG:CZ	2.47	0.44
46:NL:4:ILE:HG13	46:NL:132:GLY:O	2.17	0.44
46:NL:405:GLU:HA	46:NL:408:PHE:HD2	1.82	0.44
45:NM:91:GLN:CG	45:NM:121:ARG:HH21	2.30	0.44
45:NM:116:ASP:OD1	45:NM:117:LEU:N	2.49	0.44
45:NM:224:TYR:HD1	45:NM:227:LEU:HD11	1.82	0.44
45:NM:270:SER:HA	45:NM:377:MET:O	2.18	0.44
46:NN:19:LYS:HD3	46:NN:19:LYS:HA	1.81	0.44
46:NN:317:PHE:CD2	46:NN:365:VAL:HG22	2.53	0.44
45:OA:105:ARG:HA	45:OA:109:THR:HG23	1.99	0.44
45:OA:419:SER:O	45:OA:423:GLU:HG2	2.18	0.44
45:OE:10:GLY:O	45:OE:14:ILE:HG12	2.16	0.44
45:OE:205:ASP:OD1	45:OE:303:ALA:HA	2.17	0.44
45:OG:49:PHE:HB2	45:OG:53:PHE:HB2	2.00	0.44
46:OL:107:THR:OG1	46:OL:108:GLU:OE1	2.25	0.44
45:OM:222:PRO:HG2	46:ON:324:LYS:CE	2.46	0.44
45:OM:265:ILE:HG12	45:OM:432:TYR:CE1	2.50	0.44
46:PB:237:THR:HG22	46:PB:250:LEU:HD21	1.98	0.44
46:PD:237:THR:HG22	46:PD:250:LEU:HD21	1.98	0.44
46:PH:174:LYS:NZ	46:PH:380:ARG:HH12	2.15	0.44
45:PI:322:ASP:OD2	45:PI:373:ARG:NH1	2.51	0.44
45:PK:340:THR:HG23	45:PK:341:ILE:HG12	1.99	0.44
45:PM:269:LEU:HD23	45:PM:379:SER:O	2.18	0.44
46:QD:133:PHE:O	46:QD:164:MET:HA	2.16	0.44
45:QG:211:ASP:HA	45:QG:214:ARG:NE	2.30	0.44
45:QG:242:LEU:HD21	45:QG:251:ASP:HA	1.99	0.44
46:QJ:10:GLY:O	46:QJ:14:ASN:ND2	2.50	0.44
46:QJ:105:HIS:CE1	46:QJ:150:LEU:HD13	2.53	0.44
46:RB:116:VAL:HA	46:RB:119:VAL:HG12	2.00	0.44
45:RE:12:GLY:HA2	45:RE:15:GLN:NE2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RF:252:LYS:HZ3	45:RG:100:ALA:HA	1.81	0.44
46:RF:290:THR:OG1	46:RF:329:GLN:NE2	2.22	0.44
45:RG:85:GLN:OE1	45:RG:85:GLN:N	2.48	0.44
45:RG:141:VAL:HG12	45:RG:171:ILE:O	2.17	0.44
45:RG:157:LEU:HD22	45:RG:166:LYS:HE2	1.99	0.44
46:RH:156:ARG:HH21	46:RH:164:MET:CG	2.31	0.44
45:RI:141:VAL:HG12	45:RI:171:ILE:O	2.17	0.44
46:RJ:4:ILE:HG13	46:RJ:132:GLY:O	2.17	0.44
46:RJ:203:ASP:OD1	46:RJ:206:ALA:N	2.35	0.44
45:RM:91:GLN:OE1	45:RM:91:GLN:N	2.50	0.44
46:RN:318:ARG:HH11	46:RN:358:PRO:HG3	1.80	0.44
46:SF:295:ASP:OD1	46:SF:296:ALA:N	2.50	0.44
46:SF:316:LEU:HG	46:SF:352:SER:HB2	1.98	0.44
46:SH:267:MET:HB2	46:SH:299:MET:CE	2.47	0.44
45:SI:5:ILE:HB	45:SI:135:PHE:CD1	2.52	0.44
45:SI:71:GLU:O	45:SI:71:GLU:HG2	2.18	0.44
45:SK:82:THR:HG23	45:SK:83:TYR:HD1	1.83	0.44
45:SK:268:MET:HB2	45:SK:379:SER:O	2.17	0.44
45:SK:430:LYS:HA	45:SK:433:GLU:OE2	2.18	0.44
46:SL:221:THR:HG23	46:SL:224:ASP:H	1.81	0.44
46:SL:322:SER:HB2	45:SM:222:PRO:O	2.16	0.44
46:TB:240:LEU:HD11	46:TB:249:ASP:HA	1.98	0.44
46:TB:292:GLN:HA	46:TB:295:ASP:OD1	2.17	0.44
46:TD:226:ASN:HA	46:TD:229:VAL:HG12	2.00	0.44
46:TD:303:ALA:HA	46:TD:376:GLU:OE2	2.18	0.44
45:TE:102:ASN:ND2	45:TE:105:ARG:HG3	2.33	0.44
46:TF:153:SER:O	46:TF:157:GLU:HG2	2.17	0.44
46:TF:317:PHE:CD1	46:TF:365:VAL:HG22	2.51	0.44
45:TG:91:GLN:OE1	45:TG:91:GLN:N	2.51	0.44
46:TH:167:PHE:CE2	46:TH:233:MET:HG2	2.52	0.44
45:TI:187:SER:O	45:TI:191:THR:HG23	2.17	0.44
46:TJ:41:ASP:OD1	46:TJ:42:LEU:HD12	2.16	0.44
46:TJ:268:ILE:H	46:TJ:299:MET:HE1	1.82	0.44
46:TL:282:ARG:HE	46:TL:283:ALA:N	2.14	0.44
45:TM:332:ILE:HG22	45:TM:336:LYS:NZ	2.32	0.44
46:UF:221:THR:OG1	46:UF:222:TYR:N	2.50	0.44
46:UH:318:ARG:HH11	46:UH:358:PRO:HG3	1.82	0.44
46:UL:245:GLN:NE2	46:UL:355:ASP:OD1	2.49	0.44
45:UM:81:GLY:H	45:UM:84:ARG:HE	1.66	0.44
45:UM:414:GLU:CD	45:UM:416:GLY:H	2.21	0.44
45:VA:22:GLU:O	45:VA:26:LEU:HD23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:113:GLU:OE1	45:VA:113:GLU:N	2.42	0.44
45:VA:117:LEU:O	45:VA:121:ARG:HG2	2.17	0.44
45:VC:88:HIS:ND1	45:VC:90:GLU:HG3	2.32	0.44
46:VD:39:ASP:OD1	46:VD:40:SER:N	2.50	0.44
45:VE:356:ASN:OD1	45:VE:357:TYR:N	2.50	0.44
46:VF:418:LEU:HD12	46:VF:421:GLU:OE1	2.18	0.44
46:VH:5:VAL:HG12	46:VH:62:ARG:HD3	1.99	0.44
46:VJ:260:PHE:HB2	46:VJ:263:LEU:HD13	1.98	0.44
46:VL:318:ARG:NH1	46:VL:358:PRO:HG3	2.32	0.44
45:WA:255:PHE:HA	45:WA:259:LEU:HD13	1.98	0.44
46:WB:69:GLU:HA	46:WB:69:GLU:OE1	2.17	0.44
46:WB:321:MET:HB3	46:WB:325:GLU:OE2	2.17	0.44
46:WD:39:ASP:H	46:WD:43:GLN:HE22	1.64	0.44
46:WF:12:CYS:O	46:WF:16:ILE:HG12	2.17	0.44
46:WH:263:LEU:HG	46:WH:422:TYR:HD1	1.82	0.44
46:WJ:398:TYR:O	46:WJ:403:MET:HB2	2.18	0.44
45:WK:404:PHE:CD1	46:WL:259:PRO:HA	2.52	0.44
46:WN:69:GLU:HA	46:WN:69:GLU:OE2	2.17	0.44
46:WN:267:MET:CE	46:WN:299:MET:HB2	2.47	0.44
45:CE:54:SER:HB3	45:CE:64:ARG:NH2	2.32	0.44
27:2C:25:LYS:NZ	45:LI:362:VAL:O	2.37	0.44
20:2K:429:HIS:NE2	45:GE:282:TYR:CZ	2.85	0.44
21:2L:870:ARG:HE	46:CJ:359:LYS:HZ3	1.65	0.44
24:2P:414:ASN:ND2	46:TL:276:ARG:O	2.50	0.44
25:2R:29:LYS:HZ3	45:MG:47:ASP:HB3	1.81	0.44
25:2R:29:LYS:NZ	45:MG:47:ASP:HB3	2.32	0.44
27:3C:218:ARG:CD	46:KB:320:ARG:HH11	2.30	0.44
34:4R:253:ARG:O	34:4R:253:ARG:HG3	2.17	0.44
34:4R:391:PHE:CD2	46:EF:215:LEU:HD21	2.52	0.44
34:4R:536:ARG:HH11	34:4R:609:LEU:HA	1.82	0.44
15:4X:38:ILE:HA	15:4X:41:GLN:HG3	2.00	0.44
36:5A:138:ARG:HH12	46:ND:357:PRO:CD	2.23	0.44
36:5B:154:ASP:O	36:5B:156:VAL:N	2.48	0.44
37:5E:60:TRP:HA	46:OB:279:GLN:OE1	2.17	0.44
35:5S:92:GLU:OE1	35:5S:95:LEU:HG	2.18	0.44
35:5S:189:VAL:HA	35:5S:192:MET:CE	2.48	0.44
35:5S:198:LEU:H	35:5S:198:LEU:HD23	1.82	0.44
40:6G:138:LYS:NZ	45:VG:298:PRO:HD3	2.32	0.44
40:6G:163:LYS:HD2	46:VH:296:ALA:HB3	2.00	0.44
41:6H:329:LEU:HB3	46:FJ:361:LEU:HD21	2.00	0.44
10:6Q:65:PRO:HA	10:6Q:153:ARG:HH22	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6R:12:LEU:HB2	34:6R:15:HIS:CD2	2.52	0.44
46:AB:58:ARG:NH2	46:BB:281:TYR:HA	2.32	0.44
46:AB:97:ALA:HA	46:AB:103:LYS:HE3	2.00	0.44
45:AC:386:GLU:O	45:AC:389:SER:OG	2.23	0.44
46:AD:5:VAL:HG12	46:AD:62:ARG:HD3	2.00	0.44
46:AD:16:ILE:HD13	46:AD:226:ASN:OD1	2.17	0.44
45:AE:56:THR:HG23	45:AE:58:ALA:H	1.81	0.44
46:AH:184:ASN:OD1	46:AH:185:ALA:N	2.51	0.44
46:AH:281:TYR:OH	46:MH:83:GLN:O	2.27	0.44
45:AK:265:ILE:HG22	45:AK:380:ASN:HD21	1.82	0.44
46:AN:124:ALA:O	46:AN:130:LEU:HD21	2.18	0.44
45:BC:319:TYR:CE2	45:BC:328:VAL:HG22	2.52	0.44
46:BD:87:PRO:HA	46:BD:90:PHE:CD2	2.48	0.44
46:BD:286:VAL:HG12	46:BD:329:GLN:OE1	2.17	0.44
45:BE:19:ALA:HA	45:BE:22:GLU:OE1	2.17	0.44
45:BE:121:ARG:HH12	45:BE:124:LYS:HD2	1.83	0.44
46:BF:97:ALA:HA	46:BF:103:LYS:HE2	1.99	0.44
46:BH:22:GLU:HG2	46:BH:81:PHE:CD1	2.52	0.44
46:BH:335:ASN:HB2	46:BH:336:LYS:HZ2	1.80	0.44
45:BI:224:TYR:HD1	47:BI:501:GTP:C6	2.35	0.44
46:BJ:20:PHE:CD1	46:BJ:233:MET:HG2	2.53	0.44
46:BJ:65:LEU:HD11	46:BJ:85:PHE:CD1	2.52	0.44
45:BM:186:ASN:OD1	45:BM:187:SER:N	2.50	0.44
45:BM:217:LEU:HD11	45:BM:367:ASP:HB3	1.99	0.44
46:BN:324:LYS:HE2	46:BN:324:LYS:HB2	1.56	0.44
45:CA:326:LYS:HE3	46:CB:219:THR:HA	1.99	0.44
45:CC:288:VAL:HA	45:CC:291:ILE:HG12	1.98	0.44
46:CH:7:ILE:HD13	46:CH:64:ILE:HB	2.00	0.44
46:CJ:306:ARG:HB2	46:CJ:340:TYR:HE1	1.82	0.44
46:CJ:324:LYS:HG3	46:CJ:325:GLU:N	2.33	0.44
45:CK:200:VAL:HG13	45:CK:268:MET:CE	2.47	0.44
45:CK:352:LYS:HZ1	46:CL:178:THR:CA	2.19	0.44
46:CL:77:ARG:NH1	46:CL:83:GLN:HA	2.31	0.44
46:DB:346:PRO:HD3	45:DC:397:LEU:HD23	2.00	0.44
46:DL:210:ILE:HD11	46:DL:299:MET:O	2.17	0.44
46:DL:324:LYS:HD2	46:DL:324:LYS:N	2.33	0.44
46:ED:268:ILE:HG22	46:ED:368:VAL:HG22	1.98	0.44
46:EF:117:LEU:HA	46:EF:120:VAL:HG12	1.99	0.44
46:EF:207:LEU:HD23	46:EF:300:MET:HB2	1.99	0.44
46:EN:15:GLN:NE2	49:EN:501:GDP:C5	2.85	0.44
45:FA:333:ALA:O	45:FA:337:THR:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FD:324:LYS:HA	46:FD:324:LYS:HD2	1.71	0.44
45:FG:98:ASP:OD1	45:FG:99:ALA:N	2.50	0.44
45:FG:188:ILE:HD12	45:FG:425:LEU:HD11	1.99	0.44
46:FH:224:ASP:O	46:FH:228:LEU:HD23	2.17	0.44
45:FI:224:TYR:HE2	46:FJ:246:LEU:HD11	1.82	0.44
45:FM:21:TRP:CZ2	45:FM:65:ALA:HB2	2.53	0.44
46:FN:178:THR:HG22	46:FN:180:VAL:H	1.82	0.44
46:FN:268:ILE:HG22	46:FN:368:VAL:HG22	1.98	0.44
46:GB:64:ILE:HD11	46:GB:123:GLU:HG3	1.98	0.44
45:GC:116:ASP:O	45:GC:119:LEU:HG	2.18	0.44
45:GC:133:GLN:HB3	45:GC:252:ILE:HD11	1.99	0.44
46:GD:379:LYS:O	46:GD:383:GLU:HG2	2.18	0.44
46:GF:344:TRP:CE3	46:GF:345:ILE:HG23	2.53	0.44
46:GJ:86:ARG:HH11	46:HJ:281:TYR:HE2	1.64	0.44
45:GM:109:THR:HG22	45:GM:110:ILE:HG23	1.99	0.44
45:GM:140:SER:OG	47:GM:501:GTP:O2B	2.35	0.44
46:GN:248:SER:HA	46:GN:252:LYS:HD2	1.99	0.44
46:GN:391:ARG:HA	46:GN:391:ARG:HD2	1.73	0.44
45:HA:22:GLU:HG3	45:HA:83:TYR:OH	2.18	0.44
45:HA:76:ASP:OD2	46:HB:46:ARG:NH2	2.50	0.44
46:HB:288:GLU:HA	46:HB:291:GLN:HG3	1.99	0.44
45:HC:288:VAL:HA	45:HC:291:ILE:HG22	1.98	0.44
46:HD:178:THR:HG22	46:HD:180:VAL:H	1.82	0.44
45:HG:276:ILE:HD11	45:HG:280:LYS:HG3	1.98	0.44
46:HH:31:ASP:OD2	46:HH:33:THR:OG1	2.36	0.44
45:HM:171:ILE:HG23	45:HM:204:LEU:O	2.17	0.44
46:HN:12:CYS:O	46:HN:16:ILE:HG12	2.17	0.44
45:IA:284:GLU:HG3	45:IA:286:LEU:HD23	1.99	0.44
45:IA:434:GLU:O	45:IA:437:ILE:HG22	2.18	0.44
46:ID:267:MET:HB3	46:ID:267:MET:HE2	1.87	0.44
45:IG:170:THR:HG1	45:IG:172:TYR:HE2	1.60	0.44
45:IG:414:GLU:CD	45:IG:416:GLY:H	2.19	0.44
46:IH:69:GLU:HA	46:IH:70:PRO:HD3	1.84	0.44
45:II:209:ILE:HD12	45:II:209:ILE:H	1.82	0.44
45:II:231:ILE:O	45:II:235:ILE:HG12	2.18	0.44
46:IJ:16:ILE:HD13	46:IJ:226:ASN:OD1	2.17	0.44
46:IJ:137:HIS:O	46:IJ:168:SER:HA	2.17	0.44
45:IK:195:LEU:HD21	45:IK:264:ARG:NH2	2.33	0.44
46:IL:7:ILE:HG22	46:IL:64:ILE:HB	1.99	0.44
46:IL:99:ASN:HA	46:IL:142:GLY:H	1.81	0.44
45:JC:371:VAL:HG12	45:JC:373:ARG:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JD:372:THR:HA	46:JD:422:TYR:CE2	2.53	0.44
45:JE:90:GLU:HG2	45:KE:280:LYS:HZ2	1.83	0.44
45:JE:260:VAL:HG13	45:JE:260:VAL:O	2.18	0.44
45:JG:194:LEU:O	45:JG:198:THR:HG22	2.18	0.44
45:JG:420:GLU:OE2	45:NG:308:ARG:HD2	2.17	0.44
45:JI:184:PRO:O	45:JI:188:ILE:HG12	2.17	0.44
45:JI:231:ILE:O	45:JI:235:ILE:HG12	2.17	0.44
45:JK:304:LYS:HA	45:JK:304:LYS:HD2	1.77	0.44
45:JK:422:ARG:NH1	45:JK:422:ARG:O	2.51	0.44
45:JK:430:LYS:HA	45:JK:433:GLU:HG3	1.98	0.44
45:KA:9:VAL:HG13	45:KA:139:ASN:HB3	1.99	0.44
45:KA:102:ASN:ND2	45:KA:105:ARG:HG3	2.33	0.44
46:KD:342:VAL:HG13	46:KD:345:ILE:HG22	1.99	0.44
45:KE:259:LEU:HD21	45:KE:316:SER:HB2	1.99	0.44
46:KH:145:SER:OG	46:KH:188:SER:HB3	2.18	0.44
46:KH:286:VAL:HG12	46:KH:329:GLN:HG3	1.98	0.44
46:KH:405:GLU:HA	46:KH:408:PHE:HD2	1.81	0.44
46:KJ:375:GLN:OE1	46:KJ:423:GLN:NE2	2.50	0.44
45:KM:116:ASP:OD1	45:KM:117:LEU:N	2.49	0.44
46:KN:254:ALA:O	46:KN:258:ILE:HG12	2.18	0.44
45:LA:119:LEU:O	45:LA:123:ARG:HG2	2.17	0.44
46:LB:318:ARG:HB3	46:LB:357:PRO:HA	2.00	0.44
45:LC:10:GLY:O	45:LC:14:ILE:HG12	2.18	0.44
46:LF:313:ALA:HB3	46:LF:349:ILE:CD1	2.48	0.44
46:LF:409:THR:O	46:LF:412:GLU:HG3	2.17	0.44
45:LG:69:ASP:OD1	45:LG:71:GLU:HG3	2.16	0.44
46:LH:405:GLU:O	46:LH:409:THR:HG23	2.17	0.44
45:LK:41:THR:HG22	45:LK:41:THR:O	2.16	0.44
45:LM:40:LYS:O	45:LM:41:THR:HG22	2.18	0.44
45:LM:171:ILE:O	45:LM:171:ILE:HG13	2.17	0.44
45:LM:424:ASP:O	45:LM:428:LEU:HD23	2.17	0.44
46:MD:159:TYR:HB3	46:MD:162:ARG:HG3	2.00	0.44
45:ME:107:HIS:ND1	45:ME:107:HIS:O	2.51	0.44
46:MJ:201:VAL:O	46:MJ:202:ILE:HD13	2.17	0.44
45:MM:322:ASP:OD1	45:MM:373:ARG:NH1	2.49	0.44
46:MN:225:LEU:O	46:MN:229:VAL:HG23	2.17	0.44
46:MN:238:CYS:SG	46:MN:318:ARG:HD2	2.58	0.44
45:NA:24:PHE:O	45:NA:27:GLU:HG3	2.17	0.44
45:NA:317:MET:HB3	45:NA:319:TYR:CE1	2.53	0.44
46:NB:328:GLU:O	46:NB:331:LEU:HG	2.17	0.44
45:NC:137:VAL:HG12	45:NC:167:LEU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NC:318:MET:HB2	45:NC:376:CYS:SG	2.57	0.44
46:ND:19:LYS:HA	46:ND:22:GLU:OE2	2.17	0.44
46:NF:21:TRP:CZ2	46:NF:63:ALA:HB2	2.52	0.44
45:NG:137:VAL:HG12	45:NG:167:LEU:O	2.18	0.44
45:NI:353:VAL:HG12	46:NL:177:ASP:OD1	2.17	0.44
45:NM:118:CYS:O	45:NM:122:ILE:HG12	2.18	0.44
45:OA:217:LEU:HD12	45:OA:367:ASP:HB3	1.99	0.44
45:OC:340:THR:HG23	45:OC:341:ILE:HG13	2.00	0.44
46:OD:222:TYR:O	46:OD:226:ASN:ND2	2.50	0.44
45:OG:414:GLU:HB3	45:OG:417:GLU:OE1	2.17	0.44
45:OK:420:GLU:O	45:OK:423:GLU:HG2	2.16	0.44
46:OL:66:MET:HA	46:OL:91:VAL:O	2.17	0.44
46:OL:294:PHE:CD2	46:OL:333:VAL:HG21	2.52	0.44
45:OM:147:SER:HB2	45:OM:190:SER:HB2	1.99	0.44
46:ON:86:ARG:HG3	46:ON:88:ASP:H	1.82	0.44
46:ON:188:SER:O	46:ON:192:LEU:HD23	2.18	0.44
45:PA:19:ALA:HA	45:PA:22:GLU:OE1	2.16	0.44
46:PB:325:GLU:HA	46:PB:328:GLU:HG2	1.98	0.44
45:PE:51:THR:HG21	45:PE:243:ARG:HD3	2.00	0.44
46:PH:268:ILE:HG22	46:PH:368:VAL:HG12	1.98	0.44
45:PM:19:ALA:HA	45:PM:22:GLU:OE1	2.18	0.44
45:QA:141:VAL:HG12	45:QA:171:ILE:O	2.18	0.44
46:QB:317:PHE:CD2	46:QB:365:VAL:HG22	2.52	0.44
46:QJ:178:THR:HB	46:QJ:181:GLU:HG3	1.99	0.44
45:QK:257:THR:HG22	46:QL:397:TRP:CZ3	2.52	0.44
46:QL:318:ARG:HH11	46:QL:358:PRO:HG3	1.82	0.44
46:QN:237:THR:HG23	46:QN:241:ARG:HH21	1.82	0.44
45:RA:229:ARG:HH22	45:RA:367:ASP:CG	2.19	0.44
45:RC:311:LYS:N	45:RC:382:THR:OG1	2.49	0.44
45:RC:326:LYS:HD3	46:RD:212:PHE:HZ	1.83	0.44
46:RD:416:ASN:OD1	46:RD:417:ASP:N	2.51	0.44
45:RE:119:LEU:HA	45:RE:122:ILE:HG12	1.99	0.44
46:RH:6:HIS:O	46:RH:63:ALA:HA	2.17	0.44
46:RJ:67:ASP:OD1	46:RJ:68:LEU:N	2.50	0.44
46:RJ:237:THR:HG23	46:RJ:241:ARG:NH1	2.33	0.44
45:RK:371:VAL:HG22	45:RK:373:ARG:H	1.82	0.44
46:RL:156:ARG:HA	46:RL:156:ARG:CZ	2.47	0.44
46:RL:262:ARG:NH1	46:RL:418:LEU:HD13	2.32	0.44
46:RL:327:ASP:HA	46:RL:330:MET:HE3	1.99	0.44
46:SB:122:LYS:HE2	46:TB:291:GLN:OE1	2.17	0.44
45:SC:21:TRP:CH2	45:SC:63:PRO:HB3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SD:324:LYS:HB2	45:SE:210:TYR:CE2	2.51	0.44
46:SH:190:HIS:CE1	46:SH:414:ASN:HD22	2.35	0.44
46:SJ:232:ALA:HB1	46:SJ:268:ILE:HD11	1.98	0.44
46:SJ:282:ARG:HH21	46:SJ:288:GLU:HB3	1.83	0.44
46:SL:256:ASN:OD1	46:SL:350:LYS:NZ	2.37	0.44
46:SL:375:GLN:O	46:SL:379:LYS:HG2	2.17	0.44
45:SM:141:VAL:HG11	45:SM:172:TYR:CD2	2.53	0.44
45:SM:175:PRO:HA	45:SM:390:ARG:CZ	2.48	0.44
45:SM:296:PHE:HE1	45:SM:377:MET:HE3	1.82	0.44
46:SN:116:VAL:HA	46:SN:119:VAL:HG12	2.00	0.44
45:TC:425:LEU:O	45:TC:428:LEU:HB3	2.17	0.44
46:TD:4:ILE:HG13	46:TD:132:GLY:O	2.16	0.44
46:TD:21:TRP:CZ2	46:TD:63:ALA:HB2	2.52	0.44
46:TD:385:PHE:CZ	46:TD:408:PHE:CD2	3.02	0.44
45:TE:339:ARG:NE	45:TE:339:ARG:HA	2.32	0.44
46:TN:99:ASN:HA	46:TN:142:GLY:H	1.81	0.44
46:UB:72:THR:O	46:UB:76:VAL:HG22	2.17	0.44
46:UB:259:PRO:HA	45:UC:404:PHE:CE1	2.53	0.44
45:UC:88:HIS:CE1	45:VA:280:LYS:HG2	2.53	0.44
45:UE:27:GLU:HG2	45:UE:361:THR:HG21	1.99	0.44
46:UF:213:ARG:NE	46:UF:297:LYS:HB3	2.29	0.44
46:UF:258:ILE:HD12	46:UF:264:HIS:HB3	1.98	0.44
45:UG:107:HIS:ND1	45:UG:107:HIS:O	2.51	0.44
45:UG:336:LYS:HD3	45:UG:336:LYS:HA	1.74	0.44
46:UH:97:ALA:HB3	46:UH:143:THR:HB	1.98	0.44
45:UI:171:ILE:HG23	45:UI:204:LEU:O	2.18	0.44
46:UJ:163:ILE:HD13	46:UJ:251:ARG:HG2	1.98	0.44
46:UL:344:TRP:CE3	46:UL:345:ILE:HG23	2.53	0.44
46:UN:215:LEU:HA	46:UN:275:SER:HA	1.99	0.44
45:VA:223:THR:OG1	45:VA:224:TYR:N	2.50	0.44
45:VA:260:VAL:CG1	46:VD:397:TRP:HZ2	2.30	0.44
45:VC:17:GLY:HA2	45:VC:20:CYS:HG	1.82	0.44
45:VC:98:ASP:OD1	45:VC:99:ALA:N	2.50	0.44
46:VD:326:VAL:O	46:VD:330:MET:HG2	2.16	0.44
46:VF:258:ILE:HG13	46:VF:258:ILE:O	2.18	0.44
46:VF:391:ARG:HA	46:VF:391:ARG:HD2	1.73	0.44
45:VG:56:THR:HG23	45:VG:58:ALA:H	1.82	0.44
45:VG:205:ASP:CG	45:VG:304:LYS:H	2.17	0.44
45:VG:261:PRO:HA	46:VJ:394:PHE:CD2	2.52	0.44
46:VJ:217:LEU:H	46:VJ:217:LEU:HD23	1.83	0.44
46:VJ:257:LEU:HD11	46:VJ:314:SER:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VL:47:ILE:HG22	46:VL:51:TYR:HB2	1.98	0.44
45:VM:141:VAL:HG22	45:VM:187:SER:HA	1.99	0.44
45:WA:101:ASN:OD1	46:WB:252:LYS:NZ	2.50	0.44
46:WB:318:ARG:HH11	46:WB:358:PRO:HG3	1.82	0.44
46:WD:19:LYS:HZ1	46:WD:227:HIS:HA	1.82	0.44
45:WE:10:GLY:O	45:WE:14:ILE:HG12	2.18	0.44
45:WG:21:TRP:HZ2	45:WG:65:ALA:HB2	1.82	0.44
45:WK:88:HIS:CE1	45:WK:90:GLU:HG3	2.52	0.44
45:WK:288:VAL:HG13	45:WK:373:ARG:NH1	2.32	0.44
46:WL:286:VAL:HB	46:WL:325:GLU:OE1	2.18	0.44
14:0V:98:LEU:HD21	45:LM:415:GLU:HG2	1.99	0.44
4:1D:180:ARG:HH22	46:EF:57:GLY:N	2.16	0.44
9:1N:156:HIS:HD1	46:KJ:26:ASP:HB2	1.81	0.44
24:1P:341:LEU:HD21	45:TC:26:LEU:HD13	1.98	0.44
26:1W:61:LYS:NZ	46:LH:361:LEU:HD22	2.31	0.44
23:2O:318:LEU:HD21	45:VE:362:VAL:HG13	1.98	0.44
24:2P:354:LYS:NZ	46:TN:359:LYS:HG2	2.27	0.44
12:2T:237:TYR:HB2	46:MJ:405:GLU:OE2	2.17	0.44
13:2U:193:LYS:HB2	46:WJ:80:PRO:HD3	1.98	0.44
34:4R:573:LEU:HD21	34:4R:580:LEU:HB2	1.99	0.44
15:4X:31:ASP:O	15:4X:32:LEU:HB2	2.17	0.44
37:5F:96:TYR:O	37:5F:100:VAL:HG22	2.18	0.44
37:5G:78:LEU:HD21	37:5G:97:ARG:HG2	2.00	0.44
34:5R:215:LEU:HA	34:5R:218:ILE:HG13	1.99	0.44
34:5R:472:GLU:OE2	46:EJ:80:PRO:HD3	2.18	0.44
35:5S:102:LEU:HD21	35:5S:127:LEU:HD12	1.99	0.44
39:6F:119:GLU:HA	39:6F:122:GLU:HG3	2.00	0.44
41:6H:286:GLU:HG2	41:6H:289:LYS:HA	1.98	0.44
10:6Q:170:ARG:NE	10:6Q:172:TYR:CZ	2.85	0.44
42:8L:119:UNK:O	42:8L:120:UNK:C	2.66	0.44
46:AB:274:THR:HB	46:AB:282:ARG:NH2	2.32	0.44
45:AC:21:TRP:CZ2	45:AC:65:ALA:HB2	2.52	0.44
45:AC:178:SER:OG	46:AD:347:ASN:HB3	2.18	0.44
46:AD:201:VAL:HG23	46:AD:301:CYS:SG	2.58	0.44
46:AH:164:MET:O	46:AH:197:ASP:HB3	2.17	0.44
45:AI:107:HIS:ND1	45:AI:107:HIS:O	2.51	0.44
45:BA:90:GLU:HG2	45:BA:121:ARG:NH2	2.31	0.44
45:BA:254:GLU:HG2	46:BD:98:GLY:HA2	2.00	0.44
45:BA:263:PRO:HD3	46:BD:396:HIS:NE2	2.33	0.44
45:BC:268:MET:HG3	45:BC:380:ASN:HB2	2.00	0.44
46:BD:28:HIS:C	46:BD:43:GLN:HE21	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BG:424:ASP:OD1	45:BG:425:LEU:N	2.50	0.44
46:BL:30:ILE:HG13	46:BL:51:TYR:HE2	1.82	0.44
45:BM:91:GLN:NE2	45:BM:125:LEU:HD21	2.32	0.44
45:BM:206:ASN:HB3	45:BM:210:TYR:CE2	2.52	0.44
46:BN:375:GLN:HG3	46:BN:379:LYS:HZ2	1.83	0.44
45:CA:240:ALA:HA	45:CA:243:ARG:NH1	2.32	0.44
45:CC:21:TRP:CZ2	45:CC:65:ALA:HB2	2.53	0.44
45:CG:75:ILE:HG23	45:CG:92:LEU:HD12	1.99	0.44
45:CG:145:THR:HG22	47:CG:501:GTP:PG	2.57	0.44
46:CH:163:ILE:HD11	46:CH:251:ARG:HE	1.82	0.44
46:CJ:226:ASN:ND2	49:CJ:501:GDP:HN1	2.15	0.44
46:CN:3:GLU:HG3	46:CN:62:ARG:HH12	1.82	0.44
46:CN:47:ILE:HG12	46:CN:51:TYR:HB2	1.99	0.44
46:CN:86:ARG:HG3	46:CN:88:ASP:H	1.83	0.44
46:DD:258:ILE:O	46:DD:258:ILE:HG13	2.17	0.44
46:DD:330:MET:HA	46:DD:333:VAL:HG12	2.00	0.44
46:DF:183:TYR:CZ	46:DF:388:MET:SD	3.11	0.44
46:DF:324:LYS:NZ	45:DG:210:TYR:CD1	2.85	0.44
46:DJ:64:ILE:HD13	46:DJ:119:VAL:HG13	1.98	0.44
46:DJ:66:MET:HE1	46:DJ:147:MET:HG2	2.00	0.44
46:DJ:318:ARG:HB3	46:DJ:357:PRO:HA	2.00	0.44
46:DL:201:VAL:HG23	46:DL:301:CYS:SG	2.58	0.44
46:DL:322:SER:H	45:DM:221:ARG:NH2	2.16	0.44
45:EC:26:LEU:CD2	45:EC:364:PRO:HD3	2.48	0.44
45:EI:141:VAL:HG12	45:EI:171:ILE:O	2.17	0.44
46:EL:303:ALA:HA	46:EL:376:GLU:OE2	2.17	0.44
46:EN:66:MET:HE1	46:EN:116:VAL:HG21	2.00	0.44
46:FB:4:ILE:HG13	46:FB:132:GLY:O	2.18	0.44
45:FC:115:VAL:HG11	45:FC:152:LEU:HD23	2.00	0.44
45:FC:174:SER:HB2	45:FC:177:VAL:O	2.18	0.44
46:FD:178:THR:HG22	46:FD:180:VAL:H	1.82	0.44
45:FE:414:GLU:OE1	45:FE:416:GLY:N	2.47	0.44
45:FG:414:GLU:CD	45:FG:416:GLY:H	2.20	0.44
45:FI:265:ILE:HG23	45:FI:432:TYR:OH	2.17	0.44
46:FJ:113:ILE:HG21	46:FJ:154:LYS:NZ	2.33	0.44
45:FK:288:VAL:HA	45:FK:291:ILE:HG12	1.99	0.44
45:FM:209:ILE:HG12	45:FM:302:MET:HG3	2.00	0.44
46:FN:12:CYS:HA	46:FN:15:GLN:NE2	2.31	0.44
46:FN:54:ALA:HB3	46:FN:58:ARG:HG2	1.99	0.44
45:GA:27:GLU:OE2	45:GA:243:ARG:NH2	2.51	0.44
45:GE:132:LEU:HD22	45:GE:164:LYS:HD2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GF:379:LYS:O	46:GF:383:GLU:HG2	2.17	0.44
45:GI:229:ARG:HH12	45:GI:363:VAL:HG21	1.83	0.44
45:GK:274:PRO:HG3	45:GK:286:LEU:HD23	1.99	0.44
45:GK:324:VAL:HG12	45:GK:326:LYS:HG2	1.99	0.44
45:GK:419:SER:O	45:GK:422:ARG:N	2.50	0.44
46:GL:1:MET:O	46:GL:2:ARG:HG2	2.18	0.44
46:GN:376:GLU:HA	46:GN:379:LYS:HG2	1.98	0.44
45:HA:71:GLU:HA	45:HA:72:PRO:HD3	1.87	0.44
46:HL:6:HIS:HD2	46:HL:7:ILE:N	2.16	0.44
45:HM:88:HIS:ND1	45:HM:90:GLU:HG2	2.33	0.44
46:HN:318:ARG:HH11	46:HN:358:PRO:HG3	1.82	0.44
46:IB:22:GLU:HA	46:IB:81:PHE:HD1	1.81	0.44
46:IB:116:VAL:HA	46:IB:119:VAL:HG22	1.99	0.44
45:IG:3:GLU:OE2	45:IG:131:GLY:N	2.48	0.44
45:II:402:ARG:NH1	45:II:415:GLU:OE2	2.51	0.44
46:IJ:282:ARG:NH2	46:IJ:288:GLU:OE2	2.45	0.44
46:IJ:295:ASP:HB3	46:IJ:298:ASN:HB2	1.98	0.44
45:IM:227:LEU:O	45:IM:230:LEU:HG	2.17	0.44
46:IN:135:ILE:HB	46:IN:166:THR:HG22	1.98	0.44
45:JA:2:ARG:HH21	46:JD:70:PRO:HD2	1.83	0.44
45:JC:271:SER:OG	45:JC:301:MET:SD	2.75	0.44
46:JD:113:ILE:HD13	46:JD:150:LEU:HD22	1.99	0.44
45:JE:184:PRO:O	45:JE:188:ILE:HG12	2.17	0.44
46:JF:289:LEU:HD23	46:JF:289:LEU:HA	1.81	0.44
46:JF:299:MET:HG3	46:JF:305:PRO:HG3	2.00	0.44
45:JG:40:LYS:NZ	45:JG:42:ILE:HD13	2.33	0.44
46:JL:187:LEU:HD11	46:JL:408:PHE:CE2	2.52	0.44
46:JL:342:VAL:HG13	46:JL:345:ILE:HG22	2.00	0.44
46:KB:148:GLY:O	46:KB:152:ILE:HG13	2.18	0.44
46:KB:252:LYS:HG2	46:KB:350:LYS:HE3	1.99	0.44
45:KC:274:PRO:HG3	45:KC:286:LEU:HD12	2.00	0.44
45:KE:54:SER:HB3	45:KE:64:ARG:NH2	2.32	0.44
45:KE:317:MET:HE1	45:KE:351:PHE:CD2	2.53	0.44
45:KE:411:GLU:N	45:KE:411:GLU:OE1	2.50	0.44
45:KG:30:ILE:HD13	45:KG:36:MET:CE	2.47	0.44
45:KI:53:PHE:O	45:KI:64:ARG:NH2	2.51	0.44
45:KK:324:VAL:O	45:KK:328:VAL:HG23	2.18	0.44
45:KM:209:ILE:HD12	45:KM:227:LEU:HB3	2.00	0.44
45:LA:338:LYS:NZ	45:LA:339:ARG:H	2.15	0.44
45:LC:102:ASN:ND2	45:LC:105:ARG:HG3	2.32	0.44
45:LE:160:ASP:C	45:LE:161:TYR:HD1	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LF:156:ARG:HA	46:LF:156:ARG:HD2	1.77	0.44
46:LH:3:GLU:HG3	46:LH:62:ARG:NH1	2.33	0.44
45:LK:275:ILE:HD13	45:LK:275:ILE:HA	1.87	0.44
45:MA:164:LYS:HA	45:MA:164:LYS:HD3	1.74	0.44
45:MA:272:TYR:CD2	45:MA:275:ILE:HD11	2.52	0.44
46:MB:110:ALA:O	46:MB:113:ILE:HG22	2.18	0.44
46:MB:254:ALA:O	46:MB:258:ILE:HG12	2.18	0.44
45:MC:298:PRO:O	45:MC:301:MET:HG2	2.17	0.44
46:MD:21:TRP:HA	46:MD:24:ILE:HG22	2.00	0.44
46:MD:372:THR:HA	46:MD:422:TYR:HE2	1.82	0.44
45:MG:24:PHE:CE1	45:MG:52:PHE:HE2	2.35	0.44
45:NA:27:GLU:HB3	45:NA:361:THR:HG21	1.99	0.44
46:NB:167:PHE:CE2	46:NB:233:MET:HG2	2.52	0.44
45:NC:305:CYS:HA	45:NC:386:GLU:OE2	2.17	0.44
45:NE:19:ALA:HA	45:NE:22:GLU:OE2	2.18	0.44
45:NE:231:ILE:O	45:NE:235:ILE:HG12	2.16	0.44
46:NF:146:GLY:O	46:NF:149:THR:HG22	2.17	0.44
45:NG:346:TRP:CD1	46:NJ:391:ARG:HG3	2.52	0.44
46:NH:117:LEU:HA	46:NH:120:VAL:HG22	2.00	0.44
45:NI:89:PRO:HG2	45:OI:280:LYS:NZ	2.31	0.44
46:NJ:208:TYR:HE1	46:NJ:225:LEU:HD11	1.82	0.44
46:NJ:258:ILE:HG13	46:NJ:266:PHE:HZ	1.82	0.44
45:NK:100:ALA:HB1	46:NL:252:LYS:HA	1.99	0.44
46:NL:374:ILE:HD12	46:NL:378:PHE:HE2	1.83	0.44
46:OD:32:PRO:HB3	46:OD:81:PHE:HA	1.99	0.44
45:OE:429:GLU:O	45:OE:433:GLU:OE1	2.35	0.44
46:OH:87:PRO:HA	46:OH:90:PHE:HD2	1.83	0.44
45:OI:51:THR:HG21	45:OI:243:ARG:HB3	1.99	0.44
46:OJ:139:LEU:HG	46:OJ:168:SER:HB3	1.99	0.44
46:OJ:158:GLU:HG2	46:OJ:159:TYR:CD1	2.52	0.44
45:OK:188:ILE:HA	45:OK:191:THR:HG22	1.99	0.44
46:ON:17:GLY:HA2	46:ON:20:PHE:HB3	1.99	0.44
46:PB:207:LEU:HD13	46:PB:225:LEU:HB3	2.00	0.44
45:PC:3:GLU:OE2	45:PC:131:GLY:N	2.38	0.44
45:PC:176:GLN:OE1	45:PC:176:GLN:N	2.50	0.44
46:PD:267:MET:HE1	46:PD:301:CYS:HB2	1.99	0.44
45:PE:320:ARG:HB2	45:PE:358:GLN:O	2.18	0.44
46:PF:396:HIS:HA	46:PF:399:THR:OG1	2.18	0.44
46:PH:178:THR:HG22	46:PH:180:VAL:H	1.82	0.44
46:PH:289:LEU:O	46:PH:293:MET:HG3	2.17	0.44
46:PH:318:ARG:HB3	46:PH:357:PRO:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PI:117:LEU:O	45:PI:121:ARG:HG2	2.17	0.44
46:PJ:154:LYS:HA	46:PJ:154:LYS:HD3	1.86	0.44
45:PK:103:PHE:H	45:PK:408:TYR:HE2	1.66	0.44
45:PM:259:LEU:HD11	45:PM:316:SER:HB3	2.00	0.44
45:PM:331:SER:O	45:PM:335:ILE:HG12	2.17	0.44
46:QB:65:LEU:HD12	46:QB:90:PHE:CD2	2.53	0.44
45:QC:390:ARG:HB3	45:QC:394:LYS:HZ1	1.83	0.44
45:QE:202:VAL:HA	45:QE:268:MET:O	2.17	0.44
45:QG:308:ARG:HH11	45:QG:308:ARG:HG2	1.81	0.44
46:QH:376:GLU:O	46:QH:380:ARG:HG2	2.18	0.44
45:QI:141:VAL:HG11	45:QI:172:TYR:CD1	2.50	0.44
45:RA:352:LYS:HD2	46:RB:177:ASP:O	2.17	0.44
45:RC:253:THR:HA	45:RC:256:GLN:NE2	2.32	0.44
46:RD:253:LEU:O	46:RD:257:LEU:HD23	2.17	0.44
46:RF:256:ASN:OD1	45:RG:181:VAL:HG22	2.18	0.44
45:RG:138:PHE:CD1	45:RG:169:PHE:HB2	2.52	0.44
46:RH:51:TYR:HB3	46:RH:59:TYR:HB3	2.00	0.44
46:RH:276:ARG:HA	46:RH:276:ARG:HD3	1.81	0.44
46:SD:252:LYS:NZ	47:SE:501:GTP:O1G	2.33	0.44
46:SD:293:MET:HE2	46:SD:367:PHE:HB3	2.00	0.44
46:SF:280:GLN:HG2	46:SF:281:TYR:HD1	1.83	0.44
45:SG:203:MET:CE	45:SG:267:PHE:HB3	2.47	0.44
46:SJ:314:SER:HA	46:SJ:350:LYS:O	2.17	0.44
45:SK:305:CYS:SG	45:SK:306:ASP:N	2.91	0.44
45:SM:31:GLN:NE2	45:SM:37:PRO:HB3	2.33	0.44
45:TE:212:ILE:HD11	45:TE:300:ASN:HA	1.99	0.44
46:TF:256:ASN:ND2	46:TF:350:LYS:HE2	2.32	0.44
46:TF:337:ASN:HB3	46:TF:340:TYR:HD2	1.82	0.44
45:TG:127:ASP:OD1	45:TG:128:ASN:N	2.51	0.44
46:TH:27:GLU:HA	46:TH:359:LYS:HE2	2.00	0.44
46:TJ:206:ALA:O	46:TJ:210:ILE:HG12	2.17	0.44
46:TL:136:THR:HG22	46:TL:167:PHE:HB2	1.99	0.44
46:TL:164:MET:O	46:TL:197:ASP:HB2	2.17	0.44
45:TM:227:LEU:O	45:TM:231:ILE:HG12	2.17	0.44
45:UA:188:ILE:HD11	45:UA:391:LEU:HB3	1.98	0.44
46:UB:47:ILE:HG12	46:UB:51:TYR:HB2	1.99	0.44
46:UD:86:ARG:HA	46:VD:281:TYR:CE1	2.53	0.44
46:UF:3:GLU:CD	46:UF:3:GLU:H	2.21	0.44
45:UG:286:LEU:O	45:UG:373:ARG:NH1	2.50	0.44
45:UI:434:GLU:O	45:UI:437:ILE:HG12	2.17	0.44
46:UJ:22:GLU:HG2	46:UJ:81:PHE:CD1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:86:ARG:NH1	46:UN:88:ASP:HB3	2.33	0.44
46:VB:69:GLU:HA	46:VB:70:PRO:HD3	1.85	0.44
46:VB:377:MET:O	46:VB:380:ARG:HD3	2.17	0.44
45:VC:227:LEU:O	45:VC:231:ILE:HG12	2.17	0.44
46:VF:9:GLY:HA2	46:VF:66:MET:O	2.18	0.44
46:VH:77:ARG:CZ	46:VH:83:GLN:HA	2.48	0.44
46:VH:178:THR:HG22	46:VH:180:VAL:H	1.82	0.44
45:VI:8:HIS:HB2	45:VI:67:PHE:CD1	2.52	0.44
46:VJ:198:GLU:HG2	46:VJ:266:PHE:HE2	1.82	0.44
46:VJ:286:VAL:O	46:VJ:290:THR:HG23	2.17	0.44
46:VJ:391:ARG:HA	46:VJ:391:ARG:HD2	1.74	0.44
45:VK:174:SER:CB	45:VK:207:GLU:HG3	2.47	0.44
45:VK:288:VAL:HA	45:VK:291:ILE:HG12	1.98	0.44
45:WA:136:LEU:HD22	45:WA:169:PHE:HE2	1.82	0.44
45:WA:136:LEU:HD23	45:WA:167:LEU:HB2	2.00	0.44
45:WC:180:ALA:HA	46:WD:350:LYS:CE	2.46	0.44
45:WC:398:MET:CE	46:WD:345:ILE:HA	2.47	0.44
45:WE:356:ASN:OD1	45:WE:357:TYR:N	2.50	0.44
46:WF:1:MET:HB3	46:WF:46:ARG:HH21	1.82	0.44
46:WF:164:MET:SD	46:WF:196:ALA:HA	2.58	0.44
45:WG:180:ALA:HA	46:WH:350:LYS:HE2	1.99	0.44
45:WI:79:ARG:O	45:WI:84:ARG:HG2	2.17	0.44
45:WK:31:GLN:HB2	45:WK:33:ASP:OD1	2.18	0.44
45:WK:222:PRO:O	46:WL:324:LYS:HG2	2.17	0.44
45:WK:269:LEU:HD23	45:WK:379:SER:O	2.17	0.44
45:WM:4:VAL:O	45:WM:64:ARG:NE	2.49	0.44
45:CE:121:ARG:HH12	45:CE:124:LYS:HD2	1.83	0.44
45:DC:51:THR:HG21	45:DC:243:ARG:HB3	1.99	0.44
1:0A:72:GLY:N	45:AA:221:ARG:HH11	2.15	0.44
13:1U:194:ARG:HH12	46:WF:79:GLY:C	2.20	0.44
4:2D:99:ARG:HH22	45:EK:365:GLY:H	1.65	0.44
20:2K:315:ARG:HH12	45:GI:372:MET:HB3	1.80	0.44
24:2P:418:GLN:HE21	46:TL:276:ARG:NH1	2.11	0.44
35:4S:152:THR:O	35:4S:153:LYS:HG2	2.17	0.44
15:4X:4:VAL:HG23	15:4X:5:LYS:HG3	1.99	0.44
36:5A:138:ARG:HE	46:ND:359:LYS:NZ	2.16	0.44
37:5E:154:TYR:HE2	37:5F:11:TRP:CE2	2.35	0.44
37:5G:61:LYS:HG2	46:OJ:276:ARG:NH2	2.32	0.44
37:5H:54:LYS:HD2	46:ON:227:HIS:ND1	2.33	0.44
34:5R:89:ASP:OD2	34:5R:90:ARG:HG2	2.17	0.44
35:5S:76:ILE:HA	35:5S:89:TRP:HD1	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:7R:262:TRP:HE3	34:7R:274:TYR:HH	1.65	0.44
46:AB:130:LEU:HD21	46:AB:133:PHE:CE1	2.52	0.44
46:AF:272:PRO:HG3	46:AF:284:LEU:HD11	2.00	0.44
45:AG:176:GLN:O	46:AH:347:ASN:ND2	2.51	0.44
46:AH:19:LYS:HG3	46:AH:226:ASN:HB3	1.99	0.44
46:AH:77:ARG:NH1	46:AH:77:ARG:HB3	2.33	0.44
45:AK:331:SER:O	45:AK:335:ILE:HG12	2.17	0.44
46:AL:139:LEU:HD13	46:AL:168:SER:HB2	1.98	0.44
46:BB:21:TRP:CZ2	46:BB:63:ALA:HB2	2.53	0.44
45:BC:11:GLN:HG3	45:BC:15:GLN:OE1	2.17	0.44
45:BE:9:VAL:HG13	45:BE:139:ASN:HB3	2.00	0.44
45:BE:319:TYR:HB3	45:BE:323:VAL:HG11	1.98	0.44
45:BG:68:LEU:HD21	45:BG:118:CYS:SG	2.57	0.44
45:BI:401:LYS:HE2	46:BJ:344:TRP:CZ3	2.53	0.44
46:BJ:304:ASP:OD2	46:BJ:306:ARG:HG2	2.17	0.44
45:BK:224:TYR:HD1	45:BK:227:LEU:HD12	1.82	0.44
46:BL:318:ARG:HD3	46:BL:358:PRO:HD3	2.00	0.44
45:CC:155:GLU:OE2	45:CC:156:ARG:HG3	2.18	0.44
46:CH:216:LYS:HB3	46:CH:275:SER:HB3	2.00	0.44
46:CJ:113:ILE:HD13	46:CJ:150:LEU:HD22	1.98	0.44
45:CK:21:TRP:CH2	45:CK:63:PRO:HB3	2.52	0.44
45:CK:259:LEU:HD11	45:CK:316:SER:HB2	1.99	0.44
45:CM:141:VAL:HG12	45:CM:171:ILE:O	2.17	0.44
45:CM:426:ALA:HB1	45:CM:430:LYS:HZ1	1.82	0.44
46:DD:217:LEU:HD23	46:DD:219:THR:H	1.81	0.44
45:DE:345:ASP:N	45:DE:345:ASP:OD2	2.46	0.44
46:DH:390:ARG:HA	46:DH:390:ARG:CZ	2.48	0.44
45:EC:272:TYR:HD1	45:EC:376:CYS:SG	2.41	0.44
45:EC:390:ARG:O	45:EC:394:LYS:HD3	2.17	0.44
45:EE:422:ARG:HD2	45:EE:425:LEU:HD11	1.99	0.44
46:EF:175:VAL:HG22	46:EF:205:GLU:CD	2.37	0.44
46:EF:190:HIS:CE1	46:EF:414:ASN:HD22	2.35	0.44
46:EF:341:PHE:HB3	46:EF:348:ASN:HD21	1.82	0.44
45:EI:108:TYR:HA	45:EI:112:LYS:HE3	1.98	0.44
45:EI:259:LEU:HD13	45:EI:314:ALA:HB1	1.99	0.44
46:EL:313:ALA:HB1	46:EL:367:PHE:CE1	2.52	0.44
46:FD:64:ILE:HG13	46:FD:120:VAL:HG22	2.00	0.44
46:FD:86:ARG:NH1	46:GD:281:TYR:HB3	2.30	0.44
46:FD:406:MET:O	46:FD:410:GLU:HG3	2.17	0.44
46:FF:117:LEU:HA	46:FF:120:VAL:HG12	2.00	0.44
45:FI:343:PHE:CZ	45:FI:351:PHE:HE1	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FJ:268:ILE:HG13	46:FJ:300:MET:CE	2.47	0.44
45:GA:201:ALA:HB3	45:GA:267:PHE:HD2	1.82	0.44
45:GA:276:ILE:HD12	45:GA:281:ALA:HB1	1.99	0.44
45:GC:387:VAL:HA	45:GC:390:ARG:HG2	1.99	0.44
45:GC:425:LEU:HD23	45:GC:425:LEU:HA	1.79	0.44
45:GE:2:ARG:O	45:GE:51:THR:HA	2.17	0.44
45:GE:100:ALA:HB1	46:GF:252:LYS:HA	2.00	0.44
45:GE:326:LYS:HG3	46:GH:220:PRO:HG2	2.00	0.44
46:GF:3:GLU:H	46:GF:3:GLU:CD	2.21	0.44
45:GG:68:LEU:HD13	45:GG:93:ILE:HB	1.99	0.44
45:GI:296:PHE:CE2	45:GI:335:ILE:HG21	2.53	0.44
45:GM:141:VAL:HG11	45:GM:172:TYR:HD1	1.83	0.44
45:HC:297:GLU:HG2	45:HC:298:PRO:HD2	2.00	0.44
45:HC:317:MET:SD	45:HC:377:MET:HG2	2.58	0.44
45:HE:88:HIS:H	45:HE:91:GLN:NE2	2.15	0.44
46:HJ:68:LEU:HD21	46:HJ:147:MET:CE	2.48	0.44
46:HJ:94:GLN:OE1	46:HJ:94:GLN:N	2.50	0.44
45:HM:212:ILE:HD11	45:HM:300:ASN:HA	2.00	0.44
45:IA:75:ILE:HD12	45:IA:75:ILE:H	1.82	0.44
46:IB:19:LYS:HZ2	46:IB:227:HIS:HB2	1.83	0.44
45:IC:18:ASN:O	45:IC:22:GLU:OE1	2.35	0.44
45:IE:268:MET:HG3	45:IE:380:ASN:HB2	1.99	0.44
45:IG:241:SER:HA	45:IG:356:ASN:HD21	1.83	0.44
46:IH:135:ILE:HB	46:IH:166:THR:HG22	1.99	0.44
45:II:434:GLU:O	45:II:437:ILE:HG12	2.17	0.44
46:IJ:232:ALA:HB1	46:IJ:268:ILE:HD12	1.99	0.44
46:IL:309:ARG:NH2	46:IL:426:GLN:O	2.41	0.44
45:IM:103:PHE:H	45:IM:408:TYR:HE2	1.66	0.44
45:JA:420:GLU:OE2	45:NA:308:ARG:NE	2.38	0.44
46:JB:16:ILE:HD13	46:JB:226:ASN:OD1	2.17	0.44
45:JC:377:MET:SD	45:JC:379:SER:HB3	2.57	0.44
46:JF:63:ALA:O	46:JF:89:ASN:ND2	2.48	0.44
45:JG:261:PRO:HA	46:JJ:394:PHE:CD1	2.53	0.44
46:JJ:284:LEU:HD22	46:JJ:362:LYS:HB3	1.99	0.44
46:JJ:294:PHE:CD2	46:JJ:333:VAL:HG21	2.53	0.44
46:KB:6:HIS:O	46:KB:63:ALA:HA	2.17	0.44
45:KE:205:ASP:OD1	45:KE:303:ALA:HA	2.17	0.44
46:KF:268:ILE:O	46:KF:300:MET:HB2	2.17	0.44
46:KJ:416:ASN:HA	46:KJ:419:VAL:HG12	2.00	0.44
46:KL:273:LEU:H	46:KL:292:GLN:NE2	2.13	0.44
45:LA:53:PHE:HB3	45:LA:61:HIS:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LA:345:ASP:OD2	45:LA:438:GLU:HG2	2.17	0.44
46:LB:248:SER:HA	46:LB:252:LYS:HD2	1.98	0.44
45:LC:288:VAL:HA	45:LC:291:ILE:CG1	2.45	0.44
45:LG:345:ASP:OD1	45:LG:345:ASP:N	2.50	0.44
46:LH:67:ASP:O	46:LH:92:PHE:HA	2.18	0.44
46:LJ:336:LYS:HE2	46:LJ:336:LYS:HB2	1.70	0.44
45:LK:221:ARG:HH12	46:LL:320:ARG:NH2	2.15	0.44
45:LK:430:LYS:O	45:LK:434:GLU:OE1	2.36	0.44
45:LM:363:VAL:HG13	45:LM:366:GLY:HA3	2.00	0.44
46:LN:86:ARG:NH1	46:MN:281:TYR:HB3	2.32	0.44
46:LN:86:ARG:CZ	46:MN:281:TYR:HB3	2.47	0.44
46:MB:384:GLN:O	46:MB:388:MET:HG2	2.16	0.44
45:MC:372:MET:SD	45:MC:372:MET:N	2.79	0.44
45:MG:56:THR:HG23	45:MG:58:ALA:H	1.83	0.44
45:MG:434:GLU:O	45:MG:437:ILE:HG12	2.18	0.44
46:MJ:113:ILE:HA	46:MJ:116:VAL:HG12	1.98	0.44
46:ML:238:CYS:SG	46:ML:239:CYS:N	2.91	0.44
45:NA:426:ALA:O	45:NA:429:GLU:HG3	2.17	0.44
46:NB:242:PHE:HB3	46:NB:356:ILE:HD13	1.99	0.44
45:NC:208:ALA:HB2	45:NC:304:LYS:HG3	1.99	0.44
45:NC:286:LEU:HD12	45:NC:291:ILE:HG22	2.00	0.44
45:NE:138:PHE:CE1	45:NE:169:PHE:HD2	2.36	0.44
45:NE:183:GLU:N	45:NE:184:PRO:HD2	2.31	0.44
45:NG:223:THR:HG23	45:NG:225:THR:HG23	2.00	0.44
46:NH:409:THR:O	46:NH:412:GLU:HG3	2.18	0.44
45:NM:399:TYR:OH	45:NM:402:ARG:NH2	2.51	0.44
45:OA:297:GLU:HB2	45:OA:300:ASN:ND2	2.32	0.44
45:OA:426:ALA:O	45:OA:430:LYS:HG2	2.18	0.44
46:OB:372:THR:HG21	46:OB:426:GLN:HB2	2.00	0.44
46:OD:113:ILE:HG21	46:OD:150:LEU:HD22	1.99	0.44
46:OD:173:PRO:HD3	46:OD:380:ARG:NH1	2.33	0.44
46:OF:310:TYR:HA	46:OF:371:SER:HB2	1.99	0.44
45:OG:287:SER:H	45:OG:290:GLU:CD	2.20	0.44
45:OI:257:THR:HG22	46:OL:397:TRP:CZ3	2.53	0.44
45:OK:175:PRO:HD2	45:OK:207:GLU:OE2	2.18	0.44
45:OK:326:LYS:HG3	46:ON:208:TYR:CE1	2.53	0.44
45:OK:407:TRP:CE3	46:OL:255:VAL:HG12	2.52	0.44
46:OL:87:PRO:HG2	46:PL:278:SER:OG	2.18	0.44
46:OL:290:THR:HA	46:OL:293:MET:HG2	2.00	0.44
45:PA:71:GLU:HA	45:PA:72:PRO:HD3	1.82	0.44
45:PA:224:TYR:CD1	45:PA:227:LEU:HD12	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PC:10:GLY:O	45:PC:14:ILE:HG12	2.17	0.44
46:PD:86:ARG:HH22	46:QB:278:SER:HA	1.83	0.44
46:PD:258:ILE:HG13	46:PD:266:PHE:HZ	1.82	0.44
46:PD:290:THR:HA	46:PD:293:MET:SD	2.57	0.44
46:PF:149:THR:OG1	46:PF:191:GLN:NE2	2.51	0.44
45:PG:352:LYS:NZ	46:PJ:179:VAL:H	2.00	0.44
46:PH:139:LEU:HD22	46:PH:188:SER:OG	2.18	0.44
46:PH:140:GLY:HA2	46:PH:181:GLU:OE1	2.17	0.44
46:PH:257:LEU:HD21	46:PH:314:SER:HB2	1.98	0.44
45:PI:116:ASP:HA	45:PI:156:ARG:HH12	1.82	0.44
45:PI:141:VAL:HG11	45:PI:172:TYR:CD1	2.52	0.44
45:PK:242:LEU:HD21	45:PK:251:ASP:HA	1.99	0.44
46:PL:286:VAL:HG12	46:PL:329:GLN:OE1	2.17	0.44
45:PM:23:LEU:O	45:PM:27:GLU:OE1	2.35	0.44
45:PM:205:ASP:OD1	45:PM:303:ALA:HA	2.16	0.44
46:QD:276:ARG:HA	46:QD:276:ARG:HD2	1.78	0.44
45:QE:434:GLU:O	45:QE:437:ILE:HG22	2.17	0.44
46:RB:238:CYS:SG	46:RB:318:ARG:HD3	2.58	0.44
45:RC:231:ILE:O	45:RC:235:ILE:HG12	2.18	0.44
46:RD:201:VAL:HG23	46:RD:301:CYS:SG	2.58	0.44
46:RF:3:GLU:HG3	46:RF:62:ARG:NH1	2.32	0.44
46:RF:217:LEU:HD23	46:RF:219:THR:H	1.82	0.44
46:RF:380:ARG:HE	46:RF:380:ARG:HB3	1.62	0.44
46:RH:251:ARG:O	46:RH:255:VAL:HG12	2.17	0.44
45:RI:430:LYS:O	45:RI:433:GLU:HG3	2.18	0.44
46:RJ:251:ARG:HH21	45:RK:105:ARG:NH1	2.16	0.44
46:RN:116:VAL:HA	46:RN:119:VAL:HG12	2.00	0.44
46:SB:44:LEU:HA	46:SB:47:ILE:HB	1.99	0.44
46:SB:313:ALA:O	46:SB:349:ILE:HA	2.17	0.44
45:SC:217:LEU:HB3	45:SC:219:ILE:HG13	1.99	0.44
46:SD:345:ILE:HA	45:SE:398:MET:HE1	1.98	0.44
46:SF:253:LEU:HD22	46:SF:350:LYS:NZ	2.32	0.44
45:SG:30:ILE:HD11	45:SG:34:GLY:O	2.17	0.44
46:SH:61:PRO:HG2	46:SH:85:PHE:HD1	1.81	0.44
46:SH:251:ARG:O	46:SH:255:VAL:HG12	2.17	0.44
46:SH:359:LYS:HA	46:SH:359:LYS:HD2	1.66	0.44
46:SL:296:ALA:HB1	46:SL:305:PRO:HD2	2.00	0.44
46:SN:91:VAL:HG21	46:SN:116:VAL:HB	1.99	0.44
45:TA:91:GLN:HB3	45:TA:121:ARG:HD2	1.99	0.44
46:TB:245:GLN:O	45:TC:11:GLN:NE2	2.51	0.44
45:TC:425:LEU:O	45:TC:429:GLU:OE1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TD:390:ARG:NE	46:TD:390:ARG:HA	2.33	0.44
45:TE:73:THR:O	45:TE:77:GLU:OE1	2.35	0.44
45:TE:75:ILE:HG23	45:TE:92:LEU:HD23	1.99	0.44
46:TF:1:MET:HA	45:TG:96:LYS:HZ1	1.82	0.44
45:TG:244:PHE:HB2	45:TG:356:ASN:HD21	1.83	0.44
46:TH:99:ASN:HA	46:TH:142:GLY:H	1.83	0.44
45:TI:9:VAL:HG13	45:TI:139:ASN:HB3	2.00	0.44
45:TK:19:ALA:HA	45:TK:22:GLU:OE1	2.18	0.44
46:TL:129:CYS:HB3	45:TM:96:LYS:CE	2.46	0.44
46:TN:31:ASP:OD2	46:TN:37:HIS:ND1	2.50	0.44
46:TN:262:ARG:NH1	46:TN:421:GLU:OE1	2.49	0.44
45:UA:140:SER:OG	47:UA:501:GTP:O2B	2.36	0.44
45:UA:172:TYR:CD2	45:UA:203:MET:HG3	2.52	0.44
45:UA:215:ARG:NH2	45:UA:299:ALA:O	2.49	0.44
46:UB:3:GLU:HB2	46:UB:62:ARG:NH1	2.32	0.44
46:UB:391:ARG:HD2	46:UB:391:ARG:HA	1.83	0.44
45:UC:3:GLU:HG3	45:UC:129:CYS:SG	2.58	0.44
45:UC:19:ALA:HA	45:UC:22:GLU:OE1	2.17	0.44
45:UC:186:ASN:OD1	45:UC:187:SER:N	2.51	0.44
45:UC:251:ASP:HB3	45:UC:254:GLU:HG3	2.00	0.44
45:UC:298:PRO:HB2	45:UC:308:ARG:NH1	2.32	0.44
46:UH:28:HIS:C	46:UH:43:GLN:HE21	2.20	0.44
46:UH:119:VAL:O	46:UH:123:GLU:OE1	2.35	0.44
46:UH:150:LEU:O	46:UH:153:SER:OG	2.30	0.44
45:UI:285:GLN:OE1	45:UI:285:GLN:N	2.51	0.44
46:UL:65:LEU:HD11	46:UL:85:PHE:CD2	2.53	0.44
46:UL:170:VAL:HG12	46:UL:202:ILE:O	2.18	0.44
46:UL:226:ASN:HA	46:UL:229:VAL:HG22	2.00	0.44
46:UN:289:LEU:HD23	46:UN:292:GLN:NE2	2.32	0.44
45:VA:224:TYR:HE1	47:VA:501:GTP:C4	2.35	0.44
45:VC:171:ILE:HG22	45:VC:204:LEU:HB2	1.99	0.44
46:VD:184:ASN:OD1	46:VD:185:ALA:N	2.51	0.44
46:VD:248:SER:HA	46:VD:252:LYS:HG3	2.00	0.44
45:VE:426:ALA:O	45:VE:430:LYS:HG2	2.17	0.44
46:VF:226:ASN:HA	46:VF:229:VAL:HG12	2.00	0.44
46:VF:344:TRP:HB3	46:VF:430:ALA:HB2	1.99	0.44
45:VG:221:ARG:NH1	46:VH:325:GLU:H	2.15	0.44
45:VG:221:ARG:CZ	46:VH:322:SER:OG	2.66	0.44
46:VH:21:TRP:CH2	46:VH:61:PRO:HB3	2.53	0.44
46:VL:111:GLU:OE2	46:VL:112:LEU:HG	2.18	0.44
46:VL:409:THR:O	46:VL:412:GLU:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VM:141:VAL:HG11	45:VM:172:TYR:HA	2.00	0.44
45:VM:401:LYS:HB2	45:VM:401:LYS:HE3	1.82	0.44
46:VN:193:VAL:HG22	46:VN:262:ARG:CZ	2.48	0.44
46:VN:212:PHE:O	46:VN:216:LYS:HE2	2.18	0.44
45:WC:5:ILE:HB	45:WC:135:PHE:CD1	2.53	0.44
45:WC:211:ASP:HA	45:WC:214:ARG:HG2	2.00	0.44
45:WE:251:ASP:HB3	45:WE:253:THR:HG22	1.98	0.44
46:WF:105:HIS:CD2	46:WF:150:LEU:HB2	2.53	0.44
46:WJ:222:TYR:O	46:WJ:226:ASN:ND2	2.26	0.44
45:WM:14:ILE:HD12	45:WM:67:PHE:HB3	1.99	0.44
46:WN:186:THR:HA	46:WN:189:VAL:HG12	1.99	0.44
46:WN:317:PHE:CD2	46:WN:365:VAL:HG22	2.53	0.44
46:WN:344:TRP:HE3	46:WN:345:ILE:HG23	1.82	0.44
46:WN:406:MET:O	46:WN:410:GLU:HG2	2.18	0.44
2:0B:58:ARG:HA	46:JH:74:ASP:OD2	2.18	0.44
14:0V:31:LEU:HD21	45:MM:309:HIS:HE1	1.82	0.44
7:1G:91:VAL:HG13	46:JB:279:GLN:HB3	2.00	0.44
7:1G:155:PRO:HB3	45:KA:26:LEU:HD12	1.98	0.44
21:1L:283:ARG:HH21	46:BH:360:GLY:H	1.65	0.44
24:1P:340:ARG:NE	45:TC:31:GLN:HG2	2.33	0.44
27:2C:67:LYS:NZ	45:LI:81:GLY:HA2	2.31	0.44
4:2D:95:GLN:NE2	45:EK:364:PRO:HB2	2.33	0.44
20:2K:266:LEU:O	45:GK:282:TYR:OH	2.18	0.44
25:2R:87:LEU:HA	45:MG:85:GLN:NE2	2.32	0.44
11:2S:46:TRP:CD1	45:WG:89:PRO:HG3	2.52	0.44
14:3V:141:ASN:ND2	45:LC:402:ARG:O	2.50	0.44
30:4H:219:ILE:O	45:MK:84:ARG:NH2	2.50	0.44
34:4R:318:TYR:CE1	46:CF:273:LEU:HD23	2.50	0.44
34:4R:391:PHE:HD2	46:EF:215:LEU:HD21	1.83	0.44
35:4S:176:GLY:O	35:4S:180:VAL:HG23	2.17	0.44
35:4S:184:ARG:HA	35:4S:240:MET:HE3	1.98	0.44
36:5A:66:TYR:CD2	46:NB:32:PRO:HD2	2.53	0.44
36:5D:87:ARG:NH2	45:NM:363:VAL:HG22	2.32	0.44
36:5D:104:PRO:HB3	45:KM:390:ARG:HD3	2.00	0.44
10:5Q:10:PHE:HE1	10:5Q:172:TYR:CD2	2.36	0.44
40:6G:113:ASN:O	40:6G:114:LYS:HE2	2.17	0.44
34:6R:146:LYS:HD2	34:6R:146:LYS:H	1.82	0.44
34:6R:242:ASN:HB2	45:BM:57:GLY:HA3	2.00	0.44
46:AB:27:GLU:HA	46:AB:359:LYS:HG3	1.98	0.44
45:AC:151:SER:HB2	45:AC:193:SER:OG	2.18	0.44
45:AC:200:VAL:HG13	45:AC:268:MET:CE	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AD:55:THR:HG23	46:BD:283:ALA:HA	1.99	0.44
46:AD:68:LEU:HD23	46:AD:97:ALA:N	2.32	0.44
45:AK:141:VAL:HG11	45:AK:172:TYR:CD1	2.53	0.44
45:AK:177:VAL:HG13	46:AL:327:ASP:OD1	2.18	0.44
45:AK:210:TYR:CE1	45:AK:227:LEU:HD21	2.52	0.44
46:AL:3:GLU:CD	46:AL:3:GLU:H	2.21	0.44
46:AL:272:PRO:HG3	46:AL:284:LEU:HD11	2.00	0.44
45:AM:26:LEU:HD21	45:AM:364:PRO:HD2	2.00	0.44
45:AM:413:MET:HB3	45:AM:413:MET:HE2	1.89	0.44
46:AN:262:ARG:HH12	46:AN:421:GLU:HG3	1.83	0.44
45:BC:183:GLU:N	45:BC:184:PRO:HD2	2.33	0.44
46:BD:252:LYS:O	46:BD:256:ASN:ND2	2.50	0.44
45:BG:207:GLU:HB3	45:BG:304:LYS:HG3	1.98	0.44
46:BH:221:THR:OG1	46:BH:222:TYR:N	2.51	0.44
46:BJ:184:ASN:OD1	46:BJ:185:ALA:N	2.51	0.44
45:BK:97:GLU:CD	45:BK:105:ARG:HH12	2.19	0.44
45:BM:68:LEU:HD11	45:BM:118:CYS:HB2	1.99	0.44
45:BM:401:LYS:HD3	45:BM:401:LYS:O	2.18	0.44
45:CA:167:LEU:HD22	45:CA:200:VAL:HB	1.99	0.44
46:CB:213:ARG:HH21	46:CB:297:LYS:HG3	1.83	0.44
46:CD:209:ASP:OD1	46:CD:213:ARG:NH1	2.51	0.44
46:CH:55:THR:HG23	46:DH:283:ALA:HA	2.00	0.44
46:CJ:183:TYR:O	46:CJ:187:LEU:HD23	2.18	0.44
46:CJ:238:CYS:SG	46:CJ:239:CYS:N	2.91	0.44
45:CK:89:PRO:HD2	45:DK:280:LYS:HE3	1.99	0.44
45:CK:117:LEU:O	45:CK:121:ARG:HG2	2.18	0.44
45:CM:21:TRP:HZ2	45:CM:65:ALA:HB2	1.82	0.44
45:DA:91:GLN:HB3	45:DA:121:ARG:HD2	2.00	0.44
45:DE:349:THR:O	46:DF:179:VAL:HG23	2.18	0.44
46:DF:208:TYR:CE1	46:DF:225:LEU:HD11	2.53	0.44
46:DF:252:LYS:HE2	45:DG:101:ASN:HB2	2.00	0.44
45:DI:55:GLU:CD	45:DI:57:GLY:H	2.21	0.44
45:DI:141:VAL:HG12	45:DI:171:ILE:O	2.17	0.44
45:DI:346:TRP:CD1	46:DJ:391:ARG:HG3	2.53	0.44
46:DL:150:LEU:HB2	46:DL:154:LYS:NZ	2.31	0.44
46:DL:384:GLN:O	46:DL:388:MET:HG2	2.17	0.44
45:EA:271:SER:HA	45:EA:302:MET:HG2	1.98	0.44
46:EF:171:PRO:HG2	46:EF:185:ALA:HB2	1.99	0.44
45:EG:101:ASN:HA	45:EG:144:GLY:H	1.82	0.44
46:EH:39:ASP:OD2	46:EH:40:SER:N	2.51	0.44
46:EH:114:ASP:OD1	46:EH:115:SER:N	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EJ:164:MET:O	46:EJ:197:ASP:HB2	2.18	0.44
45:EK:319:TYR:HB3	45:EK:323:VAL:HG21	1.99	0.44
46:FB:201:VAL:HG23	46:FB:301:CYS:SG	2.58	0.44
45:FC:64:ARG:NH1	45:FC:129:CYS:SG	2.91	0.44
46:FD:355:ASP:OD1	46:FD:356:ILE:HD12	2.18	0.44
45:FE:194:LEU:O	45:FE:198:THR:HG22	2.18	0.44
45:FG:105:ARG:NH1	46:FH:251:ARG:HD3	2.33	0.44
45:FI:244:PHE:HB2	45:FI:356:ASN:HD21	1.83	0.44
46:FJ:113:ILE:HD13	46:FJ:154:LYS:NZ	2.32	0.44
45:FK:107:HIS:ND1	45:FK:107:HIS:O	2.51	0.44
46:FN:273:LEU:N	46:FN:292:GLN:HE22	2.06	0.44
46:FN:312:THR:HG22	46:FN:370:ASN:HB3	2.00	0.44
45:GA:223:THR:HG23	45:GA:225:THR:H	1.82	0.44
45:GC:133:GLN:OE1	45:GC:133:GLN:HA	2.16	0.44
46:GD:115:SER:O	46:GD:119:VAL:HG23	2.18	0.44
45:GE:294:SER:O	45:GE:297:GLU:HG3	2.18	0.44
45:GK:55:GLU:HG3	45:GK:57:GLY:H	1.82	0.44
45:GK:332:ILE:HD12	45:GK:351:PHE:CD1	2.52	0.44
46:GL:214:THR:HG23	46:GL:215:LEU:HD12	1.98	0.44
45:GM:68:LEU:HD21	45:GM:118:CYS:SG	2.57	0.44
46:GN:385:PHE:CE2	46:GN:412:GLU:HB3	2.51	0.44
46:HB:119:VAL:HA	46:HB:122:LYS:HG2	1.98	0.44
46:HD:68:LEU:HD13	46:HD:93:GLY:HA3	1.99	0.44
45:HE:377:MET:SD	45:HE:379:SER:HB3	2.57	0.44
46:HJ:317:PHE:HB3	46:HJ:321:MET:HE2	1.99	0.44
45:HK:188:ILE:HD12	45:HK:425:LEU:HD11	1.99	0.44
46:HL:319:GLY:HA2	46:HL:357:PRO:HD3	2.00	0.44
45:HM:18:ASN:O	45:HM:22:GLU:HG2	2.18	0.44
45:HM:210:TYR:CE1	45:HM:227:LEU:HD11	2.53	0.44
46:HN:300:MET:N	46:HN:300:MET:SD	2.91	0.44
45:IA:88:HIS:CE1	45:IA:90:GLU:HB3	2.53	0.44
45:IA:122:ILE:HD12	45:IA:157:LEU:HD21	1.99	0.44
46:IB:196:ALA:HB3	46:IB:264:HIS:HE1	1.81	0.44
46:IB:238:CYS:HB2	46:IB:318:ARG:NH1	2.32	0.44
46:ID:30:ILE:HG13	46:ID:51:TYR:HE2	1.82	0.44
45:IG:88:HIS:O	45:IG:91:GLN:HG2	2.18	0.44
45:II:174:SER:HB2	45:II:177:VAL:O	2.18	0.44
45:II:241:SER:OG	45:II:250:VAL:O	2.17	0.44
45:IK:18:ASN:O	45:IK:22:GLU:OE1	2.36	0.44
46:IL:105:HIS:CE1	46:IL:150:LEU:HD12	2.52	0.44
45:JA:35:GLN:N	45:JA:35:GLN:OE1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JB:284:LEU:HD12	46:JB:362:LYS:HZ3	1.83	0.44
45:JC:21:TRP:CH2	45:JC:63:PRO:HB3	2.52	0.44
45:JC:98:ASP:O	45:JC:105:ARG:NH1	2.51	0.44
46:JD:232:ALA:O	46:JD:236:VAL:HG23	2.18	0.44
45:JE:340:THR:HG23	45:JE:341:ILE:HD12	1.99	0.44
45:JG:227:LEU:O	45:JG:231:ILE:HG12	2.18	0.44
45:JG:408:TYR:O	45:JG:413:MET:HB3	2.17	0.44
46:JL:11:GLN:O	46:JL:15:GLN:HG2	2.18	0.44
45:KA:338:LYS:HZ2	45:KA:339:ARG:H	1.66	0.44
45:KA:338:LYS:HZ3	45:KA:339:ARG:HG3	1.82	0.44
45:KC:167:LEU:HG	45:KC:200:VAL:HB	1.99	0.44
46:KD:121:ARG:NE	46:KD:158:GLU:OE2	2.33	0.44
45:KE:251:ASP:H	45:KE:254:GLU:HB2	1.83	0.44
46:KF:206:ALA:O	46:KF:210:ILE:HG12	2.17	0.44
45:KG:107:HIS:ND1	45:KG:107:HIS:O	2.49	0.44
46:KJ:313:ALA:HB1	46:KJ:367:PHE:HE1	1.82	0.44
46:KL:217:LEU:HD11	46:KL:220:PRO:HB3	1.98	0.44
46:LF:330:MET:CE	46:LF:349:ILE:HG21	2.47	0.44
46:LF:372:THR:HA	46:LF:422:TYR:CZ	2.52	0.44
46:LJ:156:ARG:HG3	46:LJ:195:ASN:HB3	2.00	0.44
45:LM:408:TYR:HD2	45:LM:418:PHE:HZ	1.66	0.44
45:MA:101:ASN:HA	45:MA:144:GLY:H	1.81	0.44
45:MA:260:VAL:HG12	45:MA:266:HIS:HA	2.00	0.44
46:MD:21:TRP:CZ2	46:MD:63:ALA:HB2	2.52	0.44
46:MD:117:LEU:HA	46:MD:120:VAL:HG12	1.98	0.44
46:MD:122:LYS:HD2	46:MD:122:LYS:C	2.38	0.44
45:ME:328:VAL:O	45:ME:332:ILE:HG12	2.18	0.44
46:MF:101:TRP:CE3	46:MF:187:LEU:HD23	2.53	0.44
45:MG:84:ARG:H	45:MG:84:ARG:HG2	1.65	0.44
46:MJ:273:LEU:H	46:MJ:292:GLN:NE2	2.14	0.44
45:MM:11:GLN:H	45:MM:11:GLN:CD	2.21	0.44
45:NE:210:TYR:OH	46:NF:323:THR:OG1	2.26	0.44
46:NH:31:ASP:HB2	46:NH:32:PRO:CD	2.48	0.44
45:NI:210:TYR:CE1	45:NI:227:LEU:HD11	2.45	0.44
45:OA:203:MET:SD	45:OA:267:PHE:HB3	2.58	0.44
45:OC:253:THR:O	45:OC:257:THR:HG23	2.17	0.44
45:OC:329:ASN:ND2	46:OF:175:VAL:HG12	2.33	0.44
46:OF:391:ARG:HA	46:OF:391:ARG:HD2	1.77	0.44
45:OG:426:ALA:O	45:OG:429:GLU:HG3	2.18	0.44
45:OI:210:TYR:CE1	45:OI:227:LEU:HD21	2.52	0.44
46:OJ:6:HIS:CD2	46:OJ:21:TRP:HE1	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OJ:258:ILE:HG13	46:OJ:266:PHE:HZ	1.82	0.44
45:OM:326:LYS:HE3	45:OM:326:LYS:HB2	1.77	0.44
46:ON:372:THR:HG21	46:ON:426:GLN:HG3	2.00	0.44
46:ON:399:THR:HA	46:ON:403:MET:O	2.18	0.44
45:PA:328:VAL:HG11	45:PA:353:VAL:HG21	1.99	0.44
45:PI:90:GLU:N	45:QI:280:LYS:HZ1	2.13	0.44
46:PJ:293:MET:HE1	46:PJ:367:PHE:CD1	2.53	0.44
46:PJ:312:THR:HG22	46:PJ:370:ASN:HB3	1.99	0.44
45:PK:51:THR:HG21	45:PK:243:ARG:HB3	2.00	0.44
45:PK:324:VAL:HG12	45:PK:326:LYS:HG2	2.00	0.44
46:PL:294:PHE:CD1	46:PL:333:VAL:HG21	2.53	0.44
45:PM:10:GLY:O	45:PM:14:ILE:HG12	2.17	0.44
45:PM:398:MET:HE1	46:PN:345:ILE:HA	1.99	0.44
45:PM:427:ALA:HA	45:PM:430:LYS:NZ	2.32	0.44
46:PN:181:GLU:OE1	46:PN:181:GLU:HA	2.18	0.44
46:PN:381:VAL:HA	46:PN:384:GLN:HE21	1.82	0.44
45:QA:326:LYS:HD3	46:QB:212:PHE:CZ	2.53	0.44
46:QB:309:ARG:HH21	46:QB:342:VAL:HG23	1.82	0.44
46:QB:330:MET:HA	46:QB:333:VAL:HG12	1.99	0.44
45:QE:417:GLU:HA	45:QE:420:GLU:OE2	2.17	0.44
46:QF:312:THR:HG22	46:QF:370:ASN:HB3	1.99	0.44
45:QG:264:ARG:HG3	45:QG:264:ARG:HH11	1.82	0.44
46:QH:187:LEU:HD21	46:QH:408:PHE:HE2	1.83	0.44
46:QH:293:MET:HE2	46:QH:367:PHE:HB2	1.99	0.44
46:QH:347:ASN:ND2	45:QI:178:SER:OG	2.34	0.44
46:QJ:18:ALA:O	46:QJ:22:GLU:HG3	2.16	0.44
46:QJ:45:GLU:CD	46:QJ:46:ARG:HG2	2.39	0.44
46:QJ:108:GLU:O	46:QJ:111:GLU:HG3	2.18	0.44
45:QK:143:GLY:HA3	47:QK:501:GTP:O2B	2.18	0.44
46:QL:164:MET:HG3	46:QL:197:ASP:OD2	2.16	0.44
46:QL:238:CYS:SG	46:QL:239:CYS:N	2.90	0.44
45:RA:262:TYR:OH	46:RB:391:ARG:O	2.35	0.44
46:RB:174:LYS:HB2	46:RB:205:GLU:HG3	1.99	0.44
46:RB:232:ALA:HA	46:RB:270:PHE:HD2	1.83	0.44
45:RC:428:LEU:HG	45:RC:432:TYR:HE2	1.83	0.44
46:RF:72:THR:OG1	46:RF:73:MET:SD	2.74	0.44
46:RF:311:LEU:HD22	46:RF:370:ASN:ND2	2.33	0.44
45:RG:154:LEU:HD13	45:RG:197:HIS:HB3	1.99	0.44
46:RH:274:THR:HB	46:RH:282:ARG:HE	1.82	0.44
46:RH:350:LYS:NZ	46:RH:352:SER:OG	2.27	0.44
45:RI:8:HIS:NE2	45:RI:138:PHE:HD2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RI:387:VAL:HA	45:RI:390:ARG:HG2	1.99	0.44
46:RJ:46:ARG:NH1	46:RJ:243:PRO:HD3	2.31	0.44
45:RK:241:SER:OG	45:RK:250:VAL:O	2.28	0.44
45:SA:141:VAL:HG11	45:SA:172:TYR:HD1	1.83	0.44
45:SA:210:TYR:CE1	45:SA:227:LEU:HD11	2.53	0.44
45:SA:346:TRP:CD1	46:SB:391:ARG:HG3	2.52	0.44
45:SC:388:PHE:HB3	45:SC:425:LEU:HD11	1.99	0.44
46:SD:69:GLU:OE2	46:SD:72:THR:HG23	2.18	0.44
46:SD:252:LYS:HA	46:SD:255:VAL:HG12	1.98	0.44
46:SF:116:VAL:O	46:SF:120:VAL:HG22	2.17	0.44
46:SF:258:ILE:HG13	46:SF:258:ILE:O	2.17	0.44
46:SH:318:ARG:HH11	46:SH:358:PRO:HG3	1.81	0.44
45:SI:434:GLU:O	45:SI:437:ILE:HG22	2.18	0.44
45:SK:254:GLU:HA	45:SK:257:THR:HG22	1.98	0.44
46:SN:65:LEU:HD22	46:SN:90:PHE:CE1	2.52	0.44
45:TC:7:ILE:HB	45:TC:137:VAL:HG12	1.99	0.44
46:TD:290:THR:O	46:TD:293:MET:HB3	2.18	0.44
46:TH:317:PHE:CD1	46:TH:365:VAL:HG22	2.53	0.44
45:TI:51:THR:HG22	45:TI:52:PHE:CD1	2.52	0.44
46:TJ:73:MET:HA	46:TJ:76:VAL:HG12	1.99	0.44
45:TK:231:ILE:O	45:TK:235:ILE:HG12	2.17	0.44
46:TL:390:ARG:HA	46:TL:390:ARG:NE	2.33	0.44
45:TM:19:ALA:HA	45:TM:22:GLU:OE1	2.18	0.44
45:TM:320:ARG:N	45:TM:373:ARG:HH12	2.15	0.44
46:UB:132:GLY:HA2	46:UB:162:ARG:HB3	1.99	0.44
45:UC:229:ARG:O	45:UC:233:GLN:HG2	2.18	0.44
46:UH:2:ARG:NH2	45:UI:96:LYS:O	2.50	0.44
45:UI:326:LYS:HD3	46:UJ:212:PHE:CZ	2.52	0.44
46:UL:87:PRO:HA	46:UL:90:PHE:HD2	1.82	0.44
46:UL:391:ARG:HA	46:UL:391:ARG:HD2	1.75	0.44
46:UN:22:GLU:HG2	46:UN:81:PHE:CD1	2.53	0.44
46:VB:172:SER:OG	46:VB:205:GLU:OE2	2.27	0.44
46:VB:214:THR:HB	46:VB:297:LYS:NZ	2.32	0.44
46:VB:282:ARG:HD3	46:VB:283:ALA:O	2.18	0.44
45:VC:251:ASP:H	45:VC:254:GLU:HG3	1.82	0.44
45:VC:326:LYS:HD3	46:VF:220:PRO:HD2	2.00	0.44
45:VC:352:LYS:NZ	46:VF:179:VAL:HG22	2.32	0.44
46:VD:3:GLU:OE1	46:VD:127:CYS:HB2	2.18	0.44
46:VD:3:GLU:OE2	46:VD:3:GLU:N	2.50	0.44
46:VD:44:LEU:HD22	46:VD:47:ILE:HD13	1.99	0.44
46:VF:42:LEU:HA	46:VF:45:GLU:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VF:376:GLU:O	46:VF:379:LYS:HG2	2.18	0.44
45:VG:47:ASP:OD1	45:VG:47:ASP:N	2.50	0.44
45:VG:209:ILE:HG13	45:VG:302:MET:HE1	1.98	0.44
46:VJ:101:TRP:HB3	46:VJ:398:TYR:HE1	1.81	0.44
45:VK:331:SER:O	45:VK:335:ILE:HG12	2.18	0.44
46:VL:204:ASN:O	46:VL:208:TYR:HD1	2.01	0.44
46:WB:190:HIS:CD2	46:WB:414:ASN:HD22	2.35	0.44
46:WD:165:GLU:OE1	46:WD:198:GLU:HB2	2.18	0.44
45:WG:152:LEU:HD13	45:WG:155:GLU:OE2	2.17	0.44
45:WI:111:GLY:O	45:WI:115:VAL:HG13	2.17	0.44
45:WK:103:PHE:CE1	45:WK:148:GLY:HA2	2.53	0.44
46:WL:45:GLU:HG3	46:WL:46:ARG:HD3	2.00	0.44
45:WM:68:LEU:HD21	45:WM:149:LEU:HD12	1.99	0.44
46:WN:203:ASP:HB2	46:WN:301:CYS:HA	2.00	0.44
45:DC:328:VAL:O	45:DC:332:ILE:HG12	2.17	0.44
1:0A:58:TYR:OH	46:MB:45:GLU:OE1	2.33	0.44
8:1H:60:ARG:NH1	46:HN:33:THR:HG23	2.33	0.44
14:1V:93:MET:O	46:LJ:261:PRO:HB2	2.16	0.44
31:2I:32:PHE:HE1	45:GG:177:VAL:HG21	1.82	0.44
31:2I:96:TRP:HB3	46:FF:125:GLU:OE1	2.16	0.44
23:2O:352:ARG:HH22	46:VF:276:ARG:HH12	1.66	0.44
13:2U:224:ARG:NH1	45:WG:40:LYS:O	2.50	0.44
5:3E:121:ARG:O	34:6R:579:ASN:ND2	2.26	0.44
31:3I:205:ILE:HD13	45:FK:116:ASP:OD2	2.18	0.44
15:3X:49:ILE:HD11	45:MM:282:TYR:CG	2.49	0.44
34:4R:316:THR:O	46:CF:227:HIS:NE2	2.45	0.44
35:4S:214:LEU:H	35:4S:214:LEU:HD23	1.83	0.44
36:5B:127:GLU:OE2	46:NH:276:ARG:NH2	2.51	0.44
36:5D:63:THR:O	36:5D:64:LYS:HE2	2.18	0.44
37:5F:117:ILE:HG22	37:5F:119:GLU:H	1.83	0.44
35:5S:176:GLY:O	35:5S:180:VAL:HG23	2.17	0.44
40:6G:245:SER:O	46:VD:340:TYR:OH	2.34	0.44
41:6H:380:ASP:OD1	41:6H:381:GLN:N	2.46	0.44
41:6H:382:PHE:HZ	45:FK:363:VAL:HG23	1.83	0.44
10:6Q:58:TYR:HB2	10:6Q:155:GLN:OE1	2.18	0.44
34:6R:469:LYS:N	46:EN:77:ARG:HH21	2.13	0.44
34:7R:456:TYR:CE2	45:EA:46:ASP:HB3	2.53	0.44
45:AA:99:ALA:HB3	45:AA:145:THR:HG22	2.00	0.44
45:AC:178:SER:HB2	45:AC:183:GLU:OE1	2.17	0.44
45:AE:51:THR:HG22	45:AE:52:PHE:CD1	2.53	0.44
45:AE:284:GLU:HG2	45:AE:286:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AH:11:GLN:O	46:AH:15:GLN:HG2	2.18	0.44
46:AH:238:CYS:HB2	46:AH:318:ARG:NH2	2.32	0.44
46:AH:281:TYR:OH	46:MH:83:GLN:NE2	2.48	0.44
45:AI:71:GLU:HA	45:AI:72:PRO:HD3	1.90	0.44
45:AI:288:VAL:HA	45:AI:291:ILE:HG12	2.00	0.44
46:AJ:286:VAL:HG23	46:AJ:287:PRO:HD3	2.00	0.44
46:AL:31:ASP:OD2	46:AL:37:HIS:CD2	2.71	0.44
46:AL:344:TRP:CE3	46:AL:345:ILE:HG23	2.53	0.44
45:AM:71:GLU:HG2	46:AN:247:ASN:ND2	2.33	0.44
45:AM:107:HIS:ND1	45:AM:107:HIS:O	2.51	0.44
45:BA:10:GLY:O	45:BA:13:GLY:N	2.51	0.44
46:BD:164:MET:O	46:BD:197:ASP:HB3	2.17	0.44
45:BE:102:ASN:HB3	45:BE:105:ARG:HB2	1.99	0.44
46:BF:204:ASN:OD1	49:BF:501:GDP:O2'	2.34	0.44
46:BF:213:ARG:O	46:BF:216:LYS:HG2	2.17	0.44
45:BM:239:THR:HG23	45:BM:243:ARG:NH1	2.32	0.44
45:CA:66:VAL:HG11	45:CA:122:ILE:HD11	2.00	0.44
45:CA:335:ILE:HA	45:CA:338:LYS:HZ1	1.82	0.44
46:CB:213:ARG:HG2	46:CB:214:THR:N	2.32	0.44
46:CB:350:LYS:NZ	45:CC:181:VAL:H	2.14	0.44
45:CI:393:HIS:O	45:CI:397:LEU:HD23	2.17	0.44
46:CJ:347:ASN:OD1	45:CK:178:SER:OG	2.22	0.44
45:CK:216:ASN:HB3	45:CK:275:ILE:O	2.18	0.44
45:CM:277:SER:C	45:CM:369:ALA:HB2	2.38	0.44
46:DD:290:THR:O	46:DD:293:MET:HB3	2.16	0.44
46:DH:70:PRO:HA	46:DH:73:MET:SD	2.58	0.44
46:DH:284:LEU:HD12	46:DH:363:MET:HB2	1.99	0.44
46:DJ:25:SER:OG	46:DJ:30:ILE:O	2.35	0.44
46:DJ:73:MET:CE	46:DJ:92:PHE:HB3	2.48	0.44
46:DJ:260:PHE:HB2	46:DJ:263:LEU:HD13	2.00	0.44
46:DL:99:ASN:HA	46:DL:142:GLY:H	1.82	0.44
45:EC:224:TYR:HD1	45:EC:227:LEU:HD12	1.83	0.44
45:EE:51:THR:HG22	45:EE:52:PHE:CD1	2.53	0.44
45:EE:88:HIS:HB3	45:EE:91:GLN:CG	2.48	0.44
45:EE:121:ARG:HD2	45:EE:121:ARG:HA	1.75	0.44
45:EE:324:VAL:O	45:EE:328:VAL:HG23	2.18	0.44
45:EE:326:LYS:HA	45:EE:326:LYS:HD3	1.78	0.44
46:EH:213:ARG:NE	46:EH:297:LYS:NZ	2.66	0.44
45:EK:262:TYR:OH	46:EL:391:ARG:O	2.32	0.44
46:EL:217:LEU:HD23	46:EL:220:PRO:HA	2.00	0.44
46:EL:409:THR:O	46:EL:412:GLU:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EN:312:THR:HG22	46:EN:370:ASN:HB3	2.00	0.44
45:FA:100:ALA:HB1	46:FB:252:LYS:HA	1.99	0.44
45:FA:293:ASN:O	45:FA:297:GLU:HG2	2.18	0.44
46:FB:318:ARG:O	46:FB:363:MET:HA	2.17	0.44
45:FC:21:TRP:CZ2	45:FC:65:ALA:HB2	2.52	0.44
46:FF:237:THR:HG23	46:FF:241:ARG:HH11	1.81	0.44
46:FH:9:GLY:HA2	46:FH:66:MET:O	2.17	0.44
45:FI:118:CYS:O	45:FI:122:ILE:HG12	2.18	0.44
45:FI:183:GLU:N	45:FI:184:PRO:HD2	2.32	0.44
46:FJ:342:VAL:HG13	46:FJ:345:ILE:HG22	2.00	0.44
45:FK:90:GLU:HG3	45:FK:121:ARG:NH1	2.19	0.44
45:FK:245:ASP:N	45:FK:245:ASP:OD1	2.51	0.44
45:FK:419:SER:O	45:FK:422:ARG:N	2.51	0.44
45:GE:251:ASP:HB2	45:GE:253:THR:HG22	2.00	0.44
45:GG:147:SER:HB2	45:GG:190:SER:HB3	1.99	0.44
46:GH:282:ARG:NE	46:GH:288:GLU:OE1	2.50	0.44
45:GI:241:SER:OG	45:GI:250:VAL:O	2.23	0.44
46:GJ:391:ARG:HD2	46:GJ:391:ARG:HA	1.79	0.44
45:GM:102:ASN:HB3	45:GM:105:ARG:HB2	1.98	0.44
46:GN:359:LYS:HD3	46:GN:359:LYS:C	2.38	0.44
45:HC:231:ILE:O	45:HC:235:ILE:HG12	2.18	0.44
46:HF:109:GLY:HA2	46:HF:147:MET:CE	2.47	0.44
45:HI:387:VAL:HG12	45:HI:390:ARG:NH1	2.32	0.44
45:HK:286:LEU:HA	45:HK:290:GLU:OE2	2.18	0.44
45:HM:167:LEU:HG	45:HM:200:VAL:HB	2.00	0.44
46:HN:217:LEU:HB2	46:HN:220:PRO:HG3	2.00	0.44
45:IA:297:GLU:HG3	45:IA:299:ALA:H	1.83	0.44
45:IC:210:TYR:CE1	45:IC:227:LEU:HD21	2.52	0.44
46:ID:117:LEU:HD13	46:ID:121:ARG:HH22	1.82	0.44
45:IE:88:HIS:HA	46:JF:281:TYR:CD1	2.53	0.44
45:IE:227:LEU:O	45:IE:231:ILE:HG12	2.18	0.44
45:IG:217:LEU:HD23	45:IG:217:LEU:HA	1.84	0.44
46:IH:134:GLN:HA	46:IH:165:GLU:HB3	1.99	0.44
46:IH:189:VAL:HG13	46:IH:415:MET:HE1	2.00	0.44
46:IJ:3:GLU:OE2	46:IJ:128:ASP:N	2.50	0.44
46:IL:12:CYS:O	46:IL:16:ILE:HG12	2.18	0.44
45:IM:331:SER:O	45:IM:335:ILE:HG12	2.18	0.44
45:JE:31:GLN:NE2	45:JE:37:PRO:HG3	2.27	0.44
46:JH:115:SER:O	46:JH:119:VAL:HG23	2.18	0.44
46:JH:163:ILE:HD11	46:JH:251:ARG:HE	1.82	0.44
46:JH:317:PHE:HB3	46:JH:321:MET:CE	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JJ:238:CYS:HB2	46:JJ:318:ARG:HE	1.82	0.44
45:JK:88:HIS:HB3	45:JK:91:GLN:HG2	2.00	0.44
45:JM:393:HIS:O	45:JM:397:LEU:HD23	2.17	0.44
45:KA:338:LYS:HZ2	45:KA:339:ARG:N	2.15	0.44
45:KE:269:LEU:HD12	45:KE:303:ALA:HB3	1.98	0.44
45:KG:227:LEU:O	45:KG:231:ILE:HG12	2.18	0.44
45:KI:75:ILE:O	45:KI:79:ARG:HG3	2.18	0.44
46:KJ:150:LEU:O	46:KJ:154:LYS:HG2	2.17	0.44
46:KL:183:TYR:HB3	46:KL:398:TYR:HE2	1.82	0.44
45:KM:372:MET:SD	45:KM:372:MET:N	2.91	0.44
46:KN:19:LYS:NZ	46:KN:227:HIS:HB2	2.32	0.44
45:LA:260:VAL:O	45:LA:260:VAL:HG13	2.18	0.44
45:LA:328:VAL:O	45:LA:332:ILE:HG12	2.18	0.44
45:LE:107:HIS:ND1	45:LE:107:HIS:O	2.51	0.44
46:LF:206:ALA:O	46:LF:210:ILE:HG12	2.18	0.44
46:LF:374:ILE:HG22	46:LF:422:TYR:CZ	2.53	0.44
46:LF:380:ARG:O	46:LF:384:GLN:HG2	2.18	0.44
46:LH:167:PHE:CZ	46:LH:233:MET:HG3	2.53	0.44
45:LK:207:GLU:HA	45:LK:210:TYR:CD2	2.49	0.44
45:LM:112:LYS:HA	45:LM:115:VAL:HG22	2.00	0.44
46:MB:167:PHE:CZ	46:MB:233:MET:HG3	2.53	0.44
46:MD:297:LYS:HA	46:MD:297:LYS:HD3	1.68	0.44
46:MD:396:HIS:HA	46:MD:399:THR:OG1	2.17	0.44
45:ME:213:CYS:HA	45:ME:217:LEU:HD23	2.00	0.44
46:MF:113:ILE:HA	46:MF:116:VAL:HG12	1.99	0.44
45:MG:223:THR:HG23	45:MG:225:THR:H	1.82	0.44
46:MH:116:VAL:HA	46:MH:119:VAL:HG12	2.00	0.44
45:MM:220:GLU:O	45:MM:221:ARG:HD2	2.18	0.44
45:NA:11:GLN:HG2	45:NA:15:GLN:HE22	1.82	0.44
45:NA:333:ALA:O	45:NA:337:THR:HG23	2.18	0.44
45:NC:75:ILE:HG23	45:NC:92:LEU:HB3	1.99	0.44
45:NE:431:ASP:O	45:NE:435:VAL:HG23	2.17	0.44
46:NH:174:LYS:HB2	46:NH:205:GLU:OE2	2.18	0.44
46:NJ:207:LEU:HB3	46:NJ:225:LEU:HD22	2.00	0.44
45:NM:107:HIS:O	45:NM:107:HIS:ND1	2.51	0.44
45:NM:215:ARG:NH2	45:NM:300:ASN:HD21	2.16	0.44
45:NM:422:ARG:HD2	45:NM:422:ARG:HA	1.86	0.44
45:OA:87:PHE:HB3	45:OA:91:GLN:NE2	2.33	0.44
45:OA:89:PRO:HD2	45:PA:280:LYS:HE2	2.00	0.44
45:OC:326:LYS:HE3	46:OF:208:TYR:CE1	2.52	0.44
46:OD:52:ASN:ND2	46:OD:62:ARG:HB3	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OD:117:LEU:HA	46:OD:120:VAL:HG12	1.99	0.44
46:OD:184:ASN:OD1	46:OD:185:ALA:N	2.51	0.44
45:OE:69:ASP:OD1	45:OE:70:LEU:N	2.49	0.44
45:OE:111:GLY:O	45:OE:115:VAL:HG13	2.17	0.44
45:OG:101:ASN:HA	45:OG:144:GLY:H	1.83	0.44
45:PA:141:VAL:HG11	45:PA:172:TYR:CD1	2.50	0.44
45:PA:148:GLY:O	45:PA:152:LEU:HD23	2.18	0.44
45:PA:208:ALA:O	45:PA:212:ILE:HG12	2.18	0.44
45:PA:213:CYS:SG	45:PA:219:ILE:HB	2.58	0.44
45:PC:97:GLU:HB2	45:PC:110:ILE:HD13	2.00	0.44
46:PD:102:ALA:H	46:PD:398:TYR:HE1	1.66	0.44
46:PD:183:TYR:O	46:PD:187:LEU:HG	2.17	0.44
45:PE:175:PRO:HA	45:PE:390:ARG:CZ	2.48	0.44
45:PE:258:ASN:HD21	45:PE:352:LYS:HE3	1.83	0.44
45:PG:256:GLN:NE2	45:PG:257:THR:HG23	2.33	0.44
46:PH:3:GLU:OE2	46:PH:127:CYS:HB2	2.17	0.44
46:PJ:46:ARG:HD3	46:PJ:46:ARG:HA	1.76	0.44
45:PK:84:ARG:HD2	45:PK:85:GLN:HE22	1.83	0.44
45:PK:100:ALA:HA	46:PL:252:LYS:HG2	2.00	0.44
45:PK:210:TYR:CE2	46:PL:324:LYS:HG3	2.53	0.44
46:PL:21:TRP:CZ3	46:PL:61:PRO:HB3	2.53	0.44
46:PL:372:THR:HA	46:PL:422:TYR:CE2	2.53	0.44
45:PM:387:VAL:O	45:PM:390:ARG:HG3	2.18	0.44
45:QA:280:LYS:HZ3	45:QA:283:HIS:HB2	1.83	0.44
45:QA:308:ARG:HA	45:QA:308:ARG:CZ	2.48	0.44
45:QC:259:LEU:HB3	45:QC:268:MET:SD	2.58	0.44
46:QD:239:CYS:SG	46:QD:354:CYS:HB2	2.58	0.44
46:QF:375:GLN:NE2	46:QF:379:LYS:HE2	2.32	0.44
45:QG:434:GLU:O	45:QG:437:ILE:HG12	2.18	0.44
46:QH:2:ARG:HB2	46:QH:240:LEU:HD21	1.99	0.44
46:QN:318:ARG:HH11	46:QN:358:PRO:HG3	1.82	0.44
45:RA:387:VAL:HA	45:RA:390:ARG:HG2	1.98	0.44
46:RB:138:SER:HA	46:RB:169:VAL:HG22	1.99	0.44
46:RB:311:LEU:N	46:RB:370:ASN:O	2.50	0.44
45:RC:5:ILE:HD12	45:RC:125:LEU:HD13	2.00	0.44
45:RC:226:ASN:ND2	45:RC:367:ASP:OD2	2.51	0.44
45:RE:171:ILE:HG22	45:RE:204:LEU:HB2	2.00	0.44
46:RH:73:MET:CE	46:RH:92:PHE:HB3	2.48	0.44
46:RH:103:LYS:HD3	46:RH:108:GLU:OE2	2.18	0.44
46:RJ:226:ASN:HA	46:RJ:229:VAL:HG22	2.00	0.44
46:RL:309:ARG:HB2	46:RL:309:ARG:HH11	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RM:331:SER:O	45:RM:335:ILE:HG12	2.18	0.44
45:RM:353:VAL:HG12	46:RN:177:ASP:HA	1.99	0.44
45:SC:261:PRO:HA	46:SD:394:PHE:CE1	2.52	0.44
46:SD:258:ILE:HG13	45:SE:407:TRP:CZ2	2.52	0.44
45:SE:277:SER:O	45:SE:281:ALA:N	2.51	0.44
45:SE:434:GLU:O	45:SE:437:ILE:HG22	2.17	0.44
46:SF:4:ILE:HG23	46:SF:131:GLN:HB3	2.00	0.44
46:SF:55:THR:HG23	46:TF:283:ALA:HA	1.99	0.44
46:SF:114:ASP:OD1	46:SF:115:SER:N	2.49	0.44
45:SG:254:GLU:OE2	45:SG:257:THR:OG1	2.32	0.44
45:SG:319:TYR:HB3	45:SG:323:VAL:HG11	2.00	0.44
45:SK:428:LEU:HG	45:SK:432:TYR:CE2	2.53	0.44
46:SL:9:GLY:CA	46:SL:66:MET:HB2	2.48	0.44
46:SL:103:LYS:O	46:SL:108:GLU:HG2	2.17	0.44
45:SM:91:GLN:HB3	45:SM:121:ARG:NE	2.33	0.44
45:SM:207:GLU:HB3	45:SM:304:LYS:NZ	2.32	0.44
45:SM:385:ALA:HA	45:SM:388:PHE:HD1	1.83	0.44
45:SM:402:ARG:HH11	45:SM:402:ARG:HA	1.83	0.44
46:TB:15:GLN:OE1	46:TB:226:ASN:ND2	2.51	0.44
46:TB:190:HIS:ND1	46:TB:411:ALA:HA	2.33	0.44
45:TE:70:LEU:HD11	45:TE:149:LEU:HD11	1.99	0.44
46:TH:186:THR:HG23	46:TH:415:MET:HE3	1.99	0.44
46:TH:303:ALA:HA	46:TH:376:GLU:OE2	2.18	0.44
46:TH:383:GLU:HA	46:TH:386:THR:HG22	1.99	0.44
46:TJ:164:MET:H	46:TJ:197:ASP:HB2	1.81	0.44
46:TJ:379:LYS:O	46:TJ:383:GLU:OE1	2.35	0.44
45:TM:387:VAL:HA	45:TM:390:ARG:HG2	1.99	0.44
46:TN:167:PHE:CE2	46:TN:233:MET:HG2	2.53	0.44
46:TN:273:LEU:N	46:TN:292:GLN:HE22	2.13	0.44
45:UC:377:MET:HE2	45:UC:379:SER:HB3	1.99	0.44
46:UD:116:VAL:HA	46:UD:119:VAL:HG12	2.00	0.44
46:UD:175:VAL:O	46:UD:175:VAL:HG23	2.17	0.44
46:UD:396:HIS:HA	46:UD:399:THR:OG1	2.18	0.44
46:UF:119:VAL:O	46:UF:123:GLU:OE1	2.36	0.44
45:UG:88:HIS:CD2	45:VE:280:LYS:HE3	2.53	0.44
45:UG:174:SER:HB2	45:UG:177:VAL:HB	2.00	0.44
46:UH:54:ALA:HB3	46:UH:58:ARG:HG2	2.00	0.44
46:UH:203:ASP:HB3	46:UH:205:GLU:OE1	2.18	0.44
46:UH:383:GLU:O	46:UH:386:THR:HG22	2.18	0.44
45:UI:21:TRP:CZ2	45:UI:65:ALA:HB2	2.52	0.44
45:UK:322:ASP:OD1	45:UK:373:ARG:NH1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UL:11:GLN:O	46:UL:15:GLN:HG2	2.18	0.44
46:UL:86:ARG:HE	46:UL:87:PRO:CD	2.29	0.44
46:UL:114:ASP:O	46:UL:117:LEU:HG	2.18	0.44
46:UL:137:HIS:O	46:UL:168:SER:HA	2.17	0.44
46:UL:199:CYS:HB3	46:UL:265:PHE:HD2	1.83	0.44
46:UL:372:THR:HA	46:UL:422:TYR:CE2	2.47	0.44
46:UN:65:LEU:H	46:UN:85:PHE:HZ	1.64	0.44
46:VB:20:PHE:O	46:VB:24:ILE:HG12	2.17	0.44
46:VB:309:ARG:H	46:VB:372:THR:HG1	1.62	0.44
46:VD:77:ARG:HD3	46:VD:90:PHE:CZ	2.53	0.44
46:VD:164:MET:HE1	46:VD:196:ALA:HA	1.98	0.44
46:VF:200:MET:HG2	46:VF:268:ILE:HG23	2.00	0.44
46:VF:266:PHE:CE1	46:VF:370:ASN:HB2	2.52	0.44
45:VG:75:ILE:HD12	45:VG:94:SER:HB2	1.99	0.44
45:VG:326:LYS:HG3	45:VG:327:ASP:N	2.33	0.44
46:VL:391:ARG:HA	46:VL:391:ARG:HD2	1.77	0.44
46:VN:68:LEU:HD13	46:VN:108:GLU:OE1	2.17	0.44
45:WA:183:GLU:N	45:WA:184:PRO:HD2	2.33	0.44
46:WB:213:ARG:O	46:WB:216:LYS:HE3	2.18	0.44
45:WC:124:LYS:HA	45:WC:127:ASP:OD2	2.18	0.44
45:WC:164:LYS:HD2	45:WC:164:LYS:HA	1.90	0.44
46:WD:248:SER:HA	46:WD:252:LYS:HD2	1.99	0.44
46:WD:325:GLU:HA	46:WD:328:GLU:CG	2.45	0.44
46:WF:138:SER:HA	46:WF:169:VAL:HG22	2.00	0.44
46:WF:406:MET:O	46:WF:410:GLU:HG2	2.18	0.44
46:WJ:217:LEU:HD11	46:WJ:220:PRO:HB3	1.99	0.44
45:WK:372:MET:O	45:WK:373:ARG:HD3	2.18	0.44
45:WM:288:VAL:HA	45:WM:291:ILE:HG12	2.00	0.44
46:WN:208:TYR:CZ	46:WN:225:LEU:HD11	2.53	0.44
46:WN:417:ASP:O	46:WN:420:SER:N	2.51	0.44
45:DC:340:THR:HG23	45:DC:341:ILE:HG13	1.99	0.44
6:0F:20:LEU:HD22	45:EE:362:VAL:CG1	2.46	0.44
7:0G:99:ARG:HB3	46:JN:359:LYS:NZ	2.32	0.44
9:0N:24:GLU:CG	45:IM:84:ARG:HH21	2.31	0.44
17:1F:144:TYR:CE1	46:GL:77:ARG:HG2	2.52	0.44
24:1P:302:LYS:NZ	46:TD:362:LYS:HG2	2.32	0.44
24:1P:362:LYS:HD3	46:TB:359:LYS:HA	1.99	0.44
26:1W:128:ARG:HH12	46:LF:219:THR:HG21	1.82	0.44
4:2D:99:ARG:NH1	45:EK:364:PRO:HA	2.32	0.44
20:2K:401:LYS:HE3	46:FH:56:GLY:O	2.18	0.44
25:2R:289:ASN:OD1	46:DH:217:LEU:HD13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4S:65:PHE:HE1	35:4S:74:LEU:HD21	1.83	0.44
35:4S:209:ARG:HH21	46:WD:119:VAL:CG1	2.14	0.44
36:5A:44:SER:N	36:5A:56:ILE:O	2.40	0.44
36:5C:102:TYR:HA	45:KI:393:HIS:CE1	2.53	0.44
37:5F:44:ARG:NH2	45:OC:285:GLN:HG2	2.33	0.44
37:5F:104:MET:HG3	37:5F:105:LYS:N	2.33	0.44
37:5F:147:GLN:O	37:5F:150:ILE:HG22	2.18	0.44
37:5H:54:LYS:HA	46:ON:227:HIS:CE1	2.53	0.44
34:5R:107:PRO:HA	46:BL:360:GLY:HA3	1.99	0.44
34:5R:380:ARG:HG3	34:5R:380:ARG:O	2.17	0.44
40:6G:268:VAL:HG12	40:6G:270:THR:N	2.27	0.44
40:6G:272:LYS:HB3	40:6G:274:ASN:ND2	2.33	0.44
41:6H:174:MET:N	41:6H:174:MET:SD	2.91	0.44
34:6R:470:PHE:O	46:EN:78:ALA:HA	2.18	0.44
34:7R:50:ASP:OD1	34:7R:51:PRO:HD2	2.18	0.44
34:7R:578:TYR:HE2	34:7R:580:LEU:HD13	1.82	0.44
45:AE:147:SER:HB2	45:AE:190:SER:HB3	2.00	0.44
46:AF:303:ALA:HA	46:AF:376:GLU:OE2	2.17	0.44
45:AG:107:HIS:ND1	45:AG:107:HIS:O	2.51	0.44
45:AG:304:LYS:HB2	45:AG:304:LYS:HE2	1.78	0.44
45:AG:401:LYS:HB2	45:AG:401:LYS:HE3	1.87	0.44
45:AK:97:GLU:HA	45:AK:97:GLU:OE1	2.18	0.44
46:AL:87:PRO:HA	46:AL:90:PHE:HD2	1.83	0.44
46:AL:154:LYS:HZ3	46:AL:154:LYS:HB2	1.83	0.44
45:AM:101:ASN:HD22	46:AN:252:LYS:HD2	1.83	0.44
45:AM:221:ARG:HH21	46:AN:321:MET:HA	1.83	0.44
45:BA:174:SER:C	45:BA:390:ARG:HH21	2.21	0.44
46:BB:38:GLY:HA3	46:BB:43:GLN:NE2	2.33	0.44
46:BB:49:VAL:HG12	46:BB:50:TYR:CD1	2.53	0.44
46:BB:65:LEU:HD22	46:BB:90:PHE:CE1	2.53	0.44
46:BB:267:MET:SD	46:BB:299:MET:HB3	2.58	0.44
45:BC:288:VAL:HA	45:BC:291:ILE:HG12	1.98	0.44
46:BD:257:LEU:HD11	46:BD:314:SER:HB2	2.00	0.44
45:BG:31:GLN:N	45:BG:31:GLN:OE1	2.50	0.44
45:BK:19:ALA:HA	45:BK:22:GLU:OE1	2.17	0.44
45:BK:339:ARG:NE	45:BK:339:ARG:HA	2.33	0.44
46:BL:175:VAL:HG22	46:BL:205:GLU:OE2	2.18	0.44
46:BL:268:ILE:HG22	46:BL:368:VAL:HG22	1.98	0.44
46:CB:322:SER:O	45:CC:221:ARG:NH2	2.50	0.44
45:CM:192:HIS:ND1	45:CM:424:ASP:OD2	2.51	0.44
46:CN:9:GLY:HA2	46:CN:66:MET:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:208:TYR:CE1	46:CN:225:LEU:HD11	2.52	0.44
46:DB:135:ILE:HG23	46:DB:166:THR:HG23	2.00	0.44
46:DB:167:PHE:HD2	46:DB:200:MET:HB2	1.83	0.44
46:DB:362:LYS:HE2	46:DB:362:LYS:HB3	1.69	0.44
46:DD:11:GLN:NE2	49:DD:501:GDP:O1A	2.32	0.44
45:DE:434:GLU:HA	45:DE:434:GLU:OE2	2.18	0.44
46:DF:11:GLN:HB3	46:DF:72:THR:HG21	1.98	0.44
46:DF:113:ILE:HA	46:DF:116:VAL:HG12	2.00	0.44
46:DF:281:TYR:CD1	46:DF:281:TYR:CB	2.84	0.44
46:DF:324:LYS:O	46:DF:328:GLU:HG2	2.17	0.44
46:DJ:254:ALA:O	46:DJ:258:ILE:HG12	2.17	0.44
46:DJ:406:MET:O	46:DJ:410:GLU:HG2	2.17	0.44
45:DK:127:ASP:OD1	45:DK:128:ASN:N	2.51	0.44
45:DK:329:ASN:HA	45:DK:332:ILE:HG12	2.00	0.44
46:DL:390:ARG:O	46:DL:392:LYS:NZ	2.51	0.44
45:DM:210:TYR:CE1	45:DM:227:LEU:HD11	2.45	0.44
45:EA:331:SER:O	45:EA:335:ILE:HG12	2.18	0.44
45:EC:82:THR:HG23	45:EC:83:TYR:CD1	2.52	0.44
45:EE:37:PRO:HB2	45:EE:39:ASP:H	1.82	0.44
46:EF:408:PHE:O	46:EF:412:GLU:OE1	2.35	0.44
45:EG:141:VAL:HG12	45:EG:171:ILE:O	2.18	0.44
45:EI:124:LYS:HE2	45:EI:124:LYS:HB2	1.81	0.44
46:EJ:69:GLU:HA	46:EJ:70:PRO:HD3	1.87	0.44
45:EK:429:GLU:O	45:EK:433:GLU:OE1	2.35	0.44
45:EM:52:PHE:CZ	45:EM:239:THR:HG21	2.53	0.44
45:EM:217:LEU:HD22	45:EM:367:ASP:HB3	1.98	0.44
46:EN:391:ARG:HD2	46:EN:391:ARG:HA	1.79	0.44
46:FB:257:LEU:HD11	46:FB:314:SER:HB2	1.99	0.44
46:FD:11:GLN:O	46:FD:15:GLN:HG2	2.18	0.44
46:FF:163:ILE:HD11	46:FF:251:ARG:HB2	1.99	0.44
46:FJ:100:ASN:HD22	46:FJ:398:TYR:HE1	1.65	0.44
46:FN:226:ASN:HA	46:FN:229:VAL:HG12	1.99	0.44
45:GA:21:TRP:HZ2	45:GA:65:ALA:HB2	1.83	0.44
46:GF:7:ILE:HD12	46:GF:64:ILE:HB	1.99	0.44
46:GJ:309:ARG:H	46:GJ:372:THR:HG22	1.83	0.44
45:GK:209:ILE:CG2	45:GK:227:LEU:HD22	2.48	0.44
46:GL:67:ASP:OD1	46:GL:68:LEU:N	2.50	0.44
45:GM:387:VAL:HA	45:GM:390:ARG:HG2	2.00	0.44
46:GN:20:PHE:O	46:GN:24:ILE:HG12	2.17	0.44
45:HA:261:PRO:HA	46:HD:394:PHE:CD2	2.53	0.44
46:HB:10:GLY:O	46:HB:14:ASN:ND2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HC:21:TRP:CZ2	45:HC:65:ALA:HB2	2.53	0.44
46:HD:149:THR:HG21	46:HD:191:GLN:HE21	1.83	0.44
46:HD:226:ASN:HD21	49:HD:501:GDP:HN1	1.65	0.44
46:HF:257:LEU:HA	46:HF:312:THR:HG21	2.00	0.44
46:HF:302:ALA:HB3	46:HF:377:MET:CE	2.48	0.44
45:HG:9:VAL:HG13	45:HG:139:ASN:HB3	2.00	0.44
45:HG:88:HIS:ND1	45:HG:89:PRO:HD2	2.33	0.44
45:HG:152:LEU:O	45:HG:155:GLU:HG3	2.18	0.44
46:HH:39:ASP:OD1	46:HH:40:SER:N	2.50	0.44
46:HH:316:LEU:HB2	46:HH:366:THR:HG22	1.99	0.44
45:HI:260:VAL:HG23	45:HI:265:ILE:O	2.18	0.44
45:HI:274:PRO:HG3	45:HI:286:LEU:HD12	1.99	0.44
45:HI:387:VAL:O	45:HI:391:LEU:HD23	2.18	0.44
45:HK:268:MET:HG3	45:HK:380:ASN:HB2	2.00	0.44
45:HK:317:MET:HE1	45:HK:332:ILE:HD11	1.99	0.44
46:HL:1:MET:O	46:HL:2:ARG:HG2	2.18	0.44
46:HL:45:GLU:HG3	46:HL:46:ARG:HG2	1.99	0.44
45:IC:384:ILE:O	45:IC:387:VAL:HG22	2.18	0.44
45:IE:11:GLN:NE2	47:IE:501:GTP:O3A	2.50	0.44
46:IF:345:ILE:HG23	46:IF:345:ILE:O	2.18	0.44
45:IG:358:GLN:OE1	45:IG:358:GLN:HA	2.18	0.44
46:IH:396:HIS:CD2	46:IH:397:TRP:HD1	2.36	0.44
46:IL:52:ASN:OD1	46:IL:62:ARG:NH2	2.50	0.44
46:IL:289:LEU:HD23	46:IL:365:VAL:HG23	1.98	0.44
46:IN:97:ALA:HB3	46:IN:143:THR:HB	2.00	0.44
45:JA:216:ASN:HD22	45:JA:275:ILE:HB	1.82	0.44
45:JA:350:GLY:HA2	46:JD:179:VAL:HG12	1.99	0.44
46:JD:148:GLY:O	46:JD:152:ILE:HG13	2.17	0.44
46:JD:207:LEU:HD13	46:JD:225:LEU:HB3	1.98	0.44
46:JF:3:GLU:HG3	46:JF:49:VAL:HA	2.00	0.44
45:JG:422:ARG:NH1	45:JG:422:ARG:O	2.51	0.44
45:JK:28:HIS:HE1	45:JK:243:ARG:HH11	1.66	0.44
45:JK:163:LYS:HE2	45:JK:163:LYS:HA	1.99	0.44
45:JM:276:ILE:HD11	45:JM:280:LYS:HG3	2.00	0.44
45:KE:306:ASP:HB3	45:KE:309:HIS:ND1	2.32	0.44
46:KF:19:LYS:HE2	46:KF:19:LYS:HB3	1.77	0.44
46:KF:116:VAL:HA	46:KF:119:VAL:HG12	2.00	0.44
46:KF:251:ARG:O	46:KF:255:VAL:HG23	2.18	0.44
45:KG:352:LYS:NZ	46:KJ:178:THR:HG22	2.33	0.44
45:KI:258:ASN:HD22	45:KI:352:LYS:HD3	1.83	0.44
45:KK:269:LEU:HD13	45:KK:301:MET:CE	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KN:33:THR:O	46:KN:58:ARG:NH1	2.51	0.44
45:LA:209:ILE:HD12	45:LA:227:LEU:HD22	2.00	0.44
45:LA:407:TRP:CZ3	46:LB:255:VAL:HA	2.52	0.44
46:LF:139:LEU:HD22	46:LF:188:SER:CB	2.47	0.44
45:LG:384:ILE:O	45:LG:387:VAL:HG22	2.18	0.44
46:LH:66:MET:HA	46:LH:91:VAL:HG23	2.00	0.44
46:LH:116:VAL:HA	46:LH:119:VAL:HG22	1.99	0.44
45:LI:30:ILE:HD12	45:LI:36:MET:HA	1.98	0.44
46:LL:298:ASN:O	46:LL:298:ASN:ND2	2.51	0.44
45:LM:223:THR:HG22	45:LM:224:TYR:N	2.33	0.44
45:MA:224:TYR:HD1	45:MA:227:LEU:HD12	1.82	0.44
45:MA:387:VAL:HA	45:MA:390:ARG:HG2	2.00	0.44
46:MB:238:CYS:SG	46:MB:239:CYS:N	2.91	0.44
45:MC:107:HIS:ND1	45:MC:107:HIS:O	2.51	0.44
46:MD:7:ILE:CD1	46:MD:64:ILE:HB	2.48	0.44
45:ME:98:ASP:OD1	45:ME:99:ALA:N	2.51	0.44
46:MF:254:ALA:O	46:MF:258:ILE:HG12	2.18	0.44
45:MG:384:ILE:O	45:MG:387:VAL:HG22	2.18	0.44
46:MH:114:ASP:OD1	46:MH:115:SER:N	2.51	0.44
46:MH:171:PRO:HB2	46:MH:181:GLU:OE1	2.18	0.44
45:MK:102:ASN:ND2	45:MK:105:ARG:HG3	2.33	0.44
45:NA:77:GLU:HA	45:NA:80:THR:HG1	1.82	0.44
45:NA:107:HIS:O	45:NA:107:HIS:ND1	2.51	0.44
46:NB:32:PRO:HB3	46:NB:81:PHE:HD1	1.82	0.44
46:NB:101:TRP:HB2	46:NB:184:ASN:HB3	2.00	0.44
45:NC:203:MET:O	45:NC:204:LEU:HD22	2.18	0.44
45:NE:408:TYR:O	45:NE:413:MET:HB3	2.17	0.44
46:NH:190:HIS:CD2	46:NH:414:ASN:HD22	2.36	0.44
46:NJ:45:GLU:OE1	46:NJ:46:ARG:HD2	2.18	0.44
46:NJ:345:ILE:HG23	46:NJ:348:ASN:ND2	2.33	0.44
45:OA:71:GLU:HA	45:OA:72:PRO:HD3	1.89	0.44
45:OE:138:PHE:CE2	45:OE:169:PHE:HD2	2.36	0.44
46:OJ:299:MET:SD	46:OJ:299:MET:N	2.91	0.44
45:OK:358:GLN:NE2	45:OK:359:PRO:O	2.51	0.44
45:OM:194:LEU:HB2	45:OM:198:THR:OG1	2.18	0.44
46:ON:404:ASP:N	46:ON:404:ASP:OD1	2.51	0.44
45:PA:419:SER:O	45:PA:423:GLU:OE1	2.36	0.44
46:PB:131:GLN:NE2	46:PB:251:ARG:HG2	2.32	0.44
45:PC:343:PHE:CZ	45:PC:351:PHE:HE1	2.36	0.44
46:PD:326:VAL:O	46:PD:329:GLN:HG3	2.17	0.44
45:PE:263:PRO:HD3	46:PH:396:HIS:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:272:TYR:HD2	45:PE:275:ILE:HD11	1.83	0.44
46:PF:139:LEU:HA	46:PF:145:SER:HB3	1.99	0.44
45:PG:324:VAL:CG1	45:PG:326:LYS:HG2	2.47	0.44
45:PG:427:ALA:HA	45:PG:430:LYS:HG2	2.00	0.44
45:PI:189:LEU:HD11	45:PI:418:PHE:HE2	1.83	0.44
46:PL:74:ASP:HA	46:PL:77:ARG:HE	1.83	0.44
46:PL:379:LYS:HE3	46:PL:379:LYS:HB3	1.83	0.44
45:PM:175:PRO:HA	45:PM:390:ARG:CZ	2.47	0.44
46:PN:6:HIS:CD2	46:PN:8:GLN:HG3	2.52	0.44
45:QA:265:ILE:HG13	45:QA:265:ILE:O	2.18	0.44
46:QB:69:GLU:HA	46:QB:70:PRO:HD3	1.85	0.44
45:QC:88:HIS:HB3	45:QC:91:GLN:HG2	1.99	0.44
46:QD:238:CYS:SG	46:QD:316:LEU:HD21	2.58	0.44
46:QH:148:GLY:O	46:QH:152:ILE:HG12	2.17	0.44
46:QJ:45:GLU:OE1	46:QJ:46:ARG:HG2	2.18	0.44
46:QJ:69:GLU:CD	46:QJ:71:GLY:H	2.21	0.44
45:QK:99:ALA:HB3	45:QK:145:THR:HB	1.99	0.44
45:QK:118:CYS:O	45:QK:122:ILE:HG12	2.17	0.44
46:QL:345:ILE:O	46:QL:348:ASN:ND2	2.50	0.44
45:QM:397:LEU:HD12	45:QM:398:MET:N	2.33	0.44
46:QN:116:VAL:HA	46:QN:119:VAL:HG12	2.00	0.44
46:RB:217:LEU:HD23	46:RB:219:THR:H	1.82	0.44
46:RF:190:HIS:CE1	46:RF:414:ASN:HD22	2.36	0.44
45:RK:184:PRO:O	45:RK:188:ILE:HG12	2.17	0.44
46:RL:66:MET:HG3	46:RL:91:VAL:CG2	2.48	0.44
46:RL:330:MET:HA	46:RL:333:VAL:HG12	1.99	0.44
46:SD:6:HIS:HE1	46:SD:8:GLN:CG	2.31	0.44
46:SD:383:GLU:HA	46:SD:386:THR:HG22	2.00	0.44
46:SF:8:GLN:OE1	46:SF:17:GLY:HA3	2.18	0.44
46:SF:164:MET:O	46:SF:197:ASP:HB2	2.18	0.44
46:SH:342:VAL:HG13	46:SH:345:ILE:HG22	2.00	0.44
46:SJ:136:THR:HG22	46:SJ:167:PHE:HB2	2.00	0.44
45:SK:227:LEU:H	45:SK:227:LEU:HD12	1.83	0.44
45:SK:319:TYR:HE1	45:SK:328:VAL:HG22	1.82	0.44
45:SK:430:LYS:HA	45:SK:433:GLU:CD	2.38	0.44
46:SL:311:LEU:N	46:SL:370:ASN:O	2.51	0.44
46:SL:379:LYS:HD3	46:SL:419:VAL:HG11	1.99	0.44
45:SM:115:VAL:HG23	45:SM:153:LEU:HD23	2.00	0.44
46:TB:241:ARG:HG2	46:TB:242:PHE:CD2	2.53	0.44
46:TB:253:LEU:O	46:TB:257:LEU:HB2	2.17	0.44
46:TB:342:VAL:HG13	46:TB:345:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TC:88:HIS:CD2	45:UC:280:LYS:NZ	2.86	0.44
46:TF:69:GLU:HA	46:TF:70:PRO:HD3	1.86	0.44
46:TF:287:PRO:HA	46:TF:290:THR:HG22	2.00	0.44
45:TK:171:ILE:HG23	45:TK:204:LEU:O	2.17	0.44
46:TL:174:LYS:HZ1	46:TL:380:ARG:NH1	2.15	0.44
46:UB:5:VAL:HA	46:UB:62:ARG:HG3	1.98	0.44
46:UB:375:GLN:HG3	46:UB:423:GLN:NE2	2.33	0.44
45:UG:145:THR:OG1	47:UG:501:GTP:O1B	2.36	0.44
45:UM:319:TYR:CD2	45:UM:323:VAL:HG21	2.53	0.44
46:UN:326:VAL:O	46:UN:330:MET:HG2	2.18	0.44
45:VC:174:SER:HB2	45:VC:177:VAL:O	2.18	0.44
45:VE:220:GLU:OE2	45:VE:221:ARG:HB2	2.18	0.44
46:VF:184:ASN:OD1	46:VF:185:ALA:N	2.51	0.44
45:VG:209:ILE:HD12	45:VG:209:ILE:H	1.83	0.44
46:VH:97:ALA:HB3	46:VH:143:THR:HG22	2.00	0.44
46:VH:286:VAL:HG23	46:VH:287:PRO:HD3	2.00	0.44
45:VI:177:VAL:HG23	45:VI:207:GLU:OE1	2.18	0.44
45:VK:230:LEU:HD11	45:VK:272:TYR:HD2	1.83	0.44
46:VL:284:LEU:HA	46:VL:288:GLU:OE2	2.17	0.44
46:VN:49:VAL:HG12	46:VN:50:TYR:CD2	2.53	0.44
46:VN:207:LEU:HD12	46:VN:228:LEU:HD11	2.00	0.44
46:WB:113:ILE:HD12	46:WB:150:LEU:CD1	2.47	0.44
46:WB:391:ARG:HD2	46:WB:391:ARG:HA	1.78	0.44
45:WC:342:GLN:N	45:WC:342:GLN:OE1	2.50	0.44
46:WD:39:ASP:OD1	46:WD:40:SER:N	2.50	0.44
46:WF:189:VAL:HG13	46:WF:415:MET:HE3	2.00	0.44
45:WG:33:ASP:OD1	45:WG:35:GLN:NE2	2.41	0.44
45:WG:205:ASP:OD1	45:WG:303:ALA:HA	2.18	0.44
45:WG:231:ILE:O	45:WG:235:ILE:HG12	2.18	0.44
45:WI:10:GLY:O	45:WI:14:ILE:HG12	2.17	0.44
45:WI:88:HIS:HB3	45:WI:91:GLN:HG2	2.00	0.44
46:WJ:153:SER:HB2	46:WJ:191:GLN:HE21	1.82	0.44
11:OS:277:GLN:NE2	46:WB:122:LYS:HE3	2.33	0.43
19:1J:48:TYR:OH	46:HD:41:ASP:OD1	2.35	0.43
21:1L:43:GLN:OE1	46:BJ:357:PRO:HG2	2.17	0.43
21:1L:283:ARG:NH1	46:BH:357:PRO:O	2.49	0.43
15:1X:45:GLN:NE2	45:ME:282:TYR:CG	2.86	0.43
23:2O:199:LYS:NZ	45:UK:56:THR:O	2.50	0.43
24:2P:439:HIS:HD2	45:TK:282:TYR:CE2	2.36	0.43
33:4F:8:TYR:CZ	45:GI:84:ARG:HB2	2.53	0.43
35:4S:98:TYR:HE2	35:4S:127:LEU:HD22	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4S:192:MET:HG2	46:AD:424:GLN:HG3	2.00	0.43
36:5B:146:VAL:HG13	36:5B:147:TYR:CD1	2.51	0.43
37:5E:135:LYS:HG3	37:5E:136:LEU:HD22	2.00	0.43
39:6F:21:VAL:HG23	39:6F:23:ILE:HG22	2.00	0.43
10:6Q:76:LEU:HD23	10:6Q:77:VAL:N	2.33	0.43
34:6R:12:LEU:HB3	34:6R:13:PRO:CD	2.48	0.43
34:7R:107:PRO:HA	46:BD:360:GLY:HA3	1.99	0.43
34:7R:369:ILE:HD12	34:7R:370:PRO:HD2	1.99	0.43
43:8P:157:UNK:O	46:QH:276:ARG:NH2	2.50	0.43
46:AB:404:ASP:N	46:AB:404:ASP:OD1	2.51	0.43
46:AD:341:PHE:HD2	46:AD:348:ASN:HD21	1.66	0.43
45:AE:221:ARG:NE	46:AF:325:GLU:OE1	2.51	0.43
45:AE:304:LYS:HB2	45:AE:304:LYS:HE2	1.83	0.43
46:AH:21:TRP:CZ2	46:AH:63:ALA:HB2	2.53	0.43
46:AH:179:VAL:O	46:AH:388:MET:HE1	2.18	0.43
46:AH:213:ARG:HE	46:AH:213:ARG:HB2	1.68	0.43
46:AH:318:ARG:HD3	46:AH:358:PRO:HD3	2.00	0.43
45:AK:223:THR:HG23	45:AK:225:THR:H	1.83	0.43
45:AK:434:GLU:O	45:AK:437:ILE:HG12	2.18	0.43
46:AL:156:ARG:HH22	46:AL:197:ASP:CG	2.21	0.43
46:AN:208:TYR:HE2	46:AN:225:LEU:HD21	1.83	0.43
45:BA:60:LYS:NZ	45:BA:86:LEU:HA	2.33	0.43
45:BA:100:ALA:HB1	46:BB:252:LYS:HA	1.99	0.43
46:BD:3:GLU:CD	46:BD:127:CYS:HB2	2.39	0.43
46:BH:28:HIS:C	46:BH:43:GLN:HE21	2.21	0.43
45:BI:3:GLU:OE2	45:BI:130:THR:N	2.50	0.43
46:BJ:137:HIS:NE2	46:BJ:166:THR:OG1	2.49	0.43
45:BM:208:ALA:O	45:BM:212:ILE:HG12	2.18	0.43
45:CA:167:LEU:HD11	45:CA:252:ILE:HD11	1.99	0.43
45:CA:317:MET:N	45:CA:317:MET:SD	2.90	0.43
46:CD:252:LYS:HG2	45:CE:100:ALA:HA	2.00	0.43
45:CG:346:TRP:CG	46:CH:391:ARG:HG3	2.53	0.43
45:CI:301:MET:HE1	45:CI:307:PRO:HG3	2.00	0.43
45:DA:328:VAL:HG11	45:DA:353:VAL:HG21	1.99	0.43
46:DB:6:HIS:CE1	46:DB:8:GLN:HB3	2.53	0.43
46:DB:55:THR:HG23	46:EB:283:ALA:HA	2.00	0.43
46:DD:154:LYS:HA	46:DD:157:GLU:OE2	2.18	0.43
46:DD:220:PRO:HG2	45:DC:326:LYS:HE2	2.00	0.43
46:DH:294:PHE:HE1	46:DH:333:VAL:HG11	1.83	0.43
46:DJ:22:GLU:HG2	46:DJ:81:PHE:CD1	2.53	0.43
46:DJ:54:ALA:HA	46:EJ:283:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EB:324:LYS:HD3	45:EC:222:PRO:CG	2.48	0.43
46:EF:148:GLY:O	46:EF:152:ILE:HG13	2.18	0.43
45:EG:164:LYS:HD2	45:EG:164:LYS:HA	1.79	0.43
45:EG:318:MET:HB2	45:EG:376:CYS:SG	2.58	0.43
46:EH:420:SER:O	46:EH:423:GLN:HG3	2.17	0.43
45:EI:332:ILE:HD12	45:EI:351:PHE:CD2	2.52	0.43
46:EJ:391:ARG:HD2	46:EJ:391:ARG:HA	1.79	0.43
46:EL:12:CYS:SG	46:EL:13:GLY:N	2.90	0.43
45:FA:98:ASP:O	46:FB:251:ARG:NH2	2.51	0.43
45:FA:119:LEU:HD11	45:FA:156:ARG:HG2	2.00	0.43
45:FA:434:GLU:O	45:FA:437:ILE:HG12	2.18	0.43
46:FF:65:LEU:HB3	46:FF:73:MET:HE1	2.00	0.43
45:FG:434:GLU:O	45:FG:437:ILE:HG22	2.18	0.43
46:FJ:173:PRO:HD2	46:FJ:174:LYS:NZ	2.33	0.43
45:FM:141:VAL:HG11	45:FM:172:TYR:CD1	2.53	0.43
45:GA:71:GLU:HA	45:GA:72:PRO:HD3	1.91	0.43
46:GF:16:ILE:HD12	46:GF:229:VAL:HG11	2.00	0.43
45:GG:326:LYS:HZ3	46:GJ:208:TYR:HB3	1.83	0.43
46:GN:140:GLY:HA2	46:GN:171:PRO:HG3	2.00	0.43
45:HA:104:ALA:HB1	45:HA:411:GLU:OE1	2.18	0.43
45:HA:183:GLU:N	45:HA:184:PRO:HD2	2.33	0.43
46:HF:238:CYS:SG	46:HF:239:CYS:N	2.90	0.43
45:HG:89:PRO:HD3	45:IG:280:LYS:HZ3	1.81	0.43
45:HG:91:GLN:HB3	45:HG:121:ARG:HH22	1.82	0.43
45:HG:339:ARG:HD3	45:HG:339:ARG:O	2.18	0.43
46:HH:69:GLU:CD	46:HH:71:GLY:H	2.21	0.43
46:HH:116:VAL:HA	46:HH:119:VAL:HG12	2.00	0.43
46:HH:399:THR:HA	46:HH:403:MET:O	2.18	0.43
45:HI:105:ARG:HG2	45:HI:411:GLU:OE2	2.18	0.43
45:HI:264:ARG:HG3	45:HI:264:ARG:NH1	2.33	0.43
46:HJ:239:CYS:SG	46:HJ:247:ASN:HA	2.58	0.43
45:HK:107:HIS:ND1	45:HK:107:HIS:O	2.51	0.43
46:HL:116:VAL:O	46:HL:120:VAL:HG12	2.17	0.43
45:IA:116:ASP:OD1	45:IA:117:LEU:N	2.48	0.43
45:IA:414:GLU:HG2	45:IA:417:GLU:HG2	2.00	0.43
45:IC:184:PRO:O	45:IC:188:ILE:HG12	2.18	0.43
45:IE:401:LYS:HB2	45:IE:401:LYS:HE3	1.66	0.43
45:IG:280:LYS:CE	45:IG:283:HIS:HB2	2.47	0.43
46:IJ:28:HIS:C	46:IJ:43:GLN:HE21	2.22	0.43
46:IJ:280:GLN:HG2	46:IJ:281:TYR:CD2	2.53	0.43
45:IK:172:TYR:OH	45:IK:191:THR:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IM:178:SER:OG	46:IN:347:ASN:OD1	2.31	0.43
45:IM:214:ARG:NE	45:IM:220:GLU:OE1	2.50	0.43
45:IM:241:SER:OG	45:IM:250:VAL:O	2.25	0.43
45:IM:387:VAL:HA	45:IM:390:ARG:HG2	2.00	0.43
46:IN:238:CYS:SG	46:IN:318:ARG:NH1	2.91	0.43
45:JA:223:THR:HG23	45:JA:225:THR:H	1.83	0.43
45:JC:76:ASP:O	45:JC:80:THR:HG23	2.18	0.43
45:JC:121:ARG:HA	45:JC:121:ARG:NE	2.32	0.43
45:JC:141:VAL:HG22	45:JC:187:SER:HA	2.00	0.43
45:JE:231:ILE:O	45:JE:235:ILE:HG12	2.17	0.43
46:JH:256:ASN:O	46:JH:312:THR:HG21	2.18	0.43
45:JI:175:PRO:HG3	45:JI:390:ARG:NH1	2.33	0.43
46:JJ:178:THR:HG22	46:JJ:180:VAL:H	1.83	0.43
46:JJ:294:PHE:HE2	46:JJ:333:VAL:HG11	1.83	0.43
45:JK:286:LEU:N	45:JK:290:GLU:OE2	2.51	0.43
46:JL:145:SER:HB2	46:JL:188:SER:OG	2.17	0.43
46:JN:53:GLU:N	46:JN:53:GLU:OE2	2.51	0.43
46:KB:105:HIS:CE1	46:KB:150:LEU:HD12	2.52	0.43
45:KC:69:ASP:OD2	45:KC:70:LEU:N	2.50	0.43
45:KC:322:ASP:OD1	45:KC:373:ARG:NH1	2.51	0.43
46:KD:88:ASP:OD2	46:KD:89:ASN:N	2.51	0.43
45:KE:36:MET:HG2	45:KE:61:HIS:HE1	1.83	0.43
45:KE:145:THR:HG22	47:KE:501:GTP:PG	2.58	0.43
45:KE:296:PHE:HE2	45:KE:335:ILE:HG21	1.82	0.43
46:KF:169:VAL:HG23	46:KF:169:VAL:O	2.18	0.43
46:KF:362:LYS:HE3	46:KF:362:LYS:HB3	1.68	0.43
46:KH:423:GLN:NE2	46:KH:423:GLN:O	2.51	0.43
46:KJ:392:LYS:HG2	46:KJ:395:LEU:HD12	1.99	0.43
45:KM:81:GLY:O	45:KM:84:ARG:HG3	2.18	0.43
45:KM:175:PRO:HG2	45:KM:176:GLN:OE1	2.18	0.43
45:KM:331:SER:O	45:KM:335:ILE:HG12	2.17	0.43
46:KN:182:PRO:HG2	46:KN:388:MET:HE2	1.99	0.43
45:LA:269:LEU:HB2	45:LA:301:MET:HE2	2.00	0.43
45:LA:338:LYS:HZ2	45:LA:339:ARG:N	2.16	0.43
46:LB:285:THR:HB	46:LB:287:PRO:HD2	2.00	0.43
46:LD:68:LEU:HD13	46:LD:147:MET:HE1	2.00	0.43
45:LG:36:MET:HB3	45:LG:40:LYS:HE2	2.00	0.43
45:LG:188:ILE:HG13	45:LG:189:LEU:N	2.33	0.43
46:LH:163:ILE:HD13	46:LH:250:LEU:HG	2.00	0.43
45:LI:169:PHE:HB3	45:LI:204:LEU:HD11	2.00	0.43
46:LJ:257:LEU:HD23	46:LJ:266:PHE:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LL:1:MET:O	46:LL:2:ARG:HG2	2.18	0.43
45:MA:398:MET:SD	46:MB:345:ILE:HD12	2.58	0.43
45:MC:21:TRP:CH2	45:MC:63:PRO:HB3	2.53	0.43
46:MD:132:GLY:HA3	46:MD:163:ILE:HG22	2.00	0.43
45:ME:55:GLU:HA	45:ME:55:GLU:OE1	2.18	0.43
45:MI:231:ILE:O	45:MI:235:ILE:HG12	2.18	0.43
46:ML:172:SER:HB3	46:ML:203:ASP:OD2	2.18	0.43
46:ML:293:MET:HE2	46:ML:367:PHE:CD1	2.52	0.43
45:MM:109:THR:HB	45:MM:110:ILE:HD12	2.00	0.43
45:NA:319:TYR:CD1	45:NA:375:VAL:HG22	2.53	0.43
46:NB:47:ILE:HG21	46:NB:59:TYR:CD1	2.52	0.43
46:ND:183:TYR:CE1	46:ND:388:MET:HB3	2.50	0.43
46:NF:310:TYR:CD1	46:NF:371:SER:HB2	2.53	0.43
45:NG:358:GLN:OE1	45:NG:359:PRO:HD2	2.17	0.43
46:NJ:54:ALA:HB3	46:NJ:58:ARG:HG2	2.00	0.43
45:NK:211:ASP:O	45:NK:214:ARG:HG3	2.18	0.43
45:NM:156:ARG:HA	45:NM:156:ARG:CZ	2.49	0.43
45:NM:276:ILE:HD13	45:NM:371:VAL:HG21	2.00	0.43
46:NN:285:THR:OG1	46:NN:287:PRO:HD2	2.18	0.43
45:OA:258:ASN:ND2	45:OA:352:LYS:HE3	2.33	0.43
45:OC:207:GLU:OE2	45:OC:304:LYS:HD2	2.18	0.43
45:OE:248:LEU:HD13	45:OE:355:ILE:HD13	2.00	0.43
46:OF:219:THR:O	46:OF:219:THR:HG23	2.18	0.43
45:OI:34:GLY:O	45:OI:60:LYS:HA	2.18	0.43
46:OJ:324:LYS:O	46:OJ:328:GLU:OE1	2.35	0.43
45:OK:285:GLN:HB2	45:OK:290:GLU:OE2	2.18	0.43
45:OK:331:SER:O	45:OK:335:ILE:HG12	2.18	0.43
46:OL:318:ARG:HG2	46:OL:357:PRO:HA	2.00	0.43
45:OM:390:ARG:HG3	45:OM:391:LEU:N	2.33	0.43
45:OM:394:LYS:O	45:OM:397:LEU:HG	2.18	0.43
45:PA:118:CYS:SG	45:PA:153:LEU:HD11	2.58	0.43
45:PA:267:PHE:HD2	45:PA:388:PHE:HZ	1.66	0.43
46:PB:63:ALA:O	46:PB:89:ASN:ND2	2.35	0.43
46:PD:294:PHE:CD2	46:PD:333:VAL:HG21	2.53	0.43
45:PE:224:TYR:HB2	46:PF:245:GLN:NE2	2.33	0.43
45:PE:427:ALA:HA	45:PE:430:LYS:HG2	2.00	0.43
46:PF:12:CYS:O	46:PF:16:ILE:HG12	2.18	0.43
46:PF:304:ASP:OD1	46:PF:306:ARG:HG2	2.18	0.43
46:PF:344:TRP:HB3	46:PF:430:ALA:HB2	2.00	0.43
45:PG:434:GLU:O	45:PG:437:ILE:HG12	2.18	0.43
46:PH:380:ARG:O	46:PH:384:GLN:OE1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PI:55:GLU:HG3	45:PI:57:GLY:H	1.82	0.43
45:PI:152:LEU:O	45:PI:155:GLU:HG3	2.18	0.43
45:PK:98:ASP:OD1	45:PK:99:ALA:N	2.51	0.43
46:PL:375:GLN:HG3	46:PL:379:LYS:HZ1	1.83	0.43
45:PM:111:GLY:O	45:PM:115:VAL:HG13	2.17	0.43
45:QA:401:LYS:HB2	45:QA:401:LYS:HE3	1.73	0.43
46:QB:55:THR:HG23	46:RB:283:ALA:HA	2.00	0.43
45:QC:265:ILE:HG12	45:QC:432:TYR:CE1	2.52	0.43
45:QC:271:SER:OG	45:QC:301:MET:HG2	2.18	0.43
45:QI:171:ILE:HG22	45:QI:204:LEU:HB2	1.99	0.43
46:QJ:51:TYR:HB3	46:QJ:59:TYR:HD2	1.83	0.43
45:QK:31:GLN:HG2	45:QK:35:GLN:H	1.83	0.43
45:QK:261:PRO:HA	46:QL:394:PHE:HD1	1.83	0.43
46:QL:66:MET:HE2	46:QL:147:MET:HG2	2.00	0.43
46:RB:8:GLN:OE1	46:RB:17:GLY:HA3	2.18	0.43
45:RE:52:PHE:HZ	45:RE:239:THR:HG21	1.82	0.43
45:RE:97:GLU:OE1	45:RE:105:ARG:NH2	2.35	0.43
45:RE:298:PRO:HA	45:RE:301:MET:HG2	2.00	0.43
46:RN:91:VAL:HG21	46:RN:116:VAL:HB	2.00	0.43
45:SC:174:SER:HB2	45:SC:177:VAL:O	2.18	0.43
45:SC:229:ARG:HH12	45:SC:366:GLY:CA	2.24	0.43
45:SC:280:LYS:HA	45:SC:283:HIS:ND1	2.32	0.43
46:SD:266:PHE:CE1	46:SD:370:ASN:HB2	2.53	0.43
45:SE:414:GLU:CD	45:SE:416:GLY:H	2.22	0.43
46:SF:135:ILE:HG13	46:SF:152:ILE:HD11	2.00	0.43
45:SG:208:ALA:O	45:SG:212:ILE:HG12	2.18	0.43
46:SH:31:ASP:HB2	46:SH:32:PRO:HD2	2.00	0.43
46:SH:113:ILE:HG12	46:SH:117:LEU:HG	1.99	0.43
46:TB:64:ILE:HA	46:TB:89:ASN:HB3	2.00	0.43
45:TC:115:VAL:O	45:TC:119:LEU:HG	2.18	0.43
46:TF:165:GLU:OE2	46:TF:250:LEU:HD13	2.18	0.43
45:TG:402:ARG:NH2	45:TG:415:GLU:OE1	2.50	0.43
46:TH:11:GLN:O	46:TH:15:GLN:HG2	2.18	0.43
46:TH:322:SER:HB2	45:TI:222:PRO:O	2.17	0.43
46:TN:133:PHE:HB2	46:TN:164:MET:SD	2.57	0.43
45:UC:268:MET:HB2	45:UC:379:SER:O	2.17	0.43
45:UE:427:ALA:HA	45:UE:430:LYS:HG2	1.99	0.43
45:UI:386:GLU:O	45:UI:390:ARG:HG2	2.18	0.43
46:UL:286:VAL:HG23	46:UL:287:PRO:HD3	1.99	0.43
45:VA:171:ILE:HG23	45:VA:204:LEU:O	2.18	0.43
45:VA:339:ARG:HG3	45:VA:340:THR:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VB:380:ARG:NH1	46:VB:381:VAL:HG23	2.33	0.43
45:VC:261:PRO:HG3	46:VF:394:PHE:CZ	2.53	0.43
45:VC:320:ARG:HB2	45:VC:358:GLN:O	2.18	0.43
45:VE:152:LEU:O	45:VE:156:ARG:HG2	2.17	0.43
45:VE:319:TYR:CE2	45:VE:328:VAL:HG13	2.52	0.43
45:VG:223:THR:HB	46:VH:322:SER:CB	2.48	0.43
46:VJ:317:PHE:HB2	46:VJ:353:ILE:HD13	2.00	0.43
46:VN:262:ARG:HA	46:VN:262:ARG:NE	2.32	0.43
45:WA:18:ASN:O	45:WA:22:GLU:OE1	2.36	0.43
45:WA:276:ILE:HD11	45:WA:280:LYS:HG3	1.99	0.43
46:WF:145:SER:HB3	46:WF:188:SER:HB3	1.99	0.43
46:WF:308:GLY:HA2	46:WF:426:GLN:NE2	2.33	0.43
46:WF:310:TYR:CD1	46:WF:371:SER:HB2	2.53	0.43
46:WF:325:GLU:HA	46:WF:328:GLU:HG3	2.00	0.43
45:WG:319:TYR:CD2	45:WG:328:VAL:HG22	2.52	0.43
45:WI:404:PHE:CD1	46:WJ:259:PRO:HA	2.53	0.43
46:WJ:46:ARG:NE	46:WJ:46:ARG:HA	2.33	0.43
46:WJ:213:ARG:HA	46:WJ:216:LYS:NZ	2.32	0.43
46:WL:16:ILE:HD12	46:WL:229:VAL:HG11	2.00	0.43
46:WL:350:LYS:HD3	46:WL:351:SER:N	2.33	0.43
45:CE:8:HIS:CD2	45:CE:138:PHE:HD2	2.36	0.43
45:CE:60:LYS:NZ	45:CE:86:LEU:HA	2.33	0.43
45:DC:188:ILE:HG13	45:DC:425:LEU:HD11	2.00	0.43
1:0A:127:ASN:HD21	46:AB:279:GLN:HE22	1.65	0.43
13:0U:193:LYS:HE3	46:WB:79:GLY:HA3	2.00	0.43
4:1D:36:TYR:O	45:DG:84:ARG:NH2	2.50	0.43
4:1D:81:ARG:NH2	46:EF:357:PRO:HG2	2.30	0.43
8:1H:172:GLN:OE1	46:HJ:276:ARG:HG2	2.17	0.43
18:1I:79:GLY:HA2	46:JD:276:ARG:CD	2.49	0.43
24:1P:362:LYS:NZ	46:TB:357:PRO:HG2	2.33	0.43
16:2B:258:LYS:HG3	45:KK:279:GLU:HB3	2.00	0.43
5:2E:53:LYS:HE2	34:5R:382:TYR:HE1	1.83	0.43
31:2I:51:ALA:H	46:GH:306:ARG:NH1	2.15	0.43
25:2R:291:GLY:HA3	46:DH:276:ARG:HB2	1.99	0.43
14:2V:22:ARG:HH22	45:ME:422:ARG:HG3	1.82	0.43
30:3H:194:LYS:NZ	46:AH:39:ASP:OD2	2.52	0.43
27:4C:239:LYS:NZ	46:JN:38:GLY:O	2.33	0.43
15:4X:43:GLU:H	15:4X:43:GLU:CD	2.21	0.43
36:5B:163:ALA:HB1	45:NG:279:GLU:O	2.18	0.43
36:5D:94:MET:H	45:KM:430:LYS:HZ2	1.63	0.43
10:5Q:88:THR:HG22	10:5Q:106:SER:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:5R:149:GLN:HB3	34:5R:159:TYR:CD1	2.53	0.43
34:5R:278:TYR:HE2	34:5R:331:PRO:HG3	1.83	0.43
34:5R:284:THR:HB	34:5R:306:ARG:NH2	2.32	0.43
34:6R:583:GLN:NE2	34:6R:587:THR:OG1	2.52	0.43
34:7R:207:ASP:O	34:7R:210:GLU:HG3	2.18	0.43
45:AA:212:ILE:HD11	45:AA:300:ASN:HA	2.00	0.43
46:AB:3:GLU:HG3	46:AB:62:ARG:NH1	2.33	0.43
46:AB:183:TYR:O	46:AB:187:LEU:HD23	2.19	0.43
46:AD:201:VAL:HG22	46:AD:266:PHE:O	2.18	0.43
46:AF:86:ARG:HB2	46:AF:89:ASN:OD1	2.17	0.43
45:AG:240:ALA:O	45:AG:244:PHE:HB2	2.17	0.43
46:AJ:233:MET:O	46:AJ:236:VAL:HG12	2.17	0.43
46:AL:198:GLU:OE2	46:AL:254:ALA:HB2	2.19	0.43
46:AN:309:ARG:H	46:AN:426:GLN:HE22	1.66	0.43
45:BA:389:SER:O	45:BA:393:HIS:ND1	2.37	0.43
46:BD:309:ARG:NH2	46:BD:426:GLN:O	2.41	0.43
45:BE:22:GLU:O	45:BE:26:LEU:HD23	2.18	0.43
45:BE:399:TYR:OH	45:BE:415:GLU:OE2	2.36	0.43
45:BK:171:ILE:HG23	45:BK:204:LEU:O	2.18	0.43
46:BL:211:CYS:SG	46:BL:220:PRO:HB3	2.58	0.43
45:BM:147:SER:HB2	45:BM:190:SER:HB3	2.00	0.43
45:BM:177:VAL:HB	45:BM:207:GLU:OE2	2.19	0.43
45:BM:372:MET:SD	45:BM:372:MET:N	2.92	0.43
46:BN:213:ARG:NE	46:BN:297:LYS:HE3	2.32	0.43
45:CC:66:VAL:HG11	45:CC:122:ILE:HD11	2.00	0.43
45:CG:182:VAL:HG22	45:CG:185:TYR:HB2	2.00	0.43
46:CH:121:ARG:O	46:CH:125:GLU:OE1	2.36	0.43
45:CK:133:GLN:HB2	45:CK:252:ILE:HD11	1.99	0.43
45:CK:149:LEU:O	45:CK:153:LEU:HD23	2.18	0.43
45:CM:387:VAL:HG12	45:CM:390:ARG:NH1	2.33	0.43
46:DB:238:CYS:SG	46:DB:239:CYS:N	2.91	0.43
46:DB:334:GLN:HA	46:DB:341:PHE:CE2	2.53	0.43
45:DI:268:MET:HE1	45:DI:380:ASN:HB2	1.98	0.43
46:DJ:258:ILE:HG13	46:DJ:258:ILE:O	2.18	0.43
45:DK:75:ILE:O	45:DK:79:ARG:HG2	2.18	0.43
46:DL:73:MET:HB2	46:DL:90:PHE:CD1	2.53	0.43
46:DN:318:ARG:HH11	46:DN:358:PRO:HG3	1.82	0.43
46:EB:69:GLU:HA	46:EB:70:PRO:HD3	1.86	0.43
46:EB:212:PHE:HE2	46:EB:220:PRO:HG2	1.82	0.43
45:EE:69:ASP:OD2	45:EE:71:GLU:N	2.45	0.43
46:EL:321:MET:N	46:EL:321:MET:SD	2.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EL:379:LYS:O	46:EL:383:GLU:OE1	2.37	0.43
46:EN:289:LEU:HD13	46:EN:365:VAL:HG23	2.00	0.43
45:FC:21:TRP:HZ2	45:FC:65:ALA:HB2	1.82	0.43
45:FC:90:GLU:OE2	45:FC:90:GLU:N	2.51	0.43
45:FC:331:SER:O	45:FC:335:ILE:HG12	2.17	0.43
46:FD:121:ARG:HD3	46:FD:121:ARG:C	2.39	0.43
45:FE:254:GLU:HG2	45:FE:352:LYS:HZ1	1.82	0.43
45:FE:296:PHE:CE2	45:FE:335:ILE:HG21	2.53	0.43
45:FG:371:VAL:HG12	45:FG:373:ARG:H	1.84	0.43
46:FH:287:PRO:HD3	46:FH:325:GLU:OE1	2.18	0.43
46:FL:65:LEU:HD22	46:FL:90:PHE:CE1	2.53	0.43
46:FL:214:THR:HG23	46:FL:215:LEU:HD22	2.00	0.43
46:FN:68:LEU:HD23	46:FN:97:ALA:HB2	1.99	0.43
46:FN:193:VAL:HG23	46:FN:265:PHE:HE1	1.82	0.43
45:GC:257:THR:HG22	46:GF:397:TRP:CZ3	2.53	0.43
45:GI:272:TYR:HD2	45:GI:275:ILE:HD11	1.83	0.43
45:GM:155:GLU:HG2	45:GM:197:HIS:CD2	2.53	0.43
46:GN:36:TYR:CE1	46:GN:44:LEU:HG	2.53	0.43
46:GN:64:ILE:HG13	46:GN:120:VAL:HG12	2.00	0.43
45:HA:241:SER:OG	45:HA:250:VAL:O	2.37	0.43
45:HC:317:MET:SD	45:HC:317:MET:N	2.91	0.43
46:HF:242:PHE:CD2	46:HF:356:ILE:HG21	2.54	0.43
46:HH:68:LEU:HB3	46:HH:96:GLY:HA2	1.99	0.43
46:HH:253:LEU:O	46:HH:257:LEU:HD23	2.17	0.43
46:HH:309:ARG:HH21	46:HH:342:VAL:HA	1.81	0.43
45:HK:239:THR:HG23	45:HK:243:ARG:HH21	1.83	0.43
45:HK:358:GLN:NE2	45:HK:359:PRO:O	2.51	0.43
45:HK:434:GLU:O	45:HK:437:ILE:HG12	2.18	0.43
45:HM:71:GLU:OE2	46:HN:2:ARG:NH2	2.52	0.43
45:IA:167:LEU:HD11	45:IA:252:ILE:HG23	1.99	0.43
45:IA:384:ILE:O	45:IA:387:VAL:HG22	2.18	0.43
46:IB:221:THR:O	46:IB:225:LEU:HG	2.18	0.43
46:IB:226:ASN:HA	46:IB:229:VAL:HG22	2.00	0.43
45:IC:271:SER:OG	45:IC:301:MET:SD	2.76	0.43
45:IC:284:GLU:HG2	45:IC:286:LEU:HD22	1.99	0.43
46:ID:386:THR:O	46:ID:390:ARG:HG2	2.18	0.43
45:IE:68:LEU:HD21	45:IE:118:CYS:SG	2.58	0.43
45:IK:69:ASP:HB3	45:IK:75:ILE:HD11	2.00	0.43
45:IM:296:PHE:HE1	45:IM:317:MET:HE3	1.82	0.43
45:IM:296:PHE:CE1	45:IM:317:MET:HE3	2.53	0.43
46:IN:232:ALA:HB1	46:IN:268:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JA:259:LEU:HD23	45:JA:314:ALA:HB1	1.99	0.43
46:JD:286:VAL:HG12	46:JD:329:GLN:HG3	1.99	0.43
46:JF:391:ARG:HA	46:JF:391:ARG:HD2	1.81	0.43
45:JG:244:PHE:CE2	45:JG:358:GLN:HG2	2.53	0.43
45:JG:259:LEU:HD21	45:JG:316:SER:HB2	1.99	0.43
46:JH:374:ILE:HD12	46:JH:374:ILE:H	1.83	0.43
45:JI:181:VAL:HG12	46:JJ:256:ASN:OD1	2.18	0.43
45:JK:272:TYR:HD1	45:JK:376:CYS:HB3	1.83	0.43
45:JM:19:ALA:O	45:JM:22:GLU:HG2	2.18	0.43
46:KB:150:LEU:O	46:KB:153:SER:OG	2.26	0.43
46:KB:258:ILE:HG12	46:KB:266:PHE:HZ	1.83	0.43
45:KE:386:GLU:O	45:KE:390:ARG:HG3	2.19	0.43
45:KI:5:ILE:HB	45:KI:135:PHE:CD1	2.53	0.43
45:KK:18:ASN:O	45:KK:22:GLU:HG2	2.18	0.43
46:KL:8:GLN:HE21	46:KL:65:LEU:CD2	2.31	0.43
46:LB:68:LEU:HD12	46:LB:97:ALA:HB2	2.01	0.43
46:LD:73:MET:HE1	46:LD:92:PHE:HB3	1.98	0.43
46:LD:275:SER:O	46:LD:279:GLN:HB2	2.18	0.43
45:LG:88:HIS:HB3	45:LG:91:GLN:HG2	2.01	0.43
45:LI:185:TYR:HE1	45:LI:398:MET:HB3	1.82	0.43
45:MA:174:SER:HB2	45:MA:177:VAL:O	2.17	0.43
46:MH:139:LEU:HD21	46:MH:168:SER:HB3	2.00	0.43
46:MJ:116:VAL:O	46:MJ:120:VAL:HG23	2.18	0.43
45:MK:210:TYR:CE1	45:MK:227:LEU:HD21	2.52	0.43
45:NA:234:VAL:O	45:NA:238:LEU:HD23	2.18	0.43
45:NA:430:LYS:O	45:NA:434:GLU:OE1	2.36	0.43
46:NB:268:ILE:HD12	46:NB:368:VAL:HG22	2.00	0.43
46:ND:6:HIS:NE2	46:ND:8:GLN:HB3	2.33	0.43
45:NE:21:TRP:CZ2	45:NE:65:ALA:HB2	2.53	0.43
47:NE:501:GTP:O1G	46:NF:252:LYS:NZ	2.35	0.43
45:NG:284:GLU:CD	45:NG:286:LEU:H	2.22	0.43
46:NL:270:PHE:HD1	46:NL:366:THR:HG22	1.82	0.43
46:NL:342:VAL:HG13	46:NL:345:ILE:HG22	2.01	0.43
45:NM:268:MET:SD	45:NM:380:ASN:HB2	2.58	0.43
45:OA:172:TYR:CE2	45:OA:203:MET:HG3	2.53	0.43
46:OB:25:SER:OG	46:OB:30:ILE:O	2.36	0.43
45:OC:86:LEU:HD23	45:OC:87:PHE:CE2	2.53	0.43
45:OC:138:PHE:HE1	45:OC:169:PHE:CD2	2.36	0.43
45:OC:345:ASP:OD1	45:OC:346:TRP:N	2.50	0.43
45:OC:420:GLU:HA	45:OC:423:GLU:HG3	2.00	0.43
46:OD:83:GLN:O	46:PD:281:TYR:OH	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OJ:178:THR:HG22	46:OJ:180:VAL:H	1.82	0.43
45:OM:60:LYS:HD3	45:PM:283:HIS:CG	2.53	0.43
45:PA:88:HIS:ND1	45:PA:90:GLU:HG2	2.33	0.43
46:PB:273:LEU:N	46:PB:292:GLN:HE22	2.07	0.43
45:PC:181:VAL:HG12	46:PD:347:ASN:O	2.18	0.43
46:PD:309:ARG:NH1	46:PD:343:GLU:OE2	2.49	0.43
46:PH:105:HIS:CE1	46:PH:150:LEU:HD12	2.53	0.43
46:PJ:19:LYS:NZ	46:PJ:223:GLY:O	2.51	0.43
46:PJ:73:MET:CE	46:PJ:92:PHE:HB3	2.48	0.43
45:PK:352:LYS:HD3	45:PK:353:VAL:N	2.33	0.43
46:PN:133:PHE:HB2	46:PN:164:MET:SD	2.57	0.43
46:QB:68:LEU:HD13	46:QB:143:THR:OG1	2.18	0.43
45:QC:11:GLN:HB2	45:QC:74:VAL:HG21	2.00	0.43
45:QE:26:LEU:HD11	45:QE:364:PRO:HD2	2.00	0.43
46:QF:324:LYS:HD3	45:QG:222:PRO:HD2	2.00	0.43
45:QG:324:VAL:HG12	45:QG:326:LYS:HG2	1.99	0.43
45:QG:340:THR:HG23	45:QG:341:ILE:HG12	2.00	0.43
47:QG:501:GTP:O2A	47:QG:501:GTP:H8	2.02	0.43
45:QI:19:ALA:HA	45:QI:22:GLU:OE1	2.17	0.43
45:QI:121:ARG:HA	45:QI:121:ARG:NH1	2.33	0.43
46:QJ:42:LEU:HD13	46:QJ:45:GLU:HG2	2.00	0.43
46:QJ:141:GLY:HA3	49:QJ:501:GDP:O3A	2.18	0.43
45:QM:326:LYS:HD3	46:QN:212:PHE:CZ	2.46	0.43
46:QN:97:ALA:HB3	46:QN:143:THR:HB	1.99	0.43
46:QN:148:GLY:O	46:QN:152:ILE:HG12	2.18	0.43
46:RB:268:ILE:HG22	46:RB:368:VAL:HG13	2.00	0.43
45:RC:296:PHE:HD2	45:RC:335:ILE:HD12	1.83	0.43
45:RE:226:ASN:O	45:RE:230:LEU:HD23	2.18	0.43
45:RE:287:SER:O	45:RE:291:ILE:HG23	2.17	0.43
45:RE:384:ILE:O	45:RE:387:VAL:HG22	2.18	0.43
45:RG:8:HIS:CD2	45:RG:138:PHE:HD2	2.36	0.43
45:RG:52:PHE:HZ	45:RG:239:THR:HG21	1.83	0.43
45:RI:5:ILE:HB	45:RI:135:PHE:CD1	2.53	0.43
46:RJ:139:LEU:HD13	46:RJ:168:SER:HB3	2.00	0.43
46:RL:175:VAL:HG13	46:RL:175:VAL:O	2.18	0.43
46:SB:322:SER:OG	46:SB:325:GLU:OE2	2.32	0.43
46:SB:420:SER:O	46:SB:423:GLN:HG3	2.18	0.43
45:SC:226:ASN:O	45:SC:230:LEU:HD23	2.18	0.43
46:SD:68:LEU:HB2	46:SD:96:GLY:HA2	1.98	0.43
45:SE:138:PHE:CD1	45:SE:169:PHE:HB2	2.53	0.43
45:SE:265:ILE:HG22	45:SE:380:ASN:HD21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:101:TRP:HB2	46:SF:184:ASN:HB3	2.00	0.43
46:SF:165:GLU:HG2	46:SF:198:GLU:OE2	2.18	0.43
46:SJ:124:ALA:O	46:SJ:130:LEU:HD21	2.17	0.43
46:SJ:217:LEU:HD23	46:SJ:219:THR:H	1.83	0.43
46:SN:312:THR:HG22	46:SN:370:ASN:HB3	2.00	0.43
46:SN:406:MET:O	46:SN:410:GLU:HG3	2.17	0.43
45:TA:34:GLY:O	45:TA:60:LYS:HA	2.17	0.43
45:TA:141:VAL:HG11	45:TA:172:TYR:HD1	1.82	0.43
45:TC:176:GLN:NE2	45:TC:207:GLU:OE2	2.51	0.43
46:TD:270:PHE:HD2	46:TD:273:LEU:HD21	1.82	0.43
45:TE:336:LYS:NZ	45:TE:349:THR:HA	2.33	0.43
45:TE:434:GLU:O	45:TE:437:ILE:HG22	2.18	0.43
45:TG:338:LYS:HD2	45:TG:339:ARG:H	1.83	0.43
46:TH:183:TYR:HA	46:TH:385:PHE:CE1	2.52	0.43
45:TI:120:ASP:HB3	45:TI:124:LYS:HZ1	1.82	0.43
45:TI:268:MET:N	45:TI:268:MET:SD	2.92	0.43
45:TI:318:MET:O	45:TI:375:VAL:HA	2.18	0.43
46:TJ:221:THR:HG23	46:TJ:224:ASP:H	1.82	0.43
45:TK:88:HIS:CE1	45:TK:90:GLU:HG3	2.53	0.43
46:TL:238:CYS:HA	46:TL:241:ARG:NE	2.33	0.43
46:TL:391:ARG:HA	46:TL:391:ARG:HD2	1.78	0.43
46:UB:164:MET:HB3	46:UB:197:ASP:H	1.82	0.43
45:UC:21:TRP:CZ2	45:UC:65:ALA:HB2	2.53	0.43
46:UD:72:THR:HG23	46:UD:73:MET:SD	2.58	0.43
45:UE:280:LYS:HD2	45:UE:283:HIS:HB3	1.99	0.43
46:UF:6:HIS:NE2	46:UF:8:GLN:OE1	2.51	0.43
46:UF:320:ARG:NH2	46:UF:321:MET:HA	2.33	0.43
45:UG:288:VAL:HA	45:UG:291:ILE:HG12	2.00	0.43
46:UJ:6:HIS:O	46:UJ:63:ALA:HA	2.18	0.43
46:UJ:143:THR:HB	49:UJ:501:GDP:O1B	2.18	0.43
45:UK:68:LEU:HD11	45:UK:118:CYS:SG	2.59	0.43
45:UK:231:ILE:O	45:UK:235:ILE:HG12	2.18	0.43
45:VA:288:VAL:HG11	45:VA:323:VAL:HG23	2.00	0.43
46:VB:306:ARG:HD2	46:VB:340:TYR:CD1	2.54	0.43
46:VD:200:MET:HG3	46:VD:266:PHE:HB2	1.99	0.43
45:VE:100:ALA:O	46:VF:255:VAL:HG11	2.19	0.43
46:VF:392:LYS:C	46:VF:395:LEU:HD23	2.38	0.43
45:VG:10:GLY:O	45:VG:14:ILE:HG12	2.18	0.43
45:VG:345:ASP:OD1	45:VG:439:THR:HG22	2.18	0.43
45:VK:60:LYS:HA	45:VK:60:LYS:HD2	1.81	0.43
45:VK:79:ARG:HH21	45:VK:92:LEU:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VM:184:PRO:O	45:VM:188:ILE:HG12	2.18	0.43
46:VN:151:LEU:O	46:VN:155:VAL:HG23	2.19	0.43
45:WA:206:ASN:OD1	45:WA:207:GLU:N	2.51	0.43
45:WA:260:VAL:HG13	45:WA:265:ILE:O	2.17	0.43
46:WB:100:ASN:HD22	46:WB:103:LYS:HB2	1.83	0.43
45:WC:68:LEU:HD21	45:WC:118:CYS:HB2	1.99	0.43
46:WD:67:ASP:O	46:WD:92:PHE:HA	2.18	0.43
46:WD:201:VAL:HG23	46:WD:301:CYS:SG	2.58	0.43
45:WE:427:ALA:O	45:WE:430:LYS:HG2	2.18	0.43
45:WG:268:MET:CE	45:WG:378:ILE:HG22	2.48	0.43
45:WI:68:LEU:HD23	45:WI:149:LEU:HD21	2.00	0.43
46:WJ:150:LEU:O	46:WJ:154:LYS:HG2	2.18	0.43
45:WM:107:HIS:HA	45:WM:152:LEU:HD11	2.00	0.43
45:WM:121:ARG:HA	45:WM:124:LYS:HZ2	1.83	0.43
46:WN:99:ASN:HA	46:WN:142:GLY:H	1.83	0.43
46:WN:391:ARG:HD2	46:WN:391:ARG:HA	1.77	0.43
45:DC:133:GLN:HB3	45:DC:252:ILE:HG21	2.00	0.43
3:0C:38:PRO:HG3	45:EI:279:GLU:OE1	2.18	0.43
4:0D:35:LYS:HZ3	45:DC:84:ARG:NE	2.16	0.43
17:1F:20:TYR:CE2	46:HL:40:SER:HB3	2.53	0.43
26:1W:165:ILE:HA	46:LD:279:GLN:HE22	1.83	0.43
1:2A:27:SER:OG	34:5R:65:LEU:HD11	2.18	0.43
28:2F:93:GLU:OE1	45:HE:298:PRO:HG2	2.18	0.43
23:2O:185:ARG:NH2	46:VL:277:GLY:HA2	2.33	0.43
25:2R:312:GLN:OE1	46:CH:358:PRO:HB2	2.18	0.43
14:2V:133:TYR:CD2	46:LH:421:GLU:HA	2.53	0.43
11:3S:152:SER:HA	46:WN:95:THR:HG21	2.00	0.43
10:4Q:6:PHE:HE2	45:WI:120:ASP:HB2	1.81	0.43
34:4R:527:ASP:OD2	34:4R:529:GLU:HG3	2.18	0.43
35:4S:157:ILE:O	35:4S:161:THR:HG23	2.17	0.43
15:4X:108:LYS:HE2	15:4X:108:LYS:HA	2.01	0.43
37:5E:72:ASP:O	37:5E:104:MET:N	2.51	0.43
34:5R:282:ASP:OD1	34:5R:284:THR:OG1	2.26	0.43
40:6G:230:TYR:OH	45:UE:119:LEU:HG	2.18	0.43
34:6R:152:LYS:HG2	34:6R:160:TYR:CE1	2.53	0.43
34:6R:527:ASP:OD2	34:6R:530:TYR:N	2.43	0.43
44:8R:230:TYR:HD2	45:PE:282:TYR:HB2	1.83	0.43
45:AA:265:ILE:HG22	45:AA:380:ASN:HD21	1.83	0.43
46:AF:162:ARG:HA	46:AF:162:ARG:NE	2.33	0.43
46:AH:16:ILE:HD13	46:AH:226:ASN:OD1	2.18	0.43
46:AJ:207:LEU:HB3	46:AJ:225:LEU:HD22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BA:3:GLU:HG3	45:BA:129:CYS:SG	2.58	0.43
45:BA:372:MET:SD	45:BA:372:MET:N	2.92	0.43
46:BB:1:MET:O	46:BB:2:ARG:HG2	2.18	0.43
46:BF:116:VAL:O	46:BF:120:VAL:HG23	2.18	0.43
45:BM:72:PRO:HA	45:BM:75:ILE:HD13	1.99	0.43
45:BM:356:ASN:OD1	45:BM:357:TYR:N	2.51	0.43
46:BN:16:ILE:HD12	46:BN:229:VAL:HG11	2.00	0.43
46:BN:173:PRO:HG3	46:BN:384:GLN:OE1	2.18	0.43
46:BN:324:LYS:HA	46:BN:327:ASP:OD2	2.19	0.43
46:CB:304:ASP:OD2	46:CB:306:ARG:HG2	2.18	0.43
46:CF:330:MET:HE2	46:CF:349:ILE:CG2	2.47	0.43
45:CG:207:GLU:O	45:CG:210:TYR:HB2	2.18	0.43
45:CK:51:THR:O	45:CK:64:ARG:NH1	2.51	0.43
45:CK:210:TYR:CD1	45:CK:227:LEU:HD21	2.53	0.43
45:CK:288:VAL:HA	45:CK:291:ILE:HG22	2.00	0.43
46:CN:167:PHE:CE2	46:CN:233:MET:HG2	2.53	0.43
46:DD:100:ASN:OD1	46:DD:103:LYS:HG2	2.18	0.43
45:DG:223:THR:HG23	45:DG:225:THR:H	1.84	0.43
46:DH:69:GLU:CD	46:DH:71:GLY:H	2.21	0.43
45:DI:289:ALA:O	45:DI:292:THR:HG22	2.18	0.43
45:DI:335:ILE:HA	45:DI:338:LYS:HZ3	1.82	0.43
45:DI:356:ASN:OD1	45:DI:357:TYR:N	2.52	0.43
46:DL:39:ASP:OD1	46:DL:40:SER:N	2.52	0.43
45:DM:36:MET:HG3	45:DM:38:SER:H	1.84	0.43
45:DM:229:ARG:NH1	45:DM:363:VAL:HG11	2.33	0.43
46:EB:208:TYR:HA	46:EB:211:CYS:SG	2.58	0.43
46:EB:324:LYS:HD3	45:EC:222:PRO:HG2	2.00	0.43
46:EF:154:LYS:HA	46:EF:157:GLU:HG3	2.00	0.43
45:EG:413:MET:HG2	45:EG:417:GLU:HG3	2.00	0.43
46:EJ:65:LEU:HD12	46:EJ:90:PHE:CE1	2.53	0.43
46:FD:20:PHE:O	46:FD:24:ILE:HG12	2.17	0.43
46:FF:153:SER:O	46:FF:157:GLU:HG2	2.18	0.43
46:FH:139:LEU:HD12	46:FH:188:SER:OG	2.18	0.43
45:FK:164:LYS:HD2	45:FK:164:LYS:HA	1.83	0.43
46:FL:274:THR:HG21	46:FL:282:ARG:HG3	2.00	0.43
45:GA:121:ARG:HA	45:GA:121:ARG:HD3	1.75	0.43
45:GA:377:MET:HE2	45:GA:379:SER:HB3	1.99	0.43
45:GC:224:TYR:CZ	46:GD:246:LEU:HD11	2.54	0.43
46:GD:112:LEU:O	46:GD:112:LEU:HD23	2.18	0.43
46:GD:343:GLU:N	46:GD:343:GLU:OE2	2.51	0.43
45:GE:324:VAL:HB	45:GE:327:ASP:OD2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GG:174:SER:HB2	45:GG:177:VAL:O	2.19	0.43
45:GG:387:VAL:HA	45:GG:390:ARG:NH1	2.33	0.43
45:GM:288:VAL:HA	45:GM:291:ILE:HG12	1.99	0.43
46:GN:122:LYS:C	46:GN:122:LYS:HD2	2.39	0.43
46:GN:375:GLN:NE2	46:GN:419:VAL:O	2.52	0.43
45:HE:261:PRO:HA	46:HH:394:PHE:CD1	2.53	0.43
46:HH:165:GLU:OE2	46:HH:250:LEU:HD23	2.18	0.43
45:HK:257:THR:HG22	46:HN:397:TRP:CE2	2.54	0.43
46:HL:378:PHE:HA	46:HL:381:VAL:HG22	2.00	0.43
45:HM:404:PHE:CE2	46:HN:259:PRO:HA	2.53	0.43
46:HN:379:LYS:O	46:HN:379:LYS:NZ	2.42	0.43
45:IA:271:SER:HB2	45:IA:377:MET:HB3	1.99	0.43
46:ID:290:THR:HG21	46:ID:329:GLN:HG2	1.99	0.43
45:IG:39:ASP:OD2	45:IG:40:LYS:HG2	2.18	0.43
45:IG:210:TYR:HH	46:IH:323:THR:HG1	1.64	0.43
46:IH:253:LEU:HD12	46:IH:257:LEU:HD11	2.00	0.43
45:II:287:SER:HB3	45:II:290:GLU:HG2	1.99	0.43
46:IN:45:GLU:HG3	46:IN:46:ARG:HD2	2.00	0.43
46:IN:156:ARG:O	46:IN:156:ARG:HD3	2.18	0.43
46:IN:209:ASP:OD1	46:IN:213:ARG:NE	2.45	0.43
46:JB:391:ARG:HA	46:JB:391:ARG:HD2	1.77	0.43
45:JE:222:PRO:HD2	46:JF:324:LYS:CE	2.48	0.43
46:JF:148:GLY:O	46:JF:152:ILE:HG13	2.18	0.43
45:JK:53:PHE:HB3	45:JK:61:HIS:HB3	2.00	0.43
45:JK:214:ARG:HD2	45:JK:215:ARG:N	2.32	0.43
45:JK:393:HIS:O	45:JK:397:LEU:HD23	2.18	0.43
45:KC:395:PHE:HZ	45:KC:418:PHE:HB3	1.83	0.43
46:KD:257:LEU:HD21	46:KD:314:SER:OG	2.18	0.43
45:KE:151:SER:O	45:KE:155:GLU:HG3	2.18	0.43
45:KG:42:ILE:HG13	45:KG:43:GLY:N	2.34	0.43
46:KH:257:LEU:HD21	46:KH:314:SER:HB2	2.00	0.43
46:LB:50:TYR:HE1	46:LB:134:GLN:HE22	1.64	0.43
46:LD:67:ASP:O	46:LD:92:PHE:HA	2.18	0.43
45:LE:205:ASP:OD2	45:LE:205:ASP:N	2.52	0.43
45:LG:26:LEU:HD11	45:LG:364:PRO:HD2	2.00	0.43
45:LI:181:VAL:HG12	46:LJ:347:ASN:O	2.17	0.43
46:LJ:105:HIS:O	46:LJ:105:HIS:ND1	2.51	0.43
45:LM:141:VAL:HG12	45:LM:171:ILE:O	2.17	0.43
45:LM:316:SER:HB3	45:LM:378:ILE:HB	2.01	0.43
45:ME:324:VAL:HG12	45:ME:326:LYS:HG2	2.00	0.43
45:ME:430:LYS:HA	45:ME:430:LYS:HE2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MF:387:ALA:HA	46:MF:390:ARG:NH1	2.32	0.43
45:MG:265:ILE:HG22	45:MG:380:ASN:HD21	1.82	0.43
46:MJ:417:ASP:O	46:MJ:421:GLU:HG3	2.19	0.43
45:MK:224:TYR:HE2	46:ML:246:LEU:HD11	1.82	0.43
46:ML:383:GLU:HG3	46:ML:384:GLN:N	2.32	0.43
46:MN:67:ASP:OD1	46:MN:69:GLU:N	2.31	0.43
45:NA:31:GLN:HB2	45:NA:33:ASP:OD1	2.18	0.43
45:NA:345:ASP:N	45:NA:345:ASP:OD1	2.51	0.43
45:NA:414:GLU:HB3	45:NA:417:GLU:OE1	2.18	0.43
46:NB:405:GLU:O	46:NB:409:THR:HG23	2.18	0.43
45:NI:276:ILE:HG21	45:NI:283:HIS:CE1	2.53	0.43
46:NJ:285:THR:OG1	46:NJ:288:GLU:OE1	2.31	0.43
45:NK:10:GLY:O	45:NK:14:ILE:HG12	2.19	0.43
45:NK:209:ILE:HG12	45:NK:302:MET:SD	2.58	0.43
46:NL:407:GLU:O	46:NL:410:GLU:HG3	2.19	0.43
45:NM:62:VAL:HG21	45:NM:88:HIS:HD2	1.84	0.43
46:NN:154:LYS:HA	46:NN:157:GLU:HG3	2.00	0.43
45:OA:279:GLU:HG2	45:OA:280:LYS:HG2	2.00	0.43
45:OC:101:ASN:HA	45:OC:144:GLY:H	1.83	0.43
45:OC:107:HIS:O	45:OC:107:HIS:ND1	2.51	0.43
45:OC:434:GLU:O	45:OC:437:ILE:HG22	2.19	0.43
46:OD:175:VAL:HG11	46:OD:208:TYR:HE2	1.82	0.43
45:OG:22:GLU:OE1	45:OG:83:TYR:OH	2.16	0.43
45:OG:396:ASP:OD1	45:OG:422:ARG:NH1	2.51	0.43
45:OK:154:LEU:HD12	45:OK:194:LEU:HD22	1.99	0.43
46:OL:117:LEU:HA	46:OL:120:VAL:HG12	1.99	0.43
45:OM:3:GLU:OE2	45:OM:129:CYS:HB3	2.18	0.43
45:OM:224:TYR:HB2	46:ON:245:GLN:NE2	2.34	0.43
45:PA:136:LEU:HD12	45:PA:169:PHE:HE2	1.82	0.43
46:PD:290:THR:HA	46:PD:293:MET:HG3	1.99	0.43
45:PE:32:PRO:HB3	45:PE:83:TYR:CE1	2.54	0.43
45:PE:107:HIS:ND1	45:PE:107:HIS:O	2.51	0.43
46:PF:7:ILE:HG12	46:PF:64:ILE:HD13	1.99	0.43
46:PF:21:TRP:CZ3	46:PF:61:PRO:HB3	2.53	0.43
46:PF:44:LEU:HD23	46:PF:47:ILE:HG21	1.99	0.43
46:PF:391:ARG:HD2	46:PF:391:ARG:HA	1.74	0.43
45:PG:73:THR:HG21	46:PH:247:ASN:HD21	1.83	0.43
46:PH:41:ASP:OD1	46:PH:42:LEU:N	2.51	0.43
46:PH:390:ARG:NE	46:PH:390:ARG:HA	2.34	0.43
45:PM:179:THR:OG1	47:PM:501:GTP:O3'	2.28	0.43
45:PM:212:ILE:HD11	45:PM:300:ASN:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PN:27:GLU:O	46:PN:43:GLN:NE2	2.37	0.43
45:QA:328:VAL:HG11	45:QA:353:VAL:HG21	2.00	0.43
46:QB:114:ASP:N	46:QB:114:ASP:OD2	2.52	0.43
46:QB:379:LYS:O	46:QB:383:GLU:HG2	2.18	0.43
45:QC:174:SER:HB2	45:QC:177:VAL:O	2.18	0.43
45:QC:296:PHE:CE1	45:QC:377:MET:HG3	2.52	0.43
46:QD:238:CYS:SG	46:QD:239:CYS:N	2.91	0.43
45:QE:268:MET:CG	45:QE:380:ASN:HB3	2.48	0.43
46:QF:105:HIS:CD2	46:QF:150:LEU:HB2	2.53	0.43
45:QG:88:HIS:CD2	45:RG:280:LYS:HZ1	2.37	0.43
46:QH:66:MET:SD	46:QH:116:VAL:HG21	2.58	0.43
46:QJ:238:CYS:SG	46:QJ:239:CYS:N	2.92	0.43
45:QK:427:ALA:HA	45:QK:430:LYS:HG2	2.00	0.43
45:QM:68:LEU:HD21	45:QM:149:LEU:HD12	2.00	0.43
46:QN:9:GLY:HA2	46:QN:66:MET:O	2.19	0.43
45:RA:293:ASN:O	45:RA:297:GLU:HG3	2.18	0.43
46:RD:91:VAL:HG21	46:RD:116:VAL:HB	2.00	0.43
46:RD:380:ARG:HA	46:RD:383:GLU:HG3	2.00	0.43
46:RF:86:ARG:HH21	46:SF:282:ARG:HB2	1.82	0.43
46:RH:164:MET:H	46:RH:197:ASP:HB2	1.82	0.43
45:RK:287:SER:O	45:RK:291:ILE:HG23	2.17	0.43
46:RL:317:PHE:HB2	46:RL:353:ILE:HD13	1.99	0.43
46:RL:336:LYS:HD2	46:RL:337:ASN:OD1	2.17	0.43
46:SD:309:ARG:HD3	46:SD:342:VAL:HB	2.00	0.43
45:SE:9:VAL:CG2	45:SE:139:ASN:HB3	2.48	0.43
45:SE:232:ALA:HA	45:SE:235:ILE:HG22	2.00	0.43
46:SH:289:LEU:HD11	46:SH:363:MET:HB3	2.01	0.43
45:SI:54:SER:HB3	45:SI:64:ARG:NH2	2.33	0.43
45:SK:223:THR:HG23	45:SK:225:THR:H	1.83	0.43
45:SK:270:SER:HB3	45:SK:378:ILE:HG12	2.00	0.43
45:SK:276:ILE:HG12	45:SK:281:ALA:HA	2.00	0.43
45:SK:429:GLU:O	45:SK:432:TYR:HB2	2.17	0.43
45:SM:229:ARG:HH12	45:SM:366:GLY:CA	2.26	0.43
46:TB:305:PRO:HB2	46:TB:310:TYR:HE1	1.83	0.43
45:TC:242:LEU:HD11	45:TC:252:ILE:HG23	1.99	0.43
45:TE:411:GLU:N	45:TE:411:GLU:OE1	2.51	0.43
45:TG:287:SER:O	45:TG:291:ILE:HG12	2.19	0.43
46:TL:2:ARG:HB3	46:TL:131:GLN:HB2	2.01	0.43
46:TL:102:ALA:HB2	46:TL:398:TYR:HD1	1.83	0.43
45:TM:141:VAL:HG12	45:TM:171:ILE:O	2.19	0.43
45:TM:233:GLN:OE1	45:TM:360:PRO:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TN:293:MET:CE	46:TN:365:VAL:HG11	2.48	0.43
46:UB:273:LEU:H	46:UB:292:GLN:NE2	2.16	0.43
46:UB:312:THR:HG22	46:UB:370:ASN:HB3	1.99	0.43
46:UD:54:ALA:HB3	46:UD:58:ARG:HG2	2.00	0.43
45:UE:105:ARG:HG3	45:UE:411:GLU:OE1	2.19	0.43
45:UE:207:GLU:HG3	45:UE:304:LYS:HG3	2.00	0.43
45:UE:352:LYS:HZ1	46:UF:179:VAL:HG13	1.83	0.43
45:UG:261:PRO:HA	46:UH:394:PHE:CD1	2.52	0.43
46:UH:154:LYS:O	46:UH:157:GLU:HG3	2.18	0.43
46:UJ:6:HIS:CD2	46:UJ:134:GLN:HE21	2.37	0.43
45:UK:258:ASN:CB	45:UK:352:LYS:HD2	2.40	0.43
46:UL:325:GLU:HG2	45:UM:221:ARG:HH11	1.83	0.43
45:VA:254:GLU:O	45:VA:255:PHE:HD1	2.00	0.43
45:VA:331:SER:O	45:VA:335:ILE:HG12	2.19	0.43
45:VA:434:GLU:O	45:VA:437:ILE:HG12	2.17	0.43
46:VB:391:ARG:HD2	46:VB:391:ARG:HA	1.78	0.43
45:VE:164:LYS:HD3	45:VE:164:LYS:HA	1.75	0.43
45:VI:434:GLU:O	45:VI:437:ILE:HG12	2.18	0.43
45:VK:60:LYS:HZ1	45:VK:86:LEU:HD12	1.82	0.43
45:VK:123:ARG:NH2	45:VK:127:ASP:OD1	2.48	0.43
46:VL:129:CYS:SG	46:VL:131:GLN:NE2	2.89	0.43
45:VM:19:ALA:HA	45:VM:22:GLU:OE1	2.18	0.43
45:VM:141:VAL:HG11	45:VM:172:TYR:CD1	2.53	0.43
45:VM:268:MET:HB2	45:VM:379:SER:O	2.18	0.43
46:VN:211:CYS:O	46:VN:215:LEU:HB2	2.18	0.43
46:WF:175:VAL:O	46:WF:175:VAL:HG23	2.18	0.43
46:WJ:121:ARG:HG2	46:WJ:125:GLU:OE1	2.19	0.43
45:WK:8:HIS:HB2	45:WK:67:PHE:CD2	2.52	0.43
46:WL:154:LYS:HA	46:WL:154:LYS:HD3	1.84	0.43
46:WN:94:GLN:N	46:WN:94:GLN:OE1	2.51	0.43
1:1A:138:TRP:CZ2	45:AE:81:GLY:HA2	2.53	0.43
4:1D:81:ARG:NH2	46:EF:361:LEU:O	2.50	0.43
9:1N:8:ARG:CZ	45:JG:285:GLN:HE22	2.31	0.43
24:1P:222:LEU:HD12	45:TG:282:TYR:CE1	2.52	0.43
30:2H:208:ASN:ND2	45:AC:26:LEU:HD21	2.24	0.43
23:2O:427:LEU:HB2	45:VA:282:TYR:CE2	2.52	0.43
12:2T:132:PRO:HD3	45:MG:123:ARG:NH1	2.30	0.43
30:3H:195:ASP:OD2	46:AH:359:LYS:NZ	2.48	0.43
10:3Q:37:ILE:HD11	35:5S:208:GLN:CD	2.39	0.43
25:3R:283:ARG:HH21	45:CK:46:ASP:H	1.64	0.43
36:5B:63:THR:O	36:5B:64:LYS:HE2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5B:142:GLN:N	46:NH:320:ARG:HH12	2.17	0.43
37:5F:123:ARG:HG3	45:OE:372:MET:HE1	2.00	0.43
37:5F:133:PRO:HB2	37:5F:136:LEU:HG	2.00	0.43
37:5H:123:ARG:NH2	45:OM:371:VAL:O	2.34	0.43
39:6F:26:TRP:O	39:6F:30:ARG:HG3	2.18	0.43
40:6G:164:ASN:HD21	40:6G:172:LEU:HD21	1.83	0.43
34:7R:434:ASN:OD1	46:FB:280:GLN:NE2	2.50	0.43
46:AB:4:ILE:HG13	46:AB:132:GLY:O	2.18	0.43
46:AB:201:VAL:HG12	46:AB:266:PHE:O	2.18	0.43
45:AC:107:HIS:ND1	45:AC:107:HIS:O	2.51	0.43
46:AD:314:SER:HA	46:AD:350:LYS:HB2	2.00	0.43
45:AE:20:CYS:HB2	45:AE:24:PHE:HE2	1.83	0.43
45:AE:212:ILE:HD11	45:AE:300:ASN:HA	1.99	0.43
45:AE:377:MET:SD	45:AE:379:SER:HB3	2.58	0.43
45:AE:387:VAL:HG12	45:AE:390:ARG:HH12	1.83	0.43
46:AF:167:PHE:CE1	46:AF:200:MET:HE2	2.54	0.43
45:AG:387:VAL:HG12	45:AG:390:ARG:CZ	2.48	0.43
45:AI:17:GLY:HA2	45:AI:20:CYS:SG	2.58	0.43
46:AL:12:CYS:SG	46:AL:138:SER:HB3	2.59	0.43
45:AM:388:PHE:HB2	45:AM:429:GLU:OE2	2.19	0.43
45:BA:179:THR:HG22	46:BB:350:LYS:NZ	2.34	0.43
45:BC:54:SER:HB3	45:BC:64:ARG:NE	2.34	0.43
46:BD:164:MET:SD	46:BD:166:THR:HG23	2.57	0.43
45:BE:404:PHE:CE1	46:BF:259:PRO:HA	2.53	0.43
46:BF:94:GLN:N	46:BF:94:GLN:OE1	2.51	0.43
45:BG:222:PRO:HG2	46:BH:324:LYS:HE2	2.00	0.43
46:BH:178:THR:HB	46:BH:181:GLU:OE2	2.18	0.43
45:BI:7:ILE:HG21	45:BI:153:LEU:HD21	2.01	0.43
46:BL:295:ASP:OD1	46:BL:297:LYS:N	2.46	0.43
46:BN:183:TYR:CZ	46:BN:388:MET:HB3	2.53	0.43
46:CB:248:SER:HA	46:CB:252:LYS:HD2	2.00	0.43
46:CB:317:PHE:HE1	46:CB:326:VAL:HG13	1.84	0.43
45:CG:155:GLU:HG3	45:CG:156:ARG:HH12	1.83	0.43
46:CJ:209:ASP:O	46:CJ:213:ARG:HG2	2.18	0.43
45:CK:18:ASN:O	45:CK:22:GLU:OE1	2.35	0.43
45:CM:171:ILE:HG23	45:CM:204:LEU:O	2.18	0.43
46:CN:5:VAL:HA	46:CN:62:ARG:HG3	2.00	0.43
46:DD:390:ARG:HA	46:DD:390:ARG:NH1	2.33	0.43
45:DG:214:ARG:HH21	45:DG:215:ARG:HG3	1.83	0.43
45:DG:288:VAL:HA	45:DG:291:ILE:HG12	2.00	0.43
45:DI:319:TYR:CE1	45:DI:375:VAL:HB	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DJ:62:ARG:HB2	46:DJ:123:GLU:OE1	2.18	0.43
46:DJ:391:ARG:HA	46:DJ:391:ARG:HD2	1.81	0.43
46:DJ:404:ASP:OD1	46:DJ:407:GLU:HG3	2.19	0.43
46:DL:62:ARG:HB2	46:DL:123:GLU:OE2	2.19	0.43
46:DL:148:GLY:O	46:DL:152:ILE:HG13	2.18	0.43
46:EB:68:LEU:HD12	46:EB:93:GLY:HA3	2.00	0.43
45:EE:91:GLN:NE2	45:EE:125:LEU:HD21	2.26	0.43
46:EF:178:THR:HG22	46:EF:180:VAL:H	1.83	0.43
45:EG:206:ASN:OD1	47:EG:501:GTP:N2	2.42	0.43
45:EG:268:MET:HG3	45:EG:380:ASN:HB2	1.99	0.43
46:EH:1:MET:SD	45:EI:72:PRO:HG2	2.58	0.43
46:EH:105:HIS:HD2	46:EH:146:GLY:O	2.01	0.43
46:EJ:337:ASN:OD1	46:EJ:340:TYR:HB2	2.18	0.43
45:FA:121:ARG:NH1	45:FA:121:ARG:HA	2.32	0.43
45:FC:263:PRO:HD3	46:FF:396:HIS:CD2	2.52	0.43
45:FC:399:TYR:O	45:FC:402:ARG:NH1	2.51	0.43
46:FD:35:THR:HB	46:FD:37:HIS:HE1	1.84	0.43
46:FD:221:THR:HG23	46:FD:224:ASP:H	1.84	0.43
46:FF:1:MET:O	46:FF:2:ARG:HG2	2.19	0.43
46:FF:22:GLU:HG2	46:FF:81:PHE:CD1	2.53	0.43
46:FF:190:HIS:CD2	46:FF:414:ASN:HD22	2.36	0.43
45:FG:21:TRP:CZ2	45:FG:65:ALA:HB2	2.53	0.43
45:FG:174:SER:HB2	45:FG:177:VAL:O	2.17	0.43
45:FK:21:TRP:CZ2	45:FK:65:ALA:HB2	2.53	0.43
46:FL:192:LEU:HD21	46:FL:199:CYS:HB2	1.99	0.43
45:GA:336:LYS:HD3	45:GA:351:PHE:CE1	2.53	0.43
45:GA:407:TRP:CH2	46:GB:258:ILE:HB	2.52	0.43
46:GB:113:ILE:HD11	46:GB:151:LEU:HB2	2.00	0.43
45:GE:287:SER:HB3	45:GE:290:GLU:OE1	2.19	0.43
45:GE:324:VAL:O	45:GE:327:ASP:HB2	2.19	0.43
46:GF:293:MET:CE	46:GF:367:PHE:HB2	2.48	0.43
46:GH:157:GLU:OE2	46:GH:157:GLU:HA	2.18	0.43
45:GI:98:ASP:OD1	45:GI:99:ALA:N	2.52	0.43
45:GK:233:GLN:HG3	45:GK:368:LEU:HD21	2.00	0.43
45:GM:331:SER:O	45:GM:335:ILE:HG12	2.19	0.43
46:GN:4:ILE:HG13	46:GN:132:GLY:O	2.18	0.43
45:HA:258:ASN:CG	45:HA:352:LYS:HE3	2.39	0.43
46:HB:28:HIS:C	46:HB:43:GLN:HE21	2.21	0.43
45:HC:89:PRO:HD3	45:IC:283:HIS:ND1	2.34	0.43
45:HE:346:TRP:CD1	46:HH:391:ARG:HG3	2.54	0.43
46:HF:3:GLU:HG3	46:HF:62:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HF:314:SER:HA	46:HF:350:LYS:HB3	1.99	0.43
46:HH:213:ARG:NH2	46:HH:297:LYS:HB3	2.31	0.43
46:HL:306:ARG:HB2	46:HL:340:TYR:CE2	2.53	0.43
45:IA:328:VAL:O	45:IA:332:ILE:HG12	2.19	0.43
46:IB:3:GLU:H	46:IB:3:GLU:CD	2.22	0.43
46:IB:105:HIS:CE1	46:IB:150:LEU:HD12	2.53	0.43
46:IB:114:ASP:O	46:IB:117:LEU:HG	2.18	0.43
46:IB:292:GLN:HA	46:IB:295:ASP:OD2	2.18	0.43
45:IC:116:ASP:OD1	45:IC:117:LEU:N	2.51	0.43
45:IC:150:GLY:O	45:IC:154:LEU:HD23	2.19	0.43
46:ID:350:LYS:HD3	46:ID:351:SER:N	2.34	0.43
45:IE:297:GLU:HG2	45:IE:298:PRO:HD2	2.00	0.43
45:II:1:MET:N	45:II:47:ASP:OD2	2.51	0.43
46:IJ:164:MET:N	46:IJ:164:MET:SD	2.92	0.43
45:IK:98:ASP:OD2	45:IK:99:ALA:N	2.50	0.43
46:IN:48:ASN:O	46:IN:62:ARG:NH1	2.50	0.43
46:IN:359:LYS:HA	46:IN:359:LYS:HD2	1.79	0.43
46:JB:36:TYR:OH	46:JB:40:SER:O	2.34	0.43
46:JB:318:ARG:HE	46:JB:358:PRO:HG3	1.83	0.43
45:JG:56:THR:HG23	45:JG:58:ALA:H	1.83	0.43
46:JH:269:GLY:HA3	46:JH:299:MET:HE2	2.01	0.43
45:JI:393:HIS:O	45:JI:397:LEU:HD23	2.18	0.43
45:JM:422:ARG:NH1	45:JM:422:ARG:O	2.52	0.43
46:JN:420:SER:O	46:JN:423:GLN:HG3	2.18	0.43
45:KA:60:LYS:HD3	45:LA:282:TYR:CE1	2.49	0.43
45:KC:177:VAL:HG21	46:KD:327:ASP:HB3	2.00	0.43
46:KF:169:VAL:HG12	46:KF:202:ILE:HG23	2.01	0.43
45:KI:223:THR:HG23	45:KI:225:THR:H	1.82	0.43
46:KJ:324:LYS:O	46:KJ:327:ASP:N	2.51	0.43
45:KK:306:ASP:OD2	45:NK:282:TYR:OH	2.23	0.43
46:KN:248:SER:HA	46:KN:252:LYS:HD2	1.99	0.43
45:LA:260:VAL:HG23	45:LA:265:ILE:O	2.18	0.43
46:LD:238:CYS:SG	46:LD:318:ARG:NE	2.91	0.43
45:LE:46:ASP:HB2	45:LE:49:PHE:HE1	1.83	0.43
46:LH:286:VAL:HG23	46:LH:287:PRO:HD3	2.00	0.43
46:LL:67:ASP:O	46:LL:92:PHE:HA	2.18	0.43
46:LL:74:ASP:OD1	46:LL:77:ARG:NH2	2.51	0.43
46:LL:313:ALA:HB1	46:LL:367:PHE:CE1	2.53	0.43
46:LN:238:CYS:SG	46:LN:239:CYS:N	2.92	0.43
46:MB:151:LEU:O	46:MB:155:VAL:HG12	2.19	0.43
46:MD:31:ASP:HB2	46:MD:32:PRO:HD2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ME:85:GLN:HA	45:ME:85:GLN:OE1	2.18	0.43
45:ME:175:PRO:HG2	45:ME:176:GLN:OE1	2.19	0.43
46:MF:99:ASN:HA	46:MF:142:GLY:H	1.84	0.43
45:MG:96:LYS:HB3	46:MH:1:MET:HE3	1.98	0.43
45:MI:107:HIS:ND1	45:MI:107:HIS:O	2.52	0.43
45:MI:392:ASP:OD1	45:MI:422:ARG:NE	2.49	0.43
46:MJ:254:ALA:O	46:MJ:258:ILE:HG12	2.17	0.43
45:MK:195:LEU:HD21	45:MK:264:ARG:HD2	2.01	0.43
46:ML:21:TRP:CH2	46:ML:61:PRO:HB3	2.53	0.43
46:ML:407:GLU:HA	46:ML:410:GLU:CD	2.38	0.43
46:MN:10:GLY:O	46:MN:14:ASN:ND2	2.51	0.43
45:NA:72:PRO:HG2	46:NB:1:MET:HE2	1.99	0.43
45:NA:75:ILE:HD12	45:NA:75:ILE:H	1.84	0.43
46:NB:4:ILE:HG22	46:NB:132:GLY:N	2.33	0.43
45:NC:222:PRO:HG2	46:ND:324:LYS:HD3	2.00	0.43
46:ND:10:GLY:N	46:ND:67:ASP:OD1	2.42	0.43
46:ND:372:THR:HB	46:ND:426:GLN:NE2	2.28	0.43
45:NE:176:GLN:OE1	45:NE:176:GLN:N	2.52	0.43
45:NG:105:ARG:HG2	45:NG:110:ILE:HG12	2.00	0.43
45:NG:175:PRO:HG2	45:NG:304:LYS:NZ	2.34	0.43
45:NG:326:LYS:HA	46:NJ:208:TYR:HE2	1.83	0.43
45:NG:328:VAL:O	45:NG:332:ILE:HG12	2.18	0.43
46:NH:31:ASP:CG	46:NH:35:THR:HB	2.39	0.43
45:NK:220:GLU:O	46:NL:324:LYS:HE3	2.18	0.43
45:NK:221:ARG:HA	46:NL:324:LYS:NZ	2.33	0.43
45:NK:222:PRO:HD2	46:NL:324:LYS:HD3	1.99	0.43
46:NN:31:ASP:OD1	46:NN:34:GLY:N	2.51	0.43
46:NN:130:LEU:HD11	46:NN:133:PHE:CE1	2.54	0.43
45:OA:286:LEU:HA	45:OA:290:GLU:OE1	2.18	0.43
45:OC:398:MET:HE1	46:OD:345:ILE:HA	2.00	0.43
46:OD:155:VAL:HA	46:OD:158:GLU:OE2	2.18	0.43
46:OD:221:THR:HG23	46:OD:224:ASP:H	1.83	0.43
45:OE:175:PRO:HA	45:OE:390:ARG:NH1	2.34	0.43
46:OF:417:ASP:O	46:OF:421:GLU:HG3	2.18	0.43
46:OH:111:GLU:OE1	46:OH:111:GLU:N	2.45	0.43
45:OI:138:PHE:HE1	45:OI:169:PHE:CD2	2.36	0.43
45:OI:229:ARG:NH1	45:OI:363:VAL:HG11	2.33	0.43
45:OK:56:THR:HG23	45:OK:58:ALA:H	1.83	0.43
45:OK:287:SER:N	45:OK:290:GLU:OE2	2.38	0.43
46:OL:201:VAL:HG23	46:OL:301:CYS:SG	2.58	0.43
45:OM:24:PHE:O	45:OM:27:GLU:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ON:203:ASP:OD2	46:ON:302:ALA:N	2.37	0.43
45:PA:427:ALA:HA	45:PA:430:LYS:HG2	2.01	0.43
46:PB:45:GLU:HG3	46:PB:46:ARG:HG2	2.00	0.43
45:PC:181:VAL:HG22	46:PD:256:ASN:OD1	2.19	0.43
45:PG:76:ASP:OD2	46:PH:46:ARG:NH2	2.51	0.43
45:PG:209:ILE:HD11	45:PG:302:MET:HB3	1.99	0.43
46:PH:322:SER:O	46:PH:325:GLU:HG2	2.19	0.43
45:PI:434:GLU:O	45:PI:437:ILE:HG12	2.18	0.43
45:PM:122:ILE:HG21	45:PM:157:LEU:HD21	2.00	0.43
45:QA:171:ILE:HG23	45:QA:204:LEU:O	2.19	0.43
45:QA:217:LEU:HG	45:QA:219:ILE:HG13	2.01	0.43
45:QE:346:TRP:CD1	46:QF:391:ARG:HG3	2.53	0.43
45:QG:71:GLU:OE2	45:QG:73:THR:OG1	2.29	0.43
45:QG:87:PHE:HB3	45:QG:92:LEU:HD21	2.00	0.43
45:QG:259:LEU:HD12	45:QG:268:MET:HE3	2.01	0.43
46:QH:391:ARG:HD2	46:QH:391:ARG:HA	1.83	0.43
45:QI:14:ILE:HD13	45:QI:67:PHE:HB3	2.00	0.43
45:QI:76:ASP:HA	45:QI:79:ARG:HG2	1.99	0.43
45:QI:372:MET:HG2	45:QI:373:ARG:HG3	2.00	0.43
45:QK:319:TYR:CE2	45:QK:375:VAL:HB	2.53	0.43
45:RA:53:PHE:CE2	45:RA:63:PRO:HG3	2.53	0.43
46:RB:46:ARG:NH2	46:RB:243:PRO:HD3	2.33	0.43
46:RB:186:THR:HA	46:RB:189:VAL:HG22	1.99	0.43
45:RE:424:ASP:O	45:RE:428:LEU:HD23	2.18	0.43
45:RG:352:LYS:NZ	46:RH:178:THR:HA	2.33	0.43
46:RH:156:ARG:HH21	46:RH:164:MET:HG2	1.83	0.43
46:RJ:268:ILE:HG13	46:RJ:300:MET:HE2	2.00	0.43
46:RJ:392:LYS:HG3	46:RJ:395:LEU:HD22	2.01	0.43
45:RK:69:ASP:OD1	45:RK:70:LEU:N	2.50	0.43
46:RL:36:TYR:CZ	46:RL:44:LEU:HD21	2.53	0.43
46:RL:288:GLU:OE2	46:RL:291:GLN:NE2	2.52	0.43
46:RL:327:ASP:HA	46:RL:330:MET:HG2	2.01	0.43
46:SB:313:ALA:HB3	46:SB:349:ILE:HG13	2.01	0.43
45:SC:223:THR:HG23	45:SC:225:THR:H	1.82	0.43
45:SE:292:THR:HG21	45:SE:331:SER:HB2	2.00	0.43
45:SI:260:VAL:HB	46:SJ:397:TRP:HZ2	1.82	0.43
46:SJ:6:HIS:HD2	46:SJ:8:GLN:HG2	1.82	0.43
46:SJ:377:MET:HA	46:SJ:380:ARG:HG2	1.99	0.43
45:SK:274:PRO:HG3	45:SK:286:LEU:HD12	2.00	0.43
46:SL:262:ARG:HH21	46:SL:418:LEU:HD22	1.83	0.43
45:SM:14:ILE:HG21	45:SM:74:VAL:HG11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TA:171:ILE:HG23	45:TA:204:LEU:O	2.18	0.43
46:TB:201:VAL:HG23	46:TB:301:CYS:SG	2.58	0.43
45:TC:16:VAL:HG12	45:TC:228:ASN:ND2	2.33	0.43
45:TC:430:LYS:HA	45:TC:433:GLU:HG2	2.00	0.43
45:TE:235:ILE:O	45:TE:238:LEU:HG	2.18	0.43
46:TF:52:ASN:OD1	46:TF:62:ARG:NH2	2.51	0.43
46:TF:316:LEU:HG	46:TF:352:SER:OG	2.18	0.43
46:TH:282:ARG:NE	46:TH:288:GLU:OE1	2.51	0.43
46:TH:380:ARG:O	46:TH:383:GLU:HG3	2.18	0.43
46:TL:294:PHE:CD2	46:TL:333:VAL:HG11	2.53	0.43
45:UC:150:GLY:O	45:UC:154:LEU:HD23	2.18	0.43
46:UD:109:GLY:HA3	46:UD:147:MET:CE	2.47	0.43
46:UD:322:SER:H	45:UE:221:ARG:CZ	2.31	0.43
45:UE:329:ASN:O	45:UE:332:ILE:HG22	2.18	0.43
45:UG:258:ASN:HB2	45:UG:259:LEU:HD12	1.99	0.43
46:UH:287:PRO:HG3	46:UH:329:GLN:NE2	2.33	0.43
46:UH:325:GLU:HA	46:UH:328:GLU:HG2	2.01	0.43
46:UL:48:ASN:HA	46:UL:51:TYR:O	2.18	0.43
46:UN:121:ARG:O	46:UN:125:GLU:OE1	2.35	0.43
46:VF:232:ALA:HB1	46:VF:268:ILE:HD12	2.00	0.43
45:VG:226:ASN:ND2	45:VG:367:ASP:OD2	2.51	0.43
46:VH:44:LEU:HD22	46:VH:47:ILE:HD13	1.99	0.43
45:VK:115:VAL:HG22	45:VK:119:LEU:HD23	1.99	0.43
45:WC:119:LEU:HD21	45:WC:156:ARG:HB2	1.99	0.43
45:WC:227:LEU:O	45:WC:231:ILE:HG12	2.18	0.43
45:WC:335:ILE:HA	45:WC:338:LYS:HE2	2.01	0.43
45:WE:185:TYR:O	45:WE:189:LEU:HG	2.19	0.43
46:WF:47:ILE:HD12	46:WF:59:TYR:CE1	2.53	0.43
46:WF:150:LEU:HA	46:WF:191:GLN:HE22	1.84	0.43
46:WF:201:VAL:HG22	46:WF:266:PHE:O	2.17	0.43
46:WF:268:ILE:HG22	46:WF:368:VAL:HG22	2.00	0.43
45:WG:68:LEU:HD21	45:WG:118:CYS:HB2	1.99	0.43
46:WH:1:MET:N	46:WH:48:ASN:OD1	2.51	0.43
45:WI:208:ALA:HB2	45:WI:304:LYS:HG2	1.99	0.43
47:WK:501:GTP:O1G	46:WL:252:LYS:NZ	2.49	0.43
46:WL:261:PRO:HG2	46:WL:262:ARG:NH1	2.34	0.43
45:CE:426:ALA:O	45:CE:429:GLU:HG2	2.18	0.43
45:DC:39:ASP:N	45:DC:39:ASP:OD1	2.50	0.43
2:0B:46:PHE:CE2	46:JH:77:ARG:HB2	2.51	0.43
2:0B:196:LYS:HE2	45:KI:282:TYR:CE2	2.53	0.43
10:0Q:53:ASN:ND2	45:AA:399:TYR:HD2	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1H:297:THR:HA	45:GC:58:ALA:HB1	1.99	0.43
21:1L:427:ASN:ND2	45:CG:278:ALA:HB3	2.32	0.43
21:1L:872:MET:HB3	46:CB:362:LYS:NZ	2.34	0.43
34:4R:567:ASN:OD1	34:4R:568:ASP:N	2.52	0.43
35:4S:143:ILE:HG21	35:4S:182:TYR:CD1	2.54	0.43
37:5G:70:GLU:HA	37:5G:71:PRO:HD3	1.90	0.43
34:5R:317:HIS:O	46:CJ:227:HIS:HE1	2.00	0.43
34:7R:470:PHE:CD2	34:7R:471:LEU:HG	2.47	0.43
46:AB:232:ALA:HB1	46:AB:268:ILE:HD12	2.00	0.43
46:AB:310:TYR:HD2	46:AB:371:SER:HB2	1.84	0.43
46:AD:342:VAL:HG13	46:AD:345:ILE:HG22	2.00	0.43
45:AE:324:VAL:CG1	45:AE:326:LYS:HG2	2.48	0.43
45:AE:434:GLU:O	45:AE:437:ILE:HG12	2.18	0.43
46:AF:156:ARG:NH1	46:AF:197:ASP:OD1	2.50	0.43
45:AK:115:VAL:O	45:AK:119:LEU:HD23	2.19	0.43
45:AK:274:PRO:HG3	45:AK:286:LEU:HD12	2.00	0.43
45:AM:164:LYS:HD3	45:AM:165:SER:H	1.84	0.43
45:AM:265:ILE:HG13	45:AM:265:ILE:O	2.18	0.43
46:AN:372:THR:HA	46:AN:422:TYR:HE1	1.82	0.43
46:BB:238:CYS:SG	46:BB:239:CYS:N	2.92	0.43
45:BC:370:LYS:HE2	45:BC:370:LYS:HB2	1.83	0.43
45:BE:3:GLU:HG3	45:BE:129:CYS:SG	2.59	0.43
45:BE:216:ASN:HB3	45:BE:275:ILE:O	2.18	0.43
46:BF:304:ASP:OD2	46:BF:306:ARG:HG2	2.19	0.43
45:BI:201:ALA:HB3	45:BI:267:PHE:CD1	2.53	0.43
45:BI:329:ASN:ND2	46:BL:175:VAL:HG12	2.30	0.43
45:CA:40:LYS:HD2	45:CA:40:LYS:HA	1.74	0.43
45:CA:212:ILE:HD13	45:CA:215:ARG:NH1	2.31	0.43
45:CA:280:LYS:HE3	45:CA:283:HIS:ND1	2.34	0.43
45:CC:296:PHE:HE2	45:CC:335:ILE:HG21	1.83	0.43
46:CD:390:ARG:HH21	46:CD:391:ARG:HD3	1.84	0.43
46:CD:417:ASP:O	46:CD:421:GLU:HG2	2.18	0.43
45:CG:101:ASN:HA	45:CG:144:GLY:H	1.83	0.43
45:CG:195:LEU:HD13	45:CG:428:LEU:HD12	1.99	0.43
46:CH:77:ARG:HD2	46:CH:77:ARG:O	2.18	0.43
45:CI:73:THR:OG1	45:CI:74:VAL:N	2.51	0.43
45:CK:66:VAL:HG11	45:CK:122:ILE:HD11	2.00	0.43
46:CL:345:ILE:O	46:CL:345:ILE:HG13	2.19	0.43
45:CM:210:TYR:HE1	45:CM:227:LEU:HD11	1.82	0.43
45:DE:296:PHE:HD2	45:DE:341:ILE:HD13	1.83	0.43
46:DF:135:ILE:HB	46:DF:166:THR:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DG:14:ILE:HD12	45:DG:67:PHE:CD2	2.54	0.43
45:DG:326:LYS:HZ1	46:DH:219:THR:CA	2.32	0.43
45:DK:17:GLY:HA2	45:DK:20:CYS:SG	2.59	0.43
45:DK:259:LEU:HD23	45:DK:314:ALA:HB1	1.99	0.43
45:DK:268:MET:HE1	45:DK:378:ILE:HG22	2.00	0.43
45:DM:74:VAL:HG23	45:DM:75:ILE:HD12	2.00	0.43
45:EC:5:ILE:HD11	45:EC:125:LEU:HD13	2.00	0.43
46:EF:40:SER:OG	46:EF:43:GLN:HG3	2.18	0.43
46:EF:243:PRO:HB3	45:EG:77:GLU:OE2	2.18	0.43
46:EH:312:THR:HG22	46:EH:370:ASN:HB3	2.00	0.43
46:EL:8:GLN:HE21	46:EL:65:LEU:CG	2.31	0.43
45:EM:207:GLU:OE1	45:EM:207:GLU:N	2.49	0.43
45:FA:155:GLU:HA	45:FA:197:HIS:CE1	2.53	0.43
45:FA:185:TYR:HE2	45:FA:404:PHE:HB2	1.82	0.43
46:FB:65:LEU:HD22	46:FB:90:PHE:CE1	2.52	0.43
45:FE:417:GLU:HA	45:FE:420:GLU:OE1	2.18	0.43
46:FF:65:LEU:HB3	46:FF:73:MET:SD	2.58	0.43
45:FG:2:ARG:HD2	45:FG:242:LEU:O	2.19	0.43
45:FG:104:ALA:HB2	45:FG:413:MET:HE2	2.00	0.43
46:FL:288:GLU:O	46:FL:291:GLN:HG3	2.19	0.43
46:FN:60:VAL:HG11	46:FN:86:ARG:HH21	1.83	0.43
45:GC:52:PHE:CZ	45:GC:239:THR:HG21	2.53	0.43
45:GC:149:LEU:O	45:GC:153:LEU:HD23	2.18	0.43
45:GE:70:LEU:HD13	45:GE:110:ILE:HD12	2.00	0.43
45:GG:221:ARG:NH2	46:GH:320:ARG:HH12	2.16	0.43
45:GG:338:LYS:NZ	45:GG:340:THR:H	2.13	0.43
46:GH:391:ARG:HD2	46:GH:391:ARG:HA	1.73	0.43
45:GM:98:ASP:OD1	45:GM:99:ALA:N	2.51	0.43
45:HA:223:THR:HG23	45:HA:225:THR:H	1.83	0.43
46:HD:391:ARG:HA	46:HD:391:ARG:HD2	1.78	0.43
45:HE:253:THR:O	45:HE:257:THR:HG23	2.18	0.43
47:HE:501:GTP:O1G	46:HF:252:LYS:NZ	2.51	0.43
46:HH:391:ARG:HA	46:HH:391:ARG:HD2	1.80	0.43
46:HL:216:LYS:HB2	46:HL:216:LYS:HE3	1.87	0.43
45:HM:89:PRO:HD3	45:IM:280:LYS:HE2	2.01	0.43
46:HN:178:THR:HG22	46:HN:180:VAL:H	1.83	0.43
45:IA:195:LEU:HD21	45:IA:264:ARG:HE	1.82	0.43
46:ID:123:GLU:OE1	46:ID:123:GLU:HA	2.18	0.43
45:IG:5:ILE:HB	45:IG:135:PHE:CD1	2.53	0.43
45:IG:248:LEU:HD12	45:IG:355:ILE:HD12	1.98	0.43
45:II:329:ASN:HB3	46:IL:175:VAL:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IJ:226:ASN:ND2	49:IJ:501:GDP:HN1	2.14	0.43
46:IN:304:ASP:OD2	46:IN:306:ARG:HG2	2.18	0.43
45:JA:89:PRO:HB2	45:KA:280:LYS:HE3	1.98	0.43
45:JE:68:LEU:HD11	45:JE:118:CYS:SG	2.58	0.43
46:JH:69:GLU:O	46:JH:73:MET:HE1	2.18	0.43
46:KB:174:LYS:NZ	46:KB:380:ARG:HH12	2.16	0.43
46:KB:382:ALA:HB2	46:KB:415:MET:CE	2.49	0.43
45:KC:276:ILE:HD11	45:KC:280:LYS:HG3	2.00	0.43
45:KE:414:GLU:CD	45:KE:416:GLY:H	2.21	0.43
46:KH:5:VAL:HA	46:KH:62:ARG:HG3	2.00	0.43
46:KJ:295:ASP:OD1	46:KJ:296:ALA:N	2.52	0.43
46:KL:9:GLY:HA3	46:KL:66:MET:HG3	2.00	0.43
46:KL:66:MET:HE1	46:KL:147:MET:HB3	2.01	0.43
46:KL:181:GLU:HG3	46:KL:182:PRO:HD3	2.01	0.43
45:KM:309:HIS:CD2	45:NM:282:TYR:HE1	2.37	0.43
45:LA:122:ILE:HG22	45:LA:123:ARG:HH21	1.82	0.43
45:LC:31:GLN:HG2	45:LC:35:GLN:O	2.17	0.43
45:LC:384:ILE:O	45:LC:387:VAL:HG22	2.19	0.43
46:LJ:172:SER:HB2	46:LJ:174:LYS:HZ3	1.84	0.43
45:LK:206:ASN:HB3	45:LK:210:TYR:HE2	1.80	0.43
45:LK:324:VAL:HG23	45:LK:327:ASP:H	1.83	0.43
45:LM:343:PHE:CZ	45:LM:351:PHE:HE1	2.36	0.43
46:LN:286:VAL:N	46:LN:287:PRO:HD2	2.34	0.43
45:MA:384:ILE:HD11	45:MA:432:TYR:OH	2.19	0.43
46:MB:164:MET:O	46:MB:197:ASP:HB2	2.18	0.43
46:MD:282:ARG:HH12	46:MD:292:GLN:NE2	2.17	0.43
45:ME:200:VAL:HG13	45:ME:268:MET:CE	2.48	0.43
45:ME:321:GLY:HA3	45:ME:372:MET:O	2.18	0.43
45:MG:115:VAL:HG21	45:MG:152:LEU:HD22	2.01	0.43
45:MG:345:ASP:OD2	45:MG:346:TRP:N	2.51	0.43
46:MH:386:THR:O	46:MH:390:ARG:HG3	2.18	0.43
46:MJ:42:LEU:HA	46:MJ:45:GLU:OE1	2.18	0.43
45:MK:11:GLN:HG3	45:MK:74:VAL:HG11	2.00	0.43
46:ML:210:ILE:O	46:ML:214:THR:OG1	2.25	0.43
45:NA:79:ARG:O	45:NA:84:ARG:HB3	2.18	0.43
45:NA:288:VAL:HA	45:NA:291:ILE:HG22	2.01	0.43
46:NB:45:GLU:OE1	46:NB:46:ARG:HG3	2.18	0.43
46:NB:376:GLU:OE1	46:NB:376:GLU:N	2.50	0.43
45:NC:4:VAL:HB	45:NC:52:PHE:HE1	1.84	0.43
45:NE:185:TYR:HE1	45:NE:398:MET:HB3	1.83	0.43
46:NH:257:LEU:HA	46:NH:312:THR:HG21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NH:359:LYS:HE2	46:NH:359:LYS:HA	1.99	0.43
45:NK:222:PRO:HD2	46:NL:324:LYS:CE	2.48	0.43
46:NL:313:ALA:HB1	46:NL:367:PHE:HE1	1.83	0.43
45:NM:175:PRO:HD3	45:NM:205:ASP:OD1	2.18	0.43
46:OB:130:LEU:O	46:OB:162:ARG:NH2	2.51	0.43
45:OC:32:PRO:HB3	45:OC:83:TYR:CE1	2.54	0.43
46:OD:181:GLU:OE2	46:OD:181:GLU:HA	2.19	0.43
46:OD:200:MET:HE3	46:OD:266:PHE:C	2.39	0.43
46:OD:290:THR:HA	46:OD:293:MET:HG3	2.01	0.43
45:OE:167:LEU:HD13	45:OE:200:VAL:HB	2.00	0.43
46:OF:55:THR:HG23	46:PF:283:ALA:HA	2.01	0.43
45:OG:387:VAL:O	45:OG:391:LEU:HD23	2.19	0.43
46:OJ:188:SER:O	46:OJ:192:LEU:HD23	2.19	0.43
45:OM:205:ASP:OD1	45:OM:303:ALA:HA	2.17	0.43
46:ON:86:ARG:HA	46:PN:281:TYR:CD1	2.54	0.43
46:PB:91:VAL:HG21	46:PB:116:VAL:HB	2.00	0.43
45:PC:261:PRO:HA	46:PF:394:PHE:CD2	2.53	0.43
46:PD:209:ASP:CB	46:PD:213:ARG:HH22	2.31	0.43
45:PE:154:LEU:HD22	45:PE:166:LYS:HD3	2.01	0.43
46:PF:150:LEU:O	46:PF:154:LYS:HG2	2.18	0.43
45:PI:1:MET:SD	45:PI:2:ARG:HD3	2.59	0.43
45:PK:222:PRO:O	46:PL:322:SER:HB2	2.17	0.43
45:PK:334:THR:O	45:PK:338:LYS:HG2	2.18	0.43
46:PL:8:GLN:HG3	46:PL:14:ASN:HD22	1.83	0.43
46:PL:102:ALA:HA	46:PL:403:MET:CE	2.49	0.43
45:QA:434:GLU:O	45:QA:437:ILE:HG12	2.18	0.43
45:QC:64:ARG:HA	45:QC:125:LEU:HD11	2.00	0.43
45:QG:269:LEU:HD12	45:QG:303:ALA:HB3	2.00	0.43
45:QI:136:LEU:HD12	45:QI:169:PHE:CE2	2.53	0.43
45:QK:88:HIS:O	45:QK:91:GLN:HG3	2.18	0.43
45:QK:419:SER:O	45:QK:422:ARG:N	2.52	0.43
45:QM:85:GLN:H	45:QM:85:GLN:CD	2.22	0.43
45:QM:229:ARG:HH12	45:QM:363:VAL:HG21	1.84	0.43
46:RB:68:LEU:HD23	46:RB:97:ALA:HB2	2.01	0.43
46:RD:138:SER:HA	46:RD:169:VAL:HG23	2.01	0.43
46:RD:167:PHE:CE1	46:RD:200:MET:HB2	2.54	0.43
46:RF:167:PHE:CZ	46:RF:233:MET:HG3	2.54	0.43
45:RG:12:GLY:HA2	45:RG:15:GLN:NE2	2.33	0.43
46:RH:244:GLY:HA3	46:RH:354:CYS:HA	2.00	0.43
45:RI:223:THR:HG23	45:RI:225:THR:H	1.84	0.43
46:RJ:222:TYR:CD1	46:RJ:225:LEU:HD21	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:317:PHE:CD1	46:RJ:365:VAL:HG22	2.54	0.43
45:RK:10:GLY:O	45:RK:14:ILE:HG12	2.17	0.43
45:RK:263:PRO:HD3	46:RL:396:HIS:NE2	2.33	0.43
45:RM:326:LYS:HD3	46:RN:212:PHE:CZ	2.54	0.43
45:SA:268:MET:HB2	45:SA:379:SER:O	2.18	0.43
46:SB:266:PHE:HD1	46:SB:368:VAL:HG12	1.84	0.43
46:SD:408:PHE:O	46:SD:411:ALA:HB3	2.19	0.43
45:SE:324:VAL:HG23	45:SE:327:ASP:HB2	2.00	0.43
46:SH:164:MET:O	46:SH:197:ASP:HB2	2.18	0.43
46:SL:213:ARG:NH1	46:SL:297:LYS:HB3	2.33	0.43
46:SL:345:ILE:HG23	46:SL:348:ASN:HD22	1.84	0.43
46:TB:322:SER:O	45:TC:221:ARG:NH1	2.51	0.43
45:TC:120:ASP:O	45:TC:124:LYS:HG2	2.17	0.43
46:TD:178:THR:HG22	46:TD:180:VAL:H	1.84	0.43
46:TD:319:GLY:O	46:TD:355:ASP:HA	2.19	0.43
45:TE:188:ILE:HG21	45:TE:422:ARG:NH2	2.33	0.43
46:TH:41:ASP:N	46:TH:41:ASP:OD1	2.51	0.43
45:TK:331:SER:O	45:TK:335:ILE:HG12	2.19	0.43
46:TL:19:LYS:HA	46:TL:19:LYS:HE3	2.01	0.43
46:TL:22:GLU:HG2	46:TL:81:PHE:CE2	2.53	0.43
46:TL:73:MET:SD	46:TL:92:PHE:HB3	2.59	0.43
45:UE:275:ILE:HG23	45:UE:368:LEU:HD11	2.01	0.43
46:UJ:117:LEU:O	46:UJ:121:ARG:HG2	2.18	0.43
45:UK:409:VAL:HA	45:UK:413:MET:HB2	1.99	0.43
46:UL:278:SER:O	46:UL:282:ARG:HG3	2.19	0.43
45:UM:18:ASN:O	45:UM:22:GLU:OE1	2.37	0.43
45:UM:432:TYR:HA	45:UM:435:VAL:HG22	2.00	0.43
45:VA:297:GLU:HB3	45:VA:300:ASN:ND2	2.34	0.43
46:VB:11:GLN:HA	46:VB:14:ASN:HD22	1.83	0.43
45:VC:287:SER:O	45:VC:290:GLU:HG2	2.18	0.43
45:VE:171:ILE:HG13	45:VE:204:LEU:HB2	1.99	0.43
45:VE:174:SER:HA	45:VE:205:ASP:OD2	2.19	0.43
46:VF:22:GLU:HG2	46:VF:81:PHE:CD1	2.54	0.43
46:VF:257:LEU:HD11	46:VF:314:SER:HB2	2.00	0.43
45:VG:17:GLY:HA2	45:VG:20:CYS:SG	2.57	0.43
45:VG:326:LYS:HZ2	46:VJ:219:THR:HA	1.82	0.43
45:VI:221:ARG:HD2	46:VJ:322:SER:OG	2.19	0.43
45:VI:386:GLU:OE1	45:VI:387:VAL:HG13	2.17	0.43
45:VK:244:PHE:HB2	45:VK:356:ASN:HD21	1.84	0.43
46:VL:372:THR:HA	46:VL:422:TYR:CE2	2.46	0.43
46:VN:226:ASN:ND2	49:VN:501:GDP:HN1	2.13	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VN:389:PHE:HZ	46:VN:405:GLU:HG2	1.84	0.43
45:WA:172:TYR:CD1	45:WA:173:PRO:HD2	2.54	0.43
46:WB:77:ARG:HG3	46:WB:78:ALA:N	2.34	0.43
45:WC:419:SER:O	45:WC:423:GLU:OE1	2.36	0.43
46:WD:123:GLU:OE1	46:WD:123:GLU:HA	2.17	0.43
46:WD:186:THR:HA	46:WD:189:VAL:HG12	2.00	0.43
46:WD:286:VAL:HA	46:WD:289:LEU:HB2	2.00	0.43
46:WH:211:CYS:SG	46:WH:220:PRO:HB3	2.58	0.43
45:WI:9:VAL:HG13	45:WI:139:ASN:HB3	2.01	0.43
45:WK:117:LEU:O	45:WK:121:ARG:HG2	2.18	0.43
46:WL:167:PHE:CE2	46:WL:200:MET:HG3	2.54	0.43
46:WN:153:SER:O	46:WN:156:ARG:N	2.52	0.43
45:DC:192:HIS:ND1	45:DC:424:ASP:OD2	2.44	0.43
1:0A:17:GLN:NE2	34:7R:46:GLU:O	2.33	0.43
3:0C:95:VAL:HG13	45:EI:364:PRO:HB2	1.99	0.43
9:0N:250:ILE:HD13	45:KK:1:MET:SD	2.58	0.43
21:1L:901:LYS:H	46:CB:320:ARG:NH1	2.14	0.43
25:1R:88:TYR:HE1	45:MC:35:GLN:NE2	2.15	0.43
25:1R:152:LEU:HA	46:AF:78:ALA:O	2.18	0.43
4:2D:81:ARG:NH1	46:EJ:356:ILE:HG23	2.32	0.43
25:2R:224:PHE:CG	46:BJ:80:PRO:HG3	2.53	0.43
14:2V:224:GLN:HB3	46:VH:77:ARG:HH21	1.84	0.43
35:4S:209:ARG:NH2	46:WD:118:ASP:HB2	2.26	0.43
36:5B:62:PRO:O	36:5B:63:THR:OG1	2.31	0.43
36:5C:134:VAL:O	36:5C:134:VAL:HG13	2.18	0.43
37:5E:67:ARG:HA	37:5E:68:PRO:HD3	1.80	0.43
37:5F:9:TYR:CD1	37:5F:10:PRO:HD3	2.54	0.43
10:5Q:79:ILE:O	10:5Q:80:ILE:HD13	2.19	0.43
34:5R:430:LEU:HD12	34:5R:502:ARG:O	2.18	0.43
34:5R:437:ASP:HB2	34:5R:440:ARG:HE	1.83	0.43
35:5S:81:HIS:HB3	45:WE:163:LYS:NZ	2.33	0.43
34:6R:360:TYR:HB3	34:6R:366:LEU:O	2.18	0.43
45:AA:51:THR:HG22	45:AA:52:PHE:CD2	2.53	0.43
45:AA:411:GLU:N	45:AA:411:GLU:OE1	2.52	0.43
46:AB:163:ILE:HD11	46:AB:251:ARG:HG3	2.01	0.43
45:AC:279:GLU:CD	45:AC:279:GLU:H	2.22	0.43
46:AD:135:ILE:HB	46:AD:166:THR:HG22	2.00	0.43
46:AF:107:THR:HG23	46:AF:108:GLU:HG3	2.00	0.43
45:AG:141:VAL:HG12	45:AG:171:ILE:O	2.19	0.43
45:AI:75:ILE:HG21	45:AI:94:SER:HB2	2.00	0.43
45:AI:231:ILE:O	45:AI:235:ILE:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:334:THR:O	45:AI:338:LYS:HG2	2.19	0.43
45:AM:244:PHE:CE1	45:AM:358:GLN:HG3	2.53	0.43
45:BG:101:ASN:HA	45:BG:144:GLY:N	2.33	0.43
45:BK:3:GLU:OE2	45:BK:129:CYS:HB3	2.19	0.43
46:BL:350:LYS:HD3	46:BL:351:SER:N	2.33	0.43
45:BM:288:VAL:HA	45:BM:291:ILE:HG12	2.01	0.43
46:CB:206:ALA:O	46:CB:210:ILE:HG12	2.18	0.43
46:CB:256:ASN:HB3	46:CB:350:LYS:CE	2.48	0.43
46:CB:374:ILE:O	46:CB:377:MET:HG2	2.18	0.43
46:CD:31:ASP:OD1	46:CD:35:THR:N	2.43	0.43
45:CG:175:PRO:HB2	45:CG:176:GLN:OE1	2.18	0.43
46:CH:335:ASN:OD1	46:CH:336:LYS:N	2.51	0.43
45:CI:434:GLU:O	45:CI:437:ILE:HG22	2.18	0.43
45:CK:2:ARG:NE	45:CK:2:ARG:HA	2.33	0.43
45:CK:10:GLY:O	45:CK:14:ILE:HG12	2.18	0.43
45:CM:268:MET:SD	45:CM:380:ASN:HB2	2.59	0.43
46:CN:86:ARG:HB2	46:DN:281:TYR:CD2	2.54	0.43
45:DE:164:LYS:HD3	45:DE:164:LYS:HA	1.88	0.43
45:DG:349:THR:O	46:DH:179:VAL:HG23	2.18	0.43
46:DL:258:ILE:O	46:DL:258:ILE:HG13	2.19	0.43
46:DL:324:LYS:NZ	45:DM:210:TYR:CE1	2.85	0.43
46:DL:347:ASN:ND2	45:DM:178:SER:OG	2.45	0.43
46:DN:312:THR:HG22	46:DN:370:ASN:HB3	2.00	0.43
46:EB:22:GLU:HA	46:EB:81:PHE:HD2	1.83	0.43
45:EC:207:GLU:HA	45:EC:210:TYR:CD2	2.54	0.43
45:EC:331:SER:O	45:EC:335:ILE:HG12	2.19	0.43
45:EE:31:GLN:HG3	45:EE:33:ASP:OD1	2.19	0.43
46:EF:16:ILE:HD13	46:EF:226:ASN:OD1	2.18	0.43
46:EF:288:GLU:O	46:EF:291:GLN:HG3	2.19	0.43
46:EH:313:ALA:HB1	46:EH:367:PHE:HE1	1.83	0.43
45:EI:75:ILE:HG23	45:EI:92:LEU:HB3	2.00	0.43
46:EJ:178:THR:HB	46:EJ:181:GLU:HG3	2.01	0.43
46:EJ:204:ASN:HD22	46:EJ:204:ASN:HA	1.62	0.43
45:EK:317:MET:HB3	45:EK:377:MET:SD	2.59	0.43
45:EK:370:LYS:HA	45:EK:370:LYS:HD2	1.91	0.43
46:EL:282:ARG:NE	46:EL:282:ARG:HA	2.33	0.43
46:EN:67:ASP:OD1	46:EN:68:LEU:N	2.50	0.43
46:FB:248:SER:HA	46:FB:252:LYS:HD2	2.00	0.43
46:FD:31:ASP:OD2	46:FD:33:THR:OG1	2.36	0.43
45:FE:336:LYS:HD3	45:FE:351:PHE:HE1	1.83	0.43
46:FJ:284:LEU:HD21	46:FJ:363:MET:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FK:346:TRP:HZ3	46:FN:393:ALA:HA	1.83	0.43
45:FM:407:TRP:HH2	46:FN:258:ILE:HB	1.84	0.43
45:GA:105:ARG:HH12	46:GB:251:ARG:HE	1.65	0.43
45:GA:276:ILE:HD13	45:GA:286:LEU:HD11	2.00	0.43
45:GA:297:GLU:CD	45:GA:299:ALA:H	2.21	0.43
45:GA:340:THR:HG23	45:GA:341:ILE:HD12	2.01	0.43
46:GB:58:ARG:NH2	46:HB:281:TYR:HA	2.32	0.43
45:GC:118:CYS:O	45:GC:122:ILE:HG12	2.19	0.43
46:GD:382:ALA:O	46:GD:386:THR:HG22	2.18	0.43
45:GE:419:SER:O	45:GE:423:GLU:HG2	2.19	0.43
46:GF:330:MET:SD	46:GF:349:ILE:HG21	2.57	0.43
45:GG:209:ILE:HG23	45:GG:227:LEU:HD22	2.00	0.43
45:GK:212:ILE:HD11	45:GK:300:ASN:HA	2.01	0.43
46:GL:67:ASP:OD1	46:GL:69:GLU:N	2.38	0.43
45:GM:318:MET:SD	45:GM:354:GLY:HA3	2.58	0.43
45:HC:153:LEU:HD23	45:HC:153:LEU:HA	1.81	0.43
45:HE:269:LEU:HD23	45:HE:384:ILE:HD13	2.00	0.43
46:HF:131:GLN:OE1	46:HF:131:GLN:HA	2.19	0.43
46:HH:5:VAL:HG12	46:HH:62:ARG:HD3	2.00	0.43
46:HH:318:ARG:HH11	46:HH:358:PRO:HG3	1.83	0.43
46:HL:200:MET:HE2	46:HL:268:ILE:HG21	2.00	0.43
45:IC:356:ASN:OD1	45:IC:357:TYR:N	2.51	0.43
45:IG:90:GLU:OE1	45:IG:121:ARG:NE	2.52	0.43
45:IG:167:LEU:HD22	45:IG:200:VAL:HB	2.01	0.43
45:IK:384:ILE:O	45:IK:387:VAL:HG22	2.19	0.43
46:IL:391:ARG:HA	46:IL:391:ARG:HD2	1.78	0.43
45:JC:88:HIS:HB3	45:JC:91:GLN:HG2	2.00	0.43
45:JE:180:ALA:HB3	45:JE:183:GLU:HB3	1.99	0.43
45:JI:177:VAL:HG23	46:JJ:327:ASP:HB2	1.99	0.43
46:JJ:52:ASN:OD1	46:JJ:62:ARG:NH2	2.52	0.43
46:JJ:175:VAL:HG13	46:JJ:205:GLU:OE2	2.19	0.43
45:JK:21:TRP:CH2	45:JK:63:PRO:HB3	2.53	0.43
46:JL:299:MET:HE3	46:JL:299:MET:HA	2.00	0.43
46:JN:341:PHE:HD1	46:JN:348:ASN:HD21	1.67	0.43
45:KA:406:HIS:CE1	46:KB:261:PRO:HD3	2.53	0.43
46:KB:181:GLU:HG3	46:KB:182:PRO:HD3	2.01	0.43
45:KC:229:ARG:NH1	45:KC:365:GLY:O	2.52	0.43
45:KE:11:GLN:NE2	47:KE:501:GTP:O1B	2.52	0.43
45:KE:251:ASP:OD2	45:KE:252:ILE:N	2.51	0.43
46:KF:420:SER:O	46:KF:424:GLN:HG2	2.19	0.43
45:KI:22:GLU:HG3	45:KI:83:TYR:OH	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KK:223:THR:HG23	45:KK:225:THR:H	1.84	0.43
46:KL:238:CYS:SG	46:KL:318:ARG:HD3	2.59	0.43
46:KL:407:GLU:HA	46:KL:410:GLU:CG	2.48	0.43
46:LB:310:TYR:CD2	46:LB:371:SER:HB2	2.53	0.43
45:LC:41:THR:HG22	45:LC:41:THR:O	2.19	0.43
45:LG:19:ALA:O	45:LG:22:GLU:HG3	2.18	0.43
45:LG:287:SER:HB3	45:LG:290:GLU:OE1	2.19	0.43
46:LH:270:PHE:HD2	46:LH:273:LEU:HD21	1.82	0.43
46:LH:303:ALA:N	46:LH:377:MET:HE1	2.34	0.43
45:LI:227:LEU:O	45:LI:231:ILE:HG12	2.18	0.43
46:LL:8:GLN:OE1	46:LL:17:GLY:HA3	2.18	0.43
45:MC:184:PRO:O	45:MC:188:ILE:HG12	2.19	0.43
45:MC:287:SER:O	45:MC:291:ILE:HG23	2.19	0.43
46:MD:1:MET:O	46:MD:2:ARG:HG2	2.18	0.43
45:ME:56:THR:HG23	45:ME:58:ALA:H	1.84	0.43
46:ML:183:TYR:O	46:ML:187:LEU:HG	2.19	0.43
46:ML:386:THR:OG1	46:ML:390:ARG:NH2	2.52	0.43
45:NA:56:THR:HG23	45:NA:58:ALA:H	1.83	0.43
45:NA:224:TYR:CD1	47:NA:501:GTP:C6	3.05	0.43
46:NB:414:ASN:O	46:NB:418:LEU:HD23	2.18	0.43
45:NC:22:GLU:HG2	45:NC:83:TYR:OH	2.18	0.43
45:NE:200:VAL:HG13	45:NE:268:MET:CE	2.48	0.43
45:NG:9:VAL:HG13	45:NG:139:ASN:HB3	2.00	0.43
45:NI:167:LEU:HD22	45:NI:200:VAL:HB	2.01	0.43
45:NK:8:HIS:CD2	45:NK:17:GLY:HA3	2.54	0.43
45:NM:183:GLU:N	45:NM:184:PRO:HD2	2.33	0.43
45:NM:237:SER:HA	45:NM:320:ARG:HH11	1.84	0.43
45:OC:192:HIS:ND1	45:OC:421:ALA:HA	2.33	0.43
45:OI:231:ILE:O	45:OI:235:ILE:HG12	2.19	0.43
45:OK:141:VAL:HG22	45:OK:187:SER:HA	2.01	0.43
45:OK:262:TYR:OH	46:ON:391:ARG:O	2.24	0.43
46:OL:32:PRO:HA	46:OL:84:LEU:HD21	2.01	0.43
45:PC:434:GLU:O	45:PC:437:ILE:HG12	2.18	0.43
46:PD:19:LYS:HE2	46:PD:227:HIS:HA	2.01	0.43
46:PD:119:VAL:HG13	46:PD:122:LYS:NZ	2.34	0.43
45:PE:10:GLY:O	45:PE:14:ILE:HG12	2.19	0.43
45:PI:107:HIS:ND1	45:PI:107:HIS:O	2.52	0.43
46:PJ:205:GLU:HG2	46:PJ:206:ALA:N	2.33	0.43
46:PJ:371:SER:O	46:PJ:422:TYR:OH	2.29	0.43
45:PK:268:MET:HB2	45:PK:379:SER:O	2.18	0.43
46:PL:344:TRP:HE3	46:PL:345:ILE:HG23	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PM:88:HIS:HB3	45:PM:91:GLN:CG	2.49	0.43
45:PM:207:GLU:O	45:PM:210:TYR:HB2	2.17	0.43
46:PN:22:GLU:HG2	46:PN:81:PHE:HB2	1.99	0.43
45:QC:88:HIS:HE1	45:QC:90:GLU:HB3	1.83	0.43
46:QD:69:GLU:CD	46:QD:71:GLY:H	2.22	0.43
46:QH:65:LEU:HD22	46:QH:90:PHE:HE1	1.84	0.43
45:QI:175:PRO:HB2	45:QI:176:GLN:OE1	2.18	0.43
46:QL:49:VAL:HG21	46:QL:241:ARG:HG2	2.00	0.43
45:QM:31:GLN:HG3	45:QM:37:PRO:HD3	2.01	0.43
46:QN:282:ARG:NH2	46:QN:292:GLN:OE1	2.46	0.43
46:RF:45:GLU:OE1	46:RF:45:GLU:N	2.39	0.43
46:RF:46:ARG:NH2	45:RG:76:ASP:OD2	2.48	0.43
46:RF:317:PHE:CD1	46:RF:365:VAL:HG22	2.54	0.43
46:RH:384:GLN:OE1	46:RH:384:GLN:HA	2.19	0.43
46:RL:164:MET:HE3	46:RL:196:ALA:HA	2.01	0.43
46:RL:375:GLN:O	46:RL:379:LYS:HG2	2.19	0.43
45:RM:105:ARG:HD2	45:RM:105:ARG:HA	1.88	0.43
45:RM:329:ASN:HB3	46:RN:175:VAL:HG12	2.00	0.43
45:SA:292:THR:HG21	45:SA:331:SER:HB3	2.00	0.43
45:SC:107:HIS:ND1	45:SC:107:HIS:O	2.51	0.43
45:SC:243:ARG:HG3	45:SC:244:PHE:CD2	2.54	0.43
46:SD:27:GLU:HA	46:SD:359:LYS:HD2	2.00	0.43
46:SD:238:CYS:SG	46:SD:239:CYS:N	2.92	0.43
46:SD:285:THR:OG1	46:SD:288:GLU:HG3	2.18	0.43
46:SD:374:ILE:HG12	46:SD:378:PHE:CE1	2.54	0.43
46:SF:174:LYS:HE2	46:SF:205:GLU:CG	2.43	0.43
46:SH:238:CYS:SG	46:SH:239:CYS:N	2.91	0.43
45:SK:88:HIS:O	45:SK:91:GLN:HG2	2.18	0.43
45:SK:399:TYR:HB3	45:SK:422:ARG:NH2	2.32	0.43
45:SM:90:GLU:HG2	45:SM:121:ARG:NH1	2.34	0.43
45:TC:123:ARG:NH2	45:TC:161:TYR:OH	2.51	0.43
45:TE:151:SER:O	45:TE:154:LEU:N	2.52	0.43
45:TE:338:LYS:HA	45:TE:338:LYS:HD2	1.84	0.43
46:TF:286:VAL:HB	46:TF:325:GLU:HG2	2.01	0.43
46:TF:350:LYS:HA	45:TG:179:THR:O	2.19	0.43
45:TG:292:THR:HG21	45:TG:331:SER:HB3	2.00	0.43
46:TH:301:CYS:SG	46:TH:302:ALA:N	2.91	0.43
45:TI:205:ASP:OD1	45:TI:303:ALA:HA	2.18	0.43
46:TJ:315:ALA:HB1	46:TJ:317:PHE:HE2	1.83	0.43
45:TK:11:GLN:HE21	47:TK:501:GTP:PB	2.42	0.43
45:TK:75:ILE:HD12	45:TK:75:ILE:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TM:109:THR:HG21	45:TM:411:GLU:HB2	2.00	0.43
46:TN:238:CYS:SG	46:TN:239:CYS:N	2.92	0.43
46:UB:245:GLN:NE2	45:UC:15:GLN:OE1	2.51	0.43
45:UC:2:ARG:O	45:UC:51:THR:HA	2.19	0.43
45:UC:320:ARG:HB2	45:UC:358:GLN:O	2.19	0.43
46:UD:108:GLU:O	46:UD:111:GLU:HG3	2.18	0.43
45:UE:414:GLU:HG2	45:UE:415:GLU:OE2	2.18	0.43
46:UH:130:LEU:HB3	46:UH:162:ARG:HD3	2.00	0.43
46:UH:406:MET:O	46:UH:410:GLU:HG3	2.19	0.43
45:UK:56:THR:HG23	45:UK:58:ALA:H	1.84	0.43
45:UK:292:THR:HG21	45:UK:331:SER:HB3	1.99	0.43
46:UL:406:MET:O	46:UL:410:GLU:HG3	2.18	0.43
45:UM:83:TYR:N	45:UM:84:ARG:HH11	2.16	0.43
46:UN:180:VAL:HA	46:UN:183:TYR:CD1	2.54	0.43
46:VB:190:HIS:O	46:VB:193:VAL:HG12	2.18	0.43
46:VB:239:CYS:SG	46:VB:247:ASN:HA	2.58	0.43
45:VC:210:TYR:CE2	46:VD:324:LYS:HE3	2.54	0.43
46:VD:221:THR:OG1	46:VD:222:TYR:N	2.51	0.43
46:VH:16:ILE:HD13	46:VH:226:ASN:OD1	2.19	0.43
45:VI:276:ILE:HD11	45:VI:280:LYS:HD2	2.01	0.43
46:VJ:145:SER:HB2	46:VJ:188:SER:HB3	2.00	0.43
46:VL:65:LEU:HD22	46:VL:90:PHE:CE1	2.54	0.43
45:WC:173:PRO:O	45:WC:390:ARG:NH2	2.46	0.43
46:WD:171:PRO:HG3	46:WD:185:ALA:HB2	2.01	0.43
45:WE:387:VAL:HA	45:WE:390:ARG:HG2	1.99	0.43
45:WE:414:GLU:CD	45:WE:416:GLY:H	2.21	0.43
45:WI:67:PHE:HB2	45:WI:92:LEU:HD13	2.00	0.43
45:WI:251:ASP:H	45:WI:254:GLU:HB2	1.83	0.43
46:WJ:238:CYS:SG	46:WJ:239:CYS:N	2.92	0.43
45:WK:51:THR:HG23	45:WK:52:PHE:CD2	2.53	0.43
45:CE:217:LEU:HB3	45:CE:219:ILE:HG12	2.00	0.43
45:CE:288:VAL:HG21	45:CE:327:ASP:CB	2.46	0.43
45:DC:21:TRP:CE3	45:DC:24:PHE:HD2	2.35	0.43
45:DC:155:GLU:O	45:DC:158:SER:OG	2.29	0.43
4:2D:87:GLU:HB3	45:EK:77:GLU:OE2	2.17	0.43
25:2R:235:PHE:CZ	46:CH:216:LYS:HG3	2.54	0.43
14:2V:106:TYR:OH	45:LE:192:HIS:O	2.35	0.43
34:4R:296:GLY:HA3	46:DF:276:ARG:HB3	1.98	0.43
35:4S:70:ASP:OD2	35:4S:71:ARG:N	2.52	0.43
36:5B:32:ALA:O	36:5B:34:PHE:N	2.51	0.43
36:5B:65:THR:HG23	36:5B:68:ASP:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5B:126:ILE:HD12	36:5B:126:ILE:H	1.83	0.43
39:6F:41:TYR:HB3	39:6F:56:LEU:HD12	2.00	0.43
10:6Q:74:PRO:HB3	10:6Q:148:TYR:CZ	2.53	0.43
34:6R:330:SER:N	34:6R:333:ASP:OD2	2.52	0.43
34:6R:383:GLN:HE22	46:DN:83:GLN:HG3	1.84	0.43
45:AE:105:ARG:NH1	46:AF:251:ARG:HD3	2.33	0.43
45:AE:201:ALA:HB3	45:AE:267:PHE:HD1	1.82	0.43
45:AI:88:HIS:ND1	45:AI:90:GLU:HG2	2.33	0.43
45:AI:224:TYR:HE2	46:AJ:246:LEU:HD11	1.82	0.43
46:AJ:6:HIS:NE2	46:AJ:8:GLN:OE1	2.52	0.43
46:AJ:286:VAL:CG2	46:AJ:287:PRO:HD3	2.48	0.43
45:AK:322:ASP:OD1	45:AK:373:ARG:NH1	2.52	0.43
46:AL:184:ASN:OD1	46:AL:185:ALA:N	2.52	0.43
46:AL:213:ARG:HE	46:AL:213:ARG:HB3	1.57	0.43
46:AN:156:ARG:HH22	46:AN:197:ASP:CG	2.22	0.43
46:AN:293:MET:HA	46:AN:298:ASN:ND2	2.34	0.43
45:BC:390:ARG:NH1	45:BC:390:ARG:HG3	2.34	0.43
46:BD:107:THR:OG1	46:BD:401:GLU:OE2	2.21	0.43
46:BD:174:LYS:HD3	46:BD:174:LYS:N	2.34	0.43
45:BK:222:PRO:HG2	46:BL:324:LYS:HE3	2.00	0.43
45:BM:77:GLU:HA	45:BM:80:THR:HG22	2.01	0.43
46:BN:7:ILE:HB	46:BN:135:ILE:HD12	2.00	0.43
46:CB:6:HIS:O	46:CB:63:ALA:HA	2.19	0.43
45:CC:252:ILE:HA	45:CC:255:PHE:CD1	2.54	0.43
46:CF:64:ILE:HA	46:CF:89:ASN:HB3	2.01	0.43
46:CF:186:THR:HA	46:CF:189:VAL:HG12	2.00	0.43
46:CF:345:ILE:O	46:CF:345:ILE:HG13	2.19	0.43
45:CG:121:ARG:HA	45:CG:121:ARG:NH1	2.33	0.43
45:CG:275:ILE:HA	45:CG:368:LEU:HD11	2.00	0.43
45:CG:276:ILE:HD11	45:CG:280:LYS:HG3	2.01	0.43
45:CG:311:LYS:O	45:CG:381:SER:OG	2.28	0.43
46:CL:6:HIS:O	46:CL:63:ALA:HA	2.18	0.43
46:CL:148:GLY:O	46:CL:152:ILE:HG13	2.18	0.43
46:CL:222:TYR:HA	46:CL:225:LEU:HG	2.01	0.43
46:CL:343:GLU:OE2	46:CL:344:TRP:HD1	2.02	0.43
46:CN:22:GLU:HG2	46:CN:81:PHE:CD2	2.53	0.43
46:DF:55:THR:HG23	46:EF:283:ALA:HA	2.01	0.43
45:DG:171:ILE:HG22	45:DG:204:LEU:O	2.18	0.43
46:DH:273:LEU:N	46:DH:292:GLN:OE1	2.38	0.43
45:DK:75:ILE:HD12	45:DK:75:ILE:H	1.83	0.43
46:EB:6:HIS:HB3	46:EB:21:TRP:HZ2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EB:20:PHE:HA	46:EB:230:SER:HB3	1.99	0.43
45:EC:153:LEU:O	45:EC:157:LEU:HD23	2.18	0.43
45:EC:326:LYS:HD2	45:EC:326:LYS:HA	1.81	0.43
46:EF:362:LYS:HE2	46:EF:362:LYS:HB2	1.80	0.43
45:EG:73:THR:O	45:EG:77:GLU:OE1	2.36	0.43
46:EH:213:ARG:HH21	46:EH:297:LYS:CE	2.32	0.43
45:EK:184:PRO:O	45:EK:188:ILE:HG12	2.18	0.43
46:EN:21:TRP:CH2	46:EN:61:PRO:HB3	2.54	0.43
46:EN:178:THR:HG22	46:EN:180:VAL:H	1.83	0.43
45:FA:33:ASP:HB2	45:FA:35:GLN:HE22	1.84	0.43
46:FB:105:HIS:CE1	46:FB:150:LEU:HD12	2.54	0.43
46:FD:143:THR:HG23	46:FD:144:GLY:N	2.34	0.43
46:FH:409:THR:O	46:FH:412:GLU:HG3	2.19	0.43
46:FL:175:VAL:HG23	46:FL:175:VAL:O	2.18	0.43
46:FL:262:ARG:NH1	46:FL:421:GLU:HG3	2.34	0.43
45:GA:221:ARG:NH1	46:GB:325:GLU:HB3	2.34	0.43
46:GB:61:PRO:CD	46:GB:84:LEU:HB3	2.49	0.43
46:GD:28:HIS:C	46:GD:43:GLN:HE21	2.22	0.43
45:GK:22:GLU:HG3	45:GK:83:TYR:CE2	2.53	0.43
45:GK:141:VAL:HG12	45:GK:171:ILE:O	2.19	0.43
46:GN:215:LEU:O	46:GN:216:LYS:HG3	2.18	0.43
45:HA:269:LEU:HD11	45:HA:384:ILE:HD13	2.00	0.43
45:HC:3:GLU:OE2	45:HC:131:GLY:N	2.52	0.43
46:HD:274:THR:HG23	46:HD:279:GLN:OE1	2.18	0.43
46:HL:26:ASP:O	46:HL:359:LYS:NZ	2.35	0.43
46:HL:190:HIS:CD2	46:HL:414:ASN:HD22	2.37	0.43
46:HL:286:VAL:HB	46:HL:325:GLU:OE1	2.19	0.43
45:HM:223:THR:HG23	45:HM:225:THR:H	1.82	0.43
46:HN:33:THR:HA	46:HN:83:GLN:NE2	2.34	0.43
46:HN:205:GLU:HG2	46:HN:206:ALA:N	2.34	0.43
45:IA:119:LEU:HA	45:IA:122:ILE:HG12	2.01	0.43
46:IB:28:HIS:HA	46:IB:43:GLN:OE1	2.18	0.43
45:IC:257:THR:HA	46:IF:397:TRP:CZ3	2.54	0.43
45:IC:286:LEU:HA	45:IC:290:GLU:OE1	2.19	0.43
45:IE:237:SER:HA	45:IE:320:ARG:HH21	1.84	0.43
45:IG:417:GLU:HA	45:IG:420:GLU:OE2	2.17	0.43
46:IH:36:TYR:CE1	46:IH:44:LEU:HD11	2.54	0.43
46:IL:276:ARG:HG3	46:IL:277:GLY:N	2.34	0.43
45:IM:179:THR:HG22	46:IN:350:LYS:NZ	2.33	0.43
45:IM:294:SER:O	45:IM:300:ASN:ND2	2.30	0.43
45:JC:96:LYS:NZ	46:JD:1:MET:SD	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JG:40:LYS:HZ2	45:JG:42:ILE:HD13	1.84	0.43
46:JH:213:ARG:HH12	46:JH:297:LYS:HB3	1.84	0.43
46:JH:342:VAL:HG13	46:JH:345:ILE:HG22	1.99	0.43
45:JI:326:LYS:HA	46:JL:208:TYR:HE1	1.83	0.43
45:JK:35:GLN:N	45:JK:35:GLN:OE1	2.52	0.43
45:JK:149:LEU:O	45:JK:153:LEU:HD23	2.19	0.43
46:JN:212:PHE:CD1	46:JN:213:ARG:HD2	2.54	0.43
45:KA:430:LYS:O	45:KA:434:GLU:HG2	2.18	0.43
46:KB:297:LYS:HA	46:KB:297:LYS:HD2	1.70	0.43
46:KD:282:ARG:HH22	46:KD:292:GLN:HE22	1.66	0.43
46:KD:329:GLN:O	46:KD:333:VAL:HG12	2.18	0.43
46:KH:69:GLU:HA	46:KH:70:PRO:HD3	1.80	0.43
45:KK:71:GLU:HA	45:KK:72:PRO:HD3	1.88	0.43
45:KK:88:HIS:ND1	45:KK:90:GLU:HG2	2.34	0.43
45:KK:426:ALA:O	45:KK:430:LYS:HG3	2.18	0.43
45:KM:2:ARG:HD2	45:KM:242:LEU:O	2.19	0.43
45:KM:56:THR:O	45:LM:285:GLN:HG2	2.18	0.43
45:LA:265:ILE:HG22	45:LA:432:TYR:CE2	2.54	0.43
46:LB:31:ASP:OD2	46:LB:33:THR:OG1	2.36	0.43
45:LC:274:PRO:HG3	45:LC:286:LEU:HD12	2.00	0.43
46:LD:207:LEU:HB3	46:LD:225:LEU:HD22	2.00	0.43
45:LE:387:VAL:HG12	45:LE:390:ARG:NH2	2.33	0.43
46:LF:310:TYR:CD2	46:LF:371:SER:HB2	2.54	0.43
46:LH:138:SER:HA	46:LH:169:VAL:HB	2.01	0.43
45:LI:254:GLU:O	45:LI:352:LYS:NZ	2.50	0.43
45:LI:395:PHE:CD2	45:LI:422:ARG:HD3	2.53	0.43
46:LJ:309:ARG:H	46:LJ:372:THR:HG22	1.84	0.43
45:LM:328:VAL:O	45:LM:332:ILE:HG23	2.19	0.43
46:LN:341:PHE:CE1	46:LN:349:ILE:HD11	2.54	0.43
45:MA:151:SER:O	45:MA:155:GLU:OE1	2.36	0.43
46:MB:289:LEU:HD13	46:MB:365:VAL:HG23	2.00	0.43
46:MH:183:TYR:HA	46:MH:385:PHE:CE1	2.54	0.43
46:MJ:190:HIS:CD2	46:MJ:411:ALA:HA	2.54	0.43
45:MK:163:LYS:HE2	45:MK:163:LYS:HB2	1.87	0.43
45:NA:121:ARG:HA	45:NA:121:ARG:NH1	2.34	0.43
45:NC:8:HIS:CD2	45:NC:17:GLY:HA3	2.53	0.43
46:ND:317:PHE:CE2	46:ND:326:VAL:HG13	2.54	0.43
45:NE:346:TRP:O	46:NH:391:ARG:NH1	2.37	0.43
46:NF:190:HIS:CD2	46:NF:411:ALA:HA	2.54	0.43
46:NJ:6:HIS:O	46:NJ:63:ALA:HA	2.19	0.43
45:NK:19:ALA:O	45:NK:22:GLU:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NL:27:GLU:OE2	46:NL:318:ARG:NH2	2.51	0.43
45:NM:121:ARG:HH11	45:NM:124:LYS:HZ3	1.67	0.43
45:OA:352:LYS:HE2	46:OD:178:THR:HA	2.00	0.43
45:OC:50:ASN:O	45:OC:64:ARG:NH1	2.52	0.43
45:OC:70:LEU:HB3	45:OC:98:ASP:HA	2.00	0.43
45:OC:271:SER:OG	45:OC:301:MET:HA	2.19	0.43
46:OF:100:ASN:HB3	46:OF:103:LYS:HB3	2.01	0.43
46:OF:113:ILE:HA	46:OF:116:VAL:HG12	2.01	0.43
46:OF:233:MET:O	46:OF:236:VAL:HG12	2.19	0.43
45:OI:8:HIS:CD2	45:OI:138:PHE:HD2	2.37	0.43
45:OK:115:VAL:HG11	45:OK:152:LEU:HD23	2.00	0.43
45:OK:317:MET:SD	45:OK:353:VAL:HG12	2.59	0.43
45:OK:320:ARG:NH2	45:OK:358:GLN:OE1	2.45	0.43
45:OK:387:VAL:O	45:OK:391:LEU:HD23	2.19	0.43
46:OL:361:LEU:HD23	46:OL:361:LEU:HA	1.83	0.43
45:OM:21:TRP:CZ3	45:OM:52:PHE:HD1	2.37	0.43
45:OM:51:THR:HG22	45:OM:52:PHE:HD2	1.83	0.43
45:OM:214:ARG:NH2	45:OM:220:GLU:OE2	2.52	0.43
45:OM:389:SER:O	45:OM:393:HIS:ND1	2.52	0.43
45:PC:132:LEU:HD22	45:PC:164:LYS:HZ3	1.82	0.43
46:PD:239:CYS:SG	46:PD:247:ASN:HA	2.58	0.43
45:PE:192:HIS:ND1	45:PE:424:ASP:OD2	2.52	0.43
45:PE:313:MET:HE2	45:PE:313:MET:HB3	1.85	0.43
46:PF:258:ILE:HG13	46:PF:266:PHE:HZ	1.83	0.43
45:PG:34:GLY:O	45:PG:60:LYS:HA	2.19	0.43
45:PG:186:ASN:OD1	45:PG:187:SER:N	2.52	0.43
45:PG:251:ASP:H	45:PG:254:GLU:CG	2.31	0.43
45:PG:387:VAL:HA	45:PG:390:ARG:CD	2.47	0.43
46:PH:232:ALA:HB1	46:PH:268:ILE:HD12	1.99	0.43
46:PJ:3:GLU:OE2	46:PJ:127:CYS:HB2	2.18	0.43
45:PK:32:PRO:HB3	45:PK:83:TYR:CE1	2.54	0.43
45:PK:231:ILE:O	45:PK:235:ILE:HG12	2.19	0.43
46:PL:9:GLY:HA2	46:PL:66:MET:O	2.19	0.43
46:PL:212:PHE:HE1	46:PL:220:PRO:HG2	1.83	0.43
45:QA:136:LEU:HD12	45:QA:167:LEU:O	2.18	0.43
46:QB:86:ARG:HH11	46:RB:281:TYR:HB2	1.84	0.43
45:QC:166:LYS:HD2	45:QC:197:HIS:O	2.18	0.43
46:QH:222:TYR:HA	46:QH:225:LEU:HD12	2.00	0.43
46:QH:273:LEU:O	46:QH:282:ARG:NH2	2.51	0.43
46:QH:325:GLU:OE2	45:QI:221:ARG:HA	2.19	0.43
45:QI:117:LEU:O	45:QI:121:ARG:HG2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QJ:8:GLN:NE2	46:QJ:14:ASN:HA	2.33	0.43
46:QJ:257:LEU:HA	46:QJ:312:THR:HG21	2.00	0.43
45:QK:172:TYR:OH	45:QK:191:THR:HG22	2.18	0.43
46:QL:203:ASP:O	46:QL:207:LEU:HG	2.18	0.43
46:QL:267:MET:CE	46:QL:301:CYS:HB2	2.48	0.43
46:RD:233:MET:O	46:RD:236:VAL:HG12	2.19	0.43
46:RF:330:MET:HA	46:RF:333:VAL:HG12	2.00	0.43
45:RI:99:ALA:HA	45:RI:105:ARG:HG2	2.01	0.43
45:RI:101:ASN:HA	45:RI:144:GLY:H	1.84	0.43
45:RI:184:PRO:O	45:RI:188:ILE:HG12	2.19	0.43
45:RK:226:ASN:ND2	45:RK:367:ASP:OD2	2.52	0.43
45:RK:261:PRO:HA	46:RL:394:PHE:CD1	2.54	0.43
46:RL:224:ASP:O	46:RL:228:LEU:HD13	2.18	0.43
46:RN:100:ASN:ND2	46:RN:102:ALA:HB3	2.34	0.43
46:SB:212:PHE:O	46:SB:216:LYS:HA	2.17	0.43
46:SB:217:LEU:HD12	46:SB:218:THR:N	2.34	0.43
46:SB:318:ARG:HB3	46:SB:357:PRO:HA	2.00	0.43
45:SC:434:GLU:O	45:SC:437:ILE:HG22	2.19	0.43
46:SF:139:LEU:HD22	46:SF:170:VAL:HG22	2.00	0.43
46:SF:153:SER:O	46:SF:157:GLU:OE1	2.36	0.43
46:SF:252:LYS:HZ3	46:SF:252:LYS:HG3	1.64	0.43
46:SF:269:GLY:HA2	46:SF:300:MET:HE2	2.00	0.43
46:SH:403:MET:HG2	46:SH:407:GLU:OE2	2.18	0.43
46:SJ:86:ARG:HD2	46:TJ:282:ARG:NH2	2.33	0.43
46:SJ:131:GLN:O	46:SJ:163:ILE:HG12	2.18	0.43
45:SK:207:GLU:HA	45:SK:210:TYR:HB2	2.01	0.43
46:SL:1:MET:O	46:SL:2:ARG:HG2	2.18	0.43
46:SL:293:MET:HE2	46:SL:367:PHE:HB3	2.01	0.43
45:SM:141:VAL:HG12	45:SM:171:ILE:O	2.19	0.43
46:TB:6:HIS:HB2	46:TB:21:TRP:HZ2	1.84	0.43
45:TC:226:ASN:O	45:TC:230:LEU:HD23	2.18	0.43
46:TD:345:ILE:HG23	46:TD:345:ILE:O	2.18	0.43
46:TF:253:LEU:HA	46:TF:350:LYS:NZ	2.33	0.43
46:TH:9:GLY:HA3	46:TH:66:MET:HE3	2.00	0.43
46:TJ:288:GLU:O	46:TJ:291:GLN:HG3	2.18	0.43
46:TJ:322:SER:H	45:TK:221:ARG:NH2	2.16	0.43
45:TM:384:ILE:O	45:TM:387:VAL:HG22	2.18	0.43
45:UC:313:MET:HB2	45:UC:380:ASN:O	2.19	0.43
46:UD:9:GLY:HA2	46:UD:66:MET:O	2.19	0.43
45:UE:155:GLU:OE1	45:UE:155:GLU:N	2.44	0.43
46:UH:86:ARG:HG3	46:VH:281:TYR:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UI:242:LEU:HD21	45:UI:251:ASP:OD1	2.18	0.43
46:UJ:122:LYS:HG3	46:UJ:123:GLU:N	2.33	0.43
45:UK:24:PHE:CE1	45:UK:52:PHE:HE2	2.36	0.43
46:UL:16:ILE:HD12	46:UL:229:VAL:HG21	2.00	0.43
46:UL:116:VAL:HA	46:UL:119:VAL:HG12	2.01	0.43
46:UL:346:PRO:O	45:UM:394:LYS:NZ	2.47	0.43
46:UN:106:TYR:HE2	46:UN:403:MET:HG2	1.83	0.43
46:VB:295:ASP:OD1	46:VB:297:LYS:HG3	2.18	0.43
46:VB:318:ARG:NE	46:VB:356:ILE:O	2.46	0.43
46:VD:130:LEU:HB3	46:VD:162:ARG:CZ	2.48	0.43
46:VD:317:PHE:CD1	46:VD:365:VAL:HG22	2.54	0.43
46:VD:362:LYS:HA	46:VD:362:LYS:HD3	1.82	0.43
45:VE:47:ASP:HB2	45:VE:50:ASN:OD1	2.19	0.43
45:VE:71:GLU:OE2	45:VE:73:THR:OG1	2.33	0.43
46:VH:253:LEU:O	46:VH:257:LEU:HB2	2.19	0.43
45:VI:171:ILE:HG23	45:VI:204:LEU:O	2.18	0.43
46:VJ:174:LYS:HA	46:VJ:174:LYS:HD3	1.84	0.43
45:WA:119:LEU:O	45:WA:123:ARG:HG2	2.18	0.43
45:WA:184:PRO:O	45:WA:188:ILE:HG12	2.18	0.43
45:WC:334:THR:HG22	45:WC:338:LYS:HZ2	1.84	0.43
45:WE:268:MET:HE1	45:WE:378:ILE:HG22	2.00	0.43
46:WF:154:LYS:HA	46:WF:154:LYS:HD3	1.79	0.43
46:WF:273:LEU:H	46:WF:292:GLN:NE2	2.11	0.43
45:WG:3:GLU:N	45:WG:3:GLU:OE1	2.52	0.43
46:WH:2:ARG:NH1	46:WH:46:ARG:HH22	2.15	0.43
46:WH:238:CYS:SG	46:WH:239:CYS:N	2.92	0.43
46:WJ:108:GLU:O	46:WJ:111:GLU:HG3	2.19	0.43
46:WJ:240:LEU:HD12	46:WJ:249:ASP:HB2	2.01	0.43
46:WJ:328:GLU:HA	46:WJ:331:LEU:HG	2.01	0.43
45:WK:18:ASN:O	45:WK:22:GLU:OE1	2.36	0.43
46:WL:86:ARG:HG2	46:WL:88:ASP:H	1.83	0.43
46:WL:268:ILE:O	46:WL:300:MET:HB2	2.19	0.43
45:CE:69:ASP:OD1	45:CE:75:ILE:HG12	2.18	0.43
7:1G:163:ARG:HA	45:KA:245:ASP:OD2	2.18	0.43
18:1I:28:GLU:OE2	46:JD:216:LYS:HB3	2.18	0.43
21:1L:65:LYS:NZ	45:BI:279:GLU:HG3	2.34	0.43
22:1M:46:LEU:HA	46:IF:78:ALA:O	2.17	0.43
25:1R:258:VAL:HG13	45:CC:41:THR:HG23	2.00	0.43
21:2L:357:ILE:O	34:6R:100:GLN:NE2	2.51	0.43
10:2Q:72:LYS:HD2	35:5S:71:ARG:HD3	1.99	0.43
15:2X:99:VAL:HG12	45:MG:282:TYR:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4R:226:LYS:NZ	34:4R:227:GLU:OE2	2.51	0.43
34:4R:284:THR:HG22	34:4R:308:LYS:HG2	2.00	0.43
35:4S:98:TYR:OH	35:4S:131:GLY:HA2	2.19	0.43
36:5C:23:LEU:O	36:5C:59:TYR:HA	2.19	0.43
37:5G:144:LEU:O	37:5G:147:GLN:HG3	2.18	0.43
37:5G:154:TYR:CE1	46:NL:35:THR:HG23	2.54	0.43
10:5Q:1:MET:H2	10:5Q:3:LYS:HG2	1.84	0.43
34:5R:383:GLN:HE22	46:DJ:58:ARG:HH12	1.66	0.43
40:6G:229:ASN:HB3	40:6G:230:TYR:CD1	2.54	0.43
40:6G:253:HIS:HA	40:6G:256:LYS:HG2	2.01	0.43
34:6R:207:ASP:O	34:6R:210:GLU:HG3	2.18	0.43
34:7R:149:GLN:HB3	34:7R:159:TYR:CD1	2.54	0.43
45:AC:231:ILE:O	45:AC:235:ILE:HG12	2.19	0.43
45:AC:430:LYS:HD3	45:AC:430:LYS:HA	1.83	0.43
46:AD:51:TYR:HE1	46:AD:61:PRO:HG3	1.83	0.43
46:AD:167:PHE:CZ	46:AD:233:MET:HG2	2.54	0.43
46:AD:257:LEU:HD21	46:AD:314:SER:OG	2.18	0.43
45:AE:224:TYR:HE2	46:AF:246:LEU:HD11	1.84	0.43
45:AE:280:LYS:HB3	45:ME:89:PRO:HG2	2.00	0.43
45:AG:71:GLU:HA	45:AG:72:PRO:HD3	1.89	0.43
46:AH:139:LEU:HD13	46:AH:168:SER:OG	2.19	0.43
46:AH:242:PHE:CD1	46:AH:356:ILE:HG13	2.53	0.43
45:AI:210:TYR:CE1	45:AI:227:LEU:HD11	2.53	0.43
46:AJ:274:THR:HG23	46:AJ:279:GLN:HG3	2.00	0.43
45:AK:120:ASP:O	45:AK:124:LYS:HG2	2.19	0.43
45:BA:186:ASN:OD1	45:BA:187:SER:N	2.51	0.43
45:BA:296:PHE:CE1	45:BA:335:ILE:HG21	2.54	0.43
46:BB:66:MET:HA	46:BB:91:VAL:HG23	2.00	0.43
45:BC:174:SER:HB3	45:BC:207:GLU:OE2	2.18	0.43
45:BE:97:GLU:OE1	45:BE:97:GLU:N	2.52	0.43
46:BF:164:MET:H	46:BF:197:ASP:HB2	1.83	0.43
46:BF:375:GLN:OE1	46:BF:423:GLN:HB3	2.19	0.43
46:BF:395:LEU:O	46:BF:399:THR:HG23	2.19	0.43
46:BH:201:VAL:HG23	46:BH:301:CYS:SG	2.59	0.43
46:BJ:154:LYS:O	46:BJ:157:GLU:HG2	2.18	0.43
46:BJ:372:THR:HA	46:BJ:422:TYR:CE2	2.50	0.43
46:BJ:391:ARG:HA	46:BJ:391:ARG:HD2	1.78	0.43
46:BL:18:ALA:O	46:BL:22:GLU:HG3	2.18	0.43
46:BL:390:ARG:CZ	46:BL:390:ARG:HA	2.48	0.43
46:BN:66:MET:HA	46:BN:91:VAL:O	2.19	0.43
45:CA:255:PHE:O	45:CA:259:LEU:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CB:326:VAL:O	46:CB:330:MET:HG2	2.19	0.43
46:CB:327:ASP:HB3	45:CC:177:VAL:CG2	2.48	0.43
45:CC:320:ARG:HB2	45:CC:358:GLN:O	2.19	0.43
45:CC:387:VAL:HG23	45:CC:390:ARG:NH2	2.33	0.43
46:CD:261:PRO:HD3	45:CE:406:HIS:CD2	2.52	0.43
46:CF:293:MET:SD	46:CF:365:VAL:HG11	2.58	0.43
45:CG:185:TYR:O	45:CG:188:ILE:HG22	2.18	0.43
46:CJ:376:GLU:O	46:CJ:379:LYS:HG3	2.18	0.43
46:CL:48:ASN:OD1	46:CL:48:ASN:N	2.51	0.43
46:CL:173:PRO:HD2	46:CL:380:ARG:NH1	2.33	0.43
46:CN:268:ILE:HG22	46:CN:368:VAL:HG22	2.00	0.43
46:DB:69:GLU:HA	46:DB:70:PRO:HD3	1.88	0.43
46:DB:200:MET:CE	46:DB:266:PHE:HB2	2.47	0.43
46:DD:6:HIS:HB3	46:DD:63:ALA:HB2	2.01	0.43
46:DD:8:GLN:O	46:DD:66:MET:HG3	2.18	0.43
46:DD:25:SER:OG	46:DD:30:ILE:O	2.36	0.43
46:DD:293:MET:SD	46:DD:365:VAL:HG11	2.59	0.43
46:DF:281:TYR:CD2	46:DF:281:TYR:CB	2.84	0.43
45:DG:17:GLY:HA2	45:DG:20:CYS:SG	2.59	0.43
45:DG:260:VAL:HG23	46:DH:397:TRP:HZ2	1.83	0.43
46:DJ:201:VAL:HG23	46:DJ:301:CYS:SG	2.58	0.43
45:DM:171:ILE:HG13	45:DM:204:LEU:HB2	2.01	0.43
46:EB:2:ARG:HG3	46:EB:131:GLN:OE1	2.19	0.43
46:EB:332:ASN:HB3	46:EB:336:LYS:HZ2	1.84	0.43
46:ED:6:HIS:O	46:ED:63:ALA:HA	2.19	0.43
46:ED:275:SER:OG	46:ED:278:SER:HB3	2.18	0.43
46:EF:208:TYR:CE1	46:EF:225:LEU:HD11	2.54	0.43
46:EF:268:ILE:HG22	46:EF:368:VAL:HG22	2.01	0.43
45:EG:156:ARG:HH11	45:EG:156:ARG:HA	1.83	0.43
45:EG:213:CYS:SG	45:EG:222:PRO:HG3	2.58	0.43
46:EH:293:MET:CG	46:EH:365:VAL:HG11	2.49	0.43
45:EK:141:VAL:HG12	45:EK:171:ILE:O	2.18	0.43
45:EM:384:ILE:O	45:EM:387:VAL:HG22	2.19	0.43
45:FE:384:ILE:O	45:FE:387:VAL:HG22	2.19	0.43
46:FF:117:LEU:CD2	46:FF:121:ARG:HD2	2.48	0.43
46:FH:403:MET:HG3	46:FH:407:GLU:OE1	2.19	0.43
46:FL:270:PHE:HD2	46:FL:273:LEU:HD21	1.84	0.43
46:FL:293:MET:HE1	46:FL:315:ALA:CB	2.49	0.43
46:FL:391:ARG:HD2	46:FL:391:ARG:HA	1.81	0.43
45:GC:171:ILE:HG23	45:GC:204:LEU:O	2.19	0.43
45:GC:320:ARG:NH2	45:GC:360:PRO:HA	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GD:262:ARG:NH1	46:GD:421:GLU:OE1	2.51	0.43
45:GG:123:ARG:NH2	45:GG:124:LYS:HB2	2.34	0.43
46:GJ:66:MET:HE3	46:GJ:147:MET:HG3	1.99	0.43
45:GK:70:LEU:HD12	45:GK:145:THR:HG22	2.01	0.43
46:GL:354:CYS:SG	46:GL:356:ILE:HG22	2.58	0.43
45:GM:88:HIS:ND1	45:GM:90:GLU:HG2	2.34	0.43
46:HB:105:HIS:CE1	46:HB:150:LEU:HD12	2.53	0.43
45:HC:221:ARG:HH22	46:HD:322:SER:H	1.67	0.43
45:HC:345:ASP:OD2	45:HC:438:GLU:HG2	2.19	0.43
45:HC:377:MET:SD	45:HC:379:SER:HB2	2.59	0.43
46:HD:154:LYS:O	46:HD:157:GLU:HG2	2.18	0.43
46:HD:405:GLU:HA	46:HD:408:PHE:HD2	1.83	0.43
46:HJ:162:ARG:HA	46:HJ:162:ARG:HD3	1.80	0.43
46:HJ:190:HIS:CD2	46:HJ:414:ASN:HD22	2.37	0.43
45:IA:115:VAL:O	45:IA:119:LEU:HG	2.19	0.43
45:IA:352:LYS:NZ	46:ID:179:VAL:H	2.14	0.43
45:IC:96:LYS:NZ	46:ID:129:CYS:SG	2.65	0.43
46:IF:66:MET:HE1	46:IF:147:MET:HG2	2.00	0.43
46:IF:113:ILE:HA	46:IF:116:VAL:HG12	2.01	0.43
46:IF:134:GLN:HA	46:IF:165:GLU:HB3	2.00	0.43
46:IH:318:ARG:HD2	46:IH:354:CYS:HB3	2.01	0.43
46:IN:313:ALA:HB1	46:IN:367:PHE:HE1	1.83	0.43
45:JA:352:LYS:NZ	46:JD:99:ASN:OD1	2.51	0.43
46:JH:12:CYS:SG	46:JH:169:VAL:HG21	2.59	0.43
46:JH:409:THR:O	46:JH:412:GLU:HG3	2.19	0.43
45:JI:10:GLY:O	45:JI:14:ILE:HG12	2.19	0.43
46:JJ:105:HIS:HD1	46:JJ:106:TYR:HD1	1.67	0.43
46:JL:332:ASN:O	46:JL:336:LYS:HE2	2.17	0.43
46:JN:207:LEU:HG	46:JN:225:LEU:HD22	2.01	0.43
46:KB:77:ARG:HD3	46:KB:90:PHE:CZ	2.53	0.43
45:KG:152:LEU:HD12	45:KG:152:LEU:HA	1.89	0.43
45:KG:335:ILE:HA	45:KG:338:LYS:NZ	2.33	0.43
46:KH:263:LEU:HG	46:KH:422:TYR:CE1	2.54	0.43
45:KI:90:GLU:O	45:KI:90:GLU:HG3	2.19	0.43
45:KK:103:PHE:HB2	45:KK:186:ASN:HB3	2.01	0.43
46:KN:151:LEU:O	46:KN:155:VAL:HG22	2.19	0.43
45:LA:90:GLU:O	45:LA:121:ARG:NH1	2.52	0.43
46:LB:256:ASN:HD22	46:LB:350:LYS:HD2	1.84	0.43
45:LE:133:GLN:HB3	45:LE:252:ILE:HD13	2.00	0.43
46:LF:68:LEU:HD12	46:LF:97:ALA:HB2	1.99	0.43
46:LF:87:PRO:HA	46:LF:90:PHE:HD2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LG:55:GLU:OE2	45:LG:56:THR:N	2.52	0.43
45:LG:331:SER:O	45:LG:335:ILE:HG12	2.19	0.43
45:LI:224:TYR:HE2	46:LJ:246:LEU:HD11	1.84	0.43
45:LI:408:TYR:HB3	45:LI:413:MET:CE	2.49	0.43
45:LK:384:ILE:O	45:LK:387:VAL:HG22	2.18	0.43
46:LN:122:LYS:HE2	46:MN:291:GLN:HE22	1.84	0.43
46:LN:130:LEU:HD12	46:LN:131:GLN:N	2.34	0.43
45:MA:109:THR:O	45:MA:112:LYS:NZ	2.50	0.43
45:MA:387:VAL:O	45:MA:391:LEU:HD23	2.19	0.43
45:MC:345:ASP:OD1	45:MC:346:TRP:N	2.52	0.43
46:MD:229:VAL:HG12	46:MD:233:MET:CE	2.49	0.43
46:MD:257:LEU:HD23	46:MD:266:PHE:CZ	2.53	0.43
46:MD:330:MET:HE2	46:MD:330:MET:HB3	1.90	0.43
46:MJ:222:TYR:HD2	49:MJ:501:GDP:C6	2.37	0.43
45:MM:224:TYR:HE2	46:MN:323:THR:HG21	1.84	0.43
46:MN:67:ASP:OD1	46:MN:68:LEU:N	2.51	0.43
45:NE:265:ILE:HG22	45:NE:380:ASN:HD21	1.84	0.43
45:NE:330:ALA:O	45:NE:334:THR:HG23	2.19	0.43
45:NE:371:VAL:HG22	45:NE:373:ARG:H	1.84	0.43
46:NH:322:SER:HB3	46:NH:325:GLU:OE1	2.17	0.43
45:NI:398:MET:CE	46:NJ:345:ILE:HD12	2.49	0.43
46:NJ:164:MET:N	46:NJ:197:ASP:OD1	2.51	0.43
45:NK:177:VAL:HG12	46:NL:331:LEU:HD11	2.01	0.43
45:NK:345:ASP:OD1	45:NK:346:TRP:N	2.52	0.43
45:OA:332:ILE:HG23	45:OA:351:PHE:CE2	2.54	0.43
46:OB:217:LEU:H	46:OB:217:LEU:HD23	1.84	0.43
45:OC:2:ARG:HG3	45:OC:133:GLN:CD	2.38	0.43
45:OC:182:VAL:O	45:OC:182:VAL:HG12	2.18	0.43
45:OE:190:SER:O	45:OE:194:LEU:HG	2.19	0.43
45:OE:268:MET:HG3	45:OE:380:ASN:HB2	2.01	0.43
46:OJ:117:LEU:HA	46:OJ:120:VAL:HG12	1.99	0.43
45:OK:384:ILE:O	45:OK:387:VAL:HG12	2.19	0.43
45:OK:434:GLU:O	45:OK:437:ILE:HG22	2.18	0.43
46:ON:201:VAL:HG12	46:ON:266:PHE:O	2.19	0.43
45:PA:14:ILE:HG13	45:PA:67:PHE:CD1	2.54	0.43
45:PA:30:ILE:HD11	45:PA:34:GLY:C	2.38	0.43
45:PA:268:MET:HE2	45:PA:380:ASN:HB2	2.00	0.43
45:PA:377:MET:HE3	45:PA:378:ILE:H	1.84	0.43
45:PA:430:LYS:HA	45:PA:433:GLU:HG2	1.99	0.43
46:PB:312:THR:HG22	46:PB:370:ASN:HB3	2.00	0.43
46:PD:164:MET:SD	46:PD:196:ALA:HA	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PD:322:SER:OG	46:PD:325:GLU:OE1	2.34	0.43
45:PE:32:PRO:HB3	45:PE:83:TYR:HE1	1.84	0.43
45:PE:117:LEU:O	45:PE:121:ARG:HG2	2.17	0.43
46:PF:186:THR:HA	46:PF:189:VAL:HG12	2.01	0.43
45:PG:10:GLY:O	45:PG:14:ILE:HG12	2.18	0.43
46:PL:145:SER:HB2	46:PL:188:SER:HB3	2.01	0.43
46:PL:272:PRO:HD3	46:PL:289:LEU:HD11	2.00	0.43
46:PN:215:LEU:O	46:PN:215:LEU:HD23	2.18	0.43
45:QA:346:TRP:HB3	46:QB:390:ARG:CZ	2.48	0.43
46:QB:147:MET:O	46:QB:150:LEU:HG	2.19	0.43
45:QC:326:LYS:HE2	46:QD:220:PRO:HD2	1.99	0.43
46:QD:2:ARG:NH1	45:QE:72:PRO:HD2	2.33	0.43
45:QE:174:SER:HB3	45:QE:175:PRO:HD2	2.01	0.43
45:QG:386:GLU:O	45:QG:390:ARG:HG2	2.19	0.43
46:QH:201:VAL:HG23	46:QH:301:CYS:SG	2.58	0.43
45:QI:242:LEU:HD21	45:QI:251:ASP:HA	2.01	0.43
45:QI:288:VAL:HG21	45:QI:327:ASP:HB3	1.99	0.43
46:QJ:139:LEU:HD13	46:QJ:168:SER:HB3	2.00	0.43
45:QK:339:ARG:HH21	45:QK:342:GLN:HB3	1.83	0.43
46:QL:252:LYS:HA	45:QM:100:ALA:HB1	2.01	0.43
46:QL:274:THR:HB	46:QL:282:ARG:NH1	2.33	0.43
46:QL:376:GLU:O	46:QL:380:ARG:HG2	2.19	0.43
45:QM:17:GLY:O	45:QM:21:TRP:HE3	2.02	0.43
45:RC:28:HIS:NE2	45:RC:243:ARG:HD2	2.34	0.43
46:RD:321:MET:N	46:RD:321:MET:SD	2.92	0.43
45:RE:55:GLU:CD	45:RE:57:GLY:H	2.22	0.43
46:RF:267:MET:HE2	46:RF:299:MET:HB3	2.01	0.43
46:RH:313:ALA:HB1	46:RH:367:PHE:CE1	2.54	0.43
46:RJ:255:VAL:HG21	45:RK:100:ALA:O	2.19	0.43
45:RM:77:GLU:HA	45:RM:80:THR:OG1	2.18	0.43
45:RM:102:ASN:HD22	45:RM:105:ARG:HG2	1.82	0.43
45:RM:212:ILE:HD11	45:RM:300:ASN:HA	1.99	0.43
45:SA:211:ASP:HA	45:SA:214:ARG:HG3	2.01	0.43
46:SB:288:GLU:HG3	46:SB:291:GLN:HE21	1.84	0.43
45:SC:64:ARG:NH1	45:SC:129:CYS:SG	2.92	0.43
45:SC:127:ASP:OD1	45:SC:128:ASN:N	2.51	0.43
45:SC:274:PRO:HD3	45:SC:291:ILE:HD11	1.99	0.43
45:SE:34:GLY:O	45:SE:60:LYS:HA	2.18	0.43
46:SF:175:VAL:CG2	46:SF:205:GLU:HB2	2.48	0.43
45:SG:317:MET:HB3	45:SG:377:MET:HG2	2.00	0.43
45:SI:80:THR:HA	45:SI:84:ARG:NH1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SI:322:ASP:OD1	45:SI:373:ARG:NH1	2.50	0.43
46:SL:22:GLU:HA	46:SL:81:PHE:CD2	2.54	0.43
46:TB:52:ASN:OD1	46:TB:62:ARG:NH2	2.52	0.43
46:TD:1:MET:O	46:TD:2:ARG:HG2	2.19	0.43
45:TE:174:SER:OG	45:TE:207:GLU:HB2	2.19	0.43
46:TF:207:LEU:HA	46:TF:210:ILE:HG12	2.01	0.43
46:TH:31:ASP:OD2	46:TH:33:THR:OG1	2.37	0.43
45:TK:2:ARG:HA	45:TK:133:GLN:HE22	1.83	0.43
45:TK:141:VAL:HG22	45:TK:187:SER:HA	2.00	0.43
46:TL:207:LEU:HB3	46:TL:225:LEU:HD22	2.01	0.43
46:TL:233:MET:O	46:TL:236:VAL:HG12	2.19	0.43
46:TL:375:GLN:HB3	46:TL:422:TYR:CE2	2.53	0.43
45:TM:169:PHE:HD1	45:TM:204:LEU:HD11	1.84	0.43
46:TN:97:ALA:HB3	46:TN:143:THR:HB	1.99	0.43
46:TN:313:ALA:HB1	46:TN:367:PHE:HE1	1.83	0.43
45:UA:141:VAL:HG12	45:UA:171:ILE:O	2.19	0.43
46:UD:70:PRO:HG3	46:UD:92:PHE:HB2	2.00	0.43
45:UE:211:ASP:O	45:UE:214:ARG:HG3	2.19	0.43
46:UF:1:MET:O	46:UF:2:ARG:HG2	2.18	0.43
46:UF:124:ALA:HB1	46:UF:130:LEU:HD11	2.01	0.43
45:UG:263:PRO:HB2	45:UG:264:ARG:NH2	2.33	0.43
46:UH:193:VAL:HA	46:UH:264:HIS:HE1	1.83	0.43
46:UJ:107:THR:HG1	46:UJ:108:GLU:N	2.17	0.43
45:UK:72:PRO:HG3	45:UK:95:GLY:O	2.19	0.43
46:UL:130:LEU:H	46:UL:130:LEU:HD23	1.83	0.43
45:UM:133:GLN:O	45:UM:165:SER:OG	2.36	0.43
45:UM:324:VAL:CG1	45:UM:326:LYS:HG2	2.49	0.43
45:VA:111:GLY:O	45:VA:115:VAL:HG13	2.18	0.43
45:VA:317:MET:SD	45:VA:377:MET:HG2	2.58	0.43
46:VB:28:HIS:C	46:VB:43:GLN:HE21	2.23	0.43
46:VB:163:ILE:HD11	46:VB:251:ARG:HG3	2.01	0.43
45:VC:8:HIS:ND1	45:VC:67:PHE:HE2	2.17	0.43
45:VE:147:SER:HB2	45:VE:190:SER:HB3	2.00	0.43
46:VF:21:TRP:CZ2	46:VF:63:ALA:HB2	2.54	0.43
45:VI:150:GLY:O	45:VI:154:LEU:HD23	2.19	0.43
46:VJ:105:HIS:CE1	46:VJ:150:LEU:HD12	2.54	0.43
46:VJ:325:GLU:HA	46:VJ:328:GLU:CG	2.44	0.43
46:VJ:384:GLN:O	46:VJ:388:MET:HG2	2.19	0.43
46:VL:384:GLN:O	46:VL:388:MET:HG2	2.19	0.43
45:VM:88:HIS:ND1	45:VM:90:GLU:HG2	2.34	0.43
45:VM:408:TYR:HB3	45:VM:413:MET:SD	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VN:164:MET:SD	46:VN:196:ALA:HA	2.59	0.43
46:VN:389:PHE:HD2	46:VN:390:ARG:HH21	1.66	0.43
46:WB:267:MET:CE	46:WB:301:CYS:HB2	2.49	0.43
46:WB:276:ARG:HA	46:WB:279:GLN:HE22	1.84	0.43
45:WC:98:ASP:OD1	45:WC:99:ALA:N	2.51	0.43
45:WE:175:PRO:HA	45:WE:390:ARG:CZ	2.49	0.43
45:WE:210:TYR:CE1	45:WE:227:LEU:HD21	2.54	0.43
46:WF:68:LEU:HD23	46:WF:143:THR:OG1	2.19	0.43
46:WF:258:ILE:O	46:WF:258:ILE:HG13	2.18	0.43
46:WF:383:GLU:HA	46:WF:386:THR:HG22	2.00	0.43
46:WH:210:ILE:O	46:WH:214:THR:OG1	2.25	0.43
45:WI:71:GLU:HA	45:WI:72:PRO:HD3	1.90	0.43
45:WI:324:VAL:HG12	45:WI:326:LYS:H	1.84	0.43
45:WI:326:LYS:HD2	46:WL:208:TYR:CB	2.46	0.43
45:WI:398:MET:N	45:WI:398:MET:HE2	2.34	0.43
46:WL:324:LYS:HB3	46:WL:324:LYS:HE2	1.87	0.43
45:DC:75:ILE:O	45:DC:79:ARG:HG2	2.18	0.43
4:OD:187:PHE:HE1	46:FB:320:ARG:HD3	1.84	0.43
1:1A:39:TYR:OH	45:ME:78:VAL:HG13	2.19	0.43
25:1R:390:ASP:OD2	46:ED:219:THR:OG1	2.27	0.43
1:2A:3:GLN:HE21	34:5R:7:LYS:C	2.21	0.43
23:2O:210:ILE:HG12	45:VI:279:GLU:OE2	2.18	0.43
25:2R:112:GLU:HG3	46:BJ:284:LEU:HD11	2.01	0.43
11:3S:42:ASN:ND2	45:WK:125:LEU:HA	2.34	0.43
34:4R:432:SER:HG	34:4R:433:GLN:H	1.60	0.43
35:4S:65:PHE:CE1	35:4S:74:LEU:HD21	2.54	0.43
15:4X:39:LYS:HE3	15:4X:39:LYS:HB2	1.73	0.43
37:5F:134:ILE:HA	37:5F:137:VAL:CG1	2.42	0.43
34:5R:152:LYS:HG2	34:5R:160:TYR:CE1	2.53	0.43
39:6F:26:TRP:CE3	39:6F:30:ARG:HD3	2.53	0.43
40:6G:94:VAL:HG11	40:6G:97:ASP:OD2	2.19	0.43
10:6Q:25:TRP:HE3	10:6Q:59:ILE:HG22	1.83	0.43
34:7R:116:CYS:HB3	34:7R:131:GLU:HB3	2.00	0.43
46:AB:87:PRO:HA	46:AB:90:PHE:CD2	2.53	0.43
45:AC:5:ILE:HB	45:AC:135:PHE:CD1	2.53	0.43
45:AC:19:ALA:HA	45:AC:22:GLU:OE1	2.19	0.43
46:AD:154:LYS:O	46:AD:157:GLU:HG3	2.19	0.43
46:AD:350:LYS:HA	46:AD:350:LYS:HD2	1.79	0.43
45:AE:5:ILE:HB	45:AE:135:PHE:CD1	2.53	0.43
45:AE:241:SER:OG	45:AE:250:VAL:O	2.22	0.43
45:AG:147:SER:HB2	45:AG:190:SER:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:71:GLU:OE2	46:AJ:247:ASN:ND2	2.51	0.43
45:AK:32:PRO:HB3	45:AK:83:TYR:HE1	1.84	0.43
46:AN:3:GLU:OE2	46:AN:127:CYS:HB2	2.19	0.43
46:AN:102:ALA:HB2	46:AN:403:MET:HE2	2.01	0.43
46:AN:233:MET:O	46:AN:236:VAL:HG12	2.19	0.43
46:AN:288:GLU:O	46:AN:291:GLN:HG3	2.19	0.43
45:BA:217:LEU:HB3	45:BA:219:ILE:HG23	2.01	0.43
46:BB:9:GLY:HA2	46:BB:66:MET:O	2.19	0.43
46:BB:116:VAL:HA	46:BB:119:VAL:HG12	2.00	0.43
46:BB:316:LEU:HB2	46:BB:366:THR:HG23	2.00	0.43
46:BB:391:ARG:HA	46:BB:391:ARG:HD2	1.78	0.43
45:BE:101:ASN:ND2	45:BE:143:GLY:HA2	2.32	0.43
45:BE:254:GLU:OE2	46:BH:98:GLY:HA2	2.19	0.43
46:BF:232:ALA:HB1	46:BF:268:ILE:HD12	2.01	0.43
45:BG:174:SER:HB2	45:BG:177:VAL:O	2.19	0.43
46:BH:68:LEU:HA	46:BH:93:GLY:H	1.83	0.43
46:BH:345:ILE:HG13	46:BH:345:ILE:O	2.19	0.43
45:BI:91:GLN:CG	45:BI:121:ARG:HH12	2.30	0.43
45:BI:103:PHE:CD2	45:BI:189:LEU:HD13	2.54	0.43
46:BJ:150:LEU:O	46:BJ:154:LYS:HG2	2.18	0.43
45:BK:384:ILE:O	45:BK:387:VAL:HG22	2.19	0.43
46:CB:116:VAL:HA	46:CB:119:VAL:HG12	2.00	0.43
46:CB:379:LYS:O	46:CB:382:ALA:N	2.51	0.43
45:CC:196:GLU:HG2	45:CC:197:HIS:CD2	2.54	0.43
46:CF:347:ASN:OD1	45:CG:178:SER:OG	2.24	0.43
45:CG:239:THR:HG23	45:CG:243:ARG:HE	1.84	0.43
46:CH:73:MET:HB2	46:CH:90:PHE:HE1	1.81	0.43
45:CI:288:VAL:HA	45:CI:291:ILE:HG12	2.00	0.43
46:CL:20:PHE:O	46:CL:24:ILE:HG12	2.18	0.43
46:CL:122:LYS:HG3	46:CL:123:GLU:OE1	2.18	0.43
46:CL:326:VAL:O	46:CL:330:MET:HG2	2.19	0.43
46:CN:73:MET:HE1	46:CN:92:PHE:HB3	2.00	0.43
46:CN:139:LEU:HD13	46:CN:168:SER:HB3	2.00	0.43
46:CN:200:MET:SD	46:CN:268:ILE:HD13	2.59	0.43
46:DD:390:ARG:HA	46:DD:390:ARG:HH11	1.84	0.43
46:DF:289:LEU:HD23	46:DF:289:LEU:HA	1.85	0.43
46:DH:58:ARG:CZ	46:EH:281:TYR:HE1	2.32	0.43
46:DH:258:ILE:HG13	46:DH:258:ILE:O	2.18	0.43
45:DK:141:VAL:HG11	45:DK:172:TYR:HA	2.00	0.43
46:DL:31:ASP:HB3	46:DL:37:HIS:CD2	2.54	0.43
45:DM:167:LEU:HG	45:DM:200:VAL:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:100:ASN:ND2	46:DN:102:ALA:HB3	2.34	0.43
45:EC:75:ILE:HG21	45:EC:94:SER:HB2	2.00	0.43
46:ED:118:ASP:O	46:ED:122:LYS:HG3	2.18	0.43
46:ED:267:MET:CE	46:ED:301:CYS:HB2	2.49	0.43
46:ED:407:GLU:O	46:ED:410:GLU:HG3	2.19	0.43
45:EE:10:GLY:O	45:EE:14:ILE:HG12	2.18	0.43
45:EE:107:HIS:ND1	45:EE:107:HIS:O	2.52	0.43
46:EF:254:ALA:O	46:EF:258:ILE:HG12	2.18	0.43
46:EF:288:GLU:HA	46:EF:291:GLN:HG3	2.00	0.43
46:EH:32:PRO:HA	46:EH:84:LEU:HD11	2.00	0.43
46:EH:233:MET:O	46:EH:236:VAL:HG12	2.19	0.43
45:EI:223:THR:HG23	45:EI:225:THR:H	1.83	0.43
45:EK:318:MET:HB2	45:EK:376:CYS:SG	2.58	0.43
45:EM:265:ILE:HG23	45:EM:432:TYR:HE1	1.83	0.43
45:EM:288:VAL:O	45:EM:292:THR:HG23	2.19	0.43
46:EN:99:ASN:HA	46:EN:142:GLY:H	1.84	0.43
45:FA:74:VAL:HA	45:FA:77:GLU:OE2	2.18	0.43
45:FA:244:PHE:CE1	45:FA:358:GLN:HG3	2.54	0.43
45:FC:296:PHE:CE2	45:FC:335:ILE:HG21	2.53	0.43
46:FD:288:GLU:O	46:FD:291:GLN:HG3	2.19	0.43
45:FE:256:GLN:OE1	46:FH:397:TRP:NE1	2.48	0.43
45:FE:288:VAL:HA	45:FE:291:ILE:HG12	2.00	0.43
46:FF:394:PHE:HA	46:FF:397:TRP:CZ3	2.53	0.43
46:FH:396:HIS:HA	46:FH:399:THR:OG1	2.19	0.43
46:FJ:32:PRO:HA	46:FJ:84:LEU:HD11	2.00	0.43
46:FJ:68:LEU:HD23	46:FJ:143:THR:OG1	2.19	0.43
45:FK:181:VAL:CG1	46:FL:348:ASN:HA	2.49	0.43
45:FK:332:ILE:HG22	45:FK:336:LYS:NZ	2.33	0.43
46:FL:86:ARG:HH11	46:GL:281:TYR:HB3	1.83	0.43
46:GB:391:ARG:HD2	46:GB:391:ARG:HA	1.77	0.43
45:GC:316:SER:HA	45:GC:352:LYS:O	2.19	0.43
46:GD:19:LYS:HG3	46:GD:226:ASN:HB2	1.99	0.43
45:GE:224:TYR:CD2	47:GE:501:GTP:C6	3.07	0.43
46:GH:208:TYR:CE2	46:GH:225:LEU:HD11	2.54	0.43
46:GH:345:ILE:HG23	46:GH:345:ILE:O	2.19	0.43
45:GI:219:ILE:HG22	45:GI:221:ARG:H	1.83	0.43
45:GM:88:HIS:HB3	45:GM:91:GLN:HG2	2.00	0.43
46:HB:100:ASN:HD21	46:HB:102:ALA:HB3	1.84	0.43
46:HD:70:PRO:HG3	46:HD:92:PHE:CD1	2.54	0.43
46:HD:86:ARG:HG2	46:HD:88:ASP:H	1.83	0.43
46:HF:69:GLU:CD	46:HF:71:GLY:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HG:71:GLU:OE1	46:HH:247:ASN:ND2	2.52	0.43
45:HG:407:TRP:HH2	46:HH:254:ALA:HB1	1.84	0.43
46:HJ:336:LYS:HA	46:HJ:336:LYS:HD3	1.75	0.43
45:HK:241:SER:OG	45:HK:250:VAL:O	2.23	0.43
46:HN:377:MET:O	46:HN:380:ARG:HG2	2.19	0.43
46:ID:135:ILE:HD12	46:ID:152:ILE:HD11	2.01	0.43
46:IF:268:ILE:HG22	46:IF:368:VAL:HG13	2.00	0.43
45:IG:345:ASP:OD2	45:IG:346:TRP:N	2.51	0.43
45:IG:401:LYS:HB2	45:IG:401:LYS:HE3	1.80	0.43
45:II:141:VAL:HG12	45:II:171:ILE:O	2.18	0.43
45:II:153:LEU:O	45:II:157:LEU:HD23	2.19	0.43
45:IM:118:CYS:O	45:IM:122:ILE:HG12	2.18	0.43
46:IN:117:LEU:HD13	46:IN:121:ARG:HH22	1.84	0.43
45:JA:205:ASP:OD2	45:JA:304:LYS:N	2.34	0.43
45:JA:306:ASP:OD1	45:JA:308:ARG:NE	2.31	0.43
45:JA:338:LYS:HG3	45:JA:340:THR:HG22	2.00	0.43
45:JA:434:GLU:O	45:JA:437:ILE:HG12	2.19	0.43
46:JD:113:ILE:HA	46:JD:116:VAL:HG12	2.00	0.43
46:JD:161:ASP:OD1	46:JD:161:ASP:N	2.46	0.43
45:JE:258:ASN:ND2	45:JE:352:LYS:HE3	2.34	0.43
46:JF:187:LEU:HD21	46:JF:408:PHE:CE2	2.50	0.43
46:JF:324:LYS:HE2	46:JF:324:LYS:HB2	1.72	0.43
45:JG:356:ASN:OD1	45:JG:357:TYR:N	2.52	0.43
45:JI:36:MET:O	45:JI:38:SER:N	2.46	0.43
45:JI:68:LEU:HD21	45:JI:118:CYS:SG	2.59	0.43
46:JL:198:GLU:OE2	46:JL:254:ALA:HB2	2.19	0.43
45:KA:251:ASP:HB3	45:KA:253:THR:HG22	2.01	0.43
45:KE:406:HIS:CD2	45:KE:407:TRP:CD1	3.06	0.43
45:KG:51:THR:HG21	45:KG:243:ARG:HD3	2.01	0.43
45:LA:320:ARG:HA	45:LA:356:ASN:O	2.18	0.43
46:LD:380:ARG:HB3	46:LD:380:ARG:CZ	2.49	0.43
46:LH:401:GLU:OE2	46:LH:401:GLU:N	2.51	0.43
45:LI:175:PRO:HD2	45:LI:207:GLU:OE2	2.19	0.43
45:LI:222:PRO:HD2	46:LJ:324:LYS:HE3	2.01	0.43
45:LI:301:MET:HE3	45:LI:302:MET:H	1.84	0.43
45:LI:387:VAL:HG12	45:LI:390:ARG:NH2	2.33	0.43
46:LJ:36:TYR:C	46:LJ:37:HIS:HD1	2.22	0.43
45:LK:88:HIS:HB3	45:LK:91:GLN:HG2	2.01	0.43
45:LK:274:PRO:HG3	45:LK:286:LEU:HD12	2.00	0.43
46:LL:192:LEU:HD21	46:LL:199:CYS:SG	2.58	0.43
46:LL:404:ASP:N	46:LL:407:GLU:OE1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ME:194:LEU:O	45:ME:198:THR:HG22	2.19	0.43
46:MH:200:MET:CE	46:MH:268:ILE:HG21	2.49	0.43
46:ML:101:TRP:HB2	46:ML:184:ASN:OD1	2.19	0.43
46:MN:318:ARG:HE	46:MN:358:PRO:HG3	1.83	0.43
45:NA:90:GLU:OE1	45:OA:280:LYS:HE2	2.18	0.43
45:NC:2:ARG:O	45:NC:51:THR:HA	2.19	0.43
46:ND:375:GLN:NE2	46:ND:426:GLN:HE22	2.15	0.43
46:NJ:294:PHE:CE2	46:NJ:333:VAL:HG11	2.54	0.43
45:NM:175:PRO:HD2	45:NM:207:GLU:OE2	2.19	0.43
45:NM:406:HIS:CD2	45:NM:407:TRP:CD1	3.06	0.43
46:NN:405:GLU:CD	46:NN:405:GLU:H	2.22	0.43
46:OB:210:ILE:HD13	46:OB:297:LYS:O	2.19	0.43
46:OD:9:GLY:HA2	46:OD:66:MET:O	2.19	0.43
45:OE:2:ARG:O	45:OE:51:THR:HA	2.19	0.43
45:OE:301:MET:N	45:OE:301:MET:SD	2.92	0.43
46:OF:186:THR:HA	46:OF:189:VAL:HG12	2.01	0.43
46:OF:201:VAL:HG23	46:OF:301:CYS:SG	2.59	0.43
45:OI:137:VAL:HG23	45:OI:168:GLY:HA2	2.01	0.43
45:OI:224:TYR:CD2	47:OI:501:GTP:C6	3.06	0.43
45:OI:390:ARG:HG3	45:OI:391:LEU:N	2.34	0.43
46:OL:3:GLU:N	46:OL:3:GLU:OE1	2.51	0.43
45:OM:394:LYS:HG2	46:ON:346:PRO:HG3	2.00	0.43
45:PA:203:MET:HG3	45:PA:384:ILE:HD11	2.01	0.43
45:PC:60:LYS:HZ1	45:PC:86:LEU:HD12	1.83	0.43
45:PG:88:HIS:ND1	45:PG:90:GLU:HG3	2.33	0.43
46:PH:153:SER:HA	46:PH:195:ASN:ND2	2.34	0.43
46:PL:341:PHE:HD2	46:PL:348:ASN:HD21	1.67	0.43
45:QA:387:VAL:HA	45:QA:390:ARG:HG2	2.00	0.43
46:QD:63:ALA:O	46:QD:89:ASN:ND2	2.47	0.43
46:QF:239:CYS:SG	46:QF:247:ASN:HA	2.58	0.43
45:QG:47:ASP:HB3	45:QG:48:ALA:H	1.71	0.43
45:QG:56:THR:HG23	45:QG:58:ALA:H	1.84	0.43
45:QG:326:LYS:HZ2	46:QH:220:PRO:HD2	1.84	0.43
46:QL:49:VAL:HG23	46:QL:50:TYR:CD2	2.54	0.43
46:QL:156:ARG:NH2	46:QL:160:PRO:O	2.52	0.43
45:QM:288:VAL:HA	45:QM:291:ILE:HG12	2.00	0.43
46:QN:201:VAL:HG23	46:QN:301:CYS:SG	2.58	0.43
45:RA:312:TYR:HE1	45:RA:341:ILE:HG23	1.84	0.43
46:RB:202:ILE:HG13	46:RB:300:MET:CE	2.49	0.43
46:RF:350:LYS:HA	45:RG:179:THR:O	2.19	0.43
46:RH:8:GLN:HE22	46:RH:17:GLY:HA3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RH:222:TYR:CD2	46:RH:225:LEU:HD21	2.54	0.43
46:RJ:8:GLN:HE21	46:RJ:14:ASN:HA	1.84	0.43
45:RK:63:PRO:HG2	45:RK:87:PHE:HD1	1.84	0.43
46:RL:182:PRO:O	46:RL:186:THR:HG23	2.18	0.43
46:RL:258:ILE:HB	45:RM:407:TRP:CH2	2.53	0.43
46:RL:268:ILE:H	46:RL:299:MET:HE3	1.84	0.43
45:SA:66:VAL:HG11	45:SA:122:ILE:HD11	2.00	0.43
45:SA:292:THR:HB	45:SA:319:TYR:OH	2.19	0.43
46:SD:375:GLN:HA	46:SD:378:PHE:HD1	1.84	0.43
45:SE:275:ILE:HA	45:SE:368:LEU:HD11	2.00	0.43
46:SF:252:LYS:HA	46:SF:255:VAL:HG22	2.01	0.43
46:SF:293:MET:HE1	46:SF:367:PHE:HB3	2.00	0.43
46:SF:372:THR:HA	46:SF:422:TYR:CE2	2.54	0.43
46:SH:122:LYS:HD3	46:SH:122:LYS:HA	1.71	0.43
46:SH:214:THR:OG1	46:SH:215:LEU:N	2.52	0.43
46:SH:215:LEU:HD22	46:SH:217:LEU:HB2	2.01	0.43
46:SH:255:VAL:HG11	45:SI:100:ALA:O	2.19	0.43
45:SI:107:HIS:ND1	45:SI:107:HIS:O	2.52	0.43
45:SI:150:GLY:O	45:SI:154:LEU:HD23	2.18	0.43
46:SJ:325:GLU:O	46:SJ:328:GLU:HG3	2.18	0.43
45:SK:371:VAL:HG12	45:SK:373:ARG:H	1.84	0.43
45:SK:429:GLU:O	45:SK:433:GLU:OE1	2.36	0.43
46:SL:99:ASN:HA	46:SL:142:GLY:H	1.83	0.43
46:SN:9:GLY:HA2	46:SN:66:MET:O	2.19	0.43
46:TB:31:ASP:OD2	46:TB:37:HIS:ND1	2.52	0.43
46:TB:101:TRP:CE3	46:TB:187:LEU:HD13	2.54	0.43
45:TC:51:THR:HG22	45:TC:52:PHE:HD2	1.82	0.43
45:TC:371:VAL:HG12	45:TC:373:ARG:H	1.84	0.43
46:TF:8:GLN:HE21	46:TF:14:ASN:HA	1.83	0.43
46:TF:150:LEU:HD23	46:TF:154:LYS:NZ	2.33	0.43
46:TH:21:TRP:CZ3	46:TH:61:PRO:HB3	2.53	0.43
45:TI:71:GLU:HA	45:TI:72:PRO:HD3	1.90	0.43
46:TL:110:ALA:O	46:TL:113:ILE:HG22	2.19	0.43
45:UA:284:GLU:HG3	45:UA:286:LEU:HD22	2.00	0.43
46:UB:207:LEU:HD13	46:UB:225:LEU:HB3	2.00	0.43
46:UD:255:VAL:HG21	45:UE:100:ALA:O	2.19	0.43
45:UE:192:HIS:CD2	45:UE:421:ALA:HA	2.53	0.43
46:UF:45:GLU:OE1	46:UF:45:GLU:N	2.49	0.43
46:UF:274:THR:HG23	46:UF:279:GLN:HE22	1.83	0.43
46:UJ:287:PRO:HA	46:UJ:290:THR:HG22	2.00	0.43
46:UJ:380:ARG:HA	46:UJ:383:GLU:CD	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UJ:420:SER:O	46:UJ:423:GLN:HG3	2.18	0.43
46:UL:1:MET:O	46:UL:2:ARG:HG2	2.18	0.43
45:UM:171:ILE:O	45:UM:171:ILE:HG13	2.18	0.43
45:VC:384:ILE:O	45:VC:387:VAL:HG22	2.19	0.43
45:VE:98:ASP:OD2	46:VF:252:LYS:NZ	2.51	0.43
46:VH:303:ALA:HB2	46:VH:377:MET:HE3	2.01	0.43
46:VJ:217:LEU:O	46:VJ:220:PRO:HD3	2.18	0.43
45:VK:22:GLU:O	45:VK:26:LEU:HD23	2.19	0.43
45:VK:319:TYR:HB3	45:VK:323:VAL:HG11	2.00	0.43
46:VN:156:ARG:NH1	46:VN:162:ARG:O	2.52	0.43
45:WA:324:VAL:HB	45:WA:327:ASP:OD1	2.19	0.43
45:WC:41:THR:CG2	45:WC:42:ILE:H	2.26	0.43
46:WD:42:LEU:O	46:WD:45:GLU:HG2	2.19	0.43
46:WD:293:MET:HG3	46:WD:367:PHE:HB2	2.01	0.43
45:WG:10:GLY:O	45:WG:14:ILE:HG12	2.17	0.43
45:WG:99:ALA:HB3	45:WG:145:THR:HG22	2.01	0.43
45:WG:100:ALA:HB1	46:WH:252:LYS:HA	2.01	0.43
45:WG:156:ARG:HG3	45:WG:156:ARG:HH11	1.84	0.43
46:WN:22:GLU:HG2	46:WN:81:PHE:HB2	2.00	0.43
46:WN:183:TYR:HE2	46:WN:394:PHE:HB2	1.84	0.43
46:WN:194:GLU:HA	46:WN:262:ARG:HH22	1.84	0.43
45:CE:66:VAL:HG11	45:CE:122:ILE:HD11	1.99	0.43
45:CE:187:SER:O	45:CE:191:THR:HG23	2.18	0.43
4:0D:166:ARG:NH1	45:EC:80:THR:O	2.52	0.43
4:0D:174:TYR:HD1	45:EC:79:ARG:HD3	1.83	0.43
9:0N:247:GLN:HA	46:KN:74:ASP:OD1	2.19	0.43
4:1D:174:TYR:HA	45:EG:79:ARG:NH2	2.33	0.43
23:1O:239:ILE:HG23	46:UB:280:GLN:HG2	2.00	0.43
14:1V:221:LYS:HZ2	46:VL:83:GLN:HG3	1.84	0.43
4:2D:223:ILE:O	34:5R:506:LEU:HG	2.19	0.43
29:2G:14:TYR:CD1	45:KG:339:ARG:HG3	2.54	0.43
20:2K:375:VAL:HG22	45:GG:370:LYS:HZ3	1.83	0.43
23:2O:288:LYS:NZ	46:VH:359:LYS:HE2	2.34	0.43
14:2V:122:LYS:HE2	46:LH:390:ARG:HH22	1.84	0.43
12:3T:74:ILE:HD12	45:MK:159:VAL:HG23	2.00	0.43
15:4X:88:PHE:O	15:4X:92:LYS:HG2	2.19	0.43
36:5B:102:TYR:CE1	45:KE:394:LYS:HE3	2.54	0.43
36:5B:138:ARG:HH22	46:NH:359:LYS:HZ3	1.67	0.43
36:5C:139:PHE:HB3	46:NL:42:LEU:HD12	2.00	0.43
37:5E:81:MET:HG3	37:5E:96:TYR:CE2	2.54	0.43
37:5E:154:TYR:HE2	37:5F:11:TRP:NE1	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5F:157:ARG:NH1	46:NH:36:TYR:O	2.50	0.43
37:5G:69:LYS:HA	37:5G:69:LYS:HD3	1.80	0.43
37:5G:146:PHE:HD2	37:5G:149:ARG:HH11	1.65	0.43
10:5Q:38:THR:HA	10:5Q:45:SER:HA	1.99	0.43
40:6G:144:LYS:HD3	45:VG:214:ARG:NH2	2.30	0.43
34:6R:79:PRO:O	34:6R:82:GLN:NE2	2.51	0.43
45:AA:179:THR:OG1	46:AB:350:LYS:NZ	2.52	0.43
46:AB:21:TRP:HA	46:AB:24:ILE:HG22	2.01	0.43
46:AB:52:ASN:OD1	46:AB:62:ARG:NH2	2.51	0.43
45:AC:181:VAL:HG22	46:AD:256:ASN:OD1	2.19	0.43
45:AE:251:ASP:HB3	45:AE:254:GLU:HG2	2.01	0.43
46:AF:4:ILE:HG13	46:AF:132:GLY:C	2.39	0.43
46:AJ:5:VAL:HG12	46:AJ:62:ARG:HD3	2.01	0.43
45:AK:220:GLU:HG2	45:AK:221:ARG:HG3	2.01	0.43
45:BA:109:THR:HG22	45:BA:110:ILE:HG23	2.00	0.43
45:BA:245:ASP:OD2	45:BA:245:ASP:N	2.51	0.43
45:BC:425:LEU:HD23	45:BC:425:LEU:HA	1.79	0.43
45:BE:171:ILE:HG23	45:BE:204:LEU:O	2.18	0.43
45:BG:221:ARG:NH1	46:BH:322:SER:HB3	2.34	0.43
45:BM:33:ASP:HA	45:BM:85:GLN:HE21	1.83	0.43
45:CA:88:HIS:ND1	45:CA:89:PRO:HD2	2.34	0.43
45:CA:89:PRO:HD3	45:DA:280:LYS:HE3	2.00	0.43
45:CA:231:ILE:O	45:CA:235:ILE:HG12	2.19	0.43
45:CA:261:PRO:HG2	45:CA:313:MET:CE	2.49	0.43
45:CC:74:VAL:HA	45:CC:77:GLU:HG2	2.00	0.43
45:CG:141:VAL:HG12	45:CG:171:ILE:O	2.18	0.43
45:CI:334:THR:O	45:CI:338:LYS:HG3	2.19	0.43
46:CJ:165:GLU:OE1	46:CJ:198:GLU:HB2	2.19	0.43
46:CJ:324:LYS:O	46:CJ:328:GLU:HG3	2.19	0.43
46:CL:47:ILE:HD12	46:CL:59:TYR:CE2	2.47	0.43
46:CL:252:LYS:HA	46:CL:255:VAL:HG12	2.00	0.43
46:CN:65:LEU:HD23	46:CN:73:MET:HG2	2.01	0.43
45:DA:372:MET:SD	45:DA:373:ARG:HG3	2.59	0.43
46:DB:1:MET:CE	46:DB:2:ARG:H	2.32	0.43
46:DD:334:GLN:HA	46:DD:341:PHE:CE2	2.53	0.43
45:DE:71:GLU:HG2	45:DE:71:GLU:O	2.18	0.43
45:DG:11:GLN:HE21	47:DG:501:GTP:PA	2.42	0.43
46:DH:323:THR:HG21	45:DI:224:TYR:HD2	1.84	0.43
46:DH:390:ARG:HA	46:DH:390:ARG:NH1	2.33	0.43
46:DL:375:GLN:HG2	46:DL:379:LYS:HZ3	1.83	0.43
46:EB:287:PRO:HG3	46:EB:329:GLN:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EC:265:ILE:HD11	45:EC:435:VAL:HG21	2.01	0.43
46:ED:2:ARG:NH1	46:ED:240:LEU:HG	2.34	0.43
45:EE:387:VAL:HA	45:EE:390:ARG:HG2	2.01	0.43
46:EF:139:LEU:HD13	46:EF:168:SER:HB3	2.00	0.43
45:EI:260:VAL:HG23	46:EJ:397:TRP:HZ2	1.83	0.43
45:EI:338:LYS:NZ	45:EI:340:THR:H	2.16	0.43
45:EK:175:PRO:HG2	45:EK:304:LYS:HG2	2.00	0.43
45:EM:401:LYS:HB2	45:EM:401:LYS:HE3	1.82	0.43
46:FF:86:ARG:HH22	46:GF:281:TYR:HD2	1.67	0.43
45:FG:171:ILE:HG23	45:FG:204:LEU:O	2.19	0.43
45:FI:174:SER:HB2	45:FI:177:VAL:O	2.18	0.43
45:FM:167:LEU:HG	45:FM:200:VAL:HB	2.01	0.43
46:FN:15:GLN:NE2	49:FN:501:GDP:C5	2.87	0.43
46:GD:289:LEU:HD11	46:GD:363:MET:HB3	2.01	0.43
45:GE:222:PRO:HD2	46:GF:324:LYS:NZ	2.34	0.43
46:GF:55:THR:HG23	46:HF:283:ALA:HA	2.00	0.43
46:GF:324:LYS:HG3	46:GF:325:GLU:N	2.33	0.43
46:GH:289:LEU:HD23	46:GH:289:LEU:HA	1.88	0.43
46:GN:114:ASP:OD1	46:GN:114:ASP:N	2.52	0.43
46:GN:287:PRO:HA	46:GN:290:THR:HG22	2.01	0.43
46:HB:73:MET:CE	46:HB:92:PHE:HB3	2.49	0.43
45:HC:174:SER:HB2	45:HC:177:VAL:O	2.19	0.43
45:HC:312:TYR:HE2	45:HC:379:SER:HG	1.67	0.43
45:HE:345:ASP:OD1	45:HE:346:TRP:N	2.52	0.43
45:HG:105:ARG:HG2	45:HG:411:GLU:CD	2.39	0.43
45:HG:181:VAL:H	46:HH:256:ASN:HD21	1.67	0.43
45:HG:224:TYR:HE2	46:HH:246:LEU:HD11	1.84	0.43
46:HH:342:VAL:HG13	46:HH:345:ILE:HG22	2.01	0.43
45:HM:107:HIS:ND1	45:HM:107:HIS:O	2.52	0.43
45:HM:115:VAL:HG22	45:HM:119:LEU:HD23	2.01	0.43
45:HM:288:VAL:HA	45:HM:291:ILE:HG12	2.01	0.43
45:HM:395:PHE:HZ	45:HM:418:PHE:HB3	1.83	0.43
45:IA:308:ARG:HA	45:IA:308:ARG:NH1	2.33	0.43
46:IF:204:ASN:OD1	49:IF:501:GDP:O2'	2.35	0.43
45:IG:259:LEU:HD11	45:IG:316:SER:HB3	2.01	0.43
46:IJ:379:LYS:O	46:IJ:383:GLU:HG2	2.19	0.43
45:IK:188:ILE:O	45:IK:191:THR:OG1	2.27	0.43
45:IK:320:ARG:HA	45:IK:356:ASN:O	2.19	0.43
45:IM:71:GLU:OE2	45:IM:73:THR:OG1	2.34	0.43
45:IM:390:ARG:HG3	45:IM:391:LEU:N	2.34	0.43
45:JA:63:PRO:HG2	45:JA:87:PHE:HE1	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JE:330:ALA:O	45:JE:334:THR:HG23	2.19	0.43
46:JF:203:ASP:OD2	46:JF:302:ALA:N	2.33	0.43
45:JG:426:ALA:O	45:JG:429:GLU:HG2	2.19	0.43
46:JH:267:MET:HE2	46:JH:299:MET:HG3	2.01	0.43
45:JI:38:SER:O	45:JI:40:LYS:HG2	2.18	0.43
45:JI:96:LYS:HD3	45:JI:96:LYS:O	2.19	0.43
46:JL:398:TYR:O	46:JL:403:MET:HB3	2.19	0.43
45:JM:420:GLU:HA	45:JM:423:GLU:OE2	2.19	0.43
45:KC:205:ASP:OD2	45:KC:303:ALA:HA	2.19	0.43
46:KD:9:GLY:HA2	46:KD:66:MET:O	2.19	0.43
46:KD:362:LYS:HB2	46:KD:362:LYS:HE3	1.64	0.43
45:KE:176:GLN:O	46:KF:331:LEU:HD11	2.19	0.43
45:KK:264:ARG:NH2	45:KK:428:LEU:HD13	2.34	0.43
46:KL:418:LEU:HA	46:KL:421:GLU:HG2	2.01	0.43
46:LB:200:MET:HE2	46:LB:266:PHE:HB2	2.00	0.43
45:LC:124:LYS:HE2	45:LC:124:LYS:HB2	1.88	0.43
46:LD:116:VAL:HA	46:LD:119:VAL:HG22	2.01	0.43
45:LE:108:TYR:CE2	45:LE:413:MET:HG3	2.54	0.43
46:LF:16:ILE:HD12	46:LF:229:VAL:HG21	2.00	0.43
46:LH:159:TYR:HB3	46:LH:162:ARG:HG3	2.01	0.43
45:LI:279:GLU:H	45:LI:279:GLU:CD	2.22	0.43
46:LJ:97:ALA:HB2	46:LJ:143:THR:HB	2.00	0.43
45:LK:140:SER:OG	47:LK:501:GTP:O2B	2.36	0.43
46:LL:170:VAL:HG11	46:LL:377:MET:CE	2.49	0.43
46:LL:407:GLU:OE2	46:LL:407:GLU:N	2.45	0.43
45:LM:330:ALA:O	45:LM:334:THR:HG23	2.18	0.43
46:MD:310:TYR:CD2	46:MD:371:SER:HB2	2.54	0.43
45:ME:414:GLU:OE2	45:ME:415:GLU:HG3	2.19	0.43
45:MM:356:ASN:OD1	45:MM:357:TYR:N	2.52	0.43
45:NA:242:LEU:HD21	45:NA:252:ILE:HG12	2.01	0.43
45:NC:21:TRP:CZ2	45:NC:65:ALA:HB2	2.53	0.43
46:ND:380:ARG:HA	46:ND:383:GLU:OE1	2.19	0.43
46:NF:345:ILE:O	46:NF:345:ILE:HG23	2.18	0.43
45:NG:205:ASP:OD1	45:NG:303:ALA:HA	2.19	0.43
45:NI:167:LEU:HD11	45:NI:252:ILE:HG23	1.99	0.43
46:NJ:164:MET:HB2	46:NJ:197:ASP:CG	2.39	0.43
45:NK:339:ARG:NH2	45:NK:340:THR:HA	2.34	0.43
46:NL:309:ARG:N	46:NL:372:THR:HG1	2.16	0.43
46:NN:65:LEU:HB3	46:NN:73:MET:HE3	1.99	0.43
46:NN:309:ARG:NH2	46:NN:342:VAL:HA	2.33	0.43
46:OB:173:PRO:HG3	46:OB:384:GLN:NE2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OB:205:GLU:HG2	46:OB:206:ALA:N	2.34	0.43
46:OD:165:GLU:OE2	46:OD:200:MET:HG2	2.18	0.43
46:OD:201:VAL:HG22	46:OD:266:PHE:O	2.19	0.43
46:OD:201:VAL:HG23	46:OD:301:CYS:SG	2.59	0.43
45:OE:217:LEU:HB3	45:OE:219:ILE:HG12	2.00	0.43
45:OE:370:LYS:O	45:OE:370:LYS:HG3	2.19	0.43
46:OH:23:VAL:HA	46:OH:26:ASP:OD2	2.19	0.43
45:OK:36:MET:SD	45:OK:37:PRO:HD2	2.58	0.43
45:OK:136:LEU:HB3	45:OK:138:PHE:CE2	2.54	0.43
45:PA:269:LEU:CD1	45:PA:303:ALA:HB3	2.49	0.43
46:PB:282:ARG:HH21	46:PB:288:GLU:HG2	1.84	0.43
45:PG:51:THR:HG21	45:PG:243:ARG:HD3	2.00	0.43
45:PG:265:ILE:HG22	45:PG:380:ASN:HD21	1.84	0.43
46:PH:19:LYS:HE3	46:PH:227:HIS:HB2	2.00	0.43
45:PI:105:ARG:NH1	46:PJ:251:ARG:HD3	2.34	0.43
45:PI:231:ILE:O	45:PI:235:ILE:HG12	2.19	0.43
46:PN:139:LEU:HD23	46:PN:185:ALA:HA	2.01	0.43
46:PN:375:GLN:HA	46:PN:378:PHE:HD1	1.83	0.43
45:QA:370:LYS:HD3	45:QA:370:LYS:C	2.39	0.43
46:QB:68:LEU:HB3	46:QB:96:GLY:HA2	2.00	0.43
46:QB:212:PHE:HB3	46:QB:213:ARG:CZ	2.49	0.43
45:QC:226:ASN:ND2	45:QC:367:ASP:OD2	2.52	0.43
46:QD:398:TYR:O	46:QD:403:MET:HB2	2.19	0.43
46:QF:258:ILE:HD11	45:QG:407:TRP:CZ2	2.54	0.43
46:QH:54:ALA:HB3	46:QH:58:ARG:HG2	2.00	0.43
46:QH:151:LEU:O	46:QH:155:VAL:HG22	2.19	0.43
45:QI:88:HIS:HB3	45:QI:91:GLN:HG2	1.99	0.43
45:QI:141:VAL:HG12	45:QI:171:ILE:O	2.19	0.43
45:QI:145:THR:HG22	47:QI:501:GTP:PG	2.59	0.43
46:QJ:16:ILE:HD13	46:QJ:226:ASN:OD1	2.18	0.43
45:QK:11:GLN:OE1	45:QK:11:GLN:N	2.43	0.43
46:QL:299:MET:SD	46:QL:299:MET:N	2.91	0.43
45:QM:8:HIS:CE1	45:QM:21:TRP:CH2	3.06	0.43
46:QN:175:VAL:HG22	46:QN:205:GLU:HB2	2.01	0.43
45:RA:88:HIS:HB3	45:RA:91:GLN:HG2	2.01	0.43
46:RB:148:GLY:O	46:RB:152:ILE:HG13	2.18	0.43
46:RB:318:ARG:HB2	46:RB:364:ALA:HB3	2.01	0.43
46:RB:327:ASP:O	46:RB:331:LEU:HD23	2.19	0.43
45:RI:194:LEU:O	45:RI:198:THR:HG22	2.18	0.43
46:RJ:252:LYS:HD2	45:RK:101:ASN:OD1	2.19	0.43
46:SB:113:ILE:HD13	46:SB:154:LYS:HZ2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SE:328:VAL:HG11	45:SE:353:VAL:HG21	2.00	0.43
46:SF:97:ALA:HA	46:SF:103:LYS:NZ	2.34	0.43
45:SG:23:LEU:O	45:SG:27:GLU:OE1	2.36	0.43
45:SG:55:GLU:HG3	45:SG:57:GLY:H	1.84	0.43
45:SG:56:THR:HA	45:TG:285:GLN:OE1	2.19	0.43
45:SK:262:TYR:OH	46:SL:391:ARG:O	2.36	0.43
46:SL:102:ALA:HB2	46:SL:403:MET:HE2	2.00	0.43
46:SL:193:VAL:HG12	46:SL:265:PHE:CZ	2.54	0.43
45:SM:393:HIS:HA	45:SM:396:ASP:OD2	2.18	0.43
46:TB:321:MET:HB3	45:TC:221:ARG:NH2	2.34	0.43
45:TC:175:PRO:HA	45:TC:390:ARG:NH1	2.34	0.43
46:TF:210:ILE:O	46:TF:214:THR:OG1	2.28	0.43
46:TJ:345:ILE:HG22	46:TJ:348:ASN:HB3	2.01	0.43
46:UB:262:ARG:HA	46:UB:262:ARG:CZ	2.48	0.43
45:UC:34:GLY:O	45:UC:60:LYS:HA	2.19	0.43
46:UD:383:GLU:HA	46:UD:386:THR:HG22	2.01	0.43
45:UE:420:GLU:HA	45:UE:423:GLU:CD	2.39	0.43
45:UI:74:VAL:O	45:UI:78:VAL:HG23	2.18	0.43
45:UK:123:ARG:NH1	45:UK:127:ASP:HB3	2.30	0.43
45:UK:328:VAL:HG11	45:UK:353:VAL:HG21	2.00	0.43
46:UL:175:VAL:HG22	46:UL:205:GLU:HG2	2.01	0.43
45:UM:21:TRP:CZ2	45:UM:65:ALA:HB2	2.54	0.43
45:UM:22:GLU:HG3	45:UM:83:TYR:CE2	2.53	0.43
45:UM:182:VAL:HG22	45:UM:185:TYR:HB2	2.01	0.43
45:UM:240:ALA:HB3	45:UM:320:ARG:HH22	1.83	0.43
45:UM:331:SER:O	45:UM:335:ILE:HG12	2.19	0.43
46:UN:119:VAL:HA	46:UN:122:LYS:HG2	2.00	0.43
46:VB:119:VAL:O	46:VB:123:GLU:OE1	2.37	0.43
46:VB:229:VAL:O	46:VB:233:MET:HG2	2.19	0.43
45:VC:220:GLU:OE1	45:VC:221:ARG:HG2	2.19	0.43
46:VD:213:ARG:HA	46:VD:216:LYS:NZ	2.34	0.43
46:VF:228:LEU:HD11	46:VF:273:LEU:HD11	2.01	0.43
46:VF:312:THR:HG22	46:VF:370:ASN:HB3	2.00	0.43
45:VG:301:MET:HE1	45:VG:307:PRO:HD3	2.01	0.43
46:VH:332:ASN:O	46:VH:336:LYS:HG2	2.19	0.43
45:VI:22:GLU:O	45:VI:26:LEU:HD23	2.18	0.43
45:VI:174:SER:HB3	45:VI:207:GLU:OE2	2.17	0.43
45:VI:221:ARG:HH21	46:VJ:321:MET:HB2	1.82	0.43
45:VI:288:VAL:HA	45:VI:291:ILE:HG12	2.00	0.43
46:VJ:16:ILE:HD13	46:VJ:226:ASN:OD1	2.18	0.43
45:VK:242:LEU:HD21	45:VK:251:ASP:OD1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VK:280:LYS:O	45:VK:280:LYS:HG2	2.17	0.43
46:WB:3:GLU:O	46:WB:4:ILE:HD13	2.19	0.43
46:WB:12:CYS:O	46:WB:16:ILE:HG12	2.18	0.43
46:WD:207:LEU:HB3	46:WD:225:LEU:HD22	2.01	0.43
45:WE:22:GLU:OE2	45:WE:83:TYR:HE2	2.02	0.43
45:WE:209:ILE:HG21	45:WE:227:LEU:HG	2.01	0.43
45:WE:345:ASP:OD2	45:WE:346:TRP:N	2.52	0.43
46:WF:253:LEU:O	46:WF:257:LEU:HB2	2.19	0.43
45:WG:84:ARG:H	45:WG:84:ARG:HG2	1.66	0.43
45:WG:239:THR:HG23	45:WG:243:ARG:NE	2.32	0.43
45:WG:261:PRO:HA	46:WJ:394:PHE:HD2	1.84	0.43
45:WG:329:ASN:OD1	46:WJ:175:VAL:HG23	2.19	0.43
46:WH:203:ASP:OD2	46:WH:302:ALA:N	2.39	0.43
46:WH:310:TYR:CD1	46:WH:371:SER:HB2	2.54	0.43
46:WH:318:ARG:HH11	46:WH:358:PRO:HG3	1.84	0.43
45:WM:141:VAL:HG11	45:WM:172:TYR:HA	2.01	0.43
46:WN:256:ASN:CB	46:WN:350:LYS:HE3	2.49	0.43
45:DC:24:PHE:HA	45:DC:27:GLU:HG2	2.01	0.43
10:OQ:6:PHE:CZ	45:WA:120:ASP:OD2	2.71	0.42
19:1J:198:ARG:HH21	45:IG:370:LYS:C	2.22	0.42
23:1O:185:ARG:HD2	46:UD:279:GLN:NE2	2.34	0.42
23:1O:249:LYS:HZ1	46:UB:276:ARG:HE	1.67	0.42
25:1R:112:GLU:OE2	46:BF:279:GLN:NE2	2.41	0.42
13:1U:430:ARG:HH22	45:WE:365:GLY:H	1.64	0.42
26:1W:65:GLY:HA3	46:LH:224:ASP:OD2	2.19	0.42
1:2A:104:ARG:HH21	34:5R:60:GLY:N	2.17	0.42
4:2D:77:ASN:HB2	46:EJ:362:LYS:HZ3	1.83	0.42
4:2D:224:ARG:NH1	34:5R:582:TYR:HB3	2.34	0.42
31:2I:118:LYS:HZ3	45:GC:339:ARG:HB3	1.83	0.42
25:2R:193:TYR:CD1	45:AG:40:LYS:HG2	2.53	0.42
26:2W:254:ARG:HH21	34:6R:21:LEU:HB2	1.84	0.42
10:3Q:6:PHE:CB	45:WG:121:ARG:HH12	2.32	0.42
25:3R:455:ASN:OD1	46:FL:219:THR:HB	2.17	0.42
33:4F:119:VAL:HG22	46:IL:359:LYS:HZ1	1.78	0.42
36:5A:127:GLU:HB3	46:ND:276:ARG:NH1	2.34	0.42
36:5D:82:ASP:O	36:5D:85:ARG:NH1	2.52	0.42
10:5Q:103:PHE:CD1	10:5Q:119:CYS:HB3	2.53	0.42
35:5S:93:PRO:HA	35:5S:96:LEU:HD12	2.01	0.42
41:6H:183:TYR:HB3	45:FA:364:PRO:HG2	2.01	0.42
46:AB:19:LYS:HG3	46:AB:226:ASN:HB3	2.01	0.42
45:AC:259:LEU:HD21	45:AC:316:SER:OG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AD:91:VAL:HG21	46:AD:116:VAL:HB	2.00	0.42
46:AD:208:TYR:CE1	46:AD:225:LEU:HD11	2.51	0.42
46:AF:73:MET:HE2	46:AF:73:MET:HB3	1.89	0.42
46:AJ:6:HIS:O	46:AJ:63:ALA:HA	2.18	0.42
45:AK:326:LYS:HG3	46:AN:220:PRO:HD2	2.01	0.42
45:AM:254:GLU:O	45:AM:255:PHE:HD1	2.02	0.42
45:BA:19:ALA:HA	45:BA:22:GLU:OE1	2.19	0.42
45:BA:384:ILE:O	45:BA:387:VAL:HG22	2.19	0.42
45:BG:252:ILE:HD12	45:BG:252:ILE:H	1.84	0.42
46:BL:73:MET:HE1	46:BL:92:PHE:HB3	2.01	0.42
46:BL:121:ARG:O	46:BL:125:GLU:HG3	2.19	0.42
46:BN:22:GLU:HA	46:BN:81:PHE:HD2	1.84	0.42
46:CB:55:THR:HG23	46:DB:283:ALA:HA	2.00	0.42
46:CB:119:VAL:O	46:CB:123:GLU:OE1	2.37	0.42
45:CC:124:LYS:HE2	45:CC:124:LYS:HB2	1.82	0.42
45:CC:141:VAL:HG21	45:CC:172:TYR:CE1	2.54	0.42
45:CG:79:ARG:O	45:CG:84:ARG:HG2	2.19	0.42
45:CI:2:ARG:NH1	46:CJ:94:GLN:O	2.51	0.42
46:CJ:66:MET:HA	46:CJ:91:VAL:HG23	2.00	0.42
45:CK:253:THR:HA	45:CK:256:GLN:HE22	1.83	0.42
46:DD:8:GLN:HE21	46:DD:65:LEU:CD2	2.31	0.42
45:DE:117:LEU:O	45:DE:121:ARG:HG2	2.19	0.42
45:DE:429:GLU:HG3	45:DE:433:GLU:OE2	2.19	0.42
46:DF:102:ALA:O	46:DF:106:TYR:HB2	2.19	0.42
45:DG:120:ASP:O	45:DG:124:LYS:HG2	2.18	0.42
46:DH:256:ASN:OD1	45:DI:181:VAL:HG12	2.19	0.42
45:DI:63:PRO:HG2	45:DI:87:PHE:CD1	2.53	0.42
45:DK:356:ASN:OD1	45:DK:357:TYR:N	2.52	0.42
45:EA:296:PHE:HE2	45:EA:335:ILE:HG13	1.83	0.42
45:EC:14:ILE:HG12	45:EC:67:PHE:HD1	1.83	0.42
45:EC:203:MET:N	45:EC:203:MET:SD	2.92	0.42
46:ED:205:GLU:OE2	46:ED:205:GLU:HA	2.19	0.42
46:EF:175:VAL:O	46:EF:175:VAL:HG23	2.19	0.42
46:EH:44:LEU:O	46:EH:47:ILE:HG12	2.19	0.42
46:EH:306:ARG:HB2	46:EH:340:TYR:CE1	2.54	0.42
46:EH:309:ARG:NH2	46:EH:426:GLN:O	2.35	0.42
46:EJ:116:VAL:HA	46:EJ:119:VAL:HG12	2.01	0.42
46:EL:315:ALA:HB3	46:EL:330:MET:HE1	1.99	0.42
45:EM:141:VAL:HG11	45:EM:172:TYR:CD1	2.53	0.42
45:EM:434:GLU:O	46:EN:391:ARG:NH2	2.52	0.42
46:EN:65:LEU:HD22	46:EN:90:PHE:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EN:222:TYR:HB3	49:EN:501:GDP:O6	2.18	0.42
46:FB:370:ASN:OD1	46:FB:422:TYR:OH	2.37	0.42
46:FD:287:PRO:HA	46:FD:290:THR:HG22	2.01	0.42
45:FE:312:TYR:HB2	45:FE:343:PHE:HD2	1.84	0.42
46:FF:293:MET:SD	46:FF:365:VAL:HG11	2.59	0.42
45:FI:316:SER:HA	45:FI:352:LYS:O	2.19	0.42
45:FK:69:ASP:O	45:FK:94:SER:HA	2.19	0.42
46:FL:200:MET:HE1	46:FL:266:PHE:HB2	2.01	0.42
46:FL:226:ASN:ND2	49:FL:502:GDP:HN1	2.15	0.42
46:FL:248:SER:HA	46:FL:252:LYS:HD2	2.00	0.42
45:FM:102:ASN:HB3	45:FM:105:ARG:HB2	2.01	0.42
45:GA:231:ILE:O	45:GA:235:ILE:HG12	2.18	0.42
45:GE:79:ARG:O	45:GE:84:ARG:HG2	2.19	0.42
45:GE:109:THR:OG1	45:GE:411:GLU:OE2	2.13	0.42
45:GE:222:PRO:HD2	46:GF:324:LYS:HD3	2.00	0.42
46:GF:186:THR:HA	46:GF:189:VAL:HG12	2.01	0.42
45:GI:271:SER:OG	45:GI:301:MET:HA	2.19	0.42
45:GK:332:ILE:HD12	45:GK:351:PHE:CE1	2.54	0.42
46:GL:21:TRP:HA	46:GL:24:ILE:HG22	2.01	0.42
45:HC:98:ASP:OD1	45:HC:99:ALA:N	2.52	0.42
45:HE:156:ARG:HD3	45:HE:156:ARG:HA	1.79	0.42
45:HE:431:ASP:O	45:HE:434:GLU:HG3	2.19	0.42
45:HG:265:ILE:HG12	45:HG:432:TYR:CE1	2.53	0.42
46:HH:248:SER:HA	46:HH:252:LYS:HD2	2.01	0.42
46:HH:316:LEU:HB2	46:HH:366:THR:CG2	2.48	0.42
45:HI:121:ARG:NH1	45:HI:124:LYS:HD2	2.31	0.42
46:HN:137:HIS:NE2	46:HN:166:THR:OG1	2.52	0.42
45:IA:114:ILE:HD13	45:IA:114:ILE:HA	1.87	0.42
46:IB:100:ASN:HD22	46:IB:103:LYS:HB2	1.84	0.42
45:IE:5:ILE:HB	45:IE:135:PHE:CD2	2.53	0.42
45:IE:53:PHE:HD1	45:IE:63:PRO:HA	1.84	0.42
46:IF:237:THR:HG23	46:IF:241:ARG:HH11	1.84	0.42
45:IG:3:GLU:OE1	45:IG:3:GLU:N	2.52	0.42
45:IG:241:SER:HB2	45:IG:249:ASN:OD1	2.19	0.42
45:IG:329:ASN:HA	45:IG:332:ILE:HG22	2.00	0.42
46:IH:6:HIS:HD2	46:IH:134:GLN:NE2	2.08	0.42
45:II:237:SER:HA	45:II:320:ARG:HH11	1.84	0.42
45:IK:285:GLN:H	45:IK:285:GLN:HG2	1.64	0.42
46:IL:377:MET:CE	46:IL:380:ARG:HE	2.31	0.42
45:IM:147:SER:HB2	45:IM:190:SER:HB3	2.00	0.42
45:IM:153:LEU:O	45:IM:157:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JA:206:ASN:OD1	47:JA:501:GTP:N2	2.47	0.42
46:JD:3:GLU:H	46:JD:3:GLU:CD	2.22	0.42
46:JD:310:TYR:CD1	46:JD:371:SER:HB2	2.54	0.42
45:JE:174:SER:HB2	45:JE:177:VAL:O	2.18	0.42
45:JG:318:MET:HB2	45:JG:376:CYS:SG	2.58	0.42
46:JL:73:MET:CB	46:JL:77:ARG:HH21	2.32	0.42
45:JM:434:GLU:O	45:JM:437:ILE:HG12	2.19	0.42
46:JN:276:ARG:HA	46:JN:279:GLN:NE2	2.31	0.42
46:JN:287:PRO:HA	46:JN:329:GLN:NE2	2.33	0.42
45:KA:316:SER:HB3	45:KA:378:ILE:HB	2.01	0.42
46:KB:257:LEU:HD12	46:KB:312:THR:OG1	2.19	0.42
46:KB:416:ASN:HA	46:KB:419:VAL:HG12	2.00	0.42
46:KF:172:SER:OG	46:KF:205:GLU:HG2	2.18	0.42
45:KG:256:GLN:HB3	46:KJ:397:TRP:CZ2	2.54	0.42
45:KI:152:LEU:HD12	45:KI:152:LEU:HA	1.90	0.42
45:KI:268:MET:HB2	45:KI:379:SER:O	2.19	0.42
46:KJ:91:VAL:HG21	46:KJ:116:VAL:HB	2.01	0.42
45:LA:71:GLU:OE2	46:LB:2:ARG:NH2	2.52	0.42
45:LA:75:ILE:HG21	45:LA:94:SER:HB2	2.02	0.42
45:LA:141:VAL:HG12	45:LA:171:ILE:O	2.19	0.42
46:LB:154:LYS:HA	46:LB:157:GLU:OE1	2.18	0.42
45:LC:55:GLU:OE2	45:LC:56:THR:N	2.52	0.42
45:LC:89:PRO:HD3	45:MC:280:LYS:HE2	2.00	0.42
45:LC:107:HIS:ND1	45:LC:107:HIS:O	2.52	0.42
45:LG:296:PHE:CE2	45:LG:335:ILE:HG21	2.54	0.42
46:LJ:35:THR:HB	46:LJ:37:HIS:HE1	1.84	0.42
46:LL:248:SER:HA	46:LL:252:LYS:HD2	2.01	0.42
46:MB:310:TYR:HB2	46:MB:341:PHE:HD1	1.83	0.42
46:MF:103:LYS:HE2	46:MF:103:LYS:HB3	1.93	0.42
45:MG:174:SER:HA	45:MG:205:ASP:OD1	2.18	0.42
45:MI:200:VAL:HG13	45:MI:268:MET:CE	2.49	0.42
45:MI:222:PRO:O	46:MJ:322:SER:HB2	2.19	0.42
45:MK:398:MET:HE2	46:ML:346:PRO:HD2	2.01	0.42
45:MM:107:HIS:O	45:MM:107:HIS:ND1	2.52	0.42
45:NA:54:SER:HB3	45:NA:64:ARG:NH1	2.33	0.42
45:NA:120:ASP:HB3	45:NA:124:LYS:NZ	2.33	0.42
46:NH:31:ASP:OD2	46:NH:35:THR:HB	2.18	0.42
46:NJ:5:VAL:HG12	46:NJ:62:ARG:HD3	2.01	0.42
45:NM:82:THR:HG23	45:NM:83:TYR:CD1	2.54	0.42
46:NN:2:ARG:HG2	46:NN:131:GLN:OE1	2.19	0.42
46:NN:350:LYS:HA	46:NN:350:LYS:HD2	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OA:390:ARG:HG3	45:OA:391:LEU:N	2.33	0.42
45:OA:434:GLU:O	46:OD:391:ARG:NH2	2.46	0.42
46:OD:132:GLY:HA2	46:OD:163:ILE:O	2.18	0.42
46:OH:286:VAL:O	46:OH:290:THR:HG23	2.19	0.42
45:OI:99:ALA:HB3	45:OI:145:THR:HB	1.99	0.42
46:OJ:314:SER:OG	46:OJ:368:VAL:HB	2.19	0.42
46:OL:141:GLY:O	46:OL:145:SER:OG	2.31	0.42
46:OL:372:THR:HA	46:OL:422:TYR:CE2	2.53	0.42
46:OL:404:ASP:N	46:OL:404:ASP:OD1	2.52	0.42
45:OM:152:LEU:O	45:OM:156:ARG:HG2	2.18	0.42
46:ON:398:TYR:O	46:ON:403:MET:HB3	2.19	0.42
45:PA:4:VAL:HG22	45:PA:133:GLN:HB2	1.99	0.42
45:PA:167:LEU:HG	45:PA:200:VAL:HB	2.00	0.42
45:PA:221:ARG:HD2	46:PB:322:SER:OG	2.18	0.42
46:PB:201:VAL:HG23	46:PB:301:CYS:SG	2.58	0.42
46:PB:285:THR:HB	46:PB:287:PRO:HD2	2.00	0.42
45:PC:88:HIS:CE1	45:PC:90:GLU:HG3	2.54	0.42
46:PD:163:ILE:HD11	46:PD:251:ARG:HH11	1.84	0.42
45:PE:3:GLU:N	45:PE:3:GLU:OE2	2.52	0.42
45:PI:224:TYR:CE2	46:PJ:323:THR:HG21	2.53	0.42
45:PM:384:ILE:O	45:PM:387:VAL:HG12	2.19	0.42
45:QA:206:ASN:OD1	47:QA:501:GTP:N2	2.51	0.42
45:QA:324:VAL:HG12	45:QA:326:LYS:HG2	2.00	0.42
45:QA:345:ASP:N	45:QA:345:ASP:OD1	2.53	0.42
46:QB:208:TYR:CE1	46:QB:225:LEU:HD11	2.54	0.42
46:QB:391:ARG:HA	46:QB:391:ARG:HD2	1.81	0.42
45:QC:260:VAL:HG13	45:QC:265:ILE:O	2.19	0.42
45:QE:117:LEU:O	45:QE:121:ARG:HG2	2.18	0.42
45:QE:349:THR:HG23	46:QF:179:VAL:HA	2.01	0.42
46:QJ:97:ALA:HB3	46:QJ:143:THR:HB	2.00	0.42
46:QJ:285:THR:HG23	46:QJ:288:GLU:H	1.84	0.42
45:QK:187:SER:O	45:QK:191:THR:HG23	2.19	0.42
46:QL:182:PRO:O	46:QL:186:THR:HG23	2.19	0.42
45:RC:122:ILE:HA	45:RC:125:LEU:HG	2.01	0.42
46:RD:2:ARG:HH22	46:RD:247:ASN:ND2	2.16	0.42
46:RD:262:ARG:NH2	46:RD:418:LEU:HA	2.34	0.42
46:RF:391:ARG:HA	46:RF:391:ARG:HD2	1.89	0.42
46:RH:320:ARG:HG3	46:RH:355:ASP:HB2	2.00	0.42
46:RL:20:PHE:HB2	46:RL:233:MET:CE	2.49	0.42
46:SB:208:TYR:HB3	46:SB:212:PHE:CE1	2.54	0.42
46:SD:380:ARG:HA	46:SD:383:GLU:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:328:GLU:OE2	46:SF:329:GLN:HG2	2.18	0.42
46:SH:67:ASP:OD2	46:SH:72:THR:OG1	2.17	0.42
46:SH:267:MET:HB2	46:SH:299:MET:HE2	2.00	0.42
46:SL:122:LYS:HE2	46:TL:291:GLN:HB2	2.01	0.42
46:SL:248:SER:HA	46:SL:252:LYS:HE2	2.01	0.42
46:SL:407:GLU:HA	46:SL:410:GLU:OE1	2.19	0.42
45:TA:102:ASN:HB3	45:TA:105:ARG:HB2	2.00	0.42
46:TB:248:SER:HA	46:TB:252:LYS:HG3	2.01	0.42
45:TC:74:VAL:O	45:TC:78:VAL:HG23	2.19	0.42
45:TC:280:LYS:HA	45:TC:283:HIS:ND1	2.34	0.42
46:TF:200:MET:CE	46:TF:268:ILE:HG21	2.49	0.42
46:TF:396:HIS:HA	46:TF:399:THR:OG1	2.19	0.42
45:TI:5:ILE:HB	45:TI:135:PHE:CD1	2.54	0.42
45:TI:200:VAL:HG13	45:TI:268:MET:SD	2.59	0.42
45:TI:280:LYS:HB2	45:TI:280:LYS:HE3	1.90	0.42
45:TK:434:GLU:O	45:TK:437:ILE:HG12	2.19	0.42
46:TN:5:VAL:HA	46:TN:62:ARG:HG3	2.01	0.42
46:UB:299:MET:SD	46:UB:299:MET:N	2.89	0.42
46:UB:313:ALA:HB1	46:UB:367:PHE:CE1	2.54	0.42
46:UD:21:TRP:CZ2	46:UD:63:ALA:HB2	2.53	0.42
46:UD:325:GLU:OE2	45:UE:221:ARG:NH1	2.52	0.42
46:UF:318:ARG:HG2	46:UF:357:PRO:HA	2.01	0.42
45:UG:88:HIS:CE1	45:VE:280:LYS:HE3	2.54	0.42
45:UG:141:VAL:HG12	45:UG:171:ILE:O	2.19	0.42
45:UG:164:LYS:HD2	45:UG:164:LYS:HA	1.89	0.42
45:UG:245:ASP:N	45:UG:245:ASP:OD1	2.52	0.42
45:UG:394:LYS:HB2	45:UG:394:LYS:HE2	1.82	0.42
46:UH:118:ASP:HA	46:UH:121:ARG:HH12	1.83	0.42
45:UI:141:VAL:HG12	45:UI:171:ILE:O	2.19	0.42
46:UJ:3:GLU:H	46:UJ:3:GLU:CD	2.23	0.42
46:UJ:282:ARG:CZ	46:UJ:282:ARG:HA	2.48	0.42
45:UM:176:GLN:NE2	45:UM:177:VAL:HG23	2.34	0.42
45:UM:356:ASN:OD1	45:UM:357:TYR:N	2.51	0.42
45:VC:141:VAL:HG11	45:VC:172:TYR:HA	2.01	0.42
45:VG:209:ILE:HG13	45:VG:302:MET:CE	2.49	0.42
45:VG:224:TYR:CE1	46:VH:323:THR:HG21	2.54	0.42
46:VH:312:THR:HG22	46:VH:370:ASN:HB3	2.00	0.42
45:VI:178:SER:OG	46:VJ:347:ASN:HB3	2.19	0.42
45:VI:222:PRO:HD2	46:VJ:324:LYS:CE	2.49	0.42
46:VJ:178:THR:HB	46:VJ:181:GLU:HG3	2.01	0.42
46:VL:285:THR:O	46:VL:289:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VL:379:LYS:HE3	46:VL:379:LYS:HB2	1.68	0.42
45:VM:68:LEU:HD21	45:VM:118:CYS:SG	2.59	0.42
45:WA:214:ARG:NH2	45:WA:220:GLU:HA	2.33	0.42
45:WA:260:VAL:HB	46:WD:397:TRP:CH2	2.53	0.42
45:WG:166:LYS:HD2	45:WG:197:HIS:O	2.19	0.42
45:WG:211:ASP:HA	45:WG:214:ARG:CG	2.48	0.42
45:WK:429:GLU:O	45:WK:433:GLU:OE1	2.36	0.42
46:WL:105:HIS:HD2	46:WL:146:GLY:O	2.02	0.42
45:WM:18:ASN:O	45:WM:22:GLU:OE1	2.36	0.42
6:0F:32:ILE:HD13	45:DE:84:ARG:HB2	2.00	0.42
11:0S:261:LEU:HD12	46:AB:424:GLN:HG3	2.01	0.42
17:1F:166:VAL:HG22	45:GK:114:ILE:HD11	2.00	0.42
19:1J:201:LYS:NZ	45:IG:285:GLN:O	2.51	0.42
21:1L:282:LYS:NZ	46:BH:355:ASP:HB3	2.34	0.42
20:2K:379:ARG:NH1	45:GG:282:TYR:HB2	2.33	0.42
21:2L:658:ARG:HH12	46:BN:45:GLU:N	2.17	0.42
1:3A:152:LYS:HZ1	34:6R:78:ILE:N	2.15	0.42
27:3C:67:LYS:HZ1	45:LA:81:GLY:HA2	1.84	0.42
31:3I:243:LYS:HE3	45:FI:120:ASP:OD2	2.19	0.42
23:3O:343:ALA:HB2	46:UJ:359:LYS:NZ	2.33	0.42
14:3V:22:ARG:NH2	45:MA:422:ARG:HB3	2.32	0.42
36:5C:75:TYR:HB2	46:NJ:320:ARG:HH12	1.84	0.42
36:5D:102:TYR:HA	45:KM:393:HIS:CD2	2.53	0.42
37:5E:149:ARG:O	37:5E:152:GLN:HG3	2.19	0.42
34:5R:16:CYS:SG	34:5R:18:PRO:HD3	2.59	0.42
35:5S:123:GLY:O	35:5S:127:LEU:HD23	2.19	0.42
10:6Q:14:LEU:HB2	10:6Q:25:TRP:HE1	1.84	0.42
34:6R:397:SER:OG	46:EN:276:ARG:HB2	2.20	0.42
34:6R:485:TYR:HD1	34:6R:489:ASP:OD2	2.03	0.42
34:6R:549:MET:O	34:6R:553:ILE:HG12	2.19	0.42
34:7R:516:MET:HE3	34:7R:526:ALA:HB2	2.01	0.42
34:7R:542:TYR:CE2	34:7R:551:LEU:HD11	2.55	0.42
46:AB:6:HIS:O	46:AB:63:ALA:HA	2.19	0.42
46:AB:288:GLU:O	46:AB:291:GLN:HG3	2.18	0.42
46:AB:313:ALA:HB1	46:AB:367:PHE:CE1	2.53	0.42
45:AC:102:ASN:ND2	45:AC:407:TRP:O	2.52	0.42
45:AC:223:THR:HG23	45:AC:225:THR:H	1.84	0.42
45:AC:224:TYR:CD1	47:AC:501:GTP:C6	3.07	0.42
46:AD:104:GLY:O	46:AD:147:MET:HG2	2.19	0.42
45:AE:200:VAL:HG13	45:AE:268:MET:HE2	2.01	0.42
45:AE:264:ARG:HA	45:AE:264:ARG:HD3	1.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AF:36:TYR:CD2	46:AF:44:LEU:HD21	2.54	0.42
45:AG:161:TYR:HB3	45:AG:164:LYS:HG2	2.00	0.42
45:AG:339:ARG:HG2	45:AG:339:ARG:HH11	1.84	0.42
46:AH:132:GLY:HA3	46:AH:163:ILE:HB	2.01	0.42
45:AK:210:TYR:HB3	46:AL:324:LYS:HE3	2.00	0.42
45:AK:332:ILE:HD12	45:AK:351:PHE:HE2	1.84	0.42
45:AM:87:PHE:HB3	45:AM:92:LEU:HD11	2.00	0.42
46:AN:295:ASP:OD2	46:AN:296:ALA:N	2.52	0.42
45:BC:107:HIS:ND1	45:BC:107:HIS:O	2.53	0.42
45:BC:250:VAL:HG13	45:BC:254:GLU:HG3	2.01	0.42
46:BD:181:GLU:N	46:BD:182:PRO:HD2	2.34	0.42
45:BE:231:ILE:O	45:BE:235:ILE:HG12	2.20	0.42
46:BF:201:VAL:HG23	46:BF:301:CYS:SG	2.58	0.42
45:BG:152:LEU:O	45:BG:155:GLU:HG3	2.19	0.42
46:BH:391:ARG:HA	46:BH:391:ARG:HD2	1.79	0.42
46:BN:299:MET:HG3	46:BN:305:PRO:HG3	2.01	0.42
45:CA:188:ILE:HD11	45:CA:391:LEU:HB3	2.00	0.42
45:CA:268:MET:HE3	45:CA:378:ILE:HG13	2.02	0.42
46:CF:86:ARG:CG	46:DF:281:TYR:CE1	3.02	0.42
45:CG:203:MET:HG3	45:CG:384:ILE:HD11	2.01	0.42
45:CG:338:LYS:HD3	45:CG:340:THR:HG22	2.01	0.42
45:CI:9:VAL:HG13	45:CI:139:ASN:HB3	2.00	0.42
45:CI:14:ILE:HD11	45:CI:69:ASP:HB2	2.00	0.42
46:CL:133:PHE:CD1	46:CL:155:VAL:HG11	2.54	0.42
46:CL:287:PRO:O	46:CL:291:GLN:OE1	2.36	0.42
46:CL:287:PRO:HG3	46:CL:329:GLN:NE2	2.34	0.42
46:DD:293:MET:HE2	46:DD:367:PHE:CD1	2.54	0.42
46:DH:11:GLN:NE2	49:DH:501:GDP:O3B	2.44	0.42
46:DH:11:GLN:HB3	46:DH:72:THR:HG21	2.00	0.42
46:DH:289:LEU:HD13	46:DH:365:VAL:HG23	2.00	0.42
45:DI:308:ARG:HG3	45:DI:308:ARG:HH11	1.85	0.42
45:DK:269:LEU:HD12	45:DK:301:MET:HE2	2.01	0.42
46:DL:287:PRO:HA	46:DL:329:GLN:NE2	2.33	0.42
45:DM:265:ILE:HG22	45:DM:432:TYR:CE1	2.54	0.42
45:EA:31:GLN:HB2	45:EA:35:GLN:O	2.19	0.42
46:EB:2:ARG:HH22	45:EC:97:GLU:HA	1.84	0.42
45:EC:260:VAL:H	46:ED:397:TRP:HH2	1.66	0.42
46:ED:428:ALA:HB1	45:EE:401:LYS:HZ2	1.84	0.42
45:EG:211:ASP:HA	45:EG:214:ARG:HG2	2.00	0.42
46:EH:153:SER:HB2	46:EH:191:GLN:HE21	1.83	0.42
45:EI:414:GLU:CD	45:EI:416:GLY:H	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EJ:313:ALA:HB1	46:EJ:367:PHE:HE1	1.84	0.42
45:EK:194:LEU:O	45:EK:198:THR:HG22	2.19	0.42
45:EK:324:VAL:HG12	45:EK:326:LYS:HG2	2.00	0.42
46:EL:139:LEU:HD22	46:EL:170:VAL:HG12	2.01	0.42
45:EM:33:ASP:HA	45:EM:85:GLN:HG3	2.01	0.42
45:EM:52:PHE:HZ	45:EM:239:THR:HG21	1.83	0.42
45:EM:91:GLN:CD	45:EM:121:ARG:HH21	2.22	0.42
45:EM:208:ALA:O	45:EM:212:ILE:HG12	2.18	0.42
46:EN:12:CYS:SG	46:EN:138:SER:HB2	2.59	0.42
46:EN:142:GLY:HA2	46:EN:184:ASN:OD1	2.19	0.42
46:EN:398:TYR:CD2	46:EN:408:PHE:HZ	2.37	0.42
46:FD:105:HIS:CD2	46:FD:150:LEU:HB2	2.54	0.42
46:FD:318:ARG:HH11	46:FD:358:PRO:HG3	1.84	0.42
46:FD:385:PHE:HE2	46:FD:412:GLU:HB3	1.85	0.42
45:FE:217:LEU:HD23	45:FE:217:LEU:HA	1.79	0.42
45:FG:296:PHE:HE1	45:FG:377:MET:HE3	1.84	0.42
46:FH:244:GLY:HA3	46:FH:354:CYS:HA	2.01	0.42
46:FN:391:ARG:HA	46:FN:391:ARG:HD2	1.80	0.42
45:GA:32:PRO:HB3	45:GA:83:TYR:CE1	2.54	0.42
45:GA:172:TYR:CD2	45:GA:203:MET:HG3	2.54	0.42
45:GC:108:TYR:HA	45:GC:112:LYS:HZ2	1.83	0.42
45:GE:229:ARG:HH12	45:GE:363:VAL:HG11	1.84	0.42
45:GE:317:MET:CE	45:GE:332:ILE:HD11	2.49	0.42
45:GI:135:PHE:HB2	45:GI:166:LYS:HG2	2.00	0.42
46:GN:3:GLU:HG3	46:GN:62:ARG:HH12	1.84	0.42
46:GN:388:MET:N	46:GN:388:MET:HE2	2.33	0.42
46:HB:130:LEU:HD11	46:HB:132:GLY:O	2.19	0.42
45:HE:179:THR:HG23	46:HF:351:SER:OG	2.19	0.42
46:HF:10:GLY:O	46:HF:14:ASN:ND2	2.52	0.42
45:HG:88:HIS:CE1	45:HG:90:GLU:HG3	2.54	0.42
46:HH:32:PRO:HG3	46:HH:81:PHE:CE1	2.54	0.42
46:HH:263:LEU:HG	46:HH:422:TYR:CE2	2.54	0.42
45:HK:141:VAL:HG22	45:HK:187:SER:HA	2.00	0.42
45:IA:20:CYS:HB2	45:IA:24:PHE:CZ	2.53	0.42
45:IA:119:LEU:HD11	45:IA:156:ARG:HG2	2.00	0.42
45:IC:3:GLU:OE2	45:IC:129:CYS:HB3	2.19	0.42
45:IC:17:GLY:HA2	45:IC:20:CYS:SG	2.58	0.42
45:IE:329:ASN:HA	45:IE:332:ILE:HG22	2.02	0.42
45:IG:370:LYS:HD2	45:IG:370:LYS:O	2.18	0.42
45:II:72:PRO:O	45:II:76:ASP:HB2	2.19	0.42
45:IK:121:ARG:HA	45:IK:121:ARG:HE	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IK:253:THR:HG23	45:IK:254:GLU:OE1	2.19	0.42
45:IM:186:ASN:OD1	45:IM:187:SER:N	2.52	0.42
46:IN:67:ASP:O	46:IN:92:PHE:HA	2.18	0.42
46:IN:119:VAL:O	46:IN:123:GLU:OE1	2.37	0.42
45:JA:395:PHE:CD2	45:JA:422:ARG:HD3	2.53	0.42
45:JC:238:LEU:HG	45:JC:318:MET:HE1	2.01	0.42
46:JF:190:HIS:CD2	46:JF:411:ALA:HA	2.44	0.42
45:JG:256:GLN:HB3	46:JJ:397:TRP:CZ2	2.55	0.42
46:JH:390:ARG:CZ	46:JH:390:ARG:HB3	2.49	0.42
46:JL:16:ILE:HD13	46:JL:226:ASN:OD1	2.18	0.42
46:JL:73:MET:O	46:JL:76:VAL:HG12	2.20	0.42
46:JL:187:LEU:HD21	46:JL:408:PHE:CD2	2.54	0.42
45:JM:20:CYS:HA	45:JM:232:ALA:CB	2.49	0.42
45:JM:419:SER:O	45:JM:422:ARG:N	2.52	0.42
46:JN:324:LYS:HB2	46:JN:328:GLU:OE1	2.19	0.42
46:KH:267:MET:HE2	46:KH:299:MET:HG2	2.01	0.42
45:KK:404:PHE:CE1	46:KL:259:PRO:HA	2.54	0.42
46:LB:121:ARG:O	46:LB:125:GLU:HG2	2.18	0.42
45:LG:27:GLU:HG2	45:LG:243:ARG:HH12	1.84	0.42
45:LK:96:LYS:HB3	45:LK:97:GLU:OE1	2.19	0.42
45:LK:397:LEU:HD23	46:LL:346:PRO:HD3	2.00	0.42
45:LM:387:VAL:HG12	45:LM:390:ARG:NH2	2.34	0.42
45:MA:261:PRO:HA	46:MD:394:PHE:CE2	2.54	0.42
45:MC:64:ARG:NH1	45:MC:129:CYS:SG	2.92	0.42
46:MF:404:ASP:OD1	46:MF:406:MET:HB2	2.19	0.42
45:MG:210:TYR:CE1	45:MG:227:LEU:HD21	2.54	0.42
46:MH:200:MET:HE3	46:MH:268:ILE:HG21	2.01	0.42
45:MI:101:ASN:OD1	46:MJ:252:LYS:HE3	2.19	0.42
46:MN:1:MET:HG3	46:MN:2:ARG:N	2.32	0.42
45:NA:87:PHE:HB3	45:NA:92:LEU:HD11	2.00	0.42
45:NA:96:LYS:HA	45:NA:96:LYS:HD2	1.83	0.42
46:NB:39:ASP:H	46:NB:43:GLN:HE22	1.66	0.42
46:NB:252:LYS:HG2	46:NB:256:ASN:ND2	2.32	0.42
46:NB:269:GLY:HA2	46:NB:300:MET:SD	2.59	0.42
46:ND:95:THR:OG1	46:ND:108:GLU:OE2	2.36	0.42
46:NF:211:CYS:HB2	46:NF:217:LEU:HD21	2.01	0.42
45:NG:127:ASP:OD1	45:NG:128:ASN:N	2.52	0.42
46:NH:39:ASP:OD1	46:NH:40:SER:N	2.52	0.42
45:NI:3:GLU:HG2	45:NI:132:LEU:HA	2.01	0.42
46:NL:2:ARG:HB3	46:NL:131:GLN:HG3	2.01	0.42
45:NM:37:PRO:HB2	45:NM:39:ASP:OD1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OA:222:PRO:HG2	46:OB:324:LYS:HD2	2.01	0.42
46:OB:306:ARG:HD2	46:OB:340:TYR:CE2	2.54	0.42
45:OC:288:VAL:HG11	45:OC:323:VAL:HG13	2.01	0.42
46:OD:248:SER:HA	46:OD:252:LYS:HE3	2.00	0.42
45:OE:253:THR:O	45:OE:256:GLN:NE2	2.52	0.42
45:OE:394:LYS:O	45:OE:398:MET:HG2	2.20	0.42
45:OG:115:VAL:HG11	45:OG:152:LEU:HD23	2.01	0.42
45:OG:119:LEU:HA	45:OG:122:ILE:HG22	2.01	0.42
46:OH:207:LEU:HA	46:OH:210:ILE:HG22	2.00	0.42
45:OI:3:GLU:OE2	45:OI:131:GLY:N	2.52	0.42
45:OI:336:LYS:HA	45:OI:336:LYS:HD3	1.82	0.42
46:OL:35:THR:CG2	46:OL:37:HIS:CE1	3.01	0.42
46:OL:100:ASN:HB3	46:OL:103:LYS:HB3	2.01	0.42
45:OM:324:VAL:HG12	45:OM:326:LYS:HG2	2.02	0.42
46:ON:109:GLY:O	46:ON:113:ILE:HG23	2.18	0.42
45:PA:2:ARG:NH2	46:PD:69:GLU:HG2	2.32	0.42
45:PE:70:LEU:HD13	45:PE:145:THR:OG1	2.19	0.42
45:PE:141:VAL:HG22	45:PE:187:SER:HA	2.01	0.42
46:PF:86:ARG:O	46:PF:89:ASN:HB2	2.19	0.42
45:PG:278:ALA:HA	45:PG:369:ALA:HB2	2.00	0.42
45:PG:319:TYR:CE2	45:PG:328:VAL:HG22	2.54	0.42
46:PJ:5:VAL:HG12	46:PJ:62:ARG:HD3	2.01	0.42
46:PJ:389:PHE:HD2	46:PJ:390:ARG:NH2	2.17	0.42
45:PK:120:ASP:HB3	45:PK:124:LYS:HZ3	1.84	0.42
45:PK:229:ARG:HH12	45:PK:363:VAL:HG11	1.84	0.42
46:PN:2:ARG:HB3	46:PN:131:GLN:HE21	1.85	0.42
46:PN:164:MET:O	46:PN:197:ASP:HB2	2.19	0.42
46:PN:232:ALA:HB1	46:PN:268:ILE:HD12	2.01	0.42
45:QC:171:ILE:HG13	45:QC:171:ILE:O	2.19	0.42
45:QG:245:ASP:OD2	45:QG:246:GLY:N	2.52	0.42
45:QG:430:LYS:HD3	45:QG:430:LYS:C	2.39	0.42
46:QH:183:TYR:O	46:QH:187:LEU:HD13	2.18	0.42
45:QI:89:PRO:HG2	45:RI:280:LYS:HD3	2.00	0.42
45:QI:319:TYR:CE2	45:QI:375:VAL:HB	2.54	0.42
46:QJ:258:ILE:O	46:QJ:258:ILE:HG13	2.19	0.42
46:QJ:394:PHE:HD1	46:QJ:397:TRP:CH2	2.36	0.42
46:QL:69:GLU:HA	46:QL:70:PRO:HD3	1.85	0.42
46:QL:225:LEU:HD13	46:QL:225:LEU:HA	1.82	0.42
45:QM:171:ILE:HG22	45:QM:204:LEU:HB2	2.01	0.42
45:RC:422:ARG:HH11	45:RC:425:LEU:HD12	1.83	0.42
46:RD:65:LEU:HD22	46:RD:90:PHE:HE1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RD:69:GLU:CD	46:RD:71:GLY:H	2.23	0.42
46:RD:203:ASP:OD2	46:RD:205:GLU:HB3	2.19	0.42
45:RE:71:GLU:HA	45:RE:72:PRO:HD3	1.85	0.42
45:RE:184:PRO:O	45:RE:188:ILE:HG12	2.19	0.42
45:RE:194:LEU:HB2	45:RE:198:THR:OG1	2.19	0.42
45:RE:261:PRO:HA	46:RF:394:PHE:HD1	1.84	0.42
46:RF:147:MET:O	46:RF:151:LEU:HD23	2.19	0.42
45:RG:4:VAL:HG12	45:RG:133:GLN:HB2	2.01	0.42
45:RG:383:ALA:O	45:RG:386:GLU:HG2	2.19	0.42
46:RH:60:VAL:HG11	46:RH:86:ARG:HD2	2.00	0.42
46:RH:105:HIS:CE1	46:RH:150:LEU:HD12	2.53	0.42
46:RH:259:PRO:HA	45:RI:404:PHE:CE1	2.55	0.42
46:RH:377:MET:O	46:RH:380:ARG:HG2	2.19	0.42
46:RJ:153:SER:O	46:RJ:157:GLU:OE1	2.37	0.42
46:RJ:205:GLU:HA	46:RJ:208:TYR:HD2	1.84	0.42
46:RL:271:ALA:HB3	46:RL:293:MET:CE	2.49	0.42
46:RL:379:LYS:O	46:RL:383:GLU:OE1	2.37	0.42
45:RM:118:CYS:O	45:RM:122:ILE:HG12	2.19	0.42
46:SB:4:ILE:HG23	46:SB:50:TYR:HE2	1.83	0.42
45:SC:11:GLN:HE21	47:SC:501:GTP:PB	2.42	0.42
45:SC:387:VAL:HG12	45:SC:390:ARG:NH2	2.31	0.42
45:SG:333:ALA:O	45:SG:337:THR:HG23	2.18	0.42
46:SJ:258:ILE:HG13	46:SJ:258:ILE:O	2.20	0.42
45:SK:137:VAL:HG13	45:SK:168:GLY:HA2	2.02	0.42
46:SL:318:ARG:HG2	46:SL:358:PRO:HD3	2.01	0.42
46:SN:10:GLY:O	46:SN:14:ASN:ND2	2.52	0.42
46:SN:260:PHE:HB2	46:SN:263:LEU:HD13	2.01	0.42
46:TB:322:SER:HB2	45:TC:223:THR:HA	2.00	0.42
45:TC:88:HIS:ND1	45:TC:89:PRO:HD2	2.33	0.42
45:TC:192:HIS:ND1	45:TC:421:ALA:HA	2.33	0.42
45:TC:348:PRO:HD2	46:TD:388:MET:HE1	2.00	0.42
45:TE:10:GLY:O	45:TE:14:ILE:HG12	2.19	0.42
46:TH:36:TYR:CD2	46:TH:44:LEU:HD21	2.54	0.42
46:TH:51:TYR:O	46:TH:62:ARG:NH2	2.43	0.42
46:TH:58:ARG:HH21	46:UH:281:TYR:HA	1.84	0.42
46:TH:318:ARG:O	46:TH:363:MET:HA	2.20	0.42
45:TK:201:ALA:HB3	45:TK:267:PHE:CD1	2.52	0.42
45:TK:234:VAL:O	45:TK:238:LEU:HD23	2.19	0.42
46:TL:216:LYS:HB2	46:TL:216:LYS:HE3	1.80	0.42
45:TM:9:VAL:HG13	45:TM:139:ASN:HB3	2.02	0.42
45:TM:53:PHE:CE2	45:TM:63:PRO:HG3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UA:19:ALA:HA	45:UA:22:GLU:OE1	2.18	0.42
46:UD:316:LEU:HB2	46:UD:366:THR:HG22	2.02	0.42
45:UE:217:LEU:HD21	45:UE:368:LEU:HD22	2.00	0.42
45:UE:315:CYS:O	45:UE:351:PHE:HA	2.18	0.42
46:UH:323:THR:HG22	46:UH:353:ILE:HG13	2.01	0.42
46:UJ:166:THR:HG21	46:UJ:192:LEU:HD11	2.01	0.42
45:UK:50:ASN:O	45:UK:64:ARG:NH2	2.43	0.42
45:UK:408:TYR:HB3	45:UK:413:MET:HG3	2.01	0.42
46:UL:31:ASP:OD2	46:UL:37:HIS:ND1	2.52	0.42
46:UL:217:LEU:HB2	46:UL:220:PRO:HG3	2.01	0.42
45:UM:271:SER:HB3	45:UM:377:MET:SD	2.59	0.42
46:UN:318:ARG:HE	46:UN:364:ALA:HB3	1.84	0.42
45:VA:71:GLU:HG3	45:VA:98:ASP:HB2	2.01	0.42
45:VA:401:LYS:HB2	45:VA:401:LYS:HE3	1.71	0.42
45:VC:107:HIS:ND1	45:VC:107:HIS:O	2.52	0.42
45:VE:325:PRO:HB2	46:VH:208:TYR:OH	2.18	0.42
45:VE:387:VAL:HA	45:VE:390:ARG:HG2	2.00	0.42
46:VF:394:PHE:HD2	46:VF:397:TRP:CZ3	2.37	0.42
45:VG:261:PRO:HA	46:VJ:394:PHE:HD2	1.83	0.42
46:VH:9:GLY:HA2	46:VH:66:MET:O	2.19	0.42
46:VH:190:HIS:HD2	46:VH:411:ALA:HA	1.83	0.42
45:VK:236:SER:HA	45:VK:239:THR:HG22	2.02	0.42
45:WC:190:SER:O	45:WC:194:LEU:HG	2.18	0.42
46:WD:290:THR:CG2	46:WD:329:GLN:HE21	2.32	0.42
46:WD:326:VAL:O	46:WD:330:MET:HG2	2.19	0.42
45:WE:268:MET:HB3	45:WE:268:MET:HE2	1.82	0.42
45:WE:394:LYS:NZ	46:WF:347:ASN:OD1	2.52	0.42
45:WI:75:ILE:O	45:WI:79:ARG:HG2	2.19	0.42
45:WK:70:LEU:HB3	45:WK:97:GLU:O	2.19	0.42
45:WK:231:ILE:O	45:WK:235:ILE:HG12	2.19	0.42
46:WL:83:GLN:HE21	46:WL:84:LEU:HD22	1.83	0.42
45:WM:167:LEU:HG	45:WM:200:VAL:HB	2.00	0.42
46:WN:31:ASP:OD1	46:WN:34:GLY:N	2.53	0.42
46:WN:329:GLN:OE1	46:WN:330:MET:HE2	2.19	0.42
45:CE:107:HIS:ND1	45:CE:107:HIS:O	2.52	0.42
45:DC:239:THR:HG23	45:DC:243:ARG:HE	1.84	0.42
45:DC:288:VAL:HG21	45:DC:327:ASP:CB	2.49	0.42
11:OS:275:TYR:CD1	46:WB:122:LYS:HE2	2.53	0.42
19:1J:262:VAL:HG22	45:II:372:MET:SD	2.59	0.42
21:1L:901:LYS:N	46:CB:320:ARG:HH12	2.18	0.42
24:1P:392:LYS:HD3	45:TA:370:LYS:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:1X:81:ARG:HE	46:MF:276:ARG:HB2	1.85	0.42
28:2F:81:LYS:NZ	46:GF:128:ASP:HA	2.34	0.42
31:3I:197:GLN:HE21	45:FK:123:ARG:HA	1.84	0.42
23:3O:246:GLU:OE1	46:UN:276:ARG:NH2	2.51	0.42
34:4R:604:SER:HA	34:4R:607:VAL:HG12	2.01	0.42
36:5C:33:ALA:HA	36:5C:36:ARG:HH21	1.83	0.42
37:5E:104:MET:HG3	37:5E:105:LYS:N	2.33	0.42
37:5H:56:VAL:HA	46:ON:276:ARG:NH1	2.32	0.42
10:5Q:53:ASN:OD1	45:AK:400:ALA:HA	2.20	0.42
34:5R:429:LYS:HE2	34:5R:429:LYS:HB3	1.81	0.42
34:5R:518:SER:O	34:5R:520:PRO:HD3	2.18	0.42
39:6F:132:HIS:CE1	46:IH:359:LYS:HZ3	2.37	0.42
10:6Q:20:LYS:HA	10:6Q:20:LYS:HD2	1.75	0.42
34:7R:429:LYS:HE2	34:7R:429:LYS:HB3	1.87	0.42
44:8R:99:UNK:CB	46:PL:276:ARG:HH12	2.33	0.42
44:8R:144:ALA:HA	44:8R:147:TYR:CD1	2.54	0.42
45:AC:181:VAL:HG12	46:AD:347:ASN:O	2.20	0.42
46:AD:239:CYS:SG	46:AD:247:ASN:HA	2.59	0.42
46:AF:262:ARG:HH12	46:AF:421:GLU:HG3	1.83	0.42
46:AJ:172:SER:HA	46:AJ:173:PRO:HD3	1.89	0.42
45:AK:105:ARG:HA	45:AK:411:GLU:OE1	2.19	0.42
46:AL:318:ARG:HH11	46:AL:318:ARG:HG2	1.84	0.42
45:AM:339:ARG:NE	45:AM:339:ARG:HA	2.34	0.42
46:AN:21:TRP:CZ3	46:AN:61:PRO:HB3	2.55	0.42
45:BC:192:HIS:NE2	45:BC:424:ASP:OD2	2.52	0.42
45:BC:257:THR:HA	46:BF:397:TRP:CH2	2.54	0.42
46:BF:3:GLU:CD	46:BF:3:GLU:H	2.22	0.42
46:BF:378:PHE:HA	46:BF:381:VAL:HG22	2.01	0.42
45:BG:85:GLN:N	45:BG:85:GLN:OE1	2.53	0.42
46:BL:20:PHE:O	46:BL:24:ILE:HG12	2.20	0.42
46:BL:345:ILE:O	46:BL:345:ILE:HG23	2.18	0.42
45:BM:287:SER:O	45:BM:291:ILE:HG12	2.19	0.42
45:BM:324:VAL:HG12	45:BM:326:LYS:HG2	2.01	0.42
46:BN:276:ARG:HA	46:BN:279:GLN:HB2	2.01	0.42
46:CB:183:TYR:OH	46:CB:393:ALA:O	2.31	0.42
46:CB:334:GLN:HA	46:CB:341:PHE:CE2	2.53	0.42
45:CG:171:ILE:HG23	45:CG:204:LEU:O	2.19	0.42
45:CG:342:GLN:HE21	45:CG:342:GLN:CA	2.31	0.42
45:CI:89:PRO:HD3	45:DI:283:HIS:ND1	2.34	0.42
45:CI:101:ASN:HA	45:CI:144:GLY:H	1.83	0.42
46:CJ:198:GLU:HG2	46:CJ:266:PHE:CE2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CL:259:PRO:HA	45:CM:404:PHE:CD1	2.54	0.42
46:CN:215:LEU:HB3	46:CN:217:LEU:HD23	2.01	0.42
46:DD:55:THR:H	46:ED:283:ALA:HB2	1.85	0.42
45:DE:9:VAL:O	45:DE:139:ASN:HA	2.19	0.42
45:DE:191:THR:HA	45:DE:194:LEU:HG	2.02	0.42
45:DG:8:HIS:HD2	45:DG:67:PHE:CE1	2.37	0.42
46:DH:409:THR:O	46:DH:412:GLU:HG3	2.20	0.42
45:DI:5:ILE:HB	45:DI:135:PHE:CD2	2.54	0.42
45:DI:114:ILE:HD11	45:DI:149:LEU:HD11	2.00	0.42
45:DI:169:PHE:HD1	45:DI:202:VAL:HB	1.84	0.42
45:DK:91:GLN:OE1	45:DK:91:GLN:N	2.52	0.42
45:DK:349:THR:HG23	46:DL:179:VAL:HA	2.01	0.42
46:DL:139:LEU:CD1	46:DL:168:SER:HB3	2.49	0.42
45:DM:88:HIS:HB3	45:DM:91:GLN:HG2	2.01	0.42
45:DM:272:TYR:N	45:DM:302:MET:HE1	2.34	0.42
46:DN:391:ARG:HA	46:DN:391:ARG:HD2	1.81	0.42
45:EA:141:VAL:HG12	45:EA:171:ILE:O	2.19	0.42
45:EA:296:PHE:CE2	45:EA:335:ILE:HG13	2.54	0.42
45:EC:79:ARG:O	45:EC:84:ARG:HG2	2.18	0.42
45:EC:434:GLU:O	45:EC:437:ILE:HG12	2.20	0.42
46:ED:86:ARG:HD2	46:FD:281:TYR:HB3	2.01	0.42
45:EE:419:SER:O	45:EE:423:GLU:HG2	2.19	0.42
46:EH:11:GLN:NE2	49:EH:501:GDP:O3B	2.47	0.42
46:EH:414:ASN:O	46:EH:418:LEU:HD23	2.19	0.42
46:FF:345:ILE:HG23	46:FF:345:ILE:O	2.18	0.42
46:FH:398:TYR:HB3	46:FH:403:MET:HE3	2.02	0.42
45:FI:102:ASN:ND2	45:FI:105:ARG:HG3	2.33	0.42
45:FI:223:THR:HG23	45:FI:225:THR:H	1.84	0.42
45:FK:194:LEU:O	45:FK:198:THR:HG22	2.19	0.42
46:GB:36:TYR:HE2	46:GB:43:GLN:HB3	1.84	0.42
45:GC:256:GLN:NE2	46:GF:397:TRP:HH2	2.16	0.42
46:GD:21:TRP:CZ2	46:GD:63:ALA:HB2	2.54	0.42
46:GD:391:ARG:HA	46:GD:391:ARG:HD2	1.71	0.42
46:GH:395:LEU:HD23	46:GH:395:LEU:HA	1.81	0.42
45:GI:387:VAL:HA	45:GI:390:ARG:HG2	2.01	0.42
45:GK:231:ILE:O	45:GK:235:ILE:HG12	2.20	0.42
46:GN:396:HIS:HA	46:GN:399:THR:HG22	2.01	0.42
46:HB:121:ARG:HD2	46:HB:122:LYS:N	2.35	0.42
46:HD:51:TYR:HE1	46:HD:61:PRO:HG3	1.84	0.42
45:HE:107:HIS:ND1	45:HE:107:HIS:O	2.52	0.42
46:HH:287:PRO:HG3	46:HH:329:GLN:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HI:176:GLN:HE22	45:HI:177:VAL:HG23	1.84	0.42
45:HK:176:GLN:OE1	45:HK:176:GLN:N	2.52	0.42
45:HK:258:ASN:HB2	45:HK:259:LEU:HD12	2.01	0.42
45:HK:324:VAL:HG12	45:HK:326:LYS:HG2	2.00	0.42
45:HK:349:THR:O	46:HN:179:VAL:HG23	2.19	0.42
46:HL:5:VAL:HG12	46:HL:62:ARG:HD3	2.00	0.42
46:HL:46:ARG:O	46:HL:49:VAL:HG22	2.19	0.42
46:HN:306:ARG:HA	46:HN:340:TYR:HE1	1.84	0.42
46:ID:173:PRO:HD3	46:ID:380:ARG:CZ	2.48	0.42
46:ID:272:PRO:HG3	46:ID:284:LEU:HD11	2.02	0.42
45:IG:2:ARG:O	45:IG:51:THR:HA	2.19	0.42
45:IG:346:TRP:CD1	46:IJ:391:ARG:HG3	2.55	0.42
45:II:275:ILE:HG23	45:II:368:LEU:HD11	2.00	0.42
46:IJ:385:PHE:CE2	46:IJ:412:GLU:HB3	2.55	0.42
45:IM:235:ILE:O	45:IM:239:THR:HG22	2.19	0.42
45:IM:288:VAL:HA	45:IM:291:ILE:HG12	2.00	0.42
46:JB:151:LEU:O	46:JB:155:VAL:HG22	2.19	0.42
46:JB:186:THR:HA	46:JB:189:VAL:HG12	2.01	0.42
46:JB:203:ASP:OD2	46:JB:302:ALA:N	2.29	0.42
45:JG:149:LEU:HA	45:JG:149:LEU:HD12	1.82	0.42
46:JJ:101:TRP:H	46:JJ:398:TYR:HE2	1.65	0.42
46:JL:203:ASP:OD2	46:JL:205:GLU:HB3	2.20	0.42
45:JM:22:GLU:O	45:JM:26:LEU:HD23	2.18	0.42
45:JM:377:MET:SD	45:JM:379:SER:HB3	2.60	0.42
45:JM:387:VAL:HA	45:JM:390:ARG:HG2	2.01	0.42
46:JN:119:VAL:HA	46:JN:122:LYS:HE3	2.02	0.42
46:JN:376:GLU:N	46:JN:376:GLU:OE1	2.52	0.42
46:KB:20:PHE:HA	46:KB:230:SER:OG	2.19	0.42
45:KC:71:GLU:HA	45:KC:72:PRO:HD3	1.89	0.42
45:KC:81:GLY:O	45:KC:84:ARG:HG3	2.18	0.42
46:KD:153:SER:O	46:KD:157:GLU:HG3	2.19	0.42
46:KD:173:PRO:HG2	46:KD:380:ARG:HD3	2.01	0.42
45:KE:352:LYS:HA	46:KH:177:ASP:O	2.19	0.42
45:KG:296:PHE:HD2	45:KG:335:ILE:HD12	1.84	0.42
45:KI:56:THR:OG1	45:LI:283:HIS:O	2.31	0.42
45:KM:309:HIS:CD2	45:NM:282:TYR:CE1	3.06	0.42
46:LB:21:TRP:CZ3	46:LB:61:PRO:HB3	2.53	0.42
46:LB:324:LYS:HG3	46:LB:325:GLU:N	2.34	0.42
46:LD:86:ARG:HH22	46:MD:281:TYR:CB	2.32	0.42
46:LF:36:TYR:CD1	46:LF:44:LEU:HD21	2.53	0.42
46:LF:164:MET:O	46:LF:197:ASP:HB2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LI:270:SER:O	45:LI:302:MET:HB3	2.19	0.42
45:LK:260:VAL:HG23	46:LN:397:TRP:HE1	1.83	0.42
45:LM:187:SER:O	45:LM:191:THR:HG23	2.18	0.42
45:MA:69:ASP:OD2	45:MA:70:LEU:N	2.51	0.42
46:MB:21:TRP:CZ3	46:MB:61:PRO:HB3	2.54	0.42
46:MB:304:ASP:HB3	46:MB:307:HIS:CD2	2.54	0.42
46:MB:390:ARG:NE	46:MB:390:ARG:HA	2.34	0.42
45:MC:127:ASP:OD1	45:MC:128:ASN:N	2.52	0.42
45:MG:377:MET:SD	45:MG:379:SER:HB3	2.59	0.42
45:MI:205:ASP:OD1	45:MI:303:ALA:HA	2.20	0.42
45:MI:254:GLU:OE2	46:ML:99:ASN:ND2	2.51	0.42
46:ML:9:GLY:HA2	46:ML:66:MET:O	2.19	0.42
46:ML:293:MET:HE2	46:ML:367:PHE:HD1	1.84	0.42
45:MM:268:MET:HG3	45:MM:380:ASN:HB2	2.01	0.42
45:MM:419:SER:O	45:MM:423:GLU:OE1	2.36	0.42
46:NB:32:PRO:HB2	46:NB:83:GLN:NE2	2.35	0.42
46:NB:162:ARG:HE	46:NB:163:ILE:H	1.68	0.42
46:NB:406:MET:O	46:NB:410:GLU:OE1	2.37	0.42
45:NC:7:ILE:HG23	45:NC:137:VAL:HG23	2.01	0.42
46:NH:86:ARG:HA	46:OH:281:TYR:CD2	2.54	0.42
45:NK:1:MET:O	45:NK:131:GLY:HA3	2.19	0.42
45:NM:298:PRO:HG3	45:NM:308:ARG:NE	2.34	0.42
46:NN:105:HIS:CE1	46:NN:150:LEU:HD12	2.54	0.42
45:OA:88:HIS:ND1	45:OA:90:GLU:HG3	2.34	0.42
45:OA:128:ASN:OD1	45:OA:129:CYS:N	2.52	0.42
46:OB:133:PHE:HD2	46:OB:155:VAL:HG11	1.85	0.42
46:OD:200:MET:HE3	46:OD:266:PHE:HB2	2.00	0.42
46:OD:208:TYR:HA	46:OD:211:CYS:SG	2.58	0.42
45:OE:289:ALA:O	45:OE:292:THR:HG22	2.19	0.42
46:OH:116:VAL:HA	46:OH:119:VAL:HG12	2.01	0.42
46:OH:257:LEU:O	46:OH:259:PRO:HD3	2.19	0.42
45:OI:211:ASP:O	45:OI:214:ARG:HG3	2.18	0.42
45:OK:88:HIS:CD2	45:OK:90:GLU:HB3	2.54	0.42
45:OM:68:LEU:HD13	45:OM:93:ILE:HB	2.00	0.42
45:OM:180:ALA:HA	46:ON:350:LYS:NZ	2.35	0.42
46:ON:258:ILE:HD12	46:ON:264:HIS:HB3	2.01	0.42
46:ON:314:SER:HA	46:ON:350:LYS:HB3	2.01	0.42
46:PB:156:ARG:HH11	46:PB:164:MET:HE3	1.84	0.42
45:PC:352:LYS:HB2	45:PC:352:LYS:HE2	1.80	0.42
45:PC:387:VAL:HA	45:PC:390:ARG:HG2	2.01	0.42
45:PE:67:PHE:HB2	45:PE:92:LEU:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PF:229:VAL:O	46:PF:233:MET:HG2	2.19	0.42
46:PJ:266:PHE:HE1	46:PJ:370:ASN:HB2	1.84	0.42
45:PM:124:LYS:HE2	45:PM:124:LYS:HB2	1.87	0.42
45:PM:171:ILE:HG22	45:PM:204:LEU:HB3	2.00	0.42
45:PM:398:MET:CE	46:PN:345:ILE:HA	2.49	0.42
46:QB:3:GLU:HB3	46:QB:49:VAL:HA	2.01	0.42
46:QB:205:GLU:OE2	46:QB:302:ALA:HB2	2.19	0.42
45:QC:68:LEU:HD21	45:QC:118:CYS:SG	2.60	0.42
45:QC:384:ILE:O	45:QC:387:VAL:HG12	2.20	0.42
46:QD:66:MET:HE2	46:QD:147:MET:HG2	2.01	0.42
45:QE:141:VAL:HG12	45:QE:171:ILE:O	2.19	0.42
45:QE:143:GLY:HA3	47:QE:501:GTP:O2B	2.20	0.42
45:QE:384:ILE:O	45:QE:387:VAL:HG22	2.19	0.42
46:QF:44:LEU:HD23	46:QF:44:LEU:HA	1.90	0.42
46:QF:297:LYS:HD3	46:QF:297:LYS:HA	1.83	0.42
45:QI:88:HIS:NE2	45:QI:90:GLU:HG2	2.35	0.42
45:QM:217:LEU:HG	45:QM:219:ILE:HG13	2.02	0.42
46:RB:135:ILE:CD1	46:RB:152:ILE:HD11	2.48	0.42
46:RB:139:LEU:HD13	46:RB:168:SER:HB3	2.01	0.42
46:RB:258:ILE:HG22	46:RB:266:PHE:HZ	1.84	0.42
45:RC:31:GLN:N	45:RC:31:GLN:OE1	2.52	0.42
46:RF:380:ARG:O	46:RF:383:GLU:HG2	2.19	0.42
45:RG:268:MET:CE	45:RG:380:ASN:HB2	2.50	0.42
45:RG:274:PRO:HG3	45:RG:286:LEU:HD12	2.01	0.42
45:RI:225:THR:O	45:RI:229:ARG:HG2	2.19	0.42
45:RI:251:ASP:OD1	45:RI:252:ILE:N	2.52	0.42
46:RL:12:CYS:HA	46:RL:15:GLN:NE2	2.30	0.42
46:RL:74:ASP:OD1	46:RL:77:ARG:NH2	2.46	0.42
46:RL:255:VAL:HA	45:RM:407:TRP:CH2	2.54	0.42
45:RM:317:MET:HB3	45:RM:319:TYR:CE1	2.54	0.42
46:RN:5:VAL:HA	46:RN:62:ARG:HG3	2.01	0.42
46:RN:391:ARG:HD2	46:RN:391:ARG:HA	1.83	0.42
45:SE:254:GLU:O	45:SE:255:PHE:HD2	2.02	0.42
45:SE:288:VAL:HA	45:SE:291:ILE:HG12	2.00	0.42
45:SE:396:ASP:OD1	45:SE:422:ARG:NH1	2.52	0.42
46:SF:3:GLU:HB2	46:SF:127:CYS:SG	2.59	0.42
46:SF:391:ARG:HD2	46:SF:391:ARG:HA	1.83	0.42
46:SH:86:ARG:HG2	46:SH:86:ARG:NH1	2.34	0.42
46:SH:257:LEU:HB3	46:SH:266:PHE:CE1	2.54	0.42
45:SI:115:VAL:HG21	45:SI:152:LEU:CD2	2.49	0.42
45:SI:377:MET:HE2	45:SI:379:SER:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SI:390:ARG:O	45:SI:394:LYS:HG2	2.18	0.42
46:SJ:221:THR:HG23	46:SJ:224:ASP:H	1.84	0.42
46:SL:174:LYS:HB2	46:SL:205:GLU:OE1	2.18	0.42
45:SM:56:THR:HG23	45:SM:58:ALA:H	1.84	0.42
46:TB:1:MET:O	46:TB:2:ARG:HG2	2.19	0.42
46:TB:150:LEU:HG	46:TB:154:LYS:HZ1	1.82	0.42
45:TC:51:THR:HG22	45:TC:52:PHE:CD2	2.54	0.42
46:TD:186:THR:HG23	46:TD:415:MET:SD	2.59	0.42
45:TE:127:ASP:OD1	45:TE:128:ASN:N	2.53	0.42
45:TE:214:ARG:HH21	45:TE:215:ARG:HH21	1.68	0.42
46:TF:102:ALA:O	46:TF:106:TYR:HB2	2.18	0.42
46:TF:116:VAL:O	46:TF:120:VAL:HG23	2.19	0.42
46:TF:257:LEU:HB3	46:TF:266:PHE:CZ	2.54	0.42
46:TH:6:HIS:HD2	46:TH:7:ILE:N	2.17	0.42
46:TL:2:ARG:NE	45:TM:97:GLU:HA	2.23	0.42
46:TL:252:LYS:HZ1	47:TM:501:GTP:PG	2.42	0.42
45:TM:33:ASP:HA	45:TM:85:GLN:HE21	1.84	0.42
45:TM:229:ARG:NH2	45:TM:368:LEU:HB3	2.34	0.42
45:TM:292:THR:HG21	45:TM:331:SER:HB3	2.00	0.42
46:UB:30:ILE:HD13	46:UB:36:TYR:HA	2.01	0.42
46:UB:273:LEU:H	46:UB:292:GLN:HE22	1.67	0.42
45:UC:385:ALA:HA	45:UC:388:PHE:HD2	1.84	0.42
46:UD:377:MET:O	46:UD:380:ARG:HG2	2.18	0.42
45:UE:231:ILE:O	45:UE:235:ILE:HG12	2.19	0.42
46:UF:201:VAL:HG13	46:UF:301:CYS:SG	2.59	0.42
45:UG:434:GLU:O	45:UG:437:ILE:HG12	2.19	0.42
46:UH:304:ASP:HB3	46:UH:307:HIS:CG	2.55	0.42
45:UI:10:GLY:O	45:UI:14:ILE:HG12	2.19	0.42
46:UJ:167:PHE:CZ	46:UJ:200:MET:HG3	2.54	0.42
46:UJ:180:VAL:O	46:UJ:180:VAL:HG12	2.19	0.42
46:UJ:415:MET:O	46:UJ:419:VAL:HG23	2.19	0.42
45:UK:3:GLU:OE2	45:UK:130:THR:N	2.53	0.42
46:UL:127:CYS:SG	46:UL:130:LEU:HB3	2.60	0.42
46:UL:184:ASN:OD1	46:UL:185:ALA:N	2.51	0.42
45:UM:326:LYS:HE2	46:UN:220:PRO:CD	2.42	0.42
45:VA:88:HIS:HB3	45:VA:91:GLN:HG2	2.01	0.42
45:VA:175:PRO:HD2	45:VA:207:GLU:OE2	2.19	0.42
45:VA:224:TYR:O	45:VA:227:LEU:HB2	2.19	0.42
46:VB:350:LYS:HA	46:VB:350:LYS:HE2	2.01	0.42
45:VC:145:THR:OG1	47:VC:501:GTP:O3G	2.26	0.42
46:VD:293:MET:HG3	46:VD:365:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VE:174:SER:HB2	45:VE:177:VAL:O	2.19	0.42
46:VH:309:ARG:NH2	46:VH:426:GLN:O	2.36	0.42
45:VI:141:VAL:HG11	45:VI:172:TYR:HA	2.00	0.42
45:VI:261:PRO:HA	46:VL:394:PHE:CE1	2.55	0.42
46:VJ:164:MET:SD	46:VJ:166:THR:OG1	2.75	0.42
46:VL:3:GLU:O	46:VL:4:ILE:HD13	2.19	0.42
46:VL:207:LEU:HA	46:VL:210:ILE:HG12	2.01	0.42
45:WG:333:ALA:O	45:WG:337:THR:HG23	2.19	0.42
46:WH:117:LEU:HA	46:WH:120:VAL:HG12	2.01	0.42
45:WK:326:LYS:HE2	46:WN:220:PRO:CB	2.48	0.42
45:WK:387:VAL:O	45:WK:391:LEU:HD23	2.19	0.42
46:WL:1:MET:HA	46:WL:1:MET:HE2	2.00	0.42
46:WL:9:GLY:HA2	46:WL:66:MET:O	2.19	0.42
46:WL:105:HIS:CD2	46:WL:146:GLY:O	2.72	0.42
46:WN:229:VAL:O	46:WN:233:MET:HG2	2.19	0.42
46:WN:378:PHE:HB3	46:WN:415:MET:HE2	2.01	0.42
45:DC:97:GLU:HG2	45:DC:105:ARG:HH22	1.84	0.42
45:DC:186:ASN:OD1	45:DC:187:SER:N	2.52	0.42
1:0A:36:ARG:NE	45:MA:77:GLU:HG2	2.33	0.42
15:0X:49:ILE:HG12	45:MA:282:TYR:CD2	2.53	0.42
18:1I:195:PHE:HZ	15:4X:139:ARG:H	1.65	0.42
21:1L:64:ASP:OD2	45:BI:279:GLU:HG2	2.18	0.42
21:1L:643:ARG:NH2	46:CD:357:PRO:O	2.52	0.42
25:1R:92:TRP:CZ3	45:AC:370:LYS:HG3	2.54	0.42
26:1W:140:ILE:HD11	45:LC:282:TYR:CD1	2.53	0.42
4:2D:95:GLN:OE1	45:EK:364:PRO:HB2	2.19	0.42
12:2T:74:ILE:HD12	45:MG:159:VAL:HG22	2.02	0.42
26:2W:280:ASP:HA	46:LL:320:ARG:NH2	2.34	0.42
10:3Q:53:ASN:ND2	45:AG:396:ASP:OD1	2.52	0.42
25:3R:101:ARG:NH1	45:AK:41:THR:HG21	2.35	0.42
11:3S:43:TYR:CE1	45:WK:124:LYS:HD2	2.54	0.42
34:4R:259:ASN:HB2	34:4R:351:ASN:HB3	2.01	0.42
37:5F:27:ARG:HH22	45:OC:221:ARG:NH2	2.16	0.42
37:5G:104:MET:HG3	37:5G:105:LYS:N	2.27	0.42
37:5H:40:TYR:HB3	37:5H:42:TYR:CE1	2.54	0.42
35:5S:153:LYS:HA	35:5S:158:MET:HE2	2.00	0.42
40:6G:99:HIS:O	40:6G:102:GLU:HG3	2.18	0.42
40:6G:227:PRO:HA	45:UE:123:ARG:NH2	2.34	0.42
41:6H:261:LYS:HA	41:6H:261:LYS:HD2	1.83	0.42
46:AB:19:LYS:O	46:AB:23:VAL:HG23	2.18	0.42
46:AB:101:TRP:HB3	46:AB:398:TYR:HE1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AB:283:ALA:HA	46:MB:55:THR:HG23	2.00	0.42
45:AC:226:ASN:O	45:AC:230:LEU:HD23	2.20	0.42
46:AD:19:LYS:HD2	46:AD:22:GLU:OE1	2.19	0.42
46:AD:345:ILE:HG23	46:AD:345:ILE:O	2.19	0.42
45:AE:124:LYS:HE2	45:AE:124:LYS:HB3	1.90	0.42
46:AF:22:GLU:HG2	46:AF:81:PHE:HD1	1.85	0.42
45:AM:90:GLU:CG	45:BM:280:LYS:HZ1	2.30	0.42
46:BD:105:HIS:CE1	46:BD:150:LEU:HD12	2.55	0.42
45:BE:207:GLU:HA	45:BE:210:TYR:HB2	2.02	0.42
46:BF:146:GLY:O	46:BF:149:THR:HG22	2.20	0.42
45:BG:209:ILE:HG21	45:BG:227:LEU:HG	2.00	0.42
45:BG:340:THR:HG23	45:BG:341:ILE:HG13	2.00	0.42
46:BH:390:ARG:O	46:BH:392:LYS:NZ	2.52	0.42
45:BI:102:ASN:HB3	45:BI:105:ARG:HB2	2.01	0.42
45:BI:207:GLU:HB2	45:BI:304:LYS:HE3	2.01	0.42
46:BJ:221:THR:HG23	46:BJ:224:ASP:H	1.83	0.42
46:BJ:395:LEU:O	46:BJ:399:THR:HG23	2.18	0.42
46:BL:372:THR:HA	46:BL:422:TYR:CE1	2.53	0.42
46:BN:190:HIS:HB3	46:BN:191:GLN:OE1	2.19	0.42
45:CA:226:ASN:O	45:CA:230:LEU:HD23	2.19	0.42
45:CA:296:PHE:HD2	45:CA:335:ILE:HD12	1.85	0.42
46:CB:45:GLU:OE1	46:CB:46:ARG:HG2	2.18	0.42
46:CF:45:GLU:O	46:CF:46:ARG:HD3	2.18	0.42
46:CF:391:ARG:NH2	45:CE:439:THR:HB	2.34	0.42
45:CG:200:VAL:HG13	45:CG:268:MET:CE	2.49	0.42
45:CI:152:LEU:O	45:CI:155:GLU:HG2	2.19	0.42
46:CL:119:VAL:HA	46:CL:122:LYS:HG2	2.00	0.42
46:CL:267:MET:HE1	46:CL:301:CYS:HB2	2.01	0.42
45:DA:55:GLU:HG3	45:DA:57:GLY:H	1.84	0.42
45:DA:141:VAL:HG12	45:DA:171:ILE:O	2.19	0.42
46:DB:130:LEU:HD21	46:DB:133:PHE:CZ	2.54	0.42
46:DB:225:LEU:O	46:DB:228:LEU:HG	2.19	0.42
46:DD:313:ALA:HB3	46:DD:349:ILE:HD13	2.01	0.42
45:DE:242:LEU:HD11	45:DE:252:ILE:HG13	2.00	0.42
45:DG:123:ARG:NH1	45:DG:123:ARG:HA	2.35	0.42
45:DG:311:LYS:NZ	45:DG:342:GLN:HB3	2.33	0.42
45:DI:192:HIS:ND1	45:DI:424:ASP:OD2	2.51	0.42
46:DJ:139:LEU:HD13	46:DJ:170:VAL:HG12	2.01	0.42
45:DK:132:LEU:HD22	45:DK:164:LYS:NZ	2.34	0.42
46:DL:380:ARG:O	46:DL:384:GLN:HG2	2.19	0.42
45:DM:19:ALA:O	45:DM:22:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DM:210:TYR:CE1	45:DM:227:LEU:HD21	2.54	0.42
46:DN:201:VAL:HG23	46:DN:301:CYS:SG	2.60	0.42
45:EA:19:ALA:HA	45:EA:22:GLU:OE1	2.18	0.42
46:EB:350:LYS:HA	45:EC:179:THR:O	2.19	0.42
45:EC:140:SER:OG	47:EC:501:GTP:O2B	2.37	0.42
46:ED:310:TYR:CD1	46:ED:371:SER:HB2	2.54	0.42
46:EF:221:THR:HG23	46:EF:223:GLY:N	2.35	0.42
46:EF:309:ARG:NH2	46:EF:426:GLN:O	2.42	0.42
45:EG:17:GLY:HA2	45:EG:20:CYS:SG	2.59	0.42
46:EH:102:ALA:HB2	46:EH:403:MET:SD	2.60	0.42
46:EH:407:GLU:O	46:EH:410:GLU:HG3	2.20	0.42
46:EL:105:HIS:CE1	46:EL:150:LEU:HD12	2.54	0.42
46:EL:312:THR:HG22	46:EL:370:ASN:HB3	2.01	0.42
45:EM:124:LYS:HE2	45:EM:124:LYS:HB2	1.89	0.42
45:EM:245:ASP:N	45:EM:245:ASP:OD1	2.53	0.42
46:EN:6:HIS:O	46:EN:63:ALA:HA	2.19	0.42
45:FA:140:SER:OG	47:FA:501:GTP:O2B	2.33	0.42
46:FB:145:SER:HB2	46:FB:188:SER:HB3	2.02	0.42
46:FB:334:GLN:OE1	46:FB:347:ASN:HA	2.19	0.42
45:FC:7:ILE:CD1	45:FC:122:ILE:HD11	2.44	0.42
45:FC:105:ARG:NH1	46:FD:251:ARG:HD3	2.34	0.42
46:FD:10:GLY:O	46:FD:14:ASN:ND2	2.53	0.42
46:FD:173:PRO:HG2	46:FD:380:ARG:HD3	2.01	0.42
45:FE:118:CYS:O	45:FE:122:ILE:HG12	2.19	0.42
46:FF:258:ILE:O	46:FF:258:ILE:HG13	2.20	0.42
45:FG:132:LEU:HD22	45:FG:164:LYS:NZ	2.34	0.42
46:FH:252:LYS:HG2	46:FH:350:LYS:HE2	2.01	0.42
46:FJ:290:THR:HA	46:FJ:293:MET:CE	2.49	0.42
45:FK:181:VAL:HG12	46:FL:348:ASN:HA	2.01	0.42
46:FL:156:ARG:NH2	46:FL:197:ASP:OD2	2.52	0.42
46:FL:172:SER:OG	46:FL:175:VAL:HG22	2.20	0.42
46:FL:215:LEU:HD21	46:FL:273:LEU:HD12	2.02	0.42
45:FM:331:SER:O	45:FM:335:ILE:HG12	2.20	0.42
46:FN:318:ARG:O	46:FN:363:MET:HA	2.18	0.42
45:GA:81:GLY:O	45:GA:84:ARG:HG3	2.20	0.42
45:GC:88:HIS:HE1	45:GC:90:GLU:HB3	1.84	0.42
45:GC:147:SER:HB2	45:GC:190:SER:HB3	2.02	0.42
46:GD:3:GLU:H	46:GD:3:GLU:CD	2.22	0.42
45:GE:129:CYS:SG	45:GE:132:LEU:HB2	2.59	0.42
45:GG:288:VAL:CG1	45:GG:327:ASP:HB3	2.33	0.42
46:GH:301:CYS:SG	46:GH:302:ALA:N	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GK:21:TRP:HZ2	45:GK:65:ALA:HB2	1.84	0.42
45:GK:171:ILE:HG23	45:GK:204:LEU:O	2.19	0.42
45:GM:224:TYR:CD1	45:GM:227:LEU:HD12	2.55	0.42
45:HA:88:HIS:HB3	45:HA:91:GLN:OE1	2.19	0.42
45:HA:210:TYR:CE1	45:HA:227:LEU:HD11	2.54	0.42
45:HC:11:GLN:NE2	46:HD:245:GLN:O	2.52	0.42
45:HC:268:MET:N	45:HC:268:MET:SD	2.92	0.42
45:HE:9:VAL:HG13	45:HE:139:ASN:HB3	2.01	0.42
45:HE:221:ARG:HB3	46:HF:322:SER:HB3	2.01	0.42
45:HE:239:THR:HG23	45:HE:243:ARG:HH12	1.84	0.42
46:HH:51:TYR:HE1	46:HH:61:PRO:HG3	1.83	0.42
46:HH:258:ILE:HD12	46:HH:264:HIS:HB3	2.01	0.42
46:HN:72:THR:O	46:HN:75:SER:OG	2.29	0.42
46:IB:289:LEU:HD23	46:IB:289:LEU:HA	1.80	0.42
46:IB:372:THR:HA	46:IB:422:TYR:HE2	1.84	0.42
46:IF:207:LEU:HB3	46:IF:225:LEU:HD22	2.01	0.42
45:IG:123:ARG:NH2	45:IG:127:ASP:OD1	2.52	0.42
45:IG:249:ASN:OD1	45:IG:250:VAL:N	2.51	0.42
45:II:73:THR:O	45:II:76:ASP:HB3	2.19	0.42
45:II:88:HIS:O	45:II:91:GLN:HG2	2.19	0.42
45:IK:127:ASP:OD1	45:IK:128:ASN:N	2.53	0.42
45:IK:224:TYR:CE2	46:IL:323:THR:HG21	2.54	0.42
46:IL:186:THR:HA	46:IL:189:VAL:HG12	2.01	0.42
45:IM:75:ILE:O	45:IM:79:ARG:HG3	2.19	0.42
45:IM:174:SER:OG	45:IM:207:GLU:OE1	2.21	0.42
46:IN:108:GLU:O	46:IN:111:GLU:HG3	2.19	0.42
46:IN:164:MET:N	46:IN:197:ASP:OD2	2.51	0.42
45:JA:212:ILE:HA	45:JA:215:ARG:HE	1.84	0.42
45:JC:245:ASP:OD1	45:JC:246:GLY:N	2.53	0.42
45:JC:439:THR:HG21	46:JF:390:ARG:HH12	1.84	0.42
45:JE:392:ASP:OD2	45:JE:425:LEU:HD22	2.18	0.42
45:JI:311:LYS:NZ	45:JI:342:GLN:HB2	2.34	0.42
45:JI:330:ALA:O	45:JI:334:THR:HG23	2.19	0.42
46:JJ:201:VAL:HG12	46:JJ:266:PHE:O	2.20	0.42
46:JN:19:LYS:HD3	46:JN:227:HIS:CG	2.55	0.42
46:JN:113:ILE:HA	46:JN:116:VAL:HG12	2.00	0.42
46:KB:107:THR:HG1	46:KB:108:GLU:CD	2.22	0.42
45:KE:5:ILE:HG12	45:KE:132:LEU:HD11	1.99	0.42
45:KE:201:ALA:HB3	45:KE:267:PHE:CD1	2.54	0.42
46:KF:248:SER:HA	46:KF:252:LYS:HD2	2.01	0.42
46:KH:136:THR:HG22	46:KH:167:PHE:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KK:296:PHE:CE2	45:KK:335:ILE:HG21	2.54	0.42
45:LA:141:VAL:HG22	45:LA:187:SER:HA	2.01	0.42
45:LA:161:TYR:CD1	45:LA:164:LYS:HG3	2.52	0.42
45:LA:257:THR:HG22	45:LA:257:THR:O	2.20	0.42
45:LC:21:TRP:HZ2	45:LC:65:ALA:HB2	1.84	0.42
45:LC:210:TYR:HE1	45:LC:227:LEU:HD21	1.85	0.42
46:LD:54:ALA:HB1	46:MD:281:TYR:O	2.19	0.42
46:LD:304:ASP:OD2	46:LD:306:ARG:NH2	2.52	0.42
45:LE:68:LEU:HD23	45:LE:93:ILE:HB	2.02	0.42
45:LG:31:GLN:HG3	45:LG:33:ASP:OD1	2.19	0.42
45:LG:200:VAL:HG13	45:LG:268:MET:SD	2.59	0.42
46:LH:336:LYS:HD3	46:LH:337:ASN:OD1	2.20	0.42
45:LK:318:MET:SD	45:LK:354:GLY:HA3	2.59	0.42
46:LL:268:ILE:HG22	46:LL:368:VAL:HG22	2.01	0.42
45:LM:104:ALA:HB1	45:LM:411:GLU:OE1	2.20	0.42
45:LM:174:SER:HB3	45:LM:207:GLU:OE1	2.19	0.42
46:LN:105:HIS:CE1	46:LN:150:LEU:HD12	2.55	0.42
46:LN:330:MET:CE	46:LN:349:ILE:HG21	2.49	0.42
45:MA:286:LEU:N	45:MA:290:GLU:OE2	2.53	0.42
46:MB:372:THR:HA	46:MB:422:TYR:CE2	2.53	0.42
45:ME:127:ASP:OD1	45:ME:128:ASN:N	2.52	0.42
45:MG:107:HIS:ND1	45:MG:107:HIS:O	2.53	0.42
45:MI:76:ASP:O	45:MI:80:THR:HG22	2.19	0.42
46:MJ:31:ASP:OD1	46:MJ:35:THR:HB	2.19	0.42
46:ML:36:TYR:CD2	46:ML:44:LEU:HD21	2.54	0.42
45:MM:4:VAL:HG12	45:MM:133:GLN:HB2	2.01	0.42
46:MN:203:ASP:O	46:MN:207:LEU:HG	2.18	0.42
45:NA:371:VAL:HG22	45:NA:373:ARG:H	1.84	0.42
45:NC:417:GLU:N	45:NC:417:GLU:OE1	2.50	0.42
45:NG:88:HIS:CE1	45:NG:90:GLU:HB3	2.54	0.42
45:NI:352:LYS:CE	46:NL:178:THR:HA	2.49	0.42
45:NI:434:GLU:O	45:NI:437:ILE:HG22	2.20	0.42
46:NJ:183:TYR:HA	46:NJ:385:PHE:HE1	1.84	0.42
46:NJ:391:ARG:HA	46:NJ:391:ARG:HD2	1.79	0.42
45:NK:76:ASP:HB3	45:NK:79:ARG:HH21	1.84	0.42
46:NL:174:LYS:HB2	46:NL:205:GLU:OE2	2.20	0.42
45:NM:296:PHE:CE2	45:NM:335:ILE:HG13	2.54	0.42
46:NN:5:VAL:HG12	46:NN:62:ARG:HD3	2.02	0.42
46:NN:379:LYS:O	46:NN:382:ALA:HB3	2.19	0.42
46:NN:396:HIS:HA	46:NN:399:THR:OG1	2.19	0.42
46:OD:318:ARG:HG2	46:OD:358:PRO:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OF:32:PRO:HG3	46:OF:81:PHE:CZ	2.54	0.42
45:OG:286:LEU:N	45:OG:290:GLU:OE1	2.52	0.42
45:OG:430:LYS:HA	45:OG:433:GLU:HG3	2.00	0.42
45:OI:265:ILE:HG12	45:OI:432:TYR:CE1	2.49	0.42
45:OK:75:ILE:HD12	45:OK:75:ILE:H	1.85	0.42
45:OK:288:VAL:HB	45:OK:327:ASP:OD2	2.19	0.42
46:OL:325:GLU:O	46:OL:329:GLN:HG3	2.19	0.42
46:ON:46:ARG:NH1	46:ON:240:LEU:O	2.43	0.42
46:ON:313:ALA:HB1	46:ON:367:PHE:CE1	2.54	0.42
45:PC:21:TRP:HZ3	45:PC:53:PHE:HE1	1.66	0.42
45:PC:209:ILE:HG12	45:PC:302:MET:SD	2.60	0.42
45:PC:280:LYS:HD2	45:PC:283:HIS:HB2	2.00	0.42
45:PC:356:ASN:OD1	45:PC:357:TYR:N	2.52	0.42
46:PD:388:MET:N	46:PD:388:MET:HE2	2.34	0.42
45:PE:217:LEU:HD12	45:PE:367:ASP:OD2	2.19	0.42
45:PG:115:VAL:O	45:PG:119:LEU:HD23	2.20	0.42
45:PG:319:TYR:CD2	45:PG:323:VAL:HG21	2.53	0.42
46:PJ:64:ILE:HG13	46:PJ:89:ASN:ND2	2.34	0.42
46:PL:200:MET:HG3	46:PL:266:PHE:HB2	2.00	0.42
45:PM:319:TYR:CD2	45:PM:323:VAL:HG21	2.54	0.42
46:PN:309:ARG:NH2	46:PN:426:GLN:O	2.44	0.42
46:PN:391:ARG:HD2	46:PN:391:ARG:HA	1.74	0.42
45:QA:252:ILE:HA	45:QA:255:PHE:CE2	2.54	0.42
45:QA:280:LYS:HA	45:QA:280:LYS:HD2	1.78	0.42
45:QC:252:ILE:HA	45:QC:255:PHE:CE1	2.54	0.42
45:QC:318:MET:HB2	45:QC:376:CYS:SG	2.59	0.42
46:QD:68:LEU:HD13	46:QD:143:THR:OG1	2.19	0.42
46:QF:317:PHE:HE2	46:QF:326:VAL:HG13	1.84	0.42
45:QG:1:MET:O	45:QG:131:GLY:HA3	2.19	0.42
45:QG:188:ILE:HD11	45:QG:391:LEU:HB3	2.02	0.42
45:QI:53:PHE:HB3	45:QI:61:HIS:HB3	2.01	0.42
46:QJ:21:TRP:CH2	46:QJ:50:TYR:HB3	2.54	0.42
46:QL:346:PRO:HD2	45:QM:397:LEU:HD11	2.02	0.42
45:RA:167:LEU:HG	45:RA:200:VAL:HB	2.01	0.42
45:RA:226:ASN:HA	45:RA:229:ARG:HE	1.83	0.42
45:RA:318:MET:HA	45:RA:318:MET:HE3	2.02	0.42
46:RB:313:ALA:HB1	46:RB:367:PHE:HE1	1.84	0.42
45:RC:7:ILE:HG13	45:RC:66:VAL:HG12	2.00	0.42
46:RD:268:ILE:HG13	46:RD:300:MET:HE2	2.00	0.42
46:RH:238:CYS:SG	46:RH:239:CYS:N	2.93	0.42
45:RI:276:ILE:HG23	45:RI:280:LYS:HZ3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RL:262:ARG:NH1	46:RL:421:GLU:HB2	2.32	0.42
45:RM:220:GLU:O	45:RM:221:ARG:HG3	2.19	0.42
45:SA:428:LEU:HG	45:SA:432:TYR:HE2	1.84	0.42
46:SB:58:ARG:NH1	46:TB:280:GLN:OE1	2.53	0.42
45:SC:187:SER:O	45:SC:191:THR:HG23	2.18	0.42
46:SD:68:LEU:HD12	46:SD:97:ALA:HB2	2.01	0.42
46:SD:230:SER:HA	46:SD:233:MET:HE3	2.02	0.42
46:SF:21:TRP:CZ3	46:SF:61:PRO:HB3	2.55	0.42
46:SF:255:VAL:HG12	45:SG:407:TRP:CZ3	2.54	0.42
45:SG:107:HIS:ND1	45:SG:107:HIS:O	2.52	0.42
46:SH:100:ASN:CB	46:SH:103:LYS:HZ2	2.33	0.42
46:SH:116:VAL:HA	46:SH:119:VAL:HG12	2.01	0.42
45:SI:55:GLU:OE2	45:SI:61:HIS:NE2	2.46	0.42
46:SJ:36:TYR:CZ	46:SJ:44:LEU:HD11	2.54	0.42
46:SJ:114:ASP:O	46:SJ:117:LEU:HG	2.20	0.42
46:SJ:151:LEU:O	46:SJ:155:VAL:HG22	2.19	0.42
45:SK:141:VAL:HG22	45:SK:187:SER:HA	2.02	0.42
45:SK:268:MET:N	45:SK:268:MET:SD	2.92	0.42
46:SL:162:ARG:HA	46:SL:251:ARG:HH22	1.84	0.42
45:SM:277:SER:HB2	45:SM:279:GLU:OE2	2.20	0.42
45:TC:226:ASN:HA	45:TC:229:ARG:NE	2.35	0.42
46:TD:185:ALA:O	46:TD:189:VAL:HG12	2.20	0.42
45:TE:107:HIS:O	45:TE:107:HIS:ND1	2.52	0.42
45:TE:188:ILE:HD12	45:TE:425:LEU:HD11	2.01	0.42
45:TE:387:VAL:HA	45:TE:390:ARG:HG2	2.02	0.42
45:TG:231:ILE:O	45:TG:235:ILE:HG12	2.19	0.42
45:TG:372:MET:HG2	45:TG:373:ARG:HG3	2.02	0.42
45:TI:17:GLY:O	45:TI:21:TRP:HD1	2.03	0.42
46:UB:2:ARG:CB	46:UB:131:GLN:HE21	2.22	0.42
46:UD:99:ASN:HA	46:UD:142:GLY:H	1.83	0.42
45:UG:260:VAL:H	46:UH:397:TRP:HH2	1.66	0.42
45:UG:331:SER:O	45:UG:335:ILE:HG12	2.19	0.42
45:UG:419:SER:O	45:UG:423:GLU:HG3	2.20	0.42
46:UJ:164:MET:H	46:UJ:197:ASP:HB2	1.85	0.42
46:UJ:324:LYS:HA	46:UJ:327:ASP:OD1	2.20	0.42
45:UK:98:ASP:CG	45:UK:100:ALA:H	2.22	0.42
45:UK:235:ILE:HD13	45:UK:238:LEU:HD21	1.99	0.42
45:UM:287:SER:HB3	45:UM:290:GLU:HG2	2.01	0.42
45:VA:183:GLU:N	45:VA:184:PRO:HD2	2.34	0.42
46:VB:325:GLU:OE2	46:VB:325:GLU:N	2.51	0.42
46:VB:326:VAL:O	46:VB:330:MET:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VC:431:ASP:O	45:VC:434:GLU:HG3	2.19	0.42
45:VG:88:HIS:HB3	45:VG:91:GLN:HG2	2.00	0.42
45:VG:100:ALA:HB1	46:VH:252:LYS:HA	2.00	0.42
45:VG:141:VAL:HG11	45:VG:172:TYR:CE1	2.54	0.42
45:VG:145:THR:HG22	47:VG:501:GTP:PG	2.59	0.42
45:VG:288:VAL:O	45:VG:291:ILE:HG22	2.20	0.42
46:VH:383:GLU:HA	46:VH:386:THR:HG22	2.00	0.42
45:VI:5:ILE:HB	45:VI:135:PHE:CD2	2.54	0.42
45:VI:287:SER:O	45:VI:290:GLU:HG2	2.19	0.42
45:VK:395:PHE:HZ	45:VK:418:PHE:HB3	1.83	0.42
46:VL:178:THR:HB	46:VL:181:GLU:HG3	2.00	0.42
46:VL:302:ALA:HB3	46:VL:377:MET:HE1	2.01	0.42
46:VN:187:LEU:HD11	46:VN:408:PHE:CE1	2.54	0.42
46:VN:292:GLN:HA	46:VN:295:ASP:OD2	2.19	0.42
45:WA:5:ILE:HB	45:WA:135:PHE:CD1	2.54	0.42
45:WA:71:GLU:HA	46:WB:2:ARG:HH22	1.84	0.42
45:WA:120:ASP:OD2	45:WA:121:ARG:N	2.53	0.42
46:WB:420:SER:O	46:WB:423:GLN:HG3	2.19	0.42
45:WC:222:PRO:HD2	46:WD:324:LYS:HG2	2.02	0.42
45:WC:345:ASP:N	45:WC:345:ASP:OD1	2.53	0.42
45:WE:308:ARG:H	45:WE:308:ARG:HG3	1.65	0.42
46:WF:285:THR:OG1	46:WF:287:PRO:HD2	2.19	0.42
45:WI:215:ARG:NH1	45:WI:299:ALA:O	2.52	0.42
45:WI:342:GLN:N	45:WI:342:GLN:OE1	2.53	0.42
46:WJ:208:TYR:HA	46:WJ:211:CYS:SG	2.60	0.42
46:WJ:396:HIS:HA	46:WJ:399:THR:CG2	2.43	0.42
45:WK:71:GLU:OE1	45:WK:73:THR:OG1	2.18	0.42
45:WK:73:THR:OG1	46:WL:247:ASN:ND2	2.53	0.42
45:WK:222:PRO:O	46:WL:322:SER:HB2	2.20	0.42
45:WK:420:GLU:HG2	45:WK:421:ALA:N	2.34	0.42
45:WK:421:ALA:HA	45:WK:424:ASP:OD1	2.19	0.42
46:WL:7:ILE:HG13	46:WL:64:ILE:HD13	2.01	0.42
45:CE:18:ASN:O	45:CE:22:GLU:OE1	2.37	0.42
45:CE:387:VAL:HA	45:CE:390:ARG:HG2	2.02	0.42
7:0G:143:ASP:OD1	45:JM:85:GLN:NE2	2.52	0.42
4:1D:224:ARG:NH2	34:4R:583:GLN:HA	2.29	0.42
7:1G:168:PHE:HB3	45:KA:1:MET:HG3	2.02	0.42
8:1H:86:LYS:CE	45:HK:369:ALA:HB1	2.48	0.42
8:1H:194:GLN:NE2	45:HG:282:TYR:HB2	2.35	0.42
25:1R:312:GLN:OE1	46:CD:361:LEU:HG	2.19	0.42
13:1U:488:PHE:HE1	45:VE:84:ARG:HH21	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2L:406:ARG:NH1	46:CN:357:PRO:O	2.53	0.42
21:2L:534:PHE:CE1	45:BM:219:ILE:HG22	2.55	0.42
25:2R:455:ASN:O	46:FH:276:ARG:NH2	2.26	0.42
21:3L:179:THR:OG1	45:CA:365:GLY:HA3	2.18	0.42
23:3O:406:ARG:NH1	46:UH:276:ARG:HD2	2.32	0.42
35:4S:186:ILE:HG13	35:4S:187:LEU:HD22	2.02	0.42
36:5B:75:TYR:HD1	46:NF:320:ARG:CZ	2.33	0.42
36:5C:68:ASP:HA	37:5G:69:LYS:HE3	2.01	0.42
37:5F:78:LEU:HD22	37:5F:97:ARG:HE	1.84	0.42
37:5F:123:ARG:CD	45:OE:372:MET:HE1	2.49	0.42
34:5R:462:ASN:HD22	41:6H:326:HIS:CE1	2.38	0.42
40:6G:264:SER:OG	40:6G:266:PRO:HD3	2.19	0.42
41:6H:168:ASN:HA	46:FB:360:GLY:HA2	2.01	0.42
46:AB:65:LEU:HD22	46:AB:90:PHE:CE1	2.52	0.42
46:AB:70:PRO:O	46:AB:74:ASP:HB2	2.19	0.42
45:AC:287:SER:O	45:AC:290:GLU:HG3	2.19	0.42
46:AD:77:ARG:HB3	46:AD:77:ARG:HH11	1.84	0.42
46:AD:86:ARG:HB3	46:AD:89:ASN:OD1	2.19	0.42
45:AG:141:VAL:HG11	45:AG:172:TYR:CD2	2.54	0.42
45:AG:175:PRO:HB2	45:AG:176:GLN:OE1	2.20	0.42
46:AJ:86:ARG:HB2	46:AJ:89:ASN:OD1	2.19	0.42
45:AK:74:VAL:O	45:AK:78:VAL:HG23	2.19	0.42
45:AK:227:LEU:O	45:AK:231:ILE:HG12	2.19	0.42
46:AN:68:LEU:HB3	46:AN:96:GLY:HA2	2.02	0.42
45:BC:3:GLU:OE2	45:BC:64:ARG:NH2	2.53	0.42
45:BE:222:PRO:HG2	46:BF:324:LYS:HD2	2.02	0.42
45:BE:259:LEU:HD11	45:BE:316:SER:HB3	2.02	0.42
46:BF:145:SER:O	46:BF:188:SER:OG	2.32	0.42
46:BF:282:ARG:NH2	46:BF:292:GLN:OE1	2.52	0.42
45:BG:384:ILE:O	45:BG:387:VAL:HG22	2.19	0.42
46:BH:21:TRP:CZ3	46:BH:61:PRO:HB3	2.54	0.42
45:BI:387:VAL:HG12	45:BI:390:ARG:NH1	2.35	0.42
45:BI:387:VAL:HA	45:BI:390:ARG:HG2	2.01	0.42
46:BJ:287:PRO:HD3	46:BJ:329:GLN:HE22	1.85	0.42
45:BM:11:GLN:O	45:BM:15:GLN:HG3	2.19	0.42
46:CB:241:ARG:HG3	46:CB:242:PHE:CD1	2.55	0.42
46:CF:86:ARG:HG2	46:DF:281:TYR:CE1	2.54	0.42
46:CF:321:MET:N	46:CF:321:MET:SD	2.93	0.42
46:CH:186:THR:HA	46:CH:189:VAL:HG12	2.00	0.42
46:CJ:113:ILE:HA	46:CJ:116:VAL:HG12	2.00	0.42
46:CL:392:LYS:HA	46:CL:395:LEU:CD1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:25:SER:OG	46:CN:51:TYR:OH	2.29	0.42
46:DD:20:PHE:O	46:DD:24:ILE:HG12	2.19	0.42
45:DE:5:ILE:HB	45:DE:135:PHE:HD1	1.84	0.42
45:DG:11:GLN:HB2	45:DG:74:VAL:HG11	2.00	0.42
45:DG:123:ARG:HA	45:DG:123:ARG:HH11	1.85	0.42
46:DH:167:PHE:CD2	46:DH:202:ILE:HD11	2.53	0.42
46:DH:257:LEU:HB3	46:DH:266:PHE:CZ	2.52	0.42
45:DI:384:ILE:O	45:DI:387:VAL:HG22	2.19	0.42
46:DJ:165:GLU:OE1	46:DJ:198:GLU:HG3	2.18	0.42
46:DL:420:SER:O	46:DL:423:GLN:HG3	2.20	0.42
45:DM:36:MET:SD	45:DM:37:PRO:HD2	2.59	0.42
46:DN:145:SER:HB2	46:DN:188:SER:HB3	2.00	0.42
46:EB:280:GLN:N	46:EB:280:GLN:OE1	2.52	0.42
45:EC:85:GLN:H	45:EC:85:GLN:CD	2.23	0.42
45:EC:154:LEU:HG	45:EC:197:HIS:HB3	2.00	0.42
46:ED:186:THR:HB	46:ED:415:MET:HE1	2.00	0.42
46:EF:171:PRO:HB3	46:EF:181:GLU:HB3	2.02	0.42
46:EH:145:SER:HB2	46:EH:188:SER:HB3	2.01	0.42
46:EH:322:SER:HB2	45:EI:222:PRO:O	2.20	0.42
46:EJ:3:GLU:HG3	46:EJ:62:ARG:HH12	1.84	0.42
46:EJ:306:ARG:HG2	46:EJ:340:TYR:CE2	2.55	0.42
46:EJ:331:LEU:HG	45:EK:177:VAL:HG22	2.00	0.42
45:EK:215:ARG:NH2	45:EK:299:ALA:O	2.52	0.42
45:EK:268:MET:HG3	45:EK:380:ASN:HB2	2.02	0.42
45:EM:115:VAL:HG22	45:EM:156:ARG:HH11	1.84	0.42
46:EN:212:PHE:CE2	46:EN:220:PRO:HG2	2.55	0.42
45:FC:141:VAL:HG11	45:FC:172:TYR:HA	2.01	0.42
45:FC:171:ILE:HG23	45:FC:204:LEU:O	2.19	0.42
46:FD:248:SER:HA	46:FD:252:LYS:HD2	2.00	0.42
46:FD:293:MET:HE2	46:FD:365:VAL:HG11	2.01	0.42
46:FD:309:ARG:N	46:FD:372:THR:OG1	2.42	0.42
45:FE:237:SER:HA	45:FE:320:ARG:HH11	1.84	0.42
45:FE:296:PHE:CE1	45:FE:377:MET:HE3	2.54	0.42
46:FH:290:THR:O	46:FH:293:MET:HB3	2.18	0.42
46:FH:359:LYS:C	46:FH:359:LYS:HD3	2.40	0.42
46:FL:183:TYR:CE2	46:FL:388:MET:HB3	2.53	0.42
46:FN:137:HIS:HE1	46:FN:139:LEU:CD2	2.32	0.42
45:GE:21:TRP:CZ2	45:GE:65:ALA:HB2	2.55	0.42
45:GG:286:LEU:HA	45:GG:290:GLU:OE2	2.19	0.42
46:GH:239:CYS:SG	46:GH:247:ASN:HA	2.60	0.42
45:GI:215:ARG:NH2	45:GI:300:ASN:OD1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:268:ILE:HG22	46:GN:368:VAL:HG22	2.01	0.42
45:HA:195:LEU:O	45:HA:266:HIS:NE2	2.39	0.42
45:HC:175:PRO:HG3	45:HC:390:ARG:NH1	2.35	0.42
46:HD:404:ASP:O	46:HD:407:GLU:HG2	2.19	0.42
45:HE:238:LEU:HD11	45:HE:255:PHE:CE2	2.55	0.42
46:HF:282:ARG:NH2	46:HF:292:GLN:OE1	2.50	0.42
45:HG:289:ALA:O	45:HG:292:THR:HG22	2.19	0.42
46:HJ:116:VAL:HA	46:HJ:119:VAL:HG12	2.02	0.42
46:HL:200:MET:CE	46:HL:268:ILE:HG21	2.49	0.42
46:HN:258:ILE:HG13	46:HN:266:PHE:HZ	1.84	0.42
45:IA:150:GLY:O	45:IA:154:LEU:HD23	2.20	0.42
45:IA:245:ASP:N	45:IA:245:ASP:OD1	2.51	0.42
45:IA:261:PRO:CD	45:IA:262:TYR:H	2.18	0.42
45:IC:133:GLN:HB3	45:IC:252:ILE:HD11	2.01	0.42
45:IE:329:ASN:O	45:IE:332:ILE:HG22	2.19	0.42
45:IG:69:ASP:HB3	45:IG:75:ILE:HD11	2.00	0.42
45:IG:280:LYS:HD2	45:IG:280:LYS:HA	1.79	0.42
46:IH:310:TYR:HE1	46:IH:367:PHE:HZ	1.67	0.42
46:IJ:238:CYS:SG	46:IJ:239:CYS:N	2.92	0.42
46:IJ:247:ASN:ND2	46:IJ:247:ASN:H	2.17	0.42
46:IJ:247:ASN:N	46:IJ:247:ASN:HD22	2.16	0.42
45:IK:261:PRO:HA	46:IN:394:PHE:CD2	2.54	0.42
46:IL:3:GLU:OE1	46:IL:127:CYS:HB3	2.20	0.42
46:IN:109:GLY:HA2	46:IN:112:LEU:HB3	2.01	0.42
46:IN:116:VAL:HA	46:IN:119:VAL:HG12	2.02	0.42
45:JA:31:GLN:OE1	45:JA:37:PRO:HD3	2.19	0.42
45:JA:63:PRO:HG2	45:JA:87:PHE:CE1	2.55	0.42
45:JC:52:PHE:HZ	45:JC:239:THR:HG21	1.84	0.42
45:JG:414:GLU:CD	45:JG:416:GLY:H	2.23	0.42
46:JJ:19:LYS:HZ1	46:JJ:227:HIS:HB2	1.84	0.42
46:JJ:73:MET:HE1	46:JJ:92:PHE:HB3	2.01	0.42
45:JK:278:ALA:HA	45:JK:369:ALA:HB2	2.01	0.42
45:KA:89:PRO:HD3	45:LA:283:HIS:CE1	2.54	0.42
45:KA:227:LEU:O	45:KA:231:ILE:HG12	2.20	0.42
46:KD:8:GLN:OE1	46:KD:17:GLY:HA3	2.19	0.42
46:KD:122:LYS:HG3	46:LD:291:GLN:HE21	1.85	0.42
46:KD:146:GLY:O	46:KD:149:THR:HG22	2.19	0.42
46:KF:226:ASN:HA	46:KF:229:VAL:HG12	2.01	0.42
46:KH:292:GLN:HG2	46:KH:298:ASN:ND2	2.30	0.42
46:KL:2:ARG:HB2	46:KL:131:GLN:HG3	2.01	0.42
45:KM:271:SER:HB2	45:KM:301:MET:HE2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KN:68:LEU:HD23	46:KN:143:THR:OG1	2.20	0.42
46:KN:259:PRO:HG2	46:KN:311:LEU:HD21	2.02	0.42
45:LE:171:ILE:HG23	45:LE:204:LEU:O	2.19	0.42
45:LE:384:ILE:O	45:LE:387:VAL:HG22	2.19	0.42
46:LF:417:ASP:O	46:LF:421:GLU:OE1	2.38	0.42
45:LG:351:PHE:HB2	46:LJ:176:SER:HB3	2.01	0.42
45:LI:428:LEU:HD12	45:LI:428:LEU:HA	1.88	0.42
46:LJ:285:THR:HB	46:LJ:287:PRO:HD2	2.01	0.42
45:LM:188:ILE:HD11	45:LM:391:LEU:HG	2.02	0.42
46:LN:286:VAL:HG21	46:LN:325:GLU:OE2	2.19	0.42
46:MF:8:GLN:HE21	46:MF:65:LEU:HD11	1.84	0.42
45:MG:102:ASN:ND2	45:MG:105:ARG:HG3	2.35	0.42
45:MI:118:CYS:O	45:MI:122:ILE:HG12	2.20	0.42
45:MI:425:LEU:HD23	45:MI:425:LEU:HA	1.90	0.42
45:MK:107:HIS:ND1	45:MK:107:HIS:O	2.53	0.42
46:NB:47:ILE:HG23	46:NB:51:TYR:CD2	2.54	0.42
46:NB:47:ILE:HG23	46:NB:51:TYR:HD2	1.84	0.42
46:NB:238:CYS:HA	46:NB:241:ARG:NH1	2.34	0.42
45:NC:408:TYR:O	45:NC:413:MET:HB3	2.19	0.42
46:ND:309:ARG:N	46:ND:372:THR:OG1	2.52	0.42
45:NE:258:ASN:ND2	45:NE:352:LYS:HD2	2.34	0.42
46:NH:316:LEU:HD13	46:NH:352:SER:OG	2.19	0.42
46:NH:407:GLU:O	46:NH:410:GLU:HG3	2.20	0.42
45:NI:209:ILE:HD12	45:NI:227:LEU:HD22	2.01	0.42
46:NJ:222:TYR:HD1	49:NJ:501:GDP:C6	2.37	0.42
46:NJ:256:ASN:CB	46:NJ:350:LYS:HD2	2.50	0.42
46:NN:245:GLN:HG2	46:NN:353:ILE:HG21	2.01	0.42
45:OA:271:SER:OG	45:OA:301:MET:HG3	2.20	0.42
45:OA:330:ALA:O	45:OA:334:THR:HG23	2.20	0.42
45:OC:331:SER:O	45:OC:335:ILE:HG12	2.19	0.42
46:OD:309:ARG:NH1	46:OD:339:SER:O	2.51	0.42
46:OD:345:ILE:HG13	46:OD:345:ILE:O	2.20	0.42
45:OE:105:ARG:NH1	45:OE:411:GLU:OE2	2.53	0.42
45:OI:188:ILE:HD12	45:OI:425:LEU:HD22	2.01	0.42
45:OK:3:GLU:OE2	45:OK:131:GLY:N	2.53	0.42
46:OL:324:LYS:O	46:OL:325:GLU:C	2.58	0.42
45:OM:164:LYS:HD3	45:OM:164:LYS:HA	1.80	0.42
45:OM:297:GLU:HB2	45:OM:300:ASN:HD22	1.85	0.42
45:PA:105:ARG:HH11	46:PB:251:ARG:HH12	1.68	0.42
46:PD:341:PHE:HD2	46:PD:348:ASN:HD21	1.66	0.42
45:PE:84:ARG:HG3	45:PE:85:GLN:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:352:LYS:HA	46:PH:177:ASP:O	2.19	0.42
46:PF:214:THR:HG23	46:PF:215:LEU:HD22	2.02	0.42
45:PG:22:GLU:HG2	45:PG:83:TYR:OH	2.20	0.42
45:PG:236:SER:HA	45:PG:239:THR:HG22	2.02	0.42
46:PH:187:LEU:O	46:PH:191:GLN:NE2	2.50	0.42
46:PJ:318:ARG:HB3	46:PJ:357:PRO:HA	2.02	0.42
46:PL:317:PHE:CD2	46:PL:365:VAL:HG22	2.55	0.42
45:PM:222:PRO:HG2	46:PN:324:LYS:CE	2.50	0.42
45:PM:231:ILE:O	45:PM:235:ILE:HG12	2.20	0.42
45:QA:268:MET:HB3	45:QA:268:MET:HE2	1.69	0.42
45:QE:99:ALA:HB3	45:QE:145:THR:HB	2.01	0.42
45:QG:296:PHE:HE2	45:QG:335:ILE:HG21	1.85	0.42
45:QG:319:TYR:CE1	45:QG:375:VAL:HB	2.55	0.42
45:QI:208:ALA:O	45:QI:212:ILE:HG12	2.19	0.42
45:QK:384:ILE:O	45:QK:387:VAL:HG12	2.19	0.42
46:QL:68:LEU:HD13	46:QL:143:THR:OG1	2.19	0.42
46:QL:321:MET:CG	45:QM:221:ARG:HH22	2.32	0.42
45:QM:217:LEU:HD11	45:QM:367:ASP:HB3	2.00	0.42
46:RD:117:LEU:HD21	46:RD:121:ARG:HH22	1.85	0.42
45:RE:220:GLU:OE2	45:RE:221:ARG:NH1	2.52	0.42
45:RE:404:PHE:HD1	45:RE:407:TRP:CZ3	2.36	0.42
46:RF:113:ILE:HD13	46:RF:154:LYS:HE3	2.02	0.42
45:RG:102:ASN:HD21	45:RG:411:GLU:CD	2.23	0.42
45:RG:359:PRO:HB2	45:RG:370:LYS:HZ3	1.81	0.42
46:RH:409:THR:O	46:RH:412:GLU:HG3	2.19	0.42
46:RJ:108:GLU:O	46:RJ:111:GLU:HG3	2.19	0.42
46:RL:69:GLU:HA	46:RL:70:PRO:HD3	1.90	0.42
46:RL:309:ARG:NH1	46:RL:426:GLN:O	2.53	0.42
46:RN:139:LEU:HD13	46:RN:168:SER:HB3	2.02	0.42
46:RN:293:MET:HG3	46:RN:367:PHE:HB2	2.02	0.42
46:RN:312:THR:HG22	46:RN:370:ASN:HB3	2.00	0.42
46:SB:326:VAL:HG21	46:SB:353:ILE:HD11	2.02	0.42
45:SC:10:GLY:O	45:SC:14:ILE:HG12	2.19	0.42
45:SC:90:GLU:N	45:SC:90:GLU:OE1	2.52	0.42
46:SD:406:MET:O	46:SD:410:GLU:OE1	2.36	0.42
46:SF:269:GLY:HA2	46:SF:300:MET:CE	2.49	0.42
46:SF:289:LEU:HD13	46:SF:365:VAL:HG23	2.02	0.42
45:SG:120:ASP:HB3	45:SG:124:LYS:NZ	2.33	0.42
46:SH:303:ALA:HA	46:SH:376:GLU:OE2	2.19	0.42
46:SL:4:ILE:HD11	46:SL:50:TYR:HE2	1.83	0.42
46:SL:40:SER:H	46:SL:43:GLN:NE2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:51:TYR:HE1	46:SL:61:PRO:HG3	1.85	0.42
46:SL:210:ILE:HD11	46:SL:299:MET:O	2.18	0.42
46:SN:139:LEU:HD13	46:SN:168:SER:HB3	2.00	0.42
46:TB:196:ALA:HB3	46:TB:264:HIS:CE1	2.54	0.42
46:TJ:294:PHE:CD2	46:TJ:333:VAL:HG11	2.55	0.42
45:TM:223:THR:HG23	45:TM:225:THR:H	1.85	0.42
46:UB:65:LEU:HD22	46:UB:90:PHE:CE1	2.49	0.42
45:UC:387:VAL:O	45:UC:391:LEU:HD23	2.20	0.42
46:UJ:2:ARG:HG3	46:UJ:2:ARG:NH1	2.34	0.42
45:UK:88:HIS:H	45:UK:91:GLN:NE2	2.17	0.42
46:UL:44:LEU:HD23	46:UL:44:LEU:HA	1.89	0.42
46:UL:102:ALA:HB2	46:UL:398:TYR:CD1	2.55	0.42
45:UM:183:GLU:N	45:UM:184:PRO:HD2	2.34	0.42
45:VA:79:ARG:O	45:VA:84:ARG:NE	2.53	0.42
45:VA:387:VAL:HG23	45:VA:388:PHE:HD2	1.85	0.42
46:VB:210:ILE:O	46:VB:214:THR:HG22	2.19	0.42
45:VC:104:ALA:HB2	45:VC:413:MET:HG2	2.01	0.42
45:VE:318:MET:HE1	45:VE:320:ARG:HB2	2.01	0.42
45:VE:393:HIS:O	45:VE:397:LEU:HD23	2.19	0.42
45:VK:47:ASP:OD2	45:VK:50:ASN:ND2	2.51	0.42
46:VL:154:LYS:O	46:VL:157:GLU:HG3	2.19	0.42
46:VL:210:ILE:O	46:VL:214:THR:HG22	2.20	0.42
46:VL:345:ILE:O	46:VL:345:ILE:HG23	2.20	0.42
46:VN:286:VAL:CG1	46:VN:287:PRO:HD3	2.49	0.42
45:WA:181:VAL:HG13	46:WB:350:LYS:HZ1	1.84	0.42
46:WB:147:MET:O	46:WB:150:LEU:HG	2.19	0.42
46:WB:256:ASN:CB	46:WB:350:LYS:HE3	2.48	0.42
46:WB:375:GLN:HB3	46:WB:379:LYS:HZ2	1.84	0.42
45:WC:133:GLN:HE21	45:WC:252:ILE:HG12	1.84	0.42
46:WJ:296:ALA:O	46:WJ:299:MET:HG2	2.20	0.42
46:WJ:391:ARG:HD2	46:WJ:391:ARG:HA	1.78	0.42
46:WL:309:ARG:NH1	46:WL:343:GLU:OE2	2.52	0.42
46:WL:325:GLU:OE2	46:WL:326:VAL:HG13	2.20	0.42
45:WM:331:SER:O	45:WM:335:ILE:HG12	2.19	0.42
45:WM:391:LEU:HD22	45:WM:394:LYS:NZ	2.35	0.42
45:CE:319:TYR:CD2	45:CE:328:VAL:HG22	2.54	0.42
4:0D:38:ILE:O	45:EC:279:GLU:HG3	2.19	0.42
13:0U:193:LYS:NZ	46:WB:80:PRO:HD2	2.34	0.42
1:1A:67:PRO:HG3	46:MF:53:GLU:HG3	2.00	0.42
7:1G:105:TYR:HD2	45:JA:77:GLU:OE2	2.01	0.42
8:1H:190:LYS:HZ2	45:GG:58:ALA:HB3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1J:49:ARG:HG3	46:HD:53:GLU:OE2	2.18	0.42
19:1J:121:LYS:O	45:IE:219:ILE:HD12	2.19	0.42
21:1L:52:ASP:OD2	45:BI:221:ARG:HD2	2.20	0.42
23:1O:270:ASN:OD1	45:UA:282:TYR:CZ	2.72	0.42
25:1R:454:ARG:NH2	46:FD:218:THR:HG22	2.32	0.42
14:1V:224:GLN:NE2	46:WL:281:TYR:HE2	2.17	0.42
15:1X:81:ARG:HD3	46:MF:276:ARG:HH21	1.84	0.42
5:2E:45:ARG:NE	34:5R:379:LYS:NZ	2.67	0.42
23:2O:211:ILE:HG12	40:6G:85:PRO:HG2	2.01	0.42
30:3H:196:SER:HB3	46:AH:40:SER:HB2	2.02	0.42
14:3V:141:ASN:ND2	45:LC:405:VAL:HB	2.34	0.42
33:4F:193:LYS:HZ3	45:IM:220:GLU:H	1.65	0.42
34:4R:235:LYS:HA	34:4R:235:LYS:HD3	1.82	0.42
35:4S:156:PRO:O	35:4S:160:THR:HG23	2.20	0.42
37:5G:184:GLN:HE21	37:5G:188:GLN:HG3	1.84	0.42
37:5H:110:ARG:CZ	37:5H:112:ALA:HB3	2.49	0.42
37:5H:123:ARG:HG3	45:OM:372:MET:CE	2.50	0.42
41:6H:253:SER:HB2	41:6H:255:TYR:HE1	1.84	0.42
41:6H:255:TYR:HB3	46:FF:42:LEU:HD12	2.01	0.42
41:6H:377:LYS:O	41:6H:377:LYS:HG3	2.20	0.42
34:7R:294:ASN:OD1	46:DB:217:LEU:HD11	2.20	0.42
34:7R:541:LYS:HD2	34:7R:541:LYS:N	2.30	0.42
45:AA:433:GLU:O	45:AA:437:ILE:HG23	2.19	0.42
45:AC:251:ASP:HB2	45:AC:253:THR:HG22	2.01	0.42
45:AC:345:ASP:OD2	45:AC:438:GLU:HG2	2.19	0.42
46:AD:316:LEU:HG	46:AD:352:SER:OG	2.19	0.42
45:AE:317:MET:HB3	45:AE:377:MET:HG2	2.00	0.42
46:AH:1:MET:O	46:AH:2:ARG:HG2	2.20	0.42
45:AI:113:GLU:OE1	45:AI:113:GLU:N	2.51	0.42
45:BC:186:ASN:OD1	45:BC:187:SER:N	2.53	0.42
45:BE:356:ASN:OD1	45:BE:357:TYR:N	2.52	0.42
45:BG:180:ALA:HA	46:BH:350:LYS:NZ	2.34	0.42
46:BJ:175:VAL:HG23	46:BJ:175:VAL:O	2.19	0.42
46:BJ:399:THR:HA	46:BJ:403:MET:O	2.19	0.42
45:BK:175:PRO:HB2	45:BK:176:GLN:OE1	2.19	0.42
46:BL:9:GLY:HA3	46:BL:66:MET:SD	2.59	0.42
45:BM:200:VAL:HG13	45:BM:268:MET:SD	2.59	0.42
46:BN:3:GLU:OE1	46:BN:3:GLU:N	2.43	0.42
46:BN:173:PRO:HD2	46:BN:380:ARG:CZ	2.49	0.42
46:BN:184:ASN:OD1	46:BN:185:ALA:N	2.53	0.42
46:CB:73:MET:O	46:CB:77:ARG:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:52:ASN:OD1	46:CF:62:ARG:NH2	2.52	0.42
45:CG:258:ASN:HD22	45:CG:352:LYS:HE3	1.83	0.42
46:CH:69:GLU:HA	46:CH:70:PRO:HD3	1.87	0.42
46:CH:251:ARG:HA	46:CH:251:ARG:HD3	1.83	0.42
45:CI:188:ILE:HD11	45:CI:391:LEU:HB3	2.00	0.42
46:CN:67:ASP:OD1	46:CN:68:LEU:N	2.52	0.42
45:DA:167:LEU:HG	45:DA:200:VAL:HB	2.01	0.42
46:DB:164:MET:O	46:DB:197:ASP:HB2	2.19	0.42
46:DD:304:ASP:OD1	46:DD:306:ARG:HG2	2.20	0.42
45:DE:55:GLU:O	45:EE:285:GLN:NE2	2.31	0.42
45:DG:188:ILE:HG23	45:DG:425:LEU:HD11	2.02	0.42
45:DG:312:TYR:CD1	45:DG:381:SER:HB2	2.54	0.42
46:DL:136:THR:HG22	46:DL:167:PHE:HB2	2.02	0.42
46:DL:190:HIS:CD2	46:DL:414:ASN:HD21	2.37	0.42
46:DL:391:ARG:HA	46:DL:391:ARG:HD2	1.79	0.42
45:DM:75:ILE:HD12	45:DM:75:ILE:H	1.84	0.42
45:DM:237:SER:O	45:DM:318:MET:HE2	2.20	0.42
46:ED:186:THR:HA	46:ED:189:VAL:HG22	2.02	0.42
46:ED:372:THR:HA	46:ED:422:TYR:CE2	2.55	0.42
45:EG:51:THR:HG22	45:EG:52:PHE:CD2	2.54	0.42
45:EG:210:TYR:CE1	45:EG:227:LEU:HD21	2.53	0.42
45:EM:259:LEU:HB3	45:EM:268:MET:SD	2.60	0.42
45:EM:430:LYS:HA	45:EM:433:GLU:HG3	2.02	0.42
46:FB:139:LEU:HD13	46:FB:168:SER:HB3	2.02	0.42
45:FC:289:ALA:O	45:FC:292:THR:HG22	2.19	0.42
45:FE:210:TYR:CE1	45:FE:227:LEU:HD11	2.54	0.42
45:FE:372:MET:N	45:FE:372:MET:SD	2.92	0.42
46:FH:289:LEU:HD13	46:FH:365:VAL:CG2	2.49	0.42
45:FK:407:TRP:CZ2	46:FL:258:ILE:HD11	2.50	0.42
45:GA:98:ASP:OD2	46:GB:252:LYS:HE3	2.19	0.42
45:GA:100:ALA:HB3	45:GA:105:ARG:NH2	2.34	0.42
46:GB:55:THR:HG23	46:HB:283:ALA:HA	2.00	0.42
45:GE:22:GLU:O	45:GE:26:LEU:HD23	2.20	0.42
45:GE:27:GLU:HG3	45:GE:361:THR:HG21	2.01	0.42
45:GE:74:VAL:O	45:GE:77:GLU:HG2	2.20	0.42
46:GF:97:ALA:HB3	46:GF:143:THR:HB	2.01	0.42
45:GG:102:ASN:OD1	45:GG:105:ARG:N	2.45	0.42
45:GI:164:LYS:HA	45:GI:164:LYS:HD3	1.80	0.42
45:GK:97:GLU:OE2	46:GL:251:ARG:NH2	2.52	0.42
45:GK:188:ILE:HG13	45:GK:425:LEU:HD11	2.00	0.42
46:GL:293:MET:HG3	46:GL:294:PHE:CD1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GM:56:THR:HG23	45:GM:58:ALA:H	1.83	0.42
45:GM:141:VAL:HG12	45:GM:171:ILE:O	2.20	0.42
45:HA:186:ASN:OD1	45:HA:187:SER:N	2.53	0.42
45:HA:286:LEU:HA	45:HA:290:GLU:OE2	2.19	0.42
46:HD:36:TYR:CE2	46:HD:44:LEU:HD21	2.55	0.42
46:HF:226:ASN:ND2	49:HF:501:GDP:HN1	2.11	0.42
45:HG:10:GLY:O	45:HG:14:ILE:HG12	2.20	0.42
45:IA:88:HIS:HB3	45:IA:91:GLN:HG2	2.01	0.42
45:IA:336:LYS:O	45:IA:339:ARG:NH2	2.49	0.42
46:IB:69:GLU:HA	46:IB:70:PRO:HD3	1.86	0.42
45:IE:324:VAL:HG11	45:IE:326:LYS:HZ2	1.83	0.42
45:IG:172:TYR:HD1	45:IG:173:PRO:HD2	1.84	0.42
45:IK:145:THR:HG22	47:IK:501:GTP:PG	2.58	0.42
45:IM:141:VAL:HG12	45:IM:171:ILE:O	2.20	0.42
45:IM:414:GLU:OE1	45:IM:417:GLU:N	2.53	0.42
45:JA:296:PHE:HE1	45:JA:377:MET:HG3	1.84	0.42
46:JB:167:PHE:CZ	46:JB:233:MET:HG3	2.55	0.42
46:JB:267:MET:HB2	46:JB:299:MET:HE1	2.00	0.42
45:JC:287:SER:O	45:JC:290:GLU:HG2	2.19	0.42
45:JC:330:ALA:O	45:JC:334:THR:HG23	2.19	0.42
46:JD:311:LEU:HD23	46:JD:342:VAL:HG11	2.00	0.42
45:JE:265:ILE:HD11	45:JE:435:VAL:HG21	2.02	0.42
45:JE:420:GLU:OE2	45:NE:308:ARG:HD3	2.19	0.42
46:JF:404:ASP:HB3	46:JF:407:GLU:OE1	2.19	0.42
45:JG:37:PRO:O	45:JG:39:ASP:N	2.52	0.42
46:JH:244:GLY:HA2	46:JH:355:ASP:OD1	2.19	0.42
46:JJ:164:MET:HB2	46:JJ:164:MET:HE2	1.85	0.42
45:JM:10:GLY:O	45:JM:14:ILE:HG12	2.19	0.42
45:JM:141:VAL:HG21	45:JM:172:TYR:CD1	2.55	0.42
46:KB:11:GLN:HA	46:KB:72:THR:HG21	2.02	0.42
46:KB:184:ASN:OD1	46:KB:185:ALA:N	2.53	0.42
46:KD:69:GLU:HA	46:KD:70:PRO:HD3	1.90	0.42
46:KF:66:MET:HA	46:KF:91:VAL:HG23	2.02	0.42
45:KI:326:LYS:HZ3	46:KL:220:PRO:HD2	1.83	0.42
46:KJ:330:MET:HB3	46:KJ:349:ILE:HD11	2.00	0.42
45:KM:5:ILE:HD12	45:KM:125:LEU:HD23	2.00	0.42
46:KN:86:ARG:NH1	46:KN:88:ASP:HB2	2.35	0.42
46:KN:148:GLY:O	46:KN:152:ILE:HG13	2.19	0.42
46:LB:201:VAL:HG13	46:LB:301:CYS:SG	2.60	0.42
46:LB:210:ILE:O	46:LB:214:THR:OG1	2.15	0.42
45:LC:96:LYS:NZ	46:LD:1:MET:SD	2.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LC:239:THR:HG23	45:LC:243:ARG:HH21	1.84	0.42
46:LD:117:LEU:HD12	46:LD:117:LEU:HA	1.90	0.42
45:LE:46:ASP:O	45:LE:47:ASP:HB2	2.20	0.42
45:LK:326:LYS:HZ2	46:LN:212:PHE:HB2	1.85	0.42
46:LN:101:TRP:CD1	46:LN:146:GLY:HA2	2.55	0.42
46:LN:193:VAL:HG13	46:LN:194:GLU:HG2	2.01	0.42
46:MB:118:ASP:HA	46:MB:121:ARG:HG2	2.02	0.42
46:MB:187:LEU:HD11	46:MB:408:PHE:HD2	1.85	0.42
45:MC:22:GLU:HG2	45:MC:83:TYR:OH	2.19	0.42
45:MC:230:LEU:O	45:MC:234:VAL:HG23	2.19	0.42
45:ME:205:ASP:OD1	45:ME:205:ASP:N	2.53	0.42
45:ME:332:ILE:O	45:ME:336:LYS:HG3	2.18	0.42
45:MK:428:LEU:HG	45:MK:432:TYR:CE2	2.54	0.42
45:MM:21:TRP:CZ2	45:MM:65:ALA:HB2	2.53	0.42
46:NB:253:LEU:O	46:NB:257:LEU:HB2	2.19	0.42
46:ND:21:TRP:CZ3	46:ND:61:PRO:HB3	2.55	0.42
46:ND:68:LEU:HA	46:ND:93:GLY:H	1.83	0.42
46:ND:282:ARG:HB3	46:ND:283:ALA:H	1.62	0.42
46:NF:257:LEU:O	46:NF:259:PRO:HD3	2.20	0.42
46:NF:284:LEU:HD13	46:NF:289:LEU:HD21	2.02	0.42
46:NH:19:LYS:O	46:NH:22:GLU:HB3	2.19	0.42
45:NI:256:GLN:H	45:NI:256:GLN:CD	2.22	0.42
46:NJ:215:LEU:O	46:NJ:216:LYS:HG2	2.19	0.42
45:NK:153:LEU:HD23	45:NK:153:LEU:HA	1.86	0.42
45:NM:33:ASP:OD1	45:NM:34:GLY:N	2.53	0.42
45:OA:18:ASN:O	45:OA:22:GLU:OE1	2.38	0.42
46:OB:199:CYS:HB3	46:OB:265:PHE:CD1	2.54	0.42
45:OC:356:ASN:OD1	45:OC:357:TYR:N	2.52	0.42
46:OD:49:VAL:HG12	46:OD:50:TYR:CD1	2.54	0.42
45:OE:8:HIS:HB2	45:OE:67:PHE:CD1	2.54	0.42
46:OF:306:ARG:HG3	46:OF:340:TYR:HE2	1.84	0.42
45:OG:88:HIS:CE1	45:PG:280:LYS:HE3	2.54	0.42
45:OG:269:LEU:HD23	45:OG:384:ILE:HD13	2.02	0.42
46:OL:67:ASP:O	46:OL:92:PHE:HA	2.20	0.42
46:ON:235:GLY:HA2	46:ON:238:CYS:SG	2.60	0.42
45:PA:88:HIS:CE1	45:PA:90:GLU:HG2	2.55	0.42
45:PA:171:ILE:HD13	47:PA:501:GTP:N2	2.34	0.42
45:PA:340:THR:HG23	45:PA:341:ILE:HG13	2.00	0.42
45:PA:401:LYS:HB2	45:PA:401:LYS:HE3	1.83	0.42
45:PC:208:ALA:O	45:PC:212:ILE:HG12	2.19	0.42
46:PD:163:ILE:HD11	46:PD:251:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:73:THR:OG1	46:PF:247:ASN:ND2	2.53	0.42
45:PG:11:GLN:NE2	47:PG:501:GTP:O1A	2.52	0.42
46:PH:20:PHE:O	46:PH:24:ILE:HG12	2.20	0.42
46:PH:325:GLU:O	46:PH:329:GLN:HG3	2.20	0.42
45:PK:332:ILE:HA	45:PK:335:ILE:HG22	2.01	0.42
45:QA:141:VAL:HG11	45:QA:172:TYR:HA	2.01	0.42
45:QC:184:PRO:O	45:QC:188:ILE:HD12	2.19	0.42
46:QD:105:HIS:CD2	46:QD:150:LEU:HB2	2.55	0.42
45:QE:4:VAL:HG12	45:QE:133:GLN:HB2	2.01	0.42
46:QF:183:TYR:HE2	46:QF:394:PHE:HB2	1.84	0.42
45:QG:265:ILE:HG12	45:QG:432:TYR:CE1	2.54	0.42
46:QH:7:ILE:HB	46:QH:135:ILE:CD1	2.50	0.42
46:QH:242:PHE:HB2	46:QH:354:CYS:SG	2.60	0.42
46:QH:266:PHE:CE1	46:QH:370:ASN:HB2	2.55	0.42
46:QH:312:THR:HG22	46:QH:370:ASN:HB3	2.02	0.42
45:QI:98:ASP:OD1	45:QI:99:ALA:N	2.53	0.42
45:QI:188:ILE:HG23	45:QI:425:LEU:HD11	2.01	0.42
45:QK:136:LEU:HD12	45:QK:169:PHE:CE2	2.54	0.42
46:QL:183:TYR:HE2	46:QL:394:PHE:HB2	1.85	0.42
46:QL:409:THR:O	46:QL:412:GLU:HG3	2.19	0.42
45:QM:88:HIS:NE2	45:QM:90:GLU:HG2	2.34	0.42
45:QM:121:ARG:HA	45:QM:124:LYS:HZ3	1.85	0.42
45:RA:208:ALA:O	45:RA:212:ILE:HG12	2.20	0.42
45:RA:223:THR:HG23	45:RA:225:THR:H	1.85	0.42
46:RB:5:VAL:HA	46:RB:62:ARG:HG3	2.01	0.42
45:RC:68:LEU:HD21	45:RC:118:CYS:HB2	2.02	0.42
45:RC:105:ARG:HG2	45:RC:411:GLU:HG2	2.02	0.42
45:RE:408:TYR:HB3	45:RE:413:MET:SD	2.59	0.42
46:RJ:183:TYR:HA	46:RJ:385:PHE:CE1	2.53	0.42
46:RJ:274:THR:HB	46:RJ:282:ARG:CZ	2.49	0.42
45:RK:262:TYR:OH	46:RL:391:ARG:O	2.36	0.42
46:RL:288:GLU:O	46:RL:291:GLN:HG3	2.19	0.42
46:RL:314:SER:OG	46:RL:350:LYS:HB3	2.20	0.42
45:RM:108:TYR:CE2	45:RM:413:MET:HG2	2.47	0.42
46:SD:215:LEU:HD21	46:SD:273:LEU:HD12	2.00	0.42
46:SF:190:HIS:CE1	46:SF:414:ASN:HD22	2.37	0.42
45:SG:402:ARG:O	45:SG:402:ARG:HG3	2.19	0.42
46:SH:187:LEU:HD11	46:SH:408:PHE:CD1	2.55	0.42
46:SJ:405:GLU:HA	46:SJ:408:PHE:HD2	1.84	0.42
46:TB:253:LEU:HA	46:TB:350:LYS:NZ	2.35	0.42
45:TE:60:LYS:HE2	45:UE:283:HIS:HD2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TE:345:ASP:HB2	45:TE:438:GLU:HG3	2.00	0.42
46:TF:31:ASP:OD1	46:TF:34:GLY:N	2.53	0.42
46:TF:253:LEU:HA	46:TF:350:LYS:HZ1	1.84	0.42
46:TJ:258:ILE:HB	45:TK:407:TRP:CZ2	2.54	0.42
45:TK:233:GLN:HE21	45:TK:368:LEU:HD22	1.84	0.42
46:UD:97:ALA:HB3	46:UD:143:THR:HB	2.02	0.42
46:UD:322:SER:H	45:UE:221:ARG:NH2	2.18	0.42
46:UD:387:ALA:O	46:UD:390:ARG:HG2	2.20	0.42
45:UE:203:MET:HB3	45:UE:269:LEU:HD23	2.02	0.42
45:UE:370:LYS:HB2	45:UE:370:LYS:HE3	1.78	0.42
45:UG:251:ASP:HB3	45:UG:253:THR:HG22	2.01	0.42
46:UJ:9:GLY:HA3	46:UJ:66:MET:SD	2.59	0.42
45:UK:27:GLU:HB2	45:UK:361:THR:HG21	2.01	0.42
46:UL:226:ASN:ND2	49:UL:501:GDP:HN1	2.10	0.42
46:UN:175:VAL:HG22	46:UN:205:GLU:OE2	2.19	0.42
45:VA:326:LYS:HB2	46:VD:212:PHE:CZ	2.53	0.42
46:VB:287:PRO:HA	46:VB:290:THR:HG22	2.00	0.42
45:VC:149:LEU:O	45:VC:153:LEU:HD23	2.20	0.42
46:VD:183:TYR:O	46:VD:187:LEU:HD23	2.20	0.42
46:VF:67:ASP:OD1	46:VF:68:LEU:N	2.52	0.42
46:VF:293:MET:HG2	46:VF:365:VAL:HG11	2.00	0.42
46:VF:395:LEU:O	46:VF:399:THR:HG23	2.19	0.42
45:VG:254:GLU:OE2	46:VJ:98:GLY:HA2	2.20	0.42
45:VG:324:VAL:HG11	45:VG:326:LYS:HE3	2.01	0.42
46:VH:161:ASP:OD1	46:VH:162:ARG:HG2	2.20	0.42
45:VI:224:TYR:HD1	45:VI:227:LEU:HD12	1.83	0.42
45:VK:174:SER:HB2	45:VK:177:VAL:O	2.20	0.42
45:VK:175:PRO:HA	45:VK:390:ARG:CZ	2.49	0.42
45:VK:329:ASN:HA	45:VK:332:ILE:HG12	2.01	0.42
45:VK:352:LYS:HZ2	46:VN:178:THR:HG23	1.85	0.42
46:VL:238:CYS:SG	46:VL:241:ARG:NH2	2.93	0.42
46:VL:277:GLY:O	46:VL:280:GLN:NE2	2.52	0.42
45:VM:88:HIS:ND1	45:VM:89:PRO:HD2	2.35	0.42
45:VM:105:ARG:NH1	46:VN:251:ARG:HD3	2.35	0.42
46:WF:232:ALA:HB1	46:WF:268:ILE:HD12	2.02	0.42
46:WF:386:THR:O	46:WF:390:ARG:HG2	2.20	0.42
45:WG:84:ARG:NH1	45:WG:85:GLN:OE1	2.52	0.42
45:WG:345:ASP:OD1	45:WG:346:TRP:N	2.52	0.42
45:WI:51:THR:HG23	45:WI:52:PHE:CD2	2.54	0.42
45:WK:118:CYS:SG	45:WK:153:LEU:HD11	2.60	0.42
45:DC:166:LYS:O	45:DC:167:LEU:HD23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0A:50:PRO:HA	46:MB:41:ASP:OD2	2.18	0.42
15:0X:3:ARG:HD2	46:MD:15:GLN:HE22	1.81	0.42
4:1D:224:ARG:NH1	34:4R:493:GLY:HA3	2.34	0.42
7:1G:132:ARG:NH2	45:JA:82:THR:HA	2.26	0.42
11:1S:110:VAL:HG12	46:MF:160:PRO:HD3	2.01	0.42
14:1V:46:PRO:HG3	45:LI:114:ILE:CD1	2.50	0.42
14:1V:124:LEU:HD12	46:LL:409:THR:HG21	2.02	0.42
4:2D:81:ARG:CZ	46:EJ:357:PRO:HD2	2.50	0.42
5:3E:50:ILE:HG12	34:6R:382:TYR:CD1	2.54	0.42
35:4S:184:ARG:NH2	46:AD:414:ASN:HD21	2.18	0.42
37:5F:77:LYS:O	37:5F:81:MET:HG3	2.19	0.42
37:5G:168:LEU:HB3	37:5G:170:LYS:HZ3	1.83	0.42
37:5H:61:LYS:HZ3	46:ON:276:ARG:HH21	1.67	0.42
10:5Q:72:LYS:O	10:5Q:72:LYS:HG2	2.19	0.42
10:5Q:85:LYS:O	10:5Q:107:ASN:ND2	2.52	0.42
10:5Q:179:PRO:HA	10:5Q:182:LYS:HZ3	1.85	0.42
34:5R:288:LYS:HB2	34:5R:288:LYS:HE3	1.74	0.42
41:6H:286:GLU:OE2	46:FH:227:HIS:CD2	2.73	0.42
34:7R:302:LEU:H	46:CB:77:ARG:NH2	2.16	0.42
34:7R:318:TYR:HB3	34:7R:321:MET:CG	2.50	0.42
45:AA:352:LYS:HD2	45:AA:352:LYS:HA	1.94	0.42
46:AB:31:ASP:OD2	46:AB:37:HIS:ND1	2.52	0.42
45:AC:71:GLU:HA	45:AC:72:PRO:HD3	1.89	0.42
45:AE:60:LYS:HE3	45:BE:283:HIS:ND1	2.35	0.42
45:AE:425:LEU:HD23	45:AE:425:LEU:HA	1.85	0.42
46:AF:143:THR:O	46:AF:147:MET:HB2	2.20	0.42
45:AG:328:VAL:O	45:AG:332:ILE:HG12	2.20	0.42
45:AI:98:ASP:O	45:AI:105:ARG:NH1	2.52	0.42
46:AJ:3:GLU:H	46:AJ:3:GLU:CD	2.23	0.42
46:AL:41:ASP:OD1	46:AL:42:LEU:HD12	2.20	0.42
45:AM:338:LYS:HZ2	45:AM:339:ARG:N	2.17	0.42
46:AN:342:VAL:HG22	46:AN:344:TRP:CD1	2.55	0.42
46:AN:360:GLY:O	46:AN:361:LEU:HD22	2.20	0.42
45:BA:121:ARG:HA	45:BA:124:LYS:HG2	2.02	0.42
46:BB:287:PRO:HA	46:BB:290:THR:HG22	2.01	0.42
46:BF:105:HIS:CE1	46:BF:150:LEU:HD12	2.54	0.42
46:BH:293:MET:CE	46:BH:365:VAL:HG11	2.50	0.42
45:BI:222:PRO:HG2	46:BJ:324:LYS:CE	2.45	0.42
45:BI:390:ARG:HG3	45:BI:391:LEU:HD22	2.02	0.42
46:BJ:293:MET:HG3	46:BJ:367:PHE:HB2	2.00	0.42
45:BK:22:GLU:HG3	45:BK:83:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CA:141:VAL:HG22	45:CA:187:SER:HA	2.02	0.42
45:CC:296:PHE:CE2	45:CC:335:ILE:HG21	2.54	0.42
46:CF:134:GLN:HA	46:CF:165:GLU:O	2.18	0.42
45:CG:174:SER:OG	45:CG:206:ASN:OD1	2.37	0.42
45:CG:319:TYR:HB3	45:CG:323:VAL:HG11	2.00	0.42
45:CG:408:TYR:O	45:CG:413:MET:HB2	2.20	0.42
45:CI:97:GLU:HG2	45:CI:105:ARG:HH22	1.84	0.42
45:CI:377:MET:SD	45:CI:379:SER:HB3	2.59	0.42
46:CJ:256:ASN:ND2	46:CJ:350:LYS:HD2	2.31	0.42
46:CL:317:PHE:HB2	46:CL:353:ILE:HD13	2.00	0.42
46:CL:350:LYS:HZ3	45:CM:179:THR:C	2.22	0.42
46:CN:312:THR:HG22	46:CN:370:ASN:HB3	2.01	0.42
45:DA:176:GLN:OE1	45:DA:304:LYS:NZ	2.52	0.42
46:DB:72:THR:HG23	46:DB:73:MET:SD	2.60	0.42
46:DB:133:PHE:CE2	46:DB:155:VAL:HG21	2.55	0.42
46:DD:282:ARG:HH11	46:DD:282:ARG:HG2	1.83	0.42
45:DG:109:THR:HB	45:DG:110:ILE:HD12	2.02	0.42
45:DI:223:THR:HG23	45:DI:225:THR:H	1.84	0.42
46:DJ:36:TYR:CZ	46:DJ:44:LEU:HD11	2.55	0.42
46:DJ:317:PHE:CE1	46:DJ:365:VAL:HG22	2.55	0.42
45:DM:27:GLU:OE1	45:DM:243:ARG:NH2	2.48	0.42
46:EB:342:VAL:HG22	46:EB:344:TRP:H	1.85	0.42
45:EE:268:MET:HB2	45:EE:379:SER:O	2.20	0.42
45:EE:422:ARG:O	45:EE:425:LEU:HG	2.19	0.42
45:EG:242:LEU:HD11	45:EG:252:ILE:HG12	2.02	0.42
45:EI:201:ALA:HB3	45:EI:267:PHE:CD1	2.55	0.42
45:EI:284:GLU:OE1	45:EI:286:LEU:HD22	2.20	0.42
46:EJ:91:VAL:HG21	46:EJ:116:VAL:HB	2.02	0.42
46:EJ:380:ARG:HE	46:EJ:380:ARG:HB3	1.63	0.42
46:EL:19:LYS:HA	46:EL:22:GLU:OE2	2.19	0.42
46:EL:161:ASP:OD2	46:EL:162:ARG:NH2	2.52	0.42
46:EL:174:LYS:HE2	46:EL:205:GLU:OE2	2.19	0.42
46:EL:213:ARG:HB2	46:EL:213:ARG:NH1	2.34	0.42
45:FA:407:TRP:CZ3	46:FB:255:VAL:HA	2.55	0.42
45:FC:422:ARG:CZ	45:FC:422:ARG:HB3	2.48	0.42
45:FE:196:GLU:OE1	45:FE:196:GLU:N	2.52	0.42
46:FF:268:ILE:HG22	46:FF:368:VAL:HG22	2.00	0.42
45:FG:210:TYR:HD1	46:FH:324:LYS:NZ	2.15	0.42
45:FG:216:ASN:HB3	45:FG:275:ILE:O	2.19	0.42
45:FG:296:PHE:CE1	45:FG:377:MET:HE3	2.55	0.42
45:FK:56:THR:HG23	45:FK:58:ALA:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FK:133:GLN:O	45:FK:164:LYS:HE3	2.19	0.42
45:FM:194:LEU:HB2	45:FM:198:THR:OG1	2.19	0.42
46:FN:114:ASP:OD1	46:FN:115:SER:N	2.53	0.42
46:FN:268:ILE:HG13	46:FN:300:MET:SD	2.59	0.42
46:FN:344:TRP:HB3	46:FN:430:ALA:HB2	2.02	0.42
45:GA:79:ARG:O	45:GA:84:ARG:HG2	2.20	0.42
45:GC:150:GLY:O	45:GC:154:LEU:HD23	2.19	0.42
45:GC:176:GLN:N	45:GC:176:GLN:OE1	2.52	0.42
45:GG:175:PRO:HG3	45:GG:390:ARG:HH21	1.85	0.42
45:GG:178:SER:HB2	45:GG:183:GLU:OE2	2.19	0.42
46:GH:207:LEU:HD13	46:GH:225:LEU:HD22	2.02	0.42
46:GN:148:GLY:O	46:GN:152:ILE:HG12	2.19	0.42
45:HC:346:TRP:CD1	46:HF:391:ARG:HG3	2.55	0.42
45:HI:284:GLU:N	45:HI:284:GLU:OE1	2.53	0.42
45:HI:287:SER:O	45:HI:290:GLU:HG2	2.20	0.42
46:HL:336:LYS:HD3	46:HL:336:LYS:HA	1.84	0.42
46:ID:268:ILE:HG22	46:ID:368:VAL:HG22	2.01	0.42
46:IJ:11:GLN:O	46:IJ:15:GLN:HG2	2.19	0.42
45:IK:52:PHE:CZ	45:IK:239:THR:HG21	2.54	0.42
45:IK:407:TRP:CZ3	46:IL:255:VAL:HA	2.54	0.42
46:IL:345:ILE:O	46:IL:345:ILE:HG23	2.19	0.42
45:JC:68:LEU:HD23	45:JC:93:ILE:HB	2.02	0.42
45:JC:287:SER:H	45:JC:290:GLU:CD	2.23	0.42
45:JG:28:HIS:HE1	45:JG:243:ARG:HH11	1.67	0.42
45:JG:419:SER:O	45:JG:422:ARG:N	2.53	0.42
46:JH:3:GLU:CD	46:JH:3:GLU:H	2.22	0.42
45:JI:90:GLU:CG	45:KI:280:LYS:HZ1	2.27	0.42
46:JJ:19:LYS:HG3	46:JJ:226:ASN:CB	2.49	0.42
45:JK:338:LYS:NZ	45:JK:338:LYS:HB2	2.35	0.42
45:JK:352:LYS:HD3	46:JN:178:THR:HA	2.00	0.42
45:JK:430:LYS:O	45:JK:433:GLU:HG3	2.20	0.42
46:JL:26:ASP:OD2	46:JL:359:LYS:HD2	2.19	0.42
46:JL:73:MET:CE	46:JL:92:PHE:HB3	2.50	0.42
46:JL:73:MET:HE3	46:JL:92:PHE:HB3	2.02	0.42
45:JM:224:TYR:HD1	46:JN:323:THR:HG21	1.85	0.42
46:JN:68:LEU:HD12	46:JN:97:ALA:HB2	2.00	0.42
45:KA:166:LYS:O	45:KA:199:ASP:HB2	2.19	0.42
45:KA:220:GLU:OE1	45:KA:220:GLU:N	2.51	0.42
45:KA:320:ARG:HD3	45:KA:360:PRO:HG3	2.01	0.42
45:KA:417:GLU:O	45:KA:420:GLU:HG3	2.20	0.42
45:KG:433:GLU:OE2	45:KG:433:GLU:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KI:66:VAL:HG21	45:KI:122:ILE:HD11	2.02	0.42
45:KI:222:PRO:HD2	46:KJ:324:LYS:HG3	2.00	0.42
45:KI:411:GLU:OE2	45:KI:411:GLU:N	2.53	0.42
45:KM:404:PHE:CD1	46:KN:259:PRO:HA	2.54	0.42
46:KN:257:LEU:HD23	46:KN:266:PHE:CZ	2.54	0.42
45:LA:172:TYR:OH	45:LA:191:THR:HB	2.19	0.42
45:LC:60:LYS:HE2	45:LC:60:LYS:HB3	1.86	0.42
45:LC:223:THR:HG22	45:LC:224:TYR:N	2.35	0.42
45:LC:231:ILE:O	45:LC:235:ILE:HG12	2.19	0.42
45:LC:288:VAL:HG11	45:LC:327:ASP:HB3	2.02	0.42
46:LH:156:ARG:NH2	46:LH:197:ASP:OD2	2.53	0.42
45:LI:328:VAL:O	45:LI:332:ILE:HG12	2.20	0.42
46:LJ:95:THR:HG21	46:LJ:108:GLU:HG2	2.02	0.42
46:LJ:230:SER:HA	46:LJ:233:MET:HG2	2.02	0.42
45:LK:71:GLU:HA	45:LK:72:PRO:HD3	1.89	0.42
46:LL:323:THR:OG1	46:LL:324:LYS:NZ	2.53	0.42
45:LM:269:LEU:HG	45:LM:303:ALA:HB3	2.02	0.42
46:LN:190:HIS:O	46:LN:193:VAL:HG12	2.20	0.42
46:MH:258:ILE:HG13	46:MH:258:ILE:O	2.19	0.42
45:MI:224:TYR:CE2	46:MJ:246:LEU:HD11	2.54	0.42
46:MN:178:THR:N	46:MN:181:GLU:OE2	2.53	0.42
45:NA:70:LEU:HG	45:NA:149:LEU:HD11	2.00	0.42
45:NC:222:PRO:HD2	46:ND:324:LYS:NZ	2.35	0.42
46:ND:296:ALA:HB3	46:ND:306:ARG:HH21	1.84	0.42
45:NE:253:THR:HA	45:NE:256:GLN:HE22	1.83	0.42
46:NF:22:GLU:HG2	46:NF:81:PHE:HD1	1.84	0.42
46:NF:65:LEU:HD12	46:NF:90:PHE:CE1	2.54	0.42
46:NF:70:PRO:HG3	46:NF:92:PHE:CD1	2.55	0.42
46:NF:111:GLU:N	46:NF:111:GLU:OE1	2.52	0.42
46:NH:42:LEU:HA	46:NH:45:GLU:HG3	2.02	0.42
46:NL:204:ASN:OD1	46:NL:205:GLU:N	2.52	0.42
45:NM:28:HIS:CE1	45:NM:49:PHE:HB3	2.55	0.42
45:NM:103:PHE:H	45:NM:408:TYR:HE2	1.67	0.42
46:OB:164:MET:O	46:OB:197:ASP:HB2	2.20	0.42
46:OB:334:GLN:HE22	46:OB:347:ASN:N	2.17	0.42
45:OC:352:LYS:HZ3	46:OF:179:VAL:H	1.67	0.42
46:OD:175:VAL:HG13	46:OD:205:GLU:OE2	2.19	0.42
46:OD:182:PRO:CG	46:OD:384:GLN:HG3	2.48	0.42
45:OE:420:GLU:O	45:OE:423:GLU:HG3	2.19	0.42
45:OG:317:MET:N	45:OG:317:MET:SD	2.92	0.42
46:OH:188:SER:O	46:OH:192:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OH:409:THR:O	46:OH:412:GLU:HG3	2.20	0.42
46:OJ:31:ASP:OD2	46:OJ:37:HIS:CD2	2.73	0.42
46:OJ:391:ARG:HA	46:OJ:391:ARG:HD2	1.80	0.42
45:OK:88:HIS:HB3	45:OK:91:GLN:CG	2.50	0.42
45:OK:111:GLY:O	45:OK:115:VAL:HG13	2.20	0.42
45:OK:426:ALA:O	45:OK:429:GLU:HG3	2.19	0.42
46:OL:127:CYS:SG	46:OL:130:LEU:HB2	2.60	0.42
45:OM:224:TYR:HB2	46:ON:245:GLN:HE21	1.83	0.42
45:OM:224:TYR:CD2	46:ON:323:THR:HG21	2.54	0.42
46:ON:207:LEU:HD11	46:ON:228:LEU:HD11	2.02	0.42
45:PA:152:LEU:HD13	45:PA:155:GLU:OE2	2.20	0.42
45:PA:215:ARG:HG3	45:PA:216:ASN:OD1	2.20	0.42
45:PC:51:THR:O	45:PC:64:ARG:NH2	2.52	0.42
45:PC:258:ASN:OD1	45:PC:352:LYS:HE3	2.19	0.42
46:PD:153:SER:HB3	46:PD:154:LYS:NZ	2.35	0.42
46:PD:210:ILE:O	46:PD:214:THR:HG22	2.19	0.42
45:PE:18:ASN:O	45:PE:22:GLU:HG2	2.19	0.42
46:PF:164:MET:O	46:PF:197:ASP:HB2	2.19	0.42
45:PG:114:ILE:O	45:PG:117:LEU:HG	2.20	0.42
45:PG:268:MET:SD	45:PG:268:MET:N	2.93	0.42
46:PH:10:GLY:O	46:PH:14:ASN:ND2	2.53	0.42
46:PH:131:GLN:HE22	46:PH:163:ILE:HD11	1.85	0.42
46:PH:161:ASP:OD1	46:PH:162:ARG:HG2	2.20	0.42
46:PH:313:ALA:HB1	46:PH:367:PHE:HE1	1.85	0.42
45:PI:324:VAL:HB	45:PI:327:ASP:OD2	2.20	0.42
46:PN:97:ALA:HB3	46:PN:143:THR:HB	2.02	0.42
45:QC:70:LEU:HD13	45:QC:145:THR:OG1	2.20	0.42
46:QD:327:ASP:HA	46:QD:330:MET:HE3	2.02	0.42
45:QE:191:THR:HA	45:QE:194:LEU:HG	2.02	0.42
46:QF:8:GLN:NE2	46:QF:14:ASN:HA	2.34	0.42
46:QF:47:ILE:HD13	46:QF:59:TYR:CE2	2.54	0.42
45:QG:308:ARG:HG2	45:QG:308:ARG:NH1	2.34	0.42
45:QG:329:ASN:OD1	46:QH:175:VAL:HG23	2.19	0.42
45:QI:47:ASP:HB3	45:QI:48:ALA:H	1.68	0.42
45:QI:290:GLU:N	45:QI:290:GLU:OE2	2.53	0.42
45:QI:296:PHE:HE1	45:QI:377:MET:HG3	1.85	0.42
45:QK:279:GLU:OE1	45:QK:280:LYS:HD3	2.20	0.42
46:QL:2:ARG:NH2	45:QM:72:PRO:HD3	2.34	0.42
46:RB:65:LEU:HD22	46:RB:90:PHE:CE1	2.54	0.42
45:RC:263:PRO:HD3	46:RD:396:HIS:CE1	2.54	0.42
45:RC:402:ARG:CZ	45:RC:405:VAL:HB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RD:228:LEU:HD11	46:RD:273:LEU:HD11	2.01	0.42
46:RD:322:SER:HB2	45:RE:222:PRO:O	2.20	0.42
45:RE:345:ASP:OD1	45:RE:346:TRP:N	2.53	0.42
45:RG:280:LYS:HA	45:RG:283:HIS:ND1	2.35	0.42
46:RH:252:LYS:HA	46:RH:255:VAL:HG12	2.00	0.42
46:RH:391:ARG:HA	46:RH:391:ARG:HD2	1.81	0.42
45:RI:31:GLN:HG3	45:RI:33:ASP:OD1	2.20	0.42
45:RI:209:ILE:HD12	45:RI:227:LEU:HD22	2.00	0.42
46:RL:108:GLU:O	46:RL:111:GLU:HG3	2.19	0.42
46:RL:268:ILE:HG22	46:RL:368:VAL:HG22	2.02	0.42
45:RM:14:ILE:HD11	45:RM:69:ASP:HB2	2.02	0.42
46:RN:288:GLU:O	46:RN:291:GLN:HG3	2.19	0.42
45:SA:88:HIS:HB3	45:SA:91:GLN:HG2	2.02	0.42
46:SB:65:LEU:HD22	46:SB:90:PHE:HE1	1.84	0.42
46:SB:97:ALA:HB3	46:SB:143:THR:HB	2.01	0.42
46:SB:318:ARG:HH11	46:SB:358:PRO:HG3	1.85	0.42
45:SC:226:ASN:HA	45:SC:229:ARG:HG2	2.00	0.42
46:SD:346:PRO:HD2	45:SE:398:MET:HE1	2.01	0.42
45:SE:56:THR:HG23	45:SE:58:ALA:H	1.85	0.42
46:SF:113:ILE:HA	46:SF:116:VAL:HG12	2.02	0.42
46:SF:161:ASP:O	46:SF:251:ARG:NH2	2.51	0.42
45:SI:256:GLN:NE2	45:SI:257:THR:HG23	2.34	0.42
46:SJ:414:ASN:O	46:SJ:418:LEU:HD23	2.19	0.42
45:SK:2:ARG:HD3	45:SK:2:ARG:H	1.84	0.42
45:SK:75:ILE:O	45:SK:79:ARG:HG2	2.20	0.42
45:SK:434:GLU:O	45:SK:437:ILE:HG22	2.20	0.42
46:SL:46:ARG:HH21	45:SM:73:THR:HA	1.84	0.42
46:TB:288:GLU:O	46:TB:291:GLN:HG3	2.20	0.42
46:TB:345:ILE:HG23	46:TB:345:ILE:O	2.19	0.42
45:TC:171:ILE:HD11	47:TC:501:GTP:H1'	2.01	0.42
45:TC:426:ALA:C	45:TC:430:LYS:HZ2	2.23	0.42
46:TF:136:THR:HG22	46:TF:167:PHE:HD2	1.85	0.42
45:TG:141:VAL:HG11	45:TG:172:TYR:CD1	2.55	0.42
45:TG:392:ASP:HA	45:TG:422:ARG:HH12	1.84	0.42
46:TH:180:VAL:HG22	46:TH:183:TYR:HB2	2.01	0.42
45:TI:206:ASN:OD1	47:TI:501:GTP:N2	2.47	0.42
45:TI:288:VAL:HA	45:TI:291:ILE:HG12	2.01	0.42
46:TJ:21:TRP:HA	46:TJ:24:ILE:HG12	2.02	0.42
45:TK:223:THR:HG23	45:TK:225:THR:H	1.85	0.42
45:TK:425:LEU:HA	45:TK:425:LEU:HD23	1.83	0.42
46:TL:379:LYS:HD3	46:TL:419:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TL:394:PHE:HD2	46:TL:397:TRP:CZ3	2.37	0.42
45:UC:79:ARG:NH2	45:UC:92:LEU:HB2	2.35	0.42
45:UC:174:SER:HB2	45:UC:177:VAL:HB	2.02	0.42
45:UC:217:LEU:HD12	45:UC:367:ASP:HB3	2.02	0.42
45:UC:217:LEU:HD11	45:UC:368:LEU:HD22	2.01	0.42
46:UF:31:ASP:OD1	46:UF:35:THR:N	2.36	0.42
46:UF:420:SER:O	46:UF:423:GLN:HG3	2.19	0.42
45:UG:111:GLY:O	45:UG:115:VAL:HG13	2.19	0.42
45:UG:263:PRO:HG2	45:UG:264:ARG:NH1	2.34	0.42
45:UG:347:CYS:HA	46:UH:388:MET:HE1	2.01	0.42
46:UH:322:SER:HB2	45:UI:222:PRO:O	2.19	0.42
46:UJ:32:PRO:HG3	46:UJ:81:PHE:CZ	2.55	0.42
46:UL:74:ASP:HA	46:UL:77:ARG:HG2	2.02	0.42
46:UL:286:VAL:CG2	46:UL:287:PRO:HD3	2.50	0.42
46:VB:324:LYS:HB2	46:VB:324:LYS:HZ3	1.83	0.42
45:VC:178:SER:OG	46:VD:347:ASN:HB3	2.20	0.42
45:VG:223:THR:HB	46:VH:322:SER:HB3	2.01	0.42
45:VG:433:GLU:O	45:VG:437:ILE:HG12	2.20	0.42
45:VI:199:ASP:OD1	45:VI:200:VAL:HG23	2.20	0.42
46:VJ:22:GLU:OE2	46:VJ:80:PRO:HB2	2.20	0.42
45:VK:88:HIS:CD2	45:WK:280:LYS:HE2	2.55	0.42
46:VN:384:GLN:O	46:VN:388:MET:HG2	2.20	0.42
45:WA:48:ALA:O	45:WA:51:THR:HG22	2.20	0.42
45:WA:263:PRO:HD3	46:WD:396:HIS:CE1	2.54	0.42
45:WC:289:ALA:O	45:WC:292:THR:HG22	2.20	0.42
45:WC:326:LYS:HZ2	46:WF:219:THR:HA	1.85	0.42
46:WF:222:TYR:O	46:WF:226:ASN:ND2	2.25	0.42
45:WG:214:ARG:HD2	45:WG:215:ARG:N	2.34	0.42
45:WK:262:TYR:OH	46:WN:391:ARG:O	2.30	0.42
45:WM:3:GLU:OE2	45:WM:129:CYS:HB3	2.19	0.42
46:WN:282:ARG:HH21	46:WN:284:LEU:HA	1.84	0.42
45:CE:10:GLY:O	45:CE:14:ILE:HG12	2.20	0.42
45:CE:90:GLU:OE2	45:CE:121:ARG:NH2	2.53	0.42
2:0B:46:PHE:CZ	46:JH:73:MET:HB3	2.55	0.42
4:1D:177:THR:HG21	46:EF:47:ILE:H	1.85	0.42
21:1L:217:ASN:ND2	46:BJ:56:GLY:HA2	2.35	0.42
13:1U:193:LYS:HB2	46:WF:80:PRO:HD3	2.02	0.42
4:2D:15:THR:O	46:CJ:46:ARG:NH2	2.51	0.42
29:2G:37:LYS:HZ1	46:JJ:77:ARG:HD2	1.85	0.42
22:2M:285:LYS:NZ	46:IJ:41:ASP:OD2	2.33	0.42
12:2T:125:GLY:O	45:AG:337:THR:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:3C:8:LEU:HD23	34:7R:4:ASN:HD22	1.85	0.42
31:3I:267:THR:O	46:GJ:297:LYS:NZ	2.25	0.42
36:5C:29:GLN:C	36:5C:30:LYS:HD3	2.39	0.42
40:6G:150:GLU:HB3	46:VH:336:LYS:HD3	2.02	0.42
40:6G:156:LYS:HA	40:6G:156:LYS:HD3	1.87	0.42
34:6R:26:HIS:HB3	45:LK:46:ASP:OD1	2.19	0.42
34:6R:311:LYS:HE3	34:6R:311:LYS:HB2	1.66	0.42
45:AA:420:GLU:HA	45:AA:423:GLU:OE2	2.19	0.42
45:AG:90:GLU:CD	45:AG:121:ARG:HH22	2.22	0.42
45:AG:212:ILE:HD11	45:AG:300:ASN:HA	2.02	0.42
45:AG:434:GLU:O	45:AG:437:ILE:HG12	2.20	0.42
46:AH:376:GLU:HA	46:AH:379:LYS:HE3	2.02	0.42
45:AI:237:SER:HA	45:AI:320:ARG:HH11	1.84	0.42
46:AN:100:ASN:HB3	46:AN:103:LYS:HB2	2.02	0.42
45:BA:406:HIS:NE2	46:BB:261:PRO:HD3	2.35	0.42
45:BC:2:ARG:O	45:BC:51:THR:HA	2.20	0.42
45:BC:192:HIS:HD2	45:BC:421:ALA:HA	1.85	0.42
46:BF:289:LEU:HD11	46:BF:363:MET:HB3	2.00	0.42
45:BG:188:ILE:HG12	45:BG:421:ALA:HB1	2.02	0.42
45:BI:340:THR:HG23	45:BI:341:ILE:HG13	2.01	0.42
45:BK:180:ALA:HA	46:BL:350:LYS:NZ	2.35	0.42
45:BK:336:LYS:HD3	45:BK:336:LYS:HA	1.77	0.42
45:BK:393:HIS:HA	45:BK:396:ASP:OD2	2.19	0.42
46:BL:226:ASN:ND2	49:BL:501:GDP:HN1	2.05	0.42
46:BN:109:GLY:O	46:BN:113:ILE:HG23	2.19	0.42
46:BN:287:PRO:HG3	46:BN:329:GLN:NE2	2.34	0.42
46:CB:8:GLN:HE21	46:CB:65:LEU:HA	1.83	0.42
46:CB:201:VAL:HG23	46:CB:301:CYS:SG	2.60	0.42
46:CB:396:HIS:HA	46:CB:399:THR:OG1	2.20	0.42
46:CF:19:LYS:HD3	46:CF:226:ASN:HB2	2.01	0.42
46:CF:167:PHE:CZ	46:CF:200:MET:HG3	2.55	0.42
46:CF:346:PRO:HD2	45:CG:398:MET:HE3	2.01	0.42
45:CG:152:LEU:O	45:CG:155:GLU:HG2	2.20	0.42
45:CG:251:ASP:HB3	45:CG:254:GLU:OE1	2.20	0.42
46:CL:145:SER:HB2	46:CL:188:SER:OG	2.19	0.42
46:CL:391:ARG:HD2	46:CL:391:ARG:HA	1.78	0.42
45:CM:48:ALA:O	45:CM:51:THR:HG22	2.19	0.42
45:CM:185:TYR:O	45:CM:188:ILE:HG22	2.19	0.42
45:CM:433:GLU:O	45:CM:437:ILE:HG23	2.20	0.42
45:DA:102:ASN:HB3	45:DA:105:ARG:HB2	2.02	0.42
46:DD:254:ALA:O	46:DD:258:ILE:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DE:188:ILE:HG23	45:DE:425:LEU:HD11	2.02	0.42
46:DH:113:ILE:HD11	46:DH:151:LEU:HB2	2.01	0.42
46:DJ:116:VAL:HA	46:DJ:119:VAL:HG12	2.02	0.42
45:DK:75:ILE:HG23	45:DK:92:LEU:HD23	2.01	0.42
45:DK:141:VAL:HG11	45:DK:172:TYR:CD1	2.52	0.42
45:DK:152:LEU:O	45:DK:155:GLU:HG3	2.20	0.42
46:DL:146:GLY:O	46:DL:149:THR:HG22	2.19	0.42
45:DM:107:HIS:ND1	45:DM:107:HIS:O	2.53	0.42
46:ED:267:MET:HE2	46:ED:301:CYS:HB2	2.01	0.42
46:ED:345:ILE:HG23	46:ED:345:ILE:O	2.20	0.42
46:EH:12:CYS:O	46:EH:16:ILE:HG12	2.20	0.42
45:EI:287:SER:O	45:EI:290:GLU:HG2	2.20	0.42
46:EL:69:GLU:HA	46:EL:70:PRO:HD3	1.89	0.42
45:EM:56:THR:HG23	45:EM:58:ALA:H	1.83	0.42
46:EN:73:MET:HE1	46:EN:92:PHE:HB3	2.01	0.42
46:EN:288:GLU:O	46:EN:291:GLN:HG3	2.19	0.42
45:FA:133:GLN:HB3	45:FA:252:ILE:HD11	2.02	0.42
45:FA:224:TYR:CE2	46:FB:323:THR:HG21	2.54	0.42
46:FB:267:MET:HB2	46:FB:299:MET:SD	2.59	0.42
45:FC:68:LEU:HD13	45:FC:93:ILE:HB	2.02	0.42
45:FC:291:ILE:HG13	45:FC:292:THR:N	2.34	0.42
46:FD:270:PHE:HD2	46:FD:273:LEU:HD21	1.84	0.42
45:FE:97:GLU:HA	45:FE:97:GLU:OE2	2.20	0.42
45:FE:340:THR:HG23	45:FE:341:ILE:HG13	2.01	0.42
45:FI:63:PRO:HG2	45:FI:87:PHE:CD2	2.54	0.42
46:FJ:77:ARG:HE	46:FJ:77:ARG:HB3	1.71	0.42
45:FK:195:LEU:CD2	45:FK:428:LEU:HD21	2.50	0.42
46:FL:416:ASN:OD1	46:FL:417:ASP:N	2.53	0.42
46:FN:318:ARG:HH11	46:FN:358:PRO:HG3	1.84	0.42
46:FN:378:PHE:HA	46:FN:381:VAL:HG22	2.01	0.42
46:GD:164:MET:SD	46:GD:196:ALA:HA	2.60	0.42
45:GG:171:ILE:O	45:GG:171:ILE:HG23	2.20	0.42
45:GG:221:ARG:HH21	46:GH:320:ARG:HH22	1.68	0.42
46:GJ:135:ILE:HG13	46:GJ:152:ILE:HD11	2.02	0.42
46:GJ:218:THR:OG1	46:GJ:219:THR:HG23	2.20	0.42
46:GL:97:ALA:HB3	46:GL:143:THR:HB	2.02	0.42
45:GM:19:ALA:HA	45:GM:22:GLU:OE1	2.19	0.42
45:HA:100:ALA:HB1	46:HB:252:LYS:HA	2.01	0.42
46:HB:237:THR:HG23	46:HB:241:ARG:HH12	1.85	0.42
45:HC:53:PHE:CE2	45:HC:63:PRO:HG3	2.55	0.42
46:HD:378:PHE:HA	46:HD:381:VAL:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HE:415:GLU:HG2	45:HE:416:GLY:N	2.34	0.42
46:HF:136:THR:HG22	46:HF:167:PHE:CD1	2.55	0.42
46:HF:347:ASN:C	46:HF:347:ASN:HD22	2.23	0.42
45:HI:336:LYS:HD3	45:HI:336:LYS:HA	1.88	0.42
45:HI:361:THR:OG1	45:HI:362:VAL:N	2.52	0.42
46:HL:325:GLU:HA	46:HL:328:GLU:HG3	2.01	0.42
46:HN:201:VAL:HG23	46:HN:301:CYS:SG	2.60	0.42
46:IB:19:LYS:O	46:IB:23:VAL:HG23	2.20	0.42
46:IB:227:HIS:HD1	46:IB:227:HIS:C	2.23	0.42
45:IE:175:PRO:HG3	45:IE:390:ARG:NH1	2.34	0.42
45:IE:224:TYR:HE1	47:IE:501:GTP:C5	2.38	0.42
45:IG:222:PRO:HD2	46:IH:324:LYS:HD3	2.02	0.42
46:IJ:9:GLY:HA2	46:IJ:66:MET:O	2.20	0.42
45:IK:148:GLY:O	45:IK:151:SER:OG	2.34	0.42
45:IM:205:ASP:OD1	45:IM:205:ASP:N	2.53	0.42
46:IN:69:GLU:HA	46:IN:70:PRO:HD3	1.87	0.42
46:IN:201:VAL:HG21	46:IN:374:ILE:HD11	2.01	0.42
45:JC:313:MET:HG2	45:JC:346:TRP:CH2	2.55	0.42
46:JD:68:LEU:HB3	46:JD:96:GLY:HA2	2.01	0.42
46:JD:136:THR:HG22	46:JD:167:PHE:HD2	1.85	0.42
45:JG:10:GLY:O	45:JG:14:ILE:HG12	2.19	0.42
46:JH:21:TRP:CZ3	46:JH:61:PRO:HB3	2.55	0.42
46:JH:183:TYR:O	46:JH:187:LEU:HD13	2.20	0.42
46:JH:257:LEU:O	46:JH:259:PRO:HD3	2.20	0.42
45:JI:195:LEU:HD21	45:JI:264:ARG:HH21	1.85	0.42
46:JJ:177:ASP:OD2	46:JJ:178:THR:N	2.53	0.42
46:JJ:310:TYR:CD2	46:JJ:371:SER:HB2	2.55	0.42
45:JK:38:SER:OG	45:JK:39:ASP:N	2.50	0.42
45:JK:174:SER:HB2	45:JK:177:VAL:O	2.20	0.42
46:JL:149:THR:HA	46:JL:152:ILE:HD12	2.01	0.42
45:JM:122:ILE:HG23	45:JM:123:ARG:NH1	2.35	0.42
46:JN:294:PHE:HE2	46:JN:367:PHE:CE1	2.38	0.42
46:KB:23:VAL:O	46:KB:27:GLU:OE1	2.38	0.42
46:KB:233:MET:O	46:KB:236:VAL:HG12	2.20	0.42
45:KC:245:ASP:N	45:KC:245:ASP:OD1	2.52	0.42
45:KC:330:ALA:O	45:KC:334:THR:HG23	2.20	0.42
46:KF:139:LEU:HD13	46:KF:168:SER:HB3	2.02	0.42
45:KI:279:GLU:OE2	45:KI:280:LYS:HG2	2.20	0.42
45:KK:350:GLY:HA2	46:KN:179:VAL:HG12	2.01	0.42
45:KM:52:PHE:CZ	45:KM:239:THR:HG21	2.55	0.42
46:KN:21:TRP:HA	46:KN:24:ILE:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LB:65:LEU:HD22	46:LB:90:PHE:HE1	1.85	0.42
46:LB:391:ARG:HA	46:LB:391:ARG:HD2	1.84	0.42
45:LE:178:SER:HB3	45:LE:183:GLU:OE1	2.20	0.42
45:LE:414:GLU:O	45:LE:417:GLU:HG2	2.20	0.42
46:LF:404:ASP:N	46:LF:404:ASP:OD1	2.53	0.42
45:LG:21:TRP:CZ2	45:LG:65:ALA:HB2	2.55	0.42
46:LH:265:PHE:HB3	46:LH:374:ILE:HD13	2.01	0.42
46:LH:286:VAL:N	46:LH:287:PRO:HD2	2.34	0.42
45:LI:71:GLU:HA	45:LI:72:PRO:HD3	1.83	0.42
45:LK:26:LEU:HD11	45:LK:364:PRO:HD2	2.01	0.42
45:LK:183:GLU:N	45:LK:184:PRO:HD2	2.35	0.42
46:LL:375:GLN:HG3	46:LL:379:LYS:NZ	2.35	0.42
46:MB:1:MET:HG3	46:MB:2:ARG:N	2.35	0.42
45:MC:384:ILE:O	45:MC:387:VAL:HG22	2.20	0.42
45:ME:401:LYS:HE2	46:MF:344:TRP:CG	2.54	0.42
45:MG:331:SER:O	45:MG:335:ILE:HG12	2.20	0.42
46:MJ:1:MET:O	46:MJ:2:ARG:HG2	2.20	0.42
45:MK:194:LEU:O	45:MK:198:THR:HG22	2.19	0.42
45:MK:384:ILE:O	45:MK:387:VAL:HG22	2.20	0.42
45:MM:68:LEU:HD11	45:MM:118:CYS:SG	2.60	0.42
45:MM:70:LEU:HD13	45:MM:145:THR:OG1	2.20	0.42
46:MN:221:THR:O	46:MN:225:LEU:HG	2.20	0.42
46:NB:165:GLU:HG2	46:NB:198:GLU:HB2	2.02	0.42
45:NE:107:HIS:ND1	45:NE:107:HIS:O	2.52	0.42
45:NE:174:SER:HB2	45:NE:177:VAL:O	2.19	0.42
45:NE:306:ASP:HB3	45:NE:309:HIS:ND1	2.35	0.42
46:NF:238:CYS:SG	46:NF:318:ARG:NE	2.92	0.42
46:NF:289:LEU:HD11	46:NF:363:MET:HG3	2.01	0.42
45:NG:338:LYS:HD2	45:NG:339:ARG:H	1.84	0.42
45:NK:164:LYS:HD3	45:NK:164:LYS:HA	1.83	0.42
45:NM:112:LYS:HA	45:NM:115:VAL:HG12	2.02	0.42
45:NM:320:ARG:CG	45:NM:374:ALA:HB3	2.50	0.42
46:NN:100:ASN:HB3	46:NN:103:LYS:CG	2.50	0.42
45:OA:348:PRO:HG2	46:OD:384:GLN:NE2	2.33	0.42
45:OC:8:HIS:CD2	45:OC:138:PHE:HD2	2.36	0.42
45:OC:52:PHE:HA	45:OC:64:ARG:HD2	2.01	0.42
45:OC:205:ASP:OD1	45:OC:303:ALA:HA	2.20	0.42
46:OD:31:ASP:OD2	46:OD:35:THR:OG1	2.37	0.42
46:OD:321:MET:HB2	46:OD:325:GLU:OE2	2.20	0.42
45:OE:143:GLY:HA3	47:OF:501:GTP:O2B	2.20	0.42
45:OE:285:GLN:HB3	45:OE:290:GLU:OE2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OF:54:ALA:HA	46:PF:283:ALA:HB2	2.02	0.42
45:OG:255:PHE:O	45:OG:259:LEU:HG	2.20	0.42
45:OG:328:VAL:O	45:OG:332:ILE:HG12	2.20	0.42
45:OG:330:ALA:O	45:OG:334:THR:HG23	2.20	0.42
46:OJ:9:GLY:HA2	46:OJ:66:MET:O	2.20	0.42
46:OJ:108:GLU:HA	46:OJ:111:GLU:OE1	2.20	0.42
45:OK:223:THR:HG23	45:OK:225:THR:H	1.85	0.42
45:OK:395:PHE:HZ	45:OK:418:PHE:HB3	1.85	0.42
46:OL:178:THR:HG22	46:OL:179:VAL:N	2.35	0.42
46:OL:179:VAL:HG13	46:OL:180:VAL:HG23	2.02	0.42
45:OM:275:ILE:N	45:OM:276:ILE:HD12	2.35	0.42
46:ON:130:LEU:HD21	46:ON:133:PHE:CE2	2.55	0.42
46:ON:186:THR:HA	46:ON:189:VAL:HG12	2.01	0.42
45:PA:419:SER:O	45:PA:422:ARG:HB3	2.19	0.42
46:PB:313:ALA:HB1	46:PB:367:PHE:CE1	2.55	0.42
45:PC:372:MET:SD	45:PC:373:ARG:HG3	2.59	0.42
46:PF:203:ASP:HB3	46:PF:205:GLU:CD	2.40	0.42
45:PG:177:VAL:HG13	46:PH:327:ASP:OD2	2.20	0.42
45:PG:196:GLU:HG2	45:PG:197:HIS:CE1	2.55	0.42
45:PI:387:VAL:O	45:PI:390:ARG:HG3	2.20	0.42
45:PK:186:ASN:OD1	45:PK:187:SER:N	2.52	0.42
45:PK:196:GLU:OE1	45:PK:196:GLU:N	2.53	0.42
45:PM:71:GLU:HG3	45:PM:73:THR:HG22	2.01	0.42
46:PN:65:LEU:HD22	46:PN:90:PHE:CE1	2.54	0.42
46:QD:310:TYR:HD2	46:QD:371:SER:HB2	1.84	0.42
45:QG:15:GLN:HE22	45:QG:228:ASN:CG	2.22	0.42
45:QG:220:GLU:O	45:QG:221:ARG:HD3	2.20	0.42
46:QH:8:GLN:NE2	46:QH:17:GLY:HA3	2.35	0.42
46:QH:392:LYS:HG3	46:QH:395:LEU:HD22	2.02	0.42
45:QI:254:GLU:OE2	46:QJ:98:GLY:HA2	2.19	0.42
46:QJ:317:PHE:CD1	46:QJ:365:VAL:HG22	2.55	0.42
45:QK:31:GLN:NE2	45:QK:35:GLN:HB2	2.34	0.42
45:QK:149:LEU:O	45:QK:153:LEU:HD23	2.20	0.42
45:QK:408:TYR:O	45:QK:413:MET:HB2	2.19	0.42
45:RA:252:ILE:HA	45:RA:255:PHE:CE2	2.55	0.42
45:RC:136:LEU:HD12	45:RC:137:VAL:H	1.85	0.42
45:RC:291:ILE:HG12	45:RC:375:VAL:HG22	2.02	0.42
46:RD:310:TYR:HB2	46:RD:341:PHE:HD2	1.85	0.42
46:RF:412:GLU:HA	46:RF:415:MET:HG2	2.02	0.42
45:RG:363:VAL:HG13	45:RG:366:GLY:HA3	2.02	0.42
45:RI:377:MET:SD	45:RI:379:SER:HB2	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:167:PHE:CZ	46:RJ:233:MET:HG2	2.55	0.42
46:RJ:178:THR:N	46:RJ:181:GLU:OE2	2.52	0.42
45:RK:12:GLY:HA2	45:RK:15:GLN:NE2	2.34	0.42
45:RK:15:GLN:HA	45:RK:18:ASN:OD1	2.20	0.42
45:RK:36:MET:HG2	45:RK:61:HIS:CE1	2.55	0.42
46:RL:226:ASN:HA	46:RL:229:VAL:HG22	2.01	0.42
46:RL:287:PRO:HD3	46:RL:325:GLU:OE1	2.20	0.42
46:RN:86:ARG:HE	46:RN:87:PRO:HD2	1.84	0.42
46:SB:58:ARG:HH11	46:TB:281:TYR:HE2	1.67	0.42
46:SB:391:ARG:HA	46:SB:391:ARG:HD2	1.79	0.42
45:SC:72:PRO:O	45:SC:75:ILE:HG22	2.19	0.42
46:SD:51:TYR:HB3	46:SD:59:TYR:HB3	2.01	0.42
46:SD:412:GLU:HA	46:SD:415:MET:HG3	2.02	0.42
45:SE:259:LEU:HB3	45:SE:268:MET:CE	2.50	0.42
45:SG:256:GLN:OE1	46:SH:397:TRP:HZ2	2.02	0.42
45:SI:2:ARG:HD3	45:SI:2:ARG:H	1.85	0.42
45:SI:174:SER:HB2	45:SI:177:VAL:O	2.20	0.42
45:SI:206:ASN:O	45:SI:210:TYR:HD1	2.03	0.42
46:SN:87:PRO:HA	46:SN:90:PHE:HD2	1.83	0.42
46:SN:178:THR:HG22	46:SN:180:VAL:H	1.85	0.42
45:TA:19:ALA:HA	45:TA:22:GLU:OE1	2.19	0.42
45:TA:331:SER:O	45:TA:335:ILE:HG12	2.19	0.42
46:TB:21:TRP:CZ2	46:TB:63:ALA:HB2	2.55	0.42
45:TC:240:ALA:HA	45:TC:243:ARG:HH12	1.83	0.42
45:TE:176:GLN:OE1	45:TE:176:GLN:N	2.48	0.42
45:TE:219:ILE:HD12	45:TE:222:PRO:HB3	2.00	0.42
46:TF:203:ASP:O	46:TF:207:LEU:HG	2.19	0.42
46:TF:361:LEU:HD11	46:TF:364:ALA:HB2	2.02	0.42
45:TG:208:ALA:O	45:TG:212:ILE:HG12	2.20	0.42
46:TH:121:ARG:O	46:TH:125:GLU:OE1	2.38	0.42
46:TH:202:ILE:HD11	46:TH:207:LEU:HD21	2.02	0.42
46:TH:213:ARG:O	46:TH:216:LYS:HE3	2.19	0.42
46:TH:304:ASP:OD1	46:TH:306:ARG:HG2	2.20	0.42
46:TJ:251:ARG:O	46:TJ:255:VAL:HG23	2.19	0.42
45:TK:47:ASP:N	45:TK:47:ASP:OD2	2.51	0.42
45:TK:372:MET:SD	45:TK:372:MET:N	2.93	0.42
45:TK:377:MET:HE2	45:TK:379:SER:HB3	2.01	0.42
46:UB:375:GLN:NE2	46:UB:422:TYR:HB3	2.35	0.42
45:UC:10:GLY:O	45:UC:13:GLY:N	2.53	0.42
46:UD:356:ILE:HD12	46:UD:357:PRO:HD2	2.01	0.42
46:UF:143:THR:HG1	49:UF:501:GDP:PB	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UH:86:ARG:NH2	46:VH:280:GLN:HE22	2.18	0.42
45:UI:268:MET:HG3	45:UI:380:ASN:HB2	2.02	0.42
46:UL:225:LEU:O	46:UL:228:LEU:HG	2.20	0.42
46:UL:301:CYS:SG	46:UL:302:ALA:N	2.93	0.42
45:VA:179:THR:C	46:VB:350:LYS:HZ3	2.23	0.42
45:VA:332:ILE:HD12	45:VA:351:PHE:CD2	2.55	0.42
45:VC:336:LYS:HE3	45:VC:351:PHE:HE2	1.85	0.42
46:VH:380:ARG:O	46:VH:383:GLU:HG3	2.18	0.42
45:VI:245:ASP:N	45:VI:245:ASP:OD1	2.51	0.42
46:VJ:362:LYS:HE3	46:VJ:362:LYS:HB3	1.89	0.42
45:VK:209:ILE:HG23	45:VK:227:LEU:HD22	2.01	0.42
45:VK:422:ARG:HH12	45:VK:426:ALA:HB2	1.84	0.42
45:VM:313:MET:HG3	45:VM:381:SER:HA	2.00	0.42
46:VN:193:VAL:HG23	46:VN:265:PHE:HZ	1.85	0.42
46:VN:199:CYS:O	46:VN:265:PHE:HA	2.19	0.42
45:WE:48:ALA:O	45:WE:51:THR:HG22	2.20	0.42
46:WF:6:HIS:O	46:WF:63:ALA:HA	2.20	0.42
46:WF:391:ARG:HA	46:WF:391:ARG:HD2	1.74	0.42
45:WG:265:ILE:HG22	45:WG:380:ASN:HD21	1.85	0.42
45:WG:404:PHE:CD2	46:WH:259:PRO:HA	2.55	0.42
46:WH:421:GLU:HA	46:WH:424:GLN:HG2	2.02	0.42
45:WI:48:ALA:O	45:WI:51:THR:HG22	2.20	0.42
45:WI:101:ASN:HD22	46:WJ:256:ASN:HD21	1.66	0.42
46:WJ:72:THR:HG23	46:WJ:73:MET:SD	2.60	0.42
45:WK:183:GLU:N	45:WK:184:PRO:HD2	2.34	0.42
45:WK:420:GLU:HA	45:WK:423:GLU:HG2	2.02	0.42
45:WK:430:LYS:HA	45:WK:433:GLU:OE2	2.20	0.42
45:DC:188:ILE:HA	45:DC:191:THR:HG22	2.00	0.42
45:DC:239:THR:HG23	45:DC:243:ARG:HH21	1.84	0.42
2:0B:46:PHE:HZ	46:JH:73:MET:HB3	1.85	0.42
1:1A:39:TYR:CE2	45:ME:78:VAL:HA	2.55	0.42
4:2D:217:ALA:HA	34:5R:431:ILE:HD11	2.02	0.42
21:2L:525:LEU:CD1	46:BN:320:ARG:H	2.32	0.42
23:2O:352:ARG:HH22	46:VF:276:ARG:NH1	2.16	0.42
1:3A:101:ASN:OD1	34:6R:58:ARG:HA	2.20	0.42
1:3A:104:ARG:HB3	34:6R:59:MET:H	1.84	0.42
30:3H:218:HIS:C	45:MG:84:ARG:HH22	2.22	0.42
31:3I:202:GLY:O	45:GK:340:THR:HG21	2.19	0.42
25:3R:9:PRO:HA	46:MN:227:HIS:CD2	2.53	0.42
25:3R:232:LEU:HD11	46:BN:92:PHE:HZ	1.84	0.42
37:5E:87:LEU:HD22	37:5E:92:GLN:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5E:209:ARG:HH22	45:LC:264:ARG:NH1	2.18	0.42
37:5F:97:ARG:HH22	46:KF:262:ARG:HD3	1.83	0.42
37:5H:38:VAL:HG13	37:5H:39:ASP:N	2.35	0.42
37:5H:101:ASP:HB3	37:5H:103:ARG:NH1	2.35	0.42
37:5H:144:LEU:HA	37:5H:147:GLN:HG2	2.02	0.42
34:5R:361:LEU:HD21	34:5R:367:GLN:HG2	2.02	0.42
41:6H:247:LYS:O	41:6H:248:LEU:HB2	2.20	0.42
10:6Q:48:GLU:HB3	10:6Q:161:ARG:HG2	2.02	0.42
34:6R:538:PHE:HB2	34:6R:578:TYR:CZ	2.55	0.42
34:7R:145:ILE:HA	46:AD:78:ALA:O	2.19	0.42
34:7R:231:TYR:CZ	34:7R:235:LYS:HD3	2.54	0.42
34:7R:300:PHE:HB3	46:CB:77:ARG:CZ	2.50	0.42
46:AB:58:ARG:NH1	46:BB:280:GLN:O	2.51	0.42
46:AD:1:MET:HG2	46:AD:2:ARG:H	1.85	0.42
45:AE:107:HIS:O	45:AE:107:HIS:ND1	2.53	0.42
45:AG:174:SER:HB2	45:AG:177:VAL:O	2.20	0.42
45:AG:384:ILE:O	45:AG:387:VAL:HG22	2.19	0.42
45:AI:88:HIS:O	45:AI:91:GLN:HG2	2.20	0.42
45:AK:88:HIS:HB3	45:AK:91:GLN:HG2	2.02	0.42
45:AK:223:THR:HA	46:AL:323:THR:HG22	2.01	0.42
45:AM:221:ARG:NE	46:AN:322:SER:HB3	2.34	0.42
45:AM:231:ILE:O	45:AM:235:ILE:HG12	2.20	0.42
45:AM:434:GLU:O	45:AM:437:ILE:HG12	2.19	0.42
46:AN:60:VAL:HG11	46:BN:281:TYR:OH	2.19	0.42
46:AN:105:HIS:CE1	46:AN:150:LEU:HD12	2.54	0.42
46:AN:139:LEU:HD13	46:AN:170:VAL:HG12	2.02	0.42
45:BA:68:LEU:HD21	45:BA:118:CYS:SG	2.60	0.42
45:BA:425:LEU:O	45:BA:429:GLU:HG2	2.19	0.42
46:BB:65:LEU:HD22	46:BB:90:PHE:HE1	1.85	0.42
45:BC:387:VAL:O	45:BC:391:LEU:HG	2.20	0.42
46:BF:226:ASN:ND2	49:BF:501:GDP:HN1	2.09	0.42
46:BH:97:ALA:HB3	46:BH:143:THR:HB	2.01	0.42
46:BH:178:THR:HG22	46:BH:179:VAL:H	1.84	0.42
46:BL:322:SER:O	46:BL:325:GLU:HG2	2.19	0.42
45:CA:69:ASP:O	45:CA:94:SER:HA	2.20	0.42
45:CA:147:SER:HB2	45:CA:190:SER:HB3	2.01	0.42
46:CB:19:LYS:HE2	46:CB:19:LYS:HB3	1.81	0.42
46:CB:97:ALA:HB3	46:CB:143:THR:HB	2.00	0.42
45:CC:71:GLU:OE1	45:CC:73:THR:OG1	2.18	0.42
45:CC:187:SER:O	45:CC:191:THR:HG23	2.18	0.42
46:CD:87:PRO:HA	46:CD:90:PHE:HD2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CD:105:HIS:CD2	46:CD:150:LEU:HB2	2.55	0.42
46:CD:268:ILE:HG22	46:CD:368:VAL:HG22	2.01	0.42
46:CF:66:MET:HE3	46:CF:116:VAL:HG21	2.01	0.42
46:CF:105:HIS:CE1	46:CF:150:LEU:HD12	2.55	0.42
45:CG:215:ARG:NH1	45:CG:215:ARG:HB2	2.35	0.42
45:CI:111:GLY:O	45:CI:115:VAL:HG13	2.18	0.42
46:CJ:86:ARG:NH1	46:DJ:281:TYR:CD2	2.88	0.42
45:CM:203:MET:HE1	45:CM:267:PHE:HD1	1.83	0.42
45:CM:312:TYR:HB2	45:CM:342:GLN:O	2.19	0.42
46:CN:61:PRO:HD2	46:CN:84:LEU:O	2.20	0.42
46:CN:260:PHE:HB2	46:CN:263:LEU:HD13	2.01	0.42
46:DB:2:ARG:HB3	45:DC:96:LYS:HE2	2.02	0.42
46:DB:208:TYR:CE2	46:DB:225:LEU:HD11	2.55	0.42
46:DB:276:ARG:NH1	46:DB:276:ARG:O	2.52	0.42
45:DE:123:ARG:NH1	45:DE:123:ARG:HA	2.34	0.42
45:DG:104:ALA:HB3	45:DG:411:GLU:OE2	2.20	0.42
45:DG:121:ARG:HH22	45:DG:124:LYS:HE2	1.85	0.42
45:DI:191:THR:HA	45:DI:194:LEU:HG	2.02	0.42
45:DI:276:ILE:HD12	45:DI:276:ILE:HA	1.89	0.42
46:DJ:259:PRO:HA	45:DK:404:PHE:CD1	2.55	0.42
46:DJ:331:LEU:HD11	45:DK:176:GLN:HB3	2.01	0.42
45:DK:271:SER:HA	45:DK:302:MET:HG2	2.00	0.42
46:DL:255:VAL:HG12	45:DM:407:TRP:CZ3	2.55	0.42
45:DM:186:ASN:OD1	45:DM:187:SER:N	2.53	0.42
46:DN:47:ILE:HG12	46:DN:51:TYR:HB2	2.01	0.42
46:EB:64:ILE:HA	46:EB:89:ASN:HB3	2.02	0.42
46:ED:156:ARG:NH1	46:ED:159:TYR:O	2.52	0.42
46:ED:324:LYS:HE3	45:EE:222:PRO:HG3	2.01	0.42
45:EE:251:ASP:HB2	45:EE:253:THR:HG22	2.01	0.42
46:EF:86:ARG:HD2	46:FF:281:TYR:HD1	1.85	0.42
46:EF:140:GLY:HA2	46:EF:171:PRO:HG3	2.01	0.42
45:EG:280:LYS:HA	45:EG:283:HIS:CD2	2.55	0.42
45:EI:171:ILE:HG23	45:EI:204:LEU:O	2.20	0.42
45:EM:387:VAL:HA	45:EM:390:ARG:HG2	2.02	0.42
46:EN:86:ARG:NH1	46:EN:87:PRO:HG2	2.35	0.42
46:EN:203:ASP:O	46:EN:207:LEU:HG	2.19	0.42
45:FA:425:LEU:HD23	45:FA:425:LEU:HA	1.89	0.42
45:FC:220:GLU:OE2	45:FC:220:GLU:N	2.53	0.42
45:FE:135:PHE:HB2	45:FE:166:LYS:HG2	2.02	0.42
45:FG:207:GLU:HB2	45:FG:304:LYS:HG3	2.00	0.42
45:FI:377:MET:SD	45:FI:379:SER:HB3	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FI:408:TYR:HA	45:FI:411:GLU:OE1	2.20	0.42
46:FJ:100:ASN:HB2	46:FJ:103:LYS:HB2	2.01	0.42
46:FJ:105:HIS:CE1	46:FJ:150:LEU:HD12	2.55	0.42
46:FL:3:GLU:OE2	46:FL:128:ASP:N	2.52	0.42
45:GA:91:GLN:HG2	45:GA:121:ARG:NE	2.35	0.42
46:GB:201:VAL:HG23	46:GB:301:CYS:SG	2.60	0.42
46:GD:8:GLN:HE21	46:GD:65:LEU:HD11	1.85	0.42
45:GE:254:GLU:O	45:GE:254:GLU:HG3	2.19	0.42
46:GF:1:MET:O	46:GF:2:ARG:HG2	2.20	0.42
46:GF:3:GLU:HG3	46:GF:62:ARG:NH1	2.35	0.42
46:GF:164:MET:O	46:GF:197:ASP:HB2	2.20	0.42
45:GI:326:LYS:HA	45:GI:326:LYS:HD2	1.71	0.42
46:GJ:3:GLU:HB2	46:GJ:49:VAL:O	2.20	0.42
46:GJ:49:VAL:HG12	46:GJ:50:TYR:CD1	2.55	0.42
46:GL:265:PHE:HD2	46:GL:378:PHE:HZ	1.68	0.42
46:HD:232:ALA:HB1	46:HD:268:ILE:HD12	2.02	0.42
45:HG:175:PRO:O	45:HG:394:LYS:NZ	2.39	0.42
46:HH:3:GLU:CD	46:HH:3:GLU:H	2.23	0.42
46:HH:117:LEU:HA	46:HH:120:VAL:HG12	2.01	0.42
46:HJ:145:SER:HB3	46:HJ:188:SER:OG	2.20	0.42
45:HK:201:ALA:HB3	45:HK:267:PHE:CD1	2.55	0.42
45:HM:88:HIS:HA	45:IM:280:LYS:HE2	2.02	0.42
45:IC:398:MET:CE	46:ID:346:PRO:HD2	2.50	0.42
46:ID:52:ASN:HD21	46:ID:62:ARG:NH1	2.17	0.42
45:IE:154:LEU:HD21	45:IE:198:THR:OG1	2.19	0.42
46:IF:19:LYS:CE	46:IF:227:HIS:HB2	2.50	0.42
46:IH:215:LEU:HD12	46:IH:215:LEU:H	1.84	0.42
46:IH:257:LEU:HD21	46:IH:314:SER:HB2	2.02	0.42
46:IJ:204:ASN:OD1	49:IJ:501:GDP:O2'	2.37	0.42
46:IL:208:TYR:HE1	46:IL:225:LEU:HD11	1.85	0.42
46:IN:3:GLU:H	46:IN:3:GLU:CD	2.22	0.42
46:IN:6:HIS:O	46:IN:63:ALA:HA	2.19	0.42
46:JB:224:ASP:O	46:JB:228:LEU:HD23	2.20	0.42
46:JF:284:LEU:HD13	46:JF:362:LYS:HG2	2.00	0.42
45:JI:188:ILE:HG22	45:JI:421:ALA:HB1	2.02	0.42
45:JK:8:HIS:HB2	45:JK:67:PHE:CD2	2.55	0.42
45:JK:263:PRO:HD3	46:JN:396:HIS:CE1	2.54	0.42
46:JL:201:VAL:HG23	46:JL:301:CYS:SG	2.59	0.42
45:JM:141:VAL:HG21	45:JM:172:TYR:CE1	2.55	0.42
46:JN:193:VAL:HA	46:JN:264:HIS:CE1	2.55	0.42
46:KD:21:TRP:CH2	46:KD:61:PRO:HB3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:210:TYR:HE1	45:KE:227:LEU:HD11	1.84	0.42
45:KE:300:ASN:O	45:KE:300:ASN:ND2	2.42	0.42
45:KG:426:ALA:O	45:KG:429:GLU:HG3	2.20	0.42
46:KH:22:GLU:HG3	46:KH:81:PHE:CD1	2.55	0.42
46:KJ:54:ALA:HB3	46:KJ:58:ARG:HG2	2.02	0.42
45:KM:30:ILE:HG22	45:KM:31:GLN:O	2.19	0.42
45:KM:184:PRO:O	45:KM:188:ILE:HD12	2.20	0.42
45:KM:387:VAL:HA	45:KM:390:ARG:NH1	2.35	0.42
45:LA:90:GLU:HG2	45:LA:121:ARG:NH1	2.24	0.42
46:LB:54:ALA:HB1	46:MB:281:TYR:O	2.20	0.42
46:LB:207:LEU:HB3	46:LB:225:LEU:HG	2.02	0.42
45:LG:66:VAL:HG11	45:LG:122:ILE:HD11	2.01	0.42
46:LH:175:VAL:O	46:LH:175:VAL:HG23	2.20	0.42
46:LJ:103:LYS:HA	46:LJ:107:THR:HG22	2.02	0.42
46:LJ:404:ASP:N	46:LJ:404:ASP:OD1	2.51	0.42
45:LK:98:ASP:OD1	45:LK:99:ALA:N	2.53	0.42
45:LK:287:SER:N	45:LK:290:GLU:OE2	2.38	0.42
46:LL:86:ARG:HG3	46:LL:87:PRO:HD2	2.02	0.42
46:LN:383:GLU:HA	46:LN:386:THR:HG22	2.00	0.42
45:MA:100:ALA:HB1	46:MB:252:LYS:HA	2.02	0.42
45:MA:326:LYS:HD2	46:MD:220:PRO:HD2	2.01	0.42
46:MB:405:GLU:HA	46:MB:408:PHE:CD1	2.55	0.42
45:MC:250:VAL:HG21	45:MC:318:MET:CE	2.49	0.42
45:ME:282:TYR:CE1	45:ME:371:VAL:HG22	2.55	0.42
46:MF:270:PHE:HD2	46:MF:273:LEU:HD21	1.85	0.42
46:MH:375:GLN:HG2	46:MH:379:LYS:HD2	2.01	0.42
45:MI:282:TYR:CE1	45:MI:371:VAL:HG22	2.53	0.42
45:MM:114:ILE:HG22	45:MM:118:CYS:HG	1.84	0.42
46:MN:99:ASN:HA	46:MN:142:GLY:H	1.83	0.42
46:MN:293:MET:HE3	46:MN:367:PHE:HB2	2.01	0.42
45:NA:71:GLU:HG2	46:NB:2:ARG:HH12	1.85	0.42
45:NE:175:PRO:HA	45:NE:390:ARG:NH1	2.35	0.42
45:NG:103:PHE:CE1	45:NG:148:GLY:HA2	2.50	0.42
46:NH:282:ARG:HB3	46:NH:283:ALA:H	1.60	0.42
45:NK:96:LYS:HB3	46:NL:2:ARG:NH1	2.30	0.42
45:NK:326:LYS:NZ	46:NN:218:THR:O	2.35	0.42
46:NL:87:PRO:HA	46:NL:90:PHE:HD2	1.85	0.42
45:NM:419:SER:O	45:NM:423:GLU:OE1	2.38	0.42
46:NN:178:THR:HG22	46:NN:180:VAL:H	1.85	0.42
45:OA:275:ILE:HG23	45:OA:368:LEU:HD11	2.02	0.42
46:OB:9:GLY:HA2	46:OB:66:MET:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OC:224:TYR:HD1	47:OC:501:GTP:C6	2.37	0.42
46:OD:113:ILE:HA	46:OD:116:VAL:HG12	2.01	0.42
45:OE:169:PHE:HA	45:OE:202:VAL:CG2	2.50	0.42
46:OF:187:LEU:HD11	46:OF:408:PHE:CE1	2.55	0.42
46:OF:329:GLN:HA	46:OF:332:ASN:HD21	1.84	0.42
45:OG:222:PRO:HG2	46:OH:324:LYS:HE3	2.01	0.42
46:OL:178:THR:HG22	46:OL:179:VAL:H	1.85	0.42
46:OL:304:ASP:HB3	46:OL:307:HIS:ND1	2.34	0.42
45:PA:113:GLU:OE2	45:PA:113:GLU:N	2.52	0.42
46:PB:9:GLY:HA2	46:PB:66:MET:O	2.20	0.42
45:PC:174:SER:HB3	45:PC:207:GLU:HG2	2.01	0.42
45:PC:210:TYR:CD1	46:PD:324:LYS:HE3	2.55	0.42
45:PC:282:TYR:OH	45:PC:370:LYS:HB3	2.19	0.42
46:PD:150:LEU:O	46:PD:154:LYS:HG2	2.19	0.42
46:PD:189:VAL:HA	46:PD:192:LEU:HB2	2.02	0.42
46:PD:285:THR:O	46:PD:288:GLU:HG3	2.20	0.42
45:PE:119:LEU:HG	45:PE:156:ARG:NH2	2.35	0.42
45:PE:288:VAL:HA	45:PE:291:ILE:HG12	2.00	0.42
45:PG:426:ALA:O	45:PG:429:GLU:HG2	2.18	0.42
46:PH:203:ASP:OD2	46:PH:302:ALA:N	2.29	0.42
46:PJ:16:ILE:HD11	49:PJ:501:GDP:N2	2.35	0.42
45:PK:217:LEU:HB3	45:PK:219:ILE:HG12	2.02	0.42
45:PM:176:GLN:HG2	46:PN:331:LEU:HD11	2.02	0.42
46:PN:1:MET:CE	46:PN:2:ARG:HG3	2.50	0.42
45:QA:324:VAL:O	45:QA:328:VAL:HG23	2.20	0.42
46:QD:50:TYR:O	46:QD:62:ARG:HG2	2.20	0.42
46:QD:391:ARG:HD2	46:QD:391:ARG:HA	1.83	0.42
46:QH:51:TYR:HB3	46:QH:59:TYR:HB3	2.01	0.42
46:QH:175:VAL:O	46:QH:175:VAL:HG13	2.20	0.42
45:QK:332:ILE:HA	45:QK:335:ILE:HG22	2.02	0.42
46:QL:3:GLU:HB3	46:QL:49:VAL:HA	2.02	0.42
46:QL:322:SER:OG	46:QL:325:GLU:OE1	2.38	0.42
45:RA:292:THR:HG21	45:RA:331:SER:HB3	2.01	0.42
46:RB:20:PHE:O	46:RB:24:ILE:HG12	2.19	0.42
46:RB:68:LEU:HD12	46:RB:93:GLY:HA3	2.01	0.42
46:RB:122:LYS:HE2	46:SB:291:GLN:CD	2.41	0.42
46:RB:161:ASP:OD2	46:RB:162:ARG:HD2	2.20	0.42
46:RB:257:LEU:HA	46:RB:312:THR:HG21	2.02	0.42
46:RB:262:ARG:NH2	46:RB:418:LEU:HD12	2.34	0.42
46:RB:317:PHE:CD1	46:RB:365:VAL:HG22	2.55	0.42
45:RC:71:GLU:HA	45:RC:72:PRO:HD3	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RC:83:TYR:HB3	45:RC:86:LEU:HD12	2.02	0.42
46:RD:251:ARG:HH21	45:RE:105:ARG:HD2	1.84	0.42
46:RD:390:ARG:HB2	46:RD:390:ARG:CZ	2.50	0.42
45:RE:24:PHE:HA	45:RE:27:GLU:HG2	2.01	0.42
45:RE:208:ALA:O	45:RE:212:ILE:HG12	2.20	0.42
45:RG:69:ASP:O	45:RG:94:SER:HA	2.20	0.42
45:RG:434:GLU:O	45:RG:437:ILE:HG12	2.20	0.42
46:RH:2:ARG:HH12	45:RI:71:GLU:HA	1.85	0.42
46:RJ:156:ARG:HH22	46:RJ:197:ASP:CG	2.22	0.42
45:RK:282:TYR:CE1	45:RK:370:LYS:HE3	2.55	0.42
45:RM:217:LEU:HD21	45:RM:368:LEU:HD22	2.01	0.42
46:RN:65:LEU:HD22	46:RN:90:PHE:CE1	2.55	0.42
46:RN:69:GLU:HA	46:RN:70:PRO:HD3	1.86	0.42
46:SB:9:GLY:HA2	46:SB:66:MET:O	2.20	0.42
46:SB:69:GLU:HA	46:SB:70:PRO:HD3	1.85	0.42
45:SG:194:LEU:HB2	45:SG:198:THR:OG1	2.19	0.42
46:SH:345:ILE:O	46:SH:345:ILE:HG23	2.19	0.42
45:SI:217:LEU:HD23	45:SI:217:LEU:HA	1.83	0.42
46:SJ:114:ASP:OD1	46:SJ:115:SER:N	2.52	0.42
45:SK:101:ASN:HA	45:SK:144:GLY:H	1.84	0.42
45:SK:214:ARG:NH2	45:SK:222:PRO:HG3	2.35	0.42
46:SL:24:ILE:HD11	46:SL:28:HIS:HE1	1.85	0.42
45:SM:226:ASN:HA	45:SM:229:ARG:HG2	2.01	0.42
45:TA:147:SER:HB2	45:TA:190:SER:HB3	2.01	0.42
46:TB:222:TYR:O	46:TB:226:ASN:ND2	2.33	0.42
46:TD:86:ARG:HH21	46:TD:87:PRO:CG	2.33	0.42
45:TE:208:ALA:O	45:TE:212:ILE:HG12	2.19	0.42
46:TF:65:LEU:HD11	46:TF:85:PHE:CD2	2.55	0.42
46:TH:69:GLU:HA	46:TH:70:PRO:HD3	1.86	0.42
46:TH:270:PHE:HD1	46:TH:366:THR:HG22	1.85	0.42
46:TJ:6:HIS:HB3	46:TJ:21:TRP:HZ2	1.85	0.42
46:TJ:193:VAL:HG21	46:TJ:418:LEU:HD13	2.02	0.42
46:TJ:269:GLY:HA2	46:TJ:300:MET:CE	2.50	0.42
46:TL:334:GLN:HA	46:TL:341:PHE:CE2	2.55	0.42
45:UG:68:LEU:HD11	45:UG:114:ILE:HG22	2.02	0.42
45:UG:356:ASN:OD1	45:UG:357:TYR:N	2.52	0.42
46:UH:102:ALA:HA	46:UH:403:MET:CE	2.49	0.42
46:UH:190:HIS:ND1	46:UH:411:ALA:HA	2.34	0.42
45:UI:2:ARG:HA	45:UI:133:GLN:HE22	1.85	0.42
45:UI:331:SER:O	45:UI:335:ILE:HG12	2.19	0.42
46:UJ:324:LYS:HD3	45:UK:222:PRO:CG	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UM:56:THR:OG1	45:VK:282:TYR:O	2.37	0.42
45:UM:216:ASN:HB3	45:UM:275:ILE:O	2.20	0.42
46:UN:180:VAL:O	46:UN:180:VAL:HG12	2.19	0.42
46:VB:55:THR:HG23	46:WB:283:ALA:HA	2.01	0.42
46:VB:267:MET:N	46:VB:267:MET:SD	2.93	0.42
46:VB:272:PRO:HG3	46:VB:284:LEU:HD11	2.00	0.42
45:VC:404:PHE:CD2	46:VD:259:PRO:HA	2.55	0.42
45:VE:2:ARG:NH2	45:VE:242:LEU:HA	2.35	0.42
45:VE:81:GLY:O	45:VE:84:ARG:HG3	2.20	0.42
46:VF:2:ARG:HH12	46:VF:240:LEU:CD1	2.33	0.42
45:VG:324:VAL:CG1	45:VG:326:LYS:HG2	2.50	0.42
46:VH:3:GLU:CD	46:VH:3:GLU:H	2.23	0.42
45:VI:152:LEU:O	45:VI:155:GLU:HG3	2.20	0.42
45:VI:172:TYR:OH	45:VI:191:THR:HG22	2.19	0.42
45:VI:342:GLN:N	45:VI:342:GLN:OE1	2.53	0.42
46:VN:132:GLY:HA3	46:VN:163:ILE:O	2.20	0.42
46:VN:132:GLY:CA	46:VN:163:ILE:O	2.68	0.42
46:VN:276:ARG:HD3	46:VN:276:ARG:HA	1.89	0.42
46:WB:282:ARG:NH2	46:WB:288:GLU:HB3	2.35	0.42
46:WF:122:LYS:HD2	46:WF:122:LYS:C	2.40	0.42
45:WG:268:MET:HE3	45:WG:380:ASN:HB2	2.02	0.42
46:WJ:178:THR:HG22	46:WJ:180:VAL:H	1.85	0.42
45:WK:274:PRO:HB3	45:WK:291:ILE:HD12	2.02	0.42
46:WL:10:GLY:O	46:WL:14:ASN:ND2	2.52	0.42
46:WN:258:ILE:HD12	46:WN:264:HIS:HB3	2.00	0.42
46:WN:268:ILE:HG22	46:WN:368:VAL:HG23	2.02	0.42
45:DC:31:GLN:HB2	45:DC:32:PRO:HD2	2.01	0.42
45:DC:326:LYS:HA	45:DC:326:LYS:HD3	1.92	0.42
11:1S:42:ASN:ND2	45:WC:128:ASN:OD1	2.49	0.42
15:2X:6:GLU:OE2	46:ML:223:GLY:HA3	2.19	0.42
25:3R:429:GLU:OE1	46:FL:280:GLN:HB2	2.20	0.42
13:3U:192:ILE:HD13	46:WN:78:ALA:HB1	2.02	0.42
36:5A:57:PRO:HB3	46:KB:391:ARG:HD2	2.02	0.42
36:5A:58:TYR:HD2	46:KB:392:LYS:HD2	1.84	0.42
36:5A:90:GLN:HE22	36:5A:98:LEU:H	1.67	0.42
36:5A:156:VAL:HG22	36:5A:158:ASN:H	1.84	0.42
36:5B:142:GLN:HB3	46:NH:320:ARG:HH11	1.84	0.42
37:5E:116:TYR:CE1	45:NA:85:GLN:HA	2.52	0.42
37:5F:16:GLN:HA	37:5F:22:LYS:HD2	2.02	0.42
37:5G:67:ARG:HA	37:5G:68:PRO:HD3	1.87	0.42
34:5R:64:ASP:OD2	34:5R:64:ASP:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:6G:118:LYS:HE2	46:UJ:117:LEU:HD23	2.02	0.42
10:6Q:25:TRP:CE3	10:6Q:59:ILE:HG22	2.55	0.42
34:6R:51:PRO:O	34:6R:54:ILE:HG22	2.20	0.42
34:6R:83:PRO:HD2	34:6R:86:LEU:HD12	2.01	0.42
34:7R:318:TYR:HB3	34:7R:321:MET:SD	2.59	0.42
34:7R:463:SER:OG	46:FB:276:ARG:NH2	2.44	0.42
45:AA:93:ILE:HG12	45:AA:117:LEU:HD22	2.00	0.42
45:AA:231:ILE:O	45:AA:235:ILE:HG12	2.20	0.42
46:AD:287:PRO:HG3	46:AD:329:GLN:NE2	2.35	0.42
46:AH:77:ARG:HB3	46:AH:77:ARG:HH11	1.84	0.42
45:AI:201:ALA:HB3	45:AI:267:PHE:CD2	2.55	0.42
46:AJ:289:LEU:HD11	46:AJ:363:MET:HB3	2.02	0.42
45:AK:171:ILE:HG23	45:AK:204:LEU:O	2.20	0.42
45:AM:384:ILE:O	45:AM:387:VAL:HG22	2.20	0.42
46:AN:317:PHE:HE2	46:AN:326:VAL:HG13	1.85	0.42
45:BA:318:MET:O	45:BA:375:VAL:HA	2.20	0.42
45:BC:221:ARG:NH2	46:BD:322:SER:H	2.18	0.42
46:BD:20:PHE:O	46:BD:24:ILE:HG12	2.20	0.42
46:BF:118:ASP:O	46:BF:122:LYS:HG2	2.19	0.42
46:BF:133:PHE:HB2	46:BF:164:MET:CE	2.50	0.42
46:BF:242:PHE:CD1	46:BF:356:ILE:HG13	2.55	0.42
45:BG:288:VAL:HA	45:BG:291:ILE:HG12	2.01	0.42
46:BJ:10:GLY:O	46:BJ:14:ASN:ND2	2.52	0.42
45:BK:306:ASP:OD2	45:BK:308:ARG:HB2	2.20	0.42
45:CA:32:PRO:HB3	45:CA:83:TYR:CE1	2.54	0.42
45:CA:335:ILE:HA	45:CA:338:LYS:NZ	2.35	0.42
46:CB:254:ALA:O	46:CB:258:ILE:HD12	2.20	0.42
46:CB:289:LEU:HD11	46:CB:363:MET:HG2	2.00	0.42
46:CB:375:GLN:CD	46:CB:379:LYS:HZ2	2.23	0.42
45:CC:257:THR:HG21	46:CD:98:GLY:O	2.20	0.42
45:CI:154:LEU:HD12	45:CI:155:GLU:N	2.34	0.42
46:CJ:287:PRO:HA	46:CJ:329:GLN:HE22	1.85	0.42
46:CJ:319:GLY:HA2	46:CJ:357:PRO:HD3	2.02	0.42
45:CK:350:GLY:HA2	46:CL:179:VAL:HG12	2.02	0.42
45:CM:35:GLN:NE2	45:CM:60:LYS:HB2	2.35	0.42
45:CM:88:HIS:ND1	45:CM:90:GLU:HG3	2.35	0.42
45:CM:331:SER:O	45:CM:335:ILE:HG12	2.19	0.42
45:DA:124:LYS:HE2	45:DA:124:LYS:HB2	1.87	0.42
46:DB:97:ALA:HB3	46:DB:143:THR:HB	2.02	0.42
46:DB:377:MET:O	46:DB:380:ARG:HG2	2.20	0.42
46:DH:67:ASP:OD1	46:DH:68:LEU:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DH:379:LYS:HG3	46:DH:383:GLU:OE2	2.20	0.42
45:DI:311:LYS:N	45:DI:382:THR:OG1	2.52	0.42
46:DL:334:GLN:HA	46:DL:341:PHE:CE1	2.54	0.42
45:EA:88:HIS:HB3	45:EA:91:GLN:HG2	2.02	0.42
46:ED:310:TYR:HB2	46:ED:341:PHE:HD1	1.85	0.42
45:EE:323:VAL:HA	45:EE:373:ARG:HH12	1.84	0.42
46:EF:378:PHE:HA	46:EF:381:VAL:HG12	2.01	0.42
46:EJ:258:ILE:HG13	45:EK:407:TRP:HE1	1.85	0.42
46:FB:201:VAL:HG22	46:FB:266:PHE:O	2.20	0.42
45:FC:181:VAL:HG23	45:FC:182:VAL:HG13	2.02	0.42
45:FC:205:ASP:OD1	45:FC:303:ALA:HA	2.20	0.42
45:FE:135:PHE:HZ	45:FE:161:TYR:HE2	1.68	0.42
46:FF:406:MET:N	46:FF:406:MET:SD	2.93	0.42
45:FG:398:MET:HE1	46:FH:345:ILE:HA	2.02	0.42
46:FH:102:ALA:HB2	46:FH:403:MET:HE2	2.02	0.42
45:FI:256:GLN:H	45:FI:256:GLN:HG3	1.66	0.42
45:FI:287:SER:HB3	45:FI:290:GLU:OE1	2.20	0.42
45:FI:332:ILE:HD12	45:FI:351:PHE:CE2	2.55	0.42
46:FJ:229:VAL:O	46:FJ:233:MET:HG3	2.20	0.42
45:FK:27:GLU:HG3	45:FK:28:HIS:ND1	2.35	0.42
46:FN:12:CYS:O	46:FN:16:ILE:HG12	2.20	0.42
46:FN:20:PHE:O	46:FN:24:ILE:HG12	2.20	0.42
45:GC:145:THR:HG22	47:GC:501:GTP:PG	2.60	0.42
45:GE:27:GLU:OE1	45:GE:243:ARG:NH1	2.34	0.42
45:GE:68:LEU:HD21	45:GE:118:CYS:SG	2.60	0.42
45:GG:164:LYS:HD3	45:GG:164:LYS:HA	1.85	0.42
45:GI:150:GLY:O	45:GI:154:LEU:HG	2.19	0.42
45:GI:205:ASP:OD1	45:GI:303:ALA:HA	2.20	0.42
45:GK:259:LEU:HD11	45:GK:316:SER:HB2	2.01	0.42
46:GL:318:ARG:HH11	46:GL:358:PRO:HG3	1.85	0.42
46:GN:185:ALA:O	46:GN:189:VAL:HG23	2.20	0.42
45:HA:260:VAL:HB	46:HD:397:TRP:CH2	2.54	0.42
46:HB:20:PHE:O	46:HB:24:ILE:HG12	2.20	0.42
45:HC:200:VAL:HG13	45:HC:268:MET:SD	2.59	0.42
45:HE:34:GLY:O	45:HE:60:LYS:HA	2.20	0.42
45:HE:434:GLU:O	45:HE:437:ILE:HG12	2.20	0.42
46:HF:175:VAL:CG2	46:HF:205:GLU:HB3	2.49	0.42
46:HF:324:LYS:HG3	46:HF:325:GLU:N	2.35	0.42
45:HG:91:GLN:HB3	45:HG:121:ARG:HH12	1.84	0.42
46:HH:148:GLY:O	46:HH:152:ILE:HG12	2.19	0.42
45:HI:69:ASP:CG	45:HI:71:GLU:H	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HJ:287:PRO:HG3	46:HJ:329:GLN:NE2	2.35	0.42
46:HJ:372:THR:O	46:HJ:375:GLN:HG2	2.20	0.42
46:HL:6:HIS:O	46:HL:63:ALA:HA	2.20	0.42
45:HM:123:ARG:HH11	45:HM:123:ARG:HA	1.85	0.42
46:HN:86:ARG:HA	46:IN:281:TYR:CE1	2.55	0.42
45:IA:401:LYS:HB2	45:IA:401:LYS:HE3	1.78	0.42
46:IB:200:MET:SD	46:IB:268:ILE:HD13	2.60	0.42
46:ID:145:SER:OG	46:ID:188:SER:HB3	2.20	0.42
45:IE:88:HIS:HB3	45:IE:91:GLN:HG2	2.01	0.42
46:IF:341:PHE:HB3	46:IF:348:ASN:HD21	1.84	0.42
46:IH:73:MET:CE	46:IH:92:PHE:HB3	2.50	0.42
45:II:200:VAL:HG13	45:II:268:MET:CE	2.50	0.42
45:II:402:ARG:HA	45:II:402:ARG:HD3	1.80	0.42
45:IK:323:VAL:HG13	45:IK:373:ARG:HG2	2.02	0.42
46:IL:69:GLU:HA	46:IL:70:PRO:HD3	1.93	0.42
46:IL:91:VAL:HG21	46:IL:116:VAL:HB	2.02	0.42
45:IM:419:SER:O	45:IM:423:GLU:OE1	2.38	0.42
46:IN:361:LEU:HD23	46:IN:361:LEU:HA	1.83	0.42
45:JC:174:SER:HB3	45:JC:207:GLU:HG2	2.01	0.42
45:JC:215:ARG:HB2	45:JC:215:ARG:HH11	1.84	0.42
46:JD:285:THR:HG23	46:JD:288:GLU:H	1.85	0.42
45:JE:175:PRO:HG3	45:JE:390:ARG:NH1	2.35	0.42
46:JF:263:LEU:HD22	46:JF:422:TYR:CD1	2.54	0.42
46:JH:145:SER:HB2	46:JH:188:SER:OG	2.20	0.42
45:JI:90:GLU:H	45:KI:280:LYS:NZ	2.18	0.42
45:JI:108:TYR:HA	45:JI:112:LYS:HZ3	1.85	0.42
45:JK:88:HIS:ND1	45:JK:89:PRO:HD2	2.35	0.42
45:JK:262:TYR:OH	46:JN:391:ARG:O	2.26	0.42
45:KE:152:LEU:HD12	45:KE:152:LEU:HA	1.88	0.42
45:KE:214:ARG:HD2	45:KE:214:ARG:O	2.20	0.42
46:KF:253:LEU:HD11	46:KF:316:LEU:HD11	2.02	0.42
46:KH:3:GLU:HG3	46:KH:62:ARG:NH1	2.35	0.42
45:KI:253:THR:HA	45:KI:256:GLN:NE2	2.34	0.42
46:KJ:32:PRO:HG3	46:KJ:81:PHE:CD2	2.55	0.42
46:KJ:173:PRO:HD2	46:KJ:174:LYS:HZ3	1.85	0.42
45:LC:141:VAL:HG23	45:LC:170:THR:HB	2.02	0.42
45:LC:223:THR:HG22	45:LC:224:TYR:H	1.84	0.42
45:LE:71:GLU:HA	45:LE:72:PRO:HD3	1.88	0.42
45:LG:170:THR:O	45:LG:204:LEU:HB2	2.18	0.42
46:LH:65:LEU:HD22	46:LH:90:PHE:CE1	2.54	0.42
45:LI:66:VAL:HG11	45:LI:122:ILE:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LI:392:ASP:OD1	45:LI:422:ARG:NH1	2.53	0.42
46:LL:73:MET:HE1	46:LL:91:VAL:O	2.19	0.42
46:LL:200:MET:CE	46:LL:268:ILE:HG21	2.50	0.42
45:LM:69:ASP:OD1	45:LM:70:LEU:N	2.51	0.42
46:MF:311:LEU:HD23	46:MF:311:LEU:HA	1.89	0.42
45:MG:101:ASN:HA	45:MG:144:GLY:H	1.84	0.42
45:MG:276:ILE:HG13	45:MG:280:LYS:HE3	2.01	0.42
45:MI:338:LYS:HE2	45:MI:338:LYS:HB2	1.81	0.42
46:MJ:173:PRO:HG2	46:MJ:380:ARG:NE	2.34	0.42
45:MK:56:THR:HG23	45:MK:58:ALA:H	1.85	0.42
45:MK:231:ILE:O	45:MK:235:ILE:HG12	2.20	0.42
46:ML:105:HIS:CE1	46:ML:150:LEU:HD12	2.55	0.42
46:ML:233:MET:O	46:ML:236:VAL:HG12	2.20	0.42
45:NC:425:LEU:O	45:NC:429:GLU:HG2	2.20	0.42
46:ND:97:ALA:HA	46:ND:103:LYS:HZ2	1.84	0.42
46:NF:207:LEU:HD23	46:NF:225:LEU:HB3	2.00	0.42
45:NG:11:GLN:NE2	46:NH:245:GLN:O	2.52	0.42
45:NI:101:ASN:HA	45:NI:144:GLY:H	1.84	0.42
45:NI:107:HIS:ND1	45:NI:107:HIS:O	2.53	0.42
45:NI:265:ILE:HG12	45:NI:432:TYR:CE1	2.55	0.42
45:NI:330:ALA:O	45:NI:334:THR:HG23	2.20	0.42
46:NL:113:ILE:HG12	46:NL:117:LEU:HG	2.02	0.42
47:NM:501:GTP:O1G	46:NN:252:LYS:NZ	2.33	0.42
46:NN:194:GLU:OE2	46:NN:414:ASN:ND2	2.53	0.42
46:NN:373:ALA:O	46:NN:376:GLU:HG2	2.19	0.42
46:NN:386:THR:OG1	46:NN:390:ARG:NH2	2.53	0.42
45:OA:209:ILE:HG12	45:OA:230:LEU:HD11	2.02	0.42
45:OA:386:GLU:OE1	45:OA:386:GLU:N	2.51	0.42
46:OD:52:ASN:HD21	46:OD:62:ARG:HB3	1.84	0.42
45:OE:137:VAL:HG23	45:OE:168:GLY:HA2	2.02	0.42
46:OF:213:ARG:NH1	46:OF:297:LYS:HG2	2.35	0.42
45:OG:119:LEU:O	45:OG:122:ILE:HG22	2.20	0.42
45:OG:271:SER:OG	45:OG:301:MET:HG3	2.20	0.42
45:OG:427:ALA:HA	45:OG:430:LYS:HG2	2.02	0.42
46:OH:87:PRO:HA	46:OH:90:PHE:CD2	2.55	0.42
45:OI:141:VAL:HG11	45:OI:172:TYR:CD2	2.55	0.42
45:OI:185:TYR:HE1	45:OI:398:MET:HB2	1.85	0.42
45:OI:210:TYR:HE1	45:OI:227:LEU:HD21	1.84	0.42
46:OJ:350:LYS:NZ	46:OJ:351:SER:O	2.48	0.42
45:OK:107:HIS:ND1	45:OK:107:HIS:O	2.53	0.42
45:OK:141:VAL:HG12	45:OK:171:ILE:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OM:206:ASN:HB2	45:OM:210:TYR:HE2	1.84	0.42
46:ON:316:LEU:HB2	46:ON:366:THR:HB	2.01	0.42
45:PA:98:ASP:OD1	45:PA:99:ALA:N	2.53	0.42
45:PA:173:PRO:O	45:PA:390:ARG:NH2	2.53	0.42
46:PB:344:TRP:O	46:PB:345:ILE:HD13	2.19	0.42
45:PC:195:LEU:HD12	45:PC:428:LEU:HD22	2.01	0.42
45:PC:260:VAL:HG13	45:PC:265:ILE:O	2.20	0.42
46:PD:21:TRP:CZ3	46:PD:50:TYR:HB3	2.55	0.42
46:PD:54:ALA:HB3	46:PD:58:ARG:HG2	2.00	0.42
46:PD:171:PRO:HB2	46:PD:181:GLU:HG2	2.01	0.42
45:PE:209:ILE:CG2	45:PE:227:LEU:HG	2.50	0.42
46:PF:184:ASN:OD1	46:PF:185:ALA:N	2.53	0.42
45:PG:107:HIS:ND1	45:PG:107:HIS:O	2.53	0.42
45:PG:119:LEU:HG	45:PG:156:ARG:NE	2.35	0.42
46:PJ:210:ILE:O	46:PJ:214:THR:OG1	2.32	0.42
46:PJ:344:TRP:HB3	46:PJ:430:ALA:HB2	2.02	0.42
45:PK:163:LYS:HA	45:PK:163:LYS:HD3	1.97	0.42
46:PL:64:ILE:HA	46:PL:89:ASN:HB3	2.02	0.42
46:PN:9:GLY:HA2	46:PN:66:MET:O	2.20	0.42
46:QB:83:GLN:CD	46:QB:83:GLN:H	2.23	0.42
46:QB:232:ALA:HB1	46:QB:268:ILE:HD12	2.01	0.42
45:QC:326:LYS:HD3	46:QD:212:PHE:HZ	1.83	0.42
45:QC:345:ASP:N	45:QC:345:ASP:OD2	2.53	0.42
45:QC:414:GLU:HG2	45:QC:417:GLU:OE1	2.20	0.42
46:QD:86:ARG:CZ	46:QD:89:ASN:HB3	2.50	0.42
45:QE:34:GLY:HA3	45:QE:60:LYS:HG3	2.01	0.42
46:QF:258:ILE:HD11	45:QG:407:TRP:HZ2	1.85	0.42
45:QI:174:SER:HB3	45:QI:177:VAL:HB	2.02	0.42
46:QJ:289:LEU:HD23	46:QJ:289:LEU:HA	1.82	0.42
46:QL:36:TYR:CZ	46:QL:44:LEU:HD11	2.55	0.42
45:QM:67:PHE:HD2	45:QM:92:LEU:HD13	1.85	0.42
46:QN:105:HIS:CE1	46:QN:150:LEU:HD12	2.54	0.42
46:RB:105:HIS:CE1	46:RB:150:LEU:HD12	2.55	0.42
45:RG:60:LYS:HE3	45:RG:60:LYS:HB3	1.86	0.42
45:RG:292:THR:HG21	45:RG:331:SER:HB2	2.02	0.42
46:RH:288:GLU:O	46:RH:291:GLN:HG3	2.19	0.42
45:RK:27:GLU:OE2	45:RK:243:ARG:NH2	2.52	0.42
45:RK:36:MET:CE	45:RK:37:PRO:HD2	2.50	0.42
45:RK:209:ILE:CD1	45:RK:227:LEU:HD12	2.50	0.42
46:RL:135:ILE:HD11	46:RL:152:ILE:HD11	2.01	0.42
46:RL:317:PHE:HD1	46:RL:365:VAL:HG22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:122:LYS:HA	46:SB:122:LYS:HD2	1.85	0.42
46:SB:221:THR:HG22	46:SB:224:ASP:OD1	2.20	0.42
45:SC:317:MET:HB3	45:SC:319:TYR:CE1	2.55	0.42
46:SD:317:PHE:CD1	46:SD:365:VAL:HG22	2.55	0.42
45:SE:402:ARG:NH1	45:SE:405:VAL:HB	2.35	0.42
45:SE:411:GLU:N	45:SE:411:GLU:OE1	2.52	0.42
45:SG:225:THR:O	45:SG:229:ARG:HG3	2.19	0.42
46:SH:136:THR:HG22	46:SH:167:PHE:HB2	2.00	0.42
46:SH:182:PRO:HD2	46:SH:183:TYR:H	1.84	0.42
46:SH:258:ILE:HG13	45:SI:407:TRP:CZ2	2.55	0.42
45:SI:223:THR:HG23	45:SI:225:THR:H	1.85	0.42
45:SK:102:ASN:HB3	45:SK:105:ARG:HB2	2.02	0.42
45:SK:386:GLU:O	45:SK:390:ARG:HG3	2.20	0.42
46:SL:131:GLN:NE2	46:SL:251:ARG:HG3	2.35	0.42
45:TC:385:ALA:HA	45:TC:388:PHE:HD2	1.84	0.42
46:TF:256:ASN:ND2	45:TG:181:VAL:HG22	2.35	0.42
46:TF:258:ILE:HG13	46:TF:258:ILE:O	2.20	0.42
45:TG:352:LYS:HD2	46:TH:179:VAL:HG13	2.02	0.42
46:TH:6:HIS:O	46:TH:63:ALA:HA	2.20	0.42
46:TH:21:TRP:CD1	46:TH:85:PHE:HZ	2.37	0.42
45:TI:280:LYS:HA	45:TI:283:HIS:ND1	2.35	0.42
46:TJ:68:LEU:HD13	46:TJ:93:GLY:HA3	2.01	0.42
46:TJ:203:ASP:O	46:TJ:207:LEU:HG	2.19	0.42
45:TM:88:HIS:ND1	45:TM:90:GLU:HG3	2.35	0.42
45:UA:64:ARG:NH1	45:UA:129:CYS:SG	2.93	0.42
46:UB:164:MET:HE3	46:UB:165:GLU:N	2.34	0.42
46:UB:322:SER:OG	45:UC:221:ARG:CZ	2.68	0.42
46:UB:350:LYS:HD2	45:UC:180:ALA:HA	2.01	0.42
45:UC:252:ILE:HA	45:UC:255:PHE:CD2	2.55	0.42
46:UD:233:MET:O	46:UD:236:VAL:HG12	2.19	0.42
45:UE:135:PHE:CD2	45:UE:157:LEU:HD13	2.55	0.42
46:UL:310:TYR:CD1	46:UL:371:SER:HB2	2.55	0.42
46:VB:113:ILE:HA	46:VB:116:VAL:HG22	2.01	0.42
45:VC:2:ARG:O	45:VC:51:THR:HA	2.20	0.42
45:VC:216:ASN:HB3	45:VC:275:ILE:O	2.20	0.42
45:VC:248:LEU:HD12	45:VC:248:LEU:HA	1.89	0.42
45:VC:258:ASN:ND2	45:VC:352:LYS:HE3	2.35	0.42
45:VC:331:SER:O	45:VC:335:ILE:HG12	2.20	0.42
45:VE:377:MET:SD	45:VE:379:SER:HB3	2.60	0.42
46:VF:139:LEU:HD22	46:VF:188:SER:OG	2.20	0.42
46:VF:238:CYS:SG	46:VF:239:CYS:N	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:315:CYS:O	45:VG:351:PHE:HA	2.20	0.42
46:VH:55:THR:HG23	46:WH:283:ALA:HA	2.02	0.42
45:VI:153:LEU:O	45:VI:157:LEU:HD23	2.20	0.42
45:VI:356:ASN:OD1	45:VI:357:TYR:N	2.53	0.42
45:VI:377:MET:O	45:VI:378:ILE:HD13	2.20	0.42
46:VJ:156:ARG:NH1	46:VJ:195:ASN:O	2.53	0.42
46:VL:22:GLU:HG2	46:VL:81:PHE:CD1	2.55	0.42
46:VL:274:THR:HG21	46:VL:279:GLN:HB3	2.02	0.42
45:VM:71:GLU:OE1	46:VN:247:ASN:ND2	2.53	0.42
45:VM:172:TYR:HB2	45:VM:203:MET:SD	2.59	0.42
45:WA:145:THR:HG22	47:WA:501:GTP:PG	2.60	0.42
45:WA:154:LEU:HD12	45:WA:155:GLU:HG3	2.02	0.42
46:WD:7:ILE:HG22	46:WD:64:ILE:HD13	2.02	0.42
46:WD:41:ASP:OD1	46:WD:42:LEU:N	2.52	0.42
46:WD:139:LEU:HD22	46:WD:188:SER:CB	2.50	0.42
45:WE:345:ASP:OD1	45:WE:439:THR:HG22	2.20	0.42
45:WI:174:SER:HB2	45:WI:177:VAL:HB	2.01	0.42
45:WI:251:ASP:OD2	45:WI:253:THR:HG22	2.20	0.42
45:WK:96:LYS:NZ	46:WL:129:CYS:SG	2.79	0.42
46:WN:6:HIS:O	46:WN:63:ALA:HA	2.19	0.42
45:CE:103:PHE:N	45:CE:408:TYR:HE2	2.18	0.42
1:0A:3:GLN:HE21	34:7R:7:LYS:C	2.23	0.41
7:0G:43:SER:HA	46:JL:355:ASP:HB3	2.02	0.41
10:1Q:102:ARG:HH12	45:AC:430:LYS:HG3	1.85	0.41
26:1W:78:GLN:HG2	45:KE:57:GLY:O	2.19	0.41
31:2I:139:ARG:NH2	46:GD:337:ASN:HB3	2.35	0.41
10:3Q:115:LYS:HD2	45:AG:264:ARG:HH21	1.85	0.41
36:5D:65:THR:HG23	36:5D:68:ASP:H	1.85	0.41
37:5G:18:THR:O	37:5G:22:LYS:HG2	2.19	0.41
37:5G:154:TYR:CZ	46:NL:35:THR:HG23	2.54	0.41
10:5Q:29:ILE:HG13	10:5Q:34:ILE:HD11	2.01	0.41
34:5R:48:LYS:O	34:5R:49:ASN:OD1	2.38	0.41
35:5S:162:LEU:HG	35:5S:221:THR:HG21	2.02	0.41
39:6F:42:ASN:O	39:6F:46:PHE:HB2	2.20	0.41
34:7R:48:LYS:HG3	34:7R:49:ASN:N	2.34	0.41
34:7R:593:ASP:OD2	34:7R:597:ASN:N	2.53	0.41
45:AA:203:MET:HE3	45:AA:205:ASP:HB3	2.02	0.41
45:AC:210:TYR:HB3	46:AD:324:LYS:HZ3	1.85	0.41
46:AD:105:HIS:CD2	46:AD:150:LEU:HB2	2.54	0.41
45:AE:186:ASN:OD1	45:AE:187:SER:N	2.53	0.41
45:AG:377:MET:SD	45:AG:379:SER:HB3	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AJ:173:PRO:HG2	46:AJ:380:ARG:NE	2.35	0.41
45:AK:141:VAL:HG12	45:AK:171:ILE:O	2.19	0.41
45:AK:213:CYS:SG	45:AK:219:ILE:HB	2.59	0.41
46:AL:139:LEU:HD22	46:AL:170:VAL:HG12	2.02	0.41
46:AL:199:CYS:HB3	46:AL:265:PHE:CD2	2.54	0.41
46:AL:290:THR:O	46:AL:293:MET:HB3	2.20	0.41
45:AM:262:TYR:HB2	45:AM:265:ILE:HG12	2.01	0.41
45:AM:425:LEU:HA	45:AM:425:LEU:HD23	1.79	0.41
46:AN:202:ILE:HD11	46:AN:268:ILE:HD11	2.02	0.41
45:BA:141:VAL:HG11	45:BA:172:TYR:CD1	2.54	0.41
45:BA:433:GLU:O	45:BA:437:ILE:HG23	2.20	0.41
46:BD:6:HIS:HD1	46:BD:21:TRP:HE1	1.68	0.41
45:BE:221:ARG:N	45:BE:222:PRO:HD3	2.34	0.41
45:BE:352:LYS:HD2	46:BH:177:ASP:O	2.20	0.41
45:BE:419:SER:O	45:BE:423:GLU:OE1	2.38	0.41
46:BF:137:HIS:O	46:BF:168:SER:HA	2.20	0.41
46:BF:318:ARG:HB2	46:BF:364:ALA:HB3	2.02	0.41
45:BG:257:THR:HG22	46:BJ:397:TRP:HZ3	1.85	0.41
46:BH:348:ASN:O	46:BH:349:ILE:HD13	2.20	0.41
45:BI:11:GLN:NE2	46:BJ:245:GLN:O	2.53	0.41
45:BI:210:TYR:CD1	46:BJ:324:LYS:HE3	2.55	0.41
45:BI:268:MET:N	45:BI:268:MET:SD	2.93	0.41
45:BI:431:ASP:O	45:BI:434:GLU:HG3	2.20	0.41
45:BK:102:ASN:HB3	45:BK:105:ARG:HG3	2.02	0.41
46:BL:1:MET:O	46:BL:2:ARG:HG2	2.19	0.41
46:BN:200:MET:HE2	46:BN:268:ILE:HG21	2.02	0.41
45:CA:83:TYR:HB3	45:CA:86:LEU:HD12	2.01	0.41
45:CA:141:VAL:HG12	45:CA:171:ILE:O	2.19	0.41
46:CD:345:ILE:HG23	46:CD:345:ILE:O	2.20	0.41
45:CG:167:LEU:HG	45:CG:200:VAL:HB	2.01	0.41
45:CG:324:VAL:CG1	45:CG:326:LYS:HE2	2.47	0.41
46:CH:246:LEU:HD11	45:CI:224:TYR:HE2	1.84	0.41
45:CI:268:MET:CG	45:CI:380:ASN:HB3	2.49	0.41
45:CK:47:ASP:O	45:CK:50:ASN:HB3	2.20	0.41
45:CK:107:HIS:ND1	45:CK:107:HIS:O	2.53	0.41
45:CK:167:LEU:HD13	45:CK:200:VAL:HB	2.02	0.41
46:DB:11:GLN:O	46:DB:15:GLN:HG2	2.20	0.41
46:DH:1:MET:N	46:DH:48:ASN:HD21	2.17	0.41
46:DH:101:TRP:CE3	46:DH:187:LEU:HD13	2.54	0.41
45:DK:3:GLU:N	45:DK:3:GLU:OE1	2.53	0.41
46:DL:11:GLN:HA	46:DL:72:THR:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DL:28:HIS:HA	46:DL:43:GLN:OE1	2.19	0.41
45:DM:5:ILE:HD12	45:DM:125:LEU:HD13	2.03	0.41
45:DM:24:PHE:O	45:DM:27:GLU:HG2	2.20	0.41
45:DM:69:ASP:O	45:DM:94:SER:HA	2.20	0.41
45:DM:319:TYR:CE2	45:DM:328:VAL:HG22	2.54	0.41
45:DM:331:SER:O	45:DM:335:ILE:HG12	2.19	0.41
45:EA:141:VAL:HG11	45:EA:172:TYR:HD1	1.83	0.41
45:EC:210:TYR:HE1	45:EC:227:LEU:HD11	1.85	0.41
46:ED:9:GLY:HA2	46:ED:66:MET:O	2.19	0.41
45:EE:88:HIS:HB3	45:EE:91:GLN:HG2	2.02	0.41
45:EE:328:VAL:HG11	45:EE:353:VAL:HG21	2.02	0.41
45:EE:430:LYS:O	45:EE:433:GLU:HG3	2.20	0.41
45:EI:93:ILE:HG22	45:EI:114:ILE:HD11	2.02	0.41
45:EI:202:VAL:HA	45:EI:268:MET:O	2.20	0.41
46:EJ:19:LYS:HZ1	46:EJ:227:HIS:HB2	1.84	0.41
45:EK:419:SER:O	45:EK:423:GLU:OE1	2.38	0.41
46:EL:70:PRO:HG3	46:EL:92:PHE:CD2	2.55	0.41
46:EL:108:GLU:O	46:EL:111:GLU:HG3	2.20	0.41
46:FB:16:ILE:HD13	46:FB:226:ASN:OD1	2.20	0.41
46:FB:322:SER:OG	46:FB:323:THR:N	2.53	0.41
46:FB:359:LYS:HA	46:FB:359:LYS:HD2	1.78	0.41
46:FD:268:ILE:C	46:FD:299:MET:HE3	2.40	0.41
46:FF:395:LEU:O	46:FF:399:THR:HG23	2.20	0.41
46:FH:19:LYS:HG3	46:FH:226:ASN:HB3	2.02	0.41
46:FH:113:ILE:HA	46:FH:116:VAL:HG12	2.01	0.41
46:FH:178:THR:O	46:FH:181:GLU:HG3	2.21	0.41
46:FH:238:CYS:SG	46:FH:239:CYS:N	2.93	0.41
45:FI:100:ALA:O	46:FJ:255:VAL:HG11	2.20	0.41
46:FN:97:ALA:HB3	46:FN:143:THR:HB	2.02	0.41
46:FN:318:ARG:HB3	46:FN:357:PRO:HA	2.02	0.41
45:GC:221:ARG:HH22	46:GD:325:GLU:CD	2.23	0.41
46:GD:226:ASN:ND2	49:GD:501:GDP:HN1	2.11	0.41
46:GF:77:ARG:HH11	46:GF:77:ARG:HG2	1.85	0.41
46:GF:309:ARG:NH2	46:GF:426:GLN:O	2.45	0.41
46:GF:385:PHE:CE2	46:GF:412:GLU:HB3	2.55	0.41
46:GF:399:THR:HA	46:GF:403:MET:O	2.20	0.41
45:GG:344:VAL:HG11	45:GG:346:TRP:CH2	2.55	0.41
46:GJ:107:THR:HG1	46:GJ:108:GLU:CD	2.18	0.41
46:GJ:222:TYR:O	46:GJ:226:ASN:ND2	2.26	0.41
46:GJ:359:LYS:HE3	46:GJ:359:LYS:HB2	1.88	0.41
45:GK:135:PHE:HB2	45:GK:166:LYS:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GL:239:CYS:SG	46:GL:247:ASN:HA	2.60	0.41
46:HB:201:VAL:HG23	46:HB:301:CYS:SG	2.60	0.41
45:HC:32:PRO:HB3	45:HC:83:TYR:HE1	1.84	0.41
45:HC:426:ALA:O	45:HC:429:GLU:HG3	2.20	0.41
45:HE:296:PHE:HD2	45:HE:335:ILE:HD12	1.85	0.41
45:HE:397:LEU:HD23	46:HF:346:PRO:HG3	2.01	0.41
46:HF:99:ASN:HA	46:HF:142:GLY:HA3	2.02	0.41
45:HG:222:PRO:HG2	46:HH:324:LYS:CD	2.50	0.41
46:HH:139:LEU:HD13	46:HH:168:SER:OG	2.19	0.41
45:HI:414:GLU:OE2	45:HI:417:GLU:N	2.53	0.41
46:HL:99:ASN:HA	46:HL:142:GLY:H	1.84	0.41
45:IC:98:ASP:OD1	45:IC:99:ALA:N	2.52	0.41
45:IC:368:LEU:HD12	45:IC:368:LEU:H	1.85	0.41
45:IG:155:GLU:OE2	45:IG:156:ARG:NH2	2.53	0.41
45:IG:336:LYS:HE3	45:IG:351:PHE:HE1	1.85	0.41
45:IG:430:LYS:O	45:IG:433:GLU:HG3	2.20	0.41
46:IH:32:PRO:HA	46:IH:84:LEU:HD11	2.02	0.41
45:II:52:PHE:CZ	45:II:239:THR:HG21	2.55	0.41
45:II:69:ASP:HB3	45:II:75:ILE:HD11	2.01	0.41
45:II:109:THR:HB	45:II:110:ILE:HD12	2.02	0.41
46:IJ:280:GLN:HG2	46:IJ:281:TYR:HD2	1.85	0.41
46:IL:19:LYS:HG3	46:IL:226:ASN:HB3	2.02	0.41
45:IM:207:GLU:OE1	45:IM:207:GLU:N	2.49	0.41
46:IN:318:ARG:NE	46:IN:356:ILE:O	2.40	0.41
45:JA:215:ARG:HG3	45:JA:216:ASN:N	2.35	0.41
45:JC:56:THR:HG21	45:JC:60:LYS:HG2	2.02	0.41
45:JC:276:ILE:HD13	45:JC:281:ALA:HA	2.02	0.41
46:JD:190:HIS:ND1	46:JD:411:ALA:HA	2.34	0.41
45:JI:395:PHE:CD2	45:JI:422:ARG:HD3	2.55	0.41
45:JK:101:ASN:HA	45:JK:144:GLY:H	1.84	0.41
45:JK:211:ASP:O	45:JK:215:ARG:HD3	2.20	0.41
45:JM:107:HIS:ND1	45:JM:107:HIS:O	2.53	0.41
45:JM:169:PHE:HA	45:JM:202:VAL:HG22	2.02	0.41
45:KC:404:PHE:CD1	46:KD:259:PRO:HA	2.55	0.41
46:KD:238:CYS:HB2	46:KD:318:ARG:HH11	1.85	0.41
46:KD:420:SER:O	46:KD:423:GLN:HG3	2.19	0.41
46:KF:20:PHE:HA	46:KF:230:SER:OG	2.20	0.41
46:KF:40:SER:OG	46:KF:41:ASP:N	2.53	0.41
45:KI:210:TYR:CE1	45:KI:227:LEU:HD11	2.55	0.41
45:KK:88:HIS:HE2	45:LK:284:GLU:CD	2.18	0.41
45:KK:309:HIS:HA	45:NK:282:TYR:HE2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KM:384:ILE:O	45:KM:387:VAL:HG22	2.20	0.41
46:KN:67:ASP:OD1	46:KN:68:LEU:N	2.48	0.41
46:KN:233:MET:O	46:KN:236:VAL:HG12	2.20	0.41
46:LB:293:MET:HE3	46:LB:367:PHE:HB2	2.02	0.41
46:LD:189:VAL:HG21	46:LD:378:PHE:CE2	2.55	0.41
45:LG:256:GLN:H	45:LG:256:GLN:HG3	1.67	0.41
45:LG:383:ALA:O	45:LG:386:GLU:HG2	2.20	0.41
45:LI:203:MET:HE3	45:LI:203:MET:HA	2.02	0.41
45:LM:385:ALA:HA	45:LM:388:PHE:HD2	1.84	0.41
46:LN:12:CYS:HB2	49:LN:501:GDP:C8	2.55	0.41
45:MC:188:ILE:HD11	45:MC:391:LEU:HB3	2.02	0.41
45:ME:252:ILE:HD12	45:ME:252:ILE:H	1.85	0.41
46:MF:318:ARG:HH11	46:MF:358:PRO:HG3	1.83	0.41
45:MG:150:GLY:O	45:MG:154:LEU:HG	2.20	0.41
46:MN:285:THR:HB	46:MN:287:PRO:HD2	2.03	0.41
45:NA:120:ASP:HB3	45:NA:124:LYS:HZ1	1.85	0.41
45:NA:120:ASP:HA	45:NA:123:ARG:HG2	2.02	0.41
45:NC:9:VAL:HG22	45:NC:146:GLY:HA2	2.02	0.41
45:NC:426:ALA:O	45:NC:430:LYS:HG2	2.20	0.41
46:ND:111:GLU:OE1	46:ND:111:GLU:N	2.50	0.41
46:NF:65:LEU:HD11	46:NF:85:PHE:CD2	2.55	0.41
46:NH:64:ILE:HD12	46:NH:120:VAL:HG12	2.02	0.41
46:NH:109:GLY:O	46:NH:113:ILE:HG23	2.19	0.41
45:NK:229:ARG:NH1	45:NK:366:GLY:HA2	2.35	0.41
46:NL:396:HIS:CD2	46:NL:397:TRP:HD1	2.38	0.41
45:NM:21:TRP:CE2	45:NM:65:ALA:HB2	2.55	0.41
45:NM:330:ALA:O	45:NM:334:THR:HG23	2.21	0.41
46:NN:54:ALA:HA	46:ON:283:ALA:HB2	2.01	0.41
46:OB:309:ARG:NH2	46:OB:342:VAL:HG23	2.35	0.41
45:OC:223:THR:HG23	45:OC:225:THR:H	1.85	0.41
45:OE:224:TYR:CD1	47:OF:501:GTP:C6	3.07	0.41
45:OE:414:GLU:CD	45:OE:416:GLY:H	2.24	0.41
45:OG:219:ILE:HG22	45:OG:222:PRO:HD3	2.02	0.41
45:OI:287:SER:HB3	45:OI:290:GLU:OE1	2.20	0.41
46:OJ:287:PRO:HA	46:OJ:290:THR:HG22	2.02	0.41
45:PA:260:VAL:HG13	45:PA:265:ILE:O	2.20	0.41
45:PA:377:MET:HE3	45:PA:378:ILE:N	2.35	0.41
45:PC:119:LEU:HD13	45:PC:156:ARG:CZ	2.50	0.41
45:PE:287:SER:N	45:PE:290:GLU:OE2	2.31	0.41
45:PG:145:THR:HG22	47:PG:501:GTP:PG	2.60	0.41
45:PG:221:ARG:HA	46:PH:324:LYS:HZ1	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PH:392:LYS:HA	46:PH:395:LEU:HD12	2.01	0.41
45:PM:33:ASP:OD2	45:PM:34:GLY:N	2.53	0.41
46:PN:20:PHE:HA	46:PN:230:SER:HB2	2.01	0.41
45:QA:68:LEU:HD21	45:QA:118:CYS:SG	2.61	0.41
46:QB:21:TRP:HH2	46:QB:50:TYR:HB3	1.85	0.41
46:QB:22:GLU:HG3	46:QB:81:PHE:CD2	2.55	0.41
46:QB:152:ILE:HG12	46:QB:164:MET:HE3	2.02	0.41
46:QH:22:GLU:HG2	46:QH:81:PHE:CD1	2.55	0.41
45:QI:66:VAL:HG21	45:QI:122:ILE:HD11	2.02	0.41
45:QI:119:LEU:HG	45:QI:156:ARG:NE	2.25	0.41
46:QJ:83:GLN:OE1	46:QJ:83:GLN:N	2.41	0.41
45:QK:430:LYS:O	45:QK:433:GLU:HG3	2.20	0.41
45:QM:55:GLU:OE1	45:QM:61:HIS:NE2	2.52	0.41
45:RA:19:ALA:HA	45:RA:22:GLU:OE1	2.19	0.41
45:RA:71:GLU:HA	45:RA:72:PRO:HD3	1.91	0.41
45:RA:203:MET:HG3	45:RA:384:ILE:HD11	2.01	0.41
45:RC:20:CYS:HA	45:RC:232:ALA:HB1	2.02	0.41
45:RC:430:LYS:O	45:RC:434:GLU:HG2	2.20	0.41
46:RD:303:ALA:HA	46:RD:376:GLU:OE2	2.20	0.41
46:RF:253:LEU:HD12	46:RF:257:LEU:HD13	2.01	0.41
46:RH:318:ARG:HG2	46:RH:354:CYS:SG	2.60	0.41
45:RI:185:TYR:O	45:RI:189:LEU:HD13	2.20	0.41
46:RL:114:ASP:N	46:RL:114:ASP:OD1	2.51	0.41
46:RL:321:MET:HE2	46:RL:363:MET:HG3	2.01	0.41
46:RL:378:PHE:HA	46:RL:381:VAL:HG12	2.01	0.41
45:RM:211:ASP:HA	45:RM:214:ARG:NH1	2.35	0.41
46:RN:10:GLY:O	46:RN:14:ASN:ND2	2.53	0.41
46:SD:292:GLN:OE1	46:SD:298:ASN:ND2	2.53	0.41
46:SD:380:ARG:HA	46:SD:383:GLU:CD	2.40	0.41
46:SF:16:ILE:HD11	49:SF:501:GDP:HN21	1.84	0.41
46:SF:238:CYS:SG	46:SF:239:CYS:N	2.93	0.41
46:SF:393:ALA:HB1	46:SF:394:PHE:CD1	2.55	0.41
45:SI:171:ILE:HA	45:SI:204:LEU:HB2	2.02	0.41
46:SJ:293:MET:HE1	46:SJ:367:PHE:HB3	2.02	0.41
45:SK:102:ASN:ND2	45:SK:411:GLU:OE2	2.34	0.41
46:SL:150:LEU:O	46:SL:154:LYS:HG2	2.19	0.41
46:SL:169:VAL:HG22	46:SL:202:ILE:HB	2.01	0.41
46:SL:303:ALA:HA	46:SL:376:GLU:OE2	2.20	0.41
46:SL:318:ARG:HG2	46:SL:357:PRO:HA	2.00	0.41
45:TA:210:TYR:CE1	45:TA:227:LEU:HD11	2.55	0.41
46:TB:238:CYS:O	46:TB:241:ARG:NH1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TB:294:PHE:CE1	46:TB:333:VAL:HG21	2.55	0.41
45:TC:82:THR:HG23	45:TC:83:TYR:CD1	2.55	0.41
45:TC:119:LEU:O	45:TC:123:ARG:HG2	2.19	0.41
45:TC:331:SER:O	45:TC:335:ILE:HG12	2.20	0.41
46:TD:371:SER:O	46:TD:422:TYR:OH	2.22	0.41
45:TE:152:LEU:HA	45:TE:155:GLU:OE2	2.20	0.41
45:TE:171:ILE:HG23	45:TE:204:LEU:O	2.20	0.41
46:TF:139:LEU:HD22	46:TF:170:VAL:HG12	2.01	0.41
45:TG:102:ASN:OD1	45:TG:105:ARG:N	2.50	0.41
45:TG:205:ASP:OD1	45:TG:303:ALA:HA	2.20	0.41
45:TI:419:SER:O	45:TI:422:ARG:HB2	2.20	0.41
46:TJ:230:SER:HA	46:TJ:233:MET:HE3	2.01	0.41
46:TJ:359:LYS:HA	46:TJ:359:LYS:HD3	1.88	0.41
45:TK:174:SER:OG	45:TK:207:GLU:HB2	2.20	0.41
46:TL:113:ILE:CG2	46:TL:154:LYS:HZ3	2.33	0.41
45:TM:75:ILE:HG23	45:TM:92:LEU:HB3	2.01	0.41
46:TN:293:MET:HE1	46:TN:365:VAL:HG11	2.01	0.41
45:UA:260:VAL:HG13	45:UA:265:ILE:O	2.19	0.41
46:UB:200:MET:HG2	46:UB:268:ILE:HD11	2.02	0.41
46:UB:260:PHE:HE2	45:UC:403:ALA:HA	1.85	0.41
46:UB:324:LYS:O	46:UB:327:ASP:OD1	2.38	0.41
45:UC:2:ARG:HG3	45:UC:133:GLN:NE2	2.33	0.41
45:UC:268:MET:N	45:UC:268:MET:SD	2.93	0.41
45:UE:141:VAL:HG11	45:UE:172:TYR:CD2	2.55	0.41
46:UF:251:ARG:HD3	45:UG:105:ARG:NH1	2.35	0.41
46:UH:234:SER:O	46:UH:241:ARG:NH2	2.53	0.41
46:UH:237:THR:HG22	46:UH:250:LEU:HD21	2.01	0.41
45:UI:88:HIS:HE1	45:UI:90:GLU:HG2	1.81	0.41
45:UI:257:THR:HG21	46:UJ:98:GLY:O	2.20	0.41
45:UI:395:PHE:HZ	45:UI:418:PHE:HB3	1.85	0.41
46:UJ:108:GLU:HA	46:UJ:111:GLU:OE2	2.21	0.41
45:UK:287:SER:O	45:UK:291:ILE:HG13	2.20	0.41
45:UK:326:LYS:HE3	46:UL:220:PRO:HD2	2.02	0.41
45:UK:329:ASN:O	45:UK:332:ILE:HG22	2.19	0.41
46:UL:2:ARG:NH2	46:UL:240:LEU:O	2.53	0.41
46:UL:86:ARG:HG3	46:UL:88:ASP:N	2.35	0.41
46:UN:210:ILE:HD11	46:UN:299:MET:O	2.19	0.41
45:VA:5:ILE:HD11	45:VA:135:PHE:CE1	2.55	0.41
45:VA:18:ASN:O	45:VA:22:GLU:OE1	2.37	0.41
45:VC:89:PRO:HD2	45:WC:280:LYS:HD3	2.02	0.41
46:VD:109:GLY:HA2	46:VD:147:MET:CE	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VE:56:THR:HG23	45:VE:58:ALA:H	1.85	0.41
45:VE:88:HIS:CE1	45:VE:90:GLU:HB3	2.55	0.41
45:VE:433:GLU:O	45:VE:437:ILE:HG12	2.20	0.41
45:VG:150:GLY:O	45:VG:154:LEU:HD23	2.20	0.41
45:VG:280:LYS:HG3	45:VG:280:LYS:O	2.20	0.41
45:VG:318:MET:HB3	45:VG:376:CYS:SG	2.60	0.41
45:VG:329:ASN:HA	45:VG:332:ILE:HG22	2.02	0.41
45:VG:384:ILE:O	45:VG:387:VAL:HG22	2.20	0.41
46:VJ:222:TYR:CD1	49:VJ:501:GDP:C6	3.07	0.41
45:VK:183:GLU:N	45:VK:183:GLU:OE1	2.35	0.41
46:VL:175:VAL:HG23	46:VL:175:VAL:O	2.20	0.41
46:VL:395:LEU:O	46:VL:399:THR:HG23	2.20	0.41
45:VM:60:LYS:HD3	45:WM:283:HIS:CG	2.54	0.41
45:VM:223:THR:HG23	45:VM:225:THR:H	1.85	0.41
46:VN:294:PHE:CE1	46:VN:333:VAL:HG21	2.55	0.41
45:WC:18:ASN:O	45:WC:22:GLU:OE1	2.38	0.41
45:WC:307:PRO:HD2	45:WC:308:ARG:HH12	1.85	0.41
45:WC:430:LYS:HA	45:WC:433:GLU:OE2	2.20	0.41
46:WD:317:PHE:CD2	46:WD:365:VAL:HG22	2.55	0.41
46:WD:344:TRP:HB3	46:WD:430:ALA:HB2	2.02	0.41
46:WF:167:PHE:CE2	46:WF:200:MET:HG3	2.55	0.41
45:WG:73:THR:O	45:WG:77:GLU:OE1	2.37	0.41
45:WM:75:ILE:HG22	45:WM:79:ARG:NH1	2.35	0.41
45:DC:103:PHE:H	45:DC:408:TYR:HE1	1.66	0.41
45:DC:226:ASN:ND2	45:DC:367:ASP:OD2	2.53	0.41
45:DC:411:GLU:OE1	45:DC:411:GLU:N	2.52	0.41
19:1J:122:ARG:NH1	45:IE:217:LEU:O	2.53	0.41
21:1L:45:ARG:HB3	46:BJ:362:LYS:HE2	2.01	0.41
23:1O:177:LYS:HD2	46:UD:362:LYS:NZ	2.34	0.41
25:1R:400:PRO:HB2	46:ED:218:THR:CG2	2.50	0.41
26:1W:106:PHE:HD2	46:LF:362:LYS:HZ1	1.66	0.41
31:2I:98:ILE:HG12	46:GF:337:ASN:ND2	2.35	0.41
20:2K:437:MET:SD	45:GE:279:GLU:HA	2.60	0.41
23:3O:406:ARG:NH1	46:UH:276:ARG:NH1	2.68	0.41
34:4R:246:GLN:HG3	45:BE:58:ALA:HB1	2.02	0.41
35:4S:187:LEU:O	35:4S:190:MET:HG2	2.20	0.41
36:5A:49:LYS:HB3	36:5A:49:LYS:HE2	1.68	0.41
36:5C:47:SER:O	36:5C:49:LYS:HD3	2.20	0.41
36:5C:129:GLY:HA2	46:NL:361:LEU:HD22	2.02	0.41
37:5E:96:TYR:O	37:5E:100:VAL:HG22	2.20	0.41
37:5G:201:THR:HA	37:5G:204:LYS:HE3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:5R:478:ASN:ND2	34:5R:479:PRO:HD2	2.35	0.41
35:5S:211:ASN:HB3	35:5S:217:LEU:HD11	2.01	0.41
40:6G:137:GLN:HB2	45:VG:338:LYS:NZ	2.35	0.41
40:6G:144:LYS:HA	40:6G:144:LYS:HD2	1.90	0.41
40:6G:245:SER:OG	40:6G:248:LYS:HD2	2.20	0.41
41:6H:348:ASN:HA	45:FI:82:THR:HG21	2.01	0.41
34:6R:242:ASN:O	45:BM:58:ALA:HB2	2.20	0.41
34:7R:78:ILE:HD12	34:7R:78:ILE:H	1.86	0.41
34:7R:553:ILE:HA	34:7R:556:ILE:HG22	2.01	0.41
45:AA:398:MET:CE	46:AB:346:PRO:HD2	2.49	0.41
46:AB:229:VAL:HG12	46:AB:233:MET:CE	2.50	0.41
45:AC:167:LEU:HG	45:AC:200:VAL:HB	2.01	0.41
45:AC:384:ILE:O	45:AC:387:VAL:HG22	2.20	0.41
46:AD:131:GLN:O	46:AD:163:ILE:HG12	2.20	0.41
45:AE:164:LYS:HA	45:AE:164:LYS:HD3	1.78	0.41
45:AG:407:TRP:HH2	46:AH:254:ALA:HB1	1.85	0.41
46:AH:73:MET:CE	46:AH:92:PHE:HB3	2.50	0.41
45:AI:176:GLN:NE2	45:AI:177:VAL:HG23	2.35	0.41
45:AI:377:MET:SD	45:AI:379:SER:HB3	2.61	0.41
46:AL:289:LEU:HD23	46:AL:289:LEU:HA	1.79	0.41
45:AM:56:THR:HG21	45:AM:60:LYS:HG2	2.03	0.41
45:BA:430:LYS:O	45:BA:433:GLU:HG2	2.20	0.41
46:BB:6:HIS:O	46:BB:63:ALA:HA	2.20	0.41
46:BB:238:CYS:SG	46:BB:318:ARG:HD3	2.60	0.41
45:BE:262:TYR:OH	46:BH:391:ARG:O	2.30	0.41
45:BG:222:PRO:C	46:BH:324:LYS:HZ3	2.23	0.41
46:BH:20:PHE:O	46:BH:24:ILE:HG12	2.19	0.41
45:BI:205:ASP:CG	45:BI:304:LYS:H	2.23	0.41
46:BJ:215:LEU:HD21	46:BJ:273:LEU:HD12	2.02	0.41
46:BL:16:ILE:HD13	46:BL:226:ASN:OD1	2.20	0.41
46:BL:274:THR:HB	46:BL:282:ARG:HH11	1.83	0.41
45:BM:100:ALA:HA	46:BN:252:LYS:CG	2.50	0.41
45:BM:243:ARG:HG3	45:BM:244:PHE:CD2	2.55	0.41
45:BM:319:TYR:HE1	45:BM:328:VAL:HG13	1.84	0.41
46:BN:186:THR:HA	46:BN:189:VAL:HG12	2.02	0.41
46:BN:201:VAL:HG23	46:BN:301:CYS:SG	2.60	0.41
46:CB:238:CYS:SG	46:CB:318:ARG:HD2	2.60	0.41
46:CB:285:THR:OG1	46:CB:287:PRO:HD2	2.20	0.41
46:CD:141:GLY:HA3	49:CD:501:GDP:PB	2.60	0.41
46:CD:345:ILE:HG13	45:CE:398:MET:SD	2.60	0.41
46:CF:201:VAL:HG22	46:CF:266:PHE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CH:8:GLN:HE22	46:CH:17:GLY:HA3	1.84	0.41
45:CI:121:ARG:NH1	45:CI:124:LYS:HG3	2.35	0.41
46:CL:232:ALA:HB1	46:CL:268:ILE:HD12	2.02	0.41
45:CM:174:SER:HB3	45:CM:207:GLU:OE2	2.20	0.41
45:CM:207:GLU:CD	45:CM:304:LYS:HZ2	2.23	0.41
46:CN:69:GLU:HA	46:CN:70:PRO:HD3	1.88	0.41
46:CN:273:LEU:O	46:CN:292:GLN:NE2	2.44	0.41
46:DB:391:ARG:HA	46:DB:391:ARG:HD2	1.80	0.41
45:DE:71:GLU:HA	45:DE:72:PRO:HD3	1.90	0.41
45:DI:37:PRO:O	45:DI:38:SER:OG	2.25	0.41
45:DI:288:VAL:O	45:DI:291:ILE:HG22	2.20	0.41
45:DI:387:VAL:HG12	45:DI:390:ARG:HH22	1.84	0.41
45:DK:101:ASN:HA	45:DK:144:GLY:H	1.84	0.41
45:DK:169:PHE:CD1	45:DK:202:VAL:HB	2.55	0.41
45:EA:319:TYR:CE2	45:EA:328:VAL:HG22	2.55	0.41
45:EC:97:GLU:O	45:EC:110:ILE:HD12	2.20	0.41
45:EC:137:VAL:HG12	45:EC:167:LEU:O	2.20	0.41
45:EC:269:LEU:HB2	45:EC:301:MET:HE1	2.01	0.41
45:EE:194:LEU:O	45:EE:198:THR:HG22	2.19	0.41
45:EE:233:GLN:HE21	45:EE:233:GLN:HB3	1.74	0.41
45:EE:278:ALA:HA	45:EE:281:ALA:HB3	2.01	0.41
46:EH:175:VAL:O	46:EH:175:VAL:HG23	2.20	0.41
45:EI:206:ASN:OD1	47:EI:501:GTP:N2	2.51	0.41
45:EI:277:SER:O	45:EI:281:ALA:N	2.53	0.41
46:EJ:258:ILE:HG13	46:EJ:258:ILE:O	2.20	0.41
45:EK:287:SER:O	45:EK:291:ILE:HG23	2.20	0.41
45:EK:311:LYS:HE3	45:EK:342:GLN:HG3	2.02	0.41
46:EL:16:ILE:HD13	46:EL:226:ASN:OD1	2.19	0.41
46:EL:271:ALA:HB1	46:EL:272:PRO:HA	2.01	0.41
45:EM:107:HIS:ND1	45:EM:107:HIS:O	2.53	0.41
45:EM:260:VAL:HG13	45:EM:265:ILE:O	2.20	0.41
45:EM:331:SER:O	45:EM:335:ILE:HG12	2.20	0.41
46:EN:274:THR:HB	46:EN:282:ARG:NH1	2.35	0.41
45:FC:208:ALA:O	45:FC:212:ILE:HG12	2.20	0.41
46:FF:310:TYR:HB2	46:FF:341:PHE:CD2	2.55	0.41
45:FI:74:VAL:HA	45:FI:77:GLU:OE1	2.20	0.41
46:FJ:8:GLN:HE21	46:FJ:14:ASN:HA	1.85	0.41
45:FK:21:TRP:HZ2	45:FK:65:ALA:HB2	1.85	0.41
45:FK:141:VAL:HG21	45:FK:172:TYR:HD1	1.85	0.41
45:FK:217:LEU:HD22	45:FK:367:ASP:HB3	2.02	0.41
45:FK:326:LYS:HE2	46:FN:212:PHE:HZ	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FM:274:PRO:HG3	45:FM:286:LEU:HD12	2.02	0.41
46:FN:49:VAL:HG21	46:FN:241:ARG:HG2	2.01	0.41
46:FN:262:ARG:NH1	46:FN:421:GLU:OE1	2.54	0.41
45:GA:102:ASN:HB3	45:GA:105:ARG:HE	1.85	0.41
46:GB:36:TYR:HB2	46:GB:59:TYR:CE1	2.55	0.41
46:GD:20:PHE:HA	46:GD:230:SER:HB2	2.02	0.41
46:GD:114:ASP:N	46:GD:114:ASP:OD1	2.52	0.41
46:GD:295:ASP:OD1	46:GD:297:LYS:HG2	2.19	0.41
46:GH:268:ILE:O	46:GH:300:MET:HB2	2.20	0.41
45:GI:220:GLU:HG2	45:GI:221:ARG:HG2	2.02	0.41
46:GJ:60:VAL:HG21	46:HJ:281:TYR:OH	2.20	0.41
46:GL:274:THR:HG21	46:GL:279:GLN:HA	2.02	0.41
45:GM:67:PHE:HB2	45:GM:92:LEU:HG	2.01	0.41
45:GM:88:HIS:O	45:GM:91:GLN:HG2	2.20	0.41
45:GM:212:ILE:HD11	45:GM:300:ASN:HA	2.02	0.41
46:GN:11:GLN:O	46:GN:15:GLN:HG2	2.20	0.41
46:GN:91:VAL:HG21	46:GN:116:VAL:HB	2.01	0.41
45:HA:156:ARG:HD3	45:HA:156:ARG:HA	1.92	0.41
45:HA:268:MET:HE1	45:HA:378:ILE:HG22	2.02	0.41
45:HA:326:LYS:HD2	46:HD:208:TYR:CD1	2.54	0.41
45:HA:352:LYS:NZ	46:HD:178:THR:HG23	2.35	0.41
45:HC:107:HIS:ND1	45:HC:107:HIS:O	2.53	0.41
45:HC:434:GLU:O	45:HC:437:ILE:HG12	2.20	0.41
45:HE:226:ASN:ND2	45:HE:367:ASP:OD2	2.53	0.41
45:HE:235:ILE:O	45:HE:239:THR:HG22	2.21	0.41
46:HF:34:GLY:O	46:HF:58:ARG:HA	2.20	0.41
45:HG:201:ALA:HB3	45:HG:267:PHE:HD1	1.85	0.41
46:HJ:105:HIS:CD2	46:HJ:150:LEU:HB2	2.55	0.41
46:HJ:345:ILE:HG23	46:HJ:345:ILE:O	2.20	0.41
46:HN:322:SER:O	46:HN:325:GLU:HG3	2.20	0.41
45:IA:117:LEU:O	45:IA:121:ARG:HG2	2.21	0.41
46:IB:21:TRP:CH2	46:IB:50:TYR:HB3	2.54	0.41
45:IC:88:HIS:CE1	45:IC:90:GLU:HG3	2.55	0.41
46:ID:114:ASP:O	46:ID:117:LEU:HG	2.19	0.41
46:ID:318:ARG:CZ	46:ID:358:PRO:HG3	2.50	0.41
45:IE:377:MET:SD	45:IE:379:SER:HB3	2.61	0.41
46:IF:271:ALA:HB3	46:IF:365:VAL:HB	2.02	0.41
45:IG:171:ILE:HG23	45:IG:204:LEU:O	2.20	0.41
45:IG:200:VAL:HG13	45:IG:268:MET:CE	2.50	0.41
46:IH:290:THR:O	46:IH:293:MET:HG2	2.20	0.41
46:IJ:69:GLU:HA	46:IJ:70:PRO:HD3	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IJ:122:LYS:HE3	46:IJ:122:LYS:HB2	1.77	0.41
46:IL:97:ALA:HA	46:IL:103:LYS:HE2	2.01	0.41
45:JA:71:GLU:HA	45:JA:72:PRO:HD3	1.88	0.41
46:JB:9:GLY:HA2	46:JB:66:MET:O	2.20	0.41
45:JC:430:LYS:HE2	45:JC:430:LYS:HB2	1.82	0.41
46:JD:149:THR:HA	46:JD:152:ILE:HD12	2.02	0.41
45:JE:296:PHE:HE2	45:JE:335:ILE:HG21	1.84	0.41
45:JI:28:HIS:NE2	45:JI:48:ALA:O	2.50	0.41
45:JI:149:LEU:O	45:JI:153:LEU:HD23	2.20	0.41
45:JK:117:LEU:O	45:JK:121:ARG:HG2	2.19	0.41
46:JL:330:MET:HB3	46:JL:349:ILE:HD12	2.02	0.41
46:JN:389:PHE:CE1	46:JN:395:LEU:HD21	2.55	0.41
45:KA:154:LEU:HD13	45:KA:197:HIS:HB2	2.02	0.41
46:KB:134:GLN:HA	46:KB:165:GLU:O	2.21	0.41
45:KE:223:THR:OG1	45:KE:224:TYR:N	2.53	0.41
45:KE:324:VAL:HG23	45:KE:327:ASP:HB2	2.02	0.41
45:KE:329:ASN:HA	45:KE:332:ILE:HG12	2.01	0.41
45:KM:93:ILE:HG22	45:KM:114:ILE:HD11	2.02	0.41
46:KN:6:HIS:HE1	46:KN:8:GLN:HB3	1.85	0.41
46:KN:66:MET:HA	46:KN:91:VAL:HG23	2.02	0.41
45:LA:71:GLU:HA	45:LA:72:PRO:HD3	1.88	0.41
45:LA:217:LEU:HB3	45:LA:219:ILE:HG13	2.02	0.41
45:LI:221:ARG:HG3	45:LI:221:ARG:NH1	2.35	0.41
45:LK:222:PRO:HG2	46:LL:324:LYS:HE2	2.03	0.41
46:LL:221:THR:HG23	46:LL:224:ASP:H	1.85	0.41
46:LN:6:HIS:HD2	46:LN:7:ILE:N	2.18	0.41
46:LN:276:ARG:HG3	46:LN:276:ARG:HH11	1.85	0.41
45:MA:356:ASN:OD1	45:MA:357:TYR:N	2.53	0.41
46:MB:178:THR:HG22	46:MB:179:VAL:H	1.84	0.41
46:MD:110:ALA:O	46:MD:113:ILE:HG22	2.20	0.41
46:MF:372:THR:HA	46:MF:422:TYR:CE2	2.55	0.41
45:MI:178:SER:OG	46:MJ:347:ASN:HB3	2.20	0.41
46:MJ:345:ILE:HG23	46:MJ:345:ILE:O	2.20	0.41
45:NA:330:ALA:O	45:NA:334:THR:HG23	2.20	0.41
46:NB:64:ILE:HA	46:NB:89:ASN:HB3	2.00	0.41
45:NC:258:ASN:OD1	45:NC:352:LYS:HE3	2.19	0.41
46:ND:178:THR:HG22	46:ND:180:VAL:N	2.32	0.41
45:NE:398:MET:SD	46:NF:345:ILE:HD12	2.60	0.41
45:NG:287:SER:O	45:NG:291:ILE:HG12	2.20	0.41
46:NH:385:PHE:HE2	46:NH:412:GLU:HB3	1.85	0.41
45:NI:54:SER:HB3	45:NI:64:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NI:285:GLN:N	45:NI:285:GLN:OE1	2.52	0.41
46:NJ:97:ALA:HB3	46:NJ:143:THR:HB	2.02	0.41
45:NK:288:VAL:HA	45:NK:291:ILE:HG12	2.01	0.41
45:NM:176:GLN:OE1	45:NM:304:LYS:NZ	2.52	0.41
46:NN:113:ILE:O	46:NN:117:LEU:HG	2.20	0.41
45:OA:174:SER:HB2	45:OA:177:VAL:O	2.20	0.41
45:OA:199:ASP:OD1	45:OA:256:GLN:HG3	2.20	0.41
46:OB:109:GLY:O	46:OB:113:ILE:HB	2.19	0.41
46:OD:11:GLN:O	46:OD:15:GLN:HG2	2.19	0.41
45:OE:102:ASN:OD1	45:OE:105:ARG:N	2.48	0.41
45:OE:371:VAL:HG12	45:OE:373:ARG:H	1.85	0.41
45:OG:9:VAL:HA	45:OG:68:LEU:O	2.20	0.41
46:OH:117:LEU:HA	46:OH:120:VAL:HG12	2.01	0.41
46:OH:249:ASP:O	46:OH:253:LEU:HG	2.20	0.41
46:OH:359:LYS:HD2	46:OH:360:GLY:N	2.34	0.41
45:OK:248:LEU:HB2	45:OK:355:ILE:H	1.85	0.41
45:OM:402:ARG:HA	45:OM:402:ARG:HD3	1.91	0.41
45:PC:119:LEU:HD12	45:PC:156:ARG:HG2	2.02	0.41
46:PD:201:VAL:HG12	46:PD:266:PHE:O	2.19	0.41
46:PF:240:LEU:HD12	46:PF:249:ASP:HB2	2.01	0.41
45:PG:182:VAL:HG22	45:PG:404:PHE:CE2	2.54	0.41
45:PI:222:PRO:HG2	46:PJ:324:LYS:HG2	2.01	0.41
45:PI:226:ASN:O	45:PI:230:LEU:HD23	2.20	0.41
46:PJ:148:GLY:O	46:PJ:152:ILE:HG13	2.19	0.41
45:PK:56:THR:HG23	45:PK:58:ALA:H	1.84	0.41
45:PK:319:TYR:CB	45:PK:323:VAL:HG11	2.50	0.41
46:PL:87:PRO:HA	46:PL:90:PHE:CD2	2.55	0.41
46:PL:185:ALA:O	46:PL:189:VAL:HG12	2.19	0.41
46:PL:203:ASP:HB3	46:PL:205:GLU:CD	2.41	0.41
46:PN:5:VAL:HG23	46:PN:7:ILE:HD11	2.02	0.41
46:PN:119:VAL:HA	46:PN:122:LYS:HG2	2.02	0.41
46:PN:194:GLU:HG3	46:PN:262:ARG:NH2	2.34	0.41
46:PN:282:ARG:HB3	46:PN:282:ARG:CZ	2.50	0.41
45:QA:352:LYS:HE2	45:QA:352:LYS:HB2	1.86	0.41
46:QB:105:HIS:NE2	46:QB:150:LEU:HB3	2.34	0.41
46:QB:153:SER:O	46:QB:157:GLU:OE1	2.37	0.41
46:QD:262:ARG:HG3	46:QD:263:LEU:HD12	2.01	0.41
46:QD:318:ARG:O	46:QD:363:MET:HA	2.21	0.41
45:QE:356:ASN:OD1	45:QE:357:TYR:N	2.53	0.41
46:QF:226:ASN:HD21	49:QF:501:GDP:HN1	1.68	0.41
45:QG:293:ASN:O	45:QG:297:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QK:258:ASN:CB	45:QK:352:LYS:HD2	2.44	0.41
46:QL:113:ILE:HD11	46:QL:151:LEU:HD12	2.01	0.41
45:QM:254:GLU:HG2	46:QN:98:GLY:HA2	2.00	0.41
46:RB:3:GLU:HG3	46:RB:62:ARG:HH12	1.85	0.41
46:RD:240:LEU:HD11	46:RD:249:ASP:HA	2.03	0.41
46:RD:387:ALA:O	46:RD:390:ARG:NH2	2.53	0.41
45:RE:226:ASN:HA	45:RE:229:ARG:NH1	2.35	0.41
45:RG:81:GLY:O	45:RG:84:ARG:HG3	2.19	0.41
45:RG:261:PRO:HB2	45:RG:265:ILE:HD11	2.02	0.41
45:RG:324:VAL:HG11	45:RG:326:LYS:HZ3	1.85	0.41
46:RJ:11:GLN:HB3	46:RJ:72:THR:HG21	2.02	0.41
45:RK:5:ILE:HB	45:RK:135:PHE:HD2	1.83	0.41
45:RK:317:MET:HA	45:RK:376:CYS:O	2.20	0.41
46:RL:3:GLU:HG3	46:RL:62:ARG:NH1	2.34	0.41
46:RL:327:ASP:O	46:RL:330:MET:HG2	2.21	0.41
45:SA:19:ALA:HA	45:SA:22:GLU:OE1	2.19	0.41
45:SA:252:ILE:HA	45:SA:255:PHE:CE2	2.55	0.41
45:SA:328:VAL:HG11	45:SA:353:VAL:HG21	2.01	0.41
46:SB:45:GLU:OE1	46:SB:46:ARG:HG2	2.20	0.41
46:SB:305:PRO:HB2	46:SB:310:TYR:CE2	2.55	0.41
45:SC:5:ILE:HB	45:SC:135:PHE:CD1	2.55	0.41
46:SD:251:ARG:O	46:SD:255:VAL:HG12	2.20	0.41
45:SG:9:VAL:HG23	45:SG:139:ASN:HB3	2.00	0.41
45:SG:68:LEU:HD21	45:SG:118:CYS:SG	2.60	0.41
46:SH:255:VAL:HA	45:SI:407:TRP:CH2	2.55	0.41
45:SI:413:MET:HG2	45:SI:417:GLU:HG3	2.02	0.41
46:SJ:200:MET:SD	46:SJ:268:ILE:HG23	2.60	0.41
45:SK:54:SER:OG	45:SK:62:VAL:HB	2.20	0.41
45:SK:203:MET:HE1	45:SK:268:MET:N	2.36	0.41
46:SL:278:SER:HA	46:SL:281:TYR:HB2	2.01	0.41
45:SM:419:SER:O	45:SM:422:ARG:N	2.54	0.41
45:TA:141:VAL:HG12	45:TA:171:ILE:O	2.20	0.41
45:TA:268:MET:HB2	45:TA:379:SER:O	2.20	0.41
46:TF:208:TYR:CE1	46:TF:225:LEU:HD11	2.55	0.41
45:TG:120:ASP:C	45:TG:124:LYS:HZ2	2.23	0.41
45:TI:35:GLN:NE2	45:TI:60:LYS:HB3	2.35	0.41
45:TI:101:ASN:HD22	45:TI:143:GLY:HA2	1.84	0.41
45:TI:288:VAL:HB	45:TI:373:ARG:NH2	2.34	0.41
46:TL:350:LYS:HG3	45:TM:180:ALA:HA	2.02	0.41
46:TL:362:LYS:HD3	46:TL:362:LYS:N	2.36	0.41
46:TN:312:THR:HG22	46:TN:370:ASN:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UA:172:TYR:HD2	45:UA:203:MET:HG3	1.84	0.41
45:UC:215:ARG:HG3	45:UC:216:ASN:OD1	2.19	0.41
45:UC:334:THR:O	45:UC:338:LYS:HG2	2.20	0.41
46:UD:377:MET:O	46:UD:381:VAL:HG22	2.19	0.41
45:UE:2:ARG:HD2	45:UE:242:LEU:O	2.20	0.41
45:UE:352:LYS:NZ	46:UF:179:VAL:H	2.18	0.41
45:UG:2:ARG:O	45:UG:51:THR:HA	2.21	0.41
45:UG:231:ILE:O	45:UG:235:ILE:HG12	2.20	0.41
46:UH:183:TYR:OH	46:UH:388:MET:HB3	2.20	0.41
46:UH:361:LEU:HD23	46:UH:361:LEU:HA	1.90	0.41
45:UI:141:VAL:HB	45:UI:170:THR:HG23	2.01	0.41
46:UN:7:ILE:HD12	46:UN:64:ILE:HB	2.02	0.41
46:UN:288:GLU:O	46:UN:292:GLN:HG2	2.20	0.41
45:VA:209:ILE:HG12	45:VA:302:MET:CE	2.50	0.41
45:VA:260:VAL:HG13	45:VA:260:VAL:O	2.20	0.41
46:VD:210:ILE:HD11	46:VD:299:MET:O	2.20	0.41
45:VE:71:GLU:HA	45:VE:72:PRO:HD3	1.91	0.41
46:VF:4:ILE:HG23	46:VF:131:GLN:HB3	2.01	0.41
45:VG:387:VAL:O	45:VG:391:LEU:HD23	2.19	0.41
46:VH:217:LEU:HD23	46:VH:217:LEU:H	1.83	0.41
45:VI:221:ARG:CZ	46:VJ:322:SER:H	2.33	0.41
46:VJ:208:TYR:HE1	46:VJ:225:LEU:HD11	1.85	0.41
45:VK:178:SER:HB3	46:VL:347:ASN:HD21	1.84	0.41
45:VK:358:GLN:NE2	45:VK:359:PRO:HD2	2.36	0.41
46:VN:392:LYS:N	46:VN:392:LYS:HD3	2.35	0.41
46:WB:44:LEU:HD23	46:WB:44:LEU:HA	1.91	0.41
45:WC:334:THR:HG22	45:WC:338:LYS:NZ	2.35	0.41
46:WD:24:ILE:HD13	46:WD:27:GLU:OE1	2.20	0.41
45:WG:384:ILE:O	45:WG:387:VAL:HG22	2.19	0.41
46:WH:296:ALA:O	46:WH:299:MET:HG2	2.21	0.41
46:WH:396:HIS:NE2	46:WH:397:TRP:CD1	2.88	0.41
46:WJ:172:SER:HA	46:WJ:380:ARG:NH1	2.35	0.41
45:WK:326:LYS:CE	46:WN:220:PRO:HB2	2.49	0.41
46:WL:391:ARG:HA	46:WL:391:ARG:HD2	1.77	0.41
45:WM:21:TRP:CD1	45:WM:67:PHE:HZ	2.38	0.41
46:WN:22:GLU:HG2	46:WN:81:PHE:CD1	2.55	0.41
4:OD:6:ARG:HH12	46:CB:45:GLU:N	2.16	0.41
13:OU:236:LEU:HB2	46:WB:33:THR:HG22	2.01	0.41
1:1A:138:TRP:NE1	45:AE:77:GLU:OE2	2.53	0.41
20:1K:186:LEU:HB3	46:GD:362:LYS:NZ	2.23	0.41
23:1O:189:ILE:HD13	46:UD:276:ARG:NH2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1P:164:THR:HG21	45:TI:372:MET:SD	2.61	0.41
30:2H:168:LYS:NZ	45:MA:57:GLY:HA2	2.35	0.41
31:2I:95:LYS:HG3	46:GF:332:ASN:OD1	2.20	0.41
31:2I:97:LYS:HD3	46:GF:337:ASN:OD1	2.20	0.41
20:2K:429:HIS:CE1	45:GE:282:TYR:CE2	3.08	0.41
21:2L:405:LYS:HB3	46:CN:320:ARG:NH1	2.34	0.41
23:2O:423:HIS:CE1	45:VA:372:MET:SD	3.13	0.41
34:4R:408:ALA:N	46:EF:218:THR:HG21	2.35	0.41
15:4X:93:ALA:HA	15:4X:96:ARG:HE	1.85	0.41
36:5B:102:TYR:HA	45:KE:393:HIS:CE1	2.55	0.41
37:5E:154:TYR:CE1	46:ND:35:THR:HG23	2.54	0.41
10:5Q:14:LEU:HD12	10:5Q:25:TRP:CE2	2.55	0.41
10:5Q:115:LYS:NZ	45:AK:264:ARG:HD3	2.35	0.41
40:6G:89:PHE:CE2	45:UK:89:PRO:HB2	2.55	0.41
41:6H:320:SER:HA	41:6H:323:TYR:HD1	1.84	0.41
10:6Q:94:LEU:HD13	10:6Q:100:ARG:HH22	1.84	0.41
34:6R:145:ILE:HG21	34:6R:150:ILE:HD11	2.01	0.41
45:AA:419:SER:O	45:AA:423:GLU:OE1	2.38	0.41
46:AB:137:HIS:NE2	46:AB:166:THR:OG1	2.54	0.41
46:AB:178:THR:HG22	46:AB:180:VAL:H	1.85	0.41
45:AE:17:GLY:HA2	45:AE:20:CYS:SG	2.60	0.41
45:AE:256:GLN:HB3	46:AH:397:TRP:CH2	2.56	0.41
45:AG:88:HIS:HB3	45:AG:91:GLN:HG2	2.02	0.41
45:AG:272:TYR:HD1	45:AG:275:ILE:HD11	1.86	0.41
46:AH:229:VAL:HG12	46:AH:233:MET:HE2	2.02	0.41
46:AJ:403:MET:HB2	46:AJ:407:GLU:OE2	2.20	0.41
46:AL:105:HIS:HD1	46:AL:106:TYR:HD1	1.68	0.41
46:AL:201:VAL:O	46:AL:202:ILE:HD13	2.20	0.41
45:AM:56:THR:HG23	45:AM:58:ALA:H	1.85	0.41
46:AN:47:ILE:CG2	46:AN:51:TYR:HB2	2.50	0.41
46:AN:317:PHE:CD1	46:AN:365:VAL:HG22	2.55	0.41
46:BB:69:GLU:HA	46:BB:70:PRO:HD3	1.86	0.41
46:BD:173:PRO:HD2	46:BD:174:LYS:HZ3	1.85	0.41
45:BE:210:TYR:HA	46:BF:324:LYS:NZ	2.35	0.41
46:BF:316:LEU:HB2	46:BF:366:THR:HG22	2.03	0.41
46:BF:345:ILE:O	46:BF:345:ILE:HG13	2.19	0.41
45:BG:414:GLU:OE1	45:BG:416:GLY:N	2.47	0.41
46:BH:230:SER:HA	46:BH:233:MET:HG2	2.02	0.41
46:BL:4:ILE:HD11	46:BL:131:GLN:HG3	2.02	0.41
45:CA:136:LEU:HD21	45:CA:138:PHE:CZ	2.55	0.41
46:CB:164:MET:HG2	46:CB:196:ALA:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CB:392:LYS:HA	46:CB:395:LEU:HD13	2.01	0.41
45:CC:388:PHE:HD2	45:CC:428:LEU:HD22	1.84	0.41
46:CF:325:GLU:OE1	45:CG:221:ARG:CZ	2.69	0.41
45:CG:368:LEU:HD12	45:CG:368:LEU:HA	1.93	0.41
46:CH:330:MET:HB3	46:CH:349:ILE:CD1	2.45	0.41
45:CI:324:VAL:HG12	45:CI:326:LYS:HG2	2.02	0.41
45:CK:394:LYS:HE3	45:CK:394:LYS:HB2	1.90	0.41
45:DG:24:PHE:HA	45:DG:27:GLU:CD	2.41	0.41
46:DH:86:ARG:NH2	46:EH:281:TYR:O	2.52	0.41
45:DK:195:LEU:HD12	45:DK:267:PHE:HE1	1.86	0.41
45:DK:225:THR:HG22	45:DK:229:ARG:HE	1.85	0.41
46:DL:156:ARG:HD3	46:DL:164:MET:CE	2.50	0.41
46:DL:190:HIS:HD2	46:DL:411:ALA:HA	1.85	0.41
46:DL:346:PRO:HG2	45:DM:394:LYS:HZ2	1.84	0.41
45:DM:311:LYS:HB3	45:DM:311:LYS:HE3	1.86	0.41
46:EB:132:GLY:HA3	46:EB:163:ILE:HG13	2.01	0.41
46:ED:156:ARG:NH2	46:ED:160:PRO:O	2.53	0.41
46:EF:2:ARG:NH1	45:EG:71:GLU:HG2	2.35	0.41
45:EG:90:GLU:HG2	45:EG:121:ARG:CZ	2.50	0.41
46:EH:113:ILE:HA	46:EH:116:VAL:HG12	2.02	0.41
46:EH:181:GLU:HG2	46:EH:182:PRO:HD3	2.02	0.41
45:EK:259:LEU:HD23	45:EK:314:ALA:HB1	2.02	0.41
46:EN:232:ALA:HB1	46:EN:268:ILE:HD12	2.02	0.41
45:FC:98:ASP:OD2	45:FC:100:ALA:N	2.33	0.41
45:FE:323:VAL:HG13	45:FE:373:ARG:HG2	2.02	0.41
46:FF:60:VAL:HG21	46:FF:86:ARG:NE	2.35	0.41
46:FF:391:ARG:HD2	46:FF:391:ARG:HA	1.82	0.41
45:FG:179:THR:O	46:FH:350:LYS:HA	2.20	0.41
45:FI:171:ILE:HG22	45:FI:204:LEU:HB2	2.02	0.41
46:FL:201:VAL:HG12	46:FL:266:PHE:O	2.21	0.41
45:GA:221:ARG:HH21	46:GB:321:MET:HB3	1.84	0.41
45:GE:328:VAL:O	45:GE:332:ILE:HG12	2.20	0.41
45:GK:348:PRO:HD3	46:GN:388:MET:CE	2.50	0.41
46:GL:173:PRO:HG2	46:GL:380:ARG:HD3	2.01	0.41
46:GN:65:LEU:HD22	46:GN:90:PHE:CE1	2.55	0.41
46:GN:190:HIS:CE1	46:GN:411:ALA:HA	2.55	0.41
46:GN:274:THR:HB	46:GN:282:ARG:HH11	1.84	0.41
46:HB:145:SER:HB2	46:HB:188:SER:HB3	2.01	0.41
46:HB:238:CYS:HA	46:HB:241:ARG:CZ	2.50	0.41
46:HD:8:GLN:OE1	46:HD:14:ASN:HA	2.21	0.41
46:HD:175:VAL:O	46:HD:175:VAL:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HE:21:TRP:HZ2	45:HE:65:ALA:HB2	1.86	0.41
45:HE:100:ALA:HB1	46:HF:252:LYS:HA	2.02	0.41
46:HF:273:LEU:H	46:HF:292:GLN:HE22	1.67	0.41
46:HF:302:ALA:HB3	46:HF:377:MET:HE3	2.03	0.41
46:HF:391:ARG:HA	46:HF:391:ARG:HD2	1.78	0.41
46:HH:409:THR:O	46:HH:412:GLU:HG3	2.20	0.41
45:HI:32:PRO:HB3	45:HI:83:TYR:CD1	2.55	0.41
45:HI:88:HIS:HB3	45:HI:91:GLN:HG2	2.00	0.41
45:HI:220:GLU:CD	45:HI:220:GLU:H	2.24	0.41
45:HI:377:MET:HE2	45:HI:379:SER:HB3	2.02	0.41
45:HK:352:LYS:HA	45:HK:352:LYS:HD3	1.92	0.41
46:HL:68:LEU:HD21	46:HL:147:MET:HE1	2.02	0.41
46:HL:178:THR:N	46:HL:181:GLU:OE1	2.52	0.41
46:HN:16:ILE:HD13	46:HN:226:ASN:OD1	2.21	0.41
45:IA:70:LEU:HB3	45:IA:97:GLU:O	2.20	0.41
45:IA:316:SER:HB3	45:IA:378:ILE:CG2	2.50	0.41
46:IB:420:SER:O	46:IB:423:GLN:HG3	2.19	0.41
45:IC:284:GLU:N	45:IC:284:GLU:OE2	2.53	0.41
45:IE:221:ARG:O	45:IE:221:ARG:HG3	2.20	0.41
45:IE:320:ARG:HD2	45:IE:360:PRO:HG3	2.01	0.41
46:IF:105:HIS:CE1	46:IF:150:LEU:HD12	2.55	0.41
45:II:171:ILE:HG23	45:II:204:LEU:O	2.20	0.41
45:II:227:LEU:O	45:II:231:ILE:HG12	2.20	0.41
46:IL:68:LEU:HD21	46:IL:147:MET:CE	2.50	0.41
46:IL:210:ILE:HD11	46:IL:299:MET:O	2.21	0.41
45:IM:60:LYS:NZ	45:IM:62:VAL:HG22	2.35	0.41
45:IM:320:ARG:NH2	45:IM:359:PRO:O	2.54	0.41
45:IM:416:GLY:O	45:IM:419:SER:OG	2.28	0.41
46:IN:31:ASP:HB3	46:IN:37:HIS:CD2	2.55	0.41
46:JB:204:ASN:OD1	46:JB:205:GLU:N	2.54	0.41
46:JD:36:TYR:O	46:JD:37:HIS:ND1	2.53	0.41
46:JD:296:ALA:HB3	46:JD:297:LYS:HZ2	1.85	0.41
46:JF:395:LEU:O	46:JF:399:THR:HG23	2.19	0.41
46:JH:169:VAL:O	46:JH:169:VAL:HG23	2.19	0.41
46:JH:297:LYS:NZ	46:JH:306:ARG:HH12	2.18	0.41
45:JI:21:TRP:CH2	45:JI:63:PRO:HB3	2.55	0.41
45:JI:269:LEU:H	45:JI:269:LEU:HD23	1.85	0.41
45:JK:413:MET:HB2	45:JK:413:MET:HE2	1.95	0.41
46:JL:133:PHE:HB2	46:JL:164:MET:SD	2.60	0.41
46:JL:343:GLU:OE1	46:JL:343:GLU:N	2.46	0.41
45:JM:330:ALA:O	45:JM:334:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JN:6:HIS:O	46:JN:63:ALA:HA	2.18	0.41
46:JN:7:ILE:HD11	46:JN:120:VAL:HG21	2.03	0.41
46:JN:188:SER:O	46:JN:192:LEU:HG	2.20	0.41
45:KA:352:LYS:HA	46:KD:177:ASP:O	2.20	0.41
45:KC:215:ARG:NH2	45:KC:299:ALA:O	2.51	0.41
46:KF:415:MET:O	46:KF:419:VAL:HG23	2.21	0.41
45:KG:317:MET:HE1	45:KG:377:MET:HG3	2.01	0.41
45:KG:328:VAL:O	45:KG:332:ILE:HG12	2.20	0.41
45:KI:96:LYS:HG3	45:KI:97:GLU:OE1	2.21	0.41
46:KJ:324:LYS:O	46:KJ:328:GLU:OE1	2.39	0.41
46:KJ:398:TYR:HB3	46:KJ:403:MET:SD	2.60	0.41
45:KK:188:ILE:HD12	45:KK:425:LEU:HG	2.03	0.41
45:KM:408:TYR:HA	45:KM:411:GLU:OE2	2.20	0.41
46:LB:65:LEU:HD22	46:LB:90:PHE:CE1	2.56	0.41
46:LB:68:LEU:HG	46:LB:147:MET:HE3	2.02	0.41
46:LB:270:PHE:HD2	46:LB:273:LEU:HD21	1.85	0.41
45:LC:265:ILE:HG22	45:LC:380:ASN:HD21	1.85	0.41
45:LE:68:LEU:HD12	45:LE:153:LEU:HD11	2.02	0.41
45:LE:210:TYR:CG	46:LF:324:LYS:NZ	2.88	0.41
46:LH:9:GLY:HA2	46:LH:66:MET:O	2.21	0.41
46:LH:151:LEU:O	46:LH:155:VAL:HG12	2.20	0.41
45:LI:125:LEU:HD12	45:LI:125:LEU:HA	1.90	0.41
46:LL:267:MET:HG3	46:LL:299:MET:HE2	2.02	0.41
45:LM:320:ARG:HD3	45:LM:360:PRO:HG3	2.02	0.41
45:MC:328:VAL:HG11	45:MC:353:VAL:HG21	2.01	0.41
46:MH:105:HIS:CE1	46:MH:150:LEU:HD12	2.55	0.41
46:MH:345:ILE:HG23	46:MH:345:ILE:O	2.20	0.41
45:MI:52:PHE:HZ	45:MI:239:THR:HG21	1.85	0.41
45:MM:117:LEU:HD12	45:MM:117:LEU:H	1.85	0.41
45:NA:326:LYS:HA	45:NA:326:LYS:HD3	1.96	0.41
45:NA:328:VAL:O	45:NA:332:ILE:HG12	2.20	0.41
46:NB:224:ASP:O	46:NB:228:LEU:HD23	2.20	0.41
46:NB:371:SER:O	46:NB:422:TYR:OH	2.30	0.41
45:NC:320:ARG:HG3	45:NC:360:PRO:HG3	2.02	0.41
45:NG:425:LEU:O	45:NG:429:GLU:HG2	2.20	0.41
45:NI:33:ASP:HA	45:NI:85:GLN:HB3	2.01	0.41
45:NI:151:SER:O	45:NI:155:GLU:OE1	2.38	0.41
45:NI:180:ALA:HB3	45:NI:183:GLU:HB3	2.03	0.41
45:NI:220:GLU:HG2	45:NI:221:ARG:CD	2.49	0.41
45:NK:22:GLU:HA	45:NK:25:CYS:SG	2.61	0.41
46:NN:289:LEU:HD13	46:NN:365:VAL:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OA:69:ASP:OD1	45:OA:70:LEU:N	2.52	0.41
45:OA:217:LEU:HB3	45:OA:219:ILE:HG12	2.01	0.41
45:OA:404:PHE:CE1	46:OB:259:PRO:HA	2.55	0.41
46:OB:285:THR:HB	46:OB:287:PRO:HD2	2.02	0.41
46:OB:313:ALA:HB3	46:OB:349:ILE:HG13	2.03	0.41
45:OC:9:VAL:HA	45:OC:68:LEU:O	2.20	0.41
46:OD:293:MET:HE2	46:OD:367:PHE:HB2	2.02	0.41
45:OE:224:TYR:CZ	46:OF:246:LEU:HD21	2.55	0.41
45:OE:317:MET:HE3	45:OE:353:VAL:HG12	2.02	0.41
46:OF:398:TYR:O	46:OF:403:MET:HB2	2.20	0.41
45:OG:326:LYS:HE2	46:OJ:220:PRO:HB2	2.02	0.41
46:OH:52:ASN:ND2	46:OH:62:ARG:HB3	2.35	0.41
46:OJ:372:THR:HA	46:OJ:422:TYR:CE2	2.55	0.41
45:OK:21:TRP:HZ2	45:OK:65:ALA:HB2	1.86	0.41
45:OK:277:SER:H	45:OK:280:LYS:NZ	2.18	0.41
46:OL:117:LEU:HA	46:OL:117:LEU:HD23	1.96	0.41
46:OL:213:ARG:HD3	46:OL:297:LYS:NZ	2.35	0.41
45:OM:421:ALA:O	45:OM:425:LEU:HD23	2.20	0.41
45:PA:117:LEU:O	45:PA:121:ARG:HG2	2.20	0.41
45:PA:324:VAL:HG12	45:PA:326:LYS:HE2	2.01	0.41
45:PA:420:GLU:HA	45:PA:423:GLU:CD	2.40	0.41
46:PB:16:ILE:HD12	46:PB:229:VAL:HG11	2.01	0.41
45:PC:154:LEU:CD2	45:PC:197:HIS:HB3	2.50	0.41
46:PD:209:ASP:HB3	46:PD:213:ARG:NH1	2.32	0.41
46:PD:345:ILE:HG23	46:PD:345:ILE:O	2.20	0.41
45:PE:27:GLU:OE2	45:PE:28:HIS:ND1	2.53	0.41
45:PE:296:PHE:CE2	45:PE:335:ILE:HG21	2.55	0.41
45:PG:71:GLU:HA	45:PG:72:PRO:HD3	1.90	0.41
46:PH:261:PRO:HG2	46:PH:262:ARG:NH1	2.35	0.41
45:PI:387:VAL:HA	45:PI:390:ARG:HG2	2.01	0.41
46:PJ:217:LEU:HD23	46:PJ:219:THR:N	2.30	0.41
46:PL:108:GLU:O	46:PL:111:GLU:HG3	2.20	0.41
45:PM:208:ALA:O	45:PM:212:ILE:HG12	2.20	0.41
45:PM:210:TYR:HE2	46:PN:324:LYS:HG3	1.76	0.41
45:PM:212:ILE:HD13	45:PM:212:ILE:HA	1.92	0.41
46:PN:189:VAL:HA	46:PN:192:LEU:HB3	2.02	0.41
46:PN:286:VAL:HG12	46:PN:329:GLN:OE1	2.20	0.41
45:QA:293:ASN:O	45:QA:297:GLU:HG2	2.20	0.41
46:QB:5:VAL:HG12	46:QB:62:ARG:HD3	2.02	0.41
46:QB:101:TRP:CE3	46:QB:187:LEU:HD23	2.56	0.41
46:QB:168:SER:O	46:QB:201:VAL:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QC:83:TYR:HB3	45:QC:86:LEU:HD12	2.02	0.41
46:QD:35:THR:HB	46:QD:37:HIS:HE1	1.86	0.41
45:QE:269:LEU:HD23	45:QE:379:SER:O	2.21	0.41
46:QF:6:HIS:HB3	46:QF:63:ALA:HB2	2.02	0.41
46:QF:10:GLY:O	46:QF:14:ASN:ND2	2.54	0.41
46:QF:222:TYR:O	46:QF:226:ASN:ND2	2.29	0.41
45:QI:27:GLU:OE2	45:QI:243:ARG:NH1	2.54	0.41
45:QI:225:THR:O	45:QI:229:ARG:HG2	2.20	0.41
46:QJ:50:TYR:CE1	46:QJ:241:ARG:HD3	2.55	0.41
46:QJ:188:SER:O	46:QJ:192:LEU:HD23	2.20	0.41
45:QM:121:ARG:HA	45:QM:124:LYS:NZ	2.36	0.41
45:QM:346:TRP:CD1	46:QN:391:ARG:HG3	2.55	0.41
46:QN:370:ASN:OD1	46:QN:422:TYR:OH	2.38	0.41
46:RB:69:GLU:HA	46:RB:70:PRO:HD3	1.87	0.41
46:RB:86:ARG:NH2	46:SB:282:ARG:HD2	2.27	0.41
46:RD:69:GLU:HA	46:RD:70:PRO:HD3	1.86	0.41
45:RE:271:SER:OG	45:RE:301:MET:HA	2.21	0.41
45:RE:287:SER:O	45:RE:290:GLU:HG2	2.20	0.41
45:RE:387:VAL:HG12	45:RE:390:ARG:NH2	2.29	0.41
45:RG:404:PHE:CD1	45:RG:407:TRP:HZ3	2.34	0.41
46:RH:7:ILE:HG12	46:RH:64:ILE:HD13	2.02	0.41
46:RH:318:ARG:O	46:RH:363:MET:HA	2.19	0.41
46:RJ:3:GLU:OE2	46:RJ:127:CYS:HB2	2.20	0.41
45:RM:182:VAL:HG22	45:RM:182:VAL:O	2.20	0.41
46:SB:26:ASP:O	46:SB:359:LYS:NZ	2.38	0.41
46:SB:156:ARG:NH2	46:SB:160:PRO:O	2.53	0.41
46:SB:267:MET:HE2	46:SB:299:MET:HB3	2.01	0.41
46:SD:226:ASN:HA	46:SD:229:VAL:HG22	2.02	0.41
46:SD:342:VAL:HG13	46:SD:345:ILE:HG22	2.02	0.41
46:SH:262:ARG:NH1	46:SH:421:GLU:OE2	2.54	0.41
45:SI:184:PRO:O	45:SI:188:ILE:HG12	2.19	0.41
45:SI:239:THR:HG23	45:SI:243:ARG:HH21	1.84	0.41
46:SJ:16:ILE:HD13	46:SJ:226:ASN:OD1	2.20	0.41
46:SJ:121:ARG:HH22	46:TJ:336:LYS:HZ2	1.68	0.41
46:SL:289:LEU:HD23	46:SL:289:LEU:HA	1.94	0.41
45:SM:85:GLN:OE1	45:SM:85:GLN:N	2.48	0.41
46:TB:316:LEU:HG	46:TB:352:SER:OG	2.19	0.41
45:TC:384:ILE:O	45:TC:387:VAL:HG22	2.20	0.41
46:TD:325:GLU:O	46:TD:328:GLU:HG2	2.20	0.41
45:TE:419:SER:O	45:TE:423:GLU:OE1	2.39	0.41
46:TH:221:THR:HG23	46:TH:224:ASP:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TJ:200:MET:SD	46:TJ:268:ILE:HD13	2.60	0.41
46:TJ:304:ASP:HB3	46:TJ:307:HIS:CG	2.55	0.41
46:TL:208:TYR:CE2	46:TL:225:LEU:HD11	2.54	0.41
46:TL:421:GLU:O	46:TL:424:GLN:HG2	2.19	0.41
45:UE:88:HIS:CE1	45:UE:90:GLU:HG3	2.55	0.41
46:UF:117:LEU:HA	46:UF:120:VAL:HG12	2.03	0.41
46:UH:86:ARG:HB2	46:UH:89:ASN:OD1	2.21	0.41
46:UH:207:LEU:HD13	46:UH:210:ILE:HD11	2.02	0.41
46:UH:286:VAL:HG12	46:UH:329:GLN:HG3	2.01	0.41
46:UJ:2:ARG:HH12	46:UJ:240:LEU:CG	2.28	0.41
45:UK:141:VAL:HG22	45:UK:187:SER:HA	2.01	0.41
45:UM:2:ARG:HA	45:UM:133:GLN:HE22	1.85	0.41
45:UM:271:SER:HB2	45:UM:301:MET:HA	2.02	0.41
46:UN:318:ARG:HD3	46:UN:358:PRO:HD2	2.02	0.41
45:VA:205:ASP:OD1	45:VA:303:ALA:HA	2.20	0.41
46:VB:50:TYR:OH	46:VB:237:THR:HG21	2.20	0.41
45:VC:297:GLU:HB3	45:VC:300:ASN:ND2	2.36	0.41
46:VD:24:ILE:HG21	46:VD:50:TYR:HD2	1.85	0.41
46:VD:396:HIS:CD2	46:VD:397:TRP:CD1	3.09	0.41
45:VE:329:ASN:ND2	46:VH:175:VAL:HG12	2.35	0.41
45:VE:390:ARG:O	45:VE:394:LYS:HG3	2.20	0.41
45:VG:184:PRO:O	45:VG:188:ILE:HD12	2.20	0.41
46:VH:200:MET:HG2	46:VH:268:ILE:HG23	2.02	0.41
45:VK:289:ALA:O	45:VK:292:THR:HG22	2.20	0.41
45:VK:296:PHE:HE1	45:VK:377:MET:HG3	1.85	0.41
46:VL:255:VAL:HG13	46:VL:256:ASN:HD22	1.85	0.41
45:VM:141:VAL:HG11	45:VM:172:TYR:HD1	1.84	0.41
46:VN:184:ASN:OD1	46:VN:185:ALA:N	2.54	0.41
45:WA:404:PHE:CD1	46:WB:259:PRO:HA	2.56	0.41
46:WB:19:LYS:HA	46:WB:22:GLU:HG3	2.02	0.41
46:WB:113:ILE:HD12	46:WB:150:LEU:HD12	2.02	0.41
46:WB:250:LEU:O	46:WB:253:LEU:HG	2.20	0.41
46:WB:267:MET:HE3	46:WB:301:CYS:HB2	2.02	0.41
46:WD:218:THR:O	46:WD:220:PRO:HD3	2.19	0.41
45:WE:56:THR:HG23	45:WE:58:ALA:H	1.85	0.41
45:WE:69:ASP:OD2	45:WE:70:LEU:N	2.53	0.41
45:WG:206:ASN:OD1	47:WG:501:GTP:N2	2.49	0.41
45:WI:219:ILE:HG22	45:WI:222:PRO:HD3	2.01	0.41
45:WM:101:ASN:HA	45:WM:144:GLY:N	2.29	0.41
45:WM:259:LEU:HD11	45:WM:316:SER:HB3	2.01	0.41
46:WN:337:ASN:OD1	46:WN:340:TYR:HB2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DC:280:LYS:O	45:DC:280:LYS:HG3	2.19	0.41
2:0B:312:ARG:HB2	45:KI:48:ALA:HB2	2.03	0.41
4:0D:187:PHE:HB2	46:FB:322:SER:HB2	2.02	0.41
7:0G:132:ARG:NH2	45:JM:82:THR:HB	2.36	0.41
18:1I:144:THR:HA	46:KF:320:ARG:HH12	1.84	0.41
18:1I:144:THR:HG23	46:KF:355:ASP:OD2	2.20	0.41
19:1J:215:ASN:OD1	46:IJ:360:GLY:HA3	2.21	0.41
21:1L:308:ARG:NH2	45:BG:367:ASP:O	2.53	0.41
21:1L:406:ARG:HD2	46:CF:357:PRO:HG2	2.01	0.41
21:1L:494:GLU:HG3	34:4R:218:ILE:HG21	2.00	0.41
15:1X:100:LYS:HA	45:MC:282:TYR:HD2	1.85	0.41
31:2I:77:GLY:HA3	45:GE:338:LYS:HE2	2.02	0.41
25:2R:382:TYR:HA	46:EH:276:ARG:NH1	2.35	0.41
25:2R:465:GLU:HG2	46:EH:79:GLY:HA2	2.03	0.41
14:2V:24:ARG:NE	45:ME:430:LYS:HE2	2.35	0.41
37:5E:38:VAL:HG13	37:5E:39:ASP:N	2.35	0.41
37:5E:123:ARG:HH12	45:OA:371:VAL:C	2.24	0.41
34:5R:527:ASP:OD2	34:5R:529:GLU:HG3	2.21	0.41
35:5S:180:VAL:HA	35:5S:183:TYR:CE2	2.55	0.41
10:6Q:109:GLN:HE22	10:6Q:120:THR:HB	1.86	0.41
34:6R:66:THR:HG22	46:MN:39:ASP:O	2.19	0.41
34:6R:149:GLN:HB3	34:6R:159:TYR:CD1	2.56	0.41
46:AD:8:GLN:OE1	46:AD:17:GLY:HA3	2.21	0.41
45:AG:88:HIS:ND1	45:AG:90:GLU:HG3	2.36	0.41
45:AG:288:VAL:HA	45:AG:291:ILE:HG22	2.01	0.41
45:AK:51:THR:HG22	45:AK:52:PHE:CD2	2.55	0.41
46:AL:66:MET:CE	46:AL:147:MET:HG2	2.51	0.41
45:AM:49:PHE:O	45:AM:53:PHE:N	2.46	0.41
45:AM:91:GLN:NE2	45:AM:125:LEU:HD21	2.35	0.41
46:AN:1:MET:O	46:AN:2:ARG:HG2	2.20	0.41
46:AN:9:GLY:HA2	46:AN:66:MET:O	2.20	0.41
45:BA:79:ARG:HE	45:BA:92:LEU:HD22	1.84	0.41
45:BA:177:VAL:HG13	46:BB:327:ASP:OD2	2.21	0.41
46:BB:73:MET:SD	46:BB:90:PHE:HB3	2.61	0.41
45:BC:393:HIS:O	45:BC:397:LEU:HD23	2.20	0.41
46:BD:36:TYR:CE2	46:BD:44:LEU:HG	2.56	0.41
46:BD:173:PRO:HD3	46:BD:380:ARG:CZ	2.51	0.41
46:BF:86:ARG:HH21	46:BF:87:PRO:CG	2.33	0.41
46:BF:148:GLY:O	46:BF:152:ILE:HG12	2.19	0.41
45:BG:414:GLU:HB3	45:BG:417:GLU:OE2	2.21	0.41
45:BI:224:TYR:CE2	46:BJ:323:THR:HG21	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:22:GLU:O	45:BK:26:LEU:HD23	2.20	0.41
46:BL:3:GLU:HB2	46:BL:49:VAL:O	2.20	0.41
46:BL:201:VAL:HG22	46:BL:266:PHE:O	2.20	0.41
46:CB:284:LEU:HB3	46:CB:363:MET:HE1	2.01	0.41
45:CC:242:LEU:HD21	45:CC:251:ASP:HA	2.02	0.41
46:CD:65:LEU:HD22	46:CD:90:PHE:CE1	2.55	0.41
46:CD:201:VAL:HG23	46:CD:301:CYS:SG	2.59	0.41
46:CF:21:TRP:CZ2	46:CF:63:ALA:HB2	2.55	0.41
45:CG:121:ARG:HA	45:CG:121:ARG:CZ	2.50	0.41
45:CK:152:LEU:HD12	45:CK:152:LEU:HA	1.94	0.41
46:CL:2:ARG:H	46:CL:129:CYS:HB3	1.86	0.41
46:DF:215:LEU:O	46:DF:216:LYS:HG2	2.21	0.41
46:DJ:108:GLU:O	46:DJ:111:GLU:HG3	2.19	0.41
46:DL:383:GLU:OE1	46:DL:384:GLN:NE2	2.54	0.41
45:EA:210:TYR:CE1	45:EA:227:LEU:HD11	2.56	0.41
45:EC:40:LYS:HZ2	45:EC:43:GLY:H	1.69	0.41
46:EF:68:LEU:HB3	46:EF:96:GLY:HA2	2.03	0.41
46:EF:69:GLU:CD	46:EF:71:GLY:H	2.23	0.41
45:EG:377:MET:HE1	45:EG:379:SER:HB3	2.02	0.41
45:EI:196:GLU:N	45:EI:196:GLU:OE1	2.54	0.41
46:EJ:179:VAL:HG23	46:EJ:180:VAL:HG13	2.02	0.41
46:EJ:326:VAL:O	46:EJ:330:MET:HG2	2.20	0.41
45:EK:254:GLU:OE1	46:EL:99:ASN:ND2	2.53	0.41
46:EL:133:PHE:HB2	46:EL:164:MET:CE	2.51	0.41
46:EL:135:ILE:HG13	46:EL:152:ILE:CD1	2.49	0.41
46:EL:294:PHE:HD1	46:EL:333:VAL:HG21	1.86	0.41
46:EL:380:ARG:HA	46:EL:383:GLU:CD	2.40	0.41
46:EN:226:ASN:ND2	49:EN:501:GDP:HN1	2.19	0.41
45:FA:107:HIS:ND1	45:FA:107:HIS:O	2.54	0.41
45:FA:119:LEU:HD11	45:FA:156:ARG:HH11	1.85	0.41
46:FB:241:ARG:HH22	46:FB:318:ARG:NH2	2.18	0.41
45:FC:11:GLN:O	45:FC:15:GLN:HG2	2.19	0.41
45:FE:100:ALA:HB1	46:FF:252:LYS:HA	2.01	0.41
45:FE:101:ASN:HA	45:FE:144:GLY:H	1.84	0.41
46:FH:135:ILE:HG13	46:FH:152:ILE:HD11	2.02	0.41
45:FI:260:VAL:O	45:FI:260:VAL:HG23	2.20	0.41
46:FN:66:MET:CE	46:FN:151:LEU:HD11	2.49	0.41
46:FN:148:GLY:O	46:FN:152:ILE:HG13	2.20	0.41
45:GA:88:HIS:CE1	45:GA:121:ARG:HH22	2.39	0.41
45:GA:99:ALA:O	45:GA:105:ARG:NE	2.53	0.41
45:GA:320:ARG:NH1	45:GA:360:PRO:HA	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GB:148:GLY:O	46:GB:152:ILE:HG12	2.20	0.41
45:GC:222:PRO:O	46:GD:322:SER:HB2	2.20	0.41
46:GD:284:LEU:HD12	46:GD:363:MET:HB2	2.03	0.41
46:GF:21:TRP:CH2	46:GF:61:PRO:HB3	2.54	0.41
46:GH:73:MET:HA	46:GH:76:VAL:HG12	2.01	0.41
45:GI:231:ILE:O	45:GI:235:ILE:HG12	2.20	0.41
45:HC:118:CYS:O	45:HC:122:ILE:HG13	2.21	0.41
45:HE:288:VAL:HA	45:HE:291:ILE:HG12	2.01	0.41
46:HF:36:TYR:CE2	46:HF:44:LEU:HG	2.55	0.41
45:HG:60:LYS:HD2	45:IG:283:HIS:NE2	2.35	0.41
45:HI:345:ASP:OD1	45:HI:439:THR:HG22	2.20	0.41
46:HL:391:ARG:HA	46:HL:391:ARG:HD2	1.79	0.41
45:HM:387:VAL:HA	45:HM:390:ARG:HG2	2.01	0.41
45:IA:175:PRO:HD3	45:IA:205:ASP:OD2	2.20	0.41
46:IB:156:ARG:HA	46:IB:156:ARG:HD2	1.74	0.41
45:IC:105:ARG:HG2	45:IC:411:GLU:HG2	2.02	0.41
45:IC:311:LYS:O	45:IC:381:SER:HB2	2.21	0.41
45:IC:431:ASP:O	45:IC:435:VAL:HG12	2.20	0.41
46:ID:87:PRO:HA	46:ID:90:PHE:CD2	2.55	0.41
45:IE:387:VAL:HG12	45:IE:390:ARG:CZ	2.50	0.41
46:IH:184:ASN:OD1	46:IH:185:ALA:N	2.53	0.41
45:II:8:HIS:HB2	45:II:67:PHE:HD1	1.85	0.41
46:IJ:86:ARG:CD	45:JG:283:HIS:HB2	2.50	0.41
46:IJ:187:LEU:HD11	46:IJ:408:PHE:CE2	2.55	0.41
45:IK:150:GLY:O	45:IK:154:LEU:HD23	2.21	0.41
45:IM:3:GLU:HG3	45:IM:129:CYS:HB2	2.03	0.41
46:IN:3:GLU:O	46:IN:4:ILE:HD13	2.20	0.41
46:IN:105:HIS:HA	46:IN:147:MET:HE1	2.01	0.41
46:IN:125:GLU:HA	46:IN:125:GLU:OE1	2.20	0.41
46:IN:288:GLU:HA	46:IN:291:GLN:HG3	2.02	0.41
45:JE:227:LEU:O	45:JE:231:ILE:HG12	2.21	0.41
46:JF:304:ASP:OD1	46:JF:306:ARG:NH1	2.53	0.41
46:JF:372:THR:HA	46:JF:422:TYR:CE2	2.53	0.41
46:JH:69:GLU:HA	46:JH:70:PRO:HD3	1.89	0.41
46:JJ:175:VAL:O	46:JJ:175:VAL:HG23	2.21	0.41
46:JL:100:ASN:ND2	46:JL:103:LYS:HG3	2.36	0.41
46:JN:16:ILE:HD13	46:JN:226:ASN:OD1	2.20	0.41
46:JN:73:MET:SD	46:JN:90:PHE:HD1	2.44	0.41
46:JN:116:VAL:HA	46:JN:119:VAL:HG22	2.01	0.41
46:JN:139:LEU:HA	46:JN:145:SER:HB3	2.02	0.41
46:JN:316:LEU:HB3	46:JN:366:THR:OG1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KC:20:CYS:HA	45:KC:232:ALA:HB1	2.02	0.41
46:KD:68:LEU:HG	46:KD:143:THR:OG1	2.20	0.41
46:KF:325:GLU:HG2	46:KF:326:VAL:N	2.36	0.41
45:KG:51:THR:HG21	45:KG:243:ARG:HB3	2.02	0.41
46:KH:177:ASP:OD1	46:KH:178:THR:HG23	2.20	0.41
46:KJ:248:SER:HA	46:KJ:252:LYS:HD2	2.01	0.41
46:KJ:390:ARG:HD2	46:KJ:390:ARG:HA	1.82	0.41
45:KK:20:CYS:HA	45:KK:232:ALA:HB1	2.03	0.41
45:KM:361:THR:HA	45:KM:370:LYS:HZ1	1.85	0.41
45:LC:183:GLU:HG2	45:LC:184:PRO:HD3	2.01	0.41
45:LC:210:TYR:CE1	45:LC:227:LEU:HD21	2.55	0.41
46:LD:190:HIS:NE2	46:LD:410:GLU:OE1	2.53	0.41
46:LF:121:ARG:O	46:LF:125:GLU:HG2	2.20	0.41
46:LH:3:GLU:HG3	46:LH:62:ARG:HH12	1.86	0.41
45:LI:317:MET:HE2	45:LI:319:TYR:HE1	1.85	0.41
45:LK:100:ALA:O	46:LL:255:VAL:HG11	2.20	0.41
45:LK:288:VAL:HA	45:LK:291:ILE:CG1	2.48	0.41
46:LL:313:ALA:HB1	46:LL:367:PHE:HE1	1.85	0.41
45:LM:179:THR:O	46:LN:350:LYS:HA	2.20	0.41
45:MA:66:VAL:HG11	45:MA:122:ILE:HD11	2.03	0.41
45:MA:149:LEU:O	45:MA:153:LEU:HD23	2.20	0.41
45:MA:186:ASN:OD1	45:MA:187:SER:N	2.54	0.41
46:MJ:167:PHE:CZ	46:MJ:233:MET:HG3	2.56	0.41
45:MK:17:GLY:HA2	45:MK:20:CYS:SG	2.60	0.41
45:MK:169:PHE:HB3	45:MK:204:LEU:HD11	2.03	0.41
45:MM:415:GLU:OE1	45:MM:415:GLU:HA	2.20	0.41
46:MN:6:HIS:O	46:MN:63:ALA:HA	2.19	0.41
45:NA:206:ASN:O	45:NA:210:TYR:HD1	2.03	0.41
45:NA:396:ASP:HB2	45:NA:422:ARG:HH22	1.85	0.41
45:NA:434:GLU:O	45:NA:437:ILE:HG22	2.20	0.41
45:NE:336:LYS:HE3	45:NE:351:PHE:HE2	1.84	0.41
45:NE:411:GLU:N	45:NE:411:GLU:OE2	2.54	0.41
45:NE:422:ARG:HA	45:NE:422:ARG:HD2	1.91	0.41
46:NF:154:LYS:HE2	46:NF:154:LYS:HB2	1.80	0.41
46:NH:214:THR:HG23	46:NH:215:LEU:HD22	2.01	0.41
45:NI:288:VAL:HA	45:NI:291:ILE:HG12	2.03	0.41
46:NJ:2:ARG:HB2	46:NJ:131:GLN:HG3	2.03	0.41
46:NJ:148:GLY:O	46:NJ:152:ILE:HG12	2.20	0.41
45:NK:177:VAL:HG22	45:NK:207:GLU:HG3	2.02	0.41
46:NL:10:GLY:O	46:NL:14:ASN:ND2	2.53	0.41
46:NL:284:LEU:HB3	46:NL:289:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NM:322:ASP:C	45:NM:373:ARG:HH12	2.23	0.41
46:NN:257:LEU:O	46:NN:259:PRO:HD3	2.20	0.41
45:OA:252:ILE:HD12	45:OA:252:ILE:H	1.85	0.41
46:OD:257:LEU:HD21	46:OD:314:SER:HB3	2.01	0.41
45:OE:306:ASP:OD1	45:OE:308:ARG:HG2	2.20	0.41
46:OH:69:GLU:HA	46:OH:70:PRO:HD3	1.91	0.41
45:OI:67:PHE:HD2	45:OI:92:LEU:HD22	1.85	0.41
45:OI:224:TYR:HE1	46:OJ:323:THR:HG1	1.66	0.41
45:OI:254:GLU:HA	45:OI:254:GLU:OE1	2.21	0.41
46:OJ:309:ARG:NH2	46:OJ:342:VAL:HG23	2.36	0.41
45:OK:10:GLY:O	45:OK:14:ILE:HG12	2.20	0.41
45:OK:46:ASP:OD1	45:OK:47:ASP:N	2.54	0.41
46:OL:253:LEU:O	46:OL:257:LEU:HB2	2.20	0.41
46:OL:309:ARG:NH1	46:OL:339:SER:O	2.54	0.41
46:ON:26:ASP:OD2	46:ON:27:GLU:N	2.53	0.41
46:ON:178:THR:HG22	46:ON:180:VAL:H	1.85	0.41
46:ON:267:MET:HB3	46:ON:299:MET:CE	2.50	0.41
46:PB:326:VAL:O	46:PB:330:MET:HG2	2.20	0.41
46:PD:249:ASP:OD1	46:PD:252:LYS:HG3	2.20	0.41
46:PD:407:GLU:O	46:PD:410:GLU:HG3	2.20	0.41
46:PF:210:ILE:O	46:PF:214:THR:HG22	2.20	0.41
46:PF:318:ARG:HH11	46:PF:358:PRO:HG3	1.85	0.41
46:PJ:289:LEU:O	46:PJ:293:MET:HG3	2.21	0.41
46:PJ:306:ARG:HD2	46:PJ:340:TYR:CE2	2.55	0.41
45:PK:166:LYS:HD2	45:PK:197:HIS:O	2.19	0.41
46:PL:140:GLY:HA2	46:PL:181:GLU:OE1	2.20	0.41
45:PM:154:LEU:HD12	45:PM:155:GLU:N	2.35	0.41
45:PM:387:VAL:O	45:PM:391:LEU:HD23	2.20	0.41
46:QF:326:VAL:O	46:QF:330:MET:HG2	2.20	0.41
46:QH:1:MET:HG2	46:QH:2:ARG:N	2.35	0.41
45:QK:83:TYR:HB3	45:QK:86:LEU:HD12	2.03	0.41
46:QL:165:GLU:OE1	46:QL:198:GLU:HG3	2.21	0.41
46:QL:239:CYS:SG	46:QL:247:ASN:HA	2.60	0.41
46:QN:289:LEU:HD13	46:QN:365:VAL:HG23	2.02	0.41
46:RB:3:GLU:HG3	46:RB:62:ARG:NH1	2.36	0.41
45:RC:378:ILE:HG13	45:RC:378:ILE:O	2.20	0.41
45:RE:275:ILE:HA	45:RE:368:LEU:HD11	2.02	0.41
45:RG:71:GLU:O	45:RG:71:GLU:HG2	2.21	0.41
45:RG:119:LEU:HA	45:RG:122:ILE:HG12	2.02	0.41
46:RJ:74:ASP:OD1	46:RJ:77:ARG:NH2	2.52	0.41
45:RM:231:ILE:O	45:RM:235:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SA:141:VAL:HG12	45:SA:171:ILE:O	2.20	0.41
45:SA:141:VAL:HG22	45:SA:187:SER:HA	2.03	0.41
46:SB:150:LEU:HD23	46:SB:154:LYS:HZ2	1.85	0.41
45:SC:121:ARG:HH11	45:SC:124:LYS:HE2	1.86	0.41
46:SD:201:VAL:HG12	46:SD:266:PHE:O	2.20	0.41
45:SE:229:ARG:HE	45:SE:363:VAL:HG12	1.84	0.41
46:SF:267:MET:HE2	46:SF:301:CYS:HB2	2.02	0.41
46:SH:173:PRO:HG2	46:SH:380:ARG:HD3	2.02	0.41
46:SJ:8:GLN:O	46:SJ:66:MET:HG2	2.20	0.41
46:SJ:36:TYR:CE2	46:SJ:44:LEU:HD11	2.55	0.41
46:TB:3:GLU:HA	46:TB:49:VAL:HG13	2.01	0.41
46:TB:257:LEU:HA	46:TB:312:THR:HG21	2.02	0.41
45:TC:27:GLU:CD	45:TC:243:ARG:HH21	2.24	0.41
45:TC:174:SER:OG	45:TC:207:GLU:HB2	2.20	0.41
45:TC:287:SER:HA	45:TC:373:ARG:HH12	1.86	0.41
46:TD:258:ILE:O	46:TD:258:ILE:HG13	2.20	0.41
45:TG:103:PHE:H	45:TG:408:TYR:HE2	1.66	0.41
45:TG:141:VAL:HG11	45:TG:172:TYR:HD1	1.84	0.41
45:TG:372:MET:SD	45:TG:372:MET:N	2.91	0.41
45:TG:416:GLY:O	45:TG:419:SER:OG	2.32	0.41
46:TH:258:ILE:HG23	46:TH:266:PHE:HZ	1.86	0.41
46:TH:350:LYS:HA	45:TI:179:THR:O	2.21	0.41
45:TK:383:ALA:O	45:TK:386:GLU:HG2	2.21	0.41
46:TL:113:ILE:HA	46:TL:116:VAL:HG12	2.02	0.41
45:TM:331:SER:O	45:TM:335:ILE:HG12	2.21	0.41
46:TN:201:VAL:HG22	46:TN:266:PHE:O	2.20	0.41
46:UB:1:MET:O	46:UB:2:ARG:HG2	2.20	0.41
45:UC:352:LYS:HZ3	46:UD:179:VAL:N	2.17	0.41
45:UC:393:HIS:O	45:UC:397:LEU:HG	2.21	0.41
46:UD:39:ASP:OD2	46:UD:40:SER:N	2.54	0.41
45:UG:133:GLN:O	45:UG:164:LYS:HE3	2.20	0.41
45:UG:425:LEU:HD23	45:UG:425:LEU:HA	1.80	0.41
46:UH:69:GLU:HA	46:UH:70:PRO:HD3	1.86	0.41
46:UH:122:LYS:HA	46:UH:122:LYS:HE2	2.02	0.41
46:UH:395:LEU:O	46:UH:399:THR:HG23	2.20	0.41
45:UK:152:LEU:O	45:UK:155:GLU:HG3	2.20	0.41
45:VA:387:VAL:HG12	45:VA:390:ARG:NH2	2.24	0.41
46:VB:188:SER:O	46:VB:192:LEU:HD23	2.20	0.41
46:VD:121:ARG:O	46:VD:124:ALA:N	2.53	0.41
46:VD:312:THR:HG22	46:VD:370:ASN:HB3	2.01	0.41
46:VF:226:ASN:ND2	49:VF:501:GDP:HN1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VH:20:PHE:CE1	46:VH:233:MET:HB3	2.54	0.41
46:VH:41:ASP:OD1	46:VH:42:LEU:HD12	2.19	0.41
46:VH:201:VAL:HG23	46:VH:301:CYS:SG	2.60	0.41
46:VH:321:MET:SD	46:VH:363:MET:HG3	2.61	0.41
46:VJ:261:PRO:HG2	46:VJ:262:ARG:NH1	2.35	0.41
45:VK:2:ARG:O	45:VK:51:THR:HA	2.19	0.41
46:VN:12:CYS:HB3	46:VN:138:SER:HB2	2.03	0.41
45:WA:317:MET:HG3	45:WA:377:MET:HB3	2.01	0.41
45:WA:317:MET:N	45:WA:317:MET:SD	2.93	0.41
46:WB:306:ARG:NH1	46:WB:337:ASN:OD1	2.48	0.41
45:WC:434:GLU:O	45:WC:437:ILE:HG12	2.21	0.41
46:WD:21:TRP:CZ3	46:WD:61:PRO:HB3	2.55	0.41
46:WD:388:MET:HE1	46:WD:394:PHE:HD1	1.85	0.41
46:WF:238:CYS:SG	46:WF:239:CYS:N	2.94	0.41
45:WG:73:THR:O	45:WG:76:ASP:HB2	2.20	0.41
45:WG:74:VAL:HA	45:WG:77:GLU:CD	2.41	0.41
45:WI:101:ASN:HA	45:WI:144:GLY:H	1.85	0.41
46:WJ:17:GLY:HA2	46:WJ:20:PHE:HB3	2.01	0.41
46:WN:173:PRO:HD2	46:WN:380:ARG:NH2	2.36	0.41
45:DC:63:PRO:HG2	45:DC:87:PHE:HE2	1.83	0.41
2:0B:215:MET:HA	45:JI:245:ASP:OD2	2.19	0.41
3:0C:77:PRO:HB3	46:EH:39:ASP:OD1	2.18	0.41
21:1L:649:PHE:HZ	46:CD:320:ARG:NH2	2.18	0.41
25:2R:248:GLN:H	45:BG:58:ALA:HB2	1.85	0.41
31:3I:263:PHE:HE2	46:GJ:294:PHE:HB3	1.84	0.41
12:3T:74:ILE:HD12	45:MK:159:VAL:CG2	2.51	0.41
15:4X:87:ASP:HA	15:4X:90:ARG:CZ	2.49	0.41
36:5A:172:LEU:HA	36:5A:175:LYS:NZ	2.35	0.41
35:5S:210:LYS:HG3	35:5S:212:GLU:OE2	2.21	0.41
41:6H:241:LEU:HA	41:6H:243:LYS:HZ3	1.85	0.41
41:6H:330:GLU:N	41:6H:330:GLU:OE1	2.54	0.41
34:6R:206:ASN:ND2	34:6R:210:GLU:OE2	2.39	0.41
34:7R:339:MET:CE	34:7R:346:ASP:HB3	2.51	0.41
34:7R:396:ASP:OD1	46:EB:218:THR:OG1	2.39	0.41
45:AC:35:GLN:NE2	45:AC:60:LYS:HB3	2.35	0.41
46:AD:256:ASN:OD1	46:AD:256:ASN:O	2.38	0.41
45:AE:205:ASP:OD1	45:AE:303:ALA:HA	2.20	0.41
46:AF:214:THR:HG22	46:AF:297:LYS:HE2	2.01	0.41
45:AG:71:GLU:OE2	46:AH:247:ASN:ND2	2.53	0.41
45:AI:21:TRP:CZ2	45:AI:65:ALA:HB2	2.56	0.41
45:AI:265:ILE:HD13	45:AI:432:TYR:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AK:35:GLN:HG2	45:AK:60:LYS:HG2	2.02	0.41
45:AK:384:ILE:O	45:AK:387:VAL:HG22	2.21	0.41
46:AL:1:MET:O	46:AL:2:ARG:HG2	2.19	0.41
46:AN:6:HIS:O	46:AN:63:ALA:HA	2.20	0.41
46:AN:103:LYS:HB3	46:AN:103:LYS:HE2	1.90	0.41
45:BA:79:ARG:NH2	45:BA:92:LEU:HB2	2.30	0.41
45:BE:164:LYS:HG3	45:BE:165:SER:N	2.35	0.41
46:BF:175:VAL:O	46:BF:175:VAL:HG23	2.20	0.41
45:BI:3:GLU:HG2	45:BI:132:LEU:HA	2.01	0.41
46:BJ:87:PRO:HD2	46:CH:281:TYR:CE1	2.55	0.41
46:BJ:113:ILE:HB	46:BJ:117:LEU:HD23	2.02	0.41
46:BJ:270:PHE:HD2	46:BJ:273:LEU:HD21	1.85	0.41
45:BK:8:HIS:ND1	45:BK:17:GLY:HA3	2.36	0.41
46:BL:187:LEU:HD11	46:BL:408:PHE:CE1	2.55	0.41
46:BN:28:HIS:C	46:BN:43:GLN:HE21	2.24	0.41
46:CD:289:LEU:HD23	46:CD:289:LEU:HA	1.79	0.41
46:CF:1:MET:O	46:CF:2:ARG:HG2	2.20	0.41
45:CG:107:HIS:O	45:CG:107:HIS:ND1	2.53	0.41
45:CG:152:LEU:HD12	45:CG:152:LEU:HA	1.95	0.41
45:CI:182:VAL:O	45:CI:182:VAL:HG22	2.20	0.41
46:CL:69:GLU:HA	46:CL:70:PRO:HD3	1.90	0.41
46:CL:130:LEU:HD12	46:CL:130:LEU:HA	1.91	0.41
45:CM:304:LYS:HB2	45:CM:304:LYS:HE2	1.90	0.41
46:DB:42:LEU:HD13	46:DB:45:GLU:OE1	2.21	0.41
45:DE:200:VAL:HG13	45:DE:268:MET:SD	2.60	0.41
46:DH:237:THR:HG23	46:DH:241:ARG:HH21	1.84	0.41
46:DH:324:LYS:O	46:DH:328:GLU:HG2	2.19	0.41
46:DH:418:LEU:O	46:DH:422:TYR:HB2	2.21	0.41
45:DI:238:LEU:HD12	45:DI:238:LEU:HA	1.87	0.41
45:DI:322:ASP:OD2	45:DI:373:ARG:NH1	2.49	0.41
46:DJ:204:ASN:OD1	49:DJ:501:GDP:O2'	2.29	0.41
45:DK:287:SER:O	45:DK:291:ILE:HG23	2.21	0.41
45:DK:392:ASP:OD2	45:DK:422:ARG:NH2	2.53	0.41
45:DK:411:GLU:N	45:DK:411:GLU:OE2	2.53	0.41
45:DM:175:PRO:HB2	45:DM:176:GLN:OE1	2.20	0.41
45:DM:280:LYS:O	45:DM:280:LYS:HG3	2.21	0.41
45:DM:286:LEU:HD13	45:DM:371:VAL:HG23	2.02	0.41
46:DN:116:VAL:HA	46:DN:119:VAL:HG12	2.03	0.41
46:DN:288:GLU:O	46:DN:291:GLN:HG3	2.20	0.41
46:DN:396:HIS:HA	46:DN:399:THR:OG1	2.21	0.41
45:EC:260:VAL:HG13	45:EC:265:ILE:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:66:MET:HE2	46:ED:116:VAL:HG21	2.01	0.41
46:EF:257:LEU:HD11	46:EF:314:SER:HB2	2.03	0.41
45:EG:184:PRO:O	45:EG:188:ILE:HG12	2.20	0.41
46:EH:164:MET:O	46:EH:197:ASP:HB2	2.20	0.41
45:EI:200:VAL:HG13	45:EI:268:MET:SD	2.61	0.41
46:EJ:135:ILE:HG13	46:EJ:152:ILE:CD1	2.48	0.41
45:EM:7:ILE:HG22	45:EM:66:VAL:HG12	2.02	0.41
46:EN:293:MET:HE3	46:EN:367:PHE:HB2	2.02	0.41
45:FA:372:MET:N	45:FA:372:MET:SD	2.93	0.41
45:FA:420:GLU:HG2	45:FA:421:ALA:N	2.36	0.41
46:FD:52:ASN:OD1	46:FD:62:ARG:NH2	2.53	0.41
46:FD:210:ILE:HG22	46:FD:297:LYS:O	2.21	0.41
46:FF:201:VAL:HG12	46:FF:266:PHE:O	2.20	0.41
45:FG:107:HIS:ND1	45:FG:107:HIS:O	2.54	0.41
45:FG:260:VAL:HG13	45:FG:265:ILE:O	2.20	0.41
46:FH:125:GLU:OE2	46:GH:336:LYS:NZ	2.54	0.41
46:FL:290:THR:HA	46:FL:293:MET:HB3	2.03	0.41
46:FL:314:SER:HA	46:FL:350:LYS:HB3	2.02	0.41
46:FN:24:ILE:HG23	46:FN:241:ARG:HH12	1.85	0.41
46:FN:46:ARG:HG3	46:FN:49:VAL:HG23	2.03	0.41
45:GC:188:ILE:HG22	45:GC:421:ALA:HB1	2.03	0.41
46:GD:293:MET:HG3	46:GD:365:VAL:HG11	2.03	0.41
45:GE:153:LEU:O	45:GE:157:LEU:HG	2.21	0.41
45:GE:223:THR:OG1	45:GE:224:TYR:N	2.51	0.41
46:GF:316:LEU:HB2	46:GF:366:THR:OG1	2.20	0.41
46:GF:409:THR:O	46:GF:412:GLU:HG3	2.21	0.41
46:GH:9:GLY:HA2	46:GH:66:MET:O	2.20	0.41
46:GH:167:PHE:HD1	46:GH:202:ILE:HD11	1.86	0.41
46:GJ:105:HIS:CE1	46:GJ:150:LEU:HD12	2.55	0.41
45:GK:35:GLN:HE22	45:GK:59:GLY:HA2	1.85	0.41
45:GK:201:ALA:HB3	45:GK:267:PHE:CD1	2.55	0.41
45:GK:224:TYR:O	45:GK:228:ASN:ND2	2.53	0.41
45:HA:268:MET:HE2	45:HA:268:MET:HB3	1.90	0.41
46:HB:173:PRO:HG2	46:HB:380:ARG:HD3	2.03	0.41
45:HC:220:GLU:CD	45:HC:221:ARG:HG2	2.40	0.41
46:HD:6:HIS:NE2	46:HD:8:GLN:HB3	2.35	0.41
46:HD:131:GLN:HE22	46:HD:240:LEU:HD11	1.85	0.41
46:HF:301:CYS:SG	46:HF:302:ALA:N	2.94	0.41
45:HG:91:GLN:HB3	45:HG:121:ARG:NH2	2.35	0.41
45:HI:176:GLN:NE2	45:HI:177:VAL:HG23	2.36	0.41
45:HK:35:GLN:NE2	45:HK:60:LYS:HB3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HK:178:SER:HB2	45:HK:183:GLU:OE1	2.21	0.41
45:HM:20:CYS:HA	45:HM:232:ALA:HB1	2.01	0.41
45:HM:331:SER:O	45:HM:335:ILE:HG12	2.21	0.41
46:HN:4:ILE:HG13	46:HN:132:GLY:O	2.20	0.41
46:HN:65:LEU:HD22	46:HN:90:PHE:CE1	2.56	0.41
46:HN:244:GLY:HA3	46:HN:354:CYS:HA	2.02	0.41
46:IH:309:ARG:NH1	46:IH:343:GLU:OE2	2.53	0.41
46:IJ:416:ASN:HA	46:IJ:419:VAL:HG12	2.02	0.41
45:IK:156:ARG:HA	45:IK:156:ARG:HD2	1.91	0.41
45:IK:426:ALA:O	45:IK:429:GLU:HG3	2.21	0.41
46:IL:156:ARG:HG3	46:IL:195:ASN:HB3	2.01	0.41
45:IM:33:ASP:HA	45:IM:85:GLN:HG3	2.03	0.41
45:IM:71:GLU:HA	45:IM:72:PRO:HD3	1.84	0.41
45:IM:207:GLU:HA	45:IM:210:TYR:CD2	2.55	0.41
45:IM:401:LYS:HA	45:IM:401:LYS:HD2	1.90	0.41
46:IN:187:LEU:HD21	46:IN:408:PHE:CE1	2.56	0.41
46:IN:316:LEU:HB3	46:IN:366:THR:HG22	2.02	0.41
45:JA:21:TRP:CZ2	45:JA:65:ALA:HB2	2.56	0.41
46:JH:31:ASP:OD1	46:JH:34:GLY:N	2.53	0.41
46:JH:325:GLU:O	46:JH:328:GLU:HG3	2.20	0.41
45:JI:71:GLU:HG2	45:JI:71:GLU:O	2.20	0.41
45:JI:151:SER:HB2	45:JI:193:SER:OG	2.21	0.41
46:JL:3:GLU:OE1	46:JL:127:CYS:HB2	2.20	0.41
46:JL:18:ALA:O	46:JL:22:GLU:HG3	2.20	0.41
45:JM:151:SER:O	45:JM:155:GLU:OE1	2.37	0.41
45:JM:187:SER:O	45:JM:191:THR:HG23	2.20	0.41
45:KA:377:MET:HE2	45:KA:379:SER:HB3	2.02	0.41
46:KF:387:ALA:HA	46:KF:390:ARG:NH1	2.34	0.41
45:KG:7:ILE:HB	45:KG:137:VAL:HG12	2.01	0.41
46:KH:267:MET:CE	46:KH:299:MET:HG2	2.51	0.41
46:KL:9:GLY:HA2	46:KL:66:MET:O	2.20	0.41
45:KM:98:ASP:OD1	45:KM:99:ALA:N	2.52	0.41
45:LA:185:TYR:HE1	45:LA:398:MET:HB3	1.85	0.41
45:LC:11:GLN:HG3	45:LC:74:VAL:HG11	2.03	0.41
45:LC:75:ILE:HA	45:LC:78:VAL:HG12	2.03	0.41
46:LD:3:GLU:HG3	46:LD:62:ARG:NH1	2.35	0.41
45:LE:196:GLU:OE1	45:LE:196:GLU:N	2.50	0.41
46:LF:8:GLN:OE1	46:LF:17:GLY:HA3	2.21	0.41
45:LG:275:ILE:HD13	45:LG:275:ILE:HA	1.92	0.41
46:LH:190:HIS:HD2	46:LH:414:ASN:HB2	1.86	0.41
45:LI:221:ARG:CA	46:LJ:324:LYS:HZ1	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LJ:125:GLU:OE1	46:LJ:125:GLU:N	2.54	0.41
45:LK:64:ARG:NH1	45:LK:129:CYS:SG	2.94	0.41
45:LK:292:THR:HG21	45:LK:331:SER:HB2	2.02	0.41
46:LL:117:LEU:HD11	46:LL:154:LYS:HG2	2.02	0.41
46:LL:238:CYS:SG	46:LL:239:CYS:N	2.94	0.41
45:MC:210:TYR:CE1	45:MC:227:LEU:HD21	2.54	0.41
45:MC:332:ILE:HA	45:MC:335:ILE:HG22	2.02	0.41
46:MF:248:SER:HA	46:MF:252:LYS:HD2	2.02	0.41
45:MG:288:VAL:CG1	45:MG:327:ASP:HB3	2.39	0.41
45:MK:1:MET:HE2	46:MN:70:PRO:HG3	2.02	0.41
46:ML:97:ALA:C	46:ML:103:LYS:HZ2	2.23	0.41
45:MM:155:GLU:HG2	45:MM:197:HIS:CD2	2.56	0.41
45:NA:141:VAL:CG1	45:NA:172:TYR:HA	2.51	0.41
45:NA:346:TRP:CE3	46:ND:391:ARG:HD3	2.55	0.41
46:NB:256:ASN:HB3	46:NB:350:LYS:CD	2.42	0.41
46:NB:268:ILE:CD1	46:NB:368:VAL:HG22	2.51	0.41
46:NB:406:MET:O	46:NB:409:THR:OG1	2.17	0.41
45:NC:71:GLU:OE1	46:ND:247:ASN:ND2	2.53	0.41
45:NE:345:ASP:OD2	45:NE:438:GLU:HG2	2.19	0.41
46:NF:221:THR:HG23	46:NF:223:GLY:H	1.86	0.41
45:NG:371:VAL:HG22	45:NG:373:ARG:H	1.85	0.41
45:NI:386:GLU:O	45:NI:390:ARG:HG3	2.21	0.41
46:NJ:257:LEU:O	46:NJ:259:PRO:HD3	2.21	0.41
46:NL:3:GLU:OE2	46:NL:127:CYS:HB2	2.21	0.41
46:NN:184:ASN:OD1	46:NN:185:ALA:N	2.53	0.41
46:NN:309:ARG:N	46:NN:372:THR:OG1	2.50	0.41
45:OA:116:ASP:OD1	45:OA:117:LEU:N	2.52	0.41
45:OA:242:LEU:HD11	45:OA:251:ASP:OD1	2.20	0.41
45:OA:394:LYS:HE2	45:OA:394:LYS:HA	2.03	0.41
46:OB:287:PRO:O	46:OB:290:THR:HG22	2.21	0.41
46:OB:318:ARG:HD3	46:OB:358:PRO:CD	2.50	0.41
45:OG:86:LEU:HD23	45:OG:87:PHE:CE1	2.55	0.41
45:OG:326:LYS:HD2	46:OJ:220:PRO:HD2	2.03	0.41
45:OG:333:ALA:O	45:OG:337:THR:HG23	2.20	0.41
45:OI:19:ALA:HA	45:OI:22:GLU:OE1	2.20	0.41
46:OJ:318:ARG:HD3	46:OJ:358:PRO:HD3	2.01	0.41
45:OK:180:ALA:HA	46:OL:350:LYS:HD2	2.02	0.41
46:OL:175:VAL:HG22	46:OL:205:GLU:HB2	2.01	0.41
45:OM:174:SER:HB3	45:OM:207:GLU:HG2	2.03	0.41
46:PB:239:CYS:SG	46:PB:316:LEU:HD23	2.61	0.41
46:PD:3:GLU:O	46:PD:130:LEU:HD12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PD:288:GLU:OE2	46:PD:289:LEU:HD22	2.21	0.41
46:PD:304:ASP:OD1	46:PD:306:ARG:HG2	2.20	0.41
46:PD:375:GLN:OE1	46:PD:423:GLN:HB3	2.21	0.41
45:PE:209:ILE:HG21	45:PE:227:LEU:HG	2.03	0.41
45:PE:245:ASP:N	45:PE:245:ASP:OD1	2.52	0.41
45:PG:90:GLU:O	45:PG:121:ARG:NH1	2.54	0.41
45:PG:224:TYR:CE2	46:PH:323:THR:HG21	2.55	0.41
45:PG:384:ILE:O	45:PG:387:VAL:HG22	2.21	0.41
45:PK:319:TYR:CD2	45:PK:323:VAL:HG21	2.56	0.41
45:PK:387:VAL:HG23	45:PK:390:ARG:NE	2.36	0.41
46:PL:297:LYS:HA	46:PL:297:LYS:HD3	1.88	0.41
46:PN:120:VAL:HA	46:PN:123:GLU:CD	2.41	0.41
46:PN:203:ASP:O	46:PN:207:LEU:HG	2.21	0.41
45:QA:19:ALA:HA	45:QA:22:GLU:OE1	2.19	0.41
45:QA:312:TYR:HA	45:QA:381:SER:OG	2.21	0.41
46:QB:359:LYS:HE3	46:QB:359:LYS:HB3	1.86	0.41
45:QC:390:ARG:HB3	45:QC:394:LYS:HZ3	1.85	0.41
46:QD:9:GLY:HA2	46:QD:66:MET:O	2.20	0.41
45:QE:14:ILE:HD11	45:QE:69:ASP:HB2	2.03	0.41
45:QE:25:CYS:HB2	45:QE:30:ILE:HG23	2.03	0.41
45:QE:88:HIS:HD2	45:RE:280:LYS:NZ	2.19	0.41
46:QF:210:ILE:O	46:QF:214:THR:HG22	2.20	0.41
45:QI:167:LEU:HG	45:QI:200:VAL:HB	2.01	0.41
45:QK:188:ILE:HD11	45:QK:391:LEU:HB3	2.03	0.41
45:QK:239:THR:HG23	45:QK:243:ARG:HH21	1.85	0.41
46:QL:152:ILE:HG22	46:QL:195:ASN:ND2	2.35	0.41
46:RB:202:ILE:HG13	46:RB:300:MET:HE3	2.03	0.41
46:RB:267:MET:HE1	46:RB:299:MET:HB3	2.02	0.41
45:RC:3:GLU:O	45:RC:133:GLN:N	2.31	0.41
45:RC:51:THR:HG22	45:RC:52:PHE:CD1	2.55	0.41
46:RD:371:SER:O	46:RD:422:TYR:OH	2.28	0.41
45:RE:350:GLY:HA2	46:RF:179:VAL:HG13	2.01	0.41
45:RG:319:TYR:HB3	45:RG:323:VAL:HG21	2.02	0.41
46:RH:380:ARG:HE	46:RH:380:ARG:HB3	1.66	0.41
46:RJ:3:GLU:OE1	46:RJ:3:GLU:N	2.51	0.41
46:RJ:6:HIS:O	46:RJ:63:ALA:HA	2.20	0.41
46:RJ:116:VAL:HA	46:RJ:119:VAL:HG12	2.02	0.41
45:RK:22:GLU:OE2	45:RK:229:ARG:NH1	2.53	0.41
45:RK:326:LYS:HB3	46:RL:208:TYR:HE1	1.85	0.41
46:RL:156:ARG:HG3	46:RL:195:ASN:HB2	2.03	0.41
45:SA:56:THR:O	45:TA:285:GLN:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:19:LYS:HA	46:SB:22:GLU:HG3	2.01	0.41
46:SD:113:ILE:HA	46:SD:116:VAL:HG12	2.02	0.41
45:SE:6:SER:OG	45:SE:8:HIS:NE2	2.54	0.41
45:SE:194:LEU:O	45:SE:198:THR:HG22	2.20	0.41
46:SF:99:ASN:HA	46:SF:142:GLY:N	2.30	0.41
46:SF:101:TRP:HD1	46:SF:145:SER:OG	2.03	0.41
45:SG:231:ILE:O	45:SG:235:ILE:HG12	2.20	0.41
45:SG:237:SER:HA	45:SG:320:ARG:HH11	1.86	0.41
46:SH:222:TYR:CD1	46:SH:225:LEU:HD12	2.56	0.41
46:SH:246:LEU:HA	45:SI:11:GLN:HE22	1.85	0.41
45:SI:118:CYS:O	45:SI:122:ILE:HG12	2.20	0.41
45:SK:194:LEU:O	45:SK:198:THR:HG22	2.20	0.41
46:SL:67:ASP:OD1	46:SL:68:LEU:N	2.54	0.41
46:SL:376:GLU:HG2	46:SL:377:MET:N	2.34	0.41
45:TA:172:TYR:CD2	45:TA:203:MET:HG3	2.56	0.41
46:TB:67:ASP:OD1	46:TB:68:LEU:N	2.52	0.41
46:TB:403:MET:HG3	46:TB:407:GLU:OE2	2.20	0.41
46:TD:376:GLU:O	46:TD:380:ARG:HG2	2.20	0.41
45:TE:91:GLN:OE1	45:TE:91:GLN:N	2.52	0.41
45:TE:268:MET:HB2	45:TE:379:SER:O	2.19	0.41
45:TE:326:LYS:HZ3	46:TF:208:TYR:HB3	1.85	0.41
45:TI:27:GLU:OE2	45:TI:28:HIS:CE1	2.73	0.41
46:TJ:116:VAL:O	46:TJ:119:VAL:HG12	2.19	0.41
45:TK:424:ASP:O	45:TK:428:LEU:HD23	2.20	0.41
46:TN:399:THR:HA	46:TN:403:MET:O	2.20	0.41
46:TN:406:MET:O	46:TN:410:GLU:HG3	2.20	0.41
45:UC:101:ASN:HA	45:UC:144:GLY:N	2.33	0.41
45:UC:265:ILE:HG22	45:UC:380:ASN:HD21	1.85	0.41
45:UC:284:GLU:HG2	45:UC:286:LEU:HD22	2.02	0.41
45:UE:186:ASN:OD1	45:UE:187:SER:N	2.53	0.41
45:UE:270:SER:O	45:UE:302:MET:HB2	2.19	0.41
46:UF:183:TYR:OH	46:UF:388:MET:HB3	2.20	0.41
45:UG:387:VAL:O	45:UG:390:ARG:HG3	2.20	0.41
46:UH:303:ALA:HB2	46:UH:377:MET:HE2	2.03	0.41
45:UK:167:LEU:HG	45:UK:200:VAL:HB	2.03	0.41
45:UM:196:GLU:OE1	45:UM:196:GLU:N	2.52	0.41
45:UM:304:LYS:HA	45:UM:304:LYS:HD2	1.93	0.41
45:UM:336:LYS:HA	45:UM:336:LYS:HE2	2.02	0.41
46:UN:74:ASP:OD1	46:UN:77:ARG:NH1	2.53	0.41
45:VA:75:ILE:HA	45:VA:78:VAL:HB	2.01	0.41
45:VA:175:PRO:HB2	45:VA:176:GLN:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:224:TYR:HE2	46:VB:323:THR:HG1	1.67	0.41
45:VA:265:ILE:HG23	45:VA:432:TYR:CZ	2.56	0.41
45:VA:426:ALA:O	45:VA:430:LYS:HG2	2.20	0.41
46:VB:63:ALA:O	46:VB:89:ASN:ND2	2.43	0.41
45:VC:259:LEU:HD23	45:VC:259:LEU:HA	1.93	0.41
45:VE:329:ASN:HA	45:VE:332:ILE:HG22	2.02	0.41
46:VH:210:ILE:HD13	46:VH:298:ASN:HA	2.02	0.41
45:VI:71:GLU:HA	45:VI:72:PRO:HD3	1.89	0.41
45:VI:387:VAL:O	45:VI:391:LEU:HD23	2.20	0.41
45:VI:427:ALA:O	45:VI:430:LYS:HG2	2.21	0.41
45:VM:64:ARG:NH1	45:VM:129:CYS:SG	2.94	0.41
45:VM:141:VAL:HG12	45:VM:171:ILE:O	2.20	0.41
46:WB:19:LYS:HZ2	46:WB:227:HIS:HB2	1.85	0.41
46:WB:150:LEU:HB2	46:WB:154:LYS:HZ1	1.82	0.41
46:WB:201:VAL:HG22	46:WB:266:PHE:O	2.20	0.41
45:WC:235:ILE:O	45:WC:239:THR:HG22	2.20	0.41
45:WE:129:CYS:SG	45:WE:130:THR:N	2.94	0.41
45:WE:176:GLN:O	46:WF:331:LEU:HD21	2.21	0.41
46:WF:273:LEU:N	46:WF:292:GLN:HE22	2.14	0.41
45:WG:117:LEU:O	45:WG:121:ARG:HD3	2.21	0.41
46:WH:141:GLY:HA3	49:WH:501:GDP:O3A	2.20	0.41
46:WH:167:PHE:CE2	46:WH:200:MET:HG3	2.56	0.41
46:WJ:326:VAL:O	46:WJ:330:MET:HG2	2.19	0.41
45:WK:242:LEU:HD11	45:WK:252:ILE:HG23	2.01	0.41
46:WL:141:GLY:HA3	49:WL:501:GDP:O3A	2.21	0.41
45:CE:17:GLY:HA2	45:CE:20:CYS:SG	2.60	0.41
45:DC:98:ASP:OD1	45:DC:99:ALA:N	2.54	0.41
45:DC:335:ILE:HA	45:DC:338:LYS:NZ	2.35	0.41
2:0B:82:VAL:HG12	46:JH:355:ASP:OD2	2.19	0.41
17:1F:102:TYR:O	45:GI:31:GLN:NE2	2.54	0.41
20:1K:183:TYR:CD1	46:GD:362:LYS:HE2	2.55	0.41
21:1L:825:GLU:HA	34:7R:100:GLN:HE22	1.84	0.41
31:2I:82:VAL:HG13	45:GE:299:ALA:HB2	2.02	0.41
21:2L:359:LYS:HA	34:6R:177:VAL:HB	2.03	0.41
21:2L:525:LEU:HD12	46:BN:320:ARG:H	1.85	0.41
15:2X:3:ARG:H	46:ML:75:SER:HB2	1.84	0.41
30:3H:176:LYS:HE3	45:AE:324:VAL:CG2	2.49	0.41
14:3V:96:ASN:OD1	46:LB:261:PRO:HG2	2.20	0.41
15:3X:49:ILE:HD11	45:MM:282:TYR:HB2	2.02	0.41
35:4S:64:LEU:HB3	35:4S:107:GLU:HG2	2.02	0.41
35:4S:118:PHE:CD1	35:4S:122:GLN:NE2	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4S:144:ILE:HB	35:4S:145:PRO:HD3	2.03	0.41
36:5A:85:ARG:NH1	36:5A:86:VAL:H	2.18	0.41
36:5B:72:LYS:HD2	36:5B:73:SER:O	2.21	0.41
37:5F:9:TYR:CG	37:5F:10:PRO:HD3	2.56	0.41
34:5R:291:LYS:HA	34:5R:291:LYS:HE2	2.02	0.41
35:5S:63:ASN:OD1	35:5S:65:PHE:N	2.50	0.41
39:6F:126:LYS:O	39:6F:127:TRP:HD1	2.04	0.41
34:6R:520:PRO:C	34:6R:522:VAL:H	2.23	0.41
34:6R:542:TYR:HD2	34:6R:548:PHE:HD1	1.67	0.41
34:7R:12:LEU:C	46:LB:227:HIS:CE1	2.88	0.41
34:7R:259:ASN:HB3	34:7R:350:PHE:CZ	2.56	0.41
45:AC:371:VAL:HG12	45:AC:373:ARG:N	2.34	0.41
46:AD:21:TRP:CZ3	46:AD:61:PRO:HB3	2.55	0.41
46:AF:401:GLU:N	46:AF:401:GLU:OE1	2.54	0.41
46:AH:3:GLU:H	46:AH:3:GLU:CD	2.24	0.41
46:AH:173:PRO:CD	46:AH:380:ARG:HH21	2.34	0.41
46:AJ:91:VAL:HG21	46:AJ:116:VAL:HB	2.03	0.41
45:AM:68:LEU:HD11	45:AM:118:CYS:SG	2.61	0.41
45:BE:352:LYS:HD3	46:BH:178:THR:HG23	2.02	0.41
46:BF:58:ARG:NH2	46:CD:281:TYR:OH	2.54	0.41
45:BG:79:ARG:HE	45:BG:92:LEU:HD12	1.85	0.41
45:BG:272:TYR:HD2	45:BG:275:ILE:HD11	1.86	0.41
45:BG:298:PRO:HG3	45:BG:308:ARG:HH12	1.86	0.41
45:BI:179:THR:O	46:BJ:350:LYS:HD2	2.20	0.41
46:BJ:1:MET:HE3	46:BJ:2:ARG:H	1.86	0.41
45:BM:387:VAL:HA	45:BM:390:ARG:HG2	2.02	0.41
46:BN:213:ARG:HE	46:BN:297:LYS:HE3	1.86	0.41
46:CB:221:THR:O	46:CB:225:LEU:HG	2.20	0.41
45:CC:254:GLU:OE1	45:CC:254:GLU:N	2.54	0.41
46:CD:190:HIS:CD2	46:CD:414:ASN:HD22	2.38	0.41
46:CD:379:LYS:HE3	46:CD:379:LYS:HA	2.02	0.41
46:CF:350:LYS:NZ	45:CG:181:VAL:HG12	2.36	0.41
45:CG:88:HIS:HE1	45:DG:284:GLU:OE1	2.04	0.41
46:CH:105:HIS:CE1	46:CH:150:LEU:HD12	2.55	0.41
45:CI:148:GLY:O	45:CI:152:LEU:HD23	2.21	0.41
45:CK:384:ILE:O	45:CK:387:VAL:HG22	2.21	0.41
45:CM:205:ASP:OD1	45:CM:303:ALA:HA	2.21	0.41
46:CN:238:CYS:SG	46:CN:239:CYS:N	2.94	0.41
45:DA:184:PRO:O	45:DA:188:ILE:HG12	2.21	0.41
45:DA:186:ASN:OD1	45:DA:187:SER:N	2.54	0.41
45:DE:256:GLN:O	46:DF:397:TRP:CE2	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DE:324:VAL:O	45:DE:328:VAL:HG23	2.20	0.41
45:DG:235:ILE:O	45:DG:239:THR:HG22	2.20	0.41
46:DH:145:SER:O	46:DH:188:SER:OG	2.36	0.41
45:DI:133:GLN:HG2	45:DI:252:ILE:HB	2.03	0.41
46:DJ:109:GLY:HA2	46:DJ:147:MET:HE2	2.02	0.41
46:DJ:396:HIS:HA	46:DJ:399:THR:OG1	2.21	0.41
45:DK:54:SER:HB3	45:DK:64:ARG:HH11	1.85	0.41
45:DK:141:VAL:HG12	45:DK:171:ILE:O	2.20	0.41
45:DK:372:MET:O	45:DK:373:ARG:HD3	2.21	0.41
46:DL:251:ARG:O	46:DL:255:VAL:HG22	2.20	0.41
46:DL:336:LYS:HD3	46:DL:336:LYS:O	2.21	0.41
46:EB:210:ILE:HD11	46:EB:299:MET:O	2.20	0.41
45:EC:40:LYS:HZ1	45:EC:43:GLY:H	1.69	0.41
45:EC:206:ASN:HB3	45:EC:210:TYR:CZ	2.56	0.41
46:ED:31:ASP:OD2	46:ED:33:THR:OG1	2.36	0.41
45:EE:238:LEU:HD12	45:EE:238:LEU:HA	1.96	0.41
45:EG:52:PHE:HZ	45:EG:239:THR:HG21	1.85	0.41
45:EG:255:PHE:HE1	45:EG:378:ILE:HD12	1.84	0.41
45:EI:21:TRP:CZ2	45:EI:65:ALA:HB2	2.56	0.41
46:EL:147:MET:O	46:EL:151:LEU:HD23	2.20	0.41
46:EL:391:ARG:HA	46:EL:391:ARG:HD2	1.81	0.41
46:EN:260:PHE:HB2	46:EN:263:LEU:HD13	2.01	0.41
45:FA:171:ILE:HG22	45:FA:204:LEU:HB2	2.03	0.41
46:FB:317:PHE:CD1	46:FB:365:VAL:HG22	2.56	0.41
46:FD:27:GLU:OE2	46:FD:241:ARG:NH1	2.30	0.41
45:FG:186:ASN:OD1	45:FG:187:SER:N	2.54	0.41
45:FM:320:ARG:NH2	45:FM:360:PRO:HA	2.36	0.41
45:GA:91:GLN:OE1	45:GA:125:LEU:HD11	2.21	0.41
45:GA:209:ILE:H	45:GA:209:ILE:HG13	1.72	0.41
45:GA:352:LYS:NZ	46:GD:177:ASP:O	2.32	0.41
46:GB:58:ARG:NH1	46:GB:60:VAL:HB	2.35	0.41
46:GD:86:ARG:HG2	46:GD:88:ASP:H	1.86	0.41
45:GE:137:VAL:HG13	45:GE:168:GLY:HA2	2.02	0.41
46:GF:290:THR:HA	46:GF:293:MET:CG	2.36	0.41
45:GG:118:CYS:O	45:GG:122:ILE:HG12	2.20	0.41
45:GG:326:LYS:HA	45:GG:326:LYS:HD3	1.79	0.41
45:GI:141:VAL:HG12	45:GI:171:ILE:O	2.20	0.41
46:GL:155:VAL:HG12	46:GL:164:MET:HE1	2.03	0.41
45:HA:243:ARG:HD3	45:HA:243:ARG:H	1.86	0.41
45:HC:358:GLN:OE1	45:HC:359:PRO:HD2	2.20	0.41
46:HD:409:THR:O	46:HD:412:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HE:398:MET:CE	46:HF:346:PRO:HD2	2.47	0.41
46:HF:350:LYS:HB2	46:HF:350:LYS:HE2	1.93	0.41
45:HG:296:PHE:HE2	45:HG:335:ILE:HG21	1.84	0.41
45:HG:411:GLU:HG3	45:HG:411:GLU:O	2.20	0.41
46:HJ:202:ILE:HD11	46:HJ:268:ILE:HD11	2.02	0.41
46:HJ:229:VAL:O	46:HJ:233:MET:HG3	2.20	0.41
46:HJ:398:TYR:O	46:HJ:403:MET:HB3	2.20	0.41
45:HM:408:TYR:CD2	45:HM:418:PHE:HZ	2.38	0.41
46:HN:8:GLN:OE1	46:HN:17:GLY:HA3	2.20	0.41
46:HN:184:ASN:OD1	46:HN:185:ALA:N	2.54	0.41
46:HN:325:GLU:HA	46:HN:328:GLU:HG2	2.02	0.41
46:IB:117:LEU:HD13	46:IB:121:ARG:HH22	1.85	0.41
45:IC:91:GLN:NE2	45:IC:125:LEU:HD21	2.35	0.41
45:IC:200:VAL:HG13	45:IC:268:MET:SD	2.60	0.41
45:IE:31:GLN:HB3	45:IE:32:PRO:HD2	2.02	0.41
46:IF:391:ARG:HA	46:IF:391:ARG:HD2	1.81	0.41
46:IH:3:GLU:O	46:IH:130:LEU:HD12	2.21	0.41
45:II:18:ASN:O	45:II:22:GLU:OE1	2.39	0.41
45:II:172:TYR:CD1	45:II:173:PRO:HD2	2.53	0.41
46:IJ:3:GLU:OE2	46:IJ:127:CYS:HB2	2.21	0.41
45:IK:207:GLU:HA	45:IK:210:TYR:HD2	1.85	0.41
45:IK:224:TYR:O	45:IK:228:ASN:ND2	2.54	0.41
46:IL:226:ASN:ND2	49:IL:501:GDP:HN1	2.18	0.41
46:JB:406:MET:O	46:JB:410:GLU:OE1	2.39	0.41
45:JC:215:ARG:HB2	45:JC:215:ARG:NH1	2.35	0.41
46:JD:213:ARG:NH2	46:JD:297:LYS:O	2.54	0.41
45:JE:32:PRO:HB3	45:JE:83:TYR:CD1	2.56	0.41
45:JI:88:HIS:HB3	45:JI:91:GLN:CD	2.41	0.41
45:JK:384:ILE:O	45:JK:387:VAL:HG22	2.20	0.41
46:JL:141:GLY:HA3	49:JL:501:GDP:O3A	2.21	0.41
46:JL:173:PRO:HB3	46:JL:384:GLN:NE2	2.35	0.41
45:JM:22:GLU:OE2	45:JM:229:ARG:NH1	2.53	0.41
45:JM:308:ARG:HE	45:JM:308:ARG:HB2	1.58	0.41
45:KC:223:THR:HG23	45:KC:225:THR:H	1.85	0.41
45:KG:167:LEU:CD2	45:KG:200:VAL:HB	2.50	0.41
45:KI:296:PHE:HE2	45:KI:335:ILE:HG21	1.86	0.41
46:KJ:172:SER:HB2	46:KJ:174:LYS:NZ	2.36	0.41
45:KK:204:LEU:HD23	45:KK:204:LEU:HA	1.95	0.41
46:KL:285:THR:HG22	46:KL:288:GLU:HG2	2.03	0.41
45:KM:70:LEU:HB3	45:KM:97:GLU:O	2.21	0.41
45:KM:88:HIS:NE2	45:KM:90:GLU:HB2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LA:98:ASP:OD1	45:LA:99:ALA:N	2.53	0.41
45:LA:390:ARG:O	45:LA:394:LYS:HG2	2.21	0.41
45:LC:100:ALA:HB1	46:LD:252:LYS:HA	2.02	0.41
46:LD:42:LEU:HA	46:LD:45:GLU:HG3	2.02	0.41
46:LD:212:PHE:HE1	46:LD:220:PRO:HG2	1.85	0.41
45:LE:256:GLN:HB2	46:LH:397:TRP:CH2	2.55	0.41
45:LG:71:GLU:HA	45:LG:72:PRO:HD3	1.87	0.41
45:LK:298:PRO:HG3	45:LK:308:ARG:HE	1.86	0.41
45:LM:121:ARG:NE	45:LM:121:ARG:HA	2.34	0.41
46:MB:395:LEU:HD23	46:MB:395:LEU:HA	1.88	0.41
45:ME:244:PHE:CZ	45:ME:358:GLN:HG2	2.55	0.41
45:MG:87:PHE:HB3	45:MG:92:LEU:HD11	2.03	0.41
45:MG:301:MET:HA	45:MG:301:MET:HE2	2.03	0.41
46:MH:289:LEU:HD23	46:MH:289:LEU:HA	1.83	0.41
45:MM:102:ASN:HD22	45:MM:105:ARG:HG3	1.86	0.41
45:MM:426:ALA:O	45:MM:430:LYS:HG2	2.20	0.41
46:MN:310:TYR:CD1	46:MN:371:SER:HB3	2.55	0.41
45:NA:171:ILE:HD13	47:NA:501:GTP:HN22	1.85	0.41
45:NA:215:ARG:HH12	45:NA:300:ASN:ND2	2.16	0.41
45:NA:306:ASP:HB3	45:NA:309:HIS:ND1	2.35	0.41
45:NA:315:CYS:O	45:NA:351:PHE:HA	2.20	0.41
46:NB:68:LEU:HD23	46:NB:97:ALA:N	2.34	0.41
46:NB:245:GLN:HB3	46:NB:246:LEU:HD12	2.02	0.41
45:NC:211:ASP:O	45:NC:214:ARG:HG3	2.20	0.41
45:NC:229:ARG:NH1	45:NC:366:GLY:HA2	2.36	0.41
46:ND:168:SER:O	46:ND:201:VAL:HA	2.20	0.41
46:ND:318:ARG:HB3	46:ND:357:PRO:CA	2.49	0.41
45:NI:306:ASP:HB3	45:NI:309:HIS:ND1	2.35	0.41
46:NJ:222:TYR:O	46:NJ:226:ASN:ND2	2.54	0.41
45:NK:226:ASN:O	45:NK:230:LEU:HD23	2.20	0.41
45:NM:80:THR:O	45:NM:84:ARG:NH2	2.44	0.41
46:OB:34:GLY:HA3	46:OB:58:ARG:HH11	1.85	0.41
45:OC:177:VAL:HG11	46:OD:324:LYS:HZ3	1.82	0.41
46:OD:396:HIS:CD2	46:OD:397:TRP:CD1	3.09	0.41
46:OH:175:VAL:HG23	46:OH:175:VAL:O	2.21	0.41
46:OH:282:ARG:HH22	46:OH:289:LEU:HD12	1.86	0.41
46:OJ:362:LYS:HA	46:OJ:362:LYS:HD3	1.97	0.41
46:OJ:398:TYR:O	46:OJ:403:MET:HB2	2.19	0.41
46:OL:265:PHE:HE1	46:OL:418:LEU:HD21	1.86	0.41
46:ON:68:LEU:HB2	46:ON:96:GLY:HA2	2.01	0.41
46:ON:209:ASP:OD1	46:ON:213:ARG:NH2	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ON:253:LEU:O	46:ON:257:LEU:HD13	2.21	0.41
46:ON:269:GLY:HA2	46:ON:300:MET:HG2	2.02	0.41
46:ON:328:GLU:OE1	46:ON:329:GLN:HG3	2.21	0.41
46:ON:378:PHE:HA	46:ON:381:VAL:HG22	2.03	0.41
45:PA:179:THR:HG23	46:PB:351:SER:HB2	2.02	0.41
46:PD:9:GLY:HA2	46:PD:66:MET:O	2.21	0.41
46:PD:204:ASN:OD1	46:PD:205:GLU:N	2.54	0.41
46:PD:251:ARG:O	46:PD:255:VAL:HG22	2.20	0.41
45:PE:215:ARG:HG3	45:PE:216:ASN:OD1	2.20	0.41
46:PH:6:HIS:O	46:PH:63:ALA:HA	2.20	0.41
46:PH:68:LEU:HD23	46:PH:143:THR:OG1	2.21	0.41
46:PH:156:ARG:NH1	46:PH:159:TYR:O	2.53	0.41
46:PH:203:ASP:HB3	46:PH:205:GLU:CD	2.41	0.41
45:PI:111:GLY:O	45:PI:115:VAL:HG13	2.21	0.41
45:PI:313:MET:HE1	45:PI:346:TRP:CH2	2.56	0.41
46:PJ:372:THR:HA	46:PJ:422:TYR:CE2	2.56	0.41
45:PK:88:HIS:HE1	45:PK:90:GLU:HG2	1.85	0.41
45:PM:23:LEU:HD22	45:PM:232:ALA:HB1	2.03	0.41
46:PN:86:ARG:HE	46:PN:87:PRO:CD	2.33	0.41
46:PN:133:PHE:CD1	46:PN:155:VAL:HG11	2.56	0.41
46:QB:322:SER:HB2	45:QC:222:PRO:O	2.20	0.41
46:QD:8:GLN:NE2	46:QD:14:ASN:HA	2.35	0.41
45:QE:75:ILE:O	45:QE:79:ARG:HG2	2.21	0.41
46:QF:252:LYS:HD2	45:QG:101:ASN:ND2	2.36	0.41
46:QF:370:ASN:OD1	46:QF:422:TYR:OH	2.37	0.41
45:QG:328:VAL:O	45:QG:332:ILE:HG23	2.20	0.41
46:QH:6:HIS:HD2	46:QH:8:GLN:HB2	1.80	0.41
45:QI:74:VAL:O	45:QI:77:GLU:HG3	2.20	0.41
46:RB:19:LYS:HE2	46:RB:227:HIS:HB2	2.01	0.41
45:RC:288:VAL:HA	45:RC:291:ILE:HG22	2.02	0.41
46:RD:73:MET:CE	46:RD:92:PHE:HB3	2.49	0.41
46:RF:106:TYR:CE2	46:RF:403:MET:HB3	2.56	0.41
45:RG:10:GLY:O	45:RG:14:ILE:HG12	2.19	0.41
45:RI:36:MET:HG2	45:RI:61:HIS:HE1	1.85	0.41
45:RI:319:TYR:HB3	45:RI:323:VAL:HG21	2.02	0.41
46:RJ:210:ILE:O	46:RJ:214:THR:OG1	2.32	0.41
45:RK:261:PRO:HA	46:RL:394:PHE:HD1	1.86	0.41
46:RN:44:LEU:HD23	46:RN:44:LEU:HA	1.93	0.41
45:SA:68:LEU:HD21	45:SA:118:CYS:SG	2.60	0.41
45:SA:124:LYS:HE2	45:SA:124:LYS:HB2	1.88	0.41
46:SB:175:VAL:HG22	46:SB:205:GLU:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SC:256:GLN:O	45:SC:256:GLN:HG3	2.21	0.41
46:SD:317:PHE:HE2	46:SD:326:VAL:HG13	1.86	0.41
45:SE:31:GLN:CG	45:SE:32:PRO:HD2	2.50	0.41
46:SF:287:PRO:HG3	46:SF:329:GLN:NE2	2.34	0.41
45:SG:21:TRP:CZ3	45:SG:63:PRO:HB3	2.56	0.41
46:SH:4:ILE:HG13	46:SH:132:GLY:O	2.20	0.41
45:SK:70:LEU:O	45:SK:72:PRO:HD3	2.20	0.41
46:SL:289:LEU:HD11	46:SL:363:MET:HB3	2.02	0.41
45:SM:56:THR:HA	45:TM:285:GLN:OE1	2.21	0.41
45:SM:269:LEU:HD23	45:SM:379:SER:O	2.20	0.41
45:TA:141:VAL:HG22	45:TA:187:SER:HA	2.02	0.41
45:TA:155:GLU:HG2	45:TA:197:HIS:CD2	2.55	0.41
46:TB:153:SER:O	46:TB:157:GLU:OE1	2.37	0.41
45:TC:191:THR:HA	45:TC:194:LEU:HG	2.03	0.41
46:TD:238:CYS:SG	46:TD:239:CYS:N	2.94	0.41
46:TH:326:VAL:O	46:TH:330:MET:HG2	2.20	0.41
45:TI:8:HIS:CD2	45:TI:138:PHE:HD2	2.38	0.41
46:TJ:299:MET:HE2	46:TJ:301:CYS:HB3	2.01	0.41
45:TK:101:ASN:HA	45:TK:144:GLY:N	2.34	0.41
46:TL:213:ARG:HH21	46:TL:297:LYS:HD2	1.86	0.41
46:TN:65:LEU:HD22	46:TN:90:PHE:CE1	2.55	0.41
45:UA:210:TYR:CE1	45:UA:227:LEU:HD11	2.55	0.41
46:UD:188:SER:O	46:UD:192:LEU:HD23	2.20	0.41
46:UD:316:LEU:HB2	46:UD:366:THR:CG2	2.50	0.41
45:UE:19:ALA:HA	45:UE:22:GLU:OE1	2.20	0.41
45:UE:286:LEU:HD23	45:UE:286:LEU:O	2.20	0.41
46:UF:2:ARG:HB2	46:UF:131:GLN:CD	2.41	0.41
46:UF:180:VAL:HG23	46:UF:183:TYR:CD2	2.56	0.41
46:UF:288:GLU:O	46:UF:291:GLN:HG3	2.20	0.41
45:UG:3:GLU:HG2	45:UG:64:ARG:CZ	2.51	0.41
46:UJ:55:THR:OG1	46:VJ:280:GLN:O	2.36	0.41
45:UK:248:LEU:HD21	46:UL:177:ASP:OD1	2.21	0.41
45:UK:348:PRO:HD2	46:UL:388:MET:CE	2.51	0.41
46:UL:167:PHE:CD2	46:UL:200:MET:HG2	2.55	0.41
45:UM:31:GLN:HG2	45:UM:33:ASP:OD1	2.21	0.41
45:UM:53:PHE:O	45:UM:64:ARG:NH2	2.52	0.41
45:UM:140:SER:OG	47:UM:501:GTP:O2B	2.38	0.41
45:UM:336:LYS:HE3	45:UM:351:PHE:CZ	2.56	0.41
45:VC:3:GLU:N	45:VC:133:GLN:OE1	2.53	0.41
45:VE:104:ALA:HB2	45:VE:413:MET:HG2	2.01	0.41
45:VI:107:HIS:CD2	45:VI:151:SER:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VI:222:PRO:HD2	46:VJ:324:LYS:CD	2.49	0.41
45:VI:304:LYS:HA	45:VI:304:LYS:HD2	1.91	0.41
46:VJ:232:ALA:HB1	46:VJ:268:ILE:HD12	2.02	0.41
46:VJ:270:PHE:HD2	46:VJ:273:LEU:HD21	1.84	0.41
45:VK:219:ILE:HG22	45:VK:221:ARG:H	1.86	0.41
46:VN:286:VAL:HG13	46:VN:329:GLN:HE22	1.85	0.41
46:VN:357:PRO:HB2	46:VN:361:LEU:O	2.21	0.41
45:WA:224:TYR:HD1	45:WA:227:LEU:HD12	1.85	0.41
45:WC:110:ILE:O	45:WC:113:GLU:HG3	2.20	0.41
45:WE:279:GLU:OE2	45:WE:280:LYS:HG3	2.20	0.41
46:WH:97:ALA:HA	46:WH:103:LYS:HD2	2.02	0.41
46:WJ:175:VAL:O	46:WJ:175:VAL:HG13	2.20	0.41
46:WJ:390:ARG:CZ	46:WJ:390:ARG:HA	2.51	0.41
45:WK:205:ASP:OD2	45:WK:304:LYS:HG2	2.20	0.41
46:WL:97:ALA:HB3	46:WL:143:THR:HG22	2.03	0.41
46:WL:318:ARG:HB3	46:WL:357:PRO:HA	2.03	0.41
46:WN:61:PRO:HD3	46:WN:84:LEU:HD12	2.02	0.41
45:CE:3:GLU:OE1	45:CE:64:ARG:NH1	2.54	0.41
4:0D:39:PRO:HD2	45:DC:79:ARG:HH22	1.85	0.41
11:0S:99:GLY:N	46:MB:194:GLU:OE2	2.53	0.41
1:1A:36:ARG:NH1	45:ME:77:GLU:HG2	2.35	0.41
4:1D:93:GLN:HE22	45:EG:33:ASP:HB2	1.86	0.41
11:1S:96:LEU:HD12	46:MF:410:GLU:HG3	2.01	0.41
15:1X:49:ILE:HG12	45:ME:282:TYR:CD2	2.56	0.41
30:2H:205:GLN:HE21	45:AC:81:GLY:HA2	1.84	0.41
31:2I:134:LYS:HE2	46:GD:332:ASN:HD22	1.84	0.41
20:2K:300:ILE:HB	46:GL:276:ARG:HH22	1.84	0.41
21:2L:362:LEU:HD21	34:6R:179:ARG:HH12	1.85	0.41
23:2O:185:ARG:NH2	46:VL:276:ARG:O	2.39	0.41
23:2O:228:GLN:HE21	46:UJ:55:THR:HA	1.83	0.41
10:4Q:102:ARG:HE	45:AI:430:LYS:CE	2.34	0.41
35:4S:112:THR:C	35:4S:117:LYS:HE2	2.40	0.41
36:5B:27:LYS:CE	36:5B:30:LYS:HB2	2.47	0.41
36:5C:167:LYS:NZ	45:NK:279:GLU:HA	2.35	0.41
36:5D:19:ARG:HG2	36:5D:20:LEU:N	2.28	0.41
37:5F:67:ARG:HA	37:5F:68:PRO:HD3	1.86	0.41
37:5F:199:LYS:HB2	37:5F:204:LYS:HZ2	1.86	0.41
37:5H:27:ARG:O	45:OK:219:ILE:HD12	2.20	0.41
37:5H:123:ARG:O	37:5H:123:ARG:NH1	2.53	0.41
10:5Q:2:PHE:HD1	10:5Q:11:LEU:HD11	1.85	0.41
34:5R:601:ASP:HB3	34:5R:604:SER:OG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5S:135:ILE:HD12	35:5S:135:ILE:H	1.86	0.41
40:6G:305:THR:OG1	40:6G:306:GLU:N	2.54	0.41
40:6G:307:GLU:N	40:6G:307:GLU:OE1	2.54	0.41
34:6R:49:ASN:OD1	34:6R:50:ASP:N	2.53	0.41
34:6R:441:LYS:HA	34:6R:441:LYS:HD3	1.88	0.41
34:6R:537:LYS:HE3	34:6R:537:LYS:HB3	1.95	0.41
34:7R:219:LYS:HZ2	46:BD:78:ALA:HB3	1.85	0.41
34:7R:248:TYR:CD2	34:7R:281:ALA:HB1	2.55	0.41
34:7R:364:MET:SD	34:7R:364:MET:N	2.91	0.41
34:7R:478:ASN:HD21	34:7R:480:ILE:HB	1.86	0.41
34:7R:511:TYR:HB2	45:EA:39:ASP:HB3	2.02	0.41
45:AA:89:PRO:HD2	45:BA:280:LYS:NZ	2.34	0.41
45:AA:216:ASN:HB3	45:AA:275:ILE:O	2.20	0.41
46:AB:19:LYS:HA	46:AB:22:GLU:HG3	2.02	0.41
45:AC:152:LEU:HD12	45:AC:152:LEU:HA	1.87	0.41
45:AE:399:TYR:OH	45:AE:402:ARG:NH2	2.54	0.41
45:AG:241:SER:OG	45:AG:250:VAL:O	2.38	0.41
46:AH:391:ARG:HD2	46:AH:391:ARG:HA	1.78	0.41
46:AJ:210:ILE:O	46:AJ:214:THR:OG1	2.33	0.41
45:AK:187:SER:O	45:AK:191:THR:HG23	2.21	0.41
46:AL:306:ARG:HB2	46:AL:340:TYR:CZ	2.55	0.41
46:AN:11:GLN:O	46:AN:15:GLN:HG2	2.21	0.41
45:BA:434:GLU:O	45:BA:437:ILE:HG12	2.21	0.41
46:BB:16:ILE:HD12	46:BB:229:VAL:HG11	2.02	0.41
46:BD:113:ILE:HA	46:BD:116:VAL:HG12	2.03	0.41
46:BD:143:THR:OG1	46:BD:147:MET:HE1	2.21	0.41
45:BG:3:GLU:OE2	45:BG:130:THR:N	2.50	0.41
46:BH:210:ILE:O	46:BH:214:THR:HG22	2.21	0.41
46:BH:248:SER:HA	46:BH:252:LYS:CE	2.42	0.41
45:BI:32:PRO:HB3	45:BI:83:TYR:HE1	1.86	0.41
45:BK:251:ASP:OD1	45:BK:254:GLU:HG3	2.21	0.41
45:BK:258:ASN:ND2	45:BK:352:LYS:HD2	2.35	0.41
45:BK:434:GLU:O	45:BK:437:ILE:HG12	2.20	0.41
46:BL:54:ALA:HB3	46:BL:58:ARG:HG2	2.03	0.41
46:BL:186:THR:HA	46:BL:189:VAL:HG12	2.02	0.41
45:BM:176:GLN:NE2	45:BM:177:VAL:HG23	2.36	0.41
45:BM:315:CYS:O	45:BM:351:PHE:HA	2.21	0.41
46:BN:58:ARG:NE	46:CL:281:TYR:HE2	2.18	0.41
45:CC:107:HIS:CD2	45:CC:152:LEU:HG	2.56	0.41
46:CD:130:LEU:HB3	46:CD:162:ARG:NH2	2.35	0.41
46:CH:91:VAL:HG21	46:CH:116:VAL:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CI:115:VAL:O	45:CI:119:LEU:HD23	2.21	0.41
45:CI:330:ALA:O	45:CI:334:THR:HG23	2.20	0.41
45:CI:387:VAL:HG23	45:CI:388:PHE:HD1	1.85	0.41
45:CK:35:GLN:NE2	45:CK:60:LYS:HB3	2.35	0.41
45:CK:171:ILE:O	45:CK:171:ILE:HG13	2.19	0.41
45:CK:255:PHE:O	45:CK:259:LEU:HB2	2.21	0.41
45:DA:174:SER:HB2	45:DA:177:VAL:O	2.20	0.41
46:DB:213:ARG:NH2	46:DB:297:LYS:HB3	2.35	0.41
46:DB:251:ARG:HD3	45:DC:105:ARG:NH1	2.35	0.41
45:DE:119:LEU:O	45:DE:123:ARG:HG2	2.20	0.41
45:DE:326:LYS:HZ3	46:DF:219:THR:HA	1.85	0.41
46:DH:102:ALA:HB1	46:DH:401:GLU:HB2	2.03	0.41
45:DI:107:HIS:ND1	45:DI:107:HIS:O	2.53	0.41
45:DI:259:LEU:HD21	45:DI:316:SER:HB2	2.03	0.41
45:DI:331:SER:O	45:DI:335:ILE:HG12	2.20	0.41
45:DK:116:ASP:O	45:DK:119:LEU:HG	2.21	0.41
45:DM:76:ASP:HA	45:DM:79:ARG:HG2	2.01	0.41
46:DN:69:GLU:HA	46:DN:70:PRO:HD3	1.87	0.41
45:EC:11:GLN:HE21	47:EC:501:GTP:PB	2.43	0.41
45:EC:75:ILE:O	45:EC:79:ARG:HG2	2.20	0.41
45:EC:191:THR:HA	45:EC:194:LEU:HG	2.03	0.41
46:EF:21:TRP:CZ3	46:EF:61:PRO:HB3	2.55	0.41
46:EF:319:GLY:HA3	46:EF:362:LYS:O	2.21	0.41
46:EH:11:GLN:HB3	46:EH:72:THR:HG21	2.02	0.41
46:EH:139:LEU:HD13	46:EH:168:SER:HB3	2.01	0.41
45:EK:102:ASN:ND2	45:EK:105:ARG:HG3	2.35	0.41
45:EM:194:LEU:O	45:EM:198:THR:HG22	2.21	0.41
46:FB:391:ARG:HA	46:FB:391:ARG:HD2	1.78	0.41
45:FC:8:HIS:ND1	45:FC:17:GLY:HA3	2.36	0.41
45:FC:81:GLY:O	45:FC:84:ARG:NH1	2.50	0.41
45:FE:88:HIS:HE1	45:FE:90:GLU:OE2	2.03	0.41
46:FF:287:PRO:O	46:FF:290:THR:HG22	2.21	0.41
46:FF:317:PHE:CD1	46:FF:365:VAL:HG22	2.55	0.41
45:FG:384:ILE:O	45:FG:387:VAL:HG12	2.21	0.41
45:FK:267:PHE:CD2	45:FK:388:PHE:HZ	2.39	0.41
45:FM:68:LEU:HD21	45:FM:118:CYS:SG	2.60	0.41
45:GA:3:GLU:HG2	45:GA:64:ARG:CZ	2.50	0.41
45:GA:306:ASP:HB3	45:GA:309:HIS:ND1	2.35	0.41
46:GB:6:HIS:O	46:GB:63:ALA:HA	2.21	0.41
46:GB:214:THR:O	46:GB:216:LYS:NZ	2.53	0.41
45:GC:21:TRP:HZ2	45:GC:65:ALA:HB2	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GD:398:TYR:O	46:GD:403:MET:HB3	2.21	0.41
45:GE:245:ASP:OD1	45:GE:246:GLY:N	2.54	0.41
46:GF:378:PHE:CD1	46:GF:415:MET:HE1	2.56	0.41
45:GG:222:PRO:HD2	46:GH:324:LYS:HG2	2.02	0.41
45:GI:244:PHE:CE1	45:GI:358:GLN:HG2	2.56	0.41
46:GJ:4:ILE:HG13	46:GJ:132:GLY:O	2.20	0.41
45:GK:408:TYR:HB3	45:GK:413:MET:CE	2.51	0.41
46:GL:111:GLU:N	46:GL:111:GLU:OE2	2.54	0.41
46:GN:32:PRO:HG3	46:GN:81:PHE:CZ	2.56	0.41
46:GN:105:HIS:CE1	46:GN:150:LEU:HD12	2.56	0.41
45:HA:18:ASN:O	45:HA:22:GLU:OE1	2.37	0.41
45:HA:171:ILE:O	45:HA:171:ILE:HG13	2.21	0.41
46:HB:313:ALA:HB1	46:HB:367:PHE:HE1	1.85	0.41
45:HC:122:ILE:HD13	45:HC:157:LEU:HD21	2.03	0.41
45:HC:398:MET:SD	46:HD:345:ILE:HD12	2.60	0.41
45:HE:100:ALA:O	46:HF:255:VAL:HG11	2.21	0.41
45:HG:434:GLU:O	45:HG:437:ILE:HG12	2.21	0.41
46:HH:40:SER:H	46:HH:43:GLN:NE2	2.19	0.41
46:HH:226:ASN:ND2	49:HH:501:GDP:HN1	2.07	0.41
45:HK:3:GLU:HG3	45:HK:129:CYS:HB3	2.03	0.41
45:HK:71:GLU:HA	45:HK:72:PRO:HD3	1.88	0.41
46:HN:9:GLY:HA2	46:HN:66:MET:O	2.21	0.41
46:HN:198:GLU:HB3	46:HN:200:MET:HE3	2.01	0.41
45:IA:352:LYS:HZ2	46:ID:179:VAL:HG12	1.86	0.41
46:ID:165:GLU:HG2	46:ID:167:PHE:CE2	2.56	0.41
45:IE:21:TRP:CZ2	45:IE:65:ALA:HB2	2.55	0.41
45:IE:156:ARG:HA	45:IE:156:ARG:HD2	1.80	0.41
45:IE:387:VAL:O	45:IE:391:LEU:HD23	2.20	0.41
45:IG:239:THR:HG23	45:IG:243:ARG:HH21	1.85	0.41
45:IG:256:GLN:HB2	46:IJ:397:TRP:CH2	2.39	0.41
45:IG:329:ASN:HB3	46:IJ:175:VAL:HG12	2.03	0.41
45:IK:297:GLU:HB3	45:IK:300:ASN:ND2	2.36	0.41
45:IK:352:LYS:HE2	46:IN:178:THR:HA	2.03	0.41
46:IL:310:TYR:O	46:IL:342:VAL:HG12	2.20	0.41
45:IM:175:PRO:HG3	45:IM:390:ARG:NH1	2.36	0.41
46:IN:19:LYS:HE2	46:IN:223:GLY:O	2.20	0.41
45:JA:332:ILE:HD11	45:JA:351:PHE:CZ	2.55	0.41
45:JA:338:LYS:HZ2	45:JA:339:ARG:N	2.19	0.41
46:JB:250:LEU:H	46:JB:250:LEU:HD12	1.86	0.41
45:JC:66:VAL:HG11	45:JC:122:ILE:HD11	2.02	0.41
45:JC:118:CYS:SG	45:JC:153:LEU:HD11	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JD:115:SER:O	46:JD:119:VAL:HG23	2.21	0.41
45:JE:133:GLN:HB3	45:JE:252:ILE:HD11	2.01	0.41
45:JG:207:GLU:OE2	45:JG:304:LYS:HD3	2.21	0.41
46:JH:146:GLY:O	46:JH:149:THR:HG22	2.21	0.41
45:JI:421:ALA:O	45:JI:425:LEU:HD23	2.20	0.41
46:JJ:21:TRP:CZ3	46:JJ:61:PRO:HB3	2.56	0.41
46:JL:69:GLU:HA	46:JL:70:PRO:HD3	1.93	0.41
46:JN:391:ARG:HA	46:JN:391:ARG:HD2	1.85	0.41
45:KA:287:SER:O	45:KA:291:ILE:HG23	2.21	0.41
45:KA:318:MET:HB2	45:KA:376:CYS:HB3	2.03	0.41
46:KB:87:PRO:HA	46:KB:90:PHE:CD2	2.56	0.41
45:KE:245:ASP:N	45:KE:245:ASP:OD1	2.54	0.41
45:KE:384:ILE:O	45:KE:387:VAL:HG22	2.20	0.41
46:KH:3:GLU:HA	46:KH:49:VAL:HG23	2.02	0.41
46:KH:238:CYS:SG	46:KH:318:ARG:HD3	2.60	0.41
46:KH:407:GLU:OE1	46:KH:407:GLU:N	2.44	0.41
46:KJ:203:ASP:OD1	46:KJ:204:ASN:N	2.54	0.41
46:KJ:207:LEU:HD13	46:KJ:225:LEU:HB3	2.02	0.41
45:KK:102:ASN:ND2	45:KK:105:ARG:HG3	2.35	0.41
45:KK:149:LEU:O	45:KK:153:LEU:HD23	2.19	0.41
45:KK:326:LYS:HZ1	46:KN:220:PRO:C	2.23	0.41
45:KK:420:GLU:O	45:KK:423:GLU:HG3	2.21	0.41
46:KL:68:LEU:HD13	46:KL:112:LEU:HD13	2.02	0.41
46:KL:221:THR:OG1	46:KL:222:TYR:N	2.53	0.41
45:KM:175:PRO:HD2	45:KM:207:GLU:OE2	2.20	0.41
45:KM:324:VAL:O	45:KM:328:VAL:HG23	2.21	0.41
46:LB:310:TYR:HD2	46:LB:371:SER:HB2	1.86	0.41
46:LD:396:HIS:HA	46:LD:399:THR:OG1	2.21	0.41
45:LE:320:ARG:HD3	45:LE:360:PRO:HG3	2.01	0.41
46:LF:73:MET:SD	46:LF:90:PHE:HD1	2.43	0.41
45:LG:395:PHE:CD2	45:LG:422:ARG:HD3	2.56	0.41
45:LI:224:TYR:HD1	45:LI:227:LEU:HD12	1.85	0.41
46:LJ:156:ARG:HD2	46:LJ:156:ARG:HA	1.87	0.41
46:LL:317:PHE:HB3	46:LL:321:MET:HE1	2.03	0.41
45:LM:41:THR:HG21	45:LM:45:GLY:O	2.21	0.41
46:MB:226:ASN:HA	46:MB:229:VAL:HG12	2.03	0.41
46:MF:31:ASP:OD2	46:MF:33:THR:OG1	2.35	0.41
45:MG:11:GLN:HG3	45:MG:74:VAL:HG11	2.02	0.41
46:MH:68:LEU:HD23	46:MH:112:LEU:HD13	2.03	0.41
46:MH:200:MET:CE	46:MH:268:ILE:HD13	2.50	0.41
46:MH:311:LEU:HD12	46:MH:311:LEU:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MK:21:TRP:CH2	45:MK:63:PRO:HB3	2.55	0.41
46:ML:178:THR:HG22	46:ML:180:VAL:H	1.85	0.41
45:NA:77:GLU:OE2	46:NB:243:PRO:HB3	2.21	0.41
45:NA:141:VAL:HG12	45:NA:171:ILE:O	2.20	0.41
46:NB:162:ARG:HG3	46:NB:163:ILE:H	1.84	0.41
46:NB:252:LYS:O	46:NB:256:ASN:ND2	2.53	0.41
45:NC:346:TRP:CD1	46:NF:391:ARG:HG3	2.56	0.41
46:ND:294:PHE:CD2	46:ND:333:VAL:HG11	2.56	0.41
46:ND:306:ARG:HG2	46:ND:340:TYR:CE2	2.56	0.41
45:NE:348:PRO:HG2	46:NH:388:MET:HE3	2.01	0.41
46:NF:286:VAL:HG21	46:NF:325:GLU:HB3	2.03	0.41
45:NG:139:ASN:N	45:NG:139:ASN:OD1	2.54	0.41
45:NG:222:PRO:HG2	46:NH:324:LYS:HD3	2.01	0.41
46:NH:58:ARG:NH2	46:OH:281:TYR:HD1	2.18	0.41
45:NI:108:TYR:HA	45:NI:112:LYS:NZ	2.35	0.41
45:NI:209:ILE:CD1	45:NI:227:LEU:HD22	2.50	0.41
46:NJ:68:LEU:HD12	46:NJ:93:GLY:HA3	2.02	0.41
46:NL:178:THR:HB	46:NL:181:GLU:CG	2.51	0.41
45:NM:175:PRO:HA	45:NM:390:ARG:CZ	2.51	0.41
45:NM:224:TYR:O	45:NM:227:LEU:HG	2.20	0.41
45:OA:88:HIS:CG	45:PA:280:LYS:HE2	2.55	0.41
45:OA:196:GLU:N	45:OA:196:GLU:OE1	2.50	0.41
45:OC:183:GLU:N	45:OC:184:PRO:HD2	2.35	0.41
46:OF:113:ILE:O	46:OF:117:LEU:HD23	2.20	0.41
46:OF:325:GLU:OE2	46:OF:326:VAL:HG23	2.20	0.41
46:OH:113:ILE:HB	46:OH:117:LEU:HD23	2.02	0.41
46:OH:165:GLU:HA	46:OH:198:GLU:O	2.21	0.41
45:OM:231:ILE:O	45:OM:235:ILE:HG12	2.20	0.41
45:PA:346:TRP:CD1	46:PD:391:ARG:HG3	2.55	0.41
46:PB:101:TRP:HB3	46:PB:398:TYR:HE1	1.86	0.41
45:PC:143:GLY:HA3	47:PD:501:GTP:O2B	2.20	0.41
46:PD:19:LYS:HE2	46:PD:227:HIS:CG	2.56	0.41
45:PE:103:PHE:N	45:PE:408:TYR:HE1	2.17	0.41
45:PE:171:ILE:HG22	45:PE:204:LEU:HB2	2.02	0.41
45:PE:174:SER:HB3	45:PE:207:GLU:HB2	2.02	0.41
45:PG:164:LYS:HD3	45:PG:164:LYS:HA	1.81	0.41
45:PK:217:LEU:HD13	45:PK:277:SER:HB3	2.02	0.41
46:PL:45:GLU:OE2	46:PL:45:GLU:N	2.37	0.41
46:PL:133:PHE:HB2	46:PL:164:MET:HE2	2.02	0.41
46:PL:186:THR:HA	46:PL:189:VAL:HG12	2.02	0.41
46:QH:55:THR:HG23	46:RH:283:ALA:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QH:134:GLN:O	46:QH:135:ILE:HD13	2.20	0.41
45:QI:8:HIS:HB2	45:QI:67:PHE:HD1	1.84	0.41
45:QI:408:TYR:HB3	45:QI:413:MET:HE2	2.01	0.41
46:QJ:304:ASP:CG	46:QJ:307:HIS:HD1	2.24	0.41
46:QL:324:LYS:O	46:QL:327:ASP:OD1	2.39	0.41
45:QM:216:ASN:HB3	45:QM:275:ILE:O	2.20	0.41
46:RB:207:LEU:HB3	46:RB:225:LEU:HD22	2.01	0.41
45:RC:136:LEU:HD11	45:RC:138:PHE:HE2	1.85	0.41
45:RC:258:ASN:O	46:RD:179:VAL:HG21	2.21	0.41
46:RD:391:ARG:HA	46:RD:391:ARG:HD2	1.90	0.41
45:RE:284:GLU:OE1	45:RE:284:GLU:N	2.53	0.41
45:RG:171:ILE:HD12	47:RG:501:GTP:H1'	2.02	0.41
45:RG:319:TYR:CE1	45:RG:328:VAL:HG22	2.55	0.41
46:RH:100:ASN:HB3	46:RH:103:LYS:HB3	2.01	0.41
45:RI:289:ALA:O	45:RI:292:THR:HG22	2.21	0.41
45:RK:258:ASN:HD21	46:RL:178:THR:HG23	1.85	0.41
45:RK:424:ASP:O	45:RK:428:LEU:HD23	2.21	0.41
46:RL:24:ILE:HD13	46:RL:27:GLU:OE2	2.20	0.41
45:RM:377:MET:SD	45:RM:379:SER:HB3	2.60	0.41
46:SB:268:ILE:HG22	46:SB:368:VAL:HA	2.03	0.41
46:SD:6:HIS:CE1	46:SD:8:GLN:HE21	2.38	0.41
46:SD:24:ILE:HG13	46:SD:28:HIS:HD2	1.86	0.41
46:SD:204:ASN:N	46:SD:204:ASN:ND2	2.68	0.41
46:SD:327:ASP:O	46:SD:330:MET:HG3	2.20	0.41
46:SF:414:ASN:O	46:SF:418:LEU:HD23	2.20	0.41
46:SH:152:ILE:HA	46:SH:155:VAL:HG22	2.02	0.41
45:SI:229:ARG:NH1	45:SI:366:GLY:HA2	2.34	0.41
46:SJ:215:LEU:CD2	46:SJ:217:LEU:HB2	2.50	0.41
46:SL:414:ASN:O	46:SL:418:LEU:HD23	2.20	0.41
46:TB:406:MET:O	46:TB:410:GLU:HG3	2.20	0.41
45:TC:67:PHE:HB2	45:TC:92:LEU:HD23	2.01	0.41
45:TC:205:ASP:OD2	45:TC:304:LYS:N	2.38	0.41
46:TD:143:THR:HG23	46:TD:144:GLY:H	1.85	0.41
46:TF:324:LYS:HB3	45:TG:210:TYR:CE2	2.55	0.41
45:TG:326:LYS:NZ	46:TH:219:THR:HA	2.32	0.41
45:TI:116:ASP:O	45:TI:119:LEU:HG	2.20	0.41
45:TI:174:SER:OG	45:TI:207:GLU:HB2	2.20	0.41
45:TI:245:ASP:N	45:TI:245:ASP:OD1	2.53	0.41
45:TI:305:CYS:SG	45:TI:306:ASP:N	2.93	0.41
46:TJ:380:ARG:HA	46:TJ:383:GLU:OE1	2.21	0.41
45:TK:215:ARG:HD2	45:TK:215:ARG:HA	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TK:326:LYS:HD2	46:TL:220:PRO:HB2	2.02	0.41
45:TM:221:ARG:HA	45:TM:221:ARG:CZ	2.50	0.41
45:TM:229:ARG:HH12	45:TM:363:VAL:CG1	2.34	0.41
45:UA:141:VAL:HG22	45:UA:187:SER:HA	2.03	0.41
45:UA:141:VAL:HG11	45:UA:172:TYR:HD1	1.86	0.41
46:UB:361:LEU:HD23	46:UB:361:LEU:HA	1.90	0.41
45:UC:68:LEU:HD13	45:UC:93:ILE:HB	2.03	0.41
45:UC:80:THR:HA	45:UC:84:ARG:NH2	2.36	0.41
45:UC:425:LEU:HA	45:UC:425:LEU:HD23	1.81	0.41
46:UD:20:PHE:O	46:UD:24:ILE:HG12	2.21	0.41
46:UD:204:ASN:ND2	49:UD:501:GDP:O2'	2.52	0.41
45:UE:9:VAL:HG13	45:UE:139:ASN:HB3	2.02	0.41
45:UE:98:ASP:OD1	45:UE:99:ALA:N	2.54	0.41
45:UE:206:ASN:O	45:UE:209:ILE:HG22	2.21	0.41
46:UF:246:LEU:HD22	45:UG:179:THR:HG21	2.03	0.41
45:UM:88:HIS:ND1	45:UM:90:GLU:HG3	2.35	0.41
45:VA:319:TYR:CB	45:VA:323:VAL:HG11	2.51	0.41
46:VB:83:GLN:NE2	46:VB:84:LEU:HD22	2.35	0.41
46:VB:377:MET:SD	46:VB:377:MET:N	2.92	0.41
46:VD:121:ARG:O	46:VD:125:GLU:OE1	2.39	0.41
46:VF:267:MET:CE	46:VF:301:CYS:HB2	2.49	0.41
46:VL:3:GLU:H	46:VL:3:GLU:CD	2.23	0.41
45:VM:115:VAL:HG22	45:VM:119:LEU:HD23	2.03	0.41
46:VN:406:MET:O	46:VN:410:GLU:HG2	2.21	0.41
45:WA:268:MET:HE1	45:WA:378:ILE:HG22	2.02	0.41
45:WC:73:THR:HG22	46:WD:46:ARG:HH12	1.85	0.41
46:WD:294:PHE:HE1	46:WD:367:PHE:CE1	2.38	0.41
46:WF:261:PRO:O	46:WF:264:HIS:HD2	2.04	0.41
45:WG:21:TRP:CZ2	45:WG:65:ALA:HB2	2.56	0.41
46:WH:73:MET:O	46:WH:77:ARG:HG3	2.21	0.41
45:WI:221:ARG:CA	46:WJ:324:LYS:HZ1	2.23	0.41
45:WK:88:HIS:ND1	45:WK:90:GLU:HG3	2.35	0.41
45:WK:311:LYS:N	45:WK:382:THR:OG1	2.54	0.41
45:WM:8:HIS:HB2	45:WM:67:PHE:HD2	1.83	0.41
45:DC:3:GLU:N	45:DC:133:GLN:OE1	2.52	0.41
45:DC:182:VAL:HG22	45:DC:185:TYR:HB2	2.02	0.41
45:DC:196:GLU:HG2	45:DC:197:HIS:CD2	2.55	0.41
11:OS:97:ARG:HH21	46:MB:262:ARG:NH1	2.18	0.41
14:OV:69:SER:O	46:LN:121:ARG:HD3	2.21	0.41
22:1M:40:LYS:NZ	45:JC:279:GLU:OE2	2.53	0.41
23:1O:163:LYS:HZ3	45:UE:278:ALA:HB3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1P:362:LYS:NZ	46:TB:357:PRO:O	2.53	0.41
27:2C:25:LYS:HZ2	45:LI:364:PRO:N	2.18	0.41
4:2D:216:GLN:OE1	34:5R:431:ILE:HD12	2.20	0.41
14:2V:113:ARG:HE	45:LE:263:PRO:HB2	1.86	0.41
14:2V:122:LYS:HE2	46:LH:390:ARG:NH2	2.36	0.41
23:3O:296:LYS:HG2	46:UL:360:GLY:HA2	2.02	0.41
23:3O:343:ALA:HB2	46:UJ:359:LYS:HZ2	1.84	0.41
34:4R:248:TYR:CD1	34:4R:281:ALA:HB1	2.56	0.41
35:4S:69:TYR:CD2	35:4S:116:TYR:HE1	2.39	0.41
36:5A:78:SER:C	46:NB:320:ARG:HH21	2.24	0.41
36:5C:32:ALA:HB2	36:5C:46:ILE:O	2.20	0.41
37:5E:154:TYR:CE2	37:5F:11:TRP:CE2	3.08	0.41
37:5F:19:LEU:HA	37:5F:22:LYS:HE2	2.02	0.41
37:5G:88:HIS:ND1	37:5G:89:LYS:HE3	2.35	0.41
34:5R:29:GLN:HA	46:LJ:74:ASP:OD2	2.20	0.41
34:5R:213:LYS:HD2	34:5R:213:LYS:HA	1.86	0.41
34:5R:553:ILE:HG13	34:5R:606:PHE:CE1	2.54	0.41
39:6F:19:SER:O	39:6F:20:THR:HB	2.20	0.41
40:6G:241:LYS:CE	46:VD:336:LYS:HD2	2.47	0.41
34:6R:245:LEU:HD11	34:6R:249:LEU:HD12	2.03	0.41
34:6R:456:TYR:OH	45:EM:46:ASP:HB3	2.21	0.41
34:7R:296:GLY:HA3	46:DB:276:ARG:HB3	2.03	0.41
44:8R:199:ALA:HA	44:8R:202:TYR:CE1	2.55	0.41
45:AA:88:HIS:HA	45:BA:280:LYS:HZ3	1.85	0.41
45:AA:283:HIS:ND1	45:MA:89:PRO:HD3	2.36	0.41
46:AB:1:MET:O	46:AB:2:ARG:HG2	2.20	0.41
45:AC:47:ASP:HB2	45:AC:50:ASN:HB2	2.03	0.41
45:AC:88:HIS:ND1	45:AC:89:PRO:HD2	2.35	0.41
45:AC:275:ILE:HG23	45:AC:368:LEU:HD11	2.03	0.41
45:AC:387:VAL:HA	45:AC:390:ARG:HG2	2.01	0.41
46:AD:215:LEU:HB3	46:AD:217:LEU:HD23	2.02	0.41
46:AF:288:GLU:O	46:AF:291:GLN:HG3	2.21	0.41
46:AF:360:GLY:O	46:AF:361:LEU:HD22	2.21	0.41
46:AH:3:GLU:HG3	46:AH:62:ARG:NH1	2.36	0.41
45:AI:176:GLN:O	46:AJ:347:ASN:ND2	2.53	0.41
45:AI:222:PRO:HD2	46:AJ:324:LYS:HD2	2.02	0.41
46:AJ:281:TYR:CD1	46:MJ:86:ARG:HG3	2.46	0.41
46:AL:258:ILE:HD11	46:AL:266:PHE:HZ	1.86	0.41
45:AM:174:SER:HB2	45:AM:177:VAL:HB	2.02	0.41
45:BA:221:ARG:CZ	45:BA:221:ARG:HA	2.50	0.41
46:BB:319:GLY:HA3	46:BB:363:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BD:139:LEU:HD13	46:BD:168:SER:HB3	2.01	0.41
45:BE:141:VAL:HG11	45:BE:172:TYR:CD1	2.56	0.41
46:BF:376:GLU:OE1	46:BF:380:ARG:HD2	2.21	0.41
46:BH:178:THR:HG22	46:BH:179:VAL:N	2.36	0.41
45:BK:138:PHE:CE2	45:BK:169:PHE:HD2	2.39	0.41
46:BL:21:TRP:CZ3	46:BL:61:PRO:HB3	2.56	0.41
45:BM:96:LYS:HE3	45:BM:96:LYS:HB3	1.95	0.41
46:BN:69:GLU:HA	46:BN:70:PRO:HD3	1.85	0.41
45:CA:434:GLU:O	45:CA:437:ILE:HG12	2.20	0.41
46:CB:178:THR:HG22	46:CB:180:VAL:H	1.85	0.41
46:CB:324:LYS:HZ1	45:CC:221:ARG:HD3	1.86	0.41
46:CD:208:TYR:CE2	46:CD:225:LEU:HD11	2.56	0.41
46:CF:54:ALA:HB1	46:DF:280:GLN:O	2.21	0.41
46:CF:69:GLU:OE2	46:CF:72:THR:HG23	2.21	0.41
46:CF:266:PHE:HE1	46:CF:370:ASN:HB2	1.85	0.41
45:CG:60:LYS:HG2	45:CG:61:HIS:N	2.36	0.41
46:CH:149:THR:HA	46:CH:152:ILE:HD12	2.02	0.41
46:CJ:346:PRO:HD2	45:CK:398:MET:SD	2.61	0.41
46:CL:70:PRO:HA	46:CL:73:MET:HE3	2.03	0.41
46:CL:350:LYS:HA	46:CL:350:LYS:HE2	2.03	0.41
45:CM:429:GLU:O	45:CM:433:GLU:OE1	2.37	0.41
46:CN:145:SER:HB2	46:CN:188:SER:HB3	2.02	0.41
45:DE:123:ARG:HA	45:DE:123:ARG:HH11	1.86	0.41
46:DH:21:TRP:CZ3	46:DH:61:PRO:HB3	2.55	0.41
46:DH:165:GLU:HB2	46:DH:198:GLU:OE2	2.20	0.41
46:DH:213:ARG:HG3	46:DH:214:THR:HG23	2.01	0.41
45:DI:20:CYS:SG	45:DI:21:TRP:HD1	2.44	0.41
45:DK:74:VAL:HG23	45:DK:75:ILE:HD12	2.02	0.41
46:DL:213:ARG:HH12	46:DL:297:LYS:HB3	1.84	0.41
45:DM:152:LEU:HD13	45:DM:155:GLU:OE2	2.21	0.41
45:DM:207:GLU:OE1	45:DM:207:GLU:N	2.37	0.41
45:DM:419:SER:O	45:DM:422:ARG:N	2.53	0.41
45:EA:68:LEU:HD21	45:EA:118:CYS:SG	2.61	0.41
45:EC:133:GLN:HB3	45:EC:252:ILE:HG21	2.03	0.41
45:EC:338:LYS:HA	45:EC:338:LYS:HD2	1.85	0.41
46:ED:6:HIS:O	46:ED:7:ILE:HD13	2.20	0.41
46:ED:69:GLU:HA	46:ED:70:PRO:HD3	1.83	0.41
46:ED:201:VAL:HG12	46:ED:266:PHE:O	2.20	0.41
46:ED:254:ALA:O	46:ED:258:ILE:HG12	2.20	0.41
45:EE:434:GLU:O	45:EE:437:ILE:HG22	2.20	0.41
46:EF:258:ILE:HG13	46:EF:258:ILE:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:324:LYS:O	46:EF:327:ASP:N	2.53	0.41
46:EH:16:ILE:HD13	46:EH:226:ASN:OD1	2.21	0.41
45:EI:338:LYS:HE3	45:EI:340:THR:HG22	2.02	0.41
46:EL:12:CYS:HA	46:EL:15:GLN:NE2	2.36	0.41
45:EM:136:LEU:HD23	45:EM:167:LEU:HB2	2.03	0.41
46:FB:11:GLN:O	46:FB:15:GLN:HG2	2.21	0.41
46:FB:217:LEU:HD23	46:FB:217:LEU:H	1.85	0.41
46:FB:345:ILE:O	46:FB:345:ILE:HG23	2.20	0.41
46:FD:139:LEU:HD13	46:FD:168:SER:HB3	2.03	0.41
46:FD:208:TYR:CE2	46:FD:225:LEU:HD11	2.55	0.41
45:FE:185:TYR:HE1	45:FE:398:MET:HB3	1.86	0.41
46:FF:310:TYR:HB2	46:FF:341:PHE:HD2	1.86	0.41
46:FH:69:GLU:HA	46:FH:70:PRO:HD3	1.91	0.41
46:FL:116:VAL:HA	46:FL:119:VAL:HG12	2.03	0.41
45:FM:217:LEU:HD21	45:FM:368:LEU:HD22	2.02	0.41
46:FN:174:LYS:HB3	46:FN:205:GLU:OE1	2.21	0.41
45:GA:326:LYS:HD2	45:GA:326:LYS:HA	1.92	0.41
46:GB:327:ASP:HA	46:GB:330:MET:HE3	2.03	0.41
45:GE:268:MET:HG3	45:GE:380:ASN:HB2	2.03	0.41
45:GE:434:GLU:O	45:GE:437:ILE:HG12	2.21	0.41
45:GI:434:GLU:O	45:GI:437:ILE:HG12	2.21	0.41
45:GK:229:ARG:CZ	45:GK:366:GLY:HA2	2.51	0.41
45:GK:336:LYS:HA	45:GK:336:LYS:HD3	1.89	0.41
45:GK:343:PHE:CZ	45:GK:351:PHE:HE2	2.39	0.41
45:GM:268:MET:HB2	45:GM:379:SER:O	2.21	0.41
46:HB:273:LEU:N	46:HB:292:GLN:HE22	2.15	0.41
45:HC:216:ASN:HB3	45:HC:275:ILE:O	2.21	0.41
45:HC:313:MET:HB3	45:HC:380:ASN:O	2.21	0.41
46:HD:3:GLU:O	46:HD:130:LEU:HD12	2.21	0.41
46:HD:97:ALA:O	46:HD:103:LYS:HD2	2.20	0.41
46:HD:186:THR:OG1	46:HD:415:MET:SD	2.58	0.41
46:HD:288:GLU:O	46:HD:291:GLN:HG3	2.21	0.41
46:HH:396:HIS:O	46:HH:399:THR:OG1	2.30	0.41
45:HK:331:SER:O	45:HK:335:ILE:HG12	2.21	0.41
45:HM:328:VAL:HG11	45:HM:353:VAL:HG21	2.02	0.41
46:HN:287:PRO:O	46:HN:290:THR:HG22	2.21	0.41
45:IA:9:VAL:HG21	45:IA:149:LEU:HB2	2.02	0.41
45:IA:350:GLY:HA2	46:ID:179:VAL:HG23	2.03	0.41
45:IA:386:GLU:OE2	45:IA:386:GLU:N	2.54	0.41
45:IC:33:ASP:HA	45:IC:85:GLN:HE21	1.85	0.41
45:IC:337:THR:O	45:IC:339:ARG:NE	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IC:387:VAL:HA	45:IC:390:ARG:HG2	2.03	0.41
45:IE:3:GLU:OE2	45:IE:129:CYS:HB3	2.21	0.41
45:IE:141:VAL:HG22	45:IE:187:SER:HA	2.02	0.41
46:IF:9:GLY:HA2	46:IF:66:MET:O	2.21	0.41
46:IJ:66:MET:HA	46:IJ:91:VAL:O	2.20	0.41
46:IJ:217:LEU:HD11	46:IJ:220:PRO:HB3	2.03	0.41
46:IJ:316:LEU:HB2	46:IJ:366:THR:CG2	2.51	0.41
46:IJ:316:LEU:HB2	46:IJ:366:THR:HG22	2.02	0.41
46:IJ:324:LYS:HA	46:IJ:324:LYS:HD2	1.81	0.41
45:IK:259:LEU:HD11	45:IK:316:SER:HB3	2.01	0.41
46:IN:377:MET:O	46:IN:381:VAL:HG22	2.21	0.41
46:JB:418:LEU:O	46:JB:422:TYR:HB2	2.21	0.41
45:JC:152:LEU:HD12	45:JC:152:LEU:HA	1.86	0.41
46:JF:161:ASP:OD1	46:JF:162:ARG:HG2	2.21	0.41
46:JF:382:ALA:HB2	46:JF:415:MET:HE1	2.02	0.41
46:JL:263:LEU:HA	46:JL:422:TYR:HE2	1.86	0.41
46:JL:406:MET:CE	46:NL:306:ARG:HB2	2.50	0.41
45:KA:109:THR:HB	45:KA:110:ILE:HD12	2.03	0.41
45:KA:269:LEU:H	45:KA:269:LEU:HD23	1.86	0.41
46:KB:238:CYS:SG	46:KB:318:ARG:HD3	2.61	0.41
46:KB:374:ILE:HG23	46:KB:378:PHE:HE2	1.85	0.41
46:KB:423:GLN:O	46:KB:426:GLN:HG3	2.20	0.41
45:KC:174:SER:HB3	45:KC:177:VAL:O	2.21	0.41
45:KE:21:TRP:CH2	45:KE:63:PRO:HB3	2.55	0.41
45:KE:287:SER:O	45:KE:291:ILE:HG23	2.21	0.41
46:KL:109:GLY:HA2	46:KL:147:MET:CE	2.51	0.41
46:KN:9:GLY:HA2	46:KN:66:MET:O	2.21	0.41
46:KN:146:GLY:O	46:KN:149:THR:HG22	2.20	0.41
46:KN:172:SER:HB2	46:KN:174:LYS:NZ	2.36	0.41
46:KN:406:MET:O	46:KN:410:GLU:OE1	2.38	0.41
45:LA:40:LYS:O	45:LA:41:THR:HG22	2.20	0.41
46:LB:156:ARG:HG3	46:LB:195:ASN:HB3	2.02	0.41
46:LB:420:SER:O	46:LB:423:GLN:HG3	2.20	0.41
46:LF:309:ARG:NH2	46:LF:339:SER:O	2.53	0.41
45:LG:221:ARG:HH22	46:LH:321:MET:HA	1.84	0.41
45:LG:330:ALA:O	45:LG:334:THR:HG23	2.21	0.41
46:LL:244:GLY:HA2	46:LL:355:ASP:OD1	2.20	0.41
45:LM:384:ILE:O	45:LM:387:VAL:HG22	2.21	0.41
45:MC:175:PRO:HB2	45:MC:176:GLN:OE1	2.21	0.41
45:ME:174:SER:OG	45:ME:207:GLU:HB2	2.21	0.41
45:ME:313:MET:HB2	45:ME:380:ASN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MI:377:MET:SD	45:MI:379:SER:HB3	2.61	0.41
45:NA:422:ARG:HA	45:NA:422:ARG:HD2	1.79	0.41
46:NB:391:ARG:HA	46:NB:391:ARG:HD2	1.77	0.41
45:NC:136:LEU:HD13	45:NC:167:LEU:HB2	2.03	0.41
45:NC:181:VAL:HG13	45:NC:182:VAL:HG13	2.03	0.41
45:NC:407:TRP:CZ3	46:ND:255:VAL:HA	2.56	0.41
45:NE:89:PRO:HG2	45:OE:280:LYS:HZ3	1.86	0.41
46:NF:396:HIS:HA	46:NF:399:THR:OG1	2.21	0.41
47:NG:501:GTP:O1G	46:NH:252:LYS:NZ	2.51	0.41
45:NI:203:MET:HG3	45:NI:384:ILE:HD11	2.03	0.41
45:NI:318:MET:O	45:NI:375:VAL:HA	2.21	0.41
45:NK:352:LYS:HD2	45:NK:353:VAL:N	2.35	0.41
46:NL:42:LEU:HA	46:NL:45:GLU:OE2	2.20	0.41
46:NL:145:SER:HB2	46:NL:188:SER:OG	2.21	0.41
45:NM:239:THR:HG23	45:NM:243:ARG:HH21	1.85	0.41
45:NM:306:ASP:HB3	45:NM:309:HIS:ND1	2.36	0.41
46:NN:16:ILE:HD11	46:NN:229:VAL:CG1	2.50	0.41
45:OA:296:PHE:HE2	45:OA:335:ILE:HG21	1.85	0.41
45:OC:81:GLY:O	45:OC:84:ARG:HG3	2.21	0.41
45:OC:398:MET:HE1	46:OD:346:PRO:HD2	2.03	0.41
45:OE:286:LEU:HD12	45:OE:371:VAL:HG11	2.02	0.41
45:OI:222:PRO:O	46:OJ:322:SER:HB2	2.20	0.41
46:OJ:298:ASN:C	46:OJ:298:ASN:HD22	2.22	0.41
46:OJ:372:THR:HG21	46:OJ:426:GLN:HG3	2.02	0.41
45:OK:318:MET:N	45:OK:318:MET:SD	2.94	0.41
46:OL:97:ALA:O	46:OL:103:LYS:HE3	2.20	0.41
46:ON:200:MET:SD	46:ON:266:PHE:HB2	2.60	0.41
46:PB:65:LEU:HD22	46:PB:90:PHE:CE1	2.56	0.41
46:PB:87:PRO:HA	46:PB:90:PHE:HD2	1.86	0.41
45:PC:84:ARG:HH11	45:PC:85:GLN:HE22	1.69	0.41
45:PC:221:ARG:HA	46:PD:325:GLU:OE2	2.21	0.41
45:PC:223:THR:C	46:PD:324:LYS:HZ1	2.24	0.41
45:PC:426:ALA:HB1	45:PC:430:LYS:NZ	2.36	0.41
46:PD:234:SER:O	46:PD:241:ARG:NH2	2.54	0.41
46:PD:312:THR:HG22	46:PD:370:ASN:HB3	2.02	0.41
46:PF:286:VAL:HG12	46:PF:329:GLN:OE1	2.21	0.41
46:PH:16:ILE:HD13	46:PH:226:ASN:OD1	2.20	0.41
45:PI:10:GLY:O	45:PI:14:ILE:HG12	2.21	0.41
45:PI:320:ARG:HB2	45:PI:358:GLN:O	2.20	0.41
46:PJ:285:THR:OG1	46:PJ:287:PRO:HD2	2.21	0.41
45:PK:107:HIS:O	45:PK:107:HIS:ND1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PK:345:ASP:OD2	45:PK:439:THR:HG22	2.21	0.41
46:PL:16:ILE:HD13	46:PL:226:ASN:OD1	2.20	0.41
46:QB:409:THR:O	46:QB:412:GLU:HG3	2.21	0.41
45:QE:268:MET:CE	45:QE:378:ILE:HG22	2.51	0.41
45:QE:411:GLU:N	45:QE:411:GLU:OE2	2.53	0.41
46:QF:375:GLN:HG3	46:QF:419:VAL:HG13	2.01	0.41
45:QG:21:TRP:CZ3	45:QG:63:PRO:HB3	2.56	0.41
45:QG:238:LEU:HD21	45:QG:378:ILE:HD11	2.03	0.41
45:QG:258:ASN:CB	45:QG:352:LYS:HE2	2.46	0.41
46:QH:145:SER:HB2	46:QH:188:SER:OG	2.21	0.41
46:QJ:12:CYS:O	46:QJ:16:ILE:HG12	2.20	0.41
46:QL:345:ILE:HD11	45:QM:401:LYS:NZ	2.35	0.41
46:QN:3:GLU:HG3	46:QN:62:ARG:HH12	1.86	0.41
46:QN:273:LEU:H	46:QN:292:GLN:NE2	2.11	0.41
46:RB:136:THR:HA	46:RB:167:PHE:HB2	2.02	0.41
46:RB:187:LEU:HD11	46:RB:408:PHE:CE1	2.55	0.41
45:RC:109:THR:HB	45:RC:110:ILE:HD12	2.03	0.41
45:RC:394:LYS:HA	45:RC:394:LYS:HD3	1.88	0.41
46:RD:134:GLN:O	46:RD:135:ILE:HD13	2.20	0.41
46:RD:173:PRO:HG2	46:RD:380:ARG:HD3	2.01	0.41
46:RD:175:VAL:HG23	46:RD:175:VAL:O	2.21	0.41
46:RD:222:TYR:O	46:RD:226:ASN:ND2	2.34	0.41
45:RE:129:CYS:SG	45:RE:132:LEU:HB3	2.60	0.41
46:RF:52:ASN:ND2	46:RF:62:ARG:HE	2.19	0.41
46:RF:374:ILE:HG22	46:RF:378:PHE:HE2	1.85	0.41
46:RH:280:GLN:HG2	46:RH:281:TYR:CD1	2.52	0.41
46:RH:330:MET:HA	46:RH:333:VAL:HG12	2.03	0.41
46:RJ:210:ILE:HD11	46:RJ:299:MET:O	2.21	0.41
46:RJ:347:ASN:HD21	45:RK:178:SER:HB3	1.86	0.41
45:RK:169:PHE:HB3	45:RK:204:LEU:HD11	2.02	0.41
45:RK:345:ASP:N	45:RK:345:ASP:OD1	2.54	0.41
46:RL:14:ASN:OD1	46:RL:65:LEU:HG	2.21	0.41
46:RL:88:ASP:OD1	46:RL:88:ASP:N	2.52	0.41
46:RN:3:GLU:HG3	46:RN:62:ARG:HH12	1.86	0.41
46:RN:276:ARG:HA	46:RN:276:ARG:HD3	1.91	0.41
45:SC:268:MET:HB3	45:SC:268:MET:HE3	1.88	0.41
46:SD:73:MET:HA	46:SD:76:VAL:HG12	2.03	0.41
46:SD:131:GLN:O	46:SD:163:ILE:HG12	2.20	0.41
46:SD:243:PRO:HB3	45:SE:77:GLU:OE2	2.21	0.41
46:SD:345:ILE:HD12	45:SE:398:MET:HE1	2.02	0.41
45:SE:258:ASN:HD22	45:SE:352:LYS:HD3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:204:ASN:O	46:SF:208:TYR:HD1	2.04	0.41
45:SG:288:VAL:O	45:SG:292:THR:HG23	2.21	0.41
46:SH:293:MET:HG3	46:SH:365:VAL:HG11	2.01	0.41
45:SI:51:THR:HG22	45:SI:52:PHE:CD2	2.55	0.41
45:SI:431:ASP:O	45:SI:434:GLU:HG3	2.21	0.41
46:SJ:20:PHE:HA	46:SJ:230:SER:OG	2.20	0.41
46:SJ:156:ARG:HH11	46:SJ:164:MET:HG3	1.86	0.41
45:SK:316:SER:HA	45:SK:352:LYS:O	2.21	0.41
46:SL:1:MET:HE1	45:SM:96:LYS:HD3	2.03	0.41
46:SL:276:ARG:HD2	46:SL:276:ARG:HA	1.76	0.41
46:SL:375:GLN:HG3	46:SL:422:TYR:CE2	2.55	0.41
45:SM:141:VAL:HG11	45:SM:172:TYR:HA	2.02	0.41
46:TB:417:ASP:O	46:TB:421:GLU:OE1	2.39	0.41
46:TD:3:GLU:HG2	46:TD:48:ASN:O	2.20	0.41
46:TD:175:VAL:O	46:TD:175:VAL:HG23	2.21	0.41
46:TD:407:GLU:O	46:TD:410:GLU:HG3	2.20	0.41
45:TE:88:HIS:CD2	45:UE:280:LYS:HZ3	2.38	0.41
45:TE:422:ARG:HA	45:TE:422:ARG:NE	2.36	0.41
46:TF:4:ILE:HG13	46:TF:132:GLY:O	2.19	0.41
46:TF:316:LEU:HB2	46:TF:366:THR:CG2	2.51	0.41
45:TG:141:VAL:HG11	45:TG:172:TYR:HA	2.02	0.41
45:TG:203:MET:HA	45:TG:203:MET:CE	2.51	0.41
46:TJ:389:PHE:O	46:TJ:392:LYS:HD3	2.21	0.41
45:TM:186:ASN:OD1	45:TM:187:SER:N	2.54	0.41
45:UA:101:ASN:HA	45:UA:144:GLY:H	1.86	0.41
46:UD:424:GLN:HG2	46:UD:425:TYR:HD2	1.86	0.41
46:UF:113:ILE:HD13	46:UF:150:LEU:HD21	2.03	0.41
46:UF:158:GLU:C	46:UF:159:TYR:HD1	2.24	0.41
45:UI:339:ARG:NE	45:UI:339:ARG:HA	2.36	0.41
46:UJ:121:ARG:HG3	46:UJ:122:LYS:N	2.35	0.41
46:UJ:406:MET:O	46:UJ:410:GLU:OE1	2.39	0.41
46:UL:20:PHE:O	46:UL:24:ILE:HG12	2.20	0.41
45:VA:178:SER:OG	46:VB:347:ASN:HB3	2.21	0.41
46:VB:58:ARG:HH21	46:WB:281:TYR:HA	1.86	0.41
46:VB:118:ASP:HA	46:VB:121:ARG:HH11	1.85	0.41
46:VD:221:THR:HG23	46:VD:223:GLY:H	1.85	0.41
46:VD:333:VAL:HA	46:VD:336:LYS:HG2	2.03	0.41
46:VH:117:LEU:HD13	46:VH:121:ARG:HH22	1.85	0.41
45:VI:101:ASN:HA	45:VI:144:GLY:H	1.85	0.41
45:VI:319:TYR:HB3	45:VI:323:VAL:HG11	2.03	0.41
46:VJ:154:LYS:O	46:VJ:157:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VJ:222:TYR:HE1	49:VJ:501:GDP:C4	2.39	0.41
45:VK:141:VAL:HG11	45:VK:172:TYR:HA	2.03	0.41
45:VK:212:ILE:HD11	45:VK:300:ASN:HA	2.03	0.41
45:VK:221:ARG:HA	46:VL:324:LYS:HE3	2.03	0.41
45:VK:333:ALA:O	45:VK:337:THR:HG23	2.20	0.41
45:VK:338:LYS:CD	45:VK:340:THR:HG22	2.49	0.41
46:VL:116:VAL:HA	46:VL:119:VAL:HG12	2.03	0.41
45:VM:174:SER:HB2	45:VM:177:VAL:O	2.21	0.41
46:VN:105:HIS:CE1	46:VN:150:LEU:HD12	2.55	0.41
45:WA:149:LEU:O	45:WA:153:LEU:HD23	2.20	0.41
46:WB:204:ASN:HA	46:WB:207:LEU:HG	2.02	0.41
46:WB:225:LEU:O	46:WB:228:LEU:HG	2.20	0.41
45:WC:54:SER:HB3	45:WC:64:ARG:NH1	2.36	0.41
45:WC:88:HIS:HB3	45:WC:91:GLN:HG2	2.01	0.41
45:WE:175:PRO:HB2	45:WE:176:GLN:OE1	2.21	0.41
45:WG:332:ILE:HD11	45:WG:351:PHE:CD2	2.56	0.41
46:WH:41:ASP:OD1	46:WH:42:LEU:N	2.54	0.41
45:WI:177:VAL:HG13	46:WJ:327:ASP:CG	2.41	0.41
46:WL:22:GLU:HG2	46:WL:81:PHE:HB2	2.03	0.41
46:WL:318:ARG:HH11	46:WL:358:PRO:HG3	1.86	0.41
45:WM:67:PHE:HE1	45:WM:87:PHE:CE1	2.39	0.41
46:WN:68:LEU:HD11	46:WN:108:GLU:HG2	2.03	0.41
46:WN:285:THR:OG1	46:WN:288:GLU:OE1	2.27	0.41
45:CE:115:VAL:O	45:CE:119:LEU:HD23	2.21	0.41
1:0A:53:HIS:HB3	45:MA:84:ARG:HH22	1.86	0.41
4:0D:35:LYS:HZ3	45:DC:84:ARG:HE	1.69	0.41
6:0F:75:ARG:HG2	46:ED:359:LYS:HZ1	1.86	0.41
12:0T:65:ARG:NH2	46:MB:111:GLU:N	2.67	0.41
15:0X:23:GLY:HA3	46:MD:361:LEU:HD13	2.02	0.41
4:1D:54:PHE:HA	45:EG:221:ARG:HH12	1.84	0.41
7:1G:142:LYS:CE	45:JA:84:ARG:HD2	2.48	0.41
19:1J:175:HIS:HE1	46:HH:52:ASN:HA	1.85	0.41
21:1L:658:ARG:NH1	45:BE:80:THR:HB	2.36	0.41
9:1N:6:VAL:HG11	46:IJ:128:ASP:HA	2.03	0.41
23:1O:189:ILE:HA	46:UD:276:ARG:HH22	1.83	0.41
23:1O:261:LEU:HD13	45:TA:57:GLY:O	2.20	0.41
24:1P:168:ARG:CZ	45:TI:369:ALA:HB1	2.51	0.41
24:1P:189:HIS:HE1	46:TH:284:LEU:HD23	1.85	0.41
24:1P:391:ARG:HD2	45:TA:370:LYS:HD3	2.02	0.41
13:1U:430:ARG:NH2	45:WE:365:GLY:H	2.19	0.41
1:2A:51:LYS:NZ	46:MJ:45:GLU:OE2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:2F:83:ARG:NH1	45:GE:97:GLU:OE1	2.54	0.41
31:2I:101:GLU:HA	46:FF:114:ASP:OD1	2.20	0.41
21:2L:545:GLU:HG2	45:BM:279:GLU:OE1	2.21	0.41
23:2O:156:ARG:HH22	45:VK:368:LEU:C	2.24	0.41
12:2T:147:PHE:CE2	46:MJ:106:TYR:HB3	2.55	0.41
1:3A:73:ALA:O	45:AM:219:ILE:HD12	2.20	0.41
13:3U:123:GLN:HG3	46:WN:276:ARG:NH1	2.36	0.41
15:3X:52:GLN:HG3	45:MM:278:ALA:HB1	2.02	0.41
34:4R:559:ASN:HD21	34:4R:561:ARG:HH22	1.69	0.41
36:5C:29:GLN:O	36:5C:30:LYS:HD3	2.20	0.41
36:5C:102:TYR:CE1	45:KI:394:LYS:HG3	2.56	0.41
37:5E:93:PHE:O	37:5E:97:ARG:HG3	2.20	0.41
37:5E:199:LYS:HB2	37:5E:204:LYS:HD3	2.03	0.41
10:5Q:65:PRO:HA	10:5Q:153:ARG:HH22	1.85	0.41
34:5R:520:PRO:C	34:5R:522:VAL:H	2.24	0.41
35:5S:78:VAL:HG22	35:5S:80:PHE:HD1	1.85	0.41
35:5S:213:ASN:O	35:5S:217:LEU:HD13	2.21	0.41
35:5S:218:ILE:O	35:5S:222:LEU:HD23	2.20	0.41
39:6F:137:MET:O	39:6F:137:MET:HG2	2.21	0.41
40:6G:287:VAL:O	40:6G:290:GLN:HG2	2.20	0.41
10:6Q:15:TYR:CZ	10:6Q:17:ILE:HB	2.56	0.41
10:6Q:38:THR:HA	10:6Q:45:SER:HA	2.02	0.41
10:6Q:95:ASP:OD2	10:6Q:101:ARG:HG3	2.21	0.41
34:6R:129:VAL:HG12	34:6R:144:PHE:HB3	2.02	0.41
34:6R:268:GLU:OE1	46:DN:280:GLN:HG3	2.21	0.41
34:6R:567:ASN:HA	34:6R:570:VAL:HG22	2.02	0.41
34:7R:83:PRO:HG2	34:7R:86:LEU:HD12	2.01	0.41
34:7R:355:TYR:O	34:7R:358:GLU:HG3	2.21	0.41
34:7R:565:ASP:OD2	34:7R:567:ASN:ND2	2.53	0.41
42:8L:61:UNK:HA	46:SL:276:ARG:NH2	2.35	0.41
44:8R:230:TYR:CD2	45:PE:282:TYR:HB2	2.56	0.41
46:AB:21:TRP:CZ2	46:AB:63:ALA:HB2	2.56	0.41
45:AC:28:HIS:HE1	45:AC:48:ALA:C	2.25	0.41
45:AC:55:GLU:OE1	45:AC:61:HIS:NE2	2.54	0.41
46:AD:205:GLU:HG3	46:AD:206:ALA:N	2.36	0.41
45:AE:244:PHE:CZ	45:AE:358:GLN:HG2	2.56	0.41
46:AF:65:LEU:HB2	46:AF:90:PHE:CD1	2.55	0.41
46:AF:116:VAL:O	46:AF:120:VAL:HG23	2.21	0.41
45:AG:286:LEU:HA	45:AG:290:GLU:OE2	2.20	0.41
45:AK:304:LYS:HA	45:AK:304:LYS:HD2	1.79	0.41
46:AN:293:MET:SD	46:AN:365:VAL:HG11	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BA:419:SER:O	45:BA:422:ARG:HG3	2.20	0.41
45:BC:20:CYS:HA	45:BC:232:ALA:HB1	2.03	0.41
45:BC:90:GLU:HG3	45:CC:280:LYS:HZ1	1.85	0.41
46:BD:218:THR:HG22	46:BD:219:THR:HG23	2.02	0.41
46:BF:221:THR:HG22	46:BF:222:TYR:N	2.36	0.41
45:BG:10:GLY:O	45:BG:14:ILE:HG12	2.21	0.41
45:BG:259:LEU:HD11	45:BG:316:SER:HB2	2.01	0.41
45:BG:387:VAL:HA	45:BG:390:ARG:HG2	2.01	0.41
45:BI:74:VAL:O	45:BI:78:VAL:HG23	2.20	0.41
45:BK:8:HIS:CE1	45:BK:17:GLY:HA3	2.55	0.41
45:BK:224:TYR:HA	45:BK:227:LEU:HD12	2.03	0.41
45:BK:356:ASN:OD1	45:BK:357:TYR:N	2.53	0.41
45:BK:407:TRP:HH2	46:BL:254:ALA:HB1	1.86	0.41
46:BL:247:ASN:C	46:BL:247:ASN:ND2	2.74	0.41
45:BM:100:ALA:HA	46:BN:252:LYS:HG2	2.03	0.41
45:BM:395:PHE:HZ	45:BM:418:PHE:HB3	1.84	0.41
46:BN:3:GLU:HG3	46:BN:62:ARG:NH1	2.36	0.41
46:BN:295:ASP:OD1	46:BN:296:ALA:N	2.54	0.41
46:BN:396:HIS:CD2	46:BN:397:TRP:CD1	3.08	0.41
45:CA:2:ARG:O	45:CA:51:THR:HA	2.21	0.41
45:CA:194:LEU:HB2	45:CA:198:THR:OG1	2.20	0.41
46:CB:1:MET:O	46:CB:2:ARG:HG2	2.21	0.41
46:CB:209:ASP:C	46:CB:213:ARG:HH11	2.24	0.41
45:CC:89:PRO:HD2	45:DC:280:LYS:HZ3	1.85	0.41
45:CC:196:GLU:HG2	45:CC:197:HIS:HD2	1.86	0.41
45:CC:207:GLU:OE1	45:CC:304:LYS:NZ	2.44	0.41
46:CF:88:ASP:OD1	46:CF:89:ASN:N	2.54	0.41
46:CF:324:LYS:H	45:CG:221:ARG:NH1	2.19	0.41
45:CG:71:GLU:HA	45:CG:72:PRO:HD3	1.89	0.41
45:CG:425:LEU:HD23	45:CG:425:LEU:HA	1.81	0.41
46:CH:12:CYS:SG	46:CH:169:VAL:HG21	2.61	0.41
46:CH:86:ARG:CZ	46:DH:281:TYR:CG	3.04	0.41
46:CH:406:MET:O	46:CH:409:THR:N	2.54	0.41
45:CI:149:LEU:O	45:CI:153:LEU:HD23	2.21	0.41
45:CI:426:ALA:HA	45:CI:429:GLU:OE1	2.20	0.41
46:CJ:21:TRP:CZ3	46:CJ:61:PRO:HB3	2.56	0.41
46:CJ:150:LEU:O	46:CJ:154:LYS:HG2	2.20	0.41
46:CJ:240:LEU:HD23	46:CJ:240:LEU:HA	1.89	0.41
46:CJ:418:LEU:O	46:CJ:422:TYR:HB2	2.21	0.41
45:CK:88:HIS:O	45:CK:91:GLN:HG2	2.21	0.41
46:CL:163:ILE:HD11	46:CL:251:ARG:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CL:164:MET:O	46:CL:197:ASP:HB3	2.21	0.41
45:CM:9:VAL:HG13	45:CM:139:ASN:HB3	2.03	0.41
45:CM:107:HIS:ND1	45:CM:107:HIS:O	2.53	0.41
45:CM:115:VAL:O	45:CM:119:LEU:HD23	2.21	0.41
45:DA:269:LEU:HD23	45:DA:379:SER:O	2.20	0.41
45:DA:271:SER:OG	45:DA:301:MET:HG3	2.21	0.41
46:DB:276:ARG:HD2	46:DB:276:ARG:HA	1.81	0.41
46:DB:322:SER:HB2	45:DC:222:PRO:O	2.21	0.41
46:DD:111:GLU:OE2	46:DD:111:GLU:N	2.53	0.41
46:DD:268:ILE:HG13	46:DD:300:MET:HG3	2.03	0.41
46:DD:418:LEU:HD12	46:DD:421:GLU:OE2	2.20	0.41
45:DE:68:LEU:HD23	45:DE:149:LEU:HD21	2.03	0.41
45:DE:141:VAL:HG22	45:DE:187:SER:HA	2.02	0.41
45:DE:259:LEU:HD21	45:DE:316:SER:HB2	2.01	0.41
45:DE:265:ILE:HG12	45:DE:432:TYR:CE1	2.56	0.41
45:DG:5:ILE:HB	45:DG:135:PHE:HD1	1.85	0.41
45:DG:51:THR:HG23	45:DG:52:PHE:CD2	2.56	0.41
45:DG:112:LYS:O	45:DG:115:VAL:HG12	2.21	0.41
45:DG:188:ILE:HD12	45:DG:425:LEU:CD1	2.50	0.41
46:DH:175:VAL:HG23	46:DH:175:VAL:O	2.21	0.41
46:DH:258:ILE:HG13	45:DI:407:TRP:HE1	1.86	0.41
45:DI:26:LEU:HD11	45:DI:364:PRO:HD2	2.03	0.41
45:DI:68:LEU:HD21	45:DI:118:CYS:HB2	2.02	0.41
45:DI:352:LYS:HD2	46:DJ:177:ASP:O	2.20	0.41
45:DK:22:GLU:OE2	45:DK:229:ARG:NH1	2.53	0.41
46:DL:139:LEU:HD11	46:DL:168:SER:HB3	2.02	0.41
46:DL:293:MET:SD	46:DL:365:VAL:HG11	2.61	0.41
46:DL:409:THR:O	46:DL:412:GLU:HG3	2.21	0.41
45:DM:136:LEU:HD13	45:DM:167:LEU:HB2	2.03	0.41
45:DM:229:ARG:HH12	45:DM:363:VAL:HG21	1.85	0.41
46:DN:86:ARG:HE	46:EN:281:TYR:HD2	1.69	0.41
46:DN:91:VAL:HG21	46:DN:116:VAL:HB	2.02	0.41
45:EC:135:PHE:HE2	45:EC:164:LYS:HB3	1.86	0.41
46:ED:107:THR:OG1	46:ED:108:GLU:OE2	2.39	0.41
46:EF:8:GLN:HB3	46:EF:65:LEU:HD23	2.03	0.41
45:EG:90:GLU:HG2	45:EG:121:ARG:NH2	2.36	0.41
45:EG:115:VAL:HG22	45:EG:119:LEU:HD23	2.03	0.41
45:EG:430:LYS:O	45:EG:433:GLU:HG3	2.21	0.41
46:EJ:252:LYS:HA	46:EJ:255:VAL:HG12	2.03	0.41
45:EK:90:GLU:OE1	45:EK:90:GLU:N	2.54	0.41
45:EK:109:THR:HB	45:EK:110:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EK:116:ASP:O	45:EK:119:LEU:HG	2.21	0.41
45:EK:124:LYS:HE2	45:EK:124:LYS:HB2	1.90	0.41
46:EL:226:ASN:HA	46:EL:229:VAL:HG22	2.03	0.41
46:EL:318:ARG:HH22	46:EL:358:PRO:CB	2.34	0.41
46:EL:324:LYS:O	46:EL:328:GLU:OE1	2.39	0.41
45:EM:9:VAL:HG21	45:EM:149:LEU:HB2	2.03	0.41
45:EM:20:CYS:HB3	45:EM:235:ILE:HD11	2.03	0.41
45:EM:76:ASP:HA	45:EM:79:ARG:HG2	2.03	0.41
45:EM:252:ILE:HA	45:EM:255:PHE:CE2	2.56	0.41
46:FB:52:ASN:CG	46:FB:62:ARG:HE	2.24	0.41
46:FB:87:PRO:HA	46:FB:90:PHE:CD2	2.55	0.41
45:FC:8:HIS:HB2	45:FC:67:PHE:CD1	2.56	0.41
45:FC:20:CYS:HA	45:FC:232:ALA:HB1	2.03	0.41
45:FE:71:GLU:OE2	45:FE:73:THR:OG1	2.38	0.41
45:FE:328:VAL:HG11	45:FE:353:VAL:HG21	2.02	0.41
45:FE:387:VAL:HA	45:FE:390:ARG:HG2	2.03	0.41
46:FF:3:GLU:OE2	46:FF:128:ASP:N	2.53	0.41
46:FF:207:LEU:HD23	46:FF:207:LEU:HA	1.77	0.41
45:FG:88:HIS:NE2	45:GG:284:GLU:OE2	2.54	0.41
45:FG:118:CYS:O	45:FG:122:ILE:HG13	2.21	0.41
45:FG:394:LYS:HZ2	46:FH:346:PRO:HG2	1.85	0.41
46:FH:21:TRP:HA	46:FH:24:ILE:HG22	2.03	0.41
46:FH:138:SER:HA	46:FH:169:VAL:HB	2.03	0.41
45:FI:127:ASP:OD1	45:FI:128:ASN:N	2.53	0.41
46:FJ:31:ASP:OD2	46:FJ:35:THR:OG1	2.39	0.41
46:FJ:116:VAL:HA	46:FJ:119:VAL:HG12	2.03	0.41
46:FJ:290:THR:HA	46:FJ:293:MET:HE2	2.02	0.41
45:FK:425:LEU:HD23	45:FK:425:LEU:HA	1.84	0.41
46:FL:294:PHE:HE1	46:FL:333:VAL:HG21	1.86	0.41
45:FM:288:VAL:HA	45:FM:291:ILE:HG12	2.01	0.41
46:FN:420:SER:O	46:FN:423:GLN:HG3	2.21	0.41
45:GA:67:PHE:HB2	45:GA:92:LEU:HD23	2.03	0.41
45:GA:100:ALA:HA	46:GB:252:LYS:HD3	2.02	0.41
46:GB:344:TRP:CE3	46:GB:345:ILE:HG23	2.56	0.41
45:GC:209:ILE:HG12	45:GC:302:MET:SD	2.61	0.41
45:GC:268:MET:HG3	45:GC:380:ASN:HB2	2.02	0.41
45:GC:271:SER:HB2	45:GC:301:MET:HA	2.03	0.41
46:GF:240:LEU:HD12	46:GF:240:LEU:O	2.21	0.41
46:GF:310:TYR:CD1	46:GF:371:SER:HB2	2.56	0.41
45:GG:338:LYS:HA	45:GG:338:LYS:HD2	1.83	0.41
46:GH:3:GLU:H	46:GH:3:GLU:CD	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GH:316:LEU:HG	46:GH:352:SER:HB2	2.03	0.41
45:GI:2:ARG:HD3	45:GI:2:ARG:H	1.86	0.41
45:GI:88:HIS:HB3	45:GI:91:GLN:HG2	2.03	0.41
45:GI:326:LYS:HZ3	46:GL:208:TYR:CB	2.34	0.41
45:GI:430:LYS:O	45:GI:433:GLU:HG2	2.20	0.41
45:GK:88:HIS:NE2	45:HK:284:GLU:OE2	2.52	0.41
45:GK:326:LYS:NZ	46:GN:220:PRO:O	2.52	0.41
46:GL:153:SER:O	46:GL:157:GLU:HG2	2.21	0.41
46:GL:403:MET:HG3	46:GL:407:GLU:OE2	2.21	0.41
46:GN:58:ARG:HD3	46:HN:280:GLN:OE1	2.21	0.41
45:HA:203:MET:HE2	45:HA:268:MET:C	2.40	0.41
46:HB:138:SER:HA	46:HB:169:VAL:HB	2.03	0.41
46:HB:330:MET:HB3	46:HB:349:ILE:HD12	2.03	0.41
45:HC:141:VAL:HG11	45:HC:172:TYR:HD1	1.85	0.41
45:HC:326:LYS:NZ	46:HF:208:TYR:HB3	2.36	0.41
46:HD:54:ALA:HB3	46:HD:58:ARG:HG2	2.03	0.41
46:HD:178:THR:HB	46:HD:181:GLU:CD	2.41	0.41
45:HE:140:SER:OG	47:HE:501:GTP:O2B	2.39	0.41
45:HE:185:TYR:HE1	45:HE:398:MET:HG3	1.86	0.41
45:HG:217:LEU:HD23	45:HG:217:LEU:HA	1.94	0.41
45:HG:251:ASP:HB2	45:HG:254:GLU:HG2	2.03	0.41
45:HI:89:PRO:CD	45:II:283:HIS:HD1	2.34	0.41
45:HI:222:PRO:HG2	46:HJ:324:LYS:HD3	2.03	0.41
45:HI:331:SER:O	45:HI:335:ILE:HG12	2.21	0.41
45:HI:342:GLN:OE1	45:HI:342:GLN:N	2.54	0.41
46:HJ:31:ASP:OD2	46:HJ:35:THR:HB	2.20	0.41
46:HJ:51:TYR:HE2	46:HJ:61:PRO:HG3	1.86	0.41
46:HJ:187:LEU:HD11	46:HJ:408:PHE:CE2	2.56	0.41
46:HJ:304:ASP:OD2	46:HJ:306:ARG:NH2	2.53	0.41
45:HK:9:VAL:HG13	45:HK:139:ASN:HB3	2.03	0.41
45:HK:384:ILE:O	45:HK:387:VAL:HG22	2.21	0.41
46:HL:116:VAL:HA	46:HL:119:VAL:HG12	2.03	0.41
46:HL:173:PRO:HD3	46:HL:380:ARG:HH12	1.86	0.41
45:HM:206:ASN:OD1	47:HM:501:GTP:N2	2.43	0.41
46:HN:97:ALA:HA	46:HN:103:LYS:HG2	2.03	0.41
46:HN:407:GLU:O	46:HN:410:GLU:HG3	2.20	0.41
45:IA:169:PHE:HB3	45:IA:204:LEU:HD11	2.02	0.41
45:IA:319:TYR:CD2	45:IA:323:VAL:HG11	2.56	0.41
46:IB:3:GLU:HA	46:IB:49:VAL:HG13	2.02	0.41
46:IB:255:VAL:HG13	46:IB:256:ASN:HD22	1.86	0.41
45:IC:22:GLU:OE2	45:IC:83:TYR:HE2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IC:120:ASP:O	45:IC:124:LYS:HG2	2.21	0.41
45:IC:398:MET:HE2	46:ID:345:ILE:HA	2.03	0.41
46:ID:3:GLU:O	46:ID:130:LEU:HD12	2.21	0.41
46:ID:293:MET:HG3	46:ID:367:PHE:HB2	2.03	0.41
45:IE:141:VAL:HG11	45:IE:172:TYR:HA	2.02	0.41
46:IF:396:HIS:HA	46:IF:399:THR:OG1	2.21	0.41
45:IG:1:MET:HE2	45:IG:130:THR:HG23	2.03	0.41
45:IG:287:SER:O	45:IG:291:ILE:HG23	2.21	0.41
46:IH:6:HIS:CD2	46:IH:134:GLN:NE2	2.86	0.41
46:IH:87:PRO:HG2	45:JE:280:LYS:HG2	2.02	0.41
46:IH:318:ARG:NH1	46:IH:358:PRO:HG3	2.36	0.41
45:II:291:ILE:HG13	45:II:292:THR:N	2.36	0.41
45:IK:358:GLN:OE1	45:IK:359:PRO:HD2	2.21	0.41
46:IL:260:PHE:HB2	46:IL:263:LEU:HD13	2.03	0.41
45:IM:224:TYR:CE2	46:IN:323:THR:HG21	2.56	0.41
45:IM:311:LYS:N	45:IM:382:THR:OG1	2.52	0.41
45:IM:409:VAL:HG21	45:IM:415:GLU:OE1	2.21	0.41
46:IN:273:LEU:N	46:IN:292:GLN:HE22	2.15	0.41
46:IN:377:MET:SD	46:IN:380:ARG:HD3	2.60	0.41
45:JA:33:ASP:OD1	45:JA:34:GLY:N	2.54	0.41
46:JB:180:VAL:HG12	46:JB:180:VAL:O	2.21	0.41
45:JC:174:SER:HB2	45:JC:177:VAL:O	2.20	0.41
46:JD:178:THR:HG22	46:JD:180:VAL:H	1.86	0.41
45:JE:141:VAL:CG1	45:JE:172:TYR:HA	2.51	0.41
45:JE:188:ILE:HG22	45:JE:421:ALA:HB1	2.01	0.41
45:JE:268:MET:HB2	45:JE:379:SER:O	2.21	0.41
46:JF:19:LYS:HZ3	46:JF:227:HIS:HB2	1.85	0.41
46:JF:170:VAL:HG21	46:JF:377:MET:CE	2.51	0.41
45:JG:265:ILE:HG23	45:JG:432:TYR:CZ	2.56	0.41
46:JH:396:HIS:HA	46:JH:399:THR:OG1	2.21	0.41
45:JK:223:THR:HG23	45:JK:225:THR:H	1.85	0.41
45:JK:244:PHE:HB2	45:JK:356:ASN:HD21	1.86	0.41
45:JK:326:LYS:CE	46:JN:220:PRO:HD2	2.45	0.41
45:JK:392:ASP:OD1	45:JK:422:ARG:NH1	2.53	0.41
46:JN:9:GLY:HA2	46:JN:66:MET:O	2.21	0.41
46:JN:69:GLU:OE2	46:JN:71:GLY:N	2.51	0.41
46:JN:86:ARG:NH1	46:KN:281:TYR:O	2.53	0.41
46:JN:324:LYS:O	46:JN:327:ASP:N	2.53	0.41
45:KA:2:ARG:HD2	45:KA:242:LEU:O	2.21	0.41
45:KA:404:PHE:CD1	46:KB:259:PRO:HA	2.55	0.41
46:KB:5:VAL:HG12	46:KB:62:ARG:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KB:198:GLU:OE2	46:KB:254:ALA:HB2	2.21	0.41
45:KC:51:THR:HG21	45:KC:243:ARG:HD3	2.03	0.41
45:KC:68:LEU:HD22	45:KC:153:LEU:HD11	2.03	0.41
45:KC:178:SER:OG	45:KC:183:GLU:OE1	2.38	0.41
45:KC:195:LEU:HD13	45:KC:428:LEU:HD11	2.03	0.41
45:KC:210:TYR:HB3	46:KD:324:LYS:NZ	2.36	0.41
46:KD:8:GLN:HE21	46:KD:65:LEU:HD11	1.85	0.41
46:KD:108:GLU:O	46:KD:111:GLU:HG2	2.21	0.41
46:KD:214:THR:OG1	46:KD:215:LEU:N	2.53	0.41
46:KD:372:THR:HG21	46:KD:426:GLN:HB2	2.02	0.41
46:KD:376:GLU:OE1	46:KD:380:ARG:NH2	2.53	0.41
45:KE:31:GLN:NE2	45:KE:37:PRO:HA	2.36	0.41
45:KE:291:ILE:HG13	45:KE:292:THR:N	2.35	0.41
45:KE:430:LYS:O	45:KE:433:GLU:HG3	2.21	0.41
46:KF:146:GLY:O	46:KF:149:THR:HG22	2.20	0.41
46:KF:292:GLN:HG2	46:KF:298:ASN:HD22	1.85	0.41
46:KH:207:LEU:HD13	46:KH:225:LEU:HB3	2.02	0.41
46:KH:311:LEU:HD23	46:KH:311:LEU:HA	1.90	0.41
46:KJ:260:PHE:HB2	46:KJ:263:LEU:HD13	2.01	0.41
45:KK:303:ALA:O	45:KK:305:CYS:N	2.52	0.41
45:KK:371:VAL:HG22	45:KK:373:ARG:H	1.85	0.41
46:KL:100:ASN:HB3	46:KL:103:LYS:HB2	2.02	0.41
46:KL:113:ILE:HD13	46:KL:150:LEU:HD22	2.01	0.41
46:KL:117:LEU:HA	46:KL:120:VAL:HG12	2.02	0.41
45:KM:72:PRO:HA	45:KM:75:ILE:HG22	2.02	0.41
45:LA:296:PHE:HE1	45:LA:335:ILE:HG13	1.86	0.41
46:LB:87:PRO:HA	46:LB:90:PHE:HD2	1.85	0.41
46:LB:122:LYS:HE2	46:MB:291:GLN:OE1	2.20	0.41
45:LC:70:LEU:HB3	45:LC:97:GLU:O	2.20	0.41
45:LC:390:ARG:HG3	45:LC:391:LEU:N	2.35	0.41
45:LE:244:PHE:CE2	45:LE:358:GLN:HG2	2.55	0.41
46:LH:334:GLN:HE22	46:LH:348:ASN:H	1.67	0.41
45:LI:71:GLU:CD	45:LI:73:THR:H	2.24	0.41
45:LI:244:PHE:CE2	45:LI:358:GLN:HG2	2.56	0.41
45:LI:345:ASP:N	45:LI:345:ASP:OD1	2.54	0.41
46:LJ:287:PRO:HA	46:LJ:290:THR:HG22	2.03	0.41
46:LJ:313:ALA:HB1	46:LJ:367:PHE:CE2	2.56	0.41
46:LJ:417:ASP:O	46:LJ:421:GLU:HG3	2.21	0.41
46:LL:2:ARG:HG3	46:LL:240:LEU:HD11	2.02	0.41
46:LL:117:LEU:HD23	46:LL:117:LEU:HA	1.95	0.41
46:LL:374:ILE:HG22	46:LL:422:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MA:289:ALA:O	45:MA:292:THR:HG22	2.21	0.41
46:MB:16:ILE:HD13	46:MB:226:ASN:OD1	2.21	0.41
46:MB:420:SER:C	46:MB:424:GLN:HE22	2.24	0.41
45:MC:118:CYS:O	45:MC:122:ILE:HG12	2.21	0.41
45:MC:319:TYR:HB3	45:MC:323:VAL:HG21	2.02	0.41
45:ME:90:GLU:OE1	45:ME:121:ARG:NH2	2.54	0.41
46:MF:116:VAL:HA	46:MF:119:VAL:HG12	2.03	0.41
45:MG:265:ILE:HG12	45:MG:432:TYR:CE2	2.49	0.41
46:MH:2:ARG:HB2	46:MH:131:GLN:HB2	2.03	0.41
46:MH:21:TRP:CZ2	46:MH:63:ALA:HB2	2.56	0.41
46:MH:332:ASN:O	46:MH:336:LYS:HG2	2.21	0.41
45:MI:276:ILE:HG12	45:MI:281:ALA:HA	2.03	0.41
46:MJ:10:GLY:O	46:MJ:14:ASN:ND2	2.54	0.41
46:MJ:21:TRP:CD1	46:MJ:85:PHE:HE1	2.39	0.41
46:MJ:68:LEU:HB3	46:MJ:96:GLY:HA2	2.02	0.41
46:MJ:294:PHE:CD2	46:MJ:333:VAL:HG21	2.56	0.41
45:MK:84:ARG:H	45:MK:84:ARG:HG2	1.68	0.41
45:MK:155:GLU:OE2	45:MK:197:HIS:NE2	2.54	0.41
45:MK:256:GLN:CD	45:MK:256:GLN:H	2.23	0.41
45:MK:265:ILE:HG22	45:MK:380:ASN:HD21	1.86	0.41
46:ML:102:ALA:HB2	46:ML:398:TYR:CD1	2.54	0.41
46:ML:117:LEU:HA	46:ML:120:VAL:HG12	2.02	0.41
45:MM:387:VAL:HA	45:MM:390:ARG:HG2	2.03	0.41
45:NA:9:VAL:HG22	45:NA:146:GLY:HA2	2.03	0.41
46:NB:113:ILE:O	46:NB:117:LEU:HD23	2.21	0.41
45:NC:169:PHE:HA	45:NC:202:VAL:HG22	2.03	0.41
45:NC:265:ILE:HG22	45:NC:380:ASN:HD21	1.86	0.41
45:NC:284:GLU:HB3	45:NC:286:LEU:HD22	2.03	0.41
45:NE:54:SER:HB3	45:NE:64:ARG:NH1	2.35	0.41
45:NE:179:THR:O	46:NF:350:LYS:HA	2.21	0.41
45:NE:227:LEU:O	45:NE:231:ILE:HG12	2.21	0.41
45:NE:414:GLU:CD	45:NE:416:GLY:H	2.23	0.41
46:NF:23:VAL:HG11	46:NF:230:SER:HB3	2.03	0.41
45:NG:55:GLU:HG3	45:NG:57:GLY:H	1.86	0.41
46:NH:407:GLU:HA	46:NH:410:GLU:HG3	2.03	0.41
45:NI:97:GLU:OE1	45:NI:98:ASP:N	2.53	0.41
46:NJ:256:ASN:HB3	46:NJ:350:LYS:HD2	2.02	0.41
46:NJ:257:LEU:HA	46:NJ:312:THR:HG21	2.03	0.41
46:NJ:302:ALA:HB3	46:NJ:377:MET:HE1	2.02	0.41
46:NJ:324:LYS:O	46:NJ:328:GLU:HG3	2.21	0.41
45:NK:5:ILE:CD1	45:NK:132:LEU:HD11	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NK:310:GLY:HA3	45:NK:383:ALA:HB2	2.02	0.41
45:NM:222:PRO:HD2	46:NN:324:LYS:CE	2.50	0.41
45:NM:306:ASP:OD2	45:NM:308:ARG:HB2	2.20	0.41
46:NN:326:VAL:HG21	46:NN:353:ILE:HD11	2.02	0.41
45:OA:8:HIS:HD2	45:OA:138:PHE:HB2	1.86	0.41
45:OA:319:TYR:HB3	45:OA:323:VAL:HG11	2.03	0.41
46:OB:68:LEU:HB3	46:OB:96:GLY:HA2	2.03	0.41
46:OB:359:LYS:HD2	46:OB:359:LYS:HA	1.73	0.41
46:OB:391:ARG:HD2	46:OB:391:ARG:HA	1.80	0.41
45:OC:56:THR:HG23	45:OC:58:ALA:H	1.86	0.41
45:OC:75:ILE:HD12	45:OC:75:ILE:H	1.86	0.41
46:OD:175:VAL:O	46:OD:175:VAL:HG23	2.21	0.41
45:OE:156:ARG:HD3	45:OE:156:ARG:HA	1.94	0.41
46:OF:46:ARG:HD3	46:OF:46:ARG:HA	1.81	0.41
46:OF:68:LEU:HB3	46:OF:96:GLY:HA2	2.03	0.41
46:OF:101:TRP:NE1	46:OF:146:GLY:HA2	2.36	0.41
45:OG:49:PHE:O	45:OG:53:PHE:N	2.51	0.41
46:OH:97:ALA:HB2	46:OH:143:THR:HB	2.02	0.41
46:OH:101:TRP:HB3	46:OH:398:TYR:HE2	1.85	0.41
46:OJ:319:GLY:HA2	46:OJ:357:PRO:HD3	2.02	0.41
46:OJ:392:LYS:HA	46:OJ:395:LEU:HD12	2.02	0.41
45:OK:276:ILE:HG22	45:OK:277:SER:O	2.20	0.41
45:OM:139:ASN:O	45:OM:170:THR:HA	2.21	0.41
46:ON:99:ASN:HA	46:ON:142:GLY:HA3	2.02	0.41
46:ON:391:ARG:HA	46:ON:391:ARG:HD2	1.82	0.41
45:PA:11:GLN:HA	45:PA:14:ILE:HG22	2.03	0.41
45:PA:149:LEU:O	45:PA:153:LEU:HD23	2.20	0.41
45:PA:259:LEU:HB3	45:PA:268:MET:HE2	2.02	0.41
46:PD:203:ASP:O	46:PD:207:LEU:HG	2.21	0.41
45:PE:149:LEU:O	45:PE:153:LEU:HD23	2.20	0.41
45:PE:387:VAL:O	45:PE:390:ARG:HG2	2.21	0.41
46:PF:32:PRO:HG3	46:PF:81:PHE:CZ	2.55	0.41
46:PF:396:HIS:NE2	46:PF:397:TRP:NE1	2.69	0.41
45:PG:252:ILE:O	45:PG:255:PHE:HB2	2.21	0.41
46:PH:21:TRP:CZ3	46:PH:61:PRO:HB3	2.55	0.41
46:PH:148:GLY:O	46:PH:152:ILE:HG13	2.21	0.41
45:PI:183:GLU:HG2	45:PI:184:PRO:CD	2.51	0.41
45:PI:426:ALA:HB1	45:PI:430:LYS:HZ1	1.86	0.41
46:PJ:44:LEU:HD22	46:PJ:47:ILE:HD13	2.02	0.41
46:PL:131:GLN:O	46:PL:162:ARG:HD2	2.20	0.41
46:PL:318:ARG:HB2	46:PL:364:ALA:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PM:75:ILE:O	45:PM:79:ARG:HG3	2.21	0.41
45:PM:75:ILE:HD12	45:PM:92:LEU:HB3	2.02	0.41
45:PM:221:ARG:HH12	46:PN:325:GLU:CD	2.23	0.41
46:PN:5:VAL:HG12	46:PN:62:ARG:HB3	2.03	0.41
46:PN:113:ILE:HA	46:PN:116:VAL:HG12	2.02	0.41
45:QA:75:ILE:HG23	45:QA:92:LEU:HD23	2.03	0.41
46:QB:164:MET:HB3	46:QB:197:ASP:H	1.86	0.41
46:QD:259:PRO:HA	45:QE:404:PHE:CD1	2.55	0.41
46:QD:350:LYS:NZ	46:QD:351:SER:O	2.50	0.41
45:QE:21:TRP:CZ3	45:QE:63:PRO:HB3	2.56	0.41
45:QE:239:THR:HG23	45:QE:243:ARG:HH21	1.85	0.41
46:QF:65:LEU:O	46:QF:91:VAL:HG12	2.21	0.41
46:QF:395:LEU:O	46:QF:399:THR:HG23	2.21	0.41
45:QG:70:LEU:HB3	45:QG:97:GLU:O	2.21	0.41
45:QG:271:SER:OG	45:QG:301:MET:HA	2.21	0.41
45:QG:395:PHE:HZ	45:QG:418:PHE:HB3	1.84	0.41
46:QH:226:ASN:HD21	49:QH:501:GDP:HN1	1.69	0.41
46:QH:418:LEU:HD12	46:QH:421:GLU:OE2	2.21	0.41
45:QI:31:GLN:OE1	45:QI:37:PRO:HD3	2.21	0.41
45:QI:147:SER:HB2	45:QI:190:SER:HB3	2.03	0.41
45:QI:251:ASP:H	45:QI:254:GLU:CG	2.34	0.41
46:QJ:258:ILE:HD11	45:QK:407:TRP:CZ2	2.55	0.41
46:QJ:318:ARG:HB3	46:QJ:357:PRO:HA	2.03	0.41
46:QJ:319:GLY:HA2	46:QJ:357:PRO:HD3	2.03	0.41
45:QK:60:LYS:HG2	45:QK:61:HIS:N	2.36	0.41
45:QK:368:LEU:HD23	45:QK:368:LEU:HA	1.92	0.41
46:QL:175:VAL:HG22	46:QL:205:GLU:HB3	2.03	0.41
45:QM:75:ILE:HG23	45:QM:92:LEU:HG	2.02	0.41
45:QM:79:ARG:HA	45:QM:87:PHE:CZ	2.52	0.41
45:QM:311:LYS:HD2	45:QM:342:GLN:HG3	2.03	0.41
46:QN:74:ASP:OD1	46:QN:77:ARG:NH2	2.54	0.41
45:RA:242:LEU:HD11	45:RA:252:ILE:HG13	2.01	0.41
46:RB:4:ILE:HG13	46:RB:132:GLY:O	2.21	0.41
46:RB:284:LEU:HD21	46:RB:362:LYS:HD2	2.03	0.41
46:RB:330:MET:HB3	46:RB:330:MET:HE2	2.00	0.41
45:RC:136:LEU:HD12	45:RC:137:VAL:N	2.36	0.41
45:RC:148:GLY:O	45:RC:152:LEU:HD23	2.21	0.41
45:RC:206:ASN:HA	45:RC:209:ILE:HG12	2.03	0.41
45:RC:239:THR:HG23	45:RC:243:ARG:HH21	1.85	0.41
45:RC:271:SER:OG	45:RC:301:MET:SD	2.79	0.41
45:RC:384:ILE:O	45:RC:387:VAL:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RD:20:PHE:HA	46:RD:230:SER:OG	2.21	0.41
46:RD:65:LEU:HD22	46:RD:90:PHE:CE1	2.56	0.41
46:RD:285:THR:OG1	46:RD:288:GLU:HG2	2.20	0.41
46:RD:313:ALA:HB1	46:RD:367:PHE:CE1	2.55	0.41
45:RE:20:CYS:HA	45:RE:232:ALA:HB1	2.02	0.41
45:RE:260:VAL:HG23	46:RF:397:TRP:CZ2	2.49	0.41
45:RE:272:TYR:O	45:RE:300:ASN:ND2	2.52	0.41
45:RE:422:ARG:HH11	45:RE:422:ARG:HA	1.86	0.41
46:RF:68:LEU:HD22	46:RF:97:ALA:HB2	2.03	0.41
46:RF:174:LYS:HE2	46:RF:174:LYS:HB2	1.85	0.41
46:RF:211:CYS:SG	46:RF:220:PRO:HB3	2.61	0.41
46:RF:226:ASN:HA	46:RF:229:VAL:HG22	2.03	0.41
46:RF:228:LEU:HD11	46:RF:273:LEU:HD11	2.03	0.41
46:RF:309:ARG:NH2	46:RF:426:GLN:HG2	2.36	0.41
45:RG:296:PHE:HE2	45:RG:335:ILE:HD13	1.86	0.41
45:RG:370:LYS:HA	45:RG:370:LYS:HD2	1.83	0.41
45:RI:287:SER:O	45:RI:291:ILE:HG23	2.20	0.41
46:RJ:324:LYS:O	46:RJ:328:GLU:HB2	2.21	0.41
45:RK:5:ILE:O	45:RK:135:PHE:HA	2.20	0.41
45:RK:64:ARG:HA	45:RK:125:LEU:HD11	2.03	0.41
46:RL:3:GLU:HA	46:RL:49:VAL:HG13	2.03	0.41
46:RL:101:TRP:HD1	46:RL:145:SER:OG	2.04	0.41
46:RL:222:TYR:CD1	49:RL:501:GDP:C6	3.09	0.41
46:RL:345:ILE:O	46:RL:345:ILE:HG13	2.20	0.41
45:RM:71:GLU:HA	45:RM:72:PRO:HD3	1.93	0.41
46:RN:105:HIS:CE1	46:RN:150:LEU:HD12	2.55	0.41
45:SA:71:GLU:HA	45:SA:72:PRO:HD3	1.91	0.41
45:SC:123:ARG:HA	45:SC:123:ARG:HD3	1.87	0.41
45:SC:265:ILE:O	45:SC:265:ILE:HG23	2.20	0.41
46:SD:1:MET:SD	46:SD:2:ARG:N	2.94	0.41
46:SD:83:GLN:O	46:TD:281:TYR:OH	2.22	0.41
46:SD:116:VAL:HA	46:SD:119:VAL:HG12	2.03	0.41
46:SD:345:ILE:HG23	46:SD:345:ILE:O	2.21	0.41
45:SE:91:GLN:HG3	45:SE:121:ARG:HH21	1.84	0.41
46:SF:2:ARG:NH2	45:SG:72:PRO:HD2	2.36	0.41
46:SF:16:ILE:HD12	46:SF:229:VAL:HG11	2.03	0.41
46:SF:321:MET:N	46:SF:321:MET:SD	2.93	0.41
45:SG:4:VAL:HG12	45:SG:133:GLN:HB2	2.03	0.41
45:SG:174:SER:OG	45:SG:207:GLU:HB2	2.21	0.41
45:SG:254:GLU:HG3	45:SG:254:GLU:O	2.21	0.41
45:SG:262:TYR:OH	46:SH:391:ARG:O	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SG:419:SER:O	45:SG:423:GLU:HG2	2.20	0.41
46:SH:67:ASP:OD1	46:SH:68:LEU:N	2.54	0.41
46:SH:135:ILE:HB	46:SH:166:THR:HG22	2.02	0.41
45:SI:171:ILE:HG13	45:SI:204:LEU:HB2	2.03	0.41
46:SJ:11:GLN:NE2	49:SJ:501:GDP:O1A	2.54	0.41
46:SL:130:LEU:HD21	46:SL:133:PHE:CZ	2.56	0.41
45:SM:88:HIS:HB3	45:SM:91:GLN:HG2	2.01	0.41
46:SN:267:MET:HB2	46:SN:299:MET:CE	2.50	0.41
46:SN:276:ARG:HD3	46:SN:276:ARG:HA	1.89	0.41
46:SN:294:PHE:CE1	46:SN:333:VAL:HG11	2.56	0.41
45:TA:141:VAL:HG11	45:TA:172:TYR:HA	2.03	0.41
45:TA:298:PRO:HA	45:TA:301:MET:HE1	2.03	0.41
46:TB:3:GLU:CG	46:TB:49:VAL:HA	2.49	0.41
46:TB:87:PRO:HA	46:TB:90:PHE:CD2	2.54	0.41
46:TB:326:VAL:O	46:TB:330:MET:HG2	2.21	0.41
46:TD:322:SER:H	45:TE:221:ARG:CZ	2.33	0.41
45:TE:87:PHE:O	45:UE:283:HIS:HE1	2.04	0.41
45:TE:402:ARG:NH1	45:TE:405:VAL:HB	2.36	0.41
46:TF:6:HIS:O	46:TF:63:ALA:HA	2.20	0.41
45:TG:10:GLY:O	45:TG:14:ILE:HG12	2.20	0.41
45:TG:21:TRP:CZ2	45:TG:65:ALA:HB2	2.55	0.41
46:TH:109:GLY:O	46:TH:113:ILE:HG23	2.21	0.41
46:TJ:192:LEU:HD21	46:TJ:199:CYS:HB2	2.01	0.41
45:TK:194:LEU:O	45:TK:198:THR:HG22	2.21	0.41
46:TL:102:ALA:O	46:TL:106:TYR:HB2	2.21	0.41
46:TL:230:SER:HA	46:TL:233:MET:HE3	2.02	0.41
46:TN:68:LEU:HD12	46:TN:93:GLY:HA3	2.03	0.41
46:TN:207:LEU:HD13	46:TN:225:LEU:HB3	2.01	0.41
45:UA:208:ALA:O	45:UA:212:ILE:HG12	2.21	0.41
46:UB:121:ARG:O	46:UB:125:GLU:OE1	2.39	0.41
46:UB:129:CYS:SG	45:UC:96:LYS:HE3	2.61	0.41
45:UC:297:GLU:HG2	45:UC:298:PRO:HD2	2.03	0.41
45:UC:429:GLU:O	45:UC:433:GLU:HG2	2.20	0.41
46:UD:7:ILE:HG23	46:UD:135:ILE:HG12	2.03	0.41
46:UD:421:GLU:HA	46:UD:424:GLN:HB3	2.03	0.41
45:UE:96:LYS:HD3	45:UE:96:LYS:HA	1.80	0.41
45:UE:237:SER:O	45:UE:318:MET:HE2	2.21	0.41
45:UE:252:ILE:HA	45:UE:255:PHE:CD1	2.56	0.41
46:UF:61:PRO:CD	46:UF:84:LEU:HB3	2.51	0.41
46:UF:180:VAL:HG23	46:UF:183:TYR:HD2	1.86	0.41
46:UF:294:PHE:CE2	46:UF:333:VAL:HG11	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:297:LYS:NZ	46:UF:306:ARG:HH22	2.19	0.41
46:UF:297:LYS:HZ2	46:UF:306:ARG:HH22	1.68	0.41
46:UF:321:MET:HE3	45:UG:221:ARG:HD3	2.02	0.41
45:UG:326:LYS:HE3	45:UG:326:LYS:HB3	1.89	0.41
46:UH:297:LYS:H	46:UH:297:LYS:HD2	1.85	0.41
45:UI:71:GLU:HA	45:UI:72:PRO:HD3	1.89	0.41
45:UI:200:VAL:HG13	45:UI:268:MET:CE	2.51	0.41
45:UI:205:ASP:OD1	45:UI:303:ALA:HA	2.20	0.41
46:UJ:44:LEU:HA	46:UJ:47:ILE:HG23	2.03	0.41
46:UJ:143:THR:HB	49:UJ:501:GDP:PB	2.60	0.41
46:UJ:256:ASN:HB3	46:UJ:350:LYS:NZ	2.36	0.41
46:UJ:258:ILE:HG23	45:UK:407:TRP:HE1	1.85	0.41
46:UJ:345:ILE:O	46:UJ:345:ILE:HG23	2.21	0.41
45:UK:238:LEU:HD12	45:UK:239:THR:HG23	2.02	0.41
46:UL:7:ILE:HD13	46:UL:151:LEU:HD21	2.03	0.41
46:UN:69:GLU:CD	46:UN:71:GLY:H	2.24	0.41
46:VB:313:ALA:HB1	46:VB:367:PHE:CE1	2.50	0.41
45:VC:151:SER:O	45:VC:154:LEU:HG	2.21	0.41
45:VE:26:LEU:HD22	45:VE:364:PRO:HD2	2.03	0.41
45:VE:31:GLN:NE2	45:VE:37:PRO:HG3	2.26	0.41
45:VE:221:ARG:NH1	46:VF:325:GLU:HG2	2.36	0.41
45:VE:398:MET:HE1	46:VF:345:ILE:HA	2.03	0.41
46:VF:100:ASN:HB3	46:VF:103:LYS:HG3	2.02	0.41
46:VF:101:TRP:HD1	46:VF:145:SER:OG	2.04	0.41
46:VF:108:GLU:O	46:VF:111:GLU:HG3	2.20	0.41
46:VF:257:LEU:HB3	46:VF:266:PHE:CZ	2.56	0.41
46:VF:396:HIS:HA	46:VF:399:THR:OG1	2.21	0.41
45:VG:250:VAL:HG13	45:VG:254:GLU:HB2	2.02	0.41
45:VI:271:SER:HB2	45:VI:377:MET:CG	2.50	0.41
46:VJ:233:MET:O	46:VJ:236:VAL:HG12	2.20	0.41
45:VK:265:ILE:HG22	45:VK:432:TYR:CE1	2.53	0.41
45:VK:407:TRP:CG	46:VL:255:VAL:HG23	2.55	0.41
46:VL:204:ASN:ND2	49:VL:501:GDP:O2'	2.53	0.41
46:VN:319:GLY:O	46:VN:355:ASP:HA	2.21	0.41
45:WA:17:GLY:HA2	45:WA:20:CYS:SG	2.61	0.41
45:WA:172:TYR:OH	45:WA:191:THR:OG1	2.25	0.41
45:WA:251:ASP:H	45:WA:254:GLU:CD	2.21	0.41
45:WA:254:GLU:HA	45:WA:257:THR:OG1	2.21	0.41
46:WB:292:GLN:HA	46:WB:295:ASP:OD2	2.21	0.41
46:WB:318:ARG:HB2	46:WB:364:ALA:HB3	2.03	0.41
45:WC:72:PRO:O	45:WC:76:ASP:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WC:212:ILE:HD13	45:WC:215:ARG:NH1	2.34	0.41
45:WC:215:ARG:NH2	45:WC:300:ASN:OD1	2.54	0.41
46:WD:81:PHE:HD2	46:WD:84:LEU:HD11	1.86	0.41
46:WD:343:GLU:OE2	46:WD:430:ALA:N	2.51	0.41
45:WE:104:ALA:HB2	45:WE:413:MET:SD	2.61	0.41
45:WE:118:CYS:SG	45:WE:153:LEU:HD11	2.60	0.41
46:WF:175:VAL:CG2	46:WF:205:GLU:HB2	2.51	0.41
46:WF:380:ARG:HA	46:WF:383:GLU:HG3	2.03	0.41
46:WH:258:ILE:HG13	46:WH:258:ILE:O	2.21	0.41
46:WH:391:ARG:HD2	46:WH:391:ARG:HA	1.80	0.41
46:WH:398:TYR:O	46:WH:403:MET:HB2	2.21	0.41
46:WH:409:THR:O	46:WH:412:GLU:HG3	2.21	0.41
45:WI:172:TYR:CD1	45:WI:173:PRO:HD2	2.53	0.41
45:WI:289:ALA:O	45:WI:292:THR:HG22	2.21	0.41
46:WJ:260:PHE:CE2	46:WJ:425:TYR:HE2	2.39	0.41
45:WK:21:TRP:CE3	45:WK:24:PHE:HD2	2.39	0.41
45:WK:41:THR:CG2	45:WK:42:ILE:H	2.30	0.41
45:WK:214:ARG:HH12	45:WK:220:GLU:HG3	1.85	0.41
46:WL:66:MET:HA	46:WL:91:VAL:HG23	2.03	0.41
46:WL:229:VAL:O	46:WL:233:MET:HG2	2.19	0.41
45:WM:51:THR:HG21	45:WM:243:ARG:HD3	2.03	0.41
45:WM:205:ASP:OD1	45:WM:303:ALA:HA	2.21	0.41
46:WN:16:ILE:HD13	46:WN:226:ASN:ND2	2.35	0.41
45:CE:239:THR:HG23	45:CE:243:ARG:HE	1.84	0.41
45:CE:335:ILE:HD11	45:CE:341:ILE:HG13	2.02	0.41
45:DC:71:GLU:OE1	45:DC:73:THR:OG1	2.29	0.41
45:DC:145:THR:HG22	47:DC:501:GTP:PG	2.60	0.41
12:0T:146:MET:CE	46:MB:402:GLY:HA2	2.50	0.41
15:0X:83:MET:HE3	34:7R:47:GLU:HB2	2.02	0.41
20:1K:212:ARG:NH2	45:GA:370:LYS:O	2.53	0.41
21:1L:151:ARG:HD2	46:CH:360:GLY:H	1.84	0.41
14:1V:51:LEU:HB3	45:LI:116:ASP:OD2	2.20	0.41
15:1X:18:ILE:HD11	46:MH:81:PHE:HE1	1.84	0.41
31:2I:55:LYS:NZ	46:FH:114:ASP:OD2	2.54	0.41
31:2I:94:PRO:O	46:GF:332:ASN:ND2	2.53	0.41
23:2O:214:ILE:CD1	40:6G:87:LYS:HD3	2.50	0.41
32:3D:6:LYS:NZ	46:KD:37:HIS:HA	2.36	0.41
10:3Q:6:PHE:HB2	45:WG:121:ARG:HH12	1.84	0.41
34:4R:246:GLN:HE21	45:BE:59:GLY:N	2.19	0.41
35:4S:69:TYR:HA	35:4S:74:LEU:HD13	2.03	0.41
15:4X:2:LYS:HA	15:4X:2:LYS:HD2	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5E:54:LYS:HE3	46:OB:227:HIS:CB	2.51	0.41
37:5G:61:LYS:N	46:OJ:276:ARG:HH22	2.17	0.41
10:5Q:135:ASN:O	10:5Q:137:SER:N	2.53	0.41
35:5S:178:ALA:O	35:5S:181:PRO:HD2	2.21	0.41
10:6Q:83:LEU:H	10:6Q:83:LEU:HD23	1.85	0.41
34:6R:336:CYS:HA	34:6R:349:ILE:HB	2.03	0.41
34:7R:491:GLN:HB3	34:7R:494:GLU:HG3	2.03	0.41
46:AB:20:PHE:CE1	46:AB:233:MET:HB3	2.56	0.41
45:AE:209:ILE:H	45:AE:209:ILE:HG13	1.73	0.41
45:AE:326:LYS:HG3	45:AE:327:ASP:N	2.35	0.41
45:AE:396:ASP:HB3	45:AE:422:ARG:NH1	2.35	0.41
46:AF:131:GLN:O	46:AF:163:ILE:HG12	2.21	0.41
45:AG:137:VAL:HG13	45:AG:168:GLY:HA2	2.03	0.41
45:AK:19:ALA:O	45:AK:22:GLU:HG2	2.21	0.41
45:AK:56:THR:HG23	45:AK:58:ALA:H	1.86	0.41
45:BE:17:GLY:HA2	45:BE:20:CYS:SG	2.61	0.41
45:BE:141:VAL:HG22	45:BE:187:SER:HA	2.03	0.41
45:BE:387:VAL:HG12	45:BE:390:ARG:NH1	2.35	0.41
45:BG:241:SER:HA	45:BG:356:ASN:HD22	1.86	0.41
46:BH:332:ASN:HA	46:BH:336:LYS:HZ3	1.84	0.41
46:BL:116:VAL:HA	46:BL:119:VAL:HG12	2.02	0.41
45:BM:336:LYS:HD3	45:BM:351:PHE:HE1	1.86	0.41
45:BM:427:ALA:O	45:BM:430:LYS:HG3	2.21	0.41
46:BN:214:THR:HG23	46:BN:297:LYS:HE2	2.03	0.41
46:BN:385:PHE:CE2	46:BN:412:GLU:HB3	2.56	0.41
45:CA:276:ILE:HD11	45:CA:280:LYS:HB3	2.03	0.41
45:CC:250:VAL:HG13	45:CC:254:GLU:HB2	2.02	0.41
46:CD:66:MET:SD	46:CD:116:VAL:HG21	2.61	0.41
46:CD:116:VAL:HA	46:CD:119:VAL:HG12	2.03	0.41
46:CF:8:GLN:O	46:CF:66:MET:HG3	2.21	0.41
46:CH:148:GLY:O	46:CH:152:ILE:HG13	2.21	0.41
46:CH:344:TRP:HB3	46:CH:430:ALA:HB2	2.03	0.41
46:CJ:285:THR:HB	46:CJ:287:PRO:HD2	2.03	0.41
46:CL:346:PRO:HD2	45:CM:398:MET:HE1	2.03	0.41
45:CM:188:ILE:HG13	45:CM:425:LEU:HD11	2.02	0.41
46:CN:21:TRP:CZ2	46:CN:63:ALA:HB2	2.56	0.41
46:CN:114:ASP:OD1	46:CN:115:SER:N	2.54	0.41
46:CN:399:THR:HA	46:CN:403:MET:O	2.20	0.41
46:DB:77:ARG:NH1	46:DB:82:GLY:O	2.54	0.41
46:DB:218:THR:HG22	46:DB:219:THR:HG23	2.02	0.41
46:DB:258:ILE:O	45:DC:407:TRP:NE1	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DD:67:ASP:O	46:DD:92:PHE:HA	2.21	0.41
45:DE:377:MET:SD	45:DE:379:SER:HB2	2.61	0.41
45:DG:118:CYS:SG	45:DG:153:LEU:HD11	2.61	0.41
45:DG:326:LYS:HZ2	46:DH:220:PRO:CD	2.34	0.41
46:DH:105:HIS:CD2	46:DH:150:LEU:HB2	2.56	0.41
46:DH:418:LEU:HD12	46:DH:421:GLU:OE2	2.21	0.41
45:DI:141:VAL:HG11	45:DI:172:TYR:HA	2.03	0.41
45:DK:370:LYS:C	45:DK:370:LYS:HD3	2.41	0.41
46:DL:73:MET:HB2	46:DL:90:PHE:CE1	2.56	0.41
46:DN:97:ALA:HB3	46:DN:143:THR:HB	2.02	0.41
45:EC:184:PRO:O	45:EC:188:ILE:HG12	2.21	0.41
45:EC:429:GLU:O	45:EC:433:GLU:HG2	2.21	0.41
46:ED:20:PHE:HE1	46:ED:234:SER:HB3	1.85	0.41
46:ED:289:LEU:O	46:ED:293:MET:HB2	2.21	0.41
45:EI:71:GLU:HA	45:EI:72:PRO:HD3	1.80	0.41
46:EJ:282:ARG:HA	46:EJ:282:ARG:HD2	1.81	0.41
45:EK:338:LYS:HZ2	45:EK:340:THR:HG22	1.85	0.41
45:EK:419:SER:O	45:EK:422:ARG:N	2.52	0.41
45:EM:434:GLU:O	45:EM:437:ILE:HG12	2.21	0.41
46:EN:385:PHE:HZ	46:EN:408:PHE:HD1	1.69	0.41
46:FB:66:MET:HE1	46:FB:116:VAL:HG21	2.03	0.41
46:FB:221:THR:HG23	46:FB:224:ASP:H	1.85	0.41
45:FC:384:ILE:O	45:FC:387:VAL:HG22	2.20	0.41
45:FC:398:MET:CE	46:FD:346:PRO:HD2	2.51	0.41
46:FD:417:ASP:O	46:FD:421:GLU:HG2	2.21	0.41
45:FE:326:LYS:HD2	46:FH:220:PRO:HD2	2.04	0.41
46:FF:294:PHE:HE1	46:FF:367:PHE:CE1	2.39	0.41
46:FH:68:LEU:HB3	46:FH:96:GLY:HA2	2.03	0.41
46:FH:99:ASN:HA	46:FH:142:GLY:H	1.86	0.41
46:FJ:336:LYS:HD2	46:FJ:337:ASN:OD1	2.21	0.41
46:FL:19:LYS:O	46:FL:23:VAL:HG23	2.21	0.41
46:FL:318:ARG:HH11	46:FL:358:PRO:HG3	1.86	0.41
45:FM:269:LEU:HD23	45:FM:379:SER:O	2.22	0.41
46:FN:149:THR:HA	46:FN:152:ILE:HD12	2.02	0.41
45:GA:176:GLN:O	46:GB:347:ASN:ND2	2.49	0.41
46:GB:65:LEU:HD22	46:GB:90:PHE:CE1	2.56	0.41
46:GD:41:ASP:O	46:GD:45:GLU:HG2	2.21	0.41
46:GD:258:ILE:HG13	46:GD:266:PHE:HZ	1.85	0.41
45:GE:406:HIS:CE1	45:GE:407:TRP:CD1	3.09	0.41
46:GF:233:MET:O	46:GF:236:VAL:HG12	2.21	0.41
45:GG:68:LEU:HD11	45:GG:118:CYS:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GG:208:ALA:HB1	45:GG:301:MET:O	2.21	0.41
46:GH:342:VAL:HG13	46:GH:345:ILE:HG22	2.03	0.41
46:GN:69:GLU:HA	46:GN:70:PRO:HD3	1.88	0.41
46:GN:274:THR:HB	46:GN:282:ARG:NH1	2.36	0.41
45:HA:289:ALA:O	45:HA:292:THR:HG22	2.21	0.41
46:HB:3:GLU:N	46:HB:131:GLN:HE22	2.19	0.41
46:HB:237:THR:HA	46:HB:240:LEU:HD13	2.02	0.41
45:HC:31:GLN:HG3	45:HC:37:PRO:HD3	2.03	0.41
45:HG:156:ARG:HD3	45:HG:156:ARG:HA	1.90	0.41
46:HH:68:LEU:HD23	46:HH:143:THR:OG1	2.21	0.41
46:HH:372:THR:HA	46:HH:422:TYR:HE1	1.86	0.41
46:HJ:28:HIS:C	46:HJ:43:GLN:HE21	2.24	0.41
46:HJ:159:TYR:HB3	46:HJ:162:ARG:HG2	2.02	0.41
45:HK:124:LYS:HB2	45:HK:124:LYS:HE2	1.79	0.41
45:HK:319:TYR:CB	45:HK:323:VAL:HG21	2.51	0.41
46:HL:135:ILE:HD12	46:HL:152:ILE:HD11	2.02	0.41
45:IA:258:ASN:CB	45:IA:352:LYS:HD2	2.50	0.41
45:IA:420:GLU:HA	45:IA:423:GLU:OE2	2.21	0.41
46:IB:391:ARG:HA	46:IB:391:ARG:HD2	1.78	0.41
46:ID:46:ARG:HD3	46:ID:46:ARG:HA	1.87	0.41
45:IE:32:PRO:HB3	45:IE:83:TYR:CE1	2.55	0.41
46:IF:233:MET:O	46:IF:236:VAL:HG12	2.21	0.41
46:IF:395:LEU:O	46:IF:399:THR:HG23	2.21	0.41
45:IG:393:HIS:O	45:IG:397:LEU:HD23	2.20	0.41
45:II:55:GLU:OE1	45:II:61:HIS:NE2	2.53	0.41
45:IK:336:LYS:HE3	45:IK:336:LYS:HB2	1.87	0.41
46:IL:31:ASP:OD2	46:IL:37:HIS:ND1	2.54	0.41
45:IM:56:THR:HG22	45:IM:60:LYS:O	2.21	0.41
45:IM:60:LYS:HE2	46:JN:281:TYR:CE1	2.56	0.41
45:IM:98:ASP:OD1	45:IM:99:ALA:N	2.54	0.41
45:IM:112:LYS:HD3	45:IM:112:LYS:N	2.36	0.41
45:IM:275:ILE:O	45:IM:275:ILE:HG13	2.20	0.41
46:IN:386:THR:O	46:IN:390:ARG:HG3	2.21	0.41
46:IN:388:MET:HE3	46:IN:388:MET:HB2	1.65	0.41
45:JA:67:PHE:HE2	45:JA:87:PHE:CE2	2.39	0.41
45:JA:100:ALA:O	46:JB:255:VAL:HG21	2.20	0.41
46:JF:27:GLU:OE1	46:JF:359:LYS:N	2.54	0.41
46:JF:113:ILE:HD13	46:JF:150:LEU:HD22	2.03	0.41
45:JG:3:GLU:HB2	45:JG:129:CYS:SG	2.61	0.41
45:JI:407:TRP:CE3	46:JJ:255:VAL:HG22	2.56	0.41
46:JJ:134:GLN:HA	46:JJ:165:GLU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KA:121:ARG:HD2	45:KA:121:ARG:HA	1.74	0.41
45:KA:296:PHE:HE2	45:KA:377:MET:SD	2.44	0.41
46:KB:87:PRO:HA	46:KB:90:PHE:HD2	1.85	0.41
46:KD:141:GLY:O	46:KD:145:SER:HB3	2.21	0.41
46:KD:178:THR:OG1	46:KD:181:GLU:HB3	2.21	0.41
45:KE:140:SER:HA	45:KE:171:ILE:HB	2.03	0.41
46:KF:289:LEU:HD13	46:KF:365:VAL:HG23	2.03	0.41
45:KG:51:THR:HG23	45:KG:52:PHE:HD1	1.86	0.41
46:KH:268:ILE:HG22	46:KH:368:VAL:HG22	2.03	0.41
46:KJ:213:ARG:HD2	46:KJ:297:LYS:HD3	2.02	0.41
45:KM:308:ARG:HG3	45:NM:282:TYR:CZ	2.56	0.41
45:KM:407:TRP:CZ2	46:KN:258:ILE:HD11	2.56	0.41
46:KN:173:PRO:HG3	46:KN:384:GLN:HE22	1.86	0.41
45:LA:155:GLU:HG2	45:LA:197:HIS:CD2	2.55	0.41
46:LD:16:ILE:HD13	46:LD:226:ASN:OD1	2.21	0.41
46:LH:164:MET:O	46:LH:197:ASP:HB2	2.21	0.41
45:LI:286:LEU:HD12	45:LI:371:VAL:HG21	2.02	0.41
46:LJ:8:GLN:NE2	46:LJ:17:GLY:HA3	2.36	0.41
46:LJ:164:MET:O	46:LJ:197:ASP:HB2	2.21	0.41
45:LK:123:ARG:HA	45:LK:123:ARG:HD3	1.88	0.41
45:LK:179:THR:O	46:LL:350:LYS:HA	2.21	0.41
45:MA:88:HIS:HB3	45:MA:91:GLN:HG2	2.03	0.41
46:MB:9:GLY:HA2	46:MB:66:MET:O	2.21	0.41
45:MC:109:THR:HB	45:MC:110:ILE:HD12	2.03	0.41
46:MD:36:TYR:OH	46:MD:44:LEU:HD11	2.20	0.41
46:MD:330:MET:CE	46:MD:349:ILE:HG21	2.50	0.41
46:MF:391:ARG:HA	46:MF:391:ARG:HD2	1.78	0.41
45:MG:222:PRO:O	46:MH:322:SER:HB2	2.21	0.41
45:MI:265:ILE:HG22	45:MI:380:ASN:HD21	1.86	0.41
45:MM:208:ALA:O	45:MM:212:ILE:HG12	2.20	0.41
45:NA:176:GLN:HG2	45:NA:177:VAL:HG13	2.03	0.41
45:NA:288:VAL:O	45:NA:291:ILE:HG22	2.21	0.41
45:NA:387:VAL:HA	45:NA:390:ARG:HG2	2.02	0.41
46:NB:3:GLU:HB2	46:NB:62:ARG:NH2	2.36	0.41
46:NB:207:LEU:O	46:NB:210:ILE:HG22	2.20	0.41
46:ND:16:ILE:HD13	46:ND:226:ASN:OD1	2.21	0.41
46:ND:21:TRP:CD1	46:ND:85:PHE:HZ	2.39	0.41
46:ND:222:TYR:O	46:ND:226:ASN:ND2	2.24	0.41
45:NE:208:ALA:O	45:NE:212:ILE:HG12	2.20	0.41
46:NH:20:PHE:O	46:NH:24:ILE:HG12	2.20	0.41
46:NH:31:ASP:HB2	46:NH:32:PRO:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NH:31:ASP:OD1	46:NH:35:THR:HB	2.22	0.41
46:NH:139:LEU:HD13	46:NH:168:SER:HB3	2.03	0.41
46:NJ:91:VAL:HG21	46:NJ:116:VAL:HB	2.02	0.41
45:NK:319:TYR:HB3	45:NK:323:VAL:HG21	2.02	0.41
46:NL:117:LEU:HA	46:NL:120:VAL:HG12	2.03	0.41
45:NM:109:THR:OG1	45:NM:110:ILE:HG13	2.19	0.41
45:OA:294:SER:HA	45:OA:297:GLU:HG3	2.03	0.41
46:OB:113:ILE:HG12	46:OB:117:LEU:CD2	2.46	0.41
46:OB:267:MET:HE2	46:OB:267:MET:HB2	1.93	0.41
46:OB:361:LEU:HD23	46:OB:361:LEU:HA	1.92	0.41
46:OF:226:ASN:ND2	49:OF:502:GDP:HN1	2.15	0.41
46:OF:276:ARG:HD3	46:OF:279:GLN:NE2	2.36	0.41
46:OH:32:PRO:HA	46:OH:84:LEU:HD11	2.02	0.41
45:OI:6:SER:O	45:OI:65:ALA:HA	2.21	0.41
45:OK:71:GLU:HB2	45:OK:98:ASP:HB2	2.03	0.41
45:PA:76:ASP:OD1	45:PA:77:GLU:N	2.53	0.41
45:PA:425:LEU:HD23	45:PA:425:LEU:HA	1.92	0.41
46:PB:310:TYR:CD2	46:PB:341:PHE:HE1	2.38	0.41
46:PD:48:ASN:O	46:PD:62:ARG:NH2	2.54	0.41
45:PG:352:LYS:NZ	46:PJ:178:THR:HG23	2.36	0.41
45:PK:306:ASP:HB3	45:PK:309:HIS:CD2	2.56	0.41
45:PK:416:GLY:O	45:PK:419:SER:OG	2.33	0.41
46:PL:399:THR:HA	46:PL:403:MET:O	2.20	0.41
45:PM:319:TYR:CZ	45:PM:328:VAL:HG22	2.55	0.41
45:QA:202:VAL:HG22	45:QA:268:MET:HE3	2.02	0.41
46:QB:65:LEU:HD12	46:QB:90:PHE:CE2	2.56	0.41
46:QD:392:LYS:HA	46:QD:395:LEU:HD13	2.03	0.41
46:QF:101:TRP:HB2	46:QF:184:ASN:HB3	2.02	0.41
46:QF:252:LYS:HZ3	45:QG:100:ALA:HA	1.85	0.41
46:QF:287:PRO:HA	46:QF:329:GLN:NE2	2.32	0.41
45:QG:17:GLY:HA2	45:QG:20:CYS:SG	2.61	0.41
45:QG:231:ILE:O	45:QG:235:ILE:HG12	2.22	0.41
46:QH:69:GLU:HA	46:QH:70:PRO:HD3	1.86	0.41
46:QH:294:PHE:CD1	46:QH:333:VAL:HG21	2.55	0.41
46:QJ:331:LEU:HD11	45:QK:176:GLN:O	2.21	0.41
45:QK:182:VAL:HG22	45:QK:182:VAL:O	2.21	0.41
45:QM:174:SER:HB2	45:QM:177:VAL:HB	2.03	0.41
46:QN:201:VAL:HG22	46:QN:266:PHE:O	2.21	0.41
45:RA:21:TRP:CE3	45:RA:21:TRP:HA	2.56	0.41
46:RD:280:GLN:HG2	46:RD:281:TYR:HD2	1.86	0.41
46:RF:9:GLY:CA	46:RF:66:MET:HB3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RF:259:PRO:HG3	45:RG:404:PHE:CZ	2.56	0.41
46:RF:324:LYS:HG3	46:RF:325:GLU:N	2.36	0.41
45:RI:345:ASP:OD2	45:RI:346:TRP:N	2.54	0.41
46:RJ:19:LYS:NZ	46:RJ:227:HIS:HB2	2.35	0.41
46:RL:16:ILE:HD13	46:RL:226:ASN:OD1	2.21	0.41
46:RL:152:ILE:HG23	46:RL:164:MET:CE	2.51	0.41
45:SC:156:ARG:HG3	45:SC:160:ASP:OD2	2.21	0.41
46:SD:238:CYS:SG	46:SD:318:ARG:HD2	2.61	0.41
46:SD:324:LYS:O	46:SD:328:GLU:OE1	2.39	0.41
45:SE:287:SER:HB3	45:SE:290:GLU:HG2	2.03	0.41
46:SF:187:LEU:HD11	46:SF:408:PHE:HE1	1.86	0.41
46:SF:268:ILE:HG13	46:SF:300:MET:HE2	2.02	0.41
46:SF:378:PHE:O	46:SF:415:MET:HE1	2.21	0.41
45:SG:150:GLY:O	45:SG:154:LEU:HD23	2.20	0.41
46:SH:97:ALA:HB3	46:SH:143:THR:HB	2.03	0.41
45:SI:31:GLN:NE2	45:SI:37:PRO:HB3	2.36	0.41
45:SI:326:LYS:NZ	46:SJ:212:PHE:HB2	2.35	0.41
46:SJ:102:ALA:HB2	46:SJ:398:TYR:HD1	1.86	0.41
46:SJ:321:MET:N	46:SJ:321:MET:SD	2.93	0.41
45:SK:317:MET:HB3	45:SK:317:MET:HE3	1.96	0.41
46:SL:1:MET:HE3	45:SM:96:LYS:HA	2.01	0.41
46:SL:189:VAL:O	46:SL:193:VAL:HG13	2.21	0.41
46:SL:342:VAL:HG22	46:SL:344:TRP:CD1	2.56	0.41
45:SM:141:VAL:HG22	45:SM:187:SER:HA	2.01	0.41
46:TB:20:PHE:HA	46:TB:230:SER:HB2	2.03	0.41
46:TB:256:ASN:HB2	46:TB:350:LYS:NZ	2.36	0.41
46:TD:210:ILE:O	46:TD:214:THR:OG1	2.18	0.41
46:TF:384:GLN:O	46:TF:388:MET:HG2	2.21	0.41
46:TH:175:VAL:HG22	46:TH:205:GLU:HB2	2.02	0.41
45:TI:88:HIS:ND1	45:TI:91:GLN:HG3	2.35	0.41
45:TI:135:PHE:HB2	45:TI:166:LYS:HG3	2.03	0.41
45:TI:276:ILE:HD11	45:TI:280:LYS:HG3	2.03	0.41
46:TL:257:LEU:HD11	46:TL:314:SER:HB3	2.02	0.41
46:TL:258:ILE:HG13	46:TL:266:PHE:HZ	1.86	0.41
46:TL:328:GLU:OE1	46:TL:329:GLN:HG2	2.20	0.41
45:TM:21:TRP:CZ2	45:TM:65:ALA:HB2	2.55	0.41
45:TM:145:THR:HG22	47:TM:501:GTP:PG	2.61	0.41
45:TM:188:ILE:HD11	45:TM:391:LEU:HB3	2.03	0.41
45:TM:434:GLU:O	45:TM:437:ILE:HG12	2.20	0.41
46:TN:182:PRO:HG3	46:TN:384:GLN:CD	2.41	0.41
46:UD:324:LYS:HE3	45:UE:210:TYR:HD1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:55:THR:HG23	46:VF:283:ALA:HA	2.03	0.41
46:UH:4:ILE:HD11	46:UH:131:GLN:HB2	2.02	0.41
46:UH:164:MET:CE	46:UH:196:ALA:HA	2.51	0.41
45:UI:326:LYS:NZ	46:UJ:220:PRO:HD2	2.36	0.41
45:VA:50:ASN:O	45:VA:64:ARG:NH1	2.54	0.41
45:VA:175:PRO:HG3	45:VA:390:ARG:NH1	2.36	0.41
45:VA:387:VAL:O	45:VA:391:LEU:HD23	2.21	0.41
45:VC:88:HIS:HB3	45:VC:91:GLN:HG2	2.02	0.41
45:VC:282:TYR:OH	45:VC:370:LYS:O	2.22	0.41
46:VD:183:TYR:CE1	46:VD:388:MET:HE3	2.56	0.41
45:VE:36:MET:HB2	45:VE:61:HIS:CE1	2.56	0.41
46:VF:267:MET:HE2	46:VF:299:MET:SD	2.61	0.41
46:VH:273:LEU:N	46:VH:292:GLN:HE22	2.06	0.41
46:VJ:173:PRO:HD3	46:VJ:380:ARG:NH1	2.35	0.41
45:VK:316:SER:HA	45:VK:352:LYS:HB2	2.02	0.41
46:VL:201:VAL:HG23	46:VL:301:CYS:SG	2.61	0.41
45:WA:21:TRP:CZ2	45:WA:65:ALA:HB2	2.56	0.41
45:WA:349:THR:HG21	46:WD:181:GLU:OE2	2.21	0.41
45:WC:252:ILE:HA	45:WC:255:PHE:HD2	1.85	0.41
46:WD:271:ALA:HB3	46:WD:365:VAL:HB	2.02	0.41
45:WG:167:LEU:HG	45:WG:200:VAL:HB	2.03	0.41
46:WH:321:MET:HE3	46:WH:326:VAL:HG23	2.03	0.41
46:WH:396:HIS:CD2	46:WH:397:TRP:CD1	3.09	0.41
46:WJ:201:VAL:HG23	46:WJ:301:CYS:SG	2.61	0.41
45:WK:68:LEU:HD21	45:WK:118:CYS:CB	2.51	0.41
46:WL:63:ALA:O	46:WL:89:ASN:ND2	2.53	0.41
46:WL:108:GLU:O	46:WL:111:GLU:HG3	2.20	0.41
46:WL:149:THR:HA	46:WL:152:ILE:HD12	2.02	0.41
23:1O:270:ASN:HB2	45:UA:278:ALA:HB1	2.01	0.40
4:2D:177:THR:HG22	46:EJ:48:ASN:OD1	2.20	0.40
28:2F:61:THR:HG21	46:GF:74:ASP:HB2	2.03	0.40
14:2V:106:TYR:HB2	45:LE:420:GLU:OE1	2.21	0.40
21:3L:45:ARG:HD3	46:BB:362:LYS:HG2	2.03	0.40
34:4R:12:LEU:C	46:LF:227:HIS:HE1	2.24	0.40
34:4R:226:LYS:O	34:4R:230:GLU:HG3	2.21	0.40
36:5A:150:PHE:HE1	45:NC:26:LEU:HD11	1.86	0.40
36:5B:73:SER:OG	36:5B:74:SER:N	2.54	0.40
36:5B:74:SER:O	36:5B:75:TYR:HD2	2.04	0.40
37:5E:176:ASP:O	37:5E:180:THR:HG23	2.20	0.40
37:5E:209:ARG:HH22	45:LC:264:ARG:HH12	1.68	0.40
37:5F:16:GLN:HG2	37:5F:22:LYS:NZ	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5G:172:ASN:OD1	37:5G:172:ASN:N	2.53	0.40
37:5H:29:LYS:NZ	45:OK:219:ILE:HD13	2.36	0.40
37:5H:61:LYS:HG2	46:ON:276:ARG:NH2	2.36	0.40
34:5R:32:THR:HA	45:LG:1:MET:CE	2.50	0.40
34:5R:318:TYR:OH	46:CJ:273:LEU:HA	2.21	0.40
34:5R:389:ASN:OD1	34:5R:390:GLY:N	2.54	0.40
39:6F:68:TRP:CD1	39:6F:68:TRP:N	2.88	0.40
40:6G:217:TYR:HA	40:6G:220:LEU:HG	2.02	0.40
40:6G:265:LEU:N	40:6G:266:PRO:HD3	2.36	0.40
40:6G:268:VAL:HG21	40:6G:271:TYR:CE2	2.56	0.40
41:6H:276:ILE:H	41:6H:276:ILE:HD12	1.85	0.40
41:6H:286:GLU:HG3	41:6H:289:LYS:H	1.85	0.40
34:6R:13:PRO:HA	46:LN:227:HIS:ND1	2.36	0.40
34:6R:121:TYR:HB2	34:6R:126:THR:HG22	2.02	0.40
34:6R:224:ASN:O	34:6R:227:GLU:HG3	2.20	0.40
34:6R:495:ILE:HA	34:6R:503:PHE:O	2.21	0.40
34:7R:567:ASN:OD1	34:7R:568:ASP:N	2.54	0.40
45:AA:179:THR:O	46:AB:350:LYS:HA	2.21	0.40
45:AA:288:VAL:HG23	45:AA:319:TYR:HE2	1.86	0.40
45:AC:71:GLU:OE2	45:AC:73:THR:OG1	2.36	0.40
46:AD:8:GLN:HE21	46:AD:65:LEU:CD1	2.34	0.40
46:AD:40:SER:O	46:AD:43:GLN:HG3	2.20	0.40
46:AD:139:LEU:HD13	46:AD:168:SER:HB3	2.02	0.40
46:AF:130:LEU:HD12	46:AF:130:LEU:HA	1.95	0.40
46:AF:262:ARG:NH1	46:AF:421:GLU:HG3	2.36	0.40
46:AJ:69:GLU:HA	46:AJ:70:PRO:HD3	1.89	0.40
45:AM:21:TRP:HZ2	45:AM:65:ALA:HB2	1.86	0.40
46:AN:7:ILE:HG21	46:AN:151:LEU:HD21	2.03	0.40
46:AN:116:VAL:O	46:AN:120:VAL:HG23	2.21	0.40
46:AN:133:PHE:HB2	46:AN:164:MET:SD	2.62	0.40
46:BB:316:LEU:HG	46:BB:352:SER:OG	2.21	0.40
45:BC:11:GLN:HE21	45:BC:15:GLN:NE2	2.17	0.40
45:BC:17:GLY:HA2	45:BC:20:CYS:SG	2.60	0.40
46:BF:5:VAL:HG12	46:BF:62:ARG:HD3	2.04	0.40
46:BF:6:HIS:O	46:BF:63:ALA:HA	2.21	0.40
46:BF:347:ASN:C	46:BF:347:ASN:HD22	2.24	0.40
45:BG:210:TYR:CE2	46:BH:324:LYS:HD3	2.56	0.40
45:BK:5:ILE:O	45:BK:135:PHE:HA	2.22	0.40
45:BK:227:LEU:O	45:BK:231:ILE:HG12	2.20	0.40
45:BK:311:LYS:HD2	45:BK:343:PHE:C	2.41	0.40
45:BM:265:ILE:HG22	45:BM:432:TYR:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:247:ASN:O	46:BN:252:LYS:NZ	2.33	0.40
45:CA:107:HIS:O	45:CA:107:HIS:ND1	2.54	0.40
45:CA:225:THR:C	45:CA:229:ARG:HE	2.25	0.40
46:CB:268:ILE:O	46:CB:300:MET:HB2	2.20	0.40
46:CF:175:VAL:O	46:CF:175:VAL:HG23	2.21	0.40
46:CF:375:GLN:O	46:CF:379:LYS:HG3	2.21	0.40
45:CI:133:GLN:HB3	45:CI:252:ILE:HD11	2.03	0.40
45:CI:194:LEU:HD13	45:CI:198:THR:HG21	2.03	0.40
46:CJ:175:VAL:HG23	46:CJ:175:VAL:O	2.20	0.40
46:CJ:318:ARG:HH11	46:CJ:358:PRO:HG3	1.85	0.40
45:CK:368:LEU:H	45:CK:368:LEU:HD12	1.85	0.40
46:CL:267:MET:CE	46:CL:301:CYS:HB2	2.51	0.40
46:CL:375:GLN:C	46:CL:379:LYS:HZ2	2.24	0.40
45:CM:326:LYS:NZ	46:CN:220:PRO:HB2	2.36	0.40
45:DE:301:MET:CE	45:DE:307:PRO:HD3	2.51	0.40
46:DF:256:ASN:ND2	46:DF:350:LYS:HD3	2.36	0.40
46:DF:324:LYS:HB2	46:DF:324:LYS:HE2	1.69	0.40
45:DG:91:GLN:HA	45:DG:121:ARG:HD3	2.03	0.40
46:DJ:48:ASN:HA	46:DJ:51:TYR:O	2.21	0.40
45:DK:5:ILE:HB	45:DK:135:PHE:CD1	2.56	0.40
45:DK:241:SER:HB2	45:DK:249:ASN:HD22	1.86	0.40
46:DL:2:ARG:HG3	45:DM:96:LYS:NZ	2.36	0.40
46:DL:113:ILE:HA	46:DL:116:VAL:HG12	2.03	0.40
46:DL:344:TRP:CE3	46:DL:345:ILE:HG12	2.56	0.40
46:DN:173:PRO:HG2	46:DN:380:ARG:HD3	2.04	0.40
46:EB:332:ASN:HB3	46:EB:336:LYS:NZ	2.35	0.40
45:EC:174:SER:HB2	45:EC:177:VAL:O	2.20	0.40
46:ED:327:ASP:OD1	46:ED:328:GLU:N	2.54	0.40
45:EE:174:SER:HB2	45:EE:177:VAL:O	2.21	0.40
45:EG:20:CYS:HA	45:EG:232:ALA:HB1	2.03	0.40
45:EG:135:PHE:HB2	45:EG:166:LYS:HG2	2.03	0.40
45:EG:301:MET:HA	45:EG:301:MET:HE3	2.02	0.40
46:EH:54:ALA:HA	46:FH:283:ALA:HB2	2.03	0.40
45:EI:3:GLU:HG2	45:EI:64:ARG:CZ	2.51	0.40
46:EJ:127:CYS:SG	46:EJ:130:LEU:HD22	2.61	0.40
46:EJ:420:SER:O	46:EJ:423:GLN:HG3	2.20	0.40
45:EK:145:THR:HG22	47:EK:501:GTP:PG	2.62	0.40
45:EM:11:GLN:O	45:EM:15:GLN:HG2	2.20	0.40
45:EM:21:TRP:CE3	45:EM:24:PHE:HD2	2.39	0.40
45:FA:317:MET:HG3	45:FA:377:MET:HB3	2.03	0.40
45:FA:320:ARG:NH2	45:FA:360:PRO:HA	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FF:378:PHE:HA	46:FF:381:VAL:HG12	2.03	0.40
45:FG:174:SER:HB3	45:FG:207:GLU:CD	2.41	0.40
46:FH:392:LYS:HA	46:FH:392:LYS:HD3	1.92	0.40
45:FI:210:TYR:CE1	45:FI:227:LEU:HD11	2.56	0.40
45:FM:69:ASP:O	45:FM:94:SER:HA	2.21	0.40
45:FM:98:ASP:OD1	45:FM:99:ALA:N	2.54	0.40
45:GA:180:ALA:HA	46:GB:350:LYS:HD2	2.03	0.40
45:GA:352:LYS:HZ1	46:GD:178:THR:HA	1.84	0.40
45:GC:329:ASN:HB3	46:GF:175:VAL:HG12	2.01	0.40
46:GF:21:TRP:CZ3	46:GF:61:PRO:HB3	2.56	0.40
46:GH:44:LEU:HD23	46:GH:44:LEU:HA	1.87	0.40
45:GI:271:SER:HB2	45:GI:377:MET:CG	2.51	0.40
46:GJ:316:LEU:HD23	46:GJ:352:SER:HB2	2.02	0.40
47:GK:501:GTP:O1G	46:GL:252:LYS:NZ	2.28	0.40
46:GL:3:GLU:OE2	46:GL:127:CYS:HB2	2.22	0.40
45:GM:124:LYS:HE2	45:GM:124:LYS:HB2	1.88	0.40
45:HA:124:LYS:HA	45:HA:127:ASP:OD1	2.21	0.40
45:HA:426:ALA:O	45:HA:429:GLU:HG3	2.21	0.40
46:HB:16:ILE:HD12	46:HB:229:VAL:HG11	2.04	0.40
45:HE:195:LEU:HD21	45:HE:264:ARG:HH21	1.86	0.40
46:HF:377:MET:O	46:HF:380:ARG:HG2	2.21	0.40
46:HL:262:ARG:HB2	46:HL:262:ARG:CZ	2.50	0.40
46:HN:55:THR:HG23	46:IN:283:ALA:HA	2.03	0.40
45:IC:107:HIS:HD2	45:IC:151:SER:HB2	1.86	0.40
45:IC:155:GLU:OE2	45:IC:156:ARG:NH2	2.52	0.40
46:ID:7:ILE:HD13	46:ID:64:ILE:HB	2.03	0.40
46:IF:103:LYS:HG3	46:IF:401:GLU:OE2	2.22	0.40
46:IH:8:GLN:OE1	46:IH:17:GLY:HA3	2.21	0.40
46:IH:409:THR:O	46:IH:412:GLU:HG3	2.21	0.40
45:IK:22:GLU:O	45:IK:26:LEU:HD23	2.21	0.40
45:IK:202:VAL:HG12	45:IK:204:LEU:HG	2.02	0.40
46:IL:70:PRO:O	46:IL:74:ASP:HB2	2.21	0.40
45:IM:269:LEU:HD23	45:IM:379:SER:O	2.21	0.40
46:IN:286:VAL:HG21	46:IN:321:MET:CE	2.50	0.40
45:JA:215:ARG:NH2	45:JA:299:ALA:O	2.54	0.40
46:JB:260:PHE:HB2	46:JB:263:LEU:HG	2.02	0.40
46:JJ:11:GLN:HG3	46:JJ:12:CYS:N	2.36	0.40
45:JK:20:CYS:HA	45:JK:232:ALA:HB1	2.03	0.40
46:JL:418:LEU:O	46:JL:422:TYR:HB2	2.21	0.40
46:JN:263:LEU:HD22	46:JN:422:TYR:CD1	2.56	0.40
45:KC:25:CYS:HB2	45:KC:30:ILE:HB	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KD:3:GLU:OE2	46:KD:127:CYS:HB2	2.20	0.40
46:KD:27:GLU:OE1	46:KD:28:HIS:CE1	2.74	0.40
45:KE:392:ASP:OD2	45:KE:422:ARG:NE	2.53	0.40
46:KF:21:TRP:CZ3	46:KF:61:PRO:HB3	2.56	0.40
46:KF:66:MET:HE2	46:KF:66:MET:HB2	1.94	0.40
45:KI:175:PRO:HG2	45:KI:176:GLN:OE1	2.21	0.40
46:KJ:115:SER:O	46:KJ:119:VAL:HG23	2.21	0.40
45:KK:115:VAL:HG22	45:KK:119:LEU:HD23	2.02	0.40
46:KL:221:THR:HG23	46:KL:223:GLY:N	2.35	0.40
45:KM:270:SER:O	45:KM:302:MET:HE2	2.21	0.40
46:KN:62:ARG:HD3	46:KN:123:GLU:OE2	2.21	0.40
46:KN:406:MET:N	46:KN:406:MET:SD	2.94	0.40
45:LA:254:GLU:O	45:LA:255:PHE:HD1	2.04	0.40
45:LA:338:LYS:HA	45:LA:338:LYS:HD2	1.86	0.40
45:LC:210:TYR:HB3	46:LD:324:LYS:NZ	2.36	0.40
46:LF:233:MET:O	46:LF:236:VAL:HG12	2.21	0.40
45:LG:88:HIS:ND1	45:LG:90:GLU:HG2	2.37	0.40
45:LI:384:ILE:O	45:LI:387:VAL:HG22	2.22	0.40
45:LK:55:GLU:OE2	45:LK:56:THR:N	2.53	0.40
45:LM:66:VAL:HG11	45:LM:122:ILE:HD11	2.03	0.40
46:MD:101:TRP:HB3	46:MD:398:TYR:HE1	1.85	0.40
45:ME:132:LEU:HD22	45:ME:164:LYS:HZ3	1.86	0.40
46:MF:66:MET:HE3	46:MF:151:LEU:HD22	2.03	0.40
45:MG:109:THR:HG22	45:MG:110:ILE:HG23	2.02	0.40
45:MK:179:THR:O	46:ML:350:LYS:HA	2.21	0.40
46:ML:32:PRO:HA	46:ML:84:LEU:HD11	2.03	0.40
46:MN:117:LEU:HA	46:MN:120:VAL:HG12	2.02	0.40
46:MN:238:CYS:HB2	46:MN:318:ARG:NH1	2.36	0.40
46:MN:409:THR:O	46:MN:412:GLU:HG2	2.20	0.40
46:NB:131:GLN:O	46:NB:162:ARG:NE	2.54	0.40
45:NC:210:TYR:HE1	45:NC:227:LEU:HD11	1.86	0.40
45:NC:279:GLU:HG3	45:NC:281:ALA:H	1.86	0.40
46:ND:29:GLY:HA2	46:ND:37:HIS:CE1	2.56	0.40
46:ND:330:MET:SD	46:ND:349:ILE:HG21	2.62	0.40
45:NE:249:ASN:OD1	46:NH:11:GLN:NE2	2.48	0.40
45:NG:165:SER:HA	45:NG:199:ASP:OD2	2.20	0.40
46:NH:256:ASN:ND2	46:NH:350:LYS:HB2	2.36	0.40
45:NI:103:PHE:H	45:NI:408:TYR:HE2	1.68	0.40
46:NJ:270:PHE:CE1	46:NJ:364:ALA:HB1	2.56	0.40
45:NK:88:HIS:ND1	45:NK:90:GLU:HG3	2.36	0.40
46:NL:66:MET:HA	46:NL:91:VAL:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NL:282:ARG:HB3	46:NL:283:ALA:H	1.63	0.40
45:NM:205:ASP:OD2	45:NM:206:ASN:N	2.53	0.40
46:NN:132:GLY:HA3	46:NN:163:ILE:HG13	2.02	0.40
46:NN:286:VAL:HG23	46:NN:287:PRO:HD3	2.02	0.40
45:OA:406:HIS:CD2	45:OA:407:TRP:HD1	2.39	0.40
46:OB:266:PHE:CD1	46:OB:370:ASN:HB2	2.55	0.40
46:OB:404:ASP:N	46:OB:404:ASP:OD1	2.54	0.40
46:OB:417:ASP:O	46:OB:421:GLU:HG3	2.20	0.40
45:OC:7:ILE:HG22	45:OC:66:VAL:HB	2.03	0.40
45:OC:53:PHE:O	45:OC:64:ARG:NH2	2.54	0.40
45:OC:177:VAL:HG11	46:OD:324:LYS:HZ2	1.82	0.40
46:OD:318:ARG:NH2	46:OD:358:PRO:HG3	2.37	0.40
46:OF:199:CYS:HB3	46:OF:265:PHE:HD1	1.86	0.40
46:OF:285:THR:HG23	46:OF:287:PRO:HD2	2.03	0.40
45:OG:32:PRO:O	45:OG:86:LEU:HB2	2.21	0.40
45:OG:384:ILE:O	45:OG:387:VAL:HG12	2.21	0.40
45:OG:416:GLY:O	45:OG:419:SER:N	2.53	0.40
46:OH:310:TYR:O	46:OH:342:VAL:HG12	2.21	0.40
46:OJ:64:ILE:HA	46:OJ:89:ASN:HB3	2.03	0.40
46:OL:184:ASN:OD1	46:OL:185:ALA:N	2.54	0.40
45:OM:169:PHE:CE1	45:OM:202:VAL:HG21	2.55	0.40
45:OM:288:VAL:O	45:OM:292:THR:HG23	2.21	0.40
45:PG:181:VAL:HG23	46:PH:347:ASN:O	2.21	0.40
46:PH:99:ASN:OD1	46:PH:142:GLY:N	2.54	0.40
45:PI:175:PRO:HA	45:PI:390:ARG:HH11	1.85	0.40
45:PI:222:PRO:HG2	46:PJ:324:LYS:HE2	2.02	0.40
46:PJ:229:VAL:O	46:PJ:233:MET:HG3	2.21	0.40
45:PK:434:GLU:O	45:PK:437:ILE:HG22	2.21	0.40
45:PM:104:ALA:HB1	45:PM:411:GLU:OE1	2.21	0.40
46:PN:274:THR:CG2	46:PN:282:ARG:HH21	2.33	0.40
45:QA:288:VAL:HA	45:QA:291:ILE:HG12	2.02	0.40
45:QA:378:ILE:HD12	45:QA:378:ILE:HA	1.97	0.40
45:QC:32:PRO:HB3	45:QC:83:TYR:CE1	2.56	0.40
45:QC:131:GLY:O	45:QC:133:GLN:NE2	2.55	0.40
45:QC:256:GLN:CD	46:QD:397:TRP:HE1	2.23	0.40
46:QD:350:LYS:HD2	46:QD:351:SER:N	2.36	0.40
45:QE:98:ASP:OD1	45:QE:99:ALA:N	2.54	0.40
46:QH:50:TYR:CE2	46:QH:241:ARG:HD3	2.57	0.40
46:QH:116:VAL:O	46:QH:120:VAL:HG23	2.21	0.40
45:QI:141:VAL:HG11	45:QI:172:TYR:HA	2.02	0.40
45:QM:188:ILE:HG13	45:QM:189:LEU:HD12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QN:380:ARG:HE	46:QN:380:ARG:HB3	1.76	0.40
46:RD:347:ASN:ND2	45:RE:176:GLN:O	2.40	0.40
45:RE:133:GLN:HG3	45:RE:242:LEU:HD21	2.02	0.40
45:RE:280:LYS:O	45:RE:280:LYS:HG3	2.21	0.40
45:RE:333:ALA:O	45:RE:337:THR:HG23	2.21	0.40
46:RF:178:THR:HB	46:RF:181:GLU:HG3	2.04	0.40
46:RF:252:LYS:HA	46:RF:255:VAL:HG12	2.02	0.40
45:RG:235:ILE:O	45:RG:239:THR:HG22	2.21	0.40
45:RG:287:SER:O	45:RG:291:ILE:HG23	2.20	0.40
45:RG:352:LYS:NZ	46:RH:179:VAL:HG22	2.36	0.40
46:RH:19:LYS:O	46:RH:23:VAL:HG23	2.21	0.40
45:RK:433:GLU:O	45:RK:437:ILE:HG12	2.20	0.40
46:RL:316:LEU:HB3	46:RL:366:THR:OG1	2.20	0.40
45:RM:107:HIS:CE1	45:RM:108:TYR:CE1	3.09	0.40
45:RM:174:SER:OG	45:RM:207:GLU:OE1	2.28	0.40
46:SB:2:ARG:NH2	45:SC:71:GLU:OE2	2.49	0.40
46:SB:282:ARG:HE	46:SB:283:ALA:N	2.19	0.40
45:SC:188:ILE:HD13	45:SC:422:ARG:NH2	2.36	0.40
46:SD:238:CYS:HB2	46:SD:318:ARG:HH11	1.86	0.40
46:SF:222:TYR:O	46:SF:226:ASN:ND2	2.32	0.40
45:SG:196:GLU:N	45:SG:196:GLU:OE2	2.54	0.40
45:SI:265:ILE:HD12	45:SI:432:TYR:CE2	2.56	0.40
45:SK:135:PHE:HB2	45:SK:166:LYS:HG2	2.03	0.40
45:SK:348:PRO:HB2	46:SL:384:GLN:HE22	1.86	0.40
45:SK:411:GLU:N	45:SK:411:GLU:OE1	2.54	0.40
45:SM:118:CYS:O	45:SM:122:ILE:HG12	2.22	0.40
45:SM:212:ILE:HD11	45:SM:300:ASN:HA	2.04	0.40
46:SN:238:CYS:SG	46:SN:239:CYS:N	2.95	0.40
45:TA:68:LEU:HD21	45:TA:118:CYS:SG	2.61	0.40
46:TD:68:LEU:HD23	46:TD:147:MET:HE1	2.02	0.40
46:TD:399:THR:HA	46:TD:403:MET:O	2.21	0.40
46:TF:107:THR:HG21	46:TF:401:GLU:OE2	2.21	0.40
46:TJ:267:MET:HB2	46:TJ:299:MET:CE	2.51	0.40
46:TJ:350:LYS:HG3	45:TK:179:THR:O	2.20	0.40
45:TM:254:GLU:OE2	45:TM:257:THR:OG1	2.32	0.40
45:TM:430:LYS:HE2	45:TM:430:LYS:HA	2.03	0.40
45:UA:287:SER:O	45:UA:291:ILE:HG23	2.21	0.40
46:UB:130:LEU:HG	46:UB:132:GLY:N	2.36	0.40
46:UB:276:ARG:HA	46:UB:276:ARG:HD3	1.87	0.40
46:UB:337:ASN:OD1	46:UB:340:TYR:HB2	2.21	0.40
46:UB:345:ILE:HG22	46:UB:348:ASN:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UD:105:HIS:CD2	46:UD:150:LEU:HG	2.56	0.40
45:UE:2:ARG:O	45:UE:51:THR:HA	2.21	0.40
45:UE:21:TRP:CZ2	45:UE:65:ALA:HB2	2.56	0.40
46:UF:48:ASN:HA	46:UF:51:TYR:O	2.20	0.40
46:UF:251:ARG:O	46:UF:255:VAL:HG23	2.21	0.40
46:UF:282:ARG:NE	46:UF:288:GLU:OE1	2.38	0.40
46:UH:237:THR:OG1	46:UH:241:ARG:NH1	2.45	0.40
46:UH:252:LYS:HA	45:UI:100:ALA:HB1	2.03	0.40
46:UJ:323:THR:HG21	45:UK:224:TYR:CE1	2.56	0.40
45:UK:272:TYR:HD2	45:UK:275:ILE:HD11	1.86	0.40
45:UK:434:GLU:O	45:UK:437:ILE:HG12	2.21	0.40
45:VA:179:THR:HG22	46:VB:350:LYS:NZ	2.37	0.40
45:VA:238:LEU:HD12	45:VA:239:THR:HG23	2.02	0.40
46:VB:309:ARG:N	46:VB:372:THR:OG1	2.47	0.40
45:VC:209:ILE:HG21	45:VC:227:LEU:HD13	2.02	0.40
46:VD:304:ASP:OD1	46:VD:306:ARG:HG2	2.21	0.40
46:VD:391:ARG:HD2	46:VD:391:ARG:HA	1.75	0.40
46:VF:68:LEU:HD23	46:VF:143:THR:OG1	2.21	0.40
46:VF:376:GLU:O	46:VF:380:ARG:HG2	2.21	0.40
45:VG:104:ALA:HB2	45:VG:413:MET:HG3	2.04	0.40
45:VG:121:ARG:HD2	45:VG:124:LYS:NZ	2.36	0.40
46:VH:68:LEU:HD13	46:VH:68:LEU:HA	1.88	0.40
46:VH:211:CYS:O	46:VH:215:LEU:HB2	2.21	0.40
45:VI:407:TRP:CE3	46:VJ:255:VAL:HG22	2.56	0.40
46:VJ:141:GLY:HA3	49:VJ:501:GDP:O3A	2.20	0.40
45:VK:200:VAL:HG13	45:VK:268:MET:SD	2.61	0.40
45:WA:222:PRO:HD2	46:WB:324:LYS:NZ	2.36	0.40
45:WC:88:HIS:CE1	45:WC:90:GLU:HG3	2.55	0.40
45:WC:226:ASN:ND2	45:WC:367:ASP:OD2	2.54	0.40
45:WC:280:LYS:HA	45:WC:283:HIS:HD2	1.86	0.40
45:WC:353:VAL:HG12	46:WF:177:ASP:HB2	2.03	0.40
45:WC:422:ARG:HA	45:WC:422:ARG:HD2	1.96	0.40
46:WD:206:ALA:O	46:WD:210:ILE:HG12	2.21	0.40
46:WF:88:ASP:OD1	46:WF:89:ASN:N	2.54	0.40
46:WF:390:ARG:HA	46:WF:390:ARG:CZ	2.51	0.40
46:WH:257:LEU:HB3	46:WH:266:PHE:CZ	2.56	0.40
46:WJ:22:GLU:HG2	46:WJ:81:PHE:CD1	2.56	0.40
45:WK:36:MET:HA	45:WK:37:PRO:HD3	1.85	0.40
45:WK:208:ALA:O	45:WK:212:ILE:HG12	2.20	0.40
46:WL:19:LYS:NZ	46:WL:227:HIS:HA	2.36	0.40
46:WN:8:GLN:O	46:WN:66:MET:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WN:356:ILE:HD12	46:WN:357:PRO:HD2	2.02	0.40
45:DC:172:TYR:HD2	45:DC:203:MET:SD	2.44	0.40
11:OS:257:PRO:HG2	46:AB:417:ASP:OD2	2.22	0.40
1:1A:34:LEU:HD13	46:MF:40:SER:OG	2.21	0.40
4:1D:6:ARG:HA	45:CG:84:ARG:HH21	1.86	0.40
4:1D:171:LEU:HD12	45:EG:89:PRO:HA	2.03	0.40
8:1H:115:ARG:HE	46:HL:279:GLN:HG2	1.86	0.40
8:1H:193:TYR:CE2	45:HG:370:LYS:HG2	2.56	0.40
18:1I:141:PHE:HD2	46:KF:40:SER:HB3	1.85	0.40
21:2L:772:ASN:HD21	45:BK:279:GLU:HB3	1.84	0.40
23:2O:156:ARG:HH22	45:VK:369:ALA:N	2.18	0.40
23:2O:264:ILE:HD11	45:VG:282:TYR:CD2	2.56	0.40
34:4R:311:LYS:HE2	34:4R:311:LYS:HB2	1.82	0.40
34:4R:394:GLU:H	34:4R:394:GLU:CD	2.24	0.40
15:4X:53:ILE:O	15:4X:57:LYS:HG2	2.21	0.40
37:5F:107:VAL:HG23	37:5F:108:LYS:N	2.37	0.40
37:5F:135:LYS:O	37:5F:138:LEU:HG	2.21	0.40
10:5Q:37:ILE:HG22	10:5Q:38:THR:O	2.21	0.40
34:5R:335:VAL:HG23	34:5R:368:GLN:HE21	1.86	0.40
34:5R:351:ASN:OD1	34:5R:352:CYS:N	2.53	0.40
35:5S:130:ARG:HG2	35:5S:130:ARG:O	2.20	0.40
35:5S:217:LEU:O	35:5S:221:THR:HG23	2.21	0.40
41:6H:219:THR:HG22	46:FD:320:ARG:HH12	1.85	0.40
10:6Q:20:LYS:HZ1	10:6Q:22:LEU:H	1.69	0.40
34:7R:249:LEU:HA	45:CA:370:LYS:HE3	2.02	0.40
45:AA:317:MET:HB3	45:AA:377:MET:HG2	2.02	0.40
46:AB:69:GLU:HA	46:AB:70:PRO:HD3	1.88	0.40
46:AF:139:LEU:HD13	46:AF:168:SER:HB3	2.03	0.40
45:AG:175:PRO:HG3	45:AG:390:ARG:NH2	2.36	0.40
46:AH:117:LEU:HA	46:AH:120:VAL:HG12	2.03	0.40
46:AH:406:MET:HA	46:AH:406:MET:HE2	2.02	0.40
45:AI:36:MET:HG3	45:AI:61:HIS:CE1	2.57	0.40
45:AI:284:GLU:OE1	45:AI:284:GLU:N	2.54	0.40
46:AL:22:GLU:OE2	46:AL:80:PRO:HB2	2.21	0.40
46:AL:179:VAL:O	46:AL:388:MET:HE1	2.22	0.40
46:AN:348:ASN:O	46:AN:349:ILE:HD13	2.21	0.40
45:BA:175:PRO:CA	45:BA:390:ARG:HE	2.34	0.40
45:BA:287:SER:O	45:BA:290:GLU:HG2	2.21	0.40
45:BA:352:LYS:HD2	46:BD:178:THR:HA	2.03	0.40
46:BB:97:ALA:HA	46:BB:103:LYS:HE3	2.03	0.40
45:BC:251:ASP:H	45:BC:254:GLU:CG	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BD:149:THR:OG1	46:BD:191:GLN:HB2	2.22	0.40
46:BD:203:ASP:O	46:BD:207:LEU:HD23	2.21	0.40
45:BE:175:PRO:HA	45:BE:390:ARG:NE	2.36	0.40
46:BF:1:MET:O	46:BF:2:ARG:HG2	2.21	0.40
46:BF:72:THR:O	46:BF:76:VAL:HG13	2.21	0.40
46:BF:304:ASP:HB3	46:BF:307:HIS:ND1	2.35	0.40
46:BF:328:GLU:OE2	46:BF:329:GLN:HG2	2.20	0.40
45:BG:171:ILE:HG23	45:BG:204:LEU:O	2.21	0.40
46:BH:58:ARG:HD3	46:CF:280:GLN:OE1	2.21	0.40
46:BH:190:HIS:CD2	46:BH:411:ALA:HA	2.57	0.40
46:BH:380:ARG:HG3	46:BH:381:VAL:N	2.36	0.40
45:BI:101:ASN:HD22	45:BI:143:GLY:HA2	1.85	0.40
46:BJ:40:SER:OG	46:BJ:43:GLN:HG3	2.21	0.40
45:BK:226:ASN:HA	45:BK:229:ARG:HD2	2.02	0.40
45:BK:332:ILE:HD12	45:BK:351:PHE:CD1	2.56	0.40
45:BK:414:GLU:HG3	45:BK:417:GLU:HG2	2.03	0.40
45:BM:88:HIS:CE1	45:CM:280:LYS:NZ	2.88	0.40
45:CA:97:GLU:HG2	45:CA:105:ARG:HH22	1.87	0.40
46:CB:133:PHE:HD1	46:CB:155:VAL:HG11	1.87	0.40
46:CB:325:GLU:OE2	45:CC:221:ARG:NH2	2.54	0.40
45:CC:217:LEU:HB3	45:CC:219:ILE:HG13	2.03	0.40
45:CC:243:ARG:HG3	45:CC:244:PHE:CD2	2.56	0.40
45:CC:284:GLU:OE2	45:CC:286:LEU:HD23	2.21	0.40
45:CC:352:LYS:HD3	45:CC:353:VAL:H	1.86	0.40
46:CD:405:GLU:H	46:CD:405:GLU:CD	2.22	0.40
46:CF:287:PRO:HA	46:CF:329:GLN:HE22	1.86	0.40
46:CF:306:ARG:NH2	46:CF:340:TYR:OH	2.42	0.40
46:CH:139:LEU:HD12	46:CH:170:VAL:HG12	2.02	0.40
46:CH:325:GLU:OE1	46:CH:325:GLU:N	2.40	0.40
45:CI:36:MET:SD	45:CI:37:PRO:HD2	2.61	0.40
45:CI:85:GLN:N	45:CI:85:GLN:OE1	2.55	0.40
46:CJ:266:PHE:HE1	46:CJ:370:ASN:HB2	1.85	0.40
46:DD:99:ASN:HB2	46:DD:142:GLY:H	1.86	0.40
46:DD:178:THR:HG23	45:DC:258:ASN:HD21	1.87	0.40
46:DF:253:LEU:HD12	46:DF:257:LEU:CD1	2.52	0.40
46:DH:48:ASN:O	46:DH:62:ARG:NH1	2.54	0.40
45:DI:167:LEU:HG	45:DI:200:VAL:HB	2.04	0.40
45:DI:263:PRO:HD3	46:DJ:396:HIS:CE1	2.57	0.40
46:EB:331:LEU:O	46:EB:334:GLN:HG3	2.20	0.40
45:EC:234:VAL:O	45:EC:238:LEU:HD23	2.21	0.40
45:EC:255:PHE:HA	45:EC:259:LEU:HD23	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EE:223:THR:HG23	45:EE:225:THR:H	1.87	0.40
46:EF:207:LEU:HB3	46:EF:225:LEU:HD22	2.02	0.40
45:EG:9:VAL:HG12	45:EG:68:LEU:HB2	2.03	0.40
45:EG:174:SER:HB2	45:EG:177:VAL:O	2.21	0.40
45:EG:278:ALA:HA	45:EG:369:ALA:HB2	2.02	0.40
45:EI:224:TYR:HD1	45:EI:227:LEU:HD12	1.86	0.40
45:EK:359:PRO:HB2	45:EK:370:LYS:NZ	2.36	0.40
45:EM:20:CYS:CB	45:EM:235:ILE:HD11	2.50	0.40
45:EM:256:GLN:HG3	46:EN:397:TRP:NE1	2.32	0.40
46:FB:249:ASP:OD2	46:FB:252:LYS:N	2.47	0.40
46:FB:268:ILE:HA	46:FB:367:PHE:O	2.21	0.40
45:FC:137:VAL:HG23	45:FC:168:GLY:HA2	2.03	0.40
45:FC:212:ILE:HD11	45:FC:300:ASN:HA	2.01	0.40
46:FD:153:SER:O	46:FD:157:GLU:HG2	2.20	0.40
45:FG:256:GLN:HB2	46:FJ:397:TRP:CH2	2.55	0.40
45:FI:370:LYS:HE3	45:FI:370:LYS:HB3	1.89	0.40
45:FK:10:GLY:O	45:FK:14:ILE:HG12	2.21	0.40
45:GA:346:TRP:HA	46:GD:388:MET:SD	2.62	0.40
45:GC:287:SER:HB3	45:GC:290:GLU:OE1	2.20	0.40
46:GD:203:ASP:O	46:GD:207:LEU:HG	2.22	0.40
45:GE:296:PHE:HE2	45:GE:335:ILE:HG21	1.86	0.40
46:GH:12:CYS:O	46:GH:16:ILE:HG12	2.21	0.40
46:GJ:108:GLU:O	46:GJ:111:GLU:HG3	2.21	0.40
45:GK:3:GLU:HG2	45:GK:64:ARG:CZ	2.51	0.40
45:GK:45:GLY:O	45:GK:46:ASP:OD1	2.39	0.40
45:GK:342:GLN:N	45:GK:342:GLN:OE1	2.54	0.40
45:GK:387:VAL:O	45:GK:391:LEU:HG	2.21	0.40
46:GL:314:SER:HA	46:GL:350:LYS:O	2.21	0.40
45:GM:115:VAL:HG22	45:GM:119:LEU:HD23	2.03	0.40
46:GN:135:ILE:HB	46:GN:166:THR:HG22	2.02	0.40
46:GN:180:VAL:HG12	46:GN:180:VAL:O	2.21	0.40
45:HA:329:ASN:OD1	46:HD:175:VAL:HG23	2.22	0.40
46:HB:19:LYS:O	46:HB:23:VAL:HG23	2.21	0.40
46:HB:44:LEU:HA	46:HB:47:ILE:HG23	2.03	0.40
45:HC:222:PRO:O	46:HD:322:SER:HB2	2.22	0.40
46:HD:20:PHE:HZ	46:HD:50:TYR:HE1	1.68	0.40
46:HD:113:ILE:HA	46:HD:116:VAL:HG12	2.02	0.40
46:HF:237:THR:HG23	46:HF:241:ARG:HE	1.85	0.40
46:HF:372:THR:HA	46:HF:422:TYR:HE1	1.86	0.40
45:HG:414:GLU:CD	45:HG:416:GLY:H	2.24	0.40
45:HG:419:SER:O	45:HG:423:GLU:OE1	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HH:232:ALA:HB1	46:HH:268:ILE:HD12	2.03	0.40
45:HK:338:LYS:NZ	45:HK:341:ILE:HD12	2.36	0.40
46:ID:7:ILE:HD12	46:ID:64:ILE:O	2.21	0.40
46:ID:372:THR:O	46:ID:375:GLN:HG2	2.21	0.40
45:IE:5:ILE:HB	45:IE:135:PHE:HD2	1.87	0.40
46:IF:342:VAL:HG13	46:IF:345:ILE:HG22	2.03	0.40
45:IG:8:HIS:HB3	45:IG:14:ILE:HD13	2.03	0.40
45:IG:384:ILE:O	45:IG:387:VAL:HG22	2.21	0.40
46:IJ:201:VAL:O	46:IJ:202:ILE:HD13	2.21	0.40
46:IL:73:MET:HE1	46:IL:92:PHE:HB3	2.04	0.40
45:IM:205:ASP:HB2	45:IM:304:LYS:HZ3	1.86	0.40
46:JD:67:ASP:OD1	46:JD:68:LEU:N	2.51	0.40
46:JF:39:ASP:OD1	46:JF:40:SER:N	2.50	0.40
46:JH:306:ARG:HG2	46:JH:340:TYR:CE1	2.56	0.40
45:JI:123:ARG:HD2	45:JI:161:TYR:OH	2.21	0.40
45:JI:189:LEU:O	45:JI:192:HIS:HB3	2.22	0.40
45:JK:25:CYS:O	45:JK:30:ILE:N	2.49	0.40
46:JL:178:THR:HG22	46:JL:180:VAL:H	1.86	0.40
46:JL:330:MET:O	46:JL:333:VAL:HG12	2.21	0.40
45:JM:121:ARG:HH21	45:JM:124:LYS:CD	2.34	0.40
45:JM:430:LYS:HA	45:JM:433:GLU:HG2	2.03	0.40
45:KA:67:PHE:HB2	45:KA:92:LEU:HG	2.04	0.40
45:KC:75:ILE:HG21	45:KC:94:SER:HB3	2.03	0.40
45:KC:417:GLU:O	45:KC:420:GLU:HG3	2.22	0.40
46:KF:376:GLU:H	46:KF:376:GLU:HG2	1.74	0.40
46:KH:2:ARG:HE	46:KH:240:LEU:HD22	1.86	0.40
46:KH:5:VAL:HG12	46:KH:62:ARG:HD3	2.04	0.40
45:KI:407:TRP:HZ3	46:KJ:255:VAL:HA	1.81	0.40
46:KL:101:TRP:CE3	46:KL:187:LEU:HD23	2.56	0.40
46:KL:409:THR:O	46:KL:412:GLU:HG3	2.20	0.40
45:KM:97:GLU:HA	45:KM:97:GLU:OE2	2.21	0.40
46:KN:324:LYS:O	46:KN:328:GLU:OE1	2.39	0.40
45:LA:227:LEU:O	45:LA:231:ILE:HG12	2.21	0.40
45:LA:330:ALA:O	45:LA:334:THR:HG23	2.21	0.40
46:LD:383:GLU:HA	46:LD:386:THR:HG22	2.03	0.40
46:LF:242:PHE:HB2	46:LF:354:CYS:SG	2.61	0.40
45:LI:229:ARG:NH1	45:LI:366:GLY:HA2	2.37	0.40
46:LJ:69:GLU:HA	46:LJ:69:GLU:OE1	2.21	0.40
45:LK:304:LYS:HE2	45:LK:304:LYS:HA	2.03	0.40
45:LM:172:TYR:CD2	45:LM:173:PRO:HD2	2.57	0.40
46:LN:173:PRO:HB3	46:LN:384:GLN:HE22	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MB:88:ASP:OD1	46:MB:89:ASN:N	2.54	0.40
45:MC:392:ASP:OD1	45:MC:422:ARG:NH1	2.54	0.40
46:MD:116:VAL:HA	46:MD:119:VAL:HG12	2.03	0.40
46:MD:394:PHE:HA	46:MD:397:TRP:HZ3	1.86	0.40
46:MH:215:LEU:HD11	46:MH:273:LEU:HD12	2.03	0.40
46:MH:238:CYS:SG	46:MH:239:CYS:N	2.95	0.40
45:MK:223:THR:HG23	45:MK:225:THR:H	1.85	0.40
46:MN:257:LEU:HD12	46:MN:312:THR:HG23	2.03	0.40
45:NA:29:GLY:O	45:NA:40:LYS:NZ	2.52	0.40
45:NA:89:PRO:HD2	45:OA:280:LYS:HZ2	1.85	0.40
45:NA:258:ASN:OD1	45:NA:259:LEU:HG	2.21	0.40
46:NH:163:ILE:HA	46:NH:197:ASP:OD2	2.22	0.40
45:NI:253:THR:HA	45:NI:256:GLN:NE2	2.36	0.40
45:NM:50:ASN:OD1	45:NM:51:THR:N	2.54	0.40
45:NM:367:ASP:OD1	45:NM:368:LEU:N	2.54	0.40
46:NN:103:LYS:HA	46:NN:107:THR:OG1	2.21	0.40
45:OA:112:LYS:HA	45:OA:115:VAL:HG12	2.02	0.40
45:OA:177:VAL:HG13	46:OB:327:ASP:HB3	2.02	0.40
45:OA:209:ILE:HD12	45:OA:209:ILE:HA	1.95	0.40
45:OA:296:PHE:CE2	45:OA:335:ILE:HG21	2.56	0.40
45:OC:211:ASP:HB2	45:OC:304:LYS:HZ1	1.87	0.40
45:OC:271:SER:HG	45:OC:301:MET:HA	1.86	0.40
46:OF:188:SER:O	46:OF:192:LEU:HD23	2.22	0.40
45:OG:141:VAL:HG12	45:OG:171:ILE:O	2.20	0.40
45:OG:191:THR:HG21	45:OG:425:LEU:HD11	2.02	0.40
45:OG:224:TYR:CE2	47:OG:501:GTP:C5	3.09	0.40
46:OH:190:HIS:ND1	46:OH:411:ALA:HA	2.36	0.40
45:OI:71:GLU:HA	45:OI:72:PRO:HD3	1.86	0.40
45:OK:288:VAL:HG21	45:OK:323:VAL:HG13	2.04	0.40
45:OK:406:HIS:CE1	45:OK:407:TRP:CD1	3.09	0.40
46:ON:395:LEU:HD23	46:ON:395:LEU:HA	1.89	0.40
45:PE:118:CYS:SG	45:PE:153:LEU:HD11	2.61	0.40
45:PE:145:THR:HG22	47:PE:501:GTP:PG	2.61	0.40
45:PG:265:ILE:HD11	45:PG:435:VAL:HG21	2.03	0.40
46:PL:174:LYS:HE2	46:PL:174:LYS:HB2	1.90	0.40
45:QA:244:PHE:HB2	45:QA:356:ASN:HD21	1.86	0.40
45:QC:319:TYR:CE1	45:QC:328:VAL:HG22	2.56	0.40
45:QI:265:ILE:HG12	45:QI:432:TYR:CE2	2.55	0.40
46:QJ:318:ARG:HH11	46:QJ:358:PRO:HG3	1.85	0.40
45:QK:60:LYS:NZ	45:QK:86:LEU:HA	2.36	0.40
46:QL:51:TYR:HB3	46:QL:59:TYR:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QL:380:ARG:HA	46:QL:383:GLU:OE1	2.21	0.40
45:QM:88:HIS:HB3	45:QM:91:GLN:CG	2.52	0.40
46:QN:54:ALA:HB3	46:QN:58:ARG:HG2	2.04	0.40
45:RA:226:ASN:O	45:RA:230:LEU:HD23	2.21	0.40
45:RA:319:TYR:CD2	45:RA:323:VAL:HG21	2.56	0.40
45:RC:211:ASP:O	45:RC:215:ARG:HG2	2.21	0.40
45:RE:93:ILE:HG22	45:RE:114:ILE:HD11	2.02	0.40
46:RF:145:SER:HB2	46:RF:188:SER:HB3	2.03	0.40
46:RF:375:GLN:HE22	46:RF:423:GLN:HB3	1.86	0.40
45:RG:174:SER:HB2	45:RG:177:VAL:O	2.21	0.40
46:SD:156:ARG:NH1	46:SD:197:ASP:OD2	2.53	0.40
46:SD:345:ILE:HD12	45:SE:398:MET:CE	2.51	0.40
45:SE:331:SER:O	45:SE:335:ILE:HG12	2.22	0.40
45:SG:210:TYR:O	45:SG:214:ARG:HG2	2.20	0.40
45:SG:287:SER:O	45:SG:291:ILE:HG23	2.20	0.40
45:SG:377:MET:O	45:SG:378:ILE:HD13	2.21	0.40
46:SH:25:SER:OG	46:SH:51:TYR:OH	2.35	0.40
46:SH:31:ASP:OD2	46:SH:33:THR:OG1	2.39	0.40
46:SH:248:SER:HA	46:SH:252:LYS:HD3	2.02	0.40
46:SH:327:ASP:OD2	46:SH:327:ASP:N	2.55	0.40
45:SI:2:ARG:NE	45:SI:242:LEU:O	2.51	0.40
46:SJ:1:MET:SD	46:SJ:2:ARG:HG2	2.61	0.40
46:SJ:132:GLY:HA3	46:SJ:163:ILE:HG13	2.03	0.40
45:SK:220:GLU:OE1	45:SK:220:GLU:N	2.54	0.40
45:SK:317:MET:SD	45:SK:317:MET:N	2.94	0.40
46:SL:178:THR:HG22	46:SL:180:VAL:H	1.86	0.40
46:SL:252:LYS:HA	45:SM:100:ALA:HB1	2.04	0.40
46:SN:3:GLU:HG3	46:SN:62:ARG:HH12	1.86	0.40
45:TA:188:ILE:HD11	45:TA:391:LEU:HB3	2.02	0.40
46:TB:299:MET:HG3	46:TB:301:CYS:H	1.87	0.40
45:TE:3:GLU:OE2	45:TE:130:THR:N	2.54	0.40
45:TE:331:SER:O	45:TE:335:ILE:HG12	2.21	0.40
46:TF:138:SER:HA	46:TF:169:VAL:HB	2.03	0.40
46:TF:268:ILE:HG13	46:TF:300:MET:CG	2.46	0.40
45:TG:326:LYS:HG3	45:TG:327:ASP:N	2.37	0.40
45:TG:377:MET:HE2	45:TG:379:SER:HB3	2.03	0.40
46:TH:45:GLU:HG2	46:TH:46:ARG:HG2	2.02	0.40
45:TI:10:GLY:O	45:TI:14:ILE:HG12	2.20	0.40
46:TJ:233:MET:O	46:TJ:236:VAL:HG12	2.21	0.40
46:TL:11:GLN:O	46:TL:15:GLN:HG2	2.21	0.40
46:TL:97:ALA:HA	46:TL:103:LYS:HZ2	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UA:194:LEU:HB2	45:UA:198:THR:OG1	2.21	0.40
46:UB:114:ASP:O	46:UB:117:LEU:HG	2.22	0.40
45:UC:174:SER:HB3	45:UC:207:GLU:HG2	2.03	0.40
46:UF:22:GLU:HG2	46:UF:81:PHE:CD1	2.56	0.40
45:UG:363:VAL:HG23	45:UG:366:GLY:HA3	2.03	0.40
45:UG:414:GLU:CD	45:UG:416:GLY:H	2.24	0.40
46:UH:114:ASP:O	46:UH:117:LEU:HG	2.22	0.40
46:UJ:20:PHE:O	46:UJ:24:ILE:HG12	2.20	0.40
46:UJ:68:LEU:HD23	46:UJ:147:MET:HE3	2.03	0.40
46:UJ:322:SER:HB2	45:UK:222:PRO:O	2.21	0.40
45:UK:2:ARG:HH22	46:UL:70:PRO:CD	2.31	0.40
46:UL:242:PHE:HA	46:UL:243:PRO:HD3	1.95	0.40
46:UN:24:ILE:HG21	46:UN:50:TYR:HD2	1.85	0.40
46:VD:318:ARG:O	46:VD:363:MET:HA	2.21	0.40
45:VE:195:LEU:HD12	45:VE:266:HIS:HE2	1.87	0.40
45:VE:330:ALA:O	45:VE:334:THR:HG23	2.21	0.40
46:VF:119:VAL:O	46:VF:122:LYS:HG2	2.20	0.40
46:VF:181:GLU:HB2	46:VF:182:PRO:HD3	2.04	0.40
45:VG:88:HIS:CE1	45:VG:90:GLU:HG3	2.56	0.40
46:VH:200:MET:HG2	46:VH:268:ILE:CG2	2.52	0.40
46:VH:318:ARG:HH11	46:VH:358:PRO:HG3	1.86	0.40
45:VK:31:GLN:HB2	45:VK:33:ASP:OD1	2.21	0.40
45:VK:46:ASP:OD1	45:VK:47:ASP:N	2.53	0.40
45:VK:224:TYR:HE2	46:VL:246:LEU:HD11	1.86	0.40
45:VK:239:THR:HG23	45:VK:243:ARG:HE	1.87	0.40
45:VK:434:GLU:O	45:VK:437:ILE:HG12	2.21	0.40
46:VN:389:PHE:CZ	46:VN:405:GLU:HG2	2.56	0.40
46:WB:48:ASN:N	46:WB:48:ASN:OD1	2.54	0.40
46:WB:101:TRP:CE3	46:WB:187:LEU:HD13	2.56	0.40
45:WC:153:LEU:HD13	45:WC:153:LEU:HA	1.89	0.40
45:WC:207:GLU:O	45:WC:210:TYR:HB2	2.21	0.40
45:WC:297:GLU:OE2	45:WC:300:ASN:N	2.54	0.40
46:WJ:24:ILE:HG21	46:WJ:50:TYR:HD2	1.86	0.40
46:WJ:284:LEU:HD23	46:WJ:284:LEU:H	1.87	0.40
46:WL:44:LEU:HD22	46:WL:47:ILE:HD13	2.04	0.40
46:WL:210:ILE:HD11	46:WL:299:MET:O	2.21	0.40
46:WN:130:LEU:HD21	46:WN:133:PHE:CZ	2.56	0.40
1:0A:34:LEU:HD13	46:MB:40:SER:HB3	2.02	0.40
6:0F:75:ARG:HG2	46:ED:359:LYS:NZ	2.36	0.40
3:1C:122:ARG:HD2	45:DM:229:ARG:HH21	1.84	0.40
8:1H:139:ARG:CZ	45:HI:370:LYS:O	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1J:79:LYS:HA	45:HC:57:GLY:HA3	2.03	0.40
25:1R:87:LEU:HA	45:MC:85:GLN:HE22	1.86	0.40
4:2D:75:ASP:HB3	46:EJ:362:LYS:HE3	2.03	0.40
4:2D:84:SER:HA	46:EJ:320:ARG:NH2	2.33	0.40
24:2P:439:HIS:CD2	45:TK:282:TYR:CE2	3.10	0.40
34:4R:33:LEU:H	45:LC:1:MET:CE	2.30	0.40
36:5C:59:TYR:OH	46:KJ:405:GLU:OE2	2.22	0.40
36:5D:94:MET:H	45:KM:430:LYS:HZ1	1.67	0.40
37:5F:165:PRO:HD2	37:5F:166:ARG:NH1	2.36	0.40
37:5F:197:LEU:HB2	45:LG:393:HIS:ND1	2.35	0.40
35:5S:187:LEU:HB2	35:5S:240:MET:HG2	2.02	0.40
35:5S:189:VAL:HG13	35:5S:190:MET:HG3	2.03	0.40
41:6H:346:LYS:HA	41:6H:346:LYS:HD3	1.84	0.40
34:7R:12:LEU:H	34:7R:15:HIS:HB2	1.87	0.40
34:7R:169:ILE:HD12	34:7R:169:ILE:HA	1.89	0.40
34:7R:457:GLU:HB2	34:7R:470:PHE:HB2	2.02	0.40
45:AA:297:GLU:OE1	45:AA:298:PRO:HD2	2.21	0.40
46:AB:315:ALA:HB1	46:AB:317:PHE:CE1	2.56	0.40
45:AC:317:MET:SD	45:AC:332:ILE:HD11	2.61	0.40
46:AD:267:MET:HB3	46:AD:301:CYS:SG	2.62	0.40
46:AF:256:ASN:HD22	46:AF:350:LYS:CD	2.34	0.40
45:AG:222:PRO:HD2	46:AH:324:LYS:HB3	2.02	0.40
45:AG:389:SER:O	45:AG:393:HIS:ND1	2.55	0.40
45:AK:172:TYR:OH	45:AK:191:THR:HG22	2.20	0.40
45:AK:316:SER:HA	45:AK:352:LYS:O	2.21	0.40
46:AL:248:SER:HA	46:AL:252:LYS:HD2	2.03	0.40
46:AN:3:GLU:CD	46:AN:3:GLU:H	2.24	0.40
45:BA:256:GLN:HB3	46:BD:397:TRP:CH2	2.56	0.40
45:BA:319:TYR:CE1	45:BA:328:VAL:HG22	2.56	0.40
46:BD:103:LYS:HE2	46:BD:103:LYS:HB2	1.71	0.40
45:BE:69:ASP:OD1	45:BE:70:LEU:N	2.54	0.40
46:BF:86:ARG:NE	46:BF:87:PRO:HD2	2.36	0.40
45:BG:352:LYS:HD2	45:BG:353:VAL:N	2.37	0.40
46:BH:44:LEU:HD23	46:BH:44:LEU:HA	1.93	0.40
46:BH:293:MET:HE1	46:BH:365:VAL:HG11	2.02	0.40
45:BI:384:ILE:O	45:BI:387:VAL:HG22	2.21	0.40
45:BK:88:HIS:H	45:BK:91:GLN:NE2	2.19	0.40
45:BM:115:VAL:HG22	45:BM:119:LEU:HD23	2.04	0.40
45:BM:434:GLU:O	45:BM:437:ILE:HG12	2.22	0.40
46:BN:268:ILE:HG22	46:BN:368:VAL:HG23	2.03	0.40
46:CB:347:ASN:C	46:CB:347:ASN:HD22	2.24	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CD:395:LEU:HA	46:CD:398:TYR:HD1	1.86	0.40
46:CF:101:TRP:H	46:CF:398:TYR:HE1	1.68	0.40
45:CG:261:PRO:HA	46:CH:394:PHE:CD1	2.56	0.40
45:CG:433:GLU:OE1	45:CG:433:GLU:HA	2.22	0.40
45:CI:175:PRO:HG2	45:CI:304:LYS:HG2	2.02	0.40
46:CJ:347:ASN:C	46:CJ:347:ASN:HD22	2.24	0.40
45:CK:69:ASP:OD2	45:CK:75:ILE:HG12	2.21	0.40
45:CM:186:ASN:OD1	45:CM:187:SER:N	2.54	0.40
46:CN:86:ARG:NE	46:CN:87:PRO:HD2	2.22	0.40
46:CN:288:GLU:O	46:CN:291:GLN:HG3	2.21	0.40
46:DD:156:ARG:NH2	46:DD:195:ASN:O	2.55	0.40
46:DD:251:ARG:HH21	45:DE:105:ARG:HD2	1.85	0.40
45:DE:322:ASP:OD1	45:DE:373:ARG:NH1	2.50	0.40
45:DG:411:GLU:N	45:DG:411:GLU:OE1	2.54	0.40
46:DH:217:LEU:O	46:DH:220:PRO:HD3	2.21	0.40
46:DH:313:ALA:HB1	46:DH:367:PHE:CE1	2.56	0.40
45:DI:75:ILE:HD12	45:DI:75:ILE:H	1.86	0.40
46:DJ:113:ILE:HD11	46:DJ:151:LEU:HB2	2.04	0.40
45:DK:80:THR:HA	45:DK:84:ARG:HE	1.87	0.40
45:DK:333:ALA:O	45:DK:337:THR:HG23	2.21	0.40
46:DL:9:GLY:HA3	46:DL:66:MET:SD	2.61	0.40
46:DL:19:LYS:NZ	46:DL:227:HIS:HA	2.35	0.40
46:DL:221:THR:O	46:DL:225:LEU:HG	2.22	0.40
45:DM:88:HIS:CE1	45:DM:90:GLU:HG3	2.55	0.40
45:EC:82:THR:HG23	45:EC:83:TYR:HD1	1.86	0.40
45:EE:151:SER:O	45:EE:155:GLU:HG2	2.22	0.40
45:EE:347:CYS:HA	46:EF:388:MET:HE1	2.03	0.40
46:EF:173:PRO:HG2	46:EF:380:ARG:NE	2.36	0.40
46:EF:200:MET:HG2	46:EF:266:PHE:HB2	2.02	0.40
45:EG:56:THR:HG23	45:EG:58:ALA:H	1.86	0.40
46:EH:151:LEU:O	46:EH:155:VAL:HG13	2.21	0.40
45:EI:14:ILE:HD12	45:EI:67:PHE:CD1	2.55	0.40
45:EI:333:ALA:O	45:EI:337:THR:HG23	2.21	0.40
46:EJ:155:VAL:HA	46:EJ:158:GLU:HG2	2.03	0.40
46:EJ:242:PHE:HA	46:EJ:243:PRO:HD3	1.96	0.40
46:EJ:255:VAL:HG11	45:EK:100:ALA:O	2.21	0.40
46:EL:178:THR:HG22	46:EL:180:VAL:H	1.86	0.40
45:EM:141:VAL:HG11	45:EM:172:TYR:HA	2.03	0.40
45:EM:419:SER:O	45:EM:422:ARG:N	2.53	0.40
45:EM:424:ASP:O	45:EM:428:LEU:HD23	2.21	0.40
46:EN:52:ASN:ND2	46:EN:62:ARG:HG2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FA:175:PRO:HG3	45:FA:390:ARG:CZ	2.51	0.40
46:FB:173:PRO:HG2	46:FB:380:ARG:HD3	2.04	0.40
45:FC:231:ILE:O	45:FC:235:ILE:HG12	2.21	0.40
45:FE:37:PRO:O	45:FE:39:ASP:N	2.54	0.40
45:FG:259:LEU:HB3	45:FG:268:MET:CE	2.51	0.40
46:FH:101:TRP:HD1	46:FH:145:SER:OG	2.04	0.40
45:FI:287:SER:O	45:FI:291:ILE:HG23	2.22	0.40
45:FI:371:VAL:HG12	45:FI:373:ARG:H	1.86	0.40
46:FJ:287:PRO:HA	46:FJ:290:THR:HG22	2.03	0.40
45:FK:221:ARG:HH21	46:FL:325:GLU:HG2	1.86	0.40
46:FL:4:ILE:HD11	46:FL:50:TYR:OH	2.22	0.40
46:FL:36:TYR:O	46:FL:37:HIS:ND1	2.49	0.40
46:FL:372:THR:HA	46:FL:422:TYR:CE1	2.46	0.40
46:FL:404:ASP:OD1	46:FL:406:MET:HB2	2.21	0.40
46:GB:287:PRO:HA	46:GB:290:THR:HG22	2.03	0.40
46:GD:6:HIS:O	46:GD:63:ALA:HA	2.21	0.40
45:GE:17:GLY:HA2	45:GE:20:CYS:SG	2.61	0.40
46:GF:201:VAL:HG22	46:GF:266:PHE:O	2.22	0.40
46:GH:201:VAL:HG22	46:GH:266:PHE:O	2.21	0.40
45:GI:265:ILE:HG23	45:GI:432:TYR:OH	2.21	0.40
45:GK:71:GLU:OE2	45:GK:98:ASP:N	2.55	0.40
46:GL:289:LEU:HD23	46:GL:289:LEU:HA	1.77	0.40
45:HA:55:GLU:HG3	45:HA:57:GLY:H	1.87	0.40
45:HA:288:VAL:HA	45:HA:291:ILE:HG12	2.02	0.40
45:HA:342:GLN:N	45:HA:342:GLN:OE1	2.55	0.40
46:HB:52:ASN:OD1	46:HB:53:GLU:N	2.55	0.40
46:HB:91:VAL:HG21	46:HB:116:VAL:HB	2.03	0.40
46:HB:214:THR:HG23	46:HB:215:LEU:HD22	2.02	0.40
45:HE:178:SER:HB2	45:HE:183:GLU:OE1	2.21	0.40
45:HG:223:THR:HG23	45:HG:225:THR:H	1.87	0.40
46:HH:48:ASN:O	46:HH:62:ARG:NH1	2.53	0.40
46:HJ:21:TRP:CZ2	46:HJ:63:ALA:HB2	2.56	0.40
46:HJ:260:PHE:HB2	46:HJ:263:LEU:HD13	2.02	0.40
45:HM:108:TYR:HA	45:HM:112:LYS:HE2	2.03	0.40
46:HN:20:PHE:O	46:HN:24:ILE:HG12	2.21	0.40
46:HN:329:GLN:O	46:HN:333:VAL:HG23	2.21	0.40
45:IA:174:SER:HB3	45:IA:207:GLU:OE1	2.20	0.40
45:IA:430:LYS:O	45:IA:433:GLU:HG2	2.21	0.40
46:IB:44:LEU:HD23	46:IB:44:LEU:HA	1.93	0.40
45:IC:210:TYR:HE1	45:IC:227:LEU:HD21	1.87	0.40
46:ID:375:GLN:OE1	46:ID:423:GLN:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IG:102:ASN:ND2	45:IG:407:TRP:O	2.51	0.40
46:IH:383:GLU:HA	46:IH:383:GLU:OE2	2.21	0.40
46:IN:3:GLU:OE2	46:IN:127:CYS:HB2	2.22	0.40
45:JA:1:MET:O	45:JA:131:GLY:HA3	2.21	0.40
45:JC:19:ALA:HA	45:JC:22:GLU:HG2	2.03	0.40
46:JH:321:MET:SD	46:JH:321:MET:N	2.95	0.40
46:JH:391:ARG:HA	46:JH:391:ARG:HD2	1.86	0.40
45:JI:254:GLU:O	45:JI:255:PHE:HD2	2.04	0.40
45:JK:215:ARG:NH2	45:JK:299:ALA:O	2.53	0.40
45:JM:73:THR:O	45:JM:77:GLU:HB2	2.21	0.40
45:KA:71:GLU:HA	45:KA:72:PRO:HD3	1.89	0.40
46:KB:12:CYS:O	46:KB:16:ILE:HG12	2.21	0.40
46:KB:238:CYS:CB	46:KB:318:ARG:HD3	2.51	0.40
45:KC:55:GLU:OE1	45:KC:61:HIS:NE2	2.54	0.40
45:KC:208:ALA:O	45:KC:212:ILE:HG12	2.21	0.40
45:KG:213:CYS:SG	45:KG:222:PRO:HG3	2.61	0.40
45:KG:243:ARG:HG3	45:KG:244:PHE:CE2	2.57	0.40
46:KH:295:ASP:OD2	46:KH:297:LYS:HG2	2.21	0.40
46:KJ:3:GLU:OE1	46:KJ:128:ASP:N	2.54	0.40
46:KL:113:ILE:HA	46:KL:116:VAL:HG12	2.04	0.40
45:KM:174:SER:HB3	45:KM:177:VAL:O	2.21	0.40
45:KM:211:ASP:O	45:KM:214:ARG:HG3	2.22	0.40
45:KM:265:ILE:HG22	45:KM:432:TYR:CE1	2.55	0.40
45:LA:174:SER:HB2	45:LA:177:VAL:O	2.21	0.40
45:LA:178:SER:HB2	46:LB:347:ASN:ND2	2.36	0.40
45:LA:395:PHE:CD2	45:LA:422:ARG:HD3	2.56	0.40
45:LC:75:ILE:O	45:LC:79:ARG:HG2	2.22	0.40
45:LC:298:PRO:HA	45:LC:301:MET:HG2	2.03	0.40
45:LE:326:LYS:HD3	46:LH:212:PHE:HZ	1.87	0.40
46:LF:229:VAL:O	46:LF:233:MET:HG3	2.21	0.40
45:LG:2:ARG:HH22	46:LJ:71:GLY:CA	2.33	0.40
45:LG:217:LEU:HD12	45:LG:367:ASP:HB3	2.04	0.40
45:LG:430:LYS:O	45:LG:433:GLU:HG3	2.21	0.40
46:LH:171:PRO:HB2	46:LH:181:GLU:OE1	2.21	0.40
45:LI:21:TRP:CH2	45:LI:63:PRO:HB3	2.57	0.40
45:LI:68:LEU:HD11	45:LI:118:CYS:SG	2.61	0.40
45:LI:108:TYR:CD2	45:LI:413:MET:HB2	2.56	0.40
46:LJ:73:MET:HA	46:LJ:76:VAL:HG12	2.03	0.40
46:LJ:174:LYS:HE2	46:LJ:174:LYS:HB2	1.92	0.40
46:LN:69:GLU:HA	46:LN:70:PRO:HD3	1.86	0.40
46:LN:318:ARG:HH11	46:LN:318:ARG:HG2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MF:8:GLN:HE21	46:MF:65:LEU:CD1	2.34	0.40
46:MH:3:GLU:HG3	46:MH:49:VAL:HA	2.03	0.40
46:MH:183:TYR:HB3	46:MH:398:TYR:HE2	1.87	0.40
45:MI:102:ASN:HD22	45:MI:105:ARG:HG3	1.87	0.40
45:MI:105:ARG:NH1	46:MJ:251:ARG:HD3	2.36	0.40
45:MI:178:SER:HB2	45:MI:183:GLU:OE1	2.20	0.40
45:MI:289:ALA:O	45:MI:292:THR:HG22	2.21	0.40
46:MJ:11:GLN:NE2	49:MJ:501:GDP:O1A	2.55	0.40
46:MJ:12:CYS:O	46:MJ:16:ILE:HG12	2.21	0.40
46:MJ:238:CYS:SG	46:MJ:318:ARG:HD2	2.62	0.40
45:MK:222:PRO:HD2	46:ML:324:LYS:HD3	2.03	0.40
45:MM:191:THR:HA	45:MM:194:LEU:HG	2.02	0.40
45:MM:434:GLU:O	45:MM:437:ILE:HG22	2.21	0.40
46:MN:221:THR:HG23	46:MN:224:ASP:H	1.86	0.40
45:NA:132:LEU:HD22	45:NA:164:LYS:HE2	2.03	0.40
45:NA:185:TYR:O	45:NA:189:LEU:HG	2.22	0.40
45:NA:316:SER:CB	45:NA:352:LYS:HB3	2.50	0.40
46:NF:3:GLU:HB2	46:NF:62:ARG:NH2	2.36	0.40
45:NG:151:SER:O	45:NG:155:GLU:HG2	2.21	0.40
45:NG:288:VAL:HA	45:NG:291:ILE:HG12	2.03	0.40
46:NH:268:ILE:HG22	46:NH:368:VAL:HG22	2.04	0.40
45:NI:88:HIS:ND1	45:NI:90:GLU:HG2	2.35	0.40
45:NK:8:HIS:CD2	45:NK:138:PHE:HD2	2.39	0.40
45:NK:178:SER:HB3	46:NL:347:ASN:ND2	2.36	0.40
45:NK:180:ALA:HA	46:NL:350:LYS:HZ3	1.84	0.40
45:NK:262:TYR:OH	46:NN:391:ARG:O	2.27	0.40
45:NK:407:TRP:CZ3	46:NL:255:VAL:HA	2.56	0.40
45:NK:417:GLU:OE1	45:NK:417:GLU:N	2.50	0.40
46:NL:314:SER:OG	46:NL:368:VAL:HB	2.20	0.40
45:NM:317:MET:HE3	45:NM:377:MET:SD	2.61	0.40
46:NN:64:ILE:HG13	46:NN:89:ASN:ND2	2.36	0.40
46:NN:310:TYR:CD2	46:NN:371:SER:HB2	2.57	0.40
45:OA:387:VAL:O	45:OA:391:LEU:HD23	2.22	0.40
46:OD:217:LEU:HD23	46:OD:219:THR:H	1.85	0.40
46:OF:265:PHE:HE2	46:OF:418:LEU:HD21	1.86	0.40
46:OF:392:LYS:HA	46:OF:395:LEU:HD12	2.04	0.40
45:OI:10:GLY:O	45:OI:14:ILE:HG12	2.20	0.40
45:OI:222:PRO:HG2	46:OJ:324:LYS:CD	2.51	0.40
46:OJ:257:LEU:HD21	46:OJ:314:SER:HB3	2.03	0.40
45:OK:3:GLU:HG3	45:OK:129:CYS:SG	2.62	0.40
46:OL:20:PHE:O	46:OL:24:ILE:HG12	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OL:35:THR:HG21	46:OL:37:HIS:HE1	1.86	0.40
46:OL:257:LEU:O	46:OL:259:PRO:HD3	2.21	0.40
45:PA:331:SER:O	45:PA:335:ILE:HG12	2.20	0.40
45:PC:224:TYR:HA	45:PC:227:LEU:HD13	2.03	0.40
45:PG:167:LEU:HG	45:PG:200:VAL:HB	2.04	0.40
46:PH:69:GLU:HA	46:PH:69:GLU:OE2	2.21	0.40
46:PJ:174:LYS:NZ	46:PJ:380:ARG:HH11	2.19	0.40
46:PL:153:SER:HA	46:PL:195:ASN:ND2	2.35	0.40
46:PL:361:LEU:HD23	46:PL:361:LEU:HA	1.93	0.40
46:PL:396:HIS:CE1	46:PL:397:TRP:CD1	3.09	0.40
45:QA:135:PHE:HB2	45:QA:166:LYS:HG2	2.02	0.40
45:QC:105:ARG:O	45:QC:110:ILE:HG12	2.21	0.40
46:QD:345:ILE:HG23	46:QD:345:ILE:O	2.21	0.40
45:QG:75:ILE:H	45:QG:75:ILE:HD12	1.85	0.40
45:QG:342:GLN:N	45:QG:342:GLN:OE1	2.55	0.40
46:QH:153:SER:O	46:QH:157:GLU:OE1	2.39	0.40
45:QI:27:GLU:OE2	45:QI:28:HIS:CE1	2.75	0.40
45:QI:439:THR:HB	46:QJ:390:ARG:NH1	2.37	0.40
45:QK:47:ASP:HB3	45:QK:48:ALA:H	1.71	0.40
45:QK:124:LYS:HE2	45:QK:124:LYS:HB2	1.73	0.40
45:QK:244:PHE:HB2	45:QK:356:ASN:ND2	2.35	0.40
46:QL:6:HIS:O	46:QL:63:ALA:HA	2.21	0.40
46:QL:251:ARG:HH12	45:QM:105:ARG:HD2	1.85	0.40
45:QM:88:HIS:ND1	45:RM:280:LYS:HE3	2.36	0.40
45:QM:326:LYS:HE2	46:QN:220:PRO:HD2	2.02	0.40
46:QN:198:GLU:HG2	46:QN:266:PHE:HE2	1.86	0.40
45:RA:141:VAL:HG22	45:RA:187:SER:HA	2.03	0.40
46:RD:116:VAL:HA	46:RD:119:VAL:HG12	2.02	0.40
46:RF:258:ILE:CG1	45:RG:407:TRP:HZ2	2.34	0.40
46:RF:289:LEU:HA	46:RF:289:LEU:HD23	1.86	0.40
45:RG:91:GLN:HB2	45:RG:121:ARG:NH2	2.36	0.40
46:RL:379:LYS:CE	46:RL:419:VAL:HG11	2.51	0.40
45:RM:209:ILE:HG12	45:RM:302:MET:HG3	2.02	0.40
46:RN:102:ALA:HB1	46:RN:401:GLU:HB2	2.03	0.40
46:SB:169:VAL:HG22	46:SB:202:ILE:HB	2.03	0.40
45:SC:22:GLU:HG2	45:SC:23:LEU:N	2.37	0.40
45:SE:229:ARG:NH1	45:SE:368:LEU:HB2	2.36	0.40
46:SF:32:PRO:HA	46:SF:84:LEU:HD11	2.02	0.40
46:SH:91:VAL:HG21	46:SH:116:VAL:HB	2.04	0.40
46:SH:317:PHE:HB3	46:SH:321:MET:HE1	2.03	0.40
45:SI:239:THR:HG23	45:SI:243:ARG:HE	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SI:329:ASN:HB3	46:SJ:175:VAL:HG12	2.02	0.40
45:SK:212:ILE:HD11	45:SK:300:ASN:HA	2.03	0.40
45:SK:234:VAL:O	45:SK:238:LEU:HD23	2.21	0.40
46:SL:390:ARG:HA	46:SL:390:ARG:NE	2.36	0.40
45:TA:260:VAL:HG13	45:TA:265:ILE:O	2.21	0.40
46:TF:153:SER:HB2	46:TF:191:GLN:NE2	2.36	0.40
45:TG:261:PRO:HB3	45:TG:346:TRP:HH2	1.87	0.40
46:TH:293:MET:CE	46:TH:367:PHE:HB3	2.51	0.40
45:TI:88:HIS:CE1	45:UI:280:LYS:NZ	2.90	0.40
45:TK:262:TYR:HB2	45:TK:265:ILE:HG22	2.04	0.40
45:TK:328:VAL:O	45:TK:332:ILE:HG12	2.22	0.40
45:TM:326:LYS:HD2	46:TN:220:PRO:HD2	2.04	0.40
46:UD:226:ASN:HA	46:UD:229:VAL:HG22	2.04	0.40
45:UE:332:ILE:HD11	45:UE:351:PHE:CG	2.57	0.40
46:UF:141:GLY:HA3	49:UF:501:GDP:O3A	2.21	0.40
46:UH:175:VAL:O	46:UH:175:VAL:HG23	2.22	0.40
45:UI:55:GLU:HG3	45:UI:57:GLY:H	1.86	0.40
45:UI:387:VAL:O	45:UI:391:LEU:HD23	2.22	0.40
46:UL:139:LEU:HG	46:UL:188:SER:OG	2.21	0.40
46:UL:350:LYS:HG3	45:UM:179:THR:O	2.21	0.40
45:UM:19:ALA:HA	45:UM:22:GLU:OE1	2.21	0.40
45:VA:56:THR:HG23	45:VA:58:ALA:H	1.86	0.40
45:VA:223:THR:HG23	45:VA:225:THR:H	1.87	0.40
46:VB:116:VAL:O	46:VB:120:VAL:HG13	2.21	0.40
46:VB:303:ALA:HB2	46:VB:377:MET:SD	2.62	0.40
46:VB:324:LYS:O	46:VB:328:GLU:HG3	2.21	0.40
46:VD:8:GLN:OE1	46:VD:17:GLY:HA3	2.21	0.40
45:VE:8:HIS:ND1	45:VE:67:PHE:HE2	2.20	0.40
45:VE:200:VAL:HG13	45:VE:268:MET:CE	2.52	0.40
45:VE:270:SER:OG	45:VE:271:SER:N	2.53	0.40
46:VF:267:MET:HE2	46:VF:299:MET:HG2	2.04	0.40
45:VG:221:ARG:HH12	46:VH:324:LYS:HG2	1.83	0.40
46:VH:152:ILE:HD13	46:VH:152:ILE:HA	1.89	0.40
45:VI:1:MET:HB3	45:VI:2:ARG:HH12	1.86	0.40
45:VI:88:HIS:HB3	45:VI:91:GLN:HG2	2.04	0.40
45:VI:229:ARG:HH12	45:VI:363:VAL:HG21	1.87	0.40
45:VI:320:ARG:HB2	45:VI:358:GLN:O	2.22	0.40
45:VK:404:PHE:CD1	46:VL:259:PRO:HA	2.56	0.40
46:VL:86:ARG:HD3	46:VL:87:PRO:CD	2.52	0.40
46:VL:172:SER:HA	46:VL:173:PRO:HD3	1.90	0.40
46:VL:267:MET:HG3	46:VL:301:CYS:SG	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VM:14:ILE:HD11	45:VM:69:ASP:HB2	2.03	0.40
45:VM:331:SER:O	45:VM:335:ILE:HG12	2.21	0.40
46:VN:207:LEU:HD13	46:VN:207:LEU:HA	1.90	0.40
46:VN:287:PRO:HG3	46:VN:329:GLN:NE2	2.36	0.40
45:WA:76:ASP:HA	45:WA:79:ARG:HG2	2.03	0.40
45:WA:98:ASP:OD2	45:WA:99:ALA:N	2.55	0.40
45:WC:19:ALA:HA	45:WC:22:GLU:OE1	2.20	0.40
45:WE:174:SER:HA	45:WE:205:ASP:OD2	2.22	0.40
46:WF:207:LEU:CB	46:WF:225:LEU:HD22	2.51	0.40
45:WG:18:ASN:O	45:WG:22:GLU:OE1	2.40	0.40
45:WG:148:GLY:O	45:WG:152:LEU:HD23	2.21	0.40
45:WK:88:HIS:HB3	45:WK:91:GLN:HG2	2.04	0.40
46:WL:313:ALA:HB1	46:WL:367:PHE:HE1	1.86	0.40
45:WM:187:SER:O	45:WM:191:THR:HG23	2.21	0.40
45:WM:401:LYS:NZ	46:WN:344:TRP:HB2	2.36	0.40
45:DC:18:ASN:HD22	45:DC:18:ASN:HA	1.75	0.40
6:0F:19:TRP:HZ2	45:EE:282:TYR:CZ	2.39	0.40
1:1A:98:THR:HA	46:MF:26:ASP:OD1	2.22	0.40
17:1F:154:PHE:HD1	46:GL:118:ASP:HB3	1.87	0.40
7:1G:97:ASN:O	46:JB:359:LYS:NZ	2.52	0.40
20:1K:245:TRP:CH2	46:GB:279:GLN:HG2	2.56	0.40
21:1L:874:LYS:NZ	46:BD:55:THR:HA	2.37	0.40
21:1L:895:SER:HB2	45:CC:367:ASP:OD1	2.21	0.40
23:1O:278:ARG:NH2	45:UA:219:ILE:HG23	2.35	0.40
31:2I:86:ASP:OD2	45:GE:214:ARG:HG2	2.20	0.40
21:2L:643:ARG:HB3	46:CL:362:LYS:NZ	2.36	0.40
25:2R:299:LEU:HA	46:CH:78:ALA:O	2.22	0.40
26:2W:241:MET:CE	46:LN:280:GLN:HG3	2.52	0.40
15:2X:90:ARG:NH2	34:5R:49:ASN:OD1	2.54	0.40
16:3B:59:PHE:HZ	45:LG:85:GLN:HG3	1.84	0.40
12:3T:81:PRO:HB3	45:MK:412:GLY:HA3	2.04	0.40
14:3V:122:LYS:CE	46:LD:390:ARG:HH12	2.31	0.40
34:4R:331:PRO:O	34:4R:360:TYR:OH	2.40	0.40
35:4S:98:TYR:CZ	35:4S:131:GLY:HA2	2.57	0.40
36:5A:172:LEU:HD22	36:5A:175:LYS:HZ3	1.86	0.40
36:5B:23:LEU:O	36:5B:59:TYR:HA	2.21	0.40
40:6G:191:ASP:HA	40:6G:194:VAL:HG22	2.03	0.40
41:6H:289:LYS:HZ3	46:FH:276:ARG:HD2	1.85	0.40
34:6R:212:GLN:HE22	34:6R:216:LYS:HG3	1.87	0.40
34:7R:261:LEU:HD12	34:7R:272:ASN:O	2.22	0.40
34:7R:341:ARG:HB3	34:7R:341:ARG:NH1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AC:21:TRP:HZ2	45:AC:65:ALA:HB2	1.87	0.40
46:AD:301:CYS:HB3	46:AD:377:MET:CE	2.51	0.40
46:AD:318:ARG:HD2	46:AD:354:CYS:HB3	2.04	0.40
45:AE:386:GLU:O	45:AE:390:ARG:HG3	2.22	0.40
46:AF:49:VAL:HG12	46:AF:50:TYR:CD1	2.57	0.40
45:AG:417:GLU:N	45:AG:417:GLU:OE1	2.53	0.40
46:AL:8:GLN:OE1	46:AL:14:ASN:HA	2.22	0.40
45:AM:11:GLN:HB3	47:AM:501:GTP:O2A	2.22	0.40
45:AM:109:THR:HG21	45:AM:411:GLU:HB3	2.04	0.40
46:AN:21:TRP:HA	46:AN:24:ILE:HG22	2.03	0.40
46:AN:26:ASP:OD1	46:AN:359:LYS:NZ	2.51	0.40
46:AN:313:ALA:HB1	46:AN:367:PHE:HE1	1.85	0.40
45:BA:271:SER:HB2	45:BA:377:MET:HB3	2.03	0.40
46:BB:105:HIS:CE1	46:BB:150:LEU:HD12	2.57	0.40
46:BD:164:MET:CE	46:BD:196:ALA:HA	2.50	0.40
45:BE:224:TYR:CE1	47:BE:501:GTP:C6	3.10	0.40
45:BE:257:THR:HA	46:BH:397:TRP:CZ3	2.57	0.40
45:BG:237:SER:HA	45:BG:320:ARG:HH11	1.86	0.40
45:BI:156:ARG:HA	45:BI:156:ARG:HD3	1.81	0.40
45:BI:200:VAL:HG13	45:BI:268:MET:SD	2.62	0.40
45:BI:224:TYR:CD2	46:BJ:323:THR:HG21	2.56	0.40
45:BI:239:THR:HG23	45:BI:243:ARG:NH1	2.36	0.40
46:BJ:326:VAL:O	46:BJ:330:MET:HG2	2.21	0.40
45:BK:9:VAL:HG13	45:BK:139:ASN:HB3	2.03	0.40
45:BK:326:LYS:HE3	46:BN:220:PRO:CG	2.42	0.40
45:BK:342:GLN:OE1	45:BK:342:GLN:N	2.54	0.40
46:BL:289:LEU:HD23	46:BL:289:LEU:HA	1.88	0.40
45:CA:352:LYS:HD2	45:CA:352:LYS:HA	1.91	0.40
46:CB:139:LEU:HB3	46:CB:185:ALA:HA	2.04	0.40
45:CC:2:ARG:HG3	45:CC:133:GLN:NE2	2.36	0.40
45:CC:3:GLU:HB2	45:CC:129:CYS:SG	2.62	0.40
46:CD:164:MET:SD	46:CD:196:ALA:HA	2.62	0.40
46:CF:164:MET:O	46:CF:197:ASP:HB2	2.22	0.40
46:CF:179:VAL:HG23	45:CE:349:THR:O	2.22	0.40
45:CG:88:HIS:CD2	45:CG:90:GLU:HG3	2.56	0.40
46:CJ:137:HIS:HE2	46:CJ:168:SER:HG	1.62	0.40
46:DD:293:MET:HE1	46:DD:315:ALA:HB2	2.02	0.40
46:DD:386:THR:O	46:DD:390:ARG:HG2	2.22	0.40
45:DE:27:GLU:OE2	45:DE:236:SER:OG	2.29	0.40
45:DE:138:PHE:CE2	45:DE:169:PHE:HD1	2.40	0.40
45:DE:141:VAL:HG11	45:DE:172:TYR:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DG:239:THR:HG23	45:DG:243:ARG:HH21	1.87	0.40
46:DH:8:GLN:HE21	46:DH:65:LEU:CD2	2.34	0.40
46:DH:407:GLU:O	46:DH:410:GLU:HG2	2.22	0.40
46:DJ:134:GLN:HG3	46:DJ:165:GLU:HB3	2.04	0.40
46:DJ:252:LYS:HZ3	45:DK:101:ASN:N	2.19	0.40
46:DL:182:PRO:O	46:DL:186:THR:HG23	2.21	0.40
45:DM:124:LYS:HE2	45:DM:124:LYS:HB2	1.88	0.40
46:ED:105:HIS:CE1	46:ED:150:LEU:HD12	2.57	0.40
46:ED:233:MET:O	46:ED:236:VAL:HG12	2.21	0.40
46:ED:252:LYS:HA	45:EE:100:ALA:HB1	2.02	0.40
46:EH:224:ASP:O	46:EH:228:LEU:HD23	2.22	0.40
45:EI:212:ILE:CD1	45:EI:300:ASN:HA	2.51	0.40
45:EK:5:ILE:HB	45:EK:135:PHE:CD1	2.57	0.40
45:FA:136:LEU:HD21	45:FA:138:PHE:CZ	2.56	0.40
45:FG:102:ASN:OD1	45:FG:105:ARG:N	2.44	0.40
45:FI:272:TYR:CD1	45:FI:376:CYS:HB2	2.56	0.40
45:FI:434:GLU:O	45:FI:437:ILE:HG12	2.21	0.40
46:FJ:372:THR:HA	46:FJ:422:TYR:CE2	2.56	0.40
45:FK:188:ILE:HG22	45:FK:421:ALA:HB1	2.03	0.40
46:FN:5:VAL:HG22	46:FN:62:ARG:HD3	2.03	0.40
46:FN:248:SER:HA	46:FN:252:LYS:HD2	2.03	0.40
45:GA:88:HIS:CD2	45:HA:280:LYS:HZ1	2.39	0.40
45:GA:141:VAL:HG22	45:GA:187:SER:HA	2.02	0.40
45:GA:185:TYR:HE2	45:GA:404:PHE:HB2	1.86	0.40
46:GH:163:ILE:HD13	46:GH:251:ARG:HD2	2.03	0.40
46:GH:208:TYR:OH	46:GH:225:LEU:HD11	2.22	0.40
45:GK:311:LYS:N	45:GK:382:THR:OG1	2.53	0.40
45:GK:356:ASN:OD1	45:GK:357:TYR:N	2.55	0.40
46:GN:398:TYR:O	46:GN:403:MET:HE2	2.21	0.40
45:HC:10:GLY:O	45:HC:14:ILE:HG12	2.22	0.40
45:HC:171:ILE:HG23	45:HC:204:LEU:O	2.21	0.40
45:HC:425:LEU:HA	45:HC:425:LEU:HD23	1.79	0.40
45:HE:133:GLN:C	45:HE:252:ILE:HD11	2.42	0.40
46:HF:258:ILE:HG13	46:HF:258:ILE:O	2.21	0.40
45:HG:174:SER:HB2	45:HG:177:VAL:HB	2.03	0.40
46:HJ:295:ASP:OD2	46:HJ:296:ALA:N	2.55	0.40
45:HK:328:VAL:HG11	45:HK:353:VAL:HG21	2.02	0.40
46:HL:232:ALA:HB1	46:HL:268:ILE:HD12	2.03	0.40
45:HM:141:VAL:HG12	45:HM:171:ILE:O	2.22	0.40
45:HM:398:MET:CE	46:HN:345:ILE:HA	2.52	0.40
46:ID:116:VAL:HA	46:ID:119:VAL:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IE:143:GLY:HA3	47:IE:501:GTP:O2B	2.20	0.40
46:IH:350:LYS:HB2	46:IH:350:LYS:HE2	1.70	0.40
46:IH:372:THR:HA	46:IH:422:TYR:CE2	2.56	0.40
45:II:74:VAL:HA	45:II:77:GLU:OE1	2.21	0.40
46:IJ:21:TRP:CZ3	46:IJ:61:PRO:HB3	2.57	0.40
46:IJ:67:ASP:O	46:IJ:92:PHE:HA	2.20	0.40
45:IK:121:ARG:HA	45:IK:121:ARG:NE	2.37	0.40
46:IL:86:ARG:NE	46:IL:89:ASN:OD1	2.29	0.40
46:IL:325:GLU:HA	46:IL:328:GLU:HG2	2.03	0.40
46:JB:161:ASP:OD1	46:JB:162:ARG:N	2.54	0.40
46:JB:267:MET:HB2	46:JB:299:MET:HE2	2.03	0.40
45:JC:175:PRO:HG3	45:JC:390:ARG:NH2	2.37	0.40
46:JD:108:GLU:HA	46:JD:111:GLU:CG	2.50	0.40
45:JE:88:HIS:HB3	45:JE:91:GLN:HG2	2.03	0.40
45:JG:384:ILE:O	45:JG:387:VAL:HG22	2.22	0.40
46:JH:140:GLY:HA3	46:JH:171:PRO:HG3	2.03	0.40
45:JI:320:ARG:HD3	45:JI:360:PRO:HG3	2.02	0.40
46:JJ:182:PRO:O	46:JJ:186:THR:HG22	2.21	0.40
45:JK:33:ASP:HA	45:JK:85:GLN:HB2	2.04	0.40
45:JK:308:ARG:HH22	45:JK:341:ILE:HA	1.86	0.40
45:JM:121:ARG:HH21	45:JM:124:LYS:HD3	1.86	0.40
46:JN:274:THR:HB	46:JN:282:ARG:HH21	1.86	0.40
46:JN:334:GLN:OE1	46:JN:334:GLN:HA	2.21	0.40
45:KA:98:ASP:OD1	45:KA:99:ALA:N	2.55	0.40
45:KA:407:TRP:HZ2	46:KB:258:ILE:HB	1.87	0.40
46:KB:67:ASP:OD1	46:KB:68:LEU:N	2.51	0.40
46:KB:259:PRO:HG3	46:KB:311:LEU:HD21	2.04	0.40
45:KC:180:ALA:N	45:KC:183:GLU:OE1	2.53	0.40
45:KG:1:MET:HG2	45:KG:131:GLY:HA3	2.03	0.40
45:KG:404:PHE:CE1	46:KH:259:PRO:HA	2.57	0.40
45:KI:27:GLU:HB3	45:KI:361:THR:HG21	2.04	0.40
45:KM:107:HIS:ND1	45:KM:107:HIS:O	2.54	0.40
45:KM:137:VAL:HG23	45:KM:168:GLY:HA2	2.04	0.40
45:KM:430:LYS:HA	45:KM:430:LYS:HE2	2.03	0.40
46:KN:22:GLU:HG2	46:KN:81:PHE:HD1	1.85	0.40
45:LA:426:ALA:HA	45:LA:429:GLU:OE1	2.22	0.40
45:LG:41:THR:HG22	45:LG:41:THR:O	2.22	0.40
45:LI:55:GLU:OE2	45:LI:61:HIS:NE2	2.54	0.40
45:LK:88:HIS:ND1	45:LK:90:GLU:HG2	2.37	0.40
46:MB:1:MET:O	46:MB:2:ARG:HG2	2.22	0.40
46:MB:178:THR:HG22	46:MB:179:VAL:N	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MC:149:LEU:HD12	45:MC:149:LEU:HA	1.88	0.40
45:MC:275:ILE:HG23	45:MC:368:LEU:HD11	2.03	0.40
46:MD:237:THR:HG23	46:MD:241:ARG:HH21	1.86	0.40
45:ME:370:LYS:O	45:ME:370:LYS:HG3	2.22	0.40
45:MG:414:GLU:CD	45:MG:416:GLY:H	2.24	0.40
46:MH:293:MET:HG2	46:MH:367:PHE:HB2	2.04	0.40
46:MJ:242:PHE:HB2	46:MJ:354:CYS:SG	2.61	0.40
46:MJ:326:VAL:O	46:MJ:330:MET:HG2	2.22	0.40
45:MK:88:HIS:ND1	45:MK:89:PRO:HD2	2.36	0.40
46:ML:73:MET:CE	46:ML:92:PHE:HB3	2.52	0.40
45:MM:141:VAL:HG12	45:MM:171:ILE:O	2.21	0.40
45:MM:179:THR:O	46:MN:350:LYS:HA	2.22	0.40
45:NA:28:HIS:HE2	45:NA:48:ALA:HB3	1.87	0.40
45:NA:37:PRO:HB2	45:NA:39:ASP:OD1	2.22	0.40
46:ND:6:HIS:O	46:ND:63:ALA:HA	2.21	0.40
45:NG:49:PHE:O	45:NG:53:PHE:N	2.46	0.40
45:NG:326:LYS:HD3	46:NJ:220:PRO:HD2	2.03	0.40
45:NK:276:ILE:HD11	45:NK:283:HIS:ND1	2.36	0.40
46:NL:130:LEU:HD21	46:NL:133:PHE:CE1	2.57	0.40
45:NM:372:MET:N	45:NM:372:MET:SD	2.95	0.40
46:NN:22:GLU:HA	46:NN:25:SER:OG	2.21	0.40
46:NN:175:VAL:HG21	46:NN:204:ASN:HB2	2.03	0.40
45:OA:433:GLU:O	45:OA:437:ILE:HG23	2.21	0.40
46:OB:275:SER:O	46:OB:279:GLN:HG3	2.21	0.40
45:OC:121:ARG:O	45:OC:125:LEU:HD23	2.20	0.40
45:OG:338:LYS:HE2	45:OG:340:THR:HG22	2.04	0.40
45:OG:377:MET:SD	45:OG:379:SER:HB3	2.62	0.40
46:OH:184:ASN:OD1	46:OH:185:ALA:N	2.55	0.40
45:OI:88:HIS:CD2	45:PI:280:LYS:NZ	2.90	0.40
45:OI:196:GLU:OE1	45:OI:196:GLU:N	2.52	0.40
46:OL:132:GLY:CA	46:OL:163:ILE:O	2.69	0.40
46:OL:209:ASP:OD2	46:OL:297:LYS:HE2	2.21	0.40
45:PA:68:LEU:HD21	45:PA:118:CYS:SG	2.62	0.40
45:PA:183:GLU:N	45:PA:184:PRO:HD2	2.36	0.40
45:PC:8:HIS:HB2	45:PC:67:PHE:CD1	2.56	0.40
46:PF:377:MET:HG3	46:PF:380:ARG:NH2	2.35	0.40
45:PG:88:HIS:CE1	45:PG:90:GLU:HG3	2.56	0.40
46:PH:97:ALA:HB3	46:PH:143:THR:HB	2.03	0.40
46:PH:187:LEU:HD21	46:PH:408:PHE:CE2	2.56	0.40
46:PH:188:SER:O	46:PH:192:LEU:HD23	2.21	0.40
46:PH:205:GLU:HG2	46:PH:206:ALA:N	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PI:276:ILE:HD11	45:PI:280:LYS:HG3	2.03	0.40
45:PI:352:LYS:NZ	46:PL:179:VAL:HG22	2.36	0.40
46:PJ:178:THR:HB	46:PJ:181:GLU:HG3	2.03	0.40
46:PL:94:GLN:HA	46:PL:94:GLN:OE1	2.22	0.40
45:PM:141:VAL:HG11	45:PM:172:TYR:HA	2.02	0.40
46:PN:10:GLY:O	46:PN:14:ASN:ND2	2.54	0.40
46:PN:208:TYR:HA	46:PN:211:CYS:SG	2.61	0.40
46:PN:326:VAL:O	46:PN:330:MET:HG2	2.22	0.40
46:PN:377:MET:O	46:PN:381:VAL:HG22	2.21	0.40
45:QA:12:GLY:HA2	45:QA:15:GLN:HE21	1.86	0.40
46:QB:147:MET:HA	46:QB:150:LEU:HG	2.03	0.40
46:QD:327:ASP:O	46:QD:330:MET:HG2	2.22	0.40
45:QG:215:ARG:NH2	45:QG:299:ALA:O	2.52	0.40
46:QH:198:GLU:OE2	46:QH:254:ALA:HA	2.21	0.40
46:QH:238:CYS:SG	46:QH:239:CYS:N	2.95	0.40
45:QI:136:LEU:HD13	45:QI:167:LEU:HB2	2.04	0.40
45:QI:242:LEU:HD11	45:QI:251:ASP:OD1	2.22	0.40
46:QJ:190:HIS:HA	46:QJ:415:MET:HE3	2.03	0.40
46:QJ:347:ASN:C	46:QJ:347:ASN:HD22	2.24	0.40
45:QM:189:LEU:HD11	45:QM:418:PHE:CE1	2.57	0.40
45:RA:64:ARG:HG3	45:RA:125:LEU:HD22	2.03	0.40
46:RB:6:HIS:O	46:RB:63:ALA:HA	2.22	0.40
46:RB:222:TYR:O	46:RB:226:ASN:ND2	2.40	0.40
45:RE:171:ILE:HG22	45:RE:204:LEU:CB	2.51	0.40
46:RF:19:LYS:HD2	46:RF:227:HIS:CE1	2.56	0.40
45:RG:166:LYS:HD2	45:RG:197:HIS:O	2.21	0.40
45:RI:141:VAL:HG22	45:RI:187:SER:HA	2.03	0.40
45:RM:20:CYS:HA	45:RM:232:ALA:HB1	2.02	0.40
46:RN:97:ALA:HB3	46:RN:143:THR:HB	2.03	0.40
45:SA:288:VAL:HA	45:SA:291:ILE:HG12	2.02	0.40
46:SB:210:ILE:O	46:SB:214:THR:OG1	2.21	0.40
45:SC:229:ARG:HH22	45:SC:366:GLY:HA3	1.87	0.40
45:SE:174:SER:HB2	45:SE:177:VAL:O	2.20	0.40
45:SE:244:PHE:HB2	45:SE:356:ASN:HD21	1.84	0.40
46:SF:282:ARG:HE	46:SF:288:GLU:CD	2.24	0.40
45:SG:430:LYS:O	45:SG:433:GLU:HG3	2.21	0.40
46:SH:323:THR:O	46:SH:327:ASP:OD2	2.40	0.40
45:SK:247:ALA:HB3	45:SK:355:ILE:HD11	2.02	0.40
46:SL:179:VAL:HG23	46:SL:180:VAL:HG13	2.04	0.40
45:SM:123:ARG:HA	45:SM:123:ARG:HD3	1.61	0.40
45:SM:388:PHE:HA	45:SM:391:LEU:HG	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SN:403:MET:HG3	46:SN:407:GLU:OE2	2.21	0.40
46:TB:22:GLU:HG2	46:TB:81:PHE:CD1	2.57	0.40
46:TB:129:CYS:SG	45:TC:96:LYS:HD3	2.61	0.40
46:TB:241:ARG:H	46:TB:241:ARG:HD3	1.87	0.40
46:TB:280:GLN:H	46:TB:280:GLN:HG3	1.68	0.40
45:TC:165:SER:C	45:TC:166:LYS:HD3	2.42	0.40
45:TC:426:ALA:HA	45:TC:429:GLU:CD	2.42	0.40
46:TD:109:GLY:O	46:TD:113:ILE:HG23	2.21	0.40
46:TD:378:PHE:HA	46:TD:381:VAL:HG22	2.04	0.40
45:TG:324:VAL:HG11	45:TG:326:LYS:NZ	2.36	0.40
46:TH:327:ASP:OD1	46:TH:328:GLU:N	2.54	0.40
46:TJ:161:ASP:OD1	46:TJ:162:ARG:N	2.55	0.40
46:TJ:391:ARG:HA	46:TJ:391:ARG:HD2	1.79	0.40
45:TK:346:TRP:H	45:TK:346:TRP:HD1	1.70	0.40
45:TK:422:ARG:HD2	45:TK:422:ARG:HA	1.91	0.40
46:TL:311:LEU:N	46:TL:370:ASN:O	2.53	0.40
45:TM:319:TYR:HB3	45:TM:373:ARG:HH12	1.86	0.40
45:UA:322:ASP:OD1	45:UA:373:ARG:NH1	2.52	0.40
45:UC:209:ILE:CD1	45:UC:230:LEU:HD23	2.52	0.40
45:UE:175:PRO:HG3	45:UE:390:ARG:CZ	2.51	0.40
45:UE:181:VAL:HG23	45:UE:182:VAL:HG23	2.03	0.40
46:UF:148:GLY:O	46:UF:152:ILE:HG12	2.21	0.40
46:UJ:72:THR:O	46:UJ:75:SER:OG	2.33	0.40
46:UJ:86:ARG:HG3	46:UJ:88:ASP:H	1.86	0.40
46:UJ:304:ASP:OD1	46:UJ:306:ARG:HG2	2.22	0.40
46:UJ:404:ASP:OD1	46:UJ:406:MET:HB3	2.22	0.40
45:VA:141:VAL:HG22	45:VA:187:SER:HA	2.04	0.40
45:VA:402:ARG:HD3	45:VA:402:ARG:HA	1.94	0.40
46:VB:158:GLU:HG3	46:VB:159:TYR:CE1	2.57	0.40
46:VB:203:ASP:O	46:VB:207:LEU:HG	2.22	0.40
46:VF:52:ASN:OD1	46:VF:62:ARG:NH2	2.54	0.40
46:VF:100:ASN:HD21	46:VF:102:ALA:HB3	1.87	0.40
46:VH:4:ILE:HG13	46:VH:132:GLY:O	2.21	0.40
46:VH:213:ARG:HA	46:VH:216:LYS:HZ2	1.86	0.40
46:VH:316:LEU:HG	46:VH:352:SER:HB2	2.02	0.40
45:VI:296:PHE:HD2	45:VI:335:ILE:HD12	1.87	0.40
46:VJ:175:VAL:HG22	46:VJ:205:GLU:OE2	2.22	0.40
46:VJ:350:LYS:HA	46:VJ:350:LYS:HE2	2.03	0.40
46:VL:316:LEU:HD13	46:VL:352:SER:HB2	2.02	0.40
45:WA:210:TYR:O	45:WA:214:ARG:HG2	2.21	0.40
46:WB:287:PRO:HA	46:WB:290:THR:HG22	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WC:31:GLN:OE1	45:WC:36:MET:HA	2.21	0.40
45:WC:166:LYS:O	45:WC:199:ASP:HB3	2.21	0.40
45:WE:98:ASP:H	46:WF:2:ARG:HH12	1.70	0.40
45:WE:153:LEU:HD13	45:WE:153:LEU:HA	1.94	0.40
45:WE:398:MET:CE	46:WF:345:ILE:HA	2.51	0.40
46:WF:326:VAL:O	46:WF:330:MET:HG2	2.21	0.40
45:WG:422:ARG:O	45:WG:425:LEU:HG	2.21	0.40
46:WH:139:LEU:HD22	46:WH:188:SER:OG	2.22	0.40
46:WL:20:PHE:O	46:WL:24:ILE:HG12	2.21	0.40
46:WN:32:PRO:HG3	46:WN:81:PHE:CZ	2.57	0.40
46:WN:211:CYS:SG	46:WN:220:PRO:HB3	2.61	0.40
45:CE:21:TRP:HZ2	45:CE:65:ALA:HB2	1.86	0.40
1:0A:46:LYS:HE2	34:7R:67:TYR:HD2	1.85	0.40
21:1L:479:VAL:HG12	46:CF:279:GLN:HB3	2.03	0.40
9:1N:10:TYR:HA	46:IJ:53:GLU:OE1	2.22	0.40
31:2I:118:LYS:NZ	45:GC:339:ARG:HB3	2.37	0.40
31:3I:287:ARG:HH12	45:FG:59:GLY:HA2	1.84	0.40
34:4R:181:VAL:HG11	34:4R:204:VAL:CG1	2.51	0.40
34:4R:318:TYR:CE1	46:CF:273:LEU:HA	2.56	0.40
34:4R:424:LEU:HB2	34:4R:446:PHE:HB3	2.04	0.40
34:4R:570:VAL:HG21	34:4R:582:TYR:CE1	2.57	0.40
36:5C:59:TYR:N	46:KJ:390:ARG:HH12	2.19	0.40
37:5E:85:GLN:OE1	37:5E:87:LEU:HG	2.21	0.40
37:5H:67:ARG:HD3	37:5H:68:PRO:O	2.21	0.40
40:6G:128:LYS:HE3	45:VG:337:THR:HG21	2.03	0.40
40:6G:272:LYS:HG2	45:UC:119:LEU:HD11	2.04	0.40
41:6H:203:ASP:N	41:6H:203:ASP:OD2	2.54	0.40
41:6H:209:LEU:HD23	41:6H:209:LEU:H	1.85	0.40
34:6R:167:VAL:HA	34:6R:180:ILE:HG22	2.02	0.40
34:6R:525:GLU:HB3	34:6R:584:GLU:HG3	2.04	0.40
34:7R:87:LYS:HE3	34:7R:88:TYR:CZ	2.56	0.40
34:7R:206:ASN:HB2	34:7R:210:GLU:OE2	2.21	0.40
34:7R:315:MET:HG2	46:CB:26:ASP:OD2	2.21	0.40
34:7R:456:TYR:HE2	45:EA:46:ASP:HB3	1.86	0.40
45:AA:46:ASP:OD2	45:AA:47:ASP:N	2.55	0.40
45:AA:114:ILE:HG22	45:AA:118:CYS:SG	2.61	0.40
46:AB:3:GLU:H	46:AB:3:GLU:CD	2.25	0.40
45:AE:28:HIS:CE1	45:AE:49:PHE:HA	2.57	0.40
45:AG:188:ILE:HD12	45:AG:425:LEU:HD11	2.03	0.40
45:AI:174:SER:HB2	45:AI:177:VAL:O	2.20	0.40
45:AI:280:LYS:HB3	45:MI:89:PRO:HG2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:397:LEU:HD23	45:AI:397:LEU:HA	1.90	0.40
45:AI:420:GLU:O	45:AI:423:GLU:HG2	2.20	0.40
45:AM:271:SER:HB3	45:AM:377:MET:SD	2.62	0.40
45:AM:338:LYS:HD2	45:AM:338:LYS:HA	1.84	0.40
45:AM:340:THR:HG23	45:AM:341:ILE:HG13	2.03	0.40
46:BD:306:ARG:HD2	46:BD:340:TYR:CE2	2.57	0.40
46:BD:344:TRP:CE3	46:BD:345:ILE:HG23	2.57	0.40
46:BF:87:PRO:HA	46:BF:90:PHE:CD2	2.35	0.40
46:BH:256:ASN:HB3	46:BH:350:LYS:HD2	2.03	0.40
46:BH:396:HIS:CE1	46:BH:397:TRP:HD1	2.39	0.40
46:BJ:87:PRO:HA	46:BJ:90:PHE:CD2	2.56	0.40
45:BM:384:ILE:HD12	45:BM:384:ILE:HA	1.92	0.40
46:BN:22:GLU:OE2	46:BN:80:PRO:HB2	2.22	0.40
46:BN:65:LEU:HD22	46:BN:90:PHE:HE1	1.86	0.40
45:CC:176:GLN:OE1	45:CC:176:GLN:N	2.55	0.40
46:CF:16:ILE:HD13	46:CF:226:ASN:OD1	2.21	0.40
46:CF:18:ALA:O	46:CF:22:GLU:HG3	2.21	0.40
45:CG:149:LEU:O	45:CG:153:LEU:HD23	2.22	0.40
46:CH:47:ILE:HG13	46:CH:48:ASN:N	2.37	0.40
45:CI:231:ILE:O	45:CI:235:ILE:HG12	2.21	0.40
45:CK:118:CYS:SG	45:CK:153:LEU:HD11	2.61	0.40
45:CK:439:THR:HB	46:CL:391:ARG:HD3	2.04	0.40
46:CL:30:ILE:HG21	46:CL:51:TYR:HE2	1.85	0.40
46:CL:239:CYS:SG	46:CL:247:ASN:HA	2.61	0.40
46:CL:362:LYS:HD3	46:CL:362:LYS:HA	1.81	0.40
46:CN:21:TRP:CD1	46:CN:85:PHE:HZ	2.40	0.40
45:DA:260:VAL:HG13	45:DA:265:ILE:O	2.21	0.40
46:DB:148:GLY:O	46:DB:152:ILE:HG12	2.21	0.40
46:DB:282:ARG:HH21	46:DB:288:GLU:CD	2.24	0.40
46:DD:15:GLN:HA	46:DD:15:GLN:OE1	2.22	0.40
46:DD:287:PRO:O	46:DD:290:THR:HG22	2.22	0.40
45:DE:169:PHE:HD2	45:DE:202:VAL:HB	1.87	0.40
45:DE:319:TYR:CE2	45:DE:375:VAL:HB	2.56	0.40
46:DF:330:MET:HA	46:DF:333:VAL:HG12	2.04	0.40
46:DH:386:THR:O	46:DH:390:ARG:HG2	2.21	0.40
46:DL:324:LYS:HA	46:DL:324:LYS:HE3	2.03	0.40
46:DN:44:LEU:HD23	46:DN:44:LEU:HA	1.92	0.40
45:EA:9:VAL:HG13	45:EA:139:ASN:HB3	2.04	0.40
45:EA:69:ASP:O	45:EA:94:SER:HA	2.22	0.40
46:EB:10:GLY:O	46:EB:14:ASN:ND2	2.53	0.40
46:EB:20:PHE:O	46:EB:24:ILE:HG12	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EC:91:GLN:CD	45:EC:121:ARG:HE	2.24	0.40
45:EC:118:CYS:O	45:EC:122:ILE:HG13	2.21	0.40
46:ED:293:MET:SD	46:ED:367:PHE:HB2	2.61	0.40
45:EE:272:TYR:HD2	45:EE:275:ILE:HD11	1.87	0.40
46:EF:267:MET:HE2	46:EF:299:MET:HG3	2.03	0.40
45:EI:331:SER:O	45:EI:335:ILE:HG12	2.21	0.40
45:EI:348:PRO:HD2	46:EJ:388:MET:HE2	2.03	0.40
46:EL:143:THR:OG1	49:EL:501:GDP:O1B	2.40	0.40
46:EL:202:ILE:HG23	46:EL:300:MET:SD	2.61	0.40
46:EL:252:LYS:HA	46:EL:255:VAL:HG12	2.02	0.40
46:EL:396:HIS:HA	46:EL:399:THR:OG1	2.22	0.40
45:EM:102:ASN:ND2	45:EM:105:ARG:HG3	2.37	0.40
46:EN:310:TYR:CD1	46:EN:371:SER:HB2	2.56	0.40
45:FA:203:MET:CE	45:FA:267:PHE:HB3	2.46	0.40
45:FA:326:LYS:HA	45:FA:326:LYS:HD2	1.79	0.40
45:FA:362:VAL:HA	45:FA:368:LEU:HD11	2.03	0.40
46:FB:3:GLU:CD	46:FB:49:VAL:HA	2.41	0.40
46:FB:69:GLU:HA	46:FB:70:PRO:HD3	1.88	0.40
45:FE:88:HIS:ND1	45:FE:89:PRO:HD2	2.36	0.40
45:FE:312:TYR:HB2	45:FE:343:PHE:CD2	2.56	0.40
46:FF:86:ARG:NH2	46:GF:281:TYR:HD2	2.20	0.40
46:FF:226:ASN:ND2	49:FF:501:GDP:HN1	2.19	0.40
46:FF:253:LEU:O	46:FF:257:LEU:HB2	2.22	0.40
45:FG:71:GLU:OE1	46:FH:247:ASN:ND2	2.53	0.40
45:FI:35:GLN:HG2	45:FI:60:LYS:HZ3	1.87	0.40
45:FM:216:ASN:HB3	45:FM:275:ILE:O	2.22	0.40
45:GC:155:GLU:HG3	45:GC:197:HIS:NE2	2.36	0.40
45:GC:261:PRO:HA	46:GF:394:PHE:CE2	2.57	0.40
46:GD:105:HIS:HD1	46:GD:106:TYR:HD1	1.70	0.40
46:GD:105:HIS:HD2	46:GD:146:GLY:O	2.05	0.40
45:GE:425:LEU:HA	45:GE:425:LEU:HD23	1.78	0.40
46:GF:216:LYS:HA	46:GF:216:LYS:HD2	1.80	0.40
46:GJ:210:ILE:O	46:GJ:214:THR:HG22	2.22	0.40
46:GJ:288:GLU:OE2	46:GJ:291:GLN:NE2	2.54	0.40
46:GL:21:TRP:CZ3	46:GL:61:PRO:HB3	2.57	0.40
46:GL:274:THR:HB	46:GL:282:ARG:NH2	2.36	0.40
45:GM:242:LEU:HD11	45:GM:252:ILE:HG13	2.04	0.40
46:GN:100:ASN:HD21	46:GN:102:ALA:HB3	1.87	0.40
46:GN:212:PHE:O	46:GN:216:LYS:HA	2.21	0.40
45:HA:243:ARG:O	45:HA:244:PHE:HD1	2.04	0.40
45:HC:179:THR:O	46:HD:350:LYS:HA	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HD:332:ASN:O	46:HD:336:LYS:HE2	2.21	0.40
45:HE:108:TYR:HA	45:HE:112:LYS:NZ	2.37	0.40
45:HE:407:TRP:CG	46:HF:255:VAL:HG23	2.56	0.40
45:HG:167:LEU:HD11	45:HG:252:ILE:HG23	2.04	0.40
45:HG:298:PRO:HG3	45:HG:308:ARG:NH1	2.36	0.40
46:HH:208:TYR:CE1	46:HH:225:LEU:HD11	2.56	0.40
45:HK:210:TYR:OH	46:HL:323:THR:OG1	2.38	0.40
45:HK:260:VAL:HG13	45:HK:265:ILE:O	2.22	0.40
46:HN:187:LEU:HD11	46:HN:408:PHE:CE1	2.56	0.40
45:IA:31:GLN:HB3	45:IA:32:PRO:HD2	2.03	0.40
46:IB:151:LEU:O	46:IB:155:VAL:HG22	2.21	0.40
45:IG:302:MET:HE3	45:IG:302:MET:HB2	1.74	0.40
45:IG:398:MET:CE	46:IH:345:ILE:HA	2.51	0.40
45:II:430:LYS:HD2	45:II:430:LYS:HA	1.86	0.40
46:IJ:217:LEU:HD23	46:IJ:217:LEU:H	1.86	0.40
46:IJ:304:ASP:OD2	46:IJ:307:HIS:N	2.55	0.40
45:IK:287:SER:N	45:IK:290:GLU:OE2	2.45	0.40
45:IK:322:ASP:OD1	45:IK:373:ARG:NH1	2.54	0.40
46:IL:289:LEU:CD2	46:IL:363:MET:HG2	2.51	0.40
45:IM:210:TYR:CG	46:IN:324:LYS:HD3	2.57	0.40
46:JB:209:ASP:OD1	46:JB:210:ILE:N	2.55	0.40
45:JC:26:LEU:HD11	45:JC:364:PRO:HD2	2.04	0.40
45:JC:115:VAL:O	45:JC:119:LEU:HD23	2.22	0.40
45:JE:27:GLU:HB2	45:JE:361:THR:HG21	2.02	0.40
45:JE:368:LEU:H	45:JE:368:LEU:HD12	1.87	0.40
46:JF:409:THR:O	46:JF:412:GLU:HG3	2.22	0.40
45:JG:71:GLU:HA	45:JG:72:PRO:HD3	1.91	0.40
45:JI:105:ARG:HG2	45:JI:411:GLU:OE2	2.22	0.40
45:JI:250:VAL:HG13	45:JI:254:GLU:HB2	2.02	0.40
45:JK:211:ASP:HA	45:JK:214:ARG:CG	2.51	0.40
45:JK:238:LEU:HD11	45:JK:255:PHE:CZ	2.57	0.40
45:JK:346:TRP:CD1	46:JN:391:ARG:HG3	2.57	0.40
46:JL:21:TRP:CZ3	46:JL:61:PRO:HB3	2.57	0.40
46:JL:115:SER:O	46:JL:119:VAL:HG23	2.21	0.40
45:JM:63:PRO:HB2	45:JM:91:GLN:HE22	1.86	0.40
45:JM:105:ARG:HA	45:JM:411:GLU:OE2	2.21	0.40
45:JM:428:LEU:HG	45:JM:432:TYR:HE2	1.86	0.40
46:KF:6:HIS:NE2	46:KF:8:GLN:OE1	2.54	0.40
45:KG:177:VAL:HG12	45:KG:207:GLU:OE2	2.22	0.40
45:KG:210:TYR:OH	46:KH:323:THR:OG1	2.29	0.40
46:KH:105:HIS:CE1	46:KH:150:LEU:HD12	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KI:181:VAL:HG12	46:KJ:347:ASN:O	2.22	0.40
45:KI:215:ARG:HE	45:KI:216:ASN:CG	2.25	0.40
45:LC:338:LYS:NZ	45:LC:340:THR:OG1	2.54	0.40
46:LD:232:ALA:HB1	46:LD:268:ILE:HD12	2.04	0.40
46:LF:105:HIS:CD2	46:LF:150:LEU:HB2	2.57	0.40
46:LF:334:GLN:HE22	46:LF:348:ASN:N	2.16	0.40
45:LI:221:ARG:HA	46:LJ:324:LYS:NZ	2.27	0.40
45:LI:328:VAL:HG11	45:LI:353:VAL:HG21	2.02	0.40
46:LJ:177:ASP:OD2	49:LJ:501:GDP:O3'	2.33	0.40
45:LK:27:GLU:CD	45:LK:243:ARG:HH12	2.24	0.40
45:LK:229:ARG:NH1	45:LK:366:GLY:HA2	2.37	0.40
45:LK:377:MET:SD	45:LK:379:SER:HB3	2.62	0.40
45:LM:220:GLU:OE2	45:LM:221:ARG:HG3	2.21	0.40
45:MA:229:ARG:HD3	45:MA:363:VAL:HG11	2.03	0.40
45:MC:151:SER:HB2	45:MC:193:SER:OG	2.22	0.40
45:MC:318:MET:O	45:MC:375:VAL:HA	2.22	0.40
45:MI:422:ARG:HB3	45:MI:422:ARG:CZ	2.51	0.40
46:MJ:342:VAL:HG13	46:MJ:345:ILE:HG22	2.03	0.40
45:MK:51:THR:HG21	45:MK:243:ARG:HD3	2.03	0.40
45:MK:147:SER:HB2	45:MK:190:SER:HB3	2.04	0.40
45:MK:188:ILE:HD12	45:MK:425:LEU:HD22	2.04	0.40
45:MK:285:GLN:OE1	45:MK:285:GLN:N	2.52	0.40
46:ML:1:MET:SD	46:ML:46:ARG:NH1	2.94	0.40
46:ML:175:VAL:HG23	46:ML:175:VAL:O	2.21	0.40
45:NA:121:ARG:HH12	45:NA:124:LYS:HB2	1.86	0.40
45:NA:227:LEU:O	45:NA:231:ILE:HG12	2.22	0.40
46:ND:378:PHE:HA	46:ND:381:VAL:HG22	2.03	0.40
45:NE:151:SER:HB2	45:NE:193:SER:OG	2.22	0.40
45:NE:167:LEU:HD22	45:NE:200:VAL:HB	2.04	0.40
45:NE:186:ASN:OD1	45:NE:187:SER:N	2.55	0.40
46:NF:286:VAL:CG2	46:NF:287:PRO:HD3	2.52	0.40
45:NI:3:GLU:OE2	45:NI:131:GLY:N	2.53	0.40
45:NK:287:SER:O	45:NK:290:GLU:HG3	2.22	0.40
45:NK:333:ALA:HA	45:NK:336:LYS:HZ3	1.86	0.40
46:NL:105:HIS:CE1	46:NL:150:LEU:HD12	2.56	0.40
46:NL:309:ARG:HH21	46:NL:342:VAL:HG23	1.85	0.40
45:NM:231:ILE:O	45:NM:235:ILE:HG12	2.20	0.40
45:NM:271:SER:O	45:NM:377:MET:HB3	2.22	0.40
46:NN:21:TRP:CZ2	46:NN:63:ALA:HB2	2.57	0.40
46:NN:51:TYR:CD1	46:NN:61:PRO:HA	2.57	0.40
45:OA:121:ARG:NH2	45:OA:125:LEU:HD21	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OA:326:LYS:HD2	46:OD:208:TYR:CD1	2.56	0.40
46:OB:225:LEU:O	46:OB:228:LEU:HG	2.21	0.40
46:OB:403:MET:HG3	46:OB:407:GLU:OE2	2.22	0.40
45:OC:132:LEU:O	45:OC:164:LYS:NZ	2.34	0.40
45:OC:204:LEU:HD23	45:OC:204:LEU:HA	1.97	0.40
45:OE:210:TYR:CE2	46:OF:324:LYS:HA	2.48	0.40
46:OF:267:MET:HG3	46:OF:299:MET:CE	2.49	0.40
45:OG:434:GLU:O	45:OG:437:ILE:HG22	2.21	0.40
45:OI:90:GLU:CG	45:PI:280:LYS:HE2	2.52	0.40
45:OM:71:GLU:HG2	46:ON:247:ASN:HD22	1.86	0.40
45:OM:222:PRO:O	46:ON:322:SER:HB2	2.21	0.40
46:PB:258:ILE:HG13	46:PB:266:PHE:HZ	1.86	0.40
46:PD:28:HIS:HA	46:PD:43:GLN:CD	2.41	0.40
46:PD:267:MET:CE	46:PD:301:CYS:HB2	2.52	0.40
45:PE:426:ALA:O	45:PE:429:GLU:HG2	2.21	0.40
46:PH:385:PHE:HE2	46:PH:412:GLU:HB3	1.85	0.40
45:PI:176:GLN:O	46:PJ:331:LEU:HD21	2.21	0.40
46:PJ:286:VAL:HG12	46:PJ:329:GLN:OE1	2.22	0.40
46:PJ:309:ARG:NH1	46:PJ:343:GLU:OE1	2.52	0.40
45:QA:27:GLU:OE2	45:QA:28:HIS:ND1	2.55	0.40
46:QB:251:ARG:HE	45:QC:105:ARG:NH1	2.19	0.40
46:QD:330:MET:HA	46:QD:333:VAL:HG12	2.02	0.40
46:QF:286:VAL:HB	46:QF:287:PRO:HD3	2.04	0.40
45:QG:220:GLU:C	45:QG:221:ARG:HD3	2.41	0.40
45:QI:175:PRO:HG3	45:QI:390:ARG:NH2	2.36	0.40
45:QI:352:LYS:HD3	46:QJ:178:THR:HA	2.04	0.40
45:QM:90:GLU:HG3	45:QM:121:ARG:NH2	2.37	0.40
45:RC:19:ALA:HB2	45:RC:228:ASN:HB3	2.03	0.40
45:RC:209:ILE:HD12	45:RC:227:LEU:HD22	2.03	0.40
45:RE:102:ASN:ND2	45:RE:105:ARG:HG3	2.35	0.40
46:RF:408:PHE:O	46:RF:411:ALA:N	2.54	0.40
45:RG:280:LYS:HD2	45:RG:283:HIS:CG	2.56	0.40
46:RH:5:VAL:HA	46:RH:62:ARG:HG3	2.03	0.40
46:RH:200:MET:HE2	46:RH:266:PHE:HB2	2.03	0.40
45:RI:147:SER:HB2	45:RI:190:SER:HB3	2.03	0.40
46:RJ:153:SER:O	46:RJ:156:ARG:HB3	2.22	0.40
46:RJ:182:PRO:O	46:RJ:186:THR:HG23	2.21	0.40
46:RJ:224:ASP:O	46:RJ:228:LEU:HD23	2.22	0.40
46:RL:153:SER:O	46:RL:157:GLU:OE1	2.39	0.40
46:RL:258:ILE:HB	45:RM:407:TRP:CZ2	2.57	0.40
45:RM:260:VAL:HG13	45:RM:265:ILE:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SA:184:PRO:O	45:SA:188:ILE:HG12	2.21	0.40
46:SB:248:SER:OG	46:SB:350:LYS:NZ	2.31	0.40
46:SB:256:ASN:HD22	46:SB:350:LYS:HD3	1.87	0.40
46:SB:325:GLU:OE2	46:SB:325:GLU:N	2.54	0.40
45:SC:2:ARG:HD2	45:SC:242:LEU:O	2.21	0.40
45:SE:23:LEU:O	45:SE:27:GLU:HG3	2.21	0.40
45:SG:164:LYS:HD3	45:SG:165:SER:N	2.31	0.40
46:SH:175:VAL:HG22	46:SH:205:GLU:HB2	2.02	0.40
46:SH:324:LYS:HA	45:SI:210:TYR:HE2	1.86	0.40
45:SI:30:ILE:HD13	45:SI:36:MET:SD	2.62	0.40
45:SI:101:ASN:HA	45:SI:144:GLY:H	1.87	0.40
45:SI:123:ARG:HD2	45:SI:123:ARG:HA	1.87	0.40
45:SI:352:LYS:HA	46:SJ:177:ASP:O	2.22	0.40
46:SJ:200:MET:HE1	46:SJ:268:ILE:HG23	2.02	0.40
46:SJ:394:PHE:HB3	46:SJ:397:TRP:HD1	1.86	0.40
46:SL:375:GLN:HG3	46:SL:422:TYR:HE2	1.87	0.40
45:SM:79:ARG:NH1	45:SM:79:ARG:HB2	2.35	0.40
45:SM:229:ARG:HH22	45:SM:366:GLY:HA3	1.87	0.40
45:SM:326:LYS:HE2	46:SN:220:PRO:HD2	2.03	0.40
47:SM:501:GTP:H8	47:SM:501:GTP:O1A	2.04	0.40
45:TA:124:LYS:HE2	45:TA:124:LYS:HB2	1.88	0.40
45:TC:420:GLU:HA	45:TC:423:GLU:CD	2.41	0.40
46:TD:91:VAL:HG21	46:TD:116:VAL:HB	2.03	0.40
46:TD:116:VAL:HA	46:TD:119:VAL:HG12	2.03	0.40
45:TE:32:PRO:HB3	45:TE:83:TYR:HE1	1.85	0.40
46:TF:45:GLU:HG2	46:TF:46:ARG:HG2	2.02	0.40
45:TG:2:ARG:O	45:TG:51:THR:HA	2.20	0.40
45:TG:164:LYS:HD3	45:TG:165:SER:H	1.86	0.40
46:TH:88:ASP:OD1	46:TH:89:ASN:N	2.55	0.40
46:TJ:21:TRP:CD1	46:TJ:85:PHE:HZ	2.39	0.40
46:TJ:201:VAL:HG22	46:TJ:266:PHE:O	2.21	0.40
45:TK:32:PRO:HB3	45:TK:83:TYR:HE1	1.86	0.40
46:TL:28:HIS:C	46:TL:43:GLN:HE21	2.24	0.40
46:TL:252:LYS:O	46:TL:256:ASN:ND2	2.55	0.40
46:TL:258:ILE:HG23	46:TL:263:LEU:O	2.22	0.40
45:UA:331:SER:O	45:UA:335:ILE:HG12	2.21	0.40
46:UB:97:ALA:HA	46:UB:103:LYS:HG2	2.03	0.40
46:UB:344:TRP:CE3	45:UC:401:LYS:HD2	2.57	0.40
46:UD:104:GLY:O	46:UD:146:GLY:HA3	2.21	0.40
45:UE:89:PRO:HD2	45:VC:280:LYS:CE	2.49	0.40
45:UE:256:GLN:CD	46:UF:397:TRP:HZ2	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:143:THR:O	46:UF:147:MET:HE2	2.21	0.40
46:UF:233:MET:O	46:UF:236:VAL:HG12	2.21	0.40
46:UF:325:GLU:O	46:UF:328:GLU:HG3	2.21	0.40
46:UH:69:GLU:O	46:UH:73:MET:HE1	2.20	0.40
46:UH:101:TRP:HD1	46:UH:145:SER:OG	2.05	0.40
46:UH:156:ARG:NH1	46:UH:195:ASN:O	2.55	0.40
46:UL:122:LYS:O	46:UL:125:GLU:HG3	2.21	0.40
46:UN:274:THR:HB	46:UN:282:ARG:NH1	2.36	0.40
45:VA:2:ARG:HH12	46:VD:70:PRO:CD	2.35	0.40
46:VB:200:MET:HG2	46:VB:268:ILE:HG23	2.03	0.40
45:VC:222:PRO:HG2	46:VD:324:LYS:HE2	2.03	0.40
46:VD:69:GLU:HA	46:VD:70:PRO:HD3	1.96	0.40
46:VD:175:VAL:HG23	46:VD:205:GLU:HG3	2.04	0.40
45:VE:317:MET:SD	45:VE:317:MET:N	2.94	0.40
46:VF:289:LEU:HD11	46:VF:363:MET:SD	2.62	0.40
45:VG:143:GLY:HA3	47:VG:501:GTP:O2B	2.22	0.40
45:VG:422:ARG:NH1	45:VG:426:ALA:HB2	2.33	0.40
46:VJ:5:VAL:HG12	46:VJ:62:ARG:HD3	2.03	0.40
46:VJ:208:TYR:CE1	46:VJ:225:LEU:HD11	2.56	0.40
46:VJ:395:LEU:O	46:VJ:399:THR:HG23	2.21	0.40
45:VK:301:MET:HE1	45:VK:307:PRO:HD3	2.04	0.40
46:VL:210:ILE:HG13	46:VL:211:CYS:N	2.37	0.40
46:VN:208:TYR:CE2	46:VN:225:LEU:HD11	2.55	0.40
46:VN:288:GLU:O	46:VN:291:GLN:HG3	2.21	0.40
46:WB:188:SER:O	46:WB:192:LEU:HD23	2.21	0.40
46:WB:216:LYS:HB2	46:WB:275:SER:OG	2.22	0.40
46:WB:240:LEU:HD12	46:WB:249:ASP:HB2	2.03	0.40
45:WC:9:VAL:HG13	45:WC:139:ASN:HB3	2.04	0.40
45:WE:18:ASN:O	45:WE:22:GLU:HG2	2.22	0.40
46:WF:313:ALA:HB1	46:WF:367:PHE:HE1	1.86	0.40
45:WG:212:ILE:HD13	45:WG:215:ARG:HH11	1.86	0.40
45:WG:289:ALA:O	45:WG:292:THR:HG22	2.22	0.40
46:WH:39:ASP:OD2	46:WH:40:SER:N	2.54	0.40
45:WI:156:ARG:HA	45:WI:156:ARG:HD2	1.71	0.40
45:WI:164:LYS:HD3	45:WI:164:LYS:HA	1.85	0.40
45:WK:85:GLN:OE1	45:WK:85:GLN:N	2.54	0.40
45:WM:138:PHE:HE1	45:WM:169:PHE:CD2	2.40	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

### 5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0A	133/213 (62%)	132 (99%)	1 (1%)	81	88
1	1A	133/213 (62%)	132 (99%)	1 (1%)	81	88
1	2A	133/213 (62%)	131 (98%)	2 (2%)	65	79
1	3A	133/213 (62%)	132 (99%)	1 (1%)	81	88
2	0B	291/301 (97%)	290 (100%)	1 (0%)	92	95
3	0C	81/137 (59%)	81 (100%)	0	100	100
3	1C	81/137 (59%)	81 (100%)	0	100	100
4	0D	175/197 (89%)	174 (99%)	1 (1%)	86	92
4	1D	175/197 (89%)	173 (99%)	2 (1%)	73	84
4	2D	175/197 (89%)	173 (99%)	2 (1%)	73	84
5	0E	172/175 (98%)	170 (99%)	2 (1%)	71	83
5	1E	172/175 (98%)	170 (99%)	2 (1%)	71	83
5	2E	172/175 (98%)	170 (99%)	2 (1%)	71	83
5	3E	172/175 (98%)	169 (98%)	3 (2%)	60	78
6	0F	182/194 (94%)	180 (99%)	2 (1%)	73	84
7	0G	153/167 (92%)	151 (99%)	2 (1%)	69	81
7	1G	125/167 (75%)	125 (100%)	0	100	100
8	0H	111/413 (27%)	110 (99%)	1 (1%)	78	87
8	1H	392/413 (95%)	385 (98%)	7 (2%)	59	77
9	0N	256/451 (57%)	256 (100%)	0	100	100
9	1N	423/451 (94%)	421 (100%)	2 (0%)	88	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	2N	256/451 (57%)	254 (99%)	2 (1%)	81	88
10	0Q	174/182 (96%)	172 (99%)	2 (1%)	73	84
10	1Q	174/182 (96%)	173 (99%)	1 (1%)	86	92
10	2Q	174/182 (96%)	174 (100%)	0	100	100
10	3Q	174/182 (96%)	173 (99%)	1 (1%)	86	92
10	4Q	174/182 (96%)	174 (100%)	0	100	100
10	5Q	174/182 (96%)	173 (99%)	1 (1%)	86	92
10	6Q	174/182 (96%)	173 (99%)	1 (1%)	86	92
11	0S	257/286 (90%)	256 (100%)	1 (0%)	91	94
11	1S	257/286 (90%)	255 (99%)	2 (1%)	81	88
11	2S	257/286 (90%)	256 (100%)	1 (0%)	91	94
11	3S	257/286 (90%)	257 (100%)	0	100	100
12	0T	229/264 (87%)	225 (98%)	4 (2%)	60	78
12	1T	251/264 (95%)	248 (99%)	3 (1%)	71	83
12	2T	251/264 (95%)	247 (98%)	4 (2%)	62	78
12	3T	251/264 (95%)	248 (99%)	3 (1%)	71	83
13	0U	528/571 (92%)	520 (98%)	8 (2%)	65	79
13	1U	528/571 (92%)	526 (100%)	2 (0%)	91	94
13	2U	528/571 (92%)	524 (99%)	4 (1%)	81	88
13	3U	528/571 (92%)	524 (99%)	4 (1%)	81	88
14	0V	196/249 (79%)	194 (99%)	2 (1%)	76	85
14	1V	244/249 (98%)	241 (99%)	3 (1%)	71	83
14	2V	244/249 (98%)	241 (99%)	3 (1%)	71	83
14	3V	244/249 (98%)	243 (100%)	1 (0%)	91	94
15	0X	98/129 (76%)	97 (99%)	1 (1%)	76	85
15	1X	128/129 (99%)	128 (100%)	0	100	100
15	2X	128/129 (99%)	126 (98%)	2 (2%)	62	78
15	3X	128/129 (99%)	128 (100%)	0	100	100
15	4X	128/129 (99%)	128 (100%)	0	100	100
16	1B	441/441 (100%)	439 (100%)	2 (0%)	88	93
16	2B	264/441 (60%)	263 (100%)	1 (0%)	91	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
16	3B	263/441 (60%)	262 (100%)	1 (0%)	91	94
17	1F	121/157 (77%)	119 (98%)	2 (2%)	60	78
18	1I	172/239 (72%)	171 (99%)	1 (1%)	86	92
19	1J	328/370 (89%)	328 (100%)	0	100	100
20	1K	263/463 (57%)	262 (100%)	1 (0%)	91	94
20	2K	275/463 (59%)	272 (99%)	3 (1%)	73	84
21	1L	771/878 (88%)	766 (99%)	5 (1%)	86	92
21	2L	576/878 (66%)	567 (98%)	9 (2%)	62	78
21	3L	191/878 (22%)	190 (100%)	1 (0%)	88	93
22	1M	323/325 (99%)	320 (99%)	3 (1%)	78	87
22	2M	323/325 (99%)	322 (100%)	1 (0%)	92	95
23	1O	228/458 (50%)	223 (98%)	5 (2%)	52	71
23	2O	346/458 (76%)	340 (98%)	6 (2%)	60	78
23	3O	258/458 (56%)	251 (97%)	7 (3%)	44	66
24	1P	328/471 (70%)	323 (98%)	5 (2%)	65	79
24	2P	173/471 (37%)	169 (98%)	4 (2%)	50	70
25	1R	466/475 (98%)	466 (100%)	0	100	100
25	2R	466/475 (98%)	465 (100%)	1 (0%)	93	96
25	3R	466/475 (98%)	465 (100%)	1 (0%)	93	96
26	1W	211/265 (80%)	211 (100%)	0	100	100
26	2W	109/265 (41%)	107 (98%)	2 (2%)	59	77
27	2C	271/271 (100%)	270 (100%)	1 (0%)	91	94
27	3C	271/271 (100%)	271 (100%)	0	100	100
27	4C	271/271 (100%)	270 (100%)	1 (0%)	91	94
28	2F	81/90 (90%)	81 (100%)	0	100	100
29	2G	91/91 (100%)	91 (100%)	0	100	100
30	2H	59/212 (28%)	59 (100%)	0	100	100
30	3H	59/212 (28%)	59 (100%)	0	100	100
30	4H	59/212 (28%)	59 (100%)	0	100	100
31	2I	124/259 (48%)	122 (98%)	2 (2%)	62	78
31	3I	80/259 (31%)	79 (99%)	1 (1%)	69	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
32	3D	195/195 (100%)	195 (100%)	0	100	100
33	4F	179/245 (73%)	178 (99%)	1 (1%)	86	92
34	4R	561/568 (99%)	561 (100%)	0	100	100
34	5R	561/568 (99%)	558 (100%)	3 (0%)	88	93
34	6R	561/568 (99%)	559 (100%)	2 (0%)	91	94
34	7R	561/568 (99%)	557 (99%)	4 (1%)	84	90
35	4S	169/222 (76%)	169 (100%)	0	100	100
35	5S	169/222 (76%)	166 (98%)	3 (2%)	59	77
36	5A	140/159 (88%)	139 (99%)	1 (1%)	84	90
36	5B	140/159 (88%)	138 (99%)	2 (1%)	67	80
36	5C	140/159 (88%)	139 (99%)	1 (1%)	84	90
36	5D	101/159 (64%)	97 (96%)	4 (4%)	31	57
37	5E	173/227 (76%)	170 (98%)	3 (2%)	60	78
37	5F	194/227 (86%)	194 (100%)	0	100	100
37	5G	194/227 (86%)	192 (99%)	2 (1%)	76	85
37	5H	132/227 (58%)	131 (99%)	1 (1%)	81	88
39	6F	128/141 (91%)	127 (99%)	1 (1%)	81	88
40	6G	194/329 (59%)	193 (100%)	1 (0%)	88	93
41	6H	150/474 (32%)	147 (98%)	3 (2%)	55	73
44	8R	31/31 (100%)	31 (100%)	0	100	100
45	AA	370/376 (98%)	370 (100%)	0	100	100
45	AC	370/376 (98%)	370 (100%)	0	100	100
45	AE	370/376 (98%)	370 (100%)	0	100	100
45	AG	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	AI	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	AK	370/376 (98%)	370 (100%)	0	100	100
45	AM	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	BA	366/376 (97%)	365 (100%)	1 (0%)	92	95
45	BC	366/376 (97%)	364 (100%)	2 (0%)	88	93
45	BE	366/376 (97%)	366 (100%)	0	100	100
45	BG	366/376 (97%)	366 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	BI	366/376 (97%)	366 (100%)	0	100	100
45	BK	366/376 (97%)	366 (100%)	0	100	100
45	BM	366/376 (97%)	364 (100%)	2 (0%)	88	93
45	CA	370/376 (98%)	370 (100%)	0	100	100
45	CC	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	CE	370/376 (98%)	370 (100%)	0	100	100
45	CG	370/376 (98%)	367 (99%)	3 (1%)	81	88
45	CI	370/376 (98%)	370 (100%)	0	100	100
45	CK	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	CM	370/376 (98%)	370 (100%)	0	100	100
45	DA	367/376 (98%)	367 (100%)	0	100	100
45	DC	368/376 (98%)	365 (99%)	3 (1%)	81	88
45	DE	367/376 (98%)	366 (100%)	1 (0%)	92	95
45	DG	368/376 (98%)	366 (100%)	2 (0%)	88	93
45	DI	367/376 (98%)	365 (100%)	2 (0%)	88	93
45	DK	368/376 (98%)	366 (100%)	2 (0%)	88	93
45	DM	367/376 (98%)	366 (100%)	1 (0%)	92	95
45	EA	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	EC	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	EE	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	EG	370/376 (98%)	370 (100%)	0	100	100
45	EI	370/376 (98%)	367 (99%)	3 (1%)	81	88
45	EK	370/376 (98%)	370 (100%)	0	100	100
45	EM	370/376 (98%)	368 (100%)	2 (0%)	88	93
45	FA	363/376 (96%)	363 (100%)	0	100	100
45	FC	366/376 (97%)	366 (100%)	0	100	100
45	FE	367/376 (98%)	367 (100%)	0	100	100
45	FG	370/376 (98%)	370 (100%)	0	100	100
45	FI	367/376 (98%)	366 (100%)	1 (0%)	92	95
45	FK	366/376 (97%)	365 (100%)	1 (0%)	92	95
45	FM	363/376 (96%)	362 (100%)	1 (0%)	92	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	GA	363/376 (96%)	360 (99%)	3 (1%)	81	88
45	GC	365/376 (97%)	361 (99%)	4 (1%)	73	84
45	GE	365/376 (97%)	365 (100%)	0	100	100
45	GG	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	GI	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	GK	370/376 (98%)	370 (100%)	0	100	100
45	GM	363/376 (96%)	361 (99%)	2 (1%)	86	92
45	HA	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	HC	365/376 (97%)	365 (100%)	0	100	100
45	HE	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	HG	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	HI	365/376 (97%)	365 (100%)	0	100	100
45	HK	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	HM	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	IA	366/376 (97%)	365 (100%)	1 (0%)	92	95
45	IC	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	IE	366/376 (97%)	365 (100%)	1 (0%)	92	95
45	IG	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	II	370/376 (98%)	368 (100%)	2 (0%)	88	93
45	IK	366/376 (97%)	364 (100%)	2 (0%)	88	93
45	IM	366/376 (97%)	365 (100%)	1 (0%)	92	95
45	JA	366/376 (97%)	365 (100%)	1 (0%)	92	95
45	JC	367/376 (98%)	365 (100%)	2 (0%)	88	93
45	JE	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	JG	370/376 (98%)	370 (100%)	0	100	100
45	JI	369/376 (98%)	369 (100%)	0	100	100
45	JK	370/376 (98%)	368 (100%)	2 (0%)	88	93
45	JM	366/376 (97%)	366 (100%)	0	100	100
45	KA	367/376 (98%)	366 (100%)	1 (0%)	92	95
45	KC	367/376 (98%)	366 (100%)	1 (0%)	92	95
45	KE	368/376 (98%)	365 (99%)	3 (1%)	81	88

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	KG	370/376 (98%)	370 (100%)	0	100	100
45	KI	370/376 (98%)	365 (99%)	5 (1%)	67	80
45	KK	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	KM	367/376 (98%)	365 (100%)	2 (0%)	88	93
45	LA	370/376 (98%)	368 (100%)	2 (0%)	88	93
45	LC	370/376 (98%)	370 (100%)	0	100	100
45	LE	369/376 (98%)	367 (100%)	2 (0%)	88	93
45	LG	370/376 (98%)	370 (100%)	0	100	100
45	LI	368/376 (98%)	367 (100%)	1 (0%)	92	95
45	LK	370/376 (98%)	370 (100%)	0	100	100
45	LM	370/376 (98%)	367 (99%)	3 (1%)	81	88
45	MA	369/376 (98%)	367 (100%)	2 (0%)	88	93
45	MC	366/376 (97%)	365 (100%)	1 (0%)	92	95
45	ME	367/376 (98%)	367 (100%)	0	100	100
45	MG	370/376 (98%)	370 (100%)	0	100	100
45	MI	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	MK	367/376 (98%)	367 (100%)	0	100	100
45	MM	369/376 (98%)	366 (99%)	3 (1%)	81	88
45	NA	370/376 (98%)	367 (99%)	3 (1%)	81	88
45	NC	366/376 (97%)	365 (100%)	1 (0%)	92	95
45	NE	370/376 (98%)	368 (100%)	2 (0%)	88	93
45	NG	366/376 (97%)	364 (100%)	2 (0%)	88	93
45	NI	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	NK	366/376 (97%)	364 (100%)	2 (0%)	88	93
45	NM	370/376 (98%)	370 (100%)	0	100	100
45	OA	366/376 (97%)	366 (100%)	0	100	100
45	OC	366/376 (97%)	366 (100%)	0	100	100
45	OE	366/376 (97%)	365 (100%)	1 (0%)	92	95
45	OG	366/376 (97%)	366 (100%)	0	100	100
45	OI	366/376 (97%)	366 (100%)	0	100	100
45	OK	366/376 (97%)	365 (100%)	1 (0%)	92	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	OM	366/376 (97%)	366 (100%)	0	100	100
45	PA	363/376 (96%)	363 (100%)	0	100	100
45	PC	363/376 (96%)	363 (100%)	0	100	100
45	PE	363/376 (96%)	363 (100%)	0	100	100
45	PG	363/376 (96%)	360 (99%)	3 (1%)	81	88
45	PI	363/376 (96%)	362 (100%)	1 (0%)	92	95
45	PK	363/376 (96%)	363 (100%)	0	100	100
45	PM	363/376 (96%)	362 (100%)	1 (0%)	92	95
45	QA	365/376 (97%)	365 (100%)	0	100	100
45	QC	365/376 (97%)	362 (99%)	3 (1%)	81	88
45	QE	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	QG	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	QI	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	QK	365/376 (97%)	362 (99%)	3 (1%)	81	88
45	QM	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	RA	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	RC	365/376 (97%)	362 (99%)	3 (1%)	81	88
45	RE	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	RG	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	RI	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	RK	365/376 (97%)	361 (99%)	4 (1%)	73	84
45	RM	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	SA	364/376 (97%)	363 (100%)	1 (0%)	92	95
45	SC	364/376 (97%)	363 (100%)	1 (0%)	92	95
45	SE	364/376 (97%)	363 (100%)	1 (0%)	92	95
45	SG	364/376 (97%)	363 (100%)	1 (0%)	92	95
45	SI	364/376 (97%)	362 (100%)	2 (0%)	88	93
45	SK	364/376 (97%)	363 (100%)	1 (0%)	92	95
45	SM	364/376 (97%)	363 (100%)	1 (0%)	92	95
45	TA	364/376 (97%)	363 (100%)	1 (0%)	92	95
45	TC	364/376 (97%)	362 (100%)	2 (0%)	88	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	TE	364/376 (97%)	362 (100%)	2 (0%)	88	93
45	TG	364/376 (97%)	363 (100%)	1 (0%)	92	95
45	TI	364/376 (97%)	363 (100%)	1 (0%)	92	95
45	TK	364/376 (97%)	364 (100%)	0	100	100
45	TM	364/376 (97%)	362 (100%)	2 (0%)	88	93
45	UA	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	UC	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	UE	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	UG	365/376 (97%)	365 (100%)	0	100	100
45	UI	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	UK	365/376 (97%)	365 (100%)	0	100	100
45	UM	365/376 (97%)	364 (100%)	1 (0%)	92	95
45	VA	367/376 (98%)	367 (100%)	0	100	100
45	VC	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	VE	367/376 (98%)	367 (100%)	0	100	100
45	VG	370/376 (98%)	369 (100%)	1 (0%)	92	95
45	VI	367/376 (98%)	365 (100%)	2 (0%)	88	93
45	VK	370/376 (98%)	370 (100%)	0	100	100
45	VM	367/376 (98%)	366 (100%)	1 (0%)	92	95
45	WA	365/376 (97%)	362 (99%)	3 (1%)	81	88
45	WC	370/376 (98%)	367 (99%)	3 (1%)	81	88
45	WE	365/376 (97%)	365 (100%)	0	100	100
45	WG	370/376 (98%)	367 (99%)	3 (1%)	81	88
45	WI	365/376 (97%)	363 (100%)	2 (0%)	88	93
45	WK	370/376 (98%)	368 (100%)	2 (0%)	88	93
45	WM	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	AB	365/376 (97%)	365 (100%)	0	100	100
46	AD	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	AF	365/376 (97%)	365 (100%)	0	100	100
46	AH	365/376 (97%)	365 (100%)	0	100	100
46	AJ	365/376 (97%)	364 (100%)	1 (0%)	92	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	AL	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	AN	365/376 (97%)	365 (100%)	0	100	100
46	BB	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	BD	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	BF	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	BH	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	BJ	365/376 (97%)	365 (100%)	0	100	100
46	BL	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	BN	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	CB	365/376 (97%)	361 (99%)	4 (1%)	73	84
46	CD	365/376 (97%)	365 (100%)	0	100	100
46	CF	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	CH	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	CJ	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	CL	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	CN	365/376 (97%)	365 (100%)	0	100	100
46	DB	365/376 (97%)	365 (100%)	0	100	100
46	DD	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	DF	365/376 (97%)	365 (100%)	0	100	100
46	DH	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	DJ	365/376 (97%)	365 (100%)	0	100	100
46	DL	365/376 (97%)	365 (100%)	0	100	100
46	DN	365/376 (97%)	365 (100%)	0	100	100
46	EB	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	ED	365/376 (97%)	365 (100%)	0	100	100
46	EF	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	EH	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	EJ	365/376 (97%)	365 (100%)	0	100	100
46	EL	365/376 (97%)	365 (100%)	0	100	100
46	EN	365/376 (97%)	365 (100%)	0	100	100
46	FB	365/376 (97%)	363 (100%)	2 (0%)	88	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	FD	365/376 (97%)	361 (99%)	4 (1%)	73	84
46	FF	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	FH	365/376 (97%)	365 (100%)	0	100	100
46	FJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	FL	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	FN	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	GB	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	GD	365/376 (97%)	365 (100%)	0	100	100
46	GF	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	GH	365/376 (97%)	365 (100%)	0	100	100
46	GJ	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	GL	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	GN	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	HB	365/376 (97%)	365 (100%)	0	100	100
46	HD	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	HF	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	HH	365/376 (97%)	365 (100%)	0	100	100
46	HJ	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	HL	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	HN	365/376 (97%)	365 (100%)	0	100	100
46	IB	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	ID	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	IF	365/376 (97%)	365 (100%)	0	100	100
46	IH	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	IJ	365/376 (97%)	361 (99%)	4 (1%)	73	84
46	IL	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	IN	365/376 (97%)	365 (100%)	0	100	100
46	JB	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	JD	365/376 (97%)	365 (100%)	0	100	100
46	JF	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	JH	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	JJ	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	JL	365/376 (97%)	365 (100%)	0	100	100
46	JN	365/376 (97%)	365 (100%)	0	100	100
46	KB	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	KD	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	KF	365/376 (97%)	365 (100%)	0	100	100
46	KH	365/376 (97%)	365 (100%)	0	100	100
46	KJ	365/376 (97%)	365 (100%)	0	100	100
46	KL	365/376 (97%)	365 (100%)	0	100	100
46	KN	365/376 (97%)	365 (100%)	0	100	100
46	LB	365/376 (97%)	365 (100%)	0	100	100
46	LD	365/376 (97%)	365 (100%)	0	100	100
46	LF	365/376 (97%)	365 (100%)	0	100	100
46	LH	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	LJ	365/376 (97%)	365 (100%)	0	100	100
46	LL	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	LN	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	MB	365/376 (97%)	365 (100%)	0	100	100
46	MD	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	MF	365/376 (97%)	365 (100%)	0	100	100
46	MH	365/376 (97%)	365 (100%)	0	100	100
46	MJ	365/376 (97%)	365 (100%)	0	100	100
46	ML	365/376 (97%)	365 (100%)	0	100	100
46	MN	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	NB	359/376 (96%)	359 (100%)	0	100	100
46	ND	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	NF	359/376 (96%)	358 (100%)	1 (0%)	92	95
46	NH	365/376 (97%)	365 (100%)	0	100	100
46	NJ	359/376 (96%)	358 (100%)	1 (0%)	92	95
46	NL	365/376 (97%)	365 (100%)	0	100	100
46	NN	359/376 (96%)	358 (100%)	1 (0%)	92	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	OB	365/376 (97%)	365 (100%)	0	100	100
46	OD	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	OF	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	OH	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	OJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	OL	365/376 (97%)	365 (100%)	0	100	100
46	ON	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	PB	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	PD	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	PF	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	PH	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	PJ	365/376 (97%)	365 (100%)	0	100	100
46	PL	365/376 (97%)	365 (100%)	0	100	100
46	PN	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	QB	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	QD	365/376 (97%)	365 (100%)	0	100	100
46	QF	365/376 (97%)	365 (100%)	0	100	100
46	QH	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	QJ	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	QL	365/376 (97%)	365 (100%)	0	100	100
46	QN	365/376 (97%)	365 (100%)	0	100	100
46	RB	365/376 (97%)	365 (100%)	0	100	100
46	RD	365/376 (97%)	365 (100%)	0	100	100
46	RF	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	RH	365/376 (97%)	365 (100%)	0	100	100
46	RJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	RL	365/376 (97%)	365 (100%)	0	100	100
46	RN	365/376 (97%)	365 (100%)	0	100	100
46	SB	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	SD	365/376 (97%)	365 (100%)	0	100	100
46	SF	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	SH	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	SJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	SL	365/376 (97%)	365 (100%)	0	100	100
46	SN	365/376 (97%)	365 (100%)	0	100	100
46	TB	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	TD	365/376 (97%)	361 (99%)	4 (1%)	73	84
46	TF	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	TH	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	TJ	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	TL	365/376 (97%)	362 (99%)	3 (1%)	81	88
46	TN	365/376 (97%)	365 (100%)	0	100	100
46	UB	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	UD	365/376 (97%)	365 (100%)	0	100	100
46	UF	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	UH	365/376 (97%)	365 (100%)	0	100	100
46	UJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	UL	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	UN	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	VB	365/376 (97%)	361 (99%)	4 (1%)	73	84
46	VD	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	VF	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	VH	365/376 (97%)	363 (100%)	2 (0%)	88	93
46	VJ	365/376 (97%)	365 (100%)	0	100	100
46	VL	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	VN	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	WB	365/376 (97%)	365 (100%)	0	100	100
46	WD	365/376 (97%)	365 (100%)	0	100	100
46	WF	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	WH	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	WJ	365/376 (97%)	364 (100%)	1 (0%)	92	95
46	WL	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	WN	365/376 (97%)	365 (100%)	0	100	100
All	All	142179/152289 (93%)	141673 (100%)	506 (0%)	91	94

All (506) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	0A	36	ARG
2	0B	150	ASN
4	0D	166	ARG
5	0E	42	LYS
5	0E	89	ARG
6	0F	106	ARG
6	0F	170	ARG
7	0G	84	HIS
7	0G	154	LYS
8	0H	401	ARG
10	0Q	100	ARG
10	0Q	124	ARG
11	0S	32	LYS
12	0T	133	LYS
12	0T	216	LYS
12	0T	224	LYS
12	0T	259	ARG
13	0U	48	GLN
13	0U	65	LYS
13	0U	193	LYS
13	0U	274	GLN
13	0U	352	ARG
13	0U	387	ARG
13	0U	449	ARG
13	0U	526	ARG
14	0V	19	LYS
14	0V	24	ARG
15	0X	78	ASN
1	1A	147	ARG
16	1B	174	ASN
16	1B	327	LYS
4	1D	166	ARG
4	1D	212	ASN
5	1E	97	LYS
5	1E	106	LYS
17	1F	113	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
17	1F	168	ARG
8	1H	32	GLN
8	1H	76	LYS
8	1H	190	LYS
8	1H	260	ARG
8	1H	288	ARG
8	1H	291	ARG
8	1H	382	ARG
18	1I	120	HIS
20	1K	169	LYS
21	1L	123	LYS
21	1L	517	ARG
21	1L	643	ARG
21	1L	698	ARG
21	1L	707	LYS
22	1M	40	LYS
22	1M	47	LYS
22	1M	183	ARG
9	1N	39	LYS
9	1N	197	LYS
23	1O	70	LYS
23	1O	158	LYS
23	1O	175	LYS
23	1O	215	LYS
23	1O	223	ARG
24	1P	89	ARG
24	1P	108	ARG
24	1P	208	LYS
24	1P	223	ARG
24	1P	293	LYS
10	1Q	100	ARG
11	1S	18	ARG
11	1S	118	ASN
12	1T	114	LYS
12	1T	199	ARG
12	1T	216	LYS
13	1U	75	LYS
13	1U	146	ARG
14	1V	158	LYS
14	1V	241	LYS
14	1V	257	LYS
1	2A	19	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	2A	147	ARG
16	2B	153	LYS
27	2C	130	ARG
4	2D	81	ARG
4	2D	135	LYS
5	2E	73	ARG
5	2E	89	ARG
31	2I	34	LYS
31	2I	132	ARG
20	2K	238	LYS
20	2K	254	LYS
20	2K	274	ASN
21	2L	282	LYS
21	2L	608	ASN
21	2L	626	ARG
21	2L	636	ARG
21	2L	698	ARG
21	2L	780	GLN
21	2L	805	LYS
21	2L	878	GLN
21	2L	933	LYS
22	2M	72	LYS
9	2N	50	ARG
9	2N	167	ARG
23	2O	223	ARG
23	2O	288	LYS
23	2O	357	ARG
23	2O	437	LYS
23	2O	439	LYS
23	2O	450	LYS
24	2P	354	LYS
24	2P	431	ARG
24	2P	440	LYS
24	2P	491	LYS
25	2R	422	LYS
11	2S	76	GLN
12	2T	12	LYS
12	2T	117	ARG
12	2T	133	LYS
12	2T	216	LYS
13	2U	75	LYS
13	2U	449	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
13	2U	543	LYS
13	2U	567	LYS
14	2V	24	ARG
14	2V	137	ASN
14	2V	257	LYS
26	2W	203	LYS
26	2W	233	ASN
15	2X	96	ARG
15	2X	111	ARG
1	3A	19	ARG
16	3B	111	ARG
5	3E	73	ARG
5	3E	131	LYS
5	3E	162	LYS
31	3I	225	ASN
21	3L	88	LYS
23	3O	341	LYS
23	3O	357	ARG
23	3O	364	LYS
23	3O	374	ARG
23	3O	403	LYS
23	3O	421	LYS
23	3O	470	LYS
10	3Q	23	GLN
25	3R	219	LYS
12	3T	114	LYS
12	3T	216	LYS
12	3T	243	LYS
13	3U	48	GLN
13	3U	75	LYS
13	3U	449	ARG
13	3U	567	LYS
14	3V	12	LYS
27	4C	109	LYS
33	4F	69	LYS
36	5A	54	ARG
36	5B	54	ARG
36	5B	110	ARG
36	5C	110	ARG
36	5D	30	LYS
36	5D	39	ARG
36	5D	87	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	5D	110	ARG
37	5E	67	ARG
37	5E	98	LYS
37	5E	164	LYS
37	5G	105	LYS
37	5G	209	ARG
37	5H	110	ARG
10	5Q	30	ARG
34	5R	212	GLN
34	5R	502	ARG
34	5R	524	LYS
35	5S	86	LYS
35	5S	153	LYS
35	5S	197	ARG
39	6F	137	MET
40	6G	93	LYS
41	6H	328	ASN
41	6H	364	ARG
41	6H	367	ARG
10	6Q	170	ARG
34	6R	69	LYS
34	6R	483	LYS
34	7R	41	LYS
34	7R	379	LYS
34	7R	543	LYS
34	7R	574	ARG
46	AD	121	ARG
45	AG	2	ARG
45	AI	326	LYS
46	AJ	245	GLN
46	AL	298	ASN
45	AM	2	ARG
45	BA	2	ARG
46	BB	276	ARG
45	BC	2	ARG
45	BC	320	ARG
46	BD	347	ASN
46	BF	347	ASN
46	BH	347	ASN
46	BL	247	ASN
46	BL	347	ASN
45	BM	268	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	BM	430	LYS
46	BN	298	ASN
46	BN	359	LYS
46	CB	213	ARG
46	CB	276	ARG
46	CB	347	ASN
46	CB	359	LYS
45	CC	2	ARG
46	CF	347	ASN
46	CF	359	LYS
45	CG	2	ARG
45	CG	128	ASN
45	CG	342	GLN
46	CH	73	MET
46	CH	414	ASN
46	CJ	347	ASN
46	CJ	379	LYS
45	CK	50	ASN
46	CL	320	ARG
46	DD	200	MET
45	DE	268	MET
45	DG	2	ARG
45	DG	221	ARG
46	DH	73	MET
45	DI	133	GLN
45	DI	233	GLN
45	DK	233	GLN
45	DK	373	ARG
45	DM	326	LYS
45	EA	326	LYS
46	EB	298	ASN
46	EB	320	ARG
45	EC	380	ASN
45	EE	233	GLN
46	EF	306	ARG
46	EH	306	ARG
45	EI	31	GLN
45	EI	304	LYS
45	EI	326	LYS
45	EM	233	GLN
45	EM	308	ARG
46	FB	216	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	FB	241	ARG
46	FD	200	MET
46	FD	276	ARG
46	FD	321	MET
46	FD	359	LYS
46	FF	241	ARG
46	FF	276	ARG
45	FI	326	LYS
46	FJ	276	ARG
45	FK	11	GLN
46	FL	321	MET
45	FM	326	LYS
46	FN	390	ARG
45	GA	2	ARG
45	GA	243	ARG
45	GA	422	ARG
46	GB	276	ARG
46	GB	334	GLN
45	GC	2	ARG
45	GC	18	ASN
45	GC	309	HIS
45	GC	370	LYS
46	GF	122	LYS
46	GF	347	ASN
45	GG	2	ARG
45	GG	123	ARG
45	GI	2	ARG
45	GI	339	ARG
46	GJ	276	ARG
46	GJ	347	ASN
46	GL	320	ARG
45	GM	268	MET
45	GM	326	LYS
46	GN	122	LYS
46	GN	216	LYS
45	HA	243	ARG
45	HA	390	ARG
46	HD	359	LYS
45	HE	128	ASN
45	HE	221	ARG
46	HF	347	ASN
45	HG	304	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	HG	390	ARG
46	HJ	279	GLN
46	HJ	359	LYS
45	HK	2	ARG
46	HL	347	ASN
45	HM	226	ASN
45	HM	326	LYS
45	IA	2	ARG
46	IB	227	HIS
45	IC	370	LYS
46	ID	48	ASN
45	IE	2	ARG
45	IG	370	LYS
46	IH	347	ASN
45	II	339	ARG
45	II	370	LYS
46	IJ	37	HIS
46	IJ	247	ASN
46	IJ	320	ARG
46	IJ	347	ASN
45	IK	268	MET
45	IK	280	LYS
46	IL	291	GLN
46	IL	347	ASN
45	IM	326	LYS
45	JA	308	ARG
46	JB	414	ASN
45	JC	2	ARG
45	JC	300	ASN
45	JE	11	GLN
46	JF	86	ARG
46	JJ	11	GLN
46	JJ	77	ARG
45	JK	11	GLN
45	JK	215	ARG
45	KA	422	ARG
46	KB	380	ARG
45	KC	308	ARG
46	KD	309	ARG
45	KE	2	ARG
45	KE	221	ARG
45	KE	300	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	KI	128	ASN
45	KI	163	LYS
45	KI	221	ARG
45	KI	339	ARG
45	KI	372	MET
45	KK	300	ASN
45	KM	215	ARG
45	KM	326	LYS
45	LA	221	ARG
45	LA	326	LYS
45	LE	2	ARG
45	LE	326	LYS
46	LH	19	LYS
46	LH	298	ASN
45	LI	326	LYS
46	LL	298	ASN
45	LM	133	GLN
45	LM	163	LYS
45	LM	326	LYS
46	LN	247	ASN
45	MA	40	LYS
45	MA	380	ASN
45	MC	221	ARG
46	MD	122	LYS
45	MI	280	LYS
45	MM	40	LYS
45	MM	233	GLN
45	MM	308	ARG
46	MN	347	ASN
45	NA	249	ASN
45	NA	285	GLN
45	NA	373	ARG
45	NC	373	ARG
46	ND	390	ARG
45	NE	2	ARG
45	NE	304	LYS
46	NF	347	ASN
45	NG	64	ARG
45	NG	390	ARG
45	NI	2	ARG
46	NJ	336	LYS
45	NK	214	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	NK	373	ARG
46	NN	306	ARG
46	OD	122	LYS
45	OE	15	GLN
46	OF	58	ARG
46	OF	306	ARG
46	OH	282	ARG
46	OJ	298	ASN
45	OK	430	LYS
46	ON	320	ARG
46	PB	347	ASN
46	PD	320	ARG
46	PD	347	ASN
46	PF	347	ASN
45	PG	133	GLN
45	PG	163	LYS
45	PG	370	LYS
46	PH	276	ARG
45	PI	2	ARG
45	PM	326	LYS
46	PN	380	ARG
46	QB	347	ASN
45	QC	163	LYS
45	QC	233	GLN
45	QC	339	ARG
45	QE	233	GLN
45	QE	317	MET
45	QG	233	GLN
46	QH	414	ASN
45	QI	233	GLN
46	QJ	200	MET
46	QJ	347	ASN
45	QK	163	LYS
45	QK	233	GLN
45	QK	372	MET
45	QM	304	LYS
45	QM	326	LYS
45	RA	326	LYS
45	RC	233	GLN
45	RC	326	LYS
45	RC	402	ARG
45	RE	233	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	RF	350	LYS
45	RG	233	GLN
45	RG	339	ARG
45	RI	233	GLN
45	RI	326	LYS
46	RJ	227	HIS
45	RK	2	ARG
45	RK	233	GLN
45	RK	326	LYS
45	RK	370	LYS
45	RM	233	GLN
45	RM	326	LYS
45	SA	326	LYS
46	SB	121	ARG
46	SB	298	ASN
45	SC	326	LYS
45	SE	84	ARG
45	SG	326	LYS
46	SH	182	PRO
45	SI	2	ARG
45	SI	372	MET
46	SJ	298	ASN
45	SK	2	ARG
45	SM	326	LYS
45	TA	326	LYS
46	TB	241	ARG
45	TC	84	ARG
45	TC	326	LYS
46	TD	122	LYS
46	TD	297	LYS
46	TD	320	ARG
46	TD	321	MET
45	TE	84	ARG
45	TE	402	ARG
46	TF	122	LYS
45	TG	2	ARG
46	TH	122	LYS
45	TI	326	LYS
46	TJ	122	LYS
46	TJ	276	ARG
46	TL	121	ARG
46	TL	137	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	TL	241	ARG
45	TM	2	ARG
45	TM	329	ASN
45	UA	221	ARG
46	UB	122	LYS
45	UC	370	LYS
45	UE	2	ARG
45	UE	112	LYS
46	UF	320	ARG
45	UI	2	ARG
46	UJ	103	LYS
46	UL	131	GLN
45	UM	2	ARG
46	UN	390	ARG
46	VB	267	MET
46	VB	297	LYS
46	VB	320	ARG
46	VB	380	ARG
45	VC	2	ARG
46	VD	162	ARG
46	VD	276	ARG
46	VF	347	ASN
45	VG	2	ARG
46	VH	267	MET
46	VH	276	ARG
45	VI	128	ASN
45	VI	280	LYS
46	VL	58	ARG
45	VM	326	LYS
46	VN	321	MET
45	WA	2	ARG
45	WA	60	LYS
45	WA	133	GLN
45	WC	2	ARG
45	WC	163	LYS
45	WC	373	ARG
46	WF	276	ARG
45	WG	2	ARG
45	WG	40	LYS
45	WG	163	LYS
46	WH	324	LYS
45	WI	163	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	WI	329	ASN
46	WJ	414	ASN
45	WK	163	LYS
45	WK	221	ARG
45	WM	326	LYS
45	DC	18	ASN
45	DC	233	GLN
45	DC	339	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (763) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	0A	3	GLN
1	0A	14	GLN
1	0A	91	ASN
2	0B	150	ASN
3	0C	70	HIS
3	0C	98	GLN
4	0D	79	GLN
5	0E	69	GLN
6	0F	61	ASN
7	0G	21	ASN
7	0G	77	ASN
9	0N	231	GLN
9	0N	269	GLN
9	0N	270	ASN
11	0S	33	ASN
11	0S	235	GLN
11	0S	260	ASN
12	0T	232	HIS
13	0U	48	GLN
13	0U	292	HIS
13	0U	587	GLN
14	0V	64	HIS
14	0V	96	ASN
15	0X	41	GLN
1	1A	23	HIS
16	1B	19	HIS
16	1B	123	GLN
16	1B	341	GLN
3	1C	98	GLN
4	1D	95	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	1D	113	GLN
5	1E	95	GLN
17	1F	21	GLN
17	1F	113	ASN
8	1H	151	GLN
8	1H	227	GLN
8	1H	232	GLN
8	1H	233	GLN
18	1I	214	GLN
19	1J	175	HIS
19	1J	413	GLN
20	1K	223	ASN
21	1L	276	GLN
21	1L	594	GLN
23	1O	268	ASN
24	1P	144	GLN
24	1P	189	HIS
24	1P	225	GLN
24	1P	337	GLN
24	1P	377	GLN
10	1Q	4	ASN
10	1Q	131	GLN
25	1R	516	GLN
11	1S	150	GLN
11	1S	266	ASN
13	1U	81	GLN
13	1U	547	HIS
14	1V	141	ASN
26	1W	237	HIS
26	1W	244	ASN
15	1X	78	ASN
1	2A	136	ASN
27	2C	219	GLN
4	2D	72	GLN
29	2G	42	ASN
31	2I	61	GLN
20	2K	291	GLN
20	2K	387	GLN
21	2L	305	GLN
21	2L	745	ASN
21	2L	750	ASN
21	2L	789	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
21	2L	878	GLN
9	2N	88	ASN
9	2N	224	GLN
9	2N	231	GLN
23	2O	130	GLN
23	2O	213	GLN
23	2O	367	GLN
23	2O	396	GLN
23	2O	404	GLN
23	2O	418	GLN
24	2P	394	GLN
24	2P	395	GLN
24	2P	423	GLN
24	2P	439	HIS
10	2Q	131	GLN
25	2R	312	GLN
25	2R	447	GLN
25	2R	473	GLN
11	2S	8	GLN
11	2S	24	GLN
11	2S	150	GLN
12	2T	232	HIS
13	2U	316	ASN
13	2U	392	GLN
14	2V	137	ASN
14	2V	141	ASN
26	2W	215	HIS
26	2W	271	GLN
15	2X	97	GLN
1	3A	136	ASN
16	3B	12	ASN
16	3B	106	GLN
16	3B	123	GLN
16	3B	220	GLN
27	3C	49	GLN
27	3C	101	GLN
27	3C	123	HIS
5	3E	105	GLN
5	3E	153	ASN
10	3Q	4	ASN
10	3Q	131	GLN
25	3R	64	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	3R	215	ASN
25	3R	289	ASN
25	3R	447	GLN
11	3S	8	GLN
11	3S	10	ASN
11	3S	115	GLN
11	3S	161	GLN
11	3S	164	GLN
12	3T	234	ASN
13	3U	48	GLN
13	3U	351	ASN
13	3U	547	HIS
13	3U	587	GLN
14	3V	141	ASN
33	4F	152	GLN
30	4H	205	GLN
34	4R	128	HIS
35	4S	122	GLN
35	4S	208	GLN
15	4X	41	GLN
15	4X	89	ASN
15	4X	97	GLN
36	5A	90	GLN
36	5B	149	ASN
36	5C	90	GLN
36	5C	142	GLN
36	5D	90	GLN
37	5F	13	ASN
10	5Q	4	ASN
34	5R	15	HIS
34	5R	106	ASN
34	5R	438	ASN
35	5S	81	HIS
39	6F	97	GLN
41	6H	326	HIS
34	6R	30	GLN
34	6R	43	ASN
34	6R	153	GLN
34	6R	272	ASN
34	7R	497	GLN
45	AA	11	GLN
45	AA	15	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	AA	258	ASN
46	AB	100	ASN
46	AB	245	GLN
46	AB	279	GLN
46	AB	375	GLN
46	AB	426	GLN
45	AC	28	HIS
45	AC	283	HIS
46	AD	256	ASN
45	AE	285	GLN
46	AF	6	HIS
46	AF	8	GLN
46	AF	37	HIS
46	AF	256	ASN
46	AF	279	GLN
46	AF	347	ASN
46	AF	426	GLN
45	AG	11	GLN
45	AG	133	GLN
46	AJ	245	GLN
46	AJ	414	ASN
45	AM	11	GLN
45	AM	88	HIS
46	AN	8	GLN
46	AN	190	HIS
46	AN	245	GLN
46	AN	279	GLN
46	AN	414	ASN
45	BA	107	HIS
45	BA	258	ASN
46	BB	100	ASN
45	BC	15	GLN
45	BC	88	HIS
46	BD	37	HIS
46	BD	83	GLN
46	BD	247	ASN
45	BE	329	ASN
45	BG	300	ASN
46	BH	131	GLN
46	BH	134	GLN
45	BI	329	ASN
46	BJ	414	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	BK	8	HIS
45	BK	88	HIS
45	BK	91	GLN
46	BL	134	GLN
46	BL	190	HIS
46	BL	247	ASN
46	BL	279	GLN
45	BM	88	HIS
46	BN	8	GLN
46	CB	8	GLN
46	CB	190	HIS
46	CD	191	GLN
46	CD	347	ASN
46	CD	414	ASN
46	CF	8	GLN
46	CF	134	GLN
46	CF	191	GLN
46	CF	256	ASN
45	CG	101	ASN
46	CH	8	GLN
46	CH	43	GLN
46	CH	134	GLN
46	CH	280	GLN
46	CH	384	GLN
45	CI	283	HIS
46	CJ	227	HIS
46	CJ	256	ASN
46	CJ	280	GLN
45	CK	133	GLN
45	CK	258	ASN
46	CL	99	ASN
46	CL	414	ASN
46	CN	100	ASN
45	DA	61	HIS
45	DA	258	ASN
46	DB	100	ASN
46	DB	190	HIS
46	DB	347	ASN
46	DD	8	GLN
46	DD	298	ASN
46	DD	414	ASN
45	DE	85	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	DE	258	ASN
46	DF	204	ASN
46	DH	37	HIS
46	DH	48	ASN
46	DJ	8	GLN
46	DJ	329	GLN
45	DK	258	ASN
46	DL	43	GLN
46	DL	94	GLN
46	DL	190	HIS
46	DL	191	GLN
46	DL	329	GLN
45	DM	206	ASN
45	DM	380	ASN
46	DN	100	ASN
46	EB	100	ASN
46	EB	334	GLN
46	EB	335	ASN
45	EC	50	ASN
46	ED	8	GLN
46	ED	15	GLN
46	ED	245	GLN
45	EE	91	GLN
46	EF	15	GLN
46	EH	8	GLN
46	EH	14	ASN
46	EH	191	GLN
46	EH	292	GLN
46	EJ	6	HIS
46	EJ	8	GLN
46	EJ	134	GLN
45	EK	8	HIS
46	EL	15	GLN
46	EN	15	GLN
45	FA	15	GLN
45	FC	8	HIS
45	FC	11	GLN
45	FC	61	HIS
46	FD	94	GLN
45	FE	11	GLN
45	FE	102	ASN
45	FE	192	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	FF	190	HIS
46	FF	280	GLN
45	FG	11	GLN
45	FG	15	GLN
46	FH	280	GLN
46	FH	298	ASN
45	FI	256	GLN
45	FI	329	ASN
46	FJ	292	GLN
45	FK	342	GLN
46	FL	190	HIS
45	FM	88	HIS
46	FN	15	GLN
46	FN	134	GLN
46	FN	137	HIS
46	FN	191	GLN
45	GA	192	HIS
46	GB	100	ASN
46	GD	190	HIS
46	GD	332	ASN
46	GD	347	ASN
46	GD	414	ASN
45	GE	15	GLN
45	GG	11	GLN
45	GG	91	GLN
45	GG	258	ASN
46	GH	190	HIS
46	GH	191	GLN
45	GI	11	GLN
45	GI	15	GLN
45	GI	31	GLN
45	GI	102	ASN
45	GI	285	GLN
46	GJ	6	HIS
45	GK	192	HIS
46	GL	347	ASN
46	GN	100	ASN
46	GN	375	GLN
46	HB	100	ASN
45	HE	91	GLN
45	HE	101	ASN
46	HF	190	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	HH	43	GLN
46	HH	100	ASN
46	HH	190	HIS
46	HH	256	ASN
45	HI	85	GLN
45	HI	329	ASN
46	HJ	190	HIS
46	HJ	414	ASN
45	HK	15	GLN
45	HK	91	GLN
45	HK	256	GLN
46	HL	8	GLN
46	HL	332	ASN
46	HL	414	ASN
45	HM	11	GLN
46	HN	99	ASN
46	HN	100	ASN
46	HN	291	GLN
46	HN	329	GLN
46	IB	100	ASN
46	IB	134	GLN
46	IB	291	GLN
45	IC	342	GLN
46	ID	264	HIS
45	IE	101	ASN
45	IE	258	ASN
46	IH	6	HIS
46	IH	100	ASN
46	IH	329	GLN
45	II	50	ASN
46	IJ	6	HIS
46	IJ	8	GLN
46	IL	48	ASN
46	IL	414	ASN
45	IM	28	HIS
46	IN	8	GLN
46	IN	14	ASN
46	IN	134	GLN
46	JB	8	GLN
46	JB	190	HIS
46	JB	414	ASN
45	JC	101	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	JD	414	ASN
45	JE	31	GLN
45	JE	258	ASN
45	JG	88	HIS
45	JG	197	HIS
46	JH	6	HIS
46	JH	134	GLN
45	JI	88	HIS
46	JJ	134	GLN
45	JK	91	GLN
45	JK	101	ASN
45	JK	256	GLN
46	JL	227	HIS
46	JL	414	ASN
45	JM	8	HIS
46	JN	191	GLN
46	JN	329	GLN
46	JN	347	ASN
46	JN	414	ASN
45	KA	15	GLN
45	KA	61	HIS
46	KB	6	HIS
46	KB	15	GLN
46	KB	426	GLN
46	KD	298	ASN
45	KE	35	GLN
45	KE	283	HIS
46	KF	332	ASN
46	KF	334	GLN
46	KF	347	ASN
45	KG	258	ASN
46	KH	6	HIS
46	KH	134	GLN
46	KH	298	ASN
45	KI	293	ASN
46	KJ	334	GLN
46	KJ	347	ASN
46	KJ	423	GLN
45	KK	50	ASN
45	KK	128	ASN
45	KK	226	ASN
45	KM	50	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	KM	309	HIS
46	KN	6	HIS
46	KN	334	GLN
45	LA	11	GLN
45	LA	283	HIS
46	LB	227	HIS
46	LB	334	GLN
45	LC	11	GLN
46	LD	279	GLN
46	LD	414	ASN
46	LD	423	GLN
45	LE	283	HIS
46	LF	247	ASN
46	LF	334	GLN
46	LH	279	GLN
46	LH	334	GLN
46	LJ	48	ASN
46	LJ	334	GLN
45	LK	11	GLN
45	LK	393	HIS
46	LL	190	HIS
46	LL	414	ASN
46	LN	334	GLN
45	MA	249	ASN
46	MB	137	HIS
46	MB	191	GLN
46	MB	279	GLN
46	MB	423	GLN
46	MB	424	GLN
45	MC	258	ASN
46	MD	191	GLN
46	MD	414	ASN
45	ME	11	GLN
45	ME	91	GLN
46	MF	37	HIS
46	MF	99	ASN
45	MG	11	GLN
45	MG	31	GLN
45	MG	85	GLN
46	MJ	11	GLN
46	MJ	247	ASN
46	MJ	414	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	MK	11	GLN
45	MK	256	GLN
45	MK	258	ASN
46	ML	134	GLN
46	ML	190	HIS
46	ML	414	ASN
45	MM	101	ASN
46	MN	8	GLN
46	MN	11	GLN
46	MN	14	ASN
45	NA	192	HIS
46	NB	245	GLN
45	NC	91	GLN
46	ND	426	GLN
45	NE	283	HIS
46	NF	8	GLN
46	NF	291	GLN
46	NF	414	ASN
46	NH	307	HIS
45	NI	192	HIS
45	NI	342	GLN
46	NJ	8	GLN
46	NJ	43	GLN
46	NJ	191	GLN
46	NJ	256	ASN
46	NJ	414	ASN
45	NK	8	HIS
45	NK	28	HIS
45	NK	91	GLN
46	NL	8	GLN
46	NL	134	GLN
46	NL	190	HIS
46	NL	245	GLN
46	NL	307	HIS
46	NL	424	GLN
45	NM	15	GLN
46	NN	8	GLN
46	NN	14	ASN
45	OA	15	GLN
46	OB	226	ASN
46	OB	256	ASN
46	OB	332	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	OC	285	GLN
45	OE	216	ASN
45	OE	285	GLN
45	OE	329	ASN
46	OF	8	GLN
46	OF	134	GLN
46	OF	227	HIS
46	OF	332	ASN
46	OF	347	ASN
45	OG	192	HIS
46	OH	131	GLN
46	OH	134	GLN
46	OH	279	GLN
45	OI	8	HIS
45	OI	88	HIS
46	OJ	14	ASN
46	OJ	37	HIS
46	OJ	89	ASN
46	OJ	134	GLN
46	OJ	227	HIS
46	OJ	245	GLN
46	OJ	332	ASN
45	OK	15	GLN
46	OL	134	GLN
46	OL	247	ASN
46	OL	347	ASN
46	ON	6	HIS
46	ON	134	GLN
46	ON	227	HIS
46	ON	332	ASN
45	PA	15	GLN
46	PB	100	ASN
45	PC	15	GLN
45	PC	31	GLN
46	PD	8	GLN
46	PD	15	GLN
46	PD	100	ASN
46	PD	131	GLN
46	PD	191	GLN
46	PD	227	HIS
46	PD	256	ASN
45	PE	88	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	PE	133	GLN
46	PF	191	GLN
45	PG	128	ASN
46	PH	347	ASN
45	PI	258	ASN
46	PJ	190	HIS
45	PK	101	ASN
45	PK	256	GLN
46	PL	14	ASN
46	PL	89	ASN
46	PL	134	GLN
45	PM	233	GLN
46	PN	48	ASN
46	PN	131	GLN
46	PN	191	GLN
46	PN	384	GLN
46	PN	414	ASN
45	QA	128	ASN
45	QA	228	ASN
46	QB	15	GLN
46	QB	191	GLN
46	QB	414	ASN
45	QC	15	GLN
46	QD	15	GLN
46	QD	292	GLN
46	QD	347	ASN
46	QD	414	ASN
45	QE	15	GLN
45	QE	88	HIS
45	QE	258	ASN
46	QF	99	ASN
46	QF	292	GLN
46	QF	329	GLN
46	QF	375	GLN
45	QG	15	GLN
46	QH	11	GLN
46	QH	134	GLN
45	QI	11	GLN
45	QI	101	ASN
46	QJ	99	ASN
45	QK	31	GLN
45	QK	88	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	QK	258	ASN
46	QL	8	GLN
46	QL	11	GLN
46	QL	134	GLN
46	QL	347	ASN
46	QL	414	ASN
45	QM	15	GLN
45	QM	258	ASN
46	QN	100	ASN
45	RA	258	ASN
46	RB	100	ASN
46	RB	191	GLN
45	RC	15	GLN
46	RD	11	GLN
45	RE	8	HIS
45	RE	11	GLN
45	RE	15	GLN
46	RF	11	GLN
46	RF	15	GLN
46	RF	226	ASN
46	RF	375	GLN
45	RG	8	HIS
45	RG	15	GLN
46	RH	6	HIS
46	RH	8	GLN
46	RH	15	GLN
46	RH	190	HIS
45	RI	11	GLN
45	RI	31	GLN
46	RJ	8	GLN
46	RJ	11	GLN
46	RJ	15	GLN
46	RJ	347	ASN
45	RK	8	HIS
45	RK	15	GLN
45	RK	329	ASN
46	RL	6	HIS
46	RL	15	GLN
45	RM	8	HIS
45	RM	283	HIS
46	RN	100	ASN
46	SB	8	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	SB	14	ASN
46	SB	43	GLN
46	SB	134	GLN
45	SC	28	HIS
45	SC	91	GLN
46	SD	6	HIS
46	SD	8	GLN
46	SD	190	HIS
45	SE	11	GLN
45	SE	15	GLN
46	SF	298	ASN
45	SG	11	GLN
45	SG	15	GLN
45	SG	101	ASN
45	SG	192	HIS
45	SG	256	GLN
46	SH	6	HIS
46	SJ	11	GLN
45	SK	18	ASN
45	SK	258	ASN
46	SL	6	HIS
46	SL	43	GLN
46	SL	195	ASN
46	SL	347	ASN
46	SL	375	GLN
46	TB	100	ASN
46	TB	137	HIS
45	TC	28	HIS
45	TC	31	GLN
45	TC	88	HIS
45	TC	133	GLN
45	TC	258	ASN
46	TD	256	ASN
46	TF	256	ASN
46	TF	396	HIS
45	TG	11	GLN
45	TG	15	GLN
45	TG	283	HIS
46	TH	8	GLN
46	TH	43	GLN
46	TH	100	ASN
45	TI	11	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	TI	15	GLN
45	TI	88	HIS
45	TI	101	ASN
45	TI	283	HIS
45	TK	11	GLN
45	TK	283	HIS
46	TL	8	GLN
46	TL	256	ASN
46	TL	280	GLN
45	TM	11	GLN
45	TM	192	HIS
45	TM	380	ASN
46	TN	100	ASN
46	UB	131	GLN
46	UB	134	GLN
46	UB	245	GLN
46	UB	334	GLN
46	UB	375	GLN
45	UC	15	GLN
46	UD	396	HIS
46	UF	131	GLN
46	UF	190	HIS
45	UG	258	ASN
45	UG	283	HIS
46	UJ	256	ASN
45	UK	85	GLN
45	UK	91	GLN
45	UK	101	ASN
45	UK	285	GLN
45	UM	176	GLN
45	UM	233	GLN
45	UM	283	HIS
46	UN	8	GLN
46	UN	37	HIS
46	UN	134	GLN
46	UN	227	HIS
46	UN	414	ASN
45	VA	88	HIS
45	VA	233	GLN
46	VB	11	GLN
46	VB	14	ASN
46	VB	131	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	VB	245	GLN
46	VB	332	ASN
45	VC	31	GLN
45	VC	258	ASN
45	VE	88	HIS
45	VE	91	GLN
45	VE	101	ASN
45	VE	206	ASN
46	VF	100	ASN
46	VF	256	ASN
45	VG	31	GLN
45	VG	293	ASN
46	VH	99	ASN
46	VJ	14	ASN
46	VJ	134	GLN
46	VL	14	ASN
46	VL	99	ASN
46	VL	134	GLN
45	VM	11	GLN
45	VM	226	ASN
45	VM	406	HIS
46	VN	8	GLN
46	VN	83	GLN
46	VN	131	GLN
46	VN	134	GLN
46	VN	414	ASN
45	WA	258	ASN
45	WA	285	GLN
46	WB	83	GLN
46	WB	100	ASN
46	WB	190	HIS
46	WB	191	GLN
46	WB	347	ASN
46	WB	414	ASN
45	WC	133	GLN
45	WC	283	HIS
45	WC	329	ASN
46	WD	329	GLN
46	WD	347	ASN
46	WD	375	GLN
45	WE	197	HIS
46	WF	48	ASN

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Mol	Chain	Res	Type
46	WF	191	GLN
45	WG	128	ASN
46	WH	190	HIS
46	WH	414	ASN
45	WI	31	GLN
45	WI	101	ASN
46	WJ	94	GLN
46	WJ	99	ASN
46	WJ	134	GLN
46	WJ	191	GLN
45	WK	101	ASN
46	WL	99	ASN
46	WL	227	HIS
46	WL	375	GLN
46	WL	384	GLN
46	WN	8	GLN
46	WN	100	ASN
45	DC	258	ASN
45	DC	283	HIS

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

### 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 5.6 Ligand geometry [i](#)

Of 483 ligands modelled in this entry, 161 are monoatomic - leaving 322 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the



expected value. A bond length (or angle) with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z  > 2$	Counts	RMSZ	# $ Z  > 2$
47	GTP	RK	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.60	7 (21%)
47	GTP	AE	501	48	26,34,34	1.18	2 (7%)	32,54,54	1.63	7 (21%)
49	GDP	LL	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.37	4 (13%)
49	GDP	PF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
47	GTP	QG	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.52	8 (25%)
49	GDP	DL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
49	GDP	QD	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.30	4 (13%)
47	GTP	VI	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.60	7 (21%)
49	GDP	EN	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.27	4 (13%)
47	GTP	DK	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.53	7 (21%)
49	GDP	QB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	TC	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.59	6 (18%)
47	GTP	PD	501	46,48	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
49	GDP	BD	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
47	GTP	EK	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.59	7 (21%)
47	GTP	VG	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.64	7 (21%)
47	GTP	UI	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
49	GDP	QH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.27	4 (13%)
49	GDP	AD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.37	4 (13%)
49	GDP	DF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.26	4 (13%)
49	GDP	FD	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.38	4 (13%)
47	GTP	TM	501	48	26,34,34	1.12	2 (7%)	32,54,54	1.57	6 (18%)
47	GTP	BG	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.65	7 (21%)
47	GTP	AK	501	48	26,34,34	1.20	2 (7%)	32,54,54	1.60	7 (21%)
47	GTP	TG	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.56	7 (21%)
47	GTP	JE	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.69	7 (21%)
49	GDP	OF	502	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
47	GTP	NC	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
49	GDP	JN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
47	GTP	MC	501	48	26,34,34	1.18	2 (7%)	32,54,54	1.63	7 (21%)
47	GTP	GI	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.61	7 (21%)
49	GDP	SJ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	5 (16%)
49	GDP	UJ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.30	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
47	GTP	OA	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.56	7 (21%)
47	GTP	PG	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.61	6 (18%)
49	GDP	QN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	OC	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.54	7 (21%)
47	GTP	GM	501	48	26,34,34	1.11	2 (7%)	32,54,54	1.55	7 (21%)
49	GDP	JJ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	4 (13%)
47	GTP	KI	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.65	7 (21%)
49	GDP	DJ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
49	GDP	UH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
49	GDP	OL	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.33	4 (13%)
49	GDP	MD	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.42	4 (13%)
49	GDP	QF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.28	4 (13%)
47	GTP	SM	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.54	7 (21%)
47	GTP	SC	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.56	7 (21%)
47	GTP	NM	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.52	7 (21%)
49	GDP	IN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.37	4 (13%)
47	GTP	IA	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.57	7 (21%)
49	GDP	VH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.36	4 (13%)
49	GDP	VB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
47	GTP	GA	501	48	26,34,34	1.12	2 (7%)	32,54,54	1.60	7 (21%)
49	GDP	ML	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
47	GTP	BA	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.58	6 (18%)
49	GDP	OJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
47	GTP	UC	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.62	7 (21%)
47	GTP	VC	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.60	6 (18%)
49	GDP	NB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
49	GDP	PD	502	-	24,30,30	0.93	1 (4%)	30,47,47	1.27	4 (13%)
49	GDP	FJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
49	GDP	LD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.39	4 (13%)
49	GDP	IJ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	JM	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.59	7 (21%)
47	GTP	DG	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.59	7 (21%)
49	GDP	MN	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.33	4 (13%)
49	GDP	PB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	VK	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.54	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
47	GTP	RI	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.59	7 (21%)
47	GTP	FK	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.60	7 (21%)
47	GTP	BK	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.63	7 (21%)
49	GDP	CD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
49	GDP	BB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	OM	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.54	7 (21%)
47	GTP	VA	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.61	6 (18%)
47	GTP	WE	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.62	6 (18%)
47	GTP	FM	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.54	7 (21%)
47	GTP	CG	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.61	7 (21%)
47	GTP	DM	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.58	7 (21%)
47	GTP	FE	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.64	7 (21%)
49	GDP	NL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
47	GTP	OK	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.57	7 (21%)
49	GDP	BN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.38	4 (13%)
47	GTP	HM	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.53	7 (21%)
47	GTP	ME	501	48	26,34,34	1.20	2 (7%)	32,54,54	1.63	7 (21%)
47	GTP	WG	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.61	7 (21%)
49	GDP	FN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
47	GTP	DC	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.57	7 (21%)
47	GTP	QE	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.58	7 (21%)
47	GTP	VM	501	48	26,34,34	1.12	2 (7%)	32,54,54	1.55	7 (21%)
47	GTP	UE	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.64	7 (21%)
47	GTP	UM	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.57	7 (21%)
49	GDP	ID	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.36	4 (13%)
47	GTP	KK	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.64	7 (21%)
47	GTP	OG	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
47	GTP	MK	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.63	7 (21%)
49	GDP	PN	502	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
47	GTP	QK	501	48	26,34,34	1.18	2 (7%)	32,54,54	1.57	7 (21%)
49	GDP	QJ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	4 (13%)
47	GTP	UA	501	48	26,34,34	1.12	2 (7%)	32,54,54	1.56	7 (21%)
47	GTP	BI	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.63	7 (21%)
49	GDP	EF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
49	GDP	TB	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.34	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
47	GTP	NK	501	48	26,34,34	1.18	2 (7%)	32,54,54	1.63	7 (21%)
47	GTP	SI	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.58	7 (21%)
49	GDP	VN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
47	GTP	BC	502	48	26,34,34	1.16	2 (7%)	32,54,54	1.63	7 (21%)
47	GTP	GE	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.67	7 (21%)
49	GDP	RJ	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.31	4 (13%)
49	GDP	IH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.27	4 (13%)
47	GTP	KC	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.61	7 (21%)
47	GTP	AG	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.66	7 (21%)
47	GTP	MI	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.62	7 (21%)
47	GTP	MM	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.62	7 (21%)
49	GDP	RB	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.31	4 (13%)
49	GDP	GN	502	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
49	GDP	AB	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.38	5 (16%)
49	GDP	IF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.36	4 (13%)
49	GDP	AH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
47	GTP	GG	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.64	7 (21%)
49	GDP	MF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
49	GDP	KN	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.33	4 (13%)
49	GDP	GB	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
47	GTP	BE	501	48	26,34,34	1.18	2 (7%)	32,54,54	1.62	7 (21%)
47	GTP	NI	501	48	26,34,34	1.18	2 (7%)	32,54,54	1.55	7 (21%)
49	GDP	RH	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.29	4 (13%)
49	GDP	DB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	JC	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.49	6 (18%)
49	GDP	LB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
49	GDP	SF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.40	4 (13%)
49	GDP	UF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.36	4 (13%)
49	GDP	TH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
49	GDP	RN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
49	GDP	HN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
47	GTP	LI	501	48	26,34,34	1.18	2 (7%)	32,54,54	1.63	7 (21%)
47	GTP	KA	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.61	7 (21%)
47	GTP	CI	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.63	7 (21%)
47	GTP	QA	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.56	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
47	GTP	UK	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.59	7 (21%)
49	GDP	UD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
49	GDP	HF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
49	GDP	MH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
49	GDP	TD	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.34	4 (13%)
49	GDP	NH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
49	GDP	LN	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.39	4 (13%)
47	GTP	SK	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
49	GDP	KL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.38	4 (13%)
47	GTP	WI	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.62	7 (21%)
49	GDP	HH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
47	GTP	IM	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.60	6 (18%)
47	GTP	EM	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.50	6 (18%)
49	GDP	FB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	KG	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.62	7 (21%)
49	GDP	PJ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	JK	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.54	7 (21%)
47	GTP	RG	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.57	7 (21%)
49	GDP	TF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
49	GDP	MJ	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.31	5 (16%)
49	GDP	EL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
47	GTP	JI	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.65	6 (18%)
49	GDP	GL	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.33	4 (13%)
49	GDP	CN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	KM	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.62	7 (21%)
47	GTP	FC	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.63	7 (21%)
47	GTP	CE	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.63	6 (18%)
49	GDP	BL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	4 (13%)
49	GDP	NN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
47	GTP	SG	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.60	7 (21%)
49	GDP	SH	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.35	5 (16%)
49	GDP	SN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
49	GDP	TN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	QM	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.59	7 (21%)
49	GDP	GD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
47	GTP	CA	501	48	26,34,34	1.12	2 (7%)	32,54,54	1.56	7 (21%)
49	GDP	HD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
49	GDP	WL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.37	4 (13%)
47	GTP	QC	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.59	7 (21%)
47	GTP	FI	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.66	7 (21%)
49	GDP	WD	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
47	GTP	BM	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.62	7 (21%)
49	GDP	HB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	OF	501	46,48	26,34,34	1.16	2 (7%)	32,54,54	1.57	7 (21%)
49	GDP	BF	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.36	4 (13%)
49	GDP	WB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
47	GTP	GK	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.64	7 (21%)
49	GDP	BJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.38	4 (13%)
47	GTP	TE	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.61	7 (21%)
47	GTP	IE	501	48	26,34,34	1.20	2 (7%)	32,54,54	1.68	7 (21%)
47	GTP	VE	501	48	26,34,34	1.19	2 (7%)	32,54,54	1.59	7 (21%)
49	GDP	OB	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
49	GDP	ED	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
49	GDP	NF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.37	4 (13%)
47	GTP	SE	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.60	7 (21%)
47	GTP	DI	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.58	6 (18%)
49	GDP	GH	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.38	4 (13%)
47	GTP	MG	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.62	7 (21%)
47	GTP	II	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.60	7 (21%)
49	GDP	KD	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	5 (16%)
49	GDP	NJ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.37	4 (13%)
49	GDP	VJ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.33	4 (13%)
49	GDP	OH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
47	GTP	IG	501	48	26,34,34	1.18	2 (7%)	32,54,54	1.59	7 (21%)
47	GTP	RM	501	48	26,34,34	1.12	2 (7%)	32,54,54	1.53	6 (18%)
47	GTP	HK	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.67	6 (18%)
49	GDP	HJ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	4 (13%)
47	GTP	EC	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.57	7 (21%)
49	GDP	FF	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.36	4 (13%)
49	GDP	KH	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.32	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
47	GTP	EG	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.57	7 (21%)
47	GTP	TI	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
47	GTP	CK	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.61	7 (21%)
49	GDP	SD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.37	4 (13%)
49	GDP	HL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.36	4 (13%)
47	GTP	DA	501	-	26,34,34	1.12	2 (7%)	32,54,54	1.53	7 (21%)
49	GDP	IL	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.33	4 (13%)
47	GTP	LE	501	48	26,34,34	1.19	2 (7%)	32,54,54	1.59	7 (21%)
49	GDP	CB	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.30	4 (13%)
49	GDP	AF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.40	4 (13%)
49	GDP	RF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
49	GDP	GF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
47	GTP	LM	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.67	7 (21%)
49	GDP	UB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
47	GTP	EE	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.60	7 (21%)
49	GDP	CJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
49	GDP	EJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	5 (16%)
49	GDP	LJ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.35	4 (13%)
47	GTP	AC	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.65	7 (21%)
47	GTP	EI	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.57	7 (21%)
47	GTP	WM	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.58	6 (18%)
49	GDP	PH	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.27	4 (13%)
47	GTP	WA	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.60	7 (21%)
49	GDP	DH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.28	4 (13%)
47	GTP	GC	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.66	7 (21%)
47	GTP	AA	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.60	7 (21%)
47	GTP	OI	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.54	7 (21%)
49	GDP	ND	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.35	4 (13%)
47	GTP	HE	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.65	7 (21%)
47	GTP	WK	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.53	6 (18%)
49	GDP	RD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
49	GDP	EH	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.24	5 (16%)
47	GTP	JG	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.63	7 (21%)
47	GTP	HG	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.60	7 (21%)
47	GTP	FG	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.64	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
47	GTP	CC	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.62	7 (21%)
47	GTP	AI	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.68	7 (21%)
49	GDP	CF	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.25	4 (13%)
49	GDP	SB	501	-	24,30,30	0.89	1 (4%)	30,47,47	1.35	4 (13%)
49	GDP	JB	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
47	GTP	CM	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.60	7 (21%)
49	GDP	UL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.29	4 (13%)
47	GTP	LC	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.55	7 (21%)
47	GTP	PE	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.60	6 (18%)
49	GDP	FH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.28	4 (13%)
49	GDP	VF	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.36	4 (13%)
47	GTP	UG	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.59	7 (21%)
49	GDP	CL	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.33	4 (13%)
47	GTP	LG	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.53	7 (21%)
47	GTP	AM	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.63	7 (21%)
47	GTP	PI	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.60	6 (18%)
47	GTP	NG	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.59	7 (21%)
49	GDP	UN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
49	GDP	VD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
47	GTP	HI	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.67	7 (21%)
47	GTP	HC	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.67	6 (18%)
49	GDP	OD	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
49	GDP	AJ	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.37	6 (20%)
47	GTP	MA	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.61	7 (21%)
49	GDP	QL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
49	GDP	CH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.28	4 (13%)
49	GDP	GJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
49	GDP	AL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.37	4 (13%)
49	GDP	VL	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.32	4 (13%)
47	GTP	DE	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.57	7 (21%)
49	GDP	SL	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.39	5 (16%)
49	GDP	WF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
47	GTP	QI	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.59	7 (21%)
47	GTP	JA	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.63	7 (21%)
49	GDP	MB	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.38	4 (13%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
47	GTP	EA	501	48	26,34,34	1.12	2 (7%)	32,54,54	1.55	7 (21%)
47	GTP	PM	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.61	6 (18%)
47	GTP	WC	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.60	7 (21%)
47	GTP	NA	501	48	26,34,34	1.14	2 (7%)	32,54,54	1.55	7 (21%)
49	GDP	LF	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.35	4 (13%)
49	GDP	WJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
49	GDP	JH	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
47	GTP	NE	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.54	7 (21%)
47	GTP	HA	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.58	7 (21%)
47	GTP	LK	501	48	26,34,34	1.18	2 (7%)	32,54,54	1.57	7 (21%)
49	GDP	IB	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.28	4 (13%)
49	GDP	PL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	PA	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.55	7 (21%)
47	GTP	RA	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.56	7 (21%)
49	GDP	KJ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
49	GDP	WH	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	TK	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.59	7 (21%)
49	GDP	DN	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
49	GDP	LH	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.38	4 (13%)
49	GDP	AN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.39	4 (13%)
47	GTP	KE	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.65	7 (21%)
47	GTP	RE	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.60	7 (21%)
49	GDP	WN	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	4 (13%)
49	GDP	TJ	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.35	4 (13%)
49	GDP	RL	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	4 (13%)
49	GDP	JD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
49	GDP	KB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	4 (13%)
47	GTP	IK	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.68	7 (21%)
49	GDP	JL	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.36	4 (13%)
47	GTP	RC	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
47	GTP	FA	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.57	7 (21%)
49	GDP	TL	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
49	GDP	JF	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.37	4 (13%)
49	GDP	BH	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.36	5 (16%)
47	GTP	IC	501	48	26,34,34	1.17	2 (7%)	32,54,54	1.64	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
49	GDP	EB	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
47	GTP	TA	501	48	26,34,34	1.13	2 (7%)	32,54,54	1.56	7 (21%)
49	GDP	ON	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
47	GTP	LA	501	48	26,34,34	1.16	2 (7%)	32,54,54	1.63	7 (21%)
47	GTP	PK	501	48	26,34,34	1.15	2 (7%)	32,54,54	1.63	7 (21%)
47	GTP	SA	501	48	26,34,34	1.12	2 (7%)	32,54,54	1.55	7 (21%)
49	GDP	DD	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
49	GDP	FL	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
49	GDP	KF	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	RK	501	48	-	7/18/38/38	0/3/3/3
47	GTP	AE	501	48	-	9/18/38/38	0/3/3/3
49	GDP	LL	501	-	-	3/12/32/32	0/3/3/3
49	GDP	PF	501	-	-	0/12/32/32	0/3/3/3
47	GTP	QG	501	48	-	4/18/38/38	0/3/3/3
49	GDP	DL	501	-	-	0/12/32/32	0/3/3/3
49	GDP	QD	501	-	-	0/12/32/32	0/3/3/3
47	GTP	VI	501	48	-	6/18/38/38	0/3/3/3
49	GDP	EN	501	-	-	1/12/32/32	0/3/3/3
47	GTP	DK	501	48	-	8/18/38/38	0/3/3/3
49	GDP	QB	501	-	-	1/12/32/32	0/3/3/3
47	GTP	TC	501	48	-	8/18/38/38	0/3/3/3
47	GTP	PD	501	46,48	-	9/18/38/38	0/3/3/3
49	GDP	BD	501	-	-	2/12/32/32	0/3/3/3
47	GTP	EK	501	48	-	6/18/38/38	0/3/3/3
47	GTP	VG	501	48	-	8/18/38/38	0/3/3/3
47	GTP	UI	501	48	-	8/18/38/38	0/3/3/3
49	GDP	QH	501	-	-	0/12/32/32	0/3/3/3
49	GDP	AD	501	-	-	0/12/32/32	0/3/3/3
49	GDP	DF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	FD	501	-	-	1/12/32/32	0/3/3/3
47	GTP	TM	501	48	-	8/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	BG	501	48	-	9/18/38/38	0/3/3/3
47	GTP	AK	501	48	-	7/18/38/38	0/3/3/3
47	GTP	TG	501	48	-	7/18/38/38	0/3/3/3
47	GTP	JE	501	48	-	6/18/38/38	0/3/3/3
49	GDP	OF	502	-	-	0/12/32/32	0/3/3/3
47	GTP	NC	501	48	-	5/18/38/38	0/3/3/3
49	GDP	JN	501	-	-	0/12/32/32	0/3/3/3
47	GTP	MC	501	48	-	8/18/38/38	0/3/3/3
47	GTP	GI	501	48	-	8/18/38/38	0/3/3/3
49	GDP	SJ	501	-	-	0/12/32/32	0/3/3/3
49	GDP	UJ	501	-	-	0/12/32/32	0/3/3/3
47	GTP	OA	501	48	-	5/18/38/38	0/3/3/3
47	GTP	PG	501	48	-	7/18/38/38	0/3/3/3
49	GDP	QN	501	-	-	0/12/32/32	0/3/3/3
47	GTP	OC	501	48	-	7/18/38/38	0/3/3/3
47	GTP	GM	501	48	-	9/18/38/38	0/3/3/3
49	GDP	JJ	501	-	-	1/12/32/32	0/3/3/3
47	GTP	KI	501	48	-	7/18/38/38	0/3/3/3
49	GDP	DJ	501	-	-	0/12/32/32	0/3/3/3
49	GDP	UH	501	-	-	0/12/32/32	0/3/3/3
49	GDP	OL	501	-	-	0/12/32/32	0/3/3/3
49	GDP	MD	501	-	-	3/12/32/32	0/3/3/3
49	GDP	QF	501	-	-	0/12/32/32	0/3/3/3
47	GTP	SM	501	48	-	8/18/38/38	0/3/3/3
47	GTP	SC	501	48	-	7/18/38/38	0/3/3/3
47	GTP	NM	501	48	-	4/18/38/38	0/3/3/3
49	GDP	IN	501	-	-	1/12/32/32	0/3/3/3
47	GTP	IA	501	48	-	7/18/38/38	0/3/3/3
49	GDP	VH	501	-	-	1/12/32/32	0/3/3/3
49	GDP	VB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	GA	501	48	-	8/18/38/38	0/3/3/3
49	GDP	ML	501	-	-	1/12/32/32	0/3/3/3
47	GTP	BA	501	48	-	7/18/38/38	0/3/3/3
49	GDP	OJ	501	-	-	0/12/32/32	0/3/3/3
47	GTP	UC	501	48	-	6/18/38/38	0/3/3/3
47	GTP	VC	501	48	-	9/18/38/38	0/3/3/3
49	GDP	NB	501	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
49	GDP	PD	502	-	-	0/12/32/32	0/3/3/3
49	GDP	FJ	501	-	-	3/12/32/32	0/3/3/3
49	GDP	LD	501	-	-	2/12/32/32	0/3/3/3
49	GDP	IJ	501	-	-	0/12/32/32	0/3/3/3
47	GTP	JM	501	48	-	7/18/38/38	0/3/3/3
47	GTP	DG	501	48	-	6/18/38/38	0/3/3/3
49	GDP	MN	501	-	-	0/12/32/32	0/3/3/3
49	GDP	PB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	VK	501	48	-	9/18/38/38	0/3/3/3
47	GTP	RI	501	48	-	7/18/38/38	0/3/3/3
47	GTP	FK	501	48	-	8/18/38/38	0/3/3/3
47	GTP	BK	501	48	-	9/18/38/38	0/3/3/3
49	GDP	CD	501	-	-	0/12/32/32	0/3/3/3
49	GDP	BB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	OM	501	48	-	4/18/38/38	0/3/3/3
47	GTP	VA	501	48	-	7/18/38/38	0/3/3/3
47	GTP	WE	501	48	-	8/18/38/38	0/3/3/3
47	GTP	FM	501	48	-	8/18/38/38	0/3/3/3
47	GTP	CG	501	48	-	8/18/38/38	0/3/3/3
47	GTP	DM	501	48	-	7/18/38/38	0/3/3/3
47	GTP	FE	501	48	-	9/18/38/38	0/3/3/3
49	GDP	NL	501	-	-	0/12/32/32	0/3/3/3
47	GTP	OK	501	48	-	5/18/38/38	0/3/3/3
49	GDP	BN	501	-	-	3/12/32/32	0/3/3/3
47	GTP	HM	501	48	-	8/18/38/38	0/3/3/3
47	GTP	ME	501	48	-	8/18/38/38	0/3/3/3
47	GTP	WG	501	48	-	8/18/38/38	0/3/3/3
49	GDP	FN	501	-	-	1/12/32/32	0/3/3/3
47	GTP	DC	501	48	-	8/18/38/38	0/3/3/3
47	GTP	QE	501	48	-	6/18/38/38	0/3/3/3
47	GTP	VM	501	48	-	8/18/38/38	0/3/3/3
47	GTP	UE	501	48	-	8/18/38/38	0/3/3/3
47	GTP	UM	501	48	-	7/18/38/38	0/3/3/3
49	GDP	ID	501	-	-	1/12/32/32	0/3/3/3
47	GTP	KK	501	48	-	6/18/38/38	0/3/3/3
47	GTP	OG	501	48	-	8/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	MK	501	48	-	7/18/38/38	0/3/3/3
49	GDP	PN	502	-	-	0/12/32/32	0/3/3/3
47	GTP	QK	501	48	-	9/18/38/38	0/3/3/3
49	GDP	QJ	501	-	-	0/12/32/32	0/3/3/3
47	GTP	UA	501	48	-	8/18/38/38	0/3/3/3
47	GTP	BI	501	48	-	8/18/38/38	0/3/3/3
49	GDP	EF	501	-	-	0/12/32/32	0/3/3/3
49	GDP	TB	501	-	-	1/12/32/32	0/3/3/3
47	GTP	NK	501	48	-	6/18/38/38	0/3/3/3
47	GTP	SI	501	48	-	5/18/38/38	0/3/3/3
49	GDP	VN	501	-	-	1/12/32/32	0/3/3/3
47	GTP	BC	502	48	-	9/18/38/38	0/3/3/3
47	GTP	GE	501	48	-	7/18/38/38	0/3/3/3
49	GDP	RJ	501	-	-	3/12/32/32	0/3/3/3
49	GDP	IH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	KC	501	48	-	5/18/38/38	0/3/3/3
47	GTP	AG	501	48	-	7/18/38/38	0/3/3/3
47	GTP	MI	501	48	-	7/18/38/38	0/3/3/3
47	GTP	MM	501	48	-	6/18/38/38	0/3/3/3
49	GDP	RB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	GN	502	-	-	0/12/32/32	0/3/3/3
49	GDP	AB	501	-	-	1/12/32/32	0/3/3/3
49	GDP	IF	501	-	-	0/12/32/32	0/3/3/3
49	GDP	AH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	GG	501	48	-	8/18/38/38	0/3/3/3
49	GDP	MF	501	-	-	0/12/32/32	0/3/3/3
49	GDP	KN	501	-	-	0/12/32/32	0/3/3/3
49	GDP	GB	502	-	-	0/12/32/32	0/3/3/3
47	GTP	BE	501	48	-	9/18/38/38	0/3/3/3
47	GTP	NI	501	48	-	4/18/38/38	0/3/3/3
49	GDP	RH	501	-	-	0/12/32/32	0/3/3/3
49	GDP	DB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	JC	501	48	-	5/18/38/38	0/3/3/3
49	GDP	LB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	SF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	UF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	TH	501	-	-	1/12/32/32	0/3/3/3
49	GDP	RN	501	-	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
49	GDP	HN	501	-	-	0/12/32/32	0/3/3/3
47	GTP	LI	501	48	-	8/18/38/38	0/3/3/3
47	GTP	KA	501	48	-	8/18/38/38	0/3/3/3
47	GTP	CI	501	48	-	4/18/38/38	0/3/3/3
47	GTP	QA	501	48	-	8/18/38/38	0/3/3/3
47	GTP	UK	501	48	-	5/18/38/38	0/3/3/3
49	GDP	UD	501	-	-	1/12/32/32	0/3/3/3
49	GDP	HF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	MH	501	-	-	1/12/32/32	0/3/3/3
49	GDP	TD	501	-	-	4/12/32/32	0/3/3/3
49	GDP	NH	501	-	-	0/12/32/32	0/3/3/3
49	GDP	LN	501	-	-	0/12/32/32	0/3/3/3
47	GTP	SK	501	48	-	8/18/38/38	0/3/3/3
49	GDP	KL	501	-	-	1/12/32/32	0/3/3/3
47	GTP	WI	501	48	-	6/18/38/38	0/3/3/3
49	GDP	HH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	IM	501	48	-	8/18/38/38	0/3/3/3
47	GTP	EM	501	48	-	8/18/38/38	0/3/3/3
49	GDP	FB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	KG	501	48	-	6/18/38/38	0/3/3/3
49	GDP	PJ	501	-	-	0/12/32/32	0/3/3/3
47	GTP	JK	501	48	-	9/18/38/38	0/3/3/3
47	GTP	RG	501	48	-	8/18/38/38	0/3/3/3
49	GDP	TF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	MJ	501	-	-	1/12/32/32	0/3/3/3
49	GDP	EL	501	-	-	0/12/32/32	0/3/3/3
47	GTP	JI	501	48	-	7/18/38/38	0/3/3/3
49	GDP	GL	502	-	-	1/12/32/32	0/3/3/3
49	GDP	CN	501	-	-	0/12/32/32	0/3/3/3
47	GTP	KM	501	48	-	6/18/38/38	0/3/3/3
47	GTP	FC	501	48	-	8/18/38/38	0/3/3/3
47	GTP	CE	501	48	-	8/18/38/38	0/3/3/3
49	GDP	BL	501	-	-	0/12/32/32	0/3/3/3
49	GDP	NN	501	-	-	1/12/32/32	0/3/3/3
47	GTP	SG	501	48	-	8/18/38/38	0/3/3/3
49	GDP	SH	501	-	-	1/12/32/32	0/3/3/3
49	GDP	SN	501	-	-	0/12/32/32	0/3/3/3
49	GDP	TN	501	-	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	QM	501	48	-	8/18/38/38	0/3/3/3
49	GDP	GD	501	-	-	1/12/32/32	0/3/3/3
47	GTP	CA	501	48	-	9/18/38/38	0/3/3/3
49	GDP	HD	501	-	-	1/12/32/32	0/3/3/3
49	GDP	WL	501	-	-	1/12/32/32	0/3/3/3
47	GTP	QC	501	48	-	5/18/38/38	0/3/3/3
47	GTP	FI	501	48	-	7/18/38/38	0/3/3/3
49	GDP	WD	501	-	-	0/12/32/32	0/3/3/3
47	GTP	BM	501	48	-	7/18/38/38	0/3/3/3
49	GDP	HB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	OF	501	46,48	-	6/18/38/38	0/3/3/3
49	GDP	BF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	WB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	GK	501	48	-	8/18/38/38	0/3/3/3
49	GDP	BJ	501	-	-	0/12/32/32	0/3/3/3
47	GTP	TE	501	48	-	8/18/38/38	0/3/3/3
47	GTP	IE	501	48	-	8/18/38/38	0/3/3/3
47	GTP	VE	501	48	-	7/18/38/38	0/3/3/3
49	GDP	OB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	ED	501	-	-	0/12/32/32	0/3/3/3
49	GDP	NF	501	-	-	1/12/32/32	0/3/3/3
47	GTP	SE	501	48	-	8/18/38/38	0/3/3/3
47	GTP	DI	501	48	-	8/18/38/38	0/3/3/3
49	GDP	GH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	MG	501	48	-	7/18/38/38	0/3/3/3
47	GTP	II	501	48	-	8/18/38/38	0/3/3/3
49	GDP	KD	501	-	-	0/12/32/32	0/3/3/3
49	GDP	NJ	501	-	-	1/12/32/32	0/3/3/3
49	GDP	VJ	501	-	-	0/12/32/32	0/3/3/3
49	GDP	OH	501	-	-	1/12/32/32	0/3/3/3
47	GTP	IG	501	48	-	8/18/38/38	0/3/3/3
47	GTP	RM	501	48	-	9/18/38/38	0/3/3/3
47	GTP	HK	501	48	-	8/18/38/38	0/3/3/3
49	GDP	HJ	501	-	-	1/12/32/32	0/3/3/3
47	GTP	EC	501	48	-	7/18/38/38	0/3/3/3
49	GDP	FF	501	-	-	0/12/32/32	0/3/3/3
49	GDP	KH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	EG	501	48	-	6/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	TI	501	48	-	7/18/38/38	0/3/3/3
47	GTP	CK	501	48	-	7/18/38/38	0/3/3/3
49	GDP	SD	501	-	-	2/12/32/32	0/3/3/3
49	GDP	HL	501	-	-	1/12/32/32	0/3/3/3
47	GTP	DA	501	-	-	8/18/38/38	0/3/3/3
49	GDP	IL	501	-	-	0/12/32/32	0/3/3/3
47	GTP	LE	501	48	-	7/18/38/38	0/3/3/3
49	GDP	CB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	AF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	RF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	GF	501	-	-	1/12/32/32	0/3/3/3
47	GTP	LM	501	48	-	7/18/38/38	0/3/3/3
49	GDP	UB	501	-	-	1/12/32/32	0/3/3/3
47	GTP	EE	501	48	-	7/18/38/38	0/3/3/3
49	GDP	CJ	501	-	-	1/12/32/32	0/3/3/3
49	GDP	EJ	501	-	-	1/12/32/32	0/3/3/3
49	GDP	LJ	501	-	-	2/12/32/32	0/3/3/3
47	GTP	AC	501	48	-	8/18/38/38	0/3/3/3
47	GTP	EI	501	48	-	7/18/38/38	0/3/3/3
47	GTP	WM	501	48	-	8/18/38/38	0/3/3/3
49	GDP	PH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	WA	501	48	-	6/18/38/38	0/3/3/3
49	GDP	DH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	GC	501	48	-	7/18/38/38	0/3/3/3
47	GTP	AA	501	48	-	7/18/38/38	0/3/3/3
47	GTP	OI	501	48	-	5/18/38/38	0/3/3/3
49	GDP	ND	502	-	-	1/12/32/32	0/3/3/3
47	GTP	HE	501	48	-	8/18/38/38	0/3/3/3
47	GTP	WK	501	48	-	8/18/38/38	0/3/3/3
49	GDP	RD	501	-	-	0/12/32/32	0/3/3/3
49	GDP	EH	501	-	-	1/12/32/32	0/3/3/3
47	GTP	JG	501	48	-	7/18/38/38	0/3/3/3
47	GTP	HG	501	48	-	8/18/38/38	0/3/3/3
47	GTP	FG	501	48	-	8/18/38/38	0/3/3/3
47	GTP	CC	501	48	-	5/18/38/38	0/3/3/3
47	GTP	AI	501	48	-	7/18/38/38	0/3/3/3
49	GDP	CF	501	-	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
49	GDP	SB	501	-	-	1/12/32/32	0/3/3/3
49	GDP	JB	501	-	-	1/12/32/32	0/3/3/3
47	GTP	CM	501	48	-	7/18/38/38	0/3/3/3
49	GDP	UL	501	-	-	0/12/32/32	0/3/3/3
47	GTP	LC	501	48	-	5/18/38/38	0/3/3/3
47	GTP	PE	501	48	-	6/18/38/38	0/3/3/3
49	GDP	FH	501	-	-	1/12/32/32	0/3/3/3
49	GDP	VF	501	-	-	1/12/32/32	0/3/3/3
47	GTP	UG	501	48	-	8/18/38/38	0/3/3/3
49	GDP	CL	501	-	-	0/12/32/32	0/3/3/3
47	GTP	LG	501	48	-	5/18/38/38	0/3/3/3
47	GTP	AM	501	48	-	8/18/38/38	0/3/3/3
47	GTP	PI	501	48	-	6/18/38/38	0/3/3/3
47	GTP	NG	501	48	-	7/18/38/38	0/3/3/3
49	GDP	UN	501	-	-	1/12/32/32	0/3/3/3
49	GDP	VD	501	-	-	1/12/32/32	0/3/3/3
47	GTP	HI	501	48	-	8/18/38/38	0/3/3/3
47	GTP	HC	501	48	-	6/18/38/38	0/3/3/3
49	GDP	OD	501	-	-	0/12/32/32	0/3/3/3
49	GDP	AJ	501	-	-	1/12/32/32	0/3/3/3
47	GTP	MA	501	48	-	9/18/38/38	0/3/3/3
49	GDP	QL	501	-	-	0/12/32/32	0/3/3/3
49	GDP	CH	501	-	-	1/12/32/32	0/3/3/3
49	GDP	GJ	501	-	-	1/12/32/32	0/3/3/3
49	GDP	AL	501	-	-	1/12/32/32	0/3/3/3
49	GDP	VL	501	-	-	0/12/32/32	0/3/3/3
47	GTP	DE	501	48	-	7/18/38/38	0/3/3/3
49	GDP	SL	501	-	-	2/12/32/32	0/3/3/3
49	GDP	WF	501	-	-	0/12/32/32	0/3/3/3
47	GTP	QI	501	48	-	8/18/38/38	0/3/3/3
47	GTP	JA	501	48	-	6/18/38/38	0/3/3/3
49	GDP	MB	501	-	-	3/12/32/32	0/3/3/3
47	GTP	EA	501	48	-	8/18/38/38	0/3/3/3
47	GTP	PM	501	48	-	7/18/38/38	0/3/3/3
47	GTP	WC	501	48	-	7/18/38/38	0/3/3/3
47	GTP	NA	501	48	-	8/18/38/38	0/3/3/3
49	GDP	LF	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
49	GDP	WJ	501	-	-	2/12/32/32	0/3/3/3
49	GDP	JH	501	-	-	1/12/32/32	0/3/3/3
47	GTP	NE	501	48	-	7/18/38/38	0/3/3/3
47	GTP	HA	501	48	-	7/18/38/38	0/3/3/3
47	GTP	LK	501	48	-	9/18/38/38	0/3/3/3
49	GDP	IB	501	-	-	1/12/32/32	0/3/3/3
49	GDP	PL	501	-	-	0/12/32/32	0/3/3/3
47	GTP	PA	501	48	-	8/18/38/38	0/3/3/3
47	GTP	RA	501	48	-	8/18/38/38	0/3/3/3
49	GDP	KJ	501	-	-	0/12/32/32	0/3/3/3
49	GDP	WH	501	-	-	1/12/32/32	0/3/3/3
47	GTP	TK	501	48	-	8/18/38/38	0/3/3/3
49	GDP	DN	501	-	-	0/12/32/32	0/3/3/3
49	GDP	LH	501	-	-	3/12/32/32	0/3/3/3
49	GDP	AN	501	-	-	1/12/32/32	0/3/3/3
47	GTP	KE	501	48	-	6/18/38/38	0/3/3/3
47	GTP	RE	501	48	-	8/18/38/38	0/3/3/3
49	GDP	WN	501	-	-	1/12/32/32	0/3/3/3
49	GDP	TJ	501	-	-	1/12/32/32	0/3/3/3
49	GDP	RL	501	-	-	0/12/32/32	0/3/3/3
49	GDP	JD	501	-	-	2/12/32/32	0/3/3/3
49	GDP	KB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	IK	501	48	-	7/18/38/38	0/3/3/3
49	GDP	JL	501	-	-	1/12/32/32	0/3/3/3
47	GTP	RC	501	48	-	8/18/38/38	0/3/3/3
47	GTP	FA	501	48	-	8/18/38/38	0/3/3/3
49	GDP	TL	501	-	-	4/12/32/32	0/3/3/3
49	GDP	JF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	BH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	IC	501	48	-	9/18/38/38	0/3/3/3
49	GDP	EB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	TA	501	48	-	8/18/38/38	0/3/3/3
49	GDP	ON	501	-	-	0/12/32/32	0/3/3/3
47	GTP	LA	501	48	-	8/18/38/38	0/3/3/3
47	GTP	PK	501	48	-	6/18/38/38	0/3/3/3
47	GTP	SA	501	48	-	7/18/38/38	0/3/3/3
49	GDP	DD	501	-	-	1/12/32/32	0/3/3/3
49	GDP	FL	502	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
49	GDP	KF	501	-	-	0/12/32/32	0/3/3/3

All (483) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	AK	501	GTP	C5-C6	-4.36	1.38	1.47
47	LE	501	GTP	C5-C6	-4.32	1.38	1.47
47	VE	501	GTP	C5-C6	-4.31	1.38	1.47
47	NK	501	GTP	C5-C6	-4.30	1.38	1.47
47	NI	501	GTP	C5-C6	-4.30	1.38	1.47
47	ME	501	GTP	C5-C6	-4.27	1.38	1.47
47	KG	501	GTP	C5-C6	-4.27	1.38	1.47
47	NE	501	GTP	C5-C6	-4.26	1.38	1.47
47	QK	501	GTP	C5-C6	-4.25	1.38	1.47
47	IE	501	GTP	C5-C6	-4.25	1.38	1.47
47	GK	501	GTP	C5-C6	-4.25	1.38	1.47
47	LI	501	GTP	C5-C6	-4.24	1.38	1.47
47	LK	501	GTP	C5-C6	-4.24	1.38	1.47
47	QG	501	GTP	C5-C6	-4.23	1.38	1.47
47	RI	501	GTP	C5-C6	-4.23	1.38	1.47
47	KE	501	GTP	C5-C6	-4.23	1.38	1.47
47	IG	501	GTP	C5-C6	-4.22	1.38	1.47
47	MG	501	GTP	C5-C6	-4.22	1.38	1.47
47	KC	501	GTP	C5-C6	-4.22	1.38	1.47
47	KI	501	GTP	C5-C6	-4.21	1.38	1.47
47	SG	501	GTP	C5-C6	-4.21	1.38	1.47
47	MC	501	GTP	C5-C6	-4.21	1.38	1.47
47	LC	501	GTP	C5-C6	-4.20	1.38	1.47
47	QI	501	GTP	C5-C6	-4.20	1.38	1.47
47	EE	501	GTP	C5-C6	-4.19	1.38	1.47
47	FE	501	GTP	C5-C6	-4.18	1.38	1.47
47	JE	501	GTP	C5-C6	-4.18	1.38	1.47
47	JC	501	GTP	C5-C6	-4.18	1.38	1.47
47	QE	501	GTP	C5-C6	-4.18	1.38	1.47
47	FI	501	GTP	C5-C6	-4.18	1.38	1.47
47	AE	501	GTP	C5-C6	-4.18	1.38	1.47
47	FG	501	GTP	C5-C6	-4.18	1.38	1.47
47	HG	501	GTP	C5-C6	-4.18	1.38	1.47
47	GG	501	GTP	C5-C6	-4.18	1.38	1.47
47	LG	501	GTP	C5-C6	-4.18	1.38	1.47
47	BK	501	GTP	C5-C6	-4.17	1.38	1.47
47	KK	501	GTP	C5-C6	-4.17	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	IK	501	GTP	C5-C6	-4.17	1.38	1.47
47	II	501	GTP	C5-C6	-4.17	1.38	1.47
47	LA	501	GTP	C5-C6	-4.17	1.38	1.47
47	MK	501	GTP	C5-C6	-4.17	1.38	1.47
47	JG	501	GTP	C5-C6	-4.16	1.39	1.47
47	NG	501	GTP	C5-C6	-4.16	1.39	1.47
47	FK	501	GTP	C5-C6	-4.16	1.39	1.47
47	SI	501	GTP	C5-C6	-4.16	1.39	1.47
47	AG	501	GTP	C5-C6	-4.16	1.39	1.47
47	HE	501	GTP	C5-C6	-4.15	1.39	1.47
47	AI	501	GTP	C5-C6	-4.15	1.39	1.47
47	MI	501	GTP	C5-C6	-4.15	1.39	1.47
47	IC	501	GTP	C5-C6	-4.15	1.39	1.47
47	GC	501	GTP	C5-C6	-4.15	1.39	1.47
47	BE	501	GTP	C5-C6	-4.15	1.39	1.47
47	SE	501	GTP	C5-C6	-4.15	1.39	1.47
47	TI	501	GTP	C5-C6	-4.14	1.39	1.47
47	DE	501	GTP	C5-C6	-4.14	1.39	1.47
47	RE	501	GTP	C5-C6	-4.14	1.39	1.47
47	KA	501	GTP	C5-C6	-4.14	1.39	1.47
47	LM	501	GTP	C5-C6	-4.14	1.39	1.47
47	VK	501	GTP	C5-C6	-4.13	1.39	1.47
47	AA	501	GTP	C5-C6	-4.13	1.39	1.47
47	AM	501	GTP	C5-C6	-4.13	1.39	1.47
47	NM	501	GTP	C5-C6	-4.13	1.39	1.47
47	JK	501	GTP	C5-C6	-4.13	1.39	1.47
47	BC	502	GTP	C5-C6	-4.13	1.39	1.47
47	DC	501	GTP	C5-C6	-4.13	1.39	1.47
47	HI	501	GTP	C5-C6	-4.13	1.39	1.47
47	GE	501	GTP	C5-C6	-4.13	1.39	1.47
47	RC	501	GTP	C5-C6	-4.13	1.39	1.47
47	BI	501	GTP	C5-C6	-4.13	1.39	1.47
47	FC	501	GTP	C5-C6	-4.13	1.39	1.47
47	EI	501	GTP	C5-C6	-4.12	1.39	1.47
47	OM	501	GTP	C5-C6	-4.12	1.39	1.47
47	TG	501	GTP	C5-C6	-4.12	1.39	1.47
47	JA	501	GTP	C5-C6	-4.12	1.39	1.47
47	EG	501	GTP	C5-C6	-4.12	1.39	1.47
47	EK	501	GTP	C5-C6	-4.12	1.39	1.47
47	TK	501	GTP	C5-C6	-4.12	1.39	1.47
47	NC	501	GTP	C5-C6	-4.12	1.39	1.47
47	RG	501	GTP	C5-C6	-4.11	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	UI	501	GTP	C5-C6	-4.11	1.39	1.47
47	KM	501	GTP	C5-C6	-4.11	1.39	1.47
47	WE	501	GTP	C5-C6	-4.11	1.39	1.47
47	OF	501	GTP	C5-C6	-4.11	1.39	1.47
47	AC	501	GTP	C5-C6	-4.10	1.39	1.47
47	UE	501	GTP	C5-C6	-4.10	1.39	1.47
47	UK	501	GTP	C5-C6	-4.10	1.39	1.47
47	DK	501	GTP	C5-C6	-4.10	1.39	1.47
47	WC	501	GTP	C5-C6	-4.10	1.39	1.47
47	GI	501	GTP	C5-C6	-4.09	1.39	1.47
47	WI	501	GTP	C5-C6	-4.09	1.39	1.47
47	IA	501	GTP	C5-C6	-4.09	1.39	1.47
47	RK	501	GTP	C5-C6	-4.09	1.39	1.47
47	SK	501	GTP	C5-C6	-4.09	1.39	1.47
47	VI	501	GTP	C5-C6	-4.09	1.39	1.47
47	HC	501	GTP	C5-C6	-4.08	1.39	1.47
47	PK	501	GTP	C5-C6	-4.08	1.39	1.47
47	VC	501	GTP	C5-C6	-4.08	1.39	1.47
47	SM	501	GTP	C5-C6	-4.08	1.39	1.47
47	UG	501	GTP	C5-C6	-4.08	1.39	1.47
47	VA	501	GTP	C5-C6	-4.08	1.39	1.47
47	DG	501	GTP	C5-C6	-4.07	1.39	1.47
47	MM	501	GTP	C5-C6	-4.07	1.39	1.47
47	UC	501	GTP	C5-C6	-4.07	1.39	1.47
47	UM	501	GTP	C5-C6	-4.07	1.39	1.47
47	JI	501	GTP	C5-C6	-4.07	1.39	1.47
47	PE	501	GTP	C5-C6	-4.07	1.39	1.47
47	DM	501	GTP	C5-C6	-4.07	1.39	1.47
47	WG	501	GTP	C5-C6	-4.07	1.39	1.47
47	CM	501	GTP	C5-C6	-4.06	1.39	1.47
47	SC	501	GTP	C5-C6	-4.06	1.39	1.47
47	DI	501	GTP	C5-C6	-4.06	1.39	1.47
47	TE	501	GTP	C5-C6	-4.06	1.39	1.47
47	CG	501	GTP	C5-C6	-4.06	1.39	1.47
47	VG	501	GTP	C5-C6	-4.06	1.39	1.47
47	OK	501	GTP	C5-C6	-4.06	1.39	1.47
47	NA	501	GTP	C5-C6	-4.05	1.39	1.47
47	MA	501	GTP	C5-C6	-4.05	1.39	1.47
47	WK	501	GTP	C5-C6	-4.04	1.39	1.47
47	CE	501	GTP	C5-C6	-4.04	1.39	1.47
47	EC	501	GTP	C5-C6	-4.04	1.39	1.47
47	GA	501	GTP	C5-C6	-4.03	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	FA	501	GTP	C5-C6	-4.03	1.39	1.47
47	FM	501	GTP	C5-C6	-4.03	1.39	1.47
47	QC	501	GTP	C5-C6	-4.03	1.39	1.47
47	CC	501	GTP	C5-C6	-4.03	1.39	1.47
47	TA	501	GTP	C5-C6	-4.03	1.39	1.47
47	CK	501	GTP	C5-C6	-4.03	1.39	1.47
47	OI	501	GTP	C5-C6	-4.03	1.39	1.47
47	OA	501	GTP	C5-C6	-4.02	1.39	1.47
47	TM	501	GTP	C5-C6	-4.02	1.39	1.47
47	BM	501	GTP	C5-C6	-4.02	1.39	1.47
47	EA	501	GTP	C5-C6	-4.02	1.39	1.47
47	CA	501	GTP	C5-C6	-4.02	1.39	1.47
47	WM	501	GTP	C5-C6	-4.02	1.39	1.47
47	QA	501	GTP	C5-C6	-4.02	1.39	1.47
47	JM	501	GTP	C5-C6	-4.02	1.39	1.47
47	BG	501	GTP	C5-C6	-4.01	1.39	1.47
47	HA	501	GTP	C5-C6	-4.01	1.39	1.47
47	CI	501	GTP	C5-C6	-4.01	1.39	1.47
47	PD	501	GTP	C5-C6	-4.01	1.39	1.47
47	WA	501	GTP	C5-C6	-4.01	1.39	1.47
47	RA	501	GTP	C5-C6	-4.01	1.39	1.47
47	HM	501	GTP	C5-C6	-4.01	1.39	1.47
47	DA	501	GTP	C5-C6	-4.01	1.39	1.47
47	PG	501	GTP	C5-C6	-4.00	1.39	1.47
47	TC	501	GTP	C5-C6	-4.00	1.39	1.47
47	QM	501	GTP	C5-C6	-4.00	1.39	1.47
47	SA	501	GTP	C5-C6	-4.00	1.39	1.47
47	HK	501	GTP	C5-C6	-4.00	1.39	1.47
47	PI	501	GTP	C5-C6	-4.00	1.39	1.47
47	RM	501	GTP	C5-C6	-3.99	1.39	1.47
47	OG	501	GTP	C5-C6	-3.99	1.39	1.47
47	EM	501	GTP	C5-C6	-3.99	1.39	1.47
47	PA	501	GTP	C5-C6	-3.99	1.39	1.47
47	PM	501	GTP	C5-C6	-3.99	1.39	1.47
47	IM	501	GTP	C5-C6	-3.99	1.39	1.47
47	UA	501	GTP	C5-C6	-3.99	1.39	1.47
47	VM	501	GTP	C5-C6	-3.98	1.39	1.47
47	OC	501	GTP	C5-C6	-3.97	1.39	1.47
47	BA	501	GTP	C5-C6	-3.96	1.39	1.47
47	GM	501	GTP	C5-C6	-3.94	1.39	1.47
49	RB	501	GDP	C6-N1	-2.78	1.33	1.37
49	RJ	501	GDP	C6-N1	-2.76	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	KH	501	GDP	C6-N1	-2.75	1.33	1.37
49	GH	501	GDP	C6-N1	-2.71	1.33	1.37
49	VF	501	GDP	C6-N1	-2.65	1.33	1.37
49	GL	502	GDP	C6-N1	-2.64	1.33	1.37
49	LF	501	GDP	C6-N1	-2.64	1.33	1.37
49	UJ	501	GDP	C6-N1	-2.63	1.34	1.37
49	HJ	501	GDP	C6-N1	-2.63	1.34	1.37
49	FJ	501	GDP	C6-N1	-2.62	1.34	1.37
49	IL	501	GDP	C6-N1	-2.62	1.34	1.37
49	AN	501	GDP	C6-N1	-2.61	1.34	1.37
49	LD	501	GDP	C6-N1	-2.61	1.34	1.37
49	AJ	501	GDP	C6-N1	-2.60	1.34	1.37
49	GF	501	GDP	C6-N1	-2.60	1.34	1.37
49	DJ	501	GDP	C6-N1	-2.60	1.34	1.37
49	SD	501	GDP	C6-N1	-2.59	1.34	1.37
49	MD	501	GDP	C6-N1	-2.59	1.34	1.37
49	BL	501	GDP	C6-N1	-2.59	1.34	1.37
49	BD	501	GDP	C6-N1	-2.59	1.34	1.37
49	QF	501	GDP	C6-N1	-2.59	1.34	1.37
49	QD	501	GDP	C6-N1	-2.59	1.34	1.37
49	IF	501	GDP	C6-N1	-2.58	1.34	1.37
49	FH	501	GDP	C6-N1	-2.58	1.34	1.37
49	GD	501	GDP	C6-N1	-2.58	1.34	1.37
49	LH	501	GDP	C6-N1	-2.58	1.34	1.37
49	ML	501	GDP	C6-N1	-2.57	1.34	1.37
49	CD	501	GDP	C6-N1	-2.57	1.34	1.37
49	VL	501	GDP	C6-N1	-2.57	1.34	1.37
49	HN	501	GDP	C6-N1	-2.57	1.34	1.37
49	HL	501	GDP	C6-N1	-2.57	1.34	1.37
49	AL	501	GDP	C6-N1	-2.57	1.34	1.37
49	DD	501	GDP	C6-N1	-2.57	1.34	1.37
49	EF	501	GDP	C6-N1	-2.57	1.34	1.37
49	QJ	501	GDP	C6-N1	-2.57	1.34	1.37
49	AF	501	GDP	C6-N1	-2.56	1.34	1.37
49	GJ	501	GDP	C6-N1	-2.56	1.34	1.37
49	JJ	501	GDP	C6-N1	-2.56	1.34	1.37
49	RH	501	GDP	C6-N1	-2.56	1.34	1.37
49	UH	501	GDP	C6-N1	-2.56	1.34	1.37
49	NJ	501	GDP	C6-N1	-2.56	1.34	1.37
49	ID	501	GDP	C6-N1	-2.56	1.34	1.37
49	ND	502	GDP	C6-N1	-2.56	1.34	1.37
49	WH	501	GDP	C6-N1	-2.56	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	IH	501	GDP	C6-N1	-2.56	1.34	1.37
49	WF	501	GDP	C6-N1	-2.56	1.34	1.37
49	HH	501	GDP	C6-N1	-2.55	1.34	1.37
49	MH	501	GDP	C6-N1	-2.55	1.34	1.37
49	LJ	501	GDP	C6-N1	-2.55	1.34	1.37
49	RF	501	GDP	C6-N1	-2.55	1.34	1.37
49	LL	501	GDP	C6-N1	-2.55	1.34	1.37
49	JF	501	GDP	C6-N1	-2.55	1.34	1.37
49	VD	501	GDP	C6-N1	-2.55	1.34	1.37
49	MJ	501	GDP	C6-N1	-2.54	1.34	1.37
49	AH	501	GDP	C6-N1	-2.54	1.34	1.37
49	OF	502	GDP	C6-N1	-2.54	1.34	1.37
49	BH	501	GDP	C6-N1	-2.54	1.34	1.37
49	HF	501	GDP	C6-N1	-2.54	1.34	1.37
49	IJ	501	GDP	C6-N1	-2.54	1.34	1.37
49	CF	501	GDP	C6-N1	-2.54	1.34	1.37
49	KJ	501	GDP	C6-N1	-2.54	1.34	1.37
49	AD	501	GDP	C6-N1	-2.54	1.34	1.37
49	VH	501	GDP	C6-N1	-2.54	1.34	1.37
49	UF	501	GDP	C6-N1	-2.54	1.34	1.37
49	JL	501	GDP	C6-N1	-2.53	1.34	1.37
49	SF	501	GDP	C6-N1	-2.53	1.34	1.37
49	FD	501	GDP	C6-N1	-2.53	1.34	1.37
49	ON	501	GDP	C6-N1	-2.53	1.34	1.37
49	JB	501	GDP	C6-N1	-2.53	1.34	1.37
49	NL	501	GDP	C6-N1	-2.53	1.34	1.37
49	OJ	501	GDP	C6-N1	-2.52	1.34	1.37
49	BF	501	GDP	C6-N1	-2.52	1.34	1.37
49	HD	501	GDP	C6-N1	-2.52	1.34	1.37
49	LN	501	GDP	C6-N1	-2.52	1.34	1.37
49	RD	501	GDP	C6-N1	-2.52	1.34	1.37
49	CH	501	GDP	C6-N1	-2.52	1.34	1.37
49	BJ	501	GDP	C6-N1	-2.52	1.34	1.37
49	VN	501	GDP	C6-N1	-2.52	1.34	1.37
49	NF	501	GDP	C6-N1	-2.52	1.34	1.37
49	SJ	501	GDP	C6-N1	-2.51	1.34	1.37
49	WN	501	GDP	C6-N1	-2.51	1.34	1.37
49	PH	501	GDP	C6-N1	-2.51	1.34	1.37
49	NH	501	GDP	C6-N1	-2.51	1.34	1.37
49	UL	501	GDP	C6-N1	-2.51	1.34	1.37
49	ED	501	GDP	C6-N1	-2.50	1.34	1.37
49	MF	501	GDP	C6-N1	-2.50	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	QH	501	GDP	C6-N1	-2.50	1.34	1.37
49	GN	502	GDP	C6-N1	-2.50	1.34	1.37
49	KB	501	GDP	C6-N1	-2.50	1.34	1.37
49	CJ	501	GDP	C6-N1	-2.49	1.34	1.37
49	TH	501	GDP	C6-N1	-2.49	1.34	1.37
49	TL	501	GDP	C6-N1	-2.49	1.34	1.37
49	FL	502	GDP	C6-N1	-2.49	1.34	1.37
49	WL	501	GDP	C6-N1	-2.49	1.34	1.37
49	KD	501	GDP	C6-N1	-2.49	1.34	1.37
49	RL	501	GDP	C6-N1	-2.49	1.34	1.37
49	EJ	501	GDP	C6-N1	-2.49	1.34	1.37
49	DH	501	GDP	C6-N1	-2.48	1.34	1.37
49	FN	501	GDP	C6-N1	-2.48	1.34	1.37
49	BN	501	GDP	C6-N1	-2.48	1.34	1.37
49	IN	501	GDP	C6-N1	-2.48	1.34	1.37
49	JD	501	GDP	C6-N1	-2.48	1.34	1.37
49	NB	501	GDP	C6-N1	-2.48	1.34	1.37
49	MN	501	GDP	C6-N1	-2.48	1.34	1.37
49	FF	501	GDP	C6-N1	-2.47	1.34	1.37
49	JH	501	GDP	C6-N1	-2.47	1.34	1.37
49	KL	501	GDP	C6-N1	-2.47	1.34	1.37
49	TF	501	GDP	C6-N1	-2.47	1.34	1.37
49	PN	502	GDP	C6-N1	-2.47	1.34	1.37
49	OD	501	GDP	C6-N1	-2.47	1.34	1.37
49	UD	501	GDP	C6-N1	-2.47	1.34	1.37
49	EN	501	GDP	C6-N1	-2.47	1.34	1.37
49	WD	501	GDP	C6-N1	-2.47	1.34	1.37
49	OL	501	GDP	C6-N1	-2.46	1.34	1.37
49	WB	501	GDP	C6-N1	-2.46	1.34	1.37
49	QL	501	GDP	C6-N1	-2.46	1.34	1.37
49	CL	501	GDP	C6-N1	-2.45	1.34	1.37
49	VJ	501	GDP	C6-N1	-2.45	1.34	1.37
49	SH	501	GDP	C6-N1	-2.45	1.34	1.37
49	WJ	501	GDP	C6-N1	-2.45	1.34	1.37
49	LB	501	GDP	C6-N1	-2.45	1.34	1.37
49	NN	501	GDP	C6-N1	-2.45	1.34	1.37
49	OH	501	GDP	C6-N1	-2.45	1.34	1.37
49	EH	501	GDP	C6-N1	-2.45	1.34	1.37
49	KF	501	GDP	C6-N1	-2.44	1.34	1.37
49	DF	501	GDP	C6-N1	-2.44	1.34	1.37
49	SL	501	GDP	C6-N1	-2.44	1.34	1.37
49	UN	501	GDP	C6-N1	-2.44	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	TJ	501	GDP	C6-N1	-2.43	1.34	1.37
49	PL	501	GDP	C6-N1	-2.43	1.34	1.37
49	QB	501	GDP	C6-N1	-2.43	1.34	1.37
49	RN	501	GDP	C6-N1	-2.43	1.34	1.37
49	CB	501	GDP	C6-N1	-2.43	1.34	1.37
49	VB	501	GDP	C6-N1	-2.43	1.34	1.37
49	JN	501	GDP	C6-N1	-2.42	1.34	1.37
49	EB	501	GDP	C6-N1	-2.42	1.34	1.37
49	PB	501	GDP	C6-N1	-2.41	1.34	1.37
49	OB	501	GDP	C6-N1	-2.41	1.34	1.37
49	PJ	501	GDP	C6-N1	-2.41	1.34	1.37
49	KN	501	GDP	C6-N1	-2.40	1.34	1.37
49	PF	501	GDP	C6-N1	-2.40	1.34	1.37
49	GB	502	GDP	C6-N1	-2.39	1.34	1.37
49	TD	501	GDP	C6-N1	-2.39	1.34	1.37
49	MB	501	GDP	C6-N1	-2.39	1.34	1.37
49	DL	501	GDP	C6-N1	-2.38	1.34	1.37
49	CN	501	GDP	C6-N1	-2.38	1.34	1.37
49	PD	502	GDP	C6-N1	-2.37	1.34	1.37
49	EL	501	GDP	C6-N1	-2.36	1.34	1.37
49	UB	501	GDP	C6-N1	-2.36	1.34	1.37
49	FB	501	GDP	C6-N1	-2.36	1.34	1.37
49	TN	501	GDP	C6-N1	-2.36	1.34	1.37
49	DB	501	GDP	C6-N1	-2.35	1.34	1.37
49	HB	501	GDP	C6-N1	-2.35	1.34	1.37
49	SN	501	GDP	C6-N1	-2.35	1.34	1.37
49	BB	501	GDP	C6-N1	-2.35	1.34	1.37
47	EM	501	GTP	C2-N3	2.34	1.38	1.33
49	AB	501	GDP	C6-N1	-2.34	1.34	1.37
49	DN	501	GDP	C6-N1	-2.34	1.34	1.37
49	QN	501	GDP	C6-N1	-2.33	1.34	1.37
49	IB	501	GDP	C6-N1	-2.32	1.34	1.37
49	TB	501	GDP	C6-N1	-2.32	1.34	1.37
47	UA	501	GTP	C2-N3	2.29	1.38	1.33
49	SB	501	GDP	C6-N1	-2.28	1.34	1.37
47	SM	501	GTP	C2-N3	2.27	1.38	1.33
47	BG	501	GTP	C2-N3	2.27	1.38	1.33
47	HM	501	GTP	C2-N3	2.27	1.38	1.33
47	FM	501	GTP	C2-N3	2.26	1.38	1.33
47	VM	501	GTP	C2-N3	2.26	1.38	1.33
47	RA	501	GTP	C2-N3	2.26	1.38	1.33
47	EA	501	GTP	C2-N3	2.25	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	HA	501	GTP	C2-N3	2.25	1.38	1.33
47	QA	501	GTP	C2-N3	2.25	1.38	1.33
47	DA	501	GTP	C2-N3	2.25	1.38	1.33
47	JM	501	GTP	C2-N3	2.25	1.38	1.33
47	GM	501	GTP	C2-N3	2.24	1.38	1.33
47	NA	501	GTP	C2-N3	2.24	1.38	1.33
47	QC	501	GTP	C2-N3	2.24	1.38	1.33
47	WM	501	GTP	C2-N3	2.24	1.38	1.33
47	TA	501	GTP	C2-N3	2.24	1.38	1.33
47	SA	501	GTP	C2-N3	2.23	1.38	1.33
47	PA	501	GTP	C2-N3	2.23	1.38	1.33
47	BI	501	GTP	C2-N3	2.23	1.38	1.33
47	CA	501	GTP	C2-N3	2.23	1.38	1.33
47	DK	501	GTP	C2-N3	2.23	1.38	1.33
47	RC	501	GTP	C2-N3	2.22	1.38	1.33
47	PG	501	GTP	C2-N3	2.22	1.38	1.33
47	VE	501	GTP	C2-N3	2.22	1.38	1.33
47	OA	501	GTP	C2-N3	2.22	1.38	1.33
47	CM	501	GTP	C2-N3	2.22	1.38	1.33
47	OC	501	GTP	C2-N3	2.22	1.38	1.33
47	ME	501	GTP	C2-N3	2.21	1.38	1.33
47	DC	501	GTP	C2-N3	2.21	1.38	1.33
47	WG	501	GTP	C2-N3	2.21	1.38	1.33
47	PK	501	GTP	C2-N3	2.21	1.38	1.33
47	UM	501	GTP	C2-N3	2.21	1.38	1.33
47	QE	501	GTP	C2-N3	2.21	1.38	1.33
47	OM	501	GTP	C2-N3	2.21	1.38	1.33
47	UI	501	GTP	C2-N3	2.21	1.38	1.33
47	DI	501	GTP	C2-N3	2.21	1.38	1.33
47	QI	501	GTP	C2-N3	2.21	1.38	1.33
47	IC	501	GTP	C2-N3	2.20	1.38	1.33
47	RI	501	GTP	C2-N3	2.20	1.38	1.33
47	AC	501	GTP	C2-N3	2.20	1.38	1.33
47	CG	501	GTP	C2-N3	2.20	1.38	1.33
47	DG	501	GTP	C2-N3	2.20	1.38	1.33
47	BK	501	GTP	C2-N3	2.20	1.38	1.33
47	UE	501	GTP	C2-N3	2.20	1.38	1.33
47	QG	501	GTP	C2-N3	2.20	1.38	1.33
47	HI	501	GTP	C2-N3	2.20	1.38	1.33
47	TM	501	GTP	C2-N3	2.19	1.38	1.33
47	UG	501	GTP	C2-N3	2.19	1.38	1.33
47	RG	501	GTP	C2-N3	2.19	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	PD	501	GTP	C2-N3	2.19	1.38	1.33
47	TC	501	GTP	C2-N3	2.19	1.38	1.33
47	GC	501	GTP	C2-N3	2.19	1.38	1.33
47	IE	501	GTP	C2-N3	2.19	1.38	1.33
47	CK	501	GTP	C2-N3	2.18	1.38	1.33
47	GE	501	GTP	C2-N3	2.18	1.38	1.33
47	IA	501	GTP	C2-N3	2.18	1.38	1.33
47	NM	501	GTP	C2-N3	2.18	1.38	1.33
47	WC	501	GTP	C2-N3	2.18	1.38	1.33
47	EC	501	GTP	C2-N3	2.18	1.38	1.33
47	KA	501	GTP	C2-N3	2.18	1.38	1.33
47	JG	501	GTP	C2-N3	2.18	1.38	1.33
47	LK	501	GTP	C2-N3	2.18	1.38	1.33
47	UK	501	GTP	C2-N3	2.18	1.38	1.33
47	BC	502	GTP	C2-N3	2.18	1.38	1.33
47	DM	501	GTP	C2-N3	2.18	1.38	1.33
47	PE	501	GTP	C2-N3	2.18	1.38	1.33
47	AK	501	GTP	C2-N3	2.18	1.38	1.33
47	BE	501	GTP	C2-N3	2.18	1.38	1.33
47	NG	501	GTP	C2-N3	2.18	1.38	1.33
47	MA	501	GTP	C2-N3	2.18	1.38	1.33
47	HK	501	GTP	C2-N3	2.18	1.38	1.33
47	AI	501	GTP	C2-N3	2.18	1.38	1.33
47	QM	501	GTP	C2-N3	2.18	1.38	1.33
47	DE	501	GTP	C2-N3	2.18	1.38	1.33
47	BM	501	GTP	C2-N3	2.17	1.38	1.33
47	HC	501	GTP	C2-N3	2.17	1.38	1.33
47	OI	501	GTP	C2-N3	2.17	1.38	1.33
47	AM	501	GTP	C2-N3	2.17	1.38	1.33
47	BA	501	GTP	C2-N3	2.17	1.38	1.33
47	AG	501	GTP	C2-N3	2.17	1.38	1.33
47	LA	501	GTP	C2-N3	2.17	1.38	1.33
47	II	501	GTP	C2-N3	2.16	1.38	1.33
47	VK	501	GTP	C2-N3	2.16	1.38	1.33
47	FC	501	GTP	C2-N3	2.16	1.38	1.33
47	EI	501	GTP	C2-N3	2.16	1.38	1.33
47	FK	501	GTP	C2-N3	2.16	1.38	1.33
47	OG	501	GTP	C2-N3	2.16	1.38	1.33
47	HG	501	GTP	C2-N3	2.16	1.38	1.33
47	RE	501	GTP	C2-N3	2.16	1.38	1.33
47	PM	501	GTP	C2-N3	2.16	1.38	1.33
47	AE	501	GTP	C2-N3	2.16	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	JK	501	GTP	C2-N3	2.16	1.38	1.33
47	GI	501	GTP	C2-N3	2.16	1.38	1.33
47	VC	501	GTP	C2-N3	2.16	1.38	1.33
47	LG	501	GTP	C2-N3	2.15	1.38	1.33
47	MC	501	GTP	C2-N3	2.15	1.38	1.33
47	FA	501	GTP	C2-N3	2.15	1.38	1.33
47	EG	501	GTP	C2-N3	2.15	1.38	1.33
47	GG	501	GTP	C2-N3	2.15	1.38	1.33
47	UC	501	GTP	C2-N3	2.15	1.38	1.33
47	IM	501	GTP	C2-N3	2.15	1.38	1.33
47	VA	501	GTP	C2-N3	2.15	1.38	1.33
47	CE	501	GTP	C2-N3	2.15	1.38	1.33
47	WA	501	GTP	C2-N3	2.15	1.38	1.33
47	WI	501	GTP	C2-N3	2.15	1.38	1.33
47	EK	501	GTP	C2-N3	2.15	1.38	1.33
47	GK	501	GTP	C2-N3	2.15	1.38	1.33
47	IK	501	GTP	C2-N3	2.15	1.38	1.33
47	NK	501	GTP	C2-N3	2.15	1.38	1.33
47	CI	501	GTP	C2-N3	2.15	1.38	1.33
47	PI	501	GTP	C2-N3	2.14	1.38	1.33
47	OF	501	GTP	C2-N3	2.14	1.38	1.33
47	NI	501	GTP	C2-N3	2.14	1.38	1.33
47	LI	501	GTP	C2-N3	2.14	1.38	1.33
47	QK	501	GTP	C2-N3	2.14	1.38	1.33
47	SI	501	GTP	C2-N3	2.14	1.38	1.33
47	RM	501	GTP	C2-N3	2.14	1.38	1.33
47	NE	501	GTP	C2-N3	2.13	1.38	1.33
47	KE	501	GTP	C2-N3	2.13	1.38	1.33
47	KG	501	GTP	C2-N3	2.13	1.38	1.33
47	VG	501	GTP	C2-N3	2.13	1.38	1.33
47	JA	501	GTP	C2-N3	2.13	1.38	1.33
47	SC	501	GTP	C2-N3	2.13	1.38	1.33
47	GA	501	GTP	C2-N3	2.13	1.38	1.33
47	JC	501	GTP	C2-N3	2.12	1.38	1.33
47	RK	501	GTP	C2-N3	2.12	1.38	1.33
47	HE	501	GTP	C2-N3	2.12	1.38	1.33
47	JE	501	GTP	C2-N3	2.12	1.38	1.33
47	TG	501	GTP	C2-N3	2.12	1.38	1.33
47	WK	501	GTP	C2-N3	2.12	1.38	1.33
47	KM	501	GTP	C2-N3	2.12	1.38	1.33
47	SE	501	GTP	C2-N3	2.12	1.38	1.33
47	EE	501	GTP	C2-N3	2.12	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	KI	501	GTP	C2-N3	2.11	1.38	1.33
47	NC	501	GTP	C2-N3	2.11	1.38	1.33
47	VI	501	GTP	C2-N3	2.11	1.38	1.33
47	SG	501	GTP	C2-N3	2.11	1.38	1.33
47	MK	501	GTP	C2-N3	2.11	1.38	1.33
47	TI	501	GTP	C2-N3	2.11	1.38	1.33
47	CC	501	GTP	C2-N3	2.11	1.38	1.33
47	LC	501	GTP	C2-N3	2.11	1.38	1.33
47	TE	501	GTP	C2-N3	2.11	1.38	1.33
47	IG	501	GTP	C2-N3	2.10	1.38	1.33
47	KC	501	GTP	C2-N3	2.10	1.38	1.33
47	LM	501	GTP	C2-N3	2.10	1.38	1.33
47	TK	501	GTP	C2-N3	2.10	1.38	1.33
47	FE	501	GTP	C2-N3	2.10	1.38	1.33
47	OK	501	GTP	C2-N3	2.10	1.38	1.33
47	JI	501	GTP	C2-N3	2.10	1.38	1.33
47	AA	501	GTP	C2-N3	2.09	1.38	1.33
47	MI	501	GTP	C2-N3	2.09	1.38	1.33
47	MG	501	GTP	C2-N3	2.09	1.38	1.33
47	MM	501	GTP	C2-N3	2.08	1.38	1.33
47	KK	501	GTP	C2-N3	2.08	1.38	1.33
47	FG	501	GTP	C2-N3	2.07	1.38	1.33
47	LE	501	GTP	C2-N3	2.06	1.38	1.33
47	SK	501	GTP	C2-N3	2.06	1.38	1.33
47	FI	501	GTP	C2-N3	2.05	1.38	1.33
47	WE	501	GTP	C2-N3	2.04	1.38	1.33

All (1762) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	LM	501	GTP	PB-O3B-PG	-4.64	116.89	132.83
47	IK	501	GTP	PB-O3B-PG	-4.42	117.65	132.83
49	AF	501	GDP	PA-O3A-PB	-4.37	117.84	132.83
47	HK	501	GTP	PB-O3B-PG	-4.33	117.96	132.83
49	LD	501	GDP	PA-O3A-PB	-4.33	117.96	132.83
49	JH	501	GDP	PA-O3A-PB	-4.32	118.00	132.83
47	MM	501	GTP	PB-O3B-PG	-4.30	118.08	132.83
49	LH	501	GDP	PA-O3A-PB	-4.28	118.12	132.83
49	BF	501	GDP	PA-O3A-PB	-4.26	118.20	132.83
49	GD	501	GDP	PA-O3A-PB	-4.24	118.28	132.83
49	KL	501	GDP	PA-O3A-PB	-4.23	118.30	132.83
49	AL	501	GDP	PA-O3A-PB	-4.23	118.31	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	VG	501	GTP	PB-O3B-PG	-4.22	118.34	132.83
47	UE	501	GTP	PB-O3B-PG	-4.22	118.34	132.83
49	MD	501	GDP	PA-O3A-PB	-4.21	118.39	132.83
47	GG	501	GTP	PB-O3B-PG	-4.20	118.41	132.83
49	GH	501	GDP	PA-O3A-PB	-4.19	118.45	132.83
47	VC	501	GTP	PB-O3B-PG	-4.18	118.47	132.83
47	CC	501	GTP	PB-O3B-PG	-4.18	118.50	132.83
47	GE	501	GTP	PB-O3B-PG	-4.17	118.51	132.83
49	JJ	501	GDP	PA-O3A-PB	-4.17	118.51	132.83
49	JL	501	GDP	PA-O3A-PB	-4.16	118.55	132.83
49	BJ	501	GDP	PA-O3A-PB	-4.16	118.55	132.83
47	HI	501	GTP	PB-O3B-PG	-4.16	118.56	132.83
49	FF	501	GDP	PA-O3A-PB	-4.15	118.58	132.83
49	HH	501	GDP	PA-O3A-PB	-4.15	118.59	132.83
49	LL	501	GDP	PA-O3A-PB	-4.15	118.60	132.83
47	WE	501	GTP	PB-O3B-PG	-4.14	118.60	132.83
47	JI	501	GTP	PB-O3B-PG	-4.14	118.62	132.83
47	JE	501	GTP	PB-O3B-PG	-4.13	118.65	132.83
49	FD	501	GDP	PA-O3A-PB	-4.13	118.65	132.83
49	MB	501	GDP	PA-O3A-PB	-4.13	118.66	132.83
47	IM	501	GTP	PB-O3B-PG	-4.13	118.66	132.83
49	GN	502	GDP	PA-O3A-PB	-4.12	118.67	132.83
49	UF	501	GDP	PA-O3A-PB	-4.12	118.68	132.83
49	LF	501	GDP	PA-O3A-PB	-4.12	118.69	132.83
47	KI	501	GTP	PB-O3B-PG	-4.12	118.70	132.83
47	HE	501	GTP	PB-O3B-PG	-4.11	118.72	132.83
47	AG	501	GTP	PB-O3B-PG	-4.10	118.75	132.83
49	LN	501	GDP	PA-O3A-PB	-4.09	118.79	132.83
49	HL	501	GDP	PA-O3A-PB	-4.09	118.79	132.83
49	BN	501	GDP	PA-O3A-PB	-4.08	118.84	132.83
47	WA	501	GTP	PB-O3B-PG	-4.08	118.84	132.83
49	KD	501	GDP	PA-O3A-PB	-4.08	118.84	132.83
47	FE	501	GTP	PB-O3B-PG	-4.07	118.84	132.83
47	CI	501	GTP	PB-O3B-PG	-4.07	118.86	132.83
47	CG	501	GTP	PB-O3B-PG	-4.06	118.89	132.83
47	BI	501	GTP	PB-O3B-PG	-4.06	118.90	132.83
49	OJ	501	GDP	PA-O3A-PB	-4.06	118.91	132.83
49	AN	501	GDP	PA-O3A-PB	-4.06	118.91	132.83
47	HC	501	GTP	PB-O3B-PG	-4.05	118.93	132.83
49	FL	502	GDP	PA-O3A-PB	-4.05	118.94	132.83
49	JF	501	GDP	PA-O3A-PB	-4.04	118.97	132.83
49	NF	501	GDP	PA-O3A-PB	-4.04	118.97	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	BC	502	GTP	PB-O3B-PG	-4.03	118.98	132.83
47	AM	501	GTP	PB-O3B-PG	-4.03	118.99	132.83
47	TE	501	GTP	PB-O3B-PG	-4.02	119.04	132.83
47	QK	501	GTP	PB-O3B-PG	-4.02	119.04	132.83
47	FK	501	GTP	PB-O3B-PG	-4.01	119.08	132.83
49	TF	501	GDP	PA-O3A-PB	-4.01	119.08	132.83
47	UC	501	GTP	PB-O3B-PG	-4.01	119.08	132.83
47	BK	501	GTP	PB-O3B-PG	-4.01	119.08	132.83
47	WI	501	GTP	PB-O3B-PG	-4.00	119.09	132.83
47	GC	501	GTP	PB-O3B-PG	-4.00	119.10	132.83
47	AI	501	GTP	PB-O3B-PG	-3.99	119.12	132.83
49	HF	501	GDP	PA-O3A-PB	-3.99	119.12	132.83
49	KF	501	GDP	PA-O3A-PB	-3.99	119.12	132.83
47	IE	501	GTP	PB-O3B-PG	-3.99	119.13	132.83
47	FI	501	GTP	PB-O3B-PG	-3.99	119.14	132.83
47	WG	501	GTP	PB-O3B-PG	-3.99	119.14	132.83
47	UM	501	GTP	PB-O3B-PG	-3.99	119.15	132.83
47	JE	501	GTP	PA-O3A-PB	-3.99	119.15	132.83
49	IF	501	GDP	PA-O3A-PB	-3.98	119.16	132.83
49	NJ	501	GDP	PA-O3A-PB	-3.98	119.16	132.83
47	LI	501	GTP	PB-O3B-PG	-3.98	119.18	132.83
49	BH	501	GDP	PA-O3A-PB	-3.98	119.18	132.83
49	JB	501	GDP	PA-O3A-PB	-3.98	119.18	132.83
47	JA	501	GTP	PB-O3B-PG	-3.98	119.18	132.83
47	VI	501	GTP	PB-O3B-PG	-3.97	119.19	132.83
47	NK	501	GTP	PA-O3A-PB	-3.97	119.19	132.83
47	PI	501	GTP	PB-O3B-PG	-3.97	119.20	132.83
49	VH	501	GDP	PA-O3A-PB	-3.97	119.20	132.83
47	OK	501	GTP	PB-O3B-PG	-3.97	119.20	132.83
49	UN	501	GDP	PA-O3A-PB	-3.97	119.20	132.83
47	BE	501	GTP	PB-O3B-PG	-3.97	119.21	132.83
49	TJ	501	GDP	PA-O3A-PB	-3.97	119.21	132.83
47	LA	501	GTP	PB-O3B-PG	-3.97	119.21	132.83
49	SH	501	GDP	PA-O3A-PB	-3.97	119.22	132.83
47	EK	501	GTP	PB-O3B-PG	-3.96	119.23	132.83
49	NN	501	GDP	PA-O3A-PB	-3.96	119.24	132.83
49	BL	501	GDP	PA-O3A-PB	-3.96	119.24	132.83
47	PK	501	GTP	PB-O3B-PG	-3.96	119.25	132.83
47	KE	501	GTP	PB-O3B-PG	-3.96	119.25	132.83
49	KN	501	GDP	PA-O3A-PB	-3.96	119.25	132.83
47	FG	501	GTP	PB-O3B-PG	-3.94	119.29	132.83
49	ND	502	GDP	PA-O3A-PB	-3.94	119.30	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	GJ	501	GDP	PA-O3A-PB	-3.94	119.30	132.83
49	NL	501	GDP	PA-O3A-PB	-3.94	119.31	132.83
49	SL	501	GDP	PA-O3A-PB	-3.94	119.31	132.83
49	SF	501	GDP	PA-O3A-PB	-3.94	119.32	132.83
49	IL	501	GDP	PA-O3A-PB	-3.94	119.32	132.83
47	GK	501	GTP	PB-O3B-PG	-3.93	119.33	132.83
47	KK	501	GTP	PB-O3B-PG	-3.93	119.33	132.83
47	KM	501	GTP	PB-O3B-PG	-3.93	119.33	132.83
47	VA	501	GTP	PB-O3B-PG	-3.93	119.33	132.83
47	HG	501	GTP	PB-O3B-PG	-3.93	119.34	132.83
47	HC	501	GTP	PA-O3A-PB	-3.93	119.35	132.83
47	JG	501	GTP	PB-O3B-PG	-3.93	119.36	132.83
47	AC	501	GTP	PB-O3B-PG	-3.92	119.36	132.83
47	TK	501	GTP	PB-O3B-PG	-3.92	119.36	132.83
47	IC	501	GTP	PB-O3B-PG	-3.92	119.38	132.83
47	MC	501	GTP	PB-O3B-PG	-3.92	119.39	132.83
49	VF	501	GDP	PA-O3A-PB	-3.91	119.41	132.83
47	FC	501	GTP	PB-O3B-PG	-3.91	119.41	132.83
49	CJ	501	GDP	PA-O3A-PB	-3.91	119.42	132.83
47	KG	501	GTP	PB-O3B-PG	-3.90	119.45	132.83
49	HJ	501	GDP	PA-O3A-PB	-3.89	119.47	132.83
47	GI	501	GTP	PB-O3B-PG	-3.89	119.48	132.83
49	LJ	501	GDP	PA-O3A-PB	-3.89	119.49	132.83
49	VN	501	GDP	PA-O3A-PB	-3.88	119.50	132.83
49	TH	501	GDP	PA-O3A-PB	-3.88	119.50	132.83
49	EF	501	GDP	PA-O3A-PB	-3.88	119.51	132.83
47	PM	501	GTP	PB-O3B-PG	-3.88	119.52	132.83
49	FJ	501	GDP	PA-O3A-PB	-3.88	119.53	132.83
49	UD	501	GDP	PA-O3A-PB	-3.87	119.53	132.83
47	KC	501	GTP	PB-O3B-PG	-3.87	119.54	132.83
49	AD	501	GDP	PA-O3A-PB	-3.87	119.54	132.83
49	JD	501	GDP	PA-O3A-PB	-3.87	119.54	132.83
47	BG	501	GTP	PB-O3B-PG	-3.87	119.55	132.83
49	ID	501	GDP	PA-O3A-PB	-3.87	119.55	132.83
47	ME	501	GTP	PB-O3B-PG	-3.87	119.55	132.83
49	SD	501	GDP	PA-O3A-PB	-3.87	119.55	132.83
49	WH	501	GDP	PA-O3A-PB	-3.87	119.56	132.83
47	QI	501	GTP	PB-O3B-PG	-3.86	119.57	132.83
47	KA	501	GTP	PB-O3B-PG	-3.86	119.57	132.83
47	CK	501	GTP	PB-O3B-PG	-3.86	119.58	132.83
47	JK	501	GTP	PB-O3B-PG	-3.86	119.58	132.83
49	OL	501	GDP	PA-O3A-PB	-3.86	119.58	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	AK	501	GTP	PB-O3B-PG	-3.85	119.60	132.83
47	JI	501	GTP	PA-O3A-PB	-3.85	119.62	132.83
49	VL	501	GDP	PA-O3A-PB	-3.84	119.64	132.83
47	IG	501	GTP	PB-O3B-PG	-3.84	119.64	132.83
49	MJ	501	GDP	PA-O3A-PB	-3.84	119.66	132.83
49	GF	501	GDP	PA-O3A-PB	-3.83	119.67	132.83
47	DI	501	GTP	PB-O3B-PG	-3.83	119.68	132.83
49	VJ	501	GDP	PA-O3A-PB	-3.83	119.68	132.83
49	KB	501	GDP	PA-O3A-PB	-3.83	119.69	132.83
49	WL	501	GDP	PA-O3A-PB	-3.82	119.71	132.83
47	MG	501	GTP	PB-O3B-PG	-3.82	119.71	132.83
47	KI	501	GTP	PA-O3A-PB	-3.82	119.72	132.83
49	TD	501	GDP	PA-O3A-PB	-3.81	119.74	132.83
49	OF	502	GDP	PA-O3A-PB	-3.80	119.78	132.83
47	VE	501	GTP	PB-O3B-PG	-3.80	119.79	132.83
47	SK	501	GTP	PB-O3B-PG	-3.79	119.81	132.83
47	PG	501	GTP	PB-O3B-PG	-3.79	119.82	132.83
47	PE	501	GTP	PB-O3B-PG	-3.79	119.82	132.83
47	FI	501	GTP	PA-O3A-PB	-3.79	119.83	132.83
49	OH	501	GDP	PA-O3A-PB	-3.79	119.83	132.83
47	TI	501	GTP	PB-O3B-PG	-3.78	119.84	132.83
47	UI	501	GTP	PB-O3B-PG	-3.78	119.85	132.83
47	QE	501	GTP	PB-O3B-PG	-3.78	119.85	132.83
49	IJ	501	GDP	PA-O3A-PB	-3.77	119.88	132.83
49	VD	501	GDP	PA-O3A-PB	-3.77	119.89	132.83
49	NB	501	GDP	PA-O3A-PB	-3.77	119.91	132.83
47	NC	501	GTP	PA-O3A-PB	-3.76	119.91	132.83
47	WC	501	GTP	PB-O3B-PG	-3.76	119.91	132.83
47	LM	501	GTP	PA-O3A-PB	-3.76	119.92	132.83
49	HN	501	GDP	PA-O3A-PB	-3.76	119.92	132.83
47	MI	501	GTP	PB-O3B-PG	-3.76	119.92	132.83
47	BM	501	GTP	PB-O3B-PG	-3.76	119.93	132.83
49	NH	501	GDP	PA-O3A-PB	-3.75	119.94	132.83
47	AI	501	GTP	PA-O3A-PB	-3.75	119.94	132.83
47	CM	501	GTP	PB-O3B-PG	-3.75	119.94	132.83
47	GE	501	GTP	PA-O3A-PB	-3.75	119.95	132.83
47	UK	501	GTP	PB-O3B-PG	-3.75	119.95	132.83
47	IC	501	GTP	PA-O3A-PB	-3.74	119.98	132.83
47	MK	501	GTP	PB-O3B-PG	-3.74	119.99	132.83
47	AA	501	GTP	PB-O3B-PG	-3.74	119.99	132.83
47	FG	501	GTP	PA-O3A-PB	-3.74	120.00	132.83
47	MK	501	GTP	PA-O3A-PB	-3.74	120.00	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	WF	501	GDP	PA-O3A-PB	-3.74	120.00	132.83
47	MA	501	GTP	PA-O3A-PB	-3.73	120.01	132.83
47	HI	501	GTP	PA-O3A-PB	-3.73	120.01	132.83
49	CL	501	GDP	PA-O3A-PB	-3.73	120.02	132.83
49	AH	501	GDP	PA-O3A-PB	-3.73	120.03	132.83
47	WK	501	GTP	PB-O3B-PG	-3.73	120.03	132.83
47	IE	501	GTP	PA-O3A-PB	-3.73	120.03	132.83
47	OF	501	GTP	PA-O3A-PB	-3.73	120.03	132.83
47	SE	501	GTP	PB-O3B-PG	-3.72	120.05	132.83
47	IA	501	GTP	PB-O3B-PG	-3.72	120.06	132.83
47	GC	501	GTP	PA-O3A-PB	-3.72	120.06	132.83
49	RJ	501	GDP	PA-O3A-PB	-3.72	120.06	132.83
49	WB	501	GDP	PA-O3A-PB	-3.72	120.06	132.83
49	BD	501	GDP	PA-O3A-PB	-3.72	120.06	132.83
47	AE	501	GTP	PB-O3B-PG	-3.72	120.07	132.83
49	WN	501	GDP	PA-O3A-PB	-3.72	120.08	132.83
47	CE	501	GTP	PB-O3B-PG	-3.72	120.08	132.83
47	LE	501	GTP	PB-O3B-PG	-3.71	120.08	132.83
49	WD	501	GDP	PA-O3A-PB	-3.71	120.08	132.83
47	JM	501	GTP	PB-O3B-PG	-3.71	120.10	132.83
49	AB	501	GDP	PA-O3A-PB	-3.70	120.12	132.83
49	UH	501	GDP	PA-O3A-PB	-3.69	120.16	132.83
47	SC	501	GTP	PB-O3B-PG	-3.69	120.16	132.83
47	DM	501	GTP	PB-O3B-PG	-3.69	120.17	132.83
49	MF	501	GDP	PA-O3A-PB	-3.67	120.22	132.83
49	GL	502	GDP	PA-O3A-PB	-3.67	120.22	132.83
47	PA	501	GTP	PB-O3B-PG	-3.67	120.22	132.83
47	JG	501	GTP	PA-O3A-PB	-3.67	120.24	132.83
47	LA	501	GTP	PA-O3A-PB	-3.67	120.24	132.83
49	AJ	501	GDP	PA-O3A-PB	-3.67	120.25	132.83
49	QJ	501	GDP	PA-O3A-PB	-3.67	120.25	132.83
47	RM	501	GTP	PB-O3B-PG	-3.66	120.26	132.83
47	TM	501	GTP	PB-O3B-PG	-3.66	120.27	132.83
49	KJ	501	GDP	PA-O3A-PB	-3.66	120.27	132.83
47	CE	501	GTP	PA-O3A-PB	-3.66	120.28	132.83
49	PJ	501	GDP	PA-O3A-PB	-3.66	120.28	132.83
47	JA	501	GTP	PA-O3A-PB	-3.65	120.29	132.83
47	KK	501	GTP	PA-O3A-PB	-3.65	120.29	132.83
47	EC	501	GTP	PB-O3B-PG	-3.65	120.30	132.83
47	FE	501	GTP	PA-O3A-PB	-3.65	120.30	132.83
47	UG	501	GTP	PB-O3B-PG	-3.65	120.30	132.83
49	CN	501	GDP	PA-O3A-PB	-3.65	120.30	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	BA	501	GTP	PB-O3B-PG	-3.65	120.30	132.83
49	JN	501	GDP	PA-O3A-PB	-3.65	120.30	132.83
49	QD	501	GDP	PA-O3A-PB	-3.65	120.31	132.83
49	SJ	501	GDP	PA-O3A-PB	-3.65	120.32	132.83
47	RK	501	GTP	PB-O3B-PG	-3.64	120.33	132.83
47	RI	501	GTP	PB-O3B-PG	-3.64	120.33	132.83
47	DG	501	GTP	PB-O3B-PG	-3.64	120.33	132.83
47	AC	501	GTP	PA-O3A-PB	-3.64	120.33	132.83
47	BG	501	GTP	PA-O3A-PB	-3.64	120.33	132.83
47	SI	501	GTP	PB-O3B-PG	-3.64	120.34	132.83
47	EG	501	GTP	PB-O3B-PG	-3.64	120.34	132.83
49	DJ	501	GDP	PA-O3A-PB	-3.64	120.34	132.83
49	TN	501	GDP	PA-O3A-PB	-3.63	120.35	132.83
47	HK	501	GTP	PA-O3A-PB	-3.63	120.36	132.83
47	MA	501	GTP	PB-O3B-PG	-3.63	120.37	132.83
47	LK	501	GTP	PB-O3B-PG	-3.63	120.38	132.83
47	MC	501	GTP	PA-O3A-PB	-3.63	120.38	132.83
49	FN	501	GDP	PA-O3A-PB	-3.63	120.38	132.83
47	NA	501	GTP	PB-O3B-PG	-3.63	120.38	132.83
49	IN	501	GDP	PA-O3A-PB	-3.63	120.39	132.83
49	KH	501	GDP	PA-O3A-PB	-3.62	120.39	132.83
49	EB	501	GDP	PA-O3A-PB	-3.62	120.39	132.83
47	TC	501	GTP	PB-O3B-PG	-3.62	120.40	132.83
47	II	501	GTP	PA-O3A-PB	-3.62	120.40	132.83
47	KG	501	GTP	PA-O3A-PB	-3.62	120.42	132.83
49	UB	501	GDP	PA-O3A-PB	-3.62	120.42	132.83
49	MH	501	GDP	PA-O3A-PB	-3.61	120.42	132.83
49	MN	501	GDP	PA-O3A-PB	-3.61	120.43	132.83
47	GA	501	GTP	PB-O3B-PG	-3.61	120.43	132.83
47	OC	501	GTP	PA-O3A-PB	-3.61	120.43	132.83
49	CB	501	GDP	PA-O3A-PB	-3.61	120.43	132.83
49	WJ	501	GDP	PA-O3A-PB	-3.61	120.44	132.83
49	LB	501	GDP	PA-O3A-PB	-3.60	120.46	132.83
49	BB	501	GDP	PA-O3A-PB	-3.60	120.46	132.83
49	QN	501	GDP	PA-O3A-PB	-3.60	120.46	132.83
47	IK	501	GTP	PA-O3A-PB	-3.60	120.47	132.83
49	TB	501	GDP	PA-O3A-PB	-3.60	120.47	132.83
47	OI	501	GTP	PA-O3A-PB	-3.60	120.48	132.83
47	QM	501	GTP	PA-O3A-PB	-3.60	120.48	132.83
47	NE	501	GTP	PB-O3B-PG	-3.60	120.48	132.83
49	GB	502	GDP	PA-O3A-PB	-3.59	120.50	132.83
47	KE	501	GTP	PA-O3A-PB	-3.59	120.50	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	SG	501	GTP	PB-O3B-PG	-3.59	120.51	132.83
47	FC	501	GTP	PA-O3A-PB	-3.59	120.51	132.83
49	SN	501	GDP	PA-O3A-PB	-3.59	120.52	132.83
47	RE	501	GTP	PB-O3B-PG	-3.59	120.52	132.83
49	HB	501	GDP	PA-O3A-PB	-3.58	120.53	132.83
49	PB	501	GDP	PA-O3A-PB	-3.58	120.53	132.83
47	AE	501	GTP	PA-O3A-PB	-3.58	120.53	132.83
47	NG	501	GTP	PA-O3A-PB	-3.58	120.53	132.83
47	TG	501	GTP	PB-O3B-PG	-3.58	120.54	132.83
49	DN	501	GDP	PA-O3A-PB	-3.58	120.54	132.83
49	EJ	501	GDP	PA-O3A-PB	-3.58	120.54	132.83
49	FB	501	GDP	PA-O3A-PB	-3.58	120.55	132.83
47	GK	501	GTP	PA-O3A-PB	-3.57	120.57	132.83
47	BM	501	GTP	PA-O3A-PB	-3.57	120.58	132.83
47	MG	501	GTP	PA-O3A-PB	-3.57	120.58	132.83
47	OG	501	GTP	PA-O3A-PB	-3.57	120.59	132.83
49	HD	501	GDP	PA-O3A-PB	-3.56	120.60	132.83
49	DB	501	GDP	PA-O3A-PB	-3.56	120.60	132.83
49	RN	501	GDP	PA-O3A-PB	-3.56	120.60	132.83
47	UG	501	GTP	PA-O3A-PB	-3.56	120.62	132.83
49	OB	501	GDP	PA-O3A-PB	-3.55	120.63	132.83
49	ON	501	GDP	PA-O3A-PB	-3.55	120.64	132.83
47	EI	501	GTP	PB-O3B-PG	-3.55	120.66	132.83
49	UL	501	GDP	PA-O3A-PB	-3.55	120.66	132.83
49	IN	501	GDP	C3'-C2'-C1'	3.54	106.31	100.98
47	KA	501	GTP	PA-O3A-PB	-3.54	120.69	132.83
49	SB	501	GDP	PA-O3A-PB	-3.54	120.69	132.83
49	RD	501	GDP	PA-O3A-PB	-3.53	120.70	132.83
47	PK	501	GTP	C5-C6-N1	3.53	120.19	113.95
47	KC	501	GTP	PA-O3A-PB	-3.53	120.70	132.83
47	DK	501	GTP	PB-O3B-PG	-3.53	120.70	132.83
47	EE	501	GTP	PB-O3B-PG	-3.53	120.71	132.83
49	IH	501	GDP	PA-O3A-PB	-3.52	120.73	132.83
49	ML	501	GDP	PA-O3A-PB	-3.52	120.73	132.83
47	LI	501	GTP	PA-O3A-PB	-3.52	120.73	132.83
47	MI	501	GTP	PA-O3A-PB	-3.52	120.74	132.83
47	EE	501	GTP	PA-O3A-PB	-3.52	120.74	132.83
49	SB	501	GDP	C3'-C2'-C1'	3.52	106.28	100.98
49	FH	501	GDP	PA-O3A-PB	-3.52	120.74	132.83
47	QG	501	GTP	C5-C6-N1	3.52	120.17	113.95
47	TC	501	GTP	PA-O3A-PB	-3.52	120.75	132.83
47	SM	501	GTP	PB-O3B-PG	-3.52	120.75	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	VK	501	GTP	PB-O3B-PG	-3.51	120.77	132.83
47	RE	501	GTP	PA-O3A-PB	-3.51	120.77	132.83
47	VE	501	GTP	C5-C6-N1	3.51	120.15	113.95
47	ME	501	GTP	PA-O3A-PB	-3.51	120.78	132.83
47	WM	501	GTP	PB-O3B-PG	-3.51	120.78	132.83
47	II	501	GTP	PB-O3B-PG	-3.50	120.80	132.83
47	QC	501	GTP	PB-O3B-PG	-3.50	120.80	132.83
47	RC	501	GTP	PB-O3B-PG	-3.50	120.80	132.83
49	RL	501	GDP	PA-O3A-PB	-3.50	120.81	132.83
47	CM	501	GTP	PA-O3A-PB	-3.50	120.82	132.83
47	AG	501	GTP	PA-O3A-PB	-3.50	120.82	132.83
47	VI	501	GTP	PA-O3A-PB	-3.49	120.83	132.83
47	QM	501	GTP	PB-O3B-PG	-3.49	120.84	132.83
49	RB	501	GDP	PA-O3A-PB	-3.49	120.84	132.83
49	OD	501	GDP	PA-O3A-PB	-3.49	120.84	132.83
47	OA	501	GTP	PB-O3B-PG	-3.49	120.85	132.83
47	DC	501	GTP	PB-O3B-PG	-3.48	120.87	132.83
49	UJ	501	GDP	PA-O3A-PB	-3.47	120.91	132.83
47	DE	501	GTP	PB-O3B-PG	-3.47	120.91	132.83
49	AB	501	GDP	C3'-C2'-C1'	3.47	106.20	100.98
47	DG	501	GTP	PA-O3A-PB	-3.47	120.91	132.83
49	CF	501	GDP	PA-O3A-PB	-3.47	120.92	132.83
47	BC	502	GTP	PA-O3A-PB	-3.47	120.92	132.83
47	VM	501	GTP	PB-O3B-PG	-3.47	120.93	132.83
47	GG	501	GTP	PA-O3A-PB	-3.46	120.94	132.83
47	KM	501	GTP	PA-O3A-PB	-3.46	120.96	132.83
47	SA	501	GTP	PB-O3B-PG	-3.46	120.97	132.83
49	PH	501	GDP	PA-O3A-PB	-3.46	120.97	132.83
47	SE	501	GTP	PA-O3A-PB	-3.45	120.99	132.83
49	HD	501	GDP	C3'-C2'-C1'	3.45	106.17	100.98
47	UE	501	GTP	PA-O3A-PB	-3.44	121.00	132.83
49	WN	501	GDP	C3'-C2'-C1'	3.44	106.16	100.98
49	MD	501	GDP	C3'-C2'-C1'	3.44	106.16	100.98
47	TA	501	GTP	PB-O3B-PG	-3.44	121.01	132.83
47	UC	501	GTP	PA-O3A-PB	-3.44	121.01	132.83
49	DD	501	GDP	PA-O3A-PB	-3.44	121.02	132.83
49	VB	501	GDP	PA-O3A-PB	-3.44	121.02	132.83
47	PM	501	GTP	PA-O3A-PB	-3.44	121.02	132.83
49	VN	501	GDP	C3'-C2'-C1'	3.44	106.15	100.98
49	TB	501	GDP	C3'-C2'-C1'	3.44	106.15	100.98
47	WC	501	GTP	PA-O3A-PB	-3.43	121.05	132.83
47	CA	501	GTP	PB-O3B-PG	-3.43	121.07	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	CI	501	GTP	PA-O3A-PB	-3.43	121.07	132.83
49	RH	501	GDP	PA-O3A-PB	-3.43	121.07	132.83
47	FA	501	GTP	C5-C6-N1	3.43	120.00	113.95
47	HE	501	GTP	C5-C6-N1	3.43	120.00	113.95
47	LC	501	GTP	PB-O3B-PG	-3.42	121.08	132.83
47	PD	501	GTP	PA-O3A-PB	-3.42	121.09	132.83
47	GM	501	GTP	PB-O3B-PG	-3.42	121.09	132.83
47	PG	501	GTP	PA-O3A-PB	-3.42	121.09	132.83
47	QA	501	GTP	PB-O3B-PG	-3.42	121.10	132.83
47	SG	501	GTP	PA-O3A-PB	-3.41	121.11	132.83
49	AN	501	GDP	C3'-C2'-C1'	3.41	106.12	100.98
49	QB	501	GDP	C3'-C2'-C1'	3.41	106.11	100.98
47	EA	501	GTP	PB-O3B-PG	-3.41	121.12	132.83
47	UA	501	GTP	PB-O3B-PG	-3.41	121.12	132.83
47	GA	501	GTP	PA-O3A-PB	-3.41	121.12	132.83
47	RA	501	GTP	PB-O3B-PG	-3.41	121.13	132.83
47	QE	501	GTP	C5-C6-N1	3.41	119.97	113.95
49	PF	501	GDP	PA-O3A-PB	-3.41	121.13	132.83
47	HG	501	GTP	C5-C6-N1	3.41	119.97	113.95
49	ED	501	GDP	PA-O3A-PB	-3.40	121.15	132.83
47	BG	501	GTP	C5-C6-N1	3.40	119.96	113.95
47	VC	501	GTP	C5-C6-N1	3.40	119.95	113.95
47	RG	501	GTP	PB-O3B-PG	-3.40	121.17	132.83
47	JM	501	GTP	PA-O3A-PB	-3.39	121.18	132.83
47	DI	501	GTP	C5-C6-N1	3.39	119.94	113.95
49	BN	501	GDP	C3'-C2'-C1'	3.39	106.09	100.98
47	PD	501	GTP	PB-O3B-PG	-3.39	121.19	132.83
47	FI	501	GTP	C5-C6-N1	3.39	119.94	113.95
47	WG	501	GTP	PA-O3A-PB	-3.39	121.20	132.83
47	CE	501	GTP	C5-C6-N1	3.39	119.93	113.95
47	PE	501	GTP	C5-C6-N1	3.39	119.93	113.95
47	IK	501	GTP	C5-C6-N1	3.38	119.93	113.95
47	RI	501	GTP	C5-C6-N1	3.38	119.93	113.95
47	HI	501	GTP	C5-C6-N1	3.38	119.92	113.95
47	WI	501	GTP	C5-C6-N1	3.38	119.92	113.95
49	TL	501	GDP	PA-O3A-PB	-3.38	121.23	132.83
47	TM	501	GTP	PA-O3A-PB	-3.38	121.23	132.83
47	BI	501	GTP	PA-O3A-PB	-3.38	121.23	132.83
49	SL	501	GDP	C3'-C2'-C1'	3.38	106.06	100.98
47	VG	501	GTP	PA-O3A-PB	-3.38	121.23	132.83
47	AC	501	GTP	C5-C6-N1	3.38	119.92	113.95
47	KE	501	GTP	C5-C6-N1	3.38	119.92	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	GK	501	GTP	C5-C6-N1	3.38	119.92	113.95
49	CB	501	GDP	C3'-C2'-C1'	3.38	106.06	100.98
49	OB	501	GDP	C3'-C2'-C1'	3.38	106.06	100.98
47	FK	501	GTP	PA-O3A-PB	-3.38	121.24	132.83
47	LC	501	GTP	C5-C6-N1	3.37	119.91	113.95
49	EN	501	GDP	PA-O3A-PB	-3.37	121.25	132.83
49	HN	501	GDP	C3'-C2'-C1'	3.37	106.06	100.98
47	OF	501	GTP	C5-C6-N1	3.37	119.90	113.95
49	EL	501	GDP	PA-O3A-PB	-3.37	121.26	132.83
47	HA	501	GTP	PB-O3B-PG	-3.37	121.27	132.83
47	ME	501	GTP	C5-C6-N1	3.37	119.90	113.95
47	WM	501	GTP	PA-O3A-PB	-3.37	121.27	132.83
47	RI	501	GTP	PA-O3A-PB	-3.37	121.27	132.83
47	MI	501	GTP	C5-C6-N1	3.37	119.90	113.95
49	FD	501	GDP	C3'-C2'-C1'	3.37	106.05	100.98
49	FN	501	GDP	C3'-C2'-C1'	3.37	106.05	100.98
47	DM	501	GTP	PA-O3A-PB	-3.36	121.28	132.83
47	GE	501	GTP	C5-C6-N1	3.36	119.89	113.95
47	BA	501	GTP	PA-O3A-PB	-3.36	121.28	132.83
47	VA	501	GTP	C5-C6-N1	3.36	119.89	113.95
47	QC	501	GTP	C5-C6-N1	3.36	119.89	113.95
47	WE	501	GTP	C5-C6-N1	3.36	119.89	113.95
47	DA	501	GTP	PB-O3B-PG	-3.36	121.29	132.83
47	NG	501	GTP	C5-C6-N1	3.36	119.89	113.95
47	HM	501	GTP	PB-O3B-PG	-3.36	121.30	132.83
47	TC	501	GTP	C5-C6-N1	3.36	119.88	113.95
47	NK	501	GTP	C5-C6-N1	3.36	119.88	113.95
49	TL	501	GDP	C3'-C2'-C1'	3.36	106.03	100.98
49	WF	501	GDP	C3'-C2'-C1'	3.36	106.03	100.98
49	FB	501	GDP	C3'-C2'-C1'	3.36	106.03	100.98
49	OJ	501	GDP	C3'-C2'-C1'	3.36	106.03	100.98
49	SD	501	GDP	C3'-C2'-C1'	3.36	106.03	100.98
49	SN	501	GDP	C3'-C2'-C1'	3.36	106.03	100.98
47	AG	501	GTP	C5-C6-N1	3.36	119.88	113.95
47	AK	501	GTP	C5-C6-N1	3.36	119.88	113.95
47	MA	501	GTP	C5-C6-N1	3.36	119.88	113.95
49	SF	501	GDP	C3'-C2'-C1'	3.35	106.03	100.98
47	NI	501	GTP	C5-C6-N1	3.35	119.88	113.95
49	UB	501	GDP	C3'-C2'-C1'	3.35	106.03	100.98
47	AI	501	GTP	C5-C6-N1	3.35	119.87	113.95
47	HA	501	GTP	PA-O3A-PB	-3.35	121.32	132.83
49	ID	501	GDP	C3'-C2'-C1'	3.35	106.02	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	QK	501	GTP	C5-C6-N1	3.35	119.87	113.95
47	LE	501	GTP	C5-C6-N1	3.35	119.86	113.95
47	AA	501	GTP	C5-C6-N1	3.35	119.86	113.95
47	MM	501	GTP	C5-C6-N1	3.35	119.86	113.95
49	GN	502	GDP	C3'-C2'-C1'	3.35	106.02	100.98
47	KA	501	GTP	C5-C6-N1	3.35	119.86	113.95
47	HA	501	GTP	C5-C6-N1	3.35	119.86	113.95
47	KK	501	GTP	C5-C6-N1	3.35	119.86	113.95
49	HJ	501	GDP	C3'-C2'-C1'	3.35	106.02	100.98
49	DN	501	GDP	C3'-C2'-C1'	3.34	106.01	100.98
47	MC	501	GTP	C5-C6-N1	3.34	119.86	113.95
47	JE	501	GTP	C5-C6-N1	3.34	119.86	113.95
49	MB	501	GDP	C3'-C2'-C1'	3.34	106.01	100.98
49	PN	502	GDP	PA-O3A-PB	-3.34	121.35	132.83
47	PI	501	GTP	PA-O3A-PB	-3.34	121.35	132.83
47	FM	501	GTP	PB-O3B-PG	-3.34	121.36	132.83
47	OC	501	GTP	C5-C6-N1	3.34	119.85	113.95
47	KM	501	GTP	C5-C6-N1	3.34	119.85	113.95
47	OM	501	GTP	C5-C6-N1	3.34	119.85	113.95
49	CD	501	GDP	PA-O3A-PB	-3.34	121.36	132.83
49	EB	501	GDP	C3'-C2'-C1'	3.34	106.01	100.98
49	TD	501	GDP	C3'-C2'-C1'	3.34	106.00	100.98
49	BJ	501	GDP	C3'-C2'-C1'	3.34	106.00	100.98
49	PB	501	GDP	C3'-C2'-C1'	3.34	106.00	100.98
49	TF	501	GDP	C3'-C2'-C1'	3.34	106.00	100.98
49	TN	501	GDP	C3'-C2'-C1'	3.34	106.00	100.98
49	VF	501	GDP	C3'-C2'-C1'	3.34	106.00	100.98
47	AE	501	GTP	C5-C6-N1	3.34	119.84	113.95
47	OM	501	GTP	PA-O3A-PB	-3.34	121.37	132.83
49	VH	501	GDP	C3'-C2'-C1'	3.34	106.00	100.98
49	GB	502	GDP	C3'-C2'-C1'	3.34	106.00	100.98
47	FA	501	GTP	PB-O3B-PG	-3.33	121.39	132.83
49	QN	501	GDP	C3'-C2'-C1'	3.33	106.00	100.98
47	EK	501	GTP	C5-C6-N1	3.33	119.84	113.95
47	MK	501	GTP	C5-C6-N1	3.33	119.84	113.95
47	GI	501	GTP	C5-C6-N1	3.33	119.84	113.95
49	BB	501	GDP	C3'-C2'-C1'	3.33	106.00	100.98
49	HB	501	GDP	C3'-C2'-C1'	3.33	106.00	100.98
49	RN	501	GDP	C3'-C2'-C1'	3.33	105.99	100.98
49	WL	501	GDP	C3'-C2'-C1'	3.33	105.99	100.98
47	HK	501	GTP	C5-C6-N1	3.33	119.83	113.95
49	DD	501	GDP	C3'-C2'-C1'	3.33	105.99	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	BK	501	GTP	PA-O3A-PB	-3.33	121.41	132.83
49	OF	502	GDP	C3'-C2'-C1'	3.32	105.98	100.98
47	CG	501	GTP	C5-C6-N1	3.32	119.82	113.95
47	RC	501	GTP	C5-C6-N1	3.32	119.82	113.95
49	VB	501	GDP	C3'-C2'-C1'	3.32	105.98	100.98
47	RE	501	GTP	C5-C6-N1	3.32	119.82	113.95
47	VK	501	GTP	C5-C6-N1	3.32	119.82	113.95
47	TI	501	GTP	PA-O3A-PB	-3.32	121.43	132.83
47	PG	501	GTP	C5-C6-N1	3.32	119.81	113.95
49	DB	501	GDP	C3'-C2'-C1'	3.32	105.97	100.98
47	IC	501	GTP	C5-C6-N1	3.32	119.81	113.95
47	MG	501	GTP	C5-C6-N1	3.32	119.81	113.95
47	UE	501	GTP	C5-C6-N1	3.32	119.81	113.95
47	PI	501	GTP	C5-C6-N1	3.31	119.81	113.95
49	RL	501	GDP	C3'-C2'-C1'	3.31	105.97	100.98
47	GG	501	GTP	C5-C6-N1	3.31	119.80	113.95
47	IE	501	GTP	C5-C6-N1	3.31	119.80	113.95
47	IM	501	GTP	C5-C6-N1	3.31	119.80	113.95
49	TJ	501	GDP	C3'-C2'-C1'	3.31	105.97	100.98
47	SI	501	GTP	PA-O3A-PB	-3.31	121.46	132.83
49	NB	501	GDP	C3'-C2'-C1'	3.31	105.96	100.98
47	VA	501	GTP	PA-O3A-PB	-3.31	121.46	132.83
49	GL	502	GDP	C3'-C2'-C1'	3.31	105.96	100.98
47	HC	501	GTP	C5-C6-N1	3.31	119.80	113.95
47	BA	501	GTP	C5-C6-N1	3.31	119.80	113.95
49	QB	501	GDP	PA-O3A-PB	-3.31	121.47	132.83
47	TK	501	GTP	C5-C6-N1	3.31	119.79	113.95
49	UH	501	GDP	C3'-C2'-C1'	3.31	105.96	100.98
47	RK	501	GTP	C5-C6-N1	3.31	119.79	113.95
47	WC	501	GTP	C5-C6-N1	3.31	119.79	113.95
47	CK	501	GTP	C5-C6-N1	3.30	119.79	113.95
47	EI	501	GTP	C5-C6-N1	3.30	119.79	113.95
47	AM	501	GTP	C5-C6-N1	3.30	119.78	113.95
49	WB	501	GDP	C3'-C2'-C1'	3.30	105.95	100.98
47	KC	501	GTP	C5-C6-N1	3.30	119.78	113.95
47	VG	501	GTP	C5-C6-N1	3.30	119.78	113.95
47	UC	501	GTP	C5-C6-N1	3.30	119.78	113.95
47	DE	501	GTP	C5-C6-N1	3.30	119.78	113.95
47	LA	501	GTP	C5-C6-N1	3.30	119.78	113.95
47	NK	501	GTP	PB-O3B-PG	-3.30	121.51	132.83
47	GA	501	GTP	C5-C6-N1	3.30	119.77	113.95
47	OA	501	GTP	C5-C6-N1	3.30	119.77	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	UA	501	GTP	PA-O3A-PB	-3.30	121.52	132.83
47	EM	501	GTP	PB-O3B-PG	-3.29	121.52	132.83
49	QL	501	GDP	PA-O3A-PB	-3.29	121.52	132.83
47	GC	501	GTP	C5-C6-N1	3.29	119.77	113.95
47	TG	501	GTP	C5-C6-N1	3.29	119.77	113.95
47	WM	501	GTP	C5-C6-N1	3.29	119.77	113.95
49	AH	501	GDP	C3'-C2'-C1'	3.29	105.93	100.98
47	UK	501	GTP	C5-C6-N1	3.29	119.76	113.95
47	BC	502	GTP	C5-C6-N1	3.29	119.76	113.95
47	BI	501	GTP	C5-C6-N1	3.29	119.76	113.95
47	KG	501	GTP	C5-C6-N1	3.29	119.76	113.95
49	OH	501	GDP	C3'-C2'-C1'	3.29	105.93	100.98
49	UF	501	GDP	C3'-C2'-C1'	3.29	105.93	100.98
47	OA	501	GTP	PA-O3A-PB	-3.29	121.54	132.83
47	RG	501	GTP	PA-O3A-PB	-3.29	121.54	132.83
47	GM	501	GTP	PA-O3A-PB	-3.29	121.55	132.83
47	DC	501	GTP	C5-C6-N1	3.28	119.75	113.95
47	UI	501	GTP	C5-C6-N1	3.28	119.75	113.95
49	UJ	501	GDP	C3'-C2'-C1'	3.28	105.92	100.98
47	BK	501	GTP	C5-C6-N1	3.28	119.75	113.95
47	PK	501	GTP	PA-O3A-PB	-3.28	121.57	132.83
47	QC	501	GTP	PA-O3A-PB	-3.28	121.57	132.83
47	KI	501	GTP	C5-C6-N1	3.28	119.74	113.95
49	EL	501	GDP	C3'-C2'-C1'	3.28	105.91	100.98
49	PD	502	GDP	C3'-C2'-C1'	3.28	105.91	100.98
47	UK	501	GTP	PA-O3A-PB	-3.28	121.58	132.83
47	IA	501	GTP	C5-C6-N1	3.28	119.74	113.95
47	LK	501	GTP	C5-C6-N1	3.28	119.74	113.95
47	LG	501	GTP	PB-O3B-PG	-3.28	121.58	132.83
47	QM	501	GTP	C5-C6-N1	3.28	119.74	113.95
47	SG	501	GTP	C5-C6-N1	3.28	119.74	113.95
47	QA	501	GTP	PA-O3A-PB	-3.28	121.59	132.83
47	FG	501	GTP	C5-C6-N1	3.27	119.73	113.95
49	TH	501	GDP	C3'-C2'-C1'	3.27	105.91	100.98
47	TA	501	GTP	PA-O3A-PB	-3.27	121.59	132.83
49	HF	501	GDP	C3'-C2'-C1'	3.27	105.91	100.98
47	II	501	GTP	C5-C6-N1	3.27	119.73	113.95
47	GI	501	GTP	PA-O3A-PB	-3.27	121.60	132.83
49	DL	501	GDP	PA-O3A-PB	-3.27	121.60	132.83
47	FE	501	GTP	C5-C6-N1	3.27	119.73	113.95
47	LI	501	GTP	C5-C6-N1	3.27	119.73	113.95
47	WG	501	GTP	C5-C6-N1	3.27	119.72	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	EA	501	GTP	PA-O3A-PB	-3.27	121.61	132.83
47	PM	501	GTP	C5-C6-N1	3.27	119.72	113.95
49	AD	501	GDP	C3'-C2'-C1'	3.27	105.90	100.98
47	JK	501	GTP	C5-C6-N1	3.27	119.72	113.95
49	WJ	501	GDP	C3'-C2'-C1'	3.27	105.90	100.98
47	JG	501	GTP	C5-C6-N1	3.27	119.72	113.95
47	BM	501	GTP	C5-C6-N1	3.26	119.71	113.95
47	LG	501	GTP	C5-C6-N1	3.26	119.71	113.95
47	NC	501	GTP	C5-C6-N1	3.26	119.71	113.95
49	CL	501	GDP	C3'-C2'-C1'	3.26	105.89	100.98
47	RC	501	GTP	PA-O3A-PB	-3.26	121.63	132.83
49	RF	501	GDP	PA-O3A-PB	-3.26	121.63	132.83
47	IG	501	GTP	C5-C6-N1	3.26	119.71	113.95
47	SE	501	GTP	C5-C6-N1	3.26	119.71	113.95
49	VJ	501	GDP	C3'-C2'-C1'	3.26	105.89	100.98
47	NM	501	GTP	PB-O3B-PG	-3.26	121.64	132.83
47	CK	501	GTP	PA-O3A-PB	-3.26	121.64	132.83
47	DK	501	GTP	C5-C6-N1	3.26	119.70	113.95
49	IB	501	GDP	C3'-C2'-C1'	3.26	105.88	100.98
47	UM	501	GTP	C5-C6-N1	3.26	119.70	113.95
47	NG	501	GTP	PB-O3B-PG	-3.26	121.65	132.83
49	UN	501	GDP	C3'-C2'-C1'	3.26	105.88	100.98
49	NN	501	GDP	C3'-C2'-C1'	3.26	105.88	100.98
47	OG	501	GTP	C5-C6-N1	3.25	119.70	113.95
47	WK	501	GTP	C5-C6-N1	3.25	119.70	113.95
47	SA	501	GTP	PA-O3A-PB	-3.25	121.66	132.83
47	EG	501	GTP	C5-C6-N1	3.25	119.69	113.95
47	RA	501	GTP	PA-O3A-PB	-3.25	121.67	132.83
47	CA	501	GTP	C5-C6-N1	3.25	119.69	113.95
47	HM	501	GTP	C5-C6-N1	3.25	119.69	113.95
47	LM	501	GTP	C5-C6-N1	3.25	119.69	113.95
47	CC	501	GTP	C5-C6-N1	3.25	119.69	113.95
47	CI	501	GTP	C5-C6-N1	3.25	119.69	113.95
47	DM	501	GTP	C5-C6-N1	3.25	119.69	113.95
47	SM	501	GTP	C5-C6-N1	3.25	119.69	113.95
49	CD	501	GDP	C3'-C2'-C1'	3.25	105.87	100.98
49	JN	501	GDP	C3'-C2'-C1'	3.25	105.87	100.98
47	NE	501	GTP	C5-C6-N1	3.25	119.69	113.95
47	BE	501	GTP	PA-O3A-PB	-3.25	121.68	132.83
47	WA	501	GTP	C5-C6-N1	3.25	119.68	113.95
47	JC	501	GTP	C5-C6-N1	3.25	119.68	113.95
47	EE	501	GTP	C5-C6-N1	3.24	119.68	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	WE	501	GTP	PA-O3A-PB	-3.24	121.69	132.83
47	PD	501	GTP	C5-C6-N1	3.24	119.68	113.95
47	RM	501	GTP	C5-C6-N1	3.24	119.68	113.95
47	SI	501	GTP	C5-C6-N1	3.24	119.67	113.95
47	NM	501	GTP	C5-C6-N1	3.24	119.67	113.95
49	JB	501	GDP	C3'-C2'-C1'	3.24	105.85	100.98
47	VI	501	GTP	C5-C6-N1	3.24	119.67	113.95
47	EG	501	GTP	PA-O3A-PB	-3.24	121.72	132.83
47	CM	501	GTP	C5-C6-N1	3.24	119.67	113.95
47	OI	501	GTP	C5-C6-N1	3.24	119.67	113.95
47	HE	501	GTP	PA-O3A-PB	-3.24	121.72	132.83
47	RG	501	GTP	C5-C6-N1	3.23	119.66	113.95
47	DG	501	GTP	C5-C6-N1	3.23	119.66	113.95
47	RA	501	GTP	C5-C6-N1	3.23	119.66	113.95
47	JC	501	GTP	PB-O3B-PG	-3.23	121.73	132.83
49	PL	501	GDP	C3'-C2'-C1'	3.23	105.84	100.98
49	AF	501	GDP	C3'-C2'-C1'	3.23	105.84	100.98
47	CA	501	GTP	PA-O3A-PB	-3.23	121.75	132.83
47	QI	501	GTP	PA-O3A-PB	-3.23	121.75	132.83
47	EC	501	GTP	C5-C6-N1	3.23	119.65	113.95
47	JM	501	GTP	C5-C6-N1	3.23	119.65	113.95
49	DH	501	GDP	PA-O3A-PB	-3.23	121.75	132.83
49	OL	501	GDP	C3'-C2'-C1'	3.23	105.83	100.98
47	FM	501	GTP	C5-C6-N1	3.22	119.64	113.95
47	QI	501	GTP	C5-C6-N1	3.22	119.64	113.95
47	UG	501	GTP	C5-C6-N1	3.22	119.64	113.95
47	SK	501	GTP	C5-C6-N1	3.22	119.64	113.95
49	NF	501	GDP	C3'-C2'-C1'	3.22	105.83	100.98
47	BE	501	GTP	C5-C6-N1	3.22	119.64	113.95
47	AM	501	GTP	PA-O3A-PB	-3.22	121.78	132.83
47	TI	501	GTP	C5-C6-N1	3.22	119.63	113.95
47	PE	501	GTP	PA-O3A-PB	-3.22	121.79	132.83
47	TM	501	GTP	C5-C6-N1	3.22	119.63	113.95
47	JI	501	GTP	C5-C6-N1	3.21	119.63	113.95
49	PL	501	GDP	PA-O3A-PB	-3.21	121.80	132.83
47	TA	501	GTP	C5-C6-N1	3.21	119.62	113.95
47	TE	501	GTP	C5-C6-N1	3.21	119.62	113.95
49	JL	501	GDP	C3'-C2'-C1'	3.21	105.81	100.98
49	LN	501	GDP	C3'-C2'-C1'	3.21	105.81	100.98
47	WI	501	GTP	PA-O3A-PB	-3.21	121.81	132.83
47	FC	501	GTP	C5-C6-N1	3.21	119.62	113.95
49	DL	501	GDP	C3'-C2'-C1'	3.21	105.81	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	NI	501	GTP	PB-O3B-PG	-3.21	121.82	132.83
47	OK	501	GTP	C5-C6-N1	3.21	119.61	113.95
47	QA	501	GTP	C5-C6-N1	3.20	119.61	113.95
49	NJ	501	GDP	C3'-C2'-C1'	3.20	105.80	100.98
47	RG	501	GTP	C8-N7-C5	3.20	109.09	102.99
49	LB	501	GDP	C3'-C2'-C1'	3.20	105.80	100.98
47	QC	501	GTP	C8-N7-C5	3.20	109.09	102.99
47	QE	501	GTP	C8-N7-C5	3.20	109.09	102.99
47	VM	501	GTP	C5-C6-N1	3.20	119.61	113.95
49	JF	501	GDP	C3'-C2'-C1'	3.20	105.80	100.98
49	AL	501	GDP	C3'-C2'-C1'	3.20	105.80	100.98
47	SA	501	GTP	C5-C6-N1	3.20	119.60	113.95
47	FK	501	GTP	C5-C6-N1	3.20	119.60	113.95
47	EA	501	GTP	C5-C6-N1	3.20	119.60	113.95
47	JA	501	GTP	C5-C6-N1	3.20	119.60	113.95
49	HH	501	GDP	C3'-C2'-C1'	3.20	105.79	100.98
47	UA	501	GTP	C5-C6-N1	3.20	119.59	113.95
47	DC	501	GTP	PA-O3A-PB	-3.19	121.86	132.83
47	RK	501	GTP	C8-N7-C5	3.19	109.08	102.99
47	TK	501	GTP	PA-O3A-PB	-3.19	121.86	132.83
49	LD	501	GDP	C3'-C2'-C1'	3.19	105.79	100.98
47	OF	501	GTP	PB-O3B-PG	-3.19	121.87	132.83
47	EC	501	GTP	PA-O3A-PB	-3.19	121.87	132.83
49	ED	501	GDP	C3'-C2'-C1'	3.19	105.78	100.98
49	IB	501	GDP	PA-O3A-PB	-3.19	121.89	132.83
49	NL	501	GDP	C3'-C2'-C1'	3.19	105.78	100.98
47	NC	501	GTP	PB-O3B-PG	-3.18	121.90	132.83
47	NA	501	GTP	C5-C6-N1	3.18	119.57	113.95
47	RE	501	GTP	C8-N7-C5	3.18	109.05	102.99
47	GM	501	GTP	C5-C6-N1	3.18	119.57	113.95
49	UL	501	GDP	C3'-C2'-C1'	3.18	105.77	100.98
47	TE	501	GTP	PA-O3A-PB	-3.18	121.92	132.83
49	QH	501	GDP	PA-O3A-PB	-3.18	121.92	132.83
49	ON	501	GDP	C3'-C2'-C1'	3.18	105.76	100.98
49	CN	501	GDP	C3'-C2'-C1'	3.18	105.76	100.98
47	TG	501	GTP	PA-O3A-PB	-3.17	121.94	132.83
47	QM	501	GTP	C8-N7-C5	3.17	109.04	102.99
49	PF	501	GDP	C3'-C2'-C1'	3.17	105.76	100.98
49	QL	501	GDP	C3'-C2'-C1'	3.17	105.75	100.98
49	MH	501	GDP	C3'-C2'-C1'	3.17	105.75	100.98
47	EI	501	GTP	PA-O3A-PB	-3.17	121.95	132.83
47	WA	501	GTP	PA-O3A-PB	-3.17	121.96	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	OI	501	GTP	PB-O3B-PG	-3.17	121.96	132.83
47	PA	501	GTP	C5-C6-N1	3.17	119.54	113.95
47	SM	501	GTP	PA-O3A-PB	-3.16	121.97	132.83
47	FA	501	GTP	C8-N7-C5	3.16	109.01	102.99
47	DE	501	GTP	PA-O3A-PB	-3.16	121.97	132.83
49	BL	501	GDP	C3'-C2'-C1'	3.16	105.73	100.98
49	EJ	501	GDP	C3'-C2'-C1'	3.16	105.73	100.98
47	SC	501	GTP	C5-C6-N1	3.16	119.53	113.95
47	DA	501	GTP	C5-C6-N1	3.15	119.52	113.95
49	MN	501	GDP	C3'-C2'-C1'	3.15	105.73	100.98
47	RK	501	GTP	PA-O3A-PB	-3.15	122.00	132.83
47	LE	501	GTP	PA-O3A-PB	-3.15	122.01	132.83
47	EM	501	GTP	C5-C6-N1	3.15	119.52	113.95
49	RF	501	GDP	C3'-C2'-C1'	3.15	105.72	100.98
47	FC	501	GTP	C8-N7-C5	3.15	108.99	102.99
49	EF	501	GDP	C3'-C2'-C1'	3.15	105.72	100.98
49	VL	501	GDP	C3'-C2'-C1'	3.15	105.72	100.98
49	RD	501	GDP	C3'-C2'-C1'	3.15	105.72	100.98
47	VM	501	GTP	PA-O3A-PB	-3.15	122.03	132.83
49	ND	502	GDP	C3'-C2'-C1'	3.14	105.71	100.98
47	RC	501	GTP	C8-N7-C5	3.14	108.97	102.99
47	VE	501	GTP	C2-N1-C6	-3.13	119.33	125.10
47	HC	501	GTP	C8-N7-C5	3.13	108.95	102.99
49	KB	501	GDP	C3'-C2'-C1'	3.13	105.69	100.98
47	PK	501	GTP	C2-N1-C6	-3.12	119.34	125.10
47	AA	501	GTP	PA-O3A-PB	-3.12	122.11	132.83
47	UI	501	GTP	PA-O3A-PB	-3.12	122.11	132.83
49	DJ	501	GDP	C3'-C2'-C1'	3.12	105.68	100.98
49	QJ	501	GDP	C3'-C2'-C1'	3.12	105.68	100.98
47	OF	501	GTP	C8-N7-C5	3.12	108.93	102.99
47	OC	501	GTP	C8-N7-C5	3.12	108.93	102.99
47	HE	501	GTP	C2-N1-C6	-3.11	119.36	125.10
49	IF	501	GDP	C3'-C2'-C1'	3.11	105.67	100.98
47	VC	501	GTP	C8-N7-C5	3.11	108.92	102.99
47	PE	501	GTP	C8-N7-C5	3.11	108.92	102.99
47	VG	501	GTP	C8-N7-C5	3.11	108.91	102.99
47	FM	501	GTP	PA-O3A-PB	-3.11	122.16	132.83
47	CG	501	GTP	C8-N7-C5	3.10	108.90	102.99
47	QG	501	GTP	C2-N1-C6	-3.10	119.39	125.10
47	WE	501	GTP	C8-N7-C5	3.10	108.90	102.99
47	FA	501	GTP	PA-O3A-PB	-3.10	122.19	132.83
49	BH	501	GDP	C3'-C2'-C1'	3.10	105.64	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	SK	501	GTP	PA-O3A-PB	-3.10	122.20	132.83
47	WA	501	GTP	C8-N7-C5	3.10	108.89	102.99
49	FF	501	GDP	C3'-C2'-C1'	3.10	105.64	100.98
47	HI	501	GTP	C2-N1-C6	-3.09	119.40	125.10
47	HG	501	GTP	C8-N7-C5	3.09	108.88	102.99
49	BD	501	GDP	C3'-C2'-C1'	3.09	105.63	100.98
49	CH	501	GDP	C3'-C2'-C1'	3.09	105.63	100.98
49	ML	501	GDP	C3'-C2'-C1'	3.09	105.63	100.98
47	WI	501	GTP	C8-N7-C5	3.09	108.87	102.99
47	PI	501	GTP	C8-N7-C5	3.08	108.86	102.99
47	DI	501	GTP	C8-N7-C5	3.08	108.86	102.99
47	BG	501	GTP	C2-N1-C6	-3.08	119.43	125.10
47	AC	501	GTP	C2-N1-C6	-3.08	119.43	125.10
49	FJ	501	GDP	C3'-C2'-C1'	3.08	105.61	100.98
49	IJ	501	GDP	C3'-C2'-C1'	3.08	105.61	100.98
47	VG	501	GTP	C2-N1-C6	-3.08	119.43	125.10
47	VI	501	GTP	C8-N7-C5	3.08	108.85	102.99
47	IE	501	GTP	C3'-C2'-C1'	3.08	105.61	100.98
49	PN	502	GDP	C3'-C2'-C1'	3.08	105.61	100.98
47	OA	501	GTP	C8-N7-C5	3.08	108.85	102.99
47	EM	501	GTP	C8-N7-C5	3.07	108.84	102.99
49	GD	501	GDP	C3'-C2'-C1'	3.07	105.61	100.98
49	OD	501	GDP	C3'-C2'-C1'	3.07	105.60	100.98
47	GC	501	GTP	C8-N7-C5	3.07	108.84	102.99
47	IA	501	GTP	PA-O3A-PB	-3.07	122.28	132.83
47	BG	501	GTP	C8-N7-C5	3.07	108.84	102.99
47	PE	501	GTP	C2-N1-C6	-3.07	119.44	125.10
49	QF	501	GDP	C3'-C2'-C1'	3.07	105.60	100.98
47	UK	501	GTP	C8-N7-C5	3.07	108.84	102.99
47	CC	501	GTP	C8-N7-C5	3.07	108.84	102.99
47	UM	501	GTP	C8-N7-C5	3.07	108.84	102.99
47	AE	501	GTP	C8-N7-C5	3.07	108.84	102.99
47	EK	501	GTP	PA-O3A-PB	-3.06	122.31	132.83
47	WG	501	GTP	C8-N7-C5	3.06	108.83	102.99
47	BK	501	GTP	C8-N7-C5	3.06	108.83	102.99
47	AM	501	GTP	C8-N7-C5	3.06	108.82	102.99
49	NH	501	GDP	C3'-C2'-C1'	3.06	105.59	100.98
47	NC	501	GTP	C8-N7-C5	3.06	108.82	102.99
47	NG	501	GTP	C8-N7-C5	3.06	108.82	102.99
47	VA	501	GTP	C8-N7-C5	3.06	108.82	102.99
47	DA	501	GTP	PA-O3A-PB	-3.06	122.33	132.83
47	PM	501	GTP	C8-N7-C5	3.06	108.81	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	MM	501	GTP	PA-O3A-PB	-3.06	122.34	132.83
47	CE	501	GTP	C8-N7-C5	3.05	108.81	102.99
47	JI	501	GTP	C8-N7-C5	3.05	108.81	102.99
47	OG	501	GTP	C8-N7-C5	3.05	108.81	102.99
47	KE	501	GTP	C3'-C2'-C1'	3.05	105.58	100.98
47	TE	501	GTP	C3'-C2'-C1'	3.05	105.58	100.98
47	VK	501	GTP	C2-N1-C6	-3.05	119.48	125.10
47	VK	501	GTP	C8-N7-C5	3.05	108.80	102.99
47	WC	501	GTP	C2-N1-C6	-3.05	119.48	125.10
47	AG	501	GTP	C2-N1-C6	-3.05	119.48	125.10
47	IK	501	GTP	C2-N1-C6	-3.05	119.48	125.10
47	OI	501	GTP	C8-N7-C5	3.05	108.80	102.99
49	RJ	501	GDP	C3'-C2'-C1'	3.05	105.57	100.98
47	OG	501	GTP	PB-O3B-PG	-3.05	122.36	132.83
49	GJ	501	GDP	C3'-C2'-C1'	3.05	105.57	100.98
47	UA	501	GTP	C3'-C2'-C1'	3.05	105.56	100.98
47	CC	501	GTP	PA-O3A-PB	-3.05	122.37	132.83
47	UI	501	GTP	C2-N1-C6	-3.05	119.49	125.10
47	ME	501	GTP	C2-N1-C6	-3.04	119.49	125.10
47	DC	501	GTP	C8-N7-C5	3.04	108.79	102.99
47	BM	501	GTP	C8-N7-C5	3.04	108.79	102.99
47	HI	501	GTP	C8-N7-C5	3.04	108.79	102.99
47	HM	501	GTP	PA-O3A-PB	-3.04	122.38	132.83
47	PG	501	GTP	C8-N7-C5	3.04	108.78	102.99
47	DE	501	GTP	C8-N7-C5	3.04	108.78	102.99
47	WE	501	GTP	C2-N1-C6	-3.04	119.50	125.10
47	CK	501	GTP	C8-N7-C5	3.04	108.78	102.99
49	UD	501	GDP	C3'-C2'-C1'	3.04	105.56	100.98
47	BC	502	GTP	C2-N1-C6	-3.04	119.50	125.10
47	HG	501	GTP	C2-N1-C6	-3.04	119.50	125.10
47	HK	501	GTP	C8-N7-C5	3.04	108.78	102.99
47	IE	501	GTP	C8-N7-C5	3.04	108.78	102.99
47	HA	501	GTP	C8-N7-C5	3.04	108.78	102.99
47	GI	501	GTP	C8-N7-C5	3.04	108.78	102.99
47	AI	501	GTP	C2-N1-C6	-3.04	119.50	125.10
47	DE	501	GTP	C2-N1-C6	-3.04	119.50	125.10
49	SH	501	GDP	C3'-C2'-C1'	3.04	105.55	100.98
47	AI	501	GTP	C8-N7-C5	3.04	108.78	102.99
47	BA	501	GTP	C8-N7-C5	3.04	108.78	102.99
47	MA	501	GTP	C8-N7-C5	3.04	108.78	102.99
47	WK	501	GTP	C8-N7-C5	3.04	108.77	102.99
47	WI	501	GTP	C2-N1-C6	-3.04	119.51	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	BK	501	GTP	C3'-C2'-C1'	3.04	105.55	100.98
47	UC	501	GTP	C8-N7-C5	3.04	108.77	102.99
47	MK	501	GTP	C8-N7-C5	3.03	108.77	102.99
49	QH	501	GDP	C3'-C2'-C1'	3.03	105.55	100.98
49	QF	501	GDP	PA-O3A-PB	-3.03	122.42	132.83
47	JE	501	GTP	C8-N7-C5	3.03	108.77	102.99
47	LE	501	GTP	C2-N1-C6	-3.03	119.51	125.10
47	QK	501	GTP	C2-N1-C6	-3.03	119.52	125.10
47	WC	501	GTP	C8-N7-C5	3.03	108.77	102.99
47	SA	501	GTP	C3'-C2'-C1'	3.03	105.54	100.98
47	AK	501	GTP	C2-N1-C6	-3.03	119.52	125.10
47	UM	501	GTP	C3'-C2'-C1'	3.03	105.54	100.98
47	TK	501	GTP	C8-N7-C5	3.03	108.76	102.99
47	VM	501	GTP	C3'-C2'-C1'	3.03	105.54	100.98
47	GG	501	GTP	C2-N1-C6	-3.03	119.52	125.10
47	QA	501	GTP	C3'-C2'-C1'	3.03	105.54	100.98
47	JM	501	GTP	C8-N7-C5	3.03	108.76	102.99
47	TA	501	GTP	C3'-C2'-C1'	3.03	105.53	100.98
47	MI	501	GTP	C8-N7-C5	3.03	108.75	102.99
47	GK	501	GTP	C2-N1-C6	-3.03	119.53	125.10
47	GM	501	GTP	C3'-C2'-C1'	3.03	105.53	100.98
47	OM	501	GTP	C8-N7-C5	3.03	108.75	102.99
47	OM	501	GTP	PB-O3B-PG	-3.02	122.45	132.83
47	HE	501	GTP	C8-N7-C5	3.02	108.75	102.99
47	IM	501	GTP	C8-N7-C5	3.02	108.75	102.99
47	VC	501	GTP	C2-N1-C6	-3.02	119.53	125.10
47	EC	501	GTP	C3'-C2'-C1'	3.02	105.53	100.98
49	QD	501	GDP	C3'-C2'-C1'	3.02	105.53	100.98
47	CI	501	GTP	C8-N7-C5	3.02	108.75	102.99
47	IC	501	GTP	C8-N7-C5	3.02	108.75	102.99
47	TE	501	GTP	C8-N7-C5	3.02	108.75	102.99
47	MK	501	GTP	C2-N1-C6	-3.02	119.54	125.10
47	HA	501	GTP	C2-N1-C6	-3.02	119.54	125.10
47	PD	501	GTP	C8-N7-C5	3.02	108.74	102.99
47	FA	501	GTP	C2-N1-C6	-3.02	119.54	125.10
47	KE	501	GTP	C8-N7-C5	3.02	108.74	102.99
47	RC	501	GTP	C2-N1-C6	-3.02	119.54	125.10
47	IA	501	GTP	C8-N7-C5	3.02	108.74	102.99
47	LK	501	GTP	PA-O3A-PB	-3.02	122.48	132.83
47	LC	501	GTP	C2-N1-C6	-3.02	119.54	125.10
47	FE	501	GTP	C8-N7-C5	3.02	108.73	102.99
47	IE	501	GTP	C2-N1-C6	-3.02	119.55	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	GH	501	GDP	C3'-C2'-C1'	3.01	105.52	100.98
47	HK	501	GTP	C2-N1-C6	-3.01	119.55	125.10
47	MI	501	GTP	C2-N1-C6	-3.01	119.55	125.10
47	GE	501	GTP	C2-N1-C6	-3.01	119.55	125.10
47	JG	501	GTP	C2-N1-C6	-3.01	119.55	125.10
47	AA	501	GTP	C2-N1-C6	-3.01	119.55	125.10
47	MG	501	GTP	C8-N7-C5	3.01	108.73	102.99
47	UE	501	GTP	C2-N1-C6	-3.01	119.55	125.10
47	KM	501	GTP	C8-N7-C5	3.01	108.72	102.99
47	GC	501	GTP	C2-N1-C6	-3.01	119.56	125.10
47	UE	501	GTP	C8-N7-C5	3.01	108.72	102.99
47	DM	501	GTP	C8-N7-C5	3.01	108.72	102.99
47	RI	501	GTP	C8-N7-C5	3.01	108.72	102.99
47	BC	502	GTP	C8-N7-C5	3.01	108.72	102.99
47	TC	501	GTP	C2-N1-C6	-3.01	119.56	125.10
47	IK	501	GTP	C8-N7-C5	3.01	108.72	102.99
47	EA	501	GTP	C3'-C2'-C1'	3.01	105.50	100.98
47	RK	501	GTP	C2-N1-C6	-3.01	119.56	125.10
47	AE	501	GTP	C2-N1-C6	-3.01	119.56	125.10
47	CA	501	GTP	C3'-C2'-C1'	3.01	105.50	100.98
47	OC	501	GTP	C2-N1-C6	-3.01	119.56	125.10
47	MM	501	GTP	C8-N7-C5	3.01	108.72	102.99
47	CK	501	GTP	C2-N1-C6	-3.00	119.57	125.10
47	CE	501	GTP	C2-N1-C6	-3.00	119.57	125.10
47	WM	501	GTP	C8-N7-C5	3.00	108.71	102.99
49	FL	502	GDP	C3'-C2'-C1'	3.00	105.50	100.98
47	AG	501	GTP	C8-N7-C5	3.00	108.71	102.99
47	RE	501	GTP	C2-N1-C6	-3.00	119.57	125.10
47	DE	501	GTP	C3'-C2'-C1'	3.00	105.50	100.98
47	RA	501	GTP	C3'-C2'-C1'	3.00	105.50	100.98
47	PA	501	GTP	C8-N7-C5	3.00	108.71	102.99
47	LA	501	GTP	C2-N1-C6	-3.00	119.57	125.10
47	RI	501	GTP	C2-N1-C6	-3.00	119.57	125.10
47	PM	501	GTP	C2-N1-C6	-3.00	119.57	125.10
47	FI	501	GTP	C8-N7-C5	3.00	108.71	102.99
47	TC	501	GTP	C8-N7-C5	3.00	108.71	102.99
47	DI	501	GTP	C2-N1-C6	-3.00	119.57	125.10
49	LH	501	GDP	C3'-C2'-C1'	3.00	105.50	100.98
47	FG	501	GTP	C8-N7-C5	3.00	108.71	102.99
47	JA	501	GTP	C8-N7-C5	3.00	108.71	102.99
47	BA	501	GTP	C2-N1-C6	-3.00	119.57	125.10
47	JK	501	GTP	C2-N1-C6	-3.00	119.57	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	BI	501	GTP	C8-N7-C5	3.00	108.70	102.99
47	SK	501	GTP	C8-N7-C5	3.00	108.70	102.99
47	EK	501	GTP	C8-N7-C5	3.00	108.70	102.99
47	LK	501	GTP	C2-N1-C6	-3.00	119.58	125.10
47	DK	501	GTP	C3'-C2'-C1'	3.00	105.49	100.98
47	UM	501	GTP	C2-N1-C6	-3.00	119.58	125.10
47	GG	501	GTP	C8-N7-C5	3.00	108.70	102.99
47	DG	501	GTP	C2-N1-C6	-3.00	119.58	125.10
47	IC	501	GTP	C2-N1-C6	-3.00	119.58	125.10
47	IM	501	GTP	C2-N1-C6	-3.00	119.58	125.10
47	II	501	GTP	C8-N7-C5	3.00	108.70	102.99
49	WD	501	GDP	C3'-C2'-C1'	3.00	105.49	100.98
47	DI	501	GTP	PA-O3A-PB	-3.00	122.55	132.83
47	AA	501	GTP	C8-N7-C5	3.00	108.70	102.99
47	MC	501	GTP	C8-N7-C5	3.00	108.70	102.99
47	NA	501	GTP	C8-N7-C5	2.99	108.69	102.99
47	UI	501	GTP	C8-N7-C5	2.99	108.69	102.99
47	LG	501	GTP	C2-N1-C6	-2.99	119.59	125.10
47	JA	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
47	EE	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
47	AI	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
47	KA	501	GTP	C2-N1-C6	-2.99	119.59	125.10
47	AG	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
49	GF	501	GDP	C3'-C2'-C1'	2.99	105.48	100.98
47	WG	501	GTP	C2-N1-C6	-2.99	119.59	125.10
47	DK	501	GTP	C8-N7-C5	2.99	108.69	102.99
47	KI	501	GTP	C8-N7-C5	2.99	108.69	102.99
47	CM	501	GTP	C8-N7-C5	2.99	108.69	102.99
47	CM	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
47	BK	501	GTP	C2-N1-C6	-2.99	119.60	125.10
47	PI	501	GTP	C2-N1-C6	-2.99	119.60	125.10
49	KL	501	GDP	C3'-C2'-C1'	2.99	105.48	100.98
47	ME	501	GTP	C8-N7-C5	2.99	108.68	102.99
47	JE	501	GTP	C2-N1-C6	-2.99	119.60	125.10
47	QC	501	GTP	C2-N1-C6	-2.99	119.60	125.10
47	QI	501	GTP	C2-N1-C6	-2.99	119.60	125.10
47	PA	501	GTP	C3'-C2'-C1'	2.99	105.47	100.98
47	GI	501	GTP	C2-N1-C6	-2.99	119.60	125.10
47	BG	501	GTP	C3'-C2'-C1'	2.99	105.47	100.98
47	AM	501	GTP	C2-N1-C6	-2.98	119.60	125.10
47	IA	501	GTP	C2-N1-C6	-2.98	119.60	125.10
47	VA	501	GTP	C2-N1-C6	-2.98	119.60	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	EE	501	GTP	C8-N7-C5	2.98	108.67	102.99
47	GE	501	GTP	C8-N7-C5	2.98	108.67	102.99
47	VI	501	GTP	C2-N1-C6	-2.98	119.60	125.10
47	HM	501	GTP	C8-N7-C5	2.98	108.67	102.99
47	JG	501	GTP	C8-N7-C5	2.98	108.67	102.99
47	SC	501	GTP	PA-O3A-PB	-2.98	122.59	132.83
47	PK	501	GTP	C8-N7-C5	2.98	108.67	102.99
47	TM	501	GTP	C8-N7-C5	2.98	108.67	102.99
47	DA	501	GTP	C3'-C2'-C1'	2.98	105.47	100.98
47	JK	501	GTP	C8-N7-C5	2.98	108.67	102.99
47	LC	501	GTP	C8-N7-C5	2.98	108.67	102.99
47	HC	501	GTP	C2-N1-C6	-2.98	119.61	125.10
47	EI	501	GTP	C8-N7-C5	2.98	108.67	102.99
47	QE	501	GTP	C2-N1-C6	-2.98	119.61	125.10
47	IG	501	GTP	PA-O3A-PB	-2.98	122.59	132.83
47	JC	501	GTP	C8-N7-C5	2.98	108.67	102.99
47	LG	501	GTP	PA-O3A-PB	-2.98	122.60	132.83
47	UG	501	GTP	C8-N7-C5	2.98	108.66	102.99
47	SM	501	GTP	C3'-C2'-C1'	2.98	105.46	100.98
47	AC	501	GTP	C8-N7-C5	2.98	108.66	102.99
47	EC	501	GTP	C8-N7-C5	2.98	108.66	102.99
47	KE	501	GTP	C2-N1-C6	-2.98	119.61	125.10
47	KI	501	GTP	C2-N1-C6	-2.98	119.61	125.10
47	FK	501	GTP	C3'-C2'-C1'	2.98	105.46	100.98
49	LL	501	GDP	C3'-C2'-C1'	2.98	105.46	100.98
47	KC	501	GTP	C8-N7-C5	2.98	108.66	102.99
47	BM	501	GTP	C2-N1-C6	-2.98	119.62	125.10
47	NK	501	GTP	C2-N1-C6	-2.98	119.62	125.10
47	IG	501	GTP	C2-N1-C6	-2.98	119.62	125.10
47	LI	501	GTP	C2-N1-C6	-2.98	119.62	125.10
47	NG	501	GTP	C2-N1-C6	-2.98	119.62	125.10
47	PD	501	GTP	C2-N1-C6	-2.97	119.62	125.10
47	PG	501	GTP	C2-N1-C6	-2.97	119.62	125.10
47	KK	501	GTP	C8-N7-C5	2.97	108.66	102.99
47	SE	501	GTP	C8-N7-C5	2.97	108.66	102.99
49	PD	502	GDP	PA-O3A-PB	-2.97	122.62	132.83
47	RM	501	GTP	C8-N7-C5	2.97	108.65	102.99
47	UK	501	GTP	C2-N1-C6	-2.97	119.62	125.10
47	VM	501	GTP	C8-N7-C5	2.97	108.65	102.99
47	UG	501	GTP	C2-N1-C6	-2.97	119.63	125.10
47	FM	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
47	WA	501	GTP	C2-N1-C6	-2.97	119.63	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	GK	501	GTP	C8-N7-C5	2.97	108.65	102.99
47	BE	501	GTP	C2-N1-C6	-2.97	119.63	125.10
47	TM	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
49	PJ	501	GDP	C3'-C2'-C1'	2.97	105.45	100.98
47	NI	501	GTP	C2-N1-C6	-2.97	119.63	125.10
47	CI	501	GTP	C2-N1-C6	-2.97	119.63	125.10
47	DK	501	GTP	C2-N1-C6	-2.97	119.63	125.10
47	MC	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
47	UG	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
47	TA	501	GTP	C8-N7-C5	2.97	108.64	102.99
47	MA	501	GTP	C2-N1-C6	-2.97	119.63	125.10
49	DH	501	GDP	C3'-C2'-C1'	2.97	105.44	100.98
47	MM	501	GTP	C2-N1-C6	-2.97	119.64	125.10
47	JC	501	GTP	C2-N1-C6	-2.97	119.64	125.10
47	WM	501	GTP	C2-N1-C6	-2.97	119.64	125.10
47	CC	501	GTP	C2-N1-C6	-2.97	119.64	125.10
47	OF	501	GTP	C2-N1-C6	-2.97	119.64	125.10
47	FI	501	GTP	C2-N1-C6	-2.96	119.64	125.10
47	MG	501	GTP	C2-N1-C6	-2.96	119.64	125.10
47	RG	501	GTP	C2-N1-C6	-2.96	119.64	125.10
47	AK	501	GTP	PA-O3A-PB	-2.96	122.66	132.83
47	PA	501	GTP	PA-O3A-PB	-2.96	122.67	132.83
47	FE	501	GTP	C2-N1-C6	-2.96	119.65	125.10
47	JA	501	GTP	C2-N1-C6	-2.96	119.65	125.10
47	FK	501	GTP	C8-N7-C5	2.96	108.63	102.99
47	QM	501	GTP	C2-N1-C6	-2.96	119.65	125.10
49	DF	501	GDP	C3'-C2'-C1'	2.96	105.43	100.98
47	RA	501	GTP	C8-N7-C5	2.96	108.63	102.99
47	MC	501	GTP	C2-N1-C6	-2.96	119.65	125.10
47	JM	501	GTP	C3'-C2'-C1'	2.96	105.43	100.98
47	UC	501	GTP	C2-N1-C6	-2.96	119.65	125.10
47	OK	501	GTP	C8-N7-C5	2.96	108.62	102.99
47	KC	501	GTP	C2-N1-C6	-2.96	119.66	125.10
47	HA	501	GTP	C3'-C2'-C1'	2.95	105.43	100.98
49	HL	501	GDP	C3'-C2'-C1'	2.95	105.43	100.98
47	KG	501	GTP	C8-N7-C5	2.95	108.62	102.99
47	WK	501	GTP	C2-N1-C6	-2.95	119.66	125.10
47	GA	501	GTP	C8-N7-C5	2.95	108.62	102.99
47	IG	501	GTP	C8-N7-C5	2.95	108.62	102.99
47	CI	501	GTP	C3'-C2'-C1'	2.95	105.42	100.98
49	CJ	501	GDP	C3'-C2'-C1'	2.95	105.42	100.98
47	SG	501	GTP	C8-N7-C5	2.95	108.61	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	KM	501	GTP	C2-N1-C6	-2.95	119.66	125.10
47	CG	501	GTP	C2-N1-C6	-2.95	119.66	125.10
47	CM	501	GTP	C2-N1-C6	-2.95	119.66	125.10
47	FM	501	GTP	C8-N7-C5	2.95	108.61	102.99
47	EG	501	GTP	C8-N7-C5	2.95	108.61	102.99
47	BI	501	GTP	C2-N1-C6	-2.95	119.67	125.10
47	OM	501	GTP	C2-N1-C6	-2.95	119.67	125.10
47	IK	501	GTP	C3'-C2'-C1'	2.95	105.42	100.98
49	VD	501	GDP	C3'-C2'-C1'	2.95	105.42	100.98
49	DF	501	GDP	PA-O3A-PB	-2.95	122.71	132.83
47	DC	501	GTP	C2-N1-C6	-2.95	119.67	125.10
47	GA	501	GTP	C3'-C2'-C1'	2.95	105.42	100.98
47	LM	501	GTP	C8-N7-C5	2.95	108.60	102.99
49	RB	501	GDP	C3'-C2'-C1'	2.95	105.42	100.98
47	GM	501	GTP	C8-N7-C5	2.95	108.60	102.99
47	NK	501	GTP	C8-N7-C5	2.95	108.60	102.99
47	KA	501	GTP	C8-N7-C5	2.94	108.60	102.99
47	TI	501	GTP	C8-N7-C5	2.94	108.60	102.99
47	WC	501	GTP	C3'-C2'-C1'	2.94	105.41	100.98
47	SI	501	GTP	C8-N7-C5	2.94	108.59	102.99
47	CK	501	GTP	C3'-C2'-C1'	2.94	105.41	100.98
47	IA	501	GTP	C3'-C2'-C1'	2.94	105.41	100.98
47	KK	501	GTP	C2-N1-C6	-2.94	119.68	125.10
47	OG	501	GTP	C2-N1-C6	-2.94	119.69	125.10
47	CA	501	GTP	C8-N7-C5	2.94	108.59	102.99
47	UA	501	GTP	C8-N7-C5	2.94	108.59	102.99
47	QM	501	GTP	C3'-C2'-C1'	2.94	105.40	100.98
47	LM	501	GTP	C2-N1-C6	-2.94	119.69	125.10
47	OK	501	GTP	C2-N1-C6	-2.94	119.69	125.10
47	LE	501	GTP	C8-N7-C5	2.94	108.58	102.99
47	BI	501	GTP	C3'-C2'-C1'	2.94	105.40	100.98
47	AE	501	GTP	C3'-C2'-C1'	2.94	105.40	100.98
47	FG	501	GTP	C2-N1-C6	-2.94	119.69	125.10
47	AM	501	GTP	C3'-C2'-C1'	2.94	105.40	100.98
47	IG	501	GTP	C3'-C2'-C1'	2.94	105.40	100.98
47	FG	501	GTP	C3'-C2'-C1'	2.93	105.39	100.98
47	JE	501	GTP	C3'-C2'-C1'	2.93	105.39	100.98
47	LA	501	GTP	C8-N7-C5	2.93	108.58	102.99
47	SC	501	GTP	C8-N7-C5	2.93	108.58	102.99
47	II	501	GTP	C2-N1-C6	-2.93	119.70	125.10
47	LG	501	GTP	C8-N7-C5	2.93	108.58	102.99
47	QG	501	GTP	PB-O3B-PG	-2.93	122.77	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	NM	501	GTP	C8-N7-C5	2.93	108.57	102.99
47	GA	501	GTP	C2-N1-C6	-2.93	119.70	125.10
47	BC	502	GTP	C3'-C2'-C1'	2.93	105.39	100.98
47	VE	501	GTP	C8-N7-C5	2.93	108.57	102.99
47	JI	501	GTP	C2-N1-C6	-2.93	119.71	125.10
47	DA	501	GTP	C8-N7-C5	2.93	108.57	102.99
47	PG	501	GTP	C3'-C2'-C1'	2.93	105.38	100.98
47	AK	501	GTP	C8-N7-C5	2.93	108.56	102.99
47	KG	501	GTP	C2-N1-C6	-2.92	119.71	125.10
49	AJ	501	GDP	C3'-C2'-C1'	2.92	105.38	100.98
47	EA	501	GTP	C8-N7-C5	2.92	108.56	102.99
47	HM	501	GTP	C3'-C2'-C1'	2.92	105.38	100.98
49	SJ	501	GDP	C3'-C2'-C1'	2.92	105.38	100.98
47	EI	501	GTP	C3'-C2'-C1'	2.92	105.38	100.98
47	UE	501	GTP	C3'-C2'-C1'	2.92	105.38	100.98
47	CA	501	GTP	C2-N1-C6	-2.92	119.72	125.10
49	IL	501	GDP	C3'-C2'-C1'	2.92	105.37	100.98
49	LJ	501	GDP	C3'-C2'-C1'	2.92	105.37	100.98
47	JM	501	GTP	C2-N1-C6	-2.92	119.72	125.10
47	NA	501	GTP	PA-O3A-PB	-2.92	122.81	132.83
47	AC	501	GTP	C3'-C2'-C1'	2.92	105.37	100.98
47	OA	501	GTP	C2-N1-C6	-2.92	119.73	125.10
49	CH	501	GDP	PA-O3A-PB	-2.92	122.82	132.83
47	UC	501	GTP	C3'-C2'-C1'	2.92	105.37	100.98
47	EI	501	GTP	C2-N1-C6	-2.91	119.73	125.10
47	MG	501	GTP	C3'-C2'-C1'	2.91	105.37	100.98
47	EK	501	GTP	C2-N1-C6	-2.91	119.73	125.10
47	SA	501	GTP	C8-N7-C5	2.91	108.54	102.99
47	WM	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
47	JG	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
47	DC	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
47	BE	501	GTP	C8-N7-C5	2.91	108.53	102.99
47	RA	501	GTP	C2-N1-C6	-2.91	119.74	125.10
47	FC	501	GTP	C2-N1-C6	-2.91	119.74	125.10
47	QA	501	GTP	C8-N7-C5	2.91	108.53	102.99
47	NI	501	GTP	C8-N7-C5	2.91	108.53	102.99
49	JJ	501	GDP	C3'-C2'-C1'	2.91	105.35	100.98
47	NE	501	GTP	C2-N1-C6	-2.90	119.75	125.10
47	BM	501	GTP	C3'-C2'-C1'	2.90	105.35	100.98
47	NM	501	GTP	C2-N1-C6	-2.90	119.75	125.10
47	BA	501	GTP	C3'-C2'-C1'	2.90	105.35	100.98
47	VG	501	GTP	C3'-C2'-C1'	2.90	105.35	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	OI	501	GTP	C2-N1-C6	-2.90	119.76	125.10
47	PK	501	GTP	C3'-C2'-C1'	2.90	105.34	100.98
47	FK	501	GTP	C2-N1-C6	-2.90	119.76	125.10
47	DG	501	GTP	C8-N7-C5	2.90	108.51	102.99
47	DM	501	GTP	C2-N1-C6	-2.90	119.76	125.10
49	RH	501	GDP	C3'-C2'-C1'	2.90	105.34	100.98
47	KC	501	GTP	C3'-C2'-C1'	2.90	105.34	100.98
47	PA	501	GTP	C2-N1-C6	-2.90	119.76	125.10
47	NC	501	GTP	C2-N1-C6	-2.90	119.76	125.10
47	SI	501	GTP	C2-N1-C6	-2.90	119.76	125.10
47	TG	501	GTP	C8-N7-C5	2.90	108.51	102.99
47	CG	501	GTP	PA-O3A-PB	-2.90	122.89	132.83
47	TK	501	GTP	C2-N1-C6	-2.89	119.77	125.10
47	DG	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
47	KI	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
47	EA	501	GTP	C2-N1-C6	-2.89	119.77	125.10
47	TI	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
47	LA	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
47	WG	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
47	QA	501	GTP	C2-N1-C6	-2.89	119.78	125.10
47	KG	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
47	NA	501	GTP	C2-N1-C6	-2.89	119.78	125.10
47	NA	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
49	IH	501	GDP	C3'-C2'-C1'	2.89	105.33	100.98
47	QI	501	GTP	C8-N7-C5	2.89	108.49	102.99
47	UK	501	GTP	C3'-C2'-C1'	2.89	105.32	100.98
47	TA	501	GTP	C2-N1-C6	-2.88	119.79	125.10
47	QG	501	GTP	C8-N7-C5	2.88	108.48	102.99
47	SM	501	GTP	C2-N1-C6	-2.88	119.79	125.10
47	RK	501	GTP	C3'-C2'-C1'	2.88	105.32	100.98
47	SA	501	GTP	C2-N1-C6	-2.88	119.79	125.10
47	QC	501	GTP	C3'-C2'-C1'	2.88	105.32	100.98
47	EG	501	GTP	C2-N1-C6	-2.88	119.79	125.10
47	TG	501	GTP	C2-N1-C6	-2.88	119.79	125.10
49	MF	501	GDP	C3'-C2'-C1'	2.88	105.32	100.98
47	NI	501	GTP	PA-O3A-PB	-2.88	122.94	132.83
47	TM	501	GTP	C2-N1-C6	-2.88	119.80	125.10
47	HM	501	GTP	C2-N1-C6	-2.88	119.80	125.10
47	TE	501	GTP	C2-N1-C6	-2.88	119.80	125.10
47	FE	501	GTP	C3'-C2'-C1'	2.88	105.31	100.98
47	HG	501	GTP	PA-O3A-PB	-2.88	122.95	132.83
47	CC	501	GTP	C3'-C2'-C1'	2.88	105.31	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	FM	501	GTP	C2-N1-C6	-2.88	119.80	125.10
47	SE	501	GTP	C2-N1-C6	-2.88	119.80	125.10
47	TI	501	GTP	C2-N1-C6	-2.88	119.80	125.10
49	CF	501	GDP	C3'-C2'-C1'	2.88	105.31	100.98
47	SG	501	GTP	C2-N1-C6	-2.87	119.81	125.10
47	LK	501	GTP	C8-N7-C5	2.87	108.46	102.99
47	VM	501	GTP	C2-N1-C6	-2.87	119.81	125.10
47	SM	501	GTP	C8-N7-C5	2.87	108.46	102.99
47	LI	501	GTP	C8-N7-C5	2.87	108.46	102.99
47	EG	501	GTP	C3'-C2'-C1'	2.87	105.30	100.98
47	GI	501	GTP	C3'-C2'-C1'	2.87	105.30	100.98
47	UA	501	GTP	C2-N1-C6	-2.87	119.81	125.10
47	JI	501	GTP	C3'-C2'-C1'	2.87	105.30	100.98
47	EM	501	GTP	PA-O3A-PB	-2.87	122.98	132.83
47	SG	501	GTP	C3'-C2'-C1'	2.87	105.30	100.98
47	EC	501	GTP	C2-N1-C6	-2.87	119.82	125.10
47	IC	501	GTP	C3'-C2'-C1'	2.87	105.29	100.98
47	NK	501	GTP	C3'-C2'-C1'	2.87	105.29	100.98
47	II	501	GTP	C3'-C2'-C1'	2.87	105.29	100.98
47	HG	501	GTP	C3'-C2'-C1'	2.86	105.29	100.98
47	QI	501	GTP	C3'-C2'-C1'	2.86	105.29	100.98
47	TK	501	GTP	C3'-C2'-C1'	2.86	105.29	100.98
47	DA	501	GTP	C2-N1-C6	-2.86	119.83	125.10
47	EE	501	GTP	C2-N1-C6	-2.86	119.83	125.10
47	PD	501	GTP	C3'-C2'-C1'	2.86	105.29	100.98
47	VK	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
49	PH	501	GDP	C3'-C2'-C1'	2.86	105.28	100.98
47	GC	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
47	WE	501	GTP	C3'-C2'-C1'	2.85	105.28	100.98
47	PM	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
47	SI	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
47	NE	501	GTP	C8-N7-C5	2.85	108.42	102.99
47	ME	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
47	EM	501	GTP	C2-N1-C6	-2.85	119.85	125.10
47	GE	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
47	QK	501	GTP	C8-N7-C5	2.85	108.41	102.99
47	MI	501	GTP	C3'-C2'-C1'	2.85	105.26	100.98
47	SK	501	GTP	C2-N1-C6	-2.85	119.86	125.10
47	RC	501	GTP	C3'-C2'-C1'	2.84	105.26	100.98
47	IM	501	GTP	C3'-C2'-C1'	2.84	105.26	100.98
47	NM	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
49	BF	501	GDP	C3'-C2'-C1'	2.84	105.25	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	VA	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
49	FH	501	GDP	C3'-C2'-C1'	2.84	105.25	100.98
47	JK	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
47	LM	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
47	MK	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
47	CE	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
47	UI	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
47	QK	501	GTP	C3'-C2'-C1'	2.83	105.25	100.98
47	BE	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
47	LI	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
47	GM	501	GTP	C2-N1-C6	-2.83	119.88	125.10
47	KM	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
47	QE	501	GTP	PA-O3A-PB	-2.83	123.11	132.83
47	CG	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
47	DI	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
47	KA	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
47	SC	501	GTP	C2-N1-C6	-2.83	119.89	125.10
47	VE	501	GTP	C3'-C2'-C1'	2.83	105.23	100.98
49	KD	501	GDP	C3'-C2'-C1'	2.83	105.23	100.98
47	AK	501	GTP	C3'-C2'-C1'	2.82	105.23	100.98
47	DM	501	GTP	C3'-C2'-C1'	2.82	105.23	100.98
47	HC	501	GTP	C3'-C2'-C1'	2.82	105.23	100.98
47	HI	501	GTP	C3'-C2'-C1'	2.82	105.23	100.98
47	PE	501	GTP	C3'-C2'-C1'	2.82	105.23	100.98
47	WK	501	GTP	C3'-C2'-C1'	2.82	105.22	100.98
47	EK	501	GTP	C3'-C2'-C1'	2.82	105.22	100.98
47	MA	501	GTP	C3'-C2'-C1'	2.82	105.22	100.98
47	WA	501	GTP	C3'-C2'-C1'	2.81	105.21	100.98
49	KN	501	GDP	C3'-C2'-C1'	2.81	105.21	100.98
47	SC	501	GTP	C3'-C2'-C1'	2.81	105.21	100.98
47	GG	501	GTP	C3'-C2'-C1'	2.81	105.20	100.98
47	VI	501	GTP	C3'-C2'-C1'	2.80	105.20	100.98
47	WI	501	GTP	C3'-C2'-C1'	2.80	105.20	100.98
47	OA	501	GTP	C3'-C2'-C1'	2.80	105.20	100.98
47	FA	501	GTP	C3'-C2'-C1'	2.80	105.19	100.98
47	NG	501	GTP	C3'-C2'-C1'	2.80	105.19	100.98
47	GK	501	GTP	C3'-C2'-C1'	2.80	105.19	100.98
47	LC	501	GTP	PA-O3A-PB	-2.80	123.22	132.83
47	NC	501	GTP	C3'-C2'-C1'	2.79	105.19	100.98
47	OK	501	GTP	C3'-C2'-C1'	2.79	105.18	100.98
47	SE	501	GTP	C3'-C2'-C1'	2.79	105.17	100.98
47	QG	501	GTP	C3'-C2'-C1'	2.78	105.17	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	AA	501	GTP	C3'-C2'-C1'	2.78	105.16	100.98
47	NE	501	GTP	C3'-C2'-C1'	2.78	105.16	100.98
47	RM	501	GTP	PA-O3A-PB	-2.78	123.29	132.83
47	QE	501	GTP	C3'-C2'-C1'	2.78	105.16	100.98
47	LG	501	GTP	C3'-C2'-C1'	2.77	105.16	100.98
47	HK	501	GTP	C3'-C2'-C1'	2.77	105.15	100.98
47	TC	501	GTP	C3'-C2'-C1'	2.77	105.15	100.98
47	LK	501	GTP	C3'-C2'-C1'	2.77	105.14	100.98
47	JC	501	GTP	C3'-C2'-C1'	2.76	105.14	100.98
47	SK	501	GTP	C3'-C2'-C1'	2.76	105.13	100.98
47	IM	501	GTP	PA-O3A-PB	-2.76	123.36	132.83
47	HE	501	GTP	C3'-C2'-C1'	2.76	105.13	100.98
47	FC	501	GTP	C3'-C2'-C1'	2.75	105.12	100.98
47	LE	501	GTP	C3'-C2'-C1'	2.75	105.12	100.98
47	RM	501	GTP	C3'-C2'-C1'	2.75	105.12	100.98
47	VC	501	GTP	C3'-C2'-C1'	2.74	105.11	100.98
47	KK	501	GTP	C3'-C2'-C1'	2.74	105.11	100.98
47	OM	501	GTP	C3'-C2'-C1'	2.74	105.11	100.98
47	NI	501	GTP	C3'-C2'-C1'	2.74	105.10	100.98
49	LF	501	GDP	C3'-C2'-C1'	2.74	105.10	100.98
49	WH	501	GDP	C3'-C2'-C1'	2.74	105.10	100.98
49	JD	501	GDP	C3'-C2'-C1'	2.73	105.09	100.98
47	RI	501	GTP	C3'-C2'-C1'	2.73	105.08	100.98
47	NM	501	GTP	PA-O3A-PB	-2.72	123.49	132.83
47	LC	501	GTP	C3'-C2'-C1'	2.72	105.08	100.98
47	TG	501	GTP	C3'-C2'-C1'	2.71	105.06	100.98
47	RM	501	GTP	C2-N1-C6	-2.70	120.12	125.10
47	PI	501	GTP	C3'-C2'-C1'	2.70	105.04	100.98
49	KH	501	GDP	C3'-C2'-C1'	2.70	105.04	100.98
47	FI	501	GTP	C3'-C2'-C1'	2.70	105.04	100.98
49	EH	501	GDP	PA-O3A-PB	-2.69	123.58	132.83
47	OC	501	GTP	PB-O3B-PG	-2.69	123.59	132.83
47	VE	501	GTP	PA-O3A-PB	-2.69	123.60	132.83
47	OG	501	GTP	C3'-C2'-C1'	2.66	104.99	100.98
47	RE	501	GTP	C3'-C2'-C1'	2.66	104.98	100.98
47	EM	501	GTP	C3'-C2'-C1'	2.64	104.95	100.98
47	NE	501	GTP	PA-O3A-PB	-2.63	123.78	132.83
47	OK	501	GTP	PA-O3A-PB	-2.63	123.79	132.83
47	OF	501	GTP	C3'-C2'-C1'	2.60	104.90	100.98
49	JH	501	GDP	C3'-C2'-C1'	2.60	104.89	100.98
47	MM	501	GTP	C3'-C2'-C1'	2.59	104.88	100.98
49	KH	501	GDP	C5-C6-N1	2.59	118.53	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	EH	501	GDP	C3'-C2'-C1'	2.58	104.86	100.98
47	RG	501	GTP	C3'-C2'-C1'	2.57	104.85	100.98
47	VK	501	GTP	PA-O3A-PB	-2.57	124.01	132.83
49	KF	501	GDP	C3'-C2'-C1'	2.56	104.83	100.98
49	KJ	501	GDP	C3'-C2'-C1'	2.55	104.81	100.98
49	AJ	501	GDP	C5-C6-N1	2.53	118.42	113.95
49	RB	501	GDP	C8-N7-C5	2.53	107.81	102.99
49	RB	501	GDP	C5-C6-N1	2.53	118.41	113.95
47	OC	501	GTP	C3'-C2'-C1'	2.52	104.77	100.98
49	MJ	501	GDP	C3'-C2'-C1'	2.52	104.77	100.98
49	GH	501	GDP	C5-C6-N1	2.51	118.38	113.95
47	OI	501	GTP	C3'-C2'-C1'	2.48	104.71	100.98
49	EN	501	GDP	C5-C6-N1	2.48	118.33	113.95
47	WK	501	GTP	PA-O3A-PB	-2.46	124.39	132.83
49	FN	501	GDP	C5-C6-N1	2.45	118.28	113.95
47	UM	501	GTP	PA-O3A-PB	-2.45	124.43	132.83
49	AJ	501	GDP	C2'-C3'-C4'	2.43	107.37	102.64
49	FJ	501	GDP	C5-C6-N1	2.43	118.24	113.95
49	BH	501	GDP	C8-N7-C5	2.42	107.60	102.99
49	KB	501	GDP	C8-N7-C5	2.41	107.58	102.99
47	JK	501	GTP	PA-O3A-PB	-2.41	124.57	132.83
49	CJ	501	GDP	C8-N7-C5	2.40	107.57	102.99
49	CH	501	GDP	C5-C6-N1	2.40	118.19	113.95
49	KH	501	GDP	C8-N7-C5	2.40	107.56	102.99
49	PJ	501	GDP	C8-N7-C5	2.40	107.56	102.99
49	IJ	501	GDP	C8-N7-C5	2.40	107.56	102.99
49	HL	501	GDP	C8-N7-C5	2.40	107.56	102.99
49	ND	502	GDP	C5-C6-N1	2.40	118.18	113.95
49	OD	501	GDP	C8-N7-C5	2.40	107.55	102.99
49	EN	501	GDP	C3'-C2'-C1'	2.39	104.58	100.98
49	QF	501	GDP	C5-C6-N1	2.39	118.18	113.95
49	QJ	501	GDP	C5-C6-N1	2.39	118.18	113.95
49	PL	501	GDP	C8-N7-C5	2.39	107.55	102.99
49	ID	501	GDP	C8-N7-C5	2.39	107.55	102.99
49	UL	501	GDP	C8-N7-C5	2.39	107.55	102.99
47	VC	501	GTP	PA-O3A-PB	-2.39	124.62	132.83
49	KJ	501	GDP	C8-N7-C5	2.39	107.54	102.99
49	ID	501	GDP	C5-C6-N1	2.38	118.16	113.95
49	IL	501	GDP	C8-N7-C5	2.38	107.53	102.99
49	CL	501	GDP	C8-N7-C5	2.38	107.53	102.99
49	BJ	501	GDP	C8-N7-C5	2.38	107.53	102.99
49	AB	501	GDP	C5-C6-N1	2.38	118.15	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	ON	501	GDP	C8-N7-C5	2.38	107.52	102.99
49	WH	501	GDP	C8-N7-C5	2.38	107.52	102.99
49	PN	502	GDP	C8-N7-C5	2.37	107.51	102.99
47	LE	501	GTP	O6-C6-C5	-2.37	119.73	124.37
47	QG	501	GTP	PA-O3A-PB	-2.37	124.68	132.83
49	DD	501	GDP	C5-C6-N1	2.37	118.14	113.95
49	BN	501	GDP	C5-C6-N1	2.37	118.14	113.95
47	NI	501	GTP	O6-C6-C5	-2.37	119.74	124.37
49	HJ	501	GDP	C8-N7-C5	2.37	107.51	102.99
49	KF	501	GDP	C8-N7-C5	2.37	107.50	102.99
49	LD	501	GDP	C5-C6-N1	2.37	118.14	113.95
49	WB	501	GDP	C5-C6-N1	2.37	118.14	113.95
49	VD	501	GDP	C5-C6-N1	2.37	118.13	113.95
49	HH	501	GDP	C8-N7-C5	2.37	107.50	102.99
49	UH	501	GDP	C8-N7-C5	2.37	107.50	102.99
49	BF	501	GDP	C8-N7-C5	2.37	107.50	102.99
49	OH	501	GDP	C8-N7-C5	2.37	107.50	102.99
49	ED	501	GDP	C5-C6-N1	2.37	118.13	113.95
49	JD	501	GDP	C8-N7-C5	2.37	107.50	102.99
49	CD	501	GDP	C8-N7-C5	2.36	107.49	102.99
49	OL	501	GDP	C8-N7-C5	2.36	107.49	102.99
49	PF	501	GDP	C8-N7-C5	2.36	107.49	102.99
49	EF	501	GDP	C5-C6-N1	2.36	118.12	113.95
49	MD	501	GDP	C8-N7-C5	2.36	107.49	102.99
49	VD	501	GDP	C8-N7-C5	2.36	107.48	102.99
49	WH	501	GDP	C5-C6-N1	2.36	118.12	113.95
49	WN	501	GDP	C5-C6-N1	2.36	118.12	113.95
47	AK	501	GTP	O6-C6-C5	-2.36	119.77	124.37
49	QD	501	GDP	C8-N7-C5	2.36	107.48	102.99
49	PN	502	GDP	C5-C6-N1	2.36	118.12	113.95
49	NJ	501	GDP	C5-C6-N1	2.36	118.11	113.95
49	TB	501	GDP	C5-C6-N1	2.36	118.11	113.95
49	VH	501	GDP	C8-N7-C5	2.36	107.48	102.99
49	UD	501	GDP	C8-N7-C5	2.35	107.48	102.99
49	SJ	501	GDP	C5-C6-N1	2.35	118.11	113.95
49	WF	501	GDP	C5-C6-N1	2.35	118.11	113.95
49	VJ	501	GDP	C8-N7-C5	2.35	107.47	102.99
49	LL	501	GDP	C5-C6-N1	2.35	118.11	113.95
49	LN	501	GDP	C5-C6-N1	2.35	118.11	113.95
49	BL	501	GDP	C8-N7-C5	2.35	107.47	102.99
49	BN	501	GDP	C8-N7-C5	2.35	107.47	102.99
49	WN	501	GDP	C8-N7-C5	2.35	107.47	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	WD	501	GDP	C5-C6-N1	2.35	118.10	113.95
49	CN	501	GDP	C8-N7-C5	2.35	107.46	102.99
49	PH	501	GDP	C8-N7-C5	2.35	107.46	102.99
49	DJ	501	GDP	C5-C6-N1	2.35	118.10	113.95
49	IN	501	GDP	C5-C6-N1	2.35	118.09	113.95
49	AD	501	GDP	C5-C6-N1	2.34	118.09	113.95
49	UJ	501	GDP	C8-N7-C5	2.34	107.46	102.99
47	NK	501	GTP	O6-C6-C5	-2.34	119.79	124.37
49	IF	501	GDP	C8-N7-C5	2.34	107.45	102.99
49	JH	501	GDP	C8-N7-C5	2.34	107.45	102.99
49	HB	501	GDP	C8-N7-C5	2.34	107.45	102.99
49	UN	501	GDP	C8-N7-C5	2.34	107.45	102.99
49	MD	501	GDP	C5-C6-N1	2.34	118.09	113.95
49	WB	501	GDP	C8-N7-C5	2.34	107.45	102.99
49	KJ	501	GDP	C5-C6-N1	2.34	118.08	113.95
49	NB	501	GDP	C8-N7-C5	2.34	107.45	102.99
47	LK	501	GTP	O6-C6-C5	-2.34	119.80	124.37
49	SF	501	GDP	C8-N7-C5	2.34	107.44	102.99
49	FB	501	GDP	C8-N7-C5	2.34	107.44	102.99
49	VB	501	GDP	C8-N7-C5	2.34	107.44	102.99
49	UF	501	GDP	C8-N7-C5	2.34	107.44	102.99
49	JJ	501	GDP	C8-N7-C5	2.34	107.44	102.99
49	AL	501	GDP	C5-C6-N1	2.34	118.08	113.95
49	CL	501	GDP	C5-C6-N1	2.33	118.08	113.95
47	VE	501	GTP	O6-C6-C5	-2.33	119.81	124.37
49	GB	502	GDP	C8-N7-C5	2.33	107.44	102.99
49	GJ	501	GDP	C5-C6-N1	2.33	118.07	113.95
49	SD	501	GDP	C8-N7-C5	2.33	107.43	102.99
49	TJ	501	GDP	C8-N7-C5	2.33	107.43	102.99
47	NE	501	GTP	O6-C6-C5	-2.33	119.82	124.37
49	EB	501	GDP	C8-N7-C5	2.33	107.43	102.99
49	WF	501	GDP	C8-N7-C5	2.33	107.43	102.99
49	MH	501	GDP	C5-C6-N1	2.33	118.07	113.95
49	ND	502	GDP	C8-N7-C5	2.33	107.43	102.99
49	RN	501	GDP	C8-N7-C5	2.33	107.43	102.99
49	NN	501	GDP	C5-C6-N1	2.33	118.06	113.95
49	FD	501	GDP	C8-N7-C5	2.33	107.43	102.99
49	LB	501	GDP	C8-N7-C5	2.33	107.43	102.99
49	NN	501	GDP	C8-N7-C5	2.33	107.43	102.99
49	LH	501	GDP	C5-C6-N1	2.33	118.06	113.95
49	KD	501	GDP	C8-N7-C5	2.33	107.42	102.99
49	NF	501	GDP	C5-C6-N1	2.33	118.06	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	DF	501	GDP	C8-N7-C5	2.33	107.42	102.99
49	DL	501	GDP	C8-N7-C5	2.33	107.42	102.99
49	HD	501	GDP	C8-N7-C5	2.33	107.42	102.99
49	VF	501	GDP	C8-N7-C5	2.33	107.42	102.99
49	HN	501	GDP	C5-C6-N1	2.33	118.06	113.95
49	NL	501	GDP	C5-C6-N1	2.33	118.06	113.95
49	VH	501	GDP	C5-C6-N1	2.33	118.06	113.95
49	LL	501	GDP	C8-N7-C5	2.33	107.42	102.99
49	AF	501	GDP	C5-C6-N1	2.33	118.06	113.95
49	BB	501	GDP	C8-N7-C5	2.33	107.42	102.99
49	EL	501	GDP	C8-N7-C5	2.33	107.42	102.99
49	JF	501	GDP	C8-N7-C5	2.33	107.42	102.99
49	QN	501	GDP	C8-N7-C5	2.33	107.42	102.99
49	RH	501	GDP	C5-C6-N1	2.33	118.06	113.95
49	FL	502	GDP	C8-N7-C5	2.32	107.42	102.99
49	NB	501	GDP	C5-C6-N1	2.32	118.06	113.95
49	DB	501	GDP	C8-N7-C5	2.32	107.42	102.99
49	GJ	501	GDP	C8-N7-C5	2.32	107.42	102.99
49	FD	501	GDP	C5-C6-N1	2.32	118.05	113.95
49	CD	501	GDP	C5-C6-N1	2.32	118.05	113.95
49	DN	501	GDP	C8-N7-C5	2.32	107.41	102.99
49	HH	501	GDP	C5-C6-N1	2.32	118.05	113.95
49	NL	501	GDP	C8-N7-C5	2.32	107.41	102.99
49	AN	501	GDP	C5-C6-N1	2.32	118.05	113.95
49	SN	501	GDP	C8-N7-C5	2.32	107.41	102.99
49	OH	501	GDP	C5-C6-N1	2.32	118.05	113.95
49	HN	501	GDP	C8-N7-C5	2.32	107.41	102.99
49	UN	501	GDP	C5-C6-N1	2.32	118.04	113.95
49	GD	501	GDP	C5-C6-N1	2.32	118.04	113.95
49	NH	501	GDP	C5-C6-N1	2.32	118.04	113.95
49	VL	501	GDP	C8-N7-C5	2.32	107.40	102.99
49	HL	501	GDP	C5-C6-N1	2.32	118.04	113.95
49	CH	501	GDP	C8-N7-C5	2.32	107.40	102.99
47	KE	501	GTP	O6-C6-C5	-2.32	119.85	124.37
49	DJ	501	GDP	C8-N7-C5	2.31	107.40	102.99
49	NF	501	GDP	C8-N7-C5	2.31	107.40	102.99
49	LJ	501	GDP	C8-N7-C5	2.31	107.40	102.99
49	DH	501	GDP	C8-N7-C5	2.31	107.39	102.99
49	HF	501	GDP	C8-N7-C5	2.31	107.39	102.99
49	EH	501	GDP	C8-N7-C5	2.31	107.39	102.99
49	AL	501	GDP	C8-N7-C5	2.31	107.39	102.99
49	MJ	501	GDP	C8-N7-C5	2.31	107.39	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	TL	501	GDP	C8-N7-C5	2.31	107.39	102.99
49	IF	501	GDP	C5-C6-N1	2.31	118.03	113.95
47	QG	501	GTP	O6-C6-C5	-2.31	119.86	124.37
49	SH	501	GDP	C8-N7-C5	2.31	107.39	102.99
49	RF	501	GDP	C5-C6-N1	2.31	118.03	113.95
49	OF	502	GDP	C8-N7-C5	2.31	107.39	102.99
49	KD	501	GDP	C5-C6-N1	2.31	118.03	113.95
49	PB	501	GDP	C8-N7-C5	2.31	107.39	102.99
49	AN	501	GDP	C8-N7-C5	2.31	107.39	102.99
49	OJ	501	GDP	C8-N7-C5	2.31	107.39	102.99
49	WL	501	GDP	C8-N7-C5	2.31	107.39	102.99
49	BJ	501	GDP	C5-C6-N1	2.31	118.03	113.95
49	PD	502	GDP	C5-C6-N1	2.31	118.02	113.95
49	LF	501	GDP	C8-N7-C5	2.31	107.38	102.99
49	ON	501	GDP	C5-C6-N1	2.31	118.02	113.95
49	IN	501	GDP	C8-N7-C5	2.31	107.38	102.99
49	JL	501	GDP	C8-N7-C5	2.31	107.38	102.99
49	LH	501	GDP	C8-N7-C5	2.31	107.38	102.99
49	QH	501	GDP	C8-N7-C5	2.31	107.38	102.99
49	SB	501	GDP	C8-N7-C5	2.31	107.38	102.99
49	NH	501	GDP	C8-N7-C5	2.30	107.38	102.99
49	SL	501	GDP	C5-C6-N1	2.30	118.02	113.95
49	JH	501	GDP	C5-C6-N1	2.30	118.02	113.95
49	TN	501	GDP	C8-N7-C5	2.30	107.38	102.99
49	UB	501	GDP	C8-N7-C5	2.30	107.37	102.99
49	IL	501	GDP	C5-C6-N1	2.30	118.01	113.95
49	MF	501	GDP	C8-N7-C5	2.30	107.37	102.99
49	EB	501	GDP	C5-C6-N1	2.30	118.01	113.95
49	AD	501	GDP	C8-N7-C5	2.30	107.37	102.99
49	AH	501	GDP	C8-N7-C5	2.30	107.37	102.99
49	DH	501	GDP	C5-C6-N1	2.30	118.01	113.95
49	AF	501	GDP	C8-N7-C5	2.30	107.37	102.99
49	SL	501	GDP	C8-N7-C5	2.30	107.37	102.99
49	OF	502	GDP	C5-C6-N1	2.30	118.01	113.95
49	LD	501	GDP	C8-N7-C5	2.30	107.37	102.99
49	OB	501	GDP	C8-N7-C5	2.30	107.37	102.99
49	AH	501	GDP	C5-C6-N1	2.30	118.01	113.95
49	BH	501	GDP	C5-C6-N1	2.30	118.01	113.95
49	BL	501	GDP	C5-C6-N1	2.30	118.01	113.95
49	DB	501	GDP	C5-C6-N1	2.30	118.01	113.95
49	EJ	501	GDP	C5-C6-N1	2.30	118.01	113.95
49	GD	501	GDP	C8-N7-C5	2.30	107.37	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	DL	501	GDP	C5-C6-N1	2.30	118.01	113.95
49	LJ	501	GDP	C5-C6-N1	2.30	118.01	113.95
49	RL	501	GDP	C8-N7-C5	2.29	107.36	102.99
49	WD	501	GDP	C8-N7-C5	2.29	107.36	102.99
49	WJ	501	GDP	C8-N7-C5	2.29	107.36	102.99
49	OJ	501	GDP	C5-C6-N1	2.29	118.00	113.95
49	JN	501	GDP	C5-C6-N1	2.29	118.00	113.95
49	FL	502	GDP	C5-C6-N1	2.29	118.00	113.95
49	JN	501	GDP	C8-N7-C5	2.29	107.36	102.99
49	LN	501	GDP	C8-N7-C5	2.29	107.36	102.99
49	BD	501	GDP	C8-N7-C5	2.29	107.35	102.99
49	KB	501	GDP	C5-C6-N1	2.29	118.00	113.95
49	LB	501	GDP	C5-C6-N1	2.29	118.00	113.95
49	PD	502	GDP	C8-N7-C5	2.29	107.35	102.99
47	EE	501	GTP	O6-C6-C5	-2.29	119.90	124.37
49	IH	501	GDP	C8-N7-C5	2.29	107.35	102.99
49	NJ	501	GDP	C8-N7-C5	2.29	107.35	102.99
49	JD	501	GDP	C5-C6-N1	2.29	117.99	113.95
49	TN	501	GDP	C5-C6-N1	2.29	117.99	113.95
49	IB	501	GDP	C8-N7-C5	2.29	107.35	102.99
49	CF	501	GDP	C8-N7-C5	2.29	107.35	102.99
49	CJ	501	GDP	C5-C6-N1	2.29	117.99	113.95
49	FH	501	GDP	C5-C6-N1	2.29	117.99	113.95
49	GF	501	GDP	C8-N7-C5	2.29	107.34	102.99
49	VL	501	GDP	C5-C6-N1	2.29	117.99	113.95
47	LI	501	GTP	O6-C6-C5	-2.28	119.91	124.37
49	UB	501	GDP	C5-C6-N1	2.28	117.98	113.95
49	PB	501	GDP	C5-C6-N1	2.28	117.98	113.95
49	DN	501	GDP	C5-C6-N1	2.28	117.98	113.95
49	TB	501	GDP	C8-N7-C5	2.28	107.34	102.99
49	PL	501	GDP	C5-C6-N1	2.28	117.98	113.95
49	TH	501	GDP	C5-C6-N1	2.28	117.98	113.95
49	MB	501	GDP	C8-N7-C5	2.28	107.34	102.99
49	CN	501	GDP	C5-C6-N1	2.28	117.98	113.95
49	MB	501	GDP	C5-C6-N1	2.28	117.98	113.95
49	TL	501	GDP	C5-C6-N1	2.28	117.98	113.95
49	GB	502	GDP	C5-C6-N1	2.28	117.98	113.95
49	GL	502	GDP	C8-N7-C5	2.28	107.33	102.99
47	AA	501	GTP	O6-C6-C5	-2.28	119.92	124.37
49	HD	501	GDP	C5-C6-N1	2.28	117.98	113.95
49	QL	501	GDP	C8-N7-C5	2.28	107.33	102.99
49	BB	501	GDP	C5-C6-N1	2.28	117.98	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	MJ	501	GDP	C5-C6-N1	2.28	117.98	113.95
49	MN	501	GDP	C5-C6-N1	2.28	117.98	113.95
49	QB	501	GDP	C8-N7-C5	2.28	107.33	102.99
49	QJ	501	GDP	C8-N7-C5	2.28	107.33	102.99
49	GN	502	GDP	C8-N7-C5	2.28	107.33	102.99
49	BF	501	GDP	C5-C6-N1	2.28	117.97	113.95
49	EH	501	GDP	C5-C6-N1	2.28	117.97	113.95
49	SN	501	GDP	C5-C6-N1	2.28	117.97	113.95
49	KL	501	GDP	C8-N7-C5	2.28	107.33	102.99
49	SF	501	GDP	C5-C6-N1	2.28	117.97	113.95
49	FJ	501	GDP	C8-N7-C5	2.27	107.32	102.99
49	RH	501	GDP	C8-N7-C5	2.27	107.32	102.99
49	GL	502	GDP	C5-C6-N1	2.27	117.97	113.95
49	HB	501	GDP	C5-C6-N1	2.27	117.97	113.95
49	KN	501	GDP	C8-N7-C5	2.27	107.32	102.99
47	RK	501	GTP	O6-C6-C5	-2.27	119.93	124.37
49	RD	501	GDP	C5-C6-N1	2.27	117.96	113.95
49	JF	501	GDP	C5-C6-N1	2.27	117.96	113.95
49	TD	501	GDP	C8-N7-C5	2.27	107.32	102.99
49	UL	501	GDP	C5-C6-N1	2.27	117.96	113.95
49	GN	502	GDP	C5-C6-N1	2.27	117.96	113.95
47	NG	501	GTP	O6-C6-C5	-2.27	119.94	124.37
49	RJ	501	GDP	C8-N7-C5	2.27	107.31	102.99
49	DF	501	GDP	C5-C6-N1	2.27	117.96	113.95
49	QL	501	GDP	C5-C6-N1	2.27	117.96	113.95
47	QK	501	GTP	PA-O3A-PB	-2.27	125.05	132.83
49	MH	501	GDP	C8-N7-C5	2.27	107.31	102.99
47	LA	501	GTP	O6-C6-C5	-2.27	119.94	124.37
49	QH	501	GDP	C5-C6-N1	2.27	117.95	113.95
49	RN	501	GDP	C5-C6-N1	2.27	117.95	113.95
49	TJ	501	GDP	C5-C6-N1	2.27	117.95	113.95
49	UD	501	GDP	C5-C6-N1	2.27	117.95	113.95
49	WL	501	GDP	C5-C6-N1	2.27	117.95	113.95
49	RD	501	GDP	C8-N7-C5	2.26	107.30	102.99
47	AI	501	GTP	O6-C6-C5	-2.26	119.95	124.37
49	PJ	501	GDP	C5-C6-N1	2.26	117.95	113.95
49	JB	501	GDP	C8-N7-C5	2.26	107.30	102.99
49	KN	501	GDP	C5-C6-N1	2.26	117.95	113.95
49	ML	501	GDP	C8-N7-C5	2.26	107.30	102.99
49	GH	501	GDP	C8-N7-C5	2.26	107.30	102.99
49	IB	501	GDP	C5-C6-N1	2.26	117.94	113.95
49	RF	501	GDP	C8-N7-C5	2.26	107.30	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	CB	501	GDP	C5-C6-N1	2.26	117.94	113.95
49	FH	501	GDP	C8-N7-C5	2.26	107.29	102.99
49	VN	501	GDP	C8-N7-C5	2.26	107.29	102.99
49	KL	501	GDP	C5-C6-N1	2.26	117.94	113.95
49	QD	501	GDP	C5-C6-N1	2.26	117.94	113.95
49	QB	501	GDP	C5-C6-N1	2.26	117.94	113.95
49	EN	501	GDP	C8-N7-C5	2.26	107.29	102.99
49	QF	501	GDP	C8-N7-C5	2.26	107.29	102.99
49	CB	501	GDP	C8-N7-C5	2.25	107.29	102.99
47	AG	501	GTP	O6-C6-C5	-2.25	119.97	124.37
49	LF	501	GDP	C5-C6-N1	2.25	117.93	113.95
49	VB	501	GDP	C5-C6-N1	2.25	117.93	113.95
47	OM	501	GTP	O6-C6-C5	-2.25	119.97	124.37
49	FF	501	GDP	C8-N7-C5	2.25	107.28	102.99
49	ED	501	GDP	C8-N7-C5	2.25	107.28	102.99
49	JJ	501	GDP	C5-C6-N1	2.25	117.93	113.95
49	QN	501	GDP	C5-C6-N1	2.25	117.93	113.95
49	SD	501	GDP	C5-C6-N1	2.25	117.93	113.95
47	QK	501	GTP	O6-C6-C5	-2.25	119.98	124.37
49	GF	501	GDP	C5-C6-N1	2.25	117.92	113.95
49	FN	501	GDP	C8-N7-C5	2.25	107.28	102.99
49	ML	501	GDP	C5-C6-N1	2.25	117.92	113.95
49	UH	501	GDP	C5-C6-N1	2.25	117.92	113.95
49	TF	501	GDP	C8-N7-C5	2.25	107.27	102.99
49	MF	501	GDP	C5-C6-N1	2.25	117.92	113.95
49	TD	501	GDP	C5-C6-N1	2.25	117.92	113.95
49	UF	501	GDP	C5-C6-N1	2.25	117.92	113.95
49	HF	501	GDP	C5-C6-N1	2.25	117.92	113.95
47	SI	501	GTP	O6-C6-C5	-2.24	119.99	124.37
49	JL	501	GDP	C5-C6-N1	2.24	117.91	113.95
49	TH	501	GDP	C8-N7-C5	2.24	107.26	102.99
47	IE	501	GTP	O6-C6-C5	-2.24	119.99	124.37
49	RL	501	GDP	C5-C6-N1	2.24	117.91	113.95
49	DD	501	GDP	C8-N7-C5	2.24	107.26	102.99
49	OL	501	GDP	C5-C6-N1	2.24	117.91	113.95
47	RC	501	GTP	O6-C6-C5	-2.24	120.00	124.37
49	FB	501	GDP	C5-C6-N1	2.24	117.90	113.95
49	TF	501	GDP	C5-C6-N1	2.24	117.90	113.95
49	KF	501	GDP	C5-C6-N1	2.24	117.90	113.95
49	EJ	501	GDP	C8-N7-C5	2.24	107.25	102.99
49	PH	501	GDP	C5-C6-N1	2.23	117.89	113.95
49	UJ	501	GDP	C5-C6-N1	2.23	117.89	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	VF	501	GDP	C5-C6-N1	2.23	117.89	113.95
49	PF	501	GDP	C5-C6-N1	2.23	117.89	113.95
49	EF	501	GDP	C8-N7-C5	2.23	107.23	102.99
47	QA	501	GTP	O6-C6-C5	-2.23	120.02	124.37
47	AE	501	GTP	O6-C6-C5	-2.23	120.03	124.37
47	IG	501	GTP	O6-C6-C5	-2.23	120.03	124.37
47	SG	501	GTP	O6-C6-C5	-2.22	120.03	124.37
49	WJ	501	GDP	C5-C6-N1	2.22	117.87	113.95
49	AJ	501	GDP	C8-N7-C5	2.22	107.22	102.99
47	MM	501	GTP	O6-C6-C5	-2.22	120.04	124.37
49	MN	501	GDP	C8-N7-C5	2.22	107.21	102.99
47	GE	501	GTP	O6-C6-C5	-2.21	120.05	124.37
49	BD	501	GDP	C5-C6-N1	2.21	117.86	113.95
49	SH	501	GDP	C5-C6-N1	2.21	117.86	113.95
49	VN	501	GDP	C5-C6-N1	2.21	117.86	113.95
47	FG	501	GTP	O6-C6-C5	-2.21	120.05	124.37
49	IJ	501	GDP	C5-C6-N1	2.21	117.86	113.95
47	JE	501	GTP	O6-C6-C5	-2.21	120.06	124.37
49	SB	501	GDP	C5-C6-N1	2.21	117.85	113.95
47	NM	501	GTP	O6-C6-C5	-2.21	120.06	124.37
47	NC	501	GTP	O6-C6-C5	-2.21	120.06	124.37
49	IH	501	GDP	C5-C6-N1	2.21	117.85	113.95
47	KC	501	GTP	O6-C6-C5	-2.20	120.07	124.37
47	IK	501	GTP	O6-C6-C5	-2.20	120.07	124.37
49	VJ	501	GDP	C5-C6-N1	2.20	117.84	113.95
47	RG	501	GTP	O6-C6-C5	-2.20	120.08	124.37
47	BE	501	GTP	O6-C6-C5	-2.20	120.08	124.37
49	AB	501	GDP	C8-N7-C5	2.19	107.17	102.99
49	OD	501	GDP	C5-C6-N1	2.19	117.83	113.95
49	JB	501	GDP	C5-C6-N1	2.19	117.82	113.95
47	KG	501	GTP	O6-C6-C5	-2.19	120.09	124.37
47	AC	501	GTP	O6-C6-C5	-2.19	120.09	124.37
47	DK	501	GTP	PA-O3A-PB	-2.19	125.31	132.83
47	ME	501	GTP	O6-C6-C5	-2.19	120.10	124.37
49	SJ	501	GDP	C8-N7-C5	2.19	107.16	102.99
49	OB	501	GDP	C5-C6-N1	2.19	117.82	113.95
49	AB	501	GDP	O6-C6-C5	-2.19	120.10	124.37
47	LM	501	GTP	O6-C6-C5	-2.19	120.10	124.37
47	RI	501	GTP	O6-C6-C5	-2.19	120.10	124.37
47	GG	501	GTP	O6-C6-C5	-2.19	120.10	124.37
47	FI	501	GTP	O6-C6-C5	-2.19	120.10	124.37
47	OF	501	GTP	O6-C6-C5	-2.19	120.10	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	FF	501	GDP	C5-C6-N1	2.18	117.81	113.95
47	EI	501	GTP	O6-C6-C5	-2.18	120.11	124.37
47	JC	501	GTP	O6-C6-C5	-2.18	120.11	124.37
47	FC	501	GTP	O6-C6-C5	-2.18	120.11	124.37
47	TA	501	GTP	O6-C6-C5	-2.18	120.11	124.37
47	MI	501	GTP	O6-C6-C5	-2.18	120.11	124.37
47	BI	501	GTP	O6-C6-C5	-2.18	120.12	124.37
47	UA	501	GTP	O6-C6-C5	-2.18	120.12	124.37
47	SC	501	GTP	O6-C6-C5	-2.18	120.12	124.37
47	GC	501	GTP	O6-C6-C5	-2.18	120.12	124.37
49	HJ	501	GDP	C5-C6-N1	2.17	117.79	113.95
47	GA	501	GTP	O6-C6-C5	-2.17	120.13	124.37
47	KI	501	GTP	O6-C6-C5	-2.17	120.13	124.37
47	LC	501	GTP	O6-C6-C5	-2.17	120.13	124.37
49	EL	501	GDP	C5-C6-N1	2.17	117.78	113.95
47	EG	501	GTP	O6-C6-C5	-2.17	120.13	124.37
47	BK	501	GTP	O6-C6-C5	-2.17	120.14	124.37
47	EC	501	GTP	O6-C6-C5	-2.16	120.15	124.37
47	HE	501	GTP	O6-C6-C5	-2.16	120.15	124.37
49	RJ	501	GDP	C5-C6-N1	2.16	117.77	113.95
47	DC	501	GTP	O6-C6-C5	-2.16	120.16	124.37
47	TG	501	GTP	O6-C6-C5	-2.15	120.17	124.37
49	EH	501	GDP	O2B-PB-O3A	2.15	111.84	104.64
47	DG	501	GTP	O6-C6-C5	-2.15	120.18	124.37
47	MA	501	GTP	O6-C6-C5	-2.15	120.18	124.37
47	KA	501	GTP	O6-C6-C5	-2.14	120.18	124.37
47	MK	501	GTP	O6-C6-C5	-2.14	120.19	124.37
47	CK	501	GTP	O6-C6-C5	-2.14	120.19	124.37
47	OA	501	GTP	O6-C6-C5	-2.14	120.19	124.37
47	AM	501	GTP	O6-C6-C5	-2.14	120.20	124.37
47	BC	502	GTP	O6-C6-C5	-2.14	120.20	124.37
47	EA	501	GTP	O6-C6-C5	-2.14	120.20	124.37
47	II	501	GTP	O6-C6-C5	-2.13	120.21	124.37
47	SA	501	GTP	O6-C6-C5	-2.13	120.21	124.37
47	DA	501	GTP	O6-C6-C5	-2.13	120.22	124.37
47	MC	501	GTP	O6-C6-C5	-2.13	120.22	124.37
47	MG	501	GTP	O6-C6-C5	-2.13	120.22	124.37
47	GK	501	GTP	O6-C6-C5	-2.12	120.22	124.37
47	VK	501	GTP	O6-C6-C5	-2.12	120.22	124.37
47	PK	501	GTP	O6-C6-C5	-2.12	120.23	124.37
47	GM	501	GTP	O6-C6-C5	-2.12	120.23	124.37
47	RA	501	GTP	O6-C6-C5	-2.12	120.23	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	WC	501	GTP	O6-C6-C5	-2.12	120.23	124.37
47	FM	501	GTP	O6-C6-C5	-2.12	120.23	124.37
47	KK	501	GTP	O6-C6-C5	-2.12	120.24	124.37
47	UI	501	GTP	O6-C6-C5	-2.12	120.24	124.37
47	HI	501	GTP	O6-C6-C5	-2.11	120.24	124.37
47	DE	501	GTP	O6-C6-C5	-2.11	120.25	124.37
47	LG	501	GTP	O6-C6-C5	-2.11	120.25	124.37
47	EK	501	GTP	O6-C6-C5	-2.11	120.25	124.37
47	SE	501	GTP	O6-C6-C5	-2.11	120.25	124.37
49	CF	501	GDP	C5-C6-N1	2.11	117.68	113.95
47	UC	501	GTP	O6-C6-C5	-2.11	120.25	124.37
47	CI	501	GTP	O6-C6-C5	-2.11	120.26	124.37
47	NA	501	GTP	O6-C6-C5	-2.11	120.26	124.37
49	SJ	501	GDP	C2'-C3'-C4'	2.10	106.73	102.64
47	QI	501	GTP	O6-C6-C5	-2.10	120.26	124.37
47	UG	501	GTP	O6-C6-C5	-2.10	120.26	124.37
47	HA	501	GTP	O6-C6-C5	-2.10	120.26	124.37
47	OC	501	GTP	O6-C6-C5	-2.10	120.26	124.37
47	RE	501	GTP	O6-C6-C5	-2.10	120.27	124.37
47	FA	501	GTP	O6-C6-C5	-2.10	120.27	124.37
47	VM	501	GTP	O6-C6-C5	-2.10	120.27	124.37
47	CA	501	GTP	O6-C6-C5	-2.10	120.27	124.37
47	BG	501	GTP	O6-C6-C5	-2.10	120.28	124.37
47	FE	501	GTP	O6-C6-C5	-2.10	120.28	124.37
47	OG	501	GTP	O6-C6-C5	-2.10	120.28	124.37
49	AJ	501	GDP	O6-C6-C5	-2.09	120.28	124.37
47	HM	501	GTP	O6-C6-C5	-2.09	120.28	124.37
47	WG	501	GTP	O6-C6-C5	-2.09	120.28	124.37
47	JG	501	GTP	O6-C6-C5	-2.09	120.29	124.37
47	TK	501	GTP	O6-C6-C5	-2.09	120.29	124.37
47	KM	501	GTP	O6-C6-C5	-2.09	120.29	124.37
47	PA	501	GTP	O6-C6-C5	-2.09	120.29	124.37
47	QC	501	GTP	O6-C6-C5	-2.09	120.30	124.37
47	UK	501	GTP	O6-C6-C5	-2.09	120.30	124.37
47	HG	501	GTP	O6-C6-C5	-2.08	120.30	124.37
47	TE	501	GTP	O6-C6-C5	-2.08	120.30	124.37
47	UE	501	GTP	O6-C6-C5	-2.08	120.30	124.37
47	CM	501	GTP	O6-C6-C5	-2.08	120.31	124.37
47	JM	501	GTP	O6-C6-C5	-2.08	120.31	124.37
49	BH	501	GDP	C2'-C3'-C4'	2.08	106.68	102.64
47	DM	501	GTP	O6-C6-C5	-2.08	120.31	124.37
47	SM	501	GTP	O6-C6-C5	-2.08	120.31	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	TI	501	GTP	O6-C6-C5	-2.08	120.31	124.37
47	IA	501	GTP	O6-C6-C5	-2.08	120.31	124.37
47	SK	501	GTP	O6-C6-C5	-2.07	120.32	124.37
49	MJ	501	GDP	C2'-C3'-C4'	2.07	106.66	102.64
47	UM	501	GTP	O6-C6-C5	-2.07	120.34	124.37
47	DK	501	GTP	O6-C6-C5	-2.07	120.34	124.37
47	BM	501	GTP	O6-C6-C5	-2.06	120.34	124.37
47	VG	501	GTP	O6-C6-C5	-2.06	120.34	124.37
47	IC	501	GTP	O6-C6-C5	-2.06	120.35	124.37
47	CC	501	GTP	O6-C6-C5	-2.06	120.36	124.37
47	GI	501	GTP	O6-C6-C5	-2.05	120.37	124.37
47	CG	501	GTP	O6-C6-C5	-2.05	120.38	124.37
47	QE	501	GTP	O6-C6-C5	-2.04	120.38	124.37
47	WA	501	GTP	O6-C6-C5	-2.04	120.39	124.37
47	OI	501	GTP	O6-C6-C5	-2.04	120.39	124.37
47	OK	501	GTP	O6-C6-C5	-2.04	120.39	124.37
47	JK	501	GTP	O6-C6-C5	-2.04	120.40	124.37
47	PD	501	GTP	O6-C6-C5	-2.03	120.40	124.37
49	KD	501	GDP	C2'-C3'-C4'	2.03	106.58	102.64
47	FK	501	GTP	O6-C6-C5	-2.03	120.41	124.37
47	JA	501	GTP	O6-C6-C5	-2.03	120.41	124.37
49	SL	501	GDP	O6-C6-C5	-2.02	120.42	124.37
47	VI	501	GTP	O6-C6-C5	-2.02	120.43	124.37
49	EJ	501	GDP	O6-C6-C5	-2.02	120.43	124.37
49	SH	501	GDP	C2'-C3'-C4'	2.01	106.56	102.64
47	WI	501	GTP	O6-C6-C5	-2.01	120.44	124.37
47	QG	501	GTP	O3G-PG-O3B	2.01	111.37	104.64
47	QM	501	GTP	O6-C6-C5	-2.00	120.46	124.37

There are no chirality outliers.

All (1272) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
47	AA	501	GTP	C5'-O5'-PA-O3A
47	AA	501	GTP	C5'-O5'-PA-O2A
47	AC	501	GTP	C5'-O5'-PA-O1A
47	AC	501	GTP	C5'-O5'-PA-O2A
47	AE	501	GTP	PB-O3A-PA-O5'
47	AE	501	GTP	C5'-O5'-PA-O1A
47	AE	501	GTP	C5'-O5'-PA-O2A
47	AG	501	GTP	C5'-O5'-PA-O1A
47	AG	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
47	AI	501	GTP	C5'-O5'-PA-O1A
47	AI	501	GTP	C5'-O5'-PA-O2A
47	AK	501	GTP	C5'-O5'-PA-O3A
47	AM	501	GTP	C5'-O5'-PA-O3A
47	AM	501	GTP	C5'-O5'-PA-O2A
47	BA	501	GTP	C5'-O5'-PA-O1A
47	BA	501	GTP	C5'-O5'-PA-O2A
47	BC	502	GTP	PB-O3A-PA-O5'
47	BC	502	GTP	C5'-O5'-PA-O1A
47	BC	502	GTP	C5'-O5'-PA-O2A
47	BE	501	GTP	PB-O3A-PA-O5'
47	BE	501	GTP	C5'-O5'-PA-O1A
47	BE	501	GTP	C5'-O5'-PA-O2A
47	BG	501	GTP	PB-O3A-PA-O5'
47	BG	501	GTP	C5'-O5'-PA-O3A
47	BG	501	GTP	C5'-O5'-PA-O1A
47	BG	501	GTP	C5'-O5'-PA-O2A
47	BI	501	GTP	C5'-O5'-PA-O1A
47	BI	501	GTP	C5'-O5'-PA-O2A
47	BK	501	GTP	PB-O3A-PA-O5'
47	BK	501	GTP	C5'-O5'-PA-O1A
47	BK	501	GTP	C5'-O5'-PA-O2A
47	BM	501	GTP	C5'-O5'-PA-O1A
47	BM	501	GTP	C5'-O5'-PA-O2A
47	BM	501	GTP	C3'-C4'-C5'-O5'
47	CA	501	GTP	C5'-O5'-PA-O3A
47	CA	501	GTP	C5'-O5'-PA-O2A
47	CC	501	GTP	C5'-O5'-PA-O3A
47	CC	501	GTP	C5'-O5'-PA-O2A
47	CG	501	GTP	PB-O3A-PA-O5'
47	CG	501	GTP	C5'-O5'-PA-O3A
47	CG	501	GTP	C5'-O5'-PA-O2A
47	CI	501	GTP	C5'-O5'-PA-O3A
47	CI	501	GTP	C5'-O5'-PA-O2A
47	CK	501	GTP	C5'-O5'-PA-O1A
47	CK	501	GTP	C5'-O5'-PA-O2A
47	CK	501	GTP	O4'-C4'-C5'-O5'
47	CK	501	GTP	C3'-C4'-C5'-O5'
47	CM	501	GTP	C5'-O5'-PA-O1A
47	CM	501	GTP	C5'-O5'-PA-O2A
47	CM	501	GTP	C3'-C4'-C5'-O5'
47	DA	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
47	DA	501	GTP	C5'-O5'-PA-O2A
47	DE	501	GTP	C5'-O5'-PA-O3A
47	DE	501	GTP	C5'-O5'-PA-O2A
47	DG	501	GTP	C5'-O5'-PA-O1A
47	DG	501	GTP	C5'-O5'-PA-O2A
47	DI	501	GTP	C5'-O5'-PA-O1A
47	DI	501	GTP	C5'-O5'-PA-O2A
47	DI	501	GTP	C3'-C4'-C5'-O5'
47	DK	501	GTP	C5'-O5'-PA-O3A
47	DM	501	GTP	C5'-O5'-PA-O1A
47	DM	501	GTP	C5'-O5'-PA-O2A
47	DM	501	GTP	C3'-C4'-C5'-O5'
47	EA	501	GTP	C5'-O5'-PA-O3A
47	EA	501	GTP	C5'-O5'-PA-O2A
47	EC	501	GTP	C5'-O5'-PA-O1A
47	EC	501	GTP	C5'-O5'-PA-O2A
47	EE	501	GTP	C5'-O5'-PA-O1A
47	EE	501	GTP	C5'-O5'-PA-O2A
47	EG	501	GTP	C5'-O5'-PA-O3A
47	EG	501	GTP	C5'-O5'-PA-O2A
47	EI	501	GTP	C5'-O5'-PA-O3A
47	EI	501	GTP	C5'-O5'-PA-O1A
47	EI	501	GTP	C5'-O5'-PA-O2A
47	EK	501	GTP	C5'-O5'-PA-O3A
47	EK	501	GTP	C5'-O5'-PA-O2A
47	EM	501	GTP	C5'-O5'-PA-O1A
47	EM	501	GTP	C5'-O5'-PA-O2A
47	FA	501	GTP	C5'-O5'-PA-O3A
47	FA	501	GTP	C5'-O5'-PA-O1A
47	FA	501	GTP	C5'-O5'-PA-O2A
47	FC	501	GTP	C5'-O5'-PA-O1A
47	FC	501	GTP	C5'-O5'-PA-O2A
47	FE	501	GTP	PB-O3A-PA-O5'
47	FE	501	GTP	C5'-O5'-PA-O1A
47	FE	501	GTP	C5'-O5'-PA-O2A
47	FG	501	GTP	C5'-O5'-PA-O1A
47	FG	501	GTP	C5'-O5'-PA-O2A
47	FI	501	GTP	C5'-O5'-PA-O1A
47	FI	501	GTP	C5'-O5'-PA-O2A
47	FK	501	GTP	PB-O3A-PA-O5'
47	FK	501	GTP	C5'-O5'-PA-O3A
47	FK	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
47	FM	501	GTP	PB-O3A-PA-O5'
47	FM	501	GTP	C5'-O5'-PA-O3A
47	FM	501	GTP	C5'-O5'-PA-O2A
47	GA	501	GTP	C5'-O5'-PA-O3A
47	GA	501	GTP	C5'-O5'-PA-O2A
47	GC	501	GTP	C5'-O5'-PA-O3A
47	GC	501	GTP	C5'-O5'-PA-O1A
47	GC	501	GTP	C5'-O5'-PA-O2A
47	GE	501	GTP	C5'-O5'-PA-O1A
47	GE	501	GTP	C5'-O5'-PA-O2A
47	GE	501	GTP	C3'-C4'-C5'-O5'
47	GG	501	GTP	C5'-O5'-PA-O1A
47	GG	501	GTP	C5'-O5'-PA-O2A
47	GG	501	GTP	C3'-C4'-C5'-O5'
47	GI	501	GTP	PB-O3A-PA-O5'
47	GI	501	GTP	C5'-O5'-PA-O3A
47	GI	501	GTP	C5'-O5'-PA-O1A
47	GI	501	GTP	C5'-O5'-PA-O2A
47	GK	501	GTP	C5'-O5'-PA-O3A
47	GK	501	GTP	C5'-O5'-PA-O2A
47	GM	501	GTP	C5'-O5'-PA-O3A
47	GM	501	GTP	C5'-O5'-PA-O1A
47	GM	501	GTP	C5'-O5'-PA-O2A
47	HA	501	GTP	C5'-O5'-PA-O1A
47	HA	501	GTP	C5'-O5'-PA-O2A
47	HC	501	GTP	C5'-O5'-PA-O3A
47	HC	501	GTP	C5'-O5'-PA-O1A
47	HC	501	GTP	C5'-O5'-PA-O2A
47	HE	501	GTP	PB-O3A-PA-O5'
47	HE	501	GTP	C5'-O5'-PA-O3A
47	HE	501	GTP	C5'-O5'-PA-O1A
47	HE	501	GTP	C5'-O5'-PA-O2A
47	HE	501	GTP	C3'-C4'-C5'-O5'
47	HG	501	GTP	C5'-O5'-PA-O3A
47	HI	501	GTP	C5'-O5'-PA-O1A
47	HI	501	GTP	C5'-O5'-PA-O2A
47	HK	501	GTP	C5'-O5'-PA-O1A
47	HK	501	GTP	C5'-O5'-PA-O2A
47	HK	501	GTP	C3'-C4'-C5'-O5'
47	HM	501	GTP	C5'-O5'-PA-O3A
47	HM	501	GTP	C5'-O5'-PA-O1A
47	HM	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
47	IA	501	GTP	C5'-O5'-PA-O1A
47	IA	501	GTP	C5'-O5'-PA-O2A
47	IC	501	GTP	PB-O3A-PA-O5'
47	IC	501	GTP	C5'-O5'-PA-O1A
47	IC	501	GTP	C5'-O5'-PA-O2A
47	IC	501	GTP	C3'-C4'-C5'-O5'
47	IE	501	GTP	C5'-O5'-PA-O1A
47	IE	501	GTP	C5'-O5'-PA-O2A
47	IE	501	GTP	C3'-C4'-C5'-O5'
47	IG	501	GTP	C5'-O5'-PA-O3A
47	IG	501	GTP	C5'-O5'-PA-O2A
47	II	501	GTP	C5'-O5'-PA-O1A
47	II	501	GTP	C5'-O5'-PA-O2A
47	II	501	GTP	C3'-C4'-C5'-O5'
47	IK	501	GTP	C5'-O5'-PA-O1A
47	IK	501	GTP	C5'-O5'-PA-O2A
47	IK	501	GTP	C3'-C4'-C5'-O5'
47	IM	501	GTP	C5'-O5'-PA-O3A
47	IM	501	GTP	C5'-O5'-PA-O2A
47	JA	501	GTP	C5'-O5'-PA-O3A
47	JA	501	GTP	C5'-O5'-PA-O2A
47	JE	501	GTP	C5'-O5'-PA-O3A
47	JE	501	GTP	C5'-O5'-PA-O2A
47	JG	501	GTP	C5'-O5'-PA-O3A
47	JG	501	GTP	C5'-O5'-PA-O2A
47	JI	501	GTP	C5'-O5'-PA-O3A
47	JI	501	GTP	C5'-O5'-PA-O2A
47	JM	501	GTP	C5'-O5'-PA-O3A
47	JM	501	GTP	C5'-O5'-PA-O1A
47	JM	501	GTP	C5'-O5'-PA-O2A
47	KA	501	GTP	PB-O3A-PA-O5'
47	KA	501	GTP	C5'-O5'-PA-O3A
47	KC	501	GTP	C5'-O5'-PA-O3A
47	KC	501	GTP	C5'-O5'-PA-O2A
47	KE	501	GTP	C5'-O5'-PA-O1A
47	KE	501	GTP	C5'-O5'-PA-O2A
47	KG	501	GTP	C5'-O5'-PA-O3A
47	KG	501	GTP	C5'-O5'-PA-O2A
47	KI	501	GTP	C5'-O5'-PA-O3A
47	KI	501	GTP	C5'-O5'-PA-O1A
47	KI	501	GTP	C5'-O5'-PA-O2A
47	KK	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
47	KM	501	GTP	C5'-O5'-PA-O3A
47	KM	501	GTP	C5'-O5'-PA-O2A
47	LA	501	GTP	PB-O3A-PA-O5'
47	LA	501	GTP	C5'-O5'-PA-O3A
47	LC	501	GTP	PB-O3A-PA-O5'
47	LE	501	GTP	C5'-O5'-PA-O3A
47	LI	501	GTP	PB-O3A-PA-O5'
47	LI	501	GTP	C5'-O5'-PA-O3A
47	LK	501	GTP	C5'-O5'-PA-O3A
47	LM	501	GTP	C5'-O5'-PA-O3A
47	LM	501	GTP	C5'-O5'-PA-O2A
47	MA	501	GTP	C5'-O5'-PA-O3A
47	MA	501	GTP	C5'-O5'-PA-O1A
47	MA	501	GTP	C5'-O5'-PA-O2A
47	MC	501	GTP	C5'-O5'-PA-O1A
47	MC	501	GTP	C5'-O5'-PA-O2A
47	ME	501	GTP	C5'-O5'-PA-O1A
47	ME	501	GTP	C5'-O5'-PA-O2A
47	MG	501	GTP	C5'-O5'-PA-O1A
47	MG	501	GTP	C5'-O5'-PA-O2A
47	MI	501	GTP	C5'-O5'-PA-O1A
47	MI	501	GTP	C5'-O5'-PA-O2A
47	MK	501	GTP	C5'-O5'-PA-O3A
47	MK	501	GTP	C5'-O5'-PA-O1A
47	MK	501	GTP	C5'-O5'-PA-O2A
47	MM	501	GTP	C5'-O5'-PA-O1A
47	MM	501	GTP	C5'-O5'-PA-O2A
47	MM	501	GTP	C3'-C4'-C5'-O5'
47	NA	501	GTP	C5'-O5'-PA-O3A
47	NA	501	GTP	C5'-O5'-PA-O2A
47	NA	501	GTP	C3'-C4'-C5'-O5'
47	NE	501	GTP	PB-O3A-PA-O5'
47	NE	501	GTP	C5'-O5'-PA-O3A
47	NG	501	GTP	PB-O3B-PG-O2G
47	NG	501	GTP	PB-O3B-PG-O3G
47	NK	501	GTP	PB-O3B-PG-O3G
47	NK	501	GTP	C5'-O5'-PA-O1A
47	NM	501	GTP	C3'-C4'-C5'-O5'
47	OA	501	GTP	C5'-O5'-PA-O3A
47	OC	501	GTP	PB-O3B-PG-O2G
47	OC	501	GTP	PB-O3B-PG-O3G
47	OC	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	OF	501	GTP	C5'-O5'-PA-O3A
47	OF	501	GTP	C5'-O5'-PA-O1A
47	OF	501	GTP	C3'-C4'-C5'-O5'
47	OG	501	GTP	PB-O3B-PG-O3G
47	OI	501	GTP	C5'-O5'-PA-O3A
47	OI	501	GTP	C5'-O5'-PA-O1A
47	OI	501	GTP	C3'-C4'-C5'-O5'
47	OM	501	GTP	O4'-C4'-C5'-O5'
47	OM	501	GTP	C3'-C4'-C5'-O5'
47	PA	501	GTP	C5'-O5'-PA-O3A
47	PA	501	GTP	C5'-O5'-PA-O1A
47	PA	501	GTP	C5'-O5'-PA-O2A
47	PD	501	GTP	C5'-O5'-PA-O3A
47	PD	501	GTP	C5'-O5'-PA-O1A
47	PD	501	GTP	C5'-O5'-PA-O2A
47	PD	501	GTP	C3'-C4'-C5'-O5'
47	PE	501	GTP	C5'-O5'-PA-O1A
47	PE	501	GTP	C5'-O5'-PA-O2A
47	PE	501	GTP	C3'-C4'-C5'-O5'
47	PG	501	GTP	C5'-O5'-PA-O3A
47	PG	501	GTP	C5'-O5'-PA-O1A
47	PG	501	GTP	C5'-O5'-PA-O2A
47	PI	501	GTP	C5'-O5'-PA-O3A
47	PI	501	GTP	C5'-O5'-PA-O1A
47	PI	501	GTP	C5'-O5'-PA-O2A
47	PK	501	GTP	C5'-O5'-PA-O3A
47	PK	501	GTP	C5'-O5'-PA-O1A
47	PK	501	GTP	C5'-O5'-PA-O2A
47	PM	501	GTP	C5'-O5'-PA-O1A
47	PM	501	GTP	C5'-O5'-PA-O2A
47	PM	501	GTP	C3'-C4'-C5'-O5'
47	QA	501	GTP	C5'-O5'-PA-O3A
47	QA	501	GTP	C5'-O5'-PA-O2A
47	QC	501	GTP	C5'-O5'-PA-O3A
47	QC	501	GTP	C5'-O5'-PA-O2A
47	QE	501	GTP	C5'-O5'-PA-O1A
47	QE	501	GTP	C5'-O5'-PA-O2A
47	QI	501	GTP	C5'-O5'-PA-O1A
47	QI	501	GTP	C5'-O5'-PA-O2A
47	QI	501	GTP	O4'-C4'-C5'-O5'
47	QI	501	GTP	C3'-C4'-C5'-O5'
47	QK	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
47	QM	501	GTP	C5'-O5'-PA-O1A
47	RA	501	GTP	C5'-O5'-PA-O3A
47	RA	501	GTP	C5'-O5'-PA-O2A
47	RC	501	GTP	C5'-O5'-PA-O1A
47	RC	501	GTP	C5'-O5'-PA-O2A
47	RE	501	GTP	C5'-O5'-PA-O1A
47	RE	501	GTP	C5'-O5'-PA-O2A
47	RG	501	GTP	C5'-O5'-PA-O1A
47	RG	501	GTP	C5'-O5'-PA-O2A
47	RG	501	GTP	C3'-C4'-C5'-O5'
47	RI	501	GTP	C5'-O5'-PA-O3A
47	RI	501	GTP	C5'-O5'-PA-O2A
47	RK	501	GTP	C5'-O5'-PA-O1A
47	RK	501	GTP	C5'-O5'-PA-O2A
47	RM	501	GTP	PB-O3A-PA-O5'
47	RM	501	GTP	C5'-O5'-PA-O3A
47	RM	501	GTP	C5'-O5'-PA-O1A
47	RM	501	GTP	C5'-O5'-PA-O2A
47	RM	501	GTP	C3'-C4'-C5'-O5'
47	SA	501	GTP	C5'-O5'-PA-O3A
47	SA	501	GTP	C5'-O5'-PA-O2A
47	SC	501	GTP	C5'-O5'-PA-O1A
47	SC	501	GTP	C5'-O5'-PA-O2A
47	SE	501	GTP	C5'-O5'-PA-O1A
47	SE	501	GTP	C5'-O5'-PA-O2A
47	SG	501	GTP	C5'-O5'-PA-O3A
47	SG	501	GTP	C5'-O5'-PA-O1A
47	SG	501	GTP	C5'-O5'-PA-O2A
47	SI	501	GTP	C5'-O5'-PA-O3A
47	SI	501	GTP	C5'-O5'-PA-O2A
47	SK	501	GTP	C5'-O5'-PA-O1A
47	SK	501	GTP	C5'-O5'-PA-O2A
47	SM	501	GTP	C5'-O5'-PA-O1A
47	SM	501	GTP	C5'-O5'-PA-O2A
47	SM	501	GTP	C3'-C4'-C5'-O5'
47	TA	501	GTP	C5'-O5'-PA-O3A
47	TA	501	GTP	C5'-O5'-PA-O2A
47	TC	501	GTP	C5'-O5'-PA-O1A
47	TC	501	GTP	C5'-O5'-PA-O2A
47	TE	501	GTP	C5'-O5'-PA-O1A
47	TE	501	GTP	C5'-O5'-PA-O2A
47	TG	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
47	TG	501	GTP	C5'-O5'-PA-O2A
47	TI	501	GTP	C5'-O5'-PA-O3A
47	TI	501	GTP	C5'-O5'-PA-O2A
47	TK	501	GTP	C5'-O5'-PA-O1A
47	TK	501	GTP	C5'-O5'-PA-O2A
47	TM	501	GTP	C5'-O5'-PA-O1A
47	TM	501	GTP	C5'-O5'-PA-O2A
47	UA	501	GTP	C5'-O5'-PA-O3A
47	UA	501	GTP	C5'-O5'-PA-O2A
47	UC	501	GTP	C5'-O5'-PA-O1A
47	UC	501	GTP	C5'-O5'-PA-O2A
47	UE	501	GTP	C5'-O5'-PA-O1A
47	UE	501	GTP	C5'-O5'-PA-O2A
47	UG	501	GTP	PB-O3A-PA-O5'
47	UG	501	GTP	C5'-O5'-PA-O3A
47	UG	501	GTP	C5'-O5'-PA-O1A
47	UG	501	GTP	C5'-O5'-PA-O2A
47	UI	501	GTP	C5'-O5'-PA-O3A
47	UI	501	GTP	C5'-O5'-PA-O2A
47	UK	501	GTP	C5'-O5'-PA-O1A
47	UK	501	GTP	C5'-O5'-PA-O2A
47	UM	501	GTP	C5'-O5'-PA-O1A
47	UM	501	GTP	C5'-O5'-PA-O2A
47	VA	501	GTP	C5'-O5'-PA-O1A
47	VA	501	GTP	C5'-O5'-PA-O2A
47	VA	501	GTP	O4'-C4'-C5'-O5'
47	VA	501	GTP	C3'-C4'-C5'-O5'
47	VC	501	GTP	C5'-O5'-PA-O1A
47	VC	501	GTP	C5'-O5'-PA-O2A
47	VC	501	GTP	C3'-C4'-C5'-O5'
47	VE	501	GTP	PB-O3A-PA-O5'
47	VE	501	GTP	C5'-O5'-PA-O3A
47	VG	501	GTP	C5'-O5'-PA-O1A
47	VG	501	GTP	C5'-O5'-PA-O2A
47	VI	501	GTP	C5'-O5'-PA-O1A
47	VI	501	GTP	C5'-O5'-PA-O2A
47	VK	501	GTP	C5'-O5'-PA-O3A
47	VK	501	GTP	C5'-O5'-PA-O2A
47	VM	501	GTP	C5'-O5'-PA-O3A
47	VM	501	GTP	C5'-O5'-PA-O1A
47	VM	501	GTP	C5'-O5'-PA-O2A
47	WA	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
47	WA	501	GTP	C5'-O5'-PA-O2A
47	WC	501	GTP	C5'-O5'-PA-O1A
47	WC	501	GTP	C5'-O5'-PA-O2A
47	WE	501	GTP	C5'-O5'-PA-O3A
47	WE	501	GTP	C5'-O5'-PA-O1A
47	WE	501	GTP	C5'-O5'-PA-O2A
47	WG	501	GTP	C5'-O5'-PA-O1A
47	WG	501	GTP	C5'-O5'-PA-O2A
47	WI	501	GTP	C5'-O5'-PA-O3A
47	WI	501	GTP	C5'-O5'-PA-O1A
47	WI	501	GTP	C5'-O5'-PA-O2A
47	WK	501	GTP	C5'-O5'-PA-O3A
47	WM	501	GTP	C5'-O5'-PA-O1A
47	WM	501	GTP	C5'-O5'-PA-O2A
47	WM	501	GTP	C3'-C4'-C5'-O5'
47	CE	501	GTP	C5'-O5'-PA-O1A
47	CE	501	GTP	C5'-O5'-PA-O2A
47	DC	501	GTP	C5'-O5'-PA-O3A
47	DC	501	GTP	C5'-O5'-PA-O1A
47	DC	501	GTP	C5'-O5'-PA-O2A
49	BD	501	GDP	C5'-O5'-PA-O1A
49	DF	501	GDP	C5'-O5'-PA-O1A
49	EN	501	GDP	C5'-O5'-PA-O1A
49	JD	501	GDP	C5'-O5'-PA-O1A
49	JF	501	GDP	C5'-O5'-PA-O1A
49	JL	501	GDP	C5'-O5'-PA-O1A
49	LL	501	GDP	C5'-O5'-PA-O1A
49	ML	501	GDP	C5'-O5'-PA-O1A
49	SH	501	GDP	C5'-O5'-PA-O1A
49	TD	501	GDP	C5'-O5'-PA-O1A
49	TF	501	GDP	C5'-O5'-PA-O1A
49	TJ	501	GDP	C5'-O5'-PA-O1A
49	TL	501	GDP	C5'-O5'-PA-O1A
47	AC	501	GTP	O4'-C4'-C5'-O5'
47	AC	501	GTP	C3'-C4'-C5'-O5'
47	BC	502	GTP	C3'-C4'-C5'-O5'
47	BE	501	GTP	O4'-C4'-C5'-O5'
47	BE	501	GTP	C3'-C4'-C5'-O5'
47	BG	501	GTP	C3'-C4'-C5'-O5'
47	BI	501	GTP	C3'-C4'-C5'-O5'
47	BK	501	GTP	C3'-C4'-C5'-O5'
47	BM	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	CG	501	GTP	C3'-C4'-C5'-O5'
47	CM	501	GTP	O4'-C4'-C5'-O5'
47	DA	501	GTP	O4'-C4'-C5'-O5'
47	DA	501	GTP	C3'-C4'-C5'-O5'
47	DI	501	GTP	O4'-C4'-C5'-O5'
47	DM	501	GTP	O4'-C4'-C5'-O5'
47	FC	501	GTP	O4'-C4'-C5'-O5'
47	FC	501	GTP	C3'-C4'-C5'-O5'
47	FE	501	GTP	O4'-C4'-C5'-O5'
47	FE	501	GTP	C3'-C4'-C5'-O5'
47	GA	501	GTP	C3'-C4'-C5'-O5'
47	GE	501	GTP	O4'-C4'-C5'-O5'
47	GG	501	GTP	O4'-C4'-C5'-O5'
47	GI	501	GTP	C3'-C4'-C5'-O5'
47	HA	501	GTP	C3'-C4'-C5'-O5'
47	HE	501	GTP	O4'-C4'-C5'-O5'
47	HI	501	GTP	C3'-C4'-C5'-O5'
47	HK	501	GTP	O4'-C4'-C5'-O5'
47	IC	501	GTP	O4'-C4'-C5'-O5'
47	IE	501	GTP	O4'-C4'-C5'-O5'
47	IG	501	GTP	C3'-C4'-C5'-O5'
47	II	501	GTP	O4'-C4'-C5'-O5'
47	IK	501	GTP	O4'-C4'-C5'-O5'
47	IM	501	GTP	C3'-C4'-C5'-O5'
47	ME	501	GTP	C3'-C4'-C5'-O5'
47	MM	501	GTP	O4'-C4'-C5'-O5'
47	NA	501	GTP	O4'-C4'-C5'-O5'
47	NE	501	GTP	C3'-C4'-C5'-O5'
47	NM	501	GTP	O4'-C4'-C5'-O5'
47	OC	501	GTP	O4'-C4'-C5'-O5'
47	OF	501	GTP	O4'-C4'-C5'-O5'
47	OG	501	GTP	O4'-C4'-C5'-O5'
47	OG	501	GTP	C3'-C4'-C5'-O5'
47	OI	501	GTP	O4'-C4'-C5'-O5'
47	PD	501	GTP	O4'-C4'-C5'-O5'
47	PE	501	GTP	O4'-C4'-C5'-O5'
47	PG	501	GTP	C3'-C4'-C5'-O5'
47	PM	501	GTP	O4'-C4'-C5'-O5'
47	QK	501	GTP	C3'-C4'-C5'-O5'
47	QM	501	GTP	O4'-C4'-C5'-O5'
47	QM	501	GTP	C3'-C4'-C5'-O5'
47	RG	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	RK	501	GTP	C3'-C4'-C5'-O5'
47	RM	501	GTP	O4'-C4'-C5'-O5'
47	SC	501	GTP	C3'-C4'-C5'-O5'
47	SM	501	GTP	O4'-C4'-C5'-O5'
47	TC	501	GTP	C3'-C4'-C5'-O5'
47	TM	501	GTP	O4'-C4'-C5'-O5'
47	TM	501	GTP	C3'-C4'-C5'-O5'
47	UE	501	GTP	C3'-C4'-C5'-O5'
47	UG	501	GTP	C3'-C4'-C5'-O5'
47	UI	501	GTP	C3'-C4'-C5'-O5'
47	VC	501	GTP	O4'-C4'-C5'-O5'
47	VG	501	GTP	C3'-C4'-C5'-O5'
47	VK	501	GTP	C3'-C4'-C5'-O5'
47	WG	501	GTP	C3'-C4'-C5'-O5'
47	WM	501	GTP	O4'-C4'-C5'-O5'
47	CE	501	GTP	O4'-C4'-C5'-O5'
47	CE	501	GTP	C3'-C4'-C5'-O5'
49	MD	501	GDP	C3'-C4'-C5'-O5'
47	AE	501	GTP	O4'-C4'-C5'-O5'
47	AE	501	GTP	C3'-C4'-C5'-O5'
47	AK	501	GTP	O4'-C4'-C5'-O5'
47	AK	501	GTP	C3'-C4'-C5'-O5'
47	BC	502	GTP	O4'-C4'-C5'-O5'
47	BG	501	GTP	O4'-C4'-C5'-O5'
47	BI	501	GTP	O4'-C4'-C5'-O5'
47	BK	501	GTP	O4'-C4'-C5'-O5'
47	CG	501	GTP	O4'-C4'-C5'-O5'
47	EM	501	GTP	O4'-C4'-C5'-O5'
47	FG	501	GTP	O4'-C4'-C5'-O5'
47	FI	501	GTP	O4'-C4'-C5'-O5'
47	FI	501	GTP	C3'-C4'-C5'-O5'
47	GA	501	GTP	O4'-C4'-C5'-O5'
47	GI	501	GTP	O4'-C4'-C5'-O5'
47	HA	501	GTP	O4'-C4'-C5'-O5'
47	HI	501	GTP	O4'-C4'-C5'-O5'
47	IG	501	GTP	O4'-C4'-C5'-O5'
47	IM	501	GTP	O4'-C4'-C5'-O5'
47	LK	501	GTP	O4'-C4'-C5'-O5'
47	LK	501	GTP	C3'-C4'-C5'-O5'
47	MA	501	GTP	O4'-C4'-C5'-O5'
47	MA	501	GTP	C3'-C4'-C5'-O5'
47	ME	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	NC	501	GTP	O4'-C4'-C5'-O5'
47	NC	501	GTP	C3'-C4'-C5'-O5'
47	NE	501	GTP	O4'-C4'-C5'-O5'
47	OA	501	GTP	O4'-C4'-C5'-O5'
47	PG	501	GTP	O4'-C4'-C5'-O5'
47	QE	501	GTP	O4'-C4'-C5'-O5'
47	QE	501	GTP	C3'-C4'-C5'-O5'
47	QK	501	GTP	O4'-C4'-C5'-O5'
47	RE	501	GTP	O4'-C4'-C5'-O5'
47	RE	501	GTP	C3'-C4'-C5'-O5'
47	RK	501	GTP	O4'-C4'-C5'-O5'
47	SC	501	GTP	O4'-C4'-C5'-O5'
47	TC	501	GTP	O4'-C4'-C5'-O5'
47	TG	501	GTP	O4'-C4'-C5'-O5'
47	TG	501	GTP	C3'-C4'-C5'-O5'
47	UE	501	GTP	O4'-C4'-C5'-O5'
47	UG	501	GTP	O4'-C4'-C5'-O5'
47	UI	501	GTP	O4'-C4'-C5'-O5'
47	VG	501	GTP	O4'-C4'-C5'-O5'
47	VK	501	GTP	O4'-C4'-C5'-O5'
47	WC	501	GTP	O4'-C4'-C5'-O5'
47	WC	501	GTP	C3'-C4'-C5'-O5'
47	WE	501	GTP	O4'-C4'-C5'-O5'
47	WE	501	GTP	C3'-C4'-C5'-O5'
47	WG	501	GTP	O4'-C4'-C5'-O5'
47	WI	501	GTP	O4'-C4'-C5'-O5'
47	WI	501	GTP	C3'-C4'-C5'-O5'
47	WK	501	GTP	O4'-C4'-C5'-O5'
47	WK	501	GTP	C3'-C4'-C5'-O5'
49	MD	501	GDP	O4'-C4'-C5'-O5'
47	CA	501	GTP	O4'-C4'-C5'-O5'
47	CA	501	GTP	C3'-C4'-C5'-O5'
47	FG	501	GTP	C3'-C4'-C5'-O5'
47	GK	501	GTP	O4'-C4'-C5'-O5'
47	GK	501	GTP	C3'-C4'-C5'-O5'
47	GM	501	GTP	O4'-C4'-C5'-O5'
47	GM	501	GTP	C3'-C4'-C5'-O5'
47	IA	501	GTP	O4'-C4'-C5'-O5'
47	IA	501	GTP	C3'-C4'-C5'-O5'
47	JK	501	GTP	C3'-C4'-C5'-O5'
47	OA	501	GTP	C3'-C4'-C5'-O5'
47	OK	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	OK	501	GTP	C3'-C4'-C5'-O5'
47	PA	501	GTP	C3'-C4'-C5'-O5'
47	PI	501	GTP	C3'-C4'-C5'-O5'
47	RC	501	GTP	O4'-C4'-C5'-O5'
47	RC	501	GTP	C3'-C4'-C5'-O5'
47	TI	501	GTP	O4'-C4'-C5'-O5'
47	TI	501	GTP	C3'-C4'-C5'-O5'
47	VE	501	GTP	O4'-C4'-C5'-O5'
47	VE	501	GTP	C3'-C4'-C5'-O5'
47	VM	501	GTP	O4'-C4'-C5'-O5'
47	VM	501	GTP	C3'-C4'-C5'-O5'
47	AA	501	GTP	C3'-C4'-C5'-O5'
47	AM	501	GTP	C3'-C4'-C5'-O5'
47	BA	501	GTP	C3'-C4'-C5'-O5'
47	EA	501	GTP	C3'-C4'-C5'-O5'
47	EC	501	GTP	C3'-C4'-C5'-O5'
47	EM	501	GTP	C3'-C4'-C5'-O5'
47	FK	501	GTP	C3'-C4'-C5'-O5'
47	FM	501	GTP	C3'-C4'-C5'-O5'
47	GC	501	GTP	C3'-C4'-C5'-O5'
47	LM	501	GTP	C3'-C4'-C5'-O5'
47	MI	501	GTP	C3'-C4'-C5'-O5'
47	NI	501	GTP	C3'-C4'-C5'-O5'
47	PA	501	GTP	O4'-C4'-C5'-O5'
47	PI	501	GTP	O4'-C4'-C5'-O5'
47	QA	501	GTP	C3'-C4'-C5'-O5'
47	QG	501	GTP	C3'-C4'-C5'-O5'
47	RA	501	GTP	C3'-C4'-C5'-O5'
47	SA	501	GTP	C3'-C4'-C5'-O5'
47	SE	501	GTP	C3'-C4'-C5'-O5'
47	SG	501	GTP	C3'-C4'-C5'-O5'
47	TA	501	GTP	C3'-C4'-C5'-O5'
47	TE	501	GTP	C3'-C4'-C5'-O5'
47	UA	501	GTP	C3'-C4'-C5'-O5'
49	TL	501	GDP	C3'-C4'-C5'-O5'
47	EC	501	GTP	O4'-C4'-C5'-O5'
47	EE	501	GTP	C3'-C4'-C5'-O5'
47	EI	501	GTP	C3'-C4'-C5'-O5'
47	JK	501	GTP	O4'-C4'-C5'-O5'
47	LI	501	GTP	C3'-C4'-C5'-O5'
47	MC	501	GTP	C3'-C4'-C5'-O5'
47	MI	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	RA	501	GTP	O4'-C4'-C5'-O5'
47	SG	501	GTP	O4'-C4'-C5'-O5'
47	SK	501	GTP	C3'-C4'-C5'-O5'
47	UA	501	GTP	O4'-C4'-C5'-O5'
49	LL	501	GDP	C3'-C4'-C5'-O5'
47	AA	501	GTP	O4'-C4'-C5'-O5'
47	EA	501	GTP	O4'-C4'-C5'-O5'
47	EK	501	GTP	C3'-C4'-C5'-O5'
47	HM	501	GTP	C3'-C4'-C5'-O5'
47	JC	501	GTP	C3'-C4'-C5'-O5'
47	JG	501	GTP	C3'-C4'-C5'-O5'
47	JM	501	GTP	C3'-C4'-C5'-O5'
47	LE	501	GTP	C3'-C4'-C5'-O5'
47	LM	501	GTP	O4'-C4'-C5'-O5'
47	TA	501	GTP	O4'-C4'-C5'-O5'
47	AM	501	GTP	PA-O3A-PB-O1B
47	BK	501	GTP	PA-O3A-PB-O1B
47	FA	501	GTP	PA-O3A-PB-O1B
47	FE	501	GTP	PA-O3A-PB-O1B
47	GA	501	GTP	PA-O3A-PB-O1B
47	GK	501	GTP	PA-O3A-PB-O1B
47	GM	501	GTP	PA-O3A-PB-O1B
47	HG	501	GTP	PA-O3A-PB-O1B
47	HG	501	GTP	PB-O3A-PA-O1A
47	JK	501	GTP	PA-O3A-PB-O1B
47	LK	501	GTP	PA-O3A-PB-O1B
47	QA	501	GTP	PA-O3A-PB-O1B
47	SE	501	GTP	PA-O3A-PB-O1B
47	SG	501	GTP	PA-O3A-PB-O1B
47	UI	501	GTP	PA-O3A-PB-O1B
47	VI	501	GTP	PB-O3A-PA-O1A
47	WK	501	GTP	PB-O3A-PA-O1A
47	BA	501	GTP	O4'-C4'-C5'-O5'
47	FM	501	GTP	O4'-C4'-C5'-O5'
47	GC	501	GTP	O4'-C4'-C5'-O5'
47	KA	501	GTP	C3'-C4'-C5'-O5'
47	KM	501	GTP	C3'-C4'-C5'-O5'
47	MG	501	GTP	C3'-C4'-C5'-O5'
47	MK	501	GTP	C3'-C4'-C5'-O5'
47	NI	501	GTP	O4'-C4'-C5'-O5'
47	QA	501	GTP	O4'-C4'-C5'-O5'
47	QG	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	RI	501	GTP	C3'-C4'-C5'-O5'
47	SA	501	GTP	O4'-C4'-C5'-O5'
47	SE	501	GTP	O4'-C4'-C5'-O5'
47	TE	501	GTP	O4'-C4'-C5'-O5'
47	UM	501	GTP	C3'-C4'-C5'-O5'
47	WA	501	GTP	C3'-C4'-C5'-O5'
47	DC	501	GTP	C3'-C4'-C5'-O5'
49	LH	501	GDP	C3'-C4'-C5'-O5'
47	AI	501	GTP	C4'-C5'-O5'-PA
47	CC	501	GTP	C4'-C5'-O5'-PA
47	TE	501	GTP	C4'-C5'-O5'-PA
47	UC	501	GTP	C4'-C5'-O5'-PA
47	VC	501	GTP	C4'-C5'-O5'-PA
47	AM	501	GTP	O4'-C4'-C5'-O5'
47	EI	501	GTP	O4'-C4'-C5'-O5'
47	FK	501	GTP	O4'-C4'-C5'-O5'
49	TL	501	GDP	O4'-C4'-C5'-O5'
47	AG	501	GTP	C4'-C5'-O5'-PA
47	AM	501	GTP	C4'-C5'-O5'-PA
47	BC	502	GTP	C4'-C5'-O5'-PA
47	BG	501	GTP	C4'-C5'-O5'-PA
47	BI	501	GTP	C4'-C5'-O5'-PA
47	BK	501	GTP	C4'-C5'-O5'-PA
47	CK	501	GTP	C4'-C5'-O5'-PA
47	EI	501	GTP	C4'-C5'-O5'-PA
47	FE	501	GTP	C4'-C5'-O5'-PA
47	FI	501	GTP	C4'-C5'-O5'-PA
47	GC	501	GTP	C4'-C5'-O5'-PA
47	GG	501	GTP	C4'-C5'-O5'-PA
47	GI	501	GTP	C4'-C5'-O5'-PA
47	HC	501	GTP	C4'-C5'-O5'-PA
47	HE	501	GTP	C4'-C5'-O5'-PA
47	HI	501	GTP	C4'-C5'-O5'-PA
47	HK	501	GTP	C4'-C5'-O5'-PA
47	IC	501	GTP	C4'-C5'-O5'-PA
47	II	501	GTP	C4'-C5'-O5'-PA
47	IK	501	GTP	C4'-C5'-O5'-PA
47	JC	501	GTP	C4'-C5'-O5'-PA
47	JM	501	GTP	C4'-C5'-O5'-PA
47	LC	501	GTP	C4'-C5'-O5'-PA
47	MC	501	GTP	C4'-C5'-O5'-PA
47	MG	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
47	NI	501	GTP	C4'-C5'-O5'-PA
47	OC	501	GTP	C4'-C5'-O5'-PA
47	PG	501	GTP	C4'-C5'-O5'-PA
47	QC	501	GTP	C4'-C5'-O5'-PA
47	RC	501	GTP	C4'-C5'-O5'-PA
47	RE	501	GTP	C4'-C5'-O5'-PA
47	RG	501	GTP	C4'-C5'-O5'-PA
47	SE	501	GTP	C4'-C5'-O5'-PA
47	SK	501	GTP	C4'-C5'-O5'-PA
47	TK	501	GTP	C4'-C5'-O5'-PA
47	UE	501	GTP	C4'-C5'-O5'-PA
47	UI	501	GTP	C4'-C5'-O5'-PA
47	VG	501	GTP	C4'-C5'-O5'-PA
47	WA	501	GTP	C4'-C5'-O5'-PA
47	AK	501	GTP	PB-O3A-PA-O5'
47	AM	501	GTP	PB-O3A-PA-O5'
47	CA	501	GTP	PB-O3A-PA-O5'
47	DK	501	GTP	PB-O3A-PA-O5'
47	EA	501	GTP	PB-O3A-PA-O5'
47	EM	501	GTP	PB-O3A-PA-O5'
47	GK	501	GTP	PB-O3A-PA-O5'
47	GM	501	GTP	PB-O3A-PA-O5'
47	HG	501	GTP	PB-O3A-PA-O5'
47	HI	501	GTP	PB-O3A-PA-O5'
47	IG	501	GTP	PB-O3A-PA-O5'
47	IM	501	GTP	PB-O3A-PA-O5'
47	JC	501	GTP	PB-O3A-PA-O5'
47	JG	501	GTP	PB-O3A-PA-O5'
47	JK	501	GTP	PB-O3A-PA-O5'
47	KK	501	GTP	PB-O3A-PA-O5'
47	LE	501	GTP	PB-O3A-PA-O5'
47	LG	501	GTP	PB-O3A-PA-O5'
47	MA	501	GTP	PB-O3A-PA-O5'
47	NA	501	GTP	PB-O3A-PA-O5'
47	NC	501	GTP	PB-O3A-PA-O5'
47	NG	501	GTP	PB-O3A-PA-O5'
47	NI	501	GTP	PB-O3A-PA-O5'
47	NK	501	GTP	PB-O3A-PA-O5'
47	NM	501	GTP	PB-O3A-PA-O5'
47	OC	501	GTP	PB-O3A-PA-O5'
47	OF	501	GTP	PB-O3A-PA-O5'
47	OG	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
47	OK	501	GTP	PB-O3A-PA-O5'
47	PD	501	GTP	PB-O3A-PA-O5'
47	QA	501	GTP	PB-O3A-PA-O5'
47	QG	501	GTP	PB-O3A-PA-O5'
47	RA	501	GTP	PB-O3A-PA-O5'
47	TA	501	GTP	PB-O3A-PA-O5'
47	TG	501	GTP	PB-O3A-PA-O5'
47	TI	501	GTP	PB-O3A-PA-O5'
47	UA	501	GTP	PB-O3A-PA-O5'
47	UI	501	GTP	PB-O3A-PA-O5'
47	VC	501	GTP	PB-O3A-PA-O5'
47	VK	501	GTP	PB-O3A-PA-O5'
47	WK	501	GTP	PB-O3A-PA-O5'
47	EE	501	GTP	O4'-C4'-C5'-O5'
47	LI	501	GTP	O4'-C4'-C5'-O5'
47	AK	501	GTP	C4'-C5'-O5'-PA
47	BE	501	GTP	C4'-C5'-O5'-PA
47	DA	501	GTP	C4'-C5'-O5'-PA
47	DM	501	GTP	C4'-C5'-O5'-PA
47	JG	501	GTP	C4'-C5'-O5'-PA
47	JK	501	GTP	C4'-C5'-O5'-PA
47	KA	501	GTP	C4'-C5'-O5'-PA
47	KG	501	GTP	C4'-C5'-O5'-PA
47	LA	501	GTP	C4'-C5'-O5'-PA
47	LE	501	GTP	C4'-C5'-O5'-PA
47	LI	501	GTP	C4'-C5'-O5'-PA
47	LK	501	GTP	C4'-C5'-O5'-PA
47	ME	501	GTP	C4'-C5'-O5'-PA
47	OK	501	GTP	C4'-C5'-O5'-PA
47	QE	501	GTP	C4'-C5'-O5'-PA
47	QK	501	GTP	C4'-C5'-O5'-PA
47	RK	501	GTP	C4'-C5'-O5'-PA
47	SG	501	GTP	C4'-C5'-O5'-PA
47	TI	501	GTP	C4'-C5'-O5'-PA
47	UG	501	GTP	C4'-C5'-O5'-PA
47	UK	501	GTP	C4'-C5'-O5'-PA
47	VE	501	GTP	C4'-C5'-O5'-PA
47	VI	501	GTP	C4'-C5'-O5'-PA
47	AE	501	GTP	C5'-O5'-PA-O3A
47	AI	501	GTP	C5'-O5'-PA-O3A
47	BC	502	GTP	C5'-O5'-PA-O3A
47	BI	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
47	BK	501	GTP	C5'-O5'-PA-O3A
47	FE	501	GTP	C5'-O5'-PA-O3A
47	II	501	GTP	C5'-O5'-PA-O3A
47	JK	501	GTP	C5'-O5'-PA-O3A
47	MG	501	GTP	C5'-O5'-PA-O3A
47	MI	501	GTP	C5'-O5'-PA-O3A
47	QM	501	GTP	C5'-O5'-PA-O3A
47	SK	501	GTP	C5'-O5'-PA-O3A
47	TC	501	GTP	C5'-O5'-PA-O3A
47	TE	501	GTP	C5'-O5'-PA-O3A
47	UC	501	GTP	C5'-O5'-PA-O3A
47	UE	501	GTP	C5'-O5'-PA-O3A
47	VC	501	GTP	C5'-O5'-PA-O3A
47	CE	501	GTP	C5'-O5'-PA-O3A
47	AI	501	GTP	C3'-C4'-C5'-O5'
47	FA	501	GTP	C3'-C4'-C5'-O5'
47	KI	501	GTP	C3'-C4'-C5'-O5'
47	LC	501	GTP	C3'-C4'-C5'-O5'
47	SK	501	GTP	O4'-C4'-C5'-O5'
49	LL	501	GDP	O4'-C4'-C5'-O5'
49	MB	501	GDP	C3'-C4'-C5'-O5'
47	AA	501	GTP	PB-O3A-PA-O1A
47	AI	501	GTP	PA-O3A-PB-O2B
47	BC	502	GTP	PA-O3A-PB-O2B
47	BG	501	GTP	PA-O3A-PB-O2B
47	BM	501	GTP	PA-O3A-PB-O2B
47	CA	501	GTP	PA-O3A-PB-O1B
47	CK	501	GTP	PA-O3A-PB-O2B
47	CM	501	GTP	PA-O3A-PB-O2B
47	DA	501	GTP	PA-O3A-PB-O2B
47	DK	501	GTP	PA-O3A-PB-O2B
47	DM	501	GTP	PA-O3A-PB-O2B
47	EI	501	GTP	PA-O3A-PB-O2B
47	FG	501	GTP	PA-O3A-PB-O2B
47	HA	501	GTP	PA-O3A-PB-O2B
47	HE	501	GTP	PA-O3A-PB-O2B
47	IC	501	GTP	PA-O3A-PB-O2B
47	KA	501	GTP	PA-O3A-PB-O2B
47	KI	501	GTP	PA-O3A-PB-O2B
47	KM	501	GTP	PA-O3A-PB-O2B
47	LI	501	GTP	PA-O3A-PB-O2B
47	LM	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
47	MC	501	GTP	PA-O3A-PB-O2B
47	MG	501	GTP	PA-O3A-PB-O2B
47	MI	501	GTP	PA-O3A-PB-O2B
47	MK	501	GTP	PA-O3A-PB-O2B
47	NA	501	GTP	PA-O3A-PB-O1B
47	PA	501	GTP	PA-O3A-PB-O2B
47	PM	501	GTP	PA-O3A-PB-O2B
47	QI	501	GTP	PA-O3A-PB-O2B
47	RA	501	GTP	PA-O3A-PB-O1B
47	RM	501	GTP	PA-O3A-PB-O2B
47	SC	501	GTP	PA-O3A-PB-O2B
47	SK	501	GTP	PA-O3A-PB-O1B
47	SM	501	GTP	PA-O3A-PB-O2B
47	TE	501	GTP	PA-O3A-PB-O2B
47	TG	501	GTP	PA-O3A-PB-O1B
47	VA	501	GTP	PA-O3A-PB-O2B
47	VC	501	GTP	PA-O3A-PB-O2B
47	VK	501	GTP	PA-O3A-PB-O2B
47	VM	501	GTP	PA-O3A-PB-O1B
47	WK	501	GTP	PA-O3A-PB-O1B
47	AA	501	GTP	C4'-C5'-O5'-PA
47	AC	501	GTP	C4'-C5'-O5'-PA
47	AE	501	GTP	C4'-C5'-O5'-PA
47	BA	501	GTP	C4'-C5'-O5'-PA
47	BM	501	GTP	C4'-C5'-O5'-PA
47	CA	501	GTP	C4'-C5'-O5'-PA
47	CG	501	GTP	C4'-C5'-O5'-PA
47	CM	501	GTP	C4'-C5'-O5'-PA
47	DE	501	GTP	C4'-C5'-O5'-PA
47	DK	501	GTP	C4'-C5'-O5'-PA
47	EA	501	GTP	C4'-C5'-O5'-PA
47	EG	501	GTP	C4'-C5'-O5'-PA
47	EK	501	GTP	C4'-C5'-O5'-PA
47	EM	501	GTP	C4'-C5'-O5'-PA
47	FA	501	GTP	C4'-C5'-O5'-PA
47	FC	501	GTP	C4'-C5'-O5'-PA
47	FK	501	GTP	C4'-C5'-O5'-PA
47	FM	501	GTP	C4'-C5'-O5'-PA
47	GA	501	GTP	C4'-C5'-O5'-PA
47	GE	501	GTP	C4'-C5'-O5'-PA
47	GK	501	GTP	C4'-C5'-O5'-PA
47	HA	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
47	HG	501	GTP	C4'-C5'-O5'-PA
47	HM	501	GTP	C4'-C5'-O5'-PA
47	IA	501	GTP	C4'-C5'-O5'-PA
47	IE	501	GTP	C4'-C5'-O5'-PA
47	IG	501	GTP	C4'-C5'-O5'-PA
47	IM	501	GTP	C4'-C5'-O5'-PA
47	JA	501	GTP	C4'-C5'-O5'-PA
47	JI	501	GTP	C4'-C5'-O5'-PA
47	KC	501	GTP	C4'-C5'-O5'-PA
47	KE	501	GTP	C4'-C5'-O5'-PA
47	KI	501	GTP	C4'-C5'-O5'-PA
47	KK	501	GTP	C4'-C5'-O5'-PA
47	KM	501	GTP	C4'-C5'-O5'-PA
47	LM	501	GTP	C4'-C5'-O5'-PA
47	MA	501	GTP	C4'-C5'-O5'-PA
47	MI	501	GTP	C4'-C5'-O5'-PA
47	MK	501	GTP	C4'-C5'-O5'-PA
47	NA	501	GTP	C4'-C5'-O5'-PA
47	NE	501	GTP	C4'-C5'-O5'-PA
47	NK	501	GTP	C4'-C5'-O5'-PA
47	OG	501	GTP	C4'-C5'-O5'-PA
47	PA	501	GTP	C4'-C5'-O5'-PA
47	PD	501	GTP	C4'-C5'-O5'-PA
47	PE	501	GTP	C4'-C5'-O5'-PA
47	PI	501	GTP	C4'-C5'-O5'-PA
47	PM	501	GTP	C4'-C5'-O5'-PA
47	QA	501	GTP	C4'-C5'-O5'-PA
47	QI	501	GTP	C4'-C5'-O5'-PA
47	RA	501	GTP	C4'-C5'-O5'-PA
47	RI	501	GTP	C4'-C5'-O5'-PA
47	RM	501	GTP	C4'-C5'-O5'-PA
47	SA	501	GTP	C4'-C5'-O5'-PA
47	SC	501	GTP	C4'-C5'-O5'-PA
47	SI	501	GTP	C4'-C5'-O5'-PA
47	SM	501	GTP	C4'-C5'-O5'-PA
47	TA	501	GTP	C4'-C5'-O5'-PA
47	TC	501	GTP	C4'-C5'-O5'-PA
47	TG	501	GTP	C4'-C5'-O5'-PA
47	UA	501	GTP	C4'-C5'-O5'-PA
47	UM	501	GTP	C4'-C5'-O5'-PA
47	VA	501	GTP	C4'-C5'-O5'-PA
47	VK	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
47	VM	501	GTP	C4'-C5'-O5'-PA
47	WC	501	GTP	C4'-C5'-O5'-PA
47	WE	501	GTP	C4'-C5'-O5'-PA
47	WG	501	GTP	C4'-C5'-O5'-PA
47	WI	501	GTP	C4'-C5'-O5'-PA
47	WK	501	GTP	C4'-C5'-O5'-PA
47	WM	501	GTP	C4'-C5'-O5'-PA
47	CE	501	GTP	C4'-C5'-O5'-PA
47	DC	501	GTP	C4'-C5'-O5'-PA
47	AK	501	GTP	C5'-O5'-PA-O2A
47	GA	501	GTP	C5'-O5'-PA-O1A
47	HG	501	GTP	C5'-O5'-PA-O2A
47	JK	501	GTP	C5'-O5'-PA-O2A
47	KA	501	GTP	C5'-O5'-PA-O2A
47	KK	501	GTP	C5'-O5'-PA-O2A
47	LA	501	GTP	C5'-O5'-PA-O2A
47	LE	501	GTP	C5'-O5'-PA-O2A
47	LI	501	GTP	C5'-O5'-PA-O2A
47	LK	501	GTP	C5'-O5'-PA-O2A
47	NE	501	GTP	C5'-O5'-PA-O2A
47	OA	501	GTP	C5'-O5'-PA-O1A
47	QK	501	GTP	C5'-O5'-PA-O2A
47	QM	501	GTP	C5'-O5'-PA-O2A
47	VE	501	GTP	C5'-O5'-PA-O2A
47	VK	501	GTP	C5'-O5'-PA-O1A
47	WK	501	GTP	C5'-O5'-PA-O2A
47	EG	501	GTP	C3'-C4'-C5'-O5'
47	JE	501	GTP	C3'-C4'-C5'-O5'
47	JI	501	GTP	C3'-C4'-C5'-O5'
47	LA	501	GTP	C3'-C4'-C5'-O5'
47	LG	501	GTP	C3'-C4'-C5'-O5'
47	MC	501	GTP	O4'-C4'-C5'-O5'
47	NG	501	GTP	C3'-C4'-C5'-O5'
49	FJ	501	GDP	C3'-C4'-C5'-O5'
49	RJ	501	GDP	C3'-C4'-C5'-O5'
49	TD	501	GDP	C3'-C4'-C5'-O5'
49	WJ	501	GDP	C3'-C4'-C5'-O5'
47	CI	501	GTP	C4'-C5'-O5'-PA
47	DG	501	GTP	C4'-C5'-O5'-PA
47	DI	501	GTP	C4'-C5'-O5'-PA
47	EC	501	GTP	C4'-C5'-O5'-PA
47	EE	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
47	FG	501	GTP	C4'-C5'-O5'-PA
47	GM	501	GTP	C4'-C5'-O5'-PA
47	JE	501	GTP	C4'-C5'-O5'-PA
47	MM	501	GTP	C4'-C5'-O5'-PA
47	NM	501	GTP	C4'-C5'-O5'-PA
47	PK	501	GTP	C4'-C5'-O5'-PA
47	QM	501	GTP	C4'-C5'-O5'-PA
47	TM	501	GTP	C4'-C5'-O5'-PA
47	DE	501	GTP	C3'-C4'-C5'-O5'
47	EK	501	GTP	O4'-C4'-C5'-O5'
47	HM	501	GTP	O4'-C4'-C5'-O5'
47	JA	501	GTP	C3'-C4'-C5'-O5'
47	JC	501	GTP	O4'-C4'-C5'-O5'
47	JG	501	GTP	O4'-C4'-C5'-O5'
47	JM	501	GTP	O4'-C4'-C5'-O5'
47	KE	501	GTP	C3'-C4'-C5'-O5'
47	KG	501	GTP	C3'-C4'-C5'-O5'
47	LE	501	GTP	O4'-C4'-C5'-O5'
47	MK	501	GTP	O4'-C4'-C5'-O5'
47	RI	501	GTP	O4'-C4'-C5'-O5'
47	TK	501	GTP	C3'-C4'-C5'-O5'
47	UM	501	GTP	O4'-C4'-C5'-O5'
49	BN	501	GDP	C3'-C4'-C5'-O5'
47	QG	501	GTP	C4'-C5'-O5'-PA
47	AG	501	GTP	C3'-C4'-C5'-O5'
47	DK	501	GTP	C3'-C4'-C5'-O5'
47	HG	501	GTP	C3'-C4'-C5'-O5'
47	KM	501	GTP	O4'-C4'-C5'-O5'
47	DC	501	GTP	O4'-C4'-C5'-O5'
49	LD	501	GDP	C3'-C4'-C5'-O5'
49	LH	501	GDP	O4'-C4'-C5'-O5'
47	AC	501	GTP	PA-O3A-PB-O2B
47	AE	501	GTP	PA-O3A-PB-O2B
47	AG	501	GTP	PA-O3A-PB-O2B
47	AK	501	GTP	PB-O3A-PA-O1A
47	BE	501	GTP	PA-O3A-PB-O2B
47	BI	501	GTP	PA-O3A-PB-O2B
47	CC	501	GTP	PA-O3A-PB-O2B
47	CG	501	GTP	PA-O3A-PB-O2B
47	DE	501	GTP	PA-O3A-PB-O2B
47	DI	501	GTP	PA-O3A-PB-O2B
47	EA	501	GTP	PA-O3A-PB-O1B

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
47	EC	501	GTP	PA-O3A-PB-O2B
47	EE	501	GTP	PA-O3A-PB-O2B
47	EG	501	GTP	PA-O3A-PB-O2B
47	EK	501	GTP	PA-O3A-PB-O2B
47	EM	501	GTP	PA-O3A-PB-O2B
47	FC	501	GTP	PA-O3A-PB-O2B
47	FI	501	GTP	PA-O3A-PB-O2B
47	FK	501	GTP	PA-O3A-PB-O1B
47	GC	501	GTP	PA-O3A-PB-O2B
47	GE	501	GTP	PA-O3A-PB-O2B
47	GG	501	GTP	PA-O3A-PB-O2B
47	GI	501	GTP	PA-O3A-PB-O2B
47	HC	501	GTP	PA-O3A-PB-O2B
47	HI	501	GTP	PA-O3A-PB-O2B
47	HK	501	GTP	PA-O3A-PB-O2B
47	HM	501	GTP	PA-O3A-PB-O2B
47	IA	501	GTP	PA-O3A-PB-O2B
47	IE	501	GTP	PA-O3A-PB-O2B
47	IG	501	GTP	PA-O3A-PB-O1B
47	II	501	GTP	PA-O3A-PB-O2B
47	IK	501	GTP	PA-O3A-PB-O2B
47	IM	501	GTP	PA-O3A-PB-O1B
47	JA	501	GTP	PA-O3A-PB-O2B
47	JE	501	GTP	PA-O3A-PB-O2B
47	JG	501	GTP	PA-O3A-PB-O2B
47	JM	501	GTP	PA-O3A-PB-O2B
47	KC	501	GTP	PA-O3A-PB-O2B
47	KG	501	GTP	PA-O3A-PB-O2B
47	KK	501	GTP	PA-O3A-PB-O2B
47	LA	501	GTP	PA-O3A-PB-O2B
47	LE	501	GTP	PA-O3A-PB-O2B
47	LK	501	GTP	PB-O3A-PA-O1A
47	MA	501	GTP	PA-O3A-PB-O1B
47	ME	501	GTP	PA-O3A-PB-O2B
47	PD	501	GTP	PA-O3A-PB-O2B
47	PG	501	GTP	PA-O3A-PB-O2B
47	QC	501	GTP	PA-O3A-PB-O2B
47	QK	501	GTP	PB-O3A-PA-O1A
47	RC	501	GTP	PA-O3A-PB-O1B
47	RE	501	GTP	PA-O3A-PB-O2B
47	RG	501	GTP	PA-O3A-PB-O2B
47	RI	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
47	RK	501	GTP	PA-O3A-PB-O2B
47	SA	501	GTP	PA-O3A-PB-O1B
47	SI	501	GTP	PA-O3A-PB-O2B
47	TA	501	GTP	PA-O3A-PB-O1B
47	TC	501	GTP	PA-O3A-PB-O2B
47	TI	501	GTP	PA-O3A-PB-O1B
47	TK	501	GTP	PA-O3A-PB-O2B
47	TM	501	GTP	PA-O3A-PB-O1B
47	UA	501	GTP	PA-O3A-PB-O1B
47	UC	501	GTP	PA-O3A-PB-O2B
47	UE	501	GTP	PA-O3A-PB-O2B
47	UG	501	GTP	PA-O3A-PB-O1B
47	UM	501	GTP	PA-O3A-PB-O2B
47	WC	501	GTP	PB-O3A-PA-O1A
47	WG	501	GTP	PA-O3A-PB-O2B
47	WM	501	GTP	PA-O3A-PB-O2B
47	CE	501	GTP	PA-O3A-PB-O2B
47	LG	501	GTP	C4'-C5'-O5'-PA
47	NC	501	GTP	C4'-C5'-O5'-PA
47	NG	501	GTP	C4'-C5'-O5'-PA
47	OA	501	GTP	C4'-C5'-O5'-PA
47	DG	501	GTP	C3'-C4'-C5'-O5'
47	SI	501	GTP	C3'-C4'-C5'-O5'
47	UK	501	GTP	C3'-C4'-C5'-O5'
47	VI	501	GTP	C3'-C4'-C5'-O5'
49	RF	501	GDP	C3'-C4'-C5'-O5'
47	KA	501	GTP	O4'-C4'-C5'-O5'
47	WA	501	GTP	O4'-C4'-C5'-O5'
49	MJ	501	GDP	C3'-C4'-C5'-O5'
47	OF	501	GTP	C4'-C5'-O5'-PA
47	DG	501	GTP	PB-O3A-PA-O1A
47	EA	501	GTP	PA-O3A-PB-O2B
47	FM	501	GTP	PA-O3A-PB-O1B
47	HK	501	GTP	PA-O3A-PB-O1B
47	IG	501	GTP	PA-O3A-PB-O2B
47	JI	501	GTP	PA-O3A-PB-O2B
47	JK	501	GTP	PA-O3A-PB-O2B
47	JK	501	GTP	PB-O3A-PA-O1A
47	ME	501	GTP	PA-O3A-PB-O1B
47	NA	501	GTP	PB-O3A-PA-O1A
47	PD	501	GTP	PA-O3A-PB-O1B
47	PK	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
47	QM	501	GTP	PA-O3A-PB-O2B
47	RA	501	GTP	PA-O3A-PB-O2B
47	RC	501	GTP	PA-O3A-PB-O2B
47	RI	501	GTP	PA-O3A-PB-O1B
47	SA	501	GTP	PA-O3A-PB-O2B
47	TA	501	GTP	PA-O3A-PB-O2B
47	TC	501	GTP	PA-O3A-PB-O1B
47	UA	501	GTP	PA-O3A-PB-O2B
47	UE	501	GTP	PA-O3A-PB-O1B
47	VM	501	GTP	PA-O3A-PB-O2B
47	WE	501	GTP	PA-O3A-PB-O2B
47	WG	501	GTP	PA-O3A-PB-O1B
47	AI	501	GTP	O4'-C4'-C5'-O5'
47	EG	501	GTP	O4'-C4'-C5'-O5'
47	FA	501	GTP	O4'-C4'-C5'-O5'
47	JE	501	GTP	O4'-C4'-C5'-O5'
47	KC	501	GTP	C3'-C4'-C5'-O5'
47	KI	501	GTP	O4'-C4'-C5'-O5'
47	LA	501	GTP	O4'-C4'-C5'-O5'
47	LC	501	GTP	O4'-C4'-C5'-O5'
47	LG	501	GTP	O4'-C4'-C5'-O5'
47	MG	501	GTP	O4'-C4'-C5'-O5'
47	NG	501	GTP	O4'-C4'-C5'-O5'
49	MB	501	GDP	O4'-C4'-C5'-O5'
47	AA	501	GTP	PB-O3A-PA-O5'
47	LK	501	GTP	PB-O3A-PA-O5'
47	OM	501	GTP	PB-O3A-PA-O5'
47	QK	501	GTP	PB-O3A-PA-O5'
47	OI	501	GTP	C4'-C5'-O5'-PA
47	OM	501	GTP	C4'-C5'-O5'-PA
49	LF	501	GDP	C3'-C4'-C5'-O5'
49	LJ	501	GDP	C3'-C4'-C5'-O5'
49	RJ	501	GDP	O4'-C4'-C5'-O5'
49	SD	501	GDP	C3'-C4'-C5'-O5'
49	TD	501	GDP	O4'-C4'-C5'-O5'
47	NG	501	GTP	PB-O3B-PG-O1G
47	HC	501	GTP	C3'-C4'-C5'-O5'
47	JI	501	GTP	O4'-C4'-C5'-O5'
49	WJ	501	GDP	O4'-C4'-C5'-O5'
47	NK	501	GTP	PB-O3B-PG-O2G
47	OG	501	GTP	PB-O3B-PG-O2G
47	AC	501	GTP	C5'-O5'-PA-O3A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
47	AG	501	GTP	C5'-O5'-PA-O3A
47	BA	501	GTP	C5'-O5'-PA-O3A
47	BE	501	GTP	C5'-O5'-PA-O3A
47	BM	501	GTP	C5'-O5'-PA-O3A
47	CK	501	GTP	C5'-O5'-PA-O3A
47	CM	501	GTP	C5'-O5'-PA-O3A
47	DA	501	GTP	C5'-O5'-PA-O3A
47	DG	501	GTP	C5'-O5'-PA-O3A
47	DI	501	GTP	C5'-O5'-PA-O3A
47	DM	501	GTP	C5'-O5'-PA-O3A
47	EC	501	GTP	C5'-O5'-PA-O3A
47	EE	501	GTP	C5'-O5'-PA-O3A
47	EM	501	GTP	C5'-O5'-PA-O3A
47	FC	501	GTP	C5'-O5'-PA-O3A
47	FG	501	GTP	C5'-O5'-PA-O3A
47	FI	501	GTP	C5'-O5'-PA-O3A
47	GE	501	GTP	C5'-O5'-PA-O3A
47	GG	501	GTP	C5'-O5'-PA-O3A
47	HA	501	GTP	C5'-O5'-PA-O3A
47	HI	501	GTP	C5'-O5'-PA-O3A
47	HK	501	GTP	C5'-O5'-PA-O3A
47	IA	501	GTP	C5'-O5'-PA-O3A
47	IC	501	GTP	C5'-O5'-PA-O3A
47	IE	501	GTP	C5'-O5'-PA-O3A
47	IK	501	GTP	C5'-O5'-PA-O3A
47	KE	501	GTP	C5'-O5'-PA-O3A
47	MC	501	GTP	C5'-O5'-PA-O3A
47	ME	501	GTP	C5'-O5'-PA-O3A
47	MM	501	GTP	C5'-O5'-PA-O3A
47	NK	501	GTP	C5'-O5'-PA-O3A
47	PE	501	GTP	C5'-O5'-PA-O3A
47	PM	501	GTP	C5'-O5'-PA-O3A
47	QE	501	GTP	C5'-O5'-PA-O3A
47	QI	501	GTP	C5'-O5'-PA-O3A
47	RC	501	GTP	C5'-O5'-PA-O3A
47	RE	501	GTP	C5'-O5'-PA-O3A
47	RG	501	GTP	C5'-O5'-PA-O3A
47	RK	501	GTP	C5'-O5'-PA-O3A
47	SC	501	GTP	C5'-O5'-PA-O3A
47	SE	501	GTP	C5'-O5'-PA-O3A
47	SM	501	GTP	C5'-O5'-PA-O3A
47	TK	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
47	TM	501	GTP	C5'-O5'-PA-O3A
47	UK	501	GTP	C5'-O5'-PA-O3A
47	UM	501	GTP	C5'-O5'-PA-O3A
47	VA	501	GTP	C5'-O5'-PA-O3A
47	VG	501	GTP	C5'-O5'-PA-O3A
47	VI	501	GTP	C5'-O5'-PA-O3A
47	WA	501	GTP	C5'-O5'-PA-O3A
47	WC	501	GTP	C5'-O5'-PA-O3A
47	WG	501	GTP	C5'-O5'-PA-O3A
47	WM	501	GTP	C5'-O5'-PA-O3A
49	BD	501	GDP	C5'-O5'-PA-O3A
49	JD	501	GDP	C5'-O5'-PA-O3A
49	TD	501	GDP	C5'-O5'-PA-O3A
49	TL	501	GDP	C5'-O5'-PA-O3A
47	DE	501	GTP	O4'-C4'-C5'-O5'
47	KE	501	GTP	O4'-C4'-C5'-O5'
47	KG	501	GTP	O4'-C4'-C5'-O5'
47	TK	501	GTP	O4'-C4'-C5'-O5'
49	DD	501	GDP	C3'-C4'-C5'-O5'
49	FJ	501	GDP	O4'-C4'-C5'-O5'
49	SL	501	GDP	C3'-C4'-C5'-O5'
47	AC	501	GTP	PA-O3A-PB-O1B
47	AE	501	GTP	PA-O3A-PB-O1B
47	AG	501	GTP	PA-O3A-PB-O1B
47	AM	501	GTP	PA-O3A-PB-O2B
47	BA	501	GTP	PA-O3A-PB-O2B
47	BC	502	GTP	PA-O3A-PB-O1B
47	BE	501	GTP	PA-O3A-PB-O1B
47	BG	501	GTP	PA-O3A-PB-O1B
47	BI	501	GTP	PA-O3A-PB-O1B
47	BK	501	GTP	PA-O3A-PB-O2B
47	CA	501	GTP	PA-O3A-PB-O2B
47	CC	501	GTP	PA-O3A-PB-O1B
47	CG	501	GTP	PA-O3A-PB-O1B
47	CI	501	GTP	PA-O3A-PB-O2B
47	DA	501	GTP	PA-O3A-PB-O1B
47	DE	501	GTP	PA-O3A-PB-O1B
47	DI	501	GTP	PA-O3A-PB-O1B
47	DK	501	GTP	PA-O3A-PB-O1B
47	FA	501	GTP	PA-O3A-PB-O2B
47	FC	501	GTP	PA-O3A-PB-O1B
47	FE	501	GTP	PA-O3A-PB-O2B

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
47	FG	501	GTP	PA-O3A-PB-O1B
47	FK	501	GTP	PA-O3A-PB-O2B
47	FM	501	GTP	PA-O3A-PB-O2B
47	GA	501	GTP	PA-O3A-PB-O2B
47	GG	501	GTP	PA-O3A-PB-O1B
47	GK	501	GTP	PA-O3A-PB-O2B
47	GM	501	GTP	PA-O3A-PB-O2B
47	HG	501	GTP	PA-O3A-PB-O2B
47	HM	501	GTP	PA-O3A-PB-O1B
47	IC	501	GTP	PA-O3A-PB-O1B
47	IE	501	GTP	PA-O3A-PB-O1B
47	II	501	GTP	PA-O3A-PB-O1B
47	IM	501	GTP	PA-O3A-PB-O2B
47	JC	501	GTP	PB-O3A-PA-O1A
47	JI	501	GTP	PA-O3A-PB-O1B
47	KA	501	GTP	PA-O3A-PB-O1B
47	KK	501	GTP	PA-O3A-PB-O1B
47	LA	501	GTP	PA-O3A-PB-O1B
47	LC	501	GTP	PB-O3A-PA-O2A
47	LG	501	GTP	PB-O3A-PA-O1A
47	LI	501	GTP	PA-O3A-PB-O1B
47	LK	501	GTP	PA-O3A-PB-O2B
47	LM	501	GTP	PA-O3A-PB-O1B
47	MA	501	GTP	PA-O3A-PB-O2B
47	MC	501	GTP	PA-O3A-PB-O1B
47	NE	501	GTP	PB-O3A-PA-O1A
47	OK	501	GTP	PB-O3A-PA-O2A
47	PA	501	GTP	PA-O3A-PB-O1B
47	PK	501	GTP	PA-O3A-PB-O1B
47	QA	501	GTP	PA-O3A-PB-O2B
47	QC	501	GTP	PA-O3A-PB-O1B
47	QI	501	GTP	PA-O3A-PB-O1B
47	QK	501	GTP	PA-O3A-PB-O1B
47	QK	501	GTP	PA-O3A-PB-O2B
47	QM	501	GTP	PA-O3A-PB-O1B
47	RE	501	GTP	PA-O3A-PB-O1B
47	RG	501	GTP	PA-O3A-PB-O1B
47	RM	501	GTP	PA-O3A-PB-O1B
47	SE	501	GTP	PA-O3A-PB-O2B
47	SG	501	GTP	PA-O3A-PB-O2B
47	SK	501	GTP	PA-O3A-PB-O2B
47	SM	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
47	TE	501	GTP	PA-O3A-PB-O1B
47	TK	501	GTP	PA-O3A-PB-O1B
47	TM	501	GTP	PA-O3A-PB-O2B
47	UC	501	GTP	PA-O3A-PB-O1B
47	UI	501	GTP	PA-O3A-PB-O2B
47	VC	501	GTP	PA-O3A-PB-O1B
47	VE	501	GTP	PB-O3A-PA-O1A
47	VG	501	GTP	PA-O3A-PB-O1B
47	VG	501	GTP	PA-O3A-PB-O2B
47	VK	501	GTP	PA-O3A-PB-O1B
47	WE	501	GTP	PA-O3A-PB-O1B
47	WM	501	GTP	PA-O3A-PB-O1B
47	CE	501	GTP	PA-O3A-PB-O1B
47	DC	501	GTP	PA-O3A-PB-O1B
47	DC	501	GTP	PA-O3A-PB-O2B
47	CA	501	GTP	C5'-O5'-PA-O1A
47	DK	501	GTP	C5'-O5'-PA-O2A
47	NC	501	GTP	C5'-O5'-PA-O1A
47	OC	501	GTP	C5'-O5'-PA-O1A
47	OG	501	GTP	C5'-O5'-PA-O1A
49	AB	501	GDP	C5'-O5'-PA-O1A
49	AF	501	GDP	C5'-O5'-PA-O1A
49	AJ	501	GDP	C5'-O5'-PA-O1A
49	AL	501	GDP	C5'-O5'-PA-O1A
49	AN	501	GDP	C5'-O5'-PA-O1A
49	BF	501	GDP	C5'-O5'-PA-O1A
49	BN	501	GDP	C5'-O5'-PA-O1A
49	CH	501	GDP	C5'-O5'-PA-O1A
49	CJ	501	GDP	C5'-O5'-PA-O1A
49	EH	501	GDP	C5'-O5'-PA-O1A
49	EJ	501	GDP	C5'-O5'-PA-O1A
49	FD	501	GDP	C5'-O5'-PA-O1A
49	FH	501	GDP	C5'-O5'-PA-O1A
49	FJ	501	GDP	C5'-O5'-PA-O1A
49	FL	502	GDP	C5'-O5'-PA-O1A
49	FN	501	GDP	C5'-O5'-PA-O1A
49	GD	501	GDP	C5'-O5'-PA-O1A
49	GF	501	GDP	C5'-O5'-PA-O1A
49	GJ	501	GDP	C5'-O5'-PA-O1A
49	GL	502	GDP	C5'-O5'-PA-O1A
49	HD	501	GDP	C5'-O5'-PA-O1A
49	HF	501	GDP	C5'-O5'-PA-O1A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
49	HJ	501	GDP	C5'-O5'-PA-O1A
49	HL	501	GDP	C5'-O5'-PA-O1A
49	IB	501	GDP	C5'-O5'-PA-O1A
49	ID	501	GDP	C5'-O5'-PA-O1A
49	IN	501	GDP	C5'-O5'-PA-O1A
49	JB	501	GDP	C5'-O5'-PA-O1A
49	JH	501	GDP	C5'-O5'-PA-O1A
49	JJ	501	GDP	C5'-O5'-PA-O1A
49	KL	501	GDP	C5'-O5'-PA-O1A
49	LD	501	GDP	C5'-O5'-PA-O1A
49	LF	501	GDP	C5'-O5'-PA-O1A
49	LH	501	GDP	C5'-O5'-PA-O1A
49	LJ	501	GDP	C5'-O5'-PA-O1A
49	MB	501	GDP	C5'-O5'-PA-O1A
49	MD	501	GDP	C5'-O5'-PA-O1A
49	MH	501	GDP	C5'-O5'-PA-O1A
49	NB	501	GDP	C5'-O5'-PA-O1A
49	ND	502	GDP	C5'-O5'-PA-O1A
49	NF	501	GDP	C5'-O5'-PA-O1A
49	NJ	501	GDP	C5'-O5'-PA-O1A
49	NN	501	GDP	C5'-O5'-PA-O1A
49	OH	501	GDP	C5'-O5'-PA-O1A
49	QB	501	GDP	C5'-O5'-PA-O1A
49	RJ	501	GDP	C5'-O5'-PA-O1A
49	SB	501	GDP	C5'-O5'-PA-O1A
49	SD	501	GDP	C5'-O5'-PA-O1A
49	SF	501	GDP	C5'-O5'-PA-O1A
49	SL	501	GDP	C5'-O5'-PA-O1A
49	TB	501	GDP	C5'-O5'-PA-O1A
49	TH	501	GDP	C5'-O5'-PA-O1A
49	UB	501	GDP	C5'-O5'-PA-O1A
49	UD	501	GDP	C5'-O5'-PA-O1A
49	UF	501	GDP	C5'-O5'-PA-O1A
49	UN	501	GDP	C5'-O5'-PA-O1A
49	VD	501	GDP	C5'-O5'-PA-O1A
49	VF	501	GDP	C5'-O5'-PA-O1A
49	VH	501	GDP	C5'-O5'-PA-O1A
49	VN	501	GDP	C5'-O5'-PA-O1A
49	WH	501	GDP	C5'-O5'-PA-O1A
49	WL	501	GDP	C5'-O5'-PA-O1A
49	WN	501	GDP	C5'-O5'-PA-O1A
47	DK	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	JA	501	GTP	O4'-C4'-C5'-O5'
47	OG	501	GTP	PB-O3B-PG-O1G
49	BN	501	GDP	O4'-C4'-C5'-O5'

There are no ring outliers.

250 monomers are involved in 484 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
47	RK	501	GTP	3	0
49	LL	501	GDP	1	0
47	QG	501	GTP	5	0
49	DL	501	GDP	1	0
49	QD	501	GDP	1	0
49	EN	501	GDP	5	0
47	DK	501	GTP	3	0
49	QB	501	GDP	1	0
47	TC	501	GTP	3	0
47	PD	501	GTP	3	0
49	BD	501	GDP	2	0
47	EK	501	GTP	3	0
47	VG	501	GTP	4	0
47	UI	501	GTP	3	0
49	QH	501	GDP	1	0
49	DF	501	GDP	1	0
47	TM	501	GTP	3	0
47	BG	501	GTP	1	0
47	AK	501	GTP	1	0
47	TG	501	GTP	1	0
49	OF	502	GDP	3	0
49	JN	501	GDP	1	0
47	MC	501	GTP	1	0
47	GI	501	GTP	1	0
49	SJ	501	GDP	1	0
49	UJ	501	GDP	3	0
47	PG	501	GTP	3	0
49	QN	501	GDP	1	0
47	OC	501	GTP	1	0
47	GM	501	GTP	2	0
49	JJ	501	GDP	2	0
47	KI	501	GTP	1	0
49	DJ	501	GDP	2	0
49	UH	501	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
49	OL	501	GDP	1	0
49	QF	501	GDP	6	0
47	SM	501	GTP	1	0
47	SC	501	GTP	2	0
47	NM	501	GTP	2	0
49	IN	501	GDP	3	0
49	VH	501	GDP	2	0
49	VB	501	GDP	1	0
47	BA	501	GTP	1	0
49	OJ	501	GDP	2	0
47	UC	501	GTP	1	0
47	VC	501	GTP	3	0
49	NB	501	GDP	1	0
49	FJ	501	GDP	1	0
49	IJ	501	GDP	3	0
47	DG	501	GTP	3	0
49	PB	501	GDP	1	0
47	VK	501	GTP	1	0
47	RI	501	GTP	1	0
47	FK	501	GTP	1	0
47	BK	501	GTP	1	0
49	CD	501	GDP	2	0
47	OM	501	GTP	1	0
47	VA	501	GTP	3	0
47	WE	501	GTP	1	0
47	FM	501	GTP	2	0
47	CG	501	GTP	2	0
47	DM	501	GTP	2	0
47	FE	501	GTP	1	0
47	OK	501	GTP	1	0
47	HM	501	GTP	1	0
47	ME	501	GTP	1	0
47	WG	501	GTP	1	0
49	FN	501	GDP	1	0
47	DC	501	GTP	3	0
47	QE	501	GTP	4	0
47	VM	501	GTP	2	0
47	UE	501	GTP	3	0
47	UM	501	GTP	1	0
47	OG	501	GTP	4	0
49	PN	502	GDP	3	0
47	QK	501	GTP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
49	QJ	501	GDP	3	0
47	UA	501	GTP	2	0
47	BI	501	GTP	3	0
49	EF	501	GDP	1	0
47	NK	501	GTP	1	0
47	SI	501	GTP	1	0
49	VN	501	GDP	2	0
47	GE	501	GTP	1	0
49	RJ	501	GDP	3	0
49	IH	501	GDP	3	0
47	KC	501	GTP	2	0
47	AG	501	GTP	1	0
47	MM	501	GTP	4	0
49	RB	501	GDP	1	0
49	GN	502	GDP	1	0
49	IF	501	GDP	1	0
49	AH	501	GDP	2	0
47	GG	501	GTP	1	0
49	MF	501	GDP	2	0
47	BE	501	GTP	4	0
47	NI	501	GTP	1	0
49	RH	501	GDP	1	0
47	JC	501	GTP	2	0
49	SF	501	GDP	1	0
49	UF	501	GDP	5	0
49	TH	501	GDP	1	0
49	RN	501	GDP	1	0
49	HN	501	GDP	1	0
47	LI	501	GTP	1	0
47	KA	501	GTP	2	0
47	CI	501	GTP	2	0
47	QA	501	GTP	2	0
49	UD	501	GDP	2	0
49	HF	501	GDP	2	0
49	MH	501	GDP	1	0
49	TD	501	GDP	1	0
49	LN	501	GDP	2	0
47	SK	501	GTP	4	0
47	WI	501	GTP	3	0
49	HH	501	GDP	2	0
47	IM	501	GTP	3	0
47	EM	501	GTP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
47	KG	501	GTP	2	0
49	PJ	501	GDP	1	0
47	JK	501	GTP	2	0
47	RG	501	GTP	2	0
49	TF	501	GDP	1	0
49	MJ	501	GDP	3	0
49	EL	501	GDP	3	0
47	JI	501	GTP	1	0
49	GL	502	GDP	3	0
47	KM	501	GTP	3	0
47	FC	501	GTP	2	0
47	CE	501	GTP	1	0
49	BL	501	GDP	2	0
49	SN	501	GDP	1	0
49	TN	501	GDP	1	0
47	QM	501	GTP	2	0
49	GD	501	GDP	2	0
47	CA	501	GTP	2	0
49	HD	501	GDP	1	0
49	WL	501	GDP	2	0
47	QC	501	GTP	3	0
49	WD	501	GDP	3	0
47	BM	501	GTP	1	0
49	HB	501	GDP	1	0
47	OF	501	GTP	4	0
49	BF	501	GDP	4	0
47	GK	501	GTP	1	0
49	BJ	501	GDP	2	0
47	TE	501	GTP	1	0
47	IE	501	GTP	3	0
47	VE	501	GTP	4	0
49	OB	501	GDP	2	0
49	ED	501	GDP	1	0
47	SE	501	GTP	2	0
47	DI	501	GTP	4	0
49	NJ	501	GDP	1	0
49	VJ	501	GDP	4	0
47	IG	501	GTP	2	0
47	RM	501	GTP	2	0
49	HJ	501	GDP	2	0
47	EC	501	GTP	3	0
49	FF	501	GDP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
49	KH	501	GDP	1	0
47	EG	501	GTP	2	0
47	TI	501	GTP	1	0
47	CK	501	GTP	1	0
49	HL	501	GDP	1	0
47	DA	501	GTP	2	0
49	IL	501	GDP	4	0
49	CB	501	GDP	2	0
49	AF	501	GDP	1	0
49	GF	501	GDP	1	0
47	LM	501	GTP	1	0
47	EE	501	GTP	1	0
49	CJ	501	GDP	4	0
49	LJ	501	GDP	2	0
47	AC	501	GTP	1	0
47	EI	501	GTP	1	0
47	WM	501	GTP	1	0
49	PH	501	GDP	2	0
47	WA	501	GTP	3	0
49	DH	501	GDP	2	0
47	GC	501	GTP	1	0
47	AA	501	GTP	3	0
47	OI	501	GTP	3	0
47	HE	501	GTP	2	0
47	WK	501	GTP	3	0
49	EH	501	GDP	4	0
47	JG	501	GTP	2	0
47	HG	501	GTP	1	0
47	CC	501	GTP	1	0
47	AI	501	GTP	1	0
49	CF	501	GDP	6	0
49	SB	501	GDP	1	0
47	CM	501	GTP	1	0
49	UL	501	GDP	2	0
47	LC	501	GTP	3	0
47	PE	501	GTP	1	0
49	FH	501	GDP	4	0
49	VF	501	GDP	2	0
47	UG	501	GTP	1	0
47	LG	501	GTP	2	0
47	AM	501	GTP	2	0
47	PI	501	GTP	4	0

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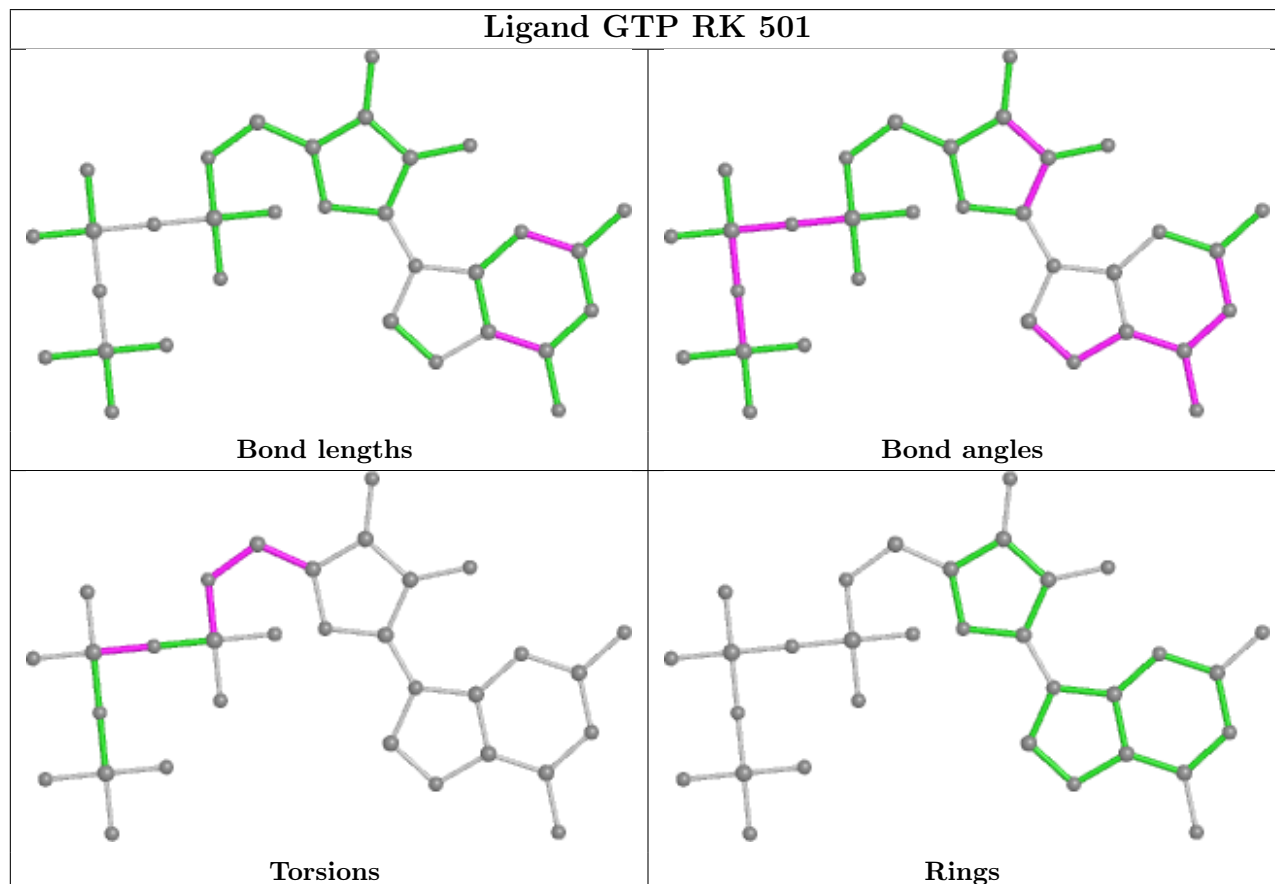
<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Clashes</b>	<b>Symm-Clashes</b>
47	NG	501	GTP	1	0
49	UN	501	GDP	1	0
49	VD	501	GDP	1	0
49	OD	501	GDP	2	0
49	AJ	501	GDP	2	0
49	QL	501	GDP	1	0
49	CH	501	GDP	1	0
49	GJ	501	GDP	1	0
49	AL	501	GDP	1	0
49	VL	501	GDP	3	0
47	DE	501	GTP	2	0
49	WF	501	GDP	1	0
47	QI	501	GTP	3	0
47	JA	501	GTP	1	0
47	EA	501	GTP	2	0
47	PM	501	GTP	2	0
47	NA	501	GTP	3	0
49	JH	501	GDP	1	0
47	NE	501	GTP	1	0
47	HA	501	GTP	1	0
47	LK	501	GTP	2	0
49	IB	501	GDP	1	0
47	PA	501	GTP	2	0
47	RA	501	GTP	2	0
49	WH	501	GDP	2	0
47	TK	501	GTP	2	0
49	DN	501	GDP	1	0
49	AN	501	GDP	1	0
47	KE	501	GTP	2	0
47	RE	501	GTP	3	0
49	TJ	501	GDP	1	0
49	RL	501	GDP	1	0
49	JD	501	GDP	1	0
47	IK	501	GTP	3	0
49	JL	501	GDP	1	0
47	RC	501	GTP	3	0
47	FA	501	GTP	3	0
49	TL	501	GDP	1	0
49	JF	501	GDP	1	0
49	BH	501	GDP	2	0
47	TA	501	GTP	2	0
49	ON	501	GDP	2	0

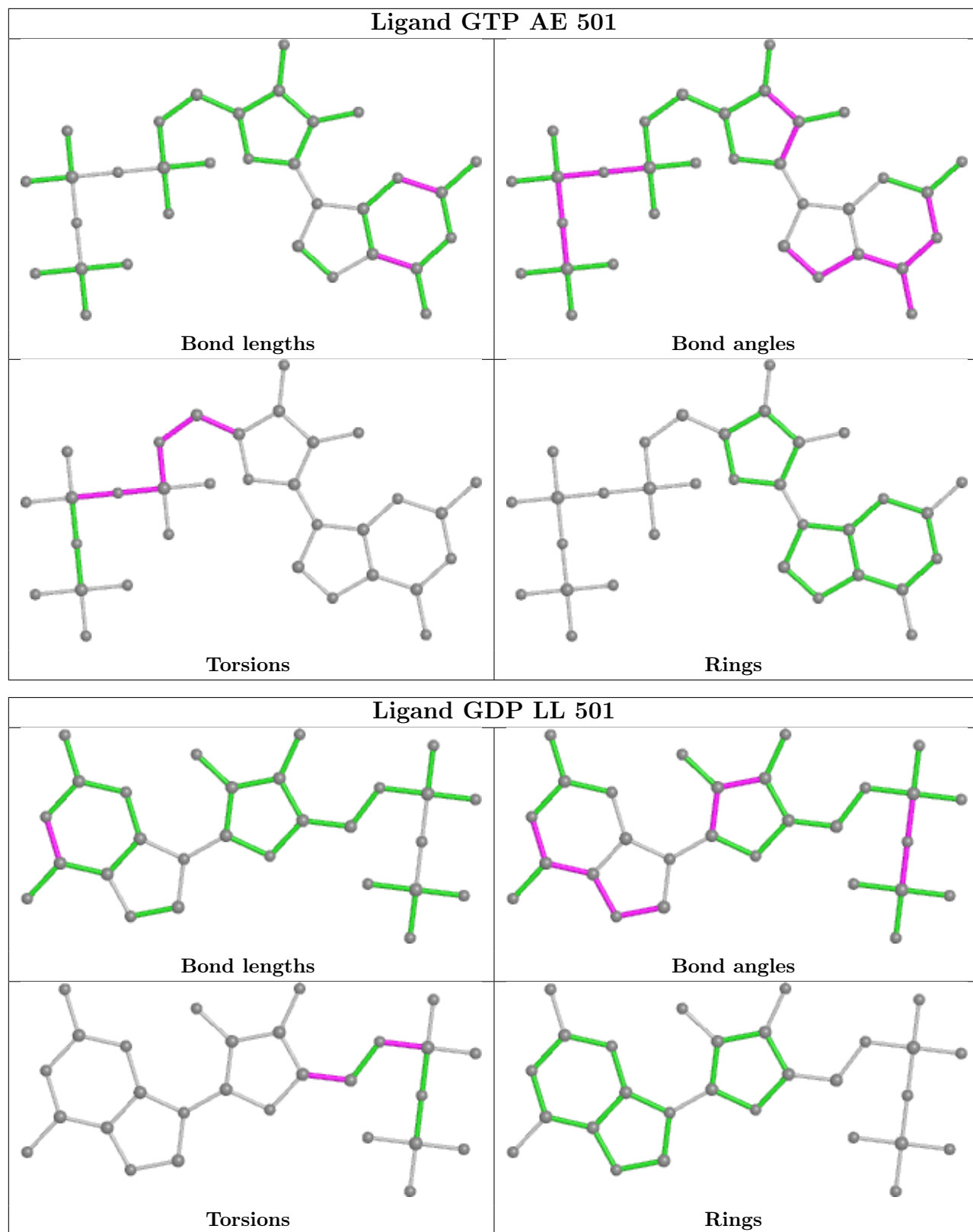
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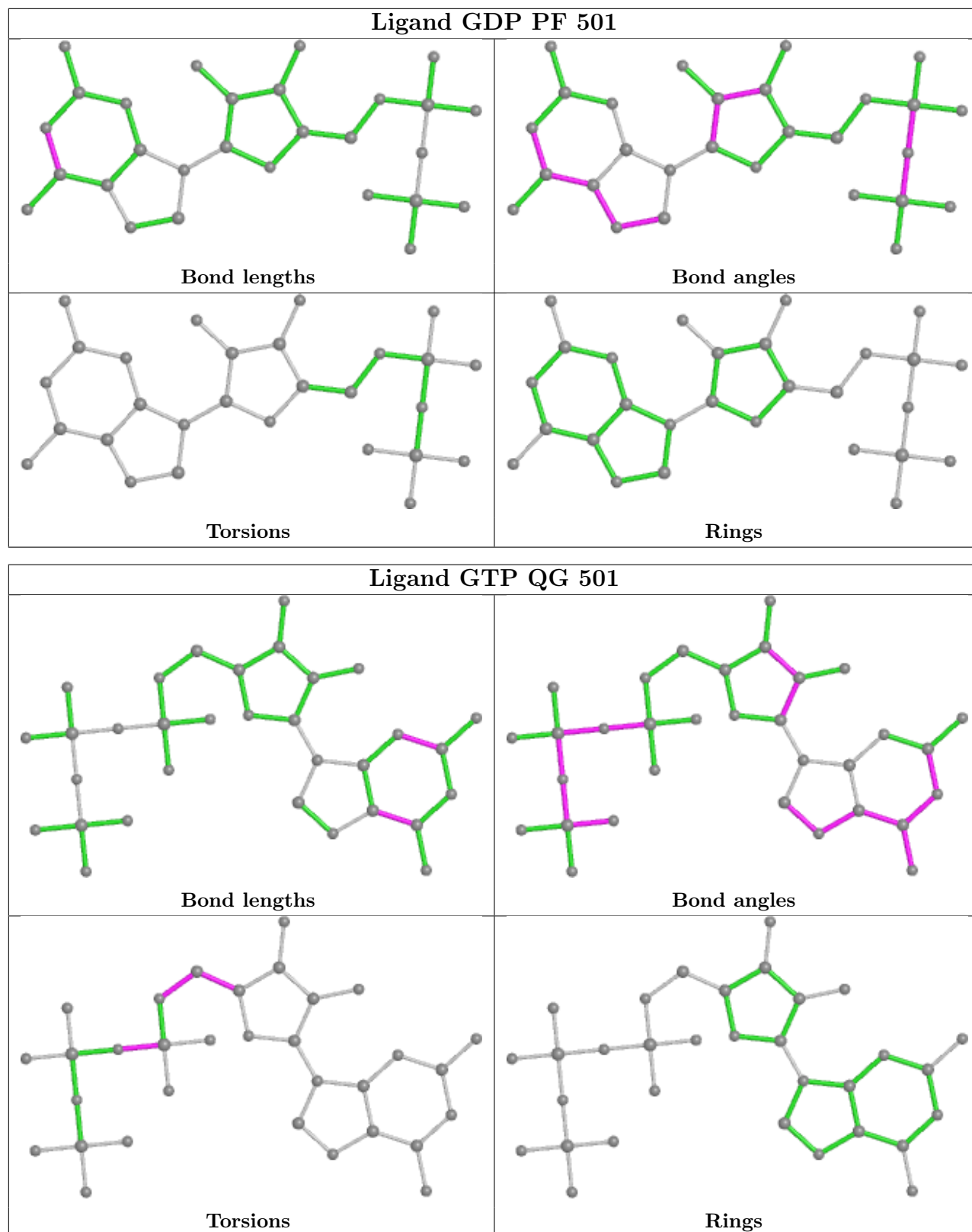
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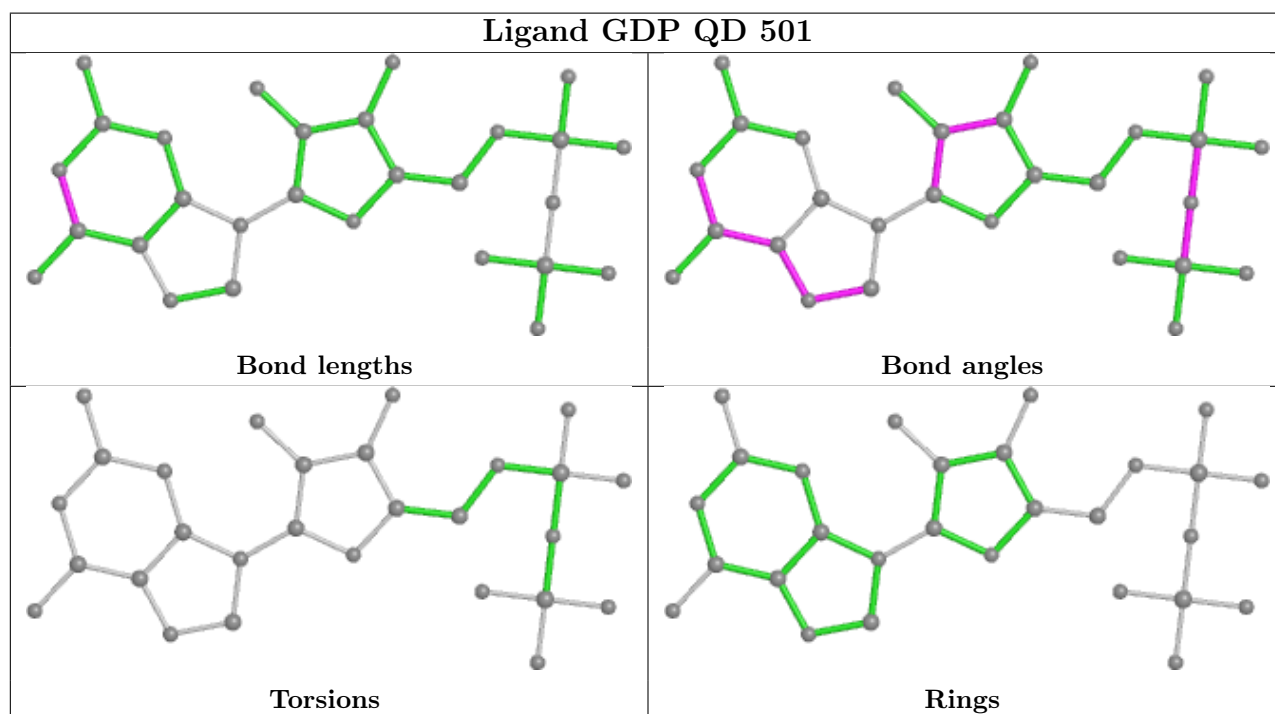
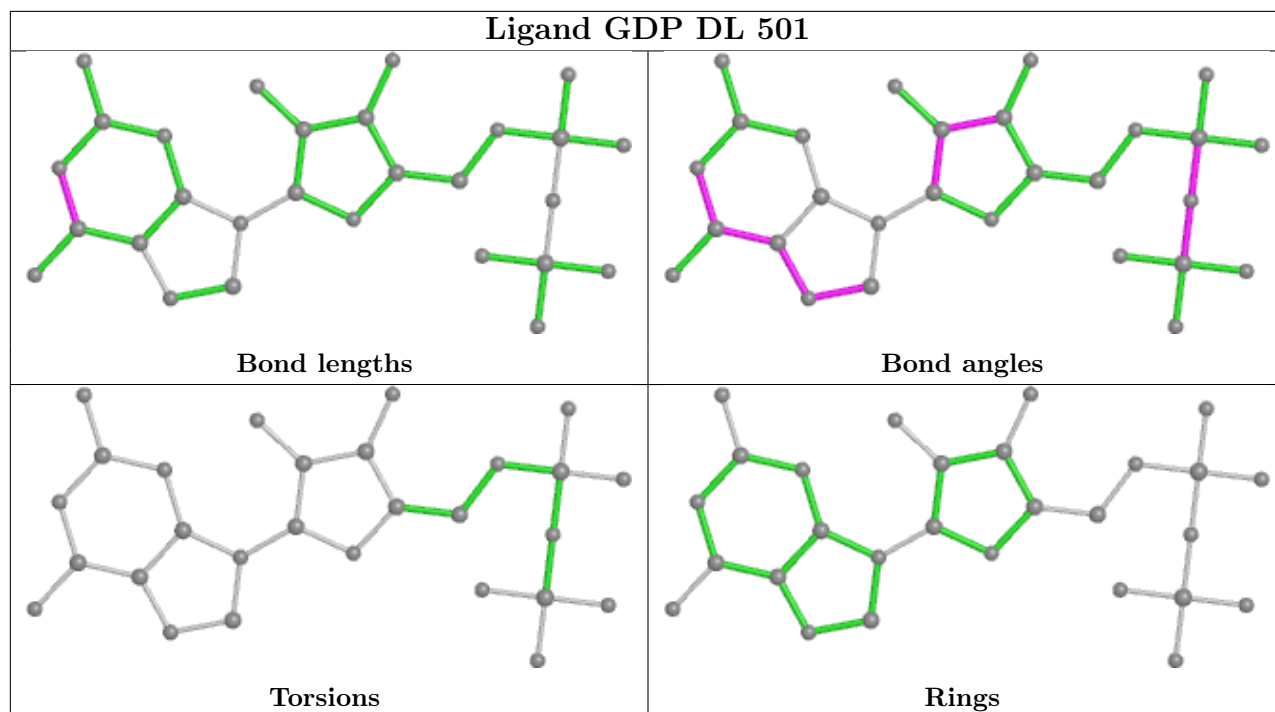
Mol	Chain	Res	Type	Clashes	Symm-Clashes
47	LA	501	GTP	1	0
47	PK	501	GTP	4	0
47	SA	501	GTP	2	0
49	DD	501	GDP	2	0
49	FL	502	GDP	2	0
49	KF	501	GDP	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

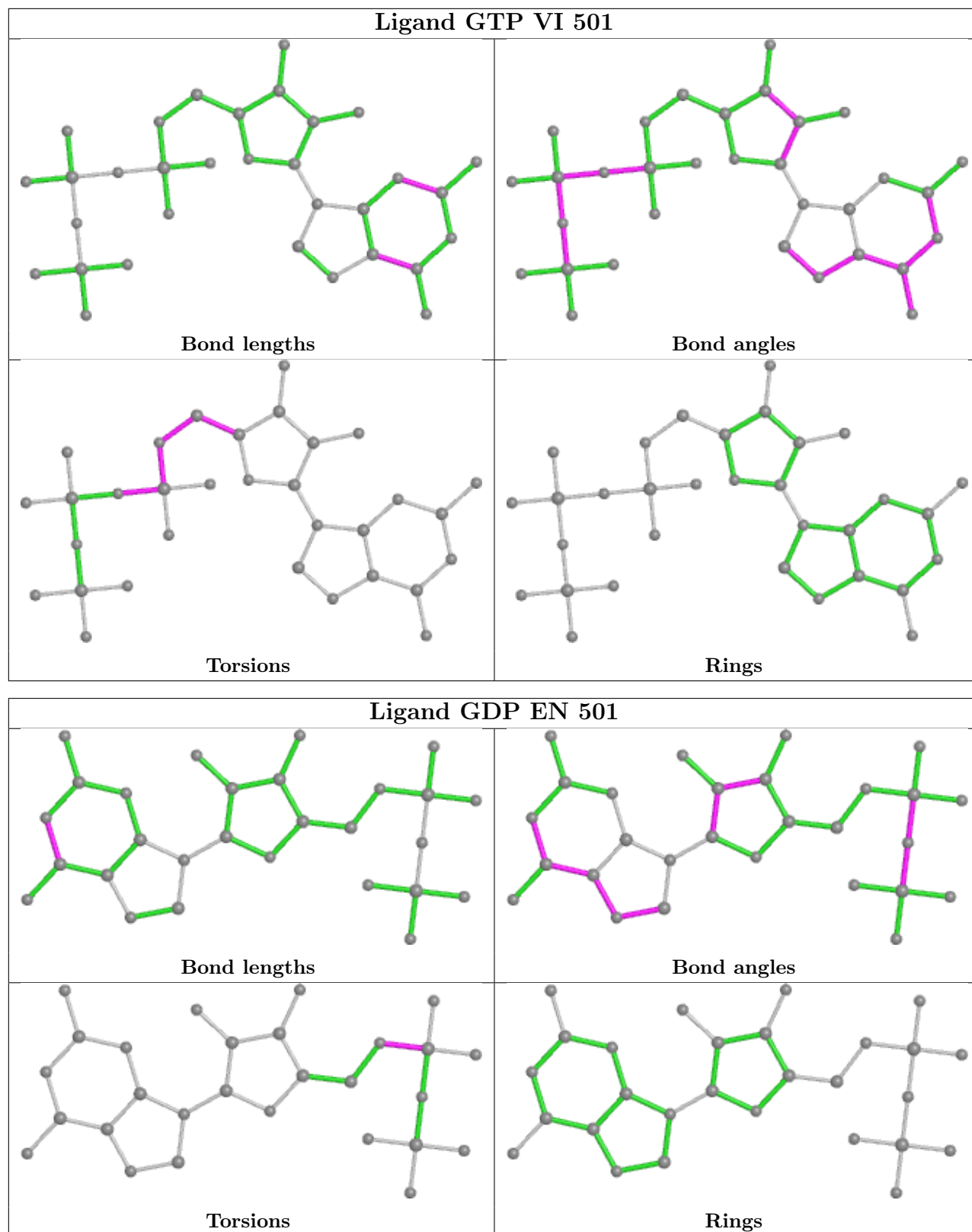


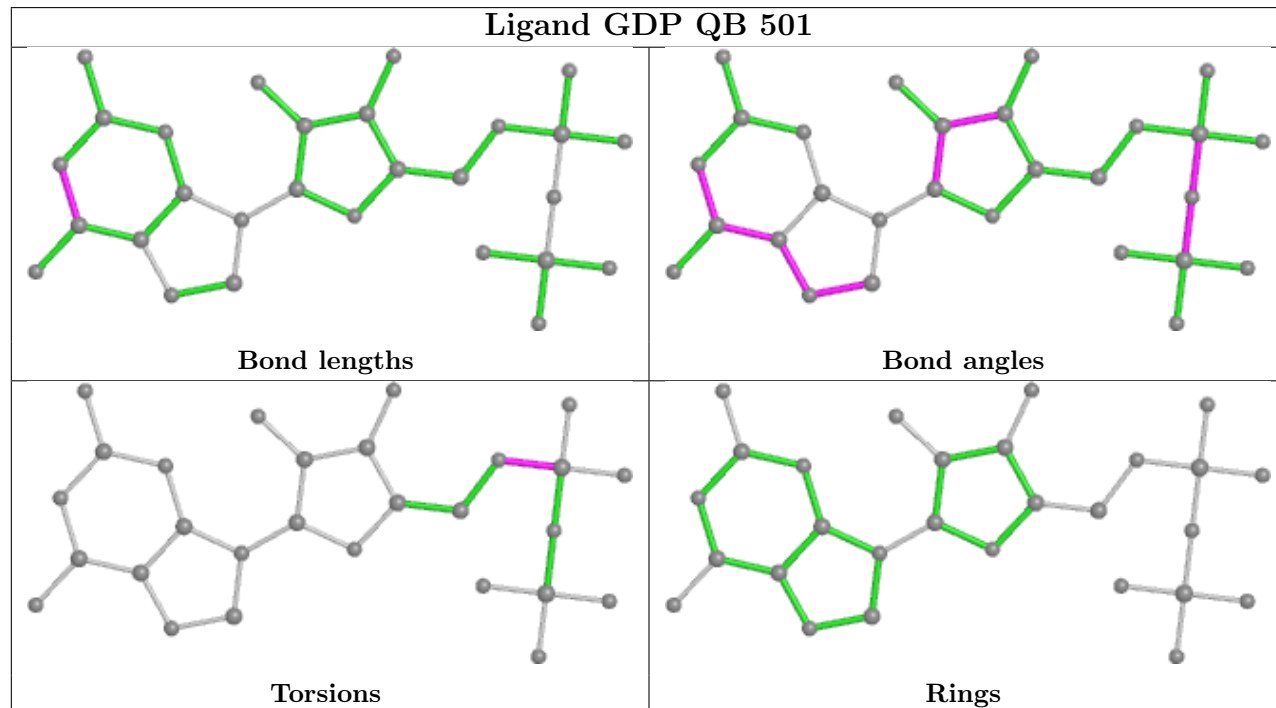
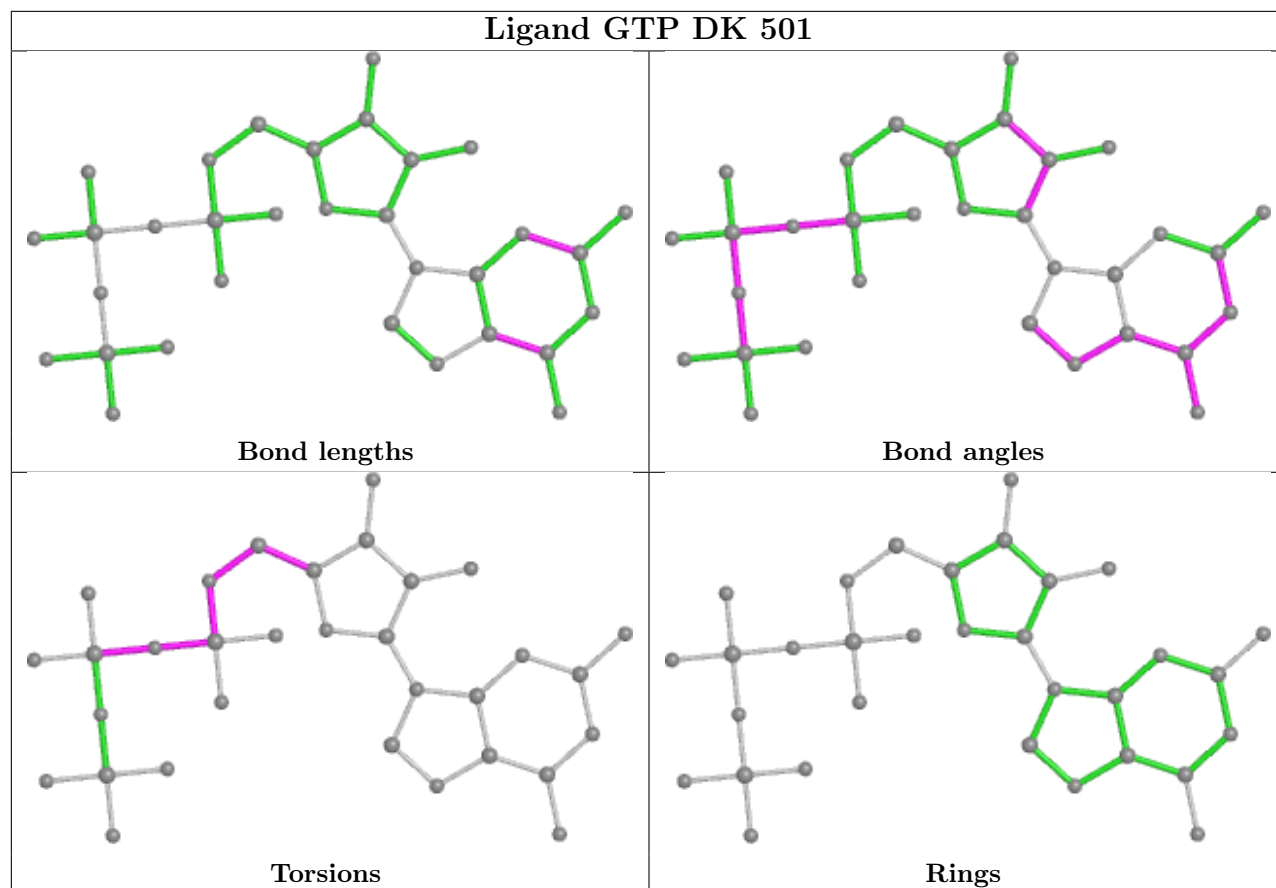


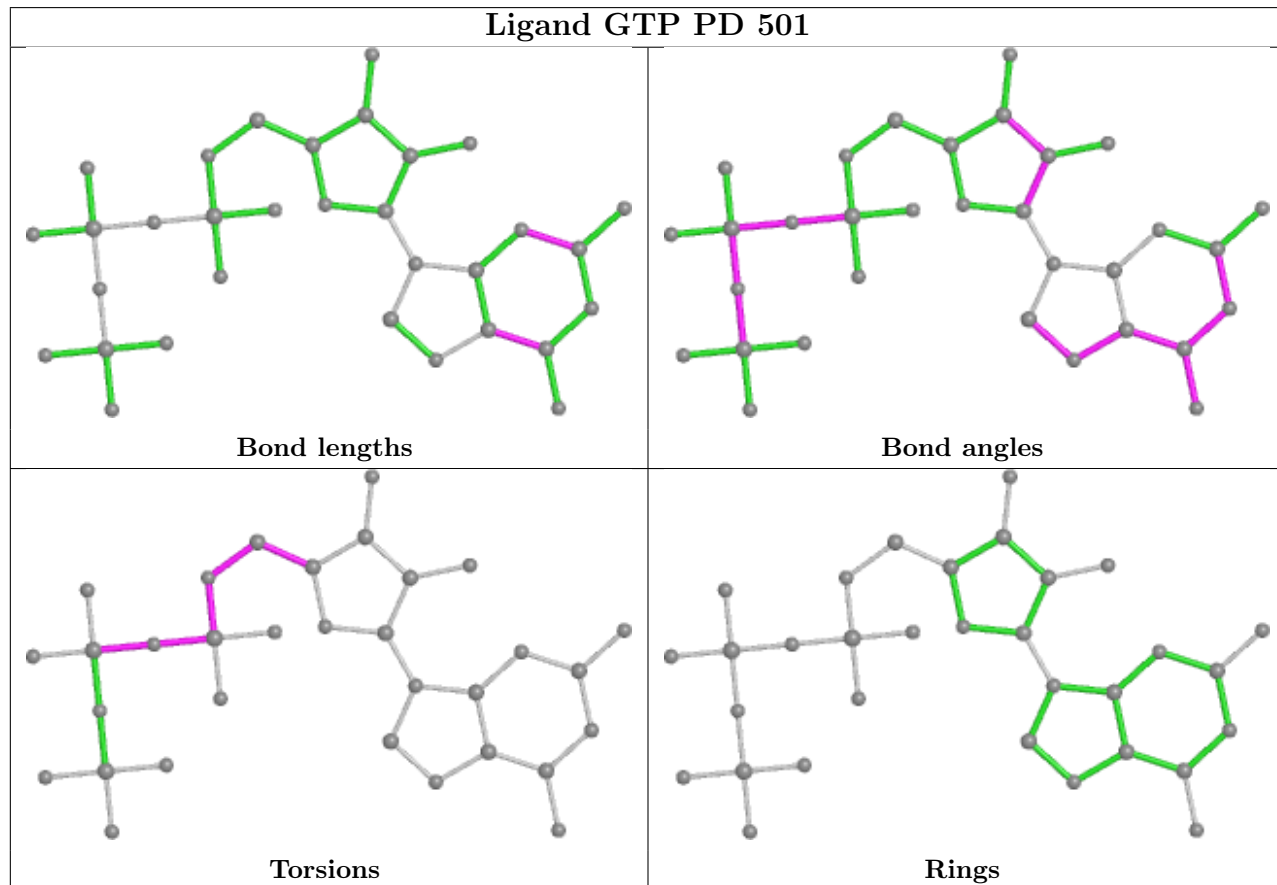
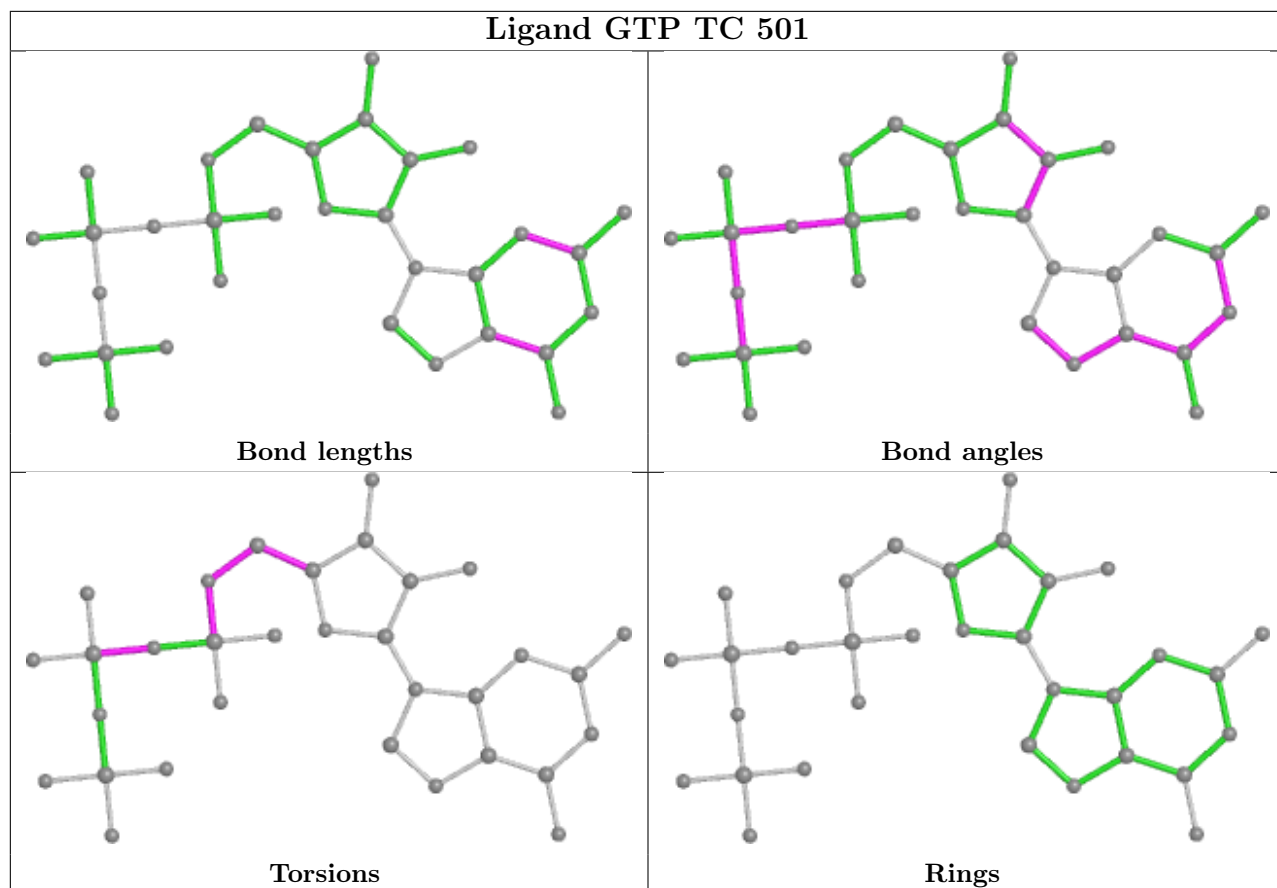


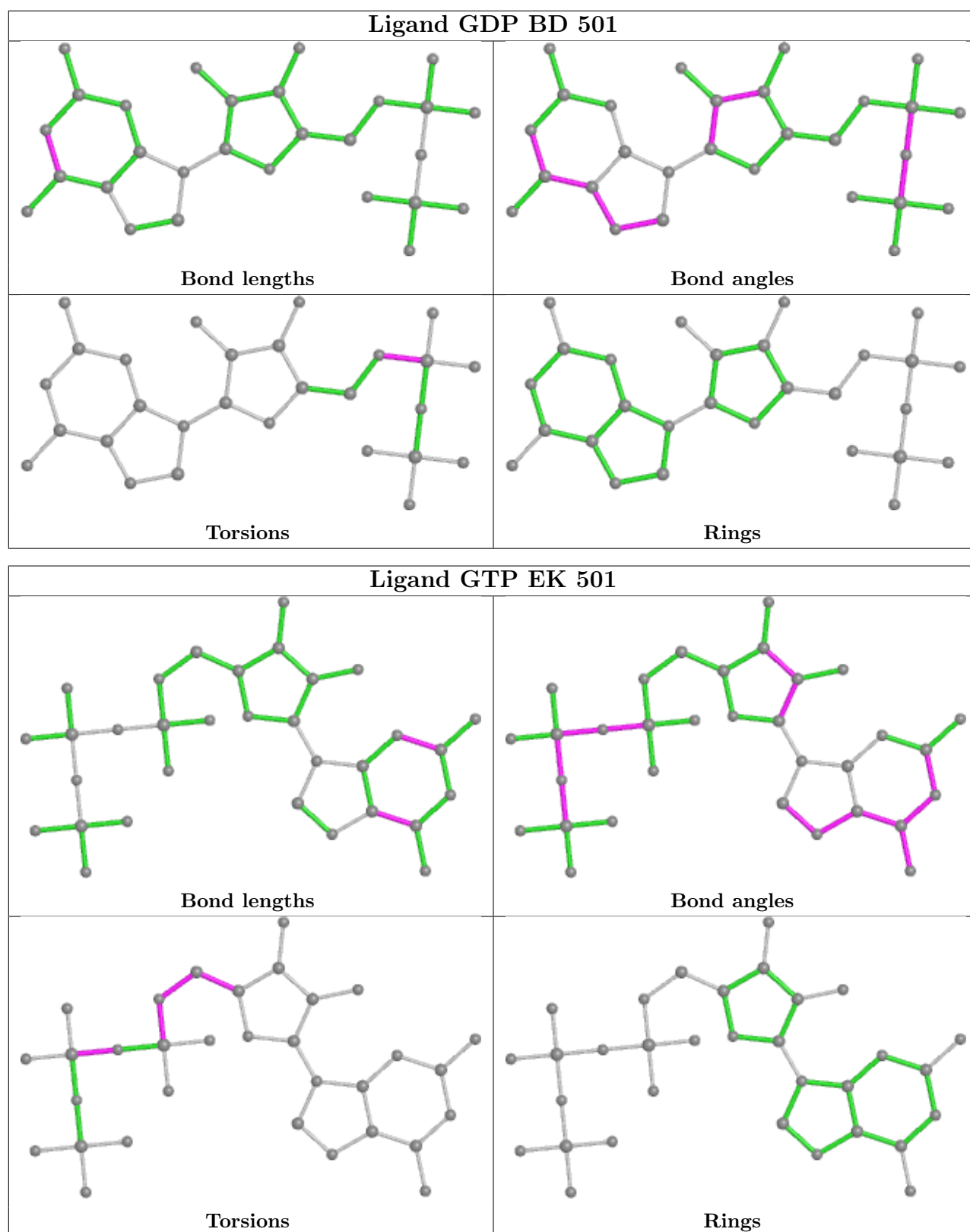


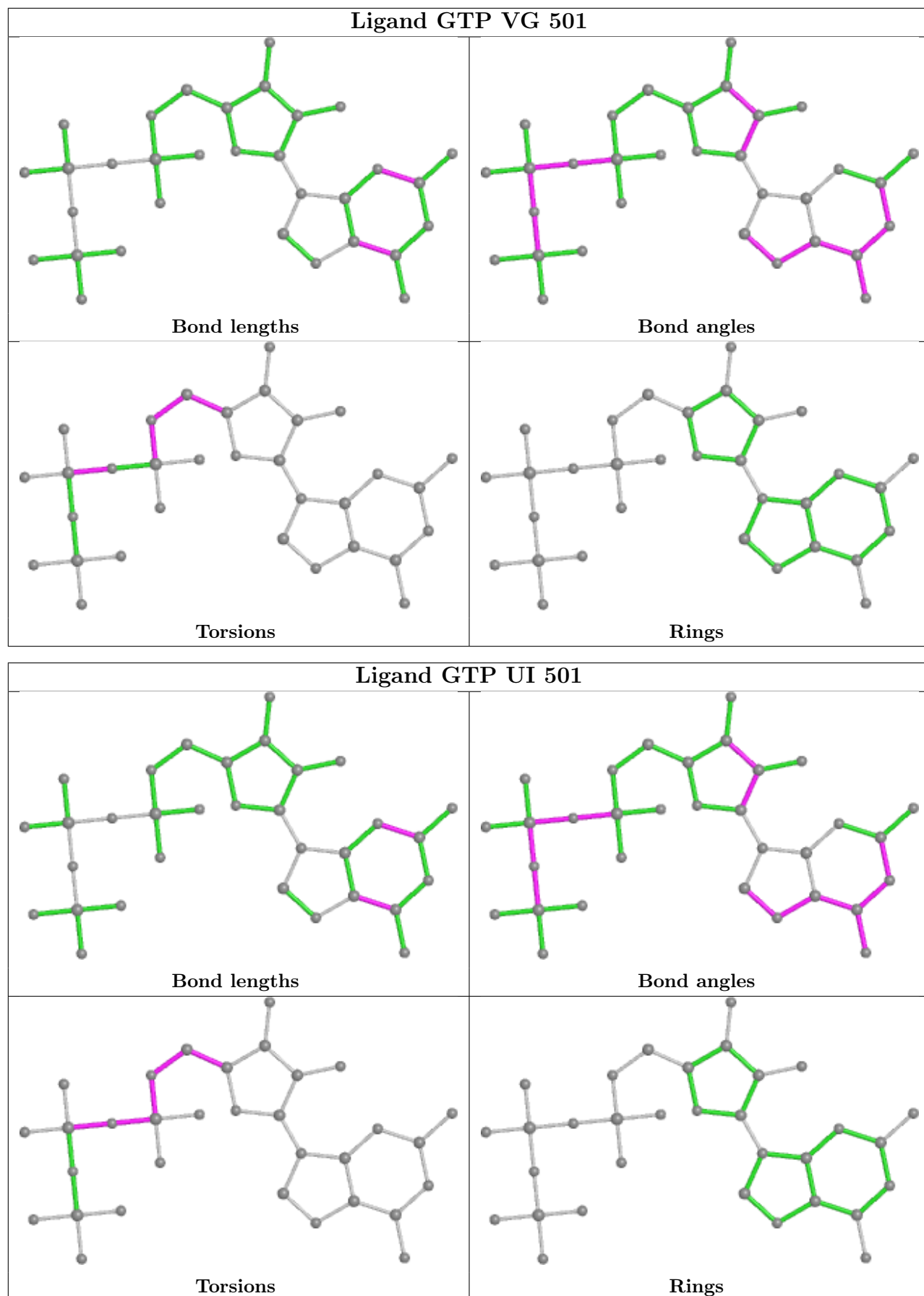


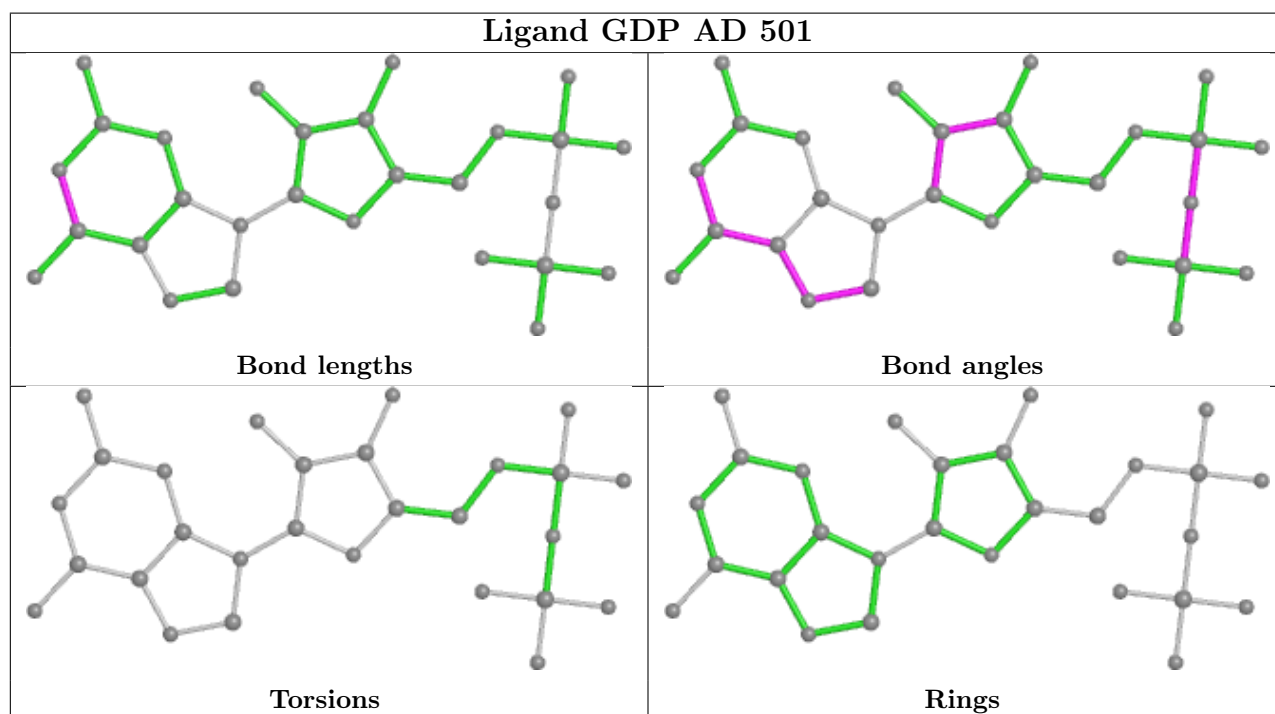
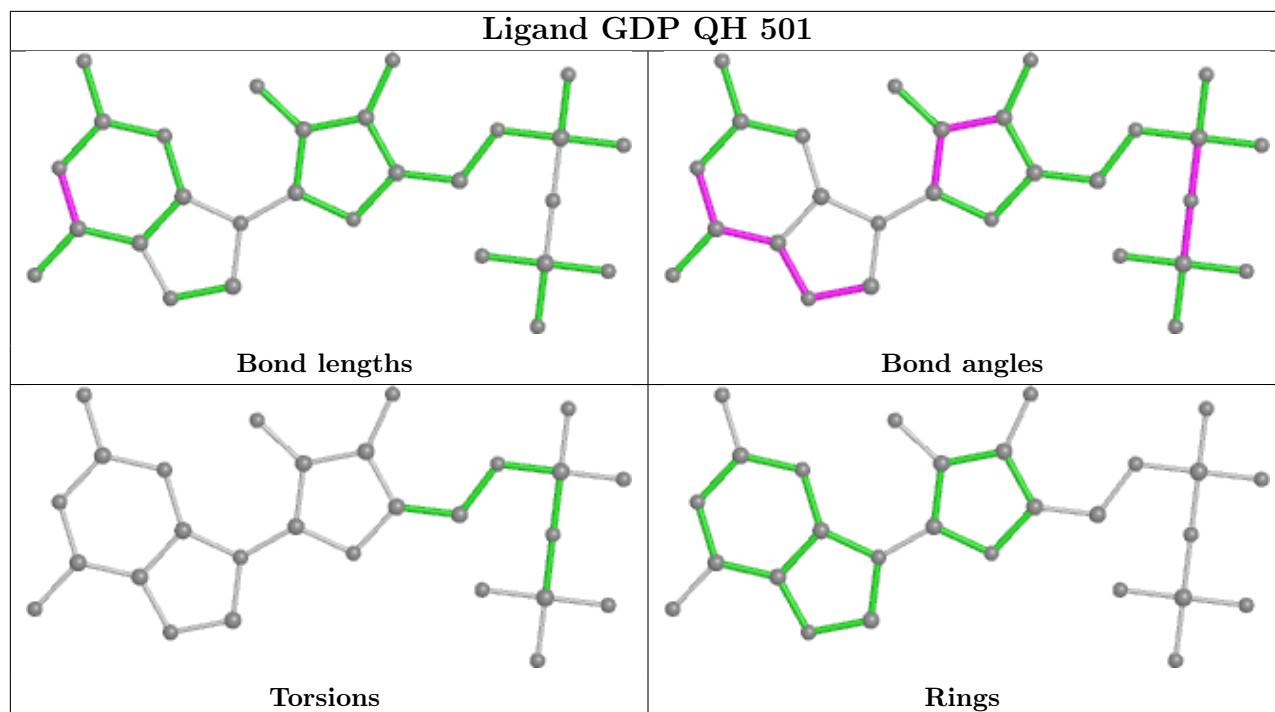


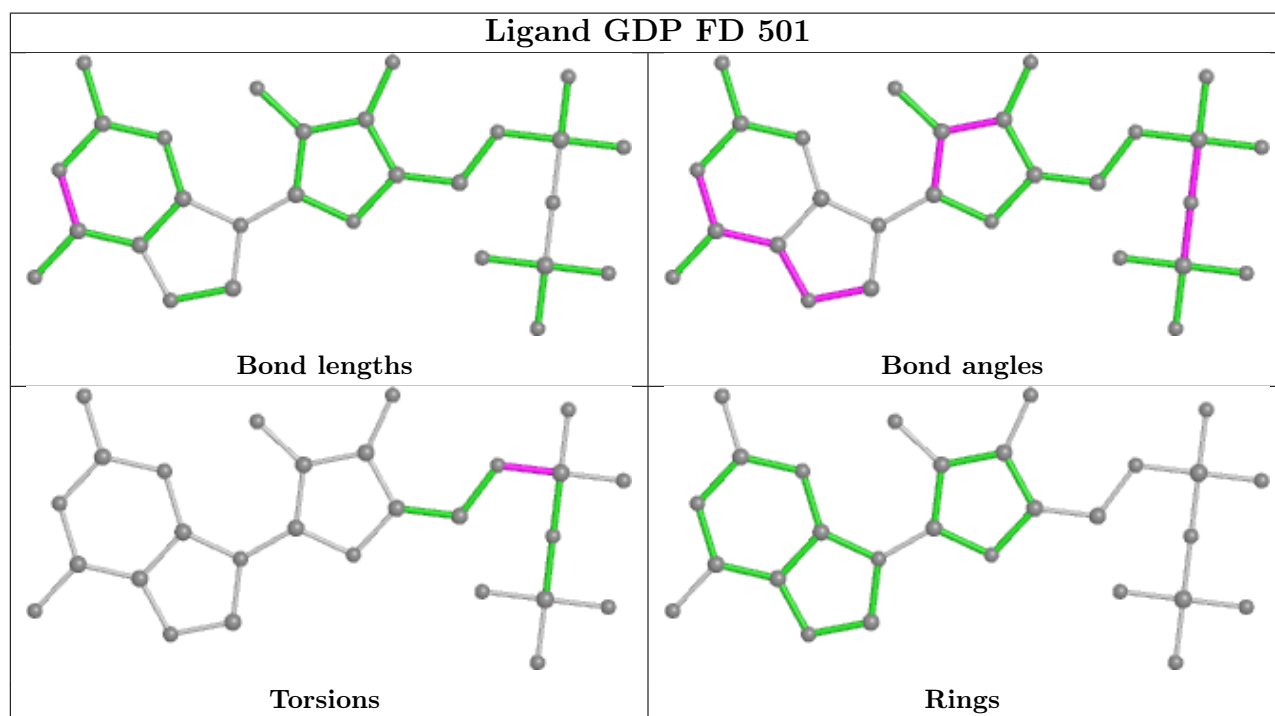
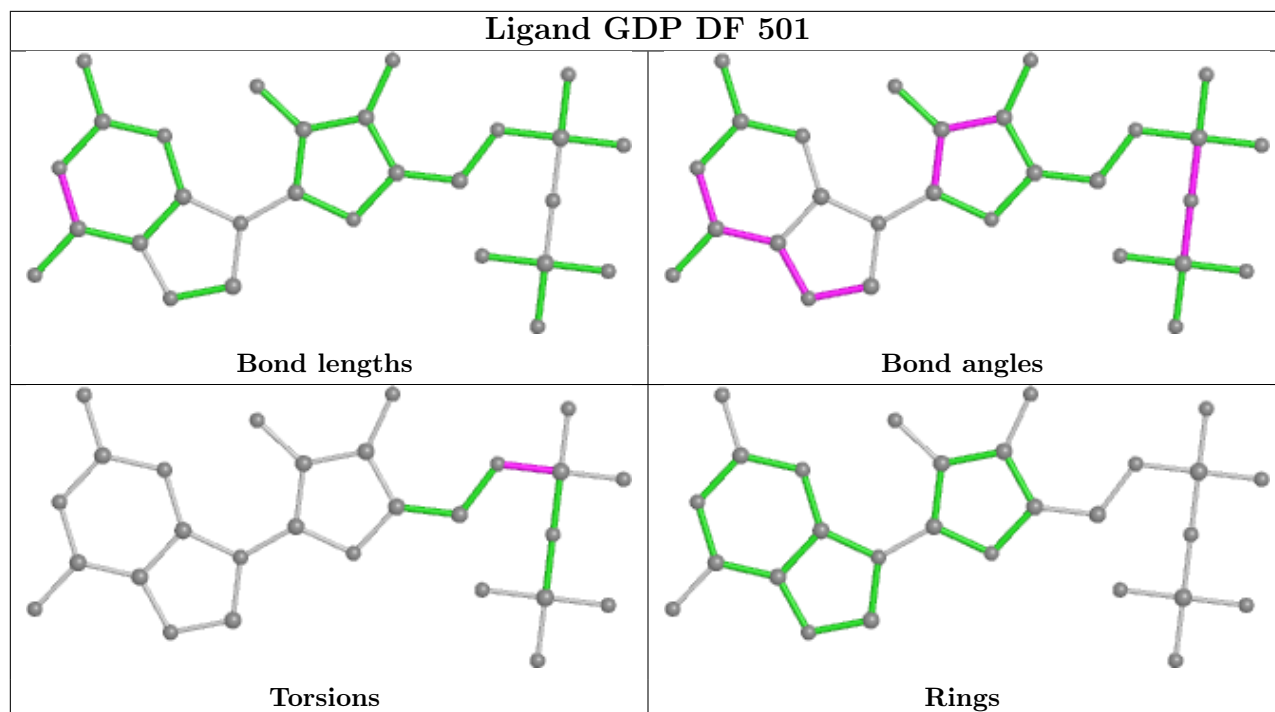


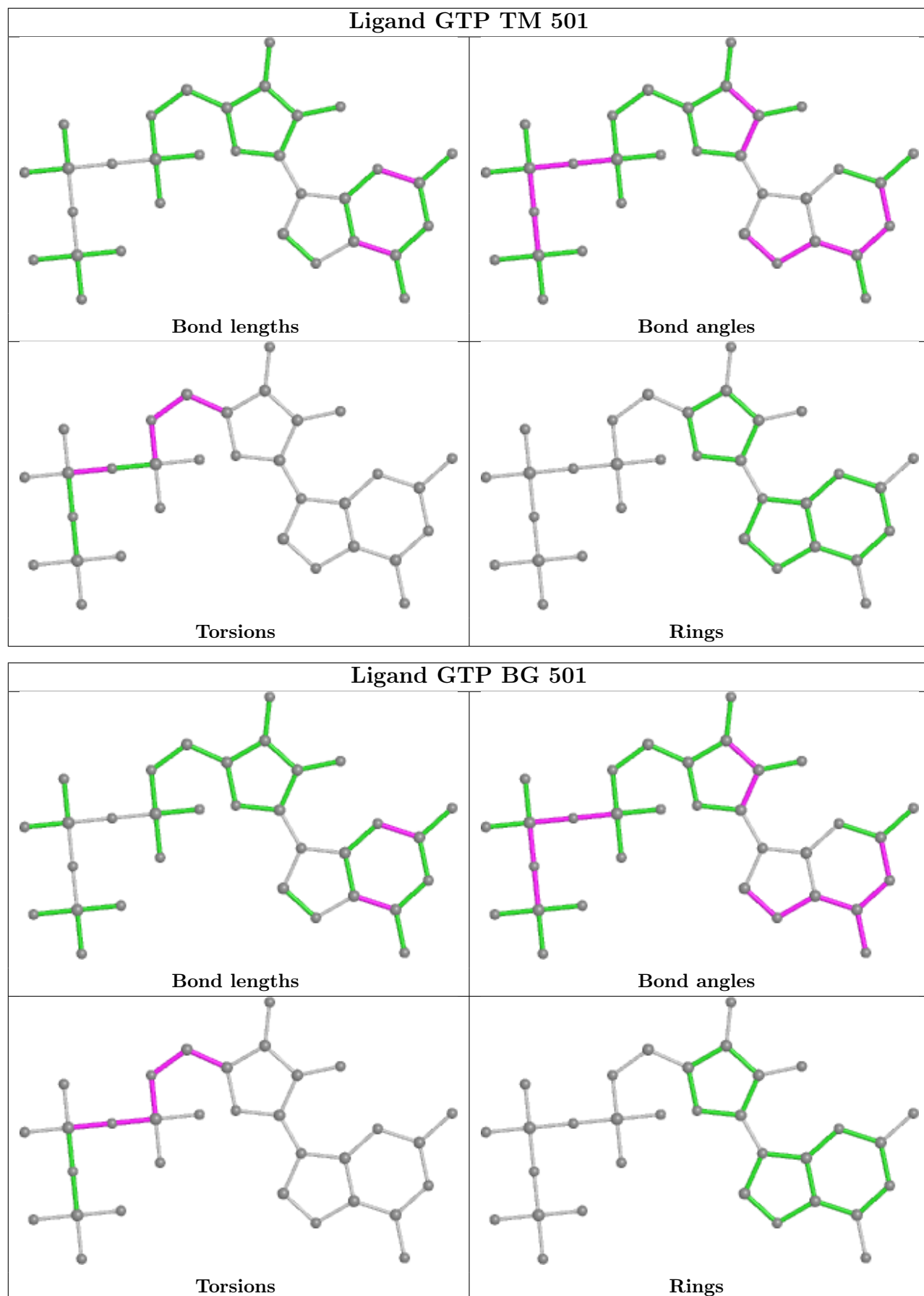




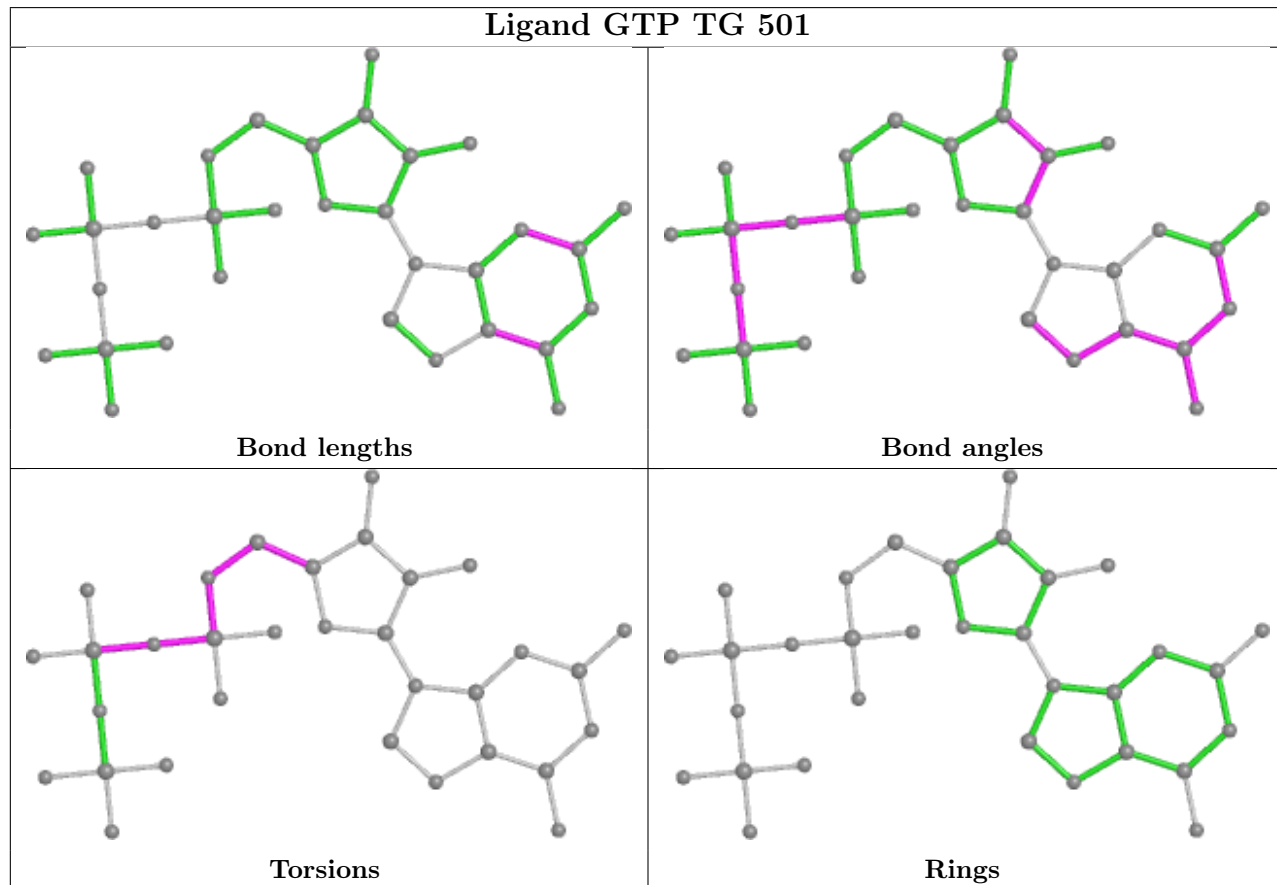
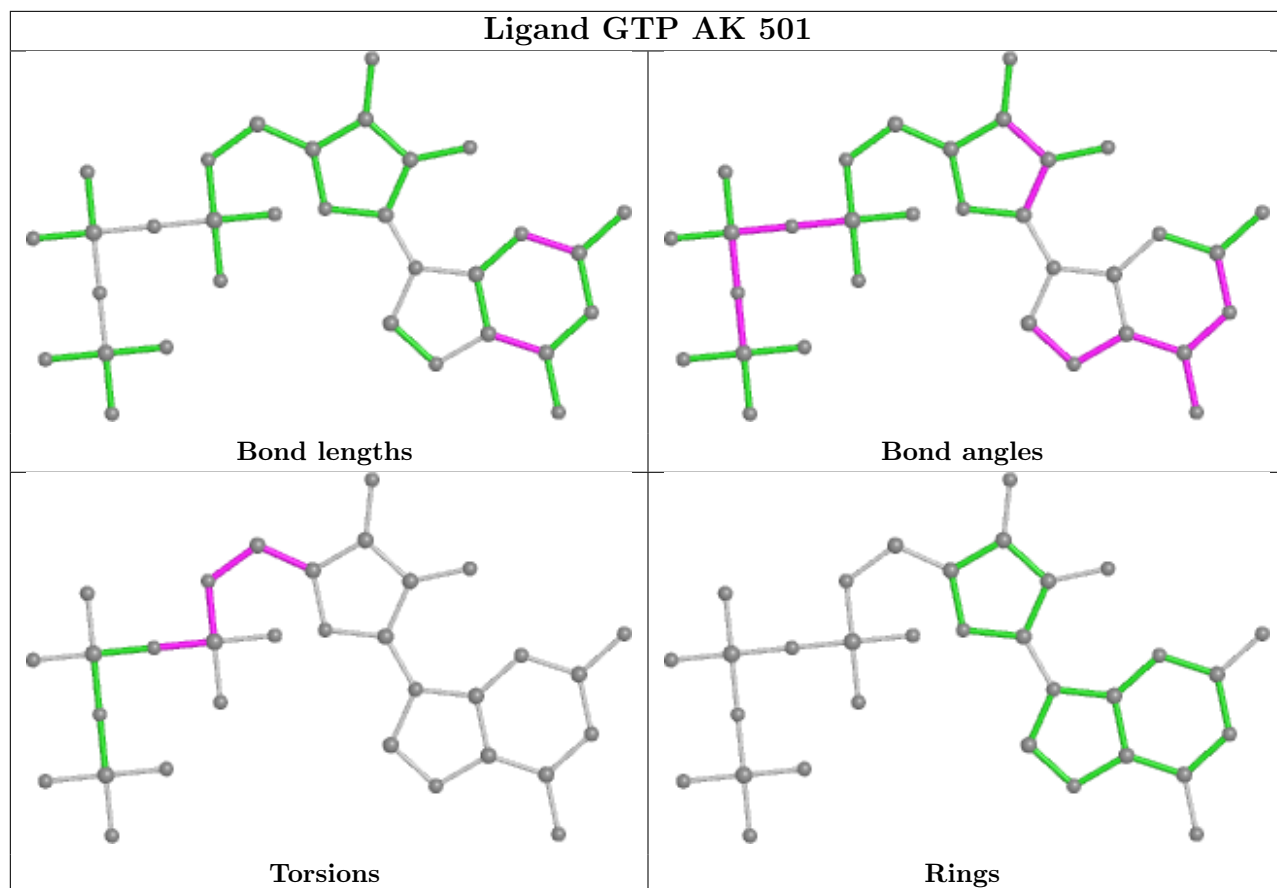


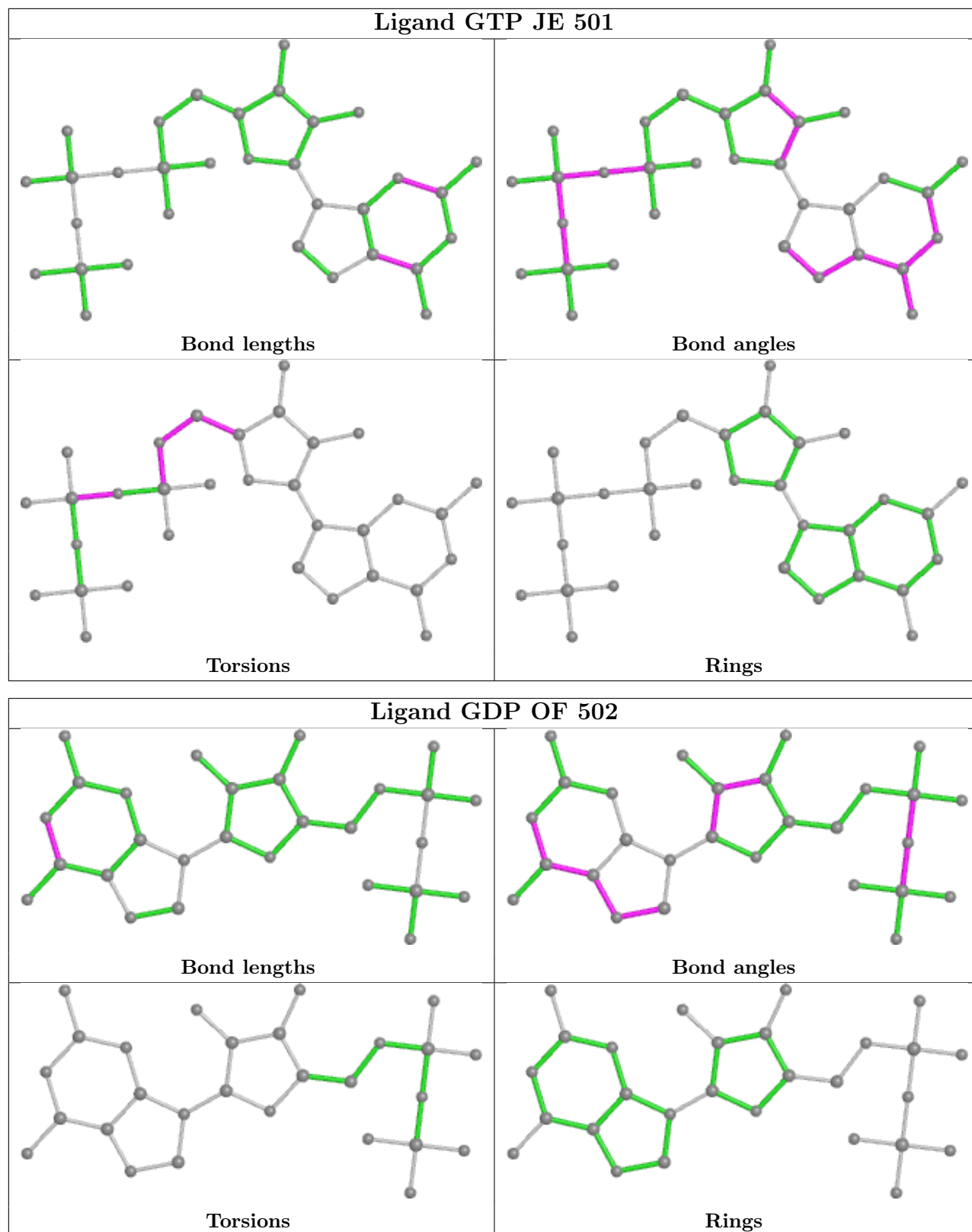


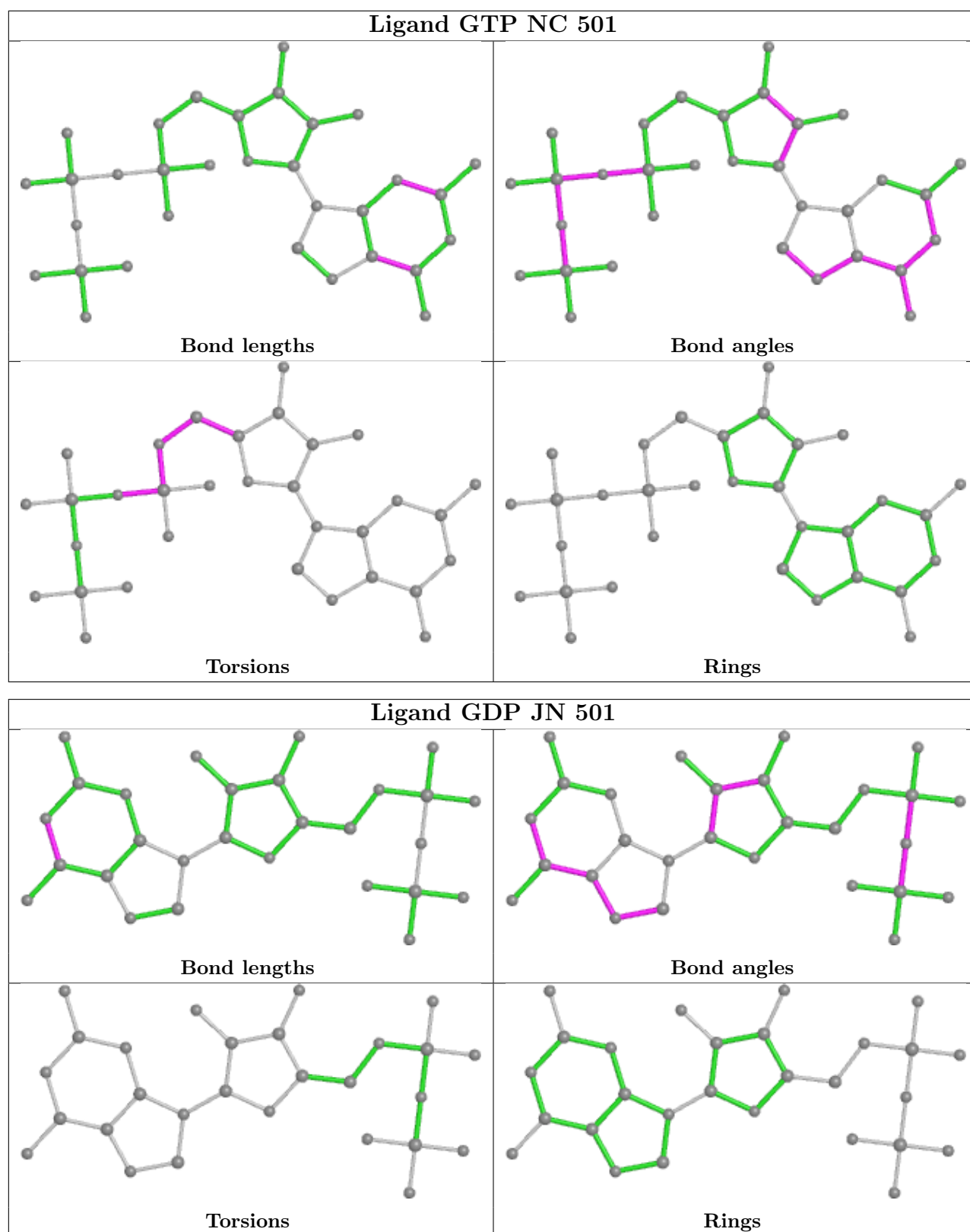


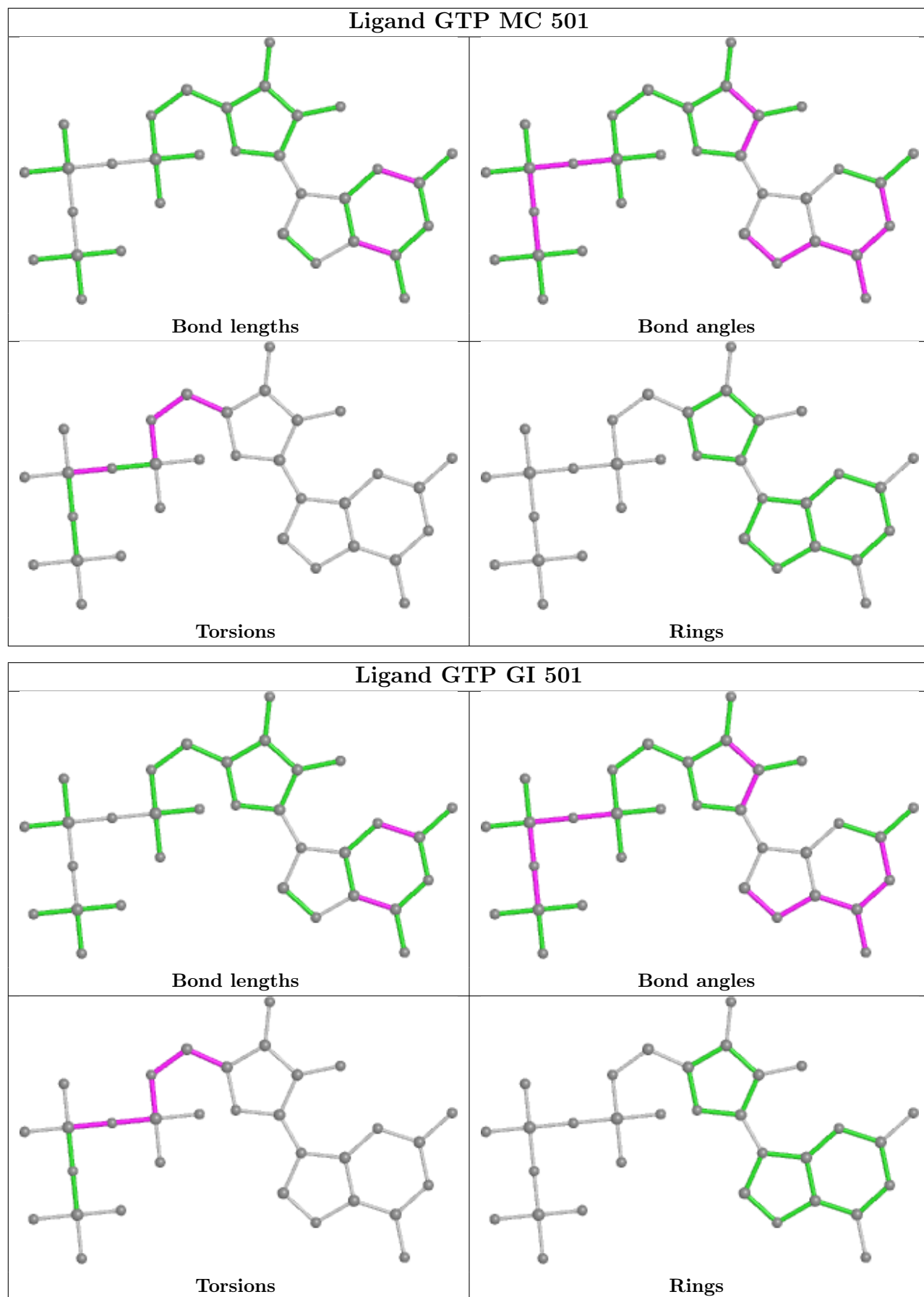


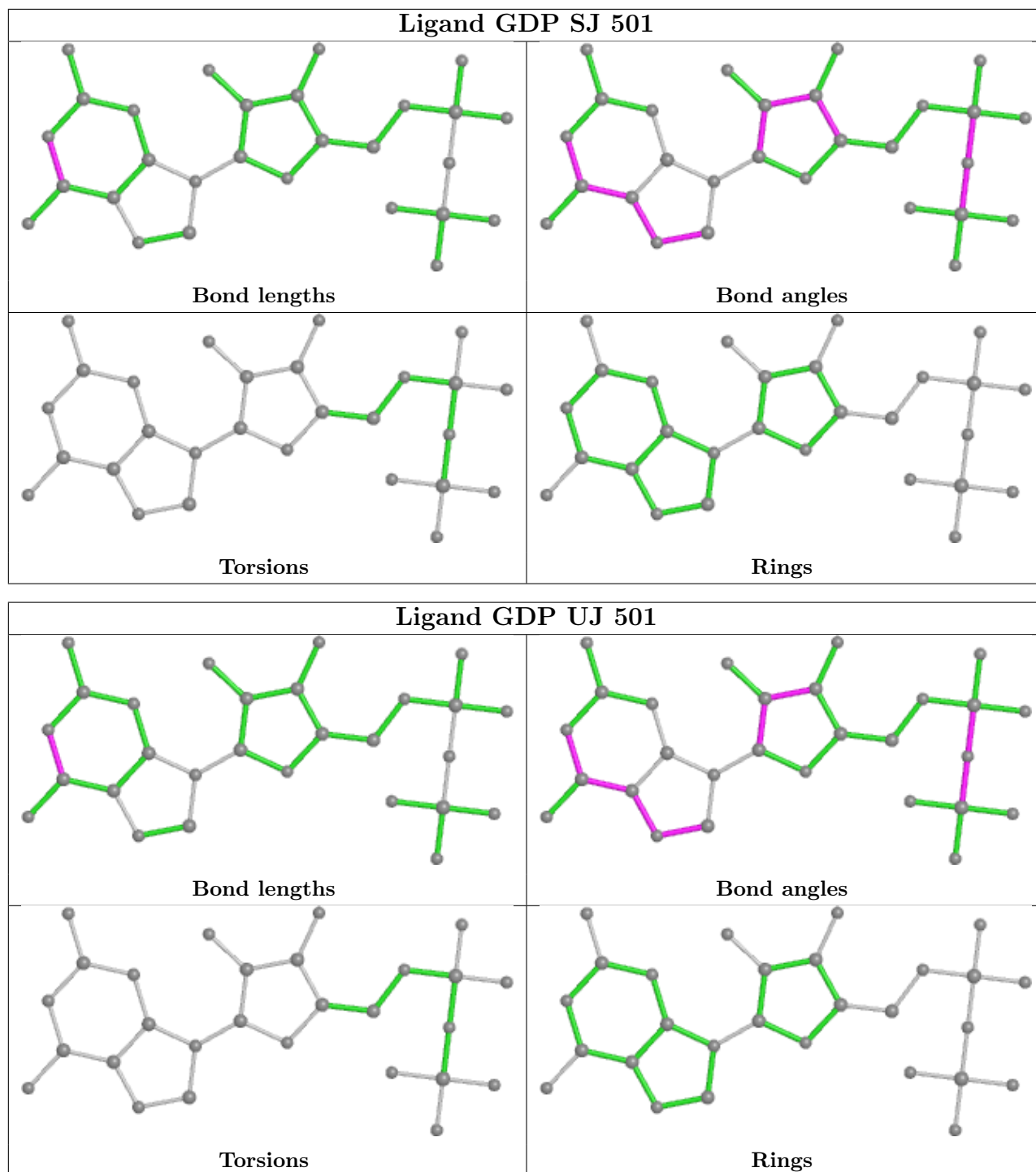


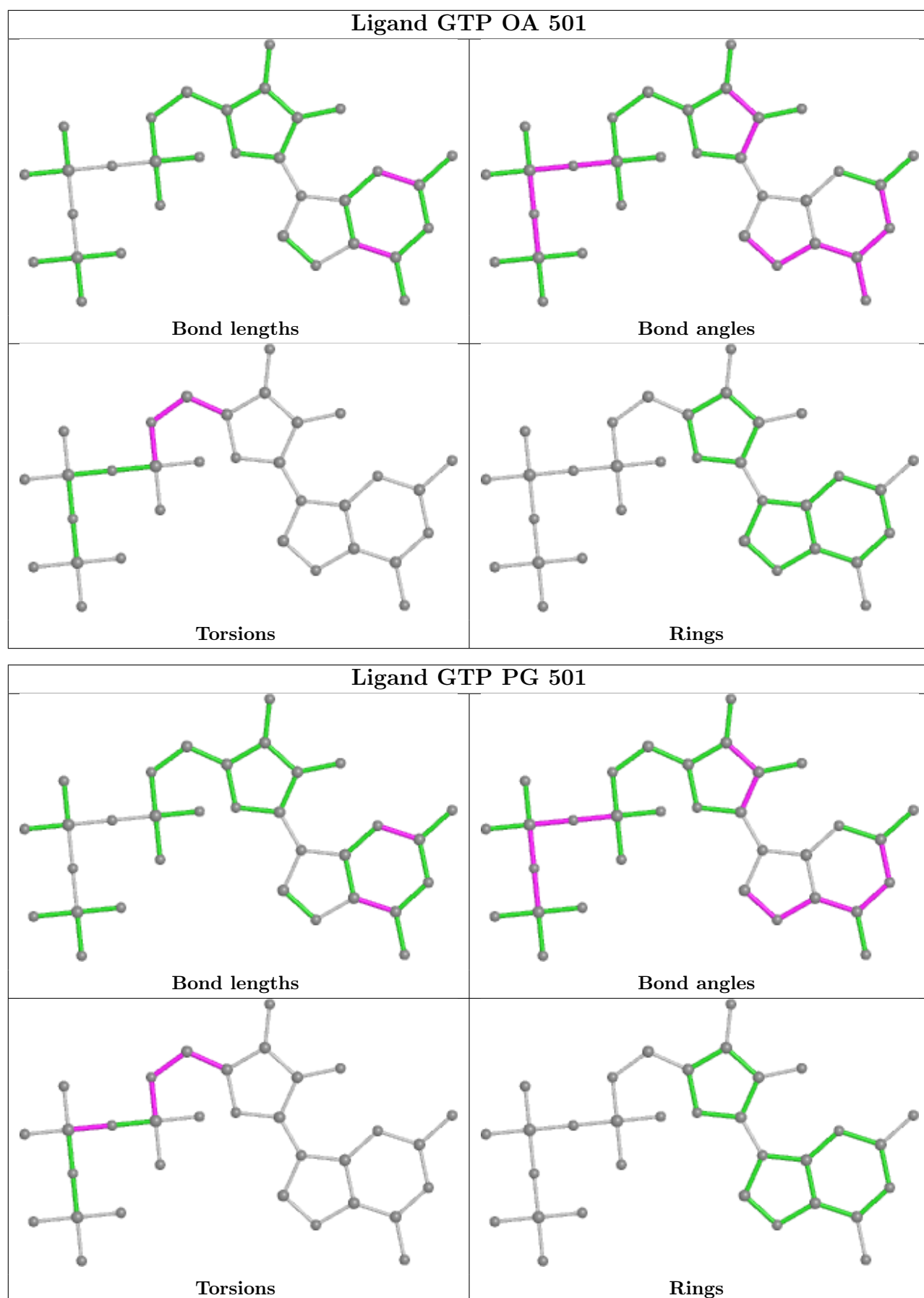


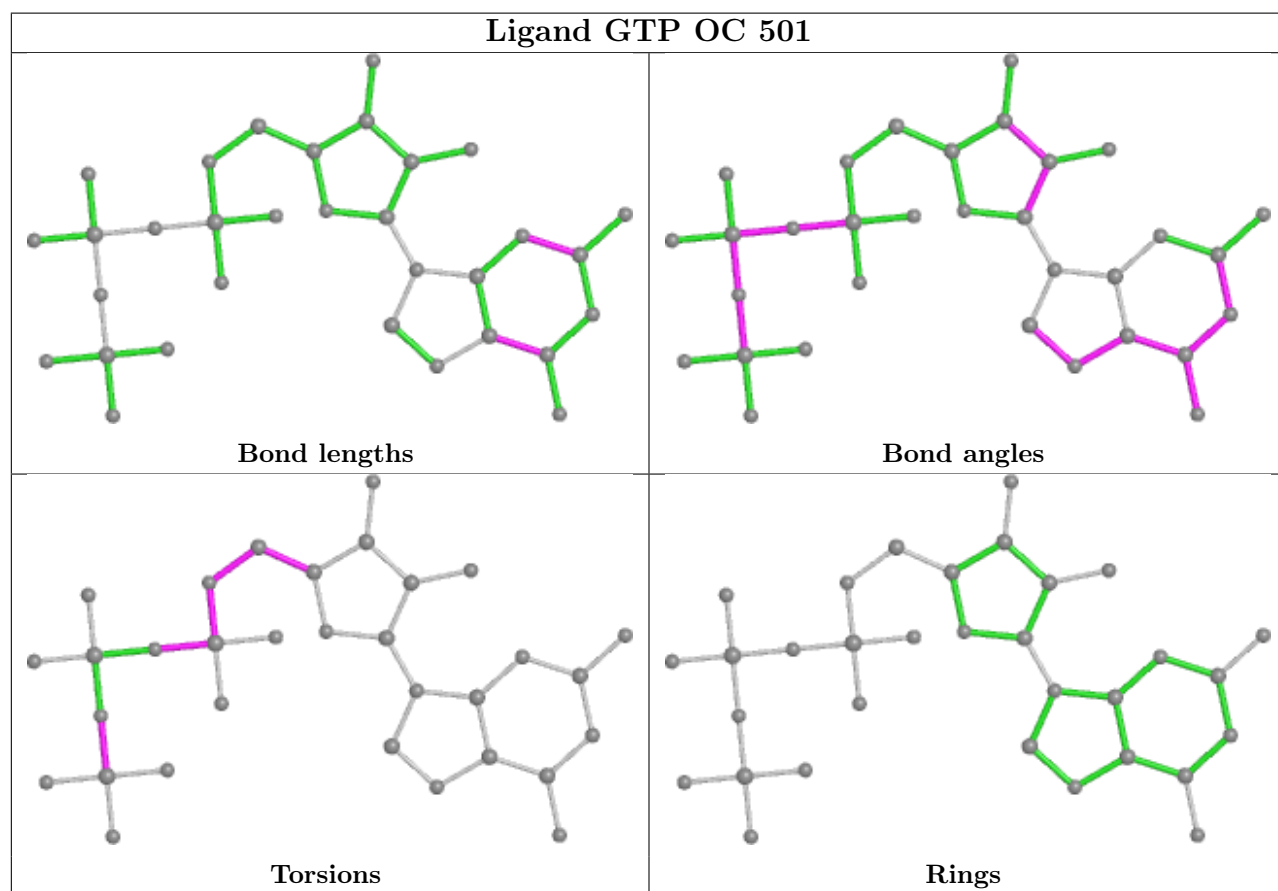
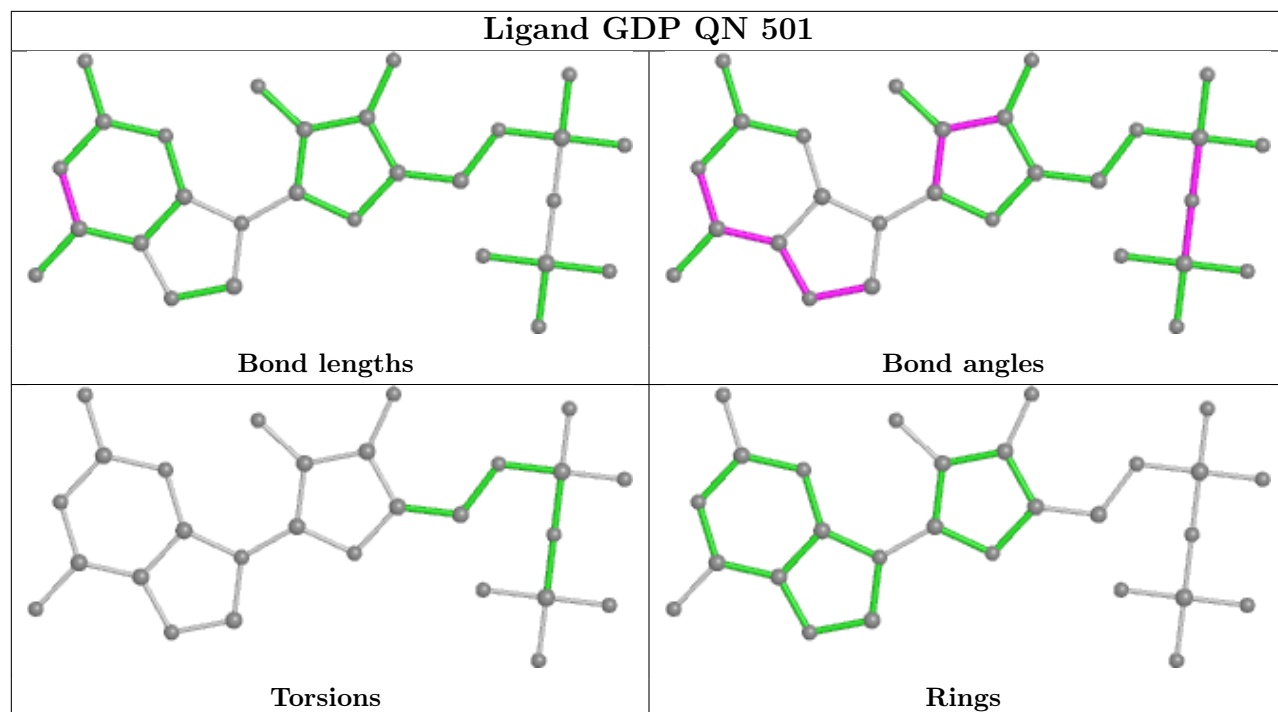


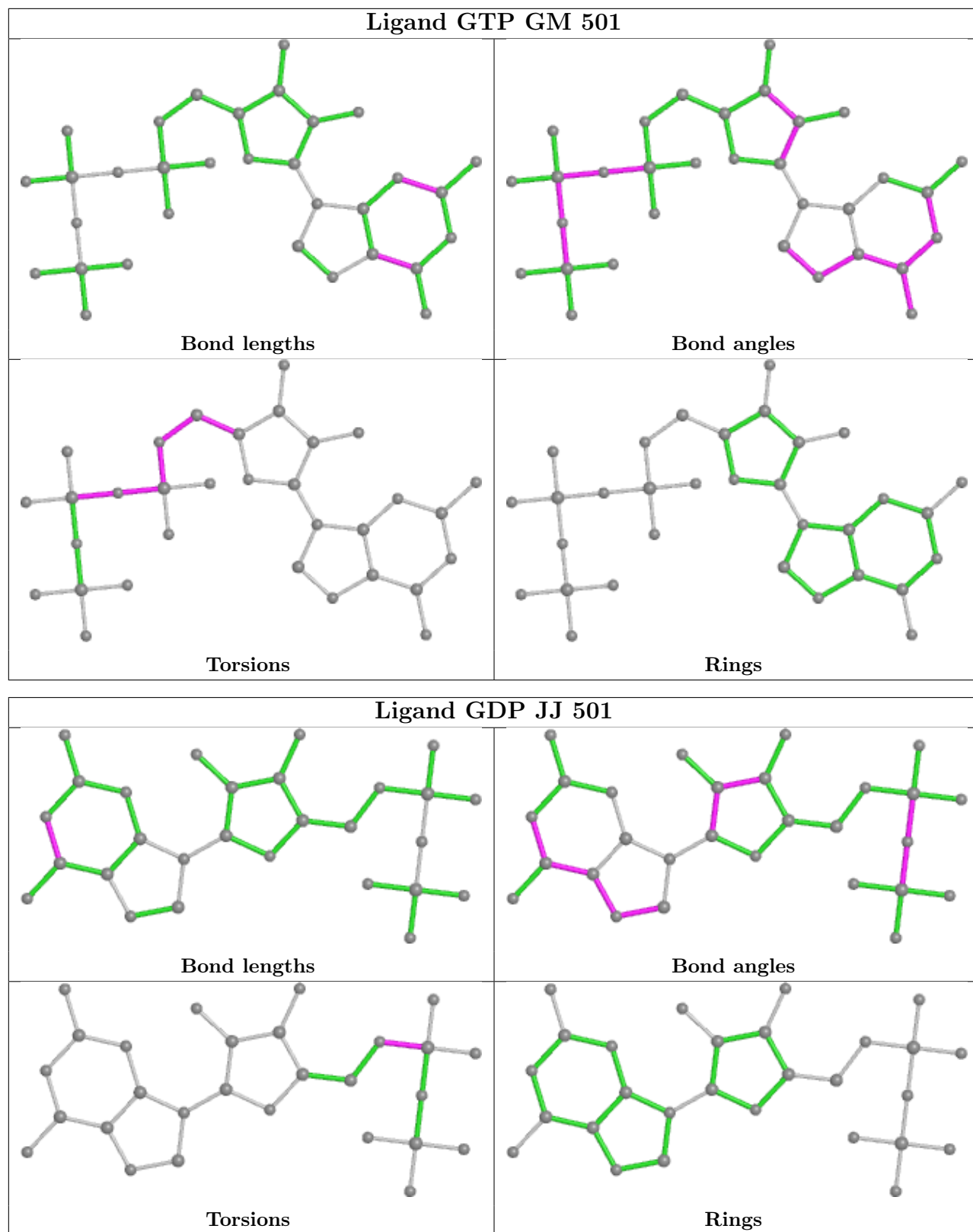




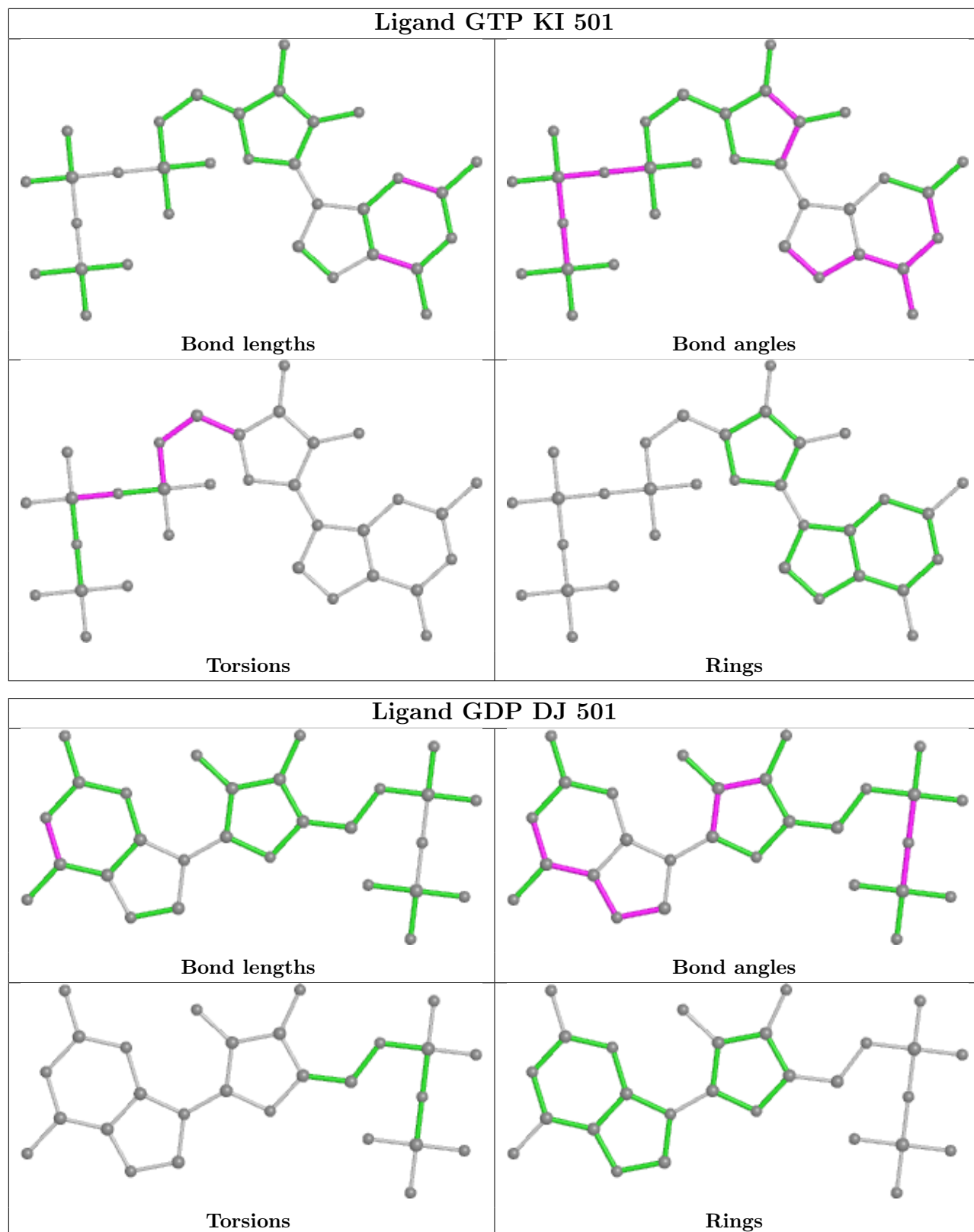


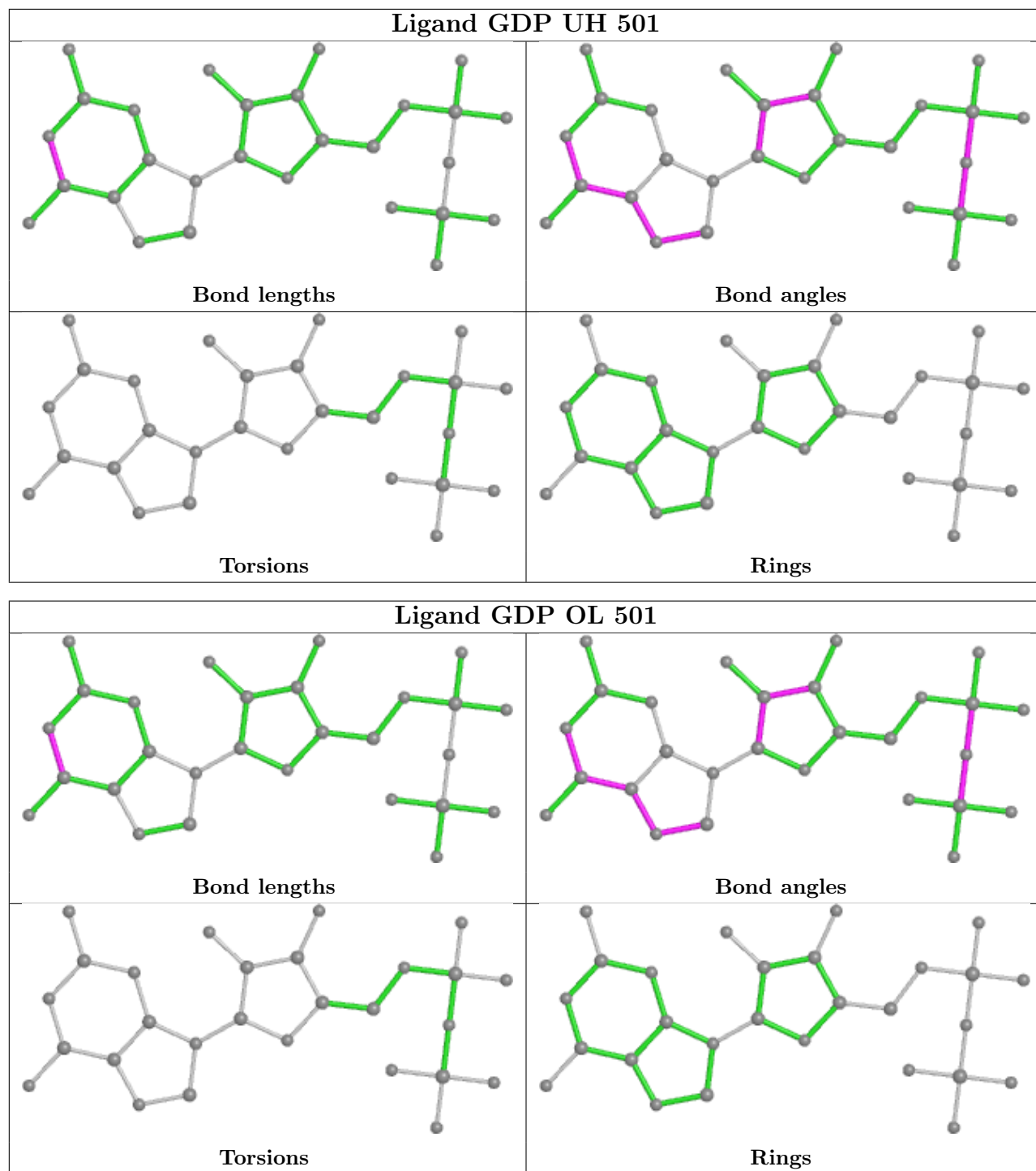


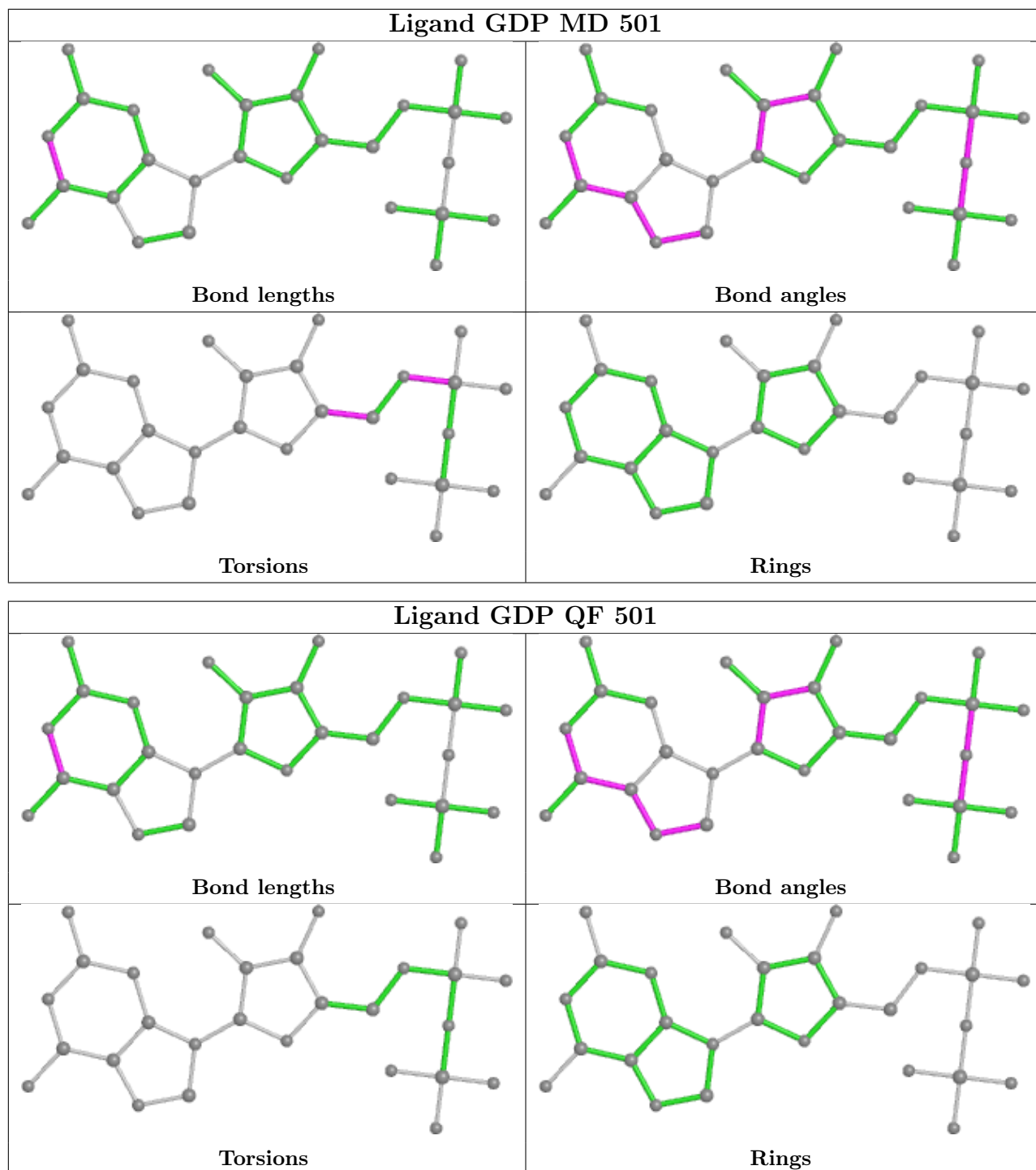


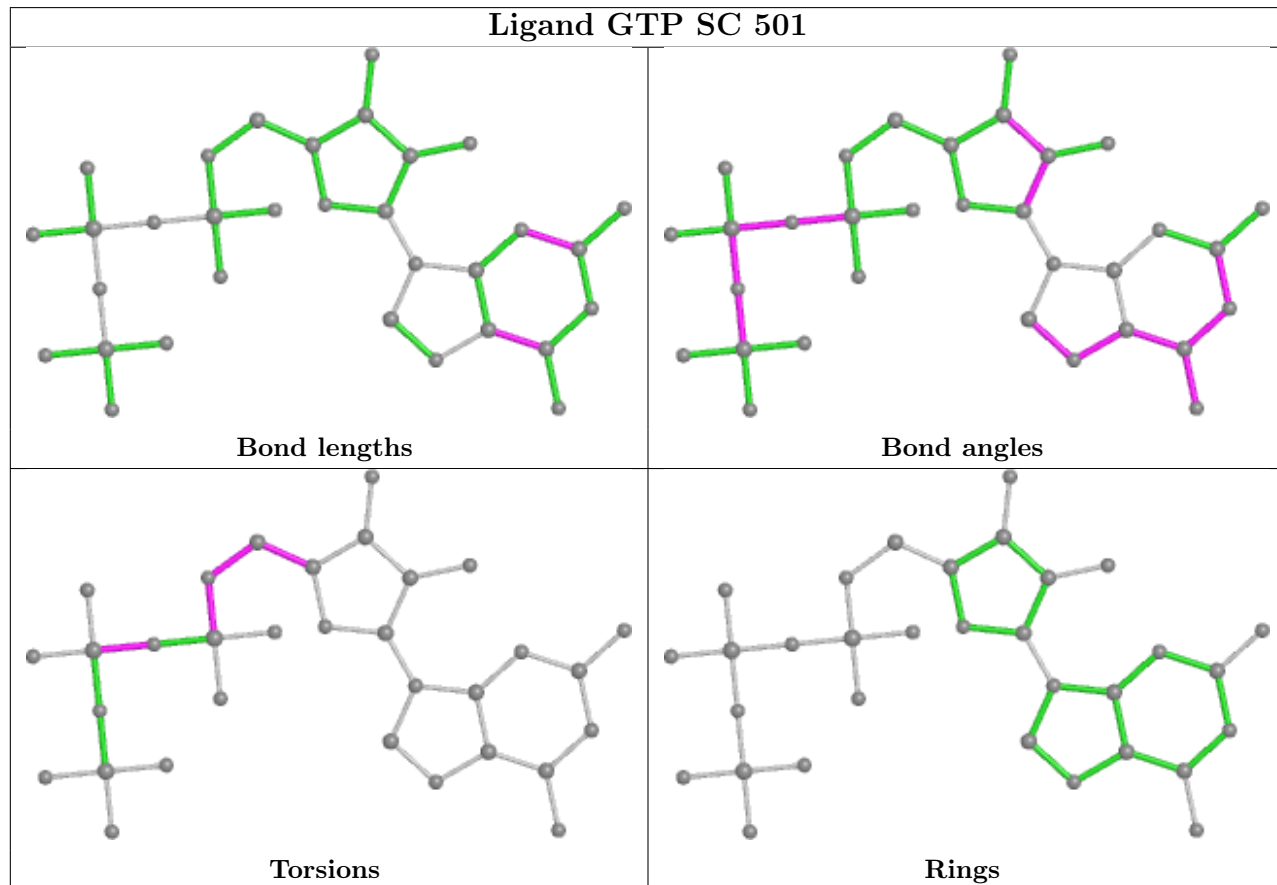
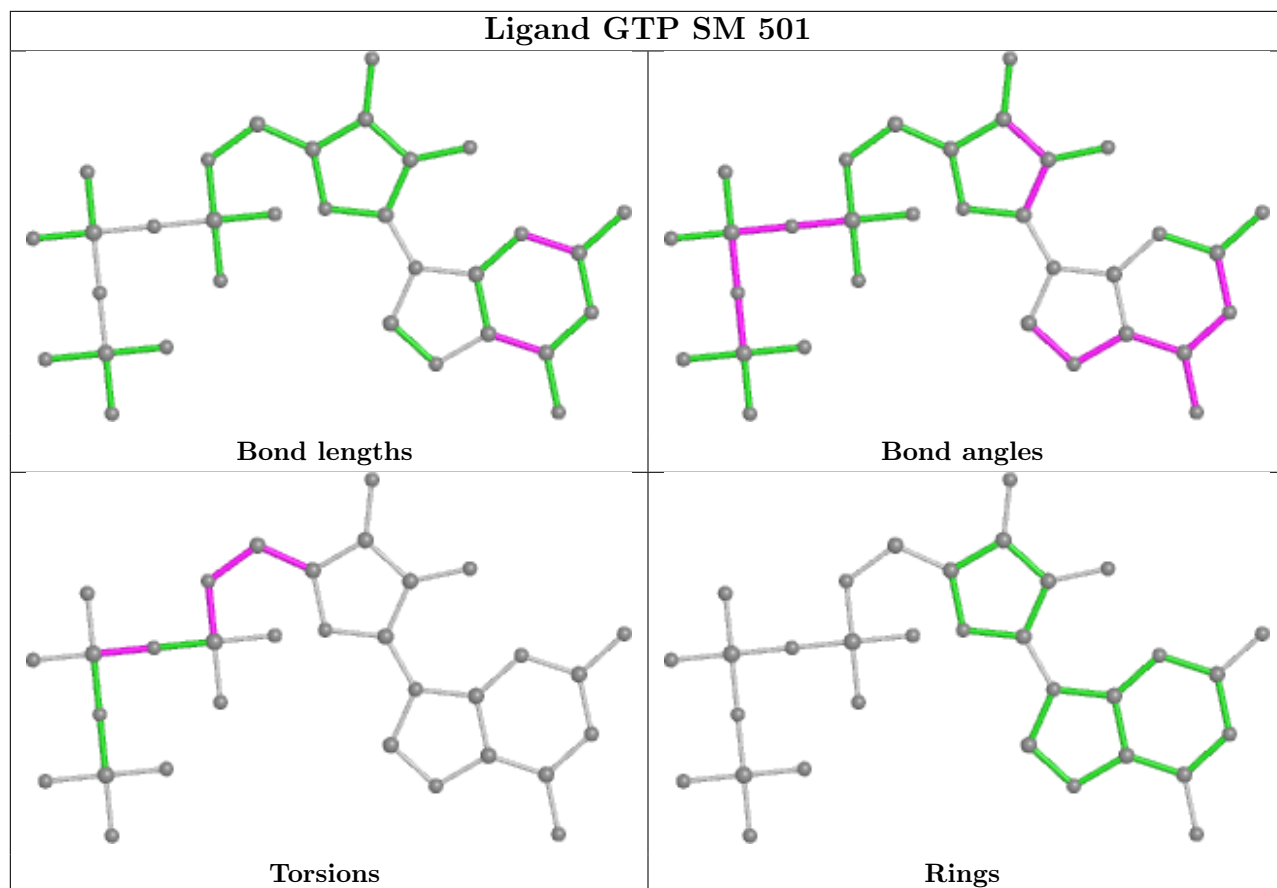


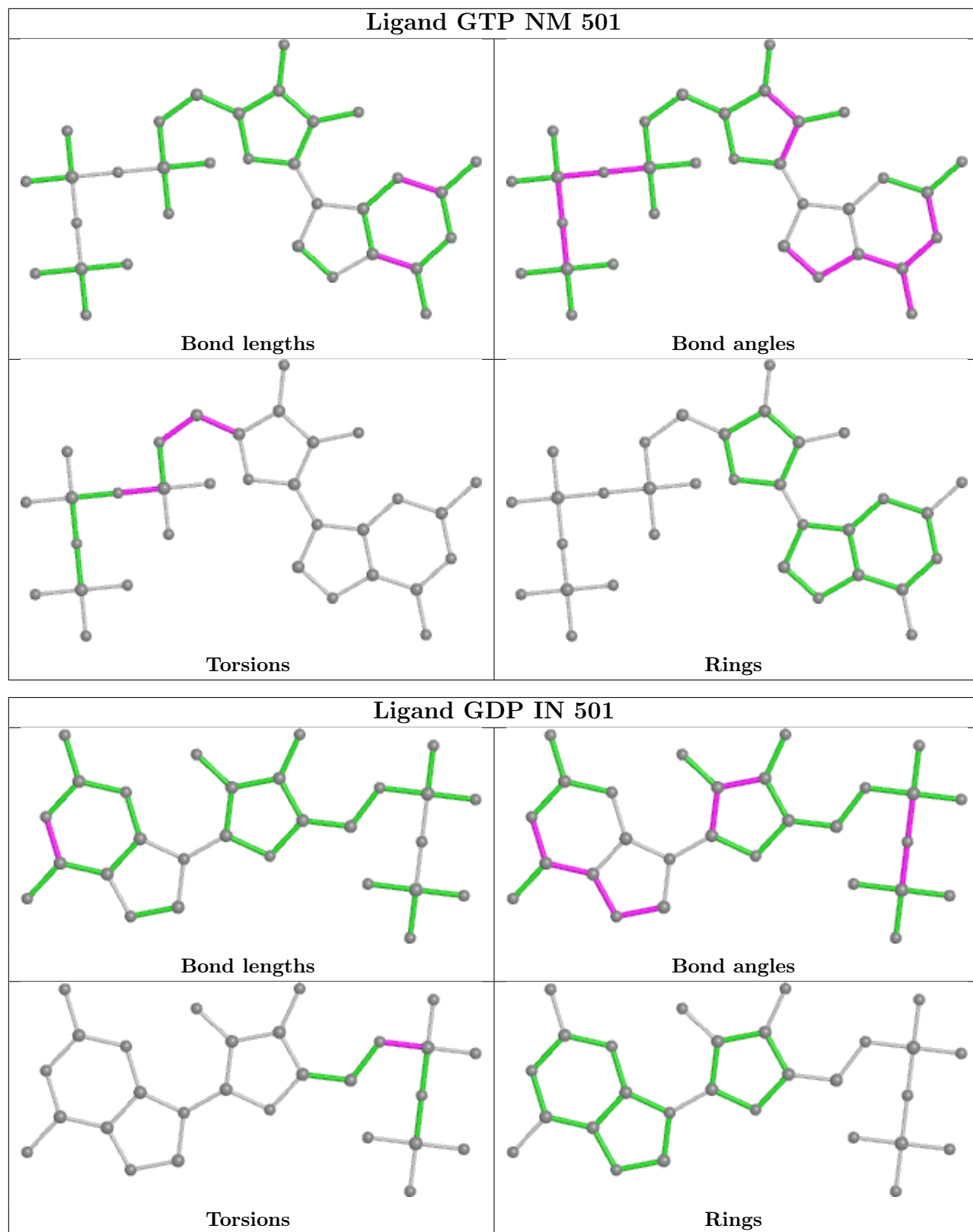


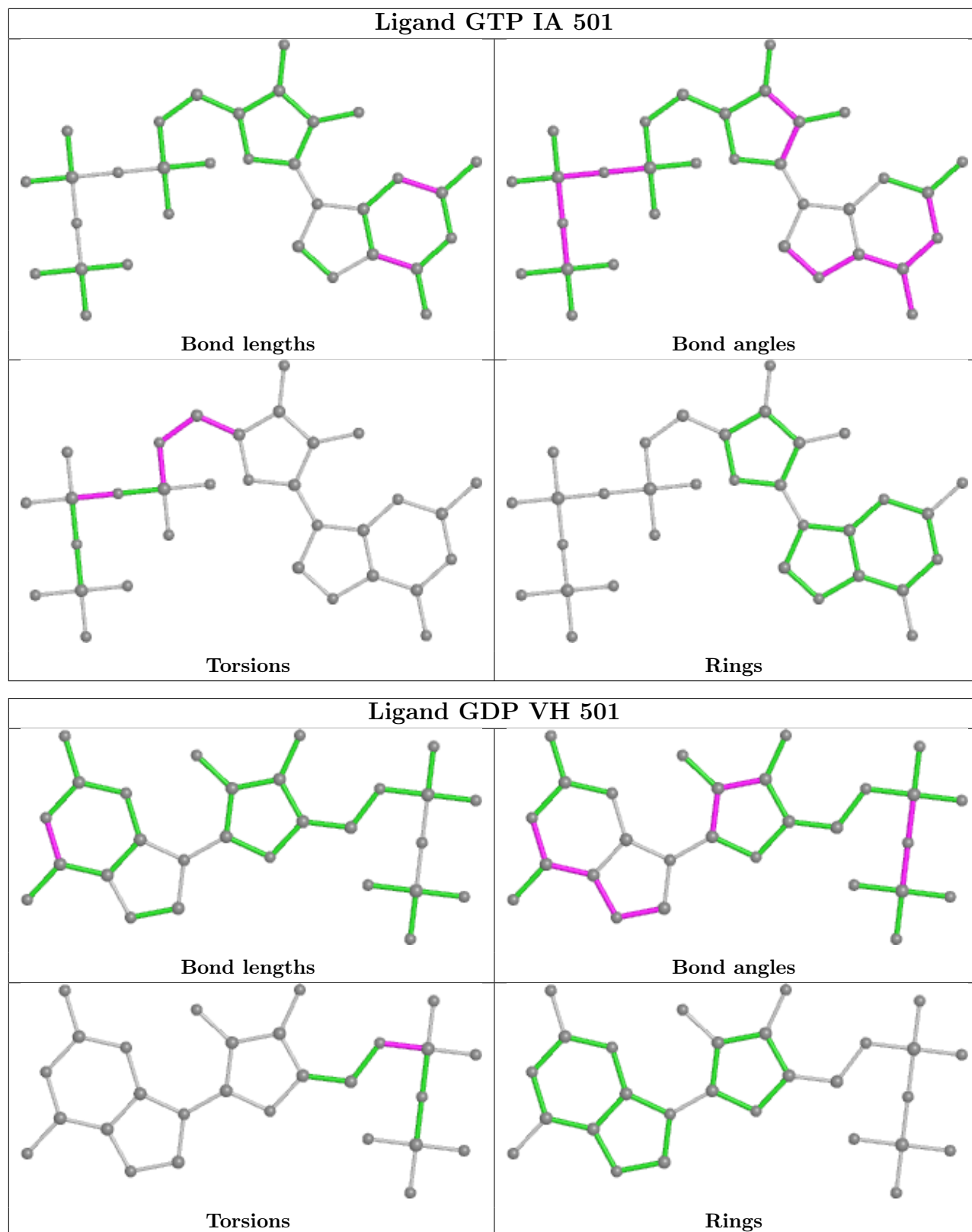


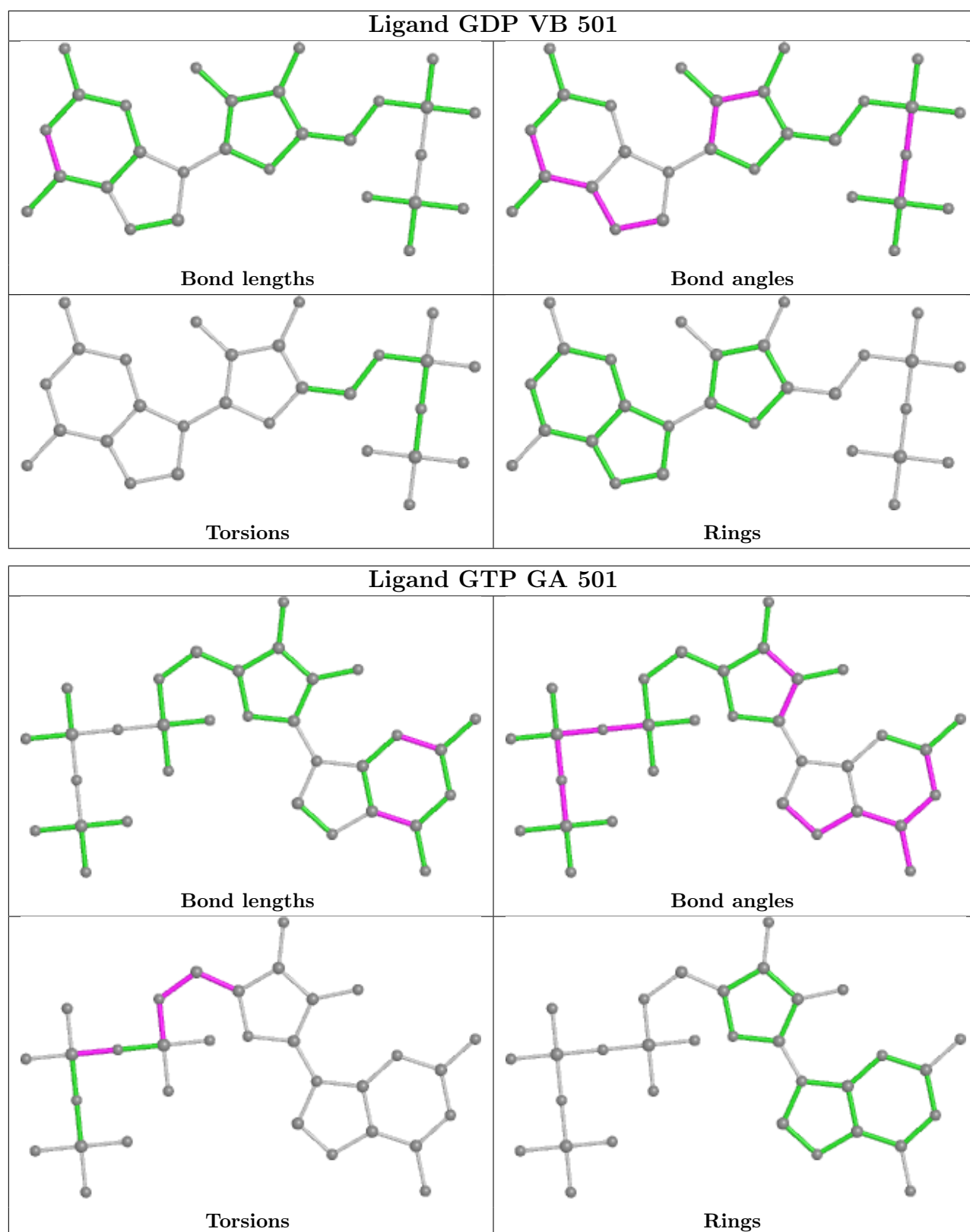


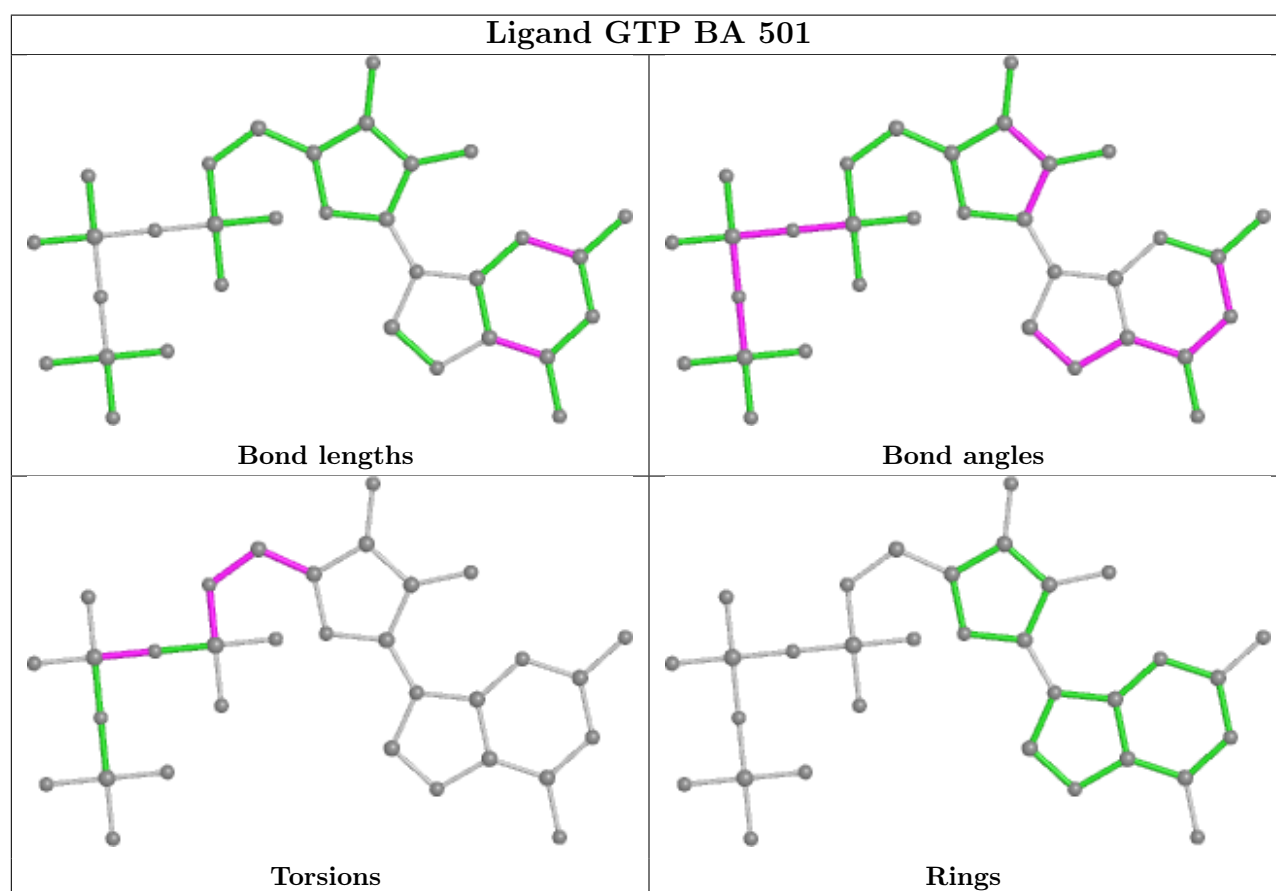
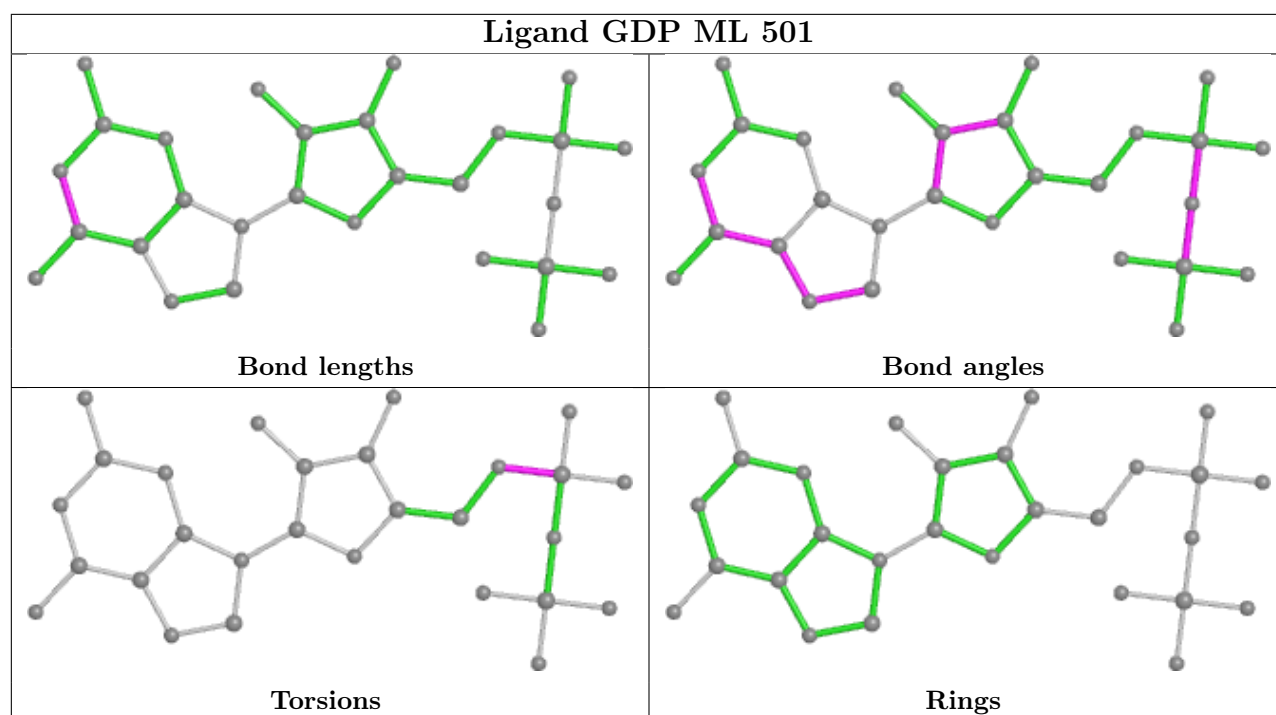




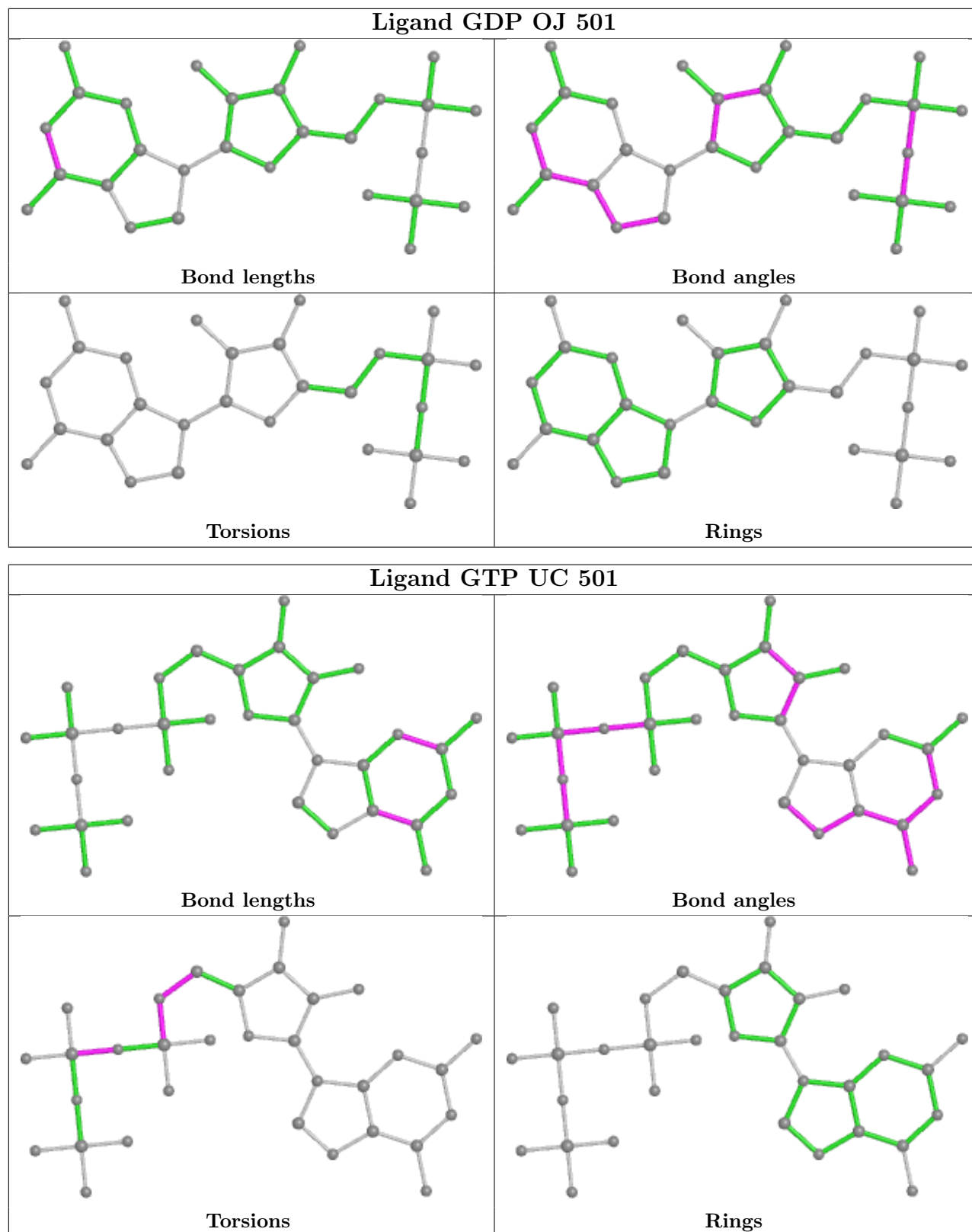


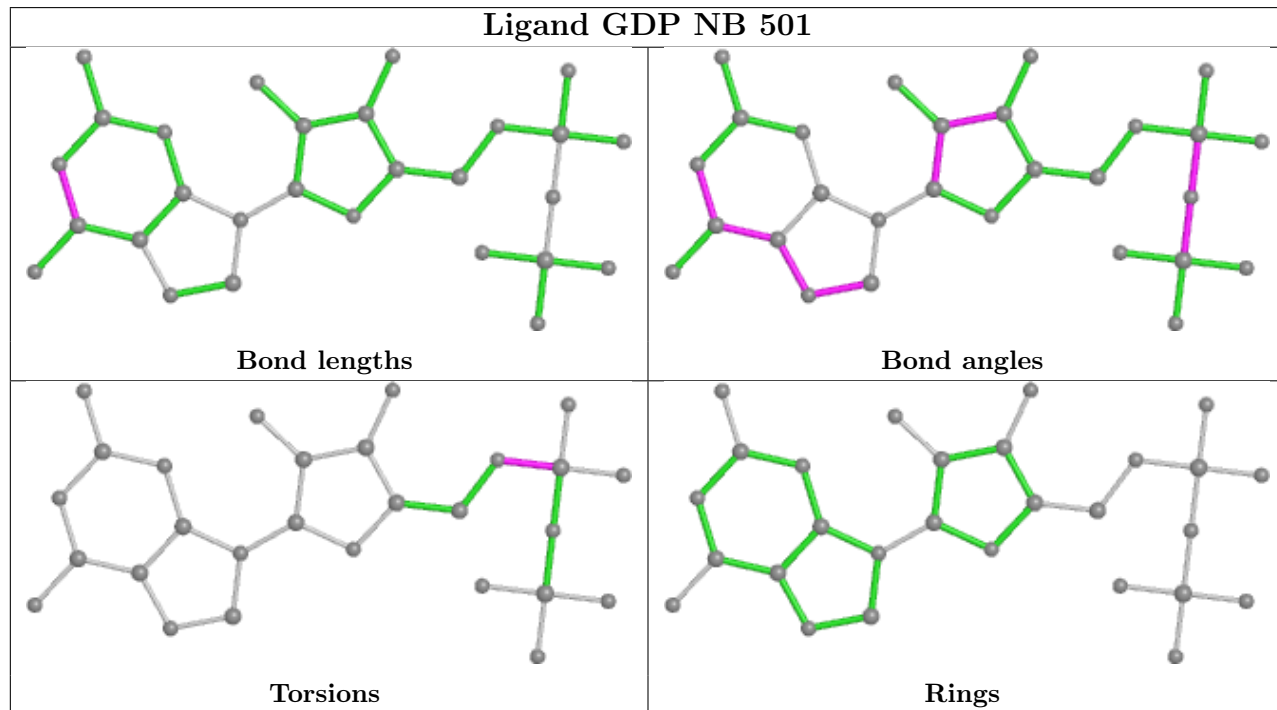
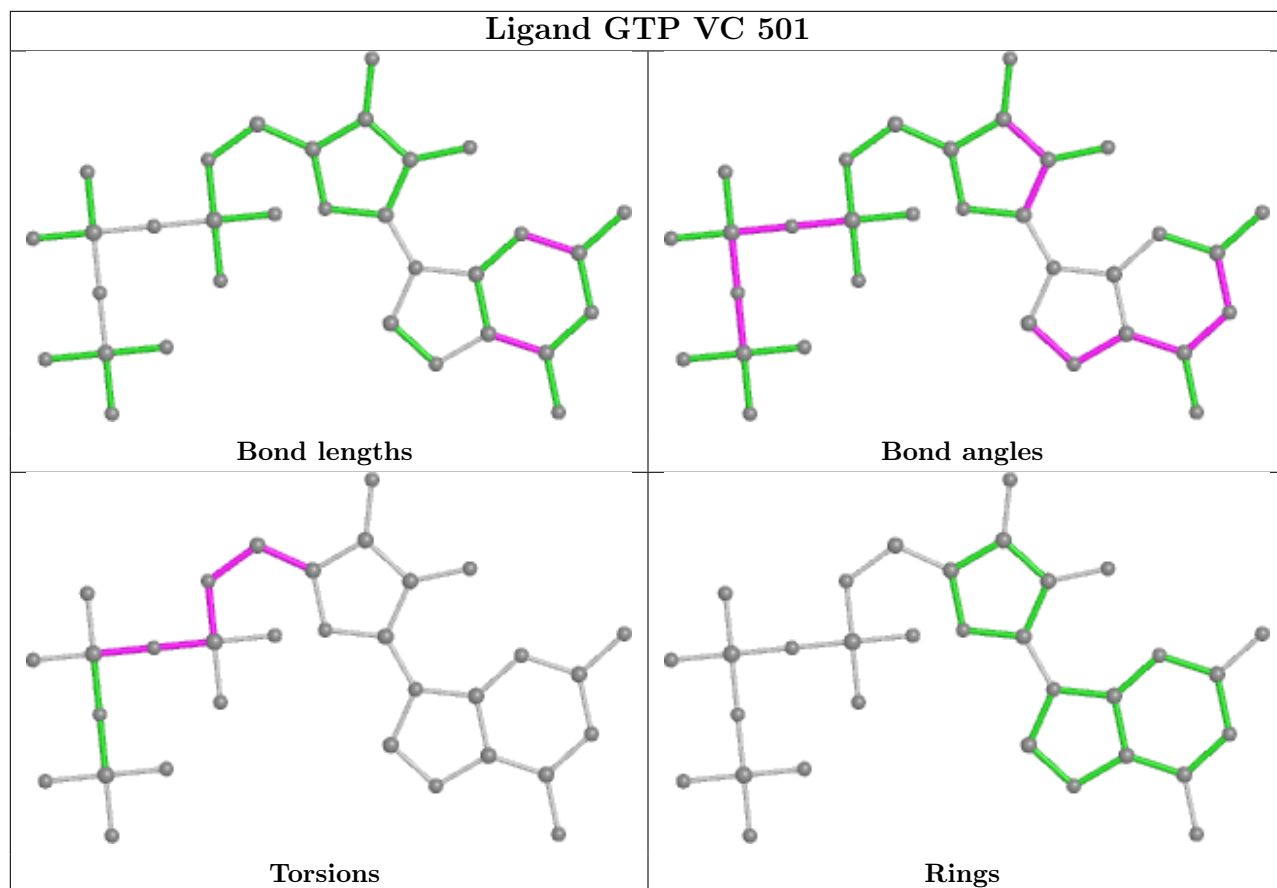


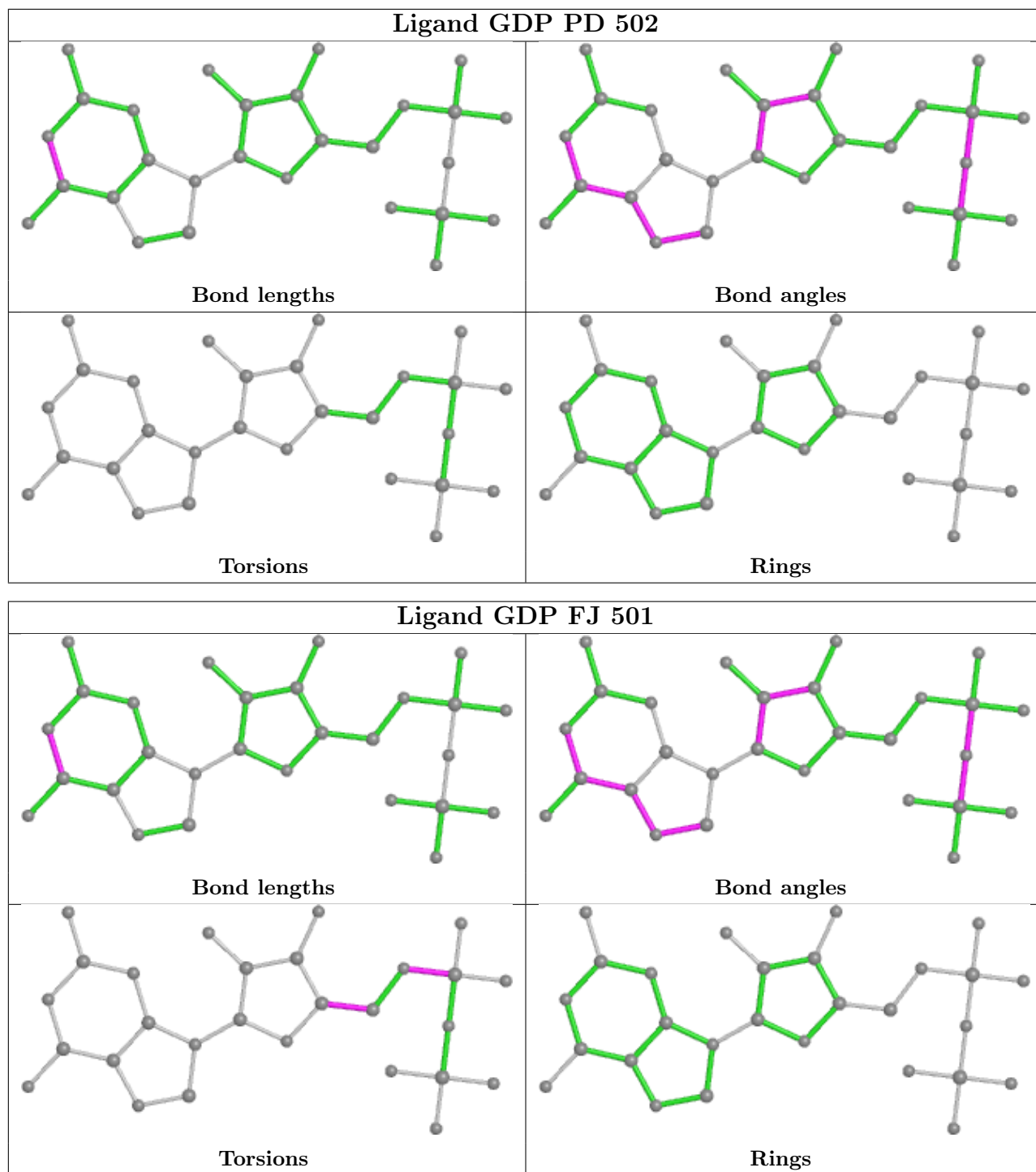


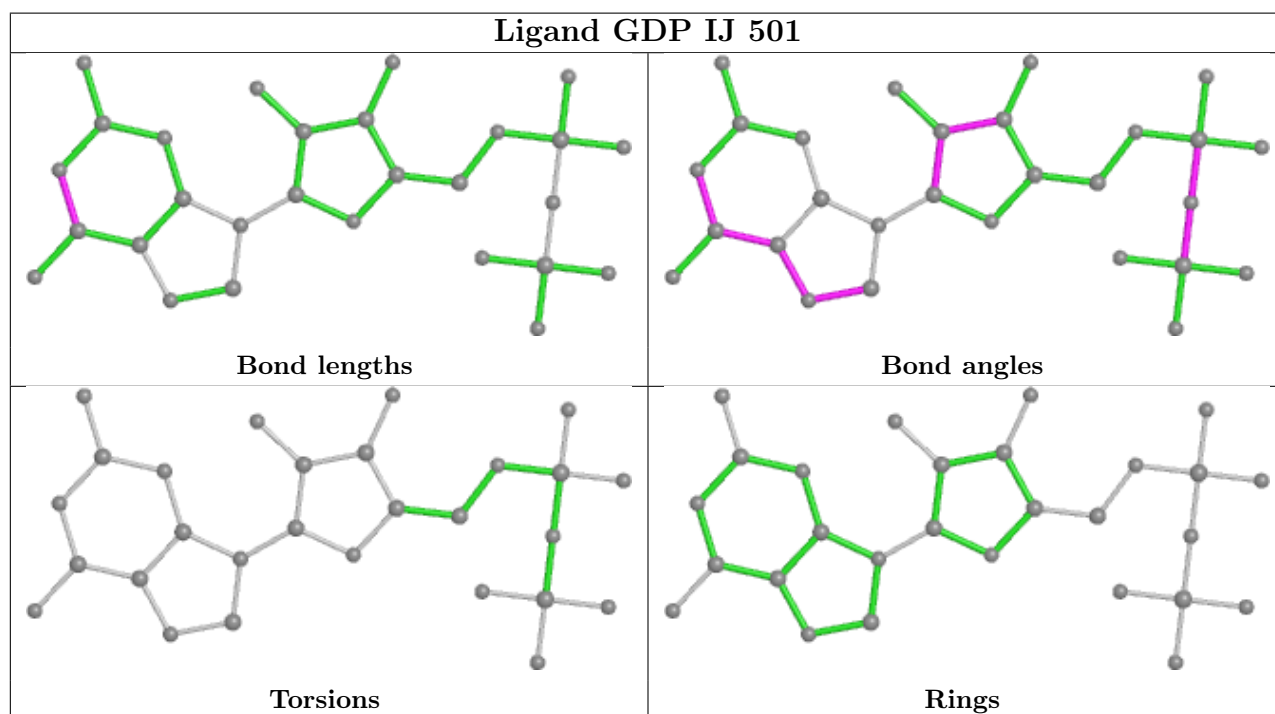
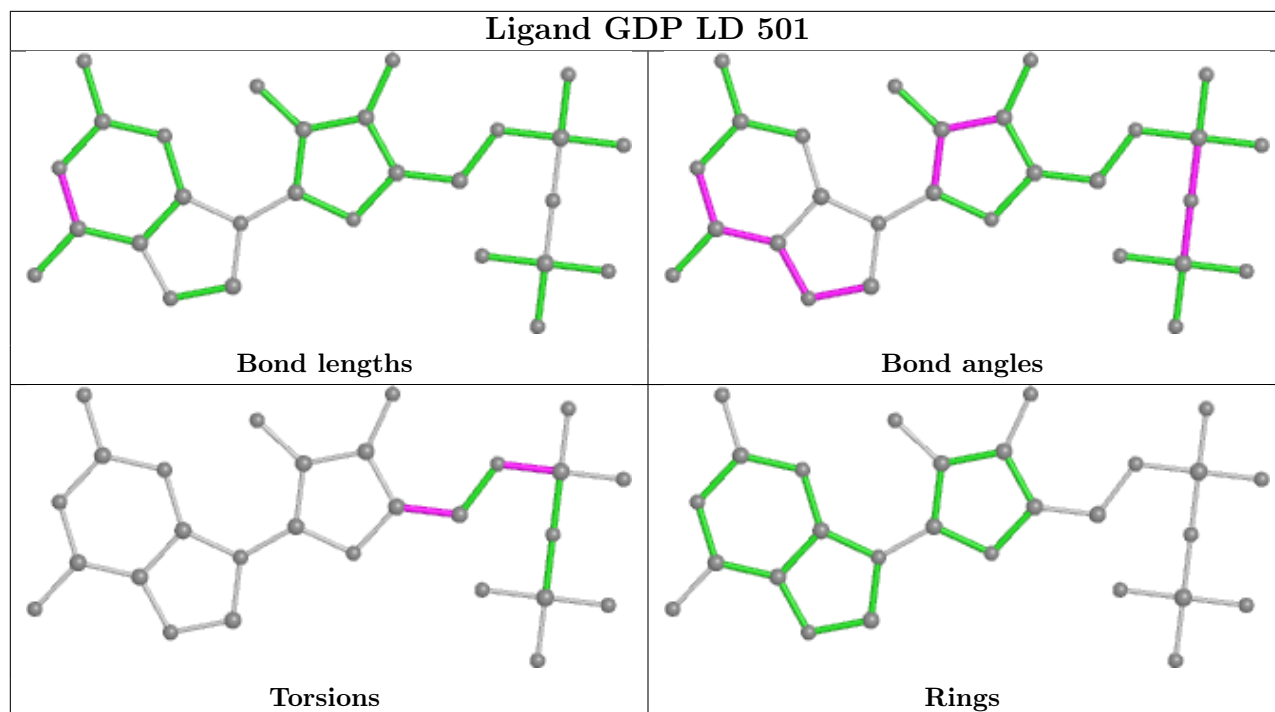


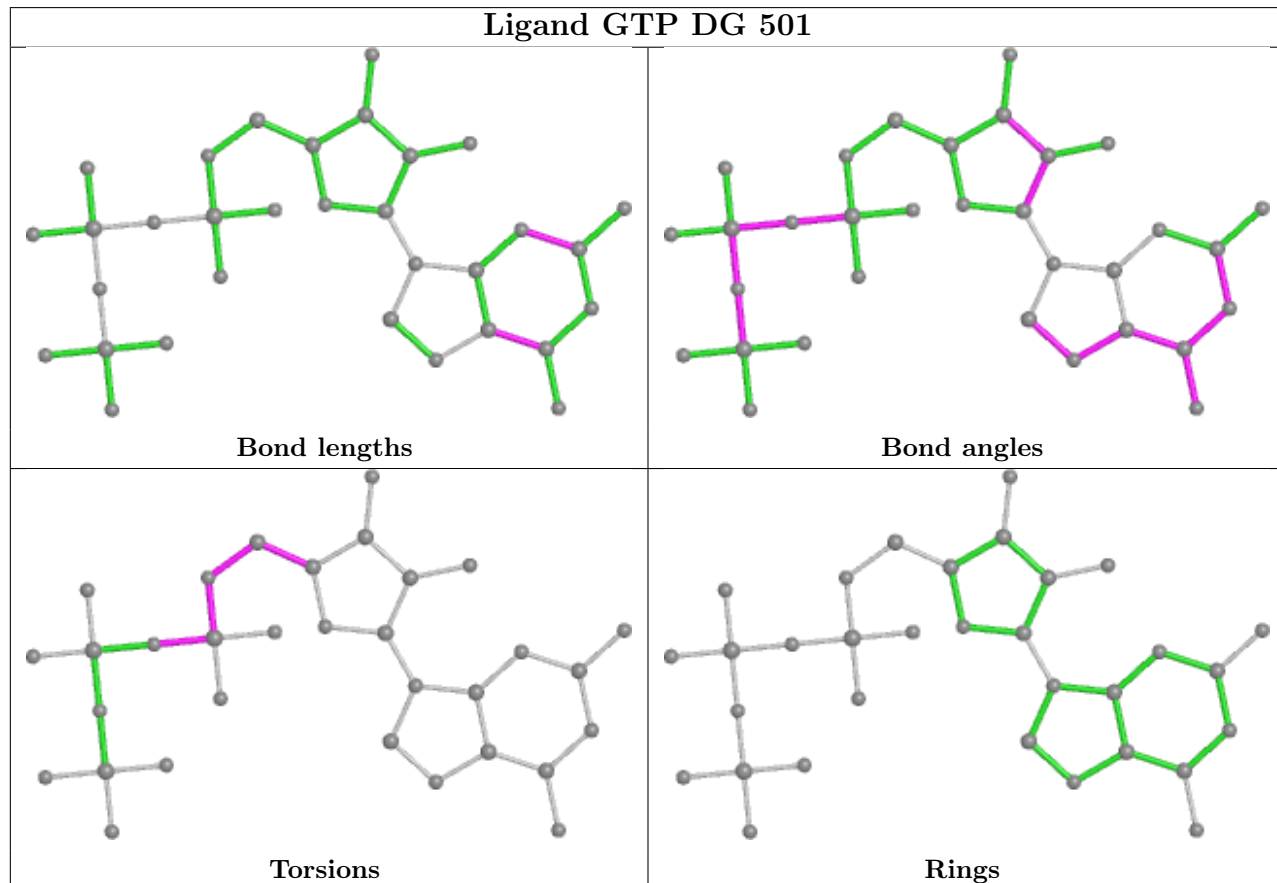
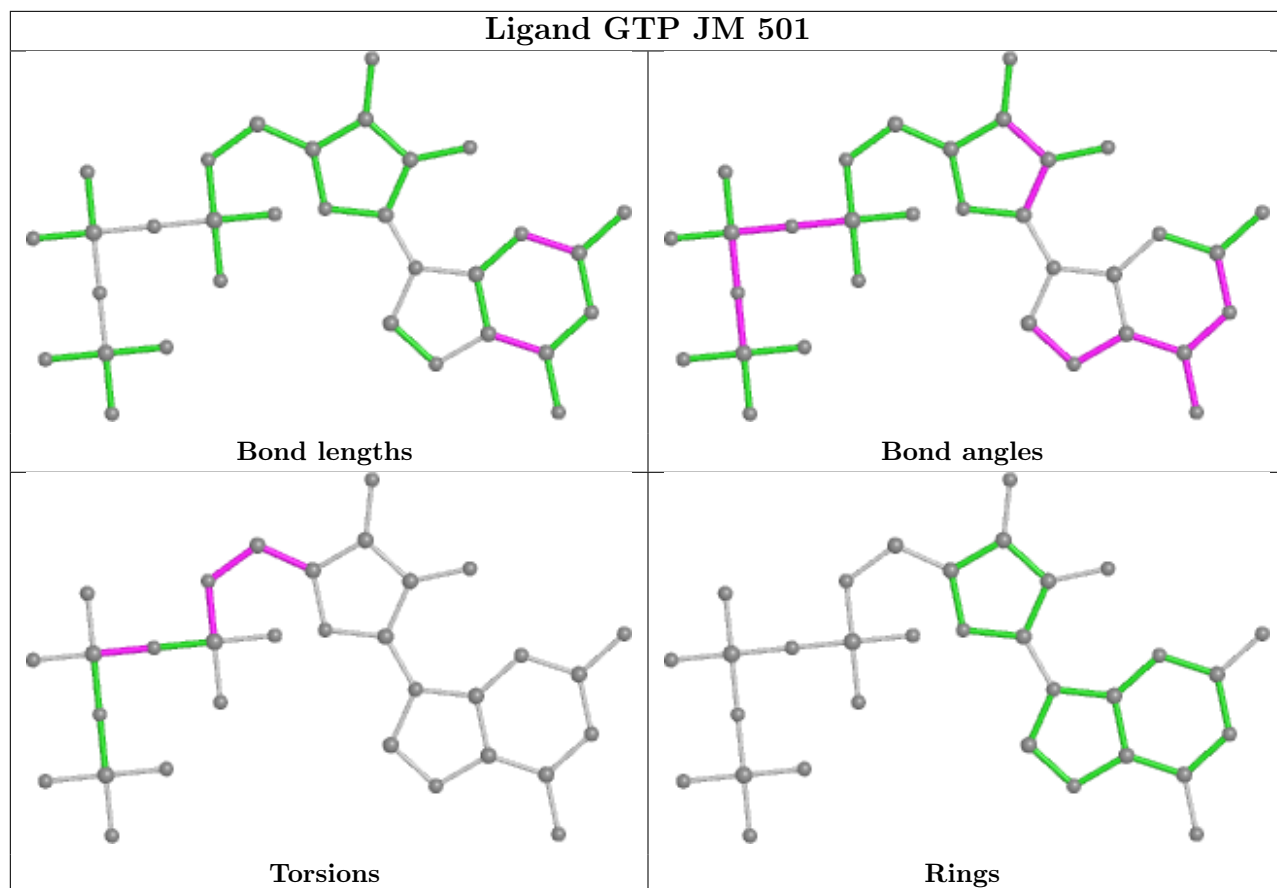


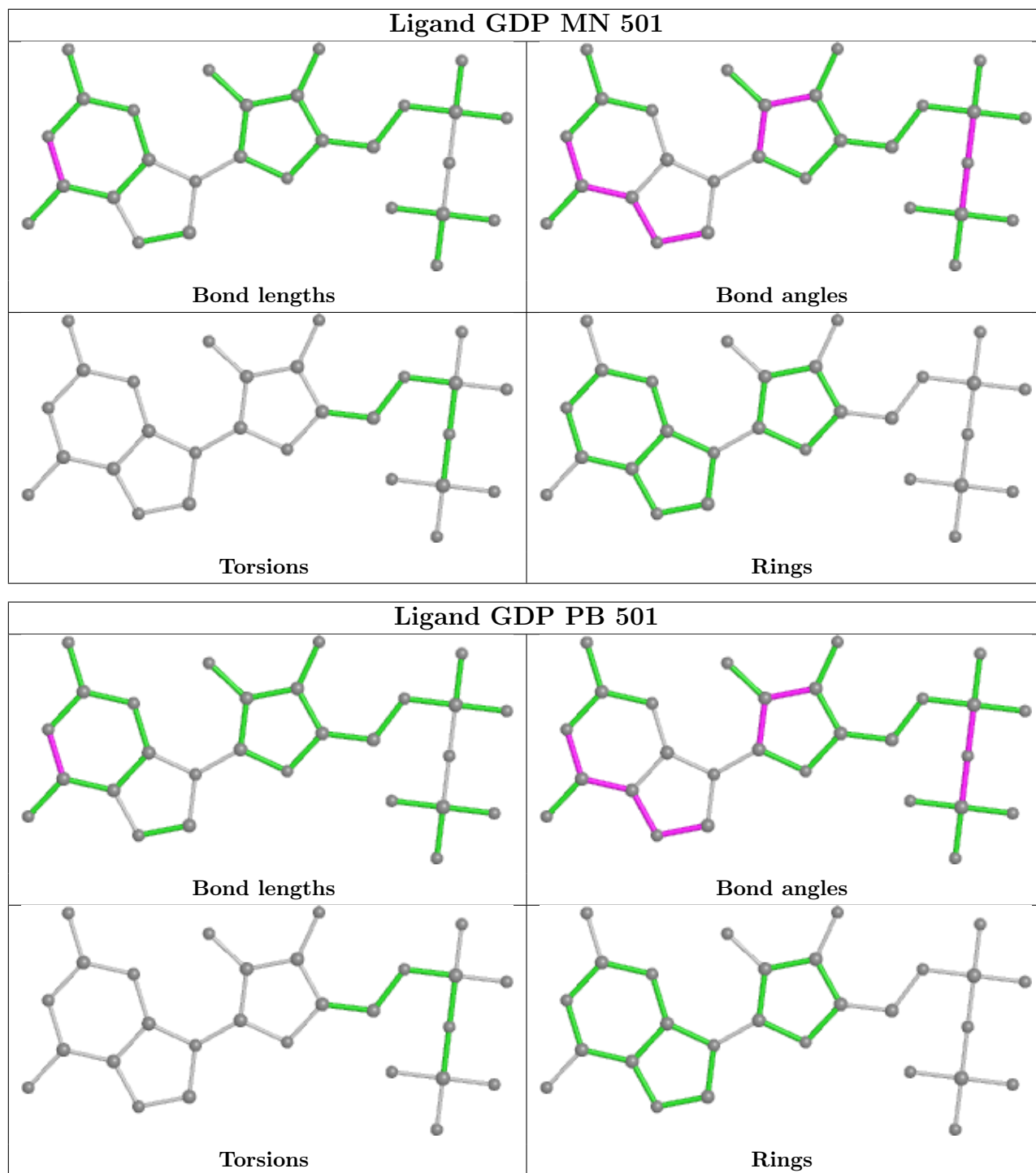


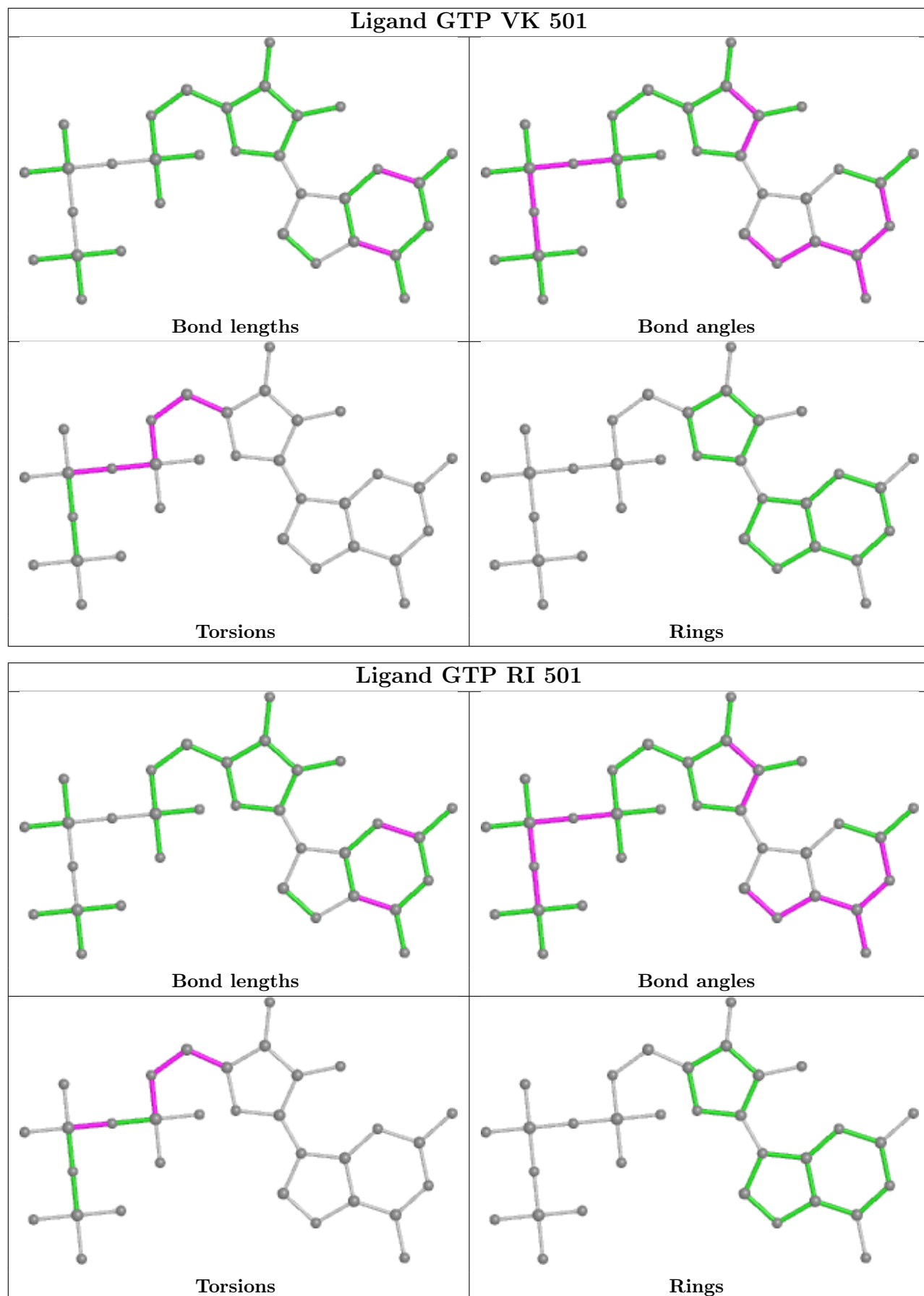


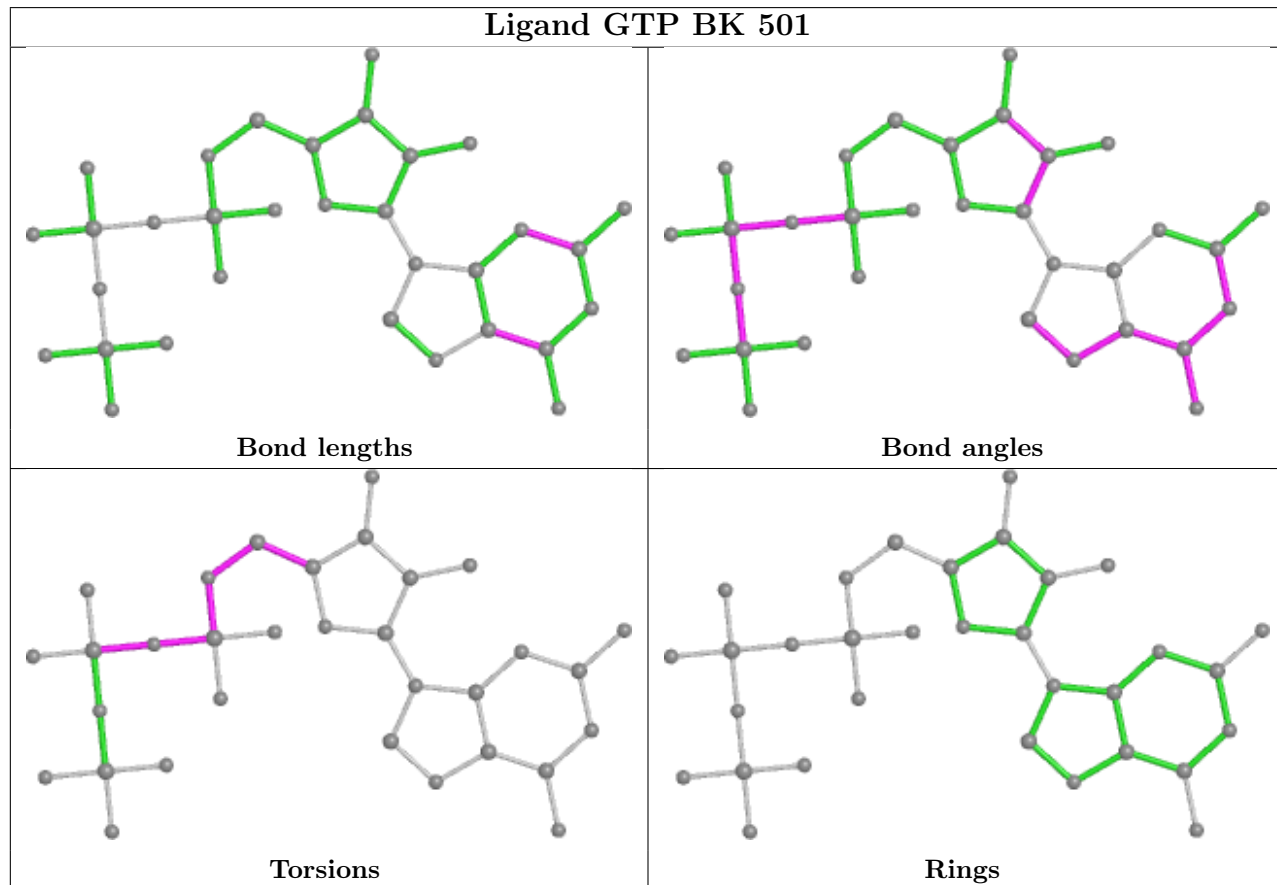
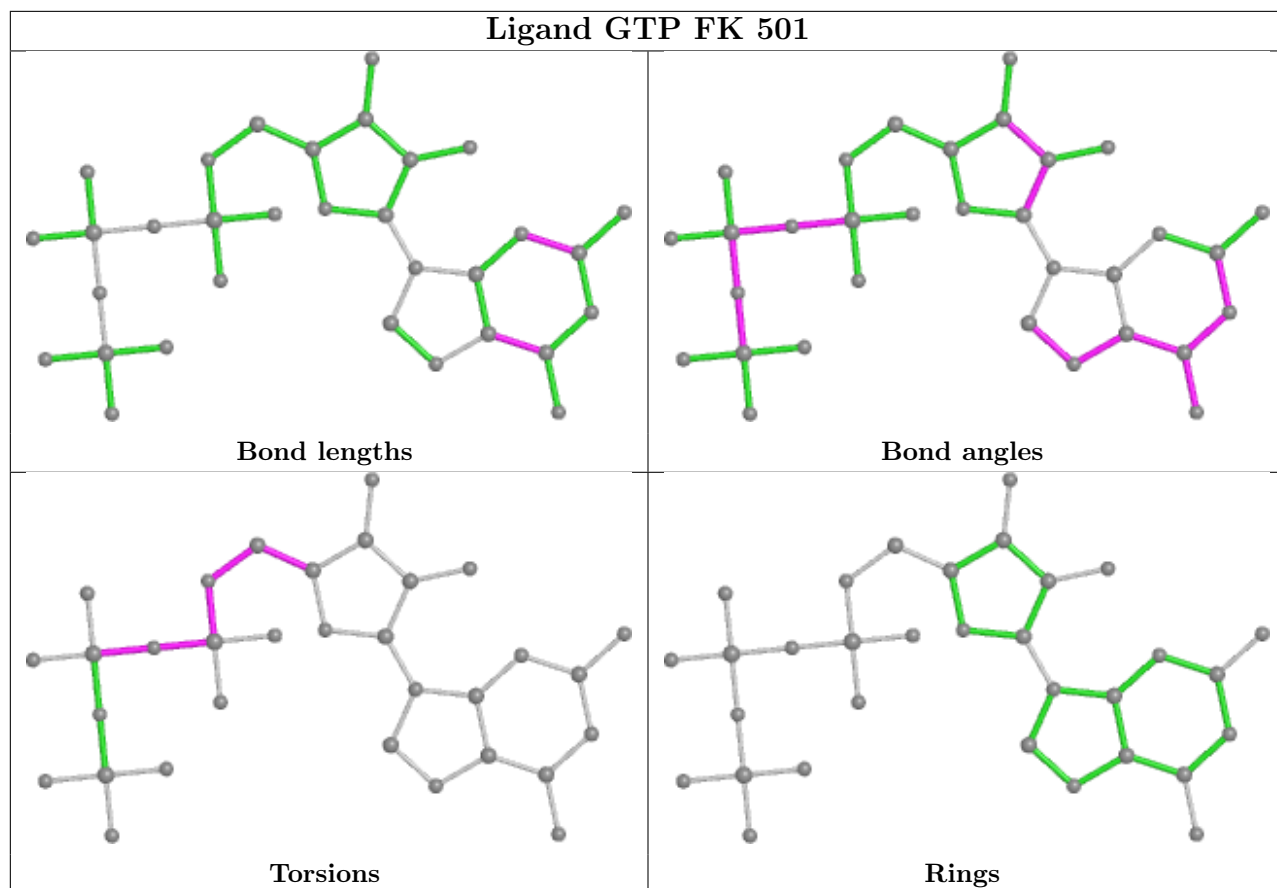




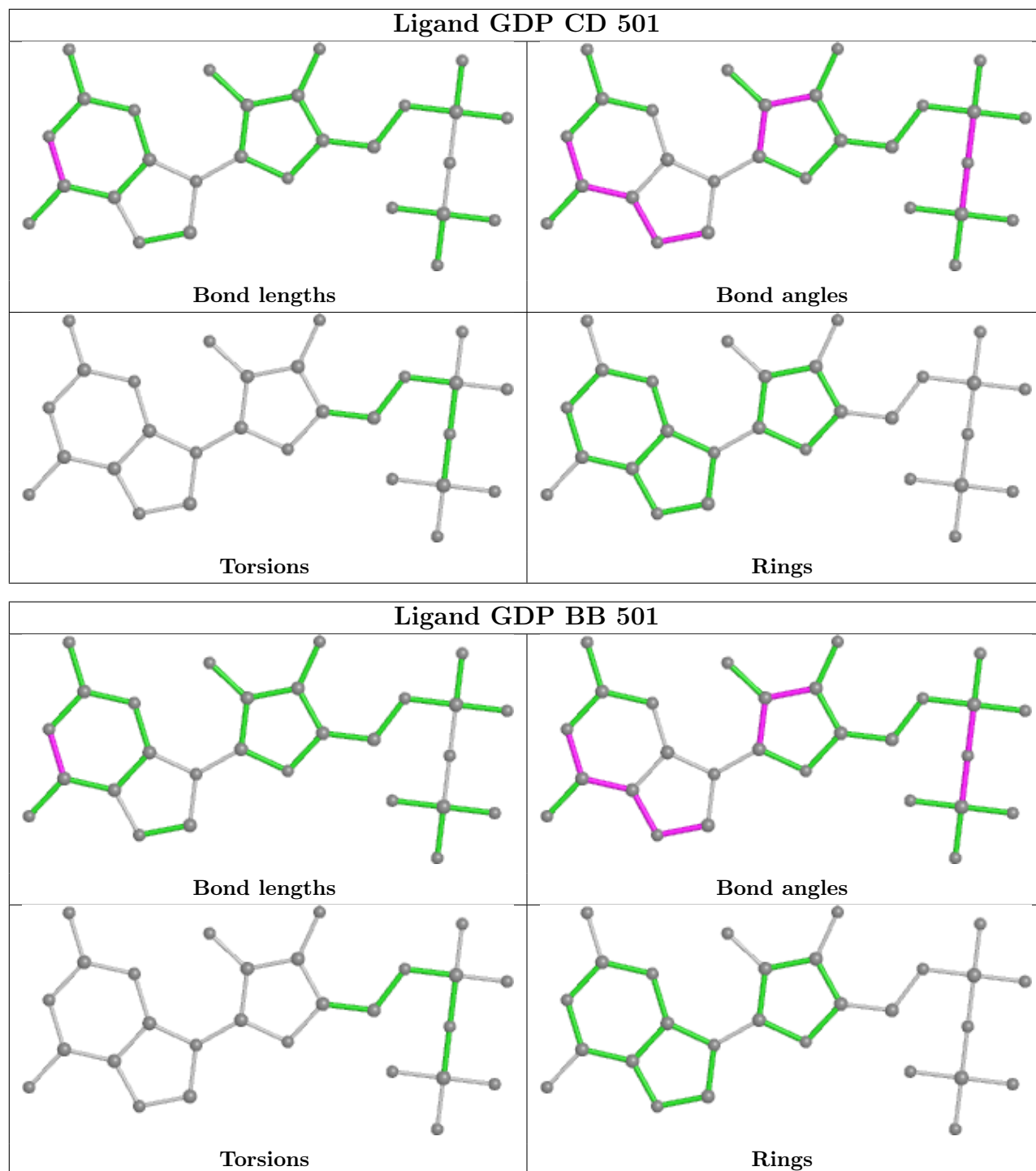


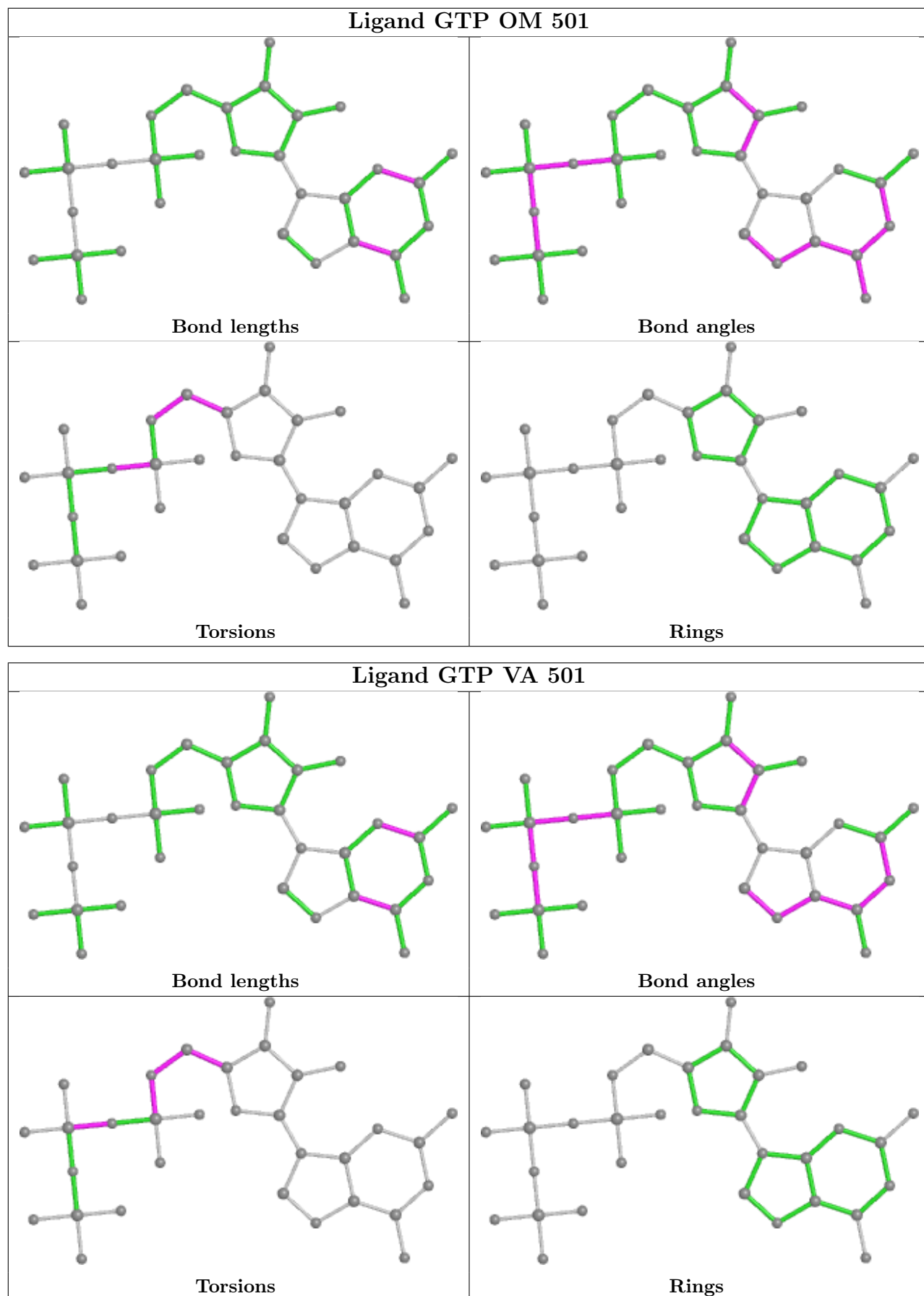


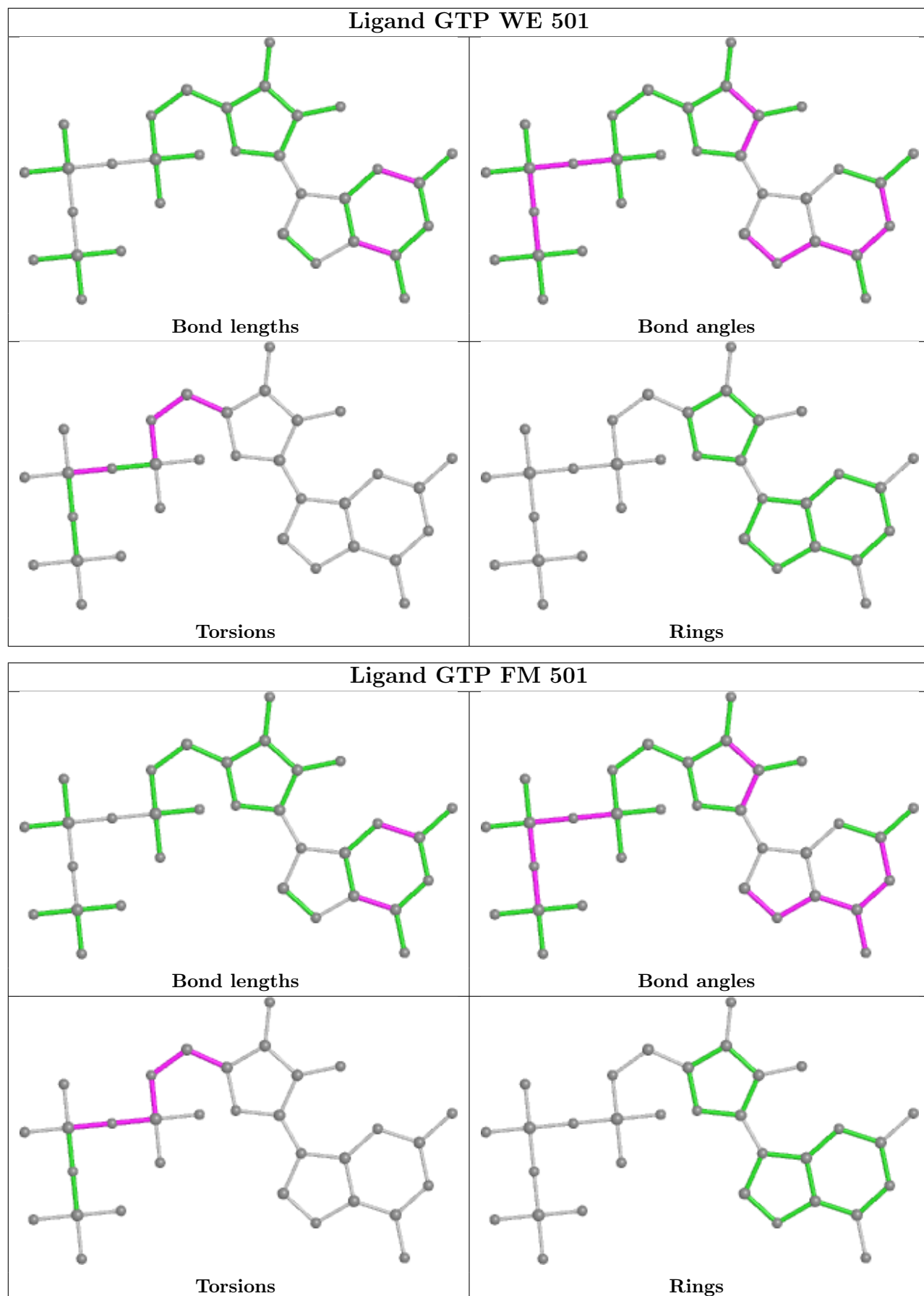


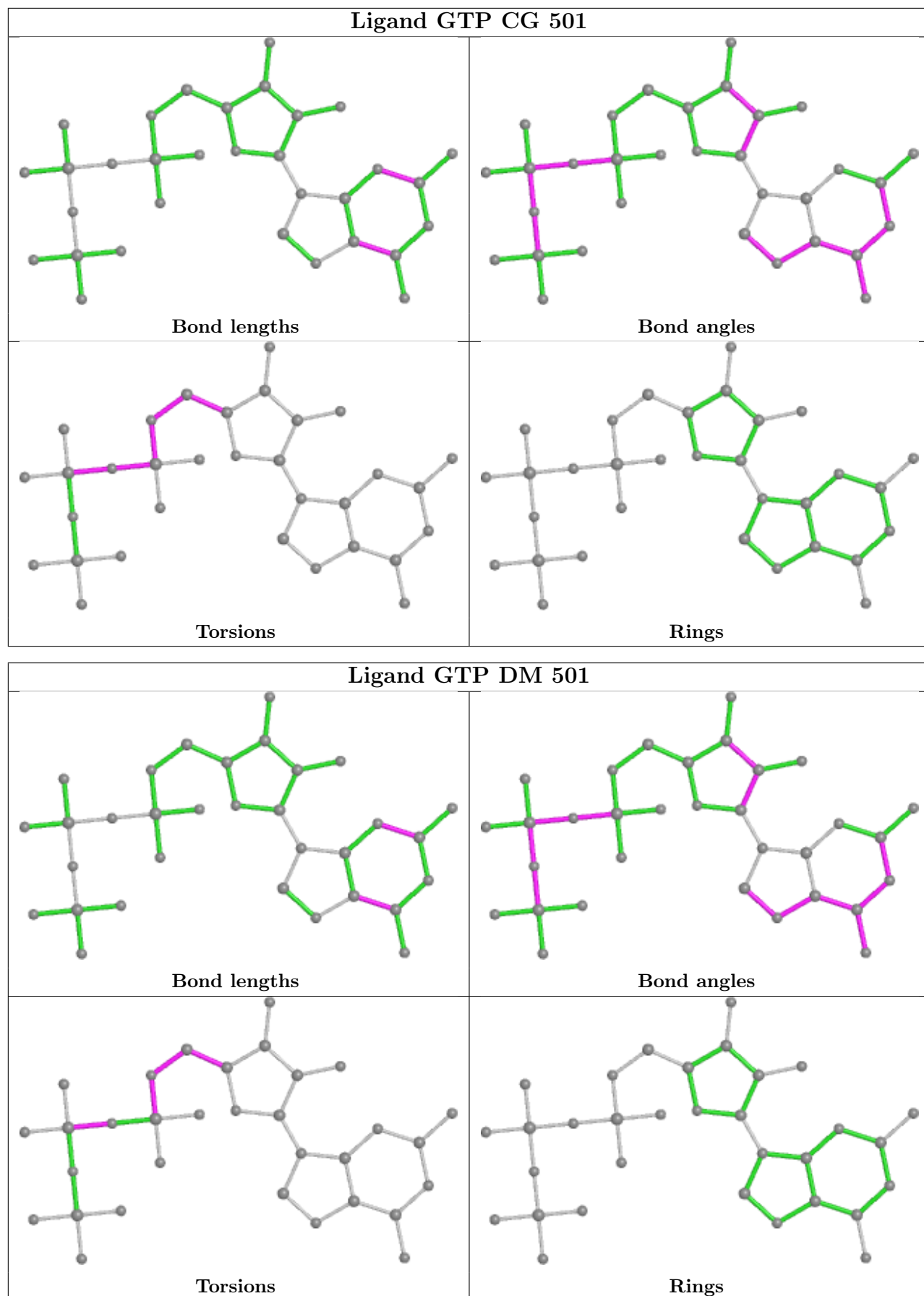


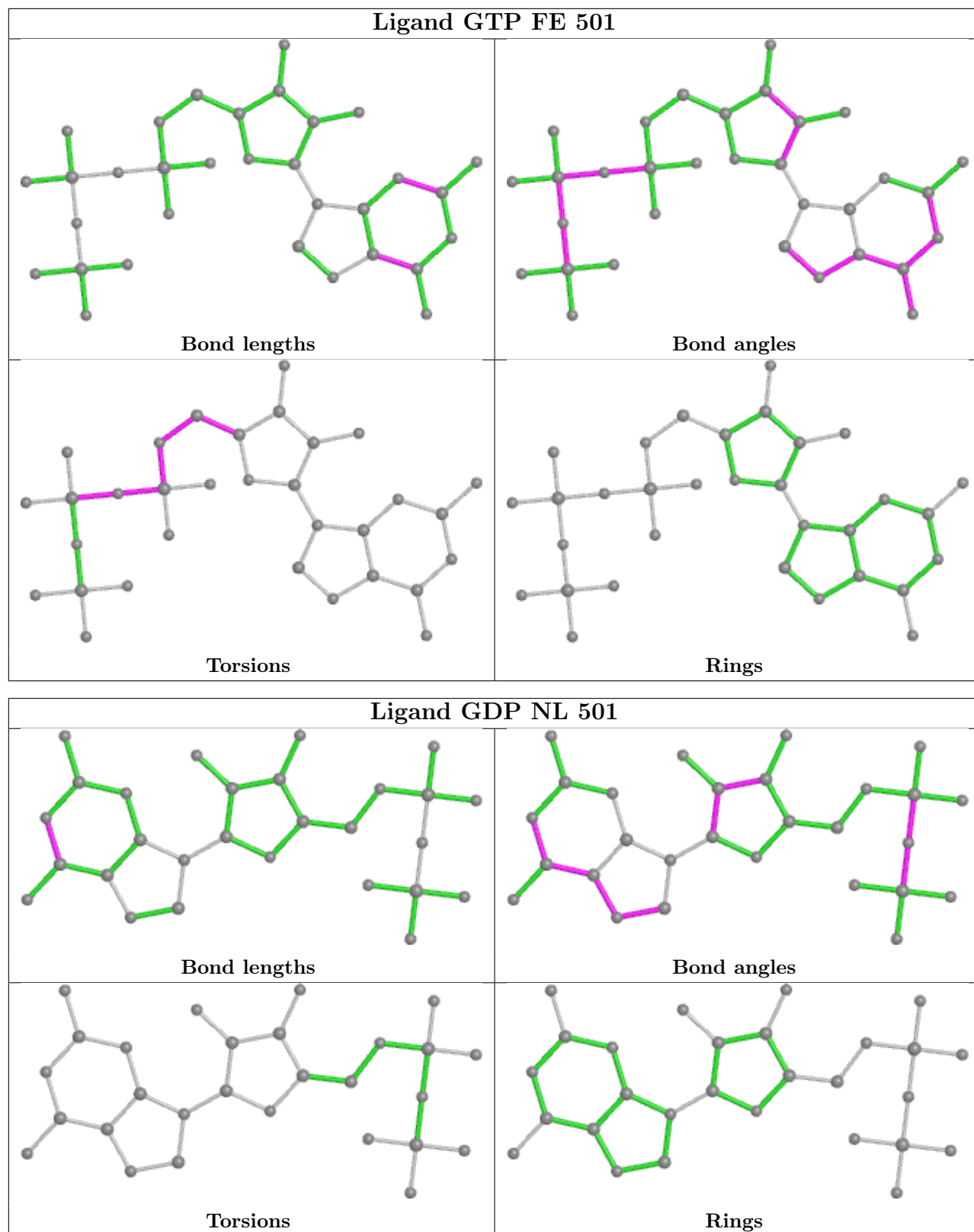


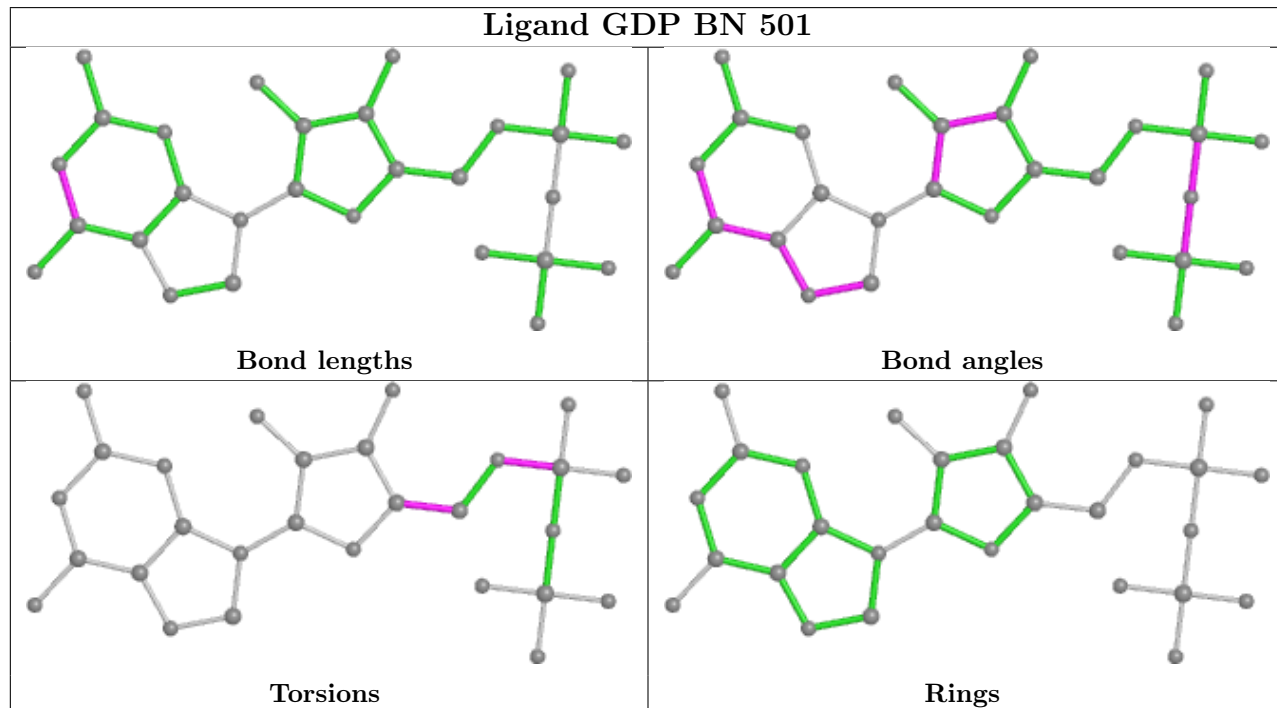
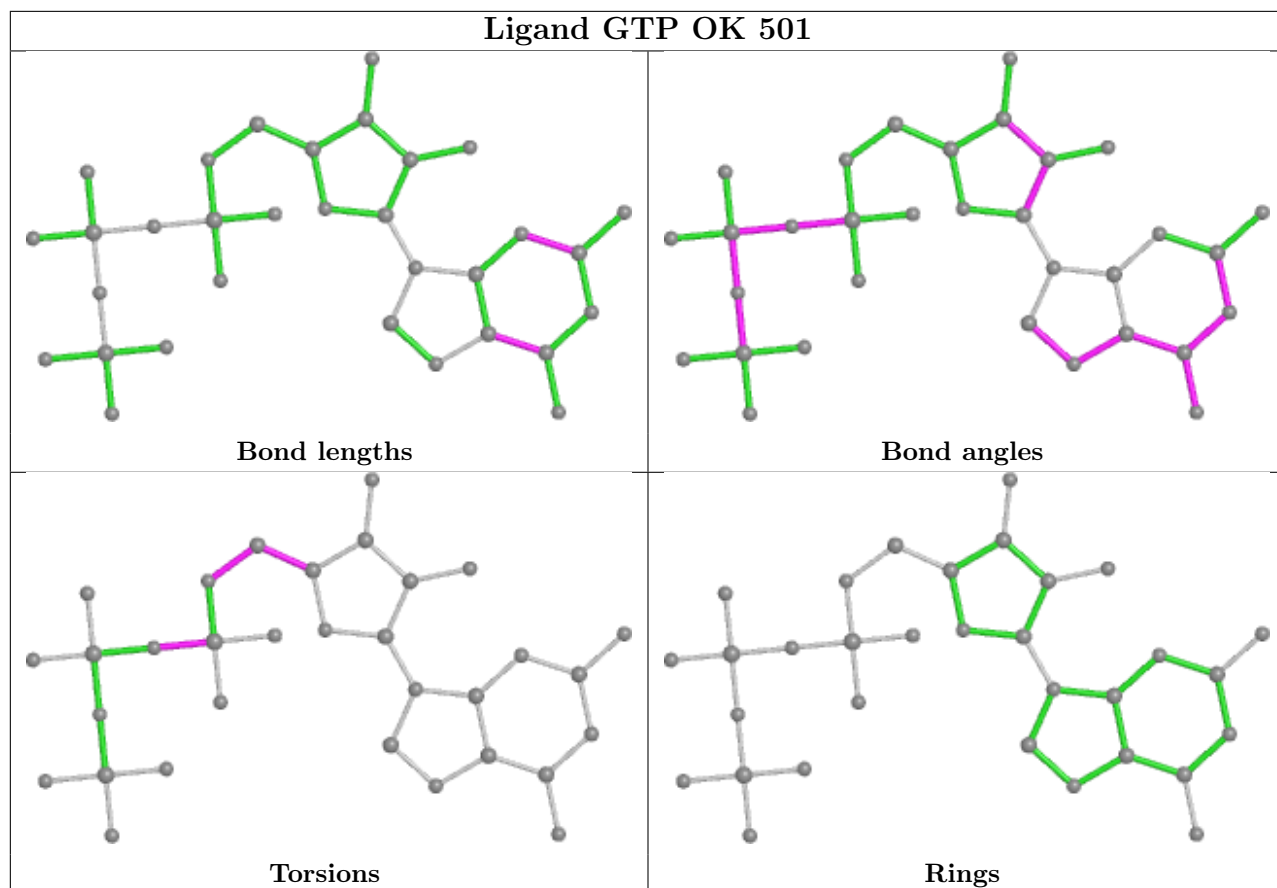


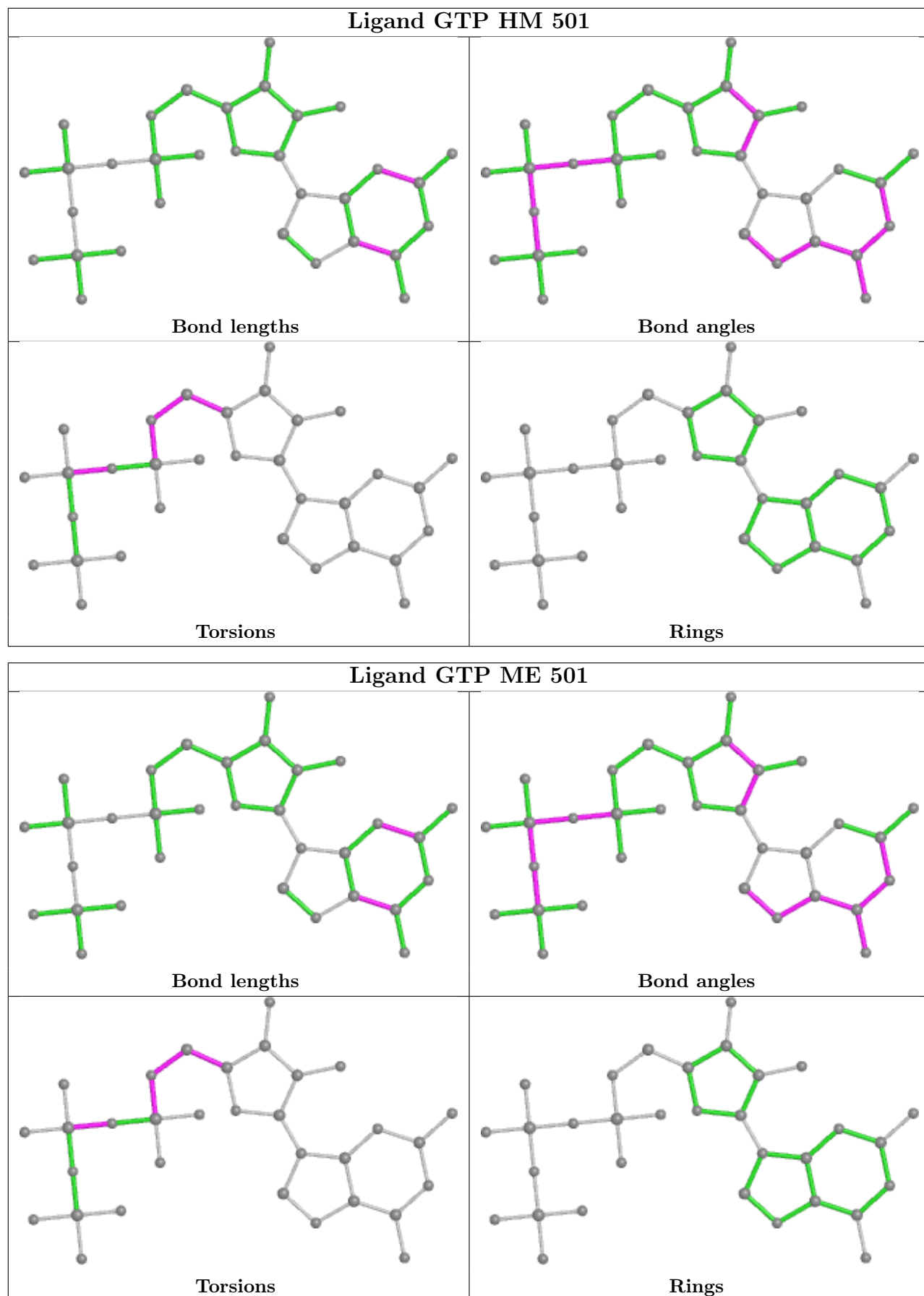


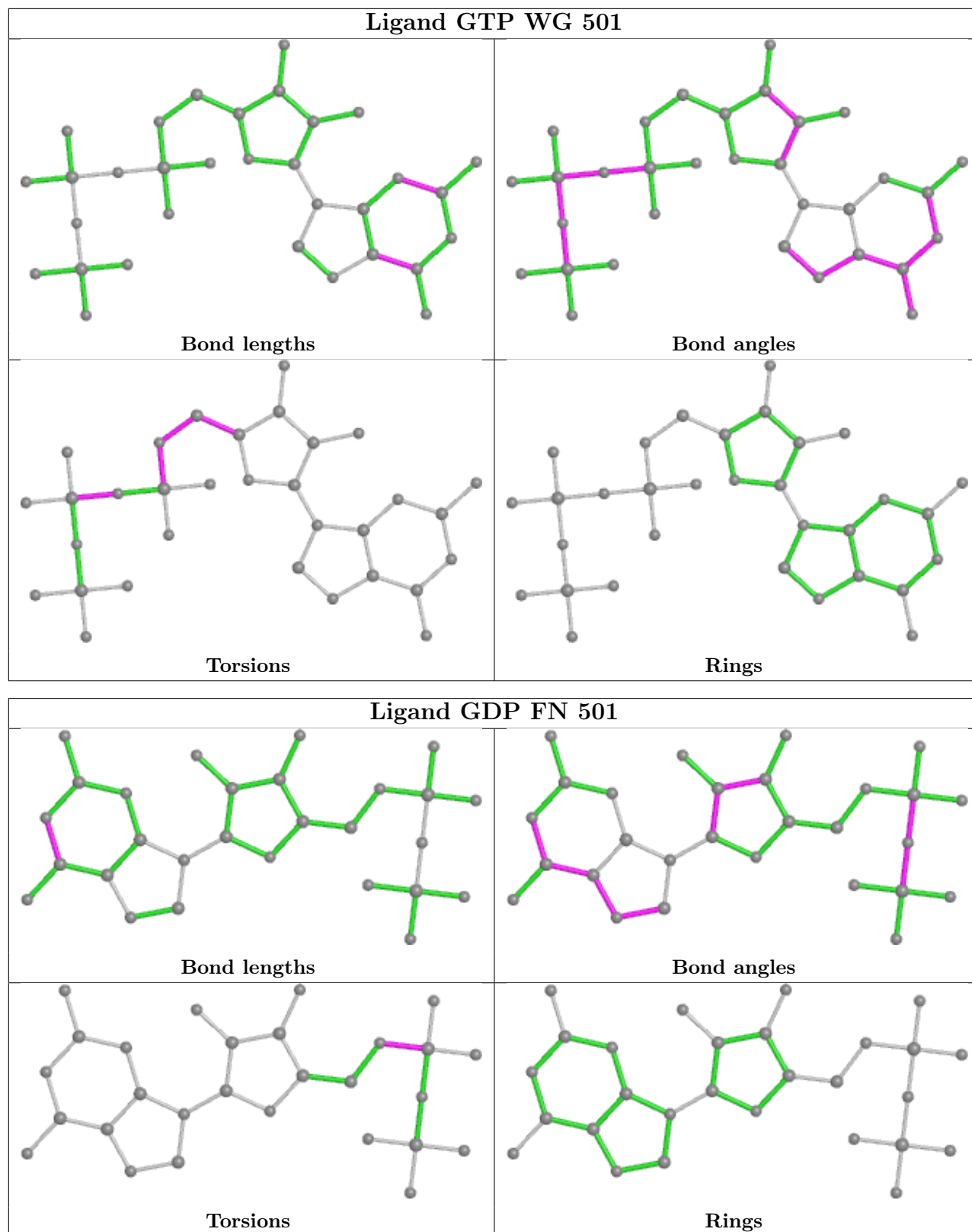




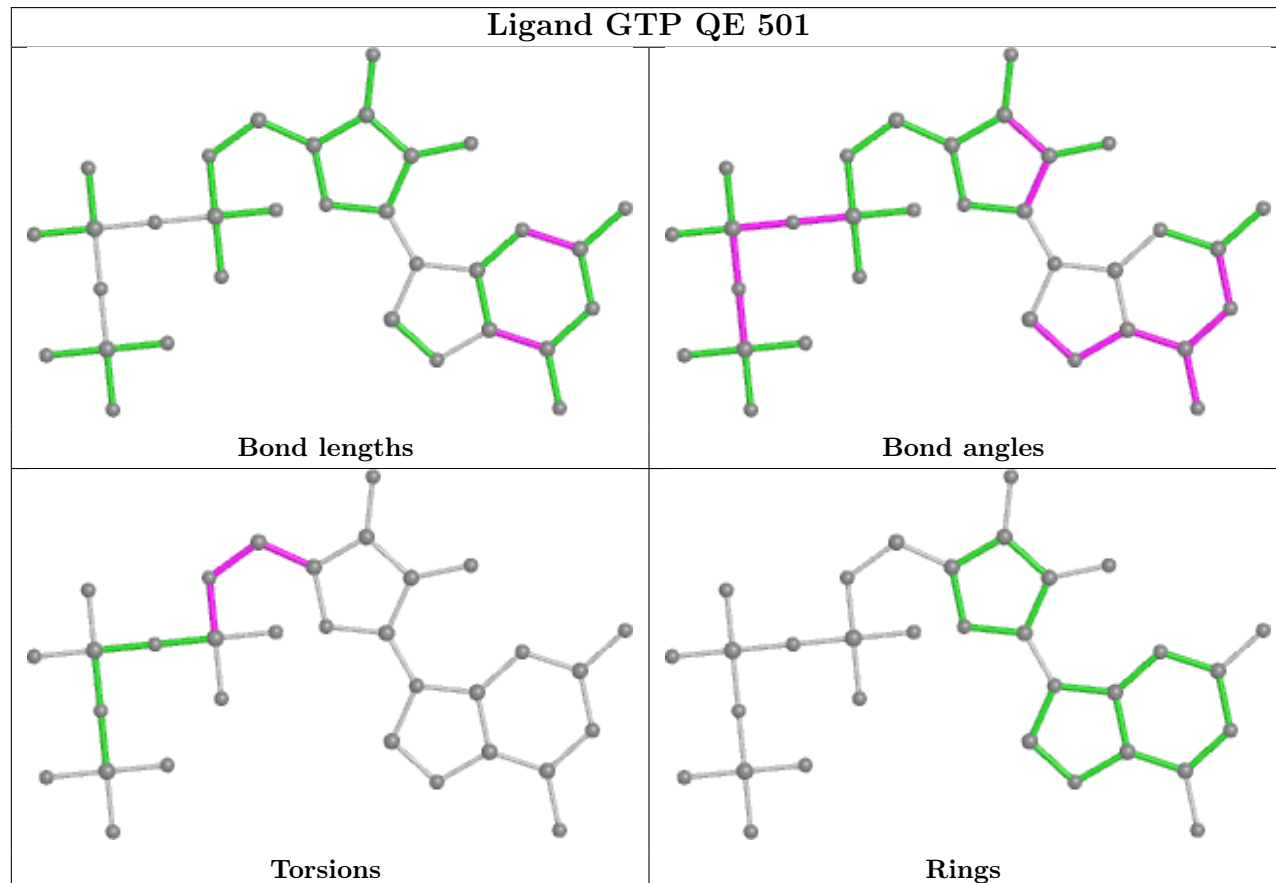
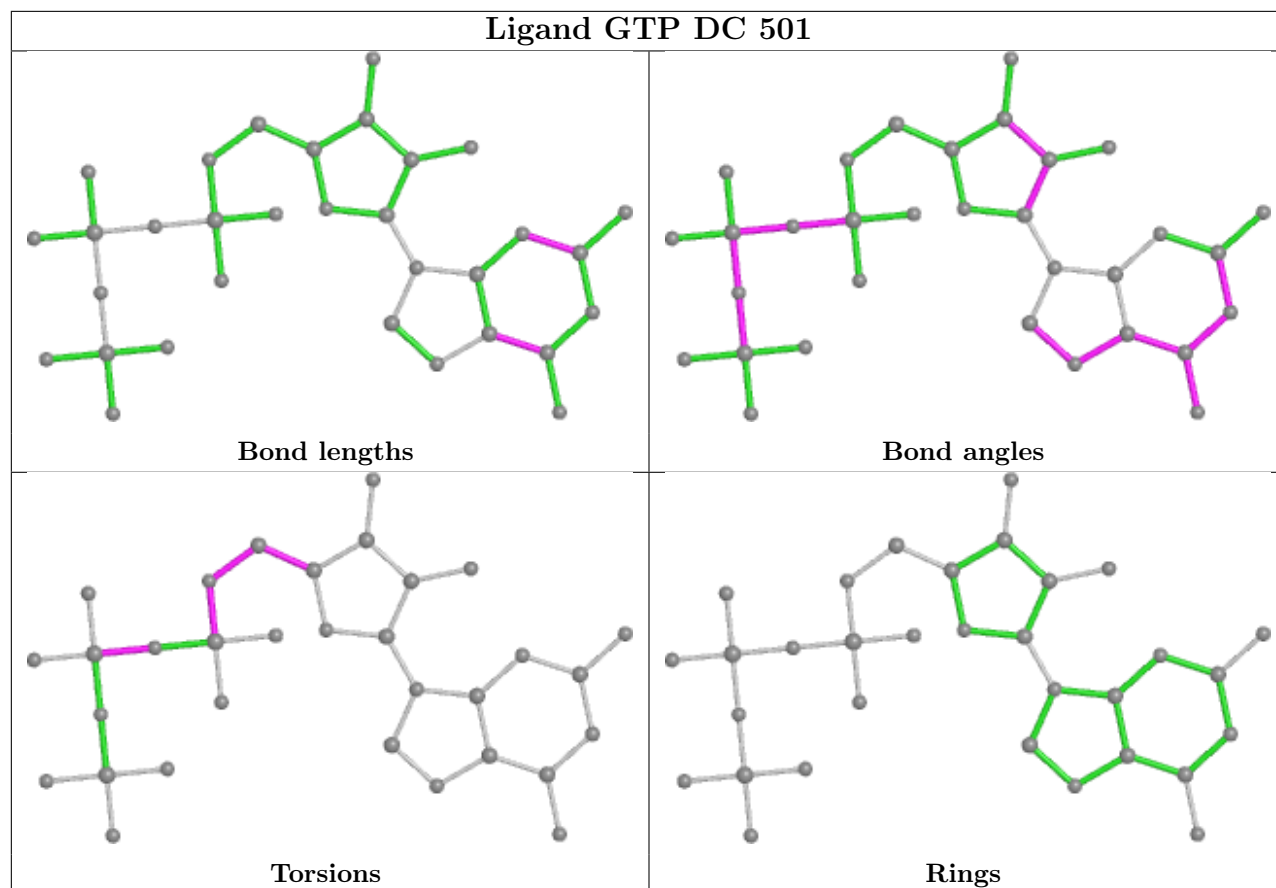


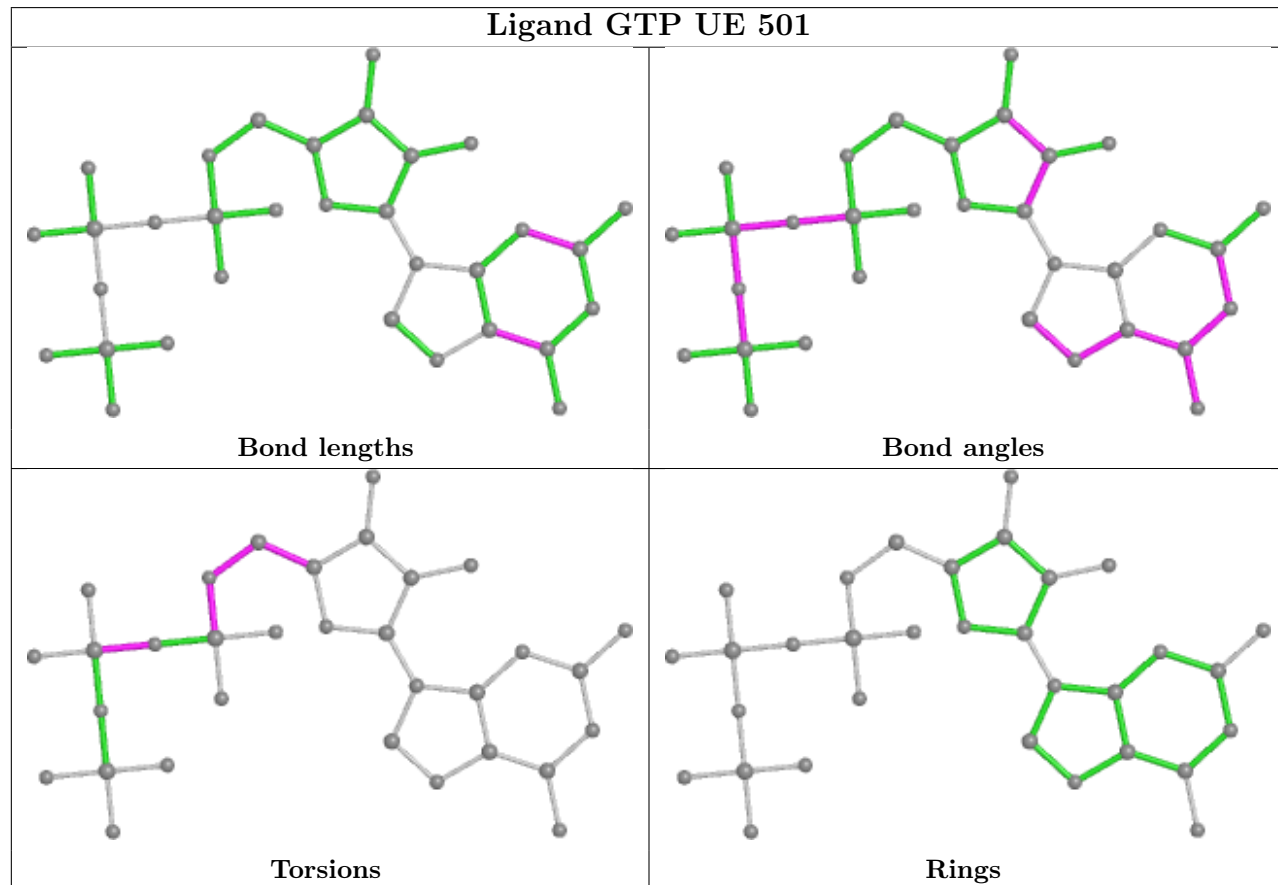
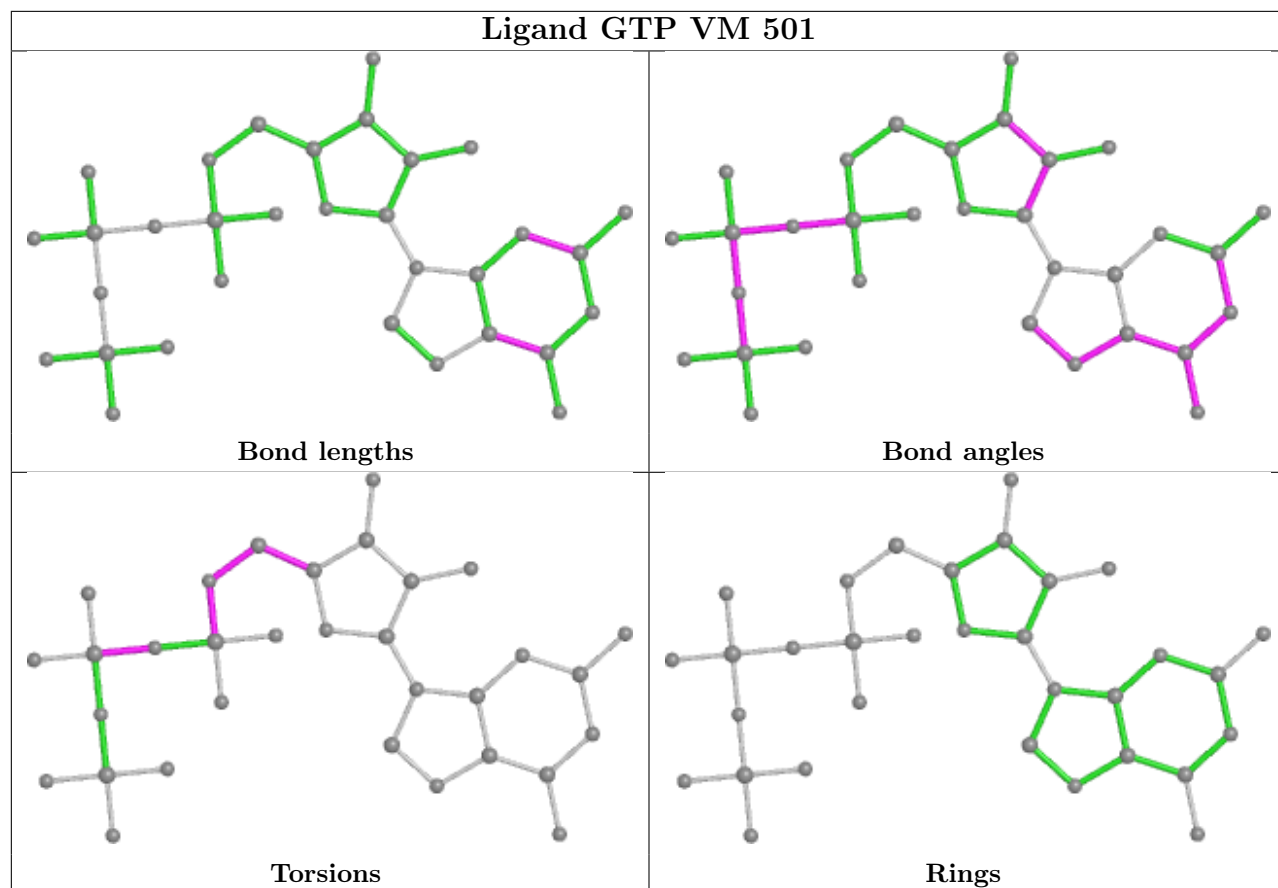


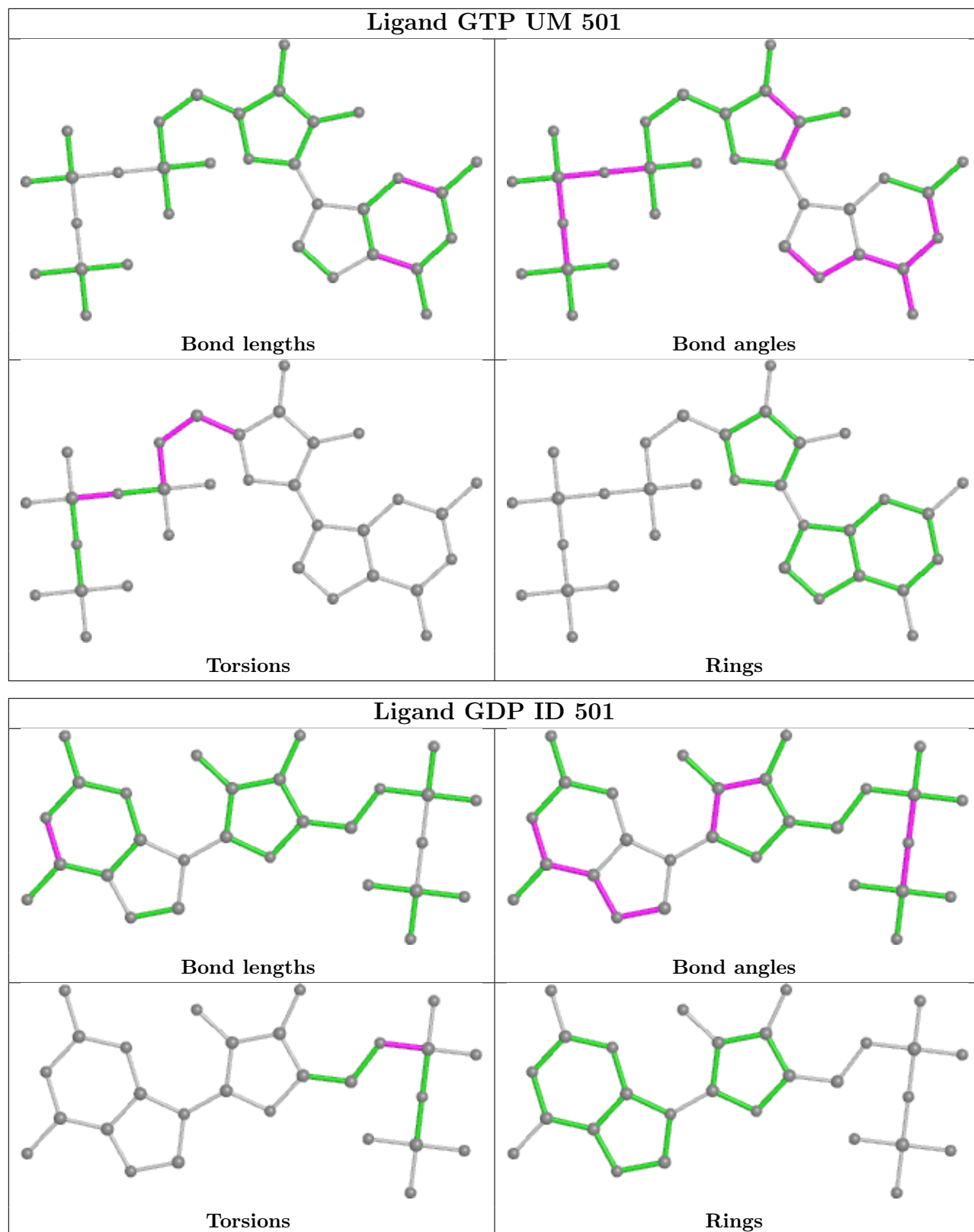


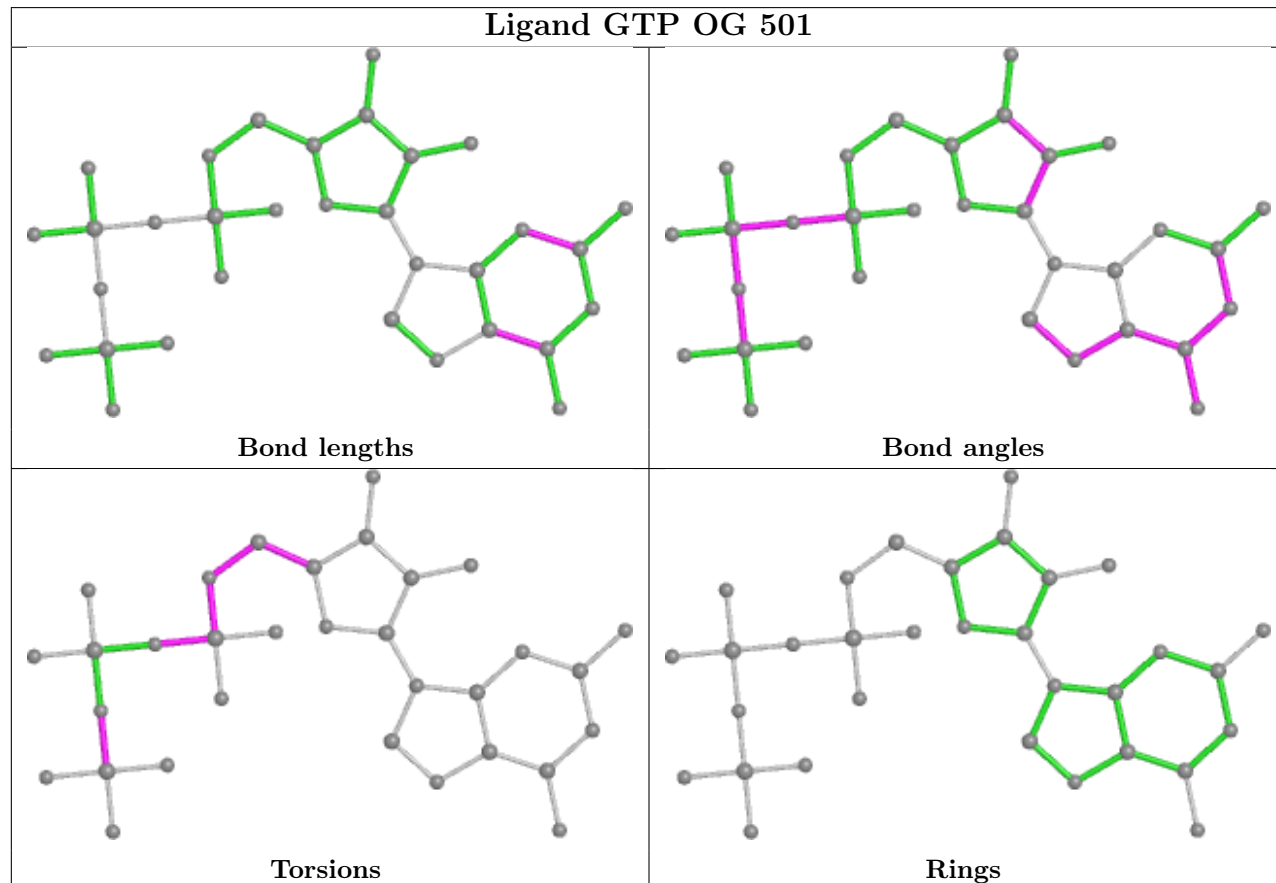
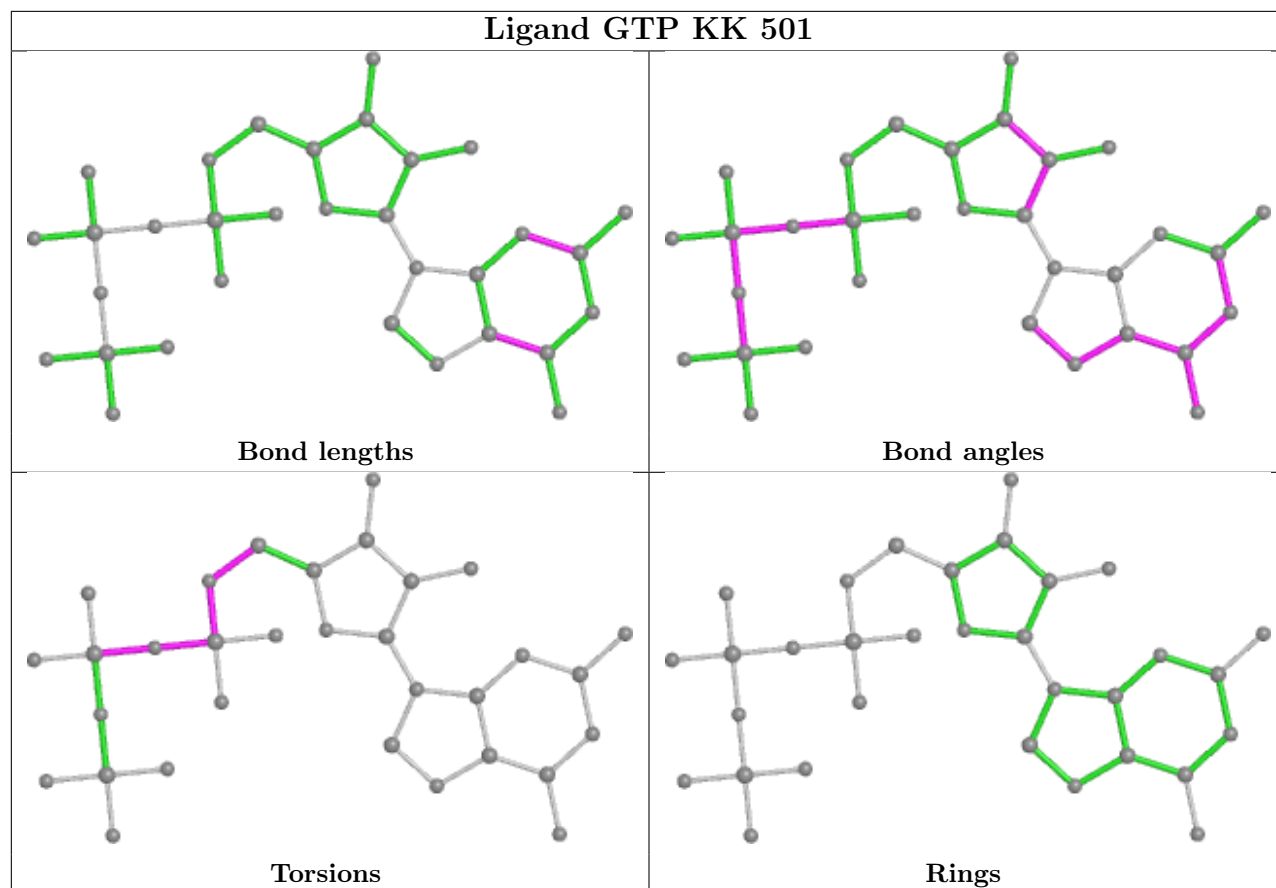


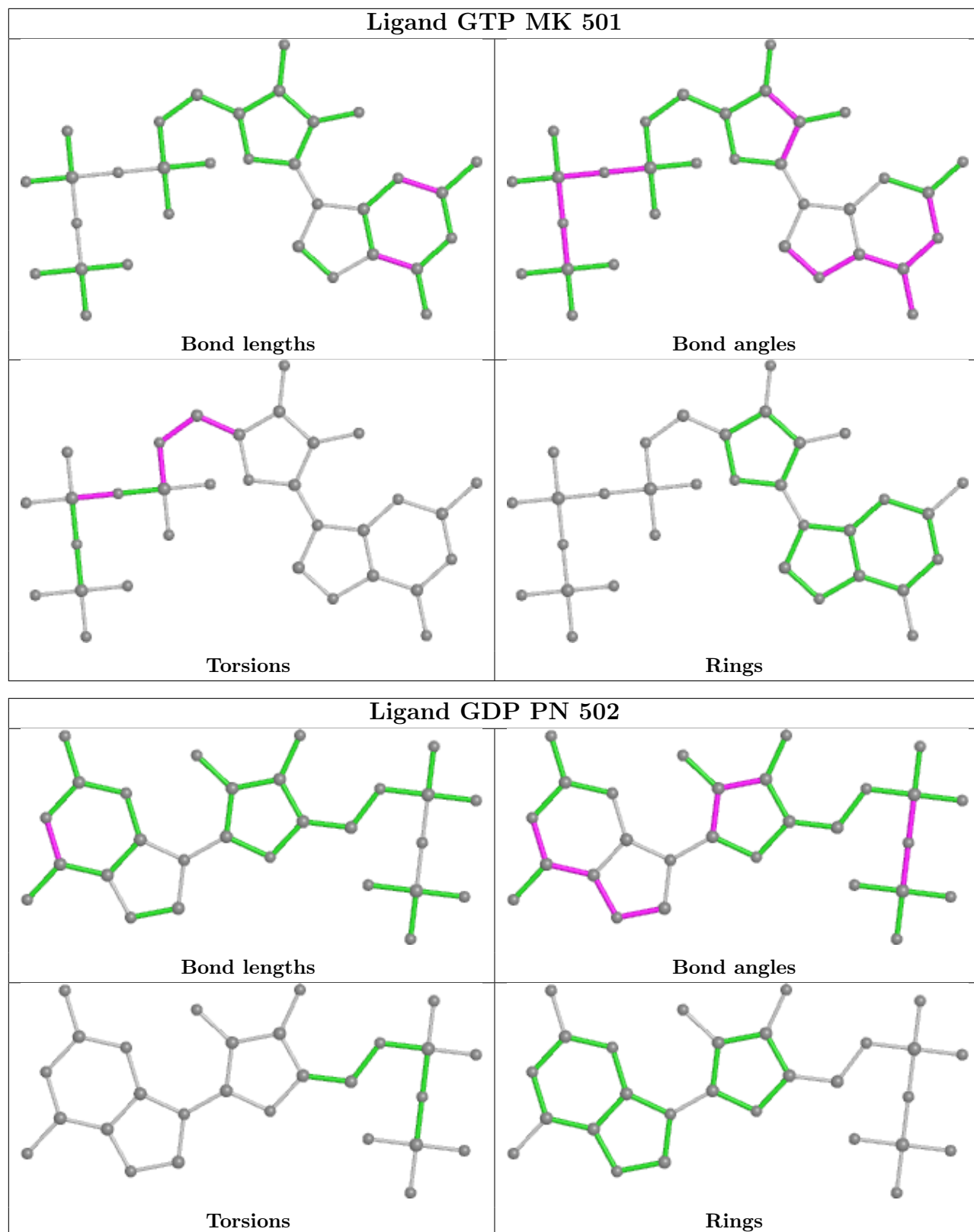


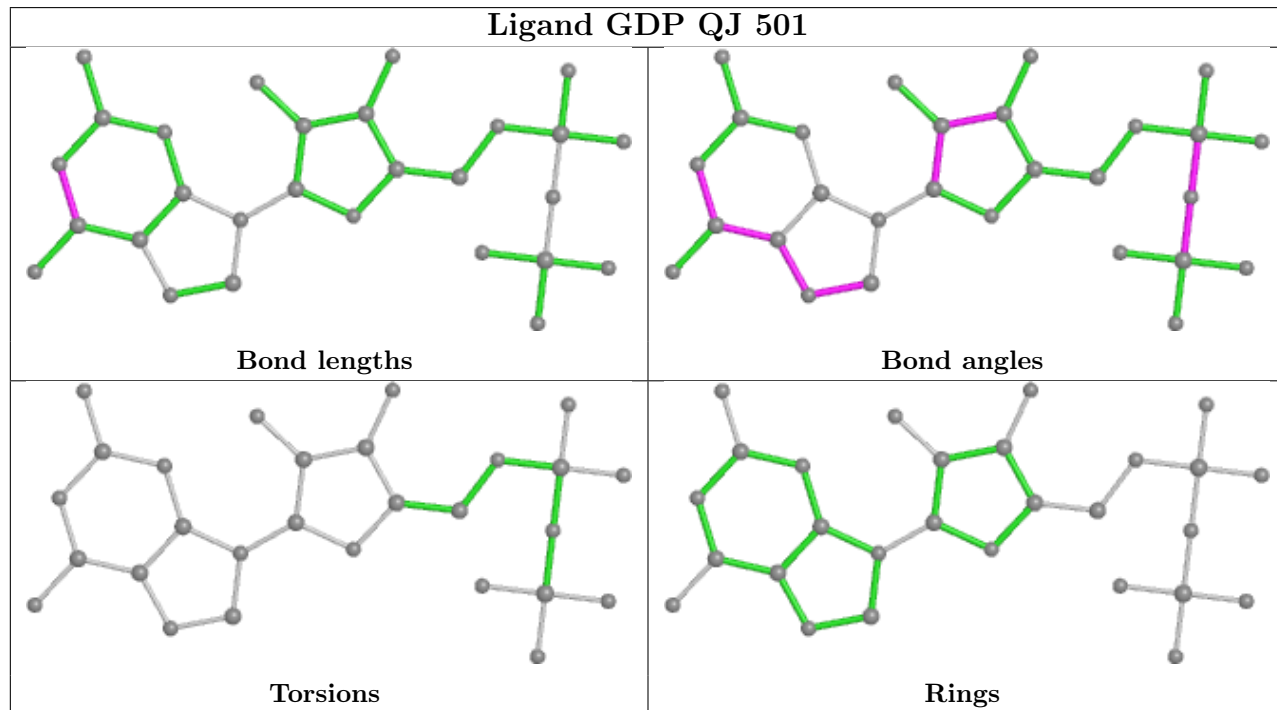
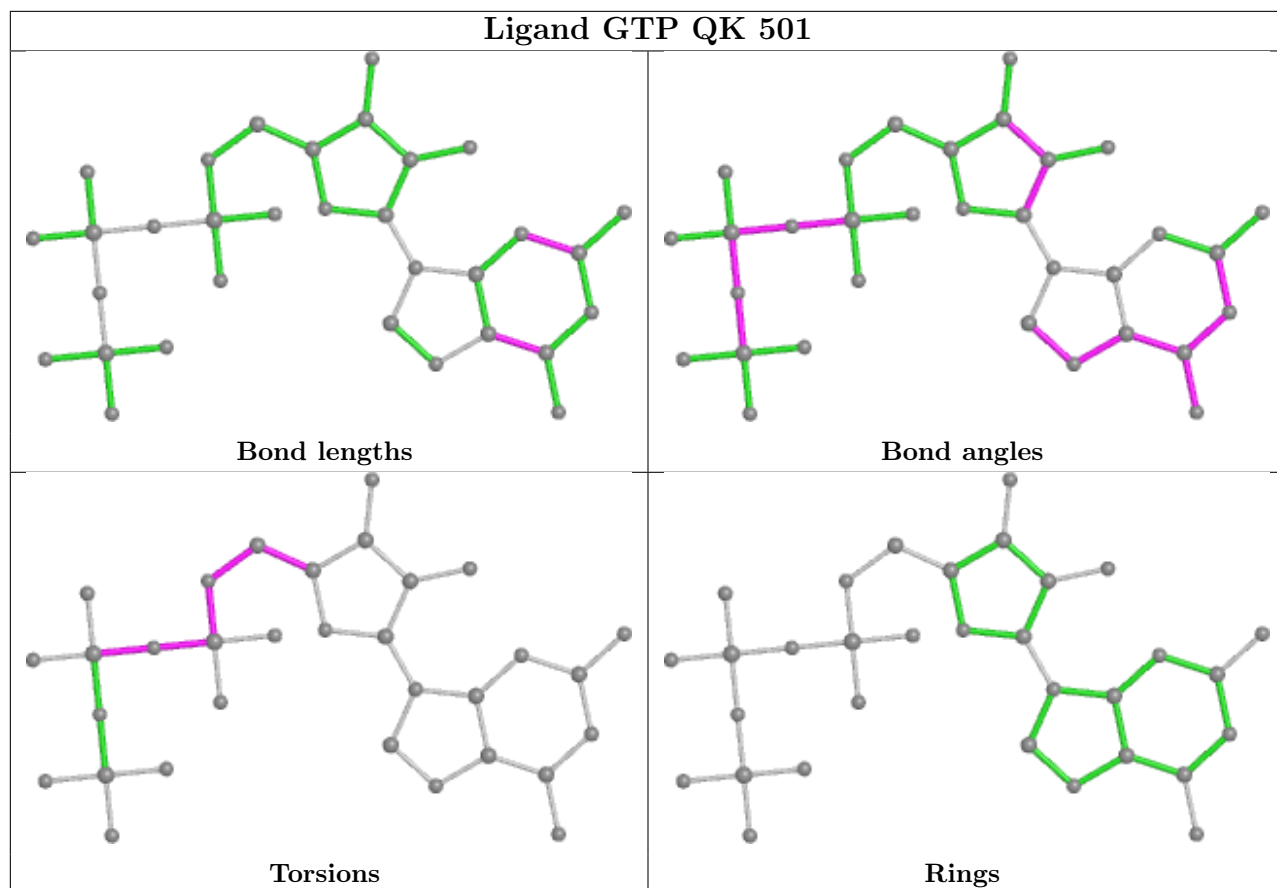


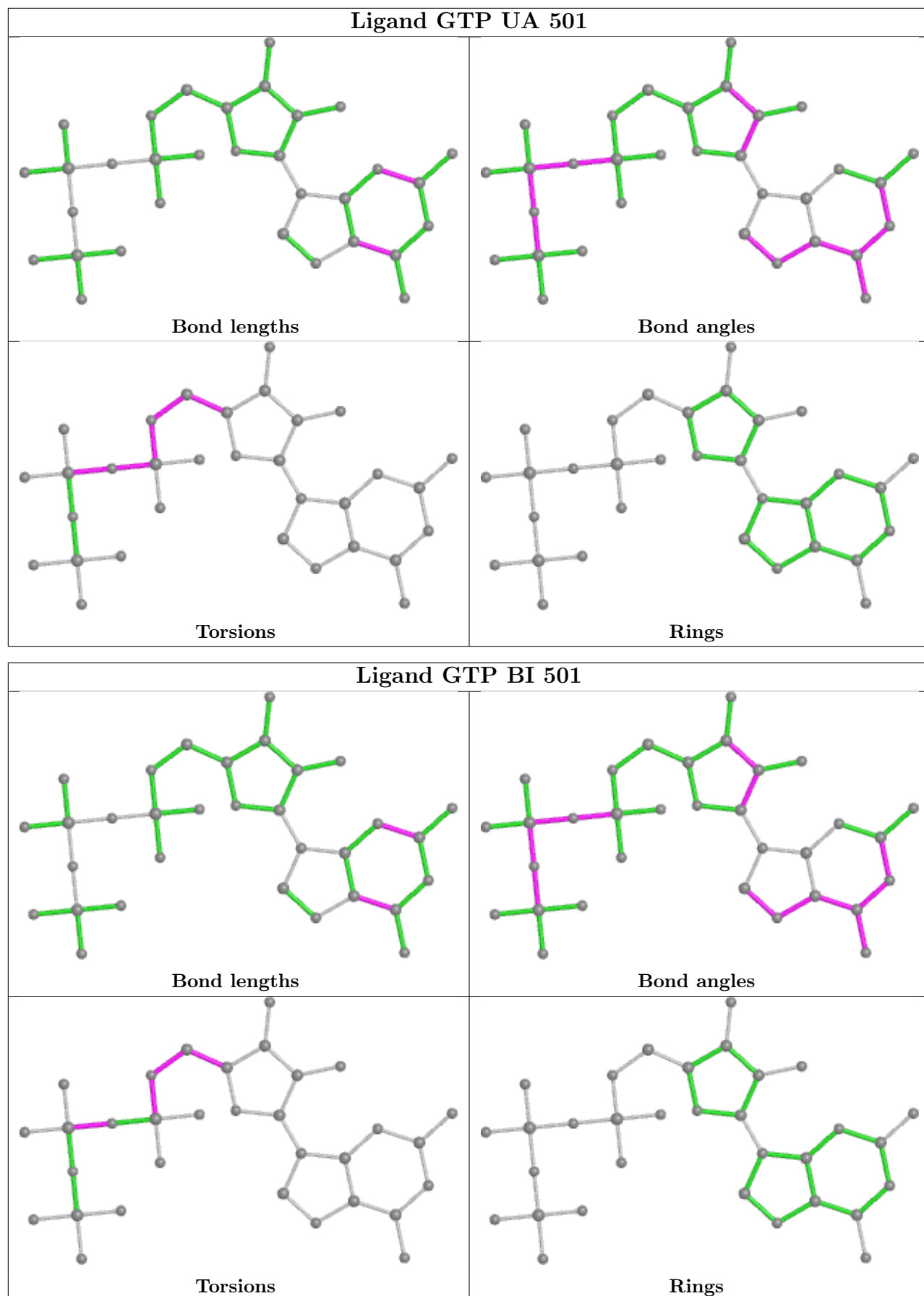


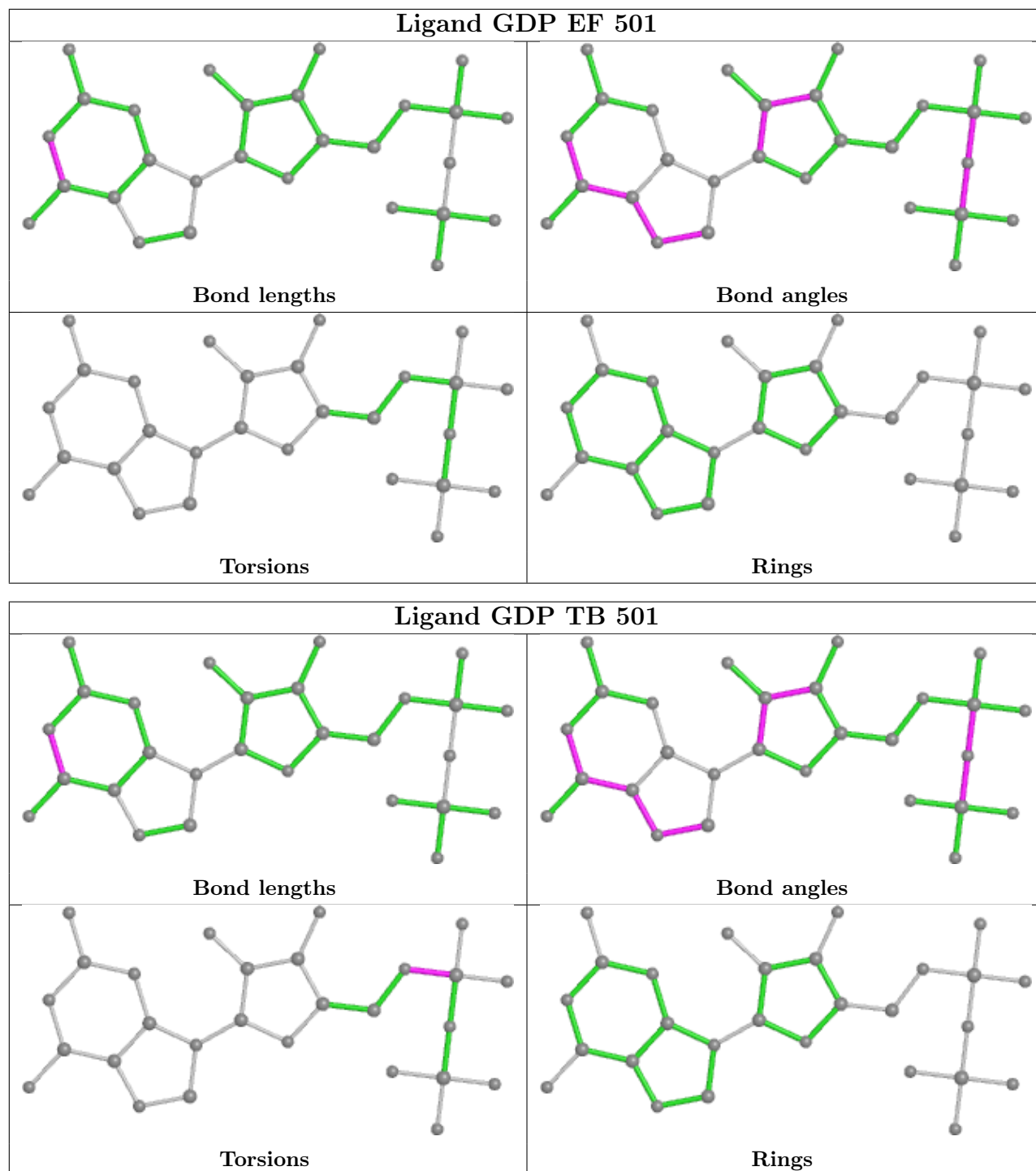




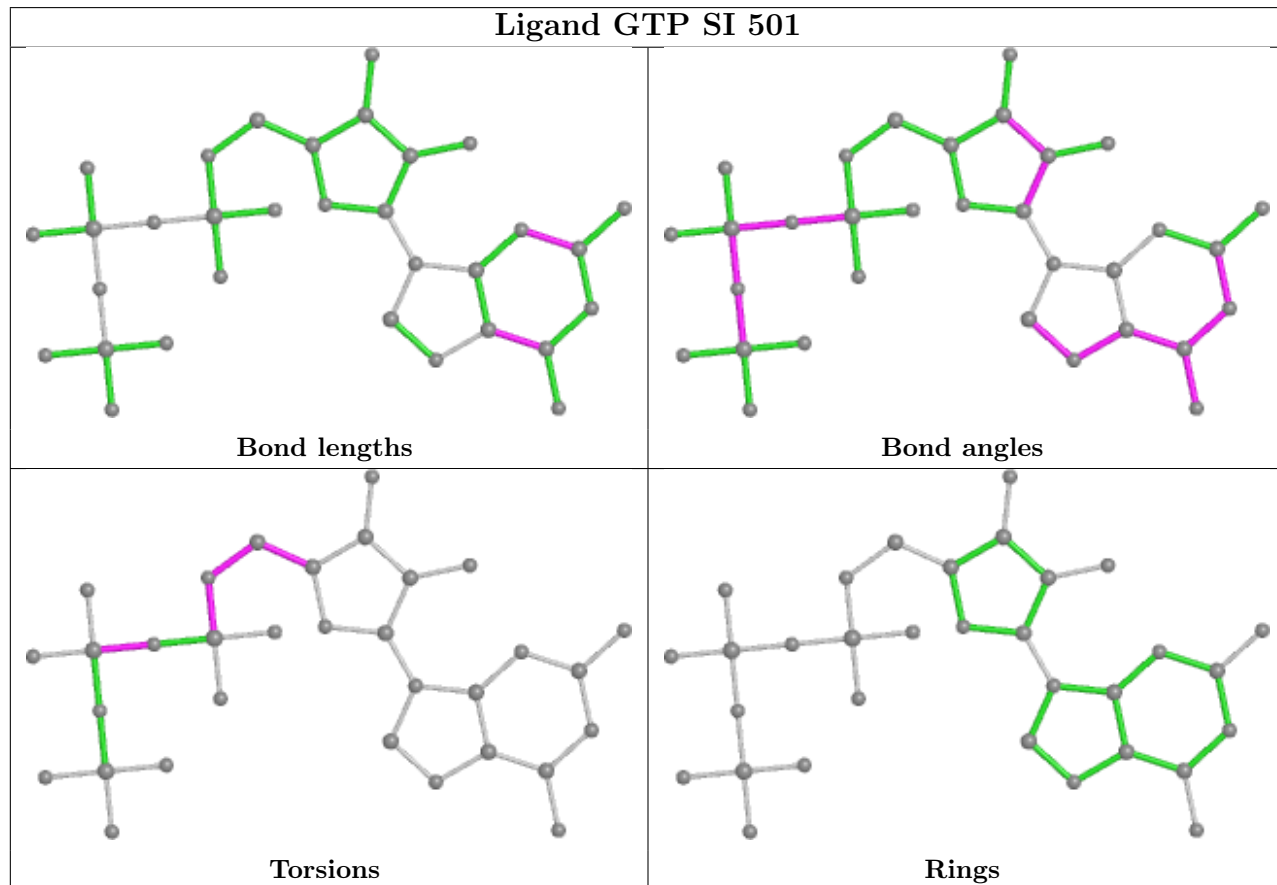
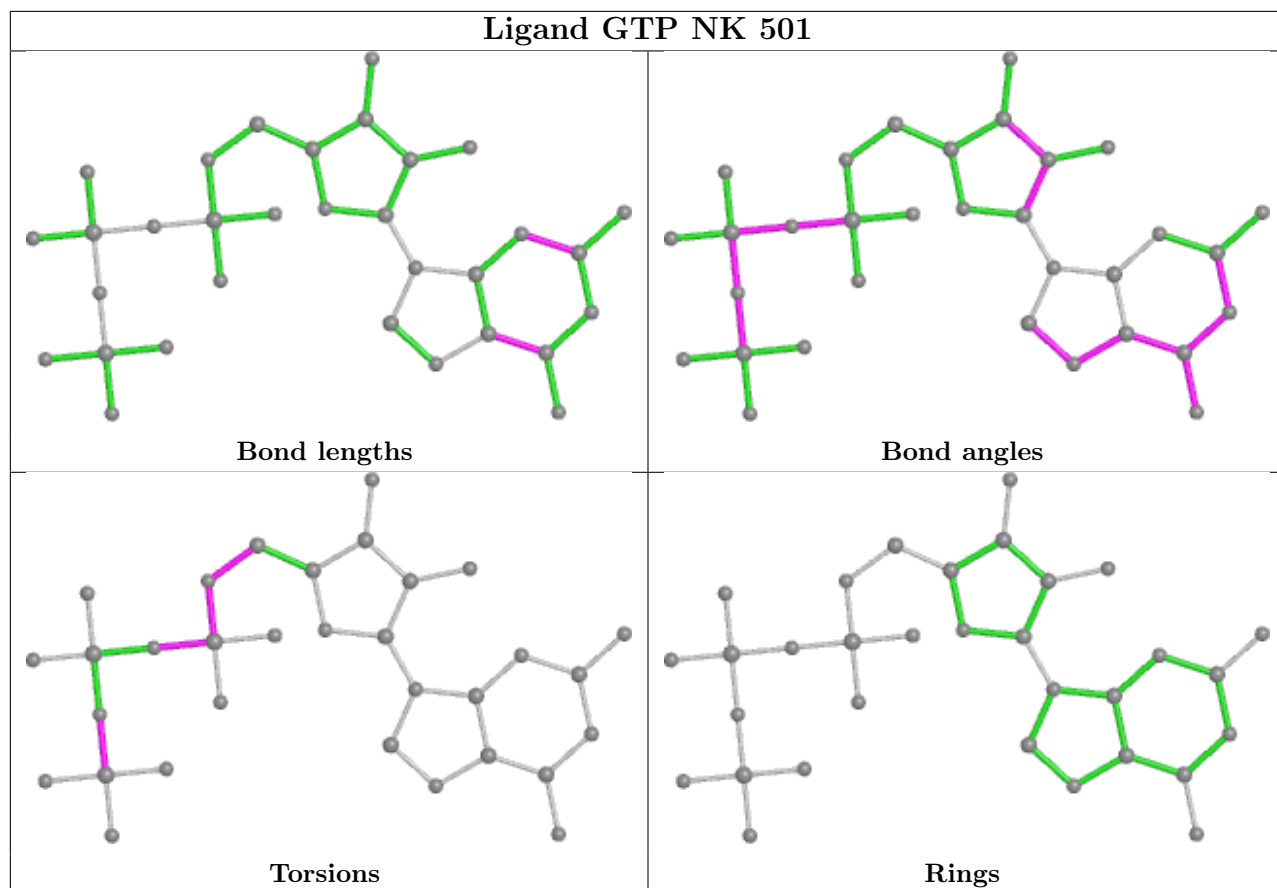


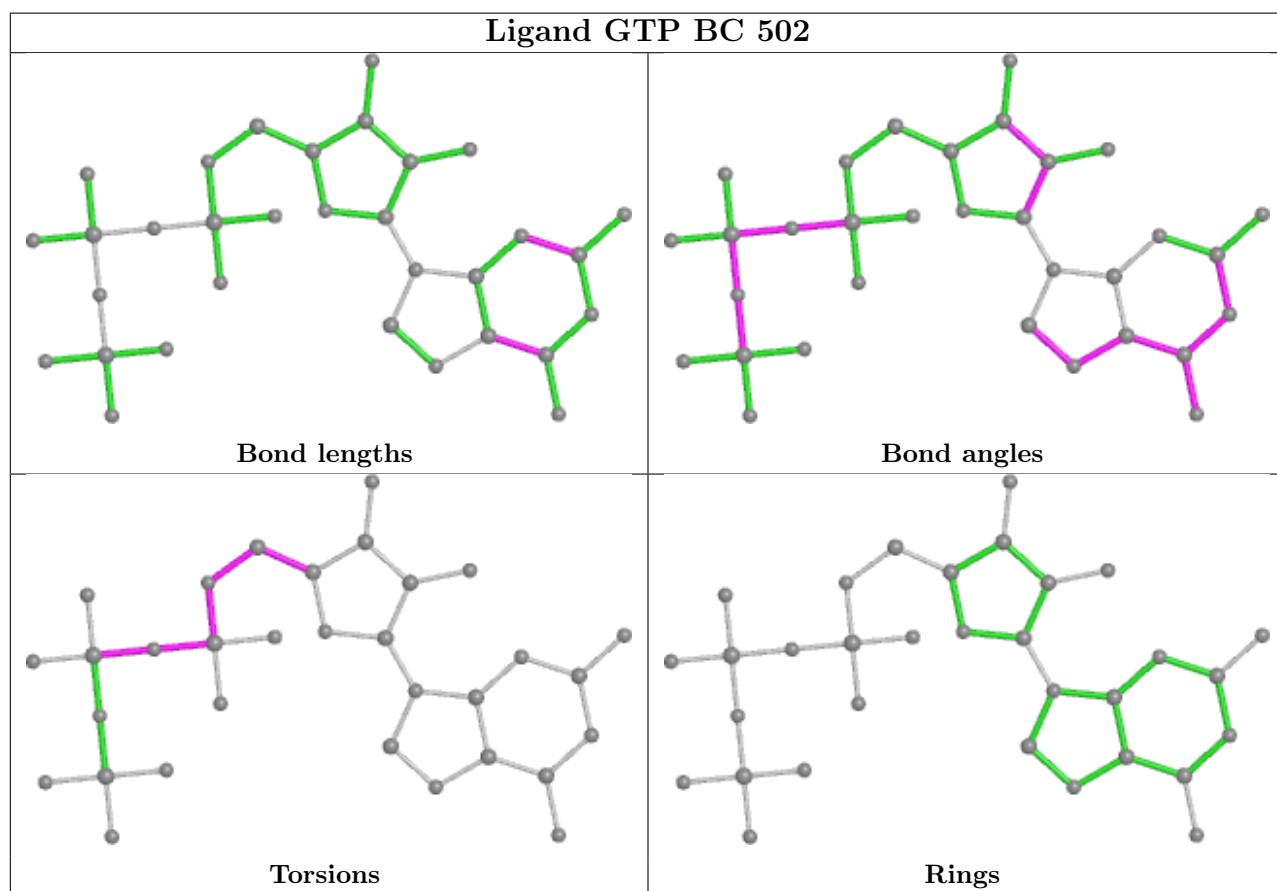
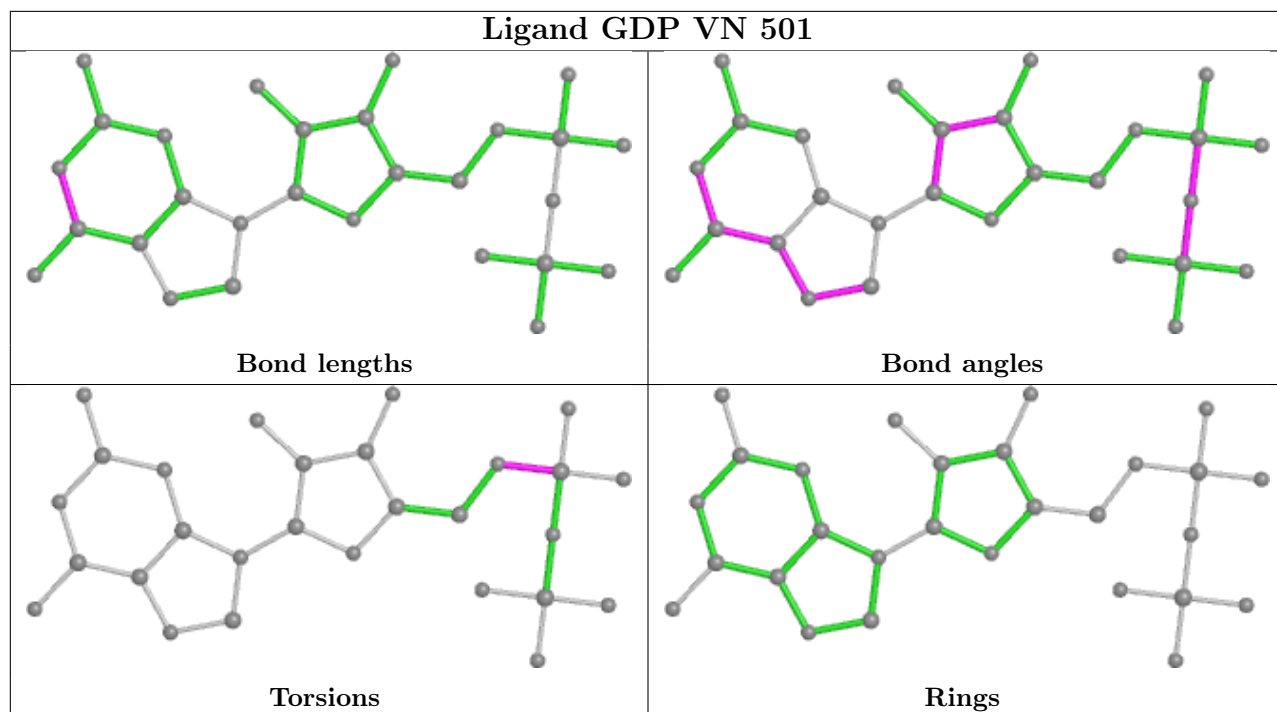


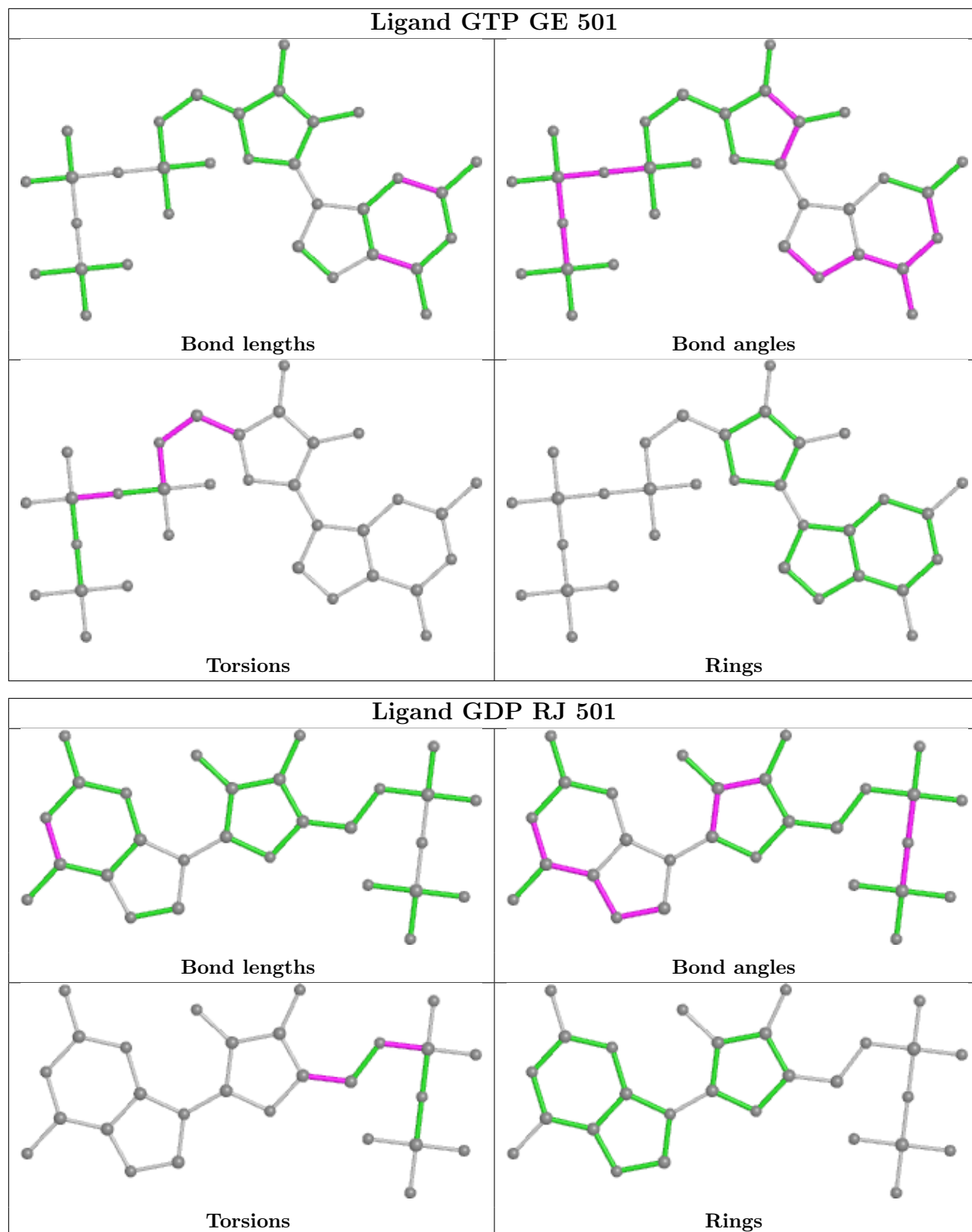


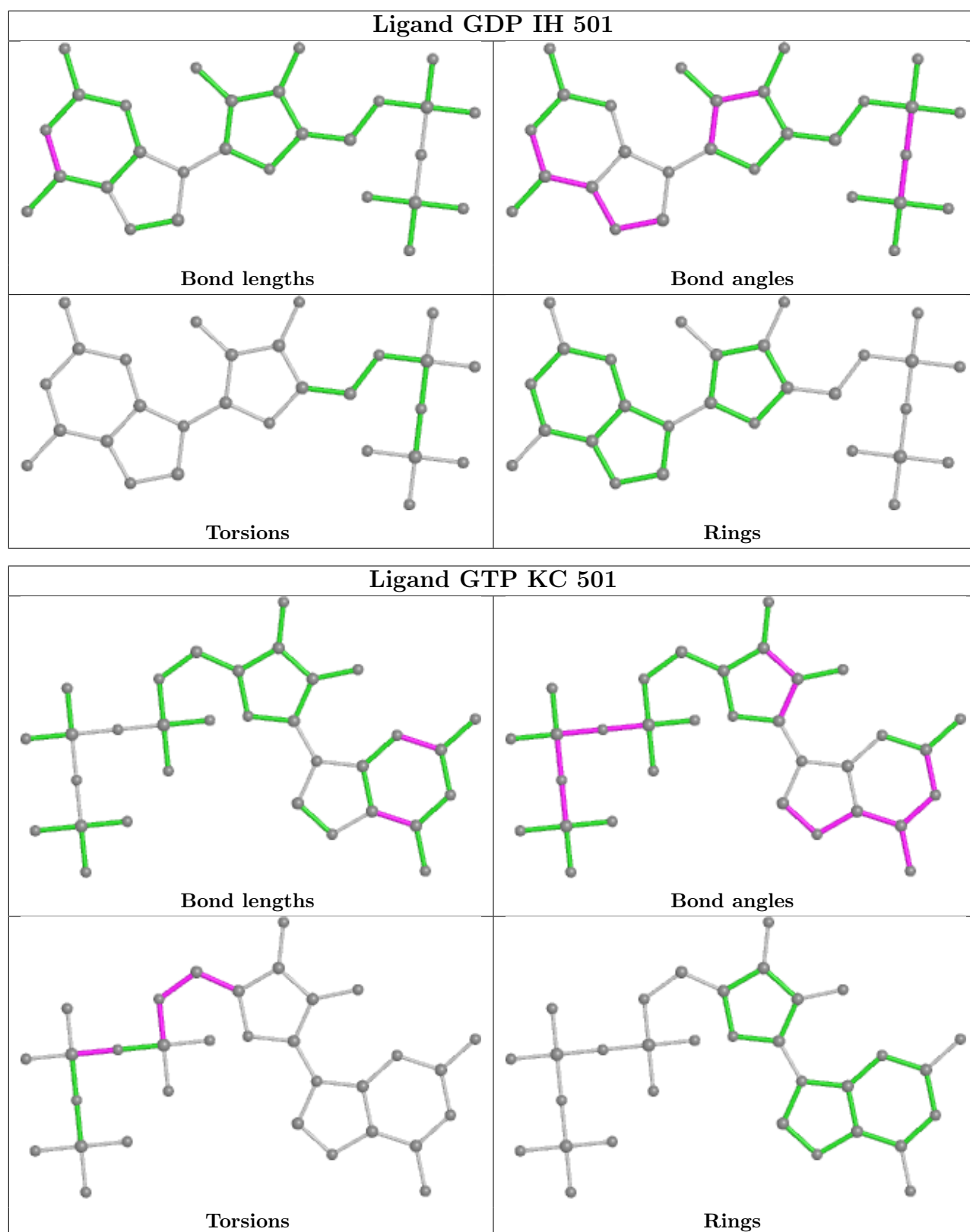


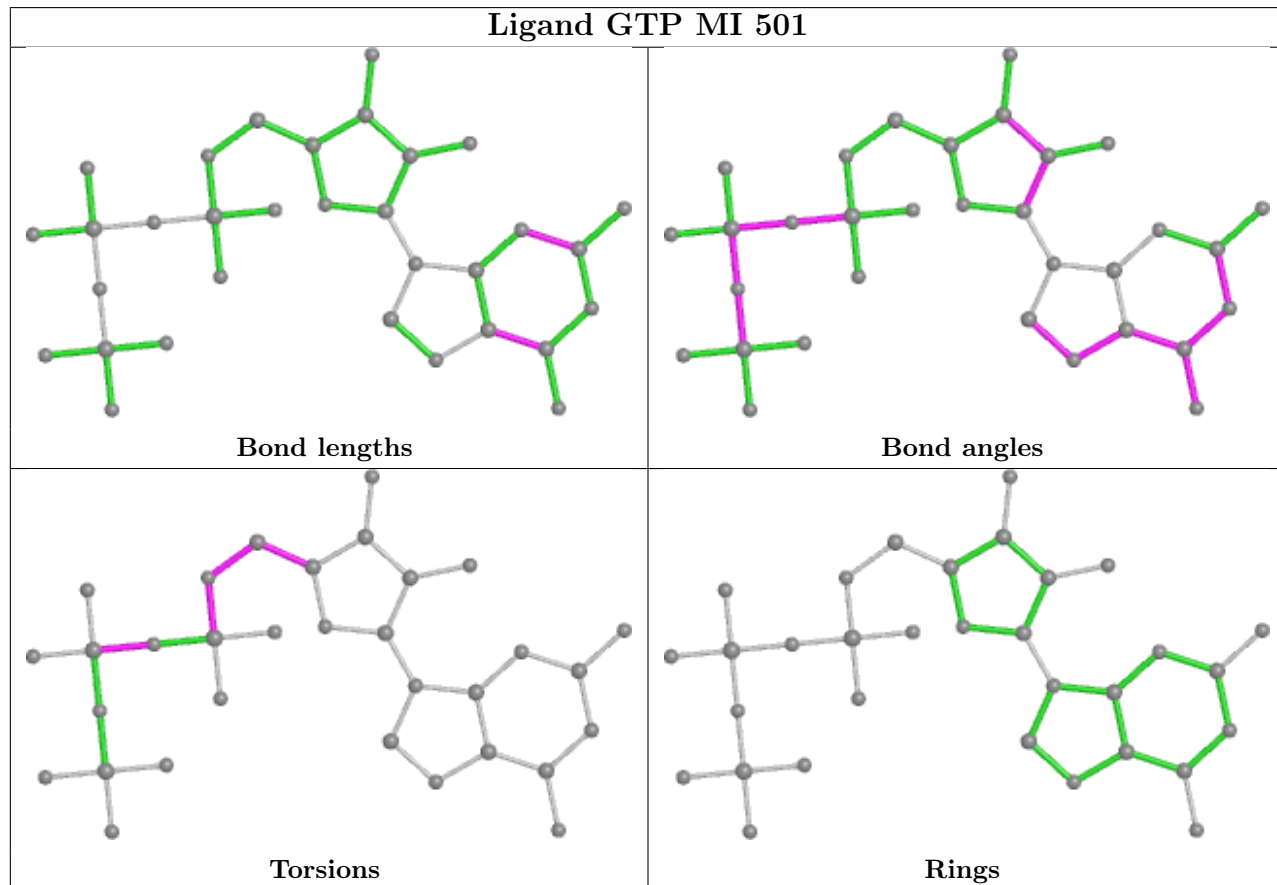
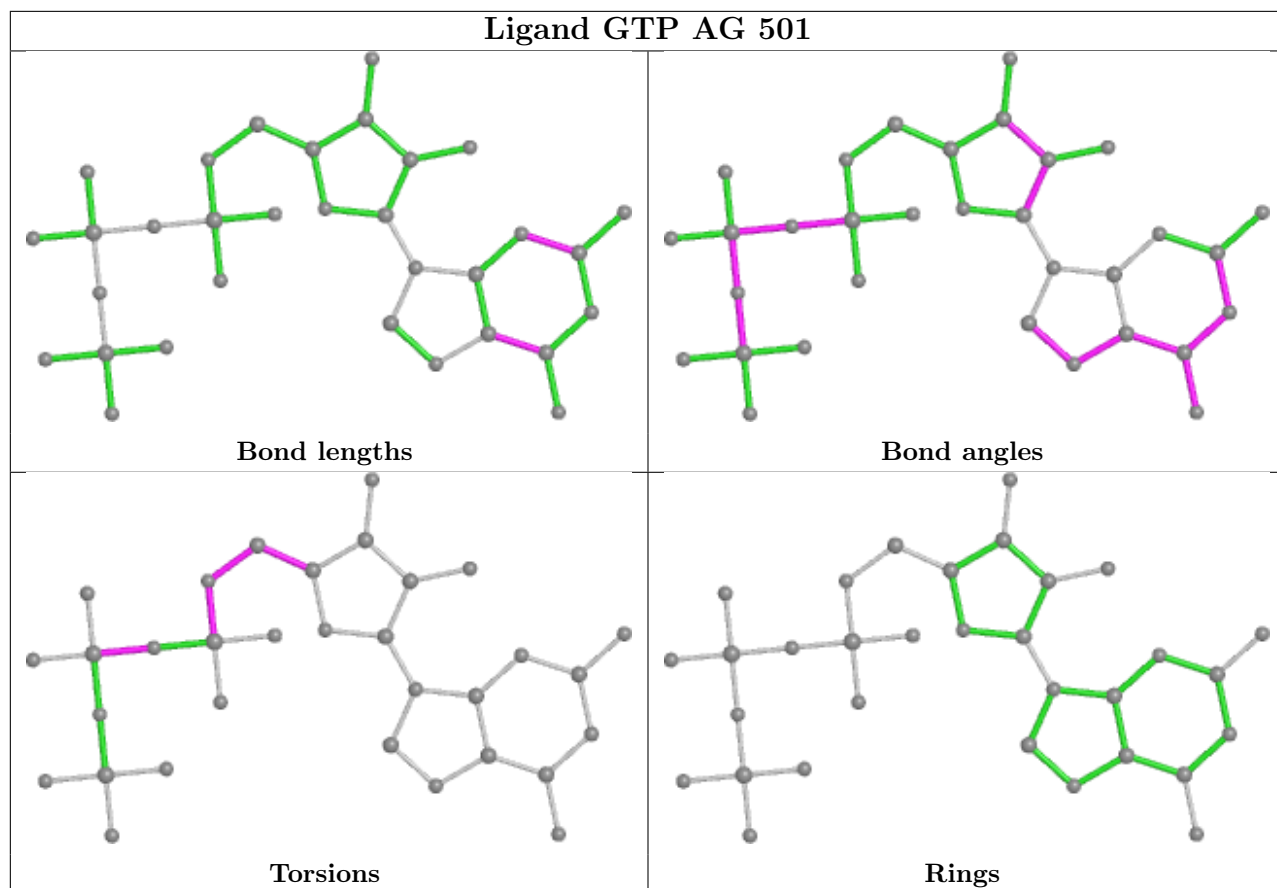


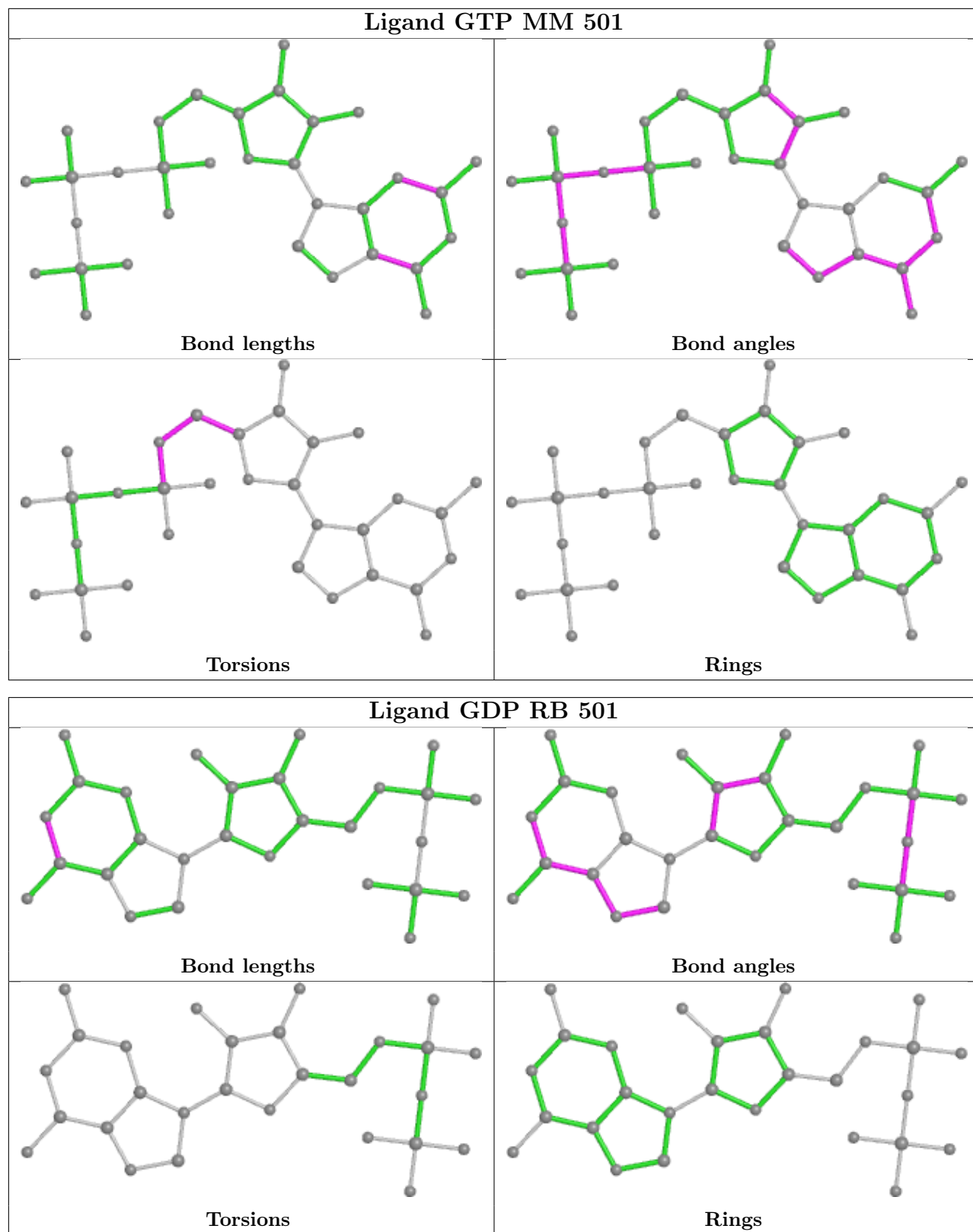


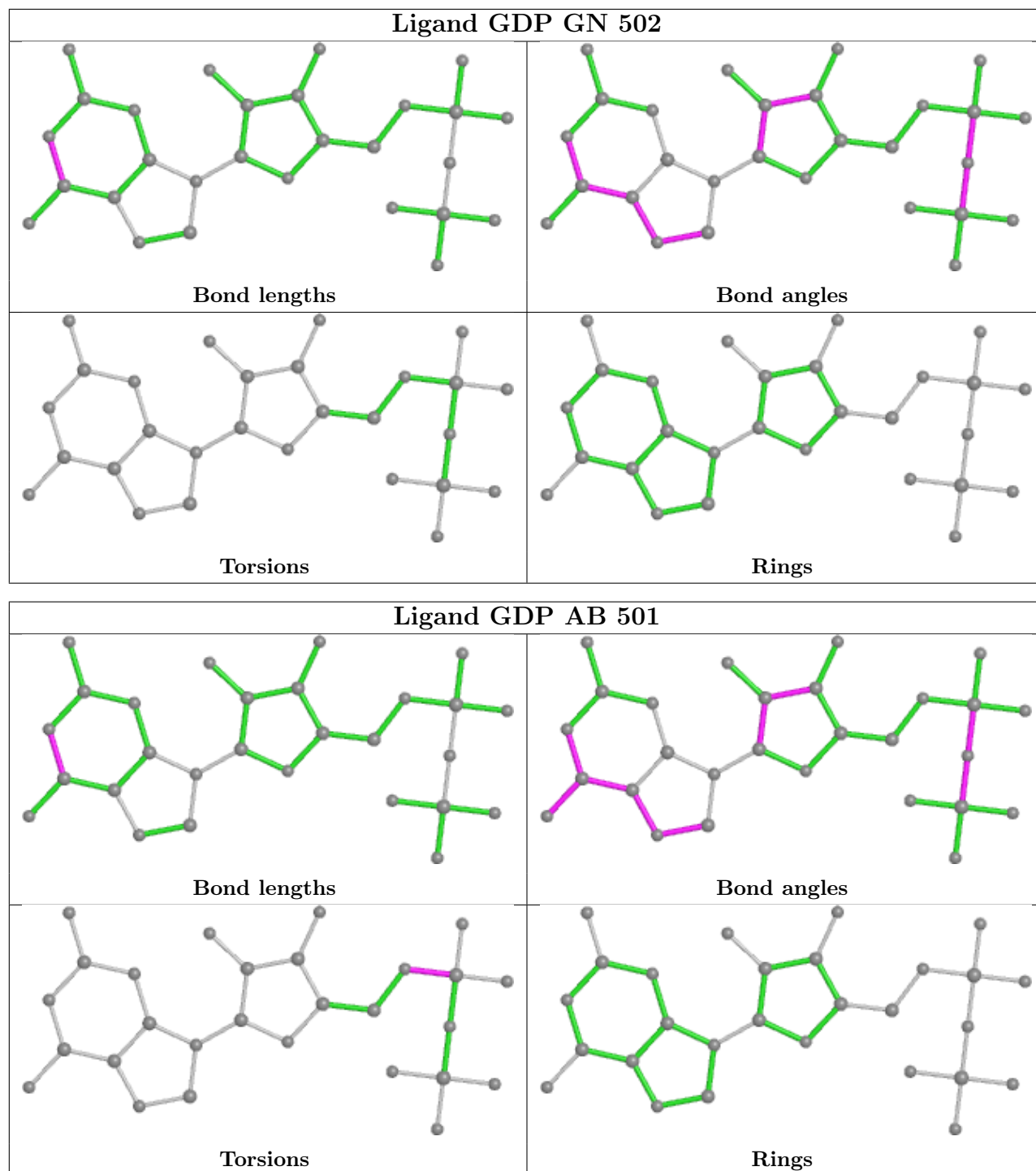


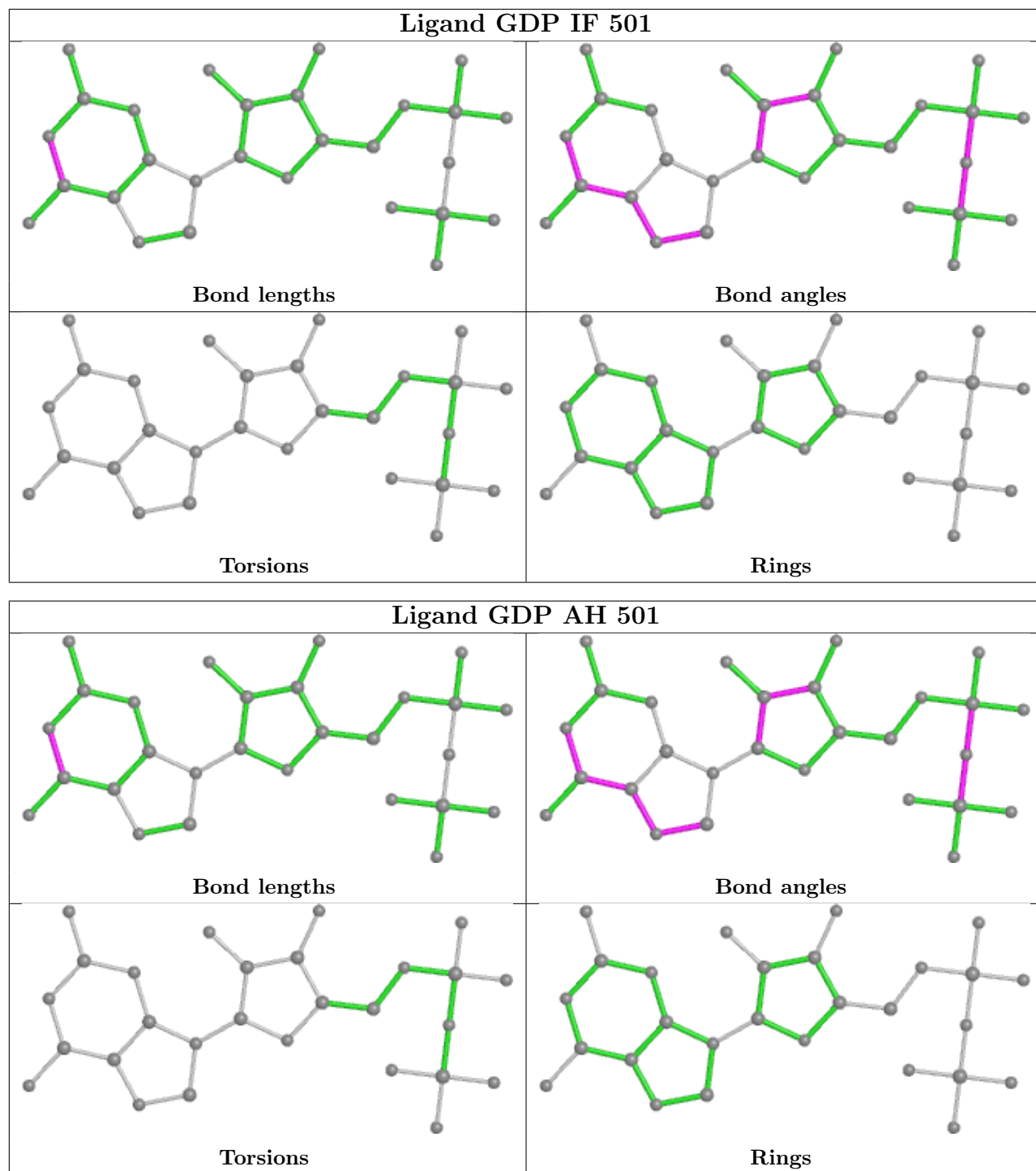




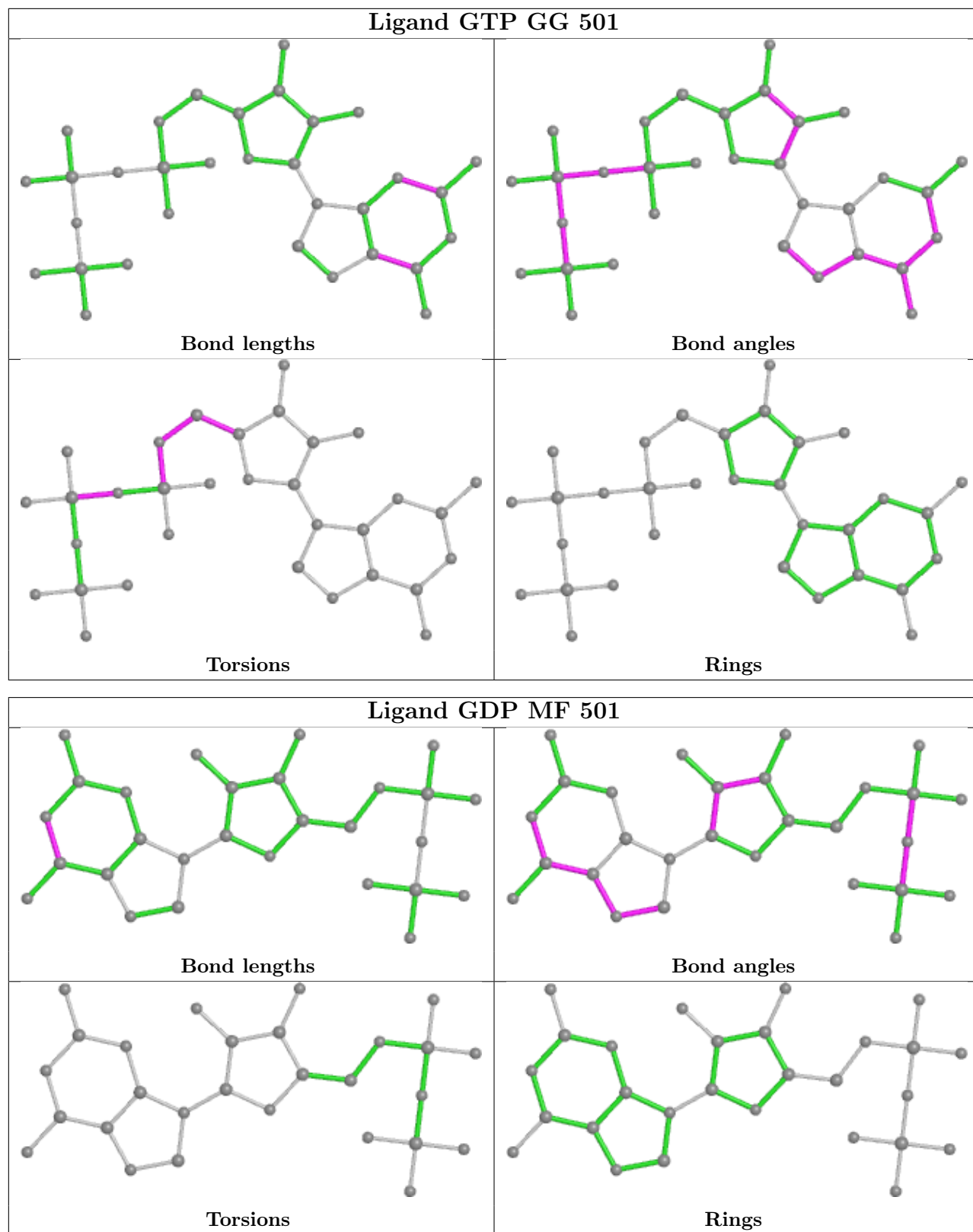


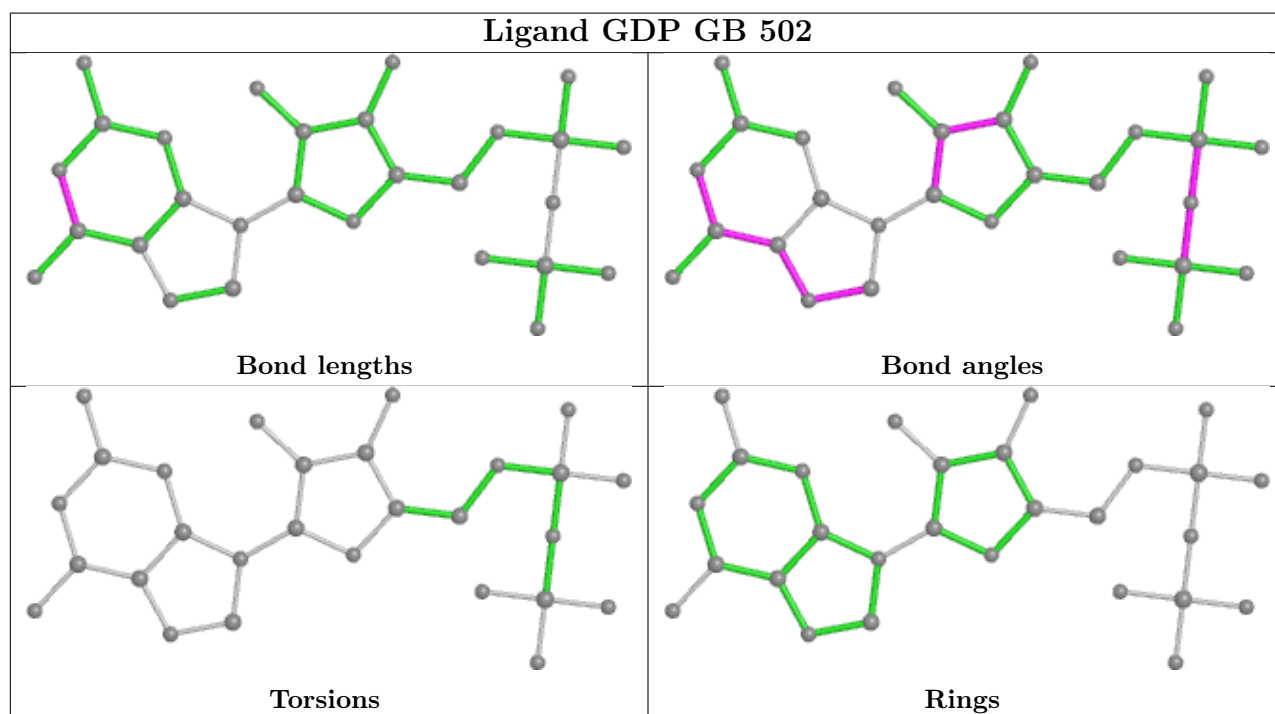
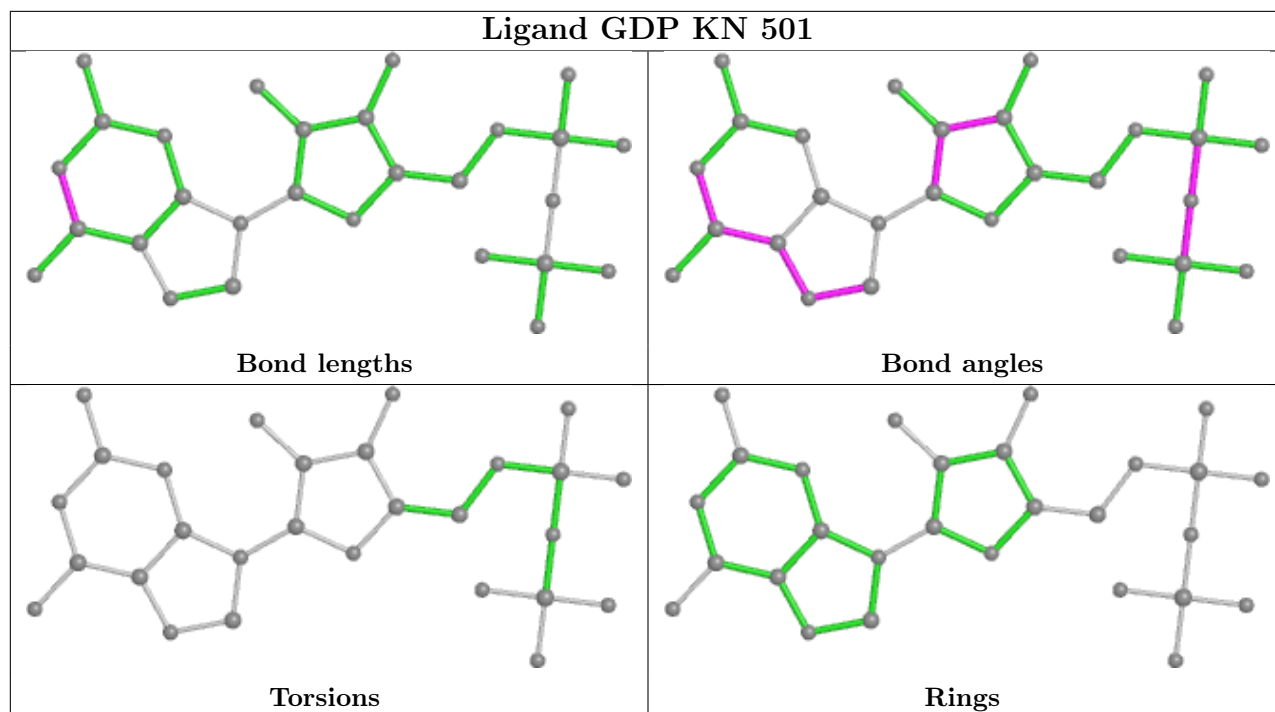


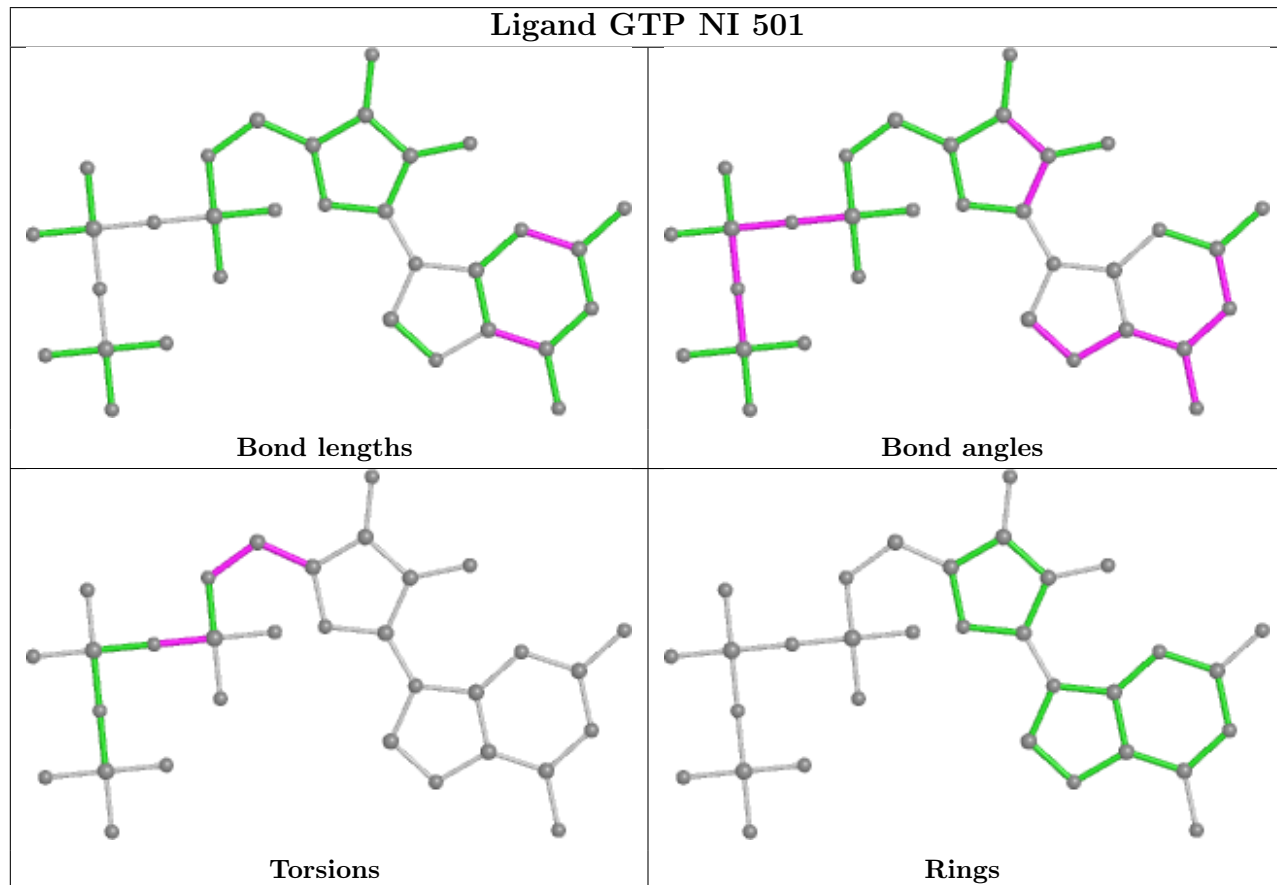
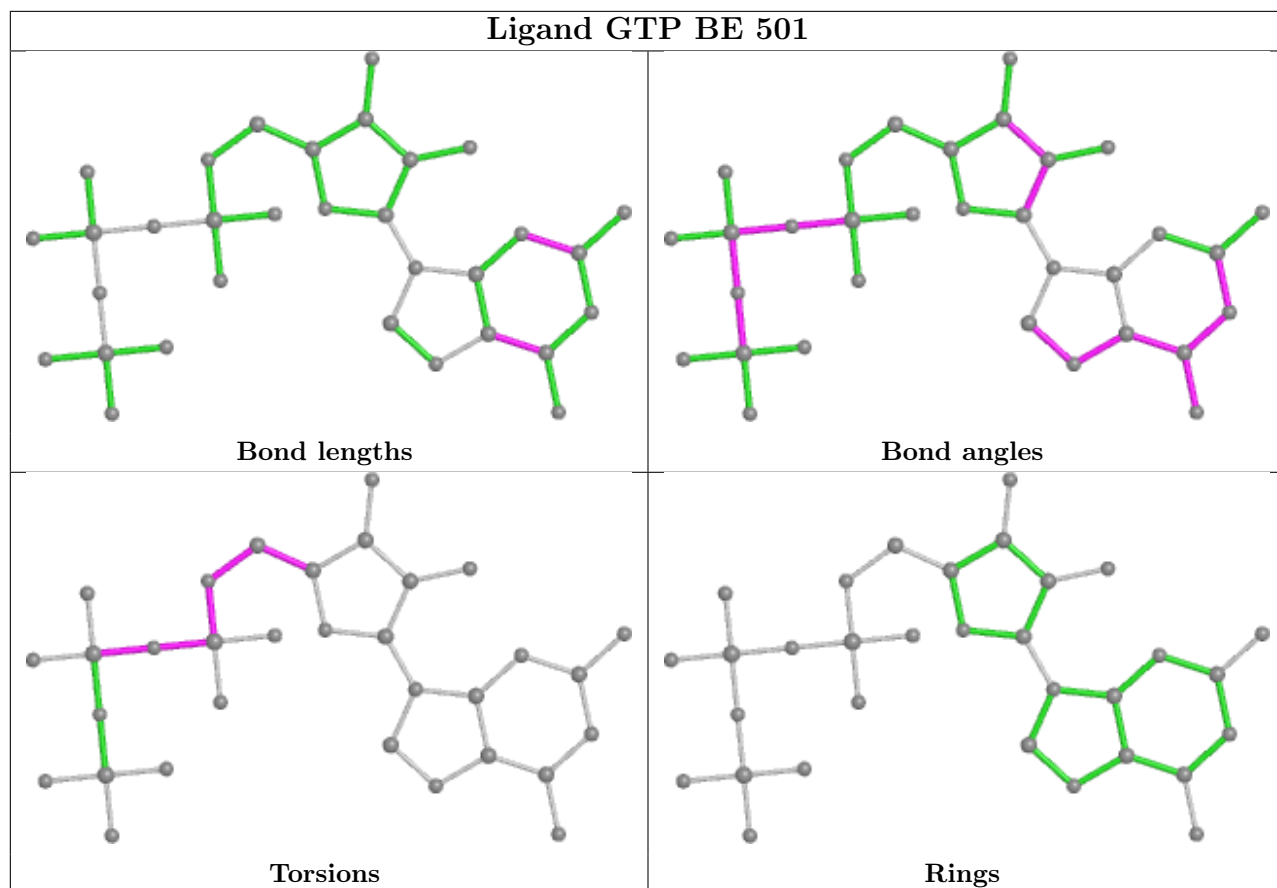


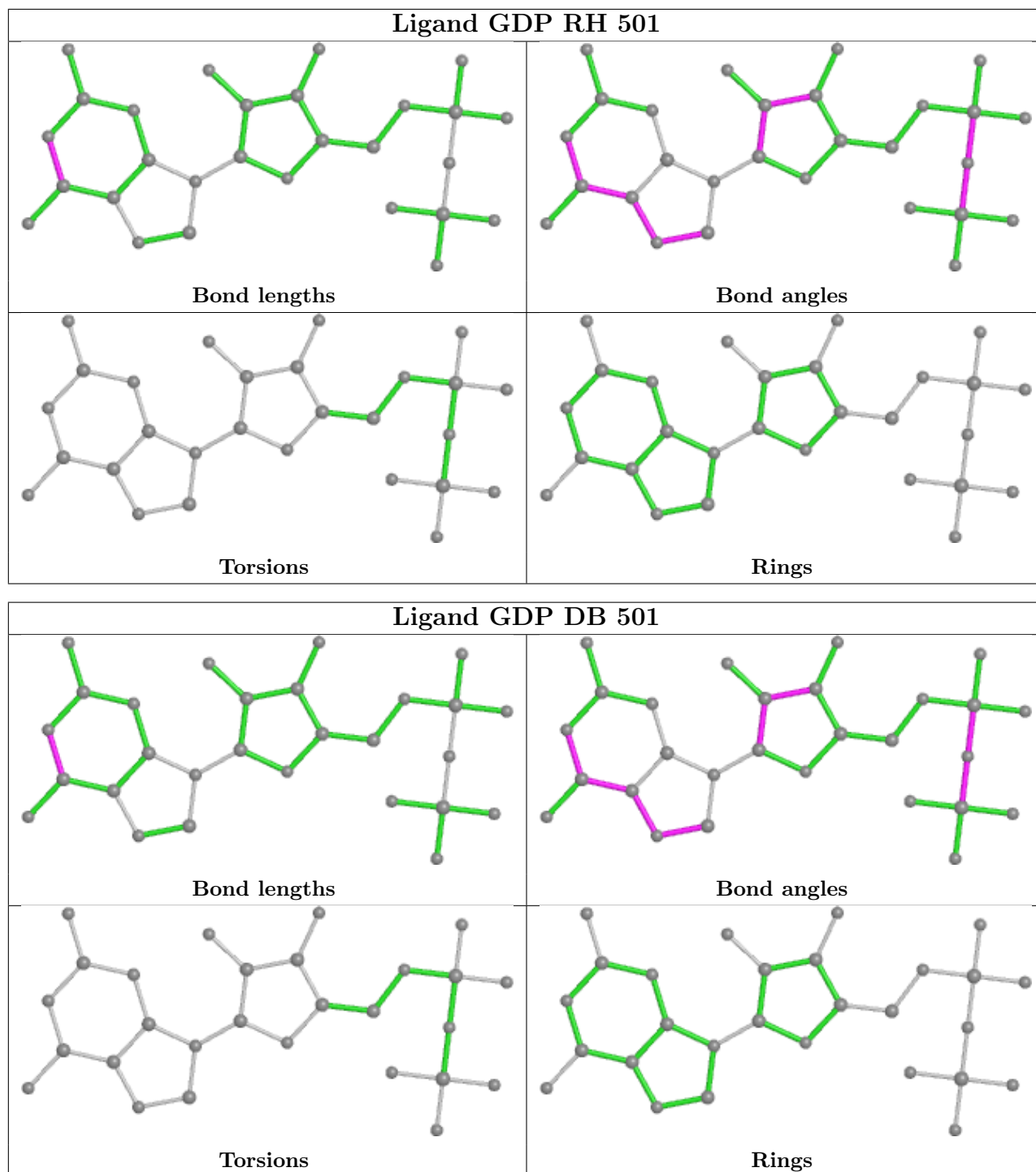


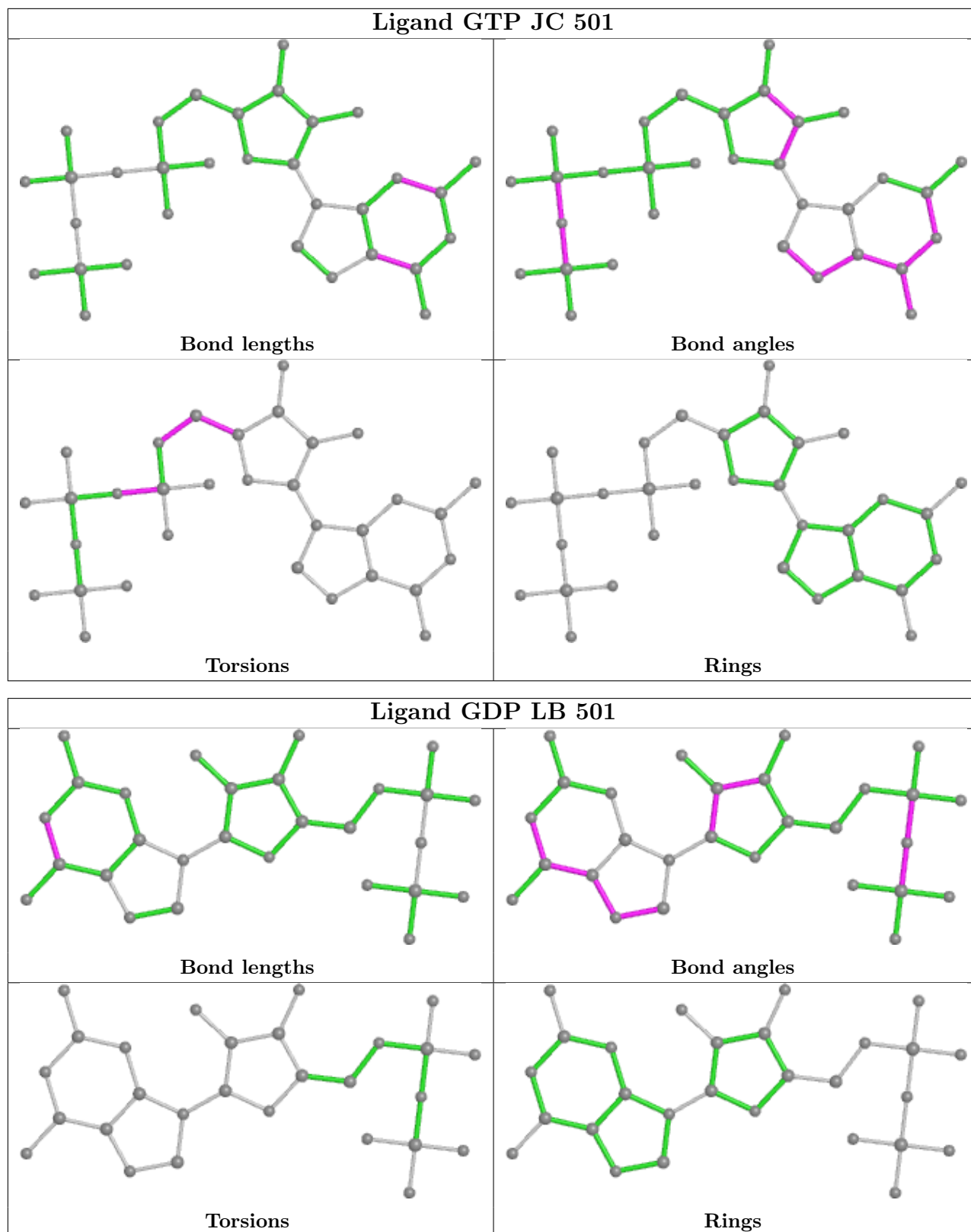


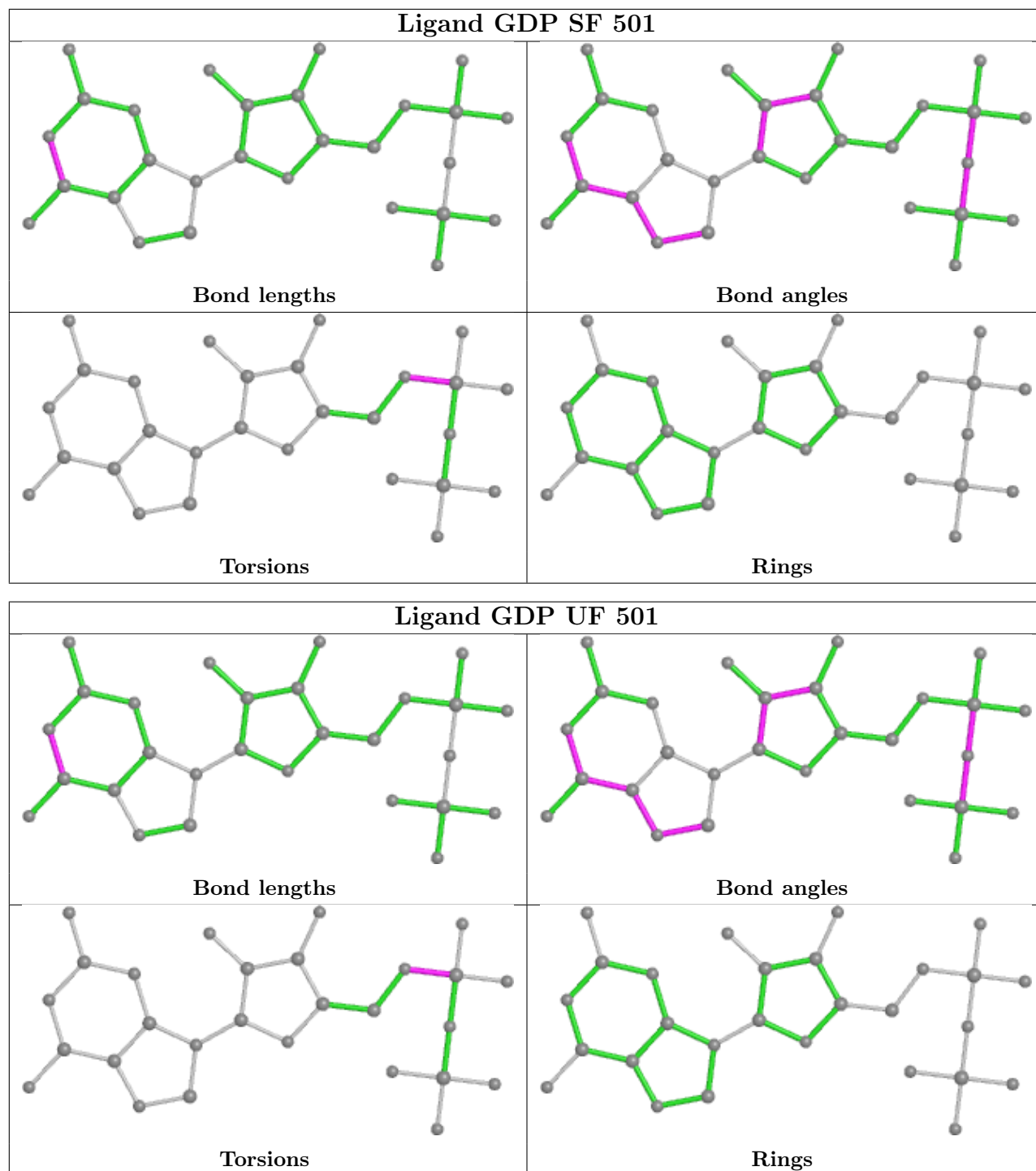


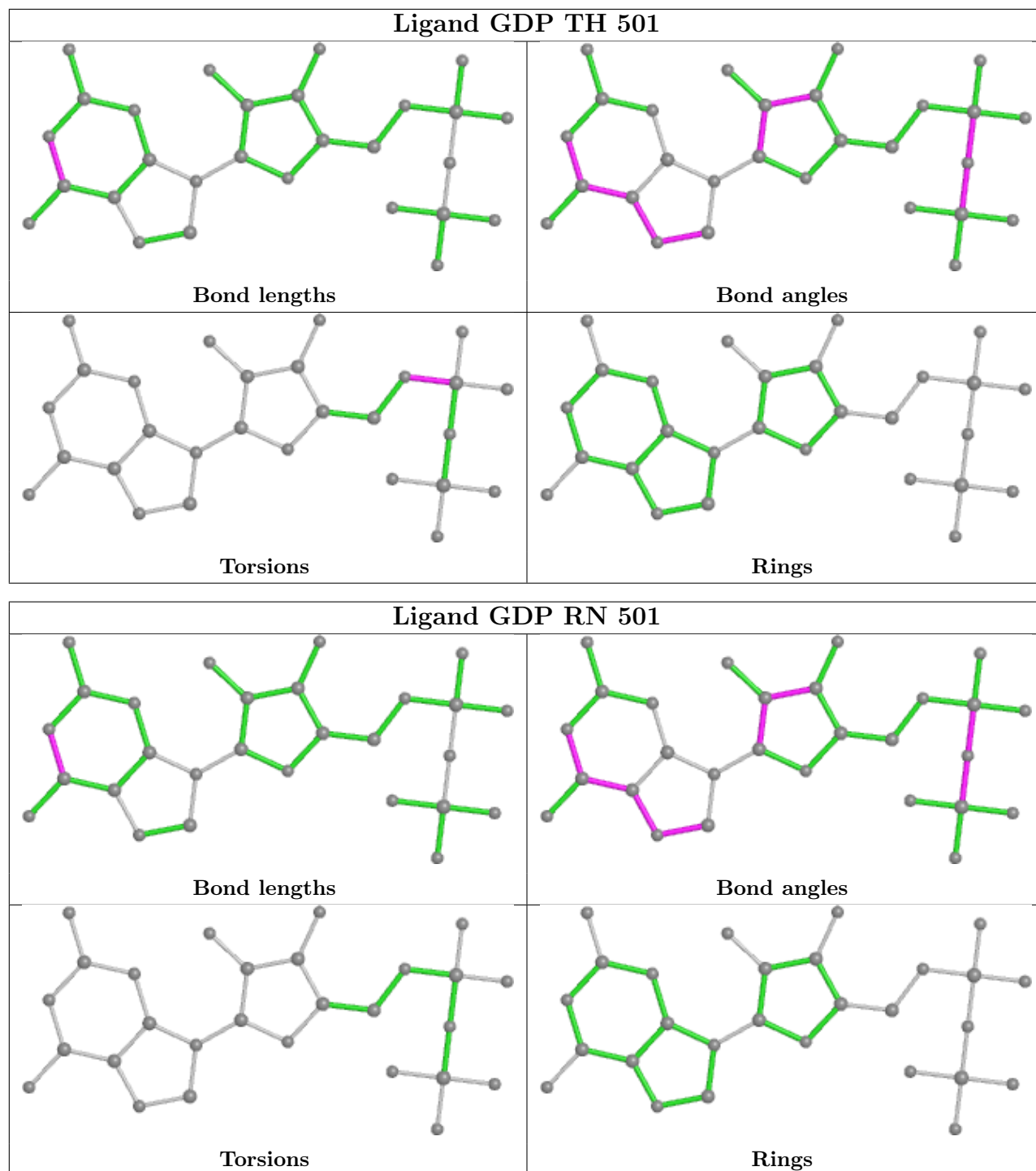


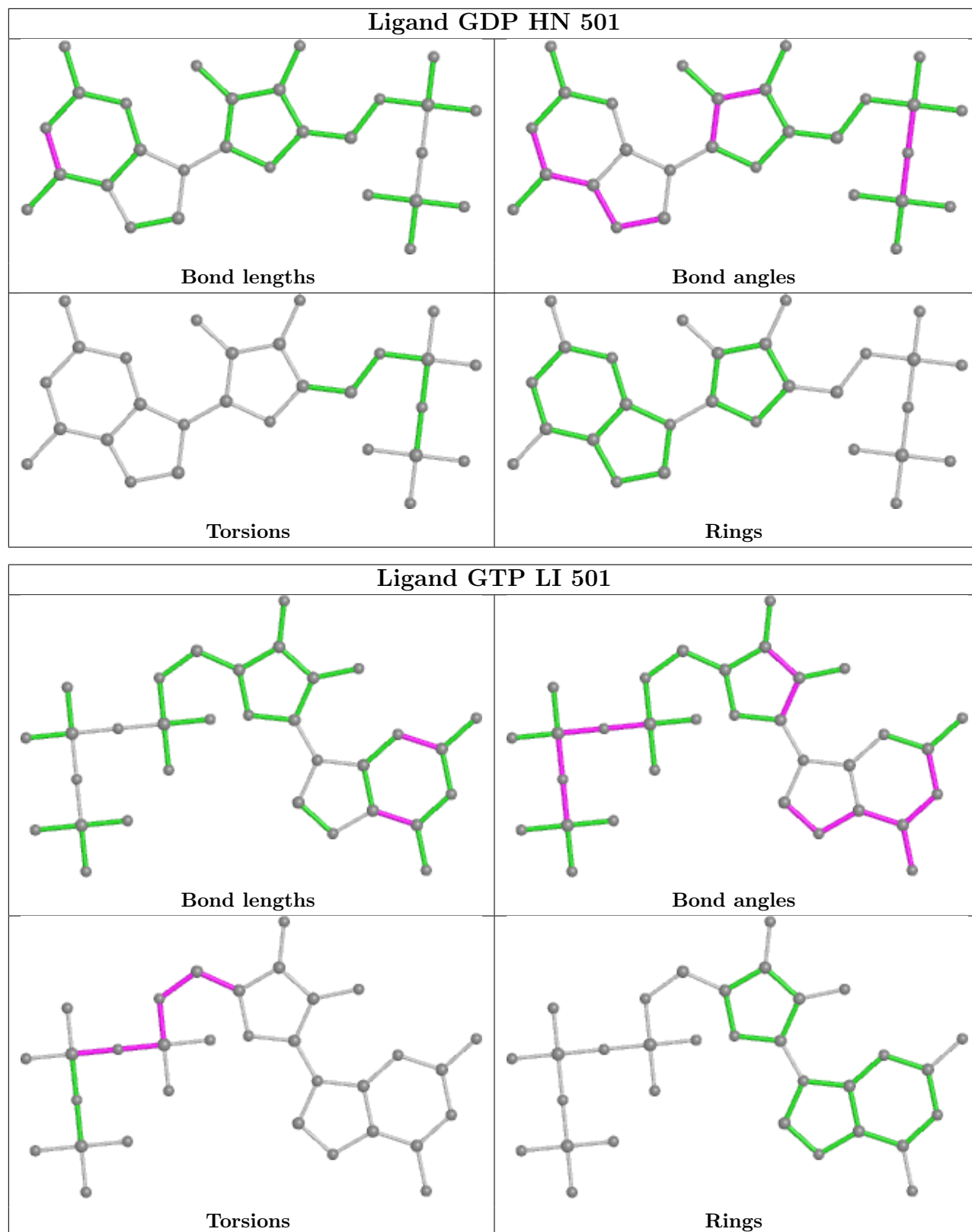




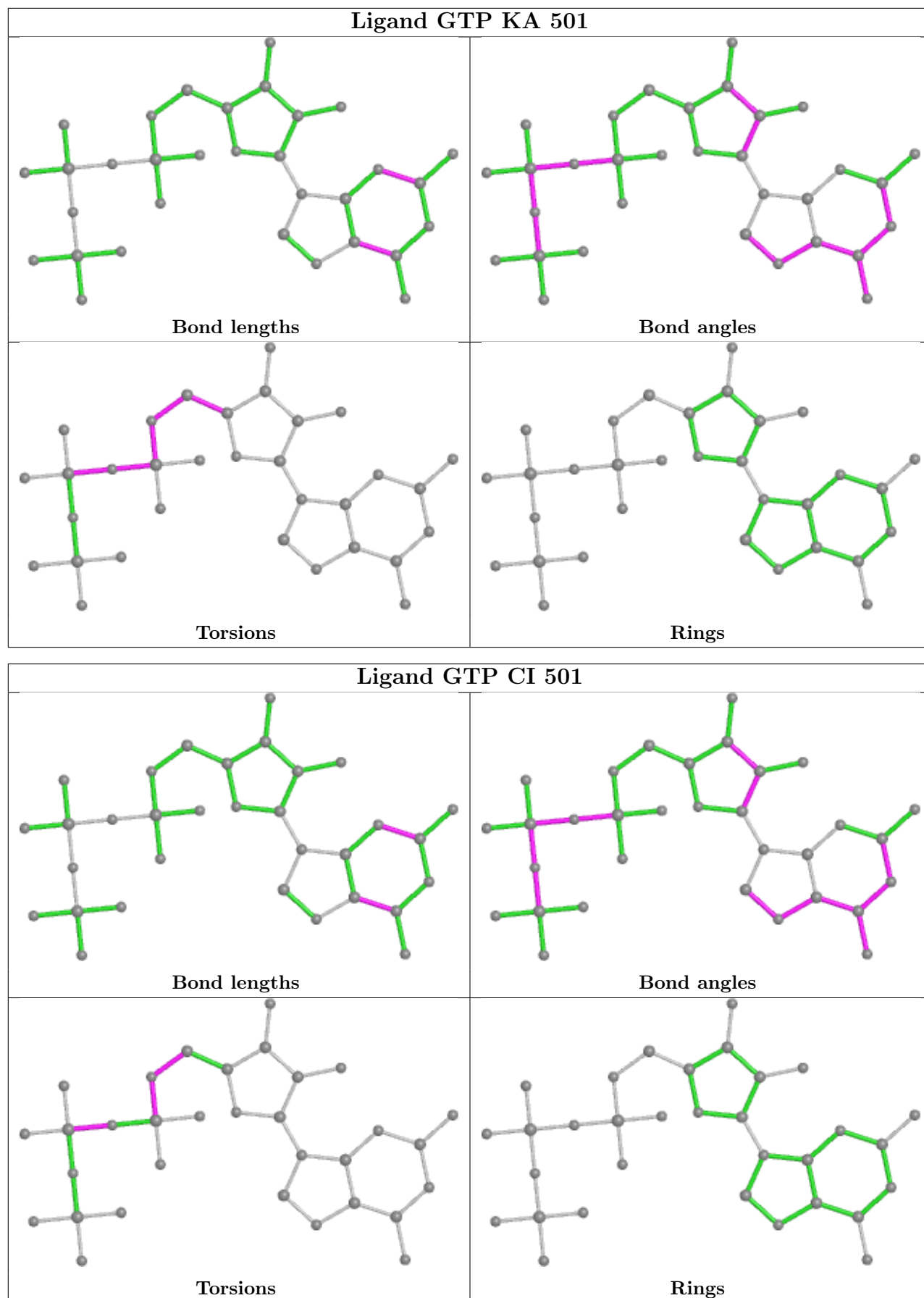


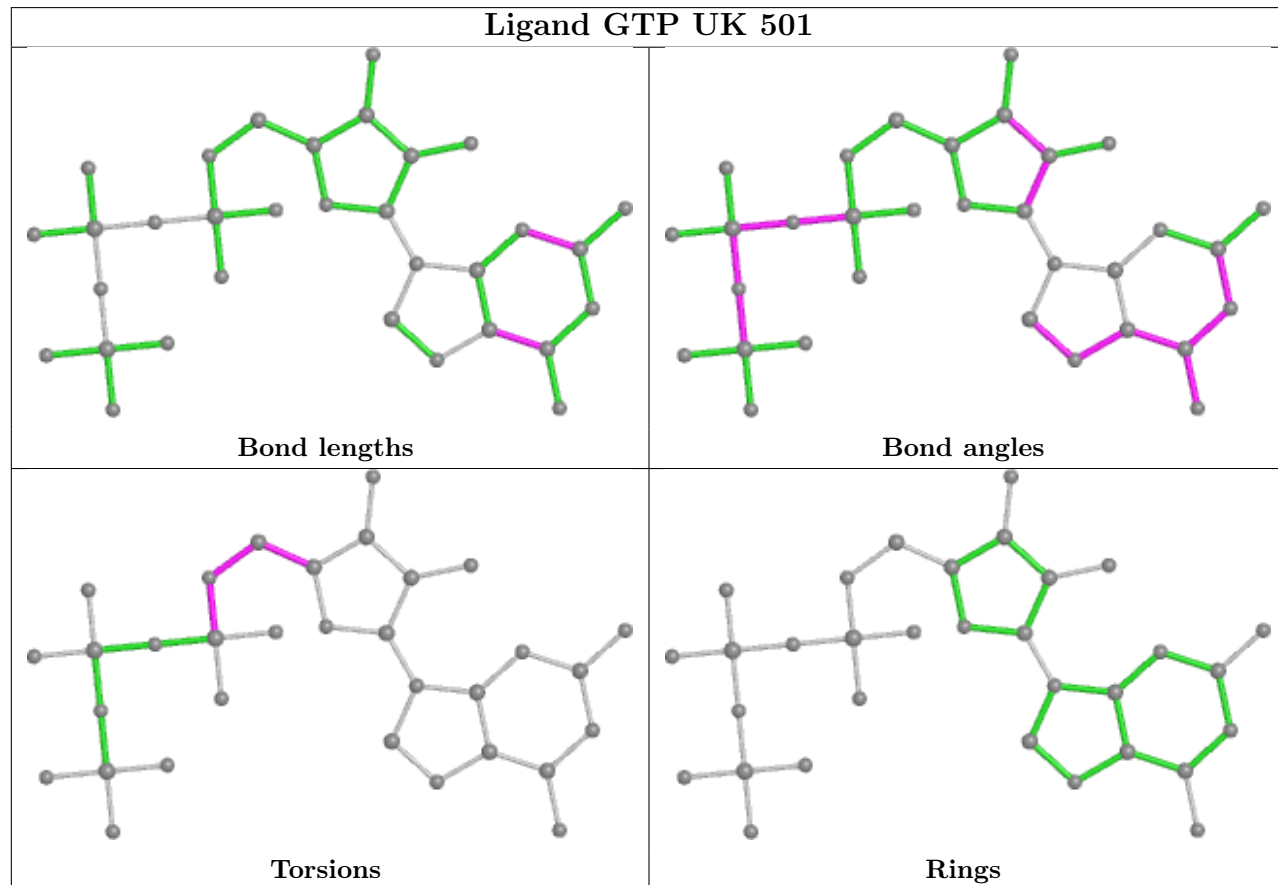
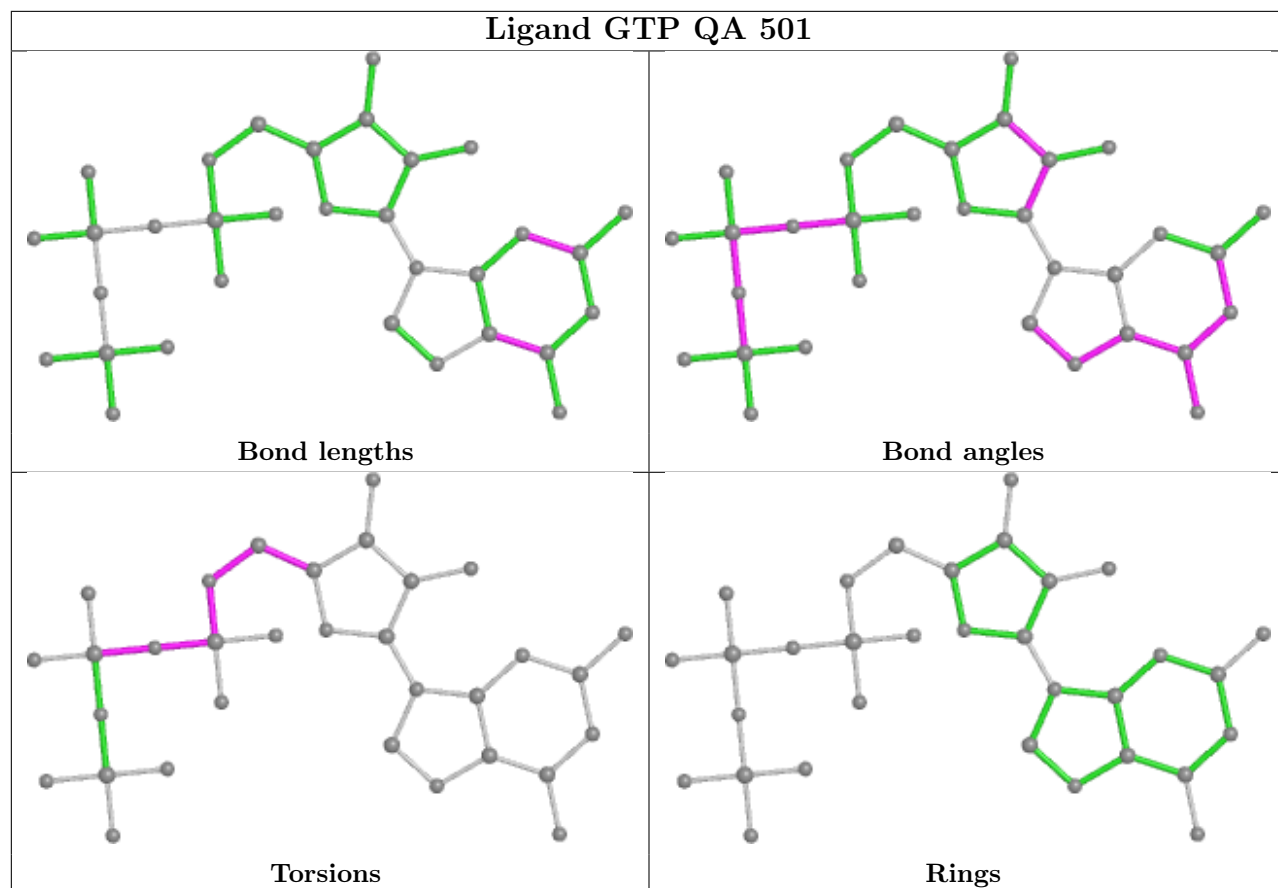


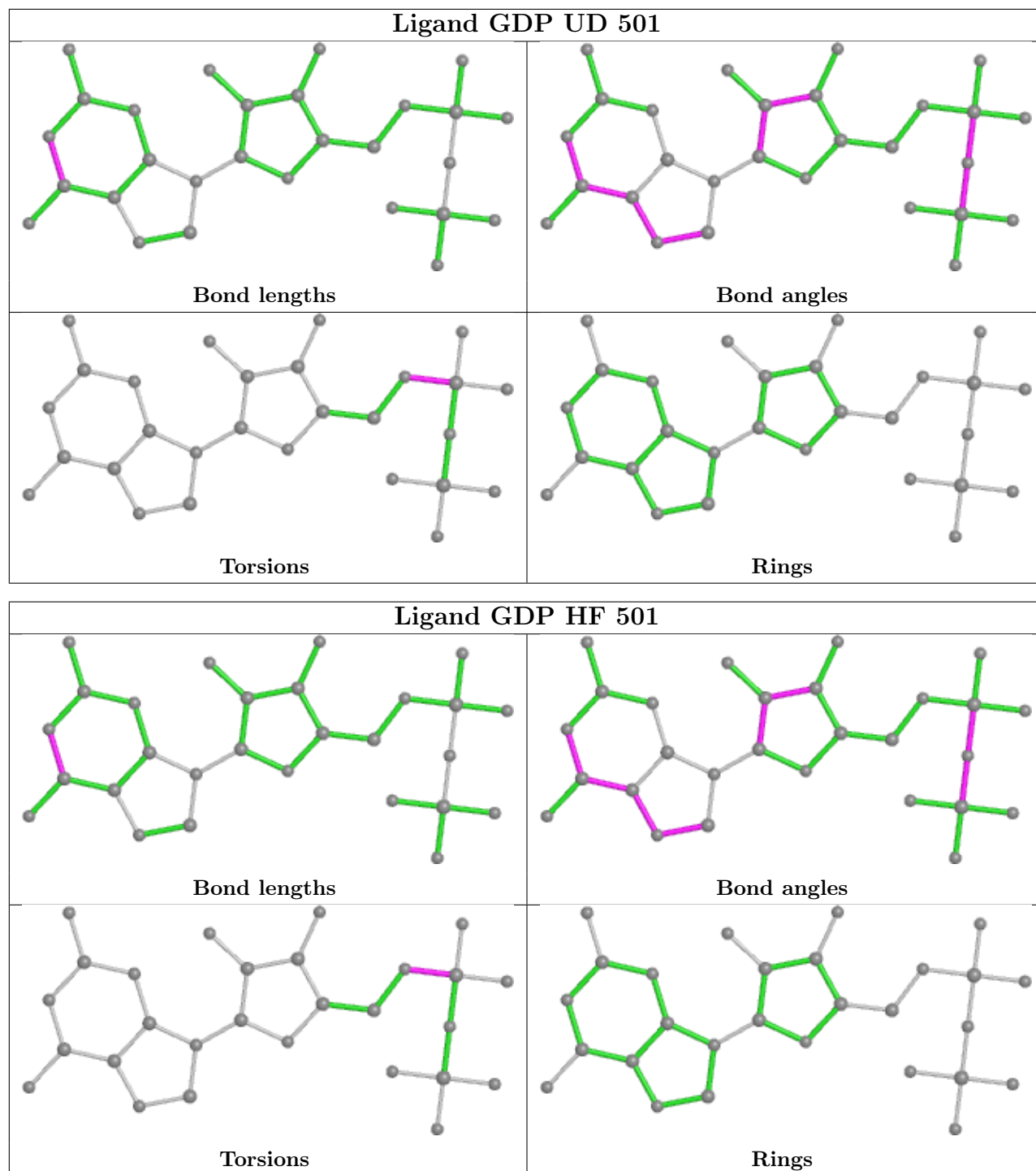


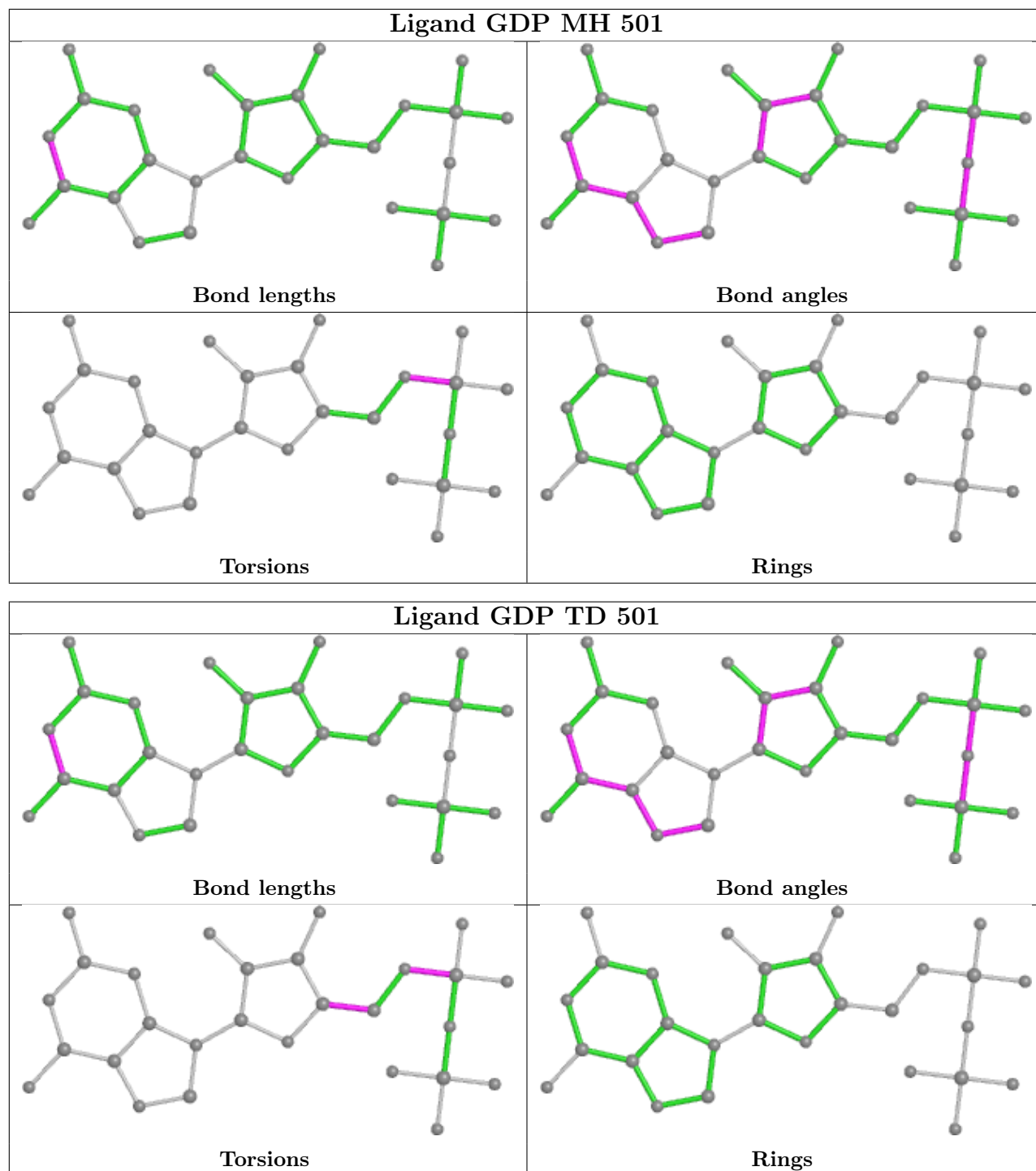


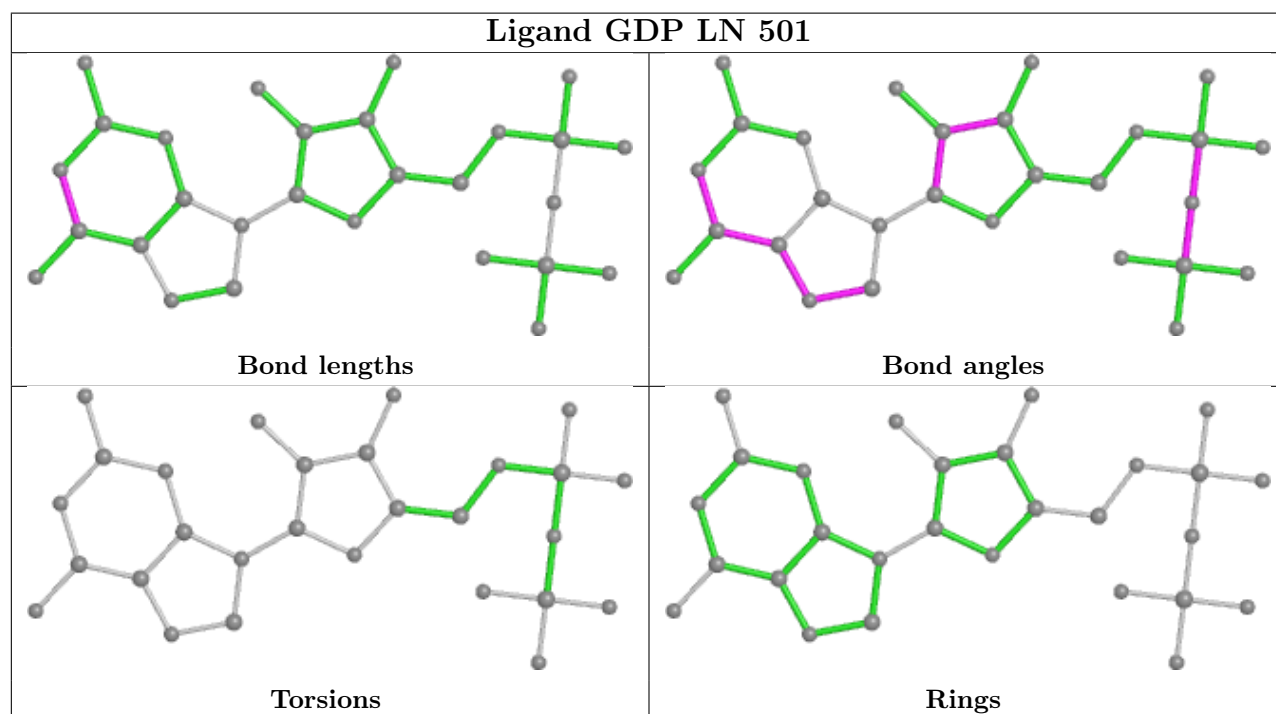
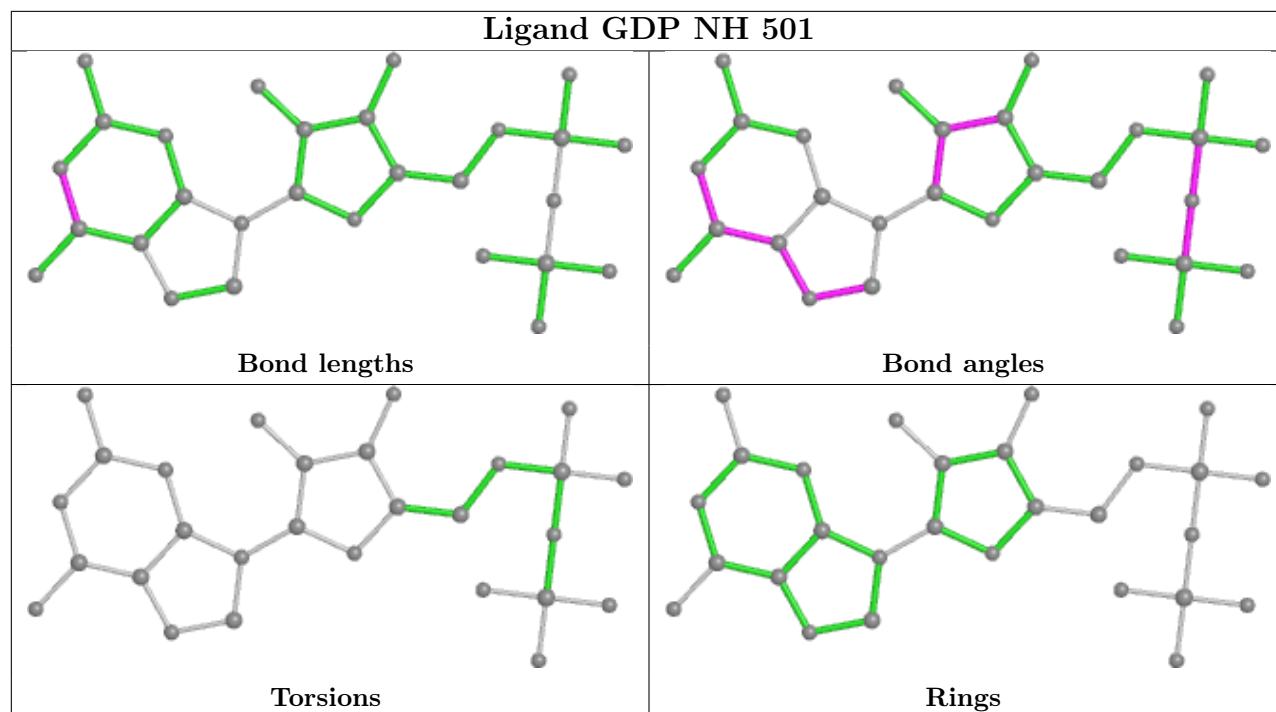


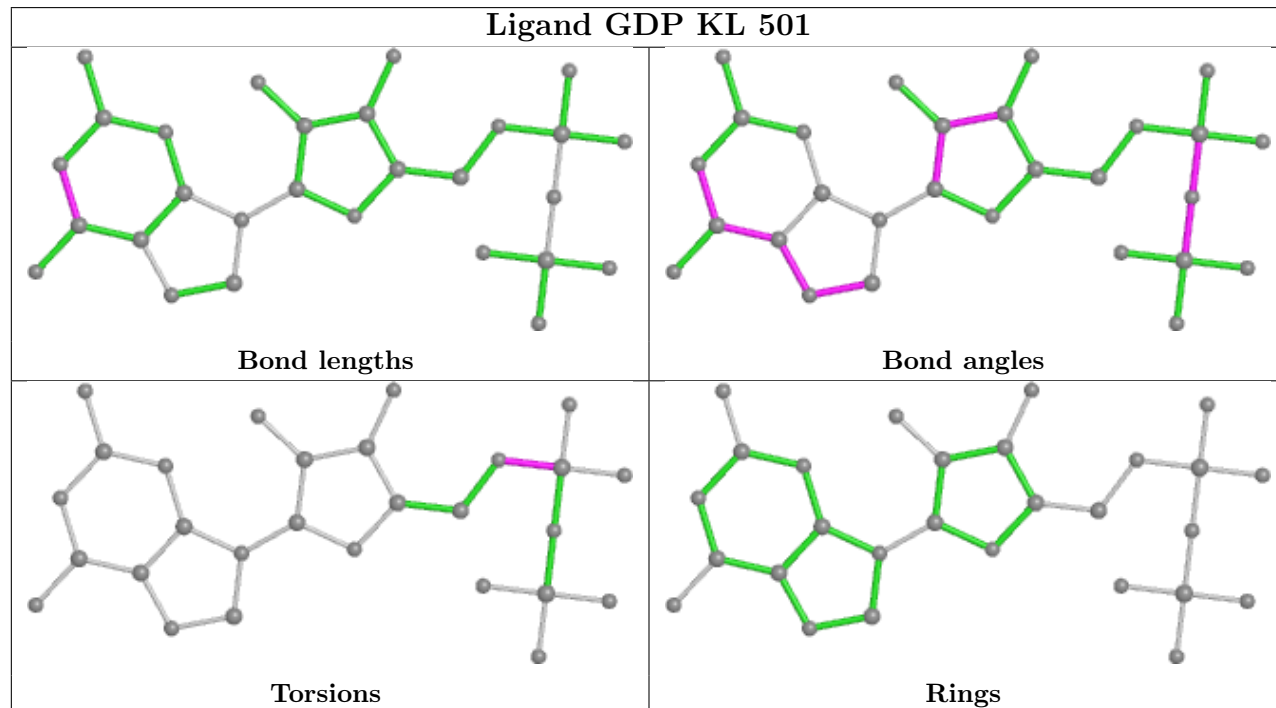
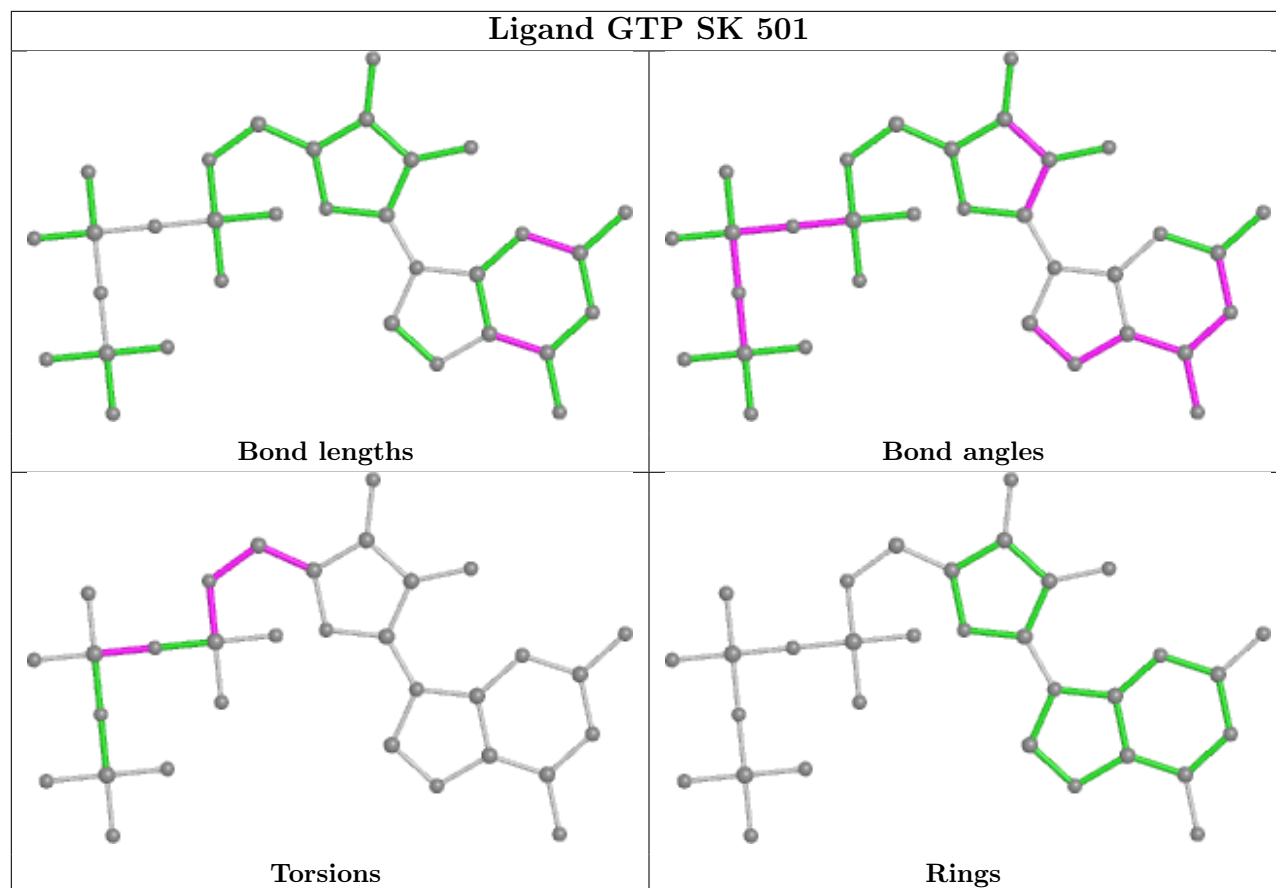


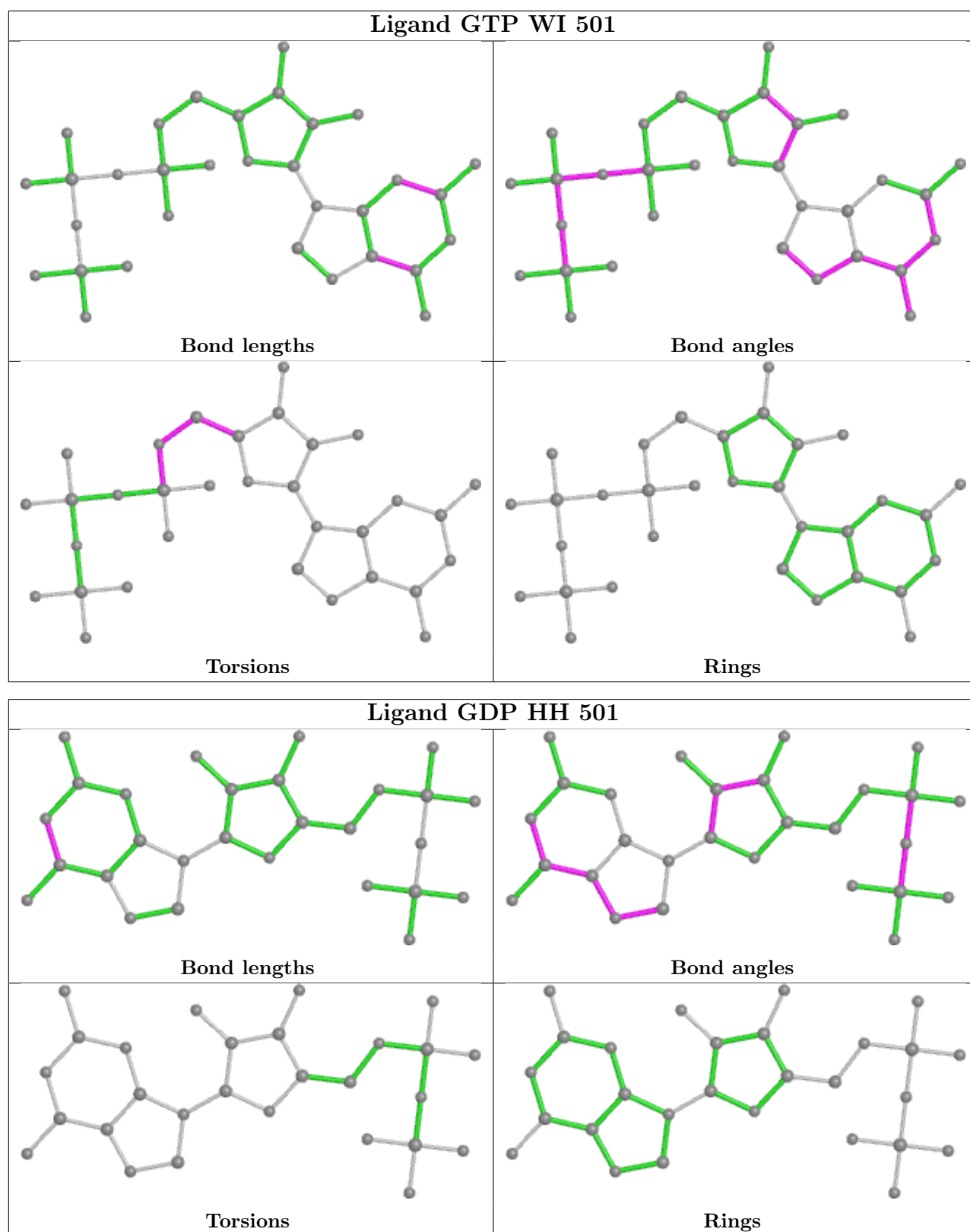


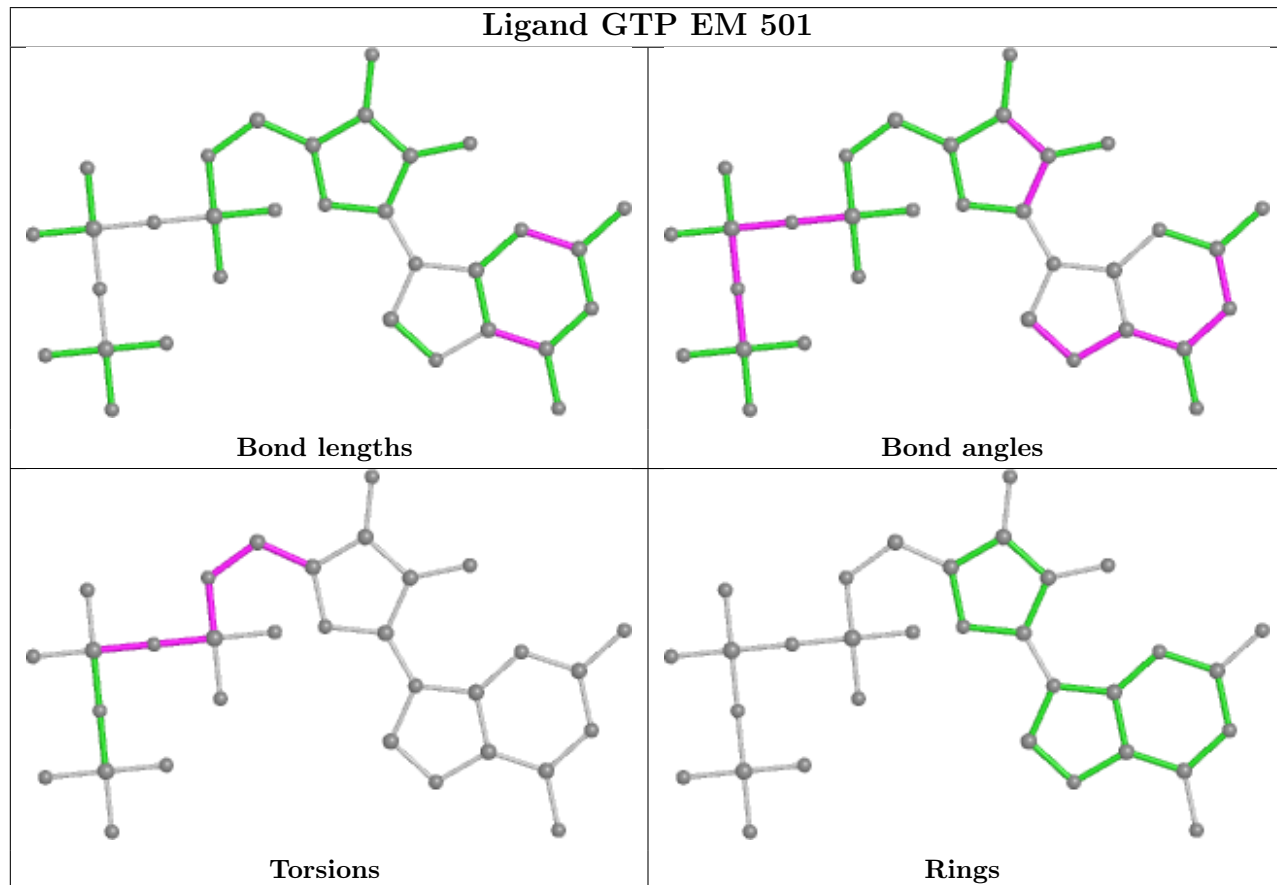
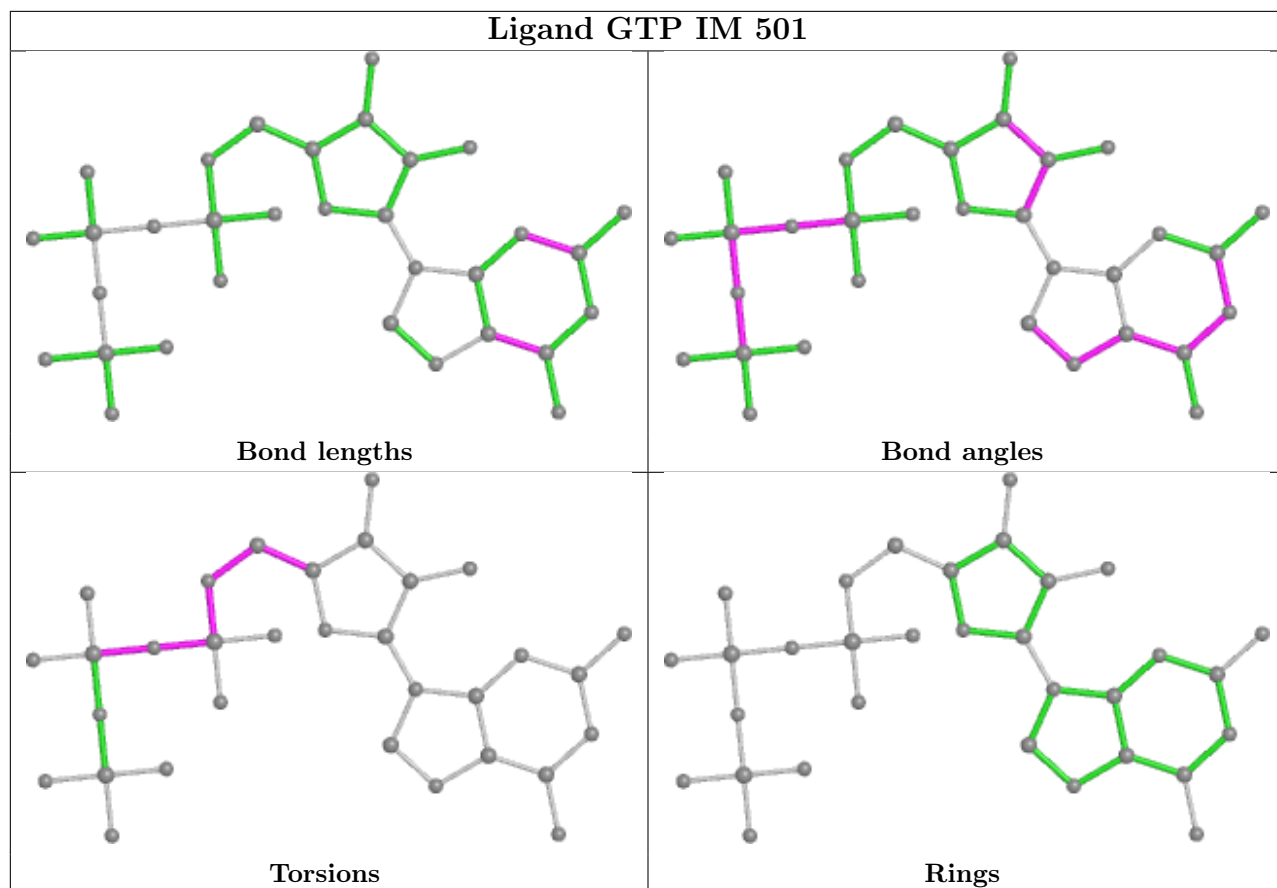




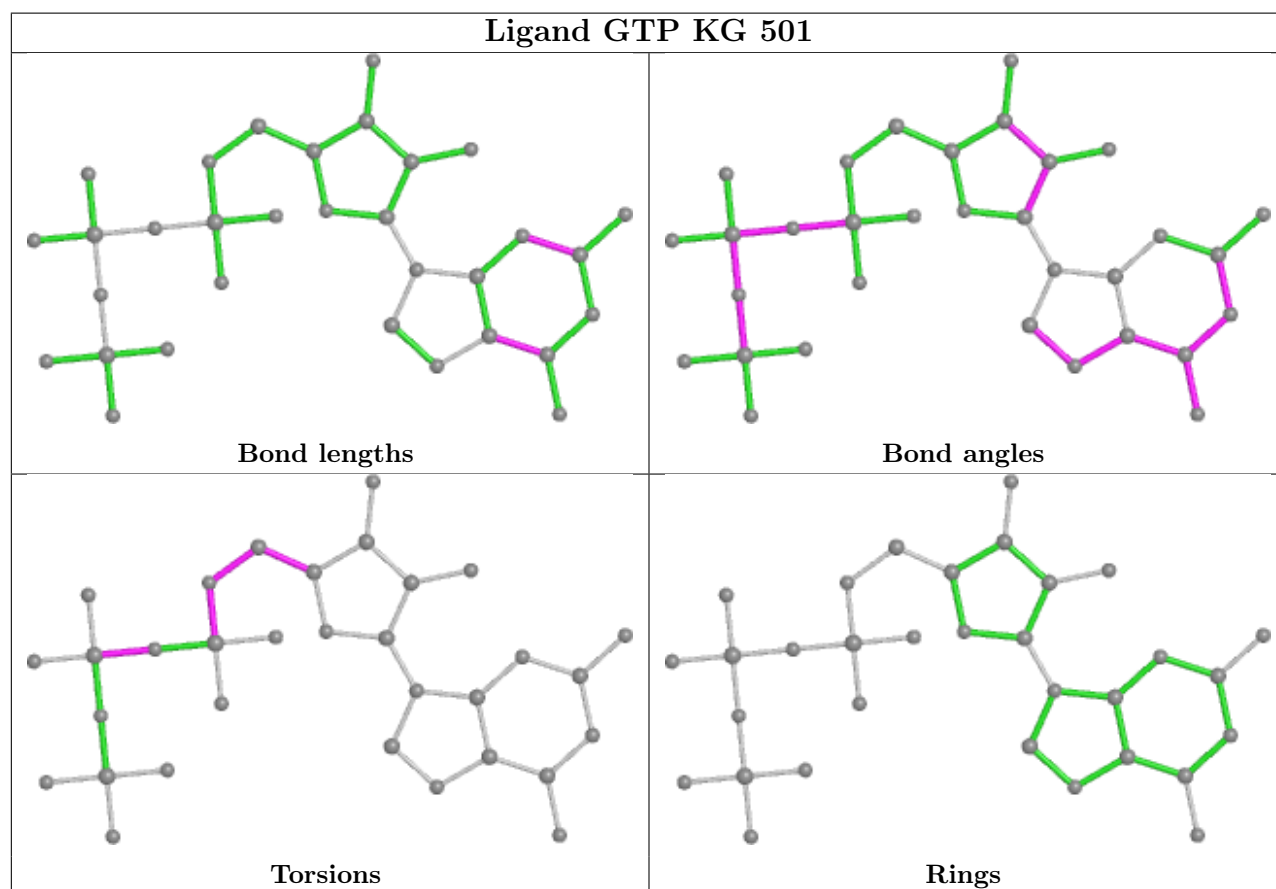
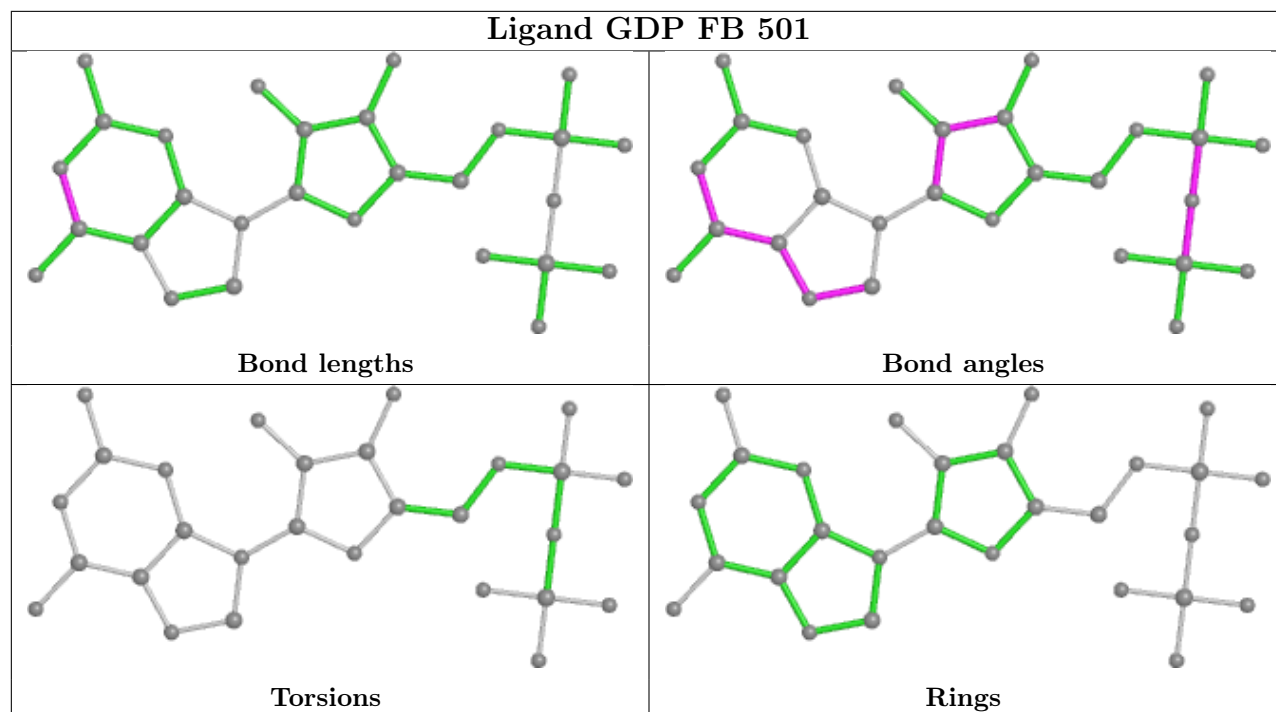


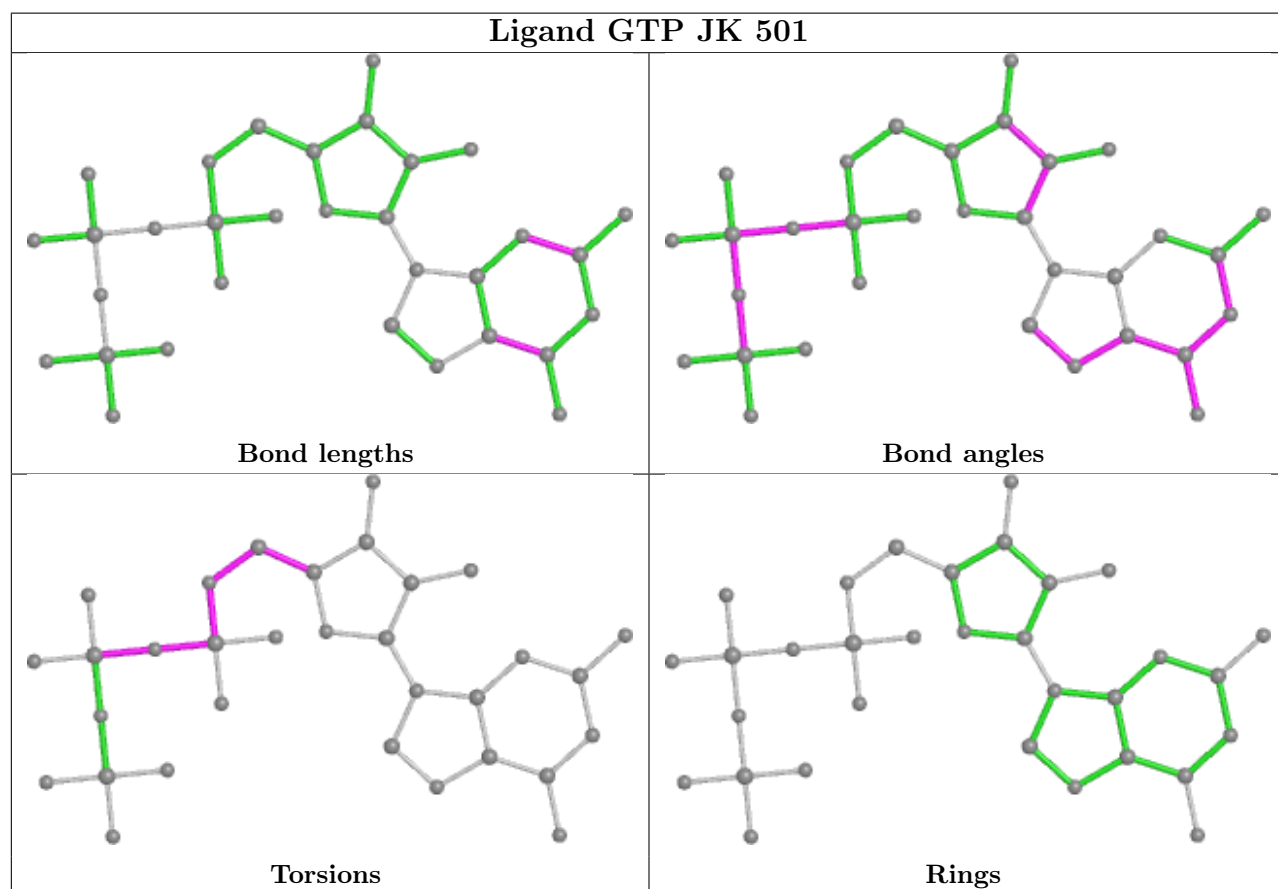
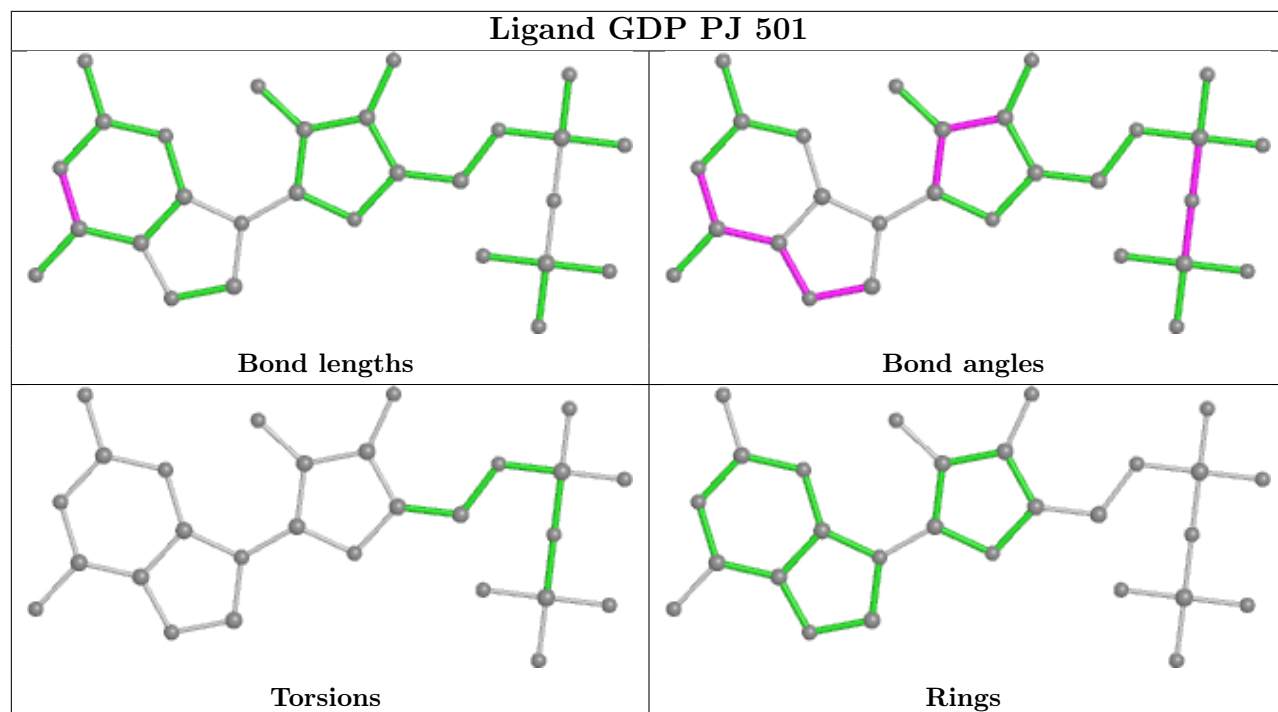


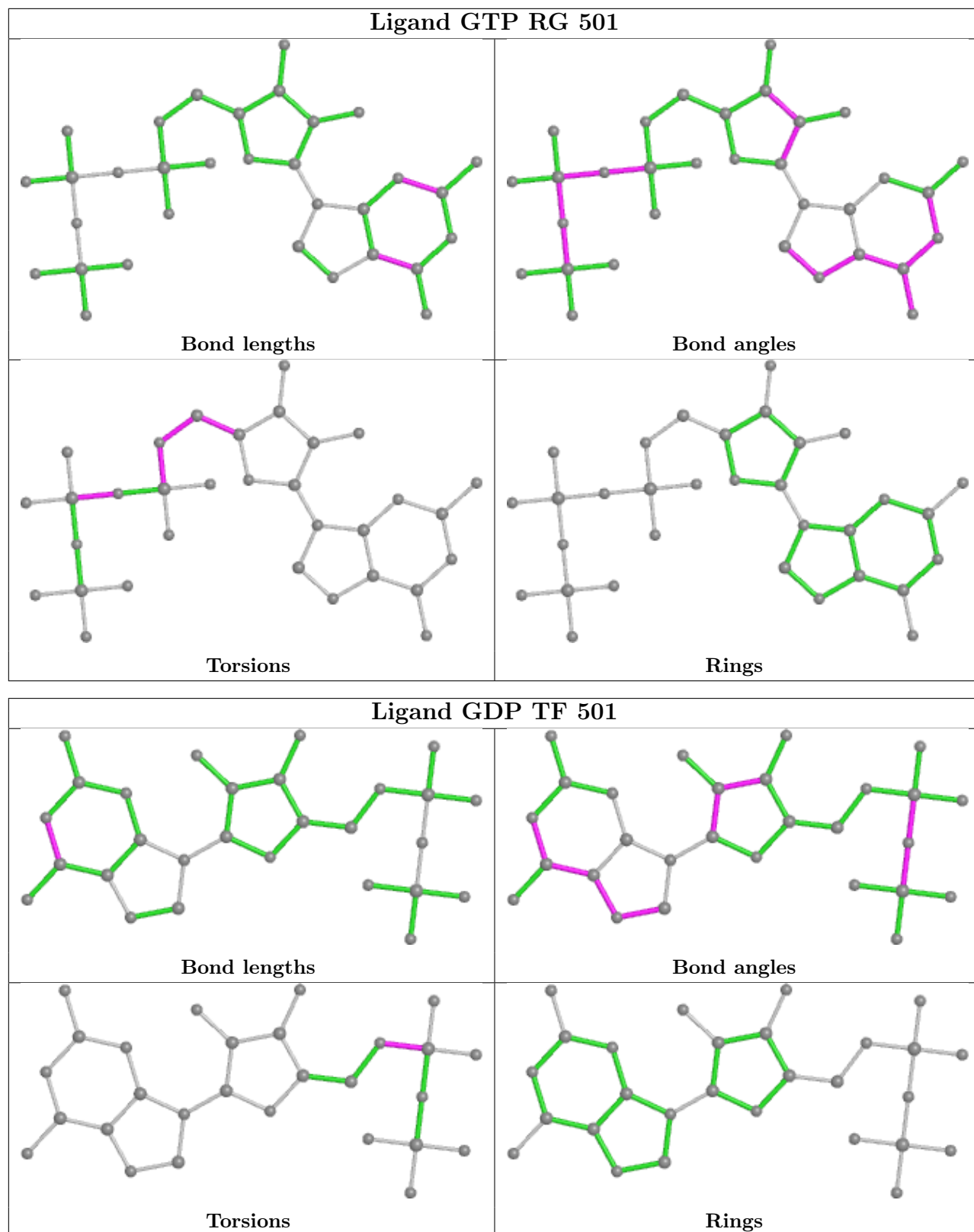


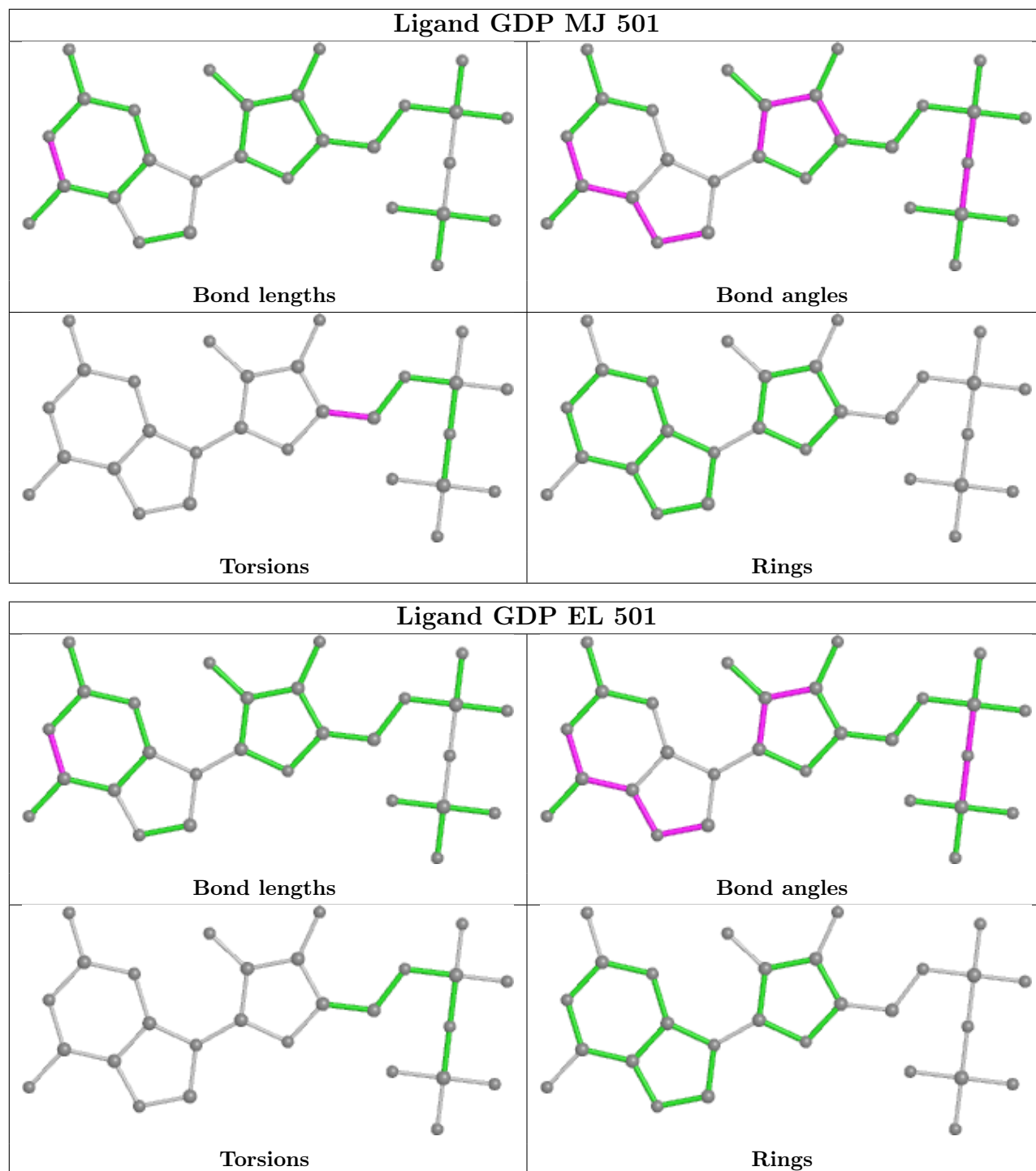


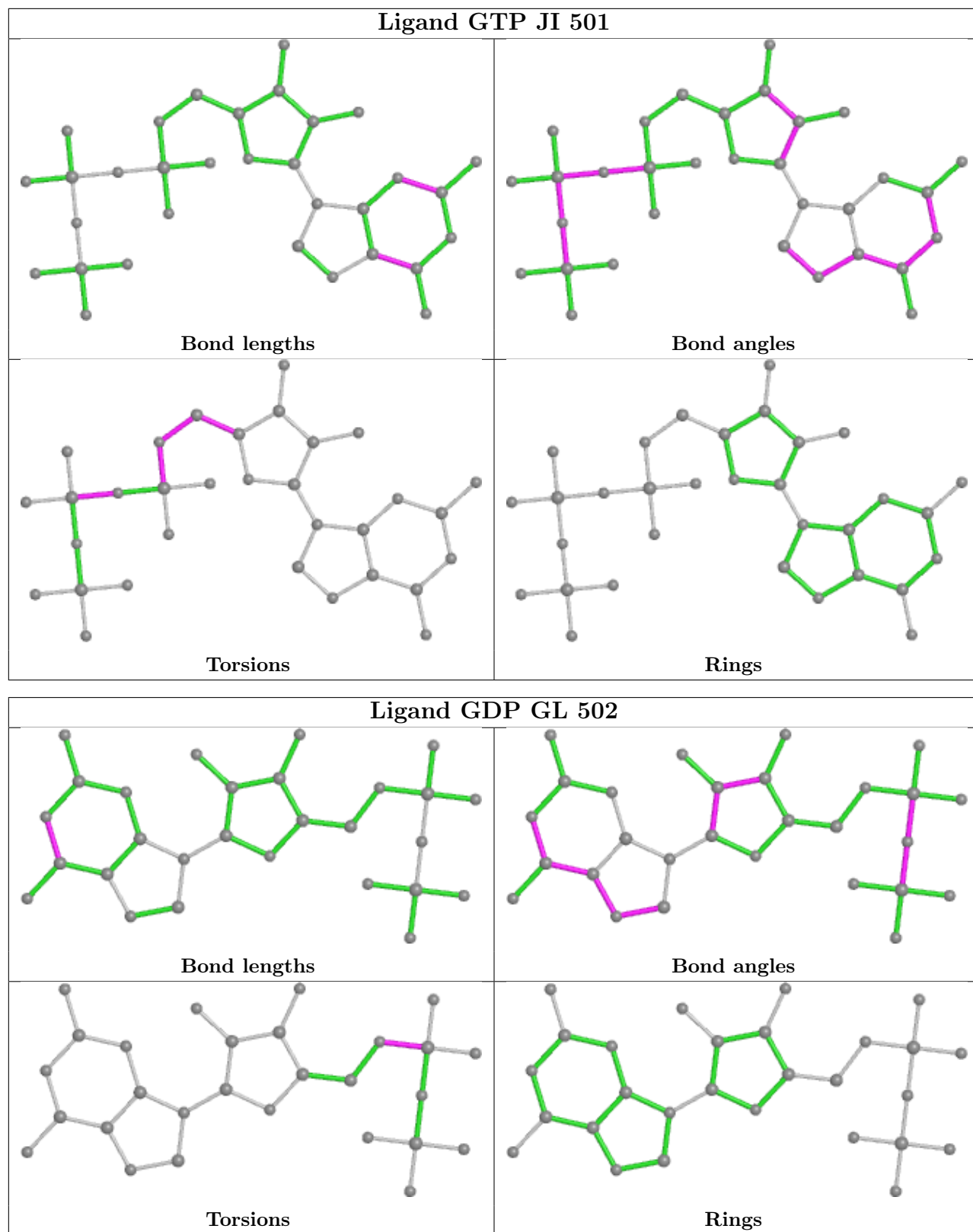


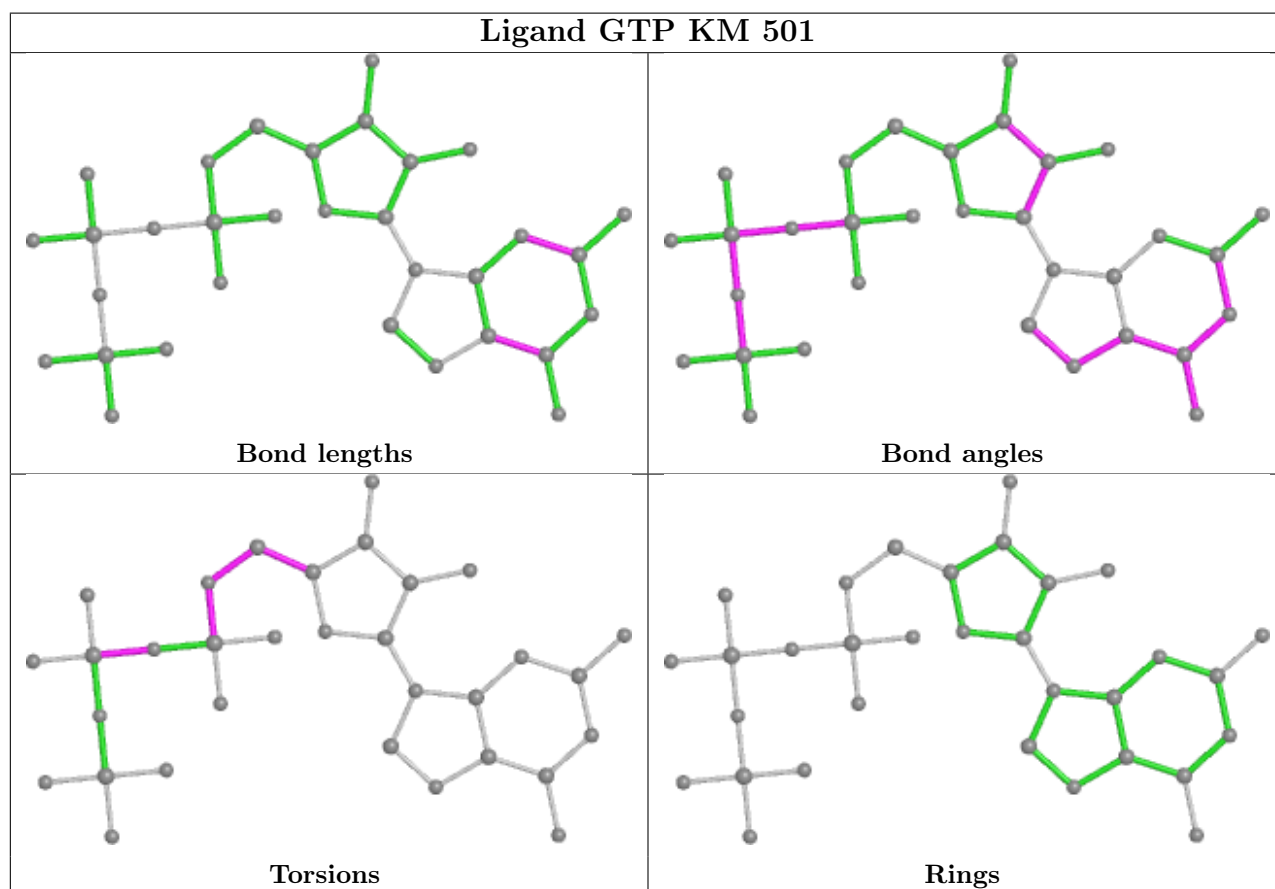
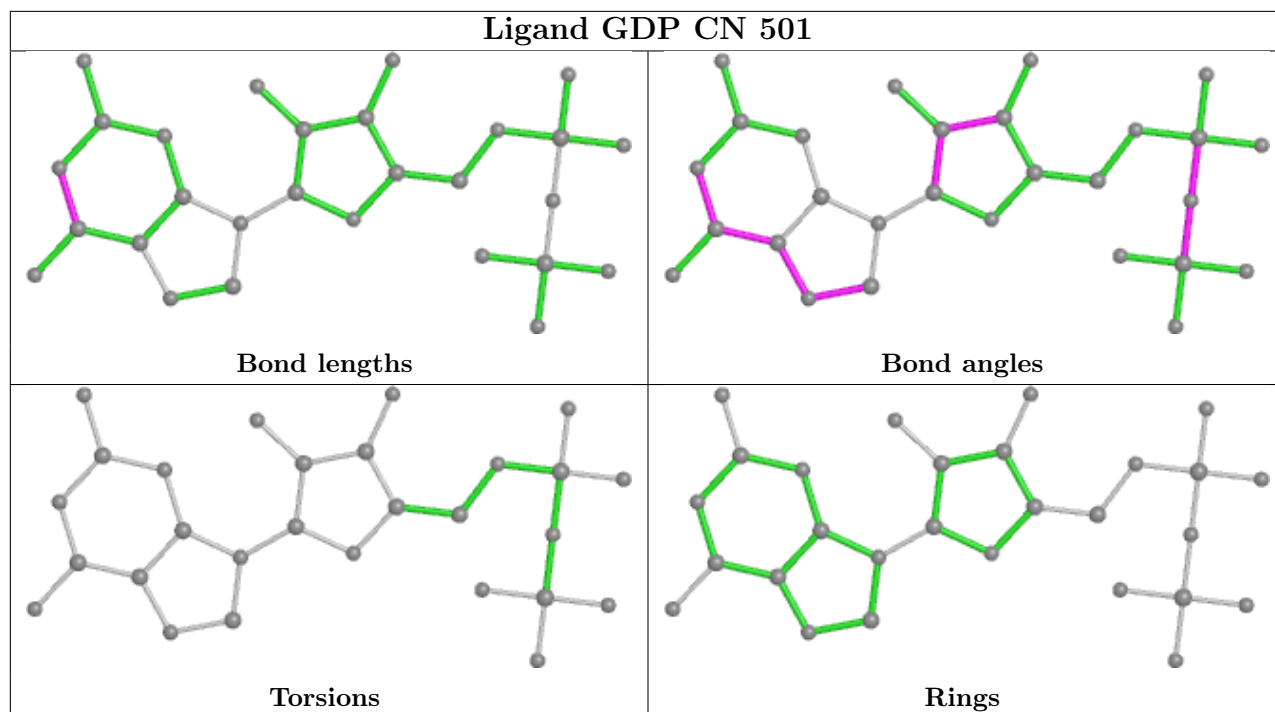


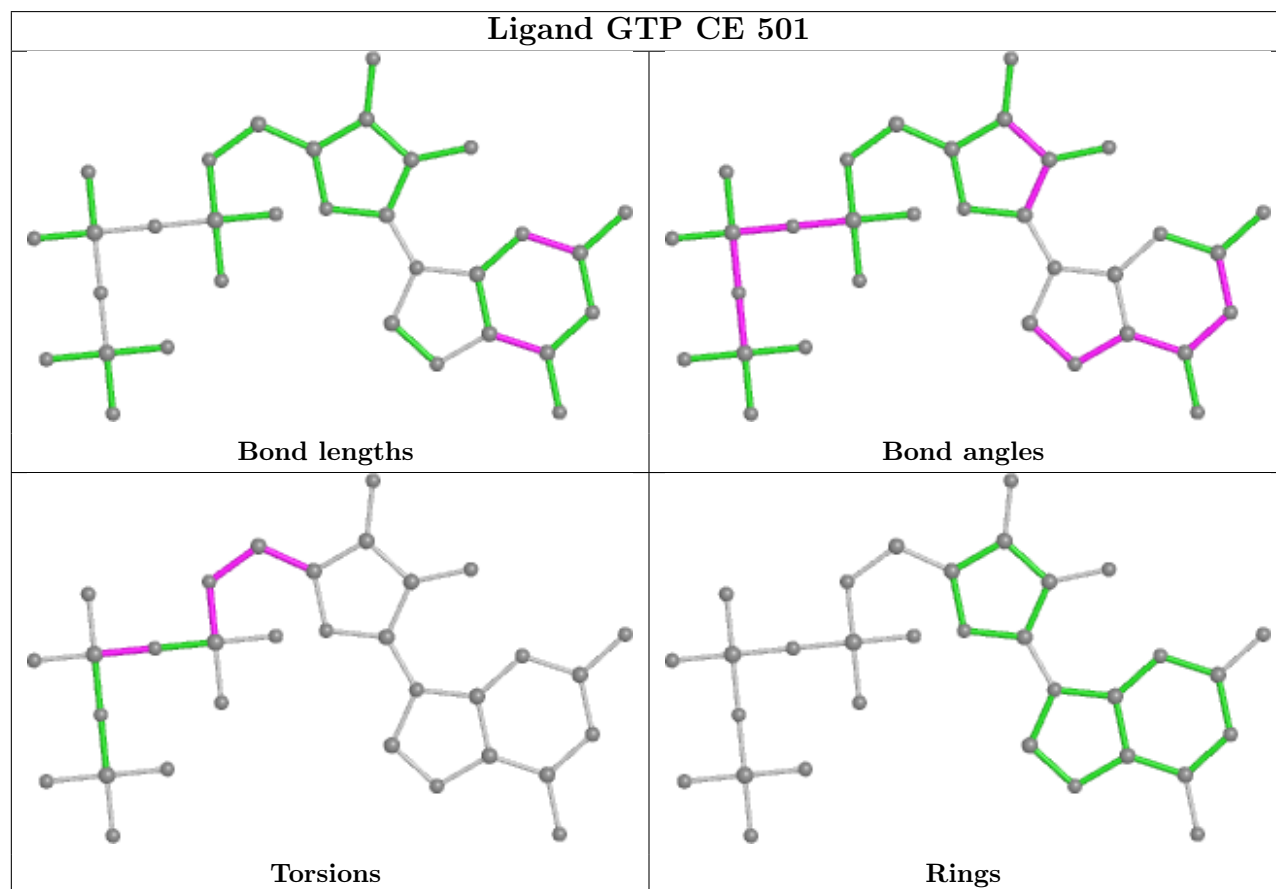
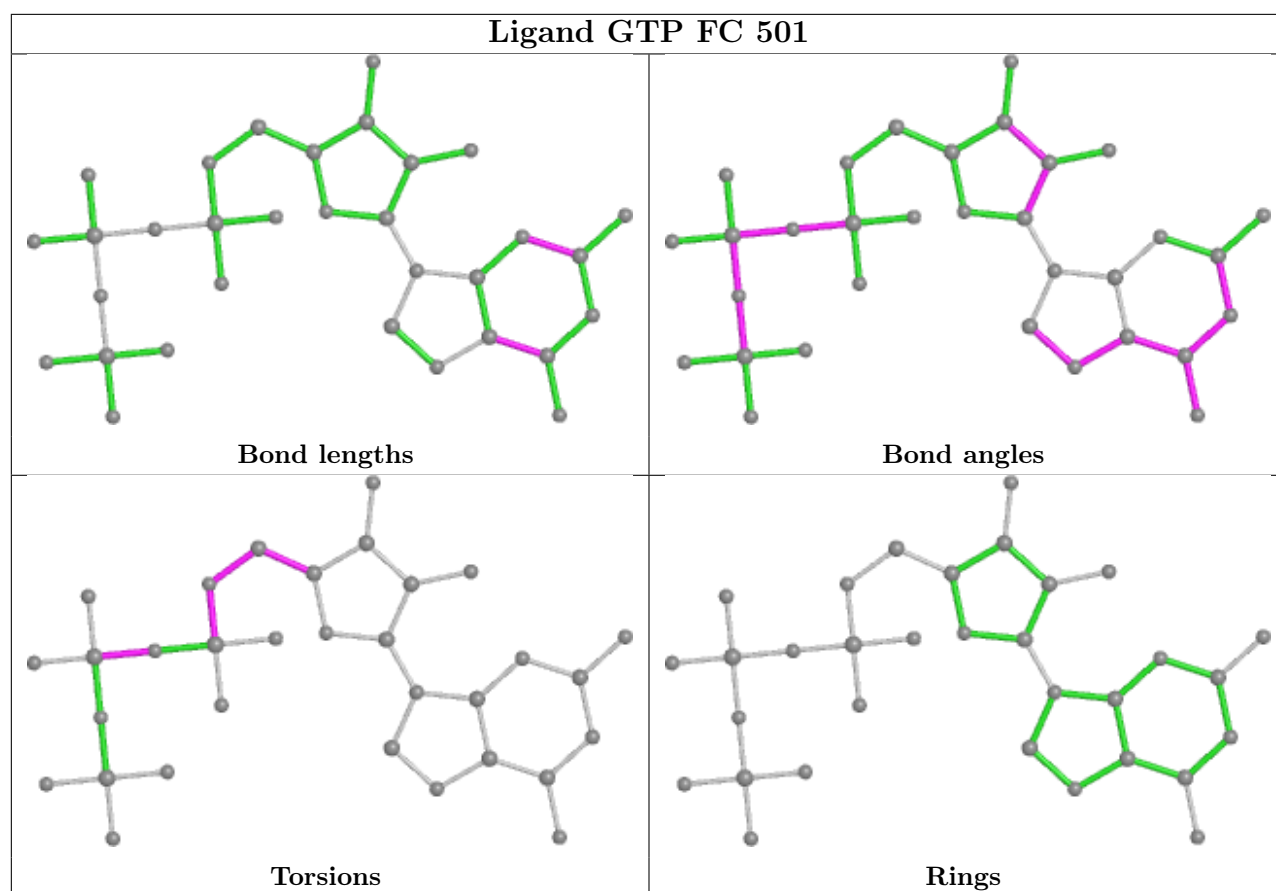


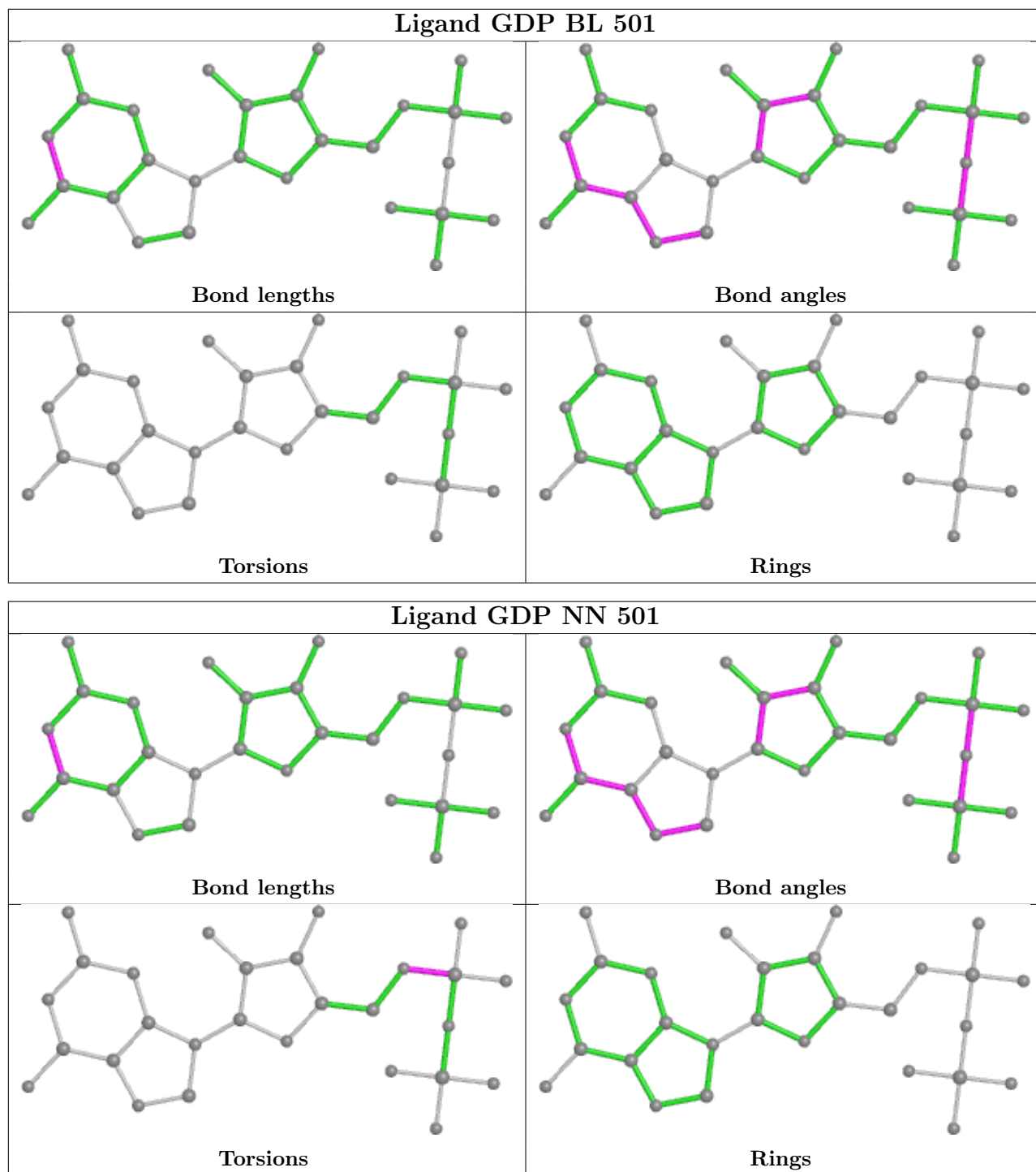




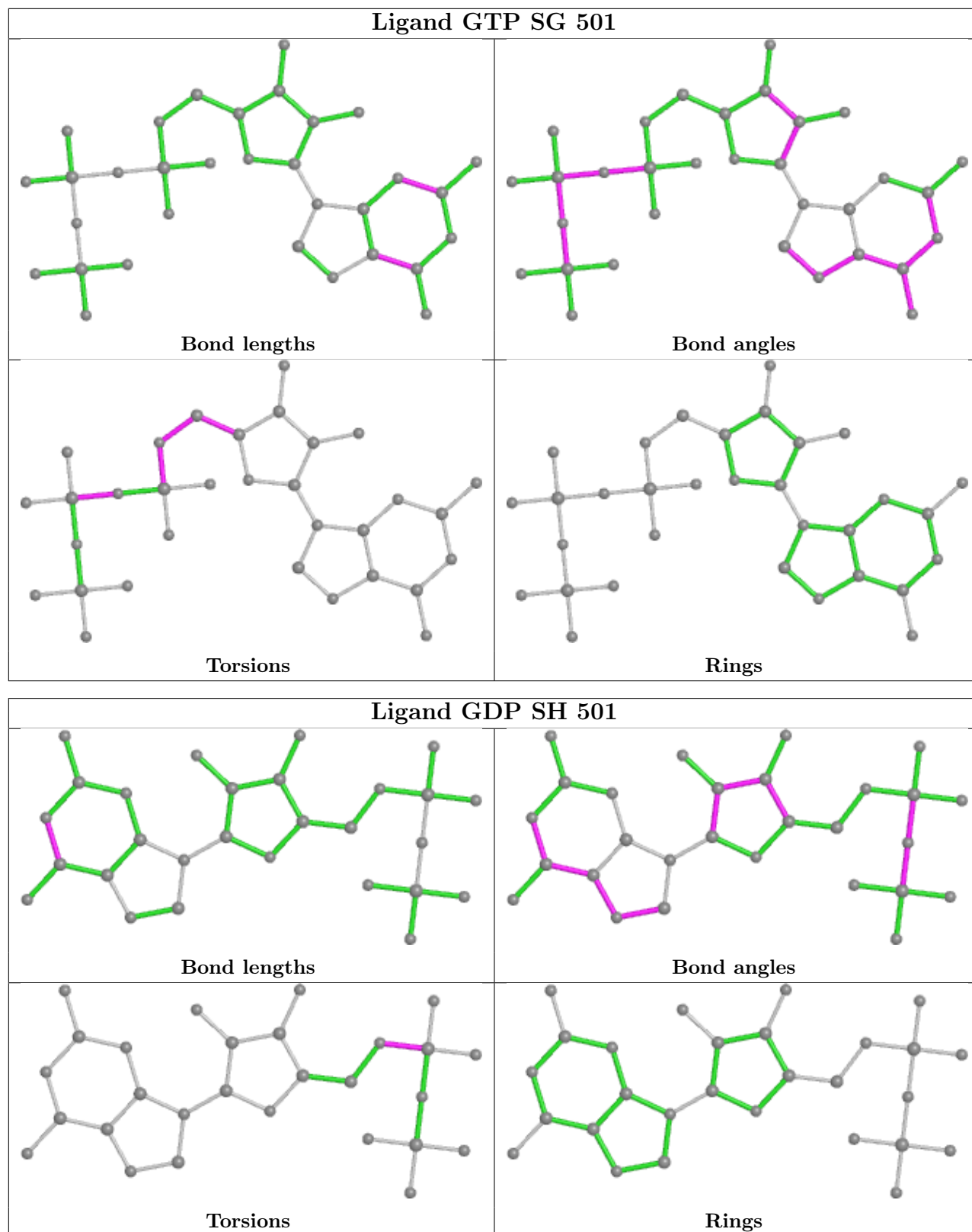


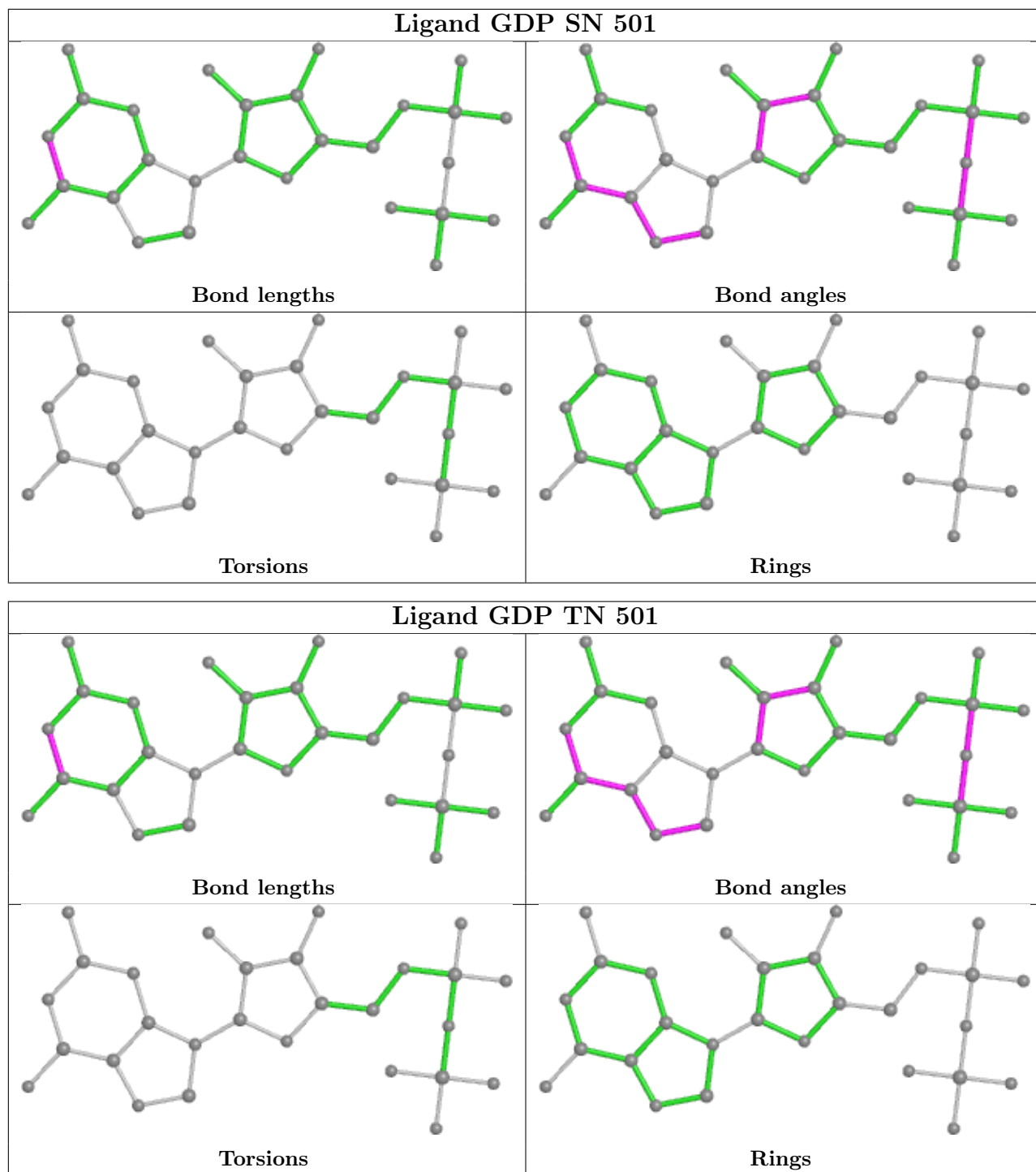


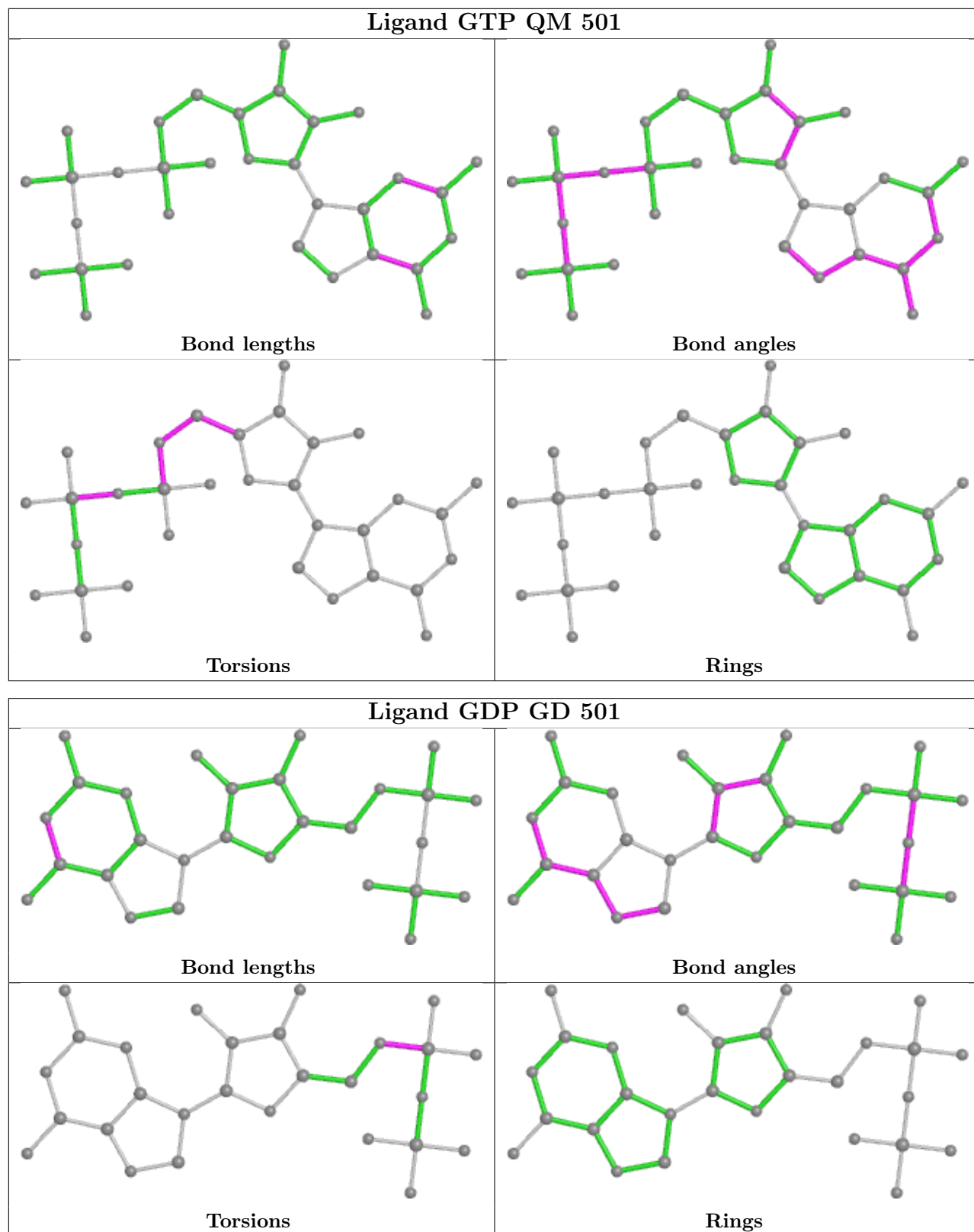


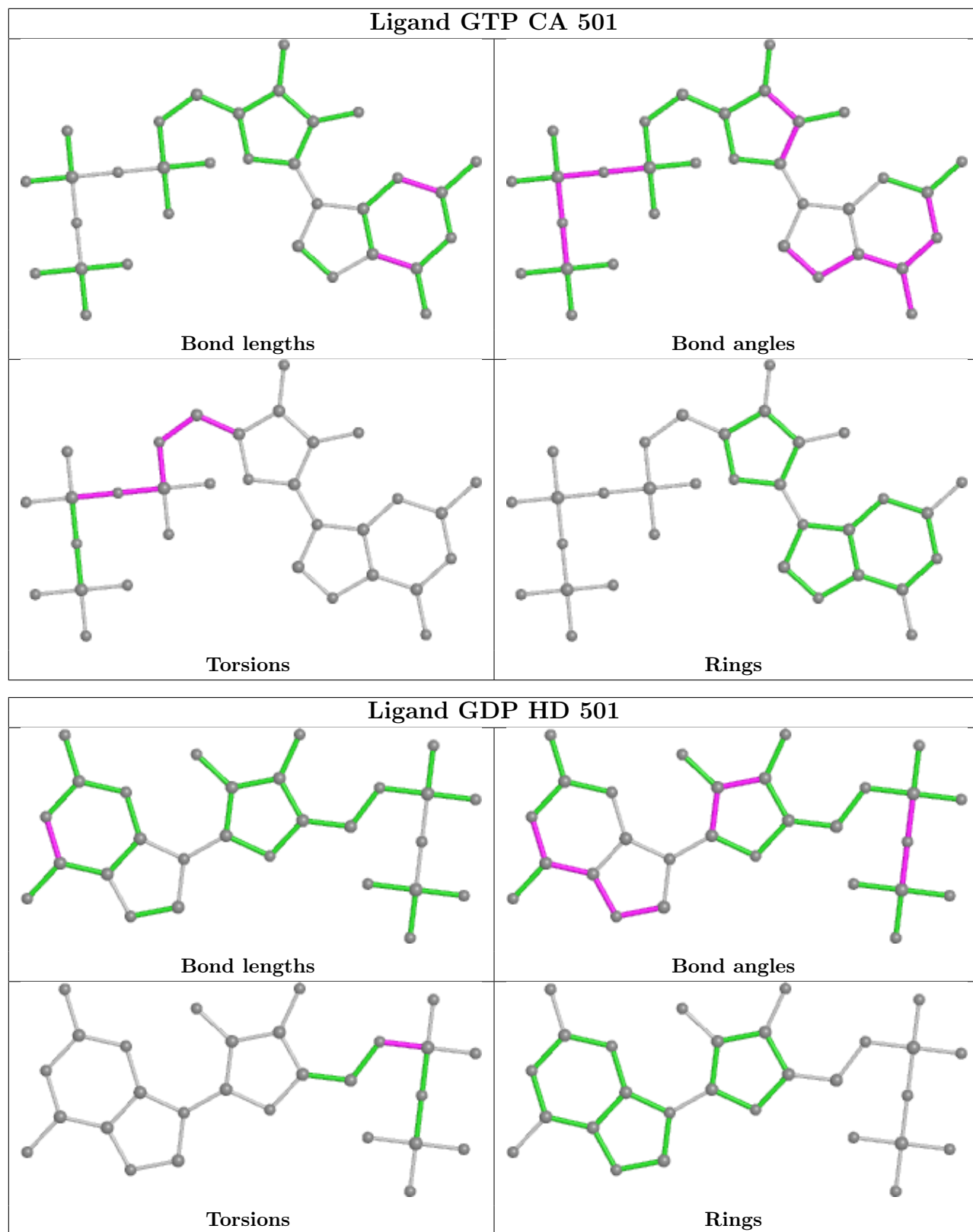


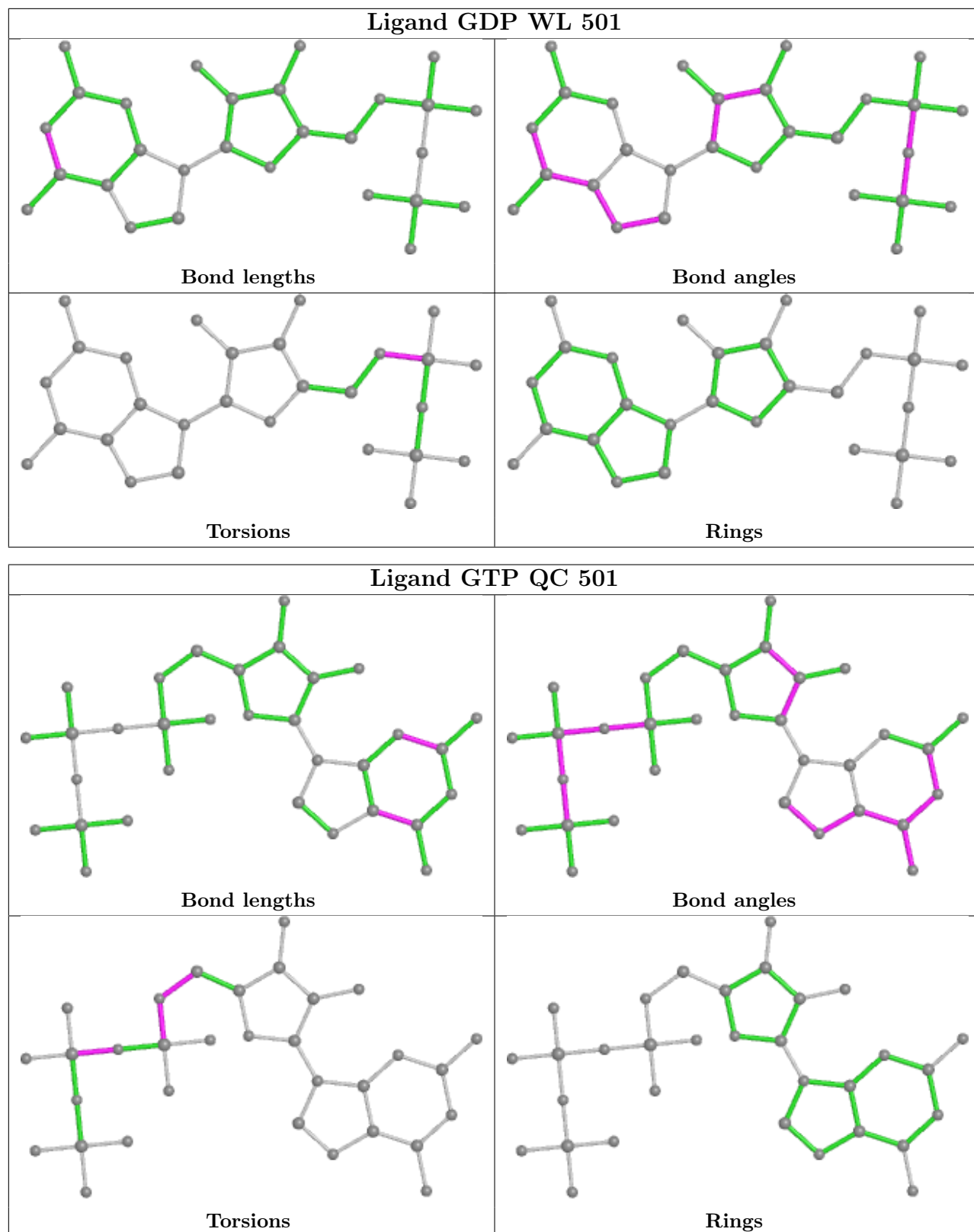


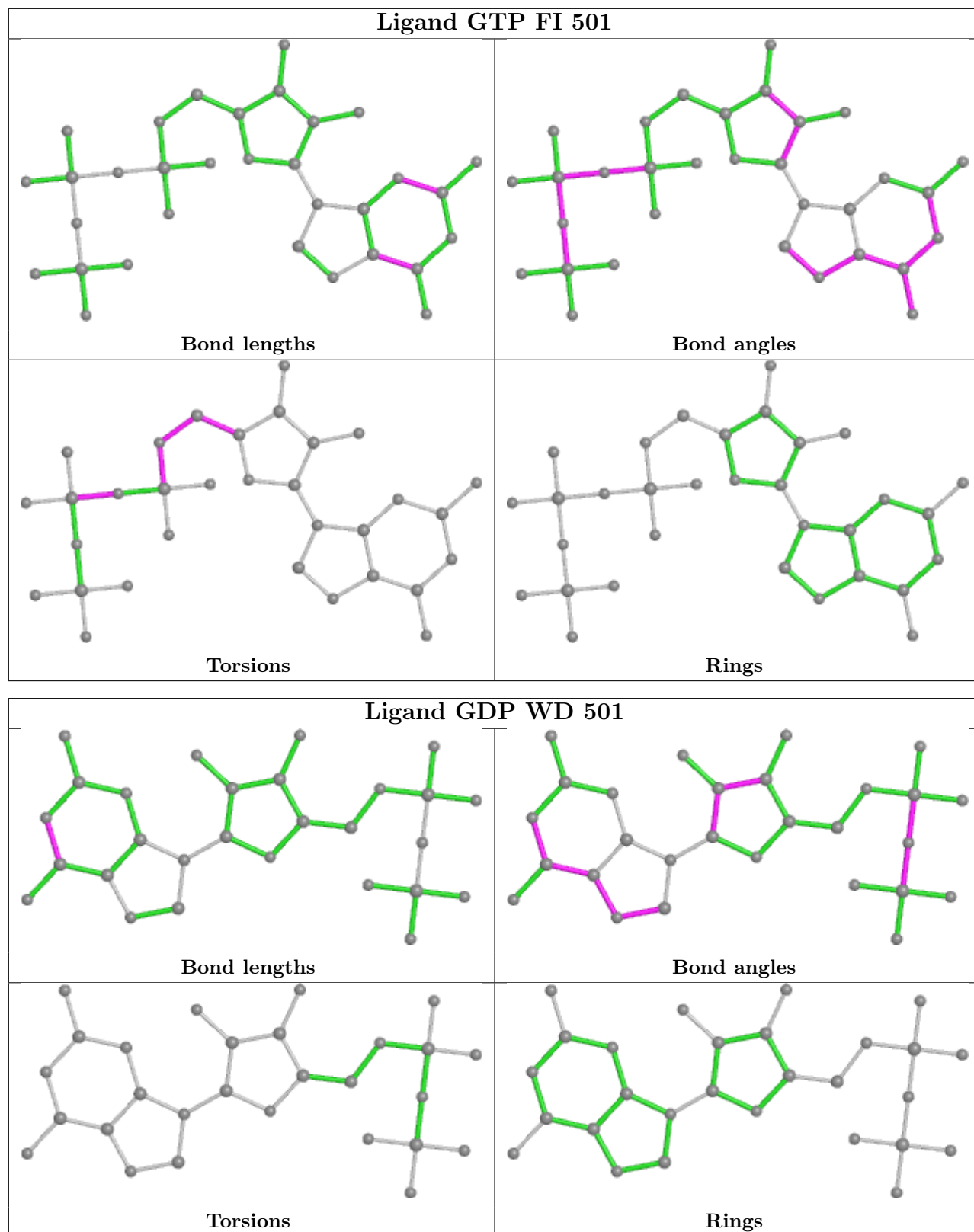


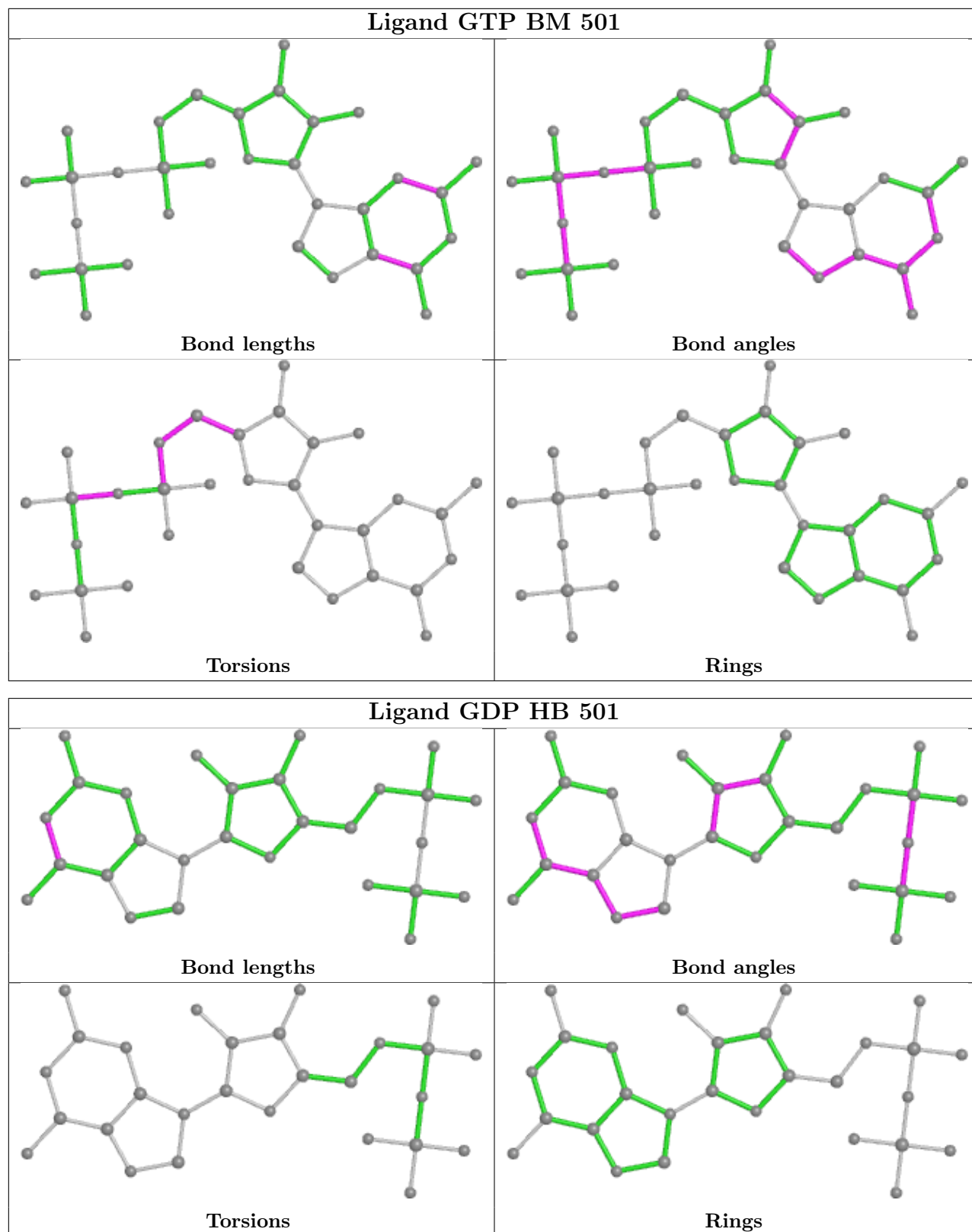


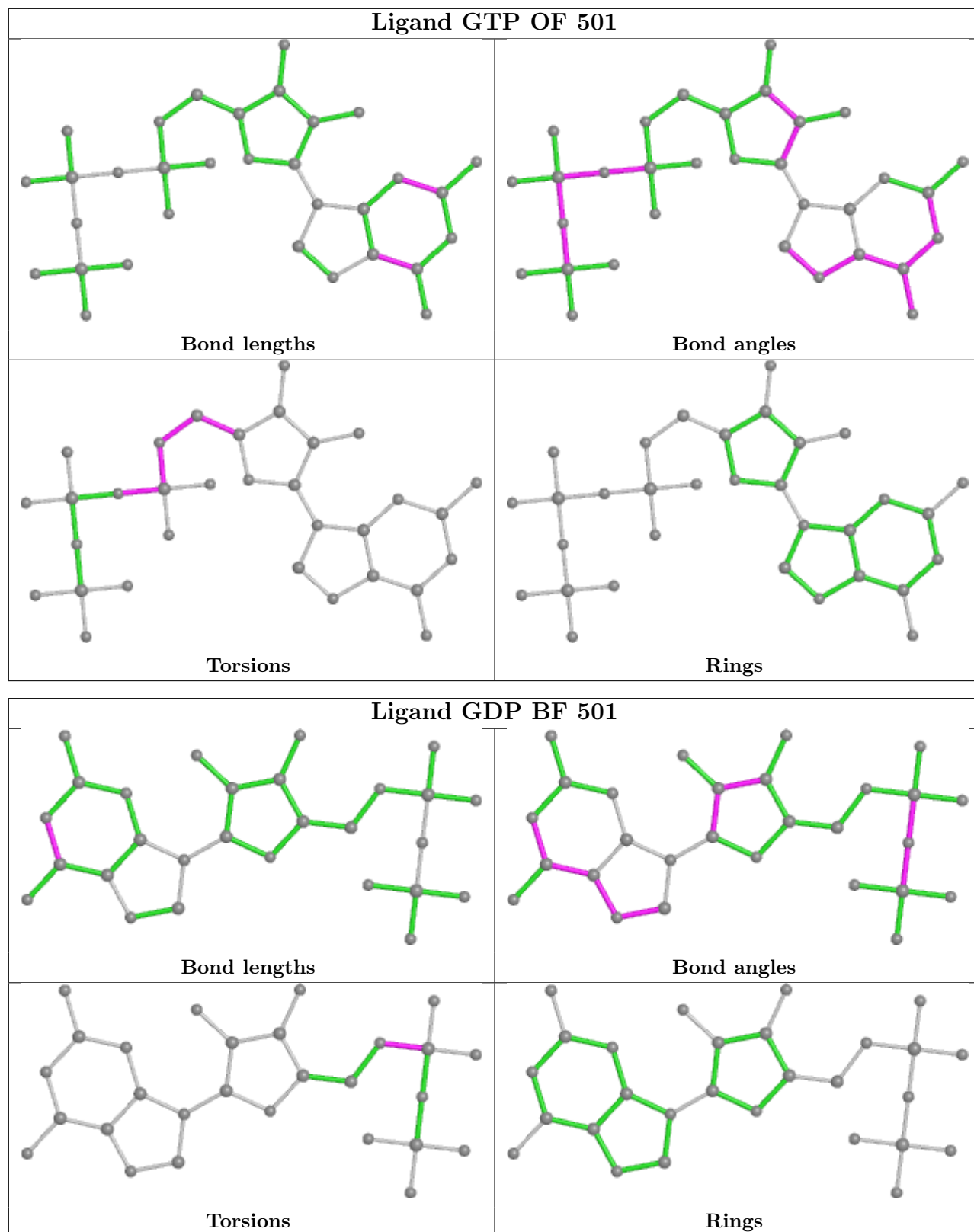




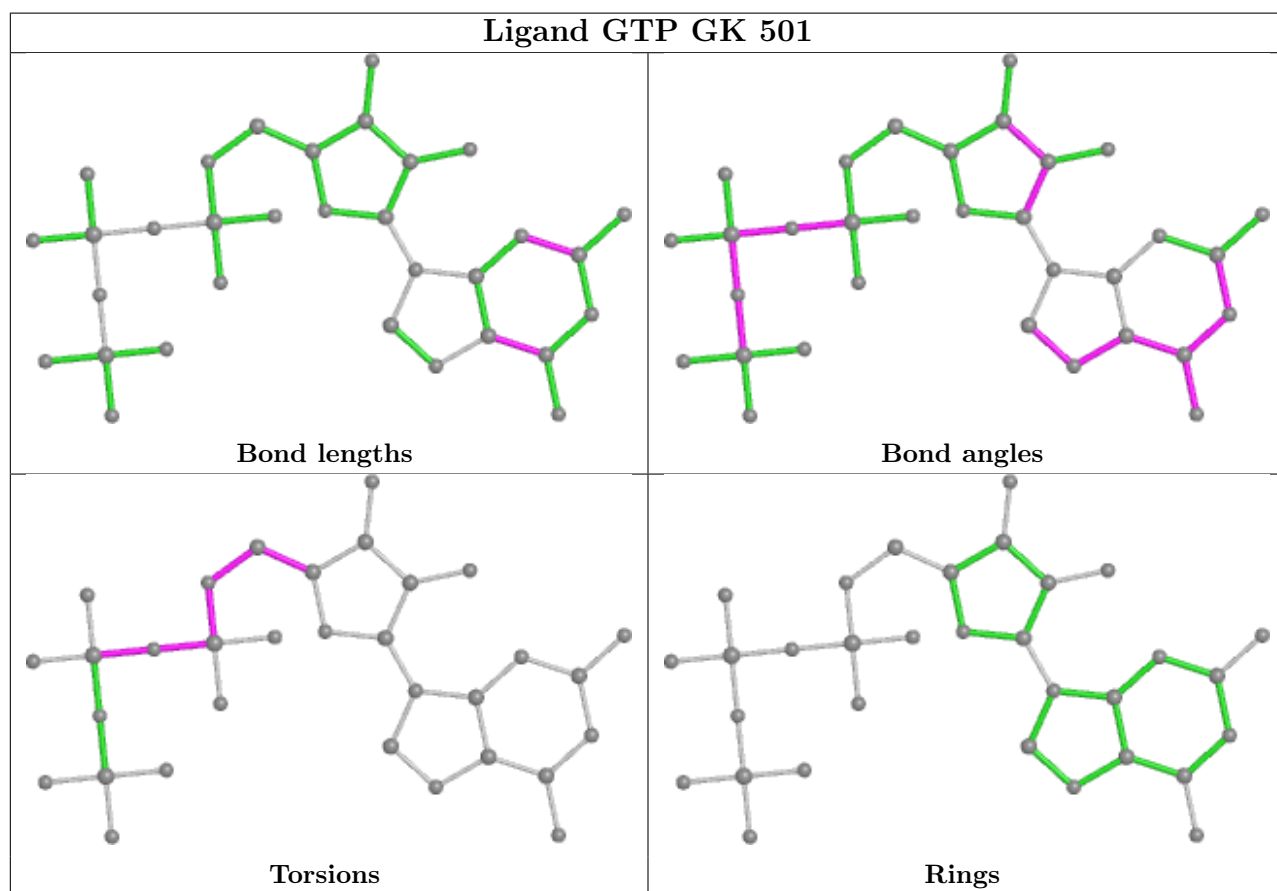
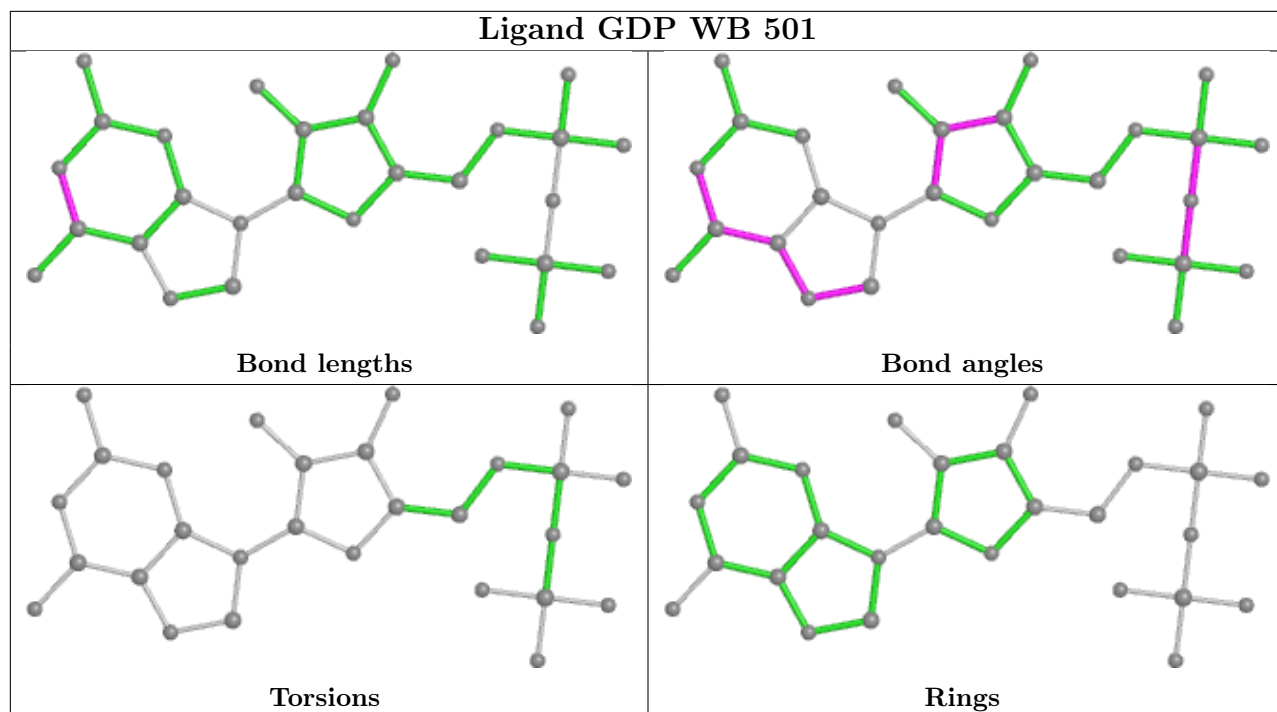


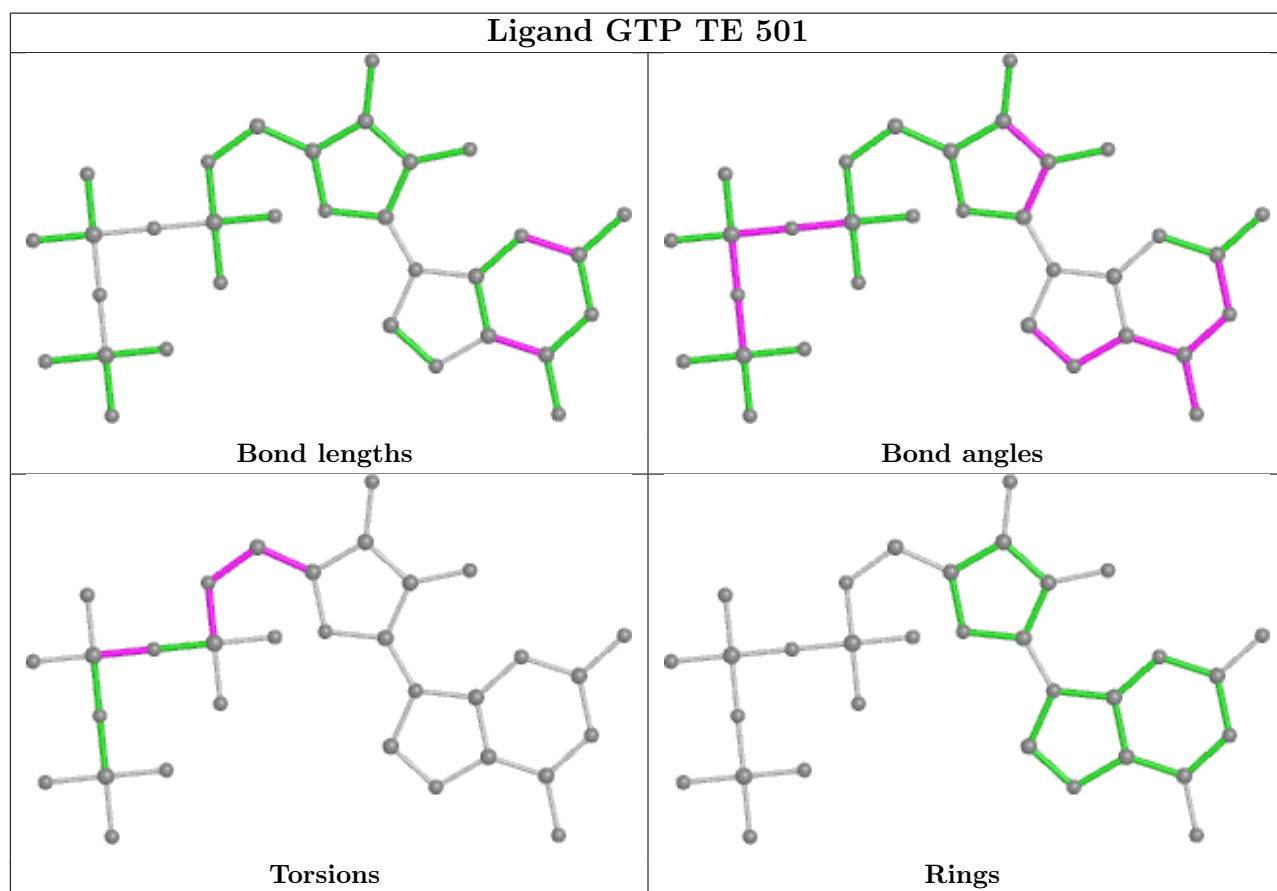
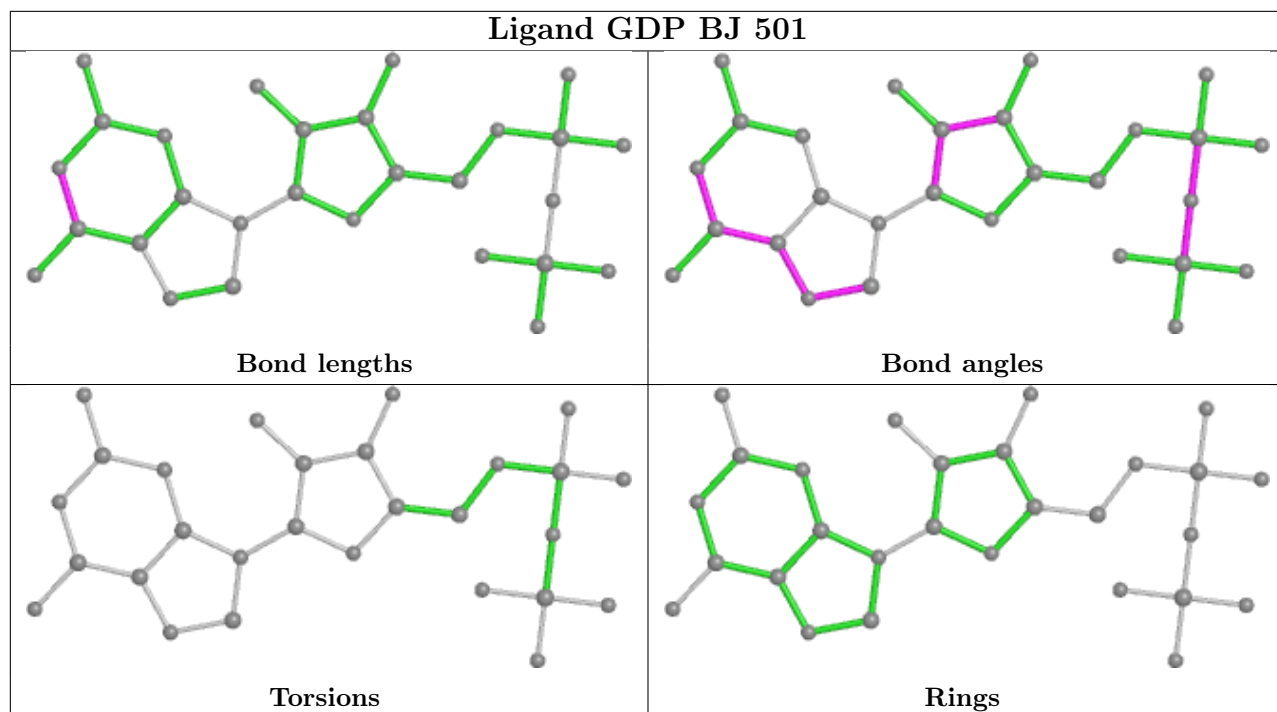


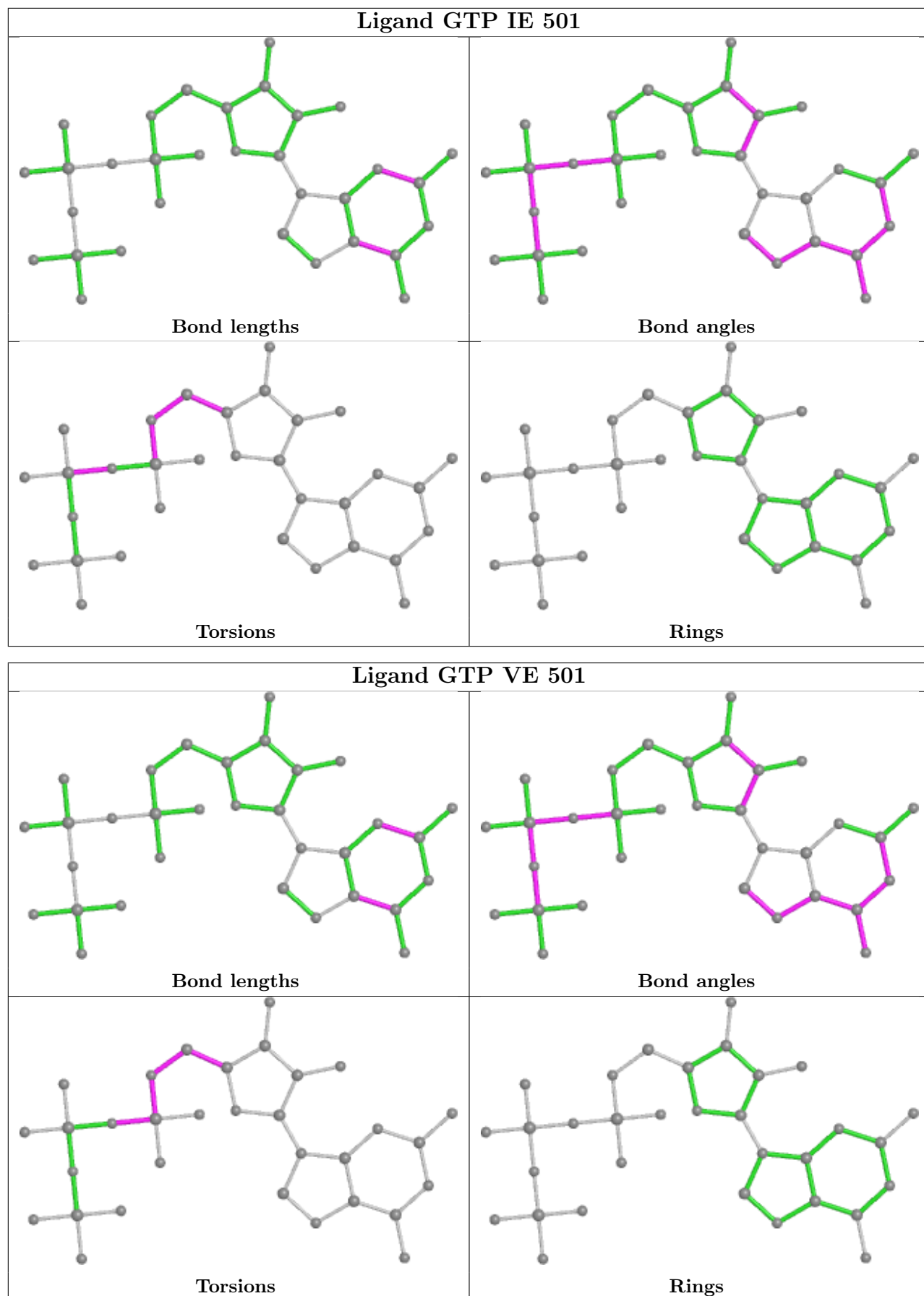


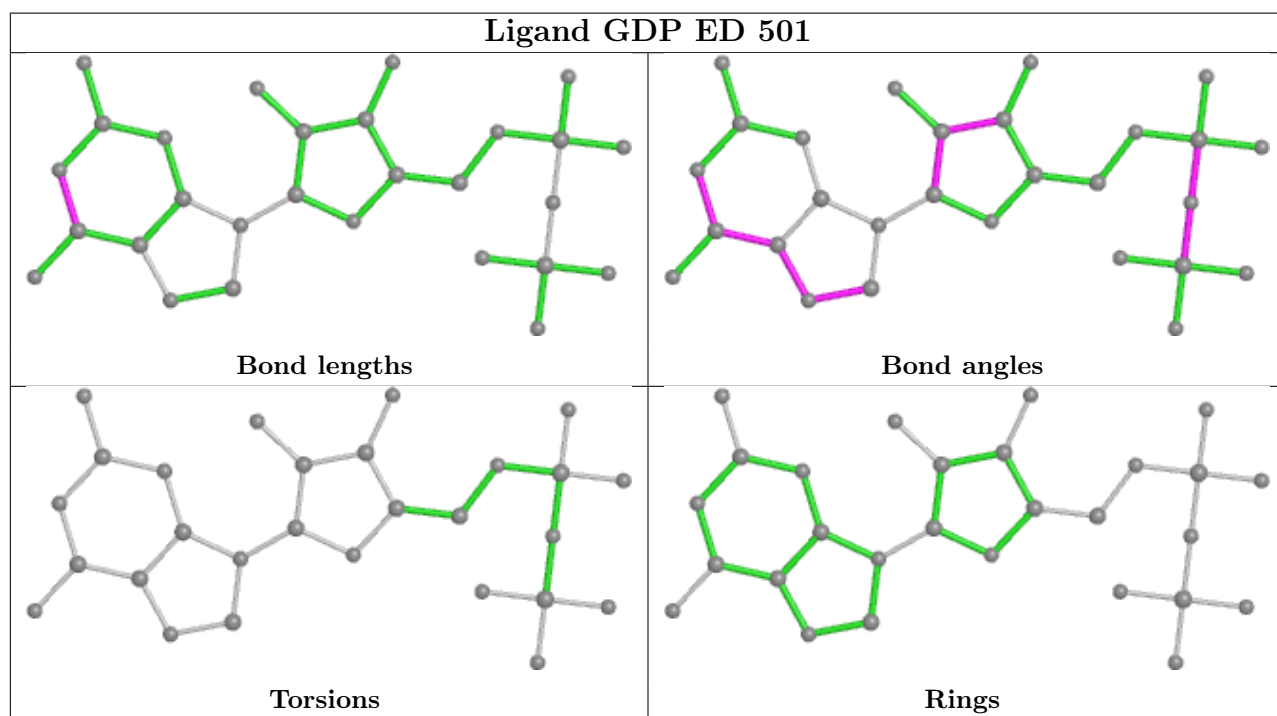
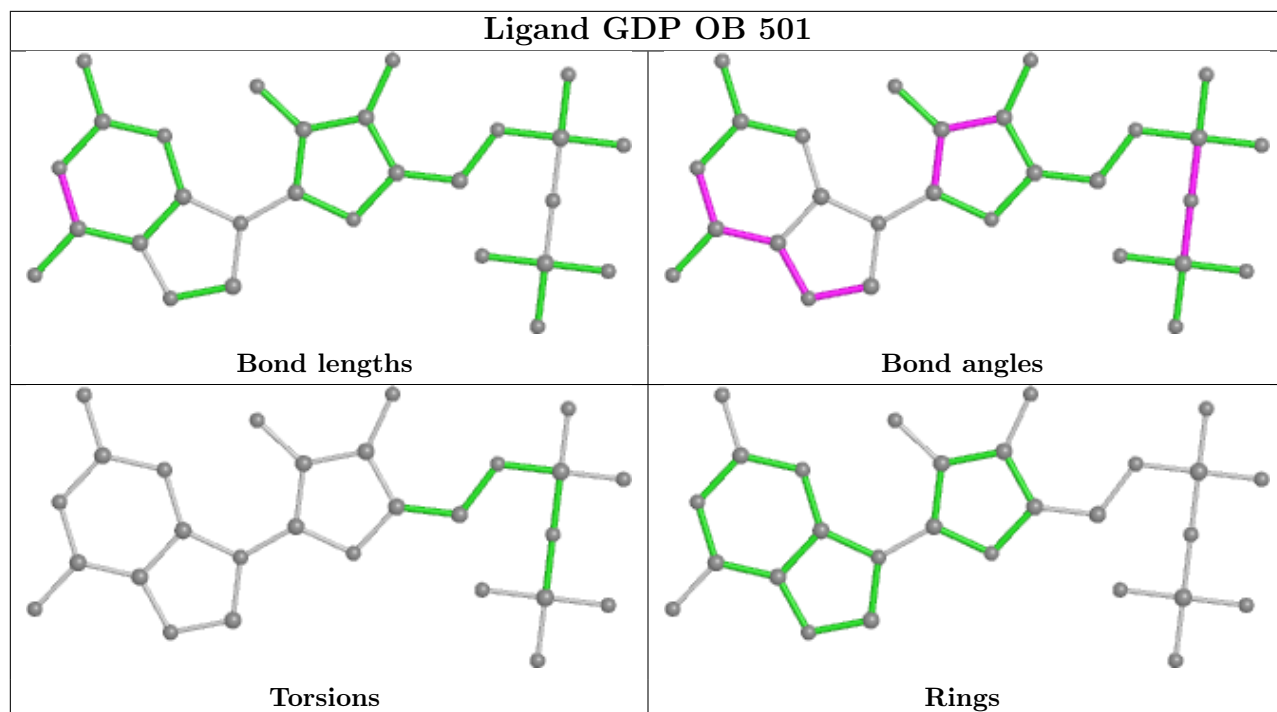


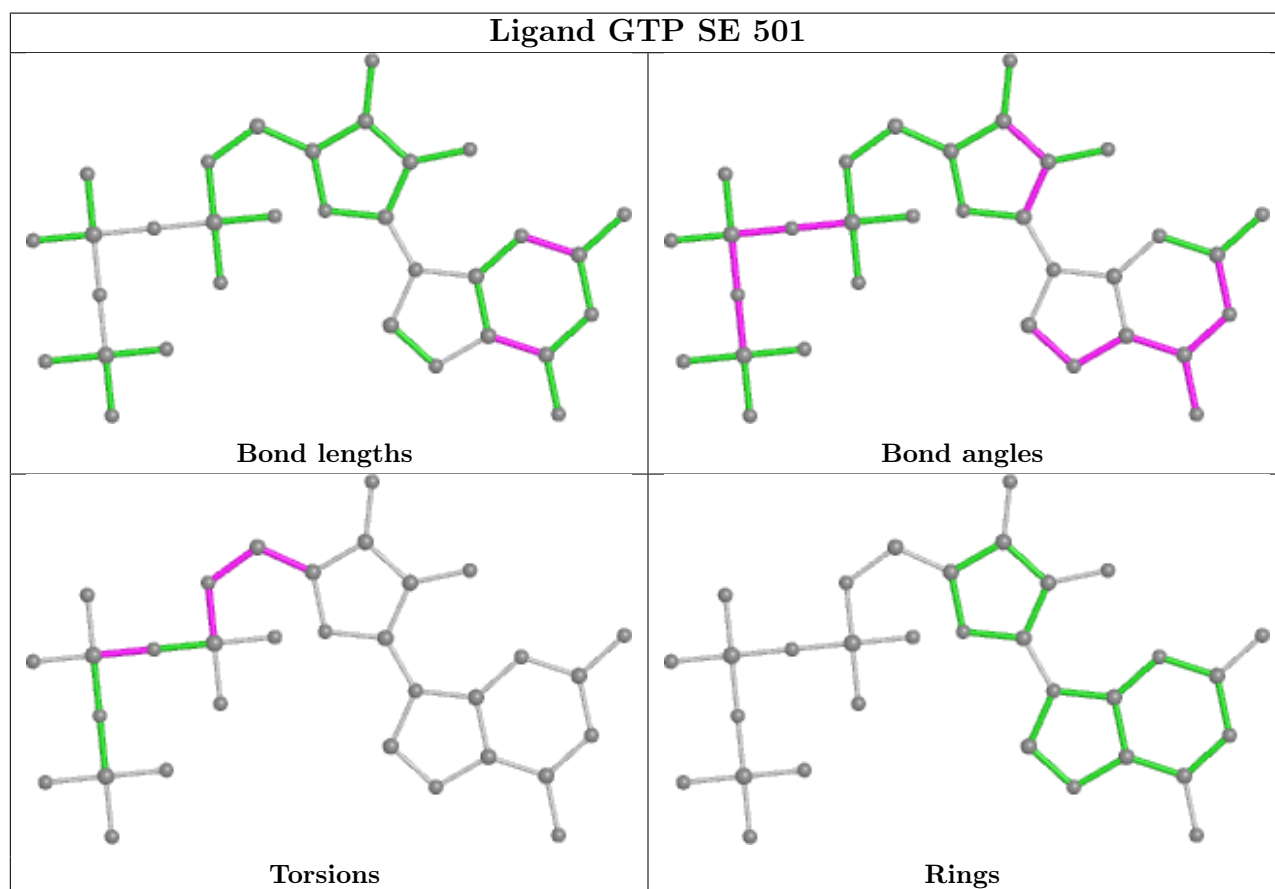
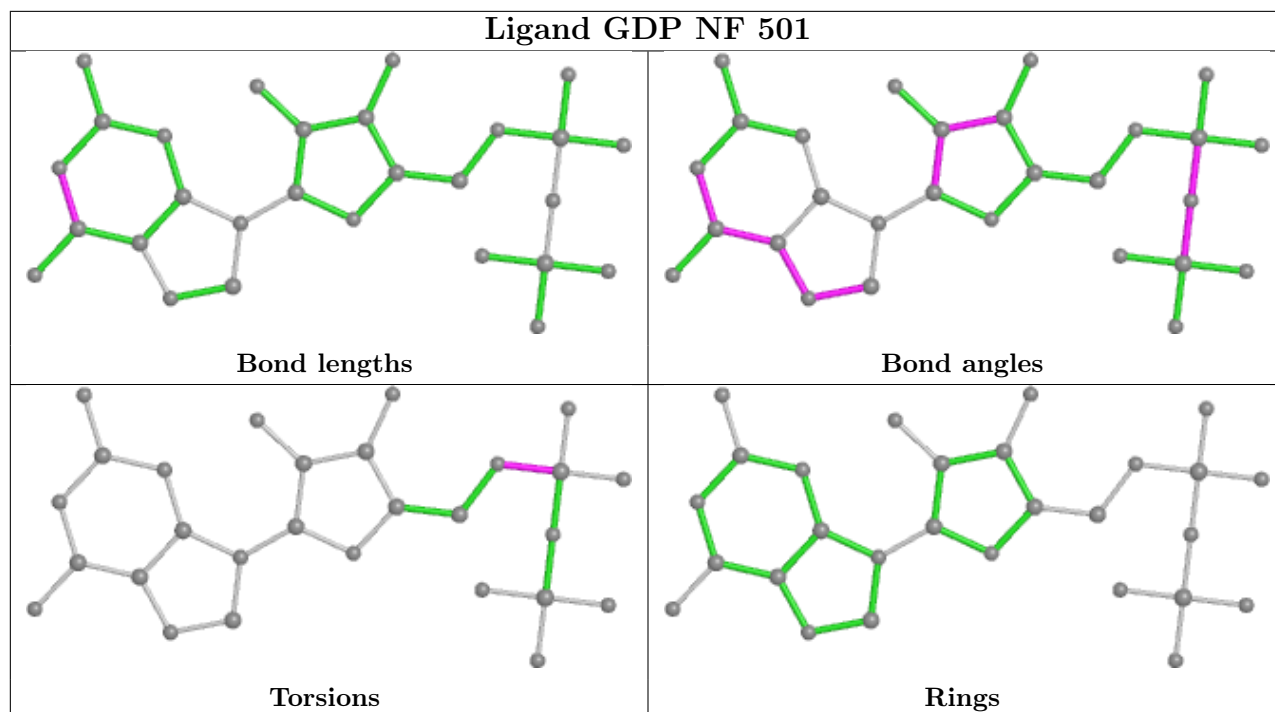


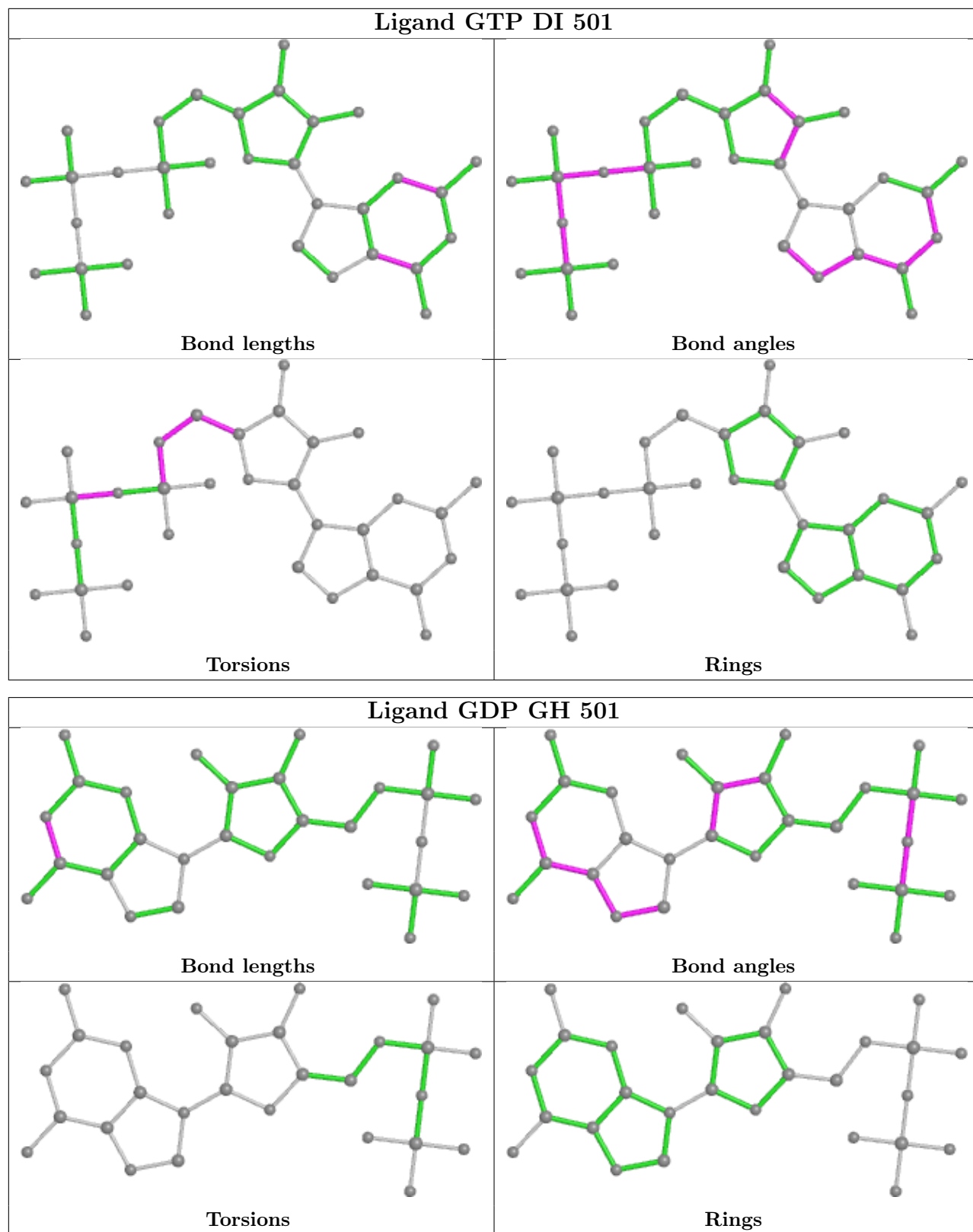


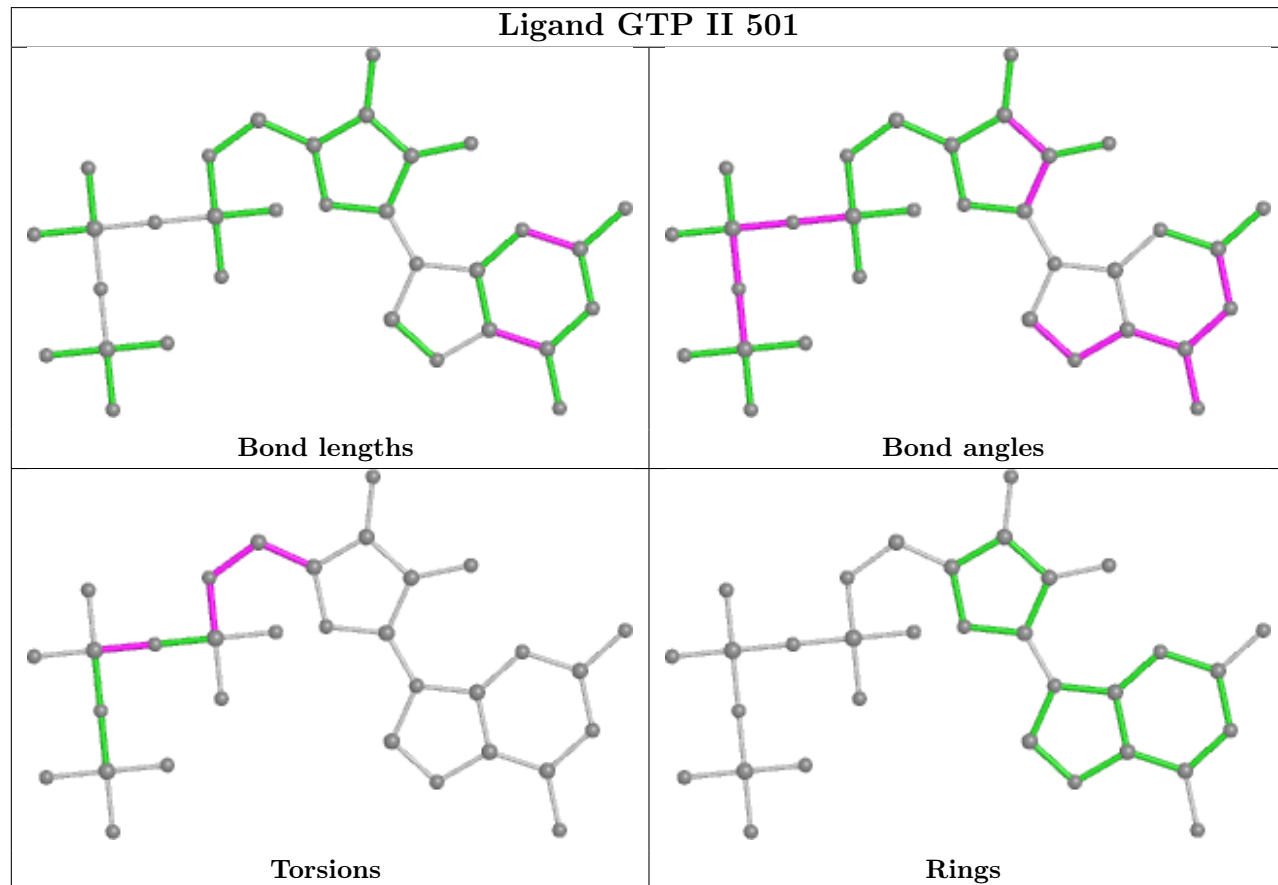
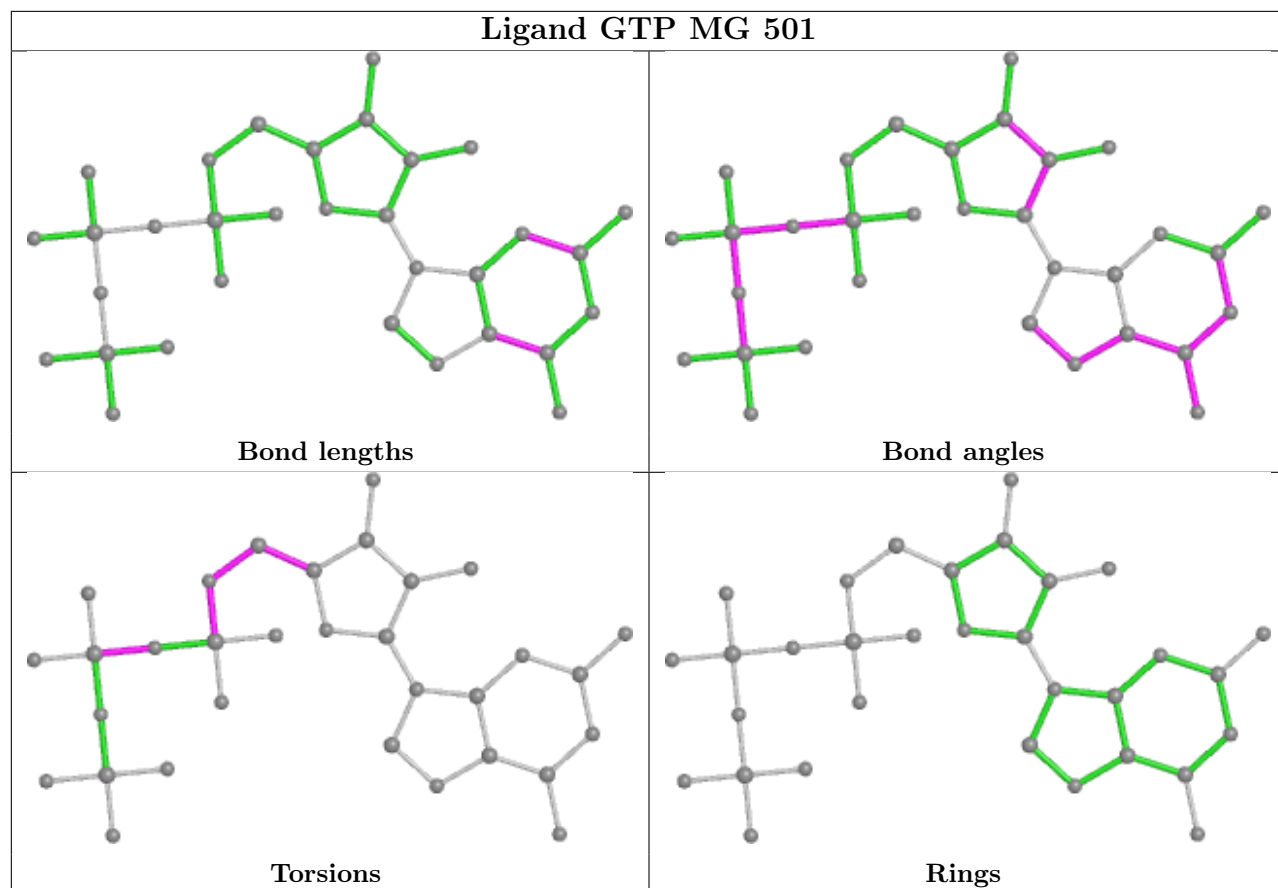


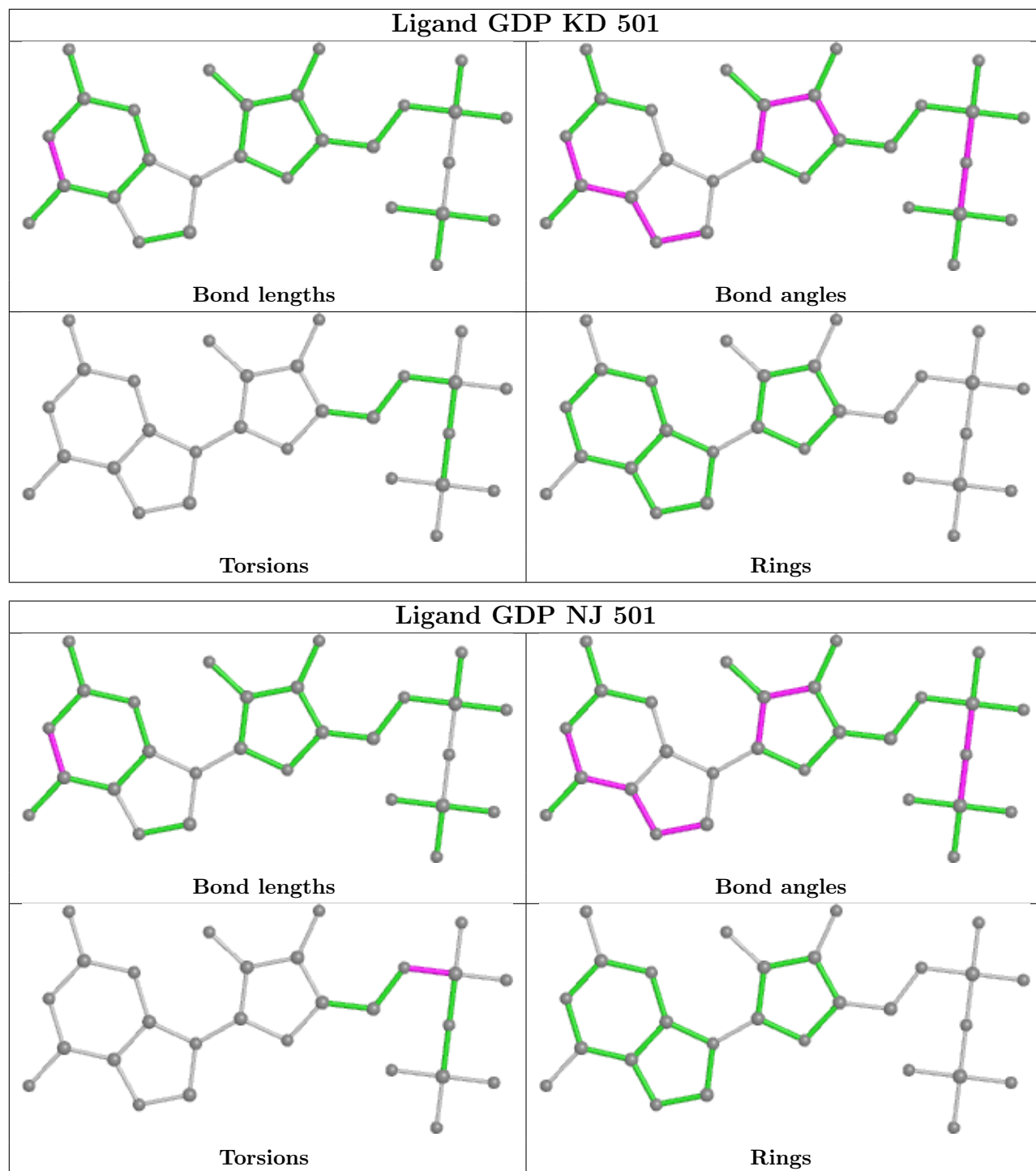




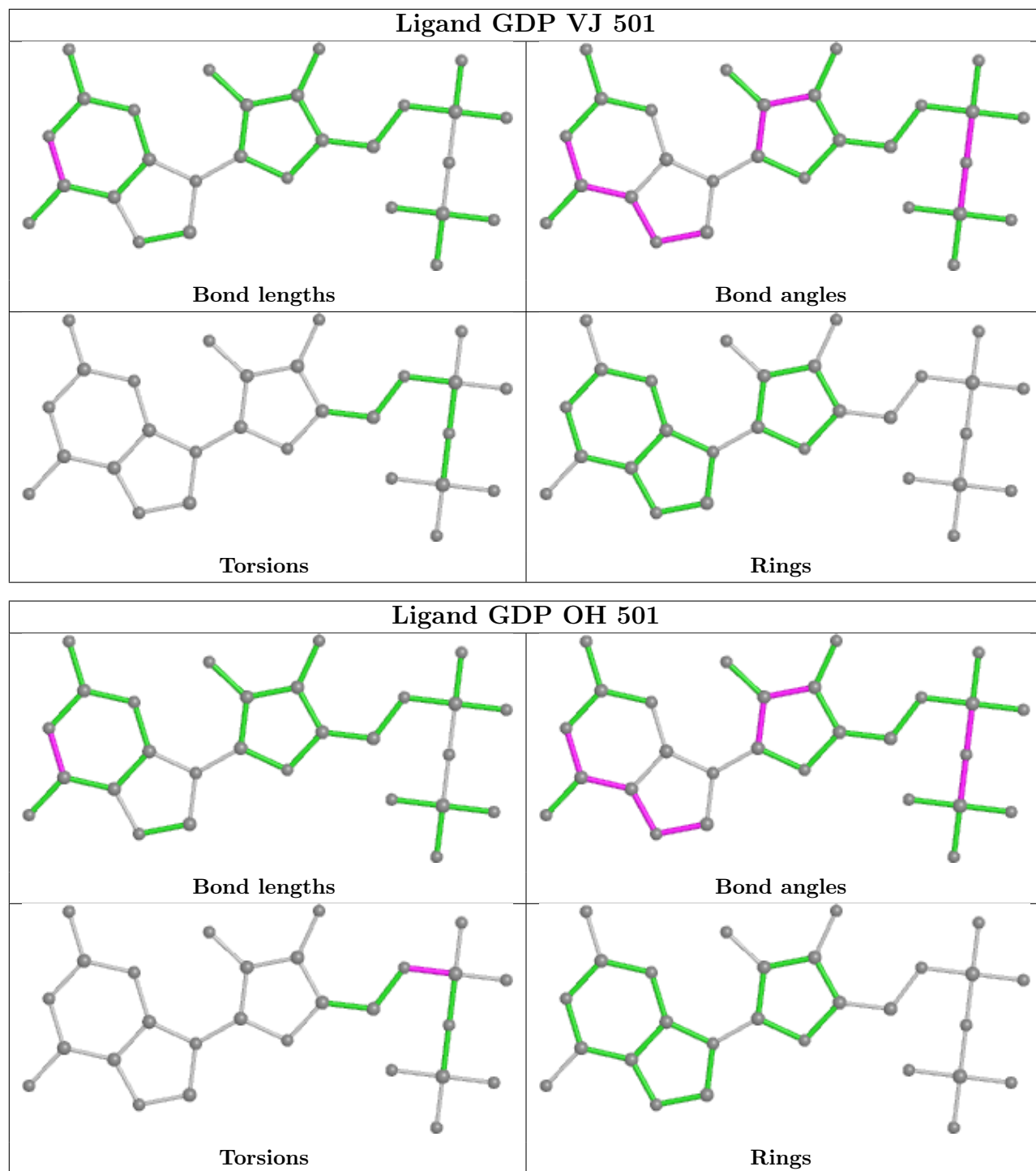


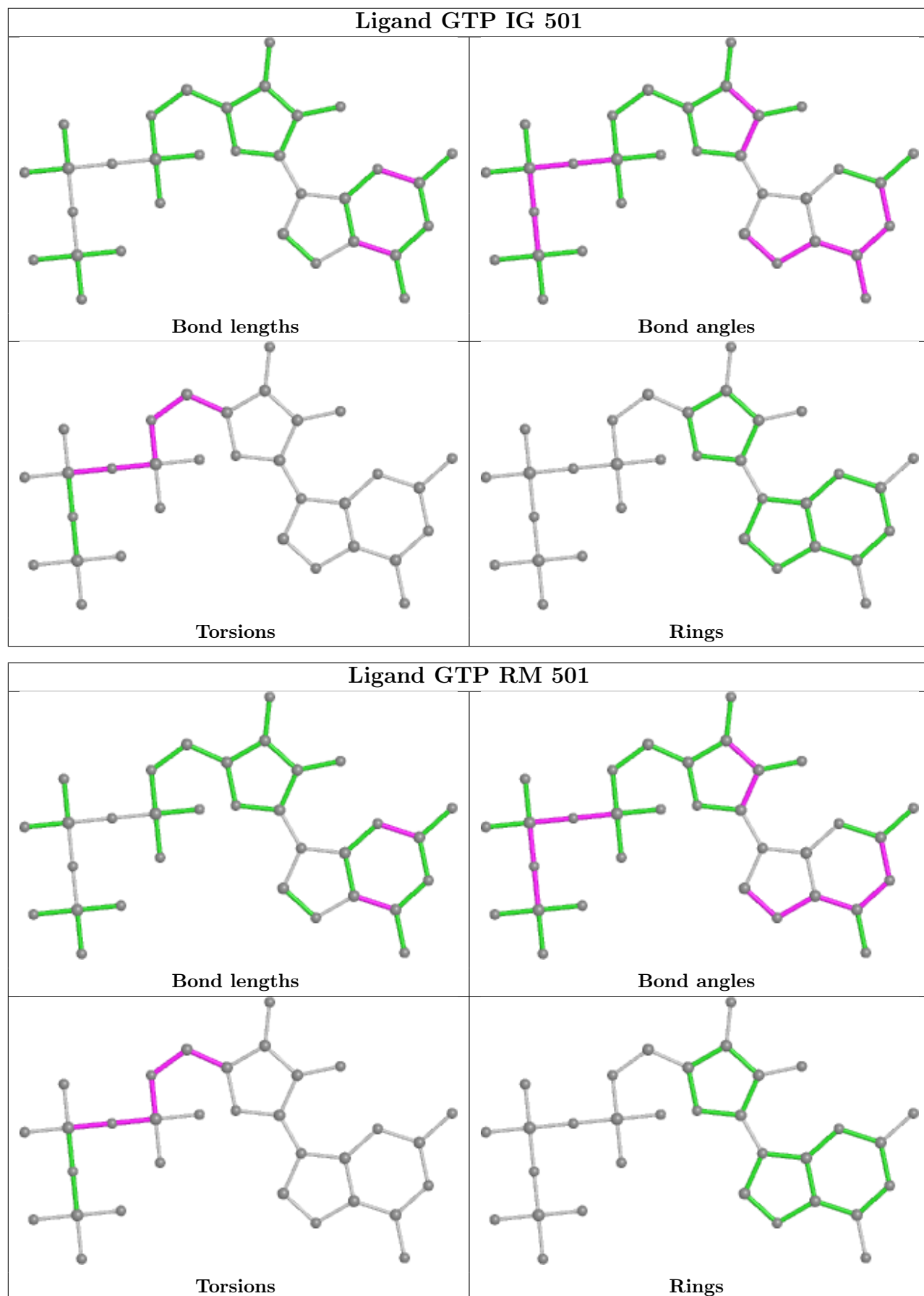


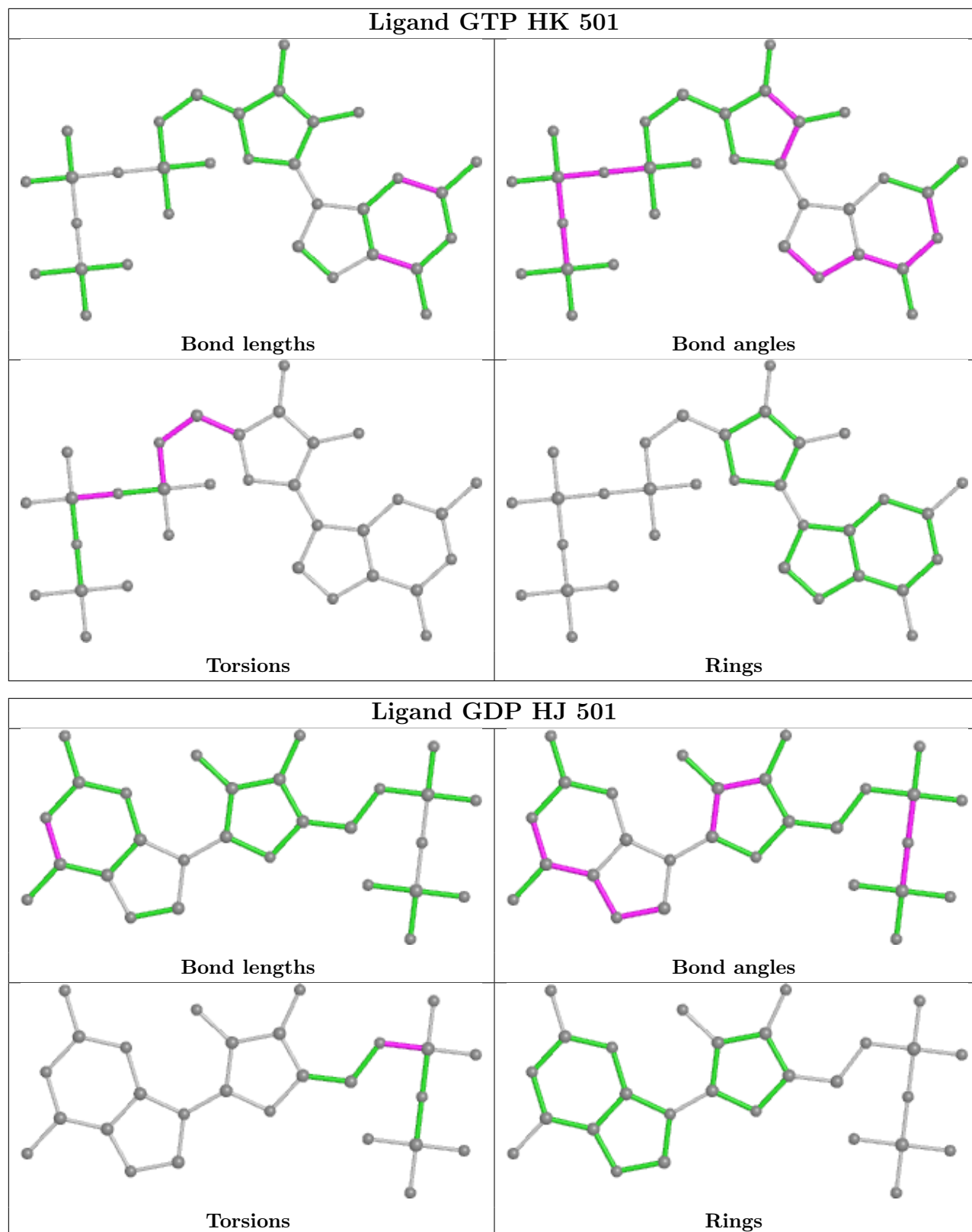


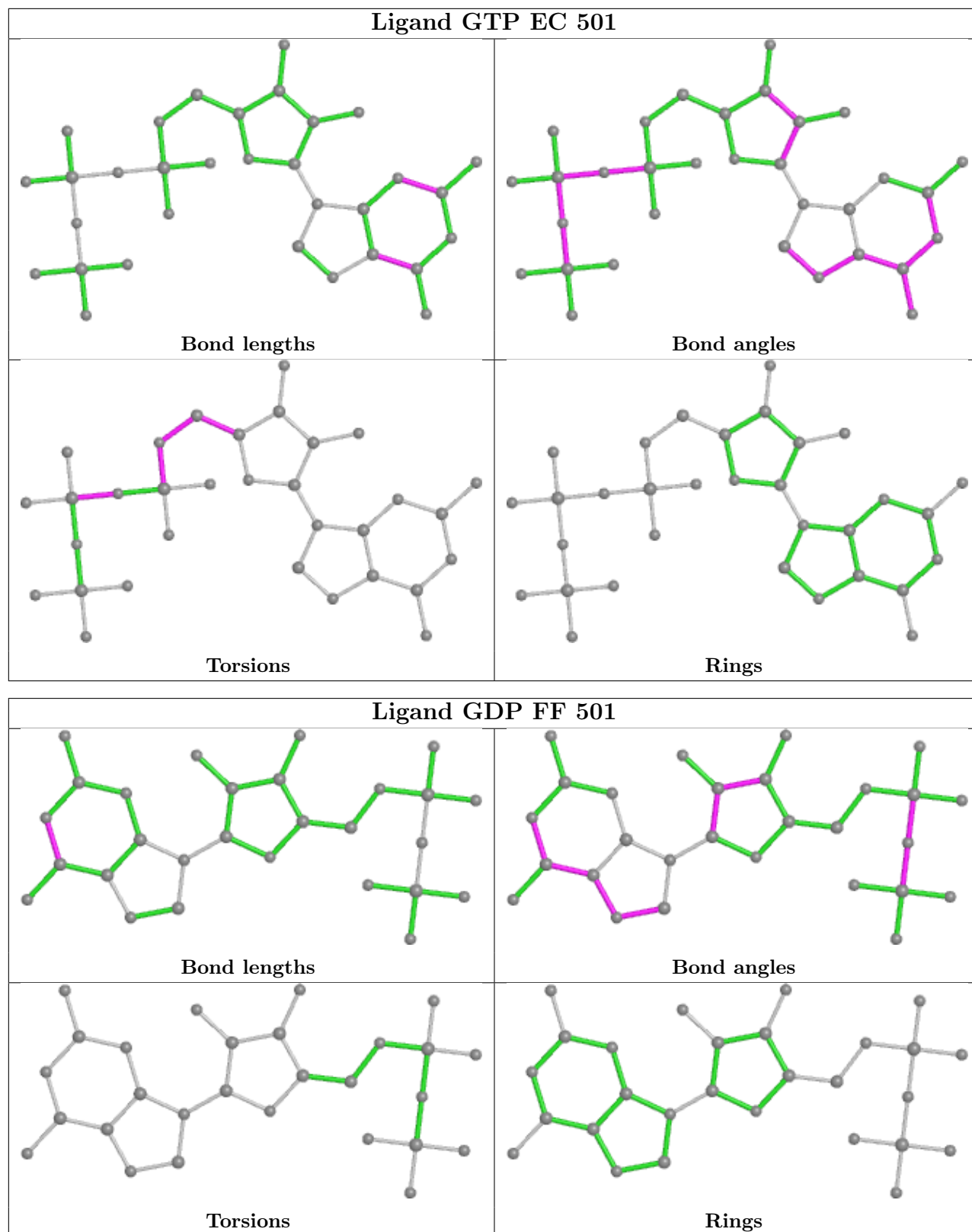


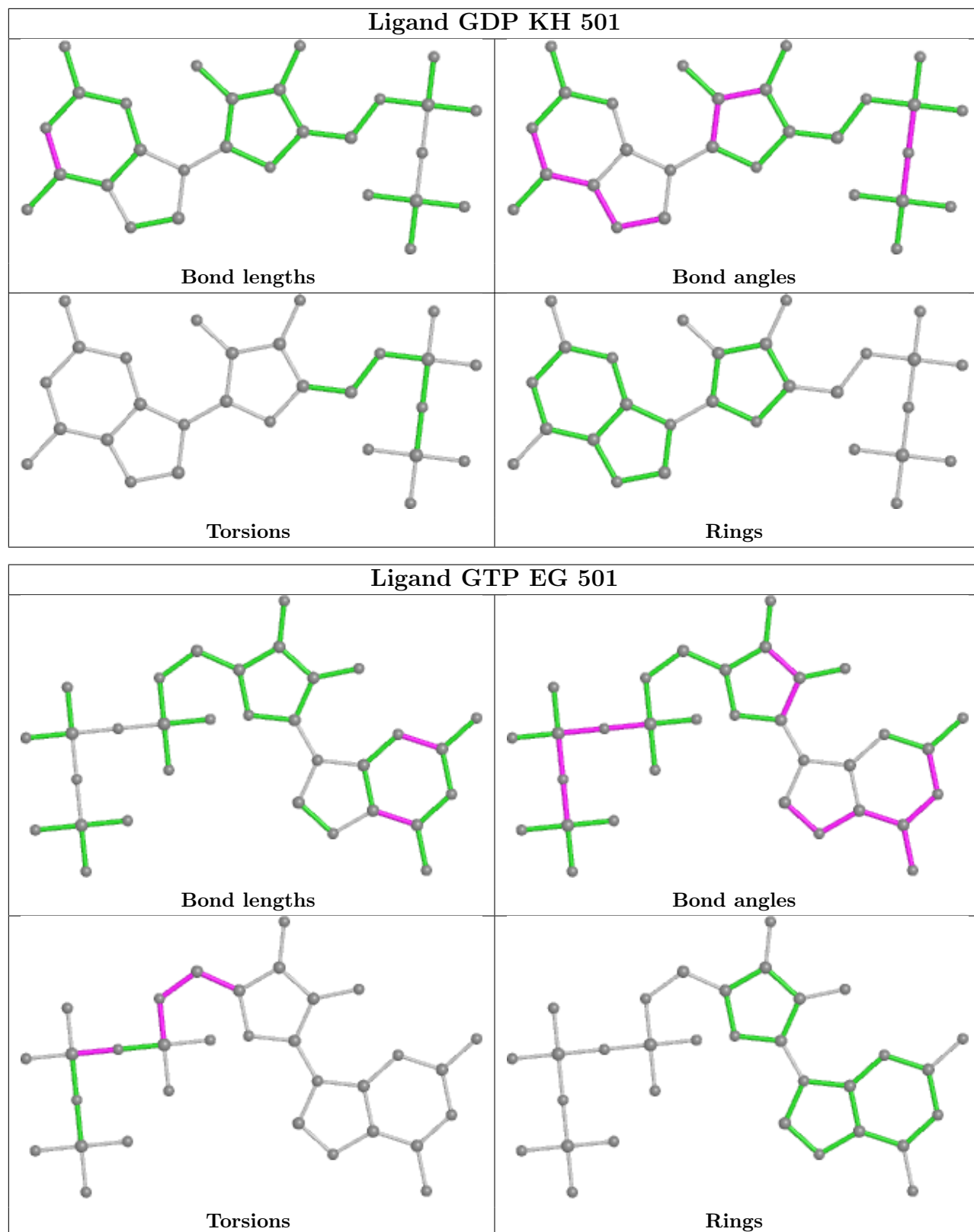


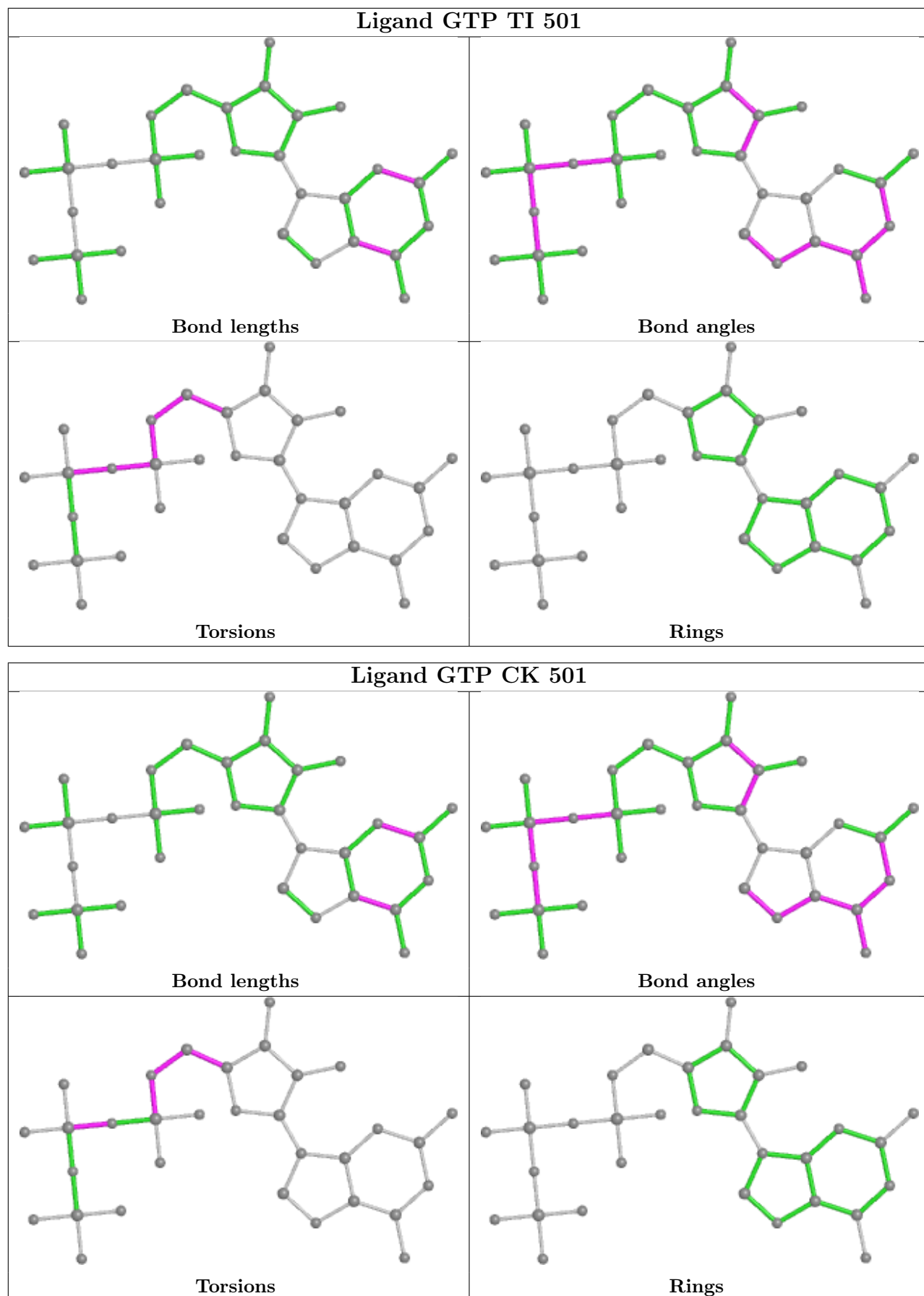


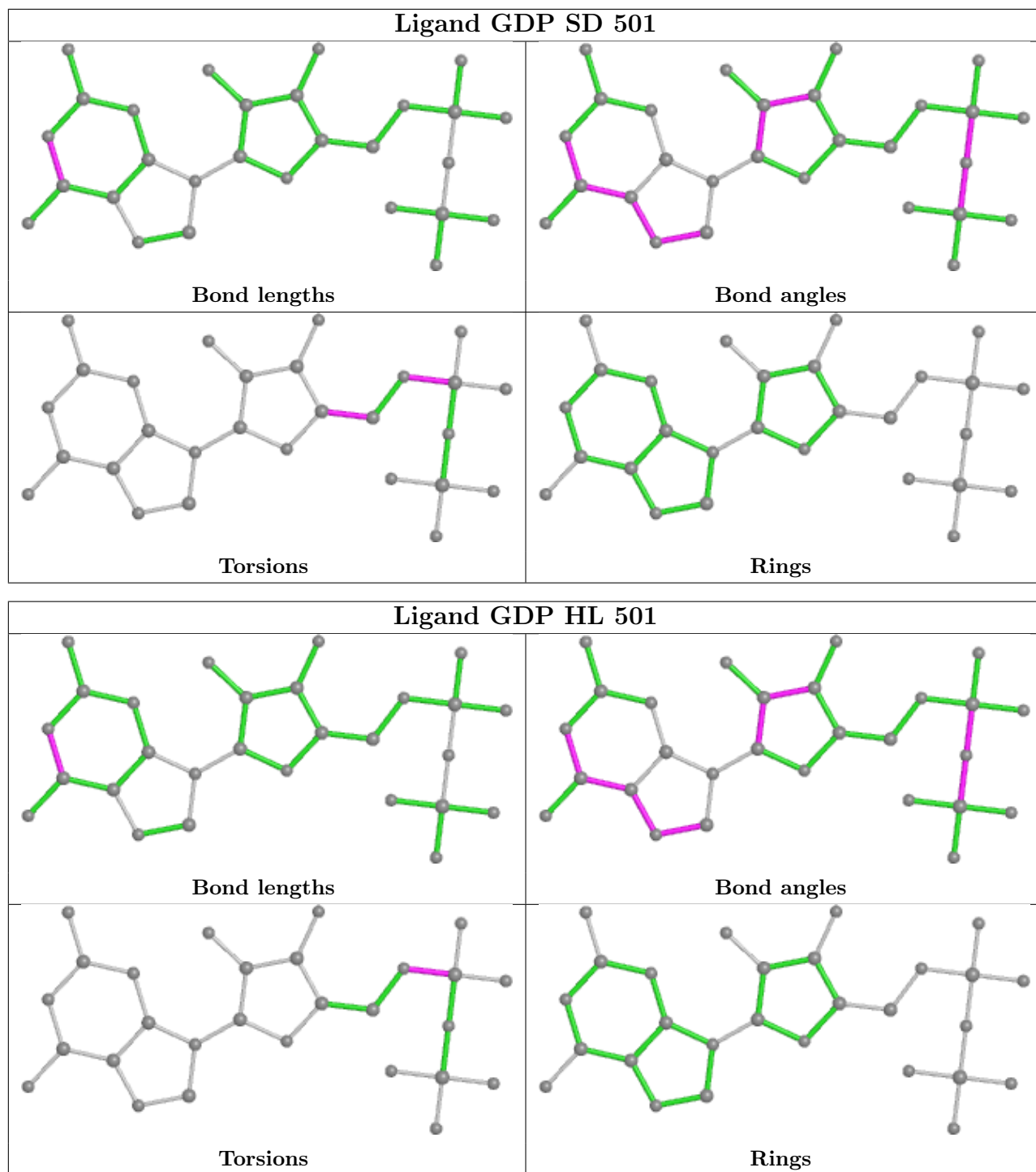


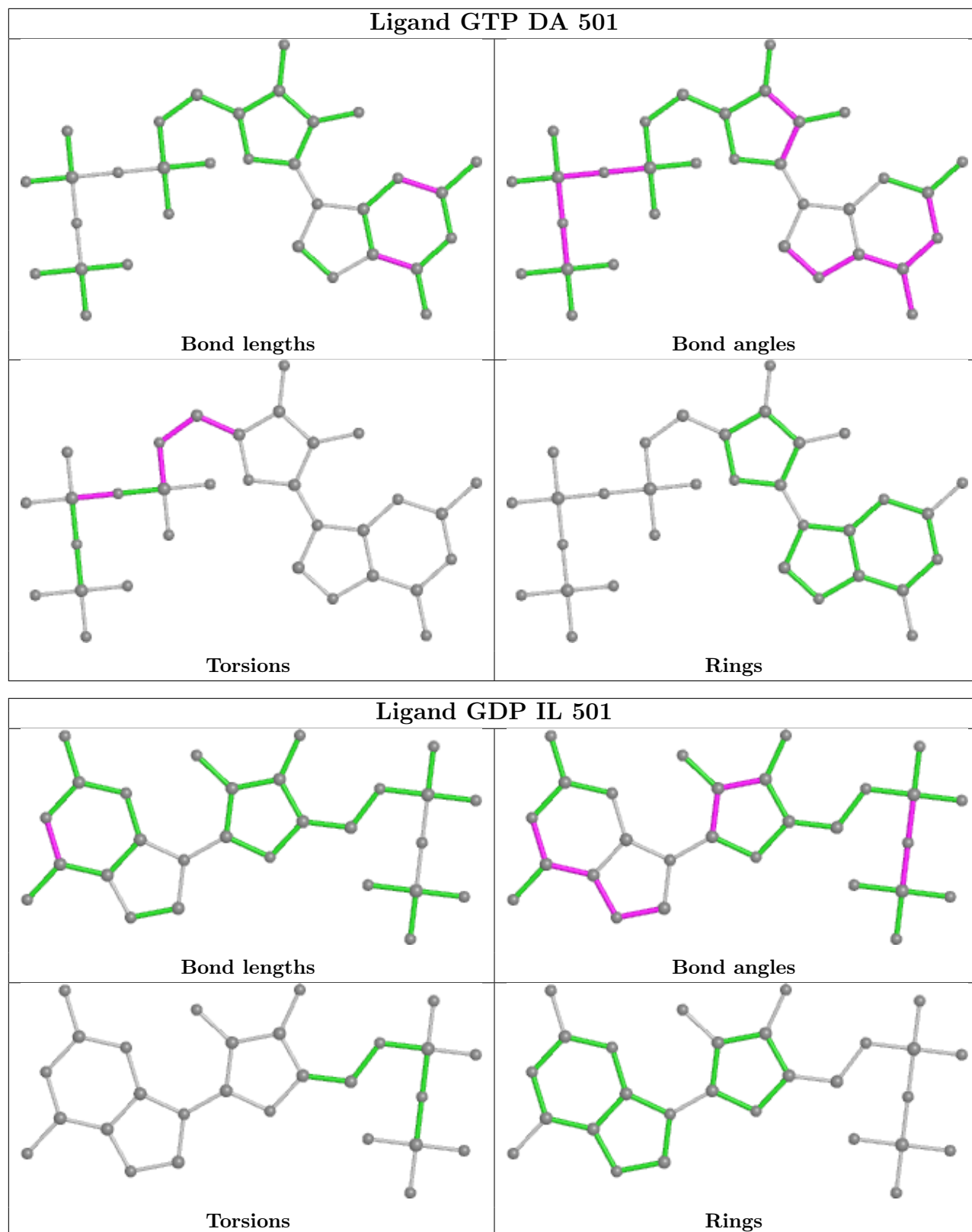




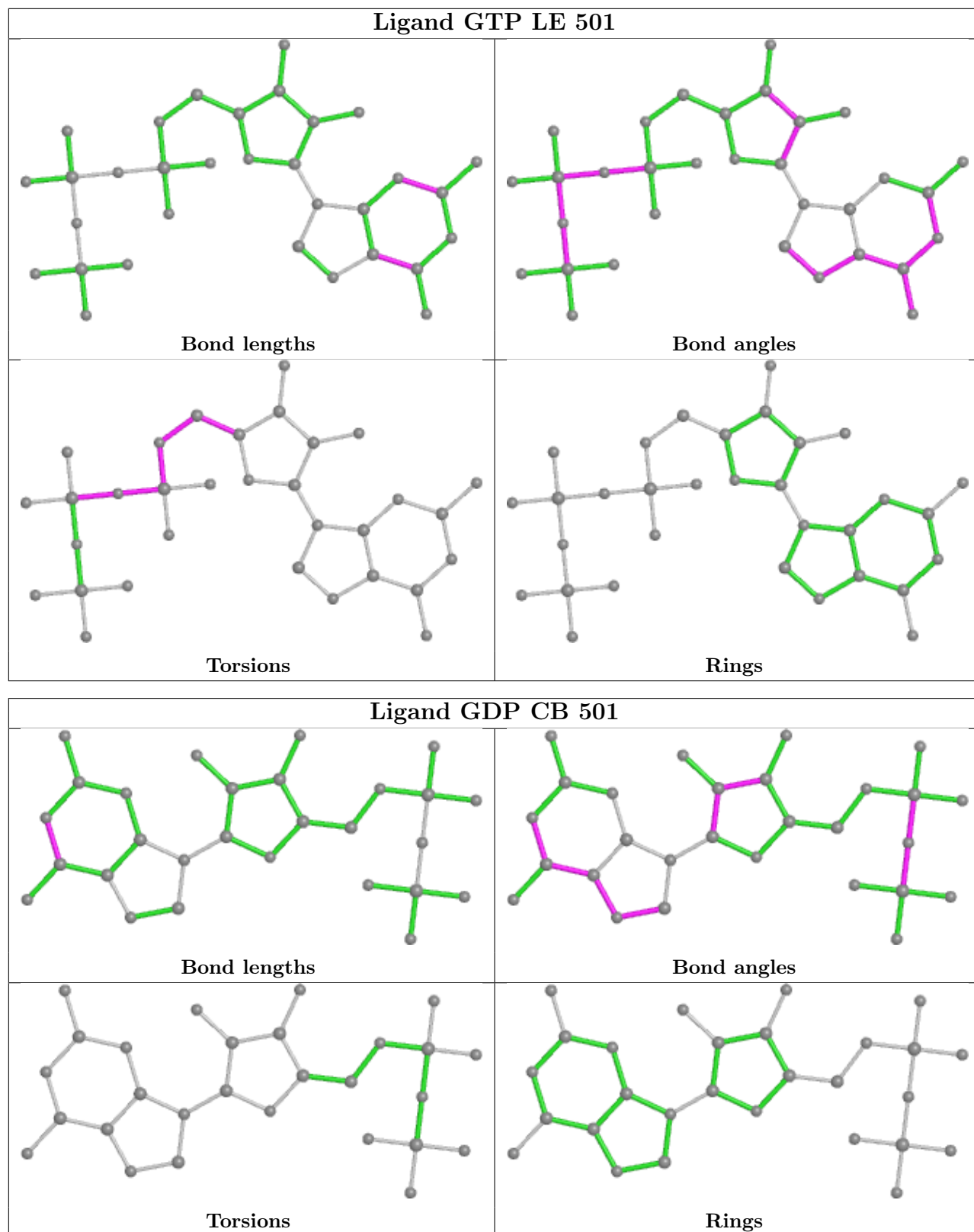


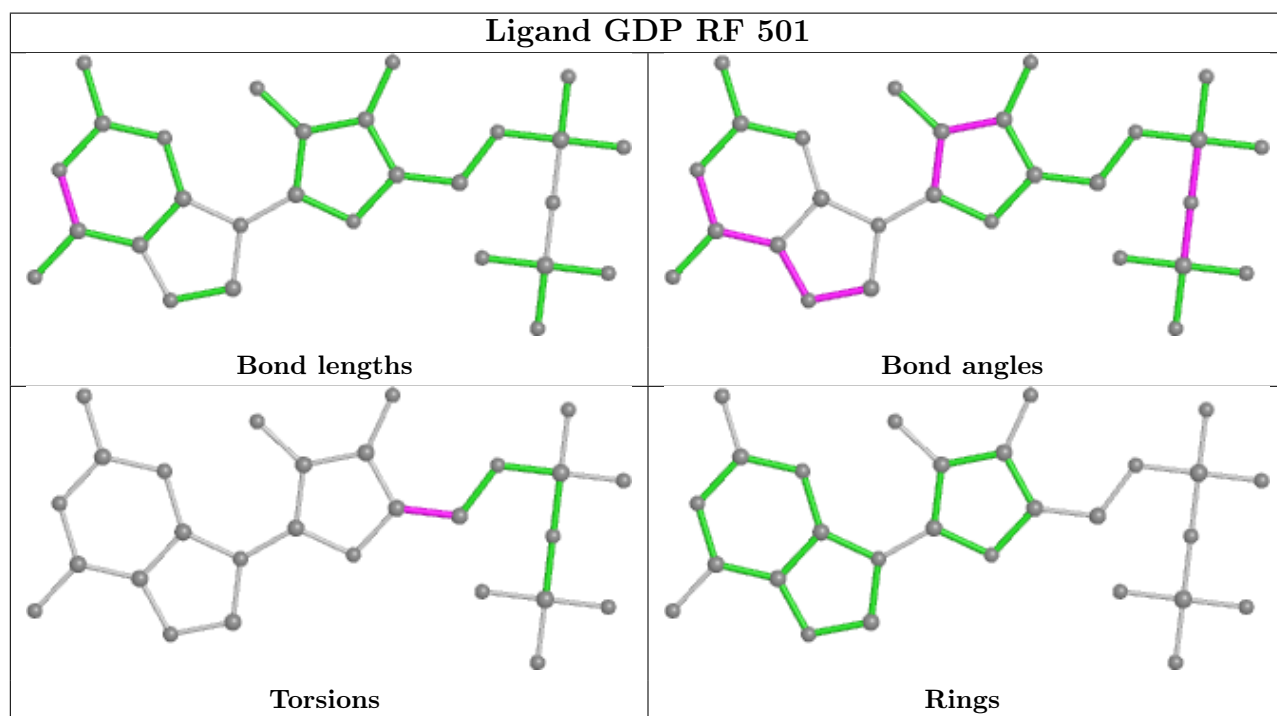
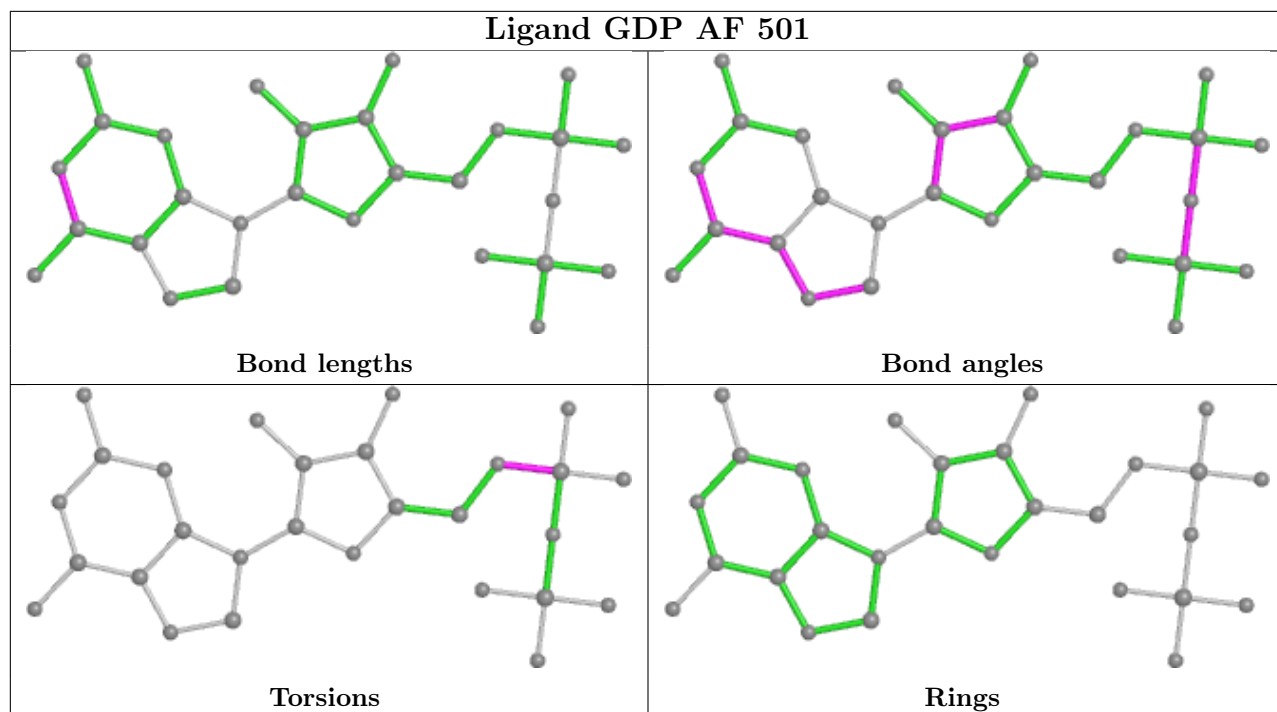


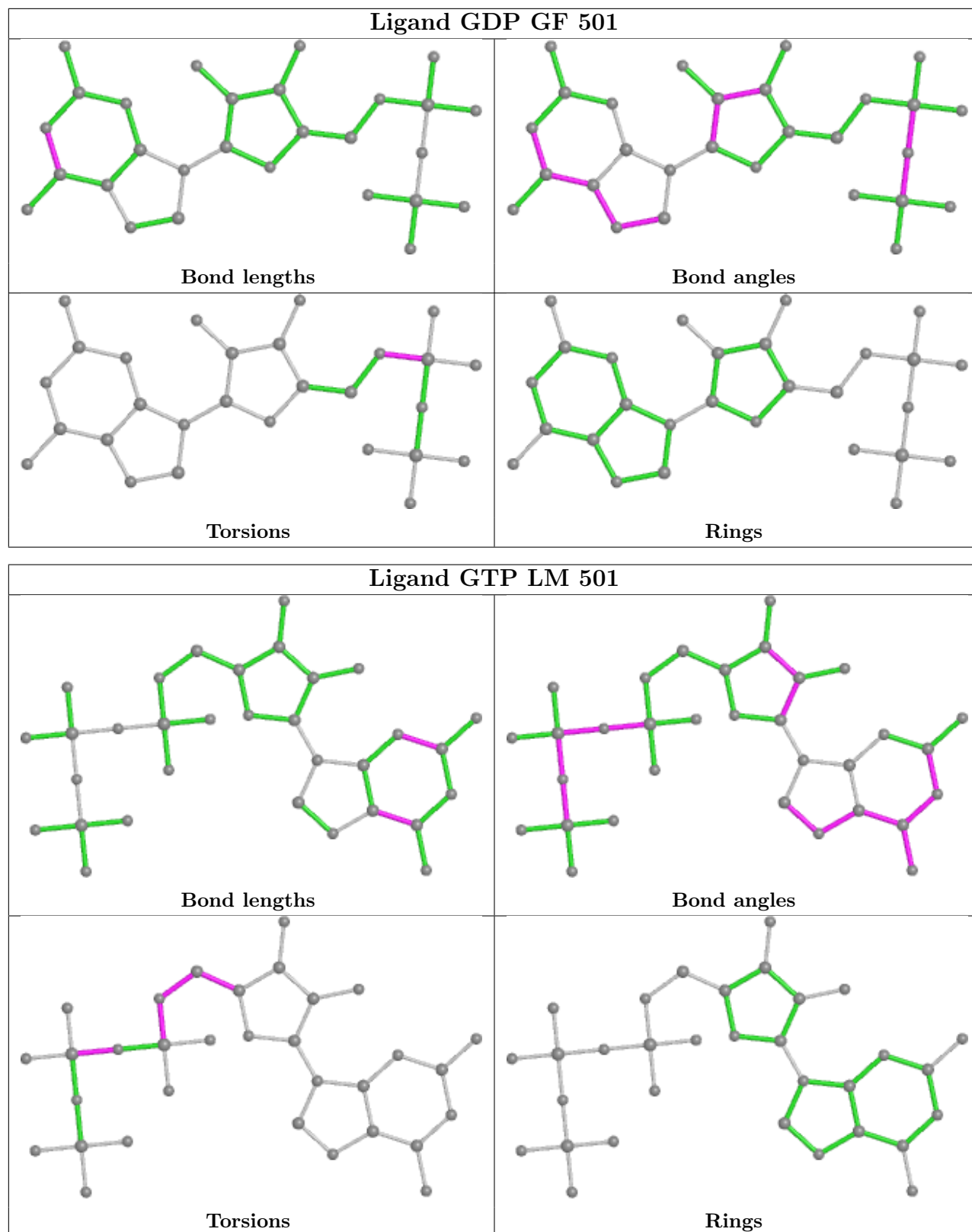


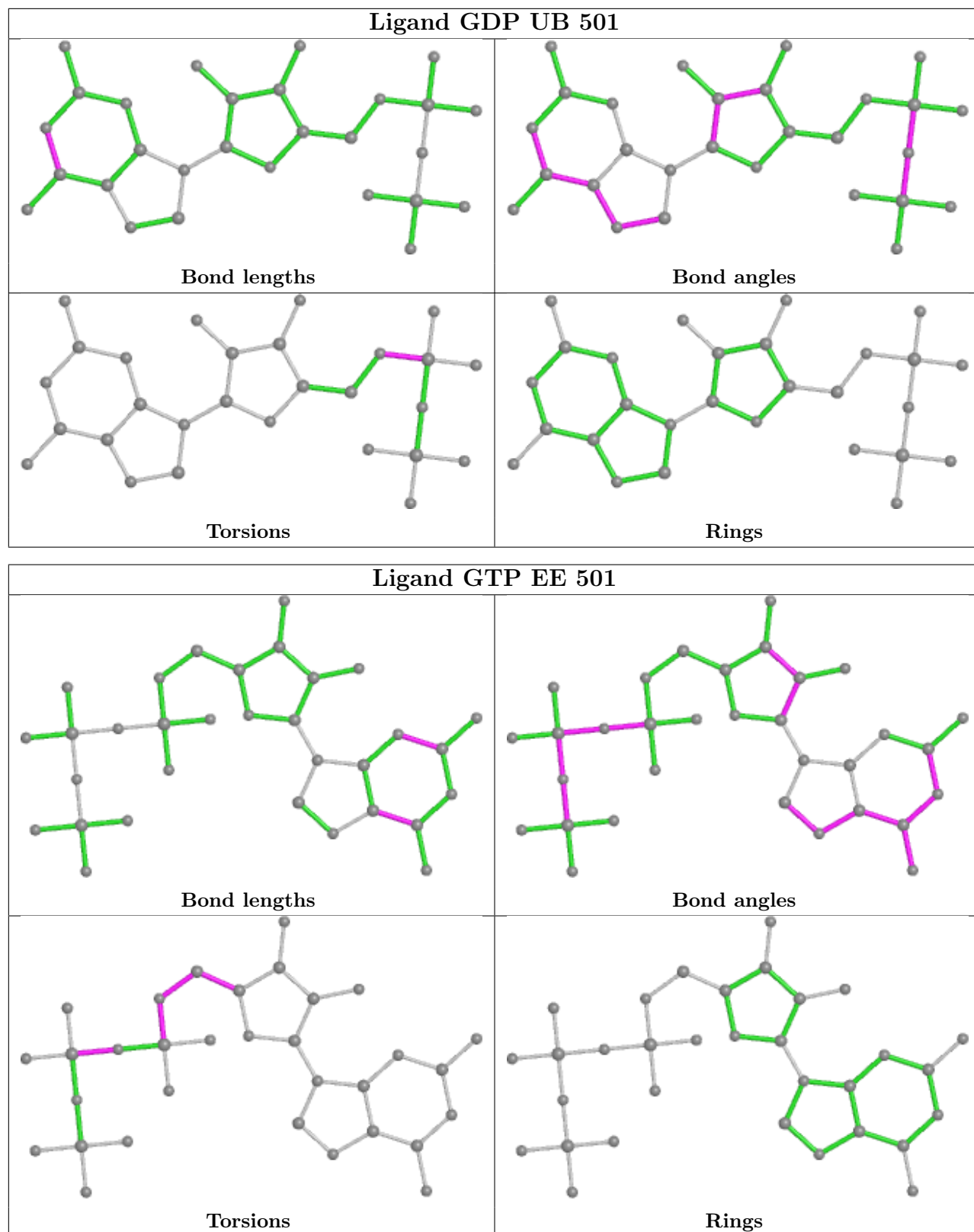


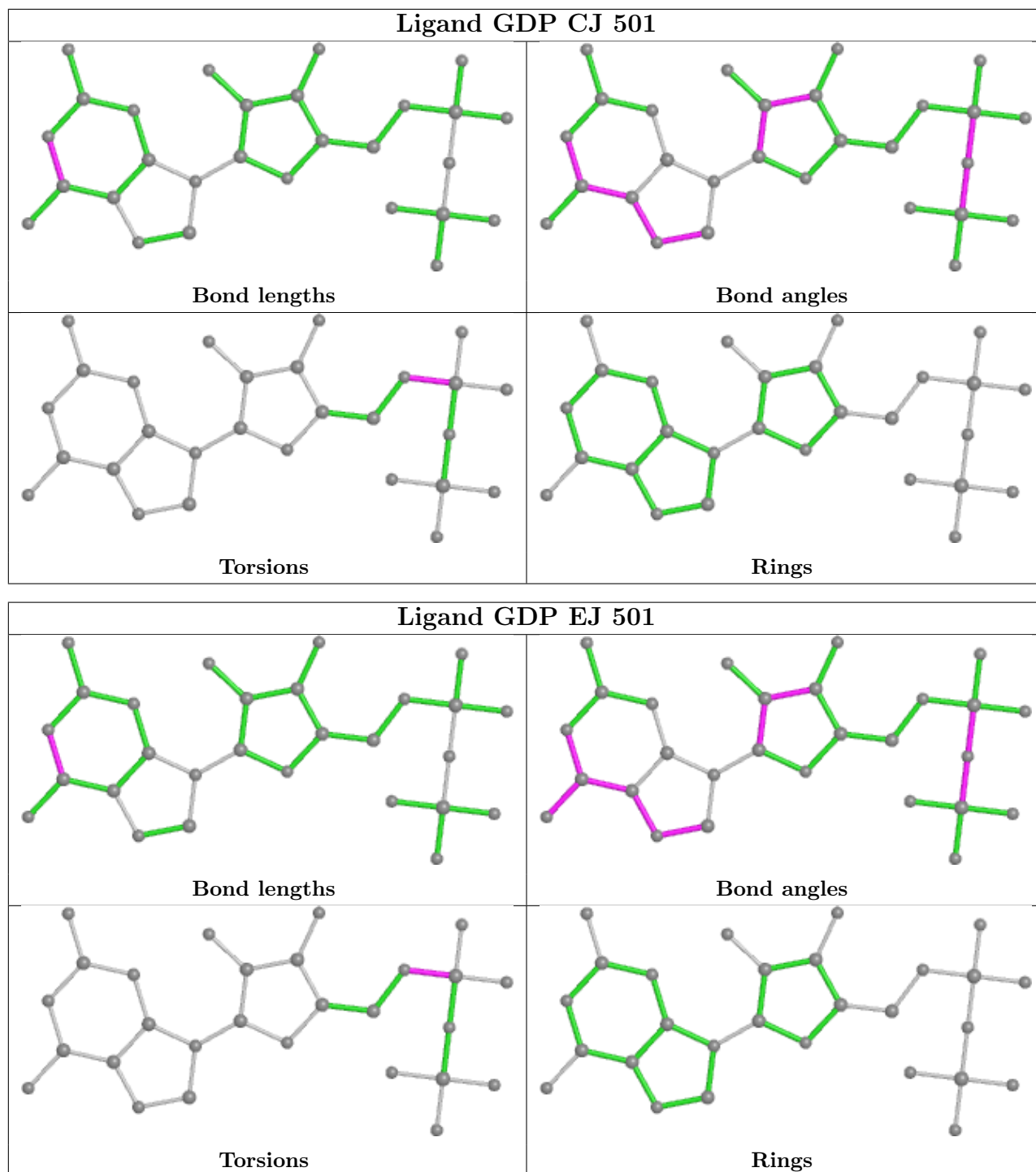


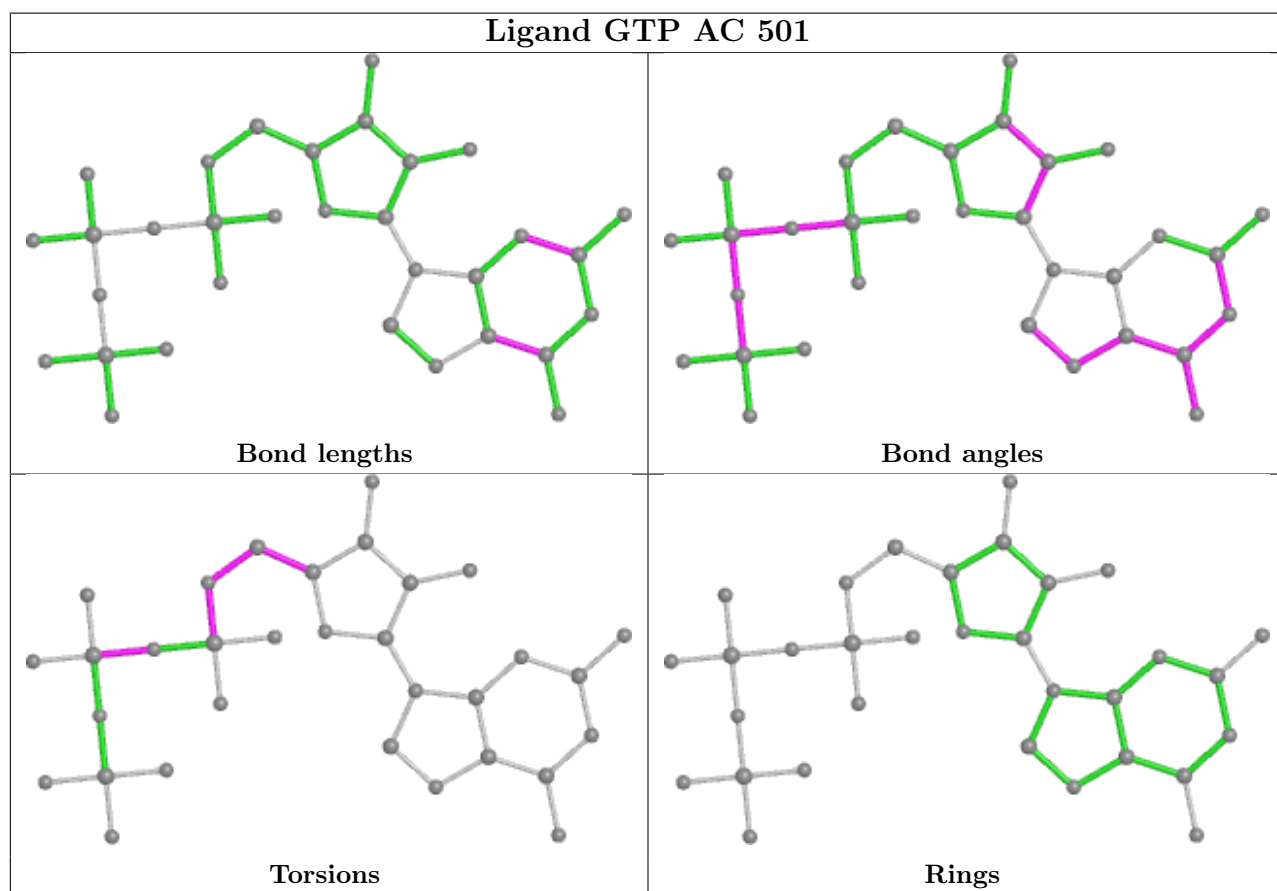
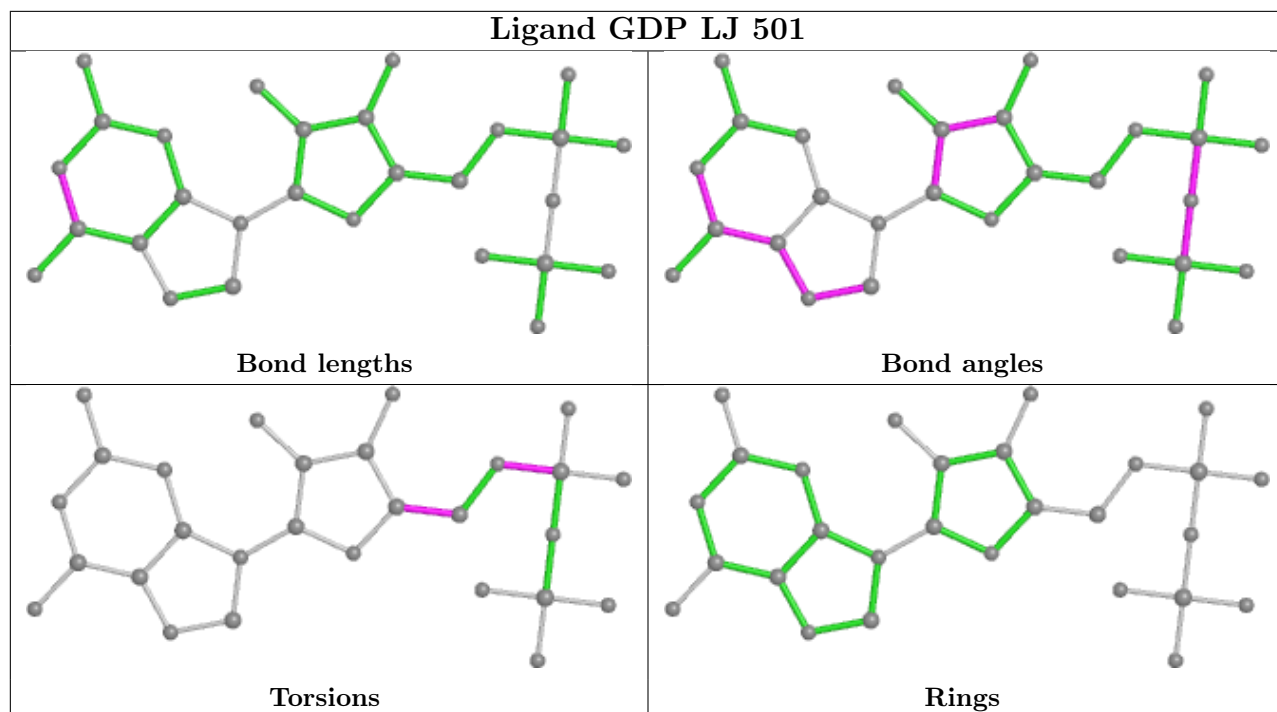


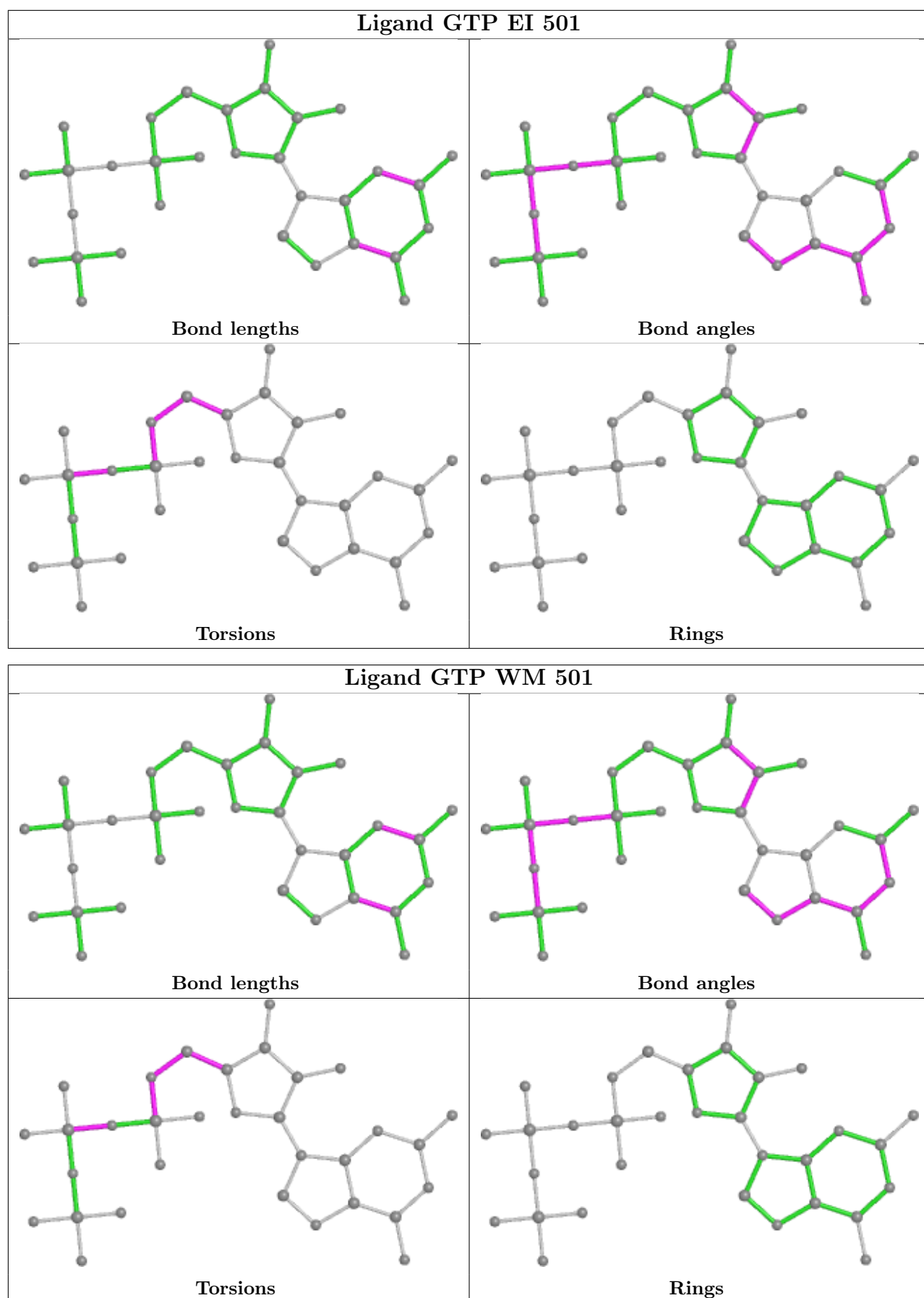


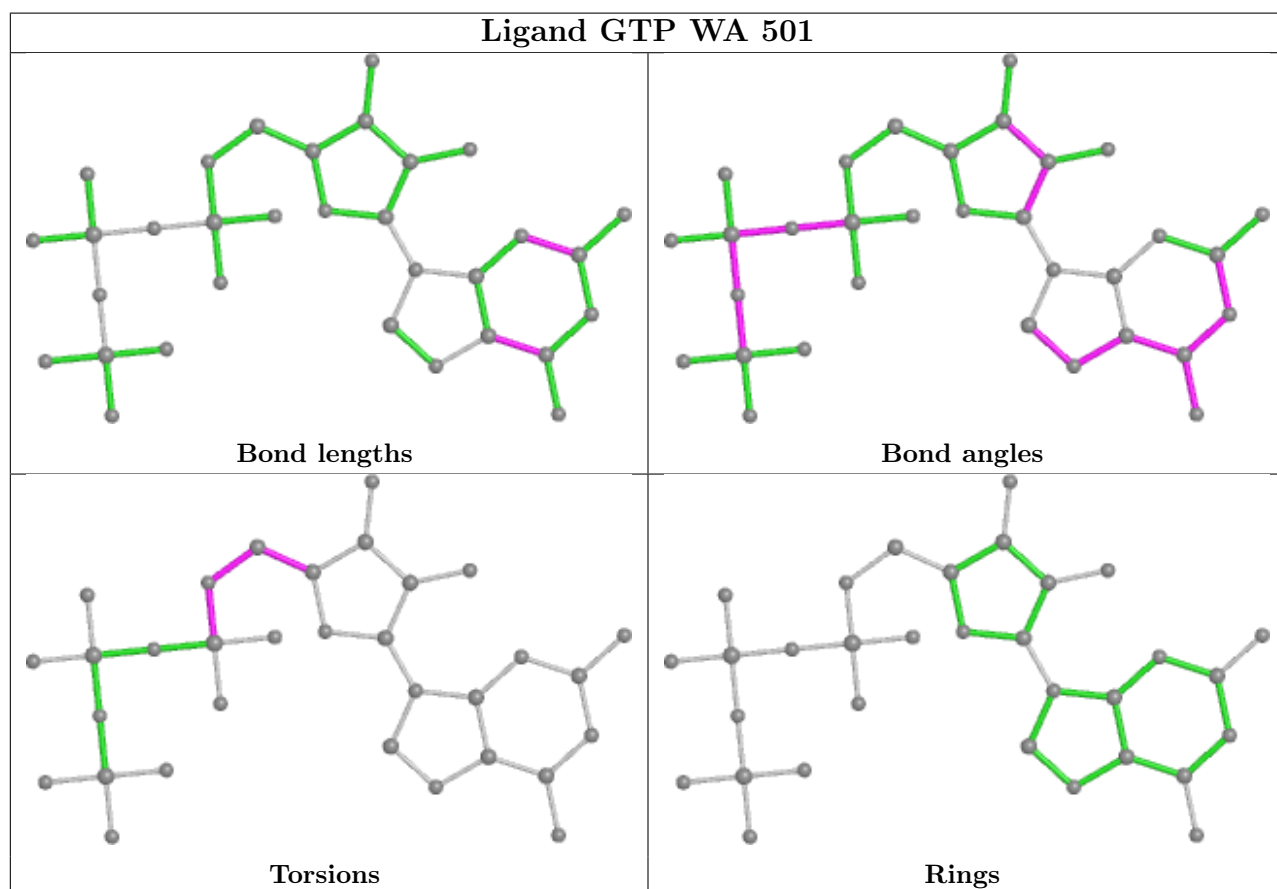
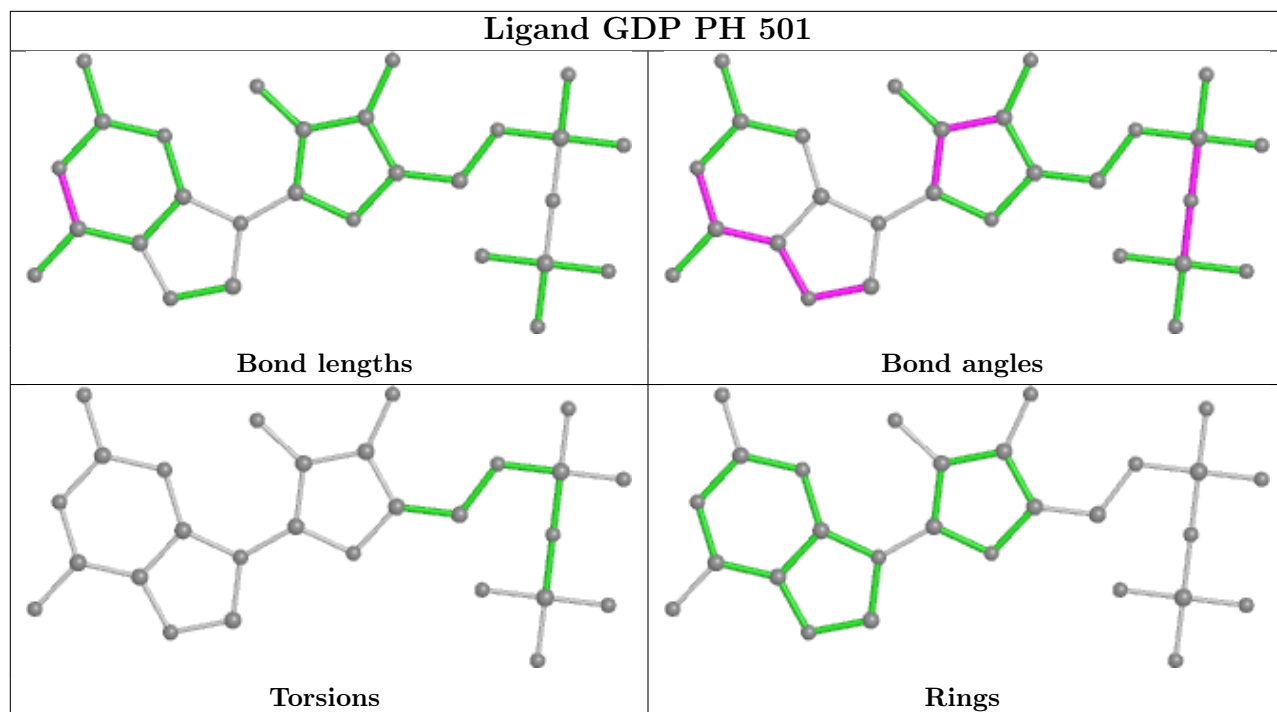




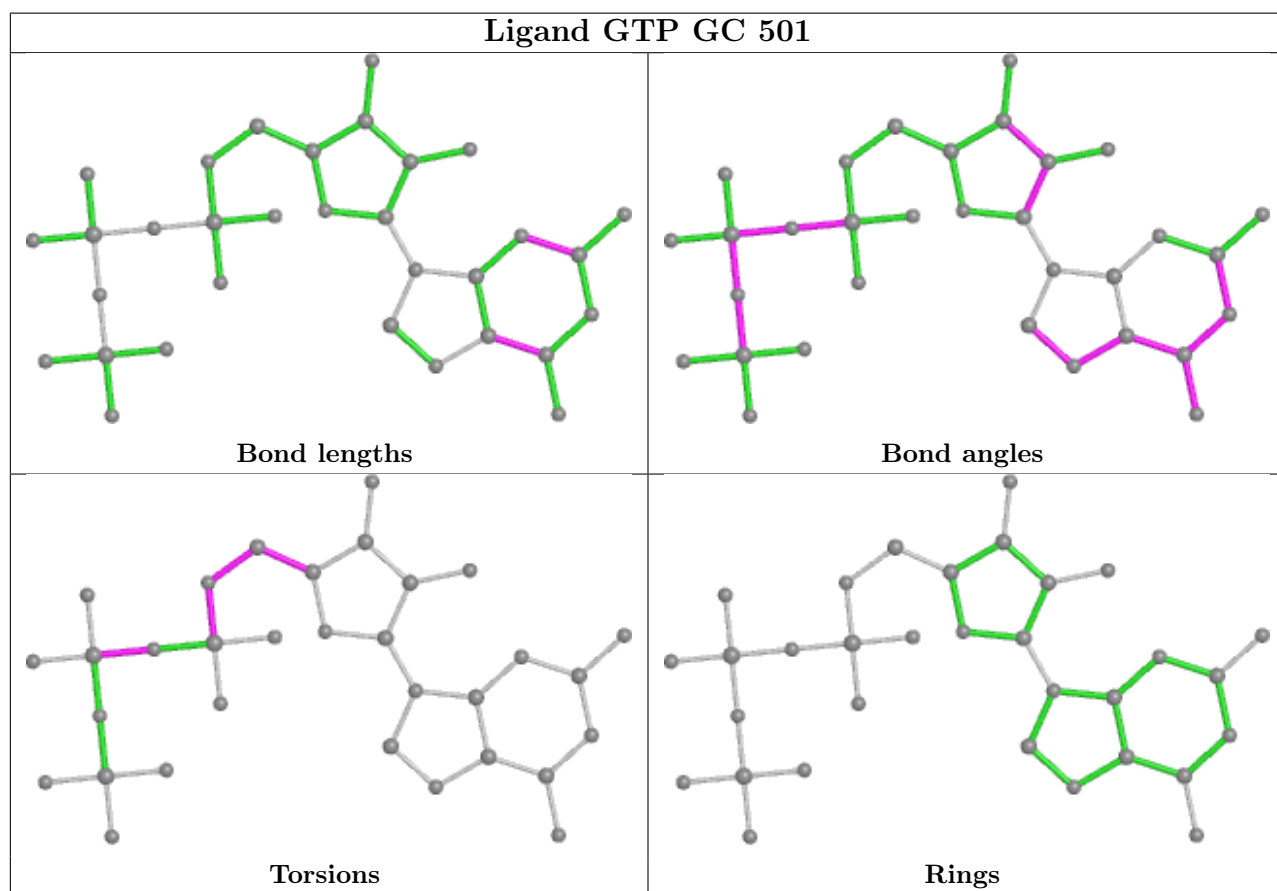
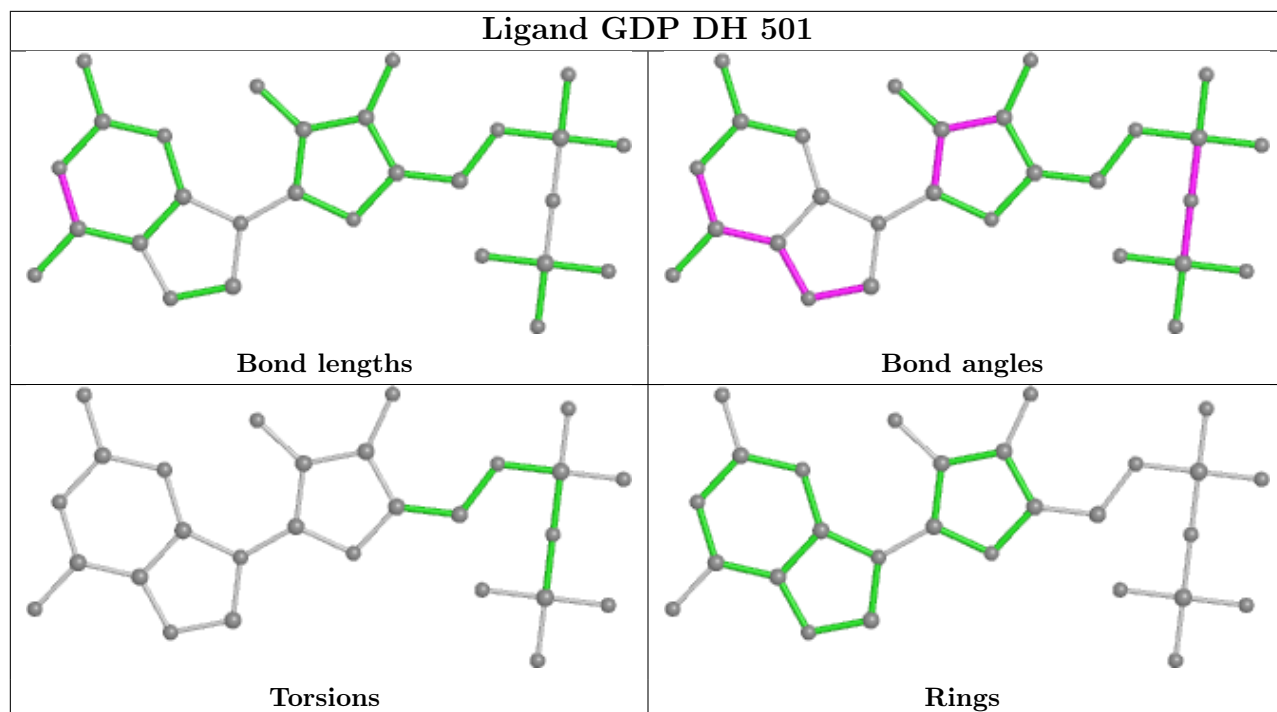


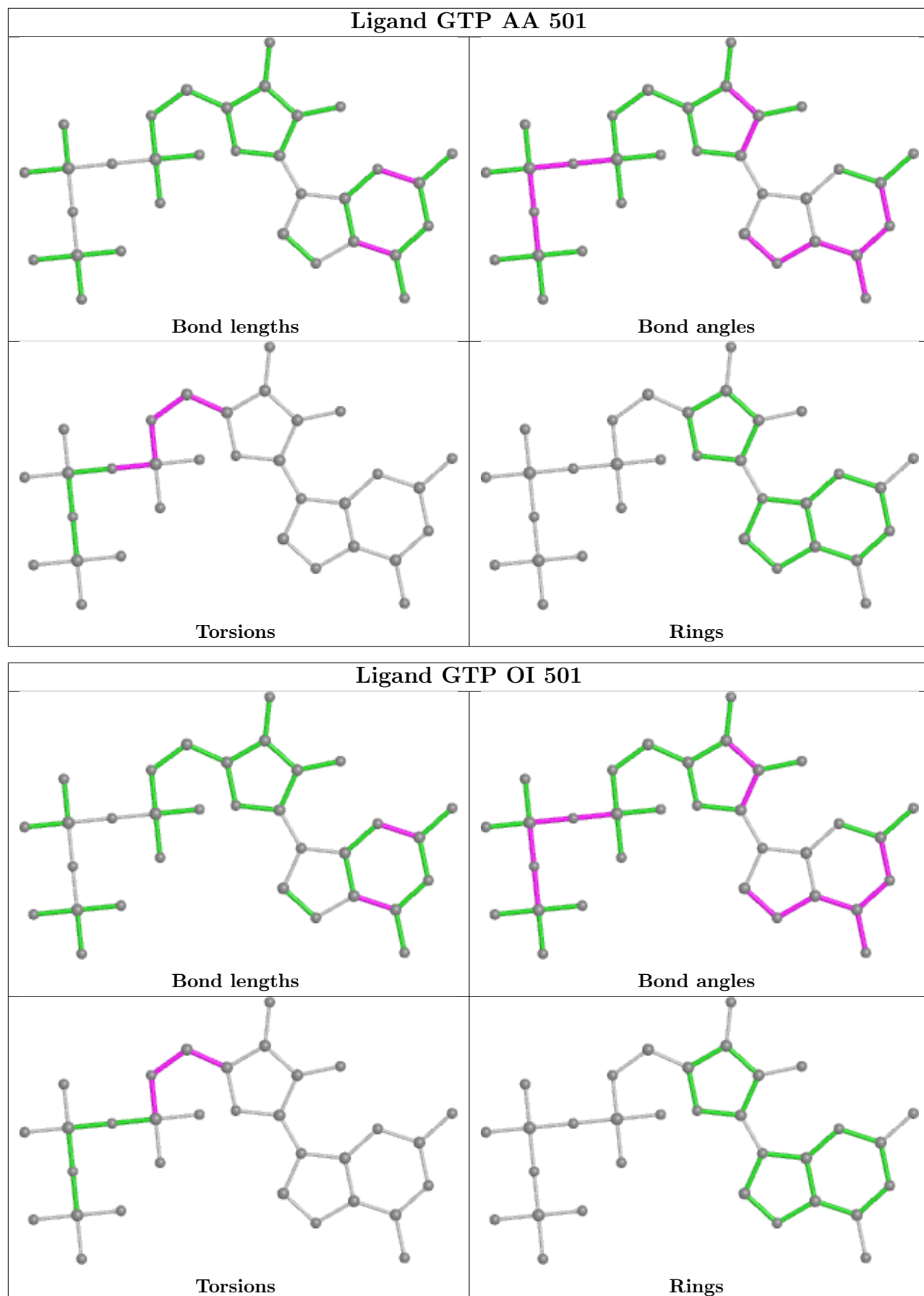


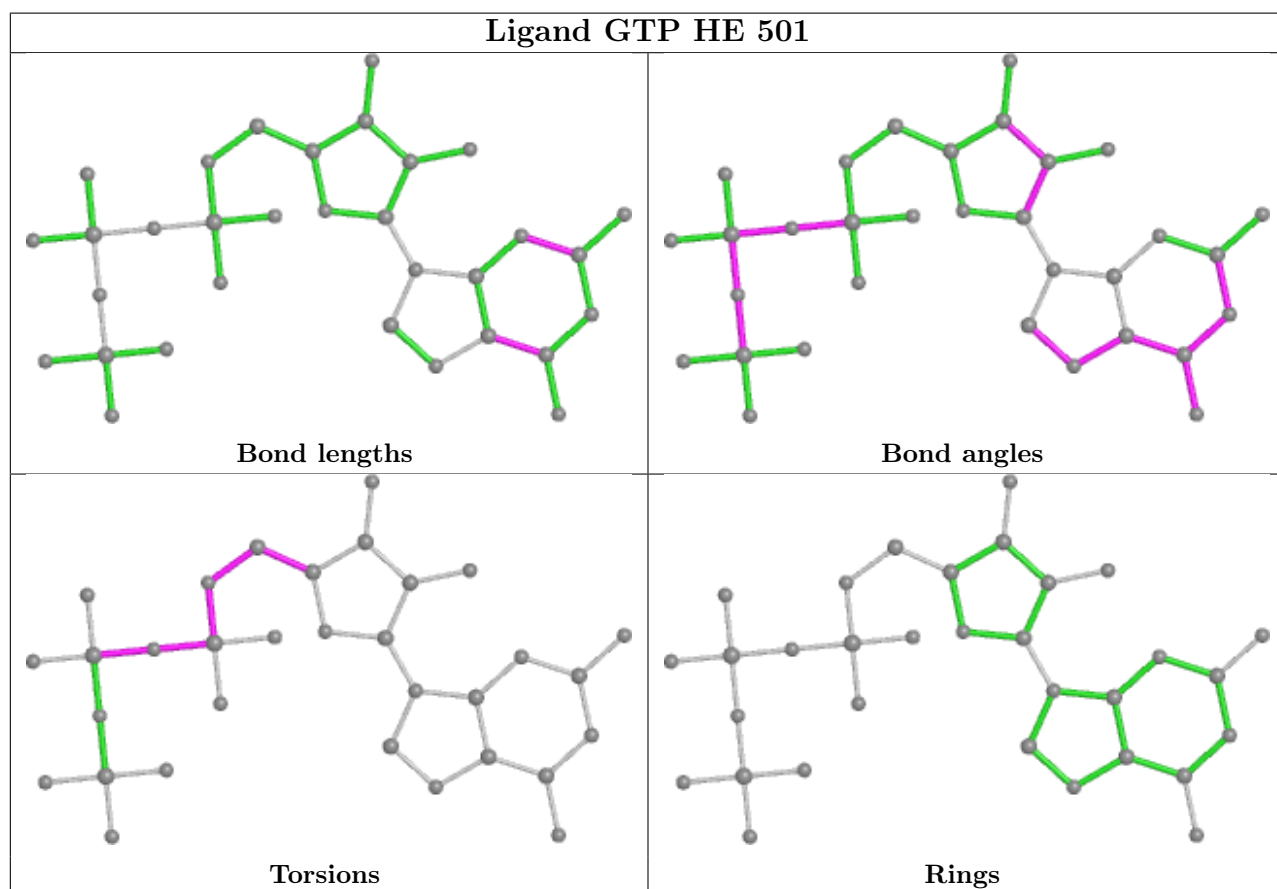
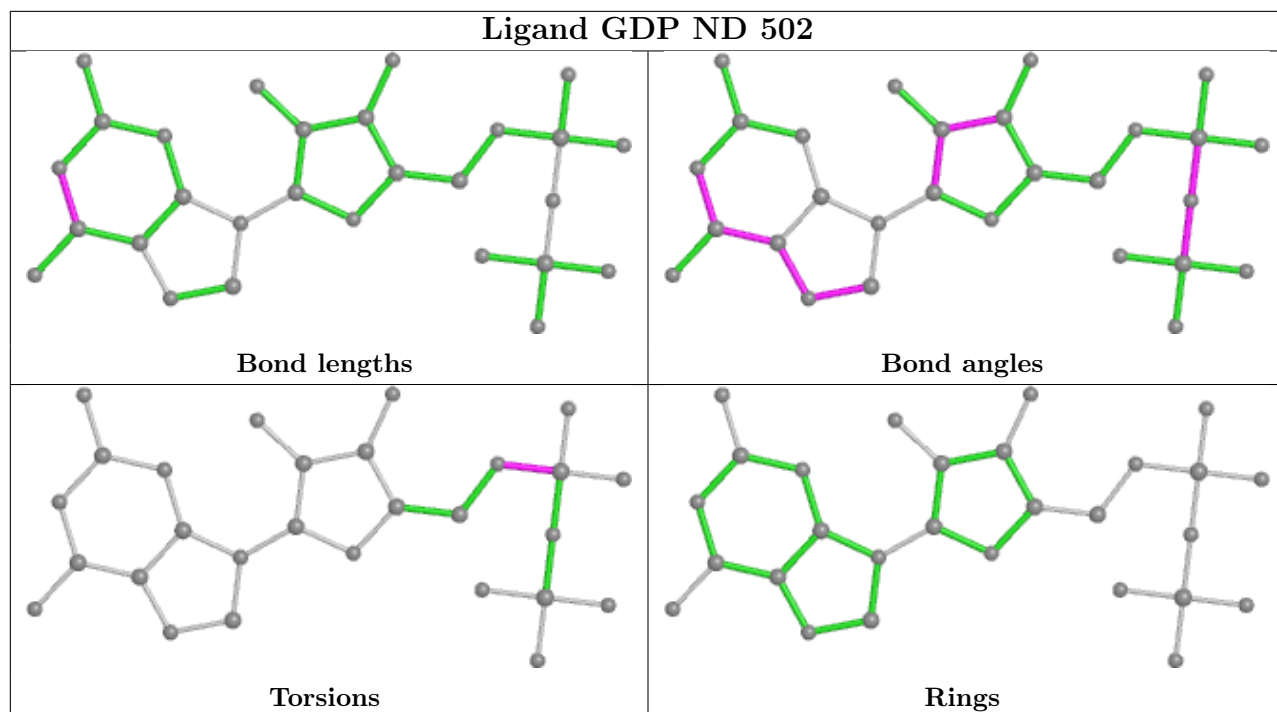


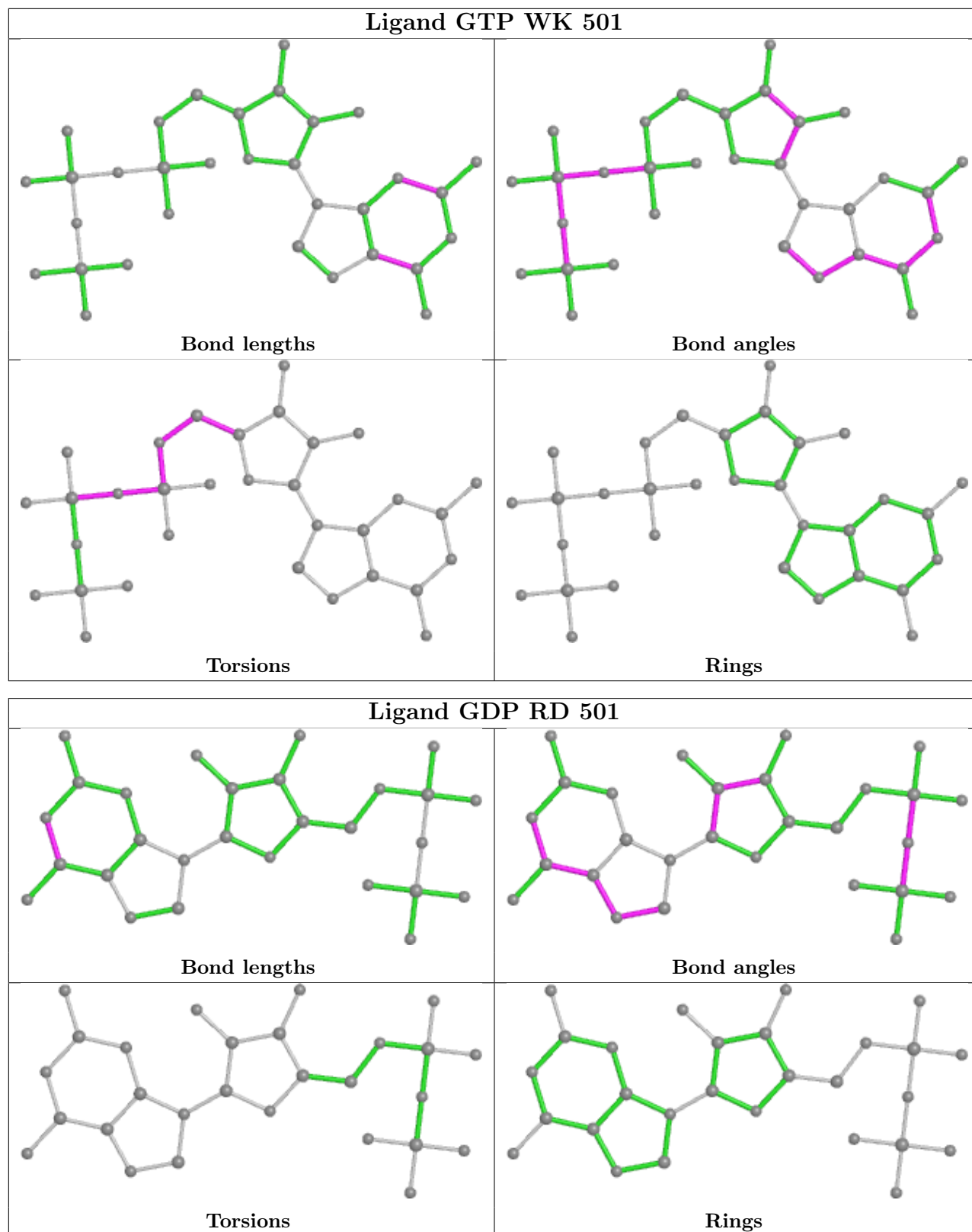


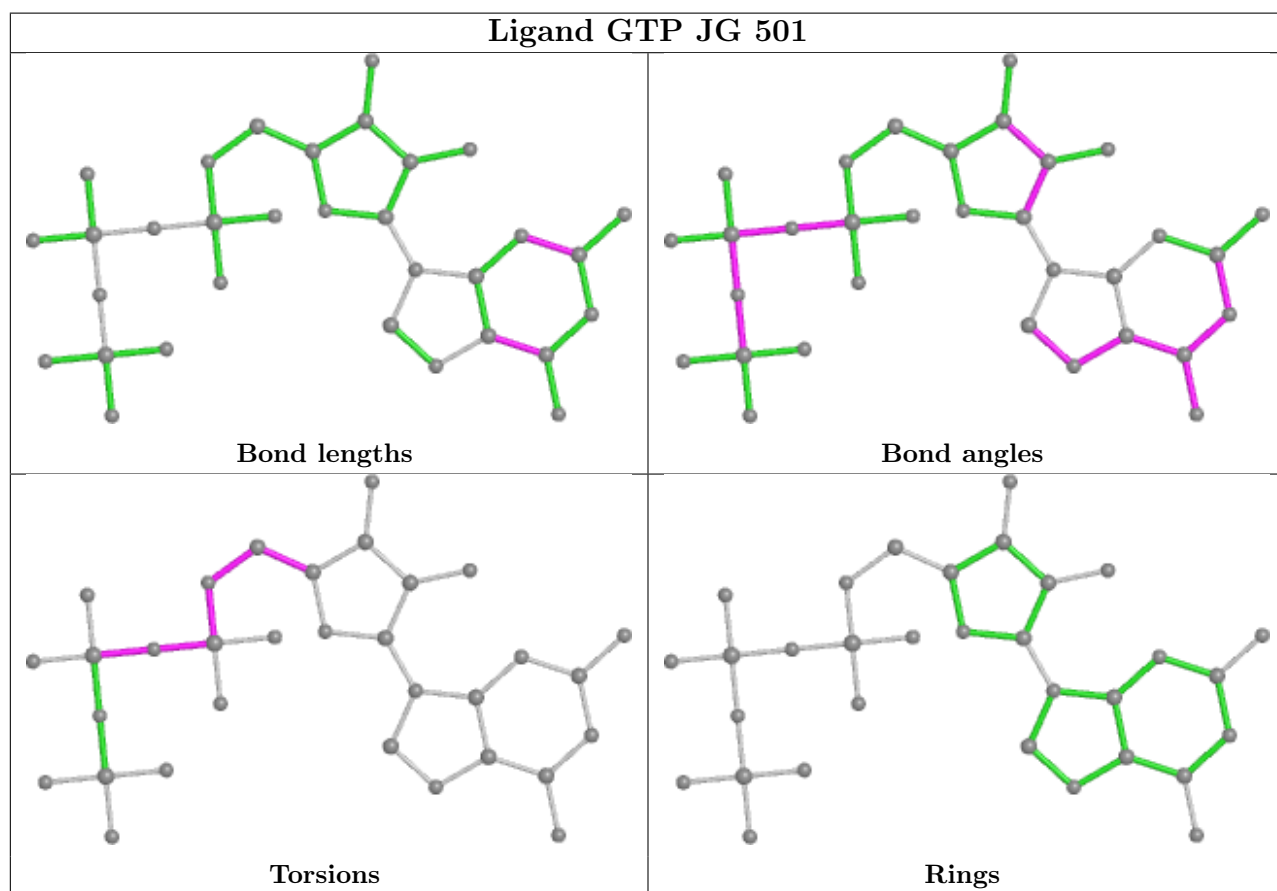
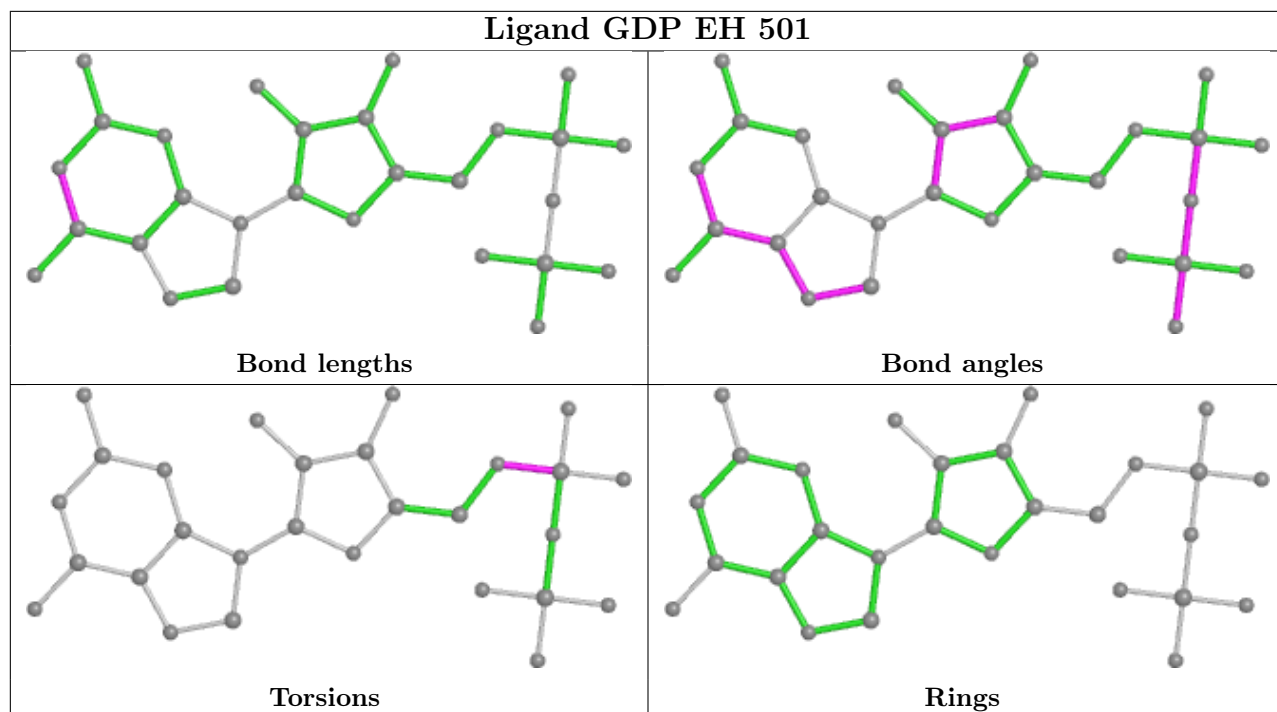


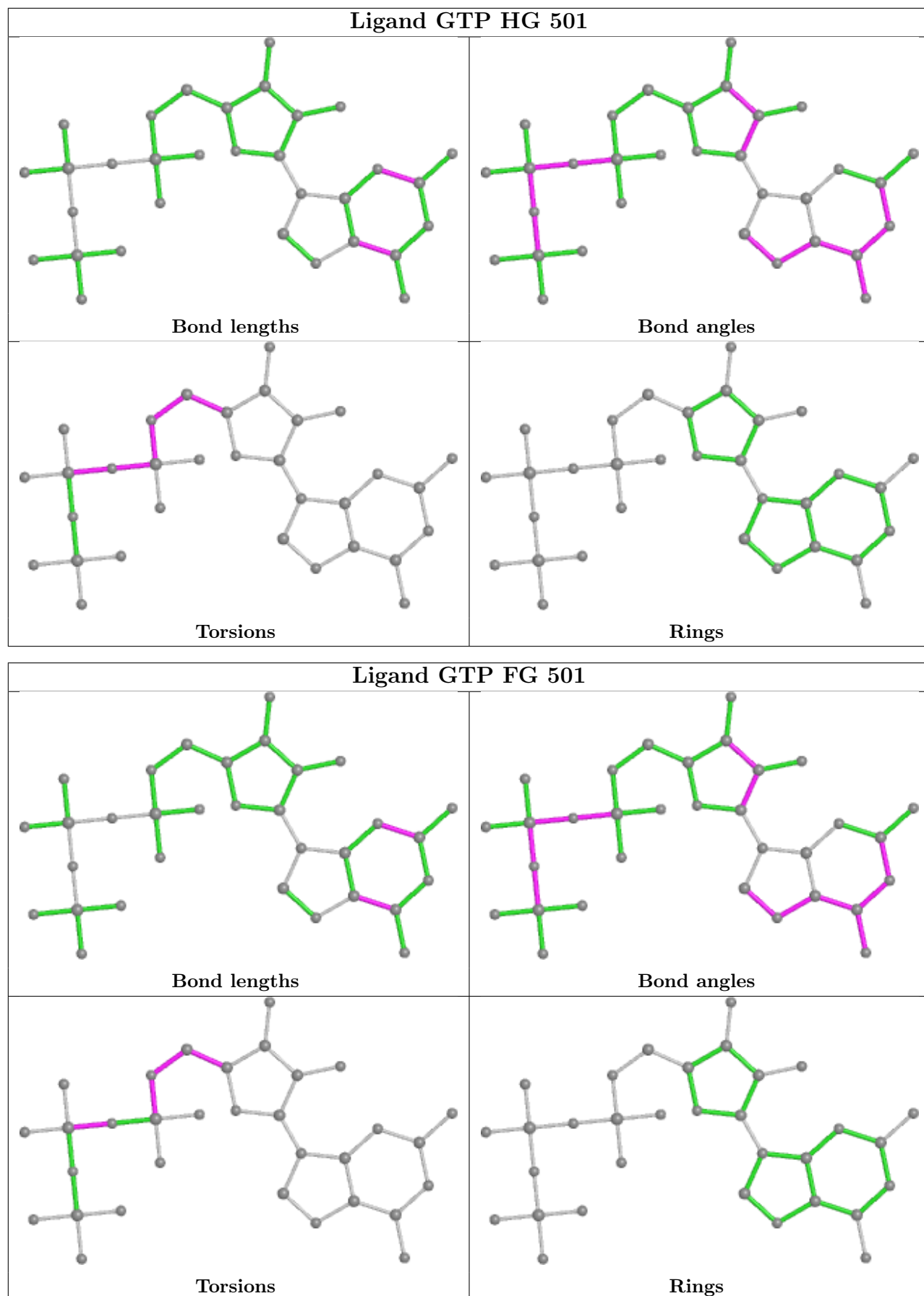


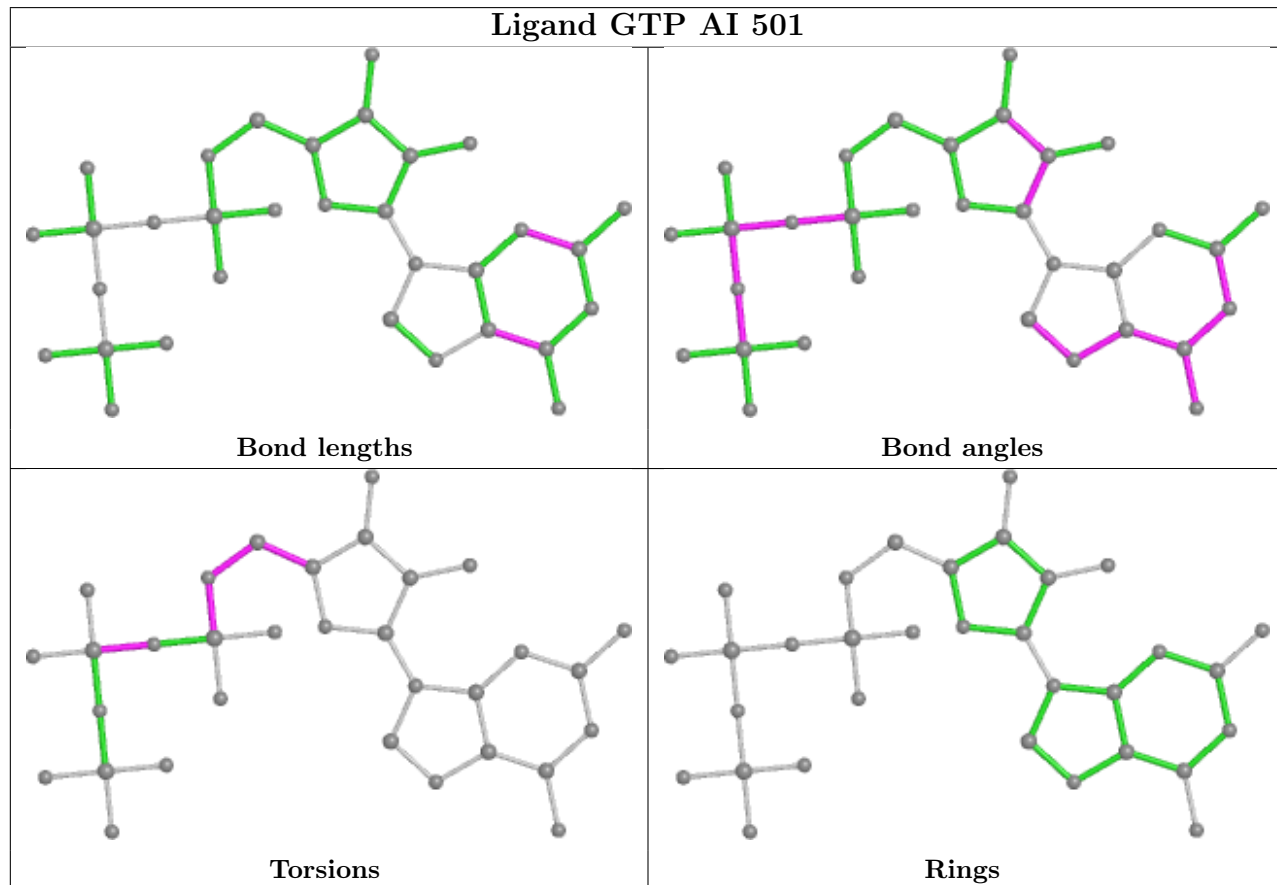
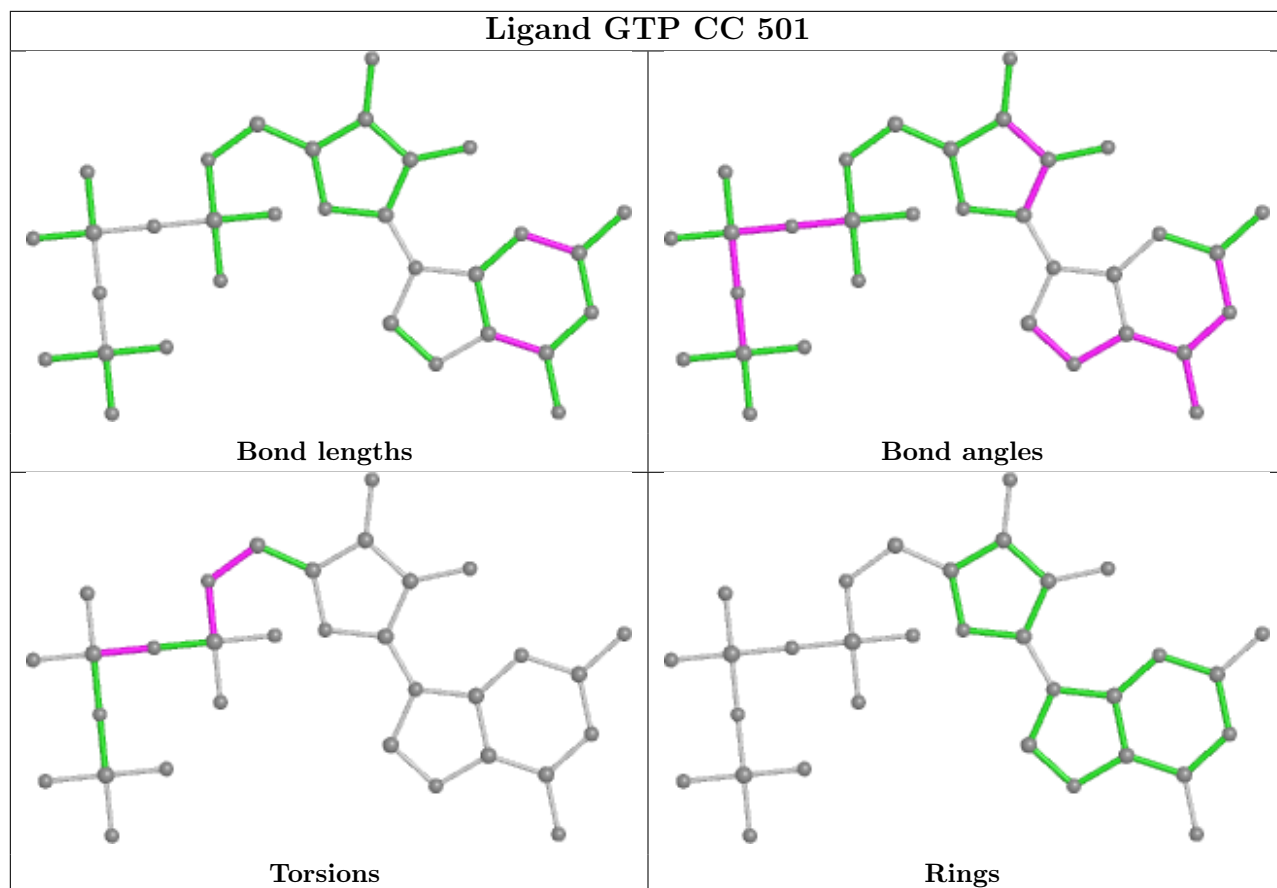


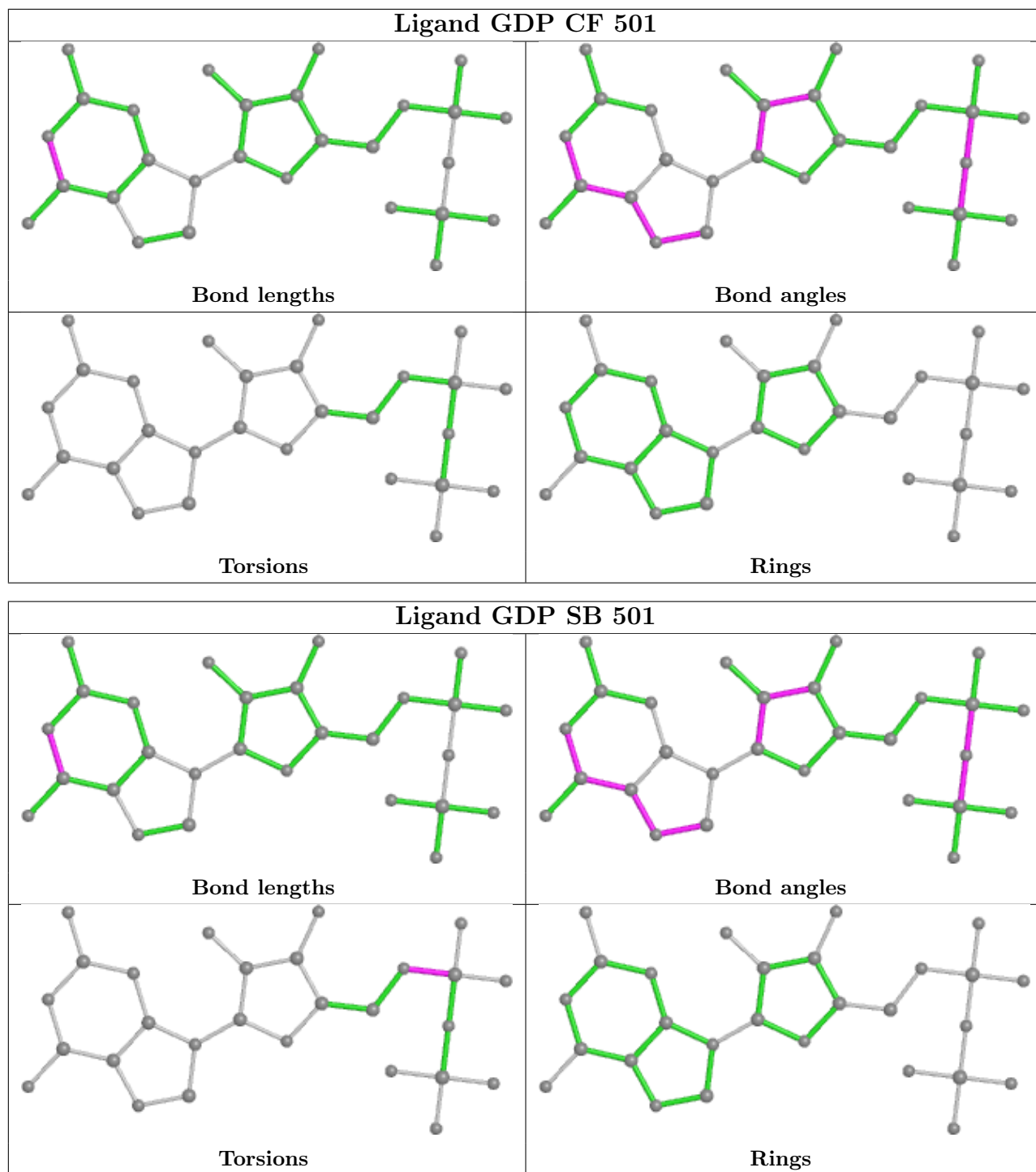




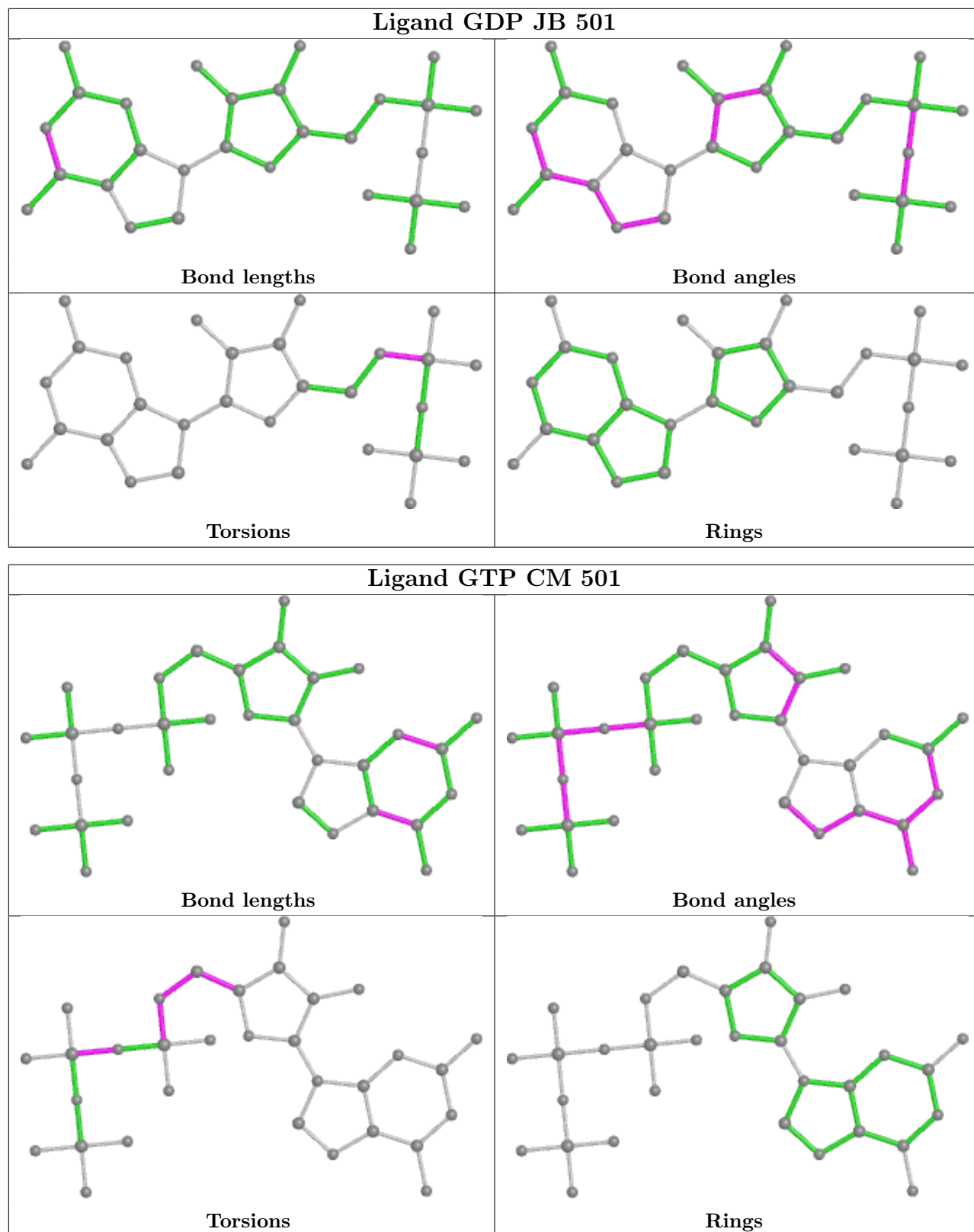


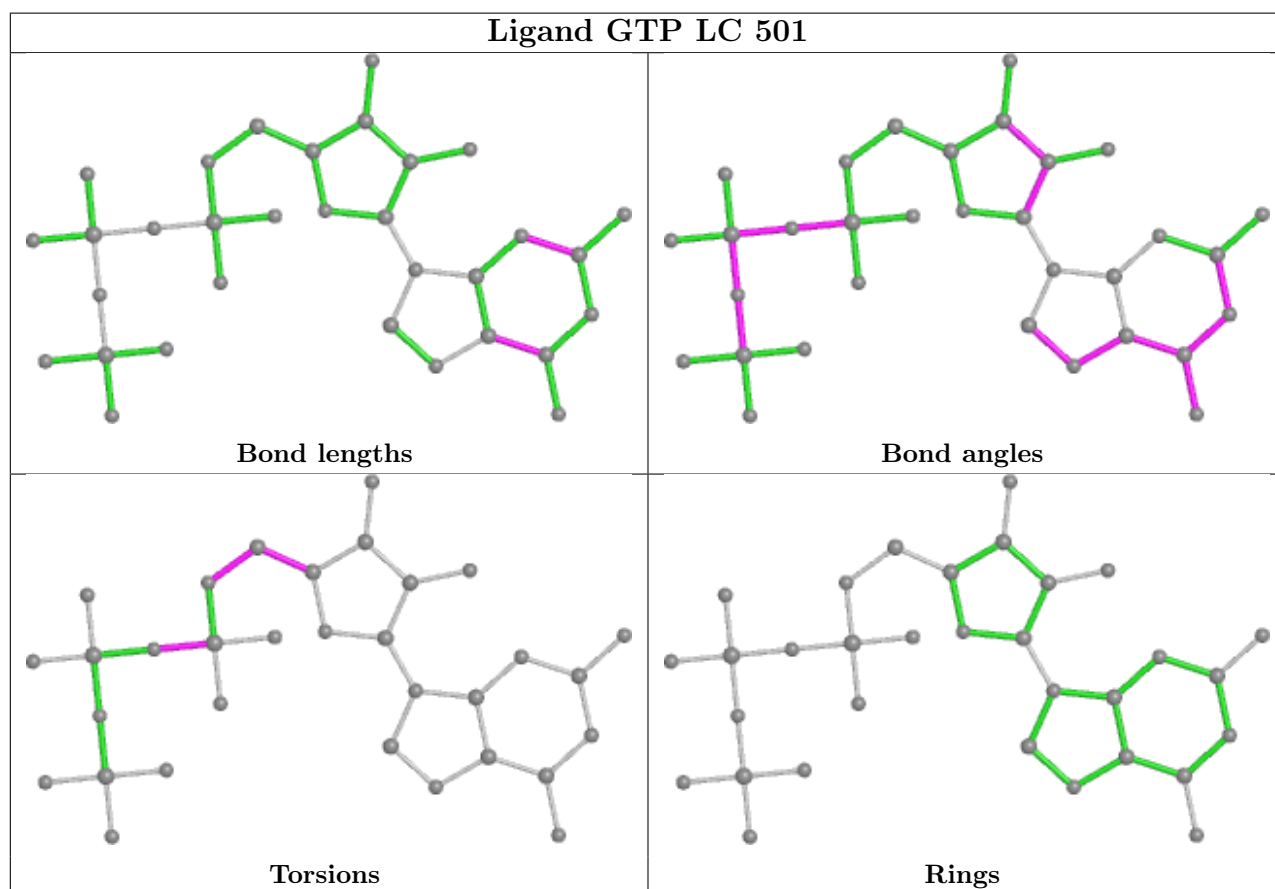
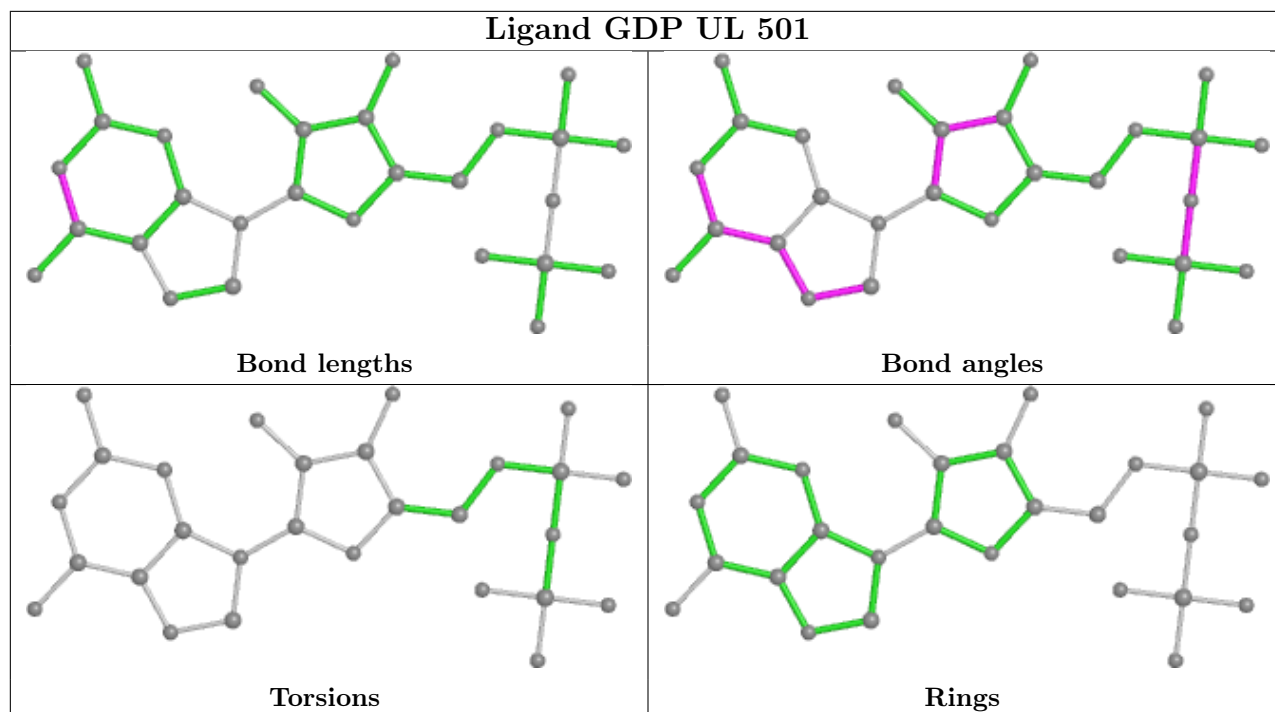


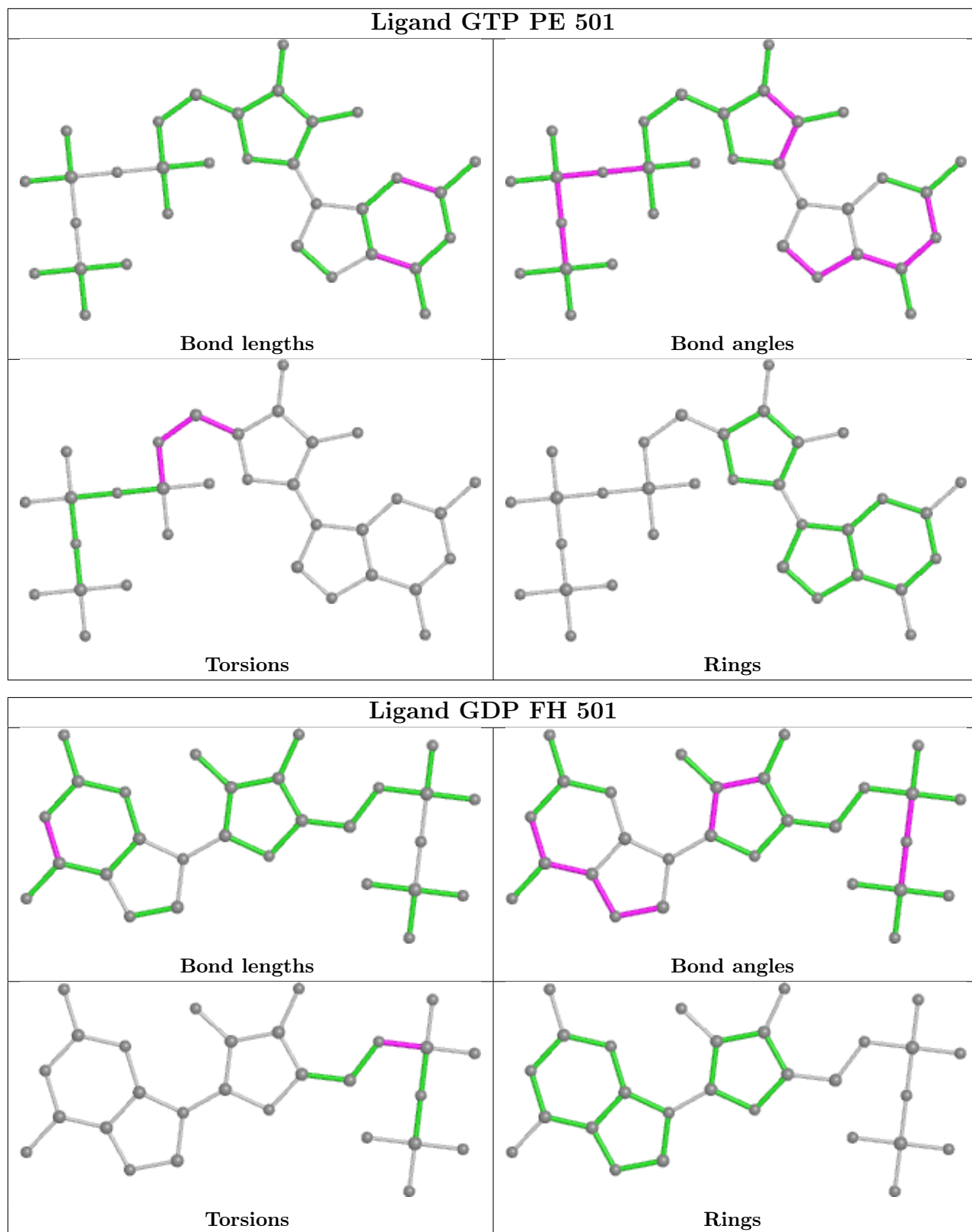


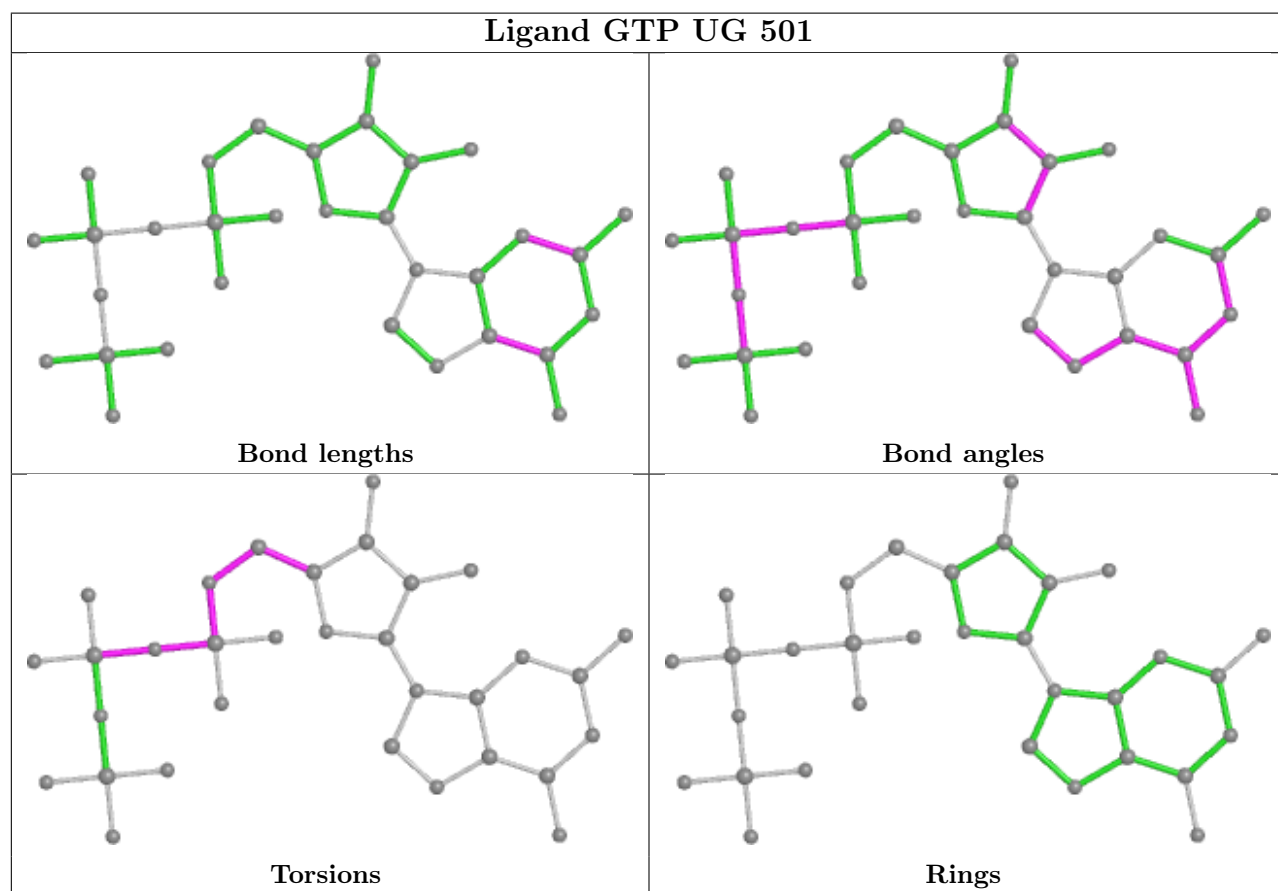
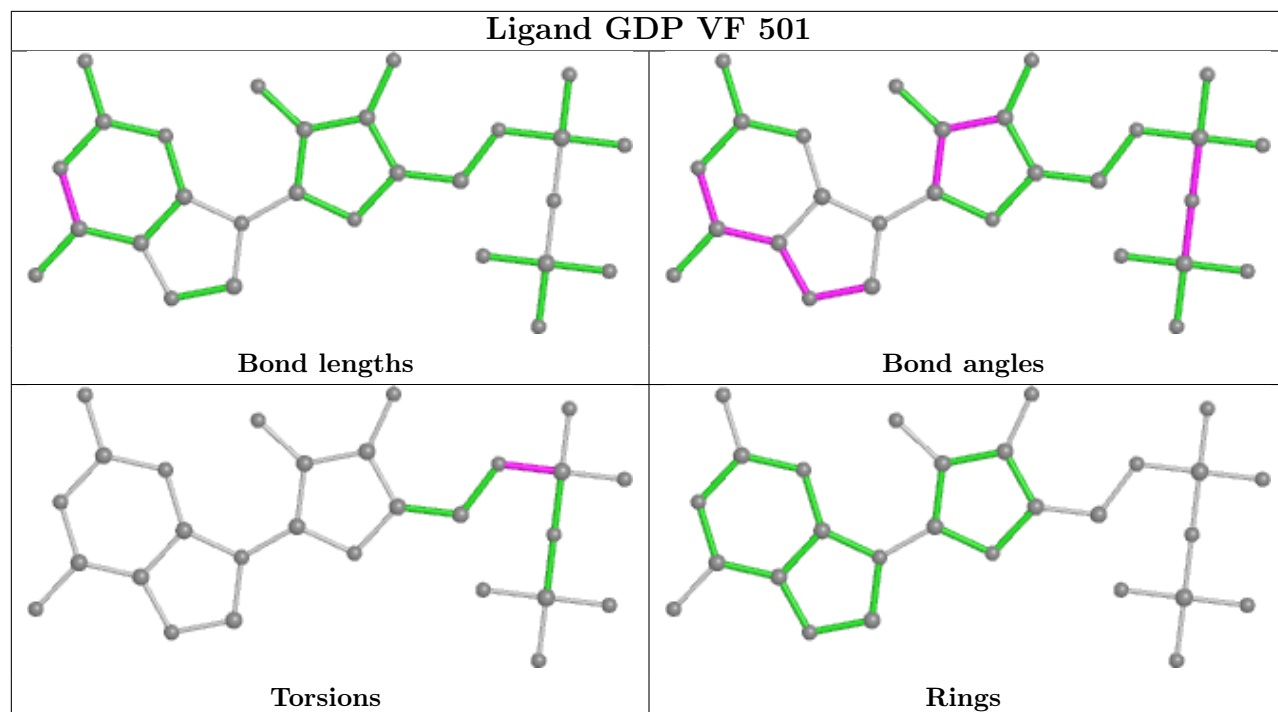


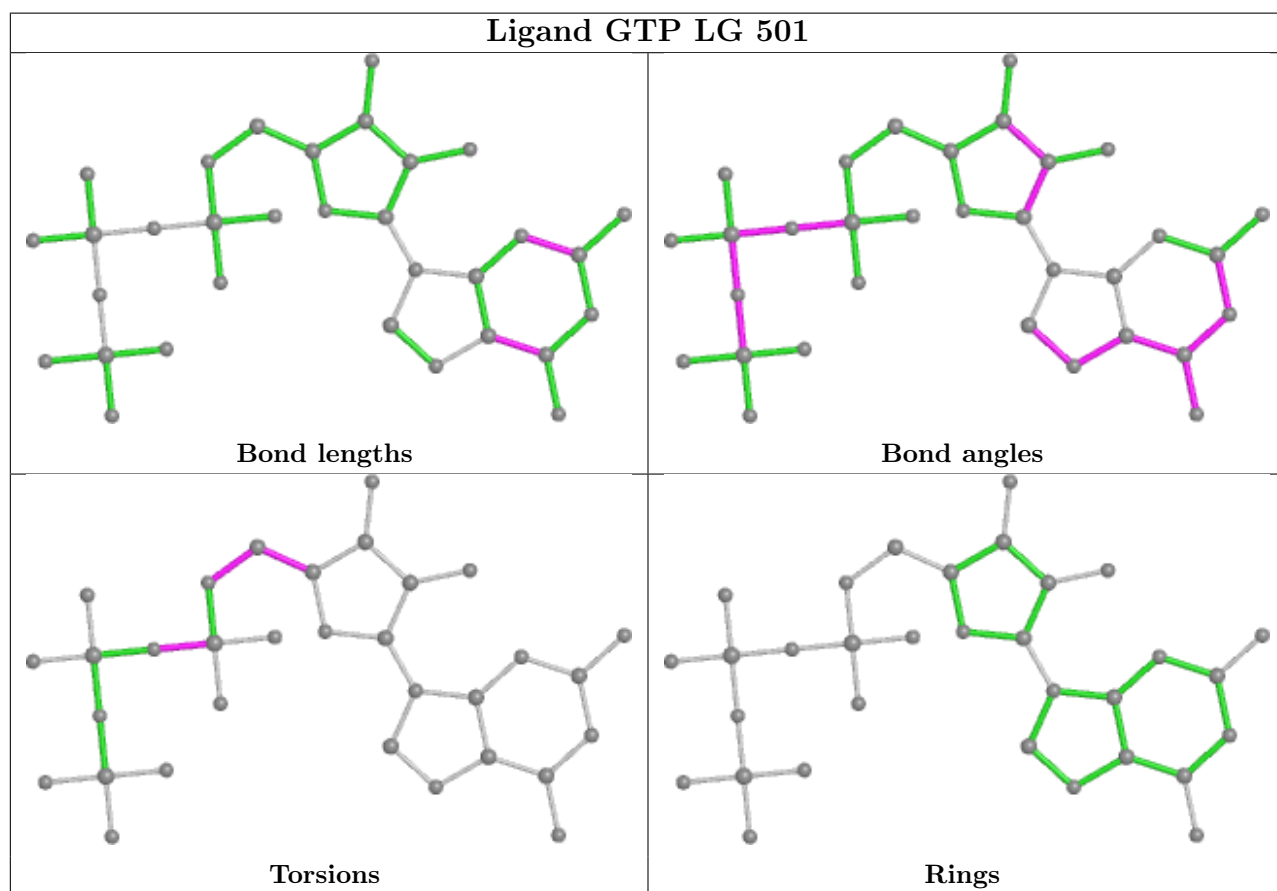
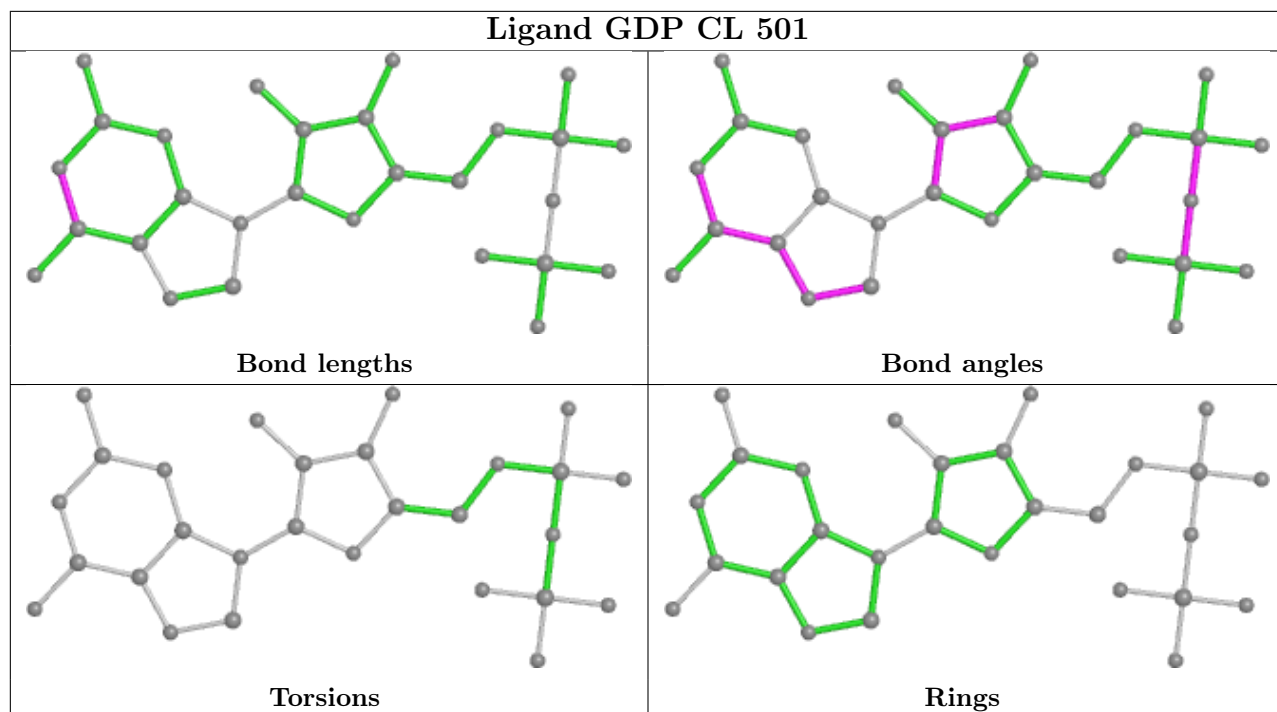


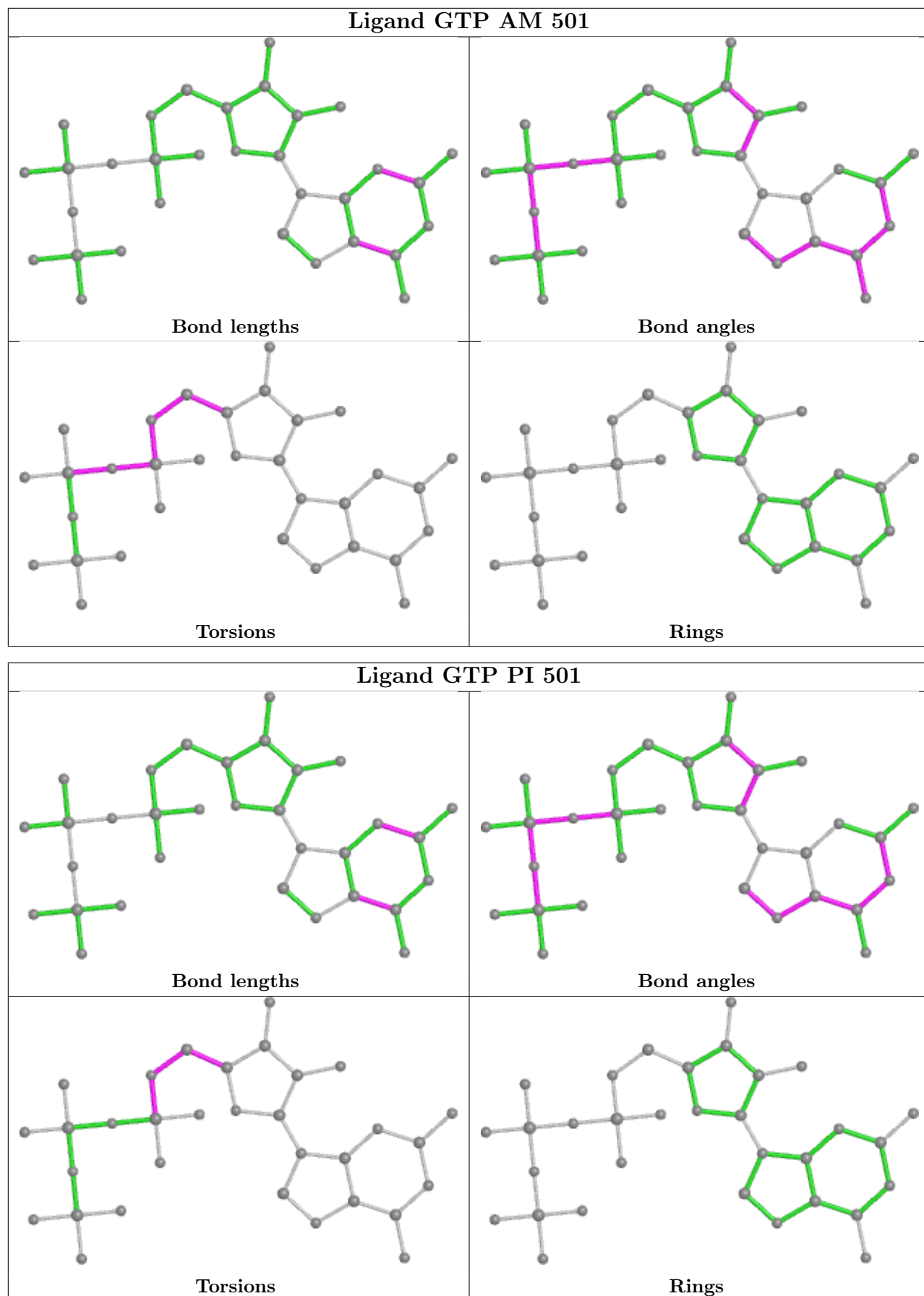


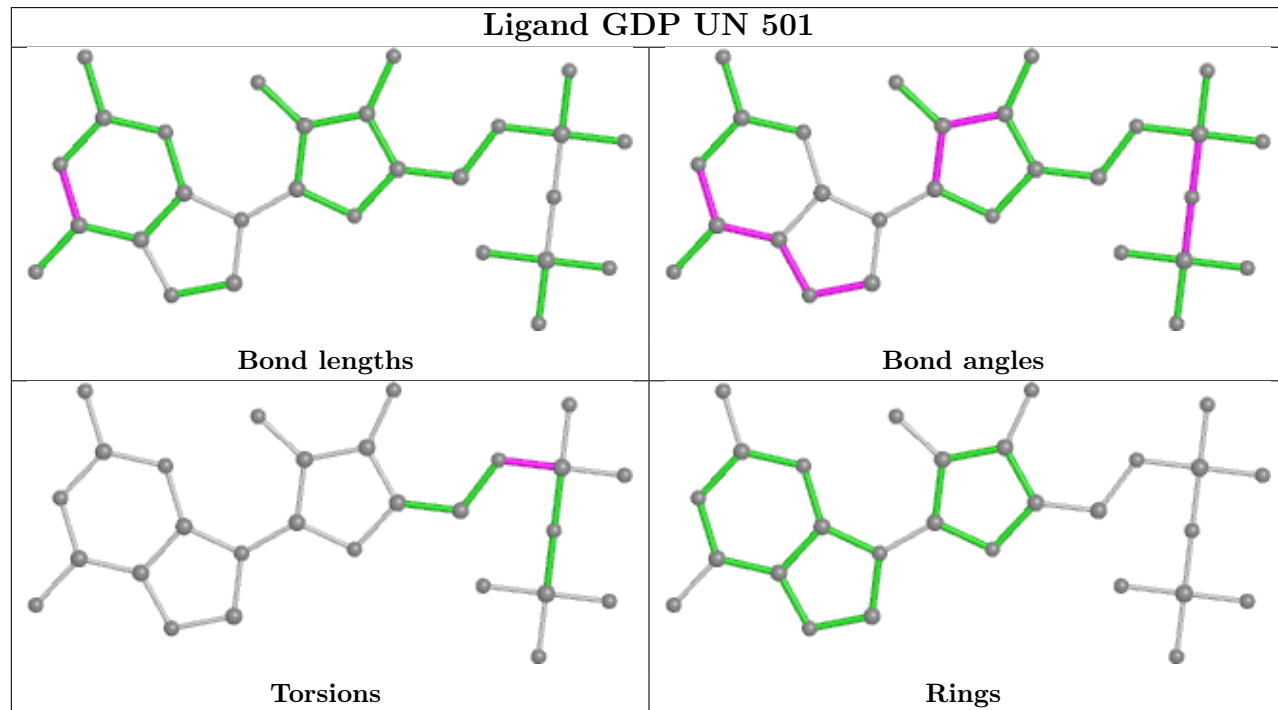
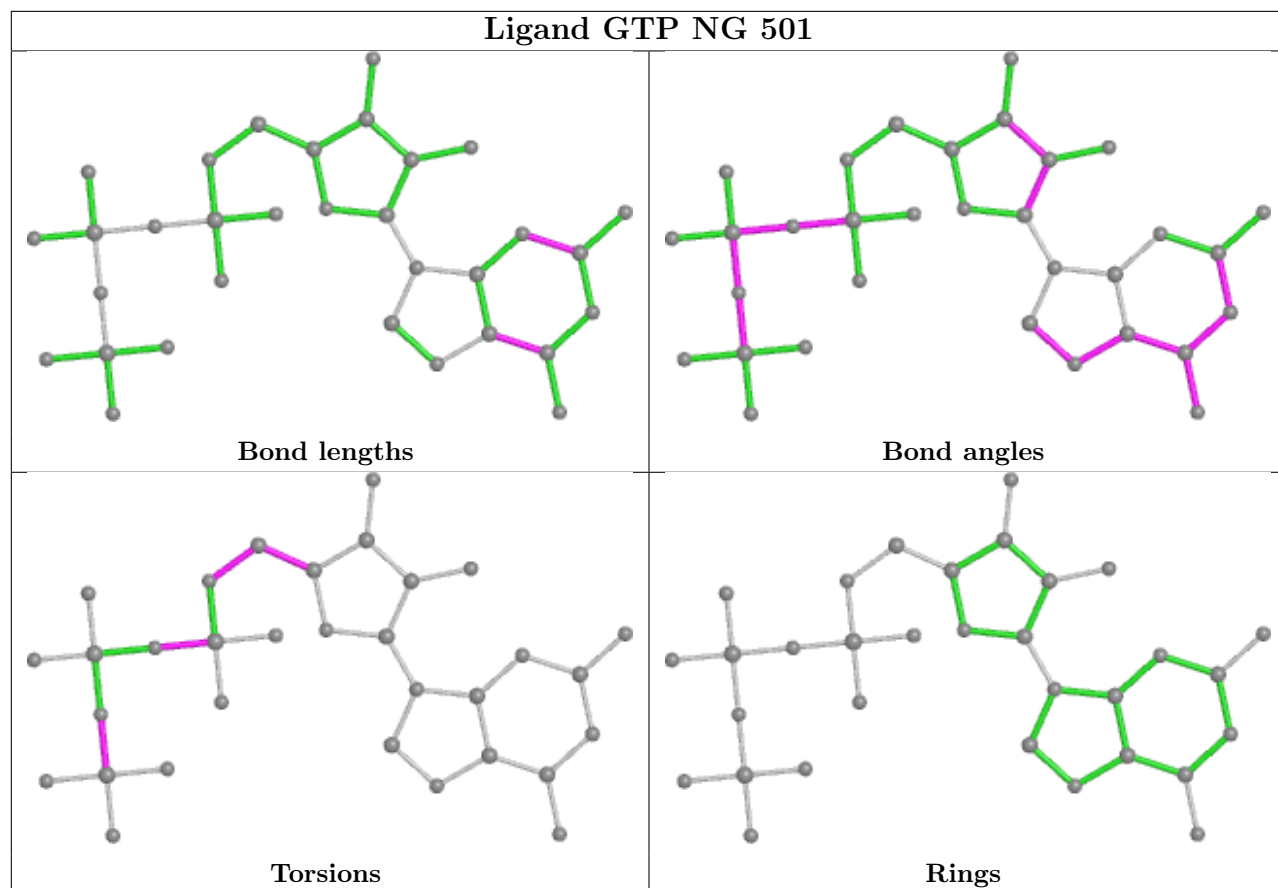


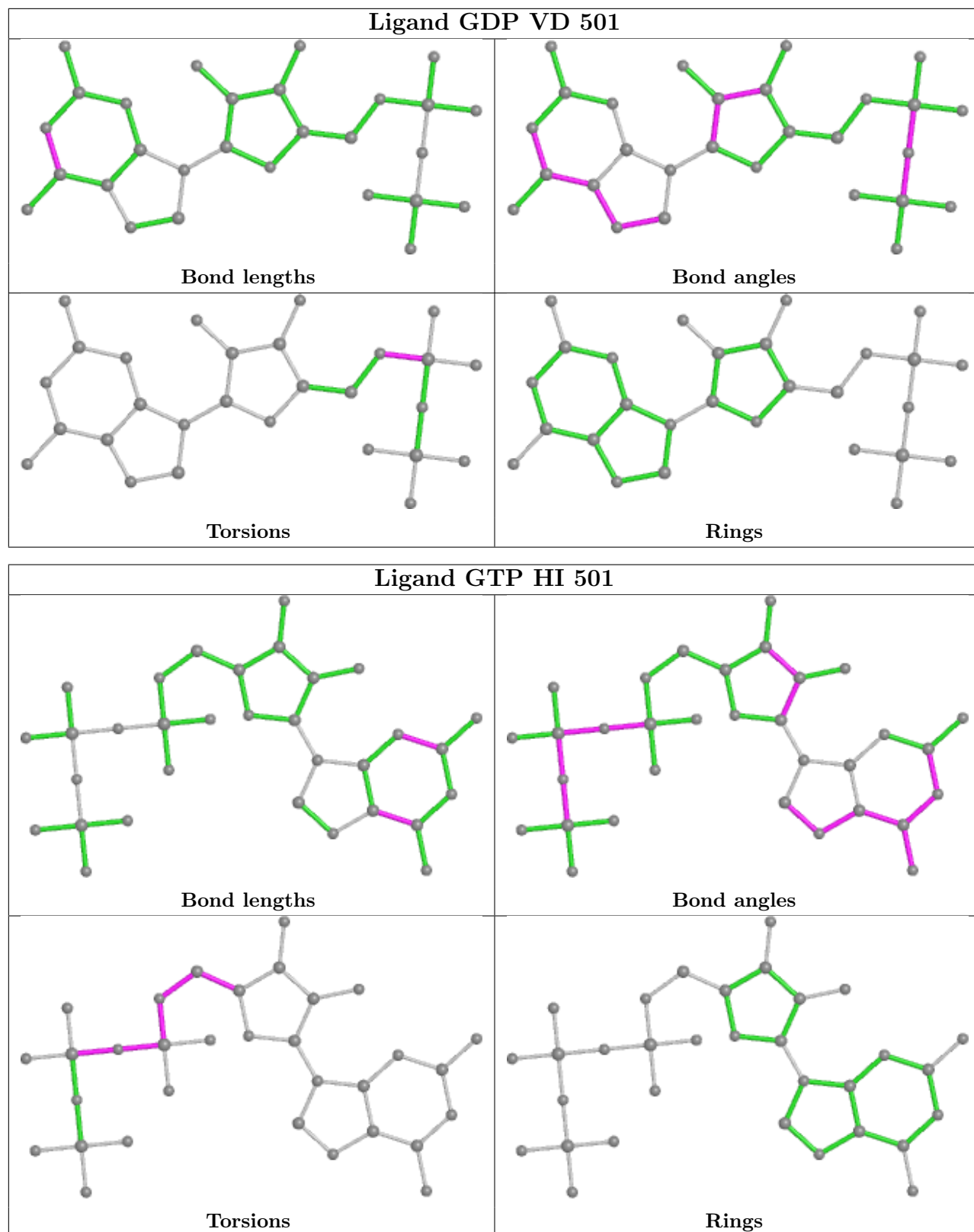




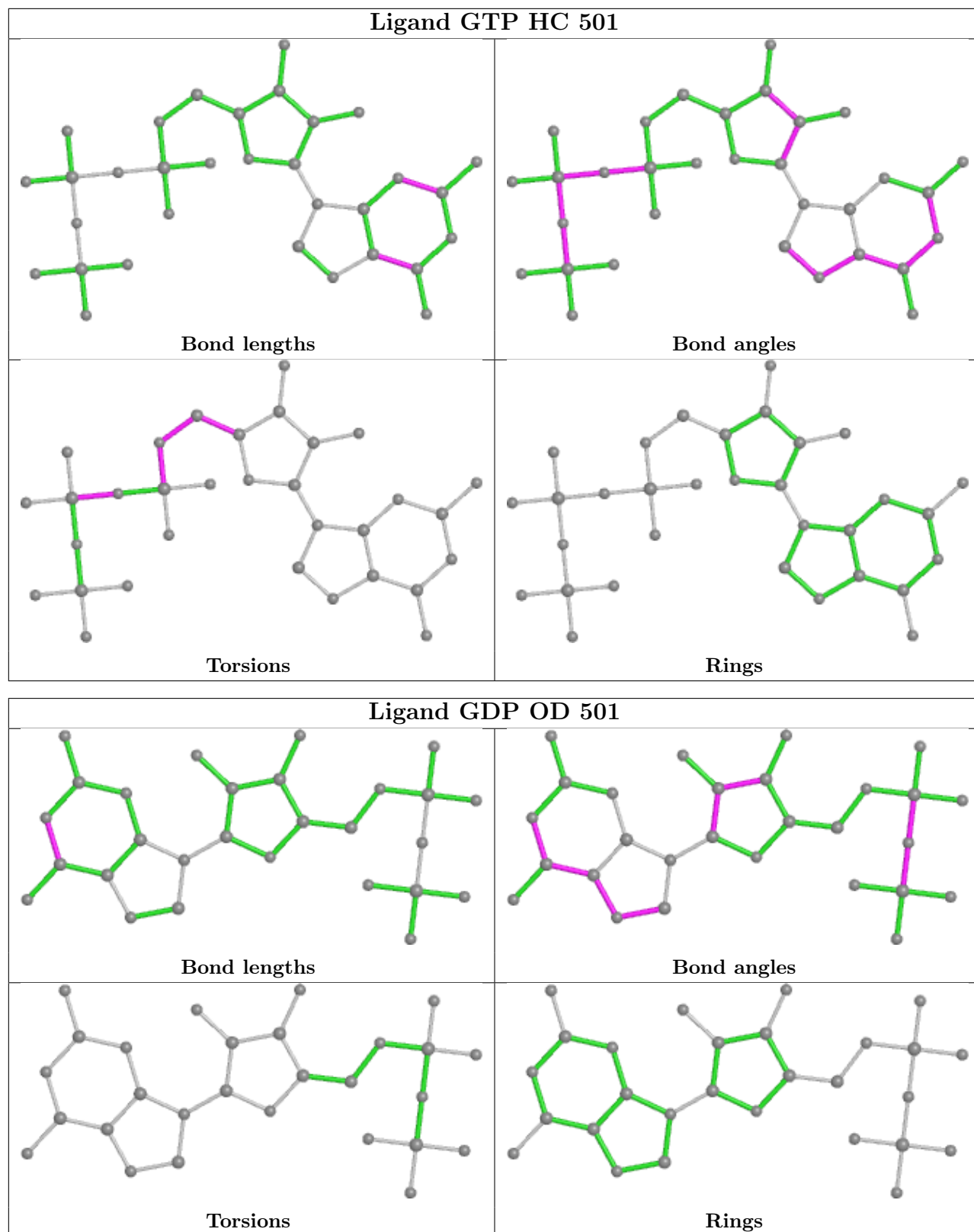


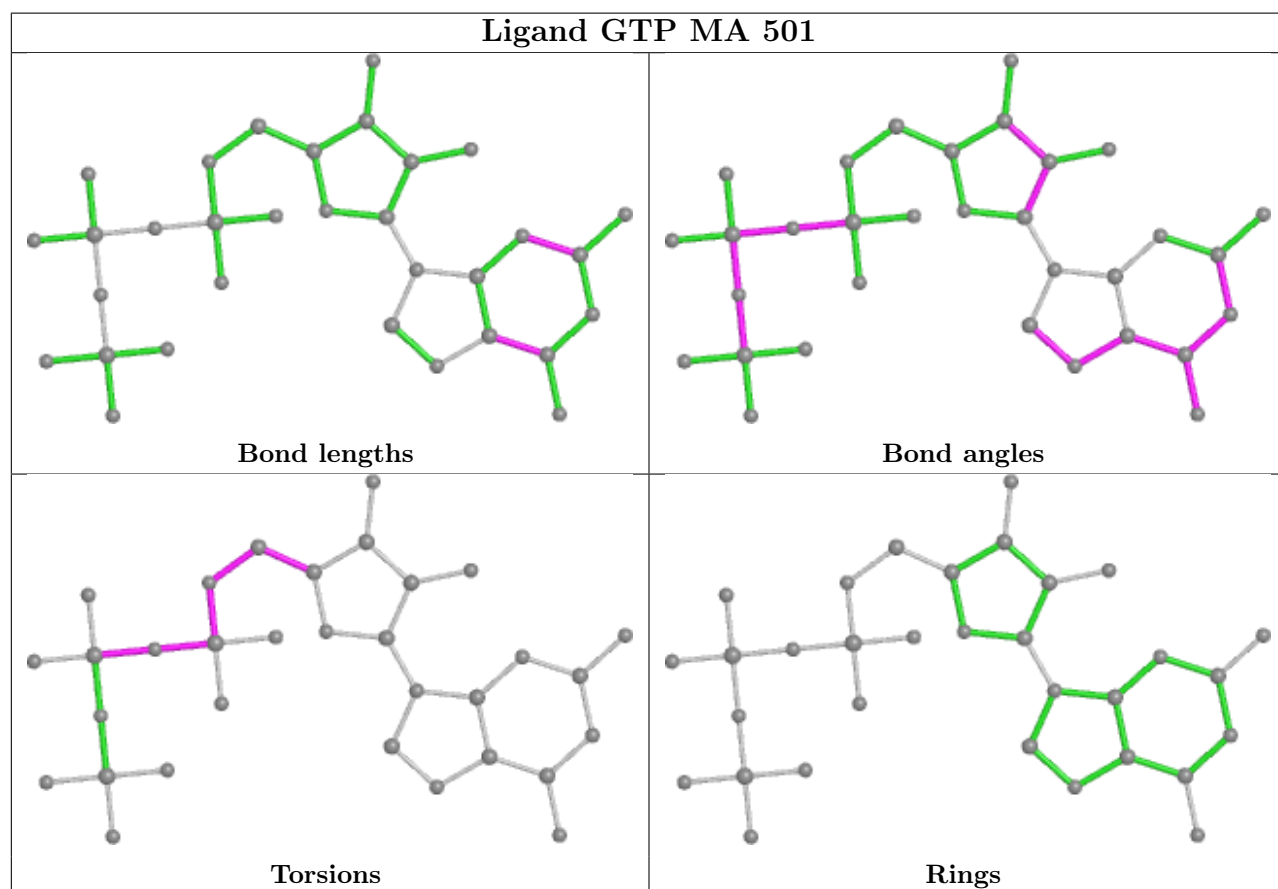
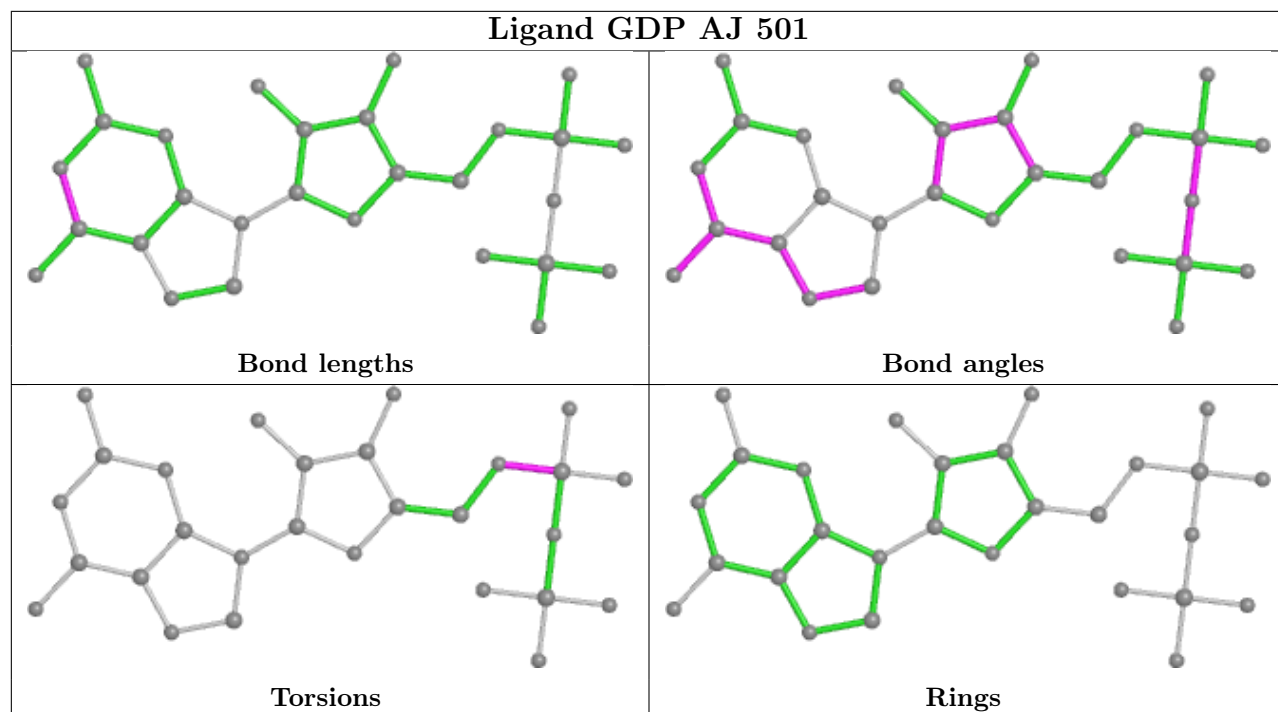


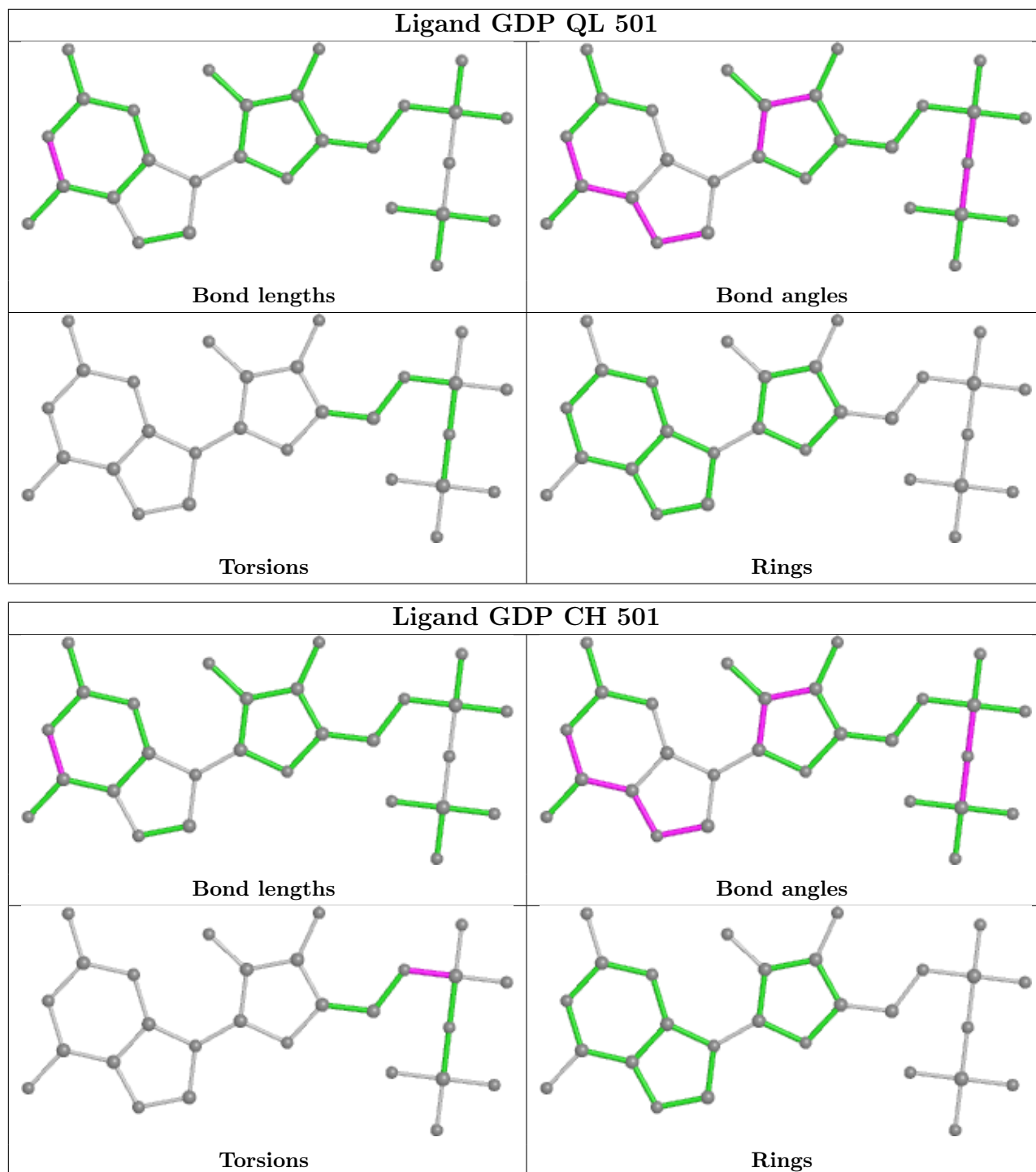


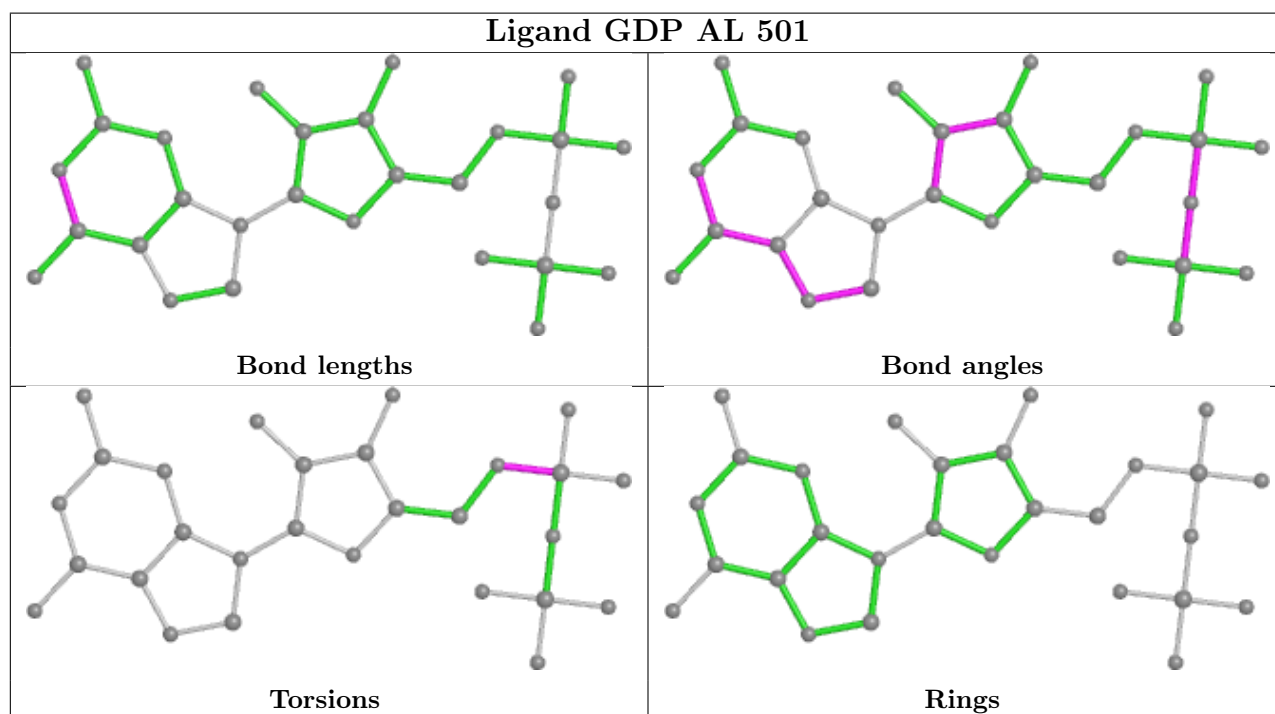
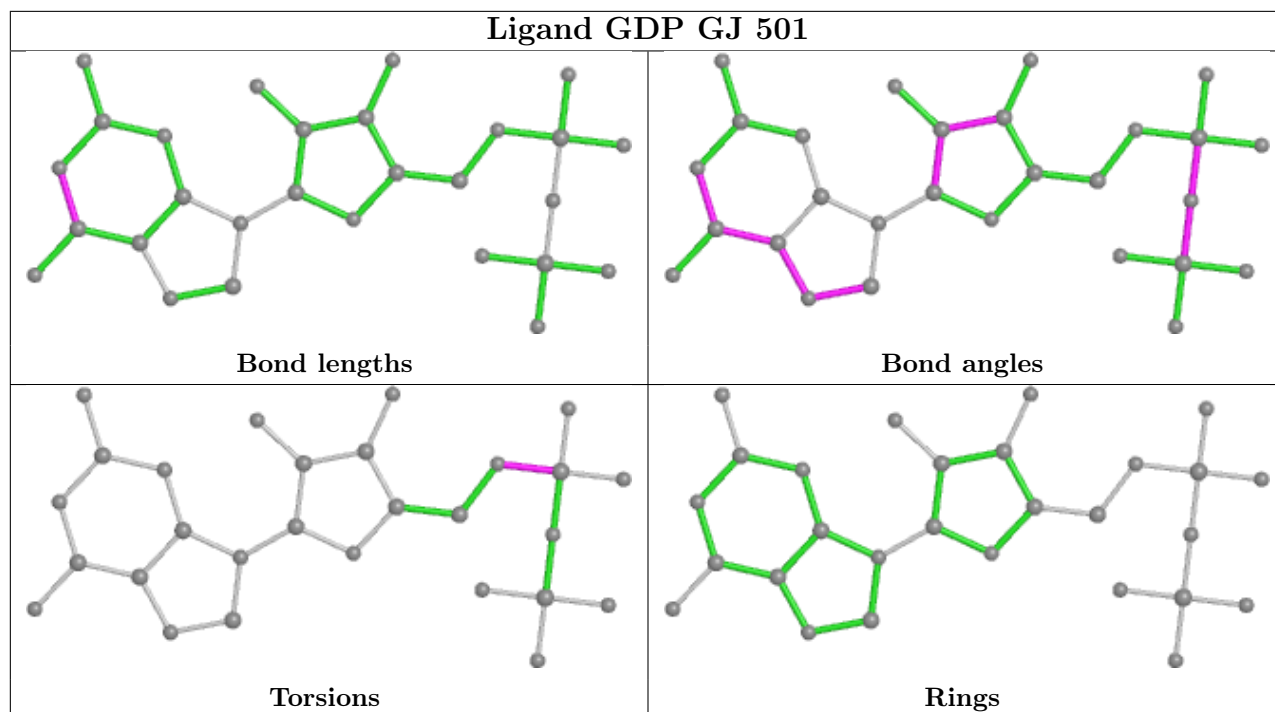


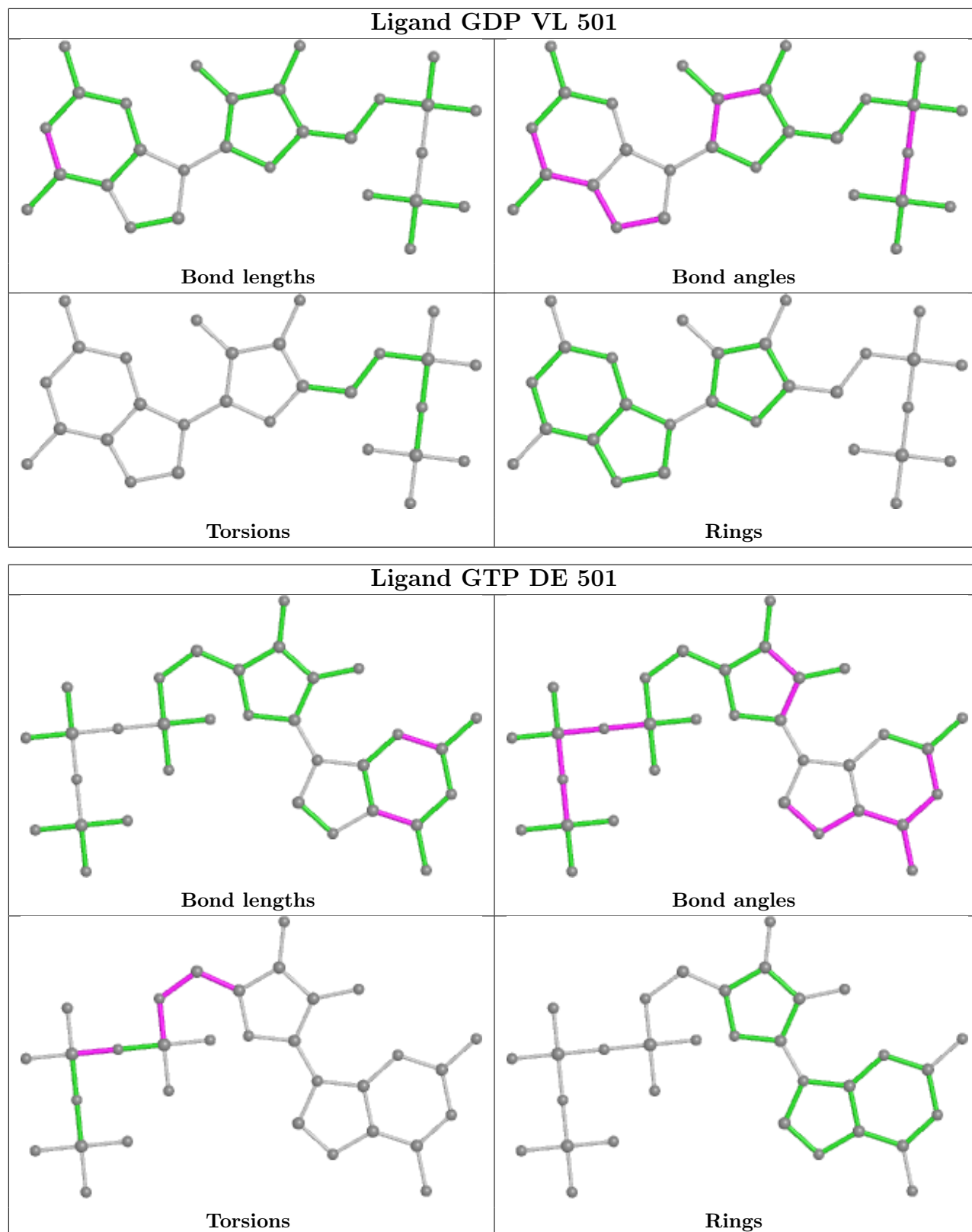


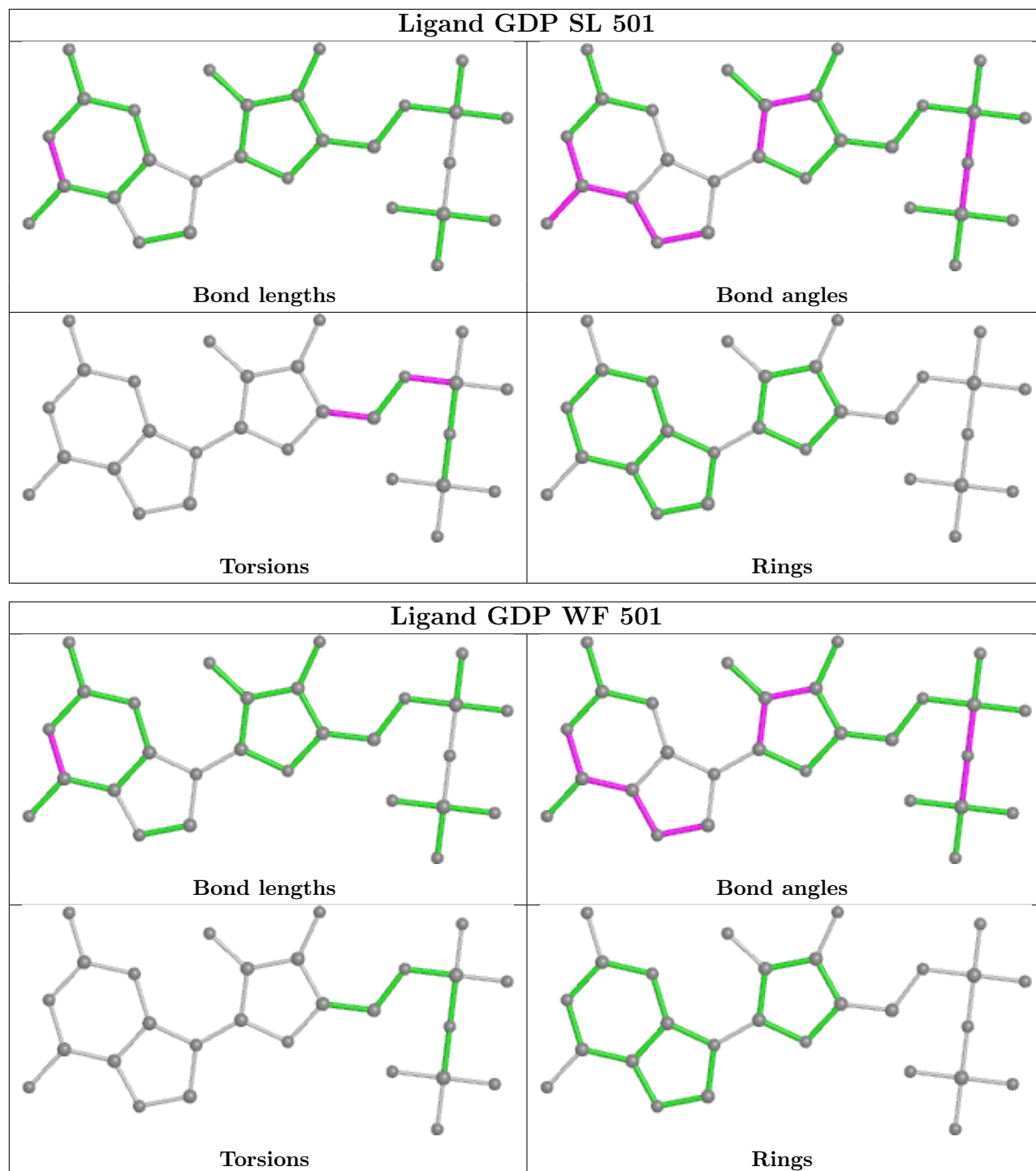


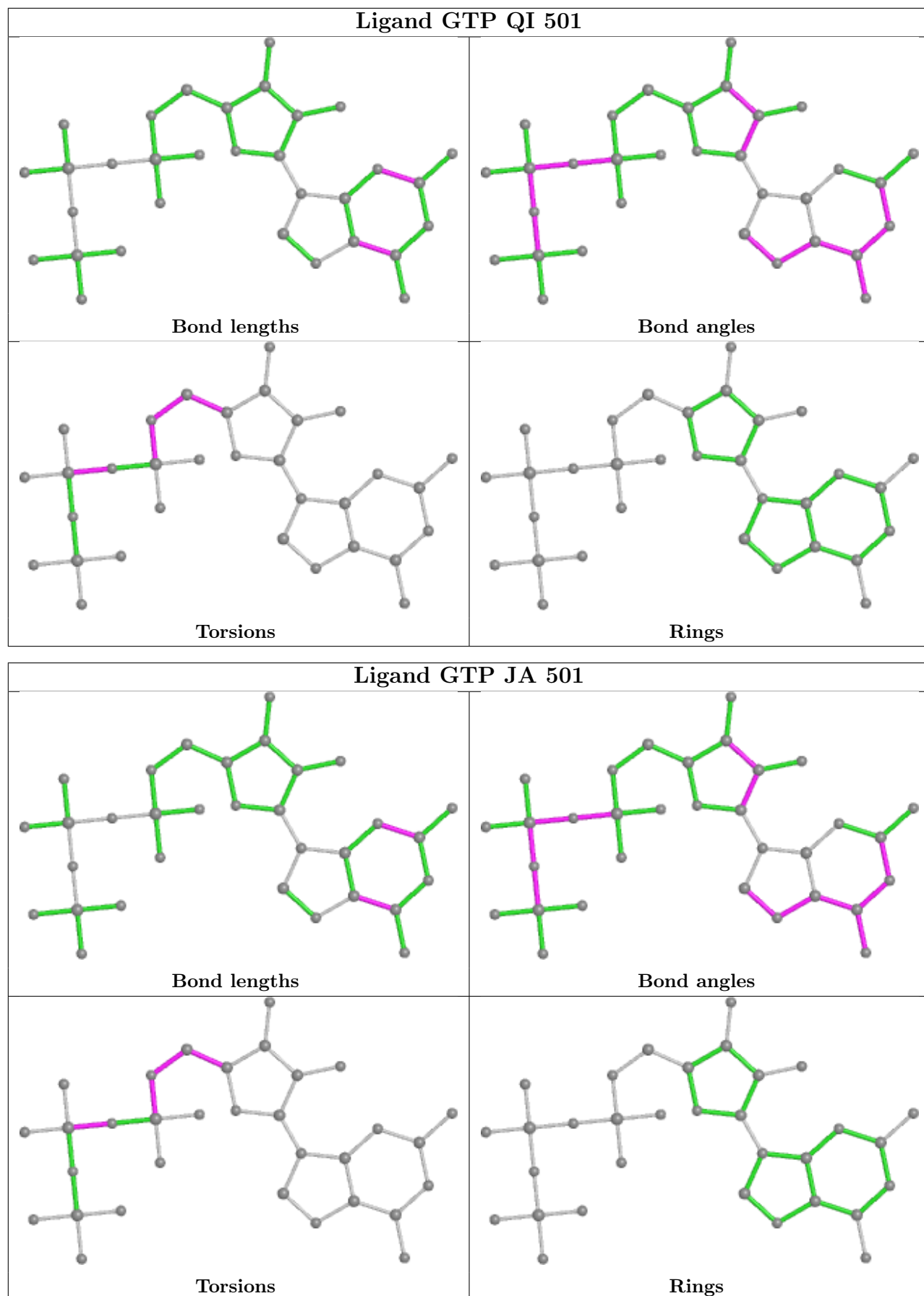


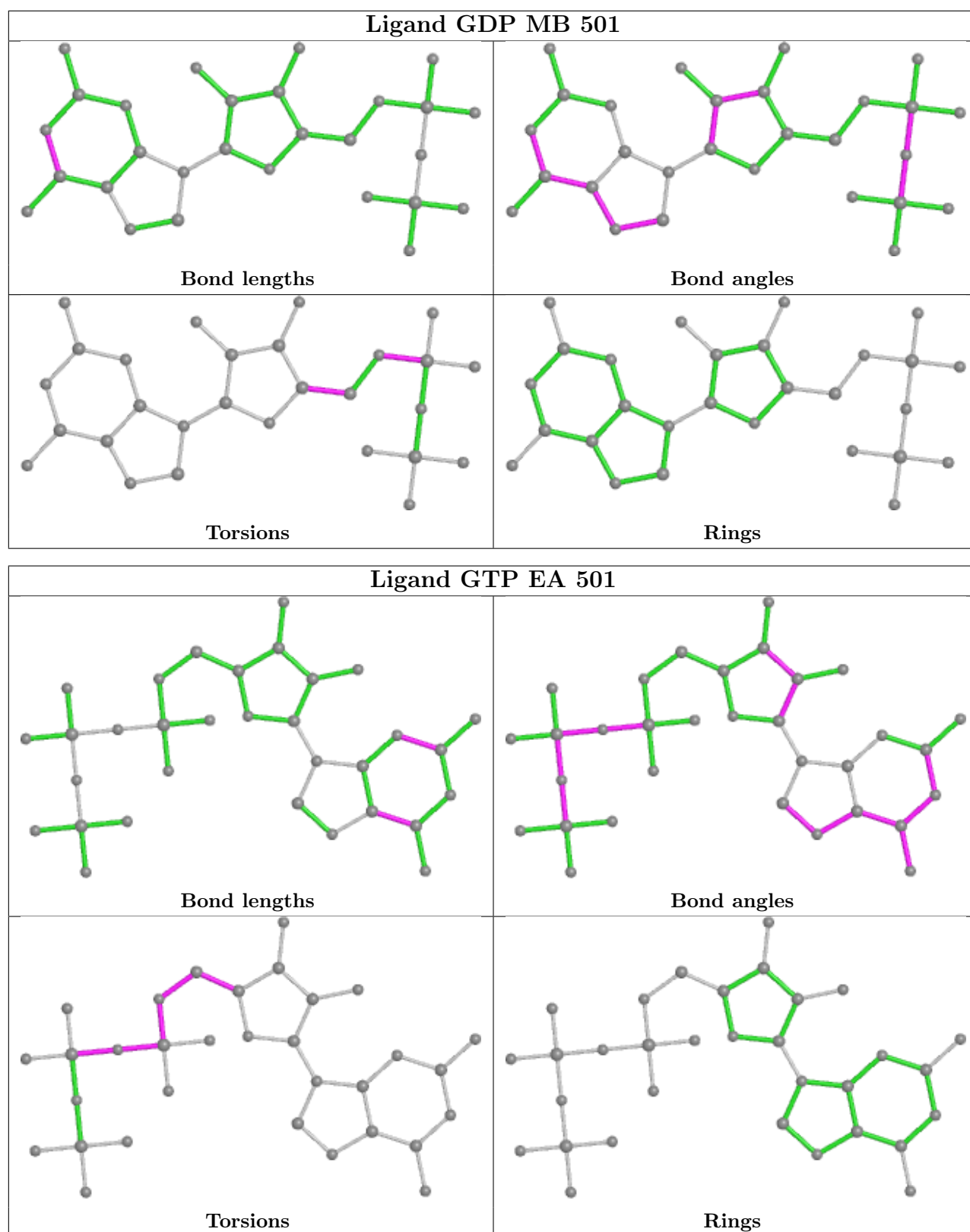




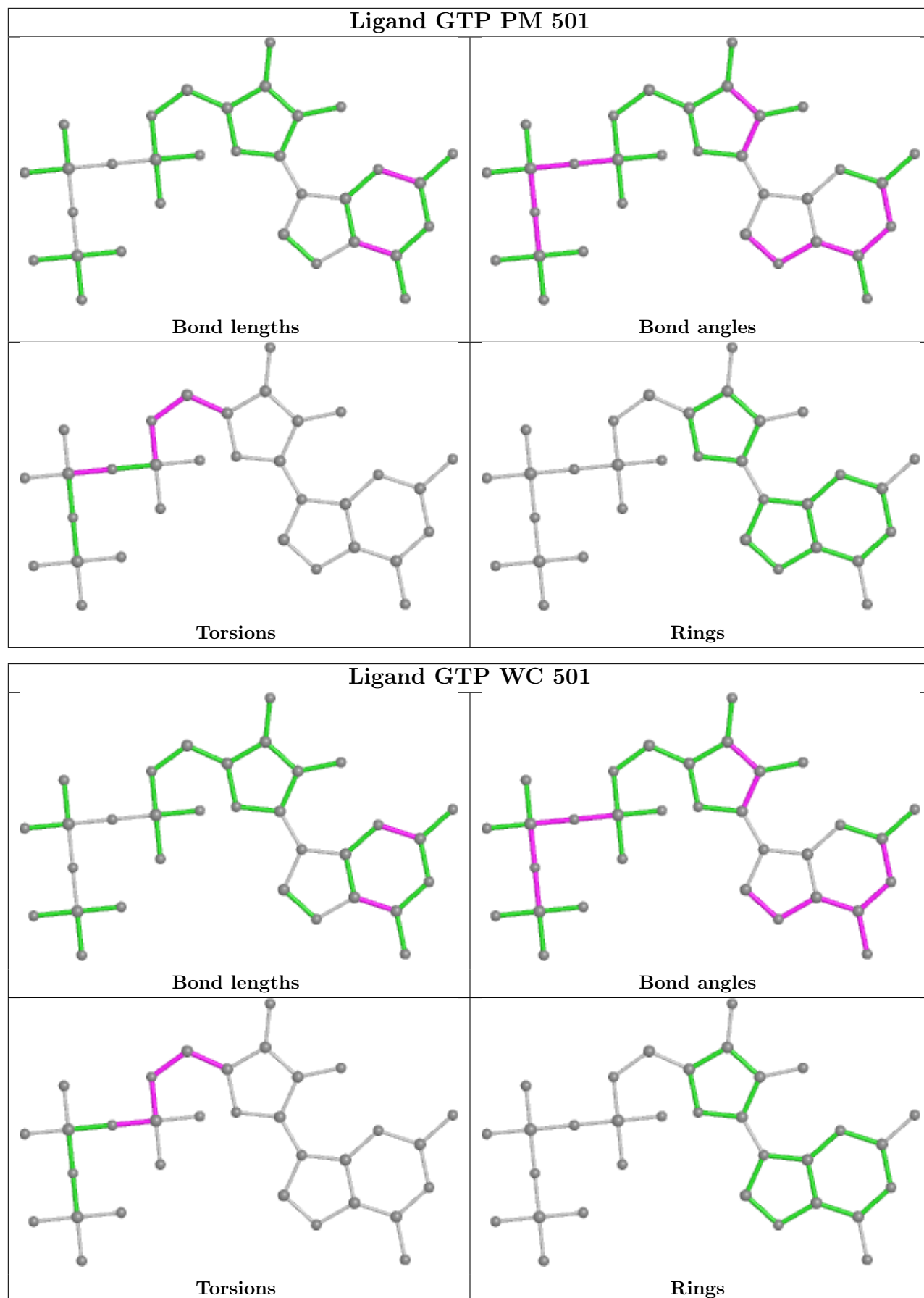


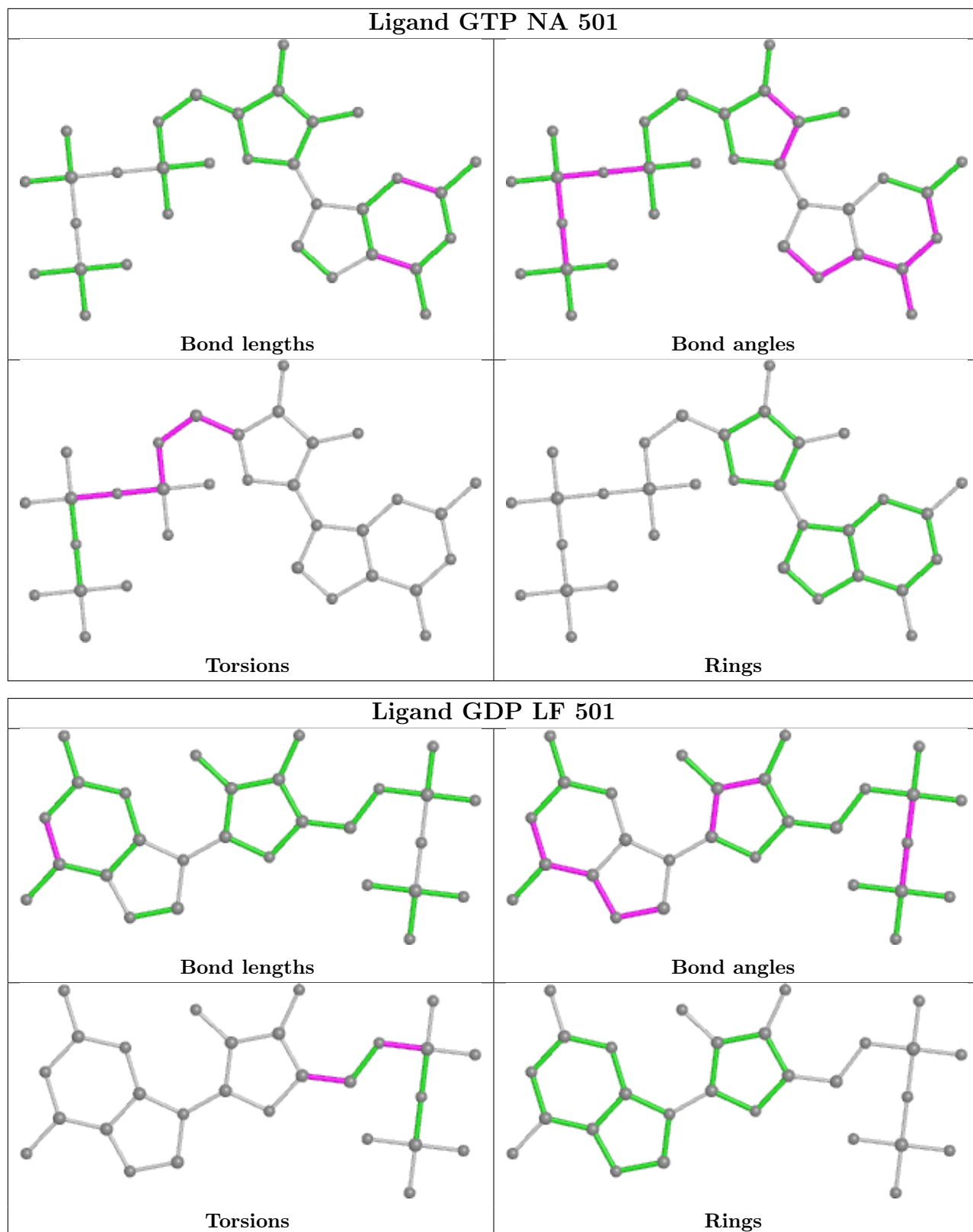


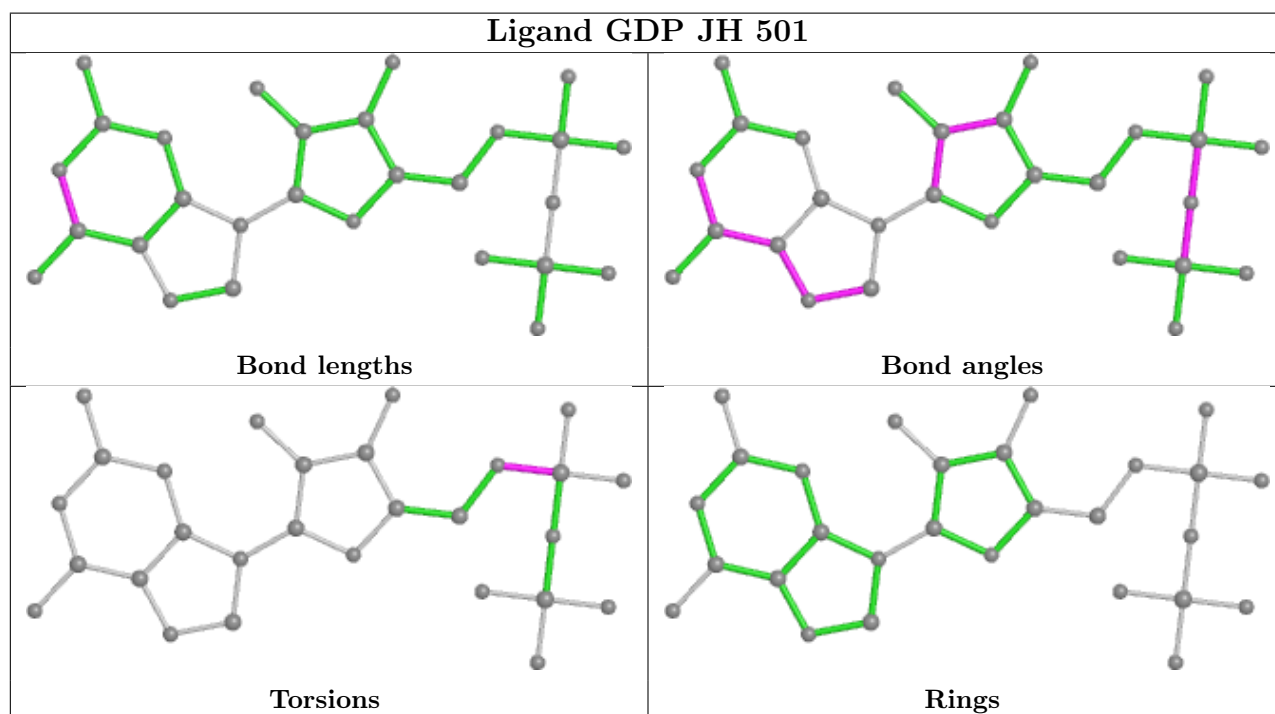
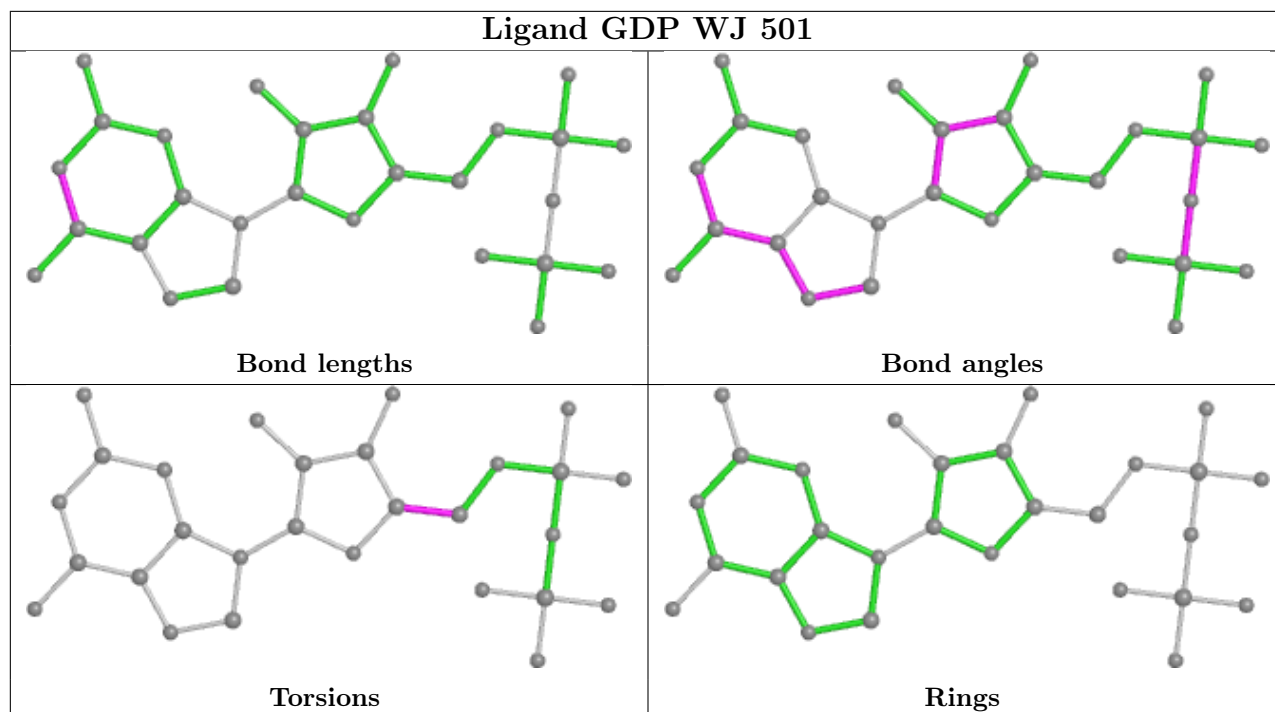


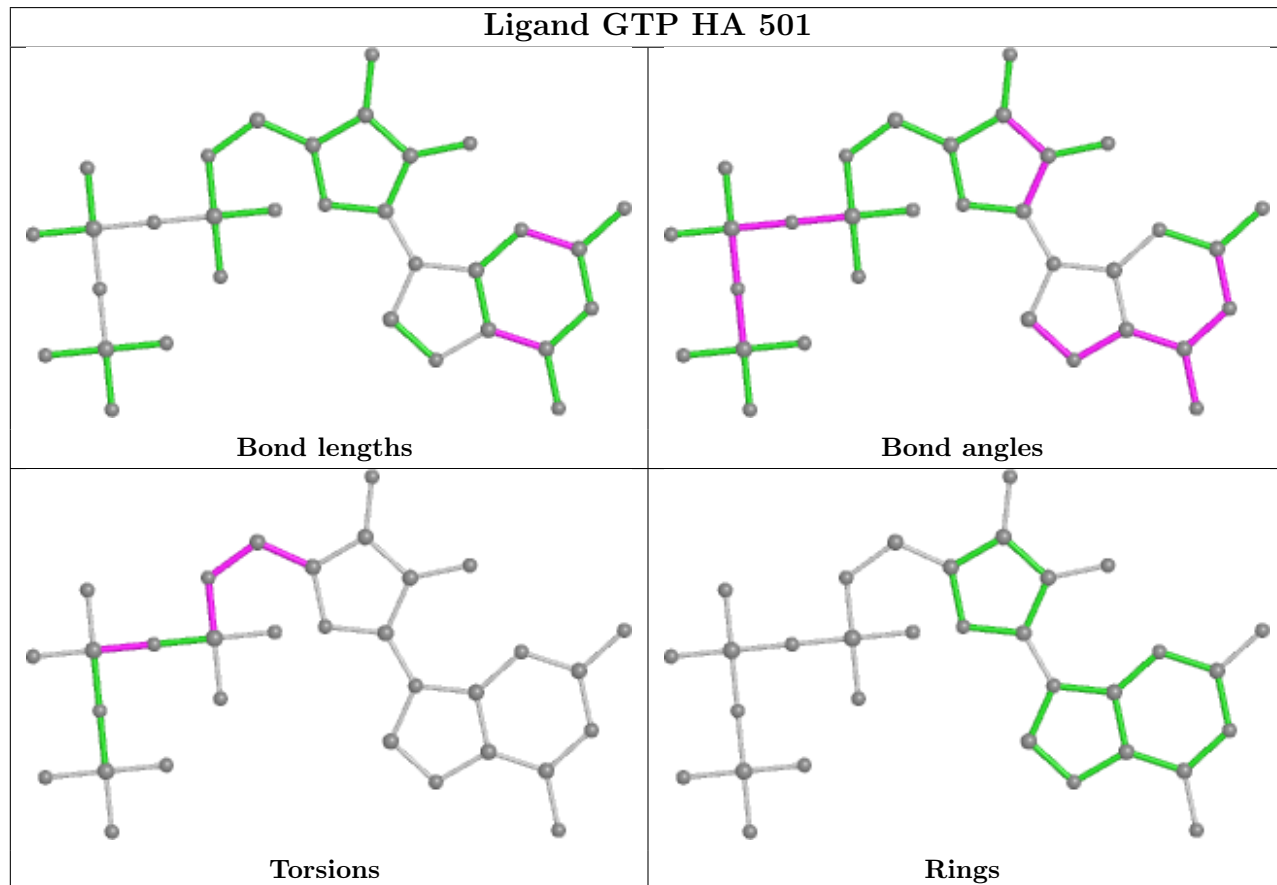
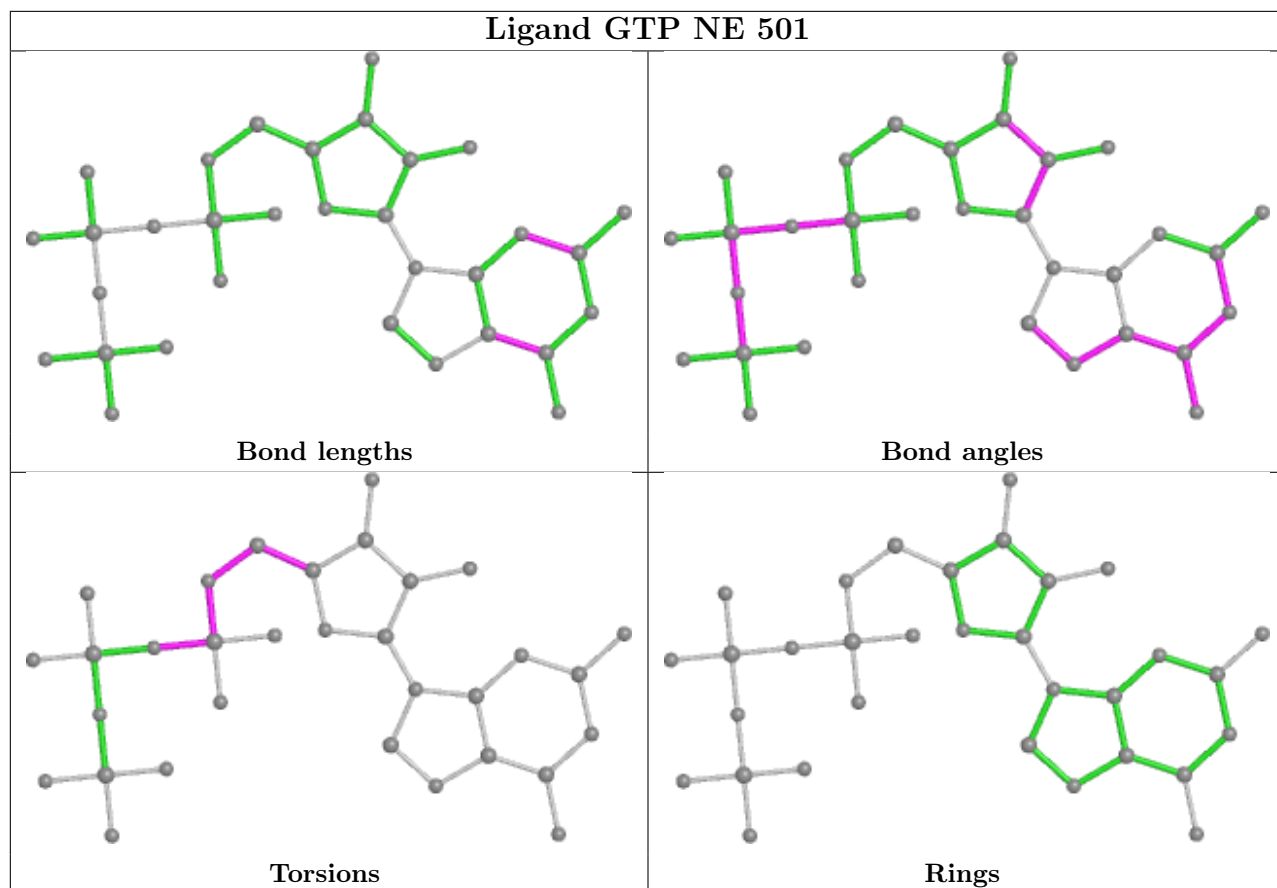


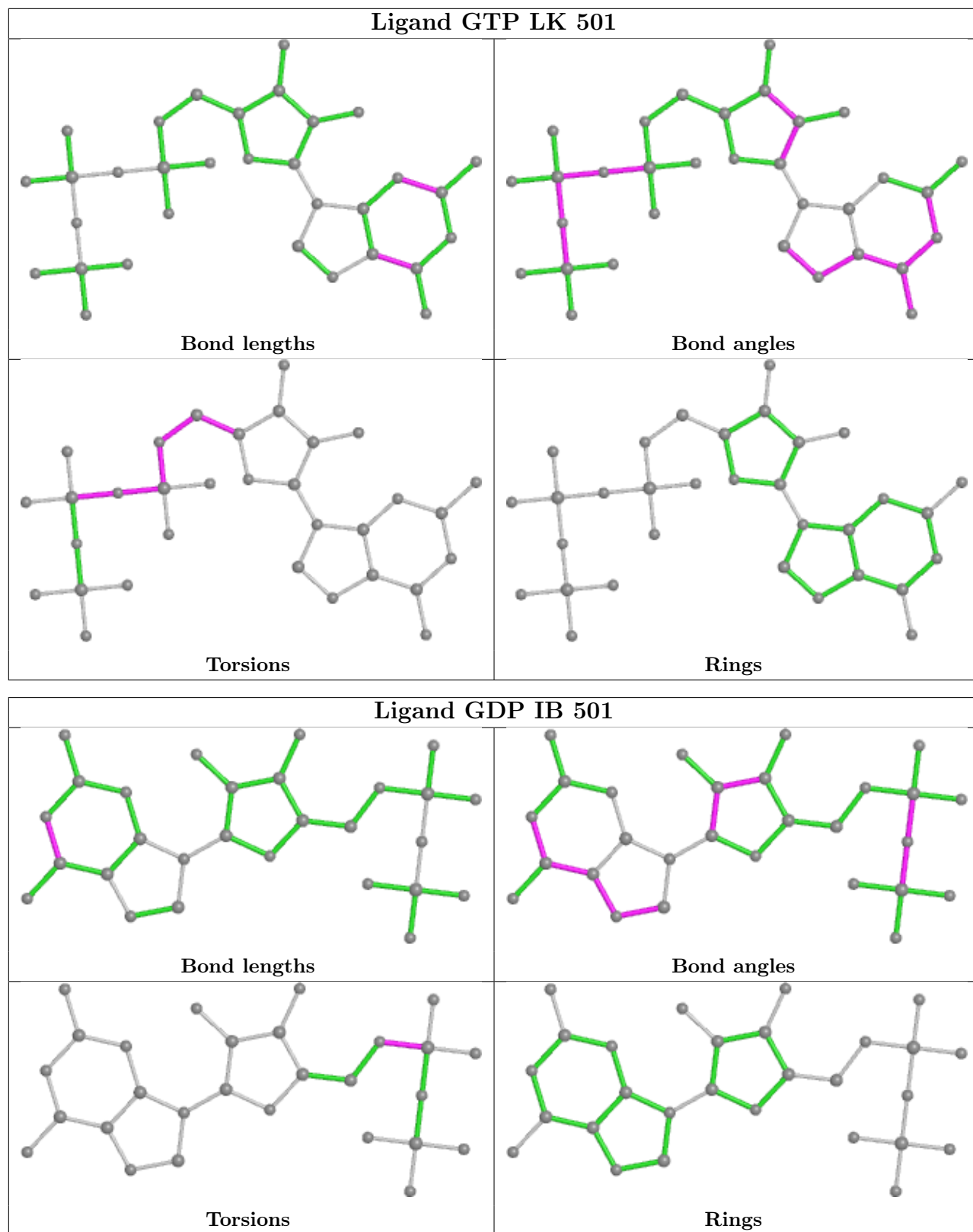


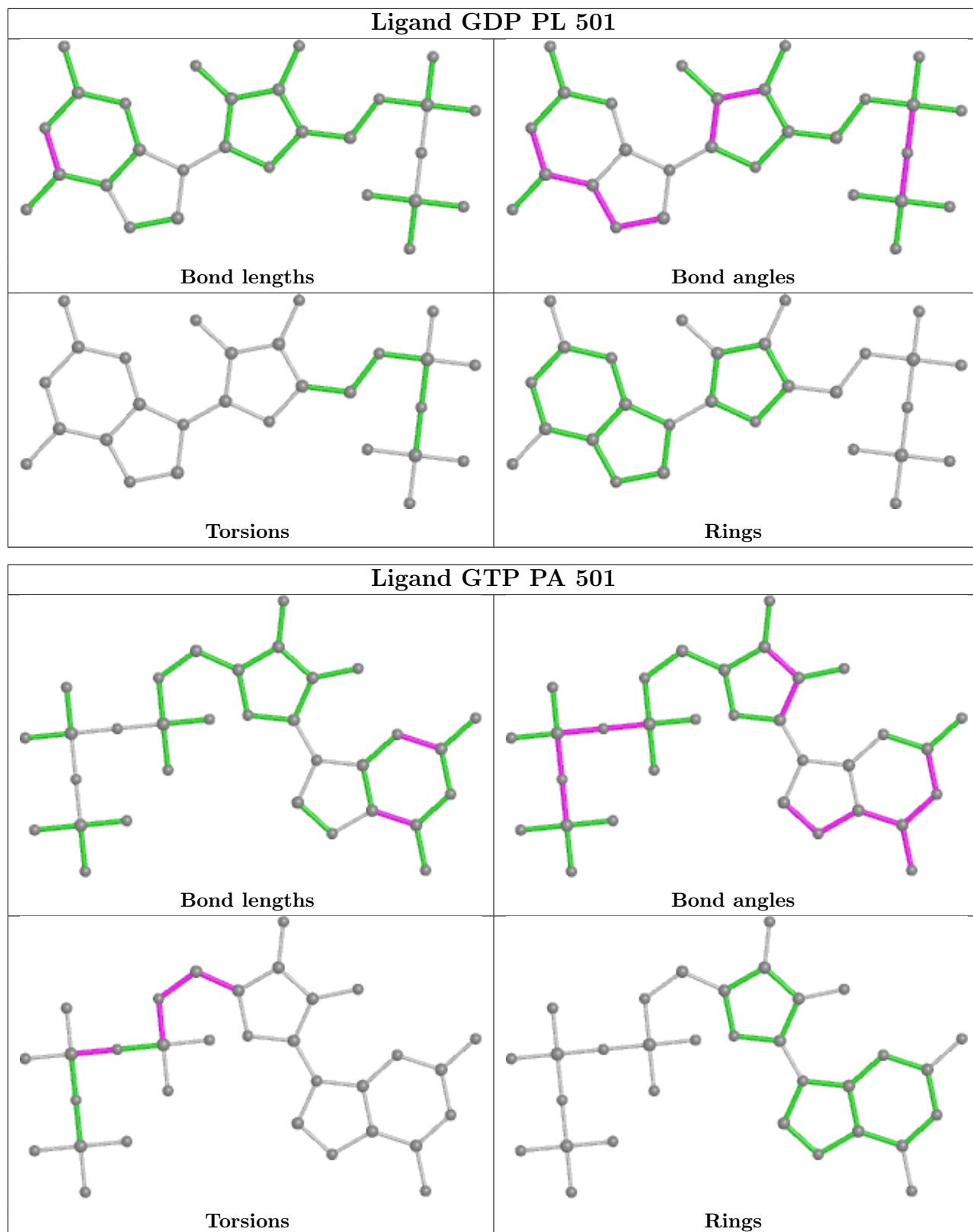


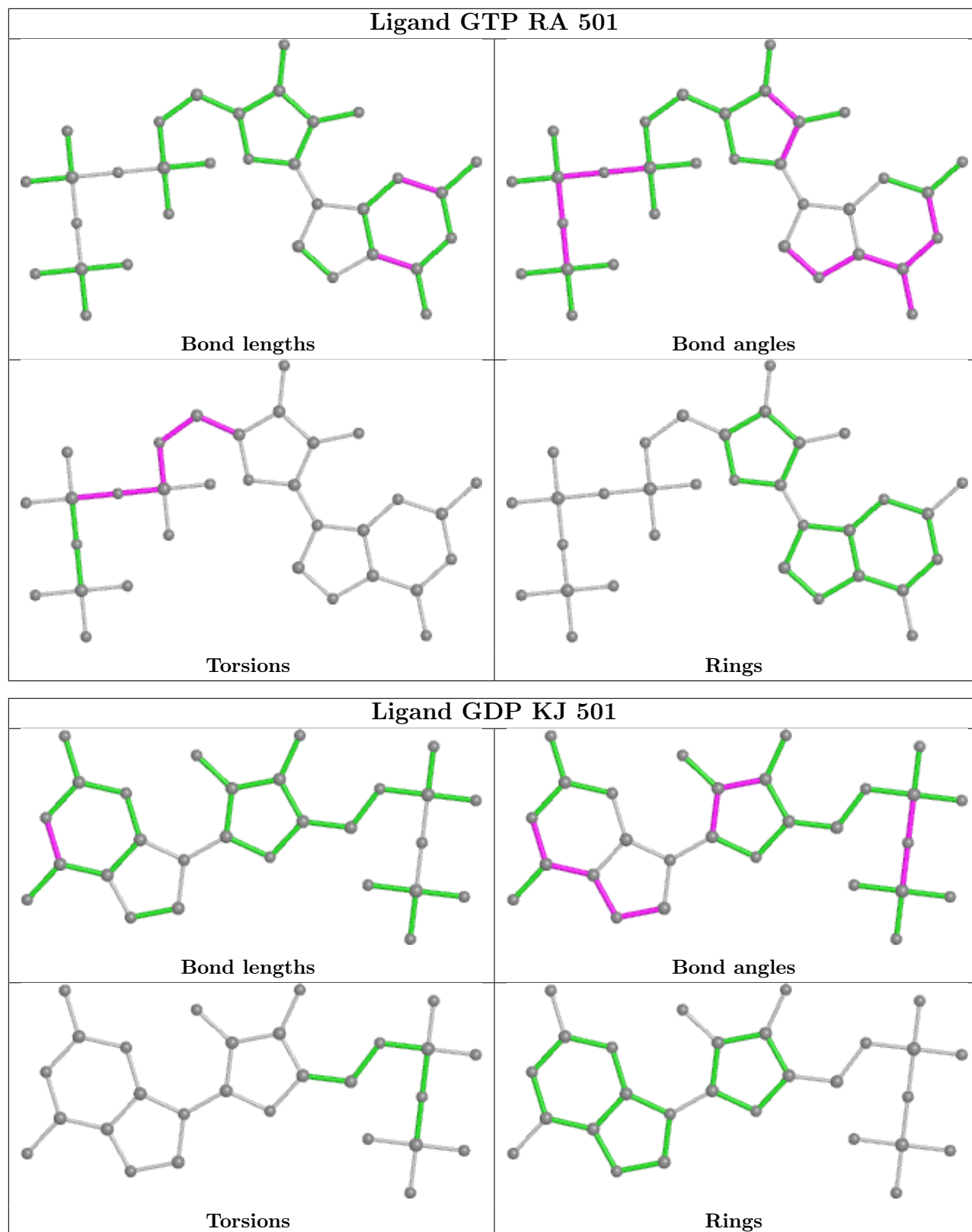


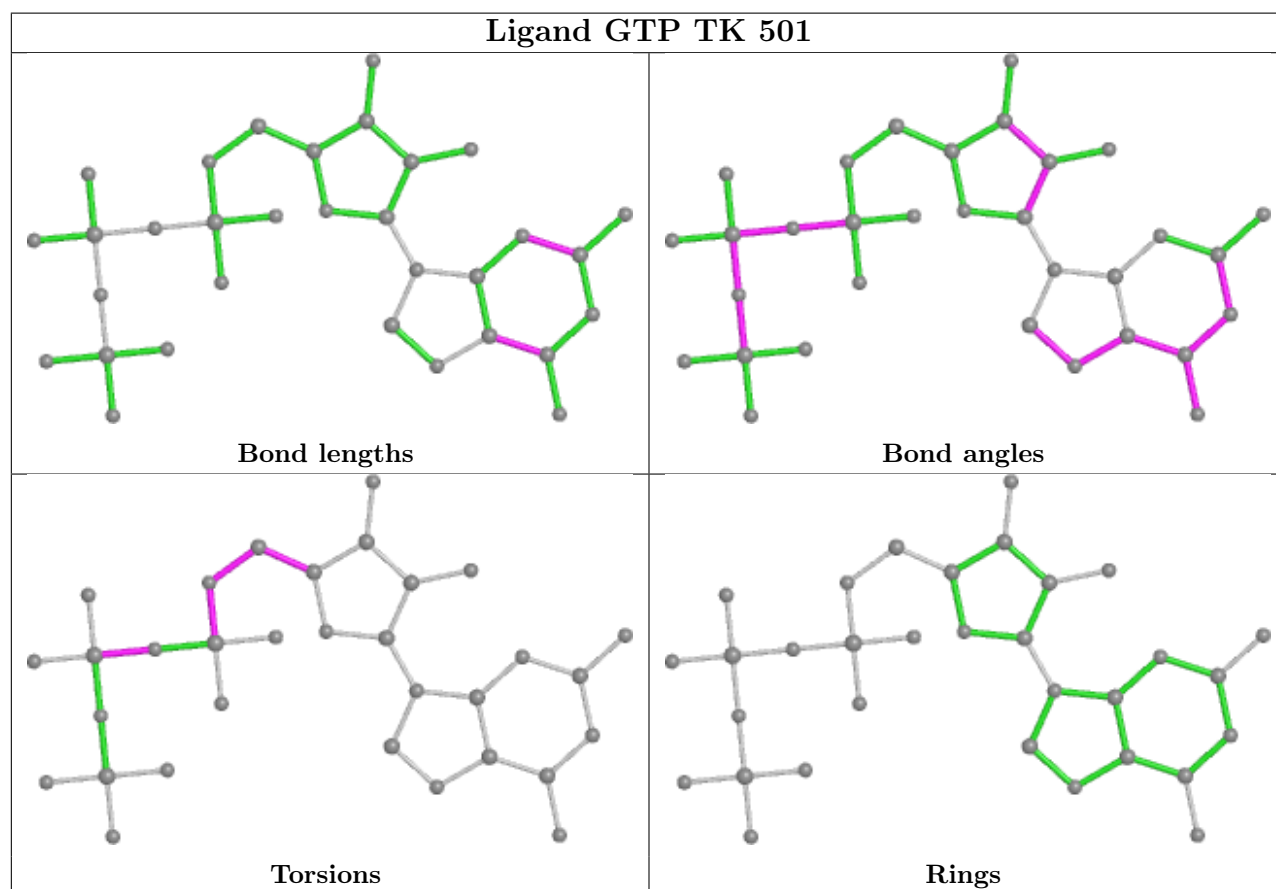
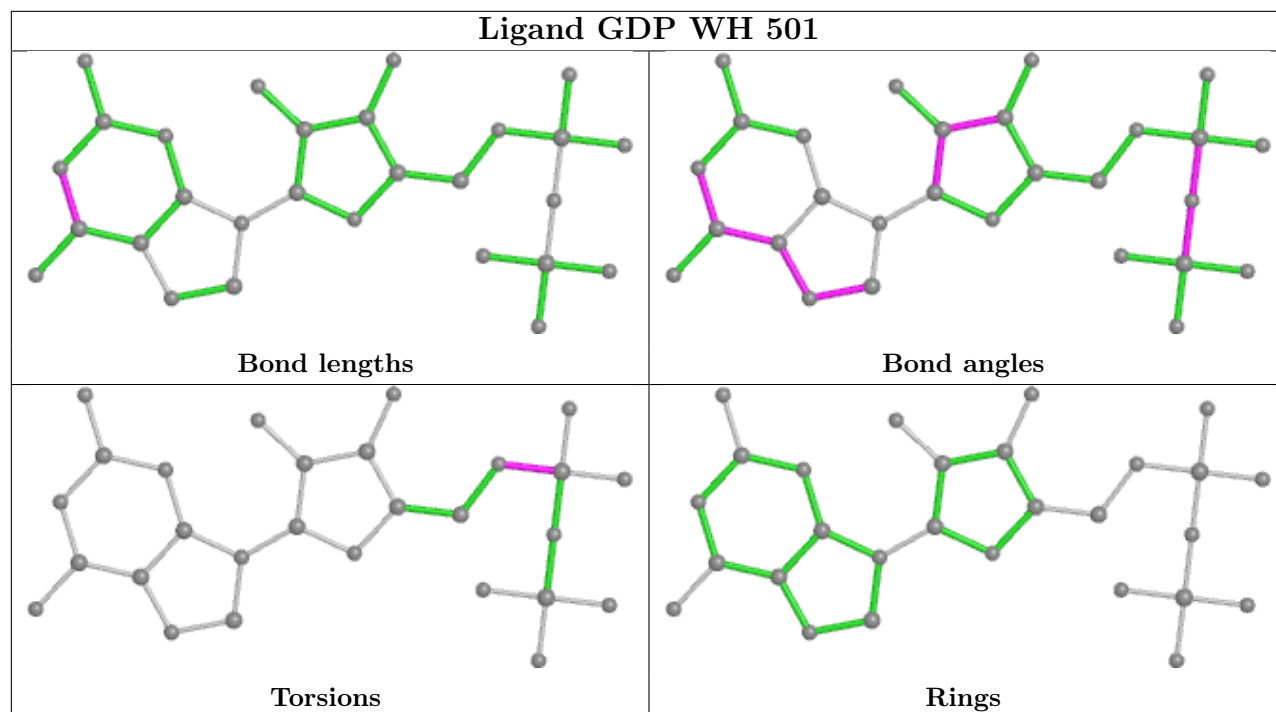




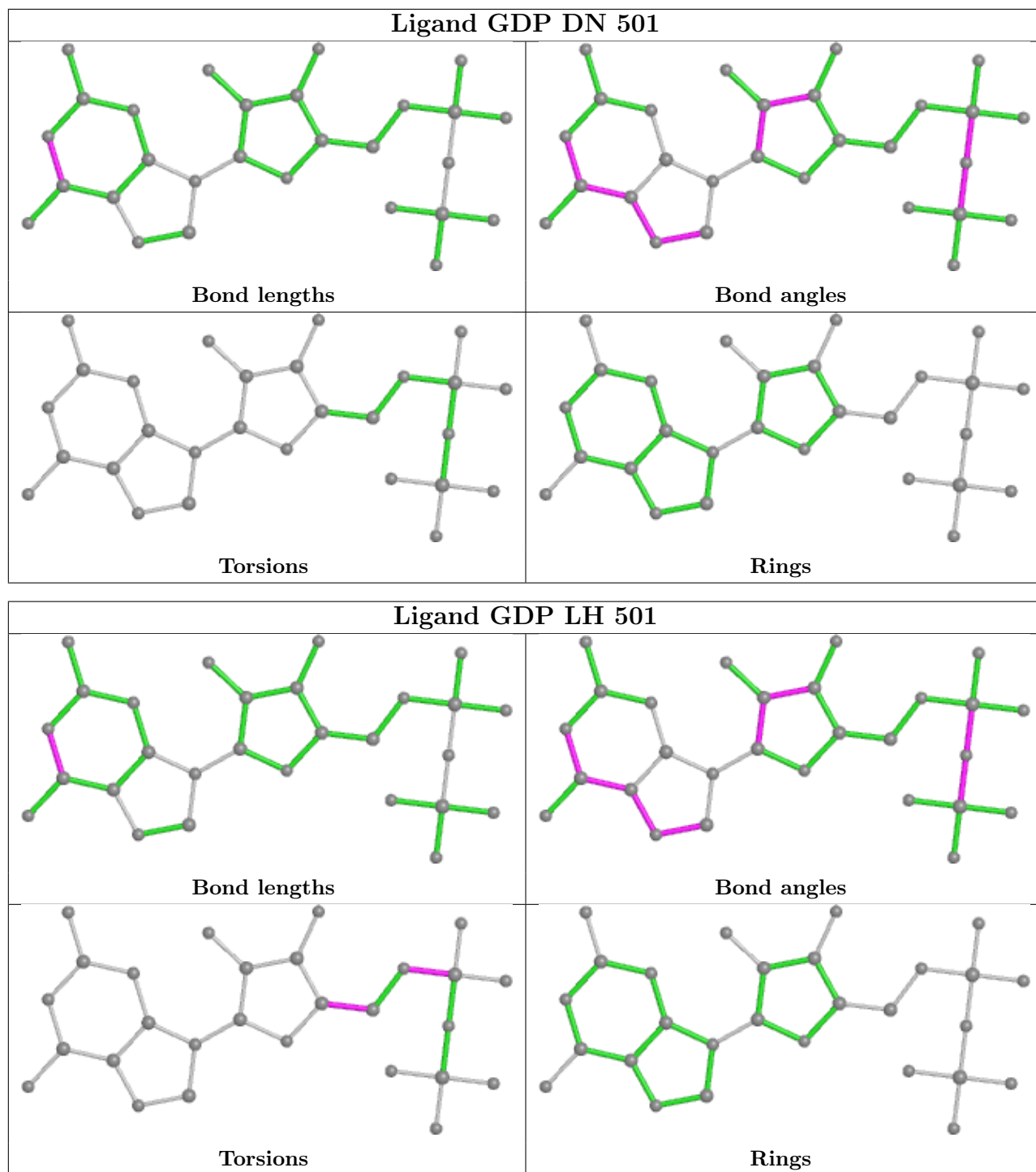


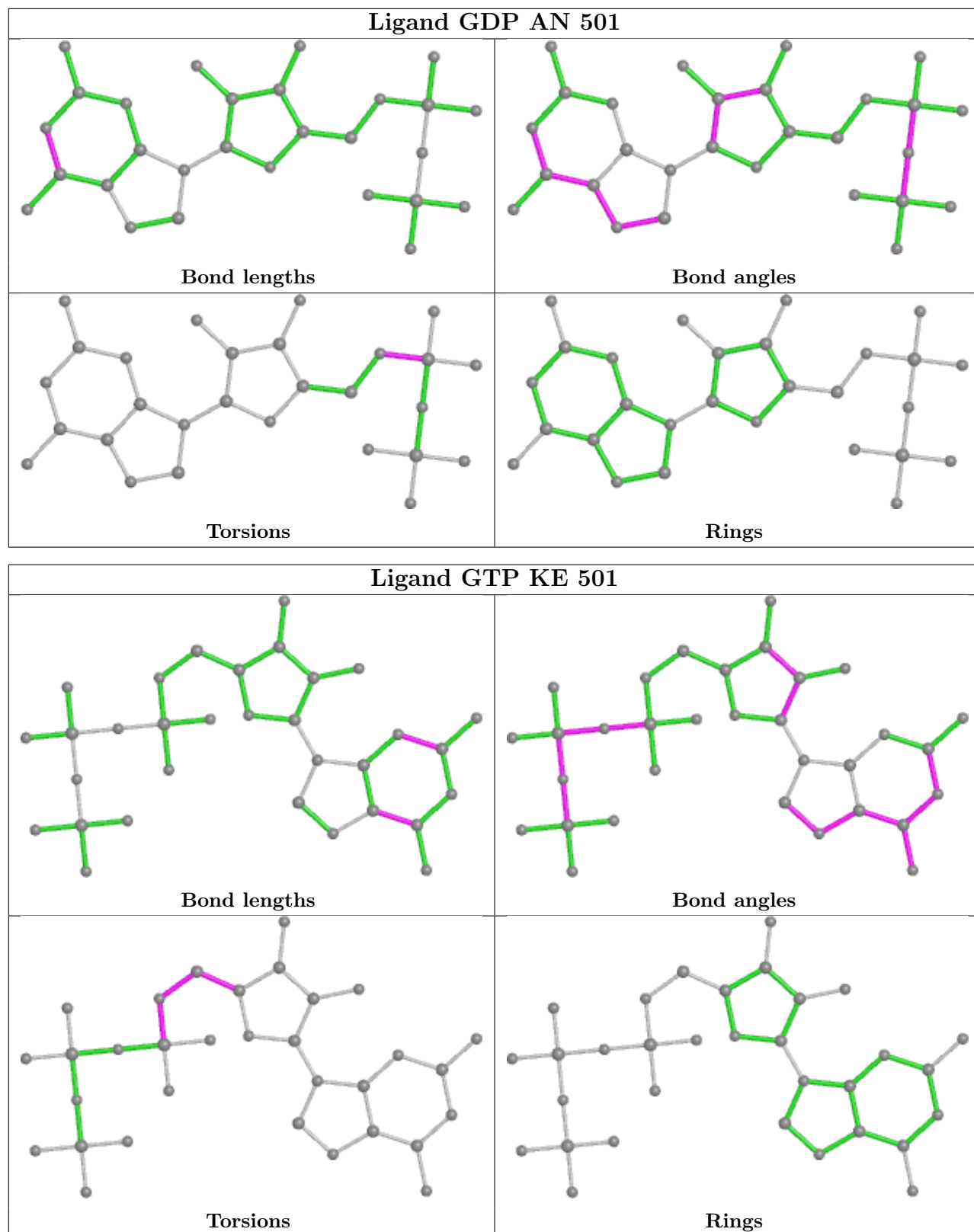


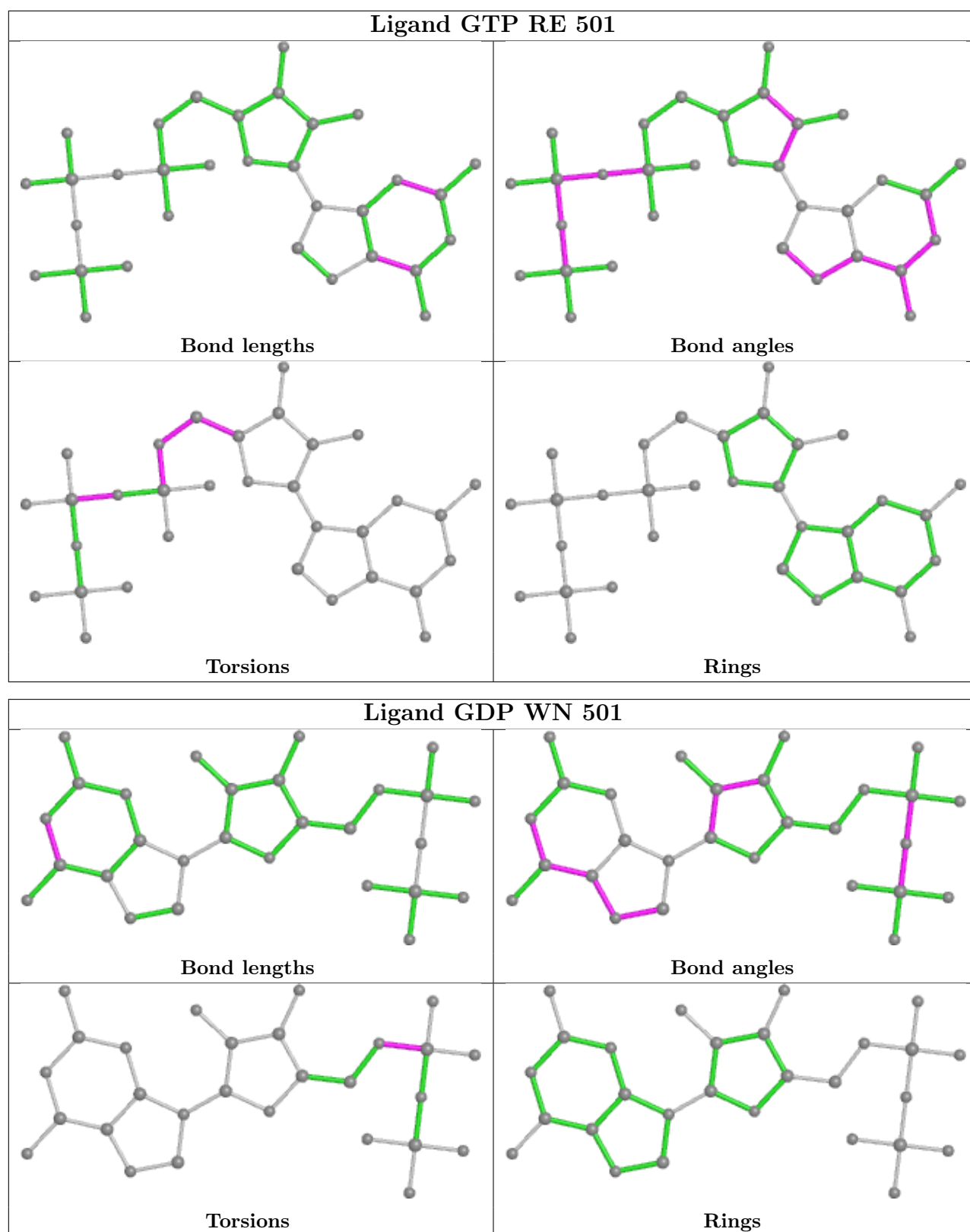


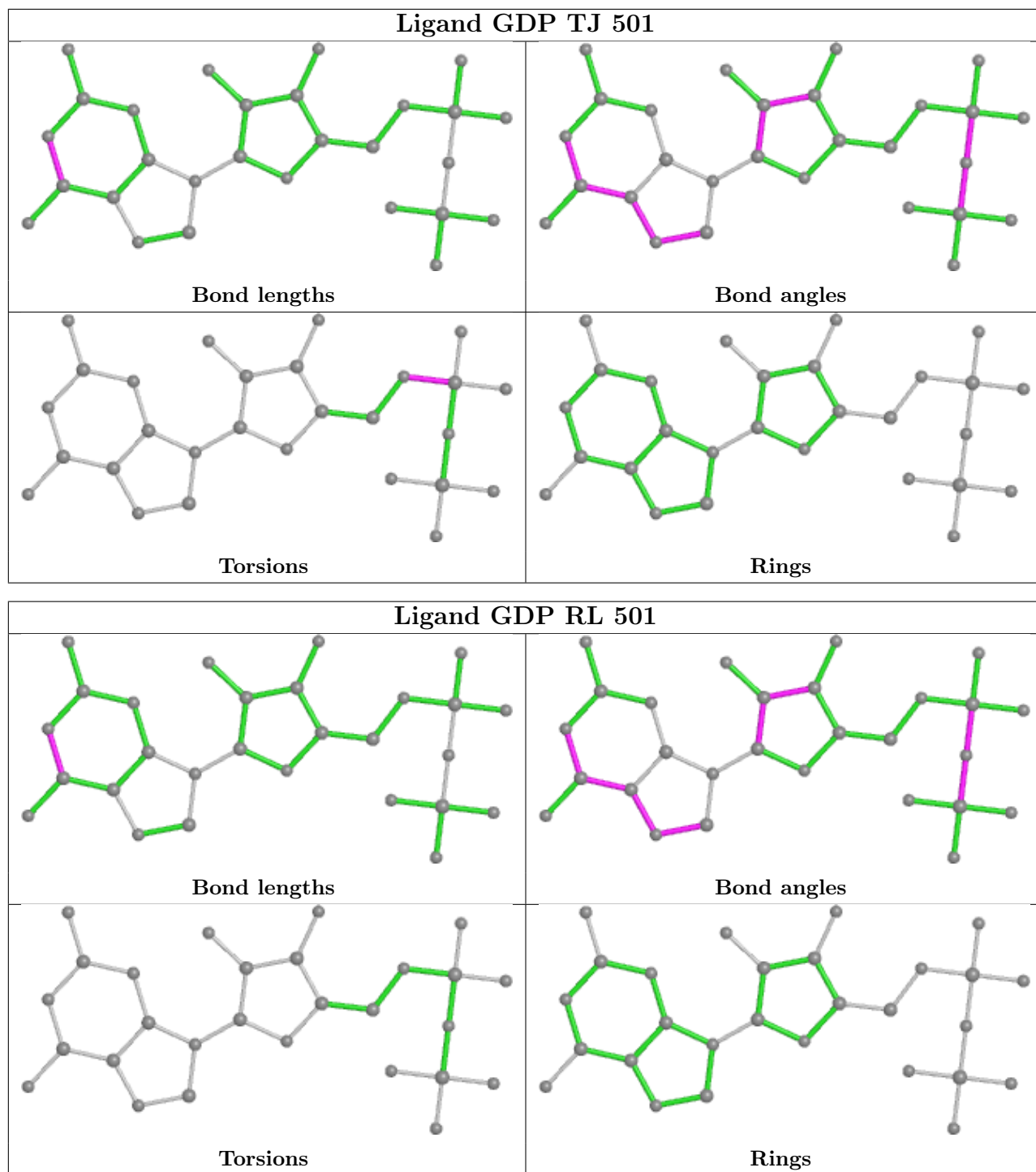


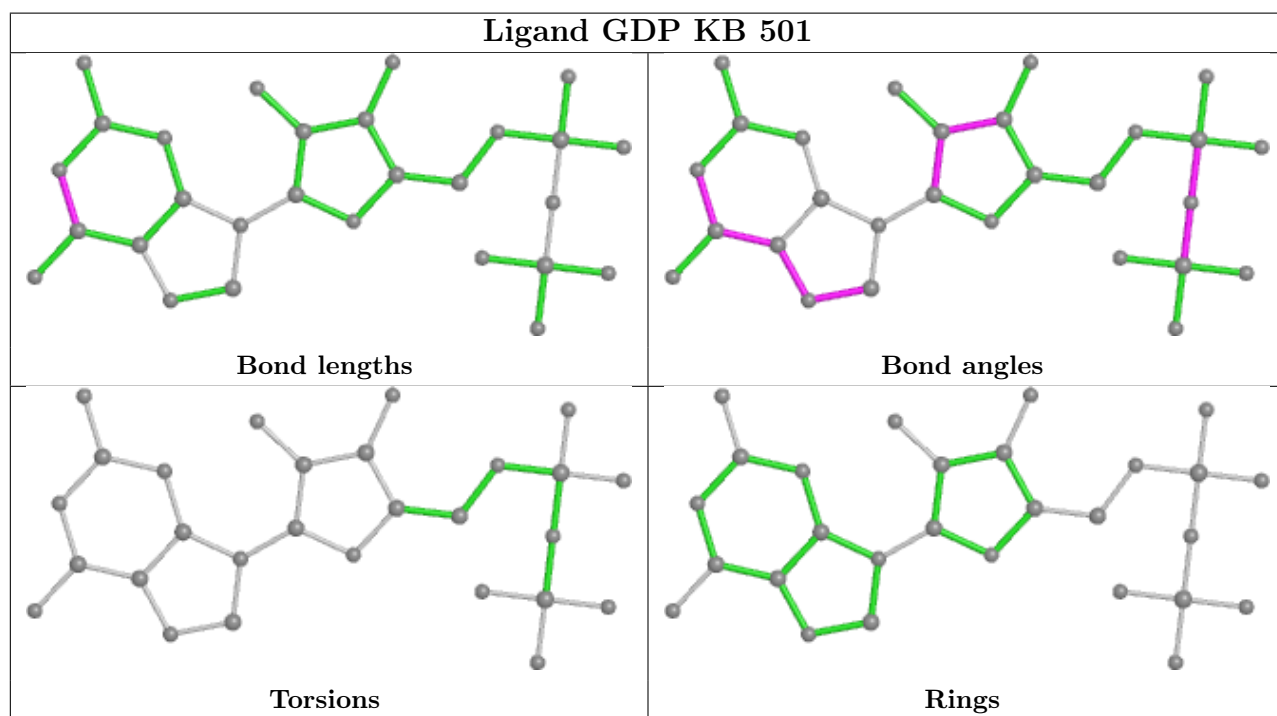
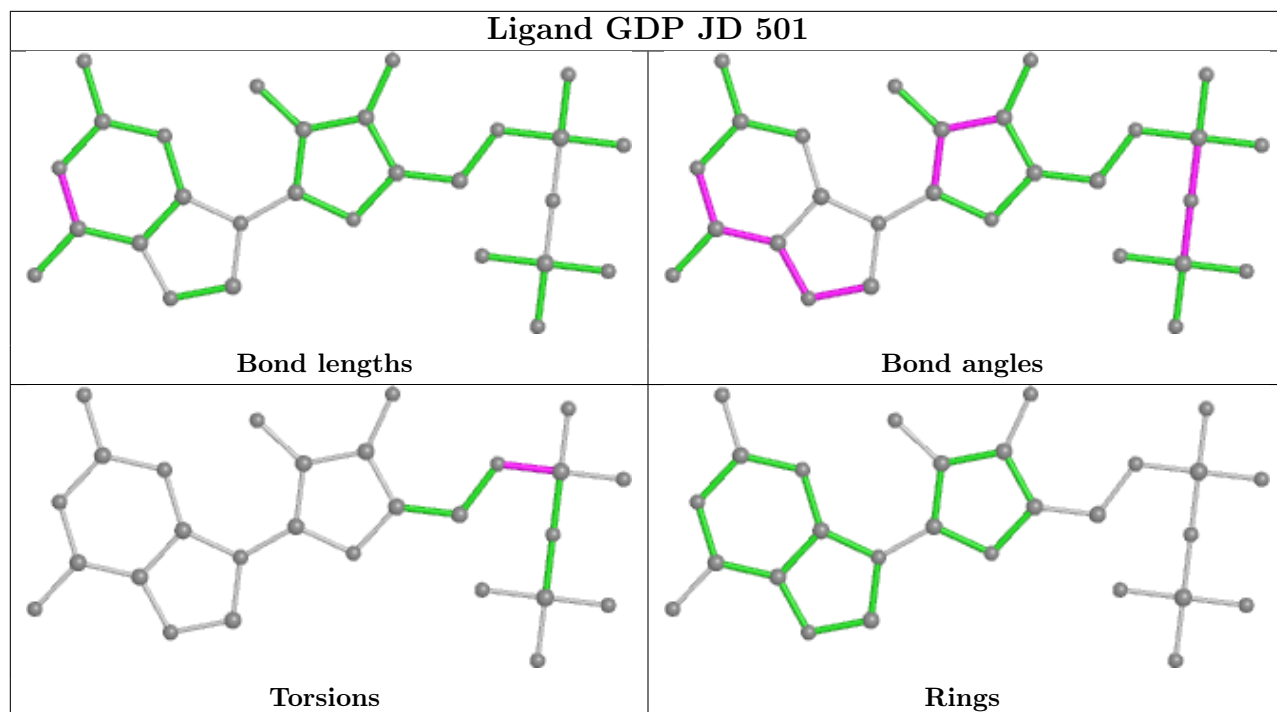


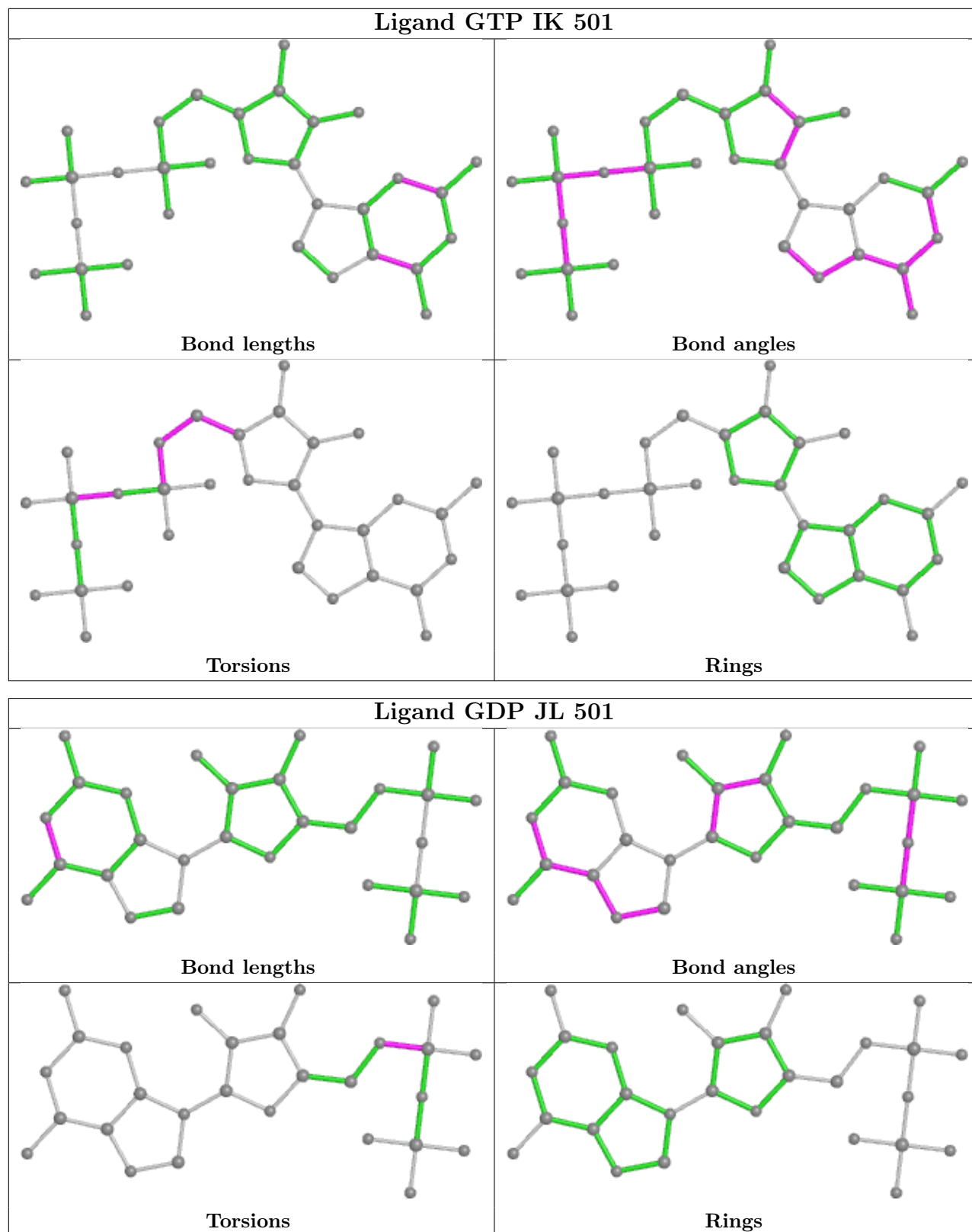


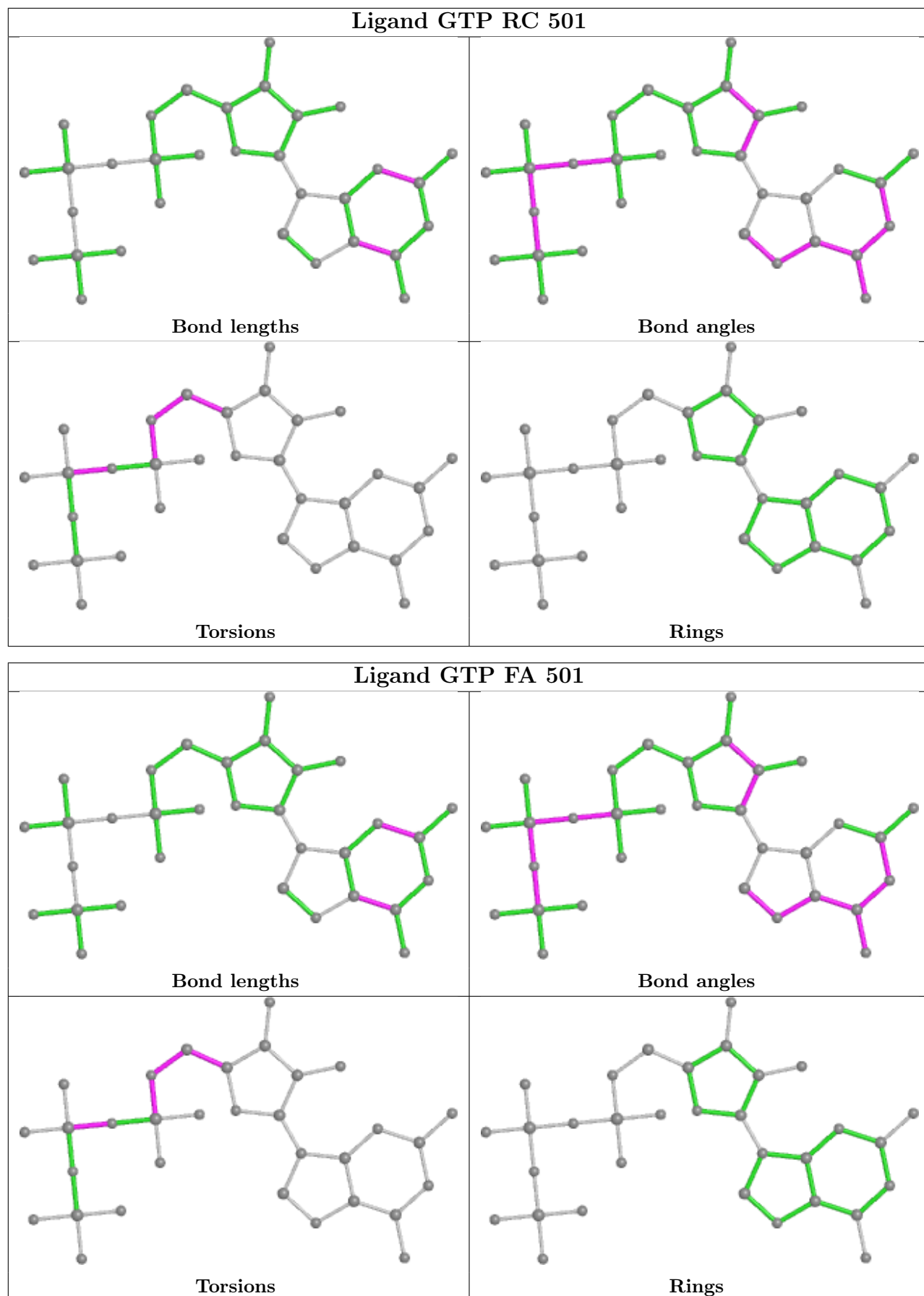


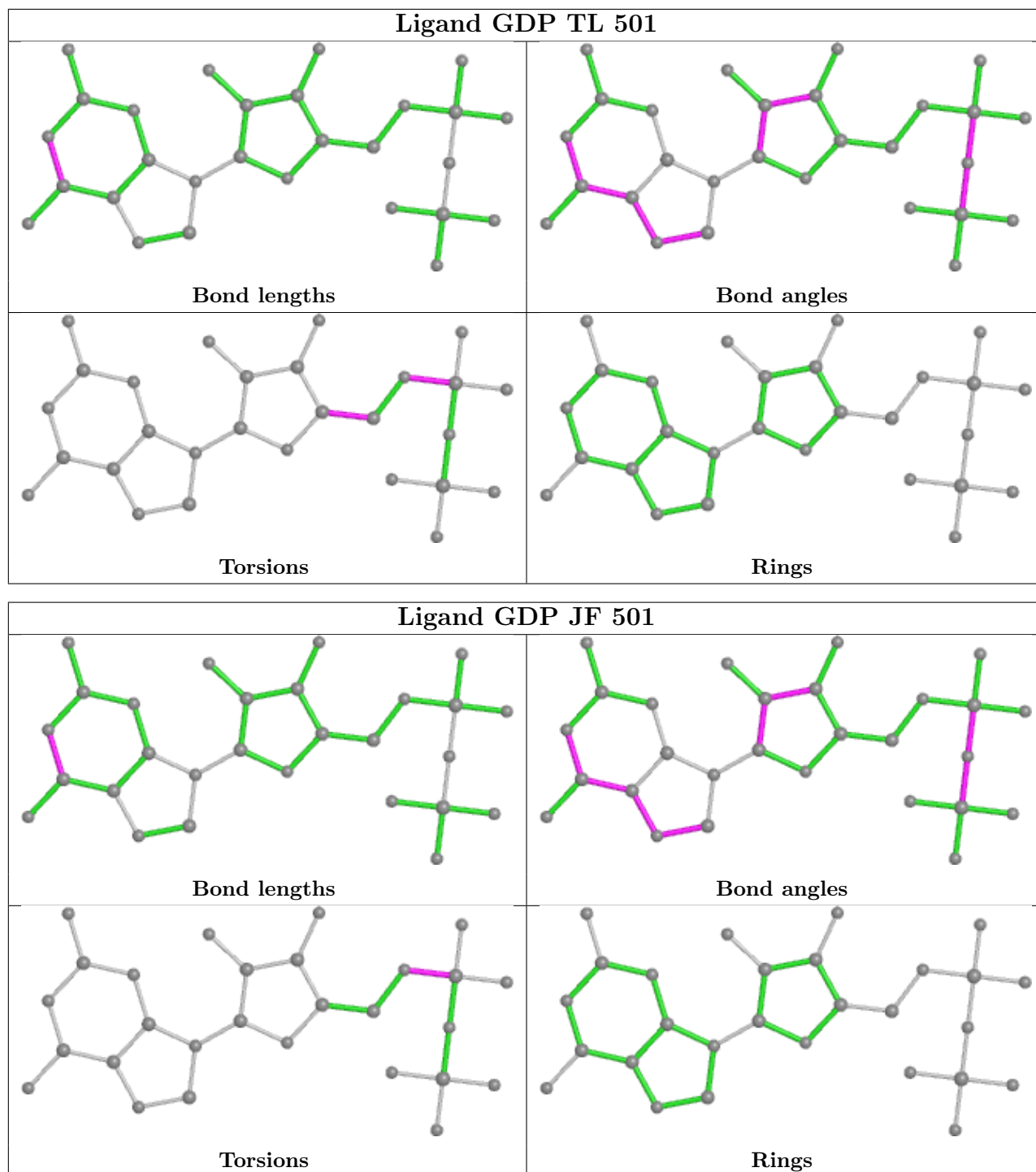




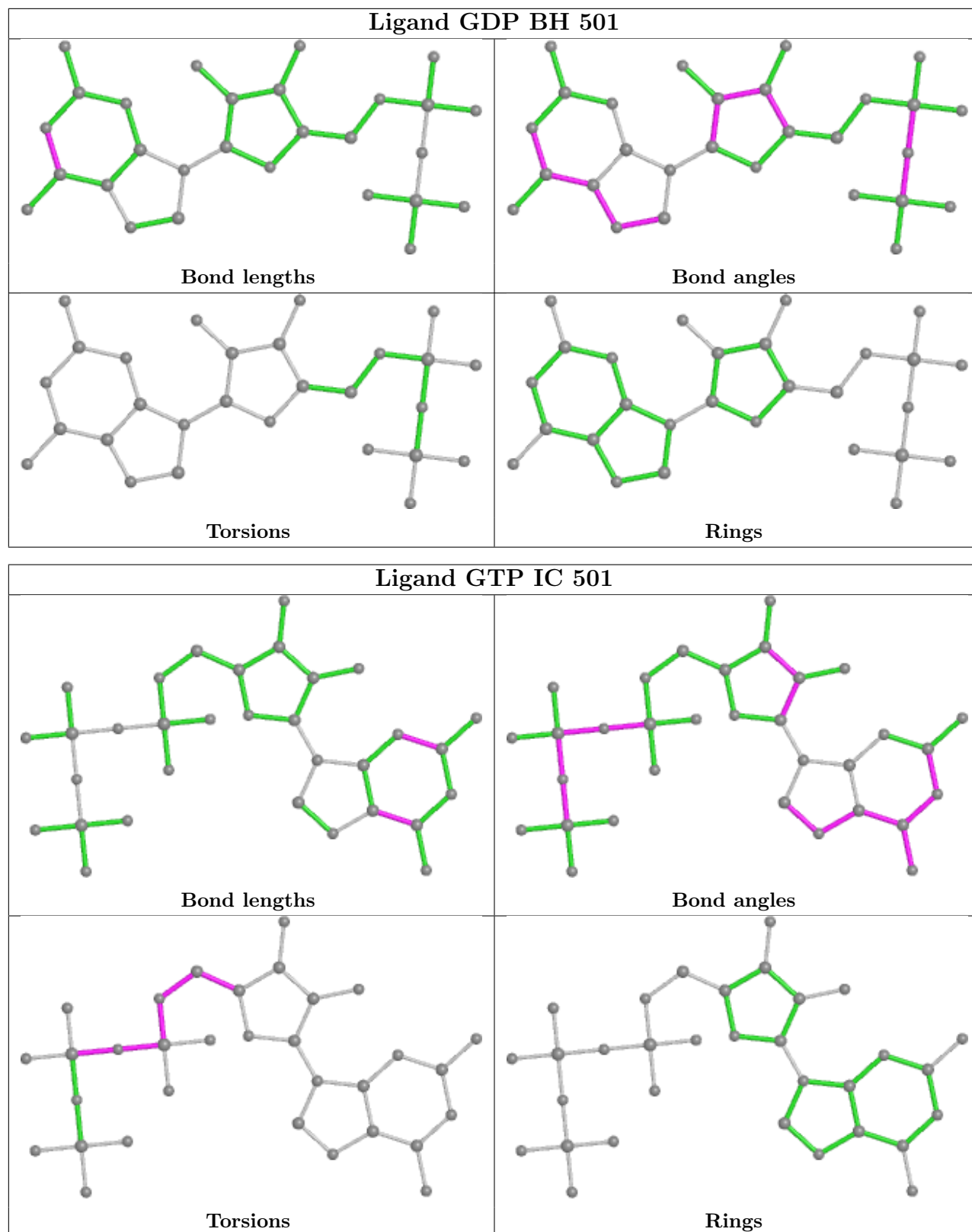


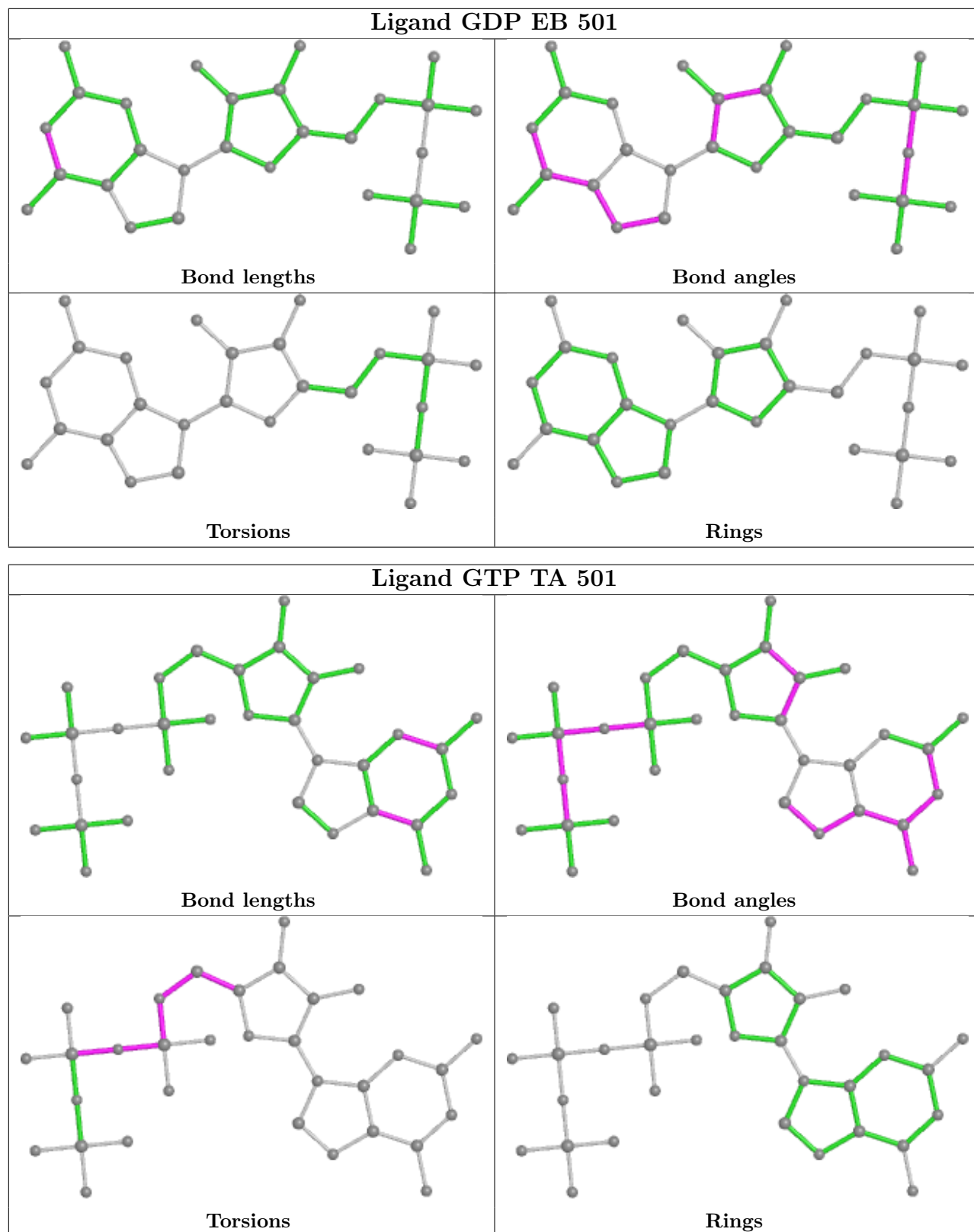


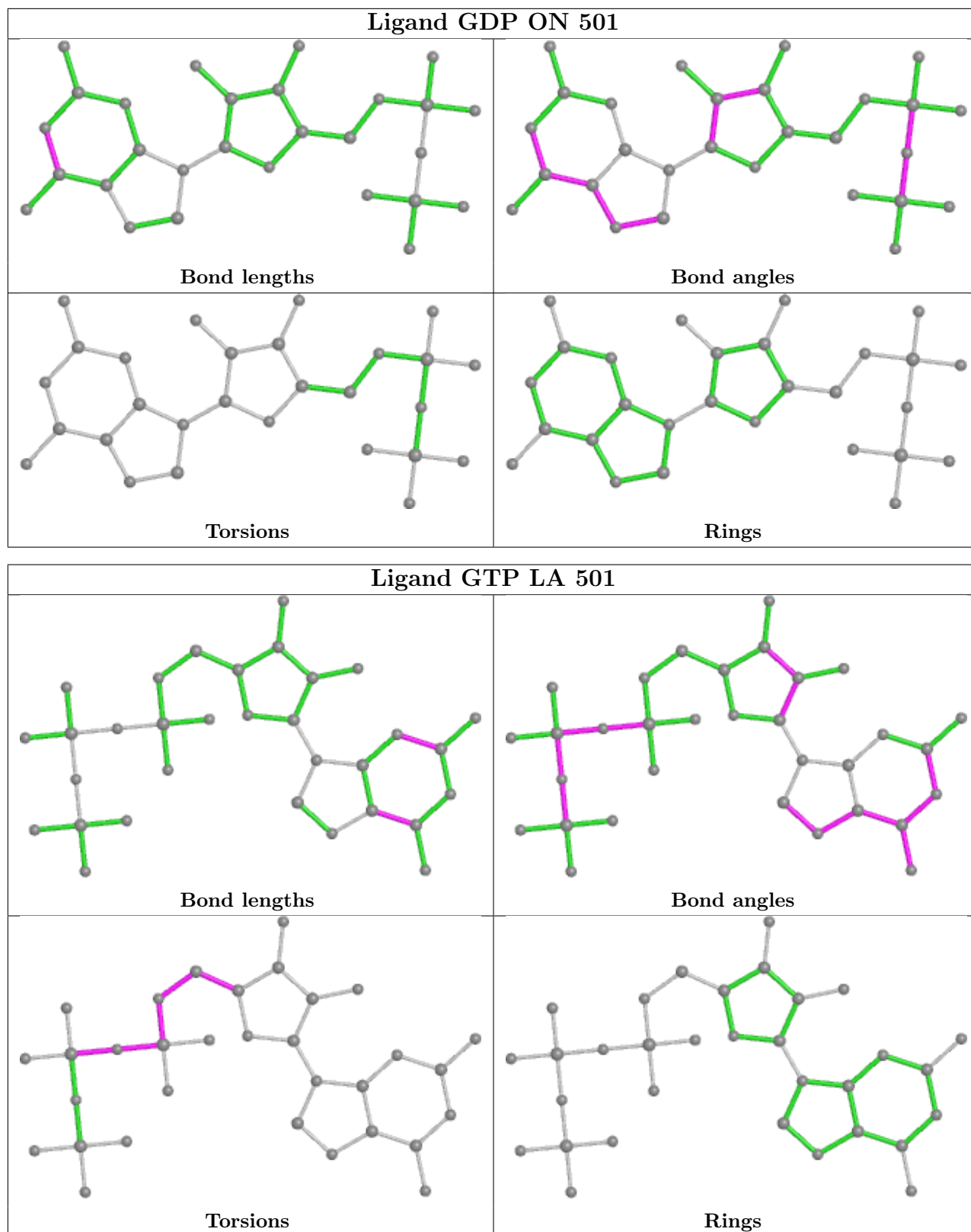


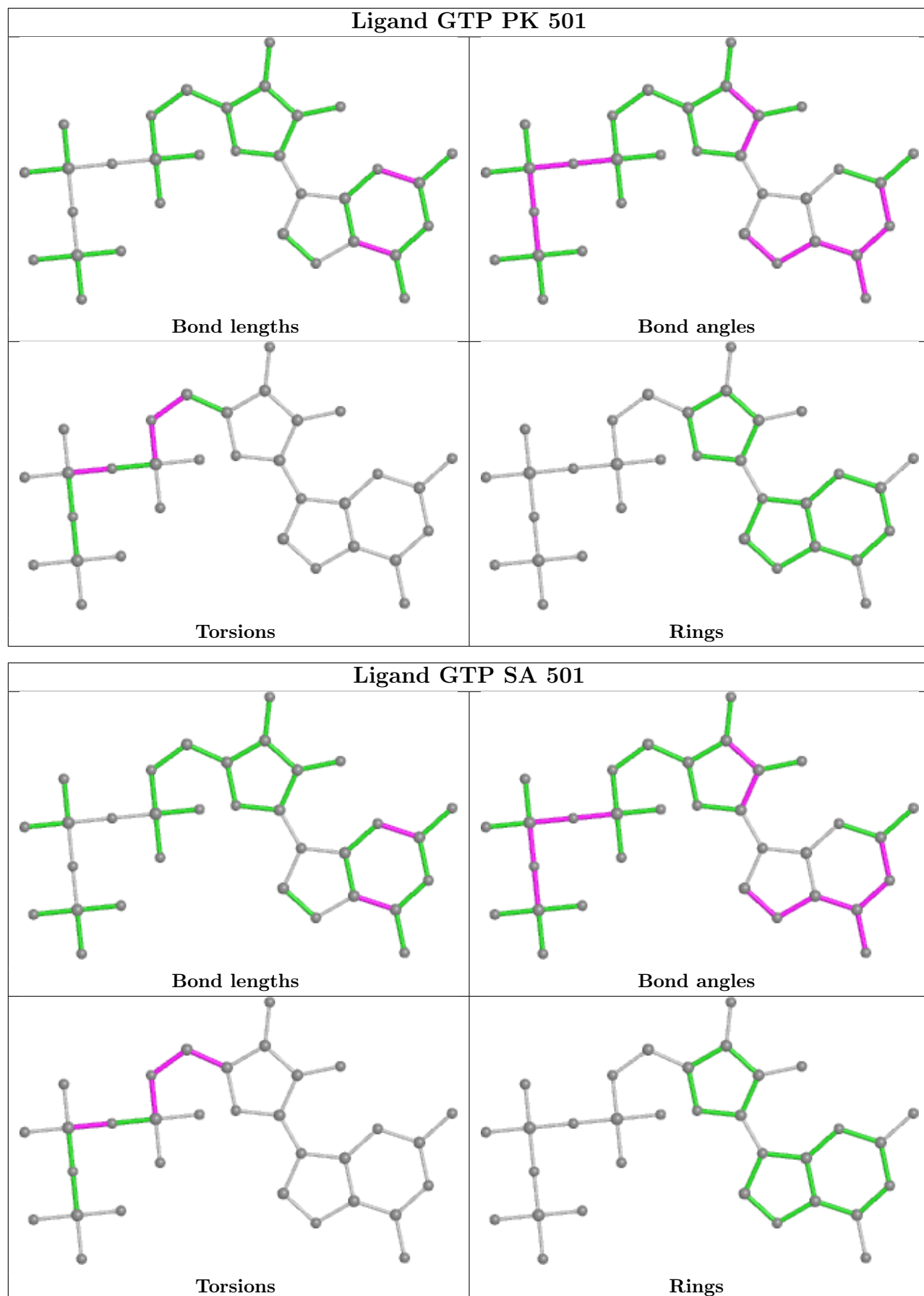


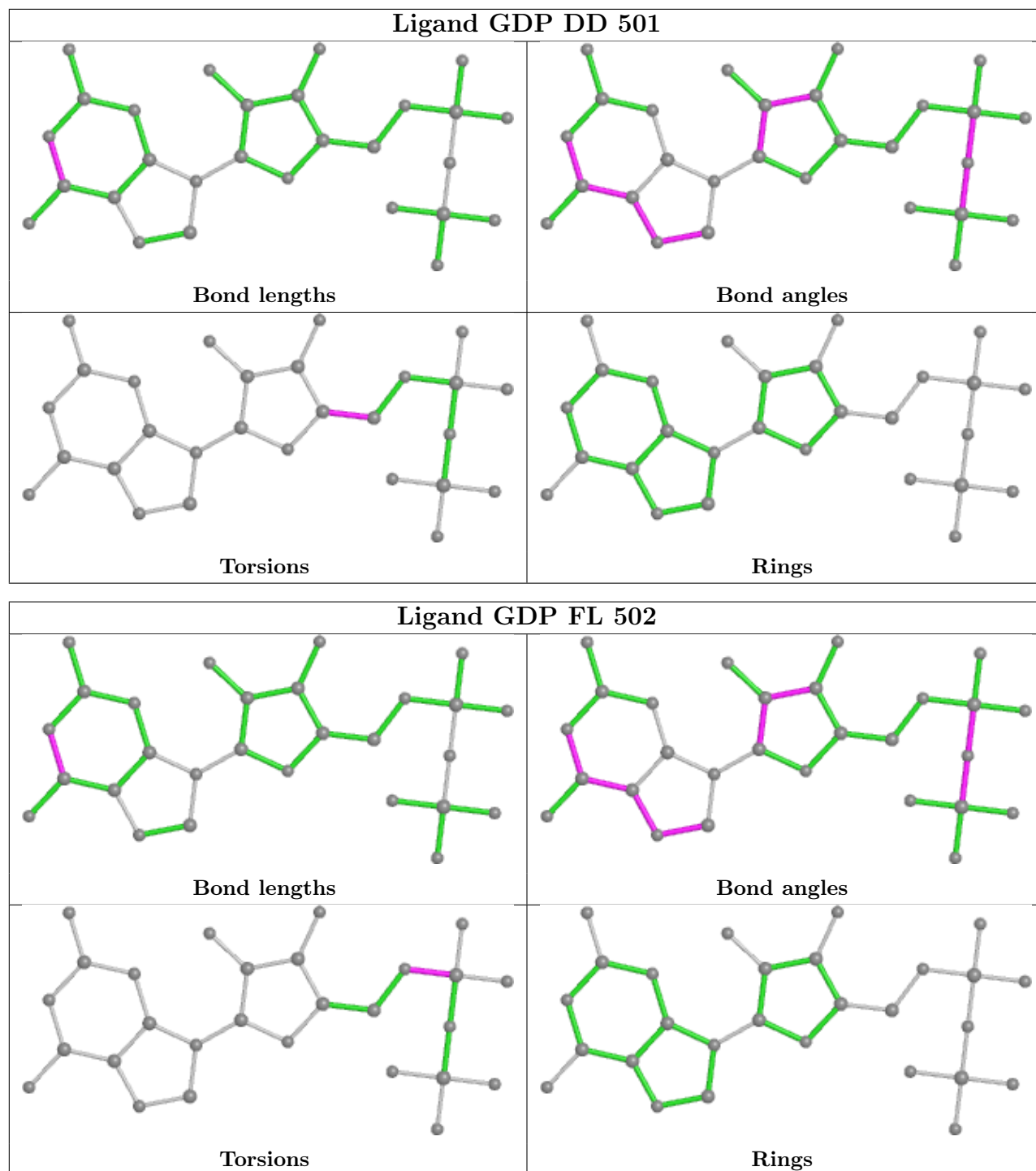


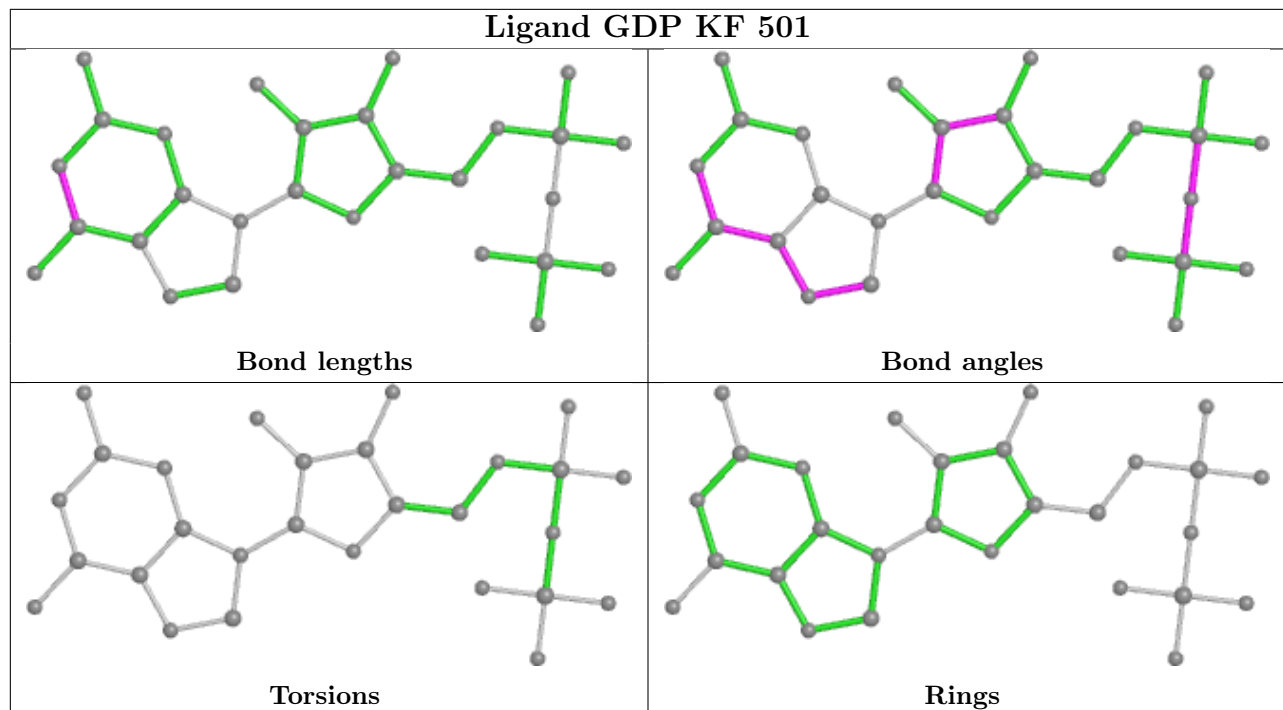












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	2A	1
1	1A	1
1	0A	1
28	2F	1
1	3A	1
12	0T	1
23	2O	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2A	110:PRO	C	111:SER	N	6.11
1	1A	110:PRO	C	111:SER	N	6.07
1	0A	110:PRO	C	111:SER	N	6.00
1	2F	68:THR	C	69:MET	N	5.77
1	3A	110:PRO	C	111:SER	N	5.47

*Continued on next page...*

*Continued from previous page...*

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	0T	98:LYS	C	102:HIS	N	4.37
1	2O	180:MET	C	181:MET	N	2.68

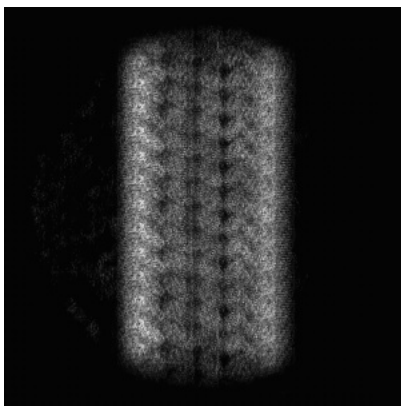
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-29685. These allow visual inspection of the internal detail of the map and identification of artifacts.

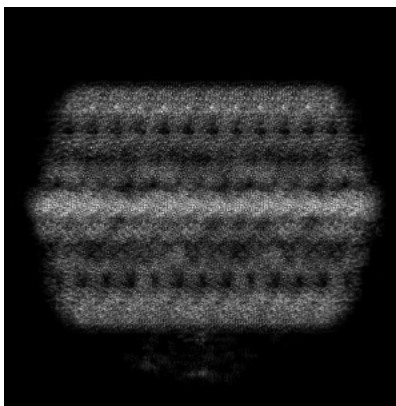
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

### 6.1 Orthogonal projections [i](#)

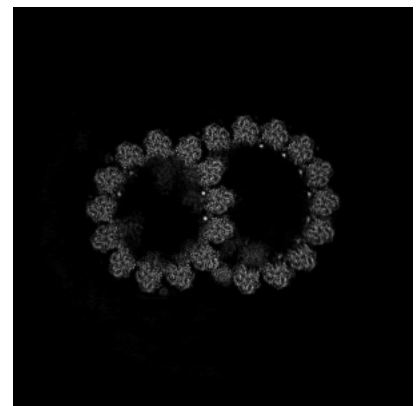
#### 6.1.1 Primary map



X

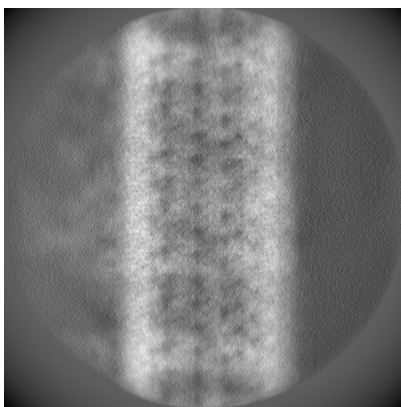


Y

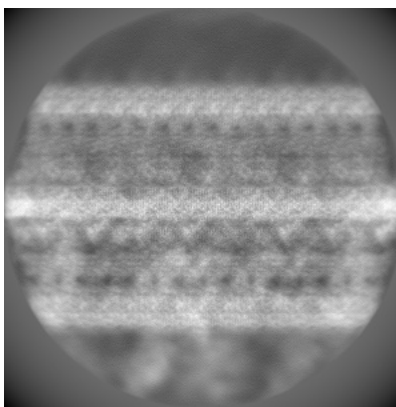


Z

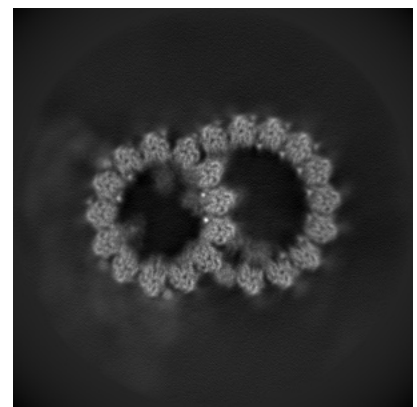
#### 6.1.2 Raw map



X



Y



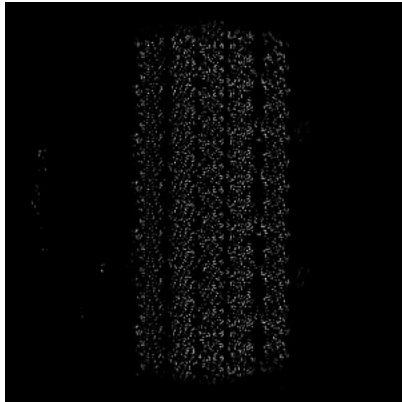
Z

The images above show the map projected in three orthogonal directions.



## 6.2 Central slices [i](#)

### 6.2.1 Primary map



X Index: 256

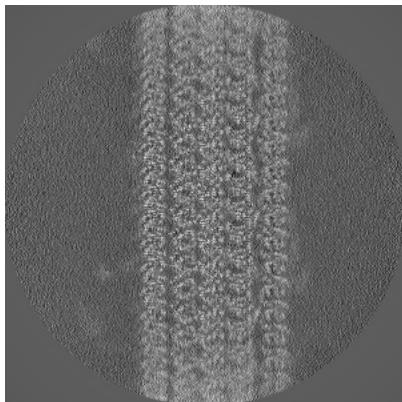


Y Index: 256

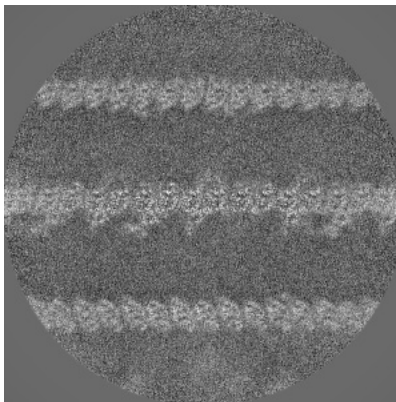


Z Index: 256

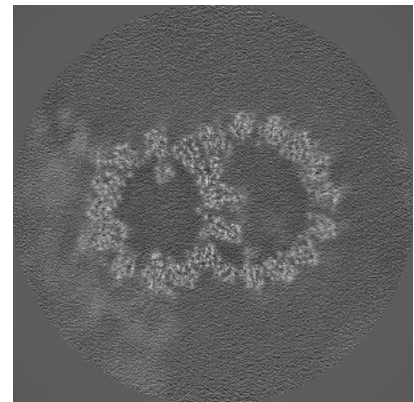
### 6.2.2 Raw map



X Index: 256



Y Index: 256

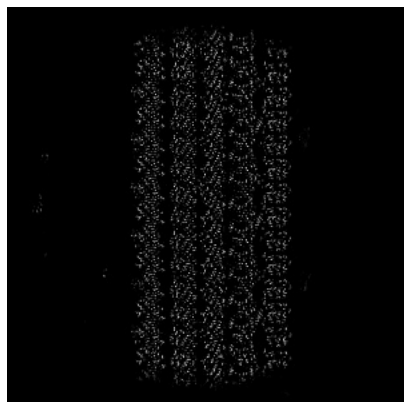


Z Index: 256

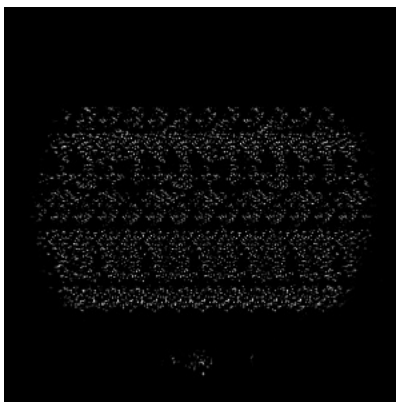
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

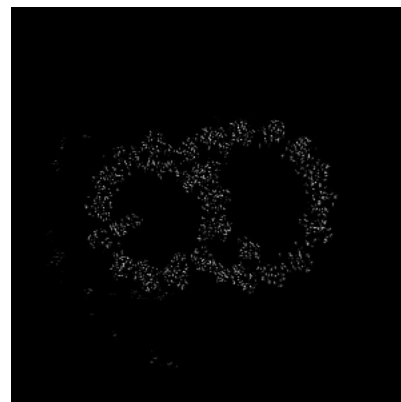
### 6.3.1 Primary map



X Index: 258

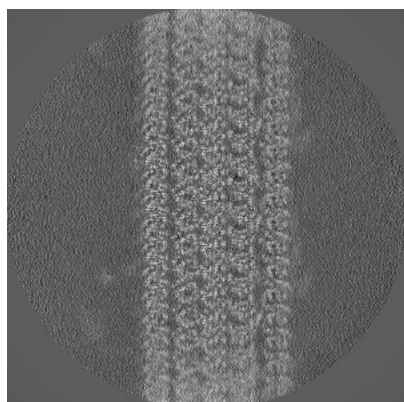


Y Index: 176

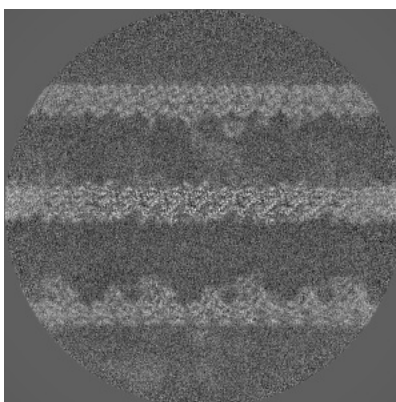


Z Index: 200

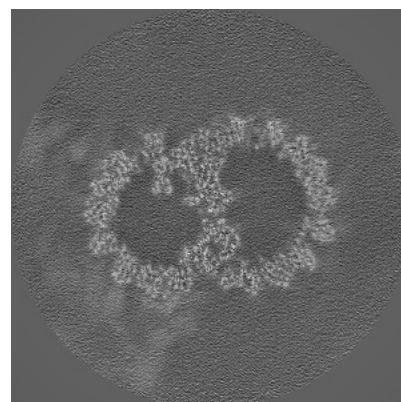
### 6.3.2 Raw map



X Index: 256



Y Index: 223

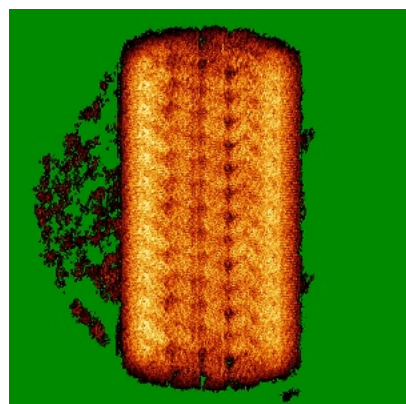


Z Index: 229

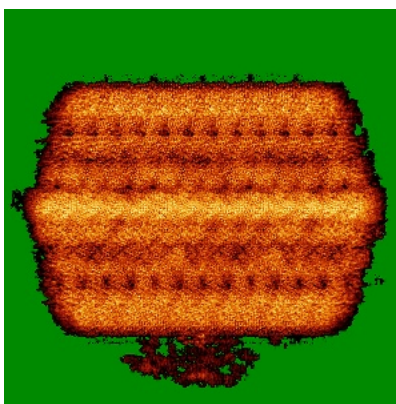
The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal standard-deviation projections (False-color) [i](#)

### 6.4.1 Primary map



X

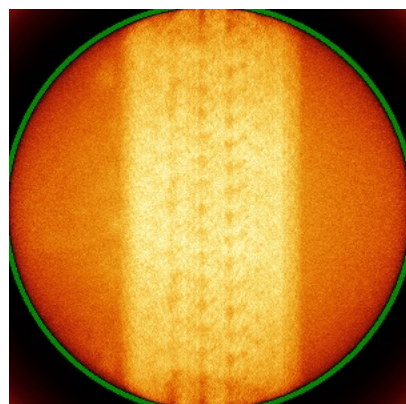


Y

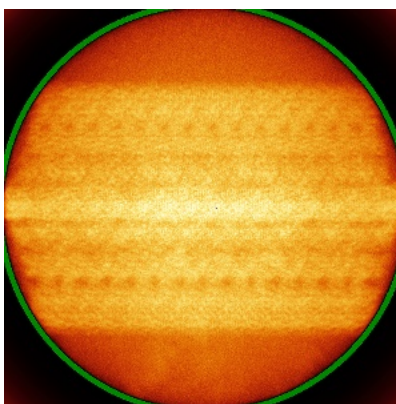


Z

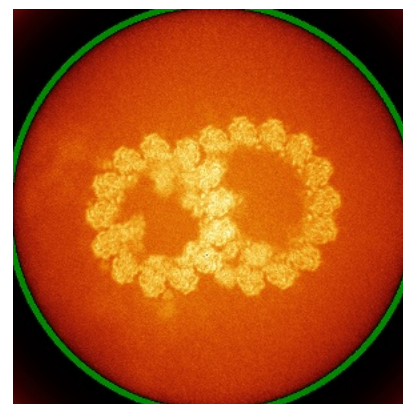
### 6.4.2 Raw map



X



Y

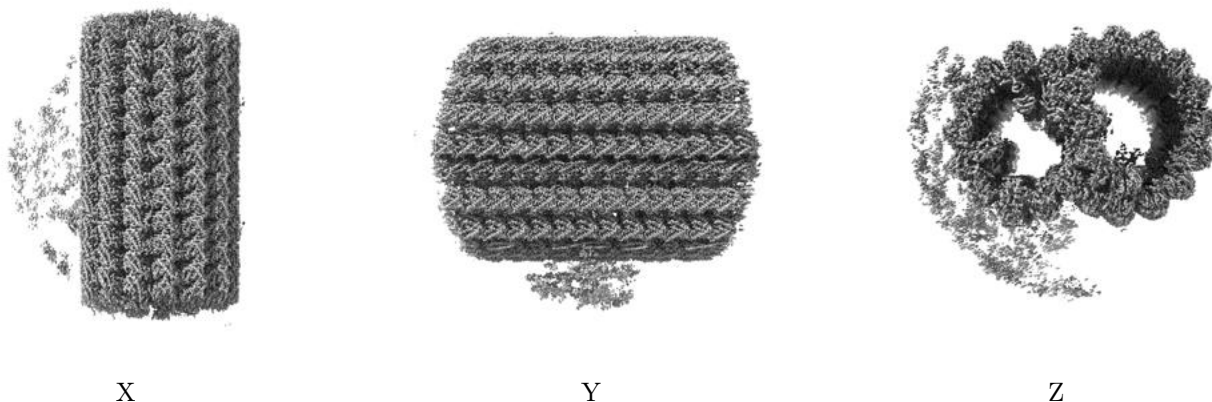


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

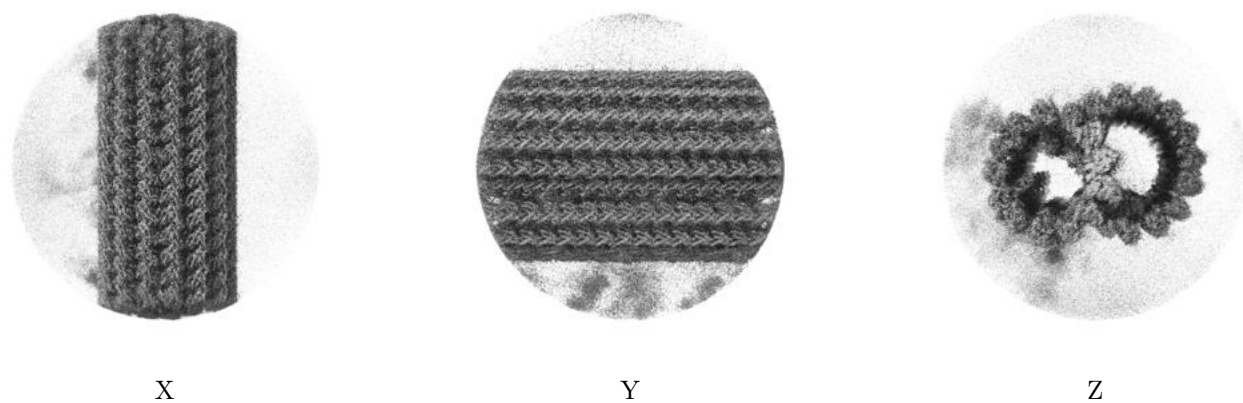
## 6.5 Orthogonal surface views [i](#)

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.15. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

### 6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

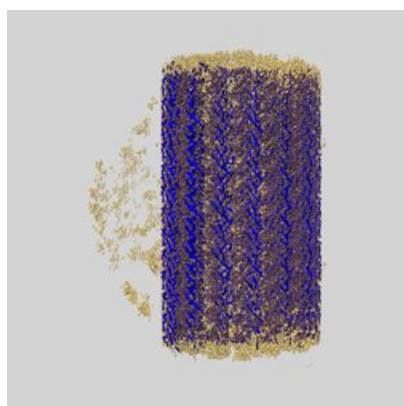
## 6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

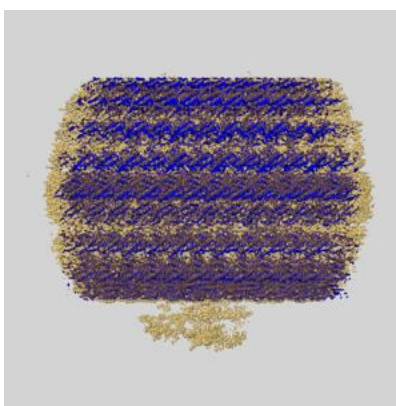
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

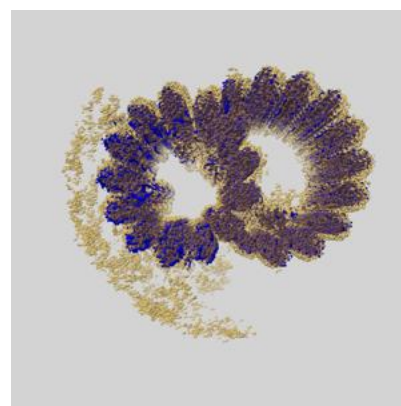
### 6.6.1 emd\_29685\_msk\_1.map [i](#)



X



Y

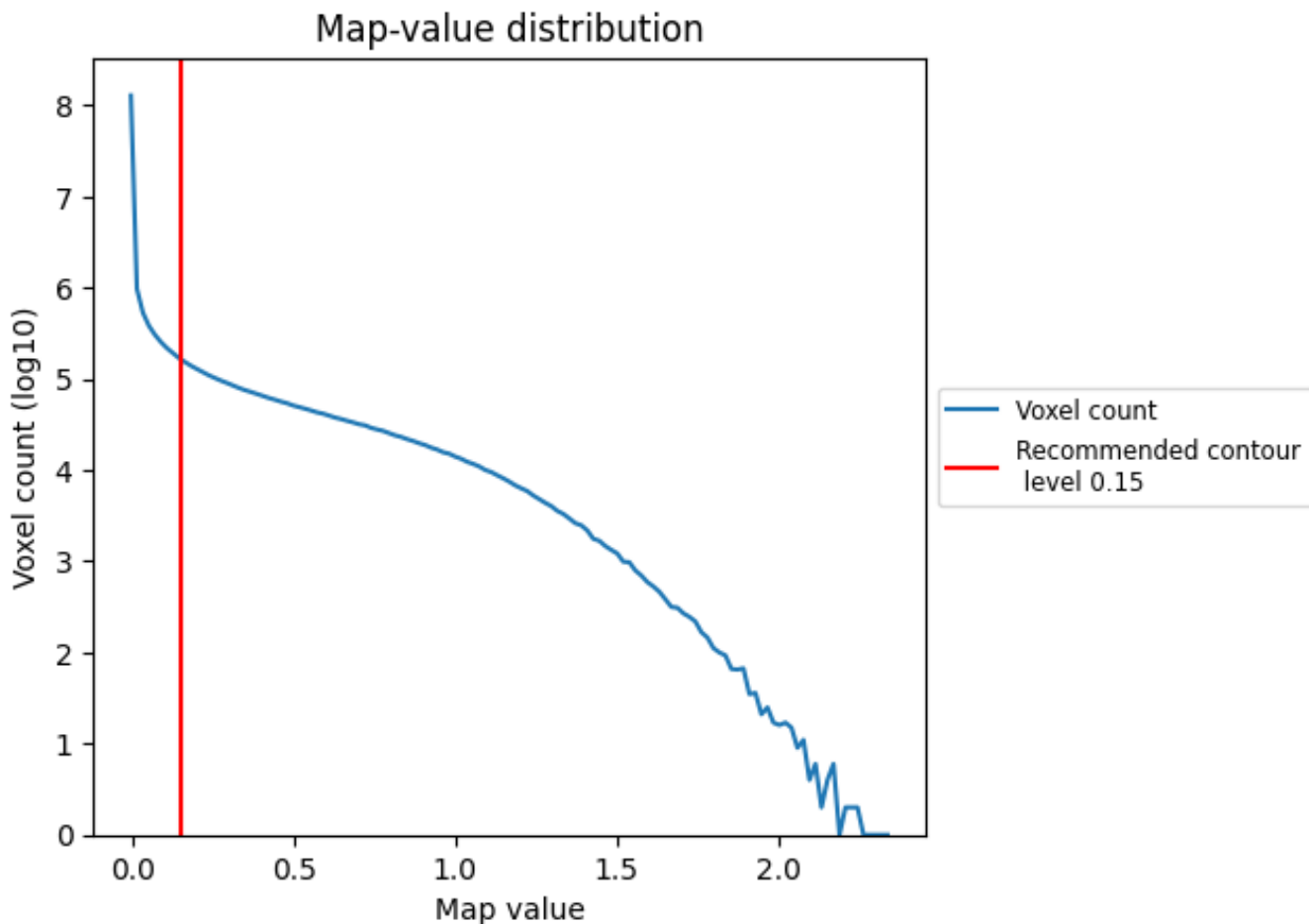


Z

## 7 Map analysis [i](#)

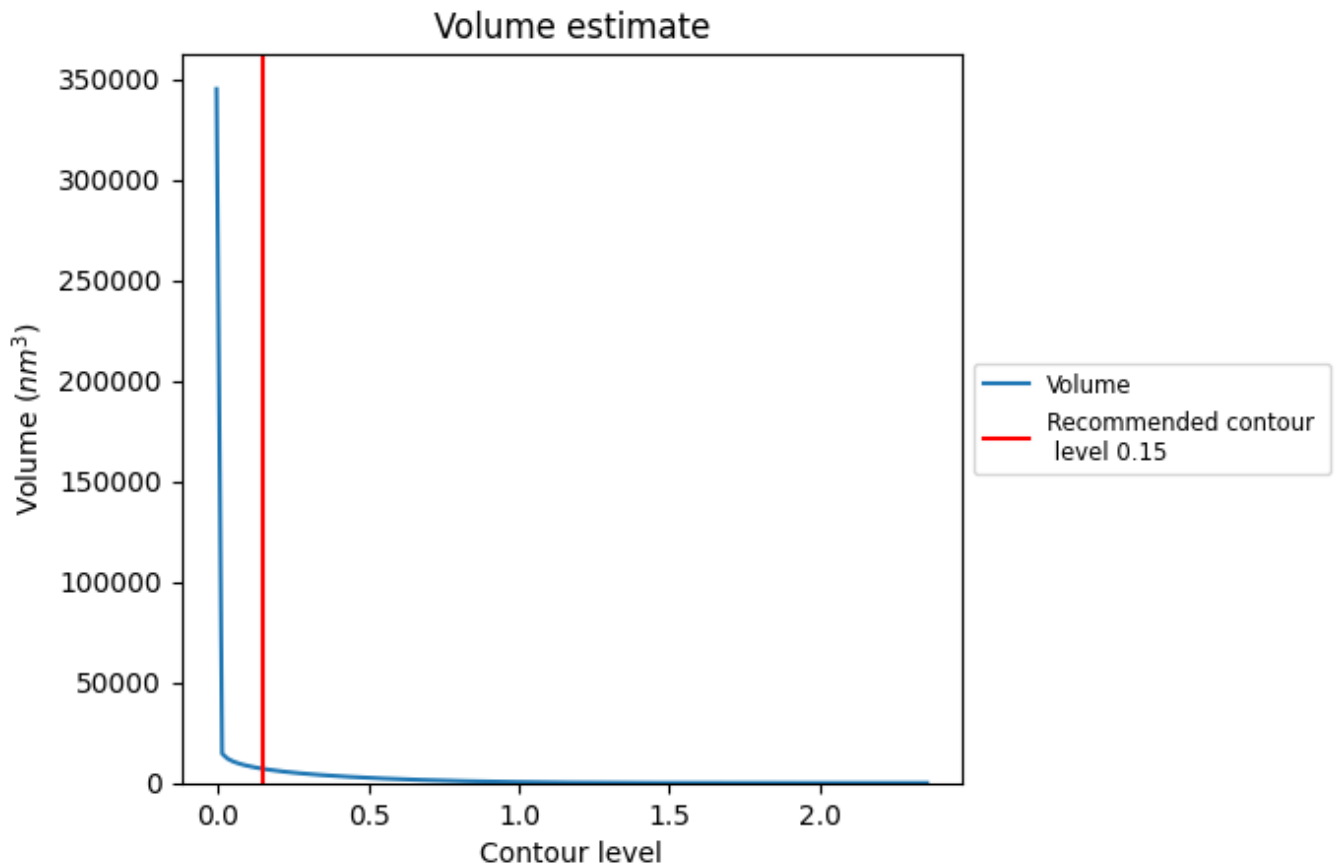
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

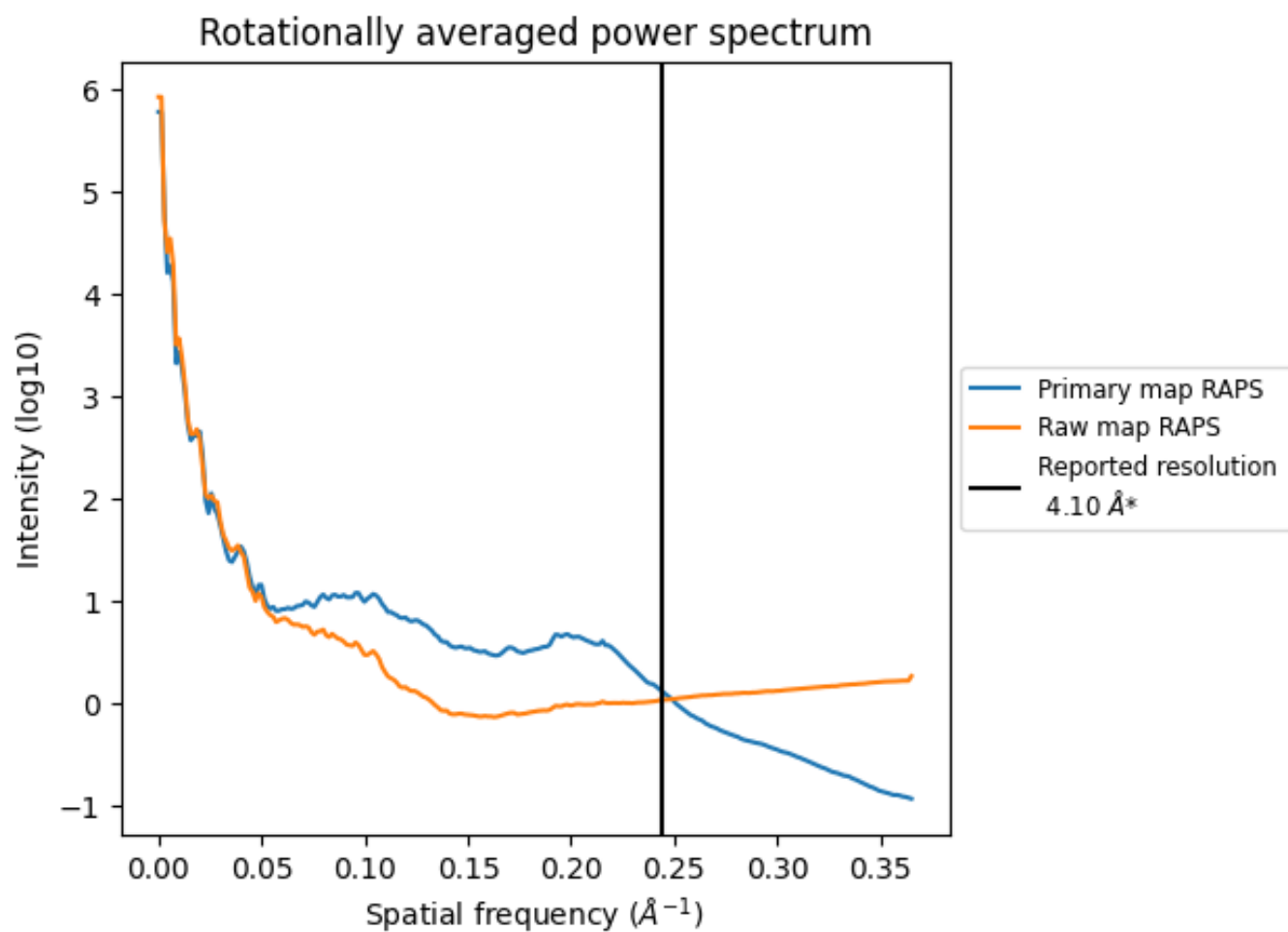
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 7038  $\text{nm}^3$ ; this corresponds to an approximate mass of 6357 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

### 7.3 Rotationally averaged power spectrum i



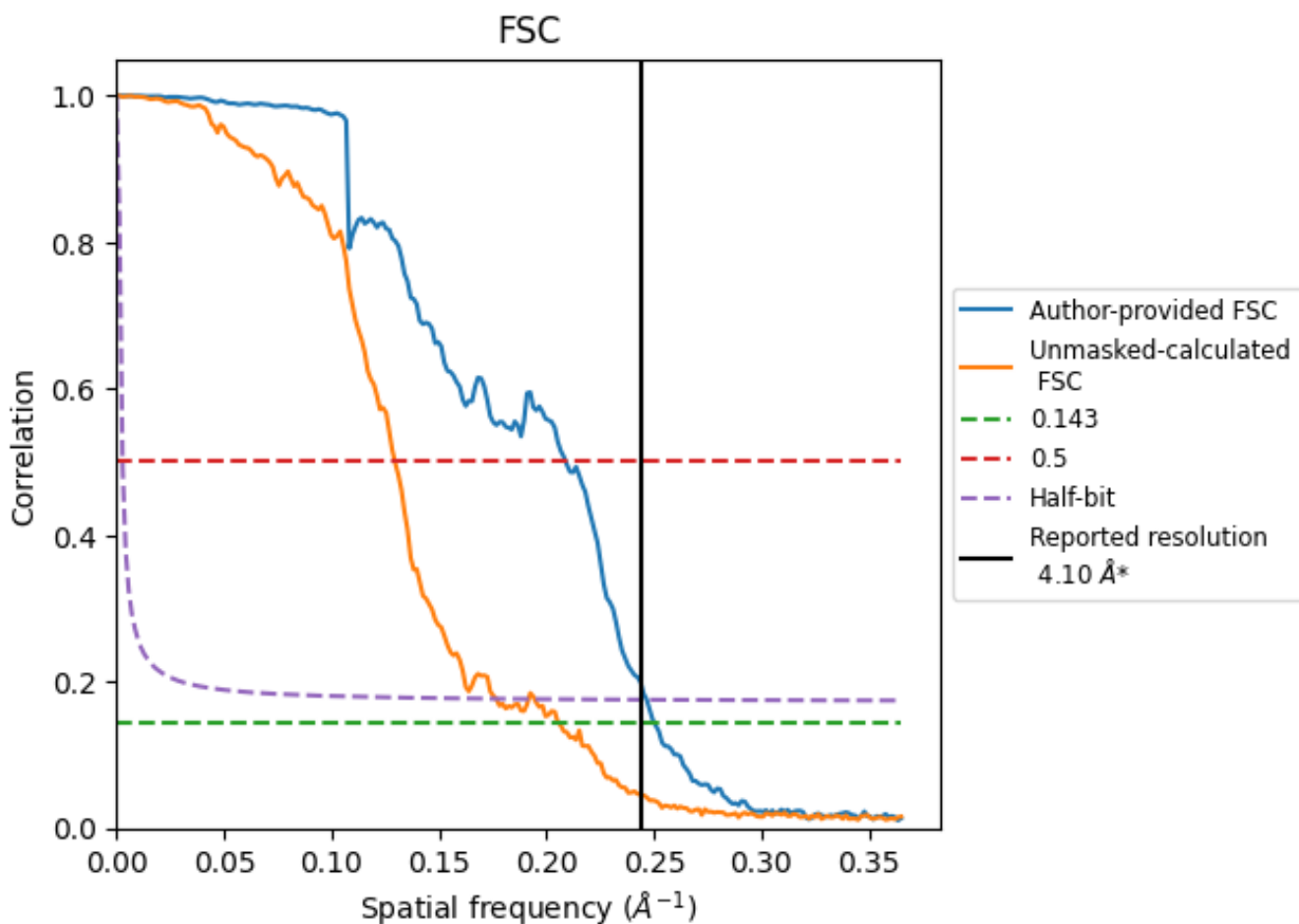
\*Reported resolution corresponds to spatial frequency of  $0.244 \text{ \AA}^{-1}$



## 8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

### 8.1 FSC [i](#)



\*Reported resolution corresponds to spatial frequency of 0.244 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

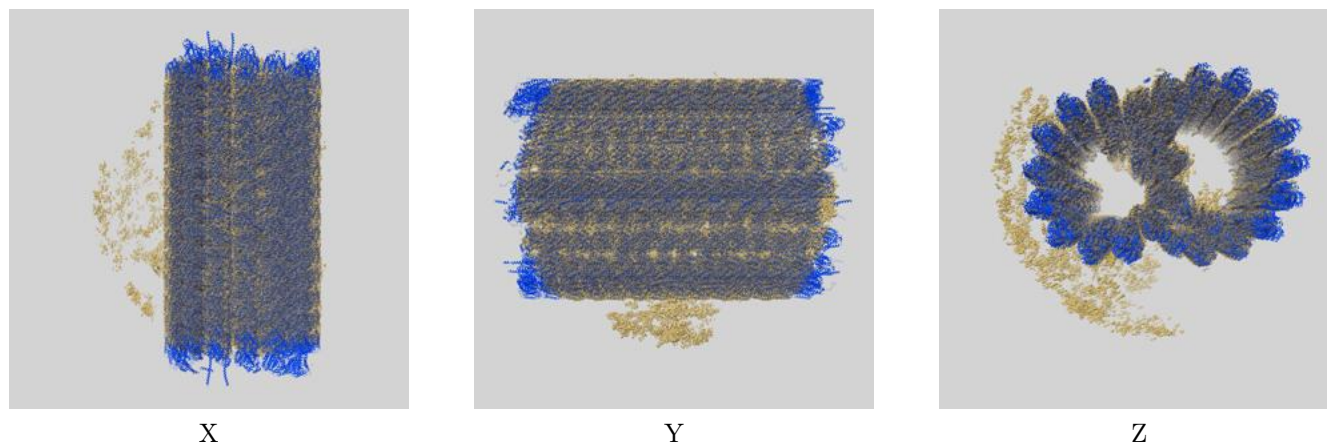
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.10	-	-
Author-provided FSC curve	4.00	4.78	4.05
Unmasked-calculated*	4.86	7.72	5.67

\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.86 differs from the reported value 4.1 by more than 10 %

## 9 Map-model fit [i](#)

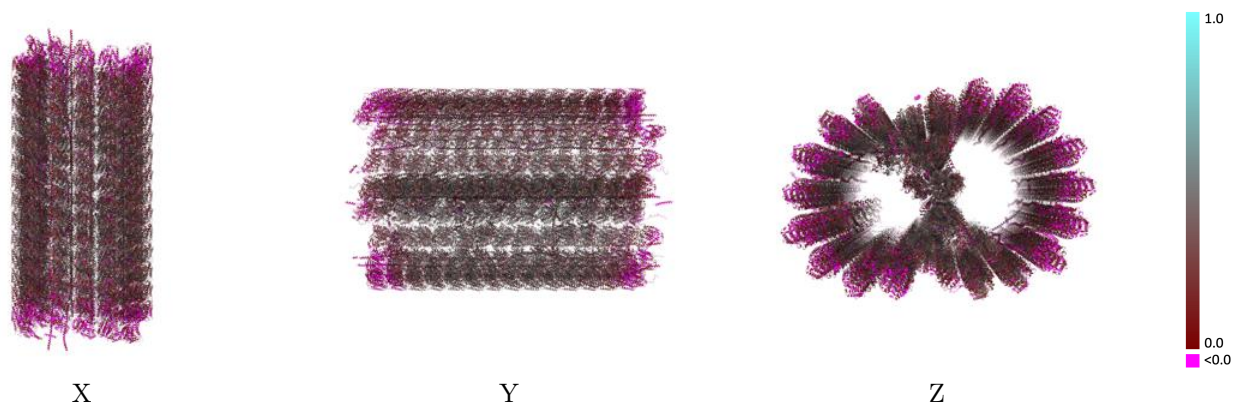
This section contains information regarding the fit between EMDB map EMD-29685 and PDB model 8G2Z. Per-residue inclusion information can be found in section 3 on page 71.

### 9.1 Map-model overlay [i](#)



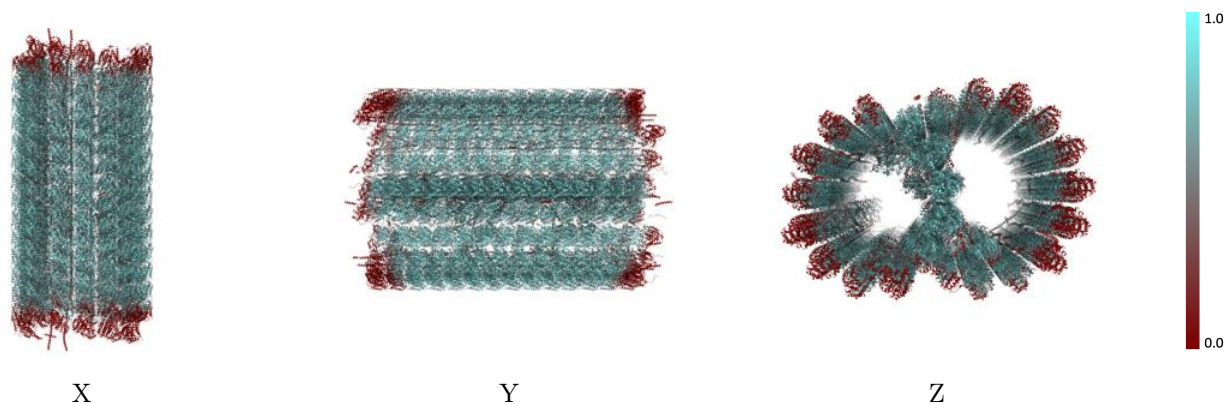
The images above show the 3D surface view of the map at the recommended contour level 0.15 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 9.2 Q-score mapped to coordinate model [i](#)



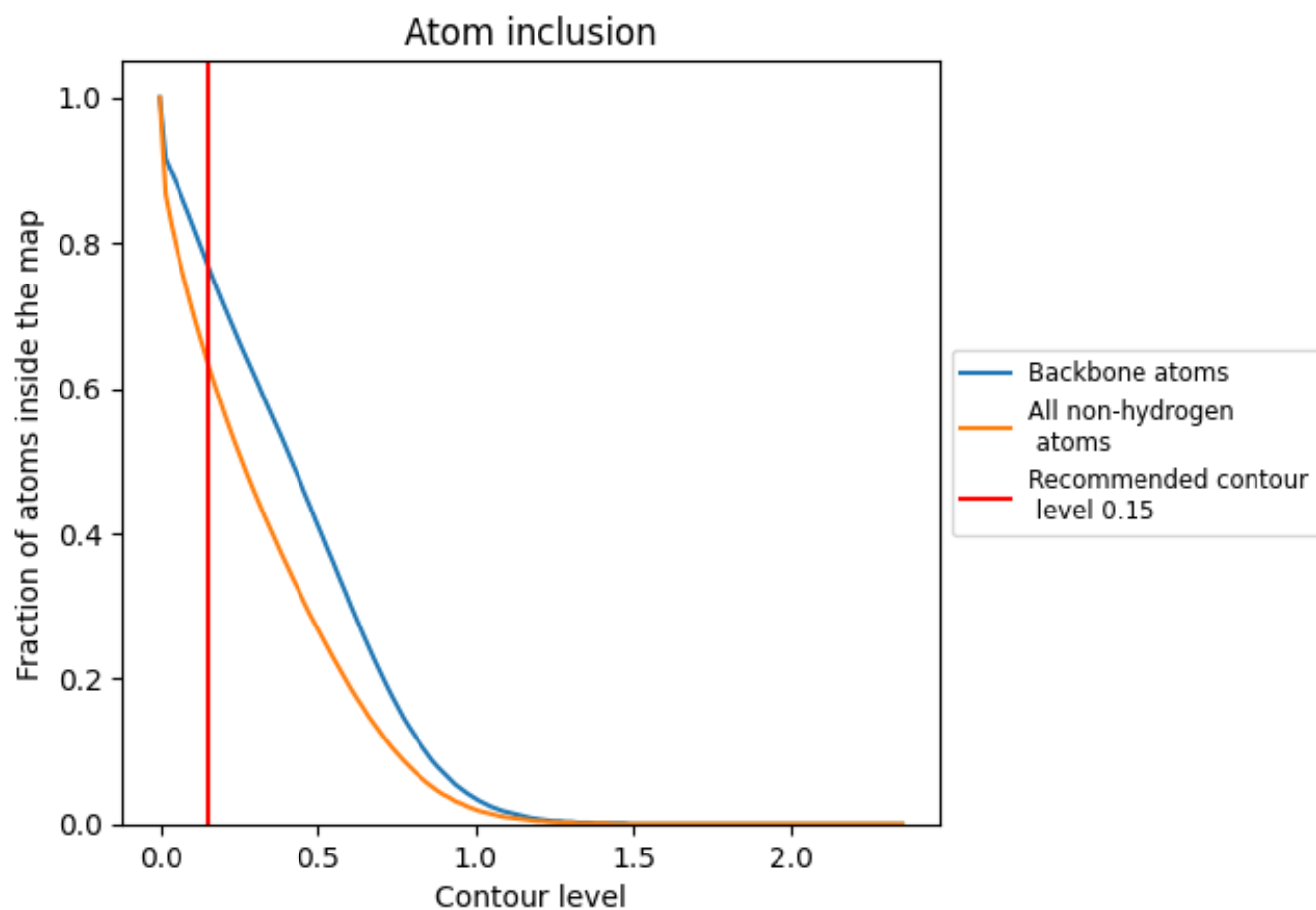
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.15).







































































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 77% of all backbone atoms, 64% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary





















































































The table lists the average atom inclusion at the recommended contour level (0.15) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6350	 0.2870
0A	 0.6270	 0.2850
0B	 0.7020	 0.3390
0C	 0.6590	 0.2830
0D	 0.4860	 0.1340
0E	 0.4270	 0.1140
0F	 0.6730	 0.2870
0G	 0.5630	 0.2310
0H	 0.3130	 0.0690
0N	 0.6690	 0.2830
0Q	 0.6950	 0.3030
0S	 0.3450	 0.1700
0T	 0.3810	 0.2120
0U	 0.6490	 0.2860
0V	 0.3220	 0.1440
0X	 0.6190	 0.2700
1A	 0.6250	 0.3300
1B	 0.6590	 0.3000
1C	 0.6690	 0.2570
1D	 0.5820	 0.2640
1E	 0.4750	 0.2120
1F	 0.6510	 0.3180
1G	 0.5670	 0.2220
1H	 0.3960	 0.1160
1I	 0.6710	 0.3240
1J	 0.5980	 0.2620
1K	 0.5000	 0.1890
1L	 0.5870	 0.2700
1M	 0.7080	 0.3460
1N	 0.7050	 0.3380
1O	 0.3310	 0.0650
1P	 0.4110	 0.0930
1Q	 0.7350	 0.3550
1R	 0.6960	 0.3450
1S	 0.7010	 0.3410























































































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Chain	Atom inclusion	Q-score
1T	 0.7190	 0.3760
1U	 0.7190	 0.3500
1V	 0.5620	 0.2500
1W	 0.6570	 0.3050
1X	 0.6790	 0.3550
2A	 0.6660	 0.3430
2B	 0.6340	 0.2800
2C	 0.5680	 0.2020
2D	 0.5680	 0.2430
2E	 0.5390	 0.2350
2F	 0.6600	 0.2910
2G	 0.6680	 0.3100
2H	 0.6050	 0.3290
2I	 0.5660	 0.2640
2K	 0.4450	 0.1560
2L	 0.3740	 0.1590
2M	 0.7450	 0.3700
2N	 0.5800	 0.2080
2O	 0.3850	 0.0520
2P	 0.4280	 0.1250
2Q	 0.7370	 0.3520
2R	 0.7090	 0.3620
2S	 0.6930	 0.3390
2T	 0.7380	 0.3700
2U	 0.7200	 0.3410
2V	 0.5600	 0.2450
2W	 0.4220	 0.1170
2X	 0.6870	 0.3440
3A	 0.6540	 0.3140
3B	 0.5800	 0.2380
3C	 0.6340	 0.2710
3D	 0.3550	 0.2420
3E	 0.2920	 0.0800
3H	 0.5950	 0.3190
3I	 0.7040	 0.3220
3L	 0.2740	 0.0410
3O	 0.3560	 0.0500
3Q	 0.7310	 0.3560
3R	 0.6980	 0.3480
3S	 0.6950	 0.3200
3T	 0.7160	 0.3540
3U	 0.6100	 0.2660

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Chain	Atom inclusion	Q-score
3V	 0.5220	 0.2240
3X	 0.6450	 0.3150
4C	 0.6120	 0.2600
4F	 0.6090	 0.2780
4H	 0.6190	 0.3360
4Q	 0.7280	 0.3560
4R	 0.6910	 0.3500
4S	 0.6600	 0.3150
4X	 0.6460	 0.2980
5A	 0.5170	 0.2410
5B	 0.6500	 0.3190
5C	 0.6580	 0.3260
5D	 0.5100	 0.2510
5E	 0.3130	 0.1210
5F	 0.4260	 0.2120
5G	 0.4780	 0.2430
5H	 0.3940	 0.1430
5I	 0.2700	 0.1310
5J	 0.3190	 0.2170
5K	 0.1850	 0.0640
5Q	 0.7190	 0.3490
5R	 0.7080	 0.3460
5S	 0.6700	 0.3220
6F	 0.6980	 0.3660
6G	 0.5490	 0.1970
6H	 0.6170	 0.2460
6Q	 0.6620	 0.2980
6R	 0.5210	 0.2160
7R	 0.5490	 0.2300
8L	 0.6500	 0.1740
8N	 0.5800	 0.1110
8P	 0.6570	 0.1800
8R	 0.6270	 0.1770
AA	 0.7390	 0.3500
AB	 0.4970	 0.2450
AC	 0.7700	 0.4050
AD	 0.7710	 0.3870
AE	 0.7780	 0.4230
AF	 0.7690	 0.4050
AG	 0.7670	 0.4100
AH	 0.7600	 0.4020
AI	 0.7750	 0.4080

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Chain	Atom inclusion	Q-score
AJ	 0.7620	 0.4030
AK	 0.7740	 0.4080
AL	 0.7730	 0.4090
AM	 0.7420	 0.3490
AN	 0.7690	 0.3820
BA	 0.5690	 0.2260
BB	 0.0830	 0.0170
BC	 0.7410	 0.3410
BD	 0.7260	 0.3190
BE	 0.7490	 0.3730
BF	 0.7460	 0.3660
BG	 0.7480	 0.3710
BH	 0.7350	 0.3510
BI	 0.7730	 0.3870
BJ	 0.7530	 0.3790
BK	 0.7520	 0.3700
BL	 0.7480	 0.3700
BM	 0.6930	 0.2930
BN	 0.7450	 0.3380
CA	 0.2480	 0.0830
CB	 0.6510	 0.2380
CC	 0.7040	 0.3080
CD	 0.7440	 0.3450
CE	 0.7300	 0.3520
CF	 0.7290	 0.3270
CG	 0.7280	 0.3460
CH	 0.7380	 0.3550
CI	 0.7480	 0.3670
CJ	 0.7500	 0.3500
CK	 0.7330	 0.3470
CL	 0.6950	 0.2970
CM	 0.5950	 0.2200
CN	 0.0150	 0.0060
DA	 0.0240	 0.0130
DB	 0.4770	 0.1790
DC	 0.6960	 0.2740
DD	 0.7530	 0.3340
DE	 0.7370	 0.3480
DF	 0.7590	 0.3500
DG	 0.7330	 0.3320
DH	 0.7510	 0.3510
DI	 0.7410	 0.3490





















































































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Chain	Atom inclusion	Q-score
DJ	 0.7570	 0.3480
DK	 0.7510	 0.3330
DL	 0.7010	 0.2760
DM	 0.5790	 0.2040
DN	 0.0330	 -0.0070
EA	 0.0000	 0.0450
EB	 0.2380	 0.0770
EC	 0.6040	 0.2260
ED	 0.7040	 0.3040
EE	 0.7220	 0.3390
EF	 0.7180	 0.3380
EG	 0.7080	 0.3380
EH	 0.6980	 0.3200
EI	 0.7260	 0.3510
EJ	 0.7220	 0.3410
EK	 0.7290	 0.3400
EL	 0.6770	 0.2890
EM	 0.5610	 0.2120
EN	 0.0430	 -0.0070
FA	 0.6100	 0.2230
FB	 0.1590	 0.0540
FC	 0.7580	 0.3550
FD	 0.7300	 0.3150
FE	 0.7570	 0.3710
FF	 0.7560	 0.3660
FG	 0.7440	 0.3560
FH	 0.7380	 0.3490
FI	 0.7630	 0.3700
FJ	 0.7580	 0.3650
FK	 0.6930	 0.2910
FL	 0.7440	 0.3340
FM	 0.0000	 0.0090
FN	 0.1680	 0.0210
GA	 0.5900	 0.2170
GB	 0.0800	 -0.0020
GC	 0.7510	 0.3590
GD	 0.7480	 0.3270
GE	 0.7620	 0.3770
GF	 0.7510	 0.3730
GG	 0.7370	 0.3660
GH	 0.7570	 0.3700
GI	 0.7580	 0.3820





















































































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Chain	Atom inclusion	Q-score
GJ	 0.7680	 0.3820
GK	 0.7440	 0.3410
GL	 0.7460	 0.3600
GM	 0.0000	 0.0040
GN	 0.4400	 0.1860
HA	 0.6100	 0.2520
HB	 0.1250	 0.0330
HC	 0.7540	 0.3780
HD	 0.7530	 0.3540
HE	 0.7610	 0.3900
HF	 0.7560	 0.3810
HG	 0.7380	 0.3680
HH	 0.7580	 0.3820
HI	 0.7640	 0.3980
HJ	 0.7560	 0.3790
HK	 0.7610	 0.3700
HL	 0.7480	 0.3750
HM	 0.0860	 0.0010
HN	 0.6170	 0.2650
IA	 0.6800	 0.2860
IB	 0.2470	 0.1070
IC	 0.7540	 0.3780
ID	 0.7450	 0.3560
IE	 0.7570	 0.3930
IF	 0.7650	 0.3960
IG	 0.7380	 0.3720
IH	 0.7590	 0.3840
II	 0.7650	 0.3930
IJ	 0.7540	 0.3800
IK	 0.7660	 0.3810
IL	 0.7520	 0.3800
IM	 0.5180	 0.2510
IN	 0.7370	 0.3360
JA	 0.7550	 0.3670
JB	 0.7380	 0.3350
JC	 0.7620	 0.3940
JD	 0.7610	 0.3880
JE	 0.7690	 0.3980
JF	 0.7760	 0.4110
JG	 0.7630	 0.3880
JH	 0.7610	 0.3940
JI	 0.7720	 0.4020





















































































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Chain	Atom inclusion	Q-score
JJ	 0.7630	 0.3950
JK	 0.7530	 0.3760
JL	 0.7640	 0.3990
JM	 0.2250	 0.1040
JN	 0.7110	 0.3350
KA	 0.7570	 0.3580
KB	 0.6910	 0.2970
KC	 0.7680	 0.4020
KD	 0.7670	 0.3940
KE	 0.7760	 0.4030
KF	 0.7870	 0.4100
KG	 0.7770	 0.4040
KH	 0.7740	 0.4060
KI	 0.7710	 0.3910
KJ	 0.7760	 0.3980
KK	 0.7900	 0.4020
KL	 0.7830	 0.4120
KM	 0.6410	 0.3100
KN	 0.7710	 0.3780
LA	 0.7530	 0.3740
LB	 0.7300	 0.3370
LC	 0.7680	 0.4130
LD	 0.7750	 0.3990
LE	 0.7630	 0.4010
LF	 0.7590	 0.4020
LG	 0.7620	 0.4080
LH	 0.7760	 0.4050
LI	 0.7560	 0.3930
LJ	 0.7720	 0.4100
LK	 0.7640	 0.4050
LL	 0.7660	 0.4050
LM	 0.7290	 0.3450
LN	 0.7800	 0.3960
MA	 0.7670	 0.3810
MB	 0.7330	 0.3340
MC	 0.7680	 0.4070
MD	 0.7720	 0.4050
ME	 0.7650	 0.4070
MF	 0.7810	 0.4120
MG	 0.7530	 0.3940
MH	 0.7710	 0.4090
MI	 0.7550	 0.3960





















































































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Chain	Atom inclusion	Q-score
MJ	 0.7840	 0.4140
MK	 0.7670	 0.4000
ML	 0.7620	 0.4080
MM	 0.7470	 0.3510
MN	 0.7900	 0.3960
NA	 0.6530	 0.2780
NB	 0.5050	 0.1950
NC	 0.7260	 0.3500
ND	 0.7040	 0.3210
NE	 0.7230	 0.3630
NF	 0.7280	 0.3680
NG	 0.7200	 0.3510
NH	 0.7050	 0.3430
NI	 0.7180	 0.3520
NJ	 0.7210	 0.3470
NK	 0.7210	 0.3500
NL	 0.7120	 0.3510
NM	 0.4200	 0.2120
NN	 0.6890	 0.3130
OA	 0.6240	 0.2260
OB	 0.2530	 0.0810
OC	 0.7140	 0.3160
OD	 0.7100	 0.2830
OE	 0.7340	 0.3470
OF	 0.7420	 0.3430
OG	 0.7300	 0.3310
OH	 0.7250	 0.3340
OI	 0.7250	 0.3360
OJ	 0.7240	 0.3270
OK	 0.7310	 0.3360
OL	 0.7370	 0.3410
OM	 0.4040	 0.1940
ON	 0.6890	 0.2870
PA	 0.4570	 0.1270
PB	 0.0730	 0.0150
PC	 0.6880	 0.2650
PD	 0.6350	 0.2110
PE	 0.7190	 0.3070
PF	 0.7030	 0.2940
PG	 0.6980	 0.2950
PH	 0.7030	 0.2940
PI	 0.7150	 0.3160





















































































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Chain	Atom inclusion	Q-score
PJ	 0.6900	 0.2960
PK	 0.7260	 0.3090
PL	 0.7210	 0.3080
PM	 0.2980	 0.1290
PN	 0.6560	 0.2510
QA	 0.2050	 0.0200
QB	 0.5990	 0.1940
QC	 0.6820	 0.2340
QD	 0.7050	 0.2810
QE	 0.7300	 0.2930
QF	 0.7140	 0.2910
QG	 0.7000	 0.2760
QH	 0.7150	 0.3030
QI	 0.7250	 0.3000
QJ	 0.7160	 0.3010
QK	 0.7040	 0.2820
QL	 0.6440	 0.2260
QM	 0.2160	 0.0710
QN	 0.0000	 0.0310
RA	 0.0870	 0.0150
RB	 0.5350	 0.1860
RC	 0.6590	 0.2270
RD	 0.6940	 0.2710
RE	 0.7010	 0.2870
RF	 0.6990	 0.2800
RG	 0.6830	 0.2670
RH	 0.7000	 0.2800
RI	 0.7060	 0.2980
RJ	 0.6970	 0.2860
RK	 0.6910	 0.2710
RL	 0.6290	 0.2190
RM	 0.2500	 0.0860
RN	 0.0000	 0.0250
SA	 0.0180	 0.0210
SB	 0.4380	 0.1350
SC	 0.6670	 0.2360
SD	 0.7140	 0.2840
SE	 0.7160	 0.2920
SF	 0.7160	 0.2890
SG	 0.7120	 0.2790
SH	 0.7140	 0.2950
SI	 0.7180	 0.3020







































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Chain	Atom inclusion	Q-score
SJ	 0.7170	 0.3000
SK	 0.7190	 0.2910
SL	 0.6630	 0.2300
SM	 0.3750	 0.1260
SN	 0.0000	 0.0100
TA	 0.0010	 0.0270
TB	 0.3000	 0.0530
TC	 0.6160	 0.2070
TD	 0.6780	 0.2620
TE	 0.6860	 0.2580
TF	 0.6920	 0.2750
TG	 0.6800	 0.2610
TH	 0.6700	 0.2540
TI	 0.6810	 0.2690
TJ	 0.6900	 0.2710
TK	 0.6830	 0.2740
TL	 0.6420	 0.2200
TM	 0.4850	 0.1300
TN	 0.0480	 0.0030
UA	 0.0170	 0.0260
UB	 0.3530	 0.1120
UC	 0.6310	 0.2310
UD	 0.6630	 0.2510
UE	 0.7050	 0.2890
UF	 0.6710	 0.2670
UG	 0.6830	 0.2680
UH	 0.6490	 0.2400
UI	 0.6810	 0.2710
UJ	 0.6640	 0.2560
UK	 0.6700	 0.2720
UL	 0.6420	 0.2410
UM	 0.5990	 0.2090
UN	 0.1950	 0.0210
VA	 0.6960	 0.2830
VB	 0.4690	 0.1930
VC	 0.7380	 0.3310
VD	 0.7350	 0.3130
VE	 0.7390	 0.3230
VF	 0.7300	 0.3250
VG	 0.7330	 0.3190
VH	 0.7070	 0.2980
VI	 0.7430	 0.3270

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Chain	Atom inclusion	Q-score
VJ	 0.7280	 0.3210
VK	 0.6950	 0.2880
VL	 0.7130	 0.2990
VM	 0.0210	 0.0100
VN	 0.4530	 0.1240
WA	 0.7190	 0.3010
WB	 0.5110	 0.2200
WC	 0.7390	 0.3350
WD	 0.7250	 0.3210
WE	 0.7280	 0.3310
WF	 0.7300	 0.3360
WG	 0.7220	 0.3170
WH	 0.7010	 0.3050
WI	 0.7480	 0.3460
WJ	 0.7320	 0.3300
WK	 0.7150	 0.3010
WL	 0.7130	 0.3140
WM	 0.2330	 0.0860
WN	 0.6270	 0.2310