



# Full wwPDB X-ray Structure Validation Report ⓘ

Jan 2, 2024 – 11:24 am GMT

PDB ID : 4V5G  
Title : The crystal structure of the 70S ribosome bound to EF-Tu and tRNA  
Authors : Schmeing, T.M.; Voorhees, R.M.; Ramakrishnan, V.  
Deposited on : 2009-09-01  
Resolution : 3.60 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity : 4.02b-467  
Mogul : 1.8.4, CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.36  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36

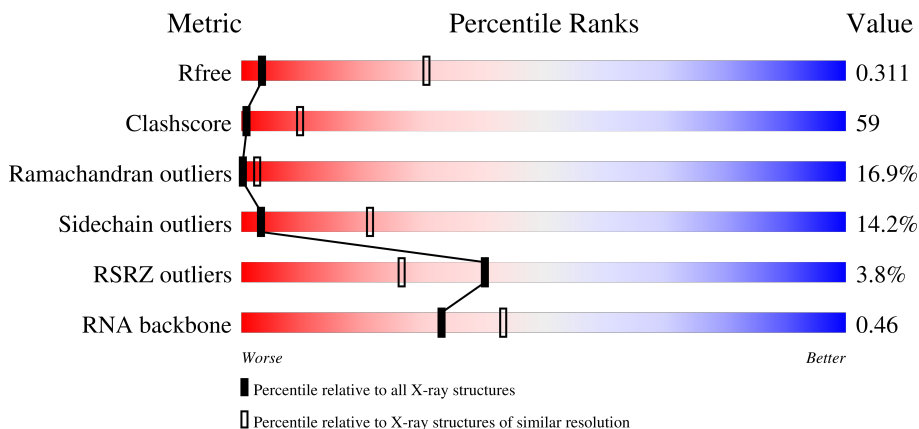
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.60 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.




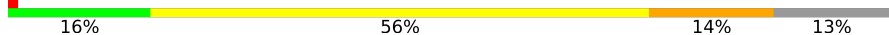

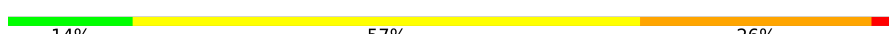


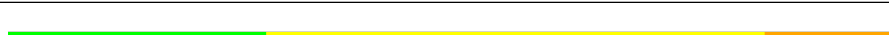
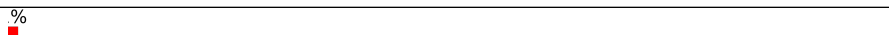
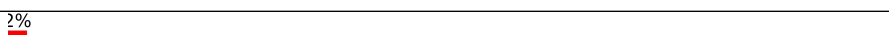
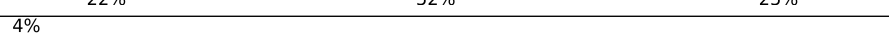
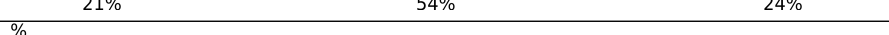
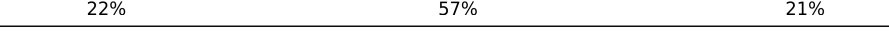
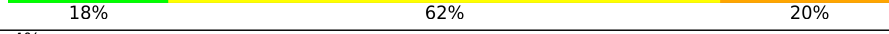
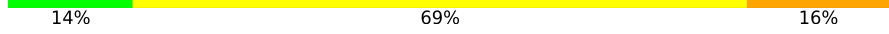
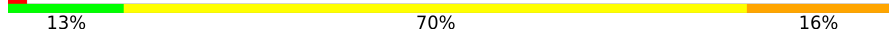
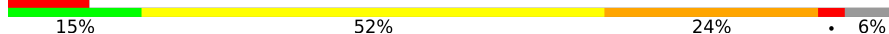

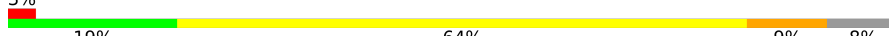


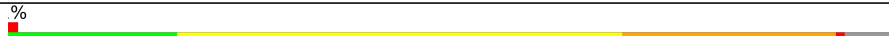




Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	1257 (3.70-3.50)
Clashscore	141614	1353 (3.70-3.50)
Ramachandran outliers	138981	1307 (3.70-3.50)
Sidechain outliers	138945	1307 (3.70-3.50)
RSRZ outliers	127900	1161 (3.70-3.50)
RNA backbone	3102	1017 (4.20-3.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	1522	<div style="display: flex; align-items: center;"> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green);"></div> <div style="margin-left: 5px;"> <p style="font-size: 8px;">%</p> <p>11% 66% 19% ..</p> </div> </div>
1	CA	1522	<div style="display: flex; align-items: center;"> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green);"></div> <div style="margin-left: 5px;"> <p style="font-size: 8px;">%</p> <p>11% 67% 18% ..</p> </div> </div>
2	AB	256	<div style="display: flex; align-items: center;"> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green);"></div> <div style="margin-left: 5px;"> <p style="font-size: 8px;">%</p> <p>13% 57% 20% • 8%</p> </div> </div>
2	CB	256	<div style="display: flex; align-items: center;"> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green);"></div> <div style="margin-left: 5px;"> <p style="font-size: 8px;">2%</p> <p>13% 58% 18% • 8%</p> </div> </div>

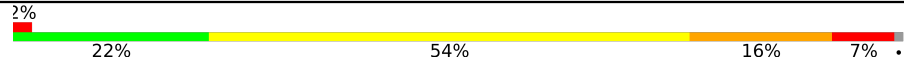
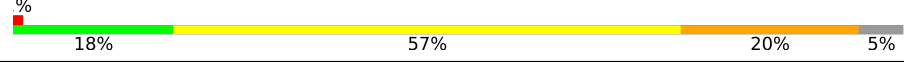
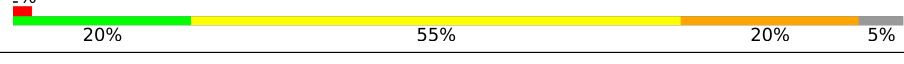
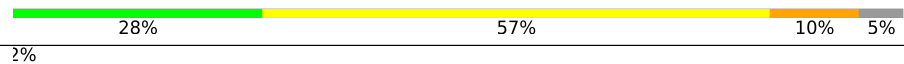
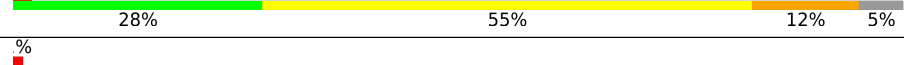
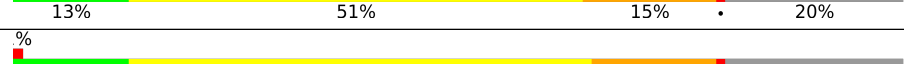
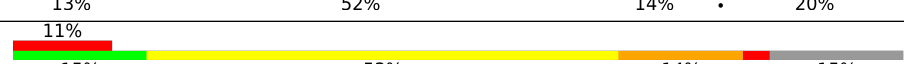
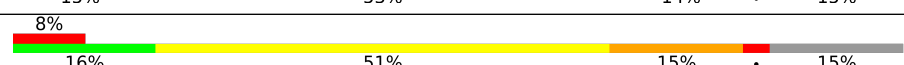
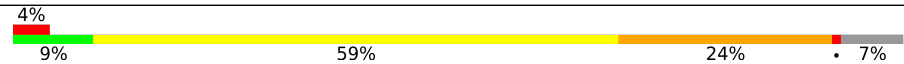

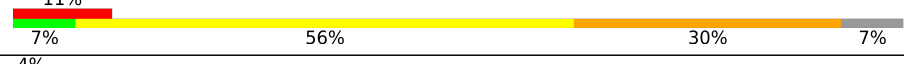
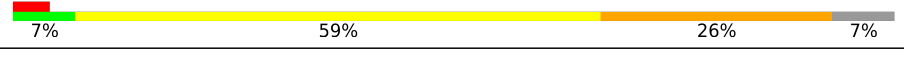
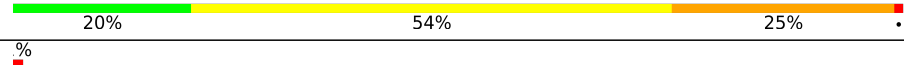
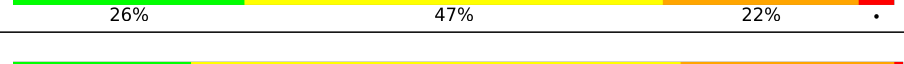
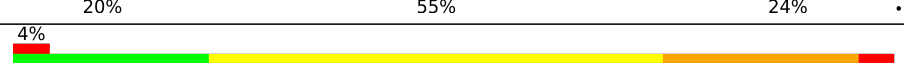
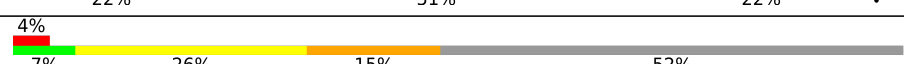
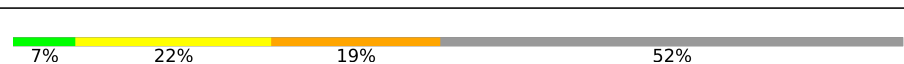
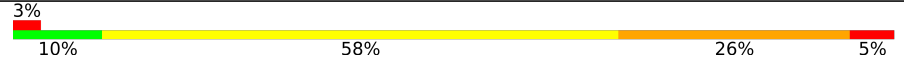
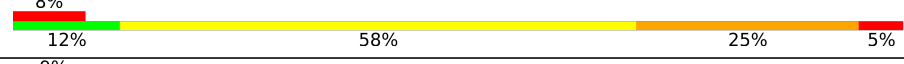
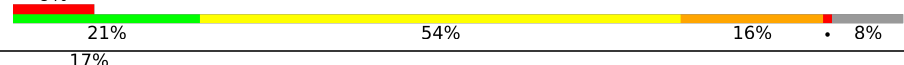
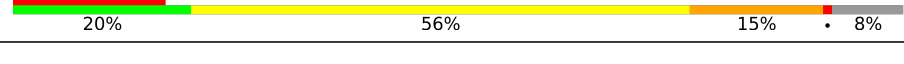
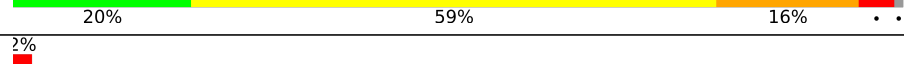
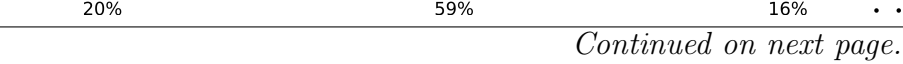


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Mol	Chain	Length	Quality of chain
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	162	
5	CE	162	
6	AF	101	
6	CF	101	
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	135	
12	CL	135	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	
15	AO	89	

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Mol	Chain	Length	Quality of chain
15	CO	89	
16	AP	88	
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	AV	76	
22	AW	76	
22	CV	76	
22	CW	76	
23	AX	27	
23	CX	27	
24	AY	77	
24	CY	77	
25	AZ	406	
25	CZ	406	
26	B0	85	
26	D0	85	

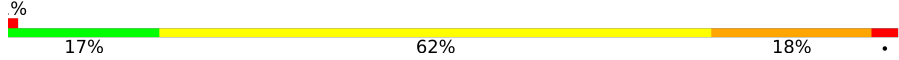

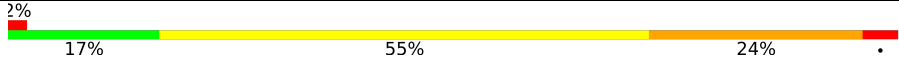
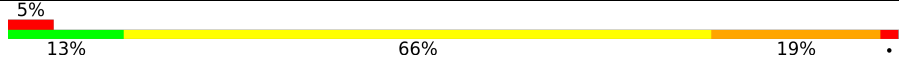
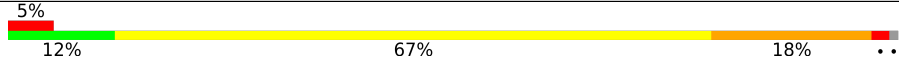
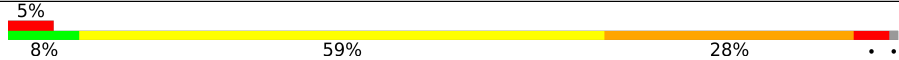
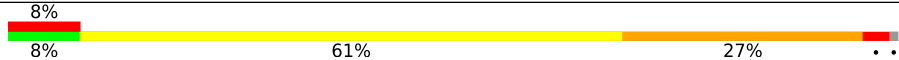
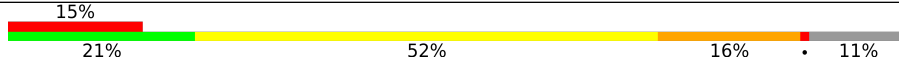
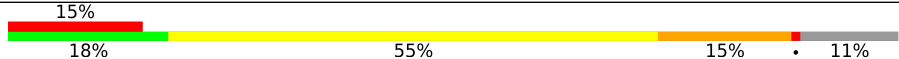
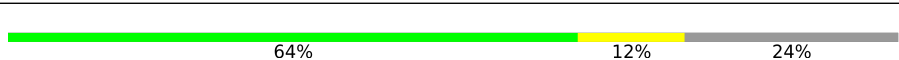
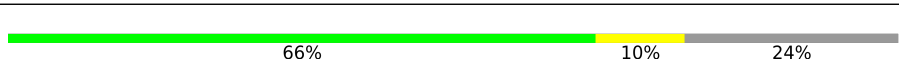
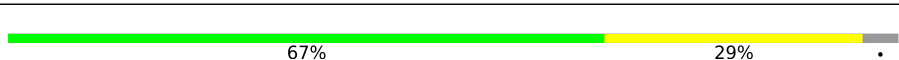

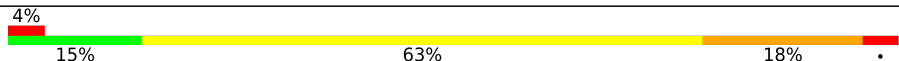
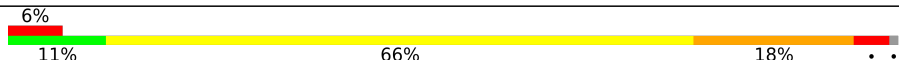
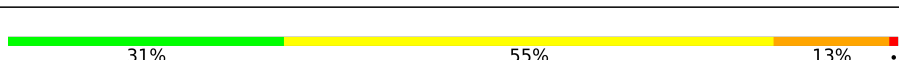
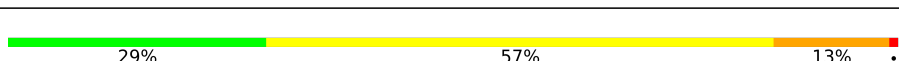
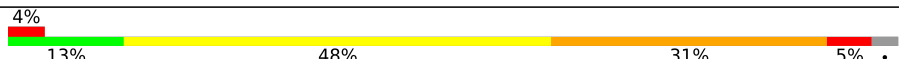
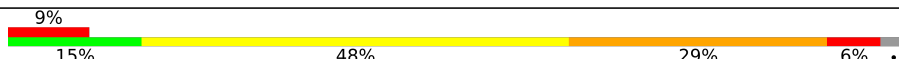
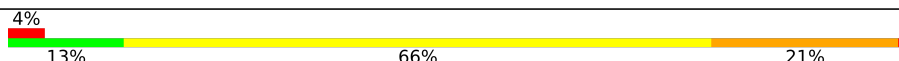
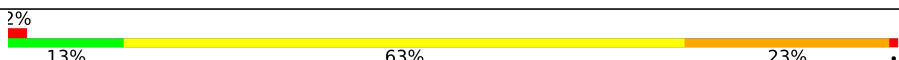
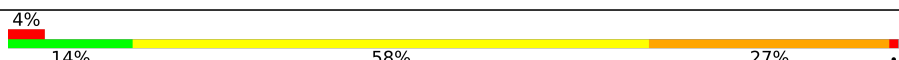
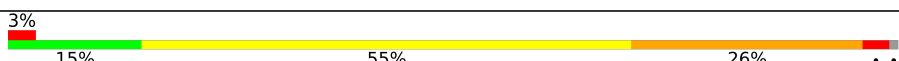
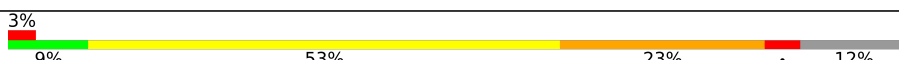
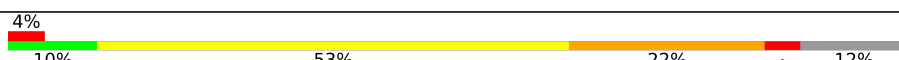
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Mol	Chain	Length	Quality of chain
27	B1	98	3% 15% 56% 21% . .
27	D1	98	% 16% 52% 26% . .
28	B2	72	8% 54% 28% 8% .
28	D2	72	4% 10% 61% 26% ..
29	B3	60	15% 58% 25% .
29	D3	60	8% 15% 60% 23% .
30	B4	71	11% 11% 31% 15% 6% 37%
30	D4	71	8% 11% 31% 14% 7% 37%
31	B5	60	8% 18% 62% 15% . .
31	D5	60	10% 18% 60% 17% . .
32	B6	54	13% 52% 30% 7% 7%
32	D6	54	11% 7% 46% 31% 7% 7%
33	B7	49	12% 61% 24% .
33	D7	49	10% 65% 22% .
34	B8	65	5% 5% 69% 22% . .
34	D8	65	5% 5% 69% 22% . .
35	B9	37	5% 16% 57% 27%
35	D9	37	11% 16% 59% 24%
36	BA	2915	2% 13% 65% 20% .
36	DA	2915	2% 13% 65% 21% .
37	BB	122	2% 16% 61% 21% .
37	DB	122	12% 65% 20% .
38	BC	229	7% 20% 62% 17% .
38	DC	229	12% 19% 63% 17% .
39	BD	276	% 18% 63% 16% .

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Mol	Chain	Length	Quality of chain
39	DD	276	
40	BE	206	
40	DE	206	
41	BF	210	
41	DF	210	
42	BG	182	
42	DG	182	
43	BH	180	
43	DH	180	
44	BJ	173	
44	DJ	173	
45	BK	147	
45	DK	147	
46	BN	140	
46	DN	140	
47	BO	122	
47	DO	122	
48	BP	150	
48	DP	150	
49	BQ	141	
49	DQ	141	
50	BR	118	
50	DR	118	
51	BS	112	
51	DS	112	

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Mol	Chain	Length	Quality of chain
52	BT	146	
52	DT	146	
53	BU	118	
53	DU	118	
54	BV	101	
54	DV	101	
55	BW	113	
55	DW	113	
56	BX	96	
56	DX	96	
57	BY	110	
57	DY	110	
58	BZ	206	
58	DZ	206	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
24	H2U	AY	16	-	-	-	X
24	H2U	CY	16	-	-	-	X
24	H2U	CY	17	-	-	-	X
24	PSU	CY	55	-	-	X	-
60	ZN	D9	101	-	-	X	-
61	MG	CY	101	-	-	-	X
62	GDP	AZ	501	-	-	X	-
62	GDP	CZ	501	-	-	X	-

## 2 Entry composition

There are 63 unique types of molecules in this entry. The entry contains 306876 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 RNA chain called 16S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	AA	1504	Total 32329	C 14390	N 5992	O 10444	P 1503	0	0	0
1	CA	1504	Total 32329	C 14390	N 5992	O 10444	P 1503	0	0	0

- Molecule 2 is a protein called 30S RIBOSOMAL PROTEIN S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	AB	235	Total 1901	C 1213	N 342	O 341	S 5	0	0	1
2	CB	235	Total 1901	C 1213	N 342	O 341	S 5	0	0	1

- Molecule 3 is a protein called 30S RIBOSOMAL PROTEIN S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	AC	207	Total 1613	C 1016	N 315	O 281	S 1	0	0	1
3	CC	207	Total 1613	C 1016	N 315	O 281	S 1	0	0	1

- Molecule 4 is a protein called 30S RIBOSOMAL PROTEIN S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	AD	208	Total 1703	C 1066	N 339	O 291	S 7	0	0	0
4	CD	208	Total 1703	C 1066	N 339	O 291	S 7	0	0	0

- Molecule 5 is a protein called 30S RIBOSOMAL PROTEIN S5.



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			
5	CE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			

- Molecule 6 is a protein called 30S RIBOSOMAL PROTEIN S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
6	CF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 7 is a protein called 30S RIBOSOMAL PROTEIN S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
7	CG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 8 is a protein called 30S RIBOSOMAL PROTEIN S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
8	CH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 9 is a protein called 30S RIBOSOMAL PROTEIN S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O	0	0	0
			1010	639	197	174			
9	CI	127	Total	C	N	O	0	0	0
			1010	639	197	174			

- Molecule 10 is a protein called 30S RIBOSOMAL PROTEIN S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	CJ	99	795	499	157	138	1	0	0	1

- Molecule 11 is a protein called 30S RIBOSOMAL PROTEIN S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
11	AK	119	885	549	168	165	3	0	0	0
11	CK	119	885	549	168	165	3	0	0	0

- Molecule 12 is a protein called 30S RIBOSOMAL PROTEIN S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	AL	125	971	611	196	163	1	0	0	1
12	CL	125	971	611	196	163	1	0	0	1

- Molecule 13 is a protein called 30S RIBOSOMAL PROTEIN S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	AM	125	988	611	206	169	2	0	0	1
13	CM	125	988	611	206	169	2	0	0	1

- Molecule 14 is a protein called 30S RIBOSOMAL PROTEIN S14 TYPE Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
14	AN	60	492	312	104	72	4	0	0	0
14	CN	60	492	312	104	72	4	0	0	0

- Molecule 15 is a protein called 30S RIBOSOMAL PROTEIN S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
15	AO	88	734	459	147	126	2	0	0	0
15	CO	88	734	459	147	126	2	0	0	0

- Molecule 16 is a protein called 30S RIBOSOMAL PROTEIN S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			
16	CP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			

- Molecule 17 is a protein called 30S RIBOSOMAL PROTEIN S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			
17	CQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			

- Molecule 18 is a protein called 30S RIBOSOMAL PROTEIN S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AR	70	Total	C	N	O	0	0	0
			574	367	112	95			
18	CR	70	Total	C	N	O	0	0	0
			574	367	112	95			

- Molecule 19 is a protein called 30S RIBOSOMAL PROTEIN S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			
19	CS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			

- Molecule 20 is a protein called 30S RIBOSOMAL PROTEIN S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			
20	CT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

- Molecule 21 is a protein called 30S RIBOSOMAL PROTEIN THX.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AU	25	Total	C	N	O	0	0	1
			209	128	51	30			
21	CU	25	Total	C	N	O	0	0	1
			209	128	51	30			

- Molecule 22 is a RNA chain called E-SITE TRNA PHE OR P-SITE TRNA PHE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			
22	AW	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			
22	CV	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			
22	CW	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	13	Total	C	N	O	P	0	0	0
			272	124	50	86	12			
23	CX	13	Total	C	N	O	P	0	0	0
			272	124	50	86	12			

- Molecule 24 is a RNA chain called A-SITE TRNA THR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	77	Total	C	N	O	P	0	0	0
			1650	741	292	541	76			
24	CY	77	Total	C	N	O	P	0	0	0
			1650	741	292	541	76			

- Molecule 25 is a protein called ELONGATION FACTOR TU-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	AZ	374	Total	C	N	O	S	0	0	0
			2900	1832	508	548	12			
25	CZ	374	Total	C	N	O	S	0	0	0
			2900	1832	508	548	12			

- Molecule 26 is a protein called 50S RIBOSOMAL PROTEIN L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	B0	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			
26	D0	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			

- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B1	94	Total	C	N	O	S	0	0	1
			732	460	146	125	1			
27	D1	94	Total	C	N	O	S	0	0	1
			732	460	146	125	1			

- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B2	71	Total	C	N	O	S	0	0	0
			598	370	121	106	1			
28	D2	71	Total	C	N	O	S	0	0	0
			598	370	121	106	1			

- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			
29	D3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			

- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B4	45	Total	C	N	O	S	0	0	1
			341	218	58	61	4			
30	D4	45	Total	C	N	O	S	0	0	1
			341	218	58	61	4			

- Molecule 31 is a protein called 50S RIBOSOMAL PROTEIN L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

- Molecule 32 is a protein called 50S RIBOSOMAL PROTEIN L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	B6	50	Total	C	N	O	S	0	0	0
			433	270	88	71	4			
32	D6	50	Total	C	N	O	S	0	0	0
			433	270	88	71	4			

- Molecule 33 is a protein called 50S RIBOSOMAL PROTEIN L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	B7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			
33	D7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			

- Molecule 34 is a protein called 50S RIBOSOMAL PROTEIN L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	B8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			
34	D8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			

- Molecule 35 is a protein called 50S RIBOSOMAL PROTEIN L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	B9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
35	D9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 36 is a RNA chain called 23S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BA	2901	Total	C	N	O	P	0	0	0
			62474	27806	11681	20087	2900			
36	DA	2901	Total	C	N	O	P	0	0	0
			62474	27806	11681	20087	2900			

- Molecule 37 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
37	BB	119	Total 2551	C 1136	N 471	O 826	P 118	0	0	0
37	DB	119	Total 2551	C 1136	N 471	O 826	P 118	0	0	0

- Molecule 38 is a protein called 50S RIBOSOMAL PROTEIN L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
38	BC	228	Total 1742	C 1101	N 319	O 319	S 3	0	0	0
38	DC	228	Total 1742	C 1101	N 319	O 319	S 3	0	0	0

- Molecule 39 is a protein called 50S RIBOSOMAL PROTEIN L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
39	BD	275	Total 2145	C 1353	N 428	O 361	S 3	0	0	0
39	DD	275	Total 2145	C 1353	N 428	O 361	S 3	0	0	0

- Molecule 40 is a protein called 50S RIBOSOMAL PROTEIN L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
40	BE	205	Total 1564	C 988	N 300	O 270	S 6	0	0	1
40	DE	205	Total 1564	C 988	N 300	O 270	S 6	0	0	1

- Molecule 41 is a protein called 50S RIBOSOMAL PROTEIN L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
41	BF	208	Total 1624	C 1035	N 304	O 282	S 3	0	0	1
41	DF	208	Total 1624	C 1035	N 304	O 282	S 3	0	0	1

- Molecule 42 is a protein called 50S RIBOSOMAL PROTEIN L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			
42	DG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BH	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			
43	DH	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L10.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BJ	131	Total	C	N	O	0	0	1
			651	390	131	130			
44	DJ	131	Total	C	N	O	0	0	1
			651	390	131	130			

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L11.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	BK	141	Total	C	N	O	0	0	1
			701	420	141	140			
45	DK	141	Total	C	N	O	0	0	1
			701	420	141	140			

- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BN	139	Total	C	N	O	S	0	0	1
			1105	712	207	182	4			
46	DN	139	Total	C	N	O	S	0	0	1
			1105	712	207	182	4			

- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BO	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	DO	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			
48	DP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			

- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	BQ	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
49	DQ	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 50 is a protein called 50S RIBOSOMAL PROTEIN L17.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
50	BR	117	Total	C	N	O	0	0	0
			960	599	202	159			
50	DR	117	Total	C	N	O	0	0	0
			960	599	202	159			

- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
51	BS	99	Total	C	N	O	0	0	1
			771	486	155	130			
51	DS	99	Total	C	N	O	0	0	1
			771	486	155	130			

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	BT	138	Total	C	N	O	S	0	0	1
			1142	710	235	196	1			
52	DT	138	Total	C	N	O	S	0	0	1
			1142	710	235	196	1			

- Molecule 53 is a protein called 50S RIBOSOMAL PROTEIN L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
53	BU	117	Total 958	C 604	N 202	O 151	S 1	0	0	0
53	DU	117	Total 958	C 604	N 202	O 151	S 1	0	0	0

- Molecule 54 is a protein called 50S RIBOSOMAL PROTEIN L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
54	BV	101	Total 779	C 501	N 142	O 135	S 1	0	0	0
54	DV	101	Total 779	C 501	N 142	O 135	S 1	0	0	0

- Molecule 55 is a protein called 50S RIBOSOMAL PROTEIN L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
55	BW	113	Total 896	C 563	N 176	O 155	S 2	0	0	0
55	DW	113	Total 896	C 563	N 176	O 155	S 2	0	0	0

- Molecule 56 is a protein called 50S RIBOSOMAL PROTEIN L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
56	BX	93	Total 726	C 471	N 132	O 123	0	0	1
56	DX	93	Total 726	C 471	N 132	O 123	0	0	1

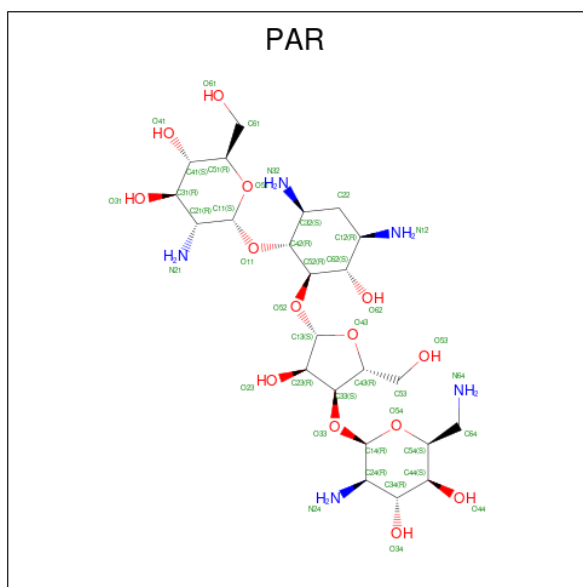
- Molecule 57 is a protein called 50S RIBOSOMAL PROTEIN L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
57	BY	101	Total 776	C 500	N 149	O 123	S 4	0	0	1
57	DY	101	Total 776	C 500	N 149	O 123	S 4	0	0	1

- Molecule 58 is a protein called 50S RIBOSOMAL PROTEIN L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
58	BZ	176	Total 1403	C 897	N 252	O 252	S 2	0	0	0
58	DZ	176	Total 1403	C 897	N 252	O 252	S 2	0	0	0

- Molecule 59 is PAROMOMYCIN (three-letter code: PAR) (formula: C<sub>23</sub>H<sub>45</sub>N<sub>5</sub>O<sub>14</sub>).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
59	AA	1	Total 42	C 23	N 5	O 14	0	0
59	CA	1	Total 42	C 23	N 5	O 14	0	0

- Molecule 60 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Zn		
60	AD	1	Total 1	Zn 1	0	0
60	AN	1	Total 1	Zn 1	0	0
60	B4	1	Total 1	Zn 1	0	0
60	B9	1	Total 1	Zn 1	0	0
60	CD	1	Total 1	Zn 1	0	0
60	CN	1	Total 1	Zn 1	0	0

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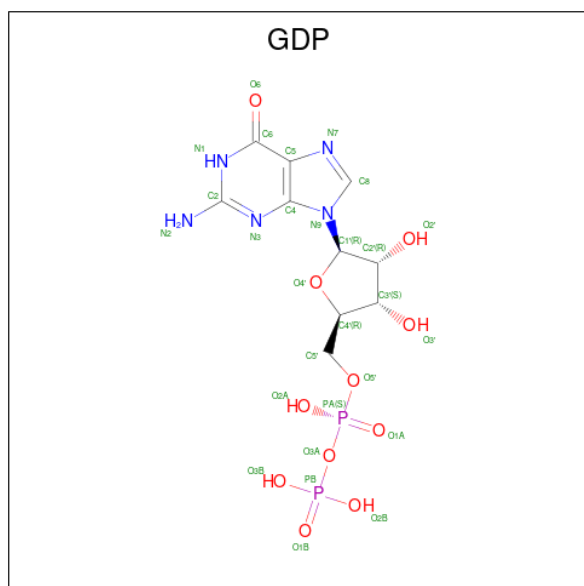
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	D4	1	Total Zn 1 1	0	0
60	D9	1	Total Zn 1 1	0	0

- Molecule 61 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

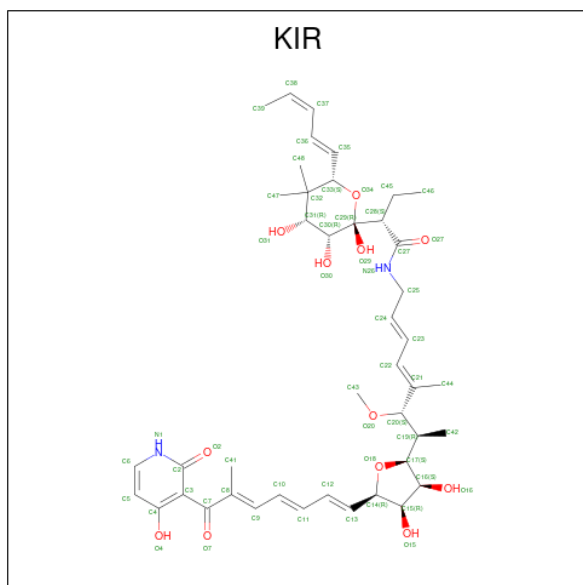
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	AY	1	Total Mg 1 1	0	0
61	CY	1	Total Mg 1 1	0	0

- Molecule 62 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: C<sub>10</sub>H<sub>15</sub>N<sub>5</sub>O<sub>11</sub>P<sub>2</sub>).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
62	AZ	1	Total C N O P 28 10 5 11 2	0	0
62	CZ	1	Total C N O P 28 10 5 11 2	0	0

- Molecule 63 is KIRROMYCIN (three-letter code: KIR) (formula: C<sub>43</sub>H<sub>60</sub>N<sub>2</sub>O<sub>12</sub>).

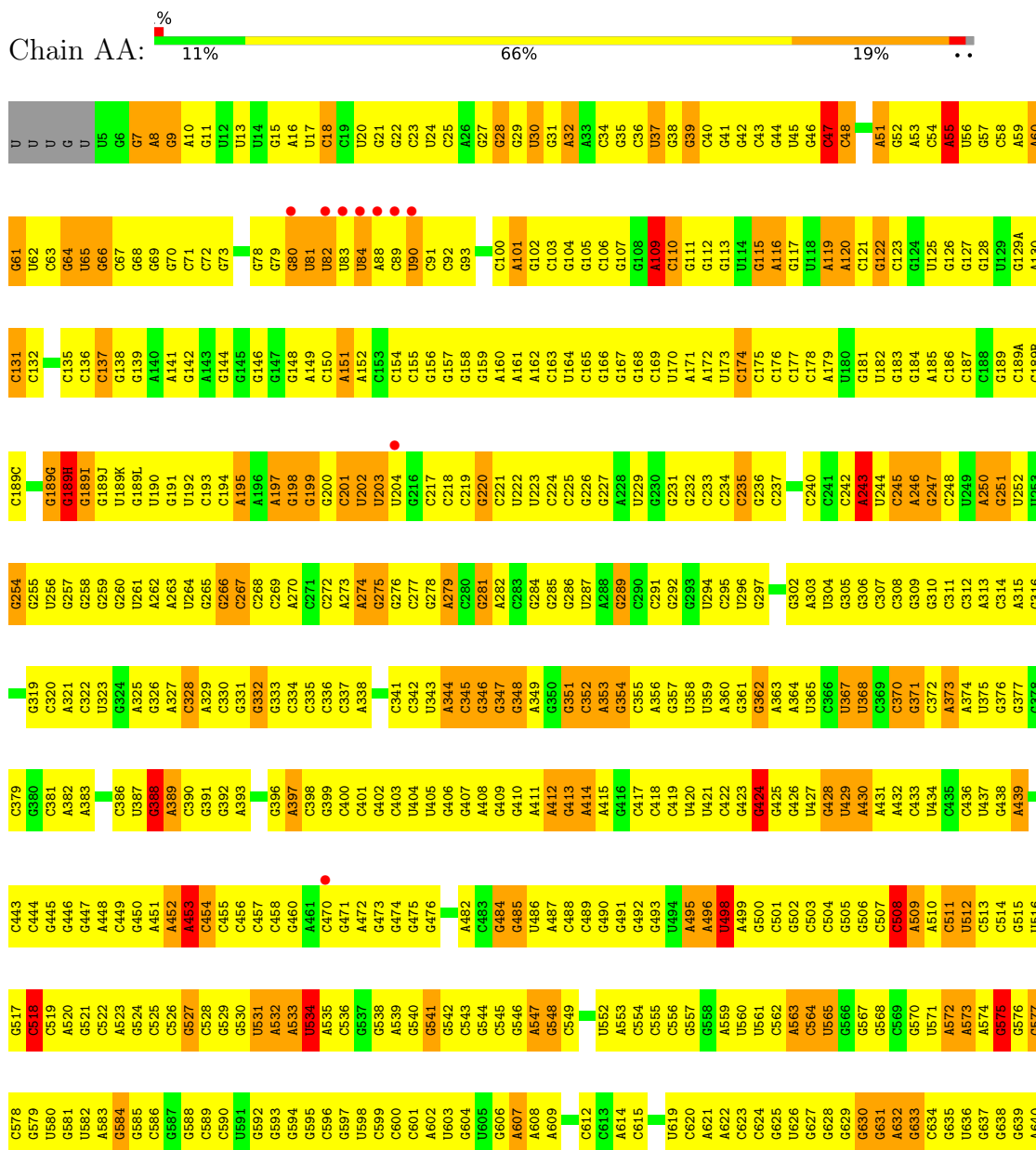


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
			Total	C	N			O
63	AZ	1	57	43	2	12	0	0
63	CZ	1	57	43	2	12	0	0

### 3 Residue-property plots

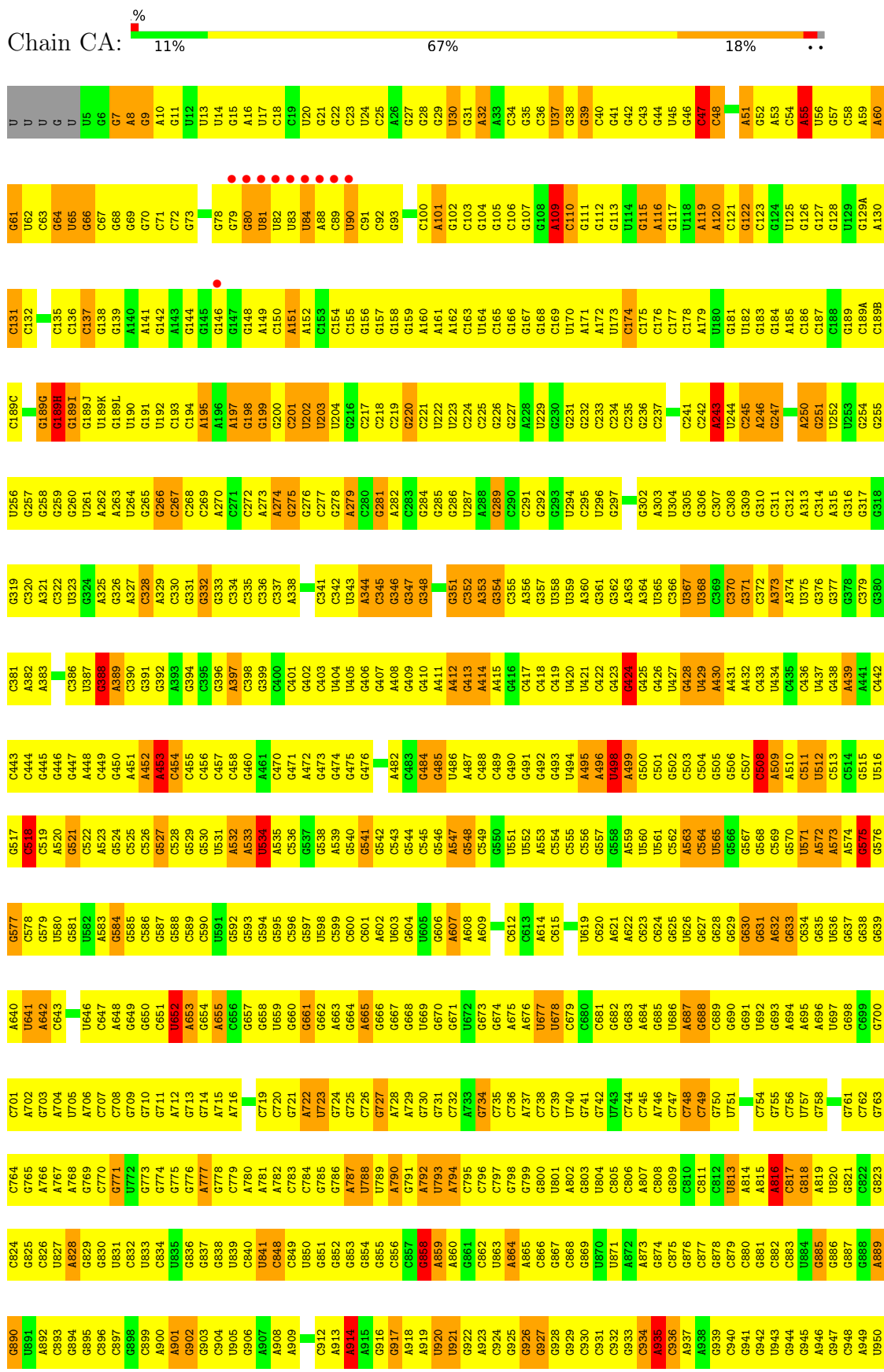
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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 dot above a residue indicates a poor fit to the electron density ( $RSRZ > 2$ ). 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: 16S RIBOSOMAL RNA



A1507	G1441	U1381	C1321	G1253	G1193	C1132	G1072	G1011	G951	A889	G823	G763	A702	U641
G1508	G1442	C1382	C1322	C1284	U1194	G1133	U1073	U1012	U982	G890	C824	C764	G703	A642
C1509	G1442B	C1383	G1285	G1256	U1195	U1134	G1074	G1013	G953	U891	G825	G765	A704	C643
U1510	A1442B	C1384	A1256	U1257	U1196	U1135	G1075	A1014	G954	A892	G826	G766	A705	G643
G1511	G1443	G1385	G1326	G1258	G1197	U1136	C1076	A1015	U955	C893	A828	A767	A706	U646
U1512	C1444	G1386	C1326	G1259	G1198	C1137	U1077	A1016	U956	G894	G829	A768	C707	C647
A1513	C1445	G1387	C1327	C1260	U1199	G1138	U1078	G1017	U957	C895	G830	C769	C708	A648
C1514	U1446	C1388	C1328	C1261	C1200	G1139	G1079	C1018	U960	C896	G831	C770	C709	A649
U1515	A1457	C1389	A1329	A1261	A1201	C1140	A1080	C1019	U961	C897	U831	G771	G710	G650
G1516	G1452	U1390	U1330	C1262	G1203	C1141	A1081	U1020	U962	G898	C832	U772	G711	C651
G1517	G1456	U1391	G1331	C1263	C1204	G1142	G1082	U1021	U963	C899	U833	G773	A712	U652
U1518	G1457	G1392	A1332	A1269	A1204	G1143	U1083	G1024	G964	A900	C834	G774	G713	A653
A1519	U1460	U1393	A1333	C1270	U1205	G1144	G1084	G1024	A964	A901	U835	G775	G714	G654
G1520	G1461	G1394	G1334	G1271	G1206	C1145	U1085	U1025	A965	G902	G836	G776	A715	A655
U1521	G1462	C1395	C1335	G1272	G1207	A1146	U1086	G1026	G966	G903	G837	A777	A716	C656
C1522	G1463	C1396	C1336	G1273	C1208	C1147	G1087	C1027	G967	G904	G838	G778	G717	G657
G1523	C1463	C1397	G1337	G1274	C1209	U1148	G1088	G1027	G968	U905	U839	C779	C719	U658
C1524	G1464	G1398	G1338	G1275	C1210	C1149	G1089	G1030	A969	A908	C840	A780	C720	U659
G1525	C1465	C1399	A1339	U1276	U1211	U1150	U1090	G1030A	C970	A909	U841	A781	G721	G660
U1526	G1466	C1400	C1277	C1277	U1212	A1151	U1091	G1030A	C971	A909	C848	A782	A722	G661
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U1530	G1470	G1404	U1281	U1281	G1215	G1154	G1094	G1033	A975	A914	C851	G785	G725	G664
G1531	G1471	G1405	C1282	C1217	G1216	G1155	U1095	G1034	A976	A915	C852	G786	C726	A665
U	U1472	U1406	G1347	G1283	C1218	A1157	C1097	A1035	G976	A915	G853	A787	G727	G666
C	G1473	C1407	U1348	C1284	U1219	A1158	C1098	C1038	A978	G916	C854	U788	A728	G667
A	G1474	A1408	A1349	A1285	A1220	U1159	G1099	C1039	A979	G917	C855	U789	A729	G668
C	G1475	C1409	A1286	A1286	G1221	G1160	G1099	C1039	A980	A918	C856	A790	G730	U669
C	C1476	G1410	U1351	A1287	A1222	C1161	A1101	U1040	U981	A919	C857	A791	G731	G670
U	C1477	C1411	C1352	A1288	C1223	C1162	A1102	A1041	U982	U920	C858	A792	C732	G671
C	C1478	C1412	C1353	A1289	G1224	C1163	C1103	G1042	U983	U921	C859	U793	A733	U672
C	C1479	A1413	C1354	G1290	A1225	C1164	G1104	A1043	A984	A923	C860	A794	G734	G673
U	G1480	G1414	G1355	G1291	A1226	C1165	G1105	A1044	C985	A924	C862	C796	C735	G674
U	G1481	G1415	G1356	U1292	A1227	C1166	G1106	A1046	A986	G925	C863	C797	C736	A675
C	A1482	G1416	A1357	G1293	C1228	C1167	C1107	G1047	G987	G926	U864	G798	A737	A676
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U	C1484	A1418	C1359	C1298	C1230	A1170	C1109	U1049	C989	G928	C866	G800	A740	U678
U	G1485	G1419	A1360	A1299	G1231	A1171	A1110	G1050	C990	G929	C867	A801	G741	C679
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C	G1488	G1422	C1363	U1302	C1234	G1174	C1113	G1053	G993	C932	U870	U804	C744	G682
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C	C1490	C1424	G1364	G1304	A1236	A1176	C1115	A1055	C995	G934	U872	C806	A746	A684
C	G1491	U1425	G1365	G1305	C1237	G1177	C1116	U1056	A996	A935	A873	A807	C747	U686
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C	A1493	U1427	C1367	U1307	A1239	A1179	C1118	G1058	G998	A937	C875	C809	C749	C688
C	G1494	A1428	G1368	U1308	U1240	A1180	C1119	C1059	C999	A938	C876	G810	G750	C689
C	U1495	C1429	C1369	G1309	G1241	G1181	G1120	C1060	U1000	G939	C877	C811	C751	G690
C	C1496	C1430	G1370	G1310	C1242	G1182	U1121	G1061	A1001	C940	C878	C812	G752	G691
C	G1497	C1431	G1371	G1311	C1243	A1183	U1122	U1062	G1001A	G941	C879	U813	A753	U692
C	U1498	G1432	U1372	G1312	C1244	G1184	A1123	C1063	G1002	G942	C880	A814	C754	G693
C	A1499	A1433	G1373	U1313	A1245	G1185	G1124	G1064	U1003	U943	C881	A815	G755	A694
C	A1500	C1434	A1374	C1314	C1246	G1186	U1125	U1065	A1004	G944	C882	A816	C756	A695
C	C1501	G1435	A1375	U1315	U1247	G1187	U1126	C1066	A1005	G945	C883	C817	G757	A696
C	A1502	U1436	U1376	G1316	A1248	G1188	U1127	A1067	C1006	G946	U884	C818	G758	U697
C	A1503	C1437	A1377	C1317	C1249	C1189	C1128	A1067	C1007	G947	C885	A819	A759	G698
C	G1504	G1438	C1378	A1318	A1250	G1190	C1129	G1068	U1008	C948	C886	U820	G760	C699
C	U1505	C1439	A1319	A1191	A1251	G1191	C1130	C1069	G1009	A949	C887	G821	G761	G700
C	U1506	C1440	C1320	A1252	A1252	C1192	G1131	C1071	G1010	U950	C888	C822	C762	C701

● Molecule 1: 16S RIBOSOMAL RNA

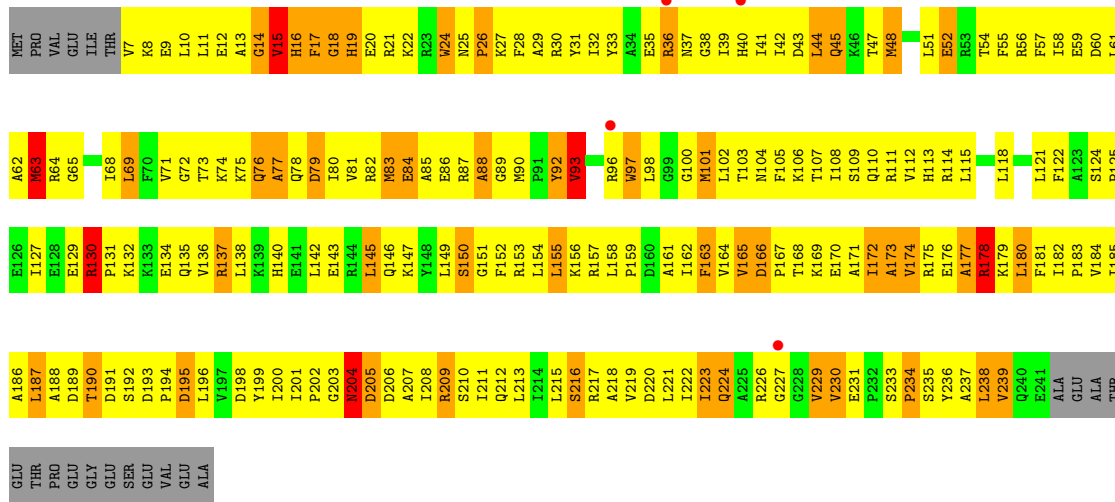
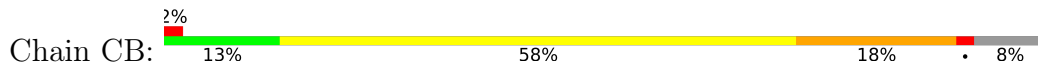




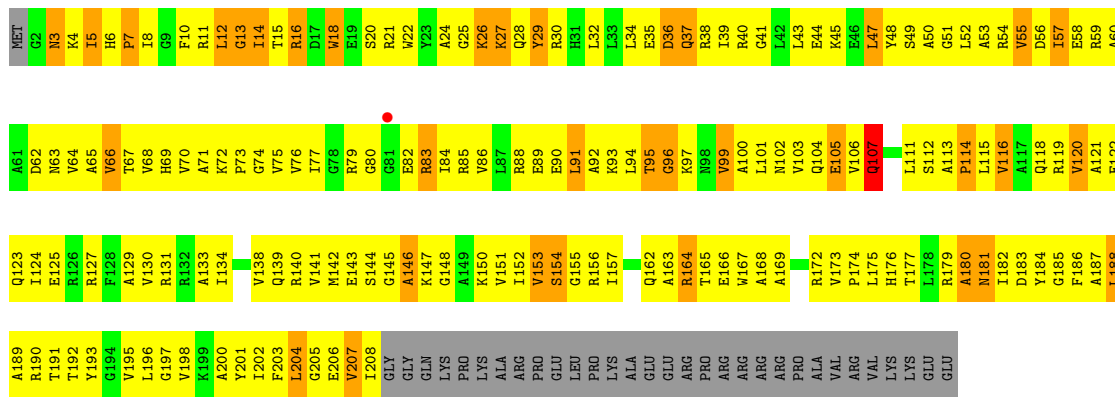
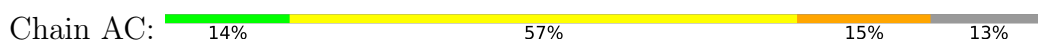


THR  
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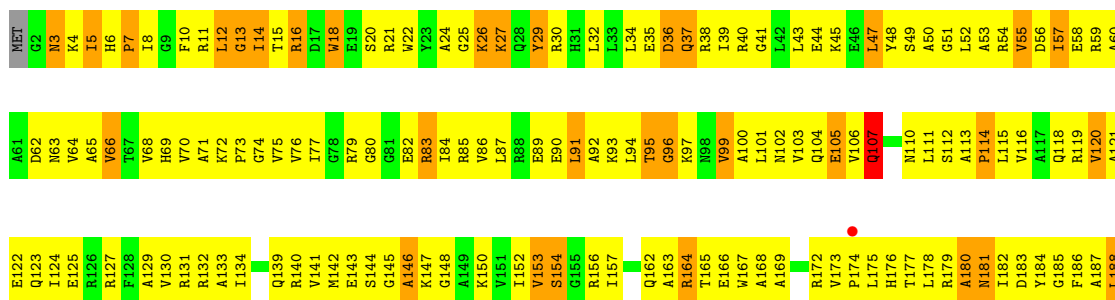
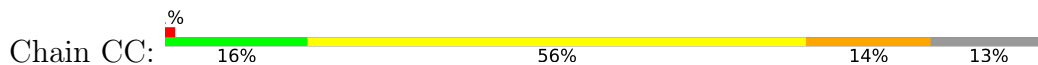
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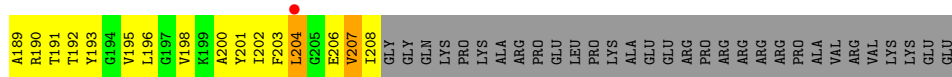


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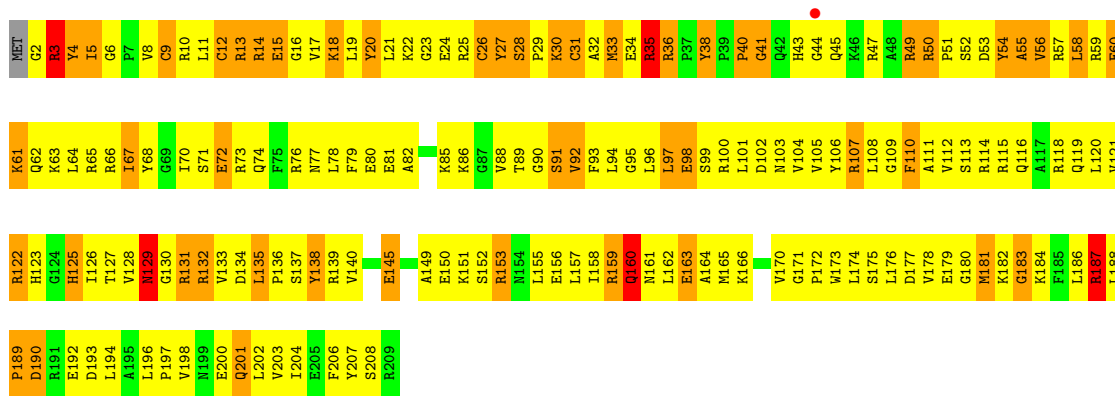
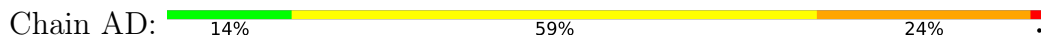


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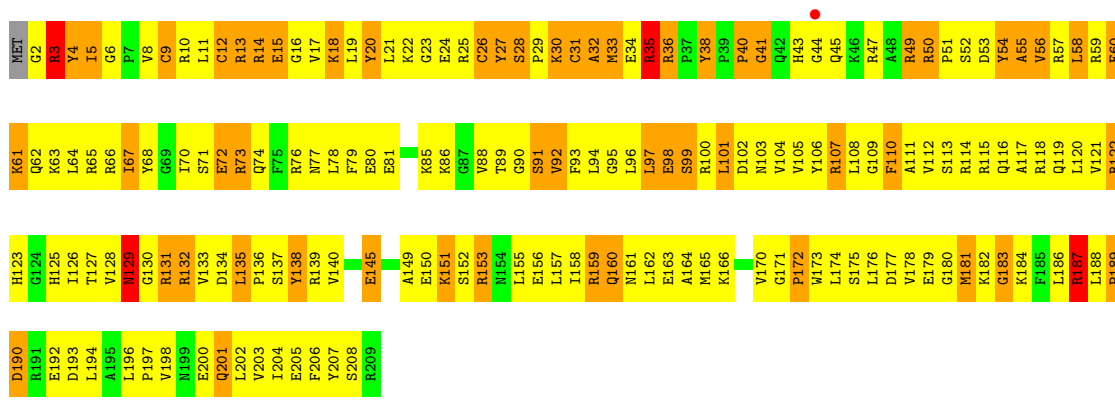
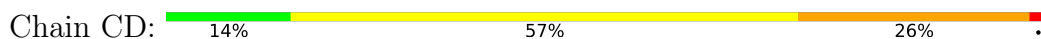




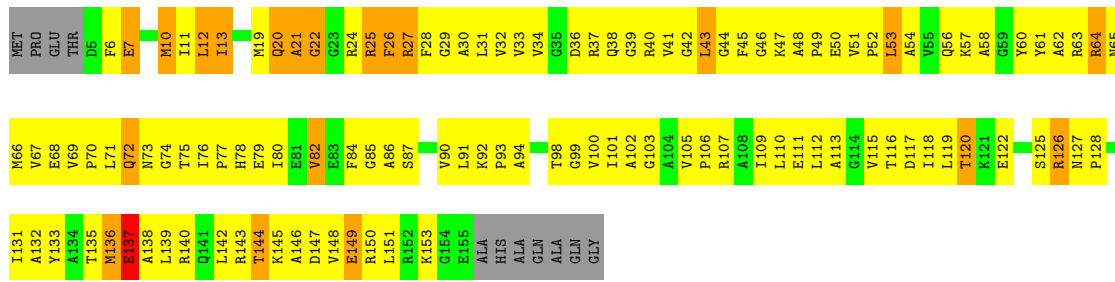
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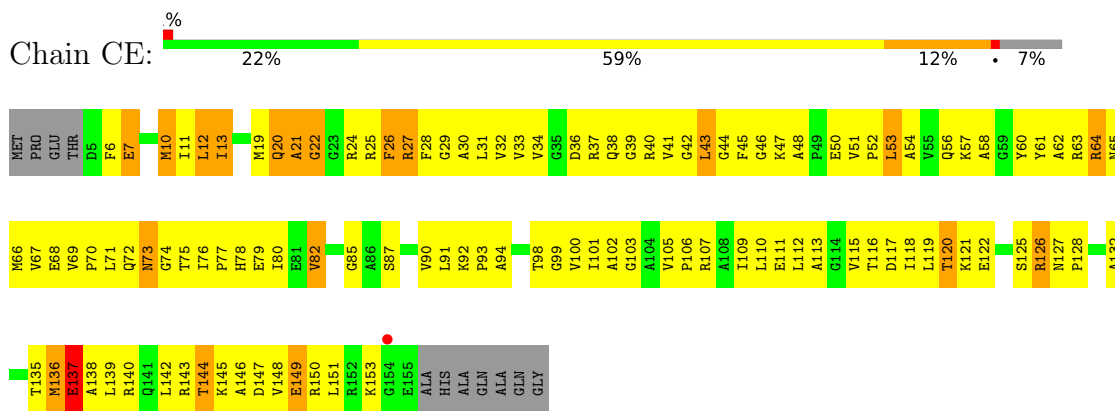
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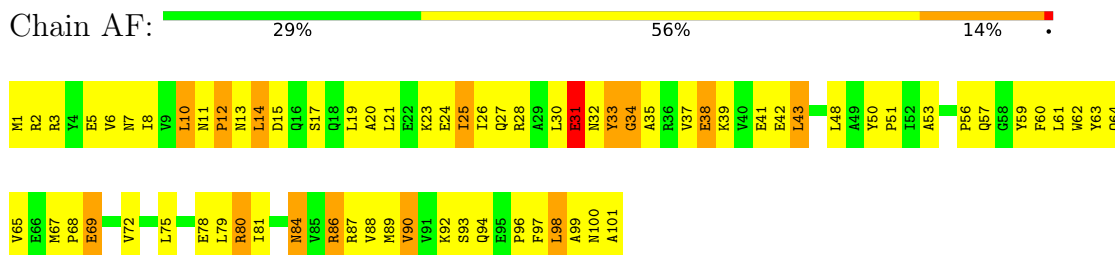
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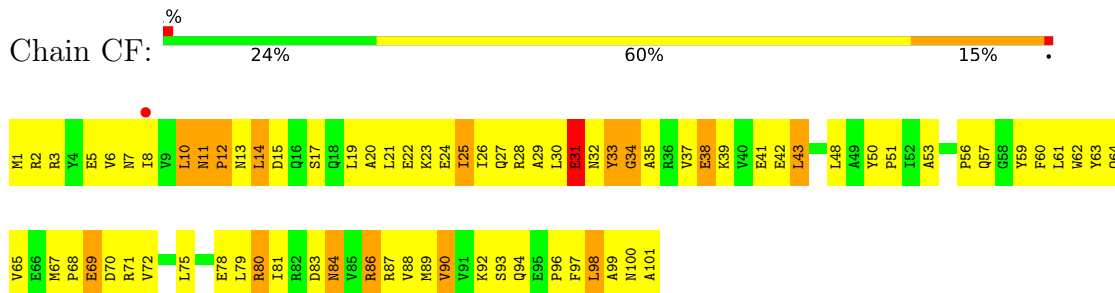
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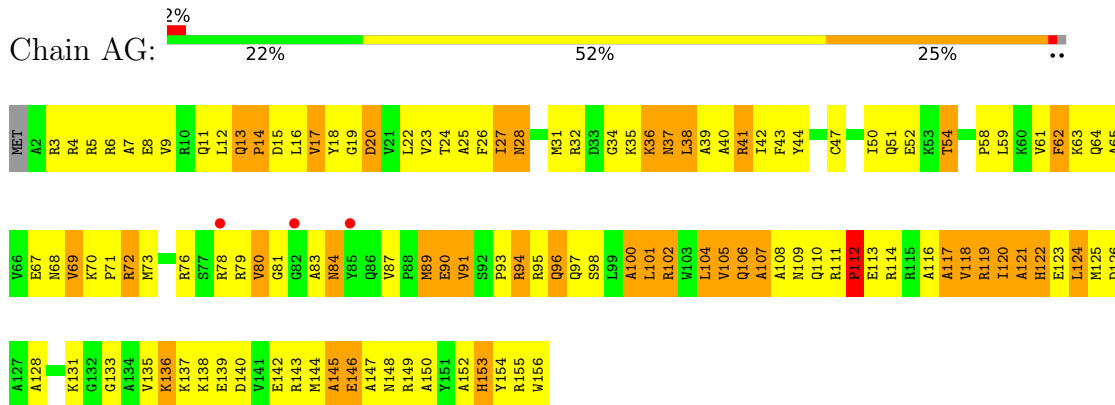
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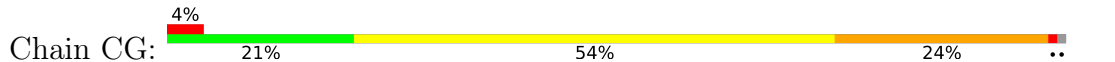
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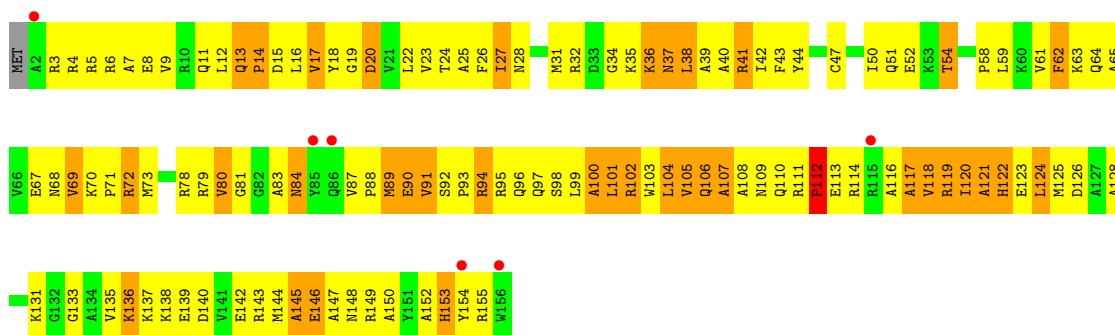


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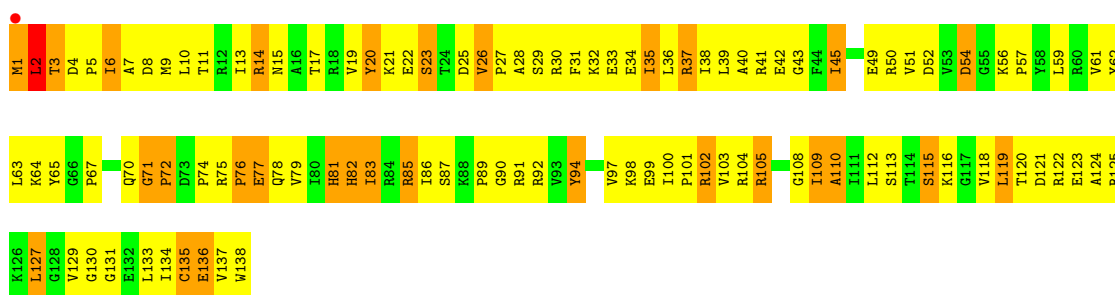


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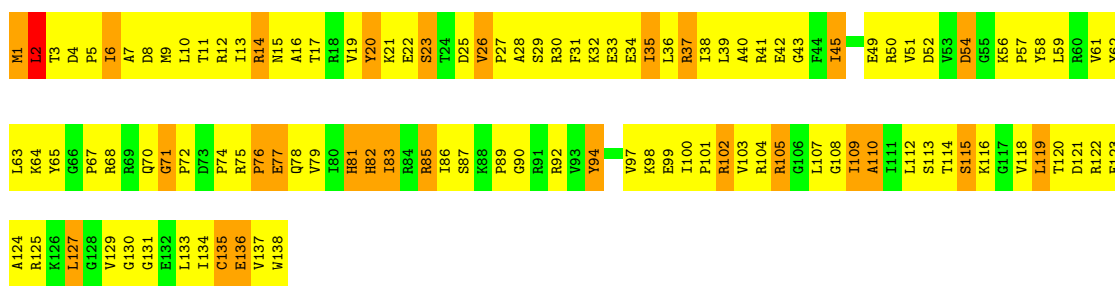




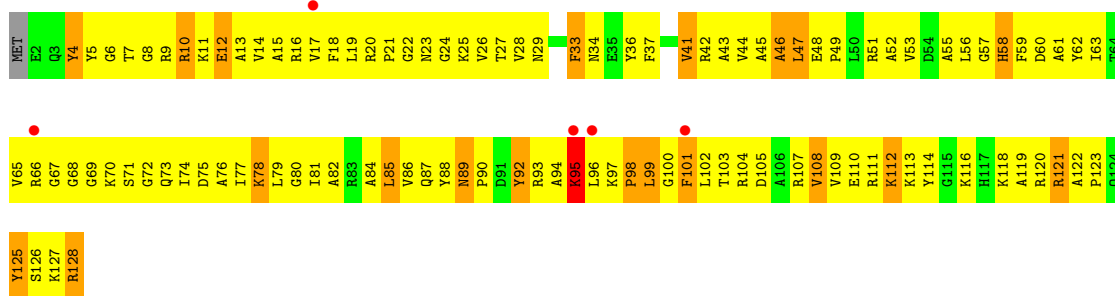
• Molecule 8: 30S RIBOSOMAL PROTEIN S8



• Molecule 8: 30S RIBOSOMAL PROTEIN S8



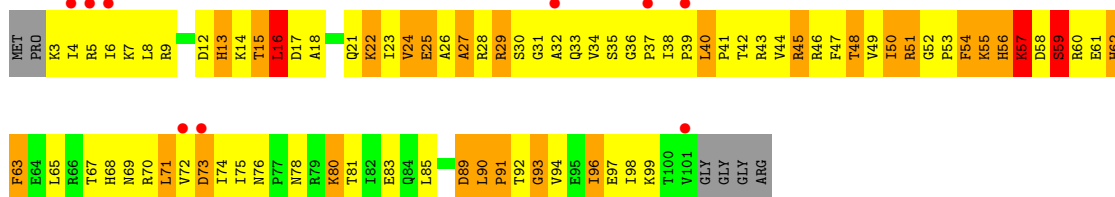
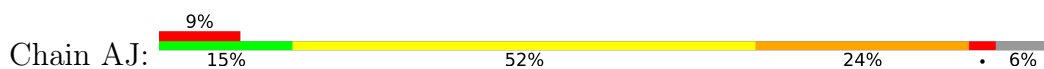
• Molecule 9: 30S RIBOSOMAL PROTEIN S9



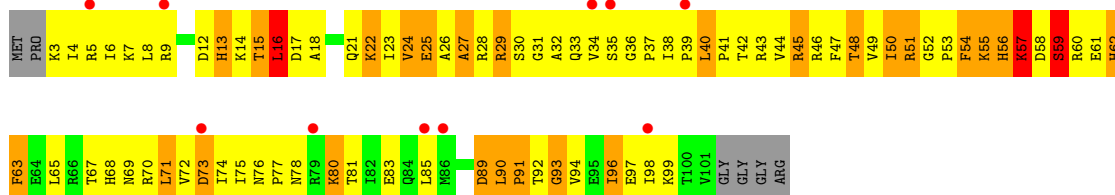
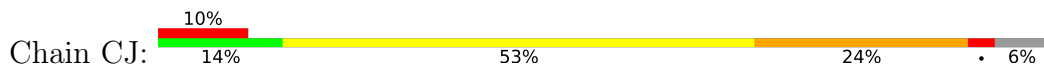
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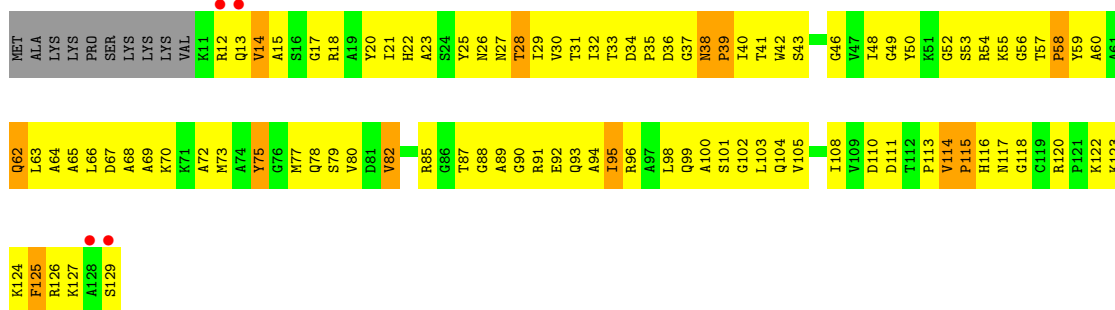
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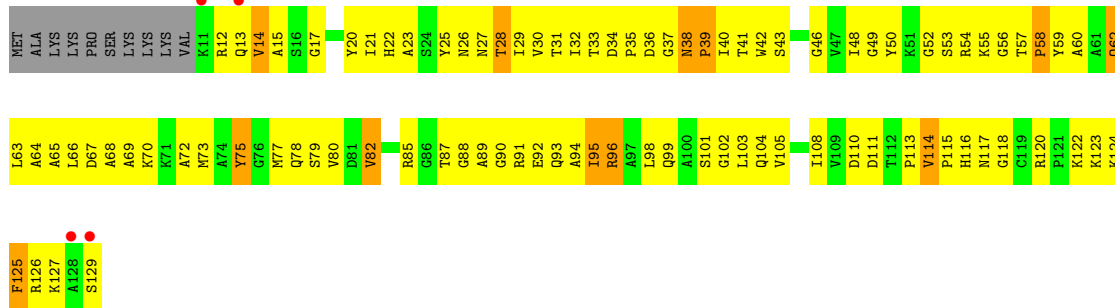
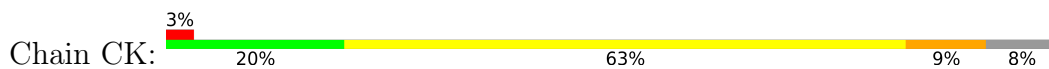
- Molecule 10: 30S RIBOSOMAL PROTEIN S10



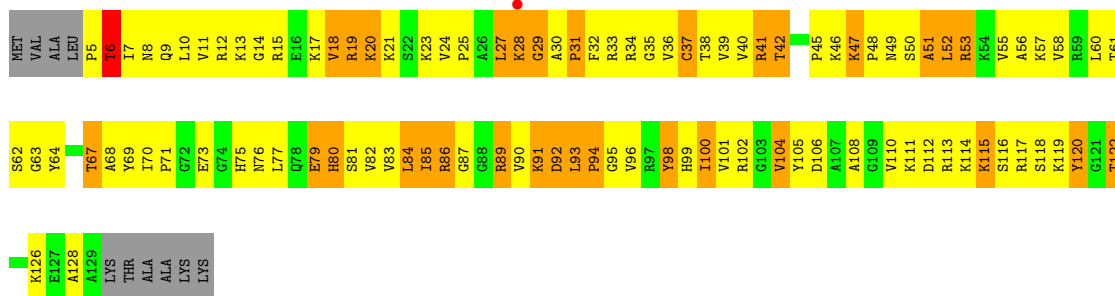
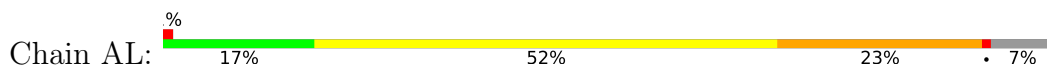
- Molecule 11: 30S RIBOSOMAL PROTEIN S11



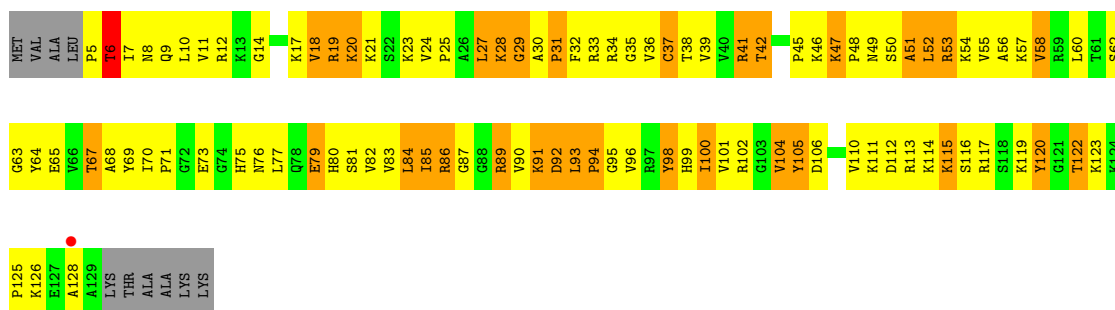
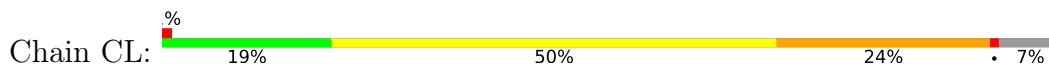
- Molecule 11: 30S RIBOSOMAL PROTEIN S11



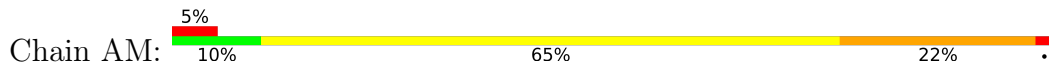
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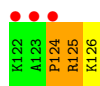


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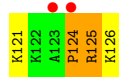
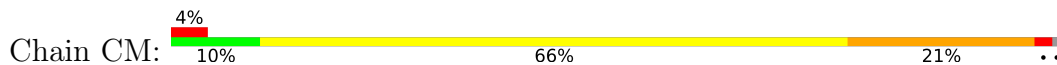


- Molecule 13: 30S RIBOSOMAL PROTEIN S13

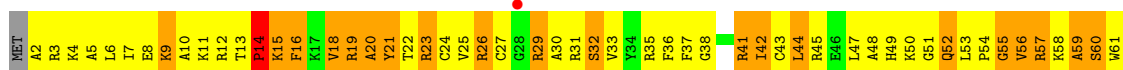
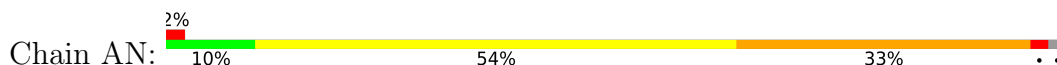




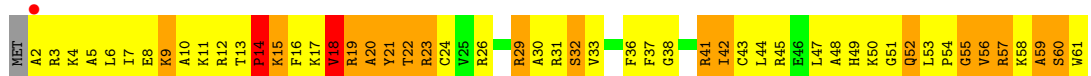
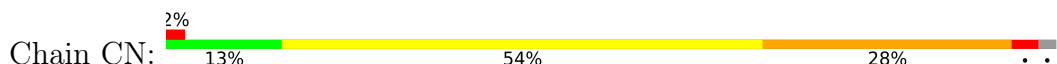
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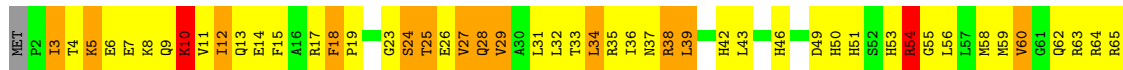
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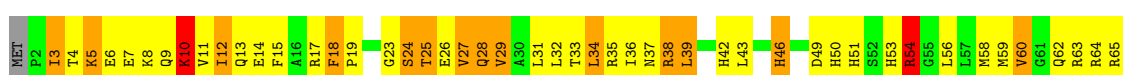
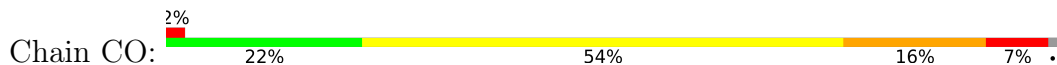
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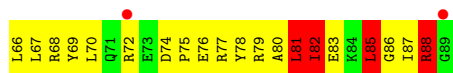
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



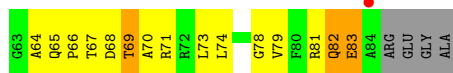
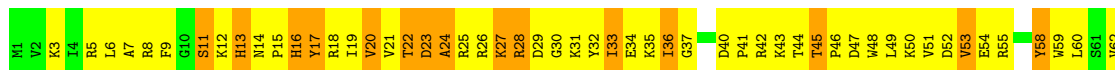
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



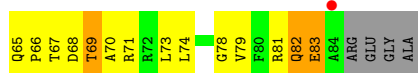
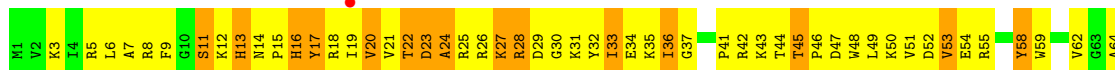




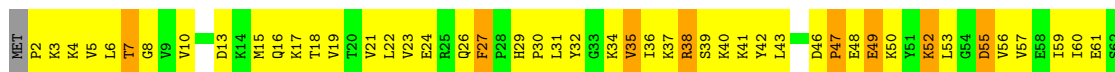
• Molecule 16: 30S RIBOSOMAL PROTEIN S16



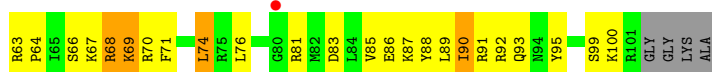
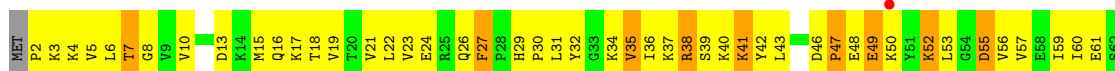
• Molecule 16: 30S RIBOSOMAL PROTEIN S16



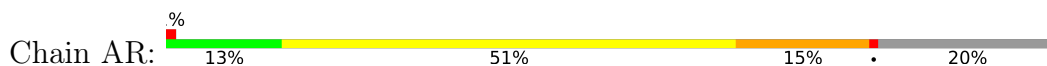
• Molecule 17: 30S RIBOSOMAL PROTEIN S17

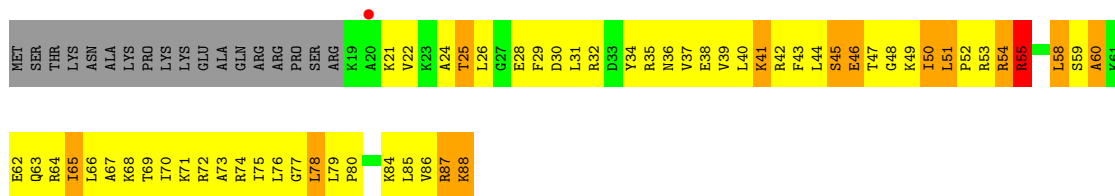


• Molecule 17: 30S RIBOSOMAL PROTEIN S17

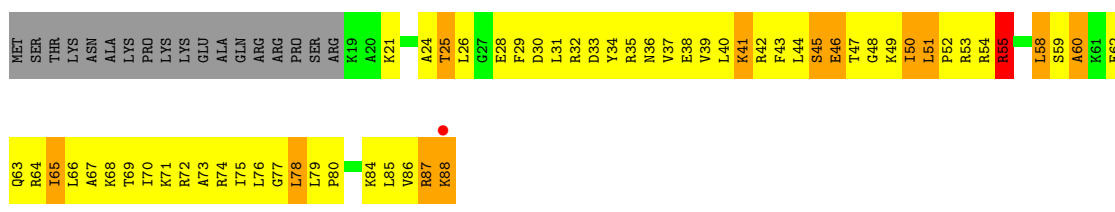
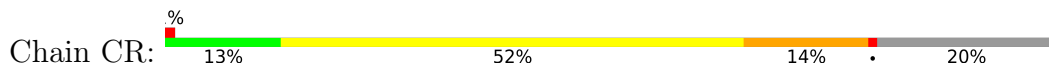


• Molecule 18: 30S RIBOSOMAL PROTEIN S18

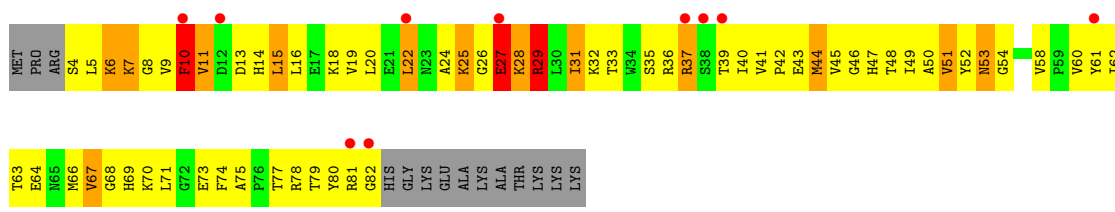
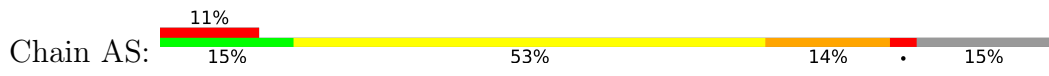




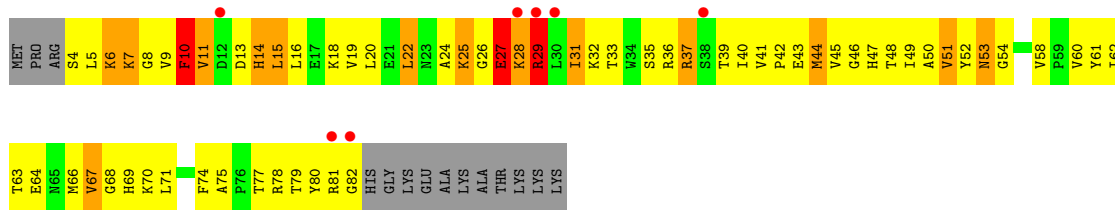
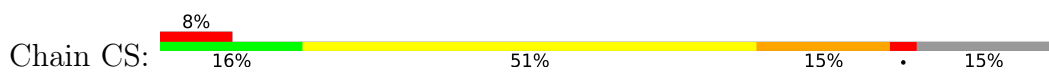
• Molecule 18: 30S RIBOSOMAL PROTEIN S18



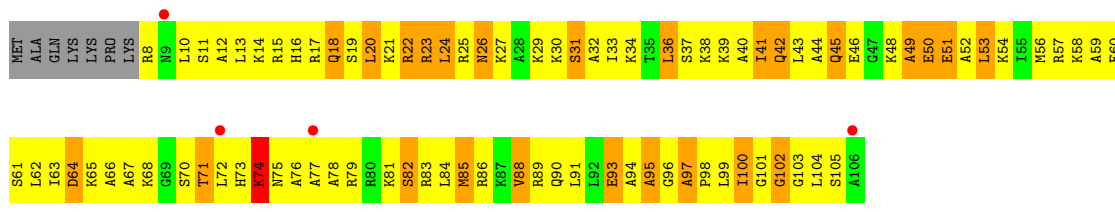
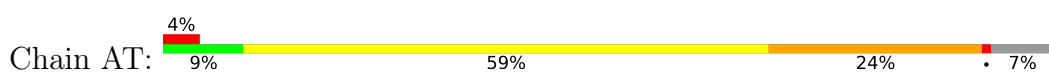
• Molecule 19: 30S RIBOSOMAL PROTEIN S19



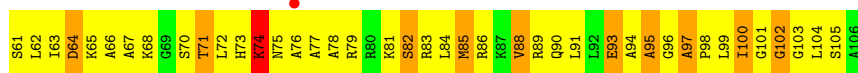
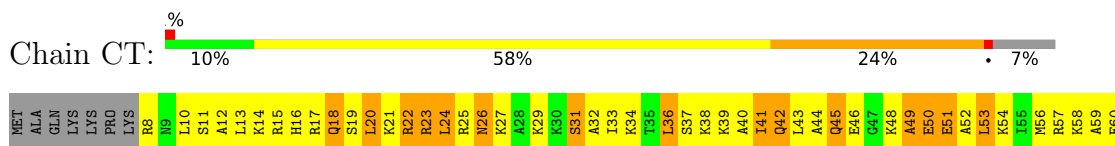
• Molecule 19: 30S RIBOSOMAL PROTEIN S19



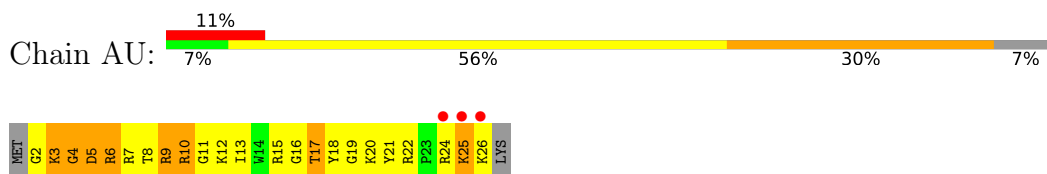
• Molecule 20: 30S RIBOSOMAL PROTEIN S20



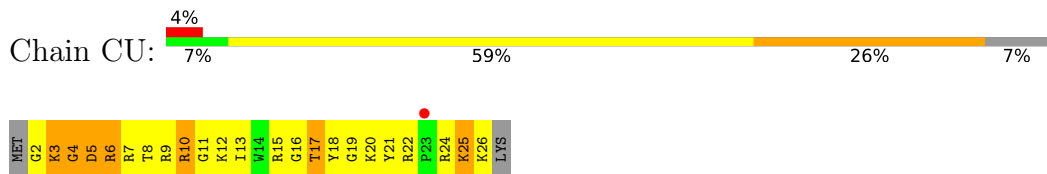
• Molecule 20: 30S RIBOSOMAL PROTEIN S20



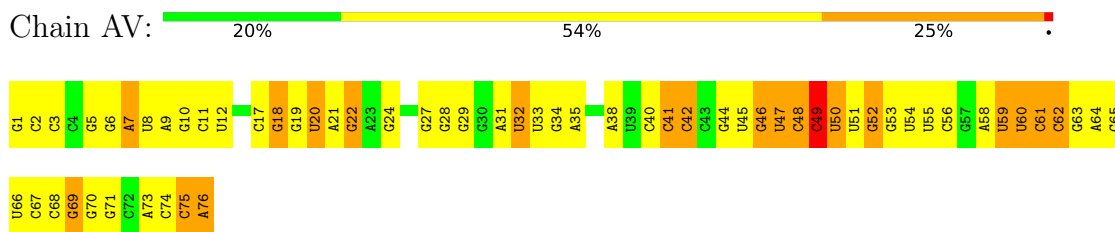
- Molecule 21: 30S RIBOSOMAL PROTEIN THX



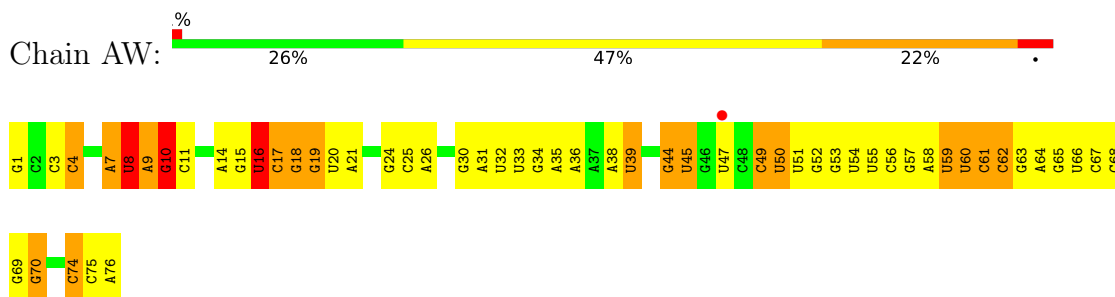
- Molecule 21: 30S RIBOSOMAL PROTEIN THX



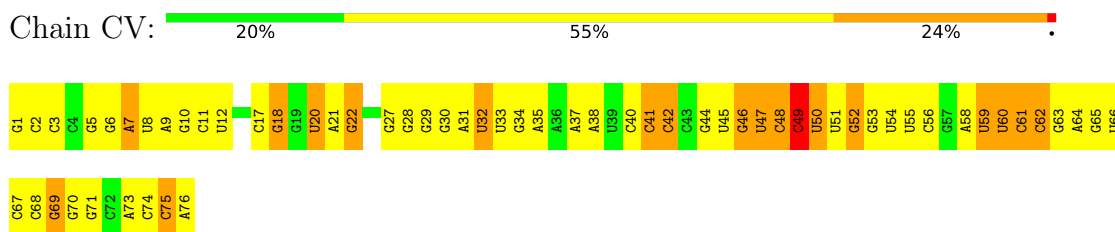
- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE



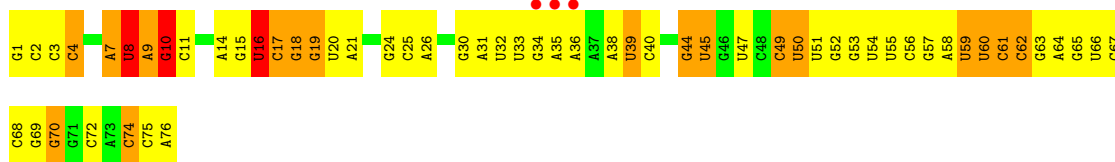
- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE



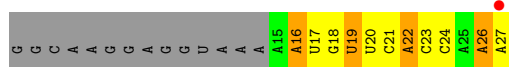
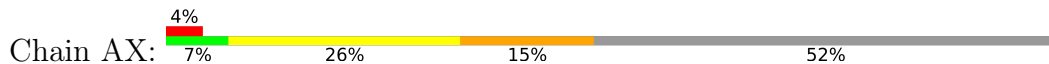
- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE



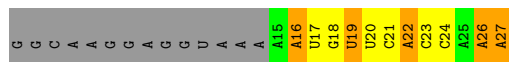
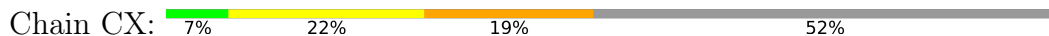
• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE



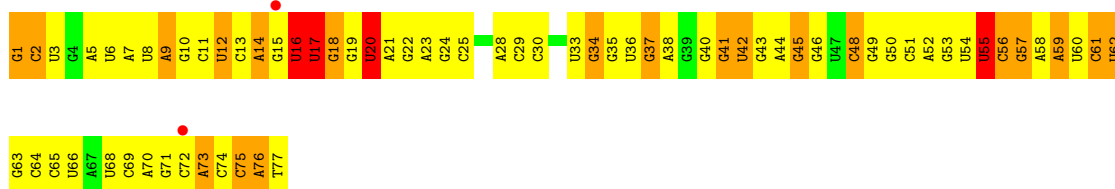
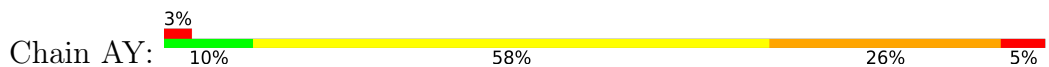
• Molecule 23: MRNA



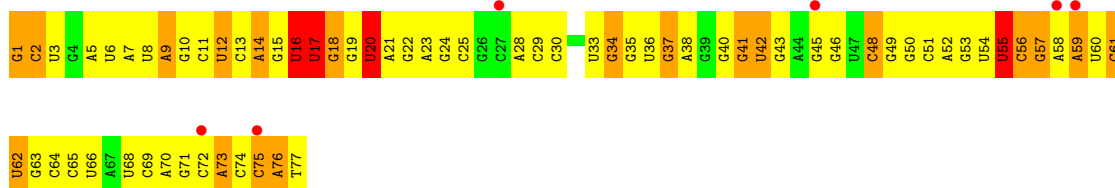
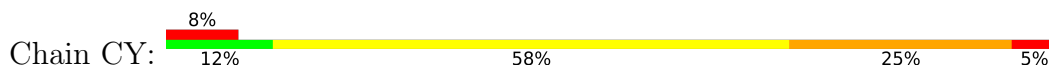
• Molecule 23: MRNA



• Molecule 24: A-SITE TRNA THR

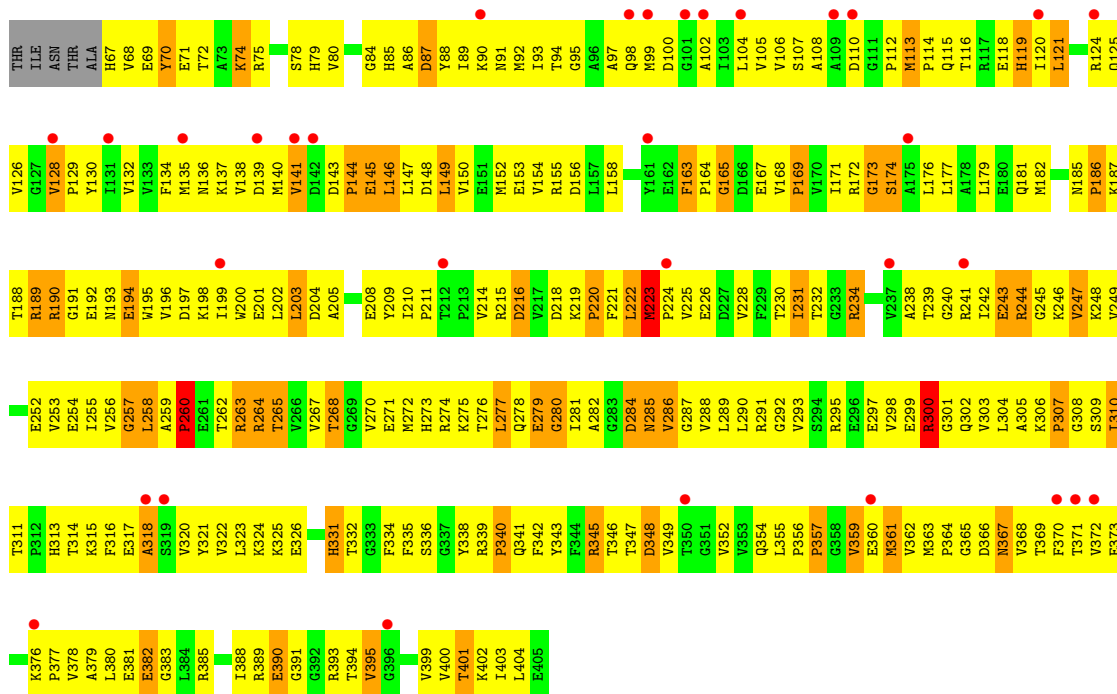


• Molecule 24: A-SITE TRNA THR

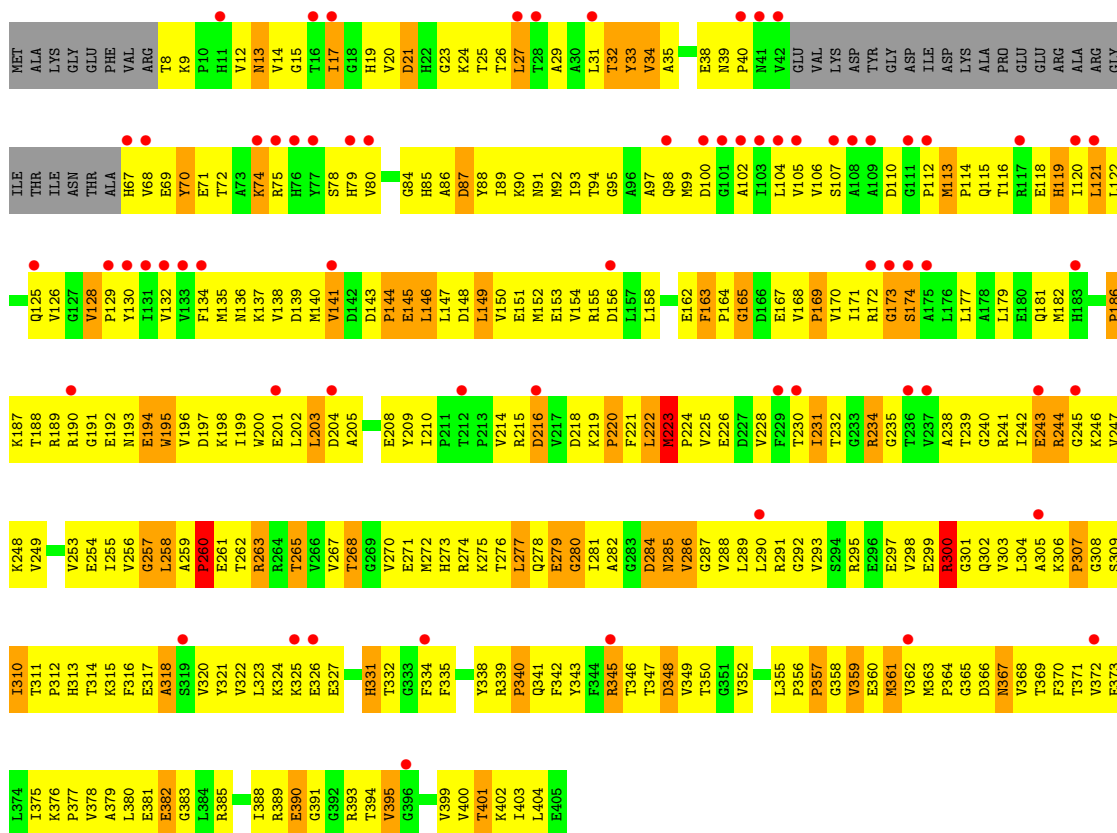


• Molecule 25: ELONGATION FACTOR TU-A

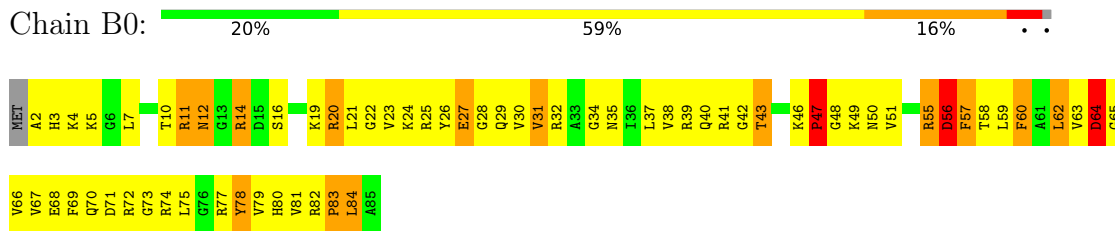




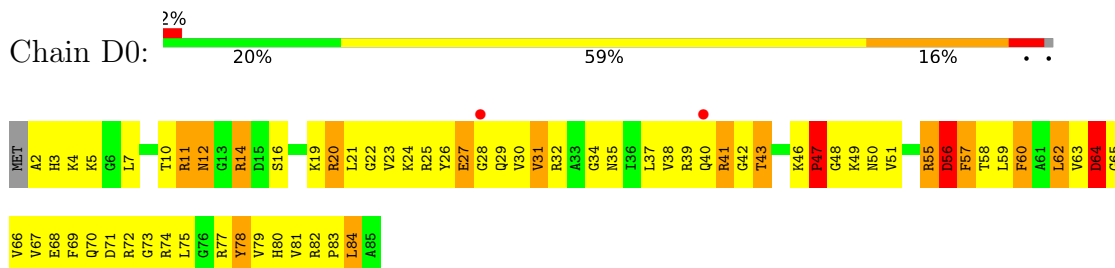
• Molecule 25: ELONGATION FACTOR TU-A



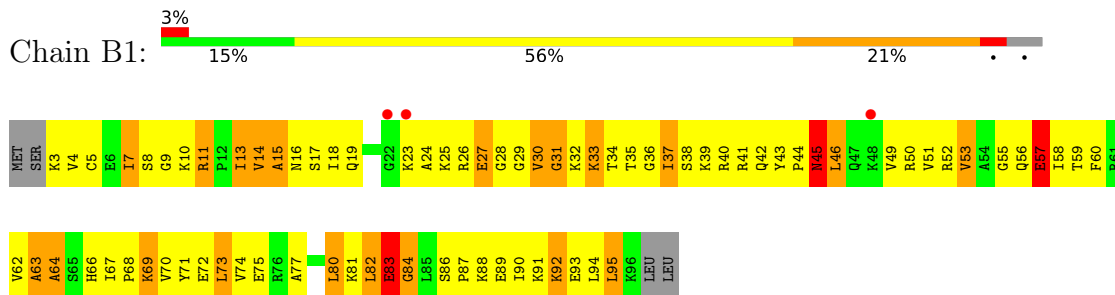
• Molecule 26: 50S RIBOSOMAL PROTEIN L27



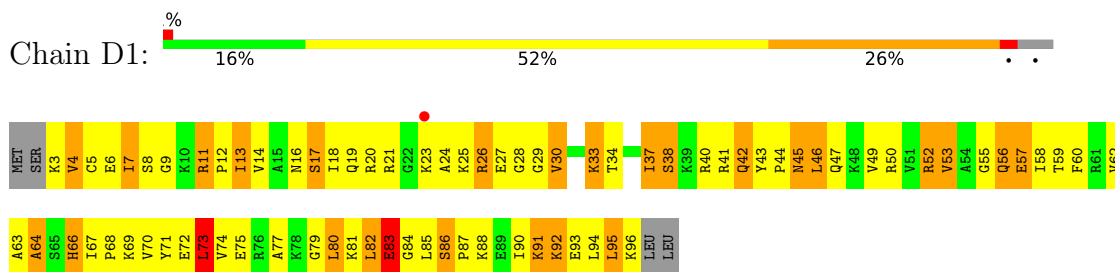
- Molecule 26: 50S RIBOSOMAL PROTEIN L27



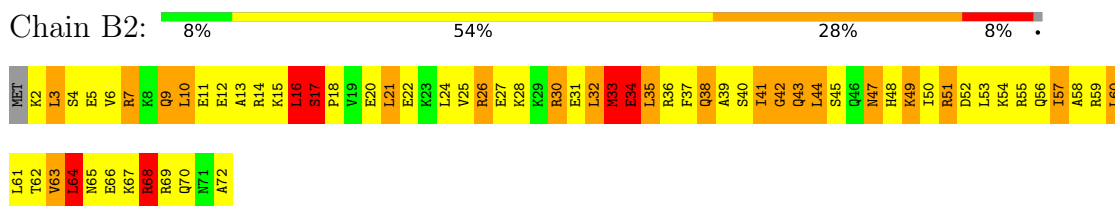
- Molecule 27: 50S RIBOSOMAL PROTEIN L28



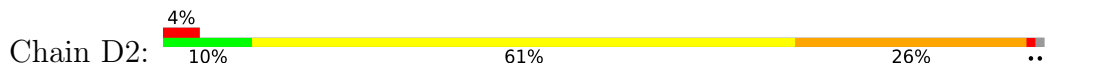
- Molecule 27: 50S RIBOSOMAL PROTEIN L28



- Molecule 28: 50S RIBOSOMAL PROTEIN L29

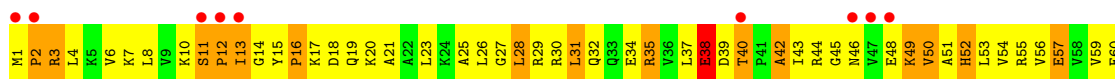
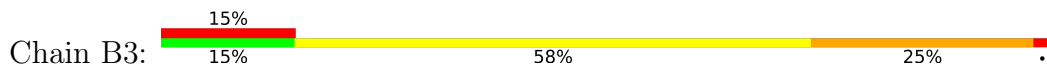


- Molecule 28: 50S RIBOSOMAL PROTEIN L29

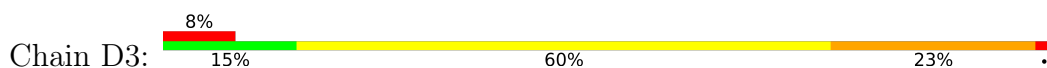




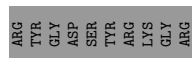
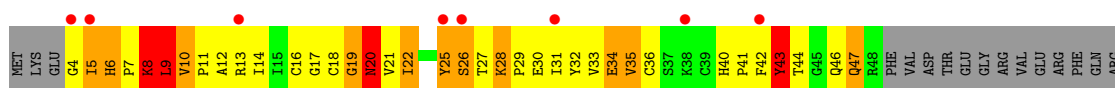
• Molecule 29: 50S RIBOSOMAL PROTEIN L30



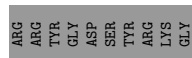
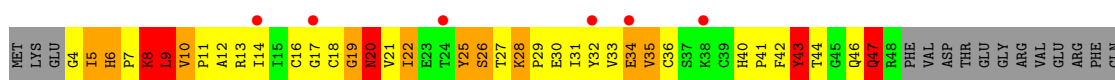
• Molecule 29: 50S RIBOSOMAL PROTEIN L30



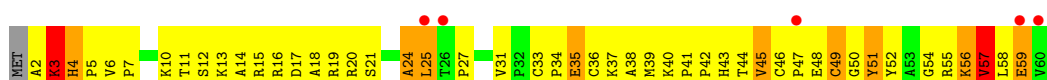
• Molecule 30: 50S RIBOSOMAL PROTEIN L31



• Molecule 30: 50S RIBOSOMAL PROTEIN L31

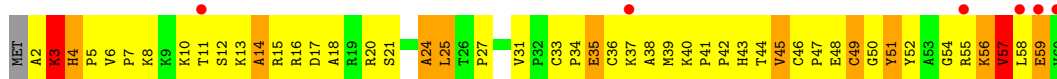


• Molecule 31: 50S RIBOSOMAL PROTEIN L32

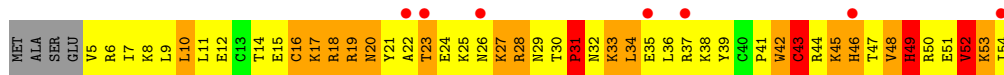


• Molecule 31: 50S RIBOSOMAL PROTEIN L32

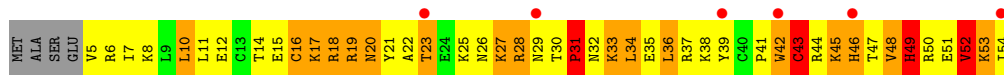




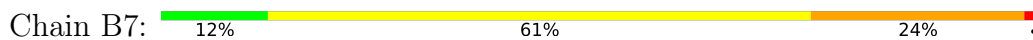
• Molecule 32: 50S RIBOSOMAL PROTEIN L33



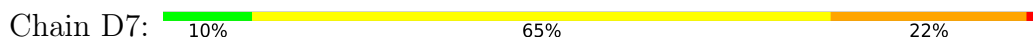
• Molecule 32: 50S RIBOSOMAL PROTEIN L33



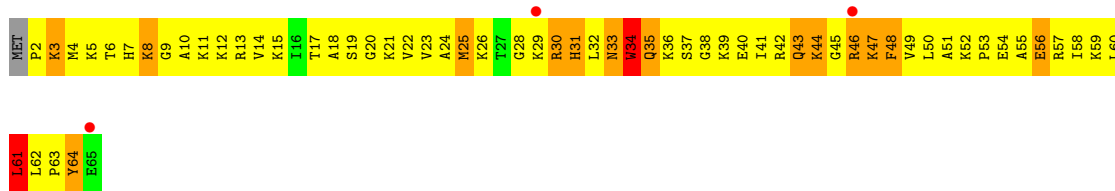
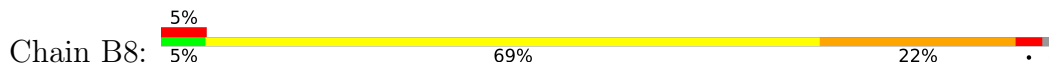
• Molecule 33: 50S RIBOSOMAL PROTEIN L34



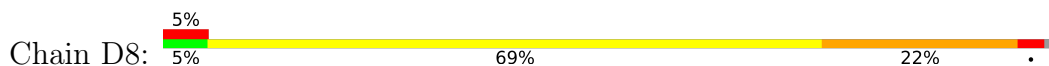
• Molecule 33: 50S RIBOSOMAL PROTEIN L34



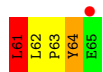
• Molecule 34: 50S RIBOSOMAL PROTEIN L35



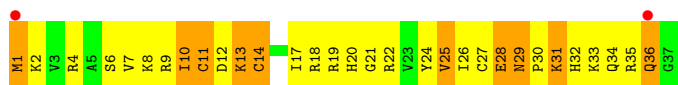
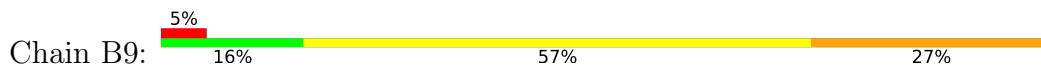
• Molecule 34: 50S RIBOSOMAL PROTEIN L35



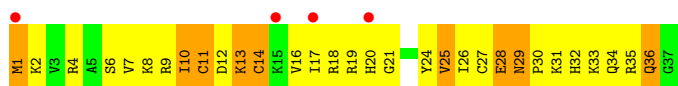
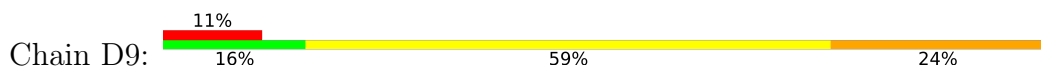




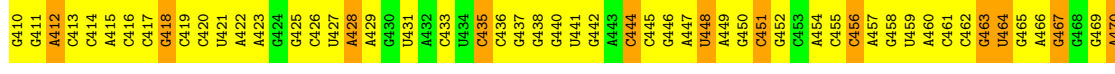
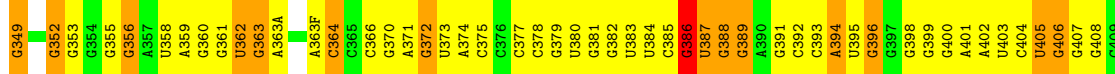
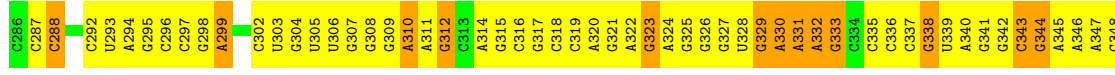
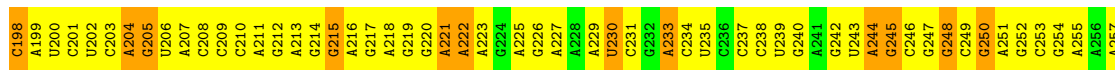
● Molecule 35: 50S RIBOSOMAL PROTEIN L36



● Molecule 35: 50S RIBOSOMAL PROTEIN L36

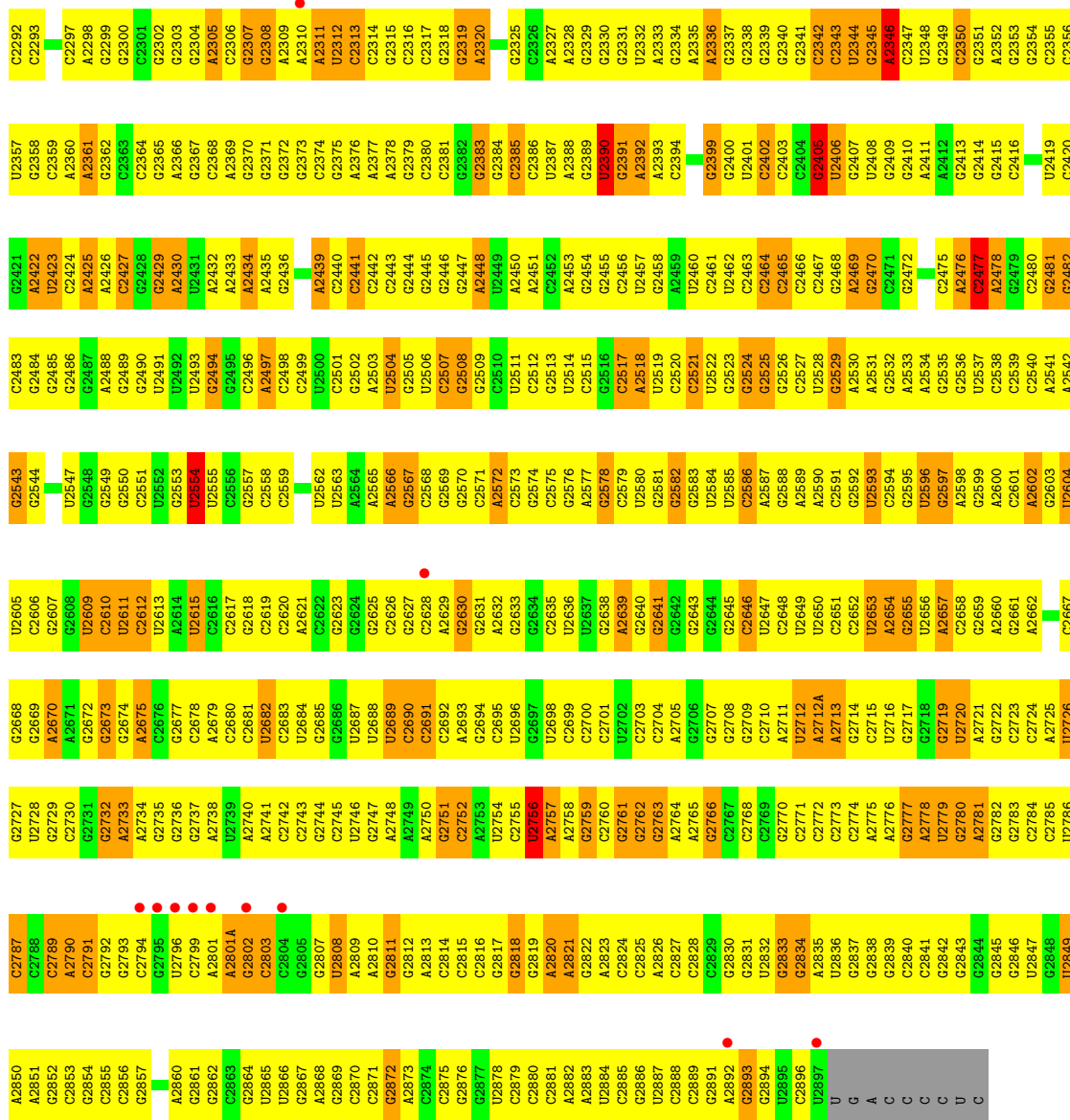


● Molecule 36: 23S RIBOSOMAL RNA

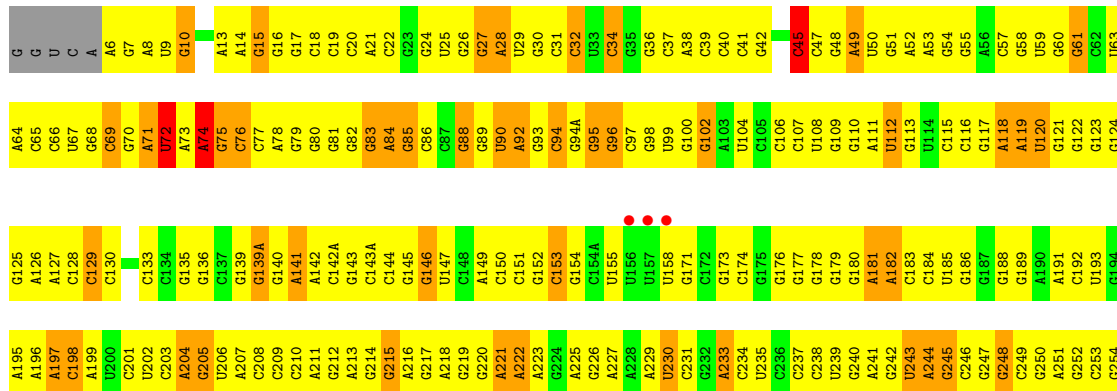
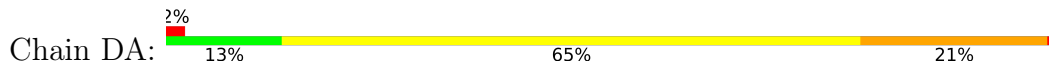




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G2180	G2161	G2162	G2163	G2164	G2165	G2166	G2167	G2168	A2169	G2240	A2171	G2172	A2173	G2174	G2175	G2176	G2177	G2178	G2179	G2180	G2181	G2182	G2183	G2184	G2185	G2186	G2187	G2188	G2189	G2190	G2191	G2192	G2193	G2194	G2195	G2196	G2197	G2198	G2199	G2200	G2201	G2202	U2203	G2205	G2206	G2207	G2208	G2209	G2210	G2211	G2212	G2213	G2214	G2215	G2216	G2217	G2218	G2219	G2220	G2221	G2222	G2223	G2224	A2225	G2226	G2227	G2228	G2229	G2230									
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G1970	A1971	A1972	G1973	G1974	G1975	A1976	A1977	A1978	G1979	G1980	A1981	G1982	G1983	G1984	G1985	A1986	G1987	G1988	G1989	G1990	G1991	G1992	G1993	G1994	G1995	G1996	G1997	G1998	G1999	G2000	A2001	G2002	G2003	G2004	G2005	G2006	G2007	G2008	G2009	G2010	U2011	G2012	G2013	G2014	G2015	G2016	U2017	G2018	A2019	A2020	G2021	G2022	G2023	G2024	G2025	G2026	G2027	G2028	G2029	G2030	A2031	G2032	A2033	U2034	G2035													
G1907	G1908	G1909	G1910	U1911	U1912	A1913	A1914	U1915	G1916	U1917	A1918	A1919	G1920	G1921	G1922	U1923	G1924	G1925	U1926	A1927	G1928	G1929	A1930	U1931	A1932	G1933	G1934	G1935	U1936	A1937	A1938	U1939	U1940	U1941	U1942	U1943	U1944	U1945	U1946	U1947	G1948	G1949	G1950	A1953	G1954	U1955	U1956	G1957	G1958	G1959	G1960	G1961	G1962	G1963	G1964	G1965	A1966	G1967	G1968	A1969																		
C1836	C1837	C1838	C1839	G1840	U1841	G1842	C1843	C1844	G1845	A1846	A1847	A1848	G1849	G1850	U1851	G1852	A1853	A1854	G1855	G1856	G1857	G1858	G1859	A1860	G1861	G1862	G1863	G1864	U1865	U1866	A1867	U1868	C1869	C1870	C1871	C1872	C1873	C1874	C1875	C1876	C1877	C1878	C1879	C1880	C1881	C1882	G1883	A1884	A1885	C1886	C1887	G1888	A1889	A1890	G1891	G1892	G1893	A1894	A1895	A1896	A1897	A1898	A1899	A1900	A1901	G1902	G1903	G1904	G1905									
G1776	U1777	U1778	U1779	A1780	G1781	C1782	A1783	A1784	A1785	A1786	A1787	C1788	A1789	C1790	A1791	G1792	G1793	U1794	G1795	U1796	C1797	U1798	U1799	A1800	G1801	A1802	G1803	G1804	G1805	U1806	A1807	U1808	U1809	G1810	G1811	G1812	G1813	G1814	A1815	G1816	G1817	U1818	A1819	U1820	A1821	G1822	G1823	G1824	A1825	G1826	G1827	G1828	G1829	A1830	G1831	G1832	U1833	U1834	U1835																			
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A1572	G1573	C1574	C1575	G1576	A1577	U1578	A1579	A1580	C1581	G1582	A1583	A1584	A1585	U1586	A1587	U1588	G1589	A1590	G1591	G1592	G1593	G1594	A1595	A1596	A1597	C1598	C1599	C1600	U1601	U1602	A1603	G1604	G1605	C1606	C1607	A1608	A1609	C1610	C1611	C1612	G1613	G1614	C1615	A1616	C1617	C1618	C1619	U1620	G1621	G1622	G1623	G1624	C1625	G1626	C1627	G1628	U1629	G1630	A1631	G1632	A1633	G1634	G1635	C1636														
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A1446	G1447	G1448	A1449	G1450	G1450A	A1451	A1452	A1453	G1454	G1455	G1456	G1457	G1458	G1459	A1460	G1461	G1462	G1463	G1464	G1465	G1466	G1467	G1468	A1469	G1470	A1471	A1472	G1473	G1474	G1475	G1476	A1477	G1478	G1479	G1480	G1481	G1482	G1483	G1484	G1485	A1486	G1487	G1488	U1489	A1490	G1491	G1492	C1493	A1494	A1495	U1496	U1497	G1498	G1499	G1500	C1501	A1439	C1502	U1503	G1441	G1442	A1445	C1445A															



• Molecule 36: 23S RIBOSOMAL RNA

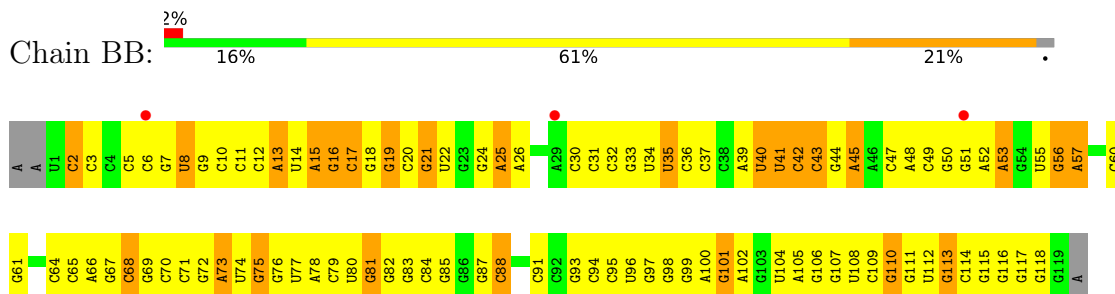




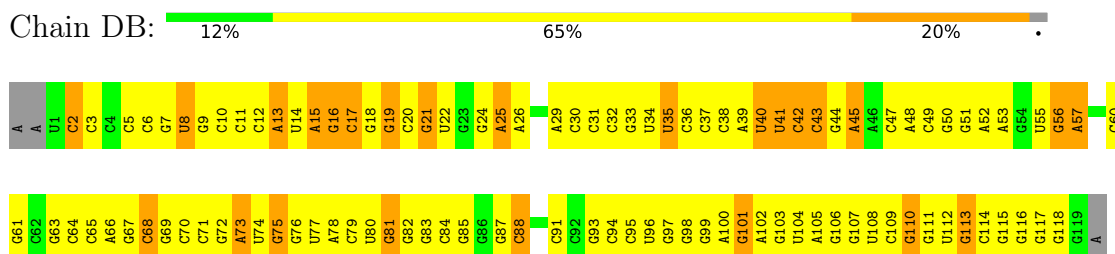




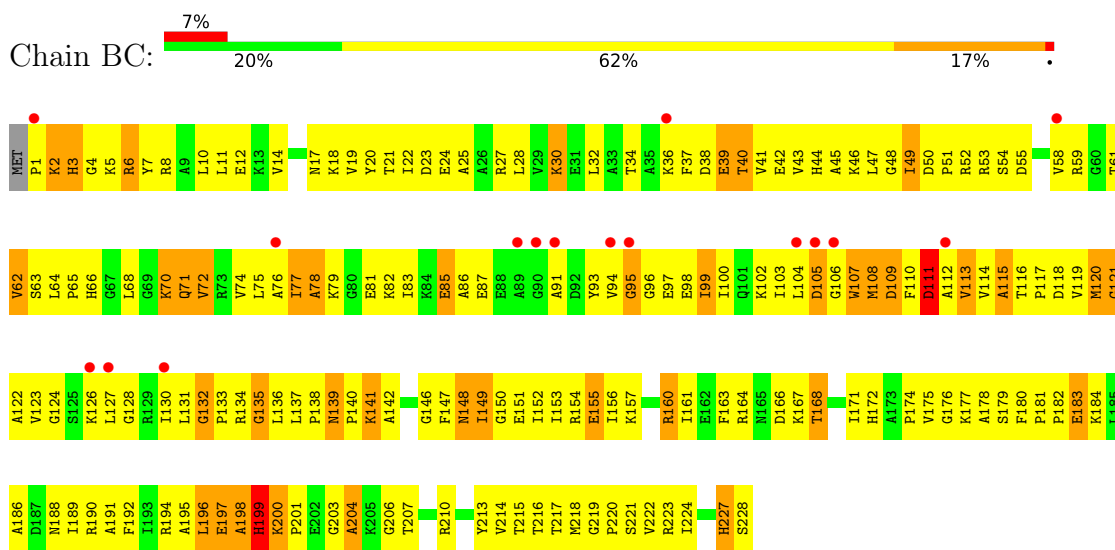
● Molecule 37: 5S RIBOSOMAL RNA



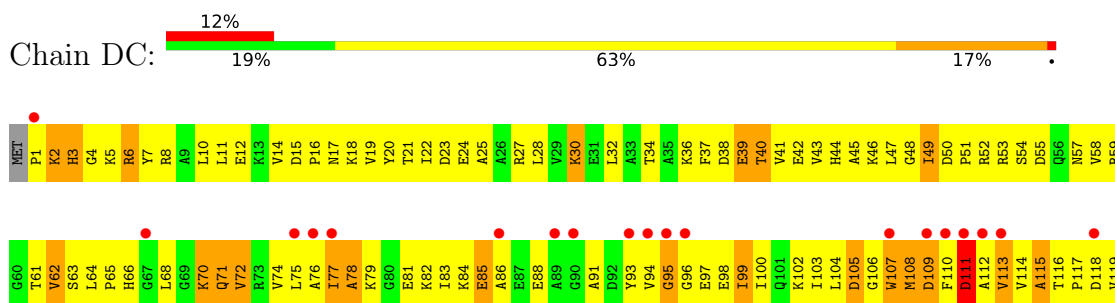
● Molecule 37: 5S RIBOSOMAL RNA



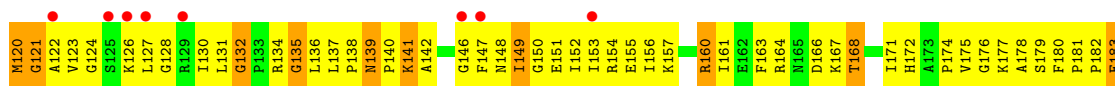
● Molecule 38: 50S RIBOSOMAL PROTEIN L1



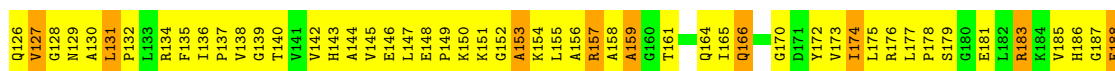
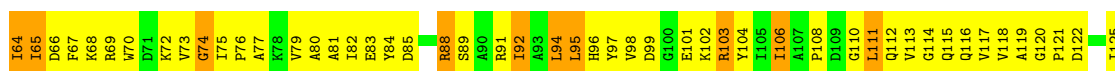
● Molecule 38: 50S RIBOSOMAL PROTEIN L1



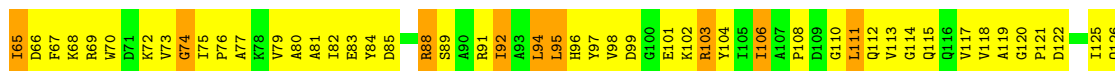
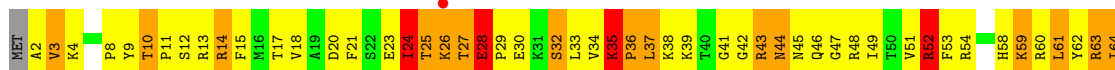




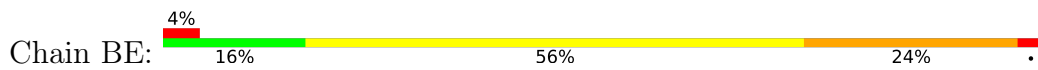
• Molecule 39: 50S RIBOSOMAL PROTEIN L2

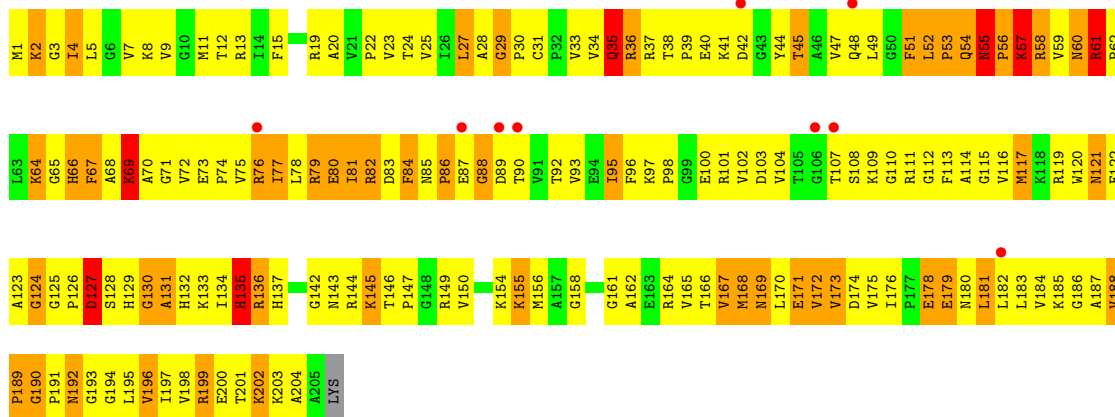


• Molecule 39: 50S RIBOSOMAL PROTEIN L2

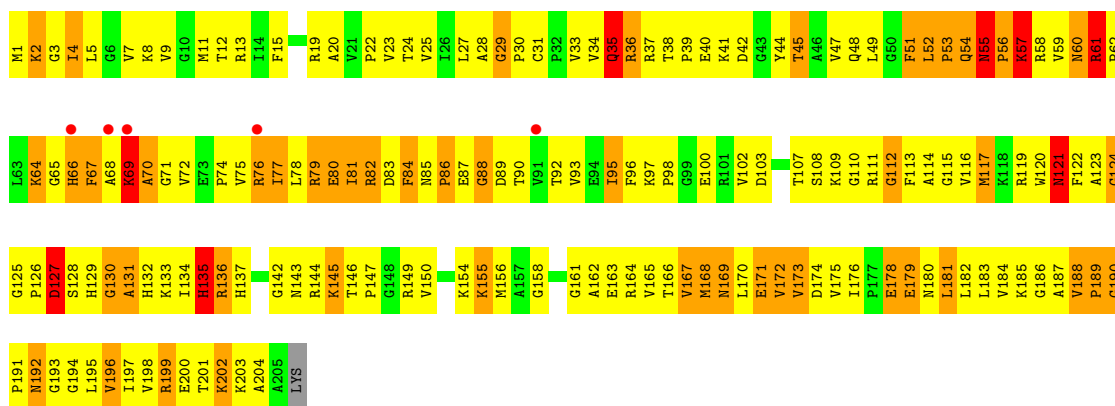
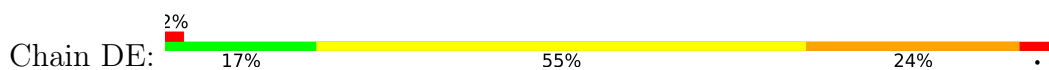


• Molecule 40: 50S RIBOSOMAL PROTEIN L3

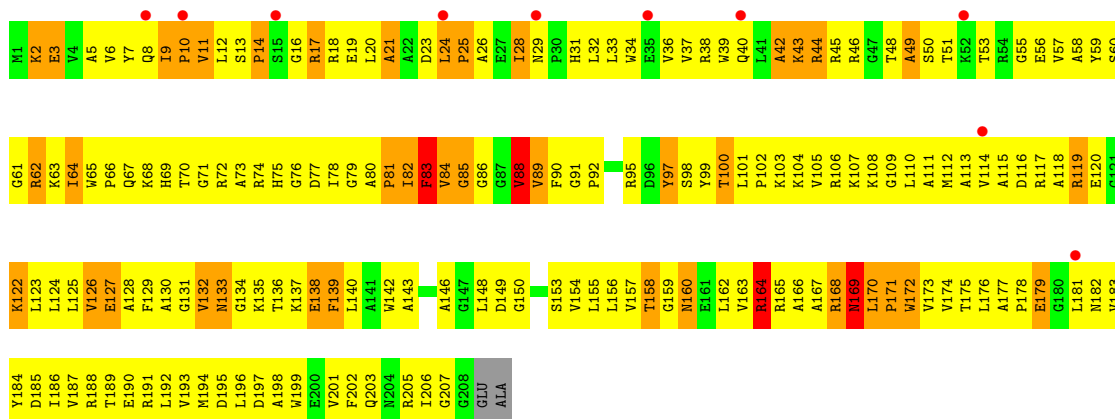
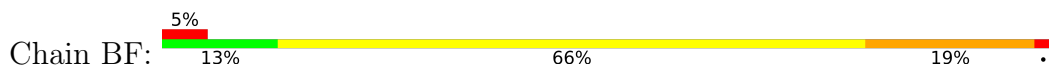




● Molecule 40: 50S RIBOSOMAL PROTEIN L3

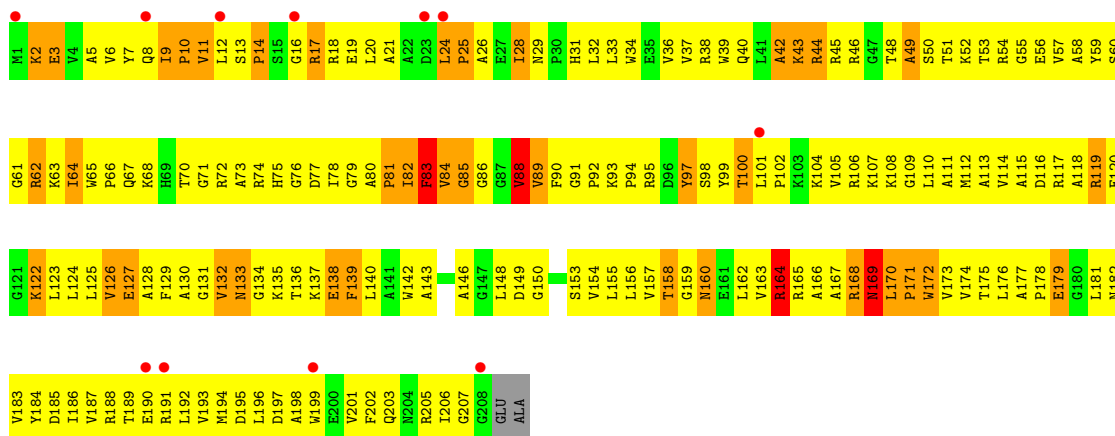


● Molecule 41: 50S RIBOSOMAL PROTEIN L4

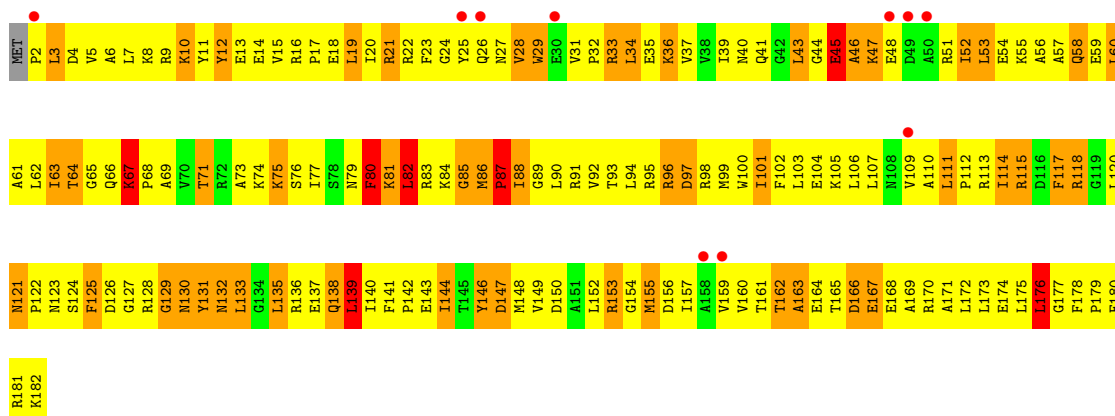
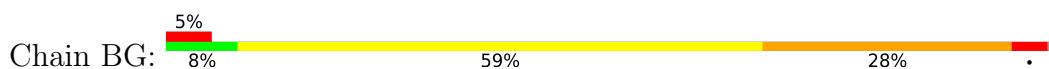


● Molecule 41: 50S RIBOSOMAL PROTEIN L4

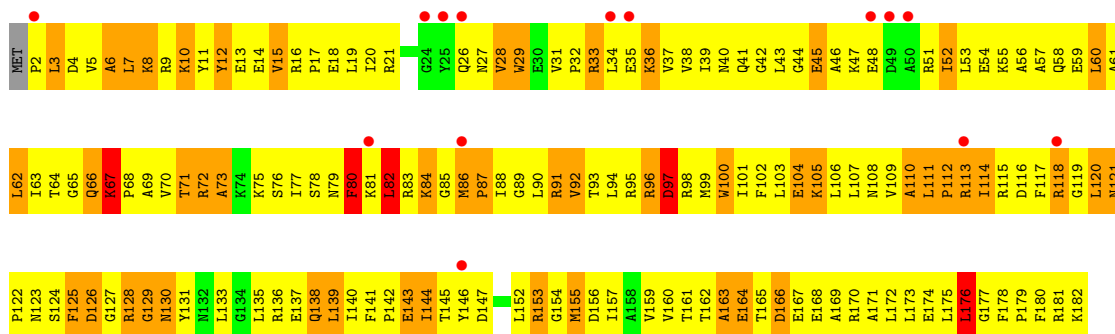
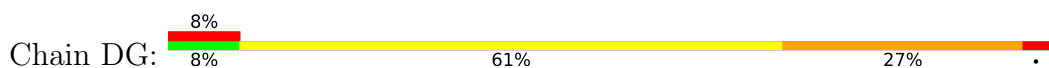




• Molecule 42: 50S RIBOSOMAL PROTEIN L5



• Molecule 42: 50S RIBOSOMAL PROTEIN L5



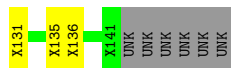
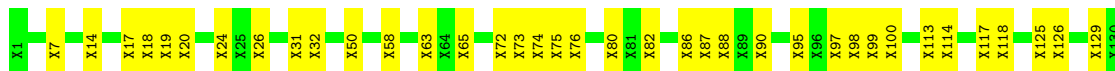
• Molecule 43: 50S RIBOSOMAL PROTEIN L6







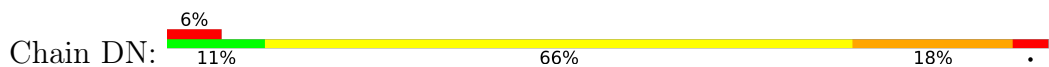
• Molecule 45: 50S RIBOSOMAL PROTEIN L11



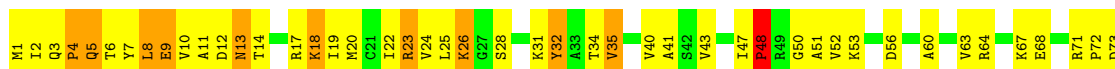
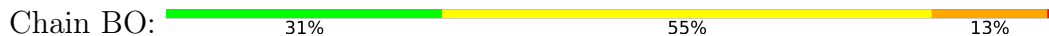
• Molecule 46: 50S RIBOSOMAL PROTEIN L13



• Molecule 46: 50S RIBOSOMAL PROTEIN L13

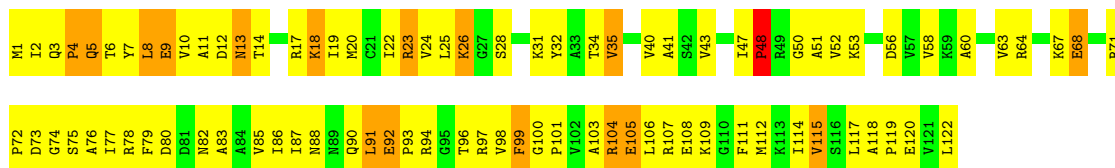


• Molecule 47: 50S RIBOSOMAL PROTEIN L14




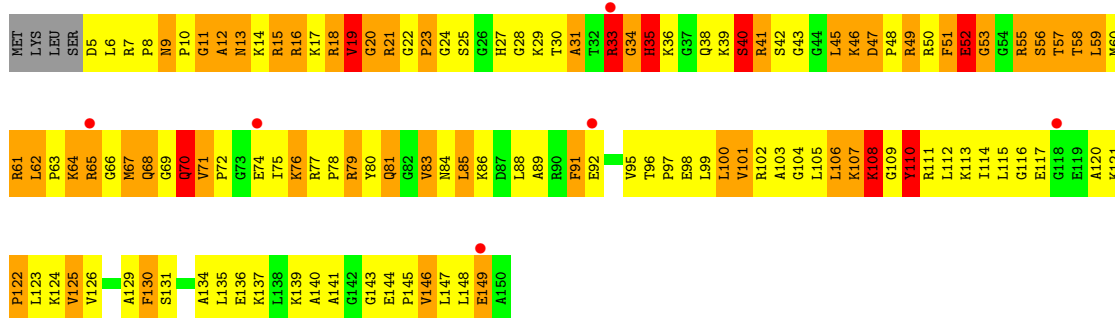
● Molecule 47: 50S RIBOSOMAL PROTEIN L14

Chain DO:  29% 57% 13%




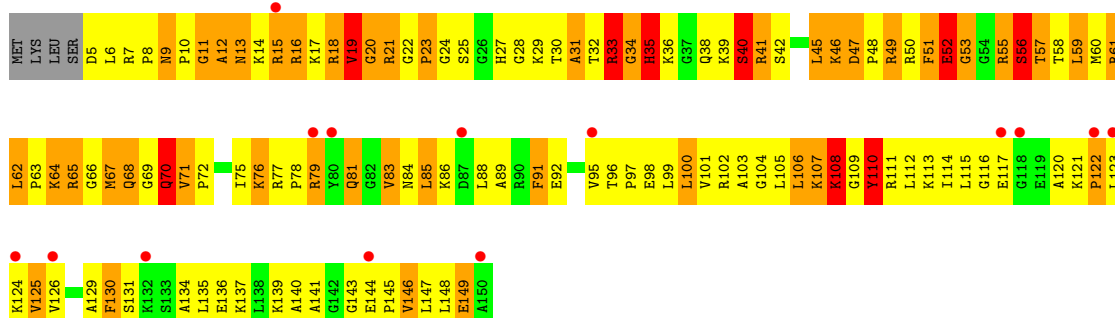
● Molecule 48: 50S RIBOSOMAL PROTEIN L15

Chain BP:  4% 13% 48% 31% 5%



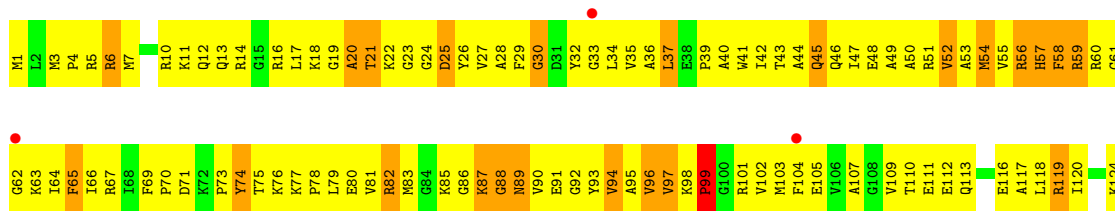
● Molecule 48: 50S RIBOSOMAL PROTEIN L15

Chain DP:  9% 15% 48% 29% 6%



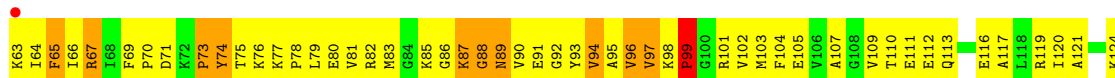
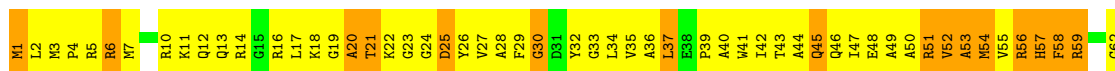
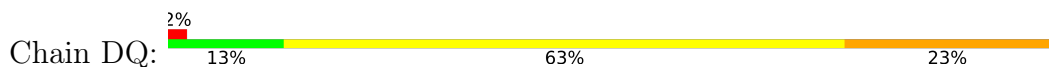
● Molecule 49: 50S RIBOSOMAL PROTEIN L16

Chain BQ:  4% 13% 66% 21%

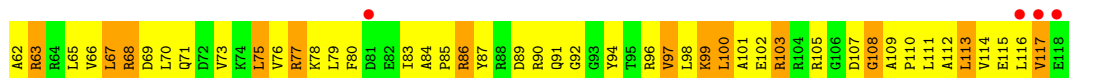
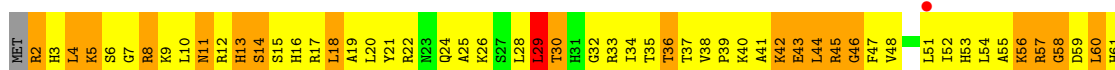
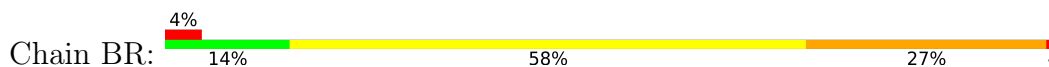




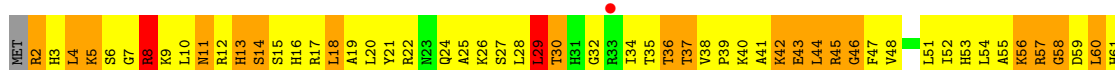
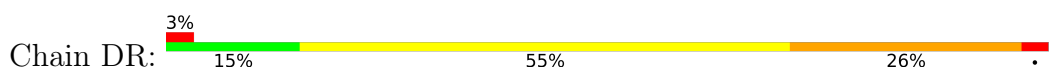
• Molecule 49: 50S RIBOSOMAL PROTEIN L16



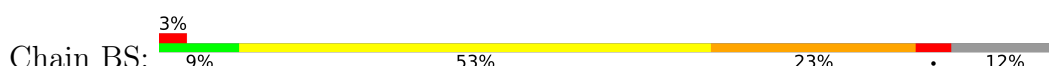
• Molecule 50: 50S RIBOSOMAL PROTEIN L17



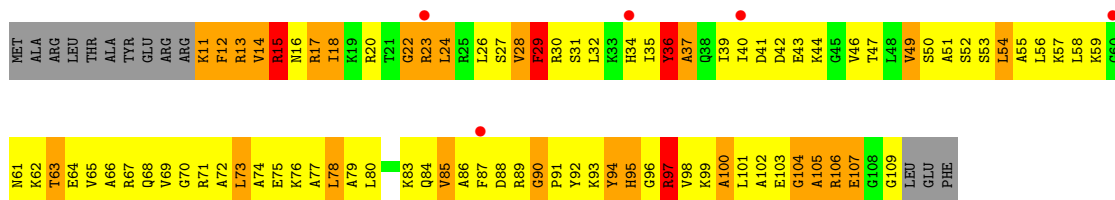
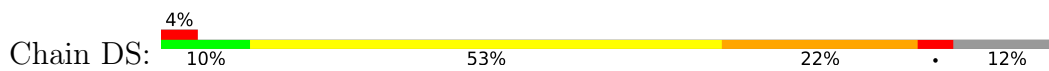
• Molecule 50: 50S RIBOSOMAL PROTEIN L17



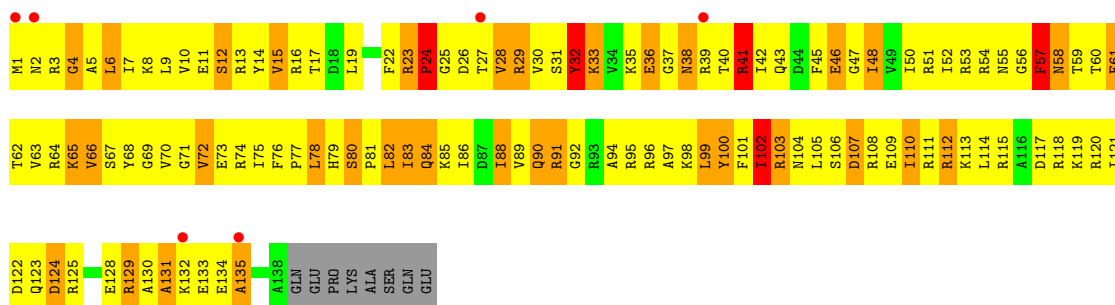
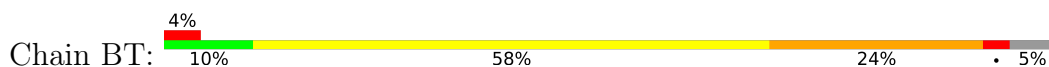
• Molecule 51: 50S RIBOSOMAL PROTEIN L18



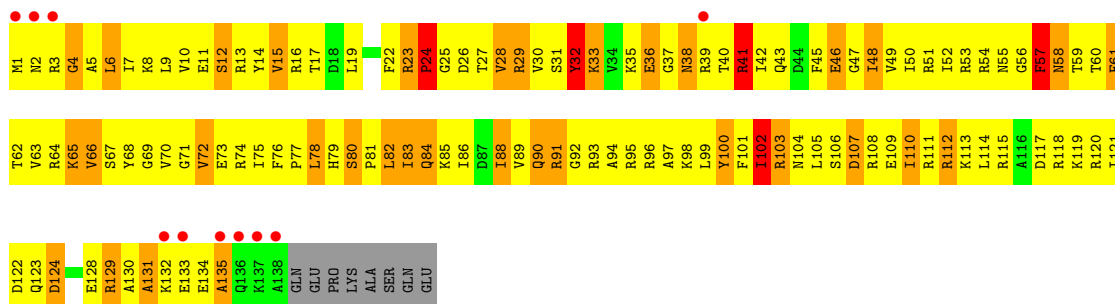
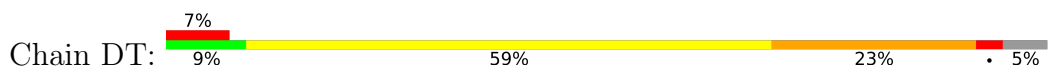
• Molecule 51: 50S RIBOSOMAL PROTEIN L18



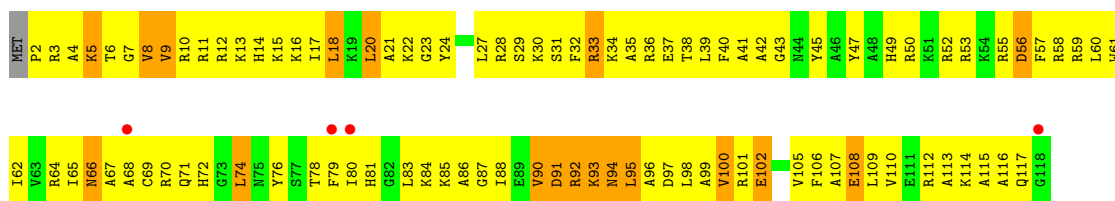
• Molecule 52: 50S RIBOSOMAL PROTEIN L19



• Molecule 52: 50S RIBOSOMAL PROTEIN L19



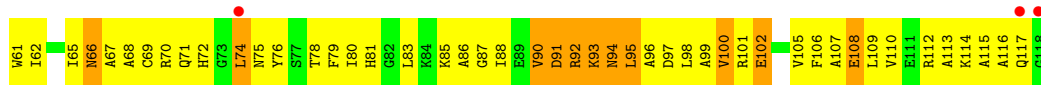
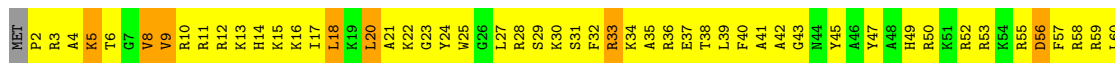
• Molecule 53: 50S RIBOSOMAL PROTEIN L20



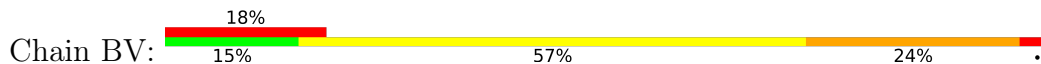
• Molecule 53: 50S RIBOSOMAL PROTEIN L20



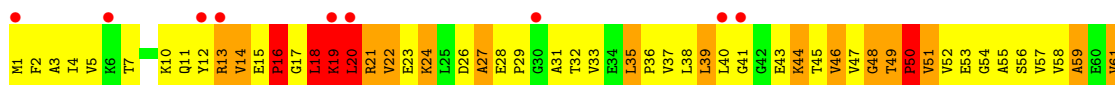




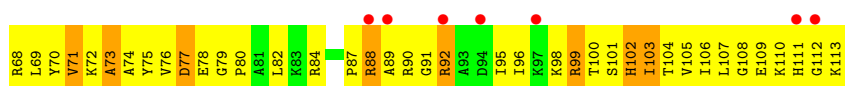
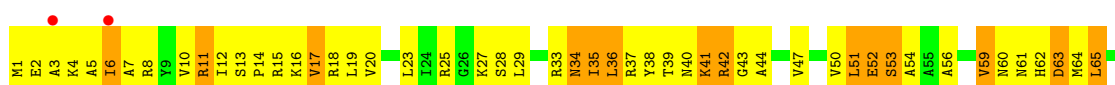
• Molecule 54: 50S RIBOSOMAL PROTEIN L21



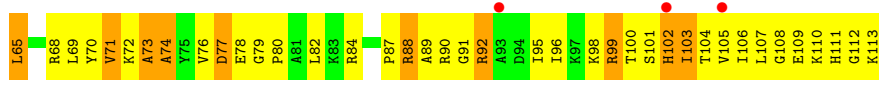
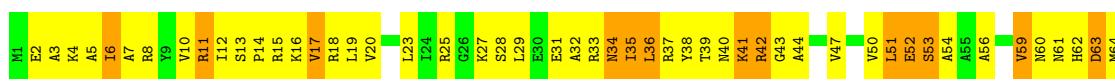
• Molecule 54: 50S RIBOSOMAL PROTEIN L21



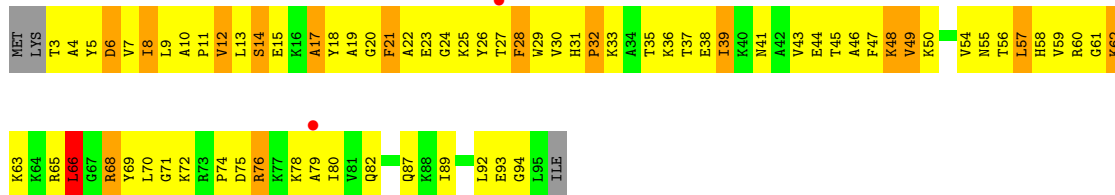
• Molecule 55: 50S RIBOSOMAL PROTEIN L22



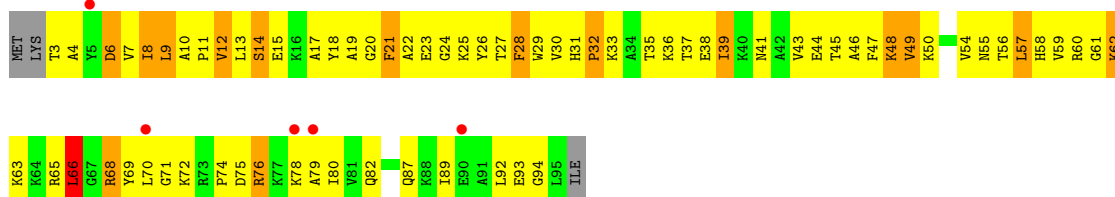
• Molecule 55: 50S RIBOSOMAL PROTEIN L22



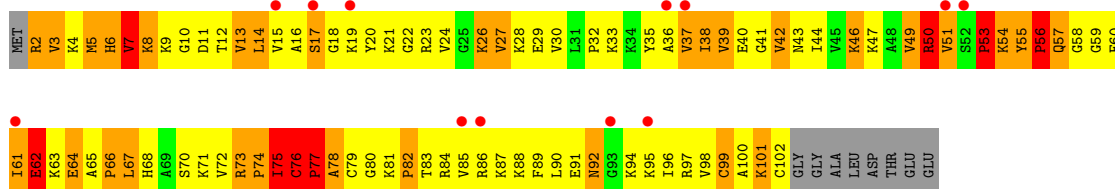
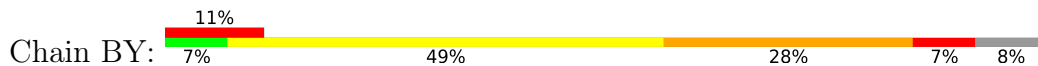
• Molecule 56: 50S RIBOSOMAL PROTEIN L23



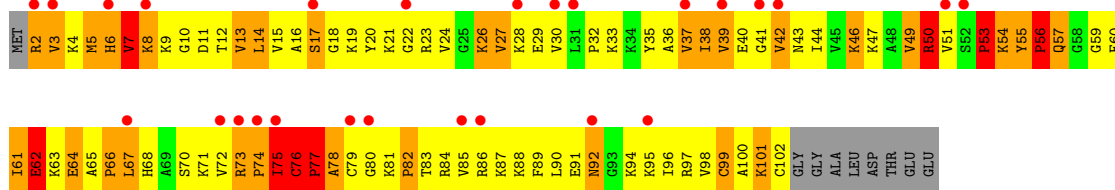
• Molecule 56: 50S RIBOSOMAL PROTEIN L23



• Molecule 57: 50S RIBOSOMAL PROTEIN L24

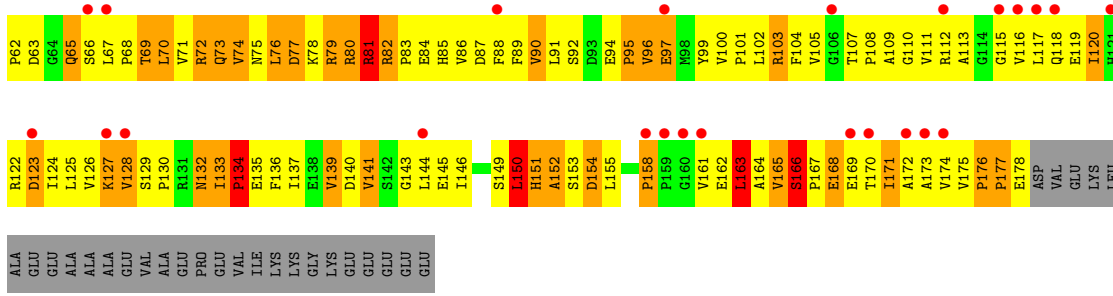


• Molecule 57: 50S RIBOSOMAL PROTEIN L24

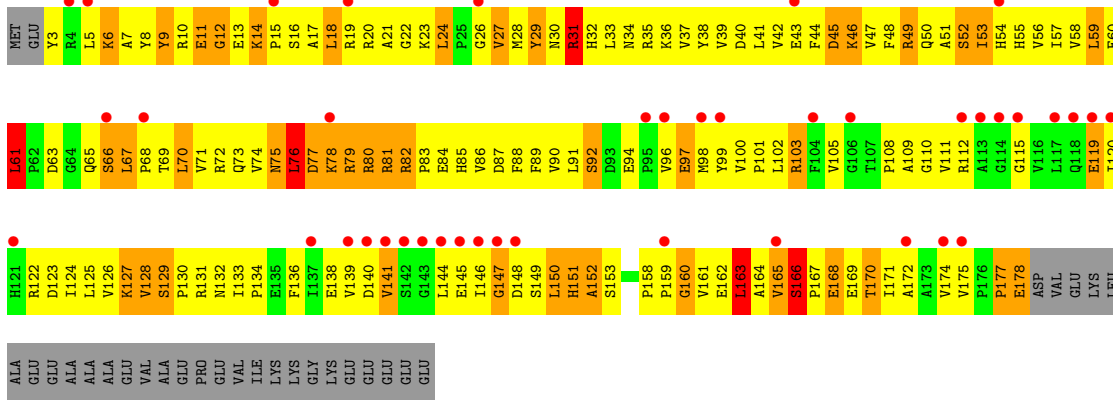
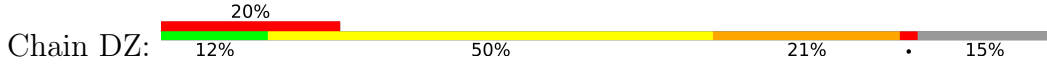


• Molecule 58: 50S RIBOSOMAL PROTEIN L25





● Molecule 58: 50S RIBOSOMAL PROTEIN L25



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	289.57Å 268.36Å 403.88Å 90.00° 91.01° 90.00°	Depositor
Resolution (Å)	50.00 – 3.60 49.91 – 3.48	Depositor EDS
% Data completeness (in resolution range)	93.6 (50.00-3.60) 87.3 (49.91-3.48)	Depositor EDS
$R_{merge}$	0.22	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.57 (at 3.48Å)	Xtrriage
Refinement program	CNS 1.2	Depositor
R, $R_{free}$	0.281 , 0.315 0.277 , 0.311	Depositor DCC
$R_{free}$ test set	35772 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	102.0	Xtrriage
Anisotropy	0.110	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.28 , 68.0	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.37$ , $\langle L^2 \rangle = 0.19$	Xtrriage
Estimated twinning fraction	0.098 for h,-k,-l	Xtrriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	306876	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	106.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.21% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

## 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: ZN, PSU, YG, GDP, 5MU, MG, KIR, H2U, 7MG, PAR

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	AA	0.64	1/36190 (0.0%)	0.78	23/56486 (0.0%)
1	CA	0.64	0/36190	0.77	20/56486 (0.0%)
2	AB	0.44	0/1936	0.71	0/2611
2	CB	0.44	0/1936	0.72	0/2611
3	AC	0.46	0/1637	0.73	1/2207 (0.0%)
3	CC	0.47	0/1637	0.73	0/2207
4	AD	0.46	0/1733	0.75	1/2318 (0.0%)
4	CD	0.44	0/1733	0.73	2/2318 (0.1%)
5	AE	0.57	0/1163	0.79	1/1566 (0.1%)
5	CE	0.56	0/1163	0.78	0/1566
6	AF	0.42	0/856	0.67	0/1154
6	CF	0.42	0/856	0.67	0/1154
7	AG	0.41	0/1276	0.66	0/1709
7	CG	0.42	0/1276	0.66	0/1709
8	AH	0.51	0/1136	0.72	0/1527
8	CH	0.49	0/1136	0.74	0/1527
9	AI	0.39	0/1029	0.65	0/1379
9	CI	0.39	0/1029	0.65	0/1379
10	AJ	0.46	0/808	0.71	1/1087 (0.1%)
10	CJ	0.48	0/808	0.71	1/1087 (0.1%)
11	AK	0.48	0/900	0.73	0/1213
11	CK	0.48	0/900	0.73	0/1213
12	AL	0.52	0/987	0.81	0/1322
12	CL	0.54	0/987	0.81	0/1322
13	AM	0.43	0/999	0.75	0/1338
13	CM	0.43	0/999	0.74	0/1338
14	AN	0.52	0/501	0.73	0/664
14	CN	0.51	0/501	0.74	0/664
15	AO	0.45	0/745	0.73	0/992
15	CO	0.44	0/745	0.73	0/992
16	AP	0.48	0/717	0.72	0/965
16	CP	0.46	0/717	0.72	0/965

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
17	AQ	0.46	0/837	0.74	0/1119
17	CQ	0.48	0/837	0.74	0/1119
18	AR	0.50	0/579	0.75	1/768 (0.1%)
18	CR	0.49	0/579	0.75	1/768 (0.1%)
19	AS	0.47	0/643	0.67	0/867
19	CS	0.45	0/643	0.67	0/867
20	AT	0.38	0/765	0.70	0/1007
20	CT	0.36	0/765	0.70	0/1007
21	AU	0.55	0/213	0.63	0/279
21	CU	0.56	0/213	0.64	0/279
22	AV	0.53	0/1809	0.76	0/2819
22	AW	0.45	0/1809	0.73	0/2819
22	CV	0.49	0/1809	0.76	0/2819
22	CW	0.45	0/1809	0.72	0/2819
23	AX	0.71	0/304	0.83	0/471
23	CX	0.72	0/304	0.81	0/471
24	AY	0.50	1/1660 (0.1%)	0.72	1/2583 (0.0%)
24	CY	0.51	1/1660 (0.1%)	0.72	1/2583 (0.0%)
25	AZ	0.38	0/2957	0.65	0/4015
25	CZ	0.38	0/2957	0.65	0/4015
26	B0	0.40	0/671	0.67	0/892
26	D0	0.40	0/671	0.66	0/892
27	B1	0.57	0/739	0.91	0/983
27	D1	0.60	0/739	0.92	1/983 (0.1%)
28	B2	0.44	0/600	0.87	2/793 (0.3%)
28	D2	0.43	0/600	0.80	1/793 (0.1%)
29	B3	0.44	0/473	0.74	0/636
29	D3	0.42	0/473	0.75	0/636
30	B4	0.71	0/350	0.79	0/476
30	D4	0.73	1/350 (0.3%)	0.75	0/476
31	B5	0.44	0/473	0.72	0/639
31	D5	0.43	0/473	0.71	0/639
32	B6	0.53	0/440	0.91	0/586
32	D6	0.56	0/440	0.93	0/586
33	B7	0.50	0/427	0.75	0/563
33	D7	0.50	0/427	0.74	0/563
34	B8	0.51	0/516	0.78	0/681
34	D8	0.51	0/516	0.77	0/681
35	B9	0.42	0/310	0.66	0/407
35	D9	0.44	0/310	0.67	0/407
36	BA	0.61	2/69972 (0.0%)	0.76	36/109237 (0.0%)
36	DA	0.61	2/69972 (0.0%)	0.77	37/109237 (0.0%)
37	BB	0.46	0/2853	0.72	0/4451

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
37	DB	0.45	0/2853	0.72	0/4451
38	BC	0.45	2/1774 (0.1%)	0.69	0/2391
38	DC	0.44	2/1774 (0.1%)	0.69	0/2391
39	BD	0.59	0/2195	0.86	1/2955 (0.0%)
39	DD	0.57	0/2195	0.86	0/2955
40	BE	0.48	0/1597	0.75	0/2155
40	DE	0.47	0/1597	0.75	0/2155
41	BF	0.45	0/1659	0.73	0/2246
41	DF	0.43	0/1659	0.72	0/2246
42	BG	0.46	0/1499	0.81	3/2016 (0.1%)
42	DG	0.50	1/1499 (0.1%)	0.77	0/2016
43	BH	0.37	0/1246	0.70	0/1684
43	DH	0.36	0/1246	0.70	0/1684
46	BN	0.42	0/1132	0.75	1/1527 (0.1%)
46	DN	0.43	0/1132	0.75	1/1527 (0.1%)
47	BO	0.49	0/943	0.79	0/1269
47	DO	0.52	0/943	0.78	0/1269
48	BP	0.49	0/1131	1.00	7/1504 (0.5%)
48	DP	0.48	0/1131	0.99	6/1504 (0.4%)
49	BQ	0.44	0/1143	0.71	0/1527
49	DQ	0.43	0/1143	0.72	0/1527
50	BR	0.41	0/974	0.74	0/1302
50	DR	0.39	0/974	0.74	0/1302
51	BS	0.41	0/779	0.72	0/1038
51	DS	0.41	0/779	0.72	0/1038
52	BT	0.47	0/1156	0.75	0/1544
52	DT	0.44	0/1156	0.75	0/1544
53	BU	0.43	0/975	0.74	0/1297
53	DU	0.45	0/975	0.75	0/1297
54	BV	0.39	0/790	0.73	0/1057
54	DV	0.40	0/790	0.73	0/1057
55	BW	0.44	0/907	0.71	0/1216
55	DW	0.42	0/907	0.72	0/1216
56	BX	0.47	0/740	0.71	0/995
56	DX	0.45	0/740	0.71	0/995
57	BY	0.44	0/789	0.81	1/1053 (0.1%)
57	DY	0.43	0/789	0.81	1/1053 (0.1%)
58	BZ	0.43	0/1435	0.77	0/1949
58	DZ	0.45	0/1435	0.78	0/1949
All	All	0.57	13/329754 (0.0%)	0.76	152/492708 (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	AA	1	68
1	CA	0	63
22	AV	0	2
22	AW	0	3
22	CV	0	2
22	CW	0	3
23	AX	0	1
23	CX	0	1
30	B4	0	1
30	D4	0	1
36	BA	2	84
36	DA	1	84
46	BN	0	1
46	DN	0	1
All	All	4	315

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	CY	1	G	OP3-P	-7.09	1.52	1.61
24	AY	1	G	OP3-P	-7.06	1.52	1.61
30	D4	47	GLN	C-N	-6.41	1.19	1.34
38	BC	218	MET	CG-SD	6.21	1.97	1.81
36	DA	2551	C	N1-C2	6.07	1.46	1.40
38	BC	120	MET	CG-SD	5.97	1.96	1.81
36	BA	761	A	C5-C6	-5.87	1.35	1.41
36	BA	733	G	C5-C6	-5.61	1.36	1.42
38	DC	218	MET	CG-SD	5.58	1.95	1.81
38	DC	120	MET	CG-SD	5.55	1.95	1.81
42	DG	67	LYS	CE-NZ	5.45	1.62	1.49
36	DA	2612	C	N1-C2	5.24	1.45	1.40
1	AA	18	C	N1-C2	5.03	1.45	1.40

All (152) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1498	U	C2'-C3'-O3'	11.14	134.01	109.50
1	AA	1050	G	N9-C1'-C2'	-9.97	101.03	112.00
1	CA	1050	G	N9-C1'-C2'	-9.73	101.29	112.00
1	AA	961	U	N1-C1'-C2'	-9.15	101.93	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	CA	961	U	N1-C1'-C2'	-9.06	102.03	112.00
36	BA	1799	G	C2'-C3'-O3'	8.77	128.80	109.50
36	DA	1799	G	C2'-C3'-O3'	8.75	128.75	109.50
36	BA	1819	A	C2'-C3'-O3'	8.63	128.48	109.50
36	BA	2346	A	N9-C1'-C2'	8.34	124.85	114.00
36	DA	1819	A	C2'-C3'-O3'	8.21	127.56	109.50
48	BP	41	ARG	N-CA-C	-8.16	88.97	111.00
1	CA	1498	U	C2'-C3'-O3'	8.08	127.28	109.50
36	BA	1653	G	C2'-C3'-O3'	8.01	127.11	109.50
36	DA	1992	G	C2'-C3'-O3'	7.79	126.65	109.50
36	DA	2346	A	N9-C1'-C2'	7.69	123.99	114.00
36	DA	1653	G	C2'-C3'-O3'	7.55	126.11	109.50
1	AA	575	G	C2'-C3'-O3'	7.54	126.08	109.50
48	DP	41	ARG	N-CA-C	-7.45	90.87	111.00
1	AA	243	A	C2'-C3'-O3'	7.30	125.57	109.50
36	BA	1992	G	C2'-C3'-O3'	7.23	125.40	109.50
36	DA	2610	C	C2'-C3'-O3'	7.13	125.18	109.50
1	CA	575	G	C2'-C3'-O3'	7.12	125.16	109.50
48	DP	53	GLY	N-CA-C	-6.95	95.73	113.10
36	DA	1495	A	N9-C1'-C2'	6.95	123.03	114.00
36	BA	1820	U	C2'-C3'-O3'	6.95	124.81	113.70
48	BP	53	GLY	N-CA-C	-6.94	95.75	113.10
1	AA	534	U	N1-C1'-C2'	-6.93	104.38	112.00
48	BP	51	PHE	N-CA-C	6.91	129.65	111.00
36	BA	2405	G	N9-C1'-C2'	6.85	122.91	114.00
36	DA	2405	G	N9-C1'-C2'	6.85	122.91	114.00
48	DP	51	PHE	N-CA-C	6.83	129.45	111.00
1	CA	243	A	C2'-C3'-O3'	6.82	124.61	113.70
36	BA	1495	A	N9-C1'-C2'	6.81	122.85	114.00
1	CA	55	A	N9-C1'-C2'	6.74	122.76	114.00
48	BP	52	GLU	N-CA-C	6.67	129.00	111.00
48	DP	52	GLU	N-CA-C	6.66	128.98	111.00
57	DY	54	LYS	N-CA-C	-6.59	93.21	111.00
57	BY	54	LYS	N-CA-C	-6.49	93.48	111.00
1	AA	7	G	N9-C1'-C2'	6.47	122.41	114.00
1	AA	55	A	N9-C1'-C2'	6.44	122.37	114.00
1	CA	518	C	N1-C1'-C2'	6.43	122.36	114.00
36	DA	764	A	C1'-O4'-C4'	-6.37	104.80	109.90
36	BA	2610	C	C2'-C3'-O3'	6.31	123.80	113.70
36	DA	1786	A	N9-C1'-C2'	6.29	122.17	114.00
36	BA	1493	C	N1-C1'-C2'	6.28	122.17	114.00
36	DA	331	A	C2'-C3'-O3'	6.24	123.69	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	CA	1053	G	C2'-C3'-O3'	6.21	123.64	113.70
1	CA	534	U	N1-C1'-C2'	-6.21	105.17	112.00
36	DA	2525	G	N9-C1'-C2'	-6.17	105.21	112.00
46	BN	51	PHE	N-CA-C	-6.17	94.34	111.00
1	AA	498	U	N1-C1'-C2'	-6.15	105.23	112.00
42	BG	88	ILE	N-CA-C	6.13	127.56	111.00
36	BA	2525	G	N9-C1'-C2'	-6.12	105.27	112.00
1	CA	7	G	N9-C1'-C2'	6.12	121.95	114.00
1	CA	498	U	N1-C1'-C2'	-6.10	105.29	112.00
36	BA	1786	A	N9-C1'-C2'	6.07	121.89	114.00
36	DA	1493	C	N1-C1'-C2'	6.06	121.88	114.00
1	AA	1502	A	N9-C1'-C2'	6.01	121.81	114.00
1	AA	518	C	N1-C1'-C2'	6.00	121.81	114.00
36	BA	331	A	C2'-C3'-O3'	6.00	123.30	113.70
28	D2	32	LEU	N-CA-C	-5.98	94.86	111.00
1	AA	1487	G	N9-C1'-C2'	-5.94	105.46	112.00
36	DA	1660	C	N1-C1'-C2'	-5.94	105.47	112.00
36	DA	1819	A	C4'-C3'-O3'	5.92	124.85	113.00
48	BP	40	SER	N-CA-C	-5.90	95.06	111.00
1	CA	1528	U	N1-C1'-C2'	-5.90	105.51	112.00
4	AD	12	CYS	N-CA-C	-5.89	95.09	111.00
36	BA	1896	G	N9-C1'-C2'	-5.86	105.55	112.00
36	BA	352	G	N9-C1'-C2'	5.86	121.62	114.00
1	AA	508	C	N1-C1'-C2'	5.81	121.55	114.00
36	BA	2508	G	N9-C1'-C2'	-5.80	105.62	112.00
36	BA	243	U	N1-C1'-C2'	5.79	121.53	114.00
36	DA	2052	G	N9-C1'-C2'	-5.78	105.65	112.00
46	DN	51	PHE	N-CA-C	-5.75	95.49	111.00
36	DA	1820	U	C2'-C3'-O3'	5.74	122.89	113.70
4	CD	12	CYS	N-CA-C	-5.73	95.52	111.00
1	CA	388	G	N9-C1'-C2'	5.70	121.41	114.00
1	AA	982	U	N1-C1'-C2'	5.67	121.37	114.00
1	CA	982	U	N1-C1'-C2'	5.64	121.33	114.00
48	DP	40	SER	N-CA-C	-5.62	95.82	111.00
1	AA	28	G	N9-C1'-C2'	-5.60	105.84	112.00
1	AA	1053	G	C2'-C3'-O3'	5.59	122.64	113.70
36	DA	945	A	N9-C1'-C2'	5.59	121.26	114.00
36	BA	1698	A	O4'-C1'-N9	5.58	112.66	108.20
36	DA	352	G	N9-C1'-C2'	5.57	121.24	114.00
36	BA	2110	G	C2'-C3'-O3'	5.55	122.59	113.70
36	DA	1807	G	N9-C1'-C2'	-5.55	105.89	112.00
1	AA	47	C	N1-C1'-C2'	5.54	121.20	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	B2	32	LEU	N-CA-C	-5.54	96.05	111.00
18	AR	78	LEU	CA-CB-CG	-5.52	102.60	115.30
1	CA	652	U	N1-C1'-C2'	5.52	121.17	114.00
36	DA	2110	G	C2'-C3'-O3'	5.50	122.51	113.70
36	BA	1698	A	N9-C1'-C2'	5.49	121.14	114.00
36	BA	784	A	N9-C1'-C2'	5.49	121.14	114.00
36	DA	243	U	N1-C1'-C2'	5.48	121.12	114.00
24	CY	1	G	OP1-P-OP2	-5.47	111.39	119.60
42	BG	85	GLY	N-CA-C	-5.47	99.42	113.10
42	BG	67	LYS	CD-CE-NZ	5.46	124.26	111.70
18	CR	78	LEU	CA-CB-CG	-5.44	102.78	115.30
36	DA	1820	U	C4'-C3'-C2'	5.43	108.03	102.60
36	DA	1698	A	N9-C1'-C2'	5.39	121.00	114.00
36	BA	386	G	N9-C1'-C2'	5.38	121.00	114.00
36	DA	1698	A	O4'-C1'-N9	5.37	112.50	108.20
36	DA	748	G	O4'-C1'-N9	5.35	112.48	108.20
36	BA	1807	G	N9-C1'-C2'	-5.34	106.13	112.00
36	DA	2590	A	C5'-C4'-O4'	5.34	115.51	109.10
1	CA	1124	G	N9-C1'-C2'	5.34	120.94	114.00
36	DA	1970	A	C1'-O4'-C4'	-5.33	105.64	109.90
36	BA	1970	A	C1'-O4'-C4'	-5.31	105.65	109.90
24	AY	1	G	OP1-P-OP2	-5.31	111.64	119.60
10	CJ	93	GLY	N-CA-C	-5.29	99.86	113.10
1	AA	1077	G	N9-C1'-C2'	-5.29	106.18	112.00
1	AA	641	U	N1-C1'-C2'	5.29	120.88	114.00
36	BA	1820	U	C4'-C3'-C2'	5.28	107.88	102.60
1	AA	1124	G	N9-C1'-C2'	5.27	120.85	114.00
1	CA	47	C	N1-C1'-C2'	5.27	120.85	114.00
1	CA	508	C	N1-C1'-C2'	5.26	120.84	114.00
36	DA	1952	A	N9-C1'-C2'	5.25	120.83	114.00
1	CA	453	A	N9-C1'-C2'	-5.24	106.23	112.00
36	DA	784	A	N9-C1'-C2'	5.22	120.79	114.00
36	BA	1970	A	C5'-C4'-O4'	5.22	115.36	109.10
39	BD	210	GLY	N-CA-C	-5.21	100.08	113.10
36	DA	2035	G	N9-C1'-C2'	5.21	120.77	114.00
36	BA	967	C	N1-C1'-C2'	-5.19	106.29	112.00
5	AE	25	ARG	N-CA-C	-5.18	97.02	111.00
36	BA	2477	C	N1-C1'-C2'	5.17	120.72	114.00
36	BA	74	A	C2'-C3'-O3'	5.16	121.96	113.70
36	DA	748	G	N9-C1'-C2'	5.15	120.70	114.00
36	DA	1669	A	N9-C1'-C2'	5.15	120.70	114.00
36	BA	1799	G	C4'-C3'-O3'	5.15	123.30	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	DA	1896	G	N9-C1'-C2'	-5.14	106.35	112.00
36	BA	1920	C	N1-C1'-C2'	-5.13	106.35	112.00
36	DA	1909	C	C5'-C4'-C3'	-5.12	107.81	116.00
1	AA	641	U	C2'-C3'-O3'	5.11	121.88	113.70
36	DA	386	G	N9-C1'-C2'	5.09	120.62	114.00
48	BP	58	THR	N-CA-C	-5.08	97.27	111.00
3	AC	155	GLY	N-CA-C	5.08	125.80	113.10
36	BA	1459	G	N9-C1'-C2'	5.08	120.61	114.00
28	B2	16	LEU	N-CA-C	5.08	124.70	111.00
1	CA	1502	A	N9-C1'-C2'	5.07	120.59	114.00
48	DP	28	GLY	N-CA-C	-5.07	100.42	113.10
1	AA	652	U	N1-C1'-C2'	5.07	120.59	114.00
36	BA	764	A	C1'-O4'-C4'	-5.06	105.85	109.90
10	AJ	93	GLY	N-CA-C	-5.06	100.46	113.10
36	BA	1819	A	C4'-C3'-O3'	5.06	123.11	113.00
36	DA	74	A	C2'-C3'-O3'	5.05	121.78	113.70
36	BA	748	G	O4'-C1'-N9	5.04	112.24	108.20
36	BA	748	G	N9-C1'-C2'	5.03	120.54	114.00
1	AA	388	G	N9-C1'-C2'	5.03	120.54	114.00
27	D1	73	LEU	N-CA-C	-5.01	97.47	111.00
4	CD	32	ALA	N-CA-C	-5.01	97.47	111.00
48	BP	28	GLY	N-CA-C	-5.00	100.59	113.10

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	1498	U	C3'
36	BA	1799	G	C3'
36	BA	1819	A	C3'
36	DA	1819	A	C3'

All (315) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1054	C	Sidechain
1	AA	1058	G	Sidechain
1	AA	1067	A	Sidechain
1	AA	1081	G	Sidechain
1	AA	109	A	Sidechain
1	AA	1194	U	Sidechain
1	AA	1201	A	Sidechain
1	AA	1301	U	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	AA	1302	U	Sidechain
1	AA	1329	A	Sidechain
1	AA	1348	U	Sidechain
1	AA	1370	G	Sidechain
1	AA	1391	U	Sidechain
1	AA	1394	A	Sidechain
1	AA	1401	G	Sidechain
1	AA	1406	U	Sidechain
1	AA	1407	C	Sidechain
1	AA	1408	A	Sidechain
1	AA	1415	G	Sidechain
1	AA	1417	G	Sidechain
1	AA	1491	G	Sidechain
1	AA	1497	G	Sidechain
1	AA	1498	U	Sidechain
1	AA	1505	G	Sidechain
1	AA	1509	C	Sidechain
1	AA	1510	U	Sidechain
1	AA	1514	C	Sidechain
1	AA	189(H)	G	Sidechain
1	AA	235	C	Sidechain
1	AA	24	U	Sidechain
1	AA	245	C	Sidechain
1	AA	254	G	Sidechain
1	AA	362	G	Sidechain
1	AA	37	U	Sidechain
1	AA	371	G	Sidechain
1	AA	424	G	Sidechain
1	AA	453	A	Sidechain
1	AA	498	U	Sidechain
1	AA	534	U	Sidechain
1	AA	541	G	Sidechain
1	AA	559	A	Sidechain
1	AA	565	U	Sidechain
1	AA	584	G	Sidechain
1	AA	609	A	Sidechain
1	AA	641	U	Sidechain
1	AA	652	U	Sidechain
1	AA	655	A	Sidechain
1	AA	661	G	Sidechain
1	AA	678	U	Sidechain
1	AA	690	G	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	AA	7	G	Sidechain
1	AA	727	G	Sidechain
1	AA	788	U	Sidechain
1	AA	813	U	Sidechain
1	AA	816	A	Sidechain
1	AA	836	G	Sidechain
1	AA	858	G	Sidechain
1	AA	901	A	Sidechain
1	AA	917	G	Sidechain
1	AA	919	A	Sidechain
1	AA	920	U	Sidechain
1	AA	935	A	Sidechain
1	AA	936	C	Sidechain
1	AA	952	U	Sidechain
1	AA	955	U	Sidechain
1	AA	961	U	Sidechain
1	AA	978	A	Sidechain
1	AA	982	U	Sidechain
22	AV	32	U	Sidechain
22	AV	49	C	Sidechain
22	AW	10	G	Sidechain
22	AW	16	U	Sidechain
22	AW	8	U	Sidechain
23	AX	19	U	Sidechain
30	B4	43	TYR	Sidechain
36	BA	1234	U	Sidechain
36	BA	1251	C	Sidechain
36	BA	1343	G	Sidechain
36	BA	1357	U	Sidechain
36	BA	1420	U	Sidechain
36	BA	1433	U	Sidechain
36	BA	1435	G	Sidechain
36	BA	1447	G	Sidechain
36	BA	1504	C	Sidechain
36	BA	1528	A	Sidechain
36	BA	1614	A	Sidechain
36	BA	1619	G	Sidechain
36	BA	1633	G	Sidechain
36	BA	1690	A	Sidechain
36	BA	1772	G	Sidechain
36	BA	1777	U	Sidechain
36	BA	1779	U	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
36	BA	1791	A	Sidechain
36	BA	1804	C	Sidechain
36	BA	1812	A	Sidechain
36	BA	1833	U	Sidechain
36	BA	1834	U	Sidechain
36	BA	1849	G	Sidechain
36	BA	1927	A	Sidechain
36	BA	1938	A	Sidechain
36	BA	1944	U	Sidechain
36	BA	1955	U	Sidechain
36	BA	1962	C	Sidechain
36	BA	1971	A	Sidechain
36	BA	1972	A	Sidechain
36	BA	1980	G	Sidechain
36	BA	1987	G	Sidechain
36	BA	2052	G	Sidechain
36	BA	2070	G	Sidechain
36	BA	2079	U	Sidechain
36	BA	2233	U	Sidechain
36	BA	2237	G	Sidechain
36	BA	2250	G	Sidechain
36	BA	2344	U	Sidechain
36	BA	2346	A	Sidechain
36	BA	2357	U	Sidechain
36	BA	2390	U	Sidechain
36	BA	2464	C	Sidechain
36	BA	250	G	Sidechain
36	BA	2504	U	Sidechain
36	BA	2507	C	Sidechain
36	BA	2517	C	Sidechain
36	BA	2525	G	Sidechain
36	BA	2554	U	Sidechain
36	BA	2595	G	Sidechain
36	BA	2596	U	Sidechain
36	BA	2597	G	Sidechain
36	BA	2604	U	Sidechain
36	BA	269	U	Sidechain
36	BA	2719	G	Sidechain
36	BA	2756	U	Sidechain
36	BA	2779	U	Sidechain
36	BA	389	G	Sidechain
36	BA	395	U	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
36	BA	454	A	Sidechain
36	BA	463	G	Sidechain
36	BA	464	U	Sidechain
36	BA	532	A	Sidechain
36	BA	574	C	Sidechain
36	BA	606	U	Sidechain
36	BA	63	U	Sidechain
36	BA	676	A	Sidechain
36	BA	686	G	Sidechain
36	BA	688	U	Sidechain
36	BA	716	A	Sidechain
36	BA	72	U	Sidechain
36	BA	726	G	Sidechain
36	BA	746	A	Sidechain
36	BA	749	C	Sidechain
36	BA	763	G	Sidechain
36	BA	769	G	Sidechain
36	BA	776	G	Sidechain
36	BA	787	U	Sidechain
36	BA	792	G	Sidechain
36	BA	860	U	Sidechain
36	BA	945	A	Sidechain
36	BA	946	G	Sidechain
36	BA	972	G	Sidechain
36	BA	987	G	Sidechain
46	BN	4	TYR	Sidechain
1	CA	1054	C	Sidechain
1	CA	1058	G	Sidechain
1	CA	1081	G	Sidechain
1	CA	109	A	Sidechain
1	CA	1194	U	Sidechain
1	CA	1201	A	Sidechain
1	CA	1302	U	Sidechain
1	CA	1329	A	Sidechain
1	CA	1348	U	Sidechain
1	CA	1370	G	Sidechain
1	CA	1391	U	Sidechain
1	CA	1394	A	Sidechain
1	CA	1402	C	Sidechain
1	CA	1415	G	Sidechain
1	CA	1417	G	Sidechain
1	CA	1465	C	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	CA	1473	A	Sidechain
1	CA	1481	U	Sidechain
1	CA	1492	A	Sidechain
1	CA	1498	U	Sidechain
1	CA	1517	G	Sidechain
1	CA	1519	A	Sidechain
1	CA	1528	U	Sidechain
1	CA	189(H)	G	Sidechain
1	CA	24	U	Sidechain
1	CA	245	C	Sidechain
1	CA	37	U	Sidechain
1	CA	371	G	Sidechain
1	CA	424	G	Sidechain
1	CA	498	U	Sidechain
1	CA	521	G	Sidechain
1	CA	534	U	Sidechain
1	CA	541	G	Sidechain
1	CA	559	A	Sidechain
1	CA	565	U	Sidechain
1	CA	584	G	Sidechain
1	CA	609	A	Sidechain
1	CA	641	U	Sidechain
1	CA	652	U	Sidechain
1	CA	655	A	Sidechain
1	CA	661	G	Sidechain
1	CA	677	U	Sidechain
1	CA	678	U	Sidechain
1	CA	7	G	Sidechain
1	CA	727	G	Sidechain
1	CA	787	A	Sidechain
1	CA	788	U	Sidechain
1	CA	813	U	Sidechain
1	CA	816	A	Sidechain
1	CA	858	G	Sidechain
1	CA	901	A	Sidechain
1	CA	914	A	Sidechain
1	CA	917	G	Sidechain
1	CA	920	U	Sidechain
1	CA	921	U	Sidechain
1	CA	935	A	Sidechain
1	CA	936	C	Sidechain
1	CA	952	U	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	CA	955	U	Sidechain
1	CA	961	U	Sidechain
1	CA	974	A	Sidechain
1	CA	978	A	Sidechain
1	CA	982	U	Sidechain
22	CV	32	U	Sidechain
22	CV	49	C	Sidechain
22	CW	10	G	Sidechain
22	CW	16	U	Sidechain
22	CW	8	U	Sidechain
23	CX	19	U	Sidechain
30	D4	43	TYR	Sidechain
36	DA	1234	U	Sidechain
36	DA	1251	C	Sidechain
36	DA	1302	A	Sidechain
36	DA	1325	G	Sidechain
36	DA	1343	G	Sidechain
36	DA	1357	U	Sidechain
36	DA	1420	U	Sidechain
36	DA	1433	U	Sidechain
36	DA	1447	G	Sidechain
36	DA	1465	G	Sidechain
36	DA	1528	A	Sidechain
36	DA	1631(A)	A	Sidechain
36	DA	1633	G	Sidechain
36	DA	1701	A	Sidechain
36	DA	1772	G	Sidechain
36	DA	1777	U	Sidechain
36	DA	1779	U	Sidechain
36	DA	1791	A	Sidechain
36	DA	1804	C	Sidechain
36	DA	1808	U	Sidechain
36	DA	1823	G	Sidechain
36	DA	1834	U	Sidechain
36	DA	1849	G	Sidechain
36	DA	1923	U	Sidechain
36	DA	1927	A	Sidechain
36	DA	1944	U	Sidechain
36	DA	1955	U	Sidechain
36	DA	1968	G	Sidechain
36	DA	1971	A	Sidechain
36	DA	1980	G	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
36	DA	1987	G	Sidechain
36	DA	2000	G	Sidechain
36	DA	2009	G	Sidechain
36	DA	2031	A	Sidechain
36	DA	2052	G	Sidechain
36	DA	2070	G	Sidechain
36	DA	2079	U	Sidechain
36	DA	2224	G	Sidechain
36	DA	2233	U	Sidechain
36	DA	2237	G	Sidechain
36	DA	2250	G	Sidechain
36	DA	2344	U	Sidechain
36	DA	2346	A	Sidechain
36	DA	2390	U	Sidechain
36	DA	2464	C	Sidechain
36	DA	2491	U	Sidechain
36	DA	2504	U	Sidechain
36	DA	2525	G	Sidechain
36	DA	2554	U	Sidechain
36	DA	2581	G	Sidechain
36	DA	2595	G	Sidechain
36	DA	2596	U	Sidechain
36	DA	2597	G	Sidechain
36	DA	2604	U	Sidechain
36	DA	269	U	Sidechain
36	DA	2712(A)	A	Sidechain
36	DA	2719	G	Sidechain
36	DA	2756	U	Sidechain
36	DA	2779	U	Sidechain
36	DA	28	A	Sidechain
36	DA	389	G	Sidechain
36	DA	395	U	Sidechain
36	DA	45	C	Sidechain
36	DA	454	A	Sidechain
36	DA	463	G	Sidechain
36	DA	464	U	Sidechain
36	DA	498	G	Sidechain
36	DA	532	A	Sidechain
36	DA	606	U	Sidechain
36	DA	676	A	Sidechain
36	DA	686	G	Sidechain
36	DA	688	U	Sidechain

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Mol	Chain	Res	Type	Group
36	DA	72	U	Sidechain
36	DA	726	G	Sidechain
36	DA	746	A	Sidechain
36	DA	759	G	Sidechain
36	DA	763	G	Sidechain
36	DA	769	G	Sidechain
36	DA	776	G	Sidechain
36	DA	787	U	Sidechain
36	DA	860	U	Sidechain
36	DA	945	A	Sidechain
36	DA	972	G	Sidechain
36	DA	987	G	Sidechain
46	DN	4	TYR	Sidechain

## 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	AA	32329	0	16318	2215	0
1	CA	32329	0	16318	2218	0
2	AB	1901	0	1951	376	1
2	CB	1901	0	1951	383	1
3	AC	1613	0	1677	265	0
3	CC	1613	0	1677	260	0
4	AD	1703	0	1764	296	0
4	CD	1703	0	1765	305	0
5	AE	1147	0	1207	196	0
5	CE	1147	0	1207	198	0
6	AF	843	0	857	86	0
6	CF	843	0	857	101	0
7	AG	1257	0	1296	187	0
7	CG	1257	0	1296	187	0
8	AH	1116	0	1177	192	0
8	CH	1116	0	1177	204	0
9	AI	1010	0	1037	165	0
9	CI	1010	0	1037	168	0
10	AJ	795	0	840	197	0
10	CJ	795	0	840	209	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	AK	885	0	904	130	0
11	CK	885	0	904	124	0
12	AL	971	0	1057	156	0
12	CL	971	0	1057	149	0
13	AM	988	0	1059	215	0
13	CM	988	0	1059	208	0
14	AN	492	0	529	130	0
14	CN	492	0	529	129	0
15	AO	734	0	771	94	0
15	CO	734	0	771	97	0
16	AP	701	0	720	116	0
16	CP	701	0	720	114	0
17	AQ	824	0	891	88	0
17	CQ	824	0	891	89	0
18	AR	574	0	644	97	0
18	CR	574	0	644	95	0
19	AS	630	0	652	129	0
19	CS	630	0	652	129	0
20	AT	763	0	861	148	0
20	CT	763	0	861	141	0
21	AU	209	0	221	30	0
21	CU	209	0	221	33	0
22	AV	1619	0	822	99	0
22	AW	1619	0	822	82	0
22	CV	1619	0	822	87	0
22	CW	1619	0	822	90	0
23	AX	272	0	142	23	0
23	CX	272	0	142	21	0
24	AY	1650	0	851	118	0
24	CY	1650	0	851	115	0
25	AZ	2900	0	2907	491	0
25	CZ	2900	0	2907	478	0
26	B0	662	0	688	112	0
26	D0	662	0	688	112	0
27	B1	732	0	808	156	0
27	D1	732	0	808	158	0
28	B2	598	0	653	166	0
28	D2	598	0	653	153	0
29	B3	468	0	523	74	0
29	D3	468	0	523	76	0
30	B4	341	0	337	72	0
30	D4	341	0	337	63	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	B5	459	0	480	98	0
31	D5	459	0	480	100	0
32	B6	433	0	461	157	0
32	D6	433	0	461	162	0
33	B7	419	0	467	71	0
33	D7	419	0	467	76	0
34	B8	508	0	576	141	0
34	D8	508	0	576	147	0
35	B9	307	0	335	74	0
35	D9	307	0	337	78	0
36	BA	62474	0	31497	4307	0
36	DA	62474	0	31497	4322	0
37	BB	2551	0	1295	152	0
37	DB	2551	0	1295	162	0
38	BC	1742	0	1800	269	1
38	DC	1742	0	1800	272	1
39	BD	2145	0	2234	441	0
39	DD	2145	0	2234	438	0
40	BE	1564	0	1629	331	0
40	DE	1564	0	1629	327	0
41	BF	1624	0	1677	362	0
41	DF	1624	0	1677	351	0
42	BG	1474	0	1535	396	0
42	DG	1474	0	1535	365	0
43	BH	1223	0	1282	214	0
43	DH	1223	0	1282	215	0
44	BJ	651	0	136	11	0
44	DJ	651	0	136	9	0
45	BK	701	0	157	35	0
45	DK	701	0	157	34	0
46	BN	1105	0	1180	233	0
46	DN	1105	0	1180	232	0
47	BO	933	0	996	121	0
47	DO	933	0	996	120	0
48	BP	1114	0	1187	309	0
48	DP	1114	0	1187	308	0
49	BQ	1122	0	1179	240	0
49	DQ	1122	0	1179	226	0
50	BR	960	0	1021	198	0
50	DR	960	0	1021	197	0
51	BS	771	0	832	195	0
51	DS	771	0	832	189	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
52	BT	1142	0	1202	274	0
52	DT	1142	0	1202	274	0
53	BU	958	0	1015	223	0
53	DU	958	0	1015	223	0
54	BV	779	0	852	167	0
54	DV	779	0	852	169	0
55	BW	896	0	953	153	0
55	DW	896	0	953	160	0
56	BX	726	0	778	118	0
56	DX	726	0	778	115	0
57	BY	776	0	870	208	0
57	DY	776	0	870	203	0
58	BZ	1403	0	1432	320	0
58	DZ	1403	0	1432	293	0
59	AA	42	0	45	4	0
59	CA	42	0	45	3	0
60	AD	1	0	0	1	0
60	AN	1	0	0	0	0
60	B4	1	0	0	0	0
60	B9	1	0	0	0	0
60	CD	1	0	0	0	0
60	CN	1	0	0	0	0
60	D4	1	0	0	0	0
60	D9	1	0	0	2	0
61	AY	1	0	0	0	0
61	CY	1	0	0	0	0
62	AZ	28	0	12	15	0
62	CZ	28	0	12	15	0
63	AZ	57	0	58	4	0
63	CZ	57	0	59	8	0
All	All	306876	0	208322	30310	2

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 59.

All (30310) 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)
25:AZ:356:PRO:O	25:AZ:359:VAL:CG2	1.74	1.32
27:B1:41:ARG:NH2	36:BA:1365:A:H5''	1.53	1.24
25:CZ:356:PRO:O	25:CZ:359:VAL:HG22	1.38	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:41:G:H2'	24:CY:42:U:H5''	1.24	1.19
32:B6:45:LYS:H	32:B6:45:LYS:CD	1.48	1.19
19:AS:16:LEU:HA	19:AS:19:VAL:HB	1.21	1.18
36:DA:2012:G:H4'	55:DW:96:ILE:HD11	1.25	1.18
19:CS:16:LEU:HA	19:CS:19:VAL:HB	1.19	1.17
25:CZ:355:LEU:HB3	25:CZ:359:VAL:HG23	1.25	1.17
39:DD:147:LEU:HD11	39:DD:183:ARG:NH1	1.60	1.17
57:BY:46:LYS:H	57:BY:62:GLU:HG2	1.10	1.16
32:D6:45:LYS:H	32:D6:45:LYS:CD	1.49	1.16
25:AZ:38:GLU:HG3	25:AZ:189:ARG:NH1	1.60	1.15
24:AY:41:G:H2'	24:AY:42:U:H5''	1.22	1.15
36:BA:1887:C:H2'	36:BA:1888:G:H5''	1.22	1.15
28:D2:38:GLN:HB3	28:D2:44:LEU:HD13	1.24	1.15
12:AL:17:LYS:HD3	12:AL:18:VAL:H	1.12	1.14
24:CY:61:C:H2'	24:CY:62:U:H5''	1.18	1.14
36:DA:655:A:H4'	36:DA:656:G:H5'	1.17	1.14
24:AY:61:C:H2'	24:AY:62:U:H5''	1.16	1.14
36:DA:2523:G:H2'	36:DA:2524:G:H5''	1.23	1.14
1:AA:368:U:H5	25:AZ:234:ARG:HD3	1.05	1.14
8:AH:23:SER:HA	8:AH:63:LEU:HD23	1.22	1.14
36:DA:227:A:H5''	48:DP:76:LYS:HE3	1.29	1.14
27:B1:13:ILE:HD11	36:BA:396:G:H5'	1.14	1.14
56:BX:12:VAL:HB	56:BX:17:ALA:HB1	1.29	1.14
1:CA:8:A:H62	4:CD:208:SER:HB2	1.13	1.14
36:DA:2761:G:H2'	36:DA:2762:G:H5''	1.19	1.13
36:DA:271(M):G:H2'	36:DA:271(N):U:H5''	1.28	1.13
57:DY:50:ARG:HB3	57:DY:53:PRO:HG3	1.26	1.13
1:AA:1470:G:H2'	1:AA:1471:G:H8	1.10	1.13
36:BA:2523:G:H2'	36:BA:2524:G:H5''	1.23	1.13
39:BD:147:LEU:HD11	39:BD:183:ARG:NH1	1.62	1.13
25:CZ:268:THR:HG23	25:CZ:289:LEU:HD23	1.29	1.13
38:DC:94:VAL:HG12	38:DC:95:GLY:H	1.12	1.13
9:AI:53:VAL:HG13	9:AI:95:LYS:HE3	1.30	1.12
27:D1:13:ILE:HD11	36:DA:396:G:H5'	1.20	1.13
36:DA:797:C:H2'	36:DA:798:G:H8	1.13	1.13
25:AZ:356:PRO:O	25:AZ:359:VAL:HG22	1.39	1.12
1:CA:979:C:H3'	1:CA:980:C:H5''	1.14	1.12
1:AA:1189:C:H5''	3:AC:5:ILE:HG21	1.24	1.12
8:CH:23:SER:HA	8:CH:63:LEU:HD23	1.28	1.12
40:DE:57:LYS:HA	40:DE:57:LYS:HE3	1.16	1.12
36:BA:925:C:H2'	36:BA:926:A:H5''	1.14	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:16:LEU:HD11	10:CJ:70:ARG:HG3	1.30	1.11
38:BC:114:VAL:HB	38:BC:149:ILE:HD11	1.16	1.11
57:BY:50:ARG:HB3	57:BY:53:PRO:HG3	1.27	1.11
1:CA:265:G:H2'	1:CA:266:G:H5''	1.26	1.11
36:BA:655:A:H4'	36:BA:656:G:H5'	1.18	1.11
38:DC:114:VAL:HB	38:DC:149:ILE:HD11	1.16	1.11
41:DF:64:ILE:HG23	41:DF:65:TRP:H	1.15	1.11
42:DG:85:GLY:C	42:DG:87:PRO:HD3	1.69	1.11
58:DZ:141:VAL:HA	58:DZ:144:LEU:HD23	1.32	1.11
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.32	1.11
28:B2:51:ARG:HD3	28:B2:55:ARG:HH22	0.96	1.11
36:BA:2761:G:H2'	36:BA:2762:G:H5''	1.16	1.11
43:BH:52:VAL:HB	43:BH:69:ARG:HD3	1.29	1.11
24:CY:40:G:H2'	24:CY:41:G:H5''	1.32	1.11
36:DA:1887:C:H2'	36:DA:1888:G:H5''	1.21	1.11
43:DH:52:VAL:HB	43:DH:69:ARG:HD3	1.27	1.11
41:BF:155:LEU:HA	41:BF:174:VAL:HB	1.33	1.11
36:DA:925:C:H2'	36:DA:926:A:H5''	1.14	1.11
31:B5:4:HIS:HB2	31:B5:5:PRO:HD3	1.28	1.10
34:B8:10:ALA:HA	34:B8:13:ARG:HG2	1.33	1.10
53:DU:112:ARG:HH12	54:DV:46:VAL:HG11	1.09	1.10
36:BA:2502:G:H5''	36:BA:2503:A:H5''	1.30	1.10
10:AJ:16:LEU:HD11	10:AJ:70:ARG:HG3	1.28	1.10
25:AZ:268:THR:HG23	25:AZ:289:LEU:HD23	1.30	1.10
42:BG:63:ILE:HG13	42:BG:64:THR:H	1.10	1.10
1:CA:368:U:H5	25:CZ:234:ARG:HD3	1.11	1.10
36:BA:271(M):G:H2'	36:BA:271(N):U:H5''	1.27	1.10
28:B2:38:GLN:HB3	28:B2:44:LEU:HD13	1.23	1.10
11:CK:124:LYS:HD2	11:CK:125:PHE:HE1	1.17	1.10
55:DW:8:ARG:HA	55:DW:102:HIS:HB3	1.29	1.10
27:D1:62:VAL:HG21	27:D1:67:ILE:HA	1.20	1.09
36:DA:2645:G:H3'	36:DA:2646:C:H5'	1.34	1.09
56:DX:12:VAL:HB	56:DX:17:ALA:HB1	1.28	1.09
1:CA:1189:C:H5''	3:CC:5:ILE:HG21	1.22	1.09
36:DA:2523:G:C2'	36:DA:2524:G:H5''	1.81	1.09
36:DA:2502:G:H5''	36:DA:2503:A:H5''	1.28	1.09
36:BA:227:A:H5''	48:BP:76:LYS:HE3	1.25	1.09
36:BA:797:C:H2'	36:BA:798:G:H8	1.12	1.09
36:BA:833:U:H5''	48:BP:48:PRO:HB3	1.35	1.09
36:BA:2523:G:C2'	36:BA:2524:G:H5''	1.82	1.09
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.32	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:29:ASN:HD22	41:BF:32:LEU:HB2	1.18	1.09
26:D0:11:ARG:HB2	26:D0:11:ARG:HH11	1.15	1.09
25:AZ:138:VAL:HG21	25:AZ:173:GLY:H	0.92	1.08
36:BA:1484:G:H2'	36:BA:1485:G:H5''	1.35	1.08
42:BG:67:LYS:HD3	42:BG:67:LYS:N	1.64	1.08
1:AA:386:C:H2'	1:AA:387:U:H5'	1.35	1.08
27:B1:41:ARG:HH22	36:BA:1365:A:C5'	1.66	1.08
36:BA:511:U:H3'	36:BA:512:G:H5''	1.35	1.08
8:CH:10:LEU:HD22	8:CH:83:ILE:HD11	1.17	1.08
36:DA:94(A):G:H2'	36:DA:95:G:H5''	1.35	1.08
48:DP:146:VAL:HG22	48:DP:147:LEU:H	1.15	1.08
49:BQ:134:ARG:HD2	58:BZ:122:ARG:HH22	1.11	1.08
9:CI:53:VAL:HG13	9:CI:95:LYS:HE3	1.36	1.08
1:AA:265:G:H2'	1:AA:266:G:H5''	1.23	1.08
53:BU:112:ARG:HH12	54:BV:46:VAL:HG11	1.13	1.08
51:BS:13:ARG:HG3	51:BS:14:VAL:H	1.19	1.08
1:CA:1053:G:H4'	1:CA:1054:C:H5'	1.31	1.08
34:D8:10:ALA:HA	34:D8:13:ARG:HG2	1.34	1.08
8:AH:10:LEU:HD22	8:AH:83:ILE:HD11	1.23	1.07
25:AZ:189:ARG:HG3	25:AZ:190:ARG:H	0.92	1.07
25:AZ:264:ARG:HH11	25:AZ:264:ARG:HG2	1.05	1.07
32:B6:19:ARG:HD3	36:BA:2400:G:H4'	1.30	1.07
38:BC:94:VAL:HG12	38:BC:95:GLY:H	1.12	1.07
57:DY:46:LYS:H	57:DY:62:GLU:HG2	1.12	1.07
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.34	1.07
32:D6:27:LYS:HG3	32:D6:30:THR:HB	1.36	1.07
41:DF:155:LEU:HA	41:DF:174:VAL:HB	1.35	1.07
28:B2:41:ILE:HG13	28:B2:42:GLY:H	1.12	1.07
40:BE:57:LYS:HA	40:BE:57:LYS:HE3	1.19	1.07
49:BQ:134:ARG:HD2	58:BZ:122:ARG:NH2	1.68	1.07
25:AZ:356:PRO:O	25:AZ:359:VAL:HG23	1.51	1.07
36:BA:94(A):G:H2'	36:BA:95:G:H5''	1.34	1.07
1:CA:736:C:H2'	1:CA:737:A:C8	1.89	1.07
3:CC:22:TRP:HZ3	3:CC:24:ALA:HB2	1.13	1.07
38:DC:23:ASP:HB3	38:DC:27:ARG:HH12	1.17	1.07
24:AY:40:G:H2'	24:AY:41:G:H5''	1.31	1.07
32:B6:27:LYS:HG3	32:B6:30:THR:HB	1.37	1.07
36:BA:2012:G:H4'	55:BW:96:ILE:HD11	1.27	1.07
36:BA:2840:C:H5''	50:BR:53:HIS:CD2	1.88	1.07
42:BG:39:ILE:HD11	42:BG:60:LEU:HD11	1.27	1.07
12:CL:18:VAL:HG23	12:CL:19:ARG:H	1.15	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:146:VAL:HG22	48:BP:147:LEU:H	1.14	1.06
36:DA:1516:C:H2'	36:DA:1517:G:H5''	1.36	1.06
1:AA:1047:G:H5''	14:AN:4:LYS:HE2	1.37	1.06
12:AL:18:VAL:HG23	12:AL:19:ARG:H	1.13	1.06
13:AM:97:PRO:HA	13:AM:110:ARG:HD3	1.37	1.06
55:BW:8:ARG:HA	55:BW:102:HIS:HB3	1.27	1.06
13:CM:97:PRO:HA	13:CM:110:ARG:HD3	1.36	1.06
36:DA:2807:G:H3'	36:DA:2808:U:H5''	1.36	1.06
3:AC:22:TRP:HZ3	3:AC:24:ALA:HB2	1.16	1.06
48:BP:9:ASN:H	48:BP:10:PRO:HD2	1.18	1.06
36:DA:925:C:C2'	36:DA:926:A:H5''	1.86	1.06
36:DA:2672:G:H2'	36:DA:2673:G:H5''	1.36	1.06
56:DX:36:LYS:HA	56:DX:39:ILE:HB	1.34	1.06
1:AA:8:A:H62	4:AD:208:SER:HB2	1.19	1.06
32:D6:19:ARG:HD3	36:DA:2400:G:H4'	1.31	1.06
36:BA:2807:G:H3'	36:BA:2808:U:H5''	1.34	1.06
52:BT:28:VAL:HG22	52:BT:47:GLY:H	1.14	1.06
56:BX:36:LYS:HA	56:BX:39:ILE:HB	1.34	1.06
25:CZ:138:VAL:HG21	25:CZ:173:GLY:H	0.92	1.06
39:DD:147:LEU:HD11	39:DD:183:ARG:HH12	0.94	1.06
38:BC:23:ASP:HB3	38:BC:27:ARG:HH12	1.13	1.05
25:CZ:355:LEU:HB3	25:CZ:359:VAL:CG2	1.83	1.05
36:DA:833:U:H5''	48:DP:48:PRO:HB3	1.31	1.05
36:DA:1484:G:H2'	36:DA:1485:G:H5''	1.35	1.05
52:DT:55:ASN:H	52:DT:59:THR:HG22	1.19	1.05
25:AZ:355:LEU:HD23	25:AZ:370:PHE:HB3	1.36	1.05
58:BZ:152:ALA:HB1	58:BZ:167:PRO:HB2	1.36	1.05
4:CD:28:SER:HB3	4:CD:29:PRO:HD2	1.36	1.05
57:DY:96:ILE:HG13	57:DY:99:CYS:HB3	1.34	1.05
1:AA:736:C:H2'	1:AA:737:A:C8	1.91	1.05
1:AA:979:C:H3'	1:AA:980:C:H5''	1.14	1.05
7:AG:12:LEU:HD11	7:AG:25:ALA:HB2	1.38	1.05
36:BA:797:C:H2'	36:BA:798:G:C8	1.92	1.05
35:D9:10:ILE:HD12	35:D9:10:ILE:H	1.17	1.05
4:AD:28:SER:HB3	4:AD:29:PRO:HD2	1.35	1.05
25:AZ:135:MET:O	25:AZ:138:VAL:HG22	1.56	1.05
26:B0:11:ARG:HB2	26:B0:11:ARG:HH11	1.16	1.05
36:BA:582:G:H2'	36:BA:583:G:H8	1.16	1.05
36:BA:925:C:C2'	36:BA:926:A:H5''	1.85	1.05
36:BA:2645:G:H3'	36:BA:2646:C:H5'	1.37	1.05
39:BD:147:LEU:HD11	39:BD:183:ARG:HH12	0.94	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:147:LEU:CD1	39:DD:183:ARG:HH12	1.68	1.05
1:CA:386:C:H2'	1:CA:387:U:H5'	1.36	1.05
37:DB:80:U:H2'	37:DB:81:G:H21	1.17	1.05
41:DF:29:ASN:HD22	41:DF:32:LEU:HB2	1.17	1.05
36:BA:1710:C:H2'	36:BA:1711:C:H6	1.20	1.04
25:CZ:135:MET:O	25:CZ:138:VAL:HG22	1.55	1.04
47:BO:2:ILE:HD11	47:BO:82:ASN:HD22	1.16	1.04
58:BZ:96:VAL:HG22	58:BZ:97:GLU:H	1.15	1.04
48:DP:9:ASN:H	48:DP:10:PRO:HD2	1.18	1.04
31:D5:4:HIS:HB2	31:D5:5:PRO:HD3	1.31	1.04
56:DX:12:VAL:HG23	56:DX:13:LEU:H	1.19	1.04
36:DA:1710:C:H2'	36:DA:1711:C:H6	1.20	1.04
58:DZ:152:ALA:HB1	58:DZ:167:PRO:HB2	1.35	1.04
24:AY:56:C:H2'	24:AY:57:G:H5'	1.38	1.04
1:CA:1116:C:H2'	1:CA:1117:G:H5''	1.36	1.04
7:CG:69:VAL:HA	7:CG:138:LYS:HD2	1.39	1.04
22:CV:68:C:H2'	22:CV:69:G:H5''	1.39	1.04
39:DD:112:GLN:H	39:DD:115:GLN:NE2	1.56	1.04
1:AA:965:A:H4'	1:AA:966:G:OP1	1.56	1.03
22:AV:68:C:H2'	22:AV:69:G:H5''	1.40	1.03
36:BA:2672:G:H2'	36:BA:2673:G:H5''	1.37	1.03
12:CL:17:LYS:HD3	12:CL:18:VAL:H	1.17	1.03
47:DO:2:ILE:HD11	47:DO:82:ASN:HD22	1.18	1.03
3:AC:189:ALA:HB3	3:AC:196:LEU:HB2	1.41	1.03
37:BB:80:U:H2'	37:BB:81:G:H21	1.23	1.03
39:BD:147:LEU:CD1	39:BD:183:ARG:HH12	1.70	1.03
3:CC:189:ALA:HB3	3:CC:196:LEU:HB2	1.37	1.03
36:DA:2833:G:H3'	36:DA:2834:G:C5'	1.88	1.03
1:AA:1491:G:H2'	59:AA:1601:PAR:O31	1.59	1.03
11:AK:124:LYS:HD2	11:AK:125:PHE:HE1	1.18	1.03
36:BA:1516:C:H2'	36:BA:1517:G:H5''	1.37	1.03
19:AS:44:MET:HA	19:AS:47:HIS:HD2	1.22	1.03
28:B2:35:LEU:HD11	28:B2:50:ILE:HG13	1.40	1.03
36:BA:1024:G:H3'	36:BA:1025:G:H5''	1.41	1.03
47:BO:114:ILE:HD12	47:BO:114:ILE:H	1.18	1.03
4:AD:187:ARG:HB3	4:AD:187:ARG:HH11	1.24	1.03
36:BA:2833:G:H3'	36:BA:2834:G:C5'	1.87	1.03
41:BF:72:ARG:HH11	41:BF:72:ARG:HA	1.20	1.03
6:CF:96:PRO:HB3	18:CR:30:ASP:OD2	1.58	1.03
36:DA:582:G:H2'	36:DA:583:G:H8	1.17	1.03
36:DA:797:C:H2'	36:DA:798:G:C8	1.94	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1665:A:C2'	36:DA:1666:G:H5''	1.89	1.03
40:DE:167:VAL:HG13	40:DE:170:LEU:HD11	1.40	1.03
51:DS:13:ARG:HG3	51:DS:14:VAL:H	1.19	1.03
52:DT:28:VAL:HG22	52:DT:47:GLY:H	1.16	1.03
24:AY:61:C:C2'	24:AY:62:U:H5''	1.89	1.02
24:CY:56:C:H2'	24:CY:57:G:H5'	1.37	1.02
25:AZ:138:VAL:HG21	25:AZ:173:GLY:N	1.75	1.02
42:BG:163:ALA:HB1	42:BG:169:ALA:HB2	1.39	1.02
57:BY:96:ILE:HG13	57:BY:99:CYS:HB3	1.37	1.02
26:D0:40:GLN:HE22	26:D0:43:THR:HA	1.22	1.02
31:D5:41:PRO:HG2	31:D5:44:THR:OG1	1.58	1.02
1:AA:1423:G:H2'	1:AA:1424:C:C6	1.95	1.02
32:B6:5:VAL:HG11	36:BA:2283:C:H5'	1.37	1.02
35:B9:10:ILE:HD12	35:B9:10:ILE:H	1.21	1.02
5:CE:33:VAL:HG21	5:CE:109:ILE:HG12	1.34	1.02
22:CV:20:U:H3'	22:CV:21:A:H5'	1.39	1.02
36:DA:1024:G:H3'	36:DA:1025:G:H5''	1.41	1.02
36:DA:2185:C:H2'	36:DA:2186:G:H5'	1.41	1.02
1:AA:17:U:H2'	1:AA:18:C:C6	1.95	1.02
14:AN:13:THR:N	14:AN:14:PRO:HD2	1.73	1.02
46:BN:133:GLN:HG2	46:BN:135:PRO:HD3	1.41	1.02
1:CA:1047:G:H5''	14:CN:4:LYS:HE2	1.39	1.02
1:CA:1423:G:H2'	1:CA:1424:C:H6	1.25	1.02
51:DS:49:VAL:HG12	51:DS:50:SER:H	1.23	1.02
56:DX:65:ARG:HG2	56:DX:66:LEU:H	1.25	1.02
26:B0:40:GLN:HE22	26:B0:43:THR:HA	1.23	1.02
55:BW:5:ALA:HB2	55:BW:54:ALA:HB2	1.41	1.02
56:BX:12:VAL:HG23	56:BX:13:LEU:H	1.20	1.02
1:CA:17:U:H2'	1:CA:18:C:C6	1.95	1.02
1:CA:1301:U:H3'	1:CA:1302:U:H5''	1.41	1.02
2:AB:21:ARG:HB3	2:AB:39:ILE:HG23	1.40	1.01
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.42	1.01
36:BA:1590:U:H2'	36:BA:1591:G:H5''	1.40	1.01
40:BE:167:VAL:HG13	40:BE:170:LEU:HD11	1.39	1.01
32:D6:45:LYS:H	32:D6:45:LYS:HD3	1.24	1.01
36:DA:511:U:H3'	36:DA:512:G:H5''	1.39	1.01
39:DD:224:ALA:HB2	39:DD:233:HIS:HB3	1.38	1.01
46:DN:133:GLN:HG2	46:DN:135:PRO:HD3	1.43	1.01
25:AZ:191:GLY:HA3	25:AZ:197:ASP:HB2	1.39	1.01
41:BF:9:ILE:HG12	41:BF:14:PRO:HA	1.43	1.01
48:BP:59:LEU:HA	48:BP:61:ARG:NE	1.74	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1190:G:H3'	3:CC:3:ASN:HD21	1.22	1.01
7:CG:12:LEU:HD11	7:CG:25:ALA:HB2	1.42	1.01
55:DW:5:ALA:HB2	55:DW:54:ALA:HB2	1.43	1.01
2:AB:200:ILE:HD12	2:AB:200:ILE:H	1.25	1.01
9:AI:52:ALA:HB3	9:AI:95:LYS:HE2	1.41	1.01
31:B5:41:PRO:HG2	31:B5:44:THR:OG1	1.60	1.01
51:BS:49:VAL:HG12	51:BS:50:SER:H	1.21	1.01
24:CY:16:H2U:H5''	24:CY:16:H2U:H61	1.43	1.01
47:DO:114:ILE:HD12	47:DO:114:ILE:H	1.19	1.01
2:AB:87:ARG:HE	2:AB:233:SER:HB3	1.21	1.01
36:BA:582:G:H2'	36:BA:583:G:C8	1.96	1.01
36:BA:2184:G:H2'	36:BA:2185:C:H1'	1.41	1.01
48:DP:59:LEU:HA	48:DP:61:ARG:NE	1.75	1.01
36:BA:1380:G:H2'	36:BA:1381:G:H8	1.24	1.01
36:BA:2712:U:H1'	36:BA:2712(A):A:C8	1.96	1.01
57:BY:8:LYS:HD2	57:BY:8:LYS:H	1.21	1.01
2:CB:87:ARG:HE	2:CB:233:SER:HB3	1.20	1.01
3:CC:91:LEU:HD11	3:CC:101:LEU:HD12	1.42	1.01
4:CD:187:ARG:HB3	4:CD:187:ARG:HH11	1.23	1.01
54:DV:4:ILE:HG22	54:DV:39:LEU:HD23	1.39	1.01
5:AE:33:VAL:HG21	5:AE:109:ILE:HG12	1.37	1.00
22:AV:20:U:H3'	22:AV:21:A:H5'	1.40	1.00
24:AY:1:G:H1'	25:AZ:300:ARG:NH2	1.75	1.00
25:AZ:336:SER:OG	25:AZ:355:LEU:HB2	1.59	1.00
34:B8:15:LYS:HD3	48:BP:65:ARG:HH22	1.23	1.00
36:BA:2511:U:H4'	40:BE:124:GLY:HA2	1.41	1.00
14:CN:57:ARG:HB3	14:CN:57:ARG:HH11	1.26	1.00
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.38	1.00
36:BA:1598:C:H5'	56:BX:36:LYS:HG2	1.41	1.00
46:BN:55:VAL:HG22	46:BN:126:PRO:HA	1.40	1.00
19:CS:44:MET:HA	19:CS:47:HIS:HD2	1.26	1.00
36:DA:1598:C:H5'	56:DX:36:LYS:HG2	1.42	1.00
36:DA:2840:C:H5''	50:DR:53:HIS:CD2	1.95	1.00
48:DP:62:LEU:N	48:DP:62:LEU:HD23	1.76	1.00
1:AA:1483:A:H2	36:BA:1960:A:H1'	1.25	1.00
14:AN:57:ARG:HB3	14:AN:57:ARG:HH11	1.24	1.00
27:B1:4:VAL:HG23	27:B1:11:ARG:HG2	1.44	1.00
36:BA:143:G:H4'	56:BX:35:THR:HG21	1.43	1.00
36:BA:740:U:H2'	36:BA:741:G:C8	1.96	1.00
1:CA:1366:C:H2'	1:CA:1367:C:H6	1.27	1.00
36:DA:1590:U:H2'	36:DA:1591:G:H5''	1.39	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:55:ASN:H	52:BT:59:THR:HG22	1.22	1.00
34:D8:15:LYS:HD3	48:DP:65:ARG:HH22	1.22	1.00
57:DY:8:LYS:HD2	57:DY:8:LYS:H	1.23	1.00
16:AP:20:VAL:HG23	16:AP:35:LYS:HA	1.43	1.00
36:BA:1665:A:C2'	36:BA:1666:G:H5''	1.91	1.00
41:BF:64:ILE:HG23	41:BF:65:TRP:H	1.24	1.00
52:BT:61:PHE:HE2	52:BT:76:PHE:HB2	1.26	1.00
16:CP:8:ARG:NH2	16:CP:15:PRO:HG3	1.77	1.00
34:D8:50:LEU:HD12	34:D8:51:ALA:H	1.23	1.00
7:AG:69:VAL:HA	7:AG:138:LYS:HD2	1.42	1.00
1:CA:1003:G:H2'	1:CA:1004:A:H4'	1.43	1.00
7:AG:69:VAL:HG11	7:AG:104:LEU:HD21	1.43	0.99
1:CA:78:G:H22	1:CA:91:C:H42	1.00	0.99
10:CJ:78:ASN:HD22	10:CJ:81:THR:HG21	1.25	0.99
36:DA:582:G:H2'	36:DA:583:G:C8	1.97	0.99
36:DA:1092:C:H42	36:DA:1100:C:H42	1.05	0.99
24:AY:16:H2U:H5''	24:AY:16:H2U:H61	1.43	0.99
13:CM:66:LEU:HA	13:CM:70:LEU:HD12	1.44	0.99
20:CT:73:HIS:HB3	20:CT:74:LYS:HD3	1.45	0.99
52:DT:61:PHE:HE2	52:DT:76:PHE:HB2	1.26	0.99
1:AA:150:C:H2'	1:AA:151:A:H5''	1.44	0.99
6:AF:96:PRO:HB3	18:AR:30:ASP:OD2	1.62	0.99
32:B6:45:LYS:H	32:B6:45:LYS:HD3	1.22	0.99
34:B8:50:LEU:HD12	34:B8:51:ALA:H	1.25	0.99
55:BW:36:LEU:H	55:BW:36:LEU:HD23	1.25	0.99
57:DY:67:LEU:HD21	57:DY:71:LYS:HE2	1.42	0.99
1:AA:368:U:C5	25:AZ:234:ARG:HD3	1.97	0.99
10:CJ:54:PHE:C	10:CJ:55:LYS:HE3	1.82	0.99
22:CW:54:U:H4'	38:DC:54:SER:HB2	1.44	0.99
32:D6:5:VAL:HG11	36:DA:2283:C:H5'	1.41	0.99
36:DA:1465:G:H2'	36:DA:1466:G:H8	1.27	0.99
36:DA:1665:A:H2'	36:DA:1666:G:H5''	1.43	0.99
22:AV:53:G:H1	22:AV:61:C:H42	1.10	0.99
58:BZ:58:VAL:HG22	58:BZ:68:PRO:HA	1.45	0.99
5:CE:50:GLU:HG3	5:CE:52:PRO:HD2	1.45	0.99
57:BY:67:LEU:HD21	57:BY:71:LYS:HE2	1.44	0.99
9:CI:43:ALA:HA	9:CI:74:ILE:HG21	1.44	0.99
24:CY:61:C:C2'	24:CY:62:U:H5''	1.92	0.99
25:CZ:138:VAL:HG21	25:CZ:173:GLY:N	1.75	0.99
40:DE:199:ARG:HG2	40:DE:200:GLU:H	1.27	0.99
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	1.78	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:277:LEU:HD12	25:AZ:280:GLY:H	1.27	0.99
1:CA:155:C:H2'	1:CA:156:G:H8	1.27	0.99
36:DA:2892:A:H62	36:DA:2893:G:H21	1.08	0.99
36:BA:662:G:H2'	36:BA:663:G:H8	1.27	0.99
2:CB:21:ARG:HB3	2:CB:39:ILE:HG23	1.43	0.99
7:CG:69:VAL:HG11	7:CG:104:LEU:HD21	1.44	0.99
36:DA:143:G:H4'	56:DX:35:THR:HG21	1.44	0.99
1:AA:1190:G:H3'	3:AC:3:ASN:HD21	1.27	0.99
36:DA:2464:C:HO2'	36:DA:2465:C:H6	1.08	0.99
41:DF:72:ARG:HH11	41:DF:72:ARG:HA	1.22	0.99
1:AA:1301:U:H3'	1:AA:1302:U:H5''	1.43	0.98
11:AK:22:HIS:HB3	11:AK:29:ILE:HG23	1.41	0.98
39:BD:224:ALA:HB2	39:BD:233:HIS:HB3	1.42	0.98
55:DW:36:LEU:H	55:DW:36:LEU:HD23	1.25	0.98
58:DZ:86:VAL:HG12	58:DZ:87:ASP:H	1.26	0.98
25:AZ:189:ARG:CG	25:AZ:190:ARG:H	1.75	0.98
36:BA:523:C:H2'	36:BA:524:U:H5'	1.45	0.98
36:DA:710:G:H2'	36:DA:711:G:H8	1.26	0.98
36:DA:2184:G:H2'	36:DA:2185:C:H1'	1.42	0.98
46:DN:55:VAL:HG22	46:DN:126:PRO:HA	1.44	0.98
1:AA:1512:U:H2'	1:AA:1513:A:H8	1.28	0.98
36:BA:1665:A:H2'	36:BA:1666:G:H5''	1.45	0.98
42:BG:34:LEU:HA	42:BG:161:THR:HG22	1.45	0.98
58:BZ:10:ARG:HE	58:BZ:36:LYS:HB2	1.24	0.98
16:CP:20:VAL:HG23	16:CP:35:LYS:HA	1.45	0.98
7:AG:108:ALA:O	7:AG:111:ARG:HB2	1.62	0.98
48:BP:62:LEU:N	48:BP:62:LEU:HD23	1.78	0.98
36:DA:1067:A:H3'	36:DA:1068:G:H5''	1.46	0.98
41:DF:9:ILE:HG12	41:DF:14:PRO:HA	1.41	0.98
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.44	0.98
30:B4:22:ILE:HD12	30:B4:22:ILE:H	1.28	0.98
36:BA:2892:A:H62	36:BA:2893:G:H21	1.07	0.98
43:BH:37:VAL:HG12	43:BH:38:SER:H	1.26	0.98
36:DA:862:G:H2'	36:DA:863:A:O4'	1.63	0.98
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.43	0.98
14:CN:13:THR:N	14:CN:14:PRO:HD2	1.76	0.98
25:CZ:191:GLY:HA3	25:CZ:197:ASP:HB2	1.40	0.98
34:B8:15:LYS:HD3	48:BP:65:ARG:NH2	1.78	0.98
43:BH:33:LEU:HD12	43:BH:75:ALA:HA	1.45	0.98
1:AA:962:C:H42	1:AA:974:A:H61	1.11	0.98
13:AM:19:LEU:HB3	13:AM:25:ILE:HG21	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:17:G:H22	36:DA:524:U:H1'	1.26	0.98
39:DD:261:LYS:NZ	39:DD:263:ARG:HB2	1.77	0.98
40:BE:199:ARG:HG2	40:BE:200:GLU:H	1.28	0.98
1:CA:1305:G:N2	1:CA:1331:G:H2'	1.79	0.98
36:DA:271(P):C:H2'	36:DA:271(Q):G:H5'	1.44	0.98
43:DH:37:VAL:HG12	43:DH:38:SER:H	1.29	0.98
42:BG:7:LEU:HB3	42:BG:100:TRP:HE3	1.29	0.98
4:CD:108:LEU:HD11	4:CD:176:LEU:HD13	1.43	0.98
36:DA:27:G:N2	36:DA:512:G:H2'	1.78	0.98
27:B1:45:ASN:HB3	27:B1:64:ALA:HB2	1.45	0.97
28:B2:6:VAL:HA	28:B2:9:GLN:HB2	1.46	0.97
36:BA:2761:G:C2'	36:BA:2762:G:H5''	1.93	0.97
54:BV:4:ILE:HG22	54:BV:39:LEU:HD23	1.42	0.97
1:CA:1205:U:H4'	3:CC:195:VAL:HG21	1.43	0.97
1:CA:1440:C:H1'	1:CA:1462:G:N2	1.77	0.97
8:CH:30:ARG:HB3	8:CH:30:ARG:NH1	1.79	0.97
36:DA:271(L):U:H5''	36:DA:271(M):G:H5'	1.45	0.97
10:AJ:54:PHE:C	10:AJ:55:LYS:HE3	1.82	0.97
10:AJ:78:ASN:HD22	10:AJ:81:THR:HG21	1.26	0.97
25:AZ:259:ALA:HB1	25:AZ:260:PRO:HD2	1.45	0.97
28:B2:51:ARG:HD3	28:B2:55:ARG:NH2	1.79	0.97
36:BA:1394:U:H4'	36:BA:1603:A:H4'	1.45	0.97
39:BD:112:GLN:H	39:BD:115:GLN:NE2	1.62	0.97
39:BD:166:GLN:HA	39:BD:166:GLN:HE21	1.27	0.97
36:DA:2511:U:H4'	40:DE:124:GLY:HA2	1.47	0.97
1:CA:979:C:H3'	1:CA:980:C:C5'	1.93	0.97
36:DA:740:U:H2'	36:DA:741:G:C8	1.99	0.97
36:DA:1380:G:H2'	36:DA:1381:G:H8	1.27	0.97
37:DB:7:G:H3'	37:DB:8:U:H5''	1.46	0.97
57:DY:95:LYS:HG3	57:DY:100:ALA:HA	1.43	0.97
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.27	0.97
3:AC:26:LYS:HG3	3:AC:27:LYS:HG3	1.45	0.97
36:DA:1759:A:H2'	36:DA:1760:A:C8	1.99	0.97
14:AN:22:THR:HB	14:AN:33:VAL:HG21	1.46	0.97
36:BA:266:G:H2'	36:BA:267:C:H5''	1.44	0.97
36:BA:598:G:H5'	48:BP:15:ARG:HD3	1.47	0.97
47:BO:2:ILE:HD11	47:BO:82:ASN:ND2	1.80	0.97
36:DA:662:G:H2'	36:DA:663:G:H8	1.26	0.97
36:DA:2506:U:H5'	36:DA:2506:U:C6	2.00	0.97
39:DD:166:GLN:HA	39:DD:166:GLN:HE21	1.25	0.97
36:BA:1067:A:H3'	36:BA:1068:G:H5''	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:200:ILE:HD12	2:CB:200:ILE:H	1.30	0.97
25:CZ:72:THR:HG22	25:CZ:203:LEU:HD23	1.43	0.97
34:D8:15:LYS:HD3	48:DP:65:ARG:NH2	1.77	0.97
36:DA:266:G:H2'	36:DA:267:C:H5''	1.44	0.97
38:DC:42:GLU:HB2	38:DC:215:THR:HG23	1.45	0.97
38:DC:82:LYS:HG3	38:DC:147:PHE:HD1	1.29	0.97
40:DE:120:TRP:CD1	40:DE:155:LYS:HB3	1.98	0.97
36:BA:1494:A:H2'	36:BA:1495:A:H5''	1.44	0.97
36:BA:1759:A:H2'	36:BA:1760:A:H8	1.29	0.97
9:CI:52:ALA:HB3	9:CI:95:LYS:HE2	1.42	0.97
13:CM:19:LEU:HB3	13:CM:25:ILE:HG21	1.46	0.97
36:BA:695:G:OP1	36:BA:1380:G:H4'	1.64	0.97
52:BT:24:PRO:HD3	52:BT:52:ILE:HD12	1.47	0.97
1:AA:1305:G:N2	1:AA:1331:G:H2'	1.79	0.97
36:BA:27:G:N2	36:BA:512:G:H2'	1.79	0.97
36:BA:2640:G:H2'	36:BA:2641:G:H5''	1.47	0.97
42:BG:52:ILE:HD13	42:BG:52:ILE:H	1.29	0.97
52:BT:58:ASN:ND2	52:BT:58:ASN:H	1.63	0.97
1:CA:1305:G:HO2'	1:CA:1306:A:H8	1.01	0.97
14:CN:22:THR:HB	14:CN:33:VAL:HG21	1.45	0.97
25:CZ:259:ALA:HB1	25:CZ:260:PRO:HD2	1.46	0.97
32:D6:19:ARG:HG3	32:D6:20:ASN:H	1.28	0.97
36:BA:1759:A:H2'	36:BA:1760:A:C8	1.98	0.97
43:BH:20:ALA:HB3	43:BH:23:ARG:HB2	1.45	0.97
36:DA:459:U:H2'	36:DA:460:A:H8	1.29	0.97
42:DG:131:TYR:HE2	42:DG:133:LEU:HB3	1.30	0.97
1:AA:979:C:H3'	1:AA:980:C:C5'	1.93	0.96
36:BA:1494:A:C2'	36:BA:1495:A:H5''	1.95	0.96
37:BB:7:G:H3'	37:BB:8:U:H5''	1.47	0.96
39:BD:261:LYS:NZ	39:BD:263:ARG:HB2	1.79	0.96
40:BE:36:ARG:NH2	40:BE:88:GLY:HA2	1.79	0.96
3:CC:26:LYS:HG3	3:CC:27:LYS:HG3	1.46	0.96
11:CK:22:HIS:HB3	11:CK:29:ILE:HG23	1.42	0.96
25:CZ:277:LEU:HD12	25:CZ:280:GLY:H	1.28	0.96
36:BA:2185:C:H2'	36:BA:2186:G:H5'	1.44	0.96
36:BA:2822:G:H2'	36:BA:2823:A:H5''	1.47	0.96
36:DA:1378:A:H4'	36:DA:1379:A:OP1	1.63	0.96
40:DE:198:VAL:HG12	40:DE:199:ARG:H	1.26	0.96
36:BA:1465:G:H2'	36:BA:1466:G:H8	1.28	0.96
36:BA:2464:C:HO2'	36:BA:2465:C:H6	1.08	0.96
10:CJ:43:ARG:HB2	10:CJ:67:THR:CG2	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1205:U:H4'	3:AC:195:VAL:HG21	1.45	0.96
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.44	0.96
36:DA:2761:G:C2'	36:DA:2762:G:H5''	1.95	0.96
25:AZ:388:ILE:O	25:AZ:395:VAL:HG22	1.64	0.96
50:BR:99:LYS:HD2	50:BR:99:LYS:H	1.27	0.96
3:CC:22:TRP:CZ3	3:CC:24:ALA:HB2	2.00	0.96
52:DT:82:LEU:HD12	52:DT:82:LEU:H	1.27	0.96
1:AA:155:C:H2'	1:AA:156:G:H8	1.30	0.96
9:AI:48:GLU:HA	9:AI:51:ARG:HD2	1.44	0.96
20:AT:73:HIS:HB3	20:AT:74:LYS:HD3	1.46	0.96
57:BY:8:LYS:HB2	57:BY:28:LYS:NZ	1.80	0.96
25:CZ:355:LEU:HD23	25:CZ:370:PHE:HB3	1.43	0.96
28:D2:69:ARG:NH2	36:DA:111:A:H4'	1.80	0.96
57:DY:7:VAL:HB	57:DY:8:LYS:HD2	1.45	0.96
36:BA:1177:A:H5'	36:BA:1178:C:C6	2.01	0.96
1:CA:982:U:H4'	1:CA:983:A:O5'	1.64	0.96
43:DH:85:LYS:HZ3	43:DH:133:VAL:H	1.08	0.96
32:B6:19:ARG:HG3	32:B6:20:ASN:H	1.27	0.96
50:BR:96:ARG:HH12	50:BR:117:VAL:HG23	1.30	0.96
56:BX:12:VAL:HG23	56:BX:13:LEU:N	1.81	0.96
42:DG:60:LEU:HD13	42:DG:63:ILE:HD11	1.44	0.96
57:DY:8:LYS:HB2	57:DY:28:LYS:NZ	1.80	0.96
10:AJ:50:ILE:HD13	10:AJ:50:ILE:H	1.28	0.96
25:AZ:189:ARG:HG3	25:AZ:190:ARG:N	1.76	0.96
38:BC:127:LEU:CD2	38:BC:130:ILE:HD12	1.96	0.96
40:BE:120:TRP:CD1	40:BE:155:LYS:HB3	2.00	0.96
47:BO:35:VAL:HG11	47:BO:103:ALA:HB3	1.48	0.96
52:BT:82:LEU:HD12	52:BT:82:LEU:H	1.27	0.96
36:DA:1177:A:H5'	36:DA:1178:C:C6	2.01	0.96
24:AY:11:C:H2'	24:AY:12:U:H5''	1.45	0.96
52:BT:28:VAL:O	52:BT:29:ARG:HD3	1.64	0.96
36:DA:2306:C:H4'	42:DG:136:ARG:HH22	1.29	0.96
36:DA:2306:C:H4'	42:DG:136:ARG:NH2	1.81	0.96
43:DH:33:LEU:HD12	43:DH:75:ALA:HA	1.47	0.96
48:DP:39:LYS:HE2	48:DP:42:SER:HB3	1.47	0.96
9:AI:43:ALA:HA	9:AI:74:ILE:HG21	1.44	0.95
13:AM:66:LEU:HA	13:AM:70:LEU:HD12	1.44	0.95
40:BE:77:ILE:HG22	40:BE:78:LEU:H	1.29	0.95
57:BY:95:LYS:HG3	57:BY:100:ALA:HA	1.43	0.95
1:CA:452:A:O2'	1:CA:453:A:H5''	1.66	0.95
7:CG:108:ALA:O	7:CG:111:ARG:HB2	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:2:LYS:HB3	36:DA:97:C:H5''	1.46	0.95
36:DA:1394:U:H4'	36:DA:1603:A:H4'	1.46	0.95
47:DO:35:VAL:HG11	47:DO:103:ALA:HB3	1.47	0.95
56:DX:12:VAL:HG23	56:DX:13:LEU:N	1.78	0.95
1:AA:78:G:H22	1:AA:91:C:H42	1.03	0.95
36:BA:330:A:H2	36:BA:1210:A:H2'	1.31	0.95
1:CA:864:A:H5'	1:CA:865:A:OP2	1.65	0.95
24:CY:11:C:H2'	24:CY:12:U:H5''	1.46	0.95
36:DA:1058:G:H2'	36:DA:1059:G:H5''	1.46	0.95
1:AA:18:C:H5''	5:AE:127:ASN:HD21	1.29	0.95
28:B2:69:ARG:HH12	36:BA:111:A:H4'	1.31	0.95
38:DC:74:VAL:HA	38:DC:112:ALA:HB3	1.46	0.95
52:DT:24:PRO:HD3	52:DT:52:ILE:HD12	1.46	0.95
36:BA:459:U:H2'	36:BA:460:A:H8	1.32	0.95
36:BA:710:G:H2'	36:BA:711:G:H8	1.26	0.95
1:CA:965:A:H4'	1:CA:966:G:OP1	1.62	0.95
30:D4:22:ILE:HD12	30:D4:22:ILE:H	1.29	0.95
52:DT:28:VAL:O	52:DT:29:ARG:HD3	1.66	0.95
1:AA:438:G:H5'	4:AD:123:HIS:HD1	1.31	0.95
1:AA:1483:A:C2	36:BA:1960:A:H1'	2.00	0.95
58:BZ:19:ARG:HA	58:BZ:23:LYS:O	1.65	0.95
1:CA:1190:G:H3'	3:CC:3:ASN:ND2	1.80	0.95
21:CU:9:ARG:NH1	21:CU:22:ARG:HG3	1.82	0.95
36:DA:523:C:H2'	36:DA:524:U:H5'	1.45	0.95
46:BN:26:LEU:HD11	46:BN:30:ILE:HD11	1.46	0.95
52:BT:61:PHE:CE2	52:BT:76:PHE:HB2	2.01	0.95
6:CF:56:PRO:HG2	6:CF:57:GLN:HE21	1.30	0.95
58:DZ:33:LEU:HD12	58:DZ:34:ASN:N	1.81	0.95
28:B2:13:ALA:HA	28:B2:16:LEU:HD12	1.47	0.95
36:BA:1092:C:H42	36:BA:1100:C:H42	1.03	0.95
38:BC:42:GLU:HB2	38:BC:215:THR:HG23	1.45	0.95
1:CA:585:G:H4'	12:CL:8:ASN:HD21	1.28	0.95
1:CA:962:C:H42	1:CA:974:A:H61	1.09	0.95
4:CD:131:ARG:H	4:CD:131:ARG:HD3	1.30	0.95
25:CZ:388:ILE:O	25:CZ:395:VAL:HG22	1.66	0.95
40:DE:77:ILE:HG22	40:DE:78:LEU:H	1.28	0.95
36:BA:1058:G:H2'	36:BA:1059:G:H5''	1.49	0.95
36:BA:1887:C:C2'	36:BA:1888:G:H5''	1.96	0.95
43:BH:101:ARG:HG2	43:BH:117:PRO:HG3	1.49	0.95
51:BS:106:ARG:HH11	51:BS:107:GLU:H	0.98	0.95
56:BX:65:ARG:HG2	56:BX:66:LEU:H	1.27	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:7:VAL:HB	57:BY:8:LYS:HD2	1.45	0.95
5:CE:110:LEU:HD22	5:CE:115:VAL:HG21	1.48	0.95
12:CL:113:ARG:HB3	12:CL:122:THR:HG21	1.47	0.95
36:DA:2631:G:N2	40:DE:61:ARG:HH12	1.64	0.95
43:DH:20:ALA:HB3	43:DH:23:ARG:HB2	1.47	0.95
47:DO:2:ILE:HD11	47:DO:82:ASN:ND2	1.81	0.95
25:AZ:72:THR:HG22	25:AZ:203:LEU:HD23	1.45	0.95
36:BA:2887:U:H2'	36:BA:2888:C:H6	1.31	0.95
37:BB:91:C:H5'	49:BQ:17:LEU:O	1.64	0.95
36:DA:1816:G:H8	39:DD:62:TYR:HH	1.04	0.95
36:DA:2822:G:H2'	36:DA:2823:A:H5''	1.48	0.95
39:DD:43:ARG:HD2	39:DD:44:ASN:OD1	1.66	0.95
25:AZ:174:SER:OG	25:AZ:177:LEU:HD13	1.66	0.95
36:BA:2506:U:H5'	36:BA:2506:U:C6	2.00	0.95
36:BA:2631:G:N2	40:BE:61:ARG:HH12	1.63	0.95
37:BB:55:U:H2'	37:BB:56:G:C8	2.02	0.95
32:D6:6:ARG:HB3	32:D6:6:ARG:NH1	1.80	0.95
46:DN:40:PRO:HB3	53:DU:68:ALA:HB2	1.49	0.95
1:AA:386:C:C2'	1:AA:387:U:H5'	1.97	0.94
36:BA:271(P):C:H2'	36:BA:271(Q):G:H5'	1.45	0.94
36:BA:862:G:H2'	36:BA:863:A:O4'	1.65	0.94
36:DA:997:G:OP1	53:DU:93:LYS:HD3	1.67	0.94
36:DA:1759:A:H2'	36:DA:1760:A:H8	1.32	0.94
58:DZ:10:ARG:HB3	58:DZ:36:LYS:HB2	1.49	0.94
1:AA:585:G:H4'	12:AL:8:ASN:HD21	1.30	0.94
27:B1:3:LYS:HA	36:BA:1365:A:OP2	1.67	0.94
36:BA:997:G:OP1	53:BU:93:LYS:HD3	1.66	0.94
42:BG:36:LYS:HA	42:BG:99:MET:SD	2.07	0.94
4:CD:30:LYS:C	4:CD:32:ALA:H	1.69	0.94
16:CP:14:ASN:HA	16:CP:42:ARG:HH12	1.30	0.94
36:DA:2640:G:H2'	36:DA:2641:G:H5''	1.48	0.94
36:DA:2712:U:H1'	36:DA:2712(A):A:C8	2.02	0.94
36:DA:2887:U:H2'	36:DA:2888:C:H6	1.31	0.94
7:AG:42:ILE:HG23	7:AG:117:ALA:HA	1.50	0.94
22:AW:17:C:N4	36:BA:2110:G:H21	1.63	0.94
36:BA:271(L):U:H5''	36:BA:271(M):G:H5'	1.47	0.94
36:BA:1243:G:H2'	36:BA:1244:G:H5''	1.49	0.94
41:BF:29:ASN:ND2	41:BF:32:LEU:HB2	1.82	0.94
43:BH:83:TYR:HB2	43:BH:135:GLY:H	1.32	0.94
13:CM:108:ARG:N	13:CM:108:ARG:HD2	1.80	0.94
36:DA:1494:A:H2'	36:DA:1495:A:H5''	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:61:TRP:O	53:DU:65:ILE:HD13	1.67	0.94
53:DU:112:ARG:NH1	54:DV:46:VAL:HG11	1.81	0.94
22:CV:53:G:H1	22:CV:61:C:H42	1.08	0.94
51:DS:106:ARG:HH11	51:DS:107:GLU:H	1.00	0.94
24:AY:48:C:H2'	24:AY:59:A:H1'	1.50	0.94
46:BN:40:PRO:HB3	53:BU:68:ALA:HB2	1.45	0.94
31:D5:27:PRO:HG3	55:DW:23:LEU:HD11	1.49	0.94
47:DO:47:ILE:HG23	47:DO:48:PRO:HD2	1.45	0.94
52:DT:61:PHE:CE2	52:DT:76:PHE:HB2	2.01	0.94
36:BA:1484:G:C2'	36:BA:1485:G:H5''	1.97	0.94
36:BA:1543:C:H3'	36:BA:1544:A:H5''	1.47	0.94
39:BD:35:LYS:HG2	39:BD:63:ARG:HG2	1.49	0.94
9:CI:48:GLU:HA	9:CI:51:ARG:HD2	1.48	0.94
10:CJ:44:VAL:HG12	10:CJ:46:ARG:HG2	1.50	0.94
36:DA:1484:G:C2'	36:DA:1485:G:H5''	1.97	0.94
10:AJ:43:ARG:HB2	10:AJ:67:THR:CG2	1.98	0.94
40:BE:24:THR:HG21	40:BE:188:VAL:HG11	1.50	0.94
1:CA:368:U:C5	25:CZ:234:ARG:HD3	2.02	0.94
34:D8:62:LEU:HD13	36:DA:242:G:H3'	1.50	0.94
36:DA:17:G:N2	36:DA:524:U:H1'	1.82	0.94
41:DF:24:LEU:HB3	41:DF:25:PRO:HD2	1.48	0.94
42:DG:51:ARG:NE	42:DG:51:ARG:HA	1.78	0.94
1:AA:1470:G:H2'	1:AA:1471:G:C8	2.02	0.94
36:BA:2645:G:H3'	36:BA:2646:C:C5'	1.98	0.94
38:BC:74:VAL:HA	38:BC:112:ALA:HB3	1.47	0.94
41:BF:24:LEU:HB3	41:BF:25:PRO:HD2	1.50	0.94
2:CB:107:THR:HG23	2:CB:110:GLN:NE2	1.83	0.94
15:CO:82:ILE:HG23	15:CO:83:GLU:H	1.33	0.94
25:CZ:246:LYS:HB3	25:CZ:281:ILE:HG22	1.49	0.94
42:DG:37:VAL:HG22	42:DG:159:VAL:HG23	1.48	0.94
25:AZ:246:LYS:HB3	25:AZ:281:ILE:HG22	1.48	0.94
51:BS:106:ARG:NH1	51:BS:107:GLU:H	1.64	0.94
1:CA:150:C:H2'	1:CA:151:A:H5''	1.45	0.94
36:DA:1887:C:C2'	36:DA:1888:G:H5''	1.96	0.94
52:DT:58:ASN:ND2	52:DT:58:ASN:H	1.62	0.94
27:B1:41:ARG:HH22	36:BA:1365:A:H5''	0.79	0.94
56:DX:12:VAL:CG2	56:DX:13:LEU:H	1.80	0.94
3:AC:22:TRP:CZ3	3:AC:24:ALA:HB2	2.02	0.93
4:AD:131:ARG:HD3	4:AD:131:ARG:H	1.32	0.93
36:BA:17:G:H22	36:BA:524:U:H1'	1.31	0.93
36:DA:695:G:OP1	36:DA:1380:G:H4'	1.66	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:101:ARG:HG2	43:DH:117:PRO:HG3	1.50	0.93
1:AA:368:U:OP2	25:AZ:291:ARG:HD3	1.68	0.93
14:AN:57:ARG:HH11	14:AN:57:ARG:CB	1.81	0.93
36:DA:1785:A:OP2	36:DA:1982:C:H5'	1.68	0.93
1:AA:982:U:H4'	1:AA:983:A:O5'	1.66	0.93
16:AP:67:THR:H	16:AP:70:ALA:HB3	1.32	0.93
41:BF:6:VAL:HG12	41:BF:7:TYR:H	1.33	0.93
1:CA:386:C:C2'	1:CA:387:U:H5'	1.98	0.93
27:D1:44:PRO:HG2	27:D1:46:LEU:CD2	1.98	0.93
40:DE:24:THR:HG21	40:DE:188:VAL:HG11	1.51	0.93
41:DF:29:ASN:ND2	41:DF:32:LEU:HB2	1.83	0.93
1:AA:1402:C:H2'	1:AA:1403:C:O4'	1.68	0.93
1:AA:1426:C:H2'	1:AA:1427:U:C6	2.04	0.93
2:AB:61:LEU:HA	2:AB:64:ARG:NE	1.83	0.93
4:AD:30:LYS:C	4:AD:32:ALA:H	1.69	0.93
34:B8:49:VAL:HG12	34:B8:53:PRO:HD3	1.49	0.93
49:BQ:45:GLN:H	49:BQ:45:GLN:NE2	1.66	0.93
49:BQ:141:GLN:NE2	58:BZ:72:ARG:HD3	1.82	0.93
16:CP:67:THR:H	16:CP:70:ALA:HB3	1.32	0.93
24:CY:1:G:H1'	25:CZ:300:ARG:NH2	1.83	0.93
36:BA:2181:G:H2'	36:BA:2182:G:H8	1.31	0.93
36:DA:330:A:H2	36:DA:1210:A:H2'	1.31	0.93
48:DP:57:THR:OG1	48:DP:59:LEU:HB3	1.69	0.93
3:AC:91:LEU:HD11	3:AC:101:LEU:HD12	1.46	0.93
3:AC:95:THR:HG22	3:AC:97:LYS:HG3	1.50	0.93
12:AL:113:ARG:HB3	12:AL:122:THR:HG21	1.51	0.93
27:B1:87:PRO:HA	27:B1:90:ILE:HG12	1.47	0.93
36:DA:1516:C:C2'	36:DA:1517:G:H5''	1.98	0.93
36:DA:1543:C:H3'	36:DA:1544:A:H5''	1.48	0.93
16:AP:8:ARG:NH2	16:AP:15:PRO:HG3	1.83	0.93
32:B6:45:LYS:CD	32:B6:45:LYS:N	2.30	0.93
51:BS:106:ARG:HH11	51:BS:107:GLU:N	1.67	0.93
5:CE:147:ASP:HA	5:CE:150:ARG:HH11	1.31	0.93
29:D3:8:LEU:HD12	29:D3:28:LEU:HB2	1.49	0.93
36:DA:1689:A:H62	36:DA:1698:A:H2	1.08	0.93
1:AA:831:U:H2'	1:AA:832:C:C6	2.04	0.93
34:B8:62:LEU:HD13	36:BA:242:G:H3'	1.51	0.93
10:CJ:50:ILE:HD13	10:CJ:50:ILE:H	1.29	0.93
13:CM:63:THR:HG22	13:CM:64:TRP:H	1.33	0.93
29:D3:6:VAL:HB	29:D3:54:VAL:HG11	1.50	0.93
32:D6:45:LYS:CD	32:D6:45:LYS:N	2.30	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:44:VAL:HG12	43:DH:45:VAL:H	1.34	0.93
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.03	0.93
5:AE:147:ASP:HA	5:AE:150:ARG:HH11	1.31	0.93
7:AG:24:THR:HA	7:AG:27:ILE:HD12	1.50	0.93
25:AZ:264:ARG:HH11	25:AZ:264:ARG:CG	1.81	0.93
36:BA:1222:C:H2'	36:BA:1223:G:H5''	1.49	0.93
46:BN:75:TYR:HD1	46:BN:82:LEU:HB2	1.32	0.93
17:CQ:68:ARG:O	17:CQ:70:ARG:HD2	1.68	0.93
36:DA:1243:G:H2'	36:DA:1244:G:H5''	1.50	0.93
36:DA:2645:G:H3'	36:DA:2646:C:C5'	1.99	0.93
4:AD:108:LEU:HD11	4:AD:176:LEU:HD13	1.51	0.93
6:AF:56:PRO:HG2	6:AF:57:GLN:HE21	1.32	0.93
1:CA:346:G:H5'	52:DT:41:ARG:HH21	1.34	0.93
15:AO:82:ILE:HG23	15:AO:83:GLU:H	1.33	0.92
36:BA:1378:A:H4'	36:BA:1379:A:OP1	1.66	0.92
42:BG:21:ARG:NH2	42:BG:22:ARG:HA	1.84	0.92
4:CD:187:ARG:HB3	4:CD:187:ARG:NH1	1.84	0.92
25:CZ:355:LEU:HD22	25:CZ:359:VAL:HB	1.49	0.92
36:DA:2181:G:H2'	36:DA:2182:G:H8	1.32	0.92
51:DS:106:ARG:NH1	51:DS:107:GLU:H	1.66	0.92
21:AU:9:ARG:NH1	21:AU:22:ARG:HG3	1.83	0.92
40:BE:198:VAL:HG12	40:BE:199:ARG:H	1.31	0.92
5:CE:102:ALA:HB1	5:CE:106:PRO:HG2	1.49	0.92
22:CV:41:C:O2	22:CV:41:C:H2'	1.69	0.92
36:DA:1378:A:O2'	36:DA:1379:A:H5'	1.69	0.92
43:DH:83:TYR:HB2	43:DH:135:GLY:H	1.32	0.92
50:DR:96:ARG:HH12	50:DR:117:VAL:HG23	1.33	0.92
1:AA:1124:G:H21	1:AA:1126:U:H3	1.15	0.92
57:BY:13:VAL:HG13	57:BY:14:LEU:H	1.34	0.92
38:DC:127:LEU:CD2	38:DC:130:ILE:HD12	1.98	0.92
56:DX:30:VAL:HG11	56:DX:39:ILE:HD11	1.51	0.92
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.51	0.92
19:AS:51:VAL:HG23	19:AS:60:VAL:HG11	1.52	0.92
36:BA:1689:A:H62	36:BA:1698:A:H2	1.07	0.92
38:BC:82:LYS:HG3	38:BC:147:PHE:HD1	1.28	0.92
38:BC:206:GLY:HA3	38:BC:210:ARG:HH22	1.34	0.92
42:BG:117:PHE:O	42:BG:118:ARG:HG3	1.69	0.92
43:BH:85:LYS:HZ3	43:BH:133:VAL:H	1.17	0.92
55:BW:12:ILE:HD12	55:BW:42:ARG:NH1	1.84	0.92
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.04	0.92
2:CB:121:LEU:HD21	2:CB:127:ILE:HD11	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:38:GLN:HB3	28:D2:44:LEU:CD1	1.99	0.92
52:DT:27:THR:O	52:DT:28:VAL:HG23	1.68	0.92
1:AA:979:C:C3'	1:AA:980:C:H5''	1.98	0.92
7:CG:42:ILE:HG23	7:CG:117:ALA:HA	1.50	0.92
10:CJ:63:PHE:HB3	14:CN:58:LYS:HA	1.51	0.92
10:CJ:65:LEU:HD13	14:CN:56:VAL:N	1.84	0.92
11:CK:21:ILE:HG13	11:CK:30:VAL:HG12	1.50	0.92
24:CY:56:C:C2'	24:CY:57:G:H5'	1.97	0.92
36:DA:1222:C:H2'	36:DA:1223:G:H5''	1.49	0.92
38:DC:96:GLY:HA3	38:DC:99:ILE:HG12	1.50	0.92
1:AA:1422:G:H2'	1:AA:1423:G:H8	1.34	0.92
4:AD:100:ARG:HH21	4:AD:118:ARG:HH12	0.95	0.92
5:AE:100:VAL:HG23	5:AE:107:ARG:HH21	1.34	0.92
10:AJ:44:VAL:HG12	10:AJ:46:ARG:HG2	1.49	0.92
36:BA:2502:G:H5''	36:BA:2503:A:C5'	1.99	0.92
38:BC:100:ILE:HG21	38:BC:126:LYS:HB3	1.50	0.92
46:BN:24:GLY:H	46:BN:27:ALA:H	1.17	0.92
48:BP:57:THR:OG1	48:BP:59:LEU:HB3	1.69	0.92
53:BU:70:ARG:HA	53:BU:74:LEU:O	1.70	0.92
1:CA:376:G:H2'	1:CA:377:G:H8	1.35	0.92
1:CA:1124:G:H21	1:CA:1126:U:H3	1.14	0.92
4:CD:100:ARG:HH21	4:CD:118:ARG:HH12	0.94	0.92
36:DA:144:C:H2'	36:DA:145:G:C8	2.05	0.92
36:BA:1095:A:H2'	36:BA:1096:A:H8	1.35	0.92
52:BT:27:THR:O	52:BT:28:VAL:HG23	1.68	0.92
36:DA:144:C:H2'	36:DA:145:G:H8	1.30	0.92
36:DA:2161:C:H2'	36:DA:2162:G:H8	1.34	0.92
49:DQ:45:GLN:H	49:DQ:45:GLN:NE2	1.66	0.92
10:AJ:91:PRO:HB2	10:AJ:94:VAL:HB	1.51	0.92
46:DN:75:TYR:HD1	46:DN:82:LEU:HB2	1.33	0.92
36:BA:2262:U:H2'	36:BA:2263:C:C6	2.05	0.92
43:BH:44:VAL:HG12	43:BH:45:VAL:H	1.32	0.92
55:BW:11:ARG:NH1	55:BW:98:LYS:HB3	1.84	0.92
1:CA:744:C:H2'	1:CA:745:C:H6	1.31	0.92
1:CA:1154:G:H2'	1:CA:1155:G:H8	1.34	0.92
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.51	0.92
36:DA:2385:C:H2'	36:DA:2386:C:C6	2.05	0.92
36:DA:2502:G:H5''	36:DA:2503:A:C5'	1.98	0.92
1:AA:1461:G:H2'	1:AA:1462:G:C8	2.05	0.92
8:AH:109:ILE:HG12	8:AH:110:ALA:N	1.83	0.92
36:BA:1578:U:H2'	36:BA:1579:A:H5''	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:96:GLY:HA3	38:BC:99:ILE:HG12	1.50	0.92
3:CC:95:THR:HG22	3:CC:97:LYS:HG3	1.52	0.92
14:CN:57:ARG:HH11	14:CN:57:ARG:CB	1.83	0.92
36:DA:598:G:H5'	48:DP:15:ARG:HD3	1.50	0.92
1:AA:1426:C:H2'	1:AA:1427:U:H6	1.34	0.91
26:B0:16:SER:OG	36:BA:2261:C:H3'	1.70	0.91
38:BC:127:LEU:HD23	38:BC:130:ILE:HD12	1.51	0.91
39:BD:65:ILE:HD13	39:BD:65:ILE:H	1.34	0.91
34:D8:10:ALA:HB2	48:DP:61:ARG:NH1	1.85	0.91
50:DR:99:LYS:HD2	50:DR:99:LYS:H	1.31	0.91
8:AH:109:ILE:HG12	8:AH:110:ALA:H	1.34	0.91
57:BY:46:LYS:HB2	57:BY:62:GLU:CG	2.00	0.91
1:CA:18:C:H5''	5:CE:127:ASN:HD21	1.32	0.91
27:D1:25:LYS:HD2	36:DA:388:G:H4'	1.52	0.91
36:DA:1578:U:H2'	36:DA:1579:A:H5''	1.51	0.91
40:DE:36:ARG:NH2	40:DE:88:GLY:HA2	1.84	0.91
41:DF:181:LEU:HD11	41:DF:186:ILE:HD11	1.50	0.91
46:DN:26:LEU:HD11	46:DN:30:ILE:HD11	1.49	0.91
20:AT:104:LEU:HD23	20:AT:105:SER:H	1.34	0.91
32:B6:53:LYS:CD	32:B6:54:ILE:H	1.82	0.91
11:CK:124:LYS:HD2	11:CK:125:PHE:CE1	2.05	0.91
32:D6:45:LYS:H	32:D6:45:LYS:HD2	1.35	0.91
57:DY:46:LYS:HB2	57:DY:62:GLU:CG	1.99	0.91
2:AB:121:LEU:HD21	2:AB:127:ILE:HD11	1.52	0.91
16:AP:14:ASN:HA	16:AP:42:ARG:HH12	1.34	0.91
24:AY:56:C:C2'	24:AY:57:G:H5'	2.00	0.91
27:B1:25:LYS:HD2	36:BA:388:G:H4'	1.52	0.91
27:B1:50:ARG:HG2	27:B1:59:THR:HG22	1.52	0.91
28:B2:38:GLN:O	28:B2:41:ILE:HG12	1.71	0.91
29:B3:15:TYR:HD2	29:B3:19:GLN:HE22	1.18	0.91
1:CA:8:A:N6	4:CD:208:SER:HB2	1.85	0.91
38:DC:30:LYS:HE2	38:DC:180:PHE:O	1.70	0.91
1:AA:1190:G:H3'	3:AC:3:ASN:ND2	1.84	0.91
8:AH:11:THR:HG22	8:AH:15:ASN:HD21	1.34	0.91
22:AV:68:C:C2'	22:AV:69:G:H5''	2.00	0.91
36:BA:144:C:H2'	36:BA:145:G:H8	1.34	0.91
2:CB:209:ARG:NH1	2:CB:239:VAL:HG11	1.86	0.91
10:CJ:91:PRO:HB2	10:CJ:94:VAL:HB	1.51	0.91
31:D5:3:LYS:HA	31:D5:3:LYS:HE3	1.53	0.91
41:DF:206:ILE:HG22	41:DF:207:GLY:H	1.36	0.91
42:DG:43:LEU:HD12	42:DG:45:GLU:OE1	1.70	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:6:U:H2'	24:AY:7:A:H5''	1.52	0.91
36:BA:2068:U:N3	36:BA:2430:A:H2	1.68	0.91
36:BA:2161:C:H2'	36:BA:2162:G:H8	1.32	0.91
1:CA:979:C:C3'	1:CA:980:C:H5''	2.00	0.91
20:CT:89:ARG:HB2	20:CT:104:LEU:HD11	1.53	0.91
38:DC:127:LEU:HD23	38:DC:130:ILE:HD12	1.52	0.91
10:AJ:16:LEU:HD11	10:AJ:70:ARG:CG	2.00	0.91
22:AV:41:C:H2'	22:AV:41:C:O2	1.71	0.91
56:BX:35:THR:HG22	56:BX:37:THR:H	1.36	0.91
24:CY:48:C:H2'	24:CY:59:A:H1'	1.50	0.91
36:DA:372:G:N2	36:DA:400:G:H2'	1.85	0.91
38:DC:100:ILE:HG21	38:DC:126:LYS:HB3	1.53	0.91
2:AB:18:GLY:H	2:AB:42:ILE:HG22	1.34	0.91
13:AM:10:PRO:O	13:AM:11:ARG:HB2	1.71	0.91
36:BA:2068:U:H3	36:BA:2430:A:H2	1.14	0.91
41:BF:153:SER:HA	41:BF:172:TRP:HB2	1.51	0.91
52:BT:10:VAL:O	52:BT:13:ARG:HG2	1.70	0.91
57:BY:86:ARG:HG2	57:BY:87:LYS:H	1.36	0.91
1:CA:1116:C:C2'	1:CA:1117:G:H5''	1.99	0.91
36:DA:1494:A:C2'	36:DA:1495:A:H5''	1.99	0.91
37:DB:43:C:OP1	42:DG:67:LYS:HE2	1.69	0.91
52:DT:10:VAL:O	52:DT:13:ARG:HG2	1.71	0.91
58:DZ:70:LEU:HD21	58:DZ:91:LEU:HD21	1.52	0.91
56:BX:12:VAL:CG2	56:BX:13:LEU:H	1.83	0.91
57:BY:77:PRO:HB2	57:BY:99:CYS:SG	2.10	0.91
10:CJ:16:LEU:HD11	10:CJ:70:ARG:CG	2.00	0.91
36:BA:740:U:H2'	36:BA:741:G:H8	1.28	0.91
40:BE:57:LYS:HA	40:BE:57:LYS:CE	2.01	0.91
1:CA:1054:C:N4	24:CY:34:G:H1'	1.85	0.91
53:DU:69:CYS:HB2	53:DU:74:LEU:HD11	1.53	0.91
32:B6:6:ARG:NH1	32:B6:6:ARG:HB3	1.85	0.90
36:BA:1380:G:H2'	36:BA:1381:G:C8	2.06	0.90
36:BA:1860:G:H1	36:BA:1882:C:N4	1.69	0.90
38:BC:30:LYS:HE2	38:BC:180:PHE:O	1.71	0.90
46:BN:28:THR:HG23	46:BN:29:LYS:H	1.33	0.90
1:CA:119:A:H4'	1:CA:120:A:O5'	1.69	0.90
2:CB:61:LEU:HA	2:CB:64:ARG:NE	1.86	0.90
24:CY:2:C:OP1	25:CZ:90:LYS:HD2	1.71	0.90
42:DG:7:LEU:HD22	42:DG:100:TRP:HZ3	1.32	0.90
48:DP:121:LYS:O	48:DP:123:LEU:HD23	1.72	0.90
1:AA:1154:G:H2'	1:AA:1155:G:H8	1.35	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:18:TYR:HA	21:AU:22:ARG:HD3	1.53	0.90
25:AZ:38:GLU:CG	25:AZ:189:ARG:NH1	2.33	0.90
36:BA:2802:G:H3'	36:BA:2803:C:H5''	1.54	0.90
42:BG:21:ARG:HH21	42:BG:22:ARG:HA	1.35	0.90
53:BU:61:TRP:O	53:BU:65:ILE:HD13	1.70	0.90
56:BX:30:VAL:HG11	56:BX:39:ILE:HD11	1.50	0.90
8:CH:116:LYS:O	8:CH:119:LEU:HD21	1.70	0.90
36:DA:2305:A:H61	42:DG:43:LEU:HD13	1.35	0.90
40:DE:57:LYS:HA	40:DE:57:LYS:CE	2.00	0.90
1:AA:744:C:H2'	1:AA:745:C:H6	1.36	0.90
27:B1:87:PRO:HA	27:B1:90:ILE:CG1	2.01	0.90
36:BA:265:A:C8	36:BA:266:G:H1'	2.06	0.90
36:BA:372:G:N2	36:BA:400:G:H2'	1.85	0.90
37:BB:106:G:H5'	58:BZ:31:ARG:HB3	1.52	0.90
14:CN:4:LYS:O	14:CN:7:ILE:HG12	1.71	0.90
58:DZ:130:PRO:HA	58:DZ:133:ILE:HD11	1.54	0.90
29:B3:8:LEU:HD12	29:B3:28:LEU:HB2	1.51	0.90
1:CA:1277:C:HO2'	1:CA:1279:A:H8	1.08	0.90
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HG13	1.53	0.90
36:DA:1710:C:H2'	36:DA:1711:C:C6	2.07	0.90
47:DO:11:ALA:HB1	47:DO:98:VAL:HG23	1.54	0.90
4:AD:129:ASN:H	4:AD:129:ASN:HD22	1.19	0.90
27:B1:4:VAL:HG22	27:B1:5:CYS:H	1.36	0.90
36:BA:119:A:H4'	36:BA:120:U:H5'	1.52	0.90
8:CH:11:THR:HG22	8:CH:15:ASN:HD21	1.37	0.90
36:DA:2008:C:H2'	36:DA:2009:G:H8	1.36	0.90
46:DN:3:THR:HG22	46:DN:4:TYR:H	1.36	0.90
56:DX:89:ILE:HG21	56:DX:92:LEU:HD12	1.53	0.90
1:AA:452:A:O2'	1:AA:453:A:H5''	1.72	0.90
5:AE:110:LEU:HD22	5:AE:115:VAL:HG21	1.51	0.90
25:AZ:200:TRP:HA	25:AZ:203:LEU:HB2	1.52	0.90
35:B9:36:GLN:HE22	36:BA:1031:G:N2	1.69	0.90
36:BA:1629:U:H2'	36:BA:1630:G:C8	2.06	0.90
1:CA:438:G:H5'	4:CD:123:HIS:HD1	1.31	0.90
7:CG:69:VAL:CA	7:CG:138:LYS:HD2	2.02	0.90
16:CP:53:VAL:HG23	16:CP:54:GLU:H	1.37	0.90
22:CV:56:C:H1'	42:DG:76:SER:HB2	1.50	0.90
36:DA:910:A:H62	49:DQ:12:GLN:HA	1.37	0.90
40:DE:34:VAL:O	40:DE:35:GLN:HB2	1.72	0.90
47:DO:107:ARG:HH12	52:DT:35:LYS:HD2	1.34	0.90
1:AA:265:G:C2'	1:AA:266:G:H5''	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:6:THR:HG23	34:B8:62:LEU:HD12	1.50	0.90
36:BA:1516:C:C2'	36:BA:1517:G:H5''	2.00	0.90
37:BB:17:C:H42	37:BB:68:C:H42	1.18	0.90
41:BF:181:LEU:HD11	41:BF:186:ILE:HD11	1.53	0.90
47:BO:47:ILE:HG23	47:BO:48:PRO:HD2	1.52	0.90
3:CC:113:ALA:HB1	3:CC:200:ALA:HB3	1.52	0.90
7:CG:24:THR:HA	7:CG:27:ILE:HD12	1.52	0.90
25:CZ:174:SER:OG	25:CZ:177:LEU:HD13	1.70	0.90
25:CZ:200:TRP:HA	25:CZ:203:LEU:HB2	1.53	0.90
36:DA:2240:C:O2'	36:DA:2241:A:H5'	1.72	0.90
1:AA:1277:C:HO2'	1:AA:1279:A:H8	1.20	0.90
2:AB:107:THR:HG23	2:AB:110:GLN:NE2	1.84	0.90
28:B2:5:GLU:HB2	28:B2:9:GLN:HE22	1.36	0.90
36:BA:2385:C:H2'	36:BA:2386:C:C6	2.07	0.90
36:BA:2511:U:H4'	40:BE:124:GLY:CA	2.01	0.90
47:BO:119:PRO:HB2	52:BT:68:TYR:CZ	2.06	0.90
1:CA:831:U:H2'	1:CA:832:C:C6	2.04	0.90
1:CA:881:G:P	12:CL:12:ARG:HH22	1.93	0.90
36:DA:272(H):C:H2'	36:DA:272(I):U:H5''	1.54	0.90
39:DD:232:PRO:HD2	39:DD:249:PRO:HA	1.51	0.90
1:AA:119:A:H4'	1:AA:120:A:O5'	1.72	0.90
12:AL:20:LYS:HD3	12:AL:20:LYS:N	1.87	0.90
36:BA:1824:G:OP1	39:BD:52:ARG:HD3	1.71	0.90
36:BA:2773:C:H5''	40:BE:164:ARG:HG2	1.51	0.90
1:CA:1442:G:H2'	1:CA:1442(B):A:H2	1.37	0.90
1:CA:1503:A:H2'	23:CX:16:A:H62	1.36	0.90
36:DA:1465:G:H2'	36:DA:1466:G:C8	2.07	0.90
36:DA:2262:U:H2'	36:DA:2263:C:C6	2.06	0.90
41:BF:154:VAL:HG11	41:BF:193:VAL:HG23	1.55	0.90
42:BG:56:ALA:O	42:BG:59:GLU:HG2	1.72	0.90
26:D0:40:GLN:NE2	26:D0:43:THR:HA	1.87	0.90
36:DA:84:A:H5'	57:DY:9:LYS:HD2	1.54	0.90
41:DF:154:VAL:HG11	41:DF:193:VAL:HG23	1.52	0.90
1:AA:1420:C:H42	1:AA:1480:G:H1	1.20	0.89
8:AH:11:THR:HG23	8:AH:14:ARG:HH12	1.37	0.89
48:BP:39:LYS:HE2	48:BP:42:SER:HB3	1.53	0.89
2:CB:87:ARG:NE	2:CB:233:SER:HB3	1.88	0.89
4:CD:107:ARG:HH21	4:CD:194:LEU:HD12	1.36	0.89
8:CH:10:LEU:CD2	8:CH:83:ILE:HD11	2.02	0.89
27:D1:67:ILE:N	27:D1:68:PRO:HD2	1.88	0.89
36:DA:1087:G:H2'	36:DA:1088:A:H4'	1.52	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:209:ARG:NH1	2:AB:239:VAL:HG11	1.87	0.89
38:BC:99:ILE:HG23	38:BC:102:LYS:HZ3	1.36	0.89
48:BP:121:LYS:O	48:BP:123:LEU:HD23	1.73	0.89
8:CH:109:ILE:HG12	8:CH:110:ALA:H	1.34	0.89
22:CV:68:C:C2'	22:CV:69:G:H5''	2.00	0.89
27:D1:44:PRO:HG2	27:D1:46:LEU:HD21	1.52	0.89
36:DA:271(H):G:HO2'	36:DA:271(I):G:H8	0.94	0.89
38:DC:151:GLU:HA	38:DC:154:ARG:HH11	1.37	0.89
48:BP:111:ARG:HH11	48:BP:149:GLU:HG3	1.37	0.89
53:BU:112:ARG:NH1	54:BV:46:VAL:HG11	1.86	0.89
25:CZ:368:VAL:HG12	25:CZ:369:THR:H	1.37	0.89
1:AA:1422:G:H2'	1:AA:1423:G:C8	2.07	0.89
4:AD:187:ARG:HB3	4:AD:187:ARG:NH1	1.87	0.89
36:BA:84:A:H5'	57:BY:9:LYS:HD2	1.53	0.89
36:BA:271(H):G:HO2'	36:BA:271(I):G:H8	0.95	0.89
36:BA:1710:C:H2'	36:BA:1711:C:C6	2.08	0.89
42:BG:5:VAL:H	42:BG:8:LYS:HB2	1.37	0.89
41:DF:153:SER:HA	41:DF:172:TRP:HB2	1.53	0.89
47:DO:111:PHE:HB3	47:DO:114:ILE:HD13	1.53	0.89
56:DX:35:THR:HG22	56:DX:37:THR:H	1.37	0.89
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.08	0.89
39:BD:232:PRO:HD2	39:BD:249:PRO:HA	1.53	0.89
41:BF:206:ILE:HG22	41:BF:207:GLY:H	1.36	0.89
42:BG:114:ILE:HG13	42:BG:135:LEU:HD21	1.54	0.89
51:BS:28:VAL:HG12	51:BS:29:PHE:H	1.34	0.89
54:BV:52:VAL:HG13	54:BV:55:ALA:HB3	1.54	0.89
1:CA:1239:A:H62	1:CA:1299:A:N6	1.69	0.89
4:CD:129:ASN:H	4:CD:129:ASN:HD22	1.20	0.89
36:DA:710:G:H2'	36:DA:711:G:C8	2.07	0.89
33:B7:40:TRP:CZ3	36:BA:459:U:H4'	2.07	0.89
36:BA:710:G:H2'	36:BA:711:G:C8	2.08	0.89
47:BO:111:PHE:HB3	47:BO:114:ILE:HD13	1.54	0.89
5:CE:100:VAL:HG23	5:CE:107:ARG:HH21	1.36	0.89
13:CM:97:PRO:CA	13:CM:110:ARG:HD3	2.01	0.89
28:D2:35:LEU:HD11	28:D2:50:ILE:HG13	1.53	0.89
36:DA:1170:G:H22	36:DA:1179:C:H42	1.21	0.89
36:DA:1193:G:H2'	36:DA:1194:A:O4'	1.73	0.89
36:DA:1824:G:OP1	39:DD:52:ARG:HD3	1.71	0.89
36:DA:2385:C:H2'	36:DA:2386:C:H6	1.34	0.89
41:DF:24:LEU:HB3	41:DF:25:PRO:CD	2.02	0.89
8:AH:116:LYS:O	8:AH:119:LEU:HD21	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1202:C:H2'	36:BA:1203:G:H5'	1.55	0.89
58:BZ:139:VAL:HG12	58:BZ:140:ASP:H	1.38	0.89
36:DA:492:A:H2'	36:DA:493:G:O4'	1.72	0.89
40:DE:33:VAL:HG21	40:DE:36:ARG:HH21	1.35	0.89
52:DT:5:ALA:O	52:DT:9:LEU:HG	1.73	0.89
2:AB:115:LEU:HD13	2:AB:145:LEU:HD12	1.55	0.89
15:AO:87:ILE:HG22	15:AO:88:ARG:H	1.37	0.89
26:B0:40:GLN:NE2	26:B0:43:THR:HA	1.85	0.89
36:BA:144:C:H2'	36:BA:145:G:C8	2.08	0.89
36:BA:265:A:H8	36:BA:266:G:H1'	1.37	0.89
36:BA:2187:G:H2'	36:BA:2188:C:H5'	1.55	0.89
40:BE:33:VAL:HG21	40:BE:36:ARG:HH21	1.37	0.89
24:CY:6:U:H2'	24:CY:7:A:H5''	1.54	0.89
36:DA:427:U:HO2'	36:DA:428:A:H8	0.93	0.89
37:DB:55:U:H2'	37:DB:56:G:C8	2.07	0.89
52:DT:60:THR:HG22	52:DT:77:PRO:HA	1.55	0.89
1:AA:1461:G:H2'	1:AA:1462:G:H8	1.38	0.89
3:AC:113:ALA:HB1	3:AC:200:ALA:HB3	1.54	0.89
36:BA:511:U:H3'	36:BA:512:G:C5'	2.03	0.89
36:BA:2009:G:H4'	55:BW:40:ASN:ND2	1.86	0.89
36:DA:1590:U:C2'	36:DA:1591:G:H5''	2.02	0.89
36:DA:2691:C:H2'	36:DA:2692:C:H6	1.38	0.89
37:DB:106:G:H2'	37:DB:107:G:H8	1.37	0.89
11:AK:21:ILE:HG13	11:AK:30:VAL:HG12	1.54	0.89
13:AM:63:THR:HG22	13:AM:64:TRP:H	1.37	0.89
32:B6:45:LYS:HD3	32:B6:45:LYS:N	1.87	0.89
36:BA:1465:G:H2'	36:BA:1466:G:C8	2.07	0.89
51:BS:97:ARG:HH21	51:BS:98:VAL:HA	1.37	0.89
58:BZ:151:HIS:HB2	58:BZ:169:GLU:O	1.72	0.89
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.08	0.89
34:D8:10:ALA:HB2	48:DP:61:ARG:HH11	1.34	0.89
36:DA:2187:G:H2'	36:DA:2188:C:H5'	1.55	0.89
36:DA:2802:G:H3'	36:DA:2803:C:H5''	1.53	0.89
38:DC:206:GLY:HA3	38:DC:210:ARG:HH22	1.35	0.89
52:DT:65:LYS:HE3	52:DT:66:VAL:H	1.38	0.89
53:DU:70:ARG:HA	53:DU:74:LEU:O	1.72	0.89
58:DZ:26:GLY:HA2	58:DZ:85:HIS:HD2	1.38	0.89
2:AB:80:ILE:HD12	2:AB:80:ILE:H	1.38	0.88
11:AK:124:LYS:HD2	11:AK:125:PHE:CE1	2.08	0.88
30:B4:8:LYS:HG2	30:B4:9:LEU:N	1.86	0.88
34:B8:10:ALA:HB2	48:BP:61:ARG:HH11	1.38	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:B9:36:GLN:HE22	36:BA:1031:G:H21	1.16	0.88
2:CB:204:ASN:ND2	2:CB:206:ASP:H	1.71	0.88
15:CO:87:ILE:HG22	15:CO:88:ARG:H	1.38	0.88
19:CS:16:LEU:HD12	19:CS:16:LEU:H	1.38	0.88
34:D8:23:VAL:HG12	34:D8:46:ARG:HB3	1.55	0.88
36:DA:31:C:H2'	36:DA:32:C:H5''	1.55	0.88
48:DP:111:ARG:HH11	48:DP:149:GLU:HG3	1.38	0.88
2:AB:63:MET:HG3	2:AB:63:MET:O	1.70	0.88
4:AD:107:ARG:HH21	4:AD:194:LEU:HD12	1.38	0.88
36:BA:17:G:N2	36:BA:524:U:H1'	1.86	0.88
36:BA:2184:G:H2'	36:BA:2185:C:C1'	2.02	0.88
41:BF:24:LEU:HB3	41:BF:25:PRO:CD	2.03	0.88
49:BQ:34:LEU:HD11	49:BQ:129:THR:HB	1.55	0.88
2:CB:18:GLY:H	2:CB:42:ILE:HG22	1.36	0.88
28:D2:14:ARG:HH22	36:DA:78:A:H5'	1.35	0.88
36:DA:1297:C:OP1	36:DA:2710:C:H4'	1.71	0.88
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.01	0.88
29:B3:6:VAL:HB	29:B3:54:VAL:HG11	1.53	0.88
32:B6:45:LYS:H	32:B6:45:LYS:HD2	1.35	0.88
34:B8:23:VAL:HG12	34:B8:46:ARG:HB3	1.56	0.88
36:BA:1291:C:H2'	36:BA:1292:U:H5'	1.55	0.88
36:BA:1590:U:C2'	36:BA:1591:G:H5''	2.02	0.88
36:BA:2691:C:H2'	36:BA:2692:C:H6	1.38	0.88
50:BR:45:ARG:HG3	50:BR:46:GLY:H	1.35	0.88
57:BY:75:ILE:O	57:BY:76:CYS:HB2	1.73	0.88
58:BZ:70:LEU:HD21	58:BZ:91:LEU:HD21	1.55	0.88
1:CA:1053:G:H4'	1:CA:1054:C:C5'	2.03	0.88
8:CH:109:ILE:HG12	8:CH:110:ALA:N	1.82	0.88
13:CM:45:VAL:HA	13:CM:48:LEU:HD11	1.55	0.88
32:D6:6:ARG:HB3	32:D6:6:ARG:HH11	1.35	0.88
36:DA:1095:A:H2'	36:DA:1096:A:H8	1.36	0.88
42:DG:41:GLN:HB3	42:DG:43:LEU:CD2	2.04	0.88
51:DS:106:ARG:HH11	51:DS:107:GLU:N	1.69	0.88
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.09	0.88
5:AE:137:GLU:OE2	5:AE:140:ARG:HD2	1.72	0.88
36:BA:1677:A:H2'	36:BA:1678:G:C8	2.08	0.88
37:BB:20:C:H2'	37:BB:21:G:H5''	1.53	0.88
38:BC:23:ASP:HB3	38:BC:27:ARG:NH1	1.88	0.88
46:BN:28:THR:HG23	46:BN:29:LYS:N	1.87	0.88
1:CA:1053:G:C4'	1:CA:1054:C:H5'	2.02	0.88
2:CB:209:ARG:HH11	2:CB:239:VAL:HG11	1.38	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:7:ALA:HB2	8:CH:85:ARG:HD3	1.54	0.88
21:CU:16:GLY:O	21:CU:17:THR:HG23	1.73	0.88
36:DA:862:G:C2	36:DA:863:A:H1'	2.08	0.88
36:DA:1441:G:O2'	36:DA:1442:G:H5'	1.73	0.88
36:DA:2811:G:OP1	40:DE:60:ASN:HB2	1.72	0.88
50:DR:45:ARG:HG3	50:DR:46:GLY:H	1.38	0.88
2:AB:48:MET:HA	2:AB:51:LEU:HD12	1.54	0.88
25:AZ:322:VAL:HG12	25:AZ:364:PRO:HA	1.54	0.88
28:B2:51:ARG:CD	28:B2:55:ARG:HH22	1.85	0.88
30:B4:8:LYS:O	30:B4:9:LEU:HB2	1.73	0.88
31:B5:27:PRO:HG3	55:BW:23:LEU:HD11	1.56	0.88
1:CA:78:G:N2	1:CA:91:C:H42	1.71	0.88
2:CB:77:ALA:HA	2:CB:80:ILE:HD13	1.55	0.88
4:CD:201:GLN:HA	4:CD:204:ILE:HD12	1.56	0.88
19:CS:51:VAL:HG23	19:CS:60:VAL:HG11	1.54	0.88
32:D6:45:LYS:HD3	32:D6:45:LYS:N	1.88	0.88
34:D8:6:THR:HG23	34:D8:62:LEU:HD12	1.54	0.88
35:D9:36:GLN:HE22	36:DA:1031:G:H21	1.21	0.88
1:AA:902:G:H2'	1:AA:903:G:H8	1.39	0.88
36:BA:1222:C:C2'	36:BA:1223:G:H5''	2.04	0.88
49:BQ:22:LYS:H	58:BZ:78:LYS:HE3	1.36	0.88
36:DA:1568:G:H5''	39:DD:61:LEU:HD23	1.56	0.88
47:DO:119:PRO:HB2	52:DT:68:TYR:CZ	2.09	0.88
54:DV:72:VAL:HG23	54:DV:85:LYS:HB2	1.56	0.88
1:AA:55:A:H2'	25:AZ:232:THR:HG21	1.55	0.88
1:AA:1239:A:H62	1:AA:1299:A:N6	1.72	0.88
2:AB:87:ARG:NE	2:AB:233:SER:HB3	1.88	0.88
10:AJ:65:LEU:HD13	14:AN:56:VAL:N	1.88	0.88
13:AM:52:GLU:HA	13:AM:55:ARG:HB3	1.55	0.88
20:AT:57:ARG:NH1	20:AT:103:GLY:H	1.71	0.88
33:B7:21:ARG:HG2	33:B7:21:ARG:HH11	1.39	0.88
36:BA:272(H):C:H2'	36:BA:272(I):U:H5''	1.55	0.88
36:BA:492:A:H2'	36:BA:493:G:O4'	1.74	0.88
15:CO:36:ILE:HG23	15:CO:56:LEU:HD11	1.54	0.88
26:D0:11:ARG:HB2	26:D0:11:ARG:NH1	1.89	0.88
28:D2:46:GLN:OE1	36:DA:95:G:H4'	1.73	0.88
34:D8:49:VAL:HG12	34:D8:53:PRO:HD3	1.53	0.88
42:DG:162:THR:HG22	42:DG:164:GLU:OE2	1.73	0.88
46:DN:83:LYS:HG2	46:DN:84:LYS:H	1.39	0.88
57:DY:77:PRO:HB2	57:DY:99:CYS:SG	2.14	0.88
17:AQ:68:ARG:O	17:AQ:70:ARG:HD2	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:89:ARG:HB2	20:AT:104:LEU:HD11	1.52	0.88
36:BA:862:G:C2	36:BA:863:A:H1'	2.08	0.88
36:BA:2833:G:H3'	36:BA:2834:G:H5''	1.56	0.88
47:BO:11:ALA:HB1	47:BO:98:VAL:HG23	1.55	0.88
1:CA:715:A:H2'	1:CA:716:A:C8	2.09	0.88
6:CF:43:LEU:H	6:CF:43:LEU:HD22	1.39	0.88
14:CN:48:ALA:HB2	14:CN:53:LEU:HD12	1.55	0.88
32:D6:53:LYS:CD	32:D6:54:ILE:H	1.86	0.88
36:DA:265:A:C8	36:DA:266:G:H1'	2.08	0.88
36:DA:372:G:H22	36:DA:400:G:H2'	1.37	0.88
36:DA:2773:C:H5''	40:DE:164:ARG:HG2	1.54	0.88
41:DF:6:VAL:HG12	41:DF:7:TYR:H	1.35	0.88
58:DZ:81:ARG:HB2	58:DZ:81:ARG:NH1	1.89	0.88
8:AH:86:ILE:HG21	8:AH:133:LEU:HD23	1.56	0.88
34:B8:28:GLY:HA2	34:B8:32:LEU:HD23	1.56	0.88
36:BA:925:C:H2'	36:BA:926:A:C5'	2.04	0.88
43:BH:67:LEU:HG	43:BH:71:LEU:HD11	1.55	0.88
46:BN:3:THR:HG22	46:BN:4:TYR:H	1.36	0.88
46:BN:23:LEU:HA	46:BN:26:LEU:HD23	1.56	0.88
46:BN:45:ASN:HD22	46:BN:45:ASN:N	1.71	0.88
48:BP:47:ASP:HB3	48:BP:49:ARG:N	1.89	0.88
49:BQ:27:VAL:HG12	49:BQ:29:PHE:H	1.38	0.88
21:CU:18:TYR:HA	21:CU:22:ARG:HD3	1.55	0.88
22:CW:54:U:H4'	38:DC:54:SER:CB	2.04	0.88
46:DN:24:GLY:H	46:DN:27:ALA:H	1.21	0.88
57:DY:75:ILE:O	57:DY:76:CYS:HB2	1.72	0.88
1:AA:419:C:H42	1:AA:424:G:H22	1.20	0.88
6:AF:43:LEU:H	6:AF:43:LEU:HD22	1.38	0.88
8:AH:7:ALA:HB2	8:AH:85:ARG:HD3	1.53	0.88
36:BA:575:A:O2'	36:BA:576:U:H5'	1.74	0.88
20:CT:104:LEU:HD23	20:CT:105:SER:H	1.36	0.88
38:DC:99:ILE:HD12	38:DC:102:LYS:HZ3	1.35	0.88
51:DS:28:VAL:HG12	51:DS:29:PHE:H	1.39	0.88
57:DY:86:ARG:HG2	57:DY:87:LYS:H	1.39	0.88
14:AN:4:LYS:O	14:AN:7:ILE:HG12	1.72	0.87
36:BA:427:U:HO2'	36:BA:428:A:H8	0.93	0.87
1:CA:10:A:OP2	5:CE:126:ARG:HD3	1.74	0.87
1:CA:295:C:H2'	1:CA:296:U:H6	1.39	0.87
1:CA:1412:C:H42	1:CA:1488:G:H1	1.14	0.87
2:CB:48:MET:HA	2:CB:51:LEU:HD12	1.56	0.87
2:CB:115:LEU:HD13	2:CB:145:LEU:HD12	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:58:GLU:H	3:CC:65:ALA:HB3	1.36	0.87
36:DA:860:U:O2'	36:DA:861:A:H5'	1.74	0.87
36:DA:2068:U:N3	36:DA:2430:A:H2	1.72	0.87
36:DA:2591:C:H2'	36:DA:2592:G:C8	2.09	0.87
37:DB:20:C:H2'	37:DB:21:G:H5''	1.53	0.87
58:DZ:127:LYS:NZ	58:DZ:164:ALA:HB2	1.87	0.87
1:AA:376:G:H2'	1:AA:377:G:H8	1.39	0.87
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.55	0.87
42:BG:43:LEU:HB3	42:BG:45:GLU:HG2	1.55	0.87
56:BX:89:ILE:HG21	56:BX:92:LEU:HD12	1.53	0.87
57:BY:79:CYS:SG	57:BY:80:GLY:N	2.47	0.87
29:D3:15:TYR:HD2	29:D3:19:GLN:HE22	1.21	0.87
36:DA:398:G:H2'	36:DA:399:G:H8	1.40	0.87
36:DA:575:A:O2'	36:DA:576:U:H5'	1.73	0.87
36:DA:2401:U:H2'	36:DA:2402:C:H5''	1.56	0.87
40:DE:107:THR:O	40:DE:191:PRO:HD3	1.74	0.87
42:DG:83:ARG:HB2	42:DG:84:LYS:HD2	1.54	0.87
57:DY:37:VAL:HG23	57:DY:38:ILE:H	1.39	0.87
1:AA:711:G:H2'	1:AA:712:A:H8	1.39	0.87
13:AM:45:VAL:HA	13:AM:48:LEU:HD11	1.56	0.87
13:AM:108:ARG:HD2	13:AM:108:ARG:N	1.86	0.87
21:AU:16:GLY:O	21:AU:17:THR:HG23	1.74	0.87
36:BA:894:C:H2'	36:BA:895:U:H5'	1.56	0.87
36:BA:2245:U:H5'	36:BA:2246:G:H5'	1.56	0.87
42:BG:180:PHE:HB2	42:BG:182:LYS:NZ	1.89	0.87
1:AA:881:G:P	12:AL:12:ARG:HH22	1.97	0.87
36:BA:1291:C:C2'	36:BA:1292:U:H5'	2.04	0.87
36:BA:2482:G:H22	49:BQ:52:VAL:HG11	1.38	0.87
41:BF:46:ARG:HH11	41:BF:46:ARG:HG3	1.38	0.87
52:BT:28:VAL:CG2	52:BT:47:GLY:H	1.86	0.87
22:CW:54:U:C4'	38:DC:54:SER:HB2	2.04	0.87
28:D2:3:LEU:HD12	36:DA:98:G:H5''	1.55	0.87
36:DA:1291:C:H2'	36:DA:1292:U:H5'	1.55	0.87
36:DA:1380:G:H2'	36:DA:1381:G:C8	2.09	0.87
36:DA:2068:U:H3	36:DA:2430:A:H2	1.16	0.87
1:AA:975:A:H4'	1:AA:976:G:H5''	1.55	0.87
10:AJ:50:ILE:HA	10:AJ:60:ARG:HB3	1.57	0.87
19:AS:16:LEU:H	19:AS:16:LEU:HD12	1.38	0.87
31:B5:3:LYS:HA	31:B5:3:LYS:HE3	1.55	0.87
36:BA:2807:G:H1	36:BA:2893:G:H1	1.23	0.87
38:BC:151:GLU:HA	38:BC:154:ARG:HH11	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:64:LYS:O	48:BP:66:GLY:N	2.08	0.87
7:CG:118:VAL:HG23	7:CG:119:ARG:H	1.38	0.87
36:DA:1190:G:H5'	48:DP:35:HIS:N	1.90	0.87
42:DG:5:VAL:HG12	42:DG:6:ALA:H	1.38	0.87
43:DH:67:LEU:HG	43:DH:71:LEU:HD11	1.56	0.87
57:DY:13:VAL:HG13	57:DY:14:LEU:H	1.37	0.87
58:DZ:85:HIS:HD2	58:DZ:86:VAL:H	1.19	0.87
1:AA:864:A:H5'	1:AA:865:A:OP2	1.74	0.87
28:B2:38:GLN:HB3	28:B2:44:LEU:CD1	2.04	0.87
53:BU:69:CYS:HB2	53:BU:74:LEU:HD11	1.56	0.87
6:CF:37:VAL:HA	6:CF:65:VAL:HG12	1.57	0.87
7:CG:146:GLU:OE2	7:CG:149:ARG:HD2	1.73	0.87
30:D4:8:LYS:O	30:D4:9:LEU:HB2	1.73	0.87
36:DA:2184:G:H2'	36:DA:2185:C:C1'	2.04	0.87
51:DS:97:ARG:HH21	51:DS:98:VAL:HA	1.40	0.87
55:DW:12:ILE:HD12	55:DW:42:ARG:NH1	1.88	0.87
2:AB:209:ARG:HH11	2:AB:239:VAL:HG11	1.40	0.87
12:AL:17:LYS:HD3	12:AL:18:VAL:N	1.89	0.87
27:B1:13:ILE:HD13	27:B1:13:ILE:H	1.38	0.87
36:BA:31:C:H2'	36:BA:32:C:H5''	1.56	0.87
36:BA:2385:C:H2'	36:BA:2386:C:H6	1.36	0.87
36:BA:2735:G:H2'	36:BA:2736:G:C8	2.09	0.87
36:BA:2811:G:OP1	40:BE:60:ASN:HB2	1.73	0.87
1:CA:769:G:O2'	1:CA:770:C:H5'	1.75	0.87
1:CA:793:U:O2	1:CA:1516:G:H4'	1.74	0.87
8:CH:86:ILE:HG21	8:CH:133:LEU:HD23	1.57	0.87
13:CM:10:PRO:O	13:CM:11:ARG:HB2	1.71	0.87
31:D5:36:CYS:HB3	31:D5:49:CYS:HB3	1.55	0.87
36:DA:2245:U:H5'	36:DA:2246:G:H5'	1.54	0.87
36:DA:2482:G:H22	49:DQ:52:VAL:HG11	1.38	0.87
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.05	0.87
25:AZ:368:VAL:HG12	25:AZ:369:THR:H	1.40	0.87
36:BA:910:A:H62	49:BQ:12:GLN:HA	1.36	0.87
56:BX:24:GLY:O	56:BX:82:GLN:HA	1.75	0.87
58:BZ:153:SER:H	58:BZ:167:PRO:HB2	1.40	0.87
1:CA:1423:G:H2'	1:CA:1424:C:C6	2.09	0.87
36:DA:2009:G:H4'	55:DW:40:ASN:ND2	1.89	0.87
48:DP:64:LYS:O	48:DP:66:GLY:N	2.07	0.87
25:AZ:244:ARG:HB3	25:AZ:244:ARG:HH11	1.40	0.87
36:BA:2082:A:H2'	36:BA:2083:G:O4'	1.75	0.87
38:BC:96:GLY:HA3	38:BC:99:ILE:CG1	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:32:TYR:O	52:BT:33:LYS:HB2	1.74	0.87
54:BV:72:VAL:CG2	54:BV:85:LYS:HB2	2.05	0.87
30:D4:8:LYS:HG2	30:D4:9:LEU:N	1.88	0.87
49:DQ:27:VAL:HG12	49:DQ:29:PHE:H	1.39	0.87
50:DR:100:LEU:HD11	50:DR:113:LEU:HD13	1.55	0.87
54:DV:52:VAL:HG13	54:DV:55:ALA:HB3	1.55	0.87
1:AA:254:G:H21	17:AQ:16:GLN:HE22	1.23	0.86
2:AB:77:ALA:HA	2:AB:80:ILE:HD13	1.57	0.86
36:BA:1193:G:H2'	36:BA:1194:A:O4'	1.75	0.86
58:BZ:68:PRO:O	58:BZ:91:LEU:HG	1.75	0.86
1:CA:985:C:H2'	1:CA:986:A:H8	1.38	0.86
5:CE:137:GLU:OE2	5:CE:140:ARG:HD2	1.75	0.86
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.54	0.86
10:CJ:50:ILE:HA	10:CJ:60:ARG:HB3	1.55	0.86
20:CT:57:ARG:NH1	20:CT:103:GLY:H	1.73	0.86
27:D1:44:PRO:O	27:D1:46:LEU:HD22	1.75	0.86
41:DF:46:ARG:HG3	41:DF:46:ARG:HH11	1.40	0.86
50:DR:38:VAL:HB	50:DR:39:PRO:HD3	1.55	0.86
16:AP:53:VAL:HG23	16:AP:54:GLU:H	1.38	0.86
36:DA:740:U:H2'	36:DA:741:G:H8	1.35	0.86
1:AA:78:G:N2	1:AA:91:C:H42	1.72	0.86
1:AA:985:C:H2'	1:AA:986:A:H8	1.38	0.86
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	1.57	0.86
13:AM:97:PRO:CA	13:AM:110:ARG:HD3	2.04	0.86
33:B7:34:ARG:HD3	33:B7:39:ARG:HG3	1.58	0.86
36:BA:1087:G:H2'	36:BA:1088:A:H4'	1.54	0.86
22:CV:59:U:HO2'	22:CV:60:U:H6	0.91	0.86
36:DA:1658:C:H2'	36:DA:1659:U:H6	1.39	0.86
50:DR:13:HIS:CE1	50:DR:16:HIS:H	1.93	0.86
52:DT:130:ALA:O	52:DT:132:LYS:HE2	1.75	0.86
25:AZ:244:ARG:HB3	25:AZ:244:ARG:NH1	1.90	0.86
36:BA:904:C:H2'	36:BA:905:U:H6	1.40	0.86
36:BA:2796:U:O2'	36:BA:2799:C:H5'	1.75	0.86
37:BB:106:G:H2'	37:BB:107:G:H8	1.38	0.86
52:BT:130:ALA:O	52:BT:132:LYS:HE2	1.76	0.86
1:CA:447:G:H2'	1:CA:485:G:N2	1.90	0.86
12:CL:18:VAL:HG23	12:CL:19:ARG:N	1.90	0.86
36:DA:1202:C:H2'	36:DA:1203:G:H5'	1.54	0.86
36:DA:2222:G:H2'	36:DA:2223:G:H8	1.40	0.86
43:DH:23:ARG:O	43:DH:24:VAL:HG23	1.75	0.86
12:AL:18:VAL:HG23	12:AL:19:ARG:N	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:38:GLU:CB	25:AZ:189:ARG:HH11	1.88	0.86
31:B5:36:CYS:HB3	31:B5:49:CYS:HB3	1.56	0.86
36:BA:2124:G:H1'	38:BC:42:GLU:OE2	1.75	0.86
42:BG:34:LEU:HD11	42:BG:100:TRP:CZ2	2.10	0.86
42:BG:63:ILE:HG13	42:BG:64:THR:N	1.89	0.86
2:CB:29:ALA:O	2:CB:32:ILE:HG22	1.74	0.86
25:CZ:322:VAL:HG12	25:CZ:364:PRO:HA	1.55	0.86
26:D0:16:SER:OG	36:DA:2261:C:H3'	1.74	0.86
36:DA:1541:G:H1'	36:DA:1542:A:C4	2.11	0.86
36:DA:2185:C:C2'	36:DA:2186:G:H5'	2.06	0.86
36:DA:2454:G:H2'	36:DA:2455:G:H8	1.40	0.86
5:AE:102:ALA:HB1	5:AE:106:PRO:HG2	1.54	0.86
36:BA:310:A:OP1	57:BY:18:GLY:HA2	1.75	0.86
36:BA:1170:G:H22	36:BA:1179:C:H42	1.22	0.86
36:BA:1541:G:H1'	36:BA:1542:A:C4	2.11	0.86
47:BO:107:ARG:HH12	52:BT:35:LYS:HD2	1.40	0.86
52:BT:80:SER:HB3	52:BT:81:PRO:HD3	1.56	0.86
1:CA:1363(A):A:H4'	1:CA:1364:U:H5''	1.56	0.86
3:CC:58:GLU:H	3:CC:65:ALA:CB	1.88	0.86
36:DA:119:A:H4'	36:DA:120:U:H5'	1.56	0.86
36:DA:655:A:H4'	36:DA:656:G:C5'	2.05	0.86
36:DA:894:C:H2'	36:DA:895:U:H5'	1.57	0.86
36:DA:2735:G:H2'	36:DA:2736:G:C8	2.10	0.86
40:DE:107:THR:O	40:DE:190:GLY:HA2	1.75	0.86
58:DZ:139:VAL:HG12	58:DZ:140:ASP:H	1.40	0.86
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HG13	1.55	0.86
13:AM:91:ARG:HB3	13:AM:98:VAL:HG22	1.57	0.86
36:BA:2403:C:H42	36:BA:2414:G:H1	1.24	0.86
38:BC:214:VAL:HG23	38:BC:224:ILE:HG21	1.57	0.86
39:BD:226:MET:HB3	39:BD:230:ASP:HB2	1.56	0.86
46:BN:83:LYS:HG2	46:BN:84:LYS:H	1.39	0.86
1:CA:438:G:C5'	4:CD:123:HIS:HD1	1.88	0.86
16:CP:14:ASN:HA	16:CP:42:ARG:NH1	1.89	0.86
33:D7:40:TRP:CZ3	36:DA:459:U:H4'	2.09	0.86
39:DD:186:HIS:NE2	39:DD:188:GLU:HB2	1.91	0.86
39:DD:226:MET:HB3	39:DD:230:ASP:HB2	1.57	0.86
42:BG:77:ILE:HB	42:BG:81:LYS:O	1.75	0.86
50:BR:38:VAL:HB	50:BR:39:PRO:HD3	1.55	0.86
10:CJ:12:ASP:HB3	10:CJ:15:THR:OG1	1.75	0.86
36:DA:813:U:H2'	36:DA:814:C:C6	2.11	0.86
36:DA:1603:A:H8	36:DA:1603:A:H5'	1.41	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:72:VAL:HG23	38:DC:111:ASP:HB3	1.55	0.86
46:DN:28:THR:HG23	46:DN:29:LYS:H	1.40	0.86
52:DT:28:VAL:CG2	52:DT:47:GLY:H	1.88	0.86
52:DT:38:ASN:HD22	52:DT:38:ASN:C	1.78	0.86
1:AA:405:U:H3'	1:AA:406:G:H5'	1.58	0.86
1:AA:419:C:N4	1:AA:424:G:H22	1.72	0.86
1:AA:993:G:H22	1:AA:1046:A:H1'	1.39	0.86
4:AD:78:LEU:HD21	4:AD:96:LEU:HB3	1.57	0.86
34:B8:10:ALA:HB2	48:BP:61:ARG:NH1	1.90	0.86
36:BA:2401:U:H2'	36:BA:2402:C:H5''	1.56	0.86
1:CA:408:A:H4'	4:CD:112:VAL:HG11	1.57	0.86
2:CB:229:VAL:HG12	2:CB:230:VAL:H	1.41	0.86
32:D6:48:VAL:O	32:D6:49:HIS:ND1	2.09	0.86
36:DA:612:C:H2'	36:DA:613:G:H5'	1.58	0.86
36:DA:2358:G:N2	36:DA:2359:C:H1'	1.89	0.86
36:DA:2796:U:O2'	36:DA:2799:C:H5'	1.74	0.86
58:DZ:68:PRO:O	58:DZ:91:LEU:HG	1.75	0.86
1:AA:8:A:N6	4:AD:208:SER:HB2	1.90	0.86
1:AA:1054:C:N4	24:AY:34:G:H1'	1.91	0.86
36:BA:1860:G:H1	36:BA:1882:C:H42	1.21	0.86
36:BA:2454:G:H2'	36:BA:2455:G:H8	1.41	0.86
57:BY:46:LYS:N	57:BY:62:GLU:HG2	1.91	0.86
58:BZ:165:VAL:HG12	58:BZ:166:SER:N	1.87	0.86
4:CD:78:LEU:HD21	4:CD:96:LEU:HB3	1.57	0.86
9:CI:9:ARG:HB2	9:CI:104:ARG:HH12	1.41	0.86
19:CS:41:VAL:HB	19:CS:44:MET:HG2	1.56	0.86
42:DG:52:ILE:HB	42:DG:54:GLU:OE1	1.76	0.86
1:AA:751:U:H4'	15:AO:24:SER:HB2	1.56	0.85
1:AA:1203:C:OP1	14:AN:3:ARG:HD3	1.76	0.85
39:BD:35:LYS:CG	39:BD:63:ARG:HG2	2.05	0.85
36:DA:996:A:O2'	36:DA:997:G:H5'	1.76	0.85
36:DA:1222:C:C2'	36:DA:1223:G:H5''	2.05	0.85
39:DD:35:LYS:HG2	39:DD:63:ARG:HG2	1.57	0.85
39:DD:126:GLN:O	39:DD:193:VAL:HG11	1.75	0.85
46:DN:10:GLU:HG3	46:DN:11:PRO:HD2	1.58	0.85
57:DY:79:CYS:SG	57:DY:80:GLY:N	2.49	0.85
1:AA:351:G:H4'	1:AA:352:C:OP1	1.76	0.85
24:AY:75:C:C5	25:AZ:231:ILE:HA	2.11	0.85
28:B2:41:ILE:HG13	28:B2:42:GLY:N	1.90	0.85
36:BA:2760:C:H2'	36:BA:2761:G:H5''	1.59	0.85
50:BR:100:LEU:HD11	50:BR:113:LEU:HD13	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:419:C:N4	1:CA:424:G:H22	1.73	0.85
25:CZ:244:ARG:HB3	25:CZ:244:ARG:NH1	1.91	0.85
48:DP:47:ASP:HB3	48:DP:49:ARG:N	1.90	0.85
1:AA:1003:G:C2'	1:AA:1004:A:H4'	2.04	0.85
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.58	0.85
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.38	0.85
7:AG:118:VAL:HG23	7:AG:119:ARG:H	1.39	0.85
36:DA:1291:C:C2'	36:DA:1292:U:H5'	2.06	0.85
42:DG:103:LEU:O	42:DG:106:LEU:HB3	1.77	0.85
9:AI:9:ARG:HB2	9:AI:104:ARG:HH12	1.39	0.85
22:AV:59:U:HO2'	22:AV:60:U:H6	0.87	0.85
26:B0:37:LEU:HB2	26:B0:59:LEU:HB2	1.59	0.85
32:B6:5:VAL:CG1	36:BA:2283:C:H5'	2.07	0.85
36:BA:1658:C:H2'	36:BA:1659:U:H6	1.41	0.85
39:BD:186:HIS:NE2	39:BD:188:GLU:HB2	1.91	0.85
40:BE:107:THR:O	40:BE:191:PRO:HD3	1.76	0.85
58:BZ:81:ARG:HB2	58:BZ:81:ARG:CZ	2.04	0.85
1:CA:1003:G:C2'	1:CA:1004:A:H4'	2.05	0.85
1:CA:1410:G:O2'	1:CA:1411:C:H5'	1.75	0.85
1:CA:1480:G:H2'	1:CA:1481:U:O4'	1.76	0.85
15:CO:10:LYS:O	15:CO:10:LYS:HE3	1.76	0.85
22:CV:6:G:H1	22:CV:67:C:H42	1.24	0.85
28:D2:21:LEU:HD22	28:D2:64:LEU:HD12	1.58	0.85
31:D5:7:PRO:HA	36:DA:2615:U:C2	2.12	0.85
36:DA:407:G:H2'	36:DA:408:G:H8	1.42	0.85
36:DA:2124:G:H1'	38:DC:42:GLU:OE2	1.76	0.85
36:DA:2893:G:H5'	36:DA:2894:G:H5'	1.59	0.85
37:DB:17:C:H42	37:DB:68:C:H42	1.22	0.85
38:DC:23:ASP:HB3	38:DC:27:ARG:NH1	1.91	0.85
41:DF:135:LYS:HB3	41:DF:138:GLU:HB2	1.58	0.85
1:AA:117:G:O6	1:AA:289:G:H1'	1.76	0.85
7:AG:146:GLU:OE2	7:AG:149:ARG:HD2	1.77	0.85
10:AJ:63:PHE:HB3	14:AN:58:LYS:HA	1.56	0.85
40:BE:34:VAL:O	40:BE:35:GLN:HB2	1.75	0.85
36:DA:483:A:H1'	57:DY:60:PHE:CE1	2.12	0.85
46:DN:23:LEU:HA	46:DN:26:LEU:HD23	1.59	0.85
52:DT:80:SER:HB3	52:DT:81:PRO:HD3	1.57	0.85
54:DV:72:VAL:CG2	54:DV:85:LYS:HB2	2.06	0.85
58:DZ:26:GLY:HA2	58:DZ:85:HIS:CD2	2.12	0.85
26:B0:11:ARG:HB2	26:B0:11:ARG:NH1	1.91	0.85
36:BA:1062:G:H1'	45:BK:75:UNK:CB	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:72:VAL:HG23	38:BC:111:ASP:HB3	1.59	0.85
38:BC:147:PHE:C	38:BC:149:ILE:H	1.79	0.85
1:CA:1203:C:OP1	14:CN:3:ARG:HD3	1.75	0.85
36:DA:1599:C:H2'	36:DA:1600:C:H6	1.42	0.85
36:DA:1629:U:H2'	36:DA:1630:G:C8	2.11	0.85
42:DG:130:ASN:CG	42:DG:160:VAL:HG13	1.95	0.85
4:AD:201:GLN:HA	4:AD:204:ILE:HD12	1.59	0.85
28:B2:69:ARG:NH1	36:BA:111:A:H4'	1.91	0.85
36:BA:329:G:H22	57:BY:19:LYS:HE3	1.40	0.85
36:BA:407:G:H2'	36:BA:408:G:H8	1.42	0.85
36:BA:813:U:H2'	36:BA:814:C:C6	2.11	0.85
38:BC:10:LEU:HD12	38:BC:32:LEU:HD23	1.56	0.85
42:BG:16:ARG:HD2	42:BG:20:ILE:HD11	1.57	0.85
1:CA:751:U:H4'	15:CO:24:SER:HB2	1.57	0.85
1:CA:1002:G:H2'	1:CA:1003:G:C8	2.10	0.85
10:CJ:43:ARG:HB2	10:CJ:67:THR:HG22	1.58	0.85
36:DA:2591:C:H2'	36:DA:2592:G:H8	1.42	0.85
41:DF:160:ASN:HB3	41:DF:163:VAL:HB	1.58	0.85
2:AB:204:ASN:ND2	2:AB:206:ASP:H	1.75	0.85
32:B6:53:LYS:HD3	32:B6:54:ILE:H	1.39	0.85
57:BY:81:LYS:NZ	57:BY:99:CYS:HB2	1.91	0.85
1:CA:226:G:O2'	1:CA:227:G:H5'	1.77	0.85
36:DA:511:U:H3'	36:DA:512:G:C5'	2.05	0.85
36:DA:2200:C:H42	36:DA:2223:G:H1	1.24	0.85
46:DN:45:ASN:N	46:DN:45:ASN:HD22	1.72	0.85
46:DN:133:GLN:HG2	46:DN:134:ARG:H	1.40	0.85
1:AA:1002:G:H2'	1:AA:1003:G:C8	2.10	0.85
1:AA:1053:G:H4'	1:AA:1054:C:C5'	2.06	0.85
35:D9:36:GLN:HE22	36:DA:1031:G:N2	1.75	0.85
36:DA:2833:G:H3'	36:DA:2834:G:H5''	1.56	0.85
1:AA:1498:U:C5	23:AX:20:U:H5'	2.12	0.85
25:AZ:322:VAL:CG1	25:AZ:364:PRO:HA	2.07	0.85
34:B8:25:MET:HG3	48:BP:64:LYS:HB2	1.56	0.85
42:BG:7:LEU:HB3	42:BG:100:TRP:CE3	2.11	0.85
46:BN:133:GLN:HG2	46:BN:134:ARG:H	1.41	0.85
47:BO:2:ILE:CD1	47:BO:82:ASN:HD22	1.89	0.85
54:BV:19:LYS:HG2	54:BV:94:LEU:HB2	1.59	0.85
54:BV:72:VAL:HG23	54:BV:85:LYS:HB2	1.56	0.85
56:BX:60:ARG:HG3	56:BX:75:ASP:OD2	1.77	0.85
1:CA:265:G:C2'	1:CA:266:G:H5''	2.06	0.85
1:CA:419:C:H42	1:CA:424:G:H22	1.22	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:D6:53:LYS:HD3	32:D6:54:ILE:H	1.42	0.85
36:DA:612:C:H2'	36:DA:613:G:C5'	2.07	0.85
37:DB:80:U:H2'	37:DB:81:G:N2	1.91	0.85
55:DW:11:ARG:NH1	55:DW:98:LYS:HB3	1.90	0.85
1:AA:1125:U:H3	10:AJ:5:ARG:NH2	1.75	0.84
20:AT:72:LEU:HD22	20:AT:76:ALA:HB1	1.58	0.84
36:BA:1353:A:H2'	36:BA:1354:A:C8	2.12	0.84
36:BA:2110:G:H22	36:BA:2178:C:H41	1.24	0.84
52:BT:38:ASN:HD22	52:BT:38:ASN:C	1.80	0.84
58:BZ:153:SER:H	58:BZ:167:PRO:CB	1.90	0.84
1:CA:1348:U:H4'	9:CI:120:ARG:HD2	1.58	0.84
36:DA:1677:A:H2'	36:DA:1678:G:C8	2.12	0.84
36:DA:1818:U:H2'	39:DD:157:ARG:HG3	1.58	0.84
36:DA:2020:A:O2'	36:DA:2021:C:H5'	1.77	0.84
1:AA:1435:G:H2'	1:AA:1436:U:H6	1.39	0.84
11:AK:120:ARG:HH22	11:AK:126:ARG:HE	1.24	0.84
30:B4:6:HIS:HB3	42:BG:67:LYS:HE3	1.57	0.84
36:BA:6:A:O2'	46:BN:130:HIS:HB2	1.77	0.84
36:BA:612:C:H2'	36:BA:613:G:H5'	1.59	0.84
36:BA:863:A:H2'	36:BA:864:G:C8	2.11	0.84
52:BT:5:ALA:O	52:BT:9:LEU:HG	1.76	0.84
1:CA:770:C:O2'	1:CA:771:G:H5'	1.77	0.84
1:CA:1002:G:H2'	1:CA:1003:G:H8	1.42	0.84
8:CH:11:THR:HG23	8:CH:14:ARG:HH12	1.40	0.84
36:DA:234:C:H2'	36:DA:235:U:C6	2.12	0.84
36:DA:662:G:OP1	48:DP:18:ARG:HD2	1.78	0.84
56:DX:24:GLY:O	56:DX:82:GLN:HA	1.77	0.84
1:AA:63:C:H42	1:AA:104:G:H1	1.22	0.84
1:AA:831:U:H2'	1:AA:832:C:C5	2.12	0.84
10:AJ:12:ASP:HB3	10:AJ:15:THR:OG1	1.75	0.84
22:AV:6:G:H1	22:AV:67:C:H42	1.24	0.84
36:BA:483:A:H1'	57:BY:60:PHE:CE1	2.11	0.84
36:BA:860:U:O2'	36:BA:861:A:H5'	1.76	0.84
36:BA:1576:U:H2'	36:BA:1577:C:C6	2.12	0.84
37:BB:68:C:H2'	37:BB:69:G:H8	1.43	0.84
41:BF:137:LYS:HA	41:BF:140:LEU:CB	2.07	0.84
52:BT:53:ARG:NH1	52:BT:53:ARG:HB3	1.92	0.84
52:BT:65:LYS:HE3	52:BT:66:VAL:H	1.41	0.84
13:CM:52:GLU:HA	13:CM:55:ARG:HB3	1.58	0.84
25:CZ:268:THR:CG2	25:CZ:289:LEU:HD23	2.07	0.84
36:DA:1132:A:N3	46:DN:73:THR:HG21	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:627:G:H2'	1:AA:628:G:H8	1.43	0.84
37:BB:30:C:H2'	37:BB:31:C:O4'	1.77	0.84
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.13	0.84
5:CE:47:LYS:HD3	5:CE:47:LYS:N	1.93	0.84
36:DA:310:A:OP1	57:DY:18:GLY:HA2	1.77	0.84
36:DA:662:G:H2'	36:DA:663:G:C8	2.11	0.84
36:DA:1576:U:H2'	36:DA:1577:C:C6	2.11	0.84
36:DA:2082:A:H2'	36:DA:2083:G:O4'	1.77	0.84
49:DQ:20:ALA:H	58:DZ:79:ARG:NH2	1.76	0.84
1:AA:1282:C:H2'	1:AA:1283:G:H8	1.42	0.84
8:AH:64:LYS:HD2	8:AH:79:VAL:HG21	1.59	0.84
20:AT:36:LEU:CD1	20:AT:59:ALA:HB2	2.07	0.84
36:BA:1378:A:O2'	36:BA:1379:A:H5'	1.77	0.84
36:BA:1543:C:H3'	36:BA:1544:A:C5'	2.07	0.84
1:CA:902:G:H2'	1:CA:903:G:H8	1.42	0.84
1:CA:1324:A:H4'	1:CA:1362:C:H4'	1.59	0.84
34:D8:28:GLY:HA2	34:D8:32:LEU:HD23	1.57	0.84
36:DA:871:U:H4'	49:DQ:69:PHE:CE2	2.12	0.84
36:DA:2511:U:H4'	40:DE:124:GLY:CA	2.06	0.84
38:DC:63:SER:HA	38:DC:160:ARG:HA	1.59	0.84
38:DC:96:GLY:HA3	38:DC:99:ILE:CG1	2.06	0.84
41:DF:137:LYS:HA	41:DF:140:LEU:CB	2.08	0.84
57:DY:43:ASN:C	57:DY:44:ILE:HD12	1.98	0.84
36:BA:1682:G:H5'	36:BA:1762:A:O2'	1.77	0.84
49:BQ:20:ALA:H	58:BZ:79:ARG:NH2	1.75	0.84
2:CB:63:MET:O	2:CB:63:MET:HG3	1.75	0.84
10:CJ:4:ILE:HG13	10:CJ:99:LYS:O	1.76	0.84
12:CL:20:LYS:HD3	12:CL:20:LYS:N	1.92	0.84
13:CM:14:ARG:HG3	13:CM:44:ARG:NH1	1.93	0.84
25:CZ:137:LYS:HG2	62:CZ:501:GDP:C6	2.12	0.84
36:DA:1773:A:H2'	36:DA:1774:C:O4'	1.78	0.84
36:DA:1860:G:H1	36:DA:1882:C:N4	1.74	0.84
49:DQ:67:ARG:HD3	49:DQ:102:VAL:HB	1.59	0.84
1:AA:35:G:H2'	1:AA:36:C:C6	2.12	0.84
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.39	0.84
6:AF:37:VAL:HA	6:AF:65:VAL:HG12	1.58	0.84
19:AS:41:VAL:HB	19:AS:44:MET:HG2	1.59	0.84
36:BA:622:G:O2'	36:BA:623:G:H5'	1.77	0.84
38:BC:63:SER:HA	38:BC:160:ARG:HA	1.59	0.84
41:BF:160:ASN:HB3	41:BF:163:VAL:HB	1.57	0.84
43:BH:23:ARG:O	43:BH:24:VAL:HG23	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:351:G:H4'	1:CA:352:C:OP1	1.75	0.84
1:CA:1359:C:OP2	14:CN:22:THR:HG21	1.77	0.84
25:CZ:137:LYS:HA	62:CZ:501:GDP:N1	1.91	0.84
54:DV:81:TYR:C	54:DV:82:ARG:HD2	1.98	0.84
36:BA:612:C:H2'	36:BA:613:G:C5'	2.08	0.84
36:BA:1668:A:H4'	36:BA:1669:A:O5'	1.77	0.84
36:BA:2807:G:C3'	36:BA:2808:U:H5''	2.08	0.84
49:BQ:67:ARG:HD3	49:BQ:102:VAL:HB	1.59	0.84
57:BY:37:VAL:HG23	57:BY:38:ILE:H	1.42	0.84
58:BZ:10:ARG:NE	58:BZ:36:LYS:HB2	1.92	0.84
16:CP:21:VAL:HG13	16:CP:33:ILE:HB	1.60	0.84
32:D6:27:LYS:CG	32:D6:30:THR:HB	2.08	0.84
39:DD:65:ILE:HD13	39:DD:65:ILE:H	1.40	0.84
36:BA:655:A:C4'	36:BA:656:G:H5'	2.07	0.84
36:BA:662:G:H2'	36:BA:663:G:C8	2.13	0.84
38:BC:99:ILE:HD12	38:BC:102:LYS:HZ3	1.43	0.84
1:CA:975:A:H4'	1:CA:976:G:H5''	1.60	0.84
22:CV:20:U:H3'	22:CV:21:A:C5'	2.07	0.84
25:CZ:244:ARG:HB3	25:CZ:244:ARG:HH11	1.40	0.84
34:D8:25:MET:HG3	48:DP:64:LYS:HB2	1.58	0.84
43:DH:85:LYS:O	43:DH:132:ARG:HB2	1.78	0.84
2:AB:229:VAL:HG12	2:AB:230:VAL:H	1.41	0.84
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.12	0.84
9:AI:43:ALA:HB2	9:AI:74:ILE:HD13	1.59	0.84
24:CY:53:G:H5''	25:CZ:332:THR:HG21	1.59	0.84
29:D3:4:LEU:HD11	29:D3:39:ASP:OD1	1.78	0.84
36:DA:271:A:H2	36:DA:366:C:H1'	1.42	0.84
36:DA:2377:A:H2'	36:DA:2378:A:C8	2.13	0.84
38:DC:82:LYS:HG3	38:DC:147:PHE:CD1	2.12	0.84
38:DC:214:VAL:HG23	38:DC:224:ILE:HG21	1.60	0.84
1:AA:1282:C:H2'	1:AA:1283:G:C8	2.13	0.83
36:BA:1441:G:O2'	36:BA:1442:G:H5'	1.78	0.83
36:BA:1818:U:H2'	39:BD:157:ARG:HG3	1.57	0.83
36:BA:2039:C:H2'	36:BA:2040:C:H6	1.42	0.83
38:BC:82:LYS:HG3	38:BC:147:PHE:CD1	2.13	0.83
39:BD:181:GLU:HA	39:BD:272:ALA:O	1.78	0.83
46:BN:10:GLU:HG3	46:BN:11:PRO:HD2	1.60	0.83
1:CA:1125:U:H3	10:CJ:5:ARG:NH2	1.76	0.83
10:CJ:78:ASN:HB2	10:CJ:81:THR:HG23	1.59	0.83
26:D0:27:GLU:HA	26:D0:67:VAL:O	1.77	0.83
31:D5:48:GLU:O	31:D5:49:CYS:SG	2.35	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:329:G:H22	57:DY:19:LYS:HE3	1.43	0.83
36:DA:996:A:H5'	53:DU:94:ASN:HB2	1.60	0.83
36:DA:2403:C:H42	36:DA:2414:G:H1	1.26	0.83
38:DC:40:THR:HA	38:DC:177:LYS:HA	1.60	0.83
49:DQ:140:ALA:HB1	58:DZ:99:TYR:HB2	1.57	0.83
54:DV:69:LYS:HB2	54:DV:88:ARG:HD3	1.60	0.83
3:AC:58:GLU:H	3:AC:65:ALA:CB	1.91	0.83
25:AZ:241:ARG:HB2	25:AZ:285:ASN:HD21	1.41	0.83
25:AZ:268:THR:CG2	25:AZ:289:LEU:HD23	2.07	0.83
36:BA:271:A:H2	36:BA:366:C:H1'	1.42	0.83
36:BA:1010:A:H1'	36:BA:1153:C:H1'	1.60	0.83
36:BA:1047:G:N2	36:BA:1110:G:H2'	1.93	0.83
36:BA:2185:C:C2'	36:BA:2186:G:H5'	2.08	0.83
36:BA:2893:G:H5'	36:BA:2894:G:H5'	1.60	0.83
1:CA:173:U:H5'	1:CA:197:A:O4'	1.78	0.83
25:CZ:241:ARG:HB2	25:CZ:285:ASN:HD21	1.42	0.83
36:DA:265:A:H8	36:DA:266:G:H1'	1.38	0.83
36:DA:833:U:H5''	48:DP:48:PRO:CB	2.07	0.83
36:DA:1062:G:H1'	45:DK:75:UNK:CB	2.08	0.83
41:DF:132:VAL:HG22	41:DF:133:ASN:H	1.41	0.83
13:AM:37:THR:O	13:AM:39:ILE:HG13	1.77	0.83
15:AO:36:ILE:HG23	15:AO:56:LEU:HD11	1.58	0.83
29:B3:4:LEU:HD11	29:B3:39:ASP:OD1	1.78	0.83
32:B6:6:ARG:HB3	32:B6:6:ARG:HH11	1.42	0.83
36:BA:2591:C:H2'	36:BA:2592:G:C8	2.13	0.83
42:BG:130:ASN:HB3	42:BG:160:VAL:HA	1.60	0.83
57:BY:81:LYS:HD3	57:BY:97:ARG:O	1.78	0.83
37:DB:114:C:H4'	51:DS:46:VAL:HG13	1.60	0.83
39:DD:28:GLU:H	39:DD:29:PRO:HD2	1.43	0.83
25:AZ:67:HIS:HE1	25:AZ:98:GLN:HE22	1.25	0.83
32:B6:48:VAL:O	32:B6:49:HIS:ND1	2.12	0.83
1:CA:820:U:H4'	1:CA:821:G:OP2	1.77	0.83
4:CD:98:GLU:HG2	4:CD:189:PRO:HG3	1.58	0.83
12:CL:17:LYS:HD3	12:CL:18:VAL:N	1.93	0.83
25:CZ:67:HIS:HE1	25:CZ:98:GLN:HE22	1.22	0.83
33:D7:34:ARG:HD3	33:D7:39:ARG:HG3	1.60	0.83
37:DB:30:C:H2'	37:DB:31:C:O4'	1.77	0.83
1:AA:1281:U:H5''	1:AA:1282:C:H5	1.43	0.83
1:AA:1487:G:O2'	1:AA:1488:G:H5'	1.77	0.83
36:BA:2476:A:H2'	36:BA:2477:C:H5''	1.61	0.83
36:BA:2814:C:H2'	36:BA:2815:C:H6	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:135:LYS:HB3	41:BF:138:GLU:HB2	1.59	0.83
1:CA:155:C:H2'	1:CA:156:G:C8	2.12	0.83
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.43	0.83
8:CH:10:LEU:HD22	8:CH:83:ILE:CD1	2.06	0.83
23:CX:20:U:H2'	23:CX:21:C:H6	1.41	0.83
36:DA:1301:A:O2'	36:DA:1302:A:H2'	1.79	0.83
41:DF:11:VAL:HG12	41:DF:12:LEU:H	1.42	0.83
46:DN:28:THR:HG23	46:DN:29:LYS:N	1.93	0.83
52:DT:88:ILE:HG22	52:DT:89:VAL:HG23	1.60	0.83
1:AA:194:C:H2'	1:AA:195:A:H5''	1.60	0.83
1:AA:226:G:O2'	1:AA:227:G:H5'	1.78	0.83
1:AA:355:C:H2'	1:AA:356:A:H8	1.44	0.83
7:AG:69:VAL:CA	7:AG:138:LYS:HD2	2.07	0.83
8:AH:10:LEU:CD2	8:AH:83:ILE:HD11	2.08	0.83
14:AN:48:ALA:HB2	14:AN:53:LEU:HD12	1.59	0.83
23:AX:23:C:H2'	23:AX:24:C:C6	2.13	0.83
27:B1:13:ILE:CD1	36:BA:396:G:H5'	2.06	0.83
28:B2:68:ARG:HH12	28:B2:72:ALA:HB2	1.42	0.83
36:BA:2302:G:H3'	36:BA:2303:G:H8	1.44	0.83
40:BE:132:HIS:HA	40:BE:135:HIS:CE1	2.14	0.83
56:BX:44:GLU:HG3	56:BX:50:LYS:HA	1.59	0.83
4:CD:107:ARG:NH2	4:CD:194:LEU:HD12	1.92	0.83
9:CI:57:GLY:O	9:CI:58:HIS:HB2	1.75	0.83
9:CI:104:ARG:HG2	9:CI:105:ASP:H	1.44	0.83
20:CT:49:ALA:O	20:CT:53:LEU:HD12	1.78	0.83
27:D1:14:VAL:HG21	36:DA:188:G:H5'	1.61	0.83
36:DA:2377:A:H2'	36:DA:2378:A:H8	1.43	0.83
38:DC:214:VAL:HG23	38:DC:224:ILE:HD13	1.59	0.83
1:AA:155:C:H2'	1:AA:156:G:C8	2.14	0.83
5:AE:150:ARG:NH1	5:AE:150:ARG:HB2	1.93	0.83
34:B8:10:ALA:CA	34:B8:13:ARG:HG2	2.09	0.83
36:BA:1301:A:O2'	36:BA:1302:A:H2'	1.79	0.83
36:BA:1503:U:H2'	36:BA:1504:C:H6	1.44	0.83
36:BA:1503:U:H2'	36:BA:1504:C:C6	2.14	0.83
36:BA:2122:U:H2'	36:BA:2123:G:C8	2.14	0.83
36:BA:2837:G:H2'	36:BA:2838:G:H8	1.43	0.83
40:BE:38:THR:HB	40:BE:41:LYS:HG2	1.60	0.83
1:CA:194:C:H2'	1:CA:195:A:H5''	1.61	0.83
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.42	0.83
19:CS:16:LEU:CA	19:CS:19:VAL:HB	2.06	0.83
20:CT:72:LEU:HD22	20:CT:76:ALA:HB1	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:322:VAL:CG1	25:CZ:364:PRO:HA	2.07	0.83
30:D4:10:VAL:HG23	30:D4:11:PRO:HD2	1.61	0.83
7:AG:64:GLN:HE21	7:AG:68:ASN:ND2	1.77	0.83
11:AK:52:GLY:O	11:AK:55:LYS:HE2	1.79	0.83
36:BA:372:G:H22	36:BA:400:G:H2'	1.39	0.83
36:BA:996:A:O2'	36:BA:997:G:H5'	1.79	0.83
36:BA:2379:G:H2'	36:BA:2380:C:C6	2.14	0.83
36:BA:2841:C:H2'	36:BA:2842:G:C8	2.14	0.83
42:BG:85:GLY:O	42:BG:86:MET:HB3	1.79	0.83
57:BY:8:LYS:HB2	57:BY:28:LYS:HZ1	1.42	0.83
58:BZ:61:LEU:HD11	58:BZ:67:LEU:HD13	1.59	0.83
1:CA:78:G:H22	1:CA:91:C:N4	1.77	0.83
1:CA:736:C:H2'	1:CA:737:A:H8	1.39	0.83
1:CA:1301:U:H3'	1:CA:1302:U:C5'	2.08	0.83
2:CB:167:PRO:HG2	2:CB:192:SER:OG	1.79	0.83
36:DA:2127:G:H4'	38:DC:37:PHE:CD1	2.13	0.83
36:DA:2807:G:H1	36:DA:2893:G:H1	1.23	0.83
52:DT:68:TYR:O	52:DT:70:VAL:N	2.12	0.83
58:DZ:76:LEU:HD11	58:DZ:81:ARG:HH12	1.43	0.83
1:AA:408:A:H4'	4:AD:112:VAL:HG11	1.58	0.83
10:AJ:4:ILE:HG13	10:AJ:99:LYS:O	1.78	0.83
18:AR:45:SER:HA	18:AR:51:LEU:HD21	1.59	0.83
36:BA:884:C:H42	36:BA:893:C:H42	1.26	0.83
46:BN:83:LYS:HG2	46:BN:84:LYS:N	1.94	0.83
48:BP:105:LEU:O	48:BP:106:LEU:HB2	1.77	0.83
52:BT:62:THR:HG22	52:BT:75:ILE:HG23	1.61	0.83
1:CA:368:U:OP2	25:CZ:291:ARG:HD3	1.78	0.83
1:CA:1282:C:H2'	1:CA:1283:G:H8	1.43	0.83
4:CD:100:ARG:HE	4:CD:118:ARG:HH22	1.26	0.83
25:CZ:215:ARG:HB3	25:CZ:282:ALA:HB3	1.61	0.83
26:D0:37:LEU:HB2	26:D0:59:LEU:HB2	1.61	0.83
40:DE:30:PRO:HD3	40:DE:180:ASN:ND2	1.94	0.83
42:DG:7:LEU:HD22	42:DG:100:TRP:CZ3	2.14	0.83
49:DQ:42:ILE:O	49:DQ:94:VAL:HA	1.79	0.83
1:AA:447:G:H2'	1:AA:485:G:N2	1.92	0.83
36:BA:1132:A:N3	46:BN:73:THR:HG21	1.94	0.83
36:BA:2122:U:H2'	36:BA:2123:G:H8	1.41	0.83
1:CA:35:G:H2'	1:CA:36:C:C6	2.13	0.83
1:CA:80:G:H1	1:CA:90:U:H5'	1.43	0.83
2:CB:80:ILE:HD12	2:CB:80:ILE:H	1.40	0.83
5:CE:102:ALA:HB1	5:CE:106:PRO:CG	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:84:ASN:N	6:CF:84:ASN:HD22	1.74	0.83
36:DA:802:A:H2'	36:DA:803:U:C6	2.12	0.83
54:DV:29:PRO:HA	54:DV:61:VAL:CG2	2.09	0.83
22:AV:20:U:H3'	22:AV:21:A:C5'	2.09	0.82
1:CA:811:C:H4'	1:CA:900:A:N6	1.94	0.82
36:DA:925:C:H2'	36:DA:926:A:C5'	2.04	0.82
37:DB:68:C:H2'	37:DB:69:G:H8	1.43	0.82
49:DQ:34:LEU:HD11	49:DQ:129:THR:HB	1.59	0.82
1:AA:1305:G:HO2'	1:AA:1306:A:H8	1.27	0.82
1:AA:1324:A:H4'	1:AA:1362:C:H4'	1.61	0.82
5:AE:110:LEU:HD13	5:AE:118:ILE:HG21	1.62	0.82
7:AG:113:GLU:HB2	7:AG:119:ARG:HG2	1.61	0.82
7:AG:126:ASP:HB3	7:AG:131:LYS:O	1.78	0.82
20:AT:49:ALA:O	20:AT:53:LEU:HD12	1.78	0.82
22:AV:63:G:H2'	22:AV:64:A:C8	2.14	0.82
23:AX:20:U:H2'	23:AX:21:C:H6	1.43	0.82
36:BA:2208:A:H1'	36:BA:2219:G:N7	1.92	0.82
43:BH:153:LYS:H	43:BH:153:LYS:HD3	1.43	0.82
52:BT:60:THR:HG22	52:BT:77:PRO:HA	1.60	0.82
1:CA:711:G:H2'	1:CA:712:A:H8	1.41	0.82
1:AA:18:C:H5''	5:AE:127:ASN:ND2	1.92	0.82
1:AA:80:G:H1	1:AA:90:U:H5'	1.43	0.82
4:AD:28:SER:HB3	4:AD:29:PRO:CD	2.09	0.82
36:BA:827:U:H2'	36:BA:2068:U:C2	2.14	0.82
36:BA:1803:A:O3'	39:BD:259:THR:HG21	1.80	0.82
36:BA:2498:C:O2'	36:BA:2499:C:H5'	1.79	0.82
41:BF:137:LYS:HA	41:BF:140:LEU:HB3	1.61	0.82
49:BQ:44:ALA:HA	49:BQ:47:ILE:HD12	1.59	0.82
36:DA:145:G:H2'	36:DA:146:G:H5''	1.60	0.82
42:DG:5:VAL:H	42:DG:8:LYS:HB3	1.44	0.82
42:DG:114:ILE:HG23	42:DG:114:ILE:O	1.78	0.82
57:DY:81:LYS:NZ	57:DY:99:CYS:HB2	1.95	0.82
58:DZ:101:PRO:O	58:DZ:102:LEU:HD23	1.79	0.82
1:AA:10:A:OP2	5:AE:126:ARG:HD3	1.78	0.82
1:AA:80:G:N1	1:AA:90:U:H5'	1.94	0.82
1:AA:736:C:H2'	1:AA:737:A:H8	1.41	0.82
15:AO:10:LYS:HE3	15:AO:10:LYS:O	1.80	0.82
36:BA:659:C:H2'	36:BA:660:G:H8	1.43	0.82
36:BA:1297:C:OP1	36:BA:2710:C:H4'	1.79	0.82
39:BD:30:GLU:HG3	39:BD:63:ARG:CZ	2.09	0.82
39:BD:34:VAL:HG23	39:BD:35:LYS:H	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:126:GLN:O	39:BD:193:VAL:HG11	1.80	0.82
41:BF:11:VAL:HG12	41:BF:12:LEU:H	1.43	0.82
51:BS:94:TYR:O	51:BS:95:HIS:HB3	1.77	0.82
57:BY:43:ASN:C	57:BY:44:ILE:HD12	1.99	0.82
1:CA:80:G:N1	1:CA:90:U:H5'	1.93	0.82
2:CB:107:THR:HG23	2:CB:110:GLN:HE22	1.43	0.82
5:CE:76:ILE:HG12	5:CE:78:HIS:H	1.43	0.82
11:CK:52:GLY:O	11:CK:55:LYS:HE2	1.78	0.82
36:DA:6:A:O2'	46:DN:130:HIS:HB2	1.79	0.82
36:DA:141:A:H8	36:DA:1408:C:HO2'	1.28	0.82
36:DA:2401:U:C2'	36:DA:2402:C:H5''	2.09	0.82
40:DE:195:LEU:HD12	40:DE:196:VAL:N	1.94	0.82
41:DF:53:THR:HG22	41:DF:56:GLU:HG3	1.58	0.82
54:DV:19:LYS:HG2	54:DV:94:LEU:HB2	1.61	0.82
1:AA:438:G:C5'	4:AD:123:HIS:HD1	1.93	0.82
13:AM:15:VAL:HG22	13:AM:41:PRO:O	1.80	0.82
1:CA:892:A:O2'	1:CA:1415:G:H4'	1.79	0.82
1:CA:1442(B):A:C2	52:DT:118:ARG:CZ	2.63	0.82
31:D5:44:THR:HG22	31:D5:45:VAL:H	1.42	0.82
34:D8:10:ALA:CA	34:D8:13:ARG:HG2	2.09	0.82
36:DA:655:A:C4'	36:DA:656:G:H5'	2.06	0.82
36:DA:904:C:H2'	36:DA:905:U:H6	1.43	0.82
36:DA:1353:A:H4'	39:DD:38:LYS:HE3	1.61	0.82
36:DA:1503:U:H2'	36:DA:1504:C:C6	2.14	0.82
36:DA:2039:C:H2'	36:DA:2040:C:H6	1.44	0.82
36:DA:2837:G:H2'	36:DA:2838:G:H8	1.44	0.82
36:DA:2841:C:H2'	36:DA:2842:G:C8	2.14	0.82
55:DW:78:GLU:OE2	55:DW:99:ARG:HD2	1.80	0.82
1:AA:1199:U:H4'	10:AJ:54:PHE:CZ	2.15	0.82
32:B6:16:CYS:O	32:B6:17:LYS:HG2	1.80	0.82
38:BC:100:ILE:CG2	38:BC:127:LEU:HG	2.10	0.82
48:BP:84:ASN:C	48:BP:86:LYS:H	1.81	0.82
4:CD:194:LEU:HB3	4:CD:196:LEU:HD13	1.60	0.82
36:DA:795:C:H2'	36:DA:796:C:C6	2.15	0.82
36:DA:2508:G:H1	36:DA:2580:U:H3	1.27	0.82
36:DA:2762:G:H8	36:DA:2762:G:H5'	1.43	0.82
10:AJ:40:LEU:HB2	10:AJ:41:PRO:HD2	1.62	0.82
36:BA:662:G:OP1	48:BP:18:ARG:HD2	1.79	0.82
36:BA:2377:A:H2'	36:BA:2378:A:C8	2.15	0.82
39:BD:65:ILE:HD13	39:BD:65:ILE:N	1.93	0.82
43:BH:85:LYS:O	43:BH:132:ARG:HB2	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:13:HIS:CE1	50:BR:16:HIS:H	1.97	0.82
2:CB:21:ARG:CZ	2:CB:39:ILE:HG12	2.10	0.82
2:CB:42:ILE:HD11	2:CB:202:PRO:HB2	1.60	0.82
25:CZ:20:VAL:HA	25:CZ:24:LYS:HZ1	1.44	0.82
32:D6:5:VAL:CG1	36:DA:2283:C:H5'	2.10	0.82
36:DA:2476:A:H2'	36:DA:2477:C:H5''	1.61	0.82
1:AA:56:U:H2'	1:AA:57:G:C8	2.15	0.82
1:AA:337:C:H2'	1:AA:338:A:H8	1.44	0.82
1:AA:1301:U:H3'	1:AA:1302:U:C5'	2.10	0.82
36:BA:89:G:H3'	36:BA:90:U:H5''	1.60	0.82
36:BA:90:U:H1'	36:BA:92:A:C8	2.15	0.82
36:BA:1598:C:H5'	56:BX:36:LYS:CG	2.09	0.82
36:BA:2020:A:O2'	36:BA:2021:C:H5'	1.79	0.82
40:BE:82:ARG:HG3	40:BE:82:ARG:HH11	1.44	0.82
1:CA:1203:C:H2'	1:CA:1204:A:H8	1.45	0.82
4:CD:28:SER:HB3	4:CD:29:PRO:CD	2.10	0.82
32:D6:39:TYR:O	32:D6:41:PRO:HD3	1.80	0.82
36:DA:1503:U:H2'	36:DA:1504:C:H6	1.45	0.82
36:DA:1842:G:H2'	36:DA:1843:C:H6	1.42	0.82
39:DD:35:LYS:HD2	39:DD:35:LYS:C	2.00	0.82
40:DE:117:MET:SD	40:DE:136:ARG:HG2	2.19	0.82
9:AI:46:ALA:C	9:AI:47:LEU:HD12	2.00	0.82
24:AY:75:C:H6	25:AZ:231:ILE:HG23	1.43	0.82
36:BA:271(M):G:C2'	36:BA:271(N):U:H5''	2.08	0.82
36:BA:871:U:H4'	49:BQ:69:PHE:CE2	2.15	0.82
38:BC:40:THR:HA	38:BC:177:LYS:HA	1.61	0.82
49:BQ:12:GLN:HE21	49:BQ:73:PRO:HD2	1.44	0.82
57:BY:76:CYS:SG	57:BY:77:PRO:HD2	2.19	0.82
1:CA:1281:U:H5''	1:CA:1282:C:H5	1.43	0.82
11:CK:120:ARG:HH22	11:CK:126:ARG:HE	1.27	0.82
36:DA:1860:G:H1	36:DA:1882:C:H42	1.25	0.82
36:DA:2760:C:H2'	36:DA:2761:G:H5''	1.60	0.82
36:DA:2814:C:H2'	36:DA:2815:C:H6	1.43	0.82
38:DC:10:LEU:HD12	38:DC:32:LEU:HD23	1.61	0.82
4:AD:107:ARG:NH2	4:AD:194:LEU:HD12	1.94	0.82
5:AE:102:ALA:HB1	5:AE:106:PRO:CG	2.09	0.82
25:AZ:38:GLU:HG3	25:AZ:189:ARG:HH11	1.41	0.82
25:AZ:38:GLU:HG3	25:AZ:189:ARG:HH12	1.41	0.82
32:B6:27:LYS:CG	32:B6:30:THR:HB	2.09	0.82
42:BG:105:LYS:HE3	42:BG:143:GLU:OE1	1.80	0.82
54:BV:81:TYR:C	54:BV:82:ARG:HD2	1.99	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2122:U:H2'	36:DA:2123:G:H8	1.44	0.82
5:AE:76:ILE:HG12	5:AE:78:HIS:H	1.43	0.81
1:CA:1477:C:H2'	1:CA:1478:C:C6	2.15	0.81
4:CD:62:GLN:O	4:CD:66:ARG:HB2	1.80	0.81
26:D0:11:ARG:HH11	26:D0:11:ARG:CB	1.93	0.81
28:D2:27:GLU:O	28:D2:30:ARG:N	2.12	0.81
28:D2:47:ASN:ND2	36:DA:94(A):G:H21	1.76	0.81
36:DA:659:C:H2'	36:DA:660:G:H8	1.45	0.81
36:DA:1370:C:H3'	36:DA:1371:G:H8	1.45	0.81
36:DA:1612:C:H42	36:DA:1619:G:H1	1.28	0.81
36:DA:2208:A:H1'	36:DA:2219:G:N7	1.94	0.81
39:DD:35:LYS:HD2	39:DD:36:PRO:N	1.94	0.81
43:DH:153:LYS:HD3	43:DH:153:LYS:H	1.44	0.81
56:DX:44:GLU:HG3	56:DX:50:LYS:HA	1.61	0.81
57:DY:46:LYS:N	57:DY:62:GLU:HG2	1.93	0.81
1:AA:972:C:H4'	10:AJ:57:LYS:HG3	1.62	0.81
1:AA:1070:U:H2'	1:AA:1071:C:H6	1.44	0.81
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.62	0.81
16:AP:14:ASN:HA	16:AP:42:ARG:NH1	1.93	0.81
16:AP:21:VAL:HG13	16:AP:33:ILE:HB	1.62	0.81
36:BA:774:A:H2	36:BA:787:U:HO2'	1.23	0.81
36:BA:2248:C:H2'	36:BA:2249:U:H5'	1.62	0.81
41:BF:132:VAL:HG22	41:BF:133:ASN:H	1.42	0.81
1:CA:117:G:O6	1:CA:289:G:H1'	1.81	0.81
7:CG:16:LEU:CD1	9:CI:42:ARG:HA	2.10	0.81
7:CG:126:ASP:HB3	7:CG:131:LYS:O	1.80	0.81
28:D2:25:VAL:HG11	28:D2:61:LEU:HD21	1.61	0.81
36:DA:1314:C:H5'	36:DA:1314:C:H6	1.41	0.81
36:DA:2122:U:H2'	36:DA:2123:G:C8	2.15	0.81
36:DA:2302:G:H3'	36:DA:2303:G:H8	1.45	0.81
2:AB:29:ALA:O	2:AB:32:ILE:HG22	1.80	0.81
2:AB:229:VAL:HG12	2:AB:230:VAL:N	1.95	0.81
32:B6:36:LEU:HD12	32:B6:50:ARG:NH2	1.94	0.81
36:BA:145:G:H2'	36:BA:146:G:H5''	1.62	0.81
36:BA:483:A:H1'	57:BY:60:PHE:CZ	2.15	0.81
36:BA:523:C:C2'	36:BA:524:U:H5'	2.10	0.81
36:BA:626:U:C2	48:BP:105:LEU:HG	2.16	0.81
36:BA:2008:C:H2'	36:BA:2009:G:H8	1.41	0.81
36:BA:2401:U:C2'	36:BA:2402:C:H5''	2.10	0.81
40:BE:107:THR:O	40:BE:190:GLY:HA2	1.79	0.81
1:CA:376:G:H2'	1:CA:377:G:C8	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1221:G:OP1	19:CS:36:ARG:HD3	1.80	0.81
4:CD:100:ARG:NH2	4:CD:118:ARG:HH12	1.77	0.81
4:CD:190:ASP:HB3	4:CD:193:ASP:OD2	1.79	0.81
5:CE:150:ARG:NH1	5:CE:150:ARG:HB2	1.95	0.81
7:CG:84:ASN:OD1	22:CW:33:U:H5'	1.80	0.81
18:CR:45:SER:HA	18:CR:51:LEU:HD21	1.63	0.81
18:CR:66:LEU:HG	18:CR:70:ILE:HD11	1.61	0.81
20:CT:36:LEU:CD1	20:CT:59:ALA:HB2	2.10	0.81
29:D3:35:ARG:HB2	29:D3:35:ARG:HH11	1.45	0.81
32:D6:27:LYS:HG3	32:D6:30:THR:CB	2.09	0.81
36:DA:622:G:O2'	36:DA:623:G:H5'	1.79	0.81
36:DA:774:A:H2	36:DA:787:U:HO2'	1.28	0.81
36:DA:1543:C:H3'	36:DA:1544:A:C5'	2.09	0.81
36:DA:2010:G:OP1	55:DW:41:LYS:HD3	1.80	0.81
36:DA:2022:U:O2'	36:DA:2617:C:H5'	1.80	0.81
49:DQ:43:THR:HB	49:DQ:45:GLN:NE2	1.96	0.81
1:AA:770:C:O2'	1:AA:771:G:H5'	1.79	0.81
10:AJ:78:ASN:HB2	10:AJ:81:THR:HG23	1.62	0.81
36:BA:398:G:H2'	36:BA:399:G:H8	1.45	0.81
36:BA:2508:G:H1	36:BA:2580:U:H3	1.25	0.81
40:BE:69:LYS:HE2	40:BE:69:LYS:H	1.45	0.81
41:BF:51:THR:HG21	41:BF:91:GLY:HA3	1.62	0.81
43:BH:85:LYS:HZ1	43:BH:132:ARG:HA	1.43	0.81
13:CM:91:ARG:HB3	13:CM:98:VAL:HG22	1.60	0.81
24:CY:16:H2U:H61	24:CY:16:H2U:C5'	2.11	0.81
25:CZ:107:SER:OG	25:CZ:137:LYS:HD2	1.81	0.81
27:D1:17:SER:OG	27:D1:38:SER:HB2	1.80	0.81
36:DA:89:G:H3'	36:DA:90:U:H5''	1.61	0.81
36:DA:90:U:H1'	36:DA:92:A:C8	2.15	0.81
52:DT:32:TYR:O	52:DT:33:LYS:HB2	1.78	0.81
57:DY:8:LYS:HB2	57:DY:28:LYS:HZ1	1.43	0.81
1:AA:1389:C:H2'	1:AA:1390:U:O4'	1.80	0.81
44:BJ:25:UNK:HA	44:BJ:116:UNK:CB	2.11	0.81
49:BQ:110:THR:HG23	49:BQ:113:GLN:H	1.45	0.81
58:BZ:5:LEU:HB2	58:BZ:59:LEU:HD22	1.62	0.81
1:CA:254:G:H21	17:CQ:16:GLN:HE22	1.25	0.81
1:CA:627:G:H2'	1:CA:628:G:H8	1.44	0.81
41:DF:137:LYS:HA	41:DF:140:LEU:HB3	1.62	0.81
42:DG:82:LEU:HD22	42:DG:87:PRO:HG3	1.61	0.81
43:DH:52:VAL:HG21	43:DH:69:ARG:HB2	1.60	0.81
47:DO:2:ILE:CD1	47:DO:82:ASN:HD22	1.92	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:8:ARG:HA	55:DW:102:HIS:CB	2.10	0.81
58:DZ:17:ALA:HA	58:DZ:20:ARG:HD3	1.62	0.81
1:AA:295:C:H2'	1:AA:296:U:H6	1.42	0.81
1:AA:1372:U:H5''	9:AI:71:SER:HB3	1.62	0.81
28:B2:25:VAL:HG11	28:B2:61:LEU:HD21	1.62	0.81
31:B5:44:THR:HG21	50:BR:101:ALA:HB2	1.63	0.81
31:B5:48:GLU:O	31:B5:49:CYS:SG	2.39	0.81
34:B8:23:VAL:CG1	34:B8:46:ARG:HB3	2.10	0.81
34:B8:30:ARG:NE	34:B8:30:ARG:HA	1.96	0.81
36:BA:1314:C:H5'	36:BA:1314:C:H6	1.44	0.81
38:BC:94:VAL:HG12	38:BC:95:GLY:N	1.95	0.81
50:BR:99:LYS:HD2	50:BR:99:LYS:N	1.95	0.81
2:CB:69:LEU:HD12	2:CB:71:VAL:HG23	1.63	0.81
34:D8:23:VAL:CG1	34:D8:46:ARG:HB3	2.10	0.81
36:DA:2248:C:H2'	36:DA:2249:U:H5'	1.61	0.81
39:DD:34:VAL:HG23	39:DD:35:LYS:H	1.44	0.81
4:AD:190:ASP:HB3	4:AD:193:ASP:OD2	1.81	0.81
9:AI:104:ARG:HG2	9:AI:105:ASP:H	1.46	0.81
32:B6:27:LYS:HG3	32:B6:30:THR:CB	2.09	0.81
36:BA:537:C:N4	36:BA:556:G:H1	1.79	0.81
1:CA:405:U:H3'	1:CA:406:G:H5'	1.59	0.81
1:CA:1282:C:H2'	1:CA:1283:G:C8	2.15	0.81
8:CH:64:LYS:HD2	8:CH:79:VAL:HG21	1.60	0.81
24:CY:54:5MU:H2'	24:CY:55:PSU:H5'	1.62	0.81
32:D6:16:CYS:SG	32:D6:48:VAL:HG22	2.19	0.81
36:DA:676:A:H8	36:DA:2443:C:H1'	1.46	0.81
41:DF:39:TRP:CH2	41:DF:106:ARG:HD2	2.15	0.81
42:DG:29:TRP:CE3	42:DG:29:TRP:HA	2.16	0.81
46:DN:83:LYS:HG2	46:DN:84:LYS:N	1.96	0.81
54:DV:15:GLU:HB3	54:DV:16:PRO:HD2	1.62	0.81
58:DZ:52:SER:O	58:DZ:53:ILE:HG23	1.81	0.81
1:AA:1225:A:H2'	1:AA:1226:C:C5	2.16	0.81
4:AD:79:PHE:HA	4:AD:93:PHE:CD2	2.16	0.81
14:AN:57:ARG:HB3	14:AN:57:ARG:NH1	1.95	0.81
20:AT:50:GLU:HG3	20:AT:100:ILE:HG12	1.61	0.81
29:B3:56:VAL:HG12	29:B3:57:GLU:H	1.45	0.81
36:BA:1190:G:H5'	48:BP:35:HIS:N	1.94	0.81
36:BA:2025:C:H2'	36:BA:2026:C:H6	1.43	0.81
36:BA:2328:A:H2'	36:BA:2329:G:C8	2.16	0.81
36:BA:2846:G:OP2	52:BT:54:ARG:HD2	1.81	0.81
49:BQ:140:ALA:HB1	58:BZ:99:TYR:CB	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.46	0.81
7:CG:113:GLU:HB2	7:CG:119:ARG:HG2	1.61	0.81
18:CR:58:LEU:HD22	18:CR:62:GLU:HB3	1.61	0.81
20:CT:50:GLU:HG3	20:CT:100:ILE:HG12	1.61	0.81
31:D5:31:VAL:HG11	36:DA:2886:G:H21	1.45	0.81
36:DA:633:A:H5''	48:DP:77:ARG:HH12	1.46	0.81
36:DA:1259:G:O2'	36:DA:1260:G:H5'	1.81	0.81
36:DA:1353:A:H2'	36:DA:1354:A:C8	2.15	0.81
38:DC:100:ILE:CG2	38:DC:127:LEU:HG	2.11	0.81
41:DF:51:THR:HG21	41:DF:91:GLY:HA3	1.62	0.81
47:DO:23:ARG:HG3	47:DO:24:VAL:N	1.96	0.81
48:DP:105:LEU:O	48:DP:106:LEU:HB2	1.80	0.81
51:DS:94:TYR:O	51:DS:95:HIS:HB3	1.78	0.81
4:AD:100:ARG:HE	4:AD:118:ARG:HH22	1.27	0.81
5:AE:47:LYS:HD3	5:AE:47:LYS:N	1.96	0.81
36:BA:1599:C:H2'	36:BA:1600:C:H6	1.45	0.81
36:BA:2206:G:N2	36:BA:2207:G:H4'	1.96	0.81
36:BA:2358:G:N2	36:BA:2359:C:H1'	1.94	0.81
54:BV:29:PRO:HA	54:BV:61:VAL:CG2	2.11	0.81
55:BW:8:ARG:HA	55:BW:102:HIS:CB	2.09	0.81
1:CA:344:A:H4'	1:CA:345:C:OP2	1.79	0.81
9:CI:43:ALA:HB2	9:CI:74:ILE:HD13	1.62	0.81
22:CW:68:C:H2'	22:CW:69:G:C8	2.14	0.81
36:DA:122:G:H1	36:DA:129:C:H42	1.28	0.81
36:DA:151:C:H2'	36:DA:152:G:C8	2.16	0.81
36:DA:1290:C:H2'	36:DA:1291:C:H6	1.45	0.81
58:DZ:96:VAL:HG22	58:DZ:97:GLU:H	1.46	0.81
1:AA:737:A:H2'	1:AA:738:C:H6	1.45	0.81
36:BA:802:A:H2'	36:BA:803:U:C6	2.16	0.81
36:BA:996:A:H5'	53:BU:94:ASN:HB2	1.62	0.81
36:BA:2672:G:C2'	36:BA:2673:G:H5''	2.11	0.81
41:BF:137:LYS:HG2	41:BF:140:LEU:HD23	1.63	0.81
1:CA:63:C:H42	1:CA:104:G:H1	1.28	0.81
1:CA:831:U:H2'	1:CA:832:C:C5	2.15	0.81
13:CM:37:THR:O	13:CM:39:ILE:HG13	1.81	0.81
24:CY:41:G:C2'	24:CY:42:U:H5''	2.08	0.81
28:D2:3:LEU:HD12	36:DA:98:G:C5'	2.11	0.81
36:DA:863:A:H2'	36:DA:864:G:C8	2.15	0.81
36:DA:2110:G:H22	36:DA:2178:C:H41	1.28	0.81
41:DF:82:ILE:O	41:DF:83:PHE:CB	2.29	0.81
53:DU:95:LEU:HD12	54:DV:11:GLN:HE21	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:85:HIS:CD2	58:DZ:86:VAL:H	1.99	0.81
58:DZ:102:LEU:HD11	58:DZ:124:ILE:CG2	2.10	0.81
1:AA:985:C:H2'	1:AA:986:A:C8	2.16	0.80
4:AD:98:GLU:HG2	4:AD:189:PRO:HG3	1.60	0.80
6:AF:84:ASN:N	6:AF:84:ASN:HD22	1.76	0.80
13:AM:14:ARG:HG3	13:AM:44:ARG:NH1	1.94	0.80
36:BA:654(N):G:H2'	36:BA:654(O):G:O4'	1.81	0.80
36:BA:827:U:H2'	36:BA:2068:U:O2	1.81	0.80
36:BA:926:A:H8	36:BA:926:A:H5'	1.46	0.80
36:BA:2801(A):A:H4'	36:BA:2802:G:H5'	1.63	0.80
39:BD:35:LYS:HD2	39:BD:36:PRO:N	1.96	0.80
41:BF:101:LEU:HD12	41:BF:102:PRO:HD2	1.62	0.80
1:CA:744:C:H2'	1:CA:745:C:C6	2.15	0.80
29:D3:56:VAL:HG12	29:D3:57:GLU:H	1.45	0.80
36:DA:733:G:H8	36:DA:733:G:O5'	1.64	0.80
36:DA:1916:A:H2'	36:DA:1917:U:O4'	1.80	0.80
36:DA:2498:C:O2'	36:DA:2499:C:H5'	1.80	0.80
40:DE:132:HIS:HA	40:DE:135:HIS:CE1	2.16	0.80
42:DG:142:PRO:HG2	42:DG:143:GLU:HG2	1.60	0.80
47:DO:107:ARG:NH1	52:DT:35:LYS:HD2	1.96	0.80
49:DQ:44:ALA:HA	49:DQ:47:ILE:HD12	1.61	0.80
56:DX:60:ARG:HG3	56:DX:75:ASP:OD2	1.80	0.80
58:DZ:102:LEU:HD11	58:DZ:124:ILE:HG23	1.61	0.80
1:AA:173:U:H5'	1:AA:197:A:O4'	1.80	0.80
1:AA:1002:G:H2'	1:AA:1003:G:H8	1.43	0.80
5:AE:147:ASP:HA	5:AE:150:ARG:NH1	1.97	0.80
19:AS:6:LYS:HG2	19:AS:7:LYS:HE3	1.62	0.80
19:AS:62:ILE:HD12	19:AS:66:MET:HE2	1.63	0.80
25:AZ:38:GLU:CG	25:AZ:189:ARG:HH11	1.92	0.80
42:BG:85:GLY:O	42:BG:87:PRO:HD3	1.80	0.80
52:BT:50:ILE:HA	52:BT:99:LEU:HD11	1.62	0.80
1:CA:389:A:H2'	1:CA:390:C:H5'	1.62	0.80
7:CG:64:GLN:HE21	7:CG:68:ASN:ND2	1.79	0.80
9:CI:10:ARG:HB2	9:CI:76:ALA:HB2	1.61	0.80
9:CI:46:ALA:C	9:CI:47:LEU:HD12	2.01	0.80
23:CX:23:C:H2'	23:CX:24:C:C6	2.16	0.80
35:D9:1:MET:SD	36:DA:2477:C:H2'	2.21	0.80
36:DA:298:G:N2	36:DA:339:U:H5	1.79	0.80
36:DA:654(N):G:H2'	36:DA:654(O):G:O4'	1.82	0.80
42:DG:5:VAL:HG12	42:DG:6:ALA:N	1.96	0.80
36:BA:1259:G:O2'	36:BA:1260:G:H5'	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BB:80:U:H2'	37:BB:81:G:N2	1.96	0.80
41:BF:39:TRP:CH2	41:BF:106:ARG:HD2	2.16	0.80
47:BO:87:ILE:HG22	47:BO:88:ASN:O	1.81	0.80
1:CA:1500:A:H5''	1:CA:1508:G:H5''	1.63	0.80
16:CP:27:LYS:HG2	16:CP:30:GLY:HA3	1.60	0.80
17:CQ:5:VAL:HG13	17:CQ:59:ILE:O	1.82	0.80
25:CZ:271:GLU:HG2	25:CZ:276:THR:HA	1.63	0.80
36:DA:106:C:H2'	36:DA:107:C:H6	1.47	0.80
36:DA:523:C:C2'	36:DA:524:U:H5'	2.11	0.80
36:DA:626:U:C2	48:DP:105:LEU:HG	2.16	0.80
36:DA:769:G:O2'	36:DA:770:G:H5'	1.81	0.80
46:DN:111:PRO:HG3	46:DN:114:ARG:HH22	1.46	0.80
47:DO:87:ILE:HG22	47:DO:88:ASN:O	1.80	0.80
50:DR:84:ALA:HB3	50:DR:85:PRO:HD3	1.63	0.80
51:DS:35:ILE:HD11	51:DS:99:LYS:HE3	1.63	0.80
57:DY:81:LYS:HD3	57:DY:97:ARG:O	1.80	0.80
1:AA:78:G:H22	1:AA:91:C:N4	1.79	0.80
1:AA:389:A:H2'	1:AA:390:C:H5'	1.61	0.80
1:AA:820:U:H4'	1:AA:821:G:OP2	1.82	0.80
1:AA:1432:G:OP1	52:BT:107:ASP:HB2	1.81	0.80
30:B4:10:VAL:HG23	30:B4:11:PRO:HD2	1.63	0.80
36:BA:819:A:H2'	36:BA:820:A:H5'	1.63	0.80
36:BA:2246:G:H2'	36:BA:2247:A:C8	2.16	0.80
36:BA:2762:G:H8	36:BA:2762:G:H5'	1.43	0.80
36:BA:2840:C:H5''	50:BR:53:HIS:HD2	1.38	0.80
37:BB:20:C:C2'	37:BB:21:G:H5''	2.11	0.80
38:BC:100:ILE:HG21	38:BC:126:LYS:CB	2.11	0.80
38:BC:214:VAL:HG23	38:BC:224:ILE:HD13	1.64	0.80
39:BD:177:LEU:O	39:BD:179:SER:N	2.14	0.80
53:BU:52:ARG:CZ	53:BU:55:ARG:HH22	1.94	0.80
54:BV:24:LYS:HA	54:BV:92:THR:HG23	1.63	0.80
57:BY:39:VAL:HG12	57:BY:40:GLU:H	1.47	0.80
1:CA:18:C:H5''	5:CE:127:ASN:ND2	1.96	0.80
32:D6:11:LEU:HD13	32:D6:12:GLU:N	1.97	0.80
36:DA:1005:C:H2'	36:DA:1006:C:C6	2.17	0.80
37:DB:91:C:H5'	49:DQ:17:LEU:O	1.81	0.80
38:DC:147:PHE:C	38:DC:149:ILE:H	1.80	0.80
40:DE:38:THR:HB	40:DE:41:LYS:HG2	1.62	0.80
1:AA:1041:A:H2'	1:AA:1042:G:C8	2.17	0.80
7:AG:16:LEU:CD1	9:AI:42:ARG:HA	2.12	0.80
18:AR:66:LEU:HG	18:AR:70:ILE:HD11	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:16:H2U:H61	24:AY:16:H2U:C5'	2.11	0.80
27:B1:11:ARG:NH1	27:B1:11:ARG:HB3	1.96	0.80
36:BA:634:C:H2'	36:BA:635:C:H6	1.45	0.80
42:BG:71:THR:HB	42:BG:89:GLY:O	1.82	0.80
42:BG:131:TYR:HE2	42:BG:133:LEU:HB3	1.46	0.80
43:BH:148:ILE:O	43:BH:162:ILE:HD13	1.82	0.80
57:BY:81:LYS:HZ3	57:BY:99:CYS:HB2	1.46	0.80
1:CA:337:C:H2'	1:CA:338:A:H8	1.46	0.80
1:CA:807:A:H2'	1:CA:808:C:H6	1.46	0.80
24:CY:75:C:C5	25:CZ:231:ILE:HA	2.17	0.80
36:DA:1047:G:N2	36:DA:1110:G:H2'	1.95	0.80
36:DA:1754:C:H5''	52:DT:113:LYS:HZ3	1.46	0.80
40:DE:69:LYS:H	40:DE:69:LYS:HE2	1.47	0.80
58:DZ:51:ALA:O	58:DZ:53:ILE:N	2.14	0.80
2:AB:87:ARG:HD2	2:AB:87:ARG:O	1.82	0.80
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.46	0.80
25:AZ:171:ILE:HG13	25:AZ:201:GLU:HB3	1.64	0.80
25:AZ:234:ARG:HB3	25:AZ:289:LEU:HD13	1.62	0.80
36:BA:594:U:H2'	36:BA:595:C:C6	2.17	0.80
54:BV:5:VAL:HG23	54:BV:37:VAL:O	1.82	0.80
28:D2:69:ARG:CZ	36:DA:111:A:H4'	2.11	0.80
36:DA:1297:C:H2'	36:DA:1298:C:H6	1.47	0.80
36:DA:1803:A:O3'	39:DD:259:THR:HG21	1.82	0.80
36:DA:2506:U:H5'	36:DA:2506:U:H6	1.43	0.80
39:DD:177:LEU:O	39:DD:179:SER:N	2.15	0.80
41:DF:64:ILE:HG23	41:DF:65:TRP:N	1.95	0.80
42:DG:112:PRO:HG2	42:DG:113:ARG:H	1.45	0.80
1:AA:346:G:H5'	52:BT:41:ARG:HH21	1.46	0.80
1:AA:1305:G:H22	1:AA:1331:G:H2'	1.46	0.80
4:AD:4:TYR:O	4:AD:5:ILE:HB	1.81	0.80
8:AH:29:SER:HB3	8:AH:32:LYS:HB2	1.63	0.80
11:AK:124:LYS:HZ2	11:AK:124:LYS:HB2	1.47	0.80
24:AY:54:5MU:H2'	24:AY:55:PSU:H5'	1.64	0.80
36:BA:560:C:H1'	53:BU:49:HIS:HE1	1.46	0.80
36:BA:795:C:H2'	36:BA:796:C:C6	2.16	0.80
1:CA:1512:U:H2'	1:CA:1513:A:H8	1.44	0.80
22:CV:63:G:H2'	22:CV:64:A:C8	2.16	0.80
25:CZ:256:VAL:HG13	25:CZ:262:THR:HG22	1.64	0.80
34:D8:15:LYS:CD	48:DP:65:ARG:HH22	1.94	0.80
38:DC:119:VAL:O	38:DC:123:VAL:HB	1.82	0.80
42:DG:48:GLU:HG3	42:DG:81:LYS:HE3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:21:LYS:HD3	46:DN:22:THR:H	1.45	0.80
57:DY:37:VAL:HG23	57:DY:38:ILE:N	1.96	0.80
1:AA:150:C:C2'	1:AA:151:A:H5''	2.12	0.80
10:AJ:16:LEU:CD1	10:AJ:70:ARG:HG3	2.10	0.80
32:B6:16:CYS:SG	32:B6:48:VAL:HG22	2.21	0.80
36:BA:234:C:H2'	36:BA:235:U:C6	2.16	0.80
36:BA:1374:G:H2'	36:BA:1375:C:C6	2.16	0.80
36:BA:1820:U:O2'	39:BD:159:ALA:HB3	1.82	0.80
36:BA:2222:G:H2'	36:BA:2223:G:H8	1.44	0.80
36:BA:2377:A:H2'	36:BA:2378:A:H8	1.46	0.80
38:BC:99:ILE:HG23	38:BC:102:LYS:NZ	1.97	0.80
39:BD:91:ARG:HH11	39:BD:91:ARG:HG2	1.45	0.80
40:BE:195:LEU:HD12	40:BE:196:VAL:N	1.96	0.80
2:CB:44:LEU:HD12	2:CB:44:LEU:H	1.47	0.80
13:CM:49:THR:HB	13:CM:52:GLU:HG3	1.64	0.80
26:D0:23:VAL:HA	26:D0:38:VAL:HG22	1.63	0.80
31:D5:44:THR:HG21	50:DR:101:ALA:HB2	1.62	0.80
32:D6:16:CYS:O	32:D6:17:LYS:HG2	1.81	0.80
32:D6:52:VAL:HG13	32:D6:53:LYS:H	1.46	0.80
36:DA:768:G:H2'	36:DA:769:G:H8	1.46	0.80
36:DA:884:C:H42	36:DA:893:C:H42	1.26	0.80
36:DA:926:A:H8	36:DA:926:A:H5'	1.46	0.80
36:DA:2590:A:H5''	39:DD:239:ARG:HB2	1.63	0.80
48:DP:84:ASN:C	48:DP:86:LYS:H	1.84	0.80
53:DU:37:GLU:HA	53:DU:40:PHE:CD1	2.17	0.80
58:DZ:33:LEU:HD12	58:DZ:34:ASN:H	1.43	0.80
1:AA:580:U:H2'	1:AA:581:G:O4'	1.81	0.80
1:AA:1529:G:H4'	1:AA:1530:G:OP2	1.79	0.80
36:BA:1785:A:OP2	36:BA:1982:C:H5'	1.81	0.80
39:BD:28:GLU:H	39:BD:29:PRO:HD2	1.46	0.80
39:BD:30:GLU:HB2	39:BD:35:LYS:HE3	1.64	0.80
39:BD:43:ARG:HD2	39:BD:44:ASN:OD1	1.81	0.80
40:BE:80:GLU:O	40:BE:81:ILE:HG12	1.81	0.80
41:BF:53:THR:HG22	41:BF:56:GLU:HG3	1.62	0.80
42:BG:97:ASP:H	42:BG:100:TRP:HD1	1.30	0.80
48:BP:9:ASN:N	48:BP:10:PRO:HD2	1.96	0.80
48:BP:146:VAL:HG22	48:BP:147:LEU:N	1.93	0.80
58:BZ:96:VAL:HG22	58:BZ:97:GLU:N	1.95	0.80
1:CA:1225:A:H2'	1:CA:1226:C:C5	2.17	0.80
1:CA:1372:U:H5''	9:CI:71:SER:HB3	1.64	0.80
10:CJ:40:LEU:HB2	10:CJ:41:PRO:HD2	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:57:ARG:HB3	14:CN:57:ARG:NH1	1.97	0.80
36:DA:271(M):G:C2'	36:DA:271(N):U:H5''	2.09	0.80
36:DA:819:A:H2'	36:DA:820:A:H5'	1.64	0.80
43:DH:103:LEU:HB2	43:DH:123:PHE:HD2	1.47	0.80
49:DQ:22:LYS:H	58:DZ:78:LYS:HE3	1.45	0.80
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.16	0.80
11:AK:57:THR:OG1	11:AK:58:PRO:HD2	1.81	0.80
24:AY:2:C:OP1	25:AZ:90:LYS:HD2	1.81	0.80
24:AY:41:G:C2'	24:AY:42:U:H5''	2.07	0.80
28:B2:2:LYS:HA	28:B2:5:GLU:OE2	1.82	0.80
32:B6:5:VAL:HG11	36:BA:2283:C:C5'	2.12	0.80
36:BA:227:A:C5'	48:BP:76:LYS:HE3	2.12	0.80
55:BW:5:ALA:CB	55:BW:54:ALA:HB2	2.12	0.80
1:CA:985:C:H2'	1:CA:986:A:C8	2.17	0.80
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.17	0.80
2:CB:87:ARG:HD2	2:CB:87:ARG:O	1.81	0.80
2:CB:229:VAL:HG12	2:CB:230:VAL:N	1.95	0.80
11:CK:120:ARG:HH12	11:CK:126:ARG:HD2	1.46	0.80
36:DA:374:A:H2'	36:DA:375:C:O4'	1.82	0.80
36:DA:1682:G:H5'	36:DA:1762:A:O2'	1.81	0.80
36:DA:1993:U:H4'	40:DE:128:SER:OG	1.82	0.80
36:DA:2206:G:N2	36:DA:2207:G:H4'	1.97	0.80
36:DA:2402:C:C2'	36:DA:2403:C:H5'	2.12	0.80
36:DA:2672:G:C2'	36:DA:2673:G:H5''	2.11	0.80
39:DD:139:GLY:H	39:DD:165:ILE:HB	1.46	0.80
41:DF:137:LYS:HG2	41:DF:140:LEU:HD23	1.64	0.80
51:DS:46:VAL:HG12	51:DS:47:THR:H	1.46	0.80
2:AB:21:ARG:CZ	2:AB:39:ILE:HG12	2.11	0.79
28:B2:5:GLU:HB2	28:B2:9:GLN:NE2	1.96	0.79
31:B5:38:ALA:CB	31:B5:48:GLU:HB3	2.12	0.79
36:BA:1498:C:H2'	36:BA:1499:C:H5''	1.63	0.79
40:BE:33:VAL:HG21	40:BE:36:ARG:NH2	1.97	0.79
41:BF:53:THR:HG23	41:BF:55:GLY:H	1.45	0.79
50:BR:96:ARG:NH1	50:BR:117:VAL:HG23	1.98	0.79
1:CA:1440:C:H1'	1:CA:1462:G:H22	1.46	0.79
12:CL:89:ARG:NH1	12:CL:91:LYS:HD3	1.96	0.79
19:CS:62:ILE:HD12	19:CS:66:MET:HE2	1.65	0.79
24:CY:11:C:C2'	24:CY:12:U:H5''	2.13	0.79
25:CZ:191:GLY:HA2	25:CZ:196:VAL:HG12	1.62	0.79
25:CZ:234:ARG:HB3	25:CZ:289:LEU:HD13	1.61	0.79
36:DA:271(P):C:C2'	36:DA:271(Q):G:H5'	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:307:G:N2	36:DA:309:G:H3'	1.97	0.79
36:DA:1010:A:H1'	36:DA:1153:C:H1'	1.62	0.79
36:DA:1828:G:O6	39:DD:222:ARG:HD3	1.82	0.79
39:DD:35:LYS:HZ2	39:DD:36:PRO:HD3	1.47	0.79
48:DP:146:VAL:HG22	48:DP:147:LEU:N	1.95	0.79
52:DT:53:ARG:NH1	52:DT:53:ARG:HB3	1.96	0.79
36:BA:560:C:H1'	53:BU:49:HIS:CE1	2.18	0.79
36:BA:833:U:H5''	48:BP:48:PRO:CB	2.11	0.79
46:BN:21:LYS:HD3	46:BN:22:THR:H	1.46	0.79
52:BT:53:ARG:HB3	52:BT:53:ARG:HH11	1.46	0.79
1:CA:56:U:H2'	1:CA:57:G:C8	2.18	0.79
1:CA:1389:C:H2'	1:CA:1390:U:O4'	1.81	0.79
1:CA:1438:G:H2'	1:CA:1439:C:C6	2.17	0.79
36:DA:38:A:H2'	36:DA:39:C:C6	2.18	0.79
36:DA:483:A:H1'	57:DY:60:PHE:CZ	2.16	0.79
36:DA:2303:G:H5''	42:DG:126:ASP:HB2	1.62	0.79
36:DA:2807:G:C3'	36:DA:2808:U:H5''	2.10	0.79
44:DJ:25:UNK:HA	44:DJ:116:UNK:CB	2.11	0.79
56:DX:27:THR:HG22	56:DX:80:ILE:HG22	1.64	0.79
58:DZ:115:GLY:HA2	58:DZ:174:VAL:HG13	1.64	0.79
2:AB:107:THR:HG23	2:AB:110:GLN:HE22	1.45	0.79
3:AC:30:ARG:HG3	14:AN:37:PHE:O	1.83	0.79
4:AD:57:ARG:HB3	4:AD:206:PHE:HB2	1.64	0.79
22:AW:68:C:H2'	22:AW:69:G:C8	2.18	0.79
25:AZ:25:THR:HB	62:AZ:501:GDP:O2B	1.82	0.79
29:B3:35:ARG:HB2	29:B3:35:ARG:HH11	1.46	0.79
32:B6:5:VAL:HB	36:BA:2284:C:OP2	1.82	0.79
36:BA:374:A:H2'	36:BA:375:C:O4'	1.82	0.79
36:BA:769:G:O2'	36:BA:770:G:H5'	1.82	0.79
36:BA:1005:C:H2'	36:BA:1006:C:C6	2.16	0.79
36:BA:2590:A:H5''	39:BD:239:ARG:HB2	1.63	0.79
52:BT:28:VAL:HG22	52:BT:47:GLY:N	1.97	0.79
52:BT:88:ILE:HG22	52:BT:89:VAL:HG23	1.63	0.79
52:BT:107:ASP:CG	52:BT:108:ARG:H	1.83	0.79
1:CA:1199:U:H4'	10:CJ:54:PHE:CZ	2.17	0.79
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.64	0.79
28:D2:63:VAL:O	28:D2:66:GLU:HG2	1.82	0.79
36:DA:1374:G:H2'	36:DA:1375:C:C6	2.17	0.79
42:DG:6:ALA:HB3	42:DG:104:GLU:OE2	1.82	0.79
42:DG:52:ILE:HG12	42:DG:53:LEU:H	1.47	0.79
50:DR:63:ARG:HG2	50:DR:80:PHE:HE2	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:76:CYS:SG	57:DY:77:PRO:HD2	2.23	0.79
1:AA:737:A:H2'	1:AA:738:C:C6	2.18	0.79
1:AA:1249:C:H5''	9:AI:70:LYS:NZ	1.96	0.79
5:AE:105:VAL:H	5:AE:106:PRO:HD2	1.46	0.79
24:AY:11:C:C2'	24:AY:12:U:H5''	2.12	0.79
34:B8:15:LYS:CD	48:BP:65:ARG:HH22	1.95	0.79
36:BA:2022:U:O2'	36:BA:2617:C:H5'	1.82	0.79
36:BA:2591:C:H2'	36:BA:2592:G:H8	1.47	0.79
39:BD:79:VAL:HG23	39:BD:115:GLN:O	1.83	0.79
42:BG:32:PRO:C	42:BG:33:ARG:HG3	2.03	0.79
54:BV:69:LYS:HB2	54:BV:88:ARG:HD3	1.64	0.79
56:BX:59:VAL:HG21	56:BX:78:LYS:HD3	1.65	0.79
33:D7:21:ARG:HH11	33:D7:21:ARG:HG2	1.48	0.79
36:DA:482:A:H4'	57:DY:47:LYS:HD3	1.65	0.79
36:DA:1411:C:H2'	36:DA:1412:A:H8	1.47	0.79
36:DA:2379:G:H2'	36:DA:2380:C:C6	2.15	0.79
36:DA:2781:A:C5'	36:DA:2782:G:H5'	2.13	0.79
48:DP:47:ASP:HB3	48:DP:49:ARG:H	1.48	0.79
1:AA:797:C:OP1	11:AK:124:LYS:HE3	1.81	0.79
1:AA:1249:C:H5'	1:AA:1249:C:H6	1.47	0.79
9:AI:10:ARG:HG3	9:AI:75:ASP:HB3	1.64	0.79
16:AP:27:LYS:HG2	16:AP:30:GLY:HA3	1.64	0.79
24:AY:18:G:H3'	24:AY:18:G:OP1	1.83	0.79
43:BH:103:LEU:HB2	43:BH:123:PHE:HD2	1.46	0.79
52:BT:58:ASN:H	52:BT:58:ASN:HD22	1.31	0.79
24:CY:14:A:H2'	24:CY:15:G:O4'	1.82	0.79
24:CY:18:G:H3'	24:CY:18:G:OP1	1.83	0.79
25:CZ:145:GLU:C	25:CZ:149:LEU:HB3	2.03	0.79
36:DA:534:U:O2'	53:DU:49:HIS:HD2	1.65	0.79
36:DA:1598:C:H5'	56:DX:36:LYS:CG	2.12	0.79
36:DA:2801(A):A:H4'	36:DA:2802:G:H5'	1.65	0.79
52:DT:62:THR:HG22	52:DT:75:ILE:HG23	1.64	0.79
1:AA:838:G:C6	1:AA:840:C:H1'	2.18	0.79
2:AB:87:ARG:HH21	2:AB:233:SER:N	1.81	0.79
6:AF:24:GLU:CD	6:AF:28:ARG:HH12	1.86	0.79
10:AJ:16:LEU:HD13	10:AJ:17:ASP:N	1.97	0.79
22:AW:38:A:H3'	22:AW:39:U:H5''	1.63	0.79
26:B0:27:GLU:HA	26:B0:67:VAL:O	1.82	0.79
36:BA:1141:U:H2'	46:BN:63:THR:CG2	2.13	0.79
36:BA:1411:C:H2'	36:BA:1412:A:H8	1.48	0.79
36:BA:1842:G:H2'	36:BA:1843:C:H6	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2219:G:O2'	36:BA:2220:G:H5'	1.82	0.79
38:BC:119:VAL:O	38:BC:123:VAL:HB	1.81	0.79
49:BQ:141:GLN:HE22	58:BZ:72:ARG:HD3	1.46	0.79
1:CA:737:A:H2'	1:CA:738:C:H6	1.47	0.79
25:CZ:15:GLY:HA2	25:CZ:79:HIS:CD2	2.18	0.79
25:CZ:317:GLU:HG3	25:CZ:404:LEU:HD21	1.65	0.79
32:D6:48:VAL:HG23	32:D6:49:HIS:H	1.44	0.79
36:DA:634:C:H2'	36:DA:635:C:H6	1.47	0.79
36:DA:2328:A:H2'	36:DA:2329:G:C8	2.16	0.79
39:DD:65:ILE:HD13	39:DD:65:ILE:N	1.95	0.79
10:AJ:34:VAL:HG13	10:AJ:73:ASP:O	1.83	0.79
25:AZ:215:ARG:HB3	25:AZ:282:ALA:HB3	1.63	0.79
36:BA:38:A:H2'	36:BA:39:C:C6	2.18	0.79
36:BA:1773:A:H2'	36:BA:1774:C:O4'	1.82	0.79
36:BA:1916:A:H2'	36:BA:1917:U:O4'	1.82	0.79
1:CA:390:C:H4'	16:CP:28:ARG:HH11	1.48	0.79
1:CA:986:A:H1'	19:CS:54:GLY:O	1.82	0.79
11:CK:59:TYR:O	11:CK:62:GLN:HB3	1.83	0.79
36:DA:977:G:H2'	36:DA:978:G:H8	1.47	0.79
36:DA:2443:C:O2'	36:DA:2444:G:H5'	1.83	0.79
39:DD:181:GLU:HA	39:DD:272:ALA:O	1.83	0.79
40:DE:82:ARG:HG3	40:DE:82:ARG:HH11	1.47	0.79
1:AA:1359:C:OP2	14:AN:22:THR:HG21	1.82	0.79
3:AC:92:ALA:N	3:AC:99:VAL:HG11	1.98	0.79
31:B5:4:HIS:CB	31:B5:5:PRO:HD3	2.09	0.79
36:BA:298:G:N2	36:BA:339:U:H5	1.80	0.79
36:BA:1309:G:H1	36:BA:1605:C:H42	1.28	0.79
49:BQ:19:GLY:HA2	58:BZ:79:ARG:HH22	1.45	0.79
1:CA:267:C:H2'	1:CA:268:C:H6	1.47	0.79
1:CA:1401:G:H8	1:CA:1401:G:O5'	1.66	0.79
2:CB:90:MET:HE2	2:CB:90:MET:HA	1.65	0.79
10:CJ:16:LEU:CD1	10:CJ:70:ARG:HG3	2.11	0.79
36:DA:491:G:O2'	36:DA:492:A:H5'	1.83	0.79
54:DV:24:LYS:HA	54:DV:92:THR:HG23	1.65	0.79
1:AA:344:A:H4'	1:AA:345:C:OP2	1.83	0.79
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.18	0.79
1:AA:1437:C:H2'	1:AA:1438:G:C8	2.18	0.79
2:AB:36:ARG:H	2:AB:41:ILE:HD13	1.45	0.79
31:B5:49:CYS:SG	31:B5:50:GLY:N	2.56	0.79
36:BA:1061:U:H4'	36:BA:1070:A:H4'	1.64	0.79
43:BH:52:VAL:HG21	43:BH:69:ARG:HB2	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:2:ARG:O	50:BR:2:ARG:HD2	1.83	0.79
58:BZ:55:HIS:ND1	58:BZ:135:GLU:HG2	1.98	0.79
8:CH:30:ARG:HB3	8:CH:30:ARG:HH11	1.46	0.79
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	1.83	0.79
25:CZ:137:LYS:HA	62:CZ:501:GDP:HN1	1.46	0.79
36:DA:572:A:H61	36:DA:2029:G:H21	1.29	0.79
36:DA:1309:G:H1	36:DA:1605:C:H42	1.29	0.79
36:DA:2008:C:H2'	36:DA:2009:G:C8	2.17	0.79
57:DY:39:VAL:HG12	57:DY:40:GLU:H	1.46	0.79
7:AG:79:ARG:HG3	7:AG:83:ALA:C	2.03	0.79
26:B0:11:ARG:HH11	26:B0:11:ARG:CB	1.95	0.79
32:B6:52:VAL:HG13	32:B6:53:LYS:H	1.46	0.79
36:BA:1494:A:H2'	36:BA:1495:A:C5'	2.13	0.79
5:CE:147:ASP:HA	5:CE:150:ARG:NH1	1.97	0.79
18:CR:47:THR:HG21	18:CR:49:LYS:HZ1	1.48	0.79
29:D3:7:LYS:O	29:D3:54:VAL:HA	1.83	0.79
29:D3:18:ASP:HB2	36:DA:850:C:H4'	1.65	0.79
40:DE:33:VAL:HG21	40:DE:36:ARG:NH2	1.98	0.79
40:DE:78:LEU:HD12	40:DE:78:LEU:O	1.83	0.79
52:DT:83:ILE:HG13	52:DT:84:GLN:N	1.97	0.79
57:DY:86:ARG:HB3	57:DY:88:LYS:NZ	1.97	0.79
1:AA:811:C:H4'	1:AA:900:A:N6	1.98	0.78
1:AA:1221:G:OP1	19:AS:36:ARG:HD3	1.83	0.78
26:B0:7:LEU:HD13	49:BQ:85:LYS:HG3	1.65	0.78
31:B5:7:PRO:HA	36:BA:2615:U:C2	2.18	0.78
32:B6:20:ASN:ND2	32:B6:41:PRO:HB3	1.98	0.78
36:BA:655:A:H4'	36:BA:656:G:C5'	2.06	0.78
36:BA:2175:C:H5'	38:BC:219:GLY:O	1.83	0.78
51:BS:35:ILE:HD11	51:BS:99:LYS:HE3	1.65	0.78
58:BZ:27:VAL:HG23	58:BZ:36:LYS:HA	1.66	0.78
6:CF:24:GLU:CD	6:CF:28:ARG:HH12	1.86	0.78
31:D5:36:CYS:SG	31:D5:48:GLU:O	2.41	0.78
36:DA:537:C:N4	36:DA:556:G:H1	1.80	0.78
36:DA:968:G:O2'	36:DA:969:U:H5'	1.82	0.78
1:AA:1108:G:H5'	3:AC:176:HIS:CD2	2.19	0.78
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.48	0.78
16:AP:43:LYS:HG2	16:AP:48:TRP:CZ3	2.18	0.78
32:B6:39:TYR:O	32:B6:41:PRO:HD3	1.82	0.78
36:BA:537:C:H42	36:BA:556:G:H1	1.30	0.78
36:BA:1230:C:O2'	36:BA:1231:G:H5'	1.83	0.78
36:BA:1754:C:H5''	52:BT:113:LYS:HZ3	1.45	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1901:A:O2'	36:BA:1902:C:H5'	1.82	0.78
38:BC:100:ILE:HG23	38:BC:127:LEU:HG	1.63	0.78
39:BD:66:ASP:OD2	39:BD:69:ARG:HG3	1.82	0.78
42:BG:5:VAL:H	42:BG:8:LYS:CB	1.96	0.78
35:D9:10:ILE:H	35:D9:10:ILE:CD1	1.95	0.78
36:DA:1061:U:H4'	36:DA:1070:A:H4'	1.66	0.78
36:DA:1514:U:H2'	36:DA:1515:G:H8	1.48	0.78
37:DB:20:C:C2'	37:DB:21:G:H5''	2.12	0.78
39:DD:147:LEU:HD21	39:DD:183:ARG:HH22	1.49	0.78
39:DD:147:LEU:HD21	39:DD:183:ARG:NH2	1.99	0.78
40:DE:195:LEU:HD12	40:DE:196:VAL:H	1.46	0.78
41:DF:32:LEU:O	41:DF:32:LEU:HD23	1.83	0.78
52:DT:58:ASN:H	52:DT:58:ASN:HD22	1.29	0.78
1:AA:744:C:H2'	1:AA:745:C:C6	2.17	0.78
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	1.98	0.78
8:AH:17:THR:HB	8:AH:78:GLN:OE1	1.83	0.78
27:B1:67:ILE:N	27:B1:68:PRO:HD2	1.99	0.78
32:B6:11:LEU:HD13	32:B6:12:GLU:N	1.98	0.78
36:BA:151:C:H2'	36:BA:152:G:C8	2.17	0.78
36:BA:269:U:H2'	36:BA:269:U:O2	1.83	0.78
36:BA:483:A:H4'	57:BY:49:VAL:HG22	1.65	0.78
36:BA:2466:C:O2'	36:BA:2467:C:H5'	1.83	0.78
36:BA:2781:A:C5'	36:BA:2782:G:H5'	2.14	0.78
52:BT:68:TYR:O	52:BT:70:VAL:N	2.15	0.78
55:BW:78:GLU:OE2	55:BW:99:ARG:HD2	1.83	0.78
3:CC:92:ALA:N	3:CC:99:VAL:HG11	1.97	0.78
3:CC:112:SER:HB3	3:CC:115:LEU:HD12	1.66	0.78
13:CM:15:VAL:HG22	13:CM:41:PRO:O	1.83	0.78
22:CW:17:C:N4	36:DA:2110:G:H21	1.81	0.78
31:D5:38:ALA:CB	31:D5:48:GLU:HB3	2.13	0.78
36:DA:560:C:H1'	53:DU:49:HIS:HE1	1.48	0.78
36:DA:611:C:H2'	36:DA:612:C:H6	1.47	0.78
36:DA:1141:U:H2'	46:DN:63:THR:CG2	2.14	0.78
1:AA:376:G:H2'	1:AA:377:G:C8	2.18	0.78
2:AB:22:LYS:HA	2:AB:22:LYS:HE2	1.64	0.78
11:AK:43:SER:HB3	11:AK:68:ALA:HB2	1.66	0.78
11:AK:66:LEU:O	11:AK:69:ALA:HB3	1.84	0.78
19:AS:16:LEU:CA	19:AS:19:VAL:HB	2.08	0.78
24:AY:6:U:C2'	24:AY:7:A:H5''	2.13	0.78
36:BA:55:G:HO2'	36:BA:127:A:H2	1.32	0.78
36:BA:659:C:H2'	36:BA:660:G:C8	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:852:G:O2'	36:BA:853:G:H5'	1.83	0.78
36:BA:1297:C:H2'	36:BA:1298:C:H6	1.49	0.78
50:BR:63:ARG:HG2	50:BR:80:PHE:HE2	1.47	0.78
1:CA:1371:G:O3'	9:CI:69:GLY:HA3	1.84	0.78
3:CC:13:GLY:H	14:CN:57:ARG:HD2	1.47	0.78
4:CD:100:ARG:HH21	4:CD:118:ARG:NH1	1.78	0.78
5:CE:92:LYS:O	5:CE:118:ILE:HD12	1.84	0.78
36:DA:90:U:H1'	36:DA:92:A:N7	1.98	0.78
36:DA:2735:G:H2'	36:DA:2736:G:H8	1.49	0.78
37:DB:42:C:HO2'	37:DB:43:C:H6	1.31	0.78
39:DD:35:LYS:CG	39:DD:63:ARG:HG2	2.13	0.78
48:DP:85:LEU:HD23	48:DP:115:LEU:O	1.84	0.78
27:B1:63:ALA:HB3	27:B1:66:HIS:HB2	1.66	0.78
36:BA:611:C:H2'	36:BA:612:C:H6	1.47	0.78
36:BA:1353:A:H4'	39:BD:38:LYS:HE3	1.64	0.78
36:BA:2735:G:H2'	36:BA:2736:G:H8	1.49	0.78
49:BQ:42:ILE:O	49:BQ:94:VAL:HA	1.84	0.78
50:BR:84:ALA:HB3	50:BR:85:PRO:HD3	1.66	0.78
58:BZ:59:LEU:O	58:BZ:66:SER:HA	1.84	0.78
4:CD:4:TYR:O	4:CD:5:ILE:HB	1.82	0.78
11:CK:57:THR:OG1	11:CK:58:PRO:HD2	1.84	0.78
25:CZ:80:VAL:HG21	25:CZ:98:GLN:OE1	1.84	0.78
27:D1:5:CYS:SG	27:D1:63:ALA:HB2	2.23	0.78
28:D2:13:ALA:HA	28:D2:16:LEU:HD12	1.66	0.78
1:AA:267:C:H2'	1:AA:268:C:H6	1.49	0.78
1:AA:1142:G:H2'	1:AA:1143:G:H5'	1.66	0.78
11:AK:59:TYR:O	11:AK:62:GLN:HB3	1.83	0.78
26:B0:23:VAL:HA	26:B0:38:VAL:HG22	1.65	0.78
27:B1:7:ILE:HG21	27:B1:66:HIS:HB3	1.65	0.78
41:BF:3:GLU:O	41:BF:19:GLU:HB2	1.83	0.78
52:BT:83:ILE:HG13	52:BT:84:GLN:N	1.98	0.78
58:BZ:153:SER:CB	58:BZ:167:PRO:HB3	2.14	0.78
25:CZ:223:MET:HE3	25:CZ:223:MET:O	1.83	0.78
28:D2:41:ILE:HG13	28:D2:43:GLN:H	1.49	0.78
32:D6:20:ASN:ND2	32:D6:41:PRO:HB3	1.98	0.78
36:DA:2208:A:H1'	36:DA:2219:G:C5	2.18	0.78
36:DA:2466:C:O2'	36:DA:2467:C:H5'	1.83	0.78
38:DC:100:ILE:HG21	38:DC:126:LYS:CB	2.13	0.78
48:DP:62:LEU:HD23	48:DP:62:LEU:H	1.47	0.78
13:AM:54:VAL:HG11	30:B4:17:GLY:O	1.83	0.78
19:AS:78:ARG:HB2	19:AS:81:ARG:HH11	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:90:U:H1'	36:BA:92:A:N7	1.98	0.78
36:BA:2208:A:H1'	36:BA:2219:G:C5	2.19	0.78
36:BA:2712:U:H1'	36:BA:2712(A):A:N7	1.99	0.78
43:BH:118:PRO:HG2	43:BH:121:ILE:HB	1.65	0.78
49:BQ:43:THR:HB	49:BQ:45:GLN:NE2	1.97	0.78
25:CZ:355:LEU:CB	25:CZ:359:VAL:HG23	2.10	0.78
36:DA:1230:C:O2'	36:DA:1231:G:H5'	1.84	0.78
38:DC:114:VAL:CB	38:DC:149:ILE:HD11	2.08	0.78
54:DV:20:LEU:HD12	54:DV:20:LEU:H	1.48	0.78
1:AA:742:G:H5''	15:AO:58:MET:HE1	1.64	0.78
20:AT:57:ARG:NH1	20:AT:57:ARG:HB2	1.99	0.78
31:B5:31:VAL:HG11	36:BA:2886:G:H21	1.48	0.78
31:B5:44:THR:HG22	31:B5:45:VAL:H	1.47	0.78
36:BA:650:C:H3'	36:BA:651:G:H5''	1.65	0.78
36:BA:1612:C:H42	36:BA:1619:G:H1	1.29	0.78
36:BA:2402:C:C2'	36:BA:2403:C:H5'	2.14	0.78
36:BA:2506:U:H5'	36:BA:2506:U:H6	1.45	0.78
49:BQ:20:ALA:H	58:BZ:79:ARG:CZ	1.97	0.78
10:CJ:22:LYS:O	10:CJ:22:LYS:HD2	1.84	0.78
12:CL:110:VAL:O	12:CL:122:THR:HB	1.84	0.78
15:CO:10:LYS:HE3	15:CO:10:LYS:C	2.04	0.78
36:DA:2219:G:O2'	36:DA:2220:G:H5'	1.83	0.78
39:DD:30:GLU:HG3	39:DD:63:ARG:CZ	2.14	0.78
42:DG:15:VAL:HG12	42:DG:19:LEU:HG	1.63	0.78
48:DP:9:ASN:N	48:DP:10:PRO:HD2	1.96	0.78
1:AA:436:C:H2'	1:AA:437:U:C6	2.19	0.78
1:AA:795:C:H1'	1:AA:1506:U:C6	2.18	0.78
11:AK:120:ARG:HH12	11:AK:126:ARG:HD2	1.49	0.78
37:BB:115:G:H2'	37:BB:116:G:H8	1.49	0.78
39:BD:147:LEU:HD21	39:BD:183:ARG:HH22	1.48	0.78
47:BO:114:ILE:HD12	47:BO:114:ILE:N	1.99	0.78
54:BV:20:LEU:HD12	54:BV:20:LEU:H	1.47	0.78
1:CA:178:C:H2'	1:CA:179:A:H8	1.47	0.78
15:CO:17:ARG:HD3	15:CO:26:GLU:HG3	1.66	0.78
22:CW:38:A:H3'	22:CW:39:U:H5''	1.66	0.78
36:DA:1496:A:H8	36:DA:1577:C:HO2'	1.32	0.78
39:DD:183:ARG:HD2	39:DD:270:ILE:HG22	1.64	0.78
1:AA:684:A:H1'	11:AK:39:PRO:HD2	1.66	0.78
2:AB:130:ARG:HE	2:AB:130:ARG:HA	1.49	0.78
5:AE:11:ILE:HD12	5:AE:31:LEU:CD1	2.14	0.78
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:5:ARG:C	16:AP:6:LEU:HD12	2.05	0.78
25:AZ:264:ARG:HG2	25:AZ:264:ARG:NH1	1.87	0.78
25:AZ:316:PHE:CE1	25:AZ:372:VAL:HB	2.18	0.78
26:B0:20:ARG:HD2	26:B0:20:ARG:H	1.49	0.78
29:B3:28:LEU:HD23	29:B3:28:LEU:N	1.99	0.78
35:B9:30:PRO:HB2	36:BA:2527:C:H4'	1.64	0.78
36:BA:1290:C:H2'	36:BA:1291:C:H6	1.48	0.78
36:BA:1496:A:H8	36:BA:1577:C:HO2'	1.32	0.78
40:BE:87:GLU:O	40:BE:89:ASP:N	2.17	0.78
48:BP:16:ARG:HH11	48:BP:16:ARG:C	1.87	0.78
51:BS:15:ARG:NH1	51:BS:15:ARG:HB2	1.99	0.78
52:BT:129:ARG:CZ	52:BT:131:ALA:HB3	2.14	0.78
54:BV:15:GLU:HB3	54:BV:16:PRO:HD2	1.65	0.78
8:CH:34:GLU:O	8:CH:38:ILE:HG13	1.83	0.78
10:CJ:61:GLU:HG3	14:CN:58:LYS:HE2	1.64	0.78
16:CP:5:ARG:C	16:CP:6:LEU:HD12	2.04	0.78
22:CW:33:U:H2'	22:CW:35:A:OP2	1.84	0.78
25:CZ:72:THR:HG22	25:CZ:203:LEU:CD2	2.13	0.78
27:D1:62:VAL:HG11	27:D1:67:ILE:HG12	1.64	0.78
28:D2:2:LYS:HA	28:D2:5:GLU:OE2	1.83	0.78
28:D2:38:GLN:O	28:D2:41:ILE:HG12	1.82	0.78
53:DU:52:ARG:CZ	53:DU:55:ARG:HH22	1.97	0.78
1:AA:41:G:H2'	1:AA:42:G:C8	2.19	0.77
1:AA:254:G:H21	17:AQ:16:GLN:NE2	1.81	0.77
1:AA:932:C:H5''	7:AG:3:ARG:HD2	1.67	0.77
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.48	0.77
1:AA:1510:U:H3	1:AA:1525:G:H1	1.32	0.77
9:AI:10:ARG:HB2	9:AI:76:ALA:HB2	1.64	0.77
10:AJ:43:ARG:HB2	10:AJ:67:THR:HG22	1.63	0.77
25:AZ:191:GLY:HA2	25:AZ:196:VAL:HG12	1.65	0.77
36:BA:634:C:H2'	36:BA:635:C:C6	2.18	0.77
36:BA:886:C:O2'	36:BA:887:A:H4'	1.84	0.77
39:BD:147:LEU:HD21	39:BD:183:ARG:NH2	1.99	0.77
48:BP:12:ALA:HB1	48:BP:16:ARG:HB3	1.66	0.77
55:BW:50:VAL:O	55:BW:105:VAL:HG21	1.83	0.77
1:CA:55:A:H2'	25:CZ:232:THR:HG21	1.64	0.77
1:CA:150:C:C2'	1:CA:151:A:H5''	2.13	0.77
1:CA:1523:G:H2'	1:CA:1524:C:C6	2.19	0.77
8:CH:5:PRO:O	8:CH:8:ASP:HB3	1.83	0.77
9:CI:77:ILE:O	9:CI:81:ILE:HG12	1.83	0.77
10:CJ:34:VAL:HG13	10:CJ:73:ASP:O	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D4:9:LEU:HG	42:DG:98:ARG:NH1	1.99	0.77
36:DA:1668:A:H4'	36:DA:1669:A:O5'	1.84	0.77
36:DA:2338:G:H2'	36:DA:2339:G:H8	1.48	0.77
38:DC:99:ILE:HG23	38:DC:102:LYS:NZ	1.99	0.77
42:DG:12:TYR:HA	42:DG:16:ARG:HG2	1.64	0.77
47:DO:25:LEU:O	47:DO:26:LYS:HG3	1.84	0.77
1:AA:715:A:H2'	1:AA:716:A:C8	2.19	0.77
1:AA:1348:U:H4'	9:AI:120:ARG:HD2	1.66	0.77
1:AA:1371:G:O3'	9:AI:69:GLY:HA3	1.83	0.77
3:AC:153:VAL:O	3:AC:154:SER:HB3	1.83	0.77
25:AZ:15:GLY:HA2	25:AZ:79:HIS:CD2	2.20	0.77
25:AZ:389:ARG:HA	25:AZ:395:VAL:HG13	1.66	0.77
28:B2:25:VAL:C	28:B2:27:GLU:H	1.86	0.77
28:B2:43:GLN:O	28:B2:44:LEU:HB2	1.83	0.77
36:BA:1242:A:H5'	36:BA:1243:G:OP2	1.84	0.77
36:BA:2306:C:H4'	42:BG:136:ARG:HH22	1.48	0.77
36:BA:2833:G:H3'	36:BA:2834:G:H5'	1.66	0.77
47:BO:25:LEU:O	47:BO:26:LYS:HG3	1.85	0.77
31:D5:36:CYS:SG	31:D5:38:ALA:HB3	2.24	0.77
36:DA:782:A:C2	39:DD:226:MET:HG2	2.19	0.77
36:DA:886:C:O2'	36:DA:887:A:H4'	1.84	0.77
36:DA:2007:C:O2'	36:DA:2008:C:H5'	1.85	0.77
47:DO:72:PRO:C	47:DO:74:GLY:H	1.87	0.77
49:DQ:140:ALA:HB1	58:DZ:99:TYR:CB	2.13	0.77
50:DR:2:ARG:O	50:DR:2:ARG:HD2	1.83	0.77
53:DU:37:GLU:HA	53:DU:40:PHE:CE1	2.18	0.77
1:AA:59:A:H1'	1:AA:354:G:N2	2.00	0.77
1:AA:1191:A:H5''	3:AC:4:LYS:HZ2	1.48	0.77
4:AD:62:GLN:O	4:AD:66:ARG:HB2	1.84	0.77
12:AL:25:PRO:C	12:AL:27:LEU:H	1.85	0.77
16:AP:49:LEU:HD12	16:AP:50:LYS:N	2.00	0.77
19:AS:51:VAL:HG12	19:AS:52:TYR:H	1.49	0.77
25:AZ:20:VAL:HA	25:AZ:24:LYS:HZ1	1.48	0.77
36:BA:271:A:C2	36:BA:366:C:H1'	2.20	0.77
36:BA:271(P):C:C2'	36:BA:271(Q):G:H5'	2.13	0.77
36:BA:536:A:H2'	36:BA:537:C:C6	2.19	0.77
36:BA:1993:U:H4'	40:BE:128:SER:OG	1.83	0.77
36:BA:2514:U:H2'	36:BA:2515:C:C6	2.19	0.77
39:BD:83:GLU:HB2	39:BD:92:ILE:HD11	1.67	0.77
47:BO:72:PRO:C	47:BO:74:GLY:H	1.85	0.77
53:BU:37:GLU:HA	53:BU:40:PHE:CD1	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:9:MET:HG3	8:CH:26:VAL:HG21	1.66	0.77
27:D1:40:ARG:NH2	27:D1:42:GLN:HE21	1.82	0.77
33:D7:8:ASN:HD22	33:D7:9:ARG:N	1.80	0.77
36:DA:560:C:H1'	53:DU:49:HIS:CE1	2.18	0.77
36:DA:1518:U:H2'	36:DA:1519:G:O4'	1.84	0.77
36:DA:2572:A:N7	40:DE:145:LYS:HB2	1.98	0.77
38:DC:131:LEU:HB3	38:DC:136:LEU:HB2	1.65	0.77
1:AA:673:G:H5''	6:AF:87:ARG:NH1	1.99	0.77
2:AB:90:MET:HE2	2:AB:90:MET:HA	1.65	0.77
8:AH:30:ARG:HB3	8:AH:30:ARG:HH11	1.43	0.77
25:AZ:80:VAL:HG21	25:AZ:98:GLN:OE1	1.83	0.77
25:AZ:256:VAL:HG13	25:AZ:262:THR:HG22	1.65	0.77
31:B5:42:PRO:HB2	36:BA:2815:C:O2'	1.84	0.77
36:BA:1231:G:H2'	36:BA:1232:G:C8	2.20	0.77
36:BA:2029:G:H5''	36:BA:2030:A:OP2	1.84	0.77
1:CA:1041:A:H2'	1:CA:1042:G:C8	2.18	0.77
1:CA:1346:A:N6	1:CA:1374:A:H3'	1.99	0.77
3:CC:43:LEU:O	3:CC:47:LEU:HB2	1.84	0.77
11:CK:43:SER:HB3	11:CK:68:ALA:HB2	1.67	0.77
24:CY:75:C:H6	25:CZ:231:ILE:HG23	1.49	0.77
34:D8:50:LEU:C	34:D8:53:PRO:HD2	2.05	0.77
36:DA:806:C:O2'	36:DA:2445:G:H4'	1.84	0.77
36:DA:1658:C:H2'	36:DA:1659:U:C6	2.20	0.77
36:DA:2441:C:H2'	36:DA:2442:C:H6	1.47	0.77
37:DB:77:U:H4'	58:DZ:84:GLU:OE2	1.84	0.77
42:DG:5:VAL:H	42:DG:8:LYS:CB	1.98	0.77
48:DP:77:ARG:HD3	48:DP:78:PRO:HD2	1.65	0.77
49:DQ:12:GLN:HE21	49:DQ:73:PRO:HD2	1.47	0.77
56:DX:36:LYS:HA	56:DX:39:ILE:CB	2.14	0.77
1:AA:986:A:H1'	19:AS:54:GLY:O	1.84	0.77
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	1.83	0.77
18:AR:58:LEU:HD22	18:AR:62:GLU:HB3	1.64	0.77
24:AY:40:G:H2'	24:AY:41:G:C5'	2.14	0.77
25:AZ:107:SER:OG	25:AZ:137:LYS:HD2	1.83	0.77
31:B5:16:ARG:NH1	31:B5:20:ARG:HH11	1.82	0.77
36:BA:676:A:H8	36:BA:2443:C:H1'	1.47	0.77
36:BA:2127:G:H4'	38:BC:37:PHE:CD1	2.20	0.77
37:BB:44:G:H4'	37:BB:45:A:C8	2.19	0.77
41:BF:43:LYS:HB3	41:BF:98:SER:CB	2.13	0.77
2:CB:22:LYS:HA	2:CB:22:LYS:HE2	1.65	0.77
12:CL:83:VAL:HG11	12:CL:100:ILE:HG12	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:852:G:O2'	36:DA:853:G:H5'	1.83	0.77
36:DA:1165:U:H2'	36:DA:1166:C:H6	1.50	0.77
36:DA:1612:C:N4	36:DA:1619:G:H1	1.83	0.77
42:DG:177:GLY:O	42:DG:179:PRO:HD3	1.85	0.77
1:AA:178:C:H2'	1:AA:179:A:H8	1.49	0.77
1:AA:953:G:H2'	1:AA:954:G:O4'	1.85	0.77
1:AA:1452:C:H5'	1:AA:1456:G:C2	2.20	0.77
1:AA:1485:U:H2'	1:AA:1485:U:O2	1.82	0.77
2:AB:44:LEU:HD12	2:AB:44:LEU:H	1.48	0.77
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.49	0.77
17:AQ:34:LYS:HG2	17:AQ:35:VAL:H	1.50	0.77
36:BA:216:A:H2'	36:BA:217:G:O4'	1.84	0.77
36:BA:977:G:H2'	36:BA:978:G:H8	1.48	0.77
36:BA:1599:C:H2'	36:BA:1600:C:C6	2.20	0.77
36:BA:2572:A:N7	40:BE:145:LYS:HB2	1.99	0.77
56:BX:27:THR:HG22	56:BX:80:ILE:HG22	1.67	0.77
1:CA:580:U:H2'	1:CA:581:G:O4'	1.83	0.77
1:CA:972:C:H4'	10:CJ:57:LYS:HG3	1.65	0.77
1:CA:1142:G:H2'	1:CA:1143:G:H5'	1.64	0.77
2:CB:130:ARG:HE	2:CB:130:ARG:HA	1.50	0.77
5:CE:110:LEU:HD13	5:CE:118:ILE:HG21	1.66	0.77
25:CZ:316:PHE:CE1	25:CZ:372:VAL:HB	2.20	0.77
32:D6:48:VAL:HG23	32:D6:49:HIS:N	2.00	0.77
34:D8:61:LEU:CD1	34:D8:62:LEU:H	1.97	0.77
36:DA:634:C:H2'	36:DA:635:C:C6	2.20	0.77
36:DA:1484:G:C3'	36:DA:1485:G:H5''	2.14	0.77
36:DA:2887:U:H2'	36:DA:2888:C:C6	2.19	0.77
38:DC:4:GLY:O	38:DC:8:ARG:HG3	1.84	0.77
38:DC:94:VAL:HG12	38:DC:95:GLY:N	1.95	0.77
47:DO:7:TYR:HE1	47:DO:20:MET:HE3	1.48	0.77
52:DT:109:GLU:O	52:DT:112:ARG:HG2	1.85	0.77
53:DU:24:TYR:HB2	53:DU:29:SER:HB3	1.66	0.77
56:DX:65:ARG:HG2	56:DX:66:LEU:N	2.00	0.77
57:DY:81:LYS:HZ3	57:DY:99:CYS:HB2	1.48	0.77
58:DZ:70:LEU:CD2	58:DZ:91:LEU:HD21	2.15	0.77
3:AC:13:GLY:H	14:AN:57:ARG:HD2	1.48	0.77
3:AC:70:VAL:O	3:AC:106:VAL:HG23	1.84	0.77
25:AZ:145:GLU:C	25:AZ:149:LEU:HB3	2.05	0.77
36:BA:711:G:H1	36:BA:720:C:H42	1.32	0.77
36:BA:904:C:H2'	36:BA:905:U:C6	2.20	0.77
56:BX:44:GLU:OE2	56:BX:50:LYS:HG3	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:141:VAL:HA	58:BZ:144:LEU:HD23	1.67	0.77
2:CB:36:ARG:H	2:CB:41:ILE:HD13	1.50	0.77
32:D6:5:VAL:HG11	36:DA:2283:C:C5'	2.15	0.77
36:DA:483:A:H4'	57:DY:49:VAL:HG22	1.67	0.77
36:DA:594:U:H2'	36:DA:595:C:C6	2.19	0.77
36:DA:1991:U:H2'	36:DA:1992:G:H5''	1.66	0.77
36:DA:2402:C:H2'	36:DA:2403:C:H5'	1.65	0.77
36:DA:2454:G:H2'	36:DA:2455:G:C8	2.19	0.77
39:DD:166:GLN:HE21	39:DD:166:GLN:CA	1.97	0.77
40:DE:52:LEU:HB2	40:DE:76:ARG:HB2	1.66	0.77
54:DV:5:VAL:HG23	54:DV:37:VAL:O	1.85	0.77
55:DW:5:ALA:CB	55:DW:54:ALA:HB2	2.14	0.77
36:BA:709:U:H2'	36:BA:710:G:C8	2.20	0.77
36:BA:1064:C:H3'	36:BA:1065:U:H5''	1.66	0.77
36:BA:2009:G:H4'	55:BW:40:ASN:HD22	1.50	0.77
36:BA:2774:C:H2'	36:BA:2775:A:O4'	1.84	0.77
37:BB:82:G:H2'	37:BB:83:G:H8	1.50	0.77
41:BF:82:ILE:O	41:BF:83:PHE:CB	2.30	0.77
42:BG:117:PHE:HZ	42:BG:179:PRO:HB2	1.49	0.77
31:D5:4:HIS:CB	31:D5:5:PRO:HD3	2.11	0.77
36:DA:1665:A:C3'	36:DA:1666:G:H5''	2.15	0.77
42:DG:122:PRO:HG2	42:DG:123:ASN:ND2	1.99	0.77
58:DZ:5:LEU:O	58:DZ:59:LEU:HA	1.84	0.77
1:AA:84:U:C2'	1:AA:88:A:H5'	2.15	0.77
36:BA:2631:G:N2	40:BE:61:ARG:NH1	2.33	0.77
37:BB:106:G:C5'	58:BZ:31:ARG:HB3	2.13	0.77
39:BD:63:ARG:HH11	39:BD:63:ARG:CG	1.98	0.77
42:BG:39:ILE:HG22	42:BG:157:ILE:HG23	1.67	0.77
46:BN:111:PRO:HG3	46:BN:114:ARG:HH22	1.50	0.77
49:BQ:70:PRO:HA	49:BQ:94:VAL:O	1.85	0.77
51:BS:56:LEU:HD22	51:BS:58:LEU:HD22	1.66	0.77
56:BX:8:ILE:HG22	56:BX:8:ILE:O	1.84	0.77
56:BX:36:LYS:HA	56:BX:39:ILE:CB	2.14	0.77
19:CS:9:VAL:O	19:CS:11:VAL:HG12	1.85	0.77
25:CZ:171:ILE:HG13	25:CZ:201:GLU:HB3	1.67	0.77
29:D3:28:LEU:N	29:D3:28:LEU:HD23	1.98	0.77
32:D6:15:GLU:HA	32:D6:49:HIS:CE1	2.20	0.77
36:DA:2144:U:H2'	36:DA:2146:C:H5	1.50	0.77
41:DF:43:LYS:HB3	41:DF:98:SER:CB	2.15	0.77
41:DF:101:LEU:HD12	41:DF:102:PRO:HD2	1.65	0.77
48:DP:16:ARG:HH11	48:DP:16:ARG:C	1.87	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:96:THR:O	48:DP:99:LEU:HB3	1.83	0.77
51:DS:15:ARG:NH1	51:DS:15:ARG:HB2	1.99	0.77
2:AB:166:ASP:HB3	2:AB:169:LYS:HB2	1.66	0.77
9:AI:77:ILE:O	9:AI:81:ILE:HG12	1.84	0.77
36:BA:307:G:N2	36:BA:309:G:H3'	2.00	0.77
38:BC:99:ILE:HD12	38:BC:102:LYS:NZ	2.00	0.77
42:BG:27:ASN:HD22	42:BG:29:TRP:HB2	1.50	0.77
50:BR:13:HIS:O	50:BR:17:ARG:HB2	1.85	0.77
57:BY:86:ARG:HG2	57:BY:87:LYS:N	2.00	0.77
1:CA:838:G:C6	1:CA:840:C:H1'	2.19	0.77
1:CA:1305:G:H22	1:CA:1331:G:H2'	1.48	0.77
10:CJ:49:VAL:CG2	14:CN:41:ARG:HB2	2.14	0.77
28:D2:35:LEU:C	28:D2:35:LEU:HD13	2.05	0.77
36:DA:659:C:H2'	36:DA:660:G:C8	2.19	0.77
36:DA:1064:C:H3'	36:DA:1065:U:H5''	1.67	0.77
36:DA:1092:C:N4	36:DA:1100:C:H42	1.83	0.77
36:DA:1599:C:H2'	36:DA:1600:C:C6	2.18	0.77
36:DA:1775:U:H2'	36:DA:1776:G:C5'	2.15	0.77
36:DA:2306:C:H4'	42:DG:136:ARG:NH1	2.00	0.77
36:DA:2631:G:N2	40:DE:61:ARG:NH1	2.33	0.77
36:DA:2774:C:H2'	36:DA:2775:A:O4'	1.84	0.77
38:DC:100:ILE:HG23	38:DC:127:LEU:HG	1.64	0.77
55:DW:20:VAL:HG23	55:DW:47:VAL:HG21	1.67	0.77
56:DX:59:VAL:HG21	56:DX:78:LYS:HD3	1.67	0.77
10:AJ:50:ILE:HD13	10:AJ:50:ILE:N	1.99	0.76
11:AK:82:VAL:HG12	11:AK:108:ILE:HA	1.67	0.76
28:B2:35:LEU:O	28:B2:35:LEU:HD22	1.85	0.76
34:B8:59:LYS:HD3	48:BP:50:ARG:HB3	1.67	0.76
36:BA:122:G:H1	36:BA:129:C:H42	1.29	0.76
36:BA:1114:G:H2'	36:BA:1115:G:C8	2.20	0.76
36:BA:2243:U:H2'	36:BA:2244:U:C6	2.20	0.76
41:BF:72:ARG:HA	41:BF:72:ARG:NH1	1.97	0.76
48:BP:126:VAL:HA	48:BP:145:PRO:HB2	1.65	0.76
53:BU:37:GLU:HA	53:BU:40:PHE:CE1	2.20	0.76
1:CA:254:G:H21	17:CQ:16:GLN:NE2	1.83	0.76
1:CA:1108:G:H5'	3:CC:176:HIS:CD2	2.20	0.76
10:CJ:89:ASP:O	10:CJ:90:LEU:HB2	1.84	0.76
25:CZ:146:LEU:N	25:CZ:149:LEU:HB3	2.01	0.76
32:D6:5:VAL:HB	36:DA:2284:C:OP2	1.85	0.76
36:DA:672:C:C2'	36:DA:673:C:H5''	2.15	0.76
36:DA:1498:C:H2'	36:DA:1499:C:H5''	1.64	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DB:115:G:H2'	37:DB:116:G:H8	1.50	0.76
39:DD:35:LYS:NZ	39:DD:36:PRO:HD3	1.99	0.76
43:DH:52:VAL:HG11	43:DH:66:GLY:H	1.50	0.76
43:DH:148:ILE:O	43:DH:162:ILE:HD13	1.84	0.76
46:DN:89:LYS:O	46:DN:93:THR:HG22	1.83	0.76
1:AA:1314:C:OP2	19:AS:6:LYS:HG3	1.85	0.76
5:AE:41:VAL:CG1	5:AE:113:ALA:HA	2.15	0.76
9:AI:13:ALA:HB2	9:AI:68:GLY:HA3	1.67	0.76
13:AM:3:ARG:HA	13:AM:9:ILE:HG13	1.67	0.76
20:AT:36:LEU:HD11	20:AT:59:ALA:HB2	1.65	0.76
22:AW:33:U:H2'	22:AW:35:A:OP2	1.85	0.76
25:AZ:271:GLU:HG2	25:AZ:276:THR:HA	1.66	0.76
28:B2:32:LEU:HA	28:B2:53:LEU:HD13	1.67	0.76
35:B9:1:MET:SD	36:BA:2477:C:H2'	2.25	0.76
36:BA:203:C:H3'	36:BA:204:A:H5''	1.67	0.76
38:BC:131:LEU:HB3	38:BC:136:LEU:HB2	1.68	0.76
40:BE:38:THR:HG22	40:BE:40:GLU:H	1.50	0.76
40:BE:117:MET:SD	40:BE:136:ARG:HG2	2.25	0.76
56:BX:39:ILE:HG21	56:BX:54:VAL:HG11	1.67	0.76
1:CA:41:G:H2'	1:CA:42:G:C8	2.20	0.76
1:CA:1124:G:N2	1:CA:1126:U:H3	1.82	0.76
1:CA:1494:G:H2'	1:CA:1495:U:H6	1.51	0.76
9:CI:10:ARG:HG3	9:CI:75:ASP:HB3	1.67	0.76
19:CS:6:LYS:HD2	19:CS:6:LYS:H	1.50	0.76
19:CS:6:LYS:HG2	19:CS:7:LYS:HE3	1.68	0.76
19:CS:44:MET:N	19:CS:44:MET:SD	2.58	0.76
33:D7:18:PHE:HZ	36:DA:117:G:H4'	1.49	0.76
36:DA:1114:G:H2'	36:DA:1115:G:C8	2.21	0.76
10:AJ:22:LYS:HD2	10:AJ:22:LYS:O	1.84	0.76
22:AV:59:U:O2'	22:AV:60:U:H6	1.67	0.76
25:AZ:367:ASN:N	25:AZ:367:ASN:HD22	1.81	0.76
26:B0:77:ARG:HH22	36:BA:857:C:H5'	1.49	0.76
36:BA:1899:G:N2	36:BA:1902:C:H41	1.83	0.76
36:BA:2136:C:H42	36:BA:2155:G:H1	1.33	0.76
39:BD:70:TRP:CH2	39:BD:150:LYS:HA	2.20	0.76
40:BE:30:PRO:HD3	40:BE:180:ASN:ND2	2.01	0.76
41:BF:32:LEU:O	41:BF:32:LEU:HD23	1.85	0.76
42:BG:66:GLN:HG2	42:BG:67:LYS:H	1.50	0.76
57:BY:37:VAL:HG23	57:BY:38:ILE:N	1.99	0.76
58:BZ:128:VAL:HG22	58:BZ:129:SER:H	1.49	0.76
2:CB:166:ASP:HB3	2:CB:169:LYS:HB2	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:179:LYS:HA	8:CH:72:PRO:HD3	1.67	0.76
7:CG:120:ILE:O	7:CG:124:LEU:HB2	1.85	0.76
10:CJ:27:ALA:HA	10:CJ:30:SER:OG	1.85	0.76
11:CK:66:LEU:O	11:CK:69:ALA:HB3	1.85	0.76
16:CP:67:THR:HG22	16:CP:68:ASP:H	1.51	0.76
36:DA:537:C:H42	36:DA:556:G:H1	1.32	0.76
36:DA:1327:C:N4	36:DA:1647:G:H21	1.82	0.76
36:DA:1498:C:C3'	36:DA:1499:C:H5''	2.16	0.76
36:DA:1820:U:O2'	39:DD:159:ALA:HB3	1.86	0.76
36:DA:2306:C:H4'	42:DG:136:ARG:CZ	2.14	0.76
41:DF:72:ARG:HA	41:DF:72:ARG:NH1	1.99	0.76
42:DG:36:LYS:HA	42:DG:99:MET:SD	2.25	0.76
52:DT:28:VAL:HG22	52:DT:47:GLY:N	1.98	0.76
56:DX:39:ILE:HG21	56:DX:54:VAL:HG11	1.67	0.76
1:AA:741:G:H2'	1:AA:742:G:H8	1.51	0.76
8:AH:34:GLU:O	8:AH:38:ILE:HG13	1.86	0.76
13:AM:49:THR:HB	13:AM:52:GLU:HG3	1.67	0.76
14:AN:13:THR:N	14:AN:14:PRO:CD	2.48	0.76
15:AO:17:ARG:HD3	15:AO:26:GLU:HG3	1.67	0.76
29:B3:18:ASP:HB2	36:BA:850:C:H4'	1.66	0.76
33:B7:8:ASN:HD22	33:B7:9:ARG:N	1.82	0.76
36:BA:38:A:H2'	36:BA:39:C:H6	1.50	0.76
36:BA:672:C:C2'	36:BA:673:C:H5''	2.14	0.76
36:BA:991:C:H5'	36:BA:991:C:H6	1.50	0.76
36:BA:1828:G:O6	39:BD:222:ARG:HD3	1.85	0.76
36:BA:2553:G:H2'	36:BA:2554:U:O4'	1.86	0.76
41:BF:37:VAL:HG22	41:BF:183:VAL:HG23	1.68	0.76
41:BF:113:ALA:O	41:BF:117:ARG:HB2	1.84	0.76
46:BN:28:THR:CG2	46:BN:29:LYS:H	1.99	0.76
51:BS:15:ARG:HB2	51:BS:15:ARG:HH11	1.51	0.76
1:CA:255:G:H1'	17:CQ:16:GLN:NE2	2.00	0.76
1:CA:355:C:H2'	1:CA:356:A:H8	1.50	0.76
1:CA:932:C:H5''	7:CG:3:ARG:HD2	1.66	0.76
9:CI:99:LEU:HB3	9:CI:101:PHE:CD1	2.20	0.76
25:CZ:313:HIS:HB2	25:CZ:380:LEU:HD12	1.66	0.76
34:D8:30:ARG:NE	34:D8:30:ARG:HA	1.98	0.76
36:DA:197:A:C8	36:DA:197:A:H5'	2.20	0.76
36:DA:1184:G:O2'	36:DA:1185:C:H5'	1.84	0.76
36:DA:2246:G:H2'	36:DA:2247:A:C8	2.21	0.76
37:DB:44:G:H4'	37:DB:45:A:C8	2.20	0.76
39:DD:83:GLU:HB2	39:DD:92:ILE:HD11	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:72:THR:HG22	25:AZ:203:LEU:CD2	2.15	0.76
36:BA:903:C:H2'	36:BA:904:C:C6	2.21	0.76
36:BA:2064:C:H2'	36:BA:2065:C:C6	2.21	0.76
1:CA:1152:A:O2'	1:CA:1153:C:H5'	1.86	0.76
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	2.01	0.76
7:CG:72:ARG:CG	7:CG:73:MET:HG3	2.15	0.76
22:CV:68:C:C3'	22:CV:69:G:H5''	2.16	0.76
36:DA:650:C:H3'	36:DA:651:G:H5''	1.67	0.76
36:DA:2064:C:H2'	36:DA:2065:C:C6	2.21	0.76
36:DA:2110:G:H1	36:DA:2178:C:N4	1.83	0.76
36:DA:2590:A:OP2	39:DD:238:GLY:HA2	1.85	0.76
52:DT:107:ASP:OD2	52:DT:109:GLU:HG3	1.84	0.76
52:DT:107:ASP:CG	52:DT:108:ARG:H	1.87	0.76
1:AA:584:G:H2'	1:AA:585:G:C8	2.20	0.76
1:AA:1346:A:N6	1:AA:1374:A:H3'	2.01	0.76
25:AZ:317:GLU:HG3	25:AZ:404:LEU:HD21	1.67	0.76
27:B1:8:SER:OG	27:B1:10:LYS:HG3	1.86	0.76
31:B5:3:LYS:HD3	36:BA:747:U:P	2.26	0.76
31:B5:34:PRO:O	31:B5:35:GLU:HG2	1.84	0.76
32:B6:48:VAL:HG23	32:B6:49:HIS:H	1.50	0.76
36:BA:296:C:O2'	36:BA:297:C:H5'	1.84	0.76
36:BA:482:A:H4'	57:BY:47:LYS:HD3	1.67	0.76
36:BA:968:G:O2'	36:BA:969:U:H5'	1.85	0.76
36:BA:1603:A:H8	36:BA:1603:A:H5'	1.50	0.76
36:BA:2389:G:H5''	36:BA:2390:U:H5'	1.68	0.76
48:BP:47:ASP:HB3	48:BP:49:ARG:H	1.48	0.76
1:CA:84:U:C2'	1:CA:88:A:H5'	2.16	0.76
1:CA:436:C:H2'	1:CA:437:U:C6	2.21	0.76
1:CA:737:A:H2'	1:CA:738:C:C6	2.20	0.76
1:CA:1256:A:H5'	1:CA:1257:U:OP1	1.85	0.76
2:CB:87:ARG:HH21	2:CB:233:SER:N	1.84	0.76
3:CC:58:GLU:N	3:CC:65:ALA:HB3	2.00	0.76
4:CD:114:ARG:HG3	4:CD:114:ARG:HH11	1.51	0.76
20:CT:14:LYS:O	20:CT:18:GLN:HB2	1.85	0.76
25:CZ:367:ASN:N	25:CZ:367:ASN:HD22	1.82	0.76
31:D5:34:PRO:O	31:D5:35:GLU:HG2	1.86	0.76
33:D7:8:ASN:HD22	33:D7:8:ASN:C	1.87	0.76
36:DA:827:U:H2'	36:DA:2068:U:C2	2.20	0.76
36:DA:1665:A:H2'	36:DA:1666:G:C5'	2.15	0.76
36:DA:1693:U:C6	36:DA:1693:U:H5'	2.21	0.76
42:DG:163:ALA:HB1	42:DG:169:ALA:HB2	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:167:PRO:HG2	2:AB:192:SER:OG	1.86	0.76
3:AC:52:LEU:H	3:AC:52:LEU:HD23	1.51	0.76
5:AE:64:ARG:O	5:AE:66:MET:HE2	1.86	0.76
9:AI:9:ARG:HB2	9:AI:104:ARG:NH1	1.99	0.76
10:AJ:27:ALA:HA	10:AJ:30:SER:OG	1.85	0.76
19:AS:44:MET:HA	19:AS:47:HIS:CD2	2.15	0.76
25:AZ:138:VAL:CG2	25:AZ:173:GLY:H	1.87	0.76
36:BA:1184:G:O2'	36:BA:1185:C:H5'	1.86	0.76
36:BA:1665:A:C3'	36:BA:1666:G:H5''	2.15	0.76
36:BA:2200:C:H42	36:BA:2223:G:H1	1.33	0.76
40:BE:195:LEU:HD12	40:BE:196:VAL:H	1.49	0.76
53:BU:88:ILE:C	53:BU:90:VAL:H	1.88	0.76
55:BW:5:ALA:HB2	55:BW:54:ALA:CB	2.16	0.76
1:CA:741:G:H2'	1:CA:742:G:H8	1.51	0.76
4:CD:57:ARG:HB3	4:CD:206:PHE:HB2	1.67	0.76
15:CO:56:LEU:O	15:CO:60:VAL:HG23	1.86	0.76
18:CR:53:ARG:NH2	18:CR:59:SER:HA	1.99	0.76
36:DA:2422:A:H4'	36:DA:2423:U:OP1	1.85	0.76
48:DP:126:VAL:HA	48:DP:145:PRO:HB2	1.66	0.76
50:DR:103:ARG:NH1	50:DR:110:PRO:HD3	2.01	0.76
52:DT:129:ARG:CZ	52:DT:131:ALA:HB3	2.15	0.76
1:AA:105:G:H2'	1:AA:106:C:C6	2.20	0.76
1:AA:552:U:H2'	1:AA:553:A:H8	1.49	0.76
5:AE:144:THR:O	5:AE:148:VAL:HG23	1.86	0.76
24:AY:40:G:C2'	24:AY:41:G:H5''	2.15	0.76
27:B1:44:PRO:HG2	27:B1:46:LEU:HD23	1.67	0.76
28:B2:68:ARG:NH1	28:B2:72:ALA:HB2	2.01	0.76
55:BW:12:ILE:HB	55:BW:42:ARG:HH12	1.51	0.76
1:CA:1154:G:H2'	1:CA:1155:G:C8	2.20	0.76
9:CI:13:ALA:HB2	9:CI:68:GLY:HA3	1.68	0.76
10:CJ:8:LEU:HG	10:CJ:96:ILE:HG22	1.67	0.76
29:D3:59:VAL:HG12	29:D3:60:GLU:N	2.00	0.76
31:D5:3:LYS:HD3	36:DA:747:U:P	2.25	0.76
36:DA:2846:G:OP2	52:DT:54:ARG:HD2	1.86	0.76
40:DE:80:GLU:O	40:DE:81:ILE:HG12	1.85	0.76
41:DF:113:ALA:O	41:DF:117:ARG:HB2	1.85	0.76
47:DO:114:ILE:H	47:DO:114:ILE:CD1	1.97	0.76
49:DQ:134:ARG:HD2	58:DZ:122:ARG:NH2	2.00	0.76
58:DZ:57:ILE:HD12	58:DZ:57:ILE:N	2.00	0.76
1:AA:607:A:O2'	1:AA:608:A:H5'	1.85	0.76
1:AA:1124:G:N2	1:AA:1126:U:H3	1.83	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1256:A:H5'	1:AA:1257:U:OP1	1.85	0.76
10:AJ:89:ASP:O	10:AJ:90:LEU:HB2	1.85	0.76
24:AY:14:A:H2'	24:AY:15:G:O4'	1.84	0.76
25:AZ:132:VAL:HG13	25:AZ:169:PRO:HB2	1.68	0.76
36:BA:116:C:H2'	36:BA:117:G:C8	2.20	0.76
36:BA:534:U:O2'	53:BU:49:HIS:HD2	1.68	0.76
36:BA:751:A:H5'	55:BW:90:ARG:HA	1.67	0.76
36:BA:1165:U:H2'	36:BA:1166:C:H6	1.51	0.76
36:BA:2025:C:H2'	36:BA:2026:C:C6	2.20	0.76
36:BA:2454:G:H2'	36:BA:2455:G:C8	2.21	0.76
37:BB:34:U:H4'	37:BB:35:U:C5	2.20	0.76
48:BP:77:ARG:HD3	48:BP:78:PRO:HD2	1.67	0.76
1:CA:450:G:H5''	1:CA:451:A:H3'	1.67	0.76
1:CA:1249:C:H5'	1:CA:1249:C:H6	1.51	0.76
3:CC:70:VAL:O	3:CC:106:VAL:HG23	1.84	0.76
4:CD:6:GLY:O	4:CD:8:VAL:HG13	1.86	0.76
5:CE:41:VAL:CG1	5:CE:113:ALA:HA	2.15	0.76
10:CJ:16:LEU:HD13	10:CJ:17:ASP:N	2.00	0.76
11:CK:38:ASN:HD22	11:CK:38:ASN:N	1.84	0.76
13:CM:3:ARG:HA	13:CM:9:ILE:HG13	1.68	0.76
20:CT:36:LEU:HD11	20:CT:59:ALA:HB2	1.68	0.76
31:D5:49:CYS:SG	31:D5:50:GLY:N	2.59	0.76
36:DA:145:G:C2'	36:DA:146:G:H5''	2.16	0.76
36:DA:272(D):G:H2'	36:DA:272(E):G:H8	1.50	0.76
36:DA:814:C:O2'	36:DA:815:C:H5'	1.86	0.76
36:DA:1058:G:C2'	36:DA:1059:G:H5''	2.15	0.76
36:DA:2262:U:H2'	36:DA:2263:C:C5	2.20	0.76
39:DD:8:PRO:HB3	39:DD:14:ARG:HB2	1.68	0.76
50:DR:99:LYS:HD2	50:DR:99:LYS:N	2.00	0.76
51:DS:13:ARG:HG3	51:DS:14:VAL:N	1.99	0.76
1:AA:807:A:H2'	1:AA:808:C:H6	1.51	0.76
1:AA:1003:G:H2'	1:AA:1004:A:C4'	2.16	0.76
1:AA:1323:G:O2'	1:AA:1324:A:H5'	1.86	0.76
2:AB:204:ASN:HD21	2:AB:207:ALA:H	1.34	0.76
7:AG:24:THR:HA	7:AG:27:ILE:CD1	2.16	0.76
16:AP:67:THR:HG22	16:AP:68:ASP:H	1.49	0.76
25:AZ:234:ARG:HD2	25:AZ:289:LEU:HD22	1.68	0.76
31:B5:36:CYS:SG	31:B5:38:ALA:HB3	2.25	0.76
36:BA:83:G:HO2'	36:BA:84:A:H8	1.33	0.76
36:BA:1612:C:N4	36:BA:1619:G:H1	1.83	0.76
38:BC:75:LEU:O	38:BC:114:VAL:HG22	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:52:VAL:HG11	43:BH:66:GLY:H	1.51	0.76
50:BR:103:ARG:NH1	50:BR:110:PRO:HD3	2.00	0.76
52:BT:107:ASP:OD2	52:BT:109:GLU:HG3	1.85	0.76
57:BY:86:ARG:HB3	57:BY:88:LYS:NZ	1.99	0.76
1:CA:1070:U:H2'	1:CA:1071:C:H6	1.50	0.76
2:CB:61:LEU:HD23	2:CB:68:ILE:HD11	1.68	0.76
10:CJ:78:ASN:HD22	10:CJ:81:THR:CG2	1.98	0.76
25:CZ:356:PRO:N	25:CZ:359:VAL:HG21	2.01	0.76
36:DA:536:A:H2'	36:DA:537:C:C6	2.20	0.76
36:DA:1411:C:H2'	36:DA:1412:A:C8	2.20	0.76
36:DA:2570:G:H2'	36:DA:2571:C:H6	1.51	0.76
41:DF:24:LEU:CB	41:DF:25:PRO:HD2	2.16	0.76
41:DF:118:ALA:HA	41:DF:123:LEU:HB2	1.68	0.76
48:DP:12:ALA:HB1	48:DP:16:ARG:HB3	1.66	0.76
1:AA:1152:A:O2'	1:AA:1153:C:H5'	1.86	0.75
1:AA:1442(A):G:H5'	1:AA:1442(B):A:OP2	1.86	0.75
3:AC:64:VAL:O	3:AC:100:ALA:HB3	1.86	0.75
5:AE:92:LYS:O	5:AE:118:ILE:HD12	1.85	0.75
8:AH:11:THR:HG22	8:AH:15:ASN:ND2	2.01	0.75
19:AS:44:MET:N	19:AS:44:MET:SD	2.58	0.75
36:BA:1539:G:C2	36:BA:1540:U:H1'	2.21	0.75
38:BC:114:VAL:CB	38:BC:149:ILE:HD11	2.08	0.75
51:BS:46:VAL:HG12	51:BS:47:THR:H	1.50	0.75
56:BX:14:SER:O	56:BX:17:ALA:HB3	1.85	0.75
1:CA:1242:C:H2'	1:CA:1243:C:C6	2.20	0.75
25:CZ:389:ARG:HA	25:CZ:395:VAL:HG13	1.66	0.75
32:D6:36:LEU:HD12	32:D6:50:ARG:NH2	2.00	0.75
36:DA:2358:G:O2'	36:DA:2359:C:H5'	1.86	0.75
42:DG:46:ALA:CB	42:DG:88:ILE:HG13	2.16	0.75
52:DT:89:VAL:CG1	52:DT:91:ARG:HE	1.99	0.75
56:DX:56:THR:HG22	56:DX:79:ALA:CB	2.16	0.75
58:DZ:127:LYS:HZ3	58:DZ:164:ALA:HB2	1.49	0.75
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.51	0.75
9:AI:110:GLU:HG2	9:AI:113:LYS:NZ	2.01	0.75
12:AL:89:ARG:NH1	12:AL:91:LYS:HD3	2.00	0.75
35:B9:36:GLN:NE2	36:BA:1031:G:H21	1.84	0.75
36:BA:1514:U:H2'	36:BA:1515:G:H8	1.50	0.75
36:BA:2008:C:H2'	36:BA:2009:G:C8	2.21	0.75
36:BA:2228:G:OP1	39:BD:261:LYS:HE3	1.86	0.75
37:BB:34:U:H4'	37:BB:35:U:H5	1.50	0.75
48:BP:96:THR:O	48:BP:99:LEU:HB3	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1346:A:H61	1:CA:1374:A:H3'	1.50	0.75
2:CB:33:TYR:HB2	2:CB:43:ASP:HB2	1.66	0.75
11:CK:82:VAL:HG12	11:CK:108:ILE:HA	1.68	0.75
18:CR:50:ILE:HD12	18:CR:70:ILE:HG21	1.67	0.75
26:D0:77:ARG:HH22	36:DA:857:C:H5'	1.49	0.75
34:D8:59:LYS:HD3	48:DP:50:ARG:HB3	1.67	0.75
36:DA:440:G:N2	41:DF:46:ARG:HH21	1.85	0.75
36:DA:508:G:H5'	36:DA:509:C:OP1	1.87	0.75
36:DA:1842:G:H2'	36:DA:1843:C:C6	2.21	0.75
36:DA:1998:G:O2'	36:DA:1999:C:H5'	1.86	0.75
39:DD:66:ASP:CG	39:DD:103:ARG:HH21	1.87	0.75
41:DF:3:GLU:O	41:DF:19:GLU:HB2	1.86	0.75
49:DQ:110:THR:HG23	49:DQ:113:GLN:H	1.48	0.75
58:DZ:69:THR:HG22	58:DZ:90:VAL:HA	1.68	0.75
25:AZ:225:VAL:HG12	25:AZ:300:ARG:HA	1.69	0.75
34:B8:3:LYS:HD3	36:BA:242:G:O5'	1.86	0.75
36:BA:1013:C:O2'	36:BA:1014:U:H5'	1.86	0.75
36:BA:1370:C:H3'	36:BA:1371:G:H8	1.50	0.75
40:BE:47:VAL:HG21	40:BE:85:ASN:HA	1.68	0.75
41:BF:57:VAL:HG12	41:BF:58:ALA:N	2.01	0.75
51:BS:67:ARG:HH21	51:BS:100:ALA:HB3	1.49	0.75
52:BT:58:ASN:ND2	52:BT:58:ASN:N	2.34	0.75
56:BX:36:LYS:CA	56:BX:39:ILE:HB	2.15	0.75
56:BX:56:THR:HG22	56:BX:79:ALA:CB	2.16	0.75
1:CA:619:U:C2	4:CD:135:LEU:HD21	2.21	0.75
1:CA:1442:G:H2'	1:CA:1442(B):A:C2	2.21	0.75
19:CS:63:THR:HG22	19:CS:66:MET:HG2	1.67	0.75
36:DA:269:U:O2	36:DA:269:U:H2'	1.85	0.75
36:DA:811:U:OP2	48:DP:24:GLY:HA2	1.86	0.75
41:DF:2:LYS:HG3	41:DF:25:PRO:HG2	1.69	0.75
49:DQ:70:PRO:HA	49:DQ:94:VAL:O	1.86	0.75
54:DV:22:VAL:HG22	54:DV:92:THR:O	1.87	0.75
1:AA:1346:A:H61	1:AA:1374:A:H3'	1.51	0.75
2:AB:204:ASN:HD21	2:AB:207:ALA:N	1.84	0.75
19:AS:6:LYS:HD2	19:AS:6:LYS:H	1.49	0.75
36:BA:2422:A:H4'	36:BA:2423:U:OP1	1.86	0.75
39:BD:183:ARG:HD2	39:BD:270:ILE:HG22	1.68	0.75
43:BH:33:LEU:HD12	43:BH:75:ALA:CA	2.17	0.75
1:CA:1251:A:H4'	9:CI:12:GLU:OE1	1.86	0.75
2:CB:168:THR:HG23	2:CB:192:SER:CB	2.17	0.75
36:DA:145:G:C3'	36:DA:146:G:H5''	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:709:U:H2'	36:DA:710:G:C8	2.21	0.75
36:DA:2752:C:H2'	36:DA:2752:C:O2	1.85	0.75
36:DA:2861:G:O2'	36:DA:2862:G:H5'	1.86	0.75
40:DE:198:VAL:HG12	40:DE:199:ARG:N	2.01	0.75
42:DG:51:ARG:HA	42:DG:51:ARG:HE	1.47	0.75
43:DH:118:PRO:HG2	43:DH:121:ILE:HB	1.69	0.75
52:DT:13:ARG:NE	52:DT:13:ARG:HA	2.01	0.75
1:AA:1489:G:O2'	1:AA:1490:C:H5'	1.87	0.75
4:AD:100:ARG:NH2	4:AD:118:ARG:HH12	1.80	0.75
10:AJ:78:ASN:HD22	10:AJ:81:THR:CG2	1.98	0.75
36:BA:687:C:H2'	36:BA:688:U:O4'	1.86	0.75
36:BA:1208:C:H2'	36:BA:1209:G:H8	1.50	0.75
36:BA:2306:C:H4'	42:BG:136:ARG:NH2	2.01	0.75
47:BO:4:PRO:O	47:BO:5:GLN:HB2	1.87	0.75
52:BT:109:GLU:O	52:BT:112:ARG:HG2	1.86	0.75
3:CC:53:ALA:HB2	3:CC:115:LEU:HG	1.68	0.75
10:CJ:50:ILE:HD13	10:CJ:50:ILE:N	1.99	0.75
12:CL:45:PRO:HD3	12:CL:51:ALA:O	1.87	0.75
14:CN:23:ARG:HA	14:CN:30:ALA:HA	1.69	0.75
26:D0:20:ARG:HD2	26:D0:20:ARG:H	1.51	0.75
36:DA:296:C:O2'	36:DA:297:C:H5'	1.87	0.75
36:DA:2025:C:H2'	36:DA:2026:C:H6	1.50	0.75
36:DA:2287:A:H62	36:DA:2344:U:H3	1.35	0.75
39:DD:66:ASP:OD2	39:DD:69:ARG:HG3	1.85	0.75
39:DD:166:GLN:HA	39:DD:166:GLN:NE2	2.00	0.75
41:DF:32:LEU:O	41:DF:36:VAL:HG23	1.87	0.75
42:DG:63:ILE:HA	42:DG:143:GLU:CD	2.06	0.75
52:DT:50:ILE:HA	52:DT:99:LEU:HD11	1.66	0.75
55:DW:5:ALA:HB2	55:DW:54:ALA:CB	2.17	0.75
1:AA:401:C:H2'	1:AA:402:G:H8	1.51	0.75
1:AA:936:C:H2'	1:AA:937:A:H8	1.51	0.75
1:AA:1468:A:H2'	1:AA:1469:G:O4'	1.86	0.75
17:AQ:5:VAL:HG13	17:AQ:59:ILE:O	1.86	0.75
34:B8:61:LEU:CD1	34:B8:62:LEU:H	1.98	0.75
36:BA:1435:G:H1	36:BA:1557:C:H42	1.33	0.75
36:BA:1473:G:C2	36:BA:1474:C:H1'	2.22	0.75
36:BA:2287:A:H62	36:BA:2344:U:H3	1.33	0.75
36:BA:2338:G:H2'	36:BA:2339:G:H8	1.50	0.75
41:BF:160:ASN:OD1	41:BF:163:VAL:HG23	1.87	0.75
42:BG:21:ARG:NH2	42:BG:22:ARG:HG2	2.01	0.75
55:BW:3:ALA:O	55:BW:106:ILE:HA	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:185:ILE:HG22	2:CB:199:TYR:HB2	1.68	0.75
4:CD:107:ARG:HH21	4:CD:194:LEU:CD1	1.99	0.75
5:CE:105:VAL:H	5:CE:106:PRO:HD2	1.50	0.75
15:CO:39:LEU:HD13	15:CO:56:LEU:HB2	1.69	0.75
31:D5:16:ARG:NH1	31:D5:20:ARG:HH11	1.84	0.75
33:D7:12:ARG:HH21	33:D7:44:PRO:HB3	1.52	0.75
34:D8:61:LEU:HD12	34:D8:62:LEU:H	1.50	0.75
36:DA:736:C:H42	36:DA:760:G:H1	1.34	0.75
37:DB:82:G:H2'	37:DB:83:G:H8	1.52	0.75
42:DG:34:LEU:HD11	42:DG:100:TRP:CZ2	2.22	0.75
6:AF:69:GLU:CD	6:AF:69:GLU:H	1.88	0.75
25:AZ:347:THR:HG22	25:AZ:348:ASP:H	1.51	0.75
33:B7:8:ASN:HD22	33:B7:8:ASN:C	1.89	0.75
36:BA:633:A:H5''	48:BP:77:ARG:HH12	1.49	0.75
36:BA:2110:G:H1	36:BA:2178:C:N4	1.85	0.75
36:BA:2861:G:O2'	36:BA:2862:G:H5'	1.86	0.75
36:BA:2887:U:H2'	36:BA:2888:C:C6	2.19	0.75
42:BG:87:PRO:O	42:BG:88:ILE:HD13	1.86	0.75
48:BP:62:LEU:HD23	48:BP:62:LEU:H	1.49	0.75
50:BR:103:ARG:HH11	50:BR:110:PRO:HD3	1.52	0.75
52:BT:89:VAL:CG1	52:BT:91:ARG:HE	2.00	0.75
52:BT:89:VAL:HG11	52:BT:91:ARG:HE	1.51	0.75
57:BY:13:VAL:HG13	57:BY:14:LEU:N	2.01	0.75
1:CA:584:G:H2'	1:CA:585:G:C8	2.21	0.75
3:CC:150:LYS:HG3	3:CC:169:ALA:HB2	1.69	0.75
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.68	0.75
7:CG:79:ARG:HG3	7:CG:83:ALA:C	2.06	0.75
11:CK:27:ASN:HA	11:CK:56:GLY:HA2	1.67	0.75
36:DA:271:A:C2	36:DA:366:C:H1'	2.20	0.75
36:DA:318:C:O2'	36:DA:319:C:H5'	1.86	0.75
36:DA:1242:A:H5'	36:DA:1243:G:OP2	1.87	0.75
36:DA:2833:G:H3'	36:DA:2834:G:H5'	1.66	0.75
39:DD:79:VAL:HG23	39:DD:115:GLN:O	1.86	0.75
43:DH:92:ILE:C	43:DH:94:TYR:H	1.89	0.75
47:DO:4:PRO:O	47:DO:5:GLN:HB2	1.87	0.75
51:DS:15:ARG:HB2	51:DS:15:ARG:HH11	1.52	0.75
1:AA:219:C:H2'	1:AA:220:G:O4'	1.86	0.75
1:AA:688:G:H2'	1:AA:689:C:H6	1.52	0.75
36:BA:836:G:H2'	36:BA:837:C:C6	2.21	0.75
36:BA:1350:C:H2'	36:BA:1351:C:H6	1.51	0.75
36:BA:1665:A:H2'	36:BA:1666:G:C5'	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2201:C:H2'	36:BA:2202:C:H6	1.52	0.75
36:BA:2542:A:H5'	36:BA:2543:G:OP1	1.86	0.75
38:BC:6:ARG:HG2	38:BC:6:ARG:HH11	1.52	0.75
39:BD:35:LYS:HZ3	39:BD:36:PRO:HD3	1.51	0.75
1:CA:386:C:H2'	1:CA:387:U:C5'	2.17	0.75
8:CH:9:MET:SD	8:CH:32:LYS:HG2	2.26	0.75
36:DA:38:A:H2'	36:DA:39:C:H6	1.51	0.75
36:DA:216:A:H2'	36:DA:217:G:O4'	1.86	0.75
36:DA:1165:U:H2'	36:DA:1166:C:C6	2.22	0.75
36:DA:1899:G:N2	36:DA:1902:C:H41	1.85	0.75
36:DA:2136:C:H42	36:DA:2155:G:H1	1.32	0.75
36:DA:2463:C:O2'	36:DA:2464:C:H5'	1.85	0.75
46:DN:21:LYS:C	46:DN:61:ARG:HB2	2.07	0.75
55:DW:71:VAL:HA	55:DW:107:LEU:HA	1.67	0.75
18:AR:53:ARG:NH2	18:AR:59:SER:HA	2.01	0.75
29:B3:59:VAL:HG12	29:B3:60:GLU:N	1.99	0.75
36:BA:287:C:H2'	36:BA:288:C:C6	2.22	0.75
36:BA:1998:G:O2'	36:BA:1999:C:H5'	1.87	0.75
36:BA:2262:U:H2'	36:BA:2263:C:C5	2.21	0.75
43:BH:130:ARG:HB3	43:BH:130:ARG:NH1	2.02	0.75
46:BN:21:LYS:HE3	46:BN:25:ARG:HB3	1.69	0.75
48:BP:100:LEU:HB3	48:BP:106:LEU:HD13	1.69	0.75
55:BW:71:VAL:HA	55:BW:107:LEU:HA	1.67	0.75
1:CA:8:A:H5'	5:CE:120:THR:O	1.86	0.75
1:CA:1054:C:H6	1:CA:1196:U:C4	2.04	0.75
1:CA:1249:C:H5''	9:CI:70:LYS:NZ	2.02	0.75
1:CA:1512:U:H2'	1:CA:1513:A:C8	2.21	0.75
2:CB:204:ASN:HD21	2:CB:207:ALA:N	1.83	0.75
4:CD:31:CYS:C	4:CD:33:MET:H	1.89	0.75
28:D2:11:GLU:O	28:D2:15:LYS:HG2	1.87	0.75
34:D8:50:LEU:HD12	34:D8:51:ALA:N	2.00	0.75
36:DA:1327:C:H42	36:DA:1647:G:N2	1.85	0.75
40:DE:55:ASN:ND2	40:DE:75:VAL:HG22	2.01	0.75
51:DS:67:ARG:HH21	51:DS:100:ALA:HB3	1.52	0.75
52:DT:89:VAL:HG11	52:DT:91:ARG:HE	1.52	0.75
3:AC:26:LYS:HG3	3:AC:27:LYS:H	1.52	0.74
4:AD:194:LEU:HB3	4:AD:196:LEU:HD13	1.68	0.74
10:AJ:61:GLU:HG3	14:AN:58:LYS:HE2	1.68	0.74
13:AM:52:GLU:HG2	13:AM:55:ARG:HH11	1.51	0.74
25:AZ:313:HIS:HB2	25:AZ:380:LEU:HD12	1.67	0.74
36:BA:458:G:N2	36:BA:469:G:H2'	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1027:A:N3	36:BA:1027:A:H2'	2.02	0.74
36:BA:1268:A:H2'	36:BA:1269:A:O4'	1.87	0.74
36:BA:1949:G:H1	36:BA:1957:C:H42	1.33	0.74
36:BA:2305:A:H61	42:BG:43:LEU:HD13	1.52	0.74
41:BF:5:ALA:HA	41:BF:123:LEU:HD23	1.67	0.74
41:BF:118:ALA:HA	41:BF:123:LEU:HB2	1.69	0.74
42:BG:91:ARG:C	42:BG:91:ARG:HD2	2.08	0.74
47:BO:107:ARG:NH1	52:BT:35:LYS:HD2	2.02	0.74
1:CA:688:G:H2'	1:CA:689:C:H6	1.52	0.74
1:CA:987:G:H2'	1:CA:988:G:H8	1.52	0.74
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.23	0.74
1:CA:1202:G:H4'	14:CN:29:ARG:HD3	1.67	0.74
4:CD:79:PHE:HA	4:CD:93:PHE:CD2	2.22	0.74
10:CJ:50:ILE:H	10:CJ:50:ILE:CD1	2.00	0.74
13:CM:68:GLY:C	13:CM:70:LEU:H	1.90	0.74
14:CN:22:THR:O	14:CN:23:ARG:HB3	1.87	0.74
19:CS:78:ARG:HB2	19:CS:81:ARG:HH11	1.52	0.74
36:DA:1164:G:O2'	36:DA:1165:U:H5'	1.87	0.74
36:DA:2243:U:H2'	36:DA:2244:U:C6	2.22	0.74
37:DB:34:U:H4'	37:DB:35:U:C5	2.21	0.74
43:DH:42:ARG:O	43:DH:43:VAL:HG13	1.87	0.74
58:DZ:28:MET:HA	58:DZ:88:PHE:HB2	1.69	0.74
1:AA:80:G:C3'	1:AA:81:U:H5'	2.17	0.74
1:AA:1320:C:H5''	19:AS:70:LYS:HG3	1.68	0.74
1:AA:1493:A:N1	24:AY:37:YG:H5''	2.01	0.74
24:AY:53:G:H5''	25:AZ:332:THR:HG21	1.68	0.74
31:B5:36:CYS:SG	31:B5:48:GLU:O	2.45	0.74
36:BA:364:C:O2	36:BA:364:C:H2'	1.86	0.74
36:BA:768:G:H2'	36:BA:769:G:H8	1.49	0.74
36:BA:1411:C:H2'	36:BA:1412:A:C8	2.21	0.74
36:BA:2441:C:H2'	36:BA:2442:C:H6	1.51	0.74
41:BF:20:LEU:HD12	41:BF:199:TRP:HH2	1.52	0.74
1:CA:17:U:H2'	1:CA:18:C:H6	1.52	0.74
1:CA:673:G:H5''	6:CF:87:ARG:NH1	2.02	0.74
1:CA:818:G:O2'	1:CA:819:A:H5'	1.87	0.74
2:CB:87:ARG:HE	2:CB:233:SER:CB	2.00	0.74
3:CC:148:GLY:HA3	3:CC:172:ARG:O	1.86	0.74
20:CT:57:ARG:NH1	20:CT:57:ARG:HB2	2.01	0.74
36:DA:272(H):C:C2'	36:DA:272(I):U:H5''	2.17	0.74
36:DA:2108:C:H2'	36:DA:2108:C:O2	1.86	0.74
41:DF:5:ALA:HA	41:DF:123:LEU:HD23	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:46:ALA:HB3	42:DG:88:ILE:HG13	1.69	0.74
42:DG:133:LEU:HD12	42:DG:157:ILE:HB	1.68	0.74
47:DO:111:PHE:O	47:DO:115:VAL:HG23	1.87	0.74
48:DP:100:LEU:HB3	48:DP:106:LEU:HD13	1.67	0.74
6:AF:92:LYS:O	6:AF:94:GLN:HG3	1.88	0.74
9:AI:99:LEU:HB3	9:AI:101:PHE:CD1	2.22	0.74
34:B8:61:LEU:HD13	34:B8:62:LEU:HG	1.67	0.74
36:BA:491:G:O2'	36:BA:492:A:H5'	1.86	0.74
36:BA:898:C:H2'	36:BA:899:A:H5'	1.67	0.74
36:BA:979:G:H8	36:BA:979:G:O5'	1.68	0.74
36:BA:1327:C:N4	36:BA:1647:G:H21	1.84	0.74
36:BA:2108:C:H2'	36:BA:2108:C:O2	1.86	0.74
42:BG:34:LEU:HA	42:BG:161:THR:CG2	2.18	0.74
1:CA:100:C:H2'	1:CA:101:A:C8	2.22	0.74
19:CS:51:VAL:HG12	19:CS:52:TYR:H	1.51	0.74
22:CV:56:C:C1'	42:DG:76:SER:HB2	2.17	0.74
25:CZ:347:THR:HG22	25:CZ:348:ASP:H	1.53	0.74
28:D2:38:GLN:CB	28:D2:44:LEU:HD13	2.13	0.74
36:DA:2840:C:H5''	50:DR:53:HIS:HD2	1.48	0.74
40:DE:38:THR:HG22	40:DE:40:GLU:H	1.52	0.74
55:DW:11:ARG:C	55:DW:11:ARG:HE	1.89	0.74
1:AA:450:G:H5''	1:AA:451:A:H3'	1.69	0.74
1:AA:627:G:H2'	1:AA:628:G:C8	2.21	0.74
1:AA:711:G:H2'	1:AA:712:A:C8	2.23	0.74
29:B3:7:LYS:O	29:B3:54:VAL:HA	1.87	0.74
32:B6:7:ILE:HG22	32:B6:7:ILE:O	1.88	0.74
35:B9:4:ARG:HB2	36:BA:2466:C:OP1	1.87	0.74
36:BA:508:G:H5'	36:BA:509:C:OP1	1.88	0.74
36:BA:2144:U:H2'	36:BA:2146:C:H5	1.51	0.74
36:BA:2402:C:H2'	36:BA:2403:C:H5'	1.68	0.74
39:BD:136:ILE:HD12	39:BD:136:ILE:N	2.02	0.74
39:BD:248:SER:HB2	39:BD:249:PRO:HD2	1.69	0.74
43:BH:44:VAL:HG12	43:BH:45:VAL:N	2.02	0.74
43:BH:118:PRO:HG3	43:BH:121:ILE:HD12	1.68	0.74
46:BN:21:LYS:C	46:BN:61:ARG:HB2	2.08	0.74
1:CA:1003:G:H2'	1:CA:1004:A:C4'	2.16	0.74
12:CL:25:PRO:C	12:CL:27:LEU:H	1.88	0.74
16:CP:49:LEU:HD12	16:CP:50:LYS:N	2.03	0.74
22:CW:17:C:H41	36:DA:2110:G:H21	1.34	0.74
24:CY:6:U:C2'	24:CY:7:A:H5''	2.17	0.74
34:D8:61:LEU:HD13	34:D8:62:LEU:HG	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:116:C:H2'	36:DA:117:G:C8	2.22	0.74
36:DA:271(F):C:H2'	36:DA:271(G):C:O4'	1.88	0.74
49:DQ:32:TYR:CE2	49:DQ:111:GLU:HG3	2.21	0.74
58:DZ:77:ASP:O	58:DZ:78:LYS:HB2	1.87	0.74
10:AJ:8:LEU:HG	10:AJ:96:ILE:HG22	1.70	0.74
10:AJ:49:VAL:CG2	14:AN:41:ARG:HB2	2.17	0.74
13:AM:120:LYS:O	13:AM:121:LYS:HG3	1.88	0.74
36:BA:271(F):C:H2'	36:BA:271(G):C:O4'	1.87	0.74
36:BA:2570:G:H2'	36:BA:2571:C:H6	1.53	0.74
39:BD:35:LYS:HD2	39:BD:35:LYS:C	2.06	0.74
40:BE:111:ARG:HA	50:BR:2:ARG:CG	2.16	0.74
42:BG:140:ILE:HD12	42:BG:141:PHE:N	2.03	0.74
54:BV:22:VAL:HG22	54:BV:92:THR:O	1.87	0.74
1:CA:627:G:H2'	1:CA:628:G:C8	2.22	0.74
2:CB:172:ILE:HD12	2:CB:172:ILE:H	1.52	0.74
9:CI:9:ARG:HB2	9:CI:104:ARG:NH1	2.01	0.74
13:CM:57:ARG:HG2	13:CM:61:GLU:HB2	1.68	0.74
22:CW:74:C:H5'	22:CW:75:C:OP2	1.88	0.74
27:D1:50:ARG:NH2	36:DA:2200:C:H5'	2.02	0.74
36:DA:234:C:H2'	36:DA:235:U:H6	1.50	0.74
36:DA:991:C:H5'	36:DA:991:C:H6	1.51	0.74
37:DB:18:G:H2'	37:DB:19:G:O4'	1.87	0.74
42:DG:46:ALA:HB3	42:DG:88:ILE:CG1	2.18	0.74
53:DU:92:ARG:HD2	54:DV:11:GLN:CG	2.17	0.74
1:AA:254:G:N2	17:AQ:16:GLN:HE22	1.85	0.74
1:AA:473:G:H2'	1:AA:474:G:C8	2.23	0.74
1:AA:734:G:O2'	1:AA:735:C:H5'	1.87	0.74
1:AA:1016:A:H2'	1:AA:1017:G:O4'	1.86	0.74
1:AA:1154:G:H2'	1:AA:1155:G:C8	2.20	0.74
2:AB:17:PHE:O	2:AB:17:PHE:HD2	1.69	0.74
17:AQ:99:SER:C	17:AQ:100:LYS:HG3	2.08	0.74
25:AZ:146:LEU:N	25:AZ:149:LEU:HB3	2.03	0.74
27:B1:71:TYR:O	27:B1:74:VAL:HB	1.87	0.74
36:BA:106:C:H2'	36:BA:107:C:H6	1.52	0.74
36:BA:1051:G:OP1	36:BA:2752:C:H1'	1.87	0.74
36:BA:1279:G:H1	36:BA:1291:C:H42	1.35	0.74
36:BA:1484:G:H2'	36:BA:1485:G:C5'	2.17	0.74
36:BA:2007:C:O2'	36:BA:2008:C:H5'	1.88	0.74
36:BA:2359:C:C2'	36:BA:2360:A:H5'	2.18	0.74
36:BA:2827:C:H2'	36:BA:2828:C:C6	2.23	0.74
47:BO:7:TYR:HE1	47:BO:20:MET:HE3	1.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:32:GLY:HA2	50:BR:116:LEU:HG	1.70	0.74
1:CA:1047:G:H1	1:CA:1210:C:H42	1.32	0.74
2:CB:17:PHE:O	2:CB:17:PHE:HD2	1.70	0.74
29:D3:11:SER:HB3	36:DA:988:A:P	2.27	0.74
36:DA:827:U:H2'	36:DA:2068:U:O2	1.87	0.74
36:DA:862:G:N3	36:DA:863:A:H1'	2.01	0.74
36:DA:898:C:H2'	36:DA:899:A:H5'	1.69	0.74
36:DA:904:C:H2'	36:DA:905:U:C6	2.22	0.74
36:DA:1208:C:H2'	36:DA:1209:G:H8	1.52	0.74
37:DB:81:G:H2'	37:DB:82:G:H5'	1.70	0.74
50:DR:13:HIS:O	50:DR:17:ARG:HB2	1.88	0.74
50:DR:32:GLY:HA2	50:DR:116:LEU:HG	1.70	0.74
50:DR:96:ARG:NH1	50:DR:117:VAL:HG23	2.01	0.74
53:DU:88:ILE:C	53:DU:90:VAL:H	1.91	0.74
1:AA:1106:G:O2'	1:AA:1107:C:H5'	1.88	0.74
14:AN:7:ILE:O	14:AN:11:LYS:HG3	1.88	0.74
22:AV:68:C:C3'	22:AV:69:G:H5''	2.17	0.74
36:BA:733:G:H8	36:BA:733:G:O5'	1.71	0.74
36:BA:1335:U:H2'	36:BA:1336:A:C8	2.22	0.74
37:BB:18:G:H2'	37:BB:19:G:O4'	1.87	0.74
39:BD:139:GLY:H	39:BD:165:ILE:HB	1.53	0.74
39:BD:186:HIS:HB3	39:BD:189:CYS:SG	2.26	0.74
42:BG:60:LEU:HD22	42:BG:63:ILE:HD11	1.69	0.74
43:BH:63:SER:O	43:BH:67:LEU:HB2	1.87	0.74
1:CA:607:A:O2'	1:CA:608:A:H5'	1.87	0.74
1:CA:1292:U:H2'	1:CA:1293:G:H8	1.53	0.74
8:CH:17:THR:HB	8:CH:78:GLN:OE1	1.86	0.74
10:CJ:80:LYS:HB3	10:CJ:80:LYS:NZ	2.03	0.74
36:DA:1290:C:H2'	36:DA:1291:C:C6	2.23	0.74
36:DA:1385:G:H4'	36:DA:1386:C:OP1	1.85	0.74
36:DA:2389:G:H5''	36:DA:2390:U:H5'	1.69	0.74
38:DC:99:ILE:HD12	38:DC:102:LYS:NZ	2.03	0.74
39:DD:63:ARG:CG	39:DD:63:ARG:HH11	2.00	0.74
39:DD:64:ILE:HG13	39:DD:65:ILE:N	2.02	0.74
40:DE:47:VAL:HG21	40:DE:85:ASN:HA	1.69	0.74
57:DY:86:ARG:HG2	57:DY:87:LYS:N	2.03	0.74
2:AB:69:LEU:HD12	2:AB:71:VAL:HG23	1.67	0.74
3:AC:58:GLU:N	3:AC:65:ALA:HB3	2.03	0.74
13:AM:94:ARG:HG2	19:AS:82:GLY:N	2.03	0.74
36:BA:272(D):G:H2'	36:BA:272(E):G:H8	1.52	0.74
36:BA:1498:C:C3'	36:BA:1499:C:H5''	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:94:VAL:CG1	38:BC:95:GLY:H	1.94	0.74
40:BE:52:LEU:HB2	40:BE:76:ARG:HB2	1.69	0.74
41:BF:2:LYS:HG3	41:BF:25:PRO:HG2	1.69	0.74
58:BZ:163:LEU:HD21	58:BZ:165:VAL:HG23	1.68	0.74
1:CA:936:C:H2'	1:CA:937:A:H8	1.51	0.74
1:CA:1314:C:OP2	19:CS:6:LYS:HG3	1.87	0.74
3:CC:181:ASN:HD21	3:CC:204:LEU:HD12	1.52	0.74
6:CF:60:PHE:CZ	18:CR:78:LEU:HD21	2.22	0.74
6:CF:69:GLU:CD	6:CF:69:GLU:H	1.91	0.74
7:CG:24:THR:HA	7:CG:27:ILE:CD1	2.18	0.74
11:CK:17:GLY:HA3	11:CK:77:MET:SD	2.27	0.74
12:CL:113:ARG:CB	12:CL:122:THR:HG21	2.17	0.74
20:CT:62:LEU:O	20:CT:62:LEU:HD23	1.87	0.74
22:CV:74:C:N4	36:DA:2252:G:H1	1.86	0.74
27:D1:40:ARG:HH22	27:D1:42:GLN:HE21	1.33	0.74
27:D1:70:VAL:O	27:D1:73:LEU:HB2	1.88	0.74
36:DA:139(A):G:N2	56:DX:44:GLU:OE1	2.20	0.74
36:DA:608:A:H2'	36:DA:609:A:C8	2.23	0.74
36:DA:768:G:H2'	36:DA:769:G:C8	2.23	0.74
36:DA:904:C:H4'	58:DZ:169:GLU:OE1	1.86	0.74
36:DA:1268:A:H2'	36:DA:1269:A:O4'	1.87	0.74
36:DA:2040:C:H2'	36:DA:2041:U:C6	2.23	0.74
38:DC:75:LEU:O	38:DC:114:VAL:HG22	1.88	0.74
41:DF:84:VAL:HG12	41:DF:85:GLY:N	2.03	0.74
42:DG:169:ALA:O	42:DG:173:LEU:HG	1.88	0.74
50:DR:60:LEU:O	50:DR:63:ARG:HB2	1.88	0.74
56:DX:44:GLU:OE2	56:DX:50:LYS:HG3	1.87	0.74
57:DY:37:VAL:O	57:DY:38:ILE:HB	1.87	0.74
57:DY:73:ARG:HE	57:DY:73:ARG:HA	1.52	0.74
58:DZ:153:SER:H	58:DZ:167:PRO:HB2	1.52	0.74
1:AA:167:G:H2'	1:AA:168:G:H8	1.53	0.74
1:AA:373:A:O2'	1:AA:374:A:H5'	1.88	0.74
3:AC:43:LEU:O	3:AC:47:LEU:HB2	1.87	0.74
4:AD:88:VAL:HG12	4:AD:90:GLY:H	1.53	0.74
36:BA:1092:C:H42	36:BA:1100:C:N4	1.83	0.74
39:BD:129:ASN:O	39:BD:193:VAL:HG12	1.88	0.74
46:BN:89:LYS:O	46:BN:93:THR:HG22	1.88	0.74
47:BO:76:ALA:HB3	52:BT:75:ILE:HD13	1.70	0.74
54:BV:98:GLU:OE2	54:BV:100:ARG:HD3	1.88	0.74
1:CA:1512:U:H3	1:CA:1523:G:H1	1.35	0.74
3:CC:70:VAL:HG12	3:CC:71:ALA:N	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:14:ARG:HG3	8:CH:83:ILE:CG2	2.17	0.74
12:CL:86:ARG:HG2	12:CL:87:GLY:H	1.52	0.74
24:CY:40:G:H2'	24:CY:41:G:C5'	2.14	0.74
36:DA:287:C:H2'	36:DA:288:C:C6	2.22	0.74
36:DA:628:G:H2'	36:DA:629:G:H5''	1.68	0.74
36:DA:664:C:O2'	36:DA:665:C:H5'	1.88	0.74
36:DA:2157:G:O2'	36:DA:2158:A:H5'	1.87	0.74
36:DA:2854:G:H2'	36:DA:2855:C:C6	2.23	0.74
39:DD:129:ASN:O	39:DD:193:VAL:HG12	1.86	0.74
1:AA:255:G:H1'	17:AQ:16:GLN:NE2	2.03	0.74
1:AA:575:G:OP1	1:AA:575:G:H4'	1.88	0.74
1:AA:1396:A:H2	5:AE:19:MET:HG3	1.53	0.74
11:AK:38:ASN:N	11:AK:38:ASN:HD22	1.83	0.74
32:B6:36:LEU:HD12	32:B6:50:ARG:CZ	2.17	0.74
36:BA:862:G:N3	36:BA:863:A:H1'	2.03	0.74
36:BA:2010:G:OP1	55:BW:41:LYS:HD3	1.87	0.74
42:BG:5:VAL:HG12	42:BG:6:ALA:H	1.53	0.74
47:BO:111:PHE:O	47:BO:115:VAL:HG23	1.87	0.74
51:BS:106:ARG:HD2	51:BS:107:GLU:N	2.03	0.74
52:BT:64:ARG:HB2	52:BT:73:GLU:HG2	1.68	0.74
1:CA:552:U:H2'	1:CA:553:A:H8	1.53	0.74
1:CA:574:A:N3	1:CA:883:C:H1'	2.03	0.74
1:CA:797:C:OP1	11:CK:124:LYS:HE3	1.86	0.74
1:CA:953:G:H2'	1:CA:954:G:O4'	1.85	0.74
3:CC:30:ARG:HG3	14:CN:37:PHE:O	1.88	0.74
6:CF:37:VAL:HG12	6:CF:38:GLU:N	2.03	0.74
13:CM:66:LEU:HA	13:CM:70:LEU:CD1	2.17	0.74
14:CN:59:ALA:HB1	14:CN:61:TRP:HZ3	1.52	0.74
17:CQ:99:SER:C	17:CQ:100:LYS:HG3	2.07	0.74
24:CY:30:C:O2	24:CY:30:C:H2'	1.88	0.74
25:CZ:339:ARG:NE	25:CZ:352:VAL:HG22	2.03	0.74
36:DA:729:G:N7	39:DD:208:LYS:HB2	2.03	0.74
36:DA:1013:C:O2'	36:DA:1014:U:H5'	1.88	0.74
36:DA:2201:C:H2'	36:DA:2202:C:H6	1.51	0.74
40:DE:57:LYS:HE3	40:DE:57:LYS:CA	2.09	0.74
40:DE:77:ILE:HG22	40:DE:78:LEU:N	2.02	0.74
43:DH:102:ALA:HA	43:DH:117:PRO:HD3	1.69	0.74
6:AF:60:PHE:CZ	18:AR:78:LEU:HD21	2.22	0.73
22:AW:17:C:H41	36:BA:2110:G:H21	1.36	0.73
25:AZ:252:GLU:CD	25:AZ:264:ARG:HD2	2.07	0.73
27:B1:7:ILE:HG22	27:B1:8:SER:N	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:61:LEU:HD12	34:B8:62:LEU:H	1.53	0.73
36:BA:271(E):U:H2'	36:BA:271(F):C:C6	2.22	0.73
36:BA:2752:C:H2'	36:BA:2752:C:O2	1.88	0.73
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.23	0.73
5:CE:11:ILE:HD12	5:CE:31:LEU:CD1	2.17	0.73
6:CF:92:LYS:O	6:CF:94:GLN:HG3	1.88	0.73
10:CJ:42:THR:HG23	10:CJ:68:HIS:HA	1.70	0.73
22:CW:57:G:H2'	22:CW:58:A:H5'	1.70	0.73
28:D2:38:GLN:CB	28:D2:44:LEU:HD22	2.18	0.73
32:D6:52:VAL:HG13	32:D6:53:LYS:N	2.02	0.73
34:D8:3:LYS:HD3	36:DA:242:G:O5'	1.88	0.73
34:D8:24:ALA:HA	34:D8:46:ARG:HH11	1.51	0.73
36:DA:487:C:H1'	55:DW:53:SER:HA	1.69	0.73
39:DD:70:TRP:CH2	39:DD:150:LYS:HA	2.23	0.73
39:DD:270:ILE:O	39:DD:270:ILE:HD12	1.87	0.73
41:DF:160:ASN:OD1	41:DF:163:VAL:HG23	1.85	0.73
49:DQ:109:VAL:HG12	49:DQ:110:THR:N	2.03	0.73
1:AA:1251:A:H4'	9:AI:12:GLU:OE1	1.87	0.73
27:B1:3:LYS:HD3	36:BA:1364:G:C8	2.23	0.73
32:B6:52:VAL:HG13	32:B6:53:LYS:N	2.02	0.73
36:BA:1484:G:C3'	36:BA:1485:G:H5''	2.17	0.73
40:BE:55:ASN:ND2	40:BE:75:VAL:HG22	2.02	0.73
41:BF:29:ASN:HD22	41:BF:32:LEU:CB	1.99	0.73
42:BG:67:LYS:N	42:BG:67:LYS:CD	2.49	0.73
43:BH:92:ILE:C	43:BH:94:TYR:H	1.90	0.73
1:CA:22:G:H4'	1:CA:885:G:C8	2.23	0.73
1:CA:105:G:H2'	1:CA:106:C:C6	2.23	0.73
1:CA:684:A:H1'	11:CK:39:PRO:HD2	1.68	0.73
2:CB:204:ASN:HD21	2:CB:207:ALA:H	1.34	0.73
27:D1:58:ILE:CG1	27:D1:59:THR:H	2.00	0.73
36:DA:1494:A:H2'	36:DA:1495:A:C5'	2.17	0.73
36:DA:2150:U:H2'	36:DA:2151:G:C8	2.22	0.73
37:DB:21:G:H2'	37:DB:22:U:O4'	1.88	0.73
4:AD:107:ARG:HH21	4:AD:194:LEU:CD1	2.01	0.73
15:AO:10:LYS:HE3	15:AO:10:LYS:C	2.09	0.73
32:B6:48:VAL:HG23	32:B6:49:HIS:N	2.04	0.73
36:BA:145:G:C3'	36:BA:146:G:H5''	2.18	0.73
36:BA:1058:G:C2'	36:BA:1059:G:H5''	2.18	0.73
36:BA:1092:C:N4	36:BA:1100:C:H42	1.82	0.73
36:BA:1498:C:C2'	36:BA:1499:C:H5''	2.18	0.73
36:BA:1654:A:OP1	50:BR:2:ARG:HA	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:141:PHE:HB2	42:BG:144:ILE:HG22	1.70	0.73
49:BQ:6:ARG:O	49:BQ:7:MET:HG3	1.87	0.73
51:BS:13:ARG:HG3	51:BS:14:VAL:N	2.00	0.73
1:CA:614:A:O2'	1:CA:615:C:H5'	1.88	0.73
28:D2:53:LEU:HA	28:D2:56:GLN:HB2	1.68	0.73
29:D3:1:MET:SD	29:D3:40:THR:HG22	2.28	0.73
36:DA:1901:A:O2'	36:DA:1902:C:H5'	1.88	0.73
36:DA:2681:C:H6	36:DA:2683:C:H41	1.34	0.73
41:DF:57:VAL:HG12	41:DF:58:ALA:N	2.03	0.73
57:DY:13:VAL:HG13	57:DY:14:LEU:N	2.03	0.73
58:DZ:51:ALA:HA	58:DZ:55:HIS:CD2	2.23	0.73
1:AA:473:G:H5''	16:AP:81:ARG:CZ	2.18	0.73
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.23	0.73
2:AB:169:LYS:HB3	2:AB:170:GLU:OE2	1.89	0.73
12:AL:83:VAL:HG11	12:AL:100:ILE:HG12	1.71	0.73
20:AT:14:LYS:O	20:AT:18:GLN:HB2	1.88	0.73
22:AV:74:C:N4	36:BA:2252:G:H1	1.86	0.73
26:B0:43:THR:HG22	36:BA:2331:G:O2'	1.87	0.73
36:BA:145:G:C2'	36:BA:146:G:H5''	2.18	0.73
36:BA:814:C:O2'	36:BA:815:C:H5'	1.88	0.73
36:BA:1518:U:H2'	36:BA:1519:G:O4'	1.87	0.73
36:BA:2036:C:H6	36:BA:2036:C:H5'	1.52	0.73
36:BA:2443:C:O2'	36:BA:2444:G:H5'	1.87	0.73
39:BD:166:GLN:HA	39:BD:166:GLN:NE2	2.02	0.73
41:BF:84:VAL:HG12	41:BF:85:GLY:N	2.03	0.73
42:BG:51:ARG:HE	42:BG:51:ARG:HA	1.52	0.73
53:BU:92:ARG:HD2	54:BV:11:GLN:CG	2.18	0.73
55:BW:11:ARG:C	55:BW:11:ARG:HE	1.91	0.73
56:BX:65:ARG:HG2	56:BX:66:LEU:N	2.01	0.73
1:CA:688:G:H2'	1:CA:689:C:C6	2.24	0.73
2:CB:54:THR:HG22	2:CB:58:ILE:HD11	1.69	0.73
7:CG:69:VAL:C	7:CG:138:LYS:HD2	2.08	0.73
14:CN:13:THR:N	14:CN:14:PRO:CD	2.51	0.73
25:CZ:277:LEU:CD1	25:CZ:280:GLY:H	2.01	0.73
35:D9:30:PRO:HB2	36:DA:2527:C:H4'	1.69	0.73
36:DA:761:A:H8	36:DA:761:A:O5'	1.71	0.73
36:DA:996:A:O2'	53:DU:92:ARG:HG3	1.88	0.73
36:DA:2359:C:C2'	36:DA:2360:A:H5'	2.18	0.73
36:DA:2781:A:H5''	36:DA:2782:G:H5'	1.68	0.73
38:DC:6:ARG:HH11	38:DC:6:ARG:HG2	1.51	0.73
42:DG:62:LEU:HD12	42:DG:62:LEU:H	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:63:ILE:HG13	42:DG:64:THR:H	1.53	0.73
43:DH:63:SER:O	43:DH:67:LEU:HB2	1.88	0.73
54:DV:38:LEU:C	54:DV:39:LEU:HD13	2.09	0.73
1:AA:1512:U:H2'	1:AA:1513:A:C8	2.18	0.73
2:AB:21:ARG:NE	2:AB:39:ILE:HG12	2.04	0.73
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.24	0.73
29:B3:1:MET:SD	29:B3:40:THR:HG22	2.28	0.73
29:B3:11:SER:HB3	36:BA:988:A:P	2.28	0.73
36:BA:1991:U:H2'	36:BA:1992:G:H5''	1.68	0.73
36:BA:2179:C:H5''	36:BA:2180:U:OP1	1.89	0.73
40:BE:111:ARG:HA	50:BR:2:ARG:HG2	1.69	0.73
42:BG:135:LEU:O	42:BG:154:GLY:HA3	1.87	0.73
48:BP:85:LEU:HD23	48:BP:115:LEU:O	1.89	0.73
48:BP:97:PRO:O	48:BP:98:GLU:HB3	1.88	0.73
51:BS:49:VAL:HG12	51:BS:50:SER:N	2.01	0.73
1:CA:125:U:H2'	1:CA:126:G:C8	2.23	0.73
1:CA:373:A:O2'	1:CA:374:A:H5'	1.89	0.73
1:CA:1425:U:H2'	1:CA:1426:C:C6	2.22	0.73
22:CW:1:G:N3	22:CW:1:G:H2'	2.02	0.73
26:D0:43:THR:HG22	36:DA:2331:G:O2'	1.89	0.73
36:DA:143(A):C:H4'	56:DX:38:GLU:OE1	1.88	0.73
36:DA:723:G:H2'	36:DA:724:U:C6	2.23	0.73
36:DA:903:C:H2'	36:DA:904:C:C6	2.24	0.73
36:DA:2029:G:H5''	36:DA:2030:A:OP2	1.88	0.73
36:DA:2306:C:H4'	42:DG:136:ARG:HH12	1.54	0.73
51:DS:56:LEU:HD22	51:DS:58:LEU:HD22	1.71	0.73
1:AA:1060:C:O2'	1:AA:1061:G:H5'	1.87	0.73
1:AA:1512:U:H3	1:AA:1523:G:H1	1.37	0.73
2:AB:18:GLY:N	2:AB:42:ILE:HG22	2.04	0.73
3:AC:53:ALA:HB2	3:AC:115:LEU:HG	1.69	0.73
3:AC:150:LYS:HG3	3:AC:169:ALA:HB2	1.70	0.73
5:AE:94:ALA:HB3	5:AE:117:ASP:O	1.88	0.73
13:AM:6:GLY:C	13:AM:8:GLU:H	1.91	0.73
13:AM:68:GLY:C	13:AM:70:LEU:H	1.90	0.73
13:AM:97:PRO:HA	13:AM:110:ARG:CD	2.17	0.73
19:AS:63:THR:HG22	19:AS:66:MET:HG2	1.71	0.73
25:AZ:271:GLU:O	25:AZ:286:VAL:HG23	1.88	0.73
35:B9:10:ILE:H	35:B9:10:ILE:CD1	1.97	0.73
36:BA:723:G:H2'	36:BA:724:U:C6	2.24	0.73
36:BA:1667:G:OP2	36:BA:1667:G:H8	1.72	0.73
36:BA:2053:G:N2	36:BA:2054:A:H1'	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:136:ILE:HG22	39:BD:140:THR:OG1	1.89	0.73
51:BS:101:LEU:HD12	51:BS:101:LEU:O	1.89	0.73
52:BT:58:ASN:HD22	52:BT:58:ASN:N	1.84	0.73
1:CA:219:C:H2'	1:CA:220:G:O4'	1.89	0.73
1:CA:321:A:H4'	1:CA:1436:U:H5'	1.71	0.73
1:CA:401:C:H2'	1:CA:402:G:H8	1.53	0.73
1:CA:1333:A:H2'	1:CA:1334:G:O4'	1.87	0.73
25:CZ:338:TYR:CD2	25:CZ:340:PRO:HD3	2.24	0.73
31:D5:42:PRO:HB2	36:DA:2815:C:O2'	1.89	0.73
36:DA:1539:G:C2	36:DA:1540:U:H1'	2.23	0.73
36:DA:2048:G:H1	36:DA:2620:C:H42	1.36	0.73
42:DG:7:LEU:HD13	42:DG:100:TRP:CE3	2.23	0.73
42:DG:119:GLY:HA3	42:DG:181:ARG:CA	2.18	0.73
50:DR:103:ARG:HH11	50:DR:110:PRO:HD3	1.53	0.73
55:DW:6:ILE:HG12	55:DW:104:THR:HG22	1.70	0.73
1:AA:601:C:H2'	1:AA:602:A:H8	1.53	0.73
1:AA:1118:C:H1'	1:AA:1179:A:C5	2.23	0.73
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.23	0.73
1:AA:1380:U:H4'	1:AA:1381:U:O5'	1.88	0.73
4:AD:114:ARG:HH11	4:AD:114:ARG:HG3	1.52	0.73
7:AG:72:ARG:CG	7:AG:73:MET:HG3	2.18	0.73
25:AZ:277:LEU:CD1	25:AZ:280:GLY:H	2.00	0.73
36:BA:626:U:N3	48:BP:105:LEU:HG	2.04	0.73
36:BA:1170:G:N2	36:BA:1179:C:H42	1.87	0.73
36:BA:1568:G:H5''	39:BD:61:LEU:HD23	1.69	0.73
37:BB:17:C:N4	37:BB:68:C:H42	1.87	0.73
38:BC:4:GLY:O	38:BC:8:ARG:HG3	1.88	0.73
39:BD:8:PRO:HB3	39:BD:14:ARG:CB	2.18	0.73
42:BG:37:VAL:HG23	42:BG:99:MET:HG3	1.70	0.73
48:BP:62:LEU:N	48:BP:62:LEU:CD2	2.52	0.73
1:CA:819:A:H4'	1:CA:820:U:OP2	1.89	0.73
1:CA:993:G:H22	1:CA:1046:A:H1'	1.53	0.73
3:CC:52:LEU:H	3:CC:52:LEU:HD23	1.52	0.73
13:CM:94:ARG:HG2	19:CS:82:GLY:N	2.04	0.73
22:CV:59:U:O2'	22:CV:60:U:H6	1.68	0.73
25:CZ:234:ARG:HD2	25:CZ:289:LEU:HD22	1.70	0.73
27:D1:49:VAL:HG21	27:D1:71:TYR:HE1	1.54	0.73
36:DA:106:C:H2'	36:DA:107:C:C6	2.23	0.73
36:DA:1095:A:H2'	36:DA:1096:A:C8	2.24	0.73
36:DA:1690:A:H2'	36:DA:1691:C:H5'	1.69	0.73
54:DV:28:GLU:O	54:DV:61:VAL:HG21	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:306:G:O2'	1:AA:307:C:H5'	1.89	0.73
1:AA:1520:G:H2'	1:AA:1521:G:C8	2.23	0.73
3:AC:148:GLY:HA3	3:AC:172:ARG:O	1.88	0.73
11:AK:17:GLY:HA3	11:AK:77:MET:SD	2.29	0.73
34:B8:28:GLY:HA2	34:B8:32:LEU:CD2	2.18	0.73
34:B8:50:LEU:C	34:B8:53:PRO:HD2	2.08	0.73
36:BA:673:C:O2'	36:BA:674:G:H5'	1.89	0.73
36:BA:1327:C:H42	36:BA:1647:G:N2	1.86	0.73
36:BA:1708:C:H2'	36:BA:1709:U:C6	2.24	0.73
36:BA:1750:G:O2'	36:BA:1751:C:H5'	1.89	0.73
36:BA:2502:G:C5'	36:BA:2503:A:H5''	2.14	0.73
2:CB:215:LEU:O	2:CB:219:VAL:HG23	1.88	0.73
7:CG:36:LYS:HA	7:CG:39:ALA:HB3	1.71	0.73
11:CK:124:LYS:HZ2	11:CK:124:LYS:HB2	1.52	0.73
12:CL:82:VAL:HG12	12:CL:105:TYR:HD1	1.54	0.73
22:CV:21:A:O2'	22:CV:22:G:H5''	1.89	0.73
30:D4:42:PHE:O	30:D4:42:PHE:CG	2.42	0.73
36:DA:271(E):U:H2'	36:DA:271(F):C:C6	2.24	0.73
36:DA:711:G:H1	36:DA:720:C:H42	1.35	0.73
36:DA:979:G:H8	36:DA:979:G:O5'	1.72	0.73
36:DA:1099:G:H2'	36:DA:1100:C:C6	2.23	0.73
39:DD:81:ALA:HA	39:DD:113:VAL:CG2	2.19	0.73
40:DE:111:ARG:HA	50:DR:2:ARG:CG	2.19	0.73
42:DG:135:LEU:O	42:DG:154:GLY:HA3	1.89	0.73
52:DT:85:LYS:NZ	52:DT:85:LYS:HB3	2.04	0.73
1:AA:851:G:H2'	1:AA:852:G:H8	1.53	0.73
1:AA:1047:G:H1	1:AA:1210:C:H42	1.35	0.73
1:AA:1525:G:O2'	1:AA:1526:G:H5'	1.89	0.73
2:AB:87:ARG:HE	2:AB:233:SER:CB	2.00	0.73
22:AW:74:C:H5'	22:AW:75:C:OP2	1.89	0.73
25:AZ:338:TYR:CD2	25:AZ:340:PRO:HD3	2.24	0.73
36:BA:811:U:OP2	48:BP:24:GLY:HA2	1.88	0.73
36:BA:1165:U:H2'	36:BA:1166:C:C6	2.23	0.73
36:BA:1822:G:H2'	36:BA:1823:G:H8	1.54	0.73
43:BH:102:ALA:HA	43:BH:117:PRO:HD3	1.70	0.73
57:BY:37:VAL:O	57:BY:38:ILE:HB	1.87	0.73
1:CA:734:G:O2'	1:CA:735:C:H5'	1.89	0.73
1:CA:1442(A):G:H5''	52:DT:118:ARG:NH1	2.04	0.73
4:CD:15:GLU:O	4:CD:17:VAL:HG23	1.88	0.73
7:CG:69:VAL:O	7:CG:69:VAL:HG13	1.88	0.73
27:D1:80:LEU:HD23	27:D1:81:LYS:H	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:59:ARG:O	28:D2:63:VAL:HG23	1.89	0.73
32:D6:36:LEU:HB2	32:D6:50:ARG:NH1	2.04	0.73
36:DA:2101:G:H2'	36:DA:2102:U:H5''	1.71	0.73
43:DH:118:PRO:HG3	43:DH:121:ILE:HD12	1.70	0.73
48:DP:97:PRO:C	48:DP:99:LEU:H	1.92	0.73
1:AA:8:A:OP2	1:AA:8:A:H2'	1.89	0.73
1:AA:818:G:O2'	1:AA:819:A:H5'	1.89	0.73
2:AB:54:THR:HG22	2:AB:58:ILE:HD11	1.70	0.73
14:AN:59:ALA:HB1	14:AN:61:TRP:HZ3	1.54	0.73
20:AT:65:LYS:HA	20:AT:68:LYS:HG3	1.71	0.73
24:AY:9:A:N6	24:AY:23:A:H62	1.87	0.73
33:B7:21:ARG:HG2	33:B7:21:ARG:NH1	2.02	0.73
36:BA:449:A:C4'	53:BU:3:ARG:HH21	2.02	0.73
36:BA:608:A:H2'	36:BA:609:A:C8	2.23	0.73
36:BA:1175:U:O3'	36:BA:1176:G:H3'	1.89	0.73
36:BA:2040:C:H2'	36:BA:2041:U:C6	2.24	0.73
36:BA:2240:C:O2'	36:BA:2241:A:H5'	1.88	0.73
36:BA:2854:G:H2'	36:BA:2855:C:C6	2.23	0.73
49:BQ:39:PRO:HG3	49:BQ:99:PRO:HD2	1.70	0.73
51:BS:67:ARG:HH21	51:BS:100:ALA:CB	2.02	0.73
27:D1:3:LYS:HG2	27:D1:4:VAL:HG12	1.70	0.73
36:DA:2553:G:H2'	36:DA:2554:U:O4'	1.89	0.73
37:DB:34:U:H4'	37:DB:35:U:H5	1.52	0.73
39:DD:8:PRO:HB3	39:DD:14:ARG:CB	2.19	0.73
39:DD:131:LEU:HD13	39:DD:136:ILE:HD11	1.69	0.73
40:DE:4:ILE:HG13	40:DE:31:CYS:SG	2.29	0.73
58:DZ:70:LEU:HD21	58:DZ:91:LEU:CD2	2.18	0.73
1:AA:189(B):C:H2'	1:AA:189(C):C:C6	2.24	0.72
1:AA:1349:A:OP1	9:AI:120:ARG:HB2	1.89	0.72
25:AZ:339:ARG:NE	25:AZ:352:VAL:HG22	2.03	0.72
36:BA:197:A:H5'	36:BA:197:A:C8	2.24	0.72
36:BA:958:U:H5''	49:BQ:14:ARG:HD3	1.70	0.72
36:BA:1658:C:H2'	36:BA:1659:U:C6	2.23	0.72
36:BA:2110:G:H1	36:BA:2178:C:H41	1.36	0.72
36:BA:2262:U:H2'	36:BA:2263:C:H6	1.53	0.72
36:BA:2282:G:H21	36:BA:2390:U:H3	1.35	0.72
40:BE:77:ILE:HG22	40:BE:78:LEU:N	2.03	0.72
41:BF:24:LEU:CB	41:BF:25:PRO:HD2	2.18	0.72
46:BN:3:THR:HG22	46:BN:4:TYR:N	2.04	0.72
46:BN:40:PRO:CB	53:BU:68:ALA:HB2	2.19	0.72
53:BU:95:LEU:HD12	54:BV:11:GLN:HG3	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:601:C:H2'	1:CA:602:A:H8	1.53	0.72
1:CA:1190:G:OP1	3:CC:4:LYS:HA	1.88	0.72
9:CI:126:SER:O	9:CI:127:LYS:HB3	1.89	0.72
10:CJ:71:LEU:HD12	10:CJ:72:VAL:N	2.03	0.72
27:D1:95:LEU:HG	27:D1:95:LEU:O	1.89	0.72
36:DA:20:C:H2'	36:DA:21:A:H8	1.54	0.72
36:DA:377:C:H2'	36:DA:378:C:C6	2.24	0.72
36:DA:619:G:H3'	36:DA:620:G:H21	1.54	0.72
36:DA:1231:G:H2'	36:DA:1232:G:C8	2.23	0.72
36:DA:2147:G:H2'	36:DA:2148:G:O4'	1.89	0.72
39:DD:63:ARG:HH11	39:DD:63:ARG:HG3	1.53	0.72
39:DD:91:ARG:HG2	39:DD:91:ARG:HH11	1.54	0.72
39:DD:248:SER:HB2	39:DD:249:PRO:HD2	1.71	0.72
41:DF:160:ASN:ND2	41:DF:162:LEU:HD13	2.03	0.72
58:DZ:85:HIS:CD2	58:DZ:86:VAL:N	2.57	0.72
58:DZ:145:GLU:HG3	58:DZ:146:ILE:H	1.53	0.72
1:AA:20:U:H2'	1:AA:21:G:O4'	1.89	0.72
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.24	0.72
12:AL:37:CYS:HB2	12:AL:81:SER:O	1.88	0.72
12:AL:110:VAL:O	12:AL:122:THR:HB	1.89	0.72
17:AQ:29:HIS:CE1	17:AQ:31:LEU:H	2.08	0.72
20:AT:50:GLU:HB2	20:AT:100:ILE:HD13	1.69	0.72
30:B4:5:ILE:O	30:B4:5:ILE:HG12	1.88	0.72
36:BA:270:A:O2'	36:BA:271:A:H5'	1.89	0.72
36:BA:272(H):C:C2'	36:BA:272(I):U:H5''	2.18	0.72
36:BA:487:C:H1'	55:BW:53:SER:HA	1.71	0.72
36:BA:570:G:H2'	36:BA:2030:A:N7	2.04	0.72
36:BA:2101:G:H2'	36:BA:2102:U:H5''	1.71	0.72
36:BA:2463:C:O2'	36:BA:2464:C:H5'	1.87	0.72
39:BD:8:PRO:HB3	39:BD:14:ARG:HB2	1.70	0.72
39:BD:270:ILE:HD12	39:BD:270:ILE:O	1.88	0.72
1:CA:412:A:H4'	1:CA:413:G:H8	1.54	0.72
6:CF:87:ARG:HG2	6:CF:87:ARG:HH11	1.55	0.72
12:CL:55:VAL:HG21	12:CL:67:THR:HG22	1.68	0.72
15:CO:82:ILE:HG23	15:CO:83:GLU:N	2.04	0.72
22:CV:68:C:H2'	22:CV:69:G:C5'	2.18	0.72
25:CZ:258:LEU:HD23	25:CZ:376:LYS:HB3	1.69	0.72
30:D4:46:GLN:HG3	30:D4:47:GLN:N	2.04	0.72
31:D5:43:HIS:CE1	36:DA:2816:C:H1'	2.25	0.72
34:D8:28:GLY:HA2	34:D8:32:LEU:CD2	2.18	0.72
36:DA:1435:G:H1	36:DA:1557:C:H42	1.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1498:C:C2'	36:DA:1499:C:H5''	2.18	0.72
36:DA:2053:G:N2	36:DA:2054:A:H1'	2.04	0.72
39:DD:186:HIS:HB3	39:DD:189:CYS:SG	2.29	0.72
41:DF:28:ILE:HD13	41:DF:28:ILE:H	1.54	0.72
42:DG:141:PHE:HB2	42:DG:144:ILE:HG22	1.71	0.72
48:DP:75:ILE:HD12	48:DP:75:ILE:N	2.05	0.72
48:DP:111:ARG:NH1	48:DP:149:GLU:HG3	2.03	0.72
52:DT:53:ARG:HB3	52:DT:53:ARG:HH11	1.51	0.72
53:DU:42:ALA:HA	53:DU:45:TYR:HB2	1.71	0.72
1:AA:1305:G:O2'	1:AA:1306:A:H8	1.72	0.72
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.24	0.72
1:AA:1493:A:N1	24:AY:36:U:O2'	2.19	0.72
5:AE:12:LEU:O	5:AE:13:ILE:HG13	1.89	0.72
5:AE:80:ILE:HD11	5:AE:138:ALA:HB1	1.71	0.72
16:AP:20:VAL:HG21	16:AP:32:TYR:CD2	2.24	0.72
32:B6:15:GLU:HA	32:B6:49:HIS:CE1	2.24	0.72
36:BA:571:A:O2'	36:BA:572:A:H5''	1.89	0.72
37:BB:81:G:H2'	37:BB:82:G:H5'	1.71	0.72
48:BP:97:PRO:C	48:BP:99:LEU:H	1.93	0.72
53:BU:92:ARG:HD2	54:BV:11:GLN:HG2	1.71	0.72
54:BV:38:LEU:C	54:BV:39:LEU:HD13	2.09	0.72
1:CA:920:U:H1'	1:CA:1080:A:C2	2.25	0.72
2:CB:177:ALA:HA	2:CB:182:ILE:HD12	1.69	0.72
35:D9:4:ARG:HB2	36:DA:2466:C:OP1	1.89	0.72
35:D9:24:TYR:O	35:D9:25:VAL:HG23	1.89	0.72
36:DA:364:C:O2	36:DA:364:C:H2'	1.88	0.72
36:DA:398:G:H2'	36:DA:399:G:C8	2.25	0.72
36:DA:747:U:H5	36:DA:2613:U:C5	2.08	0.72
36:DA:864:G:H1'	36:DA:914:C:H42	1.54	0.72
36:DA:2415:G:H4'	48:DP:66:GLY:C	2.10	0.72
36:DA:2772:C:H5'	40:DE:168:MET:HE3	1.71	0.72
36:DA:2827:C:H2'	36:DA:2828:C:C6	2.25	0.72
42:DG:29:TRP:HA	42:DG:29:TRP:HE3	1.52	0.72
42:DG:36:LYS:HG2	42:DG:37:VAL:N	2.02	0.72
47:DO:76:ALA:HB3	52:DT:75:ILE:HD13	1.68	0.72
48:DP:110:TYR:CD1	48:DP:111:ARG:HD2	2.25	0.72
57:DY:82:PRO:O	57:DY:96:ILE:HG22	1.90	0.72
2:AB:33:TYR:HB2	2:AB:43:ASP:HB2	1.72	0.72
2:AB:72:GLY:HA2	2:AB:165:VAL:HG22	1.72	0.72
8:AH:14:ARG:HG3	8:AH:83:ILE:CG2	2.18	0.72
10:AJ:40:LEU:N	10:AJ:40:LEU:HD23	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:83:VAL:HG12	12:AL:84:LEU:N	2.04	0.72
20:AT:59:ALA:O	20:AT:63:ILE:HG13	1.89	0.72
28:B2:47:ASN:HD22	36:BA:94(A):G:H21	1.35	0.72
34:B8:50:LEU:HD12	34:B8:51:ALA:N	2.02	0.72
36:BA:1095:A:H2'	36:BA:1096:A:C8	2.22	0.72
36:BA:1251:C:OP2	53:BU:10:ARG:NE	2.23	0.72
36:BA:1927:A:H2'	36:BA:1928:A:C8	2.25	0.72
36:BA:2150:U:H2'	36:BA:2151:G:C8	2.24	0.72
36:BA:2195:C:O2'	36:BA:2196:C:H5'	1.89	0.72
41:BF:153:SER:HA	41:BF:172:TRP:CB	2.19	0.72
42:BG:80:PHE:O	42:BG:81:LYS:HB2	1.86	0.72
1:CA:473:G:H5''	16:CP:81:ARG:CZ	2.18	0.72
1:CA:742:G:H5''	15:CO:58:MET:HE1	1.72	0.72
4:CD:19:LEU:O	4:CD:31:CYS:SG	2.48	0.72
17:CQ:34:LYS:HG2	17:CQ:35:VAL:H	1.54	0.72
36:DA:227:A:C5'	48:DP:76:LYS:HE3	2.16	0.72
36:DA:626:U:N3	48:DP:105:LEU:HG	2.04	0.72
36:DA:2523:G:H2'	36:DA:2524:G:C5'	2.12	0.72
36:DA:2773:C:H5''	40:DE:164:ARG:CG	2.19	0.72
40:DE:52:LEU:CB	40:DE:76:ARG:HB2	2.20	0.72
46:DN:10:GLU:CG	46:DN:11:PRO:HD2	2.19	0.72
51:DS:89:ARG:HE	51:DS:91:PRO:HG2	1.54	0.72
55:DW:14:PRO:HG3	55:DW:101:SER:OG	1.89	0.72
58:DZ:86:VAL:HG12	58:DZ:87:ASP:N	2.02	0.72
6:AF:48:LEU:HB2	6:AF:56:PRO:O	1.90	0.72
7:AG:69:VAL:HG11	7:AG:104:LEU:CD2	2.19	0.72
32:B6:36:LEU:HB2	32:B6:50:ARG:NH1	2.04	0.72
33:B7:11:LYS:HZ3	36:BA:686:G:H5''	1.54	0.72
34:B8:19:SER:HB2	36:BA:651:G:OP1	1.90	0.72
34:B8:24:ALA:HA	34:B8:46:ARG:HH11	1.53	0.72
36:BA:669:G:N3	36:BA:669:G:H2'	2.04	0.72
36:BA:768:G:H2'	36:BA:769:G:C8	2.25	0.72
36:BA:803:U:H2'	36:BA:804:A:H5'	1.71	0.72
36:BA:2048:G:H1	36:BA:2620:C:H42	1.37	0.72
37:BB:75:G:H5'	37:BB:76:G:OP2	1.90	0.72
49:BQ:44:ALA:O	49:BQ:47:ILE:HB	1.90	0.72
51:BS:89:ARG:HE	51:BS:91:PRO:HG2	1.55	0.72
56:BX:8:ILE:HD11	56:BX:43:VAL:HG22	1.71	0.72
58:BZ:81:ARG:HB2	58:BZ:81:ARG:NH1	2.03	0.72
1:CA:250:A:H4'	1:CA:251:G:O5'	1.89	0.72
1:CA:1323:G:O2'	1:CA:1324:A:H5'	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:52:GLU:HG2	13:CM:55:ARG:HH11	1.55	0.72
32:D6:11:LEU:HD21	32:D6:52:VAL:H	1.54	0.72
32:D6:52:VAL:CG1	32:D6:53:LYS:N	2.53	0.72
36:DA:329:G:N7	57:DY:71:LYS:HE3	2.05	0.72
36:DA:1350:C:H2'	36:DA:1351:C:H6	1.54	0.72
42:DG:130:ASN:ND2	42:DG:160:VAL:HG13	2.03	0.72
47:DO:114:ILE:HD12	47:DO:114:ILE:N	2.00	0.72
1:AA:100:C:H2'	1:AA:101:A:C8	2.24	0.72
1:AA:1054:C:H3'	1:AA:1054:C:O2	1.89	0.72
1:AA:1333:A:H2'	1:AA:1334:G:O4'	1.89	0.72
2:AB:61:LEU:HD23	2:AB:68:ILE:HD11	1.71	0.72
10:AJ:50:ILE:H	10:AJ:50:ILE:CD1	2.00	0.72
12:AL:45:PRO:HD3	12:AL:51:ALA:O	1.89	0.72
13:AM:57:ARG:HG2	13:AM:61:GLU:HB2	1.70	0.72
20:AT:44:ALA:HB1	20:AT:88:VAL:HG13	1.71	0.72
22:AW:1:G:N3	22:AW:1:G:H2'	2.04	0.72
36:BA:811:U:C5	48:BP:24:GLY:HA3	2.24	0.72
36:BA:1041:C:O2'	36:BA:1042:G:H5'	1.89	0.72
36:BA:2147:G:H2'	36:BA:2148:G:O4'	1.90	0.72
36:BA:2653:U:H3'	36:BA:2654:A:H8	1.54	0.72
36:BA:2773:C:H5''	40:BE:164:ARG:CG	2.19	0.72
52:BT:107:ASP:CG	52:BT:109:GLU:H	1.93	0.72
55:BW:20:VAL:HG23	55:BW:47:VAL:HG21	1.71	0.72
58:BZ:51:ALA:CB	58:BZ:57:ILE:HD11	2.19	0.72
1:CA:1337:G:H5''	1:CA:1338:G:OP1	1.90	0.72
4:CD:67:ILE:HG22	4:CD:68:TYR:CE1	2.24	0.72
24:CY:40:G:C2'	24:CY:41:G:H5''	2.17	0.72
35:D9:7:VAL:HG21	35:D9:36:GLN:HB2	1.71	0.72
36:DA:270:A:O2'	36:DA:271:A:H5'	1.89	0.72
36:DA:1327:C:H42	36:DA:1647:G:H21	1.35	0.72
36:DA:2305:A:N6	42:DG:43:LEU:HD13	2.05	0.72
36:DA:2712:U:H1'	36:DA:2712(A):A:N7	2.04	0.72
56:DX:36:LYS:CA	56:DX:39:ILE:HB	2.15	0.72
1:AA:819:A:H4'	1:AA:820:U:OP2	1.89	0.72
1:AA:1202:G:H4'	14:AN:29:ARG:HD3	1.70	0.72
2:AB:9:GLU:OE2	2:AB:9:GLU:N	2.22	0.72
4:AD:31:CYS:C	4:AD:33:MET:H	1.92	0.72
22:AV:56:C:O4'	42:BG:76:SER:HB2	1.89	0.72
25:AZ:347:THR:HG22	25:AZ:348:ASP:N	2.05	0.72
32:B6:19:ARG:HG3	32:B6:20:ASN:N	2.04	0.72
36:BA:1170:G:H1	36:BA:1179:C:N4	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1243:G:C2'	36:BA:1244:G:H5''	2.19	0.72
36:BA:2311:A:N1	42:BG:80:PHE:HB3	2.05	0.72
36:BA:2350:C:H2'	36:BA:2351:G:O4'	1.89	0.72
41:BF:28:ILE:HD13	41:BF:28:ILE:H	1.53	0.72
43:BH:87:LEU:HD23	43:BH:164:TYR:HA	1.72	0.72
48:BP:110:TYR:CD1	48:BP:111:ARG:HD2	2.24	0.72
1:CA:967:C:H2'	1:CA:968:A:C8	2.25	0.72
1:CA:1054:C:C6	1:CA:1196:U:C4	2.77	0.72
13:CM:7:VAL:CG2	42:DG:115:ARG:HA	2.20	0.72
28:D2:69:ARG:HH22	36:DA:111:A:H4'	1.54	0.72
32:D6:7:ILE:HG22	32:D6:7:ILE:O	1.89	0.72
34:D8:52:LYS:N	34:D8:53:PRO:HD2	2.04	0.72
36:DA:996:A:N6	36:DA:1160:G:C6	2.58	0.72
36:DA:1170:G:N2	36:DA:1179:C:H42	1.86	0.72
36:DA:1473:G:C2	36:DA:1474:C:H1'	2.24	0.72
36:DA:2311:A:H2	42:DG:77:ILE:HG21	1.54	0.72
37:DB:7:G:C3'	37:DB:8:U:H5''	2.19	0.72
40:DE:64:LYS:HG2	40:DE:66:HIS:HB2	1.70	0.72
41:DF:53:THR:HG23	41:DF:55:GLY:H	1.55	0.72
50:DR:100:LEU:N	50:DR:100:LEU:HD22	2.05	0.72
51:DS:49:VAL:HG12	51:DS:50:SER:N	2.03	0.72
10:AJ:42:THR:HG23	10:AJ:68:HIS:HA	1.70	0.72
22:AW:57:G:H2'	22:AW:58:A:H5'	1.70	0.72
25:AZ:360:GLU:O	25:AZ:362:VAL:HG23	1.90	0.72
35:B9:7:VAL:HG21	35:B9:36:GLN:HB2	1.72	0.72
36:BA:20:C:H2'	36:BA:21:A:H8	1.54	0.72
36:BA:310:A:P	57:BY:18:GLY:HA2	2.29	0.72
36:BA:1657:C:O2'	36:BA:1658:C:H5'	1.90	0.72
36:BA:2039:C:H2'	36:BA:2040:C:C6	2.25	0.72
36:BA:2157:G:O2'	36:BA:2158:A:H5'	1.89	0.72
36:BA:2249:U:H4'	36:BA:2275:C:C5	2.25	0.72
36:BA:2681:C:H6	36:BA:2683:C:H41	1.35	0.72
36:BA:2839:G:H1	36:BA:2878:U:H3	1.37	0.72
37:BB:51:G:H2'	37:BB:52:A:C8	2.24	0.72
41:BF:64:ILE:HG23	41:BF:65:TRP:N	2.02	0.72
42:BG:180:PHE:HB2	42:BG:182:LYS:HZ3	1.55	0.72
49:BQ:74:TYR:HD1	49:BQ:75:THR:H	1.38	0.72
53:BU:49:HIS:HA	53:BU:52:ARG:HB2	1.71	0.72
1:CA:1049:U:H2'	14:CN:2:ALA:N	2.05	0.72
1:CA:1359:C:P	14:CN:22:THR:HG21	2.30	0.72
7:CG:133:GLY:O	7:CG:136:LYS:HB2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:76:C:H2'	36:DA:77:C:H6	1.55	0.72
36:DA:265:A:H4'	36:DA:266:G:O5'	1.89	0.72
36:DA:1639:U:H2'	36:DA:1640:C:H5''	1.72	0.72
36:DA:1822:G:H2'	36:DA:1823:G:H8	1.54	0.72
36:DA:2074:U:H2'	36:DA:2075:U:C6	2.24	0.72
36:DA:2802:G:C3'	36:DA:2803:C:H5''	2.19	0.72
38:DC:98:GLU:C	38:DC:100:ILE:H	1.92	0.72
41:DF:158:THR:HA	41:DF:198:ALA:HB2	1.72	0.72
25:AZ:255:ILE:HG12	25:AZ:304:LEU:HD22	1.72	0.72
26:B0:34:GLY:HA3	36:BA:2353:G:H1'	1.72	0.72
36:BA:57:C:O2'	36:BA:58:G:H5'	1.90	0.72
36:BA:440:G:N2	41:BF:46:ARG:HH21	1.87	0.72
36:BA:584:C:H2'	36:BA:585:G:H5'	1.72	0.72
36:BA:1162:G:H4'	54:BV:24:LYS:HB2	1.71	0.72
36:BA:1681:G:O2'	36:BA:1762:A:H2'	1.90	0.72
36:BA:1690:A:H2'	36:BA:1691:C:H5'	1.70	0.72
37:BB:15:A:H1'	37:BB:110:G:C6	2.25	0.72
49:BQ:70:PRO:O	49:BQ:93:TYR:HB3	1.90	0.72
52:BT:80:SER:CB	52:BT:81:PRO:HD3	2.19	0.72
52:BT:107:ASP:CG	52:BT:108:ARG:N	2.43	0.72
58:BZ:146:ILE:HA	58:BZ:174:VAL:CG1	2.20	0.72
1:CA:80:G:C3'	1:CA:81:U:H5'	2.20	0.72
1:CA:858:G:C6	1:CA:869:G:N7	2.58	0.72
1:CA:1095:U:H2'	1:CA:1096:C:C6	2.25	0.72
1:CA:1191:A:H5''	3:CC:4:LYS:HZ2	1.55	0.72
1:CA:1320:C:H5''	19:CS:70:LYS:HG3	1.72	0.72
3:CC:153:VAL:O	3:CC:154:SER:HB3	1.90	0.72
14:CN:7:ILE:O	14:CN:11:LYS:HG3	1.89	0.72
25:CZ:132:VAL:HG13	25:CZ:169:PRO:HB2	1.70	0.72
36:DA:203:C:H3'	36:DA:204:A:H5''	1.72	0.72
36:DA:2175:C:H5'	38:DC:219:GLY:O	1.89	0.72
36:DA:2514:U:H2'	36:DA:2515:C:C6	2.25	0.72
38:DC:94:VAL:CG1	38:DC:95:GLY:H	1.94	0.72
51:DS:51:ALA:HB2	51:DS:73:LEU:HG	1.72	0.72
1:AA:390:C:H4'	16:AP:28:ARG:HH11	1.53	0.72
1:AA:574:A:N3	1:AA:883:C:H1'	2.05	0.72
1:AA:621:A:O2'	1:AA:622:A:H5'	1.90	0.72
1:AA:1490:C:O2'	1:AA:1491:G:H5'	1.90	0.72
3:AC:8:ILE:HG13	3:AC:184:TYR:HB3	1.72	0.72
4:AD:15:GLU:O	4:AD:17:VAL:HG23	1.89	0.72
7:AG:31:MET:O	7:AG:32:ARG:HG3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:71:LEU:HD12	10:AJ:72:VAL:N	2.05	0.72
11:AK:20:TYR:C	11:AK:21:ILE:HD12	2.09	0.72
15:AO:56:LEU:O	15:AO:60:VAL:HG23	1.90	0.72
25:AZ:164:PRO:O	25:AZ:168:VAL:HG23	1.90	0.72
33:B7:12:ARG:HG3	36:BA:686:G:O6	1.90	0.72
36:BA:1231:G:H2'	36:BA:1232:G:H8	1.52	0.72
36:BA:1246:A:H2'	36:BA:1247:A:H5'	1.70	0.72
36:BA:1327:C:H42	36:BA:1647:G:H21	1.37	0.72
36:BA:2482:G:H22	49:BQ:52:VAL:CG1	2.01	0.72
39:BD:35:LYS:NZ	39:BD:36:PRO:HD3	2.05	0.72
40:BE:64:LYS:HG2	40:BE:66:HIS:HB2	1.71	0.72
43:BH:20:ALA:HB1	43:BH:21:PRO:CD	2.20	0.72
48:BP:75:ILE:HD12	48:BP:75:ILE:N	2.05	0.72
48:BP:111:ARG:NH1	48:BP:149:GLU:HG3	2.04	0.72
53:BU:95:LEU:HD12	54:BV:11:GLN:HE21	1.54	0.72
54:BV:39:LEU:N	54:BV:39:LEU:HD22	2.05	0.72
1:CA:711:G:H2'	1:CA:712:A:C8	2.24	0.72
12:CL:45:PRO:HG3	12:CL:53:ARG:HD3	1.72	0.72
34:D8:24:ALA:HA	34:D8:46:ARG:NH1	2.05	0.72
36:DA:691:C:O2'	36:DA:692:C:H5'	1.89	0.72
36:DA:1062:G:C2	36:DA:1063:G:H1'	2.25	0.72
36:DA:1335:U:H2'	36:DA:1336:A:C8	2.25	0.72
36:DA:1693:U:H5'	36:DA:1693:U:H6	1.54	0.72
46:DN:57:ALA:HB3	46:DN:124:ALA:HA	1.71	0.72
47:DO:64:ARG:HH21	47:DO:100:GLY:HA3	1.55	0.72
56:DX:76:ARG:HD3	56:DX:76:ARG:N	2.05	0.72
1:AA:552:U:H2'	1:AA:553:A:C8	2.25	0.71
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.24	0.71
1:AA:1505:G:H4'	1:AA:1506:U:H5'	1.72	0.71
36:BA:996:A:O2'	53:BU:92:ARG:HG3	1.90	0.71
36:BA:1817:G:O2'	36:BA:1818:U:H5'	1.90	0.71
36:BA:2721:A:H2'	36:BA:2722:G:H8	1.55	0.71
37:BB:65:C:H2'	37:BB:109:C:H41	1.54	0.71
37:BB:106:G:H2'	37:BB:107:G:C8	2.24	0.71
39:BD:66:ASP:CG	39:BD:103:ARG:HH21	1.94	0.71
40:BE:78:LEU:HD12	40:BE:78:LEU:O	1.90	0.71
1:CA:1380:U:H4'	1:CA:1381:U:O5'	1.90	0.71
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.25	0.71
5:CE:12:LEU:CD1	5:CE:31:LEU:HB3	2.20	0.71
36:DA:686:G:N2	36:DA:788:A:H61	1.88	0.71
36:DA:2110:G:H1	36:DA:2178:C:H41	1.34	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2144:U:H2'	36:DA:2146:C:C5	2.24	0.71
36:DA:2881:C:H2'	36:DA:2882:A:C8	2.25	0.71
41:DF:64:ILE:CG2	41:DF:65:TRP:H	2.00	0.71
46:DN:3:THR:HG22	46:DN:4:TYR:N	2.02	0.71
51:DS:89:ARG:HG3	51:DS:92:TYR:CA	2.20	0.71
54:DV:39:LEU:N	54:DV:39:LEU:HD22	2.05	0.71
56:DX:8:ILE:O	56:DX:8:ILE:HG22	1.90	0.71
1:AA:328:C:H4'	1:AA:329:A:H5'	1.72	0.71
1:AA:624:C:H2'	1:AA:625:G:H8	1.55	0.71
2:AB:237:ALA:O	2:AB:238:LEU:HB3	1.90	0.71
7:AG:36:LYS:HA	7:AG:39:ALA:HB3	1.70	0.71
20:AT:83:ARG:HA	20:AT:86:ARG:HB3	1.72	0.71
25:AZ:24:LYS:HG2	62:AZ:501:GDP:O3B	1.89	0.71
27:B1:40:ARG:HG3	27:B1:41:ARG:N	2.03	0.71
30:B4:5:ILE:O	42:BG:67:LYS:HE2	1.90	0.71
36:BA:76:C:H2'	36:BA:77:C:H6	1.53	0.71
36:BA:272(H):C:H2'	36:BA:272(I):U:C5'	2.20	0.71
36:BA:547:A:H2'	36:BA:548:A:H8	1.55	0.71
40:BE:4:ILE:HG13	40:BE:31:CYS:SG	2.30	0.71
41:BF:29:ASN:O	41:BF:33:LEU:HD23	1.91	0.71
41:BF:139:PHE:CE1	41:BF:143:ALA:HB2	2.25	0.71
50:BR:55:ALA:HA	50:BR:80:PHE:HE1	1.55	0.71
54:BV:69:LYS:HA	54:BV:87:HIS:O	1.90	0.71
1:CA:189(B):C:H2'	1:CA:189(C):C:C6	2.25	0.71
1:CA:923:A:H5''	5:CE:21:ALA:HB2	1.72	0.71
1:CA:939:G:H5''	7:CG:102:ARG:HH22	1.55	0.71
3:CC:90:GLU:HA	3:CC:93:LYS:HB3	1.70	0.71
4:CD:121:VAL:HG12	4:CD:134:ASP:HA	1.71	0.71
10:CJ:40:LEU:HD23	10:CJ:40:LEU:N	2.05	0.71
16:CP:43:LYS:HG2	16:CP:48:TRP:CZ3	2.25	0.71
18:CR:43:PHE:C	18:CR:44:LEU:HD12	2.11	0.71
30:D4:9:LEU:HG	42:DG:98:ARG:HH12	1.54	0.71
36:DA:80:G:O2'	36:DA:81:G:H5'	1.90	0.71
36:DA:449:A:C4'	53:DU:3:ARG:HH21	2.04	0.71
36:DA:1667:G:H8	36:DA:1667:G:OP2	1.73	0.71
36:DA:2408:U:O5'	36:DA:2408:U:H6	1.72	0.71
51:DS:98:VAL:HG12	51:DS:100:ALA:H	1.55	0.71
1:AA:663:A:O2'	1:AA:664:G:H5'	1.90	0.71
1:AA:1434:A:H2'	1:AA:1435:G:C8	2.25	0.71
2:AB:18:GLY:H	2:AB:42:ILE:CG2	2.01	0.71
2:AB:36:ARG:C	2:AB:38:GLY:H	1.94	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:15:THR:HG21	3:AC:181:ASN:HA	1.71	0.71
3:AC:112:SER:HB3	3:AC:115:LEU:HD12	1.72	0.71
4:AD:6:GLY:O	4:AD:8:VAL:HG13	1.89	0.71
9:AI:43:ALA:C	9:AI:45:ALA:H	1.90	0.71
12:AL:82:VAL:HG12	12:AL:105:TYR:HD1	1.55	0.71
20:AT:73:HIS:O	20:AT:76:ALA:HB3	1.90	0.71
25:AZ:258:LEU:HD23	25:AZ:376:LYS:HB3	1.71	0.71
28:B2:14:ARG:HH22	36:BA:78:A:H5'	1.55	0.71
36:BA:760:G:H3'	36:BA:761:A:C8	2.26	0.71
36:BA:1842:G:H2'	36:BA:1843:C:C6	2.24	0.71
36:BA:2415:G:H4'	48:BP:66:GLY:C	2.11	0.71
41:BF:178:PRO:HG2	41:BF:179:GLU:OE1	1.89	0.71
42:BG:20:ILE:HG23	42:BG:25:TYR:HB2	1.72	0.71
47:BO:19:ILE:HG22	47:BO:43:VAL:HA	1.72	0.71
47:BO:114:ILE:H	47:BO:114:ILE:CD1	1.97	0.71
57:BY:73:ARG:HE	57:BY:73:ARG:HA	1.55	0.71
1:CA:1338:G:H2'	1:CA:1339:A:C8	2.25	0.71
36:DA:370:G:H2'	36:DA:423:A:N7	2.04	0.71
36:DA:1092:C:H42	36:DA:1100:C:N4	1.84	0.71
36:DA:1516:C:C3'	36:DA:1517:G:H5''	2.20	0.71
36:DA:2892:A:H62	36:DA:2893:G:N2	1.87	0.71
46:DN:21:LYS:HE3	46:DN:25:ARG:HB3	1.72	0.71
47:DO:11:ALA:CB	47:DO:98:VAL:HG23	2.19	0.71
52:DT:58:ASN:HD22	52:DT:58:ASN:N	1.83	0.71
1:AA:1251:A:O2'	1:AA:1370:G:H5'	1.90	0.71
22:AV:68:C:H2'	22:AV:69:G:C5'	2.19	0.71
24:AY:29:C:H42	24:AY:41:G:H1	1.38	0.71
32:B6:11:LEU:HD21	32:B6:52:VAL:H	1.55	0.71
36:BA:598:G:H5'	48:BP:15:ARG:CD	2.20	0.71
36:BA:601:C:O2	36:BA:605:C:H5''	1.90	0.71
40:BE:44:TYR:O	40:BE:45:THR:HB	1.90	0.71
43:BH:42:ARG:O	43:BH:43:VAL:HG13	1.89	0.71
49:BQ:32:TYR:CE2	49:BQ:111:GLU:HG3	2.25	0.71
51:BS:37:ALA:HB2	51:BS:99:LYS:NZ	2.06	0.71
55:BW:6:ILE:HG12	55:BW:104:THR:HG22	1.71	0.71
58:BZ:128:VAL:HG22	58:BZ:129:SER:N	2.05	0.71
1:CA:346:G:H5'	52:DT:41:ARG:NH2	2.05	0.71
1:CA:1016:A:H2'	1:CA:1017:G:O4'	1.90	0.71
4:CD:20:TYR:HA	4:CD:26:CYS:HB3	1.72	0.71
7:CG:105:VAL:O	7:CG:106:GLN:C	2.28	0.71
16:CP:3:LYS:HG2	16:CP:65:GLN:HB2	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:83:ARG:HA	20:CT:86:ARG:HB3	1.73	0.71
25:CZ:255:ILE:HG12	25:CZ:304:LEU:HD22	1.72	0.71
25:CZ:360:GLU:O	25:CZ:362:VAL:HG23	1.88	0.71
29:D3:6:VAL:HB	29:D3:54:VAL:CG1	2.20	0.71
32:D6:35:GLU:HG2	32:D6:51:GLU:HG3	1.72	0.71
36:DA:811:U:C5	48:DP:24:GLY:HA3	2.25	0.71
36:DA:1999:C:H2'	36:DA:2000:G:H8	1.54	0.71
36:DA:2009:G:H4'	55:DW:40:ASN:HD22	1.55	0.71
36:DA:2777:G:H5''	36:DA:2778:A:H5'	1.71	0.71
37:DB:75:G:H5'	37:DB:76:G:OP2	1.90	0.71
43:DH:33:LEU:HD12	43:DH:75:ALA:CA	2.20	0.71
49:DQ:6:ARG:O	49:DQ:7:MET:HG3	1.90	0.71
56:DX:12:VAL:HG12	56:DX:27:THR:C	2.11	0.71
1:AA:256:U:H2'	1:AA:257:G:C8	2.25	0.71
1:AA:1258:G:O2'	1:AA:1259:C:H5'	1.90	0.71
4:AD:30:LYS:C	4:AD:32:ALA:N	2.43	0.71
7:AG:23:VAL:O	7:AG:27:ILE:HG13	1.89	0.71
12:AL:55:VAL:HG21	12:AL:67:THR:HG22	1.71	0.71
12:AL:86:ARG:HG2	12:AL:87:GLY:H	1.55	0.71
14:AN:23:ARG:HA	14:AN:30:ALA:HA	1.71	0.71
14:AN:29:ARG:HG3	14:AN:29:ARG:HH11	1.56	0.71
27:B1:45:ASN:CB	36:BA:2230:G:H1'	2.20	0.71
27:B1:83:GLU:OE1	27:B1:83:GLU:N	2.24	0.71
28:B2:35:LEU:CD1	28:B2:50:ILE:HG13	2.19	0.71
29:B3:12:PRO:HG2	29:B3:13:ILE:H	1.55	0.71
36:BA:864:G:H1'	36:BA:914:C:H42	1.56	0.71
36:BA:1064:C:H3'	36:BA:1065:U:C5'	2.20	0.71
36:BA:1512:U:H2'	36:BA:1512:U:O2	1.91	0.71
36:BA:2306:C:H5'	36:BA:2307:G:O5'	1.91	0.71
41:BF:32:LEU:O	41:BF:36:VAL:HG23	1.90	0.71
42:BG:114:ILE:HD12	42:BG:135:LEU:HD11	1.72	0.71
46:BN:57:ALA:HB3	46:BN:124:ALA:HA	1.70	0.71
53:BU:24:TYR:HB2	53:BU:29:SER:HB3	1.71	0.71
2:CB:9:GLU:N	2:CB:9:GLU:OE2	2.24	0.71
2:CB:169:LYS:HB3	2:CB:170:GLU:OE2	1.89	0.71
8:CH:11:THR:HG22	8:CH:15:ASN:ND2	2.05	0.71
18:CR:66:LEU:O	18:CR:70:ILE:HG13	1.90	0.71
27:D1:18:ILE:HG22	27:D1:19:GLN:N	2.05	0.71
36:DA:571:A:O2'	36:DA:572:A:H5''	1.91	0.71
36:DA:673:C:O2'	36:DA:674:G:H5'	1.89	0.71
36:DA:1027:A:N3	36:DA:1027:A:H2'	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1065:U:O2'	36:DA:1066:U:H5''	1.90	0.71
37:DB:15:A:H1'	37:DB:110:G:C6	2.26	0.71
43:DH:44:VAL:HG12	43:DH:45:VAL:N	2.03	0.71
1:AA:987:G:H2'	1:AA:988:G:H8	1.55	0.71
2:AB:172:ILE:HD12	2:AB:172:ILE:H	1.55	0.71
2:AB:177:ALA:HA	2:AB:182:ILE:HD12	1.71	0.71
3:AC:70:VAL:HG12	3:AC:71:ALA:N	2.03	0.71
22:AW:3:C:H2'	22:AW:4:C:O4'	1.89	0.71
30:B4:26:SER:HB2	42:BG:143:GLU:OE1	1.91	0.71
36:BA:377:C:H2'	36:BA:378:C:C6	2.26	0.71
36:BA:1578:U:C2'	36:BA:1579:A:H5''	2.21	0.71
36:BA:1775:U:H2'	36:BA:1776:G:C5'	2.21	0.71
36:BA:2170:A:H5''	38:BC:134:ARG:HE	1.55	0.71
37:BB:114:C:H4'	51:BS:46:VAL:HG13	1.73	0.71
40:BE:4:ILE:HD13	40:BE:28:ALA:HB1	1.73	0.71
40:BE:198:VAL:HG12	40:BE:199:ARG:N	2.05	0.71
46:BN:36:GLY:H	46:BN:49:GLY:CA	2.04	0.71
55:BW:14:PRO:CG	55:BW:78:GLU:HB2	2.19	0.71
2:CB:18:GLY:N	2:CB:42:ILE:HG22	2.06	0.71
2:CB:168:THR:HG23	2:CB:192:SER:OG	1.91	0.71
3:CC:8:ILE:HG13	3:CC:184:TYR:HB3	1.71	0.71
25:CZ:271:GLU:O	25:CZ:286:VAL:HG23	1.90	0.71
26:D0:34:GLY:HA3	36:DA:2353:G:H1'	1.72	0.71
26:D0:55:ARG:O	26:D0:57:PHE:N	2.23	0.71
36:DA:1708:C:H2'	36:DA:1709:U:C6	2.26	0.71
36:DA:1853:A:H2'	36:DA:1854:A:C8	2.25	0.71
38:DC:86:ALA:HB3	38:DC:94:VAL:HG11	1.73	0.71
41:DF:153:SER:HA	41:DF:172:TRP:CB	2.20	0.71
50:DR:10:LEU:O	50:DR:11:ASN:HB2	1.90	0.71
3:AC:181:ASN:HD21	3:AC:204:LEU:HD12	1.55	0.71
22:AV:21:A:O2'	22:AV:22:G:H5''	1.90	0.71
31:B5:40:LYS:HZ2	31:B5:45:VAL:HA	1.53	0.71
36:BA:2260:C:H42	36:BA:2280:G:H1	1.39	0.71
36:BA:2590:A:OP2	39:BD:238:GLY:HA2	1.91	0.71
36:BA:2802:G:C3'	36:BA:2803:C:H5''	2.20	0.71
37:BB:21:G:H2'	37:BB:22:U:O4'	1.89	0.71
41:BF:160:ASN:ND2	41:BF:162:LEU:HD13	2.06	0.71
1:CA:167:G:H2'	1:CA:168:G:H8	1.55	0.71
1:CA:1251:A:O2'	1:CA:1370:G:H5'	1.89	0.71
2:CB:151:GLY:O	2:CB:153:ARG:N	2.24	0.71
9:CI:33:PHE:CZ	9:CI:47:LEU:HD11	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:21:LEU:HD21	28:D2:60:LEU:HD22	1.71	0.71
36:DA:118:A:N3	36:DA:178:G:H1'	2.05	0.71
36:DA:687:C:H2'	36:DA:688:U:O4'	1.90	0.71
36:DA:751:A:H5'	55:DW:90:ARG:HA	1.71	0.71
36:DA:1279:G:H1	36:DA:1291:C:H42	1.38	0.71
36:DA:1827:C:H2'	36:DA:1828:G:O4'	1.91	0.71
42:DG:131:TYR:CE2	42:DG:133:LEU:HB3	2.21	0.71
49:DQ:51:ARG:O	49:DQ:54:MET:HB3	1.91	0.71
55:DW:52:GLU:C	55:DW:54:ALA:H	1.93	0.71
4:AD:109:GLY:O	4:AD:111:ALA:N	2.20	0.71
4:AD:170:VAL:HG12	4:AD:171:GLY:N	2.06	0.71
26:B0:38:VAL:HB	26:B0:59:LEU:HD12	1.72	0.71
28:B2:56:GLN:O	28:B2:60:LEU:HD12	1.90	0.71
32:B6:52:VAL:CG1	32:B6:53:LYS:N	2.53	0.71
36:BA:61:G:H1	36:BA:94:C:H42	1.39	0.71
36:BA:318:C:O2'	36:BA:319:C:H5'	1.90	0.71
36:BA:1946:U:H2'	36:BA:1947:C:H6	1.56	0.71
36:BA:2875:C:H4'	52:BT:5:ALA:HB3	1.73	0.71
40:BE:47:VAL:HG23	40:BE:84:PHE:O	1.90	0.71
41:BF:158:THR:HA	41:BF:198:ALA:HB2	1.72	0.71
48:BP:59:LEU:HA	48:BP:61:ARG:CD	2.20	0.71
49:BQ:34:LEU:HD12	49:BQ:130:LYS:O	1.90	0.71
49:BQ:37:LEU:HD11	49:BQ:129:THR:O	1.91	0.71
51:BS:89:ARG:HG3	51:BS:92:TYR:CA	2.20	0.71
1:CA:963:G:H21	10:CJ:55:LYS:HD3	1.56	0.71
1:CA:983:A:H2'	1:CA:983:A:N3	2.04	0.71
1:CA:1118:C:H1'	1:CA:1179:A:C5	2.26	0.71
3:CC:26:LYS:HG3	3:CC:27:LYS:H	1.55	0.71
7:CG:72:ARG:HG2	7:CG:73:MET:HG3	1.71	0.71
9:CI:4:TYR:HA	9:CI:88:TYR:CE1	2.26	0.71
9:CI:43:ALA:CB	9:CI:74:ILE:HD13	2.20	0.71
9:CI:104:ARG:HG2	9:CI:105:ASP:N	2.06	0.71
13:CM:6:GLY:C	13:CM:8:GLU:H	1.94	0.71
22:CW:53:G:N2	22:CW:62:C:H42	1.88	0.71
22:CW:62:C:H2'	22:CW:63:G:H8	1.56	0.71
36:DA:1243:G:C2'	36:DA:1244:G:H5''	2.21	0.71
36:DA:2039:C:H2'	36:DA:2040:C:C6	2.26	0.71
36:DA:2170:A:H5''	38:DC:134:ARG:HE	1.54	0.71
36:DA:2179:C:H5''	36:DA:2180:U:OP1	1.90	0.71
36:DA:2233:U:H2'	36:DA:2234:G:C8	2.26	0.71
39:DD:175:LEU:HD12	39:DD:185:VAL:HG21	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:39:ILE:HG22	42:DG:157:ILE:HG12	1.72	0.71
42:DG:52:ILE:H	42:DG:52:ILE:HD13	1.53	0.71
43:DH:41:MET:HG3	43:DH:42:ARG:N	2.05	0.71
49:DQ:39:PRO:HG3	49:DQ:99:PRO:HD2	1.72	0.71
50:DR:55:ALA:HA	50:DR:80:PHE:HE1	1.54	0.71
54:DV:69:LYS:HA	54:DV:87:HIS:O	1.91	0.71
57:DY:46:LYS:HB2	57:DY:62:GLU:HG2	1.72	0.71
1:AA:512:U:H2'	1:AA:513:C:H6	1.56	0.71
1:AA:1054:C:H6	1:AA:1196:U:C4	2.09	0.71
1:AA:1105:A:O2'	1:AA:1106:G:H5'	1.91	0.71
2:AB:215:LEU:O	2:AB:219:VAL:HG23	1.90	0.71
6:AF:37:VAL:HG12	6:AF:38:GLU:N	2.06	0.71
12:AL:20:LYS:HD3	12:AL:20:LYS:H	1.55	0.71
14:AN:12:ARG:HB3	14:AN:14:PRO:HG2	1.71	0.71
14:AN:12:ARG:C	14:AN:14:PRO:HD2	2.11	0.71
29:B3:1:MET:HB2	29:B3:38:GLU:HG3	1.73	0.71
33:B7:18:PHE:HZ	36:BA:117:G:H4'	1.54	0.71
36:BA:761:A:H8	36:BA:761:A:O5'	1.74	0.71
36:BA:1818:U:C2'	39:BD:157:ARG:HG3	2.20	0.71
36:BA:1853:A:H2'	36:BA:1854:A:C8	2.25	0.71
36:BA:2359:C:H2'	36:BA:2360:A:H5'	1.73	0.71
44:BJ:56:UNK:HA	44:BJ:83:UNK:HA	1.72	0.71
46:BN:10:GLU:CG	46:BN:11:PRO:HD2	2.21	0.71
46:BN:129:PRO:O	46:BN:130:HIS:HB3	1.91	0.71
49:BQ:27:VAL:HG23	49:BQ:137:TYR:CD1	2.26	0.71
1:CA:781:A:H2'	1:CA:782:A:H5'	1.73	0.71
4:CD:173:TRP:HB3	4:CD:187:ARG:NH2	2.06	0.71
7:CG:63:LYS:NZ	7:CG:67:GLU:HB2	2.06	0.71
13:CM:108:ARG:HH11	13:CM:108:ARG:HA	1.56	0.71
18:CR:53:ARG:HH21	18:CR:59:SER:HA	1.54	0.71
26:D0:38:VAL:HB	26:D0:59:LEU:HD12	1.73	0.71
36:DA:272(H):C:H2'	36:DA:272(I):U:C5'	2.20	0.71
36:DA:2756:U:H1'	36:DA:2757:A:H5''	1.72	0.71
45:DK:31:UNK:O	45:DK:63:UNK:HA	1.91	0.71
46:DN:55:VAL:HG22	46:DN:56:ASN:H	1.56	0.71
54:DV:98:GLU:OE2	54:DV:100:ARG:HD3	1.91	0.71
56:DX:14:SER:O	56:DX:17:ALA:HB3	1.90	0.71
58:DZ:128:VAL:HG21	58:DZ:160:GLY:O	1.91	0.71
1:AA:473:G:H2'	1:AA:474:G:H8	1.54	0.71
1:AA:892:A:O2'	1:AA:1415:G:H4'	1.91	0.71
1:AA:1190:G:OP1	3:AC:4:LYS:HA	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:43:ALA:CB	9:AI:74:ILE:HD13	2.20	0.71
10:AJ:67:THR:HG23	10:AJ:67:THR:O	1.91	0.71
10:AJ:80:LYS:HB3	10:AJ:80:LYS:NZ	2.05	0.71
25:AZ:139:ASP:O	25:AZ:140:MET:HG2	1.90	0.71
36:BA:80:G:O2'	36:BA:81:G:H5'	1.91	0.71
36:BA:106:C:H2'	36:BA:107:C:C6	2.25	0.71
36:BA:212:G:O2'	36:BA:213:A:H5'	1.90	0.71
36:BA:234:C:H2'	36:BA:235:U:H6	1.55	0.71
36:BA:265:A:H4'	36:BA:266:G:O5'	1.90	0.71
36:BA:410:G:H1	36:BA:417:C:H42	1.39	0.71
36:BA:2491:U:H4'	36:BA:2570:G:OP1	1.91	0.71
39:BD:35:LYS:HG2	39:BD:63:ARG:CG	2.21	0.71
47:BO:101:PRO:HD3	52:BT:68:TYR:HB2	1.72	0.71
1:CA:547:A:H4'	1:CA:548:G:O5'	1.91	0.71
1:CA:660:G:H2'	1:CA:661:G:H8	1.56	0.71
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.25	0.71
8:CH:14:ARG:CB	8:CH:14:ARG:HH11	2.04	0.71
10:CJ:50:ILE:HG22	10:CJ:60:ARG:HG2	1.73	0.71
24:CY:9:A:N6	24:CY:23:A:H62	1.89	0.71
28:D2:51:ARG:HB2	28:D2:55:ARG:NH2	2.06	0.71
32:D6:19:ARG:HG3	32:D6:20:ASN:N	2.04	0.71
36:DA:142:A:H5'	36:DA:142(A):C:OP2	1.91	0.71
36:DA:581:C:H2'	36:DA:582:G:C8	2.25	0.71
39:DD:24:ILE:O	39:DD:25:THR:O	2.08	0.71
39:DD:136:ILE:HG22	39:DD:140:THR:OG1	1.90	0.71
41:DF:132:VAL:HG22	41:DF:133:ASN:N	2.05	0.71
46:DN:14:VAL:HG11	46:DN:137:LYS:HG3	1.73	0.71
46:DN:35:ARG:HG3	46:DN:35:ARG:O	1.90	0.71
50:DR:34:ILE:HB	50:DR:114:VAL:HG23	1.73	0.71
51:DS:83:LYS:HG2	51:DS:105:ALA:HB2	1.73	0.71
52:DT:80:SER:CB	52:DT:81:PRO:HD3	2.20	0.71
55:DW:41:LYS:C	55:DW:43:GLY:H	1.93	0.71
1:AA:8:A:H5'	5:AE:120:THR:O	1.91	0.70
1:AA:189(I):G:H2'	1:AA:189(J):G:H8	1.55	0.70
1:AA:858:G:C6	1:AA:869:G:N7	2.59	0.70
2:AB:121:LEU:HA	2:AB:124:SER:HB3	1.73	0.70
4:AD:145:GLU:HA	4:AD:184:LYS:HA	1.73	0.70
7:AG:69:VAL:O	7:AG:69:VAL:HG13	1.90	0.70
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.24	0.70
12:AL:18:VAL:CG2	12:AL:19:ARG:H	1.95	0.70
18:AR:50:ILE:HD12	18:AR:70:ILE:HG21	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:30:C:O2	24:AY:30:C:H2'	1.90	0.70
26:B0:4:LYS:HD3	36:BA:2252:G:O6	1.91	0.70
26:B0:41:ARG:NH2	36:BA:2387:U:H1'	2.06	0.70
28:B2:5:GLU:CB	28:B2:9:GLN:HE22	2.02	0.70
36:BA:329:G:N7	57:BY:71:LYS:HE3	2.06	0.70
36:BA:628:G:H2'	36:BA:629:G:H5''	1.73	0.70
36:BA:806:C:O2'	36:BA:2445:G:H4'	1.89	0.70
36:BA:1164:G:O2'	36:BA:1165:U:H5'	1.89	0.70
43:BH:33:LEU:CD1	43:BH:75:ALA:HA	2.20	0.70
54:BV:88:ARG:O	54:BV:90:PRO:HD3	1.91	0.70
57:BY:46:LYS:HB2	57:BY:62:GLU:HG2	1.72	0.70
58:BZ:76:LEU:CD2	58:BZ:82:ARG:H	2.04	0.70
2:CB:44:LEU:O	2:CB:47:THR:HB	1.91	0.70
7:CG:31:MET:HG2	7:CG:32:ARG:N	2.06	0.70
8:CH:98:LYS:HG3	8:CH:99:GLU:HG3	1.73	0.70
13:CM:32:GLU:O	13:CM:35:GLU:HG2	1.91	0.70
14:CN:48:ALA:CB	14:CN:53:LEU:HD12	2.20	0.70
18:CR:59:SER:H	18:CR:62:GLU:HB2	1.56	0.70
20:CT:57:ARG:NH1	20:CT:102:GLY:HA3	2.06	0.70
25:CZ:347:THR:HG22	25:CZ:348:ASP:N	2.05	0.70
36:DA:2721:A:H2'	36:DA:2722:G:H8	1.56	0.70
38:DC:23:ASP:CB	38:DC:27:ARG:HH12	2.00	0.70
43:DH:20:ALA:HB1	43:DH:21:PRO:CD	2.21	0.70
49:DQ:140:ALA:HB3	58:DZ:53:ILE:HD12	1.71	0.70
58:DZ:102:LEU:HD21	58:DZ:124:ILE:CD1	2.21	0.70
1:AA:781:A:H2'	1:AA:782:A:H5'	1.72	0.70
1:AA:1003:G:N2	1:AA:1039:C:H42	1.89	0.70
1:AA:1104:G:H4'	2:AB:111:ARG:NH1	2.06	0.70
1:AA:1442(B):A:H5''	52:BT:122:ASP:OD1	1.90	0.70
20:AT:104:LEU:HD23	20:AT:105:SER:N	2.06	0.70
22:AV:74:C:H42	36:BA:2252:G:H1	1.38	0.70
31:B5:2:ALA:N	36:BA:2015:A:H1'	2.07	0.70
36:BA:74:A:H5''	36:BA:75:G:H1'	1.73	0.70
36:BA:143(A):C:H4'	56:BX:38:GLU:OE1	1.92	0.70
36:BA:265:A:H1'	36:BA:266:G:O4'	1.91	0.70
36:BA:692:C:O2'	36:BA:693:C:H5'	1.90	0.70
36:BA:996:A:N6	36:BA:1160:G:C6	2.59	0.70
36:BA:1353:A:H2'	36:BA:1354:A:H8	1.54	0.70
36:BA:2189:U:H2'	36:BA:2190:G:C4'	2.21	0.70
39:BD:4:LYS:NZ	39:BD:20:ASP:HA	2.07	0.70
39:BD:175:LEU:HD12	39:BD:185:VAL:HG21	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:109:VAL:HG12	49:BQ:110:THR:N	2.06	0.70
57:BY:96:ILE:CG1	57:BY:99:CYS:HB3	2.19	0.70
1:CA:1305:G:O2'	1:CA:1306:A:H8	1.73	0.70
20:CT:50:GLU:HB2	20:CT:100:ILE:HD13	1.72	0.70
28:D2:3:LEU:HB3	36:DA:98:G:OP1	1.90	0.70
28:D2:4:SER:HA	28:D2:7:ARG:HD2	1.71	0.70
34:D8:43:GLN:O	34:D8:44:LYS:HD2	1.90	0.70
36:DA:2025:C:H2'	36:DA:2026:C:C6	2.26	0.70
36:DA:2064:C:H1'	36:DA:2450:A:C6	2.25	0.70
36:DA:2839:G:H1	36:DA:2878:U:H3	1.37	0.70
39:DD:59:LYS:HG3	39:DD:60:ARG:N	2.05	0.70
41:DF:108:LYS:O	41:DF:112:MET:HB2	1.90	0.70
41:DF:110:LEU:HD13	41:DF:111:ALA:N	2.06	0.70
43:DH:42:ARG:HB2	43:DH:42:ARG:NH1	2.06	0.70
49:DQ:27:VAL:HG23	49:DQ:137:TYR:CD1	2.26	0.70
49:DQ:37:LEU:HD11	49:DQ:129:THR:O	1.91	0.70
49:DQ:74:TYR:HD1	49:DQ:75:THR:H	1.39	0.70
51:DS:67:ARG:HH21	51:DS:100:ALA:CB	2.04	0.70
55:DW:8:ARG:CA	55:DW:102:HIS:HB3	2.15	0.70
58:DZ:79:ARG:O	58:DZ:80:ARG:C	2.28	0.70
1:AA:125:U:H2'	1:AA:126:G:C8	2.26	0.70
1:AA:983:A:N3	1:AA:983:A:H2'	2.04	0.70
2:AB:7:VAL:HA	2:AB:11:LEU:HG	1.73	0.70
2:AB:179:LYS:HA	8:AH:72:PRO:HD3	1.73	0.70
6:AF:99:ALA:HB3	18:AR:29:PHE:CE2	2.26	0.70
9:AI:7:THR:O	9:AI:80:GLY:HA2	1.90	0.70
20:AT:57:ARG:NH1	20:AT:103:GLY:N	2.38	0.70
24:AY:37:YG:H1'	24:AY:37:YG:H31	1.73	0.70
25:AZ:104:LEU:HD11	25:AZ:116:THR:HG23	1.72	0.70
25:AZ:193:ASN:HB3	25:AZ:196:VAL:HG23	1.73	0.70
27:B1:24:ALA:N	27:B1:32:LYS:HE3	2.06	0.70
28:B2:10:LEU:HA	28:B2:13:ALA:HB3	1.72	0.70
33:B7:41:ARG:HH22	36:BA:460:A:P	2.14	0.70
35:B9:7:VAL:HG13	35:B9:34:GLN:CG	2.21	0.70
36:BA:328:U:H4'	57:BY:68:HIS:NE2	2.06	0.70
36:BA:581:C:H2'	36:BA:582:G:C8	2.26	0.70
36:BA:619:G:H3'	36:BA:620:G:H21	1.57	0.70
36:BA:968:G:H2'	36:BA:969:U:C6	2.25	0.70
36:BA:1946:U:H2'	36:BA:1947:C:C6	2.26	0.70
36:BA:2074:U:H2'	36:BA:2075:U:C6	2.26	0.70
36:BA:2673:G:H8	36:BA:2673:G:H5'	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2781:A:H5''	36:BA:2782:G:H5'	1.72	0.70
40:BE:9:VAL:CG1	40:BE:25:VAL:HB	2.21	0.70
42:BG:87:PRO:HG2	42:BG:88:ILE:H	1.54	0.70
42:BG:161:THR:C	42:BG:163:ALA:H	1.94	0.70
46:BN:14:VAL:HG11	46:BN:137:LYS:HG3	1.73	0.70
1:CA:993:G:H2'	1:CA:993:G:N3	2.05	0.70
2:CB:7:VAL:HA	2:CB:11:LEU:HG	1.72	0.70
2:CB:134:GLU:C	2:CB:136:VAL:H	1.94	0.70
12:CL:83:VAL:HG12	12:CL:84:LEU:N	2.06	0.70
19:CS:40:ILE:HB	19:CS:67:VAL:O	1.91	0.70
31:D5:56:LYS:HE2	31:D5:59:GLU:OE2	1.92	0.70
36:DA:83:G:C2	36:DA:102:G:H2'	2.26	0.70
36:DA:330:A:C2	36:DA:1210:A:H2'	2.21	0.70
36:DA:612:C:O2'	36:DA:613:G:H5''	1.91	0.70
36:DA:1060:U:H1'	36:DA:1061:U:O5'	1.91	0.70
36:DA:1162:G:H4'	54:DV:24:LYS:HB2	1.71	0.70
36:DA:1946:U:H2'	36:DA:1947:C:C6	2.26	0.70
36:DA:2475:C:H42	36:DA:2529:G:H22	1.38	0.70
37:DB:103:G:N2	58:DZ:73:GLN:OE1	2.23	0.70
37:DB:106:G:H2'	37:DB:107:G:C8	2.23	0.70
1:AA:250:A:H4'	1:AA:251:G:O5'	1.91	0.70
1:AA:1321:C:H5''	1:AA:1322:C:H5''	1.73	0.70
8:AH:98:LYS:HG3	8:AH:99:GLU:HG3	1.73	0.70
13:AM:14:ARG:O	13:AM:17:VAL:HB	1.91	0.70
19:AS:9:VAL:O	19:AS:11:VAL:HG12	1.91	0.70
25:AZ:376:LYS:O	25:AZ:378:VAL:HG13	1.92	0.70
29:B3:27:GLY:C	29:B3:28:LEU:HD23	2.10	0.70
36:BA:189:G:H2'	36:BA:205:G:N2	2.06	0.70
36:BA:438:G:H2'	36:BA:440:G:C8	2.26	0.70
36:BA:572:A:H61	36:BA:2029:G:H21	1.38	0.70
36:BA:660:G:H5'	41:BF:99:TYR:CD2	2.27	0.70
36:BA:1290:C:H2'	36:BA:1291:C:C6	2.26	0.70
36:BA:1385:G:H4'	36:BA:1386:C:OP1	1.90	0.70
36:BA:2881:C:H2'	36:BA:2882:A:C8	2.26	0.70
38:BC:22:ILE:HG13	38:BC:228:SER:OG	1.92	0.70
46:BN:35:ARG:O	46:BN:35:ARG:HG3	1.91	0.70
50:BR:34:ILE:HB	50:BR:114:VAL:HG23	1.72	0.70
1:CA:142:G:H1	1:CA:221:C:H42	1.39	0.70
1:CA:473:G:H2'	1:CA:474:G:C8	2.25	0.70
1:CA:707:C:O2'	1:CA:708:C:H5'	1.90	0.70
1:CA:1375:A:H2'	1:CA:1376:U:O4'	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:18:GLY:H	2:CB:42:ILE:CG2	2.04	0.70
2:CB:121:LEU:HA	2:CB:124:SER:HB3	1.72	0.70
5:CE:94:ALA:HB3	5:CE:117:ASP:O	1.92	0.70
6:CF:99:ALA:HB3	18:CR:29:PHE:CE2	2.25	0.70
9:CI:43:ALA:C	9:CI:45:ALA:H	1.92	0.70
9:CI:110:GLU:HG2	9:CI:113:LYS:NZ	2.07	0.70
10:CJ:92:THR:HG23	10:CJ:93:GLY:N	2.05	0.70
36:DA:55:G:HO2'	36:DA:127:A:H2	1.39	0.70
36:DA:2071:A:H2'	36:DA:2072:G:C8	2.26	0.70
36:DA:2496:C:OP1	49:DQ:83:MET:HG2	1.90	0.70
38:DC:137:LEU:O	38:DC:139:ASN:N	2.23	0.70
40:DE:47:VAL:HG23	40:DE:84:PHE:O	1.91	0.70
41:DF:136:THR:O	41:DF:140:LEU:HB2	1.91	0.70
46:DN:5:VAL:HG12	46:DN:7:LYS:HG3	1.74	0.70
46:DN:58:ASP:C	46:DN:60:ILE:H	1.93	0.70
47:DO:17:ARG:O	47:DO:18:LYS:HB2	1.91	0.70
51:DS:72:ALA:O	51:DS:75:GLU:HB3	1.91	0.70
58:DZ:40:ASP:OD1	58:DZ:42:VAL:HG12	1.92	0.70
1:AA:9:G:OP1	5:AE:122:GLU:HG3	1.91	0.70
1:AA:662:G:H2'	1:AA:663:A:H8	1.57	0.70
6:AF:69:GLU:O	6:AF:72:VAL:HG12	1.90	0.70
36:BA:31:C:H2'	36:BA:32:C:C5'	2.21	0.70
36:BA:686:G:N2	36:BA:788:A:H61	1.89	0.70
36:BA:1657:C:O5'	36:BA:1657:C:H6	1.73	0.70
36:BA:2144:U:H2'	36:BA:2146:C:C5	2.25	0.70
38:BC:103:ILE:O	38:BC:103:ILE:HG22	1.91	0.70
39:BD:24:ILE:O	39:BD:25:THR:O	2.09	0.70
46:BN:75:TYR:CD1	46:BN:82:LEU:HB2	2.23	0.70
47:BO:23:ARG:HG3	47:BO:24:VAL:N	2.06	0.70
52:BT:89:VAL:HG12	52:BT:91:ARG:HG3	1.73	0.70
53:BU:14:HIS:HD2	53:BU:32:PHE:CB	2.04	0.70
56:BX:12:VAL:HG12	56:BX:27:THR:C	2.11	0.70
1:CA:254:G:N2	17:CQ:16:GLN:HE22	1.89	0.70
1:CA:390:C:O3'	16:CP:28:ARG:NH1	2.25	0.70
1:CA:409:G:C5'	4:CD:25:ARG:HB2	2.21	0.70
2:CB:200:ILE:HG22	2:CB:202:PRO:HD3	1.73	0.70
6:CF:69:GLU:O	6:CF:72:VAL:HG12	1.92	0.70
10:CJ:92:THR:HG23	10:CJ:93:GLY:H	1.57	0.70
20:CT:57:ARG:NH1	20:CT:103:GLY:N	2.39	0.70
20:CT:59:ALA:O	20:CT:63:ILE:HG13	1.92	0.70
25:CZ:164:PRO:O	25:CZ:168:VAL:HG23	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:10:ALA:O	34:D8:14:VAL:HG12	1.90	0.70
36:DA:25:U:C5'	55:DW:79:GLY:HA2	2.21	0.70
36:DA:1902:C:H4'	39:DD:244:ARG:HB2	1.73	0.70
36:DA:2482:G:H22	49:DQ:52:VAL:CG1	2.03	0.70
36:DA:2502:G:C5'	36:DA:2503:A:H5''	2.15	0.70
36:DA:2653:U:H3'	36:DA:2654:A:H8	1.54	0.70
37:DB:51:G:H2'	37:DB:52:A:C8	2.26	0.70
38:DC:40:THR:HG23	38:DC:177:LYS:HD2	1.73	0.70
41:DF:29:ASN:O	41:DF:33:LEU:HD23	1.91	0.70
41:DF:37:VAL:HG22	41:DF:183:VAL:HG23	1.73	0.70
42:DG:16:ARG:HD2	42:DG:20:ILE:HD11	1.74	0.70
44:DJ:56:UNK:HA	44:DJ:83:UNK:HA	1.74	0.70
46:DN:28:THR:CG2	46:DN:29:LYS:H	2.04	0.70
49:DQ:70:PRO:O	49:DQ:93:TYR:HB3	1.92	0.70
50:DR:55:ALA:HA	50:DR:80:PHE:CE1	2.26	0.70
52:DT:28:VAL:HG21	52:DT:46:GLU:HA	1.72	0.70
54:DV:49:THR:HB	54:DV:50:PRO:CD	2.21	0.70
1:AA:409:G:C5'	4:AD:25:ARG:HB2	2.22	0.70
1:AA:1321:C:H3'	1:AA:1322:C:H5''	1.72	0.70
7:AG:63:LYS:NZ	7:AG:67:GLU:HB2	2.05	0.70
36:BA:1065:U:O2'	36:BA:1066:U:H5''	1.92	0.70
36:BA:1458:C:H4'	36:BA:1459:G:O4'	1.92	0.70
36:BA:1771:C:C4	36:BA:1772:G:N7	2.60	0.70
36:BA:2071:A:H2'	36:BA:2072:G:C8	2.27	0.70
39:BD:63:ARG:HH11	39:BD:63:ARG:HG3	1.55	0.70
43:BH:42:ARG:HB2	43:BH:42:ARG:NH1	2.06	0.70
46:BN:55:VAL:HG22	46:BN:56:ASN:H	1.57	0.70
49:BQ:55:VAL:HG23	58:BZ:178:GLU:CD	2.12	0.70
54:BV:49:THR:HB	54:BV:50:PRO:CD	2.20	0.70
57:BY:97:ARG:O	57:BY:97:ARG:HG3	1.91	0.70
1:CA:321:A:O2'	1:CA:322:C:H5'	1.91	0.70
1:CA:1321:C:H3'	1:CA:1322:C:H5''	1.73	0.70
7:CG:69:VAL:HG11	7:CG:104:LEU:CD2	2.18	0.70
7:CG:100:ALA:O	7:CG:104:LEU:HD23	1.91	0.70
12:CL:18:VAL:CG2	12:CL:19:ARG:H	1.97	0.70
13:CM:97:PRO:HA	13:CM:110:ARG:CD	2.17	0.70
28:D2:68:ARG:NH2	28:D2:72:ALA:HB1	2.06	0.70
32:D6:12:GLU:CD	32:D6:54:ILE:HG22	2.12	0.70
36:DA:1484:G:H2'	36:DA:1485:G:C5'	2.17	0.70
36:DA:2228:G:OP1	39:DD:261:LYS:HE3	1.91	0.70
36:DA:2708:G:H2'	36:DA:2709:G:H8	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:92:ARG:HD2	54:DV:11:GLN:HG2	1.71	0.70
53:DU:95:LEU:HD12	54:DV:11:GLN:HG3	1.71	0.70
54:DV:88:ARG:O	54:DV:90:PRO:HD3	1.91	0.70
1:AA:1401:G:O2'	1:AA:1402:C:H5'	1.92	0.70
1:AA:1417:G:N2	1:AA:1482:G:H2'	2.06	0.70
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.92	0.70
13:AM:108:ARG:HH11	13:AM:108:ARG:HA	1.56	0.70
20:AT:57:ARG:HB2	20:AT:57:ARG:HH11	1.55	0.70
24:AY:33:U:H2'	24:AY:34:G:H3'	1.71	0.70
27:B1:35:THR:HG23	27:B1:35:THR:O	1.92	0.70
36:BA:34:C:N4	36:BA:447:A:H61	1.90	0.70
36:BA:191:A:O2'	36:BA:192:C:H5'	1.92	0.70
36:BA:398:G:H2'	36:BA:399:G:C8	2.27	0.70
36:BA:654(V):A:H8	36:BA:655:A:H2'	1.56	0.70
36:BA:2574:G:H2'	36:BA:2575:C:O4'	1.92	0.70
39:BD:64:ILE:HG13	39:BD:65:ILE:N	2.05	0.70
42:BG:51:ARG:HA	42:BG:51:ARG:NE	2.05	0.70
43:BH:61:HIS:C	43:BH:63:SER:H	1.95	0.70
1:CA:1087:G:N2	1:CA:1099:G:H1'	2.06	0.70
1:CA:1440:C:H2'	1:CA:1441:G:H5'	1.73	0.70
2:CB:21:ARG:NE	2:CB:39:ILE:HG12	2.06	0.70
2:CB:36:ARG:C	2:CB:38:GLY:H	1.94	0.70
5:CE:39:GLY:HA2	5:CE:69:VAL:HB	1.74	0.70
7:CG:20:ASP:HB3	7:CG:23:VAL:HG23	1.74	0.70
13:CM:3:ARG:HB2	30:D4:34:GLU:HG2	1.74	0.70
25:CZ:193:ASN:HB3	25:CZ:196:VAL:HG23	1.74	0.70
36:DA:139:G:C6	36:DA:140:G:H2'	2.26	0.70
36:DA:570:G:H2'	36:DA:2030:A:N7	2.05	0.70
36:DA:996:A:H4'	53:DU:92:ARG:HG2	1.74	0.70
36:DA:1170:G:H1	36:DA:1179:C:N4	1.88	0.70
36:DA:1251:C:OP2	53:DU:10:ARG:NE	2.24	0.70
36:DA:1297:C:H2'	36:DA:1298:C:C6	2.27	0.70
36:DA:1817:G:O2'	36:DA:1818:U:H5'	1.91	0.70
36:DA:2260:C:H42	36:DA:2280:G:H1	1.40	0.70
53:DU:88:ILE:O	53:DU:88:ILE:HG13	1.91	0.70
58:DZ:165:VAL:HG12	58:DZ:166:SER:N	2.06	0.70
1:AA:652:U:O2'	1:AA:653:A:H5''	1.92	0.70
1:AA:1502:A:H2	1:AA:1505:G:H1	1.37	0.70
1:AA:1531:A:H8	1:AA:1531:A:O5'	1.74	0.70
4:AD:121:VAL:HG12	4:AD:134:ASP:HA	1.72	0.70
10:AJ:31:GLY:HA3	10:AJ:78:ASN:ND2	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:32:GLU:O	13:AM:35:GLU:HG2	1.91	0.70
18:AR:47:THR:HG21	18:AR:49:LYS:HZ1	1.55	0.70
28:B2:54:LYS:HG2	36:BA:73:A:OP1	1.91	0.70
36:BA:716:A:H2'	36:BA:717:G:H5''	1.74	0.70
36:BA:2690:C:H4'	36:BA:2872:G:N2	2.07	0.70
36:BA:2745:C:H1'	43:BH:143:GLN:HG2	1.72	0.70
37:BB:17:C:H2'	37:BB:18:G:C8	2.27	0.70
41:BF:155:LEU:HD11	41:BF:176:LEU:HD22	1.73	0.70
55:BW:8:ARG:CA	55:BW:102:HIS:HB3	2.14	0.70
1:CA:18:C:C5'	5:CE:127:ASN:HD21	2.04	0.70
1:CA:84:U:H2'	1:CA:88:A:H5'	1.73	0.70
1:CA:1226:C:H6	13:CM:103:THR:HG1	1.39	0.70
1:CA:1432:G:OP1	52:DT:107:ASP:HB2	1.91	0.70
4:CD:133:VAL:HG13	4:CD:135:LEU:HD22	1.73	0.70
5:CE:64:ARG:O	5:CE:66:MET:HE2	1.90	0.70
5:CE:135:THR:O	5:CE:138:ALA:HB3	1.91	0.70
11:CK:20:TYR:C	11:CK:21:ILE:HD12	2.12	0.70
22:CV:74:C:H42	36:DA:2252:G:H1	1.39	0.70
28:D2:47:ASN:O	28:D2:50:ILE:HD13	1.91	0.70
32:D6:36:LEU:HD12	32:D6:50:ARG:CZ	2.22	0.70
36:DA:61:G:H1	36:DA:94:C:H42	1.39	0.70
36:DA:584:C:H2'	36:DA:585:G:H5'	1.73	0.70
36:DA:2111:C:N4	36:DA:2145:C:H2'	2.07	0.70
39:DD:140:THR:O	39:DD:165:ILE:HG12	1.92	0.70
42:DG:86:MET:N	42:DG:87:PRO:HD3	2.06	0.70
42:DG:106:LEU:HD12	42:DG:110:ALA:CB	2.22	0.70
46:DN:107:LEU:HB3	46:DN:108:PRO:HD2	1.74	0.70
54:DV:49:THR:HB	54:DV:50:PRO:HD2	1.74	0.70
57:DY:81:LYS:HD2	57:DY:96:ILE:HD12	1.72	0.70
4:AD:173:TRP:HB3	4:AD:187:ARG:NH2	2.06	0.70
28:B2:21:LEU:HD23	28:B2:24:LEU:HB3	1.74	0.70
29:B3:1:MET:HE1	29:B3:40:THR:HA	1.73	0.70
36:BA:25:U:C5'	55:BW:79:GLY:HA2	2.22	0.70
36:BA:118:A:N3	36:BA:178:G:H1'	2.07	0.70
36:BA:811:U:H5	48:BP:24:GLY:HA3	1.57	0.70
36:BA:1062:G:C2	36:BA:1063:G:H1'	2.27	0.70
36:BA:2064:C:H1'	36:BA:2450:A:C6	2.27	0.70
36:BA:2475:C:H42	36:BA:2529:G:H22	1.36	0.70
36:BA:2523:G:H2'	36:BA:2524:G:C5'	2.13	0.70
36:BA:2820:A:N6	40:BE:192:ASN:HB3	2.05	0.70
42:BG:60:LEU:HA	42:BG:63:ILE:HD11	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:60:LEU:O	50:BR:63:ARG:HB2	1.91	0.70
50:BR:73:VAL:O	50:BR:76:VAL:HG12	1.92	0.70
52:BT:50:ILE:HG23	52:BT:99:LEU:HD12	1.73	0.70
52:BT:113:LYS:O	52:BT:114:LEU:HD23	1.92	0.70
2:CB:7:VAL:HG13	2:CB:11:LEU:HD11	1.73	0.70
5:CE:144:THR:O	5:CE:148:VAL:HG23	1.91	0.70
25:CZ:225:VAL:HG12	25:CZ:300:ARG:HA	1.74	0.70
31:D5:40:LYS:HZ3	31:D5:45:VAL:HA	1.57	0.70
32:D6:8:LYS:HE3	32:D6:25:LYS:HD3	1.73	0.70
36:DA:92:A:H2'	36:DA:93:G:O4'	1.92	0.70
36:DA:111:A:H2'	36:DA:112:U:O4'	1.92	0.70
36:DA:438:G:H2'	36:DA:440:G:C8	2.26	0.70
36:DA:692:C:O2'	36:DA:693:C:H5'	1.91	0.70
36:DA:2472:G:H2'	36:DA:2475:C:N4	2.06	0.70
42:DG:55:LYS:O	42:DG:55:LYS:HD3	1.91	0.70
47:DO:107:ARG:HH11	52:DT:36:GLU:HG3	1.57	0.70
50:DR:24:GLN:HB2	50:DR:44:LEU:HD21	1.73	0.70
53:DU:49:HIS:HA	53:DU:52:ARG:HB2	1.73	0.70
55:DW:12:ILE:HB	55:DW:42:ARG:HH12	1.56	0.70
58:DZ:24:LEU:HD12	58:DZ:41:LEU:HA	1.74	0.70
58:DZ:71:VAL:HG11	58:DZ:74:VAL:HG23	1.74	0.70
1:AA:1352:C:H42	1:AA:1370:G:H1	1.38	0.70
1:AA:1437:C:H2'	1:AA:1438:G:H8	1.54	0.70
6:AF:2:ARG:HD2	6:AF:69:GLU:HB3	1.73	0.70
8:AH:14:ARG:CB	8:AH:14:ARG:HH11	2.05	0.70
8:AH:64:LYS:HG2	8:AH:65:TYR:N	2.07	0.70
15:AO:82:ILE:HG23	15:AO:83:GLU:N	2.05	0.70
28:B2:57:ILE:O	28:B2:61:LEU:HG	1.92	0.70
32:B6:15:GLU:CD	32:B6:18:ARG:CZ	2.61	0.70
36:BA:330:A:C2	36:BA:1210:A:H2'	2.22	0.70
36:BA:1999:C:H2'	36:BA:2000:G:H8	1.56	0.70
38:BC:47:LEU:HD12	38:BC:47:LEU:N	2.07	0.70
39:BD:154:LYS:C	39:BD:155:LEU:HD12	2.12	0.70
41:BF:43:LYS:HB3	41:BF:98:SER:HB3	1.74	0.70
42:BG:66:GLN:C	42:BG:67:LYS:HD3	2.11	0.70
43:BH:37:VAL:HG12	43:BH:38:SER:N	2.03	0.70
52:BT:28:VAL:HG21	52:BT:46:GLU:HA	1.74	0.70
55:BW:12:ILE:HD12	55:BW:42:ARG:HH11	1.56	0.70
55:BW:14:PRO:HG3	55:BW:101:SER:OG	1.91	0.70
1:CA:328:C:H4'	1:CA:329:A:H5'	1.74	0.70
1:CA:426:G:H2'	1:CA:427:U:C6	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:851:G:H2'	1:CA:852:G:H8	1.57	0.70
1:CA:1054:C:H3'	1:CA:1054:C:O2	1.91	0.70
3:CC:94:LEU:HD12	3:CC:94:LEU:O	1.92	0.70
4:CD:100:ARG:HG2	4:CD:102:ASP:OD1	1.92	0.70
16:CP:21:VAL:HG12	16:CP:34:GLU:O	1.91	0.70
25:CZ:234:ARG:HB3	25:CZ:289:LEU:CD1	2.22	0.70
36:DA:547:A:H2'	36:DA:548:A:H8	1.57	0.70
36:DA:958:U:H5''	49:DQ:14:ARG:HD3	1.74	0.70
36:DA:1578:U:C2'	36:DA:1579:A:H5''	2.20	0.70
36:DA:2772:C:H2'	36:DA:2773:C:C6	2.26	0.70
36:DA:2820:A:N6	40:DE:192:ASN:HB3	2.07	0.70
40:DE:87:GLU:O	40:DE:89:ASP:N	2.18	0.70
42:DG:106:LEU:HD12	42:DG:110:ALA:HB3	1.74	0.70
43:DH:37:VAL:HG12	43:DH:38:SER:N	2.05	0.70
48:DP:86:LYS:HB3	48:DP:86:LYS:NZ	2.07	0.70
52:DT:89:VAL:HG21	52:DT:91:ARG:HH21	1.57	0.70
1:AA:412:A:H4'	1:AA:413:G:H8	1.54	0.69
1:AA:1119:C:H2'	1:AA:1120:G:C8	2.26	0.69
1:AA:1436:U:H3	1:AA:1465:C:H42	1.41	0.69
25:AZ:38:GLU:CB	25:AZ:189:ARG:NH1	2.52	0.69
32:B6:15:GLU:HB2	32:B6:20:ASN:HB3	1.74	0.69
32:B6:53:LYS:CG	32:B6:54:ILE:N	2.55	0.69
36:BA:448:U:O4	36:BA:583:G:H1'	1.92	0.69
36:BA:1060:U:H1'	36:BA:1061:U:O5'	1.92	0.69
36:BA:1224:C:O3'	54:BV:86:GLY:HA3	1.91	0.69
38:BC:161:ILE:C	38:BC:161:ILE:HD12	2.13	0.69
40:BE:34:VAL:O	40:BE:34:VAL:HG22	1.92	0.69
46:BN:21:LYS:HE3	46:BN:25:ARG:CB	2.22	0.69
48:BP:23:PRO:HB3	48:BP:29:LYS:HB3	1.74	0.69
51:BS:98:VAL:HG12	51:BS:100:ALA:H	1.55	0.69
55:BW:40:ASN:O	55:BW:41:LYS:HG2	1.91	0.69
1:CA:918:A:H2'	1:CA:919:A:C8	2.28	0.69
1:CA:956:U:O2'	1:CA:957:U:H5'	1.92	0.69
1:CA:1250:A:H4'	9:CI:68:GLY:N	2.07	0.69
2:CB:102:LEU:HD23	2:CB:182:ILE:CD1	2.22	0.69
18:CR:58:LEU:CD2	18:CR:62:GLU:HB3	2.22	0.69
18:CR:73:ALA:CB	18:CR:79:LEU:HD12	2.22	0.69
26:D0:7:LEU:HD13	49:DQ:85:LYS:HG3	1.71	0.69
36:DA:68:G:H2'	36:DA:69:C:C6	2.27	0.69
36:DA:458:G:N2	36:DA:469:G:H2'	2.07	0.69
36:DA:1087:G:H21	36:DA:1103:A:H61	1.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1458:C:H4'	36:DA:1459:G:O4'	1.92	0.69
36:DA:1654:A:OP1	50:DR:2:ARG:HA	1.91	0.69
41:DF:61:GLY:O	41:DF:62:ARG:C	2.30	0.69
46:DN:40:PRO:CB	53:DU:68:ALA:HB2	2.22	0.69
51:DS:106:ARG:HD2	51:DS:107:GLU:N	2.07	0.69
52:DT:89:VAL:HG12	52:DT:91:ARG:HG3	1.74	0.69
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.58	0.69
22:AW:62:C:H2'	22:AW:63:G:H8	1.57	0.69
25:AZ:252:GLU:OE2	25:AZ:264:ARG:HD2	1.92	0.69
32:B6:53:LYS:CG	32:B6:54:ILE:H	2.04	0.69
36:BA:83:G:C2	36:BA:102:G:H2'	2.27	0.69
38:BC:28:LEU:O	38:BC:28:LEU:HD23	1.92	0.69
47:BO:11:ALA:CB	47:BO:98:VAL:HG23	2.22	0.69
50:BR:10:LEU:O	50:BR:11:ASN:HB2	1.90	0.69
52:BT:67:SER:O	52:BT:68:TYR:HB2	1.90	0.69
54:BV:28:GLU:O	54:BV:61:VAL:HG21	1.92	0.69
1:CA:642:A:H1'	8:CH:113:SER:OG	1.92	0.69
4:CD:149:ALA:O	4:CD:153:ARG:HG3	1.91	0.69
20:CT:73:HIS:O	20:CT:76:ALA:HB3	1.91	0.69
33:D7:30:VAL:CG1	36:DA:466:A:H4'	2.22	0.69
33:D7:41:ARG:HH22	36:DA:460:A:P	2.15	0.69
36:DA:298:G:H21	36:DA:339:U:H5	1.39	0.69
36:DA:1041:C:O2'	36:DA:1042:G:H5'	1.90	0.69
36:DA:1058:G:H2'	36:DA:1059:G:C5'	2.22	0.69
36:DA:1175:U:O3'	36:DA:1176:G:H3'	1.92	0.69
36:DA:1818:U:C2'	39:DD:157:ARG:HG3	2.21	0.69
36:DA:2640:G:C2'	36:DA:2641:G:H5''	2.22	0.69
49:DQ:132:VAL:HG11	58:DZ:81:ARG:HD2	1.74	0.69
51:DS:12:PHE:O	51:DS:14:VAL:HG23	1.91	0.69
55:DW:14:PRO:CG	55:DW:78:GLU:HB2	2.21	0.69
55:DW:50:VAL:O	55:DW:105:VAL:HG21	1.91	0.69
58:DZ:58:VAL:HA	58:DZ:67:LEU:O	1.92	0.69
1:AA:751:U:H4'	15:AO:24:SER:CB	2.22	0.69
3:AC:95:THR:CG2	3:AC:97:LYS:HG3	2.21	0.69
20:AT:56:MET:HG3	20:AT:84:LEU:HG	1.73	0.69
25:AZ:143:ASP:O	25:AZ:147:LEU:HD23	1.91	0.69
31:B5:43:HIS:CE1	36:BA:2816:C:H1'	2.27	0.69
36:BA:271(U):G:O2'	36:BA:271(V):G:H5'	1.92	0.69
36:BA:298:G:H21	36:BA:339:U:H5	1.40	0.69
36:BA:1827:C:H2'	36:BA:1828:G:O4'	1.93	0.69
40:BE:47:VAL:HG21	40:BE:86:PRO:HD2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:154:VAL:HG13	41:BF:191:ARG:O	1.91	0.69
42:BG:62:LEU:HD12	42:BG:62:LEU:H	1.57	0.69
42:BG:77:ILE:HG22	42:BG:80:PHE:H	1.56	0.69
48:BP:105:LEU:HD12	48:BP:105:LEU:H	1.57	0.69
51:BS:83:LYS:HG2	51:BS:105:ALA:HB2	1.73	0.69
53:BU:107:ALA:O	53:BU:110:VAL:HB	1.93	0.69
57:BY:81:LYS:HD2	57:BY:96:ILE:HD12	1.74	0.69
1:CA:520:A:N1	1:CA:536:C:H1'	2.07	0.69
1:CA:662:G:H2'	1:CA:663:A:H8	1.58	0.69
4:CD:170:VAL:HG12	4:CD:171:GLY:N	2.07	0.69
7:CG:70:LYS:C	7:CG:138:LYS:HE3	2.13	0.69
20:CT:57:ARG:HB2	20:CT:57:ARG:HH11	1.58	0.69
29:D3:12:PRO:HG2	29:D3:13:ILE:H	1.57	0.69
36:DA:94(A):G:H2'	36:DA:95:G:C5'	2.18	0.69
36:DA:265:A:H1'	36:DA:266:G:O4'	1.92	0.69
36:DA:669:G:N3	36:DA:669:G:H2'	2.06	0.69
36:DA:1246:A:H2'	36:DA:1247:A:H5'	1.74	0.69
36:DA:2201:C:H2'	36:DA:2202:C:C6	2.27	0.69
39:DD:76:PRO:HG2	39:DD:98:VAL:HG21	1.74	0.69
42:DG:7:LEU:HD13	42:DG:100:TRP:HE3	1.58	0.69
47:DO:86:ILE:HG22	47:DO:94:ARG:HB2	1.74	0.69
56:DX:63:LYS:HE2	56:DX:72:LYS:HG2	1.72	0.69
1:AA:769:G:O2'	1:AA:770:C:H5'	1.93	0.69
7:AG:120:ILE:O	7:AG:124:LEU:HB2	1.92	0.69
20:AT:45:GLN:HB3	20:AT:91:LEU:HD13	1.74	0.69
28:B2:14:ARG:O	28:B2:67:LYS:NZ	2.24	0.69
36:BA:1087:G:H21	36:BA:1103:A:H61	1.40	0.69
36:BA:1099:G:H2'	36:BA:1100:C:C6	2.26	0.69
36:BA:1343:G:H2'	36:BA:1344:G:H5'	1.74	0.69
36:BA:1549:C:H2'	36:BA:1550:C:H5'	1.74	0.69
36:BA:2708:G:H2'	36:BA:2709:G:H8	1.56	0.69
36:BA:2892:A:H62	36:BA:2893:G:N2	1.86	0.69
38:BC:98:GLU:C	38:BC:100:ILE:H	1.94	0.69
41:BF:131:GLY:HA2	41:BF:138:GLU:OE1	1.92	0.69
42:BG:60:LEU:HD13	42:BG:63:ILE:HD11	1.73	0.69
50:BR:24:GLN:HB2	50:BR:44:LEU:HD21	1.72	0.69
52:BT:13:ARG:NE	52:BT:13:ARG:HA	2.07	0.69
58:BZ:163:LEU:HD21	58:BZ:165:VAL:CG2	2.22	0.69
1:CA:1527:C:H2'	1:CA:1528:U:C6	2.27	0.69
2:CB:204:ASN:HD21	2:CB:206:ASP:H	1.39	0.69
3:CC:64:VAL:O	3:CC:100:ALA:HB3	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:207:VAL:O	3:CC:207:VAL:HG12	1.92	0.69
9:CI:4:TYR:CE2	9:CI:88:TYR:HB2	2.27	0.69
9:CI:17:VAL:HG11	9:CI:81:ILE:HD13	1.74	0.69
10:CJ:31:GLY:HA3	10:CJ:78:ASN:ND2	2.07	0.69
10:CJ:38:ILE:HD11	10:CJ:71:LEU:CD2	2.23	0.69
12:CL:92:ASP:O	12:CL:93:LEU:HD23	1.92	0.69
22:CW:59:U:H2'	22:CW:60:U:H5'	1.73	0.69
24:CY:29:C:H42	24:CY:41:G:H1	1.41	0.69
26:D0:41:ARG:NH2	36:DA:2387:U:H1'	2.07	0.69
29:D3:27:GLY:C	29:D3:28:LEU:HD23	2.12	0.69
31:D5:2:ALA:N	36:DA:2015:A:H1'	2.07	0.69
36:DA:31:C:H2'	36:DA:32:C:C5'	2.21	0.69
36:DA:442:G:O4'	41:DF:46:ARG:HD3	1.92	0.69
36:DA:1064:C:H3'	36:DA:1065:U:C5'	2.20	0.69
36:DA:2023:G:H5'	36:DA:2617:C:H4'	1.75	0.69
36:DA:2037:G:H2'	36:DA:2038:G:C8	2.27	0.69
38:DC:161:ILE:C	38:DC:161:ILE:HD12	2.12	0.69
40:DE:169:ASN:ND2	40:DE:169:ASN:O	2.22	0.69
41:DF:139:PHE:CE1	41:DF:143:ALA:HB2	2.27	0.69
46:DN:129:PRO:O	46:DN:130:HIS:HB3	1.90	0.69
49:DQ:63:LYS:HD2	58:DZ:175:VAL:HG21	1.74	0.69
50:DR:100:LEU:HD22	50:DR:100:LEU:H	1.55	0.69
58:DZ:168:GLU:O	58:DZ:168:GLU:HG3	1.93	0.69
1:AA:967:C:H2'	1:AA:968:A:C8	2.27	0.69
1:AA:1337:G:H5''	1:AA:1338:G:OP1	1.91	0.69
1:AA:1375:A:H2'	1:AA:1376:U:O4'	1.93	0.69
7:AG:69:VAL:C	7:AG:138:LYS:HD2	2.13	0.69
8:AH:14:ARG:HG3	8:AH:83:ILE:HG23	1.75	0.69
9:AI:4:TYR:HA	9:AI:88:TYR:CE1	2.28	0.69
14:AN:22:THR:O	14:AN:23:ARG:HB3	1.91	0.69
28:B2:47:ASN:ND2	36:BA:94(A):G:H21	1.90	0.69
28:B2:53:LEU:HA	28:B2:56:GLN:HB2	1.74	0.69
36:BA:747:U:H5	36:BA:2613:U:C5	2.10	0.69
36:BA:1019:U:H3	36:BA:1142(A):A:H62	1.41	0.69
36:BA:1428:C:N4	36:BA:1569:A:H3'	2.07	0.69
36:BA:1516:C:C3'	36:BA:1517:G:H5''	2.21	0.69
36:BA:2866:U:C6	36:BA:2868:A:H1'	2.26	0.69
38:BC:137:LEU:O	38:BC:139:ASN:N	2.24	0.69
40:BE:169:ASN:ND2	40:BE:169:ASN:O	2.25	0.69
41:BF:108:LYS:O	41:BF:112:MET:HB2	1.92	0.69
42:BG:47:LYS:HZ1	42:BG:81:LYS:HB3	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:76:SER:OG	42:BG:83:ARG:HB3	1.93	0.69
42:BG:155:MET:O	42:BG:157:ILE:HG13	1.92	0.69
48:BP:102:ARG:HB2	48:BP:102:ARG:NH2	2.07	0.69
50:BR:100:LEU:HD22	50:BR:100:LEU:N	2.08	0.69
1:CA:346:G:C5'	52:DT:41:ARG:HH21	2.03	0.69
1:CA:621:A:O2'	1:CA:622:A:H5'	1.92	0.69
1:CA:1119:C:H2'	1:CA:1120:G:C8	2.27	0.69
3:CC:68:VAL:HG12	3:CC:70:VAL:CG2	2.22	0.69
4:CD:88:VAL:HG12	4:CD:90:GLY:H	1.58	0.69
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.25	0.69
14:CN:12:ARG:C	14:CN:14:PRO:HD2	2.12	0.69
27:D1:13:ILE:HD11	36:DA:396:G:C5'	2.11	0.69
36:DA:628:G:C2'	36:DA:629:G:H5''	2.23	0.69
36:DA:764:A:H3'	36:DA:765:G:H5'	1.72	0.69
36:DA:1224:C:O3'	54:DV:86:GLY:HA3	1.92	0.69
36:DA:1657:C:O5'	36:DA:1657:C:H6	1.74	0.69
36:DA:2707:G:O2'	36:DA:2708:G:H5'	1.93	0.69
38:DC:79:LYS:HG2	38:DC:118:ASP:OD2	1.93	0.69
43:DH:87:LEU:HD23	43:DH:164:TYR:HA	1.74	0.69
49:DQ:44:ALA:O	49:DQ:47:ILE:HB	1.91	0.69
54:DV:39:LEU:HD22	54:DV:39:LEU:H	1.55	0.69
1:AA:386:C:H2'	1:AA:387:U:C5'	2.18	0.69
1:AA:390:C:O3'	16:AP:28:ARG:NH1	2.25	0.69
1:AA:1054:C:C6	1:AA:1196:U:C4	2.80	0.69
11:AK:27:ASN:HA	11:AK:56:GLY:HA2	1.73	0.69
14:AN:60:SER:O	14:AN:61:TRP:HB3	1.92	0.69
20:AT:57:ARG:NH1	20:AT:102:GLY:HA3	2.08	0.69
20:AT:62:LEU:O	20:AT:62:LEU:HD23	1.91	0.69
25:AZ:67:HIS:HA	25:AZ:79:HIS:O	1.93	0.69
25:AZ:234:ARG:HD2	25:AZ:289:LEU:CD2	2.22	0.69
25:AZ:342:PHE:CD2	25:AZ:388:ILE:HG12	2.28	0.69
29:B3:23:LEU:C	29:B3:25:ALA:H	1.93	0.69
33:B7:11:LYS:HE2	36:BA:686:G:N3	2.07	0.69
36:BA:130:C:O3'	36:BA:1349:A:H1'	1.93	0.69
36:BA:272(B):G:H1	36:BA:366:C:H42	1.38	0.69
36:BA:635:C:H2'	36:BA:636:G:O4'	1.91	0.69
36:BA:1564:C:O2'	36:BA:1565:C:H5'	1.92	0.69
38:BC:2:LYS:HD3	38:BC:2:LYS:O	1.93	0.69
46:BN:38:HIS:C	53:BU:67:ALA:HB1	2.12	0.69
49:BQ:43:THR:OG1	49:BQ:46:GLN:HG3	1.92	0.69
1:CA:807:A:H2'	1:CA:808:C:C6	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.58	0.69
6:CF:19:LEU:HD23	6:CF:20:ALA:N	2.08	0.69
13:CM:2:ALA:O	13:CM:9:ILE:HG23	1.92	0.69
22:CW:3:C:H2'	22:CW:4:C:O4'	1.91	0.69
25:CZ:139:ASP:O	25:CZ:140:MET:HG2	1.91	0.69
27:D1:16:ASN:HD21	27:D1:37:ILE:HG22	1.57	0.69
32:D6:15:GLU:CD	32:D6:18:ARG:CZ	2.61	0.69
36:DA:479:A:HO2'	36:DA:481:G:H8	1.39	0.69
36:DA:2001:A:H4'	36:DA:2689:U:H2'	1.75	0.69
36:DA:2186:G:H2'	36:DA:2187:G:C8	2.28	0.69
42:DG:4:ASP:HA	42:DG:8:LYS:HG2	1.74	0.69
42:DG:67:LYS:HD3	42:DG:67:LYS:N	2.08	0.69
42:DG:138:GLN:OE1	42:DG:153:ARG:HG2	1.93	0.69
43:DH:85:LYS:HZ1	43:DH:132:ARG:HA	1.58	0.69
48:DP:97:PRO:O	48:DP:98:GLU:HB3	1.91	0.69
51:DS:37:ALA:HB2	51:DS:99:LYS:NZ	2.07	0.69
55:DW:3:ALA:O	55:DW:106:ILE:HA	1.91	0.69
1:AA:127:G:HO2'	17:AQ:2:PRO:N	1.90	0.69
1:AA:269:C:H2'	1:AA:270:A:C8	2.27	0.69
1:AA:517:G:H5'	1:AA:519:C:O2	1.93	0.69
1:AA:688:G:H2'	1:AA:689:C:C6	2.26	0.69
1:AA:932:C:H5''	7:AG:3:ARG:CD	2.23	0.69
1:AA:963:G:H21	10:AJ:55:LYS:HD3	1.57	0.69
1:AA:965:A:O2'	1:AA:966:G:H5''	1.93	0.69
1:AA:993:G:N3	1:AA:993:G:H2'	2.06	0.69
3:AC:30:ARG:CD	14:AN:38:GLY:HA3	2.22	0.69
4:AD:67:ILE:HG22	4:AD:68:TYR:CE1	2.26	0.69
6:AF:25:ILE:HA	6:AF:28:ARG:HD2	1.75	0.69
7:AG:72:ARG:HG2	7:AG:73:MET:HG3	1.73	0.69
13:AM:19:LEU:O	13:AM:22:ILE:HD13	1.92	0.69
16:AP:21:VAL:HG12	16:AP:34:GLU:O	1.92	0.69
22:AW:57:G:C2'	22:AW:58:A:H5'	2.23	0.69
31:B5:4:HIS:C	36:BA:2056:G:H1	1.95	0.69
36:BA:31:C:H2'	36:BA:32:C:O4'	1.93	0.69
36:BA:94(A):G:H2'	36:BA:95:G:C5'	2.18	0.69
36:BA:142:A:H5'	36:BA:142(A):C:OP2	1.92	0.69
36:BA:2345:G:N3	36:BA:2381:C:H2'	2.07	0.69
36:BA:2640:G:C2'	36:BA:2641:G:H5''	2.21	0.69
41:BF:46:ARG:HG3	41:BF:46:ARG:NH1	2.08	0.69
42:BG:141:PHE:HB2	42:BG:144:ILE:CG2	2.22	0.69
43:BH:41:MET:HG3	43:BH:42:ARG:N	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:83:VAL:H	48:BP:115:LEU:HD21	1.56	0.69
55:BW:52:GLU:C	55:BW:54:ALA:H	1.95	0.69
1:CA:552:U:H2'	1:CA:553:A:C8	2.26	0.69
1:CA:1003:G:N2	1:CA:1039:C:H42	1.90	0.69
1:CA:1349:A:OP1	9:CI:120:ARG:HB2	1.91	0.69
13:CM:120:LYS:O	13:CM:121:LYS:HG3	1.93	0.69
22:CV:40:C:H2'	22:CV:41:C:H6	1.58	0.69
28:D2:32:LEU:HD12	28:D2:57:ILE:HG13	1.73	0.69
36:DA:74:A:H5''	36:DA:75:G:H1'	1.75	0.69
36:DA:1514:U:H2'	36:DA:1515:G:C8	2.27	0.69
37:DB:65:C:H2'	37:DB:109:C:H41	1.58	0.69
39:DD:144:ALA:HB3	39:DD:192:THR:HG22	1.75	0.69
41:DF:20:LEU:HD12	41:DF:199:TRP:HH2	1.56	0.69
41:DF:184:TYR:HE1	48:DP:7:ARG:NH2	1.91	0.69
43:DH:76:VAL:O	43:DH:79:VAL:HG22	1.93	0.69
43:DH:130:ARG:HB3	43:DH:130:ARG:NH1	2.07	0.69
49:DQ:66:ILE:O	49:DQ:66:ILE:HG13	1.93	0.69
1:AA:22:G:H4'	1:AA:885:G:C8	2.28	0.69
1:AA:642:A:H1'	8:AH:113:SER:OG	1.92	0.69
1:AA:1359:C:P	14:AN:22:THR:HG21	2.32	0.69
2:AB:168:THR:HG23	2:AB:192:SER:CB	2.22	0.69
7:AG:139:GLU:O	7:AG:143:ARG:HG3	1.92	0.69
8:AH:10:LEU:HD22	8:AH:83:ILE:CD1	2.11	0.69
8:AH:119:LEU:N	8:AH:119:LEU:HD23	2.08	0.69
11:AK:25:TYR:HE1	11:AK:87:THR:HB	1.58	0.69
19:AS:16:LEU:HA	19:AS:19:VAL:CB	2.13	0.69
23:AX:20:U:O2'	23:AX:21:C:H5'	1.93	0.69
27:B1:73:LEU:HB3	27:B1:94:LEU:HD23	1.74	0.69
36:BA:271(H):G:O2'	36:BA:271(I):G:H8	1.73	0.69
36:BA:2161:C:H2'	36:BA:2162:G:C8	2.23	0.69
54:BV:39:LEU:HD22	54:BV:39:LEU:H	1.56	0.69
1:CA:16:A:O2'	1:CA:17:U:H5'	1.93	0.69
1:CA:157:G:H2'	1:CA:158:G:H8	1.58	0.69
1:CA:512:U:H2'	1:CA:513:C:H6	1.57	0.69
1:CA:892:A:H2'	1:CA:893:C:H6	1.57	0.69
5:CE:12:LEU:HD22	5:CE:13:ILE:N	2.08	0.69
9:CI:7:THR:HG22	9:CI:8:GLY:H	1.57	0.69
12:CL:41:ARG:HG3	12:CL:41:ARG:HH11	1.56	0.69
13:CM:13:LYS:O	13:CM:45:VAL:HG23	1.93	0.69
14:CN:22:THR:CB	14:CN:33:VAL:HG21	2.21	0.69
15:CO:25:THR:O	15:CO:29:VAL:HG23	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:5:LEU:HD12	19:CS:8:GLY:O	1.91	0.69
19:CS:31:ILE:HG23	19:CS:49:ILE:HA	1.73	0.69
20:CT:104:LEU:HD23	20:CT:105:SER:N	2.08	0.69
27:D1:58:ILE:HD11	27:D1:91:LYS:HD2	1.72	0.69
34:D8:24:ALA:O	34:D8:46:ARG:HA	1.92	0.69
35:D9:29:ASN:HD21	35:D9:32:HIS:CE1	2.11	0.69
36:DA:34:C:N4	36:DA:447:A:H61	1.90	0.69
36:DA:271(U):G:O2'	36:DA:271(V):G:H5'	1.92	0.69
36:DA:382:G:O2'	36:DA:383:U:H5'	1.92	0.69
36:DA:537:C:H42	36:DA:556:G:H22	1.40	0.69
36:DA:635:C:H2'	36:DA:636:G:O4'	1.92	0.69
36:DA:654(V):A:H8	36:DA:655:A:H2'	1.57	0.69
36:DA:1019:U:H3	36:DA:1142(A):A:H62	1.40	0.69
36:DA:2195:C:O2'	36:DA:2196:C:H5'	1.91	0.69
36:DA:2350:C:H2'	36:DA:2351:G:O4'	1.92	0.69
38:DC:103:ILE:HG23	38:DC:107:TRP:HB2	1.74	0.69
41:DF:154:VAL:HG11	41:DF:193:VAL:CG2	2.22	0.69
50:DR:32:GLY:CA	50:DR:116:LEU:HG	2.23	0.69
50:DR:73:VAL:O	50:DR:76:VAL:HG12	1.90	0.69
55:DW:37:ARG:HH11	55:DW:37:ARG:HG3	1.58	0.69
58:DZ:51:ALA:HA	58:DZ:55:HIS:HD2	1.56	0.69
1:AA:660:G:H2'	1:AA:661:G:H8	1.58	0.69
1:AA:841:U:O2'	1:AA:848:C:H5'	1.93	0.69
2:AB:134:GLU:C	2:AB:136:VAL:H	1.93	0.69
9:AI:33:PHE:CZ	9:AI:47:LEU:HD11	2.28	0.69
12:AL:92:ASP:O	12:AL:93:LEU:HD23	1.93	0.69
36:BA:525:U:O5'	36:BA:556:G:H5'	1.93	0.69
36:BA:537:C:H42	36:BA:556:G:H22	1.41	0.69
36:BA:817:C:H2'	36:BA:818:G:O4'	1.93	0.69
36:BA:832:G:OP1	48:BP:40:SER:HB2	1.93	0.69
36:BA:1242:A:C6	48:BP:8:PRO:HG3	2.28	0.69
36:BA:1297:C:H2'	36:BA:1298:C:C6	2.28	0.69
36:BA:1473:G:H2'	36:BA:1474:C:O4'	1.93	0.69
36:BA:1639:U:H2'	36:BA:1640:C:H5''	1.74	0.69
36:BA:2716:U:O2'	36:BA:2717:G:H5'	1.93	0.69
38:BC:23:ASP:CB	38:BC:27:ARG:HH12	1.98	0.69
1:CA:274:A:O2'	1:CA:275:G:O4'	2.10	0.69
1:CA:859:A:H2'	1:CA:860:A:O4'	1.93	0.69
5:CE:110:LEU:CD2	5:CE:115:VAL:HG21	2.23	0.69
22:CW:57:G:C2'	22:CW:58:A:H5'	2.22	0.69
25:CZ:356:PRO:O	25:CZ:359:VAL:CG2	2.30	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1428:C:N4	36:DA:1569:A:H3'	2.08	0.69
36:DA:1664:A:H1'	36:DA:2726:U:C5	2.28	0.69
36:DA:2262:U:H2'	36:DA:2263:C:H6	1.56	0.69
36:DA:2745:C:H1'	43:DH:143:GLN:HG2	1.74	0.69
39:DD:4:LYS:NZ	39:DD:20:ASP:HA	2.08	0.69
42:DG:125:PHE:O	42:DG:127:GLY:N	2.26	0.69
43:DH:61:HIS:C	43:DH:63:SER:H	1.94	0.69
46:DN:21:LYS:HD3	46:DN:22:THR:N	2.07	0.69
46:DN:36:GLY:H	46:DN:49:GLY:CA	2.06	0.69
52:DT:24:PRO:HD3	52:DT:52:ILE:CD1	2.20	0.69
5:AE:100:VAL:HG23	5:AE:107:ARG:NH2	2.08	0.69
9:AI:10:ARG:O	9:AI:11:LYS:HB3	1.92	0.69
10:AJ:92:THR:HG23	10:AJ:93:GLY:N	2.08	0.69
24:AY:1:G:N3	24:AY:1:G:H2'	2.08	0.69
31:B5:5:PRO:HA	36:BA:2056:G:H22	1.58	0.69
32:B6:11:LEU:HD22	32:B6:12:GLU:H	1.58	0.69
36:BA:935:C:H2'	36:BA:936:C:H6	1.58	0.69
36:BA:2186:G:H2'	36:BA:2187:G:C8	2.28	0.69
38:BC:127:LEU:HD22	38:BC:130:ILE:HD12	1.74	0.69
39:BD:76:PRO:HG2	39:BD:98:VAL:HG21	1.74	0.69
1:CA:407:G:H2'	1:CA:408:A:C8	2.28	0.69
1:CA:1189:C:H5''	3:CC:5:ILE:CG2	2.13	0.69
3:CC:15:THR:HG21	3:CC:181:ASN:HA	1.74	0.69
4:CD:85:LYS:HD3	4:CD:92:VAL:CG1	2.23	0.69
20:CT:65:LYS:HA	20:CT:68:LYS:HG3	1.74	0.69
23:CX:20:U:H2'	23:CX:21:C:C6	2.27	0.69
25:CZ:241:ARG:HA	25:CZ:285:ASN:ND2	2.07	0.69
34:D8:19:SER:HB2	36:DA:651:G:OP1	1.92	0.69
36:DA:176:G:O2'	36:DA:177:G:H5'	1.93	0.69
36:DA:601:C:O2	36:DA:605:C:H5''	1.93	0.69
36:DA:1231:G:H2'	36:DA:1232:G:H8	1.58	0.69
36:DA:1681:G:O2'	36:DA:1762:A:H2'	1.92	0.69
36:DA:1946:U:H2'	36:DA:1947:C:H6	1.58	0.69
37:DB:17:C:H2'	37:DB:18:G:C8	2.28	0.69
48:DP:105:LEU:HD12	48:DP:105:LEU:H	1.58	0.69
49:DQ:45:GLN:H	49:DQ:45:GLN:HE21	1.41	0.69
58:DZ:14:LYS:HB2	58:DZ:17:ALA:HB2	1.75	0.69
58:DZ:16:SER:O	58:DZ:20:ARG:HG2	1.93	0.69
1:AA:707:C:O2'	1:AA:708:C:H5'	1.94	0.68
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.58	0.68
1:AA:1242:C:H2'	1:AA:1243:C:C6	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:185:ILE:HG22	2:AB:199:TYR:HB2	1.73	0.68
4:AD:100:ARG:HH21	4:AD:118:ARG:NH1	1.81	0.68
13:AM:34:LEU:HD13	13:AM:41:PRO:HG3	1.76	0.68
17:AQ:56:VAL:CG2	17:AQ:81:ARG:HG3	2.23	0.68
25:AZ:241:ARG:HA	25:AZ:285:ASN:ND2	2.08	0.68
27:B1:71:TYR:HA	27:B1:74:VAL:HG23	1.74	0.68
30:B4:6:HIS:CB	42:BG:67:LYS:HE3	2.22	0.68
36:BA:92:A:H2'	36:BA:93:G:O4'	1.92	0.68
36:BA:1292:U:H2'	36:BA:1293:C:C6	2.28	0.68
36:BA:2712:U:O2'	36:BA:2712(A):A:H3'	1.93	0.68
36:BA:2825:C:H6	36:BA:2825:C:O5'	1.76	0.68
39:BD:24:ILE:HD13	39:BD:25:THR:H	1.59	0.68
39:BD:81:ALA:HA	39:BD:113:VAL:CG2	2.23	0.68
41:BF:117:ARG:HG2	41:BF:192:LEU:HD13	1.75	0.68
48:BP:10:PRO:O	48:BP:11:GLY:O	2.11	0.68
50:BR:32:GLY:CA	50:BR:116:LEU:HG	2.23	0.68
53:BU:34:LYS:HE2	53:BU:34:LYS:HA	1.75	0.68
58:BZ:133:ILE:N	58:BZ:134:PRO:HD3	2.08	0.68
1:CA:693:G:O2'	1:CA:694:A:H5'	1.93	0.68
25:CZ:104:LEU:HD11	25:CZ:116:THR:HG23	1.75	0.68
25:CZ:215:ARG:HB3	25:CZ:282:ALA:CB	2.23	0.68
27:D1:44:PRO:HG2	27:D1:46:LEU:HD22	1.73	0.68
32:D6:42:TRP:C	32:D6:44:ARG:H	1.96	0.68
33:D7:12:ARG:HG3	36:DA:686:G:O6	1.92	0.68
36:DA:2110:G:N2	36:DA:2178:C:H41	1.92	0.68
43:DH:85:LYS:HE2	43:DH:85:LYS:C	2.13	0.68
46:DN:75:TYR:CD1	46:DN:82:LEU:HB2	2.24	0.68
50:DR:61:HIS:CE1	50:DR:65:LEU:HD22	2.28	0.68
53:DU:47:TYR:HA	53:DU:50:ARG:HD2	1.74	0.68
57:DY:14:LEU:HD13	57:DY:24:VAL:HG22	1.74	0.68
1:AA:1328:C:H2'	1:AA:1329:A:H8	1.56	0.68
1:AA:1441:G:H4'	1:AA:1442:G:C4	2.28	0.68
12:AL:113:ARG:CB	12:AL:122:THR:HG21	2.23	0.68
36:BA:461:C:O2'	36:BA:462:C:H5'	1.94	0.68
36:BA:1122:G:O2'	36:BA:1123:C:H5'	1.93	0.68
36:BA:1693:U:H5'	36:BA:1693:U:C6	2.27	0.68
36:BA:2756:U:H1'	36:BA:2757:A:H5''	1.76	0.68
41:BF:136:THR:O	41:BF:140:LEU:HB2	1.92	0.68
42:BG:29:TRP:HA	42:BG:29:TRP:CE3	2.27	0.68
48:BP:86:LYS:HB3	48:BP:86:LYS:NZ	2.08	0.68
57:BY:82:PRO:O	57:BY:96:ILE:HG22	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:59:A:H1'	1:CA:354:G:N2	2.08	0.68
1:CA:1258:G:O2'	1:CA:1259:C:H5'	1.93	0.68
1:CA:1348:U:HO2'	1:CA:1349:A:H8	1.41	0.68
2:CB:170:GLU:HA	2:CB:172:ILE:CD1	2.23	0.68
2:CB:237:ALA:O	2:CB:238:LEU:HB3	1.93	0.68
6:CF:78:GLU:HA	6:CF:81:ILE:HD11	1.74	0.68
7:CG:79:ARG:NH2	22:CW:33:U:H4'	2.08	0.68
12:CL:20:LYS:HD3	12:CL:20:LYS:H	1.58	0.68
20:CT:26:ASN:HB2	20:CT:71:THR:HG23	1.76	0.68
24:CY:33:U:H2'	24:CY:34:G:H3'	1.75	0.68
25:CZ:97:ALA:N	25:CZ:126:VAL:HG11	2.08	0.68
36:DA:31:C:C2'	36:DA:32:C:H5''	2.23	0.68
36:DA:94(A):G:C2'	36:DA:95:G:H5''	2.19	0.68
36:DA:193:U:H3	36:DA:202:U:H3	1.40	0.68
36:DA:968:G:H2'	36:DA:969:U:C6	2.28	0.68
36:DA:1549:C:H2'	36:DA:1550:C:H5'	1.75	0.68
36:DA:2777:G:H5''	36:DA:2778:A:C5'	2.23	0.68
39:DD:95:LEU:HD12	39:DD:103:ARG:O	1.92	0.68
39:DD:210:GLY:O	39:DD:211:ARG:HB3	1.92	0.68
40:DE:165:VAL:HG12	40:DE:166:THR:N	2.09	0.68
41:DF:178:PRO:HB2	41:DF:201:VAL:HG11	1.75	0.68
43:DH:156:ALA:C	43:DH:158:HIS:N	2.46	0.68
46:DN:86:PRO:HG2	46:DN:89:LYS:HG2	1.74	0.68
51:DS:97:ARG:NH2	51:DS:98:VAL:HA	2.08	0.68
57:DY:96:ILE:HD11	57:DY:99:CYS:SG	2.33	0.68
1:AA:84:U:H2'	1:AA:88:A:H5'	1.73	0.68
1:AA:157:G:H2'	1:AA:158:G:H8	1.59	0.68
1:AA:568:G:O6	12:AL:5:PRO:HD3	1.93	0.68
3:AC:16:ARG:HH21	3:AC:183:ASP:HA	1.58	0.68
7:AG:31:MET:HG2	7:AG:32:ARG:N	2.08	0.68
8:AH:9:MET:HG3	8:AH:26:VAL:HG21	1.73	0.68
9:AI:104:ARG:HG2	9:AI:105:ASP:N	2.07	0.68
15:AO:25:THR:O	15:AO:29:VAL:HG23	1.93	0.68
25:AZ:176:LEU:HB2	62:AZ:501:GDP:C5	2.27	0.68
25:AZ:186:PRO:O	25:AZ:187:LYS:HG3	1.93	0.68
25:AZ:263:ARG:HH21	25:AZ:297:GLU:HB3	1.57	0.68
29:B3:10:LYS:O	29:B3:53:LEU:HD22	1.93	0.68
34:B8:24:ALA:HA	34:B8:46:ARG:NH1	2.08	0.68
36:BA:696:G:H2'	36:BA:696:G:N3	2.08	0.68
36:BA:2110:G:N2	36:BA:2178:C:H41	1.89	0.68
45:BK:31:UNK:O	45:BK:63:UNK:HA	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:19:LEU:HD13	52:BT:78:LEU:HD22	1.74	0.68
52:BT:28:VAL:CG2	52:BT:46:GLU:HA	2.23	0.68
54:BV:19:LYS:HA	54:BV:19:LYS:HE2	1.75	0.68
1:CA:1314:C:H2'	1:CA:1315:U:C6	2.28	0.68
4:CD:30:LYS:C	4:CD:32:ALA:N	2.43	0.68
7:CG:139:GLU:O	7:CG:143:ARG:HG3	1.93	0.68
9:CI:10:ARG:O	9:CI:11:LYS:HB3	1.92	0.68
27:D1:83:GLU:OE1	27:D1:83:GLU:N	2.26	0.68
34:D8:10:ALA:HA	34:D8:13:ARG:CG	2.20	0.68
35:D9:36:GLN:NE2	36:DA:1031:G:H21	1.90	0.68
36:DA:302:C:H42	36:DA:315:G:H1	1.41	0.68
36:DA:672:C:H2'	36:DA:673:C:H5''	1.76	0.68
36:DA:935:C:H2'	36:DA:936:C:H6	1.59	0.68
36:DA:1568:G:P	39:DD:63:ARG:HH22	2.16	0.68
36:DA:2574:G:H2'	36:DA:2575:C:O4'	1.93	0.68
36:DA:2673:G:H8	36:DA:2673:G:H5'	1.58	0.68
43:DH:33:LEU:CD1	43:DH:75:ALA:HA	2.23	0.68
51:DS:77:ALA:C	51:DS:79:ALA:H	1.96	0.68
52:DT:23:ARG:O	52:DT:25:GLY:N	2.26	0.68
57:DY:39:VAL:HG12	57:DY:40:GLU:N	2.08	0.68
57:DY:86:ARG:HB3	57:DY:88:LYS:HZ1	1.54	0.68
57:DY:96:ILE:CG1	57:DY:99:CYS:HB3	2.18	0.68
58:DZ:71:VAL:HG11	58:DZ:74:VAL:CG2	2.23	0.68
1:AA:957:U:H4'	19:AS:79:THR:HB	1.74	0.68
1:AA:1351:U:O2'	1:AA:1352:C:H5'	1.94	0.68
1:AA:1444:C:H2'	1:AA:1445:C:C6	2.29	0.68
1:AA:1498:U:C6	23:AX:20:U:H5'	2.29	0.68
2:AB:7:VAL:HG13	2:AB:11:LEU:HD11	1.74	0.68
3:AC:90:GLU:HA	3:AC:93:LYS:HB3	1.73	0.68
4:AD:19:LEU:O	4:AD:31:CYS:SG	2.51	0.68
13:AM:90:LEU:O	13:AM:91:ARG:HB2	1.93	0.68
13:AM:96:LEU:HB3	13:AM:97:PRO:HD2	1.74	0.68
15:AO:39:LEU:HD13	15:AO:56:LEU:HB2	1.74	0.68
19:AS:51:VAL:HG12	19:AS:52:TYR:N	2.09	0.68
23:AX:23:C:H2'	23:AX:24:C:H6	1.57	0.68
34:B8:49:VAL:CG1	34:B8:53:PRO:HD3	2.22	0.68
36:BA:650:C:C3'	36:BA:651:G:H5''	2.23	0.68
36:BA:1341:U:O2'	36:BA:1342:A:H5'	1.93	0.68
36:BA:1565:C:H2'	39:BD:21:PHE:HE1	1.58	0.68
36:BA:2001:A:H4'	36:BA:2689:U:H2'	1.75	0.68
36:BA:2123:G:H2'	36:BA:2124:G:H8	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2772:C:H2'	36:BA:2773:C:C6	2.28	0.68
38:BC:40:THR:HG23	38:BC:177:LYS:HD2	1.74	0.68
40:BE:4:ILE:CD1	40:BE:28:ALA:HB1	2.24	0.68
46:BN:58:ASP:C	46:BN:60:ILE:H	1.96	0.68
1:CA:178:C:H2'	1:CA:179:A:C8	2.28	0.68
1:CA:189(I):G:H2'	1:CA:189(J):G:H8	1.58	0.68
1:CA:256:U:H2'	1:CA:257:G:C8	2.28	0.68
1:CA:936:C:O2'	1:CA:937:A:H5'	1.93	0.68
1:CA:957:U:H4'	19:CS:79:THR:HB	1.74	0.68
1:CA:1316:G:N2	1:CA:1318:A:H3'	2.08	0.68
3:CC:30:ARG:CD	14:CN:38:GLY:HA3	2.22	0.68
7:CG:144:MET:O	7:CG:148:ASN:ND2	2.26	0.68
8:CH:29:SER:HB3	8:CH:32:LYS:HB2	1.74	0.68
16:CP:8:ARG:HH22	16:CP:15:PRO:HG3	1.55	0.68
18:CR:88:LYS:C	18:CR:88:LYS:HD3	2.13	0.68
20:CT:56:MET:HG3	20:CT:84:LEU:HG	1.75	0.68
24:CY:37:YG:H31	24:CY:37:YG:H1'	1.74	0.68
27:D1:45:ASN:HB3	27:D1:64:ALA:HB2	1.74	0.68
29:D3:1:MET:HE1	29:D3:40:THR:HA	1.75	0.68
36:DA:258:G:O2'	36:DA:259:G:H5'	1.94	0.68
36:DA:328:U:H4'	57:DY:68:HIS:NE2	2.09	0.68
36:DA:448:U:O4	36:DA:583:G:H1'	1.94	0.68
36:DA:1899:G:N2	36:DA:1902:C:N4	2.41	0.68
36:DA:2345:G:N3	36:DA:2381:C:H2'	2.08	0.68
52:DT:28:VAL:CG2	52:DT:46:GLU:HA	2.23	0.68
55:DW:65:LEU:HD23	55:DW:68:ARG:HD2	1.76	0.68
1:AA:142:G:H1	1:AA:221:C:H42	1.40	0.68
1:AA:409:G:H5'	4:AD:25:ARG:HB2	1.75	0.68
3:AC:96:GLY:O	3:AC:97:LYS:HG2	1.94	0.68
12:AL:41:ARG:HG3	12:AL:41:ARG:HH11	1.57	0.68
13:AM:66:LEU:HA	13:AM:70:LEU:CD1	2.19	0.68
26:B0:50:ASN:HD22	26:B0:63:VAL:HG21	1.58	0.68
35:B9:29:ASN:HD21	35:B9:32:HIS:CE1	2.11	0.68
36:BA:111:A:H2'	36:BA:112:U:O4'	1.93	0.68
36:BA:702:G:O2'	36:BA:703:U:H5'	1.94	0.68
36:BA:751:A:C5'	55:BW:90:ARG:HA	2.24	0.68
36:BA:2302:G:H1'	42:BG:128:ARG:HG3	1.75	0.68
37:BB:112:U:H2'	37:BB:113:G:C8	2.28	0.68
38:BC:86:ALA:HB3	38:BC:94:VAL:HG11	1.74	0.68
40:BE:167:VAL:HG11	40:BE:188:VAL:HA	1.76	0.68
46:BN:86:PRO:HG2	46:BN:89:LYS:HG2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:7:ALA:HB2	58:BZ:59:LEU:HD13	1.75	0.68
1:CA:996:A:H2'	1:CA:997:U:C6	2.28	0.68
1:CA:1352:C:H42	1:CA:1370:G:H1	1.41	0.68
3:CC:16:ARG:HH21	3:CC:183:ASP:HA	1.58	0.68
3:CC:26:LYS:HZ3	3:CC:27:LYS:HD2	1.57	0.68
3:CC:70:VAL:HG21	3:CC:76:VAL:HG11	1.75	0.68
7:CG:70:LYS:O	7:CG:138:LYS:HE3	1.93	0.68
13:CM:19:LEU:O	13:CM:22:ILE:HD13	1.93	0.68
13:CM:86:CYS:O	13:CM:89:GLY:N	2.23	0.68
20:CT:16:HIS:O	20:CT:19:SER:HB3	1.94	0.68
25:CZ:137:LYS:HA	62:CZ:501:GDP:C6	2.27	0.68
25:CZ:342:PHE:CD2	25:CZ:388:ILE:HG12	2.28	0.68
30:D4:5:ILE:O	30:D4:5:ILE:HG12	1.91	0.68
32:D6:11:LEU:HD22	32:D6:12:GLU:H	1.58	0.68
36:DA:471:A:H2'	36:DA:472:A:C5'	2.24	0.68
36:DA:716:A:H2'	36:DA:717:G:H5''	1.74	0.68
36:DA:1021:A:H8	36:DA:1022:G:H4'	1.58	0.68
36:DA:1146:C:O2'	36:DA:1147:C:H5'	1.93	0.68
36:DA:1242:A:C6	48:DP:8:PRO:HG3	2.28	0.68
36:DA:2036:C:H6	36:DA:2036:C:H5'	1.57	0.68
36:DA:2073:C:H4'	39:DD:228:PRO:HB2	1.75	0.68
37:DB:112:U:H2'	37:DB:113:G:C8	2.29	0.68
38:DC:2:LYS:HD3	38:DC:2:LYS:O	1.92	0.68
38:DC:183:GLU:H	38:DC:183:GLU:CD	1.95	0.68
39:DD:144:ALA:HB3	39:DD:192:THR:CG2	2.23	0.68
42:DG:73:ALA:HB3	42:DG:85:GLY:HA2	1.74	0.68
46:DN:111:PRO:HG3	46:DN:114:ARG:NH2	2.08	0.68
48:DP:23:PRO:HD2	48:DP:33:ARG:NH2	2.08	0.68
3:AC:142:MET:C	3:AC:144:SER:H	1.97	0.68
11:AK:111:ASP:CB	18:AR:84:LYS:HD2	2.23	0.68
16:AP:3:LYS:HG2	16:AP:65:GLN:HB2	1.74	0.68
22:AW:59:U:H2'	22:AW:60:U:H5'	1.74	0.68
25:AZ:97:ALA:N	25:AZ:126:VAL:HG11	2.09	0.68
25:AZ:234:ARG:HB3	25:AZ:289:LEU:CD1	2.23	0.68
36:BA:258:G:O2'	36:BA:259:G:H5'	1.93	0.68
36:BA:729:G:N7	39:BD:208:LYS:HB2	2.09	0.68
36:BA:1018:C:H2'	36:BA:1019:U:H6	1.58	0.68
36:BA:1132:A:H2'	36:BA:1133:U:C6	2.28	0.68
36:BA:1246:A:C2'	36:BA:1247:A:H5'	2.24	0.68
36:BA:1694:C:H1'	36:BA:1695:G:N2	2.09	0.68
36:BA:1779:U:H5	36:BA:1784:A:N7	1.90	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2352:A:H2'	36:BA:2353:G:H5'	1.75	0.68
36:BA:2777:G:H5''	36:BA:2778:A:H5'	1.75	0.68
38:BC:103:ILE:HG23	38:BC:107:TRP:HB2	1.74	0.68
39:BD:239:ARG:HH21	39:BD:239:ARG:HG2	1.58	0.68
41:BF:132:VAL:HG22	41:BF:133:ASN:N	2.06	0.68
42:BG:131:TYR:CE2	42:BG:133:LEU:HB3	2.28	0.68
43:BH:52:VAL:CB	43:BH:69:ARG:HD3	2.18	0.68
50:BR:55:ALA:HA	50:BR:80:PHE:CE1	2.28	0.68
51:BS:97:ARG:NH2	51:BS:98:VAL:HA	2.06	0.68
54:BV:49:THR:HB	54:BV:50:PRO:HD2	1.74	0.68
1:CA:20:U:H2'	1:CA:21:G:O4'	1.94	0.68
16:CP:15:PRO:HB2	16:CP:41:PRO:HG3	1.76	0.68
25:CZ:313:HIS:HB3	25:CZ:403:ILE:HG21	1.76	0.68
29:D3:1:MET:HB2	29:D3:38:GLU:HG3	1.76	0.68
36:DA:218:A:H2'	36:DA:219:G:O4'	1.94	0.68
36:DA:828:U:C5	36:DA:829:A:N6	2.61	0.68
36:DA:955:C:C2'	36:DA:956:G:H5'	2.24	0.68
36:DA:1690:A:C2'	36:DA:1691:C:H5'	2.23	0.68
38:DC:215:THR:OG1	38:DC:216:THR:N	2.26	0.68
42:DG:66:GLN:OE1	42:DG:94:LEU:HD23	1.93	0.68
42:DG:130:ASN:HB3	42:DG:160:VAL:HA	1.74	0.68
43:DH:68:THR:HA	43:DH:71:LEU:HB2	1.75	0.68
46:DN:58:ASP:O	46:DN:60:ILE:N	2.26	0.68
48:DP:100:LEU:O	48:DP:103:ALA:HB3	1.94	0.68
48:DP:135:LEU:O	48:DP:135:LEU:HD13	1.93	0.68
50:DR:42:LYS:O	50:DR:45:ARG:HG2	1.92	0.68
51:DS:101:LEU:HD12	51:DS:101:LEU:O	1.94	0.68
52:DT:48:ILE:HD12	52:DT:64:ARG:O	1.93	0.68
1:AA:831:U:H2'	1:AA:832:C:H6	1.59	0.68
1:AA:1087:G:N2	1:AA:1099:G:H1'	2.07	0.68
1:AA:1157:A:H4'	1:AA:1158:C:O5'	1.94	0.68
2:AB:48:MET:CA	2:AB:51:LEU:HD12	2.24	0.68
10:AJ:38:ILE:HD11	10:AJ:71:LEU:CD2	2.24	0.68
18:AR:53:ARG:HH21	18:AR:59:SER:HA	1.57	0.68
27:B1:66:HIS:C	27:B1:68:PRO:HD2	2.14	0.68
31:B5:4:HIS:HB2	31:B5:5:PRO:CD	2.15	0.68
34:B8:52:LYS:N	34:B8:53:PRO:HD2	2.09	0.68
36:BA:176:G:O2'	36:BA:177:G:H5'	1.93	0.68
36:BA:664:C:O2'	36:BA:665:C:H5'	1.94	0.68
36:BA:1058:G:H2'	36:BA:1059:G:C5'	2.23	0.68
36:BA:1514:U:H2'	36:BA:1515:G:C8	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1565:C:H2'	39:BD:21:PHE:CE1	2.29	0.68
36:BA:2358:G:O2'	36:BA:2359:C:H5'	1.92	0.68
1:CA:306:G:O2'	1:CA:307:C:H5'	1.93	0.68
1:CA:1317:C:H2'	1:CA:1318:A:H5'	1.76	0.68
13:CM:55:ARG:HA	13:CM:58:GLU:HG3	1.76	0.68
19:CS:16:LEU:HA	19:CS:19:VAL:CB	2.11	0.68
22:CW:10:G:O2'	22:CW:11:C:H5'	1.94	0.68
24:CY:1:G:N3	24:CY:1:G:H2'	2.09	0.68
31:D5:4:HIS:C	36:DA:2056:G:H1	1.97	0.68
31:D5:25:LEU:O	31:D5:27:PRO:HD3	1.94	0.68
36:DA:31:C:H2'	36:DA:32:C:O4'	1.93	0.68
36:DA:817:C:H2'	36:DA:818:G:O4'	1.93	0.68
36:DA:1184:G:C2'	36:DA:1185:C:H5'	2.24	0.68
36:DA:1949:G:H1	36:DA:1957:C:H42	1.38	0.68
36:DA:2181:G:H2'	36:DA:2182:G:C8	2.23	0.68
40:DE:47:VAL:HG21	40:DE:86:PRO:HD2	1.75	0.68
43:DH:23:ARG:NH1	43:DH:36:PRO:HB3	2.08	0.68
47:DO:35:VAL:HG11	47:DO:103:ALA:CB	2.23	0.68
52:DT:113:LYS:O	52:DT:114:LEU:HD23	1.93	0.68
56:DX:8:ILE:HD11	56:DX:43:VAL:HG22	1.75	0.68
1:AA:855:G:H2'	1:AA:856:C:H6	1.59	0.68
2:AB:80:ILE:H	2:AB:80:ILE:CD1	2.05	0.68
7:AG:79:ARG:HG3	7:AG:83:ALA:O	1.94	0.68
13:AM:108:ARG:HA	13:AM:108:ARG:NH1	2.09	0.68
25:AZ:223:MET:HE3	25:AZ:223:MET:O	1.93	0.68
36:BA:142:A:H1'	36:BA:1408:C:H1'	1.76	0.68
36:BA:582:G:H1	36:BA:1258:C:H42	1.42	0.68
37:BB:30:C:H1'	37:BB:57:A:H61	1.58	0.68
39:BD:131:LEU:HD13	39:BD:136:ILE:HD11	1.75	0.68
42:BG:34:LEU:O	42:BG:34:LEU:HD12	1.93	0.68
46:BN:107:LEU:HB3	46:BN:108:PRO:HD2	1.75	0.68
47:BO:35:VAL:HG11	47:BO:103:ALA:CB	2.22	0.68
47:BO:64:ARG:HH21	47:BO:100:GLY:HA3	1.58	0.68
47:BO:104:ARG:HB2	47:BO:104:ARG:NH1	2.09	0.68
48:BP:146:VAL:CG2	48:BP:147:LEU:H	1.95	0.68
55:BW:41:LYS:C	55:BW:43:GLY:H	1.96	0.68
57:BY:7:VAL:HB	57:BY:8:LYS:CD	2.23	0.68
58:BZ:5:LEU:HB2	58:BZ:59:LEU:CD2	2.24	0.68
58:BZ:165:VAL:HG12	58:BZ:166:SER:H	1.59	0.68
1:CA:817:C:H4'	1:CA:818:G:O5'	1.93	0.68
1:CA:1347:G:C8	9:CI:107:ARG:HB3	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:102:LEU:HB3	2:CB:180:LEU:CD1	2.24	0.68
6:CF:2:ARG:HD2	6:CF:69:GLU:HB3	1.76	0.68
6:CF:84:ASN:HD22	6:CF:84:ASN:H	1.41	0.68
13:CM:81:LEU:N	13:CM:81:LEU:HD23	2.08	0.68
13:CM:90:LEU:O	13:CM:91:ARG:HB2	1.94	0.68
36:DA:410:G:H1	36:DA:417:C:H42	1.41	0.68
36:DA:605:C:H1'	36:DA:657:U:O2'	1.93	0.68
36:DA:654(T):C:H2'	36:DA:654(U):A:O4'	1.94	0.68
36:DA:1419:A:O2'	36:DA:1420:U:H5''	1.94	0.68
36:DA:1988:C:H2'	36:DA:1989:G:O4'	1.92	0.68
36:DA:2715:C:H2'	36:DA:2716:U:H6	1.57	0.68
39:DD:24:ILE:HD13	39:DD:25:THR:H	1.59	0.68
40:DE:111:ARG:HA	50:DR:2:ARG:HG2	1.74	0.68
42:DG:57:ALA:O	42:DG:68:PRO:HG2	1.93	0.68
49:DQ:43:THR:OG1	49:DQ:46:GLN:HG3	1.92	0.68
52:DT:107:ASP:CG	52:DT:109:GLU:H	1.97	0.68
53:DU:14:HIS:HD2	53:DU:32:PHE:CB	2.07	0.68
58:DZ:17:ALA:O	58:DZ:20:ARG:HG2	1.94	0.68
1:AA:778:G:H1	1:AA:804:U:H3	1.42	0.68
7:AG:105:VAL:O	7:AG:106:GLN:C	2.32	0.68
14:AN:48:ALA:CB	14:AN:53:LEU:HD12	2.24	0.68
18:AR:43:PHE:C	18:AR:44:LEU:HD12	2.13	0.68
18:AR:58:LEU:CD2	18:AR:62:GLU:HB3	2.24	0.68
35:B9:13:LYS:HD2	35:B9:28:GLU:HB2	1.75	0.68
36:BA:536:A:H2	36:BA:557:U:H3	1.42	0.68
36:BA:666:G:H2'	36:BA:667:U:C6	2.28	0.68
36:BA:2037:G:H2'	36:BA:2038:G:C8	2.28	0.68
36:BA:2175:C:H5''	38:BC:220:PRO:HA	1.76	0.68
36:BA:2408:U:O5'	36:BA:2408:U:H6	1.76	0.68
37:BB:91:C:C5'	49:BQ:17:LEU:O	2.39	0.68
40:BE:199:ARG:CG	40:BE:200:GLU:H	2.04	0.68
53:BU:53:ARG:O	53:BU:56:ASP:HB2	1.94	0.68
58:BZ:61:LEU:HD11	58:BZ:67:LEU:CD1	2.23	0.68
1:CA:409:G:H5'	4:CD:25:ARG:HB2	1.76	0.68
7:CG:23:VAL:O	7:CG:27:ILE:HG13	1.93	0.68
8:CH:31:PHE:O	8:CH:34:GLU:HG2	1.93	0.68
13:CM:14:ARG:O	13:CM:17:VAL:HB	1.94	0.68
36:DA:245:G:N2	36:DA:254:G:H1'	2.08	0.68
36:DA:586:A:H5'	41:DF:89:VAL:HG21	1.76	0.68
36:DA:650:C:C3'	36:DA:651:G:H5''	2.24	0.68
36:DA:803:U:H2'	36:DA:804:A:H5'	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:819:A:C2'	36:DA:820:A:H5'	2.24	0.68
36:DA:1652:A:H2'	36:DA:1653:G:H5'	1.76	0.68
36:DA:1750:G:O2'	36:DA:1751:C:H5'	1.94	0.68
36:DA:2053:G:C2	36:DA:2054:A:H1'	2.29	0.68
38:DC:22:ILE:HD13	38:DC:190:ARG:HG2	1.75	0.68
38:DC:103:ILE:O	38:DC:103:ILE:HG22	1.93	0.68
40:DE:4:ILE:CD1	40:DE:28:ALA:HB1	2.23	0.68
40:DE:30:PRO:HD3	40:DE:180:ASN:HD21	1.57	0.68
48:DP:62:LEU:N	48:DP:62:LEU:CD2	2.49	0.68
50:DR:10:LEU:HD22	50:DR:17:ARG:NE	2.08	0.68
50:DR:18:LEU:HD13	50:DR:19:ALA:N	2.09	0.68
1:AA:1401:G:C2'	1:AA:1402:C:H5'	2.24	0.68
2:AB:84:GLU:HB3	2:AB:219:VAL:CG2	2.18	0.68
13:AM:34:LEU:CD1	13:AM:41:PRO:HG3	2.24	0.68
31:B5:55:ARG:HD3	31:B5:56:LYS:N	2.09	0.68
31:B5:56:LYS:HE2	31:B5:59:GLU:OE2	1.94	0.68
36:BA:1021:A:H8	36:BA:1022:G:H4'	1.59	0.68
36:BA:1146:C:O2'	36:BA:1147:C:H5'	1.94	0.68
36:BA:1889:A:O2'	36:BA:2087:G:H5'	1.94	0.68
36:BA:2028:U:H2'	36:BA:2029:G:O4'	1.93	0.68
36:BA:2580:U:H3'	36:BA:2581:G:C2	2.29	0.68
42:BG:60:LEU:HA	42:BG:63:ILE:CD1	2.24	0.68
46:BN:45:ASN:N	46:BN:45:ASN:ND2	2.40	0.68
49:BQ:134:ARG:CD	58:BZ:122:ARG:NH2	2.53	0.68
50:BR:24:GLN:HE22	50:BR:40:LYS:HD2	1.59	0.68
51:BS:51:ALA:HB2	51:BS:73:LEU:HG	1.76	0.68
51:BS:72:ALA:O	51:BS:75:GLU:HB3	1.94	0.68
52:BT:106:SER:O	52:BT:107:ASP:HB3	1.93	0.68
52:BT:111:ARG:HH11	52:BT:111:ARG:HG2	1.59	0.68
58:BZ:53:ILE:CG2	58:BZ:71:VAL:HB	2.23	0.68
58:BZ:76:LEU:HD21	58:BZ:82:ARG:H	1.59	0.68
1:CA:1060:C:O2'	1:CA:1061:G:H5'	1.94	0.68
2:CB:170:GLU:HA	2:CB:172:ILE:HD12	1.76	0.68
3:CC:95:THR:CG2	3:CC:97:LYS:HG3	2.24	0.68
5:CE:53:LEU:O	5:CE:56:GLN:N	2.27	0.68
7:CG:31:MET:O	7:CG:32:ARG:HG3	1.93	0.68
21:CU:6:ARG:HD3	21:CU:15:ARG:NH1	2.08	0.68
25:CZ:143:ASP:O	25:CZ:147:LEU:HD23	1.94	0.68
25:CZ:356:PRO:CD	25:CZ:359:VAL:HG21	2.23	0.68
25:CZ:376:LYS:O	25:CZ:378:VAL:HG13	1.94	0.68
33:D7:30:VAL:HG11	36:DA:466:A:H4'	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:D9:7:VAL:HG13	35:D9:34:GLN:CG	2.23	0.68
36:DA:337:C:H3'	36:DA:338:G:H5''	1.76	0.68
36:DA:1242:A:N1	48:DP:8:PRO:HG3	2.09	0.68
36:DA:1789:A:OP1	39:DD:222:ARG:HG3	1.94	0.68
36:DA:2306:C:H5'	36:DA:2307:G:O5'	1.94	0.68
36:DA:2580:U:H5'	40:DE:131:ALA:HB2	1.76	0.68
38:DC:127:LEU:HD22	38:DC:130:ILE:HD12	1.76	0.68
39:DD:30:GLU:HB2	39:DD:35:LYS:HE3	1.74	0.68
40:DE:83:ASP:O	40:DE:84:PHE:HB2	1.94	0.68
42:DG:92:VAL:O	42:DG:92:VAL:HG13	1.92	0.68
42:DG:130:ASN:OD1	42:DG:163:ALA:HB3	1.94	0.68
47:DO:96:THR:O	47:DO:97:ARG:HG2	1.94	0.68
48:DP:59:LEU:HA	48:DP:61:ARG:CD	2.23	0.68
48:DP:83:VAL:H	48:DP:115:LEU:HD21	1.58	0.68
48:DP:102:ARG:HB2	48:DP:102:ARG:NH2	2.08	0.68
52:DT:38:ASN:C	52:DT:38:ASN:ND2	2.47	0.68
52:DT:106:SER:O	52:DT:107:ASP:HB3	1.94	0.68
54:DV:19:LYS:HA	54:DV:19:LYS:HE2	1.75	0.68
55:DW:40:ASN:O	55:DW:41:LYS:HG2	1.94	0.68
1:AA:189:G:H2'	1:AA:189(A):C:C6	2.29	0.67
1:AA:817:C:H4'	1:AA:818:G:O5'	1.94	0.67
1:AA:1496:C:H4'	36:BA:1920:C:O2'	1.94	0.67
9:AI:17:VAL:HG11	9:AI:81:ILE:HD13	1.76	0.67
9:AI:126:SER:O	9:AI:127:LYS:HB3	1.93	0.67
13:AM:4:ILE:HD11	13:AM:10:PRO:HD3	1.76	0.67
13:AM:91:ARG:HH12	13:AM:103:THR:HG21	1.59	0.67
20:AT:16:HIS:O	20:AT:19:SER:HB3	1.94	0.67
25:AZ:226:GLU:HG3	25:AZ:240:GLY:HA2	1.77	0.67
32:B6:18:ARG:HG2	32:B6:18:ARG:HH11	1.59	0.67
36:BA:605:C:H1'	36:BA:657:U:O2'	1.95	0.67
36:BA:914:C:H2'	36:BA:915:C:H5'	1.75	0.67
36:BA:1038:C:C3'	36:BA:1039:G:H5''	2.23	0.67
36:BA:2011:U:H2'	36:BA:2012:G:O4'	1.93	0.67
36:BA:2101:G:H2'	36:BA:2102:U:O4'	1.93	0.67
36:BA:2136:C:N4	36:BA:2155:G:H1	1.92	0.67
36:BA:2580:U:H5'	40:BE:131:ALA:HB2	1.76	0.67
39:BD:223:GLY:HA2	39:BD:226:MET:SD	2.34	0.67
40:BE:165:VAL:HG12	40:BE:166:THR:N	2.10	0.67
42:BG:162:THR:O	42:BG:164:GLU:N	2.27	0.67
43:BH:76:VAL:O	43:BH:79:VAL:HG22	1.93	0.67
43:BH:85:LYS:NZ	43:BH:132:ARG:HA	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:5:VAL:HG12	46:BN:7:LYS:HG3	1.77	0.67
56:BX:76:ARG:HD3	56:BX:76:ARG:N	2.09	0.67
58:BZ:153:SER:HB3	58:BZ:167:PRO:HB3	1.74	0.67
1:CA:775:G:O2'	1:CA:776:G:H5'	1.94	0.67
1:CA:927:G:H8	1:CA:927:G:H5'	1.59	0.67
2:CB:80:ILE:H	2:CB:80:ILE:CD1	2.07	0.67
8:CH:89:PRO:HA	8:CH:92:ARG:HH11	1.59	0.67
22:CV:6:G:H1	22:CV:67:C:N4	1.92	0.67
36:DA:212:G:O2'	36:DA:213:A:H5'	1.94	0.67
36:DA:821:A:H5''	36:DA:822:U:H6	1.59	0.67
36:DA:1292:U:H2'	36:DA:1293:C:C6	2.28	0.67
36:DA:1466:G:H3'	36:DA:1547:C:H41	1.60	0.67
36:DA:2249:U:H4'	36:DA:2275:C:C5	2.29	0.67
36:DA:2291:U:H3	36:DA:2341:G:H1	1.41	0.67
36:DA:2491:U:H4'	36:DA:2570:G:OP1	1.94	0.67
38:DC:151:GLU:CA	38:DC:154:ARG:HH11	2.05	0.67
49:DQ:141:GLN:HE22	58:DZ:72:ARG:HD3	1.59	0.67
53:DU:21:ALA:HB1	53:DU:24:TYR:CD1	2.29	0.67
56:DX:65:ARG:CG	56:DX:66:LEU:H	2.03	0.67
1:AA:407:G:H2'	1:AA:408:A:C8	2.29	0.67
1:AA:1478:C:H2'	1:AA:1479:C:C6	2.29	0.67
1:AA:1508:G:H1	1:AA:1527:C:H42	1.42	0.67
6:AF:87:ARG:HH11	6:AF:87:ARG:HG2	1.58	0.67
7:AG:144:MET:O	7:AG:148:ASN:ND2	2.27	0.67
15:AO:12:ILE:HG22	15:AO:13:GLN:N	2.09	0.67
26:B0:30:VAL:HA	26:B0:66:VAL:HA	1.76	0.67
27:B1:4:VAL:HG22	27:B1:5:CYS:N	2.09	0.67
32:B6:8:LYS:HE3	32:B6:25:LYS:HD3	1.75	0.67
35:B9:24:TYR:O	35:B9:25:VAL:HG23	1.94	0.67
36:BA:38:A:H5'	41:BF:50:SER:OG	1.94	0.67
36:BA:594:U:H2'	36:BA:595:C:H6	1.59	0.67
36:BA:2472:G:H2'	36:BA:2475:C:N4	2.09	0.67
36:BA:2707:G:O2'	36:BA:2708:G:H5'	1.95	0.67
37:BB:7:G:C3'	37:BB:8:U:H5''	2.21	0.67
41:BF:139:PHE:HB3	41:BF:166:ALA:HB1	1.75	0.67
52:BT:85:LYS:HB3	52:BT:85:LYS:NZ	2.07	0.67
53:BU:88:ILE:HG13	53:BU:88:ILE:O	1.93	0.67
53:BU:110:VAL:O	53:BU:113:ALA:HB3	1.94	0.67
57:BY:19:LYS:HB2	57:BY:20:TYR:CE1	2.29	0.67
58:BZ:60:GLU:HA	58:BZ:66:SER:HA	1.75	0.67
1:CA:189:G:H2'	1:CA:189(A):C:C6	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:225:C:H2'	1:CA:226:G:H8	1.59	0.67
1:CA:571:U:H2'	1:CA:572:A:H5''	1.74	0.67
1:CA:751:U:H4'	15:CO:24:SER:CB	2.24	0.67
1:CA:1104:G:H4'	2:CB:111:ARG:NH1	2.10	0.67
1:CA:1497:G:H2'	1:CA:1498:U:H5'	1.76	0.67
3:CC:187:ALA:O	3:CC:188:LEU:HD22	1.93	0.67
10:CJ:63:PHE:HA	14:CN:59:ALA:H	1.59	0.67
14:CN:12:ARG:HB3	14:CN:14:PRO:HG2	1.76	0.67
25:CZ:79:HIS:HD2	25:CZ:80:VAL:N	1.92	0.67
26:D0:50:ASN:HD22	26:D0:63:VAL:HG21	1.59	0.67
32:D6:15:GLU:HB2	32:D6:20:ASN:HB3	1.76	0.67
36:DA:1824:G:H5''	39:DD:52:ARG:NH1	2.09	0.67
36:DA:1858:G:H1'	36:DA:1884:A:N6	2.09	0.67
36:DA:2866:U:C6	36:DA:2868:A:H1'	2.29	0.67
38:DC:124:GLY:HA2	38:DC:128:GLY:HA3	1.75	0.67
45:DK:7:UNK:HA	45:DK:58:UNK:HA	1.76	0.67
45:DK:80:UNK:C	45:DK:82:UNK:H	2.07	0.67
45:DK:90:UNK:HA	58:DZ:112:ARG:NH2	2.10	0.67
46:DN:38:HIS:C	53:DU:67:ALA:HB1	2.15	0.67
1:AA:337:C:H2'	1:AA:338:A:C8	2.28	0.67
1:AA:520:A:N1	1:AA:536:C:H1'	2.09	0.67
1:AA:684:A:N3	11:AK:39:PRO:HG2	2.09	0.67
1:AA:1308:U:O2'	1:AA:1309:G:H5'	1.93	0.67
7:AG:20:ASP:HB3	7:AG:23:VAL:HG23	1.76	0.67
18:AR:88:LYS:HD3	18:AR:88:LYS:C	2.14	0.67
25:AZ:356:PRO:CD	25:AZ:359:VAL:HG21	2.24	0.67
27:B1:88:LYS:C	27:B1:88:LYS:HD3	2.14	0.67
29:B3:6:VAL:HB	29:B3:54:VAL:CG1	2.22	0.67
34:B8:24:ALA:O	34:B8:46:ARG:HA	1.93	0.67
34:B8:43:GLN:O	34:B8:44:LYS:HD2	1.94	0.67
36:BA:139:G:C6	36:BA:140:G:H2'	2.29	0.67
36:BA:142(A):C:O2'	36:BA:143:G:H5'	1.94	0.67
36:BA:819:A:C2'	36:BA:820:A:H5'	2.25	0.67
36:BA:1419:A:O2'	36:BA:1420:U:H5''	1.94	0.67
36:BA:1652:A:H2'	36:BA:1653:G:H5'	1.76	0.67
36:BA:1747(A):G:H2'	36:BA:1748:G:O4'	1.95	0.67
36:BA:2833:G:C3'	36:BA:2834:G:H5''	2.24	0.67
39:BD:131:LEU:HD12	39:BD:131:LEU:N	2.09	0.67
45:BK:80:UNK:C	45:BK:82:UNK:H	2.07	0.67
48:BP:40:SER:O	48:BP:41:ARG:HD2	1.94	0.67
51:BS:106:ARG:NH1	51:BS:106:ARG:HB3	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:10:ARG:HA	53:BU:13:LYS:HG2	1.76	0.67
1:CA:8:A:OP2	1:CA:8:A:H2'	1.93	0.67
1:CA:473:G:H2'	1:CA:474:G:H8	1.59	0.67
1:CA:1106:G:O2'	1:CA:1107:C:H5'	1.95	0.67
1:CA:1471:G:O2'	1:CA:1472:U:H5'	1.94	0.67
16:CP:15:PRO:O	16:CP:16:HIS:ND1	2.27	0.67
36:DA:2282:G:H21	36:DA:2390:U:H3	1.41	0.67
36:DA:2286:A:H4'	36:DA:2287:A:O4'	1.94	0.67
36:DA:2352:A:H2'	36:DA:2353:G:H5'	1.76	0.67
36:DA:2716:U:O2'	36:DA:2717:G:H5'	1.93	0.67
39:DD:35:LYS:HZ2	39:DD:35:LYS:HB3	1.58	0.67
41:DF:29:ASN:HD22	41:DF:32:LEU:CB	1.99	0.67
41:DF:155:LEU:HD11	41:DF:176:LEU:HD22	1.75	0.67
46:DN:21:LYS:HE3	46:DN:25:ARG:CB	2.23	0.67
46:DN:133:GLN:HG2	46:DN:134:ARG:N	2.09	0.67
1:AA:996:A:H2'	1:AA:997:U:C6	2.29	0.67
2:AB:170:GLU:HA	2:AB:172:ILE:CD1	2.25	0.67
4:AD:30:LYS:O	4:AD:32:ALA:N	2.26	0.67
5:AE:87:SER:OG	5:AE:125:SER:HB3	1.94	0.67
9:AI:4:TYR:CE2	9:AI:88:TYR:HB2	2.29	0.67
11:AK:125:PHE:HD1	11:AK:125:PHE:N	1.91	0.67
12:AL:89:ARG:HD2	12:AL:91:LYS:HE2	1.75	0.67
13:AM:2:ALA:O	13:AM:9:ILE:HG23	1.93	0.67
13:AM:40:ASN:OD1	13:AM:41:PRO:HD2	1.93	0.67
19:AS:31:ILE:HG23	19:AS:49:ILE:HA	1.76	0.67
19:AS:40:ILE:HB	19:AS:67:VAL:O	1.93	0.67
34:B8:10:ALA:O	34:B8:14:VAL:HG12	1.94	0.67
36:BA:31:C:C2'	36:BA:32:C:H5''	2.24	0.67
36:BA:392:C:C2'	36:BA:393:C:H5'	2.25	0.67
36:BA:675:A:OP1	41:BF:63:LYS:HE2	1.95	0.67
36:BA:1579:A:H2'	36:BA:1580:A:C1'	2.24	0.67
36:BA:2092:U:H4'	36:BA:2093:G:H5''	1.75	0.67
36:BA:2233:U:H2'	36:BA:2234:G:C8	2.28	0.67
39:BD:144:ALA:HB3	39:BD:192:THR:CG2	2.24	0.67
41:BF:24:LEU:O	41:BF:115:ALA:HB1	1.93	0.67
52:BT:23:ARG:O	52:BT:25:GLY:N	2.27	0.67
1:CA:127:G:HO2'	17:CQ:2:PRO:N	1.93	0.67
1:CA:663:A:O2'	1:CA:664:G:H5'	1.93	0.67
2:CB:213:LEU:O	2:CB:216:SER:HB3	1.93	0.67
6:CF:98:LEU:HD12	6:CF:98:LEU:H	1.57	0.67
10:CJ:51:ARG:HE	10:CJ:61:GLU:HB2	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:48:ALA:HA	14:CN:53:LEU:HB2	1.76	0.67
17:CQ:56:VAL:CG2	17:CQ:81:ARG:HG3	2.25	0.67
20:CT:10:LEU:HD12	20:CT:11:SER:N	2.09	0.67
22:CW:34:G:H22	23:CX:18:G:H22	1.41	0.67
25:CZ:234:ARG:HD2	25:CZ:289:LEU:CD2	2.23	0.67
35:D9:27:CYS:SG	35:D9:28:GLU:N	2.67	0.67
36:DA:1030:G:OP2	49:DQ:128:LYS:HE2	1.94	0.67
36:DA:2472:G:H2'	36:DA:2475:C:H42	1.59	0.67
38:DC:28:LEU:O	38:DC:28:LEU:HD23	1.93	0.67
40:DE:9:VAL:CG1	40:DE:25:VAL:HB	2.23	0.67
48:DP:7:ARG:HB3	48:DP:8:PRO:HD3	1.76	0.67
48:DP:126:VAL:HG13	48:DP:145:PRO:HB2	1.74	0.67
52:DT:82:LEU:H	52:DT:82:LEU:CD1	2.04	0.67
53:DU:34:LYS:HE2	53:DU:34:LYS:HA	1.77	0.67
1:AA:1179:A:H4'	9:AI:103:THR:HA	1.77	0.67
3:AC:35:GLU:OE2	3:AC:59:ARG:NH1	2.26	0.67
6:AF:98:LEU:HD12	6:AF:98:LEU:H	1.59	0.67
10:AJ:92:THR:HG23	10:AJ:93:GLY:H	1.59	0.67
18:AR:59:SER:H	18:AR:62:GLU:HB2	1.60	0.67
25:AZ:277:LEU:HD12	25:AZ:280:GLY:N	2.05	0.67
30:B4:42:PHE:O	30:B4:42:PHE:CG	2.47	0.67
31:B5:25:LEU:O	31:B5:27:PRO:HD3	1.94	0.67
36:BA:2126:A:H4'	36:BA:2127:G:O5'	1.94	0.67
36:BA:2201:C:H2'	36:BA:2202:C:C6	2.29	0.67
36:BA:2652:C:H2'	36:BA:2653:U:C6	2.30	0.67
39:BD:145:VAL:HB	39:BD:155:LEU:HB2	1.77	0.67
58:BZ:12:GLY:HA3	58:BZ:36:LYS:HZ2	1.59	0.67
58:BZ:70:LEU:CD2	58:BZ:91:LEU:HD21	2.23	0.67
1:CA:1226:C:C4	13:CM:104:ARG:HB2	2.29	0.67
1:CA:1442(B):A:H5''	52:DT:122:ASP:OD1	1.94	0.67
1:CA:1499:A:O2'	1:CA:1500:A:H5'	1.95	0.67
2:CB:72:GLY:HA2	2:CB:165:VAL:HG22	1.77	0.67
3:CC:56:ASP:OD2	3:CC:69:HIS:NE2	2.28	0.67
5:CE:33:VAL:HG21	5:CE:109:ILE:CG1	2.19	0.67
8:CH:119:LEU:N	8:CH:119:LEU:HD23	2.10	0.67
13:CM:34:LEU:HD13	13:CM:41:PRO:HG3	1.76	0.67
22:CW:39:U:H4'	22:CW:39:U:OP1	1.94	0.67
25:CZ:194:GLU:HB3	25:CZ:198:LYS:NZ	2.10	0.67
27:D1:69:LYS:O	27:D1:73:LEU:HD12	1.95	0.67
36:DA:21:A:H2'	36:DA:22:C:C6	2.30	0.67
36:DA:371:A:H61	36:DA:401:A:H3'	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1018:C:H2'	36:DA:1019:U:H6	1.57	0.67
36:DA:2688:U:H3'	36:DA:2688:U:O2	1.94	0.67
36:DA:2690:C:H4'	36:DA:2872:G:N2	2.10	0.67
36:DA:2760:C:C2'	36:DA:2761:G:H5''	2.25	0.67
41:DF:178:PRO:HG2	41:DF:179:GLU:OE1	1.93	0.67
58:DZ:153:SER:H	58:DZ:167:PRO:CB	2.07	0.67
1:AA:321:A:O2'	1:AA:322:C:H5'	1.95	0.67
3:AC:181:ASN:ND2	3:AC:204:LEU:HB2	2.10	0.67
5:AE:12:LEU:CD1	5:AE:31:LEU:HB3	2.24	0.67
7:AG:133:GLY:O	7:AG:136:LYS:HB2	1.93	0.67
11:AK:124:LYS:O	11:AK:127:LYS:HG2	1.94	0.67
32:B6:42:TRP:C	32:B6:44:ARG:H	1.97	0.67
36:BA:139(A):G:N2	56:BX:44:GLU:OE1	2.27	0.67
36:BA:471:A:H2'	36:BA:472:A:C5'	2.24	0.67
36:BA:729:G:O2'	36:BA:763:G:H4'	1.95	0.67
36:BA:782:A:C2	39:BD:226:MET:HG2	2.30	0.67
36:BA:1038:C:H2'	36:BA:1039:G:H5''	1.77	0.67
36:BA:1058:G:H8	36:BA:1058:G:O5'	1.77	0.67
37:BB:110:G:O2'	37:BB:111:G:H5'	1.94	0.67
41:BF:184:TYR:HE1	48:BP:7:ARG:NH2	1.92	0.67
43:BH:85:LYS:HE2	43:BH:85:LYS:C	2.14	0.67
47:BO:86:ILE:HG22	47:BO:94:ARG:HB2	1.77	0.67
47:BO:107:ARG:HH11	52:BT:36:GLU:HG3	1.58	0.67
48:BP:75:ILE:HD12	48:BP:75:ILE:H	1.60	0.67
51:BS:12:PHE:O	51:BS:14:VAL:HG23	1.95	0.67
52:BT:4:GLY:O	52:BT:7:ILE:HB	1.94	0.67
1:CA:624:C:H2'	1:CA:625:G:H8	1.58	0.67
1:CA:778:G:H1	1:CA:804:U:H3	1.43	0.67
1:CA:841:U:O2'	1:CA:848:C:H5'	1.95	0.67
1:CA:863:U:C2'	1:CA:864:A:H5''	2.23	0.67
20:CT:44:ALA:HB1	20:CT:88:VAL:HG13	1.76	0.67
25:CZ:138:VAL:CG2	25:CZ:173:GLY:H	1.87	0.67
25:CZ:186:PRO:O	25:CZ:187:LYS:HG3	1.95	0.67
32:D6:22:ALA:HB2	32:D6:39:TYR:CE2	2.30	0.67
34:D8:8:LYS:HG2	34:D8:11:LYS:CD	2.25	0.67
36:DA:1902:C:O2'	39:DD:244:ARG:HB2	1.93	0.67
36:DA:2101:G:H2'	36:DA:2102:U:O4'	1.94	0.67
36:DA:2136:C:N4	36:DA:2155:G:H1	1.92	0.67
36:DA:2712:U:O2'	36:DA:2713:A:H5'	1.93	0.67
36:DA:2875:C:H4'	52:DT:5:ALA:HB3	1.75	0.67
37:DB:68:C:H2'	37:DB:69:G:C8	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:24:LEU:O	41:DF:115:ALA:HB1	1.95	0.67
41:DF:117:ARG:HG2	41:DF:192:LEU:HD13	1.77	0.67
53:DU:107:ALA:O	53:DU:110:VAL:HB	1.94	0.67
57:DY:97:ARG:O	57:DY:97:ARG:HG3	1.94	0.67
1:AA:178:C:H2'	1:AA:179:A:C8	2.29	0.67
2:AB:170:GLU:HA	2:AB:172:ILE:HD12	1.77	0.67
4:AD:188:LEU:HD23	4:AD:189:PRO:O	1.95	0.67
5:AE:150:ARG:HH11	5:AE:150:ARG:HB2	1.59	0.67
6:AF:15:ASP:OD2	6:AF:17:SER:HB2	1.95	0.67
7:AG:80:VAL:HG12	7:AG:81:GLY:N	2.10	0.67
8:AH:20:TYR:HE2	8:AH:75:ARG:HD2	1.59	0.67
9:AI:6:GLY:HA3	9:AI:84:ALA:HB2	1.77	0.67
22:AW:39:U:H4'	22:AW:39:U:OP1	1.94	0.67
25:AZ:25:THR:CB	62:AZ:501:GDP:O2B	2.42	0.67
25:AZ:193:ASN:HB3	25:AZ:196:VAL:CG2	2.25	0.67
25:AZ:215:ARG:HB3	25:AZ:282:ALA:CB	2.25	0.67
36:BA:68:G:H2'	36:BA:69:C:C6	2.29	0.67
36:BA:329:G:H1	57:BY:19:LYS:HE3	1.59	0.67
36:BA:654(T):C:H2'	36:BA:654(U):A:O4'	1.95	0.67
36:BA:672:C:H2'	36:BA:673:C:H5''	1.75	0.67
36:BA:1988:C:H2'	36:BA:1989:G:O4'	1.94	0.67
36:BA:2689:U:H4'	36:BA:2690:C:H6	1.60	0.67
36:BA:2760:C:C2'	36:BA:2761:G:H5''	2.23	0.67
38:BC:22:ILE:HD13	38:BC:190:ARG:HG2	1.75	0.67
38:BC:151:GLU:CA	38:BC:154:ARG:HH11	2.08	0.67
42:BG:146:TYR:O	42:BG:148:MET:N	2.26	0.67
1:CA:652:U:O2'	1:CA:653:A:H5''	1.95	0.67
1:CA:831:U:H2'	1:CA:832:C:H6	1.58	0.67
1:CA:932:C:H5''	7:CG:3:ARG:CD	2.24	0.67
1:CA:1101:A:H4'	1:CA:1102:A:O5'	1.95	0.67
2:CB:16:HIS:HB3	2:CB:210:SER:CB	2.25	0.67
2:CB:82:ARG:O	2:CB:86:GLU:HG3	1.95	0.67
5:CE:26:PHE:O	5:CE:27:ARG:HB2	1.94	0.67
5:CE:71:LEU:O	5:CE:72:GLN:HG3	1.95	0.67
9:CI:22:GLY:O	9:CI:59:PHE:N	2.27	0.67
19:CS:44:MET:HA	19:CS:47:HIS:CD2	2.19	0.67
33:D7:18:PHE:CZ	36:DA:117:G:H4'	2.27	0.67
36:DA:266:G:C2'	36:DA:267:C:H5''	2.22	0.67
36:DA:612:C:C2'	36:DA:613:G:H5''	2.24	0.67
36:DA:1038:C:C3'	36:DA:1039:G:H5''	2.23	0.67
40:DE:165:VAL:HG12	40:DE:166:THR:H	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:139:PHE:HB3	41:DF:166:ALA:HB1	1.75	0.67
56:DX:26:TYR:CE2	56:DX:89:ILE:HB	2.30	0.67
1:AA:530:G:O2'	24:AY:35:G:H4'	1.94	0.67
1:AA:1368:G:O2'	1:AA:1369:C:H5'	1.94	0.67
3:AC:94:LEU:HD12	3:AC:94:LEU:O	1.95	0.67
4:AD:133:VAL:HG13	4:AD:135:LEU:HD22	1.75	0.67
12:AL:6:THR:OG1	12:AL:9:GLN:HG3	1.95	0.67
12:AL:41:ARG:HG3	12:AL:41:ARG:NH1	2.10	0.67
14:AN:22:THR:CB	14:AN:33:VAL:HG21	2.23	0.67
16:AP:15:PRO:HB2	16:AP:41:PRO:HG3	1.75	0.67
17:AQ:8:GLY:HA3	17:AQ:22:LEU:O	1.93	0.67
18:AR:53:ARG:C	18:AR:55:ARG:H	1.97	0.67
26:B0:55:ARG:O	26:B0:57:PHE:N	2.27	0.67
36:BA:1285:G:H4'	50:BR:105:ARG:NH1	2.10	0.67
36:BA:1536:C:H2'	36:BA:1537:G:H4'	1.77	0.67
36:BA:1690:A:C2'	36:BA:1691:C:H5'	2.25	0.67
37:BB:91:C:OP1	49:BQ:17:LEU:N	2.27	0.67
38:BC:183:GLU:H	38:BC:183:GLU:CD	1.96	0.67
40:BE:23:VAL:HG12	40:BE:173:VAL:HG21	1.76	0.67
46:BN:54:VAL:HB	46:BN:122:VAL:HG13	1.77	0.67
48:BP:36:LYS:CB	48:BP:41:ARG:HB3	2.25	0.67
51:BS:65:VAL:O	51:BS:69:VAL:HG12	1.95	0.67
53:BU:6:THR:O	53:BU:9:VAL:HG22	1.95	0.67
53:BU:42:ALA:HA	53:BU:45:TYR:HB2	1.74	0.67
57:BY:13:VAL:HG22	57:BY:14:LEU:N	2.09	0.67
58:BZ:27:VAL:O	58:BZ:27:VAL:HG13	1.94	0.67
58:BZ:69:THR:HG23	58:BZ:90:VAL:HA	1.77	0.67
1:CA:269:C:H2'	1:CA:270:A:C8	2.29	0.67
1:CA:1368:G:O2'	1:CA:1369:C:H5'	1.94	0.67
8:CH:36:LEU:HD12	8:CH:59:LEU:HD13	1.77	0.67
25:CZ:248:LYS:HD3	25:CZ:279:GLU:HG3	1.77	0.67
25:CZ:355:LEU:C	25:CZ:359:VAL:CG2	2.63	0.67
31:D5:4:HIS:HB2	31:D5:5:PRO:CD	2.18	0.67
34:D8:22:VAL:HG21	34:D8:53:PRO:HB2	1.77	0.67
36:DA:329:G:H1	57:DY:19:LYS:HE3	1.60	0.67
36:DA:795:C:H2'	36:DA:796:C:H6	1.60	0.67
36:DA:864:G:H1'	36:DA:914:C:N4	2.09	0.67
36:DA:914:C:H2'	36:DA:915:C:H5'	1.76	0.67
36:DA:1390:U:H3	36:DA:1395:A:H62	1.43	0.67
36:DA:1564:C:O2'	36:DA:1565:C:H5'	1.95	0.67
36:DA:2304:G:N2	36:DA:2312:U:H3	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DB:98:G:H2'	37:DB:99:G:H8	1.60	0.67
38:DC:43:VAL:HG21	38:DC:175:VAL:HG21	1.77	0.67
40:DE:167:VAL:HB	40:DE:189:PRO:HD3	1.77	0.67
54:DV:19:LYS:HG2	54:DV:94:LEU:CB	2.25	0.67
1:AA:346:G:H2'	1:AA:346:G:N3	2.09	0.67
4:AD:79:PHE:HA	4:AD:93:PHE:CE2	2.30	0.67
8:AH:9:MET:SD	8:AH:32:LYS:HG2	2.35	0.67
13:AM:10:PRO:HG3	13:AM:18:ALA:HB1	1.77	0.67
25:AZ:9:LYS:HD2	25:AZ:74:LYS:O	1.95	0.67
36:BA:193:U:H3	36:BA:202:U:H3	1.43	0.67
36:BA:218:A:H2'	36:BA:219:G:O4'	1.95	0.67
36:BA:944:G:H5'	36:BA:945:A:O5'	1.95	0.67
36:BA:996:A:H4'	53:BU:92:ARG:HG2	1.75	0.67
36:BA:1605:C:H2'	36:BA:1606:G:H5'	1.75	0.67
36:BA:2688:U:H3'	36:BA:2688:U:O2	1.95	0.67
37:BB:42:C:HO2'	37:BB:43:C:H6	1.43	0.67
39:BD:148:GLU:CB	39:BD:151:LYS:HD2	2.25	0.67
42:BG:9:ARG:NH1	42:BG:9:ARG:HB3	2.10	0.67
48:BP:23:PRO:HD2	48:BP:33:ARG:NH2	2.09	0.67
50:BR:62:ALA:O	50:BR:66:VAL:HG23	1.94	0.67
56:BX:14:SER:OG	56:BX:17:ALA:HB2	1.95	0.67
58:BZ:102:LEU:HD21	58:BZ:124:ILE:CD1	2.25	0.67
1:CA:530:G:O2'	24:CY:35:G:H4'	1.95	0.67
1:CA:855:G:H2'	1:CA:856:C:H6	1.59	0.67
3:CC:96:GLY:O	3:CC:97:LYS:HG2	1.94	0.67
17:CQ:29:HIS:CE1	17:CQ:31:LEU:H	2.12	0.67
35:D9:13:LYS:HD2	35:D9:28:GLU:HB2	1.77	0.67
36:DA:696:G:H2'	36:DA:696:G:N3	2.10	0.67
36:DA:836:G:H2'	36:DA:837:C:C6	2.30	0.67
36:DA:1512:U:H2'	36:DA:1512:U:O2	1.92	0.67
36:DA:2111:C:H42	36:DA:2145:C:H2'	1.58	0.67
37:DB:30:C:H1'	37:DB:57:A:H61	1.58	0.67
38:DC:151:GLU:HA	38:DC:154:ARG:HD2	1.77	0.67
42:DG:96:ARG:O	42:DG:98:ARG:N	2.28	0.67
43:DH:65:HIS:C	43:DH:67:LEU:H	1.99	0.67
46:DN:48:MET:HE3	46:DN:48:MET:N	2.10	0.67
50:DR:24:GLN:HE22	50:DR:40:LYS:HD2	1.60	0.67
53:DU:10:ARG:HA	53:DU:13:LYS:HG2	1.75	0.67
13:AM:81:LEU:N	13:AM:81:LEU:HD23	2.10	0.67
18:AR:66:LEU:O	18:AR:70:ILE:HG13	1.95	0.67
19:AS:78:ARG:HB2	19:AS:81:ARG:NH1	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:13:ILE:HD13	27:B1:13:ILE:N	2.09	0.67
36:BA:1422:G:H4'	36:BA:1493:C:OP1	1.95	0.67
36:BA:1528(A):A:H2'	36:BA:1529:G:O4'	1.94	0.67
36:BA:1568:G:H4'	39:BD:59:LYS:HG2	1.77	0.67
38:BC:79:LYS:HG2	38:BC:118:ASP:OD2	1.95	0.67
42:BG:111:LEU:HB2	42:BG:112:PRO:CD	2.25	0.67
48:BP:47:ASP:HB2	48:BP:51:PHE:HB2	1.77	0.67
1:CA:824:C:H2'	1:CA:825:G:C8	2.29	0.67
1:CA:1158:C:O2'	1:CA:1159:U:H4'	1.95	0.67
4:CD:145:GLU:HA	4:CD:184:LYS:HA	1.77	0.67
5:CE:80:ILE:HD11	5:CE:138:ALA:HB1	1.76	0.67
10:CJ:67:THR:HG23	10:CJ:67:THR:O	1.94	0.67
11:CK:124:LYS:O	11:CK:127:LYS:HG2	1.94	0.67
13:CM:91:ARG:HH12	13:CM:103:THR:HG21	1.59	0.67
16:CP:53:VAL:HG23	16:CP:54:GLU:N	2.09	0.67
17:CQ:85:VAL:O	17:CQ:89:LEU:HG	1.95	0.67
36:DA:2028:U:H2'	36:DA:2029:G:O4'	1.95	0.67
39:DD:136:ILE:HD12	39:DD:136:ILE:N	2.08	0.67
39:DD:213:ARG:HD2	39:DD:217:ARG:O	1.95	0.67
49:DQ:12:GLN:NE2	49:DQ:73:PRO:HD2	2.10	0.67
49:DQ:34:LEU:HD12	49:DQ:130:LYS:O	1.95	0.67
52:DT:50:ILE:HG23	52:DT:99:LEU:HD12	1.76	0.67
52:DT:56:GLY:O	52:DT:59:THR:HG23	1.94	0.67
1:AA:274:A:O2'	1:AA:275:G:O4'	2.14	0.66
1:AA:675:A:H2'	1:AA:676:A:C8	2.31	0.66
1:AA:724:G:O2'	1:AA:725:G:H5'	1.95	0.66
1:AA:1411:C:O2'	1:AA:1412:C:H5'	1.95	0.66
1:AA:1440:C:O2	1:AA:1462:G:N1	2.28	0.66
3:AC:56:ASP:OD2	3:AC:69:HIS:NE2	2.28	0.66
5:AE:39:GLY:HA2	5:AE:69:VAL:HB	1.77	0.66
16:AP:67:THR:N	16:AP:70:ALA:HB3	2.07	0.66
24:AY:8:U:H5'	24:AY:49:G:OP2	1.95	0.66
27:B1:25:LYS:HB3	36:BA:388:G:H5'	1.77	0.66
27:B1:77:ALA:O	27:B1:82:LEU:HD22	1.95	0.66
32:B6:12:GLU:CD	32:B6:54:ILE:HG22	2.16	0.66
36:BA:21:A:H2'	36:BA:22:C:C6	2.29	0.66
36:BA:392:C:H2'	36:BA:393:C:H5'	1.76	0.66
36:BA:1664:A:H1'	36:BA:2726:U:C5	2.30	0.66
38:BC:20:TYR:HB3	38:BC:24:GLU:CB	2.25	0.66
40:BE:31:CYS:CB	40:BE:49:LEU:HD12	2.25	0.66
49:BQ:3:MET:HB2	49:BQ:4:PRO:HD2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1179:A:H4'	9:CI:103:THR:HA	1.76	0.66
1:CA:1308:U:O2'	1:CA:1309:G:H5'	1.95	0.66
4:CD:109:GLY:O	4:CD:111:ALA:N	2.26	0.66
5:CE:102:ALA:CB	5:CE:120:THR:HG21	2.24	0.66
6:CF:17:SER:O	6:CF:21:LEU:HD23	1.95	0.66
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CG1	2.24	0.66
13:CM:12:ASN:ND2	13:CM:46:LYS:HB2	2.09	0.66
20:CT:45:GLN:HB3	20:CT:91:LEU:HD13	1.75	0.66
24:CY:8:U:H5'	24:CY:49:G:OP2	1.96	0.66
26:D0:19:LYS:O	26:D0:21:LEU:HG	1.94	0.66
27:D1:13:ILE:CD1	36:DA:396:G:H5'	2.11	0.66
28:D2:3:LEU:CD1	36:DA:98:G:H5''	2.23	0.66
36:DA:191:A:O2'	36:DA:192:C:H5'	1.95	0.66
36:DA:471:A:H2'	36:DA:472:A:H5''	1.77	0.66
36:DA:525:U:O5'	36:DA:556:G:H5'	1.95	0.66
36:DA:660:G:H5'	41:DF:99:TYR:CD2	2.29	0.66
36:DA:1351:C:H2'	36:DA:1352:U:C6	2.30	0.66
36:DA:1988:C:O2'	36:DA:1989:G:H5'	1.95	0.66
36:DA:2189:U:H2'	36:DA:2190:G:C4'	2.24	0.66
39:DD:34:VAL:HG23	39:DD:35:LYS:N	2.10	0.66
40:DE:4:ILE:HD13	40:DE:28:ALA:HB1	1.75	0.66
41:DF:82:ILE:O	41:DF:83:PHE:HB3	1.94	0.66
49:DQ:18:LYS:HB3	49:DQ:98:LYS:NZ	2.10	0.66
49:DQ:134:ARG:HD2	58:DZ:122:ARG:HH21	1.58	0.66
50:DR:29:LEU:HD21	50:DR:52:ILE:HD11	1.76	0.66
52:DT:45:PHE:CE1	52:DT:74:ARG:HG3	2.30	0.66
1:AA:401:C:H2'	1:AA:402:G:C8	2.30	0.66
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.11	0.66
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.09	0.66
1:AA:1498:U:C4	23:AX:20:U:H4'	2.31	0.66
4:AD:20:TYR:HA	4:AD:26:CYS:HB3	1.77	0.66
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.25	0.66
18:AR:44:LEU:HD23	18:AR:48:GLY:O	1.94	0.66
22:AV:50:U:O2'	22:AV:51:U:H5'	1.94	0.66
22:AW:10:G:O2'	22:AW:11:C:H5'	1.95	0.66
25:AZ:313:HIS:HB3	25:AZ:403:ILE:HG21	1.75	0.66
32:B6:53:LYS:HG2	32:B6:54:ILE:N	2.10	0.66
36:BA:871:U:H4'	49:BQ:69:PHE:CZ	2.30	0.66
36:BA:1120:G:H2'	36:BA:1121:C:C6	2.30	0.66
36:BA:1242:A:N1	48:BP:8:PRO:HG3	2.10	0.66
36:BA:1390:U:O2'	36:BA:1391:U:H5'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1754:C:H5'	52:BT:113:LYS:NZ	2.09	0.66
36:BA:2810:A:O2'	40:BE:61:ARG:HB2	1.96	0.66
39:BD:23:GLU:O	39:BD:82:ILE:HD12	1.95	0.66
39:BD:166:GLN:HE21	39:BD:166:GLN:CA	1.98	0.66
39:BD:210:GLY:O	39:BD:211:ARG:HB3	1.96	0.66
40:BE:57:LYS:HE3	40:BE:57:LYS:CA	2.11	0.66
41:BF:57:VAL:HG12	41:BF:58:ALA:H	1.58	0.66
42:BG:19:LEU:HD23	42:BG:175:LEU:HD12	1.77	0.66
42:BG:117:PHE:CG	42:BG:118:ARG:N	2.62	0.66
42:BG:162:THR:O	42:BG:164:GLU:HG3	1.95	0.66
42:BG:180:PHE:HB2	42:BG:182:LYS:HZ2	1.59	0.66
46:BN:21:LYS:HD3	46:BN:22:THR:N	2.09	0.66
50:BR:100:LEU:HD22	50:BR:100:LEU:H	1.60	0.66
1:CA:1200:C:O2'	1:CA:1201:A:P	2.53	0.66
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.29	0.66
2:CB:229:VAL:CG1	2:CB:230:VAL:H	2.09	0.66
8:CH:94:TYR:N	8:CH:94:TYR:CD1	2.64	0.66
10:CJ:91:PRO:CB	10:CJ:94:VAL:HB	2.24	0.66
11:CK:111:ASP:CB	18:CR:84:LYS:HD2	2.25	0.66
20:CT:10:LEU:HD12	20:CT:11:SER:H	1.61	0.66
36:DA:963:U:H2'	36:DA:964:C:C6	2.30	0.66
36:DA:1422:G:H4'	36:DA:1493:C:OP1	1.95	0.66
36:DA:1566:A:OP1	39:DD:211:ARG:NH1	2.28	0.66
36:DA:1651:G:O2'	36:DA:1652:A:H5'	1.95	0.66
36:DA:2580:U:C5	36:DA:2581:G:C6	2.84	0.66
36:DA:2882:A:H5'	50:DR:96:ARG:HG3	1.77	0.66
42:DG:34:LEU:HA	42:DG:161:THR:HG22	1.77	0.66
51:DS:65:VAL:O	51:DS:69:VAL:HG12	1.94	0.66
51:DS:98:VAL:C	51:DS:100:ALA:H	1.98	0.66
52:DT:64:ARG:HB2	52:DT:73:GLU:HG2	1.75	0.66
57:DY:13:VAL:HG22	57:DY:14:LEU:N	2.09	0.66
58:DZ:10:ARG:NH2	58:DZ:26:GLY:O	2.29	0.66
1:AA:160:A:H2'	1:AA:161:A:O4'	1.94	0.66
1:AA:614:A:O2'	1:AA:615:C:H5'	1.94	0.66
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.60	0.66
2:AB:151:GLY:O	2:AB:153:ARG:N	2.28	0.66
4:AD:85:LYS:HD3	4:AD:92:VAL:CG1	2.25	0.66
4:AD:149:ALA:O	4:AD:153:ARG:HG3	1.95	0.66
9:AI:103:THR:HG22	9:AI:104:ARG:O	1.94	0.66
25:AZ:234:ARG:CD	25:AZ:289:LEU:HD22	2.25	0.66
27:B1:50:ARG:HG2	27:B1:59:THR:CG2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1466:G:H3'	36:BA:1547:C:H41	1.60	0.66
36:BA:1520:G:H2'	36:BA:1523:U:O4'	1.95	0.66
36:BA:1809:A:H2'	36:BA:1810:A:C8	2.31	0.66
36:BA:1902:C:H4'	39:BD:244:ARG:HB2	1.76	0.66
36:BA:2572:A:C8	40:BE:144:ARG:HD2	2.31	0.66
36:BA:2693:A:O2'	36:BA:2694:G:H5'	1.96	0.66
39:BD:144:ALA:HB3	39:BD:192:THR:HG22	1.75	0.66
40:BE:52:LEU:CB	40:BE:76:ARG:HB2	2.25	0.66
45:BK:7:UNK:HA	45:BK:58:UNK:HA	1.77	0.66
52:BT:38:ASN:C	52:BT:38:ASN:ND2	2.48	0.66
54:BV:24:LYS:H	54:BV:91:TYR:HA	1.60	0.66
1:CA:160:A:H2'	1:CA:161:A:O4'	1.95	0.66
1:CA:965:A:O2'	1:CA:966:G:H5''	1.94	0.66
1:CA:1321:C:H5''	1:CA:1322:C:H5''	1.77	0.66
11:CK:25:TYR:HE1	11:CK:87:THR:HB	1.60	0.66
13:CM:4:ILE:HD11	13:CM:10:PRO:HD3	1.77	0.66
19:CS:40:ILE:HG21	19:CS:67:VAL:HA	1.77	0.66
25:CZ:193:ASN:HB3	25:CZ:196:VAL:CG2	2.24	0.66
28:D2:2:LYS:HA	28:D2:5:GLU:CD	2.16	0.66
32:D6:18:ARG:HG2	32:D6:18:ARG:HH11	1.60	0.66
33:D7:21:ARG:HG2	33:D7:21:ARG:NH1	2.10	0.66
36:DA:142(A):C:O2'	36:DA:143:G:H5'	1.95	0.66
36:DA:271(B):C:H42	36:DA:271(W):G:N2	1.94	0.66
36:DA:776:G:H4'	36:DA:777:A:O5'	1.95	0.66
36:DA:1058:G:H8	36:DA:1058:G:O5'	1.77	0.66
36:DA:1144:G:H2'	36:DA:1145:C:C6	2.30	0.66
36:DA:2580:U:H3'	36:DA:2581:G:C2	2.30	0.66
41:DF:131:GLY:HA2	41:DF:138:GLU:OE1	1.94	0.66
42:DG:15:VAL:HG12	42:DG:19:LEU:CG	2.24	0.66
42:DG:102:PHE:HA	42:DG:105:LYS:HZ3	1.60	0.66
43:DH:85:LYS:NZ	43:DH:132:ARG:HA	2.10	0.66
1:AA:17:U:H2'	1:AA:18:C:H6	1.55	0.66
1:AA:1015:A:H1'	1:AA:1218:C:O2'	1.96	0.66
1:AA:1317:C:H2'	1:AA:1318:A:H5'	1.77	0.66
1:AA:1424:C:H2'	1:AA:1425:U:H6	1.59	0.66
5:AE:46:GLY:C	5:AE:47:LYS:HD3	2.16	0.66
7:AG:58:PRO:HG2	7:AG:59:LEU:H	1.59	0.66
10:AJ:55:LYS:HE3	10:AJ:55:LYS:N	2.09	0.66
22:AW:53:G:N2	22:AW:62:C:H42	1.92	0.66
30:B4:9:LEU:HD13	30:B4:10:VAL:H	1.61	0.66
36:BA:382:G:O2'	36:BA:383:U:H5'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:582:G:H1	36:BA:1258:C:N4	1.93	0.66
36:BA:1030:G:OP2	49:BQ:128:LYS:HE2	1.94	0.66
36:BA:1064:C:C3'	36:BA:1065:U:H5''	2.25	0.66
36:BA:1067:A:H3'	36:BA:1068:G:C5'	2.23	0.66
36:BA:1399:C:O2'	36:BA:1400:G:H5'	1.96	0.66
36:BA:1855:G:H2'	36:BA:1856:G:C8	2.31	0.66
36:BA:1899:G:N2	36:BA:1902:C:N4	2.44	0.66
37:BB:98:G:H2'	37:BB:99:G:H8	1.60	0.66
40:BE:165:VAL:HG12	40:BE:166:THR:H	1.59	0.66
43:BH:105:LEU:H	43:BH:105:LEU:HD23	1.59	0.66
48:BP:100:LEU:O	48:BP:103:ALA:HB3	1.95	0.66
53:BU:47:TYR:HA	53:BU:50:ARG:HD2	1.78	0.66
56:BX:26:TYR:CE2	56:BX:89:ILE:HB	2.30	0.66
58:BZ:7:ALA:O	58:BZ:62:PRO:HD3	1.95	0.66
1:CA:1507:A:H5''	1:CA:1507:A:H8	1.61	0.66
3:CC:142:MET:C	3:CC:144:SER:H	1.99	0.66
8:CH:64:LYS:HG2	8:CH:65:TYR:N	2.09	0.66
11:CK:92:GLU:HG3	11:CK:96:ARG:HH11	1.60	0.66
12:CL:55:VAL:CG2	12:CL:67:THR:HG22	2.25	0.66
16:CP:20:VAL:HG21	16:CP:32:TYR:CD2	2.30	0.66
18:CR:53:ARG:C	18:CR:55:ARG:H	1.98	0.66
25:CZ:67:HIS:HA	25:CZ:79:HIS:O	1.94	0.66
27:D1:56:GLN:OE1	27:D1:87:PRO:HD3	1.95	0.66
27:D1:62:VAL:CG1	27:D1:67:ILE:HG12	2.24	0.66
31:D5:55:ARG:HD3	31:D5:56:LYS:N	2.10	0.66
36:DA:582:G:H1	36:DA:1258:C:H42	1.44	0.66
36:DA:871:U:H4'	49:DQ:69:PHE:CZ	2.30	0.66
36:DA:1067:A:H3'	36:DA:1068:G:C5'	2.23	0.66
36:DA:1528(A):A:H2'	36:DA:1529:G:O4'	1.95	0.66
36:DA:2123:G:H2'	36:DA:2124:G:H8	1.60	0.66
36:DA:2413:G:H2'	36:DA:2414:G:H8	1.61	0.66
36:DA:2542:A:H5'	36:DA:2543:G:OP1	1.94	0.66
36:DA:2667:C:H2'	36:DA:2668:G:O4'	1.96	0.66
40:DE:120:TRP:HB3	40:DE:155:LYS:HE3	1.77	0.66
42:DG:32:PRO:HA	42:DG:162:THR:HB	1.76	0.66
42:DG:46:ALA:HA	42:DG:51:ARG:HB3	1.77	0.66
47:DO:19:ILE:HG22	47:DO:43:VAL:HA	1.77	0.66
48:DP:36:LYS:CB	48:DP:41:ARG:HB3	2.24	0.66
52:DT:4:GLY:O	52:DT:7:ILE:HB	1.95	0.66
54:DV:35:LEU:N	54:DV:35:LEU:HD22	2.10	0.66
55:DW:27:LYS:O	55:DW:70:TYR:HB2	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:72:LYS:HE2	55:DW:108:GLY:HA3	1.78	0.66
56:DX:49:VAL:HB	56:DX:87:GLN:NE2	2.11	0.66
1:AA:571:U:H2'	1:AA:572:A:H5''	1.77	0.66
1:AA:922:G:H1'	5:AE:19:MET:HB2	1.76	0.66
1:AA:1321:C:C3'	1:AA:1322:C:H5''	2.26	0.66
3:AC:12:LEU:O	3:AC:14:ILE:N	2.27	0.66
3:AC:36:ASP:O	3:AC:40:ARG:HG3	1.95	0.66
8:AH:89:PRO:HA	8:AH:92:ARG:HH11	1.59	0.66
12:AL:98:TYR:N	12:AL:98:TYR:CD1	2.62	0.66
17:AQ:85:VAL:O	17:AQ:89:LEU:HG	1.96	0.66
22:AV:56:C:C1'	42:BG:76:SER:HB2	2.25	0.66
22:AV:63:G:H2'	22:AV:64:A:H8	1.59	0.66
27:B1:3:LYS:HB3	27:B1:3:LYS:NZ	2.11	0.66
31:B5:57:VAL:C	31:B5:58:LEU:HD12	2.15	0.66
33:B7:12:ARG:HH21	33:B7:44:PRO:HB3	1.58	0.66
36:BA:18:C:O2'	53:BU:23:GLY:HA2	1.95	0.66
36:BA:83:G:O2'	36:BA:84:A:C8	2.49	0.66
36:BA:465:G:H2'	36:BA:466:A:C8	2.29	0.66
36:BA:593:G:O2'	36:BA:594:U:H5'	1.95	0.66
36:BA:764:A:H3'	36:BA:765:G:H5'	1.76	0.66
36:BA:1141:U:H2'	46:BN:63:THR:HG22	1.76	0.66
36:BA:1651:G:O2'	36:BA:1652:A:H5'	1.96	0.66
36:BA:2485:G:H5''	49:BQ:46:GLN:NE2	2.11	0.66
37:BB:42:C:N4	42:BG:91:ARG:CZ	2.58	0.66
39:BD:59:LYS:HG3	39:BD:60:ARG:N	2.09	0.66
46:BN:32:THR:HB	46:BN:33:LEU:HD12	1.77	0.66
46:BN:34:LEU:HD21	46:BN:120:LEU:HD23	1.78	0.66
48:BP:16:ARG:HB2	48:BP:16:ARG:NH1	2.11	0.66
49:BQ:51:ARG:O	49:BQ:54:MET:HB3	1.94	0.66
52:BT:24:PRO:HD3	52:BT:52:ILE:CD1	2.21	0.66
55:BW:37:ARG:HG3	55:BW:37:ARG:HH11	1.60	0.66
1:CA:346:G:H2'	1:CA:346:G:N3	2.11	0.66
1:CA:867:G:O2'	1:CA:868:C:H5'	1.95	0.66
3:CC:12:LEU:O	3:CC:14:ILE:N	2.29	0.66
3:CC:113:ALA:HB1	3:CC:200:ALA:CB	2.23	0.66
22:CV:50:U:O2'	22:CV:51:U:H5'	1.96	0.66
30:D4:16:CYS:HB2	30:D4:36:CYS:SG	2.36	0.66
36:DA:751:A:C5'	55:DW:90:ARG:HA	2.26	0.66
36:DA:1038:C:H2'	36:DA:1039:G:H5''	1.77	0.66
36:DA:1399:C:O2'	36:DA:1400:G:H5'	1.95	0.66
36:DA:1423:G:H2'	36:DA:1424:G:C8	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1605:C:H2'	36:DA:1606:G:H5'	1.78	0.66
36:DA:1694:C:H1'	36:DA:1695:G:N2	2.11	0.66
36:DA:2687:U:C5	36:DA:2688:U:C5	2.83	0.66
40:DE:167:VAL:HG11	40:DE:188:VAL:HA	1.77	0.66
47:DO:101:PRO:HD3	52:DT:68:TYR:HB2	1.76	0.66
51:DS:106:ARG:NH1	51:DS:106:ARG:HB3	2.11	0.66
58:DZ:11:GLU:OE1	58:DZ:38:TYR:HE2	1.78	0.66
4:AD:20:TYR:HA	4:AD:26:CYS:SG	2.34	0.66
5:AE:53:LEU:O	5:AE:56:GLN:N	2.28	0.66
11:AK:87:THR:O	11:AK:91:ARG:HG3	1.96	0.66
21:AU:2:GLY:C	21:AU:4:GLY:H	1.99	0.66
22:AV:6:G:H1	22:AV:67:C:N4	1.92	0.66
23:AX:20:U:H2'	23:AX:21:C:C6	2.28	0.66
25:AZ:204:ASP:O	25:AZ:208:GLU:HG2	1.96	0.66
27:B1:80:LEU:HD23	27:B1:81:LYS:H	1.59	0.66
33:B7:30:VAL:CG1	36:BA:466:A:H4'	2.25	0.66
36:BA:1144:G:H2'	36:BA:1145:C:C6	2.30	0.66
36:BA:2071:A:H2'	36:BA:2072:G:H8	1.61	0.66
36:BA:2405:G:H2'	36:BA:2411:A:N6	2.11	0.66
36:BA:2777:G:H5''	36:BA:2778:A:C5'	2.25	0.66
42:BG:10:LYS:HD2	42:BG:13:GLU:OE1	1.95	0.66
49:BQ:21:THR:O	49:BQ:22:LYS:HB3	1.96	0.66
51:BS:42:ASP:C	51:BS:44:LYS:H	1.99	0.66
53:BU:21:ALA:HB1	53:BU:24:TYR:CD1	2.31	0.66
54:BV:35:LEU:N	54:BV:35:LEU:HD22	2.10	0.66
58:BZ:58:VAL:HG22	58:BZ:68:PRO:CA	2.24	0.66
1:CA:501:C:O2'	1:CA:502:G:H5'	1.95	0.66
1:CA:553:A:H2'	1:CA:554:C:C6	2.30	0.66
1:CA:633:G:H5'	1:CA:634:C:OP2	1.96	0.66
2:CB:194:PRO:HG2	2:CB:195:ASP:H	1.61	0.66
5:CE:76:ILE:HG13	5:CE:77:PRO:HD2	1.78	0.66
10:CJ:47:PHE:O	10:CJ:62:HIS:HB2	1.95	0.66
25:CZ:118:GLU:O	25:CZ:121:LEU:HD23	1.95	0.66
25:CZ:356:PRO:N	25:CZ:359:VAL:CG2	2.57	0.66
27:D1:58:ILE:CG1	27:D1:59:THR:N	2.58	0.66
36:DA:407:G:H2'	36:DA:408:G:C8	2.29	0.66
36:DA:811:U:H5	48:DP:24:GLY:HA3	1.58	0.66
36:DA:1285:G:H4'	50:DR:105:ARG:NH1	2.10	0.66
36:DA:1747(A):G:H2'	36:DA:1748:G:O4'	1.96	0.66
36:DA:2011:U:H2'	36:DA:2012:G:O4'	1.94	0.66
36:DA:2113:U:H2'	36:DA:2114:A:C8	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2810:A:O2'	40:DE:61:ARG:HB2	1.95	0.66
39:DD:239:ARG:HG2	39:DD:239:ARG:HH21	1.59	0.66
53:DU:110:VAL:O	53:DU:113:ALA:HB3	1.94	0.66
58:DZ:11:GLU:CD	58:DZ:11:GLU:H	1.97	0.66
1:AA:426:G:H4'	4:AD:41:GLY:O	1.96	0.66
1:AA:920:U:H1'	1:AA:1080:A:C2	2.31	0.66
1:AA:936:C:O2'	1:AA:937:A:H5'	1.96	0.66
1:AA:1152:A:OP1	10:AJ:68:HIS:NE2	2.28	0.66
1:AA:1255:G:H21	1:AA:1258:G:H21	1.44	0.66
3:AC:187:ALA:O	3:AC:188:LEU:HD22	1.95	0.66
5:AE:76:ILE:HG13	5:AE:77:PRO:HD2	1.77	0.66
11:AK:92:GLU:HG3	11:AK:96:ARG:HH11	1.60	0.66
13:AM:34:LEU:HD22	13:AM:39:ILE:O	1.95	0.66
20:AT:64:ASP:O	20:AT:67:ALA:HB3	1.94	0.66
25:AZ:255:ILE:HD11	25:AZ:290:LEU:HD22	1.77	0.66
25:AZ:356:PRO:N	25:AZ:359:VAL:HG21	2.10	0.66
34:B8:39:LYS:HZ2	36:BA:2364:C:H5	1.43	0.66
36:BA:878:A:H5'	36:BA:878:A:N3	2.11	0.66
36:BA:1106:G:C2'	36:BA:1107:G:H5'	2.25	0.66
36:BA:2892:A:N7	36:BA:2893:G:N3	2.44	0.66
37:BB:68:C:H2'	37:BB:69:G:C8	2.27	0.66
38:BC:124:GLY:HA2	38:BC:128:GLY:HA3	1.76	0.66
41:BF:82:ILE:O	41:BF:83:PHE:HB3	1.94	0.66
42:BG:76:SER:CB	42:BG:83:ARG:HB3	2.26	0.66
43:BH:23:ARG:NH1	43:BH:36:PRO:HB3	2.10	0.66
50:BR:29:LEU:HD21	50:BR:52:ILE:HD11	1.76	0.66
52:BT:19:LEU:HD13	52:BT:78:LEU:CD2	2.26	0.66
57:BY:39:VAL:HG12	57:BY:40:GLU:N	2.10	0.66
1:CA:332:G:O2'	1:CA:333:G:H5'	1.95	0.66
1:CA:974:A:H2'	1:CA:974:A:N3	2.11	0.66
7:CG:69:VAL:HA	7:CG:138:LYS:CD	2.19	0.66
8:CH:14:ARG:HG3	8:CH:83:ILE:HG23	1.78	0.66
11:CK:125:PHE:HD1	11:CK:125:PHE:N	1.92	0.66
12:CL:37:CYS:HB2	12:CL:81:SER:O	1.96	0.66
12:CL:89:ARG:HD2	12:CL:91:LYS:HE2	1.77	0.66
13:CM:11:ARG:O	13:CM:13:LYS:N	2.29	0.66
14:CN:29:ARG:HG3	14:CN:29:ARG:HH11	1.60	0.66
14:CN:48:ALA:CA	14:CN:53:LEU:HD12	2.25	0.66
22:CV:41:C:O2	22:CV:41:C:C2'	2.44	0.66
25:CZ:234:ARG:CD	25:CZ:289:LEU:HD22	2.26	0.66
28:D2:49:LYS:O	28:D2:53:LEU:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:59:LYS:CD	48:DP:50:ARG:HB3	2.25	0.66
36:DA:189:G:H2'	36:DA:205:G:N2	2.11	0.66
36:DA:953:A:H2'	36:DA:954:G:H8	1.60	0.66
36:DA:1278:A:H5''	50:DR:36:THR:HG22	1.76	0.66
36:DA:1889:A:O2'	36:DA:2087:G:H5'	1.95	0.66
36:DA:2027:G:O2'	36:DA:2028:U:H5'	1.96	0.66
36:DA:2121:G:H2'	36:DA:2122:U:C6	2.31	0.66
36:DA:2175:C:O3'	38:DC:221:SER:HB3	1.95	0.66
36:DA:2693:A:O2'	36:DA:2694:G:H5'	1.96	0.66
36:DA:2833:G:C3'	36:DA:2834:G:H5''	2.25	0.66
38:DC:22:ILE:HG13	38:DC:228:SER:OG	1.95	0.66
43:DH:19:VAL:HG12	43:DH:20:ALA:N	2.11	0.66
50:DR:63:ARG:HG2	50:DR:80:PHE:CE2	2.29	0.66
56:DX:10:ALA:HB1	56:DX:11:PRO:HD2	1.78	0.66
1:AA:606:G:N2	1:AA:631:G:H2'	2.10	0.66
1:AA:866:C:H4'	1:AA:919:A:OP1	1.96	0.66
1:AA:943:U:H2'	1:AA:944:G:H5'	1.76	0.66
5:AE:71:LEU:O	5:AE:72:GLN:HG3	1.96	0.66
5:AE:100:VAL:CG2	5:AE:107:ARG:HH21	2.07	0.66
9:AI:7:THR:HG22	9:AI:8:GLY:H	1.60	0.66
9:AI:105:ASP:OD1	9:AI:107:ARG:HD3	1.96	0.66
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CG1	2.26	0.66
10:AJ:50:ILE:HG22	10:AJ:60:ARG:HG2	1.76	0.66
28:B2:32:LEU:HD12	28:B2:57:ILE:HG13	1.77	0.66
29:B3:26:LEU:HB2	29:B3:28:LEU:HD21	1.78	0.66
30:B4:20:ASN:HD22	30:B4:21:VAL:N	1.94	0.66
34:B8:13:ARG:NH2	36:BA:250:G:OP2	2.28	0.66
36:BA:2111:C:N4	36:BA:2145:C:H2'	2.10	0.66
36:BA:2175:C:O3'	38:BC:221:SER:HB3	1.96	0.66
39:BD:34:VAL:HG23	39:BD:35:LYS:N	2.11	0.66
42:BG:36:LYS:HG2	42:BG:37:VAL:N	2.10	0.66
49:BQ:48:GLU:HG2	49:BQ:52:VAL:HG23	1.76	0.66
52:BT:45:PHE:CE1	52:BT:74:ARG:HG3	2.30	0.66
56:BX:57:LEU:O	56:BX:57:LEU:HD22	1.96	0.66
58:BZ:149:SER:CB	58:BZ:173:ALA:HA	2.26	0.66
1:CA:952:U:O2'	1:CA:953:G:H5'	1.95	0.66
1:CA:1255:G:H21	1:CA:1258:G:H21	1.43	0.66
5:CE:87:SER:OG	5:CE:125:SER:HB3	1.96	0.66
9:CI:112:LYS:HD3	9:CI:112:LYS:C	2.15	0.66
13:CM:40:ASN:OD1	13:CM:41:PRO:HD2	1.96	0.66
32:D6:10:LEU:H	32:D6:10:LEU:HD22	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:D6:14:THR:O	32:D6:49:HIS:HA	1.96	0.66
36:DA:2137:C:N4	36:DA:2154:G:H22	1.93	0.66
36:DA:2235:G:H2'	36:DA:2236:C:C6	2.31	0.66
38:DC:47:LEU:HD12	38:DC:47:LEU:N	2.11	0.66
58:DZ:12:GLY:HA3	58:DZ:36:LYS:HZ2	1.60	0.66
58:DZ:163:LEU:HD11	58:DZ:165:VAL:CG2	2.26	0.66
1:AA:185:A:N3	20:AT:81:LYS:NZ	2.43	0.66
1:AA:585:G:H1	1:AA:756:C:H42	1.44	0.66
7:AG:84:ASN:OD1	22:AW:33:U:H5'	1.95	0.66
7:AG:125:MET:O	7:AG:128:ALA:HB3	1.95	0.66
9:AI:43:ALA:O	9:AI:45:ALA:N	2.29	0.66
19:AS:44:MET:O	19:AS:47:HIS:HB2	1.94	0.66
36:BA:272(B):G:H2'	36:BA:272(C):G:H8	1.61	0.66
36:BA:406:G:H2'	36:BA:407:G:C8	2.31	0.66
36:BA:803:U:C2'	36:BA:804:A:H5'	2.26	0.66
36:BA:2632:A:O2'	40:BE:61:ARG:NH2	2.29	0.66
39:BD:76:PRO:HG2	39:BD:98:VAL:CG2	2.26	0.66
40:BE:179:GLU:O	40:BE:180:ASN:HB2	1.94	0.66
46:BN:131:GLN:HE22	46:BN:133:GLN:HA	1.61	0.66
48:BP:136:GLU:HA	48:BP:139:LYS:HB2	1.78	0.66
51:BS:77:ALA:C	51:BS:79:ALA:H	1.96	0.66
52:BT:94:ALA:C	52:BT:96:ARG:H	1.99	0.66
54:BV:3:ALA:HB3	54:BV:14:VAL:HG23	1.78	0.66
1:CA:1513:A:H2'	1:CA:1514:C:H6	1.59	0.66
2:CB:48:MET:CA	2:CB:51:LEU:HD12	2.24	0.66
3:CC:116:VAL:O	3:CC:119:ARG:HB3	1.96	0.66
4:CD:30:LYS:O	4:CD:32:ALA:N	2.27	0.66
6:CF:25:ILE:HA	6:CF:28:ARG:HD2	1.77	0.66
8:CH:63:LEU:H	8:CH:63:LEU:CD2	2.09	0.66
13:CM:10:PRO:HG3	13:CM:18:ALA:HB1	1.77	0.66
20:CT:67:ALA:HA	20:CT:72:LEU:O	1.96	0.66
28:D2:41:ILE:HG13	28:D2:42:GLY:N	2.09	0.66
29:D3:10:LYS:O	29:D3:53:LEU:HD22	1.96	0.66
36:DA:461:C:O2'	36:DA:462:C:H5'	1.96	0.66
36:DA:709:U:H2'	36:DA:710:G:H8	1.61	0.66
36:DA:1673:U:O2	36:DA:1675:C:H5'	1.96	0.66
36:DA:2180:U:H2'	36:DA:2181:G:C8	2.31	0.66
36:DA:2359:C:H2'	36:DA:2360:A:H5'	1.76	0.66
36:DA:2485:G:H5''	49:DQ:46:GLN:NE2	2.11	0.66
41:DF:123:LEU:HD12	41:DF:124:LEU:H	1.60	0.66
45:DK:32:UNK:HA	45:DK:63:UNK:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:104:ARG:NH1	47:DO:104:ARG:HB2	2.09	0.66
48:DP:16:ARG:HD3	48:DP:18:ARG:H	1.60	0.66
51:DS:89:ARG:O	51:DS:92:TYR:HB3	1.95	0.66
57:DY:7:VAL:HG21	57:DY:8:LYS:NZ	2.10	0.66
1:AA:250:A:H2	1:AA:274:A:N1	1.94	0.66
3:AC:177:THR:HB	3:AC:180:ALA:HB2	1.77	0.66
5:AE:102:ALA:CB	5:AE:120:THR:HG21	2.26	0.66
13:AM:30:ALA:C	13:AM:32:GLU:H	1.99	0.66
22:AV:40:C:H2'	22:AV:41:C:H6	1.61	0.66
25:AZ:79:HIS:HD2	25:AZ:80:VAL:N	1.94	0.66
25:AZ:118:GLU:C	25:AZ:120:ILE:H	2.00	0.66
25:AZ:194:GLU:HB3	25:AZ:198:LYS:NZ	2.10	0.66
36:BA:481:G:H1'	36:BA:506:G:N2	2.10	0.66
36:BA:565:C:H4'	36:BA:1253:A:N1	2.11	0.66
36:BA:1028:A:N6	36:BA:1125:G:H2'	2.11	0.66
36:BA:2023:G:H5'	36:BA:2617:C:H4'	1.77	0.66
40:BE:78:LEU:O	40:BE:79:ARG:HD2	1.96	0.66
40:BE:135:HIS:O	40:BE:136:ARG:HG3	1.95	0.66
42:BG:46:ALA:HB3	42:BG:88:ILE:HG13	1.77	0.66
50:BR:42:LYS:O	50:BR:45:ARG:HG2	1.96	0.66
50:BR:42:LYS:O	50:BR:45:ARG:N	2.24	0.66
50:BR:45:ARG:HG3	50:BR:46:GLY:N	2.09	0.66
50:BR:52:ILE:CD1	50:BR:79:LEU:HD21	2.26	0.66
53:BU:88:ILE:HB	53:BU:90:VAL:CG2	2.26	0.66
1:CA:1328:C:H2'	1:CA:1329:A:H8	1.60	0.66
4:CD:188:LEU:HD23	4:CD:189:PRO:O	1.96	0.66
5:CE:101:ILE:O	5:CE:120:THR:HG22	1.95	0.66
12:CL:6:THR:OG1	12:CL:9:GLN:HG3	1.96	0.66
13:CM:108:ARG:HA	13:CM:108:ARG:NH1	2.10	0.66
19:CS:43:GLU:C	19:CS:45:VAL:H	1.96	0.66
21:CU:2:GLY:C	21:CU:4:GLY:H	2.00	0.66
31:D5:5:PRO:HA	36:DA:2056:G:H22	1.61	0.66
31:D5:57:VAL:C	31:D5:58:LEU:HD12	2.17	0.66
36:DA:38:A:H5'	41:DF:50:SER:OG	1.95	0.66
36:DA:1064:C:C3'	36:DA:1065:U:H5''	2.25	0.66
36:DA:1579:A:H2'	36:DA:1580:A:C1'	2.26	0.66
36:DA:1592:C:H2'	36:DA:1593:G:H8	1.61	0.66
36:DA:1654:A:OP2	50:DR:3:HIS:HD2	1.78	0.66
38:DC:147:PHE:C	38:DC:149:ILE:N	2.49	0.66
42:DG:113:ARG:O	42:DG:115:ARG:N	2.27	0.66
52:DT:19:LEU:HD13	52:DT:78:LEU:HD22	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:532:A:H2	1:AA:1206:G:H21	1.44	0.65
1:AA:927:G:H5'	1:AA:927:G:H8	1.61	0.65
2:AB:212:GLN:NE2	2:AB:216:SER:HB2	2.10	0.65
9:AI:57:GLY:O	9:AI:58:HIS:HB2	1.96	0.65
13:AM:21:TYR:C	13:AM:22:ILE:HD12	2.15	0.65
14:AN:48:ALA:HA	14:AN:53:LEU:HB2	1.79	0.65
17:AQ:66:SER:OG	17:AQ:69:LYS:HB3	1.96	0.65
19:AS:5:LEU:HD12	19:AS:8:GLY:O	1.96	0.65
21:AU:6:ARG:HD3	21:AU:15:ARG:NH1	2.11	0.65
26:B0:43:THR:HG23	26:B0:43:THR:O	1.96	0.65
32:B6:15:GLU:OE2	32:B6:41:PRO:CB	2.45	0.65
36:BA:614(A):U:H4'	36:BA:614(B):G:OP1	1.95	0.65
36:BA:894:C:C2'	36:BA:895:U:H5'	2.25	0.65
36:BA:1971:A:N3	39:BD:240:ALA:HA	2.11	0.65
36:BA:2068:U:N3	36:BA:2430:A:C2	2.54	0.65
36:BA:2183:C:O2'	36:BA:2184:G:H5'	1.96	0.65
36:BA:2286:A:H4'	36:BA:2287:A:O4'	1.96	0.65
36:BA:2496:C:OP1	49:BQ:83:MET:HG2	1.96	0.65
36:BA:2579:C:O2'	40:BE:131:ALA:CB	2.44	0.65
36:BA:2772:C:H5'	40:BE:168:MET:HE3	1.77	0.65
38:BC:140:PRO:C	38:BC:142:ALA:H	1.98	0.65
39:BD:148:GLU:HB3	39:BD:151:LYS:HD2	1.77	0.65
47:BO:17:ARG:O	47:BO:18:LYS:HB2	1.95	0.65
48:BP:7:ARG:HB3	48:BP:8:PRO:HD3	1.77	0.65
49:BQ:66:ILE:O	49:BQ:66:ILE:HG13	1.95	0.65
51:BS:27:SER:HA	51:BS:88:ASP:HB3	1.77	0.65
51:BS:77:ALA:HA	51:BS:80:LEU:HD12	1.78	0.65
51:BS:98:VAL:C	51:BS:100:ALA:H	1.99	0.65
52:BT:89:VAL:HG21	52:BT:91:ARG:HH21	1.59	0.65
1:CA:575:G:OP1	1:CA:575:G:H4'	1.94	0.65
1:CA:606:G:N2	1:CA:631:G:H2'	2.10	0.65
1:CA:675:A:H2'	1:CA:676:A:C8	2.31	0.65
1:CA:1403:C:O5'	1:CA:1403:C:H6	1.79	0.65
2:CB:130:ARG:CZ	2:CB:134:GLU:HG3	2.26	0.65
2:CB:154:LEU:HD23	2:CB:156:LYS:NZ	2.12	0.65
9:CI:103:THR:HG22	9:CI:104:ARG:O	1.96	0.65
30:D4:20:ASN:HD22	30:D4:21:VAL:N	1.94	0.65
36:DA:83:G:N2	36:DA:102:G:H2'	2.11	0.65
36:DA:272(D):G:H2'	36:DA:272(E):G:C8	2.31	0.65
36:DA:532:A:H5''	53:DU:28:ARG:HH12	1.61	0.65
36:DA:1515:G:H4'	36:DA:1556:C:O2'	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1520:G:H2'	36:DA:1523:U:O4'	1.95	0.65
36:DA:2310:A:O2'	36:DA:2311:A:H5''	1.95	0.65
39:DD:2:ALA:O	39:DD:3:VAL:O	2.14	0.65
39:DD:148:GLU:HB3	39:DD:151:LYS:HD2	1.78	0.65
42:DG:5:VAL:CG1	42:DG:6:ALA:H	2.09	0.65
58:DZ:76:LEU:CD1	58:DZ:81:ARG:HH12	2.08	0.65
1:AA:80:G:C2'	1:AA:81:U:H5'	2.26	0.65
20:AT:45:GLN:HA	20:AT:91:LEU:HB3	1.79	0.65
22:AW:64:A:H2'	22:AW:65:G:C8	2.32	0.65
32:B6:15:GLU:HB2	32:B6:20:ASN:CB	2.27	0.65
36:BA:185:U:H4'	36:BA:218:A:H4'	1.78	0.65
36:BA:442:G:O4'	41:BF:46:ARG:HD3	1.96	0.65
36:BA:471:A:H2'	36:BA:472:A:H5''	1.77	0.65
36:BA:523:C:H4'	36:BA:540:C:O2	1.95	0.65
36:BA:2181:G:H2'	36:BA:2182:G:C8	2.23	0.65
36:BA:2304:G:N2	36:BA:2312:U:H3	1.94	0.65
36:BA:2361:A:H2'	36:BA:2362:G:H8	1.60	0.65
36:BA:2656:U:C2'	36:BA:2657:A:H5''	2.26	0.65
40:BE:167:VAL:HB	40:BE:189:PRO:HD3	1.79	0.65
42:BG:138:GLN:O	42:BG:140:ILE:HG13	1.96	0.65
42:BG:146:TYR:C	42:BG:148:MET:H	1.99	0.65
43:BH:83:TYR:HB3	43:BH:135:GLY:O	1.96	0.65
47:BO:96:THR:O	47:BO:97:ARG:HG2	1.96	0.65
52:BT:117:ASP:OD2	52:BT:120:ARG:HG3	1.96	0.65
1:CA:167:G:O2'	1:CA:168:G:H5'	1.97	0.65
1:CA:250:A:H2	1:CA:274:A:N1	1.93	0.65
1:CA:924:C:H2'	1:CA:925:G:C8	2.31	0.65
1:CA:973:G:H1'	10:CJ:55:LYS:NZ	2.12	0.65
3:CC:77:ILE:HA	3:CC:84:ILE:HG22	1.76	0.65
5:CE:100:VAL:HG23	5:CE:107:ARG:NH2	2.10	0.65
13:CM:34:LEU:CD1	13:CM:41:PRO:HG3	2.26	0.65
16:CP:45:THR:C	16:CP:47:ASP:H	1.98	0.65
31:D5:4:HIS:O	36:DA:2056:G:N2	2.29	0.65
32:D6:6:ARG:HH11	32:D6:6:ARG:CB	2.07	0.65
36:DA:473:G:H5''	36:DA:508:G:N2	2.11	0.65
36:DA:729:G:H2'	36:DA:1775:U:O2	1.96	0.65
36:DA:760:G:H3'	36:DA:761:A:C8	2.32	0.65
36:DA:782:A:H5'	36:DA:783:A:C2	2.31	0.65
36:DA:1106:G:C2'	36:DA:1107:G:H5'	2.26	0.65
36:DA:1224:C:O2'	54:DV:85:LYS:HA	1.97	0.65
36:DA:1343:G:H2'	36:DA:1344:G:H5'	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1824:G:H5'	39:DD:52:ARG:HH11	1.61	0.65
36:DA:1927:A:H2'	36:DA:1928:A:C8	2.31	0.65
36:DA:2230:G:H2'	36:DA:2231:C:C6	2.31	0.65
36:DA:2726:U:O2	36:DA:2726:U:H5'	1.96	0.65
37:DB:17:C:N4	37:DB:68:C:H42	1.91	0.65
42:DG:125:PHE:C	42:DG:127:GLY:H	1.99	0.65
1:AA:18:C:C5'	5:AE:127:ASN:HD21	2.05	0.65
1:AA:375:U:OP1	16:AP:69:THR:HG21	1.96	0.65
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.62	0.65
2:AB:168:THR:HG23	2:AB:192:SER:OG	1.97	0.65
2:AB:189:ASP:HB3	2:AB:203:GLY:O	1.97	0.65
6:AF:19:LEU:HD23	6:AF:20:ALA:N	2.10	0.65
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.64	0.65
13:AM:12:ASN:ND2	13:AM:46:LYS:HB2	2.11	0.65
13:AM:91:ARG:CB	13:AM:98:VAL:HG22	2.25	0.65
25:AZ:306:LYS:HB3	25:AZ:309:SER:HB2	1.78	0.65
34:B8:22:VAL:HG21	34:B8:53:PRO:HB2	1.78	0.65
34:B8:34:TRP:HA	36:BA:2420:C:OP1	1.96	0.65
34:B8:59:LYS:CD	48:BP:50:ARG:HB3	2.26	0.65
36:BA:371:A:H61	36:BA:401:A:H3'	1.62	0.65
36:BA:1177:A:H5'	36:BA:1178:C:C5	2.32	0.65
36:BA:1568:G:P	39:BD:63:ARG:HH22	2.20	0.65
36:BA:1592:C:H2'	36:BA:1593:G:H8	1.61	0.65
36:BA:2007:C:H5'	36:BA:2824:C:H1'	1.78	0.65
36:BA:2631:G:H21	40:BE:61:ARG:HH12	1.43	0.65
40:BE:38:THR:HG22	40:BE:40:GLU:N	2.10	0.65
43:BH:65:HIS:C	43:BH:67:LEU:H	2.00	0.65
43:BH:132:ARG:O	43:BH:132:ARG:HG3	1.97	0.65
46:BN:58:ASP:O	46:BN:60:ILE:N	2.29	0.65
46:BN:133:GLN:HG2	46:BN:134:ARG:N	2.11	0.65
47:BO:88:ASN:HD21	47:BO:92:GLU:HB3	1.60	0.65
49:BQ:12:GLN:NE2	49:BQ:73:PRO:HD2	2.09	0.65
50:BR:61:HIS:CE1	50:BR:65:LEU:HD22	2.31	0.65
52:BT:129:ARG:HG3	52:BT:129:ARG:O	1.96	0.65
53:BU:38:THR:O	53:BU:41:ALA:HB3	1.96	0.65
1:CA:307:C:H2'	1:CA:307:C:O2	1.97	0.65
1:CA:382:A:O2'	1:CA:383:A:H5'	1.96	0.65
1:CA:767:A:H2'	1:CA:768:A:C8	2.31	0.65
1:CA:892:A:H2'	1:CA:893:C:C6	2.30	0.65
1:CA:1015:A:H1'	1:CA:1218:C:O2'	1.95	0.65
1:CA:1516:G:H2'	1:CA:1518:A:OP2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:84:GLU:HB3	2:CB:219:VAL:CG2	2.20	0.65
7:CG:102:ARG:HG2	7:CG:106:GLN:HE21	1.60	0.65
11:CK:57:THR:HG23	11:CK:60:ALA:H	1.61	0.65
25:CZ:138:VAL:HG11	25:CZ:172:ARG:HB3	1.79	0.65
26:D0:19:LYS:HB3	26:D0:21:LEU:HD21	1.76	0.65
28:D2:38:GLN:HB2	28:D2:44:LEU:HD22	1.78	0.65
36:DA:76:C:H2'	36:DA:77:C:C6	2.31	0.65
36:DA:90:U:O2'	36:DA:92:A:H5''	1.96	0.65
36:DA:628:G:H2'	36:DA:629:G:C5'	2.25	0.65
36:DA:1170:G:H22	36:DA:1179:C:N4	1.94	0.65
36:DA:2084:C:H2'	36:DA:2085:C:H6	1.62	0.65
36:DA:2125:G:H5'	38:DC:40:THR:OG1	1.96	0.65
36:DA:2656:U:C2'	36:DA:2657:A:H5''	2.27	0.65
39:DD:148:GLU:CB	39:DD:151:LYS:HD2	2.26	0.65
42:DG:42:GLY:HA2	42:DG:90:LEU:H	1.61	0.65
43:DH:86:GLU:N	43:DH:86:GLU:OE2	2.30	0.65
46:DN:54:VAL:HB	46:DN:122:VAL:HG13	1.77	0.65
1:AA:547:A:H4'	1:AA:548:G:O5'	1.94	0.65
1:AA:972:C:O3'	10:AJ:57:LYS:CG	2.44	0.65
1:AA:1431:C:H2'	1:AA:1432:G:O4'	1.96	0.65
1:AA:1491:G:C2'	59:AA:1601:PAR:O31	2.42	0.65
2:AB:16:HIS:HB3	2:AB:210:SER:CB	2.26	0.65
2:AB:47:THR:HG23	2:AB:202:PRO:HG2	1.78	0.65
7:AG:100:ALA:O	7:AG:104:LEU:HD23	1.96	0.65
10:AJ:54:PHE:CA	10:AJ:55:LYS:HE3	2.25	0.65
19:AS:43:GLU:C	19:AS:45:VAL:H	1.98	0.65
22:AW:55:U:H5	22:AW:58:A:OP2	1.79	0.65
27:B1:24:ALA:HB2	27:B1:32:LYS:NZ	2.11	0.65
28:B2:31:GLU:C	28:B2:33:MET:N	2.45	0.65
34:B8:4:MET:HE3	34:B8:61:LEU:HD21	1.78	0.65
36:BA:94(A):G:C2'	36:BA:95:G:H5''	2.19	0.65
36:BA:709:U:H2'	36:BA:710:G:H8	1.61	0.65
36:BA:1799:G:H5'	36:BA:1819:A:H61	1.61	0.65
36:BA:2337:G:H2'	36:BA:2338:G:H8	1.61	0.65
40:BE:167:VAL:HG21	40:BE:187:ALA:O	1.97	0.65
41:BF:24:LEU:O	41:BF:26:ALA:N	2.30	0.65
41:BF:124:LEU:HD12	41:BF:125:LEU:H	1.61	0.65
43:BH:89:ILE:O	43:BH:89:ILE:HG13	1.96	0.65
46:BN:48:MET:N	46:BN:48:MET:HE3	2.12	0.65
52:BT:52:ILE:HG12	52:BT:61:PHE:HB3	1.76	0.65
53:BU:88:ILE:HB	53:BU:90:VAL:HG23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:19:LYS:HG2	54:BV:94:LEU:CB	2.25	0.65
55:BW:65:LEU:HD23	55:BW:68:ARG:HD2	1.79	0.65
58:BZ:109:ALA:HB3	58:BZ:144:LEU:O	1.96	0.65
1:CA:563:A:H2'	1:CA:563:A:N3	2.12	0.65
4:CD:79:PHE:HA	4:CD:93:PHE:CE2	2.32	0.65
6:CF:80:ARG:NH1	6:CF:88:VAL:HB	2.10	0.65
10:CJ:27:ALA:O	10:CJ:31:GLY:N	2.30	0.65
12:CL:119:LYS:O	12:CL:120:TYR:CG	2.50	0.65
25:CZ:389:ARG:NH2	25:CZ:393:ARG:N	2.45	0.65
26:D0:43:THR:HG23	26:D0:43:THR:O	1.96	0.65
36:DA:142:A:H1'	36:DA:1408:C:H1'	1.78	0.65
36:DA:292:C:O2'	36:DA:293:U:H5'	1.96	0.65
36:DA:1473:G:H2'	36:DA:1474:C:O4'	1.96	0.65
36:DA:1902:C:O4'	39:DD:244:ARG:HG3	1.96	0.65
36:DA:2015:A:H2'	36:DA:2016:U:O4'	1.96	0.65
36:DA:2126:A:H4'	36:DA:2127:G:O5'	1.95	0.65
36:DA:2159:G:H2'	36:DA:2160:G:H5''	1.79	0.65
36:DA:2892:A:N7	36:DA:2893:G:N3	2.44	0.65
39:DD:23:GLU:O	39:DD:82:ILE:HD12	1.96	0.65
39:DD:142:VAL:HG23	39:DD:192:THR:O	1.96	0.65
48:DP:136:GLU:HA	48:DP:139:LYS:HB2	1.77	0.65
53:DU:88:ILE:HB	53:DU:90:VAL:CG2	2.26	0.65
58:DZ:23:LYS:HD3	58:DZ:38:TYR:CD1	2.31	0.65
1:AA:46:G:H1'	1:AA:396:G:N2	2.11	0.65
1:AA:1226:C:N4	13:AM:104:ARG:HD2	2.11	0.65
1:AA:1321:C:C5'	1:AA:1322:C:H5''	2.26	0.65
2:AB:204:ASN:HD21	2:AB:206:ASP:H	1.43	0.65
9:AI:22:GLY:O	9:AI:59:PHE:N	2.29	0.65
11:AK:57:THR:HG23	11:AK:60:ALA:H	1.60	0.65
25:AZ:118:GLU:O	25:AZ:121:LEU:HD23	1.96	0.65
27:B1:3:LYS:HD3	36:BA:1364:G:N7	2.12	0.65
36:BA:328:U:H4'	57:BY:68:HIS:CE1	2.31	0.65
36:BA:380:U:H2'	36:BA:381:G:C8	2.32	0.65
36:BA:519:U:H5''	55:BW:25:ARG:NH1	2.12	0.65
36:BA:691:C:O2'	36:BA:692:C:H5'	1.96	0.65
36:BA:864:G:H1'	36:BA:914:C:N4	2.12	0.65
36:BA:1673:U:O2	36:BA:1675:C:H5'	1.96	0.65
36:BA:1796:U:H2'	36:BA:1797:C:C6	2.31	0.65
41:BF:171:PRO:O	41:BF:173:VAL:N	2.30	0.65
43:BH:67:LEU:HG	43:BH:71:LEU:CD1	2.26	0.65
57:BY:7:VAL:HG21	57:BY:8:LYS:NZ	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:14:LEU:HD13	57:BY:24:VAL:HG22	1.78	0.65
57:BY:96:ILE:HD11	57:BY:99:CYS:SG	2.36	0.65
58:BZ:77:ASP:O	58:BZ:78:LYS:HB2	1.97	0.65
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.11	0.65
1:CA:1320:C:N4	19:CS:36:ARG:HG3	2.10	0.65
3:CC:181:ASN:ND2	3:CC:204:LEU:HB2	2.11	0.65
10:CJ:55:LYS:HE3	10:CJ:55:LYS:N	2.10	0.65
13:CM:96:LEU:HB3	13:CM:97:PRO:HD2	1.78	0.65
25:CZ:204:ASP:O	25:CZ:208:GLU:HG2	1.95	0.65
34:D8:13:ARG:NH1	48:DP:59:LEU:HG	2.11	0.65
36:DA:271(H):G:O2'	36:DA:271(I):G:H8	1.72	0.65
36:DA:1799:G:H5'	36:DA:1819:A:H61	1.62	0.65
36:DA:2007:C:H5'	36:DA:2824:C:H1'	1.77	0.65
41:DF:57:VAL:HG12	41:DF:58:ALA:H	1.60	0.65
46:DN:45:ASN:N	46:DN:45:ASN:ND2	2.42	0.65
48:DP:131:SER:OG	48:DP:134:ALA:HB3	1.97	0.65
49:DQ:79:LEU:HD23	49:DQ:80:GLU:N	2.11	0.65
53:DU:20:LEU:H	53:DU:20:LEU:CD2	2.09	0.65
57:DY:7:VAL:HB	57:DY:8:LYS:CD	2.24	0.65
1:AA:225:C:H2'	1:AA:226:G:H8	1.62	0.65
1:AA:795:C:H1'	1:AA:1506:U:C5	2.30	0.65
3:AC:30:ARG:HD2	14:AN:38:GLY:HA3	1.78	0.65
3:AC:120:VAL:O	3:AC:124:ILE:HG13	1.96	0.65
5:AE:12:LEU:HD22	5:AE:13:ILE:N	2.11	0.65
6:AF:2:ARG:CZ	6:AF:69:GLU:HG3	2.27	0.65
25:AZ:248:LYS:HD3	25:AZ:279:GLU:HG3	1.79	0.65
25:AZ:356:PRO:HD2	25:AZ:359:VAL:HG21	1.79	0.65
32:B6:15:GLU:OE1	32:B6:18:ARG:NE	2.30	0.65
36:BA:1902:C:H1'	39:BD:244:ARG:NE	2.12	0.65
36:BA:2113:U:H2'	36:BA:2114:A:C8	2.31	0.65
36:BA:2317:C:C2'	36:BA:2318:G:H5'	2.26	0.65
36:BA:2787:C:H2'	36:BA:2787:C:O2	1.97	0.65
37:BB:20:C:H2'	37:BB:21:G:C5'	2.25	0.65
38:BC:147:PHE:C	38:BC:149:ILE:N	2.48	0.65
40:BE:83:ASP:O	40:BE:84:PHE:HB2	1.95	0.65
42:BG:107:LEU:O	42:BG:111:LEU:HD11	1.97	0.65
48:BP:131:SER:OG	48:BP:134:ALA:HB3	1.96	0.65
52:BT:56:GLY:O	52:BT:59:THR:HG23	1.97	0.65
53:BU:79:PHE:O	53:BU:83:LEU:HD13	1.97	0.65
55:BW:27:LYS:O	55:BW:70:TYR:HB2	1.97	0.65
55:BW:82:LEU:HB3	55:BW:84:ARG:NH1	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:75:LYS:O	2:CB:77:ALA:N	2.28	0.65
6:CF:10:LEU:HD12	6:CF:10:LEU:N	2.11	0.65
22:CW:53:G:N2	22:CW:62:C:N4	2.45	0.65
27:D1:45:ASN:O	27:D1:64:ALA:HB2	1.96	0.65
27:D1:70:VAL:HA	27:D1:73:LEU:HD13	1.79	0.65
36:DA:523:C:H4'	36:DA:540:C:O2	1.96	0.65
36:DA:678:C:H2'	36:DA:679:C:H6	1.62	0.65
36:DA:747:U:O3'	55:DW:89:ALA:HB2	1.96	0.65
36:DA:845:G:OP2	36:DA:845:G:H8	1.79	0.65
36:DA:2087:G:O2'	36:DA:2088:G:H5'	1.95	0.65
36:DA:2626:C:H2'	36:DA:2627:G:C8	2.32	0.65
36:DA:2632:A:O2'	40:DE:61:ARG:NH2	2.30	0.65
40:DE:38:THR:HG22	40:DE:40:GLU:N	2.11	0.65
40:DE:202:LYS:HD2	40:DE:202:LYS:N	2.11	0.65
42:DG:138:GLN:HB3	42:DG:153:ARG:O	1.97	0.65
48:DP:122:PRO:HB3	48:DP:141:ALA:HB1	1.78	0.65
49:DQ:48:GLU:HG2	49:DQ:52:VAL:HG23	1.79	0.65
51:DS:27:SER:HA	51:DS:88:ASP:HB3	1.76	0.65
55:DW:29:LEU:O	55:DW:33:ARG:HG3	1.97	0.65
1:AA:307:C:O2	1:AA:307:C:H2'	1.96	0.65
1:AA:935:A:H2'	1:AA:936:C:C6	2.32	0.65
2:AB:154:LEU:O	2:AB:156:LYS:N	2.30	0.65
2:AB:213:LEU:O	2:AB:216:SER:HB3	1.96	0.65
3:AC:207:VAL:O	3:AC:207:VAL:HG12	1.95	0.65
4:AD:95:GLY:O	4:AD:98:GLU:N	2.28	0.65
4:AD:100:ARG:HG2	4:AD:102:ASP:OD1	1.96	0.65
25:AZ:355:LEU:HB3	25:AZ:359:VAL:HB	1.78	0.65
26:B0:19:LYS:O	26:B0:21:LEU:HG	1.96	0.65
27:B1:44:PRO:O	27:B1:46:LEU:N	2.30	0.65
27:B1:71:TYR:HA	27:B1:74:VAL:CG2	2.26	0.65
30:B4:16:CYS:SG	30:B4:17:GLY:N	2.70	0.65
34:B8:8:LYS:HA	34:B8:11:LYS:HB3	1.77	0.65
36:BA:216:A:O2'	36:BA:217:G:H5'	1.96	0.65
36:BA:612:C:C2'	36:BA:613:G:H5''	2.27	0.65
36:BA:1326:U:H2'	36:BA:1327:C:C6	2.31	0.65
36:BA:2023:G:H4'	36:BA:2617:C:O3'	1.97	0.65
39:BD:166:GLN:HB3	39:BD:174:ILE:HB	1.79	0.65
40:BE:4:ILE:O	40:BE:5:LEU:HD23	1.97	0.65
46:BN:42:TRP:CZ2	46:BN:44:PRO:HA	2.32	0.65
48:BP:135:LEU:HD13	48:BP:135:LEU:O	1.97	0.65
58:BZ:151:HIS:HA	58:BZ:171:ILE:HD11	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:15:G:C4'	5:CE:24:ARG:HH21	2.09	0.65
1:CA:675:A:H2'	1:CA:676:A:H8	1.61	0.65
1:CA:1351:U:O2'	1:CA:1352:C:H5'	1.97	0.65
1:CA:1442(A):G:H5''	52:DT:118:ARG:HH12	1.60	0.65
1:CA:1497:G:C2'	1:CA:1498:U:H5'	2.25	0.65
12:CL:41:ARG:HG3	12:CL:41:ARG:NH1	2.09	0.65
25:CZ:241:ARG:CB	25:CZ:285:ASN:HD21	2.09	0.65
25:CZ:310:ILE:HD11	25:CZ:381:GLU:HB3	1.79	0.65
26:D0:30:VAL:HA	26:D0:66:VAL:HA	1.78	0.65
28:D2:48:HIS:O	28:D2:52:ASP:HB2	1.97	0.65
29:D3:23:LEU:C	29:D3:25:ALA:H	1.97	0.65
32:D6:15:GLU:OE2	32:D6:41:PRO:CB	2.45	0.65
34:D8:34:TRP:HA	36:DA:2420:C:OP1	1.96	0.65
34:D8:52:LYS:HG2	48:DP:58:THR:HG21	1.78	0.65
35:D9:29:ASN:ND2	35:D9:29:ASN:O	2.30	0.65
36:DA:272(B):G:H1	36:DA:366:C:H42	1.41	0.65
36:DA:272(I):U:H2'	36:DA:272(J):C:H5'	1.79	0.65
36:DA:894:C:C2'	36:DA:895:U:H5'	2.26	0.65
36:DA:1018:C:H2'	36:DA:1019:U:C6	2.32	0.65
36:DA:1390:U:O2'	36:DA:1391:U:H5'	1.96	0.65
36:DA:1657:C:O2'	36:DA:1658:C:H5'	1.97	0.65
36:DA:2245:U:H5'	36:DA:2246:G:C5'	2.27	0.65
36:DA:2393:A:C2'	36:DA:2394:C:H5'	2.26	0.65
36:DA:2875:C:H4'	52:DT:5:ALA:CB	2.27	0.65
38:DC:20:TYR:HB3	38:DC:24:GLU:CB	2.26	0.65
38:DC:58:VAL:HG22	38:DC:201:PRO:CD	2.26	0.65
38:DC:140:PRO:C	38:DC:142:ALA:H	1.98	0.65
48:DP:23:PRO:HD2	48:DP:33:ARG:HH21	1.62	0.65
57:DY:2:ARG:HD3	57:DY:3:VAL:HG23	1.76	0.65
1:AA:673:G:H5''	6:AF:87:ARG:CZ	2.26	0.65
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.32	0.65
3:AC:68:VAL:HG12	3:AC:70:VAL:CG2	2.26	0.65
6:AF:80:ARG:NH1	6:AF:88:VAL:HB	2.12	0.65
8:AH:14:ARG:HB2	8:AH:14:ARG:NH1	2.12	0.65
10:AJ:63:PHE:HA	14:AN:59:ALA:H	1.62	0.65
13:AM:11:ARG:O	13:AM:13:LYS:N	2.29	0.65
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	1.78	0.65
25:AZ:241:ARG:CB	25:AZ:285:ASN:HD21	2.10	0.65
27:B1:25:LYS:CB	36:BA:388:G:H5'	2.27	0.65
34:B8:23:VAL:HG13	34:B8:47:LYS:O	1.96	0.65
36:BA:344:G:H3'	36:BA:344:G:OP2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:736:C:H42	36:BA:760:G:H1	1.43	0.65
36:BA:1423:G:H2'	36:BA:1424:G:C8	2.31	0.65
36:BA:1858:G:H1'	36:BA:1884:A:N6	2.11	0.65
36:BA:2180:U:H2'	36:BA:2181:G:C8	2.32	0.65
38:BC:215:THR:OG1	38:BC:216:THR:N	2.29	0.65
41:BF:178:PRO:HB2	41:BF:201:VAL:HG11	1.76	0.65
49:BQ:45:GLN:H	49:BQ:45:GLN:HE21	1.41	0.65
55:BW:29:LEU:O	55:BW:33:ARG:HG3	1.96	0.65
55:BW:72:LYS:HE2	55:BW:108:GLY:HA3	1.77	0.65
1:CA:454:C:H5''	1:CA:455:C:C5	2.31	0.65
1:CA:673:G:H5''	6:CF:87:ARG:CZ	2.27	0.65
2:CB:179:LYS:HA	8:CH:72:PRO:CD	2.27	0.65
25:CZ:118:GLU:C	25:CZ:120:ILE:H	2.00	0.65
28:D2:32:LEU:HA	28:D2:53:LEU:HD13	1.78	0.65
32:D6:8:LYS:HE3	32:D6:25:LYS:CD	2.26	0.65
36:DA:8:A:H2'	36:DA:9:U:C5	2.32	0.65
36:DA:702:G:O2'	36:DA:703:U:H5'	1.96	0.65
36:DA:1120:G:H2'	36:DA:1121:C:C6	2.31	0.65
36:DA:1132:A:H2'	36:DA:1133:U:C6	2.31	0.65
36:DA:1563:G:O2'	36:DA:1564:C:H5'	1.97	0.65
36:DA:2290:G:N2	36:DA:2343:C:H1'	2.11	0.65
41:DF:178:PRO:CB	41:DF:201:VAL:HG11	2.27	0.65
42:DG:51:ARG:HD3	42:DG:53:LEU:HD21	1.77	0.65
43:DH:52:VAL:CB	43:DH:69:ARG:HD3	2.16	0.65
48:DP:23:PRO:HB3	48:DP:29:LYS:HB3	1.78	0.65
53:DU:53:ARG:O	53:DU:56:ASP:HB2	1.96	0.65
1:AA:167:G:O2'	1:AA:168:G:H5'	1.97	0.65
1:AA:491:G:H2'	1:AA:492:G:H8	1.62	0.65
1:AA:1460:A:H2'	1:AA:1461:G:O4'	1.96	0.65
3:AC:70:VAL:HG12	3:AC:71:ALA:H	1.61	0.65
3:AC:70:VAL:HG21	3:AC:76:VAL:HG11	1.77	0.65
5:AE:105:VAL:N	5:AE:106:PRO:HD2	2.10	0.65
7:AG:102:ARG:HG2	7:AG:106:GLN:HE21	1.61	0.65
8:AH:25:ASP:O	8:AH:26:VAL:HB	1.97	0.65
10:AJ:49:VAL:HG23	14:AN:41:ARG:HB2	1.79	0.65
12:AL:17:LYS:NZ	12:AL:18:VAL:HG22	2.12	0.65
19:AS:40:ILE:HG21	19:AS:67:VAL:HA	1.79	0.65
20:AT:10:LEU:HD12	20:AT:11:SER:N	2.12	0.65
28:B2:38:GLN:CB	28:B2:44:LEU:HD22	2.27	0.65
36:BA:302:C:H42	36:BA:315:G:H1	1.45	0.65
36:BA:963:U:H2'	36:BA:964:C:C6	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1326:U:H2'	36:BA:1327:C:H6	1.61	0.65
36:BA:1409:C:H2'	36:BA:1410:G:H8	1.62	0.65
36:BA:2619:C:O2'	36:BA:2620:C:H5'	1.96	0.65
36:BA:2875:C:H4'	52:BT:5:ALA:CB	2.26	0.65
46:BN:62:VAL:CG2	46:BN:66:LYS:HD2	2.25	0.65
49:BQ:79:LEU:HD23	49:BQ:80:GLU:N	2.12	0.65
53:BU:20:LEU:H	53:BU:20:LEU:HD22	1.62	0.65
1:CA:939:G:H2'	1:CA:940:C:C5	2.31	0.65
1:CA:943:U:H2'	1:CA:944:G:H5'	1.79	0.65
3:CC:157:ILE:CD1	3:CC:166:GLU:HB2	2.27	0.65
4:CD:20:TYR:HA	4:CD:26:CYS:SG	2.37	0.65
9:CI:7:THR:O	9:CI:80:GLY:HA2	1.95	0.65
25:CZ:226:GLU:HG3	25:CZ:240:GLY:HA2	1.78	0.65
31:D5:43:HIS:HE1	36:DA:2816:C:H1'	1.61	0.65
36:DA:534:U:O2'	53:DU:49:HIS:CD2	2.50	0.65
36:DA:598:G:H5'	48:DP:15:ARG:CD	2.23	0.65
36:DA:907:U:H4'	49:DQ:101:ARG:HH12	1.62	0.65
36:DA:1208:C:H2'	36:DA:1209:G:C8	2.31	0.65
36:DA:2134:A:N6	36:DA:2157:G:H1'	2.11	0.65
36:DA:2484:G:O2'	36:DA:2485:G:H5'	1.97	0.65
37:DB:24:G:O6	37:DB:56:G:H2'	1.97	0.65
40:DE:9:VAL:HG13	40:DE:25:VAL:HB	1.79	0.65
43:DH:52:VAL:HG21	43:DH:69:ARG:CB	2.27	0.65
48:DP:102:ARG:HB2	48:DP:102:ARG:HH21	1.60	0.65
49:DQ:36:ALA:C	49:DQ:37:LEU:HD23	2.18	0.65
53:DU:88:ILE:HB	53:DU:90:VAL:HG23	1.78	0.65
54:DV:62:LEU:HD21	54:DV:95:LEU:HB2	1.79	0.65
1:AA:1155:G:O2'	1:AA:1156:G:H5'	1.97	0.65
1:AA:1348:U:HO2'	1:AA:1349:A:H8	1.40	0.65
3:AC:153:VAL:O	3:AC:154:SER:CB	2.45	0.65
4:AD:70:ILE:HG23	4:AD:74:GLN:HB2	1.79	0.65
6:AF:87:ARG:NH1	6:AF:87:ARG:HG2	2.12	0.65
9:AI:89:ASN:HB3	9:AI:92:TYR:CD1	2.31	0.65
9:AI:112:LYS:HD3	9:AI:112:LYS:C	2.18	0.65
13:AM:13:LYS:O	13:AM:45:VAL:HG23	1.97	0.65
13:AM:91:ARG:NH1	13:AM:96:LEU:HD13	2.12	0.65
16:AP:8:ARG:HH22	16:AP:15:PRO:HG3	1.61	0.65
22:AV:50:U:H2'	22:AV:51:U:O4'	1.97	0.65
22:AW:24:G:H2'	22:AW:25:C:O4'	1.97	0.65
26:B0:77:ARG:NH2	36:BA:857:C:H5'	2.10	0.65
30:B4:16:CYS:HB2	30:B4:36:CYS:SG	2.36	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B7:18:PHE:CZ	36:BA:117:G:H4'	2.32	0.65
34:B8:10:ALA:HA	34:B8:13:ARG:CG	2.19	0.65
36:BA:8:A:H2'	36:BA:9:U:C5	2.32	0.65
36:BA:76:C:H2'	36:BA:77:C:C6	2.31	0.65
36:BA:272(I):U:H2'	36:BA:272(J):C:H5'	1.78	0.65
36:BA:667:U:H2'	36:BA:668:G:O4'	1.96	0.65
36:BA:686:G:H21	36:BA:788:A:H61	1.45	0.65
36:BA:2053:G:C2	36:BA:2054:A:H1'	2.31	0.65
36:BA:2334:G:H5'	51:BS:13:ARG:HD3	1.78	0.65
39:BD:140:THR:O	39:BD:165:ILE:HG12	1.97	0.65
42:BG:125:PHE:HZ	42:BG:173:LEU:HD12	1.60	0.65
42:BG:130:ASN:OD1	42:BG:163:ALA:HB3	1.97	0.65
46:BN:23:LEU:HD12	46:BN:102:ALA:CB	2.27	0.65
48:BP:84:ASN:C	48:BP:86:LYS:N	2.50	0.65
1:CA:885:G:O2'	1:CA:886:G:H5'	1.96	0.65
2:CB:124:SER:OG	2:CB:125:PRO:HD2	1.97	0.65
3:CC:30:ARG:HD2	14:CN:38:GLY:HA3	1.78	0.65
3:CC:68:VAL:HG12	3:CC:70:VAL:HG23	1.77	0.65
7:CG:22:LEU:O	7:CG:22:LEU:HD23	1.97	0.65
10:CJ:49:VAL:HG23	14:CN:41:ARG:HB2	1.78	0.65
24:CY:28:A:H2'	24:CY:29:C:H6	1.61	0.65
25:CZ:306:LYS:HB3	25:CZ:309:SER:HB2	1.78	0.65
36:DA:428:A:N3	36:DA:428:A:H2'	2.12	0.65
36:DA:481:G:H1'	36:DA:506:G:N2	2.12	0.65
36:DA:612:C:C2'	36:DA:613:G:C5'	2.74	0.65
36:DA:1543:C:C3'	36:DA:1544:A:H5''	2.26	0.65
36:DA:2161:C:H2'	36:DA:2162:G:C8	2.25	0.65
36:DA:2199:A:H3'	36:DA:2200:C:H6	1.62	0.65
36:DA:2833:G:C3'	36:DA:2834:G:C5'	2.71	0.65
37:DB:60:C:H2'	37:DB:61:G:H8	1.62	0.65
41:DF:24:LEU:O	41:DF:26:ALA:N	2.30	0.65
41:DF:43:LYS:HB3	41:DF:98:SER:HB3	1.77	0.65
49:DQ:42:ILE:C	49:DQ:94:VAL:HG12	2.17	0.65
51:DS:11:LYS:HD2	51:DS:11:LYS:N	2.11	0.65
53:DU:6:THR:O	53:DU:9:VAL:HG22	1.96	0.65
56:DX:10:ALA:HB3	56:DX:29:TRP:HD1	1.62	0.65
1:AA:522:C:H2'	1:AA:523:A:H8	1.62	0.64
1:AA:974:A:H2'	1:AA:974:A:N3	2.11	0.64
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.12	0.64
1:AA:1427:U:H2'	1:AA:1428:A:C8	2.32	0.64
4:AD:150:GLU:CD	4:AD:151:LYS:H	2.00	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:84:ASN:N	6:AF:84:ASN:ND2	2.45	0.64
11:AK:124:LYS:HB2	11:AK:124:LYS:NZ	2.11	0.64
20:AT:50:GLU:HA	20:AT:100:ILE:HB	1.79	0.64
26:B0:70:GLN:NE2	26:B0:80:HIS:HE2	1.95	0.64
32:B6:14:THR:CG2	32:B6:50:ARG:HB2	2.26	0.64
34:B8:7:HIS:O	34:B8:11:LYS:HB2	1.97	0.64
36:BA:845:G:OP2	36:BA:845:G:H8	1.79	0.64
36:BA:1208:C:H2'	36:BA:1209:G:C8	2.30	0.64
36:BA:1718:G:H8	36:BA:1718:G:H5'	1.62	0.64
36:BA:2580:U:C5	36:BA:2581:G:C6	2.84	0.64
36:BA:2790:A:H2	36:BA:2791:C:H2'	1.61	0.64
38:BC:43:VAL:HG21	38:BC:175:VAL:HG21	1.78	0.64
42:BG:4:ASP:HA	42:BG:8:LYS:HG2	1.78	0.64
42:BG:27:ASN:ND2	42:BG:29:TRP:HB2	2.12	0.64
48:BP:23:PRO:HD2	48:BP:33:ARG:HH21	1.62	0.64
48:BP:86:LYS:HB3	48:BP:86:LYS:HZ3	1.62	0.64
49:BQ:51:ARG:O	49:BQ:55:VAL:HG12	1.96	0.64
54:BV:62:LEU:HD21	54:BV:95:LEU:HB2	1.79	0.64
1:CA:826:C:H2'	1:CA:827:U:H6	1.61	0.64
3:CC:91:LEU:CD1	3:CC:101:LEU:HD12	2.25	0.64
6:CF:87:ARG:NH1	6:CF:87:ARG:HG2	2.09	0.64
30:D4:10:VAL:HG23	30:D4:11:PRO:CD	2.27	0.64
36:DA:1549:C:C2'	36:DA:1550:C:H5'	2.27	0.64
36:DA:1718:G:H8	36:DA:1718:G:H5'	1.62	0.64
36:DA:1963:U:H4'	36:DA:1964:G:OP1	1.96	0.64
36:DA:2317:C:C2'	36:DA:2318:G:H5'	2.27	0.64
38:DC:76:ALA:HB3	38:DC:94:VAL:HG13	1.79	0.64
39:DD:69:ARG:NH2	39:DD:192:THR:HB	2.12	0.64
39:DD:273:ARG:HH11	39:DD:273:ARG:HG2	1.61	0.64
40:DE:196:VAL:HG23	40:DE:196:VAL:O	1.97	0.64
51:DS:77:ALA:HA	51:DS:80:LEU:HD12	1.78	0.64
1:AA:200:G:H1	1:AA:217:C:H42	1.44	0.64
1:AA:426:G:H2'	1:AA:427:U:C6	2.31	0.64
1:AA:859:A:H2'	1:AA:860:A:O4'	1.96	0.64
1:AA:973:G:H1'	10:AJ:55:LYS:CE	2.27	0.64
1:AA:1074:G:O4'	2:AB:104:ASN:ND2	2.31	0.64
5:AE:45:PHE:CD2	5:AE:47:LYS:HD2	2.32	0.64
16:AP:15:PRO:O	16:AP:16:HIS:ND1	2.29	0.64
23:AX:22:A:H61	24:AY:36:U:H3	1.45	0.64
25:AZ:38:GLU:CD	25:AZ:200:TRP:HH2	2.00	0.64
25:AZ:354:GLN:HE21	25:AZ:371:THR:HB	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:92:A:O2'	36:BA:93:G:H5'	1.97	0.64
36:BA:271(B):C:H42	36:BA:271(W):G:N2	1.94	0.64
36:BA:272(D):G:H2'	36:BA:272(E):G:C8	2.33	0.64
36:BA:628:G:C2'	36:BA:629:G:H5''	2.27	0.64
36:BA:673:C:H6	36:BA:673:C:H5'	1.62	0.64
36:BA:1018:C:H2'	36:BA:1019:U:C6	2.32	0.64
36:BA:2131:G:H4'	36:BA:2132:U:OP2	1.95	0.64
36:BA:2173:A:N3	36:BA:2173:A:H3'	2.11	0.64
36:BA:2814:C:H2'	36:BA:2815:C:C6	2.30	0.64
41:BF:110:LEU:HD13	41:BF:111:ALA:N	2.12	0.64
41:BF:122:LYS:H	41:BF:122:LYS:HE3	1.63	0.64
42:BG:111:LEU:O	42:BG:114:ILE:HG22	1.98	0.64
48:BP:122:PRO:HB3	48:BP:141:ALA:HB1	1.79	0.64
49:BQ:43:THR:C	49:BQ:45:GLN:HE21	2.00	0.64
56:BX:12:VAL:CB	56:BX:17:ALA:HB1	2.17	0.64
58:BZ:17:ALA:HA	58:BZ:20:ARG:HG2	1.79	0.64
1:CA:542:G:OP1	4:CD:10:ARG:NH2	2.30	0.64
1:CA:1237:C:H4'	1:CA:1334:G:N2	2.11	0.64
1:CA:1321:C:C3'	1:CA:1322:C:H5''	2.27	0.64
1:CA:1470:G:H8	1:CA:1470:G:O5'	1.81	0.64
5:CE:99:GLY:HA2	5:CE:116:THR:O	1.97	0.64
7:CG:125:MET:O	7:CG:128:ALA:HB3	1.97	0.64
10:CJ:90:LEU:H	10:CJ:91:PRO:HD3	1.62	0.64
13:CM:34:LEU:HD22	13:CM:39:ILE:O	1.97	0.64
16:CP:67:THR:N	16:CP:70:ALA:HB3	2.07	0.64
18:CR:44:LEU:HD23	18:CR:48:GLY:O	1.97	0.64
27:D1:90:ILE:O	27:D1:94:LEU:CD1	2.45	0.64
30:D4:9:LEU:HD13	30:D4:10:VAL:H	1.62	0.64
36:DA:729:G:C5	39:DD:208:LYS:HB2	2.32	0.64
36:DA:1012:U:C5	46:DN:28:THR:HG21	2.32	0.64
36:DA:1341:U:H4'	56:DX:57:LEU:HB3	1.80	0.64
36:DA:1565:C:H2'	39:DD:21:PHE:CE1	2.33	0.64
36:DA:1568:G:H4'	39:DD:59:LYS:HG2	1.79	0.64
36:DA:1859:A:N6	36:DA:1883:G:O2'	2.30	0.64
36:DA:2230:G:H2'	36:DA:2231:C:H6	1.61	0.64
36:DA:2814:C:H2'	36:DA:2815:C:C6	2.30	0.64
41:DF:84:VAL:O	41:DF:86:GLY:N	2.30	0.64
1:AA:741:G:O2'	1:AA:742:G:H5'	1.97	0.64
1:AA:925:G:H8	1:AA:925:G:O5'	1.79	0.64
1:AA:1320:C:N4	19:AS:36:ARG:HG3	2.12	0.64
1:AA:1525:G:H2'	1:AA:1526:G:C8	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:48:ALA:CA	14:AN:53:LEU:HD12	2.27	0.64
21:AU:12:LYS:HG3	21:AU:17:THR:O	1.97	0.64
32:B6:7:ILE:O	32:B6:27:LYS:HD2	1.97	0.64
32:B6:22:ALA:HB2	32:B6:39:TYR:CE2	2.32	0.64
36:BA:142:A:H5''	36:BA:142(A):C:H5	1.61	0.64
36:BA:266:G:C2'	36:BA:267:C:H5''	2.23	0.64
36:BA:657:U:H2'	36:BA:658:C:C6	2.32	0.64
36:BA:1817:G:C2'	36:BA:1818:U:H5'	2.28	0.64
36:BA:2134:A:N6	36:BA:2157:G:H1'	2.11	0.64
37:BB:94:C:O2'	37:BB:95:C:H5'	1.98	0.64
38:BC:134:ARG:O	38:BC:136:LEU:N	2.30	0.64
38:BC:152:ILE:O	38:BC:155:GLU:HG3	1.98	0.64
40:BE:47:VAL:CG2	40:BE:85:ASN:HA	2.26	0.64
41:BF:61:GLY:O	41:BF:62:ARG:C	2.35	0.64
43:BH:68:THR:HA	43:BH:71:LEU:HB2	1.79	0.64
48:BP:102:ARG:HB2	48:BP:102:ARG:HH21	1.61	0.64
48:BP:126:VAL:HG13	48:BP:145:PRO:HB2	1.79	0.64
1:CA:375:U:OP1	16:CP:69:THR:HG21	1.97	0.64
1:CA:522:C:H2'	1:CA:523:A:H8	1.63	0.64
1:CA:1298:C:C4	7:CG:114:ARG:HD2	2.33	0.64
3:CC:70:VAL:HG12	3:CC:71:ALA:H	1.62	0.64
14:CN:42:ILE:HG22	14:CN:43:CYS:N	2.13	0.64
21:CU:12:LYS:HG3	21:CU:17:THR:O	1.97	0.64
25:CZ:356:PRO:HD2	25:CZ:359:VAL:HG21	1.77	0.64
33:D7:11:LYS:HE2	36:DA:686:G:N3	2.12	0.64
36:DA:593:G:O2'	36:DA:594:U:H5'	1.96	0.64
36:DA:956:G:N2	36:DA:959:A:H3'	2.11	0.64
36:DA:1341:U:O2'	36:DA:1342:A:H5'	1.97	0.64
36:DA:1573:G:H2'	36:DA:1574:C:H5'	1.79	0.64
36:DA:2444:G:P	41:DF:68:LYS:HE3	2.38	0.64
37:DB:117:G:H5'	51:DS:55:ALA:HB1	1.77	0.64
46:DN:57:ALA:HB2	46:DN:123:TYR:O	1.97	0.64
1:AA:436:C:H2'	1:AA:437:U:H6	1.63	0.64
1:AA:523:A:N1	12:AL:92:ASP:HB2	2.11	0.64
1:AA:689:C:P	11:AK:46:GLY:HA3	2.36	0.64
1:AA:956:U:O2'	1:AA:957:U:H5'	1.97	0.64
1:AA:1352:C:N4	1:AA:1370:G:H1	1.94	0.64
1:AA:1363(A):A:H4'	1:AA:1364:U:OP1	1.96	0.64
2:AB:194:PRO:HG2	2:AB:195:ASP:H	1.63	0.64
2:AB:229:VAL:CG1	2:AB:230:VAL:H	2.09	0.64
10:AJ:91:PRO:CB	10:AJ:94:VAL:HB	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:310:ILE:HD11	25:AZ:381:GLU:HB3	1.80	0.64
27:B1:45:ASN:HD22	27:B1:45:ASN:C	2.00	0.64
36:BA:30:G:H2'	36:BA:31:C:C6	2.33	0.64
36:BA:473:G:H5''	36:BA:508:G:N2	2.13	0.64
36:BA:1023:U:O2'	36:BA:1122:G:H5''	1.97	0.64
36:BA:2290:G:N2	36:BA:2343:C:H1'	2.12	0.64
36:BA:2821:A:H61	50:BR:4:LEU:HD23	1.62	0.64
36:BA:2854:G:H2'	36:BA:2855:C:H6	1.63	0.64
43:BH:19:VAL:HG12	43:BH:20:ALA:N	2.12	0.64
46:BN:111:PRO:HG3	46:BN:114:ARG:NH2	2.13	0.64
1:CA:1148:U:H4'	9:CI:14:VAL:HG11	1.79	0.64
4:CD:70:ILE:HG23	4:CD:74:GLN:HB2	1.79	0.64
7:CG:102:ARG:HG2	7:CG:106:GLN:NE2	2.12	0.64
8:CH:14:ARG:HB2	8:CH:14:ARG:NH1	2.12	0.64
8:CH:63:LEU:H	8:CH:63:LEU:HD22	1.63	0.64
9:CI:6:GLY:HA3	9:CI:84:ALA:HB2	1.79	0.64
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.27	0.64
13:CM:68:GLY:H	13:CM:71:ARG:HB3	1.61	0.64
19:CS:78:ARG:HB2	19:CS:81:ARG:NH1	2.12	0.64
25:CZ:299:GLU:O	25:CZ:300:ARG:O	2.15	0.64
31:D5:39:MET:O	55:DW:38:TYR:HE2	1.81	0.64
36:DA:18:C:O2'	36:DA:554:U:H5''	1.98	0.64
36:DA:57:C:O2'	36:DA:58:G:H5'	1.96	0.64
36:DA:142:A:H5''	36:DA:142(A):C:H5	1.63	0.64
36:DA:2175:C:H5''	38:DC:220:PRO:HA	1.79	0.64
36:DA:2579:C:O2'	40:DE:131:ALA:CB	2.46	0.64
36:DA:2761:G:H1'	43:DH:143:GLN:OE1	1.97	0.64
37:DB:110:G:O2'	37:DB:111:G:H5'	1.96	0.64
45:DK:86:UNK:O	45:DK:87:UNK:CB	2.46	0.64
46:DN:35:ARG:HH21	46:DN:42:TRP:HH2	1.46	0.64
48:DP:10:PRO:O	48:DP:11:GLY:O	2.16	0.64
50:DR:57:ARG:O	50:DR:59:ASP:N	2.30	0.64
51:DS:42:ASP:C	51:DS:44:LYS:H	2.01	0.64
52:DT:77:PRO:O	52:DT:78:LEU:HB2	1.95	0.64
53:DU:92:ARG:HH22	54:DV:10:LYS:CB	2.10	0.64
1:AA:16:A:O2'	1:AA:17:U:H5'	1.98	0.64
1:AA:1142:G:C2'	1:AA:1143:G:H5'	2.27	0.64
2:AB:107:THR:HA	2:AB:110:GLN:HE21	1.63	0.64
3:AC:181:ASN:HD21	3:AC:204:LEU:HB2	1.62	0.64
9:AI:45:ALA:O	9:AI:47:LEU:N	2.29	0.64
13:AM:15:VAL:HG23	13:AM:16:ASP:N	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B6:36:LEU:HD23	32:B6:36:LEU:C	2.18	0.64
36:BA:83:G:N2	36:BA:102:G:H2'	2.12	0.64
36:BA:252:G:H2'	36:BA:253:C:C6	2.32	0.64
36:BA:479:A:HO2'	36:BA:481:G:H8	1.45	0.64
36:BA:1416:G:H1'	36:BA:1417:C:C5	2.32	0.64
36:BA:2785:C:H2'	36:BA:2786:U:C6	2.31	0.64
42:BG:137:GLU:O	42:BG:154:GLY:HA2	1.98	0.64
48:BP:7:ARG:HB3	48:BP:8:PRO:CD	2.28	0.64
56:BX:49:VAL:HB	56:BX:87:GLN:NE2	2.13	0.64
1:CA:38:G:H22	1:CA:397:A:H5''	1.63	0.64
1:CA:359:U:H2'	1:CA:360:A:H8	1.62	0.64
1:CA:924:C:H5'	1:CA:1399:C:OP2	1.98	0.64
1:CA:1060:C:H5''	10:CJ:51:ARG:HB3	1.78	0.64
4:CD:85:LYS:HD3	4:CD:92:VAL:HG13	1.78	0.64
9:CI:45:ALA:O	9:CI:47:LEU:N	2.28	0.64
9:CI:108:VAL:HG12	9:CI:109:VAL:H	1.62	0.64
10:CJ:14:LYS:C	10:CJ:16:LEU:H	2.01	0.64
10:CJ:54:PHE:CA	10:CJ:55:LYS:HE3	2.28	0.64
10:CJ:65:LEU:HD13	14:CN:56:VAL:H	1.63	0.64
13:CM:68:GLY:O	13:CM:72:ALA:HB3	1.97	0.64
14:CN:48:ALA:N	14:CN:53:LEU:HD12	2.12	0.64
14:CN:60:SER:O	14:CN:61:TRP:HB3	1.98	0.64
17:CQ:86:GLU:O	17:CQ:90:ILE:HG12	1.98	0.64
22:CW:17:C:H42	36:DA:2180:U:H3	1.45	0.64
31:D5:3:LYS:HD3	36:DA:747:U:OP1	1.97	0.64
36:DA:536:A:H2	36:DA:557:U:H3	1.44	0.64
36:DA:619:G:H3'	36:DA:620:G:N2	2.11	0.64
36:DA:666:G:H2'	36:DA:667:U:C6	2.32	0.64
36:DA:1042:G:C2	36:DA:1043:C:H1'	2.32	0.64
36:DA:1122:G:O2'	36:DA:1123:C:H5'	1.96	0.64
36:DA:1536:C:H2'	36:DA:1537:G:H4'	1.78	0.64
36:DA:1855:G:H2'	36:DA:1856:G:C8	2.32	0.64
36:DA:2023:G:H4'	36:DA:2617:C:O3'	1.97	0.64
37:DB:20:C:H2'	37:DB:21:G:C5'	2.26	0.64
39:DD:76:PRO:HG2	39:DD:98:VAL:CG2	2.28	0.64
40:DE:199:ARG:CG	40:DE:200:GLU:H	2.04	0.64
41:DF:177:ALA:HB1	41:DF:178:PRO:HD2	1.79	0.64
42:DG:27:ASN:ND2	42:DG:29:TRP:HB2	2.12	0.64
42:DG:91:ARG:HG2	42:DG:92:VAL:N	2.13	0.64
43:DH:105:LEU:H	43:DH:105:LEU:HD23	1.61	0.64
46:DN:62:VAL:CG2	46:DN:66:LYS:HD2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:7:ARG:HB3	48:DP:8:PRO:CD	2.27	0.64
49:DQ:43:THR:C	49:DQ:45:GLN:HE21	2.01	0.64
49:DQ:141:GLN:C	58:DZ:53:ILE:HB	2.17	0.64
50:DR:62:ALA:O	50:DR:66:VAL:HG23	1.97	0.64
53:DU:20:LEU:H	53:DU:20:LEU:HD22	1.60	0.64
56:DX:14:SER:OG	56:DX:17:ALA:HB2	1.98	0.64
58:DZ:151:HIS:HA	58:DZ:171:ILE:CD1	2.28	0.64
1:AA:650:G:O2'	1:AA:651:C:H5'	1.97	0.64
1:AA:693:G:O2'	1:AA:694:A:H5'	1.98	0.64
1:AA:824:C:H2'	1:AA:825:G:C8	2.31	0.64
5:AE:135:THR:O	5:AE:138:ALA:HB3	1.96	0.64
6:AF:84:ASN:HD22	6:AF:84:ASN:H	1.44	0.64
10:AJ:47:PHE:HB2	10:AJ:63:PHE:O	1.98	0.64
25:AZ:230:THR:O	25:AZ:231:ILE:HD13	1.98	0.64
25:AZ:389:ARG:NH2	25:AZ:393:ARG:N	2.46	0.64
28:B2:64:LEU:O	28:B2:68:ARG:HB2	1.97	0.64
36:BA:1390:U:H3	36:BA:1395:A:H62	1.44	0.64
36:BA:1640:C:O2'	36:BA:1641:A:H5'	1.97	0.64
36:BA:2114:A:H2'	36:BA:2115:G:H5'	1.77	0.64
36:BA:2331:G:N2	36:BA:2385:C:C4	2.66	0.64
36:BA:2689:U:H4'	36:BA:2690:C:C6	2.33	0.64
36:BA:2715:C:H2'	36:BA:2716:U:H6	1.61	0.64
40:BE:30:PRO:HD3	40:BE:180:ASN:HD21	1.61	0.64
41:BF:137:LYS:HA	41:BF:140:LEU:HB2	1.80	0.64
43:BH:86:GLU:N	43:BH:86:GLU:OE2	2.31	0.64
46:BN:132:ALA:O	46:BN:133:GLN:HB2	1.96	0.64
1:CA:491:G:H2'	1:CA:492:G:H8	1.63	0.64
1:CA:650:G:O2'	1:CA:651:C:H5'	1.96	0.64
1:CA:1045:C:H2'	1:CA:1045:C:O2	1.98	0.64
1:CA:1113:C:H2'	1:CA:1114:C:H6	1.63	0.64
1:CA:1142:G:C2'	1:CA:1143:G:H5'	2.27	0.64
1:CA:1407:C:O2'	36:DA:1912:A:N1	2.26	0.64
4:CD:81:GLU:OE1	4:CD:139:ARG:NH1	2.30	0.64
6:CF:48:LEU:HB2	6:CF:56:PRO:O	1.98	0.64
7:CG:113:GLU:HB2	7:CG:119:ARG:CG	2.28	0.64
10:CJ:25:GLU:O	10:CJ:29:ARG:HB3	1.98	0.64
11:CK:85:ARG:HG2	11:CK:111:ASP:O	1.98	0.64
19:CS:42:PRO:O	19:CS:44:MET:SD	2.55	0.64
25:CZ:255:ILE:HD11	25:CZ:290:LEU:HD22	1.78	0.64
25:CZ:355:LEU:CB	25:CZ:359:VAL:CG2	2.69	0.64
36:DA:83:G:HO2'	36:DA:84:A:H8	1.42	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:185:U:H4'	36:DA:218:A:H4'	1.77	0.64
36:DA:392:C:C2'	36:DA:393:C:H5'	2.28	0.64
36:DA:1028:A:N6	36:DA:1125:G:H2'	2.13	0.64
36:DA:1132:A:C2	46:DN:73:THR:HG21	2.33	0.64
36:DA:1141:U:H2'	46:DN:63:THR:HG22	1.77	0.64
36:DA:1603:A:H5'	36:DA:1603:A:C8	2.30	0.64
36:DA:2444:G:OP1	41:DF:68:LYS:HE3	1.97	0.64
47:DO:88:ASN:HD21	47:DO:92:GLU:HB3	1.62	0.64
52:DT:107:ASP:CG	52:DT:108:ARG:N	2.47	0.64
57:DY:19:LYS:HB2	57:DY:20:TYR:CE1	2.31	0.64
58:DZ:31:ARG:HD2	58:DZ:94:GLU:OE2	1.98	0.64
58:DZ:79:ARG:O	58:DZ:81:ARG:N	2.30	0.64
1:AA:382:A:O2'	1:AA:383:A:H5'	1.97	0.64
1:AA:563:A:N7	1:AA:567:G:H1'	2.12	0.64
1:AA:757:U:H2'	1:AA:758:G:O4'	1.98	0.64
1:AA:973:G:H1'	10:AJ:55:LYS:NZ	2.12	0.64
1:AA:1189:C:H5''	3:AC:5:ILE:CG2	2.15	0.64
1:AA:1472:U:C2'	1:AA:1473:A:H5'	2.28	0.64
2:AB:200:ILE:H	2:AB:200:ILE:CD1	1.99	0.64
3:AC:77:ILE:HA	3:AC:84:ILE:HG22	1.78	0.64
6:AF:10:LEU:HD12	6:AF:10:LEU:N	2.12	0.64
7:AG:70:LYS:C	7:AG:138:LYS:HE3	2.18	0.64
7:AG:113:GLU:HB2	7:AG:119:ARG:CG	2.27	0.64
10:AJ:49:VAL:O	10:AJ:49:VAL:HG13	1.98	0.64
22:AV:41:C:O2	22:AV:41:C:C2'	2.44	0.64
27:B1:8:SER:CB	27:B1:10:LYS:HG3	2.28	0.64
27:B1:70:VAL:HA	27:B1:73:LEU:HD12	1.79	0.64
36:BA:359:A:H2'	36:BA:360:G:O4'	1.98	0.64
36:BA:370:G:H2'	36:BA:423:A:N7	2.13	0.64
36:BA:428:A:N3	36:BA:428:A:H2'	2.13	0.64
36:BA:1169:G:H1	36:BA:1180:C:H42	1.45	0.64
36:BA:1184:G:C2'	36:BA:1185:C:H5'	2.28	0.64
36:BA:1824:G:N3	39:BD:254:THR:OG1	2.31	0.64
36:BA:2152:G:O2'	36:BA:2153:G:H5'	1.98	0.64
36:BA:2485:G:O2'	36:BA:2486:G:H5'	1.98	0.64
36:BA:2721:A:H2'	36:BA:2722:G:C8	2.32	0.64
37:BB:24:G:O6	37:BB:56:G:H2'	1.97	0.64
40:BE:36:ARG:HH22	40:BE:88:GLY:HA2	1.62	0.64
42:BG:29:TRP:HA	42:BG:29:TRP:HE3	1.62	0.64
42:BG:174:GLU:HA	42:BG:180:PHE:HE1	1.62	0.64
46:BN:57:ALA:HB2	46:BN:123:TYR:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:90:GLN:O	52:BT:92:GLY:N	2.31	0.64
54:BV:39:LEU:HA	54:BV:47:VAL:CG1	2.28	0.64
56:BX:10:ALA:HB3	56:BX:29:TRP:HD1	1.63	0.64
57:BY:2:ARG:HD3	57:BY:3:VAL:HG23	1.79	0.64
1:CA:426:G:H4'	4:CD:41:GLY:O	1.98	0.64
1:CA:1318:A:H1'	19:CS:37:ARG:HH21	1.62	0.64
1:CA:1401:G:O5'	1:CA:1401:G:C8	2.50	0.64
1:CA:1441:G:H4'	1:CA:1442:G:C4	2.32	0.64
3:CC:50:ALA:O	3:CC:71:ALA:HB3	1.98	0.64
11:CK:110:ASP:HB3	18:CR:85:LEU:HD23	1.79	0.64
20:CT:33:ILE:HG12	20:CT:62:LEU:HD22	1.79	0.64
20:CT:38:LYS:O	20:CT:42:GLN:HB2	1.98	0.64
26:D0:49:LYS:O	26:D0:51:VAL:HG23	1.98	0.64
33:D7:15:THR:HG22	33:D7:16:HIS:CD2	2.32	0.64
34:D8:13:ARG:NH2	36:DA:250:G:OP2	2.30	0.64
36:DA:1177:A:H5'	36:DA:1178:C:C5	2.32	0.64
36:DA:1374:G:H2'	36:DA:1375:C:H6	1.62	0.64
36:DA:1416:G:H1'	36:DA:1417:C:C5	2.32	0.64
36:DA:1809:A:H2'	36:DA:1810:A:C8	2.32	0.64
36:DA:2790:A:H2	36:DA:2791:C:H2'	1.62	0.64
38:DC:134:ARG:O	38:DC:136:LEU:N	2.30	0.64
40:DE:9:VAL:O	40:DE:9:VAL:HG22	1.97	0.64
42:DG:41:GLN:HB3	42:DG:43:LEU:HD21	1.80	0.64
42:DG:97:ASP:N	42:DG:100:TRP:HD1	1.96	0.64
46:DN:23:LEU:HD12	46:DN:102:ALA:CB	2.27	0.64
46:DN:46:VAL:CG1	46:DN:48:MET:HG3	2.28	0.64
48:DP:39:LYS:CE	48:DP:42:SER:HB3	2.23	0.64
52:DT:19:LEU:HD13	52:DT:78:LEU:CD2	2.28	0.64
52:DT:94:ALA:C	52:DT:96:ARG:H	2.01	0.64
1:AA:1226:C:C4	13:AM:104:ARG:HB2	2.33	0.64
1:AA:1347:G:C8	9:AI:107:ARG:HB3	2.33	0.64
6:AF:78:GLU:HA	6:AF:81:ILE:HD11	1.79	0.64
7:AG:102:ARG:HG2	7:AG:106:GLN:NE2	2.12	0.64
8:AH:36:LEU:HD12	8:AH:59:LEU:HD13	1.78	0.64
12:AL:45:PRO:HG3	12:AL:53:ARG:HD3	1.79	0.64
12:AL:55:VAL:CG2	12:AL:67:THR:HG22	2.28	0.64
18:AR:67:ALA:O	18:AR:71:LYS:HG3	1.97	0.64
25:AZ:299:GLU:O	25:AZ:300:ARG:O	2.16	0.64
27:B1:45:ASN:HB2	36:BA:2230:G:H1'	1.80	0.64
28:B2:68:ARG:NH2	28:B2:72:ALA:HB1	2.12	0.64
36:BA:287:C:H2'	36:BA:288:C:H6	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:612:C:O2'	36:BA:613:G:H5''	1.97	0.64
36:BA:631:A:H1'	36:BA:2415:G:O2'	1.98	0.64
36:BA:1341:U:H4'	56:BX:57:LEU:HB3	1.79	0.64
36:BA:2110:G:H22	36:BA:2178:C:N4	1.92	0.64
39:BD:34:VAL:C	39:BD:36:PRO:HD2	2.18	0.64
39:BD:149:PRO:HG3	39:BD:186:HIS:CD2	2.32	0.64
46:BN:126:PRO:O	46:BN:127:ASP:HB2	1.97	0.64
48:BP:134:ALA:HB2	48:BP:137:LYS:HZ2	1.63	0.64
49:BQ:18:LYS:HB3	49:BQ:98:LYS:NZ	2.13	0.64
51:BS:11:LYS:N	51:BS:11:LYS:HD2	2.12	0.64
55:BW:62:HIS:O	55:BW:64:MET:HG3	1.98	0.64
58:BZ:117:LEU:HD11	58:BZ:172:ALA:HB1	1.80	0.64
1:CA:973:G:H1'	10:CJ:55:LYS:CE	2.27	0.64
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.32	0.64
1:CA:1116:C:C3'	1:CA:1117:G:H5''	2.28	0.64
13:CM:40:ASN:HD22	13:CM:43:THR:HG23	1.61	0.64
19:CS:44:MET:O	19:CS:47:HIS:HB2	1.98	0.64
23:CX:20:U:O2'	23:CX:21:C:H5'	1.98	0.64
36:DA:406:G:H2'	36:DA:407:G:C8	2.33	0.64
36:DA:496:G:H1'	55:DW:61:ASN:HD22	1.63	0.64
36:DA:572:A:H5'	54:DV:78:LYS:NZ	2.13	0.64
36:DA:1705:G:O2'	36:DA:1706:U:H5'	1.98	0.64
36:DA:1788:C:O2'	36:DA:1789:A:H5'	1.97	0.64
36:DA:1833:U:O2'	36:DA:1969:A:N1	2.28	0.64
36:DA:2071:A:H2'	36:DA:2072:G:H8	1.62	0.64
36:DA:2485:G:H5''	49:DQ:46:GLN:HE21	1.62	0.64
36:DA:2570:G:H2'	36:DA:2571:C:C6	2.33	0.64
36:DA:2821:A:OP2	40:DE:110:GLY:HA3	1.98	0.64
39:DD:34:VAL:C	39:DD:36:PRO:HD2	2.17	0.64
39:DD:65:ILE:N	39:DD:65:ILE:CD1	2.60	0.64
41:DF:70:THR:HG22	41:DF:72:ARG:HG2	1.80	0.64
41:DF:175:THR:O	41:DF:176:LEU:HD12	1.97	0.64
42:DG:58:GLN:O	42:DG:61:ALA:HB3	1.97	0.64
43:DH:83:TYR:HB3	43:DH:135:GLY:O	1.97	0.64
46:DN:32:THR:HB	46:DN:33:LEU:HD12	1.80	0.64
46:DN:46:VAL:HG13	46:DN:48:MET:HG3	1.80	0.64
46:DN:131:GLN:HE22	46:DN:133:GLN:HA	1.63	0.64
49:DQ:3:MET:HB2	49:DQ:4:PRO:HD2	1.80	0.64
53:DU:90:VAL:O	53:DU:92:ARG:N	2.30	0.64
1:AA:807:A:H2'	1:AA:808:C:C6	2.31	0.64
1:AA:1228:C:H4'	13:AM:116:THR:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1385:G:O2'	1:AA:1386:G:H5'	1.98	0.64
2:AB:212:GLN:HE22	2:AB:216:SER:HB2	1.63	0.64
5:AE:99:GLY:HA2	5:AE:116:THR:O	1.98	0.64
11:AK:85:ARG:HG2	11:AK:111:ASP:O	1.97	0.64
17:AQ:34:LYS:HG2	17:AQ:35:VAL:N	2.12	0.64
25:AZ:26:THR:HG21	62:AZ:501:GDP:C8	2.33	0.64
25:AZ:138:VAL:HG11	25:AZ:172:ARG:HB3	1.79	0.64
29:B3:56:VAL:HG12	29:B3:57:GLU:N	2.12	0.64
34:B8:26:LYS:NZ	36:BA:2361:A:OP2	2.30	0.64
36:BA:435:C:O2'	36:BA:436:C:H5'	1.98	0.64
36:BA:856:C:H2'	36:BA:857:C:C6	2.33	0.64
36:BA:916:G:O2'	36:BA:917:A:H5''	1.98	0.64
36:BA:1132:A:H2'	36:BA:1133:U:H6	1.63	0.64
36:BA:1223:G:N2	36:BA:1225:G:H3'	2.13	0.64
36:BA:2073:C:H4'	39:BD:228:PRO:HB2	1.80	0.64
36:BA:2137:C:N4	36:BA:2154:G:H22	1.96	0.64
36:BA:2179:C:H4'	36:BA:2180:U:O5'	1.96	0.64
36:BA:2189:U:H2'	36:BA:2190:G:H4'	1.79	0.64
36:BA:2291:U:H3	36:BA:2341:G:H1	1.45	0.64
36:BA:2469:A:H1'	36:BA:2482:G:C5	2.32	0.64
37:BB:60:C:H2'	37:BB:61:G:H8	1.63	0.64
39:BD:26:LYS:O	39:BD:27:THR:HB	1.97	0.64
46:BN:75:TYR:HA	46:BN:82:LEU:HA	1.80	0.64
53:BU:9:VAL:O	53:BU:13:LYS:HE2	1.98	0.64
58:BZ:28:MET:O	58:BZ:29:TYR:HB3	1.98	0.64
58:BZ:151:HIS:HA	58:BZ:171:ILE:CD1	2.28	0.64
1:CA:319:G:O2'	1:CA:320:C:H5'	1.96	0.64
1:CA:918:A:H2'	1:CA:919:A:H8	1.62	0.64
1:CA:1157:A:H4'	1:CA:1158:C:O5'	1.98	0.64
9:CI:48:GLU:HB3	9:CI:101:PHE:HE2	1.62	0.64
25:CZ:145:GLU:O	25:CZ:148:ASP:N	2.31	0.64
27:D1:82:LEU:O	27:D1:83:GLU:HG3	1.98	0.64
32:D6:16:CYS:SG	32:D6:48:VAL:CG2	2.85	0.64
34:D8:49:VAL:CG1	34:D8:53:PRO:HD3	2.27	0.64
36:DA:514:A:H2'	36:DA:515:A:C8	2.33	0.64
36:DA:614(A):U:H4'	36:DA:614(B):G:OP1	1.98	0.64
36:DA:1405:U:H2'	36:DA:1406:U:C6	2.33	0.64
36:DA:1409:C:H2'	36:DA:1410:G:H8	1.63	0.64
36:DA:1826:G:H4'	39:DD:242:ARG:HH21	1.62	0.64
36:DA:2114:A:H2'	36:DA:2115:G:H5'	1.78	0.64
36:DA:2854:G:H2'	36:DA:2855:C:H6	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:112:GLN:HB2	39:DD:115:GLN:HE21	1.61	0.64
41:DF:162:LEU:HD12	41:DF:162:LEU:H	1.61	0.64
46:DN:132:ALA:O	46:DN:133:GLN:HB2	1.97	0.64
50:DR:73:VAL:HG12	50:DR:77:ARG:NH1	2.12	0.64
54:DV:39:LEU:HA	54:DV:47:VAL:CG1	2.27	0.64
56:DX:12:VAL:HG12	56:DX:27:THR:O	1.98	0.64
10:AJ:27:ALA:O	10:AJ:31:GLY:N	2.30	0.64
12:AL:89:ARG:HH11	12:AL:91:LYS:HA	1.63	0.64
19:AS:45:VAL:HG12	19:AS:63:THR:O	1.97	0.64
22:AW:7:A:H4'	22:AW:8:U:OP1	1.97	0.64
24:AY:28:A:H2'	24:AY:29:C:H6	1.63	0.64
26:B0:19:LYS:HB3	26:B0:21:LEU:HD21	1.79	0.64
36:BA:271(Z):C:O2	36:BA:272(C):G:H1'	1.98	0.64
36:BA:391:G:C2'	36:BA:392:C:H5'	2.29	0.64
36:BA:821:A:H5''	36:BA:822:U:H6	1.63	0.64
36:BA:1186:G:H2'	36:BA:1187:G:O4'	1.98	0.64
36:BA:1549:C:C2'	36:BA:1550:C:H5'	2.28	0.64
36:BA:2761:G:H1'	43:BH:143:GLN:OE1	1.98	0.64
40:BE:23:VAL:HA	40:BE:184:VAL:O	1.98	0.64
42:BG:55:LYS:O	42:BG:58:GLN:HG3	1.97	0.64
46:BN:6:PRO:O	46:BN:9:VAL:HG23	1.98	0.64
48:BP:16:ARG:HD3	48:BP:18:ARG:H	1.63	0.64
54:BV:36:PRO:HA	54:BV:56:SER:CB	2.27	0.64
58:BZ:133:ILE:N	58:BZ:134:PRO:CD	2.61	0.64
58:BZ:163:LEU:HD11	58:BZ:165:VAL:HG23	1.80	0.64
1:CA:447:G:H2'	1:CA:485:G:H22	1.61	0.64
1:CA:1220:G:H2'	1:CA:1221:G:H8	1.62	0.64
1:CA:1250:A:H2'	1:CA:1251:A:C8	2.33	0.64
1:CA:1352:C:N4	1:CA:1370:G:H1	1.96	0.64
4:CD:31:CYS:C	4:CD:33:MET:N	2.50	0.64
5:CE:150:ARG:HH11	5:CE:150:ARG:HB2	1.61	0.64
6:CF:15:ASP:OD2	6:CF:17:SER:HB2	1.98	0.64
7:CG:58:PRO:HG2	7:CG:59:LEU:H	1.61	0.64
11:CK:124:LYS:HB2	11:CK:124:LYS:NZ	2.13	0.64
12:CL:98:TYR:N	12:CL:98:TYR:CD1	2.66	0.64
25:CZ:182:MET:SD	25:CZ:188:THR:HB	2.38	0.64
26:D0:70:GLN:NE2	26:D0:80:HIS:HE2	1.95	0.64
28:D2:38:GLN:O	28:D2:43:GLN:O	2.15	0.64
29:D3:56:VAL:HG12	29:D3:57:GLU:N	2.12	0.64
36:DA:130:C:O3'	36:DA:1349:A:H1'	1.97	0.64
36:DA:442:G:H21	41:DF:48:THR:HB	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1326:U:H2'	36:DA:1327:C:C6	2.33	0.64
36:DA:1341:U:O2	36:DA:1398:C:H5'	1.97	0.64
36:DA:2183:C:O2'	36:DA:2184:G:H5'	1.96	0.64
36:DA:2620:C:H1'	40:DE:156:MET:HB2	1.80	0.64
40:DE:23:VAL:HG12	40:DE:173:VAL:HG21	1.80	0.64
41:DF:137:LYS:HA	41:DF:140:LEU:HB2	1.79	0.64
43:DH:122:THR:O	43:DH:133:VAL:HG13	1.98	0.64
43:DH:136:ILE:HD12	43:DH:136:ILE:N	2.13	0.64
48:DP:16:ARG:HD3	48:DP:18:ARG:N	2.13	0.64
48:DP:92:GLU:HA	48:DP:123:LEU:HD13	1.81	0.64
50:DR:12:ARG:HB3	50:DR:16:HIS:CD2	2.33	0.64
52:DT:129:ARG:O	52:DT:129:ARG:HG3	1.98	0.64
58:DZ:27:VAL:HG23	58:DZ:35:ARG:O	1.97	0.64
1:AA:405:U:O2	1:AA:498:U:H2'	1.98	0.63
1:AA:454:C:H5''	1:AA:455:C:C5	2.34	0.63
1:AA:675:A:H2'	1:AA:676:A:H8	1.60	0.63
1:AA:863:U:C2'	1:AA:864:A:H5''	2.28	0.63
1:AA:892:A:H2'	1:AA:893:C:H6	1.63	0.63
1:AA:918:A:H2'	1:AA:919:A:C8	2.33	0.63
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.63	0.63
2:AB:124:SER:OG	2:AB:125:PRO:HD2	1.98	0.63
13:AM:3:ARG:HB2	30:B4:34:GLU:HG2	1.79	0.63
13:AM:68:GLY:H	13:AM:71:ARG:HB3	1.62	0.63
28:B2:68:ARG:HH22	28:B2:72:ALA:HB1	1.63	0.63
32:B6:35:GLU:HG2	32:B6:51:GLU:HG3	1.80	0.63
33:B7:26:GLY:O	33:B7:30:VAL:HG23	1.98	0.63
36:BA:639:U:H2'	36:BA:640:C:C6	2.33	0.63
36:BA:1789:A:OP1	39:BD:222:ARG:HG3	1.98	0.63
40:BE:202:LYS:HD2	40:BE:202:LYS:N	2.12	0.63
41:BF:175:THR:O	41:BF:176:LEU:HD12	1.98	0.63
42:BG:9:ARG:C	42:BG:11:TYR:H	1.99	0.63
42:BG:47:LYS:O	42:BG:51:ARG:HB2	1.98	0.63
47:BO:2:ILE:CD1	47:BO:82:ASN:ND2	2.55	0.63
47:BO:64:ARG:NE	52:BT:70:VAL:HG21	2.12	0.63
49:BQ:140:ALA:HB1	58:BZ:99:TYR:HB2	1.79	0.63
53:BU:9:VAL:HG23	53:BU:10:ARG:H	1.63	0.63
53:BU:92:ARG:HH22	54:BV:10:LYS:CB	2.12	0.63
56:BX:12:VAL:CG2	56:BX:13:LEU:N	2.48	0.63
56:BX:20:GLY:O	56:BX:25:LYS:HB2	1.98	0.63
58:BZ:58:VAL:HG13	58:BZ:67:LEU:C	2.18	0.63
1:CA:401:C:H2'	1:CA:402:G:C8	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:585:G:H1	1:CA:756:C:H42	1.45	0.63
13:CM:15:VAL:HG23	13:CM:16:ASP:N	2.13	0.63
13:CM:30:ALA:C	13:CM:32:GLU:H	2.01	0.63
16:CP:28:ARG:HG2	16:CP:29:ASP:OD2	1.98	0.63
27:D1:18:ILE:HG22	27:D1:19:GLN:H	1.63	0.63
30:D4:31:ILE:CG2	30:D4:33:VAL:HG23	2.28	0.63
36:DA:216:A:O2'	36:DA:217:G:H5'	1.98	0.63
36:DA:489:G:H1'	36:DA:1284:A:C5	2.33	0.63
36:DA:549:G:O2'	36:DA:551:G:H5'	1.98	0.63
36:DA:582:G:H1	36:DA:1258:C:N4	1.95	0.63
36:DA:856:C:H2'	36:DA:857:C:C6	2.34	0.63
36:DA:1754:C:H5''	52:DT:113:LYS:NZ	2.13	0.63
36:DA:1999:C:H2'	36:DA:2000:G:C8	2.33	0.63
36:DA:2026:C:H42	36:DA:2037:G:H1	1.47	0.63
36:DA:2715:C:H2'	36:DA:2716:U:C6	2.33	0.63
39:DD:154:LYS:C	39:DD:155:LEU:HD12	2.19	0.63
40:DE:179:GLU:O	40:DE:180:ASN:HB2	1.97	0.63
42:DG:66:GLN:CD	42:DG:94:LEU:HD23	2.18	0.63
43:DH:107:VAL:HG23	43:DH:152:ARG:HD3	1.79	0.63
46:DN:42:TRP:CZ2	46:DN:44:PRO:HA	2.33	0.63
52:DT:111:ARG:HG2	52:DT:111:ARG:HH11	1.63	0.63
54:DV:29:PRO:HA	54:DV:61:VAL:HG23	1.79	0.63
54:DV:95:LEU:HD23	54:DV:95:LEU:C	2.18	0.63
58:DZ:96:VAL:HG22	58:DZ:97:GLU:N	2.12	0.63
1:AA:1152:A:H2'	1:AA:1153:C:H6	1.63	0.63
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.33	0.63
1:AA:1396:A:C2	5:AE:19:MET:HG3	2.32	0.63
1:AA:1422:G:C2	1:AA:1423:G:C5	2.86	0.63
2:AB:130:ARG:CZ	2:AB:134:GLU:HG3	2.28	0.63
3:AC:113:ALA:HB1	3:AC:200:ALA:CB	2.27	0.63
3:AC:122:GLU:O	3:AC:125:GLU:N	2.31	0.63
13:AM:55:ARG:HA	13:AM:58:GLU:HG3	1.79	0.63
36:BA:90:U:O2'	36:BA:92:A:H5''	1.98	0.63
36:BA:242:G:N2	36:BA:254:G:H2'	2.13	0.63
36:BA:786:C:O2'	36:BA:787:U:H5'	1.98	0.63
36:BA:988:A:H8	36:BA:988:A:O5'	1.81	0.63
36:BA:1541:G:H1'	36:BA:1542:A:N9	2.12	0.63
36:BA:2310:A:O2'	36:BA:2311:A:H5''	1.97	0.63
36:BA:2454:G:O2'	36:BA:2455:G:H5'	1.98	0.63
36:BA:2850:A:H2	50:BR:61:HIS:CD2	2.15	0.63
38:BC:58:VAL:HG22	38:BC:201:PRO:CD	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:210:GLY:HA2	39:BD:213:ARG:HB2	1.79	0.63
40:BE:120:TRP:HB3	40:BE:155:LYS:HE3	1.80	0.63
1:CA:54:C:H2'	1:CA:352:C:N4	2.13	0.63
1:CA:361:G:H2'	1:CA:362:G:O4'	1.99	0.63
1:CA:495:A:H61	4:CD:119:GLN:HE22	1.46	0.63
1:CA:640:A:N3	8:CH:115:SER:HB3	2.14	0.63
1:CA:1206:G:O2'	1:CA:1207:G:H5'	1.98	0.63
8:CH:20:TYR:HE2	8:CH:75:ARG:HD2	1.63	0.63
19:CS:51:VAL:HG12	19:CS:52:TYR:N	2.12	0.63
22:CV:50:U:H2'	22:CV:51:U:O4'	1.97	0.63
36:DA:572:A:N6	36:DA:2029:G:H21	1.96	0.63
36:DA:1169:G:H1	36:DA:1180:C:H42	1.46	0.63
36:DA:1775:U:C2'	36:DA:1776:G:H5'	2.28	0.63
36:DA:2361:A:H2'	36:DA:2362:G:H8	1.62	0.63
36:DA:2675:A:H5'	47:DO:31:LYS:NZ	2.13	0.63
41:DF:171:PRO:O	41:DF:173:VAL:N	2.30	0.63
41:DF:184:TYR:CE1	48:DP:7:ARG:NH2	2.66	0.63
42:DG:102:PHE:HA	42:DG:105:LYS:NZ	2.13	0.63
43:DH:67:LEU:HG	43:DH:71:LEU:CD1	2.26	0.63
50:DR:45:ARG:HG3	50:DR:46:GLY:N	2.10	0.63
52:DT:32:TYR:N	52:DT:32:TYR:CD2	2.66	0.63
54:DV:24:LYS:H	54:DV:91:TYR:HA	1.63	0.63
58:DZ:13:GLU:C	58:DZ:14:LYS:HG3	2.18	0.63
1:AA:501:C:O2'	1:AA:502:G:H5'	1.98	0.63
1:AA:1147:C:H2'	9:AI:16:ARG:HD3	1.80	0.63
5:AE:110:LEU:CD2	5:AE:115:VAL:HG21	2.26	0.63
10:AJ:51:ARG:HE	10:AJ:61:GLU:HB2	1.64	0.63
10:AJ:90:LEU:H	10:AJ:91:PRO:HD3	1.64	0.63
18:AR:53:ARG:O	18:AR:55:ARG:N	2.31	0.63
27:B1:43:TYR:HB2	36:BA:2230:G:O3'	1.99	0.63
35:B9:27:CYS:SG	35:B9:28:GLU:N	2.70	0.63
36:BA:729:G:H2'	36:BA:1775:U:O2	1.99	0.63
36:BA:761:A:C8	36:BA:761:A:O5'	2.52	0.63
36:BA:1902:C:O4'	39:BD:244:ARG:HG3	1.99	0.63
36:BA:2092:U:C4'	36:BA:2093:G:H5''	2.27	0.63
36:BA:2111:C:H42	36:BA:2145:C:H2'	1.62	0.63
36:BA:2360:A:O2'	36:BA:2361:A:O4'	2.16	0.63
36:BA:2777:G:C4'	36:BA:2778:A:H5'	2.29	0.63
39:BD:4:LYS:HZ1	39:BD:20:ASP:HA	1.64	0.63
42:BG:60:LEU:HD22	42:BG:63:ILE:CD1	2.28	0.63
46:BN:26:LEU:HG	46:BN:27:ALA:N	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:9:ASN:H	48:BP:10:PRO:CD	2.04	0.63
48:BP:92:GLU:HA	48:BP:123:LEU:HD13	1.80	0.63
52:BT:28:VAL:CG2	52:BT:47:GLY:N	2.60	0.63
57:BY:14:LEU:HD12	57:BY:23:ARG:O	1.98	0.63
58:BZ:51:ALA:HB1	58:BZ:57:ILE:HD11	1.78	0.63
1:CA:250:A:H5''	1:CA:251:G:OP1	1.98	0.63
1:CA:1321:C:C5'	1:CA:1322:C:H5''	2.28	0.63
5:CE:12:LEU:O	5:CE:13:ILE:HG13	1.97	0.63
6:CF:84:ASN:H	6:CF:84:ASN:ND2	1.96	0.63
9:CI:105:ASP:OD1	9:CI:107:ARG:HD3	1.97	0.63
22:CW:7:A:H4'	22:CW:8:U:OP1	1.97	0.63
28:D2:35:LEU:HD13	28:D2:36:ARG:N	2.13	0.63
32:D6:36:LEU:HD23	32:D6:36:LEU:C	2.19	0.63
32:D6:53:LYS:CG	32:D6:54:ILE:N	2.62	0.63
34:D8:7:HIS:O	34:D8:11:LYS:HB2	1.98	0.63
36:DA:298:G:N2	36:DA:339:U:C5	2.65	0.63
36:DA:612:C:H2'	36:DA:613:G:H5''	1.80	0.63
36:DA:1326:U:H2'	36:DA:1327:C:H6	1.64	0.63
36:DA:2248:C:C2'	36:DA:2249:U:H5'	2.29	0.63
39:DD:166:GLN:HB3	39:DD:174:ILE:HB	1.80	0.63
40:DE:47:VAL:CG2	40:DE:85:ASN:HA	2.29	0.63
42:DG:85:GLY:C	42:DG:87:PRO:CD	2.59	0.63
50:DR:83:ILE:HA	50:DR:86:ARG:HD3	1.79	0.63
51:DS:69:VAL:O	51:DS:73:LEU:HB2	1.98	0.63
56:DX:20:GLY:O	56:DX:25:LYS:HB2	1.97	0.63
1:AA:538:G:O2'	1:AA:539:A:H5'	1.98	0.63
5:AE:37:ARG:O	5:AE:38:GLN:HG2	1.98	0.63
5:AE:142:LEU:O	5:AE:143:ARG:HD3	1.99	0.63
7:AG:70:LYS:O	7:AG:138:LYS:HE3	1.99	0.63
8:AH:85:ARG:HG3	8:AH:85:ARG:HH11	1.63	0.63
10:AJ:25:GLU:O	10:AJ:29:ARG:HB3	1.99	0.63
10:AJ:47:PHE:O	10:AJ:62:HIS:HB2	1.98	0.63
20:AT:33:ILE:HG12	20:AT:62:LEU:HD22	1.78	0.63
23:AX:26:A:H2'	23:AX:26:A:N3	2.14	0.63
27:B1:13:ILE:HD11	36:BA:396:G:C5'	2.09	0.63
36:BA:337:C:H3'	36:BA:338:G:H5''	1.81	0.63
36:BA:1024:G:H3'	36:BA:1025:G:C5'	2.22	0.63
36:BA:1367:A:H2'	36:BA:1368:G:H5'	1.78	0.63
36:BA:2476:A:C2'	36:BA:2477:C:H5''	2.29	0.63
38:BC:100:ILE:HG23	38:BC:127:LEU:CG	2.29	0.63
39:BD:73:VAL:HG13	39:BD:120:GLY:HA2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:82:ARG:HG3	40:BE:82:ARG:NH1	2.14	0.63
41:BF:123:LEU:HD12	41:BF:124:LEU:H	1.60	0.63
46:BN:33:LEU:HD12	46:BN:33:LEU:N	2.13	0.63
47:BO:72:PRO:C	47:BO:74:GLY:N	2.51	0.63
57:BY:86:ARG:HB3	57:BY:88:LYS:HZ1	1.61	0.63
58:BZ:24:LEU:HD23	58:BZ:24:LEU:C	2.18	0.63
1:CA:115:G:H1'	1:CA:116:A:N7	2.13	0.63
1:CA:1239:A:H4'	1:CA:1240:U:O5'	1.98	0.63
1:CA:1469:G:C2	1:CA:1470:G:C5	2.87	0.63
2:CB:80:ILE:HD12	2:CB:80:ILE:N	2.12	0.63
2:CB:134:GLU:HA	2:CB:137:ARG:HB2	1.81	0.63
3:CC:101:LEU:HD23	3:CC:102:ASN:N	2.13	0.63
8:CH:109:ILE:CG1	8:CH:110:ALA:N	2.61	0.63
9:CI:43:ALA:O	9:CI:45:ALA:N	2.31	0.63
25:CZ:310:ILE:CD1	25:CZ:381:GLU:HB3	2.29	0.63
28:D2:16:LEU:O	28:D2:17:SER:O	2.15	0.63
28:D2:45:SER:O	28:D2:46:GLN:HG2	1.98	0.63
30:D4:35:VAL:HG12	42:DG:112:PRO:HG3	1.79	0.63
36:DA:479:A:O2'	36:DA:481:G:H5'	1.97	0.63
36:DA:821:A:H5''	36:DA:822:U:C6	2.34	0.63
36:DA:1353:A:H2'	36:DA:1354:A:H8	1.59	0.63
36:DA:1541:G:H1'	36:DA:1542:A:N9	2.13	0.63
36:DA:2537:U:H2'	36:DA:2538:C:H6	1.63	0.63
36:DA:2721:A:H2'	36:DA:2722:G:C8	2.33	0.63
38:DC:152:ILE:O	38:DC:155:GLU:HG3	1.98	0.63
39:DD:95:LEU:HD12	39:DD:95:LEU:H	1.64	0.63
41:DF:154:VAL:HG13	41:DF:191:ARG:O	1.98	0.63
43:DH:153:LYS:HD3	43:DH:153:LYS:N	2.13	0.63
57:DY:84:ARG:NH2	57:DY:97:ARG:HB2	2.13	0.63
58:DZ:102:LEU:HD21	58:DZ:124:ILE:HG12	1.80	0.63
1:AA:539:A:OP2	12:AL:115:LYS:HE3	1.97	0.63
1:AA:1486:G:H2'	1:AA:1487:G:O4'	1.97	0.63
10:AJ:14:LYS:C	10:AJ:16:LEU:H	2.00	0.63
13:AM:93:ARG:HG3	36:BA:888:C:P	2.38	0.63
25:AZ:310:ILE:CD1	25:AZ:381:GLU:HB3	2.29	0.63
29:B3:59:VAL:CG1	29:B3:60:GLU:N	2.60	0.63
36:BA:925:C:C3'	36:BA:926:A:H5''	2.28	0.63
36:BA:1132:A:C2	46:BN:73:THR:HG21	2.33	0.63
40:BE:97:LYS:O	40:BE:100:GLU:HG3	1.97	0.63
41:BF:154:VAL:HG11	41:BF:193:VAL:CG2	2.26	0.63
48:BP:45:LEU:HD22	48:BP:46:LYS:H	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:12:ILE:CB	55:BW:42:ARG:HH12	2.12	0.63
58:BZ:51:ALA:HA	58:BZ:55:HIS:HD2	1.63	0.63
58:BZ:58:VAL:O	58:BZ:59:LEU:HD23	1.99	0.63
58:BZ:99:TYR:HA	58:BZ:124:ILE:O	1.98	0.63
58:BZ:105:VAL:O	58:BZ:141:VAL:HG23	1.98	0.63
1:CA:80:G:C2'	1:CA:81:U:H5'	2.29	0.63
1:CA:506:G:H2'	1:CA:507:C:C6	2.34	0.63
1:CA:971:G:H5''	1:CA:972:C:H5''	1.80	0.63
1:CA:1105:A:O2'	1:CA:1106:G:H5'	1.98	0.63
2:CB:164:VAL:HG12	2:CB:165:VAL:N	2.12	0.63
3:CC:64:VAL:CG1	3:CC:66:VAL:HG23	2.29	0.63
5:CE:76:ILE:HD11	5:CE:78:HIS:O	1.99	0.63
6:CF:2:ARG:CZ	6:CF:69:GLU:HG3	2.29	0.63
11:CK:87:THR:O	11:CK:91:ARG:HG3	1.99	0.63
24:CY:56:C:C1'	36:DA:1067:A:H1'	2.29	0.63
36:DA:359:A:H2'	36:DA:360:G:O4'	1.99	0.63
36:DA:803:U:C2'	36:DA:804:A:H5'	2.29	0.63
36:DA:2096:U:O2'	36:DA:2097:C:H5'	1.99	0.63
36:DA:2454:G:O2'	36:DA:2455:G:H5'	1.98	0.63
36:DA:2455:G:O2'	36:DA:2456:C:H5'	1.99	0.63
39:DD:4:LYS:HZ1	39:DD:20:ASP:HA	1.64	0.63
39:DD:81:ALA:HA	39:DD:113:VAL:HG22	1.81	0.63
39:DD:130:ALA:HB2	39:DD:192:THR:HB	1.80	0.63
40:DE:78:LEU:O	40:DE:79:ARG:HD2	1.99	0.63
40:DE:116:VAL:O	40:DE:117:MET:HB2	1.99	0.63
41:DF:34:TRP:HB2	48:DP:10:PRO:HB2	1.81	0.63
41:DF:124:LEU:HD12	41:DF:125:LEU:H	1.63	0.63
42:DG:119:GLY:O	42:DG:181:ARG:HB2	1.98	0.63
49:DQ:67:ARG:HD2	49:DQ:105:GLU:OE1	1.98	0.63
50:DR:52:ILE:CD1	50:DR:79:LEU:HD21	2.28	0.63
52:DT:90:GLN:O	52:DT:92:GLY:N	2.32	0.63
54:DV:3:ALA:HB3	54:DV:14:VAL:HG23	1.79	0.63
55:DW:62:HIS:O	55:DW:64:MET:HG3	1.98	0.63
58:DZ:153:SER:CB	58:DZ:167:PRO:HB3	2.28	0.63
1:AA:592:G:H2'	1:AA:593:G:H8	1.64	0.63
1:AA:741:G:H2'	1:AA:742:G:C8	2.33	0.63
4:AD:78:LEU:O	4:AD:78:LEU:HD23	1.98	0.63
14:AN:59:ALA:O	14:AN:60:SER:HB2	1.99	0.63
24:AY:13:C:O2'	24:AY:14:A:H5''	1.98	0.63
28:B2:22:GLU:HG2	28:B2:64:LEU:HD11	1.79	0.63
32:B6:16:CYS:SG	32:B6:48:VAL:CG2	2.87	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:407:G:H2'	36:BA:408:G:C8	2.28	0.63
36:BA:489:G:H1'	36:BA:1284:A:C5	2.34	0.63
36:BA:749:C:O2	36:BA:1618:A:H2'	1.98	0.63
36:BA:953:A:H2'	36:BA:954:G:H8	1.62	0.63
36:BA:1215:G:H5''	53:BU:12:ARG:NH2	2.14	0.63
36:BA:1405:U:H2'	36:BA:1406:U:C6	2.33	0.63
36:BA:1551:C:H2'	36:BA:1552:G:H5'	1.80	0.63
36:BA:1859:A:N6	36:BA:1883:G:O2'	2.31	0.63
36:BA:2589:A:H2'	36:BA:2590:A:H8	1.63	0.63
36:BA:2802:G:H3'	36:BA:2803:C:C5'	2.27	0.63
41:BF:127:GLU:HB2	41:BF:196:LEU:HD12	1.79	0.63
43:BH:122:THR:O	43:BH:133:VAL:HG13	1.99	0.63
43:BH:153:LYS:HD3	43:BH:153:LYS:N	2.13	0.63
46:BN:61:ARG:HG3	46:BN:61:ARG:HH11	1.64	0.63
52:BT:52:ILE:HA	52:BT:61:PHE:HA	1.79	0.63
56:BX:65:ARG:HG2	56:BX:65:ARG:HH11	1.63	0.63
57:BY:10:GLY:C	57:BY:27:VAL:HG13	2.19	0.63
1:CA:254:G:O2'	1:CA:255:G:H5'	1.99	0.63
1:CA:449:C:H3'	1:CA:450:G:H8	1.64	0.63
1:CA:972:C:O3'	10:CJ:57:LYS:CG	2.47	0.63
1:CA:1152:A:H2'	1:CA:1153:C:H6	1.64	0.63
1:CA:1494:G:H2'	1:CA:1495:U:C6	2.32	0.63
2:CB:22:LYS:HE2	2:CB:22:LYS:CA	2.28	0.63
2:CB:102:LEU:HB3	2:CB:180:LEU:HD12	1.80	0.63
4:CD:150:GLU:CD	4:CD:151:LYS:H	2.01	0.63
5:CE:64:ARG:O	5:CE:66:MET:N	2.31	0.63
13:CM:116:THR:HG22	13:CM:118:ALA:H	1.64	0.63
20:CT:50:GLU:HA	20:CT:100:ILE:HB	1.80	0.63
22:CW:24:G:H2'	22:CW:25:C:O4'	1.97	0.63
22:CW:55:U:H5	22:CW:58:A:OP2	1.81	0.63
22:CW:64:A:H2'	22:CW:65:G:C8	2.33	0.63
23:CX:23:C:H2'	23:CX:24:C:H6	1.61	0.63
26:D0:77:ARG:NH2	36:DA:857:C:H5'	2.11	0.63
33:D7:38:GLY:O	36:DA:458:G:H3'	1.98	0.63
36:DA:252:G:H2'	36:DA:253:C:C6	2.33	0.63
36:DA:310:A:P	57:DY:18:GLY:HA2	2.38	0.63
36:DA:361:G:H2'	36:DA:362:U:H4'	1.80	0.63
36:DA:654(E):G:O2'	36:DA:654(F):C:H5'	1.99	0.63
36:DA:672:C:H2'	36:DA:673:C:C5'	2.29	0.63
36:DA:673:C:H6	36:DA:673:C:H5'	1.64	0.63
36:DA:761:A:O5'	36:DA:761:A:C8	2.52	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1024:G:H3'	36:DA:1025:G:C5'	2.24	0.63
36:DA:2008:C:O2'	36:DA:2009:G:H5'	1.98	0.63
36:DA:2199:A:H2'	36:DA:2199:A:N3	2.13	0.63
36:DA:2358:G:H21	36:DA:2359:C:H1'	1.63	0.63
42:DG:35:GLU:HG2	42:DG:36:LYS:HE3	1.81	0.63
43:DH:89:ILE:HG13	43:DH:89:ILE:O	1.97	0.63
43:DH:92:ILE:O	43:DH:94:TYR:N	2.31	0.63
46:DN:34:LEU:HD21	46:DN:120:LEU:HD23	1.80	0.63
48:DP:75:ILE:HD12	48:DP:75:ILE:H	1.62	0.63
58:DZ:71:VAL:CG1	58:DZ:74:VAL:HG23	2.29	0.63
1:AA:1000:U:H2'	1:AA:1001:A:H8	1.64	0.63
1:AA:1206:G:O2'	1:AA:1207:G:H5'	1.99	0.63
1:AA:1288:A:H1'	1:AA:1352:C:O2'	1.99	0.63
5:AE:26:PHE:O	5:AE:27:ARG:HB2	1.97	0.63
16:AP:53:VAL:HG23	16:AP:54:GLU:N	2.09	0.63
27:B1:14:VAL:HG13	27:B1:40:ARG:O	1.98	0.63
36:BA:612:C:C2'	36:BA:613:G:C5'	2.76	0.63
36:BA:2305:A:H1'	42:BG:136:ARG:CG	2.29	0.63
36:BA:2352:A:C2'	36:BA:2353:G:H5'	2.28	0.63
36:BA:2687:U:C5	36:BA:2688:U:C5	2.86	0.63
38:BC:40:THR:HG22	38:BC:176:GLY:O	1.98	0.63
40:BE:9:VAL:HG22	40:BE:9:VAL:O	1.97	0.63
40:BE:196:VAL:HG23	40:BE:196:VAL:O	1.98	0.63
41:BF:70:THR:HG22	41:BF:72:ARG:HG2	1.80	0.63
50:BR:63:ARG:HG2	50:BR:80:PHE:CE2	2.32	0.63
1:CA:977:A:H2'	1:CA:977:A:N3	2.14	0.63
1:CA:1031:G:H2'	1:CA:1032:G:O4'	1.99	0.63
2:CB:185:ILE:CG2	2:CB:199:TYR:HB2	2.28	0.63
3:CC:187:ALA:HB3	3:CC:198:VAL:HB	1.81	0.63
8:CH:81:HIS:ND1	8:CH:138:TRP:OXT	2.31	0.63
11:CK:125:PHE:N	11:CK:125:PHE:CD1	2.64	0.63
16:CP:45:THR:HG22	16:CP:47:ASP:HB3	1.80	0.63
28:D2:35:LEU:HD11	28:D2:50:ILE:CG1	2.29	0.63
30:D4:46:GLN:HG3	30:D4:47:GLN:H	1.63	0.63
31:D5:45:VAL:HG13	31:D5:51:TYR:HB2	1.81	0.63
32:D6:10:LEU:HD22	32:D6:10:LEU:N	2.14	0.63
36:DA:988:A:H8	36:DA:988:A:O5'	1.82	0.63
36:DA:1775:U:H2'	36:DA:1776:G:H5'	1.80	0.63
36:DA:2173:A:H3'	36:DA:2173:A:N3	2.12	0.63
36:DA:2179:C:H4'	36:DA:2180:U:O5'	1.97	0.63
36:DA:2652:C:H2'	36:DA:2653:U:C6	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2762:G:H5'	36:DA:2762:G:C8	2.30	0.63
36:DA:2785:C:H2'	36:DA:2786:U:C6	2.34	0.63
36:DA:2802:G:H3'	36:DA:2803:C:C5'	2.26	0.63
43:DH:41:MET:HG3	43:DH:42:ARG:O	1.97	0.63
52:DT:52:ILE:HA	52:DT:61:PHE:HA	1.80	0.63
53:DU:9:VAL:HG23	53:DU:10:ARG:H	1.64	0.63
54:DV:36:PRO:HA	54:DV:56:SER:CB	2.29	0.63
54:DV:39:LEU:HA	54:DV:47:VAL:HG11	1.79	0.63
55:DW:6:ILE:HG22	55:DW:7:ALA:N	2.14	0.63
56:DX:11:PRO:HG2	56:DX:13:LEU:CG	2.29	0.63
56:DX:56:THR:HG22	56:DX:79:ALA:HB2	1.79	0.63
1:AA:38:G:H22	1:AA:397:A:H5''	1.63	0.63
1:AA:977:A:N3	1:AA:977:A:H2'	2.12	0.63
1:AA:1369:C:H2'	1:AA:1370:G:O4'	1.99	0.63
2:AB:204:ASN:HD22	2:AB:204:ASN:C	2.03	0.63
4:AD:79:PHE:HA	4:AD:93:PHE:HD2	1.64	0.63
12:AL:84:LEU:HD23	12:AL:85:ILE:N	2.13	0.63
15:AO:82:ILE:HD13	15:AO:83:GLU:N	2.13	0.63
19:AS:52:TYR:O	19:AS:53:ASN:HB3	1.99	0.63
25:AZ:145:GLU:O	25:AZ:148:ASP:N	2.31	0.63
31:B5:5:PRO:HA	36:BA:2056:G:N2	2.14	0.63
36:BA:445:C:H2'	36:BA:446:G:O4'	1.98	0.63
36:BA:729:G:C5	39:BD:208:LYS:HB2	2.34	0.63
36:BA:944:G:H22	48:BP:38:GLN:NE2	1.97	0.63
36:BA:1448:G:H2'	36:BA:1449:A:C8	2.34	0.63
36:BA:2540:C:O2'	36:BA:2541:A:H5'	1.99	0.63
41:BF:101:LEU:CD1	41:BF:102:PRO:HD2	2.29	0.63
41:BF:184:TYR:CE1	48:BP:7:ARG:NH2	2.67	0.63
43:BH:20:ALA:CB	43:BH:23:ARG:HB2	2.24	0.63
45:BK:86:UNK:O	45:BK:87:UNK:CB	2.46	0.63
49:BQ:36:ALA:C	49:BQ:37:LEU:HD23	2.18	0.63
52:BT:48:ILE:HD12	52:BT:64:ARG:O	1.99	0.63
53:BU:90:VAL:O	53:BU:92:ARG:N	2.32	0.63
56:BX:56:THR:HG22	56:BX:79:ALA:HB1	1.80	0.63
57:BY:73:ARG:HB3	57:BY:80:GLY:HA3	1.81	0.63
58:BZ:53:ILE:HG23	58:BZ:71:VAL:HB	1.80	0.63
1:CA:337:C:H2'	1:CA:338:A:C8	2.29	0.63
1:CA:686:U:H2'	1:CA:687:A:H8	1.63	0.63
1:CA:724:G:O2'	1:CA:725:G:H5'	1.98	0.63
1:CA:757:U:H2'	1:CA:758:G:O4'	1.98	0.63
1:CA:1228:C:H4'	13:CM:116:THR:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:177:THR:HB	3:CC:180:ALA:HB2	1.81	0.63
3:CC:181:ASN:HD21	3:CC:204:LEU:HB2	1.64	0.63
4:CD:23:GLY:HA3	4:CD:112:VAL:HG22	1.79	0.63
7:CG:69:VAL:CG1	7:CG:104:LEU:HD21	2.24	0.63
7:CG:79:ARG:HG3	7:CG:83:ALA:O	1.98	0.63
10:CJ:75:ILE:HG13	10:CJ:76:ASN:H	1.64	0.63
12:CL:89:ARG:HH11	12:CL:91:LYS:HA	1.63	0.63
25:CZ:222:LEU:HD23	25:CZ:244:ARG:NH2	2.14	0.63
32:D6:15:GLU:HB2	32:D6:20:ASN:CB	2.28	0.63
36:DA:435:C:O2'	36:DA:436:C:H5'	1.98	0.63
36:DA:718:A:H2'	36:DA:719:C:H5'	1.79	0.63
36:DA:749:C:O2	36:DA:1618:A:H2'	1.98	0.63
36:DA:878:A:H5'	36:DA:878:A:N3	2.13	0.63
36:DA:1376:C:O2'	36:DA:1377:G:H5'	1.98	0.63
36:DA:1565:C:H2'	39:DD:21:PHE:HE1	1.64	0.63
36:DA:2469:A:H1'	36:DA:2482:G:C5	2.34	0.63
39:DD:26:LYS:O	39:DD:27:THR:HB	1.99	0.63
39:DD:210:GLY:HA2	39:DD:213:ARG:HB2	1.81	0.63
40:DE:57:LYS:HE2	40:DE:59:VAL:HG12	1.81	0.63
41:DF:33:LEU:HD11	41:DF:113:ALA:HB2	1.81	0.63
42:DG:69:ALA:O	42:DG:71:THR:N	2.31	0.63
43:DH:132:ARG:HG3	43:DH:132:ARG:O	1.98	0.63
46:DN:126:PRO:O	46:DN:127:ASP:HB2	1.98	0.63
49:DQ:20:ALA:H	58:DZ:79:ARG:CZ	2.12	0.63
50:DR:13:HIS:HE1	50:DR:15:SER:OG	1.81	0.63
55:DW:12:ILE:HD12	55:DW:42:ARG:HH11	1.63	0.63
1:AA:563:A:N3	1:AA:563:A:H2'	2.13	0.63
1:AA:1249:C:H5''	9:AI:70:LYS:HZ3	1.62	0.63
4:AD:31:CYS:SG	4:AD:31:CYS:O	2.56	0.63
6:AF:99:ALA:O	6:AF:100:ASN:HB2	1.98	0.63
13:AM:40:ASN:HD22	13:AM:43:THR:HG23	1.64	0.63
16:AP:28:ARG:HG2	16:AP:29:ASP:OD2	1.98	0.63
28:B2:35:LEU:HD13	28:B2:36:ARG:N	2.14	0.63
36:BA:141:A:H8	36:BA:1408:C:HO2'	1.47	0.63
36:BA:718:A:H2'	36:BA:719:C:H5'	1.81	0.63
36:BA:966:G:H2'	36:BA:967:C:C6	2.33	0.63
36:BA:1345:C:C2'	36:BA:1346:G:H5'	2.29	0.63
36:BA:1431:U:O2'	36:BA:1432:C:H5'	1.99	0.63
36:BA:1999:C:H2'	36:BA:2000:G:C8	2.34	0.63
36:BA:2403:C:N4	36:BA:2414:G:H1	1.93	0.63
36:BA:2553:G:H2'	36:BA:2554:U:C4'	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2667:C:H2'	36:BA:2668:G:O4'	1.99	0.63
37:BB:8:U:H3	37:BB:113:G:H1	1.46	0.63
37:BB:37:C:O2	51:BS:95:HIS:NE2	2.31	0.63
37:BB:55:U:H2'	37:BB:56:G:H8	1.60	0.63
40:BE:9:VAL:HG13	40:BE:25:VAL:HB	1.79	0.63
41:BF:36:VAL:O	41:BF:39:TRP:HB3	1.99	0.63
41:BF:178:PRO:CB	41:BF:201:VAL:HG11	2.29	0.63
42:BG:58:GLN:HE22	42:BG:62:LEU:HD11	1.62	0.63
45:BK:32:UNK:HA	45:BK:63:UNK:O	1.98	0.63
46:BN:36:GLY:H	46:BN:49:GLY:HA2	1.62	0.63
48:BP:91:PHE:CE2	48:BP:95:VAL:HG12	2.34	0.63
50:BR:10:LEU:HD22	50:BR:17:ARG:NE	2.12	0.63
50:BR:18:LEU:HD13	50:BR:19:ALA:N	2.14	0.63
52:BT:53:ARG:HH11	52:BT:53:ARG:CB	2.11	0.63
54:BV:38:LEU:HD23	54:BV:39:LEU:N	2.14	0.63
56:BX:65:ARG:CG	56:BX:66:LEU:H	2.05	0.63
57:BY:46:LYS:C	57:BY:47:LYS:HG3	2.19	0.63
1:CA:200:G:H2'	1:CA:201:C:C6	2.34	0.63
1:CA:1480:G:C2	1:CA:1481:U:H1'	2.33	0.63
2:CB:7:VAL:CG1	2:CB:11:LEU:HD11	2.29	0.63
3:CC:36:ASP:O	3:CC:40:ARG:HG3	1.98	0.63
7:CG:72:ARG:HG3	7:CG:73:MET:HG3	1.80	0.63
28:D2:35:LEU:CD1	28:D2:50:ILE:HG13	2.28	0.63
32:D6:14:THR:CG2	32:D6:50:ARG:HB2	2.29	0.63
34:D8:4:MET:HE3	34:D8:61:LEU:HD21	1.81	0.63
34:D8:8:LYS:HG2	34:D8:11:LYS:HD3	1.81	0.63
34:D8:8:LYS:HA	34:D8:11:LYS:HB3	1.79	0.63
36:DA:181:A:H2'	36:DA:182:A:O4'	1.98	0.63
36:DA:459:U:H2'	36:DA:460:A:C8	2.21	0.63
36:DA:858:U:O2	36:DA:2268:A:H2'	1.98	0.63
36:DA:1064:C:H42	36:DA:1074:G:H1	1.46	0.63
36:DA:1246:A:C2'	36:DA:1247:A:H5'	2.28	0.63
36:DA:1782:C:O2	36:DA:2609:U:H5''	1.98	0.63
36:DA:2304:G:H22	36:DA:2312:U:H3	1.47	0.63
36:DA:2572:A:C8	40:DE:144:ARG:HD2	2.34	0.63
36:DA:2631:G:H21	40:DE:61:ARG:HH12	1.44	0.63
37:DB:94:C:O2'	37:DB:95:C:H5'	1.98	0.63
41:DF:46:ARG:HG3	41:DF:46:ARG:NH1	2.08	0.63
41:DF:122:LYS:H	41:DF:122:LYS:HE3	1.62	0.63
53:DU:3:ARG:HH11	53:DU:5:LYS:HB3	1.64	0.63
1:AA:619:U:C2	4:AD:135:LEU:HD21	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.33	0.62
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.29	0.62
2:AB:22:LYS:HE2	2:AB:22:LYS:CA	2.28	0.62
2:AB:75:LYS:O	2:AB:77:ALA:N	2.31	0.62
5:AE:33:VAL:HG21	5:AE:109:ILE:CG1	2.23	0.62
5:AE:100:VAL:O	5:AE:101:ILE:HD13	1.99	0.62
20:AT:17:ARG:C	20:AT:19:SER:H	2.02	0.62
25:AZ:182:MET:SD	25:AZ:188:THR:HB	2.38	0.62
25:AZ:264:ARG:CG	25:AZ:264:ARG:NH1	2.49	0.62
27:B1:94:LEU:O	27:B1:95:LEU:C	2.37	0.62
35:B9:1:MET:SD	36:BA:2477:C:H3'	2.40	0.62
36:BA:18:C:O2'	36:BA:554:U:H5''	1.99	0.62
36:BA:410:G:N2	36:BA:2407:G:C5	2.67	0.62
36:BA:520:G:H2'	36:BA:521:G:C8	2.33	0.62
36:BA:747:U:O3'	55:BW:89:ALA:HB2	1.99	0.62
36:BA:1183:G:H2'	36:BA:1184:G:H8	1.62	0.62
36:BA:1341:U:O2	36:BA:1398:C:H5'	1.98	0.62
36:BA:1803:A:O3'	39:BD:259:THR:CG2	2.47	0.62
36:BA:2367:G:O2'	36:BA:2368:C:H5'	1.98	0.62
36:BA:2726:U:O2	36:BA:2726:U:H5'	1.98	0.62
42:BG:52:ILE:HD13	42:BG:52:ILE:N	2.09	0.62
42:BG:63:ILE:HG13	42:BG:64:THR:HG22	1.80	0.62
42:BG:171:ALA:O	42:BG:175:LEU:HG	1.99	0.62
47:BO:64:ARG:O	47:BO:82:ASN:HA	1.99	0.62
52:BT:32:TYR:N	52:BT:32:TYR:CD2	2.67	0.62
55:BW:12:ILE:CD1	55:BW:42:ARG:NH1	2.60	0.62
57:BY:84:ARG:NH2	57:BY:97:ARG:HB2	2.13	0.62
58:BZ:9:TYR:CE2	58:BZ:61:LEU:HD13	2.34	0.62
9:CI:78:LYS:HE3	9:CI:101:PHE:CZ	2.34	0.62
9:CI:82:ALA:O	9:CI:85:LEU:HD12	1.98	0.62
27:D1:62:VAL:CG2	27:D1:67:ILE:HA	2.13	0.62
29:D3:3:ARG:HB2	29:D3:59:VAL:O	1.99	0.62
29:D3:59:VAL:CG1	29:D3:60:GLU:N	2.62	0.62
36:DA:198:C:H5'	36:DA:2244:U:OP1	1.99	0.62
36:DA:271(Z):C:O2	36:DA:272(C):G:H1'	1.98	0.62
36:DA:272(B):G:H2'	36:DA:272(C):G:H8	1.64	0.62
36:DA:565:C:H2'	36:DA:566:U:H6	1.64	0.62
36:DA:874:G:H2'	36:DA:875:G:H8	1.63	0.62
36:DA:1248:G:P	41:DF:92:PRO:HG3	2.39	0.62
36:DA:2306:C:C4'	42:DG:136:ARG:HH22	2.05	0.62
36:DA:2312:U:C2'	36:DA:2313:C:H5''	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2334:G:H5'	51:DS:13:ARG:HD3	1.80	0.62
36:DA:2485:G:O2'	36:DA:2486:G:H5'	1.99	0.62
36:DA:2533:A:C2'	36:DA:2534:A:H5'	2.29	0.62
36:DA:2579:C:O2'	40:DE:131:ALA:HB2	1.99	0.62
38:DC:100:ILE:HG23	38:DC:127:LEU:CD1	2.29	0.62
40:DE:201:THR:C	40:DE:202:LYS:HD2	2.19	0.62
42:DG:32:PRO:HA	42:DG:162:THR:CB	2.29	0.62
50:DR:116:LEU:O	50:DR:117:VAL:HG12	1.99	0.62
51:DS:35:ILE:O	51:DS:35:ILE:HG12	1.99	0.62
51:DS:64:GLU:O	51:DS:67:ARG:HG3	1.99	0.62
51:DS:92:TYR:CG	51:DS:93:LYS:N	2.66	0.62
52:DT:106:SER:O	52:DT:107:ASP:CB	2.47	0.62
54:DV:29:PRO:HA	54:DV:61:VAL:HG21	1.81	0.62
57:DY:14:LEU:HD12	57:DY:23:ARG:O	1.99	0.62
58:DZ:24:LEU:HB3	58:DZ:39:VAL:O	1.99	0.62
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.35	0.62
1:AA:506:G:H2'	1:AA:507:C:C6	2.34	0.62
1:AA:881:G:H2'	1:AA:882:C:O4'	1.99	0.62
1:AA:924:C:H2'	1:AA:925:G:C8	2.33	0.62
1:AA:1158:C:O2'	1:AA:1159:U:H4'	1.99	0.62
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.34	0.62
1:AA:1439:C:H42	1:AA:1463:C:N4	1.97	0.62
1:AA:1464:G:O2'	1:AA:1465:C:H5'	1.98	0.62
2:AB:102:LEU:HB3	2:AB:180:LEU:CD1	2.29	0.62
3:AC:101:LEU:HD23	3:AC:102:ASN:N	2.14	0.62
5:AE:26:PHE:N	5:AE:26:PHE:CD1	2.67	0.62
14:AN:48:ALA:N	14:AN:53:LEU:HD12	2.13	0.62
16:AP:52:ASP:OD1	16:AP:55:ARG:HG3	1.98	0.62
17:AQ:10:VAL:HG21	17:AQ:55:ASP:HB2	1.80	0.62
24:AY:54:5MU:OP2	24:AY:54:5MU:H71	1.99	0.62
26:B0:58:THR:HG22	26:B0:59:LEU:N	2.14	0.62
27:B1:88:LYS:HD3	27:B1:88:LYS:O	1.99	0.62
28:B2:2:LYS:HD2	28:B2:5:GLU:CD	2.19	0.62
28:B2:10:LEU:HD23	28:B2:14:ARG:HG3	1.80	0.62
28:B2:35:LEU:HD21	28:B2:50:ILE:CG1	2.30	0.62
31:B5:3:LYS:HD3	36:BA:747:U:OP1	1.99	0.62
36:BA:637:A:H4'	36:BA:638:G:O5'	1.98	0.62
36:BA:1328:G:C2	36:BA:1647:G:N2	2.67	0.62
36:BA:1409:C:H2'	36:BA:1410:G:C8	2.34	0.62
36:BA:1605:C:C2'	36:BA:1606:G:H5'	2.29	0.62
36:BA:2085:C:O2'	36:BA:2086:U:H5'	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2096:U:O2'	36:BA:2097:C:H5'	1.99	0.62
36:BA:2134:A:H61	36:BA:2157:G:H1'	1.64	0.62
36:BA:2455:G:O2'	36:BA:2456:C:H5'	1.99	0.62
39:BD:24:ILE:HD13	39:BD:25:THR:N	2.13	0.62
40:BE:108:SER:O	40:BE:162:ALA:HA	1.99	0.62
56:BX:10:ALA:HB1	56:BX:11:PRO:HD2	1.81	0.62
1:CA:935:A:H2'	1:CA:936:C:C6	2.33	0.62
1:CA:946:A:H2'	1:CA:947:G:C8	2.34	0.62
1:CA:1217:C:H2'	1:CA:1218:C:C6	2.34	0.62
1:CA:1312:G:H2'	1:CA:1313:U:H6	1.64	0.62
2:CB:107:THR:HA	2:CB:110:GLN:HE21	1.64	0.62
22:CV:63:G:H2'	22:CV:64:A:H8	1.62	0.62
27:D1:5:CYS:SG	27:D1:8:SER:N	2.71	0.62
27:D1:6:GLU:OE1	27:D1:60:PHE:CD1	2.51	0.62
32:D6:53:LYS:CG	32:D6:54:ILE:H	2.11	0.62
34:D8:30:ARG:NH2	36:DA:2419:U:O4	2.32	0.62
35:D9:11:CYS:SG	60:D9:101:ZN:ZN	1.88	0.62
36:DA:391:G:C2'	36:DA:392:C:H5'	2.29	0.62
36:DA:654(J):A:C8	36:DA:654(L):G:H8	2.17	0.62
36:DA:657:U:H2'	36:DA:658:C:C6	2.33	0.62
36:DA:783:A:H8	36:DA:784:A:H4'	1.64	0.62
36:DA:786:C:O2'	36:DA:787:U:H5'	1.99	0.62
36:DA:1924:C:H2'	36:DA:1925:C:H6	1.64	0.62
36:DA:2134:A:H61	36:DA:2157:G:H1'	1.64	0.62
36:DA:2712:U:O2'	36:DA:2712(A):A:H3'	1.99	0.62
48:DP:36:LYS:CD	48:DP:41:ARG:HB3	2.29	0.62
52:DT:28:VAL:CG2	52:DT:47:GLY:N	2.60	0.62
52:DT:67:SER:O	52:DT:68:TYR:HB2	1.98	0.62
52:DT:102:ILE:HG13	52:DT:103:ARG:N	2.12	0.62
57:DY:88:LYS:O	57:DY:89:PHE:HB2	1.99	0.62
1:AA:92:C:H2'	1:AA:93:G:H8	1.63	0.62
1:AA:167:G:H2'	1:AA:168:G:C8	2.35	0.62
1:AA:540:G:H2'	1:AA:541:G:H8	1.64	0.62
1:AA:849:C:H2'	1:AA:850:U:O4'	1.99	0.62
1:AA:1116:C:C3'	1:AA:1117:G:H5''	2.29	0.62
5:AE:136:MET:O	5:AE:138:ALA:N	2.33	0.62
8:AH:94:TYR:N	8:AH:94:TYR:CD1	2.65	0.62
11:AK:111:ASP:HB2	18:AR:84:LYS:HD2	1.81	0.62
13:AM:30:ALA:O	13:AM:32:GLU:N	2.32	0.62
25:AZ:98:GLN:O	25:AZ:98:GLN:HG2	1.98	0.62
33:B7:30:VAL:HG11	36:BA:466:A:H4'	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:8:LYS:HG2	34:B8:11:LYS:CD	2.29	0.62
36:BA:1229:G:H2'	36:BA:1230:C:O4'	1.98	0.62
36:BA:1543:C:C3'	36:BA:1544:A:H5''	2.25	0.62
36:BA:2162:G:O2'	36:BA:2163:C:H5'	1.99	0.62
36:BA:2562:U:H2'	36:BA:2563:U:H5'	1.80	0.62
36:BA:2762:G:H5'	36:BA:2762:G:C8	2.31	0.62
36:BA:2762:G:H2'	36:BA:2763:G:H5'	1.80	0.62
37:BB:82:G:H2'	37:BB:83:G:C8	2.33	0.62
39:BD:45:ASN:CG	39:BD:46:GLN:H	2.02	0.62
39:BD:65:ILE:N	39:BD:65:ILE:CD1	2.58	0.62
40:BE:81:ILE:O	40:BE:81:ILE:HG22	1.99	0.62
40:BE:132:HIS:HA	40:BE:135:HIS:HE1	1.62	0.62
41:BF:33:LEU:HD11	41:BF:113:ALA:HB2	1.80	0.62
41:BF:61:GLY:HA2	41:BF:77:ASP:HB3	1.82	0.62
41:BF:65:TRP:CZ3	41:BF:75:HIS:CD2	2.87	0.62
42:BG:85:GLY:C	42:BG:87:PRO:HD3	2.19	0.62
43:BH:41:MET:HG3	43:BH:42:ARG:O	1.99	0.62
43:BH:92:ILE:O	43:BH:94:TYR:N	2.31	0.62
45:BK:90:UNK:HA	58:BZ:112:ARG:HH22	1.62	0.62
53:BU:20:LEU:H	53:BU:20:LEU:CD2	2.12	0.62
54:BV:39:LEU:HA	54:BV:47:VAL:HG11	1.79	0.62
56:BX:35:THR:HG22	56:BX:37:THR:N	2.09	0.62
56:BX:56:THR:HG22	56:BX:79:ALA:HB2	1.81	0.62
1:CA:598:U:H4'	8:CH:94:TYR:CD2	2.35	0.62
1:CA:928:G:C2'	1:CA:929:G:H5'	2.29	0.62
1:CA:1152:A:OP1	10:CJ:68:HIS:NE2	2.30	0.62
4:CD:109:GLY:HA3	4:CD:165:MET:HE2	1.82	0.62
6:CF:37:VAL:HG12	6:CF:38:GLU:H	1.63	0.62
8:CH:36:LEU:CD1	8:CH:59:LEU:HD13	2.29	0.62
36:DA:21:A:O2'	36:DA:22:C:H5'	1.99	0.62
36:DA:92:A:O2'	36:DA:93:G:H5'	1.98	0.62
36:DA:122:G:H1	36:DA:129:C:N4	1.96	0.62
36:DA:686:G:H21	36:DA:788:A:H61	1.47	0.62
36:DA:769:G:H2'	36:DA:770:G:H8	1.65	0.62
36:DA:1023:U:O2'	36:DA:1122:G:H5''	1.99	0.62
36:DA:1215:G:H5''	53:DU:12:ARG:NH2	2.14	0.62
36:DA:1763:G:N2	36:DA:1765:C:H5''	2.13	0.62
40:DE:51:PHE:O	40:DE:74:PRO:HB3	1.98	0.62
45:DK:90:UNK:HA	58:DZ:112:ARG:HH22	1.63	0.62
50:DR:28:LEU:O	50:DR:30:THR:N	2.32	0.62
53:DU:90:VAL:HG12	53:DU:91:ASP:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DX:48:LYS:O	56:DX:49:VAL:HG13	2.00	0.62
1:AA:585:G:H2'	1:AA:586:C:C6	2.34	0.62
1:AA:923:A:H5''	5:AE:21:ALA:HB2	1.82	0.62
1:AA:952:U:O2'	1:AA:953:G:H5'	1.99	0.62
1:AA:1031:G:H2'	1:AA:1032:G:O4'	1.99	0.62
2:AB:102:LEU:HD23	2:AB:182:ILE:CD1	2.28	0.62
8:AH:63:LEU:H	8:AH:63:LEU:CD2	2.12	0.62
14:AN:29:ARG:HH11	14:AN:29:ARG:CG	2.13	0.62
14:AN:59:ALA:HB1	14:AN:61:TRP:CZ3	2.35	0.62
16:AP:20:VAL:HG21	16:AP:32:TYR:CE2	2.34	0.62
31:B5:45:VAL:HG13	31:B5:51:TYR:HB2	1.81	0.62
36:BA:245:G:N2	36:BA:254:G:H1'	2.14	0.62
36:BA:298:G:N2	36:BA:339:U:C5	2.66	0.62
36:BA:628:G:H2'	36:BA:629:G:C5'	2.29	0.62
36:BA:782:A:H5'	36:BA:783:A:C2	2.34	0.62
36:BA:1064:C:H42	36:BA:1074:G:H1	1.47	0.62
36:BA:1465:G:H5'	36:BA:1528:A:C8	2.35	0.62
36:BA:1659:U:OP2	40:BE:132:HIS:HE1	1.81	0.62
36:BA:2125:G:H5'	38:BC:40:THR:OG1	1.99	0.62
36:BA:2472:G:H2'	36:BA:2475:C:H42	1.63	0.62
36:BA:2485:G:H5''	49:BQ:46:GLN:HE21	1.63	0.62
37:BB:87:G:H8	37:BB:87:G:O5'	1.82	0.62
40:BE:51:PHE:O	40:BE:74:PRO:HB3	1.99	0.62
40:BE:57:LYS:HE2	40:BE:59:VAL:HG12	1.80	0.62
41:BF:65:TRP:CZ3	41:BF:75:HIS:HD2	2.17	0.62
42:BG:125:PHE:CZ	42:BG:131:TYR:HD1	2.16	0.62
50:BR:12:ARG:HB3	50:BR:16:HIS:CD2	2.34	0.62
50:BR:21:TYR:HB3	50:BR:47:PHE:CE2	2.33	0.62
1:CA:106:C:O2'	1:CA:107:G:H5'	1.99	0.62
1:CA:881:G:H2'	1:CA:882:C:O4'	1.99	0.62
1:CA:1298:C:N4	7:CG:114:ARG:HD2	2.13	0.62
2:CB:14:GLY:O	2:CB:15:VAL:HG13	2.00	0.62
5:CE:136:MET:O	5:CE:138:ALA:N	2.32	0.62
17:CQ:66:SER:OG	17:CQ:69:LYS:HB3	1.98	0.62
19:CS:63:THR:HG22	19:CS:66:MET:CG	2.29	0.62
27:D1:6:GLU:OE1	27:D1:60:PHE:HD1	1.82	0.62
28:D2:51:ARG:HB2	28:D2:55:ARG:HH22	1.62	0.62
36:DA:205:G:H1'	36:DA:206:U:H5	1.65	0.62
36:DA:520:G:H2'	36:DA:521:G:C8	2.33	0.62
36:DA:594:U:H2'	36:DA:595:C:H6	1.64	0.62
36:DA:600:G:H2'	36:DA:601:C:C6	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:957:A:N1	36:DA:2458:G:H4'	2.15	0.62
36:DA:1141:U:C5	46:DN:64:GLY:HA3	2.34	0.62
36:DA:1367:A:H2'	36:DA:1368:G:H5'	1.79	0.62
36:DA:1659:U:OP2	40:DE:132:HIS:HE1	1.81	0.62
36:DA:2187:G:C2'	36:DA:2188:C:H5'	2.29	0.62
36:DA:2850:A:H2	50:DR:61:HIS:CD2	2.17	0.62
38:DC:83:ILE:HD11	38:DC:97:GLU:OE2	1.99	0.62
38:DC:120:MET:O	38:DC:123:VAL:HG12	1.99	0.62
39:DD:241:PRO:O	39:DD:243:GLY:N	2.31	0.62
41:DF:80:ALA:HB1	41:DF:81:PRO:HD2	1.81	0.62
41:DF:127:GLU:HB2	41:DF:196:LEU:HD12	1.80	0.62
42:DG:43:LEU:HB3	42:DG:45:GLU:HG2	1.80	0.62
43:DH:41:MET:O	43:DH:42:ARG:HB3	1.99	0.62
46:DN:17:ASP:OD1	46:DN:19:GLU:HG2	1.98	0.62
46:DN:60:ILE:HD13	46:DN:99:LEU:HD23	1.82	0.62
48:DP:79:ARG:O	48:DP:110:TYR:HB3	1.98	0.62
48:DP:134:ALA:HB2	48:DP:137:LYS:NZ	2.14	0.62
48:DP:147:LEU:HG	48:DP:148:LEU:N	2.15	0.62
49:DQ:21:THR:O	49:DQ:22:LYS:HB3	1.99	0.62
51:DS:17:ARG:HA	51:DS:20:ARG:NH1	2.14	0.62
57:DY:73:ARG:HB3	57:DY:80:GLY:HA3	1.80	0.62
1:AA:419:C:C2'	1:AA:420:U:H5'	2.30	0.62
1:AA:1049:U:H2'	14:AN:2:ALA:N	2.14	0.62
8:AH:31:PHE:O	8:AH:34:GLU:HG2	1.99	0.62
8:AH:134:ILE:HG22	8:AH:135:CYS:SG	2.39	0.62
20:AT:10:LEU:HD12	20:AT:11:SER:H	1.64	0.62
30:B4:7:PRO:O	30:B4:8:LYS:HB3	1.99	0.62
31:B5:16:ARG:NH1	31:B5:20:ARG:NH1	2.47	0.62
32:B6:8:LYS:HE3	32:B6:25:LYS:CD	2.30	0.62
34:B8:3:LYS:HD3	36:BA:242:G:C5'	2.29	0.62
36:BA:329:G:N2	57:BY:19:LYS:HE3	2.12	0.62
36:BA:2187:G:C2'	36:BA:2188:C:H5'	2.28	0.62
36:BA:2882:A:H5'	50:BR:96:ARG:HG3	1.80	0.62
38:BC:71:GLN:HE22	38:BC:157:LYS:HD3	1.63	0.62
39:BD:32:SER:O	39:BD:36:PRO:HG3	2.00	0.62
40:BE:142:GLY:C	40:BE:143:ASN:HD22	2.02	0.62
42:BG:27:ASN:O	42:BG:29:TRP:N	2.31	0.62
42:BG:45:GLU:C	42:BG:47:LYS:H	2.02	0.62
46:BN:17:ASP:OD1	46:BN:19:GLU:HG2	2.00	0.62
56:BX:63:LYS:HE2	56:BX:72:LYS:HG2	1.82	0.62
57:BY:43:ASN:O	57:BY:44:ILE:HD12	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:107:THR:CG2	58:BZ:111:VAL:HG21	2.29	0.62
1:CA:92:C:H2'	1:CA:93:G:H8	1.64	0.62
1:CA:775:G:H2'	1:CA:776:G:O4'	1.98	0.62
1:CA:789:U:O2	1:CA:791:G:C8	2.53	0.62
1:CA:909:A:OP1	12:CL:21:LYS:HD3	1.99	0.62
1:CA:1348:U:O2'	1:CA:1349:A:H8	1.81	0.62
1:CA:1432:G:O2'	1:CA:1468:A:N6	2.33	0.62
3:CC:20:SER:HB2	3:CC:40:ARG:HH22	1.64	0.62
10:CJ:47:PHE:HB2	10:CJ:63:PHE:O	2.00	0.62
25:CZ:38:GLU:CD	25:CZ:200:TRP:HH2	2.01	0.62
25:CZ:98:GLN:O	25:CZ:98:GLN:HG2	1.98	0.62
32:D6:8:LYS:HA	32:D6:27:LYS:HD3	1.81	0.62
34:D8:28:GLY:O	34:D8:32:LEU:HD23	2.00	0.62
36:DA:631:A:H1'	36:DA:2415:G:O2'	1.98	0.62
36:DA:639:U:H2'	36:DA:640:C:C6	2.33	0.62
36:DA:729:G:O2'	36:DA:763:G:H4'	1.98	0.62
36:DA:1183:G:H2'	36:DA:1184:G:H8	1.64	0.62
36:DA:1188:U:H4'	54:DV:79:VAL:HG13	1.82	0.62
36:DA:1639:U:O2'	36:DA:2699:C:H4'	1.99	0.62
36:DA:2152:G:O2'	36:DA:2153:G:H5'	1.99	0.62
36:DA:2772:C:H5'	40:DE:168:MET:CE	2.28	0.62
42:DG:2:PRO:O	42:DG:3:LEU:HB2	2.00	0.62
48:DP:16:ARG:HB2	48:DP:16:ARG:NH1	2.15	0.62
49:DQ:43:THR:OG1	49:DQ:45:GLN:HG2	1.99	0.62
51:DS:99:LYS:O	51:DS:100:ALA:C	2.38	0.62
52:DT:70:VAL:HG12	52:DT:71:GLY:N	2.14	0.62
55:DW:36:LEU:H	55:DW:36:LEU:CD2	2.06	0.62
58:DZ:12:GLY:HA2	58:DZ:36:LYS:HZ3	1.63	0.62
58:DZ:81:ARG:HB2	58:DZ:81:ARG:HH11	1.63	0.62
58:DZ:132:ASN:ND2	58:DZ:160:GLY:HA3	2.14	0.62
1:AA:137:C:H2'	1:AA:137:C:O2	1.97	0.62
1:AA:665:A:H2'	1:AA:725:G:N2	2.13	0.62
1:AA:686:U:H2'	1:AA:687:A:H8	1.62	0.62
1:AA:1249:C:H5''	9:AI:70:LYS:HZ1	1.63	0.62
3:AC:20:SER:HB2	3:AC:40:ARG:HH22	1.64	0.62
9:AI:43:ALA:C	9:AI:45:ALA:N	2.53	0.62
9:AI:53:VAL:HG11	9:AI:92:TYR:CE2	2.35	0.62
11:AK:38:ASN:N	11:AK:38:ASN:ND2	2.45	0.62
34:B8:52:LYS:HG2	48:BP:58:THR:HG21	1.78	0.62
36:BA:122:G:H1	36:BA:129:C:N4	1.96	0.62
36:BA:1791:A:O3'	39:BD:206:LEU:HB2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2801(A):A:C4'	36:BA:2802:G:H5'	2.29	0.62
42:BG:58:GLN:O	42:BG:61:ALA:HB3	2.00	0.62
43:BH:41:MET:O	43:BH:42:ARG:HB3	1.99	0.62
46:BN:96:GLU:OE2	46:BN:96:GLU:N	2.33	0.62
48:BP:16:ARG:HB2	48:BP:16:ARG:CZ	2.29	0.62
48:BP:63:PRO:O	48:BP:64:LYS:C	2.38	0.62
48:BP:148:LEU:O	48:BP:149:GLU:HB2	2.00	0.62
50:BR:28:LEU:O	50:BR:30:THR:N	2.33	0.62
53:BU:59:ARG:O	53:BU:62:ILE:N	2.31	0.62
54:BV:29:PRO:HA	54:BV:61:VAL:HG23	1.81	0.62
1:CA:538:G:O2'	1:CA:539:A:H5'	2.00	0.62
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.34	0.62
1:CA:1398:A:H61	5:CE:21:ALA:HA	1.65	0.62
1:CA:1425:U:H2'	1:CA:1426:C:H6	1.63	0.62
3:CC:120:VAL:O	3:CC:124:ILE:HG13	1.99	0.62
5:CE:100:VAL:O	5:CE:101:ILE:HD13	1.99	0.62
8:CH:25:ASP:O	8:CH:26:VAL:HB	1.99	0.62
11:CK:72:ALA:O	11:CK:75:TYR:HB2	1.99	0.62
12:CL:84:LEU:HD23	12:CL:85:ILE:N	2.15	0.62
18:CR:53:ARG:CZ	18:CR:60:ALA:N	2.62	0.62
25:CZ:9:LYS:HD2	25:CZ:74:LYS:O	2.00	0.62
26:D0:25:ARG:NH2	26:D0:35:ASN:HD22	1.97	0.62
34:D8:33:ASN:ND2	36:DA:2419:U:H5''	2.15	0.62
34:D8:62:LEU:HD22	36:DA:242:G:H5'	1.81	0.62
36:DA:18:C:O2'	53:DU:23:GLY:HA2	1.99	0.62
36:DA:1779:U:H5	36:DA:1784:A:N7	1.96	0.62
36:DA:2007:C:H5'	36:DA:2824:C:C1'	2.28	0.62
37:DB:2:C:H2'	37:DB:3:C:H6	1.64	0.62
38:DC:106:GLY:O	38:DC:107:TRP:CB	2.47	0.62
40:DE:29:GLY:HA2	40:DE:180:ASN:ND2	2.15	0.62
46:DN:18:ALA:HB2	46:DN:26:LEU:HD13	1.82	0.62
48:DP:6:LEU:H	48:DP:6:LEU:HD23	1.64	0.62
54:DV:18:LEU:HD23	54:DV:19:LYS:N	2.15	0.62
56:DX:60:ARG:HA	56:DX:75:ASP:CG	2.20	0.62
57:DY:85:VAL:HG12	57:DY:86:ARG:N	2.15	0.62
58:DZ:27:VAL:O	58:DZ:87:ASP:HA	1.99	0.62
1:AA:343:U:O2	1:AA:347:G:N1	2.32	0.62
1:AA:815:A:N6	1:AA:1509:C:H1'	2.14	0.62
1:AA:1348:U:O2'	1:AA:1349:A:H8	1.82	0.62
9:AI:82:ALA:O	9:AI:85:LEU:HD12	1.99	0.62
15:AO:18:PHE:CD1	15:AO:18:PHE:O	2.53	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:51:U:H2'	22:AV:52:G:C8	2.34	0.62
27:B1:34:THR:HG22	27:B1:35:THR:N	2.14	0.62
28:B2:59:ARG:HA	28:B2:62:THR:OG1	2.00	0.62
33:B7:11:LYS:NZ	36:BA:686:G:H5''	2.14	0.62
36:BA:1188:U:H4'	54:BV:79:VAL:HG13	1.82	0.62
36:BA:1202:C:C2'	36:BA:1203:G:H5'	2.28	0.62
36:BA:1664:A:H61	36:BA:1996:C:H42	1.48	0.62
36:BA:2182:G:H2'	36:BA:2183:C:C6	2.35	0.62
36:BA:2677:G:H2'	36:BA:2678:C:H6	1.65	0.62
36:BA:2892:A:C8	36:BA:2893:G:H1'	2.35	0.62
37:BB:115:G:H2'	37:BB:116:G:C8	2.34	0.62
38:BC:76:ALA:HB3	38:BC:94:VAL:HG13	1.82	0.62
39:BD:70:TRP:CZ3	39:BD:150:LYS:HA	2.35	0.62
39:BD:273:ARG:HG2	39:BD:273:ARG:HH11	1.64	0.62
40:BE:201:THR:C	40:BE:202:LYS:HD2	2.20	0.62
41:BF:162:LEU:HD12	41:BF:162:LEU:H	1.64	0.62
53:BU:66:ASN:CG	53:BU:76:TYR:HB2	2.20	0.62
53:BU:66:ASN:HB2	53:BU:76:TYR:HB2	1.82	0.62
54:BV:95:LEU:HD23	54:BV:95:LEU:C	2.19	0.62
55:BW:36:LEU:H	55:BW:36:LEU:CD2	2.06	0.62
57:BY:9:LYS:HE2	57:BY:94:LYS:HE2	1.80	0.62
58:BZ:27:VAL:HA	58:BZ:37:VAL:HG22	1.80	0.62
1:CA:44:G:OP2	16:CP:12:LYS:HE3	2.00	0.62
1:CA:377:G:H1	1:CA:386:C:H42	1.47	0.62
1:CA:781:A:C2'	1:CA:782:A:H5'	2.30	0.62
1:CA:939:G:H2'	1:CA:940:C:C6	2.35	0.62
1:CA:1298:C:P	7:CG:114:ARG:HH22	2.23	0.62
2:CB:154:LEU:O	2:CB:156:LYS:N	2.33	0.62
5:CE:105:VAL:N	5:CE:106:PRO:HD2	2.13	0.62
9:CI:77:ILE:HG23	9:CI:81:ILE:HD11	1.81	0.62
13:CM:63:THR:HG22	13:CM:64:TRP:N	2.12	0.62
17:CQ:8:GLY:HA3	17:CQ:22:LEU:O	1.99	0.62
25:CZ:277:LEU:HD12	25:CZ:280:GLY:N	2.07	0.62
28:D2:54:LYS:NZ	36:DA:60:G:H5''	2.13	0.62
28:D2:64:LEU:O	28:D2:64:LEU:HD23	1.99	0.62
36:DA:55:G:O2'	36:DA:127:A:H2	1.82	0.62
36:DA:444:C:OP2	41:DF:49:ALA:HB2	2.00	0.62
36:DA:621:A:H2'	36:DA:622:G:O4'	2.00	0.62
36:DA:1362:C:C2'	36:DA:1363:C:H5'	2.30	0.62
36:DA:1362:C:O2'	36:DA:1363:C:H5'	1.99	0.62
36:DA:1796:U:H2'	36:DA:1797:C:C6	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2085:C:O2'	36:DA:2086:U:H5'	2.00	0.62
36:DA:2352:A:C2'	36:DA:2353:G:H5'	2.30	0.62
36:DA:2892:A:C8	36:DA:2893:G:H1'	2.35	0.62
37:DB:79:C:O2'	37:DB:80:U:H5'	1.99	0.62
38:DC:98:GLU:C	38:DC:100:ILE:N	2.52	0.62
42:DG:83:ARG:O	42:DG:85:GLY:N	2.32	0.62
42:DG:111:LEU:O	42:DG:114:ILE:HG22	2.00	0.62
46:DN:6:PRO:O	46:DN:9:VAL:HG23	2.00	0.62
48:DP:130:PHE:N	48:DP:130:PHE:CD2	2.67	0.62
52:DT:55:ASN:N	52:DT:59:THR:HG22	2.03	0.62
56:DX:12:VAL:CB	56:DX:17:ALA:HB1	2.17	0.62
57:DY:10:GLY:C	57:DY:27:VAL:HG13	2.19	0.62
57:DY:43:ASN:O	57:DY:44:ILE:HD12	1.98	0.62
57:DY:50:ARG:HG3	57:DY:56:PRO:O	1.99	0.62
1:AA:242:C:H2'	1:AA:243:A:H5'	1.81	0.62
1:AA:275:G:O2'	1:AA:276:G:H5'	1.98	0.62
1:AA:522:C:H2'	1:AA:523:A:C8	2.34	0.62
1:AA:553:A:H2'	1:AA:554:C:C6	2.34	0.62
1:AA:708:C:H2'	1:AA:709:G:H8	1.65	0.62
1:AA:775:G:H2'	1:AA:776:G:O4'	2.00	0.62
1:AA:1152:A:H5''	10:AJ:13:HIS:HB2	1.81	0.62
2:AB:87:ARG:NH2	2:AB:233:SER:N	2.47	0.62
3:AC:120:VAL:HG12	3:AC:121:ALA:N	2.14	0.62
3:AC:142:MET:SD	3:AC:148:GLY:N	2.73	0.62
6:AF:50:TYR:HB2	6:AF:51:PRO:HD2	1.80	0.62
7:AG:31:MET:HG2	7:AG:32:ARG:H	1.63	0.62
7:AG:64:GLN:NE2	7:AG:68:ASN:ND2	2.47	0.62
10:AJ:45:ARG:NE	14:AN:36:PHE:CE2	2.68	0.62
20:AT:67:ALA:HA	20:AT:72:LEU:O	1.99	0.62
26:B0:30:VAL:HA	26:B0:65:GLY:C	2.20	0.62
36:BA:1057:A:H2'	36:BA:1058:G:O4'	2.00	0.62
36:BA:1438:U:H2'	36:BA:1439:A:C8	2.34	0.62
36:BA:1783:A:C2	36:BA:2587:A:C2	2.88	0.62
36:BA:1855:G:H2'	36:BA:1856:G:H8	1.63	0.62
36:BA:2444:G:P	41:BF:68:LYS:HE3	2.40	0.62
36:BA:2833:G:C3'	36:BA:2834:G:C5'	2.70	0.62
42:BG:28:VAL:O	42:BG:28:VAL:HG12	1.99	0.62
43:BH:107:VAL:HG23	43:BH:152:ARG:HD3	1.80	0.62
55:BW:12:ILE:CG1	55:BW:42:ARG:HH12	2.13	0.62
57:BY:61:ILE:O	57:BY:62:GLU:HB2	2.00	0.62
58:BZ:24:LEU:HD23	58:BZ:25:PRO:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:87:ARG:HH21	2:CB:233:SER:HB3	1.64	0.62
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.82	0.62
13:CM:23:TYR:HB3	13:CM:67:GLU:HB3	1.82	0.62
19:CS:9:VAL:O	19:CS:11:VAL:N	2.33	0.62
25:CZ:143:ASP:HB3	25:CZ:146:LEU:HB3	1.82	0.62
25:CZ:263:ARG:HH21	25:CZ:297:GLU:HB3	1.64	0.62
27:D1:26:ARG:HD3	27:D1:27:GLU:OE2	2.00	0.62
33:D7:26:GLY:O	33:D7:30:VAL:HG23	2.00	0.62
34:D8:35:GLN:O	34:D8:36:LYS:HG3	2.00	0.62
36:DA:1186:G:H2'	36:DA:1187:G:O4'	2.00	0.62
36:DA:1244:G:H4'	48:DP:11:GLY:HA2	1.80	0.62
36:DA:1551:C:H2'	36:DA:1552:G:H5'	1.81	0.62
36:DA:1909:C:H42	36:DA:1921:G:H1	1.48	0.62
36:DA:2405:G:H2'	36:DA:2411:A:N6	2.13	0.62
36:DA:2467:C:O2'	36:DA:2468:G:H5'	1.99	0.62
38:DC:186:ALA:O	38:DC:190:ARG:HG3	2.00	0.62
39:DD:164:GLN:OE1	39:DD:176:ARG:NH2	2.33	0.62
39:DD:261:LYS:HZ1	39:DD:263:ARG:HB2	1.65	0.62
47:DO:2:ILE:CD1	47:DO:82:ASN:ND2	2.58	0.62
48:DP:30:THR:HG22	48:DP:31:ALA:N	2.14	0.62
56:DX:35:THR:HG22	56:DX:37:THR:N	2.10	0.62
57:DY:46:LYS:HB2	57:DY:62:GLU:CD	2.20	0.62
57:DY:46:LYS:C	57:DY:47:LYS:HG3	2.20	0.62
58:DZ:146:ILE:HG13	58:DZ:147:GLY:H	1.65	0.62
1:AA:102:G:O2'	1:AA:103:C:H5'	2.00	0.62
1:AA:115:G:H1'	1:AA:116:A:N7	2.15	0.62
1:AA:361:G:O2'	1:AA:362:G:H5'	1.98	0.62
1:AA:775:G:O2'	1:AA:776:G:H5'	1.99	0.62
1:AA:867:G:O2'	1:AA:868:C:H5'	2.00	0.62
3:AC:26:LYS:HZ3	3:AC:27:LYS:HD2	1.65	0.62
4:AD:31:CYS:C	4:AD:33:MET:N	2.53	0.62
7:AG:22:LEU:O	7:AG:22:LEU:HD23	1.98	0.62
9:AI:11:LYS:C	9:AI:13:ALA:H	2.03	0.62
12:AL:17:LYS:HD3	12:AL:18:VAL:HG22	1.82	0.62
12:AL:90:VAL:HG22	12:AL:99:HIS:CE1	2.35	0.62
13:AM:68:GLY:O	13:AM:72:ALA:HB3	2.00	0.62
17:AQ:52:LYS:HD2	17:AQ:52:LYS:H	1.64	0.62
17:AQ:86:GLU:O	17:AQ:90:ILE:HG12	1.99	0.62
27:B1:7:ILE:CG2	27:B1:8:SER:N	2.62	0.62
28:B2:37:PHE:O	28:B2:40:SER:HB2	1.99	0.62
30:B4:8:LYS:O	30:B4:9:LEU:CB	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:328:U:H4'	57:BY:68:HIS:CD2	2.35	0.62
36:BA:1068:G:H1'	36:BA:1069:A:OP1	1.99	0.62
36:BA:1775:U:C2'	36:BA:1776:G:H5'	2.29	0.62
36:BA:1902:C:O2'	39:BD:244:ARG:HB2	2.00	0.62
36:BA:2389:G:H5''	36:BA:2390:U:C5'	2.29	0.62
38:BC:40:THR:HG23	38:BC:177:LYS:CD	2.30	0.62
38:BC:98:GLU:C	38:BC:100:ILE:N	2.53	0.62
38:BC:120:MET:O	38:BC:123:VAL:HG12	1.99	0.62
39:BD:69:ARG:NH2	39:BD:192:THR:HB	2.15	0.62
39:BD:176:ARG:HG2	39:BD:176:ARG:HH11	1.65	0.62
40:BE:126:PRO:O	40:BE:128:SER:N	2.32	0.62
48:BP:66:GLY:O	48:BP:67:MET:CB	2.47	0.62
50:BR:35:THR:HG23	50:BR:112:ALA:O	1.99	0.62
57:BY:88:LYS:O	57:BY:89:PHE:HB2	1.99	0.62
58:BZ:52:SER:O	58:BZ:53:ILE:HG23	1.99	0.62
1:CA:119:A:C4'	1:CA:120:A:O5'	2.45	0.62
1:CA:405:U:O2	1:CA:498:U:H2'	1.99	0.62
1:CA:669:U:H2'	1:CA:670:G:H8	1.65	0.62
1:CA:678:U:H2'	1:CA:679:C:O4'	1.99	0.62
1:CA:741:G:H2'	1:CA:742:G:C8	2.32	0.62
1:CA:920:U:C1'	1:CA:1080:A:C2	2.82	0.62
3:CC:147:LYS:O	3:CC:203:PHE:HD2	1.81	0.62
4:CD:59:ARG:O	4:CD:63:LYS:HB2	2.00	0.62
5:CE:46:GLY:C	5:CE:47:LYS:HD3	2.19	0.62
20:CT:64:ASP:O	20:CT:67:ALA:HB3	1.99	0.62
25:CZ:113:MET:O	25:CZ:116:THR:HB	2.00	0.62
27:D1:19:GLN:HA	27:D1:19:GLN:OE1	1.99	0.62
28:D2:27:GLU:O	28:D2:28:LYS:C	2.37	0.62
35:D9:19:ARG:C	35:D9:21:GLY:H	2.04	0.62
36:DA:83:G:H5''	36:DA:84:A:OP1	2.00	0.62
36:DA:380:U:H2'	36:DA:381:G:C8	2.34	0.62
36:DA:1247:A:OP2	48:DP:18:ARG:NH1	2.33	0.62
36:DA:1519:G:H5'	36:DA:1520:G:OP2	1.99	0.62
36:DA:1570:A:H2'	36:DA:1571:A:C8	2.34	0.62
36:DA:2182:G:H2'	36:DA:2183:C:C6	2.34	0.62
36:DA:2312:U:H2'	36:DA:2313:C:C5'	2.29	0.62
36:DA:2762:G:H2'	36:DA:2763:G:H5'	1.82	0.62
42:DG:96:ARG:O	42:DG:99:MET:N	2.32	0.62
46:DN:26:LEU:HG	46:DN:27:ALA:N	2.15	0.62
48:DP:91:PHE:CE2	48:DP:95:VAL:HG12	2.35	0.62
1:AA:678:U:O2'	1:AA:679:C:H5'	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:767:A:H2'	1:AA:768:A:C8	2.35	0.62
1:AA:1117:G:N2	1:AA:1180:A:H1'	2.15	0.62
1:AA:1128:C:H2'	1:AA:1139:G:O6	1.99	0.62
1:AA:1255:G:H21	1:AA:1258:G:N2	1.97	0.62
2:AB:166:ASP:O	2:AB:169:LYS:HB2	2.00	0.62
3:AC:76:VAL:HG23	3:AC:77:ILE:HG13	1.81	0.62
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.58	0.62
7:AG:138:LYS:O	7:AG:142:GLU:HG3	1.99	0.62
14:AN:42:ILE:HG22	14:AN:43:CYS:N	2.15	0.62
25:AZ:385:ARG:HD3	63:AZ:502:KIR:H452	1.82	0.62
31:B5:40:LYS:HD3	31:B5:44:THR:HB	1.80	0.62
36:BA:34:C:H41	36:BA:447:A:N6	1.98	0.62
36:BA:523:C:H2'	36:BA:524:U:C5'	2.26	0.62
36:BA:547:A:H2'	36:BA:548:A:C8	2.34	0.62
36:BA:869:G:O2'	36:BA:870:A:H5'	2.00	0.62
36:BA:1093:G:H4'	43:BH:170:ARG:HH12	1.63	0.62
36:BA:1169:G:H1	36:BA:1180:C:N4	1.98	0.62
36:BA:2024:G:H2'	36:BA:2025:C:O4'	2.00	0.62
36:BA:2226:C:H2'	36:BA:2227:A:O4'	2.00	0.62
36:BA:2413:G:H2'	36:BA:2414:G:H8	1.65	0.62
36:BA:2605:U:H2'	36:BA:2606:C:C6	2.35	0.62
38:BC:106:GLY:O	38:BC:107:TRP:CB	2.47	0.62
40:BE:47:VAL:HG21	40:BE:86:PRO:CD	2.29	0.62
42:BG:143:GLU:O	42:BG:144:ILE:C	2.39	0.62
43:BH:52:VAL:HG21	43:BH:69:ARG:CB	2.29	0.62
48:BP:24:GLY:CA	48:BP:33:ARG:NH1	2.63	0.62
1:CA:9:G:H1	1:CA:25:C:H42	1.46	0.62
1:CA:1074:G:O4'	2:CB:104:ASN:ND2	2.33	0.62
3:CC:58:GLU:N	3:CC:65:ALA:CB	2.60	0.62
7:CG:80:VAL:HG12	7:CG:81:GLY:N	2.13	0.62
11:CK:110:ASP:CB	18:CR:85:LEU:HD23	2.29	0.62
25:CZ:152:MET:HE2	25:CZ:156:ASP:HB2	1.80	0.62
25:CZ:339:ARG:HE	25:CZ:352:VAL:HG22	1.65	0.62
34:D8:50:LEU:CD1	34:D8:51:ALA:H	2.06	0.62
36:DA:83:G:O2'	36:DA:84:A:C8	2.51	0.62
36:DA:581:C:H2'	36:DA:582:G:H8	1.63	0.62
36:DA:685:A:C2	36:DA:787:U:H1'	2.35	0.62
36:DA:790:C:O2'	36:DA:791:C:OP1	2.17	0.62
36:DA:2113:U:H2'	36:DA:2114:A:H8	1.65	0.62
36:DA:2367:G:O2'	36:DA:2368:C:H5'	1.99	0.62
36:DA:2410:G:H2'	36:DA:2411:A:H8	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:100:ILE:HG23	38:DC:127:LEU:CG	2.29	0.62
40:DE:116:VAL:O	40:DE:117:MET:CB	2.48	0.62
41:DF:102:PRO:O	41:DF:106:ARG:HG3	2.00	0.62
42:DG:12:TYR:HA	42:DG:16:ARG:CG	2.29	0.62
42:DG:39:ILE:HG22	42:DG:157:ILE:HA	1.81	0.62
48:DP:40:SER:O	48:DP:41:ARG:HD2	1.99	0.62
49:DQ:67:ARG:HB2	49:DQ:102:VAL:O	2.00	0.62
58:DZ:31:ARG:HD3	58:DZ:32:HIS:NE2	2.14	0.62
58:DZ:177:PRO:O	58:DZ:178:GLU:OE1	2.18	0.62
1:AA:726:C:H2'	1:AA:727:G:H8	1.65	0.61
1:AA:892:A:H2'	1:AA:893:C:C6	2.35	0.61
1:AA:1318:A:H1'	19:AS:37:ARG:HH21	1.65	0.61
1:AA:1444:C:H2'	1:AA:1445:C:H6	1.62	0.61
2:AB:164:VAL:HG12	2:AB:165:VAL:N	2.14	0.61
3:AC:120:VAL:HG13	3:AC:124:ILE:HD11	1.81	0.61
6:AF:84:ASN:ND2	6:AF:84:ASN:H	1.97	0.61
8:AH:36:LEU:CD1	8:AH:59:LEU:HD13	2.29	0.61
9:AI:99:LEU:C	9:AI:101:PHE:H	2.03	0.61
10:AJ:65:LEU:HD22	14:AN:56:VAL:HG22	1.82	0.61
17:AQ:26:GLN:O	17:AQ:27:PHE:HB3	1.99	0.61
21:AU:10:ARG:O	21:AU:13:ILE:N	2.33	0.61
25:AZ:143:ASP:HB3	25:AZ:146:LEU:HB3	1.80	0.61
27:B1:11:ARG:CB	27:B1:11:ARG:CZ	2.78	0.61
31:B5:39:MET:O	55:BW:38:TYR:HE2	1.83	0.61
36:BA:227:A:H5''	48:BP:76:LYS:CE	2.16	0.61
36:BA:514:A:H2'	36:BA:515:A:C8	2.35	0.61
36:BA:669:G:N2	36:BA:670:A:C2	2.68	0.61
36:BA:1170:G:H22	36:BA:1179:C:N4	1.96	0.61
36:BA:1654:A:C2	40:BE:113:PHE:CD2	2.88	0.61
36:BA:1693:U:H5'	36:BA:1693:U:H6	1.64	0.61
36:BA:1818:U:H2'	39:BD:157:ARG:CG	2.30	0.61
36:BA:2084:C:H2'	36:BA:2085:C:H6	1.64	0.61
36:BA:2159:G:H2'	36:BA:2160:G:H5''	1.81	0.61
36:BA:2653:U:H3'	36:BA:2654:A:C8	2.35	0.61
37:BB:2:C:H2'	37:BB:3:C:H6	1.64	0.61
38:BC:30:LYS:HZ3	38:BC:30:LYS:HA	1.65	0.61
38:BC:151:GLU:HA	38:BC:154:ARG:HD2	1.80	0.61
46:BN:23:LEU:HD12	46:BN:102:ALA:HB2	1.82	0.61
1:CA:137:C:O2	1:CA:137:C:H2'	1.98	0.61
1:CA:737:A:OP1	6:CF:92:LYS:N	2.33	0.61
3:CC:40:ARG:CZ	3:CC:57:ILE:HD12	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:170:VAL:HG12	4:CD:171:GLY:H	1.65	0.61
8:CH:81:HIS:ND1	8:CH:81:HIS:N	2.48	0.61
9:CI:89:ASN:HB3	9:CI:92:TYR:CD1	2.36	0.61
14:CN:59:ALA:O	14:CN:60:SER:HB2	1.99	0.61
26:D0:4:LYS:HD3	36:DA:2252:G:O6	1.99	0.61
31:D5:40:LYS:HE2	31:D5:46:CYS:SG	2.40	0.61
36:DA:472:A:H8	36:DA:472:A:H5'	1.65	0.61
36:DA:973:A:H5'	36:DA:1188:U:H1'	1.81	0.61
36:DA:1458:C:H4'	36:DA:1459:G:C5'	2.30	0.61
36:DA:1651:G:H4'	50:DR:39:PRO:HG2	1.82	0.61
36:DA:2048:G:H1	36:DA:2620:C:N4	1.97	0.61
36:DA:2821:A:H61	50:DR:4:LEU:HD23	1.64	0.61
37:DB:82:G:H2'	37:DB:83:G:C8	2.35	0.61
38:DC:21:THR:HB	38:DC:228:SER:HB2	1.82	0.61
38:DC:98:GLU:O	38:DC:100:ILE:N	2.33	0.61
39:DD:27:THR:OG1	39:DD:83:GLU:HG2	2.00	0.61
40:DE:120:TRP:CG	40:DE:155:LYS:HE3	2.35	0.61
48:DP:55:ARG:O	48:DP:57:THR:N	2.32	0.61
50:DR:35:THR:HG23	50:DR:112:ALA:O	2.00	0.61
52:DT:52:ILE:HG12	52:DT:61:PHE:HB3	1.81	0.61
58:DZ:108:PRO:C	58:DZ:110:GLY:H	2.04	0.61
1:AA:59:A:H1'	1:AA:354:G:C2	2.34	0.61
1:AA:190:U:O2'	1:AA:191:G:H5'	1.99	0.61
1:AA:359:U:H2'	1:AA:360:A:H8	1.65	0.61
1:AA:1005:A:OP2	1:AA:1006:C:N3	2.33	0.61
1:AA:1145:C:H1'	1:AA:1146:A:C8	2.34	0.61
1:AA:1316:G:N2	1:AA:1318:A:H3'	2.15	0.61
2:AB:80:ILE:HD12	2:AB:80:ILE:N	2.10	0.61
2:AB:134:GLU:HA	2:AB:137:ARG:HB2	1.82	0.61
2:AB:200:ILE:HG22	2:AB:202:PRO:HD3	1.81	0.61
6:AF:24:GLU:CG	6:AF:28:ARG:HH12	2.13	0.61
13:AM:86:CYS:O	13:AM:89:GLY:N	2.25	0.61
19:AS:63:THR:HG22	19:AS:66:MET:CG	2.30	0.61
30:B4:31:ILE:CG2	30:B4:33:VAL:HG23	2.29	0.61
34:B8:30:ARG:NH2	36:BA:2419:U:O4	2.33	0.61
36:BA:181:A:H2'	36:BA:182:A:O4'	1.99	0.61
36:BA:1188:U:O2'	36:BA:1189:A:H5'	2.00	0.61
36:BA:1258:C:O2'	36:BA:1259:G:H5'	1.99	0.61
36:BA:1654:A:H2	40:BE:113:PHE:CD2	2.18	0.61
36:BA:1826:G:H4'	39:BD:242:ARG:HE	1.65	0.61
36:BA:1866:C:H2'	36:BA:1876:A:O4'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1882:C:H5'	36:BA:1883:G:OP2	1.99	0.61
36:BA:1902:C:H1'	39:BD:244:ARG:HE	1.64	0.61
36:BA:1907:G:O2'	36:BA:1908:C:H5'	1.99	0.61
36:BA:2007:C:H5'	36:BA:2824:C:C1'	2.30	0.61
36:BA:2537:U:H2'	36:BA:2538:C:H6	1.66	0.61
38:BC:195:ALA:O	38:BC:198:ALA:HB3	2.00	0.61
42:BG:165:THR:OG1	42:BG:168:GLU:HG3	1.99	0.61
47:BO:12:ASP:HA	47:BO:97:ARG:O	2.00	0.61
49:BQ:20:ALA:N	58:BZ:79:ARG:NH2	2.48	0.61
52:BT:98:LYS:CG	52:BT:100:TYR:HE1	2.12	0.61
58:BZ:20:ARG:HB2	58:BZ:20:ARG:NH1	2.15	0.61
1:CA:200:G:H1	1:CA:217:C:H42	1.46	0.61
1:CA:517:G:H5'	1:CA:519:C:O2	2.00	0.61
1:CA:523:A:N1	12:CL:92:ASP:HB2	2.15	0.61
1:CA:1288:A:H1'	1:CA:1352:C:O2'	1.99	0.61
1:CA:1353:G:H2'	1:CA:1354:C:C6	2.34	0.61
3:CC:35:GLU:OE2	3:CC:59:ARG:NH1	2.28	0.61
4:CD:29:PRO:C	4:CD:30:LYS:HG2	2.21	0.61
4:CD:131:ARG:H	4:CD:131:ARG:CD	2.09	0.61
5:CE:26:PHE:CD1	5:CE:26:PHE:N	2.67	0.61
6:CF:24:GLU:CG	6:CF:28:ARG:HH12	2.12	0.61
6:CF:50:TYR:HB2	6:CF:51:PRO:HD2	1.82	0.61
9:CI:11:LYS:C	9:CI:13:ALA:H	2.03	0.61
13:CM:91:ARG:NH1	13:CM:96:LEU:HD13	2.15	0.61
20:CT:45:GLN:HA	20:CT:91:LEU:HB3	1.82	0.61
23:CX:26:A:H2'	23:CX:26:A:N3	2.15	0.61
25:CZ:99:MET:N	25:CZ:241:ARG:NH2	2.48	0.61
36:DA:328:U:H4'	57:DY:68:HIS:CD2	2.36	0.61
36:DA:445:C:H2'	36:DA:446:G:O4'	1.99	0.61
36:DA:959:A:O2'	36:DA:960:A:H5'	2.00	0.61
36:DA:1229:G:H2'	36:DA:1230:C:O4'	1.99	0.61
36:DA:1375:C:O2'	36:DA:1376:C:H5'	2.00	0.61
36:DA:1384:A:N3	36:DA:1405:U:H1'	2.16	0.61
36:DA:1605:C:C2'	36:DA:1606:G:H5'	2.30	0.61
36:DA:2101:G:H2'	36:DA:2102:U:C5'	2.30	0.61
36:DA:2176:A:H4'	38:DC:213:TYR:CD1	2.35	0.61
36:DA:2553:G:H2'	36:DA:2554:U:C4'	2.30	0.61
36:DA:2777:G:C4'	36:DA:2778:A:H5'	2.29	0.61
37:DB:8:U:H3	37:DB:113:G:H1	1.46	0.61
39:DD:81:ALA:HA	39:DD:113:VAL:HG21	1.83	0.61
40:DE:34:VAL:O	40:DE:34:VAL:HG22	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:13:ASN:ND2	47:DO:97:ARG:HB2	2.15	0.61
47:DO:22:ILE:HG12	47:DO:41:ALA:HA	1.82	0.61
49:DQ:74:TYR:HD1	49:DQ:75:THR:N	1.98	0.61
51:DS:29:PHE:HD2	51:DS:30:ARG:N	1.98	0.61
52:DT:16:ARG:HB2	52:DT:19:LEU:HD11	1.82	0.61
1:AA:355:C:H2'	1:AA:356:A:C8	2.30	0.61
1:AA:826:C:H2'	1:AA:827:U:H6	1.64	0.61
1:AA:1045:C:H2'	1:AA:1045:C:O2	1.99	0.61
1:AA:1320:C:H5''	19:AS:70:LYS:CG	2.29	0.61
2:AB:44:LEU:O	2:AB:47:THR:HB	2.00	0.61
3:AC:206:GLU:HG2	3:AC:207:VAL:H	1.66	0.61
12:AL:17:LYS:CD	12:AL:18:VAL:HG22	2.30	0.61
12:AL:25:PRO:C	12:AL:27:LEU:N	2.52	0.61
22:AW:62:C:O2'	38:BC:53:ARG:HG2	2.00	0.61
36:BA:534:U:O2'	53:BU:49:HIS:CD2	2.52	0.61
36:BA:600:G:H2'	36:BA:601:C:C6	2.35	0.61
36:BA:695:G:OP1	36:BA:1380:G:C4'	2.46	0.61
36:BA:955:C:C2'	36:BA:956:G:H5'	2.30	0.61
36:BA:956:G:N2	36:BA:959:A:H3'	2.16	0.61
36:BA:1042:G:C2	36:BA:1043:C:H1'	2.35	0.61
36:BA:1278:A:C2	36:BA:1293:C:N3	2.69	0.61
36:BA:1652:A:C2'	36:BA:1653:G:H5'	2.30	0.61
36:BA:1702:G:H2'	36:BA:1703:G:O4'	2.00	0.61
36:BA:2121:G:H2'	36:BA:2122:U:C6	2.34	0.61
36:BA:2297:C:O2'	36:BA:2298:A:H5'	2.00	0.61
39:BD:241:PRO:O	39:BD:243:GLY:N	2.34	0.61
42:BG:28:VAL:C	42:BG:31:VAL:HG12	2.20	0.61
43:BH:97:ARG:HH21	43:BH:99:VAL:HG21	1.65	0.61
49:BQ:39:PRO:HD3	49:BQ:99:PRO:HG2	1.82	0.61
53:BU:65:ILE:HD11	53:BU:96:ALA:HB3	1.82	0.61
55:BW:14:PRO:HG3	55:BW:78:GLU:HB2	1.80	0.61
55:BW:14:PRO:HG2	55:BW:78:GLU:CD	2.21	0.61
57:BY:9:LYS:CE	57:BY:94:LYS:HE2	2.29	0.61
57:BY:29:GLU:OE1	57:BY:29:GLU:N	2.33	0.61
1:CA:676:A:H5''	11:CK:113:PRO:HB2	1.81	0.61
1:CA:1047:G:O2'	1:CA:1048:G:H5'	2.00	0.61
1:CA:1147:C:H2'	9:CI:16:ARG:HD3	1.80	0.61
1:CA:1170:A:H2'	1:CA:1171:G:H5'	1.80	0.61
2:CB:204:ASN:ND2	2:CB:207:ALA:H	1.99	0.61
4:CD:61:LYS:HE2	4:CD:65:ARG:HE	1.65	0.61
12:CL:92:ASP:C	12:CL:93:LEU:HD23	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:59:ALA:HB1	14:CN:61:TRP:CZ3	2.33	0.61
16:CP:52:ASP:OD1	16:CP:55:ARG:HG3	2.01	0.61
29:D3:26:LEU:HB2	29:D3:28:LEU:HD21	1.82	0.61
34:D8:50:LEU:O	34:D8:53:PRO:HD2	2.00	0.61
35:D9:12:ASP:C	35:D9:14:CYS:H	2.03	0.61
36:DA:39:C:H2'	36:DA:40:C:C6	2.35	0.61
36:DA:226:G:H1	36:DA:418:G:H21	1.46	0.61
36:DA:1652:A:C2'	36:DA:1653:G:H5'	2.30	0.61
36:DA:1817:G:C2'	36:DA:1818:U:H5'	2.30	0.61
36:DA:1826:G:C4'	39:DD:242:ARG:HH21	2.12	0.61
36:DA:2360:A:O2'	36:DA:2361:A:O4'	2.19	0.61
36:DA:2582:G:N3	36:DA:2582:G:H2'	2.15	0.61
37:DB:18:G:H2'	37:DB:19:G:C1'	2.30	0.61
38:DC:71:GLN:HE22	38:DC:157:LYS:HD3	1.63	0.61
39:DD:73:VAL:HG13	39:DD:120:GLY:HA2	1.81	0.61
42:DG:76:SER:HB3	42:DG:83:ARG:HB3	1.83	0.61
42:DG:133:LEU:CD1	42:DG:157:ILE:HB	2.30	0.61
43:DH:68:THR:HG22	43:DH:72:ILE:HG12	1.82	0.61
51:DS:78:LEU:HD11	51:DS:103:GLU:HB2	1.82	0.61
52:DT:53:ARG:HH11	52:DT:53:ARG:CB	2.13	0.61
55:DW:14:PRO:HG3	55:DW:78:GLU:HB2	1.82	0.61
56:DX:65:ARG:HG2	56:DX:65:ARG:HH11	1.65	0.61
57:DY:9:LYS:HE2	57:DY:94:LYS:HE2	1.81	0.61
58:DZ:109:ALA:HB3	58:DZ:144:LEU:O	2.01	0.61
1:AA:189(I):G:H2'	1:AA:189(J):G:C8	2.35	0.61
1:AA:200:G:H2'	1:AA:201:C:C6	2.35	0.61
1:AA:250:A:H5''	1:AA:251:G:OP1	2.01	0.61
1:AA:286:G:O2'	1:AA:287:U:H5'	2.00	0.61
1:AA:332:G:O2'	1:AA:333:G:H5'	2.00	0.61
1:AA:633:G:H5'	1:AA:634:C:OP2	1.99	0.61
1:AA:954:G:H4'	13:AM:120:LYS:CD	2.30	0.61
1:AA:1217:C:H2'	1:AA:1218:C:C6	2.35	0.61
1:AA:1234:C:O2'	1:AA:1235:U:H5'	2.00	0.61
2:AB:222:ILE:O	2:AB:226:ARG:HB2	2.01	0.61
4:AD:85:LYS:HD3	4:AD:92:VAL:HG13	1.81	0.61
9:AI:108:VAL:HG12	9:AI:109:VAL:H	1.65	0.61
22:AV:5:G:H2'	22:AV:6:G:C8	2.35	0.61
27:B1:64:ALA:O	27:B1:67:ILE:HG13	2.01	0.61
28:B2:27:GLU:O	28:B2:30:ARG:N	2.32	0.61
30:B4:10:VAL:HG23	30:B4:11:PRO:CD	2.29	0.61
31:B5:46:CYS:HB2	31:B5:47:PRO:HD2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B6:45:LYS:O	32:B6:46:HIS:HB3	1.99	0.61
36:BA:36:G:H4'	36:BA:451:C:C2	2.34	0.61
36:BA:110:G:O2'	36:BA:111:A:H5'	2.00	0.61
36:BA:588:U:H1'	41:BF:90:PHE:CG	2.35	0.61
36:BA:2101:G:H2'	36:BA:2102:U:C5'	2.30	0.61
36:BA:2620:C:H1'	40:BE:156:MET:HB2	1.83	0.61
40:BE:116:VAL:O	40:BE:117:MET:CB	2.48	0.61
43:BH:116:GLU:HG3	43:BH:117:PRO:HD2	1.81	0.61
50:BR:28:LEU:HD23	50:BR:29:LEU:N	2.15	0.61
52:BT:65:LYS:O	52:BT:72:VAL:HG23	2.00	0.61
52:BT:106:SER:O	52:BT:107:ASP:CB	2.48	0.61
1:CA:665:A:H2'	1:CA:725:G:N2	2.15	0.61
1:CA:1054:C:H6	1:CA:1196:U:C5	2.18	0.61
1:CA:1117:G:N2	1:CA:1180:A:H1'	2.14	0.61
1:CA:1354:C:H2'	1:CA:1355:G:O4'	2.00	0.61
7:CG:113:GLU:CB	7:CG:119:ARG:HG2	2.30	0.61
12:CL:119:LYS:O	12:CL:120:TYR:CB	2.48	0.61
16:CP:19:ILE:O	16:CP:36:ILE:HG13	2.01	0.61
17:CQ:10:VAL:HG23	17:CQ:55:ASP:O	2.00	0.61
32:D6:15:GLU:OE1	32:D6:18:ARG:NE	2.33	0.61
34:D8:13:ARG:HD2	48:DP:61:ARG:HD2	1.81	0.61
35:D9:14:CYS:HA	35:D9:26:ILE:O	2.00	0.61
36:DA:925:C:C3'	36:DA:926:A:H5''	2.29	0.61
36:DA:1190:G:H5'	48:DP:35:HIS:H	1.61	0.61
36:DA:1343:G:N2	36:DA:1405:U:C2	2.69	0.61
36:DA:1465:G:H5'	36:DA:1528:A:C8	2.35	0.61
38:DC:40:THR:HG22	38:DC:176:GLY:O	2.01	0.61
39:DD:112:GLN:H	39:DD:115:GLN:HE22	1.45	0.61
41:DF:24:LEU:CB	41:DF:25:PRO:CD	2.77	0.61
41:DF:43:LYS:HB3	41:DF:98:SER:HB2	1.81	0.61
42:DG:63:ILE:HG13	42:DG:64:THR:N	2.14	0.61
43:DH:169:VAL:O	43:DH:171:LEU:N	2.34	0.61
46:DN:33:LEU:HD12	46:DN:33:LEU:N	2.16	0.61
48:DP:24:GLY:CA	48:DP:33:ARG:NH1	2.63	0.61
48:DP:47:ASP:HB2	48:DP:51:PHE:HB2	1.82	0.61
49:DQ:75:THR:HG21	49:DQ:87:LYS:NZ	2.15	0.61
49:DQ:96:VAL:O	49:DQ:96:VAL:HG12	2.01	0.61
55:DW:59:VAL:O	55:DW:63:ASP:N	2.29	0.61
58:DZ:10:ARG:CB	58:DZ:36:LYS:HB2	2.27	0.61
58:DZ:81:ARG:CZ	58:DZ:81:ARG:CB	2.79	0.61
1:AA:758:G:O5'	1:AA:758:G:H8	1.84	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:886:G:H2'	1:AA:887:G:O4'	2.00	0.61
2:AB:87:ARG:HH21	2:AB:233:SER:HB3	1.65	0.61
3:AC:15:THR:CG2	3:AC:181:ASN:HA	2.30	0.61
11:AK:110:ASP:HB3	18:AR:85:LEU:HD23	1.81	0.61
12:AL:119:LYS:O	12:AL:120:TYR:CG	2.53	0.61
16:AP:45:THR:C	16:AP:47:ASP:H	2.01	0.61
20:AT:63:ILE:HG22	20:AT:77:ALA:HB1	1.82	0.61
30:B4:46:GLN:HG3	30:B4:47:GLN:N	2.14	0.61
36:BA:45:C:H42	36:BA:179:G:H1	1.49	0.61
36:BA:384:U:H2'	36:BA:385:C:H6	1.66	0.61
36:BA:697:C:O2'	36:BA:698:C:H5'	2.00	0.61
36:BA:1093:G:H4'	43:BH:170:ARG:NH1	2.15	0.61
36:BA:1515:G:H4'	36:BA:1556:C:O2'	1.99	0.61
36:BA:1519:G:H5'	36:BA:1520:G:OP2	2.01	0.61
39:BD:81:ALA:HA	39:BD:113:VAL:HG22	1.82	0.61
46:BN:35:ARG:HH21	46:BN:42:TRP:HH2	1.47	0.61
56:BX:29:TRP:CZ3	56:BX:78:LYS:HD2	2.35	0.61
58:BZ:57:ILE:HD12	58:BZ:57:ILE:N	2.15	0.61
1:CA:41:G:H2'	1:CA:42:G:H8	1.64	0.61
1:CA:849:C:H2'	1:CA:850:U:O4'	1.99	0.61
1:CA:947:G:H2'	1:CA:948:C:C6	2.35	0.61
1:CA:1181:G:O2'	1:CA:1182:G:H5'	2.00	0.61
59:CA:1601:PAR:H43	59:CA:1601:PAR:H642	1.81	0.61
2:CB:32:ILE:HG12	2:CB:33:TYR:N	2.16	0.61
4:CD:189:PRO:HB2	4:CD:194:LEU:CD2	2.28	0.61
6:CF:99:ALA:O	6:CF:100:ASN:HB2	2.01	0.61
8:CH:2:LEU:HD22	8:CH:3:THR:H	1.65	0.61
17:CQ:29:HIS:CG	17:CQ:30:PRO:HD2	2.35	0.61
25:CZ:263:ARG:HB2	25:CZ:263:ARG:CZ	2.31	0.61
32:D6:26:ASN:O	32:D6:27:LYS:HB2	2.01	0.61
34:D8:28:GLY:CA	34:D8:32:LEU:HD23	2.31	0.61
34:D8:62:LEU:CD1	36:DA:242:G:H3'	2.28	0.61
35:D9:1:MET:SD	36:DA:2477:C:C2'	2.88	0.61
35:D9:1:MET:SD	36:DA:2477:C:H3'	2.40	0.61
36:DA:428:A:H3'	36:DA:429:A:H8	1.65	0.61
36:DA:869:G:O2'	36:DA:870:A:H5'	1.99	0.61
36:DA:944:G:H5'	36:DA:945:A:O5'	2.00	0.61
36:DA:1242:A:H3'	36:DA:1243:G:H8	1.65	0.61
36:DA:1269:A:H61	36:DA:2011:U:H3	1.46	0.61
36:DA:1328:G:C2	36:DA:1647:G:N2	2.68	0.61
36:DA:1550:C:H2'	36:DA:1551:C:C6	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1654:A:H2	40:DE:113:PHE:CD2	2.19	0.61
36:DA:1902:C:H1'	39:DD:244:ARG:NE	2.16	0.61
36:DA:2689:U:H4'	36:DA:2690:C:H6	1.64	0.61
37:DB:105:A:H4'	58:DZ:89:PHE:CE2	2.36	0.61
39:DD:24:ILE:HD13	39:DD:25:THR:N	2.14	0.61
39:DD:224:ALA:HB2	39:DD:233:HIS:CB	2.23	0.61
42:DG:32:PRO:CA	42:DG:162:THR:HB	2.31	0.61
42:DG:114:ILE:O	42:DG:114:ILE:CG2	2.47	0.61
43:DH:19:VAL:HG12	43:DH:20:ALA:H	1.65	0.61
43:DH:116:GLU:HG3	43:DH:117:PRO:HD2	1.82	0.61
47:DO:63:VAL:HG23	47:DO:64:ARG:HG3	1.81	0.61
47:DO:71:ARG:HB3	47:DO:72:PRO:HD2	1.82	0.61
48:DP:71:VAL:HG13	48:DP:72:PRO:HD3	1.82	0.61
49:DQ:141:GLN:O	58:DZ:53:ILE:HB	2.01	0.61
52:DT:75:ILE:HD12	52:DT:75:ILE:N	2.16	0.61
53:DU:76:TYR:CE2	53:DU:80:ILE:HG13	2.35	0.61
54:DV:19:LYS:HB2	54:DV:96:ILE:HD11	1.81	0.61
58:DZ:12:GLY:HA3	58:DZ:36:LYS:NZ	2.15	0.61
1:AA:44:G:OP2	16:AP:12:LYS:HE3	2.00	0.61
1:AA:194:C:O2'	1:AA:195:A:H4'	2.01	0.61
1:AA:523:A:N6	12:AL:53:ARG:HH12	1.98	0.61
2:AB:32:ILE:HG12	2:AB:33:TYR:N	2.16	0.61
2:AB:82:ARG:O	2:AB:86:GLU:HG3	1.99	0.61
3:AC:68:VAL:HG12	3:AC:70:VAL:HG23	1.81	0.61
3:AC:105:GLU:HG2	3:AC:106:VAL:H	1.66	0.61
4:AD:23:GLY:HA3	4:AD:112:VAL:HG22	1.82	0.61
19:AS:6:LYS:HD2	19:AS:6:LYS:N	2.16	0.61
22:AW:53:G:N2	22:AW:62:C:N4	2.48	0.61
35:B9:14:CYS:HA	35:B9:26:ILE:O	2.00	0.61
36:BA:21:A:O2'	36:BA:22:C:H5'	2.01	0.61
36:BA:36:G:O2'	36:BA:37:C:H5'	2.01	0.61
36:BA:654(E):G:O2'	36:BA:654(F):C:H5'	2.00	0.61
36:BA:654(J):A:C8	36:BA:654(L):G:H8	2.18	0.61
36:BA:1824:G:H5''	39:BD:52:ARG:HH11	1.66	0.61
36:BA:1999:C:H5''	36:BA:2723:C:O2'	2.00	0.61
36:BA:2302:G:H3'	36:BA:2303:G:C8	2.32	0.61
36:BA:2482:G:N2	49:BQ:52:VAL:HG11	2.12	0.61
37:BB:18:G:H2'	37:BB:19:G:C1'	2.30	0.61
38:BC:45:ALA:O	38:BC:171:ILE:HG22	2.00	0.61
38:BC:100:ILE:HG23	38:BC:127:LEU:CD1	2.30	0.61
39:BD:130:ALA:HB2	39:BD:192:THR:HB	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:79:LEU:CD2	49:BQ:80:GLU:HG3	2.31	0.61
50:BR:57:ARG:O	50:BR:59:ASP:N	2.33	0.61
51:BS:17:ARG:HA	51:BS:20:ARG:NH1	2.16	0.61
51:BS:96:GLY:C	51:BS:98:VAL:H	2.02	0.61
52:BT:52:ILE:HG12	52:BT:61:PHE:CB	2.30	0.61
54:BV:14:VAL:HB	54:BV:96:ILE:HG21	1.83	0.61
1:CA:167:G:H2'	1:CA:168:G:C8	2.35	0.61
1:CA:1128:C:H2'	1:CA:1139:G:O6	2.00	0.61
2:CB:132:LYS:HA	2:CB:135:GLN:HB2	1.82	0.61
5:CE:100:VAL:CG2	5:CE:107:ARG:HH21	2.09	0.61
7:CG:121:ALA:O	7:CG:124:LEU:N	2.34	0.61
10:CJ:65:LEU:HD22	14:CN:56:VAL:HG22	1.82	0.61
16:CP:8:ARG:HG2	16:CP:8:ARG:HH11	1.66	0.61
18:CR:79:LEU:HD23	18:CR:80:PRO:HD2	1.81	0.61
20:CT:100:ILE:O	20:CT:100:ILE:HG22	2.00	0.61
22:CV:51:U:H2'	22:CV:52:G:C8	2.35	0.61
24:CY:24:G:H2'	24:CY:25:C:C6	2.36	0.61
24:CY:54:5MU:OP2	24:CY:54:5MU:H71	2.00	0.61
25:CZ:286:VAL:CG2	25:CZ:287:GLY:N	2.63	0.61
28:D2:53:LEU:CA	28:D2:56:GLN:HB2	2.31	0.61
35:D9:10:ILE:O	35:D9:11:CYS:SG	2.58	0.61
36:DA:1541:G:H4'	36:DA:1542:A:O5'	2.01	0.61
36:DA:1994:C:O2'	36:DA:1995:U:H5'	1.99	0.61
36:DA:2131:G:H4'	36:DA:2132:U:OP2	2.00	0.61
36:DA:2189:U:H2'	36:DA:2190:G:H4'	1.82	0.61
39:DD:243:GLY:O	39:DD:244:ARG:HB3	2.01	0.61
41:DF:36:VAL:O	41:DF:39:TRP:HB3	2.01	0.61
42:DG:42:GLY:HA2	42:DG:89:GLY:HA2	1.82	0.61
42:DG:100:TRP:O	42:DG:102:PHE:N	2.34	0.61
42:DG:167:GLU:O	42:DG:170:ARG:HB3	2.01	0.61
43:DH:61:HIS:O	43:DH:63:SER:N	2.33	0.61
49:DQ:51:ARG:O	49:DQ:55:VAL:HG12	1.99	0.61
51:DS:36:TYR:HD1	51:DS:36:TYR:H	1.48	0.61
57:DY:81:LYS:HG2	57:DY:96:ILE:HB	1.81	0.61
57:DY:86:ARG:HD2	57:DY:88:LYS:HE3	1.83	0.61
1:AA:55:A:H2'	25:AZ:232:THR:CG2	2.30	0.61
1:AA:728:A:H2'	1:AA:729:A:C8	2.35	0.61
1:AA:1054:C:N4	24:AY:34:G:O2'	2.32	0.61
1:AA:1126:U:O2'	1:AA:1127:G:H5'	2.00	0.61
4:AD:131:ARG:HD3	4:AD:131:ARG:N	2.11	0.61
4:AD:155:LEU:O	4:AD:159:ARG:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:75:ILE:HG13	10:AJ:76:ASN:H	1.66	0.61
20:AT:38:LYS:O	20:AT:42:GLN:HB2	2.01	0.61
22:AW:17:C:N4	36:BA:2110:G:N2	2.44	0.61
36:BA:444:C:OP2	41:BF:49:ALA:HB2	2.00	0.61
36:BA:874:G:H2'	36:BA:875:G:H8	1.64	0.61
36:BA:1331:A:HO2'	36:BA:1332:G:H8	1.48	0.61
36:BA:1458:C:H4'	36:BA:1459:G:C5'	2.29	0.61
36:BA:2043:C:H42	36:BA:2625:G:H1	1.48	0.61
36:BA:2199:A:H3'	36:BA:2200:C:H6	1.65	0.61
36:BA:2733:A:O2'	36:BA:2734:A:H5'	2.01	0.61
36:BA:2811:G:P	40:BE:60:ASN:HB2	2.41	0.61
48:BP:39:LYS:CE	48:BP:42:SER:HB3	2.30	0.61
48:BP:79:ARG:O	48:BP:110:TYR:HB3	1.99	0.61
51:BS:36:TYR:HD1	51:BS:36:TYR:H	1.49	0.61
57:BY:2:ARG:C	57:BY:4:LYS:H	2.03	0.61
58:BZ:165:VAL:CG1	58:BZ:166:SER:N	2.60	0.61
1:CA:15:G:H4'	5:CE:24:ARG:HH21	1.65	0.61
1:CA:125:U:H2'	1:CA:126:G:H8	1.66	0.61
1:CA:973:G:C1'	10:CJ:55:LYS:HE2	2.31	0.61
1:CA:1145:C:H1'	1:CA:1146:A:C8	2.35	0.61
1:CA:1255:G:H21	1:CA:1258:G:N2	1.97	0.61
3:CC:122:GLU:O	3:CC:125:GLU:N	2.33	0.61
5:CE:142:LEU:O	5:CE:143:ARG:HD3	2.00	0.61
17:CQ:26:GLN:O	17:CQ:27:PHE:HB3	1.99	0.61
17:CQ:52:LYS:HD2	17:CQ:52:LYS:H	1.66	0.61
19:CS:24:ALA:O	19:CS:25:LYS:HB2	2.00	0.61
25:CZ:149:LEU:O	25:CZ:149:LEU:HD12	2.01	0.61
30:D4:5:ILE:HD13	30:D4:5:ILE:H	1.66	0.61
32:D6:8:LYS:O	32:D6:27:LYS:HA	2.00	0.61
34:D8:30:ARG:O	34:D8:31:HIS:HB3	2.00	0.61
36:DA:201:C:H2'	36:DA:202:U:H5'	1.82	0.61
36:DA:547:A:H2'	36:DA:548:A:C8	2.36	0.61
36:DA:1812:A:C1'	39:DD:46:GLN:HE22	2.14	0.61
36:DA:2043:C:H42	36:DA:2625:G:H1	1.48	0.61
36:DA:2123:G:H1'	38:DC:172:HIS:HB3	1.83	0.61
52:DT:117:ASP:OD2	52:DT:120:ARG:HG3	2.01	0.61
1:AA:319:G:O2'	1:AA:320:C:H5'	2.00	0.61
1:AA:1148:U:H4'	9:AI:14:VAL:HG11	1.81	0.61
1:AA:1475:G:H4'	36:BA:1689:A:H4'	1.82	0.61
2:AB:132:LYS:HA	2:AB:135:GLN:HB2	1.82	0.61
2:AB:204:ASN:ND2	2:AB:204:ASN:C	2.54	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:187:ALA:HB3	3:AC:198:VAL:HB	1.83	0.61
7:AG:69:VAL:HA	7:AG:138:LYS:CD	2.24	0.61
9:AI:48:GLU:HB3	9:AI:101:PHE:HE2	1.65	0.61
12:AL:41:ARG:HH12	12:AL:57:LYS:NZ	1.98	0.61
12:AL:92:ASP:C	12:AL:93:LEU:HD23	2.20	0.61
13:AM:15:VAL:HG23	13:AM:16:ASP:H	1.66	0.61
34:B8:35:GLN:O	34:B8:36:LYS:HG3	2.01	0.61
36:BA:6:A:H2'	36:BA:7:G:C8	2.36	0.61
36:BA:549:G:O2'	36:BA:551:G:H5'	1.99	0.61
36:BA:1826:G:H4'	39:BD:242:ARG:HH21	1.64	0.61
36:BA:2048:G:H1	36:BA:2620:C:N4	1.98	0.61
36:BA:2087:G:O2'	36:BA:2088:G:H5'	2.00	0.61
36:BA:2131:G:O4'	36:BA:2133:G:N2	2.31	0.61
36:BA:2263:C:O2'	36:BA:2264:C:H5'	2.00	0.61
38:BC:206:GLY:HA3	38:BC:210:ARG:NH2	2.11	0.61
51:BS:69:VAL:O	51:BS:73:LEU:HB2	2.01	0.61
55:BW:72:LYS:O	55:BW:73:ALA:HB2	2.01	0.61
1:CA:106:C:C2'	1:CA:107:G:H5'	2.30	0.61
1:CA:522:C:H2'	1:CA:523:A:C8	2.35	0.61
1:CA:592:G:H2'	1:CA:593:G:H8	1.66	0.61
1:CA:1348:U:H4'	9:CI:120:ARG:CD	2.28	0.61
3:CC:58:GLU:HB2	3:CC:65:ALA:HB2	1.82	0.61
3:CC:120:VAL:HG13	3:CC:124:ILE:HD11	1.82	0.61
12:CL:90:VAL:HG22	12:CL:99:HIS:CE1	2.35	0.61
25:CZ:321:TYR:CE2	25:CZ:323:LEU:HD12	2.36	0.61
31:D5:16:ARG:NH1	31:D5:20:ARG:NH1	2.49	0.61
32:D6:12:GLU:HG2	32:D6:54:ILE:HG21	1.81	0.61
34:D8:3:LYS:HD3	36:DA:242:G:C5'	2.31	0.61
36:DA:955:C:H2'	36:DA:956:G:H5'	1.83	0.61
36:DA:1099:G:H2'	36:DA:1100:C:H6	1.65	0.61
36:DA:2562:U:H2'	36:DA:2563:U:H5'	1.82	0.61
36:DA:2756:U:H4'	36:DA:2757:A:O5'	2.00	0.61
36:DA:2801(A):A:C4'	36:DA:2802:G:H5'	2.31	0.61
37:DB:5:C:H2'	37:DB:6:C:H6	1.66	0.61
38:DC:113:VAL:HG21	38:DC:136:LEU:HB3	1.83	0.61
41:DF:195:ASP:HB3	41:DF:198:ALA:HB3	1.83	0.61
54:DV:14:VAL:HB	54:DV:96:ILE:HG21	1.82	0.61
1:AA:16:A:N1	1:AA:919:A:H2	1.99	0.61
1:AA:687:A:H1'	1:AA:688:G:OP2	2.01	0.61
1:AA:1081:G:H2'	1:AA:1082:G:H8	1.65	0.61
1:AA:1101:A:H4'	1:AA:1102:A:O5'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1239:A:N6	1:AA:1299:A:N6	2.48	0.61
1:AA:1312:G:H2'	1:AA:1313:U:H6	1.66	0.61
5:AE:50:GLU:HA	5:AE:50:GLU:OE2	2.00	0.61
8:AH:30:ARG:HH11	8:AH:30:ARG:CB	2.13	0.61
14:AN:3:ARG:O	14:AN:3:ARG:HG2	2.01	0.61
24:AY:6:U:C3'	24:AY:7:A:H5''	2.31	0.61
25:AZ:99:MET:N	25:AZ:241:ARG:NH2	2.48	0.61
25:AZ:221:PHE:O	25:AZ:222:LEU:HB2	2.01	0.61
28:B2:30:ARG:HA	56:BX:5:TYR:CD2	2.36	0.61
31:B5:43:HIS:HE1	36:BA:2816:C:H1'	1.65	0.61
32:B6:8:LYS:HA	32:B6:27:LYS:HD3	1.81	0.61
36:BA:39:C:H2'	36:BA:40:C:C6	2.35	0.61
36:BA:205:G:H1'	36:BA:206:U:H5	1.66	0.61
36:BA:483:A:O3'	57:BY:49:VAL:HG22	2.01	0.61
36:BA:848:G:N3	36:BA:933:A:H1'	2.15	0.61
36:BA:1779:U:C5	36:BA:1784:A:N7	2.69	0.61
36:BA:2248:C:C2'	36:BA:2249:U:H5'	2.30	0.61
36:BA:2275:C:OP1	36:BA:2275:C:H6	1.83	0.61
36:BA:2892:A:N6	36:BA:2893:G:H21	1.89	0.61
40:BE:31:CYS:HB2	40:BE:49:LEU:HD12	1.83	0.61
42:BG:131:TYR:HB3	42:BG:159:VAL:CG1	2.31	0.61
49:BQ:29:PHE:HB2	49:BQ:105:GLU:OE2	2.00	0.61
50:BR:83:ILE:HA	50:BR:86:ARG:HD3	1.81	0.61
53:BU:102:GLU:CB	53:BU:105:VAL:HB	2.31	0.61
54:BV:18:LEU:HD23	54:BV:19:LYS:N	2.16	0.61
58:BZ:144:LEU:N	58:BZ:144:LEU:HD22	2.15	0.61
1:CA:739:C:O2'	1:CA:740:U:H5'	2.01	0.61
1:CA:968:A:O2'	1:CA:969:A:OP1	2.19	0.61
1:CA:1152:A:H5''	10:CJ:13:HIS:HB2	1.83	0.61
1:CA:1356:G:O2'	1:CA:1357:A:H5'	2.01	0.61
2:CB:166:ASP:O	2:CB:169:LYS:HB2	2.00	0.61
4:CD:162:LEU:HD13	4:CD:162:LEU:O	1.99	0.61
7:CG:28:ASN:O	7:CG:31:MET:HB3	2.00	0.61
11:CK:41:THR:HG21	11:CK:72:ALA:HA	1.82	0.61
19:CS:63:THR:CG2	19:CS:66:MET:HG2	2.31	0.61
25:CZ:19:HIS:HD2	25:CZ:115:GLN:H	1.47	0.61
25:CZ:32:THR:O	25:CZ:33:TYR:C	2.38	0.61
25:CZ:137:LYS:HE2	62:CZ:501:GDP:C4	2.36	0.61
25:CZ:188:THR:HG23	25:CZ:192:GLU:OE2	2.01	0.61
27:D1:62:VAL:HG21	27:D1:67:ILE:CA	2.14	0.61
36:DA:442:G:N3	41:DF:48:THR:HG21	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:564:C:O2'	36:DA:565:C:H5'	2.00	0.61
36:DA:774:A:H2	36:DA:787:U:O2'	1.83	0.61
36:DA:819:A:H2'	36:DA:820:A:C5'	2.31	0.61
36:DA:958:U:O4	49:DQ:17:LEU:HD21	2.01	0.61
36:DA:2302:G:H3'	36:DA:2303:G:C8	2.33	0.61
36:DA:2476:A:H2	36:DA:2477:C:C5	2.18	0.61
36:DA:2787:C:H2'	36:DA:2787:C:O2	2.00	0.61
40:DE:23:VAL:HA	40:DE:184:VAL:O	2.01	0.61
53:DU:66:ASN:HB2	53:DU:76:TYR:HB2	1.83	0.61
54:DV:38:LEU:HD23	54:DV:39:LEU:N	2.15	0.61
55:DW:72:LYS:O	55:DW:73:ALA:HB2	2.01	0.61
58:DZ:165:VAL:HG12	58:DZ:167:PRO:HA	1.81	0.61
1:AA:106:C:O2'	1:AA:107:G:H5'	1.99	0.61
1:AA:708:C:O2'	1:AA:709:G:H5'	2.01	0.61
1:AA:1353:G:H2'	1:AA:1354:C:C6	2.35	0.61
1:AA:1354:C:H2'	1:AA:1355:G:O4'	2.01	0.61
1:AA:1372:U:H5''	9:AI:71:SER:CB	2.30	0.61
1:AA:1470:G:C2'	1:AA:1471:G:H8	1.99	0.61
7:AG:61:VAL:O	7:AG:62:PHE:C	2.39	0.61
25:AZ:137:LYS:HA	62:AZ:501:GDP:N1	2.16	0.61
26:B0:48:GLY:H	26:B0:51:VAL:HB	1.65	0.61
32:B6:14:THR:O	32:B6:49:HIS:HA	2.00	0.61
36:BA:203:C:C3'	36:BA:204:A:H5''	2.28	0.61
36:BA:619:G:H3'	36:BA:620:G:N2	2.15	0.61
36:BA:795:C:H2'	36:BA:796:C:H6	1.64	0.61
36:BA:907:U:OP1	49:BQ:24:GLY:N	2.33	0.61
36:BA:1343:G:C2'	36:BA:1344:G:H5'	2.30	0.61
36:BA:2529:G:H5''	36:BA:2530:A:H5''	1.82	0.61
36:BA:2579:C:O2'	40:BE:131:ALA:HB2	2.01	0.61
36:BA:2724:C:H2'	36:BA:2725:A:C8	2.36	0.61
38:BC:47:LEU:HD11	38:BC:171:ILE:HG22	1.83	0.61
46:BN:65:LYS:HB3	46:BN:65:LYS:NZ	2.16	0.61
47:BO:7:TYR:HA	47:BO:19:ILE:O	2.01	0.61
48:BP:30:THR:HG22	48:BP:31:ALA:N	2.14	0.61
51:BS:106:ARG:HD2	51:BS:107:GLU:C	2.21	0.61
54:BV:99:ILE:HD13	54:BV:99:ILE:N	2.16	0.61
56:BX:11:PRO:HG2	56:BX:13:LEU:CG	2.31	0.61
58:BZ:10:ARG:HG2	58:BZ:12:GLY:H	1.66	0.61
1:CA:194:C:O2'	1:CA:195:A:H4'	2.01	0.61
1:CA:1239:A:N6	1:CA:1299:A:N6	2.47	0.61
2:CB:39:ILE:HG22	2:CB:40:HIS:N	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:189:ASP:HB3	2:CB:203:GLY:O	2.01	0.61
4:CD:131:ARG:HD3	4:CD:131:ARG:N	2.10	0.61
7:CG:42:ILE:HG23	7:CG:117:ALA:CA	2.29	0.61
10:CJ:50:ILE:HA	10:CJ:60:ARG:CB	2.30	0.61
11:CK:38:ASN:N	11:CK:38:ASN:ND2	2.43	0.61
16:CP:20:VAL:HA	16:CP:36:ILE:CG1	2.31	0.61
19:CS:52:TYR:O	19:CS:53:ASN:HB3	2.01	0.61
24:CY:13:C:O2'	24:CY:14:A:H5''	2.00	0.61
25:CZ:355:LEU:HD22	25:CZ:359:VAL:CB	2.29	0.61
27:D1:25:LYS:HD2	36:DA:388:G:C4'	2.27	0.61
36:DA:329:G:N2	57:DY:19:LYS:HE3	2.15	0.61
36:DA:344:G:H3'	36:DA:344:G:OP2	2.01	0.61
36:DA:464:U:O2'	36:DA:465:G:H5'	2.01	0.61
36:DA:496:G:C1'	55:DW:61:ASN:HD22	2.13	0.61
36:DA:744:G:OP1	40:DE:132:HIS:HB3	2.01	0.61
36:DA:1199:U:H2'	36:DA:1200:C:C6	2.35	0.61
36:DA:1223:G:N2	36:DA:1225:G:H3'	2.16	0.61
36:DA:1345:C:C2'	36:DA:1346:G:H5'	2.31	0.61
36:DA:1845:G:O2'	36:DA:1846:G:H5'	2.01	0.61
36:DA:2297:C:O2'	36:DA:2298:A:H5'	2.00	0.61
36:DA:2475:C:H2'	36:DA:2477:C:OP1	2.01	0.61
38:DC:75:LEU:HB3	38:DC:93:TYR:HD2	1.66	0.61
41:DF:45:ARG:CZ	41:DF:97:TYR:CE1	2.84	0.61
42:DG:131:TYR:HB3	42:DG:159:VAL:HG12	1.81	0.61
55:DW:12:ILE:CG1	55:DW:42:ARG:HH12	2.13	0.61
58:DZ:69:THR:C	58:DZ:70:LEU:HD23	2.21	0.61
58:DZ:73:GLN:H	58:DZ:87:ASP:HB2	1.66	0.61
58:DZ:177:PRO:C	58:DZ:178:GLU:OE1	2.39	0.61
1:AA:669:U:H2'	1:AA:670:G:H8	1.65	0.60
1:AA:946:A:H2'	1:AA:947:G:C8	2.37	0.60
1:AA:1170:A:H2'	1:AA:1171:G:H5'	1.82	0.60
2:AB:112:VAL:O	2:AB:115:LEU:N	2.33	0.60
3:AC:58:GLU:HB2	3:AC:65:ALA:HB2	1.83	0.60
7:AG:5:ARG:O	7:AG:7:ALA:N	2.34	0.60
7:AG:69:VAL:CG1	7:AG:104:LEU:HD21	2.25	0.60
12:AL:111:LYS:O	12:AL:112:ASP:HB2	2.00	0.60
16:AP:19:ILE:O	16:AP:36:ILE:HG13	2.01	0.60
25:AZ:171:ILE:CG1	25:AZ:201:GLU:HB3	2.29	0.60
27:B1:41:ARG:NH1	36:BA:1365:A:O4'	2.26	0.60
36:BA:198:C:H5'	36:BA:2244:U:OP1	2.01	0.60
36:BA:479:A:O2'	36:BA:481:G:H5'	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:572:A:H5'	54:BV:78:LYS:NZ	2.15	0.60
36:BA:1012:U:C5	46:BN:28:THR:HG21	2.36	0.60
36:BA:1038:C:H3'	36:BA:1039:G:H5''	1.82	0.60
36:BA:1224:C:O2'	54:BV:85:LYS:HA	2.00	0.60
36:BA:1431:U:C2'	36:BA:1432:C:H5'	2.31	0.60
36:BA:1909:C:H42	36:BA:1921:G:H1	1.49	0.60
36:BA:2230:G:H2'	36:BA:2231:C:C6	2.36	0.60
36:BA:2570:G:H2'	36:BA:2571:C:C6	2.36	0.60
36:BA:2675:A:H5'	47:BO:31:LYS:NZ	2.16	0.60
36:BA:2715:C:H2'	36:BA:2716:U:C6	2.36	0.60
36:BA:2773:C:O3'	40:BE:164:ARG:HB3	2.01	0.60
36:BA:2807:G:H3'	36:BA:2808:U:C5'	2.22	0.60
39:BD:27:THR:HG23	39:BD:27:THR:O	2.01	0.60
39:BD:95:LEU:HD12	39:BD:103:ARG:O	2.00	0.60
41:BF:43:LYS:HB3	41:BF:98:SER:HB2	1.81	0.60
42:BG:41:GLN:HB3	42:BG:43:LEU:HD21	1.83	0.60
43:BH:12:PRO:O	43:BH:15:VAL:HG22	2.01	0.60
43:BH:169:VAL:O	43:BH:171:LEU:N	2.34	0.60
49:BQ:19:GLY:HA2	58:BZ:79:ARG:NH2	2.16	0.60
49:BQ:37:LEU:HD23	49:BQ:37:LEU:N	2.16	0.60
56:BX:12:VAL:HG12	56:BX:27:THR:O	2.01	0.60
1:CA:473:G:H5''	16:CP:81:ARG:NE	2.17	0.60
1:CA:773:G:H1	1:CA:806:C:H42	1.47	0.60
1:CA:925:G:H1	1:CA:1391:U:H3	1.48	0.60
1:CA:954:G:H4'	13:CM:120:LYS:CD	2.30	0.60
1:CA:1000:U:H2'	1:CA:1001:A:H8	1.65	0.60
1:CA:1372:U:H5''	9:CI:71:SER:CB	2.31	0.60
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.36	0.60
1:CA:1406:U:H2'	1:CA:1407:C:H6	1.65	0.60
1:CA:1426:C:N3	1:CA:1475:G:C6	2.69	0.60
2:CB:112:VAL:O	2:CB:115:LEU:N	2.33	0.60
10:CJ:65:LEU:HD22	14:CN:56:VAL:CG2	2.31	0.60
12:CL:25:PRO:C	12:CL:27:LEU:N	2.54	0.60
15:CO:12:ILE:HG22	15:CO:13:GLN:N	2.15	0.60
25:CZ:222:LEU:O	25:CZ:223:MET:HB3	2.01	0.60
25:CZ:316:PHE:O	25:CZ:371:THR:HG23	2.01	0.60
27:D1:84:GLY:C	27:D1:86:SER:H	2.04	0.60
31:D5:5:PRO:HA	36:DA:2056:G:N2	2.15	0.60
33:D7:8:ASN:C	33:D7:8:ASN:ND2	2.55	0.60
36:DA:757:U:H2'	36:DA:758:C:O4'	2.01	0.60
36:DA:1141:U:H2'	46:DN:63:THR:HG21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1202:C:C2'	36:DA:1203:G:H5'	2.30	0.60
36:DA:1403:C:H5''	36:DA:1471:A:C1'	2.31	0.60
36:DA:1431:U:C2'	36:DA:1432:C:H5'	2.30	0.60
36:DA:1640:C:O2'	36:DA:1641:A:H5'	2.01	0.60
36:DA:1709:U:H2'	36:DA:1710:C:C6	2.36	0.60
36:DA:1747(A):G:H2'	36:DA:1748:G:H5''	1.81	0.60
36:DA:2092:U:H4'	36:DA:2093:G:H5''	1.81	0.60
36:DA:2110:G:H22	36:DA:2178:C:N4	1.96	0.60
36:DA:2375:G:N3	36:DA:2379:G:N2	2.48	0.60
36:DA:2403:C:N4	36:DA:2414:G:H1	1.96	0.60
36:DA:2629:A:N3	36:DA:2629:A:H2'	2.16	0.60
40:DE:81:ILE:O	40:DE:81:ILE:HG22	2.00	0.60
40:DE:132:HIS:HA	40:DE:135:HIS:HE1	1.63	0.60
41:DF:61:GLY:HA2	41:DF:77:ASP:HB3	1.83	0.60
42:DG:120:LEU:HD12	42:DG:179:PRO:HD2	1.81	0.60
43:DH:86:GLU:OE1	43:DH:165:ALA:HB2	2.00	0.60
48:DP:71:VAL:CG1	48:DP:72:PRO:HD3	2.31	0.60
57:DY:29:GLU:OE1	57:DY:29:GLU:N	2.34	0.60
1:AA:346:G:H5'	52:BT:41:ARG:NH2	2.16	0.60
1:AA:640:A:N3	8:AH:115:SER:HB3	2.16	0.60
1:AA:925:G:H1	1:AA:1391:U:H3	1.48	0.60
2:AB:7:VAL:CG1	2:AB:11:LEU:HD11	2.30	0.60
3:AC:64:VAL:CG1	3:AC:66:VAL:HG23	2.30	0.60
5:AE:64:ARG:O	5:AE:66:MET:N	2.32	0.60
6:AF:14:LEU:HD13	6:AF:15:ASP:H	1.65	0.60
7:AG:72:ARG:HG3	7:AG:73:MET:HG3	1.83	0.60
11:AK:13:GLN:HG2	11:AK:75:TYR:O	2.01	0.60
18:AR:79:LEU:HD23	18:AR:80:PRO:HD2	1.83	0.60
20:AT:100:ILE:HG22	20:AT:100:ILE:O	2.01	0.60
28:B2:13:ALA:O	28:B2:16:LEU:HB2	2.01	0.60
32:B6:12:GLU:HG2	32:B6:54:ILE:HG21	1.81	0.60
33:B7:19:ARG:HD3	36:BA:125:G:O5'	2.02	0.60
34:B8:30:ARG:O	34:B8:31:HIS:HB3	2.01	0.60
35:B9:19:ARG:C	35:B9:21:GLY:H	2.03	0.60
36:BA:391:G:H8	36:BA:391:G:O5'	1.84	0.60
36:BA:496:G:C1'	55:BW:61:ASN:HD22	2.14	0.60
36:BA:809:G:O4'	36:BA:1254:A:H1'	2.01	0.60
36:BA:916:G:C2'	36:BA:917:A:H5''	2.30	0.60
36:BA:2636:U:OP1	40:BE:80:GLU:HG3	2.01	0.60
38:BC:186:ALA:O	38:BC:190:ARG:HG3	2.01	0.60
42:BG:114:ILE:O	42:BG:114:ILE:HG23	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:130:ASN:ND2	42:BG:160:VAL:HG13	2.16	0.60
43:BH:61:HIS:O	43:BH:63:SER:N	2.34	0.60
43:BH:94:TYR:CE2	43:BH:152:ARG:HG2	2.36	0.60
49:BQ:43:THR:OG1	49:BQ:45:GLN:HG2	2.01	0.60
50:BR:52:ILE:O	50:BR:55:ALA:HB3	2.01	0.60
50:BR:56:LYS:O	50:BR:58:GLY:N	2.34	0.60
52:BT:10:VAL:C	52:BT:12:SER:H	2.05	0.60
54:BV:29:PRO:HA	54:BV:61:VAL:HG21	1.82	0.60
56:BX:11:PRO:HA	56:BX:28:PHE:HB3	1.83	0.60
58:BZ:133:ILE:O	58:BZ:133:ILE:HG22	2.01	0.60
1:CA:218:C:H5'	1:CA:470:C:H42	1.65	0.60
1:CA:225:C:H2'	1:CA:226:G:C8	2.35	0.60
1:CA:275:G:O2'	1:CA:276:G:H5'	2.01	0.60
1:CA:544:G:N1	1:CA:545:C:C2	2.69	0.60
1:CA:668:G:H5'	15:CO:49:ASP:HA	1.81	0.60
2:CB:7:VAL:C	2:CB:11:LEU:HG	2.21	0.60
2:CB:96:ARG:O	2:CB:97:TRP:C	2.39	0.60
2:CB:204:ASN:C	2:CB:204:ASN:HD22	2.04	0.60
2:CB:222:ILE:O	2:CB:226:ARG:HB2	2.00	0.60
3:CC:15:THR:HG22	3:CC:16:ARG:N	2.16	0.60
8:CH:45:ILE:HG21	8:CH:61:VAL:CG1	2.31	0.60
9:CI:33:PHE:CE2	9:CI:47:LEU:HD11	2.36	0.60
30:D4:40:HIS:CD2	30:D4:41:PRO:HA	2.36	0.60
36:DA:392:C:H2'	36:DA:393:C:H5'	1.84	0.60
36:DA:1057:A:H2'	36:DA:1058:G:O4'	2.01	0.60
36:DA:1169:G:H1	36:DA:1180:C:N4	1.99	0.60
36:DA:1440:G:N2	36:DA:1552:G:H1'	2.16	0.60
36:DA:1448:G:H2'	36:DA:1449:A:C8	2.36	0.60
36:DA:1678:G:O5'	36:DA:1678:G:H8	1.83	0.60
36:DA:1806:C:N4	36:DA:1811:G:H1	1.99	0.60
36:DA:2226:C:H2'	36:DA:2227:A:O4'	2.00	0.60
36:DA:2689:U:H4'	36:DA:2690:C:C6	2.36	0.60
36:DA:2825:C:H6	36:DA:2825:C:O5'	1.85	0.60
37:DB:72:G:N2	37:DB:104:U:H5	1.99	0.60
39:DD:112:GLN:N	39:DD:115:GLN:NE2	2.40	0.60
39:DD:149:PRO:HG3	39:DD:186:HIS:CD2	2.36	0.60
41:DF:53:THR:HG22	41:DF:56:GLU:CG	2.32	0.60
41:DF:122:LYS:HG3	41:DF:191:ARG:HG3	1.82	0.60
46:DN:23:LEU:HD12	46:DN:102:ALA:HB2	1.81	0.60
47:DO:111:PHE:HB3	47:DO:114:ILE:CD1	2.30	0.60
48:DP:23:PRO:HA	48:DP:29:LYS:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:66:GLY:O	48:DP:67:MET:CB	2.49	0.60
53:DU:31:SER:HB3	53:DU:34:LYS:HB2	1.83	0.60
56:DX:57:LEU:O	56:DX:57:LEU:HD22	2.01	0.60
1:AA:218:C:H5'	1:AA:470:C:H42	1.67	0.60
1:AA:295:C:O2'	1:AA:296:U:H5'	2.01	0.60
1:AA:448:A:H2'	1:AA:449:C:C6	2.36	0.60
1:AA:503:C:H2'	1:AA:504:C:H6	1.65	0.60
2:AB:87:ARG:NH2	2:AB:233:SER:HB3	2.17	0.60
4:AD:170:VAL:HG12	4:AD:171:GLY:H	1.63	0.60
5:AE:76:ILE:HD11	5:AE:78:HIS:O	2.01	0.60
35:B9:1:MET:CG	35:B9:31:LYS:O	2.50	0.60
36:BA:581:C:H2'	36:BA:582:G:H8	1.66	0.60
36:BA:744:G:OP1	40:BE:132:HIS:HB3	2.02	0.60
36:BA:1057:A:C2	36:BA:1058:G:H1'	2.36	0.60
36:BA:1824:G:H5''	39:BD:52:ARG:NH1	2.16	0.60
36:BA:2654:A:N3	36:BA:2656:U:N3	2.49	0.60
37:BB:72:G:N2	37:BB:104:U:H5	1.99	0.60
38:BC:113:VAL:HG21	38:BC:136:LEU:HB3	1.83	0.60
39:BD:106:ILE:O	39:BD:108:PRO:HD3	2.01	0.60
41:BF:195:ASP:OD2	41:BF:197:ASP:HB2	2.00	0.60
42:BG:21:ARG:CZ	42:BG:22:ARG:HA	2.30	0.60
42:BG:163:ALA:HB1	42:BG:169:ALA:CB	2.24	0.60
46:BN:18:ALA:HB2	46:BN:26:LEU:HD13	1.83	0.60
46:BN:55:VAL:CG2	46:BN:126:PRO:HA	2.25	0.60
48:BP:36:LYS:CD	48:BP:41:ARG:HB3	2.31	0.60
50:BR:11:ASN:O	50:BR:12:ARG:HB2	2.01	0.60
50:BR:14:SER:HA	50:BR:17:ARG:NH1	2.16	0.60
52:BT:77:PRO:O	52:BT:78:LEU:HB2	2.01	0.60
53:BU:90:VAL:HG12	53:BU:91:ASP:N	2.14	0.60
54:BV:51:VAL:HG12	54:BV:52:VAL:H	1.65	0.60
1:CA:539:A:OP2	12:CL:115:LYS:HE3	2.02	0.60
1:CA:955:U:O2'	1:CA:956:U:H5'	2.02	0.60
2:CB:121:LEU:CD2	2:CB:127:ILE:HD11	2.29	0.60
2:CB:162:ILE:HG22	2:CB:183:PRO:O	2.02	0.60
6:CF:3:ARG:NH1	6:CF:38:GLU:OE1	2.34	0.60
6:CF:14:LEU:HD13	6:CF:15:ASP:H	1.66	0.60
8:CH:30:ARG:HH11	8:CH:30:ARG:CB	2.14	0.60
9:CI:43:ALA:C	9:CI:45:ALA:N	2.55	0.60
13:CM:108:ARG:HH11	13:CM:108:ARG:CB	2.15	0.60
16:CP:55:ARG:NH2	16:CP:58:TYR:CD2	2.69	0.60
25:CZ:19:HIS:CD2	25:CZ:115:GLN:HB2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D0:55:ARG:C	26:D0:57:PHE:H	2.04	0.60
36:DA:271(M):G:H2'	36:DA:271(N):U:C5'	2.18	0.60
36:DA:669:G:N2	36:DA:670:A:C2	2.68	0.60
36:DA:1060:U:H1'	36:DA:1061:U:C5'	2.31	0.60
36:DA:1747(A):G:C3'	36:DA:1748:G:H5''	2.31	0.60
36:DA:2377:A:H4'	51:DS:107:GLU:O	2.00	0.60
36:DA:2469:A:O2'	49:DQ:56:ARG:HG3	2.01	0.60
36:DA:2720:U:H2'	36:DA:2720:U:O2	2.00	0.60
38:DC:131:LEU:HD22	38:DC:136:LEU:HD12	1.83	0.60
40:DE:108:SER:O	40:DE:162:ALA:HA	2.00	0.60
43:DH:20:ALA:CB	43:DH:23:ARG:HB2	2.27	0.60
46:DN:5:VAL:CG1	46:DN:7:LYS:HG3	2.30	0.60
46:DN:75:TYR:HA	46:DN:82:LEU:HA	1.83	0.60
51:DS:83:LYS:HG2	51:DS:105:ALA:CB	2.32	0.60
52:DT:38:ASN:ND2	52:DT:40:THR:OG1	2.34	0.60
1:AA:319:G:H4'	1:AA:1468:A:H5'	1.83	0.60
1:AA:526:C:H2'	1:AA:527:G:H4'	1.82	0.60
1:AA:1108:G:H5'	3:AC:176:HIS:HD2	1.67	0.60
1:AA:1181:G:O2'	1:AA:1182:G:H5'	2.02	0.60
1:AA:1235:U:O3'	21:AU:3:LYS:HB2	2.02	0.60
1:AA:1423:G:C4	1:AA:1424:C:C5	2.89	0.60
2:AB:204:ASN:ND2	2:AB:207:ALA:H	2.00	0.60
3:AC:40:ARG:CZ	3:AC:57:ILE:HD12	2.31	0.60
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.21	0.60
4:AD:102:ASP:O	4:AD:105:VAL:HB	2.01	0.60
4:AD:121:VAL:O	4:AD:134:ASP:HA	2.00	0.60
17:AQ:10:VAL:HG23	17:AQ:55:ASP:O	2.01	0.60
17:AQ:13:ASP:C	17:AQ:15:MET:H	2.03	0.60
18:AR:73:ALA:CB	18:AR:79:LEU:HD12	2.31	0.60
25:AZ:19:HIS:HD2	25:AZ:115:GLN:H	1.48	0.60
25:AZ:113:MET:O	25:AZ:116:THR:HB	2.01	0.60
30:B4:8:LYS:HG2	30:B4:9:LEU:H	1.64	0.60
30:B4:9:LEU:C	30:B4:10:VAL:HG12	2.22	0.60
36:BA:342:G:H2'	36:BA:343:C:H6	1.65	0.60
36:BA:672:C:H2'	36:BA:673:C:C5'	2.31	0.60
36:BA:819:A:H2'	36:BA:820:A:C5'	2.31	0.60
36:BA:1011:G:O2'	36:BA:1013:C:H5''	2.01	0.60
36:BA:1215:G:H2'	36:BA:1216:G:H8	1.66	0.60
36:BA:1924:C:H2'	36:BA:1925:C:H6	1.66	0.60
36:BA:2117:A:N6	36:BA:2171:A:H61	1.99	0.60
36:BA:2315:G:H2'	36:BA:2316:C:C6	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2377:A:H4'	51:BS:107:GLU:O	2.01	0.60
38:BC:5:LYS:HG3	38:BC:6:ARG:N	2.16	0.60
40:BE:39:PRO:HD3	40:BE:45:THR:OG1	2.02	0.60
41:BF:7:TYR:HD2	41:BF:16:GLY:H	1.48	0.60
41:BF:34:TRP:HB2	48:BP:10:PRO:HB2	1.83	0.60
41:BF:177:ALA:HB1	41:BF:178:PRO:HD2	1.82	0.60
46:BN:46:VAL:HG13	46:BN:48:MET:HG3	1.83	0.60
57:BY:85:VAL:HG12	57:BY:86:ARG:N	2.16	0.60
1:CA:185:A:N3	20:CT:81:LYS:NZ	2.47	0.60
1:CA:436:C:H2'	1:CA:437:U:H6	1.67	0.60
1:CA:1095:U:H5'	1:CA:1109:C:O2	2.01	0.60
1:CA:1237:C:C4'	1:CA:1334:G:N2	2.65	0.60
1:CA:1314:C:N4	19:CS:4:SER:HB2	2.17	0.60
2:CB:76:GLN:O	2:CB:77:ALA:HB2	2.02	0.60
3:CC:153:VAL:O	3:CC:154:SER:CB	2.50	0.60
7:CG:61:VAL:O	7:CG:62:PHE:C	2.39	0.60
9:CI:99:LEU:C	9:CI:101:PHE:H	2.04	0.60
13:CM:91:ARG:CB	13:CM:98:VAL:HG22	2.28	0.60
30:D4:16:CYS:SG	30:D4:17:GLY:N	2.74	0.60
31:D5:46:CYS:HB2	31:D5:47:PRO:HD2	1.82	0.60
32:D6:32:ASN:CG	32:D6:33:LYS:H	2.05	0.60
36:DA:832:G:OP1	48:DP:40:SER:HB2	2.00	0.60
38:DC:206:GLY:HA3	38:DC:210:ARG:NH2	2.14	0.60
39:DD:172:TYR:HD1	39:DD:186:HIS:HA	1.66	0.60
39:DD:176:ARG:HH11	39:DD:176:ARG:HG2	1.64	0.60
40:DE:44:TYR:O	40:DE:45:THR:HB	1.99	0.60
52:DT:11:GLU:H	52:DT:11:GLU:CD	2.05	0.60
52:DT:63:VAL:O	52:DT:73:GLU:HA	2.01	0.60
53:DU:20:LEU:HD22	53:DU:20:LEU:N	2.16	0.60
53:DU:38:THR:O	53:DU:41:ALA:HB3	2.00	0.60
53:DU:52:ARG:HA	53:DU:55:ARG:HH12	1.65	0.60
53:DU:59:ARG:O	53:DU:62:ILE:N	2.34	0.60
55:DW:14:PRO:HG2	55:DW:78:GLU:CD	2.21	0.60
57:DY:2:ARG:C	57:DY:4:LYS:H	2.04	0.60
58:DZ:58:VAL:HG13	58:DZ:67:LEU:O	2.02	0.60
1:AA:447:G:H2'	1:AA:485:G:H22	1.63	0.60
1:AA:697:U:H2'	1:AA:698:G:H5'	1.82	0.60
1:AA:1199:U:H4'	10:AJ:54:PHE:CE2	2.37	0.60
1:AA:1239:A:H4'	1:AA:1240:U:O5'	2.01	0.60
1:AA:1372:U:OP1	9:AI:72:GLY:N	2.35	0.60
2:AB:39:ILE:HG22	2:AB:40:HIS:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:162:LEU:HD13	4:AD:162:LEU:O	2.00	0.60
4:AD:189:PRO:HB2	4:AD:194:LEU:CD2	2.29	0.60
8:AH:28:ALA:HB3	8:AH:57:PRO:O	2.02	0.60
8:AH:81:HIS:ND1	8:AH:138:TRP:OXT	2.34	0.60
25:AZ:355:LEU:HD22	25:AZ:359:VAL:HB	1.83	0.60
28:B2:59:ARG:HA	36:BA:76:C:O2'	2.01	0.60
34:B8:15:LYS:HD3	48:BP:65:ARG:CZ	2.32	0.60
36:BA:1141:U:H2'	46:BN:63:THR:HG21	1.84	0.60
36:BA:1722:A:C2	36:BA:1740:G:H2'	2.37	0.60
36:BA:1826:G:C4'	39:BD:242:ARG:HH21	2.14	0.60
36:BA:2196:C:O2'	36:BA:2197:U:H5'	2.02	0.60
36:BA:2219:G:C2'	36:BA:2220:G:H5'	2.30	0.60
36:BA:2235:G:H2'	36:BA:2236:C:C6	2.36	0.60
36:BA:2673:G:H2'	36:BA:2674:G:H8	1.66	0.60
36:BA:2840:C:C5'	50:BR:53:HIS:CD2	2.76	0.60
40:BE:29:GLY:HA2	40:BE:180:ASN:ND2	2.16	0.60
41:BF:171:PRO:C	41:BF:173:VAL:H	2.04	0.60
42:BG:46:ALA:HA	42:BG:53:LEU:HD23	1.82	0.60
42:BG:133:LEU:C	42:BG:133:LEU:HD12	2.21	0.60
47:BO:7:TYR:HE1	47:BO:20:MET:CE	2.15	0.60
49:BQ:140:ALA:HB1	58:BZ:99:TYR:HB3	1.84	0.60
51:BS:92:TYR:CG	51:BS:93:LYS:N	2.69	0.60
54:BV:17:GLY:C	54:BV:18:LEU:HD13	2.22	0.60
57:BY:73:ARG:O	57:BY:74:PRO:O	2.19	0.60
1:CA:503:C:H2'	1:CA:504:C:H6	1.65	0.60
1:CA:630:G:H2'	1:CA:631:G:H5'	1.83	0.60
1:CA:1237:C:H4'	1:CA:1334:G:H22	1.65	0.60
1:CA:1305:G:H21	1:CA:1331:G:H2'	1.67	0.60
1:CA:1310:G:O2'	1:CA:1311:G:H5'	2.00	0.60
1:CA:1385:G:O2'	1:CA:1386:G:H5'	2.01	0.60
2:CB:44:LEU:H	2:CB:44:LEU:CD1	2.07	0.60
2:CB:104:ASN:OD1	2:CB:107:THR:HB	2.01	0.60
8:CH:85:ARG:HG3	8:CH:85:ARG:HH11	1.65	0.60
20:CT:57:ARG:HH12	20:CT:103:GLY:H	1.50	0.60
27:D1:25:LYS:HB3	36:DA:388:G:H5'	1.84	0.60
34:D8:15:LYS:HD3	48:DP:65:ARG:CZ	2.30	0.60
35:D9:1:MET:CG	35:D9:31:LYS:O	2.49	0.60
36:DA:523:C:H2'	36:DA:524:U:C5'	2.25	0.60
36:DA:678:C:H2'	36:DA:679:C:C6	2.36	0.60
36:DA:1188:U:O2'	36:DA:1189:A:H5'	2.02	0.60
36:DA:1431:U:O2'	36:DA:1432:C:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1503:U:C6	36:DA:1504:C:H5	2.19	0.60
36:DA:2476:A:C2'	36:DA:2477:C:H5''	2.29	0.60
36:DA:2654:A:N3	36:DA:2656:U:N3	2.49	0.60
38:DC:131:LEU:HD22	38:DC:136:LEU:CD1	2.31	0.60
42:DG:106:LEU:O	42:DG:110:ALA:HB3	2.02	0.60
47:DO:64:ARG:NE	52:DT:70:VAL:HG21	2.16	0.60
48:DP:84:ASN:C	48:DP:86:LYS:N	2.53	0.60
49:DQ:79:LEU:CD2	49:DQ:80:GLU:HG3	2.32	0.60
51:DS:96:GLY:C	51:DS:98:VAL:H	2.04	0.60
52:DT:52:ILE:HG12	52:DT:61:PHE:CB	2.31	0.60
53:DU:102:GLU:CB	53:DU:105:VAL:HB	2.31	0.60
54:DV:51:VAL:HG12	54:DV:52:VAL:H	1.66	0.60
58:DZ:149:SER:HB3	58:DZ:172:ALA:O	2.01	0.60
1:AA:973:G:H3'	1:AA:974:A:H5''	1.81	0.60
1:AA:1102:A:H2'	1:AA:1103:C:H6	1.65	0.60
2:AB:130:ARG:NE	2:AB:131:PRO:HD2	2.16	0.60
10:AJ:54:PHE:C	10:AJ:55:LYS:CE	2.67	0.60
24:AY:55:PSU:O4	24:AY:55:PSU:H3'	2.00	0.60
25:AZ:286:VAL:CG2	25:AZ:287:GLY:N	2.63	0.60
29:B3:7:LYS:HA	29:B3:34:GLU:HA	1.83	0.60
31:B5:4:HIS:O	36:BA:2056:G:N2	2.33	0.60
32:B6:19:ARG:CD	36:BA:2400:G:H4'	2.20	0.60
36:BA:89:G:H3'	36:BA:90:U:C5'	2.31	0.60
36:BA:520:G:H2'	36:BA:521:G:H8	1.67	0.60
36:BA:1343:G:N2	36:BA:1405:U:C2	2.70	0.60
36:BA:1345:C:H2'	36:BA:1346:G:H5'	1.83	0.60
36:BA:1570:A:H2'	36:BA:1571:A:C8	2.37	0.60
36:BA:2453:A:O2'	36:BA:2454:G:H5'	2.02	0.60
36:BA:2476:A:H2	36:BA:2477:C:C5	2.19	0.60
36:BA:2484:G:O2'	36:BA:2485:G:H5'	2.01	0.60
36:BA:2584:U:O5'	36:BA:2584:U:O2	2.20	0.60
38:BC:198:ALA:O	38:BC:200:LYS:N	2.35	0.60
39:BD:213:ARG:HD2	39:BD:217:ARG:O	2.01	0.60
41:BF:102:PRO:O	41:BF:106:ARG:HG3	2.01	0.60
47:BO:91:LEU:HD13	47:BO:111:PHE:CE1	2.37	0.60
49:BQ:39:PRO:HG3	49:BQ:99:PRO:CD	2.32	0.60
49:BQ:74:TYR:HD1	49:BQ:75:THR:N	1.99	0.60
55:BW:6:ILE:HG22	55:BW:7:ALA:N	2.16	0.60
57:BY:81:LYS:HG2	57:BY:96:ILE:HB	1.84	0.60
1:CA:668:G:O2'	15:CO:46:HIS:HB3	2.01	0.60
1:CA:708:C:H2'	1:CA:709:G:H8	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:749:C:O2'	1:CA:750:G:H5'	2.02	0.60
1:CA:1108:G:H5'	3:CC:176:HIS:HD2	1.67	0.60
1:CA:1442(B):A:C2	52:DT:118:ARG:NH1	2.69	0.60
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	1.82	0.60
4:CD:17:VAL:HG21	4:CD:63:LYS:NZ	2.16	0.60
4:CD:121:VAL:O	4:CD:134:ASP:HA	2.01	0.60
9:CI:48:GLU:HB3	9:CI:101:PHE:CE2	2.36	0.60
28:D2:68:ARG:NH1	28:D2:72:ALA:HB2	2.17	0.60
33:D7:11:LYS:HZ3	36:DA:686:G:H5''	1.67	0.60
36:DA:110:G:O2'	36:DA:111:A:H5'	2.01	0.60
36:DA:183:C:H5'	36:DA:433:C:H4'	1.83	0.60
36:DA:328:U:H4'	57:DY:68:HIS:CE1	2.37	0.60
36:DA:637:A:H4'	36:DA:638:G:O5'	2.02	0.60
36:DA:916:G:C2'	36:DA:917:A:H5''	2.31	0.60
36:DA:978:G:H1	36:DA:985:C:N4	1.99	0.60
36:DA:1137:G:H2'	36:DA:1138:G:C8	2.36	0.60
36:DA:1403:C:H5''	36:DA:1471:A:H1'	1.83	0.60
36:DA:1675:C:O2	40:DE:129:HIS:HA	2.01	0.60
36:DA:1902:C:C4'	39:DD:244:ARG:HB2	2.31	0.60
36:DA:2127:G:H2'	36:DA:2128:C:H6	1.67	0.60
36:DA:2312:U:O2'	36:DA:2313:C:H5''	2.00	0.60
36:DA:2338:G:H2'	36:DA:2339:G:C8	2.35	0.60
48:DP:9:ASN:H	48:DP:10:PRO:CD	2.03	0.60
48:DP:115:LEU:HG	48:DP:116:GLY:N	2.17	0.60
49:DQ:141:GLN:HB3	58:DZ:98:MET:HA	1.82	0.60
53:DU:49:HIS:O	53:DU:53:ARG:N	2.29	0.60
53:DU:65:ILE:HD11	53:DU:96:ALA:HB3	1.84	0.60
54:DV:19:LYS:HB3	54:DV:94:LEU:O	2.02	0.60
58:DZ:100:VAL:HG13	58:DZ:101:PRO:HD2	1.84	0.60
1:AA:41:G:H2'	1:AA:42:G:H8	1.61	0.60
1:AA:972:C:OP2	10:AJ:57:LYS:HE2	2.01	0.60
1:AA:1298:C:P	7:AG:114:ARG:HH22	2.25	0.60
1:AA:1401:G:H8	1:AA:1401:G:O5'	1.84	0.60
2:AB:14:GLY:O	2:AB:15:VAL:HG13	2.02	0.60
2:AB:87:ARG:CZ	2:AB:233:SER:HB3	2.31	0.60
7:AG:28:ASN:O	7:AG:31:MET:HB3	2.01	0.60
10:AJ:65:LEU:HD13	14:AN:56:VAL:H	1.66	0.60
22:AW:67:C:O2'	22:AW:68:C:H5'	2.02	0.60
25:AZ:321:TYR:CE2	25:AZ:323:LEU:HD12	2.37	0.60
34:B8:61:LEU:O	34:B8:64:TYR:N	2.31	0.60
36:BA:271(M):G:H2'	36:BA:271(N):U:C5'	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:361:G:H2'	36:BA:362:U:H4'	1.82	0.60
36:BA:528:A:H2	36:BA:2043:C:H4'	1.67	0.60
36:BA:658:C:H2'	36:BA:659:C:C6	2.37	0.60
36:BA:783:A:H8	36:BA:784:A:H4'	1.67	0.60
36:BA:821:A:H5''	36:BA:822:U:C6	2.35	0.60
36:BA:1550:C:H2'	36:BA:1551:C:C6	2.37	0.60
36:BA:2113:U:H2'	36:BA:2114:A:H8	1.65	0.60
36:BA:2199:A:H2'	36:BA:2199:A:N3	2.16	0.60
36:BA:2283:C:H5	36:BA:2389:G:H2'	1.66	0.60
38:BC:75:LEU:HB3	38:BC:93:TYR:HD2	1.66	0.60
43:BH:136:ILE:HD12	43:BH:136:ILE:N	2.17	0.60
50:BR:73:VAL:HG12	50:BR:77:ARG:NH1	2.16	0.60
51:BS:29:PHE:HD2	51:BS:30:ARG:N	1.98	0.60
51:BS:64:GLU:O	51:BS:67:ARG:HG3	2.01	0.60
54:BV:24:LYS:HA	54:BV:92:THR:CG2	2.31	0.60
1:CA:46:G:H1'	1:CA:396:G:N2	2.16	0.60
1:CA:599:C:H4'	8:CH:130:GLY:HA3	1.84	0.60
1:CA:1005:A:OP2	1:CA:1006:C:N3	2.35	0.60
3:CC:40:ARG:NH2	3:CC:57:ILE:HD12	2.16	0.60
4:CD:201:GLN:HA	4:CD:204:ILE:CD1	2.31	0.60
5:CE:45:PHE:CD2	5:CE:47:LYS:HD2	2.36	0.60
10:CJ:49:VAL:O	10:CJ:49:VAL:HG13	2.01	0.60
25:CZ:195:TRP:O	25:CZ:199:ILE:HG12	2.01	0.60
25:CZ:381:GLU:O	25:CZ:382:GLU:O	2.20	0.60
26:D0:28:GLY:H	26:D0:66:VAL:HG13	1.66	0.60
26:D0:47:PRO:O	26:D0:78:TYR:HD2	1.84	0.60
28:D2:50:ILE:HD12	28:D2:50:ILE:N	2.17	0.60
34:D8:50:LEU:O	34:D8:52:LYS:N	2.30	0.60
36:DA:966:G:H2'	36:DA:967:C:C6	2.36	0.60
36:DA:1693:U:O2'	39:DD:14:ARG:NH2	2.35	0.60
36:DA:1999:C:H5''	36:DA:2723:C:O2'	2.02	0.60
36:DA:2012:G:H4'	55:DW:96:ILE:CD1	2.16	0.60
36:DA:2482:G:N2	49:DQ:52:VAL:HG11	2.13	0.60
36:DA:2593:U:H2'	36:DA:2594:C:H6	1.66	0.60
37:DB:19:G:H5'	37:DB:20:C:OP2	2.02	0.60
38:DC:5:LYS:HG3	38:DC:6:ARG:N	2.16	0.60
38:DC:40:THR:HG23	38:DC:177:LYS:CD	2.32	0.60
39:DD:27:THR:O	39:DD:27:THR:HG23	2.01	0.60
43:DH:44:VAL:CG1	43:DH:45:VAL:H	2.13	0.60
47:DO:12:ASP:HA	47:DO:97:ARG:O	2.01	0.60
47:DO:64:ARG:O	47:DO:82:ASN:HA	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:103:ARG:O	52:DT:105:LEU:N	2.34	0.60
57:DY:21:LYS:HG2	57:DY:21:LYS:O	2.02	0.60
58:DZ:127:LYS:O	58:DZ:128:VAL:HB	2.01	0.60
1:AA:544:G:N1	1:AA:545:C:C2	2.70	0.60
1:AA:1008:C:H42	1:AA:1021:G:H1	1.50	0.60
3:AC:50:ALA:O	3:AC:71:ALA:HB3	2.01	0.60
3:AC:113:ALA:HB3	3:AC:185:GLY:H	1.67	0.60
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.15	0.60
8:AH:118:VAL:C	8:AH:119:LEU:HD23	2.22	0.60
9:AI:78:LYS:HE3	9:AI:101:PHE:CZ	2.37	0.60
11:AK:99:GLN:HG2	11:AK:105:VAL:HG11	1.84	0.60
12:AL:94:PRO:O	12:AL:96:VAL:N	2.35	0.60
17:AQ:10:VAL:CG2	17:AQ:55:ASP:HB2	2.31	0.60
19:AS:11:VAL:HG13	19:AS:11:VAL:O	2.02	0.60
22:AW:8:U:O2'	22:AW:9:A:H5''	2.01	0.60
24:AY:9:A:H62	24:AY:23:A:H62	1.50	0.60
25:AZ:152:MET:HE2	25:AZ:156:ASP:HB2	1.82	0.60
25:AZ:339:ARG:HE	25:AZ:352:VAL:HG22	1.64	0.60
29:B3:1:MET:O	29:B3:3:ARG:N	2.34	0.60
30:B4:6:HIS:HB3	42:BG:67:LYS:CE	2.30	0.60
32:B6:36:LEU:HD12	32:B6:50:ARG:NH1	2.15	0.60
36:BA:55:G:O2'	36:BA:127:A:H2	1.84	0.60
36:BA:987:G:C2	36:BA:988:A:H1'	2.37	0.60
36:BA:1669:A:H2'	36:BA:1670:C:H5'	1.84	0.60
36:BA:2312:U:C2'	36:BA:2313:C:H5''	2.32	0.60
38:BC:65:PRO:HD2	38:BC:188:ASN:OD1	2.02	0.60
42:BG:5:VAL:HG12	42:BG:6:ALA:N	2.16	0.60
48:BP:100:LEU:HD13	48:BP:103:ALA:HB3	1.82	0.60
51:BS:78:LEU:HD11	51:BS:103:GLU:HB2	1.83	0.60
56:BX:18:TYR:O	56:BX:20:GLY:N	2.34	0.60
1:CA:295:C:H2'	1:CA:296:U:C6	2.30	0.60
1:CA:342:C:H2'	1:CA:343:U:O4'	2.02	0.60
1:CA:512:U:H2'	1:CA:513:C:C6	2.37	0.60
1:CA:922:G:H1'	5:CE:19:MET:HB2	1.83	0.60
1:CA:960:U:O2	1:CA:960:U:H2'	2.01	0.60
1:CA:1320:C:H5''	19:CS:70:LYS:CG	2.31	0.60
1:CA:1363(A):A:H4'	1:CA:1364:U:C5'	2.29	0.60
2:CB:87:ARG:CZ	2:CB:233:SER:HB3	2.31	0.60
2:CB:87:ARG:NH2	2:CB:233:SER:HB3	2.17	0.60
11:CK:90:GLY:HA2	11:CK:93:GLN:HB2	1.83	0.60
11:CK:99:GLN:HG2	11:CK:105:VAL:HG11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:34:LYS:HG2	17:CQ:35:VAL:N	2.16	0.60
20:CT:74:LYS:HD3	20:CT:74:LYS:N	2.17	0.60
20:CT:75:ASN:HA	20:CT:78:ALA:HB3	1.82	0.60
27:D1:7:ILE:HD12	27:D1:70:VAL:CG2	2.32	0.60
27:D1:58:ILE:HG13	27:D1:59:THR:H	1.66	0.60
36:DA:203:C:C3'	36:DA:204:A:H5''	2.32	0.60
36:DA:271(L):U:H5''	36:DA:271(M):G:C5'	2.27	0.60
36:DA:287:C:H2'	36:DA:288:C:H6	1.63	0.60
36:DA:342:G:H2'	36:DA:343:C:H6	1.66	0.60
36:DA:553:G:H2'	36:DA:554:U:O4'	2.02	0.60
36:DA:810:U:OP1	36:DA:1253:A:N7	2.34	0.60
36:DA:990:A:H5'	36:DA:1157:G:H5''	1.83	0.60
36:DA:1438:U:H2'	36:DA:1439:A:C8	2.36	0.60
36:DA:1496:A:H8	36:DA:1577:C:O2'	1.83	0.60
36:DA:1787:A:H2'	36:DA:1788:C:C6	2.37	0.60
36:DA:1866:C:H2'	36:DA:1876:A:O4'	2.01	0.60
36:DA:2619:C:O2'	36:DA:2620:C:H5'	2.02	0.60
39:DD:48:ARG:HG3	39:DD:48:ARG:NH1	2.16	0.60
1:AA:864:A:H2	1:AA:917:G:N3	1.98	0.60
1:AA:1271:G:C5'	1:AA:1314:C:H5''	2.31	0.60
3:AC:40:ARG:NH2	3:AC:57:ILE:HD12	2.17	0.60
3:AC:206:GLU:O	3:AC:208:ILE:N	2.35	0.60
25:AZ:223:MET:HB2	25:AZ:241:ARG:O	2.01	0.60
25:AZ:385:ARG:HD3	63:AZ:502:KIR:C45	2.32	0.60
27:B1:23:LYS:HB3	27:B1:29:GLY:H	1.66	0.60
33:B7:18:PHE:H	33:B7:43:THR:HG21	1.66	0.60
36:BA:442:G:N3	41:BF:48:THR:HG21	2.17	0.60
36:BA:777:A:H2'	36:BA:778:G:C8	2.36	0.60
36:BA:1362:C:C2'	36:BA:1363:C:H5'	2.32	0.60
36:BA:1563:G:O2'	36:BA:1564:C:H5'	2.02	0.60
36:BA:1887:C:C3'	36:BA:1888:G:H5''	2.32	0.60
38:BC:98:GLU:O	38:BC:100:ILE:N	2.34	0.60
39:BD:9:TYR:CD2	39:BD:10:THR:HG22	2.37	0.60
41:BF:202:PHE:O	41:BF:206:ILE:HG12	2.02	0.60
42:BG:149:VAL:HG23	42:BG:149:VAL:O	2.01	0.60
47:BO:63:VAL:HG23	47:BO:64:ARG:HG3	1.83	0.60
48:BP:68:GLN:HA	48:BP:68:GLN:NE2	2.15	0.60
52:BT:16:ARG:HB2	52:BT:19:LEU:HD11	1.84	0.60
52:BT:70:VAL:HG12	52:BT:71:GLY:N	2.15	0.60
1:CA:343:U:O2	1:CA:347:G:N1	2.34	0.60
1:CA:452:A:HO2'	1:CA:453:A:H8	1.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:556:C:O2'	1:CA:557:G:H5'	2.02	0.60
4:CD:112:VAL:HG12	4:CD:116:GLN:OE1	2.01	0.60
13:CM:21:TYR:C	13:CM:22:ILE:HD12	2.21	0.60
18:CR:53:ARG:O	18:CR:55:ARG:N	2.33	0.60
19:CS:43:GLU:C	19:CS:45:VAL:N	2.54	0.60
26:D0:48:GLY:H	26:D0:51:VAL:HB	1.67	0.60
34:D8:23:VAL:HG13	34:D8:47:LYS:O	2.02	0.60
36:DA:6:A:H2'	36:DA:7:G:C8	2.37	0.60
36:DA:20:C:H2'	36:DA:21:A:C8	2.36	0.60
36:DA:223:A:N7	36:DA:422:A:H1'	2.17	0.60
36:DA:307:G:H22	36:DA:310:A:P	2.24	0.60
36:DA:1702:G:H2'	36:DA:1703:G:O4'	2.01	0.60
36:DA:1865:G:H5'	36:DA:1866:C:P	2.41	0.60
36:DA:2084:C:H2'	36:DA:2085:C:C6	2.37	0.60
36:DA:2789:C:H1'	36:DA:2892:A:C2	2.37	0.60
38:DC:47:LEU:HD11	38:DC:171:ILE:HG22	1.83	0.60
40:DE:36:ARG:HH22	40:DE:88:GLY:HA2	1.64	0.60
40:DE:178:GLU:HG3	40:DE:179:GLU:N	2.16	0.60
40:DE:201:THR:HG23	40:DE:203:LYS:H	1.67	0.60
41:DF:28:ILE:HG22	41:DF:116:ASP:HB2	1.83	0.60
41:DF:81:PRO:O	41:DF:82:ILE:C	2.40	0.60
42:DG:39:ILE:CG2	42:DG:157:ILE:HG12	2.31	0.60
48:DP:68:GLN:NE2	48:DP:68:GLN:HA	2.16	0.60
49:DQ:24:GLY:O	49:DQ:26:TYR:N	2.35	0.60
50:DR:29:LEU:O	50:DR:30:THR:HB	2.02	0.60
53:DU:95:LEU:CD1	54:DV:11:GLN:HG3	2.32	0.60
1:AA:106:C:C2'	1:AA:107:G:H5'	2.32	0.60
1:AA:119:A:C4'	1:AA:120:A:O5'	2.49	0.60
1:AA:642:A:H2'	1:AA:643:C:C6	2.36	0.60
1:AA:676:A:H1'	11:AK:115:PRO:HB3	1.84	0.60
1:AA:781:A:C2'	1:AA:782:A:H5'	2.30	0.60
1:AA:880:C:H2'	1:AA:881:G:H8	1.66	0.60
1:AA:1250:A:H2'	1:AA:1251:A:H8	1.67	0.60
1:AA:1498:U:C4	23:AX:20:U:H5'	2.37	0.60
3:AC:18:TRP:HE1	14:AN:55:GLY:N	1.99	0.60
3:AC:72:LYS:O	3:AC:74:GLY:N	2.35	0.60
4:AD:11:LEU:N	4:AD:11:LEU:HD23	2.17	0.60
8:AH:14:ARG:HH11	8:AH:14:ARG:HB2	1.66	0.60
9:AI:77:ILE:HG23	9:AI:81:ILE:HD11	1.83	0.60
15:AO:7:GLU:O	15:AO:10:LYS:HB3	2.02	0.60
27:B1:72:GLU:O	27:B1:73:LEU:HG	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B2:50:ILE:HD12	28:B2:50:ILE:N	2.17	0.60
29:B3:56:VAL:O	29:B3:57:GLU:HB2	2.01	0.60
30:B4:22:ILE:HD12	30:B4:22:ILE:N	2.10	0.60
36:BA:496:G:H1'	55:BW:61:ASN:HD22	1.65	0.60
36:BA:779:U:H2'	36:BA:780:G:C8	2.36	0.60
36:BA:1009:A:N3	36:BA:1154:G:H5'	2.17	0.60
36:BA:1971:A:C2	39:BD:240:ALA:HA	2.37	0.60
36:BA:2073:C:O2'	36:BA:2074:U:H5'	2.02	0.60
36:BA:2630:G:H1'	36:BA:2894:G:H1'	1.83	0.60
41:BF:17:ARG:HG3	41:BF:17:ARG:HH11	1.67	0.60
41:BF:78:ILE:O	41:BF:80:ALA:N	2.35	0.60
41:BF:157:VAL:CG2	41:BF:194:MET:HG2	2.31	0.60
41:BF:168:ARG:HG2	41:BF:169:ASN:H	1.67	0.60
41:BF:185:ASP:HA	41:BF:188:ARG:HD3	1.84	0.60
43:BH:66:GLY:HA2	43:BH:69:ARG:HE	1.66	0.60
49:BQ:34:LEU:CD1	49:BQ:129:THR:HB	2.31	0.60
49:BQ:39:PRO:CD	49:BQ:99:PRO:HG2	2.31	0.60
51:BS:35:ILE:O	51:BS:35:ILE:HG12	2.01	0.60
52:BT:10:VAL:C	52:BT:12:SER:N	2.52	0.60
1:CA:540:G:H2'	1:CA:541:G:H8	1.66	0.60
1:CA:577:G:H1'	1:CA:816:A:C4	2.37	0.60
1:CA:840:C:H5'	1:CA:841:U:OP1	2.02	0.60
1:CA:1060:C:H4'	10:CJ:52:GLY:N	2.17	0.60
2:CB:16:HIS:HB3	2:CB:210:SER:HA	1.84	0.60
7:CG:31:MET:HG2	7:CG:32:ARG:H	1.64	0.60
7:CG:64:GLN:NE2	7:CG:68:ASN:ND2	2.49	0.60
24:CY:6:U:C3'	24:CY:7:A:H5''	2.32	0.60
25:CZ:285:ASN:HD22	25:CZ:285:ASN:N	2.00	0.60
28:D2:22:GLU:HG2	28:D2:64:LEU:HD11	1.84	0.60
28:D2:67:LYS:C	28:D2:69:ARG:H	2.04	0.60
36:DA:1654:A:C2	40:DE:113:PHE:CD2	2.90	0.60
36:DA:1798:U:H5'	39:DD:259:THR:HB	1.84	0.60
36:DA:1855:G:H2'	36:DA:1856:G:H8	1.64	0.60
36:DA:2442:C:H2'	36:DA:2442:C:O2	2.00	0.60
36:DA:2589:A:H2'	36:DA:2590:A:H8	1.67	0.60
36:DA:2677:G:H2'	36:DA:2678:C:H6	1.66	0.60
39:DD:48:ARG:HG3	39:DD:48:ARG:HH11	1.66	0.60
39:DD:147:LEU:CD1	39:DD:183:ARG:NH1	2.42	0.60
41:DF:101:LEU:CD1	41:DF:102:PRO:HD2	2.31	0.60
48:DP:16:ARG:HB2	48:DP:16:ARG:CZ	2.31	0.60
48:DP:63:PRO:O	48:DP:64:LYS:C	2.40	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:39:PRO:HG3	49:DQ:99:PRO:CD	2.31	0.60
52:DT:42:ILE:HG13	52:DT:42:ILE:O	2.02	0.60
57:DY:6:HIS:N	57:DY:6:HIS:CD2	2.69	0.60
1:AA:186:C:O3'	20:AT:82:SER:HB3	2.01	0.59
1:AA:512:U:H2'	1:AA:513:C:C6	2.36	0.59
1:AA:630:G:H2'	1:AA:631:G:H5'	1.84	0.59
1:AA:639:G:H2'	1:AA:640:A:H8	1.67	0.59
1:AA:1298:C:N4	7:AG:114:ARG:HD2	2.17	0.59
1:AA:1356:G:O2'	1:AA:1357:A:H5'	2.01	0.59
1:AA:1472:U:O2'	1:AA:1473:A:H5'	2.01	0.59
3:AC:35:GLU:OE1	3:AC:97:LYS:HE2	2.02	0.59
3:AC:114:PRO:O	3:AC:118:GLN:HG3	2.02	0.59
4:AD:121:VAL:HG12	4:AD:134:ASP:C	2.22	0.59
7:AG:31:MET:CG	7:AG:32:ARG:H	2.15	0.59
10:AJ:24:VAL:O	10:AJ:27:ALA:N	2.35	0.59
12:AL:90:VAL:O	12:AL:92:ASP:N	2.35	0.59
16:AP:41:PRO:O	16:AP:43:LYS:HG3	2.02	0.59
19:AS:49:ILE:O	19:AS:60:VAL:HG13	2.02	0.59
30:B4:9:LEU:HG	42:BG:98:ARG:NH1	2.17	0.59
34:B8:28:GLY:CA	34:B8:32:LEU:HD23	2.30	0.59
35:B9:29:ASN:ND2	35:B9:29:ASN:O	2.34	0.59
36:BA:957:A:N1	36:BA:2458:G:H4'	2.17	0.59
36:BA:1403:C:H5''	36:BA:1471:A:H1'	1.84	0.59
36:BA:2394:C:OP1	48:BP:63:PRO:HD2	2.01	0.59
37:BB:79:C:O2'	37:BB:80:U:H5'	2.02	0.59
40:BE:100:GLU:O	40:BE:172:VAL:HG23	2.01	0.59
41:BF:80:ALA:HB1	41:BF:81:PRO:HD2	1.82	0.59
43:BH:118:PRO:CG	43:BH:121:ILE:HB	2.32	0.59
48:BP:6:LEU:H	48:BP:6:LEU:HD23	1.67	0.59
57:BY:7:VAL:HG21	57:BY:8:LYS:HZ2	1.67	0.59
1:CA:594:G:H2'	1:CA:595:G:H5'	1.84	0.59
1:CA:697:U:H2'	1:CA:698:G:H5'	1.84	0.59
1:CA:1155:G:O2'	1:CA:1156:G:H5'	2.01	0.59
2:CB:167:PRO:HG2	2:CB:192:SER:CB	2.31	0.59
7:CG:5:ARG:O	7:CG:7:ALA:N	2.35	0.59
10:CJ:17:ASP:CG	10:CJ:70:ARG:HH21	2.05	0.59
25:CZ:139:ASP:OD2	25:CZ:177:LEU:HD21	2.01	0.59
33:D7:13:ALA:O	33:D7:17:GLY:HA3	2.01	0.59
36:DA:440:G:N2	41:DF:46:ARG:NH2	2.50	0.59
36:DA:483:A:H1'	57:DY:60:PHE:HE1	1.66	0.59
36:DA:1343:G:C2'	36:DA:1344:G:H5'	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1794:U:O4'	36:DA:1900:A:C2	2.55	0.59
36:DA:1803:A:O3'	39:DD:259:THR:CG2	2.50	0.59
36:DA:2777:G:C5'	36:DA:2778:A:H5'	2.31	0.59
39:DD:18:VAL:HG23	39:DD:211:ARG:NH2	2.17	0.59
1:AA:968:A:O2'	1:AA:969:A:OP1	2.17	0.59
1:AA:1088:G:H2'	1:AA:1089:G:H8	1.66	0.59
5:AE:44:GLY:O	5:AE:58:ALA:HB1	2.02	0.59
6:AF:10:LEU:HD13	6:AF:59:TYR:HD2	1.67	0.59
11:AK:72:ALA:O	11:AK:75:TYR:HB2	2.02	0.59
12:AL:119:LYS:O	12:AL:120:TYR:CB	2.50	0.59
13:AM:116:THR:HG22	13:AM:118:ALA:H	1.66	0.59
25:AZ:32:THR:O	25:AZ:33:TYR:C	2.38	0.59
27:B1:50:ARG:CG	27:B1:59:THR:HG22	2.29	0.59
35:B9:12:ASP:C	35:B9:14:CYS:H	2.04	0.59
36:BA:678:C:H2'	36:BA:679:C:H6	1.66	0.59
36:BA:1340:U:O2	36:BA:1603:A:C8	2.55	0.59
36:BA:1345:C:O2'	36:BA:1346:G:H5'	2.02	0.59
36:BA:1438:U:H2'	36:BA:1439:A:H8	1.68	0.59
36:BA:1963:U:H4'	36:BA:1964:G:OP1	2.01	0.59
36:BA:2008:C:O2'	36:BA:2009:G:H5'	2.02	0.59
36:BA:2393:A:C2'	36:BA:2394:C:H5'	2.32	0.59
36:BA:2476:A:H2	36:BA:2477:C:C6	2.20	0.59
37:BB:10:C:O2'	37:BB:11:C:H5'	2.03	0.59
38:BC:75:LEU:HG	38:BC:112:ALA:O	2.02	0.59
39:BD:136:ILE:N	39:BD:136:ILE:CD1	2.65	0.59
40:BE:116:VAL:HG23	40:BE:120:TRP:HB2	1.84	0.59
41:BF:51:THR:HG21	41:BF:91:GLY:CA	2.30	0.59
42:BG:7:LEU:HB2	42:BG:104:GLU:OE2	2.02	0.59
42:BG:117:PHE:HZ	42:BG:179:PRO:CB	2.13	0.59
52:BT:82:LEU:H	52:BT:82:LEU:CD1	2.03	0.59
57:BY:46:LYS:HB2	57:BY:62:GLU:CD	2.22	0.59
1:CA:186:C:O3'	20:CT:82:SER:HB3	2.02	0.59
1:CA:242:C:H2'	1:CA:243:A:H5'	1.84	0.59
1:CA:295:C:O2'	1:CA:296:U:H5'	2.02	0.59
1:CA:880:C:H2'	1:CA:881:G:H8	1.66	0.59
1:CA:1126:U:O2'	1:CA:1127:G:H5'	2.02	0.59
1:CA:1316:G:C3'	1:CA:1317:C:H5''	2.33	0.59
1:CA:1507:A:H5''	1:CA:1507:A:C8	2.36	0.59
2:CB:87:ARG:NH2	2:CB:233:SER:N	2.49	0.59
3:CC:18:TRP:HE1	14:CN:55:GLY:N	2.00	0.59
3:CC:90:GLU:O	3:CC:93:LYS:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:120:VAL:HG12	3:CC:121:ALA:N	2.17	0.59
4:CD:138:TYR:HD2	4:CD:139:ARG:N	1.99	0.59
18:CR:66:LEU:HG	18:CR:70:ILE:CD1	2.32	0.59
36:DA:426:C:O2'	36:DA:427:U:H5'	2.02	0.59
36:DA:777:A:H2'	36:DA:778:G:C8	2.36	0.59
36:DA:1304:C:O2'	36:DA:1305:C:H5'	2.02	0.59
36:DA:1386:C:H6	36:DA:1386:C:H3'	1.67	0.59
36:DA:1639:U:H2'	36:DA:1640:C:C5'	2.32	0.59
36:DA:1669:A:H2'	36:DA:1670:C:H5'	1.83	0.59
36:DA:2051:A:H5'	36:DA:2578:G:O4'	2.03	0.59
36:DA:2068:U:N3	36:DA:2430:A:C2	2.57	0.59
36:DA:2331:G:N2	36:DA:2385:C:C4	2.70	0.59
36:DA:2699:C:O2'	36:DA:2700:C:H5'	2.02	0.59
36:DA:2786:U:O2'	40:DE:62:PRO:HA	2.02	0.59
38:DC:45:ALA:O	38:DC:171:ILE:HG22	2.02	0.59
39:DD:35:LYS:HG2	39:DD:63:ARG:CG	2.30	0.59
39:DD:35:LYS:N	39:DD:36:PRO:HD2	2.16	0.59
40:DE:31:CYS:CB	40:DE:49:LEU:HD12	2.32	0.59
48:DP:126:VAL:HG22	48:DP:145:PRO:CB	2.32	0.59
50:DR:21:TYR:HB3	50:DR:47:PHE:CE2	2.37	0.59
52:DT:13:ARG:HH22	52:DT:15:VAL:HG11	1.67	0.59
54:DV:99:ILE:HD13	54:DV:99:ILE:N	2.17	0.59
1:AA:691:G:H2'	1:AA:692:U:C6	2.38	0.59
1:AA:1060:C:H5''	10:AJ:51:ARG:HB3	1.83	0.59
1:AA:1298:C:C4	7:AG:114:ARG:HD2	2.38	0.59
2:AB:96:ARG:O	2:AB:97:TRP:C	2.40	0.59
5:AE:64:ARG:CZ	5:AE:64:ARG:HB2	2.33	0.59
7:AG:42:ILE:HG23	7:AG:117:ALA:CA	2.30	0.59
8:AH:63:LEU:H	8:AH:63:LEU:HD22	1.66	0.59
17:AQ:29:HIS:CG	17:AQ:30:PRO:HD2	2.37	0.59
17:AQ:47:PRO:HG2	17:AQ:48:GLU:H	1.67	0.59
20:AT:57:ARG:HH12	20:AT:103:GLY:H	1.49	0.59
34:B8:28:GLY:O	34:B8:32:LEU:HD23	2.01	0.59
36:BA:271(D):G:H2'	36:BA:271(E):U:O4'	2.02	0.59
36:BA:428:A:H3'	36:BA:429:A:H8	1.67	0.59
36:BA:968:G:H2'	36:BA:969:U:H6	1.65	0.59
36:BA:1526:G:O2'	36:BA:1527:G:H5'	2.01	0.59
36:BA:1784:A:H4'	36:BA:1785:A:O5'	2.02	0.59
36:BA:1805:U:H4'	39:BD:250:TRP:CZ2	2.37	0.59
36:BA:1899:G:H21	36:BA:1902:C:H41	1.48	0.59
36:BA:2626:C:H2'	36:BA:2627:G:C8	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:69:LYS:HE2	40:BE:69:LYS:N	2.17	0.59
41:BF:6:VAL:HG12	41:BF:7:TYR:N	2.12	0.59
41:BF:20:LEU:H	41:BF:24:LEU:HD21	1.68	0.59
42:BG:57:ALA:HB2	42:BG:90:LEU:HD21	1.84	0.59
42:BG:139:LEU:HD22	42:BG:146:TYR:HB2	1.85	0.59
51:BS:94:TYR:O	51:BS:95:HIS:CB	2.48	0.59
54:BV:3:ALA:CB	54:BV:14:VAL:HG23	2.32	0.59
1:CA:80:G:C2	1:CA:90:U:H5'	2.38	0.59
1:CA:102:G:O2'	1:CA:103:C:H5'	2.01	0.59
1:CA:769:G:C2'	1:CA:770:C:H5'	2.32	0.59
1:CA:1046:A:H3'	1:CA:1047:G:H8	1.67	0.59
1:CA:1369:C:H2'	1:CA:1370:G:O4'	2.02	0.59
2:CB:7:VAL:CA	2:CB:11:LEU:HG	2.32	0.59
3:CC:206:GLU:O	3:CC:208:ILE:N	2.35	0.59
4:CD:67:ILE:HG22	4:CD:68:TYR:CD1	2.36	0.59
5:CE:37:ARG:O	5:CE:38:GLN:HG2	2.03	0.59
8:CH:134:ILE:HG22	8:CH:135:CYS:SG	2.42	0.59
14:CN:3:ARG:O	14:CN:3:ARG:HG2	2.01	0.59
17:CQ:10:VAL:HG21	17:CQ:55:ASP:HB2	1.84	0.59
18:CR:69:THR:O	18:CR:70:ILE:C	2.41	0.59
20:CT:17:ARG:C	20:CT:19:SER:H	2.04	0.59
22:CW:8:U:O2'	22:CW:9:A:H5''	2.01	0.59
36:DA:34:C:H41	36:DA:447:A:N6	1.98	0.59
36:DA:669:G:C2	36:DA:801:G:C6	2.90	0.59
36:DA:916:G:O2'	36:DA:917:A:H5''	2.02	0.59
36:DA:1038:C:C2'	36:DA:1039:G:H5''	2.32	0.59
36:DA:1057:A:C2	36:DA:1058:G:H1'	2.37	0.59
36:DA:1132:A:H2'	36:DA:1133:U:H6	1.67	0.59
36:DA:1409:C:H2'	36:DA:1410:G:C8	2.36	0.59
36:DA:2476:A:H2	36:DA:2477:C:C6	2.21	0.59
36:DA:2781:A:H5'	36:DA:2782:G:H5'	1.84	0.59
38:DC:20:TYR:HB3	38:DC:24:GLU:HB3	1.85	0.59
38:DC:30:LYS:NZ	38:DC:30:LYS:HA	2.17	0.59
39:DD:9:TYR:CD2	39:DD:10:THR:HG22	2.37	0.59
39:DD:126:GLN:HG3	39:DD:129:ASN:ND2	2.18	0.59
40:DE:82:ARG:HG3	40:DE:82:ARG:NH1	2.15	0.59
42:DG:112:PRO:O	42:DG:114:ILE:N	2.35	0.59
43:DH:66:GLY:HA2	43:DH:69:ARG:HE	1.66	0.59
53:DU:92:ARG:NH2	54:DV:10:LYS:HA	2.17	0.59
55:DW:12:ILE:CB	55:DW:42:ARG:HH12	2.14	0.59
55:DW:95:ILE:O	55:DW:95:ILE:HG13	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DX:56:THR:HG22	56:DX:79:ALA:HB1	1.83	0.59
58:DZ:108:PRO:C	58:DZ:110:GLY:N	2.56	0.59
1:AA:449:C:H3'	1:AA:450:G:H8	1.68	0.59
1:AA:649:G:O2'	1:AA:650:G:H5'	2.03	0.59
1:AA:939:G:H1	1:AA:1344:C:H42	1.50	0.59
1:AA:1054:C:H6	1:AA:1196:U:C5	2.20	0.59
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.85	0.59
3:AC:15:THR:HG22	3:AC:16:ARG:N	2.18	0.59
4:AD:138:TYR:HD2	4:AD:139:ARG:N	2.00	0.59
7:AG:113:GLU:CB	7:AG:119:ARG:HG2	2.30	0.59
8:AH:2:LEU:HD22	8:AH:3:THR:N	2.16	0.59
8:AH:101:PRO:C	8:AH:102:ARG:HD3	2.23	0.59
12:AL:83:VAL:HG12	12:AL:84:LEU:H	1.66	0.59
25:AZ:311:THR:HG1	25:AZ:313:HIS:HE2	1.48	0.59
27:B1:45:ASN:HB3	27:B1:64:ALA:CB	2.28	0.59
27:B1:70:VAL:O	27:B1:73:LEU:HD12	2.03	0.59
36:BA:621:A:H2'	36:BA:622:G:C5'	2.32	0.59
36:BA:621:A:H2'	36:BA:622:G:H5'	1.85	0.59
36:BA:738:G:C2'	36:BA:739:G:H5'	2.32	0.59
36:BA:973:A:H5'	36:BA:1188:U:H1'	1.84	0.59
36:BA:1060:U:H1'	36:BA:1061:U:C5'	2.32	0.59
36:BA:1351:C:H2'	36:BA:1352:U:C6	2.38	0.59
36:BA:1503:U:C6	36:BA:1504:C:H5	2.21	0.59
36:BA:2189:U:H2'	36:BA:2190:G:O4'	2.02	0.59
36:BA:2311:A:C2	42:BG:80:PHE:HB3	2.37	0.59
36:BA:2312:U:H2'	36:BA:2313:C:C5'	2.32	0.59
37:BB:5:C:H2'	37:BB:6:C:H6	1.66	0.59
38:BC:30:LYS:HA	38:BC:30:LYS:NZ	2.17	0.59
39:BD:2:ALA:O	39:BD:3:VAL:O	2.21	0.59
41:BF:81:PRO:O	41:BF:82:ILE:C	2.40	0.59
44:BJ:114:UNK:O	44:BJ:115:UNK:CB	2.50	0.59
48:BP:16:ARG:HD3	48:BP:18:ARG:N	2.16	0.59
50:BR:45:ARG:O	50:BR:46:GLY:C	2.41	0.59
56:BX:18:TYR:HA	56:BX:21:PHE:CE1	2.38	0.59
1:CA:8:A:C5'	5:CE:120:THR:O	2.51	0.59
1:CA:824:C:H2'	1:CA:825:G:H8	1.66	0.59
1:CA:863:U:H2'	1:CA:864:A:H5''	1.84	0.59
1:CA:923:A:C5'	5:CE:21:ALA:HB2	2.31	0.59
1:CA:1324:A:C4'	1:CA:1362:C:H4'	2.32	0.59
1:CA:1403:C:O5'	1:CA:1403:C:C6	2.55	0.59
3:CC:173:VAL:N	3:CC:174:PRO:HD3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:109:ILE:CG2	8:CH:137:VAL:HB	2.33	0.59
11:CK:95:ILE:O	11:CK:98:LEU:N	2.35	0.59
15:CO:18:PHE:CD1	15:CO:18:PHE:O	2.56	0.59
20:CT:81:LYS:C	20:CT:83:ARG:H	2.06	0.59
25:CZ:356:PRO:O	25:CZ:357:PRO:C	2.40	0.59
36:DA:28:A:N6	36:DA:512:G:O2'	2.35	0.59
36:DA:47:C:C4	36:DA:48:G:N7	2.69	0.59
36:DA:554:U:H2'	36:DA:555:U:C6	2.37	0.59
36:DA:1138:G:C2	36:DA:1139:G:H1'	2.38	0.59
36:DA:1288:U:C2	36:DA:1327:C:O2	2.55	0.59
36:DA:1331:A:HO2'	36:DA:1332:G:H8	1.50	0.59
36:DA:1340:U:O2	36:DA:1603:A:C8	2.55	0.59
36:DA:1344:G:H4'	36:DA:1384:A:C5	2.37	0.59
36:DA:1847:A:N3	36:DA:1847:A:H2'	2.17	0.59
36:DA:1902:C:H5''	39:DD:246:PRO:CD	2.32	0.59
36:DA:2048:G:C2	36:DA:2621:A:C2	2.91	0.59
36:DA:2313:C:H5'	36:DA:2313:C:H6	1.67	0.59
37:DB:43:C:O2	42:DG:95:ARG:NE	2.32	0.59
38:DC:100:ILE:O	38:DC:104:LEU:HD23	2.02	0.59
39:DD:61:LEU:O	39:DD:63:ARG:NH1	2.35	0.59
40:DE:52:LEU:HB3	40:DE:76:ARG:H	1.67	0.59
40:DE:167:VAL:HG21	40:DE:187:ALA:O	2.01	0.59
43:DH:94:TYR:CE2	43:DH:152:ARG:HG2	2.37	0.59
50:DR:42:LYS:O	50:DR:45:ARG:N	2.27	0.59
52:DT:28:VAL:CG1	52:DT:46:GLU:HA	2.32	0.59
56:DX:11:PRO:HG2	56:DX:13:LEU:HG	1.83	0.59
1:AA:9:G:H5''	5:AE:122:GLU:OE1	2.01	0.59
1:AA:254:G:O2'	1:AA:255:G:H5'	2.02	0.59
1:AA:473:G:H5''	16:AP:81:ARG:NE	2.18	0.59
1:AA:784:C:H4'	36:BA:1837:C:OP1	2.03	0.59
1:AA:1200:C:O2'	1:AA:1201:A:P	2.60	0.59
1:AA:1237:C:C4'	1:AA:1334:G:N2	2.65	0.59
2:AB:7:VAL:C	2:AB:11:LEU:HG	2.23	0.59
2:AB:229:VAL:CG1	2:AB:230:VAL:N	2.65	0.59
11:AK:110:ASP:CB	18:AR:85:LEU:HD23	2.32	0.59
12:AL:37:CYS:O	12:AL:80:HIS:HA	2.02	0.59
13:AM:108:ARG:HH11	13:AM:108:ARG:CB	2.15	0.59
19:AS:29:ARG:HD2	19:AS:29:ARG:N	2.17	0.59
22:AW:17:C:H42	36:BA:2110:G:H21	1.46	0.59
25:AZ:139:ASP:OD2	25:AZ:177:LEU:HD21	2.03	0.59
32:B6:10:LEU:H	32:B6:10:LEU:HD22	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B7:38:GLY:O	36:BA:458:G:H3'	2.03	0.59
36:BA:472:A:H8	36:BA:472:A:H5'	1.67	0.59
36:BA:711:G:H1	36:BA:720:C:N4	1.98	0.59
36:BA:828:U:C5	36:BA:829:A:N6	2.70	0.59
36:BA:1747(A):G:H2'	36:BA:1748:G:H5''	1.84	0.59
36:BA:1783:A:N1	36:BA:2587:A:C2	2.71	0.59
36:BA:2312:U:O2'	36:BA:2313:C:H5''	2.02	0.59
36:BA:2781:A:H5'	36:BA:2782:G:H5'	1.82	0.59
37:BB:65:C:H2'	37:BB:109:C:N4	2.16	0.59
41:BF:117:ARG:HG2	41:BF:192:LEU:CD1	2.33	0.59
50:BR:28:LEU:HD23	50:BR:28:LEU:C	2.22	0.59
50:BR:99:LYS:H	50:BR:99:LYS:CD	2.02	0.59
57:BY:37:VAL:CG2	57:BY:38:ILE:H	2.09	0.59
1:CA:190:U:O2'	1:CA:191:G:H5'	2.01	0.59
1:CA:246:A:O3'	1:CA:247:G:H4'	2.02	0.59
1:CA:585:G:H2'	1:CA:586:C:C6	2.38	0.59
1:CA:1008:C:H42	1:CA:1021:G:H1	1.50	0.59
1:CA:1495:U:O2'	36:DA:1919:A:N1	2.36	0.59
2:CB:130:ARG:NH2	2:CB:131:PRO:HD2	2.18	0.59
5:CE:64:ARG:HB2	5:CE:64:ARG:CZ	2.32	0.59
8:CH:14:ARG:HH11	8:CH:14:ARG:HB2	1.68	0.59
8:CH:63:LEU:HD22	8:CH:63:LEU:N	2.16	0.59
11:CK:13:GLN:HG2	11:CK:75:TYR:O	2.02	0.59
15:CO:82:ILE:HD13	15:CO:83:GLU:N	2.17	0.59
19:CS:11:VAL:HG13	19:CS:11:VAL:O	2.02	0.59
24:CY:54:5MU:C2'	24:CY:55:PSU:H5'	2.31	0.59
26:D0:24:LYS:HD2	36:DA:2355:C:H4'	1.84	0.59
27:D1:50:ARG:HH22	36:DA:2200:C:H5'	1.65	0.59
36:DA:7:G:N2	36:DA:8:A:H1'	2.17	0.59
36:DA:568:U:C6	36:DA:570:G:OP2	2.56	0.59
36:DA:1011:G:O2'	36:DA:1013:C:H5''	2.03	0.59
36:DA:1278:A:C2	36:DA:1293:C:N3	2.70	0.59
36:DA:1658:C:C2	36:DA:1659:U:C5	2.90	0.59
36:DA:2529:G:H5''	36:DA:2530:A:H5''	1.84	0.59
36:DA:2540:C:O2'	36:DA:2541:A:H5'	2.03	0.59
36:DA:2630:G:H1'	36:DA:2894:G:H1'	1.84	0.59
38:DC:58:VAL:HG22	38:DC:201:PRO:CG	2.33	0.59
39:DD:24:ILE:CG1	39:DD:25:THR:N	2.64	0.59
40:DE:47:VAL:HG21	40:DE:86:PRO:CD	2.32	0.59
41:DF:185:ASP:HA	41:DF:188:ARG:HD3	1.85	0.59
43:DH:12:PRO:O	43:DH:15:VAL:HG22	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:33:LEU:HD21	43:DH:136:ILE:HG22	1.83	0.59
43:DH:149:ARG:HD3	43:DH:164:TYR:CD1	2.37	0.59
43:DH:155:SER:O	43:DH:157:TYR:N	2.36	0.59
48:DP:52:GLU:HA	48:DP:52:GLU:OE1	2.03	0.59
54:DV:64:HIS:ND1	54:DV:92:THR:HG22	2.17	0.59
55:DW:12:ILE:CD1	55:DW:42:ARG:NH1	2.62	0.59
1:AA:200:G:H1	1:AA:217:C:N4	2.01	0.59
1:AA:225:C:H2'	1:AA:226:G:C8	2.37	0.59
1:AA:573:A:OP2	1:AA:574:A:OP2	2.21	0.59
1:AA:665:A:H2'	1:AA:725:G:H22	1.66	0.59
1:AA:673:G:H2'	1:AA:674:G:C8	2.38	0.59
1:AA:972:C:O3'	10:AJ:57:LYS:HG3	2.02	0.59
1:AA:1442(A):G:H3'	52:BT:118:ARG:HH11	1.67	0.59
10:AJ:50:ILE:HD11	14:AN:41:ARG:HD2	1.85	0.59
25:AZ:285:ASN:N	25:AZ:285:ASN:HD22	2.00	0.59
25:AZ:315:LYS:HB3	25:AZ:404:LEU:HB2	1.84	0.59
28:B2:12:GLU:O	28:B2:16:LEU:HG	2.02	0.59
36:BA:271(D):G:O2'	36:BA:271(E):U:H5'	2.02	0.59
36:BA:792:G:H2'	36:BA:2440:C:O2	2.03	0.59
36:BA:1091:G:H2'	36:BA:1092:C:H6	1.67	0.59
36:BA:2292:C:O2'	36:BA:2293:C:H5'	2.02	0.59
36:BA:2562:U:C2'	36:BA:2563:U:H5'	2.33	0.59
36:BA:2582:G:N3	36:BA:2582:G:H2'	2.17	0.59
36:BA:2786:U:O2'	40:BE:62:PRO:HA	2.02	0.59
38:BC:21:THR:HB	38:BC:228:SER:HB2	1.85	0.59
38:BC:83:ILE:HD11	38:BC:97:GLU:OE2	2.02	0.59
39:BD:85:ASP:OD2	39:BD:88:ARG:NH1	2.36	0.59
40:BE:52:LEU:HB3	40:BE:76:ARG:H	1.68	0.59
46:BN:46:VAL:CG1	46:BN:48:MET:HG3	2.33	0.59
48:BP:115:LEU:HG	48:BP:116:GLY:N	2.17	0.59
49:BQ:42:ILE:C	49:BQ:94:VAL:HG12	2.23	0.59
50:BR:116:LEU:O	50:BR:117:VAL:HG12	2.02	0.59
51:BS:89:ARG:O	51:BS:92:TYR:HB3	2.01	0.59
51:BS:102:ALA:O	51:BS:103:GLU:HG2	2.02	0.59
52:BT:64:ARG:HH11	52:BT:102:ILE:HD11	1.68	0.59
52:BT:113:LYS:C	52:BT:114:LEU:HD23	2.23	0.59
56:BX:60:ARG:HA	56:BX:75:ASP:CG	2.23	0.59
58:BZ:28:MET:SD	58:BZ:35:ARG:O	2.60	0.59
58:BZ:118:GLN:NE2	58:BZ:120:ILE:HD11	2.17	0.59
58:BZ:139:VAL:HG12	58:BZ:140:ASP:N	2.12	0.59
1:CA:116:A:H2'	1:CA:117:G:O4'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:165:C:O2'	1:CA:166:G:H5'	2.03	0.59
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.38	0.59
1:CA:601:C:H2'	1:CA:602:A:C8	2.37	0.59
1:CA:829:G:O2'	1:CA:830:G:H5'	2.02	0.59
1:CA:973:G:H3'	1:CA:974:A:H5''	1.82	0.59
1:CA:1081:G:H2'	1:CA:1082:G:H8	1.68	0.59
1:CA:1207:G:H2'	1:CA:1208:C:H6	1.68	0.59
3:CC:86:VAL:O	3:CC:89:GLU:HB3	2.03	0.59
3:CC:147:LYS:O	3:CC:172:ARG:HB2	2.02	0.59
4:CD:95:GLY:O	4:CD:98:GLU:N	2.32	0.59
4:CD:128:VAL:O	4:CD:129:ASN:C	2.41	0.59
5:CE:68:GLU:O	5:CE:68:GLU:HG3	2.02	0.59
7:CG:138:LYS:O	7:CG:142:GLU:HG3	2.03	0.59
9:CI:53:VAL:HG11	9:CI:92:TYR:CE2	2.38	0.59
12:CL:32:PHE:HB3	12:CL:84:LEU:CD2	2.32	0.59
12:CL:111:LYS:O	12:CL:112:ASP:HB2	2.02	0.59
36:DA:428:A:H3'	36:DA:429:A:C8	2.38	0.59
36:DA:645:C:H3'	36:DA:645:C:O2	2.03	0.59
36:DA:979:G:H21	36:DA:985:C:H42	1.50	0.59
36:DA:1342:A:OP2	36:DA:1602:U:O4	2.21	0.59
36:DA:1991:U:C2'	36:DA:1992:G:H5''	2.31	0.59
36:DA:2073:C:O2'	36:DA:2074:U:H5'	2.02	0.59
36:DA:2219:G:C2'	36:DA:2220:G:H5'	2.32	0.59
36:DA:2675:A:H5'	47:DO:31:LYS:HZ2	1.67	0.59
36:DA:2762:G:H8	36:DA:2762:G:C5'	2.15	0.59
46:DN:3:THR:CG2	46:DN:4:TYR:H	2.13	0.59
46:DN:6:PRO:O	46:DN:7:LYS:O	2.20	0.59
46:DN:36:GLY:H	46:DN:49:GLY:HA2	1.66	0.59
48:DP:91:PHE:N	48:DP:91:PHE:CD1	2.70	0.59
48:DP:101:VAL:C	48:DP:103:ALA:H	2.05	0.59
50:DR:14:SER:HA	50:DR:17:ARG:NH1	2.18	0.59
52:DT:13:ARG:NE	52:DT:13:ARG:CA	2.65	0.59
55:DW:82:LEU:HB3	55:DW:84:ARG:NH1	2.17	0.59
56:DX:65:ARG:O	56:DX:66:LEU:HB2	2.02	0.59
57:DY:10:GLY:CA	57:DY:27:VAL:HG13	2.32	0.59
58:DZ:91:LEU:N	58:DZ:91:LEU:HD23	2.17	0.59
1:AA:9:G:H1	1:AA:25:C:H42	1.49	0.59
1:AA:1070:U:H2'	1:AA:1071:C:C6	2.33	0.59
3:AC:120:VAL:CG1	3:AC:121:ALA:N	2.66	0.59
4:AD:17:VAL:HG21	4:AD:63:LYS:NZ	2.17	0.59
5:AE:150:ARG:HH11	5:AE:150:ARG:CB	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:2:LEU:HD22	8:AH:3:THR:H	1.66	0.59
8:AH:45:ILE:HG21	8:AH:61:VAL:CG1	2.32	0.59
9:AI:48:GLU:HB3	9:AI:101:PHE:CE2	2.38	0.59
13:AM:89:GLY:C	13:AM:90:LEU:O	2.40	0.59
19:AS:6:LYS:HG2	19:AS:7:LYS:CE	2.30	0.59
24:AY:24:G:H2'	24:AY:25:C:C6	2.37	0.59
25:AZ:19:HIS:HA	25:AZ:115:GLN:HB2	1.83	0.59
25:AZ:188:THR:HG23	25:AZ:192:GLU:OE2	2.02	0.59
25:AZ:195:TRP:O	25:AZ:199:ILE:HG12	2.02	0.59
29:B3:3:ARG:HB2	29:B3:59:VAL:O	2.02	0.59
36:BA:183:C:H5'	36:BA:433:C:H4'	1.83	0.59
36:BA:531:C:C5	36:BA:2035:G:C2	2.91	0.59
36:BA:586:A:H5'	41:BF:89:VAL:HG21	1.84	0.59
36:BA:763:G:C4	36:BA:765:G:C8	2.91	0.59
36:BA:1099:G:H8	36:BA:1099:G:O5'	1.86	0.59
36:BA:1141:U:C5	46:BN:64:GLY:HA3	2.38	0.59
36:BA:1244:G:H4'	48:BP:11:GLY:HA2	1.84	0.59
36:BA:1386:C:H6	36:BA:1386:C:H3'	1.66	0.59
36:BA:1496:A:H8	36:BA:1577:C:O2'	1.84	0.59
36:BA:1541:G:H4'	36:BA:1542:A:O5'	2.03	0.59
36:BA:1573:G:H2'	36:BA:1574:C:H5'	1.83	0.59
36:BA:1651:G:H4'	50:BR:39:PRO:HG2	1.85	0.59
36:BA:1892:C:H2'	36:BA:1893:C:C6	2.38	0.59
36:BA:2012:G:H4'	55:BW:96:ILE:CD1	2.18	0.59
36:BA:2337:G:H2'	36:BA:2338:G:C8	2.37	0.59
36:BA:2444:G:OP1	41:BF:68:LYS:HE3	2.02	0.59
36:BA:2494:G:O2'	49:BQ:80:GLU:HA	2.01	0.59
36:BA:2777:G:H4'	36:BA:2778:A:H5'	1.84	0.59
37:BB:15:A:H1'	37:BB:110:G:C5	2.38	0.59
42:BG:68:PRO:HG3	42:BG:92:VAL:HB	1.83	0.59
43:BH:67:LEU:C	43:BH:71:LEU:HG	2.23	0.59
50:BR:59:ASP:O	50:BR:61:HIS:N	2.36	0.59
58:BZ:117:LEU:HD12	58:BZ:173:ALA:O	2.02	0.59
1:CA:151:A:H2'	1:CA:152:A:H5'	1.83	0.59
1:CA:1312:G:H2'	1:CA:1313:U:C6	2.38	0.59
1:CA:1426:C:H2'	1:CA:1427:U:C6	2.37	0.59
5:CE:145:LYS:O	5:CE:148:VAL:HB	2.03	0.59
25:CZ:221:PHE:O	25:CZ:222:LEU:HB2	2.02	0.59
28:D2:47:ASN:HD21	36:DA:94(A):G:H21	1.48	0.59
36:DA:45:C:H42	36:DA:179:G:H1	1.51	0.59
36:DA:149:A:C2	36:DA:150:C:C2	2.91	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:483:A:O3'	57:DY:49:VAL:HG22	2.03	0.59
36:DA:588:U:H1'	41:DF:90:PHE:CG	2.36	0.59
36:DA:1771:C:C4	36:DA:1772:G:N7	2.70	0.59
36:DA:1882:C:H5'	36:DA:1883:G:OP2	2.03	0.59
36:DA:2062:A:O2'	36:DA:2063:C:H5'	2.02	0.59
36:DA:2810:A:C8	36:DA:2811:G:H1'	2.38	0.59
37:DB:78:A:C6	37:DB:100:A:C8	2.90	0.59
41:DF:171:PRO:C	41:DF:173:VAL:H	2.05	0.59
42:DG:5:VAL:CG1	42:DG:6:ALA:N	2.66	0.59
42:DG:144:ILE:HG23	42:DG:144:ILE:O	2.03	0.59
42:DG:173:LEU:HD22	42:DG:178:PHE:CZ	2.37	0.59
49:DQ:135:ASP:O	49:DQ:138:ASP:OD2	2.19	0.59
51:DS:24:LEU:HB3	51:DS:85:VAL:HG12	1.85	0.59
51:DS:94:TYR:O	51:DS:95:HIS:CB	2.49	0.59
51:DS:102:ALA:O	51:DS:103:GLU:HG2	2.02	0.59
57:DY:39:VAL:CG1	57:DY:40:GLU:H	2.09	0.59
1:AA:1468:A:H2'	1:AA:1469:G:C1'	2.31	0.59
3:AC:53:ALA:HB2	3:AC:115:LEU:CD2	2.32	0.59
3:AC:53:ALA:HB2	3:AC:115:LEU:CG	2.33	0.59
3:AC:64:VAL:HG12	3:AC:66:VAL:HG23	1.84	0.59
4:AD:67:ILE:HG22	4:AD:68:TYR:CD1	2.37	0.59
7:AG:100:ALA:O	7:AG:101:LEU:C	2.41	0.59
10:AJ:17:ASP:CG	10:AJ:70:ARG:HH21	2.05	0.59
11:AK:95:ILE:O	11:AK:98:LEU:N	2.35	0.59
11:AK:124:LYS:NZ	11:AK:124:LYS:CB	2.66	0.59
16:AP:20:VAL:HA	16:AP:36:ILE:CG1	2.33	0.59
20:AT:8:ARG:HG3	20:AT:8:ARG:HH11	1.68	0.59
26:B0:55:ARG:C	26:B0:57:PHE:H	2.04	0.59
28:B2:10:LEU:CD2	28:B2:14:ARG:HG3	2.33	0.59
28:B2:54:LYS:O	28:B2:57:ILE:HG12	2.03	0.59
35:B9:10:ILE:O	35:B9:11:CYS:SG	2.60	0.59
36:BA:28:A:N6	36:BA:512:G:O2'	2.36	0.59
36:BA:47:C:C4	36:BA:48:G:N7	2.71	0.59
36:BA:996:A:H1'	53:BU:92:ARG:HE	1.68	0.59
36:BA:1038:C:C2'	36:BA:1039:G:H5''	2.32	0.59
36:BA:1269:A:H61	36:BA:2011:U:H3	1.50	0.59
36:BA:1364:G:H5''	36:BA:1365:A:OP2	2.02	0.59
36:BA:1661:G:O2'	36:BA:1662:C:H5'	2.03	0.59
36:BA:1708:C:H2'	36:BA:1709:U:H6	1.68	0.59
36:BA:1788:C:O2'	36:BA:1789:A:H5'	2.03	0.59
36:BA:2101:G:H22	36:BA:2189:U:H3	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2475:C:H42	36:BA:2529:G:N2	2.00	0.59
36:BA:2533:A:C2'	36:BA:2534:A:H5'	2.33	0.59
38:BC:20:TYR:HB3	38:BC:24:GLU:HB2	1.84	0.59
38:BC:131:LEU:HD22	38:BC:136:LEU:CD1	2.33	0.59
39:BD:149:PRO:CG	39:BD:186:HIS:HD2	2.16	0.59
42:BG:34:LEU:CA	42:BG:161:THR:HG22	2.29	0.59
43:BH:30:LYS:HE2	43:BH:30:LYS:HA	1.84	0.59
43:BH:33:LEU:HD21	43:BH:136:ILE:HG22	1.83	0.59
46:BN:46:VAL:O	46:BN:47:ALA:HB3	2.02	0.59
49:BQ:22:LYS:N	58:BZ:78:LYS:HE3	2.12	0.59
56:BX:11:PRO:HG2	56:BX:13:LEU:HG	1.85	0.59
1:CA:291:C:O2'	1:CA:292:G:H5'	2.03	0.59
1:CA:377:G:OP1	16:CP:5:ARG:HD3	2.02	0.59
1:CA:448:A:H2'	1:CA:449:C:C6	2.38	0.59
1:CA:1060:C:C5'	10:CJ:51:ARG:HB3	2.33	0.59
1:CA:1317:C:C2'	1:CA:1318:A:H5'	2.33	0.59
1:CA:1363(A):A:H4'	1:CA:1364:U:OP1	2.00	0.59
2:CB:101:MET:C	2:CB:102:LEU:HD12	2.23	0.59
4:CD:78:LEU:O	4:CD:78:LEU:HD23	2.02	0.59
4:CD:155:LEU:O	4:CD:159:ARG:HG2	2.03	0.59
7:CG:94:ARG:O	7:CG:97:GLN:N	2.35	0.59
8:CH:109:ILE:CG1	8:CH:110:ALA:H	2.09	0.59
12:CL:37:CYS:O	12:CL:80:HIS:HA	2.02	0.59
16:CP:14:ASN:CA	16:CP:42:ARG:HH12	2.12	0.59
20:CT:89:ARG:HB2	20:CT:104:LEU:CD1	2.31	0.59
28:D2:2:LYS:CB	36:DA:97:C:H5''	2.26	0.59
28:D2:38:GLN:HB3	28:D2:44:LEU:CG	2.32	0.59
30:D4:9:LEU:C	30:D4:10:VAL:HG12	2.22	0.59
36:DA:401:A:H2'	36:DA:402:A:C8	2.36	0.59
36:DA:416:C:C2'	36:DA:417:C:H5'	2.32	0.59
36:DA:1301:A:H4'	36:DA:1302:A:OP1	2.03	0.59
36:DA:1722:A:O2'	36:DA:1739:U:C5'	2.51	0.59
36:DA:1801:G:H3'	36:DA:1802:A:H5'	1.85	0.59
36:DA:2131:G:OP1	36:DA:2132:U:H3'	2.02	0.59
36:DA:2290:G:H2'	36:DA:2291:U:O4'	2.03	0.59
36:DA:2315:G:H2'	36:DA:2316:C:C6	2.38	0.59
38:DC:195:ALA:O	38:DC:198:ALA:HB3	2.02	0.59
39:DD:44:ASN:OD1	39:DD:44:ASN:N	2.35	0.59
39:DD:223:GLY:HA2	39:DD:226:MET:SD	2.43	0.59
40:DE:117:MET:HA	40:DE:122:PHE:H	1.67	0.59
42:DG:88:ILE:HG22	42:DG:89:GLY:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:67:LEU:C	43:DH:71:LEU:HG	2.22	0.59
49:DQ:59:ARG:HD2	49:DQ:59:ARG:C	2.23	0.59
49:DQ:140:ALA:O	49:DQ:141:GLN:HG2	2.02	0.59
52:DT:13:ARG:NH2	52:DT:15:VAL:HG11	2.18	0.59
53:DU:79:PHE:O	53:DU:83:LEU:HD13	2.01	0.59
54:DV:17:GLY:C	54:DV:18:LEU:HD13	2.23	0.59
56:DX:18:TYR:O	56:DX:20:GLY:N	2.36	0.59
57:DY:9:LYS:CE	57:DY:94:LYS:HE2	2.33	0.59
58:DZ:139:VAL:HG12	58:DZ:140:ASP:N	2.13	0.59
1:AA:274:A:H4'	1:AA:275:G:OP1	2.02	0.59
1:AA:495:A:H61	4:AD:119:GLN:HE22	1.50	0.59
1:AA:973:G:C1'	10:AJ:55:LYS:HE2	2.32	0.59
1:AA:1082:G:O2'	1:AA:1083:U:H5'	2.01	0.59
2:AB:154:LEU:HD23	2:AB:156:LYS:NZ	2.18	0.59
5:AE:125:SER:O	5:AE:126:ARG:HG3	2.02	0.59
7:AG:63:LYS:HZ2	7:AG:67:GLU:HB2	1.66	0.59
8:AH:25:ASP:O	8:AH:26:VAL:CB	2.51	0.59
12:AL:84:LEU:HD23	12:AL:85:ILE:H	1.67	0.59
13:AM:108:ARG:HH11	13:AM:108:ARG:CA	2.16	0.59
26:B0:56:ASP:OD1	26:B0:56:ASP:O	2.21	0.59
27:B1:26:ARG:HG3	27:B1:27:GLU:H	1.67	0.59
32:B6:32:ASN:O	32:B6:33:LYS:HB2	2.03	0.59
35:B9:2:LYS:HE2	36:BA:2526:G:H1'	1.84	0.59
36:BA:38:A:O2'	36:BA:39:C:H5'	2.02	0.59
36:BA:858:U:O2	36:BA:2268:A:H2'	2.02	0.59
36:BA:1190:G:H5'	48:BP:35:HIS:H	1.66	0.59
36:BA:1600:C:H2'	36:BA:1601:G:C8	2.38	0.59
36:BA:1639:U:O2'	36:BA:2699:C:H4'	2.02	0.59
36:BA:1988:C:O2'	36:BA:1989:G:H5'	2.02	0.59
36:BA:2131:G:OP1	36:BA:2132:U:H3'	2.03	0.59
39:BD:44:ASN:HB2	39:BD:48:ARG:O	2.02	0.59
40:BE:103:ASP:HA	40:BE:168:MET:HA	1.83	0.59
49:BQ:135:ASP:O	49:BQ:138:ASP:OD2	2.20	0.59
51:BS:13:ARG:CG	51:BS:14:VAL:H	2.05	0.59
54:BV:19:LYS:HB2	54:BV:96:ILE:HD11	1.82	0.59
58:BZ:100:VAL:O	58:BZ:124:ILE:HG12	2.02	0.59
1:CA:68:G:H1	1:CA:101:A:H61	1.49	0.59
1:CA:673:G:H2'	1:CA:674:G:C8	2.38	0.59
1:CA:1124:G:H2'	1:CA:1145:C:H41	1.67	0.59
1:CA:1271:G:C5'	1:CA:1314:C:H5''	2.32	0.59
8:CH:89:PRO:HA	8:CH:92:ARG:HD2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:108:ARG:HH11	13:CM:108:ARG:CA	2.15	0.59
20:CT:43:LEU:HB3	20:CT:48:LYS:HG3	1.83	0.59
24:CY:64:C:C4'	25:CZ:391:GLY:HA2	2.32	0.59
27:D1:14:VAL:CG2	36:DA:188:G:H5'	2.31	0.59
27:D1:25:LYS:HB2	36:DA:388:G:OP1	2.02	0.59
33:D7:19:ARG:HD3	36:DA:125:G:O5'	2.03	0.59
34:D8:7:HIS:C	34:D8:9:GLY:H	2.06	0.59
36:DA:30:G:H2'	36:DA:31:C:C6	2.37	0.59
36:DA:271(J):C:O2	36:DA:271(J):C:H2'	2.02	0.59
36:DA:381:G:C2	36:DA:394:A:C2	2.90	0.59
36:DA:473:G:O2'	36:DA:474:G:H5'	2.02	0.59
36:DA:769:G:H2'	36:DA:770:G:C8	2.37	0.59
36:DA:907:U:OP1	49:DQ:24:GLY:N	2.35	0.59
36:DA:1069:A:H1'	36:DA:1070:A:P	2.43	0.59
36:DA:1192:G:O6	48:DP:29:LYS:NZ	2.36	0.59
36:DA:1496:A:H1'	36:DA:1578:U:O2'	2.02	0.59
36:DA:2065:C:H2'	36:DA:2066:C:C6	2.38	0.59
36:DA:2131:G:O4'	36:DA:2133:G:N2	2.33	0.59
36:DA:2292:C:O2'	36:DA:2293:C:H5'	2.02	0.59
36:DA:2393:A:H2'	36:DA:2394:C:H5'	1.84	0.59
36:DA:2584:U:H2'	36:DA:2585:U:H5'	1.85	0.59
39:DD:28:GLU:H	39:DD:29:PRO:CD	2.15	0.59
40:DE:120:TRP:NE1	40:DE:155:LYS:HB3	2.18	0.59
53:DU:52:ARG:HA	53:DU:55:ARG:NH1	2.18	0.59
1:AA:221:C:O2'	1:AA:222:U:H5'	2.02	0.59
1:AA:688:G:O2'	1:AA:689:C:H5'	2.03	0.59
2:AB:101:MET:C	2:AB:102:LEU:HD12	2.24	0.59
3:AC:26:LYS:NZ	3:AC:27:LYS:HD2	2.18	0.59
3:AC:147:LYS:O	3:AC:172:ARG:HB2	2.03	0.59
4:AD:25:ARG:C	4:AD:27:TYR:H	2.05	0.59
4:AD:59:ARG:O	4:AD:63:LYS:HB2	2.03	0.59
4:AD:121:VAL:HG12	4:AD:134:ASP:CA	2.32	0.59
4:AD:128:VAL:O	4:AD:130:GLY:N	2.36	0.59
17:AQ:99:SER:O	17:AQ:100:LYS:HG3	2.02	0.59
19:AS:43:GLU:C	19:AS:45:VAL:N	2.56	0.59
36:BA:20:C:H2'	36:BA:21:A:C8	2.37	0.59
36:BA:48:G:N2	36:BA:177:G:N2	2.50	0.59
36:BA:271(L):U:H5''	36:BA:271(M):G:C5'	2.29	0.59
36:BA:860:U:C2'	36:BA:861:A:H5'	2.33	0.59
36:BA:1099:G:H2'	36:BA:1100:C:H6	1.68	0.59
36:BA:1747(A):G:C3'	36:BA:1748:G:H5''	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1812:A:O2'	36:BA:1813:G:H5'	2.02	0.59
36:BA:1971:A:C4	39:BD:241:PRO:HD3	2.38	0.59
36:BA:2631:G:H22	40:BE:61:ARG:NH1	2.00	0.59
36:BA:2712:U:O2'	36:BA:2713:A:H5'	2.03	0.59
36:BA:2715:C:O2'	36:BA:2716:U:H5'	2.03	0.59
36:BA:2772:C:H5'	40:BE:168:MET:CE	2.33	0.59
36:BA:2885:C:H2'	36:BA:2886:G:O4'	2.02	0.59
38:BC:100:ILE:O	38:BC:104:LEU:HD23	2.03	0.59
39:BD:77:ALA:CB	39:BD:97:TYR:HA	2.33	0.59
39:BD:243:GLY:O	39:BD:244:ARG:HB3	2.03	0.59
40:BE:1:MET:N	40:BE:84:PHE:HB2	2.17	0.59
40:BE:13:ARG:O	52:BT:57:PHE:HE1	1.85	0.59
40:BE:120:TRP:CG	40:BE:155:LYS:HE3	2.38	0.59
41:BF:40:GLN:HE22	41:BF:182:ASN:HB2	1.66	0.59
41:BF:57:VAL:CG1	41:BF:58:ALA:H	2.16	0.59
41:BF:157:VAL:HG22	41:BF:194:MET:HG2	1.85	0.59
43:BH:40:GLU:HB2	43:BH:64:LEU:CD1	2.33	0.59
50:BR:21:TYR:HB3	50:BR:47:PHE:CD2	2.37	0.59
51:BS:24:LEU:CB	51:BS:85:VAL:HG12	2.33	0.59
51:BS:83:LYS:HG2	51:BS:105:ALA:CB	2.33	0.59
54:BV:15:GLU:O	54:BV:96:ILE:HB	2.03	0.59
56:BX:8:ILE:HD12	56:BX:8:ILE:N	2.18	0.59
57:BY:95:LYS:CG	57:BY:100:ALA:HA	2.27	0.59
58:BZ:52:SER:OG	58:BZ:53:ILE:HG12	2.03	0.59
1:CA:438:G:C4'	4:CD:123:HIS:HD1	2.16	0.59
1:CA:684:A:N3	11:CK:39:PRO:HG2	2.17	0.59
1:CA:770:C:C2'	1:CA:771:G:H5'	2.32	0.59
1:CA:1431:C:H2'	1:CA:1432:G:O4'	2.03	0.59
3:CC:173:VAL:O	3:CC:175:LEU:HD12	2.03	0.59
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.58	0.59
5:CE:102:ALA:CB	5:CE:106:PRO:HG2	2.28	0.59
13:CM:49:THR:O	13:CM:53:VAL:HG23	2.03	0.59
22:CV:21:A:C2'	22:CV:22:G:H5''	2.33	0.59
32:D6:10:LEU:HD12	34:D8:34:TRP:HB2	1.85	0.59
36:DA:295:G:H5'	57:DY:3:VAL:HG22	1.85	0.59
36:DA:1438:U:H2'	36:DA:1439:A:H8	1.68	0.59
36:DA:2306:C:C4'	42:DG:136:ARG:HH12	2.15	0.59
37:DB:25:A:H2'	37:DB:25:A:N3	2.18	0.59
39:DD:175:LEU:HD12	39:DD:185:VAL:CG2	2.33	0.59
39:DD:231:HIS:CD2	39:DD:249:PRO:HB3	2.37	0.59
40:DE:199:ARG:CZ	40:DE:199:ARG:HB2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:40:GLN:HE22	41:DF:182:ASN:HB2	1.68	0.59
41:DF:135:LYS:HB3	41:DF:138:GLU:CB	2.31	0.59
42:DG:96:ARG:O	42:DG:97:ASP:C	2.39	0.59
42:DG:117:PHE:CG	42:DG:118:ARG:N	2.71	0.59
48:DP:16:ARG:CD	48:DP:18:ARG:H	2.16	0.59
49:DQ:29:PHE:HB2	49:DQ:105:GLU:OE2	2.02	0.59
50:DR:83:ILE:HG22	50:DR:87:TYR:HE2	1.67	0.59
58:DZ:30:ASN:N	58:DZ:33:LEU:O	2.32	0.59
1:AA:971:G:H5''	1:AA:972:C:H5''	1.84	0.58
1:AA:1237:C:H4'	1:AA:1334:G:H22	1.67	0.58
1:AA:1410:G:O2'	1:AA:1411:C:H5'	2.02	0.58
1:AA:1499:A:H1'	1:AA:1520:G:H5'	1.83	0.58
4:AD:61:LYS:HE2	4:AD:65:ARG:HE	1.68	0.58
10:AJ:80:LYS:HB3	10:AJ:80:LYS:HZ3	1.67	0.58
11:AK:34:ASP:O	11:AK:36:ASP:N	2.34	0.58
13:AM:2:ALA:C	13:AM:9:ILE:HG23	2.23	0.58
20:AT:14:LYS:HA	20:AT:17:ARG:NH2	2.18	0.58
25:AZ:389:ARG:HG2	25:AZ:394:THR:HA	1.84	0.58
30:B4:14:ILE:HD12	30:B4:14:ILE:N	2.18	0.58
30:B4:40:HIS:CD2	30:B4:41:PRO:HA	2.37	0.58
34:B8:7:HIS:C	34:B8:9:GLY:H	2.07	0.58
36:BA:568:U:C6	36:BA:570:G:OP2	2.55	0.58
36:BA:776:G:H4'	36:BA:777:A:O5'	2.02	0.58
36:BA:782:A:H4'	36:BA:783:A:O5'	2.03	0.58
36:BA:1247:A:OP2	48:BP:18:ARG:NH1	2.36	0.58
36:BA:1362:C:O2'	36:BA:1363:C:H5'	2.02	0.58
36:BA:1654:A:OP2	50:BR:3:HIS:HD2	1.85	0.58
36:BA:1763:G:N2	36:BA:1765:C:H5''	2.18	0.58
36:BA:1994:C:O2'	36:BA:1995:U:H5'	2.02	0.58
36:BA:2015:A:H2'	36:BA:2016:U:O4'	2.03	0.58
36:BA:2115:G:H22	36:BA:2119:A:P	2.25	0.58
36:BA:2304:G:H22	36:BA:2312:U:H3	1.49	0.58
36:BA:2543:G:H8	36:BA:2543:G:H5'	1.68	0.58
36:BA:2645:G:C3'	36:BA:2646:C:H5'	2.25	0.58
38:BC:131:LEU:HD22	38:BC:136:LEU:HD12	1.84	0.58
39:BD:35:LYS:N	39:BD:36:PRO:HD2	2.17	0.58
39:BD:76:PRO:O	39:BD:98:VAL:HG23	2.03	0.58
41:BF:124:LEU:HD22	41:BF:191:ARG:NH2	2.18	0.58
42:BG:92:VAL:HG13	42:BG:92:VAL:O	2.03	0.58
43:BH:74:ASN:OD1	43:BH:138:LYS:HD3	2.03	0.58
51:BS:56:LEU:C	51:BS:58:LEU:H	2.06	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:92:ARG:NH2	54:BV:10:LYS:HA	2.17	0.58
56:BX:48:LYS:O	56:BX:49:VAL:HG13	2.02	0.58
1:CA:353:A:H5'	1:CA:353:A:H8	1.68	0.58
1:CA:419:C:C2'	1:CA:420:U:H5'	2.33	0.58
1:CA:678:U:O2'	1:CA:679:C:H5'	2.03	0.58
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.38	0.58
1:CA:1457:G:H2'	1:CA:1458:G:H8	1.68	0.58
1:CA:1498:U:C5	23:CX:20:U:H5'	2.38	0.58
2:CB:165:VAL:HG23	2:CB:166:ASP:N	2.15	0.58
4:CD:20:TYR:HA	4:CD:26:CYS:CB	2.33	0.58
7:CG:31:MET:CG	7:CG:32:ARG:H	2.16	0.58
8:CH:28:ALA:HB3	8:CH:57:PRO:O	2.02	0.58
10:CJ:28:ARG:C	10:CJ:30:SER:H	2.06	0.58
10:CJ:50:ILE:HD11	14:CN:41:ARG:HD2	1.84	0.58
10:CJ:91:PRO:HB2	10:CJ:94:VAL:CB	2.29	0.58
10:CJ:97:GLU:HB3	10:CJ:99:LYS:HE2	1.84	0.58
11:CK:57:THR:HG22	11:CK:60:ALA:HB3	1.84	0.58
12:CL:17:LYS:NZ	12:CL:18:VAL:HG22	2.18	0.58
12:CL:32:PHE:HB3	12:CL:84:LEU:HD21	1.85	0.58
18:CR:75:ILE:C	18:CR:77:GLY:H	2.05	0.58
19:CS:45:VAL:HG12	19:CS:63:THR:O	2.03	0.58
20:CT:33:ILE:HG23	20:CT:63:ILE:HG12	1.83	0.58
20:CT:86:ARG:O	20:CT:90:GLN:HG2	2.03	0.58
25:CZ:300:ARG:O	25:CZ:302:GLN:N	2.35	0.58
26:D0:56:ASP:OD1	26:D0:56:ASP:O	2.20	0.58
29:D3:1:MET:O	29:D3:3:ARG:N	2.36	0.58
35:D9:11:CYS:SG	35:D9:12:ASP:N	2.75	0.58
36:DA:753:C:O2'	36:DA:754:C:H5'	2.03	0.58
36:DA:987:G:C2	36:DA:988:A:H1'	2.38	0.58
36:DA:1038:C:H3'	36:DA:1039:G:H5''	1.84	0.58
36:DA:1138:G:H1	36:DA:1143:A:H2	1.51	0.58
36:DA:1464:C:O2'	36:DA:1528:A:C8	2.55	0.58
36:DA:1568:G:OP2	39:DD:63:ARG:NH2	2.33	0.58
36:DA:1636:C:H2'	36:DA:1637:A:C8	2.38	0.58
39:DD:26:LYS:O	39:DD:27:THR:CB	2.51	0.58
39:DD:27:THR:HG21	39:DD:82:ILE:O	2.03	0.58
39:DD:32:SER:O	39:DD:36:PRO:HG3	2.03	0.58
40:DE:116:VAL:HG23	40:DE:120:TRP:HB2	1.84	0.58
48:DP:20:GLY:O	48:DP:21:ARG:HB2	2.03	0.58
49:DQ:18:LYS:HB3	49:DQ:98:LYS:HZ1	1.66	0.58
49:DQ:109:VAL:HG12	49:DQ:110:THR:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:52:ILE:O	52:DT:52:ILE:HG22	2.03	0.58
1:AA:1095:U:H5'	1:AA:1109:C:O2	2.04	0.58
2:AB:16:HIS:HB3	2:AB:210:SER:HA	1.85	0.58
2:AB:174:VAL:O	2:AB:177:ALA:HB3	2.03	0.58
3:AC:91:LEU:CD1	3:AC:101:LEU:HD12	2.29	0.58
5:AE:20:GLN:NE2	5:AE:25:ARG:CZ	2.66	0.58
12:AL:53:ARG:HD2	12:AL:53:ARG:N	2.18	0.58
13:AM:68:GLY:O	13:AM:70:LEU:N	2.36	0.58
15:AO:78:TYR:O	15:AO:82:ILE:HG22	2.03	0.58
16:AP:45:THR:HG22	16:AP:47:ASP:HB3	1.84	0.58
19:AS:24:ALA:O	19:AS:25:LYS:HB2	2.02	0.58
34:B8:7:HIS:CE1	34:B8:9:GLY:HA3	2.38	0.58
34:B8:38:GLY:HA3	34:B8:42:ARG:HH12	1.67	0.58
36:BA:135:G:O2'	36:BA:136:G:H5'	2.03	0.58
36:BA:769:G:O4'	36:BA:1379:A:N6	2.36	0.58
36:BA:1020:A:N1	36:BA:1141:U:H1'	2.18	0.58
36:BA:1376:C:O2'	36:BA:1377:G:H5'	2.03	0.58
36:BA:1636:C:H2'	36:BA:1637:A:C8	2.38	0.58
36:BA:2469:A:O2'	49:BQ:56:ARG:HG3	2.03	0.58
39:BD:26:LYS:O	39:BD:27:THR:CB	2.50	0.58
40:BE:117:MET:HA	40:BE:122:PHE:H	1.68	0.58
42:BG:47:LYS:NZ	42:BG:81:LYS:HB3	2.18	0.58
42:BG:77:ILE:HG22	42:BG:80:PHE:N	2.17	0.58
49:BQ:138:ASP:HB2	58:BZ:53:ILE:HD11	1.85	0.58
50:BR:9:LYS:O	50:BR:10:LEU:HD23	2.03	0.58
51:BS:28:VAL:HG12	51:BS:29:PHE:N	2.13	0.58
51:BS:89:ARG:HG3	51:BS:92:TYR:HA	1.85	0.58
52:BT:75:ILE:HD12	52:BT:75:ILE:N	2.18	0.58
52:BT:102:ILE:HG13	52:BT:103:ARG:N	2.11	0.58
1:CA:59:A:H1'	1:CA:354:G:C2	2.38	0.58
1:CA:398:C:O2'	1:CA:399:G:H5'	2.03	0.58
1:CA:532:A:H2	1:CA:1206:G:H21	1.49	0.58
1:CA:728:A:H2'	1:CA:729:A:C8	2.37	0.58
1:CA:972:C:OP2	10:CJ:57:LYS:HE2	2.04	0.58
1:CA:1495:U:O4	59:CA:1601:PAR:N12	2.36	0.58
1:CA:1522:U:O2'	1:CA:1523:G:H5'	2.03	0.58
5:CE:118:ILE:HG13	5:CE:119:LEU:N	2.18	0.58
12:CL:53:ARG:HD2	12:CL:53:ARG:N	2.17	0.58
12:CL:105:TYR:N	12:CL:105:TYR:CD2	2.69	0.58
25:CZ:79:HIS:CD2	25:CZ:80:VAL:N	2.71	0.58
31:D5:40:LYS:HD3	31:D5:44:THR:HB	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:308:G:H2'	36:DA:309:G:C8	2.38	0.58
36:DA:320:A:C6	41:DF:136:THR:HG21	2.39	0.58
36:DA:384:U:H2'	36:DA:385:C:H6	1.67	0.58
36:DA:733:G:O5'	36:DA:733:G:C8	2.52	0.58
36:DA:1826:G:H4'	39:DD:242:ARG:HE	1.68	0.58
36:DA:2117:A:N6	36:DA:2171:A:H61	2.01	0.58
36:DA:2162:G:O2'	36:DA:2163:C:H5'	2.03	0.58
37:DB:87:G:H8	37:DB:87:G:O5'	1.85	0.58
39:DD:27:THR:CG2	39:DD:82:ILE:O	2.52	0.58
39:DD:142:VAL:HG22	39:DD:143:HIS:N	2.17	0.58
41:DF:167:ALA:C	41:DF:173:VAL:HG11	2.23	0.58
48:DP:50:ARG:NH1	48:DP:51:PHE:CE2	2.71	0.58
48:DP:78:PRO:HB2	48:DP:111:ARG:HH21	1.68	0.58
51:DS:89:ARG:HG3	51:DS:92:TYR:HA	1.86	0.58
54:DV:24:LYS:HA	54:DV:92:THR:CG2	2.33	0.58
55:DW:64:MET:HB3	55:DW:109:GLU:CG	2.33	0.58
56:DX:12:VAL:CG2	56:DX:13:LEU:N	2.45	0.58
56:DX:18:TYR:HA	56:DX:21:PHE:CE1	2.38	0.58
1:AA:928:G:C2'	1:AA:929:G:H5'	2.34	0.58
1:AA:1015:A:H4'	14:AN:15:LYS:NZ	2.17	0.58
1:AA:1124:G:H2'	1:AA:1145:C:H41	1.66	0.58
1:AA:1288:A:H2'	1:AA:1289:A:H8	1.67	0.58
1:AA:1349:A:P	9:AI:120:ARG:HB2	2.44	0.58
1:AA:1488:G:O2'	1:AA:1489:G:H5'	2.04	0.58
2:AB:8:LYS:NZ	2:AB:217:ARG:NH1	2.51	0.58
2:AB:76:GLN:O	2:AB:77:ALA:HB2	2.03	0.58
5:AE:148:VAL:C	5:AE:150:ARG:H	2.06	0.58
6:AF:37:VAL:HG12	6:AF:38:GLU:H	1.66	0.58
20:AT:43:LEU:HB3	20:AT:48:LYS:HG3	1.85	0.58
20:AT:75:ASN:HA	20:AT:78:ALA:HB3	1.85	0.58
22:AW:19:G:N7	36:BA:2169:A:C2	2.71	0.58
26:B0:69:PHE:CD2	26:B0:79:VAL:HG22	2.39	0.58
28:B2:7:ARG:O	28:B2:11:GLU:HG3	2.03	0.58
28:B2:63:VAL:O	28:B2:66:GLU:N	2.36	0.58
34:B8:39:LYS:NZ	36:BA:2364:C:H5	2.01	0.58
36:BA:416:C:C2'	36:BA:417:C:H5'	2.33	0.58
36:BA:554:U:H2'	36:BA:555:U:C6	2.38	0.58
36:BA:645:C:H3'	36:BA:645:C:O2	2.04	0.58
36:BA:1384:A:N3	36:BA:1405:U:H1'	2.18	0.58
36:BA:1644:C:H2'	36:BA:1644:C:O2	2.02	0.58
36:BA:1709:U:H2'	36:BA:1710:C:C6	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1775:U:H2'	36:BA:1776:G:H5'	1.84	0.58
36:BA:2282:G:H5''	36:BA:2283:C:O4'	2.02	0.58
36:BA:2320:A:N3	36:BA:2320:A:H2'	2.17	0.58
40:BE:54:GLN:O	40:BE:75:VAL:HG23	2.03	0.58
43:BH:19:VAL:HG12	43:BH:20:ALA:H	1.67	0.58
43:BH:156:ALA:C	43:BH:158:HIS:N	2.50	0.58
48:BP:52:GLU:HA	48:BP:52:GLU:OE1	2.02	0.58
52:BT:80:SER:HB3	52:BT:81:PRO:CD	2.32	0.58
53:BU:3:ARG:HH11	53:BU:5:LYS:HB3	1.68	0.58
53:BU:92:ARG:NH2	54:BV:10:LYS:HG2	2.18	0.58
53:BU:92:ARG:HD3	53:BU:94:ASN:HB3	1.85	0.58
54:BV:38:LEU:CD1	54:BV:57:VAL:HB	2.33	0.58
58:BZ:55:HIS:CE1	58:BZ:135:GLU:HG2	2.37	0.58
1:CA:865:A:O2'	1:CA:866:C:H5'	2.03	0.58
1:CA:1082:G:O2'	1:CA:1083:U:H5'	2.03	0.58
1:CA:1249:C:H5''	9:CI:70:LYS:HZ1	1.66	0.58
1:CA:1250:A:H2'	1:CA:1251:A:H8	1.67	0.58
1:CA:1509:C:N3	1:CA:1526:G:N2	2.45	0.58
2:CB:189:ASP:O	2:CB:191:ASP:N	2.35	0.58
3:CC:53:ALA:HB2	3:CC:115:LEU:CD2	2.33	0.58
4:CD:177:ASP:O	4:CD:181:MET:N	2.36	0.58
11:CK:111:ASP:OD2	18:CR:84:LYS:HE3	2.03	0.58
13:CM:30:ALA:O	13:CM:32:GLU:N	2.36	0.58
17:CQ:47:PRO:HG2	17:CQ:48:GLU:H	1.67	0.58
21:CU:10:ARG:O	21:CU:13:ILE:N	2.35	0.58
22:CV:5:G:H2'	22:CV:6:G:C8	2.38	0.58
25:CZ:223:MET:HB2	25:CZ:241:ARG:O	2.02	0.58
25:CZ:223:MET:CB	25:CZ:242:ILE:HA	2.32	0.58
30:D4:46:GLN:CG	30:D4:47:GLN:N	2.65	0.58
34:D8:61:LEU:O	34:D8:64:TYR:N	2.29	0.58
36:DA:271(L):U:C5'	36:DA:271(M):G:H5'	2.27	0.58
36:DA:410:G:N2	36:DA:2407:G:C5	2.72	0.58
36:DA:552:G:H1'	36:DA:1220:A:N1	2.18	0.58
36:DA:566:U:O4	54:DV:78:LYS:HE2	2.04	0.58
36:DA:763:G:C4	36:DA:765:G:C8	2.92	0.58
36:DA:944:G:H22	48:DP:38:GLN:NE2	2.01	0.58
36:DA:1138:G:H1'	46:DN:105:GLY:O	2.03	0.58
36:DA:1258:C:O2'	36:DA:1259:G:H5'	2.04	0.58
36:DA:1345:C:H2'	36:DA:1346:G:H5'	1.83	0.58
36:DA:1887:C:C3'	36:DA:1888:G:H5''	2.33	0.58
36:DA:1971:A:N3	39:DD:240:ALA:HA	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2275:C:OP1	36:DA:2275:C:H6	1.86	0.58
37:DB:70:C:O2'	37:DB:71:C:H5'	2.03	0.58
38:DC:75:LEU:HG	38:DC:112:ALA:O	2.03	0.58
40:DE:103:ASP:HA	40:DE:168:MET:HA	1.84	0.58
41:DF:5:ALA:HB3	41:DF:18:ARG:O	2.03	0.58
43:DH:97:ARG:HH21	43:DH:99:VAL:HG21	1.67	0.58
48:DP:34:GLY:O	48:DP:35:HIS:HB2	2.04	0.58
49:DQ:141:GLN:NE2	58:DZ:72:ARG:HD3	2.18	0.58
52:DT:28:VAL:HG11	52:DT:46:GLU:HA	1.84	0.58
53:DU:92:ARG:NH2	54:DV:10:LYS:HG2	2.18	0.58
1:AA:154:C:H2'	1:AA:155:C:C6	2.38	0.58
1:AA:525:C:C4	1:AA:526:C:N4	2.72	0.58
1:AA:823:G:H21	8:AH:1:MET:HE3	1.67	0.58
1:AA:824:C:H2'	1:AA:825:G:H8	1.67	0.58
2:AB:200:ILE:HG22	2:AB:201:ILE:N	2.18	0.58
5:AE:72:GLN:NE2	5:AE:144:THR:HG22	2.19	0.58
9:AI:5:TYR:O	9:AI:84:ALA:HA	2.04	0.58
9:AI:112:LYS:HA	9:AI:119:ALA:HB2	1.84	0.58
11:AK:111:ASP:O	11:AK:113:PRO:HD3	2.03	0.58
13:AM:23:TYR:HB3	13:AM:67:GLU:HB3	1.85	0.58
33:B7:8:ASN:C	33:B7:8:ASN:ND2	2.55	0.58
34:B8:33:ASN:ND2	36:BA:2419:U:H5''	2.19	0.58
36:BA:7:G:N2	36:BA:8:A:H1'	2.17	0.58
36:BA:67:U:C5	36:BA:68:G:N7	2.72	0.58
36:BA:685:A:C2	36:BA:787:U:H1'	2.38	0.58
36:BA:1137:G:H2'	36:BA:1138:G:C8	2.37	0.58
36:BA:1374:G:H2'	36:BA:1375:C:H6	1.66	0.58
36:BA:1496:A:H1'	36:BA:1578:U:O2'	2.03	0.58
36:BA:1655:A:H4'	40:BE:114:ALA:HA	1.86	0.58
36:BA:1693:U:O2'	39:BD:14:ARG:NH2	2.36	0.58
36:BA:1820:U:C2	39:BD:202:LYS:HB3	2.39	0.58
41:BF:57:VAL:CG1	41:BF:58:ALA:N	2.66	0.58
41:BF:122:LYS:HG3	41:BF:191:ARG:HG3	1.85	0.58
42:BG:66:GLN:HG2	42:BG:67:LYS:N	2.14	0.58
43:BH:68:THR:HG22	43:BH:72:ILE:HG12	1.85	0.58
49:BQ:5:ARG:O	49:BQ:6:ARG:HG2	2.03	0.58
51:BS:24:LEU:HB3	51:BS:85:VAL:HG12	1.84	0.58
51:BS:99:LYS:O	51:BS:100:ALA:C	2.40	0.58
52:BT:42:ILE:HG13	52:BT:42:ILE:O	2.02	0.58
55:BW:12:ILE:HD12	55:BW:42:ARG:HH12	1.66	0.58
55:BW:14:PRO:HG2	55:BW:78:GLU:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:35:THR:HB	56:BX:38:GLU:HG3	1.84	0.58
58:BZ:10:ARG:HH21	58:BZ:36:LYS:CB	2.17	0.58
1:CA:80:G:O2'	1:CA:81:U:H5'	2.03	0.58
1:CA:355:C:H2'	1:CA:356:A:C8	2.35	0.58
1:CA:524:G:C6	1:CA:525:C:N4	2.72	0.58
1:CA:689:C:O2'	1:CA:690:G:H5'	2.03	0.58
3:CC:35:GLU:OE1	3:CC:97:LYS:HE2	2.03	0.58
12:CL:71:PRO:O	12:CL:102:ARG:NH1	2.36	0.58
12:CL:83:VAL:HG12	12:CL:84:LEU:H	1.67	0.58
17:CQ:13:ASP:C	17:CQ:15:MET:H	2.07	0.58
17:CQ:99:SER:O	17:CQ:100:LYS:HG3	2.03	0.58
19:CS:29:ARG:N	19:CS:29:ARG:HD2	2.18	0.58
20:CT:63:ILE:HG22	20:CT:77:ALA:HB1	1.84	0.58
25:CZ:181:GLN:HG2	25:CZ:193:ASN:CG	2.24	0.58
27:D1:53:VAL:C	27:D1:55:GLY:H	2.07	0.58
31:D5:51:TYR:HB3	31:D5:54:GLY:HA3	1.85	0.58
36:DA:519:U:H5''	55:DW:25:ARG:NH1	2.18	0.58
36:DA:1068:G:H1'	36:DA:1069:A:OP1	2.04	0.58
36:DA:1091:G:H2'	36:DA:1092:C:H6	1.68	0.58
36:DA:1655:A:H4'	40:DE:115:GLY:H	1.68	0.58
36:DA:1785:A:P	36:DA:1982:C:H5'	2.44	0.58
36:DA:1818:U:H2'	39:DD:157:ARG:CG	2.32	0.58
36:DA:1998:G:H4'	36:DA:2724:C:H4'	1.85	0.58
36:DA:2024:G:H2'	36:DA:2025:C:O4'	2.04	0.58
36:DA:2235:G:H2'	36:DA:2236:C:H6	1.66	0.58
36:DA:2320:A:N3	36:DA:2320:A:H2'	2.18	0.58
36:DA:2494:G:O2'	49:DQ:80:GLU:HA	2.02	0.58
36:DA:2758:A:H62	43:DH:67:LEU:HD11	1.68	0.58
37:DB:8:U:H2'	37:DB:9:G:C8	2.38	0.58
40:DE:111:ARG:HA	50:DR:2:ARG:HG3	1.85	0.58
40:DE:126:PRO:O	40:DE:128:SER:N	2.37	0.58
41:DF:124:LEU:HD22	41:DF:191:ARG:NH2	2.18	0.58
42:DG:103:LEU:HD23	42:DG:106:LEU:HD23	1.85	0.58
42:DG:145:THR:HG22	42:DG:147:ASP:H	1.67	0.58
43:DH:37:VAL:CG1	43:DH:38:SER:H	2.12	0.58
44:DJ:114:UNK:O	44:DJ:115:UNK:CB	2.51	0.58
47:DO:43:VAL:HG23	47:DO:56:ASP:O	2.03	0.58
48:DP:100:LEU:HD13	48:DP:103:ALA:HB3	1.85	0.58
51:DS:30:ARG:HH11	51:DS:35:ILE:HB	1.69	0.58
52:DT:10:VAL:C	52:DT:12:SER:N	2.56	0.58
58:DZ:132:ASN:C	58:DZ:134:PRO:HD3	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:165:VAL:HG12	58:DZ:166:SER:OG	2.03	0.58
1:AA:68:G:H1	1:AA:101:A:H61	1.51	0.58
1:AA:381:C:H2'	1:AA:382:A:O4'	2.04	0.58
1:AA:1312:G:H2'	1:AA:1313:U:C6	2.38	0.58
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.19	0.58
1:AA:1441:G:H4'	1:AA:1442:G:C2	2.38	0.58
2:AB:155:LEU:HD11	2:AB:159:PRO:HD3	1.83	0.58
5:AE:57:LYS:HE3	5:AE:61:TYR:HE2	1.69	0.58
6:AF:24:GLU:HA	6:AF:27:GLN:HG2	1.86	0.58
8:AH:81:HIS:ND1	8:AH:81:HIS:N	2.50	0.58
25:AZ:137:LYS:HA	62:AZ:501:GDP:HN1	1.69	0.58
35:B9:1:MET:SD	36:BA:2477:C:C2'	2.91	0.58
36:BA:83:G:H5''	36:BA:84:A:OP1	2.03	0.58
36:BA:271(L):U:C5'	36:BA:271(M):G:H5'	2.29	0.58
36:BA:292:C:O2'	36:BA:293:U:H5'	2.03	0.58
36:BA:898:C:C2'	36:BA:899:A:H5'	2.34	0.58
36:BA:1344:G:H4'	36:BA:1384:A:C5	2.39	0.58
36:BA:1409:C:O5'	36:BA:1409:C:H6	1.87	0.58
36:BA:1541:G:O2'	36:BA:1542:A:H5''	2.03	0.58
36:BA:1566:A:OP1	39:BD:211:ARG:NH1	2.35	0.58
36:BA:2195:C:H2'	36:BA:2196:C:H6	1.68	0.58
36:BA:2475:C:H2'	36:BA:2477:C:OP1	2.04	0.58
36:BA:2636:U:H4'	40:BE:80:GLU:OE1	2.03	0.58
39:BD:61:LEU:O	39:BD:63:ARG:NH1	2.36	0.58
39:BD:126:GLN:HG3	39:BD:129:ASN:ND2	2.17	0.58
39:BD:229:VAL:HG23	39:BD:230:ASP:N	2.19	0.58
40:BE:51:PHE:CD1	40:BE:52:LEU:N	2.72	0.58
40:BE:116:VAL:O	40:BE:117:MET:HB2	2.01	0.58
41:BF:5:ALA:HB3	41:BF:18:ARG:O	2.03	0.58
41:BF:203:GLN:C	41:BF:205:ARG:H	2.06	0.58
47:BO:7:TYR:CE1	47:BO:20:MET:HE3	2.37	0.58
48:BP:130:PHE:N	48:BP:130:PHE:CD2	2.68	0.58
50:BR:13:HIS:ND1	50:BR:14:SER:N	2.52	0.58
50:BR:13:HIS:HE1	50:BR:15:SER:OG	1.85	0.58
53:BU:27:LEU:O	53:BU:31:SER:HB3	2.04	0.58
57:BY:73:ARG:HB3	57:BY:80:GLY:CA	2.34	0.58
1:CA:245:C:O2'	1:CA:246:A:O5'	2.22	0.58
1:CA:264:U:H4'	17:CQ:63:ARG:HD3	1.86	0.58
1:CA:689:C:P	11:CK:46:GLY:HA3	2.42	0.58
1:CA:1100:C:OP2	2:CB:96:ARG:HG2	2.04	0.58
1:CA:1398:A:N6	5:CE:21:ALA:HA	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:8:LYS:NZ	2:CB:217:ARG:NH1	2.52	0.58
3:CC:15:THR:CG2	3:CC:181:ASN:HA	2.32	0.58
4:CD:121:VAL:HG12	4:CD:134:ASP:CA	2.33	0.58
5:CE:57:LYS:HE3	5:CE:61:TYR:HE2	1.67	0.58
11:CK:79:SER:HA	11:CK:104:GLN:HB3	1.85	0.58
11:CK:111:ASP:HB2	18:CR:84:LYS:HD2	1.85	0.58
13:CM:89:GLY:C	13:CM:90:LEU:O	2.41	0.58
15:CO:64:ARG:HG3	15:CO:64:ARG:HH11	1.69	0.58
19:CS:16:LEU:C	19:CS:18:LYS:H	2.07	0.58
24:CY:55:PSU:O4	24:CY:55:PSU:H3'	2.03	0.58
25:CZ:197:ASP:HA	25:CZ:200:TRP:CD1	2.39	0.58
25:CZ:315:LYS:O	25:CZ:403:ILE:HG23	2.02	0.58
27:D1:58:ILE:HG12	27:D1:59:THR:N	2.18	0.58
32:D6:32:ASN:O	32:D6:33:LYS:HB2	2.03	0.58
34:D8:60:LEU:O	34:D8:63:PRO:HG2	2.02	0.58
36:DA:84:A:H2	36:DA:98:G:H21	1.52	0.58
36:DA:271(D):G:O2'	36:DA:271(E):U:H5'	2.03	0.58
36:DA:282:A:N3	36:DA:282:A:H2'	2.18	0.58
36:DA:1121:C:H2'	36:DA:1122:G:C8	2.38	0.58
36:DA:1665:A:H4'	47:DO:67:LYS:HB2	1.84	0.58
36:DA:1774:C:H4'	36:DA:1979:C:O2	2.03	0.58
36:DA:1899:G:H21	36:DA:1902:C:H41	1.49	0.58
36:DA:2467:C:C2'	36:DA:2468:G:H5'	2.34	0.58
36:DA:2673:G:H2'	36:DA:2674:G:H8	1.68	0.58
38:DC:38:ASP:O	38:DC:177:LYS:HE3	2.03	0.58
40:DE:39:PRO:HD3	40:DE:45:THR:OG1	2.03	0.58
41:DF:28:ILE:HG21	41:DF:116:ASP:OD1	2.03	0.58
41:DF:39:TRP:HZ2	41:DF:43:LYS:HZ3	1.52	0.58
47:DO:72:PRO:C	47:DO:74:GLY:N	2.54	0.58
48:DP:148:LEU:O	48:DP:149:GLU:HB2	2.03	0.58
49:DQ:37:LEU:HD23	49:DQ:37:LEU:N	2.18	0.58
49:DQ:62:GLY:O	58:DZ:178:GLU:OE1	2.20	0.58
50:DR:52:ILE:O	50:DR:55:ALA:HB3	2.03	0.58
57:DY:61:ILE:O	57:DY:62:GLU:HB2	2.03	0.58
58:DZ:73:GLN:O	58:DZ:87:ASP:OD1	2.20	0.58
58:DZ:146:ILE:HG13	58:DZ:147:GLY:N	2.18	0.58
1:AA:865:A:O2'	1:AA:866:C:H5'	2.04	0.58
1:AA:918:A:H2'	1:AA:919:A:H8	1.69	0.58
1:AA:1082:G:C2'	1:AA:1083:U:H5'	2.33	0.58
3:AC:94:LEU:O	3:AC:95:THR:OG1	2.17	0.58
4:AD:13:ARG:O	4:AD:15:GLU:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:37:ARG:O	8:AH:37:ARG:HG2	2.01	0.58
18:AR:24:ALA:C	18:AR:26:LEU:H	2.07	0.58
20:AT:44:ALA:CB	20:AT:88:VAL:HG13	2.32	0.58
26:B0:28:GLY:H	26:B0:66:VAL:HG13	1.68	0.58
32:B6:33:LYS:O	32:B6:34:LEU:HB2	2.04	0.58
36:BA:597:U:H4'	48:BP:15:ARG:CZ	2.34	0.58
36:BA:1138:G:H1'	46:BN:105:GLY:O	2.03	0.58
36:BA:1242:A:N6	48:BP:8:PRO:HG3	2.18	0.58
36:BA:1337:G:H2'	36:BA:1338:G:C8	2.38	0.58
36:BA:1464:C:O2'	36:BA:1528:A:C8	2.56	0.58
36:BA:1672:C:N3	36:BA:1673:U:C5	2.72	0.58
36:BA:1847:A:H2'	36:BA:1847:A:N3	2.19	0.58
36:BA:2073:C:H2'	36:BA:2074:U:H6	1.69	0.58
36:BA:2127:G:H2'	36:BA:2128:C:H6	1.69	0.58
36:BA:2189:U:H3'	36:BA:2190:G:H5''	1.84	0.58
36:BA:2629:A:N3	36:BA:2629:A:H2'	2.18	0.58
36:BA:2647:U:O2'	36:BA:2648:C:H5'	2.03	0.58
36:BA:2853:C:H2'	36:BA:2854:G:C8	2.39	0.58
37:BB:17:C:H2'	37:BB:18:G:H8	1.67	0.58
37:BB:19:G:H5'	37:BB:20:C:OP2	2.04	0.58
39:BD:14:ARG:HG3	39:BD:15:PHE:N	2.19	0.58
39:BD:175:LEU:HD12	39:BD:185:VAL:CG2	2.32	0.58
41:BF:20:LEU:H	41:BF:24:LEU:CD2	2.16	0.58
41:BF:28:ILE:HG22	41:BF:116:ASP:HB2	1.84	0.58
46:BN:60:ILE:HD13	46:BN:99:LEU:HD23	1.85	0.58
48:BP:78:PRO:HB2	48:BP:111:ARG:HH21	1.66	0.58
48:BP:101:VAL:C	48:BP:103:ALA:H	2.07	0.58
49:BQ:59:ARG:C	49:BQ:59:ARG:HD2	2.24	0.58
52:BT:63:VAL:O	52:BT:73:GLU:HA	2.03	0.58
58:BZ:163:LEU:CD2	58:BZ:165:VAL:HG23	2.33	0.58
1:CA:189(I):G:H2'	1:CA:189(J):G:C8	2.38	0.58
1:CA:552:U:O2'	1:CA:553:A:H5'	2.03	0.58
1:CA:797:C:O2'	1:CA:798:G:H5'	2.04	0.58
1:CA:1423:G:C4	1:CA:1424:C:C5	2.92	0.58
1:CA:1492:A:C2	1:CA:1493:A:N1	2.72	0.58
1:CA:1509:C:O2'	1:CA:1510:U:H5'	2.03	0.58
2:CB:130:ARG:NE	2:CB:131:PRO:HD2	2.19	0.58
3:CC:90:GLU:CA	3:CC:93:LYS:HB3	2.34	0.58
4:CD:200:GLU:O	4:CD:204:ILE:HG13	2.02	0.58
10:CJ:17:ASP:HB2	10:CJ:70:ARG:NH2	2.18	0.58
10:CJ:40:LEU:CB	10:CJ:41:PRO:HD2	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:20:VAL:HG21	16:CP:32:TYR:CE2	2.39	0.58
22:CV:56:C:H1'	42:DG:76:SER:CB	2.28	0.58
27:D1:49:VAL:HG21	27:D1:71:TYR:CE1	2.38	0.58
29:D3:7:LYS:HA	29:D3:34:GLU:HA	1.86	0.58
32:D6:45:LYS:O	32:D6:46:HIS:HB3	2.01	0.58
34:D8:5:LYS:HG2	36:DA:242:G:C8	2.39	0.58
35:D9:12:ASP:OD2	35:D9:13:LYS:HG3	2.04	0.58
36:DA:31:C:H2'	36:DA:32:C:C4'	2.34	0.58
36:DA:477:A:H2'	36:DA:478:A:C8	2.39	0.58
36:DA:496:G:H1'	55:DW:61:ASN:ND2	2.19	0.58
36:DA:1215:G:H2'	36:DA:1216:G:H8	1.69	0.58
36:DA:1440:G:H22	36:DA:1552:G:H1'	1.68	0.58
36:DA:1798:U:C2	36:DA:1822:G:N2	2.72	0.58
36:DA:1825:A:H2'	36:DA:1826:G:C8	2.39	0.58
36:DA:1921:G:O2'	36:DA:1922:G:H5'	2.04	0.58
36:DA:2653:U:H3'	36:DA:2654:A:C8	2.36	0.58
36:DA:2777:G:H4'	36:DA:2778:A:H5'	1.86	0.58
39:DD:131:LEU:HD12	39:DD:131:LEU:N	2.19	0.58
40:DE:13:ARG:O	52:DT:57:PHE:HE1	1.87	0.58
40:DE:69:LYS:O	40:DE:71:GLY:N	2.33	0.58
46:DN:2:LYS:HZ1	54:DV:12:TYR:HA	1.69	0.58
46:DN:61:ARG:HG3	46:DN:61:ARG:HH11	1.67	0.58
47:DO:47:ILE:HG23	47:DO:48:PRO:CD	2.28	0.58
52:DT:32:TYR:N	52:DT:32:TYR:HD2	2.01	0.58
52:DT:59:THR:OG1	52:DT:78:LEU:HD12	2.03	0.58
52:DT:113:LYS:C	52:DT:114:LEU:HD23	2.23	0.58
1:AA:57:G:H2'	1:AA:58:C:C6	2.39	0.58
1:AA:151:A:H2'	1:AA:152:A:H5'	1.85	0.58
1:AA:184:G:H2'	1:AA:185:A:H8	1.67	0.58
1:AA:389:A:C2'	1:AA:390:C:H5'	2.33	0.58
1:AA:398:C:O2'	1:AA:399:G:H5'	2.03	0.58
1:AA:475:G:O2'	1:AA:476:G:H5'	2.04	0.58
1:AA:726:C:H2'	1:AA:727:G:C8	2.39	0.58
1:AA:1068:G:N7	1:AA:1108:G:N2	2.51	0.58
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.39	0.58
2:AB:74:LYS:HE3	2:AB:206:ASP:OD2	2.04	0.58
3:AC:20:SER:HB2	3:AC:40:ARG:NH2	2.19	0.58
4:AD:49:ARG:O	4:AD:51:PRO:N	2.36	0.58
5:AE:6:PHE:HB2	5:AE:34:VAL:HG22	1.84	0.58
6:AF:30:LEU:O	6:AF:35:ALA:HB3	2.04	0.58
8:AH:2:LEU:CD2	8:AH:3:THR:H	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:63:THR:CG2	19:AS:66:MET:HG2	2.33	0.58
24:AY:75:C:C6	25:AZ:231:ILE:HG23	2.33	0.58
26:B0:25:ARG:NH2	26:B0:35:ASN:HD22	2.01	0.58
36:BA:459:U:H2'	36:BA:460:A:C8	2.24	0.58
36:BA:621:A:H2'	36:BA:622:G:O4'	2.02	0.58
36:BA:661:C:H2'	36:BA:662:G:C8	2.39	0.58
36:BA:1301:A:H4'	36:BA:1302:A:OP1	2.02	0.58
36:BA:1396:U:H2'	36:BA:1396:U:O2	2.03	0.58
36:BA:1722:A:O2'	36:BA:1739:U:C5'	2.52	0.58
36:BA:1902:C:C4'	39:BD:244:ARG:HB2	2.34	0.58
40:BE:15:PHE:CD1	40:BE:20:ALA:HB2	2.38	0.58
41:BF:88:VAL:HG22	41:BF:89:VAL:H	1.68	0.58
48:BP:83:VAL:H	48:BP:115:LEU:CD2	2.16	0.58
48:BP:126:VAL:HG22	48:BP:145:PRO:CB	2.34	0.58
1:CA:376:G:H5''	16:CP:5:ARG:HB2	1.85	0.58
1:CA:688:G:O2'	1:CA:689:C:H5'	2.02	0.58
1:CA:691:G:H2'	1:CA:692:U:C6	2.38	0.58
1:CA:909:A:P	12:CL:21:LYS:HD3	2.43	0.58
1:CA:940:C:H2'	1:CA:941:G:H8	1.69	0.58
2:CB:74:LYS:HE3	2:CB:206:ASP:OD2	2.03	0.58
2:CB:204:ASN:ND2	2:CB:204:ASN:C	2.56	0.58
2:CB:229:VAL:CG1	2:CB:230:VAL:N	2.64	0.58
4:CD:173:TRP:HB3	4:CD:187:ARG:HH22	1.67	0.58
5:CE:92:LYS:H	5:CE:118:ILE:HD11	1.67	0.58
8:CH:11:THR:O	8:CH:15:ASN:ND2	2.37	0.58
18:CR:25:THR:HG22	18:CR:42:ARG:NH1	2.19	0.58
25:CZ:136:ASN:C	25:CZ:138:VAL:H	2.06	0.58
25:CZ:389:ARG:HG2	25:CZ:394:THR:HA	1.86	0.58
26:D0:25:ARG:HH21	26:D0:35:ASN:HD22	1.50	0.58
26:D0:30:VAL:HA	26:D0:65:GLY:C	2.24	0.58
26:D0:30:VAL:HG12	26:D0:66:VAL:HG23	1.84	0.58
26:D0:55:ARG:HH21	36:DA:2386:C:H5''	1.68	0.58
30:D4:14:ILE:HD12	30:D4:14:ILE:N	2.19	0.58
34:D8:38:GLY:HA3	34:D8:42:ARG:HH12	1.68	0.58
35:D9:25:VAL:O	35:D9:25:VAL:HG12	2.03	0.58
36:DA:675:A:OP1	41:DF:63:LYS:HE2	2.03	0.58
36:DA:1337:G:H2'	36:DA:1338:G:C8	2.39	0.58
36:DA:1661:G:O2'	36:DA:1662:C:H5'	2.04	0.58
36:DA:2758:A:H2	36:DA:2759:G:H1'	1.69	0.58
36:DA:2811:G:P	40:DE:60:ASN:HB2	2.42	0.58
37:DB:10:C:O2'	37:DB:11:C:H5'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:214:VAL:CG2	38:DC:224:ILE:HG21	2.33	0.58
40:DE:3:GLY:O	40:DE:4:ILE:HB	2.04	0.58
41:DF:57:VAL:CG1	41:DF:58:ALA:H	2.17	0.58
43:DH:136:ILE:HD12	43:DH:136:ILE:H	1.68	0.58
46:DN:65:LYS:HB3	46:DN:65:LYS:NZ	2.18	0.58
57:DY:8:LYS:HB2	57:DY:28:LYS:HZ3	1.67	0.58
1:AA:361:G:H2'	1:AA:362:G:O4'	2.04	0.58
1:AA:689:C:O2'	1:AA:690:G:H5'	2.04	0.58
1:AA:709:G:H2'	1:AA:710:G:H8	1.68	0.58
1:AA:1047:G:O2'	1:AA:1048:G:H5'	2.04	0.58
1:AA:1484:C:H2'	1:AA:1485:U:O4'	2.04	0.58
1:AA:1515:C:O2'	1:AA:1516:G:H5'	2.03	0.58
5:AE:101:ILE:O	5:AE:120:THR:HG22	2.04	0.58
9:AI:33:PHE:CE2	9:AI:47:LEU:HD11	2.39	0.58
10:AJ:14:LYS:O	10:AJ:16:LEU:N	2.32	0.58
10:AJ:65:LEU:HD22	14:AN:56:VAL:CG2	2.34	0.58
11:AK:79:SER:HA	11:AK:104:GLN:HB3	1.85	0.58
22:AV:21:A:C2'	22:AV:22:G:H5''	2.33	0.58
22:AV:49:C:OP1	22:AV:49:C:H2'	2.03	0.58
22:AW:34:G:H22	23:AX:18:G:H22	1.51	0.58
25:AZ:223:MET:CB	25:AZ:242:ILE:HA	2.33	0.58
28:B2:30:ARG:O	28:B2:33:MET:HB3	2.03	0.58
28:B2:63:VAL:O	28:B2:65:ASN:N	2.36	0.58
32:B6:18:ARG:HG2	32:B6:18:ARG:NH1	2.17	0.58
34:B8:62:LEU:HD22	36:BA:242:G:H5'	1.85	0.58
36:BA:66:C:O4'	36:BA:456:C:N3	2.36	0.58
36:BA:84:A:H2	36:BA:98:G:H21	1.51	0.58
36:BA:333:G:H2'	36:BA:333:G:N3	2.19	0.58
36:BA:336:C:H4'	57:BY:7:VAL:CG2	2.34	0.58
36:BA:428:A:H3'	36:BA:429:A:C8	2.39	0.58
36:BA:749:C:H4'	36:BA:1271:G:N3	2.19	0.58
36:BA:1199:U:H3	36:BA:1246:A:H61	1.51	0.58
36:BA:1348:G:O2'	36:BA:1349:A:H5''	2.04	0.58
36:BA:1392:A:H2'	36:BA:1393:A:O4'	2.02	0.58
36:BA:1705:G:O2'	36:BA:1706:U:H5'	2.03	0.58
36:BA:1782:C:O2	36:BA:2609:U:H5''	2.04	0.58
36:BA:1861:G:H1	36:BA:1881:C:H42	1.52	0.58
36:BA:1968:G:C2'	36:BA:1969:A:H5''	2.34	0.58
36:BA:2176:A:H4'	38:BC:213:TYR:CD1	2.39	0.58
36:BA:2757:A:H2'	36:BA:2757:A:N3	2.18	0.58
36:BA:2764:A:C2	36:BA:2766:G:H1'	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BB:3:C:H42	37:BB:118:G:H1	1.51	0.58
38:BC:20:TYR:HB3	38:BC:24:GLU:HB3	1.85	0.58
39:BD:149:PRO:HG3	39:BD:186:HIS:HD2	1.67	0.58
41:BF:19:GLU:O	41:BF:20:LEU:HD23	2.03	0.58
49:BQ:137:TYR:CZ	58:BZ:81:ARG:NH2	2.72	0.58
51:BS:66:ALA:HB1	51:BS:99:LYS:HD3	1.86	0.58
55:BW:13:SER:O	55:BW:17:VAL:HG23	2.04	0.58
58:BZ:5:LEU:O	58:BZ:59:LEU:HA	2.04	0.58
58:BZ:99:TYR:HE2	58:BZ:125:LEU:HD13	1.68	0.58
1:CA:194:C:C2'	1:CA:195:A:H5''	2.32	0.58
1:CA:541:G:O2'	1:CA:542:G:H5'	2.03	0.58
1:CA:573:A:OP2	1:CA:574:A:OP2	2.22	0.58
1:CA:639:G:H2'	1:CA:640:A:H8	1.68	0.58
1:CA:954:G:H2'	1:CA:955:U:C6	2.39	0.58
1:CA:1102:A:H2'	1:CA:1103:C:H6	1.69	0.58
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.04	0.58
1:CA:1346:A:N1	1:CA:1374:A:H5''	2.19	0.58
2:CB:75:LYS:C	2:CB:77:ALA:H	2.07	0.58
2:CB:155:LEU:HD11	2:CB:159:PRO:HD3	1.85	0.58
3:CC:105:GLU:HG2	3:CC:106:VAL:H	1.68	0.58
3:CC:142:MET:SD	3:CC:148:GLY:N	2.77	0.58
4:CD:101:LEU:O	4:CD:104:VAL:HB	2.03	0.58
8:CH:94:TYR:N	8:CH:94:TYR:HD1	2.01	0.58
10:CJ:80:LYS:HB3	10:CJ:80:LYS:HZ2	1.69	0.58
11:CK:111:ASP:O	11:CK:113:PRO:HD3	2.04	0.58
24:CY:65:C:C5'	25:CZ:341:GLN:HG2	2.34	0.58
28:D2:33:MET:O	28:D2:34:GLU:C	2.42	0.58
36:DA:271(D):G:H2'	36:DA:271(E):U:O4'	2.04	0.58
36:DA:621:A:H2'	36:DA:622:G:C5'	2.34	0.58
36:DA:1009:A:N3	36:DA:1154:G:H5'	2.19	0.58
36:DA:1274:A:N3	36:DA:1297:C:H1'	2.19	0.58
36:DA:2193:G:H8	36:DA:2193:G:H5'	1.69	0.58
36:DA:2195:C:H2'	36:DA:2196:C:H6	1.69	0.58
36:DA:2636:U:OP1	40:DE:80:GLU:HG3	2.03	0.58
36:DA:2733:A:O2'	36:DA:2734:A:H5'	2.03	0.58
39:DD:44:ASN:HB2	39:DD:48:ARG:O	2.04	0.58
57:DY:73:ARG:O	57:DY:74:PRO:O	2.21	0.58
57:DY:74:PRO:HG2	57:DY:80:GLY:O	2.03	0.58
1:AA:452:A:HO2'	1:AA:453:A:H8	1.52	0.58
1:AA:739:C:O2'	1:AA:740:U:H5'	2.04	0.58
2:AB:130:ARG:NH2	2:AB:131:PRO:HD2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:86:VAL:O	3:AC:89:GLU:HB3	2.04	0.58
4:AD:81:GLU:OE1	4:AD:139:ARG:NH1	2.36	0.58
4:AD:165:MET:HE3	4:AD:176:LEU:HD21	1.85	0.58
16:AP:13:HIS:C	16:AP:15:PRO:HD3	2.24	0.58
20:AT:83:ARG:CA	20:AT:86:ARG:HB3	2.33	0.58
22:AW:58:A:H2'	22:AW:61:C:H41	1.69	0.58
32:B6:6:ARG:HH11	32:B6:6:ARG:CB	2.13	0.58
36:BA:31:C:H5''	36:BA:1239:G:OP1	2.04	0.58
36:BA:108:U:H2'	36:BA:109:G:H8	1.68	0.58
36:BA:611:C:H2'	36:BA:612:C:C6	2.35	0.58
36:BA:1639:U:H2'	36:BA:1640:C:C5'	2.32	0.58
36:BA:2206:G:H5''	36:BA:2206:G:N3	2.19	0.58
36:BA:2290:G:H2'	36:BA:2291:U:O4'	2.03	0.58
36:BA:2375:G:N3	36:BA:2379:G:N2	2.52	0.58
36:BA:2756:U:H4'	36:BA:2757:A:O5'	2.04	0.58
40:BE:169:ASN:C	40:BE:169:ASN:HD22	2.07	0.58
43:BH:51:ARG:O	43:BH:52:VAL:HG23	2.04	0.58
43:BH:149:ARG:HD3	43:BH:164:TYR:CD1	2.38	0.58
45:BK:72:UNK:O	45:BK:73:UNK:C	2.52	0.58
46:BN:5:VAL:CG1	46:BN:7:LYS:HG3	2.33	0.58
47:BO:22:ILE:HG12	47:BO:41:ALA:HA	1.84	0.58
52:BT:28:VAL:CG1	52:BT:46:GLU:HA	2.33	0.58
57:BY:74:PRO:HG2	57:BY:80:GLY:O	2.04	0.58
58:BZ:130:PRO:O	58:BZ:133:ILE:HD11	2.04	0.58
1:CA:1418:A:H1'	36:DA:1959:G:O4'	2.04	0.58
3:CC:53:ALA:HB2	3:CC:115:LEU:CG	2.33	0.58
3:CC:64:VAL:HG12	3:CC:66:VAL:HG23	1.83	0.58
5:CE:50:GLU:HA	5:CE:50:GLU:OE2	2.03	0.58
7:CG:100:ALA:O	7:CG:101:LEU:C	2.41	0.58
8:CH:1:MET:HE2	8:CH:1:MET:H3	1.68	0.58
8:CH:2:LEU:HD22	8:CH:3:THR:N	2.18	0.58
8:CH:37:ARG:O	8:CH:41:ARG:HB2	2.04	0.58
8:CH:119:LEU:HD12	8:CH:124:ALA:HA	1.86	0.58
18:CR:67:ALA:O	18:CR:71:LYS:HG3	2.03	0.58
36:DA:336:C:H4'	57:DY:7:VAL:CG2	2.33	0.58
36:DA:1722:A:C2	36:DA:1740:G:H2'	2.38	0.58
36:DA:2145:C:H2'	36:DA:2147:G:H22	1.67	0.58
36:DA:2746:U:H2'	36:DA:2747:G:H8	1.69	0.58
37:DB:44:G:O2'	37:DB:45:A:H5''	2.04	0.58
38:DC:99:ILE:HG23	38:DC:102:LYS:HZ3	1.68	0.58
41:DF:9:ILE:HG12	41:DF:14:PRO:CA	2.25	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:7:TYR:HE1	47:DO:20:MET:CE	2.17	0.58
49:DQ:51:ARG:HG3	49:DQ:51:ARG:HH11	1.68	0.58
51:DS:106:ARG:HD2	51:DS:107:GLU:C	2.23	0.58
55:DW:69:LEU:HA	55:DW:108:GLY:O	2.03	0.58
58:DZ:92:SER:O	58:DZ:130:PRO:HG2	2.04	0.58
1:AA:246:A:O3'	1:AA:247:G:H4'	2.04	0.58
1:AA:376:G:OP2	16:AP:67:THR:HG21	2.04	0.58
1:AA:552:U:O2'	1:AA:553:A:H5'	2.04	0.58
1:AA:612:C:H42	1:AA:628:G:H1	1.51	0.58
1:AA:939:G:H2'	1:AA:940:C:C6	2.38	0.58
1:AA:1044:A:H2'	1:AA:1045:C:O4'	2.04	0.58
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.02	0.58
2:AB:7:VAL:CA	2:AB:11:LEU:HG	2.33	0.58
2:AB:75:LYS:HA	2:AB:78:GLN:HG3	1.86	0.58
2:AB:102:LEU:HB3	2:AB:180:LEU:HD12	1.86	0.58
3:AC:26:LYS:HG3	3:AC:27:LYS:CG	2.28	0.58
4:AD:128:VAL:O	4:AD:129:ASN:C	2.42	0.58
8:AH:6:ILE:HD12	8:AH:6:ILE:N	2.18	0.58
8:AH:11:THR:HG23	8:AH:14:ARG:NH1	2.15	0.58
8:AH:23:SER:HB2	8:AH:62:TYR:HA	1.85	0.58
19:AS:42:PRO:O	19:AS:44:MET:SD	2.62	0.58
25:AZ:214:VAL:HG22	25:AZ:215:ARG:N	2.19	0.58
25:AZ:222:LEU:HD23	25:AZ:244:ARG:NH2	2.18	0.58
25:AZ:291:ARG:HG3	25:AZ:292:GLY:N	2.19	0.58
26:B0:30:VAL:O	26:B0:31:VAL:HG13	2.04	0.58
27:B1:11:ARG:HB3	27:B1:11:ARG:HH11	1.67	0.58
32:B6:10:LEU:HD22	32:B6:10:LEU:N	2.19	0.58
32:B6:19:ARG:CG	32:B6:20:ASN:H	1.98	0.58
36:BA:304:G:H2'	36:BA:305:U:C6	2.38	0.58
36:BA:1069:A:H1'	36:BA:1070:A:P	2.43	0.58
36:BA:1777:U:O2'	36:BA:1778:U:H5'	2.04	0.58
36:BA:1806:C:N4	36:BA:1811:G:H1	2.02	0.58
36:BA:1902:C:H5''	39:BD:246:PRO:CD	2.34	0.58
36:BA:2110:G:O2'	36:BA:2111:C:OP1	2.22	0.58
36:BA:2639:A:H2'	36:BA:2640:G:O4'	2.04	0.58
36:BA:2840:C:C5'	50:BR:53:HIS:HD2	2.11	0.58
36:BA:2856:C:C2'	36:BA:2857:G:H5'	2.34	0.58
38:BC:166:ASP:OD2	38:BC:168:THR:HG23	2.04	0.58
39:BD:27:THR:OG1	39:BD:83:GLU:HG2	2.03	0.58
39:BD:91:ARG:HH11	39:BD:91:ARG:CG	2.16	0.58
41:BF:64:ILE:CG2	41:BF:65:TRP:H	2.09	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:101:LEU:HD12	41:BF:102:PRO:CD	2.31	0.58
42:BG:105:LYS:HD2	42:BG:142:PRO:HG3	1.86	0.58
48:BP:101:VAL:CG2	48:BP:102:ARG:N	2.67	0.58
50:BR:77:ARG:C	50:BR:79:LEU:H	2.08	0.58
54:BV:64:HIS:ND1	54:BV:92:THR:HG22	2.19	0.58
57:BY:50:ARG:HG3	57:BY:56:PRO:O	2.03	0.58
1:CA:9:G:OP1	5:CE:122:GLU:HG3	2.03	0.58
1:CA:495:A:N6	4:CD:119:GLN:HE22	2.02	0.58
1:CA:784:C:H4'	36:DA:1837:C:OP1	2.04	0.58
1:CA:1363:C:H5'	1:CA:1363(A):A:O5'	2.04	0.58
2:CB:88:ALA:HB2	2:CB:219:VAL:HG13	1.86	0.58
3:CC:26:LYS:NZ	3:CC:27:LYS:HD2	2.18	0.58
7:CG:143:ARG:O	7:CG:145:ALA:O	2.22	0.58
10:CJ:96:ILE:HD13	10:CJ:96:ILE:N	2.19	0.58
12:CL:84:LEU:HD12	12:CL:104:VAL:HG11	1.86	0.58
13:CM:65:LYS:HD2	13:CM:69:GLU:O	2.03	0.58
19:CS:6:LYS:HG2	19:CS:7:LYS:CE	2.33	0.58
22:CV:74:C:H2'	22:CV:75:C:H5'	1.85	0.58
22:CW:31:A:H2'	22:CW:32:U:H6	1.69	0.58
27:D1:3:LYS:O	27:D1:12:PRO:HD2	2.03	0.58
27:D1:58:ILE:HG12	27:D1:59:THR:H	1.68	0.58
29:D3:56:VAL:O	29:D3:57:GLU:HB2	2.03	0.58
32:D6:7:ILE:O	32:D6:27:LYS:HD2	2.03	0.58
36:DA:67:U:C5	36:DA:68:G:N7	2.72	0.58
36:DA:621:A:H2'	36:DA:622:G:H5'	1.86	0.58
36:DA:723:G:C2	36:DA:724:U:C2	2.91	0.58
36:DA:2710:C:O2'	36:DA:2711:A:H5'	2.04	0.58
36:DA:2737:G:H2'	36:DA:2738:A:C8	2.39	0.58
37:DB:115:G:H2'	37:DB:116:G:C8	2.34	0.58
38:DC:30:LYS:HA	38:DC:30:LYS:HZ3	1.67	0.58
38:DC:75:LEU:HD11	38:DC:113:VAL:HA	1.86	0.58
38:DC:116:THR:HG21	38:DC:147:PHE:CD1	2.39	0.58
40:DE:15:PHE:CD1	40:DE:20:ALA:HB2	2.38	0.58
41:DF:7:TYR:HD2	41:DF:16:GLY:H	1.50	0.58
41:DF:19:GLU:O	41:DF:20:LEU:HD23	2.03	0.58
41:DF:131:GLY:HA3	41:DF:139:PHE:HA	1.86	0.58
42:DG:52:ILE:HG12	42:DG:53:LEU:N	2.18	0.58
48:DP:23:PRO:HG2	48:DP:33:ARG:HE	1.69	0.58
48:DP:78:PRO:CB	48:DP:111:ARG:NH2	2.67	0.58
48:DP:97:PRO:C	48:DP:99:LEU:N	2.57	0.58
49:DQ:27:VAL:HG12	49:DQ:29:PHE:N	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:13:HIS:ND1	50:DR:14:SER:N	2.52	0.58
52:DT:80:SER:HB3	52:DT:81:PRO:CD	2.32	0.58
57:DY:10:GLY:HA2	57:DY:27:VAL:HG13	1.85	0.58
1:AA:80:G:C2	1:AA:90:U:H5'	2.39	0.57
1:AA:836:G:C6	1:AA:851:G:C6	2.93	0.57
1:AA:947:G:H2'	1:AA:948:C:C6	2.39	0.57
3:AC:58:GLU:N	3:AC:65:ALA:CB	2.63	0.57
3:AC:179:ARG:HD2	3:AC:207:VAL:HA	1.86	0.57
4:AD:17:VAL:HG11	4:AD:197:PRO:HB2	1.86	0.57
6:AF:17:SER:O	6:AF:21:LEU:HD23	2.04	0.57
8:AH:74:PRO:O	8:AH:75:ARG:C	2.42	0.57
8:AH:89:PRO:HA	8:AH:92:ARG:HD2	1.85	0.57
9:AI:18:PHE:HB2	9:AI:62:TYR:HB3	1.86	0.57
10:AJ:12:ASP:C	10:AJ:14:LYS:H	2.06	0.57
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.43	0.57
11:AK:90:GLY:HA2	11:AK:93:GLN:HB2	1.84	0.57
13:AM:57:ARG:HG2	13:AM:61:GLU:CB	2.35	0.57
20:AT:89:ARG:HB2	20:AT:104:LEU:CD1	2.31	0.57
25:AZ:154:VAL:HG12	25:AZ:158:LEU:HD11	1.86	0.57
25:AZ:222:LEU:O	25:AZ:223:MET:HB3	2.03	0.57
26:B0:49:LYS:O	26:B0:51:VAL:HG23	2.04	0.57
32:B6:15:GLU:O	32:B6:17:LYS:N	2.37	0.57
32:B6:26:ASN:O	32:B6:27:LYS:HB2	2.01	0.57
33:B7:40:TRP:CE3	36:BA:459:U:H4'	2.39	0.57
36:BA:6:A:H2'	36:BA:7:G:H8	1.69	0.57
36:BA:223:A:N7	36:BA:422:A:H1'	2.18	0.57
36:BA:1826:G:OP2	39:BD:222:ARG:HB3	2.03	0.57
36:BA:2010:G:O2'	36:BA:2011:U:H5'	2.03	0.57
36:BA:2151:G:H2'	36:BA:2152:G:H8	1.68	0.57
36:BA:2249:U:H4'	36:BA:2275:C:H5	1.69	0.57
36:BA:2442:C:H2'	36:BA:2442:C:O2	2.02	0.57
36:BA:2589:A:H2'	36:BA:2590:A:C8	2.39	0.57
37:BB:6:C:H42	37:BB:115:G:H1	1.51	0.57
37:BB:75:G:O2'	58:BZ:27:VAL:HG21	2.04	0.57
38:BC:58:VAL:HG22	38:BC:201:PRO:CG	2.34	0.57
38:BC:139:ASN:OD1	38:BC:140:PRO:HD2	2.04	0.57
48:BP:16:ARG:HD3	48:BP:17:LYS:N	2.18	0.57
48:BP:55:ARG:O	48:BP:57:THR:N	2.37	0.57
48:BP:116:GLY:O	48:BP:137:LYS:NZ	2.37	0.57
49:BQ:141:GLN:O	58:BZ:70:LEU:HD12	2.04	0.57
52:BT:11:GLU:H	52:BT:11:GLU:CD	2.08	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:95:LEU:CD1	54:BV:11:GLN:HG3	2.32	0.57
57:BY:10:GLY:CA	57:BY:27:VAL:HG13	2.34	0.57
1:CA:261:U:O2	1:CA:263:A:C8	2.57	0.57
1:CA:726:C:H2'	1:CA:727:G:H8	1.69	0.57
1:CA:886:G:H2'	1:CA:887:G:O4'	2.04	0.57
1:CA:953:G:C2	1:CA:954:G:H1'	2.39	0.57
1:CA:1011:G:C2	1:CA:1019:C:N3	2.73	0.57
1:CA:1334:G:H3'	1:CA:1335:C:H5''	1.86	0.57
3:CC:14:ILE:HG12	3:CC:15:THR:N	2.17	0.57
12:CL:55:VAL:HG22	12:CL:56:ALA:N	2.18	0.57
19:CS:49:ILE:O	19:CS:60:VAL:HG13	2.04	0.57
24:CY:50:G:H2'	24:CY:51:C:C6	2.39	0.57
25:CZ:291:ARG:HG3	25:CZ:292:GLY:N	2.18	0.57
32:D6:53:LYS:HG2	32:D6:54:ILE:N	2.19	0.57
34:D8:26:LYS:NZ	36:DA:2361:A:OP2	2.35	0.57
34:D8:39:LYS:NZ	36:DA:2364:C:H5	2.00	0.57
36:DA:195:A:N7	36:DA:197:A:OP1	2.36	0.57
36:DA:343:C:H2'	36:DA:344:G:O5'	2.04	0.57
36:DA:1824:G:N3	39:DD:254:THR:OG1	2.37	0.57
36:DA:2263:C:O2'	36:DA:2264:C:H5'	2.03	0.57
36:DA:2773:C:O3'	40:DE:164:ARG:HB3	2.03	0.57
36:DA:2881:C:H2'	36:DA:2882:A:H8	1.67	0.57
40:DE:1:MET:N	40:DE:84:PHE:HB2	2.19	0.57
42:DG:18:GLU:OE1	42:DG:21:ARG:NH2	2.36	0.57
42:DG:83:ARG:C	42:DG:85:GLY:H	2.07	0.57
42:DG:170:ARG:O	42:DG:173:LEU:N	2.35	0.57
53:DU:86:ALA:O	53:DU:88:ILE:HG23	2.04	0.57
56:DX:11:PRO:HA	56:DX:28:PHE:HB3	1.86	0.57
58:DZ:12:GLY:CA	58:DZ:36:LYS:NZ	2.67	0.57
58:DZ:14:LYS:HB2	58:DZ:17:ALA:CB	2.34	0.57
1:AA:226:G:C2'	1:AA:227:G:H5'	2.34	0.57
1:AA:377:G:H1	1:AA:386:C:H42	1.53	0.57
1:AA:419:C:H42	1:AA:424:G:N2	1.98	0.57
1:AA:789:U:O2	1:AA:791:G:C8	2.57	0.57
1:AA:840:C:H5'	1:AA:841:U:OP1	2.04	0.57
1:AA:1155:G:H2'	1:AA:1156:G:H8	1.69	0.57
5:AE:20:GLN:HE22	5:AE:25:ARG:NH2	2.02	0.57
7:AG:94:ARG:O	7:AG:97:GLN:N	2.37	0.57
7:AG:149:ARG:HD3	11:AK:59:TYR:CE1	2.39	0.57
12:AL:105:TYR:N	12:AL:105:TYR:CD2	2.71	0.57
21:AU:2:GLY:O	21:AU:4:GLY:N	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:146:LEU:O	25:AZ:150:VAL:HG23	2.04	0.57
25:AZ:181:GLN:HG2	25:AZ:193:ASN:CG	2.23	0.57
25:AZ:315:LYS:O	25:AZ:403:ILE:HG23	2.04	0.57
28:B2:63:VAL:HA	28:B2:66:GLU:HG2	1.86	0.57
34:B8:59:LYS:O	34:B8:60:LEU:HD23	2.03	0.57
36:BA:226:G:H1	36:BA:418:G:H21	1.51	0.57
36:BA:343:C:H2'	36:BA:344:G:O5'	2.05	0.57
36:BA:1242:A:H3'	36:BA:1243:G:H8	1.69	0.57
36:BA:1248:G:P	41:BF:92:PRO:HG3	2.44	0.57
36:BA:1304:C:O2'	36:BA:1305:C:H5'	2.03	0.57
36:BA:1375:C:O2'	36:BA:1376:C:H5'	2.02	0.57
36:BA:1678:G:O5'	36:BA:1678:G:H8	1.88	0.57
36:BA:1801:G:H3'	36:BA:1802:A:H5'	1.86	0.57
36:BA:1822:G:C4	36:BA:1823:G:C8	2.92	0.57
36:BA:1949:G:H1	36:BA:1957:C:N4	2.01	0.57
36:BA:2230:G:H2'	36:BA:2231:C:H6	1.69	0.57
36:BA:2758:A:H2	36:BA:2759:G:H1'	1.69	0.57
36:BA:2777:G:C5'	36:BA:2778:A:H5'	2.34	0.57
36:BA:2789:C:H1'	36:BA:2892:A:C2	2.38	0.57
39:BD:48:ARG:HG3	39:BD:48:ARG:NH1	2.19	0.57
49:BQ:24:GLY:O	49:BQ:26:TYR:N	2.36	0.57
54:BV:40:LEU:HD13	54:BV:46:VAL:H	1.69	0.57
1:CA:9:G:H5''	5:CE:122:GLU:OE1	2.04	0.57
1:CA:489:C:H2'	1:CA:490:G:H8	1.69	0.57
1:CA:526:C:H2'	1:CA:527:G:H4'	1.85	0.57
1:CA:864:A:H2	1:CA:917:G:N3	2.02	0.57
1:CA:1200:C:O2'	1:CA:1201:A:OP2	2.21	0.57
1:CA:1226:C:C5	13:CM:104:ARG:HB2	2.39	0.57
2:CB:36:ARG:O	2:CB:38:GLY:N	2.38	0.57
3:CC:72:LYS:O	3:CC:74:GLY:N	2.36	0.57
7:CG:36:LYS:CA	7:CG:39:ALA:HB3	2.34	0.57
13:CM:30:ALA:C	13:CM:32:GLU:N	2.57	0.57
13:CM:119:GLY:O	13:CM:120:LYS:HB2	2.04	0.57
25:CZ:263:ARG:HB2	25:CZ:263:ARG:NH1	2.19	0.57
25:CZ:315:LYS:HB3	25:CZ:404:LEU:HB2	1.84	0.57
27:D1:73:LEU:O	27:D1:77:ALA:HB2	2.05	0.57
30:D4:46:GLN:CG	30:D4:47:GLN:H	2.16	0.57
32:D6:33:LYS:O	32:D6:34:LEU:HB2	2.05	0.57
32:D6:36:LEU:HD12	32:D6:50:ARG:NH1	2.18	0.57
33:D7:9:ARG:HG2	36:DA:1309:G:P	2.44	0.57
36:DA:320:A:C5	41:DF:136:THR:HG21	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:327:G:O2'	36:DA:328:U:H5'	2.04	0.57
36:DA:416:C:H2'	36:DA:417:C:H5'	1.85	0.57
36:DA:653:A:N3	36:DA:653:A:H2'	2.19	0.57
36:DA:681:G:H2'	36:DA:682:G:C8	2.39	0.57
36:DA:848:G:N3	36:DA:933:A:H1'	2.19	0.57
36:DA:1577:C:H2'	36:DA:1578:U:C6	2.39	0.57
36:DA:2110:G:N2	36:DA:2178:C:H5	2.02	0.57
36:DA:2856:C:C2'	36:DA:2857:G:H5'	2.34	0.57
37:DB:65:C:H2'	37:DB:109:C:N4	2.19	0.57
40:DE:60:ASN:OD1	40:DE:62:PRO:HD2	2.05	0.57
40:DE:165:VAL:HG11	40:DE:189:PRO:HB3	1.86	0.57
41:DF:195:ASP:OD2	41:DF:197:ASP:HB2	2.04	0.57
42:DG:47:LYS:HG3	42:DG:81:LYS:HG3	1.86	0.57
50:DR:55:ALA:CB	50:DR:79:LEU:HD11	2.34	0.57
52:DT:68:TYR:C	52:DT:70:VAL:H	2.07	0.57
53:DU:16:LYS:C	53:DU:17:ILE:HD12	2.25	0.57
58:DZ:45:ASP:O	58:DZ:47:VAL:N	2.37	0.57
1:AA:269:C:H2'	1:AA:270:A:H8	1.69	0.57
1:AA:1334:G:H3'	1:AA:1335:C:H5''	1.86	0.57
10:AJ:91:PRO:HB2	10:AJ:94:VAL:CB	2.30	0.57
12:AL:55:VAL:HG23	12:AL:68:ALA:O	2.04	0.57
13:AM:14:ARG:N	13:AM:44:ARG:HH11	2.02	0.57
21:AU:4:GLY:O	21:AU:6:ARG:N	2.37	0.57
24:AY:50:G:H2'	24:AY:51:C:C6	2.39	0.57
24:AY:54:5MU:C2'	24:AY:55:PSU:H5'	2.32	0.57
32:B6:8:LYS:HA	32:B6:27:LYS:CD	2.34	0.57
32:B6:32:ASN:CG	32:B6:33:LYS:H	2.06	0.57
36:BA:41:C:H2'	36:BA:42:G:O4'	2.05	0.57
36:BA:471:A:C2'	36:BA:472:A:H5''	2.34	0.57
36:BA:535:C:O3'	53:BU:53:ARG:HD3	2.04	0.57
36:BA:749:C:H5'	36:BA:1271:G:H1'	1.85	0.57
36:BA:811:U:O2	36:BA:1251:C:C5	2.57	0.57
36:BA:1528(A):A:H62	36:BA:1541:G:N2	2.03	0.57
38:BC:6:ARG:O	38:BC:10:LEU:HD23	2.05	0.57
39:BD:196:VAL:O	39:BD:196:VAL:HG12	2.04	0.57
41:BF:28:ILE:HG21	41:BF:116:ASP:OD1	2.04	0.57
42:BG:27:ASN:C	42:BG:29:TRP:H	2.07	0.57
42:BG:165:THR:O	42:BG:168:GLU:HB2	2.04	0.57
43:BH:103:LEU:HB2	43:BH:123:PHE:CD2	2.32	0.57
48:BP:97:PRO:C	48:BP:99:LEU:N	2.58	0.57
53:BU:52:ARG:HA	53:BU:55:ARG:HH12	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:6:HIS:N	57:BY:6:HIS:CD2	2.70	0.57
57:BY:86:ARG:CG	57:BY:87:LYS:H	2.15	0.57
58:BZ:25:PRO:O	58:BZ:85:HIS:HD2	1.87	0.57
58:BZ:102:LEU:HD21	58:BZ:124:ILE:HD13	1.86	0.57
58:BZ:145:GLU:HG3	58:BZ:146:ILE:H	1.69	0.57
1:CA:22:G:H2'	1:CA:23:C:O4'	2.04	0.57
1:CA:319:G:C4'	1:CA:1468:A:H4'	2.34	0.57
1:CA:523:A:N6	12:CL:53:ARG:HH12	2.01	0.57
1:CA:976:G:H5'	1:CA:1358:U:O2'	2.04	0.57
1:CA:1325:C:H5''	21:CU:15:ARG:NH2	2.19	0.57
1:CA:1349:A:P	9:CI:120:ARG:HB2	2.44	0.57
1:CA:1442(A):G:H5'	1:CA:1442(B):A:OP2	2.05	0.57
4:CD:61:LYS:HA	4:CD:203:VAL:HG13	1.87	0.57
5:CE:6:PHE:HB2	5:CE:34:VAL:HG22	1.86	0.57
5:CE:150:ARG:HH11	5:CE:150:ARG:CB	2.17	0.57
11:CK:120:ARG:HH12	11:CK:126:ARG:CD	2.17	0.57
12:CL:84:LEU:HD23	12:CL:85:ILE:H	1.69	0.57
12:CL:105:TYR:N	12:CL:105:TYR:HD2	2.02	0.57
15:CO:39:LEU:HD22	15:CO:43:LEU:HG	1.86	0.57
21:CU:18:TYR:HB3	21:CU:22:ARG:HG2	1.86	0.57
25:CZ:272:MET:HB3	25:CZ:277:LEU:HD23	1.86	0.57
25:CZ:355:LEU:HB3	25:CZ:359:VAL:CB	2.34	0.57
28:D2:6:VAL:HA	28:D2:9:GLN:HB2	1.86	0.57
36:DA:38:A:O2'	36:DA:39:C:H5'	2.04	0.57
36:DA:548:A:H2'	36:DA:549:G:H5'	1.84	0.57
36:DA:565:C:H4'	36:DA:1253:A:N1	2.19	0.57
36:DA:857:C:H5'	36:DA:858:U:OP2	2.04	0.57
39:DD:85:ASP:OD2	39:DD:88:ARG:NH1	2.37	0.57
48:DP:16:ARG:HD3	48:DP:17:LYS:N	2.19	0.57
49:DQ:10:ARG:HB2	49:DQ:10:ARG:HH11	1.68	0.57
50:DR:28:LEU:HD23	50:DR:29:LEU:N	2.18	0.57
51:DS:56:LEU:O	51:DS:56:LEU:HD23	2.05	0.57
51:DS:68:GLN:HA	51:DS:71:ARG:HD3	1.86	0.57
52:DT:74:ARG:C	52:DT:75:ILE:HD12	2.24	0.57
54:DV:40:LEU:HA	54:DV:45:THR:HB	1.86	0.57
55:DW:42:ARG:O	55:DW:42:ARG:HG2	2.04	0.57
56:DX:29:TRP:CZ3	56:DX:78:LYS:HD2	2.39	0.57
57:DY:73:ARG:HB3	57:DY:80:GLY:CA	2.34	0.57
58:DZ:17:ALA:O	58:DZ:20:ARG:CG	2.52	0.57
1:AA:71:C:H2'	1:AA:72:C:C6	2.39	0.57
1:AA:837:G:O2'	1:AA:838:G:H5'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1109:C:C2'	1:AA:1110:A:H5'	2.34	0.57
1:AA:1439:C:H42	1:AA:1463:C:H42	1.50	0.57
1:AA:1490:C:C4	1:AA:1491:G:N7	2.73	0.57
1:AA:1490:C:N3	1:AA:1491:G:N7	2.52	0.57
7:AG:36:LYS:CA	7:AG:39:ALA:HB3	2.33	0.57
10:AJ:96:ILE:HD13	10:AJ:96:ILE:N	2.19	0.57
13:AM:6:GLY:O	13:AM:8:GLU:N	2.36	0.57
16:AP:23:ASP:O	16:AP:25:ARG:N	2.37	0.57
18:AR:25:THR:HG22	18:AR:25:THR:O	2.04	0.57
25:AZ:98:GLN:HA	25:AZ:241:ARG:NH2	2.19	0.57
27:B1:56:GLN:O	27:B1:57:GLU:C	2.42	0.57
27:B1:56:GLN:O	27:B1:57:GLU:O	2.21	0.57
29:B3:15:TYR:HB3	29:B3:19:GLN:NE2	2.19	0.57
33:B7:19:ARG:NH2	36:BA:124:G:N7	2.52	0.57
34:B8:13:ARG:HD2	48:BP:61:ARG:HD2	1.87	0.57
35:B9:1:MET:HG3	35:B9:31:LYS:O	2.04	0.57
36:BA:195:A:N7	36:BA:197:A:OP1	2.38	0.57
36:BA:1623:G:O2'	36:BA:1624:G:H5'	2.05	0.57
36:BA:2123:G:H1'	38:BC:172:HIS:HB3	1.86	0.57
36:BA:2591:C:OP2	39:BD:239:ARG:HB3	2.05	0.57
36:BA:2785:C:H2'	36:BA:2786:U:H6	1.69	0.57
38:BC:116:THR:HG21	38:BC:147:PHE:CD1	2.39	0.57
40:BE:1:MET:O	40:BE:2:LYS:C	2.43	0.57
40:BE:149:ARG:HG3	40:BE:149:ARG:HH11	1.69	0.57
40:BE:178:GLU:HG3	40:BE:179:GLU:N	2.20	0.57
45:BK:113:UNK:O	45:BK:114:UNK:CB	2.52	0.57
46:BN:16:ILE:HG23	46:BN:16:ILE:O	2.04	0.57
48:BP:20:GLY:O	48:BP:21:ARG:HB2	2.04	0.57
51:BS:83:LYS:C	51:BS:105:ALA:HB3	2.25	0.57
53:BU:16:LYS:C	53:BU:17:ILE:HD12	2.23	0.57
58:BZ:10:ARG:HG2	58:BZ:12:GLY:N	2.19	0.57
1:CA:649:G:O2'	1:CA:650:G:H5'	2.04	0.57
1:CA:687:A:H1'	1:CA:688:G:OP2	2.04	0.57
1:CA:1166:G:H1'	1:CA:1171:G:H22	1.69	0.57
1:CA:1226:C:H6	13:CM:103:THR:OG1	1.85	0.57
1:CA:1226:C:N4	13:CM:104:ARG:HD2	2.20	0.57
3:CC:191:THR:HG21	3:CC:193:TYR:CZ	2.39	0.57
3:CC:206:GLU:HG2	3:CC:207:VAL:H	1.68	0.57
4:CD:10:ARG:HG2	4:CD:10:ARG:HH11	1.70	0.57
8:CH:120:THR:C	8:CH:122:ARG:H	2.07	0.57
13:CM:15:VAL:HG23	13:CM:16:ASP:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:53:HIS:O	15:CO:56:LEU:N	2.37	0.57
20:CT:22:ARG:O	20:CT:26:ASN:ND2	2.37	0.57
20:CT:83:ARG:CA	20:CT:86:ARG:HB3	2.34	0.57
25:CZ:68:VAL:HG22	25:CZ:79:HIS:HB3	1.86	0.57
25:CZ:355:LEU:C	25:CZ:359:VAL:HG23	2.25	0.57
28:D2:3:LEU:CB	36:DA:98:G:OP1	2.51	0.57
32:D6:15:GLU:O	32:D6:17:LYS:N	2.38	0.57
35:D9:2:LYS:HE2	36:DA:2526:G:H1'	1.85	0.57
36:DA:76:C:O2'	36:DA:77:C:H5'	2.05	0.57
36:DA:528:A:H2	36:DA:2043:C:H4'	1.68	0.57
36:DA:769:G:O4'	36:DA:1379:A:N6	2.37	0.57
36:DA:1308:A:H2'	36:DA:1309:G:O4'	2.05	0.57
36:DA:2289:G:H5''	36:DA:2384:G:H4'	1.87	0.57
36:DA:2724:C:H2'	36:DA:2725:A:C8	2.38	0.57
36:DA:2757:A:H2'	36:DA:2757:A:N3	2.18	0.57
38:DC:131:LEU:HB3	38:DC:136:LEU:CB	2.35	0.57
40:DE:51:PHE:CD1	40:DE:52:LEU:N	2.72	0.57
42:DG:67:LYS:N	42:DG:67:LYS:CD	2.67	0.57
48:DP:36:LYS:HB3	48:DP:41:ARG:HB3	1.86	0.57
48:DP:116:GLY:O	48:DP:137:LYS:NZ	2.36	0.57
50:DR:54:LEU:HB3	50:DR:62:ALA:HB1	1.85	0.57
53:DU:28:ARG:HD3	53:DU:38:THR:HG23	1.86	0.57
54:DV:38:LEU:CD1	54:DV:57:VAL:HB	2.34	0.57
1:AA:116:A:H2'	1:AA:117:G:O4'	2.04	0.57
1:AA:445:G:H2'	1:AA:446:G:H8	1.69	0.57
1:AA:598:U:H2'	1:AA:599:C:C6	2.39	0.57
1:AA:601:C:H2'	1:AA:602:A:C8	2.37	0.57
1:AA:1190:G:P	3:AC:5:ILE:HG23	2.45	0.57
1:AA:1435:G:C4	1:AA:1436:U:C5	2.93	0.57
1:AA:1495:U:OP1	13:AM:125:ARG:HD3	2.04	0.57
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.04	0.57
2:AB:8:LYS:HD3	2:AB:217:ARG:NH2	2.19	0.57
4:AD:76:ARG:O	4:AD:80:GLU:HG2	2.04	0.57
4:AD:112:VAL:HG12	4:AD:116:GLN:OE1	2.03	0.57
7:AG:24:THR:HA	7:AG:27:ILE:CG1	2.34	0.57
8:AH:63:LEU:HD22	8:AH:63:LEU:N	2.19	0.57
12:AL:32:PHE:HB3	12:AL:84:LEU:CD2	2.35	0.57
13:AM:30:ALA:C	13:AM:32:GLU:N	2.58	0.57
16:AP:12:LYS:C	16:AP:14:ASN:H	2.06	0.57
20:AT:19:SER:O	20:AT:21:LYS:N	2.38	0.57
36:BA:654(N):G:O2'	36:BA:654(O):G:H5'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:873:G:O2'	36:BA:874:G:H5'	2.05	0.57
36:BA:2333:A:H1'	36:BA:2335:A:C5	2.39	0.57
36:BA:2864:G:OP1	52:BT:119:LYS:HD2	2.05	0.57
40:BE:60:ASN:OD1	40:BE:62:PRO:HD2	2.05	0.57
41:BF:10:PRO:HG2	41:BF:11:VAL:H	1.70	0.57
42:BG:146:TYR:CG	42:BG:147:ASP:N	2.72	0.57
47:BO:13:ASN:ND2	47:BO:97:ARG:HB2	2.20	0.57
48:BP:36:LYS:HB3	48:BP:41:ARG:HB3	1.86	0.57
48:BP:78:PRO:CB	48:BP:111:ARG:NH2	2.67	0.57
48:BP:147:LEU:HG	48:BP:148:LEU:N	2.20	0.57
49:BQ:67:ARG:HD2	49:BQ:105:GLU:OE1	2.03	0.57
50:BR:28:LEU:HA	50:BR:34:ILE:HG13	1.85	0.57
51:BS:30:ARG:HH11	51:BS:35:ILE:HB	1.68	0.57
53:BU:31:SER:HB3	53:BU:34:LYS:HB2	1.85	0.57
58:BZ:127:LYS:NZ	58:BZ:164:ALA:HB2	2.20	0.57
1:CA:57:G:N1	1:CA:356:A:C6	2.73	0.57
1:CA:709:G:H2'	1:CA:710:G:H8	1.68	0.57
1:CA:748:C:O2'	1:CA:749:C:O5'	2.22	0.57
1:CA:1413:A:C2	1:CA:1488:G:N2	2.73	0.57
3:CC:179:ARG:HD2	3:CC:207:VAL:HA	1.86	0.57
7:CG:12:LEU:CD1	7:CG:25:ALA:HB2	2.27	0.57
7:CG:63:LYS:HZ2	7:CG:67:GLU:HB2	1.68	0.57
7:CG:101:LEU:O	7:CG:104:LEU:HB2	2.04	0.57
11:CK:124:LYS:NZ	11:CK:124:LYS:CB	2.67	0.57
25:CZ:19:HIS:HA	25:CZ:115:GLN:HB2	1.87	0.57
25:CZ:228:VAL:HG21	25:CZ:298:VAL:O	2.04	0.57
25:CZ:341:GLN:N	25:CZ:341:GLN:NE2	2.53	0.57
28:D2:27:GLU:O	28:D2:29:LYS:N	2.38	0.57
28:D2:67:LYS:O	28:D2:69:ARG:N	2.31	0.57
32:D6:19:ARG:CD	36:DA:2400:G:H4'	2.21	0.57
36:DA:284:U:O5'	36:DA:284:U:H6	1.88	0.57
36:DA:321:G:H1'	41:DF:168:ARG:NH2	2.18	0.57
36:DA:674:G:H1'	41:DF:74:ARG:HD3	1.86	0.57
36:DA:1356:G:H2'	36:DA:1357:U:O4'	2.03	0.57
36:DA:1644:C:H2'	36:DA:1644:C:O2	2.03	0.57
36:DA:1892:C:H2'	36:DA:1893:C:C6	2.40	0.57
36:DA:1902:C:H1'	39:DD:244:ARG:HE	1.69	0.57
36:DA:2605:U:H2'	36:DA:2606:C:C6	2.40	0.57
36:DA:2892:A:N6	36:DA:2893:G:H21	1.90	0.57
40:DE:95:ILE:HD13	40:DE:95:ILE:N	2.19	0.57
41:DF:78:ILE:O	41:DF:80:ALA:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:182:ASN:OD1	41:DF:185:ASP:N	2.29	0.57
42:DG:52:ILE:HB	42:DG:54:GLU:CD	2.24	0.57
48:DP:83:VAL:H	48:DP:115:LEU:CD2	2.17	0.57
49:DQ:50:ALA:O	49:DQ:51:ARG:C	2.41	0.57
53:DU:102:GLU:HB2	53:DU:105:VAL:HB	1.86	0.57
56:DX:35:THR:HB	56:DX:38:GLU:HG3	1.86	0.57
58:DZ:7:ALA:HA	58:DZ:39:VAL:HG12	1.85	0.57
1:AA:536:C:O5'	1:AA:536:C:H6	1.87	0.57
1:AA:642:A:O2'	1:AA:643:C:H5'	2.04	0.57
1:AA:751:U:C4'	15:AO:24:SER:HB2	2.32	0.57
1:AA:940:C:H2'	1:AA:941:G:H8	1.69	0.57
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.39	0.57
3:AC:116:VAL:O	3:AC:119:ARG:HB3	2.04	0.57
9:AI:118:LYS:O	9:AI:119:ALA:HB3	2.03	0.57
17:AQ:40:LYS:HD3	17:AQ:42:TYR:CZ	2.40	0.57
20:AT:81:LYS:C	20:AT:83:ARG:H	2.07	0.57
22:AW:38:A:H2'	22:AW:39:U:O4'	2.05	0.57
25:AZ:86:ALA:O	25:AZ:87:ASP:HB2	2.05	0.57
25:AZ:136:ASN:C	25:AZ:138:VAL:H	2.07	0.57
25:AZ:181:GLN:HG2	25:AZ:193:ASN:CB	2.35	0.57
25:AZ:263:ARG:HB2	25:AZ:263:ARG:CZ	2.33	0.57
25:AZ:263:ARG:HB2	25:AZ:263:ARG:NH1	2.20	0.57
26:B0:55:ARG:NH1	36:BA:2384:G:OP2	2.38	0.57
27:B1:11:ARG:NH1	27:B1:11:ARG:CB	2.68	0.57
36:BA:271(J):C:H2'	36:BA:271(J):C:O2	2.03	0.57
36:BA:979:G:H21	36:BA:985:C:H42	1.52	0.57
36:BA:1127:A:O2'	36:BA:2517:C:H4'	2.05	0.57
36:BA:1199:U:H2'	36:BA:1200:C:C6	2.39	0.57
36:BA:1278:A:H5''	50:BR:36:THR:HG22	1.85	0.57
36:BA:1299:G:H4'	36:BA:1301:A:C4	2.40	0.57
36:BA:2026:C:H42	36:BA:2037:G:H1	1.52	0.57
36:BA:2289:G:H5''	36:BA:2384:G:H4'	1.86	0.57
36:BA:2305:A:N6	42:BG:43:LEU:HD13	2.20	0.57
36:BA:2338:G:H2'	36:BA:2339:G:C8	2.37	0.57
36:BA:2514:U:H2'	36:BA:2515:C:H6	1.69	0.57
36:BA:2762:G:C2'	36:BA:2763:G:H5'	2.35	0.57
38:BC:6:ARG:O	38:BC:6:ARG:NH1	2.38	0.57
39:BD:37:LEU:O	39:BD:62:TYR:HB3	2.04	0.57
41:BF:9:ILE:HG12	41:BF:14:PRO:CA	2.26	0.57
41:BF:45:ARG:CZ	41:BF:97:TYR:CE1	2.88	0.57
42:BG:51:ARG:HD3	42:BG:53:LEU:HD21	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:114:ILE:CD1	42:BG:135:LEU:HD11	2.35	0.57
52:BT:64:ARG:HA	52:BT:72:VAL:O	2.05	0.57
1:CA:274:A:H4'	1:CA:275:G:OP1	2.04	0.57
1:CA:1452:C:H4'	1:CA:1456:G:H5''	1.86	0.57
2:CB:8:LYS:HD3	2:CB:217:ARG:NH2	2.19	0.57
3:CC:114:PRO:O	3:CC:118:GLN:HG3	2.04	0.57
4:CD:11:LEU:N	4:CD:11:LEU:HD23	2.18	0.57
4:CD:129:ASN:HD22	4:CD:129:ASN:N	1.91	0.57
7:CG:118:VAL:HG23	7:CG:119:ARG:N	2.17	0.57
8:CH:2:LEU:CD2	8:CH:3:THR:H	2.18	0.57
10:CJ:12:ASP:C	10:CJ:14:LYS:H	2.08	0.57
12:CL:17:LYS:HD3	12:CL:18:VAL:HG22	1.86	0.57
20:CT:57:ARG:HH11	20:CT:103:GLY:N	2.03	0.57
27:D1:63:ALA:HB3	27:D1:66:HIS:CB	2.35	0.57
30:D4:9:LEU:CG	42:DG:98:ARG:HH12	2.17	0.57
32:D6:11:LEU:HD13	32:D6:11:LEU:C	2.25	0.57
36:DA:25:U:H5'	55:DW:79:GLY:HA2	1.86	0.57
36:DA:631:A:H1'	36:DA:2415:G:HO2'	1.70	0.57
36:DA:811:U:O2	36:DA:1251:C:C6	2.58	0.57
36:DA:1099:G:H8	36:DA:1099:G:O5'	1.86	0.57
36:DA:2337:G:H2'	36:DA:2338:G:H8	1.68	0.57
37:DB:17:C:H2'	37:DB:18:G:H8	1.69	0.57
38:DC:98:GLU:O	38:DC:98:GLU:HG3	2.03	0.57
40:DE:97:LYS:O	40:DE:100:GLU:HG3	2.04	0.57
41:DF:65:TRP:CZ3	41:DF:75:HIS:CD2	2.93	0.57
43:DH:74:ASN:OD1	43:DH:138:LYS:HD3	2.04	0.57
45:DK:72:UNK:O	45:DK:73:UNK:C	2.52	0.57
45:DK:117:UNK:O	45:DK:118:UNK:CB	2.52	0.57
46:DN:58:ASP:O	46:DN:60:ILE:HG13	2.05	0.57
53:DU:92:ARG:HD3	53:DU:94:ASN:HB3	1.85	0.57
54:DV:4:ILE:HB	54:DV:39:LEU:O	2.05	0.57
58:DZ:19:ARG:NH1	58:DZ:84:GLU:C	2.58	0.57
1:AA:15:G:C4'	5:AE:24:ARG:HH21	2.16	0.57
1:AA:52:G:O2'	1:AA:53:A:H5'	2.04	0.57
1:AA:54:C:H2'	1:AA:352:C:N4	2.20	0.57
1:AA:292:G:H1	1:AA:308:C:H42	1.51	0.57
1:AA:939:G:H2'	1:AA:940:C:C5	2.39	0.57
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.39	0.57
1:AA:1306:A:OP1	21:AU:6:ARG:NH2	2.37	0.57
2:AB:60:ASP:HB3	2:AB:64:ARG:HH21	1.70	0.57
2:AB:182:ILE:O	2:AB:184:VAL:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:103:GLY:O	5:AE:107:ARG:HB3	2.05	0.57
6:AF:7:ASN:OD1	6:AF:62:TRP:HD1	1.88	0.57
13:AM:49:THR:O	13:AM:53:VAL:HG23	2.04	0.57
15:AO:39:LEU:HD22	15:AO:43:LEU:HG	1.85	0.57
16:AP:55:ARG:NH2	16:AP:58:TYR:CD2	2.72	0.57
24:AY:77:THR:HG22	25:AZ:239:THR:CG2	2.35	0.57
25:AZ:149:LEU:O	25:AZ:149:LEU:HD12	2.04	0.57
26:B0:47:PRO:O	26:B0:78:TYR:HD2	1.87	0.57
36:BA:18:C:O3'	53:BU:23:GLY:HA2	2.04	0.57
36:BA:537:C:H42	36:BA:556:G:N2	2.02	0.57
36:BA:553:G:H2'	36:BA:554:U:O4'	2.05	0.57
36:BA:584:C:OP1	53:BU:6:THR:HB	2.04	0.57
36:BA:1027:A:H2	36:BA:1028:A:N7	2.03	0.57
36:BA:2881:C:H2'	36:BA:2882:A:H8	1.70	0.57
37:BB:25:A:N3	37:BB:25:A:H2'	2.18	0.57
39:BD:48:ARG:HG3	39:BD:48:ARG:HH11	1.69	0.57
39:BD:125:ILE:O	39:BD:125:ILE:HG22	2.03	0.57
42:BG:19:LEU:CD2	42:BG:175:LEU:HD12	2.35	0.57
42:BG:31:VAL:O	42:BG:31:VAL:HG13	2.02	0.57
42:BG:144:ILE:HG23	42:BG:144:ILE:O	2.04	0.57
42:BG:163:ALA:CB	42:BG:169:ALA:HB2	2.27	0.57
43:BH:85:LYS:NZ	43:BH:133:VAL:H	1.97	0.57
51:BS:106:ARG:HD2	51:BS:106:ARG:C	2.25	0.57
52:BT:68:TYR:C	52:BT:70:VAL:H	2.07	0.57
54:BV:52:VAL:HG22	54:BV:52:VAL:O	2.03	0.57
58:BZ:92:SER:O	58:BZ:130:PRO:HG2	2.05	0.57
58:BZ:163:LEU:CG	58:BZ:165:VAL:HG23	2.35	0.57
1:CA:427:U:OP1	4:CD:13:ARG:NH2	2.37	0.57
1:CA:568:G:O6	12:CL:5:PRO:HD3	2.05	0.57
1:CA:963:G:H1	1:CA:972:C:H42	1.51	0.57
1:CA:1039:C:H2'	1:CA:1040:U:C6	2.39	0.57
1:CA:1199:U:H4'	10:CJ:54:PHE:CE2	2.38	0.57
1:CA:1281:U:H3'	1:CA:1282:C:C6	2.40	0.57
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.19	0.57
1:CA:1372:U:OP1	9:CI:72:GLY:N	2.37	0.57
2:CB:60:ASP:HB3	2:CB:64:ARG:HH21	1.69	0.57
4:CD:2:GLY:O	4:CD:4:TYR:N	2.38	0.57
7:CG:42:ILE:CG2	7:CG:117:ALA:HA	2.30	0.57
7:CG:118:VAL:O	7:CG:119:ARG:C	2.43	0.57
12:CL:94:PRO:O	12:CL:96:VAL:N	2.38	0.57
14:CN:22:THR:O	14:CN:23:ARG:CB	2.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:42:ILE:CG2	14:CN:43:CYS:N	2.67	0.57
20:CT:8:ARG:HG3	20:CT:8:ARG:HH11	1.70	0.57
25:CZ:140:MET:CG	62:CZ:501:GDP:HN21	2.18	0.57
26:D0:47:PRO:HB3	26:D0:51:VAL:O	2.04	0.57
27:D1:71:TYR:O	27:D1:74:VAL:HB	2.05	0.57
33:D7:19:ARG:NH2	36:DA:124:G:C5	2.72	0.57
34:D8:18:ALA:HB2	36:DA:628:G:H5''	1.87	0.57
34:D8:22:VAL:CG2	34:D8:53:PRO:HB2	2.35	0.57
36:DA:304:G:H2'	36:DA:305:U:C6	2.39	0.57
36:DA:1528(A):A:H8	36:DA:1529:G:C8	2.21	0.57
36:DA:1574:C:H2'	36:DA:1575:C:C6	2.40	0.57
36:DA:2138:C:O2'	36:DA:2139:C:H5'	2.05	0.57
36:DA:2282:G:H5''	36:DA:2283:C:O4'	2.05	0.57
36:DA:2853:C:H2'	36:DA:2854:G:C8	2.40	0.57
36:DA:2885:C:H2'	36:DA:2886:G:O4'	2.04	0.57
38:DC:7:TYR:CZ	38:DC:11:LEU:HD21	2.40	0.57
40:DE:4:ILE:O	40:DE:5:LEU:HD23	2.05	0.57
41:DF:203:GLN:C	41:DF:205:ARG:H	2.07	0.57
42:DG:46:ALA:CB	42:DG:88:ILE:CG1	2.81	0.57
42:DG:85:GLY:O	42:DG:87:PRO:HD3	2.04	0.57
43:DH:61:HIS:C	43:DH:63:SER:N	2.58	0.57
43:DH:103:LEU:HB2	43:DH:123:PHE:CD2	2.33	0.57
50:DR:37:THR:HG23	50:DR:40:LYS:HE2	1.87	0.57
51:DS:56:LEU:C	51:DS:58:LEU:H	2.08	0.57
55:DW:12:ILE:HD12	55:DW:42:ARG:HH12	1.68	0.57
58:DZ:7:ALA:C	58:DZ:8:TYR:CD1	2.78	0.57
1:AA:909:A:OP1	12:AL:21:LYS:HD3	2.04	0.57
1:AA:1087:G:H2'	1:AA:1088:G:H8	1.69	0.57
1:AA:1418:A:N3	36:BA:1959:G:H1'	2.20	0.57
2:AB:17:PHE:HB3	2:AB:44:LEU:HD21	1.86	0.57
3:AC:14:ILE:HG12	3:AC:15:THR:N	2.20	0.57
9:AI:79:LEU:HD21	9:AI:102:LEU:O	2.04	0.57
9:AI:89:ASN:O	9:AI:92:TYR:HB2	2.03	0.57
25:AZ:68:VAL:HG22	25:AZ:79:HIS:HB3	1.87	0.57
25:AZ:334:PHE:O	25:AZ:361:MET:HA	2.04	0.57
28:B2:63:VAL:C	28:B2:65:ASN:N	2.56	0.57
31:B5:16:ARG:HD3	36:BA:1263:U:H5''	1.87	0.57
33:B7:13:ALA:O	33:B7:17:GLY:HA3	2.05	0.57
35:B9:1:MET:SD	36:BA:2478:A:OP2	2.62	0.57
36:BA:20:C:O2'	36:BA:21:A:H5'	2.05	0.57
36:BA:327:G:O2'	36:BA:328:U:H5'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:669:G:C2	36:BA:801:G:C6	2.93	0.57
36:BA:769:G:H2'	36:BA:770:G:H8	1.70	0.57
36:BA:811:U:O2	36:BA:1251:C:C6	2.58	0.57
36:BA:2312:U:H5''	42:BG:74:LYS:NZ	2.19	0.57
36:BA:2410:G:H2'	36:BA:2411:A:H8	1.69	0.57
36:BA:2467:C:O2'	36:BA:2468:G:H5'	2.04	0.57
38:BC:41:VAL:N	38:BC:176:GLY:O	2.38	0.57
39:BD:209:ALA:C	39:BD:210:GLY:O	2.40	0.57
40:BE:120:TRP:NE1	40:BE:155:LYS:HB3	2.19	0.57
42:BG:52:ILE:H	42:BG:52:ILE:CD1	2.08	0.57
43:BH:86:GLU:OE1	43:BH:165:ALA:HB2	2.04	0.57
46:BN:131:GLN:HE22	46:BN:133:GLN:CA	2.17	0.57
48:BP:88:LEU:HD21	48:BP:95:VAL:HG21	1.86	0.57
51:BS:56:LEU:C	51:BS:58:LEU:N	2.57	0.57
53:BU:28:ARG:HD3	53:BU:38:THR:HG23	1.87	0.57
54:BV:19:LYS:HB3	54:BV:94:LEU:O	2.04	0.57
57:BY:39:VAL:CG1	57:BY:40:GLU:H	2.11	0.57
1:CA:198:G:HO2'	1:CA:199:G:H8	1.51	0.57
1:CA:390:C:H4'	16:CP:28:ARG:NH1	2.20	0.57
1:CA:973:G:O4'	10:CJ:55:LYS:HE2	2.04	0.57
1:CA:1327:C:H2'	1:CA:1328:C:C6	2.40	0.57
1:CA:1410:G:C2'	1:CA:1411:C:H5'	2.33	0.57
2:CB:47:THR:HG22	2:CB:51:LEU:HD11	1.87	0.57
4:CD:17:VAL:HG11	4:CD:197:PRO:HB2	1.86	0.57
4:CD:49:ARG:O	4:CD:51:PRO:N	2.37	0.57
4:CD:76:ARG:O	4:CD:79:PHE:HB3	2.05	0.57
13:CM:68:GLY:O	13:CM:70:LEU:N	2.37	0.57
19:CS:62:ILE:CD1	19:CS:66:MET:HE2	2.33	0.57
22:CV:18:G:H4'	22:CV:60:U:O2	2.04	0.57
22:CW:67:C:O2'	22:CW:68:C:H5'	2.05	0.57
24:CY:9:A:H62	24:CY:23:A:H62	1.52	0.57
25:CZ:267:VAL:HG23	25:CZ:288:VAL:HG13	1.87	0.57
26:D0:50:ASN:ND2	26:D0:63:VAL:HG21	2.20	0.57
28:D2:21:LEU:HD21	28:D2:60:LEU:CD2	2.34	0.57
33:D7:19:ARG:NH2	36:DA:124:G:N7	2.53	0.57
34:D8:39:LYS:HZ2	36:DA:2364:C:H5	1.52	0.57
36:DA:271(P):C:H2'	36:DA:271(Q):G:C5'	2.29	0.57
36:DA:343:C:C2'	36:DA:344:G:O5'	2.52	0.57
36:DA:464:U:H2'	36:DA:465:G:O4'	2.05	0.57
36:DA:497:A:H2'	36:DA:498:G:C8	2.40	0.57
36:DA:607:U:H3	36:DA:621:A:H2	1.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:747:U:C5	36:DA:2613:U:C5	2.92	0.57
36:DA:1131:G:OP2	36:DA:2515:C:H4'	2.05	0.57
36:DA:1144:G:H2'	36:DA:1145:C:H6	1.70	0.57
36:DA:1907:G:O2'	36:DA:1908:C:H5'	2.05	0.57
36:DA:2222:G:N3	36:DA:2223:G:C8	2.73	0.57
36:DA:2376:A:N6	51:DS:92:TYR:CE2	2.73	0.57
36:DA:2807:G:H3'	36:DA:2808:U:C5'	2.24	0.57
37:DB:15:A:H1'	37:DB:110:G:C5	2.39	0.57
37:DB:101:G:H2'	37:DB:102:A:O4'	2.04	0.57
39:DD:45:ASN:CG	39:DD:46:GLN:H	2.07	0.57
40:DE:69:LYS:HE2	40:DE:69:LYS:N	2.19	0.57
40:DE:142:GLY:C	40:DE:143:ASN:HD22	2.08	0.57
41:DF:20:LEU:H	41:DF:24:LEU:HD21	1.70	0.57
42:DG:119:GLY:HA3	42:DG:181:ARG:HA	1.87	0.57
43:DH:30:LYS:HA	43:DH:30:LYS:HE2	1.86	0.57
48:DP:134:ALA:HB2	48:DP:137:LYS:HZ2	1.69	0.57
53:DU:9:VAL:O	53:DU:13:LYS:HE2	2.05	0.57
57:DY:50:ARG:CB	57:DY:53:PRO:HG3	2.18	0.57
58:DZ:28:MET:O	58:DZ:29:TYR:HB3	2.05	0.57
58:DZ:29:TYR:HA	58:DZ:33:LEU:O	2.05	0.57
1:AA:1215:G:H2'	1:AA:1215:G:N3	2.20	0.57
1:AA:1271:G:H5'	1:AA:1314:C:H5''	1.85	0.57
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.20	0.57
1:AA:1424:C:H2'	1:AA:1425:U:C6	2.38	0.57
3:AC:157:ILE:CD1	3:AC:166:GLU:HB2	2.35	0.57
4:AD:10:ARG:HG2	4:AD:10:ARG:HH11	1.70	0.57
4:AD:65:ARG:HD2	4:AD:72:GLU:HA	1.86	0.57
6:AF:2:ARG:CD	6:AF:69:GLU:HB3	2.34	0.57
7:AG:121:ALA:O	7:AG:124:LEU:N	2.37	0.57
11:AK:41:THR:HG21	11:AK:72:ALA:HA	1.87	0.57
13:AM:63:THR:HG22	13:AM:64:TRP:N	2.16	0.57
13:AM:65:LYS:HD2	13:AM:69:GLU:O	2.05	0.57
18:AR:37:VAL:HG12	18:AR:78:LEU:HB3	1.87	0.57
20:AT:33:ILE:HG23	20:AT:63:ILE:HG12	1.86	0.57
27:B1:3:LYS:HB3	27:B1:3:LYS:HZ3	1.69	0.57
31:B5:51:TYR:HB3	31:B5:54:GLY:HA3	1.86	0.57
36:BA:573:G:H5'	36:BA:575:A:N7	2.20	0.57
36:BA:1010:A:H1'	36:BA:1153:C:C1'	2.33	0.57
36:BA:1440:G:H2'	36:BA:1441:G:H8	1.70	0.57
36:BA:1511:C:H2'	36:BA:1512:U:H6	1.69	0.57
36:BA:1551:C:C2'	36:BA:1552:G:H5'	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2460:U:H2'	36:BA:2461:C:O4'	2.04	0.57
36:BA:2480:C:OP1	36:BA:2537:U:H4'	2.05	0.57
36:BA:2656:U:H2'	36:BA:2657:A:H5''	1.87	0.57
36:BA:2728:U:O2'	40:BE:22:PRO:HG3	2.05	0.57
38:BC:98:GLU:O	38:BC:98:GLU:HG3	2.04	0.57
40:BE:1:MET:N	40:BE:83:ASP:O	2.36	0.57
42:BG:20:ILE:CG2	42:BG:25:TYR:HB2	2.35	0.57
47:BO:91:LEU:HD13	47:BO:111:PHE:HE1	1.70	0.57
48:BP:134:ALA:HB2	48:BP:137:LYS:NZ	2.19	0.57
57:BY:98:VAL:O	57:BY:98:VAL:HG12	2.05	0.57
1:CA:226:G:C2'	1:CA:227:G:H5'	2.34	0.57
1:CA:1088:G:H2'	1:CA:1089:G:H8	1.69	0.57
1:CA:1288:A:H2'	1:CA:1289:A:H8	1.70	0.57
2:CB:81:VAL:O	2:CB:82:ARG:C	2.42	0.57
4:CD:25:ARG:C	4:CD:27:TYR:H	2.06	0.57
4:CD:65:ARG:HD2	4:CD:72:GLU:HA	1.86	0.57
7:CG:16:LEU:HD13	9:CI:42:ARG:HA	1.85	0.57
9:CI:79:LEU:HD21	9:CI:102:LEU:O	2.05	0.57
13:CM:107:ALA:C	13:CM:109:THR:H	2.07	0.57
25:CZ:181:GLN:HG2	25:CZ:193:ASN:CB	2.34	0.57
27:D1:37:ILE:HD11	36:DA:201:C:OP2	2.05	0.57
36:DA:65:C:H5'	56:DX:71:GLY:HA3	1.86	0.57
36:DA:116:C:O2'	36:DA:126:A:N3	2.36	0.57
36:DA:438:G:H2'	36:DA:440:G:H8	1.70	0.57
36:DA:537:C:H42	36:DA:556:G:N2	2.01	0.57
36:DA:667:U:H2'	36:DA:668:G:O4'	2.05	0.57
36:DA:744:G:H2'	36:DA:745:G:O4'	2.05	0.57
36:DA:749:C:H5'	36:DA:1271:G:H1'	1.87	0.57
36:DA:1005:C:H2'	36:DA:1006:C:H6	1.67	0.57
36:DA:1378:A:O2'	36:DA:1379:A:C5'	2.47	0.57
36:DA:2283:C:H5	36:DA:2389:G:H2'	1.69	0.57
36:DA:2530:A:H2'	36:DA:2531:A:H5''	1.87	0.57
36:DA:2584:U:O5'	36:DA:2584:U:O2	2.23	0.57
36:DA:2647:U:O2'	36:DA:2648:C:H5'	2.04	0.57
36:DA:2856:C:H2'	36:DA:2857:G:H5'	1.87	0.57
36:DA:2873:A:N3	50:DR:6:SER:OG	2.38	0.57
38:DC:214:VAL:CG2	38:DC:224:ILE:HD13	2.32	0.57
45:DK:95:UNK:O	45:DK:97:UNK:N	2.37	0.57
53:DU:92:ARG:HH22	54:DV:10:LYS:HB3	1.70	0.57
55:DW:14:PRO:HG2	55:DW:78:GLU:HB2	1.87	0.57
1:AA:194:C:C2'	1:AA:195:A:H5''	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:291:C:O2'	1:AA:292:G:H5'	2.05	0.57
1:AA:310:G:H4'	16:AP:31:LYS:HD2	1.87	0.57
6:AF:3:ARG:NH1	6:AF:38:GLU:OE1	2.38	0.57
6:AF:33:TYR:CB	6:AF:75:LEU:HD13	2.35	0.57
12:AL:62:SER:O	12:AL:64:TYR:N	2.38	0.57
20:AT:22:ARG:O	20:AT:26:ASN:ND2	2.38	0.57
24:AY:76:A:H61	25:AZ:234:ARG:CZ	2.17	0.57
25:AZ:19:HIS:CD2	25:AZ:115:GLN:HB2	2.40	0.57
25:AZ:197:ASP:HA	25:AZ:200:TRP:CD1	2.40	0.57
26:B0:30:VAL:HG12	26:B0:66:VAL:HG23	1.87	0.57
27:B1:89:GLU:O	27:B1:93:GLU:HB2	2.05	0.57
32:B6:8:LYS:HD3	32:B6:27:LYS:HD3	1.87	0.57
36:BA:442:G:H21	41:BF:48:THR:HB	1.69	0.57
36:BA:444:C:H4'	53:BU:2:PRO:HD3	1.86	0.57
36:BA:988:A:O5'	36:BA:988:A:C8	2.57	0.57
36:BA:1121:C:H2'	36:BA:1122:G:C8	2.39	0.57
36:BA:1326:U:O2'	36:BA:1327:C:H5'	2.05	0.57
36:BA:1403:C:H5''	36:BA:1471:A:C1'	2.34	0.57
36:BA:1427:A:H4'	36:BA:1428:C:O5'	2.05	0.57
36:BA:1440:G:N2	36:BA:1552:G:H1'	2.20	0.57
36:BA:1528(A):A:H8	36:BA:1529:G:C8	2.23	0.57
36:BA:2292:C:H42	36:BA:2340:G:H1	1.52	0.57
36:BA:2558:C:H2'	36:BA:2559:C:H6	1.69	0.57
39:BD:245:PRO:O	39:BD:246:PRO:C	2.42	0.57
40:BE:34:VAL:HG11	40:BE:78:LEU:HD22	1.87	0.57
40:BE:111:ARG:HA	50:BR:2:ARG:HG3	1.85	0.57
46:BN:39:ARG:C	46:BN:41:ASP:H	2.08	0.57
52:BT:59:THR:OG1	52:BT:78:LEU:HD12	2.05	0.57
53:BU:20:LEU:HD22	53:BU:20:LEU:N	2.20	0.57
53:BU:28:ARG:HD3	53:BU:38:THR:CG2	2.34	0.57
1:CA:438:G:H5'	4:CD:123:HIS:ND1	2.11	0.57
1:CA:1221:G:P	19:CS:36:ARG:HD3	2.44	0.57
1:CA:1442:G:H1	1:CA:1461:G:H21	1.51	0.57
1:CA:1529:G:H4'	1:CA:1530:G:OP2	2.04	0.57
2:CB:84:GLU:OE1	2:CB:216:SER:HA	2.05	0.57
2:CB:184:VAL:O	2:CB:198:ASP:N	2.38	0.57
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.19	0.57
10:CJ:4:ILE:O	10:CJ:74:ILE:HG12	2.04	0.57
10:CJ:38:ILE:HD11	10:CJ:71:LEU:HD23	1.86	0.57
10:CJ:47:PHE:CE2	14:CN:37:PHE:HE2	2.22	0.57
12:CL:41:ARG:HH12	12:CL:57:LYS:NZ	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:2:GLY:O	21:CU:4:GLY:N	2.37	0.57
25:CZ:38:GLU:OE1	25:CZ:200:TRP:HH2	1.88	0.57
25:CZ:98:GLN:HA	25:CZ:241:ARG:NH2	2.20	0.57
25:CZ:146:LEU:O	25:CZ:150:VAL:HG23	2.04	0.57
33:D7:18:PHE:H	33:D7:43:THR:HG21	1.70	0.57
35:D9:1:MET:HG3	35:D9:31:LYS:O	2.04	0.57
35:D9:7:VAL:CG2	35:D9:36:GLN:HB2	2.35	0.57
36:DA:302:C:O2'	36:DA:303:U:H5'	2.04	0.57
36:DA:792:G:H2'	36:DA:2440:C:O2	2.04	0.57
36:DA:1020:A:N1	36:DA:1141:U:H1'	2.20	0.57
36:DA:1308:A:N1	36:DA:1611:C:H1'	2.20	0.57
36:DA:1526:G:O2'	36:DA:1527:G:H5'	2.04	0.57
36:DA:1622:G:H2'	36:DA:1623:G:H8	1.69	0.57
36:DA:1805:U:H4'	39:DD:250:TRP:CZ2	2.40	0.57
36:DA:2010:G:OP2	55:DW:41:LYS:NZ	2.36	0.57
36:DA:2443:C:C2'	36:DA:2444:G:H5'	2.35	0.57
38:DC:20:TYR:HB3	38:DC:24:GLU:HB2	1.87	0.57
38:DC:77:ILE:O	38:DC:78:ALA:O	2.23	0.57
38:DC:198:ALA:O	38:DC:200:LYS:N	2.38	0.57
39:DD:247:ALA:HB1	39:DD:252:TRP:O	2.05	0.57
40:DE:76:ARG:O	40:DE:77:ILE:O	2.23	0.57
40:DE:149:ARG:HG3	40:DE:149:ARG:HH11	1.70	0.57
41:DF:32:LEU:HD22	41:DF:109:GLY:HA3	1.87	0.57
43:DH:92:ILE:C	43:DH:94:TYR:N	2.58	0.57
58:DZ:75:ASN:O	58:DZ:84:GLU:HB2	2.05	0.57
1:AA:189(H):G:O2'	1:AA:189(I):G:H8	1.87	0.56
1:AA:727:G:C2	1:AA:731:G:C6	2.93	0.56
1:AA:1317:C:C2'	1:AA:1318:A:H5'	2.35	0.56
1:AA:1405:G:O2'	1:AA:1406:U:H5'	2.05	0.56
2:AB:84:GLU:OE1	2:AB:216:SER:HA	2.04	0.56
3:AC:173:VAL:O	3:AC:175:LEU:HD12	2.04	0.56
3:AC:191:THR:HG21	3:AC:193:TYR:CZ	2.40	0.56
5:AE:45:PHE:CE2	5:AE:47:LYS:HD2	2.40	0.56
10:AJ:4:ILE:O	10:AJ:74:ILE:HG12	2.05	0.56
11:AK:111:ASP:OD2	18:AR:84:LYS:HE3	2.05	0.56
13:AM:107:ALA:C	13:AM:109:THR:H	2.07	0.56
15:AO:53:HIS:O	15:AO:56:LEU:N	2.38	0.56
25:AZ:38:GLU:OE1	25:AZ:200:TRP:HH2	1.88	0.56
29:B3:52:HIS:H	29:B3:52:HIS:CD2	2.22	0.56
30:B4:7:PRO:HD3	42:BG:67:LYS:HE3	1.88	0.56
34:B8:8:LYS:HG2	34:B8:11:LYS:HD3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:149:A:C2	36:BA:150:C:C2	2.93	0.56
36:BA:536:A:P	53:BU:53:ARG:HH11	2.28	0.56
36:BA:843:G:O2'	36:BA:844:C:H5'	2.05	0.56
36:BA:1274:A:N3	36:BA:1297:C:H1'	2.20	0.56
36:BA:1577:C:H2'	36:BA:1578:U:C6	2.40	0.56
36:BA:2101:G:H2'	36:BA:2102:U:C4'	2.35	0.56
36:BA:2193:G:H8	36:BA:2193:G:H5'	1.70	0.56
36:BA:2710:C:O2'	36:BA:2711:A:H5'	2.04	0.56
36:BA:2737:G:H2'	36:BA:2738:A:C8	2.39	0.56
40:BE:81:ILE:O	40:BE:81:ILE:CG2	2.53	0.56
48:BP:24:GLY:CA	48:BP:33:ARG:HH12	2.18	0.56
55:BW:64:MET:HB3	55:BW:109:GLU:CG	2.35	0.56
55:BW:69:LEU:HA	55:BW:108:GLY:O	2.05	0.56
56:BX:65:ARG:O	56:BX:66:LEU:HB2	2.04	0.56
58:BZ:125:LEU:HG	58:BZ:164:ALA:HB3	1.87	0.56
1:CA:137:C:H42	1:CA:226:G:H1	1.53	0.56
1:CA:200:G:H1	1:CA:217:C:N4	2.03	0.56
1:CA:977:A:N3	1:CA:977:A:C2'	2.68	0.56
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.40	0.56
1:CA:1505:G:H4'	1:CA:1506:U:H5'	1.86	0.56
1:CA:1523:G:H2'	1:CA:1524:C:H6	1.66	0.56
4:CD:165:MET:HE3	4:CD:176:LEU:HD21	1.87	0.56
7:CG:31:MET:HB2	7:CG:39:ALA:HB1	1.87	0.56
8:CH:30:ARG:HB3	8:CH:30:ARG:CZ	2.34	0.56
10:CJ:54:PHE:C	10:CJ:55:LYS:CE	2.67	0.56
13:CM:57:ARG:HG2	13:CM:61:GLU:CB	2.34	0.56
14:CN:29:ARG:HH11	14:CN:29:ARG:CG	2.17	0.56
24:CY:56:C:H1'	36:DA:1067:A:H1'	1.87	0.56
24:CY:64:C:O4'	25:CZ:391:GLY:HA2	2.05	0.56
25:CZ:134:PHE:CE2	25:CZ:136:ASN:HB2	2.40	0.56
25:CZ:150:VAL:O	25:CZ:154:VAL:HG23	2.05	0.56
25:CZ:254:GLU:HG3	25:CZ:307:PRO:HA	1.87	0.56
25:CZ:334:PHE:O	25:CZ:361:MET:HA	2.05	0.56
25:CZ:362:VAL:HG11	25:CZ:368:VAL:CG2	2.35	0.56
26:D0:16:SER:HG	36:DA:2261:C:H3'	1.69	0.56
28:D2:54:LYS:HG2	36:DA:73:A:OP1	2.04	0.56
32:D6:5:VAL:HG21	36:DA:2283:C:C5'	2.35	0.56
34:D8:61:LEU:CD1	34:D8:62:LEU:HG	2.35	0.56
34:D8:61:LEU:HD12	34:D8:62:LEU:N	2.20	0.56
36:DA:465:G:H2'	36:DA:466:A:C8	2.39	0.56
36:DA:531:C:C5	36:DA:2035:G:C2	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:597:U:H4'	48:DP:15:ARG:CZ	2.35	0.56
36:DA:661:C:H2'	36:DA:662:G:C8	2.40	0.56
36:DA:745:G:OP2	40:DE:133:LYS:HD2	2.05	0.56
36:DA:784:A:HO2'	36:DA:785:G:H8	1.53	0.56
36:DA:978:G:H1	36:DA:985:C:H42	1.53	0.56
36:DA:1779:U:C5	36:DA:1784:A:N7	2.73	0.56
36:DA:2073:C:H2'	36:DA:2074:U:H6	1.69	0.56
36:DA:2196:C:O2'	36:DA:2197:U:H5'	2.05	0.56
36:DA:2520:C:C6	36:DA:2567:G:H1'	2.40	0.56
41:DF:65:TRP:CZ3	41:DF:75:HIS:HD2	2.23	0.56
41:DF:202:PHE:O	41:DF:206:ILE:HG12	2.04	0.56
46:DN:96:GLU:OE2	46:DN:96:GLU:N	2.38	0.56
54:DV:52:VAL:HG22	54:DV:52:VAL:O	2.04	0.56
57:DY:27:VAL:HG12	57:DY:29:GLU:H	1.70	0.56
58:DZ:61:LEU:HD11	58:DZ:67:LEU:CD1	2.35	0.56
1:AA:1041:A:H2'	1:AA:1042:G:H8	1.69	0.56
1:AA:1060:C:H4'	10:AJ:52:GLY:N	2.19	0.56
1:AA:1498:U:C4	23:AX:20:U:C5'	2.88	0.56
2:AB:32:ILE:HG12	2:AB:33:TYR:H	1.70	0.56
2:AB:75:LYS:C	2:AB:77:ALA:H	2.07	0.56
2:AB:165:VAL:HG23	2:AB:166:ASP:N	2.19	0.56
2:AB:193:ASP:OD2	2:AB:193:ASP:O	2.23	0.56
3:AC:11:ARG:HG2	3:AC:11:ARG:HH11	1.70	0.56
9:AI:11:LYS:O	9:AI:13:ALA:N	2.39	0.56
10:AJ:28:ARG:C	10:AJ:30:SER:H	2.08	0.56
11:AK:57:THR:HG22	11:AK:60:ALA:HB3	1.87	0.56
13:AM:32:GLU:C	13:AM:34:LEU:N	2.58	0.56
19:AS:16:LEU:C	19:AS:18:LYS:H	2.08	0.56
21:AU:18:TYR:HB3	21:AU:22:ARG:HG2	1.87	0.56
22:AV:76:A:N7	26:B0:2:ALA:HB2	2.20	0.56
25:AZ:316:PHE:O	25:AZ:371:THR:HG23	2.05	0.56
25:AZ:389:ARG:CA	25:AZ:395:VAL:HG13	2.34	0.56
29:B3:15:TYR:CD2	29:B3:19:GLN:NE2	2.72	0.56
30:B4:6:HIS:CA	42:BG:67:LYS:HE3	2.35	0.56
32:B6:15:GLU:O	32:B6:16:CYS:C	2.43	0.56
34:B8:13:ARG:NH1	48:BP:59:LEU:HG	2.20	0.56
34:B8:62:LEU:CD1	36:BA:242:G:H3'	2.30	0.56
36:BA:25:U:H5'	55:BW:79:GLY:HA2	1.87	0.56
36:BA:31:C:H2'	36:BA:32:C:C4'	2.34	0.56
36:BA:37:C:H2'	36:BA:38:A:C8	2.40	0.56
36:BA:572:A:H5'	54:BV:78:LYS:HZ1	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:653:A:N3	36:BA:653:A:H2'	2.19	0.56
36:BA:920:G:H2'	36:BA:921:G:H8	1.70	0.56
36:BA:953:A:OP2	49:BQ:16:ARG:CZ	2.53	0.56
36:BA:1011:G:O2'	36:BA:1013:C:C5'	2.54	0.56
36:BA:1336:A:H2'	36:BA:1337:G:H8	1.69	0.56
36:BA:1525:G:H2'	36:BA:1526:G:H8	1.70	0.56
36:BA:1761:C:H2'	36:BA:1762:A:H8	1.71	0.56
36:BA:2246:G:H2'	36:BA:2247:A:H8	1.65	0.56
36:BA:2422:A:C8	36:BA:2422:A:H3'	2.40	0.56
36:BA:2761:G:H2'	36:BA:2762:G:C5'	2.11	0.56
36:BA:2801(A):A:H5'	36:BA:2802:G:H8	1.70	0.56
37:BB:50:G:OP1	51:BS:63:THR:HG23	2.03	0.56
37:BB:74:U:H2'	37:BB:75:G:C1'	2.35	0.56
39:BD:95:LEU:HD12	39:BD:95:LEU:H	1.70	0.56
41:BF:84:VAL:O	41:BF:86:GLY:N	2.35	0.56
42:BG:47:LYS:HE3	42:BG:81:LYS:HG3	1.87	0.56
43:BH:167:GLU:HG2	43:BH:168:PRO:HD2	1.87	0.56
52:BT:6:LEU:HA	52:BT:9:LEU:HD12	1.87	0.56
53:BU:91:ASP:OD1	53:BU:96:ALA:HB2	2.06	0.56
54:BV:40:LEU:HA	54:BV:45:THR:HB	1.87	0.56
57:BY:27:VAL:HG12	57:BY:29:GLU:H	1.70	0.56
58:BZ:77:ASP:OD2	58:BZ:79:ARG:O	2.23	0.56
1:CA:472:A:O2'	16:CP:81:ARG:HG3	2.05	0.56
1:CA:475:G:O2'	1:CA:476:G:H5'	2.05	0.56
1:CA:619:U:C4	4:CD:135:LEU:HD11	2.39	0.56
1:CA:879:C:O2'	1:CA:880:C:H5'	2.04	0.56
1:CA:1503:A:C2'	23:CX:16:A:H62	2.12	0.56
2:CB:51:LEU:O	2:CB:55:PHE:HD2	1.87	0.56
2:CB:77:ALA:CA	2:CB:80:ILE:HD13	2.32	0.56
7:CG:23:VAL:HG13	7:CG:43:PHE:CE2	2.40	0.56
10:CJ:8:LEU:CG	10:CJ:96:ILE:HG22	2.35	0.56
16:CP:13:HIS:C	16:CP:15:PRO:HD3	2.26	0.56
19:CS:28:LYS:C	19:CS:29:ARG:HG3	2.26	0.56
24:CY:75:C:C6	25:CZ:231:ILE:HG23	2.36	0.56
28:D2:35:LEU:O	28:D2:35:LEU:HD22	2.05	0.56
29:D3:7:LYS:HB3	29:D3:55:ARG:HB2	1.87	0.56
32:D6:6:ARG:HH12	32:D6:7:ILE:HG13	1.70	0.56
35:D9:30:PRO:C	35:D9:32:HIS:H	2.08	0.56
36:DA:6:A:H2'	36:DA:7:G:H8	1.70	0.56
36:DA:37:C:H2'	36:DA:38:A:C8	2.39	0.56
36:DA:520:G:H2'	36:DA:521:G:H8	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:654(A):G:H5'	36:DA:654(B):C:OP2	2.05	0.56
36:DA:697:C:O2'	36:DA:698:C:H5'	2.06	0.56
36:DA:988:A:O5'	36:DA:988:A:C8	2.58	0.56
36:DA:1682:G:H2'	36:DA:1683:C:C6	2.39	0.56
36:DA:2101:G:H2'	36:DA:2102:U:C4'	2.35	0.56
36:DA:2115:G:H22	36:DA:2119:A:P	2.27	0.56
36:DA:2243:U:H2'	36:DA:2244:U:C5	2.40	0.56
36:DA:2277:G:C6	36:DA:2278:A:N7	2.73	0.56
41:DF:7:TYR:OH	41:DF:10:PRO:HG3	2.05	0.56
41:DF:88:VAL:HG22	41:DF:89:VAL:H	1.70	0.56
41:DF:132:VAL:HG13	41:DF:133:ASN:N	2.20	0.56
42:DG:18:GLU:OE2	42:DG:18:GLU:HA	2.05	0.56
42:DG:31:VAL:O	42:DG:31:VAL:HG13	2.05	0.56
48:DP:130:PHE:N	48:DP:130:PHE:HD2	2.04	0.56
49:DQ:109:VAL:CG1	49:DQ:110:THR:N	2.68	0.56
50:DR:11:ASN:O	50:DR:12:ARG:HB2	2.05	0.56
52:DT:28:VAL:O	52:DT:29:ARG:CD	2.49	0.56
58:DZ:24:LEU:CD1	58:DZ:41:LEU:HA	2.35	0.56
58:DZ:102:LEU:HD21	58:DZ:124:ILE:CG1	2.35	0.56
1:AA:56:U:H2'	1:AA:57:G:H8	1.68	0.56
1:AA:165:C:O2'	1:AA:166:G:H5'	2.06	0.56
1:AA:202:U:O2'	1:AA:203:U:P	2.63	0.56
1:AA:342:C:H2'	1:AA:343:U:O4'	2.05	0.56
1:AA:404:U:C5'	4:AD:122:ARG:HD3	2.35	0.56
1:AA:581:G:O6	1:AA:758:G:N7	2.38	0.56
1:AA:714:G:H2'	1:AA:715:A:C8	2.40	0.56
1:AA:1054:C:C4	24:AY:34:G:H1'	2.40	0.56
1:AA:1151:A:H1'	10:AJ:39:PRO:HB2	1.86	0.56
1:AA:1191:A:H5''	3:AC:4:LYS:NZ	2.20	0.56
1:AA:1442(A):G:H5''	52:BT:118:ARG:HH12	1.70	0.56
2:AB:109:SER:O	2:AB:110:GLN:C	2.44	0.56
2:AB:130:ARG:HE	2:AB:131:PRO:HD2	1.71	0.56
3:AC:118:GLN:O	3:AC:121:ALA:HB3	2.05	0.56
4:AD:119:GLN:O	4:AD:123:HIS:HD2	1.88	0.56
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.88	0.56
5:AE:68:GLU:O	5:AE:68:GLU:HG3	2.05	0.56
5:AE:105:VAL:H	5:AE:106:PRO:CD	2.17	0.56
10:AJ:97:GLU:HB3	10:AJ:99:LYS:HE2	1.86	0.56
12:AL:51:ALA:C	12:AL:52:LEU:HD23	2.24	0.56
13:AM:118:ALA:HB3	22:AV:29:G:H5''	1.88	0.56
17:AQ:57:VAL:HG12	17:AQ:76:LEU:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:75:ILE:C	18:AR:77:GLY:H	2.08	0.56
19:AS:9:VAL:O	19:AS:11:VAL:N	2.39	0.56
25:AZ:228:VAL:HG21	25:AZ:298:VAL:O	2.06	0.56
25:AZ:381:GLU:O	25:AZ:382:GLU:O	2.23	0.56
26:B0:47:PRO:HB3	26:B0:51:VAL:O	2.04	0.56
33:B7:19:ARG:NH2	36:BA:124:G:C5	2.73	0.56
35:B9:11:CYS:SG	35:B9:12:ASP:N	2.77	0.56
35:B9:17:ILE:HG21	35:B9:19:ARG:HH21	1.70	0.56
36:BA:302:C:O2'	36:BA:303:U:H5'	2.04	0.56
36:BA:320:A:C5	41:BF:136:THR:HG21	2.41	0.56
36:BA:321:G:H1'	41:BF:168:ARG:NH2	2.19	0.56
36:BA:448:U:H1'	41:BF:84:VAL:CG1	2.34	0.56
36:BA:587:C:C5	48:BP:33:ARG:HG2	2.40	0.56
36:BA:675:A:H4'	41:BF:67:GLN:OE1	2.05	0.56
36:BA:733:G:N7	36:BA:761:A:C6	2.74	0.56
36:BA:827:U:H5'	36:BA:828:U:O5'	2.06	0.56
36:BA:958:U:O4	49:BQ:17:LEU:HD21	2.04	0.56
36:BA:1268:A:H2'	36:BA:1269:A:H8	1.70	0.56
36:BA:1574:C:H2'	36:BA:1575:C:C6	2.40	0.56
36:BA:2027:G:O2'	36:BA:2028:U:H5'	2.04	0.56
36:BA:2110:G:N2	36:BA:2178:C:H5	2.03	0.56
36:BA:2123:G:O2'	36:BA:2124:G:H5'	2.06	0.56
36:BA:2145:C:H2'	36:BA:2147:G:H22	1.70	0.56
36:BA:2188:C:H2'	36:BA:2189:U:N1	2.19	0.56
36:BA:2386:C:H2'	36:BA:2387:U:C6	2.40	0.56
36:BA:2496:C:O2'	36:BA:2497:A:H5'	2.05	0.56
36:BA:2760:C:C3'	36:BA:2761:G:H5''	2.36	0.56
36:BA:2837:G:H2'	36:BA:2838:G:C8	2.34	0.56
39:BD:68:LYS:HB2	39:BD:70:TRP:CE2	2.41	0.56
40:BE:3:GLY:O	40:BE:4:ILE:HB	2.05	0.56
41:BF:25:PRO:HB3	41:BF:119:ARG:CB	2.35	0.56
41:BF:206:ILE:HG22	41:BF:207:GLY:N	2.13	0.56
42:BG:111:LEU:HB2	42:BG:112:PRO:HD3	1.87	0.56
42:BG:125:PHE:CZ	42:BG:173:LEU:HD12	2.39	0.56
43:BH:12:PRO:HA	43:BH:48:GLY:HA2	1.86	0.56
43:BH:26:VAL:CG1	43:BH:76:VAL:HA	2.36	0.56
43:BH:87:LEU:CD2	43:BH:164:TYR:HA	2.35	0.56
43:BH:127:GLU:OE1	43:BH:128:PRO:HD3	2.05	0.56
46:BN:36:GLY:H	46:BN:49:GLY:HA3	1.69	0.56
46:BN:134:ARG:N	46:BN:135:PRO:HD3	2.21	0.56
48:BP:95:VAL:HG23	48:BP:125:VAL:HG23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:70:PRO:CA	49:BQ:94:VAL:O	2.52	0.56
50:BR:29:LEU:O	50:BR:30:THR:HB	2.05	0.56
52:BT:85:LYS:HB3	52:BT:85:LYS:HZ2	1.66	0.56
53:BU:49:HIS:O	53:BU:53:ARG:N	2.30	0.56
53:BU:55:ARG:HG2	53:BU:58:ARG:CZ	2.35	0.56
53:BU:92:ARG:O	53:BU:94:ASN:N	2.38	0.56
56:BX:33:LYS:HD3	56:BX:33:LYS:N	2.20	0.56
57:BY:74:PRO:HG2	57:BY:81:LYS:O	2.04	0.56
58:BZ:146:ILE:HA	58:BZ:174:VAL:HG11	1.86	0.56
1:CA:286:G:O2'	1:CA:287:U:H5'	2.05	0.56
1:CA:404:U:C5'	4:CD:122:ARG:HD3	2.35	0.56
1:CA:522:C:N4	1:CA:528:C:H42	2.03	0.56
1:CA:563:A:N7	1:CA:567:G:H1'	2.21	0.56
1:CA:564:C:H2'	1:CA:565:U:O4'	2.05	0.56
1:CA:925:G:O5'	1:CA:925:G:H8	1.87	0.56
1:CA:1030(A):G:H1'	1:CA:1031:G:H1	1.71	0.56
1:CA:1047:G:H5''	14:CN:4:LYS:CE	2.26	0.56
1:CA:1125:U:N3	10:CJ:5:ARG:NH2	2.52	0.56
1:CA:1271:G:H5'	1:CA:1314:C:H5''	1.85	0.56
1:CA:1319:A:H5'	1:CA:1320:C:OP1	2.06	0.56
2:CB:130:ARG:NH1	2:CB:134:GLU:HG3	2.21	0.56
3:CC:113:ALA:HB3	3:CC:185:GLY:H	1.70	0.56
6:CF:7:ASN:OD1	6:CF:62:TRP:HD1	1.87	0.56
10:CJ:26:ALA:O	10:CJ:85:LEU:HD21	2.04	0.56
11:CK:23:ALA:CB	11:CK:28:THR:HG23	2.35	0.56
12:CL:89:ARG:HD2	12:CL:91:LYS:HB2	1.87	0.56
17:CQ:56:VAL:HG21	17:CQ:81:ARG:HG3	1.87	0.56
20:CT:96:GLY:O	20:CT:97:ALA:HB3	2.04	0.56
22:CW:38:A:H2'	22:CW:39:U:O4'	2.06	0.56
22:CW:58:A:H2'	22:CW:61:C:H41	1.69	0.56
24:CY:9:A:H2	24:CY:45:G:C6	2.23	0.56
26:D0:55:ARG:NH1	36:DA:2384:G:OP2	2.39	0.56
29:D3:15:TYR:HB3	29:D3:19:GLN:NE2	2.20	0.56
29:D3:49:LYS:O	29:D3:49:LYS:HG2	2.05	0.56
32:D6:5:VAL:HG21	36:DA:2283:C:H5'	1.87	0.56
32:D6:15:GLU:O	32:D6:16:CYS:C	2.43	0.56
33:D7:31:LEU:O	33:D7:33:ARG:N	2.39	0.56
36:DA:7:G:H21	36:DA:8:A:H1'	1.70	0.56
36:DA:36:G:H4'	36:DA:451:C:C2	2.41	0.56
36:DA:89:G:H3'	36:DA:90:U:C5'	2.32	0.56
36:DA:135:G:O2'	36:DA:136:G:H5'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:733:G:N7	36:DA:761:A:C6	2.73	0.56
36:DA:817:C:H4'	36:DA:932:G:C6	2.40	0.56
36:DA:1127:A:O2'	36:DA:2517:C:H4'	2.05	0.56
36:DA:1278:A:O2'	36:DA:1279:G:H5'	2.05	0.56
36:DA:1440:G:H2'	36:DA:1441:G:H8	1.70	0.56
36:DA:1470:G:H3'	36:DA:1519:G:O6	2.05	0.56
36:DA:1833:U:O2	36:DA:1969:A:H2	1.88	0.56
36:DA:2068:U:C2	36:DA:2430:A:H2	2.23	0.56
36:DA:2189:U:H2'	36:DA:2190:G:O4'	2.04	0.56
36:DA:2189:U:H3'	36:DA:2190:G:H5''	1.87	0.56
36:DA:2206:G:H5''	36:DA:2206:G:N3	2.20	0.56
36:DA:2233:U:H2'	36:DA:2234:G:H8	1.69	0.56
36:DA:2282:G:H2'	36:DA:2425:A:H61	1.70	0.56
36:DA:2312:U:H2'	36:DA:2313:C:H5'	1.87	0.56
36:DA:2422:A:C8	36:DA:2422:A:H3'	2.40	0.56
36:DA:2656:U:H2'	36:DA:2657:A:H5''	1.87	0.56
36:DA:2882:A:H5''	50:DR:98:LEU:HD21	1.87	0.56
37:DB:69:G:H2'	37:DB:69:G:N3	2.21	0.56
38:DC:139:ASN:OD1	38:DC:140:PRO:HD2	2.06	0.56
39:DD:145:VAL:HB	39:DD:155:LEU:HB2	1.87	0.56
39:DD:172:TYR:CD1	39:DD:186:HIS:HA	2.40	0.56
40:DE:54:GLN:O	40:DE:75:VAL:HG23	2.04	0.56
41:DF:57:VAL:CG1	41:DF:58:ALA:N	2.67	0.56
42:DG:7:LEU:HB3	42:DG:100:TRP:CE3	2.41	0.56
42:DG:34:LEU:HD12	42:DG:34:LEU:O	2.05	0.56
42:DG:140:ILE:C	42:DG:140:ILE:HD12	2.26	0.56
47:DO:23:ARG:HG3	47:DO:24:VAL:H	1.68	0.56
50:DR:45:ARG:O	50:DR:46:GLY:C	2.43	0.56
50:DR:77:ARG:C	50:DR:79:LEU:H	2.09	0.56
51:DS:24:LEU:CB	51:DS:85:VAL:HG12	2.35	0.56
54:DV:3:ALA:CB	54:DV:14:VAL:HG23	2.34	0.56
54:DV:66:ARG:HG2	54:DV:88:ARG:HB3	1.86	0.56
58:DZ:18:LEU:N	58:DZ:18:LEU:CD1	2.68	0.56
58:DZ:23:LYS:HD3	58:DZ:38:TYR:CE1	2.40	0.56
58:DZ:81:ARG:HB2	58:DZ:81:ARG:CZ	2.34	0.56
58:DZ:168:GLU:O	58:DZ:168:GLU:CG	2.54	0.56
1:AA:57:G:N1	1:AA:356:A:C6	2.74	0.56
1:AA:377:G:OP1	16:AP:5:ARG:HD3	2.05	0.56
1:AA:512:U:O5'	4:AD:43:HIS:HE1	1.88	0.56
1:AA:769:G:C2'	1:AA:770:C:H5'	2.35	0.56
1:AA:960:U:O2	1:AA:960:U:H2'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1047:G:H5'	14:AN:4:LYS:CE	2.25	0.56
1:AA:1238:A:OP1	1:AA:1335:C:H1'	2.05	0.56
1:AA:1399:C:C2	1:AA:1502:A:N6	2.73	0.56
1:AA:1401:G:H2'	1:AA:1402:C:H5'	1.85	0.56
1:AA:1519:A:H3'	1:AA:1520:G:C5'	2.35	0.56
2:AB:77:ALA:CA	2:AB:80:ILE:HD13	2.32	0.56
2:AB:134:GLU:C	2:AB:136:VAL:N	2.59	0.56
4:AD:91:SER:O	4:AD:92:VAL:C	2.43	0.56
10:AJ:38:ILE:HD11	10:AJ:71:LEU:HD23	1.87	0.56
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.88	0.56
13:AM:89:GLY:O	13:AM:90:LEU:O	2.21	0.56
14:AN:21:TYR:OH	14:AN:23:ARG:NH2	2.39	0.56
20:AT:86:ARG:O	20:AT:90:GLN:HG2	2.05	0.56
25:AZ:79:HIS:CD2	25:AZ:80:VAL:N	2.74	0.56
25:AZ:226:GLU:CG	25:AZ:240:GLY:HA2	2.35	0.56
26:B0:50:ASN:ND2	26:B0:63:VAL:HG21	2.19	0.56
28:B2:57:ILE:O	28:B2:61:LEU:N	2.36	0.56
35:B9:11:CYS:SG	35:B9:14:CYS:SG	3.03	0.56
36:BA:116:C:O2'	36:BA:126:A:N3	2.39	0.56
36:BA:197:A:N6	36:BA:2430:A:H2'	2.20	0.56
36:BA:978:G:H1	36:BA:985:C:N4	2.03	0.56
36:BA:1049:C:O2	36:BA:1113:U:H4'	2.04	0.56
36:BA:1675:C:O2	40:BE:129:HIS:HA	2.06	0.56
36:BA:1865:G:H5'	36:BA:1866:C:P	2.45	0.56
36:BA:1957:C:O2'	36:BA:1985:G:H1'	2.04	0.56
36:BA:2127:G:H2'	36:BA:2128:C:C6	2.41	0.56
36:BA:2243:U:H2'	36:BA:2244:U:C5	2.39	0.56
36:BA:2787:C:H1'	40:BE:61:ARG:HG3	1.87	0.56
37:BB:48:A:OP1	51:BS:93:LYS:HB3	2.05	0.56
37:BB:101:G:H2'	37:BB:102:A:O4'	2.04	0.56
38:BC:196:LEU:O	38:BC:197:GLU:C	2.44	0.56
42:BG:106:LEU:HD12	42:BG:110:ALA:HB3	1.88	0.56
45:BK:95:UNK:O	45:BK:97:UNK:N	2.38	0.56
46:BN:2:LYS:HZ1	54:BV:12:TYR:HA	1.70	0.56
48:BP:71:VAL:HG13	48:BP:72:PRO:HD3	1.86	0.56
49:BQ:140:ALA:O	49:BQ:141:GLN:HG2	2.05	0.56
51:BS:56:LEU:O	51:BS:56:LEU:HD23	2.05	0.56
52:BT:38:ASN:ND2	52:BT:40:THR:OG1	2.38	0.56
52:BT:78:LEU:O	52:BT:79:HIS:HD2	1.88	0.56
53:BU:17:ILE:HA	53:BU:20:LEU:HD23	1.88	0.56
53:BU:52:ARG:HA	53:BU:55:ARG:NH1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:71:C:H2'	1:CA:72:C:C6	2.39	0.56
1:CA:115:G:H4'	1:CA:116:A:O5'	2.05	0.56
1:CA:184:G:H2'	1:CA:185:A:H8	1.71	0.56
1:CA:751:U:C4'	15:CO:24:SER:HB2	2.34	0.56
1:CA:1499:A:C2'	1:CA:1500:A:H5'	2.35	0.56
2:CB:11:LEU:O	2:CB:14:GLY:N	2.39	0.56
3:CC:77:ILE:HG23	3:CC:84:ILE:CG2	2.35	0.56
5:CE:102:ALA:HB2	5:CE:120:THR:HG21	1.87	0.56
13:CM:14:ARG:N	13:CM:44:ARG:HH11	2.03	0.56
16:CP:41:PRO:O	16:CP:43:LYS:HG3	2.05	0.56
27:D1:64:ALA:O	27:D1:67:ILE:HG13	2.05	0.56
28:D2:54:LYS:HZ1	36:DA:60:G:H5''	1.71	0.56
30:D4:8:LYS:O	30:D4:9:LEU:CB	2.48	0.56
30:D4:20:ASN:HD22	30:D4:20:ASN:C	2.09	0.56
33:D7:10:ARG:O	33:D7:11:LYS:C	2.43	0.56
33:D7:11:LYS:NZ	36:DA:686:G:H5''	2.20	0.56
36:DA:177:G:H3'	36:DA:178:G:H8	1.70	0.56
36:DA:620:G:H4'	36:DA:621:A:OP1	2.04	0.56
36:DA:797:C:OP2	41:DF:62:ARG:HG3	2.05	0.56
36:DA:811:U:O2	36:DA:1251:C:C5	2.58	0.56
36:DA:828:U:H2'	36:DA:829:A:C8	2.40	0.56
36:DA:1528(A):A:H62	36:DA:1541:G:N2	2.03	0.56
36:DA:2290:G:H22	36:DA:2343:C:H1'	1.69	0.56
36:DA:2680:C:O2'	36:DA:2681:C:H5'	2.05	0.56
36:DA:2840:C:C5'	50:DR:53:HIS:CD2	2.82	0.56
38:DC:41:VAL:N	38:DC:176:GLY:O	2.38	0.56
39:DD:77:ALA:CB	39:DD:97:TYR:HA	2.35	0.56
41:DF:31:HIS:CG	48:DP:13:ASN:HB2	2.40	0.56
42:DG:88:ILE:CG2	42:DG:89:GLY:N	2.68	0.56
43:DH:85:LYS:HZ3	43:DH:133:VAL:N	1.90	0.56
47:DO:47:ILE:CG2	47:DO:48:PRO:HD2	2.28	0.56
50:DR:10:LEU:HD22	50:DR:17:ARG:HE	1.70	0.56
51:DS:56:LEU:C	51:DS:58:LEU:N	2.59	0.56
52:DT:6:LEU:HA	52:DT:9:LEU:HD12	1.87	0.56
1:AA:472:A:O2'	16:AP:81:ARG:HG3	2.06	0.56
1:AA:953:G:C2	1:AA:954:G:H1'	2.40	0.56
4:AD:109:GLY:HA3	4:AD:165:MET:HE2	1.87	0.56
5:AE:28:PHE:O	5:AE:47:LYS:HA	2.05	0.56
8:AH:86:ILE:HG13	8:AH:133:LEU:HD23	1.88	0.56
8:AH:109:ILE:CG1	8:AH:110:ALA:H	2.11	0.56
11:AK:21:ILE:HD12	11:AK:21:ILE:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:55:VAL:HG23	12:AL:68:ALA:C	2.26	0.56
12:AL:89:ARG:HD2	12:AL:91:LYS:HB2	1.88	0.56
14:AN:7:ILE:CG1	14:AN:8:GLU:H	2.19	0.56
20:AT:57:ARG:HH11	20:AT:103:GLY:N	2.02	0.56
21:AU:5:ASP:O	21:AU:7:ARG:N	2.39	0.56
26:B0:3:HIS:HB2	36:BA:2494:G:OP1	2.05	0.56
29:B3:4:LEU:HG	29:B3:39:ASP:HB2	1.87	0.56
36:BA:343:C:C2'	36:BA:344:G:O5'	2.54	0.56
36:BA:678:C:H2'	36:BA:679:C:C6	2.41	0.56
36:BA:723:G:C2	36:BA:724:U:C2	2.94	0.56
36:BA:733:G:O5'	36:BA:733:G:C8	2.57	0.56
36:BA:736:C:O2'	36:BA:737:C:H5'	2.06	0.56
36:BA:851:U:O2'	36:BA:852:G:H5'	2.05	0.56
36:BA:2138:C:O2'	36:BA:2139:C:H5'	2.06	0.56
36:BA:2685:G:HO2'	36:BA:2726:U:H5	1.54	0.56
36:BA:2820:A:H4'	50:BR:5:LYS:HE2	1.87	0.56
37:BB:8:U:H2'	37:BB:9:G:C8	2.40	0.56
39:BD:28:GLU:N	39:BD:28:GLU:OE2	2.39	0.56
40:BE:95:ILE:HD13	40:BE:95:ILE:N	2.20	0.56
40:BE:201:THR:HG23	40:BE:203:LYS:H	1.70	0.56
42:BG:44:GLY:O	42:BG:46:ALA:N	2.38	0.56
42:BG:117:PHE:CD2	42:BG:118:ARG:N	2.74	0.56
42:BG:122:PRO:HD3	42:BG:181:ARG:HB3	1.88	0.56
44:BJ:45:UNK:O	44:BJ:49:UNK:HA	2.06	0.56
47:BO:4:PRO:O	47:BO:5:GLN:CB	2.53	0.56
49:BQ:37:LEU:HD21	49:BQ:129:THR:C	2.25	0.56
51:BS:96:GLY:O	51:BS:98:VAL:N	2.38	0.56
1:CA:154:C:H2'	1:CA:155:C:C6	2.40	0.56
1:CA:189(H):G:O2'	1:CA:189(I):G:H8	1.87	0.56
1:CA:1030:C:C2'	1:CA:1030(A):G:H5'	2.36	0.56
1:CA:1109:C:C2'	1:CA:1110:A:H5'	2.34	0.56
1:CA:1151:A:H1'	10:CJ:39:PRO:HB2	1.87	0.56
2:CB:89:GLY:O	2:CB:90:MET:HG2	2.06	0.56
2:CB:147:LYS:O	2:CB:147:LYS:HG2	2.05	0.56
3:CC:20:SER:HB2	3:CC:40:ARG:NH2	2.20	0.56
3:CC:66:VAL:O	3:CC:66:VAL:HG12	2.05	0.56
9:CI:112:LYS:HA	9:CI:119:ALA:HB2	1.87	0.56
12:CL:17:LYS:CD	12:CL:18:VAL:HG22	2.35	0.56
14:CN:7:ILE:CG1	14:CN:8:GLU:H	2.19	0.56
15:CO:17:ARG:HG3	15:CO:17:ARG:HH11	1.69	0.56
25:CZ:311:THR:HG1	25:CZ:313:HIS:HE2	1.49	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:322:VAL:HG11	25:CZ:364:PRO:HA	1.88	0.56
28:D2:47:ASN:O	28:D2:50:ILE:CD1	2.53	0.56
36:DA:584:C:C2'	36:DA:585:G:H5'	2.36	0.56
36:DA:860:U:C2'	36:DA:861:A:H5'	2.34	0.56
36:DA:1049:C:O2	36:DA:1113:U:H4'	2.05	0.56
36:DA:1252:G:O2'	36:DA:1253:A:H5''	2.05	0.56
36:DA:1409:C:O5'	36:DA:1409:C:H6	1.89	0.56
36:DA:2038:G:H2'	36:DA:2039:C:O4'	2.06	0.56
36:DA:2475:C:H42	36:DA:2529:G:N2	2.03	0.56
36:DA:2880:C:H3'	36:DA:2880:C:C6	2.40	0.56
39:DD:261:LYS:HZ3	39:DD:263:ARG:HB2	1.68	0.56
40:DE:135:HIS:O	40:DE:136:ARG:HG3	2.05	0.56
41:DF:117:ARG:HG2	41:DF:192:LEU:CD1	2.35	0.56
47:DO:87:ILE:HD13	47:DO:93:PRO:HA	1.86	0.56
48:DP:36:LYS:HD2	48:DP:41:ARG:HB3	1.88	0.56
50:DR:28:LEU:HD23	50:DR:28:LEU:C	2.25	0.56
1:AA:53:A:N6	1:AA:54:C:C4	2.74	0.56
1:AA:524:G:C6	1:AA:525:C:N4	2.74	0.56
1:AA:599:C:H4'	8:AH:130:GLY:HA3	1.87	0.56
1:AA:749:C:O2'	1:AA:750:G:H5'	2.06	0.56
1:AA:943:U:C2'	1:AA:944:G:H5'	2.36	0.56
1:AA:955:U:O2'	1:AA:956:U:H5'	2.06	0.56
1:AA:1046:A:H3'	1:AA:1047:G:H8	1.70	0.56
1:AA:1477:C:H2'	1:AA:1478:C:H6	1.70	0.56
1:AA:1507:A:H61	1:AA:1528:U:H3	1.53	0.56
2:AB:162:ILE:HG22	2:AB:183:PRO:O	2.05	0.56
3:AC:113:ALA:CB	3:AC:185:GLY:H	2.18	0.56
8:AH:34:GLU:O	8:AH:35:ILE:C	2.43	0.56
10:AJ:90:LEU:N	10:AJ:91:PRO:HD3	2.21	0.56
13:AM:120:LYS:HA	13:AM:120:LYS:CE	2.36	0.56
16:AP:8:ARG:HH11	16:AP:8:ARG:HG2	1.70	0.56
20:AT:31:SER:HA	20:AT:34:LYS:HD2	1.87	0.56
20:AT:89:ARG:HH21	20:AT:104:LEU:HD21	1.70	0.56
24:AY:75:C:C6	25:AZ:231:ILE:HA	2.40	0.56
28:B2:43:GLN:O	28:B2:44:LEU:CB	2.53	0.56
32:B6:36:LEU:HD12	32:B6:50:ARG:HH22	1.65	0.56
36:BA:295:G:H5'	57:BY:3:VAL:HG22	1.88	0.56
36:BA:298:G:H5'	36:BA:299:A:OP1	2.05	0.56
36:BA:612:C:H2'	36:BA:613:G:H5''	1.81	0.56
36:BA:1440:G:H22	36:BA:1552:G:H1'	1.71	0.56
36:BA:1536:C:H2'	36:BA:1537:G:C4'	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2393:A:H2'	36:BA:2394:C:H5'	1.88	0.56
36:BA:2513:G:C2	36:BA:2514:U:C2	2.94	0.56
36:BA:2680:C:O2'	36:BA:2681:C:H5'	2.06	0.56
39:BD:44:ASN:OD1	39:BD:44:ASN:N	2.38	0.56
40:BE:199:ARG:HG2	40:BE:200:GLU:N	2.11	0.56
41:BF:24:LEU:CB	41:BF:25:PRO:CD	2.78	0.56
41:BF:42:ALA:C	41:BF:44:ARG:H	2.09	0.56
41:BF:170:LEU:O	41:BF:173:VAL:HB	2.06	0.56
49:BQ:86:GLY:O	49:BQ:87:LYS:HB2	2.05	0.56
50:BR:54:LEU:HB3	50:BR:62:ALA:HB1	1.86	0.56
51:BS:106:ARG:NH1	51:BS:107:GLU:N	2.40	0.56
52:BT:107:ASP:OD1	52:BT:109:GLU:HB2	2.05	0.56
54:BV:71:LEU:HD21	54:BV:84:LYS:HE2	1.87	0.56
57:BY:86:ARG:HD2	57:BY:88:LYS:HE3	1.88	0.56
1:CA:506:G:H2'	1:CA:507:C:H6	1.70	0.56
1:CA:972:C:O3'	10:CJ:57:LYS:HG3	2.06	0.56
1:CA:1044:A:H2'	1:CA:1045:C:O4'	2.05	0.56
1:CA:1249:C:H5''	9:CI:70:LYS:HZ3	1.69	0.56
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.41	0.56
4:CD:121:VAL:HG12	4:CD:134:ASP:C	2.25	0.56
5:CE:28:PHE:O	5:CE:47:LYS:HA	2.06	0.56
18:CR:37:VAL:O	18:CR:41:LYS:N	2.30	0.56
22:CW:50:U:O2'	22:CW:51:U:H5'	2.06	0.56
27:D1:50:ARG:HG2	27:D1:59:THR:HG22	1.88	0.56
31:D5:52:TYR:CD1	31:D5:52:TYR:O	2.59	0.56
33:D7:40:TRP:CE3	36:DA:459:U:H4'	2.40	0.56
36:DA:464:U:C2'	36:DA:465:G:H5'	2.35	0.56
36:DA:584:C:H2'	36:DA:585:G:C5'	2.34	0.56
36:DA:611:C:H2'	36:DA:612:C:C6	2.36	0.56
36:DA:711:G:H1	36:DA:720:C:N4	2.04	0.56
36:DA:1390:U:C2'	36:DA:1391:U:H5'	2.36	0.56
36:DA:1902:C:C1'	39:DD:244:ARG:HG3	2.36	0.56
36:DA:2110:G:O2'	36:DA:2111:C:OP1	2.23	0.56
36:DA:2303:G:C5'	42:DG:126:ASP:HB2	2.35	0.56
36:DA:2558:C:H2'	36:DA:2559:C:H6	1.71	0.56
36:DA:2636:U:H4'	40:DE:80:GLU:OE1	2.06	0.56
39:DD:39:LYS:HB2	39:DD:62:TYR:HB2	1.87	0.56
39:DD:229:VAL:HG23	39:DD:230:ASP:N	2.20	0.56
41:DF:51:THR:HG21	41:DF:91:GLY:CA	2.32	0.56
42:DG:46:ALA:HB3	42:DG:88:ILE:HG12	1.88	0.56
52:DT:77:PRO:O	52:DT:78:LEU:CB	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:98:VAL:O	57:DY:99:CYS:HB2	2.05	0.56
1:AA:1039:C:H2'	1:AA:1040:U:C6	2.40	0.56
1:AA:1054:C:O2	1:AA:1054:C:C3'	2.53	0.56
1:AA:1281:U:H3'	1:AA:1282:C:C6	2.40	0.56
2:AB:154:LEU:O	2:AB:156:LYS:HG3	2.06	0.56
2:AB:189:ASP:O	2:AB:191:ASP:N	2.39	0.56
3:AC:165:THR:O	3:AC:165:THR:HG23	2.05	0.56
4:AD:173:TRP:HB3	4:AD:187:ARG:HH22	1.68	0.56
7:AG:23:VAL:HG13	7:AG:43:PHE:CE2	2.40	0.56
7:AG:42:ILE:CG2	7:AG:117:ALA:HA	2.31	0.56
10:AJ:26:ALA:O	10:AJ:85:LEU:HD21	2.06	0.56
20:AT:74:LYS:HD3	20:AT:74:LYS:N	2.21	0.56
25:AZ:220:PRO:O	25:AZ:245:GLY:HA3	2.06	0.56
25:AZ:367:ASN:N	25:AZ:367:ASN:ND2	2.50	0.56
26:B0:25:ARG:HH21	26:B0:35:ASN:HD22	1.52	0.56
27:B1:25:LYS:CD	36:BA:388:G:H4'	2.32	0.56
29:B3:7:LYS:HB3	29:B3:55:ARG:HB2	1.88	0.56
31:B5:12:SER:HB3	36:BA:2020:A:H5'	1.87	0.56
34:B8:50:LEU:CD1	34:B8:51:ALA:H	2.08	0.56
35:B9:30:PRO:C	35:B9:32:HIS:H	2.07	0.56
36:BA:477:A:H2'	36:BA:478:A:C8	2.41	0.56
36:BA:747:U:C5	36:BA:2613:U:C5	2.94	0.56
36:BA:880:G:H2'	36:BA:881:G:H8	1.71	0.56
36:BA:1020:A:C2	36:BA:1141:U:H1'	2.40	0.56
36:BA:1252:G:O2'	36:BA:1253:A:H5''	2.04	0.56
36:BA:1342:A:OP2	36:BA:1602:U:O4	2.24	0.56
36:BA:2584:U:H2'	36:BA:2585:U:H5'	1.87	0.56
36:BA:2720:U:H2'	36:BA:2720:U:O2	2.04	0.56
37:BB:44:G:O2'	37:BB:45:A:H5''	2.04	0.56
41:BF:60:SER:O	41:BF:77:ASP:HB2	2.06	0.56
46:BN:6:PRO:O	46:BN:7:LYS:O	2.23	0.56
47:BO:111:PHE:HB3	47:BO:114:ILE:CD1	2.30	0.56
48:BP:23:PRO:HA	48:BP:29:LYS:O	2.06	0.56
48:BP:91:PHE:N	48:BP:91:PHE:CD1	2.73	0.56
49:BQ:10:ARG:HB2	49:BQ:10:ARG:HH11	1.70	0.56
49:BQ:55:VAL:HG23	58:BZ:178:GLU:CG	2.36	0.56
52:BT:28:VAL:HG11	52:BT:46:GLU:OE1	2.05	0.56
52:BT:32:TYR:N	52:BT:32:TYR:HD2	2.03	0.56
52:BT:58:ASN:O	52:BT:60:THR:HG23	2.06	0.56
53:BU:92:ARG:O	53:BU:93:LYS:C	2.44	0.56
55:BW:42:ARG:O	55:BW:42:ARG:HG2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:153:SER:N	58:BZ:167:PRO:CB	2.65	0.56
1:CA:512:U:O5'	4:CD:43:HIS:CE1	2.59	0.56
1:CA:811:C:H4'	1:CA:900:A:H62	1.68	0.56
1:CA:991:U:H2'	1:CA:991:U:O2	2.04	0.56
1:CA:1190:G:P	3:CC:5:ILE:HG23	2.46	0.56
1:CA:1269:A:H2'	1:CA:1270:C:H5'	1.87	0.56
1:CA:1433:A:H2'	1:CA:1434:A:C8	2.41	0.56
1:CA:1440:C:C2'	1:CA:1441:G:H5'	2.35	0.56
1:CA:1447:A:N3	1:CA:1447:A:H2'	2.21	0.56
5:CE:20:GLN:HE22	5:CE:25:ARG:NH2	2.04	0.56
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.88	0.56
6:CF:33:TYR:CB	6:CF:75:LEU:HD13	2.36	0.56
7:CG:31:MET:CG	7:CG:32:ARG:N	2.68	0.56
7:CG:104:LEU:O	7:CG:107:ALA:HB3	2.06	0.56
8:CH:20:TYR:HA	8:CH:65:TYR:HE2	1.71	0.56
9:CI:110:GLU:HG2	9:CI:113:LYS:HZ1	1.70	0.56
15:CO:3:ILE:HG23	15:CO:38:ARG:NH2	2.20	0.56
29:D3:52:HIS:CD2	29:D3:52:HIS:H	2.24	0.56
30:D4:42:PHE:O	30:D4:42:PHE:CD2	2.58	0.56
31:D5:6:VAL:O	31:D5:6:VAL:HG13	2.06	0.56
34:D8:59:LYS:O	34:D8:60:LEU:HD23	2.05	0.56
36:DA:372:G:O2'	36:DA:373:U:OP2	2.24	0.56
36:DA:391:G:O5'	36:DA:391:G:H8	1.88	0.56
36:DA:481:G:H4'	36:DA:481:G:OP1	2.04	0.56
36:DA:823:G:N2	36:DA:2358:G:C8	2.74	0.56
36:DA:2386:C:H2'	36:DA:2387:U:C6	2.41	0.56
36:DA:2639:A:H2'	36:DA:2640:G:O4'	2.06	0.56
41:DF:168:ARG:HG2	41:DF:169:ASN:H	1.70	0.56
41:DF:185:ASP:HA	41:DF:188:ARG:HG2	1.87	0.56
42:DG:7:LEU:HB3	42:DG:100:TRP:HE3	1.69	0.56
42:DG:40:ASN:ND2	42:DG:90:LEU:O	2.38	0.56
42:DG:154:GLY:O	42:DG:155:MET:HB3	2.04	0.56
43:DH:66:GLY:HA2	43:DH:69:ARG:HB3	1.87	0.56
43:DH:83:TYR:HB2	43:DH:135:GLY:N	2.14	0.56
46:DN:39:ARG:C	46:DN:41:ASP:H	2.08	0.56
48:DP:88:LEU:HD21	48:DP:95:VAL:HG21	1.86	0.56
51:DS:49:VAL:CG1	51:DS:50:SER:H	2.02	0.56
51:DS:66:ALA:HB1	51:DS:99:LYS:HD3	1.88	0.56
52:DT:94:ALA:O	52:DT:96:ARG:N	2.39	0.56
53:DU:28:ARG:HD3	53:DU:38:THR:CG2	2.36	0.56
1:AA:80:G:O2'	1:AA:81:U:H5'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:668:G:H2'	1:AA:669:U:C6	2.41	0.56
1:AA:977:A:O2'	1:AA:978:A:H5'	2.05	0.56
1:AA:1195:C:H5''	1:AA:1196:U:OP2	2.05	0.56
2:AB:16:HIS:HB3	2:AB:210:SER:OG	2.06	0.56
2:AB:121:LEU:O	2:AB:122:PHE:C	2.43	0.56
4:AD:100:ARG:HB3	4:AD:103:ASN:HB3	1.88	0.56
5:AE:145:LYS:O	5:AE:148:VAL:HB	2.06	0.56
10:AJ:17:ASP:HB2	10:AJ:70:ARG:NH2	2.21	0.56
18:AR:25:THR:HG22	18:AR:42:ARG:NH1	2.21	0.56
18:AR:55:ARG:HG3	18:AR:55:ARG:HH11	1.71	0.56
20:AT:96:GLY:O	20:AT:97:ALA:HB3	2.06	0.56
27:B1:5:CYS:SG	27:B1:62:VAL:HA	2.46	0.56
28:B2:17:SER:HB2	28:B2:20:GLU:HB3	1.88	0.56
33:B7:15:THR:HG22	33:B7:16:HIS:CD2	2.40	0.56
34:B8:61:LEU:CD1	34:B8:62:LEU:HG	2.34	0.56
35:B9:19:ARG:O	35:B9:21:GLY:N	2.37	0.56
36:BA:410:G:N2	36:BA:2407:G:C6	2.74	0.56
36:BA:496:G:H1'	55:BW:61:ASN:ND2	2.20	0.56
36:BA:812:C:H2'	36:BA:813:U:H6	1.70	0.56
36:BA:863:A:H2'	36:BA:864:G:H8	1.68	0.56
36:BA:959:A:O2'	36:BA:960:A:H5'	2.05	0.56
36:BA:1057:A:O2'	36:BA:1058:G:H5'	2.06	0.56
36:BA:1138:G:C2	36:BA:1139:G:H1'	2.41	0.56
36:BA:1390:U:C2'	36:BA:1391:U:H5'	2.36	0.56
36:BA:1798:U:C2	36:BA:1822:G:N2	2.73	0.56
36:BA:1840:G:H1	36:BA:1902:C:H42	1.54	0.56
36:BA:2762:G:H8	36:BA:2762:G:C5'	2.15	0.56
41:BF:132:VAL:HG13	41:BF:133:ASN:N	2.20	0.56
41:BF:168:ARG:O	41:BF:169:ASN:C	2.44	0.56
41:BF:185:ASP:HA	41:BF:188:ARG:HG2	1.88	0.56
46:BN:16:ILE:CD1	46:BN:139:GLU:N	2.69	0.56
52:BT:26:ASP:H	52:BT:90:GLN:HA	1.71	0.56
53:BU:88:ILE:C	53:BU:90:VAL:N	2.58	0.56
53:BU:92:ARG:HH22	54:BV:10:LYS:HG2	1.71	0.56
53:BU:102:GLU:HB2	53:BU:105:VAL:HB	1.86	0.56
54:BV:4:ILE:HB	54:BV:39:LEU:O	2.05	0.56
55:BW:5:ALA:HB3	55:BW:105:VAL:HB	1.88	0.56
58:BZ:77:ASP:HA	58:BZ:84:GLU:OE1	2.06	0.56
1:CA:376:G:OP2	16:CP:67:THR:HG21	2.06	0.56
1:CA:381:C:H2'	1:CA:382:A:O4'	2.04	0.56
1:CA:920:U:O4'	1:CA:1080:A:N1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:973:G:C6	1:CA:974:A:N6	2.74	0.56
1:CA:1082:G:C2'	1:CA:1083:U:H5'	2.35	0.56
2:CB:17:PHE:HB3	2:CB:44:LEU:HD21	1.87	0.56
3:CC:18:TRP:N	3:CC:18:TRP:HE3	2.04	0.56
4:CD:98:GLU:CG	4:CD:189:PRO:HG3	2.35	0.56
8:CH:23:SER:HB2	8:CH:62:TYR:HA	1.88	0.56
20:CT:26:ASN:ND2	20:CT:26:ASN:H	2.04	0.56
25:CZ:271:GLU:HG2	25:CZ:276:THR:CA	2.35	0.56
25:CZ:290:LEU:O	25:CZ:293:VAL:HG22	2.06	0.56
25:CZ:320:VAL:HG12	25:CZ:321:TYR:N	2.20	0.56
25:CZ:367:ASN:N	25:CZ:367:ASN:ND2	2.51	0.56
28:D2:53:LEU:O	28:D2:56:GLN:HB2	2.05	0.56
36:DA:225:A:C2'	36:DA:226:G:H5'	2.36	0.56
36:DA:584:C:OP1	53:DU:6:THR:HB	2.06	0.56
36:DA:996:A:H1'	53:DU:92:ARG:HE	1.70	0.56
36:DA:1396:U:H2'	36:DA:1396:U:O2	2.06	0.56
36:DA:1493:C:H4'	36:DA:1494:A:OP1	2.06	0.56
36:DA:1525:G:H2'	36:DA:1526:G:H8	1.70	0.56
37:DB:72:G:H21	37:DB:104:U:H5	1.52	0.56
39:DD:76:PRO:O	39:DD:98:VAL:HG23	2.05	0.56
42:DG:104:GLU:OE1	42:DG:104:GLU:HA	2.05	0.56
46:DN:17:ASP:OD2	46:DN:19:GLU:HB3	2.05	0.56
47:DO:91:LEU:HD13	47:DO:111:PHE:CE1	2.40	0.56
49:DQ:5:ARG:O	49:DQ:6:ARG:HG2	2.04	0.56
51:DS:13:ARG:HG2	51:DS:13:ARG:HH11	1.70	0.56
51:DS:83:LYS:C	51:DS:105:ALA:HB3	2.26	0.56
53:DU:27:LEU:O	53:DU:31:SER:HB3	2.06	0.56
53:DU:76:TYR:OH	53:DU:93:LYS:HE3	2.05	0.56
57:DY:8:LYS:H	57:DY:8:LYS:CD	2.00	0.56
57:DY:47:LYS:HA	57:DY:60:PHE:CZ	2.41	0.56
58:DZ:10:ARG:HB3	58:DZ:36:LYS:C	2.25	0.56
58:DZ:27:VAL:HG22	58:DZ:28:MET:O	2.06	0.56
58:DZ:27:VAL:HG12	58:DZ:85:HIS:HE2	1.71	0.56
1:AA:489:C:H2'	1:AA:490:G:H8	1.70	0.56
1:AA:577:G:H1'	1:AA:816:A:C4	2.40	0.56
1:AA:854:G:H3'	1:AA:871:U:O4	2.06	0.56
1:AA:951:G:C6	1:AA:1231:G:C6	2.93	0.56
1:AA:1286:A:O2'	1:AA:1287:A:H5''	2.06	0.56
1:AA:1363:C:H5'	1:AA:1363(A):A:O5'	2.06	0.56
1:AA:1481:U:C2	1:AA:1482:G:N7	2.74	0.56
2:AB:100:GLY:O	2:AB:102:LEU:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:121:ALA:HA	3:AC:124:ILE:HD12	1.88	0.56
4:AD:2:GLY:O	4:AD:4:TYR:N	2.38	0.56
7:AG:41:ARG:O	7:AG:44:TYR:HB2	2.06	0.56
9:AI:128:ARG:HG2	9:AI:128:ARG:OXT	2.06	0.56
13:AM:116:THR:HG22	13:AM:117:VAL:N	2.21	0.56
16:AP:6:LEU:HD12	16:AP:6:LEU:N	2.21	0.56
17:AQ:61:GLU:HA	17:AQ:71:PHE:CE1	2.40	0.56
25:AZ:24:LYS:HA	25:AZ:105:VAL:HG21	1.87	0.56
28:B2:22:GLU:HA	28:B2:64:LEU:HD11	1.88	0.56
29:B3:23:LEU:C	29:B3:25:ALA:N	2.60	0.56
31:B5:16:ARG:HH11	31:B5:20:ARG:HH11	1.54	0.56
32:B6:16:CYS:O	32:B6:17:LYS:CG	2.52	0.56
36:BA:282:A:H2'	36:BA:282:A:N3	2.19	0.56
36:BA:306:U:C4	36:BA:307:G:C6	2.94	0.56
36:BA:320:A:C6	41:BF:136:THR:HG21	2.41	0.56
36:BA:693:C:H42	36:BA:769:G:H1	1.52	0.56
36:BA:777:A:H2'	36:BA:778:G:H8	1.70	0.56
36:BA:817:C:H4'	36:BA:932:G:C6	2.40	0.56
36:BA:1216:G:N2	36:BA:1234:U:H1'	2.20	0.56
36:BA:1665:A:H4'	47:BO:67:LYS:HB2	1.88	0.56
36:BA:1667:G:O2'	36:BA:1991:U:O4	2.24	0.56
36:BA:1758:G:N7	36:BA:2695:C:H4'	2.21	0.56
36:BA:1771:C:C5	36:BA:1772:G:N7	2.74	0.56
36:BA:1775:U:O2'	36:BA:1776:G:H5'	2.06	0.56
36:BA:2284:C:H42	36:BA:2384:G:H1	1.54	0.56
36:BA:2821:A:OP2	40:BE:110:GLY:HA3	2.05	0.56
37:BB:76:G:H5''	58:BZ:15:PRO:HB2	1.88	0.56
42:BG:11:TYR:OH	42:BG:16:ARG:NH2	2.39	0.56
48:BP:88:LEU:HD13	48:BP:100:LEU:HD21	1.87	0.56
49:BQ:67:ARG:N	49:BQ:103:MET:O	2.38	0.56
54:BV:82:ARG:HD2	54:BV:82:ARG:N	2.21	0.56
57:BY:95:LYS:HE3	57:BY:100:ALA:HB2	1.88	0.56
1:CA:507:C:H3'	1:CA:508:C:H6	1.70	0.56
1:CA:512:U:O5'	4:CD:43:HIS:HE1	1.89	0.56
1:CA:1191:A:H5''	3:CC:4:LYS:NZ	2.19	0.56
2:CB:204:ASN:ND2	2:CB:206:ASP:N	2.49	0.56
3:CC:120:VAL:CG1	3:CC:121:ALA:N	2.69	0.56
8:CH:118:VAL:C	8:CH:119:LEU:HD23	2.27	0.56
9:CI:18:PHE:HB2	9:CI:62:TYR:HB3	1.87	0.56
9:CI:52:ALA:HB3	9:CI:95:LYS:CE	2.28	0.56
10:CJ:14:LYS:O	10:CJ:16:LEU:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:10:VAL:CG2	17:CQ:55:ASP:HB2	2.36	0.56
17:CQ:37:LYS:O	17:CQ:38:ARG:HB2	2.05	0.56
18:CR:37:VAL:HG12	18:CR:78:LEU:HB3	1.88	0.56
20:CT:19:SER:O	20:CT:21:LYS:N	2.39	0.56
20:CT:36:LEU:HD12	20:CT:59:ALA:HB2	1.88	0.56
25:CZ:106:VAL:O	25:CZ:136:ASN:N	2.38	0.56
25:CZ:348:ASP:OD1	25:CZ:348:ASP:O	2.24	0.56
34:D8:8:LYS:HE2	34:D8:11:LYS:HE2	1.88	0.56
36:DA:444:C:H4'	53:DU:2:PRO:HD3	1.87	0.56
36:DA:1064:C:N4	36:DA:1074:G:H22	2.03	0.56
36:DA:1189:A:C2	36:DA:1190:G:H1'	2.40	0.56
36:DA:1242:A:N6	48:DP:8:PRO:HG3	2.21	0.56
36:DA:1708:C:H2'	36:DA:1709:U:H6	1.70	0.56
36:DA:2127:G:H2'	36:DA:2128:C:C6	2.40	0.56
37:DB:17:C:H2'	37:DB:18:G:O4'	2.06	0.56
42:DG:38:VAL:HG22	42:DG:93:THR:HA	1.87	0.56
43:DH:26:VAL:CG1	43:DH:76:VAL:HA	2.36	0.56
50:DR:13:HIS:CE1	50:DR:16:HIS:N	2.69	0.56
50:DR:56:LYS:O	50:DR:58:GLY:N	2.39	0.56
50:DR:61:HIS:HE1	50:DR:65:LEU:HD22	1.70	0.56
55:DW:11:ARG:HH21	55:DW:12:ILE:HA	1.70	0.56
1:AA:80:G:H3'	1:AA:81:U:H5'	1.86	0.56
1:AA:172:A:C8	1:AA:174:C:C4	2.94	0.56
1:AA:245:C:O2'	1:AA:246:A:O5'	2.23	0.56
1:AA:594:G:H2'	1:AA:595:G:H5'	1.88	0.56
1:AA:678:U:H2'	1:AA:679:C:O4'	2.06	0.56
1:AA:1367:C:H5'	10:AJ:60:ARG:NH2	2.21	0.56
1:AA:1499:A:H1'	1:AA:1520:G:C5'	2.36	0.56
2:AB:121:LEU:CD2	2:AB:127:ILE:HD11	2.32	0.56
7:AG:12:LEU:CD1	7:AG:25:ALA:HB2	2.25	0.56
8:AH:6:ILE:O	8:AH:9:MET:N	2.39	0.56
12:AL:55:VAL:HG22	12:AL:56:ALA:N	2.20	0.56
13:AM:45:VAL:O	13:AM:48:LEU:HG	2.06	0.56
18:AR:47:THR:HB	18:AR:49:LYS:HZ2	1.71	0.56
22:AV:56:C:C2	42:BG:83:ARG:HD3	2.41	0.56
25:AZ:320:VAL:HG12	25:AZ:321:TYR:N	2.21	0.56
27:B1:84:GLY:C	27:B1:86:SER:H	2.09	0.56
28:B2:69:ARG:NH2	36:BA:111:A:O3'	2.39	0.56
29:B3:49:LYS:O	29:B3:49:LYS:HG2	2.06	0.56
30:B4:20:ASN:HD22	30:B4:20:ASN:C	2.08	0.56
31:B5:6:VAL:H	36:BA:2056:G:N2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:60:LEU:O	34:B8:63:PRO:HG2	2.05	0.56
36:BA:223:A:C5	36:BA:422:A:H1'	2.41	0.56
36:BA:452:G:OP1	41:BF:57:VAL:HG13	2.05	0.56
36:BA:497:A:H2'	36:BA:498:G:C8	2.41	0.56
36:BA:552:G:H1'	36:BA:1220:A:N1	2.21	0.56
36:BA:1061:U:H4'	36:BA:1070:A:C4'	2.35	0.56
36:BA:1107:G:OP1	44:BJ:58:UNK:CB	2.54	0.56
36:BA:1189:A:C2	36:BA:1190:G:H1'	2.41	0.56
36:BA:1453:U:H5'	50:BR:63:ARG:NE	2.21	0.56
36:BA:1471:A:H3'	36:BA:1472:A:H8	1.71	0.56
36:BA:1491:G:H5'	39:BD:99:ASP:OD1	2.06	0.56
36:BA:1622:G:H2'	36:BA:1623:G:H8	1.70	0.56
36:BA:1639:U:C2'	36:BA:1640:C:H5''	2.36	0.56
36:BA:2677:G:H2'	36:BA:2678:C:C6	2.41	0.56
39:BD:247:ALA:HB1	39:BD:252:TRP:O	2.05	0.56
41:BF:38:ARG:O	41:BF:42:ALA:HB2	2.06	0.56
43:BH:66:GLY:HA2	43:BH:69:ARG:HB3	1.88	0.56
52:BT:52:ILE:O	52:BT:52:ILE:HG22	2.06	0.56
53:BU:76:TYR:CE2	53:BU:80:ILE:HG13	2.41	0.56
55:BW:36:LEU:HD23	55:BW:36:LEU:N	2.08	0.56
55:BW:72:LYS:HG3	55:BW:108:GLY:HA3	1.87	0.56
57:BY:8:LYS:HB2	57:BY:28:LYS:HZ3	1.68	0.56
1:CA:44:G:C6	1:CA:45:U:C2	2.94	0.56
1:CA:57:G:H2'	1:CA:58:C:C6	2.41	0.56
1:CA:628:G:O2'	1:CA:629:G:H5'	2.06	0.56
1:CA:665:A:H2'	1:CA:725:G:H22	1.69	0.56
1:CA:676:A:H1'	11:CK:115:PRO:HB3	1.87	0.56
1:CA:932:C:H2'	1:CA:933:G:C8	2.41	0.56
1:CA:1054:C:C4	24:CY:34:G:H1'	2.39	0.56
1:CA:1286:A:O2'	1:CA:1287:A:H5''	2.05	0.56
1:CA:1503:A:N9	23:CX:16:A:N6	2.54	0.56
10:CJ:24:VAL:O	10:CJ:27:ALA:N	2.39	0.56
12:CL:86:ARG:HB2	12:CL:101:VAL:HG22	1.88	0.56
13:CM:6:GLY:O	13:CM:8:GLU:N	2.39	0.56
13:CM:56:LEU:C	13:CM:56:LEU:HD13	2.26	0.56
16:CP:22:THR:HA	16:CP:33:ILE:HG12	1.87	0.56
25:CZ:136:ASN:C	25:CZ:138:VAL:N	2.59	0.56
25:CZ:171:ILE:CG1	25:CZ:201:GLU:HB3	2.34	0.56
36:DA:36:G:O2'	36:DA:37:C:H5'	2.06	0.56
36:DA:185:U:C2	36:DA:212:G:N2	2.74	0.56
36:DA:315:G:H2'	36:DA:316:C:C6	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:325:G:H2'	36:DA:326:G:H8	1.71	0.56
36:DA:444:C:H2'	36:DA:445:C:O5'	2.06	0.56
36:DA:471:A:C2'	36:DA:472:A:H5''	2.36	0.56
36:DA:2086:U:OP2	39:DD:263:ARG:NH2	2.36	0.56
36:DA:2508:G:C2	36:DA:2582:G:O6	2.59	0.56
38:DC:70:LYS:HE3	38:DC:70:LYS:HA	1.86	0.56
40:DE:29:GLY:HA2	40:DE:180:ASN:CG	2.26	0.56
41:DF:20:LEU:H	41:DF:24:LEU:CD2	2.19	0.56
43:DH:12:PRO:HD2	43:DH:15:VAL:HG21	1.87	0.56
46:DN:128:HIS:HD2	46:DN:130:HIS:CE1	2.23	0.56
49:DQ:39:PRO:HD3	49:DQ:99:PRO:HG2	1.88	0.56
52:DT:96:ARG:CZ	52:DT:96:ARG:HB2	2.35	0.56
52:DT:98:LYS:CG	52:DT:100:TYR:HE1	2.18	0.56
1:AA:336:C:O2'	1:AA:337:C:H5'	2.05	0.55
1:AA:851:G:O2'	1:AA:852:G:H5'	2.05	0.55
1:AA:1270:C:O2'	1:AA:1271:G:H5'	2.05	0.55
1:AA:1305:G:H21	1:AA:1331:G:H2'	1.68	0.55
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.41	0.55
1:AA:1439:C:N4	1:AA:1463:C:H42	2.04	0.55
1:AA:1463:C:C5'	52:BT:115:ARG:HH21	2.20	0.55
2:AB:165:VAL:O	2:AB:167:PRO:HD3	2.07	0.55
3:AC:60:ALA:H	3:AC:63:ASN:CG	2.10	0.55
7:AG:101:LEU:O	7:AG:104:LEU:HB2	2.06	0.55
13:AM:70:LEU:HD23	13:AM:70:LEU:C	2.26	0.55
24:AY:65:C:C5'	25:AZ:341:GLN:HG2	2.36	0.55
25:AZ:24:LYS:HE3	25:AZ:84:GLY:HA3	1.88	0.55
25:AZ:134:PHE:CE2	25:AZ:136:ASN:HB2	2.41	0.55
26:B0:26:TYR:HB2	26:B0:29:GLN:OE1	2.06	0.55
32:B6:10:LEU:HD12	34:B8:34:TRP:HB2	1.87	0.55
34:B8:10:ALA:C	34:B8:12:LYS:N	2.58	0.55
36:BA:926:A:H5'	36:BA:926:A:C8	2.36	0.55
36:BA:990:A:H5'	36:BA:1157:G:H5''	1.87	0.55
36:BA:1064:C:H2'	36:BA:1065:U:H5''	1.88	0.55
36:BA:1144:G:H2'	36:BA:1145:C:H6	1.71	0.55
36:BA:1229:G:H3'	36:BA:1230:C:C6	2.41	0.55
36:BA:1356:G:H2'	36:BA:1357:U:O4'	2.05	0.55
36:BA:1446:C:H42	36:BA:1465:G:H1	1.54	0.55
36:BA:1658:C:C2	36:BA:1659:U:C5	2.94	0.55
36:BA:2277:G:C6	36:BA:2278:A:N7	2.74	0.55
36:BA:2305:A:H1'	42:BG:136:ARG:HG2	1.87	0.55
36:BA:2313:C:H5'	36:BA:2313:C:H6	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2358:G:H21	36:BA:2359:C:H1'	1.69	0.55
36:BA:2376:A:N6	51:BS:92:TYR:CE2	2.74	0.55
36:BA:2856:C:H2'	36:BA:2857:G:H5'	1.88	0.55
40:BE:116:VAL:HG21	40:BE:122:PHE:CD2	2.41	0.55
41:BF:7:TYR:OH	41:BF:10:PRO:HG3	2.05	0.55
41:BF:117:ARG:NH2	48:BP:5:ASP:N	2.55	0.55
42:BG:35:GLU:H	42:BG:161:THR:HA	1.72	0.55
42:BG:133:LEU:C	42:BG:133:LEU:CD1	2.74	0.55
43:BH:12:PRO:HD2	43:BH:15:VAL:HG21	1.87	0.55
49:BQ:22:LYS:HG3	49:BQ:22:LYS:O	2.06	0.55
49:BQ:96:VAL:O	49:BQ:96:VAL:HG12	2.04	0.55
49:BQ:120:ILE:HG22	49:BQ:124:LYS:HE2	1.88	0.55
50:BR:56:LYS:C	50:BR:58:GLY:H	2.09	0.55
51:BS:34:HIS:NE2	51:BS:54:LEU:HB3	2.21	0.55
52:BT:111:ARG:HG2	52:BT:111:ARG:NH1	2.20	0.55
54:BV:18:LEU:HD22	54:BV:96:ILE:HG12	1.87	0.55
1:CA:336:C:O2'	1:CA:337:C:H5'	2.05	0.55
1:CA:484:G:H4'	1:CA:485:G:O5'	2.06	0.55
1:CA:859:A:H2	8:CH:19:VAL:HG11	1.70	0.55
5:CE:74:GLY:O	5:CE:116:THR:N	2.39	0.55
6:CF:28:ARG:HG3	6:CF:28:ARG:HH11	1.71	0.55
8:CH:101:PRO:C	8:CH:102:ARG:HD3	2.26	0.55
9:CI:5:TYR:O	9:CI:84:ALA:HA	2.05	0.55
12:CL:86:ARG:CG	12:CL:87:GLY:N	2.68	0.55
12:CL:110:VAL:HG23	12:CL:120:TYR:O	2.06	0.55
13:CM:89:GLY:O	13:CM:90:LEU:O	2.24	0.55
25:CZ:25:THR:HB	62:CZ:501:GDP:O2B	2.06	0.55
25:CZ:222:LEU:HD23	25:CZ:244:ARG:HH21	1.70	0.55
32:D6:19:ARG:CG	32:D6:20:ASN:H	1.99	0.55
36:DA:572:A:N1	36:DA:2033:A:C2	2.74	0.55
36:DA:693:C:H42	36:DA:769:G:H1	1.53	0.55
36:DA:973:A:H5'	36:DA:1188:U:C1'	2.36	0.55
36:DA:995:C:O2	53:DU:61:TRP:HZ2	1.88	0.55
36:DA:1193:G:N3	36:DA:1194:A:H1'	2.21	0.55
36:DA:1205:U:C5	41:DF:171:PRO:HA	2.41	0.55
36:DA:1639:U:C2'	36:DA:1640:C:H5''	2.35	0.55
36:DA:1783:A:C2	36:DA:2587:A:C2	2.95	0.55
36:DA:2010:G:O2'	36:DA:2011:U:H5'	2.06	0.55
40:DE:4:ILE:HD11	40:DE:28:ALA:O	2.06	0.55
42:DG:15:VAL:HG12	42:DG:19:LEU:CD1	2.35	0.55
42:DG:173:LEU:HB3	42:DG:178:PHE:CG	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:77:ALA:O	51:DS:79:ALA:N	2.38	0.55
1:AA:512:U:O5'	4:AD:43:HIS:CE1	2.59	0.55
1:AA:542:G:OP1	4:AD:10:ARG:NH2	2.38	0.55
1:AA:923:A:C6	1:AA:924:C:C4	2.95	0.55
1:AA:973:G:H1'	10:AJ:55:LYS:HE2	1.88	0.55
1:AA:1012:U:H2'	1:AA:1013:G:O4'	2.05	0.55
1:AA:1030:C:C2'	1:AA:1030(A):G:H5'	2.36	0.55
1:AA:1125:U:N3	10:AJ:5:ARG:NH2	2.51	0.55
1:AA:1226:C:C5	13:AM:104:ARG:HB2	2.41	0.55
1:AA:1260:C:H6	1:AA:1260:C:H3'	1.71	0.55
1:AA:1316:G:C3'	1:AA:1317:C:H5''	2.35	0.55
1:AA:1349:A:OP1	9:AI:121:ARG:N	2.39	0.55
2:AB:104:ASN:OD1	2:AB:107:THR:HB	2.07	0.55
3:AC:77:ILE:HG23	3:AC:84:ILE:CG2	2.36	0.55
4:AD:122:ARG:HH11	4:AD:122:ARG:HA	1.71	0.55
4:AD:177:ASP:O	4:AD:181:MET:N	2.39	0.55
5:AE:74:GLY:O	5:AE:116:THR:N	2.37	0.55
9:AI:112:LYS:HE3	9:AI:116:LYS:O	2.06	0.55
13:AM:57:ARG:CG	13:AM:61:GLU:HB2	2.36	0.55
14:AN:42:ILE:CG2	14:AN:43:CYS:N	2.69	0.55
22:AW:50:U:O2'	22:AW:51:U:H5'	2.06	0.55
25:AZ:193:ASN:O	25:AZ:195:TRP:N	2.39	0.55
26:B0:30:VAL:HA	26:B0:65:GLY:O	2.05	0.55
26:B0:50:ASN:HD22	26:B0:63:VAL:CG2	2.18	0.55
27:B1:87:PRO:HA	27:B1:90:ILE:HG13	1.85	0.55
28:B2:66:GLU:HG3	28:B2:67:LYS:N	2.20	0.55
33:B7:9:ARG:HG2	36:BA:1309:G:P	2.45	0.55
34:B8:62:LEU:HD13	36:BA:242:G:C3'	2.33	0.55
36:BA:72:U:O4	36:BA:112:U:H4'	2.07	0.55
36:BA:201:C:H2'	36:BA:202:U:H5'	1.87	0.55
36:BA:584:C:C2'	36:BA:585:G:H5'	2.36	0.55
36:BA:757:U:H2'	36:BA:758:C:O4'	2.07	0.55
36:BA:1064:C:N4	36:BA:1074:G:H22	2.04	0.55
36:BA:1278:A:H2'	36:BA:1279:G:H8	1.71	0.55
36:BA:1655:A:H4'	40:BE:115:GLY:H	1.71	0.55
36:BA:2097:C:O2'	36:BA:2098:U:H5'	2.05	0.55
36:BA:2282:G:H2'	36:BA:2425:A:H61	1.72	0.55
36:BA:2408:U:H2'	36:BA:2409:G:C8	2.42	0.55
36:BA:2636:U:H4'	40:BE:80:GLU:CD	2.27	0.55
36:BA:2758:A:H62	43:BH:67:LEU:HD11	1.70	0.55
42:BG:22:ARG:HH11	42:BG:23:PHE:HE2	1.52	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:26:LEU:CD1	46:BN:30:ILE:HD11	2.30	0.55
47:BO:105:GLU:O	47:BO:109:LYS:HG2	2.06	0.55
52:BT:28:VAL:HG11	52:BT:46:GLU:HA	1.88	0.55
54:BV:15:GLU:HB3	54:BV:16:PRO:CD	2.35	0.55
54:BV:66:ARG:HG2	54:BV:88:ARG:HB3	1.88	0.55
1:CA:197:A:H4'	1:CA:198:G:O5'	2.06	0.55
1:CA:285:G:O2'	1:CA:286:G:H5'	2.06	0.55
1:CA:1270:C:O2'	1:CA:1271:G:H5'	2.07	0.55
1:CA:1348:U:O3'	9:CI:120:ARG:HB2	2.07	0.55
1:CA:1348:U:C4'	9:CI:120:ARG:HD2	2.33	0.55
2:CB:36:ARG:C	2:CB:38:GLY:N	2.60	0.55
2:CB:170:GLU:O	2:CB:173:ALA:N	2.39	0.55
3:CC:156:ARG:H	3:CC:163:ALA:HA	1.71	0.55
7:CG:24:THR:HA	7:CG:27:ILE:CG1	2.36	0.55
8:CH:37:ARG:O	8:CH:37:ARG:HG2	2.05	0.55
10:CJ:90:LEU:N	10:CJ:91:PRO:HD3	2.20	0.55
12:CL:11:VAL:HG11	17:CQ:36:ILE:HG21	1.87	0.55
12:CL:51:ALA:C	12:CL:52:LEU:HD23	2.26	0.55
13:CM:120:LYS:HA	13:CM:120:LYS:CE	2.36	0.55
19:CS:29:ARG:O	19:CS:31:ILE:HG22	2.05	0.55
25:CZ:214:VAL:HG22	25:CZ:215:ARG:N	2.21	0.55
27:D1:3:LYS:HB2	36:DA:1364:G:H5''	1.88	0.55
28:D2:52:ASP:O	28:D2:56:GLN:CG	2.54	0.55
32:D6:36:LEU:HD12	32:D6:50:ARG:HH22	1.70	0.55
35:D9:17:ILE:HG21	35:D9:19:ARG:HH21	1.69	0.55
36:DA:197:A:H5'	36:DA:197:A:H8	1.69	0.55
36:DA:272(J):C:C3'	36:DA:274:G:H5''	2.37	0.55
36:DA:535:C:O3'	53:DU:53:ARG:HD3	2.06	0.55
36:DA:572:A:H5'	54:DV:78:LYS:HZ1	1.69	0.55
36:DA:719:C:O2'	36:DA:720:C:H5'	2.06	0.55
36:DA:950:G:H2'	36:DA:951:C:C6	2.41	0.55
36:DA:1092:C:H2'	36:DA:1093:G:O4'	2.06	0.55
36:DA:1651:G:N2	36:DA:1652:A:H1'	2.21	0.55
36:DA:2041:U:H2'	36:DA:2042:A:C8	2.41	0.55
36:DA:2249:U:H4'	36:DA:2275:C:H5	1.72	0.55
36:DA:2460:U:H2'	36:DA:2461:C:O4'	2.07	0.55
36:DA:2562:U:C2'	36:DA:2563:U:H5'	2.35	0.55
36:DA:2627:G:O2'	36:DA:2781:A:N1	2.27	0.55
37:DB:6:C:H42	37:DB:115:G:H1	1.52	0.55
38:DC:6:ARG:HG2	38:DC:6:ARG:NH1	2.21	0.55
38:DC:74:VAL:HA	38:DC:112:ALA:CB	2.29	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:189:ILE:O	38:DC:192:PHE:HB3	2.06	0.55
39:DD:131:LEU:HD13	39:DD:136:ILE:CD1	2.36	0.55
39:DD:218:ARG:HG3	39:DD:218:ARG:HH11	1.71	0.55
42:DG:54:GLU:OE1	42:DG:54:GLU:N	2.39	0.55
43:DH:51:ARG:O	43:DH:52:VAL:HG23	2.05	0.55
45:DK:88:UNK:C	45:DK:90:UNK:N	2.68	0.55
46:DN:130:HIS:O	46:DN:130:HIS:CG	2.58	0.55
51:DS:26:LEU:HD23	51:DS:27:SER:O	2.06	0.55
55:DW:35:ILE:HG22	55:DW:36:LEU:N	2.22	0.55
58:DZ:150:LEU:O	58:DZ:151:HIS:HB3	2.07	0.55
1:AA:502:G:N2	1:AA:544:G:C4	2.75	0.55
1:AA:663:A:H61	1:AA:742:G:H1	1.54	0.55
10:AJ:34:VAL:HG22	10:AJ:74:ILE:CG2	2.33	0.55
12:AL:28:LYS:O	12:AL:29:GLY:C	2.44	0.55
15:AO:4:THR:C	15:AO:6:GLU:H	2.08	0.55
16:AP:59:TRP:O	16:AP:64:ALA:HB2	2.06	0.55
19:AS:62:ILE:CD1	19:AS:66:MET:HE2	2.33	0.55
25:AZ:150:VAL:O	25:AZ:154:VAL:HG23	2.05	0.55
25:AZ:267:VAL:HG23	25:AZ:288:VAL:HG13	1.89	0.55
25:AZ:300:ARG:O	25:AZ:302:GLN:N	2.39	0.55
28:B2:13:ALA:CA	28:B2:16:LEU:HD12	2.27	0.55
34:B8:21:LYS:HD3	34:B8:48:PHE:CE2	2.41	0.55
36:BA:271(B):C:H42	36:BA:271(W):G:H21	1.54	0.55
36:BA:310:A:H2	36:BA:330:A:HO2'	1.53	0.55
36:BA:464:U:O2'	36:BA:465:G:H5'	2.06	0.55
36:BA:907:U:H4'	49:BQ:101:ARG:HH12	1.70	0.55
36:BA:1260:G:H2'	36:BA:1261:C:C6	2.41	0.55
36:BA:1470:G:H3'	36:BA:1519:G:O6	2.06	0.55
36:BA:1487:G:C2	36:BA:1488:G:H1'	2.41	0.55
36:BA:1991:U:C2'	36:BA:1992:G:H5''	2.35	0.55
36:BA:2223:G:C2'	36:BA:2224:G:H5'	2.36	0.55
36:BA:2316:C:H2'	36:BA:2317:C:H6	1.70	0.55
36:BA:2341:G:C2	36:BA:2342:C:N3	2.75	0.55
36:BA:2699:C:O2'	36:BA:2700:C:H5'	2.06	0.55
37:BB:70:C:O2'	37:BB:71:C:H5'	2.06	0.55
39:BD:112:GLN:HB2	39:BD:115:GLN:HE21	1.71	0.55
39:BD:142:VAL:HG23	39:BD:192:THR:O	2.05	0.55
39:BD:204:ILE:HG13	39:BD:204:ILE:O	2.05	0.55
39:BD:231:HIS:ND1	39:BD:232:PRO:N	2.54	0.55
39:BD:261:LYS:HZ3	39:BD:263:ARG:HB2	1.70	0.55
39:BD:267:SER:O	39:BD:269:PHE:N	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:37:VAL:O	42:BG:94:LEU:HB2	2.06	0.55
42:BG:52:ILE:HB	42:BG:54:GLU:OE1	2.06	0.55
42:BG:174:GLU:HA	42:BG:180:PHE:CE1	2.41	0.55
46:BN:16:ILE:HD12	46:BN:139:GLU:N	2.20	0.55
48:BP:71:VAL:CG1	48:BP:72:PRO:HD3	2.35	0.55
49:BQ:19:GLY:CA	58:BZ:79:ARG:HH22	2.15	0.55
1:CA:113:G:O2'	1:CA:354:G:H5'	2.06	0.55
1:CA:156:G:H1'	1:CA:166:G:N2	2.22	0.55
1:CA:727:G:C2	1:CA:731:G:C6	2.95	0.55
1:CA:837:G:O2'	1:CA:838:G:H5'	2.07	0.55
1:CA:868:C:H2'	1:CA:869:G:O4'	2.07	0.55
1:CA:977:A:O2'	1:CA:978:A:H5'	2.06	0.55
1:CA:1150:U:O2'	10:CJ:41:PRO:HD3	2.06	0.55
1:CA:1394:A:N1	1:CA:1501:C:H5'	2.21	0.55
1:CA:1411:C:H2'	1:CA:1412:C:C6	2.41	0.55
2:CB:212:GLN:NE2	2:CB:216:SER:HB2	2.21	0.55
5:CE:125:SER:O	5:CE:126:ARG:HG3	2.06	0.55
7:CG:106:GLN:O	7:CG:107:ALA:C	2.43	0.55
10:CJ:45:ARG:NE	14:CN:36:PHE:CE2	2.74	0.55
17:CQ:61:GLU:HA	17:CQ:71:PHE:CE1	2.41	0.55
25:CZ:86:ALA:O	25:CZ:87:ASP:HB2	2.05	0.55
25:CZ:221:PHE:CE1	25:CZ:247:VAL:HG13	2.41	0.55
30:D4:22:ILE:HD12	30:D4:22:ILE:N	2.11	0.55
32:D6:42:TRP:O	32:D6:44:ARG:N	2.33	0.55
35:D9:1:MET:SD	36:DA:2478:A:OP2	2.65	0.55
36:DA:31:C:C3'	36:DA:32:C:H5''	2.36	0.55
36:DA:675:A:H4'	41:DF:67:GLN:OE1	2.06	0.55
36:DA:898:C:C2'	36:DA:899:A:H5'	2.35	0.55
36:DA:1260:G:H2'	36:DA:1261:C:C6	2.41	0.55
36:DA:1392:A:H2'	36:DA:1393:A:O4'	2.05	0.55
36:DA:1536:C:H2'	36:DA:1537:G:C4'	2.36	0.55
36:DA:1541:G:O2'	36:DA:1542:A:H5''	2.06	0.55
36:DA:2007:C:C5'	36:DA:2824:C:H1'	2.36	0.55
36:DA:2061:G:H5''	36:DA:2503:A:C2	2.41	0.55
36:DA:2394:C:OP1	48:DP:63:PRO:HD2	2.06	0.55
36:DA:2569:G:O2'	36:DA:2570:G:H5'	2.06	0.55
37:DB:48:A:OP1	51:DS:93:LYS:HB3	2.05	0.55
39:DD:11:PRO:C	39:DD:13:ARG:H	2.08	0.55
39:DD:68:LYS:HB2	39:DD:70:TRP:CE2	2.41	0.55
40:DE:34:VAL:HG11	40:DE:78:LEU:HD22	1.87	0.55
42:DG:109:VAL:HG21	42:DG:142:PRO:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:112:PRO:CG	42:DG:113:ARG:H	2.17	0.55
45:DK:98:UNK:HA	45:DK:135:UNK:CB	2.37	0.55
51:DS:97:ARG:O	51:DS:99:LYS:HG2	2.06	0.55
52:DT:11:GLU:C	52:DT:13:ARG:H	2.07	0.55
53:DU:92:ARG:HH22	54:DV:10:LYS:HG2	1.71	0.55
54:DV:15:GLU:HB3	54:DV:16:PRO:CD	2.32	0.55
58:DZ:102:LEU:HD11	58:DZ:124:ILE:HG21	1.88	0.55
1:AA:406:G:H2'	1:AA:407:G:H8	1.72	0.55
1:AA:793:U:O2	1:AA:1516:G:H4'	2.07	0.55
1:AA:892:A:HO2'	1:AA:1415:G:H4'	1.71	0.55
1:AA:909:A:P	12:AL:21:LYS:HD3	2.47	0.55
1:AA:920:U:C1'	1:AA:1080:A:C2	2.88	0.55
1:AA:1102:A:H2'	1:AA:1103:C:C6	2.41	0.55
1:AA:1319:A:H5'	1:AA:1320:C:OP1	2.06	0.55
2:AB:155:LEU:HD11	2:AB:158:LEU:HA	1.88	0.55
4:AD:54:TYR:O	4:AD:55:ALA:C	2.44	0.55
5:AE:105:VAL:N	5:AE:106:PRO:CD	2.69	0.55
6:AF:33:TYR:HB2	6:AF:75:LEU:HD13	1.87	0.55
7:AG:118:VAL:O	7:AG:119:ARG:C	2.45	0.55
12:AL:86:ARG:HB2	12:AL:101:VAL:HG22	1.87	0.55
13:AM:35:GLU:HG3	13:AM:36:LYS:N	2.22	0.55
15:AO:82:ILE:CG2	15:AO:83:GLU:H	2.14	0.55
16:AP:44:THR:O	16:AP:45:THR:CB	2.55	0.55
18:AR:53:ARG:CZ	18:AR:60:ALA:N	2.69	0.55
22:AW:26:A:H61	22:AW:44:G:H1	1.55	0.55
24:AY:68:U:H2'	24:AY:69:C:C6	2.41	0.55
25:AZ:272:MET:HB3	25:AZ:277:LEU:HD23	1.88	0.55
27:B1:24:ALA:CA	27:B1:32:LYS:HE3	2.36	0.55
28:B2:38:GLN:HB2	28:B2:44:LEU:HD22	1.87	0.55
33:B7:10:ARG:O	33:B7:11:LYS:C	2.43	0.55
36:BA:237:C:N3	36:BA:261:G:C2	2.75	0.55
36:BA:272(J):C:C3'	36:BA:274:G:H5''	2.37	0.55
36:BA:572:A:N6	36:BA:2029:G:H21	2.04	0.55
36:BA:607:U:H3	36:BA:621:A:H2	1.54	0.55
36:BA:631:A:H1'	36:BA:2415:G:HO2'	1.72	0.55
36:BA:1005:C:H2'	36:BA:1006:C:H6	1.69	0.55
36:BA:1056:G:H8	36:BA:1056:G:O5'	1.90	0.55
36:BA:1903:G:OP2	39:BD:241:PRO:HB2	2.06	0.55
36:BA:2126:A:H5'	38:BC:37:PHE:CE2	2.42	0.55
36:BA:2222:G:N3	36:BA:2223:G:C8	2.74	0.55
36:BA:2364:C:H2'	36:BA:2365:G:O4'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2790:A:N3	36:BA:2791:C:H5''	2.22	0.55
36:BA:2810:A:C8	36:BA:2811:G:H1'	2.41	0.55
37:BB:40:U:H3'	37:BB:41:U:H5''	1.88	0.55
38:BC:70:LYS:HE3	38:BC:70:LYS:HA	1.88	0.55
39:BD:79:VAL:O	39:BD:113:VAL:HG13	2.07	0.55
40:BE:76:ARG:O	40:BE:77:ILE:O	2.24	0.55
42:BG:44:GLY:H	42:BG:88:ILE:HG21	1.71	0.55
46:BN:131:GLN:NE2	46:BN:133:GLN:HA	2.21	0.55
47:BO:87:ILE:HD13	47:BO:93:PRO:HA	1.88	0.55
50:BR:28:LEU:HA	50:BR:34:ILE:CG1	2.37	0.55
50:BR:83:ILE:HG22	50:BR:87:TYR:HE2	1.70	0.55
51:BS:56:LEU:CD2	51:BS:58:LEU:HB2	2.36	0.55
53:BU:92:ARG:HH22	54:BV:10:LYS:HB3	1.72	0.55
54:BV:37:VAL:O	54:BV:37:VAL:HG23	2.07	0.55
55:BW:59:VAL:O	55:BW:63:ASP:N	2.28	0.55
58:BZ:5:LEU:C	58:BZ:6:LYS:HD3	2.27	0.55
58:BZ:12:GLY:HA3	58:BZ:36:LYS:NZ	2.20	0.55
58:BZ:127:LYS:O	58:BZ:128:VAL:HB	2.07	0.55
58:BZ:127:LYS:H	58:BZ:163:LEU:HA	1.71	0.55
1:CA:502:G:N2	1:CA:544:G:C4	2.75	0.55
1:CA:928:G:H2'	1:CA:929:G:H5'	1.88	0.55
1:CA:1050:G:C6	1:CA:1209:C:N3	2.74	0.55
2:CB:134:GLU:C	2:CB:136:VAL:N	2.60	0.55
5:CE:7:GLU:HB3	5:CE:112:LEU:HD21	1.89	0.55
5:CE:72:GLN:NE2	5:CE:144:THR:HG22	2.20	0.55
8:CH:20:TYR:HD1	8:CH:65:TYR:CD2	2.25	0.55
8:CH:74:PRO:O	8:CH:75:ARG:C	2.45	0.55
11:CK:120:ARG:NH1	11:CK:126:ARG:HD2	2.19	0.55
13:CM:2:ALA:C	13:CM:9:ILE:HG23	2.27	0.55
16:CP:23:ASP:O	16:CP:25:ARG:N	2.40	0.55
20:CT:74:LYS:HD3	20:CT:74:LYS:H	1.71	0.55
24:CY:24:G:O2'	24:CY:25:C:H5'	2.07	0.55
24:CY:28:A:H2'	24:CY:29:C:C6	2.42	0.55
25:CZ:230:THR:O	25:CZ:231:ILE:HD13	2.05	0.55
31:D5:54:GLY:O	31:D5:56:LYS:HG2	2.06	0.55
32:D6:16:CYS:O	32:D6:17:LYS:CG	2.54	0.55
36:DA:223:A:C5	36:DA:422:A:H1'	2.41	0.55
36:DA:500:G:H2'	36:DA:502:A:OP2	2.06	0.55
36:DA:1186:G:C2'	36:DA:1187:G:H5'	2.36	0.55
36:DA:1229:G:H3'	36:DA:1230:C:C6	2.41	0.55
36:DA:1504:C:O2'	36:DA:1505:C:C5'	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1783:A:N1	36:DA:2587:A:C2	2.75	0.55
36:DA:1992:G:C4	36:DA:1997:G:O6	2.60	0.55
36:DA:2013:A:N6	36:DA:2014:A:C6	2.75	0.55
36:DA:2517:C:C2	36:DA:2542:A:N1	2.74	0.55
36:DA:2677:G:H2'	36:DA:2678:C:C6	2.41	0.55
36:DA:2790:A:N3	36:DA:2791:C:H5''	2.21	0.55
38:DC:99:ILE:HG23	38:DC:102:LYS:HZ2	1.68	0.55
39:DD:232:PRO:CD	39:DD:249:PRO:HA	2.30	0.55
40:DE:100:GLU:O	40:DE:172:VAL:HG23	2.06	0.55
41:DF:17:ARG:HG3	41:DF:17:ARG:HH11	1.71	0.55
41:DF:143:ALA:O	41:DF:148:LEU:HB2	2.06	0.55
42:DG:37:VAL:CG2	42:DG:159:VAL:HG23	2.30	0.55
42:DG:131:TYR:HB3	42:DG:159:VAL:CG1	2.37	0.55
42:DG:165:THR:OG1	42:DG:168:GLU:HG3	2.07	0.55
45:DK:113:UNK:O	45:DK:114:UNK:CB	2.55	0.55
46:DN:16:ILE:HG23	46:DN:16:ILE:O	2.05	0.55
46:DN:36:GLY:H	46:DN:49:GLY:HA3	1.70	0.55
48:DP:23:PRO:O	48:DP:30:THR:HA	2.05	0.55
48:DP:45:LEU:HD22	48:DP:46:LYS:H	1.70	0.55
48:DP:101:VAL:CG2	48:DP:102:ARG:N	2.69	0.55
49:DQ:37:LEU:HD21	49:DQ:129:THR:C	2.27	0.55
49:DQ:39:PRO:CD	49:DQ:99:PRO:HG2	2.37	0.55
52:DT:64:ARG:HH11	52:DT:102:ILE:HD11	1.72	0.55
52:DT:101:PHE:O	52:DT:102:ILE:C	2.44	0.55
55:DW:52:GLU:C	55:DW:54:ALA:N	2.60	0.55
1:AA:321:A:H62	1:AA:328:C:H1'	1.72	0.55
1:AA:827:U:H5'	1:AA:828:A:OP2	2.06	0.55
1:AA:946:A:C6	1:AA:947:G:C6	2.95	0.55
1:AA:991:U:H2'	1:AA:991:U:O2	2.06	0.55
3:AC:5:ILE:N	3:AC:5:ILE:HD13	2.21	0.55
5:AE:102:ALA:HB2	5:AE:120:THR:HG21	1.88	0.55
7:AG:106:GLN:O	7:AG:110:GLN:N	2.32	0.55
9:AI:11:LYS:HG3	9:AI:108:VAL:HG13	1.89	0.55
13:AM:66:LEU:O	13:AM:70:LEU:HB3	2.07	0.55
13:AM:79:LYS:O	13:AM:82:MET:HG2	2.06	0.55
13:AM:91:ARG:O	13:AM:95:GLY:N	2.40	0.55
25:AZ:341:GLN:N	25:AZ:341:GLN:NE2	2.53	0.55
34:B8:22:VAL:CG2	34:B8:53:PRO:HB2	2.36	0.55
34:B8:50:LEU:O	34:B8:52:LYS:N	2.35	0.55
36:BA:379:G:C6	36:BA:396:G:O6	2.60	0.55
36:BA:532:A:H5''	53:BU:28:ARG:HH12	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:635:C:H2'	36:BA:636:G:C8	2.41	0.55
36:BA:886:C:O2'	36:BA:887:A:C4'	2.54	0.55
36:BA:950:G:H2'	36:BA:951:C:C6	2.42	0.55
36:BA:1192:G:O6	48:BP:29:LYS:NZ	2.36	0.55
36:BA:1845:G:O2'	36:BA:1846:G:H5'	2.06	0.55
36:BA:2880:C:H3'	36:BA:2880:C:C6	2.41	0.55
38:BC:77:ILE:HG22	38:BC:77:ILE:O	2.06	0.55
39:BD:3:VAL:HG12	39:BD:17:THR:HB	1.88	0.55
39:BD:172:TYR:HD1	39:BD:186:HIS:HA	1.71	0.55
40:BE:69:LYS:O	40:BE:71:GLY:N	2.33	0.55
41:BF:135:LYS:HB3	41:BF:138:GLU:CB	2.33	0.55
43:BH:135:GLY:HA3	43:BH:141:VAL:CG2	2.37	0.55
43:BH:148:ILE:O	43:BH:162:ILE:HG21	2.07	0.55
49:BQ:75:THR:HG21	49:BQ:87:LYS:NZ	2.22	0.55
50:BR:14:SER:O	50:BR:17:ARG:N	2.37	0.55
52:BT:13:ARG:NE	52:BT:13:ARG:CA	2.69	0.55
57:BY:98:VAL:O	57:BY:99:CYS:HB2	2.05	0.55
1:CA:310:G:H4'	16:CP:31:LYS:HD2	1.87	0.55
1:CA:630:G:H2'	1:CA:630:G:N3	2.21	0.55
1:CA:987:G:O2'	1:CA:988:G:H5'	2.07	0.55
4:CD:128:VAL:O	4:CD:130:GLY:N	2.39	0.55
6:CF:53:ALA:HB3	6:CF:86:ARG:NH1	2.20	0.55
7:CG:41:ARG:O	7:CG:44:TYR:HB2	2.07	0.55
8:CH:81:HIS:HB2	8:CH:138:TRP:CZ3	2.41	0.55
8:CH:97:VAL:HG13	8:CH:98:LYS:N	2.22	0.55
9:CI:65:VAL:HG22	9:CI:66:ARG:N	2.22	0.55
15:CO:4:THR:C	15:CO:6:GLU:H	2.09	0.55
19:CS:40:ILE:CG2	19:CS:67:VAL:HA	2.37	0.55
22:CV:27:G:H2'	22:CV:28:G:C8	2.41	0.55
26:D0:39:ARG:NH2	36:DA:2354:G:H22	2.03	0.55
27:D1:67:ILE:N	27:D1:68:PRO:CD	2.67	0.55
34:D8:62:LEU:HD13	36:DA:242:G:C3'	2.31	0.55
35:D9:10:ILE:HD12	35:D9:10:ILE:N	2.02	0.55
36:DA:66:C:O4'	36:DA:456:C:N3	2.39	0.55
36:DA:319:C:H2'	36:DA:320:A:C8	2.42	0.55
36:DA:594:U:H3	36:DA:663:G:H1	1.54	0.55
36:DA:1106:G:H2'	36:DA:1107:G:H5'	1.89	0.55
36:DA:1899:G:H21	36:DA:1902:C:N4	2.04	0.55
36:DA:1949:G:H1	36:DA:1957:C:N4	2.04	0.55
36:DA:2199:A:H3'	36:DA:2200:C:C6	2.41	0.55
39:DD:147:LEU:HD21	39:DD:183:ARG:CZ	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:227:ASN:HB3	39:DD:228:PRO:HD2	1.88	0.55
40:DE:56:PRO:O	40:DE:57:LYS:HD2	2.07	0.55
42:DG:44:GLY:O	42:DG:47:LYS:HD2	2.06	0.55
42:DG:76:SER:CB	42:DG:83:ARG:HB3	2.36	0.55
48:DP:40:SER:C	48:DP:41:ARG:HD2	2.27	0.55
49:DQ:51:ARG:HG3	49:DQ:51:ARG:NH1	2.22	0.55
49:DQ:67:ARG:N	49:DQ:103:MET:O	2.37	0.55
49:DQ:70:PRO:CA	49:DQ:94:VAL:O	2.54	0.55
53:DU:17:ILE:HA	53:DU:20:LEU:HD23	1.88	0.55
1:AA:390:C:H2'	1:AA:391:G:H8	1.72	0.55
1:AA:507:C:H3'	1:AA:508:C:H6	1.72	0.55
1:AA:603:U:H2'	1:AA:604:G:H8	1.72	0.55
1:AA:1314:C:N4	19:AS:4:SER:HB2	2.20	0.55
2:AB:114:ARG:HD3	2:AB:114:ARG:O	2.05	0.55
8:AH:100:ILE:HG23	8:AH:101:PRO:HD2	1.89	0.55
10:AJ:50:ILE:HA	10:AJ:60:ARG:CB	2.31	0.55
13:AM:54:VAL:O	13:AM:57:ARG:N	2.40	0.55
17:AQ:56:VAL:HG21	17:AQ:81:ARG:HG3	1.87	0.55
22:AV:27:G:H2'	22:AV:28:G:C8	2.41	0.55
22:AV:53:G:H1	22:AV:61:C:N4	1.93	0.55
25:AZ:356:PRO:N	25:AZ:359:VAL:CG2	2.68	0.55
28:B2:33:MET:SD	56:BX:5:TYR:O	2.65	0.55
30:B4:6:HIS:HA	42:BG:67:LYS:HE3	1.88	0.55
31:B5:54:GLY:O	31:B5:56:LYS:HG2	2.07	0.55
36:BA:65:C:H5'	56:BX:71:GLY:HA3	1.89	0.55
36:BA:401:A:H2'	36:BA:402:A:C8	2.41	0.55
36:BA:440:G:N2	41:BF:46:ARG:NH2	2.53	0.55
36:BA:1106:G:H2'	36:BA:1107:G:H5'	1.87	0.55
36:BA:1350:C:H2'	36:BA:1351:C:C6	2.37	0.55
36:BA:1361:G:N2	36:BA:1371:G:H1'	2.22	0.55
36:BA:1568:G:OP2	39:BD:63:ARG:NH2	2.33	0.55
37:BB:30:C:H1'	37:BB:57:A:N6	2.21	0.55
38:BC:103:ILE:HG23	38:BC:107:TRP:CB	2.37	0.55
39:BD:28:GLU:H	39:BD:29:PRO:CD	2.19	0.55
39:BD:67:PHE:CE1	39:BD:157:ARG:NH2	2.74	0.55
40:BE:52:LEU:HD12	40:BE:53:PRO:HD2	1.88	0.55
42:BG:47:LYS:CE	42:BG:81:LYS:HG3	2.36	0.55
43:BH:44:VAL:CG1	43:BH:45:VAL:H	2.11	0.55
48:BP:23:PRO:O	48:BP:30:THR:HA	2.06	0.55
48:BP:24:GLY:HA3	48:BP:33:ARG:HH12	1.71	0.55
49:BQ:67:ARG:HB2	49:BQ:102:VAL:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:129:ARG:HD2	52:BT:131:ALA:H	1.72	0.55
53:BU:55:ARG:HA	53:BU:58:ARG:CG	2.37	0.55
55:BW:95:ILE:O	55:BW:95:ILE:HG13	2.05	0.55
1:CA:35:G:H2'	1:CA:36:C:H6	1.70	0.55
1:CA:406:G:H2'	1:CA:407:G:H8	1.70	0.55
1:CA:633:G:C5	1:CA:634:C:C5	2.95	0.55
1:CA:866:C:H4'	1:CA:919:A:OP1	2.06	0.55
1:CA:1012:U:H2'	1:CA:1013:G:O4'	2.06	0.55
1:CA:1288:A:H2'	1:CA:1289:A:C8	2.41	0.55
2:CB:69:LEU:HD12	2:CB:71:VAL:CG2	2.35	0.55
2:CB:114:ARG:HD3	2:CB:114:ARG:O	2.07	0.55
2:CB:212:GLN:HE22	2:CB:216:SER:HB2	1.70	0.55
13:CM:124:PRO:O	13:CM:126:LYS:N	2.40	0.55
15:CO:78:TYR:O	15:CO:82:ILE:HG22	2.06	0.55
22:CW:18:G:H1	22:CW:55:U:H1'	1.71	0.55
36:DA:298:G:H5'	36:DA:299:A:OP1	2.06	0.55
36:DA:708:C:H5'	36:DA:709:U:OP2	2.06	0.55
36:DA:856:C:H2'	36:DA:857:C:O4'	2.07	0.55
36:DA:953:A:OP2	49:DQ:16:ARG:CZ	2.55	0.55
36:DA:968:G:H2'	36:DA:969:U:H6	1.68	0.55
36:DA:1042:G:H1	36:DA:1112:G:H22	1.54	0.55
36:DA:1057:A:O2'	36:DA:1058:G:H5'	2.07	0.55
36:DA:1221(A):C:H42	36:DA:1228:G:H1	1.54	0.55
36:DA:1431:U:H2'	36:DA:1432:C:C5'	2.37	0.55
36:DA:1487:G:C2	36:DA:1488:G:H1'	2.42	0.55
36:DA:1775:U:H2'	36:DA:1776:G:C4'	2.36	0.55
36:DA:2333:A:H1'	36:DA:2335:A:C5	2.41	0.55
36:DA:2550:G:O2'	36:DA:2551:C:H5'	2.07	0.55
38:DC:122:ALA:O	38:DC:126:LYS:HG2	2.07	0.55
40:DE:81:ILE:O	40:DE:81:ILE:CG2	2.54	0.55
41:DF:101:LEU:HD12	41:DF:102:PRO:CD	2.33	0.55
42:DG:64:THR:HA	42:DG:102:PHE:CD2	2.42	0.55
43:DH:83:TYR:CB	43:DH:135:GLY:H	2.14	0.55
46:DN:71:ILE:HG22	46:DN:72:TYR:N	2.21	0.55
46:DN:131:GLN:NE2	46:DN:133:GLN:HA	2.22	0.55
49:DQ:54:MET:HG2	49:DQ:64:ILE:HD13	1.88	0.55
56:DX:8:ILE:HD12	56:DX:8:ILE:N	2.22	0.55
58:DZ:61:LEU:HD11	58:DZ:67:LEU:HD11	1.89	0.55
1:AA:15:G:H4'	5:AE:24:ARG:HH21	1.71	0.55
1:AA:412:A:H4'	1:AA:413:G:C8	2.40	0.55
1:AA:484:G:H4'	1:AA:485:G:O5'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:509:A:H5'	4:AD:54:TYR:HD2	1.72	0.55
1:AA:540:G:H2'	1:AA:541:G:C8	2.42	0.55
1:AA:719:C:O2	18:AR:50:ILE:HG12	2.05	0.55
1:AA:1050:G:C6	1:AA:1209:C:N3	2.75	0.55
1:AA:1051:C:O2'	1:AA:1052:U:H5'	2.07	0.55
1:AA:1348:U:O2'	1:AA:1349:A:C8	2.57	0.55
4:AD:101:LEU:O	4:AD:104:VAL:HB	2.06	0.55
5:AE:92:LYS:H	5:AE:118:ILE:HD11	1.72	0.55
7:AG:106:GLN:O	7:AG:107:ALA:C	2.45	0.55
14:AN:7:ILE:HG13	14:AN:8:GLU:N	2.20	0.55
24:AY:11:C:C3'	24:AY:12:U:H5''	2.36	0.55
25:AZ:106:VAL:O	25:AZ:136:ASN:N	2.39	0.55
28:B2:32:LEU:O	28:B2:32:LEU:HD23	2.07	0.55
30:B4:25:TYR:N	30:B4:25:TYR:CD1	2.75	0.55
32:B6:11:LEU:HD13	32:B6:11:LEU:C	2.26	0.55
34:B8:50:LEU:O	34:B8:53:PRO:HD2	2.06	0.55
36:BA:61:G:H8	36:BA:61:G:O5'	1.89	0.55
36:BA:309:G:O3'	57:BY:18:GLY:CA	2.55	0.55
36:BA:1463:C:H2'	36:BA:1464:C:O4'	2.07	0.55
36:BA:1798:U:H5''	39:BD:260:ARG:H	1.72	0.55
36:BA:2062:A:O2'	36:BA:2063:C:H5'	2.06	0.55
36:BA:2149:G:H2'	36:BA:2150:U:O4'	2.07	0.55
36:BA:2243:U:O2	36:BA:2434:A:C2	2.59	0.55
36:BA:2290:G:H22	36:BA:2343:C:H1'	1.70	0.55
36:BA:2684:U:O5'	36:BA:2684:U:H6	1.90	0.55
37:BB:72:G:H21	37:BB:104:U:H5	1.53	0.55
39:BD:35:LYS:HB3	39:BD:35:LYS:HZ2	1.72	0.55
41:BF:3:GLU:HA	41:BF:24:LEU:HB2	1.89	0.55
41:BF:195:ASP:HB3	41:BF:198:ALA:HB3	1.87	0.55
43:BH:83:TYR:HB2	43:BH:135:GLY:N	2.13	0.55
46:BN:6:PRO:CB	46:BN:41:ASP:OD1	2.55	0.55
48:BP:16:ARG:CD	48:BP:18:ARG:H	2.18	0.55
52:BT:61:PHE:O	52:BT:75:ILE:HG23	2.07	0.55
52:BT:64:ARG:NH1	52:BT:102:ILE:HD11	2.21	0.55
52:BT:83:ILE:O	52:BT:84:GLN:O	2.23	0.55
53:BU:66:ASN:CB	53:BU:76:TYR:HB2	2.36	0.55
1:CA:726:C:H2'	1:CA:727:G:C8	2.41	0.55
1:CA:826:C:H2'	1:CA:827:U:C6	2.40	0.55
1:CA:1054:C:N4	24:CY:34:G:O2'	2.34	0.55
1:CA:1231:G:H2'	1:CA:1232:U:H6	1.72	0.55
1:CA:1349:A:OP1	9:CI:121:ARG:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1368:G:C2'	1:CA:1369:C:H5'	2.37	0.55
1:CA:1465:C:O2'	1:CA:1466:C:H5'	2.06	0.55
2:CB:74:LYS:HZ2	2:CB:76:GLN:HB2	1.72	0.55
4:CD:13:ARG:O	4:CD:15:GLU:N	2.39	0.55
4:CD:91:SER:O	4:CD:92:VAL:C	2.44	0.55
4:CD:98:GLU:OE2	4:CD:107:ARG:NH2	2.39	0.55
4:CD:132:ARG:HG2	4:CD:132:ARG:HH11	1.72	0.55
5:CE:61:TYR:O	5:CE:62:ALA:C	2.44	0.55
6:CF:2:ARG:HG3	6:CF:69:GLU:OE1	2.07	0.55
9:CI:11:LYS:O	9:CI:13:ALA:N	2.40	0.55
11:CK:21:ILE:HG13	11:CK:30:VAL:CG1	2.31	0.55
12:CL:90:VAL:O	12:CL:92:ASP:N	2.40	0.55
14:CN:4:LYS:O	14:CN:5:ALA:C	2.45	0.55
18:CR:73:ALA:HB3	18:CR:79:LEU:HD12	1.88	0.55
19:CS:24:ALA:O	19:CS:25:LYS:CB	2.55	0.55
22:CW:26:A:H61	22:CW:44:G:H1	1.54	0.55
24:CY:11:C:C3'	24:CY:12:U:H5''	2.37	0.55
25:CZ:24:LYS:HA	25:CZ:105:VAL:HG21	1.87	0.55
25:CZ:220:PRO:O	25:CZ:245:GLY:HA3	2.07	0.55
25:CZ:343:TYR:CE2	25:CZ:348:ASP:HB2	2.42	0.55
34:D8:47:LYS:HD3	34:D8:48:PHE:O	2.07	0.55
36:DA:20:C:O2'	36:DA:21:A:H5'	2.06	0.55
36:DA:532:A:H2'	36:DA:532:A:N3	2.22	0.55
36:DA:936:C:H2'	36:DA:937:U:C6	2.42	0.55
36:DA:1011:G:O2'	36:DA:1013:C:C5'	2.55	0.55
36:DA:1056:G:H8	36:DA:1056:G:O5'	1.88	0.55
36:DA:1090:U:O4	36:DA:1102:C:H1'	2.07	0.55
36:DA:1655:A:H4'	40:DE:114:ALA:HA	1.87	0.55
36:DA:1779:U:C2'	36:DA:1783:A:H62	2.19	0.55
36:DA:2305:A:H1'	42:DG:136:ARG:HG2	1.88	0.55
36:DA:2457:U:C2'	36:DA:2458:G:H5'	2.37	0.55
36:DA:2762:G:C2'	36:DA:2763:G:H5'	2.36	0.55
36:DA:2820:A:H4'	50:DR:5:LYS:HE2	1.88	0.55
37:DB:30:C:H1'	37:DB:57:A:N6	2.20	0.55
39:DD:79:VAL:O	39:DD:113:VAL:HG13	2.07	0.55
41:DF:25:PRO:HB3	41:DF:119:ARG:CB	2.36	0.55
41:DF:33:LEU:O	41:DF:37:VAL:HG23	2.06	0.55
42:DG:9:ARG:O	42:DG:13:GLU:HG2	2.07	0.55
46:DN:131:GLN:HE22	46:DN:133:GLN:CA	2.19	0.55
47:DO:111:PHE:CB	47:DO:114:ILE:HD13	2.33	0.55
49:DQ:43:THR:CB	49:DQ:45:GLN:NE2	2.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:28:LEU:HA	50:DR:34:ILE:HG13	1.87	0.55
52:DT:65:LYS:HA	52:DT:65:LYS:NZ	2.22	0.55
56:DX:10:ALA:HB1	56:DX:11:PRO:CD	2.37	0.55
58:DZ:10:ARG:HB3	58:DZ:36:LYS:CB	2.32	0.55
1:AA:8:A:C5'	5:AE:120:THR:O	2.55	0.55
1:AA:137:C:H42	1:AA:226:G:H1	1.52	0.55
1:AA:858:G:H22	1:AA:869:G:H3'	1.71	0.55
1:AA:987:G:O2'	1:AA:988:G:H5'	2.06	0.55
1:AA:1011:G:C2	1:AA:1019:C:N3	2.75	0.55
1:AA:1047:G:C5'	14:AN:4:LYS:HE2	2.26	0.55
1:AA:1102:A:C4	1:AA:1103:C:C5	2.95	0.55
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.42	0.55
1:AA:1250:A:H4'	9:AI:68:GLY:H	1.71	0.55
1:AA:1330:U:H4'	13:AM:23:TYR:CE2	2.42	0.55
2:AB:147:LYS:HG2	2:AB:147:LYS:O	2.06	0.55
4:AD:131:ARG:H	4:AD:131:ARG:CD	2.11	0.55
7:AG:16:LEU:HD13	9:AI:42:ARG:HA	1.86	0.55
10:AJ:47:PHE:CE2	14:AN:37:PHE:HE2	2.24	0.55
13:AM:68:GLY:C	13:AM:70:LEU:N	2.60	0.55
13:AM:119:GLY:O	13:AM:120:LYS:HB2	2.06	0.55
22:AW:31:A:H2'	22:AW:32:U:H6	1.72	0.55
27:B1:62:VAL:HG11	27:B1:67:ILE:HA	1.89	0.55
27:B1:71:TYR:O	27:B1:74:VAL:CB	2.55	0.55
29:B3:45:GLY:HA2	29:B3:48:GLU:HG2	1.87	0.55
33:B7:11:LYS:O	33:B7:14:LYS:N	2.39	0.55
33:B7:31:LEU:O	33:B7:33:ARG:N	2.40	0.55
36:BA:380:U:H2'	36:BA:381:G:H8	1.69	0.55
36:BA:1215:G:H4'	53:BU:8:VAL:HG21	1.89	0.55
36:BA:1451:C:H4'	36:BA:1452:A:C8	2.42	0.55
36:BA:2033:A:O2'	36:BA:2034:U:OP1	2.24	0.55
36:BA:2223:G:H2'	36:BA:2224:G:H5'	1.89	0.55
36:BA:2339:G:H2'	36:BA:2340:G:H8	1.72	0.55
36:BA:2530:A:H2'	36:BA:2531:A:H5''	1.88	0.55
38:BC:7:TYR:CZ	38:BC:11:LEU:HD21	2.41	0.55
40:BE:199:ARG:CZ	40:BE:199:ARG:HB2	2.36	0.55
46:BN:128:HIS:HD2	46:BN:130:HIS:CE1	2.25	0.55
49:BQ:50:ALA:O	49:BQ:51:ARG:C	2.43	0.55
52:BT:11:GLU:C	52:BT:13:ARG:H	2.09	0.55
53:BU:108:GLU:OE2	54:BV:44:LYS:HB3	2.06	0.55
1:CA:1250:A:H4'	9:CI:68:GLY:H	1.70	0.55
1:CA:1363(A):A:H1'	1:CA:1365:G:C5	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:200:ILE:H	2:CB:200:ILE:CD1	2.04	0.55
4:CD:100:ARG:HB3	4:CD:103:ASN:HB3	1.89	0.55
5:CE:148:VAL:C	5:CE:150:ARG:H	2.08	0.55
6:CF:33:TYR:HB2	6:CF:75:LEU:HD13	1.88	0.55
18:CR:24:ALA:C	18:CR:26:LEU:H	2.09	0.55
25:CZ:143:ASP:OD1	25:CZ:146:LEU:HB2	2.07	0.55
25:CZ:255:ILE:HG22	25:CZ:302:GLN:NE2	2.22	0.55
27:D1:7:ILE:HD12	27:D1:70:VAL:HG23	1.87	0.55
30:D4:7:PRO:O	30:D4:8:LYS:HB3	2.07	0.55
31:D5:44:THR:HG22	31:D5:45:VAL:N	2.19	0.55
34:D8:3:LYS:HD2	36:DA:242:G:C8	2.41	0.55
36:DA:48:G:N2	36:DA:177:G:N2	2.54	0.55
36:DA:329:G:OP1	57:DY:71:LYS:HD3	2.07	0.55
36:DA:391:G:O2'	36:DA:392:C:H5'	2.06	0.55
36:DA:415:A:N1	36:DA:2409:G:C6	2.75	0.55
36:DA:847:U:H2'	36:DA:848:G:H5''	1.89	0.55
36:DA:886:C:O2'	36:DA:887:A:C4'	2.54	0.55
36:DA:2316:C:H2'	36:DA:2317:C:H6	1.71	0.55
36:DA:2596:U:H3'	36:DA:2597:G:H8	1.71	0.55
36:DA:2837:G:H2'	36:DA:2838:G:C8	2.34	0.55
39:DD:161:THR:H	39:DD:196:VAL:HB	1.71	0.55
40:DE:56:PRO:O	40:DE:57:LYS:HB2	2.06	0.55
41:DF:130:ALA:HB3	41:DF:142:TRP:CD1	2.41	0.55
42:DG:12:TYR:O	42:DG:16:ARG:HB2	2.06	0.55
42:DG:106:LEU:HG	42:DG:107:LEU:HD23	1.89	0.55
42:DG:125:PHE:C	42:DG:127:GLY:N	2.61	0.55
42:DG:129:GLY:HA3	42:DG:163:ALA:O	2.07	0.55
43:DH:156:ALA:C	43:DH:158:HIS:H	2.09	0.55
47:DO:7:TYR:CE1	47:DO:20:MET:HE3	2.35	0.55
48:DP:24:GLY:HA3	48:DP:33:ARG:HH12	1.72	0.55
48:DP:24:GLY:CA	48:DP:33:ARG:HH12	2.20	0.55
52:DT:32:TYR:CG	52:DT:81:PRO:HB3	2.42	0.55
53:DU:66:ASN:CG	53:DU:76:TYR:HB2	2.26	0.55
1:AA:642:A:N7	8:AH:115:SER:HA	2.22	0.55
1:AA:666:G:C5	1:AA:741:G:C6	2.95	0.55
1:AA:678:U:H2'	1:AA:679:C:C6	2.42	0.55
1:AA:803:G:C6	1:AA:804:U:C4	2.94	0.55
1:AA:1166:G:H1'	1:AA:1171:G:H22	1.72	0.55
1:AA:1207:G:H2'	1:AA:1208:C:H6	1.72	0.55
1:AA:1269:A:H2'	1:AA:1270:C:H5'	1.87	0.55
1:AA:1433:A:N6	1:AA:1434:A:C6	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:179:LYS:HA	8:AH:72:PRO:CD	2.36	0.55
7:AG:143:ARG:O	7:AG:144:MET:C	2.46	0.55
7:AG:150:ALA:HB2	11:AK:50:TYR:CE2	2.42	0.55
8:AH:97:VAL:HA	8:AH:100:ILE:HG13	1.89	0.55
8:AH:109:ILE:CG2	8:AH:137:VAL:HB	2.36	0.55
9:AI:65:VAL:HG11	9:AI:73:GLN:NE2	2.22	0.55
9:AI:110:GLU:HG2	9:AI:113:LYS:HZ1	1.68	0.55
13:AM:2:ALA:HB3	13:AM:9:ILE:CG2	2.37	0.55
13:AM:6:GLY:C	13:AM:8:GLU:N	2.60	0.55
13:AM:19:LEU:HD12	13:AM:25:ILE:CD1	2.37	0.55
24:AY:24:G:O2'	24:AY:25:C:H5'	2.07	0.55
27:B1:73:LEU:HD22	27:B1:94:LEU:HB3	1.89	0.55
27:B1:82:LEU:C	27:B1:83:GLU:HG3	2.27	0.55
28:B2:3:LEU:O	28:B2:3:LEU:HD23	2.07	0.55
28:B2:11:GLU:O	28:B2:15:LYS:HE3	2.06	0.55
28:B2:30:ARG:HG3	56:BX:5:TYR:CE2	2.42	0.55
30:B4:5:ILE:HD13	30:B4:5:ILE:H	1.71	0.55
36:BA:108:U:H2'	36:BA:109:G:C8	2.42	0.55
36:BA:133:C:N3	36:BA:146:G:O6	2.40	0.55
36:BA:325:G:H2'	36:BA:326:G:H8	1.72	0.55
36:BA:463:G:C2	36:BA:467:G:C6	2.94	0.55
36:BA:774:A:H2	36:BA:787:U:O2'	1.89	0.55
36:BA:1437:C:H2'	36:BA:1437:C:O2	2.05	0.55
36:BA:1798:U:H5'	39:BD:259:THR:HB	1.88	0.55
36:BA:1853:A:H1'	36:BA:2233:U:O2'	2.06	0.55
36:BA:2065:C:H2'	36:BA:2066:C:C6	2.42	0.55
36:BA:2623:G:O5'	36:BA:2826:A:H1'	2.07	0.55
36:BA:2746:U:H2'	36:BA:2747:G:H8	1.71	0.55
38:BC:6:ARG:HD2	38:BC:34:THR:HG22	1.88	0.55
39:BD:11:PRO:C	39:BD:13:ARG:H	2.10	0.55
39:BD:164:GLN:OE1	39:BD:176:ARG:NH2	2.40	0.55
41:BF:158:THR:HB	41:BF:195:ASP:CB	2.36	0.55
42:BG:10:LYS:HE2	42:BG:14:GLU:OE2	2.07	0.55
42:BG:138:GLN:O	42:BG:140:ILE:N	2.40	0.55
46:BN:130:HIS:O	46:BN:130:HIS:CG	2.60	0.55
48:BP:85:LEU:CD1	48:BP:120:ALA:HB2	2.37	0.55
52:BT:26:ASP:HB3	52:BT:89:VAL:O	2.07	0.55
54:BV:16:PRO:O	54:BV:96:ILE:HB	2.06	0.55
54:BV:78:LYS:O	54:BV:79:VAL:HG23	2.07	0.55
55:BW:107:LEU:HD12	55:BW:107:LEU:N	2.22	0.55
58:BZ:141:VAL:O	58:BZ:141:VAL:HG12	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:777:A:H2'	1:CA:778:G:C8	2.42	0.55
1:CA:815:A:C2	1:CA:1529:G:C4	2.95	0.55
1:CA:951:G:C6	1:CA:1231:G:C6	2.95	0.55
1:CA:1504:G:H4'	1:CA:1505:G:H5'	1.89	0.55
2:CB:130:ARG:NH2	2:CB:134:GLU:HG3	2.22	0.55
4:CD:73:ARG:O	4:CD:77:ASN:HB2	2.07	0.55
8:CH:100:ILE:HG23	8:CH:101:PRO:HD2	1.89	0.55
10:CJ:34:VAL:HG22	10:CJ:74:ILE:CG2	2.30	0.55
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.36	0.55
26:D0:3:HIS:HB2	36:DA:2494:G:OP1	2.07	0.55
28:D2:25:VAL:C	28:D2:27:GLU:N	2.60	0.55
31:D5:48:GLU:O	31:D5:49:CYS:CB	2.55	0.55
33:D7:15:THR:CG2	33:D7:15:THR:O	2.55	0.55
34:D8:10:ALA:C	34:D8:12:LYS:N	2.58	0.55
36:DA:71:A:O2'	36:DA:72:U:OP2	2.19	0.55
36:DA:177:G:H3'	36:DA:178:G:C8	2.42	0.55
36:DA:197:A:N6	36:DA:2430:A:H2'	2.21	0.55
36:DA:378:C:H2'	36:DA:379:G:H8	1.71	0.55
36:DA:1741:A:H3'	36:DA:1742:G:C8	2.42	0.55
36:DA:2051:A:OP1	40:DE:137:HIS:ND1	2.40	0.55
36:DA:2133:G:O2'	36:DA:2134:A:H8	1.90	0.55
37:DB:2:C:H2'	37:DB:3:C:C6	2.42	0.55
39:DD:67:PHE:CE1	39:DD:157:ARG:NH2	2.74	0.55
39:DD:125:ILE:O	39:DD:125:ILE:HG22	2.07	0.55
39:DD:149:PRO:CG	39:DD:186:HIS:HD2	2.20	0.55
40:DE:48:GLN:NE2	40:DE:78:LEU:HD13	2.22	0.55
46:DN:120:LEU:HD13	46:DN:122:VAL:HG23	1.88	0.55
51:DS:37:ALA:HB2	51:DS:99:LYS:HZ1	1.71	0.55
52:DT:78:LEU:O	52:DT:79:HIS:HD2	1.89	0.55
53:DU:108:GLU:OE2	54:DV:44:LYS:HB3	2.06	0.55
1:AA:1030(A):G:H1'	1:AA:1031:G:H1	1.71	0.55
2:AB:185:ILE:CG2	2:AB:199:TYR:HB2	2.35	0.55
5:AE:78:HIS:O	5:AE:78:HIS:ND1	2.40	0.55
6:AF:53:ALA:HB3	6:AF:86:ARG:NH1	2.22	0.55
10:AJ:35:SER:OG	10:AJ:73:ASP:HB2	2.07	0.55
11:AK:105:VAL:O	11:AK:105:VAL:HG23	2.07	0.55
15:AO:8:LYS:O	15:AO:9:GLN:C	2.45	0.55
19:AS:24:ALA:O	19:AS:25:LYS:CB	2.55	0.55
20:AT:19:SER:C	20:AT:21:LYS:N	2.59	0.55
22:AV:1:G:H2'	22:AV:2:C:H6	1.72	0.55
25:AZ:244:ARG:HH11	25:AZ:244:ARG:CB	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B6:42:TRP:O	32:B6:44:ARG:N	2.35	0.55
35:B9:35:ARG:HD3	36:BA:2742:C:OP1	2.07	0.55
35:B9:35:ARG:O	35:B9:35:ARG:HG2	2.07	0.55
36:BA:308:G:H2'	36:BA:309:G:C8	2.42	0.55
36:BA:329:G:OP1	57:BY:71:LYS:HD3	2.07	0.55
36:BA:1131:G:OP2	36:BA:2515:C:H4'	2.07	0.55
36:BA:1138:G:H1	36:BA:1143:A:H2	1.53	0.55
36:BA:1493:C:H4'	36:BA:1494:A:OP1	2.07	0.55
36:BA:2252:G:C2'	36:BA:2253:G:H5'	2.36	0.55
39:BD:73:VAL:O	39:BD:75:ILE:N	2.40	0.55
39:BD:75:ILE:HG22	39:BD:97:TYR:HD2	1.72	0.55
39:BD:77:ALA:HB2	39:BD:97:TYR:HA	1.88	0.55
45:BK:88:UNK:C	45:BK:90:UNK:N	2.69	0.55
46:BN:93:THR:O	46:BN:93:THR:HG23	2.06	0.55
46:BN:120:LEU:HD13	46:BN:122:VAL:HG23	1.89	0.55
48:BP:105:LEU:HD12	48:BP:105:LEU:N	2.22	0.55
49:BQ:140:ALA:HA	58:BZ:99:TYR:CD1	2.41	0.55
55:BW:76:VAL:HB	55:BW:103:ILE:HG23	1.89	0.55
58:BZ:9:TYR:HE2	58:BZ:61:LEU:HD13	1.71	0.55
58:BZ:20:ARG:HG3	58:BZ:21:ALA:N	2.22	0.55
58:BZ:102:LEU:CD2	58:BZ:137:ILE:HB	2.37	0.55
1:CA:606:G:H21	1:CA:631:G:H2'	1.71	0.55
1:CA:946:A:C6	1:CA:947:G:C6	2.95	0.55
1:CA:1260:C:H6	1:CA:1260:C:H3'	1.72	0.55
1:CA:1477:C:H2'	1:CA:1478:C:H6	1.68	0.55
3:CC:118:GLN:O	3:CC:121:ALA:HB3	2.06	0.55
3:CC:121:ALA:HA	3:CC:124:ILE:HD12	1.89	0.55
4:CD:71:SER:O	4:CD:72:GLU:C	2.44	0.55
4:CD:135:LEU:HD13	4:CD:135:LEU:N	2.21	0.55
7:CG:84:ASN:OD1	22:CW:33:U:C5'	2.54	0.55
13:CM:116:THR:HG22	13:CM:117:VAL:N	2.22	0.55
15:CO:87:ILE:HG22	15:CO:88:ARG:N	2.16	0.55
17:CQ:59:ILE:CG2	17:CQ:71:PHE:HB3	2.37	0.55
17:CQ:90:ILE:O	17:CQ:93:GLN:N	2.40	0.55
25:CZ:26:THR:HG22	62:CZ:501:GDP:O2A	2.07	0.55
25:CZ:234:ARG:NE	25:CZ:289:LEU:HD22	2.22	0.55
32:D6:8:LYS:HA	32:D6:27:LYS:CD	2.36	0.55
35:D9:35:ARG:HD3	36:DA:2742:C:OP1	2.07	0.55
36:DA:19:C:O2'	36:DA:20:C:H5'	2.07	0.55
36:DA:90:U:H2'	36:DA:90:U:O2	2.06	0.55
36:DA:535:C:O2'	36:DA:536:A:H5'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:613:G:H5'	36:DA:613:G:H8	1.71	0.55
36:DA:718:A:C2'	36:DA:719:C:H5'	2.37	0.55
36:DA:1012:U:O4	46:DN:28:THR:HG21	2.07	0.55
36:DA:1064:C:H2'	36:DA:1065:U:H5''	1.88	0.55
36:DA:1215:G:H4'	53:DU:8:VAL:HG21	1.89	0.55
36:DA:1248:G:OP1	41:DF:92:PRO:HG3	2.07	0.55
36:DA:1775:U:H2'	36:DA:1776:G:O4'	2.07	0.55
36:DA:1903:G:OP2	39:DD:241:PRO:HB2	2.07	0.55
36:DA:1968:G:C2'	36:DA:1969:A:H5''	2.36	0.55
36:DA:2151:G:H2'	36:DA:2152:G:H8	1.70	0.55
36:DA:2303:G:H4'	42:DG:124:SER:O	2.06	0.55
36:DA:2441:C:H2'	36:DA:2442:C:C6	2.36	0.55
36:DA:2513:G:C2	36:DA:2514:U:C2	2.94	0.55
36:DA:2687:U:C4	36:DA:2688:U:C5	2.95	0.55
39:DD:196:VAL:O	39:DD:196:VAL:HG12	2.06	0.55
43:DH:66:GLY:HA2	43:DH:69:ARG:NE	2.22	0.55
46:DN:6:PRO:CB	46:DN:41:ASP:OD1	2.55	0.55
47:DO:4:PRO:O	47:DO:5:GLN:CB	2.54	0.55
48:DP:85:LEU:CD1	48:DP:120:ALA:HB2	2.36	0.55
51:DS:96:GLY:O	51:DS:98:VAL:N	2.37	0.55
57:DY:95:LYS:HE3	57:DY:100:ALA:HB2	1.89	0.55
58:DZ:23:LYS:O	58:DZ:24:LEU:HB2	2.07	0.55
58:DZ:86:VAL:O	58:DZ:87:ASP:OD1	2.25	0.55
1:AA:156:G:H1'	1:AA:166:G:N2	2.23	0.54
1:AA:351:G:C4'	1:AA:352:C:OP1	2.54	0.54
1:AA:367:U:H4'	25:AZ:291:ARG:HD2	1.88	0.54
1:AA:1314:C:H2'	1:AA:1315:U:C5	2.41	0.54
2:AB:89:GLY:O	2:AB:90:MET:HG2	2.06	0.54
3:AC:113:ALA:HB3	3:AC:185:GLY:N	2.22	0.54
4:AD:132:ARG:HH11	4:AD:132:ARG:HG2	1.70	0.54
6:AF:2:ARG:HG3	6:AF:69:GLU:OE1	2.07	0.54
10:AJ:40:LEU:HD23	10:AJ:40:LEU:H	1.70	0.54
15:AO:17:ARG:HG3	15:AO:17:ARG:HH11	1.72	0.54
24:AY:56:C:C1'	36:BA:1067:A:H1'	2.38	0.54
25:AZ:118:GLU:O	25:AZ:120:ILE:N	2.41	0.54
26:B0:24:LYS:HD2	36:BA:2355:C:H4'	1.89	0.54
27:B1:50:ARG:NH2	36:BA:2201:C:OP2	2.40	0.54
31:B5:2:ALA:N	36:BA:747:U:H3	2.04	0.54
32:B6:42:TRP:C	32:B6:44:ARG:N	2.61	0.54
36:BA:185:U:C2	36:BA:212:G:N2	2.75	0.54
36:BA:284:U:O5'	36:BA:284:U:H6	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:320:A:C2	36:BA:323:G:N1	2.75	0.54
36:BA:631:A:C5'	48:BP:65:ARG:HG2	2.37	0.54
36:BA:823:G:N2	36:BA:2358:G:C8	2.75	0.54
36:BA:955:C:H2'	36:BA:956:G:H5'	1.89	0.54
36:BA:1154:G:H5''	53:BU:59:ARG:NH2	2.22	0.54
36:BA:1205:U:C5	41:BF:171:PRO:HA	2.41	0.54
36:BA:1278:A:H2'	36:BA:1279:G:C8	2.42	0.54
36:BA:1568:G:H4'	39:BD:59:LYS:CG	2.37	0.54
36:BA:2051:A:H5'	36:BA:2578:G:O4'	2.07	0.54
36:BA:2245:U:H5'	36:BA:2246:G:C5'	2.32	0.54
39:BD:80:ALA:HB3	39:BD:94:LEU:O	2.06	0.54
40:BE:147:PRO:HB2	40:BE:149:ARG:HG2	1.89	0.54
40:BE:165:VAL:HG11	40:BE:189:PRO:HB3	1.89	0.54
43:BH:66:GLY:HA2	43:BH:69:ARG:NE	2.22	0.54
45:BK:117:UNK:O	45:BK:118:UNK:CB	2.54	0.54
47:BO:43:VAL:HG23	47:BO:56:ASP:O	2.06	0.54
51:BS:29:PHE:CE2	51:BS:31:SER:HB2	2.42	0.54
54:BV:49:THR:O	54:BV:50:PRO:C	2.45	0.54
1:CA:612:C:H42	1:CA:628:G:H1	1.54	0.54
1:CA:1442(B):A:C2	52:DT:118:ARG:NH2	2.74	0.54
4:CD:61:LYS:NZ	4:CD:72:GLU:OE2	2.39	0.54
4:CD:186:LEU:O	4:CD:187:ARG:HB2	2.07	0.54
7:CG:69:VAL:HG23	7:CG:135:VAL:HA	1.90	0.54
12:CL:115:LYS:O	12:CL:117:ARG:N	2.40	0.54
13:CM:91:ARG:O	13:CM:95:GLY:N	2.40	0.54
14:CN:7:ILE:HG13	14:CN:8:GLU:N	2.22	0.54
19:CS:18:LYS:HG3	19:CS:18:LYS:O	2.07	0.54
24:CY:68:U:H2'	24:CY:69:C:C6	2.41	0.54
28:D2:33:MET:HG3	28:D2:37:PHE:CE1	2.42	0.54
30:D4:25:TYR:N	30:D4:25:TYR:CD1	2.75	0.54
33:D7:11:LYS:O	33:D7:14:LYS:N	2.39	0.54
36:DA:18:C:O3'	53:DU:23:GLY:HA2	2.07	0.54
36:DA:242:G:N2	36:DA:254:G:H2'	2.21	0.54
36:DA:272:G:H1	36:DA:404:C:H42	1.54	0.54
36:DA:333:G:H2'	36:DA:333:G:N3	2.22	0.54
36:DA:812:C:H2'	36:DA:813:U:H6	1.72	0.54
36:DA:1087:G:C2'	36:DA:1088:A:H4'	2.31	0.54
36:DA:1446:C:H42	36:DA:1465:G:H1	1.54	0.54
36:DA:1551:C:C2'	36:DA:1552:G:H5'	2.37	0.54
36:DA:1601:G:O2'	36:DA:1602:U:H5'	2.06	0.54
36:DA:2154:G:H8	36:DA:2154:G:O5'	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2290:G:C2	36:DA:2343:C:O2	2.60	0.54
40:DE:119:ARG:NH1	40:DE:158:GLY:HA3	2.21	0.54
41:DF:118:ALA:O	41:DF:120:GLU:N	2.40	0.54
42:DG:122:PRO:HB3	42:DG:182:LYS:H	1.70	0.54
43:DH:114:VAL:O	43:DH:114:VAL:HG23	2.07	0.54
46:DN:46:VAL:HG13	46:DN:48:MET:H	1.72	0.54
49:DQ:120:ILE:HG22	49:DQ:124:LYS:HE2	1.88	0.54
50:DR:87:TYR:O	50:DR:89:ASP:N	2.39	0.54
52:DT:1:MET:O	52:DT:1:MET:HG3	2.08	0.54
58:DZ:18:LEU:N	58:DZ:18:LEU:HD13	2.21	0.54
58:DZ:151:HIS:HA	58:DZ:171:ILE:HG12	1.89	0.54
1:AA:863:U:H2'	1:AA:864:A:H5''	1.89	0.54
1:AA:973:G:C6	1:AA:974:A:N6	2.76	0.54
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.06	0.54
1:AA:1348:U:H4'	9:AI:120:ARG:CD	2.36	0.54
2:AB:14:GLY:C	2:AB:15:VAL:HG22	2.27	0.54
4:AD:73:ARG:O	4:AD:77:ASN:HB2	2.07	0.54
8:AH:94:TYR:N	8:AH:94:TYR:HD1	2.04	0.54
12:AL:84:LEU:HD12	12:AL:104:VAL:HG11	1.89	0.54
12:AL:86:ARG:CG	12:AL:87:GLY:N	2.70	0.54
18:AR:32:ARG:O	18:AR:69:THR:HG21	2.07	0.54
19:AS:42:PRO:O	19:AS:43:GLU:HB3	2.07	0.54
22:AV:7:A:N6	22:AV:49:C:N4	2.55	0.54
22:AW:18:G:H1	22:AW:55:U:H1'	1.72	0.54
25:AZ:19:HIS:HA	25:AZ:115:GLN:CB	2.37	0.54
25:AZ:38:GLU:HB2	25:AZ:189:ARG:NH1	2.22	0.54
28:B2:17:SER:CB	28:B2:20:GLU:HB3	2.36	0.54
29:B3:31:LEU:HD23	29:B3:32:GLN:H	1.72	0.54
35:B9:25:VAL:O	35:B9:25:VAL:HG12	2.07	0.54
36:BA:479:A:O2'	36:BA:481:G:H8	1.90	0.54
36:BA:528:A:C2	36:BA:2043:C:H4'	2.42	0.54
36:BA:819:A:N6	36:BA:1189:A:H1'	2.22	0.54
36:BA:977:G:O2'	36:BA:978:G:H5'	2.07	0.54
36:BA:1150:C:O2'	36:BA:1151:G:H5'	2.07	0.54
36:BA:1288:U:C2	36:BA:1327:C:O2	2.60	0.54
36:BA:1504:C:O2'	36:BA:1505:C:C5'	2.56	0.54
36:BA:1812:A:C1'	39:BD:46:GLN:HE22	2.20	0.54
36:BA:2084:C:H2'	36:BA:2085:C:C6	2.42	0.54
36:BA:2316:C:H2'	36:BA:2317:C:C6	2.42	0.54
37:BB:2:C:H2'	37:BB:3:C:C6	2.42	0.54
37:BB:70:C:H2'	37:BB:71:C:H6	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:75:LEU:HD11	38:BC:113:VAL:HA	1.89	0.54
39:BD:81:ALA:HA	39:BD:113:VAL:HG21	1.88	0.54
41:BF:167:ALA:C	41:BF:173:VAL:HG11	2.27	0.54
41:BF:168:ARG:CG	41:BF:169:ASN:H	2.19	0.54
42:BG:9:ARG:O	42:BG:11:TYR:N	2.40	0.54
42:BG:110:ALA:HB1	42:BG:140:ILE:HD13	1.88	0.54
43:BH:130:ARG:HB3	43:BH:130:ARG:CZ	2.37	0.54
45:BK:98:UNK:HA	45:BK:135:UNK:CB	2.37	0.54
46:BN:61:ARG:HG3	46:BN:61:ARG:NH1	2.22	0.54
49:BQ:35:VAL:HG22	49:BQ:36:ALA:N	2.22	0.54
1:CA:790:A:H2'	1:CA:791:G:C8	2.42	0.54
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.42	0.54
1:CA:1316:G:H4'	14:CN:18:VAL:HG11	1.89	0.54
1:CA:1499:A:H1'	1:CA:1520:G:H5'	1.88	0.54
1:CA:1524:C:H2'	1:CA:1525:G:O4'	2.07	0.54
2:CB:32:ILE:HG12	2:CB:33:TYR:H	1.72	0.54
2:CB:121:LEU:O	2:CB:122:PHE:C	2.44	0.54
4:CD:96:LEU:HG	4:CD:139:ARG:NH2	2.22	0.54
4:CD:138:TYR:HD2	4:CD:138:TYR:C	2.10	0.54
5:CE:12:LEU:O	5:CE:12:LEU:HD13	2.06	0.54
5:CE:20:GLN:NE2	5:CE:25:ARG:CZ	2.70	0.54
6:CF:2:ARG:CD	6:CF:69:GLU:HB3	2.37	0.54
7:CG:44:TYR:HE1	9:CI:41:VAL:HG11	1.72	0.54
8:CH:36:LEU:O	8:CH:38:ILE:N	2.40	0.54
9:CI:82:ALA:HA	9:CI:85:LEU:HD11	1.89	0.54
13:CM:19:LEU:HD12	13:CM:25:ILE:CD1	2.37	0.54
19:CS:6:LYS:HD2	19:CS:6:LYS:N	2.16	0.54
20:CT:88:VAL:O	20:CT:91:LEU:HB2	2.06	0.54
25:CZ:72:THR:CG2	25:CZ:203:LEU:HD23	2.29	0.54
25:CZ:249:VAL:HG13	25:CZ:268:THR:HA	1.89	0.54
25:CZ:389:ARG:CA	25:CZ:395:VAL:HG13	2.35	0.54
26:D0:58:THR:HG22	26:D0:59:LEU:N	2.22	0.54
36:DA:61:G:H8	36:DA:61:G:O5'	1.90	0.54
36:DA:85:G:O5'	57:DY:30:VAL:HB	2.08	0.54
36:DA:237:C:N3	36:DA:261:G:C2	2.74	0.54
36:DA:532:A:C5'	53:DU:28:ARG:HH12	2.21	0.54
36:DA:536:A:P	53:DU:53:ARG:HH11	2.29	0.54
36:DA:709:U:H3	36:DA:722:A:H61	1.55	0.54
36:DA:843:G:O2'	36:DA:844:C:H5'	2.08	0.54
36:DA:996:A:H4'	53:DU:92:ARG:CG	2.36	0.54
36:DA:1170:G:OP2	36:DA:1170:G:H8	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1853:A:H1'	36:DA:2233:U:O2'	2.08	0.54
36:DA:2252:G:O2'	36:DA:2253:G:H5'	2.06	0.54
36:DA:2282:G:H4'	36:DA:2283:C:O5'	2.06	0.54
36:DA:2364:C:H2'	36:DA:2365:G:O4'	2.07	0.54
36:DA:2450:A:O2'	36:DA:2451:A:H5'	2.08	0.54
36:DA:2547:U:O2	47:DO:23:ARG:NH1	2.40	0.54
36:DA:2631:G:H22	40:DE:61:ARG:NH1	2.02	0.54
41:DF:3:GLU:HA	41:DF:24:LEU:HB2	1.87	0.54
41:DF:206:ILE:HG22	41:DF:207:GLY:N	2.13	0.54
43:DH:40:GLU:HB2	43:DH:64:LEU:CD1	2.36	0.54
43:DH:118:PRO:CG	43:DH:121:ILE:HB	2.35	0.54
43:DH:127:GLU:HB2	43:DH:130:ARG:HB2	1.89	0.54
46:DN:16:ILE:HD12	46:DN:139:GLU:N	2.22	0.54
48:DP:113:LYS:HA	48:DP:129:ALA:O	2.07	0.54
52:DT:80:SER:CB	52:DT:81:PRO:CD	2.85	0.54
52:DT:107:ASP:OD1	52:DT:109:GLU:HB2	2.06	0.54
53:DU:91:ASP:OD1	53:DU:96:ALA:HB2	2.07	0.54
53:DU:96:ALA:C	53:DU:98:LEU:H	2.09	0.54
54:DV:71:LEU:HD21	54:DV:84:LYS:HE2	1.89	0.54
57:DY:75:ILE:HG13	57:DY:76:CYS:H	1.73	0.54
58:DZ:151:HIS:HB3	58:DZ:170:THR:HA	1.89	0.54
1:AA:780:A:H2	1:AA:802:A:N7	2.05	0.54
1:AA:868:C:H2'	1:AA:869:G:O4'	2.07	0.54
1:AA:1060:C:C5'	10:AJ:51:ARG:HB3	2.36	0.54
4:AD:108:LEU:HD12	4:AD:165:MET:HE1	1.89	0.54
4:AD:133:VAL:HG12	4:AD:135:LEU:H	1.73	0.54
8:AH:11:THR:O	8:AH:15:ASN:ND2	2.40	0.54
8:AH:40:ALA:HB2	8:AH:45:ILE:HG13	1.88	0.54
11:AK:77:MET:O	11:AK:78:GLN:HG2	2.07	0.54
13:AM:77:ASN:O	13:AM:80:ARG:HB3	2.08	0.54
15:AO:9:GLN:O	15:AO:10:LYS:C	2.44	0.54
27:B1:26:ARG:O	27:B1:27:GLU:O	2.24	0.54
28:B2:37:PHE:CE2	56:BX:8:ILE:O	2.60	0.54
28:B2:60:LEU:O	28:B2:63:VAL:HB	2.06	0.54
31:B5:16:ARG:HH11	31:B5:20:ARG:NH1	2.03	0.54
34:B8:32:LEU:HD12	36:BA:2391:G:OP1	2.07	0.54
34:B8:53:PRO:HA	34:B8:56:GLU:OE1	2.07	0.54
36:BA:438:G:H2'	36:BA:440:G:H8	1.71	0.54
36:BA:1370:C:H2'	36:BA:1371:G:O4'	2.08	0.54
36:BA:1637:A:H2'	36:BA:1638:C:O4'	2.08	0.54
36:BA:2063:C:O2	36:BA:2450:A:N1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2068:U:C2	36:BA:2430:A:H2	2.24	0.54
36:BA:2389:G:C5'	36:BA:2390:U:H5'	2.35	0.54
39:BD:39:LYS:HB2	39:BD:62:TYR:HB2	1.88	0.54
40:BE:38:THR:HG23	40:BE:39:PRO:HD2	1.90	0.54
41:BF:32:LEU:HD22	41:BF:109:GLY:HA3	1.90	0.54
41:BF:62:ARG:HH11	41:BF:62:ARG:HG2	1.73	0.54
41:BF:154:VAL:HG22	41:BF:191:ARG:HB3	1.89	0.54
42:BG:13:GLU:O	42:BG:17:PRO:HG3	2.08	0.54
42:BG:39:ILE:HA	42:BG:156:ASP:O	2.08	0.54
42:BG:121:ASN:OD1	42:BG:123:ASN:C	2.46	0.54
43:BH:85:LYS:HE3	43:BH:87:LEU:HG	1.88	0.54
43:BH:137:ASP:OD1	43:BH:138:LYS:N	2.40	0.54
50:BR:97:VAL:HA	50:BR:113:LEU:O	2.07	0.54
1:CA:52:G:O2'	1:CA:53:A:H5'	2.07	0.54
1:CA:292:G:H1	1:CA:308:C:H42	1.54	0.54
1:CA:445:G:H2'	1:CA:446:G:H8	1.71	0.54
1:CA:828:A:H4'	1:CA:828:A:OP1	2.07	0.54
1:CA:939:G:H1	1:CA:1344:C:H42	1.55	0.54
1:CA:1051:C:O2'	1:CA:1052:U:H5'	2.07	0.54
1:CA:1087:G:H2'	1:CA:1088:G:H8	1.72	0.54
3:CC:175:LEU:HD21	3:CC:201:TYR:CE2	2.43	0.54
5:CE:79:GLU:HA	5:CE:92:LYS:HA	1.89	0.54
6:CF:24:GLU:HA	6:CF:27:GLN:HG2	1.88	0.54
8:CH:11:THR:HG23	8:CH:14:ARG:NH1	2.18	0.54
8:CH:19:VAL:O	8:CH:20:TYR:C	2.45	0.54
14:CN:8:GLU:C	14:CN:10:ALA:H	2.10	0.54
19:CS:10:PHE:CE1	19:CS:70:LYS:HD2	2.43	0.54
22:CW:76:A:N6	36:DA:2421:G:H2'	2.22	0.54
26:D0:10:THR:HG22	26:D0:12:ASN:H	1.71	0.54
31:D5:6:VAL:HG22	36:DA:2016:U:H1'	1.89	0.54
32:D6:48:VAL:O	32:D6:49:HIS:CG	2.61	0.54
33:D7:22:MET:O	33:D7:28:ARG:NH1	2.41	0.54
36:DA:553:G:O2'	36:DA:554:U:H5'	2.07	0.54
36:DA:738:G:C2'	36:DA:739:G:H5'	2.36	0.54
36:DA:1012:U:C4	46:DN:28:THR:HG21	2.42	0.54
36:DA:1252:G:O4'	53:DU:33:ARG:HD3	2.07	0.54
36:DA:1901:A:C2'	36:DA:1902:C:H5'	2.38	0.54
36:DA:2076:U:H6	36:DA:2076:U:OP1	1.90	0.54
36:DA:2092:U:C4'	36:DA:2093:G:H5''	2.36	0.54
36:DA:2190:G:N3	36:DA:2190:G:H2'	2.22	0.54
36:DA:2221:G:C6	36:DA:2222:G:C6	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2297:C:C2'	36:DA:2298:A:H5'	2.37	0.54
36:DA:2339:G:H2'	36:DA:2340:G:H8	1.72	0.54
36:DA:2760:C:C3'	36:DA:2761:G:H5''	2.37	0.54
38:DC:6:ARG:NH1	38:DC:6:ARG:O	2.40	0.54
38:DC:103:ILE:HG23	38:DC:107:TRP:CB	2.37	0.54
38:DC:196:LEU:O	38:DC:197:GLU:C	2.46	0.54
40:DE:1:MET:H3	40:DE:84:PHE:HB2	1.72	0.54
40:DE:147:PRO:HB2	40:DE:149:ARG:HG2	1.89	0.54
42:DG:10:LYS:HG3	42:DG:14:GLU:OE2	2.06	0.54
42:DG:111:LEU:HB2	42:DG:112:PRO:HD3	1.89	0.54
46:DN:46:VAL:O	46:DN:47:ALA:HB3	2.06	0.54
49:DQ:19:GLY:O	49:DQ:20:ALA:HB3	2.07	0.54
51:DS:90:GLY:O	51:DS:92:TYR:HD1	1.90	0.54
55:DW:96:ILE:O	55:DW:96:ILE:HG23	2.07	0.54
1:AA:115:G:H4'	1:AA:116:A:O5'	2.08	0.54
1:AA:633:G:C5	1:AA:634:C:C5	2.96	0.54
1:AA:972:C:C4'	10:AJ:57:LYS:HG3	2.34	0.54
1:AA:1325:C:H5''	21:AU:15:ARG:NH2	2.23	0.54
1:AA:1374:A:O2'	1:AA:1375:A:H5'	2.07	0.54
1:AA:1485:U:O2	1:AA:1485:U:C2'	2.55	0.54
2:AB:73:THR:O	2:AB:74:LYS:C	2.46	0.54
4:AD:157:LEU:O	4:AD:161:ASN:ND2	2.41	0.54
8:AH:119:LEU:HD12	8:AH:124:ALA:HA	1.90	0.54
11:AK:92:GLU:OE2	11:AK:95:ILE:HD12	2.07	0.54
19:AS:27:GLU:O	19:AS:28:LYS:O	2.24	0.54
25:AZ:221:PHE:CE1	25:AZ:247:VAL:HG13	2.42	0.54
25:AZ:222:LEU:HD23	25:AZ:244:ARG:HH21	1.73	0.54
26:B0:32:ARG:HA	26:B0:64:ASP:HB3	1.89	0.54
26:B0:55:ARG:HH21	36:BA:2386:C:H5''	1.72	0.54
30:B4:42:PHE:O	30:B4:43:TYR:O	2.25	0.54
36:BA:233:A:H2'	36:BA:234:C:O4'	2.08	0.54
36:BA:712:G:H1	36:BA:719:C:H42	1.56	0.54
36:BA:966:G:H1'	36:BA:2267:A:N6	2.23	0.54
36:BA:1130:U:C2	36:BA:2025:C:H5''	2.43	0.54
36:BA:1901:A:C2'	36:BA:1902:C:H5'	2.37	0.54
36:BA:2041:U:H6	36:BA:2041:U:OP2	1.90	0.54
36:BA:2189:U:C2'	36:BA:2190:G:H4'	2.37	0.54
36:BA:2199:A:H3'	36:BA:2200:C:C6	2.43	0.54
36:BA:2284:C:H1'	36:BA:2325:G:N2	2.23	0.54
36:BA:2317:C:O2'	36:BA:2318:G:H5'	2.08	0.54
36:BA:2846:G:H2'	36:BA:2847:U:O4'	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2880:C:H3'	36:BA:2880:C:H6	1.73	0.54
37:BB:69:G:H2'	37:BB:69:G:N3	2.22	0.54
38:BC:74:VAL:HG11	38:BC:153:ILE:HG23	1.88	0.54
40:BE:167:VAL:O	40:BE:168:MET:O	2.25	0.54
43:BH:85:LYS:HE2	43:BH:86:GLU:N	2.23	0.54
47:BO:105:GLU:O	47:BO:109:LYS:CG	2.55	0.54
50:BR:13:HIS:CE1	50:BR:16:HIS:N	2.73	0.54
50:BR:28:LEU:CB	50:BR:34:ILE:HG13	2.38	0.54
51:BS:37:ALA:HB2	51:BS:99:LYS:HZ3	1.71	0.54
51:BS:106:ARG:HH11	51:BS:106:ARG:HB3	1.72	0.54
1:CA:54:C:H2'	1:CA:352:C:H42	1.70	0.54
1:CA:666:G:C5	1:CA:741:G:C6	2.94	0.54
1:CA:851:G:O2'	1:CA:852:G:H5'	2.08	0.54
1:CA:1054:C:O2	1:CA:1054:C:C3'	2.56	0.54
1:CA:1079:G:H2'	1:CA:1080:A:C8	2.43	0.54
1:CA:1234:C:O2'	1:CA:1235:U:H5'	2.05	0.54
1:CA:1255:G:O2'	1:CA:1258:G:H1'	2.08	0.54
1:CA:1260:C:H3'	1:CA:1260:C:C6	2.43	0.54
2:CB:16:HIS:HB3	2:CB:210:SER:CA	2.37	0.54
2:CB:155:LEU:HD11	2:CB:158:LEU:HA	1.88	0.54
6:CF:10:LEU:HD13	6:CF:59:TYR:HD2	1.72	0.54
8:CH:89:PRO:HA	8:CH:92:ARG:CD	2.38	0.54
13:CM:90:LEU:HA	13:CM:93:ARG:HB2	1.90	0.54
13:CM:108:ARG:HH11	13:CM:108:ARG:CG	2.20	0.54
14:CN:7:ILE:CG1	14:CN:8:GLU:N	2.71	0.54
20:CT:48:LYS:HB3	20:CT:51:GLU:HG3	1.89	0.54
24:CY:36:U:O2'	24:CY:37:YG:H5''	2.08	0.54
27:D1:5:CYS:CB	27:D1:8:SER:HG	2.19	0.54
29:D3:7:LYS:N	29:D3:54:VAL:HG13	2.22	0.54
32:D6:8:LYS:HD3	32:D6:27:LYS:HD3	1.89	0.54
32:D6:18:ARG:HE	32:D6:43:CYS:HB3	1.73	0.54
32:D6:42:TRP:C	32:D6:44:ARG:N	2.60	0.54
34:D8:53:PRO:HA	34:D8:56:GLU:OE1	2.07	0.54
35:D9:19:ARG:NH1	36:DA:2755:C:C4	2.75	0.54
36:DA:485:C:H2'	36:DA:486:C:C6	2.42	0.54
36:DA:573:G:H5'	36:DA:575:A:N7	2.22	0.54
36:DA:629:G:H2'	36:DA:630:G:O4'	2.08	0.54
36:DA:851:U:O2'	36:DA:852:G:H5'	2.06	0.54
36:DA:1061:U:H4'	36:DA:1070:A:C4'	2.37	0.54
36:DA:1190:G:C5'	48:DP:35:HIS:H	2.20	0.54
36:DA:1299:G:H4'	36:DA:1301:A:C4	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1336:A:H2'	36:DA:1337:G:H8	1.71	0.54
36:DA:1342:A:N1	36:DA:1345:C:C4	2.76	0.54
36:DA:1600:C:OP1	56:DX:58:HIS:NE2	2.41	0.54
36:DA:1665:A:C3'	36:DA:1666:G:C5'	2.86	0.54
36:DA:1758:G:N7	36:DA:2695:C:H4'	2.22	0.54
36:DA:1853:A:N6	36:DA:1889:A:C8	2.76	0.54
36:DA:1966:A:H2	36:DA:2592:G:N3	2.05	0.54
36:DA:2140:C:H2'	36:DA:2141:G:H8	1.72	0.54
36:DA:2389:G:H5''	36:DA:2390:U:C5'	2.34	0.54
36:DA:2550:G:C2'	36:DA:2551:C:H5'	2.37	0.54
36:DA:2657:A:O2'	43:DH:160:LYS:NZ	2.38	0.54
36:DA:2721:A:H2'	36:DA:2722:G:O4'	2.08	0.54
36:DA:2801(A):A:H5'	36:DA:2802:G:H8	1.71	0.54
38:DC:81:GLU:C	38:DC:82:LYS:HE2	2.28	0.54
39:DD:14:ARG:HG3	39:DD:15:PHE:N	2.22	0.54
39:DD:39:LYS:HB3	39:DD:60:ARG:O	2.08	0.54
42:DG:11:TYR:HD1	42:DG:15:VAL:HG21	1.71	0.54
42:DG:61:ALA:O	42:DG:65:GLY:N	2.36	0.54
43:DH:26:VAL:HG11	43:DH:75:ALA:O	2.07	0.54
48:DP:88:LEU:HD13	48:DP:100:LEU:HD21	1.90	0.54
53:DU:10:ARG:O	53:DU:13:LYS:N	2.40	0.54
53:DU:14:HIS:C	53:DU:16:LYS:N	2.61	0.54
1:AA:44:G:C6	1:AA:45:U:C2	2.96	0.54
1:AA:125:U:H2'	1:AA:126:G:H8	1.71	0.54
1:AA:198:G:HO2'	1:AA:199:G:H8	1.55	0.54
1:AA:328:C:H4'	1:AA:329:A:C5'	2.37	0.54
1:AA:335:C:O2'	1:AA:1433:A:N3	2.28	0.54
1:AA:370:C:H2'	1:AA:371:G:H8	1.72	0.54
1:AA:503:C:H2'	1:AA:504:C:C6	2.43	0.54
1:AA:506:G:H2'	1:AA:507:C:H6	1.70	0.54
1:AA:1442(B):A:C2	52:BT:118:ARG:CZ	2.90	0.54
2:AB:43:ASP:OD1	2:AB:45:GLN:HB3	2.08	0.54
2:AB:87:ARG:HH21	2:AB:233:SER:CB	2.21	0.54
2:AB:219:VAL:O	2:AB:222:ILE:HG12	2.07	0.54
3:AC:90:GLU:O	3:AC:93:LYS:HB3	2.08	0.54
4:AD:129:ASN:HD22	4:AD:129:ASN:N	1.90	0.54
5:AE:31:LEU:HD23	5:AE:45:PHE:HB2	1.90	0.54
6:AF:28:ARG:HG3	6:AF:28:ARG:HH11	1.72	0.54
8:AH:30:ARG:HB3	8:AH:30:ARG:CZ	2.36	0.54
8:AH:49:GLU:O	8:AH:51:VAL:HG13	2.07	0.54
12:AL:28:LYS:O	12:AL:30:ALA:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:60:LEU:N	12:AL:60:LEU:HD22	2.22	0.54
25:AZ:221:PHE:CE1	25:AZ:247:VAL:HG22	2.43	0.54
25:AZ:249:VAL:HG13	25:AZ:268:THR:HA	1.89	0.54
28:B2:10:LEU:HD11	36:BA:77:C:H5''	1.89	0.54
28:B2:21:LEU:HB3	28:B2:64:LEU:HG	1.89	0.54
28:B2:21:LEU:O	28:B2:24:LEU:HB3	2.08	0.54
31:B5:52:TYR:CD1	31:B5:52:TYR:O	2.60	0.54
35:B9:13:LYS:O	35:B9:27:CYS:HA	2.07	0.54
35:B9:36:GLN:HG2	36:BA:1124:C:O2'	2.07	0.54
36:BA:483:A:H1'	57:BY:60:PHE:HE1	1.66	0.54
36:BA:566:U:O4	54:BV:78:LYS:HE2	2.08	0.54
36:BA:594:U:H3	36:BA:663:G:H1	1.56	0.54
36:BA:753:C:O2'	36:BA:754:C:H5'	2.07	0.54
36:BA:826:U:H2'	36:BA:828:U:O4'	2.08	0.54
36:BA:1183:G:H2'	36:BA:1184:G:C8	2.42	0.54
36:BA:1355:G:O6	36:BA:1377:G:N2	2.40	0.54
36:BA:1674:G:H1'	36:BA:1676:A:H62	1.72	0.54
36:BA:2569:G:O2'	36:BA:2570:G:H5'	2.07	0.54
36:BA:2721:A:H2'	36:BA:2722:G:O4'	2.08	0.54
38:BC:81:GLU:C	38:BC:82:LYS:HE2	2.28	0.54
39:BD:142:VAL:HG22	39:BD:143:HIS:N	2.22	0.54
41:BF:157:VAL:HG22	41:BF:194:MET:HA	1.89	0.54
41:BF:158:THR:HB	41:BF:195:ASP:HB3	1.87	0.54
46:BN:4:TYR:N	46:BN:4:TYR:CD1	2.74	0.54
47:BO:47:ILE:CG2	47:BO:48:PRO:HD2	2.33	0.54
47:BO:117:LEU:O	47:BO:118:ALA:C	2.46	0.54
49:BQ:109:VAL:CG1	49:BQ:110:THR:N	2.70	0.54
49:BQ:113:GLN:O	49:BQ:117:ALA:N	2.40	0.54
51:BS:67:ARG:HB2	51:BS:71:ARG:HH11	1.73	0.54
52:BT:103:ARG:O	52:BT:105:LEU:N	2.40	0.54
54:BV:52:VAL:HG13	54:BV:55:ALA:CB	2.31	0.54
57:BY:41:GLY:O	57:BY:42:VAL:O	2.24	0.54
2:CB:75:LYS:HA	2:CB:78:GLN:HG3	1.89	0.54
3:CC:11:ARG:HG2	3:CC:11:ARG:HH11	1.72	0.54
5:CE:105:VAL:N	5:CE:106:PRO:CD	2.70	0.54
8:CH:36:LEU:C	8:CH:38:ILE:H	2.11	0.54
8:CH:49:GLU:O	8:CH:51:VAL:HG13	2.07	0.54
10:CJ:40:LEU:HG	10:CJ:69:ASN:HB3	1.89	0.54
18:CR:55:ARG:HG3	18:CR:55:ARG:HH11	1.72	0.54
20:CT:12:ALA:O	20:CT:15:ARG:HB2	2.08	0.54
22:CV:7:A:N6	22:CV:49:C:N4	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:5:CYS:HB3	27:D1:9:GLY:H	1.73	0.54
27:D1:86:SER:O	27:D1:90:ILE:HG12	2.08	0.54
33:D7:25:PRO:N	33:D7:28:ARG:HH21	2.05	0.54
35:D9:35:ARG:O	35:D9:35:ARG:HG2	2.07	0.54
36:DA:41:C:H2'	36:DA:42:G:O4'	2.07	0.54
36:DA:245:G:H22	36:DA:254:G:H1'	1.71	0.54
36:DA:746:A:O2'	36:DA:2611:U:O2'	2.24	0.54
36:DA:826:U:H2'	36:DA:828:U:O4'	2.07	0.54
36:DA:873:G:O2'	36:DA:874:G:H5'	2.08	0.54
36:DA:1103:A:H5'	36:DA:1104:C:OP2	2.07	0.54
36:DA:1201:C:N3	36:DA:1245:G:C2	2.75	0.54
36:DA:1453:U:H5'	50:DR:63:ARG:NE	2.22	0.54
36:DA:1473:G:O6	36:DA:1519:G:N2	2.40	0.54
36:DA:1517:G:C6	36:DA:1518:U:C4	2.96	0.54
36:DA:1791:A:O3'	39:DD:206:LEU:HB2	2.07	0.54
36:DA:2015:A:O2'	36:DA:2016:U:H5'	2.08	0.54
36:DA:2149:G:H2'	36:DA:2150:U:O4'	2.08	0.54
36:DA:2787:C:H1'	40:DE:61:ARG:HG3	1.89	0.54
36:DA:2893:G:C5'	36:DA:2894:G:H5'	2.35	0.54
38:DC:74:VAL:HG11	38:DC:153:ILE:HG23	1.89	0.54
39:DD:75:ILE:HG22	39:DD:97:TYR:HD2	1.72	0.54
40:DE:52:LEU:HD12	40:DE:53:PRO:HD2	1.89	0.54
41:DF:40:GLN:HE22	41:DF:184:TYR:HB3	1.73	0.54
41:DF:110:LEU:CD1	41:DF:111:ALA:N	2.71	0.54
42:DG:11:TYR:O	42:DG:15:VAL:HG23	2.08	0.54
42:DG:28:VAL:HG12	42:DG:28:VAL:O	2.07	0.54
43:DH:12:PRO:HA	43:DH:48:GLY:HA2	1.90	0.54
43:DH:167:GLU:HG2	43:DH:168:PRO:HD2	1.89	0.54
48:DP:106:LEU:HD11	48:DP:112:LEU:HD23	1.90	0.54
53:DU:92:ARG:O	53:DU:93:LYS:C	2.46	0.54
54:DV:26:ASP:O	54:DV:27:ALA:HB2	2.08	0.54
57:DY:98:VAL:O	57:DY:98:VAL:HG12	2.06	0.54
1:AA:37:U:O2'	1:AA:500:G:H4'	2.08	0.54
1:AA:773:G:H1	1:AA:806:C:H42	1.55	0.54
1:AA:859:A:H2	8:AH:19:VAL:HG11	1.72	0.54
1:AA:1015:A:H1'	1:AA:1218:C:HO2'	1.73	0.54
1:AA:1089:G:O2'	1:AA:1090:U:H5'	2.08	0.54
1:AA:1434:A:H3'	1:AA:1435:G:H8	1.73	0.54
3:AC:95:THR:O	3:AC:97:LYS:N	2.40	0.54
4:AD:138:TYR:HD2	4:AD:138:TYR:C	2.10	0.54
7:AG:69:VAL:HG23	7:AG:135:VAL:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:69:THR:O	18:AR:70:ILE:C	2.46	0.54
19:AS:66:MET:HG3	19:AS:66:MET:O	2.06	0.54
22:AW:38:A:C3'	22:AW:39:U:H5''	2.34	0.54
24:AY:37:YG:O2'	24:AY:38:A:H5'	2.07	0.54
25:AZ:143:ASP:OD1	25:AZ:146:LEU:HB2	2.07	0.54
25:AZ:356:PRO:C	25:AZ:359:VAL:CG2	2.67	0.54
26:B0:39:ARG:NH1	26:B0:56:ASP:OD2	2.40	0.54
27:B1:23:LYS:O	27:B1:32:LYS:HG3	2.08	0.54
27:B1:26:ARG:HG3	27:B1:27:GLU:N	2.22	0.54
28:B2:53:LEU:HD23	28:B2:57:ILE:HD11	1.90	0.54
30:B4:9:LEU:CD1	30:B4:10:VAL:H	2.19	0.54
33:B7:24:THR:C	33:B7:26:GLY:H	2.11	0.54
34:B8:57:ARG:C	34:B8:59:LYS:H	2.09	0.54
34:B8:61:LEU:HD12	34:B8:62:LEU:N	2.23	0.54
35:B9:7:VAL:CG2	35:B9:36:GLN:HB2	2.38	0.54
36:BA:271(P):C:H2'	36:BA:271(Q):G:C5'	2.29	0.54
36:BA:378:C:H2'	36:BA:379:G:H8	1.71	0.54
36:BA:416:C:H2'	36:BA:417:C:H5'	1.90	0.54
36:BA:473:G:O2'	36:BA:474:G:H5'	2.07	0.54
36:BA:1087:G:C2'	36:BA:1088:A:H4'	2.32	0.54
36:BA:1833:U:O2	36:BA:1969:A:H2	1.90	0.54
36:BA:1856:G:C2'	36:BA:1857:G:H5'	2.38	0.54
36:BA:2729:G:H21	40:BE:167:VAL:HG23	1.71	0.54
40:BE:29:GLY:HA2	40:BE:180:ASN:CG	2.27	0.54
43:BH:88:LEU:N	43:BH:88:LEU:HD22	2.22	0.54
46:BN:33:LEU:O	46:BN:52:VAL:HG21	2.07	0.54
47:BO:52:VAL:C	47:BO:53:LYS:HD2	2.27	0.54
49:BQ:43:THR:CB	49:BQ:45:GLN:NE2	2.69	0.54
51:BS:61:ASN:O	51:BS:65:VAL:HG21	2.08	0.54
52:BT:13:ARG:HH22	52:BT:15:VAL:HG11	1.72	0.54
58:BZ:58:VAL:HG12	58:BZ:59:LEU:N	2.22	0.54
58:BZ:163:LEU:HD11	58:BZ:165:VAL:CG2	2.37	0.54
1:CA:132:C:N3	1:CA:231:G:C2	2.75	0.54
1:CA:202:U:O2'	1:CA:203:U:P	2.66	0.54
1:CA:577:G:H1'	1:CA:816:A:N3	2.22	0.54
1:CA:722:A:O2'	1:CA:723:U:H3'	2.07	0.54
1:CA:960:U:O2'	1:CA:1223:C:H5'	2.08	0.54
1:CA:1469:G:N2	1:CA:1470:G:C4	2.75	0.54
2:CB:14:GLY:C	2:CB:15:VAL:HG22	2.28	0.54
7:CG:51:GLN:HA	7:CG:51:GLN:OE1	2.08	0.54
16:CP:12:LYS:C	16:CP:14:ASN:H	2.10	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:45:GLN:CB	20:CT:91:LEU:HD13	2.38	0.54
27:D1:11:ARG:NH2	36:DA:1365:A:O2'	2.39	0.54
28:D2:52:ASP:O	28:D2:56:GLN:HG2	2.08	0.54
29:D3:31:LEU:HD23	29:D3:32:GLN:H	1.72	0.54
30:D4:9:LEU:CD1	30:D4:10:VAL:H	2.20	0.54
36:DA:108:U:H2'	36:DA:109:G:H8	1.73	0.54
36:DA:782:A:H4'	36:DA:783:A:O5'	2.07	0.54
36:DA:880:G:H2'	36:DA:881:G:H8	1.71	0.54
36:DA:1467:C:H42	36:DA:1525:G:H1	1.56	0.54
36:DA:1680:U:H2'	36:DA:1681:G:O4'	2.07	0.54
36:DA:1775:U:O2'	36:DA:1776:G:H5'	2.07	0.54
36:DA:2533:A:H2'	36:DA:2534:A:H5'	1.90	0.54
36:DA:2596:U:H3'	36:DA:2597:G:C8	2.42	0.54
36:DA:2837:G:H8	36:DA:2837:G:O5'	1.91	0.54
37:DB:3:C:H42	37:DB:118:G:H1	1.54	0.54
37:DB:91:C:C5'	49:DQ:17:LEU:O	2.52	0.54
38:DC:96:GLY:CA	38:DC:99:ILE:HG12	2.32	0.54
39:DD:149:PRO:HG3	39:DD:186:HIS:HD2	1.72	0.54
43:DH:76:VAL:C	43:DH:78:GLY:H	2.10	0.54
43:DH:137:ASP:OD1	43:DH:138:LYS:N	2.40	0.54
49:DQ:136:ALA:C	49:DQ:138:ASP:H	2.11	0.54
50:DR:21:TYR:HB3	50:DR:47:PHE:CD2	2.43	0.54
52:DT:134:GLU:O	52:DT:135:ALA:HB3	2.08	0.54
58:DZ:52:SER:O	58:DZ:71:VAL:HG23	2.08	0.54
1:AA:176:C:H2'	1:AA:177:C:H6	1.73	0.54
1:AA:364:A:H2'	1:AA:365:U:C2	2.43	0.54
1:AA:797:C:O2'	1:AA:798:G:H5'	2.08	0.54
1:AA:936:C:H2'	1:AA:937:A:C8	2.39	0.54
1:AA:963:G:H1	1:AA:972:C:H42	1.56	0.54
4:AD:9:CYS:SG	4:AD:32:ALA:CB	2.96	0.54
7:AG:31:MET:HB2	7:AG:39:ALA:HB1	1.90	0.54
10:AJ:61:GLU:OE2	14:AN:45:ARG:HD2	2.08	0.54
13:AM:85:GLY:O	13:AM:86:CYS:C	2.46	0.54
24:AY:1:G:H1'	25:AZ:300:ARG:HH21	1.65	0.54
25:AZ:226:GLU:HG3	25:AZ:240:GLY:CA	2.37	0.54
25:AZ:343:TYR:CE2	25:AZ:348:ASP:HB2	2.42	0.54
28:B2:62:THR:O	28:B2:66:GLU:N	2.38	0.54
31:B5:5:PRO:CA	36:BA:2056:G:H22	2.19	0.54
35:B9:19:ARG:NH1	36:BA:2755:C:C4	2.76	0.54
36:BA:48:G:N2	36:BA:177:G:H21	2.06	0.54
36:BA:426:C:O2'	36:BA:427:U:H5'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:464:U:C2'	36:BA:465:G:H5'	2.37	0.54
36:BA:724:U:O2'	36:BA:725:G:H5'	2.08	0.54
36:BA:784:A:C6	39:BD:229:VAL:HG11	2.42	0.54
36:BA:1199:U:H1'	53:BU:4:ALA:HB2	1.88	0.54
36:BA:1252:G:O4'	53:BU:33:ARG:HD3	2.08	0.54
36:BA:2094:G:N2	36:BA:2196:C:H1'	2.22	0.54
36:BA:2838:G:H4'	50:BR:45:ARG:HD3	1.90	0.54
41:BF:131:GLY:HA3	41:BF:139:PHE:HA	1.89	0.54
42:BG:107:LEU:HD11	42:BG:178:PHE:CE1	2.43	0.54
47:BO:50:GLY:C	47:BO:52:VAL:H	2.11	0.54
47:BO:72:PRO:O	47:BO:74:GLY:N	2.41	0.54
48:BP:106:LEU:HD11	48:BP:112:LEU:HD23	1.89	0.54
48:BP:113:LYS:HA	48:BP:129:ALA:O	2.08	0.54
50:BR:61:HIS:HE1	50:BR:65:LEU:HD22	1.72	0.54
52:BT:50:ILE:HA	52:BT:99:LEU:CD1	2.35	0.54
57:BY:10:GLY:HA2	57:BY:27:VAL:HG13	1.88	0.54
1:CA:176:C:H2'	1:CA:177:C:H6	1.73	0.54
1:CA:192:U:O2'	20:CT:103:GLY:HA2	2.08	0.54
1:CA:774:G:O2'	1:CA:775:G:H5'	2.08	0.54
1:CA:1068:G:N7	1:CA:1108:G:N2	2.56	0.54
1:CA:1215:G:H2'	1:CA:1215:G:N3	2.22	0.54
1:CA:1217:C:H2'	1:CA:1218:C:H6	1.73	0.54
1:CA:1374:A:O2'	1:CA:1375:A:H5'	2.07	0.54
2:CB:162:ILE:HG21	2:CB:184:VAL:HG22	1.89	0.54
2:CB:200:ILE:HG22	2:CB:201:ILE:N	2.22	0.54
4:CD:128:VAL:HG12	4:CD:129:ASN:N	2.22	0.54
4:CD:157:LEU:O	4:CD:161:ASN:ND2	2.40	0.54
9:CI:5:TYR:CG	9:CI:6:GLY:N	2.76	0.54
10:CJ:35:SER:OG	10:CJ:73:ASP:HB2	2.07	0.54
12:CL:84:LEU:O	12:CL:101:VAL:HG23	2.08	0.54
13:CM:85:GLY:O	13:CM:86:CYS:C	2.46	0.54
18:CR:38:GLU:OE2	18:CR:38:GLU:HA	2.07	0.54
20:CT:14:LYS:HA	20:CT:17:ARG:NH2	2.22	0.54
20:CT:33:ILE:CG2	20:CT:63:ILE:HG12	2.37	0.54
26:D0:69:PHE:CD2	26:D0:79:VAL:HG22	2.42	0.54
36:DA:327:G:C2	36:DA:336:C:N3	2.76	0.54
36:DA:360:G:H2'	36:DA:361:G:O4'	2.08	0.54
36:DA:484:C:H2'	36:DA:485:C:C6	2.43	0.54
36:DA:827:U:H5'	36:DA:828:U:O5'	2.07	0.54
36:DA:1010:A:H1'	36:DA:1153:C:C1'	2.34	0.54
36:DA:1087:G:N2	36:DA:1103:A:H61	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1130:U:C2	36:DA:2025:C:H5''	2.42	0.54
36:DA:1657:C:OP1	40:DE:136:ARG:HB2	2.07	0.54
36:DA:1720:U:H2'	36:DA:1721:G:H5''	1.89	0.54
36:DA:1832:C:N4	36:DA:1833:U:C4	2.75	0.54
36:DA:1902:C:O2'	39:DD:244:ARG:CB	2.56	0.54
36:DA:2089:U:H3	36:DA:2230:G:H1	1.56	0.54
36:DA:2253:G:O2'	36:DA:2254:C:H5'	2.08	0.54
36:DA:2259:G:C2	36:DA:2282:G:N1	2.75	0.54
36:DA:2312:U:H2'	36:DA:2313:C:H5''	1.90	0.54
36:DA:2488:A:H2'	36:DA:2489:G:H8	1.73	0.54
36:DA:2504:U:O5'	36:DA:2504:U:H6	1.91	0.54
36:DA:2683:C:N4	36:DA:2727:G:H21	2.06	0.54
40:DE:93:VAL:HG12	40:DE:175:VAL:CG2	2.38	0.54
40:DE:116:VAL:HG21	40:DE:122:PHE:CD2	2.42	0.54
41:DF:163:VAL:O	41:DF:166:ALA:HB3	2.08	0.54
44:DJ:45:UNK:O	44:DJ:49:UNK:HA	2.07	0.54
51:DS:98:VAL:C	51:DS:100:ALA:N	2.60	0.54
52:DT:129:ARG:HD2	52:DT:131:ALA:H	1.73	0.54
53:DU:55:ARG:HG2	53:DU:58:ARG:CZ	2.37	0.54
54:DV:15:GLU:O	54:DV:96:ILE:HB	2.07	0.54
57:DY:7:VAL:CB	57:DY:8:LYS:HD2	2.30	0.54
1:AA:353:A:H8	1:AA:353:A:H5'	1.73	0.54
1:AA:376:G:H5''	16:AP:5:ARG:HB2	1.88	0.54
1:AA:564:C:H2'	1:AA:565:U:O4'	2.08	0.54
1:AA:571:U:O2	1:AA:918:A:H5'	2.07	0.54
1:AA:1360:A:C2'	1:AA:1361:G:H5'	2.38	0.54
2:AB:35:GLU:HA	2:AB:39:ILE:O	2.08	0.54
3:AC:70:VAL:CG1	3:AC:71:ALA:N	2.70	0.54
3:AC:175:LEU:HD21	3:AC:201:TYR:CE2	2.43	0.54
11:AK:23:ALA:CB	11:AK:28:THR:HG23	2.37	0.54
12:AL:115:LYS:O	12:AL:117:ARG:N	2.40	0.54
13:AM:56:LEU:C	13:AM:56:LEU:HD13	2.28	0.54
22:AV:40:C:H2'	22:AV:41:C:C6	2.43	0.54
25:AZ:31:LEU:HB3	25:AZ:70:TYR:CE2	2.42	0.54
26:B0:20:ARG:H	26:B0:20:ARG:CD	2.19	0.54
27:B1:16:ASN:ND2	27:B1:37:ILE:HG22	2.23	0.54
27:B1:40:ARG:NH2	36:BA:2232:U:OP2	2.41	0.54
28:B2:4:SER:CB	28:B2:7:ARG:HD2	2.38	0.54
29:B3:11:SER:HB3	36:BA:988:A:O5'	2.08	0.54
30:B4:35:VAL:HG12	42:BG:112:PRO:HG3	1.90	0.54
32:B6:29:ASN:O	32:B6:30:THR:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:13:A:H2	36:BA:14:A:H62	1.56	0.54
36:BA:90:U:H2'	36:BA:90:U:O2	2.07	0.54
36:BA:500:G:H2'	36:BA:502:A:OP2	2.08	0.54
36:BA:744:G:H2'	36:BA:745:G:O4'	2.08	0.54
36:BA:875:G:H2'	36:BA:876:C:O4'	2.08	0.54
36:BA:1255:U:C5	41:BF:73:ALA:HA	2.43	0.54
36:BA:1308:A:N1	36:BA:1611:C:H1'	2.23	0.54
36:BA:1323:U:H2'	36:BA:1324:G:H5'	1.90	0.54
36:BA:1539:G:H2'	36:BA:1540:U:O4'	2.07	0.54
36:BA:1744:C:C2'	36:BA:1745:C:H5'	2.38	0.54
36:BA:1774:C:H4'	36:BA:1979:C:O2	2.08	0.54
36:BA:1796:U:OP1	39:BD:276:LYS:HE3	2.08	0.54
36:BA:1902:C:C1'	39:BD:244:ARG:HG3	2.38	0.54
36:BA:2154:G:H8	36:BA:2154:G:O5'	1.91	0.54
36:BA:2873:A:N3	50:BR:6:SER:OG	2.35	0.54
40:BE:48:GLN:NE2	40:BE:78:LEU:HD13	2.23	0.54
41:BF:40:GLN:NE2	41:BF:182:ASN:HB2	2.22	0.54
46:BN:62:VAL:HG23	46:BN:66:LYS:HD2	1.88	0.54
47:BO:88:ASN:ND2	47:BO:92:GLU:HB3	2.23	0.54
48:BP:36:LYS:HD2	48:BP:41:ARG:HB3	1.89	0.54
48:BP:40:SER:C	48:BP:41:ARG:HD2	2.28	0.54
49:BQ:18:LYS:HB3	49:BQ:98:LYS:HZ1	1.73	0.54
51:BS:61:ASN:OD1	51:BS:62:LYS:N	2.41	0.54
52:BT:101:PHE:O	52:BT:103:ARG:N	2.41	0.54
53:BU:94:ASN:O	53:BU:96:ALA:N	2.39	0.54
53:BU:99:ALA:HA	53:BU:106:PHE:CG	2.43	0.54
57:BY:17:SER:HB2	57:BY:71:LYS:HD2	1.90	0.54
58:BZ:150:LEU:O	58:BZ:150:LEU:HD23	2.07	0.54
1:CA:58:C:H1'	1:CA:388:G:N7	2.23	0.54
1:CA:370:C:H2'	1:CA:371:G:H8	1.73	0.54
3:CC:5:ILE:HD13	3:CC:5:ILE:N	2.23	0.54
4:CD:108:LEU:HD12	4:CD:165:MET:HE1	1.90	0.54
4:CD:133:VAL:HG12	4:CD:135:LEU:H	1.71	0.54
5:CE:12:LEU:HD22	5:CE:12:LEU:C	2.28	0.54
8:CH:86:ILE:HG13	8:CH:133:LEU:HD23	1.90	0.54
10:CJ:47:PHE:CZ	14:CN:37:PHE:HE2	2.26	0.54
13:CM:35:GLU:HG3	13:CM:36:LYS:N	2.23	0.54
13:CM:45:VAL:O	13:CM:48:LEU:HG	2.08	0.54
19:CS:6:LYS:H	19:CS:6:LYS:CD	2.20	0.54
25:CZ:116:THR:HG22	25:CZ:120:ILE:HD12	1.89	0.54
25:CZ:118:GLU:O	25:CZ:120:ILE:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:D6:27:LYS:HG3	32:D6:27:LYS:O	2.08	0.54
35:D9:12:ASP:O	35:D9:14:CYS:N	2.41	0.54
36:DA:21:A:H2'	36:DA:22:C:H6	1.73	0.54
36:DA:718:A:H2'	36:DA:719:C:C5'	2.38	0.54
36:DA:862:G:H3'	36:DA:863:A:C8	2.43	0.54
36:DA:1511:C:H2'	36:DA:1512:U:H6	1.73	0.54
36:DA:1777:U:O2'	36:DA:1778:U:H5'	2.08	0.54
36:DA:1820:U:C2	39:DD:202:LYS:HB3	2.42	0.54
36:DA:2243:U:O2	36:DA:2434:A:C2	2.61	0.54
36:DA:2252:G:C2'	36:DA:2253:G:H5'	2.38	0.54
36:DA:2283:C:C5	36:DA:2389:G:H2'	2.43	0.54
36:DA:2341:G:C2	36:DA:2342:C:N3	2.76	0.54
36:DA:2846:G:H2'	36:DA:2847:U:O4'	2.06	0.54
36:DA:2864:G:OP1	52:DT:119:LYS:HD2	2.08	0.54
39:DD:3:VAL:HG12	39:DD:17:THR:HB	1.90	0.54
39:DD:275:LYS:O	39:DD:276:LYS:HB2	2.08	0.54
41:DF:42:ALA:C	41:DF:44:ARG:H	2.11	0.54
41:DF:130:ALA:HB3	41:DF:142:TRP:HD1	1.71	0.54
42:DG:86:MET:O	42:DG:86:MET:HG2	2.06	0.54
43:DH:58:GLU:O	43:DH:62:LYS:HB2	2.08	0.54
46:DN:15:LEU:O	46:DN:136:GLU:HA	2.07	0.54
46:DN:134:ARG:N	46:DN:135:PRO:HD3	2.22	0.54
51:DS:78:LEU:HD11	51:DS:103:GLU:CB	2.38	0.54
52:DT:83:ILE:O	52:DT:84:GLN:O	2.25	0.54
53:DU:94:ASN:O	53:DU:96:ALA:N	2.38	0.54
1:AA:606:G:H21	1:AA:631:G:H2'	1.72	0.54
1:AA:635:G:O2'	1:AA:636:U:H5'	2.08	0.54
1:AA:734:G:C2	1:AA:735:C:C2	2.96	0.54
1:AA:879:C:O2'	1:AA:880:C:H5'	2.07	0.54
1:AA:1226:C:H6	13:AM:103:THR:OG1	1.91	0.54
1:AA:1255:G:H2'	1:AA:1255:G:N3	2.22	0.54
2:AB:11:LEU:O	2:AB:14:GLY:N	2.40	0.54
2:AB:36:ARG:O	2:AB:38:GLY:N	2.39	0.54
2:AB:167:PRO:HG2	2:AB:192:SER:CB	2.38	0.54
3:AC:165:THR:O	3:AC:165:THR:CG2	2.56	0.54
4:AD:173:TRP:O	4:AD:174:LEU:HD23	2.08	0.54
10:AJ:16:LEU:HD13	10:AJ:16:LEU:C	2.27	0.54
13:AM:52:GLU:CA	13:AM:55:ARG:HB3	2.35	0.54
15:AO:4:THR:O	15:AO:6:GLU:N	2.34	0.54
35:B9:12:ASP:OD2	35:B9:13:LYS:HG3	2.07	0.54
36:BA:145:G:H3'	36:BA:146:G:H5''	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:381:G:C2	36:BA:394:A:C2	2.96	0.54
36:BA:481:G:H4'	36:BA:481:G:OP1	2.07	0.54
36:BA:674:G:H1'	41:BF:74:ARG:HD3	1.89	0.54
36:BA:718:A:H2'	36:BA:719:C:C5'	2.38	0.54
36:BA:784:A:HO2'	36:BA:785:G:H8	1.56	0.54
36:BA:1265:A:H8	36:BA:1265:A:OP1	1.91	0.54
36:BA:1473:G:N3	36:BA:1474:C:H1'	2.23	0.54
36:BA:1601:G:C2'	36:BA:1602:U:H5'	2.38	0.54
36:BA:1625:C:O2'	36:BA:1626:G:H5'	2.08	0.54
36:BA:2297:C:C2'	36:BA:2298:A:H5'	2.38	0.54
36:BA:2312:U:H2'	36:BA:2313:C:H5'	1.88	0.54
36:BA:2469:A:H1'	36:BA:2482:G:C6	2.42	0.54
36:BA:2488:A:H2'	36:BA:2489:G:H8	1.73	0.54
36:BA:2677:G:O2'	36:BA:2678:C:H5'	2.07	0.54
37:BB:17:C:H2'	37:BB:18:G:O4'	2.07	0.54
38:BC:96:GLY:CA	38:BC:99:ILE:HG12	2.32	0.54
41:BF:40:GLN:HE22	41:BF:184:TYR:HB3	1.72	0.54
41:BF:159:GLY:N	41:BF:178:PRO:HD3	2.23	0.54
42:BG:16:ARG:C	42:BG:18:GLU:N	2.61	0.54
53:BU:96:ALA:C	53:BU:98:LEU:H	2.10	0.54
58:BZ:51:ALA:O	58:BZ:53:ILE:N	2.41	0.54
1:CA:110:C:O2'	1:CA:111:G:H5'	2.08	0.54
1:CA:254:G:H2'	1:CA:255:G:H8	1.72	0.54
1:CA:686:U:O4	1:CA:703:G:H1'	2.07	0.54
1:CA:741:G:O2'	1:CA:742:G:H5'	2.07	0.54
1:CA:781:A:C5	1:CA:802:A:C2	2.95	0.54
1:CA:972:C:C4'	10:CJ:57:LYS:HG3	2.37	0.54
1:CA:1047:G:C5'	14:CN:4:LYS:HE2	2.27	0.54
1:CA:1054:C:N4	24:CY:34:G:C1'	2.67	0.54
1:CA:1170:A:C2'	1:CA:1171:G:H5'	2.38	0.54
1:CA:1235:U:O3'	21:CU:3:LYS:HB2	2.07	0.54
2:CB:8:LYS:HZ1	2:CB:217:ARG:NH1	2.05	0.54
2:CB:111:ARG:HE	2:CB:145:LEU:HD21	1.73	0.54
5:CE:31:LEU:HD23	5:CE:45:PHE:HB2	1.90	0.54
6:CF:30:LEU:O	6:CF:35:ALA:HB3	2.08	0.54
8:CH:127:LEU:HD12	8:CH:129:VAL:CG1	2.38	0.54
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.23	0.54
10:CJ:61:GLU:HG3	14:CN:58:LYS:CE	2.34	0.54
11:CK:125:PHE:C	11:CK:127:LYS:H	2.10	0.54
20:CT:23:ARG:HG2	20:CT:23:ARG:HH11	1.73	0.54
26:D0:72:ARG:O	26:D0:74:ARG:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:D6:33:LYS:O	32:D6:34:LEU:CB	2.56	0.54
34:D8:59:LYS:NZ	48:DP:50:ARG:HB3	2.23	0.54
36:DA:133:C:N3	36:DA:146:G:O6	2.41	0.54
36:DA:271(B):C:H42	36:DA:271(W):G:H21	1.55	0.54
36:DA:598:G:H2'	36:DA:599:G:O4'	2.08	0.54
36:DA:654(N):G:O2'	36:DA:654(O):G:H5'	2.07	0.54
36:DA:1020:A:C2	36:DA:1141:U:H1'	2.43	0.54
36:DA:1192:G:H8	36:DA:1192:G:O5'	1.90	0.54
36:DA:1288:U:C2	36:DA:1327:C:C2	2.96	0.54
36:DA:1431:U:H2'	36:DA:1432:C:H5'	1.90	0.54
36:DA:1498:C:H3'	36:DA:1499:C:H5''	1.88	0.54
36:DA:1722:A:O2'	36:DA:1739:U:H5'	2.07	0.54
37:DB:70:C:H2'	37:DB:71:C:H6	1.72	0.54
40:DE:120:TRP:CB	40:DE:155:LYS:HE3	2.37	0.54
41:DF:159:GLY:N	41:DF:178:PRO:HD3	2.23	0.54
43:DH:85:LYS:HE2	43:DH:86:GLU:N	2.23	0.54
43:DH:88:LEU:N	43:DH:88:LEU:HD22	2.22	0.54
47:DO:91:LEU:HD13	47:DO:111:PHE:HE1	1.73	0.54
52:DT:58:ASN:O	52:DT:60:THR:HG23	2.08	0.54
1:AA:486:U:O2'	1:AA:487:A:H5'	2.08	0.54
1:AA:899:C:H2'	1:AA:900:A:O4'	2.07	0.54
1:AA:977:A:N3	1:AA:977:A:C2'	2.70	0.54
1:AA:1155:G:H2'	1:AA:1156:G:C8	2.43	0.54
1:AA:1187:G:O2'	9:AI:111:ARG:NH1	2.41	0.54
1:AA:1324:A:C4'	1:AA:1362:C:H4'	2.35	0.54
1:AA:1525:G:H2'	1:AA:1526:G:H8	1.72	0.54
2:AB:130:ARG:HH21	2:AB:131:PRO:CD	2.21	0.54
2:AB:130:ARG:NH1	2:AB:134:GLU:HG3	2.22	0.54
3:AC:113:ALA:O	3:AC:114:PRO:C	2.46	0.54
5:AE:48:ALA:C	5:AE:50:GLU:H	2.10	0.54
8:AH:11:THR:CG2	8:AH:14:ARG:HH12	2.17	0.54
8:AH:20:TYR:HD1	8:AH:65:TYR:CD2	2.26	0.54
12:AL:105:TYR:N	12:AL:105:TYR:HD2	2.05	0.54
13:AM:53:VAL:O	13:AM:56:LEU:HB3	2.08	0.54
15:AO:3:ILE:HG23	15:AO:38:ARG:NH2	2.22	0.54
16:AP:13:HIS:O	16:AP:15:PRO:HD3	2.08	0.54
19:AS:18:LYS:HG3	19:AS:18:LYS:O	2.08	0.54
19:AS:28:LYS:C	19:AS:29:ARG:HG3	2.28	0.54
24:AY:9:A:H2	24:AY:45:G:C6	2.25	0.54
25:AZ:17:ILE:HD13	25:AZ:102:ALA:HB1	1.89	0.54
25:AZ:116:THR:HG22	25:AZ:120:ILE:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:223:MET:O	25:AZ:223:MET:HG3	2.07	0.54
25:AZ:316:PHE:CE2	25:AZ:400:VAL:HG22	2.42	0.54
36:BA:182:A:C6	36:BA:183:C:C4	2.96	0.54
36:BA:272(B):G:H1	36:BA:366:C:N4	2.06	0.54
36:BA:828:U:H2'	36:BA:829:A:C8	2.43	0.54
36:BA:856:C:H2'	36:BA:857:C:O4'	2.08	0.54
36:BA:1201:C:N3	36:BA:1245:G:C2	2.76	0.54
36:BA:1245:G:H5'	41:BF:34:TRP:HZ2	1.71	0.54
36:BA:1431:U:H2'	36:BA:1432:C:C5'	2.38	0.54
36:BA:1551:C:H2'	36:BA:1552:G:C5'	2.38	0.54
36:BA:1761:C:H3'	36:BA:1762:A:C8	2.43	0.54
36:BA:1826:G:O5'	36:BA:1826:G:H8	1.90	0.54
36:BA:2283:C:C5	36:BA:2389:G:H2'	2.43	0.54
36:BA:2328:A:H2'	36:BA:2329:G:H8	1.73	0.54
36:BA:2414:G:C2	36:BA:2415:G:C8	2.96	0.54
36:BA:2550:G:C2'	36:BA:2551:C:H5'	2.38	0.54
37:BB:57:A:C5	42:BG:29:TRP:CD1	2.95	0.54
38:BC:38:ASP:O	38:BC:177:LYS:HE3	2.07	0.54
38:BC:77:ILE:O	38:BC:78:ALA:O	2.24	0.54
38:BC:122:ALA:O	38:BC:126:LYS:HG2	2.08	0.54
42:BG:63:ILE:CG1	42:BG:64:THR:H	1.94	0.54
43:BH:37:VAL:CG1	43:BH:38:SER:H	2.09	0.54
46:BN:60:ILE:CD1	46:BN:99:LEU:HD23	2.38	0.54
46:BN:65:LYS:O	46:BN:69:GLN:HB2	2.08	0.54
47:BO:111:PHE:CB	47:BO:114:ILE:HD13	2.34	0.54
50:BR:43:GLU:HA	50:BR:43:GLU:OE2	2.06	0.54
51:BS:68:GLN:HA	51:BS:71:ARG:HD3	1.89	0.54
51:BS:77:ALA:O	51:BS:79:ALA:N	2.37	0.54
51:BS:98:VAL:C	51:BS:100:ALA:N	2.61	0.54
52:BT:89:VAL:HG12	52:BT:91:ARG:CG	2.38	0.54
54:BV:26:ASP:O	54:BV:27:ALA:HB2	2.08	0.54
58:BZ:51:ALA:HA	58:BZ:55:HIS:CD2	2.41	0.54
1:CA:412:A:H4'	1:CA:413:G:C8	2.39	0.54
1:CA:781:A:C3'	1:CA:782:A:H5'	2.38	0.54
1:CA:1082:G:H2'	1:CA:1083:U:O4'	2.08	0.54
1:CA:1187:G:O2'	9:CI:111:ARG:NH1	2.41	0.54
1:CA:1195:C:H5''	1:CA:1196:U:OP2	2.07	0.54
1:CA:1255:G:H2'	1:CA:1255:G:N3	2.21	0.54
1:CA:1380:U:O2	7:CG:3:ARG:NH2	2.40	0.54
2:CB:130:ARG:HH21	2:CB:131:PRO:CD	2.21	0.54
4:CD:129:ASN:HD21	4:CD:145:GLU:N	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:103:GLY:H	5:CE:106:PRO:HG3	1.73	0.54
6:CF:37:VAL:CG1	6:CF:38:GLU:N	2.71	0.54
8:CH:20:TYR:HA	8:CH:65:TYR:CE2	2.43	0.54
12:CL:70:ILE:CD1	12:CL:77:LEU:HD12	2.38	0.54
12:CL:86:ARG:CG	12:CL:87:GLY:H	2.13	0.54
13:CM:108:ARG:HD2	13:CM:108:ARG:H	1.70	0.54
16:CP:25:ARG:HG3	16:CP:25:ARG:HH11	1.73	0.54
18:CR:32:ARG:O	18:CR:69:THR:HG21	2.08	0.54
22:CW:52:G:N2	22:CW:53:G:H1'	2.23	0.54
25:CZ:20:VAL:HA	25:CZ:24:LYS:NZ	2.21	0.54
25:CZ:137:LYS:HG2	62:CZ:501:GDP:C5	2.43	0.54
25:CZ:193:ASN:O	25:CZ:195:TRP:N	2.40	0.54
25:CZ:259:ALA:CB	25:CZ:260:PRO:HD2	2.28	0.54
25:CZ:325:LYS:HB2	25:CZ:331:HIS:HA	1.89	0.54
30:D4:14:ILE:HG13	30:D4:31:ILE:HB	1.90	0.54
36:DA:320:A:C2	36:DA:323:G:N1	2.75	0.54
36:DA:497:A:H2'	36:DA:498:G:H8	1.73	0.54
36:DA:607:U:OP1	41:DF:102:PRO:HA	2.09	0.54
36:DA:777:A:H2'	36:DA:778:G:H8	1.71	0.54
36:DA:1192:G:C6	48:DP:29:LYS:NZ	2.76	0.54
36:DA:1637:A:H2'	36:DA:1638:C:O4'	2.08	0.54
36:DA:1690:A:H2'	36:DA:1691:C:C5'	2.36	0.54
36:DA:1993:U:H5''	40:DE:128:SER:HB3	1.88	0.54
36:DA:2063:C:O2	36:DA:2450:A:N1	2.41	0.54
36:DA:2101:G:H22	36:DA:2189:U:H3	1.56	0.54
36:DA:2329:G:O2'	36:DA:2330:G:H5'	2.08	0.54
36:DA:2728:U:O2'	40:DE:22:PRO:HG3	2.08	0.54
36:DA:2821:A:H2'	36:DA:2822:G:C8	2.43	0.54
37:DB:8:U:H2'	37:DB:9:G:H8	1.72	0.54
39:DD:70:TRP:CZ3	39:DD:150:LYS:HA	2.42	0.54
40:DE:110:GLY:O	50:DR:2:ARG:HG2	2.08	0.54
41:DF:10:PRO:HG2	41:DF:11:VAL:H	1.72	0.54
42:DG:163:ALA:CB	42:DG:169:ALA:HB2	2.35	0.54
43:DH:64:LEU:O	43:DH:67:LEU:HB3	2.08	0.54
43:DH:68:THR:HA	43:DH:71:LEU:CB	2.37	0.54
46:DN:16:ILE:CD1	46:DN:139:GLU:N	2.71	0.54
46:DN:133:GLN:CG	46:DN:134:ARG:H	2.16	0.54
50:DR:59:ASP:O	50:DR:61:HIS:N	2.41	0.54
52:DT:10:VAL:C	52:DT:12:SER:H	2.10	0.54
52:DT:89:VAL:CB	52:DT:91:ARG:HE	2.21	0.54
54:DV:40:LEU:HD13	54:DV:46:VAL:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:276:G:O2'	1:AA:277:C:H5'	2.08	0.53
1:AA:444:C:H2'	1:AA:445:G:C8	2.43	0.53
1:AA:647:C:O2'	1:AA:648:A:H5'	2.09	0.53
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.43	0.53
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.43	0.53
3:AC:13:GLY:O	3:AC:14:ILE:HG22	2.08	0.53
3:AC:18:TRP:N	3:AC:18:TRP:HE3	2.06	0.53
7:AG:119:ARG:O	7:AG:120:ILE:C	2.45	0.53
8:AH:37:ARG:O	8:AH:41:ARG:HB2	2.07	0.53
9:AI:10:ARG:HG3	9:AI:75:ASP:CB	2.36	0.53
11:AK:120:ARG:NH1	11:AK:126:ARG:HD2	2.22	0.53
13:AM:125:ARG:NH1	36:BA:1913:A:C8	2.76	0.53
17:AQ:59:ILE:CG2	17:AQ:71:PHE:HB3	2.39	0.53
19:AS:40:ILE:CG2	19:AS:67:VAL:HA	2.37	0.53
20:AT:36:LEU:HD12	20:AT:59:ALA:HB2	1.87	0.53
20:AT:45:GLN:HB2	20:AT:91:LEU:HD22	1.89	0.53
25:AZ:263:ARG:HH21	25:AZ:297:GLU:CB	2.21	0.53
26:B0:10:THR:HG22	26:B0:12:ASN:H	1.73	0.53
34:B8:3:LYS:HD2	36:BA:242:G:C8	2.43	0.53
36:BA:251:A:H2'	36:BA:252:G:O4'	2.08	0.53
36:BA:485:C:H2'	36:BA:486:C:C6	2.44	0.53
36:BA:500:G:N2	36:BA:502:A:H3'	2.23	0.53
36:BA:814:C:H2'	36:BA:815:C:C6	2.43	0.53
36:BA:847:U:H2'	36:BA:848:G:H5''	1.88	0.53
36:BA:1103:A:H5'	36:BA:1104:C:OP2	2.08	0.53
36:BA:1170:G:H1	36:BA:1179:C:H42	1.56	0.53
39:BD:69:ARG:HD2	39:BD:119:ALA:HB2	1.89	0.53
41:BF:31:HIS:CG	48:BP:13:ASN:HB2	2.43	0.53
41:BF:42:ALA:O	41:BF:44:ARG:N	2.40	0.53
43:BH:26:VAL:HG11	43:BH:76:VAL:HA	1.90	0.53
47:BO:71:ARG:NE	47:BO:105:GLU:OE2	2.40	0.53
50:BR:55:ALA:CB	50:BR:79:LEU:HD11	2.37	0.53
51:BS:88:ASP:CG	51:BS:89:ARG:H	2.11	0.53
52:BT:32:TYR:CG	52:BT:81:PRO:HB3	2.43	0.53
52:BT:51:ARG:NE	52:BT:100:TYR:OH	2.42	0.53
58:BZ:4:ARG:HA	58:BZ:57:ILE:HG23	1.90	0.53
58:BZ:126:VAL:HG12	58:BZ:163:LEU:HD12	1.89	0.53
1:CA:509:A:H5'	4:CD:54:TYR:HD2	1.73	0.53
1:CA:1054:C:C6	1:CA:1196:U:C5	2.96	0.53
1:CA:1367:C:H5'	10:CJ:60:ARG:NH2	2.23	0.53
1:CA:1499:A:H1'	1:CA:1520:G:C5'	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:113:ALA:CB	3:CC:185:GLY:H	2.21	0.53
4:CD:134:ASP:C	4:CD:135:LEU:HD13	2.28	0.53
5:CE:107:ARG:O	5:CE:111:GLU:HG3	2.09	0.53
8:CH:109:ILE:HG23	8:CH:137:VAL:HB	1.89	0.53
9:CI:89:ASN:O	9:CI:92:TYR:HB2	2.07	0.53
13:CM:55:ARG:O	13:CM:58:GLU:HB2	2.07	0.53
19:CS:27:GLU:O	19:CS:28:LYS:O	2.26	0.53
21:CU:2:GLY:N	21:CU:5:ASP:HB2	2.24	0.53
21:CU:5:ASP:O	21:CU:7:ARG:N	2.41	0.53
26:D0:4:LYS:HG3	49:DQ:82:ARG:HD2	1.90	0.53
26:D0:32:ARG:HA	26:D0:64:ASP:HB3	1.89	0.53
27:D1:72:GLU:O	27:D1:73:LEU:HD12	2.07	0.53
30:D4:31:ILE:HG22	30:D4:33:VAL:HG23	1.90	0.53
36:DA:635:C:H2'	36:DA:636:G:C8	2.43	0.53
36:DA:814:C:H2'	36:DA:815:C:C6	2.43	0.53
36:DA:949:C:O2'	36:DA:950:G:H5''	2.08	0.53
36:DA:1259:G:H2'	36:DA:1260:G:H8	1.73	0.53
36:DA:1364:G:H5''	36:DA:1365:A:OP2	2.08	0.53
36:DA:2061:G:H5''	36:DA:2503:A:C6	2.43	0.53
36:DA:2305:A:H61	42:DG:43:LEU:HA	1.72	0.53
36:DA:2399:G:C2	36:DA:2400:G:H1'	2.43	0.53
36:DA:2785:C:H2'	36:DA:2786:U:H6	1.72	0.53
37:DB:40:U:H3'	37:DB:41:U:H5''	1.89	0.53
37:DB:74:U:H2'	37:DB:75:G:C1'	2.37	0.53
39:DD:142:VAL:CG2	39:DD:143:HIS:N	2.71	0.53
42:DG:34:LEU:HD21	42:DG:100:TRP:CZ3	2.43	0.53
46:DN:58:ASP:C	46:DN:60:ILE:N	2.59	0.53
50:DR:9:LYS:O	50:DR:10:LEU:HD23	2.08	0.53
50:DR:107:ASP:O	50:DR:108:GLY:C	2.45	0.53
58:DZ:165:VAL:HG12	58:DZ:166:SER:H	1.71	0.53
1:AA:383:A:OP1	1:AA:454:C:H2'	2.08	0.53
1:AA:599:C:H2'	1:AA:600:C:C6	2.43	0.53
1:AA:790:A:H2'	1:AA:791:G:C8	2.42	0.53
1:AA:828:A:H2'	1:AA:829:G:O4'	2.09	0.53
1:AA:954:G:H4'	13:AM:120:LYS:HD3	1.90	0.53
1:AA:1009:G:H2'	1:AA:1010:G:C8	2.43	0.53
1:AA:1100:C:OP2	2:AB:96:ARG:HG2	2.08	0.53
2:AB:16:HIS:HB3	2:AB:210:SER:CA	2.39	0.53
3:AC:48:TYR:C	3:AC:50:ALA:H	2.11	0.53
4:AD:61:LYS:O	4:AD:64:LEU:N	2.41	0.53
4:AD:62:GLN:HE22	4:AD:65:ARG:HH21	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:61:TYR:O	5:AE:62:ALA:C	2.46	0.53
7:AG:143:ARG:O	7:AG:145:ALA:O	2.27	0.53
8:AH:86:ILE:HG21	8:AH:133:LEU:CD2	2.33	0.53
13:AM:106:ASN:O	13:AM:107:ALA:HB2	2.06	0.53
14:AN:22:THR:O	14:AN:23:ARG:CB	2.56	0.53
16:AP:22:THR:HA	16:AP:33:ILE:HG12	1.89	0.53
19:AS:6:LYS:C	19:AS:7:LYS:HE3	2.28	0.53
19:AS:29:ARG:O	19:AS:31:ILE:HG22	2.08	0.53
20:AT:57:ARG:HH11	20:AT:103:GLY:H	1.53	0.53
26:B0:72:ARG:O	26:B0:74:ARG:N	2.41	0.53
31:B5:40:LYS:HE2	31:B5:46:CYS:SG	2.47	0.53
32:B6:8:LYS:O	32:B6:27:LYS:HA	2.07	0.53
32:B6:42:TRP:HA	32:B6:42:TRP:CE3	2.43	0.53
36:BA:94:C:H3'	36:BA:94(A):G:C8	2.43	0.53
36:BA:364:C:O2	36:BA:364:C:C2'	2.56	0.53
36:BA:515:A:H2'	36:BA:516:C:O4'	2.09	0.53
36:BA:620:G:H4'	36:BA:621:A:OP1	2.07	0.53
36:BA:674:G:H5''	41:BF:76:GLY:N	2.23	0.53
36:BA:716:A:C2'	36:BA:717:G:H5''	2.37	0.53
36:BA:1613:G:H3'	36:BA:1614:A:H5''	1.88	0.53
36:BA:1763:G:H2'	36:BA:1764:G:C5'	2.38	0.53
36:BA:1779:U:C2'	36:BA:1783:A:H62	2.21	0.53
36:BA:1825:A:O3'	39:BD:233:HIS:CE1	2.62	0.53
36:BA:1825:A:H2'	36:BA:1826:G:C8	2.43	0.53
37:BB:14:U:H2'	37:BB:15:A:H2	1.73	0.53
37:BB:66:A:H61	37:BB:108:U:H3'	1.72	0.53
40:BE:4:ILE:HD11	40:BE:28:ALA:O	2.08	0.53
43:BH:26:VAL:HG11	43:BH:75:ALA:O	2.08	0.53
43:BH:61:HIS:C	43:BH:63:SER:N	2.58	0.53
49:BQ:10:ARG:HB2	49:BQ:10:ARG:NH1	2.23	0.53
52:BT:80:SER:CB	52:BT:81:PRO:CD	2.85	0.53
53:BU:83:LEU:H	53:BU:83:LEU:CD1	2.21	0.53
58:BZ:47:VAL:HG11	58:BZ:57:ILE:HG12	1.90	0.53
1:CA:328:C:H4'	1:CA:329:A:C5'	2.38	0.53
1:CA:778:G:H2'	1:CA:779:C:H6	1.73	0.53
1:CA:1155:G:H2'	1:CA:1156:G:H8	1.73	0.53
1:CA:1238:A:OP1	1:CA:1335:C:H1'	2.08	0.53
1:CA:1512:U:O2'	1:CA:1513:A:H5'	2.08	0.53
2:CB:87:ARG:HH21	2:CB:233:SER:CB	2.21	0.53
3:CC:83:ARG:C	3:CC:85:ARG:H	2.10	0.53
5:CE:45:PHE:CE2	5:CE:47:LYS:HD2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:51:ARG:NE	10:CJ:61:GLU:HB2	2.23	0.53
12:CL:104:VAL:HG12	12:CL:105:TYR:CD2	2.43	0.53
13:CM:14:ARG:HG3	13:CM:44:ARG:CZ	2.37	0.53
22:CV:27:G:H2'	22:CV:28:G:H8	1.74	0.53
27:D1:95:LEU:O	27:D1:95:LEU:CG	2.55	0.53
29:D3:4:LEU:HG	29:D3:39:ASP:HB2	1.91	0.53
32:D6:15:GLU:HA	32:D6:49:HIS:ND1	2.22	0.53
32:D6:18:ARG:HG2	32:D6:18:ARG:NH1	2.19	0.53
32:D6:29:ASN:O	32:D6:30:THR:C	2.46	0.53
36:DA:528:A:C2	36:DA:2043:C:H4'	2.43	0.53
36:DA:534:U:H5'	53:DU:42:ALA:CB	2.39	0.53
36:DA:807:U:H2'	36:DA:808:G:O4'	2.08	0.53
36:DA:1027:A:H2	36:DA:1028:A:N7	2.06	0.53
36:DA:1130:U:O2	36:DA:2025:C:H5''	2.07	0.53
36:DA:1600:C:H2'	36:DA:1601:G:C8	2.43	0.53
36:DA:1613:G:H3'	36:DA:1614:A:H5''	1.90	0.53
36:DA:1825:A:H4'	39:DD:233:HIS:CE1	2.42	0.53
36:DA:1887:C:H2'	36:DA:1888:G:C5'	2.15	0.53
36:DA:2223:G:C2'	36:DA:2224:G:H5'	2.38	0.53
37:DB:91:C:OP1	49:DQ:17:LEU:N	2.41	0.53
38:DC:77:ILE:O	38:DC:77:ILE:HG22	2.08	0.53
40:DE:4:ILE:HG12	40:DE:5:LEU:N	2.23	0.53
41:DF:160:ASN:HD21	41:DF:162:LEU:HD13	1.70	0.53
42:DG:27:ASN:HD22	42:DG:29:TRP:HB2	1.72	0.53
43:DH:26:VAL:HG11	43:DH:76:VAL:HA	1.90	0.53
43:DH:85:LYS:HE3	43:DH:87:LEU:HG	1.88	0.53
43:DH:87:LEU:CD2	43:DH:164:TYR:HA	2.37	0.53
43:DH:98:LEU:HB3	43:DH:125:VAL:HG21	1.90	0.53
50:DR:7:GLY:O	50:DR:8:ARG:HB2	2.08	0.53
51:DS:88:ASP:CG	51:DS:89:ARG:H	2.11	0.53
52:DT:26:ASP:H	52:DT:90:GLN:HA	1.73	0.53
53:DU:97:ASP:O	53:DU:100:VAL:HB	2.08	0.53
55:DW:70:TYR:CE1	55:DW:72:LYS:HA	2.44	0.53
56:DX:3:THR:N	56:DX:6:ASP:OD2	2.41	0.53
57:DY:28:LYS:C	57:DY:38:ILE:HG22	2.29	0.53
1:AA:58:C:H1'	1:AA:388:G:N7	2.24	0.53
1:AA:308:C:H2'	1:AA:309:G:H8	1.74	0.53
1:AA:542:G:H2'	1:AA:543:C:H6	1.74	0.53
1:AA:666:G:H5'	1:AA:726:C:H1'	1.90	0.53
1:AA:995:C:N3	1:AA:1047:G:H5'	2.24	0.53
1:AA:1363(A):A:H4'	1:AA:1364:U:C5'	2.31	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:17:PHE:O	2:AB:17:PHE:CD2	2.58	0.53
2:AB:36:ARG:C	2:AB:38:GLY:N	2.60	0.53
2:AB:81:VAL:O	2:AB:82:ARG:C	2.46	0.53
2:AB:218:ALA:O	2:AB:222:ILE:HG12	2.08	0.53
3:AC:60:ALA:H	3:AC:63:ASN:ND2	2.06	0.53
3:AC:152:ILE:HG22	3:AC:153:VAL:N	2.22	0.53
4:AD:155:LEU:HB2	4:AD:158:ILE:HG12	1.90	0.53
4:AD:171:GLY:O	4:AD:173:TRP:N	2.37	0.53
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.89	0.53
5:AE:118:ILE:HG13	5:AE:119:LEU:N	2.24	0.53
6:AF:23:LYS:HA	6:AF:26:ILE:HD12	1.91	0.53
8:AH:127:LEU:HD12	8:AH:129:VAL:CG1	2.39	0.53
26:B0:5:LYS:HB3	26:B0:5:LYS:NZ	2.23	0.53
28:B2:25:VAL:O	28:B2:27:GLU:N	2.41	0.53
28:B2:33:MET:HA	28:B2:36:ARG:NH1	2.23	0.53
36:BA:275:G:C2	36:BA:276:A:C2	2.97	0.53
36:BA:329:G:H1	57:BY:19:LYS:CE	2.20	0.53
36:BA:548:A:H2'	36:BA:549:G:H5'	1.89	0.53
36:BA:669:G:N3	36:BA:669:G:C2'	2.72	0.53
36:BA:754:C:H2'	36:BA:755:C:C6	2.43	0.53
36:BA:1686:C:H5'	36:BA:1687:G:OP2	2.07	0.53
36:BA:1973:G:H2'	36:BA:1974:C:C6	2.44	0.53
36:BA:2028:U:O4	36:BA:2033:A:OP1	2.26	0.53
39:BD:35:LYS:HG2	39:BD:63:ARG:CB	2.38	0.53
40:BE:119:ARG:NH1	40:BE:158:GLY:HA3	2.23	0.53
41:BF:81:PRO:C	41:BF:82:ILE:O	2.46	0.53
46:BN:15:LEU:O	46:BN:136:GLU:HA	2.07	0.53
46:BN:17:ASP:OD2	46:BN:19:GLU:HB3	2.09	0.53
48:BP:50:ARG:NH1	48:BP:51:PHE:CE2	2.75	0.53
49:BQ:32:TYR:HE2	49:BQ:111:GLU:HG3	1.72	0.53
52:BT:94:ALA:O	52:BT:96:ARG:N	2.41	0.53
53:BU:97:ASP:O	53:BU:100:VAL:HB	2.08	0.53
58:BZ:149:SER:HB2	58:BZ:173:ALA:HA	1.88	0.53
1:CA:386:C:C2'	1:CA:387:U:C5'	2.81	0.53
1:CA:408:A:H4'	4:CD:112:VAL:CG1	2.36	0.53
1:CA:486:U:O2'	1:CA:487:A:H5'	2.08	0.53
1:CA:503:C:H2'	1:CA:504:C:C6	2.43	0.53
1:CA:581:G:O6	1:CA:758:G:N7	2.41	0.53
1:CA:667:G:H4'	15:CO:51:HIS:ND1	2.23	0.53
1:CA:1009:G:H2'	1:CA:1010:G:C8	2.44	0.53
1:CA:1371:G:OP1	9:CI:11:LYS:HE3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1481:U:H2'	1:CA:1482:G:C8	2.43	0.53
2:CB:55:PHE:HD1	2:CB:221:LEU:HG	1.73	0.53
3:CC:114:PRO:N	3:CC:185:GLY:HA3	2.23	0.53
9:CI:112:LYS:HE3	9:CI:116:LYS:O	2.07	0.53
20:CT:44:ALA:CB	20:CT:88:VAL:HG13	2.38	0.53
24:CY:48:C:H2'	24:CY:59:A:C1'	2.32	0.53
25:CZ:363:MET:HB3	25:CZ:364:PRO:CD	2.39	0.53
26:D0:62:LEU:N	26:D0:62:LEU:HD23	2.23	0.53
27:D1:25:LYS:CD	36:DA:388:G:H4'	2.30	0.53
31:D5:16:ARG:HH11	31:D5:20:ARG:NH1	2.07	0.53
36:DA:80:G:H1'	36:DA:346:A:N1	2.23	0.53
36:DA:380:U:H2'	36:DA:381:G:H8	1.73	0.53
36:DA:1345:C:O2'	36:DA:1346:G:H5'	2.08	0.53
36:DA:1666:G:H2'	36:DA:1667:G:O4'	2.08	0.53
36:DA:1775:U:C2'	36:DA:1776:G:C5'	2.86	0.53
36:DA:1971:A:C4	39:DD:241:PRO:HD3	2.43	0.53
36:DA:2105:C:O2'	36:DA:2106:G:H5'	2.09	0.53
36:DA:2110:G:N2	36:DA:2178:C:C5	2.76	0.53
36:DA:2127:G:C6	36:DA:2128:C:N4	2.76	0.53
36:DA:2284:C:H1'	36:DA:2325:G:N2	2.22	0.53
36:DA:2790:A:N3	36:DA:2790:A:H2'	2.23	0.53
37:DB:14:U:H2'	37:DB:15:A:H2	1.73	0.53
42:DG:127:GLY:O	42:DG:166:ASP:OD1	2.26	0.53
45:DK:129:UNK:C	45:DK:131:UNK:N	2.70	0.53
46:DN:60:ILE:CD1	46:DN:99:LEU:HD23	2.38	0.53
47:DO:88:ASN:ND2	47:DO:92:GLU:HB3	2.22	0.53
48:DP:147:LEU:HG	48:DP:148:LEU:H	1.71	0.53
49:DQ:10:ARG:HB2	49:DQ:10:ARG:NH1	2.23	0.53
51:DS:56:LEU:CD2	51:DS:58:LEU:HB2	2.38	0.53
53:DU:99:ALA:HA	53:DU:106:PHE:CG	2.44	0.53
55:DW:107:LEU:HD12	55:DW:107:LEU:N	2.24	0.53
57:DY:13:VAL:CG2	57:DY:73:ARG:O	2.56	0.53
58:DZ:162:GLU:O	58:DZ:163:LEU:HD23	2.09	0.53
1:AA:541:G:O2'	1:AA:542:G:H5'	2.09	0.53
1:AA:686:U:O2'	1:AA:687:A:O5'	2.26	0.53
1:AA:770:C:C2'	1:AA:771:G:H5'	2.38	0.53
1:AA:964:A:OP1	1:AA:1199:U:OP1	2.26	0.53
1:AA:1373:G:H5''	7:AG:36:LYS:HD2	1.90	0.53
1:AA:1412:C:H42	1:AA:1488:G:H1	1.54	0.53
2:AB:10:LEU:O	2:AB:13:ALA:HB3	2.08	0.53
3:AC:83:ARG:C	3:AC:85:ARG:N	2.62	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:20:TYR:HA	4:AD:26:CYS:CB	2.37	0.53
4:AD:98:GLU:OE2	4:AD:107:ARG:NH2	2.41	0.53
10:AJ:96:ILE:HD13	10:AJ:96:ILE:H	1.73	0.53
11:AK:125:PHE:C	11:AK:127:LYS:H	2.10	0.53
14:AN:4:LYS:O	14:AN:5:ALA:C	2.46	0.53
27:B1:11:ARG:CZ	27:B1:11:ARG:HB2	2.38	0.53
28:B2:25:VAL:C	28:B2:27:GLU:N	2.55	0.53
28:B2:35:LEU:HD22	28:B2:35:LEU:C	2.28	0.53
31:B5:10:LYS:HG3	36:BA:1263:U:H1'	1.90	0.53
32:B6:33:LYS:O	32:B6:34:LEU:CB	2.56	0.53
36:BA:24:G:H1'	55:BW:77:ASP:OD1	2.08	0.53
36:BA:225:A:C2'	36:BA:226:G:H5'	2.38	0.53
36:BA:315:G:H2'	36:BA:316:C:C6	2.44	0.53
36:BA:535:C:O2'	36:BA:536:A:H5'	2.08	0.53
36:BA:922:U:H2'	36:BA:923:C:C6	2.43	0.53
36:BA:1498:C:H3'	36:BA:1499:C:H5''	1.90	0.53
36:BA:2422:A:H3'	36:BA:2422:A:H8	1.74	0.53
36:BA:2557:G:O2'	36:BA:2558:C:H5'	2.07	0.53
36:BA:2657:A:O2'	43:BH:160:LYS:NZ	2.40	0.53
36:BA:2833:G:H8	36:BA:2833:G:OP1	1.92	0.53
39:BD:152:GLY:O	39:BD:153:ALA:O	2.26	0.53
39:BD:224:ALA:HB2	39:BD:233:HIS:CB	2.27	0.53
41:BF:118:ALA:O	41:BF:120:GLU:N	2.41	0.53
42:BG:122:PRO:CD	42:BG:181:ARG:HB3	2.38	0.53
43:BH:98:LEU:HB3	43:BH:125:VAL:HG21	1.90	0.53
46:BN:24:GLY:C	46:BN:26:LEU:N	2.61	0.53
48:BP:59:LEU:C	48:BP:61:ARG:N	2.59	0.53
49:BQ:48:GLU:HG2	49:BQ:52:VAL:CG2	2.37	0.53
49:BQ:95:ALA:O	49:BQ:97:VAL:HG22	2.08	0.53
50:BR:107:ASP:O	50:BR:108:GLY:C	2.46	0.53
51:BS:84:GLN:CA	51:BS:105:ALA:HB3	2.37	0.53
54:BV:21:ARG:HB3	54:BV:91:TYR:CG	2.44	0.53
57:BY:28:LYS:C	57:BY:38:ILE:HG22	2.28	0.53
1:CA:223:U:O2'	1:CA:224:C:H5'	2.09	0.53
1:CA:276:G:O2'	1:CA:277:C:H5'	2.09	0.53
1:CA:308:C:H2'	1:CA:309:G:H8	1.72	0.53
1:CA:419:C:H42	1:CA:424:G:N2	2.00	0.53
1:CA:446:G:H2'	1:CA:447:G:O4'	2.08	0.53
1:CA:586:C:H1'	1:CA:878:G:O2'	2.08	0.53
1:CA:658:G:H2'	1:CA:659:U:C6	2.43	0.53
1:CA:923:A:C6	1:CA:924:C:C4	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:943:U:C2'	1:CA:944:G:H5'	2.38	0.53
1:CA:1173:G:H2'	1:CA:1174:G:H8	1.74	0.53
1:CA:1194:U:H2'	1:CA:1195:C:C6	2.43	0.53
1:CA:1275:A:O2'	1:CA:1276:G:H5'	2.08	0.53
1:CA:1363(A):A:C4'	1:CA:1364:U:OP1	2.57	0.53
3:CC:48:TYR:C	3:CC:50:ALA:H	2.11	0.53
4:CD:25:ARG:C	4:CD:27:TYR:N	2.62	0.53
4:CD:54:TYR:O	4:CD:55:ALA:C	2.47	0.53
4:CD:155:LEU:HB2	4:CD:158:ILE:HG12	1.90	0.53
5:CE:71:LEU:O	5:CE:72:GLN:CG	2.56	0.53
10:CJ:53:PRO:C	14:CN:41:ARG:NH2	2.62	0.53
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.89	0.53
13:CM:54:VAL:O	13:CM:57:ARG:N	2.41	0.53
13:CM:106:ASN:O	13:CM:107:ALA:HB2	2.09	0.53
15:CO:4:THR:O	15:CO:6:GLU:N	2.33	0.53
20:CT:31:SER:HA	20:CT:34:LYS:HD2	1.90	0.53
22:CV:1:G:H2'	22:CV:2:C:H6	1.73	0.53
22:CV:49:C:OP1	22:CV:49:C:H2'	2.08	0.53
25:CZ:136:ASN:CG	25:CZ:137:LYS:H	2.11	0.53
26:D0:50:ASN:HD22	26:D0:63:VAL:CG2	2.19	0.53
32:D6:27:LYS:CG	32:D6:30:THR:CB	2.78	0.53
36:DA:631:A:C5'	48:DP:65:ARG:HG2	2.39	0.53
36:DA:655:A:H1'	36:DA:656:G:O4'	2.08	0.53
36:DA:724:U:O2'	36:DA:725:G:H5'	2.08	0.53
36:DA:754:C:H2'	36:DA:755:C:C6	2.43	0.53
36:DA:979:G:N7	36:DA:981:A:OP1	2.41	0.53
36:DA:1343:G:C2	36:DA:1405:U:N3	2.77	0.53
36:DA:1410:G:H2'	36:DA:1411:C:H6	1.74	0.53
36:DA:1427:A:H4'	36:DA:1428:C:O5'	2.08	0.53
36:DA:1761:C:H3'	36:DA:1762:A:C8	2.44	0.53
36:DA:1826:G:H4'	39:DD:242:ARG:NH2	2.22	0.53
36:DA:2521:C:H5'	36:DA:2522:U:OP2	2.09	0.53
36:DA:2840:C:C5'	50:DR:53:HIS:HD2	2.21	0.53
38:DC:75:LEU:CD1	38:DC:113:VAL:HA	2.38	0.53
39:DD:69:ARG:HD2	39:DD:119:ALA:HB2	1.89	0.53
39:DD:106:ILE:O	39:DD:108:PRO:HD3	2.08	0.53
40:DE:38:THR:HG23	40:DE:39:PRO:HD2	1.90	0.53
41:DF:81:PRO:O	41:DF:82:ILE:O	2.25	0.53
42:DG:32:PRO:CB	42:DG:162:THR:HB	2.38	0.53
42:DG:95:ARG:O	42:DG:96:ARG:O	2.25	0.53
42:DG:145:THR:HG21	42:DG:147:ASP:OD1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:35:VAL:HG22	49:DQ:36:ALA:N	2.22	0.53
50:DR:56:LYS:C	50:DR:58:GLY:H	2.12	0.53
52:DT:32:TYR:CD1	52:DT:81:PRO:HB3	2.44	0.53
53:DU:83:LEU:H	53:DU:83:LEU:CD1	2.22	0.53
53:DU:94:ASN:C	53:DU:96:ALA:H	2.12	0.53
54:DV:38:LEU:HD12	54:DV:57:VAL:HB	1.90	0.53
57:DY:86:ARG:CG	57:DY:87:LYS:H	2.17	0.53
58:DZ:48:PHE:C	58:DZ:50:GLN:H	2.12	0.53
58:DZ:75:ASN:O	58:DZ:84:GLU:CB	2.57	0.53
1:AA:197:A:H4'	1:AA:198:G:O5'	2.08	0.53
1:AA:403:C:OP1	4:AD:136:PRO:HD2	2.09	0.53
1:AA:1245:A:O2'	1:AA:1246:C:H5'	2.08	0.53
1:AA:1354:C:O2'	1:AA:1355:G:H5'	2.09	0.53
1:AA:1363(A):A:C4'	1:AA:1364:U:OP1	2.55	0.53
1:AA:1363(A):A:H1'	1:AA:1365:G:C5	2.44	0.53
1:AA:1392:G:N2	1:AA:1502:A:C8	2.76	0.53
3:AC:83:ARG:C	3:AC:85:ARG:H	2.12	0.53
4:AD:138:TYR:C	4:AD:138:TYR:CD2	2.82	0.53
7:AG:38:LEU:O	7:AG:42:ILE:HG13	2.09	0.53
12:AL:20:LYS:N	12:AL:20:LYS:CD	2.66	0.53
13:AM:108:ARG:HH11	13:AM:108:ARG:CG	2.22	0.53
20:AT:57:ARG:CZ	20:AT:102:GLY:HA3	2.38	0.53
20:AT:75:ASN:O	20:AT:79:ARG:HB2	2.09	0.53
22:AV:27:G:H2'	22:AV:28:G:H8	1.74	0.53
25:AZ:136:ASN:CG	25:AZ:137:LYS:H	2.12	0.53
29:B3:15:TYR:HD2	29:B3:19:GLN:NE2	1.99	0.53
36:BA:324:A:O2'	36:BA:325:G:H5'	2.09	0.53
36:BA:615:G:H2'	36:BA:616:G:C8	2.44	0.53
36:BA:629:G:H2'	36:BA:630:G:O4'	2.07	0.53
36:BA:676:A:C8	36:BA:2443:C:H1'	2.36	0.53
36:BA:681:G:H2'	36:BA:682:G:C8	2.42	0.53
36:BA:708:C:H5'	36:BA:709:U:OP2	2.09	0.53
36:BA:738:G:H2'	36:BA:739:G:H5'	1.90	0.53
36:BA:995:C:O2	53:BU:61:TRP:HZ2	1.91	0.53
36:BA:1042:G:H1	36:BA:1112:G:H22	1.54	0.53
36:BA:1316:U:H2'	36:BA:1317:A:C8	2.43	0.53
36:BA:1775:U:H2'	36:BA:1776:G:C4'	2.38	0.53
36:BA:2110:G:N2	36:BA:2178:C:C5	2.76	0.53
36:BA:2282:G:H4'	36:BA:2283:C:O5'	2.06	0.53
36:BA:2547:U:O2	47:BO:23:ARG:NH1	2.41	0.53
36:BA:2893:G:C5'	36:BA:2894:G:H5'	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:24:ILE:CG1	39:BD:25:THR:N	2.67	0.53
39:BD:152:GLY:O	39:BD:153:ALA:C	2.47	0.53
42:BG:33:ARG:C	42:BG:161:THR:HB	2.28	0.53
46:BN:71:ILE:HG22	46:BN:72:TYR:N	2.24	0.53
46:BN:134:ARG:H	46:BN:135:PRO:HD3	1.72	0.53
53:BU:32:PHE:O	53:BU:36:ARG:HB2	2.09	0.53
57:BY:2:ARG:C	57:BY:4:LYS:N	2.61	0.53
58:BZ:6:LYS:HD3	58:BZ:6:LYS:N	2.24	0.53
1:CA:218:C:H5'	1:CA:470:C:N4	2.23	0.53
1:CA:792:A:O2'	1:CA:793:U:OP2	2.27	0.53
1:CA:1203:C:H2'	1:CA:1204:A:C8	2.35	0.53
1:CA:1330:U:H4'	13:CM:23:TYR:CE2	2.43	0.53
1:CA:1373:G:H5''	7:CG:36:LYS:HD2	1.89	0.53
2:CB:16:HIS:HB3	2:CB:210:SER:OG	2.09	0.53
2:CB:24:TRP:CZ3	2:CB:26:PRO:CA	2.87	0.53
2:CB:39:ILE:HG22	2:CB:40:HIS:H	1.73	0.53
2:CB:219:VAL:HA	2:CB:222:ILE:HG12	1.90	0.53
3:CC:106:VAL:O	3:CC:107:GLN:C	2.47	0.53
4:CD:35:ARG:HB3	4:CD:36:ARG:HD2	1.90	0.53
4:CD:72:GLU:O	4:CD:73:ARG:C	2.46	0.53
4:CD:173:TRP:O	4:CD:174:LEU:HD23	2.08	0.53
5:CE:105:VAL:H	5:CE:106:PRO:CD	2.18	0.53
6:CF:101:ALA:OXT	18:CR:28:GLU:HG2	2.08	0.53
14:CN:21:TYR:OH	14:CN:23:ARG:NH2	2.39	0.53
17:CQ:29:HIS:ND1	17:CQ:32:TYR:N	2.48	0.53
17:CQ:31:LEU:HG	17:CQ:32:TYR:CE2	2.43	0.53
19:CS:40:ILE:HG22	19:CS:67:VAL:HG13	1.89	0.53
20:CT:89:ARG:HH21	20:CT:104:LEU:HD21	1.74	0.53
25:CZ:19:HIS:CG	25:CZ:115:GLN:HB2	2.44	0.53
25:CZ:145:GLU:O	25:CZ:149:LEU:N	2.39	0.53
33:D7:39:ARG:HD3	36:DA:458:G:O2'	2.08	0.53
36:DA:94:C:H3'	36:DA:94(A):G:C8	2.43	0.53
36:DA:1199:U:H3	36:DA:1246:A:H61	1.56	0.53
36:DA:1217:C:H2'	36:DA:1218:C:C6	2.44	0.53
36:DA:1772:G:N2	36:DA:1774:C:H5''	2.24	0.53
36:DA:1971:A:C2	39:DD:240:ALA:HA	2.43	0.53
36:DA:2223:G:H2'	36:DA:2224:G:H5'	1.91	0.53
36:DA:2543:G:H8	36:DA:2543:G:H5'	1.73	0.53
36:DA:2764:A:C2	36:DA:2766:G:H1'	2.43	0.53
39:DD:30:GLU:HB3	39:DD:35:LYS:HG3	1.90	0.53
39:DD:177:LEU:C	39:DD:179:SER:H	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:38:ARG:O	41:DF:42:ALA:HB2	2.08	0.53
58:DZ:28:MET:SD	58:DZ:33:LEU:HG	2.48	0.53
58:DZ:57:ILE:N	58:DZ:57:ILE:CD1	2.70	0.53
1:AA:598:U:H4'	8:AH:94:TYR:CD2	2.44	0.53
1:AA:602:A:H2'	1:AA:603:U:C6	2.44	0.53
1:AA:658:G:H2'	1:AA:659:U:C6	2.43	0.53
1:AA:737:A:OP1	6:AF:92:LYS:N	2.41	0.53
1:AA:829:G:O2'	1:AA:830:G:H5'	2.07	0.53
1:AA:1148:U:C2'	1:AA:1149:C:H5'	2.39	0.53
1:AA:1170:A:H2'	1:AA:1171:G:C5'	2.38	0.53
1:AA:1360:A:O2'	1:AA:1361:G:H5'	2.09	0.53
1:AA:1396:A:O4'	1:AA:1398:A:H1'	2.09	0.53
1:AA:1495:U:H2'	1:AA:1496:C:C6	2.44	0.53
4:AD:35:ARG:HB3	4:AD:36:ARG:HD2	1.91	0.53
5:AE:12:LEU:O	5:AE:12:LEU:HD13	2.09	0.53
8:AH:14:ARG:CB	8:AH:14:ARG:NH1	2.72	0.53
11:AK:57:THR:CG2	11:AK:60:ALA:H	2.22	0.53
13:AM:120:LYS:HA	13:AM:120:LYS:NZ	2.24	0.53
20:AT:94:ALA:O	20:AT:95:ALA:CB	2.57	0.53
22:AV:41:C:H2'	22:AV:42:C:H5'	1.91	0.53
22:AV:54:U:H2'	22:AV:55:U:H5'	1.90	0.53
25:AZ:26:THR:HG21	62:AZ:501:GDP:H8	1.73	0.53
25:AZ:92:MET:SD	25:AZ:119:HIS:CD2	3.02	0.53
25:AZ:254:GLU:HG3	25:AZ:307:PRO:HA	1.90	0.53
25:AZ:325:LYS:HB2	25:AZ:331:HIS:HA	1.90	0.53
26:B0:62:LEU:N	26:B0:62:LEU:HD23	2.22	0.53
32:B6:6:ARG:HH12	32:B6:7:ILE:HG13	1.73	0.53
32:B6:18:ARG:HE	32:B6:43:CYS:HB3	1.74	0.53
36:BA:31:C:C3'	36:BA:32:C:H5''	2.37	0.53
36:BA:464:U:H2'	36:BA:465:G:O4'	2.08	0.53
36:BA:718:A:C2'	36:BA:719:C:H5'	2.37	0.53
36:BA:956:G:OP2	49:BQ:87:LYS:HE2	2.09	0.53
36:BA:1342:A:N1	36:BA:1345:C:C4	2.76	0.53
36:BA:1431:U:H2'	36:BA:1432:C:H5'	1.89	0.53
36:BA:1680:U:H2'	36:BA:1681:G:O4'	2.09	0.53
36:BA:1856:G:O2'	36:BA:1857:G:H5'	2.08	0.53
36:BA:2041:U:H2'	36:BA:2042:A:C8	2.42	0.53
36:BA:2190:G:N3	36:BA:2190:G:H2'	2.22	0.53
36:BA:2790:A:N3	36:BA:2790:A:H2'	2.23	0.53
36:BA:2839:G:H5'	50:BR:46:GLY:HA2	1.90	0.53
38:BC:214:VAL:CG2	38:BC:224:ILE:HG21	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:23:VAL:CG1	40:BE:173:VAL:HG21	2.39	0.53
43:BH:155:SER:O	43:BH:157:TYR:N	2.40	0.53
47:BO:80:ASP:OD2	52:BT:71:GLY:HA3	2.09	0.53
51:BS:90:GLY:O	51:BS:92:TYR:HD1	1.90	0.53
54:BV:19:LYS:HZ3	54:BV:20:LEU:N	2.07	0.53
55:BW:61:ASN:O	55:BW:62:HIS:ND1	2.41	0.53
58:BZ:60:GLU:HA	58:BZ:66:SER:CA	2.38	0.53
1:CA:444:C:H2'	1:CA:445:G:C8	2.44	0.53
1:CA:542:G:H2'	1:CA:543:C:H6	1.74	0.53
1:CA:780:A:H2	1:CA:802:A:N7	2.07	0.53
1:CA:858:G:H22	1:CA:869:G:H3'	1.73	0.53
1:CA:876:G:H2'	1:CA:877:C:C6	2.44	0.53
1:CA:1468:A:H3'	1:CA:1469:G:H8	1.74	0.53
1:CA:1517:G:H2'	1:CA:1518:A:O4'	2.09	0.53
2:CB:74:LYS:NZ	2:CB:76:GLN:HB2	2.22	0.53
3:CC:83:ARG:C	3:CC:85:ARG:N	2.62	0.53
4:CD:79:PHE:HA	4:CD:93:PHE:HD2	1.71	0.53
8:CH:6:ILE:O	8:CH:9:MET:N	2.41	0.53
13:CM:57:ARG:CG	13:CM:61:GLU:HB2	2.36	0.53
19:CS:42:PRO:O	19:CS:43:GLU:HB3	2.08	0.53
25:CZ:258:LEU:HD23	25:CZ:376:LYS:CB	2.38	0.53
27:D1:82:LEU:C	27:D1:83:GLU:HG3	2.28	0.53
36:DA:181:A:C2	36:DA:182:A:C4	2.96	0.53
36:DA:416:C:H42	36:DA:2407:G:H1	1.55	0.53
36:DA:479:A:O2'	36:DA:481:G:H8	1.92	0.53
36:DA:532:A:H5''	53:DU:28:ARG:NH1	2.23	0.53
36:DA:996:A:C5'	53:DU:94:ASN:HB2	2.37	0.53
36:DA:1361:G:N2	36:DA:1371:G:H1'	2.23	0.53
36:DA:1437:C:H2'	36:DA:1437:C:O2	2.07	0.53
36:DA:1667:G:O2'	36:DA:1991:U:O4	2.25	0.53
36:DA:1902:C:H4'	39:DD:244:ARG:CB	2.39	0.53
36:DA:2111:C:H2'	36:DA:2112:G:H5''	1.90	0.53
36:DA:2337:G:H2'	36:DA:2338:G:C8	2.42	0.53
36:DA:2589:A:H2'	36:DA:2590:A:C8	2.43	0.53
38:DC:65:PRO:HD2	38:DC:188:ASN:OD1	2.08	0.53
39:DD:210:GLY:O	39:DD:211:ARG:CB	2.54	0.53
40:DE:35:GLN:C	40:DE:36:ARG:HD2	2.29	0.53
41:DF:81:PRO:C	41:DF:82:ILE:O	2.45	0.53
41:DF:187:VAL:HG12	48:DP:7:ARG:HA	1.90	0.53
42:DG:6:ALA:O	42:DG:10:LYS:N	2.41	0.53
48:DP:30:THR:CG2	48:DP:31:ALA:N	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:61:ASN:OD1	51:DS:62:LYS:N	2.41	0.53
52:DT:38:ASN:ND2	52:DT:38:ASN:O	2.41	0.53
52:DT:57:PHE:HE2	52:DT:79:HIS:HD1	1.55	0.53
54:DV:49:THR:O	54:DV:50:PRO:C	2.46	0.53
55:DW:37:ARG:HH11	55:DW:37:ARG:CG	2.21	0.53
58:DZ:130:PRO:CA	58:DZ:133:ILE:HD11	2.32	0.53
1:AA:264:U:H4'	17:AQ:63:ARG:HD3	1.89	0.53
1:AA:346:G:C5'	52:BT:41:ARG:HH21	2.17	0.53
1:AA:686:U:H2'	1:AA:687:A:C8	2.43	0.53
1:AA:1260:C:H3'	1:AA:1260:C:C6	2.43	0.53
1:AA:1396:A:H4'	1:AA:1397:C:H5'	1.90	0.53
3:AC:102:ASN:O	3:AC:103:VAL:HG23	2.08	0.53
7:AG:17:VAL:HG12	7:AG:18:TYR:N	2.24	0.53
8:AH:77:GLU:HG3	8:AH:78:GLN:N	2.23	0.53
9:AI:82:ALA:HA	9:AI:85:LEU:HD11	1.89	0.53
10:AJ:61:GLU:HG3	14:AN:58:LYS:CE	2.39	0.53
13:AM:93:ARG:HG3	36:BA:888:C:OP2	2.09	0.53
14:AN:7:ILE:CG1	14:AN:8:GLU:N	2.71	0.53
17:AQ:61:GLU:HA	17:AQ:71:PHE:CD1	2.44	0.53
19:AS:44:MET:CA	19:AS:47:HIS:HD2	2.08	0.53
22:AV:58:A:O2'	22:AV:59:U:H2'	2.09	0.53
24:AY:28:A:H2'	24:AY:29:C:C6	2.44	0.53
25:AZ:136:ASN:C	25:AZ:138:VAL:N	2.60	0.53
32:B6:27:LYS:CG	32:B6:30:THR:CB	2.80	0.53
36:BA:48:G:H22	36:BA:177:G:H21	1.54	0.53
36:BA:74:A:H5''	36:BA:75:G:C1'	2.38	0.53
36:BA:107:C:H1'	36:BA:294:A:N3	2.23	0.53
36:BA:205:G:O2'	36:BA:206:U:OP2	2.24	0.53
36:BA:272(J):C:H2'	36:BA:274:G:H5''	1.91	0.53
36:BA:416:C:H42	36:BA:2407:G:H1	1.56	0.53
36:BA:419:C:H2'	36:BA:420:C:H6	1.74	0.53
36:BA:955:C:OP1	49:BQ:87:LYS:HE3	2.09	0.53
36:BA:1090:U:O4	36:BA:1102:C:H1'	2.08	0.53
36:BA:1130:U:O2'	36:BA:1131:G:H2'	2.08	0.53
36:BA:1186:G:C2'	36:BA:1187:G:H5'	2.38	0.53
36:BA:1221(A):C:H42	36:BA:1228:G:H1	1.55	0.53
36:BA:1275:A:N7	50:BR:16:HIS:HB2	2.23	0.53
36:BA:1308:A:H2'	36:BA:1309:G:O4'	2.08	0.53
36:BA:1328:G:H8	36:BA:1328:G:O5'	1.91	0.53
36:BA:1458:C:C4'	36:BA:1459:G:O4'	2.56	0.53
36:BA:1542:A:H8	36:BA:1542:A:H3'	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2073:C:H2'	36:BA:2074:U:C6	2.43	0.53
36:BA:2140:C:H2'	36:BA:2141:G:H8	1.73	0.53
36:BA:2457:U:O2'	36:BA:2458:G:H5'	2.07	0.53
36:BA:2711:A:OP1	36:BA:2712(A):A:P	2.67	0.53
39:BD:24:ILE:HG23	39:BD:25:THR:H	1.72	0.53
39:BD:210:GLY:O	39:BD:211:ARG:CB	2.57	0.53
41:BF:107:LYS:O	41:BF:110:LEU:HB3	2.09	0.53
43:BH:136:ILE:HD12	43:BH:136:ILE:H	1.72	0.53
51:BS:42:ASP:C	51:BS:44:LYS:N	2.62	0.53
52:BT:23:ARG:HG2	52:BT:120:ARG:NH1	2.24	0.53
52:BT:32:TYR:CD1	52:BT:81:PRO:HB3	2.44	0.53
53:BU:94:ASN:ND2	53:BU:95:LEU:HG	2.24	0.53
1:CA:539:A:H2'	1:CA:540:G:C8	2.43	0.53
1:CA:571:U:O2	1:CA:918:A:H5'	2.09	0.53
1:CA:642:A:N7	8:CH:115:SER:HA	2.24	0.53
1:CA:686:U:H2'	1:CA:687:A:C8	2.43	0.53
1:CA:1170:A:H2'	1:CA:1171:G:C5'	2.38	0.53
2:CB:35:GLU:HA	2:CB:39:ILE:O	2.08	0.53
3:CC:95:THR:O	3:CC:97:LYS:N	2.42	0.53
6:CF:19:LEU:HD23	6:CF:19:LEU:C	2.28	0.53
8:CH:25:ASP:O	8:CH:26:VAL:CB	2.55	0.53
9:CI:128:ARG:HG2	9:CI:128:ARG:OXT	2.08	0.53
10:CJ:18:ALA:O	10:CJ:21:GLN:N	2.42	0.53
10:CJ:55:LYS:O	10:CJ:56:HIS:CG	2.62	0.53
16:CP:59:TRP:O	16:CP:64:ALA:HB2	2.08	0.53
25:CZ:310:ILE:HG21	25:CZ:379:ALA:HB1	1.89	0.53
33:D7:11:LYS:HE2	36:DA:686:G:C2	2.43	0.53
36:DA:64:A:H2'	36:DA:65:C:O4'	2.08	0.53
36:DA:233:A:H2'	36:DA:234:C:O4'	2.08	0.53
36:DA:329:G:H1	57:DY:19:LYS:CE	2.21	0.53
36:DA:809:G:O4'	36:DA:1254:A:H1'	2.09	0.53
36:DA:1036:G:C2	36:DA:1120:G:C6	2.97	0.53
36:DA:1761:C:H2'	36:DA:1762:A:H8	1.72	0.53
36:DA:1791:A:H3'	36:DA:1792:G:H8	1.74	0.53
36:DA:1973:G:H2'	36:DA:1974:C:C6	2.44	0.53
38:DC:25:ALA:O	38:DC:28:LEU:N	2.42	0.53
38:DC:50:ASP:OD1	38:DC:51:PRO:HD2	2.09	0.53
42:DG:172:LEU:O	42:DG:172:LEU:HD23	2.09	0.53
48:DP:98:GLU:O	48:DP:101:VAL:HG22	2.08	0.53
50:DR:38:VAL:HB	50:DR:39:PRO:CD	2.34	0.53
51:DS:66:ALA:CA	51:DS:99:LYS:HD3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:61:PHE:HD2	52:DT:61:PHE:H	1.57	0.53
53:DU:65:ILE:HG13	53:DU:96:ALA:HB1	1.91	0.53
56:DX:33:LYS:HD3	56:DX:33:LYS:N	2.23	0.53
58:DZ:132:ASN:O	58:DZ:133:ILE:HD13	2.08	0.53
1:AA:191:G:H2'	1:AA:192:U:C6	2.44	0.53
1:AA:495:A:N6	4:AD:119:GLN:HE22	2.07	0.53
1:AA:686:U:O4	1:AA:703:G:H1'	2.09	0.53
1:AA:838:G:C5	1:AA:840:C:H1'	2.43	0.53
1:AA:972:C:O3'	10:AJ:57:LYS:HG2	2.09	0.53
1:AA:1272:G:C2	1:AA:1273:G:H1'	2.44	0.53
1:AA:1352:C:O2	1:AA:1371:G:C2	2.62	0.53
2:AB:107:THR:HA	2:AB:110:GLN:NE2	2.23	0.53
2:AB:130:ARG:CZ	2:AB:131:PRO:HD2	2.39	0.53
3:AC:114:PRO:N	3:AC:185:GLY:HA3	2.23	0.53
4:AD:5:ILE:O	4:AD:5:ILE:HG22	2.08	0.53
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.23	0.53
8:AH:120:THR:C	8:AH:122:ARG:H	2.11	0.53
9:AI:5:TYR:CG	9:AI:6:GLY:N	2.77	0.53
11:AK:120:ARG:HH12	11:AK:126:ARG:CD	2.21	0.53
13:AM:14:ARG:HB2	13:AM:17:VAL:HG23	1.91	0.53
14:AN:12:ARG:HB3	14:AN:14:PRO:CG	2.39	0.53
15:AO:64:ARG:HG3	15:AO:64:ARG:HH11	1.72	0.53
17:AQ:60:ILE:O	17:AQ:71:PHE:HD1	1.92	0.53
18:AR:66:LEU:HG	18:AR:70:ILE:CD1	2.36	0.53
20:AT:23:ARG:HH11	20:AT:23:ARG:HG2	1.73	0.53
36:BA:7:G:H21	36:BA:8:A:H1'	1.72	0.53
36:BA:17:G:H21	36:BA:555:U:C5'	2.22	0.53
36:BA:272(E):G:H2'	36:BA:272(F):C:H5'	1.91	0.53
36:BA:769:G:H2'	36:BA:770:G:C8	2.44	0.53
36:BA:936:C:H2'	36:BA:937:U:C6	2.42	0.53
36:BA:1036:G:C2	36:BA:1120:G:C6	2.97	0.53
36:BA:1914:C:H2'	36:BA:1915:U:O4'	2.08	0.53
36:BA:1949:G:C6	36:BA:1950:G:C6	2.97	0.53
36:BA:2290:G:C2	36:BA:2343:C:O2	2.62	0.53
36:BA:2329:G:O2'	36:BA:2330:G:H5'	2.09	0.53
38:BC:131:LEU:HB3	38:BC:136:LEU:CB	2.37	0.53
38:BC:189:ILE:O	38:BC:192:PHE:HB3	2.09	0.53
39:BD:30:GLU:OE1	39:BD:63:ARG:HD3	2.09	0.53
39:BD:91:ARG:HG2	39:BD:91:ARG:NH1	2.21	0.53
40:BE:110:GLY:O	50:BR:2:ARG:HG2	2.09	0.53
46:BN:3:THR:CG2	46:BN:4:TYR:H	2.14	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:13:ARG:NH2	52:BT:15:VAL:HG11	2.24	0.53
52:BT:57:PHE:HE2	52:BT:79:HIS:HD1	1.56	0.53
52:BT:62:THR:HG22	52:BT:75:ILE:CG2	2.37	0.53
55:BW:59:VAL:O	55:BW:60:ASN:C	2.46	0.53
56:BX:10:ALA:HB3	56:BX:29:TRP:CD1	2.44	0.53
57:BY:21:LYS:HG2	57:BY:21:LYS:O	2.08	0.53
57:BY:37:VAL:CG2	57:BY:38:ILE:N	2.67	0.53
58:BZ:151:HIS:CB	58:BZ:170:THR:HA	2.39	0.53
1:CA:321:A:H62	1:CA:328:C:H1'	1.73	0.53
1:CA:329:A:H2'	1:CA:332:G:O6	2.08	0.53
1:CA:838:G:C5	1:CA:840:C:H1'	2.44	0.53
1:CA:866:C:N4	1:CA:873:A:H2	2.07	0.53
1:CA:1054:C:O2'	1:CA:1055:A:H5''	2.09	0.53
1:CA:1462:G:C6	1:CA:1463:C:C4	2.96	0.53
2:CB:8:LYS:HZ3	2:CB:217:ARG:CZ	2.22	0.53
2:CB:30:ARG:HG3	2:CB:31:TYR:CD2	2.44	0.53
2:CB:182:ILE:O	2:CB:184:VAL:HG23	2.09	0.53
2:CB:200:ILE:CG2	2:CB:202:PRO:HD3	2.39	0.53
2:CB:204:ASN:HD21	2:CB:206:ASP:N	2.05	0.53
3:CC:113:ALA:O	3:CC:115:LEU:N	2.42	0.53
4:CD:5:ILE:O	4:CD:5:ILE:HG22	2.08	0.53
4:CD:24:GLU:H	4:CD:112:VAL:CG2	2.22	0.53
4:CD:99:SER:O	4:CD:140:VAL:HG23	2.09	0.53
4:CD:138:TYR:C	4:CD:138:TYR:CD2	2.82	0.53
5:CE:103:GLY:O	5:CE:107:ARG:HB3	2.09	0.53
7:CG:105:VAL:HG12	7:CG:109:ASN:HD22	1.73	0.53
15:CO:35:ARG:NH2	15:CO:59:MET:HE1	2.24	0.53
15:CO:36:ILE:HG23	15:CO:56:LEU:CD1	2.32	0.53
17:CQ:40:LYS:HD3	17:CQ:42:TYR:CZ	2.44	0.53
19:CS:9:VAL:C	19:CS:11:VAL:H	2.12	0.53
25:CZ:191:GLY:HA2	25:CZ:196:VAL:CG1	2.37	0.53
28:D2:65:ASN:O	28:D2:68:ARG:N	2.41	0.53
36:DA:183:C:O2'	36:DA:184:C:H5'	2.09	0.53
36:DA:363:G:N1	36:DA:363(A):A:N7	2.56	0.53
36:DA:494:G:H2'	36:DA:494:G:N3	2.22	0.53
36:DA:716:A:C2'	36:DA:717:G:H5''	2.39	0.53
36:DA:1051:G:OP1	36:DA:2752:C:H1'	2.07	0.53
36:DA:1171:G:N7	36:DA:1173:G:H1'	2.24	0.53
36:DA:1316:U:H2'	36:DA:1317:A:C8	2.43	0.53
36:DA:1957:C:O2'	36:DA:1985:G:H1'	2.09	0.53
36:DA:2097:C:O2'	36:DA:2098:U:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2126:A:H5'	38:DC:37:PHE:CE2	2.44	0.53
36:DA:2796:U:C2'	36:DA:2799:C:H5'	2.39	0.53
36:DA:2880:C:H3'	36:DA:2880:C:H6	1.72	0.53
41:DF:8:GLN:O	41:DF:10:PRO:HD3	2.08	0.53
46:DN:28:THR:CG2	46:DN:29:LYS:N	2.61	0.53
50:DR:28:LEU:HA	50:DR:34:ILE:CG1	2.39	0.53
52:DT:64:ARG:HA	52:DT:72:VAL:O	2.08	0.53
53:DU:3:ARG:NH1	53:DU:5:LYS:HB3	2.23	0.53
53:DU:9:VAL:O	53:DU:12:ARG:HB2	2.08	0.53
53:DU:95:LEU:HD12	54:DV:11:GLN:NE2	2.20	0.53
54:DV:82:ARG:HD2	54:DV:82:ARG:N	2.22	0.53
55:DW:41:LYS:O	55:DW:43:GLY:N	2.42	0.53
58:DZ:141:VAL:HA	58:DZ:144:LEU:CD2	2.22	0.53
1:AA:630:G:H2'	1:AA:630:G:N3	2.23	0.53
1:AA:977:A:H8	1:AA:982:U:O4	1.91	0.53
1:AA:1316:G:H4'	14:AN:18:VAL:HG11	1.91	0.53
1:AA:1368:G:C2'	1:AA:1369:C:H5'	2.38	0.53
1:AA:1420:C:N4	1:AA:1480:G:H1	1.99	0.53
2:AB:51:LEU:O	2:AB:55:PHE:HD2	1.92	0.53
5:AE:20:GLN:O	5:AE:22:GLY:N	2.42	0.53
8:AH:29:SER:CB	8:AH:32:LYS:HB2	2.38	0.53
8:AH:103:VAL:HG12	8:AH:108:GLY:HA3	1.90	0.53
9:AI:9:ARG:CB	9:AI:104:ARG:HH12	2.17	0.53
10:AJ:7:LYS:C	10:AJ:8:LEU:HD12	2.29	0.53
10:AJ:29:ARG:HG2	10:AJ:29:ARG:O	2.09	0.53
19:AS:40:ILE:HG22	19:AS:67:VAL:HG13	1.91	0.53
22:AV:18:G:H4'	22:AV:60:U:O2	2.07	0.53
25:AZ:199:ILE:HG22	25:AZ:203:LEU:HD12	1.90	0.53
27:B1:40:ARG:HG3	27:B1:41:ARG:H	1.74	0.53
31:B5:6:VAL:O	31:B5:6:VAL:HG13	2.08	0.53
36:BA:372:G:O2'	36:BA:373:U:OP2	2.27	0.53
36:BA:484:C:H2'	36:BA:485:C:C6	2.44	0.53
36:BA:814:C:H2'	36:BA:815:C:H6	1.73	0.53
36:BA:874:G:O2'	36:BA:875:G:H5'	2.09	0.53
36:BA:1343:G:C2	36:BA:1405:U:N3	2.77	0.53
36:BA:1358:G:O2'	36:BA:1359:A:H5''	2.09	0.53
36:BA:1722:A:O2'	36:BA:1739:U:H5'	2.08	0.53
36:BA:2260:C:N4	36:BA:2280:G:H1	2.07	0.53
36:BA:2497:A:H8	36:BA:2497:A:OP2	1.91	0.53
36:BA:2593:U:H2'	36:BA:2594:C:H6	1.74	0.53
37:BB:77:U:O2	37:BB:77:U:H2'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BB:79:C:C2'	37:BB:80:U:H5'	2.38	0.53
38:BC:22:ILE:HD12	38:BC:228:SER:C	2.29	0.53
38:BC:214:VAL:CG2	38:BC:224:ILE:HD13	2.37	0.53
39:BD:145:VAL:HG12	39:BD:146:GLU:N	2.23	0.53
39:BD:177:LEU:C	39:BD:179:SER:H	2.10	0.53
39:BD:249:PRO:HG2	39:BD:250:TRP:N	2.24	0.53
41:BF:9:ILE:HA	41:BF:14:PRO:O	2.09	0.53
42:BG:74:LYS:HD2	42:BG:74:LYS:N	2.23	0.53
43:BH:37:VAL:HG11	43:BH:68:THR:HG21	1.91	0.53
43:BH:76:VAL:C	43:BH:78:GLY:H	2.12	0.53
48:BP:130:PHE:N	48:BP:130:PHE:HD2	2.04	0.53
51:BS:97:ARG:O	51:BS:99:LYS:HG2	2.09	0.53
52:BT:23:ARG:CG	52:BT:120:ARG:NH1	2.72	0.53
53:BU:52:ARG:NH2	53:BU:55:ARG:NH2	2.56	0.53
53:BU:86:ALA:O	53:BU:88:ILE:HG23	2.09	0.53
58:BZ:105:VAL:O	58:BZ:105:VAL:HG13	2.08	0.53
1:CA:90:U:H4'	1:CA:91:C:C6	2.44	0.53
1:CA:106:C:O2	1:CA:379:C:H4'	2.09	0.53
1:CA:453:A:O2'	1:CA:454:C:O4'	2.27	0.53
1:CA:602:A:H2'	1:CA:603:U:C6	2.44	0.53
1:CA:607:A:H2'	1:CA:608:A:O4'	2.09	0.53
1:CA:705:U:C5	1:CA:706:A:C5	2.97	0.53
1:CA:973:G:H1'	10:CJ:55:LYS:HE2	1.90	0.53
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.39	0.53
1:CA:1465:C:C5	1:CA:1466:C:C4	2.97	0.53
2:CB:8:LYS:CD	2:CB:217:ARG:NH2	2.72	0.53
3:CC:26:LYS:CG	3:CC:27:LYS:H	2.22	0.53
3:CC:130:VAL:O	3:CC:134:ILE:HG13	2.09	0.53
12:CL:34:ARG:HG2	12:CL:35:GLY:N	2.23	0.53
15:CO:82:ILE:CG2	15:CO:83:GLU:H	2.13	0.53
22:CW:74:C:C5	22:CW:75:C:C4	2.97	0.53
27:D1:45:ASN:HB2	36:DA:397:G:H5''	1.89	0.53
34:D8:26:LYS:HB2	34:D8:44:LYS:HG3	1.90	0.53
34:D8:57:ARG:C	34:D8:59:LYS:H	2.12	0.53
35:D9:9:ARG:O	35:D9:11:CYS:N	2.42	0.53
36:DA:95:G:H2'	36:DA:96:G:O4'	2.08	0.53
36:DA:705:A:C2	36:DA:727:A:H1'	2.44	0.53
36:DA:1141:U:H5	46:DN:64:GLY:HA3	1.74	0.53
36:DA:1268:A:H2'	36:DA:1269:A:H8	1.74	0.53
36:DA:1458:C:C4'	36:DA:1459:G:O4'	2.57	0.53
36:DA:1491:G:H5'	39:DD:99:ASP:OD1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1551:C:H2'	36:DA:1552:G:C5'	2.38	0.53
36:DA:2567:G:H2'	36:DA:2568:C:H6	1.74	0.53
36:DA:2628:C:H5'	36:DA:2781:A:C6	2.44	0.53
36:DA:2684:U:O5'	36:DA:2684:U:H6	1.91	0.53
38:DC:99:ILE:HG22	38:DC:99:ILE:O	2.09	0.53
41:DF:3:GLU:O	41:DF:24:LEU:HG	2.09	0.53
41:DF:31:HIS:CD2	48:DP:13:ASN:HB2	2.44	0.53
41:DF:122:LYS:HE3	41:DF:122:LYS:N	2.24	0.53
48:DP:95:VAL:HG23	48:DP:125:VAL:HG23	1.91	0.53
49:DQ:87:LYS:O	49:DQ:88:GLY:O	2.26	0.53
52:DT:47:GLY:HA3	52:DT:65:LYS:HB2	1.91	0.53
54:DV:58:VAL:HG12	54:DV:59:ALA:N	2.23	0.53
55:DW:39:THR:O	55:DW:44:ALA:HB2	2.09	0.53
56:DX:7:VAL:O	56:DX:30:VAL:HA	2.09	0.53
57:DY:13:VAL:HG23	57:DY:74:PRO:HA	1.91	0.53
58:DZ:12:GLY:CA	58:DZ:36:LYS:HZ3	2.22	0.53
58:DZ:47:VAL:O	58:DZ:50:GLN:N	2.36	0.53
1:AA:39:G:O2'	1:AA:40:C:H5'	2.09	0.53
1:AA:202:U:O2'	1:AA:203:U:OP1	2.25	0.53
1:AA:347:G:N2	1:AA:348:G:C4	2.77	0.53
1:AA:453:A:O2'	1:AA:454:C:O4'	2.27	0.53
1:AA:651:C:H2'	1:AA:652:U:O4'	2.09	0.53
1:AA:968:A:C4	1:AA:1062:U:H4'	2.44	0.53
1:AA:976:G:H5'	1:AA:1358:U:O2'	2.09	0.53
1:AA:1380:U:O2	7:AG:3:ARG:NH2	2.41	0.53
2:AB:39:ILE:HG22	2:AB:40:HIS:H	1.74	0.53
3:AC:13:GLY:O	3:AC:14:ILE:CB	2.57	0.53
3:AC:48:TYR:O	3:AC:50:ALA:N	2.41	0.53
4:AD:25:ARG:C	4:AD:27:TYR:N	2.60	0.53
4:AD:201:GLN:HA	4:AD:204:ILE:CD1	2.35	0.53
7:AG:44:TYR:HE1	9:AI:41:VAL:HG11	1.74	0.53
8:AH:40:ALA:CA	8:AH:45:ILE:HG13	2.39	0.53
18:AR:31:LEU:HD21	18:AR:65:ILE:HD12	1.91	0.53
22:AV:44:G:O2'	22:AV:45:U:H5'	2.08	0.53
22:AV:74:C:H2'	22:AV:75:C:H5'	1.90	0.53
24:AY:60:U:H5''	24:AY:61:C:H5	1.74	0.53
25:AZ:152:MET:CE	25:AZ:156:ASP:HB2	2.39	0.53
27:B1:34:THR:HG22	27:B1:35:THR:H	1.73	0.53
30:B4:42:PHE:O	30:B4:42:PHE:CD2	2.62	0.53
33:B7:11:LYS:HE2	36:BA:686:G:C2	2.44	0.53
36:BA:45:C:OP2	36:BA:215:G:H2'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:197:A:H5'	36:BA:197:A:H8	1.74	0.53
36:BA:363:G:N1	36:BA:363(A):A:N7	2.57	0.53
36:BA:494:G:H2'	36:BA:494:G:N3	2.24	0.53
36:BA:809:G:O2'	36:BA:810:U:H5'	2.08	0.53
36:BA:857:C:H5'	36:BA:858:U:OP2	2.08	0.53
36:BA:1092:C:H2'	36:BA:1093:G:O4'	2.08	0.53
36:BA:1666:G:H2'	36:BA:1667:G:O4'	2.08	0.53
36:BA:2303:G:O2'	42:BG:132:ASN:CB	2.56	0.53
36:BA:2306:C:H4'	42:BG:136:ARG:CZ	2.39	0.53
36:BA:2508:G:C2	36:BA:2582:G:O6	2.62	0.53
37:BB:42:C:O2'	37:BB:43:C:H6	1.91	0.53
37:BB:44:G:H4'	37:BB:45:A:N7	2.23	0.53
41:BF:160:ASN:HD21	41:BF:162:LEU:HD13	1.73	0.53
41:BF:182:ASN:OD1	41:BF:185:ASP:N	2.29	0.53
42:BG:177:GLY:O	42:BG:179:PRO:HD3	2.08	0.53
43:BH:149:ARG:HA	43:BH:162:ILE:HG23	1.91	0.53
45:BK:99:UNK:N	45:BK:135:UNK:CB	2.72	0.53
45:BK:129:UNK:C	45:BK:131:UNK:N	2.71	0.53
46:BN:58:ASP:C	46:BN:60:ILE:N	2.61	0.53
48:BP:23:PRO:HG2	48:BP:33:ARG:HE	1.74	0.53
49:BQ:52:VAL:O	49:BQ:53:ALA:C	2.47	0.53
52:BT:74:ARG:C	52:BT:75:ILE:HD12	2.29	0.53
52:BT:96:ARG:CZ	52:BT:96:ARG:HB2	2.39	0.53
54:BV:58:VAL:HG12	54:BV:59:ALA:N	2.23	0.53
55:BW:89:ALA:O	55:BW:92:ARG:HD2	2.09	0.53
57:BY:47:LYS:HA	57:BY:60:PHE:CZ	2.43	0.53
58:BZ:69:THR:HG22	58:BZ:89:PHE:C	2.29	0.53
1:CA:110:C:C2'	1:CA:111:G:H5'	2.39	0.53
1:CA:260:G:O2'	1:CA:261:U:H5'	2.08	0.53
1:CA:594:G:C2'	1:CA:595:G:H5'	2.38	0.53
1:CA:642:A:H2'	1:CA:643:C:C6	2.43	0.53
1:CA:1004:A:N6	1:CA:1035:A:C5	2.77	0.53
2:CB:31:TYR:HE1	2:CB:200:ILE:HG12	1.74	0.53
2:CB:105:PHE:O	2:CB:106:LYS:C	2.46	0.53
8:CH:77:GLU:HG3	8:CH:78:GLN:N	2.24	0.53
13:CM:70:LEU:HD23	13:CM:70:LEU:C	2.29	0.53
25:CZ:226:GLU:HG3	25:CZ:240:GLY:CA	2.39	0.53
27:D1:55:GLY:O	27:D1:57:GLU:N	2.41	0.53
27:D1:71:TYR:O	27:D1:74:VAL:N	2.41	0.53
31:D5:5:PRO:CA	36:DA:2056:G:H22	2.21	0.53
35:D9:19:ARG:O	35:D9:21:GLY:N	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:25:U:H5''	55:DW:79:GLY:HA2	1.90	0.53
36:DA:440:G:H22	41:DF:46:ARG:HH21	1.54	0.53
36:DA:614(A):U:H4'	36:DA:614(B):G:H5''	1.91	0.53
36:DA:657:U:C2	36:DA:658:C:C5	2.97	0.53
36:DA:904:C:H6	36:DA:904:C:OP2	1.91	0.53
36:DA:1064:C:C2'	36:DA:1065:U:H5''	2.40	0.53
36:DA:1131:G:C8	36:DA:2025:C:H4'	2.44	0.53
36:DA:1170:G:H1	36:DA:1179:C:H42	1.56	0.53
36:DA:1741:A:H3'	36:DA:1742:G:H8	1.74	0.53
36:DA:2537:U:H2'	36:DA:2538:C:C6	2.44	0.53
36:DA:2547:U:H1'	47:DO:28:SER:O	2.09	0.53
36:DA:2620:C:C1'	40:DE:156:MET:HB2	2.39	0.53
39:DD:126:GLN:C	39:DD:193:VAL:HG11	2.30	0.53
40:DE:11:MET:HB2	40:DE:23:VAL:O	2.09	0.53
40:DE:166:THR:C	40:DE:168:MET:H	2.13	0.53
41:DF:118:ALA:CB	41:DF:123:LEU:HD22	2.39	0.53
42:DG:39:ILE:HA	42:DG:156:ASP:O	2.08	0.53
42:DG:162:THR:O	42:DG:164:GLU:HG3	2.08	0.53
46:DN:13:TRP:O	46:DN:135:PRO:HD2	2.09	0.53
46:DN:101:HIS:C	46:DN:103:VAL:N	2.61	0.53
46:DN:108:PRO:HG2	46:DN:113:GLY:CA	2.39	0.53
49:DQ:44:ALA:HA	49:DQ:47:ILE:CD1	2.36	0.53
51:DS:42:ASP:C	51:DS:44:LYS:N	2.62	0.53
51:DS:84:GLN:CA	51:DS:105:ALA:HB3	2.38	0.53
52:DT:64:ARG:NH1	52:DT:102:ILE:HD11	2.24	0.53
55:DW:89:ALA:O	55:DW:92:ARG:HD2	2.08	0.53
56:DX:22:ALA:HB1	56:DX:23:GLU:OE2	2.08	0.53
58:DZ:45:ASP:O	58:DZ:48:PHE:N	2.41	0.53
1:AA:295:C:H2'	1:AA:296:U:C6	2.33	0.52
1:AA:676:A:H5''	11:AK:113:PRO:HB2	1.89	0.52
1:AA:826:C:H2'	1:AA:827:U:C6	2.42	0.52
1:AA:1189:C:O3'	3:AC:5:ILE:HD12	2.09	0.52
7:AG:105:VAL:HG12	7:AG:109:ASN:HD22	1.73	0.52
8:AH:86:ILE:CG2	8:AH:133:LEU:HD23	2.34	0.52
13:AM:124:PRO:O	13:AM:126:LYS:N	2.41	0.52
14:AN:19:ARG:O	14:AN:20:ALA:O	2.26	0.52
22:AW:66:U:H2'	22:AW:67:C:C6	2.44	0.52
25:AZ:234:ARG:NE	25:AZ:289:LEU:HD22	2.24	0.52
25:AZ:325:LYS:HG3	25:AZ:331:HIS:HB3	1.90	0.52
36:BA:601:C:O2	36:BA:605:C:C5'	2.56	0.52
36:BA:1053:C:O2'	36:BA:1054:A:H5'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1192:G:H8	36:BA:1192:G:O5'	1.92	0.52
36:BA:1327:C:N4	36:BA:1647:G:N2	2.50	0.52
36:BA:2127:G:C6	36:BA:2128:C:N4	2.76	0.52
37:BB:79:C:H2'	37:BB:80:U:O4'	2.08	0.52
38:BC:75:LEU:CD1	38:BC:113:VAL:HA	2.40	0.52
39:BD:121:PRO:HB3	39:BD:135:PHE:CE2	2.44	0.52
39:BD:147:LEU:CD1	39:BD:183:ARG:NH1	2.45	0.52
39:BD:232:PRO:HG2	39:BD:248:SER:O	2.09	0.52
40:BE:67:PHE:HD2	40:BE:68:ALA:H	1.57	0.52
41:BF:11:VAL:C	41:BF:13:SER:H	2.13	0.52
41:BF:122:LYS:HE3	41:BF:122:LYS:N	2.22	0.52
41:BF:187:VAL:HG12	48:BP:7:ARG:HA	1.90	0.52
43:BH:114:VAL:O	43:BH:114:VAL:HG23	2.08	0.52
46:BN:57:ALA:O	46:BN:58:ASP:O	2.27	0.52
47:BO:2:ILE:HD12	47:BO:6:THR:HG21	1.91	0.52
53:BU:14:HIS:CD2	53:BU:32:PHE:CB	2.89	0.52
53:BU:66:ASN:ND2	53:BU:70:ARG:HB2	2.24	0.52
53:BU:71:GLN:HG2	53:BU:71:GLN:O	2.09	0.52
54:BV:21:ARG:HG2	54:BV:91:TYR:CE2	2.44	0.52
54:BV:39:LEU:HD13	54:BV:39:LEU:N	2.24	0.52
56:BX:3:THR:HA	56:BX:6:ASP:OD2	2.09	0.52
57:BY:50:ARG:CB	57:BY:53:PRO:HG3	2.19	0.52
58:BZ:100:VAL:HB	58:BZ:124:ILE:HG13	1.90	0.52
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	1.91	0.52
1:CA:1157:A:C4	1:CA:1181:G:N2	2.77	0.52
2:CB:43:ASP:OD1	2:CB:45:GLN:HB3	2.09	0.52
2:CB:109:SER:O	2:CB:110:GLN:C	2.47	0.52
3:CC:111:LEU:HD21	3:CC:144:SER:O	2.08	0.52
3:CC:141:VAL:HG11	3:CC:202:ILE:HG23	1.91	0.52
3:CC:165:THR:O	3:CC:165:THR:HG23	2.08	0.52
6:CF:43:LEU:HD22	6:CF:43:LEU:N	2.17	0.52
7:CG:11:GLN:NE2	7:CG:12:LEU:H	2.07	0.52
13:CM:14:ARG:HB2	13:CM:17:VAL:HG23	1.91	0.52
14:CN:47:LEU:O	14:CN:50:LYS:N	2.42	0.52
24:CY:52:A:C2	24:CY:63:G:N1	2.77	0.52
25:CZ:137:LYS:HG2	62:CZ:501:GDP:N1	2.23	0.52
25:CZ:199:ILE:HG22	25:CZ:203:LEU:HD12	1.92	0.52
25:CZ:278:GLN:OE1	25:CZ:278:GLN:HA	2.09	0.52
25:CZ:325:LYS:HG3	25:CZ:331:HIS:HB3	1.91	0.52
28:D2:69:ARG:NH1	36:DA:111:A:H4'	2.24	0.52
29:D3:13:ILE:HD13	36:DA:989:G:C5	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:6:VAL:H	36:DA:2056:G:N2	2.06	0.52
34:D8:21:LYS:HD3	34:D8:48:PHE:CE2	2.43	0.52
34:D8:41:ILE:HG23	34:D8:42:ARG:H	1.74	0.52
36:DA:150:C:O2'	36:DA:151:C:H5'	2.09	0.52
36:DA:425:G:H2'	36:DA:426:C:H6	1.73	0.52
36:DA:534:U:H5'	53:DU:42:ALA:HB1	1.91	0.52
36:DA:814:C:H2'	36:DA:815:C:H6	1.73	0.52
36:DA:849:A:H2'	36:DA:850:C:O4'	2.09	0.52
36:DA:920:G:H2'	36:DA:921:G:H8	1.73	0.52
36:DA:1491:G:C6	36:DA:1500:G:C2	2.97	0.52
36:DA:2392:A:H8	48:DP:60:MET:HA	1.74	0.52
36:DA:2496:C:O2'	36:DA:2497:A:H5'	2.08	0.52
40:DE:132:HIS:HD2	40:DE:135:HIS:CE1	2.27	0.52
41:DF:40:GLN:NE2	41:DF:182:ASN:HB2	2.24	0.52
43:DH:148:ILE:O	43:DH:162:ILE:HG21	2.08	0.52
48:DP:105:LEU:HD12	48:DP:105:LEU:N	2.23	0.52
51:DS:106:ARG:HD2	51:DS:106:ARG:C	2.29	0.52
54:DV:39:LEU:HD13	54:DV:39:LEU:N	2.23	0.52
55:DW:5:ALA:HB3	55:DW:105:VAL:HB	1.91	0.52
57:DY:17:SER:OG	57:DY:18:GLY:N	2.42	0.52
57:DY:17:SER:HB2	57:DY:71:LYS:HD2	1.91	0.52
58:DZ:86:VAL:CG1	58:DZ:87:ASP:H	2.09	0.52
1:AA:192:U:O2'	20:AT:103:GLY:HA2	2.09	0.52
1:AA:446:G:H2'	1:AA:447:G:O4'	2.09	0.52
1:AA:781:A:C3'	1:AA:782:A:H5'	2.39	0.52
1:AA:1530:G:H2'	1:AA:1531:A:O4'	2.09	0.52
8:AH:20:TYR:HA	8:AH:65:TYR:CE2	2.44	0.52
8:AH:92:ARG:HB3	8:AH:94:TYR:HE1	1.74	0.52
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.39	0.52
17:AQ:29:HIS:ND1	17:AQ:32:TYR:N	2.52	0.52
25:AZ:362:VAL:HG11	25:AZ:368:VAL:CG2	2.38	0.52
28:B2:57:ILE:HG22	28:B2:61:LEU:HG	1.91	0.52
31:B5:48:GLU:O	31:B5:49:CYS:CB	2.57	0.52
32:B6:15:GLU:HA	32:B6:49:HIS:ND1	2.24	0.52
32:B6:26:ASN:O	32:B6:27:LYS:CB	2.58	0.52
36:BA:324:A:H61	36:BA:338:G:C2'	2.23	0.52
36:BA:717:G:H2'	36:BA:718:A:C8	2.44	0.52
36:BA:1553:A:N6	36:BA:1555:G:H1'	2.23	0.52
36:BA:1657:C:C2'	36:BA:1658:C:H5'	2.39	0.52
36:BA:1772:G:N2	36:BA:1774:C:H5''	2.24	0.52
36:BA:2007:C:C5'	36:BA:2824:C:H1'	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2029:G:O6	36:BA:2033:A:OP2	2.26	0.52
36:BA:2076:U:OP1	36:BA:2076:U:H6	1.90	0.52
36:BA:2425:A:H5''	36:BA:2427:C:O4'	2.09	0.52
36:BA:2577:A:H5''	36:BA:2578:G:H5'	1.91	0.52
36:BA:2626:C:H6	36:BA:2626:C:O5'	1.92	0.52
36:BA:2673:G:H2'	36:BA:2674:G:C8	2.45	0.52
36:BA:2818:G:O2'	36:BA:2819:G:H5'	2.10	0.52
38:BC:1:PRO:C	38:BC:3:HIS:H	2.13	0.52
39:BD:240:ALA:HB1	39:BD:241:PRO:HD2	1.91	0.52
40:BE:31:CYS:HB3	40:BE:49:LEU:HD12	1.91	0.52
41:BF:111:ALA:O	41:BF:115:ALA:N	2.42	0.52
42:BG:7:LEU:O	42:BG:11:TYR:HB2	2.08	0.52
47:BO:64:ARG:CZ	52:BT:70:VAL:HG21	2.39	0.52
47:BO:75:SER:OG	52:BT:74:ARG:NH1	2.41	0.52
49:BQ:19:GLY:CA	58:BZ:79:ARG:NH2	2.72	0.52
49:BQ:19:GLY:O	49:BQ:20:ALA:HB3	2.09	0.52
50:BR:14:SER:HA	50:BR:17:ARG:CZ	2.39	0.52
50:BR:63:ARG:O	50:BR:66:VAL:HB	2.09	0.52
51:BS:13:ARG:HG2	51:BS:13:ARG:HH11	1.74	0.52
51:BS:84:GLN:HA	51:BS:105:ALA:HB3	1.91	0.52
51:BS:106:ARG:NH2	51:BS:109:GLY:N	2.56	0.52
52:BT:101:PHE:O	52:BT:102:ILE:C	2.48	0.52
53:BU:76:TYR:OH	53:BU:93:LYS:HE3	2.09	0.52
54:BV:38:LEU:HD12	54:BV:57:VAL:HB	1.90	0.52
1:CA:221:C:O2'	1:CA:222:U:H5'	2.09	0.52
1:CA:383:A:OP1	1:CA:454:C:H2'	2.09	0.52
1:CA:711:G:O2'	1:CA:712:A:H5'	2.08	0.52
1:CA:1240:U:H5''	1:CA:1241:G:C8	2.43	0.52
1:CA:1272:G:C2	1:CA:1273:G:H1'	2.43	0.52
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.44	0.52
1:CA:1530:G:H2'	1:CA:1531:A:O4'	2.08	0.52
2:CB:47:THR:HG23	2:CB:202:PRO:HG2	1.91	0.52
3:CC:60:ALA:H	3:CC:63:ASN:CG	2.12	0.52
4:CD:28:SER:CB	4:CD:29:PRO:CD	2.85	0.52
5:CE:41:VAL:O	5:CE:66:MET:HA	2.09	0.52
11:CK:21:ILE:HD12	11:CK:21:ILE:N	2.25	0.52
13:CM:81:LEU:N	13:CM:81:LEU:CD2	2.73	0.52
19:CS:49:ILE:O	19:CS:60:VAL:O	2.28	0.52
22:CW:25:C:H2'	22:CW:26:A:H8	1.74	0.52
25:CZ:24:LYS:HE3	25:CZ:84:GLY:HA3	1.92	0.52
25:CZ:316:PHE:C	25:CZ:371:THR:HG23	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D3:15:TYR:CD2	29:D3:19:GLN:NE2	2.74	0.52
34:D8:37:SER:O	34:D8:41:ILE:HG22	2.09	0.52
36:DA:272(J):C:H2'	36:DA:274:G:H5''	1.92	0.52
36:DA:310:A:H2	36:DA:330:A:HO2'	1.56	0.52
36:DA:448:U:H1'	41:DF:84:VAL:CG1	2.39	0.52
36:DA:600:G:C6	36:DA:601:C:N4	2.77	0.52
36:DA:972:G:H3'	36:DA:973:A:H2'	1.91	0.52
36:DA:983:A:H2'	36:DA:984:A:O4'	2.08	0.52
36:DA:1245:G:H5'	41:DF:34:TRP:HZ2	1.74	0.52
36:DA:1328:G:H8	36:DA:1328:G:O5'	1.92	0.52
36:DA:1590:U:C3'	36:DA:1591:G:H5''	2.40	0.52
36:DA:1747(A):G:C2'	36:DA:1748:G:H5''	2.39	0.52
36:DA:1861:G:H1	36:DA:1881:C:H42	1.57	0.52
36:DA:2107:C:C2	36:DA:2108:C:C5	2.97	0.52
39:DD:136:ILE:N	39:DD:136:ILE:CD1	2.72	0.52
44:DJ:30:UNK:O	44:DJ:31:UNK:CB	2.58	0.52
46:DN:55:VAL:HG22	46:DN:56:ASN:N	2.24	0.52
49:DQ:86:GLY:O	49:DQ:87:LYS:HB2	2.10	0.52
50:DR:98:LEU:O	50:DR:113:LEU:N	2.40	0.52
51:DS:98:VAL:O	51:DS:100:ALA:N	2.43	0.52
51:DS:106:ARG:HH11	51:DS:106:ARG:HB3	1.73	0.52
52:DT:101:PHE:O	52:DT:103:ARG:N	2.42	0.52
53:DU:14:HIS:CD2	53:DU:32:PHE:CB	2.90	0.52
58:DZ:26:GLY:HA2	58:DZ:86:VAL:H	1.74	0.52
1:AA:218:C:H5'	1:AA:470:C:N4	2.24	0.52
1:AA:668:G:H5'	15:AO:49:ASP:HA	1.90	0.52
1:AA:762:C:H2'	1:AA:763:G:H8	1.73	0.52
1:AA:1082:G:H2'	1:AA:1083:U:O4'	2.09	0.52
1:AA:1327:C:H2'	1:AA:1328:C:C6	2.43	0.52
1:AA:1433:A:N6	1:AA:1434:A:N1	2.57	0.52
2:AB:55:PHE:HD1	2:AB:221:LEU:HG	1.74	0.52
2:AB:155:LEU:HD21	2:AB:159:PRO:HG3	1.92	0.52
2:AB:170:GLU:O	2:AB:173:ALA:N	2.42	0.52
7:AG:11:GLN:NE2	7:AG:12:LEU:H	2.08	0.52
7:AG:31:MET:CG	7:AG:32:ARG:N	2.69	0.52
7:AG:89:MET:O	7:AG:90:GLU:O	2.26	0.52
13:AM:32:GLU:C	13:AM:34:LEU:H	2.11	0.52
13:AM:90:LEU:HA	13:AM:93:ARG:HB2	1.91	0.52
17:AQ:29:HIS:CE1	17:AQ:31:LEU:N	2.76	0.52
20:AT:45:GLN:CB	20:AT:91:LEU:HD13	2.36	0.52
27:B1:40:ARG:CG	27:B1:41:ARG:N	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:53:VAL:O	27:B1:55:GLY:N	2.38	0.52
28:B2:35:LEU:HD21	28:B2:50:ILE:HG13	1.89	0.52
28:B2:39:ALA:CB	28:B2:45:SER:HA	2.39	0.52
29:B3:7:LYS:N	29:B3:54:VAL:HG13	2.24	0.52
33:B7:1:MET:N	36:BA:1619:G:O2'	2.42	0.52
36:BA:189:G:H2'	36:BA:205:G:H22	1.73	0.52
36:BA:360:G:H2'	36:BA:361:G:O4'	2.09	0.52
36:BA:1215:G:O2'	36:BA:1216:G:H5'	2.08	0.52
36:BA:1335:U:OP1	56:BX:65:ARG:NH2	2.43	0.52
36:BA:1578:U:H2'	36:BA:1578:U:O2	2.09	0.52
36:BA:1690:A:H2'	36:BA:1691:C:C5'	2.38	0.52
36:BA:1741:A:H3'	36:BA:1742:G:C8	2.45	0.52
36:BA:1785:A:P	36:BA:1982:C:H5'	2.48	0.52
36:BA:1792:G:OP2	39:BD:206:LEU:HD12	2.09	0.52
36:BA:1853:A:N6	36:BA:1889:A:C8	2.78	0.52
36:BA:2105:C:O2'	36:BA:2106:G:H5'	2.09	0.52
36:BA:2111:C:H2'	36:BA:2112:G:C5'	2.39	0.52
36:BA:2235:G:H2'	36:BA:2236:C:H6	1.72	0.52
36:BA:2346:A:H5'	36:BA:2383:G:O4'	2.09	0.52
36:BA:2457:U:C2'	36:BA:2458:G:H5'	2.39	0.52
38:BC:28:LEU:HD23	38:BC:28:LEU:C	2.30	0.52
40:BE:166:THR:C	40:BE:168:MET:H	2.11	0.52
42:BG:168:GLU:C	42:BG:170:ARG:N	2.63	0.52
52:BT:79:HIS:O	52:BT:80:SER:HB3	2.09	0.52
52:BT:134:GLU:O	52:BT:135:ALA:HB3	2.07	0.52
53:BU:92:ARG:HH22	54:BV:10:LYS:CG	2.22	0.52
1:CA:191:G:H2'	1:CA:192:U:C6	2.44	0.52
1:CA:386:C:O2'	1:CA:387:U:H5'	2.08	0.52
1:CA:401:C:H1'	1:CA:622:A:H1'	1.90	0.52
1:CA:599:C:H2'	1:CA:600:C:C6	2.43	0.52
1:CA:1440:C:C1'	1:CA:1462:G:H22	2.21	0.52
5:CE:41:VAL:HG11	5:CE:113:ALA:HA	1.91	0.52
9:CI:10:ARG:HG3	9:CI:75:ASP:CB	2.38	0.52
9:CI:118:LYS:O	9:CI:119:ALA:HB3	2.09	0.52
10:CJ:6:ILE:HA	10:CJ:97:GLU:O	2.08	0.52
12:CL:7:ILE:H	12:CL:7:ILE:HD12	1.74	0.52
12:CL:28:LYS:O	12:CL:29:GLY:C	2.48	0.52
12:CL:53:ARG:HD2	12:CL:53:ARG:H	1.74	0.52
12:CL:62:SER:O	12:CL:64:TYR:N	2.42	0.52
13:CM:77:ASN:O	13:CM:80:ARG:HB3	2.10	0.52
14:CN:9:LYS:HG2	14:CN:9:LYS:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:6:LYS:C	19:CS:7:LYS:HE3	2.29	0.52
25:CZ:152:MET:CE	25:CZ:156:ASP:HB2	2.39	0.52
25:CZ:155:ARG:HH12	25:CZ:168:VAL:H	1.58	0.52
27:D1:16:ASN:HD21	27:D1:37:ILE:CG2	2.22	0.52
36:DA:145:G:H3'	36:DA:146:G:H5''	1.89	0.52
36:DA:360:G:O2'	36:DA:361:G:H5'	2.09	0.52
36:DA:802:A:H2'	36:DA:803:U:H6	1.72	0.52
36:DA:1137:G:H2'	36:DA:1138:G:H8	1.73	0.52
36:DA:1327:C:N4	36:DA:1647:G:N2	2.49	0.52
36:DA:1485:G:H2'	36:DA:1486:A:O4'	2.10	0.52
36:DA:1528:A:O2'	36:DA:1528(A):A:O5'	2.26	0.52
36:DA:1542:A:H8	36:DA:1542:A:H3'	1.75	0.52
36:DA:1784:A:H4'	36:DA:1785:A:O5'	2.10	0.52
36:DA:1834:U:H2'	36:DA:1834:U:O2	2.10	0.52
36:DA:2329:G:H2'	36:DA:2330:G:C8	2.44	0.52
36:DA:2593:U:H2'	36:DA:2594:C:C6	2.44	0.52
36:DA:2756:U:C1'	36:DA:2757:A:H5''	2.39	0.52
36:DA:2833:G:OP1	36:DA:2833:G:H8	1.91	0.52
39:DD:23:GLU:OE1	39:DD:23:GLU:HA	2.08	0.52
39:DD:24:ILE:HG23	39:DD:25:THR:H	1.74	0.52
39:DD:28:GLU:N	39:DD:28:GLU:OE2	2.42	0.52
40:DE:169:ASN:HD22	40:DE:169:ASN:C	2.05	0.52
41:DF:6:VAL:HG12	41:DF:7:TYR:N	2.15	0.52
41:DF:9:ILE:HA	41:DF:14:PRO:O	2.10	0.52
41:DF:122:LYS:HB3	41:DF:191:ARG:HG3	1.91	0.52
41:DF:170:LEU:O	41:DF:173:VAL:HB	2.08	0.52
45:DK:100:UNK:C	45:DK:136:UNK:HA	2.39	0.52
48:DP:59:LEU:C	48:DP:61:ARG:N	2.62	0.52
51:DS:14:VAL:C	51:DS:15:ARG:HG3	2.30	0.52
52:DT:28:VAL:HG11	52:DT:46:GLU:OE1	2.09	0.52
52:DT:50:ILE:HA	52:DT:99:LEU:CD1	2.39	0.52
54:DV:13:ARG:HG3	54:DV:13:ARG:HH11	1.74	0.52
1:AA:192:U:H1'	20:AT:103:GLY:O	2.10	0.52
1:AA:329:A:H2'	1:AA:332:G:O6	2.08	0.52
1:AA:492:G:N2	1:AA:493:G:H1'	2.23	0.52
1:AA:628:G:O2'	1:AA:629:G:H5'	2.08	0.52
1:AA:790:A:H5'	22:AV:38:A:O3'	2.10	0.52
1:AA:889:A:H4'	1:AA:890:G:OP1	2.09	0.52
1:AA:1255:G:O2'	1:AA:1258:G:H1'	2.09	0.52
1:AA:1401:G:O5'	1:AA:1401:G:C8	2.62	0.52
1:AA:1477:C:H2'	1:AA:1478:C:C6	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:26:PRO:C	2:AB:28:PHE:H	2.12	0.52
2:AB:61:LEU:HD21	2:AB:161:ALA:HB3	1.90	0.52
3:AC:32:LEU:HD22	3:AC:59:ARG:CZ	2.39	0.52
5:AE:41:VAL:O	5:AE:66:MET:HA	2.10	0.52
8:AH:113:SER:O	8:AH:131:GLY:HA3	2.10	0.52
9:AI:65:VAL:HG22	9:AI:66:ARG:N	2.23	0.52
16:AP:19:ILE:HB	16:AP:37:GLY:O	2.10	0.52
19:AS:52:TYR:O	19:AS:53:ASN:CB	2.56	0.52
20:AT:89:ARG:HD2	20:AT:104:LEU:HD11	1.92	0.52
22:AV:56:C:H1'	42:BG:76:SER:CB	2.39	0.52
22:AW:74:C:C5	22:AW:75:C:C4	2.97	0.52
26:B0:51:VAL:HG21	26:B0:79:VAL:O	2.09	0.52
27:B1:71:TYR:O	27:B1:74:VAL:N	2.42	0.52
36:BA:319:C:H2'	36:BA:320:A:C8	2.44	0.52
36:BA:415:A:N1	36:BA:2409:G:C6	2.77	0.52
36:BA:500:G:N1	36:BA:503:A:OP2	2.42	0.52
36:BA:600:G:C6	36:BA:601:C:N4	2.77	0.52
36:BA:654(A):G:H5'	36:BA:654(B):C:OP2	2.08	0.52
36:BA:716:A:C3'	36:BA:717:G:H5''	2.40	0.52
36:BA:1027:A:O2'	36:BA:1028:A:H5'	2.10	0.52
36:BA:1376:C:C2'	36:BA:1377:G:H5'	2.40	0.52
36:BA:1416:G:H1'	36:BA:1417:C:C6	2.45	0.52
36:BA:1665:A:C3'	36:BA:1666:G:C5'	2.85	0.52
36:BA:1668:A:C2	36:BA:1670:C:N3	2.77	0.52
36:BA:2111:C:H2'	36:BA:2112:G:H5''	1.90	0.52
36:BA:2331:G:H2'	36:BA:2332:U:H6	1.75	0.52
36:BA:2464:C:O2'	36:BA:2465:C:H6	1.85	0.52
36:BA:2628:C:H5'	36:BA:2781:A:C6	2.44	0.52
37:BB:105:A:H4'	58:BZ:89:PHE:CD2	2.44	0.52
38:BC:51:PRO:HB2	38:BC:167:LYS:O	2.09	0.52
39:BD:30:GLU:HB3	39:BD:35:LYS:HG3	1.90	0.52
42:BG:83:ARG:O	42:BG:85:GLY:N	2.43	0.52
46:BN:75:TYR:HB2	46:BN:82:LEU:HD13	1.91	0.52
48:BP:30:THR:CG2	48:BP:31:ALA:N	2.72	0.52
49:BQ:44:ALA:HA	49:BQ:47:ILE:CD1	2.35	0.52
50:BR:96:ARG:NH1	50:BR:96:ARG:HB2	2.24	0.52
56:BX:12:VAL:CG1	56:BX:27:THR:H	2.22	0.52
58:BZ:61:LEU:C	58:BZ:63:ASP:N	2.58	0.52
58:BZ:108:PRO:O	58:BZ:111:VAL:HG23	2.09	0.52
1:CA:390:C:H2'	1:CA:391:G:H8	1.74	0.52
1:CA:536:C:O5'	1:CA:536:C:H6	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1415:G:H2'	1:CA:1416:G:O4'	2.08	0.52
3:CC:32:LEU:HD22	3:CC:59:ARG:CZ	2.40	0.52
8:CH:97:VAL:HA	8:CH:100:ILE:HG13	1.92	0.52
10:CJ:16:LEU:HD13	10:CJ:16:LEU:C	2.29	0.52
10:CJ:58:ASP:O	10:CJ:59:SER:C	2.47	0.52
14:CN:21:TYR:N	14:CN:21:TYR:CD1	2.78	0.52
16:CP:44:THR:O	16:CP:45:THR:CB	2.57	0.52
18:CR:50:ILE:HD11	18:CR:74:ARG:CZ	2.39	0.52
20:CT:89:ARG:C	20:CT:91:LEU:H	2.12	0.52
20:CT:94:ALA:O	20:CT:95:ALA:CB	2.57	0.52
22:CV:54:U:H2'	22:CV:55:U:H5'	1.92	0.52
22:CW:38:A:C3'	22:CW:39:U:H5''	2.37	0.52
25:CZ:223:MET:HB2	25:CZ:242:ILE:HA	1.91	0.52
26:D0:32:ARG:O	26:D0:35:ASN:OD1	2.27	0.52
27:D1:63:ALA:HB3	27:D1:66:HIS:HB2	1.91	0.52
27:D1:92:LYS:HD2	27:D1:92:LYS:O	2.10	0.52
33:D7:1:MET:SD	36:DA:752:A:H5''	2.50	0.52
36:DA:275:G:C2	36:DA:276:A:C2	2.97	0.52
36:DA:601:C:O2	36:DA:605:C:C5'	2.58	0.52
36:DA:1052:C:H2'	36:DA:1053:C:C5	2.44	0.52
36:DA:1255:U:C5	41:DF:73:ALA:HA	2.43	0.52
36:DA:1301:A:HO2'	36:DA:1302:A:H2'	1.72	0.52
36:DA:1567:A:OP2	39:DD:84:TYR:OH	2.26	0.52
36:DA:2331:G:H2'	36:DA:2332:U:H6	1.74	0.52
37:DB:42:C:O2'	37:DB:43:C:H6	1.89	0.52
41:DF:33:LEU:CD1	41:DF:113:ALA:HB2	2.39	0.52
42:DG:72:ARG:O	42:DG:73:ALA:O	2.28	0.52
46:DN:3:THR:CG2	46:DN:4:TYR:N	2.72	0.52
51:DS:67:ARG:HB2	51:DS:71:ARG:HH11	1.74	0.52
54:DV:21:ARG:HG2	54:DV:91:TYR:CE2	2.44	0.52
54:DV:23:GLU:O	54:DV:24:LYS:O	2.26	0.52
54:DV:78:LYS:O	54:DV:79:VAL:HG23	2.09	0.52
1:AA:261:U:O2	1:AA:263:A:C8	2.63	0.52
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.44	0.52
1:AA:1423:G:C6	1:AA:1424:C:N4	2.78	0.52
4:AD:119:GLN:NE2	4:AD:123:HIS:NE2	2.54	0.52
5:AE:102:ALA:CB	5:AE:106:PRO:HG2	2.32	0.52
10:AJ:8:LEU:CG	10:AJ:96:ILE:HG22	2.38	0.52
13:AM:79:LYS:HA	13:AM:82:MET:HB3	1.91	0.52
16:AP:20:VAL:HG22	16:AP:21:VAL:H	1.75	0.52
17:AQ:21:VAL:O	17:AQ:41:LYS:HA	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:48:LYS:HB3	20:AT:51:GLU:HG3	1.91	0.52
25:AZ:9:LYS:HB3	25:AZ:75:ARG:HA	1.91	0.52
25:AZ:273:HIS:O	25:AZ:275:LYS:N	2.41	0.52
29:B3:4:LEU:N	29:B3:37:LEU:O	2.30	0.52
33:B7:19:ARG:HB3	36:BA:125:G:H5'	1.92	0.52
33:B7:22:MET:O	33:B7:28:ARG:NH1	2.42	0.52
36:BA:64:A:H2'	36:BA:65:C:O4'	2.09	0.52
36:BA:85:G:O5'	57:BY:30:VAL:HB	2.10	0.52
36:BA:664:C:H4'	36:BA:941:A:OP1	2.10	0.52
36:BA:709:U:H3	36:BA:722:A:H61	1.57	0.52
36:BA:966:G:H1'	36:BA:2267:A:H62	1.74	0.52
36:BA:978:G:H1	36:BA:985:C:H42	1.56	0.52
36:BA:996:A:H4'	53:BU:92:ARG:CG	2.39	0.52
36:BA:1511:C:H2'	36:BA:1512:U:C6	2.44	0.52
36:BA:1826:G:H4'	39:BD:242:ARG:NH2	2.24	0.52
36:BA:2011:U:OP2	55:BW:16:LYS:HE3	2.09	0.52
38:BC:23:ASP:CB	38:BC:27:ARG:NH1	2.65	0.52
39:BD:229:VAL:HG23	39:BD:230:ASP:H	1.74	0.52
39:BD:233:HIS:O	39:BD:234:GLY:O	2.27	0.52
41:BF:17:ARG:HG3	41:BF:17:ARG:NH1	2.24	0.52
41:BF:20:LEU:HD12	41:BF:199:TRP:CH2	2.40	0.52
41:BF:28:ILE:HD13	41:BF:28:ILE:N	2.23	0.52
42:BG:16:ARG:CD	42:BG:31:VAL:HG21	2.39	0.52
45:BK:90:UNK:HA	58:BZ:112:ARG:NH2	2.24	0.52
49:BQ:27:VAL:O	49:BQ:28:ALA:HB3	2.09	0.52
50:BR:28:LEU:HB2	50:BR:34:ILE:HG13	1.91	0.52
57:BY:8:LYS:H	57:BY:8:LYS:CD	1.97	0.52
58:BZ:28:MET:HG3	58:BZ:37:VAL:HG11	1.91	0.52
58:BZ:51:ALA:HB3	58:BZ:57:ILE:HD11	1.90	0.52
1:CA:172:A:C8	1:CA:174:C:C4	2.97	0.52
1:CA:267:C:H2'	1:CA:268:C:C6	2.37	0.52
1:CA:708:C:O2'	1:CA:709:G:H5'	2.09	0.52
1:CA:777:A:H2'	1:CA:778:G:H8	1.75	0.52
1:CA:927:G:H5'	1:CA:927:G:C8	2.43	0.52
1:CA:1018:C:H2'	1:CA:1019:C:C6	2.44	0.52
1:CA:1327:C:OP2	21:CU:12:LYS:NZ	2.39	0.52
1:CA:1431:C:C2'	1:CA:1432:G:H5'	2.38	0.52
9:CI:95:LYS:C	9:CI:98:PRO:HD2	2.30	0.52
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.09	0.52
17:CQ:57:VAL:HG12	17:CQ:76:LEU:HA	1.92	0.52
18:CR:25:THR:HG22	18:CR:25:THR:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:73:ALA:HB1	18:CR:79:LEU:HD12	1.92	0.52
25:CZ:19:HIS:HA	25:CZ:115:GLN:CB	2.40	0.52
25:CZ:31:LEU:HB3	25:CZ:70:TYR:CE2	2.45	0.52
25:CZ:226:GLU:CG	25:CZ:240:GLY:HA2	2.38	0.52
26:D0:5:LYS:NZ	26:D0:5:LYS:HB3	2.25	0.52
30:D4:18:CYS:SG	30:D4:19:GLY:N	2.83	0.52
31:D5:16:ARG:HD3	36:DA:1263:U:H5''	1.90	0.52
32:D6:30:THR:O	32:D6:31:PRO:C	2.47	0.52
32:D6:42:TRP:CE3	32:D6:42:TRP:HA	2.45	0.52
36:DA:306:U:C4	36:DA:307:G:C6	2.97	0.52
36:DA:864:G:N2	36:DA:913:U:C2	2.78	0.52
36:DA:875:G:H2'	36:DA:876:C:O4'	2.10	0.52
36:DA:1130:U:O2'	36:DA:1131:G:H2'	2.09	0.52
36:DA:1350:C:H2'	36:DA:1351:C:C6	2.39	0.52
36:DA:1370:C:H3'	36:DA:1371:G:C8	2.35	0.52
36:DA:1506:C:H2'	36:DA:1506:C:O2	2.09	0.52
36:DA:1539:G:H2'	36:DA:1540:U:O4'	2.10	0.52
36:DA:1674:G:H1'	36:DA:1676:A:H62	1.75	0.52
36:DA:1747(A):G:H3'	36:DA:1748:G:H5''	1.91	0.52
36:DA:2316:C:H2'	36:DA:2317:C:C6	2.44	0.52
36:DA:2453:A:O2'	36:DA:2454:G:H5'	2.09	0.52
36:DA:2469:A:H1'	36:DA:2482:G:C6	2.45	0.52
36:DA:2623:G:O5'	36:DA:2826:A:H1'	2.09	0.52
40:DE:103:ASP:OD1	40:DE:201:THR:HA	2.09	0.52
42:DG:85:GLY:CA	42:DG:87:PRO:HD3	2.39	0.52
42:DG:112:PRO:C	42:DG:114:ILE:N	2.63	0.52
42:DG:129:GLY:O	42:DG:130:ASN:CB	2.58	0.52
46:DN:62:VAL:HG23	46:DN:66:LYS:HD2	1.91	0.52
46:DN:126:PRO:O	46:DN:127:ASP:CB	2.58	0.52
47:DO:7:TYR:HA	47:DO:19:ILE:O	2.10	0.52
47:DO:17:ARG:O	47:DO:18:LYS:CB	2.57	0.52
47:DO:52:VAL:C	47:DO:53:LYS:HD2	2.29	0.52
47:DO:71:ARG:NH2	47:DO:77:ILE:HG21	2.24	0.52
49:DQ:34:LEU:CD1	49:DQ:129:THR:HB	2.35	0.52
50:DR:96:ARG:NH1	50:DR:96:ARG:HB2	2.23	0.52
1:AA:505:G:H2'	1:AA:506:G:H8	1.73	0.52
1:AA:538:G:H5''	12:AL:114:LYS:HB2	1.92	0.52
1:AA:665:A:N3	1:AA:732:C:H2'	2.24	0.52
1:AA:668:G:O2'	15:AO:46:HIS:HB3	2.10	0.52
1:AA:1495:U:H2'	1:AA:1496:C:H6	1.74	0.52
3:AC:113:ALA:O	3:AC:115:LEU:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:136:MET:O	5:AE:139:LEU:N	2.42	0.52
6:AF:10:LEU:HD13	6:AF:59:TYR:CD2	2.45	0.52
6:AF:43:LEU:HD22	6:AF:43:LEU:N	2.17	0.52
7:AG:95:ARG:O	7:AG:96:GLN:C	2.47	0.52
10:AJ:6:ILE:HA	10:AJ:97:GLU:O	2.08	0.52
12:AL:104:VAL:HG12	12:AL:105:TYR:CD2	2.45	0.52
13:AM:19:LEU:H	13:AM:19:LEU:HD22	1.75	0.52
14:AN:57:ARG:CB	14:AN:57:ARG:NH1	2.61	0.52
22:AW:14:A:H2'	22:AW:15:G:O4'	2.10	0.52
24:AY:48:C:H2'	24:AY:59:A:C1'	2.31	0.52
32:B6:48:VAL:O	32:B6:49:HIS:CG	2.62	0.52
36:BA:141:A:H8	36:BA:1408:C:O2'	1.92	0.52
36:BA:324:A:H2'	36:BA:325:G:O4'	2.09	0.52
36:BA:483:A:C4'	57:BY:49:VAL:HG22	2.37	0.52
36:BA:667:U:H3'	36:BA:668:G:H5''	1.91	0.52
36:BA:992:C:C2	36:BA:1163:G:N2	2.78	0.52
36:BA:1467:C:H42	36:BA:1525:G:H1	1.58	0.52
36:BA:2086:U:OP2	39:BD:263:ARG:NH2	2.37	0.52
36:BA:2199:A:C5'	36:BA:2200:C:OP2	2.58	0.52
36:BA:2228:G:H2'	36:BA:2229:C:C6	2.45	0.52
36:BA:2243:U:H2'	36:BA:2244:U:H6	1.70	0.52
36:BA:2373:G:H2'	36:BA:2374:C:C6	2.45	0.52
36:BA:2532:G:H2'	36:BA:2533:A:C8	2.45	0.52
36:BA:2533:A:H2'	36:BA:2534:A:H5'	1.91	0.52
36:BA:2758:A:O2'	36:BA:2759:G:H8	1.92	0.52
37:BB:5:C:H2'	37:BB:6:C:C6	2.45	0.52
38:BC:178:ALA:O	38:BC:180:PHE:N	2.42	0.52
39:BD:4:LYS:HB2	39:BD:18:VAL:HG12	1.92	0.52
43:BH:156:ALA:C	43:BH:158:HIS:H	2.13	0.52
50:BR:20:LEU:O	50:BR:24:GLN:HG3	2.10	0.52
58:BZ:15:PRO:HA	58:BZ:18:LEU:HD22	1.91	0.52
58:BZ:26:GLY:O	58:BZ:27:VAL:HB	2.09	0.52
58:BZ:102:LEU:HD11	58:BZ:124:ILE:CG2	2.39	0.52
58:BZ:166:SER:OG	58:BZ:168:GLU:N	2.42	0.52
1:CA:277:C:O2'	1:CA:278:G:H5'	2.10	0.52
1:CA:551:U:O2'	1:CA:552:U:H5'	2.09	0.52
1:CA:756:C:O2'	1:CA:878:G:N2	2.43	0.52
2:CB:61:LEU:HD21	2:CB:161:ALA:HB3	1.92	0.52
2:CB:130:ARG:HE	2:CB:131:PRO:HD2	1.74	0.52
2:CB:174:VAL:O	2:CB:177:ALA:HB3	2.10	0.52
3:CC:13:GLY:O	3:CC:14:ILE:HG22	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:122:ARG:HH11	4:CD:122:ARG:HA	1.73	0.52
5:CE:76:ILE:CG1	5:CE:77:PRO:HD2	2.40	0.52
20:CT:81:LYS:O	20:CT:83:ARG:N	2.43	0.52
22:CV:40:C:H2'	22:CV:41:C:C6	2.43	0.52
25:CZ:97:ALA:HA	25:CZ:126:VAL:CG1	2.39	0.52
25:CZ:171:ILE:CG2	25:CZ:172:ARG:N	2.73	0.52
25:CZ:314:THR:HG22	25:CZ:377:PRO:HA	1.91	0.52
36:DA:201:C:C2'	36:DA:202:U:H5'	2.40	0.52
36:DA:208:C:H2'	36:DA:209:C:H6	1.74	0.52
36:DA:499:U:H1'	57:DY:47:LYS:NZ	2.25	0.52
36:DA:658:C:H2'	36:DA:659:C:C6	2.44	0.52
36:DA:752:A:O2'	36:DA:753:C:OP2	2.26	0.52
36:DA:907:U:H4'	49:DQ:101:ARG:NH1	2.22	0.52
36:DA:922:U:H2'	36:DA:923:C:C6	2.45	0.52
36:DA:1053:C:O2'	36:DA:1054:A:H5'	2.10	0.52
36:DA:1184:G:H2'	36:DA:1185:C:H5'	1.90	0.52
36:DA:1487:G:N2	36:DA:1488:G:H1'	2.25	0.52
36:DA:1576:U:H2'	36:DA:1577:C:H6	1.72	0.52
36:DA:1763:G:H2'	36:DA:1764:G:C5'	2.38	0.52
36:DA:1798:U:C2	36:DA:1822:G:C2	2.98	0.52
36:DA:1856:G:C2'	36:DA:1857:G:H5'	2.40	0.52
36:DA:1914:C:H2'	36:DA:1915:U:O4'	2.09	0.52
36:DA:2094:G:N2	36:DA:2196:C:H1'	2.24	0.52
36:DA:2224:G:H4'	36:DA:2226:C:C2	2.44	0.52
36:DA:2535:G:C2	36:DA:2536:G:C8	2.98	0.52
36:DA:2591:C:OP2	39:DD:239:ARG:HB3	2.09	0.52
38:DC:6:ARG:HD2	38:DC:34:THR:HG22	1.90	0.52
38:DC:23:ASP:CB	38:DC:27:ARG:NH1	2.67	0.52
38:DC:86:ALA:HB3	38:DC:94:VAL:CG1	2.39	0.52
38:DC:166:ASP:OD2	38:DC:168:THR:HG23	2.09	0.52
39:DD:138:VAL:O	39:DD:138:VAL:HG13	2.08	0.52
39:DD:183:ARG:HG3	39:DD:269:PHE:O	2.10	0.52
40:DE:82:ARG:O	40:DE:83:ASP:C	2.46	0.52
41:DF:157:VAL:HG22	41:DF:194:MET:HG2	1.91	0.52
41:DF:157:VAL:HG22	41:DF:194:MET:HA	1.92	0.52
42:DG:54:GLU:C	42:DG:57:ALA:H	2.13	0.52
42:DG:112:PRO:HG2	42:DG:113:ARG:N	2.22	0.52
46:DN:24:GLY:C	46:DN:26:LEU:N	2.62	0.52
48:DP:86:LYS:HB3	48:DP:86:LYS:HZ2	1.75	0.52
52:DT:65:LYS:HG3	52:DT:66:VAL:N	2.25	0.52
52:DT:89:VAL:HB	52:DT:91:ARG:NE	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:92:ARG:HH22	54:DV:10:LYS:CG	2.22	0.52
55:DW:76:VAL:HB	55:DW:103:ILE:HG23	1.91	0.52
57:DY:2:ARG:C	57:DY:4:LYS:N	2.63	0.52
1:AA:404:U:H2'	1:AA:405:U:C6	2.44	0.52
1:AA:586:C:H1'	1:AA:878:G:O2'	2.10	0.52
1:AA:620:C:H2'	1:AA:621:A:C8	2.45	0.52
1:AA:777:A:H2'	1:AA:778:G:C8	2.45	0.52
1:AA:781:A:C5	1:AA:802:A:C2	2.98	0.52
1:AA:1004:A:N6	1:AA:1035:A:C5	2.78	0.52
1:AA:1054:C:C6	1:AA:1196:U:C5	2.98	0.52
1:AA:1422:G:N3	1:AA:1423:G:C8	2.78	0.52
1:AA:1431:C:C2'	1:AA:1432:G:H5'	2.39	0.52
1:AA:1456:G:N3	1:AA:1456:G:H3'	2.24	0.52
2:AB:8:LYS:HZ3	2:AB:217:ARG:CZ	2.21	0.52
2:AB:25:ASN:O	2:AB:27:LYS:N	2.43	0.52
2:AB:111:ARG:HE	2:AB:145:LEU:HD21	1.75	0.52
3:AC:111:LEU:HD21	3:AC:144:SER:O	2.10	0.52
4:AD:114:ARG:HG3	4:AD:114:ARG:NH1	2.24	0.52
12:AL:86:ARG:CG	12:AL:87:GLY:H	2.15	0.52
13:AM:93:ARG:HG3	36:BA:888:C:OP1	2.10	0.52
14:AN:7:ILE:HG13	14:AN:8:GLU:H	1.73	0.52
14:AN:12:ARG:HB3	14:AN:14:PRO:HD2	1.92	0.52
25:AZ:27:LEU:HD12	25:AZ:27:LEU:O	2.10	0.52
25:AZ:321:TYR:HD1	25:AZ:367:ASN:ND2	2.08	0.52
27:B1:17:SER:O	27:B1:18:ILE:HG13	2.09	0.52
36:BA:19:C:O2'	36:BA:20:C:H5'	2.09	0.52
36:BA:303:U:H2'	36:BA:304:G:C8	2.44	0.52
36:BA:448:U:H1'	41:BF:84:VAL:HG11	1.92	0.52
36:BA:499:U:H1'	57:BY:47:LYS:NZ	2.25	0.52
36:BA:565:C:H2'	36:BA:566:U:H6	1.74	0.52
36:BA:588:U:H1'	41:BF:90:PHE:CD2	2.45	0.52
36:BA:614(A):U:H4'	36:BA:614(B):G:H5''	1.92	0.52
36:BA:662:G:H5'	48:BP:18:ARG:C	2.30	0.52
36:BA:1131:G:C8	36:BA:2025:C:H4'	2.45	0.52
36:BA:1170:G:OP2	36:BA:1170:G:H8	1.93	0.52
36:BA:1202:C:H2'	36:BA:1203:G:C5'	2.34	0.52
36:BA:1278:A:O2'	36:BA:1279:G:H5'	2.10	0.52
36:BA:1328:G:H4'	36:BA:1329:U:H5	1.75	0.52
36:BA:1451:C:OP2	36:BA:1451:C:H6	1.91	0.52
36:BA:1682:G:H2'	36:BA:1683:C:C6	2.45	0.52
36:BA:1720:U:H2'	36:BA:1721:G:H5''	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2221:G:C6	36:BA:2222:G:C6	2.97	0.52
36:BA:2491:U:H5'	36:BA:2570:G:H5''	1.91	0.52
36:BA:2654:A:O2'	36:BA:2655:G:H4'	2.10	0.52
40:BE:8:LYS:HB2	40:BE:196:VAL:HG11	1.92	0.52
40:BE:154:LYS:O	40:BE:155:LYS:O	2.27	0.52
42:BG:13:GLU:HG3	42:BG:14:GLU:HG3	1.92	0.52
43:BH:127:GLU:HB2	43:BH:130:ARG:HB2	1.91	0.52
48:BP:98:GLU:O	48:BP:101:VAL:HG22	2.09	0.52
49:BQ:48:GLU:HG3	49:BQ:51:ARG:HG2	1.92	0.52
51:BS:79:ALA:O	51:BS:80:LEU:HD23	2.10	0.52
55:BW:39:THR:O	55:BW:44:ALA:HB2	2.10	0.52
1:CA:80:G:H3'	1:CA:81:U:H5'	1.91	0.52
1:CA:157:G:O2'	1:CA:158:G:H5'	2.10	0.52
1:CA:347:G:N2	1:CA:348:G:C4	2.78	0.52
1:CA:734:G:C2	1:CA:735:C:C2	2.98	0.52
1:CA:1354:C:O2'	1:CA:1355:G:H5'	2.10	0.52
1:CA:1363(A):A:H1'	1:CA:1365:G:N7	2.25	0.52
5:CE:36:ASP:O	5:CE:37:ARG:C	2.47	0.52
5:CE:116:THR:O	5:CE:116:THR:HG22	2.08	0.52
6:CF:7:ASN:C	6:CF:8:ILE:HG13	2.29	0.52
9:CI:4:TYR:CD2	9:CI:88:TYR:HB2	2.45	0.52
10:CJ:67:THR:CG2	10:CJ:67:THR:O	2.57	0.52
12:CL:86:ARG:HG2	12:CL:87:GLY:N	2.22	0.52
12:CL:126:LYS:HG3	12:CL:128:ALA:H	1.75	0.52
15:CO:9:GLN:O	15:CO:10:LYS:C	2.47	0.52
17:CQ:40:LYS:HD3	17:CQ:42:TYR:OH	2.10	0.52
26:D0:30:VAL:HA	26:D0:65:GLY:O	2.09	0.52
32:D6:10:LEU:H	32:D6:10:LEU:CD2	2.22	0.52
34:D8:59:LYS:CE	48:DP:50:ARG:HB3	2.40	0.52
35:D9:12:ASP:CG	35:D9:13:LYS:H	2.13	0.52
36:DA:61:G:H1	36:DA:94:C:N4	2.07	0.52
36:DA:72:U:O4	36:DA:112:U:H4'	2.09	0.52
36:DA:1275:A:C4	50:DR:16:HIS:ND1	2.77	0.52
36:DA:2189:U:C2'	36:DA:2190:G:H4'	2.39	0.52
36:DA:2317:C:H2'	36:DA:2318:G:H5'	1.92	0.52
36:DA:2389:G:C5'	36:DA:2390:U:H5'	2.39	0.52
36:DA:2636:U:H4'	40:DE:80:GLU:CD	2.30	0.52
36:DA:2776:A:H4'	36:DA:2777:G:H5''	1.91	0.52
36:DA:2784:C:O2'	40:DE:37:ARG:NH1	2.43	0.52
37:DB:19:G:H3'	37:DB:20:C:C6	2.44	0.52
37:DB:55:U:H2'	37:DB:56:G:H8	1.65	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:77:ALA:HB2	39:DD:97:TYR:HA	1.91	0.52
39:DD:229:VAL:HG23	39:DD:230:ASP:H	1.74	0.52
40:DE:1:MET:O	40:DE:2:LYS:C	2.46	0.52
42:DG:59:GLU:C	42:DG:61:ALA:H	2.13	0.52
43:DH:86:GLU:HA	43:DH:132:ARG:CB	2.40	0.52
46:DN:33:LEU:O	46:DN:52:VAL:HG21	2.10	0.52
48:DP:114:ILE:HG23	48:DP:130:PHE:HA	1.92	0.52
50:DR:45:ARG:CG	50:DR:46:GLY:H	2.08	0.52
51:DS:42:ASP:O	51:DS:43:GLU:HB3	2.09	0.52
53:DU:10:ARG:O	53:DU:11:ARG:C	2.47	0.52
54:DV:58:VAL:CG1	54:DV:97:LYS:HB2	2.39	0.52
55:DW:61:ASN:O	55:DW:62:HIS:ND1	2.43	0.52
1:AA:22:G:H2'	1:AA:23:C:O4'	2.09	0.52
1:AA:357:G:O2'	1:AA:358:U:H5'	2.10	0.52
1:AA:419:C:H2'	1:AA:420:U:H5'	1.92	0.52
1:AA:445:G:C6	1:AA:490:G:N1	2.78	0.52
1:AA:511:C:H42	1:AA:540:G:H1	1.57	0.52
1:AA:517:G:H5'	1:AA:519:C:C2	2.43	0.52
1:AA:582:U:O2'	1:AA:583:A:H5'	2.09	0.52
1:AA:1240:U:H5''	1:AA:1241:G:C8	2.45	0.52
2:AB:74:LYS:NZ	2:AB:76:GLN:HB2	2.25	0.52
2:AB:84:GLU:CB	2:AB:219:VAL:HG21	2.23	0.52
4:AD:165:MET:O	4:AD:166:LYS:C	2.49	0.52
8:AH:101:PRO:HG2	8:AH:133:LEU:HD11	1.91	0.52
10:AJ:55:LYS:O	10:AJ:56:HIS:CG	2.63	0.52
11:AK:63:LEU:O	11:AK:66:LEU:HB2	2.09	0.52
24:AY:69:C:H2'	24:AY:70:A:H8	1.75	0.52
25:AZ:347:THR:CG2	25:AZ:348:ASP:H	2.21	0.52
26:B0:4:LYS:HG3	49:BQ:82:ARG:HD2	1.91	0.52
28:B2:31:GLU:O	28:B2:32:LEU:C	2.44	0.52
31:B5:2:ALA:CA	36:BA:2015:A:H1'	2.40	0.52
36:BA:177:G:H3'	36:BA:178:G:H8	1.75	0.52
36:BA:181:A:C2	36:BA:182:A:C4	2.98	0.52
36:BA:307:G:H22	36:BA:310:A:P	2.33	0.52
36:BA:449:A:H4'	53:BU:3:ARG:HH21	1.73	0.52
36:BA:471:A:H2'	36:BA:472:A:H5'	1.91	0.52
36:BA:497:A:H2'	36:BA:498:G:H8	1.75	0.52
36:BA:972:G:H3'	36:BA:973:A:H2'	1.90	0.52
36:BA:1273:U:H5''	36:BA:1646:C:H41	1.75	0.52
36:BA:1773:A:N6	36:BA:1829:A:H1'	2.25	0.52
36:BA:1939:U:O2'	36:BA:1940:U:H5'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1998:G:H4'	36:BA:2724:C:H4'	1.91	0.52
36:BA:2638:G:P	40:BE:82:ARG:HH21	2.32	0.52
37:BB:8:U:H2'	37:BB:9:G:H8	1.75	0.52
39:BD:261:LYS:HZ1	39:BD:263:ARG:HB2	1.68	0.52
42:BG:96:ARG:HA	42:BG:100:TRP:CD1	2.44	0.52
43:BH:20:ALA:HB1	43:BH:21:PRO:HD3	1.92	0.52
43:BH:118:PRO:CG	43:BH:121:ILE:HD12	2.38	0.52
43:BH:125:VAL:O	43:BH:125:VAL:HG12	2.09	0.52
47:BO:119:PRO:HB2	52:BT:68:TYR:CE2	2.44	0.52
49:BQ:109:VAL:HG12	49:BQ:110:THR:H	1.72	0.52
50:BR:2:ARG:HH11	50:BR:2:ARG:N	2.07	0.52
52:BT:78:LEU:C	52:BT:79:HIS:CD2	2.83	0.52
55:BW:35:ILE:HG22	55:BW:36:LEU:N	2.23	0.52
58:BZ:69:THR:HB	58:BZ:88:PHE:HB3	1.92	0.52
1:CA:37:U:O2'	1:CA:500:G:H4'	2.10	0.52
1:CA:404:U:H2'	1:CA:405:U:C6	2.45	0.52
1:CA:505:G:H2'	1:CA:506:G:H8	1.74	0.52
1:CA:525:C:C4	1:CA:526:C:N4	2.78	0.52
1:CA:540:G:H2'	1:CA:541:G:C8	2.44	0.52
1:CA:678:U:H2'	1:CA:679:C:C6	2.45	0.52
1:CA:928:G:O2'	1:CA:929:G:H5'	2.08	0.52
1:CA:1092:A:O2'	1:CA:1093:A:H5'	2.10	0.52
1:CA:1316:G:H4'	14:CN:18:VAL:CG1	2.40	0.52
1:CA:1463:C:H5'	52:DT:115:ARG:HH21	1.74	0.52
2:CB:107:THR:HA	2:CB:110:GLN:NE2	2.25	0.52
2:CB:170:GLU:C	2:CB:172:ILE:HD12	2.30	0.52
4:CD:61:LYS:HG2	4:CD:62:GLN:N	2.25	0.52
4:CD:102:ASP:O	4:CD:105:VAL:HB	2.08	0.52
7:CG:89:MET:O	7:CG:90:GLU:O	2.28	0.52
7:CG:95:ARG:O	7:CG:96:GLN:C	2.47	0.52
7:CG:143:ARG:O	7:CG:144:MET:C	2.46	0.52
10:CJ:30:SER:OG	10:CJ:81:THR:HG22	2.10	0.52
10:CJ:92:THR:CG2	10:CJ:93:GLY:N	2.73	0.52
18:CR:59:SER:O	18:CR:60:ALA:C	2.47	0.52
18:CR:66:LEU:CG	18:CR:70:ILE:HD11	2.35	0.52
25:CZ:92:MET:SD	25:CZ:119:HIS:CD2	3.03	0.52
25:CZ:241:ARG:CA	25:CZ:285:ASN:ND2	2.72	0.52
25:CZ:244:ARG:HH11	25:CZ:244:ARG:CB	2.16	0.52
25:CZ:273:HIS:O	25:CZ:275:LYS:N	2.42	0.52
25:CZ:321:TYR:HD1	25:CZ:367:ASN:ND2	2.08	0.52
26:D0:39:ARG:NH1	26:D0:56:ASP:OD2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:3:LYS:HE2	27:D1:4:VAL:CG1	2.40	0.52
28:D2:43:GLN:O	28:D2:44:LEU:CB	2.57	0.52
33:D7:25:PRO:N	33:D7:28:ARG:NH2	2.56	0.52
34:D8:7:HIS:CE1	34:D8:9:GLY:HA3	2.44	0.52
35:D9:8:LYS:O	35:D9:10:ILE:HD12	2.10	0.52
35:D9:18:ARG:O	35:D9:19:ARG:HB3	2.10	0.52
36:DA:67:U:O2'	36:DA:68:G:H5'	2.10	0.52
36:DA:145:G:H2'	36:DA:146:G:C5'	2.38	0.52
36:DA:324:A:H61	36:DA:338:G:C2'	2.23	0.52
36:DA:398:G:H5''	36:DA:2090:G:C4'	2.40	0.52
36:DA:471:A:H2'	36:DA:472:A:H5'	1.91	0.52
36:DA:587:C:C5	48:DP:33:ARG:HG2	2.45	0.52
36:DA:1151:G:H2'	36:DA:1152:C:O4'	2.10	0.52
36:DA:1246:A:OP2	48:DP:18:ARG:HG3	2.10	0.52
36:DA:1348:G:O2'	36:DA:1349:A:H5''	2.10	0.52
36:DA:1511:C:H2'	36:DA:1512:U:C6	2.45	0.52
36:DA:1686:C:H5'	36:DA:1687:G:OP2	2.09	0.52
36:DA:2071:A:H2	36:DA:2441:C:N3	2.08	0.52
36:DA:2334:G:H21	51:DS:18:ILE:CG2	2.23	0.52
38:DC:6:ARG:O	38:DC:10:LEU:HD23	2.09	0.52
42:DG:46:ALA:HB2	42:DG:88:ILE:HG13	1.88	0.52
42:DG:117:PHE:O	42:DG:118:ARG:HG3	2.09	0.52
43:DH:137:ASP:HB2	43:DH:140:LYS:HE3	1.92	0.52
43:DH:163:TYR:N	43:DH:163:TYR:CD1	2.78	0.52
46:DN:24:GLY:O	46:DN:28:THR:HG22	2.10	0.52
49:DQ:22:LYS:HG3	49:DQ:22:LYS:O	2.09	0.52
51:DS:98:VAL:CG1	51:DS:100:ALA:HB2	2.40	0.52
54:DV:21:ARG:HB3	54:DV:91:TYR:CG	2.45	0.52
57:DY:41:GLY:O	57:DY:42:VAL:O	2.28	0.52
1:AA:193:C:O4'	20:AT:60:GLU:CD	2.48	0.52
1:AA:1245:A:H61	1:AA:1292:U:H3	1.58	0.52
1:AA:1359:C:OP2	14:AN:22:THR:CG2	2.57	0.52
2:AB:30:ARG:HG3	2:AB:31:TYR:CD2	2.45	0.52
2:AB:44:LEU:H	2:AB:44:LEU:CD1	2.09	0.52
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.91	0.52
3:AC:13:GLY:C	3:AC:14:ILE:HG22	2.30	0.52
3:AC:134:ILE:CG2	3:AC:168:ALA:HB3	2.40	0.52
4:AD:128:VAL:HG12	4:AD:129:ASN:N	2.25	0.52
6:AF:1:MET:N	6:AF:68:PRO:HA	2.25	0.52
10:AJ:40:LEU:HG	10:AJ:69:ASN:HB3	1.90	0.52
13:AM:93:ARG:CG	36:BA:888:C:OP1	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:62:ILE:HD12	19:AS:66:MET:CE	2.37	0.52
22:AV:7:A:N1	22:AV:67:C:N3	2.58	0.52
22:AW:24:G:H2'	22:AW:25:C:C6	2.45	0.52
26:B0:46:LYS:HE3	26:B0:78:TYR:OH	2.10	0.52
27:B1:25:LYS:HD2	36:BA:388:G:C4'	2.32	0.52
27:B1:62:VAL:HG13	27:B1:67:ILE:HG12	1.92	0.52
27:B1:67:ILE:N	27:B1:68:PRO:CD	2.72	0.52
28:B2:2:LYS:HB3	36:BA:97:C:H5''	1.90	0.52
31:B5:18:ALA:O	31:B5:21:SER:HB3	2.10	0.52
36:BA:80:G:H1'	36:BA:346:A:N1	2.25	0.52
36:BA:272(I):U:C2'	36:BA:272(J):C:H5'	2.39	0.52
36:BA:807:U:H2'	36:BA:808:G:O4'	2.09	0.52
36:BA:856:C:H4'	36:BA:857:C:OP1	2.10	0.52
36:BA:911:A:H5''	36:BA:912:C:H5''	1.92	0.52
36:BA:956:G:OP1	49:BQ:87:LYS:HG3	2.10	0.52
36:BA:1052:C:H2'	36:BA:1053:C:C5	2.45	0.52
36:BA:1170:G:H5''	36:BA:1173:G:N2	2.24	0.52
36:BA:1246:A:OP2	48:BP:18:ARG:HG3	2.10	0.52
36:BA:1506:C:H2'	36:BA:1506:C:O2	2.09	0.52
36:BA:2089:U:H3	36:BA:2230:G:H1	1.58	0.52
36:BA:2253:G:O2'	36:BA:2254:C:H5'	2.10	0.52
36:BA:2550:G:O2'	36:BA:2551:C:H5'	2.08	0.52
36:BA:2652:C:C4	36:BA:2653:U:C4	2.98	0.52
36:BA:2880:C:C5	36:BA:2881:C:H5	2.28	0.52
38:BC:110:PHE:O	38:BC:111:ASP:HB2	2.08	0.52
40:BE:51:PHE:HD1	40:BE:52:LEU:N	2.08	0.52
40:BE:96:PHE:HA	40:BE:100:GLU:OE1	2.10	0.52
40:BE:131:ALA:CB	40:BE:134:ILE:HD11	2.40	0.52
41:BF:11:VAL:HG12	41:BF:12:LEU:N	2.21	0.52
41:BF:130:ALA:HB3	41:BF:142:TRP:CD1	2.45	0.52
46:BN:34:LEU:CD2	46:BN:120:LEU:HD23	2.38	0.52
46:BN:40:PRO:HD3	53:BU:68:ALA:HA	1.92	0.52
46:BN:108:PRO:HG2	46:BN:113:GLY:CA	2.40	0.52
47:BO:14:THR:O	47:BO:14:THR:HG22	2.10	0.52
48:BP:59:LEU:C	48:BP:61:ARG:H	2.14	0.52
48:BP:143:GLY:C	48:BP:145:PRO:HD3	2.30	0.52
49:BQ:48:GLU:O	49:BQ:52:VAL:HG23	2.09	0.52
50:BR:4:LEU:HG	50:BR:4:LEU:O	2.10	0.52
50:BR:52:ILE:HD12	50:BR:79:LEU:HD21	1.90	0.52
51:BS:26:LEU:HD23	51:BS:27:SER:O	2.09	0.52
53:BU:28:ARG:O	53:BU:35:ALA:HA	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:13:VAL:CG2	57:BY:73:ARG:O	2.57	0.52
1:CA:14:U:O2'	1:CA:16:A:N7	2.40	0.52
1:CA:603:U:H2'	1:CA:604:G:H8	1.75	0.52
1:CA:620:C:H2'	1:CA:621:A:C8	2.45	0.52
1:CA:719:C:O2	18:CR:50:ILE:HG12	2.09	0.52
1:CA:836:G:C6	1:CA:851:G:C6	2.97	0.52
1:CA:1230:C:O5'	1:CA:1230:C:H6	1.92	0.52
1:CA:1359:C:OP2	14:CN:22:THR:CG2	2.53	0.52
9:CI:52:ALA:CB	9:CI:95:LYS:HE2	2.29	0.52
10:CJ:7:LYS:C	10:CJ:8:LEU:HD12	2.30	0.52
10:CJ:61:GLU:OE2	14:CN:45:ARG:HD2	2.10	0.52
10:CJ:96:ILE:HD13	10:CJ:96:ILE:H	1.73	0.52
16:CP:6:LEU:HD12	16:CP:6:LEU:N	2.24	0.52
18:CR:31:LEU:HD21	18:CR:65:ILE:HD12	1.92	0.52
19:CS:66:MET:O	19:CS:66:MET:HG3	2.09	0.52
19:CS:79:THR:O	19:CS:80:TYR:HB3	2.10	0.52
25:CZ:246:LYS:HD3	25:CZ:281:ILE:CG2	2.39	0.52
25:CZ:385:ARG:HD3	63:CZ:502:KIR:H452	1.91	0.52
26:D0:30:VAL:O	26:D0:31:VAL:HG13	2.09	0.52
36:DA:414:C:N3	36:DA:2410:G:N2	2.57	0.52
36:DA:483:A:C4'	57:DY:49:VAL:HG22	2.39	0.52
36:DA:500:G:N2	36:DA:502:A:H3'	2.25	0.52
36:DA:1094:U:H2'	36:DA:1096:A:OP2	2.08	0.52
36:DA:1278:A:H2'	36:DA:1279:G:H8	1.75	0.52
36:DA:1493:C:H2'	36:DA:1493:C:O2	2.10	0.52
36:DA:1664:A:H61	36:DA:1996:C:H42	1.58	0.52
36:DA:1759:A:C8	36:DA:2696:U:O2	2.63	0.52
36:DA:1822:G:C4	36:DA:1823:G:C8	2.97	0.52
36:DA:1840:G:H1	36:DA:1902:C:H42	1.58	0.52
36:DA:2257:U:O2'	36:DA:2258:C:H5'	2.09	0.52
36:DA:2313:C:H5'	36:DA:2313:C:C6	2.45	0.52
36:DA:2369:A:H2'	36:DA:2370:G:H8	1.75	0.52
36:DA:2557:G:O2'	36:DA:2558:C:H5'	2.10	0.52
36:DA:2688:U:O2	36:DA:2688:U:C3'	2.58	0.52
38:DC:153:ILE:O	38:DC:157:LYS:HB2	2.09	0.52
40:DE:36:ARG:HG2	40:DE:36:ARG:HH11	1.74	0.52
40:DE:195:LEU:HD11	40:DE:197:ILE:HG22	1.91	0.52
42:DG:111:LEU:HB2	42:DG:112:PRO:CD	2.40	0.52
43:DH:118:PRO:CG	43:DH:121:ILE:HD12	2.39	0.52
46:DN:31:ALA:HA	46:DN:34:LEU:HB2	1.91	0.52
50:DR:73:VAL:CG1	50:DR:77:ARG:HH12	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:65:LYS:O	52:DT:72:VAL:HG23	2.10	0.52
53:DU:66:ASN:CB	53:DU:76:TYR:HB2	2.39	0.52
56:DX:3:THR:HA	56:DX:6:ASP:OD2	2.10	0.52
57:DY:7:VAL:HG21	57:DY:8:LYS:HZ2	1.75	0.52
58:DZ:76:LEU:O	58:DZ:84:GLU:HB2	2.10	0.52
58:DZ:128:VAL:HG22	58:DZ:129:SER:N	2.25	0.52
1:AA:189:G:H2'	1:AA:189(A):C:H6	1.74	0.52
1:AA:191:G:C4	20:AT:105:SER:HB3	2.45	0.52
1:AA:542:G:N2	1:AA:543:C:C2	2.78	0.52
1:AA:813:U:O2'	1:AA:814:A:H5'	2.09	0.52
1:AA:1173:G:H2'	1:AA:1174:G:H8	1.72	0.52
1:AA:1230:C:O5'	1:AA:1230:C:H6	1.91	0.52
1:AA:1231:G:H2'	1:AA:1232:U:H6	1.75	0.52
1:AA:1328:C:H2'	1:AA:1329:A:C8	2.41	0.52
1:AA:1494:G:OP1	59:AA:1601:PAR:N32	2.43	0.52
2:AB:92:TYR:CE1	2:AB:151:GLY:N	2.78	0.52
3:AC:142:MET:C	3:AC:144:SER:N	2.63	0.52
4:AD:182:LYS:O	4:AD:183:GLY:O	2.28	0.52
5:AE:33:VAL:HG23	5:AE:43:LEU:HD13	1.92	0.52
7:AG:24:THR:HG22	7:AG:27:ILE:HD12	1.92	0.52
7:AG:36:LYS:O	7:AG:39:ALA:HB3	2.10	0.52
8:AH:64:LYS:CD	8:AH:79:VAL:HG21	2.38	0.52
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.25	0.52
10:AJ:18:ALA:O	10:AJ:21:GLN:N	2.43	0.52
10:AJ:45:ARG:NE	14:AN:36:PHE:CD2	2.78	0.52
13:AM:91:ARG:HB3	13:AM:98:VAL:CG2	2.37	0.52
17:AQ:40:LYS:HD3	17:AQ:42:TYR:OH	2.09	0.52
22:AW:7:A:H5''	22:AW:8:U:OP2	2.10	0.52
22:AW:54:U:H4'	38:BC:54:SER:HB2	1.92	0.52
30:B4:46:GLN:CG	30:B4:47:GLN:N	2.73	0.52
36:BA:76:C:O2'	36:BA:77:C:H5'	2.08	0.52
36:BA:553:G:O2'	36:BA:554:U:H5'	2.09	0.52
36:BA:745:G:OP2	40:BE:133:LYS:HD2	2.10	0.52
36:BA:973:A:O4'	36:BA:1188:U:C6	2.64	0.52
36:BA:1119:C:H2'	36:BA:1120:G:H8	1.75	0.52
36:BA:1299:G:H2'	36:BA:1639:U:O4	2.09	0.52
36:BA:1346:G:H2'	36:BA:1347:G:H8	1.75	0.52
36:BA:2048:G:C2	36:BA:2621:A:C2	2.98	0.52
36:BA:2252:G:O2'	36:BA:2253:G:H5'	2.09	0.52
36:BA:2392:A:H8	48:BP:60:MET:HA	1.74	0.52
36:BA:2469:A:C5	36:BA:2470:G:H1'	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BB:83:G:O2'	37:BB:84:C:H5'	2.10	0.52
38:BC:25:ALA:O	38:BC:28:LEU:N	2.43	0.52
40:BE:56:PRO:O	40:BE:57:LYS:HD2	2.09	0.52
40:BE:93:VAL:HG12	40:BE:175:VAL:CG2	2.40	0.52
41:BF:143:ALA:O	41:BF:148:LEU:HB2	2.09	0.52
42:BG:63:ILE:C	42:BG:65:GLY:H	2.13	0.52
48:BP:144:GLU:N	48:BP:145:PRO:HD3	2.25	0.52
50:BR:3:HIS:O	50:BR:5:LYS:HD3	2.10	0.52
51:BS:36:TYR:O	51:BS:37:ALA:HB2	2.09	0.52
52:BT:2:ASN:O	52:BT:3:ARG:HG2	2.10	0.52
58:BZ:70:LEU:CD2	58:BZ:91:LEU:HD11	2.40	0.52
58:BZ:153:SER:H	58:BZ:167:PRO:HB3	1.69	0.52
1:CA:193:C:O4'	20:CT:60:GLU:CD	2.48	0.52
1:CA:585:G:C4'	12:CL:8:ASN:HD21	2.14	0.52
1:CA:697:U:O4'	1:CA:786:G:H4'	2.09	0.52
1:CA:925:G:O2'	1:CA:927:G:OP1	2.24	0.52
1:CA:1015:A:H2'	1:CA:1016:A:H8	1.75	0.52
1:CA:1134:G:N2	1:CA:1141:C:C4	2.78	0.52
1:CA:1499:A:C1'	1:CA:1520:G:H5'	2.39	0.52
3:CC:113:ALA:O	3:CC:114:PRO:C	2.48	0.52
3:CC:186:PHE:HD1	3:CC:198:VAL:O	1.93	0.52
12:CL:55:VAL:HG23	12:CL:68:ALA:O	2.09	0.52
15:CO:7:GLU:O	15:CO:10:LYS:HB3	2.10	0.52
17:CQ:61:GLU:HA	17:CQ:71:PHE:CD1	2.45	0.52
20:CT:75:ASN:O	20:CT:79:ARG:HB2	2.10	0.52
22:CV:65:G:O2'	22:CV:66:U:H5'	2.10	0.52
25:CZ:154:VAL:HG12	25:CZ:158:LEU:HD11	1.92	0.52
25:CZ:316:PHE:CE2	25:CZ:400:VAL:HG22	2.45	0.52
25:CZ:347:THR:CG2	25:CZ:348:ASP:H	2.22	0.52
28:D2:57:ILE:O	28:D2:58:ALA:C	2.48	0.52
34:D8:25:MET:CG	48:DP:64:LYS:HB2	2.37	0.52
36:DA:324:A:O2'	36:DA:325:G:H5'	2.10	0.52
36:DA:970:C:H2'	36:DA:971:C:H6	1.75	0.52
36:DA:976:C:H2'	36:DA:977:G:H8	1.74	0.52
36:DA:1278:A:H2'	36:DA:1279:G:C8	2.44	0.52
36:DA:1463:C:H2'	36:DA:1464:C:O4'	2.09	0.52
36:DA:1540:U:H3'	36:DA:1541:G:H3'	1.92	0.52
36:DA:1542:A:C8	36:DA:1544:A:H5'	2.45	0.52
36:DA:1607:C:H4'	36:DA:1608:A:O5'	2.10	0.52
36:DA:1798:U:H5''	39:DD:260:ARG:H	1.74	0.52
36:DA:2041:U:OP2	36:DA:2041:U:H6	1.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2125:G:OP1	38:DC:40:THR:HG21	2.09	0.52
36:DA:2391:G:O6	36:DA:2425:A:H8	1.93	0.52
36:DA:2518:A:O2'	36:DA:2519:U:H5'	2.10	0.52
36:DA:2554:U:H2'	36:DA:2555:U:H6	1.75	0.52
36:DA:2711:A:OP1	36:DA:2712(A):A:P	2.68	0.52
38:DC:140:PRO:C	38:DC:142:ALA:N	2.64	0.52
39:DD:79:VAL:CG1	39:DD:113:VAL:HA	2.39	0.52
41:DF:25:PRO:HB3	41:DF:119:ARG:CA	2.40	0.52
41:DF:62:ARG:HG2	41:DF:62:ARG:HH11	1.75	0.52
41:DF:117:ARG:NH2	48:DP:5:ASP:N	2.58	0.52
41:DF:157:VAL:CG2	41:DF:194:MET:HG2	2.39	0.52
46:DN:35:ARG:O	46:DN:36:GLY:C	2.48	0.52
46:DN:65:LYS:O	46:DN:69:GLN:HB2	2.10	0.52
50:DR:55:ALA:HB1	50:DR:79:LEU:HD11	1.92	0.52
50:DR:73:VAL:HG12	50:DR:77:ARG:HH12	1.74	0.52
51:DS:52:SER:HB3	51:DS:55:ALA:HB3	1.91	0.52
52:DT:26:ASP:HB3	52:DT:89:VAL:O	2.10	0.52
53:DU:92:ARG:O	53:DU:94:ASN:N	2.43	0.52
55:DW:13:SER:O	55:DW:17:VAL:HG23	2.09	0.52
55:DW:59:VAL:O	55:DW:60:ASN:C	2.46	0.52
1:AA:236:G:C6	1:AA:237:C:C4	2.98	0.51
1:AA:973:G:O4'	10:AJ:55:LYS:HE2	2.10	0.51
1:AA:993:G:N2	1:AA:1046:A:H1'	2.17	0.51
1:AA:1072:G:H2'	1:AA:1073:U:H6	1.74	0.51
1:AA:1119:C:H2'	1:AA:1120:G:H8	1.71	0.51
1:AA:1134:G:N2	1:AA:1141:C:C4	2.78	0.51
1:AA:1487:G:C2'	1:AA:1488:G:H5'	2.40	0.51
2:AB:8:LYS:CD	2:AB:217:ARG:NH2	2.73	0.51
2:AB:105:PHE:O	2:AB:106:LYS:C	2.48	0.51
2:AB:162:ILE:HG21	2:AB:184:VAL:HG22	1.91	0.51
4:AD:61:LYS:HA	4:AD:203:VAL:HG13	1.92	0.51
4:AD:76:ARG:O	4:AD:79:PHE:HB3	2.10	0.51
5:AE:69:VAL:O	5:AE:71:LEU:HG	2.09	0.51
8:AH:81:HIS:HB2	8:AH:138:TRP:CZ3	2.45	0.51
9:AI:57:GLY:O	9:AI:58:HIS:CB	2.58	0.51
12:AL:41:ARG:HH11	12:AL:41:ARG:CG	2.23	0.51
12:AL:119:LYS:O	12:AL:120:TYR:HB2	2.10	0.51
15:AO:39:LEU:CD2	15:AO:43:LEU:HG	2.40	0.51
16:AP:25:ARG:HG3	16:AP:25:ARG:HH11	1.75	0.51
18:AR:69:THR:O	18:AR:72:ARG:N	2.43	0.51
24:AY:61:C:C3'	24:AY:62:U:H5''	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:86:ALA:O	25:AZ:87:ASP:CB	2.58	0.51
25:AZ:171:ILE:CG2	25:AZ:172:ARG:N	2.72	0.51
25:AZ:246:LYS:HD3	25:AZ:281:ILE:CG2	2.40	0.51
28:B2:16:LEU:HD13	28:B2:24:LEU:CD1	2.40	0.51
30:B4:31:ILE:HG22	30:B4:33:VAL:HG23	1.90	0.51
34:B8:49:VAL:HG12	34:B8:50:LEU:H	1.75	0.51
36:BA:456:C:C2	56:BX:69:TYR:HE2	2.28	0.51
36:BA:615:G:H2'	36:BA:616:G:H8	1.74	0.51
36:BA:949:C:O2'	36:BA:950:G:H5'	2.10	0.51
36:BA:1094:U:H2'	36:BA:1096:A:OP2	2.09	0.51
36:BA:1174:A:OP1	36:BA:1175:U:H5''	2.10	0.51
36:BA:1607:C:H4'	36:BA:1608:A:O5'	2.10	0.51
36:BA:1949:G:H2'	36:BA:1950:G:C8	2.45	0.51
36:BA:2120:G:H2'	36:BA:2121:G:H8	1.75	0.51
36:BA:2504:U:O5'	36:BA:2504:U:H6	1.93	0.51
37:BB:19:G:H3'	37:BB:20:C:C6	2.45	0.51
39:BD:261:LYS:HZ1	39:BD:263:ARG:NH1	2.08	0.51
40:BE:36:ARG:HG2	40:BE:36:ARG:HH11	1.75	0.51
40:BE:36:ARG:O	40:BE:37:ARG:HG2	2.10	0.51
40:BE:174:ASP:OD2	40:BE:175:VAL:N	2.43	0.51
41:BF:163:VAL:O	41:BF:166:ALA:HB3	2.10	0.51
42:BG:166:ASP:O	42:BG:168:GLU:N	2.43	0.51
46:BN:48:MET:HE3	46:BN:49:GLY:H	1.74	0.51
46:BN:126:PRO:O	46:BN:127:ASP:CB	2.57	0.51
48:BP:86:LYS:HB2	48:BP:117:GLU:O	2.10	0.51
56:BX:74:PRO:O	56:BX:76:ARG:HD2	2.09	0.51
57:BY:75:ILE:HG13	57:BY:76:CYS:H	1.73	0.51
1:CA:47:C:O2'	1:CA:48:C:O5'	2.25	0.51
1:CA:117:G:O6	1:CA:289:G:C1'	2.57	0.51
1:CA:1102:A:H2'	1:CA:1103:C:C6	2.45	0.51
1:CA:1148:U:C2'	1:CA:1149:C:H5'	2.40	0.51
1:CA:1155:G:H2'	1:CA:1156:G:C8	2.45	0.51
1:CA:1306:A:OP1	21:CU:6:ARG:NH2	2.43	0.51
1:CA:1430:C:N3	1:CA:1471:G:N1	2.58	0.51
2:CB:130:ARG:CZ	2:CB:131:PRO:HD2	2.40	0.51
2:CB:130:ARG:HH21	2:CB:131:PRO:HD2	1.74	0.51
4:CD:79:PHE:CE2	4:CD:207:TYR:HD1	2.28	0.51
13:CM:2:ALA:HB3	13:CM:9:ILE:CG2	2.39	0.51
20:CT:57:ARG:CZ	20:CT:102:GLY:HA3	2.39	0.51
25:CZ:223:MET:O	25:CZ:223:MET:HG3	2.09	0.51
34:D8:32:LEU:HD12	36:DA:2391:G:OP1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:48:G:H22	36:DA:177:G:H21	1.58	0.51
36:DA:74:A:H5''	36:DA:75:G:C1'	2.39	0.51
36:DA:227:A:H5''	48:DP:76:LYS:CE	2.20	0.51
36:DA:251:A:H2'	36:DA:252:G:O4'	2.10	0.51
36:DA:271(J):C:HO2'	36:DA:271(K):U:H6	1.56	0.51
36:DA:603:A:H1'	36:DA:604:G:OP2	2.10	0.51
36:DA:615:G:H2'	36:DA:616:G:C8	2.45	0.51
36:DA:717:G:H2'	36:DA:718:A:C8	2.44	0.51
36:DA:749:C:H4'	36:DA:1271:G:N3	2.25	0.51
36:DA:856:C:H4'	36:DA:857:C:OP1	2.10	0.51
36:DA:966:G:H1'	36:DA:2267:A:H62	1.75	0.51
36:DA:1376:C:C2'	36:DA:1377:G:H5'	2.40	0.51
36:DA:1949:G:H2'	36:DA:1950:G:C8	2.44	0.51
36:DA:2107:C:H2'	36:DA:2108:C:H6	1.75	0.51
36:DA:2120:G:H2'	36:DA:2121:G:H8	1.75	0.51
36:DA:2199:A:OP2	36:DA:2200:C:H5	1.92	0.51
36:DA:2199:A:C5'	36:DA:2200:C:OP2	2.58	0.51
36:DA:2259:G:N1	36:DA:2282:G:C6	2.78	0.51
36:DA:2457:U:O2'	36:DA:2458:G:H5'	2.10	0.51
37:DB:5:C:H2'	37:DB:6:C:C6	2.44	0.51
37:DB:7:G:H3'	37:DB:8:U:C5'	2.31	0.51
37:DB:66:A:H61	37:DB:108:U:H3'	1.74	0.51
38:DC:110:PHE:O	38:DC:111:ASP:HB2	2.11	0.51
39:DD:245:PRO:O	39:DD:246:PRO:C	2.48	0.51
40:DE:198:VAL:CG1	40:DE:199:ARG:H	2.11	0.51
41:DF:158:THR:HB	41:DF:195:ASP:CB	2.39	0.51
43:DH:46:GLU:HB3	43:DH:50:VAL:HG13	1.92	0.51
49:DQ:41:TRP:HB3	49:DQ:94:VAL:HG11	1.91	0.51
49:DQ:76:LYS:HB2	49:DQ:91:GLU:HG3	1.92	0.51
50:DR:43:GLU:OE2	50:DR:43:GLU:HA	2.10	0.51
55:DW:65:LEU:HB3	55:DW:68:ARG:HD2	1.91	0.51
57:DY:85:VAL:HG12	57:DY:86:ARG:H	1.73	0.51
58:DZ:24:LEU:O	58:DZ:24:LEU:HD23	2.09	0.51
58:DZ:101:PRO:HG2	58:DZ:136:PHE:N	2.26	0.51
1:AA:556:C:O2'	1:AA:557:G:H5'	2.11	0.51
1:AA:581:G:O6	1:AA:758:G:C8	2.63	0.51
1:AA:658:G:H2'	1:AA:659:U:H6	1.75	0.51
1:AA:779:C:O3'	11:AK:122:LYS:HA	2.10	0.51
1:AA:858:G:N1	1:AA:869:G:C8	2.78	0.51
1:AA:1434:A:H2'	1:AA:1435:G:O4'	2.10	0.51
1:AA:1441:G:H4'	1:AA:1442:G:N3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:17:PHE:HB3	2:AB:44:LEU:CD2	2.41	0.51
3:AC:66:VAL:O	3:AC:66:VAL:HG12	2.10	0.51
3:AC:70:VAL:CG1	3:AC:71:ALA:H	2.23	0.51
3:AC:106:VAL:O	3:AC:107:GLN:C	2.48	0.51
3:AC:156:ARG:H	3:AC:163:ALA:HA	1.74	0.51
4:AD:129:ASN:HD21	4:AD:145:GLU:N	2.08	0.51
4:AD:186:LEU:O	4:AD:187:ARG:HB2	2.09	0.51
5:AE:41:VAL:HG11	5:AE:113:ALA:HA	1.90	0.51
8:AH:119:LEU:HB3	8:AH:123:GLU:HB2	1.93	0.51
13:AM:39:ILE:HG22	13:AM:40:ASN:N	2.26	0.51
13:AM:81:LEU:N	13:AM:81:LEU:CD2	2.74	0.51
19:AS:10:PHE:CE1	19:AS:70:LYS:HD2	2.45	0.51
22:AV:5:G:O2'	22:AV:6:G:H5'	2.10	0.51
22:AW:52:G:N2	22:AW:53:G:H1'	2.25	0.51
25:AZ:314:THR:HG22	25:AZ:377:PRO:HA	1.92	0.51
31:B5:43:HIS:N	31:B5:43:HIS:CD2	2.78	0.51
34:B8:47:LYS:HD3	34:B8:48:PHE:O	2.10	0.51
35:B9:2:LYS:HG3	36:BA:2526:G:H21	1.76	0.51
35:B9:9:ARG:O	35:B9:11:CYS:N	2.43	0.51
36:BA:21:A:H2'	36:BA:22:C:H6	1.74	0.51
36:BA:49:A:N3	36:BA:49:A:H5'	2.25	0.51
36:BA:371:A:N1	36:BA:401:A:H5''	2.24	0.51
36:BA:606:U:H2'	36:BA:607:U:C4'	2.40	0.51
36:BA:607:U:OP1	41:BF:102:PRO:HA	2.10	0.51
36:BA:713:G:H2'	36:BA:714:U:C6	2.46	0.51
36:BA:723:G:H2'	36:BA:724:U:O4'	2.10	0.51
36:BA:1130:U:O2	36:BA:2025:C:H5''	2.10	0.51
36:BA:1655:A:H1'	40:BE:113:PHE:HD2	1.75	0.51
38:BC:117:PRO:HD3	38:BC:146:GLY:N	2.25	0.51
38:BC:120:MET:SD	38:BC:123:VAL:HG11	2.51	0.51
39:BD:137:PRO:HB2	39:BD:140:THR:HG23	1.92	0.51
42:BG:12:TYR:CD1	42:BG:12:TYR:N	2.78	0.51
46:BN:46:VAL:HG13	46:BN:48:MET:H	1.76	0.51
51:BS:78:LEU:HD11	51:BS:103:GLU:CB	2.39	0.51
58:BZ:30:ASN:ND2	58:BZ:32:HIS:H	2.09	0.51
1:CA:364:A:H2'	1:CA:365:U:C2	2.46	0.51
1:CA:365:U:O5'	1:CA:365:U:O2	2.29	0.51
1:CA:404:U:H5'	4:CD:122:ARG:HD3	1.93	0.51
1:CA:577:G:C1'	1:CA:816:A:C4	2.94	0.51
1:CA:750:G:H21	15:CO:24:SER:H	1.58	0.51
1:CA:1189:C:O3'	3:CC:5:ILE:HD12	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.45	0.51
1:CA:1432:G:OP2	52:DT:108:ARG:NE	2.43	0.51
1:CA:1462:G:O2'	1:CA:1463:C:H5'	2.09	0.51
2:CB:28:PHE:HD1	2:CB:28:PHE:O	1.94	0.51
2:CB:219:VAL:CA	2:CB:222:ILE:HG12	2.41	0.51
3:CC:94:LEU:O	3:CC:94:LEU:CD1	2.57	0.51
7:CG:119:ARG:O	7:CG:120:ILE:C	2.48	0.51
8:CH:39:LEU:HB2	8:CH:45:ILE:HD11	1.91	0.51
11:CK:57:THR:CG2	11:CK:60:ALA:H	2.23	0.51
13:CM:14:ARG:H	13:CM:44:ARG:HH11	1.58	0.51
13:CM:57:ARG:C	13:CM:59:TYR:N	2.64	0.51
13:CM:113:PRO:O	13:CM:115:LYS:HD3	2.10	0.51
20:CT:89:ARG:HD2	20:CT:104:LEU:HD11	1.92	0.51
22:CW:17:C:N4	36:DA:2180:U:H3	2.07	0.51
24:CY:23:A:H2'	24:CY:24:G:C8	2.45	0.51
25:CZ:146:LEU:N	25:CZ:149:LEU:HD23	2.25	0.51
26:D0:46:LYS:HE3	26:D0:78:TYR:OH	2.10	0.51
27:D1:45:ASN:CB	27:D1:64:ALA:HB2	2.40	0.51
29:D3:23:LEU:C	29:D3:25:ALA:N	2.63	0.51
30:D4:20:ASN:C	30:D4:20:ASN:ND2	2.64	0.51
32:D6:35:GLU:CG	32:D6:51:GLU:HG3	2.39	0.51
33:D7:11:LYS:NZ	36:DA:685:A:OP1	2.42	0.51
34:D8:6:THR:HG1	36:DA:243:U:P	2.33	0.51
34:D8:61:LEU:C	34:D8:63:PRO:HD2	2.29	0.51
35:D9:7:VAL:HG12	35:D9:25:VAL:HG21	1.92	0.51
36:DA:306:U:H2'	36:DA:307:G:C8	2.45	0.51
36:DA:391:G:C5	36:DA:392:C:C5	2.99	0.51
36:DA:401:A:H2'	36:DA:402:A:H8	1.75	0.51
36:DA:419:C:H2'	36:DA:420:C:H6	1.74	0.51
36:DA:729:G:H5'	36:DA:730:C:H5''	1.92	0.51
36:DA:1199:U:H1'	53:DU:4:ALA:HB2	1.92	0.51
36:DA:1520:G:C2'	36:DA:1523:U:H5'	2.40	0.51
36:DA:1623:G:O2'	36:DA:1624:G:H5'	2.10	0.51
36:DA:1835:G:N3	36:DA:1835:G:H2'	2.24	0.51
36:DA:1854:A:H62	36:DA:1888:G:H8	1.56	0.51
36:DA:2480:C:OP1	36:DA:2537:U:H4'	2.09	0.51
36:DA:2818:G:O2'	36:DA:2819:G:H5'	2.10	0.51
40:DE:31:CYS:HB2	40:DE:49:LEU:HD12	1.91	0.51
40:DE:51:PHE:HD1	40:DE:52:LEU:N	2.08	0.51
41:DF:168:ARG:O	41:DF:169:ASN:C	2.47	0.51
50:DR:100:LEU:HD22	50:DR:112:ALA:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:107:ASP:O	50:DR:109:ALA:N	2.43	0.51
52:DT:111:ARG:HG2	52:DT:111:ARG:NH1	2.23	0.51
53:DU:66:ASN:ND2	53:DU:70:ARG:HB2	2.24	0.51
53:DU:85:LYS:CD	53:DU:117:GLN:HE22	2.23	0.51
57:DY:74:PRO:HG2	57:DY:81:LYS:O	2.10	0.51
58:DZ:105:VAL:O	58:DZ:105:VAL:HG13	2.10	0.51
58:DZ:163:LEU:CG	58:DZ:165:VAL:HG23	2.40	0.51
1:AA:35:G:H2'	1:AA:36:C:H6	1.69	0.51
1:AA:157:G:O2'	1:AA:158:G:H5'	2.11	0.51
1:AA:786:G:N2	1:AA:787:A:H1'	2.26	0.51
1:AA:954:G:H2'	1:AA:955:U:C6	2.45	0.51
1:AA:1018:C:H2'	1:AA:1019:C:C6	2.46	0.51
1:AA:1308:U:OP1	13:AM:98:VAL:N	2.40	0.51
1:AA:1348:U:O3'	9:AI:120:ARG:HB2	2.09	0.51
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.45	0.51
1:AA:1512:U:O2	1:AA:1523:G:N2	2.42	0.51
2:AB:7:VAL:O	2:AB:7:VAL:HG12	2.09	0.51
4:AD:24:GLU:H	4:AD:112:VAL:CG2	2.24	0.51
4:AD:85:LYS:HD3	4:AD:92:VAL:HG11	1.92	0.51
8:AH:4:ASP:OD1	8:AH:7:ALA:N	2.40	0.51
10:AJ:47:PHE:CZ	14:AN:37:PHE:HE2	2.28	0.51
12:AL:70:ILE:CD1	12:AL:77:LEU:HD12	2.40	0.51
14:AN:8:GLU:C	14:AN:10:ALA:H	2.13	0.51
18:AR:55:ARG:HG3	18:AR:55:ARG:NH1	2.25	0.51
19:AS:28:LYS:HE2	19:AS:29:ARG:CZ	2.40	0.51
19:AS:49:ILE:O	19:AS:60:VAL:O	2.27	0.51
22:AV:56:C:N3	42:BG:83:ARG:HD3	2.25	0.51
25:AZ:171:ILE:HG22	25:AZ:172:ARG:N	2.25	0.51
25:AZ:241:ARG:CA	25:AZ:285:ASN:ND2	2.73	0.51
25:AZ:389:ARG:O	25:AZ:390:GLU:HB2	2.09	0.51
30:B4:14:ILE:HG13	30:B4:31:ILE:HB	1.91	0.51
31:B5:6:VAL:HG22	36:BA:2016:U:H1'	1.92	0.51
32:B6:28:ARG:O	32:B6:29:ASN:C	2.49	0.51
36:BA:309:G:O3'	57:BY:18:GLY:HA2	2.10	0.51
36:BA:534:U:H5'	53:BU:42:ALA:HB1	1.91	0.51
36:BA:572:A:N1	36:BA:2033:A:C2	2.79	0.51
36:BA:657:U:C2	36:BA:658:C:C5	2.99	0.51
36:BA:1193:G:N3	36:BA:1194:A:H1'	2.24	0.51
36:BA:1259:G:H2'	36:BA:1260:G:H8	1.74	0.51
36:BA:1331:A:O2'	36:BA:1332:G:C8	2.63	0.51
36:BA:1517:G:C6	36:BA:1518:U:C4	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2317:C:H2'	36:BA:2318:G:H5'	1.92	0.51
36:BA:2467:C:C2'	36:BA:2468:G:H5'	2.40	0.51
36:BA:2681:C:C5	36:BA:2725:A:N6	2.78	0.51
36:BA:2758:A:C2	36:BA:2759:G:H1'	2.44	0.51
38:BC:99:ILE:HG22	38:BC:99:ILE:O	2.09	0.51
41:BF:81:PRO:O	41:BF:82:ILE:O	2.29	0.51
41:BF:185:ASP:HA	41:BF:188:ARG:CG	2.40	0.51
42:BG:71:THR:CB	42:BG:89:GLY:O	2.56	0.51
43:BH:64:LEU:O	43:BH:67:LEU:HB3	2.10	0.51
43:BH:66:GLY:HA2	43:BH:69:ARG:CB	2.39	0.51
50:BR:2:ARG:HD2	50:BR:2:ARG:C	2.31	0.51
51:BS:66:ALA:CA	51:BS:99:LYS:HD3	2.40	0.51
51:BS:106:ARG:HH21	51:BS:109:GLY:N	2.08	0.51
52:BT:1:MET:O	52:BT:1:MET:HG3	2.09	0.51
52:BT:28:VAL:O	52:BT:29:ARG:CD	2.48	0.51
52:BT:65:LYS:NZ	52:BT:65:LYS:HA	2.25	0.51
53:BU:66:ASN:HA	53:BU:69:CYS:SG	2.51	0.51
54:BV:23:GLU:O	54:BV:24:LYS:O	2.28	0.51
55:BW:41:LYS:C	55:BW:43:GLY:N	2.64	0.51
55:BW:71:VAL:C	55:BW:73:ALA:H	2.13	0.51
55:BW:96:ILE:O	55:BW:96:ILE:HG23	2.10	0.51
56:BX:10:ALA:HB1	56:BX:11:PRO:CD	2.40	0.51
57:BY:86:ARG:NH2	57:BY:95:LYS:NZ	2.58	0.51
58:BZ:119:GLU:HG3	58:BZ:122:ARG:HH11	1.75	0.51
58:BZ:151:HIS:HB3	58:BZ:171:ILE:HG12	1.92	0.51
1:CA:647:C:O2'	1:CA:648:A:H5'	2.10	0.51
1:CA:798:G:H2'	1:CA:799:G:O5'	2.11	0.51
1:CA:951:G:C2	1:CA:952:U:C2	2.99	0.51
1:CA:1089:G:O2'	1:CA:1090:U:H5'	2.10	0.51
1:CA:1431:C:O2'	1:CA:1432:G:H5'	2.10	0.51
3:CC:134:ILE:CG2	3:CC:168:ALA:HB3	2.40	0.51
4:CD:9:CYS:SG	4:CD:32:ALA:CB	2.99	0.51
4:CD:119:GLN:O	4:CD:123:HIS:HD2	1.93	0.51
9:CI:87:GLN:C	9:CI:89:ASN:H	2.13	0.51
13:CM:19:LEU:HD12	13:CM:25:ILE:HD13	1.93	0.51
16:CP:82:GLN:O	16:CP:83:GLU:HB2	2.11	0.51
18:CR:69:THR:O	18:CR:72:ARG:N	2.43	0.51
22:CV:44:G:O2'	22:CV:45:U:H5'	2.09	0.51
24:CY:37:YG:O2'	24:CY:38:A:H5'	2.10	0.51
24:CY:60:U:H5''	24:CY:61:C:H5	1.76	0.51
25:CZ:317:GLU:HG3	25:CZ:404:LEU:CD2	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:14:ARG:NH2	36:DA:78:A:H5'	2.16	0.51
31:D5:13:LYS:NZ	36:DA:516:C:P	2.83	0.51
35:D9:35:ARG:NH1	36:DA:2741:A:O3'	2.43	0.51
36:DA:218:A:O2'	36:DA:219:G:H5'	2.10	0.51
36:DA:926:A:H5'	36:DA:926:A:C8	2.36	0.51
36:DA:1059:G:H21	45:DK:126:UNK:HA	1.74	0.51
36:DA:1386:C:H2'	36:DA:1387:C:H6	1.74	0.51
36:DA:1825:A:H4'	39:DD:233:HIS:HE1	1.76	0.51
36:DA:1911:U:H2'	36:DA:1912:A:H5'	1.92	0.51
36:DA:2206:G:C2	36:DA:2207:G:H5'	2.46	0.51
37:DB:44:G:H4'	37:DB:45:A:N7	2.24	0.51
39:DD:70:TRP:HZ3	39:DD:146:GLU:CD	2.14	0.51
39:DD:145:VAL:HG12	39:DD:146:GLU:N	2.26	0.51
40:DE:107:THR:C	40:DE:190:GLY:HA2	2.31	0.51
41:DF:28:ILE:HD13	41:DF:28:ILE:N	2.25	0.51
41:DF:107:LYS:O	41:DF:110:LEU:HB3	2.10	0.51
42:DG:165:THR:HG23	42:DG:168:GLU:OE2	2.08	0.51
43:DH:125:VAL:O	43:DH:125:VAL:HG12	2.10	0.51
43:DH:127:GLU:OE1	43:DH:128:PRO:HD3	2.10	0.51
45:DK:58:UNK:O	45:DK:65:UNK:HA	2.10	0.51
48:DP:96:THR:H	48:DP:99:LEU:HD22	1.75	0.51
49:DQ:95:ALA:O	49:DQ:97:VAL:HG22	2.10	0.51
52:DT:92:GLY:C	52:DT:94:ALA:N	2.63	0.51
54:DV:16:PRO:O	54:DV:96:ILE:HB	2.10	0.51
1:AA:90:U:H4'	1:AA:91:C:C6	2.44	0.51
1:AA:235:C:H1'	17:AQ:61:GLU:OE1	2.10	0.51
1:AA:438:G:C4'	4:AD:123:HIS:HD1	2.22	0.51
1:AA:607:A:H2'	1:AA:608:A:O4'	2.10	0.51
1:AA:706:A:O2'	11:AK:31:THR:HB	2.09	0.51
1:AA:811:C:H4'	1:AA:900:A:H62	1.72	0.51
1:AA:1353:G:H2'	1:AA:1354:C:H6	1.74	0.51
1:AA:1520:G:O2'	1:AA:1521:G:C5'	2.58	0.51
3:AC:58:GLU:O	3:AC:59:ARG:HG3	2.10	0.51
13:AM:14:ARG:HG3	13:AM:44:ARG:CZ	2.40	0.51
15:AO:87:ILE:HG22	15:AO:88:ARG:N	2.15	0.51
24:AY:24:G:H2'	24:AY:25:C:H6	1.75	0.51
25:AZ:97:ALA:HA	25:AZ:126:VAL:CG1	2.39	0.51
25:AZ:324:LYS:HA	25:AZ:365:GLY:N	2.25	0.51
28:B2:3:LEU:HD12	36:BA:98:G:H5''	1.93	0.51
28:B2:6:VAL:HA	28:B2:9:GLN:OE1	2.10	0.51
31:B5:3:LYS:HA	31:B5:3:LYS:CE	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:37:SER:O	34:B8:41:ILE:HG22	2.11	0.51
36:BA:534:U:H5'	53:BU:42:ALA:CB	2.40	0.51
36:BA:613:G:H5'	36:BA:613:G:H8	1.76	0.51
36:BA:708:C:H42	36:BA:723:G:H1	1.58	0.51
36:BA:1064:C:C2'	36:BA:1065:U:H5''	2.40	0.51
36:BA:1087:G:N2	36:BA:1103:A:H61	2.07	0.51
36:BA:1248:G:OP1	41:BF:92:PRO:HG3	2.09	0.51
36:BA:1542:A:C8	36:BA:1544:A:H5'	2.46	0.51
36:BA:1669:A:OP2	36:BA:1670:C:OP2	2.28	0.51
36:BA:2038:G:H2'	36:BA:2039:C:O4'	2.10	0.51
36:BA:2107:C:C2	36:BA:2108:C:C5	2.99	0.51
36:BA:2589:A:H2'	36:BA:2590:A:O4'	2.10	0.51
36:BA:2690:C:H4'	36:BA:2872:G:H21	1.73	0.51
38:BC:50:ASP:OD1	38:BC:51:PRO:HD2	2.11	0.51
38:BC:116:THR:HG22	38:BC:147:PHE:HA	1.93	0.51
39:BD:35:LYS:HB2	39:BD:104:TYR:CE1	2.46	0.51
39:BD:227:ASN:HB3	39:BD:228:PRO:HD2	1.92	0.51
40:BE:132:HIS:HD2	40:BE:135:HIS:NE2	2.07	0.51
41:BF:7:TYR:HD2	41:BF:16:GLY:N	2.08	0.51
41:BF:28:ILE:H	41:BF:28:ILE:CD1	2.20	0.51
43:BH:94:TYR:HE2	43:BH:152:ARG:HG2	1.75	0.51
46:BN:3:THR:C	46:BN:4:TYR:CG	2.83	0.51
48:BP:22:GLY:O	48:BP:29:LYS:HB2	2.11	0.51
50:BR:37:THR:HG23	50:BR:40:LYS:HE2	1.91	0.51
50:BR:87:TYR:O	50:BR:89:ASP:N	2.40	0.51
52:BT:89:VAL:CB	52:BT:91:ARG:HE	2.23	0.51
53:BU:94:ASN:C	53:BU:96:ALA:H	2.12	0.51
54:BV:5:VAL:O	54:BV:11:GLN:HA	2.11	0.51
54:BV:13:ARG:HG3	54:BV:13:ARG:HH11	1.74	0.51
54:BV:46:VAL:O	54:BV:46:VAL:HG13	2.11	0.51
58:BZ:54:HIS:CD2	58:BZ:101:PRO:HD3	2.46	0.51
58:BZ:61:LEU:C	58:BZ:63:ASP:H	2.13	0.51
58:BZ:102:LEU:HD11	58:BZ:124:ILE:HG21	1.92	0.51
1:CA:64:G:H5''	1:CA:65:U:OP1	2.10	0.51
1:CA:658:G:H2'	1:CA:659:U:H6	1.75	0.51
1:CA:854:G:H3'	1:CA:871:U:O4	2.10	0.51
1:CA:922:G:H2'	1:CA:923:A:C8	2.45	0.51
1:CA:972:C:O3'	10:CJ:57:LYS:HG2	2.10	0.51
1:CA:1191:A:P	3:CC:4:LYS:HZ3	2.34	0.51
1:CA:1329:A:P	13:CM:28:ALA:HB3	2.50	0.51
1:CA:1399:C:H4'	1:CA:1400:C:O5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1429:C:O2'	36:DA:1704:G:H5'	2.10	0.51
1:CA:1487:G:H2'	1:CA:1488:G:H8	1.75	0.51
5:CE:143:ARG:HG3	5:CE:143:ARG:HH11	1.74	0.51
7:CG:22:LEU:HD23	7:CG:22:LEU:C	2.30	0.51
8:CH:119:LEU:HB3	8:CH:123:GLU:HB2	1.91	0.51
9:CI:18:PHE:O	9:CI:61:ALA:HA	2.11	0.51
9:CI:65:VAL:HG11	9:CI:73:GLN:NE2	2.26	0.51
11:CK:77:MET:O	11:CK:78:GLN:HG2	2.11	0.51
13:CM:40:ASN:ND2	13:CM:43:THR:HG23	2.25	0.51
19:CS:28:LYS:O	19:CS:29:ARG:HG3	2.10	0.51
19:CS:62:ILE:HD12	19:CS:66:MET:CE	2.38	0.51
21:CU:4:GLY:O	21:CU:6:ARG:N	2.42	0.51
22:CV:53:G:H1	22:CV:61:C:N4	1.91	0.51
22:CW:24:G:H2'	22:CW:25:C:C6	2.45	0.51
25:CZ:126:VAL:HA	63:CZ:502:KIR:H473	1.90	0.51
26:D0:22:GLY:C	26:D0:38:VAL:HG13	2.30	0.51
32:D6:35:GLU:CB	32:D6:51:GLU:HG3	2.41	0.51
33:D7:8:ASN:HB3	33:D7:11:LYS:HB3	1.92	0.51
36:DA:205:G:O2'	36:DA:206:U:OP2	2.27	0.51
36:DA:272(I):U:C2'	36:DA:272(J):C:H5'	2.40	0.51
36:DA:515:A:H2'	36:DA:516:C:O4'	2.10	0.51
36:DA:646:A:H3'	36:DA:647:G:H8	1.76	0.51
36:DA:713:G:H2'	36:DA:714:U:C6	2.45	0.51
36:DA:1451:C:OP2	36:DA:1451:C:H6	1.94	0.51
36:DA:1932:A:H2'	36:DA:1933:G:O4'	2.10	0.51
36:DA:2138:C:H2'	36:DA:2139:C:C6	2.45	0.51
36:DA:2188:C:H2'	36:DA:2189:U:N1	2.25	0.51
36:DA:2246:G:C8	36:DA:2426:A:C6	2.99	0.51
36:DA:2281:C:H2'	36:DA:2282:G:C8	2.45	0.51
36:DA:2286:A:C2	36:DA:2346:A:N6	2.79	0.51
36:DA:2292:C:H42	36:DA:2340:G:H1	1.58	0.51
36:DA:2654:A:O2'	36:DA:2655:G:H4'	2.10	0.51
42:DG:82:LEU:HD22	42:DG:87:PRO:CG	2.38	0.51
43:DH:34:GLU:O	43:DH:36:PRO:HD3	2.11	0.51
43:DH:37:VAL:HG11	43:DH:68:THR:HG21	1.92	0.51
45:DK:14:UNK:CB	45:DK:50:UNK:HA	2.41	0.51
46:DN:93:THR:O	46:DN:93:THR:HG23	2.10	0.51
47:DO:77:ILE:HD13	52:DT:74:ARG:HG2	1.93	0.51
49:DQ:32:TYR:HE2	49:DQ:111:GLU:HG3	1.72	0.51
49:DQ:48:GLU:HG2	49:DQ:52:VAL:CG2	2.40	0.51
50:DR:42:LYS:O	50:DR:45:ARG:CG	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:84:GLN:HA	51:DS:105:ALA:HB3	1.93	0.51
54:DV:52:VAL:HG13	54:DV:55:ALA:CB	2.32	0.51
55:DW:41:LYS:C	55:DW:43:GLY:N	2.61	0.51
56:DX:10:ALA:HB3	56:DX:29:TRP:CD1	2.44	0.51
57:DY:13:VAL:HG22	57:DY:14:LEU:H	1.73	0.51
58:DZ:103:ARG:O	58:DZ:103:ARG:HG2	2.10	0.51
58:DZ:165:VAL:CG1	58:DZ:166:SER:N	2.70	0.51
1:AA:51:A:H4'	1:AA:52:G:C5'	2.40	0.51
1:AA:117:G:O6	1:AA:289:G:C1'	2.53	0.51
1:AA:436:C:H4'	4:AD:157:LEU:CD1	2.41	0.51
1:AA:539:A:H2'	1:AA:540:G:C8	2.45	0.51
1:AA:614:A:C2	1:AA:627:G:C2	2.98	0.51
1:AA:932:C:H2'	1:AA:933:G:C8	2.46	0.51
1:AA:1208:C:N3	1:AA:1209:C:C4	2.79	0.51
1:AA:1249:C:O4'	9:AI:70:LYS:HE2	2.11	0.51
1:AA:1278:U:H5''	1:AA:1279:A:O4'	2.11	0.51
1:AA:1423:G:C2'	1:AA:1424:C:H6	2.19	0.51
2:AB:204:ASN:ND2	2:AB:206:ASP:N	2.53	0.51
4:AD:79:PHE:CE2	4:AD:207:TYR:HD1	2.29	0.51
6:AF:37:VAL:CG1	6:AF:38:GLU:N	2.73	0.51
8:AH:19:VAL:O	8:AH:20:TYR:C	2.48	0.51
9:AI:87:GLN:C	9:AI:89:ASN:H	2.13	0.51
10:AJ:12:ASP:O	10:AJ:14:LYS:N	2.43	0.51
10:AJ:40:LEU:HG	10:AJ:69:ASN:CB	2.41	0.51
10:AJ:67:THR:CG2	10:AJ:67:THR:O	2.56	0.51
12:AL:11:VAL:HG11	17:AQ:36:ILE:HG21	1.91	0.51
16:AP:58:TYR:CD1	16:AP:58:TYR:C	2.84	0.51
20:AT:57:ARG:NH1	20:AT:57:ARG:CB	2.72	0.51
27:B1:62:VAL:HG11	27:B1:67:ILE:HG23	1.92	0.51
28:B2:3:LEU:CD2	28:B2:3:LEU:C	2.78	0.51
35:B9:18:ARG:O	35:B9:19:ARG:HB3	2.11	0.51
36:BA:150:C:O2'	36:BA:151:C:H5'	2.10	0.51
36:BA:272(B):G:H2'	36:BA:272(C):G:C8	2.43	0.51
36:BA:425:G:H2'	36:BA:426:C:H6	1.75	0.51
36:BA:440:G:H22	41:BF:46:ARG:HH21	1.57	0.51
36:BA:598:G:H2'	36:BA:599:G:O4'	2.10	0.51
36:BA:1277:G:C2	36:BA:1294:U:O2	2.63	0.51
36:BA:1378:A:O2'	36:BA:1379:A:C5'	2.53	0.51
36:BA:1528:A:O2'	36:BA:1528(A):A:O5'	2.24	0.51
36:BA:1601:G:O2'	36:BA:1602:U:H5'	2.09	0.51
36:BA:2306:C:N4	36:BA:2311:A:C8	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2776:A:H4'	36:BA:2777:G:H5''	1.92	0.51
38:BC:99:ILE:CG2	38:BC:102:LYS:HZ3	2.17	0.51
40:BE:120:TRP:CB	40:BE:155:LYS:HE3	2.40	0.51
41:BF:31:HIS:CD2	48:BP:13:ASN:HB2	2.45	0.51
41:BF:46:ARG:NH1	41:BF:46:ARG:CG	2.71	0.51
42:BG:93:THR:HG22	42:BG:94:LEU:N	2.24	0.51
42:BG:174:GLU:HG2	42:BG:175:LEU:HD23	1.92	0.51
43:BH:58:GLU:O	43:BH:62:LYS:HB2	2.10	0.51
48:BP:14:LYS:O	48:BP:15:ARG:HB2	2.10	0.51
57:BY:74:PRO:O	57:BY:75:ILE:HB	2.11	0.51
58:BZ:71:VAL:HA	58:BZ:87:ASP:O	2.11	0.51
58:BZ:80:ARG:O	58:BZ:81:ARG:O	2.29	0.51
1:CA:110:C:C2	1:CA:111:G:C8	2.99	0.51
1:CA:175:C:H4'	20:CT:25:ARG:NH1	2.26	0.51
1:CA:351:G:C4'	1:CA:352:C:OP1	2.54	0.51
1:CA:389:A:C2'	1:CA:390:C:H5'	2.35	0.51
1:CA:660:G:H2'	1:CA:661:G:C8	2.41	0.51
1:CA:1344:C:H1'	1:CA:1349:A:H4'	1.93	0.51
1:CA:1352:C:O2	1:CA:1371:G:C2	2.63	0.51
2:CB:168:THR:CG2	2:CB:192:SER:HA	2.40	0.51
3:CC:48:TYR:O	3:CC:50:ALA:N	2.44	0.51
4:CD:17:VAL:HG21	4:CD:63:LYS:HZ2	1.75	0.51
8:CH:92:ARG:HB3	8:CH:94:TYR:HE1	1.74	0.51
22:CW:65:G:O2'	22:CW:66:U:H5'	2.10	0.51
22:CW:70:G:H5'	22:CW:70:G:H8	1.76	0.51
24:CY:20:H2U:HN3	36:DA:1066:U:H3	1.57	0.51
25:CZ:12:VAL:HG13	25:CZ:100:ASP:OD2	2.10	0.51
25:CZ:221:PHE:HA	25:CZ:244:ARG:O	2.10	0.51
25:CZ:399:VAL:O	25:CZ:399:VAL:HG13	2.10	0.51
27:D1:93:GLU:C	27:D1:94:LEU:HD12	2.31	0.51
31:D5:10:LYS:HG3	36:DA:1263:U:H1'	1.91	0.51
36:DA:17:G:H21	36:DA:555:U:C5'	2.24	0.51
36:DA:53:A:H62	36:DA:117:G:H21	1.58	0.51
36:DA:425:G:H2'	36:DA:426:C:C6	2.45	0.51
36:DA:906:G:O2'	49:DQ:67:ARG:NH2	2.43	0.51
36:DA:1196:C:O4'	36:DA:1226:A:C2	2.64	0.51
36:DA:1403:C:H2'	36:DA:1404:C:O5'	2.11	0.51
36:DA:1471:A:H3'	36:DA:1472:A:H8	1.75	0.51
36:DA:1827:C:O2'	36:DA:1828:G:H5'	2.11	0.51
36:DA:2053:G:H2'	36:DA:2054:A:O4'	2.10	0.51
36:DA:2408:U:H2'	36:DA:2409:G:C8	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2422:A:H3'	36:DA:2422:A:H8	1.75	0.51
36:DA:2758:A:C2	36:DA:2759:G:H1'	2.43	0.51
36:DA:2766:G:H2'	36:DA:2766:G:N3	2.25	0.51
36:DA:2838:G:H4'	50:DR:45:ARG:HD3	1.91	0.51
38:DC:1:PRO:C	38:DC:3:HIS:H	2.13	0.51
38:DC:100:ILE:CG2	38:DC:126:LYS:HB3	2.36	0.51
42:DG:76:SER:HA	42:DG:83:ARG:HA	1.92	0.51
43:DH:90:LYS:HB3	43:DH:159:GLU:OE2	2.10	0.51
43:DH:149:ARG:HD3	43:DH:164:TYR:HD1	1.75	0.51
47:DO:105:GLU:HA	47:DO:108:GLU:OE1	2.09	0.51
49:DQ:90:VAL:HG12	49:DQ:91:GLU:H	1.75	0.51
50:DR:4:LEU:HG	50:DR:4:LEU:O	2.09	0.51
50:DR:4:LEU:HD12	50:DR:6:SER:O	2.09	0.51
52:DT:2:ASN:O	52:DT:3:ARG:HG2	2.11	0.51
52:DT:79:HIS:O	52:DT:80:SER:HB3	2.10	0.51
54:DV:28:GLU:HB3	54:DV:29:PRO:HD2	1.92	0.51
57:DY:46:LYS:CB	57:DY:62:GLU:HG2	2.40	0.51
57:DY:95:LYS:CG	57:DY:100:ALA:HA	2.29	0.51
1:AA:59:A:N1	1:AA:331:G:H1'	2.25	0.51
1:AA:665:A:C8	1:AA:725:G:C2	2.99	0.51
1:AA:746:A:O2'	1:AA:747:C:H5'	2.11	0.51
1:AA:1160:G:O6	1:AA:1181:G:C6	2.63	0.51
1:AA:1494:G:H4'	36:BA:1913:A:C8	2.46	0.51
2:AB:155:LEU:CD2	2:AB:159:PRO:HG3	2.41	0.51
2:AB:166:ASP:HB2	2:AB:205:ASP:OD2	2.10	0.51
3:AC:29:TYR:OH	14:AN:54:PRO:HB2	2.10	0.51
3:AC:90:GLU:CA	3:AC:93:LYS:HB3	2.38	0.51
4:AD:120:LEU:HB3	4:AD:126:ILE:HD13	1.92	0.51
6:AF:79:LEU:HD12	6:AF:88:VAL:HG11	1.93	0.51
6:AF:89:MET:SD	18:AR:76:LEU:HD21	2.50	0.51
9:AI:102:LEU:O	9:AI:102:LEU:HD23	2.10	0.51
10:AJ:51:ARG:NE	10:AJ:61:GLU:HB2	2.25	0.51
14:AN:9:LYS:HA	14:AN:12:ARG:NH2	2.25	0.51
18:AR:38:GLU:OE2	18:AR:38:GLU:HA	2.11	0.51
24:AY:23:A:H2'	24:AY:24:G:C8	2.45	0.51
25:AZ:146:LEU:N	25:AZ:149:LEU:HD23	2.25	0.51
25:AZ:171:ILE:HG23	25:AZ:201:GLU:OE1	2.10	0.51
26:B0:22:GLY:C	26:B0:38:VAL:HG13	2.31	0.51
29:B3:50:VAL:HA	29:B3:52:HIS:CE1	2.46	0.51
31:B5:38:ALA:HB1	31:B5:48:GLU:HB3	1.92	0.51
35:B9:12:ASP:O	35:B9:14:CYS:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:67:U:O2'	36:BA:68:G:H5'	2.11	0.51
36:BA:95:G:H2'	36:BA:96:G:O4'	2.10	0.51
36:BA:116:C:H2'	36:BA:117:G:H8	1.71	0.51
36:BA:185:U:H2'	36:BA:186:G:H8	1.75	0.51
36:BA:247:G:H1'	36:BA:251:A:H62	1.76	0.51
36:BA:483:A:H1'	57:BY:60:PHE:HZ	1.73	0.51
36:BA:719:C:O2'	36:BA:720:C:H5'	2.10	0.51
36:BA:1192:G:C6	48:BP:29:LYS:NZ	2.79	0.51
36:BA:1268:A:H2'	36:BA:1269:A:C8	2.45	0.51
36:BA:1473:G:O6	36:BA:1519:G:N2	2.41	0.51
36:BA:1825:A:H4'	39:BD:233:HIS:CE1	2.46	0.51
36:BA:2137:C:H2'	36:BA:2138:C:H6	1.75	0.51
36:BA:2316:C:C2	36:BA:2317:C:C5	2.99	0.51
36:BA:2447:G:C6	36:BA:2501:C:C2	2.99	0.51
36:BA:2683:C:N4	36:BA:2727:G:H21	2.09	0.51
36:BA:2688:U:O2	36:BA:2688:U:C3'	2.58	0.51
36:BA:2713:A:H3'	36:BA:2714:G:H5'	1.93	0.51
38:BC:196:LEU:O	38:BC:198:ALA:N	2.44	0.51
39:BD:27:THR:CG2	39:BD:82:ILE:O	2.58	0.51
39:BD:132:PRO:O	39:BD:136:ILE:HD13	2.11	0.51
41:BF:25:PRO:HB3	41:BF:119:ARG:CA	2.41	0.51
41:BF:51:THR:CG2	41:BF:92:PRO:HD2	2.40	0.51
42:BG:43:LEU:HD11	42:BG:153:ARG:CB	2.41	0.51
42:BG:110:ALA:CB	42:BG:140:ILE:HD13	2.41	0.51
46:BN:14:VAL:CG1	46:BN:137:LYS:HG3	2.41	0.51
50:BR:98:LEU:O	50:BR:113:LEU:N	2.44	0.51
51:BS:24:LEU:CD1	51:BS:41:ASP:HB2	2.41	0.51
51:BS:29:PHE:C	51:BS:29:PHE:CD2	2.84	0.51
52:BT:27:THR:O	52:BT:28:VAL:CG2	2.52	0.51
52:BT:55:ASN:N	52:BT:59:THR:HG22	2.07	0.51
53:BU:33:ARG:O	53:BU:36:ARG:HB3	2.10	0.51
53:BU:65:ILE:HG13	53:BU:96:ALA:HB1	1.91	0.51
54:BV:70:ILE:HD12	54:BV:87:HIS:HD2	1.75	0.51
57:BY:13:VAL:HG22	57:BY:73:ARG:O	2.11	0.51
57:BY:13:VAL:HG22	57:BY:14:LEU:H	1.74	0.51
58:BZ:86:VAL:O	58:BZ:87:ASP:OD1	2.29	0.51
58:BZ:128:VAL:CG2	58:BZ:129:SER:H	2.20	0.51
58:BZ:149:SER:HB3	58:BZ:172:ALA:O	2.10	0.51
1:CA:192:U:H1'	20:CT:103:GLY:O	2.11	0.51
7:CG:65:ALA:HA	7:CG:128:ALA:HA	1.93	0.51
10:CJ:29:ARG:HG2	10:CJ:29:ARG:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:25:TYR:CE1	11:CK:87:THR:HB	2.44	0.51
21:CU:10:ARG:O	21:CU:11:GLY:C	2.48	0.51
22:CV:33:U:O2	22:CV:35:A:H3'	2.11	0.51
22:CW:56:C:P	38:DC:164:ARG:HH22	2.33	0.51
24:CY:69:C:H2'	24:CY:70:A:H8	1.75	0.51
25:CZ:67:HIS:CE1	25:CZ:98:GLN:HE22	2.14	0.51
25:CZ:221:PHE:CD1	25:CZ:247:VAL:HG13	2.45	0.51
26:D0:77:ARG:C	26:D0:78:TYR:CD1	2.84	0.51
28:D2:38:GLN:HB3	28:D2:44:LEU:HD22	1.93	0.51
30:D4:16:CYS:HA	30:D4:33:VAL:CG1	2.41	0.51
30:D4:22:ILE:H	30:D4:22:ILE:CD1	1.99	0.51
32:D6:6:ARG:C	32:D6:8:LYS:H	2.14	0.51
33:D7:1:MET:N	36:DA:1619:G:O2'	2.43	0.51
36:DA:479:A:O2'	36:DA:481:G:C5'	2.58	0.51
36:DA:662:G:H5'	48:DP:18:ARG:C	2.31	0.51
36:DA:833:U:O2	48:DP:55:ARG:NH1	2.43	0.51
36:DA:977:G:O2'	36:DA:978:G:H5'	2.10	0.51
36:DA:1154:G:H5''	53:DU:59:ARG:NH2	2.26	0.51
36:DA:1307:A:N3	36:DA:1307:A:H2'	2.25	0.51
36:DA:1344:G:H4'	36:DA:1384:A:N7	2.26	0.51
36:DA:1386:C:H2'	36:DA:1387:C:C6	2.46	0.51
36:DA:2314:C:H6	36:DA:2314:C:O5'	1.94	0.51
36:DA:2358:G:C2'	36:DA:2359:C:H5'	2.40	0.51
37:DB:83:G:O2'	37:DB:84:C:H5'	2.11	0.51
38:DC:81:GLU:O	38:DC:85:GLU:HB3	2.11	0.51
38:DC:116:THR:HG22	38:DC:147:PHE:HA	1.93	0.51
40:DE:174:ASP:OD2	40:DE:175:VAL:N	2.44	0.51
41:DF:60:SER:O	41:DF:77:ASP:HB2	2.11	0.51
41:DF:82:ILE:O	41:DF:83:PHE:HB2	2.08	0.51
41:DF:111:ALA:O	41:DF:115:ALA:N	2.44	0.51
41:DF:158:THR:HB	41:DF:195:ASP:HB3	1.91	0.51
42:DG:162:THR:O	42:DG:164:GLU:OE2	2.28	0.51
46:DN:2:LYS:NZ	54:DV:12:TYR:HA	2.25	0.51
46:DN:67:LEU:O	46:DN:68:GLU:CB	2.58	0.51
47:DO:71:ARG:NE	47:DO:105:GLU:OE2	2.41	0.51
49:DQ:109:VAL:CG1	49:DQ:110:THR:H	2.23	0.51
50:DR:75:LEU:O	50:DR:75:LEU:HD13	2.10	0.51
52:DT:85:LYS:HB3	52:DT:85:LYS:HZ2	1.76	0.51
52:DT:129:ARG:NH1	52:DT:131:ALA:HB3	2.26	0.51
53:DU:52:ARG:HG2	53:DU:55:ARG:HH12	1.76	0.51
1:AA:38:G:H22	1:AA:397:A:C5'	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:428:G:H4'	1:AA:429:U:O5'	2.10	0.51
1:AA:505:G:C6	1:AA:535:A:C2	2.99	0.51
1:AA:777:A:H2'	1:AA:778:G:H8	1.76	0.51
1:AA:1190:G:OP1	3:AC:5:ILE:HD12	2.10	0.51
2:AB:130:ARG:NH2	2:AB:134:GLU:HG3	2.25	0.51
5:AE:67:VAL:HG22	5:AE:68:GLU:N	2.25	0.51
5:AE:79:GLU:HA	5:AE:92:LYS:HA	1.92	0.51
5:AE:79:GLU:HB3	5:AE:92:LYS:HG3	1.93	0.51
8:AH:112:LEU:HA	8:AH:134:ILE:HG12	1.92	0.51
10:AJ:40:LEU:CB	10:AJ:41:PRO:HD2	2.32	0.51
12:AL:7:ILE:HD12	12:AL:7:ILE:H	1.76	0.51
12:AL:34:ARG:HG2	12:AL:35:GLY:N	2.25	0.51
20:AT:26:ASN:HB3	20:AT:71:THR:OG1	2.11	0.51
20:AT:81:LYS:O	20:AT:83:ARG:N	2.44	0.51
25:AZ:219:LYS:HB3	25:AZ:220:PRO:CD	2.40	0.51
25:AZ:271:GLU:HG2	25:AZ:276:THR:CA	2.37	0.51
25:AZ:290:LEU:O	25:AZ:293:VAL:HG22	2.09	0.51
28:B2:35:LEU:HD21	28:B2:50:ILE:HD11	1.91	0.51
30:B4:20:ASN:C	30:B4:20:ASN:ND2	2.63	0.51
31:B5:52:TYR:HE2	36:BA:2884:U:O2	1.94	0.51
36:BA:230:U:O2'	36:BA:231:C:H5'	2.11	0.51
36:BA:564:C:O2'	36:BA:565:C:H5'	2.10	0.51
36:BA:591:C:H2'	36:BA:592:G:H8	1.76	0.51
36:BA:877:U:O2'	36:BA:878:A:H5''	2.10	0.51
36:BA:961:C:C5	36:BA:2031:A:C2	2.98	0.51
36:BA:1012:U:O4	46:BN:28:THR:HG21	2.11	0.51
36:BA:1277:G:O2'	36:BA:1278:A:H5'	2.10	0.51
36:BA:1307:A:N3	36:BA:1307:A:H2'	2.25	0.51
36:BA:1410:G:H2'	36:BA:1411:C:H6	1.75	0.51
36:BA:1902:C:C2'	36:BA:1903:G:O5'	2.59	0.51
36:BA:2103:C:H2'	36:BA:2104:G:C5'	2.40	0.51
36:BA:2259:G:C2	36:BA:2282:G:N1	2.78	0.51
36:BA:2306:C:H4'	42:BG:136:ARG:NH1	2.25	0.51
36:BA:2352:A:C5	36:BA:2366:A:N1	2.79	0.51
36:BA:2529:G:OP2	36:BA:2530:A:H8	1.93	0.51
37:BB:74:U:H2'	37:BB:75:G:H1'	1.92	0.51
40:BE:56:PRO:O	40:BE:57:LYS:HB2	2.10	0.51
40:BE:61:ARG:HG2	40:BE:62:PRO:HD3	1.91	0.51
40:BE:82:ARG:O	40:BE:83:ASP:C	2.48	0.51
46:BN:35:ARG:O	46:BN:36:GLY:C	2.48	0.51
47:BO:71:ARG:HB3	47:BO:72:PRO:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:87:LYS:O	49:BQ:88:GLY:O	2.29	0.51
50:BR:59:ASP:O	50:BR:60:LEU:C	2.49	0.51
53:BU:37:GLU:HA	53:BU:40:PHE:HD1	1.75	0.51
55:BW:10:VAL:HB	55:BW:101:SER:O	2.11	0.51
57:BY:28:LYS:O	57:BY:38:ILE:HG22	2.10	0.51
58:BZ:22:GLY:O	58:BZ:23:LYS:O	2.27	0.51
58:BZ:39:VAL:O	58:BZ:40:ASP:O	2.29	0.51
1:CA:34:C:H1'	12:CL:32:PHE:CE2	2.46	0.51
1:CA:391:G:C2'	1:CA:392:G:O5'	2.58	0.51
1:CA:436:C:H4'	4:CD:157:LEU:CD1	2.40	0.51
1:CA:1253:G:O2'	1:CA:1254:C:H5'	2.10	0.51
1:CA:1278:U:H5''	1:CA:1279:A:O4'	2.10	0.51
1:CA:1279:A:H2	10:CJ:43:ARG:HH12	1.58	0.51
1:CA:1504:G:H4'	1:CA:1505:G:C5'	2.41	0.51
3:CC:152:ILE:HG22	3:CC:153:VAL:N	2.26	0.51
4:CD:200:GLU:HG2	4:CD:201:GLN:N	2.26	0.51
5:CE:44:GLY:O	5:CE:58:ALA:HB1	2.11	0.51
6:CF:32:ASN:C	6:CF:34:GLY:H	2.14	0.51
7:CG:137:LYS:O	7:CG:138:LYS:C	2.47	0.51
10:CJ:40:LEU:HG	10:CJ:69:ASN:CB	2.40	0.51
12:CL:10:LEU:HB3	17:CQ:32:TYR:CE1	2.46	0.51
13:CM:102:ARG:HD3	13:CM:105:THR:OG1	2.11	0.51
16:CP:23:ASP:OD1	16:CP:25:ARG:NH1	2.44	0.51
18:CR:44:LEU:O	18:CR:45:SER:C	2.48	0.51
22:CV:11:C:O2'	36:DA:1909:C:H1'	2.10	0.51
25:CZ:21:ASP:N	62:CZ:501:GDP:O1B	2.41	0.51
27:D1:4:VAL:CG2	27:D1:5:CYS:N	2.73	0.51
29:D3:7:LYS:O	29:D3:54:VAL:HG13	2.11	0.51
34:D8:50:LEU:N	34:D8:53:PRO:HG3	2.25	0.51
36:DA:24:G:H1'	55:DW:77:ASP:OD1	2.10	0.51
36:DA:442:G:C4'	41:DF:46:ARG:HD3	2.41	0.51
36:DA:588:U:H1'	41:DF:90:PHE:CD2	2.45	0.51
36:DA:654(T):C:O2'	36:DA:654(U):A:H5'	2.10	0.51
36:DA:676:A:C8	36:DA:2443:C:H1'	2.36	0.51
36:DA:695:G:OP1	36:DA:1380:G:C4'	2.49	0.51
36:DA:775:G:C5	36:DA:794:G:C8	2.99	0.51
36:DA:896:A:C8	58:DZ:146:ILE:HG21	2.46	0.51
36:DA:1298:C:H1'	36:DA:1302:A:N3	2.25	0.51
36:DA:1902:C:C2'	36:DA:1903:G:O5'	2.59	0.51
36:DA:2158:A:H4'	36:DA:2159:G:OP1	2.11	0.51
38:DC:132:GLY:HA2	38:DC:137:LEU:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:95:ILE:HD13	40:DE:95:ILE:H	1.74	0.51
42:DG:119:GLY:HA3	42:DG:181:ARG:N	2.25	0.51
42:DG:143:GLU:O	42:DG:144:ILE:C	2.48	0.51
43:DH:66:GLY:HA2	43:DH:69:ARG:CB	2.40	0.51
46:DN:29:LYS:O	46:DN:33:LEU:HD13	2.10	0.51
47:DO:104:ARG:HH22	47:DO:107:ARG:NH2	2.09	0.51
49:DQ:113:GLN:O	49:DQ:117:ALA:N	2.44	0.51
50:DR:100:LEU:CD2	50:DR:112:ALA:HA	2.41	0.51
52:DT:70:VAL:CG1	52:DT:71:GLY:N	2.73	0.51
57:DY:77:PRO:O	57:DY:78:ALA:HB2	2.10	0.51
1:AA:63:C:N4	1:AA:104:G:H1	2.02	0.51
1:AA:192:U:C1'	20:AT:103:GLY:HA2	2.41	0.51
1:AA:391:G:C2'	1:AA:392:G:O5'	2.59	0.51
1:AA:412:A:H5'	1:AA:413:G:OP1	2.11	0.51
1:AA:421:U:C6	3:AC:127:ARG:NH1	2.79	0.51
1:AA:734:G:H2'	1:AA:735:C:C6	2.46	0.51
1:AA:916:G:C2	1:AA:917:G:C8	2.98	0.51
1:AA:1406:U:H2'	1:AA:1407:C:H6	1.76	0.51
1:AA:1431:C:H2'	1:AA:1432:G:H5'	1.93	0.51
2:AB:87:ARG:HH21	2:AB:233:SER:H	1.58	0.51
4:AD:79:PHE:CA	4:AD:93:PHE:CE2	2.94	0.51
5:AE:75:THR:OG1	5:AE:76:ILE:N	2.43	0.51
6:AF:32:ASN:C	6:AF:34:GLY:H	2.13	0.51
10:AJ:51:ARG:H	10:AJ:60:ARG:HA	1.75	0.51
18:AR:24:ALA:O	18:AR:26:LEU:N	2.44	0.51
24:AY:36:U:O2'	24:AY:37:YG:H5''	2.11	0.51
24:AY:51:C:H2'	24:AY:52:A:H8	1.75	0.51
25:AZ:316:PHE:HD2	25:AZ:400:VAL:HG13	1.74	0.51
25:AZ:356:PRO:O	25:AZ:357:PRO:C	2.50	0.51
25:AZ:363:MET:HB3	25:AZ:364:PRO:CD	2.41	0.51
26:B0:39:ARG:NH2	36:BA:2354:G:H22	2.09	0.51
29:B3:7:LYS:O	29:B3:54:VAL:HG13	2.11	0.51
32:B6:27:LYS:HG3	32:B6:27:LYS:O	2.10	0.51
35:B9:8:LYS:O	35:B9:10:ILE:HD12	2.11	0.51
36:BA:61:G:H1	36:BA:94:C:N4	2.07	0.51
36:BA:208:C:H2'	36:BA:209:C:H6	1.76	0.51
36:BA:655:A:H1'	36:BA:656:G:O4'	2.09	0.51
36:BA:1493:C:H2'	36:BA:1493:C:O2	2.11	0.51
36:BA:1632:A:N6	36:BA:1633:G:N1	2.58	0.51
36:BA:1775:U:H2'	36:BA:1776:G:O4'	2.10	0.51
36:BA:1816:G:H8	39:BD:62:TYR:OH	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1970:A:H5''	36:BA:1971:A:OP1	2.11	0.51
36:BA:2369:A:H2'	36:BA:2370:G:H8	1.76	0.51
36:BA:2485:G:O2'	49:BQ:126:PRO:HA	2.11	0.51
36:BA:2875:C:C4'	52:BT:5:ALA:HB3	2.40	0.51
41:BF:33:LEU:CD1	41:BF:113:ALA:HB2	2.40	0.51
42:BG:161:THR:C	42:BG:163:ALA:N	2.61	0.51
48:BP:34:GLY:O	48:BP:35:HIS:HB2	2.10	0.51
49:BQ:26:TYR:HA	49:BQ:137:TYR:CD1	2.46	0.51
50:BR:45:ARG:CG	50:BR:46:GLY:H	2.06	0.51
58:BZ:28:MET:HG3	58:BZ:37:VAL:CG1	2.40	0.51
58:BZ:155:LEU:N	58:BZ:155:LEU:HD23	2.26	0.51
1:CA:511:C:H42	1:CA:540:G:H1	1.59	0.51
1:CA:745:C:O2'	1:CA:746:A:H5'	2.11	0.51
1:CA:1075:C:H4'	1:CA:1101:A:N6	2.26	0.51
2:CB:154:LEU:O	2:CB:156:LYS:HG3	2.10	0.51
2:CB:218:ALA:O	2:CB:222:ILE:HG12	2.11	0.51
3:CC:142:MET:C	3:CC:144:SER:N	2.64	0.51
4:CD:120:LEU:HB3	4:CD:126:ILE:HD13	1.92	0.51
5:CE:12:LEU:HD12	5:CE:31:LEU:HB3	1.93	0.51
5:CE:42:GLY:CA	5:CE:66:MET:HG2	2.41	0.51
5:CE:125:SER:OG	5:CE:126:ARG:N	2.42	0.51
11:CK:34:ASP:O	11:CK:36:ASP:N	2.38	0.51
11:CK:92:GLU:OE2	11:CK:95:ILE:HD12	2.11	0.51
13:CM:81:LEU:HB3	13:CM:89:GLY:HA2	1.92	0.51
16:CP:20:VAL:HG22	16:CP:21:VAL:H	1.75	0.51
22:CW:31:A:O2'	22:CW:32:U:H5'	2.11	0.51
27:D1:66:HIS:NE2	36:DA:372:G:H5'	2.26	0.51
28:D2:25:VAL:HA	28:D2:28:LYS:HB2	1.92	0.51
29:D3:45:GLY:HA2	29:D3:48:GLU:HG2	1.91	0.51
30:D4:35:VAL:HG12	42:DG:112:PRO:CG	2.41	0.51
30:D4:42:PHE:O	30:D4:43:TYR:O	2.29	0.51
36:DA:13:A:H2	36:DA:14:A:H62	1.54	0.51
36:DA:335:C:H2'	36:DA:336:C:C6	2.46	0.51
36:DA:601:C:H5'	41:DF:108:LYS:HE3	1.93	0.51
36:DA:1271:G:C2	36:DA:1617:C:H4'	2.46	0.51
36:DA:1523:U:H2'	36:DA:1524:G:O4'	2.10	0.51
36:DA:1654:A:OP2	50:DR:3:HIS:CD2	2.63	0.51
36:DA:1801:G:O2'	36:DA:1802:A:H5''	2.10	0.51
36:DA:2103:C:H2'	36:DA:2104:G:C5'	2.40	0.51
36:DA:2111:C:H2'	36:DA:2112:G:C5'	2.40	0.51
36:DA:2523:G:C3'	36:DA:2524:G:H5''	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2540:C:O2	36:DA:2740:A:H2	1.94	0.51
36:DA:2715:C:O2'	36:DA:2716:U:H5'	2.10	0.51
39:DD:244:ARG:HG2	39:DD:245:PRO:HB3	1.93	0.51
40:DE:61:ARG:HG2	40:DE:62:PRO:HD3	1.93	0.51
41:DF:122:LYS:CG	41:DF:191:ARG:HG3	2.41	0.51
43:DH:135:GLY:HA3	43:DH:141:VAL:CG2	2.41	0.51
46:DN:2:LYS:HZ1	54:DV:12:TYR:CA	2.24	0.51
46:DN:40:PRO:HD3	53:DU:68:ALA:HA	1.93	0.51
49:DQ:55:VAL:HG23	58:DZ:178:GLU:HG3	1.93	0.51
51:DS:34:HIS:NE2	51:DS:54:LEU:HB3	2.25	0.51
52:DT:119:LYS:O	52:DT:123:GLN:HG2	2.11	0.51
1:AA:110:C:O2'	1:AA:111:G:H5'	2.11	0.51
1:AA:135:C:H2'	1:AA:136:C:H5'	1.93	0.51
1:AA:825:G:O2'	1:AA:826:C:H5'	2.11	0.51
1:AA:927:G:H5'	1:AA:927:G:C8	2.44	0.51
1:AA:1316:G:H4'	14:AN:18:VAL:CG1	2.41	0.51
2:AB:184:VAL:O	2:AB:198:ASP:N	2.43	0.51
2:AB:235:SER:O	2:AB:237:ALA:N	2.44	0.51
5:AE:6:PHE:HB2	5:AE:34:VAL:CG2	2.40	0.51
7:AG:104:LEU:O	7:AG:107:ALA:HB3	2.11	0.51
10:AJ:6:ILE:HG22	10:AJ:97:GLU:O	2.11	0.51
12:AL:32:PHE:HB3	12:AL:84:LEU:HD21	1.91	0.51
12:AL:53:ARG:HD2	12:AL:53:ARG:H	1.76	0.51
12:AL:126:LYS:HG3	12:AL:128:ALA:H	1.76	0.51
13:AM:19:LEU:HD12	13:AM:25:ILE:HD13	1.93	0.51
14:AN:27:CYS:SG	14:AN:29:ARG:HB2	2.50	0.51
20:AT:37:SER:O	20:AT:40:ALA:HB3	2.11	0.51
20:AT:48:LYS:O	20:AT:49:ALA:C	2.49	0.51
24:AY:20:H2U:O4'	24:AY:20:H2U:OP2	2.29	0.51
25:AZ:99:MET:N	25:AZ:241:ARG:HH21	2.09	0.51
26:B0:69:PHE:CE2	26:B0:79:VAL:HG22	2.45	0.51
36:BA:84:A:C5'	57:BY:9:LYS:HD2	2.35	0.51
36:BA:177:G:H3'	36:BA:178:G:C8	2.46	0.51
36:BA:576:U:OP1	36:BA:2503:A:OP1	2.29	0.51
36:BA:654(T):C:O2'	36:BA:654(U):A:H5'	2.11	0.51
36:BA:973:A:H5'	36:BA:1188:U:C1'	2.41	0.51
36:BA:1022:G:N7	46:BN:66:LYS:HE3	2.25	0.51
36:BA:1069:A:H1'	36:BA:1070:A:OP2	2.11	0.51
36:BA:1344:G:H4'	36:BA:1384:A:N7	2.26	0.51
36:BA:1429:G:H2'	36:BA:1430:C:C6	2.46	0.51
36:BA:1476:C:H2'	36:BA:1477:A:H8	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1779:U:O2	36:BA:1783:A:N6	2.44	0.51
36:BA:2206:G:H21	36:BA:2207:G:H4'	1.75	0.51
36:BA:2450:A:O2'	36:BA:2451:A:H5'	2.10	0.51
36:BA:2689:U:H4'	36:BA:2690:C:OP2	2.11	0.51
38:BC:132:GLY:HA2	38:BC:137:LEU:HB2	1.93	0.51
40:BE:132:HIS:HD2	40:BE:135:HIS:CE1	2.29	0.51
42:BG:95:ARG:O	42:BG:96:ARG:O	2.29	0.51
47:BO:78:ARG:O	52:BT:73:GLU:N	2.44	0.51
50:BR:28:LEU:CA	50:BR:34:ILE:HG13	2.40	0.51
51:BS:54:LEU:C	51:BS:56:LEU:H	2.14	0.51
52:BT:107:ASP:OD2	52:BT:108:ARG:HG2	2.11	0.51
53:BU:14:HIS:C	53:BU:16:LYS:N	2.61	0.51
53:BU:42:ALA:O	53:BU:43:GLY:C	2.49	0.51
56:BX:3:THR:N	56:BX:6:ASP:OD2	2.44	0.51
56:BX:22:ALA:HB1	56:BX:23:GLU:OE2	2.11	0.51
56:BX:43:VAL:O	56:BX:47:PHE:HB2	2.11	0.51
58:BZ:76:LEU:HD21	58:BZ:82:ARG:N	2.25	0.51
1:CA:59:A:N1	1:CA:331:G:H1'	2.26	0.51
1:CA:357:G:O2'	1:CA:358:U:H5'	2.10	0.51
1:CA:614:A:C2	1:CA:627:G:C2	2.99	0.51
1:CA:651:C:H2'	1:CA:652:U:O4'	2.10	0.51
1:CA:746:A:O2'	1:CA:747:C:H5'	2.11	0.51
1:CA:881:G:P	12:CL:12:ARG:NH2	2.76	0.51
3:CC:26:LYS:HG3	3:CC:27:LYS:CG	2.29	0.51
4:CD:76:ARG:O	4:CD:80:GLU:HG2	2.10	0.51
5:CE:33:VAL:HG23	5:CE:43:LEU:HD13	1.93	0.51
5:CE:48:ALA:C	5:CE:50:GLU:H	2.12	0.51
6:CF:43:LEU:H	6:CF:43:LEU:CD2	2.18	0.51
8:CH:112:LEU:HA	8:CH:134:ILE:HG12	1.91	0.51
14:CN:4:LYS:O	14:CN:7:ILE:N	2.42	0.51
19:CS:44:MET:CA	19:CS:47:HIS:HD2	2.12	0.51
20:CT:45:GLN:HB2	20:CT:91:LEU:HD22	1.92	0.51
22:CV:41:C:H2'	22:CV:42:C:H5'	1.92	0.51
24:CY:56:C:O4'	36:DA:1067:A:H1'	2.11	0.51
25:CZ:146:LEU:O	25:CZ:150:VAL:N	2.39	0.51
25:CZ:162:GLU:OE1	63:CZ:502:KIR:H161	2.11	0.51
25:CZ:314:THR:O	25:CZ:373:GLU:HA	2.11	0.51
27:D1:44:PRO:HA	36:DA:396:G:O3'	2.11	0.51
28:D2:3:LEU:CD2	28:D2:3:LEU:C	2.79	0.51
28:D2:31:GLU:HA	28:D2:34:GLU:CB	2.41	0.51
29:D3:35:ARG:HB2	29:D3:35:ARG:NH1	2.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:7:PRO:HA	36:DA:2615:U:N3	2.25	0.51
32:D6:15:GLU:OE2	32:D6:41:PRO:HB3	2.11	0.51
32:D6:32:ASN:O	32:D6:33:LYS:CB	2.59	0.51
34:D8:13:ARG:HA	48:DP:63:PRO:HA	1.91	0.51
36:DA:336:C:H4'	57:DY:7:VAL:HG22	1.92	0.51
36:DA:410:G:N2	36:DA:2407:G:C6	2.79	0.51
36:DA:632:A:O2'	36:DA:633:A:H5'	2.11	0.51
36:DA:877:U:O2'	36:DA:878:A:H5''	2.11	0.51
36:DA:1744:C:C2'	36:DA:1745:C:H5'	2.41	0.51
36:DA:2073:C:H2'	36:DA:2074:U:C6	2.45	0.51
37:DB:105:A:H3'	37:DB:106:G:H8	1.75	0.51
38:DC:70:LYS:HD2	38:DC:177:LYS:HZ3	1.75	0.51
39:DD:196:VAL:O	39:DD:196:VAL:CG1	2.59	0.51
39:DD:248:SER:CB	39:DD:249:PRO:HD2	2.40	0.51
40:DE:1:MET:N	40:DE:83:ASP:O	2.38	0.51
40:DE:24:THR:HG21	40:DE:188:VAL:CG1	2.33	0.51
40:DE:179:GLU:O	40:DE:179:GLU:HG3	2.11	0.51
40:DE:192:ASN:HD22	40:DE:193:GLY:N	2.09	0.51
41:DF:28:ILE:H	41:DF:28:ILE:CD1	2.22	0.51
42:DG:161:THR:OG1	42:DG:163:ALA:HB2	2.10	0.51
43:DH:68:THR:HA	43:DH:71:LEU:CG	2.41	0.51
46:DN:34:LEU:CD2	46:DN:120:LEU:HD23	2.41	0.51
46:DN:44:PRO:HG3	53:DU:60:LEU:HD21	1.93	0.51
46:DN:55:VAL:CG2	46:DN:126:PRO:HA	2.29	0.51
48:DP:56:SER:O	48:DP:57:THR:O	2.29	0.51
49:DQ:21:THR:HG23	49:DQ:101:ARG:HB2	1.92	0.51
49:DQ:26:TYR:HA	49:DQ:137:TYR:CD1	2.46	0.51
50:DR:3:HIS:O	50:DR:5:LYS:HD3	2.11	0.51
51:DS:56:LEU:HD22	51:DS:58:LEU:HB2	1.92	0.51
51:DS:61:ASN:O	51:DS:65:VAL:HG21	2.11	0.51
51:DS:98:VAL:HG12	51:DS:100:ALA:N	2.25	0.51
51:DS:106:ARG:NH2	51:DS:109:GLY:N	2.58	0.51
55:DW:71:VAL:C	55:DW:73:ALA:H	2.13	0.51
56:DX:12:VAL:CG1	56:DX:27:THR:H	2.24	0.51
58:DZ:102:LEU:HD21	58:DZ:124:ILE:HD13	1.90	0.51
1:AA:516:U:C4	1:AA:517:G:N1	2.79	0.51
1:AA:748:C:O2'	1:AA:749:C:O5'	2.29	0.51
1:AA:880:C:O5'	12:AL:12:ARG:NH1	2.44	0.51
1:AA:885:G:O2'	1:AA:886:G:H5'	2.11	0.51
1:AA:1217:C:H2'	1:AA:1218:C:H6	1.74	0.51
1:AA:1260:C:C6	1:AA:1260:C:C3'	2.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1327:C:OP1	21:AU:20:LYS:HB3	2.10	0.51
1:AA:1478:C:H2'	1:AA:1479:C:H6	1.74	0.51
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.11	0.51
5:AE:50:GLU:HB3	5:AE:53:LEU:HB2	1.92	0.51
5:AE:82:VAL:O	5:AE:82:VAL:HG12	2.10	0.51
5:AE:143:ARG:HG3	5:AE:143:ARG:HH11	1.76	0.51
7:AG:71:PRO:HA	7:AG:142:GLU:OE1	2.11	0.51
8:AH:33:GLU:O	8:AH:34:GLU:C	2.50	0.51
15:AO:35:ARG:O	15:AO:38:ARG:HB2	2.10	0.51
16:AP:21:VAL:HG13	16:AP:34:GLU:H	1.77	0.51
16:AP:71:ARG:O	16:AP:74:LEU:HB2	2.11	0.51
22:AV:65:G:O2'	22:AV:66:U:H5'	2.11	0.51
24:AY:16:H2U:H52	24:AY:17:H2U:H52	1.92	0.51
25:AZ:322:VAL:HG11	25:AZ:364:PRO:HA	1.90	0.51
28:B2:24:LEU:HD23	28:B2:24:LEU:C	2.32	0.51
33:B7:19:ARG:NH2	36:BA:124:G:C8	2.79	0.51
35:B9:7:VAL:HG12	35:B9:25:VAL:HG21	1.93	0.51
35:B9:10:ILE:HD12	35:B9:10:ILE:N	2.05	0.51
36:BA:393:C:H2'	36:BA:394:A:C8	2.46	0.51
36:BA:519:U:H2'	36:BA:520:G:H8	1.76	0.51
36:BA:1458:C:H4'	36:BA:1459:G:O5'	2.11	0.51
36:BA:2117:A:H61	36:BA:2171:A:H61	1.57	0.51
36:BA:2192:G:H2'	36:BA:2193:G:H5'	1.92	0.51
36:BA:2224:G:H4'	36:BA:2226:C:C2	2.46	0.51
36:BA:2283:C:O2'	36:BA:2284:C:H5'	2.10	0.51
36:BA:2649:U:O2'	36:BA:2650:U:H5'	2.10	0.51
42:BG:16:ARG:C	42:BG:18:GLU:H	2.13	0.51
42:BG:34:LEU:HD11	42:BG:100:TRP:CH2	2.44	0.51
43:BH:85:LYS:HG3	43:BH:141:VAL:HG12	1.93	0.51
47:BO:77:ILE:HD13	52:BT:74:ARG:HG2	1.93	0.51
49:BQ:54:MET:HG2	49:BQ:64:ILE:HD13	1.92	0.51
49:BQ:55:VAL:HG23	58:BZ:178:GLU:CB	2.41	0.51
49:BQ:55:VAL:CG2	58:BZ:178:GLU:HB2	2.41	0.51
50:BR:75:LEU:HD13	50:BR:75:LEU:O	2.10	0.51
55:BW:37:ARG:HH11	55:BW:37:ARG:CG	2.24	0.51
55:BW:50:VAL:HG22	55:BW:105:VAL:CG2	2.40	0.51
55:BW:82:LEU:HB3	55:BW:84:ARG:HH12	1.76	0.51
57:BY:77:PRO:O	57:BY:78:ALA:HB2	2.11	0.51
1:CA:56:U:H2'	1:CA:57:G:H8	1.73	0.51
1:CA:376:G:O3'	16:CP:5:ARG:HD3	2.10	0.51
1:CA:433:C:O2'	1:CA:434:U:H5'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:666:G:H5'	1:CA:726:C:H1'	1.93	0.51
1:CA:825:G:O2'	1:CA:826:C:H5'	2.10	0.51
1:CA:881:G:H2'	1:CA:882:C:H6	1.76	0.51
1:CA:963:G:N2	10:CJ:55:LYS:HD3	2.25	0.51
1:CA:1208:C:N3	1:CA:1209:C:C4	2.79	0.51
1:CA:1260:C:C6	1:CA:1260:C:C3'	2.94	0.51
1:CA:1460:A:H2'	1:CA:1461:G:O4'	2.11	0.51
1:CA:1514:C:O2'	1:CA:1515:C:H5'	2.10	0.51
2:CB:7:VAL:HG12	2:CB:7:VAL:O	2.10	0.51
3:CC:70:VAL:CG1	3:CC:71:ALA:N	2.70	0.51
4:CD:65:ARG:HD2	4:CD:72:GLU:N	2.26	0.51
4:CD:194:LEU:HB3	4:CD:196:LEU:CD1	2.36	0.51
5:CE:69:VAL:O	5:CE:71:LEU:HG	2.10	0.51
7:CG:24:THR:HG22	7:CG:27:ILE:HD12	1.93	0.51
8:CH:40:ALA:CA	8:CH:45:ILE:HG13	2.40	0.51
10:CJ:17:ASP:CB	10:CJ:70:ARG:HH21	2.24	0.51
18:CR:53:ARG:CZ	18:CR:59:SER:HA	2.41	0.51
22:CW:66:U:H2'	22:CW:67:C:C6	2.46	0.51
25:CZ:389:ARG:O	25:CZ:390:GLU:HB2	2.11	0.51
26:D0:23:VAL:HA	26:D0:38:VAL:HG13	1.92	0.51
28:D2:44:LEU:O	28:D2:44:LEU:HD23	2.11	0.51
29:D3:7:LYS:HG3	29:D3:34:GLU:HB3	1.91	0.51
36:DA:49:A:N3	36:DA:49:A:H5'	2.26	0.51
36:DA:108:U:H2'	36:DA:109:G:C8	2.46	0.51
36:DA:664:C:H1'	36:DA:940:G:OP1	2.11	0.51
36:DA:874:G:O2'	36:DA:875:G:H5'	2.11	0.51
36:DA:1022:G:N7	46:DN:66:LYS:HE3	2.25	0.51
36:DA:1040:C:C4	36:DA:1041:C:C5	2.98	0.51
36:DA:1150:C:O2'	36:DA:1151:G:H5'	2.11	0.51
36:DA:1601:G:C2'	36:DA:1602:U:H5'	2.41	0.51
36:DA:2059:A:OP1	41:DF:71:GLY:HA3	2.11	0.51
36:DA:2456:C:H2'	36:DA:2457:U:O4'	2.11	0.51
36:DA:2674:G:H2'	36:DA:2675:A:O4'	2.11	0.51
36:DA:2729:G:H21	40:DE:167:VAL:HG23	1.76	0.51
36:DA:2839:G:H5'	50:DR:46:GLY:HA2	1.91	0.51
36:DA:2880:C:C6	36:DA:2880:C:C3'	2.94	0.51
38:DC:83:ILE:HG12	38:DC:95:GLY:HA3	1.93	0.51
40:DE:36:ARG:O	40:DE:37:ARG:HG2	2.10	0.51
42:DG:104:GLU:C	42:DG:106:LEU:H	2.12	0.51
42:DG:114:ILE:HD11	42:DG:135:LEU:HD21	1.93	0.51
43:DH:44:VAL:CG1	43:DH:45:VAL:N	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:125:UNK:O	45:DK:129:UNK:CB	2.59	0.51
49:DQ:21:THR:HG22	49:DQ:23:GLY:O	2.12	0.51
50:DR:24:GLN:C	50:DR:26:LYS:N	2.62	0.51
51:DS:15:ARG:O	51:DS:18:ILE:HG13	2.11	0.51
51:DS:52:SER:O	51:DS:69:VAL:HG21	2.10	0.51
53:DU:18:LEU:HD11	53:DU:30:LYS:O	2.11	0.51
54:DV:47:VAL:HG23	54:DV:47:VAL:O	2.11	0.51
55:DW:14:PRO:O	55:DW:17:VAL:N	2.44	0.51
57:DY:13:VAL:HG22	57:DY:73:ARG:O	2.10	0.51
58:DZ:61:LEU:HG	58:DZ:65:GLN:O	2.11	0.51
58:DZ:100:VAL:CG1	58:DZ:101:PRO:HD2	2.41	0.51
1:AA:390:C:H2'	1:AA:391:G:C8	2.46	0.50
1:AA:458:C:H2'	1:AA:460:G:C8	2.46	0.50
1:AA:570:G:C6	1:AA:873:A:C2	2.99	0.50
1:AA:620:C:H2'	1:AA:621:A:O4'	2.10	0.50
1:AA:709:G:H2'	1:AA:710:G:C8	2.46	0.50
1:AA:923:A:C5'	5:AE:21:ALA:HB2	2.40	0.50
1:AA:1031:G:H2'	1:AA:1032:G:C8	2.45	0.50
2:AB:106:LYS:CG	2:AB:107:THR:N	2.75	0.50
2:AB:130:ARG:HH21	2:AB:131:PRO:HD2	1.75	0.50
4:AD:9:CYS:SG	4:AD:32:ALA:HB3	2.51	0.50
8:AH:36:LEU:C	8:AH:38:ILE:H	2.14	0.50
12:AL:79:GLU:O	12:AL:79:GLU:HG2	2.12	0.50
13:AM:9:ILE:HD12	13:AM:9:ILE:N	2.26	0.50
13:AM:55:ARG:O	13:AM:58:GLU:HB2	2.11	0.50
13:AM:66:LEU:HD12	13:AM:66:LEU:N	2.25	0.50
20:AT:23:ARG:HD3	20:AT:23:ARG:C	2.31	0.50
22:AV:28:G:O2'	22:AV:29:G:H5'	2.11	0.50
25:AZ:316:PHE:C	25:AZ:371:THR:HG23	2.31	0.50
30:B4:6:HIS:CB	42:BG:67:LYS:CE	2.88	0.50
31:B5:4:HIS:CB	31:B5:5:PRO:CD	2.81	0.50
34:B8:13:ARG:HA	48:BP:63:PRO:HA	1.92	0.50
36:BA:197:A:C8	36:BA:2430:A:C2	2.99	0.50
36:BA:261:G:O4'	36:BA:609:A:H2	1.94	0.50
36:BA:493:G:O2'	55:BW:7:ALA:HA	2.11	0.50
36:BA:603:A:H1'	36:BA:604:G:OP2	2.11	0.50
36:BA:654(B):C:H2'	36:BA:654(C):G:H8	1.75	0.50
36:BA:1432:C:H2'	36:BA:1433:U:C6	2.46	0.50
36:BA:1605:C:N4	36:BA:1606:G:C2	2.80	0.50
36:BA:1966:A:H2	36:BA:2592:G:N3	2.09	0.50
36:BA:2282:G:N2	36:BA:2390:U:H3	2.07	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2456:C:H2'	36:BA:2457:U:O4'	2.11	0.50
36:BA:2535:G:C2	36:BA:2536:G:C8	2.99	0.50
37:BB:78:A:C6	37:BB:100:A:C8	2.99	0.50
37:BB:105:A:H4'	58:BZ:89:PHE:CE2	2.46	0.50
38:BC:6:ARG:HG2	38:BC:6:ARG:NH1	2.23	0.50
38:BC:19:VAL:HA	38:BC:223:ARG:O	2.12	0.50
38:BC:153:ILE:O	38:BC:157:LYS:HB2	2.11	0.50
40:BE:3:GLY:HA3	40:BE:81:ILE:HD12	1.92	0.50
43:BH:42:ARG:HB2	43:BH:42:ARG:CZ	2.41	0.50
43:BH:86:GLU:HA	43:BH:132:ARG:CB	2.40	0.50
43:BH:97:ARG:HE	43:BH:99:VAL:HG23	1.76	0.50
46:BN:24:GLY:O	46:BN:28:THR:HG22	2.11	0.50
46:BN:55:VAL:HG22	46:BN:56:ASN:N	2.25	0.50
48:BP:114:ILE:HG23	48:BP:130:PHE:HA	1.92	0.50
51:BS:52:SER:HB3	51:BS:55:ALA:HB3	1.92	0.50
51:BS:52:SER:O	51:BS:69:VAL:HG21	2.11	0.50
52:BT:106:SER:C	52:BT:107:ASP:OD1	2.49	0.50
57:BY:13:VAL:HG23	57:BY:74:PRO:HA	1.92	0.50
1:CA:358:U:H2'	1:CA:359:U:O4'	2.11	0.50
1:CA:407:G:H2'	1:CA:408:A:H8	1.74	0.50
1:CA:500:G:O2'	1:CA:548:G:N2	2.44	0.50
1:CA:665:A:C8	1:CA:725:G:C2	2.99	0.50
1:CA:677:U:H2'	1:CA:678:U:C6	2.46	0.50
1:CA:731:G:O2'	1:CA:732:C:H5'	2.11	0.50
1:CA:864:A:H3'	1:CA:865:A:C8	2.45	0.50
1:CA:1245:A:H61	1:CA:1292:U:H3	1.59	0.50
1:CA:1502:A:H2	1:CA:1505:G:H1	1.59	0.50
2:CB:17:PHE:O	2:CB:17:PHE:CD2	2.59	0.50
2:CB:165:VAL:O	2:CB:167:PRO:HD3	2.11	0.50
2:CB:193:ASP:OD2	2:CB:193:ASP:O	2.29	0.50
4:CD:34:GLU:O	4:CD:35:ARG:HB2	2.10	0.50
8:CH:38:ILE:HA	8:CH:41:ARG:HB3	1.93	0.50
11:CK:22:HIS:HB3	11:CK:29:ILE:CG2	2.30	0.50
13:CM:10:PRO:CG	13:CM:18:ALA:HB1	2.41	0.50
13:CM:53:VAL:O	13:CM:56:LEU:HB3	2.11	0.50
13:CM:79:LYS:HA	13:CM:82:MET:HB3	1.93	0.50
15:CO:10:LYS:HA	15:CO:13:GLN:OE1	2.09	0.50
22:CV:7:A:N1	22:CV:67:C:N3	2.59	0.50
25:CZ:9:LYS:HB3	25:CZ:75:ARG:HA	1.93	0.50
27:D1:83:GLU:OE1	27:D1:84:GLY:N	2.42	0.50
28:D2:69:ARG:NH2	36:DA:111:A:C4'	2.66	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:D6:7:ILE:O	32:D6:7:ILE:CG2	2.59	0.50
32:D6:26:ASN:O	32:D6:27:LYS:CB	2.58	0.50
35:D9:2:LYS:HG3	36:DA:2526:G:H21	1.75	0.50
36:DA:444:C:C2'	36:DA:445:C:O5'	2.59	0.50
36:DA:669:G:N3	36:DA:669:G:C2'	2.73	0.50
36:DA:811:U:O2'	36:DA:812:C:H5''	2.10	0.50
36:DA:1119:C:H2'	36:DA:1120:G:H8	1.76	0.50
36:DA:1451:C:H4'	36:DA:1452:A:C8	2.46	0.50
36:DA:1568:G:H4'	39:DD:59:LYS:CG	2.41	0.50
36:DA:1578:U:H2'	36:DA:1578:U:O2	2.10	0.50
36:DA:2121:G:H2'	36:DA:2122:U:H6	1.73	0.50
36:DA:2312:U:O2'	42:DG:40:ASN:ND2	2.44	0.50
40:DE:132:HIS:HD2	40:DE:135:HIS:NE2	2.09	0.50
41:DF:168:ARG:CG	41:DF:169:ASN:H	2.23	0.50
43:DH:65:HIS:HE1	43:DH:69:ARG:CZ	2.24	0.50
47:DO:104:ARG:CB	47:DO:104:ARG:CZ	2.89	0.50
48:DP:144:GLU:N	48:DP:145:PRO:HD3	2.26	0.50
49:DQ:52:VAL:O	49:DQ:53:ALA:C	2.48	0.50
51:DS:37:ALA:HB2	51:DS:99:LYS:HZ3	1.75	0.50
51:DS:85:VAL:HG23	51:DS:86:ALA:N	2.26	0.50
52:DT:96:ARG:HB2	52:DT:96:ARG:NH1	2.26	0.50
55:DW:65:LEU:HD23	55:DW:68:ARG:CD	2.41	0.50
58:DZ:19:ARG:HH12	58:DZ:85:HIS:HB2	1.75	0.50
1:AA:223:U:O2'	1:AA:224:C:H5'	2.11	0.50
1:AA:358:U:H2'	1:AA:359:U:O4'	2.11	0.50
1:AA:424:G:C2	1:AA:425:G:N7	2.79	0.50
1:AA:433:C:O2'	1:AA:434:U:H5'	2.11	0.50
1:AA:577:G:H1'	1:AA:816:A:N3	2.26	0.50
1:AA:712:A:C2	1:AA:713:G:C4	2.99	0.50
1:AA:858:G:C8	1:AA:858:G:OP2	2.64	0.50
1:AA:881:G:P	12:AL:12:ARG:NH2	2.78	0.50
1:AA:946:A:C2	1:AA:1236:A:C2	2.99	0.50
1:AA:1190:G:P	3:AC:5:ILE:HD12	2.52	0.50
1:AA:1344:C:H1'	1:AA:1349:A:H4'	1.94	0.50
2:AB:164:VAL:HG12	2:AB:165:VAL:H	1.74	0.50
3:AC:141:VAL:HG11	3:AC:202:ILE:HG23	1.92	0.50
4:AD:71:SER:O	4:AD:72:GLU:C	2.50	0.50
5:AE:42:GLY:CA	5:AE:66:MET:HG2	2.41	0.50
8:AH:20:TYR:HA	8:AH:65:TYR:HE2	1.74	0.50
9:AI:93:ARG:HA	9:AI:96:LEU:HB3	1.94	0.50
10:AJ:63:PHE:HA	14:AN:59:ALA:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:41:ARG:NH1	12:AL:57:LYS:NZ	2.59	0.50
16:AP:48:TRP:N	16:AP:48:TRP:CD1	2.79	0.50
24:AY:48:C:C2'	24:AY:59:A:H1'	2.33	0.50
25:AZ:8:THR:OG1	25:AZ:9:LYS:N	2.42	0.50
25:AZ:107:SER:HB3	25:AZ:110:ASP:HB2	1.93	0.50
27:B1:45:ASN:O	27:B1:64:ALA:HB2	2.10	0.50
30:B4:18:CYS:SG	30:B4:19:GLY:N	2.84	0.50
32:B6:51:GLU:O	32:B6:52:VAL:HG23	2.12	0.50
36:BA:145:G:H2'	36:BA:146:G:C5'	2.39	0.50
36:BA:271(J):C:C3'	36:BA:271(K):U:H5''	2.41	0.50
36:BA:280:C:N4	36:BA:360:G:H1	2.09	0.50
36:BA:1217:C:H2'	36:BA:1218:C:C6	2.46	0.50
36:BA:1221:C:H2'	36:BA:1221(A):C:C6	2.47	0.50
36:BA:1485:G:H1'	36:BA:1505:C:N4	2.26	0.50
36:BA:1485:G:H2'	36:BA:1486:A:O4'	2.11	0.50
36:BA:2010:G:C5	36:BA:2011:U:C5	3.00	0.50
36:BA:2020:A:O2'	36:BA:2021:C:C5'	2.57	0.50
36:BA:2107:C:H2'	36:BA:2108:C:H6	1.75	0.50
36:BA:2111:C:H42	36:BA:2147:G:H1	1.58	0.50
36:BA:2462:U:H2'	36:BA:2463:C:C6	2.46	0.50
36:BA:2821:A:H2'	36:BA:2822:G:C8	2.46	0.50
38:BC:74:VAL:HA	38:BC:112:ALA:CB	2.31	0.50
39:BD:27:THR:HG21	39:BD:82:ILE:O	2.11	0.50
39:BD:117:VAL:CG2	39:BD:118:VAL:N	2.73	0.50
39:BD:270:ILE:HD12	39:BD:270:ILE:C	2.30	0.50
39:BD:273:ARG:C	39:BD:274:ARG:HG3	2.31	0.50
41:BF:130:ALA:HB3	41:BF:142:TRP:HD1	1.75	0.50
42:BG:18:GLU:O	42:BG:20:ILE:N	2.42	0.50
43:BH:67:LEU:CG	43:BH:71:LEU:HD11	2.36	0.50
43:BH:68:THR:HA	43:BH:71:LEU:CG	2.41	0.50
45:BK:17:UNK:O	45:BK:18:UNK:CB	2.59	0.50
49:BQ:45:GLN:HG2	49:BQ:46:GLN:H	1.76	0.50
49:BQ:141:GLN:CD	58:BZ:72:ARG:HD3	2.31	0.50
55:BW:11:ARG:HH21	55:BW:12:ILE:HA	1.75	0.50
57:BY:17:SER:CB	57:BY:71:LYS:HD2	2.41	0.50
1:CA:619:U:C2	4:CD:135:LEU:CD2	2.94	0.50
1:CA:620:C:H2'	1:CA:621:A:O4'	2.11	0.50
1:CA:811:C:H4'	1:CA:900:A:H61	1.72	0.50
1:CA:858:G:N1	1:CA:869:G:C8	2.79	0.50
1:CA:885:G:C6	1:CA:913:A:N6	2.79	0.50
1:CA:987:G:H2'	1:CA:988:G:C8	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1345:U:C6	1:CA:1377:A:C2	2.99	0.50
1:CA:1395:C:O5'	1:CA:1395:C:H6	1.94	0.50
2:CB:162:ILE:CG2	2:CB:184:VAL:HG22	2.41	0.50
5:CE:11:ILE:CG2	5:CE:105:VAL:HG22	2.41	0.50
5:CE:90:VAL:O	5:CE:120:THR:HA	2.11	0.50
6:CF:89:MET:SD	18:CR:76:LEU:HD21	2.51	0.50
7:CG:17:VAL:HG12	7:CG:18:TYR:N	2.26	0.50
11:CK:63:LEU:O	11:CK:66:LEU:HB2	2.11	0.50
13:CM:79:LYS:O	13:CM:82:MET:HG2	2.11	0.50
14:CN:19:ARG:O	14:CN:20:ALA:O	2.28	0.50
20:CT:18:GLN:O	20:CT:22:ARG:HD2	2.12	0.50
20:CT:53:LEU:O	20:CT:54:LYS:C	2.50	0.50
22:CW:35:A:N1	23:CX:17:U:O4	2.44	0.50
24:CY:65:C:H2'	24:CY:66:U:C6	2.46	0.50
25:CZ:86:ALA:O	25:CZ:87:ASP:CB	2.59	0.50
29:D3:15:TYR:HB3	29:D3:16:PRO:HD2	1.93	0.50
31:D5:12:SER:HB3	36:DA:2020:A:H5'	1.93	0.50
34:D8:28:GLY:C	34:D8:30:ARG:H	2.14	0.50
34:D8:62:LEU:HD13	36:DA:242:G:C5'	2.41	0.50
36:DA:18:C:H2'	36:DA:19:C:H6	1.75	0.50
36:DA:371:A:N1	36:DA:401:A:H5''	2.26	0.50
36:DA:1188:U:H5''	54:DV:79:VAL:HG11	1.93	0.50
36:DA:1279:G:H1	36:DA:1291:C:N4	2.09	0.50
36:DA:1484:G:H3'	36:DA:1485:G:H5''	1.90	0.50
36:DA:1812:A:O2'	36:DA:1813:G:H5'	2.11	0.50
36:DA:2100:G:H5'	36:DA:2101:G:OP2	2.11	0.50
36:DA:2123:G:O2'	36:DA:2124:G:H5'	2.12	0.50
36:DA:2328:A:H2'	36:DA:2329:G:H8	1.75	0.50
36:DA:2410:G:H2'	36:DA:2411:A:C8	2.44	0.50
36:DA:2475:C:H5'	36:DA:2476:A:OP2	2.11	0.50
38:DC:196:LEU:O	38:DC:198:ALA:N	2.45	0.50
39:DD:37:LEU:O	39:DD:62:TYR:HB3	2.10	0.50
39:DD:273:ARG:C	39:DD:274:ARG:HG3	2.32	0.50
41:DF:11:VAL:C	41:DF:13:SER:H	2.15	0.50
42:DG:111:LEU:O	42:DG:114:ILE:CG2	2.59	0.50
43:DH:42:ARG:HB2	43:DH:42:ARG:CZ	2.41	0.50
43:DH:89:ILE:HG22	43:DH:162:ILE:HG13	1.92	0.50
51:DS:24:LEU:CD1	51:DS:41:ASP:HB2	2.41	0.50
51:DS:106:ARG:NH1	51:DS:107:GLU:N	2.41	0.50
52:DT:78:LEU:C	52:DT:79:HIS:CD2	2.85	0.50
53:DU:113:ALA:C	53:DU:115:ALA:H	2.13	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:229:U:O2'	16:AP:23:ASP:HB2	2.11	0.50
1:AA:246:A:C2	1:AA:282:A:C5	2.99	0.50
1:AA:334:C:O2'	1:AA:335:C:H5'	2.11	0.50
1:AA:424:G:H2'	1:AA:425:G:H8	1.76	0.50
1:AA:864:A:H3'	1:AA:865:A:C8	2.47	0.50
1:AA:950:U:H2'	1:AA:951:G:H8	1.76	0.50
1:AA:951:G:C2	1:AA:952:U:C2	2.99	0.50
1:AA:960:U:O2'	1:AA:1223:C:H5'	2.12	0.50
1:AA:1003:G:N2	1:AA:1038:C:C2	2.79	0.50
1:AA:1077:G:N2	1:AA:1079:G:H3'	2.26	0.50
1:AA:1275:A:O2'	1:AA:1276:G:H5'	2.11	0.50
4:AD:200:GLU:HG2	4:AD:201:GLN:N	2.26	0.50
5:AE:12:LEU:C	5:AE:13:ILE:HG13	2.31	0.50
5:AE:107:ARG:O	5:AE:111:GLU:HG3	2.11	0.50
7:AG:50:ILE:O	7:AG:54:THR:HG23	2.11	0.50
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	2.25	0.50
8:AH:109:ILE:HG23	8:AH:137:VAL:HB	1.92	0.50
20:AT:12:ALA:O	20:AT:15:ARG:HB2	2.11	0.50
25:AZ:27:LEU:HD23	25:AZ:105:VAL:HG22	1.92	0.50
25:AZ:221:PHE:CD1	25:AZ:247:VAL:HG13	2.46	0.50
25:AZ:257:GLY:HA3	25:AZ:302:GLN:HG2	1.93	0.50
33:B7:37:LYS:HD2	36:BA:458:G:C8	2.46	0.50
34:B8:5:LYS:HG2	36:BA:242:G:C8	2.46	0.50
35:B9:36:GLN:NE2	36:BA:1031:G:N2	2.48	0.50
36:BA:25:U:H5''	55:BW:79:GLY:HA2	1.91	0.50
36:BA:141:A:N6	36:BA:142:A:H62	2.09	0.50
36:BA:304:G:N3	36:BA:314:A:C2	2.79	0.50
36:BA:306:U:H2'	36:BA:307:G:C8	2.46	0.50
36:BA:425:G:H2'	36:BA:426:C:C6	2.47	0.50
36:BA:654(H):G:C2'	36:BA:654(I):C:H5'	2.41	0.50
36:BA:680:G:H2'	36:BA:681:G:C8	2.45	0.50
36:BA:705:A:C2	36:BA:727:A:H1'	2.47	0.50
36:BA:907:U:H4'	49:BQ:101:ARG:NH1	2.27	0.50
36:BA:1028:A:H61	36:BA:1125:G:H2'	1.76	0.50
36:BA:1523:U:H2'	36:BA:1524:G:O4'	2.10	0.50
36:BA:1993:U:H5''	40:BE:128:SER:HB3	1.93	0.50
36:BA:2125:G:OP1	38:BC:40:THR:HG21	2.11	0.50
36:BA:2390:U:O2'	36:BA:2391:G:H5'	2.11	0.50
36:BA:2517:C:C2	36:BA:2542:A:N1	2.79	0.50
36:BA:2577:A:C5'	36:BA:2578:G:H5'	2.41	0.50
36:BA:2588:G:C6	36:BA:2607:G:C2	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2593:U:H2'	36:BA:2594:C:C6	2.46	0.50
36:BA:2770:G:H5'	36:BA:2771:C:OP2	2.11	0.50
36:BA:2811:G:H5'	40:BE:60:ASN:ND2	2.27	0.50
36:BA:2880:C:C6	36:BA:2880:C:C3'	2.95	0.50
36:BA:2880:C:H1'	50:BR:92:GLY:O	2.12	0.50
40:BE:4:ILE:HG12	40:BE:5:LEU:H	1.77	0.50
42:BG:141:PHE:HB3	42:BG:142:PRO:HD2	1.93	0.50
43:BH:163:TYR:CD1	43:BH:163:TYR:N	2.79	0.50
46:BN:2:LYS:NZ	54:BV:12:TYR:HA	2.26	0.50
46:BN:29:LYS:O	46:BN:33:LEU:HD13	2.10	0.50
46:BN:32:THR:HG22	46:BN:37:LYS:HB3	1.94	0.50
46:BN:58:ASP:O	46:BN:60:ILE:HG13	2.11	0.50
49:BQ:34:LEU:HD11	49:BQ:129:THR:CB	2.34	0.50
50:BR:38:VAL:HB	50:BR:39:PRO:CD	2.34	0.50
51:BS:56:LEU:HD22	51:BS:58:LEU:HB2	1.92	0.50
58:BZ:70:LEU:HD21	58:BZ:91:LEU:CD2	2.37	0.50
1:CA:202:U:O2'	1:CA:203:U:OP1	2.27	0.50
1:CA:356:A:H2'	1:CA:357:G:C8	2.47	0.50
1:CA:525:C:H2'	1:CA:526:C:C6	2.46	0.50
1:CA:541:G:H2'	1:CA:542:G:H8	1.77	0.50
1:CA:828:A:H2'	1:CA:829:G:O4'	2.10	0.50
1:CA:936:C:H2'	1:CA:937:A:C8	2.39	0.50
1:CA:1249:C:O4'	9:CI:70:LYS:HE2	2.11	0.50
1:CA:1250:A:H5'	9:CI:67:GLY:HA2	1.94	0.50
1:CA:1397:C:O2	23:CX:26:A:C8	2.64	0.50
1:CA:1443:G:N3	1:CA:1443:G:H2'	2.26	0.50
2:CB:170:GLU:CA	2:CB:172:ILE:HD12	2.40	0.50
4:CD:50:ARG:O	4:CD:51:PRO:C	2.49	0.50
4:CD:67:ILE:O	4:CD:67:ILE:CG2	2.60	0.50
6:CF:1:MET:N	6:CF:68:PRO:HA	2.26	0.50
7:CG:36:LYS:O	7:CG:39:ALA:HB3	2.11	0.50
8:CH:6:ILE:H	8:CH:6:ILE:CD1	2.25	0.50
8:CH:14:ARG:HG3	8:CH:83:ILE:HG21	1.92	0.50
13:CM:15:VAL:O	13:CM:19:LEU:HD23	2.11	0.50
13:CM:120:LYS:HA	13:CM:120:LYS:NZ	2.26	0.50
17:CQ:67:LYS:O	17:CQ:69:LYS:N	2.43	0.50
19:CS:52:TYR:O	19:CS:53:ASN:CB	2.58	0.50
20:CT:72:LEU:CD2	20:CT:76:ALA:HB1	2.37	0.50
24:CY:24:G:H2'	24:CY:25:C:H6	1.74	0.50
24:CY:37:YG:H31	24:CY:37:YG:C1'	2.42	0.50
32:D6:5:VAL:HG11	36:DA:2283:C:C4'	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:D9:1:MET:CE	36:DA:2477:C:H3'	2.41	0.50
36:DA:263:C:O2'	36:DA:264:C:H5'	2.11	0.50
36:DA:966:G:H1'	36:DA:2267:A:N6	2.26	0.50
36:DA:1416:G:H1'	36:DA:1417:C:C6	2.46	0.50
36:DA:1473:G:N3	36:DA:1474:C:H1'	2.25	0.50
36:DA:1764:G:H2'	36:DA:1765:C:H6	1.77	0.50
36:DA:1826:G:H8	36:DA:1826:G:O5'	1.94	0.50
36:DA:2533:A:H2'	36:DA:2534:A:O4'	2.11	0.50
36:DA:2580:U:H3'	36:DA:2581:G:N2	2.25	0.50
36:DA:2596:U:H2'	36:DA:2597:G:O4'	2.11	0.50
36:DA:2762:G:H2'	36:DA:2763:G:C5'	2.40	0.50
36:DA:2875:C:C4'	52:DT:5:ALA:HB3	2.40	0.50
46:DN:18:ALA:CB	46:DN:26:LEU:HD22	2.41	0.50
51:DS:89:ARG:HG3	51:DS:92:TYR:HB3	1.93	0.50
52:DT:23:ARG:CG	52:DT:120:ARG:NH1	2.74	0.50
54:DV:18:LEU:HD22	54:DV:96:ILE:HG12	1.92	0.50
54:DV:37:VAL:O	54:DV:37:VAL:HG23	2.12	0.50
55:DW:12:ILE:CD1	55:DW:42:ARG:HH12	2.24	0.50
55:DW:51:LEU:O	55:DW:54:ALA:HB3	2.11	0.50
58:DZ:53:ILE:CG2	58:DZ:71:VAL:HB	2.40	0.50
1:AA:92:C:H2'	1:AA:93:G:C8	2.46	0.50
1:AA:824:C:O2'	1:AA:825:G:H5'	2.12	0.50
1:AA:928:G:H2'	1:AA:929:G:H5'	1.93	0.50
2:AB:77:ALA:HA	2:AB:80:ILE:CD1	2.36	0.50
2:AB:219:VAL:HA	2:AB:222:ILE:HG12	1.93	0.50
3:AC:13:GLY:O	3:AC:14:ILE:HB	2.11	0.50
4:AD:98:GLU:CG	4:AD:189:PRO:HG3	2.37	0.50
7:AG:137:LYS:O	7:AG:138:LYS:C	2.49	0.50
10:AJ:53:PRO:C	14:AN:41:ARG:NH2	2.65	0.50
15:AO:27:VAL:O	15:AO:28:GLN:C	2.50	0.50
18:AR:59:SER:O	18:AR:60:ALA:C	2.50	0.50
25:AZ:99:MET:H	25:AZ:241:ARG:NH2	2.09	0.50
30:B4:19:GLY:O	30:B4:20:ASN:C	2.49	0.50
34:B8:26:LYS:HB2	34:B8:44:LYS:HG3	1.93	0.50
36:BA:445:C:C2'	36:BA:446:G:O4'	2.60	0.50
36:BA:471:A:C2'	36:BA:472:A:C5'	2.89	0.50
36:BA:517:C:H6	36:BA:517:C:O5'	1.95	0.50
36:BA:778:G:C6	36:BA:779:U:C4	3.00	0.50
36:BA:1173:G:H5'	36:BA:1174:A:O5'	2.11	0.50
36:BA:1503:U:N1	36:BA:1504:C:H5	2.10	0.50
36:BA:1668:A:N7	36:BA:1674:G:C6	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1856:G:H2'	36:BA:1857:G:H5'	1.93	0.50
36:BA:1982:C:H6	36:BA:1982:C:O5'	1.95	0.50
36:BA:2030:A:H5''	36:BA:2031:A:OP1	2.11	0.50
36:BA:2153:G:N2	36:BA:2154:G:H1'	2.26	0.50
36:BA:2334:G:H21	51:BS:18:ILE:CG2	2.25	0.50
36:BA:2687:U:C4	36:BA:2688:U:C5	2.99	0.50
36:BA:2762:G:H2'	36:BA:2763:G:C5'	2.39	0.50
38:BC:23:ASP:O	38:BC:24:GLU:C	2.49	0.50
38:BC:46:LYS:C	38:BC:47:LEU:HD12	2.31	0.50
40:BE:1:MET:HB3	40:BE:200:GLU:OE2	2.12	0.50
40:BE:36:ARG:C	40:BE:37:ARG:HG2	2.31	0.50
40:BE:144:ARG:C	40:BE:146:THR:H	2.14	0.50
40:BE:192:ASN:HD22	40:BE:193:GLY:N	2.09	0.50
42:BG:16:ARG:N	42:BG:17:PRO:HD2	2.26	0.50
42:BG:121:ASN:OD1	42:BG:121:ASN:C	2.48	0.50
43:BH:12:PRO:N	43:BH:48:GLY:HA2	2.26	0.50
43:BH:137:ASP:HB2	43:BH:140:LYS:HE3	1.93	0.50
48:BP:58:THR:C	48:BP:61:ARG:HE	2.14	0.50
52:BT:38:ASN:ND2	52:BT:38:ASN:O	2.44	0.50
52:BT:64:ARG:CB	52:BT:73:GLU:HG2	2.40	0.50
52:BT:77:PRO:O	52:BT:78:LEU:CB	2.58	0.50
53:BU:108:GLU:HG3	54:BV:44:LYS:HG2	1.92	0.50
56:BX:57:LEU:N	56:BX:57:LEU:CD1	2.75	0.50
57:BY:19:LYS:HB2	57:BY:20:TYR:CD1	2.46	0.50
1:CA:105:G:C6	1:CA:106:C:N4	2.80	0.50
1:CA:424:G:H2'	1:CA:425:G:H8	1.76	0.50
1:CA:779:C:O3'	11:CK:122:LYS:HA	2.10	0.50
1:CA:954:G:H4'	13:CM:120:LYS:HD3	1.92	0.50
1:CA:1381:U:H5	1:CA:1382:C:C4	2.30	0.50
1:CA:1463:C:C5'	52:DT:115:ARG:HH21	2.24	0.50
2:CB:44:LEU:HD12	2:CB:44:LEU:N	2.23	0.50
2:CB:54:THR:HG22	2:CB:58:ILE:CD1	2.38	0.50
2:CB:173:ALA:O	2:CB:174:VAL:C	2.50	0.50
2:CB:185:ILE:O	2:CB:186:ALA:HB2	2.12	0.50
2:CB:235:SER:O	2:CB:237:ALA:N	2.45	0.50
3:CC:165:THR:O	3:CC:165:THR:CG2	2.59	0.50
3:CC:180:ALA:O	3:CC:203:PHE:HE1	1.95	0.50
7:CG:50:ILE:O	7:CG:54:THR:HG23	2.11	0.50
10:CJ:63:PHE:HA	14:CN:59:ALA:HB2	1.92	0.50
11:CK:48:ILE:HG22	11:CK:49:GLY:N	2.27	0.50
16:CP:58:TYR:CD1	16:CP:58:TYR:C	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:71:ARG:O	16:CP:74:LEU:HB2	2.11	0.50
17:CQ:21:VAL:O	17:CQ:41:LYS:HA	2.11	0.50
19:CS:31:ILE:CG2	19:CS:49:ILE:HA	2.42	0.50
22:CV:28:G:O2'	22:CV:29:G:H5'	2.11	0.50
22:CW:64:A:H2'	22:CW:65:G:H8	1.77	0.50
25:CZ:112:PRO:HG3	25:CZ:153:GLU:OE1	2.11	0.50
25:CZ:221:PHE:CE1	25:CZ:247:VAL:HG22	2.47	0.50
26:D0:43:THR:HG21	36:DA:2336:A:H61	1.76	0.50
27:D1:7:ILE:CD1	27:D1:70:VAL:HG23	2.41	0.50
27:D1:29:GLY:HA3	36:DA:2396:G:O2'	2.11	0.50
28:D2:10:LEU:HD22	28:D2:14:ARG:HD2	1.94	0.50
34:D8:8:LYS:HA	34:D8:11:LYS:CD	2.41	0.50
36:DA:31:C:H5''	36:DA:1239:G:OP1	2.10	0.50
36:DA:455:C:N3	36:DA:472:A:H2'	2.27	0.50
36:DA:664:C:H4'	36:DA:941:A:OP1	2.10	0.50
36:DA:738:G:H2'	36:DA:739:G:H5'	1.93	0.50
36:DA:863:A:H2'	36:DA:864:G:H8	1.74	0.50
36:DA:1087:G:C8	36:DA:1088:A:H4'	2.47	0.50
36:DA:1299:G:H2'	36:DA:1639:U:O4	2.11	0.50
36:DA:1404:C:H2'	36:DA:1404:C:O2	2.09	0.50
36:DA:1632:A:N6	36:DA:1633:G:N1	2.60	0.50
36:DA:1720:U:H2'	36:DA:1721:G:C5'	2.40	0.50
36:DA:2007:C:H5'	36:DA:2824:C:O4'	2.11	0.50
36:DA:2137:C:H2'	36:DA:2138:C:H6	1.77	0.50
36:DA:2469:A:C5	36:DA:2470:G:H1'	2.46	0.50
36:DA:2524:G:H5'	36:DA:2524:G:C8	2.47	0.50
36:DA:2530:A:C3'	36:DA:2531:A:H5''	2.41	0.50
36:DA:2681:C:C5	36:DA:2725:A:N6	2.79	0.50
37:DB:79:C:C2'	37:DB:80:U:H5'	2.41	0.50
38:DC:22:ILE:HD12	38:DC:228:SER:C	2.32	0.50
38:DC:151:GLU:HA	38:DC:154:ARG:CD	2.41	0.50
41:DF:70:THR:CG2	41:DF:72:ARG:HG2	2.42	0.50
41:DF:118:ALA:HB1	41:DF:123:LEU:HD22	1.92	0.50
42:DG:174:GLU:HA	42:DG:180:PHE:HE1	1.75	0.50
43:DH:31:GLY:O	43:DH:79:VAL:HG12	2.12	0.50
43:DH:130:ARG:HB3	43:DH:130:ARG:CZ	2.40	0.50
45:DK:17:UNK:O	45:DK:18:UNK:CB	2.59	0.50
45:DK:99:UNK:N	45:DK:135:UNK:CB	2.75	0.50
46:DN:134:ARG:H	46:DN:135:PRO:HD3	1.76	0.50
48:DP:23:PRO:HB2	48:DP:33:ARG:HD2	1.92	0.50
50:DR:97:VAL:HA	50:DR:113:LEU:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:89:ARG:CG	51:DS:92:TYR:HA	2.41	0.50
53:DU:94:ASN:ND2	53:DU:95:LEU:HG	2.26	0.50
58:DZ:70:LEU:HD23	58:DZ:70:LEU:N	2.26	0.50
1:AA:187:C:O2	20:AT:104:LEU:HD23	2.11	0.50
1:AA:500:G:O2'	1:AA:548:G:N2	2.45	0.50
1:AA:663:A:H5'	1:AA:836:G:OP1	2.12	0.50
1:AA:1170:A:C2'	1:AA:1171:G:H5'	2.40	0.50
1:AA:1447:A:N3	1:AA:1447:A:H2'	2.27	0.50
2:AB:165:VAL:O	2:AB:167:PRO:CD	2.59	0.50
2:AB:185:ILE:O	2:AB:186:ALA:HB2	2.11	0.50
2:AB:224:GLN:O	2:AB:227:GLY:N	2.44	0.50
2:AB:229:VAL:O	2:AB:230:VAL:HG13	2.10	0.50
4:AD:34:GLU:O	4:AD:35:ARG:HB2	2.12	0.50
4:AD:159:ARG:HG3	4:AD:159:ARG:HH11	1.77	0.50
5:AE:11:ILE:HD12	5:AE:31:LEU:HD11	1.92	0.50
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.25	0.50
10:AJ:98:ILE:O	10:AJ:99:LYS:HD3	2.11	0.50
11:AK:54:ARG:O	11:AK:57:THR:HG22	2.11	0.50
11:AK:125:PHE:C	11:AK:127:LYS:N	2.65	0.50
15:AO:81:LEU:O	15:AO:82:ILE:C	2.49	0.50
17:AQ:90:ILE:O	17:AQ:91:ARG:C	2.47	0.50
19:AS:9:VAL:HG12	19:AS:39:THR:HB	1.93	0.50
22:AW:55:U:H3'	22:AW:55:U:O2	2.11	0.50
25:AZ:221:PHE:HA	25:AZ:244:ARG:O	2.12	0.50
25:AZ:310:ILE:HG21	25:AZ:379:ALA:HB1	1.93	0.50
27:B1:8:SER:HB2	27:B1:10:LYS:HG3	1.94	0.50
28:B2:57:ILE:HG22	28:B2:61:LEU:CG	2.42	0.50
31:B5:13:LYS:NZ	36:BA:516:C:P	2.85	0.50
31:B5:40:LYS:HZ2	31:B5:45:VAL:CA	2.23	0.50
33:B7:39:ARG:HD3	36:BA:458:G:O2'	2.11	0.50
36:BA:83:G:O2'	36:BA:84:A:H8	1.90	0.50
36:BA:183:C:C5'	36:BA:433:C:H4'	2.41	0.50
36:BA:216:A:C2'	36:BA:217:G:H5'	2.41	0.50
36:BA:327:G:C2	36:BA:336:C:N3	2.80	0.50
36:BA:584:C:H2'	36:BA:585:G:C5'	2.38	0.50
36:BA:632:A:O2'	36:BA:633:A:H5'	2.11	0.50
36:BA:654(H):G:H2'	36:BA:654(I):C:H5'	1.94	0.50
36:BA:904:C:H6	36:BA:904:C:OP2	1.94	0.50
36:BA:1019:U:HO2'	36:BA:1021:A:H2	1.57	0.50
36:BA:1040:C:C4	36:BA:1041:C:C5	2.99	0.50
36:BA:1540:U:H3'	36:BA:1541:G:H3'	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1567:A:OP2	39:BD:84:TYR:OH	2.25	0.50
36:BA:1697:G:H5''	36:BA:1979:C:OP1	2.12	0.50
36:BA:1747(A):G:H3'	36:BA:1748:G:H5''	1.93	0.50
36:BA:1902:C:H4'	39:BD:244:ARG:CB	2.42	0.50
36:BA:2138:C:H2'	36:BA:2139:C:C6	2.46	0.50
36:BA:2148:G:O2'	36:BA:2149:G:H5'	2.11	0.50
36:BA:2247:A:H2'	36:BA:2248:C:O4'	2.11	0.50
36:BA:2312:U:H5''	42:BG:74:LYS:HZ2	1.76	0.50
36:BA:2601:C:H2'	36:BA:2603:G:H8	1.76	0.50
36:BA:2758:A:HO2'	36:BA:2759:G:H8	1.59	0.50
39:BD:147:LEU:HD21	39:BD:183:ARG:CZ	2.41	0.50
39:BD:241:PRO:C	39:BD:242:ARG:HD2	2.32	0.50
40:BE:11:MET:HB2	40:BE:23:VAL:O	2.12	0.50
40:BE:11:MET:HB3	40:BE:24:THR:HA	1.93	0.50
41:BF:9:ILE:HG23	41:BF:13:SER:O	2.10	0.50
41:BF:118:ALA:CB	41:BF:123:LEU:HD22	2.42	0.50
41:BF:188:ARG:HB3	48:BP:7:ARG:HD3	1.93	0.50
43:BH:68:THR:HA	43:BH:71:LEU:CB	2.40	0.50
49:BQ:27:VAL:HG12	49:BQ:29:PHE:N	2.17	0.50
51:BS:37:ALA:HB2	51:BS:99:LYS:HZ1	1.73	0.50
57:BY:86:ARG:O	57:BY:92:ASN:HA	2.12	0.50
58:BZ:41:LEU:HD23	58:BZ:42:VAL:N	2.25	0.50
58:BZ:50:GLN:O	58:BZ:51:ALA:C	2.50	0.50
1:CA:361:G:O2'	1:CA:362:G:H5'	2.11	0.50
1:CA:403:C:O2'	1:CA:404:U:H5'	2.12	0.50
1:CA:428:G:H4'	1:CA:429:U:O5'	2.11	0.50
1:CA:762:C:H2'	1:CA:763:G:H8	1.75	0.50
1:CA:1298:C:OP2	7:CG:114:ARG:NH2	2.45	0.50
1:CA:1353:G:H2'	1:CA:1354:C:H6	1.73	0.50
1:CA:1504:G:H1'	1:CA:1505:G:OP2	2.12	0.50
2:CB:127:ILE:C	2:CB:129:GLU:H	2.14	0.50
4:CD:105:VAL:HG21	4:CD:126:ILE:HG12	1.92	0.50
5:CE:20:GLN:O	5:CE:22:GLY:N	2.45	0.50
8:CH:64:LYS:CD	8:CH:79:VAL:HG21	2.37	0.50
24:CY:48:C:H4'	24:CY:49:G:H5''	1.93	0.50
25:CZ:17:ILE:HD13	25:CZ:102:ALA:HB1	1.92	0.50
25:CZ:27:LEU:HD12	25:CZ:27:LEU:O	2.11	0.50
25:CZ:99:MET:N	25:CZ:241:ARG:HH21	2.09	0.50
25:CZ:316:PHE:HA	25:CZ:404:LEU:HD23	1.93	0.50
31:D5:31:VAL:HG11	36:DA:2886:G:N2	2.22	0.50
33:D7:24:THR:C	33:D7:26:GLY:H	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:107:C:H1'	36:DA:294:A:N3	2.26	0.50
36:DA:195:A:N6	36:DA:198:C:OP2	2.44	0.50
36:DA:664:C:O4'	36:DA:940:G:H5''	2.12	0.50
36:DA:961:C:C5	36:DA:2031:A:C2	3.00	0.50
36:DA:1351:C:N3	36:DA:1381:G:C2	2.79	0.50
36:DA:1425:G:H2'	36:DA:1426:G:O4'	2.11	0.50
36:DA:1509(B):A:O2'	36:DA:1510:G:H5'	2.11	0.50
36:DA:1827:C:C2'	36:DA:1828:G:H5'	2.41	0.50
36:DA:2312:U:C2'	36:DA:2313:C:C5'	2.88	0.50
39:DD:226:MET:HB3	39:DD:230:ASP:CB	2.38	0.50
39:DD:232:PRO:HG2	39:DD:248:SER:O	2.12	0.50
41:DF:127:GLU:HB2	41:DF:196:LEU:CD1	2.41	0.50
43:DH:85:LYS:HG3	43:DH:141:VAL:HG12	1.94	0.50
52:DT:115:ARG:HG3	52:DT:115:ARG:HH11	1.76	0.50
52:DT:121:ILE:O	52:DT:124:ASP:N	2.41	0.50
55:DW:4:LYS:HA	55:DW:106:ILE:HG22	1.93	0.50
1:AA:106:C:O2	1:AA:379:C:H4'	2.10	0.50
1:AA:175:C:H4'	20:AT:25:ARG:NH1	2.27	0.50
1:AA:438:G:H5'	4:AD:123:HIS:ND1	2.13	0.50
1:AA:508:C:O2'	1:AA:509:A:P	2.69	0.50
1:AA:734:G:O2'	1:AA:735:C:C5'	2.60	0.50
1:AA:797:C:OP1	11:AK:124:LYS:CE	2.57	0.50
1:AA:966:G:O2'	1:AA:967:C:O5'	2.30	0.50
1:AA:1054:C:O2'	1:AA:1055:A:H5''	2.11	0.50
1:AA:1217:C:OP1	14:AN:9:LYS:HE3	2.12	0.50
1:AA:1221:G:P	19:AS:36:ARG:HD3	2.51	0.50
2:AB:127:ILE:HG23	2:AB:135:GLN:NE2	2.27	0.50
2:AB:204:ASN:HD21	2:AB:206:ASP:N	2.10	0.50
3:AC:18:TRP:HE1	14:AN:55:GLY:H	1.60	0.50
4:AD:92:VAL:HG12	4:AD:96:LEU:HD13	1.93	0.50
4:AD:100:ARG:HG3	4:AD:100:ARG:NH1	2.26	0.50
6:AF:97:PHE:HD2	18:AR:31:LEU:HD21	1.77	0.50
8:AH:17:THR:HB	8:AH:78:GLN:CD	2.31	0.50
8:AH:89:PRO:HA	8:AH:92:ARG:CD	2.41	0.50
11:AK:123:LYS:HA	11:AK:126:ARG:HB3	1.92	0.50
12:AL:86:ARG:HG2	12:AL:87:GLY:N	2.26	0.50
13:AM:118:ALA:HB3	22:AV:29:G:C5'	2.42	0.50
20:AT:53:LEU:O	20:AT:54:LYS:C	2.50	0.50
22:AW:53:G:N2	22:AW:54:U:H3	2.10	0.50
24:AY:56:C:H1'	36:BA:1067:A:H1'	1.94	0.50
25:AZ:145:GLU:O	25:AZ:149:LEU:N	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:305:ALA:HB1	25:AZ:309:SER:HB3	1.93	0.50
28:B2:3:LEU:HD23	28:B2:3:LEU:C	2.32	0.50
28:B2:41:ILE:HG13	28:B2:43:GLN:H	1.77	0.50
33:B7:11:LYS:NZ	36:BA:685:A:OP1	2.41	0.50
36:BA:37:C:O2	36:BA:444:C:C2	2.64	0.50
36:BA:272:G:H1	36:BA:404:C:H42	1.57	0.50
36:BA:391:G:H2'	36:BA:392:C:H5'	1.91	0.50
36:BA:635:C:H1'	36:BA:639:U:H5''	1.93	0.50
36:BA:852:G:HO2'	36:BA:853:G:H5'	1.77	0.50
36:BA:966:G:H2'	36:BA:967:C:H6	1.75	0.50
36:BA:1171:G:N7	36:BA:1173:G:H1'	2.27	0.50
36:BA:1202:C:O5'	36:BA:1202:C:H6	1.95	0.50
36:BA:1652:A:C6	36:BA:1653:G:C2	3.00	0.50
36:BA:1741:A:H3'	36:BA:1742:G:H8	1.77	0.50
36:BA:1861:G:O2'	36:BA:1862:G:H5'	2.11	0.50
36:BA:2036:C:H5'	36:BA:2036:C:C6	2.39	0.50
36:BA:2152:G:C2	36:BA:2153:G:C8	2.99	0.50
36:BA:2199:A:OP2	36:BA:2200:C:H5	1.94	0.50
36:BA:2599:G:H5''	36:BA:2599:G:H8	1.76	0.50
38:BC:70:LYS:HD2	38:BC:177:LYS:HZ3	1.76	0.50
39:BD:172:TYR:CD1	39:BD:186:HIS:HA	2.46	0.50
40:BE:116:VAL:HG21	40:BE:122:PHE:CE2	2.46	0.50
46:BN:31:ALA:HA	46:BN:34:LEU:HB2	1.92	0.50
46:BN:83:LYS:CG	46:BN:84:LYS:N	2.72	0.50
46:BN:133:GLN:CG	46:BN:134:ARG:H	2.18	0.50
51:BS:98:VAL:CG1	51:BS:100:ALA:HB2	2.41	0.50
52:BT:22:PHE:HA	52:BT:90:GLN:OE1	2.12	0.50
52:BT:70:VAL:CG1	52:BT:71:GLY:N	2.75	0.50
52:BT:89:VAL:HB	52:BT:91:ARG:NE	2.27	0.50
54:BV:49:THR:CB	54:BV:50:PRO:CD	2.88	0.50
57:BY:76:CYS:O	57:BY:77:PRO:C	2.50	0.50
58:BZ:69:THR:CG2	58:BZ:90:VAL:HA	2.40	0.50
1:CA:38:G:H22	1:CA:397:A:C5'	2.25	0.50
1:CA:1003:G:N2	1:CA:1038:C:C2	2.80	0.50
1:CA:1041:A:H2'	1:CA:1042:G:H8	1.71	0.50
1:CA:1433:A:H2'	1:CA:1434:A:H8	1.76	0.50
2:CB:28:PHE:O	2:CB:28:PHE:CD1	2.65	0.50
2:CB:60:ASP:CB	2:CB:64:ARG:HH21	2.25	0.50
2:CB:114:ARG:NH1	2:CB:118:LEU:HD21	2.26	0.50
2:CB:164:VAL:HG12	2:CB:165:VAL:H	1.75	0.50
3:CC:60:ALA:H	3:CC:63:ASN:ND2	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:65:ARG:HD2	4:CD:72:GLU:CA	2.42	0.50
4:CD:114:ARG:HG3	4:CD:114:ARG:NH1	2.23	0.50
10:CJ:4:ILE:O	10:CJ:74:ILE:CG1	2.60	0.50
10:CJ:51:ARG:H	10:CJ:60:ARG:HA	1.77	0.50
13:CM:66:LEU:O	13:CM:70:LEU:HB3	2.12	0.50
14:CN:7:ILE:HG13	14:CN:8:GLU:H	1.75	0.50
16:CP:58:TYR:O	16:CP:62:VAL:HG22	2.12	0.50
18:CR:75:ILE:C	18:CR:77:GLY:N	2.65	0.50
25:CZ:27:LEU:HD23	25:CZ:105:VAL:HG22	1.94	0.50
27:D1:70:VAL:O	27:D1:71:TYR:C	2.49	0.50
29:D3:42:ALA:O	29:D3:44:ARG:N	2.45	0.50
31:D5:56:LYS:O	31:D5:57:VAL:C	2.49	0.50
32:D6:19:ARG:NH1	36:DA:2400:G:O2'	2.44	0.50
32:D6:38:LYS:HA	32:D6:48:VAL:HA	1.93	0.50
34:D8:49:VAL:HG12	34:D8:50:LEU:H	1.76	0.50
36:DA:324:A:H2'	36:DA:325:G:O4'	2.12	0.50
36:DA:379:G:C6	36:DA:396:G:O6	2.65	0.50
36:DA:860:U:O2	36:DA:860:U:O4'	2.28	0.50
36:DA:1503:U:N1	36:DA:1504:C:H5	2.10	0.50
36:DA:1781:C:O2	36:DA:1781:C:O4'	2.30	0.50
36:DA:2030:A:H5''	36:DA:2031:A:OP1	2.12	0.50
36:DA:2317:C:H3'	36:DA:2318:G:H21	1.76	0.50
36:DA:2419:U:H2'	36:DA:2420:C:H6	1.76	0.50
37:DB:74:U:H2'	37:DB:75:G:H1'	1.94	0.50
39:DD:177:LEU:HD12	39:DD:181:GLU:OE2	2.11	0.50
39:DD:209:ALA:C	39:DD:210:GLY:O	2.46	0.50
41:DF:7:TYR:HD2	41:DF:16:GLY:N	2.10	0.50
41:DF:170:LEU:HB3	41:DF:173:VAL:CG2	2.42	0.50
42:DG:56:ALA:HB1	42:DG:153:ARG:NH2	2.27	0.50
45:DK:87:UNK:O	45:DK:88:UNK:CB	2.59	0.50
47:DO:79:PHE:CD2	52:DT:72:VAL:HG13	2.47	0.50
48:DP:86:LYS:HB2	48:DP:117:GLU:O	2.12	0.50
49:DQ:67:ARG:O	49:DQ:101:ARG:NH2	2.45	0.50
50:DR:14:SER:HA	50:DR:17:ARG:CZ	2.42	0.50
51:DS:29:PHE:CD2	51:DS:29:PHE:C	2.84	0.50
52:DT:89:VAL:HG12	52:DT:91:ARG:CG	2.40	0.50
53:DU:55:ARG:HA	53:DU:58:ARG:CG	2.41	0.50
57:DY:90:LEU:N	57:DY:90:LEU:HD23	2.27	0.50
58:DZ:98:MET:O	58:DZ:126:VAL:HG22	2.11	0.50
1:AA:47:C:O2'	1:AA:48:C:O5'	2.26	0.50
1:AA:276:G:O2'	17:AQ:68:ARG:NH1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:427:U:OP1	4:AD:13:ARG:NH2	2.44	0.50
1:AA:946:A:C6	1:AA:947:G:O6	2.64	0.50
1:AA:1117:G:O2'	9:AI:104:ARG:HD3	2.10	0.50
1:AA:1126:U:OP2	1:AA:1281:U:O2	2.29	0.50
3:AC:130:VAL:O	3:AC:134:ILE:HG13	2.11	0.50
4:AD:21:LEU:HD11	4:AD:66:ARG:O	2.12	0.50
5:AE:32:VAL:O	5:AE:43:LEU:CD1	2.60	0.50
5:AE:71:LEU:O	5:AE:72:GLN:CG	2.59	0.50
7:AG:31:MET:C	7:AG:32:ARG:HG3	2.32	0.50
8:AH:20:TYR:HE2	8:AH:75:ARG:CD	2.24	0.50
8:AH:21:LYS:O	8:AH:22:GLU:C	2.50	0.50
8:AH:50:ARG:HG3	8:AH:50:ARG:HH11	1.77	0.50
11:AK:80:VAL:HG22	11:AK:104:GLN:O	2.12	0.50
13:AM:113:PRO:O	13:AM:115:LYS:HD3	2.12	0.50
14:AN:9:LYS:HG2	14:AN:9:LYS:O	2.11	0.50
16:AP:74:LEU:HD22	16:AP:79:VAL:HG21	1.93	0.50
19:AS:79:THR:O	19:AS:80:TYR:HB3	2.10	0.50
24:AY:52:A:C2	24:AY:63:G:N1	2.80	0.50
24:AY:65:C:H2'	24:AY:66:U:C6	2.46	0.50
25:AZ:19:HIS:CG	25:AZ:115:GLN:HB2	2.46	0.50
25:AZ:191:GLY:HA3	25:AZ:197:ASP:CB	2.28	0.50
26:B0:67:VAL:HG13	26:B0:81:VAL:HG22	1.93	0.50
27:B1:26:ARG:HG3	27:B1:27:GLU:OE1	2.12	0.50
28:B2:5:GLU:O	28:B2:9:GLN:NE2	2.45	0.50
36:BA:251:A:H2'	36:BA:252:G:C4'	2.41	0.50
36:BA:263:C:O2'	36:BA:264:C:H5'	2.11	0.50
36:BA:862:G:N3	36:BA:863:A:C1'	2.74	0.50
36:BA:983:A:H2'	36:BA:984:A:O4'	2.12	0.50
36:BA:1087:G:C8	36:BA:1088:A:H4'	2.47	0.50
36:BA:1091:G:H2'	36:BA:1092:C:C6	2.46	0.50
36:BA:1151:G:H2'	36:BA:1152:C:O4'	2.11	0.50
36:BA:1298:C:H1'	36:BA:1302:A:N3	2.27	0.50
36:BA:1337:G:H2'	36:BA:1338:G:H8	1.77	0.50
36:BA:1404:C:H2'	36:BA:1404:C:O2	2.12	0.50
36:BA:1520:G:C2'	36:BA:1523:U:H5'	2.41	0.50
36:BA:1747(A):G:C2'	36:BA:1748:G:H5''	2.41	0.50
36:BA:1810:A:H2'	36:BA:1811:G:O4'	2.11	0.50
36:BA:1968:G:H2'	36:BA:1969:A:H5''	1.94	0.50
36:BA:2303:G:O2'	42:BG:132:ASN:HB3	2.12	0.50
36:BA:2563:U:H2'	36:BA:2565:A:OP2	2.11	0.50
38:BC:81:GLU:O	38:BC:85:GLU:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:30:GLU:CB	39:BD:35:LYS:HE3	2.39	0.50
42:BG:52:ILE:HG12	42:BG:53:LEU:N	2.27	0.50
42:BG:120:LEU:O	42:BG:121:ASN:C	2.50	0.50
49:BQ:141:GLN:HE22	58:BZ:72:ARG:HA	1.77	0.50
50:BR:10:LEU:HD22	50:BR:17:ARG:HE	1.77	0.50
1:CA:198:G:O2'	1:CA:199:G:H8	1.95	0.50
1:CA:235:C:OP1	17:CQ:70:ARG:HD3	2.12	0.50
1:CA:530:G:O2'	24:CY:35:G:C4'	2.59	0.50
1:CA:553:A:H2'	1:CA:554:C:H6	1.76	0.50
1:CA:598:U:H2'	1:CA:599:C:C6	2.47	0.50
1:CA:681:C:O2'	1:CA:682:G:H5'	2.11	0.50
1:CA:1003:G:O2'	1:CA:1004:A:H4'	2.11	0.50
1:CA:1057:G:H3'	1:CA:1058:G:H8	1.77	0.50
1:CA:1314:C:H2'	1:CA:1315:U:C5	2.47	0.50
2:CB:58:ILE:O	2:CB:59:GLU:C	2.50	0.50
2:CB:121:LEU:HA	2:CB:124:SER:CB	2.39	0.50
3:CC:103:VAL:HG12	3:CC:104:GLN:N	2.27	0.50
4:CD:14:ARG:HG3	4:CD:15:GLU:OE1	2.12	0.50
5:CE:30:ALA:O	5:CE:45:PHE:HA	2.12	0.50
6:CF:62:TRP:NE1	18:CR:35:ARG:CZ	2.75	0.50
7:CG:144:MET:CE	22:CW:31:A:H1'	2.42	0.50
9:CI:20:ARG:O	9:CI:60:ASP:HB2	2.11	0.50
13:CM:39:ILE:HG22	13:CM:40:ASN:N	2.27	0.50
18:CR:55:ARG:HG3	18:CR:55:ARG:NH1	2.27	0.50
20:CT:48:LYS:O	20:CT:49:ALA:C	2.49	0.50
22:CV:58:A:O2'	22:CV:59:U:H2'	2.12	0.50
22:CW:7:A:H5''	22:CW:8:U:OP2	2.11	0.50
28:D2:7:ARG:HG2	28:D2:7:ARG:NH1	2.26	0.50
30:D4:22:ILE:HG12	42:DG:108:ASN:HD22	1.75	0.50
36:DA:204:A:OP1	36:DA:204:A:H8	1.95	0.50
36:DA:303:U:H2'	36:DA:304:G:C8	2.46	0.50
36:DA:393:C:H2'	36:DA:394:A:C8	2.46	0.50
36:DA:452:G:OP1	41:DF:57:VAL:HG13	2.12	0.50
36:DA:471:A:C2'	36:DA:472:A:C5'	2.90	0.50
36:DA:712:G:H1	36:DA:719:C:H42	1.59	0.50
36:DA:864:G:N2	36:DA:913:U:O2	2.45	0.50
36:DA:953:A:OP2	49:DQ:16:ARG:NH2	2.44	0.50
36:DA:955:C:O2'	36:DA:956:G:H5'	2.11	0.50
36:DA:1087:G:H8	36:DA:1088:A:H4'	1.76	0.50
36:DA:1400:G:C6	36:DA:1401:G:C6	3.00	0.50
36:DA:1810:A:H2'	36:DA:1811:G:O4'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1924:C:O2'	36:DA:1925:C:H5'	2.11	0.50
36:DA:2037:G:H2'	36:DA:2038:G:H8	1.75	0.50
36:DA:2222:G:C2	36:DA:2223:G:C8	2.99	0.50
36:DA:2443:C:HO2'	36:DA:2444:G:H5'	1.74	0.50
36:DA:2460:U:H2'	36:DA:2461:C:H6	1.76	0.50
36:DA:2563:U:H2'	36:DA:2565:A:OP2	2.11	0.50
36:DA:2601:C:H2'	36:DA:2603:G:H8	1.77	0.50
42:DG:130:ASN:OD1	42:DG:160:VAL:HG13	2.12	0.50
46:DN:116:LEU:O	46:DN:119:ARG:HB2	2.11	0.50
48:DP:14:LYS:O	48:DP:15:ARG:HB2	2.11	0.50
49:DQ:64:ILE:HG22	49:DQ:65:PHE:N	2.27	0.50
50:DR:52:ILE:HD12	50:DR:79:LEU:HD21	1.92	0.50
51:DS:22:GLY:O	51:DS:23:ARG:O	2.30	0.50
52:DT:61:PHE:CZ	52:DT:76:PHE:HD1	2.30	0.50
52:DT:85:LYS:HB3	52:DT:85:LYS:HZ3	1.75	0.50
53:DU:33:ARG:O	53:DU:36:ARG:HB3	2.12	0.50
1:AA:267:C:H2'	1:AA:268:C:C6	2.39	0.50
1:AA:386:C:O2'	1:AA:387:U:H5'	2.11	0.50
1:AA:507:C:P	1:AA:508:C:H3'	2.52	0.50
1:AA:584:G:OP2	17:AQ:87:LYS:NZ	2.45	0.50
1:AA:1186:G:N2	1:AA:1187:G:H1'	2.27	0.50
1:AA:1345:U:C6	1:AA:1377:A:C2	3.00	0.50
2:AB:19:HIS:NE2	2:AB:206:ASP:HB2	2.26	0.50
3:AC:142:MET:SD	3:AC:148:GLY:CA	3.00	0.50
4:AD:58:LEU:O	4:AD:62:GLN:HG2	2.11	0.50
4:AD:170:VAL:CG1	4:AD:171:GLY:N	2.74	0.50
7:AG:64:GLN:HE21	7:AG:68:ASN:HD22	1.58	0.50
11:AK:22:HIS:HB3	11:AK:29:ILE:CG2	2.27	0.50
12:AL:71:PRO:O	12:AL:102:ARG:NH1	2.45	0.50
22:AV:9:A:C4	22:AV:46:G:N2	2.79	0.50
22:AV:46:G:H5'	22:AV:47:U:OP2	2.11	0.50
25:AZ:20:VAL:HA	25:AZ:24:LYS:NZ	2.21	0.50
25:AZ:306:LYS:O	25:AZ:308:GLY:N	2.45	0.50
25:AZ:368:VAL:HG12	25:AZ:369:THR:N	2.20	0.50
29:B3:42:ALA:O	29:B3:44:ARG:N	2.45	0.50
36:BA:811:U:O2'	36:BA:812:C:H5''	2.12	0.50
36:BA:860:U:O2	36:BA:860:U:O4'	2.28	0.50
36:BA:953:A:OP2	49:BQ:16:ARG:NH2	2.44	0.50
36:BA:1012:U:C4	46:BN:28:THR:HG21	2.47	0.50
36:BA:1132:A:C8	36:BA:1133:U:H5	2.30	0.50
36:BA:1352:U:O2'	36:BA:1353:A:H5'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1491:G:C6	36:BA:1500:G:C2	3.00	0.50
36:BA:1567:A:OP1	39:BD:60:ARG:NH2	2.43	0.50
36:BA:1639:U:O2'	36:BA:1640:C:H5''	2.12	0.50
36:BA:1668:A:N3	36:BA:1670:C:N3	2.59	0.50
36:BA:1722:A:H2	36:BA:1740:G:H2'	1.77	0.50
36:BA:1772:G:N2	36:BA:1774:C:C5'	2.75	0.50
36:BA:1827:C:H5''	36:BA:1971:A:O3'	2.12	0.50
36:BA:2281:C:H2'	36:BA:2282:G:C8	2.47	0.50
36:BA:2329:G:H2'	36:BA:2330:G:C8	2.46	0.50
36:BA:2523:G:C3'	36:BA:2524:G:H5''	2.41	0.50
36:BA:2554:U:C2	36:BA:2555:U:H5	2.30	0.50
36:BA:2674:G:H2'	36:BA:2675:A:O4'	2.12	0.50
39:BD:177:LEU:HD12	39:BD:181:GLU:OE2	2.12	0.50
40:BE:57:LYS:HE2	40:BE:59:VAL:CG1	2.41	0.50
40:BE:167:VAL:HG13	40:BE:170:LEU:CD1	2.28	0.50
40:BE:197:ILE:HD11	40:BE:199:ARG:HH22	1.76	0.50
41:BF:7:TYR:HE1	41:BF:196:LEU:HD11	1.76	0.50
42:BG:32:PRO:HA	42:BG:162:THR:HB	1.94	0.50
42:BG:83:ARG:C	42:BG:85:GLY:H	2.15	0.50
43:BH:149:ARG:HD3	43:BH:164:TYR:HD1	1.76	0.50
49:BQ:52:VAL:O	49:BQ:54:MET:N	2.45	0.50
49:BQ:136:ALA:C	49:BQ:138:ASP:H	2.14	0.50
50:BR:3:HIS:O	50:BR:5:LYS:N	2.45	0.50
51:BS:24:LEU:HD13	51:BS:41:ASP:HB2	1.93	0.50
51:BS:88:ASP:O	51:BS:89:ARG:HB3	2.12	0.50
53:BU:3:ARG:NH1	53:BU:5:LYS:HB3	2.27	0.50
56:BX:36:LYS:NZ	56:BX:55:ASN:HA	2.27	0.50
57:BY:46:LYS:H	57:BY:62:GLU:CG	2.02	0.50
58:BZ:63:ASP:OD1	58:BZ:65:GLN:NE2	2.45	0.50
1:CA:319:G:H4'	1:CA:1468:A:H4'	1.93	0.50
1:CA:508:C:O2'	1:CA:509:A:P	2.69	0.50
1:CA:544:G:OP2	4:CD:66:ARG:NH2	2.44	0.50
1:CA:632:A:C8	1:CA:633:G:C8	3.00	0.50
1:CA:792:A:O2'	1:CA:793:U:P	2.70	0.50
1:CA:827:U:H5'	1:CA:828:A:OP2	2.12	0.50
1:CA:896:C:O2'	1:CA:897:C:H5'	2.12	0.50
1:CA:1348:U:O2'	1:CA:1349:A:C8	2.57	0.50
1:CA:1442(A):G:H2'	52:DT:122:ASP:OD2	2.11	0.50
2:CB:77:ALA:HA	2:CB:80:ILE:CD1	2.36	0.50
2:CB:224:GLN:O	2:CB:227:GLY:N	2.45	0.50
2:CB:229:VAL:O	2:CB:230:VAL:HG13	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:61:LYS:O	4:CD:64:LEU:N	2.44	0.50
4:CD:62:GLN:HE22	4:CD:65:ARG:HH21	1.58	0.50
4:CD:85:LYS:HD3	4:CD:92:VAL:HG11	1.92	0.50
5:CE:64:ARG:HG3	5:CE:64:ARG:HH11	1.75	0.50
8:CH:14:ARG:CB	8:CH:14:ARG:NH1	2.71	0.50
12:CL:70:ILE:HD13	12:CL:77:LEU:HD12	1.93	0.50
13:CM:32:GLU:C	13:CM:34:LEU:N	2.62	0.50
17:CQ:60:ILE:O	17:CQ:71:PHE:HD1	1.94	0.50
18:CR:53:ARG:CZ	18:CR:60:ALA:H	2.24	0.50
20:CT:32:ALA:O	20:CT:36:LEU:HB2	2.12	0.50
22:CW:34:G:H22	23:CX:18:G:N2	2.10	0.50
25:CZ:347:THR:CG2	25:CZ:348:ASP:N	2.74	0.50
27:D1:18:ILE:CG2	27:D1:19:GLN:N	2.73	0.50
31:D5:2:ALA:N	36:DA:747:U:H3	2.10	0.50
31:D5:41:PRO:CG	31:D5:44:THR:OG1	2.48	0.50
36:DA:34:C:H41	36:DA:447:A:H61	1.55	0.50
36:DA:270:A:H2'	36:DA:271:A:O4'	2.12	0.50
36:DA:672:C:C2'	36:DA:673:C:C5'	2.89	0.50
36:DA:809:G:O2'	36:DA:810:U:H5'	2.10	0.50
36:DA:953:A:H2'	36:DA:954:G:C8	2.44	0.50
36:DA:1277:G:C2	36:DA:1294:U:O2	2.65	0.50
36:DA:1477:A:H5'	36:DA:1478:G:OP2	2.11	0.50
36:DA:1485:G:H1'	36:DA:1505:C:N4	2.27	0.50
36:DA:1899:G:N2	36:DA:1903:G:C2	2.79	0.50
38:DC:20:TYR:CD1	38:DC:20:TYR:N	2.80	0.50
38:DC:113:VAL:CG2	38:DC:136:LEU:HD22	2.42	0.50
39:DD:136:ILE:CG2	39:DD:140:THR:OG1	2.59	0.50
40:DE:128:SER:OG	40:DE:129:HIS:N	2.45	0.50
41:DF:157:VAL:O	41:DF:158:THR:HB	2.12	0.50
41:DF:162:LEU:H	41:DF:162:LEU:CD1	2.25	0.50
42:DG:27:ASN:O	42:DG:29:TRP:N	2.39	0.50
42:DG:80:PHE:O	42:DG:81:LYS:HB2	2.11	0.50
45:DK:99:UNK:O	45:DK:100:UNK:O	2.30	0.50
46:DN:32:THR:HG22	46:DN:37:LYS:HB3	1.94	0.50
51:DS:77:ALA:C	51:DS:79:ALA:N	2.65	0.50
53:DU:112:ARG:O	53:DU:115:ALA:HB3	2.12	0.50
55:DW:59:VAL:HA	55:DW:63:ASP:HA	1.93	0.50
1:AA:54:C:H2'	1:AA:352:C:H42	1.77	0.50
1:AA:113:G:O2'	1:AA:354:G:H5'	2.12	0.50
1:AA:194:C:H2'	1:AA:195:A:C5'	2.38	0.50
1:AA:254:G:H2'	1:AA:255:G:H8	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:417:C:O5'	1:AA:417:C:H6	1.94	0.50
1:AA:445:G:H2'	1:AA:446:G:C8	2.47	0.50
1:AA:815:A:N7	1:AA:1509:C:O2'	2.33	0.50
1:AA:1129:C:H4'	1:AA:1130:A:C8	2.47	0.50
1:AA:1350:A:O2'	1:AA:1351:U:H5'	2.11	0.50
1:AA:1407:C:O2	1:AA:1407:C:H2'	2.11	0.50
1:AA:1486:G:H2'	1:AA:1487:G:C8	2.46	0.50
2:AB:54:THR:HG22	2:AB:58:ILE:CD1	2.38	0.50
2:AB:61:LEU:HA	2:AB:64:ARG:CZ	2.40	0.50
3:AC:48:TYR:C	3:AC:50:ALA:N	2.65	0.50
3:AC:96:GLY:C	3:AC:97:LYS:HG2	2.32	0.50
4:AD:67:ILE:CG2	4:AD:67:ILE:O	2.60	0.50
5:AE:72:GLN:O	5:AE:75:THR:HG22	2.12	0.50
6:AF:7:ASN:C	6:AF:8:ILE:HG13	2.32	0.50
8:AH:39:LEU:HB2	8:AH:45:ILE:HD11	1.93	0.50
8:AH:54:ASP:O	8:AH:56:LYS:HG3	2.12	0.50
8:AH:85:ARG:HG3	8:AH:85:ARG:NH1	2.27	0.50
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	2.27	0.50
13:AM:14:ARG:HG2	13:AM:42:ALA:O	2.12	0.50
13:AM:14:ARG:H	13:AM:44:ARG:HH11	1.60	0.50
15:AO:54:ARG:HD3	15:AO:54:ARG:O	2.11	0.50
17:AQ:48:GLU:OE1	17:AQ:50:LYS:HD3	2.12	0.50
25:AZ:316:PHE:HA	25:AZ:404:LEU:HD23	1.93	0.50
25:AZ:354:GLN:HE21	25:AZ:371:THR:CB	2.24	0.50
28:B2:4:SER:CA	28:B2:7:ARG:HD2	2.42	0.50
28:B2:33:MET:O	28:B2:34:GLU:C	2.49	0.50
34:B8:18:ALA:HB2	36:BA:628:G:H5''	1.93	0.50
36:BA:336:C:H4'	57:BY:7:VAL:HG22	1.94	0.50
36:BA:336:C:H5''	57:BY:7:VAL:HG11	1.94	0.50
36:BA:414:C:N3	36:BA:2410:G:N2	2.60	0.50
36:BA:521:G:H2'	36:BA:522:G:C8	2.46	0.50
36:BA:590:A:H2'	36:BA:591:C:C6	2.47	0.50
36:BA:806:C:H2'	36:BA:807:U:H6	1.77	0.50
36:BA:862:G:H3'	36:BA:863:A:C8	2.47	0.50
36:BA:1060:U:H1'	36:BA:1061:U:H5''	1.94	0.50
36:BA:1271:G:C2	36:BA:1617:C:H4'	2.46	0.50
36:BA:1277:G:N1	36:BA:1294:U:C2	2.79	0.50
36:BA:1590:U:C3'	36:BA:1591:G:H5''	2.41	0.50
36:BA:1829:A:O2'	39:BD:15:PHE:CE1	2.53	0.50
36:BA:1924:C:O2'	36:BA:1925:C:H5'	2.11	0.50
36:BA:2174:C:O2'	38:BC:219:GLY:O	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2282:G:C4'	36:BA:2283:C:O5'	2.60	0.50
36:BA:2374:C:H2'	36:BA:2375:G:O4'	2.12	0.50
36:BA:2752:C:O2	36:BA:2752:C:C2'	2.58	0.50
38:BC:83:ILE:HG12	38:BC:95:GLY:HA3	1.93	0.50
38:BC:83:ILE:HG23	38:BC:95:GLY:HA3	1.94	0.50
38:BC:140:PRO:C	38:BC:142:ALA:N	2.64	0.50
38:BC:182:PRO:HD2	38:BC:183:GLU:OE2	2.11	0.50
40:BE:24:THR:OG1	40:BE:186:GLY:HA2	2.12	0.50
41:BF:3:GLU:O	41:BF:24:LEU:HG	2.12	0.50
41:BF:170:LEU:HB3	41:BF:173:VAL:CG2	2.42	0.50
42:BG:85:GLY:C	42:BG:87:PRO:CD	2.80	0.50
42:BG:113:ARG:O	42:BG:140:ILE:HG22	2.11	0.50
43:BH:18:GLU:HB2	43:BH:25:LYS:HB2	1.94	0.50
46:BN:101:HIS:C	46:BN:103:VAL:N	2.61	0.50
48:BP:96:THR:H	48:BP:99:LEU:HD22	1.77	0.50
49:BQ:43:THR:HA	49:BQ:93:TYR:O	2.12	0.50
51:BS:77:ALA:C	51:BS:79:ALA:N	2.64	0.50
54:BV:58:VAL:CG1	54:BV:97:LYS:HB2	2.42	0.50
1:CA:36:C:H2'	1:CA:37:U:C6	2.47	0.50
1:CA:377:G:P	16:CP:5:ARG:HD3	2.51	0.50
1:CA:406:G:H2'	1:CA:407:G:C8	2.47	0.50
1:CA:538:G:H5''	12:CL:114:LYS:HB2	1.94	0.50
1:CA:669:U:H2'	1:CA:670:G:C8	2.47	0.50
1:CA:1403:C:H1'	1:CA:1500:A:N1	2.27	0.50
1:CA:1413:A:C2	1:CA:1488:G:C2	3.00	0.50
1:CA:1466:C:O2'	1:CA:1467:G:H5'	2.12	0.50
2:CB:106:LYS:CG	2:CB:107:THR:N	2.73	0.50
3:CC:113:ALA:HB3	3:CC:185:GLY:N	2.26	0.50
5:CE:103:GLY:H	5:CE:106:PRO:CG	2.24	0.50
11:CK:123:LYS:HA	11:CK:126:ARG:HB3	1.93	0.50
16:CP:19:ILE:HB	16:CP:37:GLY:O	2.12	0.50
16:CP:23:ASP:O	16:CP:23:ASP:OD1	2.30	0.50
19:CS:63:THR:HG23	19:CS:64:GLU:N	2.26	0.50
25:CZ:356:PRO:O	25:CZ:357:PRO:O	2.30	0.50
26:D0:19:LYS:NZ	26:D0:21:LEU:HD21	2.27	0.50
30:D4:19:GLY:O	30:D4:20:ASN:C	2.49	0.50
32:D6:35:GLU:HB3	32:D6:51:GLU:HG3	1.94	0.50
34:D8:13:ARG:CB	48:DP:63:PRO:HA	2.42	0.50
35:D9:31:LYS:C	35:D9:32:HIS:HD2	2.16	0.50
36:DA:251:A:H2'	36:DA:252:G:C4'	2.42	0.50
36:DA:483:A:H1'	57:DY:60:PHE:HZ	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:807:U:H2'	36:DA:808:G:C8	2.47	0.50
36:DA:830:G:C4	36:DA:2448:A:C6	3.00	0.50
36:DA:904:C:C6	36:DA:904:C:OP2	2.65	0.50
36:DA:926:A:C5'	36:DA:926:A:H8	2.23	0.50
36:DA:1170:G:H5''	36:DA:1173:G:N2	2.26	0.50
36:DA:1202:C:H2'	36:DA:1203:G:C5'	2.34	0.50
36:DA:1605:C:N4	36:DA:1606:G:C2	2.80	0.50
36:DA:1654:A:O2'	40:DE:113:PHE:O	2.20	0.50
36:DA:1843:C:H2'	36:DA:1844:C:C6	2.47	0.50
36:DA:2305:A:N1	42:DG:43:LEU:HD13	2.27	0.50
36:DA:2374:C:H2'	36:DA:2375:G:O4'	2.11	0.50
36:DA:2415:G:H4'	48:DP:66:GLY:O	2.12	0.50
36:DA:2558:C:H2'	36:DA:2559:C:C6	2.47	0.50
39:DD:130:ALA:O	39:DD:131:LEU:HG	2.12	0.50
46:DN:4:TYR:N	46:DN:4:TYR:CD1	2.77	0.50
46:DN:61:ARG:HG3	46:DN:61:ARG:NH1	2.26	0.50
47:DO:11:ALA:HB1	47:DO:98:VAL:CG2	2.34	0.50
47:DO:77:ILE:HD11	52:DT:72:VAL:HG12	1.94	0.50
49:DQ:125:LEU:HD23	49:DQ:125:LEU:N	2.27	0.50
50:DR:28:LEU:CB	50:DR:34:ILE:HG13	2.41	0.50
51:DS:13:ARG:CG	51:DS:14:VAL:H	2.05	0.50
51:DS:24:LEU:HD13	51:DS:41:ASP:HB2	1.93	0.50
52:DT:50:ILE:HG22	52:DT:51:ARG:N	2.27	0.50
55:DW:64:MET:O	55:DW:109:GLU:HG2	2.12	0.50
57:DY:76:CYS:O	57:DY:77:PRO:C	2.50	0.50
1:AA:109:A:C8	1:AA:326:G:H2'	2.46	0.49
1:AA:321:A:H4'	1:AA:1436:U:H5'	1.94	0.49
1:AA:532:A:H3'	1:AA:533:A:C5'	2.42	0.49
1:AA:766:A:C8	1:AA:814:A:C6	3.00	0.49
1:AA:896:C:O2'	1:AA:897:C:H5'	2.11	0.49
1:AA:1286:A:O2'	1:AA:1287:A:C5'	2.60	0.49
2:AB:114:ARG:NH1	2:AB:118:LEU:HD21	2.27	0.49
2:AB:121:LEU:HD23	2:AB:121:LEU:C	2.32	0.49
3:AC:18:TRP:HB3	3:AC:20:SER:H	1.77	0.49
3:AC:26:LYS:CG	3:AC:27:LYS:H	2.20	0.49
3:AC:147:LYS:O	3:AC:203:PHE:HD2	1.93	0.49
4:AD:65:ARG:HD2	4:AD:72:GLU:CA	2.42	0.49
9:AI:95:LYS:C	9:AI:98:PRO:HD2	2.32	0.49
12:AL:83:VAL:CG1	12:AL:84:LEU:N	2.74	0.49
13:AM:70:LEU:C	13:AM:70:LEU:CD2	2.80	0.49
13:AM:120:LYS:HA	13:AM:120:LYS:HE3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:29:ARG:CG	14:AN:29:ARG:NH1	2.75	0.49
20:AT:82:SER:O	20:AT:86:ARG:HB2	2.12	0.49
24:AY:73:A:H2'	24:AY:74:C:O4'	2.12	0.49
25:AZ:176:LEU:HB2	62:AZ:501:GDP:C6	2.46	0.49
25:AZ:223:MET:HB2	25:AZ:242:ILE:HA	1.94	0.49
32:B6:15:GLU:CD	32:B6:18:ARG:NH2	2.65	0.49
33:B7:36:GLN:C	33:B7:38:GLY:N	2.65	0.49
36:BA:251:A:H5'	48:BP:51:PHE:CZ	2.47	0.49
36:BA:693:C:O2'	36:BA:694:U:H5'	2.12	0.49
36:BA:783:A:H2'	36:BA:784:A:O5'	2.12	0.49
36:BA:830:G:C4	36:BA:2448:A:C6	3.00	0.49
36:BA:1173:G:H2'	36:BA:1175:U:C5	2.47	0.49
36:BA:1288:U:C2	36:BA:1327:C:C2	3.00	0.49
36:BA:1328:G:N1	36:BA:1647:G:N2	2.60	0.49
36:BA:1720:U:H2'	36:BA:1721:G:C5'	2.42	0.49
36:BA:1827:C:C2'	36:BA:1828:G:H5'	2.42	0.49
36:BA:1832:C:N4	36:BA:1833:U:C4	2.80	0.49
36:BA:2058:A:O5'	36:BA:2058:A:H8	1.95	0.49
36:BA:2219:G:HO2'	36:BA:2220:G:H5'	1.77	0.49
36:BA:2358:G:C2'	36:BA:2359:C:H5'	2.42	0.49
36:BA:2620:C:C1'	40:BE:156:MET:HB2	2.42	0.49
36:BA:2850:A:C2	50:BR:61:HIS:CD2	2.99	0.49
38:BC:86:ALA:HB3	38:BC:94:VAL:CG1	2.39	0.49
38:BC:120:MET:O	38:BC:121:GLY:C	2.49	0.49
39:BD:18:VAL:HG23	39:BD:211:ARG:NH2	2.27	0.49
39:BD:244:ARG:HG2	39:BD:245:PRO:HB3	1.93	0.49
40:BE:4:ILE:HG12	40:BE:5:LEU:N	2.27	0.49
40:BE:82:ARG:HG3	40:BE:83:ASP:H	1.77	0.49
40:BE:145:LYS:O	40:BE:146:THR:HG23	2.11	0.49
41:BF:33:LEU:O	41:BF:37:VAL:HG23	2.11	0.49
43:BH:169:VAL:O	43:BH:169:VAL:HG13	2.12	0.49
52:BT:47:GLY:HA3	52:BT:65:LYS:HB2	1.94	0.49
52:BT:115:ARG:HG3	52:BT:115:ARG:HH11	1.76	0.49
55:BW:14:PRO:O	55:BW:17:VAL:N	2.45	0.49
57:BY:85:VAL:HG12	57:BY:86:ARG:H	1.75	0.49
58:BZ:151:HIS:HB3	58:BZ:170:THR:HA	1.94	0.49
1:CA:39:G:O2'	1:CA:40:C:H5'	2.12	0.49
1:CA:224:C:H2'	1:CA:225:C:C6	2.46	0.49
1:CA:390:C:H2'	1:CA:391:G:C8	2.48	0.49
1:CA:424:G:C2	1:CA:425:G:N7	2.80	0.49
1:CA:492:G:N2	1:CA:493:G:H1'	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:507:C:H3'	1:CA:508:C:C6	2.46	0.49
1:CA:563:A:N3	1:CA:563:A:C2'	2.74	0.49
1:CA:635:G:O2'	1:CA:636:U:H5'	2.12	0.49
1:CA:858:G:C8	1:CA:858:G:OP2	2.65	0.49
3:CC:13:GLY:C	3:CC:14:ILE:HG22	2.32	0.49
4:CD:14:ARG:HD2	4:CD:59:ARG:NH1	2.27	0.49
4:CD:74:GLN:O	4:CD:77:ASN:HB3	2.12	0.49
4:CD:165:MET:O	4:CD:166:LYS:C	2.49	0.49
5:CE:6:PHE:HB2	5:CE:34:VAL:CG2	2.41	0.49
8:CH:6:ILE:HD12	8:CH:6:ILE:H	1.76	0.49
13:CM:112:GLY:O	13:CM:113:PRO:C	2.51	0.49
15:CO:15:PHE:O	15:CO:27:VAL:HG22	2.12	0.49
16:CP:21:VAL:HG13	16:CP:34:GLU:H	1.77	0.49
17:CQ:27:PHE:CE1	17:CQ:36:ILE:HD11	2.47	0.49
22:CW:16:U:H3'	22:CW:17:C:H5'	1.94	0.49
22:CW:55:U:H3'	22:CW:55:U:O2	2.12	0.49
24:CY:20:H2U:O4'	24:CY:20:H2U:OP2	2.31	0.49
25:CZ:32:THR:HA	25:CZ:70:TYR:HB3	1.94	0.49
25:CZ:93:ILE:HD13	63:CZ:502:KIR:H381	1.94	0.49
25:CZ:219:LYS:HB3	25:CZ:220:PRO:CD	2.41	0.49
25:CZ:246:LYS:HB3	25:CZ:281:ILE:CG2	2.33	0.49
25:CZ:305:ALA:HB1	25:CZ:309:SER:HB3	1.94	0.49
28:D2:31:GLU:HA	28:D2:34:GLU:HB3	1.94	0.49
28:D2:48:HIS:ND1	36:DA:95:G:O2'	2.43	0.49
36:DA:271(C):C:O2'	36:DA:271(D):G:H5'	2.11	0.49
36:DA:304:G:N3	36:DA:314:A:C2	2.80	0.49
36:DA:325:G:O2'	36:DA:326:G:H5'	2.12	0.49
36:DA:389:G:C6	48:DP:70:GLN:HG3	2.46	0.49
36:DA:589:C:H2'	36:DA:590:A:C8	2.48	0.49
36:DA:654(P):C:H2'	36:DA:654(Q):C:O4'	2.12	0.49
36:DA:892:G:H2'	36:DA:893:C:C5	2.47	0.49
36:DA:1112:G:O2'	36:DA:1113:U:H5'	2.12	0.49
36:DA:1221:C:H2'	36:DA:1221(A):C:C6	2.47	0.49
36:DA:1410:G:O2'	36:DA:1411:C:H5'	2.12	0.49
36:DA:1458:C:H4'	36:DA:1459:G:O5'	2.12	0.49
36:DA:1923:U:O2'	36:DA:1924:C:H5'	2.12	0.49
36:DA:2023:G:C5'	36:DA:2617:C:H4'	2.40	0.49
36:DA:2260:C:N4	36:DA:2280:G:H1	2.07	0.49
36:DA:2681:C:H2'	36:DA:2681:C:O2	2.12	0.49
36:DA:2819:G:C6	36:DA:2821:A:N3	2.80	0.49
36:DA:2839:G:H2'	36:DA:2840:C:H6	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DB:79:C:H2'	37:DB:80:U:O4'	2.11	0.49
39:DD:4:LYS:HB2	39:DD:18:VAL:HG12	1.94	0.49
41:DF:11:VAL:HG12	41:DF:12:LEU:N	2.20	0.49
41:DF:185:ASP:HA	41:DF:188:ARG:CG	2.42	0.49
42:DG:141:PHE:HB2	42:DG:144:ILE:CG2	2.42	0.49
43:DH:93:GLY:C	43:DH:94:TYR:HD1	2.15	0.49
46:DN:21:LYS:HE3	46:DN:25:ARG:HB2	1.94	0.49
46:DN:57:ALA:O	46:DN:58:ASP:O	2.29	0.49
47:DO:50:GLY:C	47:DO:52:VAL:H	2.15	0.49
48:DP:143:GLY:C	48:DP:145:PRO:HD3	2.33	0.49
52:DT:13:ARG:NH2	52:DT:15:VAL:CG1	2.75	0.49
53:DU:108:GLU:HG3	54:DV:44:LYS:HG2	1.92	0.49
58:DZ:10:ARG:CG	58:DZ:12:GLY:H	2.25	0.49
58:DZ:50:GLN:C	58:DZ:52:SER:N	2.64	0.49
1:AA:34:C:H1'	12:AL:32:PHE:CE2	2.47	0.49
1:AA:798:G:H2'	1:AA:799:G:O5'	2.12	0.49
1:AA:1285:A:H1'	1:AA:1286:A:C8	2.47	0.49
1:AA:1410:G:C6	1:AA:1491:G:C6	3.00	0.49
2:AB:121:LEU:HA	2:AB:124:SER:CB	2.40	0.49
2:AB:189:ASP:OD1	2:AB:205:ASP:HB3	2.11	0.49
4:AD:31:CYS:O	4:AD:32:ALA:HB3	2.11	0.49
4:AD:43:HIS:O	4:AD:45:GLN:N	2.45	0.49
4:AD:55:ALA:O	4:AD:58:LEU:N	2.45	0.49
5:AE:30:ALA:O	5:AE:45:PHE:HA	2.12	0.49
5:AE:53:LEU:O	5:AE:54:ALA:C	2.51	0.49
5:AE:135:THR:O	5:AE:136:MET:C	2.50	0.49
8:AH:64:LYS:C	8:AH:65:TYR:CD1	2.86	0.49
10:AJ:14:LYS:C	10:AJ:16:LEU:N	2.64	0.49
11:AK:21:ILE:HG13	11:AK:30:VAL:CG1	2.36	0.49
17:AQ:90:ILE:O	17:AQ:93:GLN:N	2.46	0.49
18:AR:45:SER:H	18:AR:51:LEU:HG	1.77	0.49
19:AS:28:LYS:O	19:AS:29:ARG:HG3	2.12	0.49
22:AW:55:U:H2'	22:AW:57:G:OP2	2.13	0.49
25:AZ:155:ARG:HH12	25:AZ:168:VAL:H	1.59	0.49
26:B0:43:THR:HG21	36:BA:2336:A:H61	1.78	0.49
29:B3:15:TYR:HB3	29:B3:16:PRO:HD2	1.94	0.49
29:B3:19:GLN:C	29:B3:21:ALA:H	2.16	0.49
35:B9:12:ASP:CG	35:B9:13:LYS:H	2.15	0.49
36:BA:109:G:H2'	36:BA:110:G:H8	1.77	0.49
36:BA:270:A:H2'	36:BA:271:A:O4'	2.12	0.49
36:BA:271(U):G:C4	36:BA:271(V):G:C8	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:472:A:H2'	36:BA:473:G:H5'	1.94	0.49
36:BA:699:A:C2'	36:BA:700:G:H5'	2.41	0.49
36:BA:849:A:H2'	36:BA:850:C:O4'	2.12	0.49
36:BA:864:G:N2	36:BA:913:U:O2	2.45	0.49
36:BA:996:A:O2'	36:BA:997:G:C5'	2.58	0.49
36:BA:1478:G:C2	36:BA:1479:G:C5	3.01	0.49
36:BA:1773:A:H62	36:BA:1829:A:H1'	1.77	0.49
36:BA:1781:C:O2	36:BA:1781:C:O4'	2.30	0.49
36:BA:1899:G:N2	36:BA:1903:G:C2	2.81	0.49
36:BA:2015:A:O2'	36:BA:2016:U:H5'	2.11	0.49
36:BA:2206:G:C2	36:BA:2207:G:H5'	2.47	0.49
36:BA:2314:C:H6	36:BA:2314:C:O5'	1.95	0.49
37:BB:42:C:H1'	42:BG:66:GLN:NE2	2.27	0.49
37:BB:56:G:O2'	37:BB:57:A:OP2	2.27	0.49
38:BC:117:PRO:HD3	38:BC:146:GLY:H	1.76	0.49
40:BE:199:ARG:HB2	40:BE:199:ARG:NH1	2.27	0.49
41:BF:34:TRP:CD1	48:BP:10:PRO:HB2	2.48	0.49
42:BG:117:PHE:O	42:BG:118:ARG:CG	2.51	0.49
42:BG:162:THR:O	42:BG:164:GLU:OE2	2.31	0.49
45:BK:100:UNK:C	45:BK:136:UNK:HA	2.42	0.49
47:BO:60:ALA:HB1	47:BO:85:VAL:O	2.13	0.49
48:BP:23:PRO:HG2	48:BP:33:ARG:HG3	1.94	0.49
50:BR:17:ARG:NH1	50:BR:17:ARG:HB3	2.27	0.49
52:BT:92:GLY:C	52:BT:94:ALA:N	2.62	0.49
53:BU:9:VAL:O	53:BU:12:ARG:HB2	2.12	0.49
58:BZ:28:MET:O	58:BZ:29:TYR:CB	2.59	0.49
1:CA:35:G:C6	1:CA:36:C:N4	2.80	0.49
1:CA:194:C:H2'	1:CA:195:A:C5'	2.38	0.49
1:CA:706:A:O2'	11:CK:31:THR:HB	2.12	0.49
1:CA:803:G:C6	1:CA:804:U:C4	3.00	0.49
1:CA:899:C:H2'	1:CA:900:A:O4'	2.11	0.49
1:CA:1126:U:OP2	1:CA:1281:U:O2	2.30	0.49
1:CA:1166:G:H1'	1:CA:1171:G:N2	2.26	0.49
1:CA:1379:G:H2'	1:CA:1380:U:H6	1.76	0.49
1:CA:1432:G:OP2	52:DT:108:ARG:CZ	2.60	0.49
2:CB:10:LEU:O	2:CB:13:ALA:HB3	2.12	0.49
2:CB:17:PHE:HB3	2:CB:44:LEU:CD2	2.42	0.49
3:CC:13:GLY:O	3:CC:14:ILE:CB	2.60	0.49
3:CC:29:TYR:OH	14:CN:54:PRO:HB2	2.11	0.49
10:CJ:40:LEU:HD23	10:CJ:40:LEU:H	1.75	0.49
10:CJ:43:ARG:HB2	10:CJ:67:THR:HG21	1.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:65:ALA:HB1	11:CK:98:LEU:HD21	1.94	0.49
13:CM:9:ILE:HD12	13:CM:9:ILE:N	2.27	0.49
17:CQ:90:ILE:O	17:CQ:91:ARG:C	2.50	0.49
22:CV:5:G:O2'	22:CV:6:G:H5'	2.12	0.49
22:CV:9:A:C4	22:CV:46:G:N2	2.80	0.49
25:CZ:121:LEU:O	25:CZ:125:GLN:HG2	2.12	0.49
25:CZ:129:PRO:O	25:CZ:130:TYR:HB2	2.12	0.49
27:D1:20:ARG:HB3	27:D1:34:THR:HA	1.93	0.49
29:D3:7:LYS:O	29:D3:54:VAL:CA	2.59	0.49
32:D6:15:GLU:OE2	32:D6:41:PRO:HB2	2.12	0.49
33:D7:37:LYS:HD2	36:DA:458:G:C8	2.47	0.49
36:DA:551:G:O2'	36:DA:1220:A:N3	2.39	0.49
36:DA:597:U:H5''	48:DP:15:ARG:NH2	2.27	0.49
36:DA:763:G:H2'	36:DA:764:A:O5'	2.12	0.49
36:DA:819:A:N6	36:DA:1189:A:H1'	2.27	0.49
36:DA:942:G:H5'	48:DP:35:HIS:C	2.33	0.49
36:DA:953:A:C2	36:DA:965:C:O2	2.64	0.49
36:DA:987:G:H2'	36:DA:988:A:O4'	2.12	0.49
36:DA:1215:G:O2'	36:DA:1216:G:H5'	2.12	0.49
36:DA:1429:G:H2'	36:DA:1430:C:C6	2.46	0.49
36:DA:1897:G:O5'	36:DA:1897:G:H8	1.96	0.49
36:DA:1907:G:C6	36:DA:1924:C:N3	2.80	0.49
36:DA:2010:G:C5	36:DA:2011:U:C5	3.00	0.49
36:DA:2192:G:H2'	36:DA:2193:G:H5'	1.94	0.49
36:DA:2222:G:H1'	39:DD:148:GLU:OE2	2.11	0.49
36:DA:2305:A:C1'	42:DG:135:LEU:O	2.59	0.49
36:DA:2590:A:C2'	36:DA:2591:C:H5'	2.42	0.49
36:DA:2635:C:H5''	40:DE:78:LEU:O	2.12	0.49
36:DA:2831:G:OP1	36:DA:2834:G:H4'	2.11	0.49
37:DB:77:U:O2	37:DB:77:U:H2'	2.12	0.49
38:DC:19:VAL:HA	38:DC:223:ARG:O	2.12	0.49
40:DE:12:THR:OG1	40:DE:13:ARG:N	2.44	0.49
40:DE:95:ILE:H	40:DE:95:ILE:CD1	2.25	0.49
40:DE:199:ARG:NH1	40:DE:199:ARG:CB	2.75	0.49
42:DG:29:TRP:C	42:DG:31:VAL:N	2.65	0.49
42:DG:72:ARG:HB3	42:DG:86:MET:HA	1.92	0.49
52:DT:106:SER:C	52:DT:107:ASP:OD1	2.51	0.49
53:DU:17:ILE:HG23	53:DU:39:LEU:HD12	1.95	0.49
58:DZ:24:LEU:O	58:DZ:24:LEU:CD2	2.60	0.49
58:DZ:50:GLN:O	58:DZ:51:ALA:C	2.50	0.49
1:AA:189:G:C6	1:AA:189(A):C:N4	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:722:A:O2'	1:AA:723:U:H3'	2.12	0.49
1:AA:876:G:H2'	1:AA:877:C:C6	2.48	0.49
1:AA:956:U:H2'	1:AA:957:U:O4'	2.12	0.49
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.77	0.49
1:AA:1088:G:H2'	1:AA:1089:G:C8	2.46	0.49
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.37	0.49
2:AB:8:LYS:HZ1	2:AB:217:ARG:NH1	2.09	0.49
2:AB:166:ASP:O	2:AB:167:PRO:C	2.50	0.49
5:AE:57:LYS:O	5:AE:58:ALA:C	2.50	0.49
6:AF:2:ARG:NE	6:AF:69:GLU:HG3	2.27	0.49
11:AK:64:ALA:O	11:AK:68:ALA:N	2.42	0.49
18:AR:50:ILE:HD11	18:AR:74:ARG:CZ	2.42	0.49
20:AT:33:ILE:CG2	20:AT:63:ILE:HG12	2.42	0.49
22:AW:53:G:C2	22:AW:54:U:N3	2.80	0.49
23:AX:19:U:H2'	23:AX:20:U:C6	2.48	0.49
25:AZ:12:VAL:HG13	25:AZ:100:ASP:OD2	2.11	0.49
25:AZ:223:MET:HB3	25:AZ:242:ILE:HA	1.93	0.49
26:B0:30:VAL:HA	26:B0:66:VAL:CA	2.40	0.49
27:B1:45:ASN:CA	36:BA:2230:G:H1'	2.42	0.49
28:B2:6:VAL:HG22	28:B2:9:GLN:OE1	2.12	0.49
34:B8:59:LYS:NZ	48:BP:50:ARG:HB3	2.27	0.49
36:BA:18:C:H2'	36:BA:19:C:H6	1.78	0.49
36:BA:25:U:H2'	36:BA:26:G:O4'	2.11	0.49
36:BA:571:A:H5'	36:BA:2030:A:N7	2.26	0.49
36:BA:769:G:C4'	36:BA:1379:A:N6	2.74	0.49
36:BA:1854:A:H62	36:BA:1888:G:H8	1.58	0.49
36:BA:2071:A:H2	36:BA:2441:C:N3	2.10	0.49
36:BA:2189:U:H3'	36:BA:2190:G:C5'	2.42	0.49
36:BA:2286:A:C2	36:BA:2346:A:N6	2.80	0.49
36:BA:2415:G:H4'	48:BP:66:GLY:O	2.12	0.49
36:BA:2558:C:H2'	36:BA:2559:C:C6	2.47	0.49
36:BA:2867:G:C5	52:BT:23:ARG:NH1	2.80	0.49
40:BE:53:PRO:O	40:BE:74:PRO:HA	2.12	0.49
41:BF:31:HIS:CE1	41:BF:34:TRP:CE3	3.00	0.49
41:BF:123:LEU:HD12	41:BF:124:LEU:N	2.27	0.49
42:BG:9:ARG:C	42:BG:11:TYR:N	2.65	0.49
42:BG:34:LEU:HD13	42:BG:99:MET:HE3	1.95	0.49
42:BG:52:ILE:HG12	42:BG:53:LEU:H	1.77	0.49
43:BH:42:ARG:NH1	43:BH:42:ARG:CB	2.75	0.49
45:BK:87:UNK:O	45:BK:88:UNK:CB	2.59	0.49
49:BQ:41:TRP:HB3	49:BQ:94:VAL:HG11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:103:ARG:HH11	50:BR:110:PRO:CD	2.24	0.49
51:BS:85:VAL:HG23	51:BS:86:ALA:N	2.27	0.49
52:BT:121:ILE:O	52:BT:124:ASP:N	2.42	0.49
52:BT:129:ARG:NH1	52:BT:131:ALA:HB3	2.26	0.49
53:BU:4:ALA:O	53:BU:5:LYS:O	2.29	0.49
53:BU:17:ILE:HG23	53:BU:39:LEU:HD12	1.94	0.49
55:BW:65:LEU:HB3	55:BW:68:ARG:HD2	1.95	0.49
58:BZ:20:ARG:HB2	58:BZ:20:ARG:CZ	2.41	0.49
58:BZ:153:SER:N	58:BZ:167:PRO:HB3	2.28	0.49
1:CA:189:G:H2'	1:CA:189(A):C:H6	1.75	0.49
1:CA:191:G:C4	20:CT:105:SER:HB3	2.47	0.49
1:CA:532:A:H3'	1:CA:533:A:C5'	2.41	0.49
1:CA:546:G:OP1	4:CD:73:ARG:HB2	2.13	0.49
1:CA:570:G:H1'	1:CA:820:U:C4	2.47	0.49
1:CA:833:U:H2'	1:CA:834:C:C6	2.48	0.49
1:CA:1129:C:H4'	1:CA:1130:A:C8	2.47	0.49
1:CA:1360:A:C2'	1:CA:1361:G:H5'	2.42	0.49
1:CA:1483:A:H2	36:DA:1960:A:H1'	1.78	0.49
1:CA:1508:G:C6	1:CA:1509:C:C4	3.01	0.49
2:CB:26:PRO:C	2:CB:28:PHE:H	2.15	0.49
3:CC:18:TRP:HE1	14:CN:55:GLY:H	1.61	0.49
4:CD:31:CYS:O	4:CD:32:ALA:HB3	2.11	0.49
4:CD:70:ILE:CG2	4:CD:74:GLN:HB2	2.41	0.49
4:CD:170:VAL:CG1	4:CD:171:GLY:N	2.75	0.49
4:CD:182:LYS:O	4:CD:183:GLY:O	2.31	0.49
7:CG:118:VAL:O	7:CG:121:ALA:HB3	2.12	0.49
8:CH:4:ASP:OD1	8:CH:7:ALA:N	2.44	0.49
8:CH:34:GLU:O	8:CH:35:ILE:C	2.49	0.49
8:CH:86:ILE:CG2	8:CH:133:LEU:HD23	2.35	0.49
10:CJ:18:ALA:O	10:CJ:22:LYS:N	2.45	0.49
10:CJ:80:LYS:HB3	10:CJ:80:LYS:HZ3	1.77	0.49
15:CO:11:VAL:O	15:CO:14:GLU:HB3	2.13	0.49
18:CR:24:ALA:O	18:CR:26:LEU:N	2.45	0.49
20:CT:19:SER:C	20:CT:21:LYS:N	2.62	0.49
25:CZ:99:MET:H	25:CZ:241:ARG:NH2	2.10	0.49
25:CZ:136:ASN:CG	25:CZ:137:LYS:N	2.66	0.49
25:CZ:267:VAL:CG2	25:CZ:288:VAL:HG13	2.42	0.49
28:D2:50:ILE:HD12	28:D2:50:ILE:H	1.78	0.49
36:DA:296:C:N4	36:DA:343:C:H42	2.10	0.49
36:DA:391:G:H2'	36:DA:392:C:H5'	1.94	0.49
36:DA:635:C:H1'	36:DA:639:U:H5''	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:723:G:H2'	36:DA:724:U:H6	1.73	0.49
36:DA:784:A:C8	36:DA:792:G:C5	3.00	0.49
36:DA:979:G:H21	36:DA:985:C:N4	2.10	0.49
36:DA:1274:A:N6	36:DA:1646:C:O2	2.43	0.49
36:DA:1328:G:H2'	36:DA:1330:C:C5	2.47	0.49
36:DA:1344:G:H22	36:DA:1404:C:H1'	1.77	0.49
36:DA:1722:A:O2'	36:DA:1739:U:H5''	2.12	0.49
36:DA:2111:C:H42	36:DA:2147:G:H1	1.61	0.49
36:DA:2186:G:C2	36:DA:2187:G:C6	3.00	0.49
36:DA:2317:C:O2'	36:DA:2318:G:H5'	2.11	0.49
36:DA:2577:A:C5'	36:DA:2578:G:H5'	2.42	0.49
36:DA:2776:A:H4'	36:DA:2778:A:H5''	1.93	0.49
36:DA:2811:G:H5'	40:DE:60:ASN:ND2	2.27	0.49
40:DE:55:ASN:ND2	40:DE:75:VAL:CG2	2.74	0.49
41:DF:42:ALA:O	41:DF:44:ARG:N	2.43	0.49
42:DG:161:THR:C	42:DG:163:ALA:H	2.16	0.49
43:DH:41:MET:O	43:DH:42:ARG:CB	2.60	0.49
43:DH:42:ARG:NH1	43:DH:42:ARG:CB	2.74	0.49
44:DJ:116:UNK:O	44:DJ:123:UNK:N	2.45	0.49
45:DK:99:UNK:O	45:DK:135:UNK:O	2.30	0.49
46:DN:18:ALA:HB1	46:DN:26:LEU:HD22	1.94	0.49
46:DN:103:VAL:O	46:DN:104:LYS:C	2.50	0.49
47:DO:64:ARG:CZ	52:DT:70:VAL:HG21	2.42	0.49
49:DQ:10:ARG:NH1	49:DQ:10:ARG:CB	2.75	0.49
50:DR:38:VAL:O	50:DR:41:ALA:HB3	2.12	0.49
51:DS:29:PHE:CE2	51:DS:31:SER:HB2	2.47	0.49
53:DU:42:ALA:O	53:DU:43:GLY:C	2.50	0.49
54:DV:70:ILE:HD12	54:DV:87:HIS:HD2	1.77	0.49
55:DW:68:ARG:O	55:DW:110:LYS:CB	2.60	0.49
56:DX:39:ILE:CG2	56:DX:54:VAL:HG11	2.41	0.49
57:DY:86:ARG:NH2	57:DY:95:LYS:NZ	2.60	0.49
58:DZ:40:ASP:OD1	58:DZ:41:LEU:N	2.45	0.49
58:DZ:163:LEU:HD11	58:DZ:165:VAL:HG23	1.94	0.49
1:AA:902:G:H2'	1:AA:903:G:C8	2.31	0.49
1:AA:1157:A:C4	1:AA:1181:G:N2	2.80	0.49
1:AA:1439:C:H5'	20:AT:38:LYS:NZ	2.27	0.49
1:AA:1520:G:O2'	1:AA:1521:G:H5'	2.11	0.49
2:AB:173:ALA:O	2:AB:174:VAL:C	2.50	0.49
2:AB:219:VAL:CA	2:AB:222:ILE:HG12	2.42	0.49
4:AD:74:GLN:O	4:AD:77:ASN:HB3	2.13	0.49
4:AD:108:LEU:HG	4:AD:108:LEU:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:186:LEU:O	4:AD:187:ARG:CB	2.61	0.49
5:AE:12:LEU:HD22	5:AE:12:LEU:C	2.32	0.49
7:AG:51:GLN:OE1	7:AG:51:GLN:HA	2.11	0.49
15:AO:81:LEU:CD1	15:AO:85:LEU:HD12	2.42	0.49
17:AQ:88:TYR:O	17:AQ:89:LEU:C	2.50	0.49
20:AT:32:ALA:O	20:AT:36:LEU:HB2	2.12	0.49
22:AW:17:C:H42	36:BA:2180:U:H3	1.59	0.49
22:AW:25:C:H2'	22:AW:26:A:H8	1.76	0.49
25:AZ:246:LYS:CB	25:AZ:281:ILE:HG22	2.33	0.49
25:AZ:255:ILE:HG12	25:AZ:304:LEU:CD2	2.42	0.49
31:B5:16:ARG:HH11	31:B5:16:ARG:HG2	1.77	0.49
31:B5:55:ARG:HD3	31:B5:56:LYS:H	1.76	0.49
31:B5:56:LYS:O	31:B5:57:VAL:C	2.50	0.49
32:B6:5:VAL:HG11	36:BA:2283:C:C4'	2.43	0.49
32:B6:19:ARG:NH1	36:BA:2400:G:O2'	2.43	0.49
34:B8:8:LYS:HE2	34:B8:11:LYS:HE2	1.93	0.49
36:BA:29:U:O2'	53:BU:8:VAL:HG23	2.13	0.49
36:BA:218:A:O2'	36:BA:219:G:H5'	2.12	0.49
36:BA:391:G:O2'	36:BA:392:C:H5'	2.12	0.49
36:BA:810:U:OP1	36:BA:1253:A:N7	2.45	0.49
36:BA:860:U:C4	36:BA:2268:A:C8	3.00	0.49
36:BA:976:C:H2'	36:BA:977:G:H8	1.77	0.49
36:BA:1429:G:H2'	36:BA:1430:C:H6	1.78	0.49
36:BA:1661:G:C6	36:BA:2000:G:C2	3.00	0.49
36:BA:2488:A:H2'	36:BA:2489:G:C8	2.48	0.49
36:BA:2639:A:H3'	36:BA:2640:G:C8	2.47	0.49
39:BD:218:ARG:HG3	39:BD:218:ARG:HH11	1.77	0.49
40:BE:102:VAL:HG12	40:BE:199:ARG:O	2.12	0.49
41:BF:118:ALA:HB1	41:BF:123:LEU:HD22	1.95	0.49
42:BG:34:LEU:HA	42:BG:161:THR:CB	2.42	0.49
42:BG:58:GLN:NE2	42:BG:62:LEU:HD11	2.27	0.49
43:BH:41:MET:O	43:BH:42:ARG:CB	2.60	0.49
56:BX:7:VAL:O	56:BX:30:VAL:HA	2.12	0.49
57:BY:8:LYS:HD2	57:BY:8:LYS:N	2.06	0.49
1:CA:51:A:H4'	1:CA:52:G:C5'	2.43	0.49
1:CA:66:G:H8	1:CA:66:G:O5'	1.96	0.49
1:CA:686:U:O2'	1:CA:687:A:O5'	2.31	0.49
1:CA:841:U:H3'	1:CA:848:C:O4'	2.13	0.49
1:CA:968:A:C4	1:CA:1062:U:H4'	2.47	0.49
1:CA:1497:G:O2'	1:CA:1498:U:H5'	2.11	0.49
2:CB:25:ASN:O	2:CB:27:LYS:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:94:LEU:O	3:CC:95:THR:OG1	2.21	0.49
6:CF:5:GLU:HA	6:CF:63:TYR:O	2.12	0.49
10:CJ:6:ILE:HG22	10:CJ:97:GLU:O	2.12	0.49
11:CK:77:MET:HG3	11:CK:78:GLN:N	2.26	0.49
14:CN:12:ARG:HB3	14:CN:14:PRO:HD2	1.93	0.49
17:CQ:29:HIS:CE1	17:CQ:31:LEU:N	2.81	0.49
20:CT:27:LYS:HD3	20:CT:27:LYS:O	2.12	0.49
25:CZ:89:ILE:O	25:CZ:92:MET:N	2.39	0.49
25:CZ:155:ARG:HA	25:CZ:158:LEU:HD12	1.94	0.49
25:CZ:355:LEU:C	25:CZ:359:VAL:HG21	2.31	0.49
27:D1:17:SER:CB	27:D1:38:SER:HB2	2.41	0.49
32:D6:15:GLU:CD	32:D6:18:ARG:NH2	2.65	0.49
34:D8:13:ARG:HB3	48:DP:63:PRO:HA	1.95	0.49
35:D9:25:VAL:HB	35:D9:34:GLN:HB3	1.94	0.49
36:DA:85:G:OP1	57:DY:9:LYS:HB2	2.12	0.49
36:DA:116:C:O2	36:DA:126:A:H2	1.94	0.49
36:DA:272(E):G:H2'	36:DA:272(F):C:H5'	1.93	0.49
36:DA:572:A:H61	36:DA:2029:G:N2	2.06	0.49
36:DA:654(B):C:H2'	36:DA:654(C):G:H8	1.76	0.49
36:DA:806:C:O2'	36:DA:2445:G:C4'	2.59	0.49
36:DA:1279:G:N2	36:DA:1292:U:C2	2.81	0.49
36:DA:1478:G:C2	36:DA:1479:G:C5	3.01	0.49
36:DA:1639:U:O2'	36:DA:1640:C:H5''	2.12	0.49
36:DA:1798:U:C5'	39:DD:259:THR:HB	2.42	0.49
36:DA:1814:G:H2'	36:DA:1815:A:N7	2.28	0.49
36:DA:1826:G:OP2	39:DD:222:ARG:HB3	2.12	0.49
36:DA:1970:A:H5''	36:DA:1971:A:OP1	2.12	0.49
36:DA:2052:G:O4'	40:DE:142:GLY:HA3	2.12	0.49
36:DA:2247:A:H2'	36:DA:2248:C:O4'	2.12	0.49
36:DA:2348:U:O2'	36:DA:2349:G:H5'	2.12	0.49
36:DA:2414:G:H21	48:DP:67:MET:HE1	1.77	0.49
36:DA:2524:G:H5'	36:DA:2524:G:H8	1.77	0.49
39:DD:69:ARG:NH2	39:DD:192:THR:CB	2.75	0.49
39:DD:270:ILE:HD12	39:DD:270:ILE:C	2.32	0.49
42:DG:154:GLY:O	42:DG:155:MET:CB	2.61	0.49
43:DH:20:ALA:HB1	43:DH:21:PRO:HD3	1.94	0.49
43:DH:59:ARG:HA	43:DH:62:LYS:HB2	1.94	0.49
46:DN:75:TYR:HB2	46:DN:82:LEU:HD13	1.94	0.49
51:DS:88:ASP:O	51:DS:89:ARG:HB3	2.12	0.49
51:DS:89:ARG:HG3	51:DS:92:TYR:N	2.27	0.49
53:DU:90:VAL:HG21	54:DV:47:VAL:CG2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:81:LYS:HG3	57:DY:97:ARG:HG3	1.95	0.49
57:DY:86:ARG:O	57:DY:92:ASN:HA	2.13	0.49
1:AA:564:C:C2	17:AQ:31:LEU:HD11	2.47	0.49
1:AA:607:A:C2	16:AP:31:LYS:HG3	2.48	0.49
1:AA:669:U:H2'	1:AA:670:G:C8	2.47	0.49
1:AA:677:U:H3	1:AA:713:G:H1	1.60	0.49
1:AA:841:U:H3'	1:AA:848:C:O4'	2.13	0.49
1:AA:945:G:O2'	1:AA:946:A:H5'	2.13	0.49
1:AA:967:C:H4'	9:AI:125:TYR:HE2	1.77	0.49
1:AA:1030:C:H2'	1:AA:1030(A):G:H5'	1.93	0.49
1:AA:1057:G:H2'	1:AA:1058:G:C8	2.48	0.49
1:AA:1092:A:O2'	1:AA:1093:A:H5'	2.12	0.49
1:AA:1104:G:H4'	2:AB:111:ARG:HH12	1.76	0.49
1:AA:1320:C:H5'	1:AA:1320:C:H6	1.77	0.49
1:AA:1387:G:C5	1:AA:1388:C:C5	3.01	0.49
2:AB:47:THR:HG22	2:AB:51:LEU:HD11	1.94	0.49
4:AD:99:SER:O	4:AD:140:VAL:HG23	2.12	0.49
8:AH:112:LEU:HD23	8:AH:112:LEU:N	2.27	0.49
9:AI:10:ARG:HD2	9:AI:75:ASP:OD1	2.13	0.49
10:AJ:17:ASP:CB	10:AJ:70:ARG:HH21	2.25	0.49
11:AK:89:ALA:C	11:AK:91:ARG:N	2.65	0.49
13:AM:15:VAL:O	13:AM:19:LEU:HD23	2.13	0.49
13:AM:102:ARG:HD3	13:AM:105:THR:OG1	2.12	0.49
19:AS:9:VAL:C	19:AS:11:VAL:H	2.16	0.49
20:AT:74:LYS:HD3	20:AT:74:LYS:H	1.77	0.49
25:AZ:72:THR:CG2	25:AZ:203:LEU:HD23	2.31	0.49
25:AZ:138:VAL:HG23	25:AZ:174:SER:N	2.27	0.49
25:AZ:281:ILE:O	25:AZ:284:ASP:OD2	2.30	0.49
28:B2:51:ARG:O	28:B2:54:LYS:HB3	2.13	0.49
32:B6:53:LYS:HD3	32:B6:54:ILE:N	2.20	0.49
34:B8:31:HIS:O	34:B8:32:LEU:C	2.51	0.49
36:BA:601:C:O2	36:BA:605:C:H4'	2.13	0.49
36:BA:753:C:H2'	36:BA:754:C:C6	2.47	0.49
36:BA:1425:G:H2'	36:BA:1426:G:O4'	2.13	0.49
36:BA:1487:G:N2	36:BA:1488:G:H1'	2.27	0.49
36:BA:1511:C:C5	36:BA:1512:U:H5	2.30	0.49
36:BA:1805:U:H5''	39:BD:250:TRP:CD2	2.47	0.49
36:BA:1833:U:O2'	36:BA:1969:A:N1	2.35	0.49
36:BA:2053:G:H2'	36:BA:2054:A:O4'	2.12	0.49
36:BA:2517:C:HO2'	36:BA:2519:U:H5	1.58	0.49
36:BA:2524:G:H5'	36:BA:2524:G:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2537:U:H2'	36:BA:2538:C:C6	2.48	0.49
36:BA:2579:C:C4'	40:BE:134:ILE:HG12	2.42	0.49
36:BA:2681:C:H2'	36:BA:2681:C:O2	2.11	0.49
36:BA:2690:C:C5'	36:BA:2872:G:H21	2.26	0.49
36:BA:2787:C:C2'	40:BE:61:ARG:HD3	2.42	0.49
38:BC:58:VAL:HG22	38:BC:201:PRO:HG2	1.94	0.49
38:BC:59:ARG:NE	38:BC:164:ARG:HD2	2.28	0.49
38:BC:78:ALA:HB1	38:BC:82:LYS:HB2	1.95	0.49
39:BD:142:VAL:CG2	39:BD:143:HIS:N	2.74	0.49
39:BD:252:TRP:CD1	39:BD:252:TRP:N	2.80	0.49
40:BE:195:LEU:HD11	40:BE:197:ILE:CG2	2.42	0.49
42:BG:44:GLY:C	42:BG:46:ALA:H	2.14	0.49
46:BN:137:LYS:O	46:BN:138:LEU:HG	2.12	0.49
49:BQ:33:GLY:O	49:BQ:131:ILE:HA	2.11	0.49
49:BQ:64:ILE:HG22	49:BQ:65:PHE:N	2.28	0.49
53:BU:40:PHE:HB3	54:BV:75:PHE:CE1	2.47	0.49
55:BW:70:TYR:CE1	55:BW:72:LYS:HA	2.47	0.49
58:BZ:69:THR:C	58:BZ:70:LEU:HD23	2.32	0.49
58:BZ:72:ARG:HG3	58:BZ:89:PHE:HB2	1.95	0.49
1:CA:55:A:H2'	25:CZ:232:THR:CG2	2.39	0.49
1:CA:544:G:C6	1:CA:545:C:N3	2.81	0.49
1:CA:823:G:N3	8:CH:1:MET:HE1	2.28	0.49
1:CA:927:G:H8	1:CA:927:G:C5'	2.25	0.49
1:CA:1469:G:N1	1:CA:1470:G:C6	2.80	0.49
1:CA:1510:U:O2	1:CA:1526:G:C2	2.66	0.49
3:CC:58:GLU:O	3:CC:59:ARG:HG3	2.12	0.49
3:CC:145:GLY:O	3:CC:146:ALA:O	2.30	0.49
4:CD:186:LEU:O	4:CD:187:ARG:CB	2.60	0.49
8:CH:101:PRO:HG2	8:CH:133:LEU:HD11	1.94	0.49
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	2.25	0.49
12:CL:69:TYR:CB	12:CL:90:VAL:HG21	2.42	0.49
18:CR:53:ARG:C	18:CR:55:ARG:N	2.66	0.49
19:CS:9:VAL:HG12	19:CS:39:THR:HB	1.93	0.49
22:CV:17:C:H3'	22:CV:18:G:H5''	1.95	0.49
24:CY:16:H2U:H52	24:CY:17:H2U:H52	1.95	0.49
33:D7:19:ARG:HB3	36:DA:125:G:H5''	1.93	0.49
34:D8:13:ARG:HB2	48:DP:62:LEU:O	2.13	0.49
34:D8:52:LYS:N	34:D8:53:PRO:CD	2.73	0.49
35:D9:36:GLN:HG2	36:DA:1124:C:O2'	2.12	0.49
36:DA:6:A:O2'	46:DN:130:HIS:CB	2.57	0.49
36:DA:268:C:N4	36:DA:425:G:C6	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:280:C:N4	36:DA:360:G:H1	2.10	0.49
36:DA:449:A:H4'	53:DU:3:ARG:HH21	1.76	0.49
36:DA:615:G:H2'	36:DA:616:G:H8	1.77	0.49
36:DA:701:G:H2'	36:DA:701:G:N3	2.27	0.49
36:DA:1183:G:H2'	36:DA:1184:G:C8	2.44	0.49
36:DA:1203:G:C6	36:DA:1204:A:N6	2.81	0.49
36:DA:1245:G:C5'	41:DF:34:TRP:HZ2	2.26	0.49
36:DA:1275:A:N7	50:DR:16:HIS:HB2	2.27	0.49
36:DA:1314:C:H5'	36:DA:1314:C:C6	2.33	0.49
36:DA:1672:C:N3	36:DA:1673:U:C5	2.81	0.49
36:DA:1720:U:H2'	36:DA:1721:G:C4'	2.42	0.49
36:DA:2390:U:O2'	36:DA:2391:G:H5'	2.12	0.49
36:DA:2491:U:H5'	36:DA:2570:G:H5''	1.94	0.49
36:DA:2582:G:N2	36:DA:2583:G:C1'	2.75	0.49
40:DE:96:PHE:CD2	40:DE:182:LEU:HD21	2.47	0.49
43:DH:148:ILE:HG22	43:DH:162:ILE:HD13	1.94	0.49
48:DP:101:VAL:C	48:DP:103:ALA:N	2.66	0.49
51:DS:12:PHE:O	51:DS:14:VAL:N	2.46	0.49
51:DS:54:LEU:C	51:DS:56:LEU:H	2.15	0.49
53:DU:86:ALA:O	53:DU:88:ILE:N	2.45	0.49
53:DU:102:GLU:HB3	53:DU:105:VAL:HB	1.94	0.49
55:DW:73:ALA:HB3	55:DW:106:ILE:HD11	1.94	0.49
56:DX:26:TYR:O	56:DX:80:ILE:HA	2.13	0.49
57:DY:15:VAL:HB	57:DY:20:TYR:O	2.13	0.49
58:DZ:108:PRO:HA	58:DZ:141:VAL:CG1	2.42	0.49
1:AA:431:A:O2'	1:AA:432:A:H5'	2.13	0.49
1:AA:564:C:C4	17:AQ:31:LEU:HD11	2.47	0.49
1:AA:792:A:O2'	1:AA:794:A:N7	2.37	0.49
1:AA:1054:C:P	1:AA:1198:G:OP2	2.70	0.49
1:AA:1338:G:C6	1:AA:1339:A:C6	3.01	0.49
1:AA:1526:G:H2'	1:AA:1527:C:H6	1.77	0.49
3:AC:72:LYS:C	3:AC:74:GLY:H	2.16	0.49
12:AL:69:TYR:CB	12:AL:90:VAL:HG21	2.42	0.49
13:AM:22:ILE:HD12	13:AM:22:ILE:N	2.27	0.49
15:AO:10:LYS:HA	15:AO:13:GLN:OE1	2.13	0.49
16:AP:20:VAL:HA	16:AP:36:ILE:HG13	1.94	0.49
17:AQ:64:PRO:HG3	17:AQ:70:ARG:HG2	1.94	0.49
20:AT:88:VAL:O	20:AT:91:LEU:HB2	2.12	0.49
25:AZ:14:VAL:O	25:AZ:79:HIS:HA	2.11	0.49
25:AZ:124:ARG:HG2	63:AZ:502:KIR:H191	1.95	0.49
27:B1:18:ILE:HG22	27:B1:19:GLN:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:73:LEU:O	27:B1:77:ALA:HB2	2.13	0.49
28:B2:10:LEU:HD13	36:BA:78:A:OP1	2.13	0.49
32:B6:15:GLU:OE2	32:B6:41:PRO:HB2	2.11	0.49
36:BA:185:U:N3	36:BA:212:G:N2	2.61	0.49
36:BA:252:G:H2'	36:BA:253:C:H6	1.75	0.49
36:BA:864:G:N2	36:BA:913:U:C2	2.80	0.49
36:BA:1484:G:H3'	36:BA:1485:G:H5''	1.93	0.49
36:BA:1636:C:O2	36:BA:1760:A:H2	1.95	0.49
36:BA:1683:C:H2'	36:BA:1684:C:C6	2.48	0.49
36:BA:1827:C:O2'	36:BA:1828:G:H5'	2.12	0.49
36:BA:1892:C:H2'	36:BA:1893:C:H6	1.76	0.49
36:BA:1911:U:H2'	36:BA:1912:A:H5'	1.95	0.49
36:BA:2083:G:C5	36:BA:2084:C:C4	3.01	0.49
36:BA:2133:G:O2'	36:BA:2134:A:H8	1.94	0.49
36:BA:2259:G:N1	36:BA:2282:G:C6	2.80	0.49
36:BA:2475:C:N4	36:BA:2529:G:H22	2.09	0.49
36:BA:2580:U:H3'	36:BA:2581:G:N2	2.27	0.49
36:BA:2885:C:C2	36:BA:2886:G:H1'	2.48	0.49
37:BB:81:G:C6	37:BB:97:G:C2	3.01	0.49
37:BB:105:A:H3'	37:BB:106:G:H8	1.77	0.49
38:BC:104:LEU:O	38:BC:105:ASP:CB	2.60	0.49
38:BC:181:PRO:HB2	38:BC:183:GLU:OE2	2.12	0.49
43:BH:90:LYS:HB3	43:BH:159:GLU:OE2	2.13	0.49
45:BK:14:UNK:CB	45:BK:50:UNK:HA	2.41	0.49
48:BP:97:PRO:O	48:BP:99:LEU:N	2.43	0.49
53:BU:9:VAL:C	53:BU:13:LYS:HE2	2.33	0.49
54:BV:47:VAL:O	54:BV:47:VAL:HG23	2.12	0.49
56:BX:54:VAL:O	56:BX:55:ASN:ND2	2.39	0.49
57:BY:27:VAL:HG12	57:BY:29:GLU:OE1	2.13	0.49
58:BZ:128:VAL:CG2	58:BZ:129:SER:N	2.75	0.49
1:CA:254:G:H2'	1:CA:255:G:C8	2.47	0.49
1:CA:417:C:O5'	1:CA:417:C:H6	1.96	0.49
1:CA:445:G:C6	1:CA:490:G:N1	2.80	0.49
1:CA:663:A:H61	1:CA:742:G:H1	1.59	0.49
1:CA:1006:C:H2'	1:CA:1007:C:C5	2.47	0.49
1:CA:1031:G:H2'	1:CA:1032:G:C8	2.48	0.49
1:CA:1109:C:H2'	1:CA:1110:A:H5'	1.94	0.49
1:CA:1360:A:O2'	1:CA:1361:G:H5'	2.12	0.49
1:CA:1419:G:O6	1:CA:1482:G:C4	2.66	0.49
2:CB:92:TYR:CE1	2:CB:151:GLY:N	2.81	0.49
2:CB:166:ASP:HB2	2:CB:205:ASP:OD2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:70:VAL:CG1	3:CC:71:ALA:H	2.23	0.49
3:CC:96:GLY:C	3:CC:97:LYS:HG2	2.32	0.49
5:CE:102:ALA:HA	5:CE:120:THR:CG2	2.43	0.49
8:CH:103:VAL:HG12	8:CH:108:GLY:HA3	1.94	0.49
11:CK:54:ARG:O	11:CK:57:THR:HG22	2.12	0.49
15:CO:17:ARG:HG3	15:CO:17:ARG:NH1	2.27	0.49
16:CP:19:ILE:HG22	16:CP:36:ILE:HG13	1.95	0.49
24:CY:57:G:H3'	24:CY:57:G:OP2	2.13	0.49
25:CZ:171:ILE:HG22	25:CZ:172:ARG:N	2.26	0.49
25:CZ:223:MET:HB3	25:CZ:242:ILE:HA	1.94	0.49
31:D5:55:ARG:HD3	31:D5:56:LYS:H	1.78	0.49
36:DA:973:A:O4'	36:DA:1188:U:C6	2.65	0.49
36:DA:1346:G:H2'	36:DA:1347:G:H8	1.77	0.49
36:DA:1713:U:O2'	36:DA:1714:G:H5'	2.13	0.49
36:DA:1861:G:O2'	36:DA:1862:G:H5'	2.12	0.49
36:DA:2120:G:N2	36:DA:2178:C:C2	2.81	0.49
36:DA:2149:G:C2'	36:DA:2150:U:H5'	2.43	0.49
36:DA:2197:U:O4	36:DA:2224:G:H2'	2.13	0.49
36:DA:2346:A:H5'	36:DA:2383:G:O4'	2.12	0.49
36:DA:2460:U:O2'	36:DA:2461:C:H5'	2.12	0.49
36:DA:2485:G:O2'	49:DQ:126:PRO:HA	2.12	0.49
36:DA:2839:G:H2'	36:DA:2840:C:C6	2.47	0.49
38:DC:161:ILE:C	38:DC:161:ILE:CD1	2.81	0.49
39:DD:44:ASN:CB	39:DD:48:ARG:O	2.60	0.49
39:DD:63:ARG:CG	39:DD:63:ARG:NH1	2.69	0.49
39:DD:92:ILE:HD13	39:DD:92:ILE:H	1.77	0.49
42:DG:83:ARG:HG3	42:DG:83:ARG:HH11	1.78	0.49
42:DG:145:THR:CG2	42:DG:147:ASP:OD1	2.61	0.49
47:DO:103:ALA:O	47:DO:106:LEU:HG	2.13	0.49
48:DP:100:LEU:CB	48:DP:106:LEU:HD13	2.41	0.49
50:DR:3:HIS:O	50:DR:5:LYS:N	2.46	0.49
57:DY:101:LYS:HG2	57:DY:102:CYS:N	2.28	0.49
58:DZ:17:ALA:HA	58:DZ:20:ARG:CD	2.39	0.49
58:DZ:29:TYR:N	58:DZ:88:PHE:O	2.46	0.49
1:AA:341:C:O2'	1:AA:342:C:H5'	2.12	0.49
1:AA:526:C:H2'	1:AA:527:G:C4'	2.43	0.49
1:AA:786:G:C2	1:AA:787:A:H1'	2.48	0.49
1:AA:929:G:O2'	1:AA:930:C:H5'	2.12	0.49
1:AA:1320:C:H5'	1:AA:1320:C:C6	2.48	0.49
2:AB:170:GLU:C	2:AB:172:ILE:HD12	2.33	0.49
4:AD:31:CYS:HG	60:AD:301:ZN:ZN	1.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:59:ARG:HE	4:AD:59:ARG:HA	1.78	0.49
4:AD:61:LYS:NZ	4:AD:72:GLU:OE2	2.45	0.49
4:AD:119:GLN:HG3	4:AD:123:HIS:NE2	2.28	0.49
5:AE:10:MET:HG3	5:AE:13:ILE:HD11	1.95	0.49
5:AE:103:GLY:H	5:AE:106:PRO:HG3	1.77	0.49
7:AG:145:ALA:HA	7:AG:148:ASN:HD22	1.78	0.49
8:AH:6:ILE:HD12	8:AH:6:ILE:H	1.76	0.49
8:AH:17:THR:HB	8:AH:78:GLN:HE22	1.78	0.49
8:AH:38:ILE:O	8:AH:42:GLU:HG2	2.12	0.49
10:AJ:3:LYS:N	10:AJ:74:ILE:O	2.46	0.49
10:AJ:37:PRO:HA	10:AJ:72:VAL:HG22	1.94	0.49
10:AJ:63:PHE:CD2	10:AJ:63:PHE:N	2.81	0.49
11:AK:48:ILE:HG22	11:AK:49:GLY:N	2.27	0.49
12:AL:10:LEU:HB3	17:AQ:32:TYR:CE1	2.47	0.49
12:AL:41:ARG:HD2	12:AL:42:THR:O	2.12	0.49
17:AQ:37:LYS:O	17:AQ:38:ARG:HB2	2.12	0.49
19:AS:63:THR:HG22	19:AS:66:MET:SD	2.53	0.49
20:AT:26:ASN:ND2	20:AT:26:ASN:H	2.10	0.49
20:AT:37:SER:O	20:AT:41:ILE:HG12	2.12	0.49
20:AT:38:LYS:C	20:AT:40:ALA:H	2.16	0.49
22:AV:53:G:H2'	22:AV:54:U:C6	2.47	0.49
22:AW:16:U:H3'	22:AW:17:C:H5'	1.94	0.49
25:AZ:255:ILE:HG22	25:AZ:302:GLN:NE2	2.27	0.49
25:AZ:313:HIS:HB3	25:AZ:403:ILE:CG2	2.42	0.49
29:B3:35:ARG:HB2	29:B3:35:ARG:NH1	2.21	0.49
32:B6:6:ARG:C	32:B6:8:LYS:H	2.16	0.49
32:B6:19:ARG:NH2	36:BA:2401:U:OP1	2.46	0.49
36:BA:325:G:O2'	36:BA:326:G:H5'	2.13	0.49
36:BA:329:G:H22	57:BY:19:LYS:CE	2.18	0.49
36:BA:344:G:H3'	36:BA:344:G:P	2.52	0.49
36:BA:389:G:C6	48:BP:70:GLN:HG3	2.48	0.49
36:BA:444:C:H2'	36:BA:445:C:O5'	2.13	0.49
36:BA:695:G:C5	36:BA:768:G:C6	3.01	0.49
36:BA:942:G:H5'	48:BP:35:HIS:C	2.31	0.49
36:BA:1221:C:C2'	36:BA:1221(A):C:H6	2.26	0.49
36:BA:1376:C:H2'	36:BA:1377:G:H5'	1.95	0.49
36:BA:1386:C:H2'	36:BA:1387:C:H6	1.77	0.49
36:BA:1655:A:C2	36:BA:2049:G:H4'	2.48	0.49
36:BA:1794:U:O4'	36:BA:1900:A:C2	2.66	0.49
36:BA:2222:G:H1'	39:BD:148:GLU:OE2	2.13	0.49
36:BA:2475:C:H5'	36:BA:2476:A:OP2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:77:ILE:CG2	40:BE:78:LEU:H	2.03	0.49
40:BE:123:ALA:O	40:BE:125:GLY:N	2.44	0.49
41:BF:3:GLU:O	41:BF:19:GLU:CB	2.59	0.49
42:BG:47:LYS:NZ	42:BG:81:LYS:CB	2.76	0.49
43:BH:34:GLU:O	43:BH:36:PRO:HD3	2.11	0.49
47:BO:12:ASP:C	47:BO:14:THR:H	2.16	0.49
49:BQ:61:GLY:O	58:BZ:177:PRO:HB3	2.12	0.49
57:BY:29:GLU:CD	57:BY:38:ILE:HG21	2.33	0.49
58:BZ:10:ARG:HG2	58:BZ:11:GLU:N	2.28	0.49
58:BZ:123:ASP:O	58:BZ:124:ILE:HG23	2.12	0.49
58:BZ:127:LYS:HZ3	58:BZ:164:ALA:HB2	1.76	0.49
1:CA:187:C:O2	20:CT:104:LEU:HD23	2.12	0.49
1:CA:758:G:H8	1:CA:758:G:O5'	1.95	0.49
1:CA:963:G:H21	10:CJ:55:LYS:CD	2.25	0.49
1:CA:1006:C:N4	1:CA:1024:G:H21	2.09	0.49
1:CA:1048:G:OP1	14:CN:4:LYS:HB2	2.13	0.49
1:CA:1119:C:H2'	1:CA:1120:G:H8	1.72	0.49
1:CA:1325:C:H5'	21:CU:15:ARG:NE	2.27	0.49
4:CD:20:TYR:CA	4:CD:26:CYS:HB3	2.42	0.49
4:CD:108:LEU:HG	4:CD:108:LEU:O	2.13	0.49
4:CD:119:GLN:NE2	4:CD:123:HIS:NE2	2.58	0.49
4:CD:171:GLY:O	4:CD:173:TRP:N	2.38	0.49
8:CH:40:ALA:HB2	8:CH:45:ILE:HG13	1.93	0.49
9:CI:56:LEU:O	9:CI:56:LEU:HD23	2.13	0.49
11:CK:23:ALA:HB3	11:CK:91:ARG:HG2	1.95	0.49
11:CK:64:ALA:O	11:CK:68:ALA:N	2.44	0.49
12:CL:83:VAL:CG1	12:CL:84:LEU:N	2.75	0.49
13:CM:19:LEU:H	13:CM:19:LEU:HD22	1.77	0.49
14:CN:24:CYS:N	14:CN:29:ARG:O	2.46	0.49
17:CQ:5:VAL:HG22	17:CQ:60:ILE:HA	1.94	0.49
18:CR:37:VAL:CG2	18:CR:38:GLU:N	2.76	0.49
22:CV:75:C:OP1	36:DA:2602:A:OP1	2.30	0.49
25:CZ:19:HIS:HB2	25:CZ:116:THR:OG1	2.13	0.49
25:CZ:234:ARG:HE	25:CZ:289:LEU:HD22	1.77	0.49
25:CZ:324:LYS:HA	25:CZ:365:GLY:N	2.27	0.49
28:D2:4:SER:O	28:D2:7:ARG:CD	2.61	0.49
32:D6:6:ARG:HB3	32:D6:6:ARG:CZ	2.43	0.49
33:D7:19:ARG:NH2	36:DA:124:G:C8	2.80	0.49
36:DA:67:U:H2'	36:DA:68:G:H8	1.78	0.49
36:DA:109:G:H2'	36:DA:110:G:H8	1.78	0.49
36:DA:146:G:H2'	36:DA:147:U:H5'	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:237:C:H2'	36:DA:238:C:H6	1.78	0.49
36:DA:247:G:H1'	36:DA:251:A:H62	1.78	0.49
36:DA:445:C:C2'	36:DA:446:G:O4'	2.61	0.49
36:DA:575:A:HO2'	36:DA:576:U:H5'	1.77	0.49
36:DA:986:C:O2'	36:DA:987:G:H5'	2.13	0.49
36:DA:1069:A:H1'	36:DA:1070:A:OP2	2.12	0.49
36:DA:1265:A:H8	36:DA:1265:A:OP1	1.95	0.49
36:DA:1636:C:O2	36:DA:1760:A:H2	1.96	0.49
36:DA:1856:G:O2'	36:DA:1857:G:H5'	2.12	0.49
36:DA:1884:A:H2'	36:DA:1885:A:O4'	2.13	0.49
36:DA:1988:C:C2'	36:DA:1989:G:H5'	2.42	0.49
36:DA:2117:A:H61	36:DA:2171:A:H61	1.60	0.49
36:DA:2246:G:H2'	36:DA:2247:A:H8	1.71	0.49
36:DA:2306:C:N4	36:DA:2311:A:C8	2.81	0.49
37:DB:105:A:H2'	37:DB:106:G:O4'	2.13	0.49
38:DC:28:LEU:HD23	38:DC:28:LEU:C	2.33	0.49
38:DC:120:MET:O	38:DC:121:GLY:C	2.51	0.49
39:DD:249:PRO:HG2	39:DD:250:TRP:N	2.27	0.49
39:DD:273:ARG:HH11	39:DD:273:ARG:CG	2.25	0.49
40:DE:167:VAL:O	40:DE:168:MET:O	2.30	0.49
41:DF:111:ALA:HA	41:DF:114:VAL:HB	1.93	0.49
41:DF:192:LEU:HD23	41:DF:192:LEU:C	2.33	0.49
42:DG:18:GLU:OE2	42:DG:21:ARG:CZ	2.60	0.49
43:DH:30:LYS:HE2	43:DH:30:LYS:CA	2.43	0.49
43:DH:65:HIS:CE1	43:DH:69:ARG:CZ	2.96	0.49
48:DP:61:ARG:C	48:DP:62:LEU:HD23	2.33	0.49
49:DQ:67:ARG:HB3	49:DQ:67:ARG:NH1	2.27	0.49
49:DQ:141:GLN:H	58:DZ:53:ILE:HD12	1.77	0.49
50:DR:2:ARG:HD2	50:DR:2:ARG:C	2.32	0.49
50:DR:36:THR:HB	50:DR:40:LYS:HD2	1.95	0.49
52:DT:8:LYS:HA	52:DT:11:GLU:OE1	2.12	0.49
53:DU:80:ILE:O	53:DU:80:ILE:HG22	2.12	0.49
58:DZ:108:PRO:HG2	58:DZ:111:VAL:CG2	2.42	0.49
1:AA:136:C:H2'	1:AA:137:C:C6	2.48	0.49
1:AA:189(J):G:O2'	1:AA:189(K):U:H5'	2.12	0.49
1:AA:368:U:P	25:AZ:291:ARG:HH11	2.36	0.49
1:AA:594:G:C2'	1:AA:595:G:H5'	2.42	0.49
1:AA:769:G:N1	1:AA:811:C:O2	2.45	0.49
1:AA:792:A:O2'	1:AA:793:U:OP2	2.31	0.49
1:AA:1003:G:O2'	1:AA:1004:A:H4'	2.11	0.49
3:AC:94:LEU:O	3:AC:94:LEU:CD1	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:72:GLU:O	4:AD:73:ARG:C	2.51	0.49
5:AE:12:LEU:HD12	5:AE:31:LEU:HB3	1.95	0.49
6:AF:48:LEU:HD12	6:AF:57:GLN:N	2.28	0.49
7:AG:102:ARG:CG	7:AG:106:GLN:HE21	2.24	0.49
8:AH:17:THR:HB	8:AH:78:GLN:NE2	2.27	0.49
8:AH:123:GLU:O	8:AH:127:LEU:HB2	2.12	0.49
9:AI:80:GLY:C	9:AI:82:ALA:H	2.16	0.49
11:AK:77:MET:HG3	11:AK:78:GLN:N	2.28	0.49
13:AM:66:LEU:O	13:AM:67:GLU:O	2.30	0.49
13:AM:81:LEU:HB3	13:AM:89:GLY:HA2	1.94	0.49
14:AN:47:LEU:HB3	14:AN:53:LEU:HG	1.95	0.49
16:AP:44:THR:O	16:AP:45:THR:HB	2.13	0.49
16:AP:82:GLN:O	16:AP:83:GLU:HB2	2.12	0.49
17:AQ:56:VAL:HG23	17:AQ:81:ARG:HG3	1.92	0.49
22:AV:17:C:H3'	22:AV:18:G:H5''	1.94	0.49
30:B4:5:ILE:O	30:B4:5:ILE:CG1	2.59	0.49
34:B8:13:ARG:CB	48:BP:63:PRO:HA	2.43	0.49
34:B8:41:ILE:HG23	34:B8:42:ARG:H	1.77	0.49
36:BA:53:A:H62	36:BA:117:G:H21	1.59	0.49
36:BA:245:G:H22	36:BA:254:G:H1'	1.77	0.49
36:BA:345:A:N3	36:BA:347:A:N6	2.61	0.49
36:BA:598:G:H5'	48:BP:15:ARG:CB	2.42	0.49
36:BA:1275:A:C4	50:BR:16:HIS:ND1	2.81	0.49
36:BA:1710:C:H6	36:BA:1710:C:O5'	1.95	0.49
36:BA:1884:A:H2'	36:BA:1885:A:O4'	2.12	0.49
36:BA:1992:G:C4	36:BA:1997:G:O6	2.66	0.49
36:BA:2048:G:H5'	36:BA:2823:A:C2	2.48	0.49
36:BA:2228:G:C5	36:BA:2229:C:C4	3.01	0.49
36:BA:2377:A:O2'	36:BA:2378:A:H5'	2.13	0.49
36:BA:2402:C:O2'	36:BA:2403:C:H5'	2.12	0.49
36:BA:2507:C:H2'	36:BA:2508:G:O4'	2.13	0.49
38:BC:75:LEU:HD11	38:BC:113:VAL:HG13	1.95	0.49
39:BD:248:SER:HB2	39:BD:249:PRO:CD	2.42	0.49
39:BD:275:LYS:O	39:BD:276:LYS:HB2	2.12	0.49
40:BE:3:GLY:O	40:BE:4:ILE:CB	2.61	0.49
40:BE:35:GLN:C	40:BE:36:ARG:HD2	2.33	0.49
40:BE:77:ILE:CG2	40:BE:78:LEU:N	2.70	0.49
42:BG:15:VAL:HG12	42:BG:19:LEU:HD12	1.95	0.49
43:BH:105:LEU:H	43:BH:105:LEU:CD2	2.25	0.49
45:BK:58:UNK:O	45:BK:65:UNK:HA	2.13	0.49
47:BO:53:LYS:HD2	47:BO:53:LYS:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:51:ARG:CG	49:BQ:52:VAL:N	2.75	0.49
49:BQ:62:GLY:O	58:BZ:177:PRO:HA	2.13	0.49
51:BS:68:GLN:C	51:BS:70:GLY:N	2.66	0.49
51:BS:89:ARG:CG	51:BS:92:TYR:HA	2.42	0.49
53:BU:57:PHE:C	53:BU:59:ARG:N	2.66	0.49
53:BU:90:VAL:HG21	54:BV:47:VAL:CG2	2.43	0.49
57:BY:2:ARG:O	57:BY:4:LYS:N	2.45	0.49
1:CA:58:C:O2'	1:CA:388:G:N7	2.42	0.49
1:CA:192:U:C1'	20:CT:103:GLY:HA2	2.41	0.49
1:CA:229:U:O2'	16:CP:23:ASP:HB2	2.13	0.49
1:CA:236:G:C6	1:CA:237:C:C4	3.01	0.49
1:CA:1142:G:H2'	1:CA:1143:G:C5'	2.39	0.49
1:CA:1269:A:C2'	1:CA:1270:C:H5'	2.42	0.49
1:CA:1516:G:C6	1:CA:1520:G:N1	2.81	0.49
3:CC:140:ARG:HG3	3:CC:140:ARG:HH11	1.77	0.49
5:CE:67:VAL:HG22	5:CE:68:GLU:N	2.28	0.49
5:CE:82:VAL:O	5:CE:82:VAL:HG12	2.11	0.49
7:CG:113:GLU:CG	7:CG:119:ARG:HG2	2.43	0.49
9:CI:28:VAL:O	9:CI:29:ASN:C	2.51	0.49
10:CJ:92:THR:CG2	10:CJ:93:GLY:H	2.23	0.49
11:CK:127:LYS:C	11:CK:129:SER:H	2.16	0.49
12:CL:41:ARG:CD	12:CL:42:THR:H	2.26	0.49
12:CL:41:ARG:HD2	12:CL:42:THR:O	2.12	0.49
20:CT:100:ILE:O	20:CT:102:GLY:N	2.37	0.49
25:CZ:32:THR:OG1	25:CZ:33:TYR:N	2.46	0.49
26:D0:10:THR:HG22	26:D0:12:ASN:N	2.27	0.49
26:D0:20:ARG:H	26:D0:20:ARG:CD	2.20	0.49
26:D0:26:TYR:HB2	26:D0:29:GLN:OE1	2.10	0.49
27:D1:50:ARG:HD2	36:DA:2200:C:OP1	2.13	0.49
28:D2:2:LYS:NZ	28:D2:59:ARG:HH22	2.11	0.49
28:D2:58:ALA:O	28:D2:59:ARG:C	2.51	0.49
35:D9:30:PRO:C	35:D9:32:HIS:N	2.66	0.49
36:DA:372:G:HO2'	36:DA:373:U:P	2.36	0.49
36:DA:521:G:H2'	36:DA:522:G:C8	2.48	0.49
36:DA:568:U:O2'	36:DA:569:U:C5	2.65	0.49
36:DA:708:C:H42	36:DA:723:G:H1	1.60	0.49
36:DA:773:U:H5'	39:DD:47:GLY:HA2	1.93	0.49
36:DA:968:G:C6	36:DA:969:U:C4	3.01	0.49
36:DA:1168:G:O2'	36:DA:1169:G:H5'	2.12	0.49
36:DA:1423:G:H2'	36:DA:1424:G:H8	1.74	0.49
36:DA:1890:A:H2	36:DA:2235:G:O4'	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2298:A:H2'	36:DA:2299:G:O4'	2.13	0.49
36:DA:2422:A:C8	36:DA:2422:A:C3'	2.96	0.49
36:DA:2497:A:H8	36:DA:2497:A:OP2	1.95	0.49
36:DA:2532:G:H2'	36:DA:2533:A:C8	2.47	0.49
37:DB:42:C:H4'	42:DG:67:LYS:HG2	1.95	0.49
39:DD:80:ALA:HB3	39:DD:94:LEU:O	2.12	0.49
39:DD:92:ILE:HG13	39:DD:104:TYR:CD2	2.47	0.49
39:DD:145:VAL:HG12	39:DD:146:GLU:O	2.12	0.49
41:DF:31:HIS:CE1	41:DF:34:TRP:CE3	3.01	0.49
41:DF:65:TRP:HB3	41:DF:66:PRO:CD	2.43	0.49
42:DG:41:GLN:HB3	42:DG:43:LEU:HD23	1.91	0.49
43:DH:105:LEU:HG	43:DH:105:LEU:O	2.13	0.49
46:DN:14:VAL:CG1	46:DN:137:LYS:HG3	2.42	0.49
50:DR:28:LEU:CA	50:DR:34:ILE:HG13	2.43	0.49
51:DS:36:TYR:O	51:DS:37:ALA:HB2	2.12	0.49
54:DV:19:LYS:HZ3	54:DV:20:LEU:N	2.09	0.49
57:DY:37:VAL:CG2	57:DY:38:ILE:H	2.07	0.49
57:DY:74:PRO:O	57:DY:75:ILE:HB	2.12	0.49
58:DZ:33:LEU:HD11	58:DZ:35:ARG:CG	2.43	0.49
58:DZ:153:SER:HB2	58:DZ:167:PRO:HB3	1.93	0.49
1:AA:110:C:C2'	1:AA:111:G:H5'	2.43	0.49
1:AA:260:G:O2'	1:AA:261:U:H5'	2.12	0.49
1:AA:532:A:HO2'	1:AA:533:A:P	2.36	0.49
1:AA:585:G:C4'	12:AL:8:ASN:HD21	2.15	0.49
1:AA:682:G:C6	1:AA:683:G:N7	2.80	0.49
1:AA:778:G:H2'	1:AA:779:C:H6	1.78	0.49
1:AA:1069:C:H2'	1:AA:1070:U:O5'	2.12	0.49
1:AA:1508:G:H8	1:AA:1508:G:O5'	1.96	0.49
2:AB:60:ASP:CB	2:AB:64:ARG:HH21	2.25	0.49
5:AE:76:ILE:CG1	5:AE:77:PRO:HD2	2.41	0.49
6:AF:14:LEU:HD13	6:AF:15:ASP:N	2.28	0.49
6:AF:101:ALA:OXT	18:AR:28:GLU:HG2	2.13	0.49
7:AG:145:ALA:O	7:AG:146:GLU:C	2.51	0.49
13:AM:10:PRO:CG	13:AM:18:ALA:HB1	2.41	0.49
13:AM:32:GLU:O	13:AM:34:LEU:N	2.46	0.49
25:AZ:317:GLU:HG3	25:AZ:404:LEU:CD2	2.40	0.49
28:B2:51:ARG:HG3	28:B2:52:ASP:N	2.28	0.49
36:BA:185:U:H2'	36:BA:186:G:C8	2.48	0.49
36:BA:479:A:H4'	36:BA:480:A:H5'	1.95	0.49
36:BA:589:C:H2'	36:BA:590:A:C8	2.48	0.49
36:BA:648:G:H2'	36:BA:649:G:C8	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1247:A:OP1	41:BF:95:ARG:NH2	2.46	0.49
36:BA:1322:A:H2'	36:BA:1323:U:C6	2.47	0.49
36:BA:1423:G:H2'	36:BA:1424:G:H8	1.76	0.49
36:BA:1542:A:H3'	36:BA:1542:A:C8	2.47	0.49
36:BA:2441:C:H2'	36:BA:2442:C:C6	2.39	0.49
36:BA:2713:A:H3'	36:BA:2714:G:C5'	2.43	0.49
36:BA:2745:C:O3'	43:BH:142:GLY:HA3	2.12	0.49
36:BA:2845:G:O2'	36:BA:2846:G:H5'	2.13	0.49
39:BD:25:THR:O	39:BD:27:THR:HG22	2.13	0.49
39:BD:101:GLU:CG	39:BD:102:LYS:N	2.75	0.49
39:BD:128:GLY:H	39:BD:193:VAL:HG13	1.77	0.49
39:BD:196:VAL:O	39:BD:196:VAL:CG1	2.60	0.49
42:BG:121:ASN:CG	42:BG:124:SER:HB2	2.33	0.49
44:BJ:116:UNK:O	44:BJ:123:UNK:N	2.46	0.49
46:BN:30:ILE:O	46:BN:34:LEU:HB2	2.13	0.49
54:BV:47:VAL:O	54:BV:49:THR:O	2.31	0.49
57:BY:95:LYS:HE3	57:BY:100:ALA:CB	2.43	0.49
58:BZ:24:LEU:C	58:BZ:24:LEU:CD2	2.81	0.49
1:CA:356:A:H2'	1:CA:357:G:H8	1.77	0.49
1:CA:642:A:H1'	8:CH:113:SER:HG	1.76	0.49
1:CA:668:G:H2'	1:CA:669:U:C6	2.48	0.49
1:CA:862:C:O2'	1:CA:863:U:H5'	2.12	0.49
1:CA:874:G:C6	1:CA:875:C:C4	3.01	0.49
1:CA:1077:G:N2	1:CA:1079:G:H3'	2.28	0.49
1:CA:1085:U:H5'	1:CA:1094:G:N2	2.28	0.49
1:CA:1217:C:O2'	1:CA:1218:C:H5'	2.12	0.49
1:CA:1245:A:O2'	1:CA:1246:C:H5'	2.13	0.49
1:CA:1285:A:H1'	1:CA:1286:A:C8	2.47	0.49
1:CA:1286:A:O2'	1:CA:1287:A:C5'	2.61	0.49
1:CA:1464:G:O2'	1:CA:1465:C:H5'	2.13	0.49
2:CB:71:VAL:O	2:CB:164:VAL:HA	2.12	0.49
3:CC:157:ILE:HD13	3:CC:166:GLU:HB2	1.94	0.49
7:CG:31:MET:C	7:CG:32:ARG:HG3	2.33	0.49
9:CI:93:ARG:HA	9:CI:96:LEU:HB3	1.94	0.49
10:CJ:8:LEU:CD2	10:CJ:96:ILE:HG22	2.43	0.49
12:CL:55:VAL:HG23	12:CL:68:ALA:C	2.33	0.49
14:CN:12:ARG:HB3	14:CN:14:PRO:CG	2.43	0.49
18:CR:50:ILE:CD1	18:CR:70:ILE:HG21	2.39	0.49
20:CT:37:SER:O	20:CT:41:ILE:HG12	2.12	0.49
22:CW:55:U:HO2'	22:CW:56:C:H6	1.55	0.49
25:CZ:263:ARG:HH21	25:CZ:297:GLU:CB	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:30:ARG:O	28:D2:34:GLU:HB2	2.12	0.49
29:D3:14:GLY:O	36:DA:969:U:H4'	2.13	0.49
33:D7:29:LYS:HE3	36:DA:210:C:OP2	2.13	0.49
36:DA:25:U:H2'	36:DA:26:G:O4'	2.12	0.49
36:DA:182:A:C6	36:DA:183:C:C4	3.01	0.49
36:DA:216:A:C2'	36:DA:217:G:H5'	2.43	0.49
36:DA:218:A:C2'	36:DA:219:G:H5'	2.43	0.49
36:DA:230:U:O2'	36:DA:231:C:H5'	2.13	0.49
36:DA:716:A:C3'	36:DA:717:G:H5''	2.42	0.49
36:DA:784:A:C6	39:DD:229:VAL:HG11	2.46	0.49
36:DA:910:A:N6	49:DQ:11:LYS:O	2.46	0.49
36:DA:1060:U:H1'	36:DA:1061:U:H5''	1.94	0.49
36:DA:1217:C:C2	36:DA:1218:C:C5	3.01	0.49
36:DA:1222:C:C3'	36:DA:1223:G:H5''	2.43	0.49
36:DA:1328:G:H4'	36:DA:1329:U:H5	1.78	0.49
36:DA:1416:G:O2'	36:DA:1417:C:H5	1.95	0.49
36:DA:1429:G:H2'	36:DA:1430:C:H6	1.78	0.49
36:DA:1666:G:O3'	47:DO:6:THR:HG23	2.13	0.49
36:DA:1669:A:OP2	36:DA:1670:C:OP2	2.30	0.49
36:DA:1799:G:H5'	36:DA:1819:A:N6	2.28	0.49
36:DA:2373:G:H2'	36:DA:2374:C:C6	2.48	0.49
36:DA:2689:U:H4'	36:DA:2690:C:OP2	2.12	0.49
36:DA:2690:C:H4'	36:DA:2872:G:H21	1.78	0.49
36:DA:2713:A:H3'	36:DA:2714:G:H5'	1.93	0.49
36:DA:2770:G:H5'	36:DA:2771:C:OP2	2.13	0.49
36:DA:2792:G:O2'	36:DA:2793:G:H5'	2.12	0.49
37:DB:105:A:H4'	58:DZ:89:PHE:CD2	2.47	0.49
38:DC:66:HIS:CG	38:DC:184:LYS:HD2	2.47	0.49
38:DC:181:PRO:HB2	38:DC:183:GLU:OE2	2.12	0.49
40:DE:195:LEU:HD11	40:DE:197:ILE:CG2	2.42	0.49
41:DF:51:THR:CG2	41:DF:92:PRO:HD2	2.43	0.49
42:DG:138:GLN:HA	42:DG:155:MET:CE	2.42	0.49
53:DU:47:TYR:HA	53:DU:50:ARG:HB2	1.95	0.49
53:DU:57:PHE:C	53:DU:59:ARG:N	2.64	0.49
54:DV:43:GLU:O	54:DV:44:LYS:HB2	2.12	0.49
56:DX:43:VAL:O	56:DX:47:PHE:HB2	2.13	0.49
56:DX:54:VAL:O	56:DX:55:ASN:ND2	2.40	0.49
56:DX:74:PRO:O	56:DX:76:ARG:HD2	2.13	0.49
57:DY:17:SER:CB	57:DY:71:LYS:HD2	2.42	0.49
57:DY:28:LYS:O	57:DY:38:ILE:HG22	2.13	0.49
57:DY:29:GLU:CD	57:DY:38:ILE:HG21	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:8:TYR:O	58:DZ:9:TYR:C	2.50	0.49
1:AA:10:A:N7	5:AE:126:ARG:NH1	2.61	0.49
1:AA:59:A:C2	1:AA:331:G:N3	2.81	0.49
1:AA:64:G:H5''	1:AA:65:U:OP1	2.13	0.49
1:AA:356:A:H2'	1:AA:357:G:C8	2.48	0.49
1:AA:495:A:H1'	1:AA:496:A:C8	2.47	0.49
1:AA:660:G:H2'	1:AA:661:G:C8	2.43	0.49
1:AA:750:G:H21	15:AO:24:SER:H	1.59	0.49
1:AA:837:G:C2'	1:AA:838:G:H5'	2.42	0.49
1:AA:1010:G:H2'	1:AA:1011:G:H8	1.77	0.49
1:AA:1203:C:O2'	1:AA:1204:A:H5'	2.13	0.49
1:AA:1298:C:OP2	7:AG:114:ARG:NH2	2.46	0.49
1:AA:1363(A):A:H1'	1:AA:1365:G:N7	2.27	0.49
1:AA:1367:C:H5'	10:AJ:60:ARG:CZ	2.42	0.49
1:AA:1493:A:C2	24:AY:37:YG:O4'	2.65	0.49
1:AA:1497:G:O2'	1:AA:1518:A:N1	2.45	0.49
1:AA:1519:A:H5''	1:AA:1520:G:C8	2.48	0.49
3:AC:35:GLU:O	3:AC:37:GLN:N	2.46	0.49
3:AC:134:ILE:HG21	3:AC:168:ALA:HB3	1.94	0.49
4:AD:65:ARG:HD2	4:AD:72:GLU:N	2.27	0.49
4:AD:70:ILE:CG2	4:AD:74:GLN:HB2	2.42	0.49
7:AG:118:VAL:O	7:AG:121:ALA:HB3	2.13	0.49
9:AI:6:GLY:CA	9:AI:84:ALA:HB2	2.42	0.49
10:AJ:92:THR:CG2	10:AJ:93:GLY:H	2.25	0.49
11:AK:114:VAL:HG23	11:AK:115:PRO:HD2	1.95	0.49
13:AM:29:ARG:HA	13:AM:32:GLU:OE2	2.13	0.49
14:AN:59:ALA:O	14:AN:60:SER:CB	2.61	0.49
21:AU:10:ARG:O	21:AU:11:GLY:C	2.49	0.49
22:AV:12:U:H5''	36:BA:1908:C:O2'	2.13	0.49
22:AV:50:U:C2'	22:AV:51:U:H5'	2.43	0.49
25:AZ:25:THR:OG1	62:AZ:501:GDP:O2B	2.30	0.49
25:AZ:267:VAL:CG2	25:AZ:288:VAL:HG13	2.43	0.49
27:B1:87:PRO:CA	27:B1:90:ILE:HG12	2.32	0.49
27:B1:88:LYS:NZ	27:B1:92:LYS:HE3	2.28	0.49
28:B2:24:LEU:HD22	28:B2:25:VAL:HG23	1.94	0.49
32:B6:32:ASN:O	32:B6:33:LYS:CB	2.60	0.49
36:BA:26:G:H1'	36:BA:515:A:H61	1.78	0.49
36:BA:116:C:O2	36:BA:126:A:H2	1.96	0.49
36:BA:153:C:H2'	36:BA:154:G:H8	1.78	0.49
36:BA:201:C:C2'	36:BA:202:U:H5'	2.42	0.49
36:BA:391:G:O5'	36:BA:391:G:C8	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:437:G:O2'	36:BA:438:G:H5'	2.13	0.49
36:BA:629:G:H5'	36:BA:629:G:H8	1.78	0.49
36:BA:654(P):C:H2'	36:BA:654(Q):C:O4'	2.12	0.49
36:BA:755:C:H2'	36:BA:756:C:H6	1.77	0.49
36:BA:1131:G:C2	46:BN:75:TYR:CB	2.96	0.49
36:BA:1328:G:H2'	36:BA:1330:C:C5	2.48	0.49
36:BA:1503:U:H2'	36:BA:1504:C:C5	2.48	0.49
36:BA:1525:G:O2'	36:BA:1526:G:H5'	2.13	0.49
36:BA:1651:G:N2	36:BA:1652:A:H1'	2.27	0.49
36:BA:1657:C:OP1	40:BE:136:ARG:HB2	2.13	0.49
36:BA:1770:G:O2'	36:BA:1771:C:H5'	2.12	0.49
36:BA:2186:G:C2	36:BA:2187:G:C6	3.01	0.49
36:BA:2236:C:H2'	36:BA:2237:G:O4'	2.13	0.49
36:BA:2271:G:O2'	36:BA:2272:U:H5'	2.13	0.49
36:BA:2488:A:O2'	36:BA:2489:G:H5'	2.12	0.49
38:BC:189:ILE:HG22	38:BC:190:ARG:N	2.28	0.49
39:BD:79:VAL:CG1	39:BD:113:VAL:HA	2.43	0.49
39:BD:136:ILE:CG2	39:BD:140:THR:OG1	2.61	0.49
39:BD:170:GLY:C	39:BD:172:TYR:H	2.16	0.49
40:BE:95:ILE:H	40:BE:95:ILE:CD1	2.25	0.49
41:BF:8:GLN:HB3	41:BF:126:VAL:HA	1.95	0.49
41:BF:170:LEU:HB3	41:BF:173:VAL:HG23	1.95	0.49
49:BQ:67:ARG:HB3	49:BQ:67:ARG:NH1	2.28	0.49
50:BR:4:LEU:HD12	50:BR:6:SER:O	2.13	0.49
50:BR:67:LEU:CD2	50:BR:76:VAL:HG21	2.42	0.49
50:BR:76:VAL:CG1	50:BR:77:ARG:N	2.75	0.49
53:BU:10:ARG:O	53:BU:11:ARG:C	2.50	0.49
57:BY:15:VAL:HB	57:BY:20:TYR:O	2.13	0.49
1:CA:234:C:O2'	1:CA:235:C:H5'	2.13	0.49
1:CA:507:C:C6	1:CA:508:C:C5	3.01	0.49
1:CA:517:G:N2	1:CA:533:A:OP2	2.44	0.49
1:CA:748:C:HO2'	1:CA:749:C:P	2.35	0.49
1:CA:945:G:O2'	1:CA:946:A:H5'	2.12	0.49
1:CA:1188:A:H2'	1:CA:1189:C:O4'	2.13	0.49
1:CA:1508:G:C5	1:CA:1509:C:C5	3.01	0.49
2:CB:114:ARG:HH11	2:CB:118:LEU:HD21	1.77	0.49
2:CB:179:LYS:CA	8:CH:72:PRO:HD3	2.41	0.49
2:CB:200:ILE:HG22	2:CB:202:PRO:CD	2.43	0.49
4:CD:58:LEU:O	4:CD:62:GLN:HG2	2.13	0.49
8:CH:17:THR:C	8:CH:78:GLN:HE22	2.15	0.49
8:CH:125:ARG:HG3	8:CH:125:ARG:HH11	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:14:ARG:HB2	13:CM:17:VAL:CG2	2.43	0.49
20:CT:57:ARG:NH1	20:CT:57:ARG:CB	2.73	0.49
22:CV:5:G:H2'	22:CV:6:G:H8	1.78	0.49
22:CV:50:U:C2'	22:CV:51:U:H5'	2.42	0.49
24:CY:51:C:H2'	24:CY:52:A:H8	1.78	0.49
24:CY:61:C:C3'	24:CY:62:U:H5''	2.40	0.49
25:CZ:257:GLY:HA3	25:CZ:302:GLN:HG2	1.95	0.49
25:CZ:368:VAL:HG12	25:CZ:369:THR:N	2.18	0.49
26:D0:51:VAL:HG21	26:D0:79:VAL:O	2.12	0.49
29:D3:15:TYR:OH	37:DB:84:C:OP1	2.26	0.49
29:D3:17:LYS:HG2	36:DA:969:U:OP1	2.12	0.49
30:D4:16:CYS:HA	30:D4:33:VAL:HG12	1.93	0.49
36:DA:197:A:H4'	36:DA:2069:G:OP1	2.12	0.49
36:DA:533:G:H5'	53:DU:24:TYR:CE2	2.48	0.49
36:DA:580:C:O2'	36:DA:581:C:H5'	2.12	0.49
36:DA:892:G:H2'	36:DA:893:C:C6	2.47	0.49
36:DA:1091:G:H2'	36:DA:1092:C:C6	2.48	0.49
36:DA:1627:G:H2'	36:DA:1628:G:H8	1.78	0.49
36:DA:1763:G:H2'	36:DA:1764:G:H5'	1.94	0.49
36:DA:1764:G:C6	36:DA:1989:G:C2	3.01	0.49
36:DA:2023:G:O2'	36:DA:2024:G:H5'	2.13	0.49
36:DA:2122:U:O2	38:DC:172:HIS:NE2	2.45	0.49
36:DA:2261:C:H1'	36:DA:2388:A:H1'	1.95	0.49
36:DA:2284:C:H42	36:DA:2384:G:H1	1.59	0.49
36:DA:2822:G:OP2	40:DE:110:GLY:C	2.51	0.49
38:DC:58:VAL:HG22	38:DC:201:PRO:HG2	1.94	0.49
38:DC:83:ILE:HG23	38:DC:95:GLY:HA3	1.95	0.49
40:DE:3:GLY:O	40:DE:4:ILE:CB	2.61	0.49
40:DE:69:LYS:HD3	40:DE:89:ASP:HA	1.95	0.49
41:DF:25:PRO:HB3	41:DF:119:ARG:HA	1.95	0.49
47:DO:72:PRO:O	47:DO:74:GLY:N	2.45	0.49
48:DP:59:LEU:C	48:DP:61:ARG:H	2.16	0.49
50:DR:17:ARG:NH1	50:DR:17:ARG:HB3	2.28	0.49
50:DR:59:ASP:O	50:DR:60:LEU:C	2.50	0.49
52:DT:61:PHE:N	52:DT:61:PHE:CD2	2.80	0.49
53:DU:28:ARG:O	53:DU:35:ALA:HA	2.12	0.49
57:DY:96:ILE:CD1	57:DY:99:CYS:SG	3.01	0.49
1:AA:66:G:H8	1:AA:66:G:O5'	1.95	0.48
1:AA:148:G:H2'	1:AA:149:A:C8	2.48	0.48
1:AA:407:G:OP1	4:AD:115:ARG:CZ	2.61	0.48
1:AA:530:G:O2'	24:AY:35:G:C4'	2.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:544:G:OP2	4:AD:66:ARG:NH2	2.46	0.48
1:AA:745:C:O2'	1:AA:746:A:H5'	2.13	0.48
1:AA:1152:A:C4	1:AA:1153:C:C5	3.01	0.48
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.42	0.48
1:AA:1245:A:H2'	1:AA:1246:C:H6	1.78	0.48
1:AA:1329:A:P	13:AM:28:ALA:HB3	2.53	0.48
1:AA:1383:C:O2'	1:AA:1384:C:H5'	2.12	0.48
3:AC:140:ARG:HG3	3:AC:140:ARG:HH11	1.78	0.48
4:AD:16:GLY:HA2	4:AD:33:MET:HE1	1.95	0.48
5:AE:72:GLN:OE1	5:AE:77:PRO:HA	2.12	0.48
11:AK:123:LYS:O	11:AK:126:ARG:HB3	2.13	0.48
14:AN:24:CYS:N	14:AN:29:ARG:O	2.46	0.48
14:AN:51:GLY:O	14:AN:53:LEU:N	2.46	0.48
16:AP:9:PHE:HE2	16:AP:18:ARG:HD2	1.78	0.48
20:AT:89:ARG:C	20:AT:91:LEU:H	2.16	0.48
25:AZ:29:ALA:HB3	25:AZ:179:LEU:HD22	1.95	0.48
34:B8:3:LYS:NZ	36:BA:242:G:OP2	2.42	0.48
36:BA:6:A:O2'	46:BN:130:HIS:CB	2.56	0.48
36:BA:307:G:H8	36:BA:307:G:O5'	1.95	0.48
36:BA:391:G:C5	36:BA:392:C:C5	3.01	0.48
36:BA:684:G:H2'	36:BA:774:A:H61	1.78	0.48
36:BA:797:C:OP2	41:BF:62:ARG:HG3	2.13	0.48
36:BA:1054:A:H2'	36:BA:1054:A:N3	2.28	0.48
36:BA:1060:U:O2'	36:BA:1061:U:OP2	2.31	0.48
36:BA:2131:G:H5''	36:BA:2132:U:O5'	2.12	0.48
36:BA:2312:U:C2'	36:BA:2313:C:C5'	2.90	0.48
36:BA:2422:A:C8	36:BA:2422:A:C3'	2.96	0.48
36:BA:2518:A:O2'	36:BA:2519:U:H5'	2.12	0.48
36:BA:2530:A:C3'	36:BA:2531:A:H5''	2.42	0.48
36:BA:2554:U:H2'	36:BA:2555:U:H6	1.78	0.48
38:BC:100:ILE:CG2	38:BC:126:LYS:HB3	2.33	0.48
39:BD:161:THR:H	39:BD:196:VAL:HB	1.78	0.48
40:BE:195:LEU:HD11	40:BE:197:ILE:HG22	1.94	0.48
42:BG:9:ARG:HB3	42:BG:9:ARG:HH11	1.76	0.48
43:BH:41:MET:HA	43:BH:55:PRO:HD3	1.96	0.48
43:BH:46:GLU:HB3	43:BH:50:VAL:HG13	1.94	0.48
43:BH:89:ILE:HG22	43:BH:162:ILE:HG13	1.95	0.48
46:BN:21:LYS:HE3	46:BN:25:ARG:HB2	1.95	0.48
46:BN:38:HIS:O	53:BU:67:ALA:HB1	2.13	0.48
46:BN:39:ARG:HE	46:BN:41:ASP:HB3	1.76	0.48
46:BN:131:GLN:NE2	46:BN:133:GLN:CA	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:77:ILE:HD11	52:BT:72:VAL:HG12	1.95	0.48
55:BW:12:ILE:CG1	55:BW:42:ARG:NH1	2.76	0.48
57:BY:7:VAL:CB	57:BY:8:LYS:HD2	2.29	0.48
1:CA:341:C:O2'	1:CA:342:C:H5'	2.13	0.48
1:CA:521:G:OP1	12:CL:73:GLU:HA	2.13	0.48
1:CA:940:C:H2'	1:CA:941:G:C8	2.47	0.48
1:CA:1096:C:N4	1:CA:1097:C:N4	2.60	0.48
1:CA:1190:G:OP2	3:CC:5:ILE:HG23	2.13	0.48
2:CB:19:HIS:NE2	2:CB:206:ASP:HB2	2.28	0.48
2:CB:88:ALA:HB2	2:CB:219:VAL:CG1	2.43	0.48
2:CB:178:ARG:HH12	8:CH:74:PRO:HD3	1.78	0.48
2:CB:189:ASP:OD1	2:CB:205:ASP:HB3	2.13	0.48
6:CF:97:PHE:HD2	18:CR:31:LEU:HD21	1.78	0.48
7:CG:71:PRO:HA	7:CG:142:GLU:OE1	2.13	0.48
8:CH:64:LYS:C	8:CH:65:TYR:CD1	2.86	0.48
10:CJ:14:LYS:C	10:CJ:16:LEU:N	2.65	0.48
11:CK:80:VAL:HG22	11:CK:104:GLN:O	2.12	0.48
12:CL:41:ARG:NH1	12:CL:57:LYS:NZ	2.61	0.48
13:CM:14:ARG:HG2	13:CM:42:ALA:O	2.13	0.48
13:CM:32:GLU:C	13:CM:34:LEU:H	2.15	0.48
13:CM:66:LEU:O	13:CM:67:GLU:O	2.31	0.48
15:CO:23:GLY:O	15:CO:24:SER:HB3	2.11	0.48
16:CP:5:ARG:NH2	16:CP:24:ALA:O	2.46	0.48
16:CP:14:ASN:HA	16:CP:42:ARG:CZ	2.43	0.48
17:CQ:88:TYR:O	17:CQ:89:LEU:C	2.50	0.48
18:CR:47:THR:HB	18:CR:49:LYS:HZ2	1.76	0.48
19:CS:28:LYS:HE2	19:CS:29:ARG:CZ	2.42	0.48
19:CS:67:VAL:C	19:CS:69:HIS:H	2.17	0.48
25:CZ:259:ALA:O	25:CZ:260:PRO:C	2.52	0.48
25:CZ:318:ALA:HB2	25:CZ:400:VAL:HA	1.94	0.48
27:D1:12:PRO:HB3	27:D1:43:TYR:HA	1.95	0.48
32:D6:39:TYR:O	32:D6:47:THR:O	2.31	0.48
35:D9:1:MET:HA	35:D9:4:ARG:CZ	2.43	0.48
36:DA:269:U:O2	36:DA:269:U:C2'	2.57	0.48
36:DA:345:A:N3	36:DA:347:A:N6	2.61	0.48
36:DA:456:C:C2	56:DX:69:TYR:HE2	2.31	0.48
36:DA:1028:A:H61	36:DA:1125:G:H2'	1.77	0.48
36:DA:1469:A:H2'	36:DA:1470:G:O4'	2.13	0.48
36:DA:1558:A:C5	36:DA:1560:G:C8	3.01	0.48
36:DA:1645:G:H5''	36:DA:1646:C:H5'	1.93	0.48
36:DA:1710:C:O5'	36:DA:1710:C:H6	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2649:U:H2'	36:DA:2650:U:C6	2.48	0.48
38:DC:108:MET:O	38:DC:109:ASP:O	2.31	0.48
40:DE:3:GLY:HA3	40:DE:81:ILE:HD12	1.96	0.48
41:DF:133:ASN:HB2	41:DF:138:GLU:OE2	2.13	0.48
41:DF:203:GLN:C	41:DF:205:ARG:N	2.66	0.48
43:DH:149:ARG:HA	43:DH:162:ILE:HG23	1.94	0.48
46:DN:1:MET:C	46:DN:1:MET:SD	2.91	0.48
46:DN:3:THR:C	46:DN:4:TYR:CG	2.87	0.48
47:DO:119:PRO:HB2	52:DT:68:TYR:CE2	2.47	0.48
48:DP:9:ASN:O	48:DP:10:PRO:C	2.49	0.48
49:DQ:33:GLY:O	49:DQ:131:ILE:HA	2.12	0.48
50:DR:17:ARG:O	50:DR:20:LEU:HB3	2.13	0.48
52:DT:29:ARG:CB	52:DT:85:LYS:HA	2.43	0.48
53:DU:85:LYS:HD2	53:DU:117:GLN:HE22	1.78	0.48
53:DU:92:ARG:NH2	54:DV:10:LYS:CB	2.76	0.48
55:DW:68:ARG:O	55:DW:110:LYS:N	2.46	0.48
57:DY:36:ALA:HA	57:DY:67:LEU:O	2.13	0.48
58:DZ:50:GLN:O	58:DZ:52:SER:N	2.46	0.48
1:AA:36:C:H2'	1:AA:37:U:C6	2.48	0.48
1:AA:112:G:H4'	1:AA:389:A:H4'	1.95	0.48
1:AA:154:C:H2'	1:AA:155:C:H6	1.78	0.48
1:AA:542:G:H2'	1:AA:543:C:C6	2.48	0.48
1:AA:1006:C:N4	1:AA:1024:G:H21	2.11	0.48
1:AA:1079:G:H2'	1:AA:1080:A:C8	2.47	0.48
1:AA:1158:C:O2	1:AA:1158:C:C2'	2.60	0.48
1:AA:1371:G:OP1	9:AI:11:LYS:HE3	2.13	0.48
59:AA:1601:PAR:O43	59:AA:1601:PAR:H11	2.13	0.48
2:AB:69:LEU:HD12	2:AB:71:VAL:CG2	2.39	0.48
2:AB:170:GLU:CA	2:AB:172:ILE:HD12	2.42	0.48
3:AC:120:VAL:HG12	3:AC:198:VAL:HG21	1.95	0.48
4:AD:127:THR:CG2	4:AD:130:GLY:O	2.61	0.48
7:AG:65:ALA:HA	7:AG:128:ALA:HA	1.95	0.48
13:AM:63:THR:CG2	13:AM:64:TRP:H	2.12	0.48
18:AR:53:ARG:CZ	18:AR:59:SER:HA	2.43	0.48
24:AY:55:PSU:O4	24:AY:55:PSU:H5''	2.13	0.48
24:AY:76:A:N6	25:AZ:234:ARG:HG3	2.28	0.48
25:AZ:27:LEU:HD23	25:AZ:105:VAL:CG2	2.42	0.48
28:B2:59:ARG:HB3	36:BA:76:C:O3'	2.13	0.48
31:B5:17:ASP:HB2	36:BA:16:G:H5''	1.94	0.48
33:B7:36:GLN:O	33:B7:38:GLY:N	2.46	0.48
34:B8:59:LYS:CE	48:BP:50:ARG:HB3	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:752:A:O2'	36:BA:753:C:OP2	2.27	0.48
36:BA:1059:G:H21	45:BK:126:UNK:HA	1.77	0.48
36:BA:1184:G:H2'	36:BA:1185:C:H5'	1.95	0.48
36:BA:1370:C:C2	36:BA:1371:G:C8	3.01	0.48
36:BA:2123:G:O6	36:BA:2175:C:N4	2.46	0.48
36:BA:2261:C:H1'	36:BA:2388:A:H1'	1.95	0.48
36:BA:2832:U:H4'	36:BA:2833:G:H5''	1.94	0.48
38:BC:147:PHE:O	38:BC:149:ILE:N	2.46	0.48
39:BD:131:LEU:HA	39:BD:190:TYR:CE2	2.49	0.48
40:BE:109:LYS:O	40:BE:161:GLY:HA3	2.13	0.48
40:BE:149:ARG:HG3	40:BE:149:ARG:NH1	2.27	0.48
40:BE:192:ASN:HD22	40:BE:192:ASN:C	2.16	0.48
41:BF:8:GLN:O	41:BF:10:PRO:HD3	2.13	0.48
41:BF:70:THR:CG2	41:BF:72:ARG:HG2	2.43	0.48
43:BH:59:ARG:HA	43:BH:62:LYS:HB2	1.96	0.48
45:BK:73:UNK:O	45:BK:76:UNK:N	2.46	0.48
47:BO:2:ILE:CD1	47:BO:6:THR:HG21	2.43	0.48
47:BO:17:ARG:O	47:BO:18:LYS:CB	2.61	0.48
50:BR:38:VAL:O	50:BR:41:ALA:HB3	2.13	0.48
53:BU:85:LYS:CD	53:BU:117:GLN:HE22	2.25	0.48
56:BX:12:VAL:HA	56:BX:27:THR:O	2.13	0.48
57:BY:36:ALA:HA	57:BY:67:LEU:O	2.13	0.48
1:CA:662:G:H2'	1:CA:663:A:C8	2.44	0.48
1:CA:709:G:H2'	1:CA:710:G:C8	2.46	0.48
1:CA:714:G:H2'	1:CA:715:A:C8	2.48	0.48
1:CA:908:A:O2'	1:CA:909:A:H5'	2.14	0.48
1:CA:954:G:H21	1:CA:1227:A:N6	2.12	0.48
1:CA:973:G:C1'	10:CJ:55:LYS:CE	2.90	0.48
1:CA:1055:A:N7	1:CA:1206:G:C2	2.81	0.48
1:CA:1490:C:N3	1:CA:1491:G:N7	2.61	0.48
2:CB:24:TRP:HZ3	2:CB:26:PRO:HA	1.72	0.48
2:CB:149:LEU:O	2:CB:150:SER:C	2.51	0.48
3:CC:35:GLU:O	3:CC:36:ASP:C	2.52	0.48
3:CC:68:VAL:O	3:CC:103:VAL:HA	2.13	0.48
10:CJ:63:PHE:HB3	14:CN:58:LYS:CA	2.35	0.48
11:CK:89:ALA:C	11:CK:91:ARG:N	2.66	0.48
14:CN:47:LEU:HB3	14:CN:53:LEU:HG	1.94	0.48
14:CN:51:GLY:O	14:CN:53:LEU:N	2.46	0.48
19:CS:51:VAL:HG23	19:CS:60:VAL:CG1	2.37	0.48
25:CZ:27:LEU:HD23	25:CZ:105:VAL:CG2	2.43	0.48
25:CZ:241:ARG:HB2	25:CZ:285:ASN:ND2	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:306:LYS:O	25:CZ:308:GLY:N	2.46	0.48
25:CZ:371:THR:HG22	25:CZ:372:VAL:N	2.28	0.48
27:D1:53:VAL:O	27:D1:55:GLY:N	2.34	0.48
28:D2:2:LYS:HB2	36:DA:97:C:OP1	2.14	0.48
31:D5:16:ARG:HH11	31:D5:16:ARG:HG2	1.77	0.48
31:D5:43:HIS:N	31:D5:43:HIS:CD2	2.80	0.48
32:D6:5:VAL:CG2	36:DA:2283:C:H5'	2.43	0.48
32:D6:12:GLU:CD	32:D6:54:ILE:CG2	2.79	0.48
35:D9:1:MET:SD	36:DA:2477:C:C3'	3.01	0.48
36:DA:733:G:C6	36:DA:761:A:C5	3.02	0.48
36:DA:736:C:O2'	36:DA:737:C:H5'	2.12	0.48
36:DA:1516:C:H2'	36:DA:1517:G:C5'	2.25	0.48
36:DA:1518:U:C2	36:DA:1519:G:H1'	2.48	0.48
36:DA:1657:C:C2'	36:DA:1658:C:H5'	2.43	0.48
36:DA:1856:G:H2'	36:DA:1857:G:H5'	1.96	0.48
36:DA:2115:G:N3	36:DA:2117:A:N7	2.61	0.48
36:DA:2377:A:O2'	36:DA:2378:A:H5'	2.13	0.48
36:DA:2514:U:H2'	36:DA:2515:C:H6	1.76	0.48
36:DA:2710:C:C2'	36:DA:2711:A:H5'	2.43	0.48
36:DA:2761:G:H2'	36:DA:2762:G:C5'	2.13	0.48
37:DB:75:G:N2	58:DZ:87:ASP:OD2	2.46	0.48
39:DD:101:GLU:CG	39:DD:102:LYS:N	2.76	0.48
39:DD:147:LEU:HD21	39:DD:183:ARG:NH1	2.27	0.48
41:DF:111:ALA:O	41:DF:114:VAL:HB	2.13	0.48
41:DF:188:ARG:HB3	48:DP:7:ARG:HD3	1.96	0.48
43:DH:105:LEU:H	43:DH:105:LEU:CD2	2.26	0.48
45:DK:73:UNK:O	45:DK:74:UNK:C	2.61	0.48
46:DN:55:VAL:O	46:DN:56:ASN:C	2.51	0.48
46:DN:103:VAL:O	46:DN:106:MET:N	2.46	0.48
47:DO:120:GLU:OE1	47:DO:122:LEU:HD11	2.13	0.48
48:DP:16:ARG:NH1	48:DP:16:ARG:O	2.43	0.48
49:DQ:45:GLN:HG2	49:DQ:46:GLN:H	1.78	0.48
50:DR:6:SER:OG	50:DR:8:ARG:NH2	2.47	0.48
51:DS:12:PHE:N	51:DS:12:PHE:CD2	2.81	0.48
52:DT:78:LEU:H	52:DT:82:LEU:HD21	1.78	0.48
57:DY:7:VAL:HG21	57:DY:8:LYS:HZ1	1.78	0.48
58:DZ:158:PRO:HB2	58:DZ:161:VAL:HG23	1.95	0.48
1:AA:375:U:H4'	16:AP:17:TYR:HE2	1.78	0.48
1:AA:578:C:H2'	1:AA:579:G:H8	1.78	0.48
1:AA:692:U:O4	11:AK:53:SER:HA	2.13	0.48
1:AA:786:G:H2'	1:AA:787:A:O4'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:792:A:O2'	1:AA:793:U:P	2.71	0.48
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.43	0.48
1:AA:1173:G:H2'	1:AA:1174:G:C8	2.48	0.48
1:AA:1190:G:OP2	3:AC:5:ILE:HG23	2.13	0.48
1:AA:1226:C:H6	13:AM:103:THR:HG1	1.59	0.48
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.48	0.48
1:AA:1395:C:O5'	1:AA:1395:C:H6	1.96	0.48
2:AB:58:ILE:O	2:AB:59:GLU:C	2.50	0.48
4:AD:162:LEU:HD11	4:AD:178:VAL:O	2.14	0.48
6:AF:19:LEU:HD23	6:AF:19:LEU:C	2.33	0.48
7:AG:22:LEU:HD23	7:AG:22:LEU:C	2.34	0.48
7:AG:36:LYS:C	7:AG:39:ALA:HB3	2.34	0.48
7:AG:91:VAL:HG22	7:AG:95:ARG:HD3	1.94	0.48
7:AG:118:VAL:HG23	7:AG:119:ARG:N	2.17	0.48
12:AL:94:PRO:O	12:AL:96:VAL:HG23	2.13	0.48
13:AM:10:PRO:O	13:AM:11:ARG:CB	2.50	0.48
18:AR:71:LYS:O	18:AR:74:ARG:HB2	2.13	0.48
18:AR:75:ILE:C	18:AR:77:GLY:N	2.67	0.48
22:AV:61:C:HO2'	22:AV:62:C:P	2.37	0.48
26:B0:24:LYS:HG3	36:BA:2355:C:H4'	1.95	0.48
27:B1:5:CYS:SG	27:B1:63:ALA:N	2.84	0.48
27:B1:29:GLY:O	27:B1:30:VAL:C	2.51	0.48
29:B3:45:GLY:HA2	29:B3:48:GLU:CG	2.44	0.48
30:B4:28:LYS:HE3	30:B4:28:LYS:HA	1.94	0.48
36:BA:183:C:O2'	36:BA:184:C:H5'	2.12	0.48
36:BA:442:G:C4'	41:BF:46:ARG:HD3	2.42	0.48
36:BA:884:C:H2'	36:BA:885:C:H5'	1.94	0.48
36:BA:892:G:H2'	36:BA:893:C:C5	2.48	0.48
36:BA:1054:A:C6	36:BA:1106:G:O6	2.66	0.48
36:BA:1168:G:O2'	36:BA:1169:G:H5'	2.13	0.48
36:BA:1274:A:N6	36:BA:1646:C:O2	2.42	0.48
36:BA:1279:G:H1	36:BA:1291:C:N4	2.07	0.48
36:BA:1370:C:H3'	36:BA:1371:G:C8	2.38	0.48
36:BA:1416:G:O2'	36:BA:1417:C:H5	1.96	0.48
36:BA:1497:U:O2	36:BA:1497:U:H2'	2.13	0.48
36:BA:1884:A:C3'	36:BA:1885:A:H5''	2.43	0.48
36:BA:1945:G:C6	36:BA:1946:U:C4	3.00	0.48
36:BA:2283:C:H2'	36:BA:2284:C:O4'	2.13	0.48
36:BA:2527:C:C5	36:BA:2528:U:C5	3.01	0.48
36:BA:2882:A:H5''	50:BR:98:LEU:HD21	1.95	0.48
37:BB:44:G:H4'	37:BB:45:A:H8	1.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:66:HIS:CG	38:BC:184:LYS:HD2	2.49	0.48
39:BD:39:LYS:HB3	39:BD:60:ARG:O	2.12	0.48
39:BD:69:ARG:NH2	39:BD:192:THR:CB	2.76	0.48
40:BE:96:PHE:CD2	40:BE:182:LEU:HD21	2.48	0.48
40:BE:108:SER:O	40:BE:162:ALA:N	2.45	0.48
41:BF:127:GLU:HB2	41:BF:196:LEU:CD1	2.42	0.48
41:BF:205:ARG:HG2	41:BF:206:ILE:HD13	1.94	0.48
42:BG:14:GLU:O	42:BG:17:PRO:HG2	2.13	0.48
42:BG:60:LEU:HD12	42:BG:60:LEU:O	2.13	0.48
42:BG:95:ARG:HG2	42:BG:95:ARG:HH11	1.78	0.48
43:BH:12:PRO:CA	43:BH:48:GLY:HA2	2.42	0.48
55:BW:72:LYS:O	55:BW:73:ALA:CB	2.61	0.48
58:BZ:143:GLY:H	58:BZ:144:LEU:HD22	1.78	0.48
1:CA:8:A:OP1	1:CA:8:A:H3'	2.13	0.48
1:CA:398:C:H3'	1:CA:398:C:H6	1.78	0.48
1:CA:687:A:H2	1:CA:700:G:N3	2.11	0.48
1:CA:734:G:H2'	1:CA:735:C:C6	2.48	0.48
1:CA:923:A:N6	1:CA:924:C:N4	2.61	0.48
1:CA:1073:U:H3	1:CA:1102:A:N6	2.11	0.48
1:CA:1208:C:O2'	1:CA:1209:C:H5'	2.13	0.48
2:CB:33:TYR:CB	2:CB:43:ASP:HB2	2.40	0.48
2:CB:84:GLU:CB	2:CB:219:VAL:HG21	2.25	0.48
2:CB:168:THR:HG23	2:CB:192:SER:CA	2.43	0.48
2:CB:209:ARG:HH11	2:CB:239:VAL:CG1	2.17	0.48
2:CB:219:VAL:O	2:CB:222:ILE:HG12	2.13	0.48
4:CD:67:ILE:O	4:CD:67:ILE:HG23	2.13	0.48
4:CD:206:PHE:O	4:CD:206:PHE:CG	2.66	0.48
5:CE:10:MET:SD	5:CE:10:MET:N	2.83	0.48
6:CF:2:ARG:NE	6:CF:69:GLU:HG3	2.28	0.48
6:CF:37:VAL:CG1	6:CF:38:GLU:H	2.26	0.48
7:CG:116:ALA:O	7:CG:117:ALA:C	2.50	0.48
7:CG:145:ALA:O	7:CG:146:GLU:C	2.51	0.48
16:CP:45:THR:O	16:CP:47:ASP:N	2.44	0.48
22:CW:14:A:H2'	22:CW:15:G:O4'	2.13	0.48
25:CZ:14:VAL:O	25:CZ:79:HIS:HA	2.12	0.48
25:CZ:194:GLU:O	25:CZ:198:LYS:HG3	2.14	0.48
26:D0:30:VAL:HA	26:D0:66:VAL:CA	2.44	0.48
26:D0:56:ASP:OD2	36:DA:2364:C:H4'	2.13	0.48
26:D0:81:VAL:O	26:D0:81:VAL:HG12	2.12	0.48
33:D7:31:LEU:C	33:D7:33:ARG:N	2.67	0.48
33:D7:44:PRO:O	33:D7:45:ALA:O	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:D9:35:ARG:O	35:D9:36:GLN:O	2.31	0.48
36:DA:47:C:C5	36:DA:48:G:N7	2.81	0.48
36:DA:220:G:H2'	36:DA:427:U:O4	2.14	0.48
36:DA:601:C:O2	36:DA:605:C:H4'	2.13	0.48
36:DA:1199:U:H1'	53:DU:4:ALA:CB	2.44	0.48
36:DA:2088:G:C6	36:DA:2089:U:C4	3.01	0.48
36:DA:2316:C:C2	36:DA:2317:C:C5	3.01	0.48
36:DA:2422:A:HO2'	36:DA:2423:U:C5'	2.26	0.48
36:DA:2832:U:H4'	36:DA:2833:G:H5''	1.95	0.48
39:DD:70:TRP:CD1	39:DD:70:TRP:C	2.87	0.48
40:DE:116:VAL:HG21	40:DE:122:PHE:CE2	2.48	0.48
41:DF:34:TRP:CD1	48:DP:10:PRO:HB2	2.48	0.48
42:DG:57:ALA:CB	42:DG:90:LEU:HD21	2.42	0.48
43:DH:12:PRO:N	43:DH:48:GLY:HA2	2.29	0.48
43:DH:94:TYR:HE2	43:DH:152:ARG:HG2	1.76	0.48
43:DH:98:LEU:CB	43:DH:125:VAL:HG21	2.44	0.48
48:DP:34:GLY:O	48:DP:35:HIS:CB	2.61	0.48
48:DP:123:LEU:HD23	48:DP:123:LEU:H	1.78	0.48
49:DQ:110:THR:HG23	49:DQ:113:GLN:HB2	1.94	0.48
52:DT:61:PHE:HD2	52:DT:61:PHE:N	2.10	0.48
52:DT:89:VAL:O	52:DT:91:ARG:HG3	2.13	0.48
58:DZ:144:LEU:N	58:DZ:144:LEU:HD22	2.28	0.48
1:AA:327:A:O2'	1:AA:328:C:O4'	2.31	0.48
1:AA:507:C:H3'	1:AA:508:C:C6	2.48	0.48
1:AA:833:U:H2'	1:AA:834:C:C6	2.49	0.48
1:AA:909:A:N3	1:AA:1413:A:O2'	2.40	0.48
1:AA:922:G:H2'	1:AA:923:A:C8	2.48	0.48
1:AA:1244:C:O2'	1:AA:1245:A:H5'	2.12	0.48
1:AA:1349:A:H2'	1:AA:1350:A:H8	1.78	0.48
1:AA:1509:C:H2'	1:AA:1510:U:O4'	2.13	0.48
2:AB:106:LYS:HG2	2:AB:107:THR:H	1.78	0.48
3:AC:16:ARG:HH21	3:AC:183:ASP:CA	2.25	0.48
4:AD:91:SER:O	4:AD:94:LEU:N	2.46	0.48
5:AE:36:ASP:O	5:AE:37:ARG:C	2.50	0.48
5:AE:64:ARG:HG3	5:AE:64:ARG:HH11	1.78	0.48
5:AE:116:THR:O	5:AE:116:THR:HG22	2.14	0.48
6:AF:15:ASP:C	6:AF:17:SER:H	2.16	0.48
8:AH:20:TYR:CE2	8:AH:75:ARG:HD2	2.44	0.48
15:AO:23:GLY:O	15:AO:24:SER:HB3	2.13	0.48
16:AP:49:LEU:HD12	16:AP:50:LYS:H	1.77	0.48
17:AQ:31:LEU:HG	17:AQ:32:TYR:CE2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:44:LEU:O	18:AR:45:SER:C	2.52	0.48
21:AU:2:GLY:N	21:AU:5:ASP:HB2	2.27	0.48
22:AW:49:C:HO2'	22:AW:50:U:H6	1.58	0.48
22:AW:56:C:C2	38:BC:133:PRO:HB3	2.48	0.48
25:AZ:21:ASP:O	62:AZ:501:GDP:H5'	2.13	0.48
25:AZ:38:GLU:OE1	25:AZ:200:TRP:CH2	2.67	0.48
32:B6:7:ILE:O	32:B6:7:ILE:CG2	2.58	0.48
32:B6:15:GLU:OE2	32:B6:41:PRO:HB3	2.12	0.48
33:B7:11:LYS:O	33:B7:12:ARG:C	2.51	0.48
36:BA:556:G:H2'	36:BA:557:U:C6	2.48	0.48
36:BA:848:G:H5'	36:BA:848:G:H8	1.78	0.48
36:BA:862:G:H21	37:BB:100:A:H2	1.62	0.48
36:BA:958:U:OP2	49:BQ:14:ARG:NH1	2.46	0.48
36:BA:972:G:H2'	36:BA:973:A:H8	1.78	0.48
36:BA:1132:A:C8	36:BA:1133:U:C5	3.01	0.48
36:BA:1199:U:H1'	53:BU:4:ALA:CB	2.43	0.48
36:BA:1775:U:C2'	36:BA:1776:G:C5'	2.88	0.48
36:BA:2289:G:H1	36:BA:2343:C:H42	1.59	0.48
36:BA:2320:A:C4	36:BA:2333:A:C6	3.01	0.48
36:BA:2493:U:H2'	36:BA:2494:G:O4'	2.13	0.48
38:BC:104:LEU:O	38:BC:105:ASP:HB2	2.14	0.48
40:BE:27:LEU:HD22	52:BT:1:MET:HB2	1.96	0.48
40:BE:142:GLY:C	40:BE:143:ASN:ND2	2.67	0.48
46:BN:13:TRP:O	46:BN:135:PRO:HD2	2.13	0.48
46:BN:55:VAL:O	46:BN:56:ASN:C	2.51	0.48
49:BQ:113:GLN:O	49:BQ:116:GLU:N	2.39	0.48
51:BS:64:GLU:HA	51:BS:67:ARG:HG3	1.94	0.48
53:BU:55:ARG:HA	53:BU:58:ARG:HG3	1.94	0.48
53:BU:59:ARG:O	53:BU:60:LEU:C	2.52	0.48
53:BU:113:ALA:C	53:BU:115:ALA:H	2.16	0.48
58:BZ:10:ARG:NH2	58:BZ:36:LYS:CB	2.76	0.48
58:BZ:44:PHE:CD1	58:BZ:44:PHE:C	2.86	0.48
58:BZ:102:LEU:HD21	58:BZ:124:ILE:HD11	1.96	0.48
58:BZ:149:SER:CB	58:BZ:172:ALA:O	2.61	0.48
1:CA:315:A:H5''	1:CA:317:G:OP2	2.14	0.48
1:CA:505:G:C6	1:CA:535:A:C2	3.00	0.48
1:CA:564:C:C2	17:CQ:31:LEU:HD11	2.49	0.48
1:CA:663:A:H5'	1:CA:836:G:OP1	2.14	0.48
1:CA:956:U:H2'	1:CA:957:U:O4'	2.13	0.48
1:CA:1010:G:H2'	1:CA:1011:G:H8	1.78	0.48
1:CA:1186:G:N2	1:CA:1187:G:H1'	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.28	0.48
1:CA:1396:A:O4'	1:CA:1398:A:H1'	2.12	0.48
2:CB:28:PHE:CD1	2:CB:190:THR:HG22	2.49	0.48
2:CB:127:ILE:C	2:CB:129:GLU:N	2.67	0.48
4:CD:43:HIS:O	4:CD:45:GLN:N	2.47	0.48
4:CD:79:PHE:CD2	4:CD:207:TYR:CD1	3.01	0.48
6:CF:62:TRP:CE2	18:CR:35:ARG:CZ	2.97	0.48
7:CG:13:GLN:NE2	7:CG:14:PRO:HD2	2.28	0.48
8:CH:17:THR:HB	8:CH:78:GLN:CD	2.33	0.48
10:CJ:98:ILE:O	10:CJ:99:LYS:HD3	2.14	0.48
15:CO:37:ASN:HD22	15:CO:37:ASN:N	2.10	0.48
15:CO:81:LEU:O	15:CO:82:ILE:C	2.51	0.48
16:CP:48:TRP:CD1	16:CP:48:TRP:N	2.81	0.48
20:CT:37:SER:O	20:CT:40:ALA:HB3	2.13	0.48
25:CZ:70:TYR:CD1	25:CZ:70:TYR:C	2.87	0.48
25:CZ:200:TRP:C	25:CZ:202:LEU:N	2.67	0.48
28:D2:32:LEU:HA	28:D2:53:LEU:CD1	2.43	0.48
29:D3:11:SER:HB3	36:DA:988:A:O5'	2.12	0.48
30:D4:8:LYS:HG2	30:D4:9:LEU:H	1.70	0.48
32:D6:51:GLU:O	32:D6:52:VAL:HG23	2.13	0.48
33:D7:36:GLN:C	33:D7:38:GLY:N	2.66	0.48
36:DA:318:C:C2'	36:DA:319:C:H5'	2.43	0.48
36:DA:336:C:H5''	57:DY:7:VAL:HG11	1.96	0.48
36:DA:614(A):U:C4'	36:DA:614(B):G:H5''	2.43	0.48
36:DA:753:C:H2'	36:DA:754:C:C6	2.48	0.48
36:DA:860:U:C4	36:DA:2268:A:C8	3.02	0.48
36:DA:884:C:H2'	36:DA:885:C:H5'	1.95	0.48
36:DA:933:A:H2'	36:DA:934:G:O4'	2.13	0.48
36:DA:955:C:OP1	49:DQ:87:LYS:HE3	2.13	0.48
36:DA:1131:G:N2	46:DN:75:TYR:HB2	2.29	0.48
36:DA:1173:G:H5'	36:DA:1174:A:O5'	2.13	0.48
36:DA:1269:A:N6	36:DA:2011:U:H3	2.10	0.48
36:DA:1370:C:H2'	36:DA:1371:G:O4'	2.13	0.48
36:DA:1538:G:H2'	36:DA:1539:G:C8	2.48	0.48
36:DA:1567:A:H5'	39:DD:58:HIS:HD2	1.78	0.48
36:DA:1664:A:H3'	36:DA:1665:A:C8	2.49	0.48
36:DA:2123:G:N2	38:DC:42:GLU:OE2	2.46	0.48
36:DA:2137:C:O2'	36:DA:2138:C:H5'	2.13	0.48
36:DA:2289:G:H1	36:DA:2343:C:H42	1.59	0.48
36:DA:2320:A:C4	36:DA:2333:A:C6	3.01	0.48
36:DA:2529:G:OP2	36:DA:2530:A:H8	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2853:C:O2'	36:DA:2854:G:H5'	2.13	0.48
38:DC:51:PRO:HB2	38:DC:167:LYS:O	2.14	0.48
38:DC:59:ARG:NE	38:DC:164:ARG:HD2	2.28	0.48
39:DD:73:VAL:O	39:DD:75:ILE:N	2.44	0.48
39:DD:80:ALA:O	39:DD:113:VAL:HG11	2.14	0.48
40:DE:36:ARG:C	40:DE:37:ARG:HG2	2.33	0.48
40:DE:145:LYS:O	40:DE:146:THR:HG23	2.14	0.48
42:DG:82:LEU:HD13	42:DG:87:PRO:CB	2.43	0.48
45:DK:73:UNK:O	45:DK:76:UNK:N	2.47	0.48
46:DN:67:LEU:O	46:DN:68:GLU:HB2	2.12	0.48
46:DN:134:ARG:HH21	46:DN:136:GLU:HB2	1.79	0.48
48:DP:23:PRO:HG2	48:DP:33:ARG:NE	2.28	0.48
48:DP:23:PRO:HB2	48:DP:33:ARG:CD	2.43	0.48
53:DU:4:ALA:O	53:DU:5:LYS:O	2.31	0.48
54:DV:5:VAL:O	54:DV:11:GLN:HA	2.13	0.48
55:DW:72:LYS:HG3	55:DW:108:GLY:HA3	1.94	0.48
57:DY:95:LYS:HE3	57:DY:100:ALA:CB	2.43	0.48
58:DZ:60:GLU:HA	58:DZ:66:SER:HA	1.96	0.48
1:AA:80:G:H3'	1:AA:81:U:C5'	2.42	0.48
1:AA:697:U:O4'	1:AA:786:G:H4'	2.13	0.48
1:AA:1202:G:N3	14:AN:42:ILE:HG21	2.29	0.48
1:AA:1480:G:H2'	1:AA:1481:U:O4'	2.14	0.48
2:AB:92:TYR:CD1	2:AB:92:TYR:C	2.87	0.48
2:AB:162:ILE:CG2	2:AB:184:VAL:HG22	2.43	0.48
4:AD:200:GLU:HG2	4:AD:201:GLN:H	1.78	0.48
6:AF:5:GLU:HA	6:AF:63:TYR:O	2.13	0.48
8:AH:36:LEU:O	8:AH:38:ILE:N	2.46	0.48
16:AP:12:LYS:O	16:AP:14:ASN:N	2.47	0.48
18:AR:35:ARG:O	18:AR:37:VAL:N	2.45	0.48
18:AR:37:VAL:CG1	18:AR:78:LEU:HB3	2.42	0.48
19:AS:6:LYS:H	19:AS:6:LYS:CD	2.20	0.48
19:AS:13:ASP:C	19:AS:15:LEU:H	2.16	0.48
25:AZ:136:ASN:CG	25:AZ:137:LYS:N	2.66	0.48
25:AZ:316:PHE:HA	25:AZ:404:LEU:H	1.78	0.48
27:B1:63:ALA:O	27:B1:64:ALA:C	2.51	0.48
32:B6:39:TYR:O	32:B6:47:THR:O	2.31	0.48
34:B8:28:GLY:C	34:B8:30:ARG:H	2.17	0.48
36:BA:115:C:O2'	36:BA:116:C:H5'	2.14	0.48
36:BA:269:U:O2	36:BA:269:U:C2'	2.55	0.48
36:BA:996:A:C5'	53:BU:94:ASN:HB2	2.40	0.48
36:BA:1217:C:OP2	53:BU:15:LYS:NZ	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1222:C:C3'	36:BA:1223:G:H5''	2.43	0.48
36:BA:1398:C:H2'	36:BA:1399:C:C6	2.48	0.48
36:BA:1764:G:C6	36:BA:1989:G:C2	3.00	0.48
36:BA:1877:A:H3'	36:BA:1878:G:O4'	2.13	0.48
36:BA:2620:C:H2'	36:BA:2621:A:O4'	2.14	0.48
36:BA:2784:C:O2'	40:BE:37:ARG:NH1	2.46	0.48
37:BB:37:C:N4	37:BB:49:C:H1'	2.27	0.48
38:BC:130:ILE:C	38:BC:132:GLY:H	2.16	0.48
39:BD:44:ASN:CB	39:BD:48:ARG:O	2.61	0.48
39:BD:145:VAL:HG12	39:BD:146:GLU:O	2.13	0.48
39:BD:259:THR:O	39:BD:260:ARG:C	2.50	0.48
40:BE:199:ARG:NH1	40:BE:199:ARG:CB	2.77	0.48
42:BG:69:ALA:O	42:BG:90:LEU:HD12	2.13	0.48
42:BG:107:LEU:HD11	42:BG:178:PHE:HE1	1.78	0.48
43:BH:98:LEU:CB	43:BH:125:VAL:HG21	2.43	0.48
45:BK:73:UNK:O	45:BK:74:UNK:C	2.61	0.48
46:BN:6:PRO:HB3	46:BN:41:ASP:OD1	2.14	0.48
46:BN:68:GLU:HA	46:BN:86:PRO:HB2	1.94	0.48
48:BP:56:SER:O	48:BP:57:THR:O	2.32	0.48
48:BP:126:VAL:HG12	48:BP:148:LEU:HD11	1.96	0.48
50:BR:24:GLN:C	50:BR:26:LYS:N	2.64	0.48
50:BR:25:ALA:O	50:BR:29:LEU:HB2	2.14	0.48
52:BT:19:LEU:CD1	52:BT:78:LEU:HD22	2.43	0.48
52:BT:33:LYS:HE2	52:BT:43:GLN:HE21	1.79	0.48
54:BV:59:ALA:HA	54:BV:95:LEU:O	2.12	0.48
56:BX:54:VAL:HG12	56:BX:55:ASN:N	2.28	0.48
58:BZ:15:PRO:HA	58:BZ:18:LEU:CD2	2.44	0.48
58:BZ:57:ILE:O	58:BZ:69:THR:N	2.43	0.48
58:BZ:145:GLU:O	58:BZ:174:VAL:HG21	2.13	0.48
58:BZ:166:SER:OG	58:BZ:167:PRO:HA	2.13	0.48
1:CA:311:C:HO2'	1:CA:312:C:H5'	1.79	0.48
1:CA:881:G:H2'	1:CA:882:C:C6	2.48	0.48
1:CA:1088:G:H2'	1:CA:1089:G:C8	2.49	0.48
1:CA:1158:C:O2	1:CA:1158:C:C2'	2.61	0.48
1:CA:1160:G:O6	1:CA:1181:G:C6	2.66	0.48
1:CA:1452:C:H5''	1:CA:1456:G:OP1	2.12	0.48
3:CC:92:ALA:HB2	3:CC:99:VAL:CG2	2.43	0.48
4:CD:100:ARG:HG3	4:CD:100:ARG:NH1	2.27	0.48
5:CE:72:GLN:OE1	5:CE:77:PRO:HA	2.13	0.48
8:CH:85:ARG:HG3	8:CH:85:ARG:NH1	2.28	0.48
10:CJ:24:VAL:C	10:CJ:26:ALA:N	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:40:LEU:N	10:CJ:40:LEU:CD2	2.76	0.48
18:CR:40:LEU:O	18:CR:42:ARG:N	2.47	0.48
20:CT:26:ASN:HB3	20:CT:71:THR:OG1	2.13	0.48
25:CZ:145:GLU:O	25:CZ:146:LEU:C	2.52	0.48
28:D2:61:LEU:O	28:D2:64:LEU:N	2.46	0.48
28:D2:68:ARG:CZ	28:D2:72:ALA:HB1	2.43	0.48
29:D3:8:LEU:HA	29:D3:54:VAL:HG22	1.96	0.48
30:D4:8:LYS:HG2	30:D4:9:LEU:O	2.14	0.48
31:D5:2:ALA:CA	36:DA:2015:A:H1'	2.42	0.48
32:D6:15:GLU:HG2	32:D6:18:ARG:NH1	2.28	0.48
32:D6:35:GLU:HB3	32:D6:51:GLU:CG	2.44	0.48
35:D9:13:LYS:O	35:D9:27:CYS:HA	2.12	0.48
36:DA:28:A:C2	53:DU:11:ARG:NH2	2.81	0.48
36:DA:141:A:H8	36:DA:1408:C:O2'	1.89	0.48
36:DA:271(J):C:C3'	36:DA:271(K):U:H5''	2.44	0.48
36:DA:344:G:HO2'	36:DA:345:A:H8	1.59	0.48
36:DA:603:A:C2	36:DA:655:A:N1	2.82	0.48
36:DA:970:C:H2'	36:DA:971:C:C6	2.49	0.48
36:DA:1173:G:H2'	36:DA:1175:U:C5	2.49	0.48
36:DA:1216:G:N2	36:DA:1217:C:H1'	2.28	0.48
36:DA:1323:U:H2'	36:DA:1324:G:H5'	1.95	0.48
36:DA:1961:C:H2'	36:DA:1962:C:O4'	2.14	0.48
36:DA:2679:A:O2'	36:DA:2680:C:H5'	2.14	0.48
36:DA:2732:G:H3'	36:DA:2733:A:C5'	2.43	0.48
38:DC:46:LYS:NZ	38:DC:168:THR:O	2.47	0.48
38:DC:53:ARG:HB3	38:DC:53:ARG:CZ	2.43	0.48
38:DC:104:LEU:O	38:DC:105:ASP:CB	2.61	0.48
38:DC:134:ARG:O	38:DC:135:GLY:C	2.51	0.48
39:DD:25:THR:O	39:DD:27:THR:HG22	2.13	0.48
40:DE:53:PRO:O	40:DE:74:PRO:HA	2.13	0.48
40:DE:102:VAL:HG12	40:DE:199:ARG:O	2.12	0.48
41:DF:61:GLY:O	41:DF:63:LYS:N	2.47	0.48
41:DF:170:LEU:HB3	41:DF:173:VAL:HG23	1.95	0.48
41:DF:205:ARG:HG2	41:DF:206:ILE:HD13	1.95	0.48
42:DG:5:VAL:O	42:DG:8:LYS:HB3	2.14	0.48
42:DG:17:PRO:O	42:DG:21:ARG:CB	2.61	0.48
43:DH:65:HIS:C	43:DH:67:LEU:N	2.66	0.48
43:DH:97:ARG:HE	43:DH:99:VAL:HG23	1.79	0.48
46:DN:35:ARG:O	46:DN:35:ARG:CG	2.60	0.48
50:DR:63:ARG:O	50:DR:66:VAL:HB	2.14	0.48
51:DS:13:ARG:HG2	51:DS:13:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:75:ILE:HA	57:DY:79:CYS:O	2.14	0.48
58:DZ:28:MET:CA	58:DZ:88:PHE:HB2	2.41	0.48
1:AA:15:G:H2'	1:AA:16:A:C8	2.48	0.48
1:AA:84:U:O2'	1:AA:88:A:H5'	2.14	0.48
1:AA:130:A:N3	1:AA:263:A:O2'	2.44	0.48
1:AA:407:G:H2'	1:AA:408:A:H8	1.74	0.48
1:AA:564:C:N3	17:AQ:31:LEU:HD11	2.29	0.48
1:AA:581:G:C6	1:AA:758:G:N7	2.82	0.48
1:AA:995:C:H42	1:AA:1046:A:H2'	1.78	0.48
1:AA:1109:C:H2'	1:AA:1110:A:H5'	1.95	0.48
1:AA:1160:G:H1	1:AA:1177:G:H22	1.62	0.48
1:AA:1392:G:N2	1:AA:1502:A:H8	2.10	0.48
2:AB:187:LEU:HD13	2:AB:205:ASP:HA	1.95	0.48
3:AC:34:LEU:HD21	3:AC:38:ARG:HE	1.78	0.48
3:AC:186:PHE:HD1	3:AC:198:VAL:O	1.95	0.48
6:AF:43:LEU:H	6:AF:43:LEU:CD2	2.18	0.48
7:AG:105:VAL:HG12	7:AG:109:ASN:ND2	2.28	0.48
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	2.13	0.48
14:AN:4:LYS:O	14:AN:7:ILE:CG1	2.55	0.48
16:AP:5:ARG:NH2	16:AP:24:ALA:O	2.46	0.48
24:AY:57:G:OP2	24:AY:57:G:H3'	2.12	0.48
25:AZ:19:HIS:HB2	25:AZ:116:THR:OG1	2.13	0.48
25:AZ:129:PRO:O	25:AZ:130:TYR:HB2	2.14	0.48
25:AZ:219:LYS:HB2	25:AZ:244:ARG:HB2	1.94	0.48
27:B1:7:ILE:CG2	27:B1:66:HIS:HB3	2.39	0.48
27:B1:80:LEU:HD23	27:B1:81:LYS:N	2.27	0.48
27:B1:81:LYS:O	27:B1:82:LEU:HD12	2.14	0.48
30:B4:9:LEU:O	30:B4:10:VAL:HG12	2.13	0.48
31:B5:2:ALA:HA	36:BA:2015:A:H1'	1.94	0.48
33:B7:31:LEU:C	33:B7:33:ARG:N	2.67	0.48
34:B8:2:PRO:N	36:BA:667:U:O2	2.47	0.48
35:B9:1:MET:SD	36:BA:2477:C:C3'	3.01	0.48
36:BA:71:A:O2'	36:BA:72:U:OP2	2.27	0.48
36:BA:242:G:H22	36:BA:255:A:P	2.36	0.48
36:BA:271(C):C:O2'	36:BA:271(D):G:H5'	2.13	0.48
36:BA:318:C:C2'	36:BA:319:C:H5'	2.43	0.48
36:BA:604:G:C6	36:BA:625:G:C2	3.01	0.48
36:BA:631:A:H2	36:BA:2415:G:N3	2.10	0.48
36:BA:642:G:H8	36:BA:642:G:O5'	1.97	0.48
36:BA:1019:U:H3	36:BA:1142(A):A:N6	2.09	0.48
36:BA:1087:G:H8	36:BA:1088:A:H4'	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1603:A:H5'	36:BA:1603:A:C8	2.39	0.48
36:BA:1664:A:H61	36:BA:1996:C:N4	2.10	0.48
36:BA:1826:G:H4'	39:BD:242:ARG:NE	2.27	0.48
36:BA:2050:C:H2'	36:BA:2051:A:O4'	2.13	0.48
36:BA:2158:A:H4'	36:BA:2159:G:OP1	2.12	0.48
36:BA:2587:A:O2'	36:BA:2588:G:H5'	2.13	0.48
36:BA:2837:G:H8	36:BA:2837:G:O5'	1.97	0.48
39:BD:166:GLN:NE2	39:BD:166:GLN:CA	2.70	0.48
40:BE:55:ASN:ND2	40:BE:75:VAL:CG2	2.74	0.48
40:BE:128:SER:OG	40:BE:129:HIS:N	2.44	0.48
40:BE:179:GLU:O	40:BE:179:GLU:HG3	2.13	0.48
41:BF:128:ALA:O	41:BF:129:PHE:CG	2.67	0.48
42:BG:51:ARG:NH1	42:BG:53:LEU:HD21	2.29	0.48
46:BN:24:GLY:H	46:BN:27:ALA:N	1.98	0.48
49:BQ:58:PHE:N	49:BQ:58:PHE:CD1	2.80	0.48
49:BQ:78:PRO:O	49:BQ:79:LEU:C	2.52	0.48
54:BV:43:GLU:O	54:BV:44:LYS:HB2	2.12	0.48
54:BV:96:ILE:HD13	54:BV:96:ILE:N	2.28	0.48
55:BW:12:ILE:CD1	55:BW:42:ARG:HH12	2.23	0.48
57:BY:81:LYS:HZ2	57:BY:99:CYS:HB2	1.75	0.48
58:BZ:163:LEU:CD1	58:BZ:165:VAL:HG23	2.42	0.48
1:CA:526:C:H2'	1:CA:527:G:C4'	2.44	0.48
1:CA:542:G:N2	1:CA:543:C:C2	2.82	0.48
1:CA:642:A:O2'	1:CA:643:C:H5'	2.13	0.48
1:CA:769:G:N1	1:CA:811:C:O2	2.46	0.48
1:CA:1034:G:N2	1:CA:1035:A:C6	2.81	0.48
1:CA:1072:G:H2'	1:CA:1073:U:H6	1.75	0.48
1:CA:1117:G:O2'	9:CI:104:ARG:HD3	2.14	0.48
1:CA:1147:C:C2'	9:CI:16:ARG:HD3	2.43	0.48
1:CA:1152:A:O2'	1:CA:1153:C:C5'	2.59	0.48
1:CA:1204:A:H2'	1:CA:1205:U:O4'	2.12	0.48
2:CB:61:LEU:HA	2:CB:64:ARG:CZ	2.43	0.48
2:CB:61:LEU:HA	2:CB:64:ARG:HE	1.77	0.48
3:CC:182:ILE:HA	3:CC:202:ILE:O	2.13	0.48
5:CE:73:ASN:HD22	5:CE:73:ASN:HA	1.53	0.48
8:CH:113:SER:O	8:CH:131:GLY:HA3	2.13	0.48
12:CL:32:PHE:CD1	12:CL:86:ARG:HA	2.48	0.48
12:CL:32:PHE:HD1	12:CL:86:ARG:HA	1.79	0.48
13:CM:91:ARG:HD3	13:CM:96:LEU:HB2	1.96	0.48
13:CM:120:LYS:HA	13:CM:120:LYS:HE3	1.94	0.48
15:CO:18:PHE:O	15:CO:19:PRO:C	2.50	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:64:ARG:NH2	36:DA:715:G:OP1	2.46	0.48
20:CT:12:ALA:O	20:CT:15:ARG:N	2.46	0.48
23:CX:19:U:H2'	23:CX:20:U:C6	2.48	0.48
25:CZ:138:VAL:HG23	25:CZ:174:SER:N	2.28	0.48
25:CZ:208:GLU:O	25:CZ:209:TYR:HB3	2.14	0.48
25:CZ:383:GLY:H	25:CZ:400:VAL:HB	1.79	0.48
27:D1:46:LEU:O	27:D1:47:GLN:NE2	2.47	0.48
27:D1:69:LYS:O	27:D1:72:GLU:N	2.47	0.48
27:D1:82:LEU:C	27:D1:83:GLU:CG	2.81	0.48
28:D2:10:LEU:O	28:D2:10:LEU:HD23	2.13	0.48
29:D3:10:LYS:HB3	29:D3:53:LEU:HD22	1.95	0.48
29:D3:50:VAL:HA	29:D3:52:HIS:CE1	2.48	0.48
31:D5:52:TYR:HE2	36:DA:2884:U:O2	1.96	0.48
32:D6:28:ARG:O	32:D6:29:ASN:C	2.52	0.48
33:D7:11:LYS:CE	36:DA:686:G:H5''	2.44	0.48
36:DA:48:G:N2	36:DA:177:G:H21	2.12	0.48
36:DA:141:A:N6	36:DA:142:A:H62	2.12	0.48
36:DA:185:U:H2'	36:DA:186:G:H8	1.78	0.48
36:DA:225:A:C2	36:DA:231:C:C2	3.02	0.48
36:DA:242:G:H22	36:DA:255:A:P	2.36	0.48
36:DA:272(B):G:H1	36:DA:366:C:N4	2.10	0.48
36:DA:684:G:H2'	36:DA:774:A:H61	1.78	0.48
36:DA:993:G:H4'	54:DV:70:ILE:HD12	1.95	0.48
36:DA:1202:C:O5'	36:DA:1202:C:H6	1.95	0.48
36:DA:1217:C:OP2	53:DU:15:LYS:NZ	2.45	0.48
36:DA:1221:C:C2'	36:DA:1221(A):C:H6	2.26	0.48
36:DA:1427:A:N6	36:DA:1571:A:OP2	2.47	0.48
36:DA:1503:U:H2'	36:DA:1504:C:C5	2.48	0.48
36:DA:1542:A:H3'	36:DA:1542:A:C8	2.48	0.48
36:DA:1553:A:N6	36:DA:1555:G:H1'	2.28	0.48
36:DA:1614:A:N6	55:DW:92:ARG:O	2.47	0.48
36:DA:1666:G:H8	36:DA:1666:G:H5'	1.78	0.48
36:DA:1668:A:C2	36:DA:1670:C:N3	2.82	0.48
36:DA:1701:A:H8	36:DA:1701:A:H5''	1.79	0.48
36:DA:2567:G:H2'	36:DA:2568:C:C6	2.49	0.48
36:DA:2646:C:H2'	36:DA:2647:U:O4'	2.14	0.48
36:DA:2885:C:C2	36:DA:2886:G:H1'	2.48	0.48
37:DB:105:A:H3'	37:DB:106:G:C8	2.49	0.48
39:DD:121:PRO:HB3	39:DD:135:PHE:CE2	2.48	0.48
40:DE:11:MET:HB3	40:DE:24:THR:HA	1.96	0.48
40:DE:131:ALA:CB	40:DE:134:ILE:HD11	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:39:ILE:CG2	42:DG:157:ILE:HG23	2.44	0.48
42:DG:77:ILE:HG22	42:DG:80:PHE:N	2.29	0.48
47:DO:2:ILE:HD12	47:DO:6:THR:HG21	1.95	0.48
48:DP:23:PRO:HG2	48:DP:33:ARG:HG3	1.96	0.48
49:DQ:52:VAL:O	49:DQ:54:MET:N	2.46	0.48
50:DR:28:LEU:HB2	50:DR:34:ILE:HG13	1.95	0.48
51:DS:68:GLN:C	51:DS:70:GLY:N	2.67	0.48
51:DS:89:ARG:HG3	51:DS:92:TYR:CB	2.42	0.48
51:DS:98:VAL:HG12	51:DS:100:ALA:HB2	1.96	0.48
52:DT:23:ARG:O	52:DT:24:PRO:C	2.52	0.48
58:DZ:58:VAL:HG13	58:DZ:67:LEU:C	2.34	0.48
1:AA:365:U:O5'	1:AA:365:U:O2	2.31	0.48
1:AA:624:C:H2'	1:AA:625:G:C8	2.43	0.48
1:AA:646:U:H2'	1:AA:647:C:C6	2.48	0.48
1:AA:692:U:H3	11:AK:53:SER:HB3	1.78	0.48
1:AA:711:G:O2'	1:AA:712:A:H5'	2.14	0.48
1:AA:1115:C:H2'	1:AA:1116:C:H6	1.78	0.48
1:AA:1285:A:O2'	1:AA:1286:A:P	2.71	0.48
1:AA:1381:U:H5	1:AA:1382:C:C4	2.31	0.48
1:AA:1442(B):A:C2	52:BT:118:ARG:NH2	2.81	0.48
1:AA:1483:A:H3'	1:AA:1484:C:H6	1.79	0.48
4:AD:119:GLN:O	4:AD:123:HIS:CD2	2.67	0.48
9:AI:28:VAL:O	9:AI:29:ASN:C	2.49	0.48
11:AK:65:ALA:HB1	11:AK:98:LEU:HD21	1.94	0.48
15:AO:32:LEU:O	15:AO:35:ARG:HB2	2.13	0.48
16:AP:7:ALA:O	16:AP:17:TYR:HA	2.13	0.48
20:AT:12:ALA:O	20:AT:15:ARG:N	2.47	0.48
22:AV:5:G:H2'	22:AV:6:G:H8	1.75	0.48
22:AW:19:G:H4'	22:AW:20:U:OP2	2.14	0.48
24:AY:64:C:C4'	25:AZ:391:GLY:HA2	2.44	0.48
25:AZ:314:THR:O	25:AZ:373:GLU:HA	2.13	0.48
26:B0:19:LYS:NZ	26:B0:21:LEU:HD21	2.28	0.48
31:B5:36:CYS:C	31:B5:38:ALA:H	2.17	0.48
31:B5:44:THR:CG2	50:BR:101:ALA:HB2	2.40	0.48
33:B7:8:ASN:HB3	33:B7:11:LYS:HB3	1.94	0.48
33:B7:11:LYS:HG2	36:BA:686:G:C4	2.49	0.48
33:B7:25:PRO:N	33:B7:28:ARG:NH2	2.62	0.48
33:B7:44:PRO:O	33:B7:45:ALA:O	2.32	0.48
34:B8:61:LEU:C	34:B8:63:PRO:HD2	2.34	0.48
36:BA:519:U:H2'	36:BA:520:G:C8	2.48	0.48
36:BA:605:C:OP1	41:BF:104:LYS:NZ	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:689:A:H2'	36:BA:690:G:H8	1.79	0.48
36:BA:987:G:H2'	36:BA:988:A:O4'	2.13	0.48
36:BA:1190:G:C5'	48:BP:35:HIS:H	2.27	0.48
36:BA:1200:C:C2	36:BA:1246:A:C2	3.00	0.48
36:BA:1344:G:H22	36:BA:1404:C:H1'	1.77	0.48
36:BA:1809:A:C6	36:BA:1810:A:C6	3.02	0.48
36:BA:2259:G:C2	36:BA:2282:G:C6	3.02	0.48
36:BA:2391:G:O6	36:BA:2425:A:H8	1.97	0.48
36:BA:2498:C:O2'	36:BA:2499:C:C5'	2.57	0.48
36:BA:2520:C:C6	36:BA:2567:G:H1'	2.49	0.48
36:BA:2700:C:O2'	36:BA:2701:C:H5'	2.13	0.48
36:BA:2704:C:H2'	36:BA:2705:A:O4'	2.14	0.48
38:BC:151:GLU:HA	38:BC:154:ARG:CD	2.44	0.48
39:BD:4:LYS:HZ2	39:BD:20:ASP:HA	1.79	0.48
39:BD:11:PRO:O	39:BD:13:ARG:N	2.47	0.48
41:BF:111:ALA:HA	41:BF:114:VAL:HB	1.94	0.48
41:BF:126:VAL:HG21	41:BF:129:PHE:CZ	2.48	0.48
42:BG:60:LEU:CD1	42:BG:92:VAL:HG11	2.43	0.48
43:BH:83:TYR:O	43:BH:84:SER:C	2.52	0.48
46:BN:25:ARG:HG2	46:BN:25:ARG:HH11	1.79	0.48
46:BN:67:LEU:O	46:BN:68:GLU:CB	2.61	0.48
48:BP:52:GLU:CG	48:BP:53:GLY:H	2.27	0.48
48:BP:84:ASN:ND2	48:BP:116:GLY:HA3	2.29	0.48
51:BS:15:ARG:O	51:BS:18:ILE:HG13	2.14	0.48
51:BS:53:SER:O	51:BS:56:LEU:HB3	2.13	0.48
51:BS:98:VAL:HG12	51:BS:100:ALA:N	2.25	0.48
53:BU:102:GLU:HB3	53:BU:105:VAL:HB	1.93	0.48
56:BX:8:ILE:HD11	56:BX:43:VAL:CG2	2.42	0.48
57:BY:81:LYS:HG3	57:BY:97:ARG:HG3	1.96	0.48
58:BZ:17:ALA:HA	58:BZ:20:ARG:CG	2.44	0.48
1:CA:9:G:H1	1:CA:25:C:N4	2.12	0.48
1:CA:18:C:C5'	5:CE:127:ASN:ND2	2.71	0.48
1:CA:135:C:H2'	1:CA:136:C:H5'	1.96	0.48
1:CA:303:A:OP1	12:CL:17:LYS:HE3	2.14	0.48
1:CA:367:U:H4'	25:CZ:291:ARG:HD2	1.95	0.48
1:CA:472:A:O2'	16:CP:81:ARG:HA	2.13	0.48
1:CA:1102:A:C4	1:CA:1103:C:C5	3.02	0.48
1:CA:1118:C:OP1	9:CI:104:ARG:NH1	2.46	0.48
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.49	0.48
1:CA:1288:A:O2'	1:CA:1289:A:H5'	2.14	0.48
1:CA:1367:C:H5'	10:CJ:60:ARG:CZ	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:219:VAL:O	2:CB:223:ILE:HG13	2.13	0.48
3:CC:48:TYR:C	3:CC:50:ALA:N	2.66	0.48
4:CD:9:CYS:SG	4:CD:32:ALA:HB3	2.53	0.48
5:CE:72:GLN:O	5:CE:75:THR:HG22	2.13	0.48
6:CF:15:ASP:C	6:CF:17:SER:H	2.17	0.48
6:CF:79:LEU:O	6:CF:81:ILE:N	2.47	0.48
15:CO:27:VAL:O	15:CO:28:GLN:C	2.52	0.48
20:CT:19:SER:O	20:CT:20:LEU:C	2.51	0.48
20:CT:93:GLU:C	20:CT:95:ALA:H	2.16	0.48
25:CZ:140:MET:HG3	62:CZ:501:GDP:HN21	1.77	0.48
25:CZ:286:VAL:HG23	25:CZ:287:GLY:N	2.27	0.48
26:D0:24:LYS:N	26:D0:37:LEU:O	2.43	0.48
28:D2:46:GLN:O	28:D2:50:ILE:CD1	2.62	0.48
30:D4:33:VAL:CG1	30:D4:34:GLU:N	2.77	0.48
36:DA:121:G:H4'	36:DA:149:A:H5'	1.95	0.48
36:DA:222:A:H2	36:DA:233:A:O3'	1.96	0.48
36:DA:321:G:C1'	41:DF:168:ARG:HH21	2.27	0.48
36:DA:1120:G:H2'	36:DA:1121:C:H6	1.77	0.48
36:DA:1714:G:H2'	36:DA:1717:G:C8	2.49	0.48
36:DA:1720:U:C3'	36:DA:1721:G:H5''	2.44	0.48
36:DA:2074:U:H2'	36:DA:2075:U:C5	2.48	0.48
36:DA:2107:C:H2'	36:DA:2108:C:C6	2.49	0.48
36:DA:2128:C:O2'	36:DA:2129:C:H6	1.97	0.48
36:DA:2170:A:H5''	38:DC:134:ARG:NE	2.27	0.48
36:DA:2208:A:N3	36:DA:2219:G:C6	2.82	0.48
36:DA:2485:G:C5'	49:DQ:46:GLN:HE21	2.27	0.48
36:DA:2488:A:O2'	36:DA:2489:G:H5'	2.14	0.48
36:DA:2758:A:O2'	36:DA:2759:G:H8	1.97	0.48
38:DC:68:LEU:HD11	38:DC:161:ILE:HG22	1.95	0.48
39:DD:131:LEU:HA	39:DD:190:TYR:CE2	2.48	0.48
39:DD:137:PRO:HB2	39:DD:140:THR:HG23	1.95	0.48
40:DE:82:ARG:HG3	40:DE:83:ASP:H	1.77	0.48
42:DG:91:ARG:CG	42:DG:92:VAL:N	2.77	0.48
43:DH:46:GLU:HB3	43:DH:50:VAL:CG1	2.44	0.48
46:DN:89:LYS:C	46:DN:93:THR:HG22	2.34	0.48
48:DP:78:PRO:HB3	48:DP:111:ARG:NH2	2.29	0.48
48:DP:85:LEU:O	48:DP:89:ALA:HB2	2.14	0.48
53:DU:71:GLN:HG2	53:DU:71:GLN:O	2.14	0.48
56:DX:12:VAL:HA	56:DX:27:THR:O	2.13	0.48
58:DZ:17:ALA:C	58:DZ:20:ARG:HG2	2.34	0.48
58:DZ:153:SER:HB3	58:DZ:167:PRO:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:182:U:N3	1:AA:183:G:H1'	2.28	0.48
1:AA:1147:C:C2'	9:AI:16:ARG:HD3	2.42	0.48
1:AA:1439:C:N3	1:AA:1463:C:N3	2.62	0.48
1:AA:1526:G:C4	1:AA:1527:C:C5	3.02	0.48
2:AB:175:ARG:O	2:AB:176:GLU:C	2.52	0.48
3:AC:47:LEU:HB3	3:AC:52:LEU:HD22	1.96	0.48
4:AD:12:CYS:SG	4:AD:31:CYS:SG	3.12	0.48
4:AD:135:LEU:HD13	4:AD:135:LEU:N	2.28	0.48
7:AG:112:PRO:HG2	7:AG:112:PRO:O	2.13	0.48
8:AH:17:THR:C	8:AH:78:GLN:HE22	2.17	0.48
8:AH:38:ILE:HA	8:AH:41:ARG:HB3	1.96	0.48
9:AI:4:TYR:CD2	9:AI:88:TYR:HB2	2.48	0.48
12:AL:7:ILE:O	12:AL:10:LEU:N	2.41	0.48
20:AT:71:THR:HG22	20:AT:72:LEU:H	1.79	0.48
25:AZ:32:THR:HA	25:AZ:70:TYR:HB3	1.95	0.48
25:AZ:118:GLU:C	25:AZ:120:ILE:N	2.67	0.48
26:B0:23:VAL:HA	26:B0:38:VAL:HG13	1.95	0.48
27:B1:44:PRO:HA	36:BA:396:G:O3'	2.14	0.48
32:B6:15:GLU:HG2	32:B6:18:ARG:NH1	2.29	0.48
32:B6:38:LYS:HA	32:B6:48:VAL:HA	1.94	0.48
33:B7:25:PRO:N	33:B7:28:ARG:HH21	2.12	0.48
35:B9:30:PRO:C	35:B9:32:HIS:N	2.65	0.48
36:BA:568:U:H2'	36:BA:570:G:OP2	2.14	0.48
36:BA:733:G:C6	36:BA:761:A:C5	3.01	0.48
36:BA:792:G:O2'	36:BA:2440:C:N3	2.36	0.48
36:BA:927:G:N3	36:BA:927:G:H2'	2.29	0.48
36:BA:979:G:C2	36:BA:982:C:C5	3.01	0.48
36:BA:1044:G:C3'	36:BA:1045:A:H5''	2.43	0.48
36:BA:1047:G:H21	36:BA:1110:G:H2'	1.75	0.48
36:BA:1400:G:H2'	36:BA:1401:G:C8	2.49	0.48
36:BA:1769:G:H1'	36:BA:1958:C:H5''	1.96	0.48
36:BA:1930:G:H22	36:BA:1969:A:C5'	2.27	0.48
36:BA:2022:U:O2'	36:BA:2617:C:C5'	2.60	0.48
36:BA:2107:C:H2'	36:BA:2108:C:C6	2.49	0.48
36:BA:2241:A:H2'	36:BA:2242:G:C8	2.48	0.48
36:BA:2312:U:H2'	36:BA:2313:C:H5''	1.95	0.48
36:BA:2596:U:H3'	36:BA:2597:G:H8	1.78	0.48
36:BA:2796:U:C2'	36:BA:2799:C:H5'	2.42	0.48
36:BA:2831:G:OP1	36:BA:2834:G:H4'	2.13	0.48
38:BC:140:PRO:HG2	38:BC:141:LYS:H	1.79	0.48
40:BE:37:ARG:O	40:BE:45:THR:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:69:LYS:HD3	40:BE:89:ASP:HA	1.96	0.48
41:BF:132:VAL:CG2	41:BF:133:ASN:H	2.13	0.48
42:BG:62:LEU:H	42:BG:62:LEU:CD1	2.23	0.48
42:BG:169:ALA:O	42:BG:173:LEU:HG	2.14	0.48
43:BH:30:LYS:HE2	43:BH:30:LYS:CA	2.42	0.48
43:BH:123:PHE:N	43:BH:123:PHE:CD1	2.82	0.48
44:BJ:30:UNK:O	44:BJ:31:UNK:CB	2.62	0.48
47:BO:88:ASN:HD21	47:BO:92:GLU:CB	2.25	0.48
49:BQ:109:VAL:CG1	49:BQ:110:THR:H	2.26	0.48
52:BT:28:VAL:O	52:BT:29:ARG:CB	2.62	0.48
52:BT:48:ILE:O	52:BT:63:VAL:HG13	2.13	0.48
55:BW:59:VAL:HA	55:BW:63:ASP:HA	1.96	0.48
56:BX:26:TYR:O	56:BX:80:ILE:HA	2.14	0.48
1:CA:27:G:H2'	1:CA:28:G:C8	2.49	0.48
1:CA:148:G:H2'	1:CA:149:A:C8	2.49	0.48
1:CA:269:C:H2'	1:CA:270:A:H8	1.74	0.48
1:CA:692:U:O4	11:CK:53:SER:HA	2.14	0.48
1:CA:756:C:O2'	1:CA:757:U:H5'	2.14	0.48
1:CA:763:G:H2'	1:CA:764:C:H6	1.78	0.48
1:CA:1047:G:C2'	1:CA:1048:G:H5'	2.44	0.48
1:CA:1054:C:P	1:CA:1198:G:OP2	2.72	0.48
1:CA:1069:C:H2'	1:CA:1070:U:O5'	2.13	0.48
1:CA:1070:U:H2'	1:CA:1071:C:C6	2.39	0.48
1:CA:1236:A:H4'	1:CA:1304:G:H4'	1.94	0.48
2:CB:47:THR:HG22	2:CB:51:LEU:CD1	2.44	0.48
2:CB:185:ILE:HG22	2:CB:199:TYR:CB	2.42	0.48
5:CE:79:GLU:HB3	5:CE:92:LYS:HG3	1.94	0.48
6:CF:41:GLU:HB2	6:CF:62:TRP:HB3	1.96	0.48
7:CG:15:ASP:OD2	7:CG:16:LEU:N	2.47	0.48
7:CG:38:LEU:O	7:CG:42:ILE:HG13	2.13	0.48
7:CG:102:ARG:CG	7:CG:106:GLN:HE21	2.27	0.48
11:CK:125:PHE:C	11:CK:127:LYS:N	2.66	0.48
22:CW:53:G:N2	22:CW:54:U:H3	2.11	0.48
22:CW:55:U:H2'	22:CW:57:G:OP2	2.13	0.48
25:CZ:155:ARG:HG2	25:CZ:155:ARG:HH11	1.77	0.48
25:CZ:195:TRP:HA	25:CZ:198:LYS:HB2	1.94	0.48
25:CZ:316:PHE:HD2	25:CZ:400:VAL:HG13	1.78	0.48
26:D0:27:GLU:CG	26:D0:68:GLU:HA	2.43	0.48
26:D0:30:VAL:CG1	26:D0:66:VAL:HG23	2.44	0.48
27:D1:49:VAL:HG22	27:D1:50:ARG:N	2.28	0.48
27:D1:62:VAL:HG22	27:D1:63:ALA:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:176:G:C5	36:DA:177:G:C6	3.02	0.48
36:DA:183:C:C5'	36:DA:433:C:H4'	2.44	0.48
36:DA:629:G:H8	36:DA:629:G:H5'	1.78	0.48
36:DA:654(H):G:C2'	36:DA:654(I):C:H5'	2.44	0.48
36:DA:820:A:H1'	36:DA:943:U:O2'	2.14	0.48
36:DA:1174:A:OP1	36:DA:1175:U:H5''	2.14	0.48
36:DA:1317:A:C2	36:DA:1336:A:C2	3.02	0.48
36:DA:1328:G:N1	36:DA:1647:G:N2	2.62	0.48
36:DA:1358:G:O2'	36:DA:1359:A:H5''	2.13	0.48
36:DA:1502:C:H5'	36:DA:1503:U:OP2	2.14	0.48
36:DA:1826:G:H4'	39:DD:242:ARG:NE	2.28	0.48
36:DA:2061:G:H5''	36:DA:2503:A:N1	2.29	0.48
36:DA:2334:G:H21	51:DS:18:ILE:HG21	1.78	0.48
36:DA:2638:G:P	40:DE:82:ARG:HH21	2.36	0.48
36:DA:2651:C:O2'	36:DA:2652:C:H5'	2.14	0.48
39:DD:35:LYS:HZ2	39:DD:36:PRO:CD	2.24	0.48
39:DD:35:LYS:HB2	39:DD:104:TYR:CE1	2.49	0.48
40:DE:67:PHE:HD2	40:DE:68:ALA:H	1.61	0.48
42:DG:7:LEU:O	42:DG:11:TYR:HB2	2.13	0.48
45:DK:95:UNK:C	45:DK:97:UNK:N	2.77	0.48
47:DO:105:GLU:O	47:DO:109:LYS:HG2	2.13	0.48
47:DO:107:ARG:NH1	52:DT:35:LYS:HB2	2.29	0.48
48:DP:126:VAL:CA	48:DP:145:PRO:HB2	2.40	0.48
51:DS:28:VAL:HG12	51:DS:29:PHE:N	2.18	0.48
58:DZ:77:ASP:OD2	58:DZ:79:ARG:O	2.31	0.48
58:DZ:129:SER:HB2	58:DZ:131:ARG:HD3	1.95	0.48
1:AA:142:G:H1	1:AA:221:C:N4	2.10	0.48
1:AA:364:A:H2'	1:AA:365:U:O2	2.13	0.48
1:AA:404:U:H5'	4:AD:122:ARG:HD3	1.95	0.48
1:AA:625:G:H2'	1:AA:626:U:C6	2.49	0.48
1:AA:908:A:O2'	1:AA:909:A:H5'	2.13	0.48
1:AA:973:G:C1'	10:AJ:55:LYS:CE	2.92	0.48
1:AA:1124:G:H2'	1:AA:1145:C:N4	2.29	0.48
1:AA:1166:G:H1'	1:AA:1171:G:N2	2.29	0.48
1:AA:1298:C:H2'	7:AG:114:ARG:HH12	1.79	0.48
1:AA:1410:G:C6	1:AA:1491:G:O6	2.67	0.48
2:AB:72:GLY:HA2	2:AB:165:VAL:CG2	2.43	0.48
4:AD:88:VAL:HG12	4:AD:90:GLY:N	2.24	0.48
4:AD:92:VAL:O	4:AD:93:PHE:C	2.52	0.48
4:AD:188:LEU:O	4:AD:189:PRO:O	2.32	0.48
5:AE:20:GLN:NE2	5:AE:25:ARG:NH2	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:41:GLU:HB2	6:AF:62:TRP:HB3	1.96	0.48
7:AG:13:GLN:NE2	7:AG:14:PRO:HD2	2.29	0.48
7:AG:26:PHE:O	7:AG:27:ILE:C	2.52	0.48
10:AJ:24:VAL:C	10:AJ:26:ALA:N	2.65	0.48
12:AL:39:VAL:O	12:AL:56:ALA:HB1	2.14	0.48
13:AM:57:ARG:C	13:AM:59:TYR:N	2.66	0.48
13:AM:79:LYS:O	13:AM:82:MET:CG	2.61	0.48
14:AN:4:LYS:O	14:AN:7:ILE:N	2.42	0.48
17:AQ:53:LEU:HD23	17:AQ:53:LEU:C	2.34	0.48
19:AS:31:ILE:HG23	19:AS:31:ILE:O	2.14	0.48
20:AT:72:LEU:CD2	20:AT:76:ALA:HB1	2.35	0.48
22:AW:64:A:H2'	22:AW:65:G:H8	1.75	0.48
25:AZ:121:LEU:O	25:AZ:125:GLN:HG2	2.14	0.48
25:AZ:309:SER:O	25:AZ:310:ILE:HB	2.13	0.48
25:AZ:348:ASP:OD1	25:AZ:348:ASP:O	2.32	0.48
26:B0:48:GLY:N	26:B0:51:VAL:HB	2.29	0.48
30:B4:16:CYS:HA	30:B4:33:VAL:CG1	2.44	0.48
33:B7:11:LYS:HE3	33:B7:15:THR:HG21	1.95	0.48
35:B9:35:ARG:NH1	36:BA:2741:A:O3'	2.45	0.48
36:BA:204:A:OP1	36:BA:206:U:H1'	2.14	0.48
36:BA:316:C:H2'	36:BA:317:G:O5'	2.14	0.48
36:BA:1069:A:C1'	36:BA:1070:A:P	3.02	0.48
36:BA:1112:G:O2'	36:BA:1113:U:H5'	2.13	0.48
36:BA:1188:U:H5''	54:BV:79:VAL:HG11	1.96	0.48
36:BA:1344:G:C2	36:BA:1404:C:C2	3.02	0.48
36:BA:1567:A:H5'	39:BD:58:HIS:HD2	1.79	0.48
36:BA:1627:G:H2'	36:BA:1628:G:H8	1.78	0.48
36:BA:1668:A:H61	36:BA:1676:A:H61	1.62	0.48
36:BA:1701:A:H2'	36:BA:1702:G:H5'	1.96	0.48
36:BA:1811:G:H2'	36:BA:1812:A:H8	1.79	0.48
36:BA:2262:U:C2	36:BA:2263:C:C5	3.01	0.48
36:BA:2646:C:H2'	36:BA:2647:U:O4'	2.14	0.48
39:BD:68:LYS:HB2	39:BD:70:TRP:CZ2	2.49	0.48
39:BD:92:ILE:HD13	39:BD:92:ILE:H	1.79	0.48
40:BE:55:ASN:O	40:BE:56:PRO:C	2.52	0.48
41:BF:192:LEU:HD23	41:BF:192:LEU:C	2.34	0.48
43:BH:65:HIS:HE1	43:BH:69:ARG:CZ	2.26	0.48
46:BN:18:ALA:CB	46:BN:26:LEU:HD22	2.43	0.48
46:BN:116:LEU:O	46:BN:119:ARG:HB2	2.14	0.48
48:BP:66:GLY:O	48:BP:67:MET:HB2	2.14	0.48
49:BQ:141:GLN:NE2	58:BZ:72:ARG:HA	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:7:GLY:O	50:BR:8:ARG:HB2	2.13	0.48
51:BS:42:ASP:O	51:BS:43:GLU:HB3	2.13	0.48
56:BX:35:THR:CG2	56:BX:37:THR:HB	2.44	0.48
1:CA:130:A:C8	17:CQ:63:ARG:HG3	2.48	0.48
1:CA:977:A:H8	1:CA:982:U:O4	1.97	0.48
1:CA:1139:G:H4'	1:CA:1140:C:H6	1.79	0.48
1:CA:1226:C:N4	13:CM:104:ARG:HB2	2.28	0.48
1:CA:1499:A:C1'	1:CA:1520:G:C5'	2.92	0.48
2:CB:127:ILE:HG23	2:CB:135:GLN:NE2	2.29	0.48
2:CB:209:ARG:HH11	2:CB:239:VAL:HG21	1.79	0.48
3:CC:18:TRP:HB3	3:CC:20:SER:H	1.78	0.48
3:CC:120:VAL:HG12	3:CC:198:VAL:HG21	1.95	0.48
4:CD:88:VAL:HG12	4:CD:90:GLY:N	2.27	0.48
4:CD:188:LEU:O	4:CD:189:PRO:O	2.31	0.48
8:CH:112:LEU:N	8:CH:112:LEU:HD23	2.29	0.48
12:CL:76:ASN:O	12:CL:76:ASN:CG	2.52	0.48
13:CM:59:TYR:O	13:CM:63:THR:N	2.47	0.48
13:CM:66:LEU:HD12	13:CM:66:LEU:N	2.29	0.48
14:CN:18:VAL:O	14:CN:19:ARG:O	2.32	0.48
15:CO:34:LEU:HD12	15:CO:34:LEU:O	2.14	0.48
27:D1:27:GLU:O	27:D1:28:GLY:C	2.51	0.48
28:D2:4:SER:CA	28:D2:7:ARG:HD2	2.40	0.48
28:D2:64:LEU:O	28:D2:68:ARG:HB2	2.14	0.48
30:D4:4:GLY:N	30:D4:6:HIS:CE1	2.82	0.48
31:D5:2:ALA:HA	36:DA:2015:A:H1'	1.95	0.48
33:D7:19:ARG:HD3	36:DA:125:G:OP2	2.14	0.48
36:DA:272(B):G:H2'	36:DA:272(C):G:C8	2.45	0.48
36:DA:1216:G:N2	36:DA:1234:U:H1'	2.29	0.48
36:DA:1216:G:C2'	36:DA:1217:C:H5'	2.44	0.48
36:DA:1410:G:H2'	36:DA:1411:C:C6	2.49	0.48
36:DA:1453:U:OP1	50:DR:77:ARG:HD3	2.14	0.48
36:DA:1697:G:H3'	36:DA:1698:A:H5''	1.96	0.48
36:DA:1769:G:H1'	36:DA:1958:C:H5''	1.95	0.48
36:DA:2488:A:H2'	36:DA:2489:G:C8	2.48	0.48
36:DA:2677:G:O2'	36:DA:2678:C:H5'	2.13	0.48
36:DA:2691:C:H2'	36:DA:2692:C:C6	2.31	0.48
40:DE:52:LEU:HB3	40:DE:76:ARG:HB2	1.96	0.48
40:DE:96:PHE:HA	40:DE:100:GLU:OE1	2.13	0.48
40:DE:176:ILE:HG22	40:DE:178:GLU:HB3	1.95	0.48
40:DE:178:GLU:HG3	40:DE:179:GLU:H	1.79	0.48
41:DF:154:VAL:HG22	41:DF:191:ARG:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:17:PRO:O	42:DG:21:ARG:HB3	2.13	0.48
42:DG:119:GLY:HA3	42:DG:181:ARG:CB	2.44	0.48
43:DH:136:ILE:H	43:DH:136:ILE:CD1	2.26	0.48
46:DN:54:VAL:O	46:DN:122:VAL:HG13	2.14	0.48
46:DN:71:ILE:HA	46:DN:86:PRO:HA	1.95	0.48
49:DQ:27:VAL:O	49:DQ:28:ALA:HB3	2.14	0.48
51:DS:106:ARG:HH21	51:DS:109:GLY:N	2.11	0.48
52:DT:32:TYR:O	52:DT:41:ARG:O	2.31	0.48
53:DU:102:GLU:HB3	53:DU:105:VAL:CG2	2.44	0.48
57:DY:2:ARG:CD	57:DY:3:VAL:HG23	2.42	0.48
57:DY:13:VAL:CG1	57:DY:14:LEU:H	2.07	0.48
57:DY:68:HIS:ND1	57:DY:70:SER:HB3	2.29	0.48
58:DZ:59:LEU:O	58:DZ:66:SER:HA	2.14	0.48
1:AA:878:G:OP1	8:AH:90:GLY:HA3	2.14	0.48
1:AA:928:G:O2'	1:AA:929:G:H5'	2.13	0.48
1:AA:1056:U:H5'	3:AC:163:ALA:HB2	1.96	0.48
1:AA:1075:C:H4'	1:AA:1101:A:N6	2.29	0.48
2:AB:142:LEU:O	2:AB:143:GLU:C	2.52	0.48
3:AC:32:LEU:HD22	3:AC:59:ARG:NH2	2.29	0.48
3:AC:145:GLY:O	3:AC:146:ALA:O	2.31	0.48
4:AD:134:ASP:C	4:AD:135:LEU:HD13	2.34	0.48
8:AH:129:VAL:HG23	8:AH:130:GLY:N	2.28	0.48
18:AR:52:PRO:O	18:AR:53:ARG:C	2.52	0.48
18:AR:73:ALA:HB3	18:AR:79:LEU:HD12	1.96	0.48
22:AV:40:C:H4'	22:AW:36:A:H5''	1.95	0.48
24:AY:48:C:H4'	24:AY:49:G:H5''	1.95	0.48
25:AZ:136:ASN:O	25:AZ:137:LYS:HB2	2.13	0.48
26:B0:32:ARG:O	26:B0:35:ASN:OD1	2.32	0.48
32:B6:12:GLU:CD	32:B6:54:ILE:CG2	2.83	0.48
34:B8:13:ARG:HB3	48:BP:63:PRO:HA	1.96	0.48
34:B8:25:MET:CG	48:BP:64:LYS:HB2	2.34	0.48
36:BA:335:C:H2'	36:BA:336:C:C6	2.49	0.48
36:BA:784:A:C8	36:BA:792:G:C5	3.02	0.48
36:BA:817:C:H4'	36:BA:932:G:N1	2.29	0.48
36:BA:892:G:H2'	36:BA:893:C:C6	2.48	0.48
36:BA:953:A:H2'	36:BA:954:G:C8	2.46	0.48
36:BA:972:G:H8	36:BA:972:G:O5'	1.96	0.48
36:BA:1023:U:H1'	36:BA:1122:G:H5''	1.96	0.48
36:BA:1605:C:H2'	36:BA:1606:G:C5'	2.43	0.48
36:BA:1625:C:H2'	36:BA:1626:G:O4'	2.14	0.48
36:BA:1714:G:H2'	36:BA:1717:G:C8	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2443:C:C2'	36:BA:2444:G:H5'	2.43	0.48
36:BA:2880:C:O2	50:BR:91:GLN:O	2.32	0.48
37:BB:73:A:C2	37:BB:74:U:H1'	2.49	0.48
38:BC:103:ILE:O	38:BC:103:ILE:CG2	2.60	0.48
38:BC:113:VAL:CG2	38:BC:136:LEU:HD22	2.44	0.48
38:BC:134:ARG:O	38:BC:135:GLY:C	2.52	0.48
38:BC:177:LYS:O	38:BC:180:PHE:HD1	1.97	0.48
39:BD:70:TRP:CD1	39:BD:70:TRP:C	2.87	0.48
40:BE:95:ILE:HD13	40:BE:95:ILE:H	1.78	0.48
41:BF:168:ARG:HA	41:BF:175:THR:HG21	1.94	0.48
42:BG:18:GLU:OE1	42:BG:22:ARG:HG3	2.14	0.48
42:BG:67:LYS:HD3	42:BG:67:LYS:H	1.69	0.48
42:BG:97:ASP:N	42:BG:100:TRP:HD1	2.06	0.48
46:BN:2:LYS:HZ1	54:BV:12:TYR:CA	2.26	0.48
46:BN:83:LYS:CG	46:BN:84:LYS:H	2.20	0.48
48:BP:83:VAL:O	48:BP:115:LEU:HD23	2.14	0.48
48:BP:147:LEU:HG	48:BP:148:LEU:H	1.77	0.48
50:BR:67:LEU:HD13	50:BR:70:LEU:O	2.14	0.48
51:BS:12:PHE:N	51:BS:12:PHE:CD2	2.82	0.48
53:BU:10:ARG:O	53:BU:13:LYS:N	2.45	0.48
55:BW:76:VAL:CB	55:BW:103:ILE:HG23	2.44	0.48
57:BY:90:LEU:N	57:BY:90:LEU:HD23	2.29	0.48
58:BZ:82:ARG:NH1	58:BZ:83:PRO:O	2.46	0.48
1:CA:28:G:H1	1:CA:555:C:H42	1.61	0.48
1:CA:44:G:C2	1:CA:45:U:H1'	2.48	0.48
1:CA:68:G:H5'	1:CA:171:A:H1'	1.96	0.48
1:CA:142:G:H1	1:CA:221:C:N4	2.09	0.48
1:CA:246:A:C2	1:CA:282:A:C5	3.02	0.48
1:CA:276:G:O2'	17:CQ:68:ARG:NH1	2.47	0.48
1:CA:284:G:H2'	1:CA:285:G:H8	1.79	0.48
1:CA:294:U:H2'	1:CA:295:C:C6	2.49	0.48
1:CA:403:C:OP1	4:CD:136:PRO:HD2	2.13	0.48
1:CA:581:G:O6	1:CA:758:G:C8	2.67	0.48
1:CA:646:U:H2'	1:CA:647:C:C6	2.49	0.48
1:CA:712:A:C2	1:CA:713:G:C4	3.02	0.48
1:CA:859:A:C4	1:CA:860:A:C8	3.02	0.48
1:CA:967:C:H2'	1:CA:968:A:H8	1.76	0.48
1:CA:1084:G:OP1	1:CA:1086:U:C4	2.67	0.48
1:CA:1115:C:H2'	1:CA:1116:C:H6	1.79	0.48
1:CA:1128:C:H1'	1:CA:1146:A:H61	1.79	0.48
1:CA:1152:A:C4	1:CA:1153:C:C5	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:220:ASP:O	2:CB:223:ILE:N	2.47	0.48
6:CF:14:LEU:HD13	6:CF:15:ASP:N	2.29	0.48
7:CG:36:LYS:C	7:CG:39:ALA:HB3	2.34	0.48
9:CI:11:LYS:HG3	9:CI:108:VAL:HG13	1.95	0.48
12:CL:28:LYS:O	12:CL:30:ALA:N	2.47	0.48
15:CO:35:ARG:O	15:CO:38:ARG:HB2	2.14	0.48
16:CP:12:LYS:HG2	16:CP:13:HIS:CD2	2.48	0.48
18:CR:70:ILE:O	18:CR:71:LYS:C	2.52	0.48
25:CZ:320:VAL:HG12	25:CZ:321:TYR:H	1.78	0.48
31:D5:27:PRO:HG3	55:DW:23:LEU:CD1	2.34	0.48
36:DA:29:U:O2'	53:DU:8:VAL:HG23	2.13	0.48
36:DA:309:G:O3'	57:DY:18:GLY:CA	2.61	0.48
36:DA:517:C:H6	36:DA:517:C:O5'	1.97	0.48
36:DA:519:U:H2'	36:DA:520:G:H8	1.79	0.48
36:DA:525:U:O2'	36:DA:526:A:H5'	2.13	0.48
36:DA:606:U:H2'	36:DA:607:U:C4'	2.44	0.48
36:DA:764:A:C3'	36:DA:765:G:H5'	2.41	0.48
36:DA:848:G:H1'	36:DA:933:A:O2'	2.13	0.48
36:DA:866:A:C2	36:DA:914:C:C6	3.02	0.48
36:DA:1335:U:OP1	56:DX:65:ARG:NH2	2.46	0.48
36:DA:1337:G:H2'	36:DA:1338:G:H8	1.78	0.48
36:DA:1355:G:O6	36:DA:1377:G:N2	2.47	0.48
36:DA:1813:G:H4'	39:DD:44:ASN:O	2.13	0.48
36:DA:2713:A:H3'	36:DA:2714:G:C5'	2.44	0.48
36:DA:2850:A:C6	36:DA:2869:G:H5'	2.49	0.48
38:DC:117:PRO:HD3	38:DC:146:GLY:N	2.28	0.48
39:DD:11:PRO:O	39:DD:13:ARG:N	2.46	0.48
39:DD:70:TRP:HZ3	39:DD:146:GLU:OE2	1.97	0.48
39:DD:142:VAL:HG23	39:DD:192:THR:C	2.35	0.48
39:DD:158:ALA:O	39:DD:196:VAL:HG11	2.14	0.48
40:DE:2:LYS:O	40:DE:199:ARG:HA	2.14	0.48
40:DE:8:LYS:HB2	40:DE:196:VAL:HG11	1.96	0.48
41:DF:17:ARG:HG3	41:DF:17:ARG:NH1	2.28	0.48
41:DF:132:VAL:CG2	41:DF:133:ASN:H	2.12	0.48
42:DG:59:GLU:O	42:DG:63:ILE:HG12	2.14	0.48
46:DN:83:LYS:CG	46:DN:84:LYS:H	2.20	0.48
46:DN:114:ARG:O	46:DN:117:PHE:HB3	2.14	0.48
46:DN:131:GLN:NE2	46:DN:133:GLN:CA	2.76	0.48
47:DO:53:LYS:HD2	47:DO:53:LYS:N	2.29	0.48
48:DP:78:PRO:HB2	48:DP:111:ARG:NH2	2.29	0.48
49:DQ:90:VAL:HG12	49:DQ:91:GLU:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:23:ARG:HG2	52:DT:120:ARG:NH1	2.29	0.48
52:DT:111:ARG:HG3	52:DT:111:ARG:O	2.13	0.48
53:DU:32:PHE:O	53:DU:36:ARG:HB2	2.14	0.48
53:DU:68:ALA:HB1	53:DU:106:PHE:HE2	1.78	0.48
54:DV:59:ALA:HA	54:DV:95:LEU:O	2.14	0.48
55:DW:10:VAL:HB	55:DW:101:SER:O	2.14	0.48
56:DX:36:LYS:NZ	56:DX:55:ASN:HA	2.29	0.48
57:DY:27:VAL:HG12	57:DY:28:LYS:N	2.29	0.48
1:AA:18:C:C5'	5:AE:127:ASN:ND2	2.71	0.47
1:AA:285:G:O2'	1:AA:286:G:H5'	2.13	0.47
1:AA:353:A:H2'	1:AA:354:G:OP2	2.14	0.47
1:AA:403:C:O2'	1:AA:404:U:H5'	2.14	0.47
1:AA:541:G:H2'	1:AA:542:G:H8	1.79	0.47
1:AA:713:G:O2'	1:AA:714:G:H5'	2.14	0.47
1:AA:828:A:H4'	1:AA:828:A:OP1	2.14	0.47
1:AA:940:C:H2'	1:AA:941:G:C8	2.48	0.47
1:AA:1269:A:C2'	1:AA:1270:C:H5'	2.44	0.47
1:AA:1403:C:H1'	1:AA:1500:A:N1	2.29	0.47
1:AA:1472:U:H2'	1:AA:1473:A:O4'	2.14	0.47
5:AE:125:SER:OG	5:AE:126:ARG:N	2.46	0.47
7:AG:23:VAL:CG1	7:AG:43:PHE:CE2	2.96	0.47
8:AH:125:ARG:HG3	8:AH:125:ARG:HH11	1.78	0.47
10:AJ:49:VAL:O	10:AJ:49:VAL:CG1	2.61	0.47
11:AK:94:ALA:O	11:AK:95:ILE:C	2.53	0.47
11:AK:127:LYS:C	11:AK:129:SER:H	2.17	0.47
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.35	0.47
17:AQ:67:LYS:O	17:AQ:69:LYS:N	2.46	0.47
18:AR:45:SER:N	18:AR:51:LEU:HG	2.29	0.47
25:AZ:132:VAL:HG23	25:AZ:210:ILE:HD11	1.94	0.47
25:AZ:259:ALA:CB	25:AZ:260:PRO:HD2	2.28	0.47
26:B0:27:GLU:CG	26:B0:68:GLU:HA	2.44	0.47
29:B3:13:ILE:HD13	36:BA:989:G:C5	2.49	0.47
32:B6:53:LYS:HE2	32:B6:54:ILE:HA	1.96	0.47
33:B7:20:ALA:O	33:B7:23:ARG:N	2.45	0.47
33:B7:31:LEU:C	33:B7:33:ARG:H	2.18	0.47
34:B8:28:GLY:N	36:BA:2393:A:OP1	2.47	0.47
34:B8:52:LYS:N	34:B8:53:PRO:CD	2.77	0.47
35:B9:25:VAL:HB	35:B9:34:GLN:HB3	1.94	0.47
36:BA:88:G:N3	36:BA:88:G:H2'	2.28	0.47
36:BA:206:U:H2'	36:BA:207:A:C8	2.49	0.47
36:BA:479:A:O2'	36:BA:481:G:C5'	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:601:C:H5'	41:BF:108:LYS:HE3	1.96	0.47
36:BA:1119:C:H2'	36:BA:1120:G:C8	2.49	0.47
36:BA:1365:A:C6	36:BA:1366:A:C5	3.02	0.47
36:BA:1494:A:O2'	36:BA:1496:A:H2	1.97	0.47
36:BA:1516:C:H2'	36:BA:1517:G:C5'	2.27	0.47
36:BA:1862:G:N2	36:BA:1881:C:C2	2.82	0.47
36:BA:1980:G:O2'	36:BA:1982:C:OP2	2.32	0.47
36:BA:1988:C:C2'	36:BA:1989:G:H5'	2.44	0.47
36:BA:2222:G:C2	36:BA:2223:G:C8	3.02	0.47
36:BA:2283:C:C2'	36:BA:2284:C:H5'	2.44	0.47
36:BA:2649:U:H2'	36:BA:2650:U:C6	2.49	0.47
36:BA:2654:A:N3	36:BA:2656:U:C4	2.81	0.47
36:BA:2776:A:H4'	36:BA:2778:A:H5''	1.95	0.47
36:BA:2807:G:C3'	36:BA:2808:U:C5'	2.88	0.47
36:BA:2822:G:O6	50:BR:4:LEU:HB3	2.14	0.47
38:BC:42:GLU:HB3	38:BC:44:HIS:NE2	2.28	0.47
39:BD:96:HIS:CE1	39:BD:102:LYS:NZ	2.82	0.47
45:BK:99:UNK:O	45:BK:100:UNK:O	2.30	0.47
47:BO:79:PHE:CD2	52:BT:72:VAL:HG13	2.48	0.47
47:BO:104:ARG:CB	47:BO:104:ARG:CZ	2.91	0.47
48:BP:105:LEU:O	48:BP:106:LEU:CB	2.56	0.47
48:BP:108:LYS:HD2	48:BP:108:LYS:N	2.29	0.47
49:BQ:125:LEU:N	49:BQ:125:LEU:HD23	2.28	0.47
52:BT:133:GLU:O	52:BT:133:GLU:HG2	2.13	0.47
54:BV:38:LEU:O	54:BV:51:VAL:CG1	2.62	0.47
55:BW:64:MET:O	55:BW:109:GLU:HG2	2.14	0.47
58:BZ:100:VAL:HG11	58:BZ:137:ILE:HG12	1.95	0.47
1:CA:92:C:H2'	1:CA:93:G:C8	2.47	0.47
1:CA:1414:U:O2'	1:CA:1415:G:H5'	2.14	0.47
1:CA:1418:A:N3	36:DA:1959:G:H1'	2.29	0.47
2:CB:73:THR:O	2:CB:74:LYS:C	2.50	0.47
2:CB:87:ARG:HH21	2:CB:233:SER:H	1.60	0.47
2:CB:102:LEU:HD23	2:CB:182:ILE:HD13	1.96	0.47
2:CB:103:THR:OG1	2:CB:104:ASN:N	2.47	0.47
2:CB:142:LEU:O	2:CB:143:GLU:C	2.51	0.47
3:CC:47:LEU:HB3	3:CC:52:LEU:HD22	1.95	0.47
3:CC:130:VAL:O	3:CC:131:ARG:C	2.52	0.47
11:CK:105:VAL:O	11:CK:105:VAL:HG23	2.14	0.47
16:CP:20:VAL:HA	16:CP:36:ILE:HG13	1.95	0.47
22:CV:28:G:H2'	22:CV:29:G:H8	1.79	0.47
25:CZ:8:THR:OG1	25:CZ:9:LYS:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:126:VAL:HG13	63:CZ:502:KIR:C47	2.44	0.47
26:D0:69:PHE:CE2	26:D0:79:VAL:HG22	2.49	0.47
27:D1:18:ILE:CG2	27:D1:19:GLN:H	2.26	0.47
33:D7:11:LYS:O	33:D7:12:ARG:C	2.51	0.47
35:D9:31:LYS:C	35:D9:32:HIS:CD2	2.87	0.47
36:DA:83:G:O2'	36:DA:84:A:H8	1.92	0.47
36:DA:428:A:H5'	36:DA:429:A:OP2	2.14	0.47
36:DA:590:A:H2'	36:DA:591:C:C6	2.48	0.47
36:DA:1563:G:H2'	36:DA:1564:C:H6	1.79	0.47
36:DA:1705:G:C2'	36:DA:1706:U:H5'	2.44	0.47
36:DA:1863:G:C2	36:DA:1880:C:O2	2.67	0.47
36:DA:2009:G:O2'	36:DA:2010:G:H5'	2.13	0.47
36:DA:2123:G:H1'	38:DC:172:HIS:CB	2.44	0.47
36:DA:2133:G:H3'	36:DA:2133:G:H8	1.79	0.47
36:DA:2481:G:HO2'	36:DA:2482:G:P	2.37	0.47
36:DA:2620:C:H2'	36:DA:2621:A:O4'	2.14	0.47
37:DB:71:C:O2	37:DB:71:C:H2'	2.13	0.47
38:DC:6:ARG:HH11	38:DC:6:ARG:CG	2.25	0.47
39:DD:34:VAL:CG2	39:DD:35:LYS:H	2.22	0.47
39:DD:117:VAL:CG2	39:DD:118:VAL:N	2.77	0.47
39:DD:147:LEU:CG	39:DD:183:ARG:HH12	2.24	0.47
39:DD:209:ALA:O	39:DD:212:SER:HB2	2.14	0.47
39:DD:248:SER:HB2	39:DD:249:PRO:CD	2.42	0.47
41:DF:156:LEU:HD23	41:DF:167:ALA:HB2	1.96	0.47
42:DG:59:GLU:CD	42:DG:153:ARG:HH21	2.15	0.47
46:DN:39:ARG:HE	46:DN:41:ASP:HB3	1.79	0.47
46:DN:108:PRO:HG2	46:DN:113:GLY:HA3	1.95	0.47
47:DO:1:MET:HG3	47:DO:67:LYS:HG2	1.96	0.47
48:DP:146:VAL:CG2	48:DP:147:LEU:H	1.96	0.47
49:DQ:58:PHE:N	49:DQ:58:PHE:CD1	2.78	0.47
51:DS:27:SER:O	51:DS:28:VAL:HG22	2.14	0.47
52:DT:51:ARG:NE	52:DT:100:TYR:OH	2.47	0.47
52:DT:70:VAL:HG12	52:DT:71:GLY:O	2.14	0.47
53:DU:59:ARG:O	53:DU:60:LEU:C	2.52	0.47
55:DW:62:HIS:O	55:DW:63:ASP:C	2.52	0.47
58:DZ:127:LYS:O	58:DZ:128:VAL:CB	2.62	0.47
1:AA:136:C:H2'	1:AA:137:C:H6	1.80	0.47
1:AA:138:G:H2'	1:AA:139:G:C8	2.49	0.47
1:AA:522:C:C2'	1:AA:523:A:H8	2.27	0.47
1:AA:670:G:C2	1:AA:671:G:C4	3.03	0.47
1:AA:684:A:C2	11:AK:39:PRO:HG2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:866:C:N4	1:AA:873:A:H2	2.11	0.47
1:AA:977:A:O2'	1:AA:978:A:C5'	2.62	0.47
1:AA:1048:G:OP1	14:AN:4:LYS:HB2	2.14	0.47
2:AB:7:VAL:HA	2:AB:11:LEU:CG	2.42	0.47
7:AG:27:ILE:O	7:AG:28:ASN:C	2.52	0.47
8:AH:41:ARG:C	8:AH:43:GLY:H	2.18	0.47
15:AO:18:PHE:O	15:AO:19:PRO:C	2.49	0.47
22:AV:34:G:O2'	22:AV:35:A:H5'	2.14	0.47
25:AZ:163:PHE:O	25:AZ:165:GLY:N	2.43	0.47
25:AZ:242:ILE:HB	25:AZ:282:ALA:HA	1.95	0.47
25:AZ:320:VAL:HG12	25:AZ:321:TYR:H	1.79	0.47
36:BA:80:G:H1'	36:BA:346:A:C6	2.49	0.47
36:BA:237:C:H2'	36:BA:238:C:H6	1.79	0.47
36:BA:284:U:O2'	36:BA:285:C:H5'	2.13	0.47
36:BA:532:A:H2'	36:BA:532:A:N3	2.28	0.47
36:BA:848:G:C4	36:BA:933:A:H1'	2.49	0.47
36:BA:979:G:H21	36:BA:985:C:N4	2.12	0.47
36:BA:1170:G:H5''	36:BA:1173:G:H22	1.79	0.47
36:BA:1221:C:H2'	36:BA:1221(A):C:H6	1.79	0.47
36:BA:1222:C:H2'	36:BA:1223:G:C5'	2.35	0.47
36:BA:1360:A:C6	36:BA:1372:U:C4	3.02	0.47
36:BA:1387:C:C4	36:BA:1401:G:N2	2.82	0.47
36:BA:1435:G:H1	36:BA:1557:C:N4	2.09	0.47
36:BA:2059:A:OP1	41:BF:71:GLY:HA3	2.14	0.47
36:BA:2074:U:H2'	36:BA:2075:U:C5	2.49	0.47
36:BA:2170:A:H5''	38:BC:134:ARG:NE	2.26	0.47
36:BA:2306:C:H4'	42:BG:136:ARG:HH12	1.78	0.47
36:BA:2419:U:H2'	36:BA:2420:C:H6	1.78	0.47
36:BA:2830:G:H5'	40:BE:58:ARG:NH1	2.29	0.47
36:BA:2850:A:C6	36:BA:2869:G:H5'	2.48	0.47
38:BC:227:HIS:ND1	38:BC:227:HIS:N	2.62	0.47
39:BD:52:ARG:HB2	39:BD:53:PHE:CD2	2.49	0.47
39:BD:130:ALA:O	39:BD:131:LEU:HG	2.14	0.47
39:BD:261:LYS:HZ2	39:BD:263:ARG:HB2	1.76	0.47
41:BF:39:TRP:HZ2	41:BF:43:LYS:HZ3	1.62	0.47
41:BF:203:GLN:C	41:BF:205:ARG:N	2.66	0.47
42:BG:16:ARG:HG3	42:BG:16:ARG:HH11	1.79	0.47
42:BG:93:THR:C	42:BG:94:LEU:HG	2.33	0.47
42:BG:96:ARG:O	42:BG:97:ASP:HB2	2.14	0.47
42:BG:111:LEU:CB	42:BG:112:PRO:CD	2.92	0.47
48:BP:23:PRO:HB2	48:BP:33:ARG:CD	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:109:GLY:O	48:BP:110:TYR:C	2.53	0.47
50:BR:101:ALA:O	50:BR:102:GLU:HB2	2.14	0.47
52:BT:61:PHE:CZ	52:BT:76:PHE:HD1	2.31	0.47
53:BU:29:SER:O	53:BU:30:LYS:HD3	2.14	0.47
53:BU:52:ARG:NH2	53:BU:55:ARG:HH22	2.10	0.47
55:BW:68:ARG:O	55:BW:110:LYS:CB	2.62	0.47
1:CA:52:G:C6	1:CA:53:A:C5	3.01	0.47
1:CA:84:U:O2'	1:CA:88:A:H5'	2.14	0.47
1:CA:189:G:C6	1:CA:189(A):C:N4	2.83	0.47
1:CA:784:C:H2'	1:CA:785:G:H8	1.79	0.47
1:CA:786:G:N2	1:CA:787:A:H1'	2.29	0.47
1:CA:946:A:C6	1:CA:947:G:O6	2.68	0.47
1:CA:947:G:H2'	1:CA:948:C:H6	1.80	0.47
1:CA:967:C:H4'	9:CI:125:TYR:HE2	1.77	0.47
1:CA:1190:G:H5''	3:CC:3:ASN:HD22	1.79	0.47
1:CA:1287:A:H2'	1:CA:1288:A:H8	1.80	0.47
1:CA:1406:U:O2'	1:CA:1407:C:H5'	2.14	0.47
1:CA:1422:G:C2	1:CA:1423:G:C5	3.02	0.47
1:CA:1433:A:C6	1:CA:1468:A:C4	3.02	0.47
2:CB:106:LYS:HG2	2:CB:107:THR:H	1.76	0.47
2:CB:166:ASP:O	2:CB:167:PRO:C	2.50	0.47
4:CD:106:TYR:CE1	4:CD:113:SER:HA	2.49	0.47
5:CE:12:LEU:HD13	5:CE:12:LEU:C	2.34	0.47
5:CE:63:ARG:HA	5:CE:66:MET:SD	2.54	0.47
12:CL:32:PHE:O	12:CL:33:ARG:HB2	2.14	0.47
13:CM:6:GLY:C	13:CM:8:GLU:N	2.62	0.47
13:CM:70:LEU:C	13:CM:70:LEU:CD2	2.82	0.47
19:CS:16:LEU:C	19:CS:18:LYS:N	2.67	0.47
24:CY:5:A:H2'	24:CY:6:U:C6	2.49	0.47
24:CY:5:A:C2	24:CY:69:C:N3	2.82	0.47
25:CZ:132:VAL:HG23	25:CZ:210:ILE:HD11	1.94	0.47
25:CZ:194:GLU:HB3	25:CZ:198:LYS:HZ3	1.80	0.47
32:D6:41:PRO:HG2	32:D6:47:THR:OG1	2.14	0.47
34:D8:22:VAL:O	34:D8:49:VAL:HG23	2.14	0.47
34:D8:31:HIS:O	34:D8:32:LEU:C	2.52	0.47
34:D8:45:GLY:O	34:D8:46:ARG:O	2.32	0.47
36:DA:83:G:C2'	36:DA:102:G:H22	2.27	0.47
36:DA:500:G:N1	36:DA:503:A:OP2	2.46	0.47
36:DA:569:U:C4	36:DA:570:G:C6	3.02	0.47
36:DA:596:G:N1	36:DA:597:U:C2	2.83	0.47
36:DA:648:G:H2'	36:DA:649:G:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:674:G:H5'	41:DF:76:GLY:N	2.29	0.47
36:DA:1019:U:H3	36:DA:1142(A):A:N6	2.08	0.47
36:DA:1044:G:C3'	36:DA:1045:A:H5'	2.44	0.47
36:DA:1131:G:C2	46:DN:75:TYR:CB	2.96	0.47
36:DA:1307:A:C4	36:DA:1622:G:N2	2.82	0.47
36:DA:1344:G:C2	36:DA:1404:C:C2	3.02	0.47
36:DA:1476:C:H2'	36:DA:1477:A:H8	1.79	0.47
36:DA:1777:U:N3	36:DA:1778:U:C5	2.82	0.47
36:DA:2100:G:C4	36:DA:2190:G:C6	3.02	0.47
36:DA:2128:C:O2'	36:DA:2129:C:C6	2.67	0.47
36:DA:2447:G:C6	36:DA:2501:C:C2	3.02	0.47
36:DA:2588:G:C6	36:DA:2607:G:C2	3.02	0.47
36:DA:2589:A:H2'	36:DA:2590:A:O4'	2.14	0.47
36:DA:2618:G:H21	40:DE:150:VAL:HG21	1.80	0.47
36:DA:2720:U:H3'	36:DA:2721:A:H8	1.79	0.47
36:DA:2721:A:C2'	36:DA:2722:G:H8	2.27	0.47
37:DB:107:G:O2'	37:DB:108:U:H5'	2.14	0.47
38:DC:78:ALA:HB1	38:DC:82:LYS:HB2	1.95	0.47
38:DC:120:MET:SD	38:DC:123:VAL:HG11	2.55	0.47
39:DD:158:ALA:O	39:DD:159:ALA:C	2.52	0.47
40:DE:144:ARG:C	40:DE:146:THR:H	2.17	0.47
40:DE:149:ARG:HG3	40:DE:149:ARG:NH1	2.29	0.47
41:DF:53:THR:CG2	41:DF:56:GLU:HG3	2.36	0.47
43:DH:42:ARG:CB	43:DH:42:ARG:HH11	2.27	0.47
43:DH:148:ILE:HG22	43:DH:162:ILE:CD1	2.44	0.47
47:DO:80:ASP:OD2	52:DT:71:GLY:HA3	2.13	0.47
49:DQ:89:ASN:OD1	49:DQ:89:ASN:N	2.45	0.47
50:DR:21:TYR:N	50:DR:21:TYR:CD1	2.82	0.47
50:DR:76:VAL:CG1	50:DR:77:ARG:N	2.76	0.47
52:DT:28:VAL:HG13	52:DT:45:PHE:C	2.34	0.47
52:DT:83:ILE:CD1	52:DT:84:GLN:HG2	2.44	0.47
57:DY:38:ILE:HD13	57:DY:66:PRO:HG3	1.96	0.47
1:AA:356:A:H2'	1:AA:357:G:H8	1.80	0.47
1:AA:363:A:C2	12:AL:31:PRO:HG2	2.48	0.47
1:AA:525:C:N4	1:AA:526:C:N4	2.62	0.47
1:AA:540:G:C4	1:AA:541:G:C8	3.03	0.47
1:AA:928:G:C2	1:AA:1390:U:O2	2.68	0.47
1:AA:1055:A:N3	1:AA:1055:A:H2'	2.30	0.47
1:AA:1055:A:N7	1:AA:1206:G:C2	2.83	0.47
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.15	0.47
1:AA:1348:U:C4'	9:AI:120:ARG:HD2	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1353:G:C6	1:AA:1354:C:N4	2.82	0.47
1:AA:1353:G:C4	1:AA:1354:C:C5	3.02	0.47
1:AA:1421:G:C6	1:AA:1422:G:N7	2.82	0.47
1:AA:1460:A:N1	1:AA:1461:G:N3	2.62	0.47
1:AA:1503:A:H2'	23:AX:16:A:H62	1.79	0.47
2:AB:28:PHE:HD1	2:AB:28:PHE:O	1.98	0.47
2:AB:103:THR:OG1	2:AB:104:ASN:N	2.47	0.47
4:AD:150:GLU:CG	4:AD:151:LYS:N	2.77	0.47
5:AE:31:LEU:CD2	5:AE:43:LEU:HD11	2.44	0.47
7:AG:69:VAL:O	7:AG:69:VAL:CG1	2.60	0.47
10:AJ:5:ARG:O	10:AJ:99:LYS:HG2	2.15	0.47
10:AJ:12:ASP:C	10:AJ:12:ASP:OD2	2.52	0.47
12:AL:32:PHE:CD1	12:AL:86:ARG:HA	2.49	0.47
13:AM:112:GLY:O	13:AM:113:PRO:C	2.51	0.47
19:AS:13:ASP:O	19:AS:15:LEU:N	2.46	0.47
20:AT:17:ARG:C	20:AT:19:SER:N	2.66	0.47
25:AZ:286:VAL:HG23	25:AZ:287:GLY:N	2.28	0.47
28:B2:59:ARG:HB3	36:BA:76:C:O2'	2.14	0.47
29:B3:17:LYS:HG2	36:BA:969:U:OP1	2.13	0.47
32:B6:17:LYS:O	32:B6:18:ARG:CB	2.62	0.47
34:B8:62:LEU:HD13	36:BA:242:G:C5'	2.44	0.47
36:BA:251:A:H2'	36:BA:252:G:C5'	2.45	0.47
36:BA:329:G:N1	57:BY:19:LYS:HE3	2.27	0.47
36:BA:360:G:O2'	36:BA:361:G:H5'	2.15	0.47
36:BA:558:G:H2'	36:BA:559:G:H8	1.79	0.47
36:BA:614(A):U:C4'	36:BA:614(B):G:H5''	2.44	0.47
36:BA:979:G:N7	36:BA:981:A:OP1	2.47	0.47
36:BA:1021:A:C8	36:BA:1022:G:H4'	2.44	0.47
36:BA:1375:C:C2'	36:BA:1376:C:H5'	2.44	0.47
36:BA:2123:G:N2	38:BC:42:GLU:OE2	2.48	0.47
36:BA:2284:C:O2'	36:BA:2288:A:N6	2.48	0.47
36:BA:2335:A:C8	36:BA:2337:G:C6	3.02	0.47
36:BA:2399:G:C2	36:BA:2400:G:H1'	2.49	0.47
36:BA:2524:G:H5'	36:BA:2524:G:H8	1.79	0.47
36:BA:2841:C:H2'	36:BA:2842:G:H8	1.76	0.47
39:BD:65:ILE:HG22	39:BD:104:TYR:HB3	1.97	0.47
41:BF:110:LEU:CD1	41:BF:111:ALA:N	2.76	0.47
42:BG:44:GLY:N	42:BG:88:ILE:HG21	2.29	0.47
42:BG:60:LEU:HD11	42:BG:92:VAL:HG11	1.96	0.47
43:BH:65:HIS:CE1	43:BH:69:ARG:CZ	2.97	0.47
43:BH:105:LEU:O	43:BH:105:LEU:HG	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:152:ARG:HG3	43:BH:152:ARG:NH1	2.29	0.47
48:BP:23:PRO:HB2	48:BP:33:ARG:HD2	1.95	0.47
50:BR:77:ARG:O	50:BR:79:LEU:N	2.46	0.47
51:BS:12:PHE:O	51:BS:14:VAL:N	2.47	0.47
51:BS:39:ILE:O	51:BS:40:ILE:HG23	2.15	0.47
55:BW:4:LYS:HA	55:BW:106:ILE:HG22	1.95	0.47
55:BW:52:GLU:C	55:BW:54:ALA:N	2.62	0.47
58:BZ:103:ARG:O	58:BZ:103:ARG:HG2	2.14	0.47
58:BZ:149:SER:O	58:BZ:150:LEU:O	2.33	0.47
1:CA:622:A:C8	1:CA:623:C:C6	3.03	0.47
1:CA:628:G:H2'	1:CA:629:G:H8	1.78	0.47
1:CA:790:A:H5'	22:CV:38:A:O3'	2.13	0.47
1:CA:1012:U:O2'	1:CA:1013:G:H5'	2.14	0.47
1:CA:1055:A:C8	1:CA:1206:G:N2	2.82	0.47
1:CA:1220:G:H2'	1:CA:1221:G:C8	2.45	0.47
1:CA:1349:A:H2'	1:CA:1350:A:C8	2.49	0.47
1:CA:1365:G:O2'	1:CA:1366:C:H5'	2.13	0.47
2:CB:7:VAL:HA	2:CB:11:LEU:CG	2.42	0.47
2:CB:48:MET:N	2:CB:51:LEU:HD12	2.29	0.47
2:CB:238:LEU:O	2:CB:238:LEU:HG	2.14	0.47
4:CD:150:GLU:CG	4:CD:151:LYS:N	2.77	0.47
4:CD:158:ILE:O	4:CD:162:LEU:HB2	2.14	0.47
4:CD:180:GLY:O	4:CD:181:MET:C	2.53	0.47
7:CG:34:GLY:C	7:CG:36:LYS:H	2.17	0.47
7:CG:105:VAL:HG12	7:CG:109:ASN:ND2	2.29	0.47
9:CI:22:GLY:O	9:CI:58:HIS:C	2.52	0.47
14:CN:47:LEU:O	14:CN:49:HIS:N	2.47	0.47
16:CP:49:LEU:HD12	16:CP:50:LYS:H	1.79	0.47
18:CR:45:SER:N	18:CR:51:LEU:HG	2.29	0.47
25:CZ:313:HIS:CB	25:CZ:403:ILE:HG21	2.43	0.47
27:D1:16:ASN:OD1	27:D1:38:SER:O	2.31	0.47
28:D2:5:GLU:HB2	28:D2:9:GLN:OE1	2.14	0.47
28:D2:7:ARG:HG2	28:D2:7:ARG:HH11	1.79	0.47
28:D2:32:LEU:CB	28:D2:53:LEU:HD22	2.44	0.47
31:D5:33:CYS:HG	31:D5:49:CYS:HG	1.62	0.47
34:D8:2:PRO:N	36:DA:667:U:O2	2.47	0.47
35:D9:12:ASP:CG	35:D9:13:LYS:N	2.67	0.47
36:DA:189:G:H2'	36:DA:205:G:H22	1.78	0.47
36:DA:248:G:H5''	36:DA:386:G:N2	2.28	0.47
36:DA:265:A:H1'	36:DA:266:G:C1'	2.44	0.47
36:DA:296:C:C2'	36:DA:297:C:H5'	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:440:G:H21	41:DF:46:ARG:NH2	2.13	0.47
36:DA:449:A:C4	36:DA:450:G:C8	3.02	0.47
36:DA:565:C:H2'	36:DA:566:U:C6	2.48	0.47
36:DA:584:C:O5'	36:DA:584:C:H6	1.98	0.47
36:DA:1334:G:H2'	36:DA:1335:U:H6	1.78	0.47
36:DA:1342:A:C2	36:DA:1345:C:C4	3.03	0.47
36:DA:1591:G:H2'	36:DA:1592:C:H5'	1.96	0.47
36:DA:1902:C:H5''	39:DD:246:PRO:HD2	1.95	0.47
36:DA:1939:U:O2'	36:DA:1940:U:H5'	2.15	0.47
36:DA:1963:U:O2	36:DA:1963:U:H2'	2.14	0.47
36:DA:2114:A:C2'	36:DA:2115:G:H5'	2.44	0.47
36:DA:2641:G:OP1	46:DN:74:ARG:HG2	2.14	0.47
36:DA:2673:G:H2'	36:DA:2674:G:C8	2.48	0.47
36:DA:2791:C:H4'	36:DA:2792:G:O5'	2.14	0.47
36:DA:2815:C:H2'	36:DA:2816:C:C6	2.49	0.47
36:DA:2839:G:C5'	50:DR:46:GLY:HA2	2.44	0.47
36:DA:2850:A:C2	50:DR:61:HIS:CD2	3.00	0.47
37:DB:44:G:H4'	37:DB:45:A:H8	1.73	0.47
39:DD:221:VAL:O	39:DD:221:VAL:CG2	2.62	0.47
42:DG:34:LEU:HA	42:DG:161:THR:CG2	2.43	0.47
42:DG:167:GLU:H	42:DG:167:GLU:CD	2.17	0.47
43:DH:83:TYR:CD1	43:DH:84:SER:N	2.82	0.47
43:DH:123:PHE:HD1	43:DH:123:PHE:N	2.13	0.47
46:DN:30:ILE:O	46:DN:34:LEU:HB2	2.14	0.47
47:DO:117:LEU:O	47:DO:118:ALA:C	2.51	0.47
55:DW:6:ILE:CG2	55:DW:7:ALA:N	2.77	0.47
55:DW:6:ILE:HA	55:DW:103:ILE:O	2.13	0.47
1:AA:59:A:H5''	1:AA:60:A:H5''	1.97	0.47
1:AA:130:A:C8	17:AQ:63:ARG:HG3	2.49	0.47
1:AA:194:C:O2'	20:AT:68:LYS:HD3	2.15	0.47
1:AA:525:C:H2'	1:AA:526:C:C6	2.49	0.47
1:AA:808:C:O2'	1:AA:809:G:H5'	2.14	0.47
1:AA:974:A:C8	14:AN:31:ARG:HD2	2.50	0.47
1:AA:1006:C:H2'	1:AA:1007:C:C5	2.48	0.47
1:AA:1399:C:O2	1:AA:1401:G:C6	2.68	0.47
1:AA:1471:G:O2'	1:AA:1472:U:H5'	2.14	0.47
2:AB:83:MET:O	2:AB:85:ALA:N	2.47	0.47
2:AB:223:ILE:O	2:AB:226:ARG:HB3	2.14	0.47
3:AC:7:PRO:HG2	3:AC:184:TYR:CG	2.50	0.47
3:AC:35:GLU:O	3:AC:36:ASP:C	2.51	0.47
3:AC:68:VAL:O	3:AC:103:VAL:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:13:ILE:HA	5:AE:29:GLY:O	2.13	0.47
5:AE:47:LYS:N	5:AE:47:LYS:CD	2.71	0.47
7:AG:113:GLU:CG	7:AG:119:ARG:HG2	2.44	0.47
8:AH:26:VAL:HG23	8:AH:27:PRO:HD2	1.96	0.47
13:AM:14:ARG:HB2	13:AM:17:VAL:CG2	2.44	0.47
15:AO:37:ASN:HD22	15:AO:37:ASN:N	2.11	0.47
16:AP:53:VAL:CG2	16:AP:54:GLU:H	2.19	0.47
21:AU:9:ARG:O	21:AU:10:ARG:C	2.53	0.47
24:AY:51:C:H2'	24:AY:52:A:C8	2.49	0.47
26:B0:24:LYS:N	26:B0:37:LEU:O	2.44	0.47
28:B2:35:LEU:HD11	28:B2:50:ILE:CG1	2.29	0.47
28:B2:35:LEU:HA	28:B2:38:GLN:HG3	1.97	0.47
30:B4:6:HIS:HA	42:BG:67:LYS:CE	2.44	0.47
30:B4:33:VAL:CG1	30:B4:34:GLU:N	2.77	0.47
34:B8:13:ARG:CA	48:BP:63:PRO:HA	2.45	0.47
34:B8:50:LEU:N	34:B8:53:PRO:HG3	2.29	0.47
36:BA:83:G:C2'	36:BA:102:G:H22	2.26	0.47
36:BA:222:A:H2	36:BA:233:A:O3'	1.98	0.47
36:BA:252:G:P	48:BP:50:ARG:NH1	2.87	0.47
36:BA:280:C:H2'	36:BA:281:G:H5'	1.96	0.47
36:BA:478:A:N1	36:BA:500:G:H4'	2.29	0.47
36:BA:536:A:C2	36:BA:558:G:C6	3.02	0.47
36:BA:704:G:N3	36:BA:726:G:C2	2.82	0.47
36:BA:759:G:H8	36:BA:759:G:O5'	1.98	0.47
36:BA:783:A:H2'	36:BA:784:A:H4'	1.96	0.47
36:BA:980:A:C6	36:BA:981:A:C2	3.03	0.47
36:BA:1270:C:H5''	36:BA:1271:G:O5'	2.14	0.47
36:BA:1545:A:H2'	36:BA:1546:C:O4'	2.15	0.47
36:BA:1816:G:H5'	39:BD:62:TYR:CE2	2.49	0.47
36:BA:1902:C:H2'	36:BA:1903:G:O5'	2.15	0.47
36:BA:1973:G:C6	36:BA:1974:C:N4	2.83	0.47
36:BA:2033:A:HO2'	36:BA:2034:U:P	2.37	0.47
36:BA:2101:G:C2'	36:BA:2102:U:H5''	2.44	0.47
36:BA:2121:G:C2	36:BA:2122:U:C4	3.02	0.47
36:BA:2139:C:H2'	36:BA:2140:C:C6	2.48	0.47
36:BA:2317:C:H3'	36:BA:2318:G:H21	1.79	0.47
40:BE:176:ILE:HG22	40:BE:178:GLU:HB3	1.95	0.47
41:BF:25:PRO:HB3	41:BF:119:ARG:HA	1.97	0.47
41:BF:82:ILE:O	41:BF:83:PHE:HB2	2.11	0.47
46:BN:24:GLY:C	46:BN:26:LEU:H	2.11	0.47
46:BN:96:GLU:CD	46:BN:96:GLU:H	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:62:GLY:CA	58:BZ:116:VAL:HG11	2.45	0.47
50:BR:41:ALA:O	50:BR:42:LYS:C	2.53	0.47
50:BR:42:LYS:O	50:BR:45:ARG:CG	2.62	0.47
50:BR:73:VAL:HG12	50:BR:77:ARG:HH12	1.77	0.47
51:BS:18:ILE:HG13	51:BS:18:ILE:H	1.49	0.47
51:BS:22:GLY:O	51:BS:23:ARG:O	2.33	0.47
51:BS:74:ALA:O	51:BS:76:LYS:N	2.48	0.47
51:BS:98:VAL:O	51:BS:100:ALA:N	2.46	0.47
52:BT:78:LEU:H	52:BT:82:LEU:HD21	1.80	0.47
52:BT:119:LYS:O	52:BT:123:GLN:HG2	2.15	0.47
53:BU:92:ARG:NH2	54:BV:10:LYS:CB	2.77	0.47
1:CA:10:A:C2	1:CA:11:G:N7	2.82	0.47
1:CA:29:G:O2'	1:CA:30:U:H5'	2.15	0.47
1:CA:109:A:C8	1:CA:326:G:H2'	2.50	0.47
1:CA:334:C:O2'	1:CA:335:C:H5'	2.15	0.47
1:CA:808:C:O2'	1:CA:809:G:H5'	2.14	0.47
1:CA:904:C:H2'	1:CA:905:U:O4'	2.14	0.47
1:CA:926:G:C6	1:CA:1505:G:N7	2.83	0.47
1:CA:992:U:O2'	1:CA:993:G:P	2.72	0.47
1:CA:1124:G:H2'	1:CA:1145:C:N4	2.30	0.47
1:CA:1242:C:H2'	1:CA:1243:C:H6	1.70	0.47
1:CA:1351:U:O4	9:CI:118:LYS:NZ	2.47	0.47
1:CA:1492:A:C2	1:CA:1493:A:C2	3.03	0.47
2:CB:187:LEU:HD13	2:CB:205:ASP:HA	1.95	0.47
2:CB:223:ILE:O	2:CB:226:ARG:N	2.47	0.47
3:CC:50:ALA:HB2	3:CC:75:VAL:HB	1.96	0.47
3:CC:72:LYS:C	3:CC:74:GLY:H	2.17	0.47
4:CD:24:GLU:H	4:CD:112:VAL:HG21	1.78	0.47
5:CE:77:PRO:O	5:CE:78:HIS:HB3	2.14	0.47
5:CE:136:MET:O	5:CE:139:LEU:N	2.47	0.47
8:CH:7:ALA:HB2	8:CH:85:ARG:CD	2.38	0.47
8:CH:20:TYR:HD1	8:CH:65:TYR:CE2	2.32	0.47
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	2.26	0.47
8:CH:123:GLU:O	8:CH:127:LEU:HB2	2.14	0.47
9:CI:121:ARG:NH1	9:CI:122:ALA:O	2.47	0.47
13:CM:107:ALA:C	13:CM:109:THR:N	2.67	0.47
26:D0:25:ARG:HG3	26:D0:31:VAL:HG11	1.95	0.47
28:D2:32:LEU:O	28:D2:32:LEU:HD23	2.13	0.47
33:D7:19:ARG:HD3	36:DA:125:G:C5'	2.44	0.47
34:D8:13:ARG:CA	48:DP:63:PRO:HA	2.44	0.47
36:DA:185:U:H2'	36:DA:186:G:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:225:A:O2'	36:DA:226:G:H5'	2.14	0.47
36:DA:226:G:H5''	36:DA:257:A:O2'	2.15	0.47
36:DA:271(U):G:C4	36:DA:271(V):G:C8	3.01	0.47
36:DA:556:G:H2'	36:DA:557:U:C6	2.49	0.47
36:DA:576:U:OP1	36:DA:2503:A:OP1	2.32	0.47
36:DA:1268:A:H2'	36:DA:1269:A:C8	2.49	0.47
36:DA:1322:A:H2'	36:DA:1323:U:C6	2.50	0.47
36:DA:1494:A:O2'	36:DA:1496:A:H2	1.97	0.47
36:DA:1509(B):A:C2'	36:DA:1510:G:H5'	2.44	0.47
36:DA:1511:C:C5	36:DA:1512:U:H5	2.32	0.47
36:DA:1517:G:C5	36:DA:1518:U:C4	3.02	0.47
36:DA:1661:G:C6	36:DA:2000:G:C2	3.02	0.47
36:DA:1668:A:N6	36:DA:1676:A:H61	2.12	0.47
36:DA:1949:G:C6	36:DA:1950:G:C6	3.02	0.47
36:DA:2083:G:H2'	36:DA:2084:C:C6	2.49	0.47
36:DA:2335:A:C8	36:DA:2337:G:C6	3.02	0.47
36:DA:2359:C:C2	36:DA:2360:A:C8	3.02	0.47
36:DA:2512:C:H2'	36:DA:2513:G:O4'	2.14	0.47
36:DA:2627:G:N2	36:DA:2777:G:OP2	2.42	0.47
36:DA:2773:C:H5''	40:DE:164:ARG:CD	2.44	0.47
36:DA:2845:G:O2'	36:DA:2846:G:H5'	2.13	0.47
38:DC:42:GLU:HB3	38:DC:44:HIS:NE2	2.29	0.47
39:DD:96:HIS:CE1	39:DD:102:LYS:NZ	2.82	0.47
40:DE:4:ILE:HG12	40:DE:5:LEU:H	1.78	0.47
40:DE:23:VAL:CG1	40:DE:173:VAL:HG21	2.44	0.47
41:DF:122:LYS:CB	41:DF:191:ARG:HG3	2.43	0.47
42:DG:86:MET:N	42:DG:87:PRO:CD	2.75	0.47
42:DG:110:ALA:O	42:DG:111:LEU:HD23	2.13	0.47
43:DH:41:MET:HA	43:DH:55:PRO:HD3	1.96	0.47
46:DN:120:LEU:CD1	46:DN:122:VAL:HG23	2.45	0.47
46:DN:137:LYS:O	46:DN:138:LEU:HG	2.14	0.47
48:DP:106:LEU:HD11	48:DP:112:LEU:CD2	2.44	0.47
49:DQ:43:THR:HA	49:DQ:93:TYR:O	2.13	0.47
49:DQ:113:GLN:O	49:DQ:116:GLU:N	2.38	0.47
51:DS:53:SER:O	51:DS:56:LEU:HB3	2.14	0.47
52:DT:94:ALA:C	52:DT:96:ARG:N	2.68	0.47
53:DU:68:ALA:HB1	53:DU:106:PHE:CE2	2.49	0.47
56:DX:31:HIS:O	56:DX:32:PRO:C	2.53	0.47
56:DX:54:VAL:HG12	56:DX:55:ASN:N	2.29	0.47
1:AA:788:U:H2'	1:AA:789:U:C6	2.49	0.47
1:AA:923:A:N6	1:AA:924:C:N4	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:979:C:C3'	1:AA:980:C:C5'	2.77	0.47
1:AA:1034:G:N2	1:AA:1035:A:C6	2.82	0.47
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.14	0.47
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.97	0.47
4:AD:14:ARG:HD2	4:AD:59:ARG:NH1	2.29	0.47
7:AG:15:ASP:OD2	7:AG:16:LEU:N	2.48	0.47
7:AG:34:GLY:C	7:AG:36:LYS:H	2.17	0.47
7:AG:135:VAL:O	7:AG:136:LYS:C	2.52	0.47
8:AH:64:LYS:HG2	8:AH:65:TYR:H	1.78	0.47
9:AI:20:ARG:O	9:AI:60:ASP:HB2	2.15	0.47
9:AI:79:LEU:HD21	9:AI:102:LEU:C	2.34	0.47
20:AT:100:ILE:O	20:AT:102:GLY:N	2.38	0.47
25:AZ:38:GLU:HB3	25:AZ:189:ARG:HH11	1.77	0.47
25:AZ:104:LEU:HD13	25:AZ:120:ILE:HD11	1.95	0.47
27:B1:51:VAL:HG23	27:B1:51:VAL:O	2.15	0.47
29:B3:10:LYS:HB3	29:B3:53:LEU:HD22	1.95	0.47
29:B3:14:GLY:O	36:BA:969:U:H4'	2.14	0.47
33:B7:11:LYS:CE	36:BA:686:G:H5''	2.44	0.47
33:B7:19:ARG:HD3	36:BA:125:G:C5'	2.44	0.47
36:BA:220:G:H2'	36:BA:427:U:O4	2.14	0.47
36:BA:326:G:H2'	36:BA:327:G:O4'	2.15	0.47
36:BA:701:G:H2'	36:BA:701:G:N3	2.30	0.47
36:BA:751:A:H5'	55:BW:90:ARG:CA	2.42	0.47
36:BA:793:A:N7	36:BA:2072:G:H5''	2.30	0.47
36:BA:848:G:H1'	36:BA:933:A:O2'	2.14	0.47
36:BA:1137:G:H2'	36:BA:1138:G:H8	1.76	0.47
36:BA:1205:U:C6	41:BF:171:PRO:HA	2.50	0.47
36:BA:1410:G:O2'	36:BA:1411:C:H5'	2.14	0.47
36:BA:1509(B):A:O2'	36:BA:1510:G:H5'	2.13	0.47
36:BA:1722:A:O2'	36:BA:1739:U:H5''	2.13	0.47
36:BA:2122:U:O2	38:BC:172:HIS:NE2	2.47	0.47
36:BA:2233:U:H2'	36:BA:2234:G:H8	1.75	0.47
36:BA:2305:A:O2'	42:BG:136:ARG:NE	2.48	0.47
36:BA:2432:A:C6	36:BA:2433:A:C6	3.03	0.47
36:BA:2539:C:H2'	36:BA:2540:C:H6	1.79	0.47
36:BA:2540:C:O2	36:BA:2740:A:H2	1.97	0.47
36:BA:2596:U:H3'	36:BA:2597:G:C8	2.49	0.47
39:BD:91:ARG:CG	39:BD:91:ARG:NH1	2.75	0.47
39:BD:118:VAL:HG22	39:BD:119:ALA:N	2.29	0.47
39:BD:148:GLU:HB2	39:BD:151:LYS:HD2	1.96	0.47
40:BE:1:MET:H3	40:BE:84:PHE:HB2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:101:ARG:HG2	43:BH:117:PRO:CG	2.35	0.47
46:BN:101:HIS:O	46:BN:103:VAL:N	2.48	0.47
48:BP:59:LEU:CA	48:BP:61:ARG:NE	2.62	0.47
49:BQ:22:LYS:H	58:BZ:78:LYS:CE	2.19	0.47
51:BS:89:ARG:HG3	51:BS:92:TYR:HB3	1.95	0.47
51:BS:97:ARG:NE	51:BS:97:ARG:C	2.68	0.47
53:BU:68:ALA:HB1	53:BU:106:PHE:CE2	2.49	0.47
53:BU:102:GLU:HB3	53:BU:105:VAL:CG2	2.44	0.47
54:BV:36:PRO:HA	54:BV:56:SER:HB3	1.97	0.47
55:BW:5:ALA:C	55:BW:6:ILE:HG13	2.35	0.47
57:BY:46:LYS:CB	57:BY:62:GLU:HG2	2.40	0.47
57:BY:68:HIS:ND1	57:BY:70:SER:HB3	2.29	0.47
57:BY:75:ILE:HA	57:BY:79:CYS:O	2.13	0.47
58:BZ:42:VAL:HG22	58:BZ:43:GLU:N	2.29	0.47
1:CA:398:C:H2'	1:CA:399:G:H8	1.79	0.47
1:CA:446:G:C2'	1:CA:447:G:H5'	2.45	0.47
1:CA:901:A:C5	1:CA:902:G:H1'	2.49	0.47
1:CA:1274:G:N2	1:CA:1275:A:N6	2.63	0.47
1:CA:1506:U:O2'	1:CA:1507:A:O5'	2.25	0.47
2:CB:44:LEU:O	2:CB:47:THR:CB	2.62	0.47
2:CB:155:LEU:CD2	2:CB:159:PRO:HG3	2.43	0.47
3:CC:16:ARG:HH21	3:CC:183:ASP:CA	2.24	0.47
3:CC:131:ARG:NH2	3:CC:167:TRP:O	2.48	0.47
3:CC:132:ARG:HE	3:CC:132:ARG:HB2	1.44	0.47
3:CC:206:GLU:O	3:CC:207:VAL:C	2.52	0.47
4:CD:60:GLU:HG2	4:CD:202:LEU:HB2	1.95	0.47
4:CD:159:ARG:HG3	4:CD:159:ARG:HH11	1.78	0.47
5:CE:110:LEU:O	5:CE:115:VAL:HG23	2.13	0.47
7:CG:105:VAL:O	7:CG:107:ALA:N	2.46	0.47
9:CI:48:GLU:O	9:CI:49:PRO:C	2.52	0.47
10:CJ:9:ARG:HA	10:CJ:68:HIS:O	2.14	0.47
15:CO:39:LEU:CD2	15:CO:43:LEU:HG	2.44	0.47
20:CT:45:GLN:NE2	20:CT:46:GLU:N	2.63	0.47
22:CW:53:G:C2	22:CW:54:U:N3	2.81	0.47
24:CY:50:G:N2	24:CY:65:C:H1'	2.29	0.47
25:CZ:179:LEU:HG	25:CZ:179:LEU:O	2.15	0.47
25:CZ:219:LYS:HB2	25:CZ:244:ARG:HB2	1.95	0.47
27:D1:41:ARG:O	27:D1:43:TYR:CD2	2.67	0.47
30:D4:5:ILE:O	30:D4:5:ILE:CG1	2.60	0.47
31:D5:17:ASP:HB2	36:DA:16:G:H5''	1.96	0.47
34:D8:17:THR:O	34:D8:20:GLY:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:23:VAL:HG13	34:D8:47:LYS:N	2.29	0.47
36:DA:26:G:H1'	36:DA:515:A:H61	1.79	0.47
36:DA:80:G:H1'	36:DA:346:A:C6	2.49	0.47
36:DA:89:G:H8	36:DA:89:G:O5'	1.98	0.47
36:DA:118:A:H5'	36:DA:119:A:C8	2.49	0.47
36:DA:204:A:OP1	36:DA:206:U:H1'	2.15	0.47
36:DA:270:A:C2'	36:DA:271:A:H5'	2.45	0.47
36:DA:972:G:H8	36:DA:972:G:O5'	1.97	0.47
36:DA:1205:U:C6	41:DF:171:PRO:HA	2.49	0.47
36:DA:1277:G:O2'	36:DA:1278:A:H5'	2.15	0.47
36:DA:1543:C:C3'	36:DA:1544:A:C5'	2.87	0.47
36:DA:1668:A:N7	36:DA:1674:G:C6	2.83	0.47
36:DA:1722:A:H2	36:DA:1740:G:H2'	1.78	0.47
36:DA:1792:G:OP2	39:DD:206:LEU:HD12	2.14	0.47
36:DA:1884:A:C3'	36:DA:1885:A:H5''	2.44	0.47
36:DA:2139:C:H2'	36:DA:2140:C:C6	2.50	0.47
36:DA:2189:U:H3'	36:DA:2190:G:C5'	2.45	0.47
36:DA:2203:U:H2'	36:DA:2203:U:O2	2.14	0.47
36:DA:2493:U:H2'	36:DA:2494:G:O4'	2.14	0.47
36:DA:2496:C:P	49:DQ:83:MET:HG2	2.54	0.47
36:DA:2590:A:O2'	36:DA:2591:C:H5'	2.13	0.47
36:DA:2650:U:H2'	36:DA:2651:C:C6	2.50	0.47
36:DA:2847:U:OP1	52:DT:98:LYS:HD3	2.14	0.47
38:DC:82:LYS:HA	38:DC:85:GLU:HB3	1.97	0.47
38:DC:227:HIS:ND1	38:DC:227:HIS:N	2.63	0.47
39:DD:204:ILE:HG13	39:DD:204:ILE:O	2.13	0.47
39:DD:261:LYS:HZ2	39:DD:263:ARG:HB2	1.75	0.47
42:DG:60:LEU:HA	42:DG:63:ILE:HD11	1.97	0.47
43:DH:12:PRO:CA	43:DH:48:GLY:HA2	2.45	0.47
43:DH:101:ARG:HG2	43:DH:117:PRO:CG	2.35	0.47
54:DV:2:PHE:HB3	54:DV:41:GLY:O	2.14	0.47
54:DV:19:LYS:NZ	54:DV:21:ARG:O	2.48	0.47
58:DZ:42:VAL:HG13	58:DZ:43:GLU:H	1.79	0.47
1:AA:44:G:H1'	1:AA:399:G:N2	2.30	0.47
1:AA:224:C:H2'	1:AA:225:C:C6	2.50	0.47
1:AA:307:C:O2	1:AA:307:C:C2'	2.63	0.47
1:AA:865:A:C2'	1:AA:866:C:H5'	2.44	0.47
1:AA:1139:G:H4'	1:AA:1140:C:H6	1.79	0.47
1:AA:1401:G:H2'	1:AA:1402:C:C5'	2.44	0.47
1:AA:1477:C:O2'	1:AA:1478:C:H5'	2.14	0.47
4:AD:67:ILE:O	4:AD:67:ILE:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:96:LEU:HG	4:AD:139:ARG:NH2	2.29	0.47
4:AD:187:ARG:HG2	4:AD:188:LEU:N	2.30	0.47
5:AE:90:VAL:O	5:AE:120:THR:HA	2.13	0.47
7:AG:140:ASP:HA	7:AG:143:ARG:HB2	1.97	0.47
10:AJ:9:ARG:HA	10:AJ:68:HIS:O	2.15	0.47
13:AM:107:ALA:C	13:AM:109:THR:N	2.67	0.47
14:AN:21:TYR:CD1	14:AN:21:TYR:N	2.83	0.47
15:AO:17:ARG:HG3	15:AO:17:ARG:NH1	2.30	0.47
15:AO:74:ASP:OD1	15:AO:77:ARG:HG2	2.15	0.47
17:AQ:99:SER:O	17:AQ:100:LYS:CG	2.63	0.47
18:AR:47:THR:CB	18:AR:49:LYS:HZ2	2.27	0.47
19:AS:40:ILE:HD13	19:AS:66:MET:O	2.14	0.47
20:AT:26:ASN:HB2	20:AT:71:THR:CG2	2.45	0.47
20:AT:94:ALA:O	20:AT:95:ALA:HB3	2.15	0.47
24:AY:69:C:H2'	24:AY:70:A:C8	2.50	0.47
25:AZ:155:ARG:HG2	25:AZ:155:ARG:HH11	1.79	0.47
25:AZ:278:GLN:OE1	25:AZ:278:GLN:HA	2.14	0.47
25:AZ:339:ARG:CZ	25:AZ:352:VAL:HG22	2.45	0.47
26:B0:10:THR:HG22	26:B0:12:ASN:N	2.28	0.47
26:B0:77:ARG:C	26:B0:78:TYR:CD1	2.88	0.47
27:B1:67:ILE:O	27:B1:68:PRO:C	2.50	0.47
28:B2:4:SER:HA	28:B2:7:ARG:HD2	1.97	0.47
36:BA:204:A:OP1	36:BA:204:A:H8	1.96	0.47
36:BA:296:C:N4	36:BA:343:C:H42	2.13	0.47
36:BA:621:A:C2'	36:BA:622:G:H5'	2.45	0.47
36:BA:646:A:H3'	36:BA:647:G:H8	1.79	0.47
36:BA:856:C:H2'	36:BA:857:C:H6	1.78	0.47
36:BA:986:C:O2'	36:BA:987:G:H5'	2.14	0.47
36:BA:1027:A:N3	36:BA:1027:A:C2'	2.75	0.47
36:BA:1668:A:N6	36:BA:1676:A:H61	2.12	0.47
36:BA:2009:G:H4'	55:BW:40:ASN:HD21	1.75	0.47
36:BA:2815:C:H2'	36:BA:2815:C:O2	2.13	0.47
36:BA:2822:G:H2'	36:BA:2823:A:C5'	2.33	0.47
38:BC:64:LEU:HD13	38:BC:188:ASN:ND2	2.29	0.47
38:BC:199:HIS:O	38:BC:201:PRO:N	2.48	0.47
39:BD:94:LEU:HD23	39:BD:103:ARG:O	2.14	0.47
39:BD:112:GLN:O	39:BD:115:GLN:HB2	2.15	0.47
39:BD:142:VAL:HG21	39:BD:191:ALA:HB1	1.97	0.47
43:BH:42:ARG:CB	43:BH:42:ARG:HH11	2.27	0.47
43:BH:83:TYR:CD1	43:BH:84:SER:N	2.82	0.47
46:BN:71:ILE:HA	46:BN:86:PRO:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:78:PRO:HB2	48:BP:111:ARG:NH2	2.27	0.47
49:BQ:63:LYS:HE3	49:BQ:65:PHE:HE1	1.79	0.47
50:BR:55:ALA:HB1	50:BR:79:LEU:HD11	1.96	0.47
52:BT:65:LYS:HG3	52:BT:66:VAL:N	2.28	0.47
53:BU:52:ARG:CZ	53:BU:55:ARG:NH2	2.72	0.47
54:BV:91:TYR:HE1	54:BV:93:GLU:HG3	1.79	0.47
56:BX:10:ALA:O	56:BX:28:PHE:HB2	2.15	0.47
58:BZ:162:GLU:O	58:BZ:163:LEU:O	2.33	0.47
1:CA:245:C:O2'	1:CA:246:A:P	2.73	0.47
1:CA:419:C:H2'	1:CA:420:U:H5'	1.96	0.47
1:CA:660:G:C4	1:CA:661:G:C8	3.03	0.47
1:CA:738:C:H2'	1:CA:739:C:C6	2.50	0.47
1:CA:994:A:N7	1:CA:1216:G:H4'	2.29	0.47
1:CA:1006:C:H2'	1:CA:1007:C:C6	2.50	0.47
1:CA:1164:G:C2	1:CA:1165:C:C4	3.02	0.47
1:CA:1452:C:H5'	1:CA:1456:G:C4	2.49	0.47
2:CB:22:LYS:CE	2:CB:40:HIS:CE1	2.98	0.47
2:CB:83:MET:C	2:CB:85:ALA:H	2.18	0.47
2:CB:111:ARG:O	2:CB:115:LEU:N	2.46	0.47
2:CB:132:LYS:O	2:CB:136:VAL:HG23	2.15	0.47
4:CD:119:GLN:HG3	4:CD:123:HIS:NE2	2.29	0.47
9:CI:116:LYS:HA	9:CI:123:PRO:HD3	1.96	0.47
11:CK:32:ILE:HG22	11:CK:33:THR:N	2.29	0.47
11:CK:65:ALA:HB1	11:CK:98:LEU:CD2	2.45	0.47
12:CL:75:HIS:HD2	12:CL:77:LEU:HB2	1.79	0.47
13:CM:29:ARG:HA	13:CM:32:GLU:OE2	2.14	0.47
15:CO:11:VAL:HG12	15:CO:12:ILE:N	2.29	0.47
20:CT:26:ASN:HB2	20:CT:71:THR:CG2	2.43	0.47
24:CY:55:PSU:O4	24:CY:55:PSU:H5''	2.14	0.47
24:CY:64:C:H4'	25:CZ:391:GLY:HA2	1.97	0.47
26:D0:47:PRO:O	26:D0:78:TYR:CD2	2.66	0.47
27:D1:17:SER:HG	27:D1:38:SER:HB2	1.79	0.47
27:D1:50:ARG:NH1	36:DA:2200:C:C5'	2.78	0.47
31:D5:44:THR:CG2	50:DR:101:ALA:HB2	2.39	0.47
32:D6:15:GLU:HG3	32:D6:47:THR:OG1	2.13	0.47
34:D8:5:LYS:HB3	36:DA:254:G:O6	2.15	0.47
36:DA:58:G:H2'	36:DA:59:U:H6	1.78	0.47
36:DA:135:G:C2	36:DA:145:G:C2	3.02	0.47
36:DA:332:A:O2'	36:DA:333:G:O5'	2.33	0.47
36:DA:340:A:C2	36:DA:341:G:H1'	2.50	0.47
36:DA:373:U:H2'	36:DA:374:A:H8	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:463:G:C2	36:DA:467:G:C6	3.02	0.47
36:DA:536:A:C2	36:DA:558:G:C6	3.02	0.47
36:DA:1054:A:C6	36:DA:1106:G:O6	2.67	0.47
36:DA:1326:U:O2'	36:DA:1327:C:H5'	2.14	0.47
36:DA:1624:G:C4	36:DA:1625:C:C5	3.02	0.47
36:DA:1668:A:C5	36:DA:1674:G:C5	3.03	0.47
36:DA:1772:G:N2	36:DA:1774:C:C5'	2.78	0.47
36:DA:2148:G:O2'	36:DA:2149:G:H5'	2.15	0.47
36:DA:2159:G:H2'	36:DA:2160:G:C5'	2.45	0.47
36:DA:2200:C:H5'	36:DA:2201:C:OP2	2.14	0.47
36:DA:2259:G:C2	36:DA:2282:G:C6	3.02	0.47
36:DA:2578:G:H4'	36:DA:2578:G:OP2	2.14	0.47
36:DA:2708:G:C4	36:DA:2709:G:N7	2.83	0.47
38:DC:63:SER:HA	38:DC:160:ARG:CA	2.37	0.47
39:DD:170:GLY:C	39:DD:172:TYR:H	2.17	0.47
39:DD:240:ALA:HB1	39:DD:241:PRO:HD2	1.97	0.47
40:DE:24:THR:OG1	40:DE:186:GLY:HA2	2.14	0.47
40:DE:27:LEU:HD22	52:DT:1:MET:HB2	1.95	0.47
41:DF:7:TYR:HE1	41:DF:196:LEU:HD11	1.78	0.47
41:DF:9:ILE:HA	41:DF:13:SER:O	2.15	0.47
41:DF:132:VAL:HG13	41:DF:133:ASN:H	1.79	0.47
41:DF:168:ARG:HA	41:DF:175:THR:HG21	1.96	0.47
46:DN:101:HIS:O	46:DN:103:VAL:N	2.47	0.47
48:DP:84:ASN:ND2	48:DP:116:GLY:HA3	2.30	0.47
49:DQ:48:GLU:O	49:DQ:52:VAL:HG23	2.15	0.47
51:DS:28:VAL:CG1	51:DS:29:PHE:H	2.16	0.47
53:DU:40:PHE:HB3	54:DV:75:PHE:CE1	2.48	0.47
55:DW:80:PRO:O	55:DW:100:THR:HG22	2.15	0.47
57:DY:59:GLY:O	57:DY:60:PHE:CD1	2.68	0.47
58:DZ:19:ARG:HH11	58:DZ:84:GLU:C	2.18	0.47
1:AA:68:G:H5'	1:AA:171:A:H1'	1.95	0.47
1:AA:166:G:H2'	1:AA:167:G:C8	2.50	0.47
1:AA:397:A:H3'	1:AA:397:A:N3	2.30	0.47
1:AA:398:C:H6	1:AA:398:C:H3'	1.80	0.47
1:AA:408:A:H4'	4:AD:112:VAL:CG1	2.37	0.47
1:AA:445:G:C6	1:AA:490:G:C6	3.03	0.47
1:AA:452:A:HO2'	1:AA:453:A:H5''	1.78	0.47
1:AA:507:C:OP2	1:AA:508:C:H3'	2.15	0.47
1:AA:590:C:OP1	8:AH:30:ARG:N	2.40	0.47
1:AA:628:G:H2'	1:AA:629:G:H8	1.80	0.47
1:AA:722:A:N3	1:AA:722:A:H2'	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:782:A:H2'	1:AA:783:C:H5'	1.96	0.47
1:AA:913:A:H1'	1:AA:914:A:O4'	2.14	0.47
1:AA:972:C:H4'	10:AJ:57:LYS:CG	2.38	0.47
1:AA:1049:U:O2	1:AA:1201:A:C4	2.67	0.47
1:AA:1095:U:H2'	1:AA:1096:C:O4'	2.15	0.47
1:AA:1249:C:H5'	1:AA:1249:C:C6	2.39	0.47
1:AA:1274:G:N2	1:AA:1275:A:N6	2.61	0.47
1:AA:1349:A:H2'	1:AA:1350:A:C8	2.50	0.47
1:AA:1418:A:H3'	1:AA:1419:G:O4'	2.14	0.47
1:AA:1433:A:N6	1:AA:1468:A:C8	2.82	0.47
1:AA:1479:C:O2'	1:AA:1480:G:H5'	2.15	0.47
1:AA:1512:U:O2'	1:AA:1513:A:H5'	2.14	0.47
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.80	0.47
1:AA:1526:G:C2	1:AA:1527:C:C5	3.03	0.47
2:AB:17:PHE:CD2	2:AB:17:PHE:C	2.88	0.47
2:AB:92:TYR:CD1	2:AB:151:GLY:HA3	2.49	0.47
2:AB:114:ARG:HH11	2:AB:118:LEU:HD21	1.79	0.47
2:AB:127:ILE:C	2:AB:129:GLU:H	2.17	0.47
2:AB:168:THR:CG2	2:AB:192:SER:HA	2.44	0.47
3:AC:206:GLU:O	3:AC:207:VAL:C	2.52	0.47
4:AD:135:LEU:C	4:AD:137:SER:N	2.67	0.47
5:AE:34:VAL:HG12	5:AE:62:ALA:HB1	1.97	0.47
5:AE:76:ILE:HG12	5:AE:78:HIS:N	2.22	0.47
7:AG:19:GLY:O	7:AG:20:ASP:C	2.53	0.47
7:AG:79:ARG:NH2	22:AW:33:U:H4'	2.30	0.47
7:AG:118:VAL:O	7:AG:121:ALA:N	2.48	0.47
8:AH:20:TYR:HD1	8:AH:65:TYR:CE2	2.33	0.47
9:AI:52:ALA:HB3	9:AI:95:LYS:CE	2.29	0.47
9:AI:97:LYS:O	9:AI:98:PRO:C	2.53	0.47
11:AK:25:TYR:CE1	11:AK:87:THR:HB	2.43	0.47
12:AL:32:PHE:HD1	12:AL:86:ARG:HA	1.78	0.47
13:AM:35:GLU:CG	13:AM:36:LYS:N	2.78	0.47
13:AM:40:ASN:ND2	13:AM:43:THR:HG23	2.28	0.47
15:AO:74:ASP:OD2	15:AO:76:GLU:N	2.45	0.47
19:AS:32:LYS:HA	19:AS:50:ALA:HB3	1.97	0.47
20:AT:27:LYS:HD3	20:AT:27:LYS:O	2.14	0.47
22:AV:2:C:H2'	22:AV:2:C:O2	2.13	0.47
22:AV:52:G:H1	22:AV:62:C:H42	1.63	0.47
24:AY:5:A:C2	24:AY:69:C:N3	2.82	0.47
24:AY:37:YG:H31	24:AY:37:YG:C1'	2.42	0.47
24:AY:64:C:O4'	25:AZ:391:GLY:HA2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:112:PRO:HG3	25:AZ:153:GLU:OE1	2.14	0.47
25:AZ:196:VAL:O	25:AZ:200:TRP:CD1	2.67	0.47
25:AZ:226:GLU:CD	25:AZ:240:GLY:HA2	2.35	0.47
25:AZ:258:LEU:HD23	25:AZ:376:LYS:CB	2.40	0.47
25:AZ:267:VAL:O	25:AZ:267:VAL:HG13	2.13	0.47
25:AZ:313:HIS:CG	25:AZ:403:ILE:HG21	2.50	0.47
25:AZ:399:VAL:O	25:AZ:399:VAL:HG13	2.13	0.47
26:B0:5:LYS:HB3	26:B0:5:LYS:HZ2	1.80	0.47
26:B0:23:VAL:HG13	26:B0:38:VAL:HG22	1.97	0.47
27:B1:23:LYS:HD3	27:B1:28:GLY:HA3	1.97	0.47
27:B1:37:ILE:HD12	27:B1:37:ILE:H	1.80	0.47
28:B2:26:ARG:O	28:B2:26:ARG:HG2	2.14	0.47
32:B6:30:THR:O	32:B6:31:PRO:C	2.53	0.47
33:B7:19:ARG:NE	36:BA:124:G:H2'	2.29	0.47
34:B8:3:LYS:HD3	36:BA:242:G:H5''	1.96	0.47
34:B8:23:VAL:HG13	34:B8:47:LYS:N	2.29	0.47
35:B9:10:ILE:O	35:B9:11:CYS:CB	2.63	0.47
36:BA:25:U:H5'	55:BW:78:GLU:O	2.15	0.47
36:BA:28:A:H1'	36:BA:513:A:C2	2.50	0.47
36:BA:85:G:OP1	57:BY:9:LYS:HB2	2.14	0.47
36:BA:321:G:C1'	41:BF:168:ARG:HH21	2.27	0.47
36:BA:343:C:H2'	36:BA:343:C:O2	2.14	0.47
36:BA:444:C:O3'	53:BU:2:PRO:N	2.48	0.47
36:BA:661:C:H2'	36:BA:662:G:H8	1.79	0.47
36:BA:728:G:C2	36:BA:730:C:C2	3.03	0.47
36:BA:807:U:H2'	36:BA:808:G:C8	2.49	0.47
36:BA:904:C:C6	36:BA:904:C:OP2	2.67	0.47
36:BA:910:A:N6	49:BQ:11:LYS:O	2.47	0.47
36:BA:933:A:H2'	36:BA:934:G:O4'	2.14	0.47
36:BA:940:G:H2'	36:BA:941:A:O4'	2.15	0.47
36:BA:993:G:H4'	54:BV:70:ILE:HD12	1.97	0.47
36:BA:996:A:C1'	53:BU:92:ARG:HE	2.27	0.47
36:BA:1309:G:O2'	36:BA:1310:G:H5'	2.14	0.47
36:BA:1545:A:N7	36:BA:1546:C:C2	2.82	0.47
36:BA:1624:G:C4	36:BA:1625:C:C5	3.03	0.47
36:BA:1645:G:H5''	36:BA:1646:C:H5'	1.97	0.47
36:BA:1680:U:O2	36:BA:1763:G:H3'	2.15	0.47
36:BA:1720:U:H2'	36:BA:1721:G:C4'	2.44	0.47
36:BA:1799:G:H5'	36:BA:1819:A:N6	2.27	0.47
36:BA:2023:G:C5'	36:BA:2617:C:H4'	2.43	0.47
36:BA:2128:C:O2'	36:BA:2129:C:C6	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2128:C:O2'	36:BA:2129:C:H6	1.97	0.47
36:BA:2149:G:C2'	36:BA:2150:U:H5'	2.45	0.47
36:BA:2313:C:H5'	36:BA:2313:C:C6	2.48	0.47
36:BA:2359:C:C2	36:BA:2360:A:C8	3.02	0.47
36:BA:2513:G:N1	36:BA:2514:U:C2	2.83	0.47
36:BA:2578:G:H4'	36:BA:2578:G:OP2	2.15	0.47
36:BA:2641:G:OP2	46:BN:74:ARG:CZ	2.63	0.47
37:BB:87:G:C3'	37:BB:88:C:H5''	2.45	0.47
39:BD:23:GLU:OE1	39:BD:23:GLU:HA	2.14	0.47
39:BD:45:ASN:CG	39:BD:46:GLN:N	2.67	0.47
39:BD:80:ALA:O	39:BD:113:VAL:HG11	2.15	0.47
39:BD:117:VAL:HG22	39:BD:118:VAL:N	2.28	0.47
39:BD:267:SER:HA	39:BD:270:ILE:CG1	2.45	0.47
41:BF:31:HIS:O	41:BF:32:LEU:C	2.52	0.47
41:BF:63:LYS:O	41:BF:64:ILE:C	2.53	0.47
42:BG:6:ALA:HB3	42:BG:104:GLU:CD	2.35	0.47
42:BG:76:SER:HB3	42:BG:83:ARG:HB3	1.95	0.47
42:BG:100:TRP:O	42:BG:102:PHE:N	2.47	0.47
43:BH:123:PHE:N	43:BH:123:PHE:HD1	2.13	0.47
46:BN:18:ALA:HB1	46:BN:26:LEU:HD22	1.96	0.47
47:BO:7:TYR:CE1	47:BO:20:MET:HB2	2.50	0.47
48:BP:111:ARG:HH11	48:BP:149:GLU:CG	2.19	0.47
49:BQ:53:ALA:CB	49:BQ:124:LYS:HE3	2.45	0.47
51:BS:89:ARG:HG3	51:BS:92:TYR:N	2.29	0.47
53:BU:47:TYR:HA	53:BU:50:ARG:HB2	1.96	0.47
53:BU:52:ARG:HG2	53:BU:55:ARG:HH12	1.80	0.47
53:BU:112:ARG:O	53:BU:115:ALA:HB3	2.15	0.47
54:BV:28:GLU:HB3	54:BV:29:PRO:HD2	1.95	0.47
57:BY:17:SER:OG	57:BY:18:GLY:N	2.43	0.47
57:BY:26:LYS:HG2	57:BY:27:VAL:H	1.79	0.47
57:BY:76:CYS:HB3	57:BY:96:ILE:HD11	1.97	0.47
58:BZ:90:VAL:HG12	58:BZ:91:LEU:N	2.29	0.47
58:BZ:126:VAL:HA	58:BZ:163:LEU:HB2	1.97	0.47
1:CA:37:U:O2'	1:CA:38:G:H5'	2.14	0.47
1:CA:59:A:H5''	1:CA:60:A:H5''	1.97	0.47
1:CA:261:U:O2	1:CA:263:A:H8	1.98	0.47
1:CA:409:G:OP1	4:CD:22:LYS:HB3	2.15	0.47
1:CA:581:G:C6	1:CA:758:G:N7	2.83	0.47
1:CA:665:A:N3	1:CA:732:C:H2'	2.30	0.47
1:CA:682:G:C6	1:CA:683:G:N7	2.83	0.47
1:CA:692:U:H3	11:CK:53:SER:HB3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:946:A:C2	1:CA:1236:A:C2	3.03	0.47
1:CA:955:U:O2	1:CA:1225:A:N1	2.47	0.47
1:CA:963:G:H1	1:CA:972:C:N4	2.11	0.47
1:CA:982:U:H4'	1:CA:983:A:C5'	2.43	0.47
1:CA:1239:A:H4'	1:CA:1240:U:C5'	2.45	0.47
1:CA:1318:A:C1'	19:CS:37:ARG:HH21	2.28	0.47
1:CA:1328:C:H2'	1:CA:1329:A:C8	2.44	0.47
1:CA:1353:G:H2'	1:CA:1354:C:C5	2.50	0.47
1:CA:1460:A:C2	1:CA:1461:G:H1'	2.50	0.47
1:CA:1499:A:H8	1:CA:1499:A:O5'	1.97	0.47
3:CC:134:ILE:HG21	3:CC:168:ALA:HB3	1.96	0.47
4:CD:91:SER:O	4:CD:94:LEU:N	2.48	0.47
4:CD:200:GLU:HG2	4:CD:201:GLN:H	1.79	0.47
5:CE:50:GLU:HB3	5:CE:53:LEU:HB2	1.96	0.47
5:CE:53:LEU:O	5:CE:54:ALA:C	2.53	0.47
5:CE:76:ILE:HD12	5:CE:91:LEU:HB3	1.96	0.47
6:CF:23:LYS:HA	6:CF:26:ILE:HD12	1.96	0.47
8:CH:38:ILE:O	8:CH:42:GLU:HG2	2.14	0.47
8:CH:127:LEU:HD13	8:CH:127:LEU:O	2.15	0.47
9:CI:36:TYR:O	9:CI:37:PHE:CD2	2.67	0.47
9:CI:79:LEU:HD21	9:CI:102:LEU:C	2.35	0.47
9:CI:97:LYS:N	9:CI:98:PRO:CD	2.78	0.47
10:CJ:12:ASP:O	10:CJ:14:LYS:N	2.48	0.47
10:CJ:30:SER:O	10:CJ:81:THR:HG22	2.15	0.47
10:CJ:45:ARG:NE	14:CN:36:PHE:CD2	2.83	0.47
12:CL:32:PHE:CB	12:CL:84:LEU:HD21	2.45	0.47
15:CO:67:LEU:HB3	15:CO:78:TYR:HE1	1.79	0.47
16:CP:3:LYS:HB3	16:CP:65:GLN:O	2.15	0.47
16:CP:49:LEU:HD22	16:CP:73:LEU:HD22	1.96	0.47
16:CP:67:THR:HG22	16:CP:68:ASP:N	2.25	0.47
18:CR:37:VAL:CG1	18:CR:78:LEU:HB3	2.45	0.47
20:CT:58:LYS:O	20:CT:61:SER:HB3	2.14	0.47
21:CU:18:TYR:CD2	21:CU:22:ARG:NE	2.82	0.47
22:CV:2:C:H2'	22:CV:2:C:O2	2.15	0.47
22:CV:34:G:C2'	22:CV:35:A:H5'	2.45	0.47
22:CW:19:G:H4'	22:CW:20:U:OP2	2.14	0.47
25:CZ:93:ILE:HG23	25:CZ:126:VAL:HG21	1.97	0.47
25:CZ:162:GLU:HG3	63:CZ:502:KIR:H151	1.96	0.47
26:D0:67:VAL:HG13	26:D0:81:VAL:HG22	1.95	0.47
27:D1:3:LYS:HA	36:DA:1365:A:OP2	2.15	0.47
27:D1:33:LYS:CD	27:D1:33:LYS:H	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:44:PRO:O	27:D1:46:LEU:N	2.47	0.47
27:D1:82:LEU:HD12	27:D1:82:LEU:HA	1.70	0.47
29:D3:4:LEU:N	29:D3:37:LEU:O	2.33	0.47
31:D5:38:ALA:HB2	31:D5:48:GLU:HB3	1.93	0.47
32:D6:11:LEU:HG	32:D6:51:GLU:HG2	1.97	0.47
35:D9:1:MET:HE1	36:DA:2477:C:H3'	1.95	0.47
36:DA:251:A:H5''	48:DP:51:PHE:CZ	2.49	0.47
36:DA:297:C:H2'	36:DA:298:G:O4'	2.14	0.47
36:DA:445:C:H5''	53:DU:3:ARG:HB2	1.97	0.47
36:DA:477:A:H2'	36:DA:478:A:H8	1.80	0.47
36:DA:493:G:O2'	55:DW:7:ALA:HA	2.15	0.47
36:DA:587:C:H4'	36:DA:588:U:OP2	2.14	0.47
36:DA:606:U:H4'	36:DA:658:C:O2'	2.15	0.47
36:DA:630:G:H2'	36:DA:632:A:OP2	2.15	0.47
36:DA:687:C:C5	36:DA:688:U:C4	3.02	0.47
36:DA:996:A:C1'	53:DU:92:ARG:HE	2.28	0.47
36:DA:1060:U:O2'	36:DA:1061:U:OP2	2.33	0.47
36:DA:1132:A:C8	36:DA:1133:U:H5	2.33	0.47
36:DA:1222:C:OP2	54:DV:88:ARG:NH2	2.48	0.47
36:DA:1257:C:H4'	41:DF:83:PHE:CD2	2.50	0.47
36:DA:1275:A:N3	36:DA:1276:A:H1'	2.30	0.47
36:DA:1298:C:H1'	36:DA:1302:A:C2	2.49	0.47
36:DA:1331:A:O2'	36:DA:1332:G:C8	2.66	0.47
36:DA:1352:U:O2'	36:DA:1353:A:H5'	2.15	0.47
36:DA:1375:C:C2'	36:DA:1376:C:H5'	2.45	0.47
36:DA:1493:C:C4	36:DA:2206:G:O2'	2.68	0.47
36:DA:1497:U:H2'	36:DA:1497:U:O2	2.15	0.47
36:DA:1525:G:H2'	36:DA:1526:G:C8	2.50	0.47
36:DA:1592:C:H2'	36:DA:1593:G:C8	2.47	0.47
36:DA:1782:C:O2'	36:DA:1783:A:H5'	2.15	0.47
36:DA:1877:A:H3'	36:DA:1878:G:O4'	2.14	0.47
36:DA:1902:C:H2'	36:DA:1903:G:O5'	2.13	0.47
36:DA:2041:U:H2'	36:DA:2042:A:H8	1.79	0.47
36:DA:2057:A:H2'	36:DA:2058:A:C8	2.49	0.47
36:DA:2236:C:H2'	36:DA:2237:G:O4'	2.15	0.47
36:DA:2250:G:N7	49:DQ:83:MET:HG3	2.29	0.47
36:DA:2283:C:H2'	36:DA:2284:C:O4'	2.14	0.47
36:DA:2352:A:C5	36:DA:2366:A:N1	2.83	0.47
36:DA:2392:A:C2	36:DA:2429:G:C4	3.03	0.47
36:DA:2557:G:C2'	36:DA:2558:C:H5'	2.45	0.47
36:DA:2651:C:O5'	36:DA:2651:C:H6	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2652:C:C4	36:DA:2653:U:C4	3.02	0.47
36:DA:2745:C:O3'	43:DH:142:GLY:HA3	2.15	0.47
36:DA:2808:U:H5'	36:DA:2891:G:O6	2.14	0.47
36:DA:2870:C:H5''	50:DR:65:LEU:HD21	1.97	0.47
37:DB:73:A:C2	37:DB:74:U:H1'	2.49	0.47
38:DC:7:TYR:CE2	38:DC:11:LEU:HD21	2.49	0.47
38:DC:20:TYR:H	38:DC:20:TYR:HD1	1.60	0.47
38:DC:150:GLY:O	38:DC:154:ARG:HG2	2.15	0.47
39:DD:96:HIS:HE1	39:DD:102:LYS:NZ	2.13	0.47
40:DE:199:ARG:HB2	40:DE:199:ARG:NH1	2.30	0.47
41:DF:31:HIS:O	41:DF:32:LEU:C	2.53	0.47
41:DF:118:ALA:O	41:DF:119:ARG:C	2.53	0.47
41:DF:128:ALA:O	41:DF:129:PHE:CG	2.67	0.47
41:DF:159:GLY:C	41:DF:164:ARG:HH21	2.18	0.47
42:DG:103:LEU:CD2	42:DG:106:LEU:HD23	2.45	0.47
42:DG:180:PHE:HB2	42:DG:182:LYS:HZ2	1.79	0.47
43:DH:144:VAL:HA	43:DH:147:ASN:HB2	1.97	0.47
43:DH:152:ARG:O	43:DH:162:ILE:HG22	2.14	0.47
46:DN:68:GLU:HA	46:DN:86:PRO:HB2	1.96	0.47
47:DO:99:PHE:CD1	47:DO:99:PHE:N	2.81	0.47
48:DP:23:PRO:HD2	48:DP:33:ARG:CZ	2.44	0.47
48:DP:52:GLU:CG	48:DP:53:GLY:H	2.28	0.47
49:DQ:43:THR:OG1	49:DQ:46:GLN:CG	2.63	0.47
50:DR:2:ARG:HD3	50:DR:5:LYS:NZ	2.30	0.47
50:DR:2:ARG:HH11	50:DR:2:ARG:N	2.13	0.47
52:DT:22:PHE:HA	52:DT:90:GLN:OE1	2.15	0.47
52:DT:33:LYS:HG3	52:DT:43:GLN:HB2	1.96	0.47
53:DU:37:GLU:HA	53:DU:40:PHE:HE1	1.77	0.47
53:DU:52:ARG:NH2	53:DU:55:ARG:NH2	2.62	0.47
55:DW:72:LYS:O	55:DW:73:ALA:CB	2.62	0.47
57:DY:73:ARG:HA	57:DY:73:ARG:NE	2.27	0.47
1:AA:163:C:O2'	1:AA:164:U:H5'	2.15	0.47
1:AA:836:G:C5	1:AA:851:G:C6	3.02	0.47
1:AA:987:G:H2'	1:AA:988:G:C8	2.44	0.47
1:AA:993:G:H4'	1:AA:994:A:OP2	2.15	0.47
1:AA:1050:G:N2	1:AA:1051:C:C2	2.83	0.47
1:AA:1081:G:O2'	1:AA:1082:G:H5'	2.15	0.47
1:AA:1087:G:H22	1:AA:1099:G:H1'	1.79	0.47
1:AA:1128:C:N4	1:AA:1139:G:H2'	2.29	0.47
1:AA:1152:A:H5''	10:AJ:13:HIS:CB	2.44	0.47
1:AA:1424:C:C2	1:AA:1425:U:C5	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:83:MET:C	2:AB:85:ALA:H	2.17	0.47
4:AD:50:ARG:O	4:AD:51:PRO:C	2.52	0.47
4:AD:106:TYR:CE1	4:AD:113:SER:HA	2.49	0.47
9:AI:6:GLY:HA3	9:AI:84:ALA:CB	2.44	0.47
11:AK:34:ASP:C	11:AK:36:ASP:H	2.18	0.47
16:AP:23:ASP:OD1	16:AP:25:ARG:NH1	2.48	0.47
16:AP:41:PRO:C	16:AP:43:LYS:H	2.18	0.47
19:AS:16:LEU:C	19:AS:18:LYS:N	2.67	0.47
19:AS:51:VAL:CG1	19:AS:52:TYR:H	2.24	0.47
20:AT:42:GLN:HB2	20:AT:42:GLN:HE21	1.54	0.47
22:AV:19:G:N1	42:BG:83:ARG:NH2	2.62	0.47
22:AW:31:A:O2'	22:AW:32:U:H5'	2.14	0.47
22:AW:54:U:C4'	38:BC:54:SER:HB2	2.44	0.47
23:AX:22:A:N6	24:AY:36:U:H3	2.12	0.47
24:AY:77:THR:HG22	25:AZ:239:THR:HB	1.96	0.47
25:AZ:21:ASP:HA	62:AZ:501:GDP:H5'	1.96	0.47
26:B0:43:THR:CG2	36:BA:2332:U:H5'	2.45	0.47
27:B1:18:ILE:CG2	27:B1:19:GLN:N	2.78	0.47
32:B6:12:GLU:CB	32:B6:23:THR:HG22	2.45	0.47
35:B9:1:MET:HA	35:B9:4:ARG:CZ	2.44	0.47
35:B9:12:ASP:CG	35:B9:13:LYS:N	2.68	0.47
36:BA:265:A:H1'	36:BA:266:G:C1'	2.44	0.47
36:BA:271(J):C:HO2'	36:BA:271(K):U:H6	1.59	0.47
36:BA:271(V):G:C6	36:BA:271(W):G:C2	3.03	0.47
36:BA:344:G:HO2'	36:BA:345:A:H8	1.62	0.47
36:BA:347:A:H2'	36:BA:348:G:H8	1.80	0.47
36:BA:449:A:C4	36:BA:450:G:C8	3.02	0.47
36:BA:664:C:H1'	36:BA:940:G:OP1	2.14	0.47
36:BA:1400:G:C6	36:BA:1401:G:C6	3.03	0.47
36:BA:1538:G:H2'	36:BA:1539:G:C8	2.50	0.47
36:BA:1662:C:H2'	36:BA:1663:C:C6	2.50	0.47
36:BA:2136:C:O2'	36:BA:2137:C:H5'	2.15	0.47
36:BA:2481:G:HO2'	36:BA:2482:G:P	2.37	0.47
36:BA:2533:A:H2'	36:BA:2534:A:O4'	2.15	0.47
36:BA:2818:G:OP2	50:BR:42:LYS:NZ	2.46	0.47
36:BA:2839:G:H2'	36:BA:2840:C:C6	2.49	0.47
37:BB:17:C:H42	37:BB:68:C:N4	2.00	0.47
38:BC:63:SER:HA	38:BC:160:ARG:CA	2.38	0.47
38:BC:108:MET:O	38:BC:109:ASP:O	2.32	0.47
39:BD:73:VAL:C	39:BD:75:ILE:H	2.18	0.47
40:BE:55:ASN:HD22	40:BE:55:ASN:HA	1.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:129:HIS:O	40:BE:130:GLY:O	2.33	0.47
41:BF:156:LEU:HD23	41:BF:167:ALA:HB2	1.97	0.47
42:BG:62:LEU:HD12	42:BG:62:LEU:N	2.29	0.47
48:BP:16:ARG:NH1	48:BP:16:ARG:O	2.47	0.47
48:BP:101:VAL:C	48:BP:103:ALA:N	2.68	0.47
48:BP:107:LYS:O	48:BP:109:GLY:N	2.48	0.47
49:BQ:62:GLY:HA2	58:BZ:116:VAL:HG11	1.96	0.47
50:BR:36:THR:HB	50:BR:40:LYS:HD2	1.97	0.47
52:BT:8:LYS:HA	52:BT:11:GLU:OE1	2.15	0.47
52:BT:117:ASP:OD1	52:BT:119:LYS:HB3	2.15	0.47
55:BW:28:SER:HA	55:BW:70:TYR:HB2	1.97	0.47
55:BW:41:LYS:O	55:BW:43:GLY:N	2.47	0.47
56:BX:17:ALA:O	56:BX:18:TYR:C	2.53	0.47
56:BX:20:GLY:O	56:BX:22:ALA:N	2.47	0.47
58:BZ:117:LEU:CD1	58:BZ:172:ALA:HB1	2.45	0.47
1:CA:445:G:H2'	1:CA:446:G:C8	2.48	0.47
1:CA:532:A:HO2'	1:CA:533:A:P	2.38	0.47
1:CA:786:G:H2'	1:CA:787:A:O4'	2.15	0.47
1:CA:894:G:H2'	1:CA:895:G:O4'	2.15	0.47
1:CA:964:A:OP1	1:CA:1199:U:OP1	2.33	0.47
1:CA:1014:A:H2	1:CA:1219:U:H1'	1.80	0.47
1:CA:1262:C:H42	1:CA:1273:G:H1	1.63	0.47
1:CA:1425:U:O5'	1:CA:1425:U:H6	1.98	0.47
2:CB:92:TYR:CD1	2:CB:92:TYR:C	2.88	0.47
2:CB:155:LEU:HD21	2:CB:159:PRO:HG3	1.96	0.47
4:CD:129:ASN:N	4:CD:129:ASN:ND2	2.63	0.47
7:CG:27:ILE:HG23	7:CG:40:ALA:HA	1.96	0.47
8:CH:86:ILE:HG21	8:CH:133:LEU:CD2	2.35	0.47
9:CI:10:ARG:HD2	9:CI:75:ASP:OD1	2.14	0.47
9:CI:78:LYS:HE3	9:CI:101:PHE:CE2	2.50	0.47
9:CI:102:LEU:O	9:CI:102:LEU:HD23	2.14	0.47
15:CO:8:LYS:O	15:CO:9:GLN:C	2.52	0.47
19:CS:13:ASP:C	19:CS:15:LEU:H	2.18	0.47
20:CT:56:MET:SD	20:CT:85:MET:HB3	2.55	0.47
20:CT:94:ALA:O	20:CT:95:ALA:HB3	2.15	0.47
22:CW:17:C:N4	36:DA:2110:G:N2	2.59	0.47
25:CZ:92:MET:O	25:CZ:95:GLY:N	2.46	0.47
25:CZ:171:ILE:HD12	25:CZ:171:ILE:N	2.30	0.47
27:D1:18:ILE:CD1	27:D1:20:ARG:NH2	2.78	0.47
29:D3:2:PRO:O	29:D3:3:ARG:O	2.33	0.47
31:D5:3:LYS:HA	31:D5:3:LYS:CE	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:D6:19:ARG:NH2	36:DA:2401:U:OP1	2.47	0.47
32:D6:32:ASN:ND2	32:D6:33:LYS:H	2.13	0.47
36:DA:123:G:C6	36:DA:124:G:C5	3.03	0.47
36:DA:261:G:O4'	36:DA:609:A:H2	1.97	0.47
36:DA:307:G:H8	36:DA:307:G:O5'	1.98	0.47
36:DA:431:U:O5'	36:DA:431:U:H6	1.98	0.47
36:DA:572:A:C5'	54:DV:78:LYS:NZ	2.78	0.47
36:DA:664:C:H4'	36:DA:941:A:P	2.55	0.47
36:DA:747:U:H4'	55:DW:89:ALA:HB3	1.97	0.47
36:DA:992:C:C2	36:DA:1163:G:N2	2.83	0.47
36:DA:1132:A:C8	36:DA:1133:U:C5	3.02	0.47
36:DA:1720:U:H3'	36:DA:1721:G:H5''	1.96	0.47
36:DA:1800:C:H42	36:DA:1817:G:N2	2.13	0.47
36:DA:2069:G:N2	36:DA:2070:G:C4	2.83	0.47
36:DA:2140:C:H2'	36:DA:2141:G:C8	2.49	0.47
36:DA:2359:C:C4	36:DA:2360:A:C5	3.03	0.47
36:DA:2388:A:H5'	36:DA:2389:G:OP2	2.14	0.47
36:DA:2402:C:O2'	36:DA:2403:C:H5'	2.14	0.47
36:DA:2639:A:H3'	36:DA:2640:G:C8	2.49	0.47
36:DA:2754:U:H2'	36:DA:2756:U:OP1	2.14	0.47
39:DD:24:ILE:CD1	39:DD:25:THR:N	2.77	0.47
41:DF:107:LYS:O	41:DF:110:LEU:N	2.47	0.47
42:DG:26:GLN:HG2	42:DG:27:ASN:H	1.78	0.47
42:DG:170:ARG:NE	42:DG:180:PHE:CE1	2.83	0.47
47:DO:8:LEU:HD22	47:DO:19:ILE:HG13	1.97	0.47
47:DO:105:GLU:O	47:DO:109:LYS:CG	2.63	0.47
52:DT:107:ASP:OD2	52:DT:108:ARG:HG2	2.14	0.47
54:DV:75:PHE:HB2	54:DV:82:ARG:HG3	1.95	0.47
56:DX:49:VAL:CB	56:DX:87:GLN:NE2	2.78	0.47
57:DY:28:LYS:HA	57:DY:38:ILE:HG22	1.97	0.47
1:AA:15:G:H2'	1:AA:16:A:H8	1.80	0.47
1:AA:45:U:H2'	1:AA:46:G:H8	1.79	0.47
1:AA:123:C:H6	1:AA:123:C:O5'	1.98	0.47
1:AA:540:G:O2'	1:AA:541:G:H5'	2.15	0.47
1:AA:681:C:O2'	1:AA:682:G:H5'	2.15	0.47
1:AA:851:G:C4	1:AA:852:G:C8	3.03	0.47
1:AA:1150:U:O4	1:AA:1151:A:N6	2.48	0.47
1:AA:1209:C:O2'	1:AA:1210:C:H5'	2.14	0.47
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.96	0.47
1:AA:1242:C:H2'	1:AA:1243:C:H6	1.78	0.47
1:AA:1279:A:H2	10:AJ:43:ARG:HH12	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1466:C:O2'	1:AA:1467:G:H5'	2.15	0.47
2:AB:149:LEU:O	2:AB:150:SER:C	2.53	0.47
3:AC:18:TRP:HB2	3:AC:21:ARG:HB3	1.96	0.47
4:AD:70:ILE:HD12	4:AD:97:LEU:HD21	1.97	0.47
4:AD:79:PHE:CD2	4:AD:207:TYR:CD1	3.02	0.47
9:AI:18:PHE:O	9:AI:19:LEU:HD23	2.15	0.47
10:AJ:30:SER:O	10:AJ:81:THR:HG22	2.15	0.47
10:AJ:62:HIS:O	14:AN:59:ALA:HB3	2.15	0.47
14:AN:21:TYR:CE2	14:AN:23:ARG:NH2	2.83	0.47
15:AO:28:GLN:O	15:AO:31:LEU:HB3	2.14	0.47
19:AS:35:SER:O	19:AS:37:ARG:N	2.48	0.47
21:AU:2:GLY:C	21:AU:4:GLY:N	2.67	0.47
22:AW:66:U:H2'	22:AW:67:C:H6	1.80	0.47
25:AZ:200:TRP:C	25:AZ:202:LEU:N	2.66	0.47
25:AZ:208:GLU:O	25:AZ:209:TYR:HB3	2.14	0.47
26:B0:30:VAL:CG1	26:B0:66:VAL:HG23	2.45	0.47
28:B2:32:LEU:CB	28:B2:53:LEU:HD22	2.44	0.47
28:B2:57:ILE:HG22	28:B2:61:LEU:HD11	1.97	0.47
31:B5:31:VAL:HG11	36:BA:2886:G:N2	2.25	0.47
32:B6:15:GLU:HG3	32:B6:47:THR:OG1	2.13	0.47
34:B8:49:VAL:HB	34:B8:53:PRO:HG3	1.97	0.47
36:BA:121:G:H4'	36:BA:149:A:H5'	1.96	0.47
36:BA:466:A:C2'	36:BA:467:G:H5'	2.45	0.47
36:BA:1053:C:C5	36:BA:1054:A:N7	2.83	0.47
36:BA:1323:U:C2'	36:BA:1324:G:H5'	2.45	0.47
36:BA:1360:A:N6	36:BA:1372:U:C4	2.82	0.47
36:BA:1515:G:H2'	36:BA:1516:C:C6	2.49	0.47
36:BA:2007:C:H5'	36:BA:2824:C:O4'	2.14	0.47
36:BA:2208:A:N3	36:BA:2219:G:C6	2.83	0.47
36:BA:2485:G:C5'	49:BQ:46:GLN:HE21	2.27	0.47
36:BA:2497:A:OP2	36:BA:2497:A:C8	2.67	0.47
36:BA:2675:A:H5'	47:BO:31:LYS:HZ1	1.80	0.47
36:BA:2754:U:H2'	36:BA:2756:U:OP1	2.15	0.47
36:BA:2851:A:C2'	36:BA:2852:G:H5'	2.44	0.47
38:BC:7:TYR:CE2	38:BC:11:LEU:HD21	2.50	0.47
40:BE:52:LEU:O	40:BE:74:PRO:CB	2.63	0.47
41:BF:49:ALA:HB1	41:BF:92:PRO:HB3	1.97	0.47
41:BF:62:ARG:HG2	41:BF:62:ARG:NH1	2.30	0.47
43:BH:148:ILE:HG22	43:BH:162:ILE:HD13	1.97	0.47
46:BN:103:VAL:O	46:BN:104:LYS:C	2.52	0.47
48:BP:9:ASN:N	48:BP:10:PRO:CD	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:61:ARG:C	48:BP:62:LEU:HD23	2.35	0.47
48:BP:106:LEU:HD11	48:BP:112:LEU:CD2	2.44	0.47
49:BQ:10:ARG:NH1	49:BQ:10:ARG:CB	2.77	0.47
49:BQ:55:VAL:HA	49:BQ:58:PHE:HE1	1.80	0.47
50:BR:17:ARG:HB3	50:BR:17:ARG:HH11	1.80	0.47
50:BR:73:VAL:CG1	50:BR:77:ARG:HH12	2.28	0.47
51:BS:89:ARG:HG3	51:BS:92:TYR:CB	2.44	0.47
52:BT:23:ARG:O	52:BT:24:PRO:C	2.53	0.47
57:BY:14:LEU:HD12	57:BY:15:VAL:H	1.79	0.47
1:CA:674:G:H2'	1:CA:675:A:C8	2.50	0.47
1:CA:750:G:C2	15:CO:23:GLY:HA3	2.49	0.47
1:CA:889:A:H4'	1:CA:890:G:OP1	2.13	0.47
1:CA:1245:A:H2'	1:CA:1246:C:H6	1.80	0.47
1:CA:1305:G:C8	1:CA:1305:G:OP2	2.68	0.47
1:CA:1349:A:H2'	1:CA:1350:A:H8	1.78	0.47
1:CA:1412:C:N4	1:CA:1488:G:H1	1.96	0.47
1:CA:1430:C:O2'	1:CA:1431:C:H5'	2.14	0.47
2:CB:74:LYS:HG3	2:CB:74:LYS:O	2.15	0.47
4:CD:145:GLU:CG	4:CD:184:LYS:HG2	2.45	0.47
5:CE:11:ILE:HD12	5:CE:31:LEU:HD11	1.94	0.47
8:CH:20:TYR:HE2	8:CH:75:ARG:CD	2.27	0.47
8:CH:26:VAL:HG23	8:CH:27:PRO:HD2	1.97	0.47
11:CK:69:ALA:O	11:CK:70:LYS:C	2.51	0.47
12:CL:41:ARG:HH11	12:CL:41:ARG:CG	2.23	0.47
15:CO:37:ASN:N	15:CO:37:ASN:ND2	2.63	0.47
22:CW:16:U:C4	22:CW:19:G:OP1	2.68	0.47
24:CY:48:C:C2'	24:CY:59:A:H1'	2.33	0.47
25:CZ:38:GLU:OE1	25:CZ:200:TRP:CH2	2.67	0.47
25:CZ:136:ASN:O	25:CZ:137:LYS:HB2	2.15	0.47
25:CZ:137:LYS:HD3	62:CZ:501:GDP:C2	2.50	0.47
25:CZ:196:VAL:O	25:CZ:200:TRP:CD1	2.68	0.47
25:CZ:316:PHE:HA	25:CZ:404:LEU:H	1.78	0.47
25:CZ:342:PHE:N	25:CZ:342:PHE:CD1	2.83	0.47
26:D0:51:VAL:HG22	26:D0:81:VAL:HG23	1.97	0.47
28:D2:30:ARG:O	28:D2:33:MET:HB3	2.15	0.47
30:D4:28:LYS:HA	30:D4:28:LYS:HE3	1.95	0.47
32:D6:53:LYS:HE2	32:D6:54:ILE:HA	1.97	0.47
34:D8:43:GLN:C	34:D8:44:LYS:HD2	2.34	0.47
36:DA:37:C:O2	36:DA:444:C:C2	2.68	0.47
36:DA:115:C:O2'	36:DA:116:C:H5'	2.15	0.47
36:DA:310:A:O2'	36:DA:311:A:O5'	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:363:G:C2	36:DA:363(A):A:C8	3.03	0.47
36:DA:558:G:H2'	36:DA:559:G:H8	1.80	0.47
36:DA:591:C:H2'	36:DA:592:G:H8	1.80	0.47
36:DA:593:G:C2'	36:DA:594:U:H5'	2.45	0.47
36:DA:769:G:C4'	36:DA:1379:A:N6	2.77	0.47
36:DA:1298:C:C1'	36:DA:1302:A:C2	2.98	0.47
36:DA:2787:C:C2'	40:DE:61:ARG:HD3	2.45	0.47
36:DA:2815:C:H2'	36:DA:2815:C:O2	2.14	0.47
37:DB:81:G:C6	37:DB:97:G:C2	3.03	0.47
38:DC:178:ALA:O	38:DC:180:PHE:N	2.48	0.47
39:DD:127:VAL:HA	39:DD:193:VAL:HG13	1.95	0.47
39:DD:267:SER:O	39:DD:269:PHE:N	2.38	0.47
40:DE:57:LYS:HE2	40:DE:59:VAL:CG1	2.43	0.47
40:DE:108:SER:O	40:DE:162:ALA:N	2.48	0.47
41:DF:46:ARG:HG2	41:DF:48:THR:HG23	1.97	0.47
42:DG:60:LEU:HA	42:DG:63:ILE:CD1	2.45	0.47
43:DH:18:GLU:HB2	43:DH:25:LYS:HB2	1.96	0.47
46:DN:24:GLY:H	46:DN:27:ALA:N	2.02	0.47
50:DR:76:VAL:O	50:DR:79:LEU:HB3	2.15	0.47
52:DT:28:VAL:O	52:DT:29:ARG:CB	2.62	0.47
52:DT:35:LYS:NZ	52:DT:41:ARG:HD2	2.30	0.47
54:DV:46:VAL:O	54:DV:46:VAL:HG13	2.13	0.47
55:DW:12:ILE:CG1	55:DW:42:ARG:NH1	2.77	0.47
56:DX:68:ARG:HG3	56:DX:69:TYR:CE1	2.50	0.47
58:DZ:10:ARG:HB2	58:DZ:37:VAL:CA	2.45	0.47
1:AA:169:C:O2	1:AA:169:C:H2'	2.15	0.47
1:AA:294:U:H2'	1:AA:295:C:C6	2.50	0.47
1:AA:472:A:O2'	16:AP:81:ARG:HA	2.15	0.47
1:AA:548:G:O2'	1:AA:549:C:H5'	2.15	0.47
1:AA:563:A:N3	1:AA:563:A:C2'	2.77	0.47
1:AA:862:C:O2'	1:AA:863:U:H5'	2.15	0.47
1:AA:900:A:H2'	1:AA:901:A:C8	2.51	0.47
1:AA:963:G:H1	1:AA:972:C:N4	2.13	0.47
1:AA:1092:A:C6	1:AA:1093:A:C6	3.02	0.47
1:AA:1152:A:O2'	1:AA:1153:C:C5'	2.60	0.47
1:AA:1191:A:OP1	3:AC:4:LYS:HG2	2.15	0.47
1:AA:1204:A:H2'	1:AA:1205:U:O4'	2.13	0.47
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.80	0.47
1:AA:1426:C:C2	1:AA:1427:U:C5	3.02	0.47
2:AB:14:GLY:O	2:AB:15:VAL:HG22	2.15	0.47
2:AB:21:ARG:CZ	2:AB:39:ILE:CG1	2.89	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:24:TRP:CZ3	2:AB:26:PRO:CA	2.90	0.47
2:AB:92:TYR:OH	2:AB:150:SER:HB3	2.15	0.47
4:AD:105:VAL:HG21	4:AD:126:ILE:HG12	1.95	0.47
4:AD:138:TYR:CE2	4:AD:139:ARG:O	2.68	0.47
5:AE:98:THR:HG22	5:AE:99:GLY:O	2.14	0.47
6:AF:62:TRP:NE1	18:AR:35:ARG:CZ	2.78	0.47
9:AI:22:GLY:O	9:AI:58:HIS:C	2.53	0.47
9:AI:56:LEU:O	9:AI:56:LEU:HD23	2.15	0.47
10:AJ:4:ILE:O	10:AJ:74:ILE:CG1	2.63	0.47
10:AJ:8:LEU:CD2	10:AJ:96:ILE:HG22	2.45	0.47
11:AK:66:LEU:O	11:AK:69:ALA:CB	2.60	0.47
12:AL:10:LEU:O	12:AL:14:GLY:N	2.43	0.47
12:AL:41:ARG:CD	12:AL:42:THR:H	2.28	0.47
12:AL:84:LEU:O	12:AL:101:VAL:HG23	2.15	0.47
13:AM:59:TYR:O	13:AM:63:THR:N	2.48	0.47
16:AP:67:THR:HG22	16:AP:68:ASP:N	2.24	0.47
18:AR:37:VAL:CG2	18:AR:38:GLU:N	2.78	0.47
25:AZ:145:GLU:O	25:AZ:146:LEU:C	2.52	0.47
27:B1:45:ASN:HA	36:BA:2230:G:C1'	2.44	0.47
28:B2:20:GLU:O	28:B2:20:GLU:OE1	2.33	0.47
28:B2:59:ARG:HB2	36:BA:77:C:H5'	1.97	0.47
28:B2:63:VAL:C	28:B2:65:ASN:H	2.17	0.47
30:B4:22:ILE:H	30:B4:22:ILE:CD1	2.00	0.47
32:B6:35:GLU:CB	32:B6:51:GLU:HG3	2.45	0.47
35:B9:35:ARG:O	35:B9:36:GLN:O	2.33	0.47
36:BA:20:C:C2	36:BA:21:A:C8	3.03	0.47
36:BA:251:A:H5''	48:BP:51:PHE:HZ	1.79	0.47
36:BA:271(E):U:H2'	36:BA:271(F):C:C5	2.49	0.47
36:BA:406:G:C6	36:BA:407:G:C6	3.03	0.47
36:BA:733:G:C5	36:BA:761:A:C6	3.03	0.47
36:BA:942:G:H2'	36:BA:943:U:O4'	2.15	0.47
36:BA:1744:C:O2'	36:BA:1745:C:H5'	2.15	0.47
36:BA:2121:G:H2'	36:BA:2122:U:H6	1.78	0.47
37:BB:81:G:C2	37:BB:82:G:N7	2.83	0.47
37:BB:112:U:H2'	37:BB:113:G:H8	1.78	0.47
38:BC:106:GLY:O	38:BC:107:TRP:HB2	2.15	0.47
38:BC:183:GLU:CD	38:BC:183:GLU:N	2.66	0.47
39:BD:24:ILE:CD1	39:BD:25:THR:N	2.77	0.47
40:BE:4:ILE:HD12	40:BE:92:THR:O	2.16	0.47
40:BE:144:ARG:O	40:BE:146:THR:N	2.47	0.47
42:BG:130:ASN:O	42:BG:131:TYR:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:146:TYR:C	42:BG:148:MET:N	2.62	0.47
49:BQ:21:THR:HG23	49:BQ:101:ARG:HB2	1.95	0.47
49:BQ:77:LYS:HD3	49:BQ:81:VAL:CG1	2.45	0.47
50:BR:107:ASP:O	50:BR:109:ALA:N	2.48	0.47
51:BS:28:VAL:O	51:BS:29:PHE:HB2	2.15	0.47
51:BS:99:LYS:O	51:BS:101:LEU:N	2.48	0.47
52:BT:29:ARG:CB	52:BT:85:LYS:HA	2.45	0.47
52:BT:89:VAL:O	52:BT:90:GLN:C	2.53	0.47
52:BT:94:ALA:C	52:BT:96:ARG:N	2.67	0.47
52:BT:96:ARG:HB2	52:BT:96:ARG:NH1	2.29	0.47
52:BT:118:ARG:O	52:BT:122:ASP:N	2.38	0.47
56:BX:46:ALA:C	56:BX:47:PHE:HD1	2.18	0.47
56:BX:46:ALA:O	56:BX:47:PHE:CD1	2.68	0.47
57:BY:63:LYS:HG2	57:BY:64:GLU:H	1.80	0.47
57:BY:67:LEU:HD23	57:BY:68:HIS:H	1.80	0.47
58:BZ:20:ARG:HG3	58:BZ:21:ALA:H	1.80	0.47
58:BZ:119:GLU:HG3	58:BZ:122:ARG:NH1	2.30	0.47
1:CA:47:C:O2'	1:CA:48:C:P	2.73	0.47
1:CA:580:U:H3	1:CA:761:G:H1	1.63	0.47
1:CA:1195:C:H2'	1:CA:1197:G:O4'	2.14	0.47
1:CA:1353:G:C4	1:CA:1354:C:C5	3.03	0.47
1:CA:1500:A:OP1	1:CA:1508:G:OP1	2.33	0.47
2:CB:8:LYS:HZ1	2:CB:217:ARG:HH12	1.62	0.47
2:CB:22:LYS:HE3	2:CB:40:HIS:CE1	2.50	0.47
2:CB:138:LEU:C	2:CB:140:HIS:H	2.18	0.47
4:CD:100:ARG:O	4:CD:101:LEU:C	2.53	0.47
5:CE:101:ILE:O	5:CE:120:THR:CG2	2.61	0.47
6:CF:79:LEU:HD12	6:CF:88:VAL:HG11	1.96	0.47
7:CG:118:VAL:O	7:CG:121:ALA:N	2.47	0.47
8:CH:19:VAL:O	8:CH:21:LYS:N	2.48	0.47
9:CI:11:LYS:C	9:CI:13:ALA:N	2.68	0.47
12:CL:79:GLU:O	12:CL:79:GLU:HG2	2.15	0.47
14:CN:47:LEU:C	14:CN:49:HIS:N	2.67	0.47
15:CO:35:ARG:NH2	15:CO:59:MET:CE	2.78	0.47
15:CO:64:ARG:O	15:CO:66:LEU:N	2.48	0.47
15:CO:75:PRO:O	15:CO:79:ARG:HG3	2.15	0.47
15:CO:82:ILE:O	15:CO:86:GLY:N	2.47	0.47
18:CR:63:GLN:HA	18:CR:63:GLN:OE1	2.15	0.47
19:CS:31:ILE:HG23	19:CS:31:ILE:O	2.15	0.47
20:CT:82:SER:O	20:CT:86:ARG:HB2	2.14	0.47
25:CZ:126:VAL:O	25:CZ:126:VAL:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:273:HIS:C	25:CZ:275:LYS:H	2.18	0.47
25:CZ:313:HIS:HB3	25:CZ:403:ILE:CG2	2.43	0.47
25:CZ:339:ARG:CZ	25:CZ:352:VAL:HG22	2.45	0.47
28:D2:32:LEU:HB2	28:D2:53:LEU:HD22	1.97	0.47
28:D2:50:ILE:HG21	36:DA:61:G:H5'	1.96	0.47
35:D9:11:CYS:HG	60:D9:101:ZN:ZN	1.29	0.47
36:DA:441:U:O2'	36:DA:442:G:H5'	2.15	0.47
36:DA:628:G:O2'	36:DA:629:G:H5''	2.15	0.47
36:DA:631:A:H5''	48:DP:65:ARG:HG2	1.97	0.47
36:DA:654(H):G:H2'	36:DA:654(I):C:H5'	1.96	0.47
36:DA:733:G:C5	36:DA:761:A:C6	3.02	0.47
36:DA:783:A:H2'	36:DA:784:A:H4'	1.97	0.47
36:DA:793:A:OP2	36:DA:2072:G:H5'	2.15	0.47
36:DA:960:A:N6	36:DA:962:G:C2	2.83	0.47
36:DA:979:G:C2	36:DA:982:C:C5	3.03	0.47
36:DA:1244:G:H8	36:DA:1244:G:H5'	1.80	0.47
36:DA:1432:C:H2'	36:DA:1433:U:C6	2.50	0.47
36:DA:1471:A:OP2	36:DA:1519:G:N1	2.48	0.47
36:DA:1538:G:H2'	36:DA:1539:G:H8	1.79	0.47
36:DA:1625:C:O2'	36:DA:1626:G:H5'	2.15	0.47
36:DA:1655:A:C2	36:DA:2049:G:H4'	2.50	0.47
36:DA:1892:C:H2'	36:DA:1893:C:H6	1.80	0.47
36:DA:2009:G:H4'	55:DW:40:ASN:HD21	1.76	0.47
36:DA:2026:C:N4	36:DA:2037:G:H1	2.11	0.47
36:DA:2259:G:O2'	36:DA:2260:C:H5'	2.15	0.47
36:DA:2475:C:N4	36:DA:2529:G:H22	2.10	0.47
36:DA:2533:A:H2'	36:DA:2534:A:C5'	2.45	0.47
36:DA:2580:U:C5	36:DA:2581:G:C5	3.03	0.47
36:DA:2654:A:N3	36:DA:2656:U:C4	2.83	0.47
38:DC:183:GLU:CD	38:DC:183:GLU:N	2.66	0.47
39:DD:85:ASP:HB2	39:DD:92:ILE:HG23	1.97	0.47
39:DD:112:GLN:HB2	39:DD:115:GLN:NE2	2.29	0.47
42:DG:26:GLN:OE1	42:DG:26:GLN:N	2.48	0.47
42:DG:58:GLN:O	42:DG:61:ALA:CB	2.63	0.47
42:DG:179:PRO:O	42:DG:180:PHE:CD2	2.68	0.47
49:DQ:133:ARG:HB3	49:DQ:134:ARG:H	1.44	0.47
50:DR:25:ALA:O	50:DR:29:LEU:HB2	2.15	0.47
51:DS:12:PHE:CD2	51:DS:12:PHE:C	2.86	0.47
51:DS:46:VAL:HG12	51:DS:47:THR:N	2.24	0.47
52:DT:27:THR:O	52:DT:28:VAL:CG2	2.52	0.47
52:DT:61:PHE:O	52:DT:75:ILE:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:2:ARG:O	57:DY:4:LYS:N	2.48	0.47
57:DY:46:LYS:H	57:DY:62:GLU:CG	2.03	0.47
57:DY:49:VAL:O	57:DY:50:ARG:HB2	2.15	0.47
57:DY:67:LEU:HD23	57:DY:68:HIS:H	1.79	0.47
58:DZ:67:LEU:CD1	58:DZ:67:LEU:N	2.78	0.47
58:DZ:69:THR:CG2	58:DZ:90:VAL:HA	2.43	0.47
58:DZ:133:ILE:N	58:DZ:134:PRO:HD3	2.30	0.47
1:AA:69:G:O2'	1:AA:70:G:H5'	2.15	0.46
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.50	0.46
1:AA:585:G:H1	1:AA:756:C:N4	2.11	0.46
1:AA:1463:C:H5'	52:BT:115:ARG:NH2	2.29	0.46
1:AA:1520:G:O2'	1:AA:1521:G:O5'	2.32	0.46
4:AD:9:CYS:SG	4:AD:32:ALA:HB2	2.55	0.46
4:AD:14:ARG:HG3	4:AD:15:GLU:OE1	2.15	0.46
5:AE:48:ALA:C	5:AE:50:GLU:N	2.68	0.46
5:AE:76:ILE:CG2	5:AE:93:PRO:HA	2.44	0.46
8:AH:2:LEU:CD2	8:AH:3:THR:N	2.77	0.46
11:AK:18:ARG:O	11:AK:32:ILE:HG23	2.16	0.46
12:AL:60:LEU:C	12:AL:62:SER:N	2.69	0.46
19:AS:67:VAL:C	19:AS:69:HIS:H	2.18	0.46
25:AZ:67:HIS:CD2	25:AZ:80:VAL:HG13	2.50	0.46
25:AZ:189:ARG:CG	25:AZ:190:ARG:N	2.48	0.46
25:AZ:313:HIS:CB	25:AZ:403:ILE:HG21	2.44	0.46
26:B0:10:THR:HG23	26:B0:12:ASN:OD1	2.15	0.46
26:B0:58:THR:CG2	26:B0:59:LEU:N	2.78	0.46
27:B1:7:ILE:HB	27:B1:62:VAL:HG23	1.96	0.46
28:B2:5:GLU:CG	28:B2:9:GLN:HE22	2.28	0.46
29:B3:19:GLN:C	29:B3:21:ALA:N	2.69	0.46
30:B4:14:ILE:HD12	30:B4:14:ILE:H	1.80	0.46
36:BA:7:G:O2'	36:BA:8:A:H5'	2.16	0.46
36:BA:188:G:H2'	36:BA:189:G:O4'	2.15	0.46
36:BA:245:G:H2'	36:BA:246:C:C6	2.50	0.46
36:BA:267:C:H2'	36:BA:268:C:H6	1.80	0.46
36:BA:499:U:H1'	57:BY:47:LYS:HZ1	1.80	0.46
36:BA:631:A:H5''	48:BP:65:ARG:HG2	1.97	0.46
36:BA:664:C:O4'	36:BA:940:G:H5''	2.14	0.46
36:BA:873:G:H2'	36:BA:874:G:H8	1.79	0.46
36:BA:1298:C:H1'	36:BA:1302:A:C2	2.50	0.46
36:BA:1386:C:H2'	36:BA:1387:C:C6	2.50	0.46
36:BA:1410:G:H2'	36:BA:1411:C:C6	2.49	0.46
36:BA:1469:A:H2'	36:BA:1470:G:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1502:C:H5'	36:BA:1503:U:OP2	2.13	0.46
36:BA:1563:G:H2'	36:BA:1564:C:H6	1.80	0.46
36:BA:1764:G:H2'	36:BA:1765:C:H6	1.80	0.46
36:BA:1887:C:H2'	36:BA:1888:G:C5'	2.16	0.46
36:BA:2582:G:N2	36:BA:2583:G:C1'	2.78	0.46
36:BA:2618:G:H21	40:BE:150:VAL:HG21	1.79	0.46
36:BA:2681:C:C5	36:BA:2727:G:N2	2.84	0.46
36:BA:2708:G:C4	36:BA:2709:G:N7	2.83	0.46
36:BA:2792:G:O2'	36:BA:2793:G:H5'	2.15	0.46
39:BD:112:GLN:H	39:BD:115:GLN:HE22	1.56	0.46
39:BD:273:ARG:HH11	39:BD:273:ARG:CG	2.28	0.46
40:BE:24:THR:HG21	40:BE:188:VAL:CG1	2.33	0.46
40:BE:171:GLU:O	40:BE:173:VAL:N	2.48	0.46
42:BG:36:LYS:CG	42:BG:37:VAL:N	2.78	0.46
42:BG:139:LEU:HA	42:BG:144:ILE:HG23	1.97	0.46
42:BG:173:LEU:O	42:BG:176:LEU:HB2	2.15	0.46
43:BH:31:GLY:O	43:BH:79:VAL:HG12	2.15	0.46
43:BH:148:ILE:HG22	43:BH:162:ILE:CD1	2.45	0.46
45:BK:99:UNK:O	45:BK:135:UNK:O	2.33	0.46
46:BN:39:ARG:O	46:BN:41:ASP:N	2.44	0.46
47:BO:104:ARG:HB2	47:BO:104:ARG:HH11	1.80	0.46
49:BQ:92:GLY:C	49:BQ:93:TYR:CD1	2.88	0.46
49:BQ:126:PRO:HG2	49:BQ:127:ILE:HG23	1.97	0.46
51:BS:56:LEU:O	51:BS:58:LEU:N	2.48	0.46
52:BT:50:ILE:HG22	52:BT:51:ARG:N	2.30	0.46
55:BW:6:ILE:HG12	55:BW:104:THR:HA	1.97	0.46
56:BX:35:THR:HG21	56:BX:37:THR:HB	1.97	0.46
56:BX:46:ALA:C	56:BX:47:PHE:CD1	2.88	0.46
1:CA:123:C:H6	1:CA:123:C:O5'	1.98	0.46
1:CA:136:C:H2'	1:CA:137:C:C6	2.50	0.46
1:CA:258:G:O2'	1:CA:259:G:H5'	2.15	0.46
1:CA:370:C:H2'	1:CA:371:G:C8	2.50	0.46
1:CA:507:C:P	1:CA:508:C:H3'	2.56	0.46
1:CA:837:G:C2'	1:CA:838:G:H5'	2.45	0.46
1:CA:858:G:C6	1:CA:869:G:C8	3.04	0.46
1:CA:940:C:O5'	1:CA:940:C:H6	1.98	0.46
1:CA:1307:U:O5'	1:CA:1307:U:H6	1.98	0.46
2:CB:154:LEU:HD23	2:CB:156:LYS:HZ2	1.79	0.46
3:CC:18:TRP:N	3:CC:18:TRP:CE3	2.83	0.46
4:CD:92:VAL:O	4:CD:93:PHE:C	2.52	0.46
4:CD:92:VAL:HG12	4:CD:96:LEU:HD13	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:6:GLY:CA	9:CI:84:ALA:HB2	2.44	0.46
13:CM:49:THR:C	13:CM:51:ALA:N	2.67	0.46
15:CO:74:ASP:OD1	15:CO:77:ARG:HG2	2.14	0.46
16:CP:41:PRO:C	16:CP:43:LYS:H	2.18	0.46
17:CQ:30:PRO:HG2	17:CQ:31:LEU:H	1.80	0.46
18:CR:45:SER:H	18:CR:51:LEU:HG	1.79	0.46
19:CS:51:VAL:CG1	19:CS:52:TYR:H	2.26	0.46
20:CT:17:ARG:C	20:CT:19:SER:N	2.68	0.46
22:CV:20:U:C5'	22:CV:21:A:OP2	2.63	0.46
25:CZ:29:ALA:HB3	25:CZ:179:LEU:HD22	1.97	0.46
25:CZ:331:HIS:CD2	25:CZ:332:THR:HG23	2.51	0.46
25:CZ:402:LYS:HG2	25:CZ:403:ILE:N	2.29	0.46
26:D0:7:LEU:HD21	49:DQ:81:VAL:CG2	2.45	0.46
27:D1:23:LYS:HD3	27:D1:28:GLY:HA3	1.96	0.46
27:D1:81:LYS:O	27:D1:82:LEU:HD12	2.14	0.46
29:D3:56:VAL:CG1	29:D3:57:GLU:H	2.23	0.46
33:D7:31:LEU:C	33:D7:33:ARG:H	2.17	0.46
36:DA:153:C:H2'	36:DA:154:G:H8	1.80	0.46
36:DA:185:U:N3	36:DA:212:G:N2	2.63	0.46
36:DA:271(E):U:H2'	36:DA:271(F):C:C5	2.51	0.46
36:DA:635:C:O2'	36:DA:639:U:OP1	2.33	0.46
36:DA:723:G:H2'	36:DA:724:U:O4'	2.14	0.46
36:DA:806:C:H2'	36:DA:807:U:H6	1.79	0.46
36:DA:827:U:H4'	36:DA:828:U:O2	2.15	0.46
36:DA:917:A:C2	37:DB:79:C:O2	2.68	0.46
36:DA:980:A:C6	36:DA:981:A:C2	3.02	0.46
36:DA:1005:C:O5'	36:DA:1005:C:H6	1.98	0.46
36:DA:1637:A:H4'	36:DA:2711:A:O2'	2.15	0.46
36:DA:1654:A:OP1	50:DR:3:HIS:N	2.49	0.46
36:DA:1655:A:H1'	40:DE:113:PHE:HD2	1.80	0.46
36:DA:1668:A:N3	36:DA:1670:C:N3	2.63	0.46
36:DA:2001:A:H4'	36:DA:2689:U:C2'	2.44	0.46
36:DA:2020:A:O2'	36:DA:2021:C:C5'	2.57	0.46
36:DA:2414:G:C2	36:DA:2415:G:C8	3.03	0.46
36:DA:2507:C:H2'	36:DA:2508:G:O4'	2.15	0.46
36:DA:2563:U:N3	36:DA:2566:A:OP2	2.40	0.46
36:DA:2695:C:H2'	36:DA:2696:U:C6	2.50	0.46
36:DA:2811:G:H1	36:DA:2889:C:H42	1.63	0.46
36:DA:2864:G:H2'	36:DA:2865:U:O4'	2.15	0.46
37:DB:115:G:C4'	51:DS:47:THR:HB	2.45	0.46
39:DD:73:VAL:C	39:DD:75:ILE:H	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:39:TRP:CZ3	41:DF:106:ARG:HD2	2.49	0.46
42:DG:67:LYS:HD3	42:DG:67:LYS:H	1.77	0.46
42:DG:73:ALA:H	42:DG:87:PRO:HD2	1.79	0.46
42:DG:77:ILE:C	42:DG:79:ASN:N	2.68	0.46
46:DN:27:ALA:O	46:DN:28:THR:C	2.54	0.46
50:DR:97:VAL:O	50:DR:98:LEU:HD23	2.15	0.46
51:DS:24:LEU:N	51:DS:24:LEU:HD22	2.29	0.46
51:DS:36:TYR:CD1	51:DS:36:TYR:N	2.83	0.46
51:DS:99:LYS:O	51:DS:101:LEU:N	2.48	0.46
55:DW:70:TYR:HE1	55:DW:72:LYS:HA	1.79	0.46
57:DY:76:CYS:HB3	57:DY:96:ILE:HD11	1.97	0.46
58:DZ:29:TYR:O	58:DZ:89:PHE:HA	2.15	0.46
58:DZ:48:PHE:O	58:DZ:50:GLN:N	2.48	0.46
58:DZ:67:LEU:CD1	58:DZ:67:LEU:H	2.28	0.46
1:AA:51:A:H4'	1:AA:52:G:O5'	2.15	0.46
1:AA:80:G:C3'	1:AA:81:U:C5'	2.90	0.46
1:AA:254:G:H2'	1:AA:255:G:C8	2.51	0.46
1:AA:370:C:H2'	1:AA:371:G:C8	2.49	0.46
1:AA:1118:C:OP1	9:AI:104:ARG:NH1	2.48	0.46
1:AA:1191:A:P	3:AC:4:LYS:HZ3	2.38	0.46
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.81	0.46
2:AB:8:LYS:O	2:AB:12:GLU:HG3	2.15	0.46
2:AB:62:ALA:C	2:AB:64:ARG:H	2.18	0.46
2:AB:238:LEU:HG	2:AB:238:LEU:O	2.14	0.46
4:AD:18:LYS:HE2	4:AD:20:TYR:CE2	2.51	0.46
4:AD:200:GLU:O	4:AD:202:LEU:N	2.49	0.46
5:AE:7:GLU:HB3	5:AE:112:LEU:HD21	1.97	0.46
5:AE:79:GLU:N	5:AE:93:PRO:HD3	2.30	0.46
8:AH:14:ARG:HG3	8:AH:83:ILE:HG21	1.97	0.46
8:AH:33:GLU:O	8:AH:36:LEU:N	2.48	0.46
9:AI:11:LYS:C	9:AI:13:ALA:N	2.68	0.46
10:AJ:40:LEU:N	10:AJ:40:LEU:CD2	2.73	0.46
18:AR:37:VAL:O	18:AR:41:LYS:HB2	2.15	0.46
22:AV:33:U:O2	22:AV:35:A:H3'	2.15	0.46
24:AY:7:A:HO2'	24:AY:49:G:H8	1.61	0.46
25:AZ:259:ALA:O	25:AZ:260:PRO:C	2.53	0.46
26:B0:12:ASN:O	26:B0:14:ARG:N	2.44	0.46
36:BA:146:G:H2'	36:BA:147:U:H5'	1.97	0.46
36:BA:778:G:C5	36:BA:779:U:C4	3.04	0.46
36:BA:1754:C:N3	36:BA:2716:U:O2'	2.40	0.46
36:BA:1798:U:C2	36:BA:1822:G:C2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1899:G:O2'	36:BA:1900:A:H5''	2.15	0.46
36:BA:1953:A:H2	36:BA:2549:G:N3	2.12	0.46
36:BA:2051:A:OP1	40:BE:137:HIS:ND1	2.48	0.46
36:BA:2120:G:N2	36:BA:2178:C:C2	2.83	0.46
36:BA:2134:A:H2'	36:BA:2134:A:N3	2.29	0.46
36:BA:2246:G:C8	36:BA:2426:A:C6	3.03	0.46
36:BA:2305:A:O2'	42:BG:136:ARG:HG3	2.15	0.46
36:BA:2864:G:H2'	36:BA:2865:U:O4'	2.15	0.46
39:BD:70:TRP:HZ3	39:BD:146:GLU:CD	2.18	0.46
39:BD:85:ASP:HB2	39:BD:92:ILE:HG23	1.97	0.46
40:BE:194:GLY:O	40:BE:196:VAL:HG13	2.14	0.46
41:BF:118:ALA:O	41:BF:119:ARG:C	2.53	0.46
41:BF:133:ASN:HB2	41:BF:138:GLU:OE2	2.14	0.46
42:BG:47:LYS:HZ2	42:BG:81:LYS:CG	2.28	0.46
42:BG:133:LEU:HD12	42:BG:133:LEU:O	2.14	0.46
48:BP:107:LYS:C	48:BP:109:GLY:H	2.18	0.46
48:BP:120:ALA:HB3	48:BP:137:LYS:O	2.15	0.46
49:BQ:42:ILE:HA	49:BQ:42:ILE:HD12	1.79	0.46
49:BQ:90:VAL:HG12	49:BQ:91:GLU:H	1.80	0.46
49:BQ:110:THR:HG23	49:BQ:113:GLN:HB2	1.98	0.46
51:BS:42:ASP:O	51:BS:44:LYS:N	2.40	0.46
52:BT:61:PHE:HD2	52:BT:61:PHE:H	1.63	0.46
55:BW:59:VAL:HG12	55:BW:60:ASN:N	2.30	0.46
56:BX:70:LEU:HD23	56:BX:71:GLY:N	2.30	0.46
58:BZ:99:TYR:CE2	58:BZ:125:LEU:HD13	2.50	0.46
1:CA:43:C:H2'	1:CA:44:G:O5'	2.14	0.46
1:CA:61:G:O2'	1:CA:386:C:H1'	2.15	0.46
1:CA:112:G:H4'	1:CA:389:A:H4'	1.96	0.46
1:CA:447:G:C2'	1:CA:485:G:H22	2.26	0.46
1:CA:782:A:H2'	1:CA:783:C:O4'	2.15	0.46
1:CA:798:G:C2'	1:CA:799:G:O5'	2.63	0.46
1:CA:1001:A:O2'	1:CA:1001(A):G:C2	2.68	0.46
1:CA:1056:U:H5'	3:CC:163:ALA:HB2	1.97	0.46
1:CA:1150:U:O4	1:CA:1151:A:N6	2.48	0.46
1:CA:1150:U:H1'	1:CA:1280:A:N6	2.31	0.46
1:CA:1186:G:H21	14:CN:61:TRP:C	2.18	0.46
1:CA:1244:C:O2'	1:CA:1245:A:H5'	2.15	0.46
1:CA:1249:C:H5'	1:CA:1249:C:C6	2.41	0.46
1:CA:1422:G:O2'	1:CA:1423:G:H5'	2.15	0.46
2:CB:104:ASN:OD1	2:CB:104:ASN:O	2.33	0.46
3:CC:7:PRO:HG2	3:CC:184:TYR:CG	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:98:THR:HG22	5:CE:99:GLY:O	2.15	0.46
6:CF:10:LEU:HD13	6:CF:59:TYR:CD2	2.49	0.46
6:CF:48:LEU:HD23	6:CF:48:LEU:HA	1.74	0.46
7:CG:69:VAL:O	7:CG:71:PRO:HD3	2.14	0.46
15:CO:3:ILE:HD12	15:CO:34:LEU:HD21	1.97	0.46
15:CO:39:LEU:O	15:CO:42:HIS:N	2.48	0.46
24:CY:73:A:H2'	24:CY:74:C:O4'	2.15	0.46
25:CZ:281:ILE:O	25:CZ:284:ASP:OD2	2.34	0.46
27:D1:18:ILE:HD13	27:D1:20:ARG:NH2	2.30	0.46
27:D1:18:ILE:HG21	27:D1:20:ARG:CZ	2.46	0.46
28:D2:68:ARG:CZ	28:D2:72:ALA:CB	2.93	0.46
29:D3:18:ASP:HB2	36:DA:850:C:C4'	2.41	0.46
33:D7:24:THR:C	33:D7:28:ARG:NH2	2.68	0.46
36:DA:271(B):C:O2'	36:DA:271(C):C:H5'	2.16	0.46
36:DA:275:G:C2	36:DA:276:A:H2	2.33	0.46
36:DA:299:A:N7	36:DA:322:A:C2	2.83	0.46
36:DA:325:G:H2'	36:DA:326:G:C8	2.50	0.46
36:DA:604:G:C6	36:DA:625:G:C2	3.02	0.46
36:DA:643:A:H2'	36:DA:644:A:O4'	2.16	0.46
36:DA:778:G:C6	36:DA:779:U:C4	3.03	0.46
36:DA:817:C:H4'	36:DA:932:G:N1	2.30	0.46
36:DA:1021:A:C8	36:DA:1022:G:H4'	2.43	0.46
36:DA:1141:U:H5''	36:DA:1142(A):A:O4'	2.15	0.46
36:DA:1668:A:H61	36:DA:1676:A:H61	1.62	0.46
36:DA:1816:G:H5'	39:DD:62:TYR:CE2	2.50	0.46
36:DA:1930:G:H22	36:DA:1969:A:C5'	2.29	0.46
36:DA:2124:G:H4'	38:DC:174:PRO:HB3	1.97	0.46
36:DA:2435:A:C6	36:DA:2436:G:C5	3.02	0.46
36:DA:2442:C:O2	36:DA:2442:C:C2'	2.64	0.46
36:DA:2466:C:C2'	36:DA:2467:C:H5'	2.46	0.46
36:DA:2483:C:H2'	36:DA:2483:C:O2	2.15	0.46
36:DA:2577:A:H5''	36:DA:2578:G:H5'	1.97	0.46
36:DA:2626:C:H2'	36:DA:2627:G:H8	1.79	0.46
39:DD:73:VAL:HA	39:DD:119:ALA:O	2.15	0.46
39:DD:239:ARG:HG2	39:DD:239:ARG:NH2	2.29	0.46
40:DE:1:MET:HB3	40:DE:200:GLU:OE2	2.16	0.46
40:DE:109:LYS:O	40:DE:161:GLY:HA3	2.15	0.46
40:DE:123:ALA:O	40:DE:125:GLY:N	2.46	0.46
40:DE:154:LYS:O	40:DE:155:LYS:O	2.33	0.46
41:DF:63:LYS:HA	41:DF:76:GLY:O	2.14	0.46
41:DF:157:VAL:O	41:DF:158:THR:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:122:PRO:HG2	42:DG:123:ASN:HD21	1.76	0.46
43:DH:123:PHE:N	43:DH:123:PHE:CD1	2.82	0.46
47:DO:12:ASP:C	47:DO:14:THR:H	2.18	0.46
47:DO:86:ILE:CG2	47:DO:94:ARG:HB2	2.43	0.46
48:DP:95:VAL:HA	48:DP:99:LEU:CD2	2.46	0.46
49:DQ:51:ARG:CG	49:DQ:52:VAL:N	2.79	0.46
52:DT:64:ARG:CB	52:DT:73:GLU:HG2	2.42	0.46
1:AA:198:G:O2'	1:AA:199:G:H8	1.98	0.46
1:AA:377:G:P	16:AP:5:ARG:HD3	2.55	0.46
1:AA:670:G:N2	1:AA:671:G:C4	2.84	0.46
1:AA:785:G:C6	1:AA:786:G:N7	2.84	0.46
1:AA:904:C:H2'	1:AA:905:U:O4'	2.14	0.46
1:AA:1060:C:HO2'	1:AA:1061:G:H5'	1.77	0.46
1:AA:1074:G:C1'	2:AB:104:ASN:HD22	2.29	0.46
1:AA:1150:U:O2'	10:AJ:41:PRO:HD3	2.15	0.46
1:AA:1206:G:H4'	3:AC:192:THR:O	2.15	0.46
1:AA:1470:G:C4	1:AA:1471:G:C8	3.04	0.46
1:AA:1497:G:H1'	1:AA:1518:A:H2	1.81	0.46
1:AA:1531:A:O5'	1:AA:1531:A:C8	2.61	0.46
3:AC:5:ILE:N	3:AC:5:ILE:CD1	2.78	0.46
4:AD:20:TYR:CA	4:AD:26:CYS:HB3	2.45	0.46
5:AE:10:MET:SD	5:AE:10:MET:N	2.85	0.46
5:AE:12:LEU:HD13	5:AE:12:LEU:C	2.36	0.46
5:AE:102:ALA:HA	5:AE:120:THR:HG22	1.96	0.46
7:AG:116:ALA:O	7:AG:117:ALA:C	2.52	0.46
9:AI:5:TYR:CD1	9:AI:6:GLY:N	2.84	0.46
9:AI:37:PHE:CD2	9:AI:74:ILE:HD11	2.50	0.46
11:AK:26:ASN:O	11:AK:27:ASN:HB2	2.16	0.46
11:AK:108:ILE:HD12	11:AK:108:ILE:N	2.29	0.46
16:AP:27:LYS:O	16:AP:28:ARG:C	2.53	0.46
25:AZ:263:ARG:HE	25:AZ:297:GLU:HB3	1.81	0.46
26:B0:10:THR:HG22	26:B0:11:ARG:N	2.29	0.46
27:B1:19:GLN:O	27:B1:35:THR:HG22	2.15	0.46
30:B4:25:TYR:O	30:B4:26:SER:HB3	2.15	0.46
32:B6:35:GLU:HB3	32:B6:51:GLU:HG3	1.97	0.46
32:B6:41:PRO:HG3	32:B6:49:HIS:CE1	2.50	0.46
33:B7:24:THR:HG23	33:B7:27:GLY:HA3	1.96	0.46
36:BA:153:C:H2'	36:BA:154:G:C8	2.51	0.46
36:BA:299:A:N7	36:BA:322:A:C2	2.83	0.46
36:BA:455:C:N3	36:BA:472:A:H2'	2.30	0.46
36:BA:479:A:N3	36:BA:481:G:O4'	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:598:G:C4'	48:BP:15:ARG:HB3	2.45	0.46
36:BA:937:U:H2'	36:BA:938:G:C8	2.50	0.46
36:BA:937:U:H2'	36:BA:938:G:H8	1.79	0.46
36:BA:1218:C:H2'	36:BA:1219:G:H5'	1.96	0.46
36:BA:1339:G:N2	36:BA:1603:A:N3	2.64	0.46
36:BA:1655:A:H1'	40:BE:113:PHE:CD2	2.49	0.46
36:BA:1676:A:H2'	36:BA:1677:A:O4'	2.15	0.46
36:BA:2010:G:OP2	55:BW:41:LYS:NZ	2.43	0.46
36:BA:2124:G:H4'	38:BC:174:PRO:HB3	1.97	0.46
36:BA:2358:G:H2'	36:BA:2359:C:O4'	2.16	0.46
36:BA:2635:C:H2'	36:BA:2636:U:O5'	2.16	0.46
36:BA:2650:U:H2'	36:BA:2651:C:C6	2.50	0.46
36:BA:2651:C:O5'	36:BA:2651:C:H6	1.98	0.46
36:BA:2651:C:O2'	36:BA:2652:C:H5'	2.15	0.46
36:BA:2766:G:H2'	36:BA:2766:G:N3	2.30	0.46
36:BA:2811:G:H1	36:BA:2889:C:H42	1.63	0.46
37:BB:74:U:H2'	37:BB:75:G:O4'	2.15	0.46
39:BD:26:LYS:C	39:BD:27:THR:HG22	2.36	0.46
39:BD:28:GLU:N	39:BD:29:PRO:HD2	2.23	0.46
39:BD:138:VAL:O	39:BD:138:VAL:HG13	2.14	0.46
39:BD:249:PRO:CG	39:BD:250:TRP:N	2.77	0.46
41:BF:171:PRO:C	41:BF:173:VAL:N	2.69	0.46
42:BG:5:VAL:N	42:BG:8:LYS:HB2	2.19	0.46
43:BH:56:SER:HB2	43:BH:58:GLU:HG3	1.98	0.46
43:BH:130:ARG:CZ	43:BH:130:ARG:CB	2.94	0.46
46:BN:108:PRO:HG2	46:BN:113:GLY:HA3	1.97	0.46
51:BS:73:LEU:HD23	51:BS:73:LEU:C	2.36	0.46
51:BS:74:ALA:C	51:BS:76:LYS:N	2.67	0.46
52:BT:32:TYR:CG	52:BT:33:LYS:N	2.83	0.46
52:BT:35:LYS:NZ	52:BT:41:ARG:HD2	2.31	0.46
53:BU:91:ASP:O	53:BU:92:ARG:HB3	2.16	0.46
54:BV:81:TYR:CD1	54:BV:81:TYR:O	2.69	0.46
56:BX:31:HIS:O	56:BX:32:PRO:C	2.53	0.46
58:BZ:10:ARG:NH2	58:BZ:36:LYS:HB3	2.30	0.46
1:CA:64:G:N2	1:CA:67:C:N4	2.63	0.46
1:CA:409:G:OP2	1:CA:409:G:H8	1.98	0.46
1:CA:823:G:H21	8:CH:1:MET:HE3	1.80	0.46
1:CA:865:A:C2'	1:CA:866:C:H5'	2.45	0.46
1:CA:880:C:O5'	12:CL:12:ARG:NH1	2.48	0.46
1:CA:932:C:H2'	1:CA:933:G:H8	1.79	0.46
1:CA:1087:G:H8	1:CA:1087:G:O5'	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1483:A:C2	36:DA:1960:A:H1'	2.50	0.46
2:CB:41:ILE:HD12	2:CB:41:ILE:N	2.30	0.46
5:CE:7:GLU:OE1	5:CE:37:ARG:NE	2.41	0.46
5:CE:102:ALA:HA	5:CE:120:THR:HG22	1.96	0.46
9:CI:16:ARG:O	9:CI:63:ILE:HG23	2.15	0.46
10:CJ:32:ALA:CB	10:CJ:75:ILE:HG13	2.36	0.46
10:CJ:37:PRO:HA	10:CJ:72:VAL:HG22	1.97	0.46
10:CJ:40:LEU:HB2	10:CJ:41:PRO:CD	2.42	0.46
11:CK:15:ALA:HA	11:CK:77:MET:HA	1.97	0.46
11:CK:102:GLY:O	11:CK:103:LEU:HD22	2.14	0.46
11:CK:108:ILE:HD12	11:CK:108:ILE:N	2.31	0.46
12:CL:84:LEU:CD2	12:CL:85:ILE:N	2.78	0.46
14:CN:50:LYS:C	14:CN:52:GLN:H	2.18	0.46
16:CP:7:ALA:O	16:CP:17:TYR:HA	2.14	0.46
19:CS:41:VAL:O	19:CS:44:MET:HB2	2.15	0.46
20:CT:23:ARG:HD3	20:CT:23:ARG:C	2.36	0.46
25:CZ:143:ASP:OD2	25:CZ:144:PRO:HD2	2.15	0.46
25:CZ:313:HIS:CG	25:CZ:403:ILE:HG21	2.49	0.46
27:D1:6:GLU:CD	27:D1:60:PHE:CD1	2.88	0.46
27:D1:88:LYS:HD3	27:D1:88:LYS:O	2.15	0.46
36:DA:202:U:H2'	36:DA:203:C:O4'	2.15	0.46
36:DA:326:G:H2'	36:DA:327:G:O4'	2.15	0.46
36:DA:444:C:O3'	53:DU:2:PRO:N	2.48	0.46
36:DA:455:C:N3	36:DA:473:G:H5'	2.30	0.46
36:DA:563:G:C4	36:DA:2018:G:C2	3.03	0.46
36:DA:631:A:H2	36:DA:2415:G:N3	2.13	0.46
36:DA:667:U:H3'	36:DA:668:G:H5''	1.96	0.46
36:DA:730:C:O2'	36:DA:731:C:H5'	2.16	0.46
36:DA:1054:A:H2'	36:DA:1054:A:N3	2.30	0.46
36:DA:1161:C:O2'	36:DA:1162:G:H5'	2.16	0.46
36:DA:1398:C:H2'	36:DA:1399:C:C6	2.51	0.46
36:DA:1747(A):G:H2'	36:DA:1748:G:C4'	2.45	0.46
36:DA:1776:G:C2	36:DA:1777:U:C6	3.04	0.46
36:DA:1802:A:C5	36:DA:1817:G:N2	2.83	0.46
36:DA:1802:A:N1	36:DA:1822:G:H1'	2.30	0.46
36:DA:1982:C:H2'	36:DA:1983:C:C6	2.50	0.46
36:DA:2153:G:N2	36:DA:2154:G:H1'	2.30	0.46
36:DA:2206:G:H21	36:DA:2207:G:H4'	1.76	0.46
36:DA:2533:A:O2'	36:DA:2534:A:H5'	2.15	0.46
36:DA:2539:C:H2'	36:DA:2540:C:H6	1.80	0.46
36:DA:2752:C:O2	36:DA:2752:C:C2'	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2768:C:H5'	46:DN:83:LYS:HE3	1.97	0.46
38:DC:103:ILE:O	38:DC:103:ILE:CG2	2.62	0.46
38:DC:104:LEU:O	38:DC:105:ASP:HB2	2.15	0.46
40:DE:87:GLU:O	40:DE:87:GLU:HG3	2.14	0.46
40:DE:103:ASP:OD2	40:DE:202:LYS:HE3	2.15	0.46
40:DE:198:VAL:O	40:DE:199:ARG:HB2	2.15	0.46
41:DF:8:GLN:HB3	41:DF:126:VAL:HA	1.98	0.46
42:DG:161:THR:HG21	42:DG:172:LEU:HD13	1.98	0.46
46:DN:18:ALA:O	46:DN:20:GLY:N	2.48	0.46
46:DN:96:GLU:HG2	46:DN:100:GLU:OE2	2.15	0.46
48:DP:107:LYS:C	48:DP:109:GLY:N	2.68	0.46
48:DP:120:ALA:HB3	48:DP:137:LYS:O	2.16	0.46
50:DR:17:ARG:HB3	50:DR:17:ARG:HH11	1.81	0.46
53:DU:90:VAL:O	53:DU:91:ASP:C	2.54	0.46
55:DW:28:SER:HA	55:DW:70:TYR:HB2	1.98	0.46
56:DX:35:THR:CG2	56:DX:37:THR:HB	2.45	0.46
57:DY:9:LYS:HG2	57:DY:11:ASP:OD2	2.15	0.46
57:DY:19:LYS:HB2	57:DY:20:TYR:CD1	2.49	0.46
1:AA:43:C:H2'	1:AA:44:G:O5'	2.15	0.46
1:AA:62:U:O5'	1:AA:62:U:H6	1.98	0.46
1:AA:517:G:N2	1:AA:533:A:OP2	2.48	0.46
1:AA:580:U:H3	1:AA:761:G:H1	1.63	0.46
1:AA:828:A:N6	1:AA:858:G:O2'	2.49	0.46
1:AA:934:C:C5	1:AA:1344:C:C4	3.03	0.46
1:AA:967:C:H2'	1:AA:968:A:H8	1.78	0.46
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.15	0.46
1:AA:1195:C:H2'	1:AA:1197:G:O4'	2.15	0.46
1:AA:1217:C:P	14:AN:9:LYS:HZ1	2.38	0.46
1:AA:1439:C:H5'	20:AT:38:LYS:HZ1	1.80	0.46
2:AB:42:ILE:HD11	2:AB:202:PRO:CB	2.39	0.46
2:AB:114:ARG:HD2	2:AB:118:LEU:HD11	1.97	0.46
2:AB:138:LEU:C	2:AB:140:HIS:H	2.19	0.46
2:AB:233:SER:O	2:AB:234:PRO:C	2.54	0.46
5:AE:145:LYS:HE2	5:AE:149:GLU:OE2	2.15	0.46
7:AG:94:ARG:O	7:AG:95:ARG:C	2.54	0.46
8:AH:89:PRO:CA	8:AH:92:ARG:HH11	2.28	0.46
10:AJ:30:SER:C	10:AJ:81:THR:HG22	2.36	0.46
10:AJ:90:LEU:H	10:AJ:91:PRO:CD	2.27	0.46
12:AL:40:VAL:O	12:AL:40:VAL:HG12	2.15	0.46
12:AL:89:ARG:CD	12:AL:91:LYS:HB2	2.45	0.46
13:AM:34:LEU:HD11	13:AM:41:PRO:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:91:ARG:HD3	13:AM:96:LEU:HB2	1.96	0.46
14:AN:19:ARG:O	14:AN:20:ALA:C	2.54	0.46
18:AR:32:ARG:HA	18:AR:69:THR:HG21	1.97	0.46
19:AS:26:GLY:O	19:AS:27:GLU:O	2.34	0.46
19:AS:36:ARG:HH22	19:AS:75:ALA:HB3	1.80	0.46
19:AS:63:THR:HG23	19:AS:64:GLU:N	2.30	0.46
27:B1:15:ALA:CB	27:B1:42:GLN:HG3	2.46	0.46
32:B6:41:PRO:HG2	32:B6:47:THR:OG1	2.16	0.46
36:BA:270:A:C2'	36:BA:271:A:H5'	2.45	0.46
36:BA:340:A:C2	36:BA:341:G:H1'	2.50	0.46
36:BA:584:C:O5'	36:BA:584:C:H6	1.97	0.46
36:BA:596:G:N1	36:BA:597:U:C2	2.84	0.46
36:BA:660:G:H5'	41:BF:99:TYR:CE2	2.49	0.46
36:BA:1243:G:C3'	36:BA:1244:G:H5''	2.45	0.46
36:BA:1386:C:H3'	36:BA:1386:C:C6	2.48	0.46
36:BA:1387:C:H42	36:BA:1400:G:H1	1.62	0.46
36:BA:1857:G:O2'	36:BA:1885:A:N6	2.48	0.46
36:BA:1921:G:O2'	36:BA:1922:G:H5'	2.14	0.46
36:BA:2298:A:H2'	36:BA:2299:G:O4'	2.15	0.46
36:BA:2691:C:H2'	36:BA:2692:C:C6	2.31	0.46
36:BA:2839:G:H2'	36:BA:2840:C:H6	1.80	0.46
36:BA:2839:G:C5'	50:BR:46:GLY:HA2	2.46	0.46
36:BA:2850:A:OP2	36:BA:2866:U:O4	2.34	0.46
41:BF:40:GLN:NE2	41:BF:184:TYR:HB3	2.30	0.46
41:BF:53:THR:HG22	41:BF:56:GLU:CG	2.40	0.46
41:BF:99:TYR:O	41:BF:100:THR:C	2.52	0.46
42:BG:125:PHE:CD1	42:BG:125:PHE:N	2.83	0.46
43:BH:152:ARG:O	43:BH:162:ILE:HG22	2.15	0.46
47:BO:99:PHE:N	47:BO:99:PHE:CD1	2.82	0.46
48:BP:114:ILE:CG2	48:BP:130:PHE:HA	2.46	0.46
48:BP:140:ALA:O	48:BP:141:ALA:HB3	2.16	0.46
49:BQ:21:THR:HG22	49:BQ:23:GLY:O	2.15	0.46
50:BR:100:LEU:HD22	50:BR:112:ALA:HA	1.96	0.46
51:BS:12:PHE:CD2	51:BS:12:PHE:C	2.86	0.46
51:BS:27:SER:O	51:BS:28:VAL:HG22	2.15	0.46
52:BT:32:TYR:O	52:BT:41:ARG:O	2.34	0.46
52:BT:51:ARG:HG2	52:BT:62:THR:HG23	1.98	0.46
52:BT:100:TYR:HD2	52:BT:103:ARG:NH2	2.13	0.46
57:BY:96:ILE:CD1	57:BY:99:CYS:SG	3.04	0.46
58:BZ:153:SER:HB2	58:BZ:167:PRO:HB3	1.96	0.46
1:CA:10:A:N7	5:CE:126:ARG:NH1	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:327:A:O2'	1:CA:328:C:O4'	2.33	0.46
1:CA:405:U:C3'	1:CA:406:G:H5'	2.38	0.46
1:CA:407:G:OP1	4:CD:115:ARG:CZ	2.63	0.46
1:CA:540:G:O2'	1:CA:541:G:H5'	2.15	0.46
1:CA:564:C:C4	17:CQ:31:LEU:HD11	2.50	0.46
1:CA:686:U:H1'	11:CK:42:TRP:HE1	1.81	0.46
1:CA:766:A:C8	1:CA:814:A:C6	3.03	0.46
1:CA:1014:A:H5''	19:CS:14:HIS:HB2	1.97	0.46
1:CA:1064:G:H21	1:CA:1190:G:C2'	2.28	0.46
4:CD:135:LEU:C	4:CD:137:SER:N	2.69	0.46
4:CD:162:LEU:HD11	4:CD:178:VAL:O	2.16	0.46
5:CE:57:LYS:O	5:CE:58:ALA:C	2.54	0.46
5:CE:140:ARG:HE	5:CE:140:ARG:HB2	1.48	0.46
6:CF:10:LEU:N	6:CF:10:LEU:CD1	2.78	0.46
8:CH:14:ARG:HH11	8:CH:14:ARG:HB3	1.79	0.46
8:CH:50:ARG:HG3	8:CH:50:ARG:HH11	1.80	0.46
10:CJ:30:SER:C	10:CJ:81:THR:HG22	2.35	0.46
10:CJ:62:HIS:H	10:CJ:62:HIS:CD2	2.34	0.46
13:CM:3:ARG:HH21	13:CM:7:VAL:HG13	1.81	0.46
15:CO:81:LEU:CD1	15:CO:85:LEU:HD12	2.44	0.46
19:CS:63:THR:HG22	19:CS:66:MET:SD	2.56	0.46
22:CV:34:G:O2'	22:CV:35:A:H5'	2.15	0.46
25:CZ:188:THR:HG23	25:CZ:192:GLU:CD	2.35	0.46
25:CZ:242:ILE:HB	25:CZ:282:ALA:HA	1.96	0.46
28:D2:4:SER:O	28:D2:7:ARG:HD2	2.16	0.46
33:D7:30:VAL:HG13	36:DA:466:A:H4'	1.96	0.46
36:DA:28:A:N3	36:DA:28:A:H2'	2.29	0.46
36:DA:449:A:H1'	53:DU:3:ARG:HE	1.80	0.46
36:DA:571:A:H5'	36:DA:2030:A:N7	2.30	0.46
36:DA:606:U:H2'	36:DA:607:U:H4'	1.98	0.46
36:DA:940:G:H2'	36:DA:941:A:O4'	2.15	0.46
36:DA:1069:A:C1'	36:DA:1070:A:P	3.02	0.46
36:DA:1196:C:H2'	36:DA:1197:G:H8	1.80	0.46
36:DA:1221:C:H2'	36:DA:1221(A):C:H6	1.79	0.46
36:DA:1718:G:H5'	36:DA:1718:G:C8	2.46	0.46
36:DA:1825:A:O3'	39:DD:233:HIS:CE1	2.68	0.46
36:DA:2053:G:C2	36:DA:2054:A:C1'	2.98	0.46
36:DA:2056:G:C4	36:DA:2577:A:C2	3.03	0.46
36:DA:2064:C:H2'	36:DA:2065:C:H6	1.78	0.46
36:DA:2121:G:C2	36:DA:2122:U:C4	3.03	0.46
38:DC:46:LYS:C	38:DC:47:LEU:HD12	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:68:LYS:HB2	39:DD:70:TRP:CZ2	2.49	0.46
39:DD:214:TRP:C	39:DD:216:GLY:N	2.63	0.46
39:DD:238:GLY:O	39:DD:239:ARG:HB3	2.14	0.46
40:DE:132:HIS:CD2	40:DE:135:HIS:CE1	3.03	0.46
42:DG:34:LEU:HA	42:DG:161:THR:CB	2.45	0.46
42:DG:171:ALA:O	42:DG:175:LEU:HG	2.15	0.46
43:DH:169:VAL:O	43:DH:169:VAL:HG13	2.15	0.46
46:DN:14:VAL:HG12	46:DN:15:LEU:N	2.30	0.46
46:DN:108:PRO:C	46:DN:109:LYS:HG3	2.36	0.46
48:DP:108:LYS:N	48:DP:108:LYS:HD2	2.29	0.46
54:DV:49:THR:CB	54:DV:50:PRO:CD	2.90	0.46
57:DY:81:LYS:HG3	57:DY:97:ARG:CG	2.45	0.46
58:DZ:63:ASP:CG	58:DZ:65:GLN:HE21	2.18	0.46
1:AA:189(G):G:H8	1:AA:189(G):G:OP1	1.98	0.46
1:AA:521:G:OP1	12:AL:73:GLU:HA	2.14	0.46
1:AA:577:G:C1'	1:AA:816:A:C4	2.98	0.46
1:AA:697:U:C2'	1:AA:698:G:H5'	2.46	0.46
1:AA:756:C:O2'	1:AA:757:U:H5'	2.15	0.46
1:AA:1032:G:N2	1:AA:1033:G:O6	2.48	0.46
1:AA:1190:G:H5''	3:AC:3:ASN:HD22	1.81	0.46
1:AA:1253:G:O2'	1:AA:1254:C:H5'	2.15	0.46
1:AA:1305:G:C8	1:AA:1305:G:OP2	2.68	0.46
2:AB:180:LEU:HB2	2:AB:182:ILE:HG13	1.97	0.46
2:AB:237:ALA:O	2:AB:238:LEU:CB	2.62	0.46
3:AC:34:LEU:CD2	3:AC:38:ARG:HE	2.28	0.46
4:AD:129:ASN:N	4:AD:129:ASN:ND2	2.62	0.46
8:AH:104:ARG:O	8:AH:105:ARG:C	2.54	0.46
12:AL:17:LYS:NZ	12:AL:18:VAL:CG2	2.78	0.46
12:AL:76:ASN:O	12:AL:76:ASN:CG	2.54	0.46
15:AO:23:GLY:O	15:AO:24:SER:CB	2.62	0.46
15:AO:69:TYR:CG	15:AO:69:TYR:O	2.68	0.46
17:AQ:43:LEU:HD23	17:AQ:43:LEU:HA	1.77	0.46
18:AR:68:LYS:O	18:AR:72:ARG:HG3	2.16	0.46
22:AW:19:G:C5	36:BA:2169:A:C2	3.03	0.46
25:AZ:32:THR:OG1	25:AZ:33:TYR:N	2.48	0.46
25:AZ:94:THR:HG23	25:AZ:346:THR:HG22	1.97	0.46
25:AZ:155:ARG:HA	25:AZ:158:LEU:HD12	1.96	0.46
25:AZ:318:ALA:HB2	25:AZ:400:VAL:HA	1.98	0.46
28:B2:38:GLN:O	28:B2:43:GLN:O	2.33	0.46
31:B5:15:ARG:NH2	36:BA:2022:U:OP2	2.49	0.46
36:BA:28:A:H2'	36:BA:28:A:N3	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:94:C:H3'	36:BA:94(A):G:H8	1.81	0.46
36:BA:271(K):U:H2'	36:BA:271(M):G:N2	2.30	0.46
36:BA:428:A:H5'	36:BA:429:A:OP2	2.15	0.46
36:BA:531:C:H5	36:BA:2035:G:C4	2.33	0.46
36:BA:643:A:H2'	36:BA:644:A:O4'	2.15	0.46
36:BA:729:G:H5'	36:BA:730:C:H5''	1.97	0.46
36:BA:775:G:C5	36:BA:794:G:C8	3.03	0.46
36:BA:1337:G:H2'	36:BA:1338:G:O4'	2.16	0.46
36:BA:1342:A:C2	36:BA:1345:C:C4	3.04	0.46
36:BA:1763:G:H2'	36:BA:1764:G:H5'	1.97	0.46
36:BA:1802:A:C5	36:BA:1817:G:N2	2.84	0.46
36:BA:1932:A:C2'	36:BA:1933:G:H5'	2.46	0.46
36:BA:2001:A:H4'	36:BA:2689:U:C2'	2.43	0.46
36:BA:2115:G:N3	36:BA:2117:A:N7	2.63	0.46
36:BA:2140:C:O2'	36:BA:2141:G:H5'	2.16	0.46
38:BC:53:ARG:HB3	38:BC:53:ARG:CZ	2.46	0.46
38:BC:79:LYS:HB3	38:BC:147:PHE:HE1	1.81	0.46
39:BD:126:GLN:HG3	39:BD:129:ASN:HD21	1.80	0.46
39:BD:186:HIS:CD2	39:BD:188:GLU:HB2	2.48	0.46
39:BD:214:TRP:O	39:BD:215:LEU:C	2.54	0.46
41:BF:31:HIS:HE1	41:BF:34:TRP:CZ3	2.34	0.46
45:BK:73:UNK:C	45:BK:75:UNK:N	2.77	0.46
46:BN:11:PRO:O	46:BN:13:TRP:HD1	1.99	0.46
49:BQ:67:ARG:O	49:BQ:101:ARG:NH2	2.49	0.46
53:BU:83:LEU:HD12	53:BU:83:LEU:N	2.30	0.46
55:BW:65:LEU:HD23	55:BW:68:ARG:CD	2.45	0.46
55:BW:70:TYR:O	55:BW:108:GLY:N	2.48	0.46
58:BZ:3:TYR:O	58:BZ:57:ILE:HA	2.15	0.46
1:CA:53:A:N6	1:CA:54:C:C4	2.83	0.46
1:CA:308:C:H2'	1:CA:309:G:C8	2.50	0.46
1:CA:484:G:H4'	1:CA:485:G:H4'	1.97	0.46
1:CA:542:G:H2'	1:CA:543:C:C6	2.50	0.46
1:CA:967:C:H2'	1:CA:968:A:N7	2.31	0.46
1:CA:975:A:H61	10:CJ:48:THR:HB	1.80	0.46
1:CA:990:C:C6	1:CA:1216:G:N2	2.83	0.46
1:CA:1067:A:H4'	1:CA:1068:G:O5'	2.15	0.46
1:CA:1075:C:H4'	1:CA:1101:A:C6	2.51	0.46
1:CA:1081:G:O2'	1:CA:1082:G:H5'	2.16	0.46
1:CA:1191:A:OP1	3:CC:4:LYS:HG2	2.15	0.46
59:CA:1601:PAR:H322	59:CA:1601:PAR:H51	1.80	0.46
2:CB:17:PHE:O	2:CB:18:GLY:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:39:ILE:HG22	3:CC:40:ARG:N	2.31	0.46
4:CD:127:THR:CG2	4:CD:130:GLY:O	2.63	0.46
5:CE:20:GLN:NE2	5:CE:25:ARG:NH2	2.63	0.46
5:CE:79:GLU:N	5:CE:93:PRO:HD3	2.30	0.46
5:CE:107:ARG:HG3	5:CE:111:GLU:CD	2.34	0.46
8:CH:138:TRP:OXT	8:CH:138:TRP:HE3	1.98	0.46
10:CJ:65:LEU:HD13	14:CN:56:VAL:CA	2.44	0.46
11:CK:26:ASN:O	11:CK:27:ASN:HB2	2.15	0.46
16:CP:27:LYS:O	16:CP:28:ARG:C	2.53	0.46
16:CP:44:THR:O	16:CP:45:THR:HB	2.14	0.46
25:CZ:94:THR:HG23	25:CZ:346:THR:HG22	1.97	0.46
25:CZ:358:GLY:O	25:CZ:360:GLU:HG3	2.15	0.46
27:D1:53:VAL:C	27:D1:55:GLY:N	2.68	0.46
27:D1:79:GLY:HA2	36:DA:271(H):G:N2	2.31	0.46
28:D2:29:LYS:O	28:D2:33:MET:CB	2.63	0.46
30:D4:25:TYR:O	30:D4:26:SER:HB3	2.15	0.46
35:D9:10:ILE:O	35:D9:11:CYS:CB	2.63	0.46
36:DA:7:G:O2'	36:DA:8:A:H5'	2.15	0.46
36:DA:88:G:N3	36:DA:88:G:H2'	2.30	0.46
36:DA:140:G:H1'	36:DA:141:A:C2	2.50	0.46
36:DA:519:U:H2'	36:DA:520:G:C8	2.51	0.46
36:DA:689:A:H2'	36:DA:690:G:H8	1.81	0.46
36:DA:695:G:C5	36:DA:768:G:C6	3.04	0.46
36:DA:779:U:H2'	36:DA:780:G:C8	2.50	0.46
36:DA:972:G:H2'	36:DA:973:A:H8	1.80	0.46
36:DA:1337:G:H2'	36:DA:1338:G:O4'	2.16	0.46
36:DA:1683:C:H2'	36:DA:1684:C:C6	2.50	0.46
36:DA:1759:A:C4'	36:DA:2714:G:H21	2.29	0.46
36:DA:1779:U:H2'	36:DA:1783:A:H62	1.79	0.46
36:DA:1823:G:C2	36:DA:1824:G:C8	3.03	0.46
36:DA:1907:G:H2'	36:DA:1908:C:H6	1.81	0.46
36:DA:2305:A:C6	42:DG:43:LEU:HD13	2.50	0.46
36:DA:2307:G:H3'	36:DA:2307:G:N3	2.30	0.46
36:DA:2413:G:H2'	36:DA:2414:G:C8	2.47	0.46
36:DA:2880:C:C5	36:DA:2881:C:H5	2.33	0.46
37:DB:37:C:N4	37:DB:49:C:H1'	2.31	0.46
39:DD:35:LYS:HG2	39:DD:63:ARG:CB	2.45	0.46
40:DE:197:ILE:HD11	40:DE:199:ARG:HH22	1.81	0.46
41:DF:99:TYR:O	41:DF:100:THR:C	2.54	0.46
43:DH:65:HIS:O	43:DH:67:LEU:N	2.48	0.46
50:DR:99:LYS:H	50:DR:99:LYS:CD	2.05	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:27:THR:HA	52:DT:88:ILE:H	1.81	0.46
52:DT:50:ILE:HD12	52:DT:50:ILE:N	2.30	0.46
52:DT:109:GLU:HA	52:DT:112:ARG:HD3	1.96	0.46
1:AA:371:G:H1'	1:AA:482:A:H1'	1.98	0.46
1:AA:517:G:C5'	1:AA:519:C:O2	2.63	0.46
1:AA:582:U:C2	1:AA:760:G:C6	3.04	0.46
1:AA:632:A:C8	1:AA:633:G:C8	3.03	0.46
1:AA:660:G:C4	1:AA:661:G:C8	3.04	0.46
1:AA:782:A:N6	1:AA:801:U:C6	2.84	0.46
1:AA:864:A:N7	1:AA:865:A:C6	2.84	0.46
1:AA:865:A:H2	1:AA:918:A:H4'	1.80	0.46
1:AA:920:U:O4'	1:AA:1080:A:N1	2.49	0.46
1:AA:994:A:N7	1:AA:1216:G:H4'	2.29	0.46
1:AA:1141:C:H2'	1:AA:1142:G:C8	2.50	0.46
1:AA:1157:A:H1'	1:AA:1181:G:H21	1.81	0.46
2:AB:92:TYR:HE1	2:AB:150:SER:HB2	1.79	0.46
2:AB:209:ARG:HH11	2:AB:239:VAL:HG21	1.81	0.46
2:AB:219:VAL:C	2:AB:222:ILE:HG12	2.36	0.46
3:AC:50:ALA:HB2	3:AC:75:VAL:HB	1.97	0.46
4:AD:165:MET:HE3	4:AD:176:LEU:CD2	2.46	0.46
9:AI:48:GLU:O	9:AI:49:PRO:C	2.51	0.46
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HB2	1.98	0.46
10:AJ:43:ARG:O	10:AJ:67:THR:HG22	2.15	0.46
11:AK:23:ALA:HB3	11:AK:91:ARG:HG2	1.98	0.46
15:AO:3:ILE:H	15:AO:3:ILE:HG12	1.49	0.46
15:AO:67:LEU:HB3	15:AO:78:TYR:HE1	1.80	0.46
25:AZ:104:LEU:CD1	25:AZ:120:ILE:HD11	2.46	0.46
25:AZ:246:LYS:HD3	25:AZ:281:ILE:HG22	1.98	0.46
25:AZ:360:GLU:O	25:AZ:362:VAL:N	2.48	0.46
25:AZ:361:MET:O	25:AZ:361:MET:HG3	2.15	0.46
25:AZ:402:LYS:HG2	25:AZ:403:ILE:N	2.30	0.46
26:B0:56:ASP:OD2	36:BA:2364:C:H4'	2.15	0.46
32:B6:27:LYS:O	32:B6:28:ARG:C	2.54	0.46
34:B8:18:ALA:C	34:B8:20:GLY:H	2.19	0.46
36:BA:275:G:C2	36:BA:276:A:H2	2.32	0.46
36:BA:426:C:H2'	36:BA:426:C:O2	2.15	0.46
36:BA:593:G:C2'	36:BA:594:U:H5'	2.46	0.46
36:BA:1141:U:H5''	36:BA:1142(A):A:O4'	2.15	0.46
36:BA:1448:G:N2	36:BA:1464:C:H1'	2.30	0.46
36:BA:1517:G:C5	36:BA:1518:U:C4	3.02	0.46
36:BA:1518:U:O5'	36:BA:1518:U:H6	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1538:G:H2'	36:BA:1539:G:H8	1.81	0.46
36:BA:1593:G:C2	36:BA:1594:G:C8	3.04	0.46
36:BA:1613:G:C3'	36:BA:1614:A:H5''	2.46	0.46
36:BA:1825:A:H4'	39:BD:233:HIS:HE1	1.81	0.46
36:BA:1902:C:H5''	39:BD:246:PRO:HD2	1.98	0.46
36:BA:2056:G:C4	36:BA:2577:A:C2	3.04	0.46
36:BA:2306:C:H41	36:BA:2311:A:H8	1.64	0.46
36:BA:2333:A:C1'	36:BA:2335:A:C5	2.99	0.46
36:BA:2512:C:H2'	36:BA:2513:G:O4'	2.15	0.46
36:BA:2579:C:O2'	40:BE:134:ILE:HD11	2.16	0.46
36:BA:2596:U:H2'	36:BA:2597:G:O4'	2.16	0.46
36:BA:2791:C:H4'	36:BA:2792:G:O5'	2.15	0.46
37:BB:37:C:O2	51:BS:95:HIS:CE1	2.69	0.46
38:BC:49:ILE:HD12	38:BC:50:ASP:N	2.29	0.46
39:BD:96:HIS:HE1	39:BD:102:LYS:NZ	2.14	0.46
39:BD:239:ARG:O	39:BD:240:ALA:HB2	2.16	0.46
39:BD:270:ILE:C	39:BD:271:ILE:HG13	2.32	0.46
41:BF:39:TRP:CZ3	41:BF:106:ARG:HD2	2.49	0.46
41:BF:122:LYS:CG	41:BF:191:ARG:HG3	2.45	0.46
41:BF:174:VAL:HG21	41:BF:189:THR:CG2	2.45	0.46
42:BG:47:LYS:HZ1	42:BG:81:LYS:CB	2.24	0.46
42:BG:47:LYS:HB3	42:BG:48:GLU:H	1.41	0.46
42:BG:125:PHE:O	42:BG:127:GLY:N	2.48	0.46
45:BK:95:UNK:C	45:BK:97:UNK:N	2.79	0.46
45:BK:125:UNK:O	45:BK:129:UNK:CB	2.64	0.46
47:BO:8:LEU:O	47:BO:9:GLU:O	2.34	0.46
48:BP:16:ARG:NH1	48:BP:16:ARG:CB	2.78	0.46
48:BP:47:ASP:HB3	48:BP:48:PRO:CA	2.46	0.46
53:BU:86:ALA:O	53:BU:88:ILE:N	2.48	0.46
54:BV:47:VAL:O	54:BV:48:GLY:C	2.54	0.46
55:BW:51:LEU:O	55:BW:54:ALA:HB3	2.15	0.46
56:BX:29:TRP:HZ3	56:BX:78:LYS:HD2	1.80	0.46
57:BY:81:LYS:HG3	57:BY:97:ARG:CG	2.45	0.46
58:BZ:127:LYS:O	58:BZ:127:LYS:HG3	2.16	0.46
1:CA:235:C:H1'	17:CQ:61:GLU:OE1	2.15	0.46
1:CA:314:C:N4	1:CA:315:A:N6	2.64	0.46
1:CA:412:A:H5'	1:CA:413:G:OP1	2.15	0.46
1:CA:802:A:H2'	1:CA:803:G:O4'	2.15	0.46
1:CA:1527:C:C4	1:CA:1528:U:O4	2.69	0.46
2:CB:188:ALA:O	2:CB:202:PRO:HA	2.15	0.46
4:CD:70:ILE:HD12	4:CD:97:LEU:HD21	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:78:HIS:O	5:CE:78:HIS:ND1	2.48	0.46
7:CG:44:TYR:O	7:CG:47:CYS:N	2.48	0.46
11:CK:123:LYS:O	11:CK:126:ARG:HB3	2.15	0.46
19:CS:50:ALA:HA	19:CS:58:VAL:O	2.16	0.46
22:CW:59:U:H5'	22:CW:60:U:C5	2.51	0.46
25:CZ:114:PRO:HG2	36:DA:2660:A:H4'	1.98	0.46
25:CZ:171:ILE:HG23	25:CZ:201:GLU:OE1	2.15	0.46
25:CZ:255:ILE:HG12	25:CZ:304:LEU:CD2	2.43	0.46
28:D2:60:LEU:O	28:D2:63:VAL:HB	2.16	0.46
34:D8:10:ALA:C	34:D8:12:LYS:H	2.19	0.46
34:D8:54:GLU:O	34:D8:58:ILE:HG12	2.15	0.46
36:DA:316:C:H2'	36:DA:317:G:O5'	2.15	0.46
36:DA:343:C:H2'	36:DA:343:C:O2	2.14	0.46
36:DA:384:U:H2'	36:DA:385:C:C6	2.49	0.46
36:DA:605:C:OP1	41:DF:104:LYS:NZ	2.48	0.46
36:DA:654(L):G:H2'	36:DA:654(M):C:C4'	2.46	0.46
36:DA:660:G:H5'	41:DF:99:TYR:CE2	2.50	0.46
36:DA:704:G:N3	36:DA:726:G:C2	2.84	0.46
36:DA:783:A:H2'	36:DA:784:A:O5'	2.15	0.46
36:DA:978:G:N2	36:DA:979:G:H1'	2.30	0.46
36:DA:1264:G:O3'	36:DA:2615:U:H5'	2.15	0.46
36:DA:1362:C:H2'	36:DA:1363:C:H5'	1.96	0.46
36:DA:1525:G:O2'	36:DA:1526:G:H5'	2.15	0.46
36:DA:1982:C:H6	36:DA:1982:C:O5'	1.99	0.46
36:DA:2086:U:H2'	36:DA:2087:G:C8	2.51	0.46
36:DA:2527:C:N4	36:DA:2536:G:O6	2.48	0.46
38:DC:43:VAL:CG2	38:DC:175:VAL:HG21	2.43	0.46
38:DC:75:LEU:HD11	38:DC:113:VAL:HG13	1.98	0.46
38:DC:147:PHE:O	38:DC:149:ILE:N	2.48	0.46
39:DD:91:ARG:HH11	39:DD:91:ARG:CG	2.25	0.46
39:DD:173:VAL:HG12	39:DD:185:VAL:O	2.16	0.46
39:DD:186:HIS:CD2	39:DD:188:GLU:HB2	2.48	0.46
40:DE:192:ASN:HD22	40:DE:192:ASN:C	2.19	0.46
41:DF:63:LYS:O	41:DF:64:ILE:C	2.51	0.46
41:DF:65:TRP:CZ3	41:DF:72:ARG:HB3	2.51	0.46
41:DF:169:ASN:O	41:DF:170:LEU:C	2.53	0.46
42:DG:42:GLY:HA2	42:DG:90:LEU:N	2.30	0.46
42:DG:91:ARG:HG2	42:DG:92:VAL:H	1.80	0.46
42:DG:104:GLU:O	42:DG:106:LEU:N	2.49	0.46
44:DJ:79:UNK:O	44:DJ:80:UNK:CB	2.64	0.46
47:DO:25:LEU:HD11	47:DO:40:VAL:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:75:SER:OG	52:DT:74:ARG:NH1	2.46	0.46
48:DP:75:ILE:N	48:DP:75:ILE:CD1	2.75	0.46
48:DP:122:PRO:HB3	48:DP:141:ALA:CB	2.44	0.46
49:DQ:12:GLN:HE21	49:DQ:73:PRO:CD	2.23	0.46
53:DU:22:LYS:HA	53:DU:22:LYS:HD3	1.74	0.46
54:DV:7:THR:O	54:DV:7:THR:HG23	2.15	0.46
55:DW:6:ILE:HG12	55:DW:104:THR:HA	1.96	0.46
57:DY:13:VAL:O	57:DY:24:VAL:HG13	2.15	0.46
1:AA:28:G:H1	1:AA:555:C:H42	1.64	0.46
1:AA:670:G:N2	1:AA:671:G:N3	2.64	0.46
1:AA:691:G:H2'	1:AA:692:U:H6	1.81	0.46
1:AA:750:G:C2	15:AO:23:GLY:HA3	2.51	0.46
1:AA:756:C:H2'	1:AA:757:U:O4'	2.16	0.46
1:AA:1047:G:C2'	1:AA:1048:G:H5'	2.46	0.46
1:AA:1171:G:O2'	1:AA:1172:C:H5'	2.16	0.46
1:AA:1226:C:N4	13:AM:104:ARG:HB2	2.31	0.46
1:AA:1498:U:C5	23:AX:20:U:C5'	2.94	0.46
2:AB:48:MET:O	2:AB:51:LEU:N	2.48	0.46
2:AB:57:PHE:CZ	2:AB:199:TYR:HE1	2.33	0.46
2:AB:104:ASN:OD1	2:AB:104:ASN:O	2.34	0.46
2:AB:167:PRO:HG3	2:AB:188:ALA:HB2	1.97	0.46
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.58	0.46
6:AF:39:LYS:HB2	6:AF:64:GLN:HB3	1.98	0.46
10:AJ:12:ASP:OD1	10:AJ:15:THR:HG23	2.15	0.46
10:AJ:92:THR:CG2	10:AJ:93:GLY:N	2.76	0.46
12:AL:17:LYS:HZ2	12:AL:18:VAL:HG22	1.80	0.46
13:AM:36:LYS:C	13:AM:38:GLY:H	2.19	0.46
14:AN:50:LYS:C	14:AN:52:GLN:H	2.19	0.46
18:AR:43:PHE:CD1	18:AR:66:LEU:HD11	2.51	0.46
19:AS:31:ILE:CG2	19:AS:49:ILE:HA	2.44	0.46
19:AS:35:SER:C	19:AS:37:ARG:N	2.69	0.46
20:AT:18:GLN:O	20:AT:22:ARG:HD2	2.15	0.46
20:AT:19:SER:O	20:AT:20:LEU:C	2.54	0.46
22:AV:28:G:H2'	22:AV:29:G:H8	1.81	0.46
22:AV:56:C:C1'	42:BG:76:SER:CB	2.93	0.46
30:B4:8:LYS:HG2	30:B4:9:LEU:O	2.16	0.46
31:B5:19:ARG:O	31:B5:21:SER:N	2.49	0.46
33:B7:18:PHE:CG	36:BA:126:A:C8	3.03	0.46
34:B8:8:LYS:HA	34:B8:11:LYS:CD	2.45	0.46
35:B9:7:VAL:HG13	35:B9:34:GLN:CB	2.45	0.46
36:BA:440:G:H8	36:BA:440:G:O5'	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:449:A:H1'	53:BU:3:ARG:HE	1.81	0.46
36:BA:510:C:OP1	36:BA:511:U:OP2	2.34	0.46
36:BA:603:A:C2	36:BA:655:A:N1	2.84	0.46
36:BA:610:G:H2'	36:BA:611:C:C6	2.51	0.46
36:BA:771:G:C5	36:BA:772:C:C5	3.03	0.46
36:BA:784:A:C5	39:BD:229:VAL:HG11	2.50	0.46
36:BA:884:C:N3	36:BA:893:C:N3	2.64	0.46
36:BA:896:A:C5'	58:BZ:146:ILE:HD12	2.46	0.46
36:BA:1203:G:C6	36:BA:1204:A:N6	2.84	0.46
36:BA:1290:C:H6	36:BA:1290:C:O5'	1.98	0.46
36:BA:1292:U:H2'	36:BA:1293:C:C5	2.51	0.46
36:BA:1345:C:H2'	36:BA:1346:G:C5'	2.44	0.46
36:BA:1403:C:H2'	36:BA:1404:C:O5'	2.15	0.46
36:BA:1509(B):A:C2'	36:BA:1510:G:H5'	2.45	0.46
36:BA:1817:G:OP1	39:BD:88:ARG:NH2	2.48	0.46
36:BA:1917:U:O2'	36:BA:1918:A:H5'	2.16	0.46
36:BA:2049:G:O2'	36:BA:2050:C:H5'	2.16	0.46
36:BA:2100:G:C4	36:BA:2190:G:C6	3.04	0.46
36:BA:2205:C:C2	36:BA:2220:G:N1	2.84	0.46
36:BA:2307:G:H3'	36:BA:2307:G:N3	2.31	0.46
36:BA:2350:C:O2'	36:BA:2351:G:H5'	2.16	0.46
36:BA:2422:A:HO2'	36:BA:2423:U:C5'	2.28	0.46
37:BB:48:A:H4'	51:BS:95:HIS:HD2	1.80	0.46
38:BC:46:LYS:NZ	38:BC:168:THR:O	2.48	0.46
39:BD:70:TRP:HZ3	39:BD:146:GLU:OE2	1.99	0.46
40:BE:2:LYS:O	40:BE:199:ARG:HA	2.16	0.46
41:BF:132:VAL:HG13	41:BF:133:ASN:H	1.80	0.46
41:BF:198:ALA:HA	41:BF:201:VAL:HG12	1.98	0.46
42:BG:18:GLU:O	42:BG:21:ARG:N	2.49	0.46
42:BG:74:LYS:O	42:BG:75:LYS:C	2.53	0.46
42:BG:96:ARG:HA	42:BG:100:TRP:HD1	1.79	0.46
42:BG:139:LEU:HA	42:BG:144:ILE:CG2	2.46	0.46
43:BH:65:HIS:C	43:BH:67:LEU:N	2.68	0.46
43:BH:144:VAL:HA	43:BH:147:ASN:HB2	1.97	0.46
46:BN:25:ARG:HH11	46:BN:25:ARG:CG	2.28	0.46
46:BN:38:HIS:O	53:BU:67:ALA:O	2.32	0.46
46:BN:62:VAL:HG21	46:BN:66:LYS:HB2	1.98	0.46
46:BN:133:GLN:CG	46:BN:135:PRO:HD3	2.29	0.46
48:BP:95:VAL:HA	48:BP:99:LEU:CD2	2.46	0.46
48:BP:126:VAL:CA	48:BP:145:PRO:HB2	2.39	0.46
50:BR:17:ARG:O	50:BR:20:LEU:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:92:ARG:C	53:BU:94:ASN:N	2.68	0.46
53:BU:95:LEU:HD12	54:BV:11:GLN:NE2	2.28	0.46
55:BW:6:ILE:HA	55:BW:103:ILE:O	2.16	0.46
58:BZ:24:LEU:HB3	58:BZ:39:VAL:O	2.16	0.46
58:BZ:96:VAL:HG13	58:BZ:97:GLU:N	2.30	0.46
1:CA:255:G:O6	1:CA:266:G:O6	2.34	0.46
1:CA:312:C:H2'	1:CA:313:A:H8	1.80	0.46
1:CA:367:U:H4'	25:CZ:291:ARG:HH11	1.81	0.46
1:CA:409:G:H3'	1:CA:410:G:H8	1.80	0.46
1:CA:445:G:C6	1:CA:490:G:C6	3.04	0.46
1:CA:493:G:H8	1:CA:493:G:O5'	1.99	0.46
1:CA:522:C:C2'	1:CA:523:A:H8	2.28	0.46
1:CA:730:G:H2'	1:CA:731:G:O4'	2.16	0.46
1:CA:779:C:O2'	1:CA:780:A:H5'	2.16	0.46
1:CA:922:G:C6	1:CA:923:A:C6	3.04	0.46
1:CA:1089:G:H2'	1:CA:1090:U:H6	1.80	0.46
1:CA:1152:A:H5''	10:CJ:13:HIS:CB	2.45	0.46
2:CB:179:LYS:C	2:CB:181:PHE:H	2.19	0.46
2:CB:180:LEU:HB2	2:CB:182:ILE:HG13	1.97	0.46
3:CC:13:GLY:O	3:CC:14:ILE:HB	2.16	0.46
8:CH:17:THR:HB	8:CH:78:GLN:NE2	2.29	0.46
8:CH:21:LYS:O	8:CH:22:GLU:C	2.53	0.46
8:CH:36:LEU:C	8:CH:38:ILE:N	2.68	0.46
8:CH:83:ILE:HG23	8:CH:83:ILE:O	2.15	0.46
8:CH:120:THR:C	8:CH:122:ARG:N	2.69	0.46
10:CJ:62:HIS:O	14:CN:59:ALA:HB3	2.15	0.46
12:CL:75:HIS:CD2	12:CL:77:LEU:HB2	2.51	0.46
15:CO:23:GLY:O	15:CO:24:SER:CB	2.62	0.46
15:CO:69:TYR:CG	15:CO:69:TYR:O	2.69	0.46
20:CT:36:LEU:HD13	20:CT:36:LEU:C	2.36	0.46
20:CT:42:GLN:HB2	20:CT:42:GLN:HE21	1.55	0.46
22:CV:46:G:H5'	22:CV:47:U:OP2	2.15	0.46
22:CW:10:G:C2'	22:CW:11:C:H5'	2.46	0.46
25:CZ:23:GLY:HA2	62:CZ:501:GDP:O2A	2.16	0.46
25:CZ:118:GLU:C	25:CZ:120:ILE:N	2.67	0.46
25:CZ:134:PHE:CD2	25:CZ:136:ASN:HB2	2.51	0.46
25:CZ:202:LEU:C	25:CZ:204:ASP:H	2.19	0.46
25:CZ:267:VAL:O	25:CZ:267:VAL:HG13	2.16	0.46
25:CZ:300:ARG:H	25:CZ:300:ARG:HG3	1.52	0.46
26:D0:23:VAL:HG13	26:D0:38:VAL:HG22	1.98	0.46
28:D2:30:ARG:C	28:D2:33:MET:HB3	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:4:HIS:O	36:DA:2056:G:N1	2.49	0.46
31:D5:40:LYS:HZ3	31:D5:45:VAL:CA	2.26	0.46
32:D6:30:THR:HG21	36:DA:2286:A:OP2	2.16	0.46
33:D7:39:ARG:HA	36:DA:459:U:OP1	2.16	0.46
36:DA:158:U:H2'	36:DA:171:G:O4'	2.16	0.46
36:DA:309:G:O3'	57:DY:18:GLY:HA2	2.16	0.46
36:DA:813:U:H2'	36:DA:814:C:C5	2.50	0.46
36:DA:848:G:H5'	36:DA:848:G:H8	1.81	0.46
36:DA:850:C:C4	36:DA:851:U:C5	3.04	0.46
36:DA:1292:U:O2'	36:DA:1293:C:H5'	2.15	0.46
36:DA:1555:G:C2	36:DA:1556:C:C5	3.03	0.46
36:DA:1801:G:N3	36:DA:1801:G:O5'	2.49	0.46
36:DA:1932:A:C2'	36:DA:1933:G:H5'	2.46	0.46
36:DA:2110:G:N1	36:DA:2178:C:N4	2.59	0.46
36:DA:2133:G:N1	36:DA:2157:G:O6	2.49	0.46
36:DA:2138:C:H2'	36:DA:2139:C:H6	1.80	0.46
36:DA:2241:A:H2'	36:DA:2242:G:C8	2.51	0.46
36:DA:2307:G:H21	36:DA:2308:G:C5'	2.29	0.46
36:DA:2580:U:C6	36:DA:2581:G:C6	3.04	0.46
36:DA:2626:C:O5'	36:DA:2626:C:H6	1.98	0.46
36:DA:2661:G:H2'	36:DA:2662:A:O4'	2.15	0.46
36:DA:2682:U:C1'	40:DE:12:THR:HA	2.46	0.46
37:DB:64:C:H2'	37:DB:65:C:O4'	2.15	0.46
38:DC:115:ALA:O	38:DC:149:ILE:HD13	2.15	0.46
39:DD:52:ARG:HB2	39:DD:53:PHE:CD2	2.51	0.46
39:DD:74:GLY:O	39:DD:76:PRO:HD3	2.16	0.46
40:DE:31:CYS:HB3	40:DE:49:LEU:HD12	1.96	0.46
40:DE:144:ARG:HB3	40:DE:145:LYS:H	1.46	0.46
41:DF:127:GLU:OE1	41:DF:196:LEU:HD12	2.14	0.46
41:DF:167:ALA:HB1	41:DF:173:VAL:CG1	2.45	0.46
42:DG:97:ASP:O	42:DG:100:TRP:HB2	2.16	0.46
50:DR:18:LEU:HD13	50:DR:18:LEU:C	2.36	0.46
50:DR:41:ALA:O	50:DR:42:LYS:C	2.53	0.46
50:DR:75:LEU:HD22	50:DR:75:LEU:HA	1.79	0.46
52:DT:6:LEU:HA	52:DT:9:LEU:CD1	2.45	0.46
52:DT:92:GLY:HA3	52:DT:120:ARG:NH2	2.31	0.46
53:DU:95:LEU:HD13	54:DV:4:ILE:HG23	1.97	0.46
53:DU:101:ARG:O	53:DU:102:GLU:C	2.54	0.46
54:DV:88:ARG:O	54:DV:90:PRO:CD	2.63	0.46
1:AA:59:A:C6	1:AA:331:G:H1'	2.50	0.46
1:AA:61:G:O2'	1:AA:386:C:H1'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:255:G:O6	1:AA:266:G:O6	2.34	0.46
1:AA:386:C:C2'	1:AA:387:U:C5'	2.82	0.46
1:AA:431:A:C2'	1:AA:432:A:H5'	2.45	0.46
1:AA:1070:U:O2'	1:AA:1071:C:H5'	2.15	0.46
1:AA:1165:C:H42	1:AA:1172:C:N4	2.14	0.46
1:AA:1249:C:H6	1:AA:1249:C:C5'	2.24	0.46
1:AA:1254:C:H2'	1:AA:1255:G:C8	2.51	0.46
1:AA:1353:G:H2'	1:AA:1354:C:C5	2.50	0.46
1:AA:1463:C:C5'	52:BT:115:ARG:NH2	2.79	0.46
2:AB:48:MET:N	2:AB:51:LEU:HD12	2.31	0.46
2:AB:162:ILE:HG12	2:AB:163:PHE:N	2.31	0.46
3:AC:60:ALA:N	3:AC:63:ASN:HD21	2.14	0.46
3:AC:122:GLU:O	3:AC:124:ILE:N	2.48	0.46
4:AD:17:VAL:HG21	4:AD:63:LYS:HZ2	1.81	0.46
4:AD:180:GLY:O	4:AD:181:MET:C	2.53	0.46
8:AH:13:ILE:O	8:AH:14:ARG:C	2.54	0.46
8:AH:134:ILE:O	8:AH:135:CYS:HB3	2.16	0.46
25:AZ:35:ALA:HB3	25:AZ:70:TYR:HB2	1.98	0.46
25:AZ:92:MET:O	25:AZ:95:GLY:N	2.49	0.46
25:AZ:273:HIS:C	25:AZ:275:LYS:H	2.18	0.46
27:B1:45:ASN:HA	36:BA:2230:G:H1'	1.97	0.46
27:B1:46:LEU:HA	27:B1:46:LEU:HD13	1.78	0.46
29:B3:2:PRO:O	29:B3:3:ARG:O	2.34	0.46
30:B4:16:CYS:HA	30:B4:33:VAL:HG12	1.97	0.46
33:B7:15:THR:CG2	33:B7:15:THR:O	2.63	0.46
35:B9:1:MET:CE	36:BA:2477:C:H3'	2.45	0.46
36:BA:67:U:H2'	36:BA:68:G:H8	1.81	0.46
36:BA:178:G:O2'	36:BA:179:G:H5'	2.15	0.46
36:BA:225:A:C2	36:BA:231:C:C2	3.03	0.46
36:BA:398:G:H5''	36:BA:2090:G:C4'	2.46	0.46
36:BA:579:G:H4'	36:BA:2017:U:H2'	1.98	0.46
36:BA:666:G:H2'	36:BA:667:U:C5	2.51	0.46
36:BA:820:A:H1'	36:BA:943:U:O2'	2.14	0.46
36:BA:833:U:O2	48:BP:55:ARG:NH1	2.46	0.46
36:BA:942:G:H5''	48:BP:36:LYS:HA	1.98	0.46
36:BA:1022:G:H22	36:BA:1142(A):A:H2	1.64	0.46
36:BA:1298:C:C1'	36:BA:1302:A:C2	2.98	0.46
36:BA:1389:G:C5'	36:BA:1526:G:OP1	2.64	0.46
36:BA:1510:G:H2'	36:BA:1511:C:C6	2.50	0.46
36:BA:1672:C:C4	36:BA:1673:U:C5	3.04	0.46
36:BA:2061:G:H5''	36:BA:2503:A:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2140:C:H2'	36:BA:2141:G:C8	2.50	0.46
36:BA:2355:C:C5	36:BA:2356:C:C4	3.04	0.46
36:BA:2371:G:C2	36:BA:2372:G:C4	3.04	0.46
36:BA:2521:C:H5'	36:BA:2522:U:OP2	2.15	0.46
36:BA:2526:G:H8	36:BA:2526:G:O5'	1.98	0.46
36:BA:2661:G:H2'	36:BA:2662:A:O4'	2.15	0.46
39:BD:213:ARG:HD2	39:BD:213:ARG:HA	1.67	0.46
40:BE:34:VAL:O	40:BE:35:GLN:CB	2.53	0.46
40:BE:143:ASN:ND2	40:BE:143:ASN:N	2.64	0.46
40:BE:154:LYS:O	40:BE:155:LYS:C	2.54	0.46
41:BF:162:LEU:H	41:BF:162:LEU:CD1	2.27	0.46
42:BG:4:ASP:OD1	42:BG:4:ASP:O	2.34	0.46
42:BG:32:PRO:O	42:BG:33:ARG:HG3	2.16	0.46
42:BG:43:LEU:HD11	42:BG:153:ARG:HB2	1.98	0.46
42:BG:87:PRO:CG	42:BG:88:ILE:H	2.24	0.46
42:BG:125:PHE:CZ	42:BG:131:TYR:CD1	3.02	0.46
43:BH:144:VAL:HG12	43:BH:144:VAL:O	2.16	0.46
44:BJ:79:UNK:O	44:BJ:80:UNK:CB	2.63	0.46
48:BP:9:ASN:O	48:BP:10:PRO:C	2.52	0.46
49:BQ:77:LYS:HD3	49:BQ:81:VAL:HG11	1.98	0.46
49:BQ:141:GLN:HE22	58:BZ:72:ARG:CA	2.28	0.46
51:BS:14:VAL:O	51:BS:15:ARG:C	2.53	0.46
51:BS:24:LEU:HD22	51:BS:24:LEU:N	2.31	0.46
52:BT:6:LEU:HA	52:BT:9:LEU:CD1	2.46	0.46
52:BT:33:LYS:HG3	52:BT:43:GLN:HB2	1.97	0.46
53:BU:62:ILE:HG23	53:BU:76:TYR:CZ	2.51	0.46
57:BY:33:LYS:C	57:BY:35:TYR:H	2.19	0.46
58:BZ:10:ARG:CG	58:BZ:11:GLU:N	2.79	0.46
1:CA:16:A:N1	1:CA:919:A:H2	2.14	0.46
1:CA:36:C:H5''	12:CL:123:LYS:HA	1.98	0.46
1:CA:59:A:C6	1:CA:331:G:H1'	2.50	0.46
1:CA:182:U:N3	1:CA:183:G:H1'	2.31	0.46
1:CA:578:C:H2'	1:CA:579:G:H8	1.80	0.46
1:CA:1171:G:O2'	1:CA:1172:C:H5'	2.15	0.46
2:CB:83:MET:O	2:CB:85:ALA:N	2.49	0.46
2:CB:121:LEU:HD23	2:CB:121:LEU:C	2.35	0.46
5:CE:24:ARG:HG2	5:CE:24:ARG:HH11	1.80	0.46
5:CE:48:ALA:C	5:CE:50:GLU:N	2.69	0.46
7:CG:105:VAL:O	7:CG:108:ALA:N	2.49	0.46
8:CH:11:THR:HA	8:CH:14:ARG:NH1	2.31	0.46
8:CH:137:VAL:HG12	8:CH:138:TRP:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:96:LEU:O	9:CI:99:LEU:O	2.33	0.46
10:CJ:63:PHE:N	10:CJ:63:PHE:CD2	2.83	0.46
12:CL:60:LEU:N	12:CL:60:LEU:HD22	2.31	0.46
13:CM:74:VAL:HA	13:CM:77:ASN:ND2	2.31	0.46
19:CS:51:VAL:HG21	19:CS:71:LEU:HB3	1.98	0.46
20:CT:59:ALA:O	20:CT:60:GLU:C	2.55	0.46
21:CU:18:TYR:HB3	21:CU:22:ARG:O	2.16	0.46
22:CV:53:G:H2'	22:CV:54:U:C6	2.51	0.46
24:CY:51:C:H2'	24:CY:52:A:C8	2.51	0.46
24:CY:77:THR:HG22	25:CZ:239:THR:CG2	2.46	0.46
25:CZ:279:GLU:O	25:CZ:280:GLY:C	2.54	0.46
27:D1:50:ARG:NH1	36:DA:2200:C:OP2	2.48	0.46
27:D1:81:LYS:O	27:D1:82:LEU:CD1	2.64	0.46
27:D1:90:ILE:O	27:D1:94:LEU:HD13	2.15	0.46
29:D3:19:GLN:C	29:D3:21:ALA:H	2.18	0.46
32:D6:27:LYS:O	32:D6:28:ARG:C	2.54	0.46
34:D8:52:LYS:O	34:D8:55:ALA:HB3	2.15	0.46
35:D9:12:ASP:C	35:D9:14:CYS:N	2.69	0.46
36:DA:178:G:C2	36:DA:179:G:C8	3.04	0.46
36:DA:280:C:H2'	36:DA:281:G:H5'	1.97	0.46
36:DA:472:A:H2'	36:DA:473:G:H5'	1.98	0.46
36:DA:568:U:H2'	36:DA:570:G:OP2	2.15	0.46
36:DA:856:C:H2'	36:DA:857:C:H6	1.79	0.46
36:DA:883:G:N2	36:DA:893:C:C2	2.84	0.46
36:DA:996:A:O2'	36:DA:997:G:C5'	2.54	0.46
36:DA:1510:G:H2'	36:DA:1511:C:C6	2.50	0.46
36:DA:1519:G:H5'	36:DA:1520:G:P	2.55	0.46
36:DA:1652:A:C6	36:DA:1653:G:C2	3.04	0.46
36:DA:1967:C:H2'	36:DA:1968:G:O4'	2.16	0.46
36:DA:2152:G:C2	36:DA:2153:G:C8	3.03	0.46
36:DA:2346:A:H5'	36:DA:2383:G:C1'	2.46	0.46
36:DA:2435:A:C6	36:DA:2436:G:N7	2.84	0.46
36:DA:2744:G:C2	36:DA:2761:G:C4	3.04	0.46
36:DA:2867:G:C5	52:DT:23:ARG:NH1	2.84	0.46
39:DD:244:ARG:HA	39:DD:245:PRO:HA	1.65	0.46
40:DE:24:THR:O	40:DE:183:LEU:HA	2.16	0.46
41:DF:32:LEU:HD23	41:DF:32:LEU:C	2.35	0.46
41:DF:59:TYR:N	41:DF:59:TYR:CD2	2.81	0.46
41:DF:169:ASN:O	41:DF:170:LEU:O	2.34	0.46
42:DG:137:GLU:OE1	42:DG:139:LEU:HD11	2.16	0.46
43:DH:83:TYR:O	43:DH:84:SER:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:11:PRO:O	46:DN:13:TRP:HD1	1.99	0.46
46:DN:22:THR:N	46:DN:61:ARG:HB2	2.31	0.46
47:DO:14:THR:O	47:DO:14:THR:HG22	2.15	0.46
48:DP:105:LEU:H	48:DP:105:LEU:CD1	2.28	0.46
48:DP:109:GLY:O	48:DP:110:TYR:C	2.54	0.46
51:DS:15:ARG:NH1	51:DS:18:ILE:HD11	2.30	0.46
52:DT:100:TYR:HD2	52:DT:103:ARG:NH2	2.14	0.46
56:DX:35:THR:HG21	56:DX:37:THR:HB	1.98	0.46
57:DY:73:ARG:HE	57:DY:73:ARG:CA	2.27	0.46
1:AA:35:G:C6	1:AA:36:C:N4	2.84	0.46
1:AA:60:A:H8	1:AA:60:A:P	2.39	0.46
1:AA:190:U:H2'	1:AA:191:G:H8	1.81	0.46
1:AA:399:G:H2'	1:AA:400:C:C6	2.51	0.46
1:AA:484:G:H4'	1:AA:485:G:H4'	1.98	0.46
1:AA:507:C:C6	1:AA:508:C:C5	3.03	0.46
1:AA:522:C:N4	1:AA:528:C:H42	2.14	0.46
1:AA:542:G:O2'	1:AA:543:C:H5'	2.15	0.46
1:AA:581:G:C6	1:AA:758:G:C5	3.03	0.46
1:AA:966:G:O2'	1:AA:967:C:P	2.73	0.46
1:AA:1095:U:H2'	1:AA:1096:C:H6	1.71	0.46
1:AA:1441:G:H1'	1:AA:1460:A:H61	1.81	0.46
3:AC:187:ALA:O	3:AC:188:LEU:CD2	2.63	0.46
10:AJ:38:ILE:O	10:AJ:40:LEU:HD22	2.16	0.46
12:AL:60:LEU:C	12:AL:62:SER:H	2.17	0.46
15:AO:82:ILE:CG2	15:AO:83:GLU:N	2.77	0.46
16:AP:40:ASP:HA	16:AP:41:PRO:HD2	1.79	0.46
17:AQ:17:LYS:HA	17:AQ:46:ASP:O	2.16	0.46
22:AV:19:G:N1	42:BG:83:ARG:CZ	2.79	0.46
22:AV:49:C:HO2'	22:AV:50:U:P	2.38	0.46
22:AW:65:G:O2'	22:AW:66:U:H5'	2.15	0.46
25:AZ:24:LYS:CE	25:AZ:84:GLY:HA3	2.46	0.46
26:B0:51:VAL:HG22	26:B0:81:VAL:HG23	1.98	0.46
29:B3:7:LYS:HG3	29:B3:34:GLU:HB3	1.97	0.46
32:B6:32:ASN:ND2	32:B6:33:LYS:H	2.13	0.46
36:BA:93:G:H2'	36:BA:94:C:C6	2.51	0.46
36:BA:247:G:H1'	36:BA:251:A:N6	2.29	0.46
36:BA:381:G:O2'	36:BA:382:G:H5'	2.16	0.46
36:BA:609:A:H2'	36:BA:610:G:O4'	2.16	0.46
36:BA:672:C:C2'	36:BA:673:C:C5'	2.89	0.46
36:BA:850:C:C4	36:BA:851:U:C5	3.03	0.46
36:BA:876:C:H2'	36:BA:877:U:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:909:A:O2'	36:BA:910:A:C5'	2.64	0.46
36:BA:1275:A:N3	36:BA:1276:A:H1'	2.31	0.46
36:BA:1525:G:H2'	36:BA:1526:G:C8	2.50	0.46
36:BA:2675:A:N3	36:BA:2675:A:H2'	2.29	0.46
37:BB:81:G:N3	37:BB:81:G:H5'	2.31	0.46
37:BB:98:G:C4	37:BB:99:G:C8	3.04	0.46
38:BC:43:VAL:CG2	38:BC:175:VAL:HG21	2.44	0.46
38:BC:207:THR:HB	38:BC:210:ARG:NH1	2.31	0.46
39:BD:37:LEU:O	39:BD:38:LYS:C	2.54	0.46
39:BD:131:LEU:HD13	39:BD:136:ILE:CD1	2.43	0.46
39:BD:173:VAL:HG12	39:BD:185:VAL:O	2.16	0.46
39:BD:266:SER:C	39:BD:267:SER:O	2.54	0.46
40:BE:34:VAL:O	40:BE:34:VAL:CG2	2.64	0.46
41:BF:168:ARG:CG	41:BF:169:ASN:N	2.79	0.46
41:BF:169:ASN:O	41:BF:170:LEU:C	2.54	0.46
41:BF:175:THR:C	41:BF:176:LEU:HD12	2.37	0.46
47:BO:47:ILE:HG23	47:BO:48:PRO:CD	2.35	0.46
51:BS:84:GLN:N	51:BS:105:ALA:HB3	2.31	0.46
51:BS:96:GLY:C	51:BS:98:VAL:N	2.69	0.46
53:BU:65:ILE:HD11	53:BU:96:ALA:CB	2.45	0.46
57:BY:73:ARG:HA	57:BY:73:ARG:NE	2.28	0.46
1:CA:80:G:H3'	1:CA:81:U:C5'	2.45	0.46
1:CA:169:C:O2	1:CA:169:C:H2'	2.15	0.46
1:CA:266:G:H1'	1:CA:268:C:OP2	2.15	0.46
1:CA:443:C:H2'	1:CA:444:C:H6	1.81	0.46
1:CA:449:C:O2	16:CP:42:ARG:HG2	2.15	0.46
1:CA:505:G:C5	1:CA:506:G:N7	2.84	0.46
1:CA:811:C:C4'	1:CA:900:A:N6	2.74	0.46
1:CA:836:G:H2'	1:CA:837:G:H8	1.81	0.46
1:CA:977:A:H62	1:CA:1223:C:H2'	1.79	0.46
1:CA:1095:U:H2'	1:CA:1096:C:O4'	2.16	0.46
1:CA:1179:A:H5'	9:CI:102:LEU:HD22	1.98	0.46
1:CA:1206:G:C2'	1:CA:1207:G:H5'	2.46	0.46
1:CA:1406:U:H2'	1:CA:1407:C:C6	2.49	0.46
1:CA:1445:C:H2'	1:CA:1446:U:H6	1.81	0.46
2:CB:36:ARG:NE	2:CB:36:ARG:HA	2.31	0.46
5:CE:76:ILE:HG12	5:CE:78:HIS:N	2.23	0.46
6:CF:62:TRP:CZ2	18:CR:35:ARG:NH2	2.84	0.46
6:CF:93:SER:C	6:CF:94:GLN:HG3	2.36	0.46
7:CG:13:GLN:CD	7:CG:14:PRO:HD2	2.35	0.46
7:CG:145:ALA:HA	7:CG:148:ASN:HD22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:5:ARG:O	10:CJ:99:LYS:HG2	2.15	0.46
16:CP:27:LYS:CG	16:CP:30:GLY:HA3	2.40	0.46
19:CS:40:ILE:HD13	19:CS:66:MET:O	2.15	0.46
25:CZ:107:SER:HB3	25:CZ:110:ASP:HB2	1.98	0.46
25:CZ:246:LYS:CB	25:CZ:281:ILE:HG22	2.33	0.46
25:CZ:257:GLY:C	25:CZ:258:LEU:HD12	2.36	0.46
31:D5:18:ALA:O	31:D5:21:SER:HB3	2.16	0.46
31:D5:34:PRO:HG3	36:DA:2885:C:O2'	2.16	0.46
31:D5:38:ALA:HB1	31:D5:48:GLU:HB3	1.95	0.46
32:D6:19:ARG:CZ	36:DA:2400:G:O3'	2.64	0.46
32:D6:22:ALA:HB2	32:D6:39:TYR:CZ	2.51	0.46
35:D9:7:VAL:HG13	35:D9:34:GLN:CB	2.46	0.46
36:DA:25:U:H5'	55:DW:78:GLU:O	2.16	0.46
36:DA:28:A:H1'	36:DA:513:A:C2	2.51	0.46
36:DA:29:U:OP1	36:DA:583:G:H4'	2.16	0.46
36:DA:55:G:H2'	36:DA:55:G:N3	2.31	0.46
36:DA:272(E):G:H22	36:DA:364:C:H1'	1.81	0.46
36:DA:478:A:N1	36:DA:500:G:H4'	2.30	0.46
36:DA:479:A:H4'	36:DA:480:A:H5'	1.98	0.46
36:DA:821:A:C5'	36:DA:822:U:C6	2.98	0.46
36:DA:1273:U:H5''	36:DA:1646:C:H41	1.81	0.46
36:DA:1814:G:C4'	39:DD:51:VAL:HG21	2.46	0.46
36:DA:2130:U:OP1	38:DC:5:LYS:HG2	2.15	0.46
36:DA:2222:G:C4	36:DA:2223:G:C8	3.04	0.46
36:DA:2257:U:H2'	36:DA:2258:C:C6	2.51	0.46
36:DA:2355:C:C5	36:DA:2356:C:C4	3.04	0.46
36:DA:2527:C:C5	36:DA:2528:U:C5	3.04	0.46
36:DA:2530:A:C2'	36:DA:2531:A:H5''	2.46	0.46
36:DA:2880:C:H1'	50:DR:92:GLY:O	2.16	0.46
37:DB:87:G:C3'	37:DB:88:C:H5''	2.45	0.46
38:DC:49:ILE:HD12	38:DC:50:ASP:N	2.31	0.46
39:DD:26:LYS:C	39:DD:27:THR:HG22	2.36	0.46
39:DD:85:ASP:CG	39:DD:88:ARG:HH11	2.18	0.46
40:DE:55:ASN:O	40:DE:56:PRO:C	2.52	0.46
41:DF:115:ALA:O	41:DF:118:ALA:N	2.48	0.46
42:DG:57:ALA:HA	42:DG:90:LEU:HD21	1.98	0.46
42:DG:125:PHE:CE2	42:DG:131:TYR:HD1	2.34	0.46
42:DG:129:GLY:O	42:DG:130:ASN:ND2	2.49	0.46
42:DG:137:GLU:HG2	42:DG:138:GLN:H	1.81	0.46
47:DO:88:ASN:HD21	47:DO:92:GLU:CB	2.27	0.46
49:DQ:55:VAL:HA	49:DQ:58:PHE:HE1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:14:SER:O	50:DR:17:ARG:N	2.42	0.46
51:DS:27:SER:C	51:DS:28:VAL:CG2	2.84	0.46
52:DT:89:VAL:O	52:DT:90:GLN:C	2.54	0.46
53:DU:78:THR:O	53:DU:81:HIS:HB3	2.16	0.46
54:DV:91:TYR:HE1	54:DV:93:GLU:HG3	1.80	0.46
55:DW:17:VAL:C	55:DW:19:LEU:H	2.19	0.46
55:DW:36:LEU:HD23	55:DW:36:LEU:N	2.08	0.46
56:DX:10:ALA:O	56:DX:28:PHE:HB2	2.16	0.46
56:DX:26:TYR:CD1	56:DX:26:TYR:N	2.84	0.46
57:DY:12:THR:CG2	57:DY:13:VAL:N	2.79	0.46
58:DZ:105:VAL:CG1	58:DZ:139:VAL:O	2.63	0.46
1:AA:8:A:OP1	1:AA:8:A:H3'	2.15	0.46
1:AA:191:G:N3	20:AT:105:SER:HB3	2.31	0.46
1:AA:799:G:C6	1:AA:800:G:C4	3.04	0.46
1:AA:963:G:H21	10:AJ:55:LYS:CD	2.28	0.46
1:AA:1192:C:H2'	1:AA:1193:G:O5'	2.16	0.46
1:AA:1205:U:H4'	3:AC:195:VAL:CG2	2.33	0.46
1:AA:1271:G:H5'	1:AA:1314:C:C5'	2.46	0.46
1:AA:1381:U:C5	1:AA:1382:C:C4	3.04	0.46
2:AB:74:LYS:O	2:AB:74:LYS:HG3	2.15	0.46
4:AD:28:SER:CB	4:AD:29:PRO:CD	2.84	0.46
4:AD:159:ARG:O	4:AD:162:LEU:N	2.48	0.46
7:AG:8:GLU:OE2	7:AG:9:VAL:C	2.54	0.46
7:AG:95:ARG:O	7:AG:97:GLN:N	2.48	0.46
10:AJ:7:LYS:H	10:AJ:97:GLU:HB2	1.81	0.46
12:AL:60:LEU:N	12:AL:60:LEU:CD2	2.78	0.46
16:AP:14:ASN:CA	16:AP:42:ARG:HH12	2.16	0.46
17:AQ:30:PRO:HG2	17:AQ:31:LEU:H	1.81	0.46
20:AT:13:LEU:O	20:AT:16:HIS:N	2.39	0.46
20:AT:84:LEU:O	20:AT:88:VAL:HG23	2.16	0.46
25:AZ:93:ILE:HG23	25:AZ:126:VAL:HG21	1.98	0.46
25:AZ:146:LEU:O	25:AZ:150:VAL:N	2.42	0.46
25:AZ:342:PHE:N	25:AZ:342:PHE:CD1	2.84	0.46
26:B0:25:ARG:HG3	26:B0:31:VAL:HG11	1.98	0.46
26:B0:47:PRO:O	26:B0:78:TYR:CD2	2.69	0.46
36:BA:47:C:C5	36:BA:48:G:N7	2.84	0.46
36:BA:83:G:N2	36:BA:102:G:C2'	2.79	0.46
36:BA:89:G:H8	36:BA:89:G:O5'	1.98	0.46
36:BA:587:C:N4	48:BP:33:ARG:HB2	2.30	0.46
36:BA:920:G:O2'	36:BA:921:G:H5'	2.15	0.46
36:BA:1227:G:C2'	36:BA:1228:G:H5'	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1301:A:HO2'	36:BA:1302:A:P	2.37	0.46
36:BA:1518:U:C2	36:BA:1519:G:H1'	2.51	0.46
36:BA:1670:C:C2'	36:BA:1671:U:H5'	2.46	0.46
36:BA:1827:C:OP2	39:BD:222:ARG:NH1	2.49	0.46
36:BA:1967:C:H2'	36:BA:1968:G:O4'	2.15	0.46
36:BA:2061:G:H5''	36:BA:2503:A:C2	2.50	0.46
36:BA:2250:G:N7	49:BQ:83:MET:HG3	2.30	0.46
36:BA:2259:G:O2'	36:BA:2260:C:H5'	2.16	0.46
36:BA:2274:A:C5	36:BA:2276:G:C8	3.04	0.46
36:BA:2298:A:H62	36:BA:2318:G:H8	1.60	0.46
36:BA:2299:G:O2'	36:BA:2300:G:H5'	2.16	0.46
36:BA:2635:C:C2'	36:BA:2636:U:O5'	2.64	0.46
36:BA:2819:G:C6	36:BA:2821:A:N3	2.84	0.46
37:BB:33:G:H2'	37:BB:34:U:O4'	2.16	0.46
38:BC:68:LEU:HD11	38:BC:161:ILE:HG22	1.97	0.46
39:BD:106:ILE:HD11	39:BD:196:VAL:HG22	1.97	0.46
40:BE:87:GLU:O	40:BE:87:GLU:HG3	2.15	0.46
40:BE:131:ALA:HB3	40:BE:134:ILE:HD11	1.96	0.46
40:BE:198:VAL:CG1	40:BE:199:ARG:H	2.14	0.46
42:BG:16:ARG:O	42:BG:18:GLU:N	2.49	0.46
42:BG:120:LEU:HD22	42:BG:133:LEU:HD22	1.98	0.46
42:BG:162:THR:HG22	42:BG:164:GLU:OE2	2.16	0.46
42:BG:168:GLU:C	42:BG:170:ARG:H	2.19	0.46
46:BN:18:ALA:O	46:BN:20:GLY:N	2.49	0.46
48:BP:16:ARG:HH11	48:BP:16:ARG:CA	2.29	0.46
53:BU:78:THR:O	53:BU:81:HIS:HB3	2.16	0.46
56:BX:20:GLY:C	56:BX:22:ALA:H	2.19	0.46
58:BZ:11:GLU:HB2	58:BZ:13:GLU:HG3	1.98	0.46
1:CA:264:U:O2'	17:CQ:64:PRO:HB2	2.16	0.46
1:CA:309:G:H1'	1:CA:608:A:C2	2.51	0.46
1:CA:371:G:H1'	1:CA:482:A:H1'	1.97	0.46
1:CA:695:A:H2'	1:CA:696:A:O4'	2.16	0.46
1:CA:1103:C:H2'	1:CA:1104:G:O4'	2.16	0.46
1:CA:1160:G:H1	1:CA:1177:G:H22	1.64	0.46
1:CA:1174:G:O2'	1:CA:1175:G:H5'	2.16	0.46
1:CA:1377:A:H2'	7:CG:7:ALA:CB	2.47	0.46
1:CA:1426:C:C4	1:CA:1475:G:O6	2.69	0.46
3:CC:34:LEU:HD21	3:CC:38:ARG:HE	1.81	0.46
5:CE:139:LEU:HA	5:CE:142:LEU:CD1	2.46	0.46
9:CI:9:ARG:CB	9:CI:104:ARG:HH12	2.20	0.46
10:CJ:49:VAL:O	10:CJ:49:VAL:CG1	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:94:ALA:O	11:CK:95:ILE:C	2.54	0.46
13:CM:7:VAL:HG22	42:DG:115:ARG:HA	1.95	0.46
13:CM:91:ARG:O	13:CM:92:HIS:C	2.54	0.46
16:CP:66:PRO:HD2	16:CP:71:ARG:NH1	2.31	0.46
19:CS:35:SER:C	19:CS:37:ARG:N	2.69	0.46
20:CT:38:LYS:C	20:CT:40:ALA:H	2.19	0.46
25:CZ:169:PRO:HG2	25:CZ:209:TYR:CD2	2.51	0.46
25:CZ:257:GLY:HA3	25:CZ:302:GLN:HA	1.98	0.46
25:CZ:348:ASP:O	25:CZ:348:ASP:CG	2.54	0.46
25:CZ:360:GLU:O	25:CZ:362:VAL:N	2.48	0.46
26:D0:23:VAL:N	26:D0:38:VAL:HG13	2.31	0.46
27:D1:24:ALA:HB3	27:D1:27:GLU:HB2	1.98	0.46
31:D5:36:CYS:C	31:D5:38:ALA:H	2.19	0.46
32:D6:17:LYS:O	32:D6:18:ARG:CB	2.64	0.46
36:DA:363:G:C2	36:DA:363(A):A:N7	2.83	0.46
36:DA:497:A:C6	36:DA:498:G:C6	3.03	0.46
36:DA:942:G:H5''	48:DP:36:LYS:HA	1.98	0.46
36:DA:1028:A:H8	36:DA:1028:A:O5'	1.99	0.46
36:DA:1270:C:H5''	36:DA:1271:G:O5'	2.16	0.46
36:DA:1277:G:N1	36:DA:1294:U:C2	2.84	0.46
36:DA:1332:G:H5'	36:DA:1333:C:H5	1.81	0.46
36:DA:1450(A):C:O2	36:DA:1450(A):C:H2'	2.15	0.46
36:DA:1520:G:H2'	36:DA:1523:U:H5'	1.98	0.46
36:DA:1670:C:H2'	36:DA:1671:U:O4'	2.17	0.46
36:DA:1794:U:H2'	36:DA:1795:C:C6	2.51	0.46
36:DA:1862:G:N2	36:DA:1881:C:C2	2.84	0.46
36:DA:2083:G:C5	36:DA:2084:C:C4	3.03	0.46
36:DA:2134:A:N3	36:DA:2134:A:H2'	2.30	0.46
36:DA:2821:A:OP2	36:DA:2822:G:OP2	2.34	0.46
38:DC:124:GLY:CA	38:DC:128:GLY:HA3	2.44	0.46
39:DD:89:SER:HB2	39:DD:159:ALA:HB2	1.97	0.46
42:DG:35:GLU:OE2	42:DG:36:LYS:HE3	2.16	0.46
42:DG:56:ALA:CB	42:DG:153:ARG:NH2	2.79	0.46
42:DG:66:GLN:HB2	42:DG:94:LEU:HD21	1.97	0.46
42:DG:76:SER:OG	42:DG:83:ARG:HB3	2.16	0.46
45:DK:31:UNK:C	45:DK:63:UNK:HA	2.46	0.46
46:DN:6:PRO:HB3	46:DN:41:ASP:OD1	2.15	0.46
46:DN:25:ARG:HG2	46:DN:25:ARG:HH11	1.81	0.46
50:DR:34:ILE:HB	50:DR:114:VAL:CG2	2.45	0.46
50:DR:100:LEU:N	50:DR:100:LEU:CD2	2.77	0.46
51:DS:17:ARG:HH21	51:DS:90:GLY:H	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:64:GLU:HA	51:DS:67:ARG:HG3	1.97	0.46
51:DS:74:ALA:C	51:DS:76:LYS:N	2.69	0.46
51:DS:79:ALA:O	51:DS:80:LEU:HD23	2.16	0.46
52:DT:29:ARG:HB3	52:DT:85:LYS:HA	1.97	0.46
53:DU:86:ALA:HB2	53:DU:116:ALA:HB2	1.97	0.46
57:DY:26:LYS:HG2	57:DY:27:VAL:H	1.82	0.46
57:DY:27:VAL:HG12	57:DY:29:GLU:OE1	2.15	0.46
58:DZ:40:ASP:HB3	58:DZ:43:GLU:HG2	1.98	0.46
1:AA:9:G:H1	1:AA:25:C:N4	2.14	0.45
1:AA:27:G:H2'	1:AA:28:G:C8	2.51	0.45
1:AA:152:A:N6	1:AA:170:U:C2	2.84	0.45
1:AA:175:C:H4'	20:AT:25:ARG:CZ	2.46	0.45
1:AA:308:C:H2'	1:AA:309:G:C8	2.51	0.45
1:AA:359:U:H2'	1:AA:360:A:C8	2.50	0.45
1:AA:584:G:H2'	1:AA:585:G:H8	1.77	0.45
1:AA:922:G:C6	1:AA:923:A:C6	3.04	0.45
1:AA:1006:C:H2'	1:AA:1007:C:C6	2.50	0.45
1:AA:1114:C:H2'	1:AA:1114:C:O2	2.16	0.45
1:AA:1188:A:H2'	1:AA:1189:C:O4'	2.16	0.45
1:AA:1240:U:H3'	1:AA:1241:G:C5'	2.46	0.45
1:AA:1370:G:C2	1:AA:1371:G:N7	2.84	0.45
4:AD:11:LEU:O	4:AD:13:ARG:O	2.34	0.45
7:AG:79:ARG:HG3	7:AG:84:ASN:N	2.31	0.45
10:AJ:18:ALA:O	10:AJ:22:LYS:N	2.49	0.45
10:AJ:21:GLN:C	10:AJ:23:ILE:H	2.19	0.45
20:AT:63:ILE:O	20:AT:66:ALA:HB3	2.16	0.45
22:AW:59:U:H2'	22:AW:59:U:O2	2.16	0.45
25:AZ:27:LEU:HD11	25:AZ:31:LEU:HD21	1.98	0.45
25:AZ:257:GLY:HA3	25:AZ:302:GLN:HA	1.98	0.45
26:B0:81:VAL:O	26:B0:81:VAL:HG12	2.14	0.45
27:B1:41:ARG:NH2	36:BA:1365:A:OP1	2.49	0.45
36:BA:268:C:N4	36:BA:425:G:C6	2.84	0.45
36:BA:325:G:H2'	36:BA:326:G:C8	2.50	0.45
36:BA:332:A:O2'	36:BA:333:G:O5'	2.34	0.45
36:BA:336:C:H4'	57:BY:7:VAL:HG21	1.97	0.45
36:BA:563:G:C4	36:BA:2018:G:C2	3.04	0.45
36:BA:573:G:C5'	36:BA:575:A:N7	2.79	0.45
36:BA:693:C:H2'	36:BA:694:U:C6	2.51	0.45
36:BA:848:G:H2'	36:BA:849:A:C8	2.51	0.45
36:BA:1007:C:O2'	46:BN:108:PRO:HA	2.16	0.45
36:BA:1196:C:O4'	36:BA:1226:A:C2	2.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1555:G:C2	36:BA:1556:C:C5	3.04	0.45
36:BA:1614:A:N6	55:BW:92:ARG:O	2.49	0.45
36:BA:1657:C:H2'	36:BA:1658:C:O4'	2.16	0.45
36:BA:1658:C:OP1	40:BE:132:HIS:CE1	2.69	0.45
36:BA:1787:A:H2'	36:BA:1788:C:C6	2.50	0.45
36:BA:1788:C:H2'	36:BA:1789:A:O4'	2.16	0.45
36:BA:1800:C:P	39:BD:266:SER:HG	2.39	0.45
36:BA:2009:G:O2'	36:BA:2010:G:H5'	2.16	0.45
36:BA:2133:G:N1	36:BA:2157:G:O6	2.49	0.45
36:BA:2373:G:O2'	36:BA:2374:C:H5'	2.16	0.45
36:BA:2439:A:C8	36:BA:2586:C:H4'	2.50	0.45
36:BA:2720:U:H3'	36:BA:2721:A:H8	1.80	0.45
36:BA:2758:A:C2	36:BA:2759:G:N9	2.84	0.45
36:BA:2826:A:C2'	36:BA:2827:C:H5'	2.46	0.45
37:BB:105:A:H3'	37:BB:106:G:C8	2.50	0.45
39:BD:147:LEU:HA	39:BD:147:LEU:HD12	1.66	0.45
39:BD:183:ARG:HG3	39:BD:269:PHE:O	2.15	0.45
39:BD:223:GLY:HA3	39:BD:231:HIS:CD2	2.51	0.45
40:BE:197:ILE:CD1	40:BE:199:ARG:HH22	2.29	0.45
41:BF:32:LEU:HD23	41:BF:32:LEU:C	2.36	0.45
41:BF:122:LYS:HB3	41:BF:191:ARG:HG3	1.98	0.45
41:BF:185:ASP:HA	41:BF:188:ARG:CD	2.46	0.45
42:BG:46:ALA:HB3	42:BG:88:ILE:CG1	2.46	0.45
48:BP:101:VAL:HG22	48:BP:102:ARG:N	2.31	0.45
49:BQ:34:LEU:HD12	49:BQ:130:LYS:C	2.37	0.45
49:BQ:55:VAL:HA	58:BZ:178:GLU:OE2	2.16	0.45
49:BQ:76:LYS:HB2	49:BQ:91:GLU:HG3	1.98	0.45
51:BS:14:VAL:C	51:BS:15:ARG:HG3	2.35	0.45
51:BS:17:ARG:HH21	51:BS:90:GLY:H	1.63	0.45
53:BU:70:ARG:C	53:BU:72:HIS:H	2.18	0.45
57:BY:2:ARG:CD	57:BY:3:VAL:HG23	2.45	0.45
57:BY:50:ARG:O	57:BY:53:PRO:HD3	2.15	0.45
58:BZ:14:LYS:HB2	58:BZ:17:ALA:CB	2.47	0.45
58:BZ:17:ALA:CA	58:BZ:20:ARG:HG2	2.45	0.45
1:CA:189(J):G:O2'	1:CA:189(K):U:H5'	2.15	0.45
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.51	0.45
1:CA:458:C:H2'	1:CA:460:G:C8	2.50	0.45
1:CA:495:A:H1'	1:CA:496:A:C8	2.50	0.45
1:CA:719:C:C5	1:CA:720:C:C4	3.04	0.45
1:CA:738:C:H5''	6:CF:69:GLU:HB2	1.98	0.45
1:CA:1057:G:H2'	1:CA:1058:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1095:U:C5'	1:CA:1109:C:O2	2.64	0.45
3:CC:35:GLU:O	3:CC:37:GLN:N	2.50	0.45
4:CD:26:CYS:HA	4:CD:31:CYS:HA	1.97	0.45
7:CG:23:VAL:CG1	7:CG:43:PHE:CE2	2.99	0.45
12:CL:93:LEU:O	12:CL:94:PRO:O	2.35	0.45
13:CM:35:GLU:CG	13:CM:36:LYS:N	2.79	0.45
13:CM:107:ALA:O	13:CM:109:THR:N	2.49	0.45
15:CO:50:HIS:O	15:CO:53:HIS:CB	2.64	0.45
16:CP:67:THR:H	16:CP:70:ALA:CB	2.16	0.45
19:CS:32:LYS:HA	19:CS:50:ALA:HB3	1.97	0.45
22:CV:32:U:H5'	22:CV:33:U:OP2	2.16	0.45
25:CZ:177:LEU:HD12	25:CZ:177:LEU:N	2.31	0.45
25:CZ:363:MET:O	25:CZ:366:ASP:HB2	2.16	0.45
25:CZ:368:VAL:CG1	25:CZ:369:THR:H	2.12	0.45
28:D2:32:LEU:HD22	28:D2:36:ARG:NH1	2.30	0.45
30:D4:26:SER:HB2	42:DG:105:LYS:HE3	1.97	0.45
36:DA:247:G:H1'	36:DA:251:A:N6	2.31	0.45
36:DA:251:A:H5''	48:DP:51:PHE:HZ	1.81	0.45
36:DA:344:G:H3'	36:DA:344:G:P	2.56	0.45
36:DA:372:G:O2'	36:DA:373:U:P	2.74	0.45
36:DA:494:G:OP1	55:DW:8:ARG:NH1	2.50	0.45
36:DA:873:G:H2'	36:DA:874:G:H8	1.80	0.45
36:DA:876:C:H2'	36:DA:877:U:O4'	2.16	0.45
36:DA:978:G:C2	36:DA:979:G:H1'	2.51	0.45
36:DA:1313:U:H3'	36:DA:1314:C:H5'	1.99	0.45
36:DA:1365:A:C6	36:DA:1366:A:C5	3.04	0.45
36:DA:1680:U:O2	36:DA:1763:G:H3'	2.16	0.45
36:DA:1865:G:H5'	36:DA:1866:C:OP2	2.15	0.45
36:DA:2015:A:C2'	36:DA:2016:U:H5'	2.47	0.45
36:DA:2020:A:HO2'	36:DA:2021:C:H5'	1.80	0.45
36:DA:2026:C:H2'	36:DA:2026:C:O2	2.15	0.45
36:DA:2071:A:C2	36:DA:2441:C:N3	2.83	0.45
36:DA:2243:U:H2'	36:DA:2244:U:H6	1.73	0.45
36:DA:2358:G:H2'	36:DA:2359:C:O4'	2.15	0.45
36:DA:2454:G:O2'	36:DA:2455:G:C5'	2.64	0.45
36:DA:2682:U:O2'	52:DT:58:ASN:OD1	2.34	0.45
36:DA:2720:U:C2	36:DA:2721:A:C8	3.05	0.45
36:DA:2776:A:H4'	36:DA:2778:A:C5'	2.46	0.45
38:DC:23:ASP:O	38:DC:24:GLU:C	2.53	0.45
38:DC:47:LEU:HD11	38:DC:171:ILE:CG2	2.46	0.45
38:DC:79:LYS:HB3	38:DC:147:PHE:HE1	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:91:ALA:HB3	38:DC:94:VAL:CG2	2.46	0.45
39:DD:249:PRO:CD	39:DD:250:TRP:H	2.30	0.45
40:DE:98:PRO:HG3	40:DE:175:VAL:HG12	1.98	0.45
42:DG:6:ALA:O	42:DG:7:LEU:C	2.55	0.45
43:DH:152:ARG:HG3	43:DH:152:ARG:NH1	2.30	0.45
48:DP:114:ILE:CG2	48:DP:130:PHE:HA	2.47	0.45
49:DQ:48:GLU:O	49:DQ:50:ALA:N	2.49	0.45
50:DR:67:LEU:CD2	50:DR:76:VAL:HG21	2.46	0.45
52:DT:101:PHE:C	52:DT:103:ARG:N	2.69	0.45
54:DV:96:ILE:HD13	54:DV:96:ILE:N	2.30	0.45
58:DZ:101:PRO:C	58:DZ:102:LEU:HD23	2.36	0.45
58:DZ:158:PRO:HD2	58:DZ:161:VAL:HB	1.97	0.45
1:AA:113:G:C2	1:AA:315:A:C2	3.03	0.45
1:AA:181:G:H4'	1:AA:182:U:O5'	2.16	0.45
1:AA:677:U:H2'	1:AA:678:U:C6	2.51	0.45
1:AA:695:A:H2'	1:AA:696:A:O4'	2.16	0.45
1:AA:734:G:O5'	1:AA:734:G:H8	1.99	0.45
1:AA:967:C:H4'	9:AI:125:TYR:CE2	2.51	0.45
1:AA:1145:C:O2'	1:AA:1146:A:O5'	2.34	0.45
1:AA:1287:A:H2'	1:AA:1288:A:H8	1.81	0.45
1:AA:1327:C:OP1	21:AU:20:LYS:N	2.39	0.45
1:AA:1398:A:H61	5:AE:21:ALA:HA	1.81	0.45
1:AA:1431:C:H2'	1:AA:1432:G:C5'	2.46	0.45
1:AA:1523:G:C6	1:AA:1524:C:N4	2.85	0.45
2:AB:36:ARG:N	2:AB:41:ILE:HD13	2.23	0.45
2:AB:111:ARG:O	2:AB:115:LEU:N	2.47	0.45
2:AB:201:ILE:HG22	2:AB:201:ILE:O	2.16	0.45
3:AC:131:ARG:NH2	3:AC:167:TRP:O	2.48	0.45
4:AD:20:TYR:CD1	4:AD:20:TYR:N	2.84	0.45
4:AD:145:GLU:CG	4:AD:184:LYS:HG2	2.45	0.45
4:AD:158:ILE:O	4:AD:162:LEU:HB2	2.16	0.45
5:AE:98:THR:HG22	5:AE:99:GLY:N	2.31	0.45
8:AH:36:LEU:C	8:AH:38:ILE:N	2.70	0.45
8:AH:138:TRP:OXT	8:AH:138:TRP:HE3	1.99	0.45
13:AM:66:LEU:O	13:AM:70:LEU:CB	2.65	0.45
13:AM:86:CYS:O	13:AM:87:TYR:C	2.50	0.45
15:AO:75:PRO:O	15:AO:79:ARG:HG3	2.17	0.45
16:AP:6:LEU:HB3	16:AP:17:TYR:HB3	1.98	0.45
20:AT:23:ARG:HG2	20:AT:23:ARG:NH1	2.31	0.45
21:AU:5:ASP:HB3	21:AU:8:THR:HG23	1.97	0.45
25:AZ:26:THR:O	25:AZ:29:ALA:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:114:PRO:HG2	36:BA:2660:A:H4'	1.98	0.45
25:AZ:177:LEU:HD12	25:AZ:177:LEU:N	2.31	0.45
25:AZ:234:ARG:HE	25:AZ:289:LEU:HD22	1.79	0.45
26:B0:43:THR:HG21	36:BA:2332:U:H5'	1.99	0.45
28:B2:32:LEU:HA	28:B2:53:LEU:CD1	2.42	0.45
31:B5:4:HIS:O	36:BA:2056:G:N1	2.48	0.45
31:B5:16:ARG:NH1	31:B5:16:ARG:HG2	2.31	0.45
32:B6:10:LEU:H	32:B6:10:LEU:CD2	2.27	0.45
34:B8:43:GLN:C	34:B8:44:LYS:HD2	2.36	0.45
35:B9:26:ILE:CG2	35:B9:27:CYS:N	2.80	0.45
36:BA:319:C:H2'	36:BA:320:A:O4'	2.16	0.45
36:BA:372:G:H1'	36:BA:373:U:H5	1.81	0.45
36:BA:384:U:H2'	36:BA:385:C:C6	2.49	0.45
36:BA:497:A:C6	36:BA:498:G:C6	3.05	0.45
36:BA:539:G:H2'	36:BA:540:C:H6	1.81	0.45
36:BA:761:A:H8	36:BA:761:A:P	2.38	0.45
36:BA:940:G:H3'	36:BA:941:A:H5''	1.99	0.45
36:BA:1186:G:O2'	36:BA:1187:G:H5'	2.17	0.45
36:BA:1222:C:OP2	54:BV:88:ARG:NH2	2.50	0.45
36:BA:1344:G:N2	36:BA:1404:C:H1'	2.30	0.45
36:BA:1491:G:O2'	36:BA:1492:G:H5'	2.15	0.45
36:BA:1572:A:O2'	36:BA:1573:G:H5'	2.16	0.45
36:BA:1591:G:H2'	36:BA:1592:C:H5'	1.98	0.45
36:BA:1600:C:OP1	56:BX:58:HIS:NE2	2.49	0.45
36:BA:1652:A:O2'	36:BA:1653:G:H5'	2.16	0.45
36:BA:1705:G:C2'	36:BA:1706:U:H5'	2.46	0.45
36:BA:1713:U:O2'	36:BA:1714:G:H5'	2.16	0.45
36:BA:1961:C:H2'	36:BA:1962:C:O4'	2.16	0.45
36:BA:2307:G:H21	36:BA:2308:G:C5'	2.28	0.45
36:BA:2450:A:C2	36:BA:2451:A:C4	3.03	0.45
36:BA:2601:C:H2'	36:BA:2603:G:C8	2.50	0.45
36:BA:2688:U:O2	36:BA:2719:G:C2	2.69	0.45
37:BB:44:G:H1'	37:BB:47:C:N4	2.31	0.45
39:BD:214:TRP:C	39:BD:216:GLY:N	2.64	0.45
39:BD:232:PRO:CD	39:BD:249:PRO:HA	2.35	0.45
39:BD:249:PRO:CD	39:BD:250:TRP:H	2.29	0.45
40:BE:198:VAL:O	40:BE:199:ARG:HB2	2.15	0.45
41:BF:9:ILE:HA	41:BF:13:SER:O	2.16	0.45
41:BF:31:HIS:O	41:BF:34:TRP:N	2.49	0.45
41:BF:182:ASN:ND2	41:BF:185:ASP:OD2	2.49	0.45
42:BG:41:GLN:HB3	42:BG:43:LEU:CD2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:134:ARG:HH21	46:BN:136:GLU:HB2	1.80	0.45
46:BN:134:ARG:O	46:BN:136:GLU:N	2.48	0.45
48:BP:107:LYS:C	48:BP:109:GLY:N	2.68	0.45
49:BQ:27:VAL:N	49:BQ:137:TYR:HD1	2.14	0.45
50:BR:2:ARG:HG3	50:BR:2:ARG:NH1	2.30	0.45
50:BR:6:SER:OG	50:BR:8:ARG:NH2	2.50	0.45
1:CA:226:G:HO2'	1:CA:227:G:H5'	1.77	0.45
1:CA:375:U:H4'	16:CP:17:TYR:HE2	1.81	0.45
1:CA:495:A:H61	4:CD:119:GLN:NE2	2.13	0.45
1:CA:864:A:N7	1:CA:865:A:C6	2.83	0.45
1:CA:994:A:C2	1:CA:995:C:C5	3.05	0.45
1:CA:1055:A:N3	1:CA:1055:A:H2'	2.30	0.45
1:CA:1254:C:H2'	1:CA:1255:G:C8	2.51	0.45
1:CA:1269:A:H2'	1:CA:1270:C:C5'	2.47	0.45
1:CA:1463:C:H5'	52:DT:115:ARG:NH2	2.31	0.45
2:CB:165:VAL:O	2:CB:167:PRO:CD	2.65	0.45
4:CD:52:SER:C	4:CD:54:TYR:N	2.67	0.45
8:CH:17:THR:HB	8:CH:78:GLN:HE22	1.81	0.45
10:CJ:65:LEU:CD1	14:CN:56:VAL:N	2.69	0.45
12:CL:60:LEU:C	12:CL:62:SER:H	2.18	0.45
13:CM:49:THR:HG22	13:CM:51:ALA:N	2.22	0.45
14:CN:42:ILE:HG22	14:CN:43:CYS:H	1.80	0.45
17:CQ:99:SER:O	17:CQ:100:LYS:CG	2.63	0.45
18:CR:35:ARG:O	18:CR:37:VAL:N	2.48	0.45
19:CS:51:VAL:CG2	19:CS:71:LEU:HB3	2.47	0.45
23:CX:22:A:C5	23:CX:23:C:C5	3.04	0.45
24:CY:69:C:H2'	24:CY:70:A:C8	2.50	0.45
25:CZ:361:MET:O	25:CZ:361:MET:HG3	2.17	0.45
25:CZ:362:VAL:HG11	25:CZ:368:VAL:HG21	1.98	0.45
25:CZ:390:GLU:HB3	25:CZ:395:VAL:HG11	1.98	0.45
28:D2:34:GLU:O	28:D2:37:PHE:HD1	1.99	0.45
29:D3:15:TYR:HD2	29:D3:19:GLN:NE2	2.01	0.45
30:D4:13:ARG:HG3	30:D4:13:ARG:O	2.16	0.45
34:D8:62:LEU:N	34:D8:63:PRO:HD2	2.31	0.45
36:DA:139:G:H3'	36:DA:139(A):G:H5''	1.98	0.45
36:DA:372:G:H1'	36:DA:373:U:H5	1.81	0.45
36:DA:466:A:C2'	36:DA:467:G:H5'	2.47	0.45
36:DA:654(L):G:H2'	36:DA:654(M):C:H4'	1.98	0.45
36:DA:782:A:N1	39:DD:226:MET:HE2	2.31	0.45
36:DA:1567:A:H2'	39:DD:84:TYR:HE2	1.81	0.45
36:DA:2028:U:O4	36:DA:2033:A:OP1	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2105:C:H2'	36:DA:2106:G:H8	1.81	0.45
36:DA:2592:G:N7	36:DA:2593:U:C5	2.84	0.45
36:DA:2842:G:H1	36:DA:2875:C:H42	1.64	0.45
38:DC:106:GLY:O	38:DC:107:TRP:HB2	2.15	0.45
39:DD:270:ILE:C	39:DD:271:ILE:HG13	2.36	0.45
40:DE:4:ILE:HD12	40:DE:92:THR:O	2.15	0.45
41:DF:40:GLN:NE2	41:DF:184:TYR:HB3	2.30	0.45
41:DF:62:ARG:HG2	41:DF:62:ARG:NH1	2.31	0.45
42:DG:170:ARG:NH2	42:DG:180:PHE:CD1	2.85	0.45
48:DP:83:VAL:O	48:DP:115:LEU:HD23	2.16	0.45
49:DQ:27:VAL:N	49:DQ:137:TYR:HD1	2.14	0.45
49:DQ:44:ALA:N	49:DQ:45:GLN:HE21	2.14	0.45
54:DV:18:LEU:O	54:DV:19:LYS:HB3	2.17	0.45
54:DV:39:LEU:N	54:DV:39:LEU:CD2	2.75	0.45
58:DZ:52:SER:O	58:DZ:53:ILE:CG2	2.59	0.45
1:AA:262:A:N1	1:AA:263:A:C2	2.84	0.45
1:AA:319:G:C2'	1:AA:320:C:H5'	2.46	0.45
1:AA:352:C:H2'	1:AA:352:C:O2	2.17	0.45
1:AA:367:U:H4'	25:AZ:291:ARG:HH11	1.81	0.45
1:AA:429:U:H1'	1:AA:430:A:H5''	1.98	0.45
1:AA:622:A:C8	1:AA:623:C:C6	3.04	0.45
1:AA:662:G:H2'	1:AA:663:A:C8	2.44	0.45
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.98	0.45
1:AA:782:A:C2'	1:AA:783:C:H5'	2.46	0.45
1:AA:811:C:H4'	1:AA:900:A:H61	1.75	0.45
1:AA:865:A:C2	1:AA:918:A:H4'	2.51	0.45
1:AA:963:G:N2	10:AJ:55:LYS:HD3	2.27	0.45
1:AA:1054:C:OP1	1:AA:1198:G:OP2	2.35	0.45
1:AA:1175:G:C6	1:AA:1176:A:C6	3.04	0.45
1:AA:1313:U:P	19:AS:6:LYS:HB2	2.56	0.45
1:AA:1419:G:H2'	1:AA:1419:G:N3	2.31	0.45
2:AB:51:LEU:O	2:AB:52:GLU:C	2.55	0.45
3:AC:125:GLU:OE2	3:AC:190:ARG:N	2.49	0.45
4:AD:104:VAL:O	4:AD:105:VAL:C	2.55	0.45
5:AE:107:ARG:HG3	5:AE:111:GLU:CD	2.37	0.45
7:AG:25:ALA:HA	7:AG:28:ASN:ND2	2.31	0.45
7:AG:31:MET:SD	7:AG:36:LYS:N	2.89	0.45
7:AG:106:GLN:O	7:AG:109:ASN:N	2.49	0.45
9:AI:118:LYS:C	9:AI:120:ARG:H	2.20	0.45
10:AJ:62:HIS:H	10:AJ:62:HIS:CD2	2.35	0.45
13:AM:14:ARG:H	13:AM:44:ARG:NH1	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:82:ILE:O	15:AO:86:GLY:N	2.46	0.45
16:AP:45:THR:O	16:AP:47:ASP:N	2.48	0.45
16:AP:58:TYR:O	16:AP:62:VAL:HG22	2.15	0.45
17:AQ:24:GLU:HA	17:AQ:39:SER:HA	1.98	0.45
19:AS:51:VAL:CG2	19:AS:71:LEU:HB3	2.47	0.45
24:AY:5:A:H2'	24:AY:6:U:C6	2.50	0.45
24:AY:50:G:N2	24:AY:65:C:H1'	2.31	0.45
25:AZ:163:PHE:CD1	25:AZ:164:PRO:HD2	2.51	0.45
25:AZ:195:TRP:HA	25:AZ:198:LYS:HB2	1.98	0.45
26:B0:41:ARG:HD2	26:B0:41:ARG:HA	1.77	0.45
28:B2:33:MET:HG3	28:B2:37:PHE:CE1	2.51	0.45
28:B2:38:GLN:OE1	28:B2:44:LEU:HD21	2.17	0.45
34:B8:8:LYS:HA	34:B8:11:LYS:CB	2.45	0.45
36:BA:70:G:H2'	36:BA:113:G:O2'	2.16	0.45
36:BA:297:C:H2'	36:BA:298:G:O4'	2.15	0.45
36:BA:377:C:O2	36:BA:398:G:C2	2.69	0.45
36:BA:673:C:HO2'	36:BA:674:G:H5'	1.80	0.45
36:BA:722:A:N3	36:BA:722:A:H2'	2.32	0.45
36:BA:732:C:H2'	36:BA:733:G:C8	2.52	0.45
36:BA:978:G:N2	36:BA:979:G:H1'	2.30	0.45
36:BA:1154:G:H5''	53:BU:59:ARG:HH22	1.81	0.45
36:BA:1264:G:O3'	36:BA:2615:U:H5'	2.16	0.45
36:BA:1392:A:N7	36:BA:1393:A:C5	2.84	0.45
36:BA:1450(A):C:O2	36:BA:1450(A):C:H2'	2.17	0.45
36:BA:1567:A:H2'	39:BD:84:TYR:HE2	1.82	0.45
36:BA:1569:A:H4'	39:BD:61:LEU:HD21	1.98	0.45
36:BA:1579:A:H2'	36:BA:1580:A:C8	2.51	0.45
36:BA:1591:G:C2'	36:BA:1592:C:H5'	2.46	0.45
36:BA:1798:U:C5'	39:BD:259:THR:HB	2.46	0.45
36:BA:2275:C:OP1	36:BA:2275:C:H2'	2.15	0.45
36:BA:2672:G:C3'	36:BA:2673:G:H5''	2.47	0.45
36:BA:2761:G:C3'	36:BA:2762:G:H5''	2.44	0.45
36:BA:2851:A:H2'	36:BA:2852:G:H5'	1.99	0.45
39:BD:131:LEU:CB	39:BD:132:PRO:CD	2.94	0.45
39:BD:266:SER:O	39:BD:267:SER:O	2.34	0.45
41:BF:150:GLY:HA2	41:BF:172:TRP:CE2	2.51	0.45
41:BF:155:LEU:HG	41:BF:155:LEU:O	2.16	0.45
42:BG:54:GLU:O	42:BG:57:ALA:N	2.48	0.45
43:BH:117:PRO:HB3	43:BH:123:PHE:CE1	2.51	0.45
46:BN:111:PRO:HA	46:BN:114:ARG:CZ	2.46	0.45
48:BP:105:LEU:H	48:BP:105:LEU:CD1	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:51:ARG:HG3	49:BQ:51:ARG:HH11	1.82	0.45
52:BT:28:VAL:HG13	52:BT:45:PHE:C	2.36	0.45
53:BU:12:ARG:O	53:BU:16:LYS:HD2	2.16	0.45
53:BU:68:ALA:HB1	53:BU:106:PHE:HE2	1.80	0.45
54:BV:91:TYR:CD1	54:BV:92:THR:N	2.84	0.45
54:BV:91:TYR:HD1	54:BV:92:THR:N	2.14	0.45
55:BW:6:ILE:CG2	55:BW:7:ALA:N	2.79	0.45
58:BZ:10:ARG:CG	58:BZ:12:GLY:H	2.29	0.45
58:BZ:39:VAL:O	58:BZ:39:VAL:HG23	2.16	0.45
1:CA:80:G:N2	1:CA:90:U:H5'	2.30	0.45
1:CA:182:U:OP2	1:CA:183:G:OP2	2.33	0.45
1:CA:534:U:H5'	1:CA:534:U:H6	1.82	0.45
1:CA:584:G:OP2	17:CQ:87:LYS:NZ	2.48	0.45
1:CA:602:A:H2'	1:CA:603:U:H6	1.81	0.45
1:CA:630:G:C2'	1:CA:631:G:H5'	2.46	0.45
1:CA:784:C:H2'	1:CA:785:G:C8	2.51	0.45
1:CA:813:U:O2'	1:CA:814:A:H5'	2.16	0.45
1:CA:1032:G:N2	1:CA:1033:G:O6	2.49	0.45
1:CA:1093:A:N3	1:CA:1095:U:H5'	2.31	0.45
1:CA:1096:C:O2'	1:CA:1097:C:H5'	2.17	0.45
1:CA:1132:C:O2'	1:CA:1133:G:H5'	2.16	0.45
1:CA:1157:A:H1'	1:CA:1181:G:H21	1.80	0.45
1:CA:1368:G:OP2	9:CI:112:LYS:HD2	2.16	0.45
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.16	0.45
2:CB:8:LYS:NZ	2:CB:217:ARG:CZ	2.78	0.45
2:CB:157:ARG:CZ	2:CB:157:ARG:HB3	2.47	0.45
3:CC:139:GLN:OE1	3:CC:139:GLN:HA	2.16	0.45
4:CD:159:ARG:O	4:CD:162:LEU:N	2.49	0.45
5:CE:7:GLU:CB	5:CE:112:LEU:HD21	2.46	0.45
5:CE:75:THR:OG1	5:CE:76:ILE:N	2.49	0.45
8:CH:54:ASP:O	8:CH:56:LYS:HG3	2.16	0.45
14:CN:55:GLY:O	14:CN:56:VAL:C	2.55	0.45
16:CP:13:HIS:O	16:CP:15:PRO:HD3	2.15	0.45
18:CR:52:PRO:O	18:CR:53:ARG:C	2.52	0.45
18:CR:53:ARG:N	18:CR:63:GLN:NE2	2.64	0.45
19:CS:36:ARG:HH22	19:CS:75:ALA:HB3	1.80	0.45
25:CZ:35:ALA:HB3	25:CZ:70:TYR:HB2	1.99	0.45
25:CZ:99:MET:HG3	25:CZ:128:VAL:HG22	1.97	0.45
25:CZ:246:LYS:HD3	25:CZ:281:ILE:HG22	1.96	0.45
25:CZ:309:SER:O	25:CZ:310:ILE:HB	2.16	0.45
26:D0:78:TYR:CD1	26:D0:78:TYR:N	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:71:TYR:O	27:D1:73:LEU:N	2.49	0.45
36:DA:347:A:H2'	36:DA:348:G:H8	1.81	0.45
36:DA:363(A):A:N3	36:DA:363(A):A:H2'	2.32	0.45
36:DA:598:G:H5'	48:DP:15:ARG:CB	2.45	0.45
36:DA:742:G:H2'	36:DA:743:G:C8	2.52	0.45
36:DA:1376:C:H2'	36:DA:1377:G:C5'	2.47	0.45
36:DA:1403:C:C2'	36:DA:1404:C:O5'	2.63	0.45
36:DA:1773:A:C2'	36:DA:1774:C:H5'	2.47	0.45
36:DA:1889:A:N1	36:DA:2234:G:H1'	2.31	0.45
36:DA:2123:G:O4'	38:DC:172:HIS:HB2	2.16	0.45
36:DA:2808:U:O4	36:DA:2892:A:C8	2.70	0.45
36:DA:2870:C:O2'	36:DA:2871:C:H5'	2.15	0.45
37:DB:81:G:C2	37:DB:82:G:N7	2.84	0.45
38:DC:117:PRO:HD3	38:DC:146:GLY:H	1.80	0.45
39:DD:37:LEU:O	39:DD:38:LYS:C	2.55	0.45
41:DF:46:ARG:NH1	41:DF:46:ARG:CG	2.73	0.45
41:DF:174:VAL:HG21	41:DF:189:THR:CG2	2.47	0.45
42:DG:42:GLY:CA	42:DG:90:LEU:H	2.28	0.45
42:DG:59:GLU:HG3	42:DG:60:LEU:N	2.31	0.45
43:DH:89:ILE:O	43:DH:129:THR:HB	2.16	0.45
46:DN:7:LYS:O	46:DN:9:VAL:N	2.50	0.45
47:DO:8:LEU:N	47:DO:8:LEU:HD13	2.31	0.45
48:DP:16:ARG:HG3	48:DP:17:LYS:H	1.81	0.45
48:DP:71:VAL:HG13	48:DP:72:PRO:CD	2.46	0.45
48:DP:79:ARG:HH22	48:DP:81:GLN:HE21	1.63	0.45
49:DQ:45:GLN:HE21	49:DQ:45:GLN:N	2.12	0.45
50:DR:13:HIS:CE1	50:DR:16:HIS:HB3	2.52	0.45
51:DS:29:PHE:HD2	51:DS:29:PHE:C	2.20	0.45
51:DS:77:ALA:O	51:DS:80:LEU:N	2.47	0.45
53:DU:14:HIS:C	53:DU:16:LYS:H	2.20	0.45
54:DV:4:ILE:O	54:DV:39:LEU:HD22	2.16	0.45
54:DV:32:THR:HG22	54:DV:33:VAL:N	2.31	0.45
54:DV:47:VAL:O	54:DV:49:THR:O	2.34	0.45
54:DV:49:THR:CB	54:DV:50:PRO:HD2	2.45	0.45
55:DW:2:GLU:N	55:DW:64:MET:HE3	2.31	0.45
55:DW:50:VAL:HG22	55:DW:105:VAL:CG2	2.46	0.45
58:DZ:150:LEU:N	58:DZ:150:LEU:HD23	2.31	0.45
1:AA:414:A:C2	1:AA:415:A:H1'	2.52	0.45
1:AA:493:G:H8	1:AA:493:G:O5'	1.98	0.45
1:AA:823:G:N3	8:AH:1:MET:HE1	2.32	0.45
1:AA:1015:A:H2'	1:AA:1016:A:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1325:C:H5'	21:AU:15:ARG:NE	2.31	0.45
1:AA:1435:G:C6	1:AA:1436:U:O4	2.70	0.45
2:AB:22:LYS:HE3	2:AB:40:HIS:CE1	2.52	0.45
2:AB:28:PHE:O	2:AB:28:PHE:CD1	2.69	0.45
2:AB:223:ILE:O	2:AB:226:ARG:N	2.49	0.45
5:AE:102:ALA:HA	5:AE:120:THR:CG2	2.46	0.45
9:AI:97:LYS:N	9:AI:98:PRO:CD	2.79	0.45
13:AM:84:ILE:HB	19:AS:74:PHE:HD1	1.81	0.45
20:AT:93:GLU:C	20:AT:95:ALA:H	2.18	0.45
22:AW:45:U:H6	22:AW:45:U:H3'	1.82	0.45
24:AY:56:C:O4'	36:BA:1067:A:H1'	2.17	0.45
25:AZ:189:ARG:NE	25:AZ:190:ARG:HG2	2.31	0.45
25:AZ:200:TRP:O	25:AZ:204:ASP:N	2.50	0.45
25:AZ:202:LEU:C	25:AZ:204:ASP:H	2.19	0.45
28:B2:35:LEU:HD21	28:B2:50:ILE:CD1	2.46	0.45
28:B2:38:GLN:HB3	28:B2:44:LEU:CG	2.45	0.45
28:B2:59:ARG:CB	36:BA:76:C:O2'	2.65	0.45
34:B8:54:GLU:O	34:B8:58:ILE:HG12	2.16	0.45
36:BA:71:A:C5	36:BA:73:A:N1	2.85	0.45
36:BA:123:G:C6	36:BA:124:G:C5	3.04	0.45
36:BA:363:G:C2	36:BA:363(A):A:C8	3.04	0.45
36:BA:445:C:H5''	53:BU:3:ARG:HB2	1.98	0.45
36:BA:727:A:H2'	36:BA:728:G:C8	2.51	0.45
36:BA:729:G:C8	39:BD:208:LYS:HD2	2.52	0.45
36:BA:882:G:N2	36:BA:895:U:C2	2.84	0.45
36:BA:968:G:C6	36:BA:969:U:C4	3.04	0.45
36:BA:1216:G:N2	36:BA:1217:C:H1'	2.32	0.45
36:BA:1334:G:H2'	36:BA:1335:U:H6	1.82	0.45
36:BA:1362:C:H2'	36:BA:1363:C:H5'	1.97	0.45
36:BA:1380:G:C4	36:BA:1381:G:N7	2.84	0.45
36:BA:1541:G:C1'	36:BA:1542:A:C4	2.94	0.45
36:BA:1548:C:H2'	36:BA:1549:C:C6	2.51	0.45
36:BA:2133:G:H8	36:BA:2133:G:H3'	1.81	0.45
36:BA:2414:G:H21	48:BP:67:MET:HE1	1.82	0.45
36:BA:2661:G:O2'	36:BA:2662:A:H5'	2.17	0.45
36:BA:2756:U:C1'	36:BA:2757:A:H5''	2.44	0.45
36:BA:2786:U:C4	36:BA:2787:C:C5	3.04	0.45
37:BB:42:C:N4	42:BG:91:ARG:NH2	2.65	0.45
38:BC:103:ILE:HG23	38:BC:107:TRP:CG	2.52	0.45
39:BD:261:LYS:NZ	39:BD:263:ARG:NH1	2.65	0.45
40:BE:62:PRO:C	40:BE:64:LYS:N	2.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:98:PRO:HG3	40:BE:175:VAL:HG12	1.97	0.45
40:BE:107:THR:C	40:BE:190:GLY:HA2	2.35	0.45
41:BF:115:ALA:O	41:BF:118:ALA:N	2.48	0.45
42:BG:44:GLY:C	42:BG:46:ALA:N	2.70	0.45
42:BG:121:ASN:OD1	42:BG:123:ASN:N	2.50	0.45
43:BH:46:GLU:HB3	43:BH:50:VAL:CG1	2.47	0.45
43:BH:65:HIS:O	43:BH:67:LEU:N	2.49	0.45
43:BH:68:THR:C	43:BH:70:THR:N	2.69	0.45
43:BH:92:ILE:C	43:BH:94:TYR:N	2.59	0.45
46:BN:7:LYS:O	46:BN:9:VAL:N	2.50	0.45
46:BN:12:ARG:HG2	46:BN:50:ASP:OD2	2.16	0.45
46:BN:14:VAL:HG12	46:BN:15:LEU:N	2.32	0.45
46:BN:96:GLU:HG2	46:BN:100:GLU:OE2	2.16	0.45
46:BN:114:ARG:O	46:BN:117:PHE:HB3	2.16	0.45
48:BP:83:VAL:HG12	48:BP:113:LYS:O	2.17	0.45
49:BQ:90:VAL:HG12	49:BQ:91:GLU:N	2.32	0.45
50:BR:75:LEU:HD22	50:BR:75:LEU:HA	1.79	0.45
50:BR:85:PRO:O	50:BR:87:TYR:N	2.50	0.45
52:BT:92:GLY:HA3	52:BT:120:ARG:NH2	2.31	0.45
54:BV:75:PHE:HB2	54:BV:82:ARG:HG3	1.98	0.45
55:BW:2:GLU:N	55:BW:64:MET:HE3	2.31	0.45
55:BW:62:HIS:O	55:BW:63:ASP:C	2.54	0.45
56:BX:49:VAL:CB	56:BX:87:GLN:NE2	2.79	0.45
57:BY:27:VAL:HG12	57:BY:28:LYS:N	2.32	0.45
57:BY:77:PRO:HB2	57:BY:99:CYS:HG	1.75	0.45
58:BZ:127:LYS:HD2	58:BZ:162:GLU:OE2	2.16	0.45
1:CA:511:C:N4	1:CA:541:G:C2	2.85	0.45
1:CA:517:G:H5'	1:CA:519:C:C2	2.51	0.45
1:CA:600:C:OP1	8:CH:97:VAL:HG12	2.15	0.45
1:CA:657:G:H1	1:CA:749:C:N4	2.14	0.45
1:CA:828:A:N6	1:CA:858:G:O2'	2.49	0.45
1:CA:863:U:H2'	1:CA:864:A:C5'	2.47	0.45
1:CA:934:C:C5	1:CA:1344:C:C4	3.05	0.45
1:CA:1173:G:H2'	1:CA:1174:G:C8	2.51	0.45
1:CA:1313:U:P	19:CS:6:LYS:HB2	2.57	0.45
1:CA:1381:U:C5	1:CA:1382:C:C4	3.04	0.45
1:CA:1445:C:O2'	1:CA:1446:U:H5'	2.16	0.45
2:CB:170:GLU:O	2:CB:173:ALA:HB3	2.17	0.45
2:CB:178:ARG:NH1	8:CH:74:PRO:HD3	2.32	0.45
3:CC:29:TYR:HE1	10:CJ:65:LEU:HD21	1.82	0.45
3:CC:32:LEU:HD22	3:CC:59:ARG:NH2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.47	0.45
7:CG:91:VAL:HG22	7:CG:95:ARG:HD3	1.99	0.45
7:CG:94:ARG:O	7:CG:95:ARG:C	2.54	0.45
7:CG:116:ALA:HA	7:CG:119:ARG:NH1	2.32	0.45
9:CI:5:TYR:CD1	9:CI:6:GLY:N	2.83	0.45
10:CJ:21:GLN:C	10:CJ:23:ILE:H	2.19	0.45
12:CL:27:LEU:O	12:CL:29:GLY:N	2.49	0.45
13:CM:68:GLY:C	13:CM:70:LEU:N	2.61	0.45
14:CN:9:LYS:HA	14:CN:12:ARG:NH2	2.32	0.45
17:CQ:53:LEU:C	17:CQ:53:LEU:HD23	2.36	0.45
18:CR:32:ARG:HA	18:CR:69:THR:HG21	1.98	0.45
22:CV:9:A:O2'	22:CV:10:G:N7	2.49	0.45
22:CW:59:U:H2'	22:CW:59:U:O2	2.16	0.45
24:CY:60:U:C5'	24:CY:61:C:H5	2.30	0.45
24:CY:70:A:C2	24:CY:71:G:C8	3.05	0.45
25:CZ:263:ARG:HE	25:CZ:297:GLU:HB3	1.81	0.45
26:D0:39:ARG:HH21	36:DA:2354:G:H22	1.64	0.45
27:D1:79:GLY:HA2	36:DA:271(H):G:H21	1.81	0.45
33:D7:11:LYS:HE3	33:D7:15:THR:HG21	1.98	0.45
36:DA:45:C:OP2	36:DA:215:G:H2'	2.16	0.45
36:DA:84:A:C5'	57:DY:9:LYS:HD2	2.35	0.45
36:DA:251:A:H2'	36:DA:252:G:C5'	2.46	0.45
36:DA:319:C:H2'	36:DA:320:A:O4'	2.16	0.45
36:DA:491:G:H2'	36:DA:492:A:O4'	2.17	0.45
36:DA:598:G:C5'	48:DP:15:ARG:HD3	2.35	0.45
36:DA:642:G:H8	36:DA:642:G:O5'	1.98	0.45
36:DA:685:A:N1	36:DA:787:U:H1'	2.31	0.45
36:DA:976:C:H2'	36:DA:977:G:C8	2.51	0.45
36:DA:1053:C:C5	36:DA:1054:A:N7	2.84	0.45
36:DA:1520:G:H2'	36:DA:1523:U:C5'	2.46	0.45
36:DA:1613:G:C3'	36:DA:1614:A:H5''	2.46	0.45
36:DA:1628:G:O2'	36:DA:1629:U:H5'	2.17	0.45
36:DA:1857:G:O2'	36:DA:1885:A:N6	2.50	0.45
36:DA:2028:U:C2'	36:DA:2029:G:O4'	2.63	0.45
36:DA:2115:G:C2	36:DA:2117:A:C8	3.04	0.45
36:DA:2400:G:H2'	36:DA:2401:U:H5'	1.99	0.45
36:DA:2761:G:C3'	36:DA:2762:G:H5''	2.45	0.45
36:DA:2853:C:H2'	36:DA:2854:G:H8	1.80	0.45
37:DB:106:G:H5''	58:DZ:31:ARG:HB3	1.99	0.45
38:DC:75:LEU:HD12	38:DC:75:LEU:C	2.37	0.45
38:DC:100:ILE:HG21	38:DC:126:LYS:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:130:ILE:C	38:DC:132:GLY:H	2.17	0.45
39:DD:161:THR:N	39:DD:196:VAL:HB	2.31	0.45
40:DE:108:SER:O	40:DE:162:ALA:CA	2.65	0.45
42:DG:104:GLU:C	42:DG:106:LEU:N	2.69	0.45
43:DH:67:LEU:CG	43:DH:71:LEU:HD11	2.37	0.45
46:DN:24:GLY:C	46:DN:26:LEU:H	2.15	0.45
46:DN:96:GLU:CD	46:DN:96:GLU:H	2.19	0.45
47:DO:25:LEU:HD11	47:DO:40:VAL:CG2	2.47	0.45
48:DP:121:LYS:O	48:DP:123:LEU:N	2.38	0.45
49:DQ:77:LYS:HD3	49:DQ:81:VAL:HG11	1.98	0.45
51:DS:42:ASP:O	51:DS:44:LYS:N	2.39	0.45
53:DU:52:ARG:CZ	53:DU:55:ARG:NH2	2.75	0.45
56:DX:57:LEU:N	56:DX:57:LEU:CD1	2.79	0.45
58:DZ:44:PHE:CE1	58:DZ:48:PHE:CG	3.05	0.45
1:AA:59:A:N6	1:AA:331:G:H1'	2.32	0.45
1:AA:132:C:N3	1:AA:231:G:C2	2.85	0.45
1:AA:443:C:H2'	1:AA:444:C:H6	1.80	0.45
1:AA:774:G:O2'	1:AA:775:G:H5'	2.17	0.45
1:AA:995:C:N4	1:AA:1046:A:H2'	2.31	0.45
1:AA:998:G:C2	1:AA:1044:A:N1	2.85	0.45
1:AA:1053:G:O6	1:AA:1199:U:H2'	2.16	0.45
1:AA:1176:A:H2'	1:AA:1177:G:C8	2.51	0.45
1:AA:1246:C:O2'	1:AA:1247:U:H5'	2.17	0.45
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.16	0.45
1:AA:1418:A:C8	1:AA:1419:G:H1'	2.52	0.45
1:AA:1436:U:H3	1:AA:1465:C:N4	2.10	0.45
2:AB:155:LEU:HD22	2:AB:157:ARG:O	2.16	0.45
3:AC:7:PRO:HG3	3:AC:184:TYR:CD1	2.52	0.45
3:AC:36:ASP:O	3:AC:40:ARG:NH1	2.50	0.45
3:AC:196:LEU:HB3	3:AC:197:GLY:H	1.63	0.45
4:AD:24:GLU:H	4:AD:112:VAL:HG21	1.80	0.45
4:AD:150:GLU:CD	4:AD:151:LYS:N	2.68	0.45
5:AE:7:GLU:OE1	5:AE:37:ARG:NE	2.41	0.45
8:AH:6:ILE:N	8:AH:6:ILE:CD1	2.80	0.45
9:AI:10:ARG:HE	9:AI:10:ARG:CA	2.29	0.45
9:AI:18:PHE:O	9:AI:61:ALA:HA	2.16	0.45
10:AJ:38:ILE:HD11	10:AJ:71:LEU:HG	1.97	0.45
10:AJ:40:LEU:HB2	10:AJ:41:PRO:CD	2.40	0.45
15:AO:34:LEU:HD12	15:AO:34:LEU:O	2.16	0.45
15:AO:74:ASP:OD2	15:AO:74:ASP:C	2.53	0.45
16:AP:30:GLY:O	16:AP:31:LYS:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:27:PHE:CE1	17:AQ:36:ILE:HD11	2.51	0.45
22:AV:49:C:O2'	22:AV:50:U:P	2.74	0.45
22:AW:56:C:H1'	38:BC:133:PRO:HD3	1.98	0.45
25:AZ:154:VAL:HG12	25:AZ:158:LEU:CD1	2.46	0.45
25:AZ:356:PRO:C	25:AZ:359:VAL:HG23	2.31	0.45
32:B6:19:ARG:CZ	36:BA:2400:G:O3'	2.64	0.45
33:B7:29:LYS:HE3	36:BA:210:C:OP2	2.15	0.45
36:BA:17:G:H21	36:BA:555:U:H5''	1.81	0.45
36:BA:218:A:C2'	36:BA:219:G:H5'	2.46	0.45
36:BA:363:G:C6	36:BA:363(A):A:N7	2.84	0.45
36:BA:431:U:H6	36:BA:431:U:O5'	2.00	0.45
36:BA:597:U:C5'	48:BP:15:ARG:NH2	2.79	0.45
36:BA:671:C:H2'	36:BA:672:C:C6	2.52	0.45
36:BA:806:C:H2'	36:BA:807:U:C6	2.52	0.45
36:BA:811:U:C6	48:BP:24:GLY:HA3	2.51	0.45
36:BA:883:G:N2	36:BA:893:C:C2	2.84	0.45
36:BA:978:G:C2	36:BA:979:G:H1'	2.51	0.45
36:BA:1051:G:H2'	36:BA:1052:C:C2	2.51	0.45
36:BA:1141:U:H5	46:BN:64:GLY:HA3	1.79	0.45
36:BA:1351:C:N3	36:BA:1381:G:C2	2.84	0.45
36:BA:1376:C:H2'	36:BA:1377:G:C5'	2.46	0.45
36:BA:1471:A:OP2	36:BA:1519:G:N1	2.50	0.45
36:BA:1558:A:C5	36:BA:1560:G:C8	3.05	0.45
36:BA:1666:G:H5'	36:BA:1666:G:H8	1.81	0.45
36:BA:1706:U:O2	36:BA:1757:U:H5'	2.17	0.45
36:BA:1856:G:H2'	36:BA:1857:G:C5'	2.46	0.45
36:BA:2710:C:HO2'	36:BA:2711:A:H5'	1.80	0.45
36:BA:2808:U:O4	36:BA:2892:A:C8	2.69	0.45
39:BD:267:SER:C	39:BD:269:PHE:H	2.18	0.45
40:BE:93:VAL:HG23	40:BE:180:ASN:OD1	2.17	0.45
40:BE:108:SER:O	40:BE:162:ALA:CA	2.63	0.45
41:BF:65:TRP:HB3	41:BF:66:PRO:CD	2.46	0.45
42:BG:47:LYS:HG3	42:BG:81:LYS:HE2	1.98	0.45
43:BH:23:ARG:O	43:BH:24:VAL:CG2	2.58	0.45
46:BN:44:PRO:HG3	53:BU:60:LEU:HD21	1.98	0.45
46:BN:48:MET:SD	46:BN:49:GLY:N	2.89	0.45
46:BN:120:LEU:CD1	46:BN:122:VAL:HG23	2.45	0.45
47:BO:23:ARG:HG3	47:BO:24:VAL:H	1.79	0.45
49:BQ:89:ASN:OD1	49:BQ:89:ASN:N	2.49	0.45
51:BS:98:VAL:HG12	51:BS:100:ALA:HB2	1.98	0.45
52:BT:27:THR:HG23	52:BT:28:VAL:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:61:PHE:N	52:BT:61:PHE:CD2	2.84	0.45
53:BU:101:ARG:O	53:BU:102:GLU:C	2.55	0.45
54:BV:35:LEU:O	54:BV:37:VAL:N	2.50	0.45
56:BX:23:GLU:N	56:BX:23:GLU:CD	2.70	0.45
58:BZ:40:ASP:HB3	58:BZ:43:GLU:HB3	1.97	0.45
1:CA:273:A:H2'	1:CA:274:A:O4'	2.17	0.45
1:CA:319:G:C2'	1:CA:320:C:H5'	2.46	0.45
1:CA:921:U:H2'	1:CA:922:G:O4'	2.17	0.45
1:CA:1256:A:N1	1:CA:1277:C:H2'	2.31	0.45
1:CA:1258:G:O5'	1:CA:1258:G:H8	2.00	0.45
1:CA:1383:C:O2'	1:CA:1384:C:H5'	2.17	0.45
1:CA:1401:G:H2'	1:CA:1402:C:O4'	2.17	0.45
1:CA:1522:U:H2'	1:CA:1523:G:H8	1.82	0.45
2:CB:17:PHE:CD2	2:CB:17:PHE:C	2.88	0.45
3:CC:83:ARG:O	3:CC:85:ARG:N	2.49	0.45
3:CC:90:GLU:C	3:CC:93:LYS:HB3	2.37	0.45
3:CC:186:PHE:CD1	3:CC:198:VAL:O	2.70	0.45
4:CD:79:PHE:CA	4:CD:93:PHE:CE2	2.97	0.45
4:CD:187:ARG:HG2	4:CD:188:LEU:N	2.31	0.45
5:CE:13:ILE:HA	5:CE:29:GLY:O	2.16	0.45
5:CE:145:LYS:HE2	5:CE:149:GLU:OE2	2.17	0.45
6:CF:10:LEU:HA	6:CF:84:ASN:O	2.16	0.45
6:CF:69:GLU:CD	6:CF:69:GLU:N	2.66	0.45
10:CJ:6:ILE:HG13	10:CJ:6:ILE:O	2.16	0.45
10:CJ:38:ILE:HD11	10:CJ:71:LEU:HG	1.99	0.45
12:CL:10:LEU:O	12:CL:14:GLY:N	2.46	0.45
13:CM:115:LYS:O	13:CM:116:THR:O	2.35	0.45
15:CO:77:ARG:HA	15:CO:80:ALA:HB3	1.98	0.45
20:CT:23:ARG:HG2	20:CT:23:ARG:NH1	2.32	0.45
29:D3:45:GLY:HA2	29:D3:48:GLU:CG	2.47	0.45
36:DA:27:G:H22	36:DA:512:G:H2'	1.74	0.45
36:DA:71:A:H3'	36:DA:71:A:OP2	2.17	0.45
36:DA:173:G:H2'	36:DA:173:G:N3	2.31	0.45
36:DA:552:G:H1'	36:DA:1220:A:C6	2.50	0.45
36:DA:566:U:H4'	36:DA:809:G:OP2	2.17	0.45
36:DA:673:C:OP1	41:DF:54:ARG:HD2	2.16	0.45
36:DA:1131:G:N7	36:DA:2025:C:H4'	2.32	0.45
36:DA:1545:A:N7	36:DA:1546:C:C2	2.84	0.45
36:DA:1591:G:C2'	36:DA:1592:C:H5'	2.46	0.45
36:DA:1770:G:C2'	36:DA:1771:C:H5'	2.47	0.45
36:DA:1770:G:O2'	36:DA:1771:C:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1811:G:H2'	36:DA:1812:A:H8	1.80	0.45
36:DA:1945:G:C6	36:DA:1946:U:C4	3.04	0.45
36:DA:1953:A:H2	36:DA:2549:G:N3	2.13	0.45
36:DA:1974:C:C4	36:DA:1975:G:N7	2.85	0.45
36:DA:2137:C:H42	36:DA:2154:G:H22	1.62	0.45
36:DA:2282:G:C4'	36:DA:2283:C:O5'	2.64	0.45
36:DA:2361:A:C4	36:DA:2362:G:C8	3.05	0.45
36:DA:2635:C:H2'	36:DA:2636:U:O5'	2.17	0.45
36:DA:2810:A:O2'	40:DE:61:ARG:NE	2.50	0.45
36:DA:2826:A:C2'	36:DA:2827:C:H5'	2.47	0.45
39:DD:73:VAL:HG13	39:DD:120:GLY:CA	2.46	0.45
39:DD:261:LYS:HZ1	39:DD:263:ARG:NH1	2.13	0.45
41:DF:9:ILE:HG23	41:DF:13:SER:O	2.15	0.45
41:DF:31:HIS:HE1	41:DF:34:TRP:CZ3	2.35	0.45
42:DG:68:PRO:HA	42:DG:92:VAL:HB	1.99	0.45
42:DG:112:PRO:C	42:DG:114:ILE:H	2.19	0.45
43:DH:68:THR:C	43:DH:70:THR:N	2.70	0.45
49:DQ:30:GLY:HA2	49:DQ:107:ALA:HB2	1.98	0.45
52:DT:49:VAL:C	52:DT:50:ILE:HD12	2.37	0.45
57:DY:46:LYS:HB2	57:DY:62:GLU:HG3	1.95	0.45
1:AA:110:C:O2'	16:AP:25:ARG:O	2.35	0.45
1:AA:266:G:H1'	1:AA:268:C:OP2	2.17	0.45
1:AA:266:G:H5'	1:AA:267:C:C5	2.51	0.45
1:AA:314:C:N4	1:AA:315:A:N6	2.64	0.45
1:AA:397:A:N7	1:AA:547:A:H2'	2.32	0.45
1:AA:657:G:H1	1:AA:749:C:N4	2.15	0.45
1:AA:798:G:C2'	1:AA:799:G:O5'	2.64	0.45
1:AA:819:A:N6	1:AA:1529:G:C5	2.85	0.45
1:AA:858:G:C6	1:AA:869:G:C8	3.04	0.45
1:AA:961:U:O2'	1:AA:962:C:C6	2.69	0.45
1:AA:1094:G:H3'	1:AA:1108:G:H22	1.82	0.45
1:AA:1148:U:O2'	1:AA:1149:C:H5'	2.16	0.45
1:AA:1339:A:O4'	22:AV:41:C:H1'	2.17	0.45
1:AA:1438:G:N1	1:AA:1439:C:C4	2.83	0.45
1:AA:1520:G:C2'	1:AA:1521:G:O5'	2.64	0.45
1:AA:1527:C:O2'	1:AA:1528:U:H5'	2.17	0.45
2:AB:25:ASN:HB2	2:AB:191:ASP:O	2.17	0.45
3:AC:29:TYR:HE1	10:AJ:65:LEU:HD21	1.82	0.45
3:AC:92:ALA:HB2	3:AC:99:VAL:CG2	2.47	0.45
3:AC:103:VAL:HG12	3:AC:104:GLN:N	2.31	0.45
4:AD:49:ARG:O	4:AD:51:PRO:CD	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:156:GLU:O	4:AD:159:ARG:HB2	2.16	0.45
6:AF:79:LEU:O	6:AF:81:ILE:N	2.49	0.45
7:AG:13:GLN:CD	7:AG:14:PRO:HD2	2.36	0.45
8:AH:137:VAL:HG12	8:AH:138:TRP:N	2.31	0.45
11:AK:101:SER:OG	11:AK:103:LEU:HD23	2.17	0.45
13:AM:15:VAL:C	13:AM:17:VAL:N	2.67	0.45
15:AO:11:VAL:HG12	15:AO:12:ILE:N	2.30	0.45
15:AO:77:ARG:HA	15:AO:80:ALA:HB3	1.98	0.45
17:AQ:7:THR:HA	17:AQ:57:VAL:O	2.16	0.45
18:AR:50:ILE:CD1	18:AR:70:ILE:HG21	2.44	0.45
22:AV:9:A:O2'	22:AV:10:G:N7	2.49	0.45
22:AV:20:U:C5'	22:AV:21:A:OP2	2.65	0.45
22:AW:16:U:C4	22:AW:19:G:OP1	2.69	0.45
25:AZ:32:THR:O	25:AZ:35:ALA:N	2.46	0.45
25:AZ:134:PHE:CD2	25:AZ:136:ASN:HB2	2.52	0.45
25:AZ:140:MET:HA	25:AZ:140:MET:HE2	1.99	0.45
28:B2:5:GLU:O	28:B2:9:GLN:CD	2.55	0.45
28:B2:48:HIS:O	28:B2:50:ILE:N	2.50	0.45
29:B3:12:PRO:HG2	29:B3:13:ILE:N	2.28	0.45
32:B6:20:ASN:C	32:B6:21:TYR:CG	2.89	0.45
32:B6:35:GLU:HB3	32:B6:51:GLU:CG	2.46	0.45
34:B8:58:ILE:HG22	34:B8:58:ILE:O	2.17	0.45
36:BA:28:A:C2	53:BU:11:ARG:NH2	2.84	0.45
36:BA:591:C:H2'	36:BA:592:G:C8	2.50	0.45
36:BA:597:U:H5''	48:BP:15:ARG:NH2	2.31	0.45
36:BA:970:C:H2'	36:BA:971:C:H6	1.81	0.45
36:BA:1216:G:C2'	36:BA:1217:C:H5'	2.46	0.45
36:BA:1268:A:C8	36:BA:1269:A:C8	3.05	0.45
36:BA:1334:G:O2'	36:BA:1335:U:H5'	2.17	0.45
36:BA:1477:A:H5'	36:BA:1478:G:OP2	2.17	0.45
36:BA:1567:A:C5'	39:BD:58:HIS:HD2	2.29	0.45
36:BA:1654:A:OP1	50:BR:3:HIS:N	2.50	0.45
36:BA:1932:A:H2'	36:BA:1933:G:O4'	2.16	0.45
36:BA:2138:C:H2'	36:BA:2139:C:H6	1.82	0.45
36:BA:2187:G:N7	36:BA:2188:C:C5	2.85	0.45
36:BA:2282:G:H5''	36:BA:2283:C:O5'	2.17	0.45
36:BA:2710:C:C2'	36:BA:2711:A:H5'	2.47	0.45
36:BA:2720:U:C2	36:BA:2721:A:C8	3.05	0.45
36:BA:2808:U:H5'	36:BA:2891:G:O6	2.16	0.45
37:BB:35:U:H2'	37:BB:36:C:C6	2.52	0.45
37:BB:104:U:H2'	37:BB:105:A:H8	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BB:105:A:C2	37:BB:106:G:H1'	2.52	0.45
38:BC:161:ILE:C	38:BC:161:ILE:CD1	2.82	0.45
42:BG:54:GLU:OE1	42:BG:54:GLU:N	2.50	0.45
47:BO:2:ILE:CG2	47:BO:3:GLN:N	2.79	0.45
47:BO:104:ARG:HH22	47:BO:107:ARG:NH2	2.15	0.45
50:BR:100:LEU:CD2	50:BR:112:ALA:HA	2.47	0.45
52:BT:31:SER:O	52:BT:32:TYR:O	2.35	0.45
53:BU:28:ARG:HH11	53:BU:38:THR:HG23	1.80	0.45
53:BU:90:VAL:O	53:BU:91:ASP:C	2.55	0.45
58:BZ:6:LYS:O	58:BZ:7:ALA:O	2.34	0.45
58:BZ:8:TYR:HB3	58:BZ:38:TYR:CZ	2.52	0.45
1:CA:70:G:H2'	1:CA:71:C:H5'	1.98	0.45
1:CA:161:A:O2'	1:CA:162:A:H5'	2.17	0.45
1:CA:264:U:H2'	1:CA:265:G:C8	2.52	0.45
1:CA:363:A:C2	12:CL:31:PRO:HG2	2.51	0.45
1:CA:397:A:H3'	1:CA:397:A:N3	2.32	0.45
1:CA:657:G:C2	1:CA:750:G:C5	3.05	0.45
1:CA:916:G:C2	1:CA:917:G:C8	3.04	0.45
1:CA:929:G:O2'	1:CA:930:C:H5'	2.16	0.45
1:CA:1285:A:O2'	1:CA:1286:A:P	2.74	0.45
1:CA:1303:C:C2	1:CA:1304:G:C8	3.05	0.45
1:CA:1348:U:H4'	9:CI:120:ARG:HG3	1.98	0.45
2:CB:157:ARG:CZ	2:CB:157:ARG:CB	2.95	0.45
3:CC:101:LEU:HD23	3:CC:101:LEU:C	2.37	0.45
3:CC:105:GLU:CG	3:CC:106:VAL:H	2.30	0.45
4:CD:20:TYR:CD1	4:CD:20:TYR:N	2.85	0.45
4:CD:196:LEU:C	4:CD:198:VAL:H	2.19	0.45
7:CG:26:PHE:O	7:CG:27:ILE:C	2.55	0.45
8:CH:5:PRO:HB2	8:CH:6:ILE:HD12	1.98	0.45
8:CH:134:ILE:O	8:CH:135:CYS:HB3	2.17	0.45
9:CI:99:LEU:O	9:CI:101:PHE:N	2.50	0.45
17:CQ:17:LYS:HA	17:CQ:46:ASP:O	2.17	0.45
17:CQ:43:LEU:HD23	17:CQ:43:LEU:HA	1.79	0.45
21:CU:5:ASP:HB3	21:CU:8:THR:HG23	1.97	0.45
22:CW:49:C:HO2'	22:CW:50:U:H6	1.63	0.45
25:CZ:13:ASN:HA	25:CZ:78:SER:HB2	1.97	0.45
25:CZ:38:GLU:OE2	25:CZ:39:ASN:ND2	2.50	0.45
25:CZ:364:PRO:C	25:CZ:366:ASP:N	2.70	0.45
26:D0:12:ASN:O	26:D0:14:ARG:N	2.46	0.45
26:D0:24:LYS:HG3	36:DA:2355:C:H4'	1.98	0.45
27:D1:69:LYS:O	27:D1:70:VAL:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:47:ASN:ND2	36:DA:94(A):G:N2	2.54	0.45
28:D2:48:HIS:O	28:D2:52:ASP:OD2	2.35	0.45
31:D5:15:ARG:NH2	36:DA:2022:U:OP2	2.50	0.45
31:D5:16:ARG:NH1	31:D5:16:ARG:HG2	2.32	0.45
31:D5:40:LYS:NZ	31:D5:46:CYS:N	2.65	0.45
32:D6:36:LEU:O	32:D6:37:ARG:HB2	2.16	0.45
32:D6:41:PRO:HG3	32:D6:49:HIS:CE1	2.51	0.45
35:D9:13:LYS:HD2	35:D9:28:GLU:CB	2.46	0.45
36:DA:251:A:C2'	36:DA:252:G:H5'	2.47	0.45
36:DA:329:G:N1	57:DY:19:LYS:HE3	2.28	0.45
36:DA:391:G:C4	36:DA:392:C:C6	3.05	0.45
36:DA:871:U:O2	36:DA:871:U:H2'	2.17	0.45
36:DA:1006:C:H2'	36:DA:1007:C:H6	1.81	0.45
36:DA:1131:G:C2	46:DN:75:TYR:HB2	2.52	0.45
36:DA:1464:C:N3	36:DA:1465:G:N7	2.64	0.45
36:DA:1773:A:N6	36:DA:1829:A:H1'	2.31	0.45
36:DA:2111:C:C4	36:DA:2145:C:H2'	2.51	0.45
36:DA:2239:G:H2'	36:DA:2240:C:C6	2.52	0.45
36:DA:2392:A:H2'	36:DA:2393:A:O4'	2.17	0.45
36:DA:2709:G:H2'	36:DA:2710:C:C6	2.52	0.45
36:DA:2756:U:O2'	36:DA:2757:A:H5''	2.16	0.45
36:DA:2880:C:O2	50:DR:91:GLN:O	2.35	0.45
37:DB:72:G:H1'	37:DB:106:G:N2	2.32	0.45
37:DB:81:G:N3	37:DB:81:G:H5'	2.32	0.45
39:DD:261:LYS:NZ	39:DD:263:ARG:NH1	2.65	0.45
40:DE:93:VAL:HG12	40:DE:175:VAL:HG21	1.98	0.45
40:DE:188:VAL:O	40:DE:189:PRO:O	2.34	0.45
41:DF:158:THR:HG23	41:DF:160:ASN:H	1.82	0.45
41:DF:181:LEU:HD11	41:DF:186:ILE:CD1	2.34	0.45
42:DG:66:GLN:NE2	42:DG:93:THR:O	2.50	0.45
46:DN:133:GLN:CG	46:DN:135:PRO:HD3	2.31	0.45
47:DO:106:LEU:O	47:DO:107:ARG:C	2.54	0.45
49:DQ:63:LYS:HE3	49:DQ:65:PHE:HE1	1.81	0.45
51:DS:73:LEU:HD23	51:DS:73:LEU:C	2.37	0.45
53:DU:70:ARG:C	53:DU:72:HIS:H	2.18	0.45
55:DW:20:VAL:CG2	55:DW:47:VAL:HG21	2.42	0.45
55:DW:70:TYR:OH	55:DW:72:LYS:HG2	2.16	0.45
58:DZ:5:LEU:C	58:DZ:6:LYS:HD3	2.37	0.45
1:AA:17:U:O4'	1:AA:1080:A:H1'	2.16	0.45
1:AA:80:G:N2	1:AA:90:U:H5'	2.30	0.45
1:AA:409:G:OP1	4:AD:22:LYS:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:901:A:C5	1:AA:902:G:H1'	2.51	0.45
1:AA:954:G:H21	1:AA:1227:A:N6	2.15	0.45
1:AA:962:C:O2	1:AA:1201:A:C2	2.70	0.45
1:AA:1069:C:C2'	1:AA:1070:U:O5'	2.65	0.45
1:AA:1202:G:C4	14:AN:42:ILE:HG21	2.52	0.45
1:AA:1239:A:H4'	1:AA:1240:U:C5'	2.46	0.45
1:AA:1364:U:OP1	1:AA:1364:U:H6	1.99	0.45
2:AB:17:PHE:O	2:AB:18:GLY:O	2.34	0.45
2:AB:68:ILE:HG12	2:AB:161:ALA:HB3	1.99	0.45
2:AB:209:ARG:HH11	2:AB:239:VAL:CG1	2.19	0.45
3:AC:39:ILE:HG22	3:AC:40:ARG:N	2.32	0.45
4:AD:19:LEU:HD23	4:AD:67:ILE:HG13	1.98	0.45
4:AD:94:LEU:O	4:AD:95:GLY:C	2.54	0.45
10:AJ:40:LEU:CD1	10:AJ:69:ASN:HB3	2.47	0.45
12:AL:23:LYS:C	12:AL:24:VAL:HG23	2.37	0.45
12:AL:101:VAL:O	12:AL:104:VAL:HG23	2.16	0.45
13:AM:74:VAL:HA	13:AM:77:ASN:ND2	2.31	0.45
14:AN:42:ILE:HG22	14:AN:43:CYS:H	1.82	0.45
16:AP:12:LYS:C	16:AP:14:ASN:N	2.69	0.45
18:AR:34:TYR:CD1	18:AR:35:ARG:HG3	2.51	0.45
19:AS:50:ALA:HA	19:AS:58:VAL:O	2.17	0.45
20:AT:77:ALA:C	20:AT:79:ARG:N	2.70	0.45
22:AW:55:U:O2'	22:AW:56:C:C6	2.69	0.45
24:AY:12:U:H3	24:AY:23:A:H2	1.65	0.45
25:AZ:191:GLY:HA2	25:AZ:196:VAL:CG1	2.39	0.45
25:AZ:238:ALA:O	25:AZ:287:GLY:HA2	2.17	0.45
25:AZ:331:HIS:H	25:AZ:331:HIS:CD2	2.35	0.45
25:AZ:389:ARG:C	25:AZ:395:VAL:HG13	2.36	0.45
27:B1:37:ILE:H	27:B1:37:ILE:CD1	2.29	0.45
28:B2:68:ARG:NH2	28:B2:72:ALA:CB	2.79	0.45
32:B6:12:GLU:HG3	32:B6:23:THR:HG22	1.98	0.45
32:B6:17:LYS:HD3	32:B6:17:LYS:HA	1.43	0.45
32:B6:42:TRP:HA	32:B6:42:TRP:HE3	1.82	0.45
35:B9:31:LYS:C	35:B9:32:HIS:HD2	2.20	0.45
36:BA:251:A:C2'	36:BA:252:G:H5'	2.47	0.45
36:BA:401:A:H2'	36:BA:402:A:H8	1.81	0.45
36:BA:675:A:O2'	36:BA:676:A:H5'	2.17	0.45
36:BA:1028:A:H8	36:BA:1028:A:O5'	1.99	0.45
36:BA:1244:G:H5'	36:BA:1244:G:H8	1.81	0.45
36:BA:1245:G:C5'	41:BF:34:TRP:HZ2	2.28	0.45
36:BA:1332:G:H5'	36:BA:1333:C:H5	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1423:G:H1	36:BA:1575:C:H42	1.63	0.45
36:BA:1853:A:N6	36:BA:1888:G:H2'	2.32	0.45
36:BA:1897:G:O5'	36:BA:1897:G:H8	2.00	0.45
36:BA:2090:G:H2'	36:BA:2091:U:O4'	2.16	0.45
36:BA:2115:G:C2	36:BA:2117:A:C8	3.04	0.45
36:BA:2197:U:O4	36:BA:2224:G:H2'	2.17	0.45
36:BA:2465:C:O2'	36:BA:2466:C:H5'	2.16	0.45
36:BA:2562:U:H2'	36:BA:2563:U:C5'	2.45	0.45
36:BA:2838:G:H2'	36:BA:2839:G:H8	1.82	0.45
36:BA:2839:G:O2'	50:BR:92:GLY:HA2	2.17	0.45
39:BD:3:VAL:CG1	39:BD:17:THR:HB	2.47	0.45
40:BE:103:ASP:OD2	40:BE:202:LYS:HE3	2.16	0.45
41:BF:7:TYR:HD2	41:BF:16:GLY:CA	2.30	0.45
42:BG:44:GLY:HA2	42:BG:88:ILE:HB	1.98	0.45
42:BG:60:LEU:O	42:BG:60:LEU:CD1	2.64	0.45
43:BH:37:VAL:CG2	43:BH:72:ILE:HD11	2.47	0.45
46:BN:67:LEU:O	46:BN:68:GLU:HB2	2.16	0.45
47:BO:11:ALA:O	47:BO:98:VAL:HA	2.17	0.45
49:BQ:30:GLY:HA2	49:BQ:107:ALA:HB2	1.97	0.45
50:BR:42:LYS:O	50:BR:44:LEU:N	2.50	0.45
51:BS:101:LEU:HD12	51:BS:101:LEU:C	2.37	0.45
52:BT:6:LEU:HD23	52:BT:9:LEU:HD12	1.99	0.45
52:BT:89:VAL:O	52:BT:91:ARG:HG3	2.17	0.45
54:BV:2:PHE:HB3	54:BV:41:GLY:O	2.17	0.45
55:BW:17:VAL:C	55:BW:19:LEU:H	2.19	0.45
1:CA:152:A:N6	1:CA:170:U:C2	2.85	0.45
1:CA:282:A:N3	1:CA:282:A:H2'	2.32	0.45
1:CA:364:A:H2'	1:CA:365:U:O2	2.17	0.45
1:CA:585:G:H1	1:CA:756:C:N4	2.13	0.45
1:CA:763:G:H2'	1:CA:764:C:C6	2.52	0.45
1:CA:878:G:OP1	8:CH:90:GLY:HA3	2.17	0.45
1:CA:1206:G:H4'	3:CC:192:THR:O	2.17	0.45
1:CA:1321:C:HO2'	19:CS:78:ARG:HH12	1.64	0.45
1:CA:1466:C:H2'	1:CA:1467:G:O4'	2.17	0.45
1:CA:1509:C:H42	1:CA:1526:G:H1	1.63	0.45
1:CA:1525:G:OP2	11:CK:126:ARG:NH2	2.45	0.45
2:CB:100:GLY:O	2:CB:102:LEU:N	2.50	0.45
2:CB:167:PRO:HG3	2:CB:188:ALA:HB2	1.99	0.45
2:CB:223:ILE:O	2:CB:226:ARG:HB3	2.16	0.45
2:CB:224:GLN:HA	2:CB:229:VAL:HG22	1.98	0.45
3:CC:142:MET:SD	3:CC:148:GLY:CA	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:19:LEU:HD12	4:CD:19:LEU:N	2.31	0.45
4:CD:59:ARG:HE	4:CD:59:ARG:HA	1.82	0.45
4:CD:73:ARG:HD3	4:CD:73:ARG:HA	1.81	0.45
4:CD:129:ASN:HD21	4:CD:145:GLU:H	1.65	0.45
7:CG:31:MET:HB2	7:CG:39:ALA:CB	2.45	0.45
7:CG:61:VAL:O	7:CG:63:LYS:N	2.50	0.45
9:CI:97:LYS:O	9:CI:98:PRO:C	2.54	0.45
10:CJ:17:ASP:CB	10:CJ:70:ARG:NH2	2.79	0.45
17:CQ:24:GLU:HA	17:CQ:39:SER:HA	1.98	0.45
17:CQ:48:GLU:OE1	17:CQ:50:LYS:HD3	2.17	0.45
17:CQ:52:LYS:O	17:CQ:55:ASP:OD1	2.34	0.45
19:CS:45:VAL:C	19:CS:47:HIS:H	2.20	0.45
25:CZ:104:LEU:HD13	25:CZ:120:ILE:HD11	1.97	0.45
26:D0:10:THR:HG23	26:D0:12:ASN:OD1	2.16	0.45
27:D1:80:LEU:HD23	27:D1:81:LYS:N	2.26	0.45
27:D1:91:LYS:O	27:D1:93:GLU:N	2.46	0.45
29:D3:50:VAL:O	29:D3:52:HIS:N	2.50	0.45
30:D4:9:LEU:O	30:D4:10:VAL:HG12	2.17	0.45
35:D9:4:ARG:O	35:D9:36:GLN:HA	2.16	0.45
36:DA:149:A:C2	36:DA:150:C:N3	2.84	0.45
36:DA:271(V):G:C6	36:DA:271(W):G:C2	3.05	0.45
36:DA:364:C:O2	36:DA:364:C:C2'	2.60	0.45
36:DA:853:G:H2'	36:DA:854:G:O4'	2.17	0.45
36:DA:909:A:O2'	36:DA:910:A:C5'	2.65	0.45
36:DA:1090:U:H3	36:DA:1102:C:HO2'	1.65	0.45
36:DA:1170:G:H5''	36:DA:1173:G:H22	1.81	0.45
36:DA:1319:G:C6	36:DA:1320:C:N4	2.85	0.45
36:DA:1845:G:OP1	39:DD:258:LYS:NZ	2.41	0.45
36:DA:2049:G:O2'	36:DA:2050:C:H5'	2.16	0.45
36:DA:2055:C:H5'	36:DA:2056:G:O5'	2.16	0.45
36:DA:2633:G:C5'	36:DA:2812:G:H5'	2.46	0.45
36:DA:2641:G:OP2	46:DN:74:ARG:CZ	2.64	0.45
36:DA:2661:G:O2'	36:DA:2662:A:H5'	2.16	0.45
36:DA:2773:C:O2'	36:DA:2774:C:H5'	2.17	0.45
36:DA:2823:A:OP2	40:DE:112:GLY:HA3	2.17	0.45
38:DC:103:ILE:HG23	38:DC:107:TRP:CG	2.51	0.45
39:DD:214:TRP:O	39:DD:215:LEU:C	2.55	0.45
39:DD:223:GLY:HA3	39:DD:231:HIS:CD2	2.51	0.45
39:DD:231:HIS:ND1	39:DD:232:PRO:N	2.65	0.45
40:DE:8:LYS:O	40:DE:193:GLY:N	2.49	0.45
40:DE:126:PRO:O	40:DE:127:ASP:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:63:ILE:HA	42:DG:143:GLU:OE2	2.17	0.45
43:DH:136:ILE:N	43:DH:136:ILE:CD1	2.80	0.45
47:DO:2:ILE:CG2	47:DO:3:GLN:N	2.80	0.45
51:DS:96:GLY:C	51:DS:98:VAL:N	2.70	0.45
51:DS:97:ARG:NE	51:DS:97:ARG:C	2.70	0.45
52:DT:25:GLY:O	52:DT:48:ILE:HG22	2.17	0.45
53:DU:99:ALA:HB2	53:DU:106:PHE:CZ	2.52	0.45
54:DV:35:LEU:O	54:DV:37:VAL:N	2.50	0.45
54:DV:95:LEU:C	54:DV:95:LEU:CD2	2.85	0.45
57:DY:63:LYS:HG2	57:DY:64:GLU:H	1.81	0.45
1:AA:126:G:C6	1:AA:127:G:C5	3.05	0.45
1:AA:456:C:H2'	1:AA:457:C:C6	2.52	0.45
1:AA:739:C:C4	1:AA:740:U:C5	3.05	0.45
1:AA:791:G:O6	1:AA:792:A:N6	2.47	0.45
1:AA:865:A:C6	1:AA:866:C:N3	2.85	0.45
1:AA:952:U:H2'	1:AA:953:G:H8	1.81	0.45
1:AA:965:A:H1'	1:AA:969:A:C8	2.51	0.45
1:AA:1058:G:H2'	1:AA:1059:C:C6	2.52	0.45
1:AA:1096:C:N4	1:AA:1097:C:N4	2.64	0.45
1:AA:1208:C:O2'	1:AA:1209:C:H5'	2.16	0.45
1:AA:1339:A:H2	22:AV:31:A:O4'	2.00	0.45
2:AB:97:TRP:CZ3	2:AB:173:ALA:HA	2.51	0.45
2:AB:162:ILE:O	2:AB:185:ILE:HG12	2.17	0.45
2:AB:168:THR:HG23	2:AB:192:SER:CA	2.46	0.45
3:AC:105:GLU:CG	3:AC:106:VAL:H	2.28	0.45
4:AD:13:ARG:NH1	4:AD:38:TYR:O	2.49	0.45
5:AE:103:GLY:H	5:AE:106:PRO:CG	2.29	0.45
7:AG:58:PRO:O	7:AG:59:LEU:C	2.56	0.45
7:AG:69:VAL:O	7:AG:71:PRO:HD3	2.17	0.45
7:AG:107:ALA:O	7:AG:108:ALA:C	2.55	0.45
9:AI:80:GLY:O	9:AI:84:ALA:CB	2.65	0.45
10:AJ:46:ARG:O	10:AJ:47:PHE:CD1	2.70	0.45
10:AJ:89:ASP:O	10:AJ:90:LEU:CB	2.61	0.45
11:AK:90:GLY:O	11:AK:94:ALA:N	2.35	0.45
12:AL:70:ILE:HD13	12:AL:77:LEU:HD12	1.98	0.45
13:AM:10:PRO:CB	13:AM:18:ALA:HB1	2.47	0.45
17:AQ:52:LYS:O	17:AQ:55:ASP:OD1	2.35	0.45
19:AS:67:VAL:C	19:AS:69:HIS:N	2.70	0.45
20:AT:58:LYS:O	20:AT:61:SER:HB3	2.16	0.45
25:AZ:70:TYR:CD1	25:AZ:70:TYR:C	2.90	0.45
25:AZ:163:PHE:C	25:AZ:165:GLY:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:179:LEU:HG	25:AZ:179:LEU:O	2.17	0.45
27:B1:4:VAL:HG23	27:B1:11:ARG:CG	2.32	0.45
28:B2:14:ARG:O	28:B2:67:LYS:CE	2.64	0.45
33:B7:20:ALA:C	33:B7:22:MET:N	2.70	0.45
34:B8:10:ALA:O	34:B8:13:ARG:N	2.50	0.45
36:BA:141:A:N6	36:BA:142:A:N6	2.65	0.45
36:BA:158:U:H2'	36:BA:171:G:O4'	2.16	0.45
36:BA:211:A:H2'	36:BA:212:G:C8	2.51	0.45
36:BA:271(Q):G:H1'	36:BA:271(R):G:C8	2.52	0.45
36:BA:533:G:H5'	53:BU:24:TYR:CE2	2.52	0.45
36:BA:568:U:O2'	36:BA:569:U:C5	2.68	0.45
36:BA:680:G:H2'	36:BA:681:G:H8	1.80	0.45
36:BA:853:G:H2'	36:BA:854:G:O4'	2.16	0.45
36:BA:1301:A:HO2'	36:BA:1302:A:H2'	1.80	0.45
36:BA:1504:C:O2'	36:BA:1505:C:H5'	2.17	0.45
36:BA:1519:G:H5'	36:BA:1520:G:P	2.57	0.45
36:BA:1528:A:O2'	36:BA:1528(A):A:P	2.75	0.45
36:BA:2123:G:H1'	38:BC:172:HIS:CB	2.47	0.45
36:BA:2203:U:O2	36:BA:2203:U:H2'	2.17	0.45
36:BA:2306:C:H5''	36:BA:2307:G:O4'	2.17	0.45
36:BA:2460:U:H2'	36:BA:2461:C:H6	1.82	0.45
36:BA:2464:C:O2'	36:BA:2465:C:O5'	2.35	0.45
39:BD:57:GLY:O	39:BD:58:HIS:C	2.52	0.45
39:BD:231:HIS:CD2	39:BD:249:PRO:HB3	2.52	0.45
40:BE:93:VAL:HG12	40:BE:175:VAL:HG21	1.99	0.45
42:BG:63:ILE:C	42:BG:65:GLY:N	2.70	0.45
43:BH:136:ILE:H	43:BH:136:ILE:CD1	2.30	0.45
47:BO:78:ARG:HH21	52:BT:73:GLU:CD	2.20	0.45
48:BP:23:PRO:HD2	48:BP:33:ARG:CZ	2.46	0.45
48:BP:78:PRO:HB3	48:BP:111:ARG:NH2	2.31	0.45
50:BR:13:HIS:CE1	50:BR:16:HIS:HB3	2.52	0.45
50:BR:63:ARG:HG3	50:BR:63:ARG:HH11	1.81	0.45
52:BT:92:GLY:HA3	52:BT:120:ARG:HH21	1.82	0.45
54:BV:38:LEU:HD11	54:BV:57:VAL:HB	1.98	0.45
55:BW:50:VAL:O	55:BW:50:VAL:HG22	2.16	0.45
58:BZ:58:VAL:C	58:BZ:59:LEU:HD23	2.37	0.45
58:BZ:145:GLU:OE1	58:BZ:145:GLU:HA	2.17	0.45
1:CA:69:G:O2'	1:CA:70:G:H5'	2.15	0.45
1:CA:138:G:H2'	1:CA:139:G:C8	2.52	0.45
1:CA:456:C:H2'	1:CA:457:C:C6	2.52	0.45
1:CA:723:U:O2	1:CA:723:U:C2'	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:779:C:H2'	1:CA:780:A:O4'	2.16	0.45
1:CA:786:G:C2	1:CA:787:A:H1'	2.51	0.45
1:CA:1151:A:H5'	10:CJ:40:LEU:O	2.16	0.45
1:CA:1228:C:H6	1:CA:1228:C:H3'	1.82	0.45
1:CA:1504:G:N2	1:CA:1505:G:O6	2.49	0.45
2:CB:29:ALA:HA	2:CB:32:ILE:HG22	1.99	0.45
4:CD:2:GLY:O	4:CD:3:ARG:C	2.55	0.45
6:CF:48:LEU:HD12	6:CF:57:GLN:N	2.31	0.45
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HB2	1.98	0.45
12:CL:45:PRO:HG3	12:CL:53:ARG:CD	2.44	0.45
12:CL:80:HIS:CD2	24:CY:68:U:H4'	2.52	0.45
13:CM:10:PRO:CB	13:CM:18:ALA:HB1	2.47	0.45
13:CM:34:LEU:HD11	13:CM:41:PRO:HG3	1.99	0.45
14:CN:29:ARG:CG	14:CN:29:ARG:NH1	2.78	0.45
15:CO:54:ARG:HD3	15:CO:54:ARG:O	2.16	0.45
17:CQ:6:LEU:O	17:CQ:7:THR:HG23	2.17	0.45
18:CR:31:LEU:CD2	18:CR:65:ILE:HD12	2.47	0.45
18:CR:68:LYS:O	18:CR:72:ARG:HG3	2.16	0.45
19:CS:28:LYS:C	19:CS:29:ARG:CG	2.85	0.45
19:CS:35:SER:C	19:CS:37:ARG:H	2.19	0.45
25:CZ:230:THR:HA	25:CZ:235:GLY:O	2.17	0.45
25:CZ:317:GLU:O	25:CZ:318:ALA:HB2	2.16	0.45
26:D0:43:THR:CG2	36:DA:2332:U:H5'	2.47	0.45
31:D5:12:SER:C	31:D5:14:ALA:N	2.70	0.45
36:DA:83:G:N2	36:DA:102:G:C2'	2.80	0.45
36:DA:90:U:O2	36:DA:90:U:C2'	2.65	0.45
36:DA:102:G:H4'	36:DA:102:G:OP1	2.17	0.45
36:DA:116:C:H2'	36:DA:117:G:H8	1.75	0.45
36:DA:336:C:H4'	57:DY:7:VAL:HG21	1.98	0.45
36:DA:437:G:O2'	36:DA:438:G:H5'	2.16	0.45
36:DA:579:G:H4'	36:DA:2017:U:H2'	1.99	0.45
36:DA:693:C:C4	36:DA:694:U:C4	3.05	0.45
36:DA:862:G:N3	36:DA:863:A:C1'	2.74	0.45
36:DA:954:G:H5''	49:DQ:13:GLN:CG	2.46	0.45
36:DA:1023:U:H1'	36:DA:1122:G:H5''	1.99	0.45
36:DA:1119:C:H2'	36:DA:1120:G:C8	2.51	0.45
36:DA:1188:U:H5''	54:DV:79:VAL:CG1	2.47	0.45
36:DA:1222:C:H2'	36:DA:1223:G:C5'	2.35	0.45
36:DA:1243:G:C3'	36:DA:1244:G:H5''	2.46	0.45
36:DA:1309:G:O2'	36:DA:1310:G:H5'	2.17	0.45
36:DA:1376:C:H2'	36:DA:1377:G:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1494:A:N3	36:DA:1494:A:H5'	2.32	0.45
36:DA:1645:G:OP1	36:DA:1646:C:H5'	2.17	0.45
36:DA:1675:C:C2'	36:DA:1676:A:H5'	2.47	0.45
36:DA:1720:U:C2'	36:DA:1721:G:H5''	2.47	0.45
36:DA:1827:C:H5''	36:DA:1971:A:O3'	2.17	0.45
36:DA:1856:G:H2'	36:DA:1857:G:C5'	2.47	0.45
36:DA:1924:C:H2'	36:DA:1925:C:C6	2.49	0.45
36:DA:2101:G:C2'	36:DA:2102:U:H5''	2.43	0.45
36:DA:2164:C:H2'	36:DA:2165:G:H5'	1.99	0.45
37:DB:72:G:O2'	37:DB:105:A:N6	2.50	0.45
39:DD:152:GLY:O	39:DD:153:ALA:C	2.54	0.45
40:DE:154:LYS:O	40:DE:155:LYS:C	2.56	0.45
42:DG:34:LEU:HD13	42:DG:99:MET:CE	2.46	0.45
42:DG:47:LYS:CG	42:DG:81:LYS:HE2	2.47	0.45
42:DG:59:GLU:OE1	42:DG:153:ARG:NH2	2.40	0.45
46:DN:4:TYR:OH	53:DU:61:TRP:NE1	2.49	0.45
50:DR:67:LEU:O	50:DR:70:LEU:O	2.35	0.45
51:DS:104:GLY:O	51:DS:106:ARG:N	2.50	0.45
52:DT:89:VAL:HB	52:DT:91:ARG:HE	1.81	0.45
52:DT:133:GLU:O	52:DT:133:GLU:HG2	2.16	0.45
53:DU:9:VAL:C	53:DU:13:LYS:HE2	2.37	0.45
53:DU:10:ARG:CA	53:DU:13:LYS:HG2	2.45	0.45
55:DW:50:VAL:O	55:DW:50:VAL:HG22	2.17	0.45
56:DX:24:GLY:O	56:DX:82:GLN:NE2	2.50	0.45
56:DX:31:HIS:ND1	56:DX:32:PRO:HD2	2.31	0.45
1:AA:53:A:N1	1:AA:359:U:O2	2.50	0.45
1:AA:78:G:H1	1:AA:91:C:N4	2.15	0.45
1:AA:277:C:O2'	1:AA:278:G:H5'	2.17	0.45
1:AA:302:G:H2'	1:AA:303:A:H8	1.82	0.45
1:AA:304:U:O2'	1:AA:305:G:H5'	2.17	0.45
1:AA:376:G:O3'	16:AP:5:ARG:HD3	2.16	0.45
1:AA:443:C:O2'	1:AA:444:C:H5'	2.16	0.45
1:AA:688:G:O3'	11:AK:46:GLY:HA3	2.17	0.45
1:AA:795:C:C1'	1:AA:1506:U:C5	3.00	0.45
1:AA:968:A:HO2'	1:AA:969:A:P	2.37	0.45
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.81	0.45
1:AA:1142:G:H2'	1:AA:1143:G:C5'	2.40	0.45
1:AA:1162:C:C2	1:AA:1175:G:C2	3.05	0.45
1:AA:1181:G:HO2'	1:AA:1182:G:H5'	1.81	0.45
1:AA:1206:G:C4	1:AA:1207:G:C8	3.05	0.45
1:AA:1305:G:OP2	1:AA:1305:G:H8	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1387:G:C6	1:AA:1388:C:C4	3.05	0.45
1:AA:1423:G:C2	1:AA:1478:C:C2	3.05	0.45
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.52	0.45
1:AA:1463:C:H5''	52:BT:115:ARG:HH21	1.82	0.45
1:AA:1482:G:HO2'	1:AA:1483:A:H8	1.59	0.45
1:AA:1494:G:N2	1:AA:1495:U:C2	2.85	0.45
3:AC:138:VAL:CG1	3:AC:139:GLN:N	2.80	0.45
10:AJ:12:ASP:HB3	10:AJ:15:THR:HG1	1.80	0.45
12:AL:33:ARG:O	12:AL:85:ILE:HB	2.17	0.45
14:AN:48:ALA:N	14:AN:53:LEU:CD1	2.79	0.45
15:AO:5:LYS:C	15:AO:6:GLU:HG3	2.38	0.45
18:AR:31:LEU:CD2	18:AR:65:ILE:HD12	2.46	0.45
20:AT:56:MET:SD	20:AT:85:MET:HB3	2.57	0.45
22:AV:34:G:C2'	22:AV:35:A:H5'	2.47	0.45
24:AY:60:U:C5'	24:AY:61:C:H5	2.29	0.45
25:AZ:171:ILE:HD12	25:AZ:171:ILE:N	2.32	0.45
25:AZ:222:LEU:HA	25:AZ:304:LEU:O	2.17	0.45
26:B0:84:LEU:HD12	26:B0:84:LEU:H	1.81	0.45
27:B1:45:ASN:C	27:B1:45:ASN:ND2	2.69	0.45
32:B6:12:GLU:HA	32:B6:23:THR:HA	1.99	0.45
36:BA:58:G:H2'	36:BA:59:U:H6	1.81	0.45
36:BA:150:C:O5'	36:BA:150:C:H6	2.00	0.45
36:BA:173:G:H2'	36:BA:173:G:N3	2.32	0.45
36:BA:272(E):G:H22	36:BA:364:C:H1'	1.81	0.45
36:BA:654(L):G:H2'	36:BA:654(M):C:C4'	2.46	0.45
36:BA:723:G:H2'	36:BA:724:U:H6	1.75	0.45
36:BA:880:G:H2'	36:BA:881:G:C8	2.52	0.45
36:BA:886:C:HO2'	36:BA:887:A:H4'	1.78	0.45
36:BA:926:A:C5'	36:BA:926:A:H8	2.22	0.45
36:BA:1005:C:O5'	36:BA:1005:C:H6	1.99	0.45
36:BA:1747(A):G:H2'	36:BA:1748:G:C4'	2.46	0.45
36:BA:1822:G:C4	36:BA:1823:G:N7	2.85	0.45
36:BA:1884:A:H3'	36:BA:1885:A:H5''	1.99	0.45
36:BA:2026:C:O2	36:BA:2026:C:H2'	2.16	0.45
36:BA:2071:A:C2	36:BA:2441:C:N3	2.85	0.45
36:BA:2466:C:C2'	36:BA:2467:C:H5'	2.46	0.45
36:BA:2787:C:O2	36:BA:2787:C:C2'	2.64	0.45
36:BA:2810:A:O2'	40:BE:61:ARG:NE	2.50	0.45
36:BA:2826:A:H2'	36:BA:2827:C:H5'	1.98	0.45
37:BB:52:A:O2'	37:BB:53:A:C8	2.64	0.45
40:BE:188:VAL:O	40:BE:189:PRO:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:135:GLY:HA3	43:BH:141:VAL:HG22	1.99	0.45
46:BN:108:PRO:C	46:BN:109:LYS:HG3	2.37	0.45
50:BR:85:PRO:O	50:BR:86:ARG:C	2.56	0.45
52:BT:100:TYR:CD2	52:BT:103:ARG:NH2	2.85	0.45
53:BU:83:LEU:H	53:BU:83:LEU:HD12	1.82	0.45
54:BV:7:THR:O	54:BV:7:THR:HG23	2.17	0.45
54:BV:15:GLU:O	54:BV:16:PRO:O	2.35	0.45
55:BW:1:MET:HG3	55:BW:64:MET:HE3	1.98	0.45
55:BW:82:LEU:HD12	55:BW:82:LEU:N	2.31	0.45
57:BY:9:LYS:HG2	57:BY:11:ASP:OD2	2.15	0.45
57:BY:16:ALA:O	57:BY:21:LYS:HG3	2.17	0.45
1:CA:120:A:H2'	1:CA:122:G:N7	2.31	0.45
1:CA:279:A:OP2	17:CQ:95:TYR:OH	2.31	0.45
1:CA:353:A:H2'	1:CA:354:G:OP2	2.17	0.45
1:CA:515:G:H2'	1:CA:516:U:O4'	2.17	0.45
1:CA:654:G:H2'	1:CA:655:A:C8	2.52	0.45
1:CA:928:G:H2'	1:CA:929:G:C5'	2.46	0.45
1:CA:975:A:H8	1:CA:975:A:H5'	1.82	0.45
1:CA:1320:C:H5'	1:CA:1320:C:C6	2.52	0.45
1:CA:1358:U:H5''	14:CN:33:VAL:O	2.16	0.45
1:CA:1408:A:H5'	36:DA:1912:A:N6	2.32	0.45
1:CA:1460:A:N6	1:CA:1461:G:C2	2.85	0.45
1:CA:1475:G:H4'	36:DA:1689:A:H4'	1.98	0.45
2:CB:102:LEU:HD12	2:CB:102:LEU:N	2.32	0.45
4:CD:21:LEU:HD11	4:CD:66:ARG:O	2.17	0.45
5:CE:118:ILE:CG1	5:CE:119:LEU:N	2.79	0.45
7:CG:16:LEU:HD12	9:CI:41:VAL:O	2.16	0.45
7:CG:106:GLN:O	7:CG:109:ASN:N	2.49	0.45
8:CH:64:LYS:HG2	8:CH:65:TYR:H	1.79	0.45
9:CI:111:ARG:HG2	9:CI:112:LYS:N	2.31	0.45
10:CJ:40:LEU:CD1	10:CJ:69:ASN:HB3	2.46	0.45
14:CN:59:ALA:O	14:CN:60:SER:CB	2.63	0.45
15:CO:33:THR:HG23	15:CO:63:ARG:NH1	2.31	0.45
18:CR:63:GLN:O	18:CR:63:GLN:HG3	2.17	0.45
19:CS:16:LEU:C	19:CS:19:VAL:H	2.21	0.45
24:CY:75:C:C6	25:CZ:230:THR:O	2.70	0.45
25:CZ:32:THR:O	25:CZ:35:ALA:N	2.47	0.45
25:CZ:86:ALA:C	25:CZ:87:ASP:OD1	2.55	0.45
25:CZ:253:VAL:HG22	25:CZ:265:THR:O	2.16	0.45
28:D2:24:LEU:O	28:D2:24:LEU:HD23	2.17	0.45
29:D3:50:VAL:C	29:D3:52:HIS:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D4:14:ILE:HD12	30:D4:14:ILE:H	1.82	0.45
31:D5:8:LYS:NZ	36:DA:2055:C:OP1	2.50	0.45
33:D7:10:ARG:O	33:D7:13:ALA:N	2.49	0.45
33:D7:19:ARG:HD3	36:DA:125:G:P	2.57	0.45
33:D7:20:ALA:O	33:D7:23:ARG:N	2.49	0.45
36:DA:270:A:HO2'	36:DA:271:A:H5'	1.82	0.45
36:DA:284:U:O2'	36:DA:285:C:H5'	2.17	0.45
36:DA:420:C:H2'	36:DA:421:U:C6	2.52	0.45
36:DA:654(V):A:P	36:DA:655:A:H3'	2.57	0.45
36:DA:940:G:H3'	36:DA:941:A:H5''	1.98	0.45
36:DA:944:G:H5'	36:DA:945:A:C5'	2.46	0.45
36:DA:1169:G:H2'	36:DA:1170:G:O4'	2.17	0.45
36:DA:1336:A:H2'	36:DA:1337:G:C8	2.51	0.45
36:DA:1344:G:N2	36:DA:1404:C:H1'	2.31	0.45
36:DA:1579:A:H2'	36:DA:1580:A:C8	2.51	0.45
36:DA:1779:U:O2	36:DA:1783:A:N6	2.50	0.45
36:DA:1809:A:C6	36:DA:1810:A:C6	3.05	0.45
36:DA:1934:C:O2'	36:DA:1974:C:H5''	2.17	0.45
36:DA:2123:G:O6	36:DA:2175:C:N4	2.50	0.45
36:DA:2275:C:OP1	36:DA:2275:C:H2'	2.17	0.45
36:DA:2700:C:O2'	36:DA:2701:C:H5'	2.16	0.45
36:DA:2729:G:H2'	36:DA:2730:C:H6	1.82	0.45
36:DA:2732:G:C2'	36:DA:2733:A:H5'	2.47	0.45
36:DA:2849:U:H4'	36:DA:2868:A:C2	2.52	0.45
37:DB:112:U:H2'	37:DB:113:G:H8	1.79	0.45
38:DC:134:ARG:O	38:DC:136:LEU:HG	2.16	0.45
38:DC:189:ILE:HG22	38:DC:190:ARG:N	2.31	0.45
39:DD:184:LYS:N	39:DD:269:PHE:O	2.47	0.45
39:DD:241:PRO:C	39:DD:242:ARG:HD2	2.37	0.45
39:DD:259:THR:O	39:DD:260:ARG:C	2.55	0.45
40:DE:195:LEU:CD1	40:DE:196:VAL:N	2.75	0.45
41:DF:185:ASP:HA	41:DF:188:ARG:CD	2.46	0.45
42:DG:2:PRO:O	42:DG:3:LEU:CB	2.65	0.45
42:DG:47:LYS:HB3	42:DG:81:LYS:HE2	1.99	0.45
43:DH:23:ARG:O	43:DH:24:VAL:CG2	2.57	0.45
47:DO:2:ILE:CD1	47:DO:6:THR:HG21	2.47	0.45
47:DO:114:ILE:O	47:DO:117:LEU:N	2.49	0.45
48:DP:66:GLY:O	48:DP:67:MET:HB2	2.17	0.45
48:DP:107:LYS:C	48:DP:109:GLY:H	2.19	0.45
50:DR:24:GLN:O	50:DR:26:LYS:N	2.50	0.45
51:DS:12:PHE:N	51:DS:12:PHE:HD2	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:84:GLN:N	51:DS:105:ALA:HB3	2.32	0.45
51:DS:97:ARG:H	51:DS:97:ARG:HG3	1.55	0.45
51:DS:104:GLY:C	51:DS:106:ARG:H	2.20	0.45
54:DV:91:TYR:CD1	54:DV:92:THR:N	2.85	0.45
55:DW:5:ALA:C	55:DW:6:ILE:HG13	2.37	0.45
56:DX:20:GLY:O	56:DX:22:ALA:N	2.49	0.45
56:DX:23:GLU:N	56:DX:23:GLU:CD	2.70	0.45
1:AA:42:G:C6	1:AA:43:C:C4	3.05	0.45
1:AA:189(H):G:O2'	1:AA:189(I):G:O5'	2.34	0.45
1:AA:312:C:H2'	1:AA:313:A:H8	1.82	0.45
1:AA:409:G:OP2	1:AA:409:G:H8	1.99	0.45
1:AA:522:C:C2	1:AA:523:A:C8	3.05	0.45
1:AA:544:G:C6	1:AA:545:C:N3	2.84	0.45
1:AA:602:A:H2'	1:AA:603:U:H6	1.82	0.45
1:AA:773:G:N1	1:AA:774:G:C5	2.85	0.45
1:AA:933:G:N2	1:AA:935:A:O4'	2.50	0.45
1:AA:934:C:H5	1:AA:1344:C:C4	2.35	0.45
1:AA:1093:A:N3	1:AA:1095:U:H5'	2.32	0.45
1:AA:1174:G:O2'	1:AA:1175:G:H5'	2.17	0.45
1:AA:1186:G:H21	14:AN:61:TRP:C	2.20	0.45
1:AA:1217:C:O2'	1:AA:1218:C:H5'	2.16	0.45
1:AA:1307:U:H3	1:AA:1330:U:H3	1.64	0.45
1:AA:1320:C:H41	19:AS:37:ARG:HB3	1.82	0.45
2:AB:170:GLU:C	2:AB:172:ILE:N	2.69	0.45
3:AC:122:GLU:C	3:AC:124:ILE:N	2.69	0.45
3:AC:130:VAL:O	3:AC:131:ARG:C	2.55	0.45
4:AD:43:HIS:O	4:AD:45:GLN:HG2	2.17	0.45
4:AD:100:ARG:HG3	4:AD:100:ARG:HH11	1.81	0.45
6:AF:27:GLN:O	6:AF:28:ARG:C	2.55	0.45
8:AH:67:PRO:O	8:AH:76:PRO:HB3	2.17	0.45
8:AH:103:VAL:CG1	8:AH:108:GLY:HA3	2.47	0.45
11:AK:89:ALA:C	11:AK:91:ARG:H	2.19	0.45
12:AL:84:LEU:CD2	12:AL:85:ILE:N	2.78	0.45
13:AM:29:ARG:HB3	13:AM:64:TRP:CZ2	2.52	0.45
13:AM:98:VAL:O	13:AM:98:VAL:HG12	2.17	0.45
13:AM:108:ARG:HD2	13:AM:108:ARG:H	1.76	0.45
15:AO:11:VAL:O	15:AO:14:GLU:HB3	2.17	0.45
19:AS:40:ILE:HD11	19:AS:66:MET:HE3	1.99	0.45
19:AS:51:VAL:CG1	19:AS:52:TYR:N	2.79	0.45
22:AV:2:C:H2'	22:AV:3:C:C6	2.51	0.45
25:AZ:86:ALA:C	25:AZ:87:ASP:OD1	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:146:LEU:H	25:AZ:149:LEU:HD23	1.82	0.45
25:AZ:259:ALA:O	25:AZ:260:PRO:O	2.34	0.45
25:AZ:316:PHE:CD2	25:AZ:400:VAL:HG13	2.52	0.45
25:AZ:317:GLU:O	25:AZ:318:ALA:HB2	2.16	0.45
25:AZ:390:GLU:HB3	25:AZ:395:VAL:HG11	1.98	0.45
36:BA:139(A):G:H3'	36:BA:140:G:H8	1.82	0.45
36:BA:296:C:C2'	36:BA:297:C:H5'	2.47	0.45
36:BA:309:G:O3'	57:BY:18:GLY:HA3	2.17	0.45
36:BA:363(A):A:N3	36:BA:363(A):A:H2'	2.30	0.45
36:BA:373:U:H2'	36:BA:374:A:H8	1.81	0.45
36:BA:526:A:N6	36:BA:2626:C:H4'	2.32	0.45
36:BA:606:U:H2'	36:BA:607:U:H4'	1.98	0.45
36:BA:830:G:H1'	36:BA:2448:A:N1	2.31	0.45
36:BA:832:G:P	48:BP:40:SER:HB2	2.56	0.45
36:BA:919:G:H22	36:BA:2268:A:H3'	1.82	0.45
36:BA:1060:U:H6	36:BA:1060:U:OP1	2.00	0.45
36:BA:1336:A:O2'	36:BA:1337:G:H5'	2.17	0.45
36:BA:1466:G:C3'	36:BA:1547:C:H41	2.29	0.45
36:BA:1654:A:OP2	50:BR:3:HIS:CD2	2.69	0.45
36:BA:1720:U:H3'	36:BA:1721:G:H5''	1.98	0.45
36:BA:1761:C:C2'	36:BA:1762:A:H8	2.29	0.45
36:BA:1777:U:N3	36:BA:1778:U:C5	2.85	0.45
36:BA:1830:C:H6	36:BA:1830:C:O5'	2.00	0.45
36:BA:2199:A:H5'	36:BA:2200:C:OP2	2.17	0.45
36:BA:2334:G:H21	51:BS:18:ILE:HG21	1.81	0.45
36:BA:2413:G:C4	36:BA:2414:G:C8	3.05	0.45
36:BA:2455:G:N1	36:BA:2498:C:N4	2.66	0.45
36:BA:2638:G:OP1	40:BE:82:ARG:NH2	2.50	0.45
36:BA:2814:C:C6	36:BA:2815:C:H5	2.35	0.45
37:BB:43:C:H2'	37:BB:44:G:H5''	1.99	0.45
38:BC:10:LEU:HD12	38:BC:32:LEU:CD2	2.39	0.45
38:BC:148:ASN:O	38:BC:151:GLU:N	2.50	0.45
39:BD:43:ARG:NH1	39:BD:49:ILE:CG2	2.80	0.45
40:BE:165:VAL:CG1	40:BE:166:THR:N	2.80	0.45
42:BG:18:GLU:O	42:BG:19:LEU:C	2.55	0.45
42:BG:88:ILE:CG2	42:BG:89:GLY:N	2.80	0.45
43:BH:83:TYR:CB	43:BH:135:GLY:H	2.15	0.45
49:BQ:51:ARG:HG3	49:BQ:51:ARG:NH1	2.31	0.45
49:BQ:125:LEU:HB3	49:BQ:126:PRO:HD2	1.97	0.45
50:BR:24:GLN:O	50:BR:25:ALA:C	2.56	0.45
50:BR:97:VAL:O	50:BR:98:LEU:HD23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:14:HIS:C	53:BU:16:LYS:H	2.19	0.45
53:BU:18:LEU:HD11	53:BU:30:LYS:O	2.17	0.45
55:BW:87:PRO:O	55:BW:88:ARG:HD2	2.17	0.45
57:BY:49:VAL:O	57:BY:50:ARG:HB2	2.16	0.45
58:BZ:107:THR:HG22	58:BZ:111:VAL:HG21	1.99	0.45
58:BZ:151:HIS:O	58:BZ:152:ALA:O	2.34	0.45
1:CA:80:G:C3'	1:CA:81:U:C5'	2.93	0.45
1:CA:119:A:H5''	1:CA:120:A:H5'	1.97	0.45
1:CA:449:C:H3'	1:CA:450:G:C8	2.49	0.45
1:CA:619:U:N3	4:CD:135:LEU:HD21	2.31	0.45
1:CA:722:A:N3	1:CA:722:A:H2'	2.32	0.45
1:CA:926:G:C5	1:CA:1505:G:C5	3.05	0.45
1:CA:964:A:H5''	1:CA:965:A:OP2	2.17	0.45
1:CA:992:U:O2'	1:CA:993:G:OP2	2.31	0.45
1:CA:1379:G:C4	1:CA:1380:U:C5	3.05	0.45
1:CA:1507:A:H4'	1:CA:1507:A:OP2	2.17	0.45
4:CD:10:ARG:NH1	4:CD:40:PRO:HG3	2.31	0.45
4:CD:52:SER:O	4:CD:53:ASP:C	2.56	0.45
5:CE:51:VAL:CB	5:CE:52:PRO:HD3	2.44	0.45
7:CG:63:LYS:HZ3	7:CG:67:GLU:HB2	1.79	0.45
7:CG:135:VAL:O	7:CG:136:LYS:C	2.55	0.45
8:CH:11:THR:CG2	8:CH:14:ARG:HH12	2.20	0.45
8:CH:82:HIS:O	8:CH:137:VAL:HG13	2.17	0.45
8:CH:129:VAL:HG23	8:CH:130:GLY:N	2.30	0.45
10:CJ:43:ARG:O	10:CJ:67:THR:HG22	2.17	0.45
10:CJ:61:GLU:CG	14:CN:58:LYS:HE2	2.41	0.45
11:CK:114:VAL:HG23	11:CK:115:PRO:HD2	1.99	0.45
15:CO:70:LEU:HD12	15:CO:70:LEU:HA	1.63	0.45
15:CO:82:ILE:HD13	15:CO:82:ILE:C	2.38	0.45
17:CQ:56:VAL:HG23	17:CQ:81:ARG:HG3	1.95	0.45
19:CS:26:GLY:O	19:CS:27:GLU:O	2.35	0.45
19:CS:39:THR:HG22	19:CS:40:ILE:N	2.32	0.45
22:CV:52:G:H1	22:CV:62:C:H42	1.65	0.45
22:CW:35:A:N6	22:CW:36:A:N1	2.65	0.45
24:CY:30:C:O2	24:CY:30:C:C2'	2.59	0.45
25:CZ:19:HIS:HD2	25:CZ:115:GLN:N	2.14	0.45
25:CZ:191:GLY:HA3	25:CZ:197:ASP:CB	2.29	0.45
25:CZ:242:ILE:HD12	25:CZ:281:ILE:O	2.17	0.45
27:D1:94:LEU:HD12	27:D1:94:LEU:N	2.31	0.45
33:D7:12:ARG:NH2	33:D7:44:PRO:HB3	2.27	0.45
34:D8:18:ALA:C	34:D8:20:GLY:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:45:GLY:O	34:D8:46:ARG:C	2.56	0.45
34:D8:52:LYS:O	34:D8:56:GLU:OE1	2.35	0.45
36:DA:18:C:H2'	36:DA:19:C:C6	2.51	0.45
36:DA:209:C:C4'	36:DA:681:G:H4'	2.47	0.45
36:DA:240:G:C6	36:DA:241:A:N6	2.85	0.45
36:DA:467:G:H8	36:DA:467:G:OP2	1.99	0.45
36:DA:530:G:H1'	36:DA:532:A:N7	2.32	0.45
36:DA:597:U:C5'	48:DP:15:ARG:NH2	2.80	0.45
36:DA:621:A:C2'	36:DA:622:G:H5'	2.46	0.45
36:DA:760:G:O5'	36:DA:760:G:H8	2.00	0.45
36:DA:848:G:C4	36:DA:933:A:H1'	2.52	0.45
36:DA:1022:G:H22	36:DA:1142(A):A:H2	1.65	0.45
36:DA:1168:G:N1	36:DA:1182:A:C6	2.85	0.45
36:DA:1434:A:H61	36:DA:1558:A:N6	2.15	0.45
36:DA:1604:C:O2'	36:DA:1605:C:H5'	2.17	0.45
36:DA:1661:G:C6	36:DA:2000:G:N1	2.85	0.45
36:DA:1759:A:O2'	36:DA:1760:A:H5'	2.16	0.45
36:DA:1909:C:N4	36:DA:1921:G:H1	2.11	0.45
36:DA:2104:G:O6	36:DA:2185:C:N3	2.50	0.45
36:DA:2174:C:O2'	38:DC:219:GLY:O	2.30	0.45
36:DA:2414:G:H21	48:DP:67:MET:CE	2.29	0.45
36:DA:2510:C:O2'	36:DA:2511:U:H5'	2.17	0.45
36:DA:2531:A:H61	36:DA:2662:A:H61	1.65	0.45
36:DA:2554:U:O2'	36:DA:2555:U:H5'	2.17	0.45
36:DA:2672:G:C3'	36:DA:2673:G:H5''	2.46	0.45
36:DA:2681:C:C5	36:DA:2727:G:N2	2.85	0.45
36:DA:2683:C:H42	36:DA:2727:G:N2	2.14	0.45
36:DA:2807:G:C3'	36:DA:2808:U:C5'	2.90	0.45
37:DB:73:A:H2'	37:DB:74:U:H5'	1.99	0.45
37:DB:74:U:H2'	37:DB:75:G:O4'	2.17	0.45
39:DD:17:THR:HG23	39:DD:205:VAL:HB	1.99	0.45
39:DD:131:LEU:CB	39:DD:132:PRO:CD	2.95	0.45
43:DH:19:VAL:O	43:DH:20:ALA:HB2	2.17	0.45
43:DH:50:VAL:HG12	43:DH:51:ARG:N	2.32	0.45
46:DN:62:VAL:O	46:DN:62:VAL:HG13	2.17	0.45
48:DP:107:LYS:O	48:DP:109:GLY:N	2.49	0.45
49:DQ:53:ALA:CB	49:DQ:124:LYS:HE3	2.47	0.45
49:DQ:116:GLU:O	49:DQ:117:ALA:C	2.55	0.45
50:DR:79:LEU:O	50:DR:79:LEU:HD22	2.17	0.45
51:DS:12:PHE:CE1	51:DS:91:PRO:HB3	2.52	0.45
51:DS:18:ILE:HG13	51:DS:18:ILE:H	1.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:27:THR:HG23	52:DT:28:VAL:N	2.31	0.45
53:DU:65:ILE:HD11	53:DU:96:ALA:CB	2.47	0.45
54:DV:64:HIS:HA	54:DV:92:THR:HA	1.99	0.45
55:DW:12:ILE:O	55:DW:13:SER:C	2.55	0.45
57:DY:87:LYS:O	57:DY:91:GLU:N	2.50	0.45
1:AA:161:A:O2'	1:AA:162:A:H5'	2.16	0.44
1:AA:322:C:C5	1:AA:323:U:C5	3.05	0.44
1:AA:397:A:H5'	1:AA:398:C:OP1	2.18	0.44
1:AA:406:G:H2'	1:AA:407:G:C8	2.50	0.44
1:AA:563:A:C6	1:AA:567:G:N3	2.85	0.44
1:AA:694:A:H2'	1:AA:695:A:O4'	2.16	0.44
1:AA:779:C:H2'	1:AA:780:A:O4'	2.17	0.44
1:AA:901:A:C6	1:AA:902:G:H1'	2.52	0.44
1:AA:935:A:C2	1:AA:936:C:N3	2.86	0.44
1:AA:992:U:O2'	1:AA:993:G:P	2.76	0.44
1:AA:1012:U:O2'	1:AA:1013:G:H5'	2.17	0.44
1:AA:1132:C:O2'	1:AA:1133:G:H5'	2.17	0.44
1:AA:1157:A:O2'	1:AA:1158:C:P	2.76	0.44
1:AA:1200:C:O2'	1:AA:1201:A:OP2	2.28	0.44
2:AB:31:TYR:HE1	2:AB:200:ILE:HG12	1.82	0.44
2:AB:44:LEU:HD12	2:AB:44:LEU:N	2.24	0.44
2:AB:127:ILE:C	2:AB:129:GLU:N	2.69	0.44
2:AB:220:ASP:O	2:AB:223:ILE:N	2.50	0.44
4:AD:2:GLY:O	4:AD:3:ARG:C	2.56	0.44
4:AD:135:LEU:O	4:AD:137:SER:N	2.50	0.44
4:AD:175:SER:O	4:AD:176:LEU:HB2	2.17	0.44
5:AE:136:MET:C	5:AE:138:ALA:N	2.69	0.44
7:AG:61:VAL:O	7:AG:63:LYS:N	2.50	0.44
7:AG:95:ARG:O	7:AG:98:SER:N	2.49	0.44
8:AH:9:MET:O	8:AH:10:LEU:C	2.55	0.44
8:AH:91:ARG:HG2	8:AH:91:ARG:HH11	1.82	0.44
10:AJ:17:ASP:CB	10:AJ:70:ARG:NH2	2.80	0.44
11:AK:15:ALA:HA	11:AK:77:MET:HA	1.99	0.44
12:AL:28:LYS:C	12:AL:30:ALA:N	2.71	0.44
12:AL:32:PHE:CB	12:AL:84:LEU:HD21	2.47	0.44
13:AM:90:LEU:O	13:AM:92:HIS:N	2.49	0.44
14:AN:18:VAL:O	14:AN:19:ARG:O	2.35	0.44
15:AO:64:ARG:O	15:AO:66:LEU:N	2.50	0.44
21:AU:18:TYR:CD2	21:AU:22:ARG:NE	2.85	0.44
22:AV:32:U:H5'	22:AV:33:U:OP2	2.17	0.44
25:AZ:219:LYS:HB3	25:AZ:220:PRO:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B3:8:LEU:HA	29:B3:54:VAL:HG22	2.00	0.44
36:BA:120:U:H1'	36:BA:149:A:C8	2.52	0.44
36:BA:244:A:H3'	36:BA:245:G:H5''	1.99	0.44
36:BA:441:U:O2'	36:BA:442:G:H5'	2.16	0.44
36:BA:532:A:H5''	53:BU:28:ARG:NH1	2.30	0.44
36:BA:532:A:C5'	53:BU:28:ARG:HH12	2.30	0.44
36:BA:685:A:O2'	36:BA:773:U:O4	2.26	0.44
36:BA:699:A:H2'	36:BA:700:G:O4'	2.17	0.44
36:BA:1494:A:O2'	36:BA:1495:A:H5''	2.13	0.44
36:BA:1668:A:C5	36:BA:1674:G:C5	3.05	0.44
36:BA:1720:U:C3'	36:BA:1721:G:H5''	2.47	0.44
36:BA:2041:U:H2'	36:BA:2042:A:H8	1.80	0.44
36:BA:2400:G:H2'	36:BA:2401:U:H5'	1.98	0.44
36:BA:2460:U:O2'	36:BA:2461:C:H5'	2.17	0.44
36:BA:2633:G:H5'	36:BA:2812:G:H5'	1.99	0.44
39:BD:30:GLU:HB2	39:BD:35:LYS:CE	2.43	0.44
39:BD:52:ARG:H	39:BD:52:ARG:HG3	1.36	0.44
40:BE:132:HIS:CD2	40:BE:135:HIS:CE1	3.05	0.44
42:BG:69:ALA:O	42:BG:90:LEU:CD1	2.65	0.44
45:BK:18:UNK:O	45:BK:19:UNK:C	2.65	0.44
46:BN:89:LYS:C	46:BN:93:THR:HG22	2.37	0.44
46:BN:118:LYS:C	46:BN:120:LEU:H	2.20	0.44
48:BP:122:PRO:HB3	48:BP:141:ALA:CB	2.45	0.44
50:BR:52:ILE:O	50:BR:55:ALA:N	2.49	0.44
51:BS:66:ALA:CB	51:BS:99:LYS:HD3	2.47	0.44
55:BW:5:ALA:CB	55:BW:105:VAL:HB	2.46	0.44
55:BW:68:ARG:O	55:BW:110:LYS:N	2.50	0.44
56:BX:41:ASN:O	56:BX:45:THR:HG23	2.17	0.44
57:BY:8:LYS:HB2	57:BY:28:LYS:CE	2.47	0.44
1:CA:35:G:C5	1:CA:36:C:N4	2.85	0.44
1:CA:414:A:C2	1:CA:415:A:H1'	2.52	0.44
1:CA:452:A:C6	1:CA:453:A:C6	3.05	0.44
1:CA:704:A:O2'	1:CA:705:U:H5'	2.17	0.44
1:CA:1015:A:H4'	14:CN:15:LYS:NZ	2.33	0.44
1:CA:1054:C:OP1	1:CA:1198:G:OP2	2.35	0.44
1:CA:1240:U:H3'	1:CA:1241:G:C5'	2.48	0.44
1:CA:1339:A:C2	22:CV:31:A:H4'	2.52	0.44
1:CA:1460:A:N1	1:CA:1461:G:N3	2.65	0.44
2:CB:48:MET:O	2:CB:51:LEU:N	2.50	0.44
2:CB:158:LEU:HA	2:CB:159:PRO:HD3	1.78	0.44
3:CC:80:GLY:O	3:CC:82:GLU:OE2	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:122:GLU:O	3:CC:124:ILE:N	2.50	0.44
6:CF:56:PRO:HG2	6:CF:57:GLN:NE2	2.14	0.44
6:CF:62:TRP:CD1	18:CR:35:ARG:NH1	2.85	0.44
7:CG:19:GLY:O	7:CG:20:ASP:C	2.55	0.44
8:CH:6:ILE:N	8:CH:6:ILE:CD1	2.80	0.44
10:CJ:44:VAL:CG1	10:CJ:46:ARG:HG2	2.36	0.44
13:CM:63:THR:CG2	13:CM:64:TRP:N	2.77	0.44
19:CS:35:SER:O	19:CS:37:ARG:N	2.50	0.44
25:CZ:137:LYS:HA	62:CZ:501:GDP:O6	2.17	0.44
25:CZ:254:GLU:O	25:CZ:304:LEU:HA	2.18	0.44
27:D1:56:GLN:O	27:D1:57:GLU:C	2.55	0.44
29:D3:31:LEU:O	36:DA:1158:C:H4'	2.17	0.44
31:D5:4:HIS:CB	31:D5:5:PRO:CD	2.83	0.44
31:D5:33:CYS:SG	31:D5:49:CYS:SG	3.11	0.44
34:D8:50:LEU:CD1	34:D8:51:ALA:N	2.73	0.44
36:DA:65:C:O2'	36:DA:66:C:H5'	2.16	0.44
36:DA:153:C:H2'	36:DA:154:G:C8	2.52	0.44
36:DA:363:G:C6	36:DA:363(A):A:N7	2.85	0.44
36:DA:722:A:N3	36:DA:722:A:H2'	2.31	0.44
36:DA:1386:C:C6	36:DA:1386:C:C3'	3.01	0.44
36:DA:1446:C:N4	36:DA:1465:G:H1	2.14	0.44
36:DA:1605:C:H2'	36:DA:1606:G:C5'	2.46	0.44
36:DA:1747(A):G:H2'	36:DA:1748:G:C5'	2.46	0.44
36:DA:2450:A:C2	36:DA:2451:A:C4	3.05	0.44
36:DA:2830:G:H5'	40:DE:58:ARG:NH1	2.32	0.44
36:DA:2838:G:H2'	36:DA:2839:G:H8	1.82	0.44
37:DB:16:G:HO2'	37:DB:17:C:P	2.40	0.44
39:DD:24:ILE:HG12	39:DD:25:THR:N	2.32	0.44
39:DD:126:GLN:HG3	39:DD:129:ASN:HD21	1.80	0.44
39:DD:147:LEU:CD2	39:DD:183:ARG:HH12	2.30	0.44
46:DN:118:LYS:C	46:DN:120:LEU:H	2.21	0.44
47:DO:7:TYR:CE1	47:DO:20:MET:HB2	2.52	0.44
53:DU:90:VAL:HG21	54:DV:47:VAL:HG23	1.98	0.44
53:DU:112:ARG:CZ	54:DV:46:VAL:HG11	2.45	0.44
54:DV:38:LEU:O	54:DV:51:VAL:CG1	2.65	0.44
56:DX:41:ASN:O	56:DX:45:THR:HG23	2.16	0.44
57:DY:50:ARG:O	57:DY:53:PRO:HD3	2.17	0.44
58:DZ:47:VAL:O	58:DZ:48:PHE:C	2.54	0.44
58:DZ:127:LYS:HZ1	58:DZ:164:ALA:HB2	1.72	0.44
1:AA:406:G:C2	1:AA:407:G:C5	3.05	0.44
1:AA:546:G:OP1	4:AD:73:ARG:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:782:A:H2'	1:AA:783:C:O4'	2.18	0.44
1:AA:894:G:H2'	1:AA:895:G:O4'	2.17	0.44
1:AA:954:G:H4'	13:AM:120:LYS:HD2	1.99	0.44
1:AA:1054:C:OP2	1:AA:1198:G:OP2	2.35	0.44
1:AA:1055:A:C8	1:AA:1206:G:N2	2.85	0.44
1:AA:1134:G:N2	1:AA:1142:G:C6	2.86	0.44
1:AA:1164:G:C2	1:AA:1165:C:C4	3.05	0.44
1:AA:1245:A:H2'	1:AA:1246:C:C6	2.53	0.44
1:AA:1512:U:C2	1:AA:1513:A:N7	2.84	0.44
2:AB:8:LYS:HZ1	2:AB:217:ARG:HH12	1.65	0.44
2:AB:132:LYS:O	2:AB:136:VAL:HG23	2.17	0.44
3:AC:83:ARG:O	3:AC:85:ARG:N	2.50	0.44
3:AC:164:ARG:HE	3:AC:164:ARG:HB3	1.18	0.44
4:AD:52:SER:O	4:AD:53:ASP:C	2.56	0.44
7:AG:44:TYR:O	7:AG:47:CYS:N	2.50	0.44
8:AH:63:LEU:CD2	8:AH:63:LEU:N	2.77	0.44
8:AH:82:HIS:O	8:AH:137:VAL:HG13	2.16	0.44
8:AH:85:ARG:CZ	8:AH:87:SER:O	2.65	0.44
9:AI:4:TYR:HB2	9:AI:19:LEU:CB	2.31	0.44
12:AL:50:SER:O	12:AL:51:ALA:HB2	2.16	0.44
13:AM:106:ASN:O	13:AM:107:ALA:CB	2.64	0.44
20:AT:64:ASP:O	20:AT:67:ALA:N	2.51	0.44
22:AV:56:C:H1'	42:BG:76:SER:HB2	1.98	0.44
25:AZ:38:GLU:CG	25:AZ:189:ARG:HH12	2.17	0.44
25:AZ:188:THR:HG23	25:AZ:192:GLU:CD	2.36	0.44
29:B3:26:LEU:CB	29:B3:28:LEU:HD21	2.45	0.44
29:B3:56:VAL:CG1	29:B3:57:GLU:H	2.23	0.44
31:B5:13:LYS:HZ1	36:BA:516:C:P	2.41	0.44
31:B5:40:LYS:NZ	31:B5:46:CYS:N	2.66	0.44
33:B7:10:ARG:O	33:B7:13:ALA:N	2.51	0.44
34:B8:17:THR:O	34:B8:20:GLY:N	2.45	0.44
36:BA:140:G:H1'	36:BA:141:A:C2	2.52	0.44
36:BA:226:G:H5''	36:BA:257:A:O2'	2.17	0.44
36:BA:280:C:H42	36:BA:360:G:H1	1.65	0.44
36:BA:363:G:C2	36:BA:363(A):A:N7	2.85	0.44
36:BA:601:C:O5'	36:BA:601:C:H6	2.00	0.44
36:BA:944:G:H5'	36:BA:945:A:C5'	2.46	0.44
36:BA:970:C:H2'	36:BA:971:C:C6	2.53	0.44
36:BA:1090:U:H2'	36:BA:1091:G:O4'	2.17	0.44
36:BA:1120:G:H2'	36:BA:1121:C:H6	1.76	0.44
36:BA:1188:U:H5''	54:BV:79:VAL:CG1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1392:A:N6	36:BA:1393:A:N1	2.65	0.44
36:BA:1413:G:H2'	36:BA:1414:G:H8	1.82	0.44
36:BA:1789:A:H2'	36:BA:1790:C:H6	1.82	0.44
36:BA:1798:U:OP2	39:BD:274:ARG:NH2	2.37	0.44
36:BA:1834:U:O2	36:BA:1834:U:H2'	2.18	0.44
36:BA:2729:G:H2'	36:BA:2730:C:H6	1.82	0.44
36:BA:2732:G:H3'	36:BA:2733:A:C5'	2.46	0.44
36:BA:2853:C:H2'	36:BA:2854:G:H8	1.79	0.44
37:BB:73:A:H2'	37:BB:74:U:H5'	1.99	0.44
37:BB:105:A:H2'	37:BB:106:G:O4'	2.16	0.44
38:BC:10:LEU:HD12	38:BC:32:LEU:HA	1.99	0.44
38:BC:134:ARG:O	38:BC:136:LEU:HG	2.16	0.44
39:BD:101:GLU:HG2	39:BD:102:LYS:N	2.32	0.44
40:BE:68:ALA:O	40:BE:70:ALA:N	2.51	0.44
47:BO:107:ARG:NH1	52:BT:35:LYS:HB2	2.33	0.44
48:BP:23:PRO:HG2	48:BP:33:ARG:NE	2.32	0.44
48:BP:123:LEU:HD23	48:BP:123:LEU:H	1.81	0.44
49:BQ:27:VAL:H	49:BQ:137:TYR:HD1	1.65	0.44
50:BR:2:ARG:HD3	50:BR:5:LYS:NZ	2.31	0.44
54:BV:19:LYS:NZ	54:BV:21:ARG:O	2.50	0.44
55:BW:5:ALA:O	55:BW:6:ILE:HB	2.16	0.44
55:BW:17:VAL:O	55:BW:19:LEU:N	2.50	0.44
56:BX:12:VAL:HG12	56:BX:27:THR:CA	2.46	0.44
57:BY:59:GLY:O	57:BY:60:PHE:CD1	2.70	0.44
57:BY:87:LYS:O	57:BY:91:GLU:N	2.50	0.44
58:BZ:18:LEU:HD23	58:BZ:25:PRO:HB3	2.00	0.44
58:BZ:76:LEU:O	58:BZ:84:GLU:HG3	2.18	0.44
58:BZ:95:PRO:HA	58:BZ:128:VAL:O	2.17	0.44
58:BZ:115:GLY:HA2	58:BZ:174:VAL:HG13	1.98	0.44
1:CA:191:G:N3	20:CT:105:SER:HB3	2.32	0.44
1:CA:1106:G:C2	1:CA:1107:C:C6	3.05	0.44
1:CA:1203:C:O2'	1:CA:1204:A:H5'	2.16	0.44
1:CA:1308:U:OP1	13:CM:98:VAL:N	2.42	0.44
2:CB:92:TYR:C	2:CB:92:TYR:HD1	2.21	0.44
3:CC:102:ASN:O	3:CC:103:VAL:HG23	2.17	0.44
4:CD:88:VAL:O	4:CD:92:VAL:HG23	2.17	0.44
8:CH:13:ILE:O	8:CH:16:ALA:N	2.51	0.44
10:CJ:38:ILE:O	10:CJ:40:LEU:HD22	2.17	0.44
10:CJ:90:LEU:H	10:CJ:91:PRO:CD	2.26	0.44
12:CL:33:ARG:HG2	12:CL:60:LEU:HD12	1.99	0.44
12:CL:89:ARG:CD	12:CL:91:LYS:HB2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:89:ARG:CD	12:CL:91:LYS:HE2	2.46	0.44
18:CR:44:LEU:HD12	18:CR:44:LEU:N	2.33	0.44
19:CS:60:VAL:HG22	19:CS:61:TYR:O	2.16	0.44
20:CT:57:ARG:HH11	20:CT:103:GLY:H	1.55	0.44
22:CV:53:G:O2'	22:CV:54:U:H5'	2.17	0.44
24:CY:30:C:H42	24:CY:40:G:H1	1.64	0.44
25:CZ:98:GLN:O	25:CZ:98:GLN:CG	2.63	0.44
25:CZ:248:LYS:HA	25:CZ:270:VAL:HG21	1.99	0.44
27:D1:27:GLU:HB3	27:D1:28:GLY:H	1.48	0.44
27:D1:50:ARG:NH1	36:DA:2200:C:H5''	2.31	0.44
32:D6:42:TRP:CD2	36:DA:2348:U:O2'	2.69	0.44
33:D7:36:GLN:O	33:D7:38:GLY:N	2.50	0.44
36:DA:271(Q):G:H1'	36:DA:271(R):G:C8	2.52	0.44
36:DA:448:U:H1'	41:DF:84:VAL:HG11	2.00	0.44
36:DA:572:A:C5'	54:DV:78:LYS:HZ2	2.31	0.44
36:DA:927:G:N3	36:DA:927:G:H2'	2.31	0.44
36:DA:1052:C:O2'	36:DA:1053:C:P	2.75	0.44
36:DA:1218:C:H2'	36:DA:1219:G:H5'	1.99	0.44
36:DA:1292:U:H2'	36:DA:1293:C:C5	2.52	0.44
36:DA:1328:G:N2	36:DA:1647:G:H1	2.16	0.44
36:DA:1370:C:C2	36:DA:1371:G:C8	3.05	0.44
36:DA:1771:C:C5	36:DA:1772:G:N7	2.86	0.44
36:DA:1856:G:H1	36:DA:1886:C:H42	1.64	0.44
36:DA:2023:G:H8	36:DA:2023:G:P	2.40	0.44
36:DA:2435:A:C2'	36:DA:2436:G:O5'	2.65	0.44
36:DA:2649:U:O2'	36:DA:2650:U:H5'	2.17	0.44
36:DA:2675:A:N3	36:DA:2675:A:H2'	2.32	0.44
36:DA:2786:U:C4	36:DA:2787:C:C5	3.05	0.44
36:DA:2851:A:C2'	36:DA:2852:G:H5'	2.47	0.44
37:DB:44:G:H3'	42:DG:96:ARG:NH2	2.32	0.44
37:DB:56:G:HO2'	37:DB:57:A:P	2.39	0.44
37:DB:56:G:O2'	37:DB:57:A:P	2.75	0.44
39:DD:83:GLU:O	39:DD:92:ILE:HD13	2.17	0.44
41:DF:182:ASN:ND2	41:DF:185:ASP:OD2	2.50	0.44
42:DG:107:LEU:HD23	42:DG:107:LEU:N	2.32	0.44
42:DG:127:GLY:O	42:DG:128:ARG:C	2.55	0.44
42:DG:161:THR:HG21	42:DG:172:LEU:CD1	2.47	0.44
46:DN:128:HIS:CD2	46:DN:130:HIS:CE1	3.05	0.44
48:DP:23:PRO:CG	48:DP:33:ARG:NE	2.80	0.44
48:DP:97:PRO:O	48:DP:99:LEU:N	2.42	0.44
49:DQ:92:GLY:C	49:DQ:93:TYR:CD1	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:10:ARG:HA	53:DU:13:LYS:CG	2.46	0.44
53:DU:55:ARG:HA	53:DU:58:ARG:HG3	1.99	0.44
53:DU:66:ASN:HA	53:DU:69:CYS:SG	2.57	0.44
53:DU:83:LEU:HD12	53:DU:83:LEU:N	2.31	0.44
54:DV:31:ALA:O	54:DV:61:VAL:HG13	2.17	0.44
55:DW:6:ILE:HG22	55:DW:7:ALA:H	1.80	0.44
55:DW:11:ARG:O	55:DW:11:ARG:NE	2.49	0.44
58:DZ:84:GLU:HB3	58:DZ:85:HIS:H	1.57	0.44
58:DZ:151:HIS:HA	58:DZ:171:ILE:CG1	2.46	0.44
1:AA:59:A:C5'	1:AA:60:A:H5''	2.46	0.44
1:AA:148:G:H2'	1:AA:149:A:H8	1.82	0.44
1:AA:245:C:O2'	1:AA:246:A:P	2.75	0.44
1:AA:439:A:C8	1:AA:496:A:N1	2.86	0.44
1:AA:766:A:H2'	1:AA:767:A:O4'	2.17	0.44
1:AA:830:G:C6	1:AA:831:U:C4	3.06	0.44
1:AA:927:G:H8	1:AA:927:G:C5'	2.29	0.44
1:AA:948:C:OP1	13:AM:107:ALA:HA	2.17	0.44
1:AA:977:A:H62	1:AA:1223:C:H2'	1.82	0.44
1:AA:1030:C:N4	1:AA:1032:G:N2	2.66	0.44
1:AA:1103:C:H2'	1:AA:1104:G:O4'	2.17	0.44
2:AB:57:PHE:CE2	2:AB:199:TYR:HE1	2.36	0.44
2:AB:71:VAL:O	2:AB:164:VAL:HA	2.17	0.44
2:AB:179:LYS:C	2:AB:181:PHE:H	2.20	0.44
4:AD:10:ARG:C	4:AD:11:LEU:HD23	2.38	0.44
6:AF:37:VAL:CG1	6:AF:38:GLU:H	2.29	0.44
7:AG:50:ILE:O	7:AG:54:THR:O	2.36	0.44
8:AH:65:TYR:N	8:AH:65:TYR:CD1	2.85	0.44
11:AK:30:VAL:HG23	11:AK:30:VAL:O	2.18	0.44
11:AK:32:ILE:HG22	11:AK:33:THR:N	2.31	0.44
11:AK:57:THR:OG1	11:AK:58:PRO:CD	2.60	0.44
13:AM:15:VAL:CG2	13:AM:16:ASP:N	2.81	0.44
15:AO:37:ASN:N	15:AO:37:ASN:ND2	2.66	0.44
16:AP:35:LYS:HE2	16:AP:37:GLY:N	2.33	0.44
19:AS:35:SER:C	19:AS:37:ARG:H	2.19	0.44
19:AS:60:VAL:HG22	19:AS:61:TYR:O	2.17	0.44
20:AT:24:LEU:O	20:AT:27:LYS:N	2.50	0.44
27:B1:4:VAL:CG2	27:B1:5:CYS:H	2.18	0.44
28:B2:4:SER:HA	28:B2:7:ARG:HG3	1.98	0.44
34:B8:22:VAL:CB	34:B8:53:PRO:HB2	2.48	0.44
36:BA:27:G:N2	36:BA:512:G:C2'	2.68	0.44
36:BA:64:A:H2'	36:BA:65:C:C6	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:74:A:C5'	36:BA:75:G:H1'	2.46	0.44
36:BA:531:C:OP1	36:BA:561:G:N1	2.50	0.44
36:BA:654(L):G:H2'	36:BA:654(M):C:H4'	1.98	0.44
36:BA:715:G:C6	36:BA:716:A:C6	3.06	0.44
36:BA:800:A:C5	36:BA:802:A:O4'	2.69	0.44
36:BA:1053:C:H42	36:BA:1108:U:H3	1.66	0.44
36:BA:1174:A:OP1	36:BA:1174:A:H3'	2.18	0.44
36:BA:1292:U:O2'	36:BA:1293:C:H5'	2.17	0.44
36:BA:1678:G:C8	36:BA:1678:G:O5'	2.70	0.44
36:BA:1697:G:H3'	36:BA:1698:A:H5''	1.99	0.44
36:BA:2037:G:H2'	36:BA:2038:G:H8	1.77	0.44
36:BA:2105:C:H2'	36:BA:2106:G:H8	1.82	0.44
36:BA:2159:G:H2'	36:BA:2160:G:C5'	2.46	0.44
36:BA:2308:G:C2	36:BA:2309:A:C6	3.06	0.44
36:BA:2590:A:C2'	36:BA:2591:C:H5'	2.47	0.44
36:BA:2682:U:O2'	52:BT:58:ASN:OD1	2.36	0.44
37:BB:34:U:C4'	37:BB:35:U:H5	2.26	0.44
37:BB:49:C:OP1	51:BS:96:GLY:HA3	2.17	0.44
38:BC:6:ARG:HH11	38:BC:6:ARG:CG	2.25	0.44
38:BC:47:LEU:HD11	38:BC:171:ILE:CG2	2.46	0.44
40:BE:13:ARG:O	52:BT:57:PHE:CE1	2.69	0.44
42:BG:87:PRO:CG	42:BG:88:ILE:N	2.81	0.44
42:BG:97:ASP:O	42:BG:101:ILE:N	2.51	0.44
46:BN:48:MET:HE3	46:BN:48:MET:H	1.83	0.44
48:BP:75:ILE:H	48:BP:75:ILE:CD1	2.27	0.44
52:BT:61:PHE:HD2	52:BT:61:PHE:N	2.14	0.44
52:BT:85:LYS:O	52:BT:86:ILE:C	2.56	0.44
53:BU:90:VAL:HG21	54:BV:47:VAL:HG23	1.99	0.44
53:BU:95:LEU:HD13	54:BV:4:ILE:HG23	1.99	0.44
54:BV:49:THR:CB	54:BV:50:PRO:HD2	2.43	0.44
54:BV:95:LEU:C	54:BV:95:LEU:CD2	2.86	0.44
55:BW:5:ALA:O	55:BW:6:ILE:CB	2.66	0.44
58:BZ:14:LYS:C	58:BZ:16:SER:H	2.21	0.44
58:BZ:86:VAL:HG12	58:BZ:87:ASP:H	1.82	0.44
1:CA:34:C:C1'	12:CL:32:PHE:CE2	3.01	0.44
1:CA:194:C:O2'	20:CT:68:LYS:HD3	2.16	0.44
1:CA:277:C:OP1	17:CQ:41:LYS:HE2	2.17	0.44
1:CA:375:U:C4	1:CA:376:G:N7	2.84	0.44
1:CA:458:C:C4	1:CA:474:G:N2	2.85	0.44
1:CA:516:U:C4	1:CA:517:G:N1	2.85	0.44
1:CA:624:C:H2'	1:CA:625:G:C8	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:694:A:H2'	1:CA:695:A:O4'	2.17	0.44
1:CA:716:A:H1'	11:CK:118:GLY:O	2.17	0.44
1:CA:766:A:H2'	1:CA:767:A:O4'	2.17	0.44
1:CA:778:G:C5	1:CA:779:C:C5	3.05	0.44
1:CA:788:U:H2'	1:CA:789:U:C6	2.53	0.44
1:CA:1058:G:H2'	1:CA:1059:C:C6	2.51	0.44
1:CA:1104:G:H4'	2:CB:111:ARG:HH12	1.81	0.44
1:CA:1111:A:H2'	1:CA:1112:C:C6	2.52	0.44
1:CA:1151:A:H2'	1:CA:1152:A:C8	2.51	0.44
1:CA:1305:G:OP2	1:CA:1305:G:H8	2.00	0.44
1:CA:1413:A:H2	1:CA:1487:G:H22	1.63	0.44
1:CA:1452:C:OP2	1:CA:1456:G:C6	2.70	0.44
1:CA:1516:G:C6	1:CA:1520:G:C6	3.05	0.44
2:CB:162:ILE:HG12	2:CB:163:PHE:N	2.30	0.44
2:CB:167:PRO:O	2:CB:170:GLU:N	2.50	0.44
4:CD:170:VAL:CG1	4:CD:171:GLY:H	2.30	0.44
5:CE:12:LEU:C	5:CE:13:ILE:HG13	2.37	0.44
5:CE:32:VAL:O	5:CE:43:LEU:CD1	2.64	0.44
5:CE:52:PRO:O	5:CE:56:GLN:HB2	2.17	0.44
5:CE:139:LEU:HA	5:CE:142:LEU:HG	2.00	0.44
7:CG:94:ARG:O	7:CG:97:GLN:HB3	2.18	0.44
7:CG:95:ARG:O	7:CG:98:SER:N	2.50	0.44
7:CG:140:ASP:HA	7:CG:143:ARG:HB2	1.99	0.44
8:CH:40:ALA:N	8:CH:45:ILE:HG13	2.32	0.44
10:CJ:12:ASP:C	10:CJ:12:ASP:OD2	2.55	0.44
13:CM:14:ARG:H	13:CM:44:ARG:NH1	2.14	0.44
13:CM:86:CYS:O	13:CM:87:TYR:C	2.53	0.44
19:CS:40:ILE:HD11	19:CS:66:MET:HE3	1.97	0.44
20:CT:71:THR:HG22	20:CT:72:LEU:H	1.83	0.44
24:CY:50:G:C6	24:CY:51:C:N4	2.86	0.44
26:D0:10:THR:HG22	26:D0:11:ARG:N	2.32	0.44
27:D1:50:ARG:HH12	36:DA:2200:C:H5''	1.81	0.44
28:D2:33:MET:HG3	28:D2:37:PHE:HE1	1.79	0.44
28:D2:46:GLN:HB3	28:D2:48:HIS:HE1	1.81	0.44
30:D4:31:ILE:HG22	30:D4:31:ILE:O	2.18	0.44
32:D6:8:LYS:HE3	32:D6:25:LYS:HD2	1.99	0.44
36:DA:88:G:N2	36:DA:89:G:H1'	2.32	0.44
36:DA:525:U:C2'	36:DA:526:A:H5'	2.47	0.44
36:DA:529:A:C5	36:DA:2042:A:C2	3.05	0.44
36:DA:695:G:N2	36:DA:696:G:H1'	2.32	0.44
36:DA:848:G:H2'	36:DA:849:A:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1007:C:O2'	46:DN:108:PRO:HA	2.17	0.44
36:DA:1086:A:O4'	36:DA:1104:C:O2	2.35	0.44
36:DA:1209:G:O3'	36:DA:1212:G:H5'	2.17	0.44
36:DA:1400:G:H2'	36:DA:1401:G:C8	2.52	0.44
36:DA:1836:C:O5'	36:DA:1836:C:H6	2.00	0.44
36:DA:2050:C:H2'	36:DA:2051:A:O4'	2.18	0.44
36:DA:2131:G:H5''	36:DA:2132:U:O5'	2.17	0.44
36:DA:2150:U:H2'	36:DA:2151:G:H8	1.81	0.44
36:DA:2357:U:O2'	36:DA:2359:C:OP2	2.30	0.44
36:DA:2513:G:N1	36:DA:2514:U:C2	2.86	0.44
36:DA:2635:C:H5''	40:DE:78:LEU:HD12	1.98	0.44
37:DB:91:C:OP1	49:DQ:16:ARG:HG3	2.18	0.44
38:DC:10:LEU:HD12	38:DC:32:LEU:HA	1.99	0.44
39:DD:62:TYR:HE1	39:DD:64:ILE:HA	1.81	0.44
43:DH:68:THR:HG22	43:DH:72:ILE:CG1	2.46	0.44
46:DN:10:GLU:OE2	46:DN:11:PRO:HD2	2.18	0.44
48:DP:22:GLY:HA2	48:DP:23:PRO:HD3	1.80	0.44
48:DP:126:VAL:HG13	48:DP:145:PRO:CB	2.46	0.44
50:DR:44:LEU:HD13	50:DR:44:LEU:O	2.18	0.44
52:DT:16:ARG:NH2	52:DT:80:SER:O	2.44	0.44
52:DT:62:THR:HG22	52:DT:75:ILE:CG2	2.42	0.44
53:DU:12:ARG:O	53:DU:16:LYS:HD2	2.17	0.44
53:DU:29:SER:O	53:DU:30:LYS:HD3	2.17	0.44
58:DZ:150:LEU:H	58:DZ:150:LEU:CD2	2.30	0.44
1:AA:105:G:C6	1:AA:106:C:N4	2.84	0.44
1:AA:331:G:H8	1:AA:331:G:O5'	2.00	0.44
1:AA:763:G:H2'	1:AA:764:C:H6	1.82	0.44
1:AA:941:G:N2	1:AA:942:G:H1'	2.32	0.44
1:AA:1177:G:P	9:AI:97:LYS:HZ3	2.39	0.44
1:AA:1409:C:H4'	36:BA:1915:U:O4	2.17	0.44
2:AB:36:ARG:NE	2:AB:36:ARG:HA	2.32	0.44
2:AB:54:THR:O	2:AB:57:PHE:HB3	2.18	0.44
3:AC:77:ILE:HG23	3:AC:84:ILE:HG22	2.00	0.44
3:AC:113:ALA:C	3:AC:115:LEU:N	2.70	0.44
4:AD:121:VAL:O	4:AD:134:ASP:CA	2.65	0.44
4:AD:159:ARG:O	4:AD:160:GLN:C	2.55	0.44
10:AJ:8:LEU:C	10:AJ:9:ARG:HG3	2.38	0.44
13:AM:3:ARG:HH21	13:AM:7:VAL:HG13	1.82	0.44
13:AM:115:LYS:O	13:AM:117:VAL:HG23	2.17	0.44
15:AO:12:ILE:O	15:AO:13:GLN:C	2.55	0.44
17:AQ:6:LEU:O	17:AQ:7:THR:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:31:LEU:HG	18:AR:65:ILE:HD12	1.98	0.44
19:AS:28:LYS:C	19:AS:29:ARG:CG	2.85	0.44
19:AS:41:VAL:O	19:AS:44:MET:HB2	2.18	0.44
20:AT:57:ARG:CZ	20:AT:57:ARG:CB	2.95	0.44
21:AU:5:ASP:C	21:AU:7:ARG:H	2.20	0.44
22:AV:11:C:H42	22:AV:24:G:H1	1.65	0.44
25:AZ:19:HIS:HD2	25:AZ:115:GLN:N	2.15	0.44
25:AZ:241:ARG:HB2	25:AZ:285:ASN:ND2	2.21	0.44
25:AZ:363:MET:O	25:AZ:366:ASP:HB2	2.17	0.44
28:B2:27:GLU:O	28:B2:30:ARG:CB	2.65	0.44
28:B2:47:ASN:O	28:B2:50:ILE:HD13	2.17	0.44
28:B2:49:LYS:HB3	28:B2:49:LYS:NZ	2.31	0.44
28:B2:53:LEU:CA	28:B2:56:GLN:HB2	2.46	0.44
31:B5:33:CYS:SG	31:B5:49:CYS:SG	3.13	0.44
31:B5:38:ALA:HB2	31:B5:48:GLU:HB3	1.94	0.44
31:B5:56:LYS:HE2	31:B5:59:GLU:CD	2.38	0.44
32:B6:20:ASN:HD21	32:B6:42:TRP:H	1.66	0.44
34:B8:4:MET:HE3	34:B8:61:LEU:CD2	2.45	0.44
34:B8:13:ARG:HB2	48:BP:62:LEU:O	2.17	0.44
36:BA:19:C:H5'	36:BA:554:U:OP1	2.18	0.44
36:BA:88:G:N2	36:BA:89:G:H1'	2.32	0.44
36:BA:206:U:H2'	36:BA:207:A:H8	1.82	0.44
36:BA:271(B):C:O2'	36:BA:271(C):C:H5'	2.17	0.44
36:BA:323:G:C8	41:BF:171:PRO:HG3	2.53	0.44
36:BA:412:A:H3'	36:BA:413:C:H6	1.82	0.44
36:BA:605:C:O2'	36:BA:606:U:H5'	2.18	0.44
36:BA:906:G:O2'	49:BQ:67:ARG:NH2	2.51	0.44
36:BA:1131:G:C2	46:BN:75:TYR:HB2	2.53	0.44
36:BA:1372:U:O2'	36:BA:1373:A:H5'	2.17	0.44
36:BA:1427:A:H1'	36:BA:1428:C:C5	2.52	0.44
36:BA:1520:G:H2'	36:BA:1523:U:C5'	2.47	0.44
36:BA:1645:G:OP1	36:BA:1646:C:H5'	2.18	0.44
36:BA:2048:G:H5'	36:BA:2823:A:N1	2.31	0.44
36:BA:2557:G:C2'	36:BA:2558:C:H5'	2.47	0.44
36:BA:2585:U:O2	36:BA:2585:U:O4'	2.35	0.44
36:BA:2600:A:OP2	39:BD:237:GLU:HG3	2.16	0.44
36:BA:2815:C:H2'	36:BA:2816:C:C6	2.52	0.44
39:BD:126:GLN:C	39:BD:193:VAL:HG11	2.35	0.44
39:BD:158:ALA:O	39:BD:161:THR:HG23	2.17	0.44
40:BE:199:ARG:CG	40:BE:200:GLU:N	2.75	0.44
41:BF:157:VAL:O	41:BF:158:THR:HB	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:194:MET:HB3	41:BF:195:ASP:H	1.51	0.44
42:BG:21:ARG:HH22	42:BG:22:ARG:HG2	1.78	0.44
43:BH:84:SER:O	43:BH:85:LYS:HB3	2.18	0.44
43:BH:152:ARG:HG3	43:BH:152:ARG:HH11	1.83	0.44
47:BO:71:ARG:NE	47:BO:105:GLU:OE1	2.50	0.44
47:BO:71:ARG:NH2	47:BO:77:ILE:HG21	2.32	0.44
49:BQ:42:ILE:O	49:BQ:42:ILE:CG2	2.66	0.44
49:BQ:77:LYS:HB3	49:BQ:81:VAL:HG11	1.98	0.44
51:BS:12:PHE:CE1	51:BS:91:PRO:HB3	2.53	0.44
51:BS:104:GLY:C	51:BS:106:ARG:H	2.21	0.44
52:BT:16:ARG:NH2	52:BT:80:SER:O	2.47	0.44
53:BU:80:ILE:O	53:BU:80:ILE:HG22	2.18	0.44
53:BU:83:LEU:O	53:BU:88:ILE:HG12	2.17	0.44
53:BU:85:LYS:HD2	53:BU:117:GLN:HE22	1.81	0.44
57:BY:29:GLU:OE2	57:BY:38:ILE:HG21	2.18	0.44
58:BZ:4:ARG:HB3	58:BZ:58:VAL:O	2.17	0.44
1:CA:59:A:C5'	1:CA:60:A:H5''	2.48	0.44
1:CA:119:A:H5''	1:CA:120:A:C5'	2.48	0.44
1:CA:175:C:H4'	20:CT:25:ARG:CZ	2.46	0.44
1:CA:218:C:C5'	1:CA:470:C:H42	2.31	0.44
1:CA:520:A:OP2	12:CL:51:ALA:HB1	2.17	0.44
1:CA:665:A:N7	1:CA:725:G:N1	2.66	0.44
1:CA:754:C:H3'	1:CA:754:C:O2	2.17	0.44
1:CA:903:G:H2'	1:CA:904:C:C6	2.53	0.44
1:CA:1087:G:H22	1:CA:1099:G:H1'	1.78	0.44
1:CA:1338:G:C6	1:CA:1339:A:C6	3.05	0.44
1:CA:1372:U:H2'	1:CA:1373:G:O5'	2.18	0.44
1:CA:1505:G:C4'	1:CA:1506:U:H5'	2.47	0.44
2:CB:51:LEU:O	2:CB:52:GLU:C	2.55	0.44
2:CB:68:ILE:HG12	2:CB:161:ALA:HB3	1.99	0.44
3:CC:7:PRO:HG3	3:CC:184:TYR:CD1	2.52	0.44
3:CC:187:ALA:O	3:CC:188:LEU:CD2	2.62	0.44
4:CD:200:GLU:O	4:CD:202:LEU:N	2.49	0.44
5:CE:30:ALA:O	5:CE:46:GLY:N	2.41	0.44
5:CE:31:LEU:CD2	5:CE:43:LEU:HD11	2.47	0.44
7:CG:103:TRP:O	7:CG:104:LEU:C	2.56	0.44
9:CI:4:TYR:CE2	9:CI:88:TYR:CB	2.97	0.44
15:CO:5:LYS:C	15:CO:6:GLU:HG3	2.37	0.44
18:CR:64:ARG:O	18:CR:65:ILE:C	2.55	0.44
18:CR:85:LEU:HD12	18:CR:86:VAL:H	1.83	0.44
19:CS:46:GLY:H	19:CS:62:ILE:HG23	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:13:LEU:O	20:CT:16:HIS:N	2.40	0.44
20:CT:45:GLN:NE2	20:CT:46:GLU:HB2	2.32	0.44
24:CY:12:U:H3	24:CY:23:A:H2	1.66	0.44
25:CZ:27:LEU:HD11	25:CZ:31:LEU:HD21	1.98	0.44
25:CZ:35:ALA:O	25:CZ:39:ASN:HB2	2.17	0.44
25:CZ:222:LEU:CD2	25:CZ:244:ARG:HH21	2.31	0.44
29:D3:18:ASP:HB2	36:DA:850:C:C5'	2.47	0.44
36:DA:481:G:H2'	36:DA:482:A:OP2	2.18	0.44
36:DA:661:C:H2'	36:DA:662:G:H8	1.80	0.44
36:DA:662:G:H4'	48:DP:19:VAL:O	2.17	0.44
36:DA:800:A:C5	36:DA:802:A:O4'	2.71	0.44
36:DA:956:G:OP1	49:DQ:87:LYS:HG3	2.18	0.44
36:DA:1251:C:P	53:DU:10:ARG:HE	2.40	0.44
36:DA:1415:U:H3	36:DA:1587:A:H61	1.65	0.44
36:DA:1468:C:H2'	36:DA:1469:A:C8	2.52	0.44
36:DA:1761:C:C2'	36:DA:1762:A:H8	2.31	0.44
36:DA:1788:C:H2'	36:DA:1789:A:O4'	2.17	0.44
36:DA:1993:U:C5'	40:DE:128:SER:HB3	2.47	0.44
36:DA:2055:C:H2'	36:DA:2504:U:C4'	2.48	0.44
36:DA:2228:G:H2'	36:DA:2229:C:C6	2.53	0.44
36:DA:2247:A:H2'	36:DA:2248:C:C6	2.53	0.44
36:DA:2307:G:H21	36:DA:2308:G:H5'	1.82	0.44
36:DA:2333:A:C1'	36:DA:2335:A:C5	3.00	0.44
36:DA:2466:C:HO2'	36:DA:2467:C:H5'	1.81	0.44
37:DB:104:U:H2'	37:DB:105:A:H8	1.81	0.44
37:DB:106:G:C5'	58:DZ:31:ARG:HB3	2.48	0.44
38:DC:62:VAL:O	38:DC:160:ARG:HA	2.18	0.44
39:DD:30:GLU:OE1	39:DD:63:ARG:HD3	2.17	0.44
39:DD:112:GLN:O	39:DD:115:GLN:HB2	2.17	0.44
39:DD:264:LYS:O	39:DD:267:SER:OG	2.35	0.44
40:DE:9:VAL:O	40:DE:9:VAL:CG2	2.65	0.44
41:DF:175:THR:C	41:DF:176:LEU:HD12	2.37	0.44
43:DH:121:ILE:HG23	43:DH:133:VAL:CG1	2.48	0.44
43:DH:163:TYR:O	43:DH:164:TYR:O	2.35	0.44
46:DN:12:ARG:HG2	46:DN:50:ASP:OD2	2.16	0.44
46:DN:38:HIS:O	53:DU:67:ALA:HB1	2.17	0.44
47:DO:71:ARG:NE	47:DO:105:GLU:OE1	2.50	0.44
48:DP:39:LYS:HE2	48:DP:42:SER:CB	2.34	0.44
50:DR:20:LEU:O	50:DR:24:GLN:HG3	2.18	0.44
50:DR:79:LEU:HD13	50:DR:80:PHE:N	2.32	0.44
50:DR:103:ARG:HH11	50:DR:110:PRO:CD	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:32:TYR:CG	52:DT:33:LYS:N	2.85	0.44
53:DU:83:LEU:O	53:DU:88:ILE:HG12	2.17	0.44
54:DV:95:LEU:HD23	54:DV:96:ILE:N	2.32	0.44
55:DW:80:PRO:O	55:DW:100:THR:CG2	2.66	0.44
57:DY:33:LYS:C	57:DY:35:TYR:H	2.19	0.44
57:DY:37:VAL:CG2	57:DY:38:ILE:N	2.66	0.44
1:AA:141:A:H2'	1:AA:142:G:O4'	2.18	0.44
1:AA:266:G:C5'	1:AA:267:C:C5	3.01	0.44
1:AA:409:G:OP1	4:AD:22:LYS:HB3	2.17	0.44
1:AA:471:G:O2'	1:AA:472:A:H5'	2.18	0.44
1:AA:518:C:H2'	1:AA:530:G:N3	2.33	0.44
1:AA:687:A:H2	1:AA:700:G:N3	2.15	0.44
1:AA:858:G:C5'	1:AA:858:G:H8	2.31	0.44
1:AA:859:A:C4	1:AA:860:A:C8	3.05	0.44
1:AA:954:G:O2'	13:AM:120:LYS:HD2	2.18	0.44
1:AA:955:U:O2	1:AA:1225:A:N1	2.50	0.44
1:AA:1069:C:H42	1:AA:1106:G:H1	1.64	0.44
1:AA:1151:A:H2'	1:AA:1152:A:C8	2.52	0.44
1:AA:1452:C:H5'	1:AA:1456:G:N3	2.32	0.44
2:AB:19:HIS:O	2:AB:20:GLU:C	2.56	0.44
2:AB:92:TYR:C	2:AB:92:TYR:HD1	2.20	0.44
2:AB:104:ASN:O	2:AB:105:PHE:C	2.55	0.44
9:AI:76:ALA:O	9:AI:77:ILE:C	2.56	0.44
9:AI:96:LEU:O	9:AI:99:LEU:O	2.36	0.44
9:AI:99:LEU:O	9:AI:101:PHE:N	2.49	0.44
10:AJ:44:VAL:HG12	10:AJ:44:VAL:O	2.16	0.44
11:AK:33:THR:HA	11:AK:38:ASN:O	2.18	0.44
13:AM:118:ALA:CB	22:AV:29:G:H5''	2.45	0.44
14:AN:12:ARG:HB3	14:AN:14:PRO:CD	2.47	0.44
25:AZ:300:ARG:HG2	25:AZ:300:ARG:NH1	2.32	0.44
27:B1:25:LYS:HB2	36:BA:388:G:H5'	2.00	0.44
27:B1:30:VAL:O	27:B1:31:GLY:O	2.36	0.44
28:B2:3:LEU:O	28:B2:6:VAL:HB	2.18	0.44
32:B6:6:ARG:HB3	32:B6:6:ARG:CZ	2.45	0.44
34:B8:42:ARG:O	34:B8:44:LYS:N	2.49	0.44
36:BA:537:C:N4	36:BA:556:G:N1	2.57	0.44
36:BA:635:C:O2'	36:BA:639:U:OP1	2.36	0.44
36:BA:696:G:N3	36:BA:696:G:C2'	2.79	0.44
36:BA:821:A:C5'	36:BA:822:U:C6	3.01	0.44
36:BA:1006:C:H2'	36:BA:1007:C:H6	1.82	0.44
36:BA:1131:G:N7	36:BA:2025:C:H4'	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1453:U:OP1	50:BR:77:ARG:HD3	2.17	0.44
36:BA:1542:A:H5'	36:BA:1543:C:OP2	2.18	0.44
36:BA:1678:G:N2	36:BA:1989:G:H1	2.15	0.44
36:BA:1814:G:C4'	39:BD:51:VAL:HG21	2.47	0.44
36:BA:1887:C:C3'	36:BA:1888:G:C5'	2.95	0.44
36:BA:1890:A:H2	36:BA:2235:G:O4'	2.00	0.44
36:BA:1899:G:H21	36:BA:1902:C:N4	2.08	0.44
36:BA:1902:C:O2'	39:BD:244:ARG:CB	2.64	0.44
36:BA:2348:U:O2'	36:BA:2349:G:H5'	2.16	0.44
36:BA:2392:A:H2'	36:BA:2393:A:O4'	2.18	0.44
36:BA:2633:G:C5'	36:BA:2812:G:H5'	2.48	0.44
37:BB:76:G:H5''	58:BZ:15:PRO:CB	2.47	0.44
39:BD:85:ASP:CG	39:BD:88:ARG:HH11	2.21	0.44
40:BE:12:THR:OG1	40:BE:13:ARG:N	2.50	0.44
41:BF:89:VAL:HG12	41:BF:90:PHE:N	2.32	0.44
42:BG:100:TRP:O	42:BG:101:ILE:C	2.55	0.44
42:BG:152:LEU:N	42:BG:152:LEU:HD23	2.32	0.44
42:BG:172:LEU:O	42:BG:176:LEU:HD12	2.17	0.44
46:BN:103:VAL:O	46:BN:106:MET:N	2.50	0.44
47:BO:25:LEU:HD11	47:BO:40:VAL:HG22	2.00	0.44
47:BO:105:GLU:HA	47:BO:108:GLU:OE1	2.18	0.44
48:BP:36:LYS:CB	48:BP:41:ARG:CB	2.96	0.44
49:BQ:45:GLN:HE21	49:BQ:45:GLN:N	2.12	0.44
50:BR:44:LEU:HD13	50:BR:44:LEU:O	2.17	0.44
51:BS:12:PHE:N	51:BS:12:PHE:HD2	2.16	0.44
53:BU:55:ARG:HG2	53:BU:58:ARG:HD2	1.99	0.44
53:BU:109:LEU:O	53:BU:113:ALA:N	2.50	0.44
55:BW:11:ARG:HH12	55:BW:98:LYS:HB3	1.75	0.44
57:BY:28:LYS:HA	57:BY:38:ILE:HG22	1.99	0.44
57:BY:81:LYS:CD	57:BY:97:ARG:O	2.57	0.44
58:BZ:168:GLU:HA	58:BZ:168:GLU:OE2	2.18	0.44
1:CA:51:A:C6	1:CA:353:A:C2	3.05	0.44
1:CA:136:C:H2'	1:CA:137:C:H6	1.82	0.44
1:CA:232:G:H2'	1:CA:233:C:O4'	2.17	0.44
1:CA:545:C:O2'	1:CA:546:G:H5'	2.18	0.44
1:CA:805:C:C2	1:CA:806:C:C5	3.05	0.44
1:CA:1202:G:H4'	14:CN:29:ARG:CD	2.43	0.44
1:CA:1298:C:H2'	7:CG:114:ARG:HH12	1.82	0.44
1:CA:1320:C:H5'	1:CA:1320:C:H6	1.82	0.44
1:CA:1508:G:C2'	1:CA:1509:C:H5'	2.48	0.44
5:CE:136:MET:O	5:CE:137:GLU:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:136:MET:C	5:CE:138:ALA:N	2.67	0.44
7:CG:50:ILE:O	7:CG:54:THR:O	2.35	0.44
7:CG:95:ARG:O	7:CG:97:GLN:N	2.51	0.44
9:CI:10:ARG:HE	9:CI:10:ARG:CA	2.30	0.44
9:CI:80:GLY:C	9:CI:82:ALA:H	2.20	0.44
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD22	2.00	0.44
11:CK:89:ALA:C	11:CK:91:ARG:H	2.21	0.44
11:CK:90:GLY:O	11:CK:93:GLN:N	2.51	0.44
13:CM:13:LYS:HA	13:CM:44:ARG:HD2	1.99	0.44
13:CM:118:ALA:HB3	22:CV:29:G:H5''	2.00	0.44
15:CO:12:ILE:O	15:CO:13:GLN:C	2.55	0.44
16:CP:6:LEU:HB3	16:CP:17:TYR:HB3	2.00	0.44
16:CP:12:LYS:O	16:CP:14:ASN:N	2.51	0.44
19:CS:15:LEU:HD22	19:CS:15:LEU:HA	1.89	0.44
22:CW:1:G:N3	22:CW:1:G:C2'	2.78	0.44
25:CZ:226:GLU:CD	25:CZ:240:GLY:HA2	2.38	0.44
26:D0:84:LEU:HD12	26:D0:84:LEU:H	1.83	0.44
28:D2:24:LEU:HD23	28:D2:24:LEU:C	2.37	0.44
31:D5:36:CYS:HB3	31:D5:49:CYS:CB	2.38	0.44
36:DA:271(K):U:H2'	36:DA:271(M):G:N2	2.32	0.44
36:DA:680:G:C2	36:DA:798:G:N3	2.86	0.44
36:DA:841:A:C6	36:DA:938:G:N1	2.85	0.44
36:DA:1090:U:H2'	36:DA:1091:G:O4'	2.18	0.44
36:DA:1174:A:OP1	36:DA:1174:A:H3'	2.17	0.44
36:DA:1354:A:H3'	36:DA:1355:G:H8	1.83	0.44
36:DA:1593:G:C2	36:DA:1594:G:C8	3.05	0.44
36:DA:1658:C:OP1	40:DE:132:HIS:CE1	2.71	0.44
36:DA:1697:G:H5''	36:DA:1979:C:OP1	2.16	0.44
36:DA:1796:U:OP1	39:DD:276:LYS:HE3	2.17	0.44
36:DA:2043:C:H2'	36:DA:2044:C:C6	2.52	0.44
36:DA:2070:G:N2	36:DA:2442:C:H1'	2.33	0.44
36:DA:2078:C:C4	36:DA:2079:U:C4	3.06	0.44
36:DA:2271:G:O2'	36:DA:2272:U:H5'	2.17	0.44
36:DA:2464:C:O2'	36:DA:2465:C:H6	1.86	0.44
36:DA:2582:G:N2	36:DA:2583:G:H1'	2.33	0.44
36:DA:2748:A:H2'	36:DA:2748:A:N3	2.33	0.44
36:DA:2821:A:H2'	36:DA:2822:G:O4'	2.17	0.44
38:DC:106:GLY:O	38:DC:107:TRP:HB3	2.18	0.44
40:DE:52:LEU:O	40:DE:74:PRO:CB	2.66	0.44
40:DE:56:PRO:O	40:DE:57:LYS:CB	2.66	0.44
40:DE:69:LYS:C	40:DE:71:GLY:H	2.19	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:31:HIS:HB2	48:DP:13:ASN:OD1	2.18	0.44
42:DG:112:PRO:CG	42:DG:113:ARG:N	2.81	0.44
42:DG:121:ASN:HA	42:DG:122:PRO:HD2	1.89	0.44
49:DQ:48:GLU:HG3	49:DQ:51:ARG:HG2	1.99	0.44
49:DQ:77:LYS:HD3	49:DQ:81:VAL:CG1	2.48	0.44
49:DQ:113:GLN:O	49:DQ:116:GLU:HB3	2.17	0.44
51:DS:14:VAL:O	51:DS:15:ARG:C	2.54	0.44
51:DS:74:ALA:O	51:DS:76:LYS:N	2.50	0.44
52:DT:11:GLU:O	52:DT:14:TYR:CE1	2.71	0.44
52:DT:48:ILE:HD12	52:DT:48:ILE:H	1.83	0.44
52:DT:66:VAL:HG12	52:DT:71:GLY:HA2	1.99	0.44
54:DV:47:VAL:O	54:DV:48:GLY:C	2.55	0.44
55:DW:59:VAL:HG12	55:DW:60:ASN:N	2.33	0.44
58:DZ:12:GLY:O	58:DZ:13:GLU:HG2	2.18	0.44
58:DZ:151:HIS:ND1	58:DZ:152:ALA:N	2.66	0.44
1:AA:29:G:O2'	1:AA:30:U:H5'	2.17	0.44
1:AA:128:G:O2'	17:AQ:3:LYS:HE2	2.17	0.44
1:AA:189:G:N1	1:AA:189(L):G:C6	2.86	0.44
1:AA:282:A:H2'	1:AA:282:A:N3	2.33	0.44
1:AA:490:G:N1	1:AA:491:G:C5	2.85	0.44
1:AA:570:G:H1'	1:AA:820:U:C4	2.52	0.44
1:AA:673:G:N2	1:AA:674:G:C2	2.85	0.44
1:AA:681:C:O5'	1:AA:681:C:H6	2.00	0.44
1:AA:682:G:N1	1:AA:683:G:C5	2.86	0.44
1:AA:794:A:H2'	1:AA:795:C:C6	2.53	0.44
1:AA:975:A:H61	10:AJ:48:THR:HB	1.81	0.44
1:AA:982:U:C5	1:AA:983:A:N6	2.86	0.44
1:AA:1067:A:H4'	1:AA:1068:G:O5'	2.18	0.44
1:AA:1262:C:H42	1:AA:1273:G:H1	1.66	0.44
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.32	0.44
1:AA:1431:C:O2	1:AA:1432:G:O4'	2.36	0.44
2:AB:207:ALA:O	2:AB:208:ILE:C	2.56	0.44
2:AB:215:LEU:O	2:AB:218:ALA:HB3	2.17	0.44
2:AB:221:LEU:HD13	2:AB:221:LEU:O	2.18	0.44
3:AC:182:ILE:O	3:AC:183:ASP:C	2.55	0.44
4:AD:159:ARG:HG3	4:AD:159:ARG:NH1	2.32	0.44
5:AE:110:LEU:O	5:AE:115:VAL:HG23	2.17	0.44
9:AI:26:VAL:HG12	9:AI:27:THR:N	2.33	0.44
11:AK:65:ALA:HB1	11:AK:98:LEU:CD2	2.47	0.44
12:AL:89:ARG:CD	12:AL:91:LYS:HE2	2.44	0.44
15:AO:25:THR:O	15:AO:26:GLU:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:66:LEU:CG	18:AR:70:ILE:HD11	2.39	0.44
19:AS:22:LEU:HD13	19:AS:27:GLU:HB2	1.99	0.44
19:AS:51:VAL:HG21	19:AS:71:LEU:HB3	2.00	0.44
24:AY:29:C:H2'	24:AY:30:C:O4'	2.18	0.44
25:AZ:38:GLU:OE2	25:AZ:39:ASN:ND2	2.51	0.44
25:AZ:253:VAL:HG22	25:AZ:265:THR:O	2.18	0.44
30:B4:14:ILE:H	30:B4:14:ILE:CD1	2.31	0.44
31:B5:37:LYS:HE3	31:B5:37:LYS:HB2	1.84	0.44
36:BA:45:C:O2'	36:BA:47:C:H5'	2.18	0.44
36:BA:64:A:H2'	36:BA:65:C:H6	1.82	0.44
36:BA:90:U:O2	36:BA:90:U:C2'	2.65	0.44
36:BA:239:U:H2'	36:BA:240:G:O4'	2.17	0.44
36:BA:272(J):C:C2'	36:BA:274:G:H5''	2.46	0.44
36:BA:414:C:H5''	36:BA:1879:C:O2'	2.16	0.44
36:BA:530:G:OP2	36:BA:530:G:H2'	2.18	0.44
36:BA:552:G:H1'	36:BA:1220:A:C6	2.53	0.44
36:BA:587:C:N3	36:BA:671:C:C6	2.86	0.44
36:BA:746:A:O2'	36:BA:2611:U:O2'	2.25	0.44
36:BA:760:G:H2'	36:BA:761:A:O4'	2.17	0.44
36:BA:834:C:H2'	36:BA:835:A:H8	1.83	0.44
36:BA:908:C:OP2	49:BQ:22:LYS:HG2	2.17	0.44
36:BA:955:C:O2'	36:BA:956:G:H5'	2.16	0.44
36:BA:1188:U:C2'	36:BA:1189:A:H5'	2.47	0.44
36:BA:1196:C:H2'	36:BA:1197:G:H8	1.83	0.44
36:BA:1277:G:H2'	36:BA:1278:A:O4'	2.16	0.44
36:BA:1328:G:N2	36:BA:1647:G:H1	2.15	0.44
36:BA:1367:A:C2'	36:BA:1368:G:H5'	2.45	0.44
36:BA:1368:G:O2'	36:BA:1369:G:H5'	2.18	0.44
36:BA:1477:A:H2'	36:BA:1478:G:O4'	2.18	0.44
36:BA:1520:G:H2'	36:BA:1523:U:H5'	2.00	0.44
36:BA:1651:G:C2'	36:BA:1652:A:H5'	2.48	0.44
36:BA:2104:G:O6	36:BA:2185:C:N3	2.50	0.44
36:BA:2197:U:O2'	36:BA:2198:A:H2'	2.18	0.44
36:BA:2527:C:N4	36:BA:2536:G:O6	2.50	0.44
36:BA:2636:U:H1'	36:BA:2783:G:H22	1.82	0.44
36:BA:2760:C:H2'	36:BA:2761:G:C5'	2.41	0.44
37:BB:64:C:H2'	37:BB:65:C:O4'	2.17	0.44
37:BB:96:U:H2'	37:BB:97:G:C8	2.52	0.44
38:BC:62:VAL:O	38:BC:160:ARG:HA	2.18	0.44
39:BD:118:VAL:CG2	39:BD:119:ALA:N	2.81	0.44
39:BD:158:ALA:O	39:BD:159:ALA:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:221:VAL:O	39:BD:221:VAL:CG2	2.65	0.44
40:BE:44:TYR:O	40:BE:45:THR:CB	2.60	0.44
40:BE:126:PRO:C	40:BE:128:SER:N	2.71	0.44
41:BF:155:LEU:CD1	41:BF:176:LEU:HD22	2.45	0.44
41:BF:169:ASN:O	41:BF:170:LEU:O	2.35	0.44
41:BF:181:LEU:HD11	41:BF:186:ILE:CD1	2.37	0.44
43:BH:89:ILE:O	43:BH:129:THR:HB	2.17	0.44
47:BO:120:GLU:HB2	52:BT:68:TYR:HE2	1.83	0.44
49:BQ:35:VAL:HG23	49:BQ:101:ARG:O	2.18	0.44
50:BR:12:ARG:HD3	50:BR:16:HIS:NE2	2.32	0.44
54:BV:4:ILE:O	54:BV:39:LEU:HD22	2.17	0.44
55:BW:12:ILE:O	55:BW:13:SER:C	2.54	0.44
57:BY:73:ARG:HE	57:BY:73:ARG:CA	2.28	0.44
58:BZ:74:VAL:O	58:BZ:75:ASN:C	2.55	0.44
58:BZ:132:ASN:C	58:BZ:134:PRO:HD3	2.38	0.44
1:CA:44:G:H1'	1:CA:399:G:N2	2.33	0.44
1:CA:113:G:C2	1:CA:315:A:C2	3.05	0.44
1:CA:342:C:O2'	1:CA:343:U:H5'	2.18	0.44
1:CA:397:A:N7	1:CA:547:A:H2'	2.32	0.44
1:CA:428:G:O4'	1:CA:430:A:C8	2.70	0.44
1:CA:967:C:H4'	9:CI:125:TYR:CE2	2.53	0.44
1:CA:982:U:C5	1:CA:983:A:N6	2.86	0.44
1:CA:990:C:H2'	1:CA:991:U:C6	2.53	0.44
1:CA:1048:G:C2	1:CA:1050:G:N7	2.85	0.44
1:CA:1162:C:C2	1:CA:1175:G:C2	3.06	0.44
1:CA:1192:C:H2'	1:CA:1193:G:O5'	2.17	0.44
1:CA:1194:U:H4'	5:CE:22:GLY:HA2	1.99	0.44
1:CA:1353:G:C6	1:CA:1354:C:N4	2.86	0.44
1:CA:1366:C:OP1	9:CI:117:HIS:HE1	2.01	0.44
1:CA:1452:C:OP2	1:CA:1456:G:C5	2.71	0.44
1:CA:1499:A:H2'	1:CA:1500:A:O4'	2.18	0.44
2:CB:8:LYS:CE	2:CB:217:ARG:NH2	2.81	0.44
2:CB:22:LYS:CE	2:CB:40:HIS:HE1	2.30	0.44
2:CB:62:ALA:C	2:CB:64:ARG:H	2.20	0.44
2:CB:92:TYR:OH	2:CB:150:SER:HB3	2.16	0.44
2:CB:114:ARG:HD2	2:CB:118:LEU:HD11	2.00	0.44
2:CB:142:LEU:O	2:CB:146:GLN:N	2.49	0.44
3:CC:101:LEU:HD23	3:CC:102:ASN:O	2.18	0.44
4:CD:34:GLU:O	4:CD:35:ARG:CB	2.66	0.44
4:CD:55:ALA:O	4:CD:58:LEU:N	2.48	0.44
8:CH:41:ARG:C	8:CH:43:GLY:H	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:60:LEU:C	12:CL:62:SER:N	2.71	0.44
13:CM:23:TYR:HB3	13:CM:67:GLU:CB	2.47	0.44
13:CM:74:VAL:HG12	13:CM:75:ALA:N	2.32	0.44
13:CM:84:ILE:HB	19:CS:74:PHE:HD1	1.82	0.44
13:CM:90:LEU:O	13:CM:92:HIS:N	2.49	0.44
13:CM:98:VAL:O	13:CM:98:VAL:HG12	2.18	0.44
14:CN:19:ARG:O	14:CN:20:ALA:C	2.56	0.44
19:CS:37:ARG:HD3	19:CS:37:ARG:O	2.18	0.44
20:CT:73:HIS:O	20:CT:74:LYS:C	2.56	0.44
20:CT:84:LEU:O	20:CT:88:VAL:HG23	2.18	0.44
22:CV:18:G:H4'	22:CV:60:U:C2	2.53	0.44
22:CW:30:G:O2'	22:CW:31:A:H5'	2.17	0.44
22:CW:54:U:C5'	38:DC:54:SER:HB2	2.48	0.44
24:CY:7:A:HO2'	24:CY:49:G:H8	1.64	0.44
25:CZ:382:GLU:HA	25:CZ:400:VAL:CG1	2.48	0.44
26:D0:37:LEU:HG	26:D0:59:LEU:C	2.38	0.44
28:D2:28:LYS:HA	28:D2:28:LYS:HD3	1.76	0.44
28:D2:38:GLN:HB3	28:D2:44:LEU:CD2	2.47	0.44
32:D6:12:GLU:CB	32:D6:23:THR:HG22	2.48	0.44
34:D8:10:ALA:O	34:D8:13:ARG:N	2.50	0.44
36:DA:93:G:H2'	36:DA:94:C:C6	2.53	0.44
36:DA:206:U:H2'	36:DA:207:A:C8	2.52	0.44
36:DA:251:A:H2'	36:DA:252:G:H5'	2.00	0.44
36:DA:272(J):C:C2'	36:DA:274:G:H5''	2.47	0.44
36:DA:391:G:O5'	36:DA:391:G:C8	2.70	0.44
36:DA:548:A:C2'	36:DA:549:G:H5'	2.47	0.44
36:DA:693:C:O2'	36:DA:694:U:H5'	2.17	0.44
36:DA:858:U:H1'	36:DA:2268:A:O2'	2.17	0.44
36:DA:884:C:N3	36:DA:893:C:N3	2.65	0.44
36:DA:948:G:C6	36:DA:949:C:C4	3.05	0.44
36:DA:1238:G:N2	36:DA:1239:G:H1'	2.32	0.44
36:DA:1339:G:N2	36:DA:1603:A:N3	2.65	0.44
36:DA:1475:G:C2	36:DA:1517:G:N3	2.85	0.44
36:DA:1494:A:O2'	36:DA:1495:A:H5''	2.17	0.44
36:DA:1769:G:C1'	36:DA:1958:C:H5''	2.48	0.44
36:DA:2455:G:N1	36:DA:2498:C:N4	2.65	0.44
36:DA:2593:U:C2	36:DA:2594:C:C5	3.06	0.44
36:DA:2603:G:C5	36:DA:2604:U:C5	3.06	0.44
36:DA:2704:C:H2'	36:DA:2705:A:O4'	2.16	0.44
36:DA:2836:U:H2'	36:DA:2837:G:C8	2.53	0.44
38:DC:207:THR:H	38:DC:210:ARG:HH12	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:155:LEU:HD23	39:DD:177:LEU:HD22	2.00	0.44
40:DE:62:PRO:C	40:DE:64:LYS:N	2.68	0.44
41:DF:7:TYR:HD2	41:DF:16:GLY:CA	2.30	0.44
42:DG:145:THR:HG22	42:DG:147:ASP:N	2.32	0.44
42:DG:170:ARG:HE	42:DG:174:GLU:HB2	1.82	0.44
43:DH:152:ARG:HG3	43:DH:152:ARG:HH11	1.83	0.44
46:DN:39:ARG:O	46:DN:41:ASP:N	2.47	0.44
48:DP:58:THR:C	48:DP:61:ARG:HE	2.16	0.44
52:DT:121:ILE:C	52:DT:123:GLN:N	2.71	0.44
54:DV:20:LEU:H	54:DV:20:LEU:CD1	2.26	0.44
54:DV:91:TYR:HD1	54:DV:92:THR:N	2.15	0.44
1:AA:10:A:C2	1:AA:11:G:N7	2.86	0.44
1:AA:310:G:H2'	1:AA:311:C:C6	2.53	0.44
1:AA:360:A:O2'	1:AA:361:G:H5'	2.18	0.44
1:AA:552:U:C2	1:AA:553:A:C8	3.06	0.44
1:AA:836:G:H2'	1:AA:837:G:H8	1.83	0.44
1:AA:1057:G:H3'	1:AA:1058:G:H8	1.83	0.44
1:AA:1073:U:H3	1:AA:1102:A:N6	2.15	0.44
1:AA:1254:C:H2'	1:AA:1255:G:H8	1.83	0.44
1:AA:1377:A:H2'	7:AG:7:ALA:CB	2.47	0.44
1:AA:1430:C:O2	1:AA:1471:G:C2	2.71	0.44
1:AA:1494:G:O3'	13:AM:125:ARG:NH1	2.51	0.44
1:AA:1523:G:H2'	1:AA:1524:C:H6	1.83	0.44
2:AB:92:TYR:HD1	2:AB:93:VAL:N	2.15	0.44
2:AB:97:TRP:HZ2	2:AB:102:LEU:HD13	1.81	0.44
2:AB:157:ARG:CZ	2:AB:157:ARG:CB	2.95	0.44
3:AC:182:ILE:HA	3:AC:202:ILE:O	2.17	0.44
8:AH:7:ALA:HB2	8:AH:85:ARG:CD	2.37	0.44
8:AH:29:SER:O	8:AH:32:LYS:N	2.50	0.44
8:AH:70:GLN:O	8:AH:71:GLY:O	2.36	0.44
9:AI:58:HIS:O	9:AI:58:HIS:CG	2.71	0.44
9:AI:116:LYS:HA	9:AI:123:PRO:HD3	1.99	0.44
11:AK:108:ILE:HB	18:AR:87:ARG:HA	1.98	0.44
18:AR:36:ASN:OD1	18:AR:39:VAL:HB	2.18	0.44
18:AR:73:ALA:HB1	18:AR:79:LEU:HD12	1.99	0.44
19:AS:20:LEU:HD23	19:AS:20:LEU:HA	1.65	0.44
24:AY:48:C:H5'	24:AY:50:G:OP2	2.18	0.44
25:AZ:126:VAL:HG12	25:AZ:126:VAL:O	2.17	0.44
25:AZ:176:LEU:CB	62:AZ:501:GDP:C6	3.00	0.44
25:AZ:331:HIS:CD2	25:AZ:332:THR:HG23	2.53	0.44
25:AZ:364:PRO:C	25:AZ:366:ASP:N	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B0:63:VAL:HG23	26:B0:63:VAL:O	2.18	0.44
27:B1:82:LEU:C	27:B1:83:GLU:CG	2.85	0.44
29:B3:8:LEU:CD2	29:B3:8:LEU:O	2.66	0.44
36:BA:406:G:H2'	36:BA:407:G:H8	1.82	0.44
36:BA:420:C:H2'	36:BA:421:U:C6	2.52	0.44
36:BA:529:A:H4'	36:BA:530:G:O5'	2.17	0.44
36:BA:569:U:C4	36:BA:570:G:C6	3.06	0.44
36:BA:575:A:C2'	36:BA:576:U:H5'	2.48	0.44
36:BA:694:U:HO2'	36:BA:695:G:P	2.41	0.44
36:BA:718:A:O5'	36:BA:718:A:H8	2.01	0.44
36:BA:793:A:OP2	36:BA:2072:G:H5'	2.18	0.44
36:BA:945:A:H4'	36:BA:945:A:OP2	2.17	0.44
36:BA:1168:G:N1	36:BA:1182:A:C6	2.86	0.44
36:BA:1269:A:N6	36:BA:2011:U:H3	2.14	0.44
36:BA:1297:C:O2'	36:BA:1298:C:H5'	2.18	0.44
36:BA:1412:A:O2'	36:BA:1413:G:H5'	2.17	0.44
36:BA:1435:G:H2'	36:BA:1436:G:C8	2.53	0.44
36:BA:1476:C:H2'	36:BA:1477:A:C8	2.53	0.44
36:BA:1652:A:N6	36:BA:1653:G:N2	2.65	0.44
36:BA:1822:G:C5	36:BA:1823:G:N7	2.86	0.44
36:BA:1862:G:N2	36:BA:1881:C:O2	2.50	0.44
36:BA:2026:C:N4	36:BA:2037:G:H1	2.15	0.44
36:BA:2164:C:H2'	36:BA:2165:G:H5'	1.99	0.44
36:BA:2305:A:H1'	42:BG:136:ARG:HG3	1.98	0.44
36:BA:2540:C:H2'	36:BA:2541:A:O4'	2.18	0.44
36:BA:2580:U:H3'	36:BA:2581:G:N3	2.33	0.44
36:BA:2721:A:C2'	36:BA:2722:G:H8	2.27	0.44
36:BA:2744:G:C2	36:BA:2761:G:C4	3.05	0.44
36:BA:2870:C:O2'	36:BA:2871:C:H5'	2.18	0.44
38:BC:91:ALA:HB3	38:BC:94:VAL:CG2	2.48	0.44
39:BD:17:THR:OG1	39:BD:205:VAL:N	2.41	0.44
39:BD:127:VAL:HA	39:BD:193:VAL:HG13	2.00	0.44
39:BD:239:ARG:HG2	39:BD:239:ARG:NH2	2.28	0.44
41:BF:43:LYS:CB	41:BF:98:SER:HB3	2.46	0.44
41:BF:158:THR:HG23	41:BF:160:ASN:H	1.82	0.44
42:BG:32:PRO:HG3	42:BG:168:GLU:OE1	2.18	0.44
42:BG:82:LEU:HD22	42:BG:87:PRO:HG3	1.99	0.44
42:BG:87:PRO:HG2	42:BG:88:ILE:N	2.27	0.44
43:BH:50:VAL:HG12	43:BH:51:ARG:N	2.32	0.44
43:BH:107:VAL:O	43:BH:109:PHE:N	2.51	0.44
45:BK:20:UNK:HA	45:BK:24:UNK:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:24:GLY:HA2	46:BN:27:ALA:HB3	1.99	0.44
46:BN:35:ARG:O	46:BN:35:ARG:CG	2.60	0.44
46:BN:131:GLN:NE2	46:BN:133:GLN:N	2.65	0.44
47:BO:8:LEU:HD22	47:BO:19:ILE:HG13	2.00	0.44
50:BR:22:ARG:O	50:BR:26:LYS:HB2	2.18	0.44
51:BS:29:PHE:HD2	51:BS:29:PHE:C	2.20	0.44
53:BU:59:ARG:O	53:BU:61:TRP:N	2.51	0.44
54:BV:62:LEU:CD2	54:BV:95:LEU:HB2	2.46	0.44
55:BW:73:ALA:HB3	55:BW:106:ILE:HD11	2.00	0.44
56:BX:39:ILE:CG2	56:BX:54:VAL:HG11	2.41	0.44
1:CA:45:U:H2'	1:CA:46:G:H8	1.82	0.44
1:CA:141:A:H2'	1:CA:142:G:O4'	2.18	0.44
1:CA:686:U:C2'	1:CA:687:A:H8	2.29	0.44
1:CA:691:G:H2'	1:CA:692:U:H6	1.83	0.44
1:CA:797:C:OP1	11:CK:124:LYS:CE	2.62	0.44
1:CA:901:A:C6	1:CA:902:G:H1'	2.53	0.44
1:CA:961:U:H5'	1:CA:984:C:H1'	1.99	0.44
1:CA:995:C:O2'	1:CA:996:A:O5'	2.33	0.44
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.53	0.44
1:CA:1126:U:H2'	1:CA:1127:G:O4'	2.17	0.44
1:CA:1141:C:H2'	1:CA:1142:G:C8	2.52	0.44
1:CA:1175:G:C6	1:CA:1176:A:C6	3.06	0.44
1:CA:1176:A:H2'	1:CA:1177:G:C8	2.53	0.44
1:CA:1430:C:H2'	1:CA:1431:C:C6	2.53	0.44
2:CB:111:ARG:HH11	2:CB:111:ARG:HG2	1.82	0.44
4:CD:150:GLU:CD	4:CD:151:LYS:N	2.70	0.44
4:CD:156:GLU:O	4:CD:159:ARG:HB2	2.18	0.44
6:CF:39:LYS:HB2	6:CF:64:GLN:CB	2.48	0.44
6:CF:39:LYS:HB2	6:CF:64:GLN:HB3	2.00	0.44
7:CG:91:VAL:O	7:CG:92:SER:C	2.56	0.44
10:CJ:7:LYS:H	10:CJ:97:GLU:HB2	1.82	0.44
10:CJ:35:SER:O	10:CJ:36:GLY:C	2.56	0.44
10:CJ:50:ILE:HG23	10:CJ:60:ARG:HD3	2.00	0.44
13:CM:106:ASN:O	13:CM:107:ALA:CB	2.65	0.44
15:CO:74:ASP:OD2	15:CO:76:GLU:N	2.47	0.44
15:CO:76:GLU:C	15:CO:78:TYR:H	2.21	0.44
16:CP:21:VAL:C	16:CP:22:THR:HG22	2.38	0.44
16:CP:45:THR:C	16:CP:47:ASP:N	2.68	0.44
17:CQ:88:TYR:OH	17:CQ:92:ARG:CZ	2.66	0.44
18:CR:25:THR:CG2	18:CR:42:ARG:HH11	2.31	0.44
19:CS:20:LEU:HD23	19:CS:20:LEU:HA	1.67	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:2:C:H2'	22:CV:3:C:C6	2.53	0.44
25:CZ:163:PHE:O	25:CZ:165:GLY:N	2.44	0.44
26:D0:41:ARG:HD2	26:D0:41:ARG:HA	1.76	0.44
26:D0:63:VAL:O	26:D0:63:VAL:HG23	2.18	0.44
27:D1:63:ALA:O	27:D1:64:ALA:C	2.55	0.44
32:D6:23:THR:HG21	36:DA:2419:U:H4'	2.00	0.44
32:D6:35:GLU:HB3	32:D6:51:GLU:OE1	2.18	0.44
36:DA:211:A:H2'	36:DA:212:G:C8	2.53	0.44
36:DA:572:A:H3'	36:DA:573:G:O4'	2.18	0.44
36:DA:591:C:H2'	36:DA:592:G:C8	2.53	0.44
36:DA:832:G:P	48:DP:40:SER:HB2	2.57	0.44
36:DA:939:G:C4	36:DA:940:G:C8	3.06	0.44
36:DA:1006:C:H42	36:DA:1137:G:H1	1.66	0.44
36:DA:1027:A:N3	36:DA:1027:A:C2'	2.77	0.44
36:DA:1131:G:H21	46:DN:73:THR:HG22	1.83	0.44
36:DA:1192:G:C5	48:DP:29:LYS:NZ	2.85	0.44
36:DA:1427:A:H1'	36:DA:1428:C:C5	2.51	0.44
36:DA:1678:G:N2	36:DA:1989:G:H1	2.15	0.44
36:DA:1678:G:N2	36:DA:1989:G:H22	2.15	0.44
36:DA:2205:C:C2	36:DA:2220:G:N1	2.85	0.44
36:DA:2521:C:O2	36:DA:2521:C:H2'	2.17	0.44
36:DA:2562:U:H2'	36:DA:2563:U:C5'	2.47	0.44
36:DA:2572:A:P	40:DE:144:ARG:HB2	2.58	0.44
36:DA:2683:C:H42	36:DA:2727:G:H21	1.64	0.44
36:DA:2778:A:O2'	36:DA:2780:G:O2'	2.35	0.44
37:DB:56:G:O2'	37:DB:57:A:OP2	2.25	0.44
38:DC:207:THR:HB	38:DC:210:ARG:NH1	2.32	0.44
39:DD:2:ALA:N	39:DD:200:ASP:OD2	2.51	0.44
39:DD:138:VAL:HA	39:DD:165:ILE:HG21	2.00	0.44
40:DE:4:ILE:CG1	40:DE:5:LEU:N	2.80	0.44
40:DE:82:ARG:NH1	40:DE:82:ARG:CG	2.79	0.44
41:DF:10:PRO:HD2	41:DF:13:SER:O	2.18	0.44
41:DF:126:VAL:HG21	41:DF:129:PHE:CZ	2.53	0.44
42:DG:11:TYR:CD1	42:DG:15:VAL:HG21	2.51	0.44
42:DG:32:PRO:C	42:DG:33:ARG:HG3	2.38	0.44
42:DG:33:ARG:C	42:DG:161:THR:HB	2.38	0.44
42:DG:138:GLN:OE1	42:DG:153:ARG:N	2.47	0.44
42:DG:152:LEU:HG	42:DG:152:LEU:O	2.18	0.44
42:DG:161:THR:C	42:DG:163:ALA:N	2.71	0.44
44:DJ:23:UNK:CB	44:DJ:92:UNK:CB	2.96	0.44
46:DN:57:ALA:CB	46:DN:124:ALA:HA	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:120:LEU:HD13	46:DN:120:LEU:C	2.38	0.44
49:DQ:20:ALA:N	58:DZ:79:ARG:NH2	2.55	0.44
49:DQ:78:PRO:O	49:DQ:79:LEU:C	2.55	0.44
51:DS:15:ARG:HH11	51:DS:18:ILE:HD11	1.83	0.44
55:DW:76:VAL:CB	55:DW:103:ILE:HG23	2.48	0.44
57:DY:8:LYS:CE	57:DY:72:VAL:HG23	2.47	0.44
57:DY:63:LYS:HG2	57:DY:64:GLU:N	2.33	0.44
57:DY:88:LYS:HD2	57:DY:88:LYS:N	2.32	0.44
58:DZ:56:VAL:C	58:DZ:57:ILE:HD12	2.36	0.44
1:AA:16:A:H2	1:AA:1080:A:N3	2.15	0.44
1:AA:119:A:H5''	1:AA:120:A:H5'	1.99	0.44
1:AA:258:G:O2'	1:AA:259:G:H5'	2.17	0.44
1:AA:405:U:C3'	1:AA:406:G:H5'	2.37	0.44
1:AA:428:G:O4'	1:AA:430:A:C8	2.71	0.44
1:AA:544:G:OP1	4:AD:59:ARG:NH2	2.49	0.44
1:AA:686:U:H1'	11:AK:42:TRP:HE1	1.82	0.44
1:AA:1071:C:N3	1:AA:1105:A:C2	2.86	0.44
1:AA:1111:A:H2'	1:AA:1112:C:C6	2.53	0.44
1:AA:1221:G:N2	1:AA:1222:G:H1'	2.32	0.44
1:AA:1228:C:H6	1:AA:1228:C:H3'	1.83	0.44
1:AA:1239:A:C4	1:AA:1241:G:C2	3.06	0.44
1:AA:1250:A:H5'	9:AI:67:GLY:HA2	2.00	0.44
1:AA:1487:G:H2'	1:AA:1488:G:O5'	2.18	0.44
2:AB:86:GLU:C	2:AB:88:ALA:H	2.21	0.44
2:AB:200:ILE:CG2	2:AB:202:PRO:HD3	2.47	0.44
3:AC:18:TRP:N	3:AC:18:TRP:CE3	2.85	0.44
4:AD:61:LYS:O	4:AD:62:GLN:C	2.56	0.44
4:AD:150:GLU:O	4:AD:152:SER:N	2.51	0.44
4:AD:200:GLU:O	4:AD:204:ILE:HG13	2.17	0.44
5:AE:38:GLN:OE1	5:AE:38:GLN:HA	2.17	0.44
7:AG:16:LEU:HD12	9:AI:41:VAL:O	2.17	0.44
9:AI:86:VAL:O	9:AI:90:PRO:HA	2.18	0.44
13:AM:79:LYS:HB3	13:AM:82:MET:SD	2.58	0.44
16:AP:14:ASN:HA	16:AP:42:ARG:CZ	2.46	0.44
19:AS:15:LEU:O	19:AS:19:VAL:HG23	2.17	0.44
24:AY:77:THR:HG22	25:AZ:239:THR:HG22	2.00	0.44
25:AZ:169:PRO:HG2	25:AZ:209:TYR:CD2	2.53	0.44
25:AZ:223:MET:HE3	25:AZ:224:PRO:O	2.18	0.44
25:AZ:223:MET:O	25:AZ:223:MET:CE	2.64	0.44
25:AZ:371:THR:HG22	25:AZ:372:VAL:N	2.32	0.44
28:B2:59:ARG:CA	36:BA:76:C:O2'	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B3:2:PRO:O	29:B3:3:ARG:C	2.56	0.44
31:B5:7:PRO:HA	36:BA:2615:U:N3	2.33	0.44
32:B6:22:ALA:HB2	32:B6:39:TYR:CZ	2.53	0.44
33:B7:46:VAL:HG12	33:B7:48:LYS:NZ	2.32	0.44
36:BA:54:G:H8	36:BA:54:G:O5'	2.01	0.44
36:BA:176:G:C5	36:BA:177:G:C6	3.05	0.44
36:BA:310:A:O2'	36:BA:311:A:O5'	2.36	0.44
36:BA:531:C:O2'	36:BA:563:G:H5''	2.18	0.44
36:BA:563:G:O2'	36:BA:564:C:H5'	2.18	0.44
36:BA:606:U:H6	36:BA:606:U:H3'	1.82	0.44
36:BA:654:A:C8	36:BA:654(V):A:H4'	2.52	0.44
36:BA:687:C:O2	36:BA:788:A:H5'	2.18	0.44
36:BA:747:U:H4'	55:BW:89:ALA:HB3	2.00	0.44
36:BA:757:U:H3'	36:BA:757:U:H6	1.83	0.44
36:BA:1203:G:O2'	36:BA:1242:A:N6	2.50	0.44
36:BA:1217:C:C2	36:BA:1218:C:C5	3.05	0.44
36:BA:1224:C:N4	36:BA:1225:G:C6	2.86	0.44
36:BA:1666:G:N2	36:BA:1995:U:C2	2.86	0.44
36:BA:1800:C:H42	36:BA:1817:G:N2	2.16	0.44
36:BA:1826:G:O2'	36:BA:1827:C:H5'	2.18	0.44
36:BA:1865:G:H5'	36:BA:1866:C:OP2	2.17	0.44
36:BA:1902:C:C2'	39:BD:244:ARG:HB2	2.48	0.44
36:BA:1923:U:O2'	36:BA:1924:C:H5'	2.18	0.44
36:BA:2015:A:C2'	36:BA:2016:U:H5'	2.47	0.44
36:BA:2064:C:H2'	36:BA:2065:C:H6	1.79	0.44
36:BA:2156:G:N2	36:BA:2157:G:H21	2.15	0.44
36:BA:2222:G:C4	36:BA:2223:G:C8	3.05	0.44
36:BA:2247:A:H2'	36:BA:2248:C:C6	2.53	0.44
36:BA:2612:C:C5	36:BA:2613:U:H5	2.36	0.44
36:BA:2740:A:H2'	36:BA:2741:A:C8	2.52	0.44
36:BA:2843:G:C2	36:BA:2875:C:N4	2.86	0.44
38:BC:42:GLU:OE1	38:BC:216:THR:O	2.36	0.44
39:BD:26:LYS:O	39:BD:27:THR:HG22	2.18	0.44
39:BD:92:ILE:HG13	39:BD:104:TYR:CD2	2.52	0.44
39:BD:193:VAL:HG13	39:BD:193:VAL:O	2.18	0.44
40:BE:68:ALA:C	40:BE:70:ALA:H	2.21	0.44
41:BF:107:LYS:O	41:BF:110:LEU:N	2.45	0.44
41:BF:110:LEU:HD12	41:BF:206:ILE:CD1	2.48	0.44
42:BG:138:GLN:C	42:BG:140:ILE:H	2.20	0.44
46:BN:1:MET:C	46:BN:1:MET:SD	2.96	0.44
47:BO:86:ILE:CG2	47:BO:94:ARG:HB2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:48:PRO:O	48:BP:49:ARG:O	2.35	0.44
48:BP:95:VAL:HG13	48:BP:123:LEU:HD12	1.99	0.44
50:BR:44:LEU:HD13	50:BR:48:VAL:HB	1.99	0.44
51:BS:13:ARG:HG2	51:BS:13:ARG:NH1	2.32	0.44
51:BS:15:ARG:NH1	51:BS:18:ILE:HD11	2.32	0.44
57:BY:38:ILE:HD13	57:BY:66:PRO:HG3	1.99	0.44
58:BZ:79:ARG:O	58:BZ:81:ARG:N	2.50	0.44
58:BZ:86:VAL:C	58:BZ:87:ASP:OD1	2.56	0.44
58:BZ:151:HIS:HA	58:BZ:171:ILE:HG12	1.99	0.44
1:CA:304:U:O2'	1:CA:305:G:H5'	2.17	0.44
1:CA:471:G:OP1	1:CA:471:G:H3'	2.18	0.44
1:CA:499:A:C2	1:CA:547:A:C4	3.06	0.44
1:CA:637:G:O2'	1:CA:638:G:H5'	2.18	0.44
1:CA:966:G:O2'	1:CA:967:C:O5'	2.36	0.44
1:CA:1128:C:N4	1:CA:1139:G:H2'	2.33	0.44
1:CA:1177:G:P	9:CI:97:LYS:HZ1	2.38	0.44
1:CA:1269:A:C2	1:CA:1313:U:H1'	2.53	0.44
1:CA:1412:C:OP1	12:CL:57:LYS:HE2	2.18	0.44
1:CA:1430:C:C2	1:CA:1471:G:N2	2.86	0.44
3:CC:113:ALA:HB3	3:CC:114:PRO:HD3	1.99	0.44
3:CC:147:LYS:O	3:CC:203:PHE:CD2	2.66	0.44
5:CE:135:THR:O	5:CE:136:MET:C	2.56	0.44
6:CF:28:ARG:O	6:CF:31:GLU:HB2	2.17	0.44
7:CG:27:ILE:O	7:CG:28:ASN:C	2.56	0.44
12:CL:41:ARG:HH12	12:CL:57:LYS:HZ1	1.66	0.44
12:CL:50:SER:O	12:CL:51:ALA:HB2	2.17	0.44
14:CN:17:LYS:HG3	14:CN:18:VAL:N	2.33	0.44
17:CQ:27:PHE:CD1	17:CQ:27:PHE:C	2.91	0.44
19:CS:10:PHE:HE1	19:CS:70:LYS:HD2	1.82	0.44
25:CZ:104:LEU:CD1	25:CZ:120:ILE:HD11	2.48	0.44
25:CZ:137:LYS:O	25:CZ:138:VAL:C	2.55	0.44
25:CZ:163:PHE:C	25:CZ:165:GLY:H	2.20	0.44
25:CZ:362:VAL:HG11	25:CZ:368:VAL:HG22	1.99	0.44
27:D1:20:ARG:HB2	27:D1:33:LYS:O	2.17	0.44
27:D1:94:LEU:C	27:D1:96:LYS:N	2.71	0.44
28:D2:25:VAL:O	28:D2:27:GLU:N	2.51	0.44
29:D3:7:LYS:C	29:D3:54:VAL:HG13	2.37	0.44
30:D4:16:CYS:SG	30:D4:36:CYS:SG	3.15	0.44
31:D5:13:LYS:HZ1	36:DA:516:C:P	2.41	0.44
34:D8:3:LYS:HD3	36:DA:242:G:H5''	1.99	0.44
34:D8:6:THR:HG21	34:D8:11:LYS:NZ	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:13:A:H2	36:DA:14:A:N6	2.15	0.44
36:DA:74:A:C5'	36:DA:75:G:H1'	2.46	0.44
36:DA:573:G:C5'	36:DA:575:A:N7	2.81	0.44
36:DA:596:G:C6	36:DA:597:U:C4	3.05	0.44
36:DA:609:A:H2'	36:DA:610:G:O4'	2.18	0.44
36:DA:753:C:H2'	36:DA:754:C:H6	1.83	0.44
36:DA:958:U:OP2	49:DQ:14:ARG:NH1	2.50	0.44
36:DA:1027:A:O2'	36:DA:1028:A:H5'	2.16	0.44
36:DA:1060:U:OP1	36:DA:1060:U:H6	2.01	0.44
36:DA:1113:U:H2'	36:DA:1114:G:C8	2.53	0.44
36:DA:1186:G:H8	36:DA:1186:G:O5'	2.01	0.44
36:DA:1487:G:C4	36:DA:1488:G:C8	3.05	0.44
36:DA:1515:G:H2'	36:DA:1516:C:C6	2.53	0.44
36:DA:1662:C:H2'	36:DA:1663:C:C6	2.53	0.44
36:DA:1878:G:O2'	36:DA:1879:C:H5'	2.18	0.44
36:DA:2133:G:H3'	36:DA:2133:G:C8	2.53	0.44
36:DA:2425:A:H5''	36:DA:2427:C:O4'	2.18	0.44
36:DA:2582:G:H21	36:DA:2583:G:C1'	2.31	0.44
36:DA:2690:C:C5'	36:DA:2872:G:H21	2.31	0.44
37:DB:13:A:C2	37:DB:70:C:O4'	2.70	0.44
39:DD:79:VAL:HB	39:DD:114:GLY:H	1.83	0.44
39:DD:158:ALA:C	39:DD:196:VAL:HG11	2.38	0.44
39:DD:213:ARG:HD2	39:DD:213:ARG:HA	1.67	0.44
40:DE:171:GLU:O	40:DE:173:VAL:N	2.51	0.44
41:DF:39:TRP:CE2	41:DF:43:LYS:HE2	2.52	0.44
41:DF:49:ALA:HB1	41:DF:92:PRO:HB3	2.00	0.44
46:DN:26:LEU:CD1	46:DN:30:ILE:HD11	2.33	0.44
48:DP:36:LYS:CB	48:DP:41:ARG:CB	2.94	0.44
50:DR:24:GLN:O	50:DR:25:ALA:C	2.54	0.44
50:DR:67:LEU:HD13	50:DR:70:LEU:O	2.17	0.44
52:DT:85:LYS:O	52:DT:86:ILE:C	2.56	0.44
53:DU:91:ASP:O	53:DU:92:ARG:HB3	2.17	0.44
57:DY:8:LYS:HB2	57:DY:28:LYS:CE	2.47	0.44
58:DZ:19:ARG:HB2	58:DZ:82:ARG:NH2	2.33	0.44
58:DZ:129:SER:HA	58:DZ:130:PRO:HD3	1.62	0.44
1:AA:157:G:H2'	1:AA:158:G:C8	2.45	0.44
1:AA:668:G:C2	1:AA:739:C:C2	3.06	0.44
1:AA:719:C:C5	1:AA:720:C:C4	3.05	0.44
1:AA:738:C:H2'	1:AA:739:C:C6	2.53	0.44
1:AA:764:C:H2'	1:AA:765:G:C8	2.52	0.44
1:AA:977:A:H61	1:AA:1224:G:P	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1087:G:H8	1:AA:1087:G:O5'	2.01	0.44
1:AA:1281:U:H3'	1:AA:1282:C:H6	1.83	0.44
1:AA:1303:C:C2	1:AA:1304:G:C8	3.06	0.44
1:AA:1318:A:C1'	19:AS:37:ARG:HH21	2.30	0.44
1:AA:1439:C:H2'	1:AA:1440:C:O4'	2.17	0.44
1:AA:1505:G:H2'	23:AX:18:G:OP2	2.18	0.44
2:AB:19:HIS:O	2:AB:20:GLU:O	2.36	0.44
2:AB:41:ILE:HD12	2:AB:41:ILE:N	2.33	0.44
3:AC:101:LEU:HD23	3:AC:101:LEU:C	2.38	0.44
5:AE:24:ARG:HG2	5:AE:24:ARG:HH11	1.82	0.44
7:AG:121:ALA:O	7:AG:122:HIS:C	2.56	0.44
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.32	0.44
9:AI:36:TYR:O	9:AI:37:PHE:CD2	2.71	0.44
10:AJ:8:LEU:HD12	10:AJ:8:LEU:N	2.33	0.44
11:AK:111:ASP:HA	18:AR:84:LYS:CD	2.48	0.44
11:AK:116:HIS:O	11:AK:117:ASN:HB2	2.18	0.44
12:AL:33:ARG:HG2	12:AL:60:LEU:HD12	1.99	0.44
13:AM:77:ASN:O	13:AM:81:LEU:HD23	2.18	0.44
15:AO:35:ARG:NH2	15:AO:59:MET:HE1	2.33	0.44
17:AQ:13:ASP:C	17:AQ:15:MET:N	2.70	0.44
18:AR:40:LEU:O	18:AR:42:ARG:N	2.51	0.44
22:AV:1:G:H2'	22:AV:2:C:C6	2.53	0.44
25:AZ:176:LEU:HB2	62:AZ:501:GDP:N7	2.32	0.44
25:AZ:279:GLU:O	25:AZ:280:GLY:C	2.56	0.44
28:B2:6:VAL:CA	28:B2:9:GLN:HB2	2.31	0.44
29:B3:31:LEU:O	36:BA:1158:C:H4'	2.17	0.44
32:B6:11:LEU:HD22	32:B6:12:GLU:N	2.30	0.44
33:B7:39:ARG:HA	36:BA:459:U:OP1	2.17	0.44
36:BA:1169:G:H2'	36:BA:1170:G:O4'	2.17	0.44
36:BA:1355:G:C6	36:BA:1377:G:N2	2.86	0.44
36:BA:1517:G:H8	36:BA:1517:G:H5'	1.82	0.44
36:BA:1909:C:N4	36:BA:1921:G:H1	2.13	0.44
36:BA:2023:G:O2'	36:BA:2024:G:H5'	2.18	0.44
36:BA:2114:A:C2'	36:BA:2115:G:H5'	2.44	0.44
36:BA:2410:G:H2'	36:BA:2411:A:C8	2.49	0.44
36:BA:2512:C:O5'	36:BA:2512:C:H6	2.01	0.44
36:BA:2590:A:O2'	36:BA:2591:C:H5'	2.18	0.44
36:BA:2764:A:H2'	36:BA:2766:G:C8	2.53	0.44
36:BA:2851:A:H2'	36:BA:2852:G:C5'	2.48	0.44
37:BB:60:C:H2'	37:BB:61:G:C8	2.50	0.44
38:BC:23:ASP:OD1	38:BC:190:ARG:NH2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:87:GLU:HG2	38:BC:94:VAL:HG21	2.00	0.44
38:BC:100:ILE:HG21	38:BC:126:LYS:HB2	1.95	0.44
38:BC:207:THR:H	38:BC:210:ARG:HH12	1.65	0.44
39:BD:73:VAL:HG13	39:BD:120:GLY:CA	2.46	0.44
41:BF:33:LEU:HD21	41:BF:112:MET:SD	2.57	0.44
43:BH:33:LEU:HD12	43:BH:75:ALA:CB	2.48	0.44
48:BP:35:HIS:HB3	48:BP:36:LYS:H	1.38	0.44
48:BP:47:ASP:OD1	48:BP:50:ARG:HG2	2.17	0.44
49:BQ:113:GLN:O	49:BQ:116:GLU:HB3	2.18	0.44
49:BQ:132:VAL:HG11	58:BZ:81:ARG:CD	2.47	0.44
51:BS:32:LEU:O	51:BS:62:LYS:HE3	2.18	0.44
51:BS:77:ALA:O	51:BS:80:LEU:N	2.47	0.44
51:BS:87:PHE:CG	51:BS:88:ASP:N	2.86	0.44
52:BT:70:VAL:HG12	52:BT:71:GLY:O	2.18	0.44
53:BU:22:LYS:HA	53:BU:22:LYS:HD3	1.72	0.44
53:BU:88:ILE:CB	53:BU:90:VAL:HG23	2.48	0.44
54:BV:52:VAL:O	54:BV:54:GLY:N	2.51	0.44
58:BZ:154:ASP:N	58:BZ:154:ASP:OD2	2.51	0.44
1:CA:32:A:H1'	1:CA:48:C:N4	2.33	0.44
1:CA:429:U:H1'	1:CA:430:A:H5''	1.99	0.44
1:CA:458:C:N3	1:CA:474:G:N2	2.66	0.44
1:CA:585:G:O2'	1:CA:879:C:H5''	2.17	0.44
1:CA:625:G:H2'	1:CA:626:U:C6	2.53	0.44
1:CA:739:C:C4	1:CA:740:U:C5	3.06	0.44
1:CA:913:A:H1'	1:CA:914:A:O4'	2.17	0.44
1:CA:919:A:O2'	1:CA:1080:A:N6	2.49	0.44
1:CA:963:G:O2'	1:CA:1199:U:H5''	2.18	0.44
1:CA:993:G:N1	1:CA:1046:A:C4	2.86	0.44
1:CA:1057:G:H3'	1:CA:1058:G:C8	2.53	0.44
1:CA:1069:C:C2'	1:CA:1070:U:O5'	2.66	0.44
1:CA:1376:U:H2'	1:CA:1377:A:H8	1.78	0.44
1:CA:1377:A:H2'	7:CG:7:ALA:HB2	1.99	0.44
1:CA:1409:C:H4'	36:DA:1915:U:O4	2.17	0.44
2:CB:207:ALA:O	2:CB:208:ILE:C	2.57	0.44
2:CB:223:ILE:O	2:CB:224:GLN:C	2.56	0.44
3:CC:6:HIS:HD2	3:CC:7:PRO:CD	2.31	0.44
4:CD:79:PHE:CE2	4:CD:207:TYR:CD1	3.06	0.44
7:CG:35:LYS:O	7:CG:37:ASN:N	2.51	0.44
16:CP:30:GLY:O	16:CP:31:LYS:C	2.56	0.44
20:CT:53:LEU:O	20:CT:56:MET:N	2.51	0.44
25:CZ:26:THR:O	25:CZ:29:ALA:N	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:67:ILE:H	27:D1:68:PRO:HD2	1.74	0.44
28:D2:3:LEU:C	28:D2:3:LEU:HD23	2.38	0.44
28:D2:7:ARG:HH11	28:D2:7:ARG:CG	2.30	0.44
29:D3:12:PRO:CG	29:D3:13:ILE:H	2.28	0.44
30:D4:9:LEU:CB	42:DG:98:ARG:HH12	2.30	0.44
31:D5:3:LYS:HE3	31:D5:3:LYS:CA	2.37	0.44
31:D5:41:PRO:O	31:D5:44:THR:OG1	2.24	0.44
35:D9:7:VAL:HG13	35:D9:34:GLN:HB3	2.00	0.44
36:DA:94:C:H3'	36:DA:94(A):G:H8	1.79	0.44
36:DA:126:A:C6	36:DA:127:A:C2	3.06	0.44
36:DA:239:U:H2'	36:DA:240:G:O4'	2.18	0.44
36:DA:250:G:H2'	36:DA:251:A:O4'	2.18	0.44
36:DA:252:G:H2'	36:DA:253:C:H6	1.78	0.44
36:DA:413:C:H2'	36:DA:414:C:C6	2.52	0.44
36:DA:598:G:C4'	48:DP:15:ARG:HB3	2.48	0.44
36:DA:673:C:C2'	36:DA:674:G:H5'	2.47	0.44
36:DA:778:G:C5	36:DA:779:U:C4	3.05	0.44
36:DA:979:G:N2	36:DA:985:C:H42	2.16	0.44
36:DA:1268:A:C8	36:DA:1269:A:C8	3.06	0.44
36:DA:1268:A:N3	36:DA:1269:A:H1'	2.33	0.44
36:DA:1392:A:N7	36:DA:1393:A:C5	2.86	0.44
36:DA:1902:C:C2'	39:DD:244:ARG:HB2	2.47	0.44
36:DA:1908:C:H42	36:DA:1922:G:H1	1.66	0.44
36:DA:2140:C:O2'	36:DA:2141:G:H5'	2.17	0.44
36:DA:2460:U:C5	36:DA:2461:C:C5	3.06	0.44
36:DA:2601:C:H2'	36:DA:2603:G:C8	2.53	0.44
36:DA:2710:C:HO2'	36:DA:2711:A:H5'	1.83	0.44
38:DC:58:VAL:HG22	38:DC:201:PRO:HD3	2.00	0.44
39:DD:85:ASP:CG	39:DD:88:ARG:NH1	2.71	0.44
39:DD:117:VAL:HG22	39:DD:118:VAL:N	2.33	0.44
41:DF:198:ALA:HA	41:DF:201:VAL:HG12	2.00	0.44
42:DG:34:LEU:HD11	42:DG:100:TRP:CH2	2.51	0.44
45:DK:18:UNK:O	45:DK:19:UNK:C	2.64	0.44
49:DQ:50:ALA:C	49:DQ:52:VAL:N	2.69	0.44
50:DR:25:ALA:HB1	50:DR:51:LEU:CD2	2.47	0.44
52:DT:33:LYS:HE2	52:DT:43:GLN:HE21	1.83	0.44
53:DU:14:HIS:HA	53:DU:17:ILE:HD13	1.99	0.44
53:DU:99:ALA:HB2	53:DU:106:PHE:CE1	2.53	0.44
58:DZ:127:LYS:O	58:DZ:127:LYS:HG3	2.17	0.44
1:AA:102:G:C5	1:AA:103:C:C5	3.06	0.43
1:AA:250:A:O4'	1:AA:252:U:C6	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:687:A:H4'	1:AA:688:G:O5'	2.18	0.43
1:AA:738:C:H5''	6:AF:69:GLU:HB2	2.00	0.43
1:AA:928:G:N1	1:AA:1390:U:C2	2.86	0.43
1:AA:939:G:H1	1:AA:1344:C:N4	2.14	0.43
1:AA:991:U:OP2	1:AA:991:U:H6	2.01	0.43
1:AA:1004:A:O5'	1:AA:1025:U:C5	2.70	0.43
1:AA:1157:A:HO2'	1:AA:1158:C:P	2.41	0.43
1:AA:1277:C:O2'	1:AA:1279:A:H8	1.92	0.43
1:AA:1307:U:O5'	1:AA:1307:U:H6	2.01	0.43
1:AA:1492:A:H2	23:AX:23:C:O2	2.00	0.43
2:AB:17:PHE:HD2	2:AB:17:PHE:C	2.21	0.43
2:AB:22:LYS:CE	2:AB:40:HIS:CE1	3.00	0.43
3:AC:95:THR:HG22	3:AC:95:THR:O	2.18	0.43
8:AH:82:HIS:O	8:AH:83:ILE:HB	2.18	0.43
11:AK:12:ARG:HH21	11:AK:14:VAL:CG1	2.31	0.43
11:AK:33:THR:HG21	11:AK:37:GLY:O	2.18	0.43
11:AK:55:LYS:HB2	11:AK:55:LYS:HE3	1.83	0.43
13:AM:19:LEU:HD22	13:AM:19:LEU:N	2.33	0.43
13:AM:74:VAL:O	13:AM:77:ASN:ND2	2.51	0.43
14:AN:25:VAL:CG2	14:AN:38:GLY:O	2.66	0.43
16:AP:53:VAL:O	16:AP:54:GLU:C	2.56	0.43
22:AV:54:U:C2'	22:AV:55:U:H5'	2.48	0.43
22:AW:54:U:H4'	38:BC:54:SER:CB	2.48	0.43
25:AZ:186:PRO:O	25:AZ:187:LYS:CG	2.65	0.43
25:AZ:300:ARG:O	25:AZ:302:GLN:HG3	2.18	0.43
28:B2:34:GLU:O	28:B2:37:PHE:HB2	2.18	0.43
28:B2:57:ILE:HG22	28:B2:61:LEU:CD1	2.48	0.43
29:B3:50:VAL:O	29:B3:52:HIS:N	2.50	0.43
32:B6:35:GLU:CG	32:B6:51:GLU:HG3	2.47	0.43
36:BA:29:U:OP1	36:BA:583:G:H4'	2.18	0.43
36:BA:223:A:H61	36:BA:374:A:H4'	1.82	0.43
36:BA:598:G:C5'	48:BP:15:ARG:HD3	2.32	0.43
36:BA:877:U:O2'	36:BA:878:A:C5'	2.66	0.43
36:BA:936:C:C2	36:BA:937:U:C5	3.06	0.43
36:BA:1050:A:C2	36:BA:2751:G:C5	3.06	0.43
36:BA:1053:C:H2'	36:BA:1054:A:C8	2.53	0.43
36:BA:1131:G:C6	46:BN:75:TYR:CD2	3.06	0.43
36:BA:1279:G:N2	36:BA:1292:U:C2	2.86	0.43
36:BA:1386:C:C6	36:BA:1386:C:C3'	3.01	0.43
36:BA:1431:U:C4	36:BA:1432:C:C4	3.06	0.43
36:BA:1466:G:H5'	36:BA:1467:C:OP1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1600:C:H2'	36:BA:1601:G:H8	1.82	0.43
36:BA:1678:G:N2	36:BA:1989:G:H22	2.16	0.43
36:BA:1884:A:H2'	36:BA:1885:A:H5''	2.00	0.43
36:BA:2173:A:N3	36:BA:2173:A:C3'	2.79	0.43
36:BA:2533:A:H2'	36:BA:2534:A:C5'	2.48	0.43
36:BA:2849:U:H4'	36:BA:2868:A:C2	2.53	0.43
37:BB:13:A:C2	37:BB:70:C:O4'	2.71	0.43
38:BC:198:ALA:C	38:BC:200:LYS:H	2.20	0.43
39:BD:128:GLY:N	39:BD:193:VAL:HG13	2.33	0.43
39:BD:159:ALA:HB1	39:BD:201:HIS:HB3	2.00	0.43
42:BG:57:ALA:CB	42:BG:90:LEU:HD21	2.46	0.43
47:BO:50:GLY:O	47:BO:53:LYS:NZ	2.42	0.43
48:BP:63:PRO:O	48:BP:65:ARG:N	2.51	0.43
48:BP:84:ASN:O	48:BP:86:LYS:N	2.50	0.43
49:BQ:6:ARG:C	49:BQ:7:MET:HG3	2.37	0.43
49:BQ:60:ARG:HA	58:BZ:178:GLU:H	1.82	0.43
49:BQ:141:GLN:OE1	58:BZ:72:ARG:NE	2.51	0.43
51:BS:30:ARG:NH1	51:BS:35:ILE:HB	2.33	0.43
52:BT:111:ARG:HG3	52:BT:111:ARG:O	2.17	0.43
53:BU:10:ARG:CA	53:BU:13:LYS:HG2	2.47	0.43
56:BX:43:VAL:O	56:BX:43:VAL:HG12	2.18	0.43
57:BY:64:GLU:O	57:BY:65:ALA:HB2	2.18	0.43
1:CA:53:A:N1	1:CA:359:U:O2	2.51	0.43
1:CA:78:G:H1	1:CA:91:C:N4	2.15	0.43
1:CA:262:A:N1	1:CA:263:A:C2	2.86	0.43
1:CA:428:G:O2'	1:CA:429:U:P	2.76	0.43
1:CA:830:G:H5''	2:CB:24:TRP:HE1	1.83	0.43
1:CA:876:G:H2'	1:CA:877:C:H6	1.81	0.43
1:CA:1015:A:H2'	1:CA:1016:A:O4'	2.18	0.43
1:CA:1202:G:N3	14:CN:42:ILE:HG21	2.33	0.43
1:CA:1206:G:C6	1:CA:1207:G:C5	3.06	0.43
1:CA:1246:C:O2'	1:CA:1247:U:H5'	2.17	0.43
1:CA:1300:G:O2'	1:CA:1301:U:OP2	2.31	0.43
3:CC:48:TYR:OH	3:CC:122:GLU:HG3	2.17	0.43
5:CE:10:MET:HG2	5:CE:10:MET:O	2.18	0.43
6:CF:6:VAL:HG22	6:CF:90:VAL:HG23	1.99	0.43
6:CF:37:VAL:O	6:CF:38:GLU:CG	2.66	0.43
7:CG:99:LEU:HD22	7:CG:103:TRP:CZ2	2.53	0.43
7:CG:107:ALA:O	7:CG:110:GLN:N	2.51	0.43
8:CH:65:TYR:N	8:CH:65:TYR:CD1	2.86	0.43
8:CH:97:VAL:CG1	8:CH:98:LYS:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:99:LEU:C	9:CI:101:PHE:N	2.72	0.43
10:CJ:53:PRO:C	14:CN:41:ARG:HH22	2.20	0.43
13:CM:10:PRO:O	13:CM:11:ARG:CB	2.51	0.43
13:CM:15:VAL:C	13:CM:17:VAL:N	2.70	0.43
13:CM:36:LYS:C	13:CM:38:GLY:H	2.21	0.43
16:CP:59:TRP:O	16:CP:64:ALA:CB	2.66	0.43
17:CQ:64:PRO:HG3	17:CQ:70:ARG:HG2	2.00	0.43
21:CU:9:ARG:O	21:CU:10:ARG:C	2.55	0.43
22:CV:20:U:C3'	22:CV:21:A:C5'	2.89	0.43
22:CV:49:C:O2'	22:CV:50:U:P	2.76	0.43
24:CY:48:C:H5'	24:CY:50:G:OP2	2.18	0.43
25:CZ:163:PHE:CD1	25:CZ:164:PRO:HD2	2.53	0.43
25:CZ:241:ARG:HG2	25:CZ:242:ILE:N	2.31	0.43
25:CZ:331:HIS:CD2	25:CZ:331:HIS:H	2.36	0.43
25:CZ:363:MET:HB3	25:CZ:364:PRO:HD2	1.99	0.43
26:D0:2:ALA:HB3	36:DA:2602:A:N1	2.33	0.43
27:D1:41:ARG:NH2	36:DA:1365:A:OP1	2.49	0.43
28:D2:51:ARG:HG3	28:D2:52:ASP:N	2.33	0.43
36:DA:150:C:O5'	36:DA:150:C:H6	2.00	0.43
36:DA:178:G:O2'	36:DA:179:G:H5'	2.18	0.43
36:DA:601:C:O5'	36:DA:601:C:H6	2.00	0.43
36:DA:654:A:H4'	36:DA:654(A):G:O5'	2.18	0.43
36:DA:681:G:H1	36:DA:796:C:H42	1.66	0.43
36:DA:699:A:C2'	36:DA:700:G:H5'	2.48	0.43
36:DA:1412:A:O2'	36:DA:1413:G:H5'	2.18	0.43
36:DA:1478:G:N2	36:DA:1479:G:C4	2.86	0.43
36:DA:1853:A:N6	36:DA:1888:G:H2'	2.33	0.43
36:DA:2187:G:N7	36:DA:2188:C:C5	2.86	0.43
36:DA:2283:C:O2'	36:DA:2284:C:H5'	2.17	0.43
36:DA:2565:A:H2'	36:DA:2566:A:O4'	2.18	0.43
36:DA:2776:A:C4'	36:DA:2778:A:H5''	2.48	0.43
36:DA:2814:C:C6	36:DA:2815:C:H5	2.36	0.43
37:DB:44:G:H1'	37:DB:47:C:N4	2.33	0.43
37:DB:60:C:H2'	37:DB:61:G:C8	2.49	0.43
38:DC:1:PRO:O	38:DC:3:HIS:N	2.51	0.43
38:DC:23:ASP:OD1	38:DC:190:ARG:NH2	2.51	0.43
39:DD:211:ARG:HA	39:DD:214:TRP:CD2	2.53	0.43
40:DE:37:ARG:O	40:DE:45:THR:HA	2.17	0.43
40:DE:65:GLY:O	40:DE:66:HIS:C	2.56	0.43
42:DG:121:ASN:ND2	42:DG:124:SER:CB	2.81	0.43
42:DG:138:GLN:HA	42:DG:155:MET:HE3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:48:MET:HE3	46:DN:49:GLY:H	1.83	0.43
46:DN:62:VAL:HG21	46:DN:66:LYS:HB2	2.00	0.43
46:DN:103:VAL:O	46:DN:105:GLY:N	2.51	0.43
48:DP:7:ARG:CB	48:DP:8:PRO:CD	2.93	0.43
48:DP:16:ARG:HH11	48:DP:16:ARG:CA	2.31	0.43
48:DP:48:PRO:O	48:DP:49:ARG:O	2.35	0.43
49:DQ:24:GLY:O	49:DQ:26:TYR:O	2.36	0.43
50:DR:42:LYS:O	50:DR:45:ARG:CB	2.66	0.43
52:DT:100:TYR:CD2	52:DT:103:ARG:NH2	2.85	0.43
54:DV:58:VAL:HB	54:DV:97:LYS:HB2	2.00	0.43
56:DX:12:VAL:HG12	56:DX:27:THR:CA	2.47	0.43
57:DY:16:ALA:O	57:DY:21:LYS:HG3	2.18	0.43
1:AA:100:C:H2'	1:AA:101:A:H8	1.78	0.43
1:AA:232:G:H2'	1:AA:233:C:O4'	2.18	0.43
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.18	0.43
1:AA:353:A:C2'	1:AA:354:G:OP2	2.66	0.43
1:AA:756:C:O2'	1:AA:878:G:N2	2.48	0.43
1:AA:993:G:N3	1:AA:993:G:C2'	2.78	0.43
1:AA:1010:G:H2'	1:AA:1011:G:C8	2.52	0.43
1:AA:1056:U:OP1	3:AC:163:ALA:HB2	2.18	0.43
1:AA:1206:G:C2'	1:AA:1207:G:H5'	2.47	0.43
1:AA:1348:U:O2'	1:AA:1349:A:O5'	2.36	0.43
1:AA:1421:G:C6	1:AA:1422:G:C5	3.06	0.43
3:AC:180:ALA:O	3:AC:181:ASN:HB3	2.18	0.43
8:AH:103:VAL:HG21	8:AH:109:ILE:O	2.17	0.43
11:AK:93:GLN:NE2	11:AK:96:ARG:NH2	2.66	0.43
12:AL:98:TYR:N	12:AL:98:TYR:HD1	2.16	0.43
13:AM:52:GLU:HA	13:AM:55:ARG:CB	2.38	0.43
14:AN:4:LYS:O	14:AN:6:LEU:N	2.51	0.43
16:AP:50:LYS:O	16:AP:51:VAL:CG2	2.66	0.43
16:AP:59:TRP:O	16:AP:64:ALA:CB	2.66	0.43
16:AP:66:PRO:HD2	16:AP:71:ARG:NH1	2.33	0.43
17:AQ:5:VAL:HG22	17:AQ:60:ILE:HA	2.00	0.43
20:AT:36:LEU:HD13	20:AT:36:LEU:C	2.39	0.43
21:AU:7:ARG:O	21:AU:21:TYR:CD2	2.71	0.43
25:AZ:355:LEU:HB3	25:AZ:359:VAL:CB	2.46	0.43
28:B2:38:GLN:OE1	28:B2:44:LEU:CD2	2.65	0.43
29:B3:18:ASP:HB2	36:BA:850:C:C5'	2.48	0.43
35:B9:4:ARG:O	35:B9:36:GLN:HA	2.18	0.43
36:BA:307:G:H21	36:BA:330:A:H62	1.66	0.43
36:BA:329:G:P	57:BY:71:LYS:NZ	2.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:360:G:C4	36:BA:361:G:C8	3.06	0.43
36:BA:425:G:C4	36:BA:426:C:C5	3.06	0.43
36:BA:440:G:H21	41:BF:46:ARG:NH2	2.16	0.43
36:BA:551:G:O2'	36:BA:1220:A:N3	2.41	0.43
36:BA:654:A:H4'	36:BA:654(A):G:C4'	2.48	0.43
36:BA:662:G:H4'	48:BP:19:VAL:O	2.18	0.43
36:BA:833:U:H6	36:BA:833:U:O5'	2.01	0.43
36:BA:859:G:C2	36:BA:2268:A:C2	3.07	0.43
36:BA:896:A:H5'	58:BZ:146:ILE:HD12	1.99	0.43
36:BA:1166:C:H1'	36:BA:1184:G:N2	2.34	0.43
36:BA:1257:C:H4'	41:BF:83:PHE:CD2	2.52	0.43
36:BA:1492:G:N3	36:BA:1499:C:O2	2.51	0.43
36:BA:1494:A:N3	36:BA:1494:A:H5'	2.33	0.43
36:BA:1664:A:H3'	36:BA:1665:A:C8	2.54	0.43
36:BA:1718:G:H5'	36:BA:1718:G:C8	2.47	0.43
36:BA:1750:G:N3	36:BA:2860:A:H2	2.16	0.43
36:BA:1789:A:C5	36:BA:1790:C:C5	3.07	0.43
36:BA:1856:G:H1	36:BA:1886:C:H42	1.67	0.43
36:BA:2023:G:P	36:BA:2023:G:H8	2.40	0.43
36:BA:2052:G:N1	36:BA:2053:G:N7	2.66	0.43
36:BA:2071:A:H8	36:BA:2071:A:OP2	2.01	0.43
36:BA:2123:G:N1	36:BA:2175:C:N3	2.66	0.43
36:BA:2414:G:H21	48:BP:67:MET:CE	2.32	0.43
36:BA:2458:G:C4	36:BA:2490:G:C2	3.06	0.43
36:BA:2698:U:H2'	36:BA:2699:C:C6	2.53	0.43
36:BA:2838:G:H2'	36:BA:2839:G:C8	2.53	0.43
38:BC:100:ILE:HD13	38:BC:126:LYS:HB2	1.99	0.43
39:BD:34:VAL:CG2	39:BD:35:LYS:H	2.23	0.43
39:BD:147:LEU:HD21	39:BD:183:ARG:NH1	2.33	0.43
40:BE:9:VAL:O	40:BE:9:VAL:CG2	2.65	0.43
40:BE:167:VAL:O	40:BE:167:VAL:HG22	2.18	0.43
41:BF:111:ALA:O	41:BF:114:VAL:HB	2.19	0.43
42:BG:21:ARG:NE	42:BG:22:ARG:HA	2.33	0.43
43:BH:61:HIS:O	43:BH:64:LEU:N	2.50	0.43
47:BO:1:MET:HG3	47:BO:67:LYS:HG2	1.99	0.43
48:BP:7:ARG:O	48:BP:10:PRO:HD2	2.18	0.43
48:BP:16:ARG:HG3	48:BP:17:LYS:H	1.83	0.43
51:BS:16:ASN:O	51:BS:18:ILE:N	2.51	0.43
51:BS:36:TYR:CD1	51:BS:36:TYR:N	2.84	0.43
52:BT:27:THR:HA	52:BT:88:ILE:H	1.83	0.43
52:BT:91:ARG:HA	52:BT:117:ASP:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:37:ARG:CG	55:BW:37:ARG:NH1	2.81	0.43
58:BZ:50:GLN:O	58:BZ:52:SER:N	2.51	0.43
58:BZ:72:ARG:O	58:BZ:73:GLN:HB2	2.18	0.43
1:CA:131:C:O2	1:CA:262:A:H2	2.01	0.43
1:CA:258:G:H2'	1:CA:259:G:H8	1.82	0.43
1:CA:581:G:C6	1:CA:758:G:C5	3.06	0.43
1:CA:745:C:H5''	1:CA:851:G:H1'	1.99	0.43
1:CA:790:A:C6	1:CA:791:G:C6	3.06	0.43
1:CA:941:G:N2	1:CA:942:G:H1'	2.33	0.43
1:CA:972:C:H4'	10:CJ:57:LYS:CG	2.40	0.43
1:CA:1096:C:H2'	1:CA:1097:C:H6	1.82	0.43
1:CA:1313:U:C4	1:CA:1314:C:C4	3.06	0.43
1:CA:1507:A:C5	1:CA:1530:G:C2	3.06	0.43
2:CB:14:GLY:O	2:CB:15:VAL:HG22	2.18	0.43
2:CB:97:TRP:HZ2	2:CB:102:LEU:HD13	1.83	0.43
4:CD:3:ARG:HD3	4:CD:5:ILE:HG13	2.00	0.43
4:CD:23:GLY:O	4:CD:27:TYR:HB2	2.18	0.43
4:CD:60:GLU:HB3	4:CD:203:VAL:HG22	2.00	0.43
4:CD:79:PHE:CD2	4:CD:207:TYR:HD1	2.36	0.43
4:CD:175:SER:O	4:CD:176:LEU:HB2	2.18	0.43
8:CH:4:ASP:OD2	8:CH:85:ARG:HD3	2.18	0.43
8:CH:20:TYR:CE2	8:CH:75:ARG:HD2	2.48	0.43
11:CK:27:ASN:HA	11:CK:56:GLY:CA	2.43	0.43
11:CK:66:LEU:O	11:CK:69:ALA:CB	2.60	0.43
12:CL:8:ASN:O	12:CL:12:ARG:HD3	2.17	0.43
13:CM:22:ILE:HD12	13:CM:22:ILE:N	2.33	0.43
13:CM:45:VAL:HA	13:CM:48:LEU:CD1	2.38	0.43
15:CO:34:LEU:HG	15:CO:35:ARG:N	2.32	0.43
22:CW:9:A:C2	22:CW:44:G:N1	2.87	0.43
25:CZ:310:ILE:HD11	25:CZ:381:GLU:CB	2.47	0.43
29:D3:19:GLN:C	29:D3:21:ALA:N	2.71	0.43
31:D5:59:GLU:O	31:D5:59:GLU:HG3	2.18	0.43
34:D8:7:HIS:CD2	48:DP:50:ARG:HD3	2.52	0.43
35:D9:26:ILE:CG2	35:D9:27:CYS:N	2.81	0.43
36:DA:64:A:H2'	36:DA:65:C:H6	1.83	0.43
36:DA:244:A:H3'	36:DA:245:G:C5'	2.49	0.43
36:DA:292:C:C2'	36:DA:293:U:H5'	2.49	0.43
36:DA:321:G:C4	41:DF:165:ARG:HD3	2.53	0.43
36:DA:759:G:H8	36:DA:759:G:O5'	2.01	0.43
36:DA:811:U:C6	48:DP:24:GLY:HA3	2.53	0.43
36:DA:1186:G:H2'	36:DA:1187:G:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1206:G:C2	36:DA:1207:C:C6	3.07	0.43
36:DA:1423:G:H1	36:DA:1575:C:H42	1.65	0.43
36:DA:1432:C:N3	36:DA:1561:G:O6	2.51	0.43
36:DA:1657:C:H2'	36:DA:1658:C:O4'	2.18	0.43
36:DA:1717:G:H2'	36:DA:1718:G:H5''	2.00	0.43
36:DA:1755:A:O2'	36:DA:1756:G:H5'	2.18	0.43
36:DA:1773:A:O2'	36:DA:1774:C:H5'	2.18	0.43
36:DA:2298:A:H62	36:DA:2318:G:H8	1.66	0.43
36:DA:2331:G:O2'	36:DA:2332:U:H5'	2.18	0.43
36:DA:2557:G:C2	36:DA:2558:C:C2	3.06	0.43
36:DA:2612:C:C5	36:DA:2613:U:H5	2.36	0.43
36:DA:2667:C:H2'	36:DA:2668:G:H8	1.83	0.43
36:DA:2758:A:C2	36:DA:2759:G:C1'	3.01	0.43
38:DC:43:VAL:O	38:DC:43:VAL:HG12	2.17	0.43
38:DC:113:VAL:HG11	38:DC:131:LEU:CD1	2.48	0.43
38:DC:146:GLY:O	38:DC:149:ILE:HB	2.18	0.43
39:DD:26:LYS:O	39:DD:27:THR:HG22	2.17	0.43
39:DD:28:GLU:N	39:DD:29:PRO:HD2	2.21	0.43
40:DE:194:GLY:O	40:DE:196:VAL:HG13	2.18	0.43
41:DF:3:GLU:O	41:DF:19:GLU:CB	2.62	0.43
43:DH:117:PRO:HB3	43:DH:123:PHE:CE1	2.53	0.43
43:DH:144:VAL:O	43:DH:148:ILE:HG12	2.18	0.43
46:DN:55:VAL:HG21	46:DN:127:ASP:H	1.83	0.43
48:DP:83:VAL:HG12	48:DP:113:LYS:O	2.18	0.43
49:DQ:35:VAL:HG23	49:DQ:101:ARG:O	2.18	0.43
49:DQ:140:ALA:HB1	58:DZ:99:TYR:CG	2.53	0.43
49:DQ:141:GLN:HB2	58:DZ:99:TYR:CD2	2.53	0.43
51:DS:11:LYS:N	51:DS:11:LYS:CD	2.80	0.43
51:DS:39:ILE:O	51:DS:40:ILE:HG23	2.17	0.43
53:DU:109:LEU:O	53:DU:113:ALA:N	2.52	0.43
55:DW:28:SER:OG	55:DW:31:GLU:HG3	2.19	0.43
1:AA:44:G:C2	1:AA:45:U:H1'	2.53	0.43
1:AA:72:C:O2'	1:AA:73:G:H5'	2.18	0.43
1:AA:471:G:H3'	1:AA:471:G:OP1	2.18	0.43
1:AA:723:U:O2	1:AA:723:U:C2'	2.66	0.43
1:AA:1014:A:H2	1:AA:1219:U:H1'	1.83	0.43
1:AA:1057:G:H2'	1:AA:1058:G:H8	1.82	0.43
1:AA:1155:G:C4	1:AA:1156:G:C8	3.06	0.43
1:AA:1311:G:C6	1:AA:1312:G:C5	3.06	0.43
1:AA:1430:C:C2	1:AA:1471:G:C2	3.05	0.43
1:AA:1468:A:N3	1:AA:1469:G:H1'	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:3:ASN:O	3:AC:4:LYS:HB2	2.19	0.43
3:AC:55:VAL:O	3:AC:55:VAL:HG12	2.18	0.43
3:AC:80:GLY:O	3:AC:82:GLU:OE2	2.35	0.43
4:AD:135:LEU:C	4:AD:137:SER:H	2.22	0.43
4:AD:170:VAL:CG1	4:AD:171:GLY:H	2.28	0.43
5:AE:67:VAL:CG2	5:AE:68:GLU:N	2.81	0.43
6:AF:62:TRP:CE2	18:AR:35:ARG:CZ	3.01	0.43
7:AG:113:GLU:HG3	7:AG:119:ARG:HG2	2.01	0.43
8:AH:56:LYS:HG3	8:AH:56:LYS:H	1.52	0.43
10:AJ:28:ARG:C	10:AJ:30:SER:N	2.72	0.43
11:AK:82:VAL:CG1	11:AK:108:ILE:HA	2.45	0.43
13:AM:49:THR:C	13:AM:51:ALA:N	2.70	0.43
15:AO:50:HIS:O	15:AO:53:HIS:CB	2.66	0.43
15:AO:82:ILE:O	15:AO:83:GLU:C	2.56	0.43
18:AR:44:LEU:HD12	18:AR:44:LEU:N	2.32	0.43
22:AW:30:G:O2'	22:AW:31:A:H5'	2.18	0.43
22:AW:35:A:N1	23:AX:17:U:O4	2.51	0.43
22:AW:70:G:H8	22:AW:70:G:H5'	1.82	0.43
24:AY:20:H2U:HN3	36:BA:1066:U:H3	1.66	0.43
25:AZ:35:ALA:O	25:AZ:39:ASN:HB2	2.18	0.43
25:AZ:138:VAL:CG2	25:AZ:174:SER:N	2.81	0.43
25:AZ:257:GLY:C	25:AZ:258:LEU:HD12	2.39	0.43
26:B0:2:ALA:HB3	36:BA:2602:A:N1	2.32	0.43
26:B0:78:TYR:CD1	26:B0:78:TYR:N	2.86	0.43
26:B0:82:ARG:HA	26:B0:83:PRO:HD3	1.86	0.43
27:B1:80:LEU:CD2	27:B1:81:LYS:N	2.81	0.43
28:B2:5:GLU:C	28:B2:9:GLN:NE2	2.72	0.43
28:B2:10:LEU:O	28:B2:14:ARG:HB2	2.19	0.43
29:B3:15:TYR:HB3	29:B3:16:PRO:CD	2.49	0.43
30:B4:12:ALA:CB	30:B4:29:PRO:HA	2.47	0.43
32:B6:36:LEU:O	32:B6:37:ARG:HB2	2.17	0.43
34:B8:57:ARG:C	34:B8:59:LYS:N	2.71	0.43
35:B9:31:LYS:C	35:B9:32:HIS:CD2	2.92	0.43
36:BA:102:G:H4'	36:BA:102:G:OP1	2.19	0.43
36:BA:178:G:C2	36:BA:179:G:C8	3.06	0.43
36:BA:322:A:OP1	41:BF:168:ARG:HG2	2.18	0.43
36:BA:664:C:H4'	36:BA:941:A:P	2.58	0.43
36:BA:728:G:C6	36:BA:730:C:C4	3.06	0.43
36:BA:773:U:H5'	39:BD:47:GLY:HA2	2.00	0.43
36:BA:803:U:H2'	36:BA:804:A:C5'	2.45	0.43
36:BA:827:U:C2'	36:BA:2068:U:C2	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:954:G:H5''	49:BQ:13:GLN:CG	2.48	0.43
36:BA:976:C:H2'	36:BA:977:G:C8	2.53	0.43
36:BA:1028:A:N3	36:BA:2486:G:O2'	2.38	0.43
36:BA:1628:G:O2'	36:BA:1629:U:H5'	2.19	0.43
36:BA:1717:G:H2'	36:BA:1718:G:C5'	2.48	0.43
36:BA:2175:C:N3	36:BA:2176:A:N1	2.66	0.43
36:BA:2388:A:H5'	36:BA:2389:G:OP2	2.18	0.43
36:BA:2483:C:O2	36:BA:2483:C:H2'	2.17	0.43
36:BA:2579:C:H4'	40:BE:134:ILE:HG12	1.99	0.43
36:BA:2599:G:H5''	36:BA:2599:G:C8	2.53	0.43
36:BA:2822:G:OP2	40:BE:110:GLY:C	2.56	0.43
38:BC:166:ASP:CG	38:BC:168:THR:H	2.22	0.43
39:BD:65:ILE:HG22	39:BD:104:TYR:CB	2.48	0.43
39:BD:245:PRO:O	39:BD:246:PRO:O	2.37	0.43
40:BE:104:VAL:O	40:BE:166:THR:HA	2.19	0.43
42:BG:21:ARG:O	42:BG:24:GLY:N	2.46	0.43
42:BG:23:PHE:CE1	42:BG:168:GLU:HG2	2.54	0.43
42:BG:130:ASN:OD1	42:BG:161:THR:O	2.36	0.43
47:BO:11:ALA:HB1	47:BO:98:VAL:CG2	2.37	0.43
47:BO:103:ALA:O	47:BO:106:LEU:HG	2.18	0.43
48:BP:34:GLY:O	48:BP:35:HIS:CB	2.66	0.43
48:BP:80:TYR:N	48:BP:80:TYR:CD2	2.87	0.43
48:BP:114:ILE:N	48:BP:129:ALA:O	2.51	0.43
48:BP:125:VAL:O	48:BP:125:VAL:HG13	2.18	0.43
52:BT:15:VAL:CG2	52:BT:16:ARG:N	2.82	0.43
52:BT:99:LEU:O	52:BT:101:PHE:N	2.51	0.43
56:BX:24:GLY:O	56:BX:82:GLN:NE2	2.51	0.43
1:CA:250:A:O4'	1:CA:252:U:C6	2.71	0.43
1:CA:266:G:C5'	1:CA:267:C:C5	3.01	0.43
1:CA:355:C:N4	1:CA:356:A:H62	2.16	0.43
1:CA:490:G:N1	1:CA:491:G:C5	2.86	0.43
1:CA:529:G:O6	12:CL:49:ASN:CB	2.66	0.43
1:CA:950:U:H2'	1:CA:951:G:H8	1.83	0.43
1:CA:1016:A:C2'	1:CA:1017:G:H5'	2.48	0.43
1:CA:1065:U:O5'	1:CA:1190:G:N2	2.50	0.43
1:CA:1161:C:O2'	1:CA:1162:C:H5'	2.18	0.43
1:CA:1387:G:C5	1:CA:1388:C:C5	3.06	0.43
2:CB:8:LYS:O	2:CB:12:GLU:HG3	2.18	0.43
2:CB:92:TYR:CD1	2:CB:151:GLY:HA3	2.52	0.43
2:CB:142:LEU:C	2:CB:142:LEU:HD23	2.38	0.43
2:CB:219:VAL:C	2:CB:222:ILE:HG12	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:1:MET:H1	6:CF:68:PRO:HA	1.84	0.43
7:CG:113:GLU:HG3	7:CG:119:ARG:HG2	2.00	0.43
8:CH:9:MET:O	8:CH:10:LEU:C	2.56	0.43
8:CH:13:ILE:O	8:CH:14:ARG:C	2.56	0.43
8:CH:110:ALA:HB3	8:CH:121:ASP:HB3	2.01	0.43
18:CR:37:VAL:O	18:CR:41:LYS:HB2	2.18	0.43
21:CU:16:GLY:O	21:CU:17:THR:CG2	2.57	0.43
22:CV:5:G:H2'	22:CV:6:G:O4'	2.18	0.43
22:CW:75:C:OP1	27:D1:30:VAL:HG21	2.17	0.43
25:CZ:155:ARG:HB3	25:CZ:165:GLY:O	2.18	0.43
25:CZ:298:VAL:HA	25:CZ:302:GLN:OE1	2.17	0.43
25:CZ:389:ARG:C	25:CZ:395:VAL:HG13	2.39	0.43
27:D1:45:ASN:HB3	27:D1:64:ALA:CB	2.45	0.43
27:D1:45:ASN:CB	36:DA:397:G:H5''	2.49	0.43
28:D2:43:GLN:O	28:D2:44:LEU:HB2	2.18	0.43
28:D2:51:ARG:C	28:D2:53:LEU:N	2.71	0.43
30:D4:12:ALA:CB	30:D4:29:PRO:HA	2.48	0.43
32:D6:42:TRP:HA	32:D6:42:TRP:HE3	1.83	0.43
34:D8:55:ALA:O	34:D8:56:GLU:C	2.56	0.43
36:DA:146:G:C2'	36:DA:147:U:H5'	2.48	0.43
36:DA:321:G:OP2	41:DF:135:LYS:HA	2.18	0.43
36:DA:370:G:H2'	36:DA:423:A:C8	2.52	0.43
36:DA:530:G:OP2	36:DA:530:G:H2'	2.19	0.43
36:DA:614(C):A:H4'	36:DA:615:G:OP1	2.18	0.43
36:DA:937:U:H2'	36:DA:938:G:C8	2.53	0.43
36:DA:942:G:H2'	36:DA:943:U:O4'	2.19	0.43
36:DA:1277:G:H2'	36:DA:1278:A:O4'	2.17	0.43
36:DA:1375:C:H2'	36:DA:1376:C:O4'	2.19	0.43
36:DA:1386:C:H3'	36:DA:1386:C:C6	2.50	0.43
36:DA:1407:C:H3'	36:DA:1408:C:C6	2.53	0.43
36:DA:1466:G:H5'	36:DA:1467:C:OP1	2.18	0.43
36:DA:1518:U:H6	36:DA:1518:U:O5'	2.01	0.43
36:DA:1548:C:H2'	36:DA:1549:C:C6	2.53	0.43
36:DA:1614:A:N6	55:DW:87:PRO:HA	2.33	0.43
36:DA:1621:U:H5''	36:DA:1622:G:OP1	2.18	0.43
36:DA:2156:G:N2	36:DA:2157:G:H21	2.16	0.43
36:DA:2228:G:C5	36:DA:2229:C:C4	3.06	0.43
36:DA:2540:C:C2'	36:DA:2541:A:H5'	2.48	0.43
36:DA:2640:G:N1	36:DA:2775:A:C2	2.86	0.43
38:DC:61:THR:O	38:DC:163:PHE:HE2	2.01	0.43
38:DC:140:PRO:HG2	38:DC:141:LYS:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:65:ILE:HG22	39:DD:104:TYR:HB3	2.00	0.43
40:DE:68:ALA:O	40:DE:70:ALA:N	2.51	0.43
40:DE:93:VAL:CG1	40:DE:175:VAL:HG23	2.49	0.43
41:DF:160:ASN:HB3	41:DF:163:VAL:CB	2.40	0.43
42:DG:51:ARG:HD3	42:DG:53:LEU:CD2	2.48	0.43
42:DG:93:THR:HG22	42:DG:94:LEU:H	1.84	0.43
43:DH:37:VAL:HG11	43:DH:68:THR:CG2	2.48	0.43
43:DH:40:GLU:O	43:DH:41:MET:CB	2.67	0.43
46:DN:38:HIS:O	53:DU:67:ALA:O	2.36	0.43
46:DN:111:PRO:HA	46:DN:114:ARG:CZ	2.48	0.43
48:DP:96:THR:H	48:DP:99:LEU:CD2	2.30	0.43
49:DQ:1:MET:HB3	49:DQ:2:LEU:H	1.60	0.43
49:DQ:34:LEU:HD11	49:DQ:129:THR:CB	2.38	0.43
49:DQ:35:VAL:CG2	49:DQ:36:ALA:N	2.82	0.43
49:DQ:59:ARG:HD2	49:DQ:59:ARG:O	2.18	0.43
50:DR:22:ARG:O	50:DR:26:LYS:HB2	2.17	0.43
51:DS:32:LEU:O	51:DS:62:LYS:HE3	2.19	0.43
53:DU:57:PHE:O	53:DU:59:ARG:N	2.52	0.43
55:DW:62:HIS:O	55:DW:63:ASP:O	2.37	0.43
57:DY:12:THR:OG1	57:DY:26:LYS:HA	2.18	0.43
57:DY:29:GLU:OE2	57:DY:38:ILE:HG21	2.19	0.43
57:DY:81:LYS:CG	57:DY:96:ILE:HB	2.48	0.43
58:DZ:14:LYS:C	58:DZ:16:SER:H	2.21	0.43
1:AA:70:G:H2'	1:AA:71:C:H5'	2.01	0.43
1:AA:279:A:H4'	1:AA:281:G:C8	2.54	0.43
1:AA:284:G:H2'	1:AA:285:G:H8	1.82	0.43
1:AA:404:U:H2'	1:AA:405:U:H6	1.83	0.43
1:AA:637:G:O2'	1:AA:638:G:H5'	2.18	0.43
1:AA:1470:G:C4	1:AA:1471:G:N7	2.87	0.43
2:AB:8:LYS:NZ	2:AB:217:ARG:CZ	2.81	0.43
2:AB:54:THR:O	2:AB:57:PHE:N	2.51	0.43
2:AB:61:LEU:HA	2:AB:64:ARG:HE	1.76	0.43
2:AB:142:LEU:O	2:AB:146:GLN:N	2.47	0.43
4:AD:104:VAL:HA	4:AD:107:ARG:HB2	2.01	0.43
6:AF:39:LYS:HB2	6:AF:64:GLN:CB	2.48	0.43
8:AH:19:VAL:O	8:AH:21:LYS:N	2.52	0.43
11:AK:87:THR:HG22	11:AK:88:GLY:N	2.33	0.43
12:AL:62:SER:O	12:AL:64:TYR:CD1	2.72	0.43
13:AM:66:LEU:O	13:AM:67:GLU:C	2.57	0.43
16:AP:16:HIS:O	16:AP:17:TYR:O	2.36	0.43
17:AQ:88:TYR:OH	17:AQ:92:ARG:CZ	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:38:LYS:C	20:AT:40:ALA:N	2.72	0.43
20:AT:61:SER:OG	20:AT:65:LYS:HE3	2.18	0.43
22:AW:10:G:C2'	22:AW:11:C:H5'	2.49	0.43
24:AY:37:YG:H142	24:AY:38:A:C2	2.54	0.43
25:AZ:143:ASP:OD2	25:AZ:144:PRO:HD2	2.18	0.43
25:AZ:194:GLU:O	25:AZ:198:LYS:HG3	2.17	0.43
25:AZ:298:VAL:HA	25:AZ:302:GLN:OE1	2.17	0.43
26:B0:23:VAL:N	26:B0:38:VAL:HG13	2.33	0.43
27:B1:58:ILE:HD13	27:B1:60:PHE:HE2	1.82	0.43
30:B4:13:ARG:HG3	30:B4:13:ARG:O	2.19	0.43
31:B5:34:PRO:O	31:B5:35:GLU:CG	2.62	0.43
32:B6:20:ASN:C	32:B6:21:TYR:CD1	2.91	0.43
33:B7:4:THR:HB	36:BA:788:A:H1'	2.00	0.43
36:BA:250:G:OP1	36:BA:2394:C:H4'	2.18	0.43
36:BA:260:G:C6	36:BA:261:G:N7	2.87	0.43
36:BA:587:C:O2'	36:BA:588:U:P	2.76	0.43
36:BA:628:G:O2'	36:BA:629:G:H5''	2.18	0.43
36:BA:944:G:H22	48:BP:38:GLN:HE22	1.65	0.43
36:BA:1041:C:C2'	36:BA:1042:G:H5'	2.49	0.43
36:BA:1313:U:H3'	36:BA:1314:C:H5'	1.99	0.43
36:BA:1670:C:H2'	36:BA:1671:U:O4'	2.18	0.43
36:BA:1708:C:H2'	36:BA:1709:U:C5	2.53	0.43
36:BA:2033:A:O2'	36:BA:2034:U:P	2.76	0.43
36:BA:2063:C:C2'	36:BA:2064:C:H5'	2.49	0.43
36:BA:2130:U:OP1	38:BC:5:LYS:HG2	2.18	0.43
36:BA:2307:G:N2	36:BA:2308:G:H5''	2.33	0.43
36:BA:2547:U:H1'	47:BO:28:SER:O	2.18	0.43
36:BA:2641:G:OP1	46:BN:74:ARG:HG2	2.18	0.43
36:BA:2679:A:C6	36:BA:2729:G:O6	2.72	0.43
37:BB:14:U:OP2	37:BB:70:C:O2'	2.37	0.43
38:BC:120:MET:HA	38:BC:123:VAL:CG1	2.49	0.43
39:BD:226:MET:O	39:BD:227:ASN:OD1	2.37	0.43
40:BE:126:PRO:O	40:BE:127:ASP:C	2.55	0.43
40:BE:183:LEU:HD12	40:BE:183:LEU:N	2.32	0.43
42:BG:51:ARG:HD3	42:BG:53:LEU:CD2	2.48	0.43
42:BG:63:ILE:O	42:BG:65:GLY:N	2.51	0.43
43:BH:37:VAL:HG11	43:BH:68:THR:CG2	2.48	0.43
43:BH:68:THR:C	43:BH:70:THR:H	2.22	0.43
49:BQ:35:VAL:CG2	49:BQ:36:ALA:N	2.82	0.43
49:BQ:92:GLY:O	49:BQ:93:TYR:CD1	2.72	0.43
50:BR:13:HIS:ND1	50:BR:13:HIS:C	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:21:TYR:N	50:BR:21:TYR:CD1	2.87	0.43
52:BT:83:ILE:CD1	52:BT:84:GLN:HG2	2.49	0.43
52:BT:101:PHE:C	52:BT:103:ARG:N	2.68	0.43
54:BV:21:ARG:HB3	54:BV:91:TYR:CD1	2.53	0.43
55:BW:75:TYR:CD1	55:BW:104:THR:OG1	2.69	0.43
57:BY:101:LYS:HG2	57:BY:102:CYS:N	2.32	0.43
58:BZ:44:PHE:O	58:BZ:45:ASP:O	2.36	0.43
58:BZ:165:VAL:HG12	58:BZ:167:PRO:HA	1.99	0.43
1:CA:15:G:H4'	5:CE:24:ARG:NH2	2.33	0.43
1:CA:34:C:C1'	12:CL:32:PHE:HE2	2.32	0.43
1:CA:149:A:H2'	1:CA:150:C:C6	2.54	0.43
1:CA:163:C:O2'	1:CA:164:U:H5'	2.18	0.43
1:CA:191:G:O2'	20:CT:102:GLY:O	2.35	0.43
1:CA:311:C:O2'	1:CA:312:C:H5'	2.18	0.43
1:CA:367:U:C4	1:CA:394:G:N1	2.85	0.43
1:CA:418:C:C2'	1:CA:419:C:O5'	2.67	0.43
1:CA:438:G:H4'	4:CD:123:HIS:ND1	2.34	0.43
1:CA:697:U:C2'	1:CA:698:G:H5'	2.47	0.43
1:CA:1004:A:N6	1:CA:1035:A:C6	2.86	0.43
1:CA:1190:G:P	3:CC:5:ILE:HD12	2.59	0.43
1:CA:1221:G:N2	1:CA:1222:G:H1'	2.33	0.43
1:CA:1351:U:O2'	1:CA:1352:C:C5'	2.65	0.43
1:CA:1490:C:O2'	1:CA:1491:G:H5'	2.18	0.43
2:CB:36:ARG:HA	2:CB:36:ARG:CZ	2.48	0.43
2:CB:233:SER:O	2:CB:234:PRO:C	2.55	0.43
3:CC:92:ALA:CA	3:CC:99:VAL:HG11	2.47	0.43
4:CD:10:ARG:C	4:CD:11:LEU:HD23	2.37	0.43
4:CD:18:LYS:HE2	4:CD:20:TYR:CE2	2.53	0.43
4:CD:171:GLY:HA2	4:CD:172:PRO:HD3	1.87	0.43
5:CE:76:ILE:CG2	5:CE:93:PRO:HA	2.49	0.43
7:CG:107:ALA:O	7:CG:110:GLN:HB2	2.18	0.43
7:CG:153:HIS:ND1	7:CG:153:HIS:N	2.67	0.43
8:CH:82:HIS:C	8:CH:83:ILE:HG22	2.38	0.43
9:CI:118:LYS:C	9:CI:120:ARG:H	2.22	0.43
13:CM:29:ARG:HB3	13:CM:64:TRP:CZ2	2.52	0.43
14:CN:21:TYR:CE2	14:CN:23:ARG:NH2	2.87	0.43
14:CN:47:LEU:C	14:CN:49:HIS:H	2.21	0.43
15:CO:81:LEU:HD11	15:CO:85:LEU:HD12	2.01	0.43
18:CR:69:THR:O	18:CR:72:ARG:HB2	2.18	0.43
22:CV:68:C:H2'	22:CV:69:G:C4'	2.48	0.43
25:CZ:85:HIS:HD2	25:CZ:88:TYR:CE2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:146:LEU:H	25:CZ:149:LEU:HD23	1.82	0.43
28:D2:4:SER:O	28:D2:7:ARG:HG3	2.19	0.43
28:D2:25:VAL:C	28:D2:27:GLU:H	2.22	0.43
28:D2:61:LEU:O	28:D2:62:THR:C	2.57	0.43
32:D6:17:LYS:HD3	32:D6:17:LYS:HA	1.44	0.43
33:D7:46:VAL:HG12	33:D7:48:LYS:NZ	2.33	0.43
36:DA:64:A:O2'	36:DA:65:C:H5'	2.19	0.43
36:DA:128:C:C4	36:DA:129:C:C5	3.05	0.43
36:DA:188:G:H2'	36:DA:189:G:O4'	2.17	0.43
36:DA:221:A:O2'	36:DA:222:A:OP2	2.33	0.43
36:DA:412:A:H3'	36:DA:413:C:H6	1.84	0.43
36:DA:470:A:H2'	36:DA:471:A:O4'	2.18	0.43
36:DA:532:A:OP1	53:DU:45:TYR:OH	2.27	0.43
36:DA:563:G:O2'	36:DA:564:C:H5'	2.18	0.43
36:DA:573:G:N1	36:DA:2031:A:OP2	2.40	0.43
36:DA:615:G:C6	36:DA:616:G:C6	3.06	0.43
36:DA:676:A:C2	36:DA:677:A:H1'	2.54	0.43
36:DA:699:A:H2'	36:DA:700:G:O4'	2.17	0.43
36:DA:834:C:H2'	36:DA:835:A:H8	1.82	0.43
36:DA:880:G:H2'	36:DA:881:G:C8	2.52	0.43
36:DA:920:G:O2'	36:DA:921:G:H5'	2.18	0.43
36:DA:1221:C:H6	36:DA:1221:C:OP2	2.00	0.43
36:DA:1323:U:C2'	36:DA:1324:G:H5'	2.48	0.43
36:DA:1367:A:C2'	36:DA:1368:G:H5'	2.47	0.43
36:DA:1386:C:C6	36:DA:1387:C:H5	2.36	0.43
36:DA:1542:A:H5'	36:DA:1543:C:OP2	2.18	0.43
36:DA:1545:A:H2'	36:DA:1546:C:O4'	2.17	0.43
36:DA:1653:G:O3'	50:DR:3:HIS:HB2	2.18	0.43
36:DA:1903:G:O2'	36:DA:1904:G:H5'	2.18	0.43
36:DA:2029:G:O6	36:DA:2033:A:OP2	2.36	0.43
36:DA:2250:G:N3	36:DA:2250:G:O4'	2.51	0.43
36:DA:2255:G:H2'	36:DA:2256:G:O4'	2.17	0.43
36:DA:2363:C:O2'	36:DA:2364:C:H5'	2.18	0.43
36:DA:2587:A:O2'	36:DA:2588:G:H5'	2.19	0.43
36:DA:2590:A:H2'	36:DA:2591:C:H5'	2.00	0.43
36:DA:2645:G:C3'	36:DA:2646:C:H5'	2.24	0.43
36:DA:2740:A:H2'	36:DA:2741:A:O4'	2.19	0.43
39:DD:51:VAL:O	39:DD:52:ARG:O	2.37	0.43
39:DD:148:GLU:HB2	39:DD:151:LYS:HD2	1.97	0.43
39:DD:249:PRO:CG	39:DD:250:TRP:N	2.80	0.43
40:DE:4:ILE:CG1	40:DE:5:LEU:H	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:7:VAL:HG23	40:DE:193:GLY:O	2.18	0.43
40:DE:11:MET:SD	40:DE:24:THR:OG1	2.77	0.43
40:DE:199:ARG:CG	40:DE:200:GLU:N	2.75	0.43
41:DF:20:LEU:HD12	41:DF:199:TRP:CH2	2.44	0.43
41:DF:78:ILE:HA	41:DF:83:PHE:CE1	2.54	0.43
42:DG:15:VAL:O	42:DG:18:GLU:HB3	2.18	0.43
42:DG:62:LEU:H	42:DG:62:LEU:CD1	2.28	0.43
43:DH:150:ALA:O	43:DH:151:ILE:C	2.56	0.43
47:DO:60:ALA:HB1	47:DO:85:VAL:O	2.18	0.43
48:DP:126:VAL:HG12	48:DP:148:LEU:HD11	1.99	0.43
48:DP:147:LEU:O	48:DP:148:LEU:HB2	2.19	0.43
52:DT:48:ILE:O	52:DT:63:VAL:HG13	2.19	0.43
55:DW:17:VAL:O	55:DW:19:LEU:N	2.50	0.43
55:DW:52:GLU:O	55:DW:54:ALA:N	2.51	0.43
55:DW:68:ARG:O	55:DW:110:LYS:HB2	2.18	0.43
56:DX:20:GLY:C	56:DX:22:ALA:H	2.20	0.43
56:DX:46:ALA:O	56:DX:47:PHE:CD1	2.71	0.43
56:DX:46:ALA:C	56:DX:47:PHE:CD1	2.92	0.43
58:DZ:20:ARG:NH1	58:DZ:20:ARG:HB2	2.34	0.43
1:AA:47:C:O2'	1:AA:48:C:P	2.76	0.43
1:AA:51:A:C2	1:AA:353:A:N1	2.86	0.43
1:AA:110:C:C2	1:AA:111:G:C8	3.06	0.43
1:AA:184:G:H2'	1:AA:185:A:C8	2.51	0.43
1:AA:302:G:H2'	1:AA:303:A:C8	2.54	0.43
1:AA:630:G:C2'	1:AA:631:G:H5'	2.46	0.43
1:AA:705:U:C5	1:AA:706:A:C5	3.06	0.43
1:AA:722:A:O3'	1:AA:723:U:H2'	2.18	0.43
1:AA:982:U:H4'	1:AA:983:A:C5'	2.45	0.43
1:AA:990:C:H2'	1:AA:991:U:C6	2.54	0.43
1:AA:1001:A:O2'	1:AA:1001(A):G:C2	2.69	0.43
1:AA:1016:A:C2'	1:AA:1017:G:H5'	2.49	0.43
1:AA:1045:C:O2	1:AA:1045:C:C2'	2.67	0.43
1:AA:1054:C:N4	24:AY:34:G:C1'	2.73	0.43
1:AA:1256:A:N1	1:AA:1277:C:H2'	2.34	0.43
1:AA:1351:U:O2'	1:AA:1352:C:C5'	2.65	0.43
1:AA:1525:G:O2'	1:AA:1526:G:C5'	2.61	0.43
2:AB:111:ARG:O	2:AB:112:VAL:C	2.56	0.43
2:AB:166:ASP:O	2:AB:169:LYS:N	2.51	0.43
3:AC:101:LEU:HD23	3:AC:102:ASN:O	2.18	0.43
4:AD:11:LEU:C	4:AD:13:ARG:N	2.69	0.43
4:AD:64:LEU:O	4:AD:67:ILE:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:51:VAL:CB	5:AE:52:PRO:HD3	2.49	0.43
7:AG:93:PRO:O	7:AG:94:ARG:C	2.57	0.43
7:AG:116:ALA:HA	7:AG:119:ARG:NH1	2.32	0.43
9:AI:4:TYR:CE2	9:AI:88:TYR:CB	3.00	0.43
9:AI:6:GLY:HA3	9:AI:84:ALA:CA	2.47	0.43
9:AI:37:PHE:CE2	9:AI:74:ILE:HD11	2.53	0.43
9:AI:121:ARG:NH1	9:AI:122:ALA:O	2.51	0.43
14:AN:7:ILE:HG13	14:AN:8:GLU:HG2	2.00	0.43
14:AN:9:LYS:O	14:AN:9:LYS:CG	2.67	0.43
14:AN:25:VAL:O	14:AN:26:ARG:O	2.37	0.43
15:AO:36:ILE:HG23	15:AO:56:LEU:CD1	2.41	0.43
16:AP:19:ILE:HG22	16:AP:36:ILE:HG13	1.99	0.43
16:AP:52:ASP:O	16:AP:53:VAL:C	2.56	0.43
18:AR:69:THR:O	18:AR:72:ARG:HB2	2.19	0.43
25:AZ:263:ARG:NH2	25:AZ:297:GLU:HB3	2.31	0.43
25:AZ:311:THR:OG1	25:AZ:313:HIS:NE2	2.45	0.43
27:B1:3:LYS:NZ	27:B1:3:LYS:CB	2.81	0.43
31:B5:24:ALA:O	31:B5:25:LEU:HG	2.19	0.43
35:B9:2:LYS:C	35:B9:34:GLN:HE22	2.22	0.43
36:BA:244:A:H3'	36:BA:245:G:C5'	2.48	0.43
36:BA:248:G:H5''	36:BA:386:G:N2	2.33	0.43
36:BA:360:G:H2'	36:BA:361:G:H8	1.84	0.43
36:BA:470:A:H2'	36:BA:471:A:O4'	2.18	0.43
36:BA:482:A:H1'	36:BA:498:G:N2	2.32	0.43
36:BA:765:G:C6	36:BA:766:C:C4	3.07	0.43
36:BA:1086:A:O4'	36:BA:1104:C:O2	2.35	0.43
36:BA:1203:G:N1	36:BA:1241:A:OP2	2.40	0.43
36:BA:1249:U:H2'	36:BA:1250:G:C8	2.53	0.43
36:BA:1365:A:N6	36:BA:1366:A:C6	2.86	0.43
36:BA:1649:G:C2	36:BA:2009:G:N3	2.87	0.43
36:BA:1717:G:H2'	36:BA:1718:G:H5''	1.99	0.43
36:BA:1769:G:C1'	36:BA:1958:C:H5''	2.47	0.43
36:BA:1801:G:O5'	36:BA:1801:G:N3	2.51	0.43
36:BA:1804:C:H2'	36:BA:1805:U:H6	1.84	0.43
36:BA:2239:G:C6	36:BA:2240:C:C4	3.07	0.43
36:BA:2643:G:N2	36:BA:2772:C:C2	2.86	0.43
36:BA:2758:A:C2	36:BA:2759:G:C1'	3.00	0.43
37:BB:40:U:C3'	37:BB:41:U:H5''	2.48	0.43
37:BB:67:G:O2'	37:BB:68:C:O5'	2.35	0.43
38:BC:6:ARG:NH1	38:BC:6:ARG:CG	2.81	0.43
42:BG:47:LYS:NZ	42:BG:81:LYS:CG	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:19:VAL:O	43:BH:20:ALA:HB2	2.18	0.43
43:BH:93:GLY:C	43:BH:94:TYR:HD1	2.21	0.43
46:BN:57:ALA:CB	46:BN:124:ALA:HA	2.44	0.43
46:BN:62:VAL:O	46:BN:62:VAL:HG13	2.19	0.43
47:BO:8:LEU:O	47:BO:9:GLU:C	2.56	0.43
48:BP:79:ARG:HH22	48:BP:81:GLN:HE21	1.66	0.43
48:BP:98:GLU:CA	48:BP:101:VAL:HG13	2.49	0.43
50:BR:109:ALA:O	50:BR:111:LEU:HD12	2.19	0.43
51:BS:104:GLY:O	51:BS:106:ARG:N	2.51	0.43
52:BT:91:ARG:O	52:BT:117:ASP:HB3	2.18	0.43
52:BT:98:LYS:HG2	52:BT:100:TYR:HE1	1.82	0.43
53:BU:9:VAL:O	53:BU:13:LYS:HG2	2.19	0.43
54:BV:21:ARG:HG2	54:BV:21:ARG:HH11	1.83	0.43
54:BV:32:THR:HG22	54:BV:33:VAL:N	2.34	0.43
55:BW:70:TYR:HE1	55:BW:72:LYS:HA	1.83	0.43
57:BY:12:THR:CG2	57:BY:13:VAL:N	2.81	0.43
57:BY:46:LYS:HB2	57:BY:62:GLU:HG3	1.94	0.43
1:CA:15:G:H2'	1:CA:16:A:C8	2.53	0.43
1:CA:102:G:C5	1:CA:103:C:C5	3.06	0.43
1:CA:109:A:C4	1:CA:327:A:C2	3.07	0.43
1:CA:310:G:H2'	1:CA:311:C:C6	2.53	0.43
1:CA:590:C:OP1	8:CH:30:ARG:N	2.38	0.43
1:CA:935:A:C2	1:CA:936:C:N3	2.87	0.43
1:CA:998:G:C2	1:CA:1044:A:N1	2.85	0.43
1:CA:1091:U:O2	1:CA:1093:A:C8	2.72	0.43
1:CA:1114:C:H2'	1:CA:1114:C:O2	2.18	0.43
1:CA:1497:G:H1'	1:CA:1518:A:H2	1.83	0.43
2:CB:101:MET:HA	2:CB:108:ILE:HG13	1.99	0.43
2:CB:104:ASN:OD1	2:CB:107:THR:CB	2.66	0.43
3:CC:58:GLU:O	3:CC:65:ALA:HB2	2.18	0.43
4:CD:138:TYR:CD2	4:CD:139:ARG:N	2.84	0.43
6:CF:68:PRO:HB2	6:CF:70:ASP:OD1	2.18	0.43
7:CG:79:ARG:HG3	7:CG:84:ASN:N	2.33	0.43
12:CL:58:VAL:O	12:CL:65:GLU:HA	2.19	0.43
13:CM:32:GLU:O	13:CM:34:LEU:N	2.52	0.43
13:CM:75:ALA:O	13:CM:78:ILE:HB	2.17	0.43
14:CN:8:GLU:C	14:CN:10:ALA:N	2.71	0.43
14:CN:9:LYS:O	14:CN:9:LYS:CG	2.67	0.43
15:CO:32:LEU:O	15:CO:35:ARG:HB2	2.19	0.43
16:CP:53:VAL:CG2	16:CP:54:GLU:H	2.19	0.43
20:CT:24:LEU:O	20:CT:27:LYS:N	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:12:U:H5''	36:DA:1908:C:O2'	2.19	0.43
25:CZ:97:ALA:CA	25:CZ:126:VAL:CG1	2.97	0.43
25:CZ:197:ASP:HA	25:CZ:200:TRP:HD1	1.80	0.43
25:CZ:200:TRP:O	25:CZ:204:ASP:N	2.52	0.43
26:D0:48:GLY:N	26:D0:51:VAL:HB	2.31	0.43
31:D5:56:LYS:HE2	31:D5:59:GLU:CD	2.38	0.43
33:D7:11:LYS:HG2	36:DA:686:G:C4	2.52	0.43
36:DA:197:A:C8	36:DA:2430:A:C2	3.06	0.43
36:DA:223:A:H61	36:DA:374:A:H4'	1.83	0.43
36:DA:402:A:H2'	36:DA:403:U:H5'	2.01	0.43
36:DA:428:A:C2	36:DA:429:A:C4	3.06	0.43
36:DA:583:G:C6	36:DA:584:C:N4	2.86	0.43
36:DA:587:C:O2'	36:DA:588:U:P	2.77	0.43
36:DA:687:C:O2	36:DA:788:A:H5'	2.18	0.43
36:DA:909:A:O2'	36:DA:910:A:H5'	2.18	0.43
36:DA:1019:U:C2	36:DA:1144:G:N2	2.87	0.43
36:DA:1227:G:C2'	36:DA:1228:G:H5'	2.48	0.43
36:DA:1425:G:H8	36:DA:1425:G:O5'	2.01	0.43
36:DA:1518:U:H2'	36:DA:1519:G:C4'	2.48	0.43
36:DA:1829:A:N3	39:DD:15:PHE:HZ	2.16	0.43
36:DA:1887:C:C3'	36:DA:1888:G:C5'	2.96	0.43
36:DA:1968:G:H2'	36:DA:1969:A:H5''	1.99	0.43
36:DA:2497:A:OP2	36:DA:2497:A:C8	2.71	0.43
36:DA:2498:C:O2'	36:DA:2499:C:C5'	2.57	0.43
38:DC:71:GLN:NE2	38:DC:157:LYS:HD3	2.33	0.43
38:DC:199:HIS:ND1	38:DC:199:HIS:N	2.66	0.43
39:DD:267:SER:C	39:DD:269:PHE:H	2.22	0.43
42:DG:91:ARG:HD2	42:DG:91:ARG:C	2.38	0.43
43:DH:94:TYR:CE1	43:DH:108:GLY:N	2.86	0.43
46:DN:47:ALA:HB1	46:DN:119:ARG:NH1	2.34	0.43
48:DP:111:ARG:HH11	48:DP:149:GLU:CG	2.19	0.43
49:DQ:51:ARG:HG2	49:DQ:52:VAL:N	2.33	0.43
51:DS:13:ARG:O	51:DS:14:VAL:HB	2.19	0.43
51:DS:93:LYS:HA	51:DS:93:LYS:HD2	1.79	0.43
54:DV:4:ILE:O	54:DV:38:LEU:HD23	2.19	0.43
54:DV:4:ILE:CG2	54:DV:39:LEU:HD23	2.28	0.43
54:DV:52:VAL:O	54:DV:54:GLY:N	2.51	0.43
55:DW:104:THR:O	55:DW:105:VAL:HG22	2.19	0.43
58:DZ:71:VAL:CG1	58:DZ:74:VAL:CG2	2.91	0.43
1:AA:235:C:OP1	17:AQ:70:ARG:HD3	2.18	0.43
1:AA:716:A:H1'	11:AK:118:GLY:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:876:G:H2'	1:AA:877:C:H6	1.84	0.43
1:AA:882:C:OP2	12:AL:13:LYS:NZ	2.50	0.43
1:AA:961:U:O2'	1:AA:962:C:O5'	2.36	0.43
1:AA:1084:G:OP1	1:AA:1086:U:C4	2.72	0.43
1:AA:1145:C:H1'	1:AA:1146:A:N7	2.34	0.43
1:AA:1413:A:C6	1:AA:1414:U:C4	3.06	0.43
1:AA:1483:A:H3'	1:AA:1484:C:C6	2.54	0.43
2:AB:224:GLN:HA	2:AB:229:VAL:HG22	2.00	0.43
3:AC:56:ASP:O	3:AC:57:ILE:HG13	2.18	0.43
4:AD:92:VAL:CG1	4:AD:96:LEU:HD13	2.48	0.43
4:AD:125:HIS:ND1	4:AD:152:SER:OG	2.51	0.43
8:AH:14:ARG:HH11	8:AH:14:ARG:HB3	1.82	0.43
10:AJ:6:ILE:O	10:AJ:6:ILE:HG13	2.18	0.43
16:AP:45:THR:C	16:AP:47:ASP:N	2.71	0.43
17:AQ:29:HIS:CE1	17:AQ:32:TYR:H	2.35	0.43
20:AT:64:ASP:O	20:AT:67:ALA:CB	2.66	0.43
20:AT:73:HIS:O	20:AT:74:LYS:C	2.56	0.43
21:AU:25:LYS:HG2	21:AU:26:LYS:N	2.33	0.43
24:AY:33:U:H3'	24:AY:34:G:H5''	2.01	0.43
25:AZ:248:LYS:HA	25:AZ:270:VAL:HG21	2.01	0.43
28:B2:39:ALA:HB1	28:B2:45:SER:HA	2.00	0.43
29:B3:50:VAL:C	29:B3:52:HIS:H	2.21	0.43
34:B8:10:ALA:C	34:B8:12:LYS:H	2.20	0.43
35:B9:12:ASP:C	35:B9:14:CYS:N	2.71	0.43
36:BA:25:U:H2'	36:BA:26:G:C8	2.53	0.43
36:BA:225:A:O2'	36:BA:226:G:H5'	2.18	0.43
36:BA:685:A:N1	36:BA:787:U:H1'	2.34	0.43
36:BA:749:C:O5'	36:BA:749:C:H6	2.01	0.43
36:BA:1843:C:H2'	36:BA:1844:C:C6	2.54	0.43
36:BA:2239:G:H2'	36:BA:2240:C:C6	2.53	0.43
36:BA:2246:G:O2'	36:BA:2247:A:H5'	2.19	0.43
36:BA:2311:A:H2	42:BG:77:ILE:HG21	1.84	0.43
36:BA:2319:G:O6	51:BS:11:LYS:HD3	2.18	0.43
36:BA:2346:A:H5'	36:BA:2383:G:C1'	2.49	0.43
36:BA:2580:U:C6	36:BA:2581:G:C6	3.06	0.43
36:BA:2635:C:H5''	40:BE:78:LEU:O	2.19	0.43
37:BB:52:A:H8	37:BB:52:A:P	2.41	0.43
39:BD:209:ALA:O	39:BD:212:SER:HB2	2.18	0.43
41:BF:157:VAL:O	41:BF:158:THR:CB	2.66	0.43
42:BG:87:PRO:C	42:BG:88:ILE:HD13	2.39	0.43
42:BG:93:THR:CG2	42:BG:94:LEU:N	2.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:128:ARG:O	42:BG:129:GLY:O	2.35	0.43
42:BG:161:THR:OG1	42:BG:163:ALA:HB2	2.18	0.43
48:BP:47:ASP:HB3	48:BP:48:PRO:C	2.37	0.43
51:BS:63:THR:O	51:BS:64:GLU:C	2.57	0.43
51:BS:67:ARG:HB2	51:BS:71:ARG:NH1	2.33	0.43
53:BU:17:ILE:CA	53:BU:20:LEU:HD23	2.48	0.43
56:BX:63:LYS:HB2	56:BX:63:LYS:HE3	1.82	0.43
58:BZ:141:VAL:CA	58:BZ:144:LEU:HD23	2.43	0.43
58:BZ:167:PRO:O	58:BZ:168:GLU:HB2	2.18	0.43
1:CA:130:A:H1'	1:CA:264:U:H5'	2.01	0.43
1:CA:157:G:H2'	1:CA:158:G:C8	2.45	0.43
1:CA:316:G:OP2	1:CA:351:G:H2'	2.18	0.43
1:CA:518:C:H2'	1:CA:530:G:N3	2.33	0.43
1:CA:811:C:C4'	1:CA:900:A:H61	2.32	0.43
1:CA:833:U:H2'	1:CA:834:C:H6	1.82	0.43
1:CA:833:U:H3	1:CA:853:G:H1	1.65	0.43
1:CA:1006:C:H42	1:CA:1024:G:H21	1.66	0.43
1:CA:1030:C:N4	1:CA:1032:G:N2	2.66	0.43
1:CA:1190:G:H5''	3:CC:3:ASN:ND2	2.34	0.43
1:CA:1271:G:H5'	1:CA:1314:C:C5'	2.47	0.43
1:CA:1483:A:H3'	1:CA:1484:C:H6	1.83	0.43
2:CB:21:ARG:CZ	2:CB:39:ILE:CG1	2.89	0.43
2:CB:155:LEU:CD2	2:CB:157:ARG:O	2.66	0.43
2:CB:155:LEU:HD22	2:CB:157:ARG:O	2.18	0.43
2:CB:166:ASP:O	2:CB:169:LYS:N	2.52	0.43
4:CD:102:ASP:O	4:CD:117:ALA:HB1	2.19	0.43
4:CD:159:ARG:HG3	4:CD:159:ARG:NH1	2.33	0.43
5:CE:28:PHE:CD2	5:CE:51:VAL:HG22	2.53	0.43
5:CE:40:ARG:HH11	5:CE:40:ARG:HG2	1.84	0.43
5:CE:137:GLU:O	5:CE:140:ARG:HB3	2.18	0.43
6:CF:10:LEU:O	6:CF:12:PRO:N	2.51	0.43
9:CI:26:VAL:HG12	9:CI:27:THR:N	2.34	0.43
11:CK:34:ASP:C	11:CK:36:ASP:H	2.21	0.43
12:CL:82:VAL:CG1	12:CL:105:TYR:HD1	2.27	0.43
15:CO:82:ILE:O	15:CO:83:GLU:C	2.57	0.43
19:CS:13:ASP:O	19:CS:15:LEU:N	2.52	0.43
19:CS:46:GLY:N	19:CS:62:ILE:HG23	2.34	0.43
19:CS:51:VAL:CG1	19:CS:52:TYR:N	2.82	0.43
19:CS:67:VAL:C	19:CS:69:HIS:N	2.69	0.43
20:CT:19:SER:O	20:CT:23:ARG:HB3	2.19	0.43
20:CT:57:ARG:CZ	20:CT:57:ARG:CB	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:45:U:H6	22:CW:45:U:H3'	1.83	0.43
25:CZ:67:HIS:CD2	25:CZ:80:VAL:HG13	2.53	0.43
25:CZ:259:ALA:O	25:CZ:260:PRO:O	2.35	0.43
27:D1:84:GLY:C	27:D1:86:SER:N	2.70	0.43
29:D3:6:VAL:HG12	29:D3:56:VAL:HG13	2.00	0.43
32:D6:22:ALA:CB	32:D6:39:TYR:CZ	3.02	0.43
33:D7:20:ALA:C	33:D7:22:MET:N	2.70	0.43
34:D8:17:THR:OG1	34:D8:21:LYS:HB2	2.19	0.43
36:DA:17:G:H21	36:DA:555:U:H5''	1.84	0.43
36:DA:70:G:H2'	36:DA:113:G:O2'	2.19	0.43
36:DA:83:G:HO2'	36:DA:102:G:N2	2.16	0.43
36:DA:139(A):G:H3'	36:DA:140:G:H8	1.83	0.43
36:DA:597:U:H4'	48:DP:15:ARG:NE	2.33	0.43
36:DA:671:C:H2'	36:DA:672:C:C6	2.54	0.43
36:DA:1314:C:H6	36:DA:1314:C:C5'	2.22	0.43
36:DA:1631(A):A:O2'	36:DA:1632:A:H5'	2.18	0.43
36:DA:1805:U:H5''	39:DD:250:TRP:CD2	2.53	0.43
36:DA:2165:G:C6	36:DA:2166:G:C6	3.07	0.43
36:DA:2252:G:H2'	36:DA:2253:G:O4'	2.19	0.43
36:DA:2292:C:C2	36:DA:2341:G:N2	2.87	0.43
36:DA:2306:C:H41	36:DA:2311:A:H8	1.66	0.43
36:DA:2370:G:H2'	36:DA:2371:G:C8	2.53	0.43
36:DA:2371:G:C2	36:DA:2372:G:C4	3.06	0.43
36:DA:2554:U:C2	36:DA:2555:U:H5	2.36	0.43
36:DA:2635:C:C5'	40:DE:78:LEU:HD12	2.48	0.43
36:DA:2643:G:N2	36:DA:2772:C:C2	2.87	0.43
36:DA:2726:U:H6	47:DO:67:LYS:HZ3	1.67	0.43
36:DA:2762:G:C8	36:DA:2762:G:C5'	2.98	0.43
37:DB:33:G:H2'	37:DB:34:U:O4'	2.19	0.43
38:DC:6:ARG:CZ	38:DC:34:THR:HB	2.49	0.43
38:DC:182:PRO:HD2	38:DC:183:GLU:OE2	2.19	0.43
39:DD:101:GLU:HG2	39:DD:102:LYS:N	2.32	0.43
41:DF:7:TYR:HD2	41:DF:16:GLY:HA3	1.83	0.43
41:DF:45:ARG:NH1	41:DF:97:TYR:CE1	2.87	0.43
42:DG:63:ILE:HD13	42:DG:141:PHE:CE2	2.53	0.43
43:DH:19:VAL:CG1	43:DH:20:ALA:N	2.78	0.43
43:DH:135:GLY:HA3	43:DH:141:VAL:HG22	1.99	0.43
46:DN:117:PHE:O	46:DN:118:LYS:C	2.57	0.43
46:DN:131:GLN:NE2	46:DN:133:GLN:N	2.67	0.43
47:DO:112:MET:HA	47:DO:112:MET:CE	2.48	0.43
48:DP:51:PHE:HB3	48:DP:52:GLU:H	1.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:61:ARG:H	48:DP:61:ARG:HG3	1.30	0.43
49:DQ:34:LEU:HD12	49:DQ:130:LYS:C	2.38	0.43
50:DR:13:HIS:ND1	50:DR:13:HIS:C	2.72	0.43
50:DR:32:GLY:O	50:DR:115:GLU:HA	2.19	0.43
50:DR:101:ALA:O	50:DR:102:GLU:HB2	2.18	0.43
51:DS:49:VAL:CG1	51:DS:50:SER:N	2.72	0.43
51:DS:63:THR:O	51:DS:64:GLU:C	2.56	0.43
51:DS:90:GLY:C	51:DS:92:TYR:H	2.21	0.43
52:DT:31:SER:HG	52:DT:32:TYR:HD2	1.62	0.43
52:DT:99:LEU:O	52:DT:101:PHE:N	2.52	0.43
58:DZ:10:ARG:HG3	58:DZ:12:GLY:H	1.84	0.43
1:AA:8:A:H2'	1:AA:8:A:P	2.58	0.43
1:AA:657:G:H2'	1:AA:658:G:H8	1.82	0.43
1:AA:1001(A):G:O2'	1:AA:1002:G:H5'	2.18	0.43
1:AA:1031:G:O2'	1:AA:1032:G:H5'	2.19	0.43
1:AA:1085:U:H5'	1:AA:1094:G:N2	2.34	0.43
1:AA:1342:C:O5'	1:AA:1342:C:H6	2.01	0.43
1:AA:1423:G:N2	1:AA:1478:C:C2	2.87	0.43
2:AB:58:ILE:O	2:AB:61:LEU:N	2.52	0.43
2:AB:61:LEU:O	2:AB:64:ARG:HG2	2.18	0.43
2:AB:107:THR:CG2	2:AB:110:GLN:NE2	2.71	0.43
2:AB:157:ARG:CZ	2:AB:157:ARG:HB3	2.47	0.43
2:AB:223:ILE:O	2:AB:224:GLN:C	2.57	0.43
3:AC:203:PHE:CE1	3:AC:205:GLY:O	2.71	0.43
5:AE:6:PHE:CB	5:AE:34:VAL:HG22	2.49	0.43
5:AE:47:LYS:H	5:AE:57:LYS:NZ	2.16	0.43
5:AE:76:ILE:HD12	5:AE:91:LEU:HB3	2.01	0.43
5:AE:79:GLU:HB3	5:AE:93:PRO:HD3	2.00	0.43
9:AI:111:ARG:HG2	9:AI:112:LYS:N	2.33	0.43
10:AJ:32:ALA:CB	10:AJ:75:ILE:HG13	2.38	0.43
10:AJ:49:VAL:CG2	14:AN:41:ARG:CB	2.95	0.43
11:AK:93:GLN:O	11:AK:94:ALA:C	2.56	0.43
12:AL:75:HIS:HD2	12:AL:77:LEU:HB2	1.84	0.43
12:AL:102:ARG:HA	12:AL:102:ARG:HD2	1.64	0.43
13:AM:52:GLU:HA	13:AM:55:ARG:HD3	2.00	0.43
15:AO:39:LEU:O	15:AO:42:HIS:N	2.52	0.43
15:AO:81:LEU:HD11	15:AO:85:LEU:HD12	1.99	0.43
18:AR:25:THR:CG2	18:AR:42:ARG:HH11	2.32	0.43
18:AR:70:ILE:O	18:AR:71:LYS:C	2.57	0.43
19:AS:15:LEU:HD21	19:AS:33:THR:OG1	2.18	0.43
19:AS:22:LEU:HD13	19:AS:22:LEU:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:39:THR:HG22	19:AS:40:ILE:N	2.34	0.43
22:AV:17:C:H3'	22:AV:18:G:C5'	2.48	0.43
25:AZ:19:HIS:CD2	25:AZ:115:GLN:H	2.32	0.43
25:AZ:315:LYS:HA	25:AZ:372:VAL:O	2.18	0.43
25:AZ:356:PRO:CB	25:AZ:357:PRO:HD2	2.48	0.43
26:B0:42:GLY:O	26:B0:43:THR:HB	2.19	0.43
27:B1:24:ALA:HB2	27:B1:32:LYS:CE	2.48	0.43
28:B2:17:SER:OG	28:B2:20:GLU:HG2	2.18	0.43
35:B9:1:MET:HE1	36:BA:2477:C:H3'	2.00	0.43
36:BA:340:A:H2'	36:BA:341:G:O4'	2.19	0.43
36:BA:654:A:H4'	36:BA:654(A):G:O5'	2.18	0.43
36:BA:654(H):G:H2'	36:BA:654(I):C:C5'	2.49	0.43
36:BA:654(V):A:P	36:BA:655:A:H3'	2.58	0.43
36:BA:716:A:H3'	36:BA:717:G:H5''	1.99	0.43
36:BA:733:G:O6	36:BA:761:A:C5	2.72	0.43
36:BA:805:G:N2	36:BA:829:A:P	2.92	0.43
36:BA:953:A:C2	36:BA:965:C:O2	2.72	0.43
36:BA:1006:C:H42	36:BA:1137:G:H1	1.66	0.43
36:BA:1375:C:H2'	36:BA:1376:C:O4'	2.18	0.43
36:BA:1441:G:H4'	36:BA:1627:G:O3'	2.18	0.43
36:BA:1665:A:C2'	36:BA:1666:G:C5'	2.79	0.43
36:BA:1755:A:O2'	36:BA:1756:G:H5'	2.18	0.43
36:BA:1791:A:H3'	36:BA:1792:G:H8	1.83	0.43
36:BA:1827:C:H1'	36:BA:1970:A:C2	2.53	0.43
36:BA:1863:G:C2	36:BA:1880:C:O2	2.72	0.43
36:BA:2133:G:C1'	36:BA:2157:G:H22	2.32	0.43
36:BA:2177:C:H2'	36:BA:2178:C:O2	2.19	0.43
36:BA:2189:U:C3'	36:BA:2190:G:H4'	2.48	0.43
36:BA:2255:G:H2'	36:BA:2256:G:O4'	2.18	0.43
36:BA:2352:A:C2	36:BA:2366:A:C2	3.07	0.43
36:BA:2435:A:C2'	36:BA:2436:G:O5'	2.66	0.43
36:BA:2709:G:H2'	36:BA:2710:C:C6	2.53	0.43
36:BA:2729:G:H2'	36:BA:2730:C:C6	2.54	0.43
36:BA:2878:U:O5'	36:BA:2878:U:H6	2.02	0.43
39:BD:83:GLU:CB	39:BD:92:ILE:HD11	2.45	0.43
39:BD:155:LEU:HD12	39:BD:155:LEU:N	2.33	0.43
40:BE:101:ARG:HG3	40:BE:101:ARG:HH11	1.84	0.43
41:BF:13:SER:HA	41:BF:14:PRO:HD3	1.82	0.43
45:BK:31:UNK:C	45:BK:63:UNK:HA	2.48	0.43
46:BN:117:PHE:O	46:BN:118:LYS:C	2.57	0.43
47:BO:8:LEU:HD13	47:BO:8:LEU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:69:VAL:O	51:BS:69:VAL:HG22	2.19	0.43
54:BV:95:LEU:HD23	54:BV:96:ILE:N	2.33	0.43
57:BY:4:LYS:HG3	57:BY:5:MET:N	2.34	0.43
58:BZ:45:ASP:O	58:BZ:48:PHE:N	2.51	0.43
58:BZ:81:ARG:CZ	58:BZ:81:ARG:CB	2.84	0.43
58:BZ:102:LEU:HD22	58:BZ:137:ILE:HB	1.99	0.43
58:BZ:110:GLY:N	58:BZ:145:GLU:OE1	2.51	0.43
1:CA:62:U:O5'	1:CA:62:U:H6	2.01	0.43
1:CA:116:A:O2'	1:CA:117:G:H5'	2.19	0.43
1:CA:542:G:O2'	1:CA:543:C:H5'	2.18	0.43
1:CA:564:C:N3	17:CQ:31:LEU:HD11	2.33	0.43
1:CA:568:G:C6	1:CA:569:C:N4	2.87	0.43
1:CA:628:G:H2'	1:CA:629:G:C8	2.54	0.43
1:CA:657:G:N2	1:CA:749:C:N3	2.61	0.43
1:CA:851:G:C4	1:CA:852:G:C8	3.06	0.43
1:CA:930:C:H2'	1:CA:931:C:H6	1.83	0.43
1:CA:1053:G:O6	1:CA:1199:U:H2'	2.19	0.43
1:CA:1107:C:N4	1:CA:1108:G:C5	2.87	0.43
1:CA:1209:C:O2'	1:CA:1210:C:H5'	2.19	0.43
1:CA:1327:C:OP1	21:CU:20:LYS:HB3	2.18	0.43
1:CA:1467:G:O5'	1:CA:1467:G:H8	2.02	0.43
2:CB:170:GLU:C	2:CB:172:ILE:N	2.70	0.43
3:CC:3:ASN:O	3:CC:4:LYS:HB2	2.18	0.43
3:CC:18:TRP:HB2	3:CC:21:ARG:HB3	1.99	0.43
4:CD:9:CYS:SG	4:CD:32:ALA:HB2	2.58	0.43
4:CD:12:CYS:HA	4:CD:19:LEU:HD13	2.01	0.43
4:CD:49:ARG:O	4:CD:51:PRO:CD	2.66	0.43
4:CD:119:GLN:O	4:CD:123:HIS:CD2	2.71	0.43
4:CD:150:GLU:O	4:CD:152:SER:N	2.52	0.43
6:CF:27:GLN:O	6:CF:28:ARG:C	2.56	0.43
7:CG:69:VAL:N	7:CG:138:LYS:HZ2	2.17	0.43
7:CG:104:LEU:CD2	7:CG:104:LEU:H	2.32	0.43
9:CI:18:PHE:O	9:CI:19:LEU:HD23	2.18	0.43
10:CJ:3:LYS:N	10:CJ:74:ILE:O	2.52	0.43
12:CL:82:VAL:HG12	12:CL:105:TYR:CD1	2.44	0.43
12:CL:94:PRO:O	12:CL:96:VAL:HG23	2.19	0.43
17:CQ:63:ARG:HG2	17:CQ:64:PRO:HD2	2.01	0.43
19:CS:15:LEU:O	19:CS:19:VAL:N	2.52	0.43
20:CT:43:LEU:HB3	20:CT:48:LYS:CG	2.48	0.43
21:CU:6:ARG:HD3	21:CU:15:ARG:HH11	1.82	0.43
22:CV:37:A:C2	23:CX:19:U:N3	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:34:G:N2	23:CX:18:G:H22	2.11	0.43
22:CW:35:A:C6	22:CW:36:A:N1	2.87	0.43
22:CW:55:U:C5	22:CW:58:A:OP2	2.68	0.43
24:CY:76:A:H61	25:CZ:234:ARG:CZ	2.32	0.43
25:CZ:140:MET:HA	25:CZ:140:MET:HE2	2.00	0.43
25:CZ:322:VAL:HB	25:CZ:366:ASP:O	2.19	0.43
26:D0:42:GLY:O	26:D0:43:THR:HB	2.19	0.43
27:D1:6:GLU:CD	27:D1:60:PHE:HD1	2.22	0.43
28:D2:69:ARG:C	28:D2:70:GLN:HG2	2.38	0.43
29:D3:15:TYR:CE2	29:D3:52:HIS:ND1	2.87	0.43
31:D5:24:ALA:O	31:D5:25:LEU:HG	2.18	0.43
32:D6:20:ASN:C	32:D6:21:TYR:CG	2.92	0.43
34:D8:41:ILE:HD12	36:DA:2419:U:OP1	2.19	0.43
36:DA:483:A:OP2	36:DA:484:C:N4	2.52	0.43
36:DA:486:C:O2'	55:DW:56:ALA:HB1	2.19	0.43
36:DA:510:C:OP1	36:DA:511:U:OP2	2.36	0.43
36:DA:531:C:H5	36:DA:2035:G:C4	2.37	0.43
36:DA:531:C:OP1	36:DA:561:G:N1	2.50	0.43
36:DA:587:C:N4	48:DP:33:ARG:HB2	2.34	0.43
36:DA:654:A:C8	36:DA:654(V):A:H4'	2.53	0.43
36:DA:830:G:H1'	36:DA:2448:A:N1	2.34	0.43
36:DA:864:G:OP2	49:DQ:22:LYS:HG3	2.19	0.43
36:DA:911:A:H5''	36:DA:912:C:H5''	2.00	0.43
36:DA:966:G:H5'	36:DA:2272:U:H1'	2.01	0.43
36:DA:1392:A:N6	36:DA:1393:A:N1	2.67	0.43
36:DA:1528:A:N6	36:DA:1544:A:C2	2.87	0.43
36:DA:1678:G:H22	36:DA:1989:G:H1	1.66	0.43
36:DA:1803:A:H4'	39:DD:259:THR:CG2	2.49	0.43
36:DA:1969:A:O2'	36:DA:1972:A:H1'	2.18	0.43
36:DA:1982:C:H2'	36:DA:1983:C:H6	1.83	0.43
36:DA:2050:C:C4	36:DA:2051:A:C6	3.06	0.43
36:DA:2078:C:O2'	36:DA:2079:U:H5'	2.19	0.43
36:DA:2115:G:H5'	36:DA:2167:U:O2'	2.19	0.43
36:DA:2267:A:N3	36:DA:2267:A:H3'	2.34	0.43
36:DA:2457:U:H2'	36:DA:2458:G:H5'	1.99	0.43
36:DA:2598:A:H5''	39:DD:235:GLY:HA3	2.01	0.43
36:DA:2603:G:C6	36:DA:2604:U:C4	3.06	0.43
42:DG:83:ARG:C	42:DG:85:GLY:N	2.72	0.43
43:DH:24:VAL:CG1	43:DH:25:LYS:N	2.81	0.43
47:DO:41:ALA:O	47:DO:58:VAL:N	2.51	0.43
47:DO:90:GLN:O	47:DO:92:GLU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:23:PRO:CG	48:DP:33:ARG:HE	2.32	0.43
48:DP:140:ALA:O	48:DP:141:ALA:HB3	2.18	0.43
49:DQ:6:ARG:C	49:DQ:7:MET:HG3	2.37	0.43
51:DS:87:PHE:CG	51:DS:88:ASP:N	2.86	0.43
53:DU:83:LEU:H	53:DU:83:LEU:HD12	1.84	0.43
54:DV:36:PRO:HA	54:DV:56:SER:HB3	1.99	0.43
54:DV:64:HIS:ND1	54:DV:92:THR:CG2	2.81	0.43
1:AA:310:G:H2'	1:AA:311:C:H6	1.84	0.43
1:AA:325:A:N6	1:AA:326:G:N1	2.66	0.43
1:AA:346:G:N3	1:AA:346:G:C2'	2.81	0.43
1:AA:374:A:N1	1:AA:390:C:O2'	2.51	0.43
1:AA:539:A:N6	1:AA:540:G:O6	2.52	0.43
1:AA:668:G:H2'	1:AA:669:U:H6	1.83	0.43
1:AA:694:A:HO2'	22:AW:38:A:HO2'	1.66	0.43
1:AA:784:C:H2'	1:AA:785:G:H8	1.84	0.43
1:AA:973:G:P	10:AJ:57:LYS:NZ	2.92	0.43
1:AA:1075:C:H4'	1:AA:1101:A:C6	2.53	0.43
1:AA:1075:C:OP1	2:AB:179:LYS:HE2	2.19	0.43
1:AA:1206:G:C6	1:AA:1207:G:C5	3.07	0.43
1:AA:1229:A:H2'	1:AA:1230:C:C6	2.54	0.43
1:AA:1378:C:OP2	7:AG:7:ALA:HB2	2.19	0.43
1:AA:1442(A):G:H5''	52:BT:118:ARG:NH1	2.31	0.43
3:AC:77:ILE:CA	3:AC:83:ARG:HB3	2.49	0.43
3:AC:164:ARG:NH2	3:AC:166:GLU:OE2	2.52	0.43
4:AD:160:GLN:H	4:AD:160:GLN:HG3	1.47	0.43
4:AD:196:LEU:C	4:AD:198:VAL:H	2.22	0.43
6:AF:10:LEU:N	6:AF:10:LEU:CD1	2.80	0.43
7:AG:61:VAL:O	7:AG:64:GLN:N	2.52	0.43
8:AH:127:LEU:HD13	8:AH:127:LEU:O	2.18	0.43
13:AM:70:LEU:CD2	13:AM:71:ARG:N	2.82	0.43
13:AM:87:TYR:N	19:AS:73:GLU:O	2.52	0.43
17:AQ:59:ILE:HG23	17:AQ:71:PHE:HB3	2.01	0.43
18:AR:53:ARG:CZ	18:AR:60:ALA:H	2.32	0.43
18:AR:85:LEU:HD12	18:AR:86:VAL:H	1.83	0.43
19:AS:68:GLY:O	19:AS:70:LYS:HE3	2.19	0.43
22:AW:55:U:C5	22:AW:58:A:OP2	2.67	0.43
27:B1:23:LYS:O	27:B1:29:GLY:O	2.37	0.43
27:B1:45:ASN:HA	36:BA:2230:G:O4'	2.19	0.43
31:B5:59:GLU:O	31:B5:59:GLU:HG3	2.19	0.43
35:B9:1:MET:HA	35:B9:4:ARG:NH2	2.34	0.43
36:BA:64:A:O2'	36:BA:65:C:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:259:G:H2'	36:BA:260:G:H8	1.84	0.43
36:BA:597:U:H4'	48:BP:15:ARG:NE	2.34	0.43
36:BA:993:G:C5	36:BA:994:C:H5	2.36	0.43
36:BA:997:G:C2	36:BA:998:C:C4	3.06	0.43
36:BA:1017:G:N3	36:BA:1017:G:H2'	2.34	0.43
36:BA:1131:G:H21	46:BN:73:THR:HG22	1.83	0.43
36:BA:1131:G:N2	46:BN:75:TYR:HB2	2.34	0.43
36:BA:1155:A:P	53:BU:55:ARG:HD2	2.58	0.43
36:BA:1335:U:H2'	36:BA:1336:A:H8	1.79	0.43
36:BA:1343:G:N2	36:BA:1405:U:N3	2.67	0.43
36:BA:1356:G:O2'	36:BA:1357:U:H5'	2.19	0.43
36:BA:1564:C:H2'	36:BA:1565:C:C6	2.53	0.43
36:BA:1802:A:N1	36:BA:1822:G:H1'	2.33	0.43
36:BA:1813:G:H4'	39:BD:44:ASN:O	2.18	0.43
36:BA:1816:G:H3'	39:BD:62:TYR:CE2	2.54	0.43
36:BA:1908:C:H42	36:BA:1922:G:H1	1.67	0.43
36:BA:2101:G:C6	36:BA:2102:U:C5	3.07	0.43
36:BA:2334:G:C5'	51:BS:13:ARG:HD3	2.48	0.43
36:BA:2661:G:H2'	36:BA:2662:A:C8	2.53	0.43
36:BA:2842:G:H1	36:BA:2875:C:H42	1.67	0.43
36:BA:2870:C:H5''	50:BR:65:LEU:HD21	1.99	0.43
37:BB:56:G:O2'	37:BB:57:A:P	2.77	0.43
38:BC:82:LYS:HA	38:BC:85:GLU:HB3	2.00	0.43
39:BD:85:ASP:CG	39:BD:88:ARG:NH1	2.73	0.43
39:BD:132:PRO:HG3	39:BD:190:TYR:CE1	2.54	0.43
40:BE:101:ARG:HG3	40:BE:101:ARG:NH1	2.34	0.43
42:BG:2:PRO:O	42:BG:3:LEU:HB2	2.17	0.43
42:BG:47:LYS:NZ	42:BG:81:LYS:HG3	2.32	0.43
46:BN:128:HIS:O	46:BN:128:HIS:CG	2.72	0.43
48:BP:7:ARG:CB	48:BP:8:PRO:CD	2.94	0.43
48:BP:24:GLY:HA2	48:BP:33:ARG:NH1	2.33	0.43
49:BQ:56:ARG:O	49:BQ:57:HIS:C	2.55	0.43
51:BS:76:LYS:O	51:BS:79:ALA:N	2.52	0.43
52:BT:11:GLU:O	52:BT:14:TYR:CE1	2.72	0.43
52:BT:50:ILE:N	52:BT:50:ILE:HD12	2.34	0.43
53:BU:55:ARG:CZ	53:BU:55:ARG:HB2	2.49	0.43
53:BU:99:ALA:HB2	53:BU:106:PHE:CE1	2.53	0.43
53:BU:99:ALA:HB2	53:BU:106:PHE:CZ	2.53	0.43
54:BV:18:LEU:O	54:BV:19:LYS:HB3	2.19	0.43
54:BV:38:LEU:O	54:BV:51:VAL:HG12	2.18	0.43
55:BW:50:VAL:HG22	55:BW:105:VAL:HG23	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:17:SER:HB3	57:BY:71:LYS:HB3	2.01	0.43
58:BZ:71:VAL:HG12	58:BZ:72:ARG:N	2.34	0.43
58:BZ:126:VAL:HG23	58:BZ:126:VAL:O	2.18	0.43
1:CA:35:G:C5	1:CA:36:C:C4	3.07	0.43
1:CA:148:G:H2'	1:CA:149:A:H8	1.83	0.43
1:CA:342:C:C4	1:CA:343:U:N3	2.87	0.43
1:CA:396:G:O2'	1:CA:398:C:OP1	2.23	0.43
1:CA:404:U:H5'	4:CD:122:ARG:CD	2.49	0.43
1:CA:406:G:C2	1:CA:407:G:C5	3.07	0.43
1:CA:540:G:C4	1:CA:541:G:C8	3.06	0.43
1:CA:584:G:H2'	1:CA:585:G:H8	1.78	0.43
1:CA:670:G:C2	1:CA:671:G:C4	3.07	0.43
1:CA:976:G:OP1	14:CN:32:SER:N	2.50	0.43
1:CA:976:G:P	14:CN:32:SER:H	2.41	0.43
1:CA:1010:G:H2'	1:CA:1011:G:C8	2.53	0.43
1:CA:1074:G:C1'	2:CB:104:ASN:HD22	2.30	0.43
1:CA:1211:U:H5'	1:CA:1212:U:OP1	2.19	0.43
1:CA:1245:A:N1	1:CA:1293:G:C6	2.87	0.43
1:CA:1348:U:H4'	9:CI:120:ARG:CG	2.49	0.43
1:CA:1372:U:H2'	1:CA:1373:G:C5'	2.49	0.43
1:CA:1442:G:C2'	1:CA:1442(B):A:C2	2.99	0.43
1:CA:1521:G:H2'	1:CA:1522:U:C6	2.54	0.43
2:CB:42:ILE:HD13	2:CB:203:GLY:HA2	2.00	0.43
2:CB:79:ASP:C	2:CB:81:VAL:N	2.71	0.43
3:CC:63:ASN:C	3:CC:64:VAL:HG23	2.39	0.43
3:CC:64:VAL:CG1	3:CC:66:VAL:CG2	2.97	0.43
5:CE:76:ILE:HG12	5:CE:77:PRO:N	2.34	0.43
5:CE:98:THR:HG22	5:CE:99:GLY:N	2.33	0.43
5:CE:119:LEU:HD23	5:CE:119:LEU:HA	1.87	0.43
7:CG:118:VAL:CG2	7:CG:119:ARG:H	2.19	0.43
7:CG:121:ALA:O	7:CG:122:HIS:C	2.57	0.43
8:CH:120:THR:H	8:CH:123:GLU:HB2	1.84	0.43
10:CJ:25:GLU:H	10:CJ:25:GLU:HG2	1.45	0.43
11:CK:57:THR:CG2	11:CK:60:ALA:HB3	2.49	0.43
13:CM:125:ARG:NH1	36:DA:1913:A:C8	2.87	0.43
15:CO:4:THR:C	15:CO:6:GLU:N	2.71	0.43
15:CO:17:ARG:CD	15:CO:26:GLU:HG3	2.44	0.43
19:CS:45:VAL:O	19:CS:47:HIS:N	2.45	0.43
21:CU:5:ASP:C	21:CU:7:ARG:H	2.21	0.43
21:CU:7:ARG:O	21:CU:21:TYR:CD2	2.71	0.43
22:CV:1:G:H2'	22:CV:2:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:69:G:H2'	22:CW:70:G:H5'	2.01	0.43
24:CY:63:G:O2'	24:CY:64:C:H5'	2.19	0.43
25:CZ:169:PRO:O	25:CZ:171:ILE:CD1	2.67	0.43
25:CZ:382:GLU:OE2	25:CZ:402:LYS:HA	2.19	0.43
28:D2:35:LEU:HA	28:D2:38:GLN:HG3	2.00	0.43
30:D4:14:ILE:N	30:D4:14:ILE:CD1	2.82	0.43
32:D6:41:PRO:O	32:D6:45:LYS:HB3	2.19	0.43
35:D9:2:LYS:C	35:D9:34:GLN:HE22	2.22	0.43
36:DA:64:A:H2'	36:DA:65:C:C6	2.54	0.43
36:DA:310:A:C4	36:DA:312:G:C8	3.07	0.43
36:DA:387:U:H6	36:DA:387:U:O5'	2.02	0.43
36:DA:478:A:C6	36:DA:480:A:C6	3.07	0.43
36:DA:479:A:N3	36:DA:481:G:O4'	2.51	0.43
36:DA:481:G:H1'	36:DA:506:G:H22	1.83	0.43
36:DA:610:G:H2'	36:DA:611:C:C6	2.54	0.43
36:DA:732:C:H2'	36:DA:733:G:C8	2.54	0.43
36:DA:819:A:O2'	36:DA:820:A:H5'	2.18	0.43
36:DA:996:A:C2'	36:DA:997:G:O5'	2.67	0.43
36:DA:1247:A:OP1	41:DF:95:ARG:NH2	2.52	0.43
36:DA:1299:G:H5'	36:DA:1301:A:H1'	2.01	0.43
36:DA:1324:G:N1	36:DA:1328:G:N1	2.67	0.43
36:DA:1380:G:C4	36:DA:1381:G:N7	2.87	0.43
36:DA:2037:G:H8	36:DA:2037:G:O5'	2.02	0.43
36:DA:2841:C:H2'	36:DA:2842:G:H8	1.76	0.43
36:DA:2856:C:O2'	36:DA:2857:G:H5'	2.18	0.43
37:DB:52:A:P	37:DB:52:A:H8	2.41	0.43
37:DB:96:U:H2'	37:DB:97:G:C8	2.53	0.43
39:DD:111:LEU:HD13	39:DD:111:LEU:C	2.39	0.43
39:DD:248:SER:CB	39:DD:249:PRO:CD	2.97	0.43
39:DD:266:SER:C	39:DD:267:SER:O	2.57	0.43
41:DF:116:ASP:O	41:DF:120:GLU:OE2	2.36	0.43
41:DF:123:LEU:HD12	41:DF:124:LEU:N	2.28	0.43
42:DG:106:LEU:HD12	42:DG:110:ALA:HB1	1.99	0.43
42:DG:129:GLY:O	42:DG:130:ASN:HB2	2.18	0.43
42:DG:178:PHE:O	42:DG:180:PHE:CE1	2.72	0.43
43:DH:38:SER:HA	43:DH:39:PRO:HD3	1.78	0.43
43:DH:52:VAL:HG12	43:DH:65:HIS:ND1	2.34	0.43
46:DN:128:HIS:CG	46:DN:128:HIS:O	2.72	0.43
47:DO:63:VAL:HG22	47:DO:83:ALA:O	2.19	0.43
48:DP:31:ALA:C	48:DP:33:ARG:H	2.22	0.43
51:DS:76:LYS:O	51:DS:79:ALA:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:17:ILE:CA	53:DU:20:LEU:HD23	2.48	0.43
54:DV:71:LEU:HD21	54:DV:84:LYS:HG2	1.99	0.43
55:DW:14:PRO:O	55:DW:15:ARG:C	2.57	0.43
55:DW:28:SER:HA	55:DW:70:TYR:CB	2.49	0.43
58:DZ:67:LEU:N	58:DZ:67:LEU:HD12	2.33	0.43
1:AA:64:G:H4'	1:AA:65:U:C5'	2.49	0.43
1:AA:363:A:N6	1:AA:364:A:N1	2.67	0.43
1:AA:375:U:C4	1:AA:376:G:N7	2.87	0.43
1:AA:534:U:H5'	1:AA:534:U:H6	1.84	0.43
1:AA:553:A:H2'	1:AA:554:C:H6	1.82	0.43
1:AA:689:C:C2'	1:AA:690:G:H5'	2.49	0.43
1:AA:730:G:H2'	1:AA:731:G:O4'	2.19	0.43
1:AA:1228:C:OP2	13:AM:111:LYS:HE2	2.19	0.43
1:AA:1258:G:O5'	1:AA:1258:G:H8	2.01	0.43
1:AA:1470:G:C2'	1:AA:1471:G:C8	2.87	0.43
2:AB:79:ASP:C	2:AB:81:VAL:N	2.72	0.43
2:AB:83:MET:C	2:AB:85:ALA:N	2.72	0.43
2:AB:155:LEU:CD2	2:AB:157:ARG:O	2.66	0.43
4:AD:79:PHE:CA	4:AD:93:PHE:HE2	2.31	0.43
6:AF:62:TRP:CD1	18:AR:35:ARG:NH1	2.87	0.43
7:AG:63:LYS:HZ3	7:AG:67:GLU:HB2	1.79	0.43
7:AG:87:VAL:HG21	7:AG:154:TYR:HB2	2.01	0.43
7:AG:152:ALA:O	7:AG:155:ARG:HG3	2.19	0.43
9:AI:16:ARG:O	9:AI:63:ILE:HG23	2.18	0.43
14:AN:55:GLY:O	14:AN:56:VAL:C	2.56	0.43
15:AO:4:THR:C	15:AO:6:GLU:N	2.71	0.43
16:AP:21:VAL:C	16:AP:22:THR:HG22	2.39	0.43
19:AS:51:VAL:HG22	19:AS:71:LEU:HD13	2.00	0.43
20:AT:43:LEU:HB3	20:AT:48:LYS:CG	2.48	0.43
20:AT:100:ILE:HD12	20:AT:100:ILE:N	2.34	0.43
22:AV:53:G:O2'	22:AV:54:U:H5'	2.18	0.43
25:AZ:97:ALA:CA	25:AZ:126:VAL:CG1	2.97	0.43
25:AZ:99:MET:HG3	25:AZ:128:VAL:HG22	2.01	0.43
26:B0:24:LYS:NZ	36:BA:2355:C:O2'	2.46	0.43
27:B1:3:LYS:CD	36:BA:1364:G:N7	2.82	0.43
27:B1:32:LYS:HB2	36:BA:387:U:O3'	2.18	0.43
28:B2:26:ARG:NH2	36:BA:137:C:O2'	2.52	0.43
32:B6:5:VAL:HG21	36:BA:2283:C:C5'	2.48	0.43
36:BA:310:A:C4	36:BA:312:G:C8	3.07	0.43
36:BA:695:G:N2	36:BA:696:G:H1'	2.34	0.43
36:BA:956:G:P	49:BQ:87:LYS:HG3	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1493:C:C4	36:BA:2206:G:O2'	2.70	0.43
36:BA:1666:G:O3'	47:BO:6:THR:HG23	2.18	0.43
36:BA:1747:G:H2'	36:BA:1747(A):G:C8	2.54	0.43
36:BA:1829:A:N6	36:BA:1977:A:N6	2.66	0.43
36:BA:1982:C:H2'	36:BA:1983:C:C6	2.54	0.43
36:BA:2092:U:H4'	36:BA:2093:G:C5'	2.47	0.43
36:BA:2112:G:C2	36:BA:2113:U:O4'	2.72	0.43
36:BA:2126:A:O2'	36:BA:2127:G:OP2	2.37	0.43
36:BA:2842:G:H1	36:BA:2875:C:N4	2.17	0.43
37:BB:107:G:O2'	37:BB:108:U:H5'	2.18	0.43
39:BD:62:TYR:HE1	39:BD:64:ILE:HA	1.83	0.43
39:BD:83:GLU:O	39:BD:92:ILE:HD13	2.19	0.43
39:BD:96:HIS:CE1	39:BD:102:LYS:CE	3.02	0.43
40:BE:95:ILE:N	40:BE:95:ILE:CD1	2.81	0.43
42:BG:166:ASP:C	42:BG:168:GLU:N	2.72	0.43
48:BP:18:ARG:O	48:BP:20:GLY:N	2.52	0.43
48:BP:85:LEU:O	48:BP:89:ALA:HB2	2.19	0.43
49:BQ:39:PRO:HA	49:BQ:99:PRO:HD3	2.01	0.43
49:BQ:63:LYS:CE	49:BQ:65:PHE:HE1	2.31	0.43
50:BR:3:HIS:O	50:BR:4:LEU:C	2.58	0.43
51:BS:68:GLN:C	51:BS:70:GLY:H	2.22	0.43
52:BT:29:ARG:HB3	52:BT:85:LYS:HA	2.00	0.43
52:BT:109:GLU:HA	52:BT:112:ARG:HD3	1.99	0.43
54:BV:1:MET:O	54:BV:2:PHE:HB2	2.19	0.43
56:BX:26:TYR:N	56:BX:26:TYR:CD1	2.86	0.43
1:CA:9:G:C5'	5:CE:122:GLU:OE1	2.67	0.43
1:CA:110:C:O2'	16:CP:25:ARG:O	2.37	0.43
1:CA:255:G:H1'	17:CQ:16:GLN:HE22	1.82	0.43
1:CA:937:A:C2	1:CA:1379:G:C6	3.06	0.43
1:CA:961:U:O2'	1:CA:962:C:O5'	2.36	0.43
1:CA:995:C:O2'	1:CA:996:A:P	2.77	0.43
1:CA:1069:C:H42	1:CA:1106:G:H1	1.67	0.43
1:CA:1145:C:O2'	1:CA:1146:A:O5'	2.37	0.43
1:CA:1150:U:O2'	10:CJ:41:PRO:CD	2.66	0.43
1:CA:1249:C:H6	1:CA:1249:C:C5'	2.26	0.43
1:CA:1282:C:C2	1:CA:1283:G:N7	2.87	0.43
1:CA:1350:A:O2'	1:CA:1351:U:H5'	2.19	0.43
1:CA:1507:A:C8	1:CA:1507:A:C5'	3.01	0.43
2:CB:86:GLU:C	2:CB:88:ALA:H	2.22	0.43
2:CB:92:TYR:HE1	2:CB:150:SER:HB2	1.83	0.43
2:CB:111:ARG:O	2:CB:112:VAL:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:175:ARG:O	2:CB:176:GLU:C	2.57	0.43
3:CC:34:LEU:CD2	3:CC:38:ARG:HE	2.31	0.43
3:CC:56:ASP:O	3:CC:57:ILE:HG13	2.19	0.43
4:CD:100:ARG:HG3	4:CD:100:ARG:HH11	1.82	0.43
7:CG:9:VAL:HG22	7:CG:94:ARG:HH11	1.83	0.43
7:CG:31:MET:SD	7:CG:36:LYS:N	2.92	0.43
8:CH:1:MET:HE2	8:CH:1:MET:N	2.32	0.43
8:CH:39:LEU:HD13	8:CH:39:LEU:HA	1.80	0.43
9:CI:79:LEU:HD22	9:CI:101:PHE:O	2.19	0.43
10:CJ:28:ARG:C	10:CJ:30:SER:N	2.70	0.43
13:CM:15:VAL:CG2	13:CM:16:ASP:N	2.82	0.43
13:CM:79:LYS:O	13:CM:82:MET:CG	2.67	0.43
14:CN:48:ALA:N	14:CN:53:LEU:CD1	2.80	0.43
16:CP:12:LYS:C	16:CP:14:ASN:N	2.72	0.43
16:CP:53:VAL:O	16:CP:54:GLU:C	2.57	0.43
19:CS:22:LEU:O	19:CS:22:LEU:HD13	2.18	0.43
21:CU:19:GLY:H	21:CU:22:ARG:HB3	1.84	0.43
22:CV:70:G:C2'	22:CV:71:G:H5'	2.49	0.43
25:CZ:224:PRO:O	25:CZ:240:GLY:HA3	2.18	0.43
25:CZ:315:LYS:HG2	25:CZ:373:GLU:HG3	2.01	0.43
27:D1:50:ARG:CZ	36:DA:2200:C:C5'	2.97	0.43
29:D3:8:LEU:CD2	29:D3:8:LEU:O	2.67	0.43
33:D7:43:THR:O	33:D7:44:PRO:C	2.57	0.43
36:DA:212:G:C2'	36:DA:213:A:H5'	2.49	0.43
36:DA:360:G:C4	36:DA:361:G:C8	3.07	0.43
36:DA:598:G:H2'	36:DA:599:G:C1'	2.49	0.43
36:DA:643:A:O2'	36:DA:644:A:H5'	2.19	0.43
36:DA:729:G:C8	39:DD:208:LYS:HD2	2.53	0.43
36:DA:755:C:H2'	36:DA:756:C:H6	1.82	0.43
36:DA:943:U:OP2	48:DP:38:GLN:CG	2.67	0.43
36:DA:1200:C:C2	36:DA:1246:A:C2	3.07	0.43
36:DA:1244:G:H5'	36:DA:1244:G:C8	2.54	0.43
36:DA:1343:G:N2	36:DA:1405:U:N3	2.66	0.43
36:DA:1345:C:H2'	36:DA:1346:G:C5'	2.46	0.43
36:DA:1567:A:C5'	39:DD:58:HIS:HD2	2.31	0.43
36:DA:2022:U:O2'	36:DA:2617:C:C5'	2.60	0.43
36:DA:2110:G:O2'	36:DA:2120:G:OP2	2.30	0.43
36:DA:2112:G:C2	36:DA:2113:U:O4'	2.72	0.43
36:DA:2635:C:C2'	36:DA:2636:U:O5'	2.67	0.43
37:DB:14:U:OP2	37:DB:70:C:O2'	2.36	0.43
37:DB:40:U:C3'	37:DB:41:U:H5''	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:106:ILE:HD11	39:DD:196:VAL:HG22	2.00	0.43
39:DD:273:ARG:CG	39:DD:273:ARG:NH1	2.82	0.43
40:DE:82:ARG:HD2	40:DE:82:ARG:HA	1.74	0.43
40:DE:167:VAL:O	40:DE:167:VAL:HG22	2.19	0.43
41:DF:7:TYR:CD2	41:DF:16:GLY:HA3	2.54	0.43
42:DG:34:LEU:HA	42:DG:161:THR:HA	2.01	0.43
42:DG:79:ASN:O	42:DG:80:PHE:HB2	2.18	0.43
46:DN:132:ALA:O	46:DN:133:GLN:CB	2.65	0.43
48:DP:75:ILE:H	48:DP:75:ILE:CD1	2.29	0.43
49:DQ:56:ARG:O	49:DQ:57:HIS:C	2.57	0.43
50:DR:10:LEU:O	50:DR:11:ASN:CB	2.65	0.43
52:DT:88:ILE:HG22	52:DT:89:VAL:CG2	2.40	0.43
53:DU:37:GLU:HA	53:DU:40:PHE:HD1	1.74	0.43
53:DU:59:ARG:O	53:DU:61:TRP:N	2.52	0.43
55:DW:64:MET:CB	55:DW:69:LEU:HD21	2.49	0.43
55:DW:82:LEU:HB3	55:DW:84:ARG:HH12	1.82	0.43
1:AA:163:C:H2'	1:AA:164:U:O4'	2.18	0.43
1:AA:264:U:H2'	1:AA:265:G:C8	2.53	0.43
1:AA:382:A:C2	1:AA:383:A:C4	3.07	0.43
1:AA:676:A:O2'	1:AA:677:U:H5'	2.18	0.43
1:AA:704:A:O2'	1:AA:705:U:H5'	2.19	0.43
1:AA:966:G:HO2'	1:AA:967:C:H6	1.65	0.43
1:AA:1095:U:C5'	1:AA:1109:C:O2	2.67	0.43
1:AA:1269:A:H2'	1:AA:1270:C:C5'	2.48	0.43
1:AA:1359:C:OP2	14:AN:35:ARG:NH1	2.52	0.43
1:AA:1372:U:H2'	1:AA:1373:G:O5'	2.18	0.43
2:AB:33:TYR:CB	2:AB:43:ASP:HB2	2.45	0.43
2:AB:88:ALA:HB2	2:AB:219:VAL:CG1	2.48	0.43
3:AC:13:GLY:O	3:AC:14:ILE:CG2	2.67	0.43
3:AC:139:GLN:OE1	3:AC:139:GLN:HA	2.19	0.43
4:AD:110:PHE:N	4:AD:110:PHE:CD1	2.87	0.43
4:AD:132:ARG:HG2	4:AD:132:ARG:NH1	2.32	0.43
6:AF:28:ARG:O	6:AF:31:GLU:HB2	2.19	0.43
7:AG:27:ILE:HG23	7:AG:40:ALA:HA	2.01	0.43
9:AI:42:ARG:O	9:AI:45:ALA:HB3	2.19	0.43
9:AI:78:LYS:HE3	9:AI:101:PHE:CE2	2.54	0.43
14:AN:21:TYR:HE2	14:AN:23:ARG:NH2	2.16	0.43
14:AN:25:VAL:HG23	14:AN:38:GLY:O	2.18	0.43
14:AN:47:LEU:C	14:AN:49:HIS:N	2.71	0.43
15:AO:67:LEU:N	15:AO:67:LEU:HD23	2.33	0.43
16:AP:20:VAL:CG2	16:AP:35:LYS:HA	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:27:PHE:CD1	17:AQ:27:PHE:C	2.91	0.43
20:AT:38:LYS:O	20:AT:40:ALA:N	2.52	0.43
22:AW:49:C:O2'	22:AW:50:U:H6	2.02	0.43
22:AW:59:U:H5'	22:AW:60:U:C5	2.54	0.43
25:AZ:67:HIS:CE1	25:AZ:80:VAL:HG22	2.54	0.43
25:AZ:286:VAL:HG23	25:AZ:287:GLY:H	1.84	0.43
26:B0:20:ARG:CG	26:B0:20:ARG:HH11	2.32	0.43
27:B1:23:LYS:HB3	27:B1:29:GLY:O	2.19	0.43
35:B9:30:PRO:O	35:B9:32:HIS:N	2.52	0.43
36:BA:45:C:H2'	36:BA:47:C:C6	2.53	0.43
36:BA:83:G:N1	36:BA:102:G:H2'	2.34	0.43
36:BA:195:A:N6	36:BA:198:C:OP2	2.52	0.43
36:BA:212:G:C2'	36:BA:213:A:H5'	2.48	0.43
36:BA:440:G:C8	36:BA:440:G:O5'	2.72	0.43
36:BA:478:A:C6	36:BA:480:A:C6	3.07	0.43
36:BA:481:G:H1'	36:BA:506:G:H22	1.83	0.43
36:BA:1263:U:C4	36:BA:1264:G:C6	3.07	0.43
36:BA:1328:G:H4'	36:BA:1329:U:C5	2.53	0.43
36:BA:1348:G:C2'	36:BA:1349:A:H5''	2.49	0.43
36:BA:1413:G:H2'	36:BA:1414:G:C8	2.54	0.43
36:BA:1541:G:N3	36:BA:1541:G:O4'	2.52	0.43
36:BA:1604:C:O2'	36:BA:1605:C:H5'	2.19	0.43
36:BA:1661:G:C6	36:BA:2000:G:N1	2.86	0.43
36:BA:1786:A:O2'	36:BA:1938:A:N6	2.52	0.43
36:BA:1909:C:C2'	36:BA:1910:G:H5'	2.49	0.43
36:BA:2052:G:C6	36:BA:2053:G:N7	2.87	0.43
36:BA:2185:C:H6	36:BA:2185:C:OP2	2.02	0.43
36:BA:2308:G:N2	42:BG:79:ASN:CB	2.82	0.43
36:BA:2351:G:N1	36:BA:2365:G:C6	2.87	0.43
36:BA:2726:U:HO2'	36:BA:2727:G:C5'	2.32	0.43
36:BA:2843:G:N2	36:BA:2875:C:C4	2.87	0.43
38:BC:75:LEU:HD12	38:BC:75:LEU:C	2.38	0.43
38:BC:140:PRO:O	38:BC:142:ALA:N	2.51	0.43
38:BC:150:GLY:O	38:BC:154:ARG:HG2	2.17	0.43
38:BC:199:HIS:ND1	38:BC:199:HIS:N	2.66	0.43
38:BC:203:GLY:O	38:BC:204:ALA:C	2.57	0.43
40:BE:23:VAL:CA	40:BE:184:VAL:O	2.65	0.43
41:BF:39:TRP:CE2	41:BF:43:LYS:HE2	2.53	0.43
42:BG:62:LEU:O	42:BG:143:GLU:OE2	2.37	0.43
42:BG:114:ILE:HG13	42:BG:135:LEU:CD2	2.36	0.43
43:BH:98:LEU:HB2	43:BH:125:VAL:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:163:TYR:O	43:BH:164:TYR:O	2.37	0.43
48:BP:33:ARG:O	48:BP:34:GLY:C	2.56	0.43
48:BP:61:ARG:H	48:BP:61:ARG:HG3	1.28	0.43
48:BP:71:VAL:H	48:BP:72:PRO:CD	2.31	0.43
49:BQ:44:ALA:N	49:BQ:45:GLN:HE21	2.16	0.43
49:BQ:110:THR:OG1	49:BQ:112:GLU:HB3	2.18	0.43
50:BR:2:ARG:HG3	50:BR:2:ARG:HH11	1.83	0.43
52:BT:29:ARG:HD2	52:BT:29:ARG:HA	1.77	0.43
53:BU:14:HIS:HA	53:BU:17:ILE:HD13	2.01	0.43
53:BU:86:ALA:HB2	53:BU:116:ALA:HB2	2.01	0.43
58:BZ:96:VAL:CG2	58:BZ:97:GLU:H	1.95	0.43
58:BZ:108:PRO:C	58:BZ:110:GLY:H	2.22	0.43
58:BZ:175:VAL:HB	58:BZ:176:PRO:CD	2.49	0.43
1:CA:174:C:H6	1:CA:174:C:O5'	2.02	0.43
1:CA:190:U:H2'	1:CA:191:G:H8	1.84	0.43
1:CA:279:A:H4'	1:CA:281:G:C8	2.54	0.43
1:CA:704:A:C2'	1:CA:705:U:H5'	2.48	0.43
1:CA:949:A:N7	1:CA:950:U:C5	2.87	0.43
1:CA:1031:G:O2'	1:CA:1032:G:H5'	2.19	0.43
1:CA:1050:G:C2	1:CA:1209:C:O2	2.71	0.43
1:CA:1148:U:H4'	9:CI:14:VAL:CG1	2.47	0.43
1:CA:1254:C:H2'	1:CA:1255:G:H8	1.84	0.43
1:CA:1343:G:C4'	9:CI:121:ARG:HH12	2.32	0.43
1:CA:1430:C:C2	1:CA:1471:G:C2	3.06	0.43
1:CA:1483:A:H1'	36:DA:1948:G:H1'	2.00	0.43
2:CB:17:PHE:HD1	2:CB:44:LEU:HD21	1.84	0.43
2:CB:167:PRO:O	2:CB:168:THR:C	2.56	0.43
2:CB:201:ILE:O	2:CB:201:ILE:HG22	2.19	0.43
3:CC:162:GLN:O	3:CC:163:ALA:C	2.57	0.43
7:CG:22:LEU:CD2	7:CG:62:PHE:CE2	3.02	0.43
7:CG:61:VAL:O	7:CG:64:GLN:N	2.52	0.43
9:CI:7:THR:HG22	9:CI:8:GLY:N	2.29	0.43
11:CK:90:GLY:O	11:CK:94:ALA:N	2.34	0.43
11:CK:116:HIS:O	11:CK:117:ASN:HB2	2.17	0.43
16:CP:20:VAL:CG2	16:CP:35:LYS:HA	2.33	0.43
19:CS:15:LEU:O	19:CS:19:VAL:HG23	2.19	0.43
20:CT:70:SER:HA	20:CT:73:HIS:NE2	2.33	0.43
26:D0:20:ARG:HG2	26:D0:20:ARG:HH11	1.84	0.43
34:D8:28:GLY:N	36:DA:2393:A:OP1	2.51	0.43
35:D9:8:LYS:NZ	36:DA:1032:A:OP1	2.42	0.43
36:DA:20:C:C2	36:DA:21:A:C8	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:85:G:H1	36:DA:97:C:H42	1.67	0.43
36:DA:321:G:C1'	41:DF:168:ARG:NH2	2.82	0.43
36:DA:793:A:N7	36:DA:2072:G:H5''	2.34	0.43
36:DA:877:U:O2'	36:DA:878:A:C5'	2.66	0.43
36:DA:966:G:H2'	36:DA:967:C:H6	1.79	0.43
36:DA:1259:G:H2'	36:DA:1260:G:C8	2.53	0.43
36:DA:1370:C:C3'	36:DA:1371:G:H8	2.24	0.43
36:DA:1476:C:H2'	36:DA:1477:A:C8	2.54	0.43
36:DA:1669:A:OP2	36:DA:2550:G:OP1	2.37	0.43
36:DA:1750:G:N3	36:DA:2860:A:H2	2.17	0.43
36:DA:1790:C:H5''	36:DA:1791:A:OP1	2.19	0.43
36:DA:1899:G:O2'	36:DA:1900:A:H5''	2.19	0.43
36:DA:2201:C:C4	36:DA:2202:C:N4	2.87	0.43
36:DA:2261:C:C1'	36:DA:2388:A:H1'	2.49	0.43
36:DA:2262:U:O4	36:DA:2279:G:C6	2.72	0.43
36:DA:2334:G:N3	51:DS:18:ILE:HD13	2.34	0.43
36:DA:2464:C:O2'	36:DA:2465:C:O5'	2.37	0.43
36:DA:2580:U:H3'	36:DA:2581:G:N3	2.34	0.43
36:DA:2587:A:H8	36:DA:2587:A:O5'	2.01	0.43
36:DA:2861:G:C2'	36:DA:2862:G:H5'	2.48	0.43
36:DA:2864:G:O2'	36:DA:2865:U:H5'	2.18	0.43
38:DC:39:GLU:O	38:DC:177:LYS:HA	2.18	0.43
38:DC:75:LEU:HB2	38:DC:93:TYR:HB2	2.00	0.43
38:DC:91:ALA:HB3	38:DC:94:VAL:HG22	2.01	0.43
38:DC:100:ILE:H	38:DC:100:ILE:HG13	1.60	0.43
38:DC:140:PRO:O	38:DC:142:ALA:N	2.52	0.43
39:DD:110:GLY:O	39:DD:111:LEU:C	2.57	0.43
42:DG:138:GLN:OE1	42:DG:153:ARG:CG	2.66	0.43
43:DH:97:ARG:NH2	43:DH:99:VAL:HG21	2.34	0.43
45:DK:135:UNK:O	45:DK:136:UNK:CB	2.67	0.43
47:DO:34:THR:O	47:DO:35:VAL:C	2.57	0.43
48:DP:16:ARG:NH1	48:DP:16:ARG:CB	2.81	0.43
50:DR:77:ARG:O	50:DR:79:LEU:N	2.52	0.43
50:DR:94:TYR:CD2	50:DR:94:TYR:N	2.83	0.43
51:DS:56:LEU:O	51:DS:58:LEU:N	2.51	0.43
51:DS:76:LYS:O	51:DS:77:ALA:C	2.57	0.43
52:DT:31:SER:O	52:DT:32:TYR:O	2.36	0.43
54:DV:1:MET:O	54:DV:2:PHE:HB2	2.18	0.43
56:DX:46:ALA:C	56:DX:47:PHE:HD1	2.23	0.43
58:DZ:11:GLU:CD	58:DZ:11:GLU:N	2.68	0.43
1:AA:34:C:C1'	12:AL:32:PHE:CE2	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:51:A:C6	1:AA:353:A:C2	3.07	0.42
1:AA:690:G:O2'	1:AA:691:G:H5'	2.19	0.42
1:AA:790:A:O2'	1:AA:791:G:H5'	2.19	0.42
1:AA:802:A:H2'	1:AA:803:G:O4'	2.19	0.42
1:AA:865:A:H2'	1:AA:866:C:C5'	2.49	0.42
1:AA:955:U:H3	1:AA:1225:A:H61	1.65	0.42
1:AA:975:A:H8	1:AA:975:A:H5'	1.84	0.42
1:AA:1004:A:N6	1:AA:1035:A:C6	2.86	0.42
1:AA:1004:A:H5''	1:AA:1025:U:C5	2.54	0.42
1:AA:1057:G:H2'	1:AA:1058:G:O4'	2.18	0.42
1:AA:1148:U:H2'	1:AA:1149:C:H5'	2.00	0.42
1:AA:1377:A:H2'	7:AG:7:ALA:HB2	2.00	0.42
1:AA:1504:G:H1'	1:AA:1505:G:OP2	2.19	0.42
2:AB:158:LEU:HA	2:AB:159:PRO:HD3	1.78	0.42
3:AC:57:ILE:O	3:AC:57:ILE:HG22	2.19	0.42
3:AC:69:HIS:CE1	3:AC:104:GLN:OE1	2.72	0.42
3:AC:99:VAL:O	3:AC:99:VAL:HG23	2.19	0.42
3:AC:121:ALA:HB2	3:AC:187:ALA:CB	2.49	0.42
3:AC:180:ALA:O	3:AC:203:PHE:HE1	2.02	0.42
4:AD:79:PHE:CE2	4:AD:207:TYR:CD1	3.06	0.42
4:AD:79:PHE:O	4:AD:82:ALA:HB3	2.19	0.42
8:AH:14:ARG:O	8:AH:17:THR:OG1	2.33	0.42
10:AJ:43:ARG:HH11	10:AJ:43:ARG:HG3	1.84	0.42
10:AJ:47:PHE:CZ	14:AN:37:PHE:CE2	3.07	0.42
11:AK:30:VAL:HG21	11:AK:65:ALA:HA	2.01	0.42
12:AL:126:LYS:C	12:AL:128:ALA:H	2.23	0.42
13:AM:3:ARG:HH22	42:BG:140:ILE:HA	1.84	0.42
13:AM:70:LEU:HD22	13:AM:71:ARG:N	2.34	0.42
16:AP:81:ARG:HE	16:AP:81:ARG:HB2	1.73	0.42
19:AS:66:MET:CG	19:AS:66:MET:O	2.67	0.42
20:AT:29:LYS:O	20:AT:33:ILE:HG13	2.18	0.42
22:AV:58:A:N6	22:AV:61:C:C4	2.87	0.42
24:AY:70:A:C2	24:AY:71:G:C8	3.07	0.42
25:AZ:16:THR:O	25:AZ:17:ILE:HG23	2.19	0.42
25:AZ:242:ILE:HD12	25:AZ:281:ILE:O	2.19	0.42
26:B0:20:ARG:HH11	26:B0:20:ARG:HG2	1.83	0.42
29:B3:50:VAL:C	29:B3:52:HIS:N	2.72	0.42
31:B5:3:LYS:HE3	31:B5:3:LYS:CA	2.39	0.42
32:B6:54:ILE:OXT	32:B6:54:ILE:HG23	2.19	0.42
33:B7:19:ARG:HD3	36:BA:125:G:P	2.59	0.42
36:BA:207:A:H2'	36:BA:208:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:251:A:H2'	36:BA:252:G:H5'	2.01	0.42
36:BA:348:G:C2	36:BA:349:G:C4	3.07	0.42
36:BA:410:G:H1	36:BA:417:C:N4	2.12	0.42
36:BA:455:C:N3	36:BA:473:G:H5'	2.34	0.42
36:BA:463:G:C6	36:BA:467:G:O6	2.72	0.42
36:BA:530:G:H1'	36:BA:532:A:N7	2.34	0.42
36:BA:605:C:N4	36:BA:623:G:O6	2.52	0.42
36:BA:654(D):G:H2'	36:BA:654(E):G:C8	2.54	0.42
36:BA:656:G:C6	36:BA:657:U:C4	3.07	0.42
36:BA:723:G:C6	36:BA:724:U:C4	3.07	0.42
36:BA:816:C:H2'	36:BA:817:C:H6	1.83	0.42
36:BA:960:A:N6	36:BA:962:G:C2	2.87	0.42
36:BA:1098:A:H2'	36:BA:1099:G:O4'	2.19	0.42
36:BA:1113:U:H2'	36:BA:1114:G:C8	2.53	0.42
36:BA:1186:G:H2'	36:BA:1187:G:H5'	2.01	0.42
36:BA:1427:A:N6	36:BA:1571:A:OP2	2.50	0.42
36:BA:1474:C:H5'	36:BA:1475:G:P	2.59	0.42
36:BA:1475:G:C2	36:BA:1517:G:N3	2.86	0.42
36:BA:1631(A):A:O2'	36:BA:1632:A:H5'	2.19	0.42
36:BA:1759:A:O2'	36:BA:1760:A:H5'	2.19	0.42
36:BA:1776:G:C2	36:BA:1777:U:C6	3.07	0.42
36:BA:1860:G:H2'	36:BA:1861:G:C8	2.54	0.42
36:BA:2028:U:C2'	36:BA:2029:G:O4'	2.63	0.42
36:BA:2250:G:N3	36:BA:2250:G:O4'	2.52	0.42
36:BA:2255:G:C4	36:BA:2256:G:C8	3.07	0.42
36:BA:2414:G:H2'	36:BA:2414:G:N3	2.34	0.42
36:BA:2442:C:O2	36:BA:2442:C:C2'	2.66	0.42
36:BA:2444:G:OP2	41:BF:68:LYS:NZ	2.48	0.42
36:BA:2524:G:C5'	36:BA:2524:G:H8	2.32	0.42
36:BA:2776:A:H4'	36:BA:2778:A:C5'	2.49	0.42
36:BA:2864:G:O2'	36:BA:2865:U:H5'	2.18	0.42
38:BC:20:TYR:CD1	38:BC:20:TYR:N	2.82	0.42
38:BC:188:ASN:O	38:BC:189:ILE:C	2.57	0.42
39:BD:35:LYS:HD2	39:BD:36:PRO:CA	2.49	0.42
42:BG:130:ASN:CG	42:BG:160:VAL:HG13	2.39	0.42
43:BH:19:VAL:CG1	43:BH:20:ALA:N	2.80	0.42
43:BH:68:THR:HA	43:BH:71:LEU:HG	2.01	0.42
47:BO:34:THR:O	47:BO:35:VAL:C	2.57	0.42
49:BQ:50:ALA:C	49:BQ:52:VAL:N	2.71	0.42
50:BR:18:LEU:HD13	50:BR:18:LEU:C	2.39	0.42
50:BR:69:ASP:N	50:BR:69:ASP:OD2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:63:THR:O	51:BS:65:VAL:N	2.52	0.42
51:BS:76:LYS:O	51:BS:77:ALA:C	2.57	0.42
52:BT:27:THR:O	52:BT:47:GLY:O	2.37	0.42
54:BV:63:GLY:O	54:BV:64:HIS:O	2.36	0.42
57:BY:46:LYS:O	57:BY:47:LYS:HG3	2.17	0.42
57:BY:88:LYS:HD2	57:BY:88:LYS:N	2.33	0.42
58:BZ:151:HIS:HA	58:BZ:171:ILE:CG1	2.48	0.42
1:CA:40:C:H42	1:CA:403:C:N4	2.17	0.42
1:CA:60:A:P	1:CA:60:A:H8	2.42	0.42
1:CA:363:A:C6	1:CA:364:A:C6	3.07	0.42
1:CA:508:C:HO2'	1:CA:509:A:P	2.42	0.42
1:CA:511:C:C4	1:CA:541:G:N2	2.87	0.42
1:CA:522:C:H1'	1:CA:536:C:H5'	2.01	0.42
1:CA:532:A:H3'	1:CA:533:A:H5'	2.00	0.42
1:CA:533:A:O2'	1:CA:535:A:OP2	2.37	0.42
1:CA:539:A:H2'	1:CA:540:G:H8	1.84	0.42
1:CA:663:A:C2	1:CA:664:G:C4	3.07	0.42
1:CA:670:G:N2	1:CA:671:G:C4	2.86	0.42
1:CA:676:A:H5''	11:CK:113:PRO:CB	2.49	0.42
1:CA:824:C:O2'	1:CA:825:G:H5'	2.19	0.42
1:CA:900:A:H2'	1:CA:901:A:C8	2.54	0.42
1:CA:1469:G:N1	1:CA:1470:G:C5	2.87	0.42
2:CB:83:MET:C	2:CB:85:ALA:N	2.72	0.42
3:CC:7:PRO:HG2	3:CC:184:TYR:CD2	2.54	0.42
3:CC:55:VAL:HG12	3:CC:55:VAL:O	2.19	0.42
3:CC:77:ILE:HG23	3:CC:84:ILE:HG22	2.00	0.42
3:CC:113:ALA:C	3:CC:115:LEU:N	2.70	0.42
4:CD:43:HIS:O	4:CD:45:GLN:HG2	2.19	0.42
5:CE:10:MET:HG3	5:CE:13:ILE:HD11	2.01	0.42
8:CH:4:ASP:OD1	8:CH:4:ASP:C	2.57	0.42
9:CI:6:GLY:HA3	9:CI:84:ALA:CB	2.46	0.42
9:CI:80:GLY:O	9:CI:84:ALA:CB	2.67	0.42
11:CK:31:THR:HA	11:CK:42:TRP:CB	2.50	0.42
11:CK:111:ASP:HA	18:CR:84:LYS:CD	2.49	0.42
12:CL:54:LYS:HD2	12:CL:54:LYS:N	2.34	0.42
13:CM:56:LEU:HD13	13:CM:57:ARG:N	2.34	0.42
14:CN:48:ALA:H	14:CN:53:LEU:HD12	1.81	0.42
19:CS:22:LEU:HD13	19:CS:27:GLU:HB2	2.00	0.42
22:CW:17:C:N3	36:DA:2179:C:H5'	2.33	0.42
22:CW:24:G:C5	22:CW:25:C:C4	3.07	0.42
24:CY:70:A:C2	24:CY:71:G:N7	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:37:LYS:HE3	31:D5:37:LYS:HB2	1.86	0.42
31:D5:40:LYS:NZ	31:D5:46:CYS:H	2.17	0.42
32:D6:12:GLU:HG3	32:D6:23:THR:HG22	2.01	0.42
33:D7:15:THR:HG22	33:D7:15:THR:O	2.18	0.42
34:D8:34:TRP:CA	36:DA:2420:C:OP1	2.66	0.42
36:DA:271(U):G:C2'	36:DA:271(V):G:H5'	2.48	0.42
36:DA:280:C:H42	36:DA:360:G:H1	1.67	0.42
36:DA:298:G:H8	36:DA:298:G:OP2	2.02	0.42
36:DA:371:A:C6	36:DA:401:A:C8	3.07	0.42
36:DA:381:G:O2'	36:DA:382:G:H5'	2.18	0.42
36:DA:410:G:H1	36:DA:417:C:N4	2.14	0.42
36:DA:414:C:H5''	36:DA:1879:C:O2'	2.19	0.42
36:DA:476:G:H2'	36:DA:478:A:OP2	2.19	0.42
36:DA:526:A:N6	36:DA:2626:C:H4'	2.34	0.42
36:DA:978:G:H2'	36:DA:979:G:O4'	2.19	0.42
36:DA:1012:U:H5	46:DN:28:THR:HG21	1.80	0.42
36:DA:1041:C:C2'	36:DA:1042:G:H5'	2.48	0.42
36:DA:1205:U:H4'	36:DA:1206:G:OP2	2.19	0.42
36:DA:1406:U:N3	36:DA:1597:A:C2	2.87	0.42
36:DA:1487:G:C5	36:DA:1488:G:C8	3.07	0.42
36:DA:1493:C:O2	36:DA:1493:C:C2'	2.67	0.42
36:DA:1744:C:O2'	36:DA:1745:C:H5'	2.18	0.42
36:DA:1830:C:H6	36:DA:1830:C:O5'	2.02	0.42
36:DA:2071:A:H8	36:DA:2071:A:OP2	2.02	0.42
36:DA:2104:G:N1	36:DA:2105:C:N4	2.67	0.42
36:DA:2262:U:C2	36:DA:2263:C:C5	3.06	0.42
36:DA:2269:A:O2'	36:DA:2270:G:H5'	2.19	0.42
36:DA:2413:G:C4	36:DA:2414:G:C8	3.07	0.42
36:DA:2648:C:H2'	36:DA:2649:U:C6	2.54	0.42
37:DB:50:G:OP1	51:DS:63:THR:HG23	2.18	0.42
40:DE:183:LEU:HD12	40:DE:183:LEU:N	2.33	0.42
41:DF:150:GLY:HA2	41:DF:172:TRP:CE2	2.54	0.42
42:DG:19:LEU:HD23	42:DG:175:LEU:HD12	2.01	0.42
42:DG:165:THR:CG2	42:DG:168:GLU:OE2	2.67	0.42
43:DH:107:VAL:O	43:DH:109:PHE:N	2.52	0.42
48:DP:114:ILE:N	48:DP:129:ALA:O	2.51	0.42
49:DQ:63:LYS:CE	49:DQ:65:PHE:HE1	2.32	0.42
52:DT:57:PHE:O	52:DT:79:HIS:CE1	2.72	0.42
54:DV:58:VAL:O	54:DV:59:ALA:HB2	2.18	0.42
55:DW:112:GLY:O	55:DW:113:LYS:O	2.37	0.42
56:DX:8:ILE:O	56:DX:9:LEU:C	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DX:29:TRP:HZ3	56:DX:78:LYS:HD2	1.84	0.42
56:DX:69:TYR:N	56:DX:69:TYR:CD1	2.87	0.42
58:DZ:96:VAL:CG2	58:DZ:97:GLU:H	2.25	0.42
58:DZ:150:LEU:O	58:DZ:151:HIS:CB	2.65	0.42
1:AA:428:G:HO2'	1:AA:429:U:P	2.41	0.42
1:AA:429:U:H4'	1:AA:430:A:O5'	2.18	0.42
1:AA:505:G:C5	1:AA:506:G:N7	2.87	0.42
1:AA:515:G:O2'	1:AA:516:U:H5'	2.19	0.42
1:AA:588:G:C6	1:AA:589:C:C4	3.08	0.42
1:AA:663:A:C2	1:AA:664:G:C4	3.07	0.42
1:AA:1089:G:H2'	1:AA:1090:U:H6	1.84	0.42
1:AA:1247:U:O2	1:AA:1291:G:C2	2.72	0.42
1:AA:1321:C:HO2'	19:AS:78:ARG:HH12	1.65	0.42
1:AA:1368:G:OP2	9:AI:112:LYS:HD2	2.19	0.42
4:AD:34:GLU:O	4:AD:35:ARG:CB	2.67	0.42
4:AD:56:VAL:HG12	4:AD:202:LEU:HD13	2.01	0.42
4:AD:64:LEU:O	4:AD:65:ARG:C	2.57	0.42
5:AE:28:PHE:HE1	5:AE:49:PRO:O	2.02	0.42
5:AE:30:ALA:O	5:AE:46:GLY:N	2.44	0.42
5:AE:32:VAL:O	5:AE:43:LEU:HD12	2.19	0.42
7:AG:22:LEU:CD2	7:AG:62:PHE:CE2	3.02	0.42
7:AG:123:GLU:O	7:AG:126:ASP:N	2.52	0.42
9:AI:26:VAL:HG13	9:AI:61:ALA:HB3	2.00	0.42
10:AJ:12:ASP:C	10:AJ:14:LYS:N	2.71	0.42
13:AM:13:LYS:HA	13:AM:44:ARG:HD2	2.01	0.42
13:AM:44:ARG:O	13:AM:47:ASP:N	2.51	0.42
13:AM:59:TYR:CD1	13:AM:63:THR:OG1	2.67	0.42
19:AS:45:VAL:O	19:AS:47:HIS:N	2.47	0.42
21:AU:19:GLY:H	21:AU:22:ARG:HB3	1.85	0.42
24:AY:9:A:H62	24:AY:23:A:N6	2.14	0.42
25:AZ:137:LYS:O	25:AZ:138:VAL:C	2.57	0.42
25:AZ:224:PRO:O	25:AZ:240:GLY:HA3	2.19	0.42
25:AZ:310:ILE:HD11	25:AZ:381:GLU:CB	2.47	0.42
25:AZ:362:VAL:HG11	25:AZ:368:VAL:HG21	2.01	0.42
27:B1:70:VAL:CA	27:B1:73:LEU:HD12	2.47	0.42
29:B3:7:LYS:C	29:B3:54:VAL:HG13	2.39	0.42
30:B4:10:VAL:CG2	30:B4:11:PRO:N	2.82	0.42
30:B4:35:VAL:HG12	42:BG:112:PRO:CG	2.49	0.42
33:B7:30:VAL:HG13	36:BA:466:A:H4'	1.97	0.42
34:B8:41:ILE:HD12	36:BA:2419:U:OP1	2.18	0.42
34:B8:50:LEU:CD1	34:B8:51:ALA:N	2.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:202:U:H2'	36:BA:203:C:O4'	2.20	0.42
36:BA:209:C:C4'	36:BA:681:G:H4'	2.50	0.42
36:BA:217:G:O6	36:BA:431:U:O2	2.37	0.42
36:BA:271(Z):C:H1'	36:BA:272(C):G:H1'	2.01	0.42
36:BA:448:U:H1'	41:BF:84:VAL:HG13	2.01	0.42
36:BA:525:U:O2'	36:BA:526:A:H5'	2.19	0.42
36:BA:583:G:OP2	53:BU:10:ARG:HD2	2.19	0.42
36:BA:629:G:O2'	36:BA:630:G:H5'	2.20	0.42
36:BA:630:G:H2'	36:BA:632:A:OP2	2.19	0.42
36:BA:784:A:O2'	36:BA:785:G:H8	2.02	0.42
36:BA:839:U:O5'	36:BA:839:U:H6	2.02	0.42
36:BA:841:A:N1	36:BA:938:G:C6	2.87	0.42
36:BA:843:G:H2'	36:BA:844:C:H6	1.83	0.42
36:BA:979:G:N2	36:BA:985:C:H42	2.16	0.42
36:BA:1244:G:H5'	36:BA:1244:G:C8	2.55	0.42
36:BA:1336:A:H2'	36:BA:1337:G:C8	2.50	0.42
36:BA:1835:G:H2'	36:BA:1835:G:N3	2.35	0.42
36:BA:1911:U:O2'	36:BA:1912:A:H5''	2.19	0.42
36:BA:2165:G:C6	36:BA:2166:G:C6	3.07	0.42
36:BA:2252:G:H2'	36:BA:2253:G:O4'	2.19	0.42
36:BA:2307:G:H21	36:BA:2308:G:H5'	1.83	0.42
36:BA:2429:G:OP2	36:BA:2430:A:OP2	2.36	0.42
36:BA:2679:A:O2'	36:BA:2680:C:H5'	2.19	0.42
36:BA:2748:A:N3	36:BA:2748:A:H2'	2.33	0.42
36:BA:2791:C:H2'	36:BA:2791:C:O2	2.19	0.42
37:BB:72:G:O2'	37:BB:105:A:N6	2.52	0.42
38:BC:63:SER:OG	38:BC:160:ARG:HG3	2.20	0.42
38:BC:76:ALA:HA	38:BC:114:VAL:CG2	2.49	0.42
38:BC:156:ILE:CD1	38:BC:160:ARG:NH2	2.83	0.42
40:BE:7:VAL:O	40:BE:7:VAL:HG13	2.19	0.42
40:BE:93:VAL:HG21	40:BE:180:ASN:HA	2.01	0.42
41:BF:28:ILE:O	41:BF:28:ILE:HG12	2.19	0.42
41:BF:31:HIS:O	41:BF:33:LEU:N	2.52	0.42
41:BF:37:VAL:HG22	41:BF:183:VAL:CG2	2.41	0.42
41:BF:46:ARG:HG2	41:BF:48:THR:HG23	2.00	0.42
41:BF:160:ASN:ND2	41:BF:162:LEU:HB2	2.33	0.42
41:BF:182:ASN:OD1	41:BF:185:ASP:HB2	2.19	0.42
42:BG:39:ILE:CG1	42:BG:92:VAL:HG12	2.49	0.42
42:BG:166:ASP:O	42:BG:169:ALA:N	2.53	0.42
45:BK:135:UNK:O	45:BK:136:UNK:CB	2.66	0.42
47:BO:71:ARG:HE	47:BO:105:GLU:CD	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:5:ASP:OD2	48:BP:6:LEU:HD23	2.20	0.42
48:BP:69:GLY:O	48:BP:70:GLN:C	2.56	0.42
49:BQ:43:THR:OG1	49:BQ:46:GLN:CG	2.64	0.42
49:BQ:134:ARG:NH1	58:BZ:122:ARG:CZ	2.82	0.42
51:BS:93:LYS:HA	51:BS:93:LYS:HD2	1.79	0.42
52:BT:48:ILE:O	52:BT:63:VAL:HA	2.19	0.42
54:BV:4:ILE:O	54:BV:38:LEU:HD23	2.18	0.42
1:CA:59:A:N6	1:CA:331:G:H1'	2.33	0.42
1:CA:181:G:H4'	1:CA:182:U:O5'	2.19	0.42
1:CA:264:U:O2'	17:CQ:64:PRO:O	2.37	0.42
1:CA:447:G:C2'	1:CA:485:G:N2	2.74	0.42
1:CA:472:A:H2'	1:CA:473:G:O4'	2.19	0.42
1:CA:545:C:OP1	4:CD:61:LYS:NZ	2.52	0.42
1:CA:570:G:C6	1:CA:873:A:C2	3.06	0.42
1:CA:607:A:C2	16:CP:31:LYS:HG3	2.55	0.42
1:CA:675:A:H1'	11:CK:116:HIS:CD2	2.53	0.42
1:CA:730:G:O2'	1:CA:766:A:H5'	2.19	0.42
1:CA:794:A:H2'	1:CA:795:C:C6	2.54	0.42
1:CA:827:U:H2'	1:CA:859:A:N1	2.34	0.42
1:CA:955:U:H3	1:CA:1225:A:H61	1.66	0.42
1:CA:965:A:H1'	1:CA:969:A:C8	2.54	0.42
1:CA:1057:G:C3'	1:CA:1058:G:H8	2.32	0.42
1:CA:1075:C:OP1	2:CB:179:LYS:HE2	2.19	0.42
1:CA:1152:A:H2'	1:CA:1153:C:C6	2.50	0.42
1:CA:1330:U:O2	1:CA:1330:U:H2'	2.19	0.42
1:CA:1437:C:H2'	1:CA:1438:G:C8	2.54	0.42
1:CA:1468:A:H3'	1:CA:1469:G:C8	2.52	0.42
1:CA:1490:C:C2	1:CA:1491:G:C8	3.07	0.42
2:CB:54:THR:O	2:CB:57:PHE:HB3	2.19	0.42
2:CB:194:PRO:O	2:CB:195:ASP:C	2.57	0.42
3:CC:5:ILE:N	3:CC:5:ILE:CD1	2.81	0.42
3:CC:36:ASP:O	3:CC:40:ARG:NH1	2.52	0.42
3:CC:56:ASP:C	3:CC:57:ILE:HG13	2.40	0.42
3:CC:121:ALA:HB2	3:CC:187:ALA:CB	2.49	0.42
5:CE:132:ALA:O	5:CE:135:THR:HB	2.19	0.42
7:CG:36:LYS:O	7:CG:37:ASN:O	2.36	0.42
7:CG:97:GLN:O	7:CG:98:SER:C	2.56	0.42
8:CH:39:LEU:O	8:CH:40:ALA:C	2.57	0.42
8:CH:127:LEU:HD12	8:CH:129:VAL:HG13	2.00	0.42
10:CJ:38:ILE:HD11	10:CJ:71:LEU:CG	2.49	0.42
12:CL:18:VAL:CG2	12:CL:19:ARG:N	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:4:LYS:O	14:CN:6:LEU:N	2.52	0.42
15:CO:67:LEU:N	15:CO:67:LEU:HD23	2.33	0.42
15:CO:72:ARG:HG2	15:CO:72:ARG:HH11	1.84	0.42
18:CR:34:TYR:CD1	18:CR:35:ARG:HG3	2.54	0.42
20:CT:63:ILE:O	20:CT:66:ALA:HB3	2.19	0.42
25:CZ:168:VAL:HA	25:CZ:169:PRO:HD3	1.83	0.42
25:CZ:258:LEU:HD12	25:CZ:258:LEU:N	2.33	0.42
25:CZ:286:VAL:HG23	25:CZ:287:GLY:H	1.84	0.42
26:D0:56:ASP:OD2	36:DA:2364:C:C4'	2.67	0.42
27:D1:26:ARG:HG3	27:D1:27:GLU:N	2.33	0.42
27:D1:45:ASN:N	36:DA:397:G:OP1	2.51	0.42
30:D4:10:VAL:CG2	30:D4:11:PRO:N	2.82	0.42
36:DA:17:G:H22	36:DA:524:U:C1'	2.13	0.42
36:DA:203:C:N4	36:DA:204:A:C6	2.87	0.42
36:DA:499:U:H1'	57:DY:47:LYS:HZ1	1.83	0.42
36:DA:647:G:H3'	36:DA:648:G:H8	1.84	0.42
36:DA:918:A:H2	37:DB:80:U:O3'	2.02	0.42
36:DA:1145:C:H2'	36:DA:1146:C:C6	2.54	0.42
36:DA:1151:G:H2'	36:DA:1152:C:C6	2.54	0.42
36:DA:1186:G:O2'	36:DA:1187:G:H5'	2.19	0.42
36:DA:1477:A:H2'	36:DA:1478:G:O4'	2.19	0.42
36:DA:1528(A):A:H8	36:DA:1529:G:N9	2.17	0.42
36:DA:1637:A:O2'	36:DA:1638:C:H5'	2.19	0.42
36:DA:1655:A:H1'	40:DE:113:PHE:CD2	2.54	0.42
36:DA:1891:G:C2	36:DA:1892:C:C2	3.07	0.42
36:DA:2200:C:N4	36:DA:2223:G:H1	2.04	0.42
36:DA:2285:C:H42	36:DA:2383:G:H1	1.67	0.42
36:DA:2306:C:H5''	36:DA:2307:G:O4'	2.19	0.42
36:DA:2311:A:C2	42:DG:77:ILE:HG21	2.45	0.42
36:DA:2599:G:H5''	36:DA:2599:G:H8	1.85	0.42
36:DA:2633:G:H5'	36:DA:2812:G:H5'	2.01	0.42
36:DA:2726:U:HO2'	36:DA:2727:G:C5'	2.32	0.42
37:DB:19:G:H3'	37:DB:20:C:H6	1.85	0.42
38:DC:30:LYS:CE	38:DC:180:PHE:O	2.55	0.42
38:DC:64:LEU:HD13	38:DC:188:ASN:ND2	2.34	0.42
39:DD:18:VAL:HG23	39:DD:211:ARG:HH22	1.81	0.42
39:DD:62:TYR:CD1	39:DD:63:ARG:N	2.87	0.42
39:DD:147:LEU:HB2	39:DD:155:LEU:HD11	2.01	0.42
39:DD:187:GLY:O	39:DD:189:CYS:N	2.51	0.42
43:DH:41:MET:SD	43:DH:53:GLU:O	2.77	0.42
46:DN:35:ARG:O	46:DN:37:LYS:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:8:LEU:HD22	47:DO:8:LEU:O	2.19	0.42
48:DP:7:ARG:O	48:DP:10:PRO:HD2	2.19	0.42
48:DP:45:LEU:HD23	48:DP:45:LEU:HA	1.80	0.42
49:DQ:18:LYS:HE2	49:DQ:18:LYS:HB2	1.78	0.42
49:DQ:125:LEU:HB3	49:DQ:126:PRO:HD2	2.01	0.42
50:DR:2:ARG:HG3	50:DR:2:ARG:NH1	2.34	0.42
51:DS:16:ASN:O	51:DS:18:ILE:N	2.52	0.42
51:DS:66:ALA:CB	51:DS:99:LYS:HD3	2.49	0.42
53:DU:55:ARG:HB2	53:DU:55:ARG:CZ	2.49	0.42
53:DU:90:VAL:CG1	53:DU:91:ASP:N	2.78	0.42
55:DW:5:ALA:O	55:DW:6:ILE:HB	2.19	0.42
56:DX:13:LEU:O	56:DX:14:SER:HB3	2.19	0.42
57:DY:46:LYS:O	57:DY:47:LYS:HG3	2.19	0.42
57:DY:50:ARG:HB3	57:DY:53:PRO:CG	2.20	0.42
58:DZ:18:LEU:HD13	58:DZ:18:LEU:H	1.83	0.42
58:DZ:51:ALA:O	58:DZ:54:HIS:N	2.50	0.42
58:DZ:163:LEU:HG	58:DZ:165:VAL:HG23	2.01	0.42
1:AA:218:C:C4	1:AA:219:C:N4	2.88	0.42
1:AA:377:G:H5'	16:AP:5:ARG:NH1	2.35	0.42
1:AA:449:C:O2	16:AP:42:ARG:HG2	2.19	0.42
1:AA:782:A:N1	1:AA:801:U:H1'	2.35	0.42
1:AA:784:C:H2'	1:AA:785:G:C8	2.54	0.42
1:AA:1096:C:H2'	1:AA:1097:C:H6	1.83	0.42
1:AA:1486:G:C2'	1:AA:1487:G:O4'	2.67	0.42
3:AC:63:ASN:C	3:AC:64:VAL:HG23	2.40	0.42
5:AE:40:ARG:HG2	5:AE:40:ARG:HH11	1.84	0.42
5:AE:76:ILE:HG12	5:AE:77:PRO:N	2.33	0.42
7:AG:31:MET:HB2	7:AG:39:ALA:CB	2.48	0.42
9:AI:65:VAL:HG22	9:AI:66:ARG:H	1.84	0.42
11:AK:89:ALA:O	11:AK:91:ARG:N	2.52	0.42
12:AL:27:LEU:O	12:AL:29:GLY:N	2.51	0.42
16:AP:49:LEU:HD22	16:AP:73:LEU:HD22	2.01	0.42
19:AS:10:PHE:HE1	19:AS:70:LYS:HD2	1.83	0.42
19:AS:15:LEU:HD22	19:AS:15:LEU:HA	1.91	0.42
20:AT:45:GLN:NE2	20:AT:46:GLU:N	2.66	0.42
20:AT:71:THR:HG22	20:AT:72:LEU:N	2.34	0.42
23:AX:22:A:C2	24:AY:37:YG:H1'	2.55	0.42
25:AZ:85:HIS:HD2	25:AZ:88:TYR:CE2	2.37	0.42
27:B1:24:ALA:O	27:B1:29:GLY:HA2	2.18	0.42
28:B2:21:LEU:HD13	28:B2:64:LEU:HB2	2.02	0.42
34:B8:30:ARG:O	34:B8:31:HIS:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:45:GLY:O	34:B8:46:ARG:O	2.36	0.42
34:B8:52:LYS:O	34:B8:55:ALA:HB3	2.18	0.42
35:B9:7:VAL:HG13	35:B9:34:GLN:HB3	2.01	0.42
36:BA:71:A:H3'	36:BA:71:A:OP2	2.18	0.42
36:BA:85:G:H1	36:BA:97:C:H42	1.66	0.42
36:BA:135:G:C2	36:BA:145:G:C2	3.07	0.42
36:BA:372:G:O2'	36:BA:373:U:P	2.78	0.42
36:BA:418:G:C2	36:BA:419:C:C6	3.08	0.42
36:BA:426:C:O2	36:BA:427:U:C6	2.72	0.42
36:BA:483:A:C1'	57:BY:60:PHE:CZ	2.97	0.42
36:BA:565:C:H4'	36:BA:1253:A:C2	2.54	0.42
36:BA:654(V):A:H8	36:BA:655:A:C2'	2.30	0.42
36:BA:691:C:H6	36:BA:691:C:O5'	2.02	0.42
36:BA:871:U:O2	36:BA:871:U:H2'	2.18	0.42
36:BA:882:G:N2	36:BA:894:C:H42	2.17	0.42
36:BA:1173:G:H3'	36:BA:1174:A:C5'	2.50	0.42
36:BA:1251:C:P	53:BU:10:ARG:HE	2.39	0.42
36:BA:1275:A:C5	50:BR:16:HIS:HB2	2.54	0.42
36:BA:1287:A:H2'	36:BA:1287:A:N3	2.34	0.42
36:BA:1338:G:C2	36:BA:1339:G:C4	3.07	0.42
36:BA:1620:G:O2'	36:BA:1621:U:H5'	2.19	0.42
36:BA:1637:A:O2'	36:BA:1638:C:H5'	2.20	0.42
36:BA:2241:A:H2'	36:BA:2242:G:H8	1.84	0.42
36:BA:2334:G:N3	51:BS:18:ILE:HD13	2.35	0.42
36:BA:2348:U:C2	36:BA:2349:G:C8	3.07	0.42
36:BA:2821:A:H2'	36:BA:2822:G:O4'	2.20	0.42
36:BA:2850:A:N6	36:BA:2869:G:H5'	2.34	0.42
36:BA:2853:C:O2'	36:BA:2854:G:H5'	2.18	0.42
37:BB:94:C:H2'	37:BB:95:C:H6	1.83	0.42
38:BC:39:GLU:O	38:BC:177:LYS:HA	2.19	0.42
38:BC:206:GLY:CA	38:BC:210:ARG:HH22	2.17	0.42
41:BF:31:HIS:C	41:BF:33:LEU:N	2.71	0.42
42:BG:27:ASN:C	42:BG:29:TRP:N	2.73	0.42
42:BG:45:GLU:C	42:BG:47:LYS:N	2.71	0.42
42:BG:61:ALA:O	42:BG:62:LEU:C	2.58	0.42
42:BG:162:THR:O	42:BG:164:GLU:CG	2.64	0.42
43:BH:37:VAL:HG21	43:BH:72:ILE:HD11	2.02	0.42
46:BN:22:THR:N	46:BN:61:ARG:HB2	2.33	0.42
46:BN:63:THR:HB	46:BN:64:GLY:H	1.53	0.42
49:BQ:132:VAL:HG11	58:BZ:81:ARG:NE	2.34	0.42
50:BR:28:LEU:CD2	50:BR:29:LEU:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:45:ARG:O	50:BR:48:VAL:N	2.52	0.42
51:BS:27:SER:C	51:BS:28:VAL:CG2	2.86	0.42
52:BT:13:ARG:NH2	52:BT:15:VAL:CG1	2.82	0.42
55:BW:28:SER:HA	55:BW:70:TYR:CB	2.49	0.42
58:BZ:12:GLY:CA	58:BZ:36:LYS:NZ	2.83	0.42
58:BZ:125:LEU:HD23	58:BZ:164:ALA:O	2.19	0.42
1:CA:27:G:H2'	1:CA:28:G:H8	1.83	0.42
1:CA:359:U:H2'	1:CA:360:A:C8	2.48	0.42
1:CA:421:U:C6	3:CC:127:ARG:NH1	2.88	0.42
1:CA:443:C:O2'	1:CA:444:C:H5'	2.18	0.42
1:CA:670:G:N2	1:CA:671:G:N3	2.67	0.42
1:CA:734:G:O2'	1:CA:735:C:C5'	2.62	0.42
1:CA:782:A:N1	1:CA:801:U:H1'	2.33	0.42
1:CA:863:U:C3'	1:CA:864:A:H5''	2.47	0.42
1:CA:1054:C:OP2	1:CA:1198:G:OP2	2.37	0.42
1:CA:1081:G:H2'	1:CA:1082:G:C8	2.51	0.42
1:CA:1129:C:H4'	1:CA:1130:A:H8	1.84	0.42
1:CA:1245:A:H2'	1:CA:1246:C:C6	2.54	0.42
3:CC:5:ILE:HG12	3:CC:10:PHE:HB2	2.01	0.42
5:CE:144:THR:O	5:CE:145:LYS:C	2.58	0.42
6:CF:11:ASN:HA	6:CF:12:PRO:HD2	1.87	0.42
7:CG:144:MET:HE3	22:CW:31:A:H1'	2.01	0.42
8:CH:89:PRO:CA	8:CH:92:ARG:HH11	2.27	0.42
8:CH:119:LEU:HD12	8:CH:124:ALA:CA	2.48	0.42
9:CI:6:GLY:HA3	9:CI:84:ALA:CA	2.49	0.42
9:CI:37:PHE:CD2	9:CI:74:ILE:HD11	2.54	0.42
9:CI:82:ALA:O	9:CI:85:LEU:CD1	2.67	0.42
10:CJ:4:ILE:HB	10:CJ:74:ILE:HD11	2.01	0.42
11:CK:32:ILE:CG2	11:CK:33:THR:N	2.83	0.42
13:CM:108:ARG:NH1	13:CM:108:ARG:CG	2.81	0.42
14:CN:4:LYS:O	14:CN:7:ILE:CG1	2.54	0.42
15:CO:28:GLN:O	15:CO:31:LEU:HB3	2.20	0.42
15:CO:64:ARG:O	15:CO:68:ARG:N	2.51	0.42
16:CP:9:PHE:HE2	16:CP:18:ARG:HD2	1.85	0.42
16:CP:12:LYS:HE3	16:CP:12:LYS:HB2	1.87	0.42
19:CS:51:VAL:HG22	19:CS:71:LEU:HD13	2.01	0.42
19:CS:68:GLY:O	19:CS:70:LYS:HE3	2.19	0.42
20:CT:26:ASN:ND2	20:CT:26:ASN:N	2.67	0.42
22:CV:18:G:C4	22:CV:58:A:C2	3.08	0.42
22:CW:51:U:H2'	22:CW:52:G:H8	1.84	0.42
24:CY:35:G:O2'	24:CY:36:U:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:219:LYS:HB3	25:CZ:220:PRO:HD2	2.01	0.42
25:CZ:222:LEU:HD23	25:CZ:244:ARG:CZ	2.48	0.42
28:D2:3:LEU:O	28:D2:6:VAL:HB	2.18	0.42
28:D2:46:GLN:O	28:D2:50:ILE:HD13	2.19	0.42
30:D4:14:ILE:H	30:D4:14:ILE:CD1	2.32	0.42
33:D7:7:PRO:HA	36:DA:686:G:C8	2.54	0.42
34:D8:22:VAL:CB	34:D8:53:PRO:HB2	2.49	0.42
34:D8:53:PRO:C	34:D8:55:ALA:N	2.72	0.42
36:DA:120:U:H1'	36:DA:149:A:C8	2.55	0.42
36:DA:176:G:H3'	36:DA:177:G:N2	2.35	0.42
36:DA:321:G:OP2	41:DF:135:LYS:HD2	2.19	0.42
36:DA:327:G:C2	36:DA:328:U:C2	3.07	0.42
36:DA:760:G:H2'	36:DA:761:A:O4'	2.20	0.42
36:DA:862:G:H3'	36:DA:863:A:H8	1.83	0.42
36:DA:994:C:O2	36:DA:994:C:H2'	2.20	0.42
36:DA:1065:U:HO2'	36:DA:1066:U:H5''	1.83	0.42
36:DA:1106:G:C6	36:DA:1107:G:N3	2.87	0.42
36:DA:1271:G:N2	36:DA:1617:C:O4'	2.52	0.42
36:DA:1387:C:H42	36:DA:1400:G:H1	1.67	0.42
36:DA:1474:C:H5'	36:DA:1475:G:OP1	2.19	0.42
36:DA:1528:A:O2'	36:DA:1528(A):A:P	2.76	0.42
36:DA:1541:G:C8	36:DA:1542:A:C6	3.08	0.42
36:DA:1651:G:C2'	36:DA:1652:A:H5'	2.50	0.42
36:DA:1747:G:H2'	36:DA:1747(A):G:C8	2.54	0.42
36:DA:1830:C:H2'	36:DA:1831:G:H8	1.85	0.42
36:DA:1884:A:H3'	36:DA:1885:A:H5''	2.02	0.42
36:DA:2110:G:O2'	36:DA:2111:C:H5'	2.19	0.42
36:DA:2121:G:C2	36:DA:2177:C:O2	2.73	0.42
36:DA:2173:A:N3	36:DA:2173:A:C3'	2.80	0.42
36:DA:2282:G:N2	36:DA:2390:U:H3	2.11	0.42
36:DA:2379:G:H2'	36:DA:2380:C:H6	1.79	0.42
36:DA:2444:G:OP2	41:DF:68:LYS:NZ	2.51	0.42
36:DA:2517:C:N3	36:DA:2542:A:N1	2.67	0.42
36:DA:2729:G:H2'	36:DA:2730:C:C6	2.53	0.42
36:DA:2758:A:C2	36:DA:2759:G:N9	2.88	0.42
36:DA:2842:G:H1	36:DA:2875:C:N4	2.17	0.42
40:DE:181:LEU:N	40:DE:181:LEU:CD1	2.83	0.42
41:DF:116:ASP:OD2	48:DP:5:ASP:N	2.53	0.42
43:DH:84:SER:O	43:DH:85:LYS:HB3	2.19	0.42
48:DP:47:ASP:HB3	48:DP:48:PRO:CA	2.49	0.42
49:DQ:27:VAL:H	49:DQ:137:TYR:HD1	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:126:PRO:HG2	49:DQ:127:ILE:HG23	2.01	0.42
51:DS:85:VAL:CG2	51:DS:106:ARG:HB2	2.49	0.42
52:DT:29:ARG:HD2	52:DT:29:ARG:HA	1.79	0.42
53:DU:47:TYR:O	53:DU:50:ARG:HB2	2.19	0.42
53:DU:52:ARG:NH2	53:DU:55:ARG:HH22	2.17	0.42
54:DV:69:LYS:HB2	54:DV:88:ARG:CD	2.40	0.42
55:DW:37:ARG:CG	55:DW:37:ARG:NH1	2.80	0.42
56:DX:43:VAL:O	56:DX:43:VAL:HG12	2.19	0.42
57:DY:81:LYS:CD	57:DY:97:ARG:O	2.60	0.42
58:DZ:108:PRO:O	58:DZ:111:VAL:HG23	2.18	0.42
1:AA:9:G:C5'	5:AE:122:GLU:OE1	2.67	0.42
1:AA:119:A:C4	1:AA:240:C:N4	2.88	0.42
1:AA:342:C:O2'	1:AA:343:U:H5'	2.18	0.42
1:AA:488:C:O2'	1:AA:489:C:H5'	2.18	0.42
1:AA:630:G:C3'	1:AA:631:G:H5'	2.49	0.42
1:AA:667:G:H4'	15:AO:51:HIS:ND1	2.34	0.42
1:AA:675:A:H1'	11:AK:116:HIS:CD2	2.54	0.42
1:AA:680:C:N3	1:AA:711:G:C2	2.87	0.42
1:AA:719:C:C6	1:AA:720:C:C5	3.07	0.42
1:AA:874:G:C6	1:AA:875:C:C4	3.07	0.42
1:AA:1095:U:P	1:AA:1108:G:H1	2.42	0.42
1:AA:1161:C:O2'	1:AA:1162:C:H5'	2.19	0.42
1:AA:1422:G:C2	1:AA:1423:G:N7	2.88	0.42
2:AB:11:LEU:C	2:AB:13:ALA:N	2.72	0.42
2:AB:97:TRP:O	2:AB:98:LEU:O	2.38	0.42
3:AC:7:PRO:HG2	3:AC:184:TYR:CD2	2.54	0.42
4:AD:49:ARG:O	4:AD:50:ARG:C	2.57	0.42
4:AD:59:ARG:HA	4:AD:59:ARG:NE	2.35	0.42
11:AK:12:ARG:HE	11:AK:14:VAL:HG13	1.85	0.42
11:AK:90:GLY:O	11:AK:93:GLN:N	2.52	0.42
15:AO:9:GLN:O	15:AO:12:ILE:N	2.53	0.42
15:AO:81:LEU:HB3	15:AO:82:ILE:H	1.67	0.42
16:AP:52:ASP:HB3	16:AP:55:ARG:HB2	2.00	0.42
17:AQ:90:ILE:HG22	17:AQ:94:ASN:HD21	1.85	0.42
19:AS:51:VAL:HG23	19:AS:60:VAL:CG1	2.35	0.42
25:AZ:21:ASP:N	62:AZ:501:GDP:O1B	2.47	0.42
25:AZ:234:ARG:HD2	25:AZ:289:LEU:HD21	2.00	0.42
26:B0:23:VAL:HG22	26:B0:38:VAL:CG2	2.49	0.42
26:B0:75:LEU:HA	26:B0:75:LEU:HD23	1.77	0.42
28:B2:27:GLU:O	28:B2:30:ARG:HB3	2.20	0.42
28:B2:63:VAL:O	28:B2:64:LEU:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:44:THR:HG22	31:B5:45:VAL:N	2.24	0.42
32:B6:42:TRP:CD2	36:BA:2348:U:O2'	2.73	0.42
36:BA:412:A:H3'	36:BA:413:C:C6	2.55	0.42
36:BA:444:C:C2'	36:BA:445:C:O5'	2.67	0.42
36:BA:467:G:H8	36:BA:467:G:OP2	2.02	0.42
36:BA:500:G:H22	36:BA:503:A:P	2.41	0.42
36:BA:769:G:O4'	36:BA:1379:A:C6	2.72	0.42
36:BA:806:C:O2'	36:BA:807:U:H5'	2.19	0.42
36:BA:1210:A:H4'	36:BA:1211:U:O5'	2.19	0.42
36:BA:1360:A:C6	36:BA:1372:U:N3	2.86	0.42
36:BA:1446:C:N4	36:BA:1465:G:H1	2.16	0.42
36:BA:1464:C:N3	36:BA:1465:G:N7	2.67	0.42
36:BA:1478:G:N2	36:BA:1479:G:C4	2.87	0.42
36:BA:1541:G:C8	36:BA:1542:A:C6	3.07	0.42
36:BA:1667:G:OP2	36:BA:1667:G:C8	2.62	0.42
36:BA:1747:G:H2'	36:BA:1747(A):G:H8	1.85	0.42
36:BA:1759:A:O5'	36:BA:1759:A:H8	2.01	0.42
36:BA:1858:G:O2'	36:BA:1859:A:H8	2.02	0.42
36:BA:2152:G:H2'	36:BA:2153:G:H8	1.84	0.42
36:BA:2175:C:C5'	38:BC:219:GLY:O	2.62	0.42
36:BA:2330:G:O2'	36:BA:2331:G:H5'	2.19	0.42
36:BA:2645:G:C3'	36:BA:2646:C:C5'	2.85	0.42
36:BA:2880:C:O2'	50:BR:90:ARG:NH1	2.46	0.42
39:BD:34:VAL:CG2	39:BD:35:LYS:N	2.81	0.42
39:BD:74:GLY:O	39:BD:76:PRO:HD3	2.20	0.42
39:BD:142:VAL:HG23	39:BD:192:THR:C	2.39	0.42
40:BE:69:LYS:C	40:BE:71:GLY:N	2.73	0.42
40:BE:83:ASP:O	40:BE:84:PHE:CB	2.66	0.42
41:BF:59:TYR:N	41:BF:59:TYR:CD2	2.82	0.42
41:BF:97:TYR:N	41:BF:97:TYR:CD2	2.87	0.42
42:BG:36:LYS:HG2	42:BG:94:LEU:O	2.20	0.42
42:BG:120:LEU:O	42:BG:122:PRO:N	2.53	0.42
42:BG:138:GLN:HG3	42:BG:139:LEU:H	1.83	0.42
46:BN:39:ARG:N	53:BU:67:ALA:HB1	2.35	0.42
48:BP:122:PRO:HG3	48:BP:141:ALA:HB3	2.01	0.42
48:BP:136:GLU:HA	48:BP:136:GLU:OE1	2.19	0.42
49:BQ:116:GLU:O	49:BQ:119:ARG:N	2.52	0.42
52:BT:89:VAL:CG1	52:BT:91:ARG:HG3	2.46	0.42
54:BV:22:VAL:O	54:BV:23:GLU:HB2	2.19	0.42
57:BY:86:ARG:HB3	57:BY:88:LYS:HZ2	1.80	0.42
57:BY:86:ARG:NH2	57:BY:95:LYS:HZ2	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:27:VAL:O	58:BZ:27:VAL:CG1	2.66	0.42
58:BZ:76:LEU:O	58:BZ:77:ASP:HB2	2.18	0.42
1:CA:146:G:N3	1:CA:146:G:H2'	2.33	0.42
1:CA:166:G:H2'	1:CA:167:G:C8	2.55	0.42
1:CA:375:U:H2'	1:CA:376:G:H8	1.85	0.42
1:CA:452:A:HO2'	1:CA:453:A:H5''	1.78	0.42
1:CA:507:C:OP2	1:CA:508:C:H3'	2.19	0.42
1:CA:597:G:C8	1:CA:598:U:C5	3.08	0.42
1:CA:750:G:N2	15:CO:23:GLY:HA3	2.35	0.42
1:CA:858:G:H8	1:CA:858:G:C5'	2.31	0.42
1:CA:949:A:C6	1:CA:950:U:N3	2.87	0.42
1:CA:954:G:H4'	13:CM:120:LYS:HD2	1.98	0.42
1:CA:977:A:H61	1:CA:1224:G:P	2.43	0.42
1:CA:1010:G:N2	1:CA:1020:U:H1'	2.35	0.42
1:CA:1308:U:OP2	13:CM:99:ARG:HD2	2.19	0.42
1:CA:1311:G:C6	1:CA:1312:G:C5	3.08	0.42
1:CA:1379:G:H2'	1:CA:1380:U:C6	2.53	0.42
2:CB:58:ILE:O	2:CB:61:LEU:N	2.52	0.42
2:CB:104:ASN:O	2:CB:105:PHE:C	2.57	0.42
2:CB:127:ILE:O	2:CB:129:GLU:O	2.37	0.42
3:CC:44:GLU:O	3:CC:45:LYS:C	2.56	0.42
3:CC:77:ILE:CA	3:CC:83:ARG:HB3	2.49	0.42
4:CD:189:PRO:CB	4:CD:194:LEU:HD21	2.37	0.42
5:CE:107:ARG:C	5:CE:109:ILE:H	2.22	0.42
6:CF:71:ARG:HG3	6:CF:71:ARG:HH11	1.84	0.42
7:CG:50:ILE:C	7:CG:52:GLU:H	2.23	0.42
12:CL:23:LYS:C	12:CL:24:VAL:HG23	2.40	0.42
12:CL:102:ARG:HA	12:CL:102:ARG:HD2	1.71	0.42
13:CM:115:LYS:O	13:CM:117:VAL:HG23	2.19	0.42
13:CM:116:THR:C	13:CM:117:VAL:HG23	2.40	0.42
14:CN:4:LYS:HB3	14:CN:5:ALA:H	1.68	0.42
22:CW:76:A:H1'	36:DA:2421:G:N2	2.35	0.42
25:CZ:243:GLU:HG2	25:CZ:345:ARG:HH21	1.84	0.42
25:CZ:334:PHE:N	25:CZ:334:PHE:CD1	2.87	0.42
25:CZ:355:LEU:CD2	25:CZ:359:VAL:HB	2.34	0.42
27:D1:3:LYS:HE2	27:D1:4:VAL:HG12	2.00	0.42
28:D2:29:LYS:O	28:D2:33:MET:N	2.39	0.42
29:D3:28:LEU:N	29:D3:28:LEU:CD2	2.68	0.42
34:D8:4:MET:HE3	34:D8:61:LEU:CD2	2.48	0.42
36:DA:253:C:H2'	36:DA:254:G:O4'	2.19	0.42
36:DA:440:G:H8	36:DA:440:G:O5'	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:483:A:C1'	57:DY:60:PHE:CZ	2.97	0.42
36:DA:794:G:C6	36:DA:795:C:C4	3.08	0.42
36:DA:852:G:HO2'	36:DA:853:G:H5'	1.81	0.42
36:DA:1106:G:C2	36:DA:1107:G:H1'	2.55	0.42
36:DA:1203:G:N1	36:DA:1241:A:OP2	2.40	0.42
36:DA:1233:C:C4	36:DA:1234:U:C5	3.07	0.42
36:DA:1336:A:O2'	36:DA:1337:G:H5'	2.19	0.42
36:DA:1381:G:O2'	36:DA:1382:G:H5'	2.20	0.42
36:DA:1833:U:O2	36:DA:1969:A:C2	2.71	0.42
36:DA:1860:G:H2'	36:DA:1861:G:C8	2.54	0.42
36:DA:2036:C:H5'	36:DA:2036:C:C6	2.45	0.42
36:DA:2065:C:H2'	36:DA:2066:C:H6	1.82	0.42
36:DA:2133:G:C8	36:DA:2133:G:C3'	3.03	0.42
36:DA:2283:C:C2'	36:DA:2284:C:H5'	2.50	0.42
36:DA:2839:G:O2'	50:DR:92:GLY:HA2	2.20	0.42
37:DB:43:C:H2'	37:DB:44:G:H5''	2.01	0.42
38:DC:57:ASN:N	38:DC:57:ASN:HD22	2.18	0.42
39:DD:35:LYS:HD2	39:DD:36:PRO:CA	2.48	0.42
39:DD:69:ARG:NH1	39:DD:128:GLY:O	2.43	0.42
39:DD:96:HIS:CE1	39:DD:102:LYS:CE	3.02	0.42
39:DD:193:VAL:HG13	39:DD:193:VAL:O	2.20	0.42
39:DD:244:ARG:HG2	39:DD:245:PRO:N	2.34	0.42
41:DF:155:LEU:HG	41:DF:155:LEU:O	2.18	0.42
41:DF:160:ASN:ND2	41:DF:162:LEU:HB2	2.34	0.42
41:DF:194:MET:HB3	41:DF:195:ASP:H	1.52	0.42
43:DH:24:VAL:HG12	43:DH:25:LYS:N	2.33	0.42
46:DN:33:LEU:N	46:DN:33:LEU:CD1	2.83	0.42
46:DN:134:ARG:O	46:DN:136:GLU:N	2.51	0.42
48:DP:122:PRO:HG3	48:DP:141:ALA:HB3	2.01	0.42
50:DR:24:GLN:HE22	50:DR:40:LYS:CD	2.31	0.42
52:DT:50:ILE:HG13	52:DT:99:LEU:CD1	2.49	0.42
52:DT:92:GLY:HA3	52:DT:120:ARG:HH21	1.84	0.42
52:DT:93:ARG:HD2	52:DT:93:ARG:HA	1.91	0.42
54:DV:38:LEU:HD11	54:DV:57:VAL:HB	2.00	0.42
55:DW:5:ALA:CB	55:DW:105:VAL:HB	2.50	0.42
57:DY:64:GLU:O	57:DY:65:ALA:HB2	2.19	0.42
58:DZ:48:PHE:C	58:DZ:50:GLN:N	2.72	0.42
58:DZ:167:PRO:O	58:DZ:168:GLU:HB2	2.19	0.42
1:AA:390:C:H4'	16:AP:28:ARG:NH1	2.26	0.42
1:AA:530:G:O6	23:AX:24:C:H1'	2.20	0.42
1:AA:686:U:C2'	1:AA:687:A:H8	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:919:A:HO2'	1:AA:1080:A:N6	2.17	0.42
1:AA:1345:U:C4	1:AA:1377:A:N3	2.87	0.42
1:AA:1399:C:H4'	1:AA:1400:C:O5'	2.20	0.42
2:AB:101:MET:HA	2:AB:108:ILE:HG13	2.02	0.42
2:AB:111:ARG:HG2	2:AB:111:ARG:HH11	1.85	0.42
2:AB:230:VAL:HB	2:AB:231:GLU:H	1.66	0.42
3:AC:6:HIS:HD2	3:AC:7:PRO:CD	2.32	0.42
3:AC:28:GLN:O	3:AC:29:TYR:C	2.58	0.42
4:AD:129:ASN:HD21	4:AD:145:GLU:H	1.67	0.42
6:AF:67:MET:HB2	6:AF:68:PRO:CD	2.44	0.42
6:AF:69:GLU:CD	6:AF:69:GLU:N	2.63	0.42
7:AG:94:ARG:O	7:AG:97:GLN:HB3	2.19	0.42
8:AH:136:GLU:HG3	8:AH:136:GLU:O	2.18	0.42
9:AI:80:GLY:C	9:AI:82:ALA:N	2.73	0.42
9:AI:94:ALA:O	9:AI:95:LYS:CB	2.68	0.42
18:AR:37:VAL:O	18:AR:41:LYS:N	2.32	0.42
19:AS:31:ILE:O	19:AS:31:ILE:HG12	2.20	0.42
25:AZ:197:ASP:HA	25:AZ:200:TRP:HD1	1.82	0.42
25:AZ:355:LEU:CD2	25:AZ:370:PHE:HB3	2.26	0.42
26:B0:14:ARG:HG3	26:B0:14:ARG:HH11	1.84	0.42
26:B0:30:VAL:HA	26:B0:66:VAL:N	2.34	0.42
28:B2:35:LEU:CG	28:B2:50:ILE:HG13	2.49	0.42
32:B6:11:LEU:O	32:B6:24:GLU:O	2.37	0.42
32:B6:15:GLU:HB2	32:B6:20:ASN:HB2	2.01	0.42
32:B6:30:THR:HG21	36:BA:2286:A:OP2	2.19	0.42
32:B6:41:PRO:O	32:B6:45:LYS:HB3	2.19	0.42
34:B8:6:THR:HG21	34:B8:63:PRO:HD3	2.01	0.42
34:B8:7:HIS:O	34:B8:9:GLY:N	2.51	0.42
36:BA:416:C:O2'	36:BA:417:C:H5'	2.19	0.42
36:BA:511:U:O5'	36:BA:511:U:H6	2.03	0.42
36:BA:654(S):G:H2'	36:BA:654(T):C:O4'	2.20	0.42
36:BA:813:U:H2'	36:BA:814:C:C5	2.53	0.42
36:BA:942:G:H5'	48:BP:35:HIS:O	2.19	0.42
36:BA:1253:A:N6	54:BV:80:GLN:HE22	2.18	0.42
36:BA:1373:A:C2'	36:BA:1374:G:H5'	2.49	0.42
36:BA:1406:U:N3	36:BA:1597:A:C2	2.87	0.42
36:BA:1492:G:C2	36:BA:1499:C:O2	2.72	0.42
36:BA:1790:C:H5''	36:BA:1791:A:OP1	2.19	0.42
36:BA:1907:G:H2'	36:BA:1908:C:H6	1.83	0.42
36:BA:1971:A:N3	39:BD:241:PRO:HD3	2.34	0.42
36:BA:1993:U:C5'	40:BE:128:SER:HB3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2043:C:H2'	36:BA:2044:C:C6	2.54	0.42
36:BA:2137:C:O2'	36:BA:2138:C:H5'	2.19	0.42
36:BA:2166:G:H2'	36:BA:2167:U:C6	2.54	0.42
36:BA:2361:A:H2'	36:BA:2362:G:C8	2.48	0.42
36:BA:2482:G:C8	36:BA:2483:C:C5	3.08	0.42
36:BA:2625:G:H2'	36:BA:2626:C:O4'	2.19	0.42
36:BA:2756:U:O2'	36:BA:2757:A:H5''	2.19	0.42
36:BA:2819:G:N2	36:BA:2828:C:C2	2.87	0.42
36:BA:2861:G:C2'	36:BA:2862:G:H5'	2.49	0.42
37:BB:104:U:O3'	58:BZ:72:ARG:NH1	2.52	0.42
41:BF:7:TYR:HD2	41:BF:16:GLY:HA3	1.83	0.42
41:BF:103:LYS:HG2	41:BF:106:ARG:NH2	2.34	0.42
42:BG:34:LEU:O	42:BG:34:LEU:CD1	2.65	0.42
42:BG:102:PHE:O	42:BG:104:GLU:N	2.53	0.42
43:BH:19:VAL:CG1	43:BH:20:ALA:H	2.32	0.42
43:BH:97:ARG:O	43:BH:103:LEU:HD12	2.19	0.42
46:BN:28:THR:CG2	46:BN:29:LYS:N	2.56	0.42
46:BN:128:HIS:CD2	46:BN:130:HIS:CE1	3.06	0.42
48:BP:97:PRO:HD3	48:BP:126:VAL:O	2.20	0.42
48:BP:112:LEU:HD13	48:BP:112:LEU:C	2.40	0.42
49:BQ:45:GLN:H	49:BQ:45:GLN:CD	2.13	0.42
49:BQ:51:ARG:HG2	49:BQ:52:VAL:N	2.34	0.42
49:BQ:141:GLN:CD	58:BZ:72:ARG:CD	2.88	0.42
51:BS:66:ALA:O	51:BS:67:ARG:C	2.57	0.42
52:BT:50:ILE:HG13	52:BT:99:LEU:CD1	2.50	0.42
53:BU:17:ILE:HD12	53:BU:17:ILE:N	2.33	0.42
54:BV:36:PRO:HA	54:BV:56:SER:HB2	1.99	0.42
55:BW:112:GLY:O	55:BW:113:LYS:O	2.37	0.42
56:BX:12:VAL:HG12	56:BX:27:THR:H	1.83	0.42
1:CA:154:C:H2'	1:CA:155:C:H6	1.81	0.42
1:CA:220:G:H2'	1:CA:220:G:N3	2.34	0.42
1:CA:260:G:C2'	1:CA:261:U:H5'	2.49	0.42
1:CA:265:G:H5'	17:CQ:64:PRO:O	2.19	0.42
1:CA:302:G:H2'	1:CA:303:A:H8	1.85	0.42
1:CA:368:U:P	25:CZ:291:ARG:HH11	2.43	0.42
1:CA:607:A:H2'	1:CA:608:A:C8	2.55	0.42
1:CA:748:C:O2'	1:CA:749:C:P	2.77	0.42
1:CA:1150:U:H1'	1:CA:1280:A:C6	2.54	0.42
1:CA:1345:U:C4	1:CA:1377:A:N3	2.87	0.42
1:CA:1439:C:O2	1:CA:1439:C:H2'	2.19	0.42
2:CB:162:ILE:HG23	2:CB:184:VAL:HG13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:172:ILE:H	2:CB:172:ILE:CD1	2.21	0.42
3:CC:58:GLU:O	3:CC:65:ALA:CB	2.68	0.42
3:CC:113:ALA:H	3:CC:202:ILE:HD12	1.84	0.42
4:CD:13:ARG:HH22	4:CD:40:PRO:HA	1.85	0.42
4:CD:57:ARG:NH2	4:CD:205:GLU:OE2	2.52	0.42
6:CF:62:TRP:CE2	18:CR:35:ARG:NH2	2.87	0.42
7:CG:37:ASN:O	7:CG:38:LEU:C	2.58	0.42
8:CH:17:THR:O	8:CH:20:TYR:N	2.51	0.42
8:CH:33:GLU:O	8:CH:36:LEU:N	2.52	0.42
8:CH:103:VAL:HG21	8:CH:109:ILE:O	2.19	0.42
8:CH:127:LEU:HD22	8:CH:127:LEU:HA	1.91	0.42
9:CI:4:TYR:HB2	9:CI:19:LEU:CB	2.32	0.42
11:CK:33:THR:HG21	11:CK:37:GLY:O	2.19	0.42
17:CQ:83:ASP:O	17:CQ:86:GLU:HB2	2.20	0.42
24:CY:1:G:OP1	25:CZ:348:ASP:OD1	2.38	0.42
24:CY:56:C:O2'	24:CY:57:G:H5'	2.17	0.42
25:CZ:138:VAL:CG2	25:CZ:174:SER:N	2.83	0.42
26:D0:12:ASN:HA	26:D0:14:ARG:NH1	2.34	0.42
26:D0:24:LYS:CD	36:DA:2355:C:H4'	2.49	0.42
26:D0:24:LYS:NZ	36:DA:2355:C:O2'	2.47	0.42
32:D6:20:ASN:HD21	32:D6:42:TRP:H	1.67	0.42
35:D9:29:ASN:HD22	35:D9:29:ASN:C	2.19	0.42
36:DA:15:G:C6	36:DA:16:G:C5	3.08	0.42
36:DA:16:G:O2'	36:DA:17:G:H5'	2.19	0.42
36:DA:141:A:N6	36:DA:142:A:N6	2.68	0.42
36:DA:242:G:O2'	36:DA:254:G:O6	2.36	0.42
36:DA:252:G:P	48:DP:50:ARG:NH1	2.92	0.42
36:DA:479:A:H1'	36:DA:481:G:H5''	2.01	0.42
36:DA:487:C:O4'	55:DW:56:ALA:HB3	2.19	0.42
36:DA:575:A:C2'	36:DA:576:U:H5'	2.49	0.42
36:DA:659:C:H6	36:DA:659:C:O5'	2.02	0.42
36:DA:882:G:N2	36:DA:895:U:C2	2.87	0.42
36:DA:919:G:H22	36:DA:2268:A:H3'	1.84	0.42
36:DA:1017:G:N3	36:DA:1017:G:H2'	2.35	0.42
36:DA:1051:G:H2'	36:DA:1052:C:C2	2.54	0.42
36:DA:1142(A):A:H8	36:DA:1142(A):A:H5'	1.84	0.42
36:DA:1150:C:H2'	36:DA:1151:G:O4'	2.19	0.42
36:DA:1466:G:C3'	36:DA:1547:C:H41	2.29	0.42
36:DA:1596:A:O2'	36:DA:1597:A:H5'	2.20	0.42
36:DA:1625:C:H2'	36:DA:1626:G:O4'	2.19	0.42
36:DA:1653:G:O2'	50:DR:3:HIS:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1801:G:C3'	36:DA:1802:A:H5'	2.49	0.42
36:DA:1827:C:H2'	36:DA:1828:G:C4'	2.49	0.42
36:DA:1975:G:C2	36:DA:1976:U:C2	3.08	0.42
36:DA:2134:A:H2	36:DA:2159:G:H4'	1.84	0.42
36:DA:2199:A:H5'	36:DA:2200:C:OP2	2.19	0.42
36:DA:2526:G:H8	36:DA:2526:G:O5'	2.01	0.42
36:DA:2628:C:O2'	36:DA:2782:G:OP1	2.31	0.42
36:DA:2732:G:O2'	36:DA:2733:A:H5'	2.20	0.42
36:DA:2781:A:H5'	36:DA:2782:G:O4'	2.20	0.42
36:DA:2851:A:H2'	36:DA:2852:G:H5'	2.00	0.42
37:DB:67:G:O2'	37:DB:68:C:O5'	2.34	0.42
39:DD:69:ARG:NH2	39:DD:130:ALA:HB2	2.34	0.42
39:DD:167:GLY:O	39:DD:173:VAL:HG23	2.20	0.42
39:DD:187:GLY:C	39:DD:189:CYS:H	2.22	0.42
40:DE:13:ARG:O	52:DT:57:PHE:CE1	2.71	0.42
40:DE:93:VAL:HG23	40:DE:180:ASN:OD1	2.19	0.42
40:DE:129:HIS:O	40:DE:130:GLY:O	2.38	0.42
41:DF:6:VAL:CG1	41:DF:7:TYR:H	2.17	0.42
41:DF:118:ALA:CA	41:DF:123:LEU:HB2	2.44	0.42
43:DH:56:SER:HB2	43:DH:58:GLU:HG3	2.01	0.42
45:DK:20:UNK:HA	45:DK:24:UNK:CB	2.49	0.42
51:DS:68:GLN:C	51:DS:70:GLY:H	2.23	0.42
57:DY:17:SER:HB3	57:DY:71:LYS:HB3	2.01	0.42
57:DY:81:LYS:HB2	57:DY:81:LYS:HE3	1.82	0.42
58:DZ:127:LYS:H	58:DZ:163:LEU:HA	1.83	0.42
1:AA:127:G:H2'	1:AA:128:G:H8	1.84	0.42
1:AA:182:U:OP2	1:AA:183:G:OP2	2.37	0.42
1:AA:266:G:O2'	1:AA:267:C:OP2	2.34	0.42
1:AA:325:A:N6	1:AA:326:G:C2	2.88	0.42
1:AA:428:G:O2'	1:AA:429:U:P	2.77	0.42
1:AA:533:A:O2'	1:AA:535:A:OP2	2.34	0.42
1:AA:707:C:O2'	1:AA:708:C:C5'	2.67	0.42
1:AA:880:C:P	12:AL:12:ARG:HH11	2.42	0.42
1:AA:961:U:O2'	1:AA:962:C:C5'	2.68	0.42
1:AA:993:G:N1	1:AA:1046:A:C4	2.87	0.42
1:AA:1398:A:N6	5:AE:21:ALA:HA	2.34	0.42
2:AB:219:VAL:O	2:AB:223:ILE:HG13	2.20	0.42
3:AC:92:ALA:CA	3:AC:99:VAL:HG11	2.50	0.42
4:AD:59:ARG:HE	4:AD:59:ARG:CA	2.33	0.42
4:AD:60:GLU:HG2	4:AD:202:LEU:HB2	1.99	0.42
4:AD:121:VAL:O	4:AD:134:ASP:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:132:ALA:O	5:AE:135:THR:HB	2.18	0.42
7:AG:9:VAL:HG22	7:AG:94:ARG:HH11	1.84	0.42
7:AG:42:ILE:C	7:AG:44:TYR:N	2.72	0.42
7:AG:97:GLN:O	7:AG:98:SER:C	2.58	0.42
10:AJ:38:ILE:HD11	10:AJ:71:LEU:CG	2.49	0.42
12:AL:62:SER:C	12:AL:64:TYR:N	2.73	0.42
12:AL:93:LEU:O	12:AL:94:PRO:O	2.38	0.42
13:AM:94:ARG:HD2	13:AM:94:ARG:N	2.34	0.42
13:AM:107:ALA:O	13:AM:109:THR:N	2.52	0.42
13:AM:115:LYS:O	13:AM:116:THR:O	2.38	0.42
15:AO:55:GLY:O	15:AO:56:LEU:C	2.58	0.42
18:AR:53:ARG:CG	18:AR:63:GLN:HB2	2.50	0.42
20:AT:14:LYS:HA	20:AT:17:ARG:HH21	1.84	0.42
20:AT:93:GLU:C	20:AT:93:GLU:CD	2.79	0.42
22:AV:18:G:C4	22:AV:58:A:C2	3.08	0.42
24:AY:30:C:H42	24:AY:40:G:H1	1.67	0.42
25:AZ:13:ASN:HA	25:AZ:78:SER:HB2	2.00	0.42
25:AZ:215:ARG:O	25:AZ:216:ASP:C	2.57	0.42
25:AZ:300:ARG:HG2	25:AZ:300:ARG:HH11	1.85	0.42
27:B1:24:ALA:C	27:B1:26:ARG:N	2.72	0.42
28:B2:21:LEU:HD13	28:B2:64:LEU:CB	2.49	0.42
31:B5:43:HIS:HA	36:BA:2884:U:C5	2.54	0.42
32:B6:11:LEU:HG	32:B6:51:GLU:HG2	2.00	0.42
36:BA:55:G:H2'	36:BA:55:G:N3	2.33	0.42
36:BA:83:G:O2'	36:BA:102:G:N2	2.51	0.42
36:BA:237:C:O2'	36:BA:238:C:H5'	2.20	0.42
36:BA:240:G:O2'	36:BA:257:A:N6	2.53	0.42
36:BA:402:A:H2'	36:BA:403:U:H5'	2.02	0.42
36:BA:491:G:H2'	36:BA:492:A:C8	2.54	0.42
36:BA:564:C:C4	36:BA:565:C:C4	3.07	0.42
36:BA:635:C:H2'	36:BA:636:G:H8	1.83	0.42
36:BA:730:C:O2'	36:BA:731:C:H5'	2.19	0.42
36:BA:1145:C:H2'	36:BA:1146:C:C6	2.54	0.42
36:BA:1346:G:H2'	36:BA:1347:G:C8	2.54	0.42
36:BA:1494:A:HO2'	36:BA:1496:A:H2	1.68	0.42
36:BA:2053:G:C2	36:BA:2054:A:C1'	3.00	0.42
36:BA:2072:G:N2	36:BA:2073:C:C2	2.88	0.42
36:BA:2123:G:O4'	38:BC:172:HIS:HB2	2.19	0.42
36:BA:2331:G:C2	36:BA:2385:C:C4	3.07	0.42
36:BA:2359:C:C4	36:BA:2360:A:C5	3.07	0.42
36:BA:2565:A:H2'	36:BA:2566:A:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2669:G:C2	36:BA:2670:A:C5	3.08	0.42
36:BA:2778:A:O2'	36:BA:2780:G:O2'	2.36	0.42
37:BB:7:G:H3'	37:BB:8:U:C5'	2.32	0.42
39:BD:215:LEU:HB2	39:BD:217:ARG:HG3	2.02	0.42
40:BE:82:ARG:HD2	40:BE:82:ARG:HA	1.76	0.42
41:BF:159:GLY:C	41:BF:164:ARG:HH21	2.22	0.42
42:BG:61:ALA:O	42:BG:65:GLY:N	2.52	0.42
42:BG:129:GLY:HA3	42:BG:163:ALA:O	2.20	0.42
44:BJ:23:UNK:CB	44:BJ:92:UNK:CB	2.98	0.42
46:BN:65:LYS:HB3	46:BN:65:LYS:HZ3	1.83	0.42
46:BN:120:LEU:HD13	46:BN:120:LEU:C	2.40	0.42
46:BN:132:ALA:O	46:BN:133:GLN:CB	2.65	0.42
47:BO:35:VAL:CG1	47:BO:103:ALA:HB3	2.34	0.42
48:BP:78:PRO:CB	48:BP:111:ARG:HH21	2.30	0.42
48:BP:121:LYS:O	48:BP:123:LEU:N	2.40	0.42
48:BP:124:LYS:HD3	48:BP:143:GLY:HA3	2.01	0.42
48:BP:147:LEU:O	48:BP:148:LEU:HB2	2.20	0.42
49:BQ:34:LEU:HA	49:BQ:130:LYS:O	2.20	0.42
49:BQ:111:GLU:OE1	49:BQ:133:ARG:NH2	2.53	0.42
54:BV:31:ALA:O	54:BV:61:VAL:HG13	2.19	0.42
57:BY:15:VAL:CG1	57:BY:20:TYR:O	2.68	0.42
1:CA:429:U:H4'	1:CA:430:A:O5'	2.18	0.42
1:CA:544:G:H5''	4:CD:62:GLN:OE1	2.20	0.42
1:CA:607:A:H2'	1:CA:608:A:H8	1.85	0.42
1:CA:673:G:N2	1:CA:674:G:C2	2.88	0.42
1:CA:713:G:O2'	1:CA:714:G:H5'	2.20	0.42
1:CA:739:C:HO2'	1:CA:740:U:H5'	1.84	0.42
1:CA:977:A:O2'	1:CA:978:A:C5'	2.67	0.42
1:CA:1145:C:H1'	1:CA:1146:A:N7	2.33	0.42
1:CA:1237:C:O4'	1:CA:1334:G:N2	2.52	0.42
2:CB:59:GLU:HB2	2:CB:221:LEU:HD11	2.00	0.42
2:CB:111:ARG:NH1	2:CB:111:ARG:HG2	2.35	0.42
3:CC:141:VAL:O	3:CC:144:SER:N	2.52	0.42
4:CD:16:GLY:HA2	4:CD:33:MET:HE1	2.01	0.42
4:CD:135:LEU:O	4:CD:137:SER:N	2.52	0.42
5:CE:64:ARG:N	5:CE:66:MET:CE	2.83	0.42
6:CF:14:LEU:HD13	6:CF:15:ASP:OD1	2.20	0.42
7:CG:31:MET:SD	7:CG:34:GLY:HA2	2.59	0.42
7:CG:71:PRO:HB3	7:CG:138:LYS:HG3	2.01	0.42
7:CG:87:VAL:HA	7:CG:88:PRO:HD3	1.90	0.42
7:CG:150:ALA:O	7:CG:153:HIS:HE1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:33:GLU:O	8:CH:34:GLU:C	2.57	0.42
8:CH:70:GLN:O	8:CH:71:GLY:O	2.37	0.42
9:CI:86:VAL:O	9:CI:90:PRO:HA	2.20	0.42
11:CK:41:THR:HG21	11:CK:72:ALA:CA	2.47	0.42
13:CM:77:ASN:O	13:CM:81:LEU:HD23	2.20	0.42
24:CY:75:C:H5	25:CZ:231:ILE:HA	1.75	0.42
25:CZ:24:LYS:CE	25:CZ:84:GLY:HA3	2.49	0.42
25:CZ:350:THR:O	25:CZ:375:ILE:HG12	2.19	0.42
28:D2:21:LEU:O	28:D2:21:LEU:HD23	2.18	0.42
29:D3:9:VAL:HG12	29:D3:32:GLN:NE2	2.34	0.42
29:D3:15:TYR:HB3	29:D3:16:PRO:CD	2.49	0.42
32:D6:11:LEU:HD22	32:D6:12:GLU:N	2.31	0.42
34:D8:6:THR:CG2	34:D8:63:PRO:HD3	2.49	0.42
36:DA:71:A:C5	36:DA:73:A:N1	2.88	0.42
36:DA:118:A:H5'	36:DA:119:A:H8	1.85	0.42
36:DA:267:C:H2'	36:DA:268:C:H6	1.83	0.42
36:DA:321:G:N3	41:DF:165:ARG:HD3	2.34	0.42
36:DA:406:G:C6	36:DA:407:G:C6	3.07	0.42
36:DA:460:A:H1'	36:DA:470:A:N6	2.34	0.42
36:DA:548:A:H2'	36:DA:549:G:C5'	2.49	0.42
36:DA:761:A:H8	36:DA:761:A:P	2.43	0.42
36:DA:813:U:H3	36:DA:1194:A:H61	1.68	0.42
36:DA:816:C:H2'	36:DA:817:C:H6	1.84	0.42
36:DA:1474:C:H5'	36:DA:1475:G:P	2.60	0.42
36:DA:1484:G:C3'	36:DA:1485:G:C5'	2.94	0.42
36:DA:1504:C:O2'	36:DA:1505:C:H5'	2.18	0.42
36:DA:1676:A:H2'	36:DA:1677:A:O4'	2.20	0.42
36:DA:1680:U:H2'	36:DA:1681:G:C8	2.55	0.42
36:DA:1829:A:N6	36:DA:1977:A:N6	2.68	0.42
36:DA:1834:U:H5''	36:DA:1835:G:O5'	2.19	0.42
36:DA:2133:G:C1'	36:DA:2157:G:H22	2.33	0.42
36:DA:2308:G:C2	36:DA:2309:A:C6	3.07	0.42
36:DA:2319:G:O6	51:DS:11:LYS:HD3	2.20	0.42
36:DA:2543:G:H2'	36:DA:2544:G:C8	2.55	0.42
36:DA:2732:G:C3'	36:DA:2733:A:H5'	2.49	0.42
37:DB:98:G:C4	37:DB:99:G:C8	3.07	0.42
38:DC:76:ALA:HA	38:DC:114:VAL:CG2	2.49	0.42
39:DD:72:LYS:HB3	39:DD:75:ILE:HB	2.02	0.42
40:DE:83:ASP:O	40:DE:84:PHE:CB	2.66	0.42
41:DF:28:ILE:O	41:DF:28:ILE:HG12	2.19	0.42
41:DF:37:VAL:HG22	41:DF:183:VAL:CG2	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:110:LEU:HD12	41:DF:206:ILE:CD1	2.49	0.42
41:DF:182:ASN:OD1	41:DF:185:ASP:HB2	2.19	0.42
42:DG:61:ALA:O	42:DG:62:LEU:C	2.57	0.42
47:DO:104:ARG:HB2	47:DO:104:ARG:HH11	1.82	0.42
49:DQ:79:LEU:HD23	49:DQ:80:GLU:HG3	2.01	0.42
49:DQ:135:ASP:HB3	58:DZ:49:ARG:HH11	1.85	0.42
50:DR:3:HIS:O	50:DR:4:LEU:C	2.58	0.42
50:DR:52:ILE:O	50:DR:55:ALA:N	2.52	0.42
51:DS:63:THR:O	51:DS:65:VAL:N	2.52	0.42
54:DV:29:PRO:CA	54:DV:61:VAL:CG2	2.90	0.42
57:DY:67:LEU:HD23	57:DY:68:HIS:N	2.35	0.42
57:DY:76:CYS:O	57:DY:78:ALA:N	2.52	0.42
1:AA:59:A:H3'	1:AA:331:G:H22	1.83	0.42
1:AA:204:U:O2	1:AA:204:U:O4'	2.37	0.42
1:AA:236:G:H2'	1:AA:237:C:O4'	2.19	0.42
1:AA:328:C:O2	1:AA:328:C:C2'	2.67	0.42
1:AA:447:G:C2'	1:AA:485:G:H22	2.28	0.42
1:AA:522:C:H1'	1:AA:536:C:H5'	2.01	0.42
1:AA:524:G:OP1	1:AA:524:G:H8	2.02	0.42
1:AA:734:G:H2'	1:AA:735:C:H6	1.82	0.42
1:AA:864:A:C2	1:AA:917:G:N3	2.85	0.42
1:AA:889:A:H1'	1:AA:891:U:C5	2.54	0.42
1:AA:917:G:C2	1:AA:918:A:C4	3.07	0.42
1:AA:961:U:H5'	1:AA:984:C:H1'	2.02	0.42
1:AA:967:C:H2'	1:AA:968:A:N7	2.34	0.42
1:AA:1003:G:N2	1:AA:1038:C:N3	2.68	0.42
1:AA:1300:G:O2'	1:AA:1301:U:OP2	2.35	0.42
1:AA:1531:A:H8	1:AA:1531:A:C5'	2.32	0.42
2:AB:25:ASN:HA	2:AB:26:PRO:HD2	1.90	0.42
3:AC:70:VAL:O	3:AC:106:VAL:CG2	2.63	0.42
3:AC:112:SER:HA	3:AC:183:ASP:OD1	2.19	0.42
3:AC:141:VAL:O	3:AC:144:SER:N	2.53	0.42
3:AC:157:ILE:HD13	3:AC:166:GLU:HB2	2.00	0.42
3:AC:186:PHE:CD1	3:AC:198:VAL:O	2.73	0.42
5:AE:34:VAL:CG1	5:AE:62:ALA:HB1	2.50	0.42
5:AE:101:ILE:O	5:AE:120:THR:CG2	2.66	0.42
5:AE:139:LEU:HA	5:AE:142:LEU:HG	2.02	0.42
7:AG:36:LYS:HA	7:AG:39:ALA:CB	2.46	0.42
7:AG:62:PHE:HD1	7:AG:124:LEU:HD11	1.85	0.42
8:AH:6:ILE:HG22	8:AH:7:ALA:N	2.35	0.42
11:AK:41:THR:HG21	11:AK:72:ALA:CA	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:17:LYS:CE	12:AL:18:VAL:HG22	2.49	0.42
12:AL:126:LYS:C	12:AL:128:ALA:N	2.73	0.42
13:AM:19:LEU:H	13:AM:19:LEU:CD2	2.32	0.42
14:AN:47:LEU:O	14:AN:50:LYS:N	2.52	0.42
15:AO:76:GLU:C	15:AO:78:TYR:H	2.22	0.42
20:AT:81:LYS:C	20:AT:83:ARG:N	2.73	0.42
25:AZ:89:ILE:O	25:AZ:92:MET:N	2.42	0.42
25:AZ:334:PHE:N	25:AZ:334:PHE:CD1	2.87	0.42
26:B0:12:ASN:HA	26:B0:14:ARG:NH1	2.34	0.42
28:B2:48:HIS:C	28:B2:50:ILE:H	2.23	0.42
28:B2:50:ILE:HG21	36:BA:61:G:H5'	2.02	0.42
30:B4:30:GLU:C	30:B4:31:ILE:HD12	2.40	0.42
35:B9:22:ARG:NH1	36:BA:2741:A:OP1	2.53	0.42
36:BA:18:C:H2'	36:BA:19:C:C6	2.55	0.42
36:BA:27:G:H22	36:BA:512:G:H2'	1.77	0.42
36:BA:321:G:N3	41:BF:165:ARG:HD3	2.34	0.42
36:BA:530:G:C6	36:BA:2022:U:H5''	2.54	0.42
36:BA:846:C:O5'	36:BA:846:C:H6	2.01	0.42
36:BA:880:G:C2	36:BA:881:G:N7	2.87	0.42
36:BA:1092:C:N4	36:BA:1093:G:C2	2.87	0.42
36:BA:1394:U:C4	36:BA:1395:A:C5	3.08	0.42
36:BA:1759:A:C8	36:BA:2696:U:O2	2.72	0.42
36:BA:1786:A:C5	36:BA:1938:A:C2	3.07	0.42
36:BA:1851:U:O2'	36:BA:1852:C:H5'	2.19	0.42
36:BA:1889:A:N1	36:BA:2234:G:H1'	2.35	0.42
36:BA:2207:G:H5''	36:BA:2207:G:N3	2.35	0.42
36:BA:2267:A:H3'	36:BA:2267:A:N3	2.34	0.42
36:BA:2370:G:H2'	36:BA:2371:G:C8	2.55	0.42
36:BA:2439:A:OP1	36:BA:2439:A:H2'	2.20	0.42
36:BA:2454:G:O2'	36:BA:2455:G:C5'	2.66	0.42
36:BA:2724:C:H2'	36:BA:2725:A:H8	1.81	0.42
38:BC:1:PRO:O	38:BC:3:HIS:N	2.52	0.42
39:BD:11:PRO:C	39:BD:13:ARG:N	2.73	0.42
42:BG:16:ARG:HD2	42:BG:31:VAL:HG21	2.01	0.42
42:BG:40:ASN:OD1	42:BG:40:ASN:C	2.56	0.42
42:BG:44:GLY:O	42:BG:47:LYS:HD2	2.18	0.42
42:BG:58:GLN:HE22	42:BG:62:LEU:CD1	2.29	0.42
42:BG:150:ASP:OD2	42:BG:153:ARG:NH1	2.48	0.42
42:BG:171:ALA:O	42:BG:172:LEU:C	2.58	0.42
47:BO:25:LEU:HD11	47:BO:40:VAL:CG2	2.50	0.42
48:BP:46:LYS:HB3	48:BP:47:ASP:H	1.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:140:ALA:CA	58:BZ:99:TYR:CD1	3.02	0.42
50:BR:56:LYS:C	50:BR:58:GLY:N	2.73	0.42
50:BR:66:VAL:C	50:BR:68:ARG:N	2.71	0.42
51:BS:32:LEU:H	51:BS:32:LEU:HG	1.60	0.42
51:BS:106:ARG:O	51:BS:107:GLU:HB3	2.19	0.42
52:BT:28:VAL:O	52:BT:29:ARG:HB2	2.19	0.42
53:BU:109:LEU:HA	53:BU:112:ARG:HB2	2.01	0.42
54:BV:51:VAL:HG12	54:BV:52:VAL:N	2.33	0.42
56:BX:13:LEU:O	56:BX:14:SER:HB3	2.20	0.42
57:BY:63:LYS:HG2	57:BY:64:GLU:N	2.33	0.42
57:BY:76:CYS:O	57:BY:78:ALA:N	2.53	0.42
1:CA:54:C:O2'	1:CA:55:A:O5'	2.34	0.42
1:CA:438:G:O2'	1:CA:494:U:O4	2.35	0.42
1:CA:532:A:H2	1:CA:1206:G:N2	2.15	0.42
1:CA:596:C:O2	1:CA:596:C:H2'	2.19	0.42
1:CA:773:G:N1	1:CA:774:G:C5	2.88	0.42
1:CA:785:G:C6	1:CA:786:G:N7	2.88	0.42
1:CA:836:G:C5	1:CA:851:G:C6	3.08	0.42
1:CA:974:A:C8	14:CN:31:ARG:HD2	2.54	0.42
1:CA:1014:A:C2	1:CA:1219:U:H1'	2.54	0.42
1:CA:1054:C:OP2	1:CA:1197:G:OP2	2.37	0.42
1:CA:1121:U:H2'	1:CA:1122:U:H6	1.84	0.42
1:CA:1134:G:N2	1:CA:1142:G:C6	2.87	0.42
1:CA:1148:U:H2'	1:CA:1149:C:H5'	2.01	0.42
1:CA:1231:G:C5	1:CA:1232:U:C5	3.08	0.42
1:CA:1281:U:H3'	1:CA:1282:C:H6	1.82	0.42
1:CA:1503:A:C4	23:CX:16:A:C6	3.08	0.42
2:CB:76:GLN:O	2:CB:77:ALA:CB	2.67	0.42
2:CB:157:ARG:NH1	2:CB:157:ARG:HB2	2.34	0.42
2:CB:219:VAL:HA	2:CB:222:ILE:CG1	2.50	0.42
3:CC:25:GLY:O	3:CC:26:LYS:C	2.57	0.42
4:CD:121:VAL:O	4:CD:134:ASP:CB	2.68	0.42
4:CD:145:GLU:HG3	4:CD:184:LYS:HG2	2.02	0.42
4:CD:170:VAL:CG1	4:CD:174:LEU:HB2	2.50	0.42
5:CE:79:GLU:H	5:CE:93:PRO:HD3	1.84	0.42
8:CH:104:ARG:O	8:CH:105:ARG:C	2.58	0.42
10:CJ:43:ARG:HG3	10:CJ:43:ARG:HH11	1.85	0.42
11:CK:108:ILE:HB	18:CR:87:ARG:HA	2.01	0.42
12:CL:89:ARG:HH11	12:CL:91:LYS:HD3	1.81	0.42
16:CP:52:ASP:O	16:CP:53:VAL:C	2.58	0.42
16:CP:74:LEU:HD22	16:CP:79:VAL:HG21	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:17:C:H3'	22:CV:18:G:C5'	2.49	0.42
22:CV:56:C:N3	42:DG:83:ARG:HD3	2.34	0.42
22:CW:66:U:H2'	22:CW:67:C:H6	1.83	0.42
22:CW:68:C:O5'	22:CW:68:C:H6	2.03	0.42
25:CZ:155:ARG:HG2	25:CZ:155:ARG:NH1	2.35	0.42
29:D3:2:PRO:O	29:D3:3:ARG:C	2.57	0.42
31:D5:4:HIS:O	36:DA:2056:G:C2	2.72	0.42
31:D5:40:LYS:HZ1	31:D5:46:CYS:N	2.18	0.42
31:D5:43:HIS:HA	36:DA:2884:U:C5	2.54	0.42
32:D6:20:ASN:C	32:D6:21:TYR:CD1	2.92	0.42
32:D6:42:TRP:CE2	36:DA:2348:U:O2'	2.72	0.42
36:DA:25:U:H2'	36:DA:26:G:C8	2.55	0.42
36:DA:250:G:OP1	36:DA:2394:C:H4'	2.19	0.42
36:DA:270:A:N1	36:DA:366:C:O2'	2.47	0.42
36:DA:531:C:O2'	36:DA:563:G:H5''	2.19	0.42
36:DA:654:A:H4'	36:DA:654(A):G:C4'	2.50	0.42
36:DA:757:U:H6	36:DA:757:U:H3'	1.85	0.42
36:DA:846:C:O5'	36:DA:846:C:H6	2.03	0.42
36:DA:1227:G:O2'	36:DA:1228:G:H5'	2.19	0.42
36:DA:1266:G:N2	36:DA:2012:G:H2'	2.35	0.42
36:DA:1383:C:P	36:DA:1573:G:H21	2.42	0.42
36:DA:1838:C:C6	36:DA:1898:U:C5	3.07	0.42
36:DA:2100:G:H2'	36:DA:2100:G:N3	2.35	0.42
36:DA:2189:U:C3'	36:DA:2190:G:H4'	2.50	0.42
36:DA:2332:U:H4'	36:DA:2336:A:H62	1.85	0.42
36:DA:2468:G:H2'	36:DA:2476:A:N7	2.34	0.42
36:DA:2540:C:H2'	36:DA:2541:A:O4'	2.19	0.42
36:DA:2589:A:C2	36:DA:2606:C:N3	2.88	0.42
36:DA:2661:G:H2'	36:DA:2662:A:C8	2.54	0.42
36:DA:2685:G:H5'	47:DO:68:GLU:OE1	2.20	0.42
36:DA:2770:G:C5'	36:DA:2771:C:OP2	2.67	0.42
36:DA:2791:C:H2'	36:DA:2791:C:O2	2.20	0.42
37:DB:6:C:O2	37:DB:6:C:H2'	2.20	0.42
37:DB:15:A:H3'	37:DB:16:G:C5'	2.50	0.42
37:DB:115:G:H4'	51:DS:47:THR:HB	2.02	0.42
39:DD:147:LEU:HD12	39:DD:147:LEU:HA	1.68	0.42
40:DE:78:LEU:HD12	40:DE:78:LEU:C	2.39	0.42
40:DE:178:GLU:CG	40:DE:179:GLU:H	2.33	0.42
42:DG:44:GLY:O	42:DG:47:LYS:CE	2.68	0.42
48:DP:98:GLU:CA	48:DP:101:VAL:HG13	2.50	0.42
48:DP:105:LEU:O	48:DP:106:LEU:CB	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:146:VAL:CG2	48:DP:147:LEU:N	2.67	0.42
49:DQ:42:ILE:O	49:DQ:94:VAL:HG12	2.19	0.42
49:DQ:52:VAL:C	49:DQ:54:MET:N	2.71	0.42
52:DT:57:PHE:CD2	52:DT:57:PHE:C	2.90	0.42
52:DT:91:ARG:HA	52:DT:117:ASP:H	1.85	0.42
53:DU:17:ILE:O	53:DU:18:LEU:C	2.58	0.42
54:DV:22:VAL:O	54:DV:23:GLU:HB2	2.20	0.42
54:DV:58:VAL:HG21	54:DV:98:GLU:HG2	2.02	0.42
58:DZ:45:ASP:O	58:DZ:46:LYS:C	2.57	0.42
1:AA:40:C:H42	1:AA:403:C:N4	2.16	0.42
1:AA:191:G:O2'	20:AT:102:GLY:O	2.33	0.42
1:AA:316:G:N1	1:AA:338:A:C6	2.88	0.42
1:AA:392:G:C4	1:AA:393:A:C8	3.07	0.42
1:AA:503:C:C6	1:AA:504:C:H5	2.38	0.42
1:AA:511:C:N4	1:AA:541:G:C2	2.87	0.42
1:AA:532:A:H3'	1:AA:533:A:H5'	2.01	0.42
1:AA:634:C:O2	1:AA:634:C:H2'	2.19	0.42
1:AA:663:A:C2'	1:AA:664:G:H5'	2.49	0.42
1:AA:773:G:C2	1:AA:774:G:C8	3.08	0.42
1:AA:1055:A:N6	1:AA:1206:G:C6	2.88	0.42
1:AA:1106:G:C2'	1:AA:1107:C:H5'	2.50	0.42
1:AA:1130:A:N6	1:AA:1131:G:O6	2.53	0.42
1:AA:1255:G:N2	1:AA:1258:G:H21	2.15	0.42
1:AA:1519:A:H3'	1:AA:1520:G:H5'	2.02	0.42
2:AB:74:LYS:HZ2	2:AB:76:GLN:HB2	1.85	0.42
4:AD:52:SER:C	4:AD:54:TYR:N	2.71	0.42
4:AD:103:ASN:O	4:AD:104:VAL:C	2.58	0.42
5:AE:119:LEU:HD23	5:AE:119:LEU:HA	1.84	0.42
6:AF:6:VAL:HG22	6:AF:90:VAL:HG23	2.01	0.42
6:AF:93:SER:C	6:AF:94:GLN:HG3	2.39	0.42
7:AG:31:MET:SD	7:AG:34:GLY:HA2	2.60	0.42
7:AG:69:VAL:N	7:AG:138:LYS:HZ2	2.18	0.42
8:AH:120:THR:C	8:AH:122:ARG:N	2.72	0.42
12:AL:85:ILE:HD12	12:AL:85:ILE:HA	1.77	0.42
16:AP:28:ARG:C	16:AP:30:GLY:H	2.22	0.42
17:AQ:6:LEU:HB3	17:AQ:23:VAL:HG11	2.02	0.42
18:AR:31:LEU:CG	18:AR:65:ILE:HD12	2.49	0.42
18:AR:59:SER:O	18:AR:62:GLU:HB2	2.19	0.42
18:AR:63:GLN:HA	18:AR:63:GLN:OE1	2.20	0.42
18:AR:64:ARG:O	18:AR:65:ILE:C	2.55	0.42
19:AS:15:LEU:O	19:AS:19:VAL:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:16:LEU:C	19:AS:19:VAL:H	2.23	0.42
21:AU:18:TYR:HB3	21:AU:22:ARG:O	2.19	0.42
22:AV:68:C:H2'	22:AV:69:G:C4'	2.50	0.42
22:AW:9:A:C2	22:AW:44:G:N1	2.87	0.42
25:AZ:140:MET:O	25:AZ:141:VAL:O	2.38	0.42
25:AZ:199:ILE:HG22	25:AZ:199:ILE:O	2.20	0.42
27:B1:33:LYS:H	27:B1:33:LYS:HG2	1.53	0.42
29:B3:12:PRO:CG	29:B3:13:ILE:H	2.27	0.42
35:B9:7:VAL:HG13	35:B9:34:GLN:HG2	1.99	0.42
36:BA:491:G:H2'	36:BA:492:A:H8	1.84	0.42
36:BA:525:U:O5'	36:BA:556:G:C5'	2.66	0.42
36:BA:596:G:C6	36:BA:597:U:C4	3.08	0.42
36:BA:628:G:C2'	36:BA:629:G:C5'	2.95	0.42
36:BA:742:G:H2'	36:BA:743:G:C8	2.54	0.42
36:BA:769:G:HO2'	36:BA:770:G:H5'	1.83	0.42
36:BA:783:A:C2'	36:BA:784:A:O5'	2.68	0.42
36:BA:1128:A:C5	36:BA:2518:A:N6	2.87	0.42
36:BA:1316:U:H5'	36:BA:1392:A:H1'	2.01	0.42
36:BA:1474:C:H5'	36:BA:1475:G:OP1	2.20	0.42
36:BA:1543:C:C3'	36:BA:1544:A:C5'	2.86	0.42
36:BA:1654:A:H2	40:BE:113:PHE:CE2	2.37	0.42
36:BA:2052:G:O4'	40:BE:142:GLY:HA3	2.19	0.42
36:BA:2110:G:O2'	36:BA:2111:C:H5'	2.20	0.42
36:BA:2126:A:N6	36:BA:2163:C:H4'	2.35	0.42
36:BA:2320:A:N3	36:BA:2320:A:C2'	2.83	0.42
36:BA:2405:G:H2'	36:BA:2411:A:H62	1.81	0.42
36:BA:2598:A:H5''	39:BD:235:GLY:HA3	2.02	0.42
36:BA:2682:U:C1'	40:BE:12:THR:HA	2.50	0.42
36:BA:2777:G:C8	36:BA:2777:G:H3'	2.55	0.42
36:BA:2839:G:C4	36:BA:2840:C:C5	3.08	0.42
37:BB:71:C:H2'	37:BB:71:C:O2	2.18	0.42
38:BC:43:VAL:O	38:BC:43:VAL:HG12	2.20	0.42
38:BC:91:ALA:HB3	38:BC:94:VAL:HG22	2.00	0.42
39:BD:102:LYS:C	39:BD:103:ARG:HG2	2.39	0.42
40:BE:65:GLY:O	40:BE:66:HIS:C	2.58	0.42
41:BF:116:ASP:O	41:BF:120:GLU:OE2	2.38	0.42
41:BF:122:LYS:CB	41:BF:191:ARG:HG3	2.50	0.42
42:BG:32:PRO:CB	42:BG:162:THR:HB	2.50	0.42
42:BG:109:VAL:C	42:BG:111:LEU:H	2.22	0.42
43:BH:121:ILE:HG23	43:BH:133:VAL:CG1	2.49	0.42
46:BN:125:GLY:HA3	46:BN:126:PRO:C	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:12:SER:O	52:BT:13:ARG:NH2	2.53	0.42
52:BT:91:ARG:O	52:BT:117:ASP:CB	2.67	0.42
53:BU:74:LEU:HD12	53:BU:74:LEU:C	2.40	0.42
55:BW:11:ARG:O	55:BW:11:ARG:NE	2.51	0.42
56:BX:74:PRO:O	56:BX:76:ARG:CD	2.68	0.42
58:BZ:94:GLU:O	58:BZ:96:VAL:N	2.52	0.42
58:BZ:118:GLN:CD	58:BZ:120:ILE:HD11	2.39	0.42
1:CA:55:A:H3'	1:CA:56:U:C6	2.55	0.42
1:CA:100:C:H2'	1:CA:101:A:H8	1.76	0.42
1:CA:431:A:C2'	1:CA:432:A:H5'	2.50	0.42
1:CA:438:G:C4'	4:CD:123:HIS:ND1	2.83	0.42
1:CA:503:C:C6	1:CA:504:C:H5	2.37	0.42
1:CA:587:G:O2'	1:CA:588:G:H5'	2.20	0.42
1:CA:782:A:O3'	1:CA:1515:C:H4'	2.20	0.42
1:CA:952:U:H2'	1:CA:953:G:H8	1.85	0.42
1:CA:956:U:C2'	1:CA:957:U:H5'	2.50	0.42
1:CA:959:A:H4'	1:CA:985:C:H5'	2.02	0.42
1:CA:1231:G:H2'	1:CA:1232:U:C6	2.54	0.42
1:CA:1278:U:H5'	1:CA:1279:A:C8	2.55	0.42
1:CA:1281:U:H3'	1:CA:1282:C:C5	2.55	0.42
1:CA:1370:G:C2	1:CA:1371:G:N7	2.88	0.42
1:CA:1423:G:C5	1:CA:1424:C:C5	3.08	0.42
1:CA:1460:A:C6	1:CA:1461:G:C4	3.07	0.42
1:CA:1523:G:H2'	1:CA:1524:C:C5	2.55	0.42
2:CB:224:GLN:C	2:CB:226:ARG:N	2.73	0.42
3:CC:103:VAL:CG1	3:CC:104:GLN:N	2.83	0.42
3:CC:122:GLU:C	3:CC:124:ILE:N	2.72	0.42
10:CJ:49:VAL:CG2	14:CN:41:ARG:CB	2.92	0.42
10:CJ:50:ILE:CD1	14:CN:41:ARG:HD2	2.50	0.42
11:CK:87:THR:HG22	11:CK:88:GLY:N	2.35	0.42
11:CK:102:GLY:C	11:CK:103:LEU:HD22	2.40	0.42
13:CM:57:ARG:C	13:CM:59:TYR:H	2.23	0.42
13:CM:109:THR:HG22	13:CM:110:ARG:N	2.34	0.42
15:CO:58:MET:O	15:CO:62:GLN:HB2	2.19	0.42
17:CQ:7:THR:HA	17:CQ:57:VAL:O	2.20	0.42
18:CR:85:LEU:HD12	18:CR:86:VAL:N	2.35	0.42
24:CY:54:5MU:H2'	24:CY:55:PSU:C5'	2.40	0.42
24:CY:75:C:C6	25:CZ:231:ILE:HA	2.53	0.42
27:D1:52:ARG:O	27:D1:53:VAL:HB	2.20	0.42
33:D7:4:THR:HB	36:DA:788:A:H1'	2.01	0.42
33:D7:19:ARG:NE	36:DA:124:G:H2'	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D7:24:THR:HG23	33:D7:27:GLY:HA3	2.02	0.42
34:D8:6:THR:HG21	34:D8:63:PRO:HD3	2.02	0.42
34:D8:41:ILE:HG23	34:D8:42:ARG:N	2.33	0.42
35:D9:16:VAL:O	35:D9:16:VAL:HG12	2.20	0.42
35:D9:31:LYS:O	35:D9:32:HIS:HD2	2.02	0.42
36:DA:28:A:C8	36:DA:513:A:C5	3.08	0.42
36:DA:209:C:H4'	36:DA:681:G:H4'	2.02	0.42
36:DA:337:C:C3'	36:DA:338:G:H5''	2.49	0.42
36:DA:425:G:C4	36:DA:426:C:C5	3.08	0.42
36:DA:448:U:H1'	41:DF:84:VAL:HG13	2.02	0.42
36:DA:541:C:H2'	36:DA:542:C:C6	2.55	0.42
36:DA:729:G:HO2'	36:DA:763:G:H4'	1.82	0.42
36:DA:784:A:O2'	36:DA:785:G:H8	2.03	0.42
36:DA:833:U:O5'	36:DA:833:U:H6	2.02	0.42
36:DA:880:G:C2	36:DA:881:G:N7	2.88	0.42
36:DA:882:G:N2	36:DA:894:C:H42	2.17	0.42
36:DA:898:C:H2'	36:DA:899:A:C5'	2.45	0.42
36:DA:955:C:H2'	36:DA:956:G:C5'	2.48	0.42
36:DA:1011:G:OP1	53:DU:75:ASN:HB2	2.19	0.42
36:DA:1053:C:H2'	36:DA:1054:A:C8	2.54	0.42
36:DA:1464:C:H2'	36:DA:1465:G:H8	1.85	0.42
36:DA:1663:C:O2'	36:DA:1664:A:H8	2.02	0.42
36:DA:1670:C:C2'	36:DA:1671:U:H5'	2.50	0.42
36:DA:1911:U:O2'	36:DA:1912:A:H5''	2.19	0.42
36:DA:1939:U:OP1	36:DA:2604:U:O2'	2.37	0.42
36:DA:2018:G:H21	53:DU:34:LYS:NZ	2.18	0.42
36:DA:2082:A:N1	36:DA:2239:G:C4	2.88	0.42
36:DA:2130:U:O2	36:DA:2159:G:C2	2.73	0.42
36:DA:2131:G:C1'	36:DA:2133:G:H21	2.33	0.42
36:DA:2305:A:H1'	42:DG:135:LEU:O	2.20	0.42
36:DA:2373:G:O2'	36:DA:2374:C:H5'	2.19	0.42
36:DA:2404:C:H2'	36:DA:2405:G:H8	1.84	0.42
36:DA:2419:U:H2'	36:DA:2420:C:C6	2.53	0.42
36:DA:2481:G:O2'	36:DA:2482:G:P	2.77	0.42
36:DA:2826:A:H2'	36:DA:2827:C:H5'	2.00	0.42
36:DA:2851:A:H2'	36:DA:2852:G:C5'	2.49	0.42
37:DB:64:C:O2'	37:DB:65:C:H5'	2.20	0.42
37:DB:78:A:C5	37:DB:100:A:N7	2.88	0.42
38:DC:156:ILE:CD1	38:DC:160:ARG:NH2	2.83	0.42
38:DC:192:PHE:O	38:DC:195:ALA:N	2.52	0.42
39:DD:91:ARG:CG	39:DD:91:ARG:NH1	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:130:ALA:C	39:DD:131:LEU:HG	2.40	0.42
42:DG:16:ARG:HA	42:DG:16:ARG:HD3	1.78	0.42
42:DG:128:ARG:O	42:DG:129:GLY:O	2.38	0.42
46:DN:101:HIS:O	46:DN:102:ALA:C	2.57	0.42
48:DP:95:VAL:HG13	48:DP:123:LEU:HD12	2.01	0.42
49:DQ:121:ALA:O	49:DQ:125:LEU:HD23	2.20	0.42
52:DT:64:ARG:HH11	52:DT:64:ARG:HG2	1.85	0.42
53:DU:66:ASN:C	53:DU:66:ASN:HD22	2.23	0.42
53:DU:92:ARG:C	53:DU:94:ASN:N	2.71	0.42
54:DV:22:VAL:HG21	54:DV:94:LEU:HG	2.02	0.42
54:DV:29:PRO:O	54:DV:61:VAL:HG22	2.20	0.42
55:DW:71:VAL:C	55:DW:73:ALA:N	2.73	0.42
56:DX:70:LEU:HD23	56:DX:71:GLY:N	2.35	0.42
57:DY:4:LYS:HG3	57:DY:5:MET:N	2.35	0.42
58:DZ:28:MET:O	58:DZ:29:TYR:CB	2.66	0.42
58:DZ:127:LYS:HG3	58:DZ:162:GLU:HG3	2.02	0.42
1:AA:66:G:C2	1:AA:104:G:H1'	2.55	0.42
1:AA:166:G:H2'	1:AA:167:G:H8	1.84	0.42
1:AA:242:C:C2'	1:AA:243:A:H5'	2.48	0.42
1:AA:355:C:N4	1:AA:356:A:H62	2.18	0.42
1:AA:452:A:C6	1:AA:453:A:C6	3.07	0.42
1:AA:582:U:H2'	1:AA:583:A:H8	1.85	0.42
1:AA:585:G:O2'	1:AA:879:C:H5''	2.20	0.42
1:AA:642:A:H2'	1:AA:643:C:H6	1.80	0.42
1:AA:932:C:H2'	1:AA:933:G:H8	1.85	0.42
1:AA:963:G:O2'	1:AA:1199:U:H5''	2.19	0.42
1:AA:1179:A:H5'	9:AI:102:LEU:HD22	2.01	0.42
1:AA:1211:U:H5'	1:AA:1212:U:OP1	2.20	0.42
1:AA:1258:G:O2'	1:AA:1259:C:C5'	2.65	0.42
1:AA:1311:G:C6	1:AA:1312:G:N7	2.87	0.42
1:AA:1356:G:O2'	1:AA:1357:A:C5'	2.67	0.42
1:AA:1368:G:OP1	10:AJ:62:HIS:HE1	2.03	0.42
1:AA:1379:G:H2'	1:AA:1380:U:H6	1.84	0.42
2:AB:22:LYS:CE	2:AB:40:HIS:HE1	2.33	0.42
2:AB:171:ALA:HA	2:AB:174:VAL:HB	2.02	0.42
2:AB:194:PRO:O	2:AB:195:ASP:C	2.57	0.42
2:AB:223:ILE:O	2:AB:226:ARG:CB	2.67	0.42
3:AC:167:TRP:O	3:AC:168:ALA:HB2	2.19	0.42
4:AD:114:ARG:NH1	4:AD:114:ARG:CG	2.83	0.42
5:AE:11:ILE:CG2	5:AE:105:VAL:HG22	2.50	0.42
5:AE:150:ARG:NH1	5:AE:150:ARG:CB	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:24:THR:O	7:AG:28:ASN:ND2	2.53	0.42
7:AG:105:VAL:O	7:AG:107:ALA:N	2.53	0.42
8:AH:4:ASP:OD1	8:AH:4:ASP:C	2.58	0.42
8:AH:97:VAL:CG1	8:AH:98:LYS:N	2.83	0.42
8:AH:100:ILE:HG23	8:AH:101:PRO:CD	2.49	0.42
9:AI:94:ALA:O	9:AI:95:LYS:HB3	2.20	0.42
9:AI:99:LEU:N	9:AI:99:LEU:CD2	2.82	0.42
13:AM:51:ALA:O	13:AM:55:ARG:N	2.40	0.42
13:AM:66:LEU:C	13:AM:70:LEU:HB3	2.40	0.42
14:AN:8:GLU:C	14:AN:10:ALA:N	2.72	0.42
18:AR:78:LEU:HD23	18:AR:78:LEU:HA	1.72	0.42
24:AY:29:C:N4	24:AY:41:G:H1	2.13	0.42
24:AY:53:G:N1	24:AY:62:U:C4	2.88	0.42
25:AZ:71:GLU:HB2	25:AZ:75:ARG:O	2.20	0.42
25:AZ:99:MET:H	25:AZ:241:ARG:HH22	1.67	0.42
25:AZ:363:MET:HB3	25:AZ:364:PRO:HD2	2.01	0.42
28:B2:50:ILE:N	28:B2:50:ILE:CD1	2.82	0.42
31:B5:41:PRO:C	31:B5:44:THR:HG1	2.15	0.42
32:B6:15:GLU:OE2	32:B6:18:ARG:NH2	2.53	0.42
32:B6:23:THR:HG21	36:BA:2419:U:H4'	2.02	0.42
35:B9:9:ARG:NH2	35:B9:12:ASP:O	2.53	0.42
36:BA:265:A:C1'	36:BA:266:G:O4'	2.66	0.42
36:BA:320:A:O2'	36:BA:321:G:H3'	2.20	0.42
36:BA:428:A:C2	36:BA:429:A:C4	3.08	0.42
36:BA:476:G:H2'	36:BA:478:A:OP2	2.20	0.42
36:BA:487:C:O4'	55:BW:56:ALA:HB3	2.19	0.42
36:BA:604:G:O2'	36:BA:605:C:H5'	2.19	0.42
36:BA:954:G:O3'	49:BQ:13:GLN:HG2	2.20	0.42
36:BA:1030:G:C6	36:BA:1125:G:N2	2.88	0.42
36:BA:1601:G:H2'	36:BA:1602:U:H5'	2.01	0.42
36:BA:1670:C:O2'	36:BA:1671:U:H5'	2.20	0.42
36:BA:1772:G:H21	36:BA:1774:C:H5''	1.85	0.42
36:BA:2083:G:H2'	36:BA:2084:C:C6	2.55	0.42
36:BA:2133:G:H3'	36:BA:2133:G:C8	2.54	0.42
36:BA:2152:G:C4	36:BA:2153:G:C8	3.08	0.42
36:BA:2280:G:C2	36:BA:2281:C:C6	3.08	0.42
36:BA:2770:G:C5'	36:BA:2771:C:OP2	2.67	0.42
36:BA:2847:U:OP1	52:BT:98:LYS:HD3	2.19	0.42
38:BC:106:GLY:O	38:BC:107:TRP:HB3	2.18	0.42
39:BD:63:ARG:HG2	39:BD:63:ARG:HH11	1.82	0.42
39:BD:142:VAL:HA	39:BD:194:GLY:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:268:ARG:NH1	39:BD:269:PHE:CE1	2.83	0.42
42:BG:51:ARG:HH11	42:BG:53:LEU:HD21	1.85	0.42
46:BN:27:ALA:O	46:BN:28:THR:C	2.57	0.42
46:BN:33:LEU:N	46:BN:33:LEU:CD1	2.81	0.42
47:BO:8:LEU:O	47:BO:8:LEU:HD22	2.19	0.42
48:BP:96:THR:H	48:BP:99:LEU:CD2	2.32	0.42
50:BR:32:GLY:O	50:BR:115:GLU:HA	2.20	0.42
50:BR:63:ARG:NH1	50:BR:80:PHE:CD2	2.88	0.42
52:BT:8:LYS:C	52:BT:10:VAL:H	2.24	0.42
52:BT:121:ILE:C	52:BT:123:GLN:N	2.73	0.42
53:BU:57:PHE:O	53:BU:59:ARG:N	2.53	0.42
55:BW:88:ARG:HD2	55:BW:88:ARG:HA	1.88	0.42
57:BY:67:LEU:HD23	57:BY:68:HIS:N	2.34	0.42
58:BZ:14:LYS:HB2	58:BZ:17:ALA:HB3	2.02	0.42
58:BZ:30:ASN:ND2	58:BZ:32:HIS:HB2	2.35	0.42
1:CA:22:G:O2'	1:CA:913:A:N1	2.39	0.42
1:CA:346:G:N3	1:CA:346:G:C2'	2.83	0.42
1:CA:355:C:C4'	1:CA:388:G:HO2'	2.33	0.42
1:CA:586:C:O3'	8:CH:89:PRO:HB2	2.19	0.42
1:CA:1001:A:N3	1:CA:1001(A):G:O6	2.52	0.42
1:CA:1139:G:H5'	1:CA:1140:C:OP1	2.20	0.42
1:CA:1217:C:OP1	14:CN:9:LYS:HE3	2.20	0.42
1:CA:1433:A:C5	1:CA:1434:A:C5	3.08	0.42
2:CB:10:LEU:HD23	2:CB:10:LEU:HA	1.88	0.42
3:CC:83:ARG:HG3	3:CC:87:LEU:HD11	2.02	0.42
4:CD:13:ARG:HB3	4:CD:38:TYR:O	2.20	0.42
4:CD:56:VAL:HG12	4:CD:202:LEU:HD13	2.02	0.42
7:CG:87:VAL:HG21	7:CG:154:TYR:HB2	2.02	0.42
7:CG:112:PRO:HG2	7:CG:112:PRO:O	2.20	0.42
7:CG:150:ALA:HB2	11:CK:50:TYR:CE2	2.54	0.42
8:CH:85:ARG:CZ	8:CH:87:SER:O	2.68	0.42
8:CH:103:VAL:CG1	8:CH:108:GLY:HA3	2.50	0.42
10:CJ:47:PHE:CZ	14:CN:37:PHE:CE2	3.05	0.42
11:CK:12:ARG:HE	11:CK:14:VAL:HG13	1.84	0.42
15:CO:64:ARG:HG3	15:CO:64:ARG:NH1	2.32	0.42
16:CP:27:LYS:O	16:CP:30:GLY:N	2.43	0.42
16:CP:35:LYS:HE2	16:CP:37:GLY:N	2.35	0.42
16:CP:50:LYS:O	16:CP:51:VAL:CG2	2.68	0.42
19:CS:61:TYR:HD2	19:CS:62:ILE:H	1.67	0.42
20:CT:29:LYS:O	20:CT:33:ILE:HG13	2.20	0.42
20:CT:38:LYS:C	20:CT:40:ALA:N	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:64:ASP:O	20:CT:67:ALA:N	2.53	0.42
25:CZ:126:VAL:HG22	63:CZ:502:KIR:H471	2.02	0.42
32:D6:32:ASN:CG	32:D6:33:LYS:N	2.73	0.42
32:D6:33:LYS:HA	32:D6:33:LYS:HE2	2.01	0.42
34:D8:7:HIS:O	34:D8:9:GLY:N	2.51	0.42
35:D9:7:VAL:HG13	35:D9:34:GLN:HG2	2.00	0.42
36:DA:338:G:O2'	36:DA:339:U:H5'	2.19	0.42
36:DA:483:A:H8	36:DA:483:A:O5'	2.03	0.42
36:DA:529:A:H4'	36:DA:530:G:O5'	2.20	0.42
36:DA:530:G:C6	36:DA:2022:U:H5''	2.55	0.42
36:DA:539:G:H2'	36:DA:540:C:H6	1.83	0.42
36:DA:606:U:H5'	36:DA:658:C:H1'	2.02	0.42
36:DA:723:G:C6	36:DA:724:U:C4	3.08	0.42
36:DA:952:G:C4	36:DA:966:G:N2	2.87	0.42
36:DA:1033:U:H5''	36:DA:1034:G:OP1	2.19	0.42
36:DA:1047:G:H21	36:DA:1110:G:H2'	1.78	0.42
36:DA:1249:U:H2'	36:DA:1250:G:C8	2.55	0.42
36:DA:1316:U:H5'	36:DA:1392:A:H1'	2.02	0.42
36:DA:1403:C:H5''	36:DA:1471:A:O4'	2.20	0.42
36:DA:1407:C:H3'	36:DA:1408:C:C5	2.54	0.42
36:DA:1517:G:H8	36:DA:1517:G:H5'	1.84	0.42
36:DA:1528:A:HO2'	36:DA:1528(A):A:P	2.42	0.42
36:DA:1541:G:C1'	36:DA:1542:A:C4	2.94	0.42
36:DA:1638:C:H5''	36:DA:2710:C:H1'	2.02	0.42
36:DA:1654:A:P	50:DR:3:HIS:HB2	2.59	0.42
36:DA:1672:C:C4	36:DA:1673:U:C5	3.07	0.42
36:DA:1754:C:N3	36:DA:2716:U:O2'	2.43	0.42
36:DA:1940:U:C4	36:DA:1964:G:H4'	2.55	0.42
36:DA:2101:G:C6	36:DA:2102:U:C5	3.08	0.42
36:DA:2123:G:N1	36:DA:2175:C:N3	2.67	0.42
36:DA:2197:U:O2'	36:DA:2198:A:H2'	2.19	0.42
36:DA:2257:U:C4	36:DA:2258:C:N4	2.88	0.42
36:DA:2640:G:H8	36:DA:2640:G:O5'	2.03	0.42
36:DA:2787:C:O2	36:DA:2787:C:C2'	2.67	0.42
36:DA:2850:A:OP2	36:DA:2866:U:O4	2.38	0.42
38:DC:6:ARG:NH1	38:DC:34:THR:HG21	2.34	0.42
38:DC:148:ASN:O	38:DC:151:GLU:N	2.51	0.42
38:DC:183:GLU:O	38:DC:187:ASP:HB2	2.19	0.42
39:DD:158:ALA:O	39:DD:161:THR:HG23	2.20	0.42
39:DD:267:SER:O	39:DD:268:ARG:HB2	2.19	0.42
40:DE:24:THR:HB	40:DE:184:VAL:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:167:VAL:CG1	40:DE:170:LEU:HD11	2.29	0.42
41:DF:155:LEU:CD1	41:DF:176:LEU:HD22	2.47	0.42
42:DG:16:ARG:HH21	42:DG:33:ARG:HB3	1.84	0.42
43:DH:37:VAL:CG2	43:DH:72:ILE:HD11	2.50	0.42
43:DH:130:ARG:CZ	43:DH:130:ARG:CB	2.97	0.42
49:DQ:54:MET:O	49:DQ:55:VAL:C	2.58	0.42
50:DR:110:PRO:C	50:DR:111:LEU:HD12	2.40	0.42
52:DT:19:LEU:CD1	52:DT:78:LEU:HD22	2.46	0.42
52:DT:28:VAL:O	52:DT:29:ARG:HB2	2.19	0.42
53:DU:17:ILE:HD12	53:DU:17:ILE:N	2.35	0.42
58:DZ:3:TYR:N	58:DZ:3:TYR:CD1	2.88	0.42
58:DZ:165:VAL:CG1	58:DZ:166:SER:H	2.26	0.42
1:AA:116:A:O2'	1:AA:117:G:H5'	2.20	0.42
1:AA:127:G:H2'	1:AA:128:G:C8	2.55	0.42
1:AA:520:A:OP2	12:AL:51:ALA:HB1	2.20	0.42
1:AA:885:G:C2	1:AA:886:G:C8	3.07	0.42
1:AA:921:U:H2'	1:AA:922:G:O4'	2.19	0.42
1:AA:1237:C:O4'	1:AA:1334:G:N2	2.53	0.42
1:AA:1260:C:OP1	1:AA:1284:C:H4'	2.20	0.42
1:AA:1465:C:H2'	1:AA:1466:C:O4'	2.19	0.42
2:AB:17:PHE:HD1	2:AB:44:LEU:HD21	1.84	0.42
2:AB:157:ARG:HB2	2:AB:157:ARG:NH1	2.35	0.42
2:AB:166:ASP:HB3	2:AB:169:LYS:CB	2.44	0.42
2:AB:168:THR:HG23	2:AB:192:SER:HA	2.01	0.42
4:AD:163:GLU:C	4:AD:165:MET:H	2.23	0.42
6:AF:10:LEU:O	6:AF:12:PRO:N	2.53	0.42
7:AG:35:LYS:O	7:AG:37:ASN:N	2.53	0.42
7:AG:104:LEU:CD2	7:AG:104:LEU:H	2.33	0.42
9:AI:55:ALA:C	9:AI:57:GLY:N	2.74	0.42
9:AI:110:GLU:OE2	9:AI:113:LYS:NZ	2.43	0.42
10:AJ:35:SER:O	10:AJ:36:GLY:C	2.56	0.42
10:AJ:38:ILE:O	10:AJ:38:ILE:HG13	2.19	0.42
13:AM:56:LEU:HD13	13:AM:57:ARG:N	2.35	0.42
14:AN:22:THR:HB	14:AN:33:VAL:CG2	2.34	0.42
14:AN:47:LEU:HD23	14:AN:47:LEU:HA	1.80	0.42
17:AQ:64:PRO:HA	17:AQ:70:ARG:HG3	2.01	0.42
18:AR:53:ARG:HG3	18:AR:63:GLN:CG	2.50	0.42
18:AR:53:ARG:N	18:AR:63:GLN:NE2	2.68	0.42
22:AW:76:A:C2	36:BA:2422:A:C6	3.07	0.42
25:AZ:185:ASN:HA	25:AZ:186:PRO:HD2	1.93	0.42
25:AZ:354:GLN:O	25:AZ:354:GLN:CG	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B0:10:THR:CG2	26:B0:11:ARG:N	2.83	0.42
26:B0:25:ARG:C	26:B0:26:TYR:CD1	2.93	0.42
28:B2:22:GLU:HG2	28:B2:64:LEU:HD21	2.02	0.42
28:B2:54:LYS:NZ	36:BA:60:G:H5''	2.35	0.42
28:B2:68:ARG:HH22	28:B2:72:ALA:CB	2.31	0.42
30:B4:31:ILE:HG22	30:B4:31:ILE:O	2.20	0.42
30:B4:46:GLN:CG	30:B4:47:GLN:H	2.32	0.42
31:B5:6:VAL:H	36:BA:2056:G:H21	1.66	0.42
31:B5:57:VAL:O	31:B5:58:LEU:HD12	2.20	0.42
32:B6:19:ARG:CG	32:B6:20:ASN:N	2.69	0.42
34:B8:4:MET:CE	34:B8:61:LEU:CD2	2.97	0.42
36:BA:16:G:O2'	36:BA:17:G:H5'	2.20	0.42
36:BA:106:C:O4'	57:BY:2:ARG:HG3	2.20	0.42
36:BA:217:G:H2'	36:BA:218:A:C8	2.54	0.42
36:BA:327:G:C2	36:BA:328:U:C2	3.08	0.42
36:BA:445:C:O2'	36:BA:446:G:O4'	2.36	0.42
36:BA:539:G:O2'	36:BA:540:C:H5'	2.20	0.42
36:BA:669:G:H5''	36:BA:670:A:OP2	2.19	0.42
36:BA:705:A:H1'	39:BD:9:TYR:CE1	2.55	0.42
36:BA:754:C:H2'	36:BA:755:C:C5	2.54	0.42
36:BA:805:G:H21	36:BA:829:A:P	2.43	0.42
36:BA:909:A:O2'	36:BA:910:A:H5'	2.19	0.42
36:BA:1065:U:H4'	36:BA:1065:U:OP1	2.20	0.42
36:BA:1253:A:O2'	36:BA:1254:A:H5'	2.20	0.42
36:BA:1750:G:HO2'	36:BA:1751:C:H5'	1.83	0.42
36:BA:2055:C:H2'	36:BA:2504:U:C4'	2.50	0.42
36:BA:2292:C:N4	36:BA:2340:G:H1	2.17	0.42
36:BA:2414:G:C2	36:BA:2415:G:N7	2.87	0.42
36:BA:2453:A:C2	36:BA:2504:U:O2	2.73	0.42
36:BA:2567:G:H2'	36:BA:2568:C:H6	1.84	0.42
36:BA:2640:G:H8	36:BA:2640:G:O5'	2.03	0.42
36:BA:2768:C:H5''	46:BN:83:LYS:HE3	2.02	0.42
37:BB:17:C:O2'	37:BB:18:G:H5'	2.19	0.42
38:BC:115:ALA:O	38:BC:149:ILE:HD13	2.20	0.42
38:BC:115:ALA:O	38:BC:116:THR:HG23	2.19	0.42
39:BD:227:ASN:O	39:BD:228:PRO:C	2.58	0.42
39:BD:242:ARG:HD2	39:BD:242:ARG:N	2.34	0.42
40:BE:167:VAL:HG12	40:BE:189:PRO:HD2	2.00	0.42
40:BE:201:THR:OG1	40:BE:202:LYS:N	2.53	0.42
41:BF:10:PRO:HD2	41:BF:13:SER:O	2.19	0.42
41:BF:40:GLN:NE2	41:BF:184:TYR:CB	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:139:PHE:CZ	41:BF:143:ALA:HB2	2.55	0.42
42:BG:91:ARG:HD2	42:BG:91:ARG:O	2.18	0.42
43:BH:105:LEU:HD23	43:BH:105:LEU:N	2.32	0.42
43:BH:149:ARG:O	43:BH:149:ARG:HG2	2.19	0.42
43:BH:164:TYR:HB3	43:BH:165:ALA:H	1.54	0.42
46:BN:54:VAL:O	46:BN:122:VAL:HG13	2.20	0.42
47:BO:104:ARG:HH21	52:BT:33:LYS:HE3	1.84	0.42
48:BP:50:ARG:HG3	48:BP:51:PHE:CD1	2.55	0.42
48:BP:71:VAL:HG13	48:BP:72:PRO:CD	2.50	0.42
49:BQ:24:GLY:O	49:BQ:26:TYR:O	2.38	0.42
50:BR:18:LEU:O	50:BR:18:LEU:HD22	2.20	0.42
52:BT:88:ILE:HG22	52:BT:89:VAL:CG2	2.43	0.42
53:BU:10:ARG:HA	53:BU:13:LYS:CG	2.48	0.42
56:BX:49:VAL:HB	56:BX:50:LYS:H	1.63	0.42
56:BX:60:ARG:HG3	56:BX:75:ASP:CG	2.37	0.42
57:BY:8:LYS:CE	57:BY:72:VAL:HG23	2.50	0.42
58:BZ:3:TYR:CD1	58:BZ:3:TYR:N	2.87	0.42
58:BZ:65:GLN:H	58:BZ:65:GLN:HG3	1.73	0.42
58:BZ:163:LEU:HG	58:BZ:164:ALA:N	2.35	0.42
1:CA:72:C:O2'	1:CA:73:G:H5'	2.20	0.42
1:CA:137:C:O2	1:CA:137:C:C2'	2.66	0.42
1:CA:614:A:O2'	1:CA:615:C:C5'	2.63	0.42
1:CA:689:C:C2'	1:CA:690:G:H5'	2.49	0.42
1:CA:933:G:C6	1:CA:1385:G:N1	2.88	0.42
1:CA:1054:C:C2'	1:CA:1055:A:H5''	2.49	0.42
1:CA:1065:U:O4	1:CA:1189:C:H2'	2.20	0.42
1:CA:1073:U:O2'	2:CB:104:ASN:ND2	2.53	0.42
1:CA:1165:C:H42	1:CA:1172:C:N4	2.18	0.42
1:CA:1223:C:H3'	1:CA:1224:G:C5'	2.50	0.42
1:CA:1360:A:H2'	1:CA:1361:G:O4'	2.20	0.42
2:CB:57:PHE:CZ	2:CB:199:TYR:HE1	2.38	0.42
2:CB:165:VAL:O	2:CB:187:LEU:O	2.37	0.42
2:CB:217:ARG:HA	2:CB:220:ASP:OD2	2.19	0.42
3:CC:63:ASN:O	3:CC:64:VAL:CG2	2.68	0.42
4:CD:19:LEU:HD23	4:CD:67:ILE:HG13	2.02	0.42
4:CD:138:TYR:CE2	4:CD:139:ARG:O	2.72	0.42
4:CD:159:ARG:O	4:CD:160:GLN:C	2.58	0.42
5:CE:38:GLN:OE1	5:CE:38:GLN:HA	2.20	0.42
10:CJ:12:ASP:OD1	10:CJ:15:THR:HG23	2.20	0.42
10:CJ:71:LEU:HD12	10:CJ:71:LEU:C	2.39	0.42
13:CM:55:ARG:HA	13:CM:58:GLU:CG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:115:LYS:O	13:CM:116:THR:C	2.58	0.42
16:CP:11:SER:HB2	16:CP:14:ASN:HB3	2.02	0.42
19:CS:43:GLU:O	19:CS:45:VAL:N	2.52	0.42
20:CT:50:GLU:CG	20:CT:100:ILE:HG12	2.42	0.42
20:CT:81:LYS:C	20:CT:83:ARG:N	2.72	0.42
20:CT:100:ILE:HD12	20:CT:100:ILE:N	2.35	0.42
26:D0:43:THR:HG21	36:DA:2332:U:H5'	2.01	0.42
27:D1:3:LYS:HD3	36:DA:1364:G:C8	2.55	0.42
32:D6:53:LYS:O	32:D6:54:ILE:HG22	2.20	0.42
34:D8:57:ARG:C	34:D8:59:LYS:N	2.73	0.42
35:D9:9:ARG:NH2	35:D9:12:ASP:O	2.53	0.42
36:DA:226:G:O2'	36:DA:227:A:C8	2.66	0.42
36:DA:271(J):C:O2	36:DA:271(J):C:C2'	2.68	0.42
36:DA:271(S):G:C2	36:DA:271(T):C:C2	3.07	0.42
36:DA:329:G:H22	57:DY:19:LYS:CE	2.21	0.42
36:DA:460:A:H3'	36:DA:461:C:C6	2.55	0.42
36:DA:910:A:H2'	36:DA:911:A:C8	2.53	0.42
36:DA:996:A:O4'	53:DU:92:ARG:NE	2.53	0.42
36:DA:1098:A:H2'	36:DA:1099:G:O4'	2.20	0.42
36:DA:1372:U:O2'	36:DA:1373:A:H5'	2.19	0.42
36:DA:1389:G:C5'	36:DA:1526:G:OP1	2.68	0.42
36:DA:1492:G:N3	36:DA:1499:C:O2	2.52	0.42
36:DA:1579:A:H2'	36:DA:1580:A:N9	2.35	0.42
36:DA:1790:C:H2'	36:DA:1791:A:C8	2.55	0.42
36:DA:2414:G:N3	36:DA:2414:G:H2'	2.34	0.42
36:DA:2465:C:O2'	36:DA:2466:C:H5'	2.20	0.42
36:DA:2585:U:O2	36:DA:2585:U:O4'	2.36	0.42
36:DA:2628:C:H1'	36:DA:2781:A:H2'	2.02	0.42
36:DA:2842:G:C6	36:DA:2876:G:N1	2.88	0.42
37:DB:14:U:O2'	37:DB:15:A:OP1	2.35	0.42
37:DB:73:A:C6	37:DB:74:U:C2	3.08	0.42
37:DB:102:A:H2'	37:DB:103:G:O4'	2.20	0.42
39:DD:227:ASN:O	39:DD:228:PRO:C	2.58	0.42
40:DE:11:MET:CB	40:DE:23:VAL:O	2.67	0.42
40:DE:52:LEU:HB3	40:DE:76:ARG:N	2.34	0.42
40:DE:68:ALA:C	40:DE:70:ALA:H	2.22	0.42
40:DE:126:PRO:C	40:DE:128:SER:N	2.73	0.42
40:DE:142:GLY:C	40:DE:143:ASN:ND2	2.72	0.42
40:DE:144:ARG:O	40:DE:146:THR:N	2.53	0.42
41:DF:168:ARG:CG	41:DF:169:ASN:N	2.83	0.42
46:DN:10:GLU:HG3	46:DN:11:PRO:CD	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:124:LYS:HD3	48:DP:143:GLY:HA3	2.01	0.42
49:DQ:5:ARG:HE	49:DQ:5:ARG:HB2	1.61	0.42
49:DQ:52:VAL:HG12	49:DQ:53:ALA:N	2.35	0.42
49:DQ:110:THR:OG1	49:DQ:112:GLU:HB3	2.20	0.42
49:DQ:141:GLN:O	58:DZ:53:ILE:CB	2.67	0.42
50:DR:83:ILE:CG2	50:DR:87:TYR:HE2	2.32	0.42
52:DT:117:ASP:OD1	52:DT:119:LYS:HB3	2.20	0.42
53:DU:109:LEU:HA	53:DU:112:ARG:HB2	2.02	0.42
54:DV:21:ARG:HB3	54:DV:91:TYR:CD1	2.55	0.42
56:DX:8:ILE:HD11	56:DX:43:VAL:CG2	2.47	0.42
56:DX:11:PRO:HG2	56:DX:13:LEU:HD21	2.01	0.42
58:DZ:27:VAL:O	58:DZ:88:PHE:N	2.51	0.42
58:DZ:108:PRO:HG2	58:DZ:111:VAL:HG23	2.02	0.42
58:DZ:150:LEU:N	58:DZ:150:LEU:CD2	2.83	0.42
1:AA:220:G:H2'	1:AA:220:G:N3	2.35	0.41
1:AA:247:G:C6	1:AA:278:G:C2	3.08	0.41
1:AA:314:C:H42	1:AA:315:A:N6	2.18	0.41
1:AA:398:C:H2'	1:AA:399:G:H8	1.85	0.41
1:AA:849:C:O2'	1:AA:850:U:H5'	2.20	0.41
1:AA:922:G:H3'	1:AA:923:A:C8	2.55	0.41
1:AA:949:A:N7	1:AA:950:U:C5	2.88	0.41
1:AA:1064:G:H21	1:AA:1190:G:C2'	2.33	0.41
1:AA:1065:U:O5'	1:AA:1190:G:N2	2.52	0.41
1:AA:1285:A:O2'	1:AA:1286:A:OP2	2.35	0.41
1:AA:1338:G:C6	1:AA:1339:A:N6	2.88	0.41
2:AB:75:LYS:C	2:AB:77:ALA:N	2.73	0.41
3:AC:181:ASN:HD21	3:AC:204:LEU:CD1	2.30	0.41
4:AD:26:CYS:HA	4:AD:31:CYS:HA	2.01	0.41
4:AD:138:TYR:CD2	4:AD:139:ARG:N	2.85	0.41
4:AD:206:PHE:O	4:AD:206:PHE:CG	2.72	0.41
7:AG:22:LEU:HD22	7:AG:62:PHE:HE2	1.85	0.41
7:AG:153:HIS:CE1	11:AK:58:PRO:HD2	2.54	0.41
8:AH:4:ASP:OD2	8:AH:85:ARG:HD3	2.19	0.41
11:AK:54:ARG:O	11:AK:55:LYS:C	2.58	0.41
12:AL:62:SER:C	12:AL:64:TYR:H	2.23	0.41
15:AO:34:LEU:HG	15:AO:35:ARG:N	2.35	0.41
15:AO:58:MET:O	15:AO:62:GLN:HB2	2.20	0.41
18:AR:53:ARG:C	18:AR:55:ARG:N	2.64	0.41
20:AT:59:ALA:O	20:AT:60:GLU:C	2.57	0.41
22:AV:5:G:H2'	22:AV:6:G:O4'	2.19	0.41
25:AZ:115:GLN:HE21	25:AZ:115:GLN:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:34:THR:CG2	27:B1:35:THR:N	2.82	0.41
28:B2:35:LEU:HD13	28:B2:35:LEU:C	2.40	0.41
30:B4:14:ILE:N	30:B4:14:ILE:CD1	2.81	0.41
30:B4:33:VAL:HG13	30:B4:34:GLU:N	2.36	0.41
34:B8:45:GLY:O	34:B8:46:ARG:C	2.59	0.41
34:B8:55:ALA:O	34:B8:56:GLU:C	2.58	0.41
36:BA:321:G:OP2	41:BF:135:LYS:HA	2.20	0.41
36:BA:486:C:O2'	55:BW:56:ALA:HB1	2.20	0.41
36:BA:491:G:H2'	36:BA:492:A:O4'	2.20	0.41
36:BA:572:A:H3'	36:BA:573:G:O4'	2.20	0.41
36:BA:672:C:O2'	36:BA:673:C:H5''	2.20	0.41
36:BA:753:C:H2'	36:BA:754:C:H6	1.84	0.41
36:BA:861:A:H2	37:BB:79:C:H1'	1.85	0.41
36:BA:1259:G:H2'	36:BA:1260:G:C8	2.53	0.41
36:BA:1271:G:N2	36:BA:1617:C:O4'	2.52	0.41
36:BA:1346:G:C2	36:BA:1601:G:C2	3.08	0.41
36:BA:1487:G:C4	36:BA:1488:G:C8	3.08	0.41
36:BA:1528:A:HO2'	36:BA:1528(A):A:C5'	2.33	0.41
36:BA:1560:G:N3	36:BA:1560:G:H2'	2.35	0.41
36:BA:1653:G:O2'	50:BR:3:HIS:CB	2.68	0.41
36:BA:1747(A):G:H2'	36:BA:1748:G:C5'	2.48	0.41
36:BA:1805:U:H5''	39:BD:250:TRP:CE2	2.54	0.41
36:BA:1813:G:H1'	39:BD:50:THR:OG1	2.20	0.41
36:BA:1815:A:H8	36:BA:1815:A:OP1	2.02	0.41
36:BA:2071:A:H2	36:BA:2441:C:C2	2.38	0.41
36:BA:2161:C:O2'	36:BA:2162:G:H5'	2.20	0.41
36:BA:2530:A:C2'	36:BA:2531:A:H5''	2.49	0.41
36:BA:2683:C:H42	36:BA:2727:G:H21	1.67	0.41
36:BA:2683:C:H42	36:BA:2727:G:N2	2.18	0.41
36:BA:2695:C:H2'	36:BA:2696:U:C6	2.55	0.41
36:BA:2773:C:H5''	40:BE:164:ARG:CD	2.49	0.41
37:BB:85:G:C4	37:BB:93:G:C2	3.08	0.41
38:BC:21:THR:N	38:BC:24:GLU:HB2	2.35	0.41
39:BD:89:SER:HB2	39:BD:159:ALA:HB2	2.01	0.41
39:BD:227:ASN:O	39:BD:230:ASP:N	2.53	0.41
39:BD:244:ARG:HG2	39:BD:245:PRO:CB	2.50	0.41
39:BD:264:LYS:O	39:BD:267:SER:OG	2.36	0.41
39:BD:270:ILE:H	39:BD:270:ILE:HG13	1.74	0.41
40:BE:93:VAL:CG1	40:BE:175:VAL:HG23	2.49	0.41
40:BE:175:VAL:O	40:BE:175:VAL:HG13	2.20	0.41
40:BE:181:LEU:N	40:BE:181:LEU:CD1	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:11:VAL:C	41:BF:13:SER:N	2.72	0.41
43:BH:40:GLU:O	43:BH:41:MET:CB	2.67	0.41
47:BO:90:GLN:O	47:BO:92:GLU:N	2.52	0.41
48:BP:23:PRO:C	48:BP:33:ARG:CZ	2.88	0.41
50:BR:3:HIS:HB3	50:BR:4:LEU:H	1.56	0.41
50:BR:94:TYR:CD2	50:BR:94:TYR:N	2.85	0.41
51:BS:49:VAL:CG1	51:BS:50:SER:H	2.02	0.41
54:BV:71:LEU:CD2	54:BV:84:LYS:HE2	2.50	0.41
57:BY:56:PRO:O	57:BY:57:GLN:O	2.38	0.41
58:BZ:39:VAL:HG23	58:BZ:44:PHE:HB2	2.02	0.41
58:BZ:109:ALA:C	58:BZ:145:GLU:OE1	2.58	0.41
1:CA:163:C:H2'	1:CA:164:U:O4'	2.19	0.41
1:CA:189(G):G:H8	1:CA:189(G):G:OP1	2.02	0.41
1:CA:316:G:N1	1:CA:338:A:C6	2.88	0.41
1:CA:556:C:C2'	1:CA:557:G:H5'	2.49	0.41
1:CA:682:G:N1	1:CA:683:G:C5	2.88	0.41
1:CA:684:A:H2'	1:CA:685:G:C8	2.54	0.41
1:CA:690:G:O2'	1:CA:691:G:H5'	2.20	0.41
1:CA:782:A:C2'	1:CA:783:C:H5'	2.50	0.41
1:CA:830:G:H2'	1:CA:831:U:O4'	2.20	0.41
1:CA:859:A:O2'	1:CA:860:A:H5'	2.20	0.41
1:CA:922:G:H3'	1:CA:923:A:C8	2.55	0.41
1:CA:1280:A:O2'	1:CA:1281:U:P	2.78	0.41
1:CA:1285:A:O2'	1:CA:1286:A:OP2	2.36	0.41
1:CA:1314:C:H41	19:CS:4:SER:HB2	1.85	0.41
1:CA:1392:G:N2	1:CA:1502:A:C8	2.88	0.41
1:CA:1484:C:O2'	36:DA:1961:C:H5'	2.20	0.41
3:CC:110:ASN:O	3:CC:141:VAL:HG22	2.19	0.41
5:CE:127:ASN:HA	5:CE:128:PRO:HD3	1.79	0.41
8:CH:92:ARG:CB	8:CH:94:TYR:HE1	2.33	0.41
9:CI:42:ARG:O	9:CI:45:ALA:HB3	2.19	0.41
9:CI:99:LEU:N	9:CI:99:LEU:CD2	2.83	0.41
17:CQ:29:HIS:CE1	17:CQ:32:TYR:N	2.88	0.41
18:CR:43:PHE:CD1	18:CR:66:LEU:HD11	2.55	0.41
18:CR:47:THR:CB	18:CR:49:LYS:HZ2	2.32	0.41
22:CW:2:C:H42	22:CW:72:C:H42	1.66	0.41
22:CW:55:U:O2'	22:CW:56:C:C6	2.70	0.41
28:D2:12:GLU:O	28:D2:16:LEU:HG	2.19	0.41
32:D6:14:THR:O	32:D6:49:HIS:CG	2.73	0.41
33:D7:12:ARG:HH21	33:D7:44:PRO:CB	2.29	0.41
36:DA:296:C:N4	36:DA:343:C:N4	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:426:C:O2	36:DA:426:C:H2'	2.19	0.41
36:DA:999:U:O2	36:DA:1157:G:N2	2.53	0.41
36:DA:1062:G:N1	36:DA:1063:G:H1'	2.34	0.41
36:DA:1093:G:H4'	43:DH:170:ARG:NH1	2.34	0.41
36:DA:1263:U:C4	36:DA:1264:G:C6	3.08	0.41
36:DA:1475:G:H22	36:DA:1517:G:H1'	1.84	0.41
36:DA:1717:G:H2'	36:DA:1718:G:C5'	2.50	0.41
36:DA:2134:A:C2	36:DA:2135:A:N7	2.88	0.41
36:DA:2259:G:N2	36:DA:2282:G:C2	2.88	0.41
36:DA:2512:C:O5'	36:DA:2512:C:H6	2.02	0.41
36:DA:2546:U:O4'	36:DA:2565:A:C2	2.72	0.41
36:DA:2598:A:O5'	36:DA:2598:A:H8	2.03	0.41
36:DA:2682:U:H1'	40:DE:12:THR:HA	2.02	0.41
36:DA:2693:A:HO2'	36:DA:2694:G:H5'	1.85	0.41
38:DC:18:LYS:HE3	38:DC:20:TYR:CD2	2.55	0.41
39:DD:266:SER:O	39:DD:267:SER:O	2.37	0.41
40:DE:132:HIS:CD2	40:DE:135:HIS:NE2	2.88	0.41
41:DF:105:VAL:HG12	41:DF:105:VAL:O	2.20	0.41
43:DH:35:VAL:HA	43:DH:36:PRO:HD2	1.97	0.41
43:DH:61:HIS:O	43:DH:64:LEU:N	2.49	0.41
43:DH:98:LEU:HB2	43:DH:125:VAL:CG2	2.49	0.41
46:DN:47:ALA:C	46:DN:49:GLY:N	2.73	0.41
46:DN:90:MET:O	46:DN:93:THR:O	2.38	0.41
46:DN:107:LEU:HB3	46:DN:108:PRO:CD	2.48	0.41
47:DO:8:LEU:O	47:DO:9:GLU:O	2.38	0.41
48:DP:59:LEU:CA	48:DP:61:ARG:NE	2.65	0.41
48:DP:101:VAL:HG22	48:DP:102:ARG:N	2.35	0.41
51:DS:23:ARG:HB3	51:DS:24:LEU:HD22	2.02	0.41
51:DS:89:ARG:CG	51:DS:92:TYR:HB3	2.50	0.41
54:DV:13:ARG:HH11	54:DV:13:ARG:CG	2.33	0.41
55:DW:70:TYR:CZ	55:DW:72:LYS:HG2	2.55	0.41
56:DX:57:LEU:O	56:DX:57:LEU:HD13	2.20	0.41
57:DY:15:VAL:CG1	57:DY:20:TYR:O	2.68	0.41
58:DZ:109:ALA:CB	58:DZ:144:LEU:O	2.67	0.41
1:AA:319:G:H4'	1:AA:1468:A:C5'	2.49	0.41
1:AA:458:C:C4	1:AA:474:G:N2	2.88	0.41
1:AA:657:G:N2	1:AA:749:C:N3	2.63	0.41
1:AA:792:A:O2'	1:AA:794:A:C8	2.61	0.41
1:AA:815:A:C2	1:AA:1529:G:C4	3.08	0.41
1:AA:976:G:OP1	14:AN:32:SER:N	2.54	0.41
1:AA:994:A:C2	1:AA:995:C:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1005:A:H8	1:AA:1005:A:O5'	2.03	0.41
1:AA:1030(A):G:C1'	1:AA:1031:G:H22	2.33	0.41
1:AA:1148:U:H2'	1:AA:1149:C:C5'	2.51	0.41
1:AA:1291:G:OP1	7:AG:37:ASN:HB3	2.20	0.41
1:AA:1487:G:C2'	1:AA:1488:G:C5'	2.98	0.41
2:AB:219:VAL:HA	2:AB:222:ILE:CG1	2.50	0.41
3:AC:63:ASN:O	3:AC:64:VAL:CG2	2.68	0.41
3:AC:113:ALA:N	3:AC:114:PRO:CD	2.83	0.41
3:AC:140:ARG:HG3	3:AC:140:ARG:NH1	2.35	0.41
4:AD:189:PRO:CB	4:AD:194:LEU:HD21	2.38	0.41
5:AE:64:ARG:N	5:AE:66:MET:CE	2.83	0.41
5:AE:77:PRO:O	5:AE:78:HIS:HB3	2.20	0.41
9:AI:55:ALA:C	9:AI:57:GLY:H	2.23	0.41
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.83	0.41
12:AL:8:ASN:O	12:AL:12:ARG:HD3	2.20	0.41
12:AL:23:LYS:O	12:AL:24:VAL:CG2	2.68	0.41
13:AM:35:GLU:CG	13:AM:36:LYS:H	2.33	0.41
13:AM:83:ASP:OD1	19:AS:74:PHE:HE1	2.02	0.41
15:AO:33:THR:HG23	15:AO:63:ARG:NH1	2.35	0.41
17:AQ:63:ARG:HG2	17:AQ:64:PRO:HD2	2.02	0.41
20:AT:65:LYS:O	20:AT:68:LYS:HB2	2.20	0.41
24:AY:55:PSU:N1	24:AY:58:A:OP2	2.53	0.41
25:AZ:168:VAL:HA	25:AZ:169:PRO:HD3	1.84	0.41
25:AZ:258:LEU:HD12	25:AZ:258:LEU:N	2.35	0.41
25:AZ:385:ARG:HD3	63:AZ:502:KIR:H451	2.02	0.41
26:B0:7:LEU:HD21	49:BQ:81:VAL:CG2	2.50	0.41
26:B0:37:LEU:HG	26:B0:59:LEU:C	2.41	0.41
27:B1:24:ALA:O	27:B1:25:LYS:C	2.58	0.41
34:B8:62:LEU:N	34:B8:63:PRO:HD2	2.35	0.41
35:B9:6:SER:HB2	36:BA:2466:C:H5''	2.02	0.41
35:B9:25:VAL:HB	35:B9:34:GLN:CB	2.49	0.41
36:BA:128:C:C4	36:BA:129:C:C5	3.07	0.41
36:BA:200:U:N3	36:BA:248:G:N3	2.68	0.41
36:BA:483:A:N7	36:BA:484:C:C2	2.88	0.41
36:BA:1205:U:H4'	36:BA:1206:G:OP2	2.20	0.41
36:BA:1445:A:OP2	36:BA:1445(A):C:H5	2.03	0.41
36:BA:1548:C:H2'	36:BA:1549:C:H6	1.86	0.41
36:BA:1579:A:H2'	36:BA:1580:A:N9	2.34	0.41
36:BA:1669:A:OP2	36:BA:2550:G:OP1	2.38	0.41
36:BA:1783:A:C6	36:BA:2587:A:C2	3.08	0.41
36:BA:1790:C:H2'	36:BA:1791:A:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1967:C:C4	36:BA:1968:G:C5	3.09	0.41
36:BA:2234:G:O2'	36:BA:2235:G:H5'	2.19	0.41
36:BA:2285:C:H42	36:BA:2383:G:H1	1.68	0.41
36:BA:2413:G:H2'	36:BA:2414:G:C8	2.50	0.41
36:BA:2478:A:O2'	36:BA:2536:G:N2	2.52	0.41
36:BA:2740:A:H2'	36:BA:2741:A:O4'	2.20	0.41
38:BC:75:LEU:HB2	38:BC:93:TYR:HB2	2.02	0.41
39:BD:8:PRO:HB3	39:BD:14:ARG:HB3	1.98	0.41
39:BD:24:ILE:HG12	39:BD:25:THR:N	2.35	0.41
39:BD:46:GLN:N	39:BD:46:GLN:OE1	2.53	0.41
39:BD:73:VAL:HA	39:BD:119:ALA:O	2.20	0.41
39:BD:112:GLN:N	39:BD:115:GLN:NE2	2.46	0.41
39:BD:164:GLN:HG2	39:BD:165:ILE:O	2.20	0.41
40:BE:52:LEU:HD23	40:BE:75:VAL:HB	2.01	0.41
40:BE:82:ARG:NH1	40:BE:82:ARG:CG	2.76	0.41
41:BF:7:TYR:CD2	41:BF:16:GLY:HA3	2.54	0.41
41:BF:8:GLN:HE21	41:BF:9:ILE:HB	1.85	0.41
41:BF:137:LYS:HE3	41:BF:137:LYS:HB2	1.85	0.41
41:BF:182:ASN:OD1	41:BF:185:ASP:CB	2.68	0.41
42:BG:114:ILE:O	42:BG:115:ARG:HB2	2.20	0.41
43:BH:38:SER:HA	43:BH:39:PRO:HD3	1.78	0.41
46:BN:55:VAL:HG21	46:BN:127:ASP:H	1.83	0.41
49:BQ:141:GLN:OE1	58:BZ:72:ARG:CD	2.67	0.41
51:BS:76:LYS:O	51:BS:79:ALA:HB3	2.20	0.41
51:BS:85:VAL:CG2	51:BS:106:ARG:HB2	2.50	0.41
51:BS:90:GLY:C	51:BS:92:TYR:H	2.24	0.41
52:BT:3:ARG:HD2	52:BT:6:LEU:HD13	2.02	0.41
52:BT:124:ASP:CB	52:BT:125:ARG:NH1	2.83	0.41
53:BU:66:ASN:C	53:BU:66:ASN:HD22	2.22	0.41
56:BX:70:LEU:HD23	56:BX:70:LEU:C	2.41	0.41
1:CA:109:A:O2'	1:CA:110:C:OP1	2.35	0.41
1:CA:189:G:N1	1:CA:189(L):G:C6	2.88	0.41
1:CA:233:C:C4	1:CA:234:C:C5	3.08	0.41
1:CA:241:C:O2'	1:CA:242:C:H5'	2.20	0.41
1:CA:390:C:C4'	16:CP:28:ARG:HH11	2.25	0.41
1:CA:397:A:H5'	1:CA:398:C:OP1	2.19	0.41
1:CA:411:A:C5	1:CA:429:U:C5	3.08	0.41
1:CA:677:U:H3	1:CA:713:G:H1	1.66	0.41
1:CA:756:C:H2'	1:CA:757:U:O4'	2.20	0.41
1:CA:792:A:O2'	1:CA:794:A:N7	2.38	0.41
1:CA:815:A:C6	1:CA:1529:G:C8	3.07	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:989:C:O2'	1:CA:990:C:H5'	2.20	0.41
1:CA:1011:G:O2'	1:CA:1012:U:H5'	2.20	0.41
1:CA:1012:U:O2	1:CA:1017:G:N2	2.52	0.41
2:CB:93:VAL:HG11	2:CB:97:TRP:HD1	1.85	0.41
2:CB:223:ILE:O	2:CB:226:ARG:CB	2.68	0.41
3:CC:18:TRP:HE3	3:CC:18:TRP:H	1.67	0.41
4:CD:106:TYR:CD2	4:CD:106:TYR:C	2.94	0.41
7:CG:107:ALA:O	7:CG:108:ALA:C	2.59	0.41
8:CH:54:ASP:OD1	8:CH:54:ASP:N	2.54	0.41
9:CI:65:VAL:HG22	9:CI:66:ARG:H	1.84	0.41
9:CI:73:GLN:O	9:CI:76:ALA:HB3	2.20	0.41
14:CN:7:ILE:HG13	14:CN:8:GLU:HG2	2.02	0.41
18:CR:53:ARG:CG	18:CR:63:GLN:HB2	2.50	0.41
21:CU:2:GLY:C	21:CU:4:GLY:N	2.67	0.41
22:CV:58:A:N6	22:CV:61:C:C4	2.88	0.41
24:CY:33:U:H3'	24:CY:34:G:H5''	2.01	0.41
25:CZ:39:ASN:HA	25:CZ:40:PRO:HD2	1.94	0.41
25:CZ:315:LYS:HA	25:CZ:372:VAL:O	2.20	0.41
25:CZ:321:TYR:HE2	25:CZ:323:LEU:HD12	1.81	0.41
26:D0:60:PHE:CE2	36:DA:2365:G:H4'	2.55	0.41
26:D0:65:GLY:HA3	26:D0:82:ARG:O	2.20	0.41
28:D2:33:MET:O	28:D2:36:ARG:HG2	2.19	0.41
28:D2:55:ARG:O	28:D2:56:GLN:C	2.58	0.41
28:D2:67:LYS:C	28:D2:69:ARG:N	2.73	0.41
30:D4:30:GLU:C	30:D4:31:ILE:HD12	2.40	0.41
32:D6:5:VAL:O	32:D6:5:VAL:HG12	2.20	0.41
32:D6:48:VAL:CG2	32:D6:49:HIS:H	2.17	0.41
36:DA:27:G:N2	36:DA:512:G:C2'	2.67	0.41
36:DA:51:G:N3	36:DA:119:A:C2	2.88	0.41
36:DA:217:G:O6	36:DA:431:U:O2	2.38	0.41
36:DA:398:G:H5''	36:DA:2090:G:O4'	2.20	0.41
36:DA:511:U:H6	36:DA:511:U:O5'	2.02	0.41
36:DA:654(S):G:H2'	36:DA:654(T):C:O4'	2.19	0.41
36:DA:765:G:C6	36:DA:766:C:C4	3.08	0.41
36:DA:840:C:H2'	36:DA:841:A:C8	2.55	0.41
36:DA:942:G:H5'	48:DP:35:HIS:O	2.20	0.41
36:DA:1290:C:H6	36:DA:1290:C:O5'	2.02	0.41
36:DA:2033:A:HO2'	36:DA:2034:U:P	2.41	0.41
36:DA:2284:C:O2'	36:DA:2288:A:N6	2.50	0.41
36:DA:2462:U:H2'	36:DA:2463:C:C6	2.55	0.41
36:DA:2590:A:P	39:DD:238:GLY:HA2	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2690:C:H6	36:DA:2690:C:OP2	2.03	0.41
36:DA:2819:G:C5	36:DA:2821:A:C2	3.09	0.41
36:DA:2839:G:C4	36:DA:2840:C:C5	3.08	0.41
37:DB:81:G:C2'	37:DB:82:G:H5'	2.47	0.41
38:DC:120:MET:HA	38:DC:123:VAL:CG1	2.50	0.41
39:DD:28:GLU:N	39:DD:29:PRO:CD	2.80	0.41
39:DD:43:ARG:NH1	39:DD:49:ILE:CG2	2.83	0.41
39:DD:159:ALA:HB1	39:DD:201:HIS:HB3	2.02	0.41
40:DE:38:THR:CG2	40:DE:40:GLU:HB2	2.50	0.41
40:DE:121:ASN:HD22	40:DE:121:ASN:HA	1.66	0.41
40:DE:131:ALA:HB3	40:DE:134:ILE:HD11	2.01	0.41
40:DE:165:VAL:CG1	40:DE:166:THR:H	2.30	0.41
41:DF:52:LYS:HA	41:DF:56:GLU:OE2	2.20	0.41
41:DF:171:PRO:C	41:DF:173:VAL:N	2.69	0.41
47:DO:120:GLU:HB2	52:DT:68:TYR:HE2	1.84	0.41
48:DP:5:ASP:OD2	48:DP:6:LEU:HD23	2.20	0.41
48:DP:71:VAL:O	48:DP:72:PRO:C	2.58	0.41
50:DR:18:LEU:HD22	50:DR:18:LEU:O	2.20	0.41
50:DR:79:LEU:HD13	50:DR:79:LEU:C	2.40	0.41
51:DS:85:VAL:HG23	51:DS:106:ARG:HB2	2.02	0.41
53:DU:35:ALA:O	53:DU:36:ARG:C	2.59	0.41
54:DV:51:VAL:HG12	54:DV:52:VAL:N	2.34	0.41
56:DX:3:THR:CA	56:DX:6:ASP:OD2	2.69	0.41
1:AA:146:G:N3	1:AA:146:G:H2'	2.34	0.41
1:AA:258:G:H2'	1:AA:259:G:H8	1.84	0.41
1:AA:279:A:OP2	17:AQ:95:TYR:OH	2.35	0.41
1:AA:375:U:H2'	1:AA:376:G:H8	1.86	0.41
1:AA:409:G:H3'	1:AA:410:G:H8	1.84	0.41
1:AA:548:G:H2'	1:AA:549:C:O4'	2.21	0.41
1:AA:607:A:C2'	1:AA:608:A:H5'	2.49	0.41
1:AA:919:A:HO2'	1:AA:1080:A:H61	1.68	0.41
1:AA:976:G:P	14:AN:32:SER:H	2.44	0.41
1:AA:1121:U:H2'	1:AA:1122:U:H6	1.84	0.41
1:AA:1253:G:C2'	1:AA:1254:C:H5'	2.50	0.41
1:AA:1344:C:H2'	1:AA:1345:U:H5'	2.03	0.41
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.56	0.41
1:AA:1407:C:O2	1:AA:1407:C:C2'	2.68	0.41
1:AA:1511:G:H8	1:AA:1511:G:O5'	2.03	0.41
1:AA:1511:G:O2'	1:AA:1512:U:H5'	2.20	0.41
2:AB:79:ASP:O	2:AB:82:ARG:HB2	2.20	0.41
2:AB:142:LEU:HD23	2:AB:142:LEU:C	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:233:SER:O	2:AB:235:SER:N	2.54	0.41
5:AE:150:ARG:HG2	5:AE:151:LEU:HD23	2.02	0.41
7:AG:107:ALA:O	7:AG:110:GLN:N	2.53	0.41
9:AI:126:SER:C	9:AI:128:ARG:H	2.23	0.41
10:AJ:7:LYS:HG2	10:AJ:71:LEU:HB2	2.01	0.41
17:AQ:87:LYS:HE2	17:AQ:87:LYS:HA	2.02	0.41
17:AQ:99:SER:C	17:AQ:100:LYS:CG	2.86	0.41
19:AS:48:THR:HG23	19:AS:61:TYR:HA	2.02	0.41
20:AT:8:ARG:HG3	20:AT:8:ARG:NH1	2.33	0.41
24:AY:33:U:C3'	24:AY:34:G:H5''	2.50	0.41
25:AZ:97:ALA:O	25:AZ:241:ARG:NH2	2.53	0.41
25:AZ:243:GLU:HG2	25:AZ:345:ARG:HH21	1.84	0.41
27:B1:15:ALA:HB2	27:B1:42:GLN:HG3	2.01	0.41
28:B2:41:ILE:CG1	28:B2:42:GLY:H	1.97	0.41
32:B6:35:GLU:HB3	32:B6:51:GLU:OE1	2.20	0.41
36:BA:9:U:O2'	36:BA:10:G:H8	2.03	0.41
36:BA:141:A:C8	36:BA:1408:C:O2'	2.71	0.41
36:BA:321:G:C1'	41:BF:168:ARG:NH2	2.83	0.41
36:BA:329:G:P	57:BY:71:LYS:HZ1	2.43	0.41
36:BA:355:G:H2'	36:BA:356:G:C8	2.56	0.41
36:BA:483:A:H8	36:BA:483:A:O5'	2.02	0.41
36:BA:518:G:C6	36:BA:519:U:C4	3.09	0.41
36:BA:564:C:OP1	54:BV:77:ALA:HB2	2.20	0.41
36:BA:654(Q):C:O2'	36:BA:654(R):C:H5'	2.21	0.41
36:BA:794:G:C6	36:BA:795:C:C4	3.08	0.41
36:BA:907:U:O2'	36:BA:908:C:H5'	2.20	0.41
36:BA:948:G:C6	36:BA:949:C:C4	3.08	0.41
36:BA:972:G:H2'	36:BA:973:A:C8	2.56	0.41
36:BA:1186:G:H8	36:BA:1186:G:O5'	2.03	0.41
36:BA:1259:G:O2'	36:BA:1260:G:C5'	2.62	0.41
36:BA:1561:G:O2'	36:BA:1562:A:H5'	2.20	0.41
36:BA:1788:C:C2	36:BA:1789:A:C8	3.08	0.41
36:BA:1823:G:C2	36:BA:1824:G:C8	3.08	0.41
36:BA:2101:G:N2	36:BA:2189:U:H3	2.16	0.41
36:BA:2137:C:H42	36:BA:2154:G:H22	1.65	0.41
36:BA:2292:C:C2	36:BA:2341:G:N2	2.89	0.41
36:BA:2582:G:N2	36:BA:2583:G:H1'	2.34	0.41
36:BA:2592:G:N7	36:BA:2593:U:C5	2.87	0.41
36:BA:2842:G:C6	36:BA:2876:G:N1	2.88	0.41
37:BB:94:C:H2'	37:BB:95:C:C6	2.55	0.41
39:BD:43:ARG:HB3	39:BD:54:ARG:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:203:LYS:HD2	40:BE:203:LYS:O	2.21	0.41
41:BF:157:VAL:HG21	41:BF:194:MET:HG2	2.01	0.41
43:BH:41:MET:SD	43:BH:53:GLU:O	2.78	0.41
45:BK:34:UNK:O	45:BK:38:UNK:CB	2.68	0.41
50:BR:29:LEU:O	50:BR:30:THR:CB	2.68	0.41
51:BS:106:ARG:HH11	51:BS:106:ARG:CB	2.33	0.41
55:BW:71:VAL:C	55:BW:73:ALA:N	2.73	0.41
57:BY:54:LYS:O	57:BY:55:TYR:C	2.58	0.41
58:BZ:14:LYS:O	58:BZ:16:SER:N	2.53	0.41
1:CA:59:A:H3'	1:CA:60:A:H5''	2.01	0.41
1:CA:126:G:C6	1:CA:127:G:C5	3.08	0.41
1:CA:266:G:H5'	1:CA:267:C:C5	2.55	0.41
1:CA:310:G:H2'	1:CA:311:C:H6	1.85	0.41
1:CA:933:G:N2	1:CA:935:A:O4'	2.53	0.41
1:CA:954:G:H2'	1:CA:955:U:O4'	2.20	0.41
1:CA:993:G:N3	1:CA:993:G:C2'	2.77	0.41
1:CA:1307:U:H3	1:CA:1330:U:H3	1.66	0.41
1:CA:1366:C:C6	1:CA:1367:C:H5	2.38	0.41
1:CA:1413:A:C6	1:CA:1414:U:C4	3.08	0.41
1:CA:1457:G:H2'	1:CA:1458:G:C8	2.53	0.41
1:CA:1508:G:O2'	1:CA:1509:C:H5'	2.19	0.41
2:CB:82:ARG:O	2:CB:85:ALA:HB3	2.19	0.41
3:CC:11:ARG:HE	3:CC:181:ASN:H	1.68	0.41
3:CC:178:LEU:C	3:CC:180:ALA:N	2.73	0.41
3:CC:180:ALA:O	3:CC:203:PHE:CE1	2.74	0.41
5:CE:32:VAL:HG12	5:CE:33:VAL:N	2.34	0.41
5:CE:60:TYR:O	5:CE:63:ARG:N	2.53	0.41
5:CE:110:LEU:HD23	5:CE:110:LEU:HA	1.85	0.41
7:CG:8:GLU:OE2	7:CG:9:VAL:C	2.59	0.41
8:CH:6:ILE:C	8:CH:8:ASP:N	2.73	0.41
8:CH:6:ILE:HG22	8:CH:7:ALA:N	2.35	0.41
8:CH:26:VAL:HG22	8:CH:27:PRO:O	2.20	0.41
8:CH:82:HIS:HB2	8:CH:138:TRP:CD2	2.55	0.41
13:CM:83:ASP:OD1	19:CS:74:PHE:HE1	2.02	0.41
15:CO:3:ILE:CG2	15:CO:38:ARG:NH2	2.83	0.41
16:CP:28:ARG:C	16:CP:30:GLY:H	2.24	0.41
17:CQ:59:ILE:HG23	17:CQ:71:PHE:HB3	2.00	0.41
18:CR:36:ASN:OD1	18:CR:39:VAL:HB	2.20	0.41
19:CS:15:LEU:HD21	19:CS:33:THR:OG1	2.20	0.41
21:CU:5:ASP:C	21:CU:7:ARG:N	2.74	0.41
25:CZ:99:MET:H	25:CZ:241:ARG:HH22	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:261:GLU:O	25:CZ:262:THR:C	2.58	0.41
26:D0:67:VAL:HG12	26:D0:68:GLU:H	1.85	0.41
32:D6:11:LEU:HD21	32:D6:52:VAL:N	2.29	0.41
32:D6:12:GLU:HA	32:D6:23:THR:HA	2.02	0.41
33:D7:18:PHE:CG	36:DA:126:A:C8	3.08	0.41
34:D8:23:VAL:HG22	34:D8:47:LYS:O	2.20	0.41
36:DA:54:G:H8	36:DA:54:G:O5'	2.03	0.41
36:DA:66:C:H2'	36:DA:67:U:O4'	2.20	0.41
36:DA:83:G:N1	36:DA:102:G:H2'	2.35	0.41
36:DA:271(F):C:C2'	36:DA:271(G):C:H5'	2.50	0.41
36:DA:654(H):G:H2'	36:DA:654(I):C:C5'	2.51	0.41
36:DA:680:G:H2'	36:DA:681:G:C8	2.55	0.41
36:DA:705:A:H2'	36:DA:706:A:C8	2.55	0.41
36:DA:862:G:H21	37:DB:100:A:H2	1.69	0.41
36:DA:1203:G:O2'	36:DA:1242:A:N6	2.53	0.41
36:DA:1572:A:O2'	36:DA:1573:G:H5'	2.20	0.41
36:DA:1614:A:H61	55:DW:87:PRO:HA	1.85	0.41
36:DA:1624:G:H2'	36:DA:1625:C:H6	1.85	0.41
36:DA:1678:G:C8	36:DA:1678:G:O5'	2.67	0.41
36:DA:1829:A:N3	39:DD:15:PHE:CZ	2.88	0.41
36:DA:1884:A:H2'	36:DA:1885:A:H5''	2.02	0.41
36:DA:2307:G:N2	36:DA:2308:G:H5''	2.35	0.41
36:DA:2524:G:C5'	36:DA:2524:G:H8	2.32	0.41
36:DA:2568:C:C4	36:DA:2569:G:N7	2.88	0.41
36:DA:2724:C:H2'	36:DA:2725:A:H8	1.83	0.41
36:DA:2760:C:H2'	36:DA:2761:G:C5'	2.42	0.41
36:DA:2777:G:C8	36:DA:2777:G:H3'	2.55	0.41
38:DC:15:ASP:HA	38:DC:16:PRO:HD2	1.91	0.41
38:DC:74:VAL:HG21	38:DC:157:LYS:HG2	2.03	0.41
38:DC:188:ASN:O	38:DC:189:ILE:C	2.58	0.41
38:DC:198:ALA:C	38:DC:200:LYS:H	2.23	0.41
39:DD:95:LEU:HD12	39:DD:95:LEU:N	2.33	0.41
39:DD:149:PRO:O	39:DD:150:LYS:HB2	2.20	0.41
41:DF:59:TYR:CD1	41:DF:78:ILE:HB	2.55	0.41
42:DG:51:ARG:NE	42:DG:51:ARG:CA	2.64	0.41
42:DG:116:ASP:O	42:DG:117:PHE:HB3	2.20	0.41
43:DH:153:LYS:H	43:DH:153:LYS:CD	2.25	0.41
43:DH:162:ILE:HG23	43:DH:162:ILE:O	2.21	0.41
46:DN:24:GLY:HA2	46:DN:27:ALA:HB3	2.01	0.41
47:DO:2:ILE:HG22	47:DO:3:GLN:N	2.36	0.41
48:DP:16:ARG:CG	48:DP:17:LYS:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:35:HIS:HB3	48:DP:36:LYS:H	1.41	0.41
48:DP:36:LYS:HB2	48:DP:41:ARG:CB	2.49	0.41
48:DP:47:ASP:HB3	48:DP:48:PRO:C	2.40	0.41
49:DQ:48:GLU:C	49:DQ:50:ALA:N	2.74	0.41
49:DQ:59:ARG:NH1	49:DQ:59:ARG:HG3	2.35	0.41
50:DR:12:ARG:HD3	50:DR:16:HIS:NE2	2.35	0.41
52:DT:36:GLU:O	52:DT:38:ASN:N	2.54	0.41
52:DT:47:GLY:CA	52:DT:65:LYS:HB2	2.49	0.41
52:DT:51:ARG:HG2	52:DT:62:THR:HG23	2.02	0.41
52:DT:76:PHE:HB3	52:DT:82:LEU:HD21	2.02	0.41
55:DW:70:TYR:O	55:DW:108:GLY:N	2.51	0.41
56:DX:61:GLY:O	56:DX:62:LYS:O	2.37	0.41
58:DZ:119:GLU:HG2	58:DZ:119:GLU:O	2.20	0.41
1:AA:81:U:N3	1:AA:83:U:H5	2.18	0.41
1:AA:138:G:H2'	1:AA:139:G:O4'	2.21	0.41
1:AA:265:G:H5'	17:AQ:64:PRO:O	2.21	0.41
1:AA:273:A:H2'	1:AA:274:A:O4'	2.20	0.41
1:AA:363:A:C6	1:AA:364:A:C6	3.08	0.41
1:AA:411:A:C5	1:AA:429:U:C5	3.08	0.41
1:AA:446:G:C2'	1:AA:447:G:H5'	2.49	0.41
1:AA:600:C:OP1	8:AH:97:VAL:HG12	2.20	0.41
1:AA:677:U:H3	1:AA:713:G:H22	1.68	0.41
1:AA:786:G:C2	1:AA:787:A:C4	3.08	0.41
1:AA:830:G:C5	1:AA:831:U:C5	3.07	0.41
1:AA:943:U:H2'	1:AA:944:G:C5'	2.49	0.41
1:AA:1071:C:H5''	5:AE:49:PRO:HG2	2.02	0.41
1:AA:1316:G:N1	1:AA:1319:A:OP2	2.50	0.41
1:AA:1330:U:O2	1:AA:1330:U:H2'	2.19	0.41
1:AA:1387:G:C4	1:AA:1388:C:C5	3.08	0.41
1:AA:1419:G:N7	1:AA:1482:G:N2	2.68	0.41
1:AA:1431:C:C4	1:AA:1432:G:C4	3.09	0.41
2:AB:200:ILE:HG22	2:AB:202:PRO:CD	2.49	0.41
3:AC:90:GLU:C	3:AC:93:LYS:HB3	2.41	0.41
3:AC:120:VAL:HG12	3:AC:121:ALA:H	1.85	0.41
4:AD:133:VAL:HG21	4:AD:138:TYR:CD1	2.56	0.41
8:AH:9:MET:HE3	8:AH:36:LEU:HD21	2.02	0.41
8:AH:34:GLU:O	8:AH:35:ILE:O	2.39	0.41
8:AH:50:ARG:HG3	8:AH:50:ARG:NH1	2.35	0.41
9:AI:47:LEU:HD12	9:AI:47:LEU:N	2.35	0.41
9:AI:52:ALA:CB	9:AI:95:LYS:HE2	2.29	0.41
13:AM:93:ARG:HD2	13:AM:93:ARG:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:35:ARG:NH2	15:AO:59:MET:CE	2.83	0.41
19:AS:61:TYR:HD2	19:AS:62:ILE:H	1.67	0.41
22:AV:18:G:H4'	22:AV:60:U:C2	2.55	0.41
25:AZ:67:HIS:CE1	25:AZ:98:GLN:HE22	2.17	0.41
25:AZ:169:PRO:O	25:AZ:171:ILE:CD1	2.68	0.41
25:AZ:223:MET:O	25:AZ:223:MET:CG	2.68	0.41
25:AZ:271:GLU:C	25:AZ:286:VAL:HG23	2.41	0.41
25:AZ:315:LYS:HG2	25:AZ:373:GLU:HG3	2.02	0.41
25:AZ:401:THR:HG22	25:AZ:402:LYS:N	2.35	0.41
26:B0:23:VAL:CA	26:B0:38:VAL:HG22	2.45	0.41
26:B0:48:GLY:CA	26:B0:51:VAL:HB	2.50	0.41
27:B1:13:ILE:H	27:B1:13:ILE:CD1	2.12	0.41
27:B1:24:ALA:HB2	27:B1:32:LYS:HZ1	1.84	0.41
29:B3:6:VAL:HG12	29:B3:56:VAL:HG13	2.02	0.41
34:B8:53:PRO:C	34:B8:55:ALA:N	2.74	0.41
36:BA:66:C:H2'	36:BA:67:U:O4'	2.19	0.41
36:BA:118:A:H5'	36:BA:119:A:C8	2.55	0.41
36:BA:220:G:H1	36:BA:427:U:H3'	1.84	0.41
36:BA:246:C:O5'	36:BA:246:C:H6	2.03	0.41
36:BA:519:U:H5''	55:BW:25:ARG:CZ	2.49	0.41
36:BA:647:G:H3'	36:BA:648:G:H8	1.84	0.41
36:BA:662:G:O2'	36:BA:663:G:H5'	2.19	0.41
36:BA:671:C:OP1	48:BP:43:GLY:HA2	2.20	0.41
36:BA:769:G:C2'	36:BA:770:G:H5'	2.49	0.41
36:BA:841:A:C6	36:BA:938:G:N1	2.88	0.41
36:BA:966:G:H5'	36:BA:2272:U:H1'	2.03	0.41
36:BA:1012:U:H5	46:BN:28:THR:HG21	1.83	0.41
36:BA:1150:C:H2'	36:BA:1151:G:O4'	2.19	0.41
36:BA:1223:G:C5	36:BA:1225:G:OP2	2.73	0.41
36:BA:1458:C:H5'	36:BA:1459:G:O4'	2.20	0.41
36:BA:1636:C:H4'	36:BA:1761:C:O4'	2.20	0.41
36:BA:1792:G:P	39:BD:206:LEU:HB2	2.60	0.41
36:BA:1902:C:H1'	39:BD:244:ARG:CD	2.50	0.41
36:BA:2070:G:N2	36:BA:2442:C:H1'	2.35	0.41
36:BA:2361:A:C4	36:BA:2362:G:C8	3.09	0.41
36:BA:2579:C:O4'	40:BE:134:ILE:HG12	2.20	0.41
36:BA:2603:G:C5	36:BA:2604:U:C5	3.08	0.41
36:BA:2627:G:N2	36:BA:2777:G:OP2	2.45	0.41
36:BA:2641:G:OP2	46:BN:74:ARG:NH2	2.54	0.41
36:BA:2856:C:O2'	36:BA:2857:G:H5'	2.20	0.41
37:BB:42:C:H42	42:BG:91:ARG:CZ	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:28:LEU:C	38:BC:28:LEU:CD2	2.89	0.41
39:BD:66:ASP:OD1	39:BD:66:ASP:C	2.58	0.41
39:BD:244:ARG:HG2	39:BD:245:PRO:N	2.35	0.41
40:BE:143:ASN:HD22	40:BE:143:ASN:N	2.18	0.41
40:BE:199:ARG:HG2	40:BE:200:GLU:OE2	2.20	0.41
41:BF:31:HIS:HB2	48:BP:13:ASN:OD1	2.19	0.41
41:BF:45:ARG:NH1	41:BF:97:TYR:CE1	2.88	0.41
41:BF:68:LYS:HB3	41:BF:69:HIS:CD2	2.55	0.41
41:BF:99:TYR:O	41:BF:101:LEU:N	2.53	0.41
41:BF:163:VAL:O	41:BF:164:ARG:C	2.59	0.41
42:BG:2:PRO:O	42:BG:3:LEU:CB	2.67	0.41
42:BG:98:ARG:HA	42:BG:98:ARG:HD3	1.83	0.41
43:BH:130:ARG:HB3	43:BH:130:ARG:HH11	1.83	0.41
48:BP:126:VAL:HG13	48:BP:145:PRO:CB	2.49	0.41
50:BR:54:LEU:HD12	50:BR:54:LEU:N	2.36	0.41
53:BU:20:LEU:CD2	53:BU:20:LEU:N	2.79	0.41
53:BU:28:ARG:HB3	53:BU:38:THR:OG1	2.21	0.41
54:BV:2:PHE:CE1	54:BV:13:ARG:NH1	2.89	0.41
56:BX:11:PRO:HG2	56:BX:13:LEU:HD21	2.03	0.41
1:CA:66:G:C2	1:CA:104:G:H1'	2.55	0.41
1:CA:325:A:C2'	1:CA:326:G:H5'	2.51	0.41
1:CA:331:G:H8	1:CA:331:G:O5'	2.03	0.41
1:CA:344:A:H3'	1:CA:346:G:O6	2.20	0.41
1:CA:529:G:O6	12:CL:49:ASN:HB3	2.19	0.41
1:CA:681:C:H6	1:CA:681:C:O5'	2.03	0.41
1:CA:764:C:H2'	1:CA:765:G:C8	2.55	0.41
1:CA:1039:C:C6	1:CA:1040:U:H5	2.39	0.41
1:CA:1095:U:P	1:CA:1108:G:H1	2.43	0.41
1:CA:1342:C:O5'	1:CA:1342:C:H6	2.03	0.41
2:CB:164:VAL:CG1	2:CB:165:VAL:N	2.82	0.41
3:CC:6:HIS:HD2	3:CC:7:PRO:HD2	1.86	0.41
3:CC:164:ARG:HE	3:CC:164:ARG:HB3	1.22	0.41
5:CE:107:ARG:C	5:CE:109:ILE:N	2.73	0.41
6:CF:37:VAL:O	6:CF:38:GLU:HG3	2.20	0.41
6:CF:75:LEU:O	6:CF:78:GLU:HB3	2.21	0.41
6:CF:81:ILE:H	6:CF:81:ILE:HG13	1.66	0.41
10:CJ:80:LYS:O	10:CJ:83:GLU:HB3	2.20	0.41
10:CJ:90:LEU:N	10:CJ:91:PRO:CD	2.83	0.41
11:CK:12:ARG:HH21	11:CK:14:VAL:CG1	2.33	0.41
11:CK:89:ALA:O	11:CK:91:ARG:N	2.53	0.41
12:CL:39:VAL:O	12:CL:56:ALA:HB1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:35:GLU:CG	13:CM:36:LYS:H	2.33	0.41
17:CQ:13:ASP:C	17:CQ:15:MET:N	2.73	0.41
17:CQ:46:ASP:CG	17:CQ:49:GLU:HA	2.41	0.41
21:CU:25:LYS:HG2	21:CU:26:LYS:N	2.35	0.41
25:CZ:140:MET:O	25:CZ:141:VAL:O	2.37	0.41
25:CZ:364:PRO:C	25:CZ:366:ASP:H	2.24	0.41
28:D2:38:GLN:OE1	28:D2:44:LEU:HD21	2.21	0.41
28:D2:46:GLN:HB3	28:D2:48:HIS:CE1	2.55	0.41
29:D3:49:LYS:O	29:D3:49:LYS:CG	2.68	0.41
32:D6:20:ASN:HD21	32:D6:41:PRO:HB3	1.81	0.41
33:D7:3:ARG:HA	33:D7:3:ARG:HD3	1.89	0.41
36:DA:21:A:HO2'	36:DA:22:C:H5'	1.85	0.41
36:DA:245:G:H2'	36:DA:246:C:C6	2.55	0.41
36:DA:272(D):G:C2	36:DA:272(E):G:C5	3.08	0.41
36:DA:272(J):C:H3'	36:DA:274:G:H5''	2.02	0.41
36:DA:418:G:C2	36:DA:419:C:C6	3.08	0.41
36:DA:532:A:C5'	53:DU:28:ARG:NH1	2.83	0.41
36:DA:605:C:N4	36:DA:623:G:O6	2.54	0.41
36:DA:628:G:C2'	36:DA:629:G:C5'	2.91	0.41
36:DA:662:G:O2'	36:DA:663:G:H5'	2.20	0.41
36:DA:681:G:H2'	36:DA:682:G:H8	1.83	0.41
36:DA:1273:U:C4	36:DA:2003:G:O4'	2.74	0.41
36:DA:1666:G:H3'	36:DA:1667:G:C8	2.55	0.41
36:DA:1789:A:C5	36:DA:1790:C:C5	3.08	0.41
36:DA:1791:A:H5'	36:DA:1792:G:OP2	2.20	0.41
36:DA:1806:C:N4	36:DA:1811:G:N1	2.68	0.41
36:DA:1820:U:C2	39:DD:159:ALA:O	2.73	0.41
36:DA:2352:A:C2	36:DA:2366:A:C2	3.09	0.41
36:DA:2712:U:C2'	36:DA:2713:A:H5'	2.50	0.41
39:DD:45:ASN:CG	39:DD:46:GLN:N	2.72	0.41
39:DD:134:ARG:NE	39:DD:135:PHE:HE1	2.18	0.41
40:DE:28:ALA:O	40:DE:29:GLY:O	2.38	0.41
40:DE:96:PHE:O	40:DE:175:VAL:HG11	2.21	0.41
41:DF:40:GLN:NE2	41:DF:184:TYR:CB	2.83	0.41
41:DF:97:TYR:N	41:DF:97:TYR:CD2	2.88	0.41
41:DF:116:ASP:O	41:DF:120:GLU:HG2	2.19	0.41
42:DG:45:GLU:OE2	42:DG:45:GLU:CA	2.69	0.41
43:DH:65:HIS:CE1	43:DH:69:ARG:NH2	2.88	0.41
46:DN:90:MET:O	46:DN:95:PRO:HA	2.21	0.41
46:DN:125:GLY:HA3	46:DN:126:PRO:C	2.41	0.41
48:DP:22:GLY:O	48:DP:29:LYS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:24:GLY:HA2	48:DP:33:ARG:NH1	2.34	0.41
49:DQ:42:ILE:HB	49:DQ:97:VAL:HG21	2.02	0.41
49:DQ:50:ALA:O	49:DQ:54:MET:HB2	2.20	0.41
51:DS:12:PHE:HD2	51:DS:12:PHE:H	1.69	0.41
52:DT:78:LEU:HA	52:DT:82:LEU:HD22	2.03	0.41
52:DT:89:VAL:CG1	52:DT:91:ARG:HG3	2.48	0.41
52:DT:110:ILE:HG22	52:DT:111:ARG:N	2.35	0.41
54:DV:71:LEU:CD2	54:DV:84:LYS:HE2	2.51	0.41
55:DW:6:ILE:CG2	55:DW:7:ALA:H	2.33	0.41
55:DW:88:ARG:HA	55:DW:88:ARG:HD2	1.86	0.41
57:DY:56:PRO:O	57:DY:57:GLN:O	2.38	0.41
58:DZ:103:ARG:HD3	58:DZ:138:GLU:HG2	2.03	0.41
1:AA:81:U:H1'	1:AA:82:U:C5	2.56	0.41
1:AA:654:G:H2'	1:AA:655:A:C8	2.55	0.41
1:AA:716:A:H8	1:AA:716:A:O5'	2.03	0.41
1:AA:830:G:H2'	1:AA:831:U:O4'	2.21	0.41
1:AA:950:U:H2'	1:AA:951:G:C8	2.53	0.41
1:AA:1091:U:O2	1:AA:1093:A:C8	2.74	0.41
1:AA:1518:A:H2'	1:AA:1519:A:C8	2.56	0.41
2:AB:179:LYS:CA	8:AH:72:PRO:HD3	2.47	0.41
3:AC:48:TYR:OH	3:AC:122:GLU:HG3	2.20	0.41
4:AD:38:TYR:O	4:AD:38:TYR:HD1	2.04	0.41
5:AE:28:PHE:CD2	5:AE:51:VAL:HG22	2.55	0.41
5:AE:60:TYR:O	5:AE:63:ARG:N	2.51	0.41
7:AG:118:VAL:CG2	7:AG:119:ARG:H	2.19	0.41
8:AH:40:ALA:N	8:AH:45:ILE:HG13	2.35	0.41
11:AK:38:ASN:O	11:AK:39:PRO:O	2.38	0.41
12:AL:15:ARG:HD3	12:AL:15:ARG:HA	1.88	0.41
15:AO:17:ARG:NH1	15:AO:77:ARG:CZ	2.84	0.41
15:AO:36:ILE:HD12	15:AO:63:ARG:NH1	2.36	0.41
16:AP:8:ARG:HB2	16:AP:28:ARG:HH21	1.85	0.41
17:AQ:46:ASP:CG	17:AQ:49:GLU:HA	2.40	0.41
20:AT:70:SER:HA	20:AT:73:HIS:NE2	2.35	0.41
22:AV:56:C:H1'	42:BG:76:SER:HB3	2.03	0.41
22:AV:73:A:N3	22:AV:73:A:H3'	2.35	0.41
25:AZ:214:VAL:CG2	25:AZ:215:ARG:N	2.83	0.41
25:AZ:362:VAL:HG11	25:AZ:368:VAL:HG22	2.02	0.41
26:B0:55:ARG:C	26:B0:57:PHE:N	2.71	0.41
28:B2:25:VAL:HA	28:B2:28:LYS:HB2	2.01	0.41
28:B2:33:MET:O	28:B2:35:LEU:N	2.53	0.41
32:B6:36:LEU:C	32:B6:36:LEU:CD2	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:17:THR:OG1	34:B8:21:LYS:HB2	2.20	0.41
36:BA:11:G:O2'	36:BA:12:U:H5'	2.20	0.41
36:BA:336:C:H5''	57:BY:7:VAL:CG1	2.51	0.41
36:BA:477:A:H2'	36:BA:478:A:H8	1.85	0.41
36:BA:547:A:O2'	36:BA:548:A:H5'	2.20	0.41
36:BA:627:A:H8	36:BA:627:A:OP1	2.03	0.41
36:BA:763:G:H2'	36:BA:764:A:O5'	2.19	0.41
36:BA:802:A:H2'	36:BA:803:U:H6	1.76	0.41
36:BA:832:G:H2'	36:BA:833:U:C6	2.56	0.41
36:BA:952:G:C4	36:BA:966:G:N2	2.89	0.41
36:BA:1011:G:C6	36:BA:1151:G:C6	3.08	0.41
36:BA:1093:G:O3'	43:BH:170:ARG:NH2	2.53	0.41
36:BA:1226:A:N7	36:BA:1227:G:H1'	2.36	0.41
36:BA:1827:C:H2'	36:BA:1828:G:C4'	2.50	0.41
36:BA:1930:G:N2	36:BA:1969:A:C5'	2.83	0.41
36:BA:1935:G:C5	36:BA:1962:C:C5	3.09	0.41
36:BA:2078:C:C4	36:BA:2079:U:C4	3.08	0.41
36:BA:2106:G:C6	36:BA:2184:G:C6	3.08	0.41
36:BA:2111:C:C4	36:BA:2145:C:H2'	2.54	0.41
36:BA:2312:U:O2'	42:BG:40:ASN:ND2	2.52	0.41
36:BA:2577:A:H8	36:BA:2577:A:O5'	2.04	0.41
36:BA:2635:C:H5''	40:BE:78:LEU:HD12	2.02	0.41
36:BA:2682:U:H1'	40:BE:12:THR:HA	2.03	0.41
36:BA:2809:A:N6	36:BA:2891:G:H2'	2.36	0.41
36:BA:2836:U:H2'	36:BA:2837:G:C8	2.55	0.41
38:BC:71:GLN:NE2	38:BC:157:LYS:HD3	2.33	0.41
41:BF:49:ALA:HB1	41:BF:92:PRO:CB	2.50	0.41
41:BF:114:VAL:HG21	41:BF:181:LEU:HD21	2.02	0.41
41:BF:127:GLU:OE1	41:BF:196:LEU:HD12	2.21	0.41
42:BG:4:ASP:OD2	42:BG:9:ARG:NH2	2.54	0.41
42:BG:29:TRP:C	42:BG:31:VAL:N	2.71	0.41
46:BN:40:PRO:HA	53:BU:64:ARG:HA	2.02	0.41
48:BP:23:PRO:CG	48:BP:33:ARG:NE	2.83	0.41
48:BP:100:LEU:CB	48:BP:106:LEU:HD13	2.44	0.41
52:BT:46:GLU:O	52:BT:65:LYS:HG2	2.20	0.41
52:BT:76:PHE:HB3	52:BT:82:LEU:HD21	2.03	0.41
53:BU:84:LYS:HD3	53:BU:84:LYS:HA	1.92	0.41
54:BV:58:VAL:HG21	54:BV:98:GLU:HG2	2.02	0.41
55:BW:12:ILE:HG23	55:BW:17:VAL:CG2	2.50	0.41
55:BW:80:PRO:O	55:BW:100:THR:HG22	2.19	0.41
57:BY:13:VAL:O	57:BY:24:VAL:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:67:LEU:CG	57:BY:68:HIS:H	2.33	0.41
1:CA:110:C:C4	1:CA:111:G:N7	2.88	0.41
1:CA:355:C:N4	1:CA:356:A:N6	2.68	0.41
1:CA:448:A:C8	1:CA:487:A:C6	3.08	0.41
1:CA:619:U:N3	4:CD:135:LEU:HD11	2.35	0.41
1:CA:684:A:C2	11:CK:39:PRO:HG2	2.55	0.41
1:CA:920:U:H1'	1:CA:1080:A:N3	2.35	0.41
1:CA:928:G:C2	1:CA:1390:U:O2	2.73	0.41
1:CA:949:A:N7	1:CA:950:U:C4	2.89	0.41
1:CA:993:G:H4'	1:CA:994:A:OP2	2.20	0.41
1:CA:1128:C:O2'	1:CA:1130:A:N7	2.51	0.41
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.20	0.41
1:CA:1346:A:C6	1:CA:1374:A:H5''	2.56	0.41
1:CA:1418:A:C6	1:CA:1483:A:C5	3.08	0.41
1:CA:1419:G:O6	1:CA:1482:G:C5	2.74	0.41
1:CA:1432:G:N2	1:CA:1469:G:O6	2.54	0.41
1:CA:1481:U:H2'	1:CA:1482:G:H8	1.84	0.41
1:CA:1511:G:H8	1:CA:1511:G:O5'	2.04	0.41
3:CC:60:ALA:N	3:CC:63:ASN:HD21	2.19	0.41
3:CC:125:GLU:OE2	3:CC:190:ARG:N	2.52	0.41
3:CC:177:THR:HG22	3:CC:180:ALA:H	1.85	0.41
4:CD:94:LEU:O	4:CD:95:GLY:C	2.59	0.41
5:CE:6:PHE:CB	5:CE:34:VAL:HG22	2.50	0.41
5:CE:150:ARG:HG2	5:CE:151:LEU:HD23	2.01	0.41
8:CH:2:LEU:CD2	8:CH:3:THR:N	2.80	0.41
10:CJ:78:ASN:ND2	10:CJ:81:THR:HG21	2.10	0.41
24:CY:37:YG:H142	24:CY:38:A:C2	2.55	0.41
24:CY:55:PSU:N1	24:CY:58:A:OP2	2.53	0.41
25:CZ:115:GLN:HE21	25:CZ:115:GLN:HA	1.84	0.41
26:D0:55:ARG:C	26:D0:57:PHE:N	2.71	0.41
28:D2:7:ARG:HG3	28:D2:7:ARG:H	1.47	0.41
28:D2:35:LEU:C	28:D2:35:LEU:CD1	2.77	0.41
28:D2:50:ILE:N	28:D2:50:ILE:CD1	2.84	0.41
32:D6:6:ARG:C	32:D6:8:LYS:N	2.73	0.41
34:D8:10:ALA:CB	34:D8:13:ARG:HG2	2.49	0.41
35:D9:25:VAL:HB	35:D9:34:GLN:CB	2.51	0.41
35:D9:29:ASN:ND2	35:D9:29:ASN:C	2.73	0.41
36:DA:45:C:H2'	36:DA:47:C:C6	2.55	0.41
36:DA:139:G:C5	36:DA:140:G:H2'	2.55	0.41
36:DA:188:G:C6	36:DA:189:G:C4	3.08	0.41
36:DA:206:U:H2'	36:DA:207:A:H8	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:247:G:OP2	36:DA:249:C:H5	2.04	0.41
36:DA:271(T):C:H2'	36:DA:271(U):G:C8	2.55	0.41
36:DA:271(Z):C:H1'	36:DA:272(C):G:H1'	2.03	0.41
36:DA:464:U:H2'	36:DA:465:G:C5'	2.51	0.41
36:DA:603:A:C4'	36:DA:604:G:O5'	2.68	0.41
36:DA:654(Q):C:O2'	36:DA:654(R):C:H5'	2.20	0.41
36:DA:656:G:C6	36:DA:657:U:C4	3.08	0.41
36:DA:937:U:H2'	36:DA:938:G:H8	1.86	0.41
36:DA:1142:U:H3'	36:DA:1142(A):A:C5'	2.51	0.41
36:DA:1365:A:N6	36:DA:1366:A:C6	2.89	0.41
36:DA:1541:G:N3	36:DA:1541:G:O4'	2.53	0.41
36:DA:1573:G:C8	36:DA:1574:C:C5	3.08	0.41
36:DA:1578:U:H2'	36:DA:1579:A:C5'	2.35	0.41
36:DA:1641:A:H2'	36:DA:1642:G:O4'	2.19	0.41
36:DA:1706:U:O2	36:DA:1757:U:H5'	2.21	0.41
36:DA:1809:A:H2'	36:DA:1810:A:H8	1.83	0.41
36:DA:2359:C:O2'	36:DA:2360:A:H5'	2.21	0.41
36:DA:2439:A:C8	36:DA:2586:C:H4'	2.56	0.41
36:DA:2452:C:C4	36:DA:2453:A:C6	3.08	0.41
36:DA:2568:C:N4	36:DA:2569:G:N7	2.69	0.41
36:DA:2600:A:OP2	39:DD:237:GLU:HG3	2.20	0.41
36:DA:2663:G:H8	36:DA:2663:G:OP2	2.03	0.41
36:DA:2743:C:N3	36:DA:2762:G:C2	2.88	0.41
36:DA:2754:U:H2'	36:DA:2756:U:P	2.61	0.41
37:DB:21:G:C8	37:DB:63:G:C2	3.08	0.41
37:DB:104:U:H6	37:DB:104:U:H3'	1.86	0.41
38:DC:42:GLU:OE1	38:DC:216:THR:O	2.38	0.41
38:DC:84:LYS:O	38:DC:88:GLU:HG3	2.19	0.41
38:DC:191:ALA:HA	38:DC:194:ARG:CZ	2.51	0.41
40:DE:69:LYS:C	40:DE:71:GLY:N	2.73	0.41
40:DE:145:LYS:O	40:DE:145:LYS:HD3	2.20	0.41
40:DE:176:ILE:CG2	40:DE:178:GLU:HB3	2.50	0.41
42:DG:68:PRO:HB3	42:DG:90:LEU:HG	2.02	0.41
42:DG:83:ARG:HG3	42:DG:83:ARG:NH1	2.35	0.41
42:DG:128:ARG:O	42:DG:129:GLY:C	2.59	0.41
46:DN:48:MET:HE3	46:DN:48:MET:H	1.79	0.41
48:DP:85:LEU:HD11	48:DP:137:LYS:HD3	2.02	0.41
50:DR:44:LEU:HD13	50:DR:48:VAL:HB	2.01	0.41
52:DT:78:LEU:O	52:DT:79:HIS:CD2	2.72	0.41
53:DU:113:ALA:C	53:DU:115:ALA:N	2.74	0.41
57:DY:14:LEU:HD12	57:DY:15:VAL:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:38:ILE:HD12	57:DY:38:ILE:HA	1.86	0.41
57:DY:84:ARG:HH21	57:DY:97:ARG:HB2	1.85	0.41
58:DZ:105:VAL:HG12	58:DZ:139:VAL:O	2.20	0.41
1:AA:59:A:H3'	1:AA:60:A:H5''	2.03	0.41
1:AA:234:C:O2'	1:AA:235:C:H5'	2.21	0.41
1:AA:297:G:H4'	1:AA:557:G:H4'	2.03	0.41
1:AA:342:C:C4	1:AA:343:U:N3	2.89	0.41
1:AA:662:G:O2'	1:AA:663:A:H5'	2.21	0.41
1:AA:928:G:H2'	1:AA:929:G:C5'	2.50	0.41
1:AA:1308:U:OP2	13:AM:99:ARG:HD2	2.21	0.41
1:AA:1339:A:C1'	22:AV:41:C:H1'	2.51	0.41
1:AA:1523:G:H2'	1:AA:1524:C:C6	2.56	0.41
3:AC:162:GLN:O	3:AC:163:ALA:C	2.59	0.41
4:AD:62:GLN:O	4:AD:63:LYS:C	2.59	0.41
4:AD:62:GLN:NE2	4:AD:65:ARG:HH21	2.18	0.41
7:AG:50:ILE:C	7:AG:52:GLU:H	2.24	0.41
8:AH:4:ASP:CG	8:AH:7:ALA:HB3	2.40	0.41
9:AI:4:TYR:O	9:AI:18:PHE:HA	2.20	0.41
13:AM:57:ARG:C	13:AM:59:TYR:H	2.24	0.41
13:AM:105:THR:O	13:AM:106:ASN:CB	2.67	0.41
16:AP:5:ARG:HB2	16:AP:6:LEU:H	1.67	0.41
18:AR:48:GLY:O	18:AR:74:ARG:NH2	2.53	0.41
20:AT:19:SER:C	20:AT:21:LYS:H	2.23	0.41
20:AT:50:GLU:CB	20:AT:100:ILE:HD13	2.45	0.41
20:AT:75:ASN:O	20:AT:79:ARG:N	2.50	0.41
22:AV:47:U:O2'	22:AV:48:C:H5'	2.20	0.41
22:AV:70:G:C2'	22:AV:71:G:H5'	2.51	0.41
22:AW:68:C:H2'	22:AW:69:G:H8	1.80	0.41
24:AY:44:A:H2'	24:AY:45:G:O4'	2.21	0.41
26:B0:60:PHE:CE2	36:BA:2365:G:H4'	2.55	0.41
27:B1:5:CYS:HG	27:B1:62:VAL:HA	1.86	0.41
29:B3:20:LYS:NZ	36:BA:970:C:OP1	2.54	0.41
31:B5:4:HIS:O	36:BA:2056:G:C2	2.73	0.41
31:B5:52:TYR:CE2	36:BA:2884:U:O2	2.74	0.41
33:B7:19:ARG:HD3	36:BA:125:G:OP2	2.20	0.41
34:B8:22:VAL:O	34:B8:49:VAL:HG23	2.21	0.41
34:B8:41:ILE:HG23	34:B8:42:ARG:N	2.35	0.41
36:BA:179:G:C2	36:BA:180:G:C5	3.08	0.41
36:BA:271(B):C:N4	36:BA:271(W):G:H21	2.18	0.41
36:BA:413:C:H2'	36:BA:414:C:C6	2.56	0.41
36:BA:483:A:OP2	36:BA:484:C:N4	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:614(C):A:H4'	36:BA:615:G:OP1	2.20	0.41
36:BA:668:G:H2'	36:BA:670:A:H62	1.85	0.41
36:BA:780:G:C2	36:BA:782:A:C2	3.08	0.41
36:BA:1142(A):A:H8	36:BA:1142(A):A:H5'	1.86	0.41
36:BA:1317:A:C2	36:BA:1336:A:C2	3.09	0.41
36:BA:1614:A:H61	55:BW:87:PRO:HA	1.86	0.41
36:BA:1720:U:C2'	36:BA:1721:G:H5''	2.50	0.41
36:BA:1818:U:H2'	39:BD:157:ARG:CD	2.50	0.41
36:BA:1838:C:C6	36:BA:1898:U:C5	3.09	0.41
36:BA:1948:G:C6	36:BA:1949:G:C5	3.08	0.41
36:BA:2078:C:O2'	36:BA:2079:U:H5'	2.20	0.41
36:BA:2133:G:C8	36:BA:2133:G:C3'	3.03	0.41
36:BA:2379:G:H2'	36:BA:2380:C:H6	1.78	0.41
36:BA:2416:C:H5''	48:BP:64:LYS:NZ	2.36	0.41
36:BA:2539:C:C2	36:BA:2540:C:C5	3.09	0.41
36:BA:2572:A:P	40:BE:144:ARG:HB2	2.60	0.41
36:BA:2584:U:O2	36:BA:2584:U:O4'	2.38	0.41
38:BC:192:PHE:O	38:BC:195:ALA:N	2.54	0.41
38:BC:222:VAL:O	38:BC:224:ILE:HG23	2.20	0.41
39:BD:210:GLY:C	39:BD:212:SER:H	2.24	0.41
40:BE:1:MET:H2	40:BE:84:PHE:HB2	1.84	0.41
40:BE:8:LYS:O	40:BE:193:GLY:N	2.53	0.41
40:BE:154:LYS:HD2	40:BE:154:LYS:HA	1.90	0.41
40:BE:176:ILE:CG2	40:BE:178:GLU:HB3	2.51	0.41
41:BF:39:TRP:O	41:BF:42:ALA:HB3	2.20	0.41
41:BF:72:ARG:NH1	41:BF:72:ARG:CA	2.76	0.41
41:BF:78:ILE:HA	41:BF:83:PHE:CE1	2.56	0.41
42:BG:36:LYS:CG	42:BG:94:LEU:O	2.69	0.41
42:BG:45:GLU:O	42:BG:47:LYS:N	2.47	0.41
42:BG:54:GLU:C	42:BG:56:ALA:N	2.73	0.41
46:BN:21:LYS:O	46:BN:61:ARG:HB2	2.19	0.41
46:BN:35:ARG:O	46:BN:37:LYS:N	2.53	0.41
47:BO:2:ILE:HG22	47:BO:3:GLN:N	2.35	0.41
49:BQ:6:ARG:O	49:BQ:7:MET:CG	2.65	0.41
52:BT:57:PHE:C	52:BT:57:PHE:CD2	2.92	0.41
52:BT:66:VAL:HG12	52:BT:70:VAL:O	2.20	0.41
53:BU:34:LYS:O	53:BU:35:ALA:C	2.59	0.41
56:BX:61:GLY:O	56:BX:62:LYS:O	2.38	0.41
57:BY:62:GLU:HB3	57:BY:63:LYS:H	1.73	0.41
58:BZ:103:ARG:CZ	58:BZ:136:PHE:CE1	3.03	0.41
58:BZ:150:LEU:HD23	58:BZ:150:LEU:C	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:106:C:H2'	1:CA:107:G:H5'	1.99	0.41
1:CA:127:G:H2'	1:CA:128:G:H8	1.84	0.41
1:CA:297:G:H4'	1:CA:557:G:H4'	2.02	0.41
1:CA:328:C:O2	1:CA:328:C:C2'	2.68	0.41
1:CA:375:U:H2'	1:CA:376:G:C8	2.54	0.41
1:CA:381:C:O2'	1:CA:382:A:H5'	2.21	0.41
1:CA:668:G:C2	1:CA:739:C:C2	3.08	0.41
1:CA:761:G:H8	1:CA:761:G:O5'	2.04	0.41
1:CA:849:C:O2'	1:CA:850:U:H5'	2.21	0.41
1:CA:906:G:H8	1:CA:906:G:O5'	2.03	0.41
1:CA:993:G:C2	1:CA:1046:A:N3	2.89	0.41
1:CA:1001(A):G:O2'	1:CA:1002:G:H5'	2.21	0.41
1:CA:1055:A:N6	1:CA:1206:G:C6	2.89	0.41
1:CA:1148:U:O2'	1:CA:1149:C:H5'	2.19	0.41
1:CA:1327:C:OP1	21:CU:20:LYS:N	2.44	0.41
1:CA:1418:A:H2	36:DA:1948:G:N3	2.17	0.41
1:CA:1495:U:OP1	13:CM:125:ARG:HD3	2.20	0.41
4:CD:11:LEU:O	4:CD:13:ARG:O	2.38	0.41
4:CD:106:TYR:HE1	4:CD:113:SER:HA	1.86	0.41
4:CD:155:LEU:HD23	4:CD:155:LEU:HA	1.88	0.41
6:CF:37:VAL:C	6:CF:38:GLU:HG3	2.40	0.41
7:CG:72:ARG:N	7:CG:142:GLU:OE1	2.53	0.41
8:CH:114:THR:HG22	8:CH:130:GLY:O	2.21	0.41
9:CI:76:ALA:O	9:CI:79:LEU:N	2.42	0.41
13:CM:44:ARG:C	13:CM:46:LYS:N	2.73	0.41
13:CM:75:ALA:O	13:CM:78:ILE:N	2.54	0.41
14:CN:57:ARG:CB	14:CN:57:ARG:NH1	2.64	0.41
15:CO:11:VAL:O	15:CO:12:ILE:C	2.57	0.41
17:CQ:29:HIS:CE1	17:CQ:32:TYR:H	2.33	0.41
18:CR:71:LYS:O	18:CR:74:ARG:HB2	2.21	0.41
20:CT:12:ALA:C	20:CT:14:LYS:N	2.73	0.41
20:CT:36:LEU:CD1	20:CT:36:LEU:C	2.89	0.41
24:CZ:65:C:H5''	25:CZ:341:GLN:HG2	2.03	0.41
26:D0:25:ARG:C	26:D0:26:TYR:CD1	2.94	0.41
26:D0:46:LYS:O	26:D0:47:PRO:O	2.38	0.41
27:D1:7:ILE:HD12	27:D1:70:VAL:HG22	2.02	0.41
27:D1:25:LYS:CB	36:DA:388:G:H5'	2.51	0.41
29:D3:37:LEU:O	29:D3:38:GLU:O	2.38	0.41
31:D5:6:VAL:H	36:DA:2056:G:H21	1.67	0.41
34:D8:58:ILE:HG22	34:D8:58:ILE:O	2.20	0.41
36:DA:179:G:C2	36:DA:180:G:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:327:G:N2	36:DA:336:C:N3	2.69	0.41
36:DA:666:G:H2'	36:DA:667:U:C5	2.55	0.41
36:DA:841:A:N1	36:DA:938:G:C6	2.88	0.41
36:DA:1070:A:N6	36:DA:1096:A:H2	2.19	0.41
36:DA:1145:C:C2	36:DA:1146:C:H5	2.38	0.41
36:DA:1228:G:N2	36:DA:1229:G:C4	2.89	0.41
36:DA:1324:G:C2	36:DA:1328:G:N1	2.89	0.41
36:DA:1387:C:C4	36:DA:1401:G:N2	2.89	0.41
36:DA:1561:G:O2'	36:DA:1562:A:H5'	2.21	0.41
36:DA:1624:G:C5	36:DA:1625:C:C5	3.09	0.41
36:DA:1652:A:N6	36:DA:1653:G:N2	2.69	0.41
36:DA:1747:G:H2'	36:DA:1747(A):G:H8	1.86	0.41
36:DA:2106:G:H2'	36:DA:2107:C:O4'	2.20	0.41
36:DA:2175:C:N3	36:DA:2176:A:N1	2.68	0.41
36:DA:2202:C:H2'	36:DA:2203:U:O4'	2.21	0.41
36:DA:2299:G:O2'	36:DA:2300:G:H5'	2.21	0.41
36:DA:2458:G:C4	36:DA:2490:G:C2	3.09	0.41
36:DA:2517:C:C4	36:DA:2542:A:N1	2.89	0.41
36:DA:2712(A):A:H5''	36:DA:2713:A:OP2	2.21	0.41
37:DB:104:U:O3'	58:DZ:72:ARG:NH1	2.53	0.41
38:DC:47:LEU:N	38:DC:47:LEU:CD1	2.82	0.41
38:DC:199:HIS:O	38:DC:201:PRO:N	2.53	0.41
39:DD:239:ARG:O	39:DD:240:ALA:HB2	2.21	0.41
40:DE:24:THR:N	40:DE:184:VAL:O	2.52	0.41
41:DF:110:LEU:HD11	41:DF:181:LEU:HD23	2.02	0.41
42:DG:39:ILE:HG22	42:DG:157:ILE:HG23	2.03	0.41
42:DG:39:ILE:HG22	42:DG:157:ILE:CG1	2.47	0.41
42:DG:121:ASN:HD21	42:DG:124:SER:HA	1.85	0.41
43:DH:64:LEU:HA	43:DH:67:LEU:CD2	2.50	0.41
43:DH:66:GLY:CA	43:DH:69:ARG:HB3	2.50	0.41
43:DH:106:THR:HG22	43:DH:112:PRO:HA	2.03	0.41
48:DP:18:ARG:O	48:DP:20:GLY:N	2.54	0.41
49:DQ:19:GLY:HA2	58:DZ:79:ARG:HH22	1.86	0.41
50:DR:77:ARG:C	50:DR:79:LEU:N	2.74	0.41
50:DR:85:PRO:O	50:DR:87:TYR:N	2.53	0.41
52:DT:15:VAL:CG2	52:DT:16:ARG:N	2.82	0.41
53:DU:57:PHE:O	53:DU:58:ARG:C	2.58	0.41
56:DX:12:VAL:HG12	56:DX:27:THR:H	1.86	0.41
57:DY:67:LEU:CG	57:DY:68:HIS:H	2.34	0.41
58:DZ:28:MET:HA	58:DZ:88:PHE:CB	2.46	0.41
1:AA:55:A:C2'	25:AZ:232:THR:HG21	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:66:G:N2	1:AA:172:A:C2	2.89	0.41
1:AA:90:U:O2'	1:AA:91:C:H5	2.03	0.41
1:AA:109:A:C4	1:AA:327:A:C2	3.08	0.41
1:AA:119:A:H5''	1:AA:120:A:C5'	2.50	0.41
1:AA:248:C:N3	1:AA:277:C:N3	2.68	0.41
1:AA:344:A:H3'	1:AA:346:G:O6	2.20	0.41
1:AA:404:U:H5'	4:AD:122:ARG:CD	2.49	0.41
1:AA:439:A:C8	1:AA:496:A:C2	3.08	0.41
1:AA:529:G:O6	12:AL:49:ASN:CB	2.69	0.41
1:AA:597:G:C8	1:AA:598:U:C5	3.08	0.41
1:AA:628:G:H2'	1:AA:629:G:C8	2.55	0.41
1:AA:742:G:H5''	15:AO:58:MET:CE	2.42	0.41
1:AA:887:G:N3	1:AA:887:G:H2'	2.35	0.41
1:AA:924:C:O2'	1:AA:925:G:H5'	2.20	0.41
1:AA:956:U:C2'	1:AA:957:U:H5'	2.50	0.41
1:AA:1163:C:N3	1:AA:1174:G:C2	2.88	0.41
1:AA:1280:A:O2'	1:AA:1281:U:P	2.79	0.41
1:AA:1467:G:O5'	1:AA:1467:G:H8	2.04	0.41
1:AA:1487:G:H2'	1:AA:1488:G:C5'	2.51	0.41
4:AD:102:ASP:HB3	4:AD:121:VAL:HG21	2.02	0.41
8:AH:49:GLU:O	8:AH:50:ARG:C	2.59	0.41
12:AL:6:THR:HG1	12:AL:9:GLN:HG3	1.85	0.41
15:AO:3:ILE:HD12	15:AO:34:LEU:HD21	2.03	0.41
19:AS:43:GLU:O	19:AS:45:VAL:N	2.53	0.41
22:AV:20:U:C3'	22:AV:21:A:C5'	2.90	0.41
22:AW:54:U:H2'	22:AW:55:U:H5'	2.03	0.41
24:AY:50:G:C6	24:AY:51:C:N4	2.88	0.41
24:AY:75:C:C6	25:AZ:230:THR:O	2.73	0.41
25:AZ:194:GLU:HB3	25:AZ:198:LYS:HZ1	1.85	0.41
27:B1:62:VAL:HG21	27:B1:67:ILE:HA	2.03	0.41
29:B3:7:LYS:O	29:B3:54:VAL:CA	2.63	0.41
30:B4:47:GLN:HE21	30:B4:47:GLN:HB3	1.73	0.41
31:B5:58:LEU:O	31:B5:59:GLU:HB3	2.20	0.41
32:B6:17:LYS:O	32:B6:18:ARG:HB3	2.20	0.41
32:B6:36:LEU:HD23	32:B6:37:ARG:N	2.35	0.41
34:B8:8:LYS:O	34:B8:12:LYS:HE3	2.20	0.41
36:BA:149:A:C2	36:BA:150:C:N3	2.88	0.41
36:BA:272(J):C:H3'	36:BA:274:G:H5''	2.03	0.41
36:BA:355:G:H2'	36:BA:356:G:H8	1.86	0.41
36:BA:1005:C:H2'	36:BA:1006:C:C5	2.54	0.41
36:BA:1051:G:H2'	36:BA:1052:C:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1192:G:O5'	36:BA:1192:G:C8	2.73	0.41
36:BA:1558:A:H1'	36:BA:1559:G:OP2	2.21	0.41
36:BA:1677:A:C2'	36:BA:1678:G:C8	2.94	0.41
36:BA:1678:G:H22	36:BA:1989:G:H1	1.67	0.41
36:BA:1800:C:OP1	39:BD:264:LYS:HE2	2.21	0.41
36:BA:1801:G:O2'	36:BA:1802:A:H5''	2.20	0.41
36:BA:1829:A:N3	39:BD:15:PHE:HZ	2.17	0.41
36:BA:2050:C:C4	36:BA:2051:A:C6	3.08	0.41
36:BA:2115:G:H5'	36:BA:2167:U:O2'	2.21	0.41
36:BA:2166:G:O2'	36:BA:2167:U:H5'	2.21	0.41
36:BA:2259:G:N2	36:BA:2282:G:C2	2.89	0.41
36:BA:2283:C:C5	36:BA:2389:G:C2'	3.03	0.41
36:BA:2371:G:N2	36:BA:2372:G:C4	2.88	0.41
36:BA:2481:G:O2'	36:BA:2482:G:P	2.78	0.41
36:BA:2732:G:C2'	36:BA:2733:A:H5'	2.51	0.41
36:BA:2754:U:H2'	36:BA:2756:U:P	2.61	0.41
36:BA:2870:C:H2'	36:BA:2871:C:C5'	2.50	0.41
37:BB:117:G:H5'	51:BS:55:ALA:HB1	2.01	0.41
38:BC:6:ARG:CZ	38:BC:34:THR:HB	2.51	0.41
39:BD:110:GLY:O	39:BD:111:LEU:C	2.59	0.41
39:BD:134:ARG:NE	39:BD:135:PHE:HE1	2.18	0.41
39:BD:238:GLY:O	39:BD:239:ARG:HB3	2.20	0.41
40:BE:167:VAL:CG1	40:BE:189:PRO:HD2	2.50	0.41
41:BF:117:ARG:CG	41:BF:192:LEU:HD13	2.47	0.41
41:BF:162:LEU:HD12	41:BF:162:LEU:N	2.33	0.41
42:BG:39:ILE:HG22	42:BG:157:ILE:HG12	2.01	0.41
42:BG:46:ALA:HA	42:BG:51:ARG:HB3	2.03	0.41
42:BG:166:ASP:O	42:BG:167:GLU:C	2.58	0.41
48:BP:85:LEU:HD11	48:BP:137:LYS:HD3	2.03	0.41
50:BR:76:VAL:O	50:BR:79:LEU:HB3	2.20	0.41
51:BS:40:ILE:HG22	51:BS:47:THR:HA	2.03	0.41
55:BW:14:PRO:O	55:BW:15:ARG:C	2.59	0.41
57:BY:12:THR:OG1	57:BY:26:LYS:HA	2.20	0.41
58:BZ:7:ALA:HA	58:BZ:39:VAL:HG12	2.02	0.41
58:BZ:158:PRO:HD2	58:BZ:161:VAL:HB	2.01	0.41
1:CA:15:G:H2'	1:CA:16:A:H8	1.86	0.41
1:CA:130:A:H1'	1:CA:263:A:O2'	2.21	0.41
1:CA:295:C:C2	1:CA:296:U:C6	3.09	0.41
1:CA:357:G:OP1	1:CA:366:C:O2'	2.32	0.41
1:CA:404:U:P	4:CD:122:ARG:HD3	2.61	0.41
1:CA:488:C:O2'	1:CA:489:C:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:734:G:H2'	1:CA:735:C:H6	1.84	0.41
1:CA:969:A:H2'	1:CA:970:C:O4'	2.21	0.41
1:CA:1308:U:O2'	1:CA:1309:G:C5'	2.68	0.41
1:CA:1334:G:H5'	1:CA:1335:C:OP2	2.21	0.41
1:CA:1344:C:H2'	1:CA:1345:U:H5'	2.03	0.41
1:CA:1348:U:H5'	1:CA:1348:U:H6	1.86	0.41
1:CA:1422:G:N2	1:CA:1423:G:C4	2.89	0.41
1:CA:1487:G:O2'	1:CA:1488:G:H5'	2.21	0.41
3:CC:84:ILE:O	3:CC:84:ILE:HG12	2.21	0.41
4:CD:17:VAL:O	4:CD:18:LYS:C	2.59	0.41
4:CD:79:PHE:CA	4:CD:93:PHE:HE2	2.33	0.41
6:CF:71:ARG:HG3	6:CF:71:ARG:NH1	2.36	0.41
7:CG:152:ALA:O	7:CG:155:ARG:HG3	2.20	0.41
8:CH:9:MET:HE3	8:CH:36:LEU:HD21	2.03	0.41
9:CI:94:ALA:O	9:CI:95:LYS:HB3	2.20	0.41
10:CJ:7:LYS:HG2	10:CJ:71:LEU:HB2	2.03	0.41
10:CJ:12:ASP:C	10:CJ:14:LYS:N	2.73	0.41
10:CJ:89:ASP:O	10:CJ:90:LEU:CB	2.60	0.41
11:CK:48:ILE:HG22	11:CK:49:GLY:H	1.85	0.41
13:CM:40:ASN:HA	13:CM:41:PRO:HD3	1.79	0.41
15:CO:3:ILE:CD1	15:CO:34:LEU:HD21	2.50	0.41
15:CO:17:ARG:HH12	15:CO:77:ARG:NH2	2.19	0.41
18:CR:59:SER:O	18:CR:62:GLU:N	2.53	0.41
25:CZ:122:LEU:HA	25:CZ:125:GLN:HG3	2.02	0.41
25:CZ:284:ASP:OD1	25:CZ:284:ASP:N	2.54	0.41
25:CZ:316:PHE:CD2	25:CZ:400:VAL:HG13	2.55	0.41
26:D0:48:GLY:CA	26:D0:51:VAL:HB	2.51	0.41
28:D2:5:GLU:C	28:D2:9:GLN:OE1	2.59	0.41
28:D2:20:GLU:HG3	28:D2:21:LEU:N	2.36	0.41
31:D5:6:VAL:O	31:D5:6:VAL:CG1	2.69	0.41
33:D7:15:THR:O	33:D7:16:HIS:CG	2.73	0.41
36:DA:27:G:N2	36:DA:513:A:OP2	2.54	0.41
36:DA:99:U:H4'	36:DA:102:G:H1'	2.01	0.41
36:DA:179:G:N1	36:DA:180:G:C5	2.89	0.41
36:DA:355:G:H2'	36:DA:356:G:H8	1.86	0.41
36:DA:445:C:O2'	36:DA:446:G:O4'	2.38	0.41
36:DA:693:C:N4	36:DA:769:G:H1	2.18	0.41
36:DA:883:G:N2	36:DA:893:C:N3	2.68	0.41
36:DA:889:C:O2'	36:DA:890:A:P	2.78	0.41
36:DA:1192:G:O2'	36:DA:1193:G:H5'	2.21	0.41
36:DA:1223:G:C5	36:DA:1225:G:OP2	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1248:G:O5'	41:DF:92:PRO:HG3	2.20	0.41
36:DA:1431:U:C2'	36:DA:1432:C:C5'	2.98	0.41
36:DA:1478:G:H2'	36:DA:1479:G:C8	2.55	0.41
36:DA:2106:G:C6	36:DA:2184:G:C6	3.08	0.41
36:DA:2126:A:O2'	36:DA:2127:G:OP2	2.39	0.41
36:DA:2166:G:H2'	36:DA:2167:U:C6	2.55	0.41
36:DA:2361:A:H2'	36:DA:2362:G:C8	2.49	0.41
36:DA:2435:A:C4	36:DA:2436:G:C8	3.08	0.41
36:DA:2476:A:H2'	36:DA:2476:A:N3	2.35	0.41
36:DA:2517:C:HO2'	36:DA:2519:U:H5	1.68	0.41
36:DA:2579:C:C4'	40:DE:134:ILE:HG12	2.51	0.41
36:DA:2625:G:H2'	36:DA:2626:C:O4'	2.21	0.41
36:DA:2634:G:O2'	36:DA:2635:C:H5'	2.21	0.41
36:DA:2711:A:OP1	36:DA:2712(A):A:OP1	2.38	0.41
36:DA:2740:A:C6	36:DA:2764:A:C8	3.09	0.41
37:DB:17:C:O2'	37:DB:18:G:H5'	2.20	0.41
39:DD:79:VAL:HG11	39:DD:113:VAL:HA	2.01	0.41
39:DD:91:ARG:HG2	39:DD:91:ARG:NH1	2.27	0.41
39:DD:142:VAL:HG21	39:DD:191:ALA:HB1	2.00	0.41
39:DD:244:ARG:HG2	39:DD:245:PRO:CB	2.50	0.41
40:DE:167:VAL:HG13	40:DE:170:LEU:CD1	2.30	0.41
41:DF:49:ALA:HB1	41:DF:92:PRO:CB	2.50	0.41
42:DG:15:VAL:HG12	42:DG:19:LEU:HD11	2.00	0.41
42:DG:85:GLY:O	42:DG:87:PRO:CD	2.68	0.41
45:DK:73:UNK:C	45:DK:75:UNK:N	2.79	0.41
46:DN:39:ARG:N	53:DU:67:ALA:HB1	2.35	0.41
46:DN:91:LEU:O	46:DN:95:PRO:HB3	2.21	0.41
47:DO:8:LEU:HD22	47:DO:19:ILE:CG1	2.51	0.41
48:DP:69:GLY:O	48:DP:70:GLN:C	2.58	0.41
48:DP:71:VAL:H	48:DP:72:PRO:CD	2.33	0.41
48:DP:84:ASN:O	48:DP:86:LYS:N	2.54	0.41
48:DP:147:LEU:O	48:DP:148:LEU:CB	2.69	0.41
49:DQ:77:LYS:HB3	49:DQ:81:VAL:HG11	2.02	0.41
49:DQ:129:THR:HB	49:DQ:130:LYS:H	1.74	0.41
55:DW:32:ALA:O	55:DW:36:LEU:HD23	2.20	0.41
55:DW:72:LYS:CE	55:DW:108:GLY:HA3	2.48	0.41
55:DW:104:THR:C	55:DW:105:VAL:CG2	2.88	0.41
57:DY:8:LYS:HE2	57:DY:72:VAL:HG23	2.03	0.41
58:DZ:33:LEU:HD11	58:DZ:35:ARG:HB2	2.02	0.41
58:DZ:86:VAL:C	58:DZ:87:ASP:OD1	2.59	0.41
1:AA:45:U:H2'	1:AA:46:G:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:102:G:C6	1:AA:103:C:C5	3.09	0.41
1:AA:115:G:O2'	1:AA:116:A:OP2	2.39	0.41
1:AA:246:A:O3'	1:AA:247:G:C4'	2.69	0.41
1:AA:677:U:O2'	1:AA:678:U:H5'	2.21	0.41
1:AA:728:A:C5	15:AO:54:ARG:HG3	2.56	0.41
1:AA:754:C:H3'	1:AA:754:C:O2	2.20	0.41
1:AA:1065:U:O4	1:AA:1189:C:H2'	2.20	0.41
1:AA:1148:U:H4'	9:AI:14:VAL:CG1	2.48	0.41
1:AA:1220:G:C4	1:AA:1221:G:C8	3.09	0.41
1:AA:1372:U:H2'	1:AA:1373:G:C5'	2.51	0.41
1:AA:1386:G:N2	1:AA:1387:G:C5	2.88	0.41
2:AB:36:ARG:HA	2:AB:36:ARG:CZ	2.50	0.41
3:AC:30:ARG:HD3	14:AN:38:GLY:HA3	2.02	0.41
3:AC:84:ILE:O	3:AC:88:ARG:HG3	2.20	0.41
3:AC:177:THR:HG22	3:AC:180:ALA:H	1.86	0.41
6:AF:14:LEU:HD12	6:AF:19:LEU:HB2	2.02	0.41
6:AF:48:LEU:HD23	6:AF:48:LEU:HA	1.78	0.41
7:AG:71:PRO:HB3	7:AG:138:LYS:HG3	2.02	0.41
8:AH:6:ILE:C	8:AH:8:ASP:N	2.74	0.41
8:AH:82:HIS:C	8:AH:83:ILE:HG22	2.40	0.41
9:AI:46:ALA:CB	9:AI:74:ILE:HG23	2.51	0.41
13:AM:23:TYR:HB3	13:AM:67:GLU:CB	2.50	0.41
13:AM:75:ALA:O	13:AM:78:ILE:HB	2.21	0.41
13:AM:108:ARG:NH1	13:AM:108:ARG:CG	2.82	0.41
14:AN:15:LYS:O	14:AN:16:PHE:O	2.38	0.41
16:AP:50:LYS:C	16:AP:51:VAL:HG23	2.41	0.41
18:AR:85:LEU:HD12	18:AR:86:VAL:N	2.35	0.41
19:AS:16:LEU:H	19:AS:16:LEU:CD1	2.18	0.41
23:AX:22:A:C5	23:AX:23:C:C5	3.08	0.41
27:B1:58:ILE:O	27:B1:59:THR:HG23	2.20	0.41
30:B4:5:ILE:O	42:BG:67:LYS:HG3	2.20	0.41
31:B5:34:PRO:HG3	36:BA:2885:C:O2'	2.20	0.41
33:B7:7:PRO:HA	36:BA:686:G:C8	2.55	0.41
34:B8:32:LEU:HD22	36:BA:2392:A:OP1	2.21	0.41
36:BA:18:C:O3'	53:BU:23:GLY:CA	2.68	0.41
36:BA:84:A:N6	36:BA:102:G:O2'	2.54	0.41
36:BA:179:G:N1	36:BA:180:G:C5	2.89	0.41
36:BA:321:G:C4	41:BF:165:ARG:HD3	2.56	0.41
36:BA:329:G:H4'	36:BA:330:A:OP2	2.21	0.41
36:BA:371:A:C6	36:BA:401:A:C8	3.08	0.41
36:BA:483:A:C1'	57:BY:60:PHE:HZ	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:621:A:H2'	36:BA:622:G:C4'	2.51	0.41
36:BA:784:A:N6	39:BD:229:VAL:HG11	2.35	0.41
36:BA:1106:G:C6	36:BA:1107:G:N3	2.89	0.41
36:BA:1206:G:C2	36:BA:1207:C:C6	3.09	0.41
36:BA:1578:U:H2'	36:BA:1579:A:C5'	2.35	0.41
36:BA:1637:A:H4'	36:BA:2711:A:O2'	2.21	0.41
36:BA:1701:A:H8	36:BA:1701:A:H5''	1.86	0.41
36:BA:1714:G:C5	36:BA:1746:G:C6	3.09	0.41
36:BA:1934:C:O2'	36:BA:1974:C:H5''	2.21	0.41
36:BA:2007:C:O5'	36:BA:2007:C:H6	2.02	0.41
36:BA:2086:U:H2'	36:BA:2087:G:C8	2.55	0.41
36:BA:2152:G:N3	36:BA:2153:G:C8	2.89	0.41
36:BA:2261:C:C1'	36:BA:2388:A:H1'	2.51	0.41
36:BA:2415:G:H2'	36:BA:2416:C:C6	2.56	0.41
36:BA:2543:G:H2'	36:BA:2544:G:C8	2.56	0.41
36:BA:2658:C:C5	36:BA:2659:G:N7	2.89	0.41
36:BA:2698:U:C4	36:BA:2699:C:N4	2.88	0.41
36:BA:2856:C:H2'	36:BA:2857:G:C5'	2.51	0.41
39:BD:276:LYS:OXT	39:BD:276:LYS:HD3	2.21	0.41
42:BG:39:ILE:HG12	42:BG:92:VAL:CG1	2.51	0.41
42:BG:168:GLU:O	42:BG:170:ARG:N	2.53	0.41
43:BH:94:TYR:CE1	43:BH:108:GLY:N	2.89	0.41
43:BH:150:ALA:O	43:BH:151:ILE:C	2.58	0.41
46:BN:10:GLU:OE2	46:BN:11:PRO:HD2	2.20	0.41
46:BN:67:LEU:O	46:BN:68:GLU:HG3	2.20	0.41
48:BP:16:ARG:CG	48:BP:17:LYS:N	2.84	0.41
49:BQ:42:ILE:O	49:BQ:42:ILE:HG23	2.21	0.41
49:BQ:50:ALA:O	49:BQ:54:MET:HB2	2.20	0.41
49:BQ:63:LYS:HE3	49:BQ:65:PHE:CE1	2.55	0.41
51:BS:13:ARG:O	51:BS:14:VAL:HB	2.20	0.41
51:BS:14:VAL:O	51:BS:16:ASN:N	2.54	0.41
51:BS:25:ARG:HD2	51:BS:88:ASP:OD1	2.21	0.41
51:BS:40:ILE:HG22	51:BS:46:VAL:O	2.21	0.41
51:BS:89:ARG:HB3	51:BS:92:TYR:HB3	2.03	0.41
52:BT:36:GLU:O	52:BT:38:ASN:N	2.54	0.41
57:BY:51:VAL:C	57:BY:53:PRO:HD3	2.41	0.41
58:BZ:94:GLU:HA	58:BZ:95:PRO:HD2	1.78	0.41
1:CA:71:C:H2'	1:CA:72:C:H6	1.86	0.41
1:CA:81:U:N3	1:CA:83:U:H5	2.19	0.41
1:CA:156:G:H1'	1:CA:166:G:H22	1.85	0.41
1:CA:306:G:C2'	1:CA:307:C:H5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:322:C:C5	1:CA:323:U:C5	3.09	0.41
1:CA:409:G:OP1	4:CD:22:LYS:O	2.38	0.41
1:CA:505:G:H2'	1:CA:506:G:C8	2.55	0.41
1:CA:510:A:N3	1:CA:543:C:H1'	2.36	0.41
1:CA:583:A:H2'	1:CA:584:G:O4'	2.21	0.41
1:CA:630:G:C3'	1:CA:631:G:H5'	2.51	0.41
1:CA:668:G:O4'	15:CO:49:ASP:HB2	2.21	0.41
1:CA:728:A:C5	15:CO:54:ARG:HG3	2.55	0.41
1:CA:982:U:HO2'	1:CA:983:A:P	2.44	0.41
1:CA:1045:C:O2	1:CA:1045:C:C2'	2.64	0.41
1:CA:1217:C:P	14:CN:9:LYS:HZ1	2.43	0.41
1:CA:1339:A:C2	22:CV:31:A:C4'	3.03	0.41
1:CA:1484:C:H2'	1:CA:1485:U:O4'	2.20	0.41
1:CA:1528:U:H4'	1:CA:1529:G:O5'	2.20	0.41
2:CB:233:SER:O	2:CB:235:SER:N	2.53	0.41
4:CD:59:ARG:HE	4:CD:59:ARG:CA	2.34	0.41
7:CG:22:LEU:HD22	7:CG:62:PHE:HE2	1.85	0.41
10:CJ:8:LEU:HD12	10:CJ:8:LEU:N	2.36	0.41
10:CJ:46:ARG:O	10:CJ:47:PHE:CD1	2.73	0.41
11:CK:30:VAL:HG21	11:CK:65:ALA:HA	2.03	0.41
11:CK:30:VAL:HG23	11:CK:30:VAL:O	2.20	0.41
12:CL:83:VAL:CG1	12:CL:84:LEU:H	2.31	0.41
19:CS:9:VAL:CG1	19:CS:39:THR:HB	2.50	0.41
22:CV:41:C:C2'	22:CV:42:C:H5'	2.51	0.41
25:CZ:222:LEU:HA	25:CZ:304:LEU:O	2.21	0.41
25:CZ:271:GLU:CG	25:CZ:276:THR:HA	2.43	0.41
26:D0:58:THR:CG2	26:D0:59:LEU:N	2.84	0.41
27:D1:63:ALA:HB3	27:D1:66:HIS:HB3	2.02	0.41
29:D3:50:VAL:C	29:D3:52:HIS:N	2.73	0.41
30:D4:33:VAL:HG13	30:D4:34:GLU:N	2.35	0.41
31:D5:40:LYS:HB3	31:D5:46:CYS:SG	2.61	0.41
32:D6:15:GLU:OE2	32:D6:18:ARG:NH2	2.53	0.41
34:D8:61:LEU:H	34:D8:61:LEU:HG	1.50	0.41
35:D9:1:MET:HA	35:D9:4:ARG:NH2	2.35	0.41
36:DA:84:A:N6	36:DA:102:G:O2'	2.53	0.41
36:DA:271(M):G:O2'	36:DA:271(O):C:H5'	2.21	0.41
36:DA:294:A:C6	36:DA:345:A:N1	2.88	0.41
36:DA:332:A:O2'	36:DA:333:G:P	2.79	0.41
36:DA:831:G:H8	36:DA:831:G:O5'	2.04	0.41
36:DA:954:G:N3	36:DA:2274:A:C2	2.88	0.41
36:DA:1028:A:OP2	36:DA:1126:A:N6	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1242:A:H3'	36:DA:1243:G:C8	2.51	0.41
36:DA:1632:A:O5'	36:DA:1632:A:H8	2.04	0.41
36:DA:1818:U:H2'	39:DD:157:ARG:CD	2.51	0.41
36:DA:1839:G:H8	36:DA:1839:G:H5'	1.86	0.41
36:DA:2077:A:H1'	36:DA:2435:A:C1'	2.51	0.41
36:DA:2152:G:H2'	36:DA:2153:G:H8	1.84	0.41
36:DA:2239:G:H2'	36:DA:2240:C:H6	1.86	0.41
36:DA:2850:A:N6	36:DA:2869:G:H5'	2.36	0.41
37:DB:35:U:H2'	37:DB:36:C:C6	2.55	0.41
37:DB:105:A:C2	37:DB:106:G:H1'	2.56	0.41
39:DD:39:LYS:HD3	39:DD:60:ARG:HB3	2.03	0.41
39:DD:43:ARG:HB3	39:DD:54:ARG:HB3	2.03	0.41
39:DD:208:LYS:HB2	39:DD:209:ALA:H	1.74	0.41
39:DD:242:ARG:HB2	39:DD:243:GLY:H	1.62	0.41
41:DF:178:PRO:HB3	41:DF:201:VAL:HG11	2.00	0.41
41:DF:182:ASN:OD1	41:DF:185:ASP:CB	2.69	0.41
42:DG:42:GLY:O	42:DG:88:ILE:HG22	2.21	0.41
42:DG:64:THR:OG1	42:DG:94:LEU:HD21	2.21	0.41
42:DG:172:LEU:O	42:DG:176:LEU:HD12	2.21	0.41
43:DH:85:LYS:NZ	43:DH:133:VAL:H	1.95	0.41
43:DH:97:ARG:O	43:DH:103:LEU:HD12	2.21	0.41
46:DN:35:ARG:NH2	46:DN:42:TRP:CH2	2.87	0.41
48:DP:136:GLU:HA	48:DP:136:GLU:OE1	2.20	0.41
49:DQ:34:LEU:HA	49:DQ:130:LYS:O	2.21	0.41
49:DQ:43:THR:HG1	49:DQ:46:GLN:HG3	1.83	0.41
50:DR:63:ARG:HG3	50:DR:63:ARG:HH11	1.86	0.41
51:DS:88:ASP:CG	51:DS:89:ARG:N	2.75	0.41
53:DU:20:LEU:CD2	53:DU:20:LEU:N	2.76	0.41
53:DU:69:CYS:O	53:DU:74:LEU:HD12	2.21	0.41
54:DV:58:VAL:CG1	54:DV:59:ALA:N	2.84	0.41
54:DV:58:VAL:HB	54:DV:98:GLU:H	1.85	0.41
57:DY:16:ALA:HA	57:DY:21:LYS:HA	2.03	0.41
1:AA:29:G:O2'	1:AA:295:C:H4'	2.20	0.41
1:AA:32:A:H1'	1:AA:48:C:N4	2.36	0.41
1:AA:39:G:C2'	1:AA:40:C:H5'	2.51	0.41
1:AA:52:G:C6	1:AA:53:A:C5	3.08	0.41
1:AA:106:C:H2'	1:AA:107:G:H5'	2.02	0.41
1:AA:120:A:H2'	1:AA:122:G:N7	2.36	0.41
1:AA:309:G:H1'	1:AA:608:A:C2	2.55	0.41
1:AA:311:C:O2'	1:AA:312:C:H5'	2.21	0.41
1:AA:316:G:OP2	1:AA:351:G:H2'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:510:A:N3	1:AA:543:C:H1'	2.36	0.41
1:AA:596:C:O2	1:AA:596:C:H2'	2.20	0.41
1:AA:642:A:H1'	8:AH:113:SER:HG	1.84	0.41
1:AA:658:G:C6	1:AA:749:C:N4	2.89	0.41
1:AA:704:A:C2'	1:AA:705:U:H5'	2.50	0.41
1:AA:731:G:O2'	1:AA:732:C:H5'	2.20	0.41
1:AA:745:C:H5''	1:AA:851:G:H1'	2.03	0.41
1:AA:763:G:H2'	1:AA:764:C:C6	2.55	0.41
1:AA:827:U:H2'	1:AA:859:A:N1	2.35	0.41
1:AA:833:U:H3	1:AA:853:G:H1	1.67	0.41
1:AA:949:A:C2	1:AA:1233:G:N3	2.89	0.41
1:AA:1004:A:O5'	1:AA:1025:U:C4	2.74	0.41
1:AA:1073:U:O2'	2:AB:104:ASN:ND2	2.54	0.41
1:AA:1081:G:H2'	1:AA:1082:G:C8	2.51	0.41
1:AA:1086:U:H2'	1:AA:1087:G:O5'	2.20	0.41
1:AA:1138:G:C6	1:AA:1140:C:C2	3.08	0.41
1:AA:1190:G:H5''	3:AC:3:ASN:ND2	2.36	0.41
1:AA:1274:G:O5'	1:AA:1274:G:H8	2.04	0.41
1:AA:1278:U:H5'	1:AA:1279:A:C8	2.56	0.41
1:AA:1282:C:C2	1:AA:1283:G:N7	2.88	0.41
1:AA:1313:U:C4	1:AA:1314:C:C4	3.09	0.41
1:AA:1358:U:H5''	14:AN:33:VAL:O	2.21	0.41
1:AA:1361:G:H2'	1:AA:1362:C:C6	2.56	0.41
1:AA:1394:A:N1	1:AA:1501:C:H5'	2.36	0.41
1:AA:1456:G:N2	1:AA:1457:G:C8	2.88	0.41
2:AB:47:THR:HG22	2:AB:51:LEU:CD1	2.51	0.41
2:AB:93:VAL:O	2:AB:93:VAL:CG1	2.69	0.41
2:AB:154:LEU:HD23	2:AB:156:LYS:HZ2	1.84	0.41
2:AB:194:PRO:CG	2:AB:195:ASP:H	2.32	0.41
2:AB:217:ARG:HA	2:AB:220:ASP:OD2	2.20	0.41
2:AB:224:GLN:O	2:AB:226:ARG:N	2.54	0.41
3:AC:25:GLY:O	3:AC:26:LYS:C	2.58	0.41
3:AC:32:LEU:CD2	3:AC:59:ARG:CZ	2.99	0.41
3:AC:44:GLU:O	3:AC:45:LYS:C	2.59	0.41
3:AC:56:ASP:C	3:AC:57:ILE:HG13	2.40	0.41
3:AC:142:MET:O	3:AC:144:SER:N	2.54	0.41
4:AD:10:ARG:NH1	4:AD:40:PRO:HG3	2.36	0.41
4:AD:19:LEU:HD12	4:AD:19:LEU:N	2.35	0.41
4:AD:72:GLU:HA	4:AD:72:GLU:OE2	2.20	0.41
4:AD:106:TYR:HE1	4:AD:113:SER:HA	1.85	0.41
4:AD:145:GLU:HG3	4:AD:184:LYS:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:31:LEU:HB2	5:AE:45:PHE:CD1	2.56	0.41
5:AE:79:GLU:H	5:AE:93:PRO:HD3	1.85	0.41
5:AE:84:PHE:C	5:AE:86:ALA:H	2.20	0.41
6:AF:37:VAL:O	6:AF:38:GLU:CG	2.69	0.41
7:AG:105:VAL:O	7:AG:108:ALA:N	2.54	0.41
7:AG:153:HIS:ND1	7:AG:153:HIS:N	2.66	0.41
8:AH:40:ALA:CB	8:AH:45:ILE:HG13	2.50	0.41
8:AH:92:ARG:CB	8:AH:94:TYR:HE1	2.33	0.41
8:AH:120:THR:H	8:AH:123:GLU:HB2	1.86	0.41
9:AI:82:ALA:O	9:AI:85:LEU:CD1	2.68	0.41
10:AJ:7:LYS:O	10:AJ:96:ILE:CA	2.63	0.41
11:AK:69:ALA:O	11:AK:70:LYS:C	2.57	0.41
11:AK:117:ASN:HD22	11:AK:117:ASN:HA	1.61	0.41
12:AL:23:LYS:C	12:AL:24:VAL:CG2	2.89	0.41
12:AL:70:ILE:HG12	12:AL:100:ILE:HD12	2.03	0.41
13:AM:109:THR:HG22	13:AM:110:ARG:N	2.35	0.41
14:AN:5:ALA:O	14:AN:6:LEU:C	2.59	0.41
15:AO:15:PHE:O	15:AO:27:VAL:HG22	2.20	0.41
15:AO:17:ARG:HH12	15:AO:77:ARG:NH2	2.18	0.41
16:AP:3:LYS:HB3	16:AP:65:GLN:O	2.21	0.41
16:AP:49:LEU:HD12	16:AP:49:LEU:C	2.41	0.41
16:AP:60:LEU:HD23	16:AP:64:ALA:HB3	2.03	0.41
17:AQ:16:GLN:HE21	17:AQ:16:GLN:HB2	1.66	0.41
17:AQ:37:LYS:HE3	17:AQ:37:LYS:HB2	1.96	0.41
19:AS:4:SER:O	19:AS:5:LEU:C	2.60	0.41
19:AS:9:VAL:CG1	19:AS:39:THR:HB	2.51	0.41
20:AT:50:GLU:C	20:AT:52:ALA:H	2.24	0.41
21:AU:5:ASP:C	21:AU:7:ARG:N	2.72	0.41
22:AV:44:G:C2'	22:AV:45:U:H5'	2.51	0.41
22:AV:74:C:N3	36:BA:2252:G:N2	2.65	0.41
24:AY:28:A:O2'	24:AY:29:C:H5'	2.21	0.41
25:AZ:19:HIS:CG	25:AZ:113:MET:HB3	2.55	0.41
25:AZ:201:GLU:O	25:AZ:205:ALA:CB	2.69	0.41
25:AZ:254:GLU:O	25:AZ:304:LEU:HA	2.20	0.41
25:AZ:325:LYS:HG3	25:AZ:331:HIS:CB	2.51	0.41
25:AZ:338:TYR:CE2	25:AZ:340:PRO:HD3	2.56	0.41
25:AZ:348:ASP:O	25:AZ:348:ASP:CG	2.58	0.41
25:AZ:355:LEU:HD21	25:AZ:370:PHE:HD2	1.84	0.41
25:AZ:382:GLU:HA	25:AZ:400:VAL:CG1	2.51	0.41
27:B1:5:CYS:O	27:B1:9:GLY:HA2	2.21	0.41
29:B3:18:ASP:HB2	36:BA:850:C:C4'	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B4:12:ALA:HB2	30:B4:29:PRO:HA	2.03	0.41
32:B6:45:LYS:O	32:B6:46:HIS:CB	2.69	0.41
32:B6:53:LYS:O	32:B6:54:ILE:HG22	2.21	0.41
35:B9:9:ARG:HH11	35:B9:9:ARG:HB2	1.85	0.41
36:BA:65:C:O2'	36:BA:66:C:H5'	2.21	0.41
36:BA:184:C:H2'	36:BA:185:U:C6	2.55	0.41
36:BA:244:A:O2'	48:BP:74:GLU:N	2.54	0.41
36:BA:267:C:H2'	36:BA:268:C:C6	2.55	0.41
36:BA:271(U):G:C2'	36:BA:271(V):G:H5'	2.51	0.41
36:BA:377:C:C2	36:BA:398:G:N1	2.89	0.41
36:BA:412:A:N3	36:BA:412:A:H2'	2.36	0.41
36:BA:460:A:H1'	36:BA:470:A:N6	2.36	0.41
36:BA:615:G:C6	36:BA:616:G:C6	3.08	0.41
36:BA:752:A:H4'	36:BA:753:C:O5'	2.21	0.41
36:BA:1037:G:C2	36:BA:1119:C:O2	2.74	0.41
36:BA:1106:G:C2	36:BA:1107:G:H1'	2.55	0.41
36:BA:1186:G:H2'	36:BA:1187:G:C5'	2.50	0.41
36:BA:1227:G:O2'	36:BA:1228:G:H5'	2.21	0.41
36:BA:1256:G:C2	36:BA:1257:C:C6	3.09	0.41
36:BA:1268:A:C4	36:BA:1269:A:C8	3.09	0.41
36:BA:1309:G:H1	36:BA:1605:C:N4	2.07	0.41
36:BA:1422:G:O2'	36:BA:1423:G:H5'	2.21	0.41
36:BA:1641:A:H2'	36:BA:1642:G:O4'	2.20	0.41
36:BA:1643:G:C2	36:BA:1644:C:C6	3.09	0.41
36:BA:1694:C:C1'	36:BA:1695:G:N2	2.82	0.41
36:BA:1773:A:C8	36:BA:1829:A:C8	3.09	0.41
36:BA:1779:U:H2'	36:BA:1783:A:H62	1.85	0.41
36:BA:1809:A:H2'	36:BA:1810:A:H8	1.81	0.41
36:BA:1829:A:N3	39:BD:15:PHE:CZ	2.89	0.41
36:BA:1886:C:O2'	36:BA:1887:C:H5'	2.21	0.41
36:BA:2057:A:H2'	36:BA:2058:A:C8	2.56	0.41
36:BA:2077:A:H1'	36:BA:2435:A:C1'	2.50	0.41
36:BA:2103:C:H2'	36:BA:2104:G:H5''	2.02	0.41
36:BA:2104:G:N1	36:BA:2105:C:N4	2.68	0.41
36:BA:2134:A:C2	36:BA:2135:A:N7	2.89	0.41
36:BA:2305:A:O2'	42:BG:136:ARG:CG	2.69	0.41
36:BA:2333:A:O4'	36:BA:2335:A:C4	2.74	0.41
36:BA:2468:G:C6	36:BA:2481:G:C4	3.09	0.41
36:BA:2485:G:C2'	36:BA:2486:G:H5'	2.51	0.41
36:BA:2606:C:O5'	36:BA:2606:C:H6	2.04	0.41
36:BA:2675:A:H5'	47:BO:31:LYS:HZ2	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BB:72:G:H1'	37:BB:106:G:N2	2.35	0.41
38:BC:20:TYR:H	38:BC:20:TYR:HD1	1.62	0.41
38:BC:100:ILE:H	38:BC:100:ILE:HG13	1.63	0.41
38:BC:110:PHE:O	38:BC:111:ASP:CB	2.69	0.41
38:BC:124:GLY:CA	38:BC:128:GLY:HA3	2.46	0.41
38:BC:151:GLU:HG2	38:BC:151:GLU:O	2.21	0.41
39:BD:79:VAL:HB	39:BD:114:GLY:H	1.86	0.41
39:BD:247:ALA:HA	39:BD:254:THR:HG22	2.03	0.41
40:BE:7:VAL:HG23	40:BE:193:GLY:O	2.20	0.41
40:BE:24:THR:HB	40:BE:184:VAL:HG23	2.01	0.41
40:BE:73:GLU:OE2	40:BE:73:GLU:N	2.54	0.41
40:BE:132:HIS:CD2	40:BE:135:HIS:NE2	2.88	0.41
41:BF:42:ALA:O	41:BF:45:ARG:HG3	2.21	0.41
41:BF:59:TYR:CD1	41:BF:78:ILE:HB	2.56	0.41
41:BF:126:VAL:HG11	41:BF:142:TRP:CH2	2.56	0.41
41:BF:170:LEU:O	41:BF:171:PRO:C	2.59	0.41
42:BG:43:LEU:HB3	42:BG:45:GLU:CG	2.38	0.41
42:BG:60:LEU:CD2	42:BG:63:ILE:HD11	2.45	0.41
42:BG:67:LYS:HA	42:BG:68:PRO:HD3	1.78	0.41
43:BH:24:VAL:CG1	43:BH:25:LYS:N	2.84	0.41
43:BH:52:VAL:HG12	43:BH:65:HIS:ND1	2.36	0.41
43:BH:68:THR:HG22	43:BH:72:ILE:CG1	2.50	0.41
43:BH:97:ARG:NH2	43:BH:99:VAL:HG21	2.33	0.41
43:BH:98:LEU:HG	43:BH:98:LEU:O	2.21	0.41
44:BJ:55:UNK:O	44:BJ:84:UNK:N	2.54	0.41
44:BJ:127:UNK:O	44:BJ:131:UNK:N	2.54	0.41
45:BK:10:UNK:O	45:BK:55:UNK:O	2.38	0.41
46:BN:2:LYS:NZ	53:BU:95:LEU:HD21	2.35	0.41
46:BN:35:ARG:NH2	46:BN:42:TRP:CH2	2.88	0.41
46:BN:48:MET:CE	46:BN:49:GLY:H	2.34	0.41
46:BN:101:HIS:C	46:BN:103:VAL:H	2.25	0.41
46:BN:103:VAL:O	46:BN:105:GLY:N	2.53	0.41
47:BO:2:ILE:HD13	47:BO:2:ILE:HA	1.75	0.41
47:BO:120:GLU:OE1	47:BO:122:LEU:HD11	2.20	0.41
49:BQ:39:PRO:O	49:BQ:40:ALA:HB2	2.21	0.41
49:BQ:48:GLU:HG3	49:BQ:51:ARG:CD	2.51	0.41
49:BQ:116:GLU:O	49:BQ:117:ALA:C	2.60	0.41
50:BR:25:ALA:HB1	50:BR:51:LEU:CD2	2.51	0.41
50:BR:42:LYS:O	50:BR:45:ARG:CB	2.69	0.41
50:BR:79:LEU:HD13	50:BR:80:PHE:N	2.36	0.41
51:BS:73:LEU:O	51:BS:74:ALA:C	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:77:ALA:HA	51:BS:80:LEU:CD1	2.49	0.41
52:BT:66:VAL:HG12	52:BT:71:GLY:HA2	2.02	0.41
52:BT:81:PRO:HD2	52:BT:82:LEU:HD12	2.03	0.41
53:BU:83:LEU:CD1	53:BU:83:LEU:N	2.83	0.41
55:BW:12:ILE:HG23	55:BW:17:VAL:HG22	2.02	0.41
55:BW:50:VAL:HG22	55:BW:105:VAL:HG21	2.03	0.41
55:BW:64:MET:CB	55:BW:69:LEU:HD21	2.51	0.41
56:BX:68:ARG:HG3	56:BX:69:TYR:CE1	2.55	0.41
57:BY:13:VAL:CG1	57:BY:14:LEU:N	2.69	0.41
57:BY:50:ARG:HG2	57:BY:58:GLY:CA	2.51	0.41
58:BZ:118:GLN:O	58:BZ:172:ALA:HA	2.21	0.41
1:CA:8:A:N6	4:CD:205:GLU:O	2.52	0.41
1:CA:59:A:H3'	1:CA:60:A:C5'	2.51	0.41
1:CA:127:G:H2'	1:CA:128:G:C8	2.56	0.41
1:CA:151:A:C2'	1:CA:152:A:H5'	2.51	0.41
1:CA:194:C:H5''	20:CT:65:LYS:CE	2.50	0.41
1:CA:218:C:C4	1:CA:219:C:N4	2.89	0.41
1:CA:302:G:H2'	1:CA:303:A:C8	2.56	0.41
1:CA:320:C:H2'	1:CA:321:A:C8	2.56	0.41
1:CA:321:A:O2'	1:CA:322:C:C5'	2.63	0.41
1:CA:347:G:O2'	1:CA:348:G:H8	2.03	0.41
1:CA:377:G:H5'	16:CP:5:ARG:NH1	2.36	0.41
1:CA:439:A:C8	1:CA:496:A:N1	2.89	0.41
1:CA:544:G:C6	1:CA:545:C:C2	3.09	0.41
1:CA:688:G:H5'	11:CK:46:GLY:C	2.41	0.41
1:CA:722:A:O3'	1:CA:723:U:H2'	2.20	0.41
1:CA:773:G:H2'	1:CA:774:G:H8	1.85	0.41
1:CA:782:A:H2'	1:CA:783:C:H5'	2.02	0.41
1:CA:796:C:O2'	1:CA:797:C:H5'	2.20	0.41
1:CA:954:G:O2'	13:CM:120:LYS:HD2	2.21	0.41
1:CA:990:C:C2	1:CA:1216:G:C2	3.09	0.41
1:CA:1030(A):G:C1'	1:CA:1031:G:H22	2.34	0.41
1:CA:1157:A:O2'	1:CA:1158:C:P	2.79	0.41
1:CA:1229:A:H2'	1:CA:1230:C:C6	2.56	0.41
1:CA:1290:G:H2'	1:CA:1290:G:N3	2.36	0.41
1:CA:1311:G:C6	1:CA:1312:G:N7	2.89	0.41
1:CA:1312:G:O2'	1:CA:1313:U:H5'	2.20	0.41
1:CA:1431:C:C2	1:CA:1470:G:N2	2.88	0.41
1:CA:1505:G:H5''	1:CA:1506:U:H5''	2.03	0.41
2:CB:11:LEU:C	2:CB:13:ALA:N	2.73	0.41
2:CB:55:PHE:HA	2:CB:58:ILE:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:220:ASP:O	2:CB:221:LEU:C	2.59	0.41
2:CB:230:VAL:HB	2:CB:231:GLU:H	1.66	0.41
3:CC:43:LEU:HD21	3:CC:91:LEU:HD21	2.03	0.41
3:CC:95:THR:HG22	3:CC:95:THR:O	2.20	0.41
3:CC:113:ALA:N	3:CC:202:ILE:HD12	2.36	0.41
3:CC:182:ILE:O	3:CC:183:ASP:C	2.58	0.41
4:CD:62:GLN:NE2	4:CD:65:ARG:HH21	2.19	0.41
4:CD:101:LEU:HD21	4:CD:126:ILE:HG21	2.03	0.41
4:CD:103:ASN:OD1	4:CD:114:ARG:NH2	2.54	0.41
4:CD:155:LEU:HB2	4:CD:158:ILE:CG1	2.51	0.41
5:CE:40:ARG:HG2	5:CE:40:ARG:NH1	2.36	0.41
5:CE:67:VAL:CG2	5:CE:68:GLU:N	2.83	0.41
6:CF:3:ARG:C	6:CF:93:SER:OG	2.59	0.41
6:CF:22:GLU:O	6:CF:25:ILE:N	2.54	0.41
6:CF:29:ALA:C	6:CF:31:GLU:N	2.73	0.41
7:CG:42:ILE:C	7:CG:44:TYR:N	2.73	0.41
7:CG:93:PRO:O	7:CG:94:ARG:C	2.59	0.41
8:CH:28:ALA:HB2	8:CH:58:TYR:C	2.42	0.41
8:CH:67:PRO:O	8:CH:76:PRO:HB3	2.21	0.41
8:CH:82:HIS:O	8:CH:83:ILE:HB	2.21	0.41
8:CH:100:ILE:HG23	8:CH:101:PRO:CD	2.50	0.41
9:CI:17:VAL:CG1	9:CI:81:ILE:HD13	2.48	0.41
9:CI:76:ALA:O	9:CI:77:ILE:C	2.59	0.41
9:CI:94:ALA:O	9:CI:95:LYS:CB	2.68	0.41
10:CJ:8:LEU:C	10:CJ:9:ARG:HG3	2.41	0.41
11:CK:57:THR:HG23	11:CK:60:ALA:N	2.32	0.41
11:CK:93:GLN:O	11:CK:94:ALA:C	2.57	0.41
12:CL:67:THR:HB	12:CL:96:VAL:HG13	2.02	0.41
12:CL:100:ILE:CG2	12:CL:101:VAL:N	2.82	0.41
12:CL:101:VAL:O	12:CL:104:VAL:HG23	2.20	0.41
13:CM:28:ALA:C	13:CM:30:ALA:N	2.74	0.41
13:CM:44:ARG:O	13:CM:46:LYS:N	2.53	0.41
14:CN:8:GLU:O	14:CN:10:ALA:N	2.53	0.41
15:CO:3:ILE:H	15:CO:3:ILE:HG12	1.48	0.41
15:CO:82:ILE:CG2	15:CO:83:GLU:N	2.75	0.41
19:CS:31:ILE:O	19:CS:31:ILE:HG12	2.21	0.41
19:CS:48:THR:HG23	19:CS:61:TYR:HA	2.03	0.41
20:CT:33:ILE:CG1	20:CT:62:LEU:HD22	2.48	0.41
20:CT:65:LYS:O	20:CT:68:LYS:HB2	2.20	0.41
22:CV:54:U:C2'	22:CV:55:U:H5'	2.51	0.41
22:CW:49:C:O2'	22:CW:50:U:H6	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:54:5MU:H73	24:CY:55:PSU:C2	2.56	0.41
24:CY:77:THR:HG22	25:CZ:239:THR:HB	2.03	0.41
25:CZ:67:HIS:CE1	25:CZ:80:VAL:HG22	2.56	0.41
25:CZ:89:ILE:HA	25:CZ:92:MET:HB3	2.03	0.41
25:CZ:322:VAL:N	25:CZ:366:ASP:O	2.52	0.41
25:CZ:401:THR:HG22	25:CZ:402:LYS:N	2.35	0.41
27:D1:84:GLY:O	27:D1:86:SER:N	2.54	0.41
28:D2:53:LEU:O	28:D2:54:LYS:C	2.59	0.41
28:D2:53:LEU:C	28:D2:56:GLN:HB2	2.41	0.41
28:D2:66:GLU:HG3	28:D2:67:LYS:N	2.36	0.41
32:D6:10:LEU:N	32:D6:10:LEU:CD2	2.81	0.41
36:DA:271(W):G:C6	36:DA:271(X):G:N1	2.88	0.41
36:DA:405:U:O2	36:DA:405:U:O4'	2.39	0.41
36:DA:537:C:N4	36:DA:556:G:N1	2.58	0.41
36:DA:593:G:H1	36:DA:664:C:H42	1.67	0.41
36:DA:603:A:H4'	36:DA:604:G:O5'	2.21	0.41
36:DA:627:A:OP1	36:DA:627:A:H8	2.04	0.41
36:DA:645:C:O2	36:DA:645:C:C3'	2.69	0.41
36:DA:654(D):G:H2'	36:DA:654(E):G:C8	2.55	0.41
36:DA:728:G:C2	36:DA:730:C:C2	3.08	0.41
36:DA:733:G:O6	36:DA:761:A:C5	2.74	0.41
36:DA:734:A:H2'	36:DA:735:A:O4'	2.20	0.41
36:DA:748:G:H3'	36:DA:750:A:OP2	2.20	0.41
36:DA:758:C:O2	36:DA:758:C:H2'	2.20	0.41
36:DA:769:G:O4'	36:DA:1379:A:C6	2.73	0.41
36:DA:775:G:C4	36:DA:794:G:C8	3.09	0.41
36:DA:806:C:H2'	36:DA:807:U:C6	2.56	0.41
36:DA:1044:G:N2	36:DA:1111:A:C2	2.89	0.41
36:DA:1049:C:H2'	36:DA:1050:A:H8	1.85	0.41
36:DA:1070:A:N6	36:DA:1096:A:C2	2.88	0.41
36:DA:1155:A:P	53:DU:55:ARG:HD2	2.61	0.41
36:DA:1186:G:H2'	36:DA:1187:G:C5'	2.51	0.41
36:DA:1198:U:O2	36:DA:1249:U:H1'	2.21	0.41
36:DA:1201:C:N4	36:DA:1244:G:H1	2.18	0.41
36:DA:1223:G:N2	36:DA:1226:A:OP2	2.40	0.41
36:DA:1301:A:HO2'	36:DA:1302:A:P	2.43	0.41
36:DA:1427:A:C1'	36:DA:1428:C:C5	3.04	0.41
36:DA:1435:G:H2'	36:DA:1436:G:C8	2.55	0.41
36:DA:1477:A:C2	36:DA:1478:G:C4	3.09	0.41
36:DA:1528:A:N6	36:DA:1544:A:N1	2.69	0.41
36:DA:1625:C:H2'	36:DA:1626:G:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1755:A:C2'	36:DA:1756:G:H5'	2.50	0.41
36:DA:1787:A:H4'	36:DA:2589:A:H4'	2.01	0.41
36:DA:1789:A:H2'	36:DA:1790:C:H6	1.86	0.41
36:DA:1804:C:H2'	36:DA:1805:U:H6	1.85	0.41
36:DA:1886:C:O2'	36:DA:1887:C:H5'	2.21	0.41
36:DA:1909:C:C2'	36:DA:1910:G:H5'	2.50	0.41
36:DA:2048:G:H5'	36:DA:2823:A:N1	2.36	0.41
36:DA:2071:A:H2	36:DA:2441:C:C2	2.39	0.41
36:DA:2152:G:C4	36:DA:2153:G:C8	3.08	0.41
36:DA:2161:C:O2'	36:DA:2162:G:H5'	2.20	0.41
36:DA:2330:G:O2'	36:DA:2331:G:H5'	2.21	0.41
36:DA:2495:G:P	49:DQ:82:ARG:HH21	2.44	0.41
36:DA:2588:G:O6	36:DA:2607:G:C6	2.74	0.41
36:DA:2667:C:H2'	36:DA:2668:G:C8	2.55	0.41
36:DA:2820:A:C4'	50:DR:5:LYS:HE2	2.51	0.41
36:DA:2838:G:H2'	36:DA:2839:G:C8	2.56	0.41
37:DB:16:G:O2'	37:DB:17:C:O5'	2.34	0.41
37:DB:37:C:H2'	37:DB:38:C:O4'	2.21	0.41
38:DC:61:THR:O	38:DC:62:VAL:HB	2.20	0.41
38:DC:70:LYS:NZ	38:DC:177:LYS:HZ3	2.19	0.41
38:DC:100:ILE:HD13	38:DC:126:LYS:HB2	2.02	0.41
39:DD:17:THR:OG1	39:DD:205:VAL:N	2.43	0.41
39:DD:96:HIS:CE1	39:DD:102:LYS:HZ3	2.39	0.41
39:DD:132:PRO:O	39:DD:136:ILE:HD13	2.20	0.41
39:DD:147:LEU:HD21	39:DD:183:ARG:HH12	1.85	0.41
39:DD:186:HIS:O	39:DD:189:CYS:SG	2.79	0.41
39:DD:210:GLY:C	39:DD:212:SER:H	2.24	0.41
40:DE:4:ILE:HG22	40:DE:96:PHE:HE2	1.86	0.41
40:DE:7:VAL:CG1	40:DE:27:LEU:HB3	2.50	0.41
40:DE:93:VAL:HG21	40:DE:180:ASN:HA	2.01	0.41
40:DE:163:GLU:O	40:DE:165:VAL:HG23	2.21	0.41
40:DE:199:ARG:HB3	40:DE:199:ARG:HH11	1.85	0.41
41:DF:31:HIS:O	41:DF:34:TRP:N	2.53	0.41
41:DF:42:ALA:O	41:DF:45:ARG:HG3	2.21	0.41
42:DG:44:GLY:O	42:DG:47:LYS:CD	2.69	0.41
43:DH:49:VAL:C	43:DH:50:VAL:CG2	2.90	0.41
43:DH:67:LEU:HG	43:DH:71:LEU:CG	2.51	0.41
43:DH:67:LEU:O	43:DH:71:LEU:HG	2.21	0.41
45:DK:24:UNK:C	45:DK:26:UNK:N	2.84	0.41
46:DN:21:LYS:O	46:DN:61:ARG:HB2	2.18	0.41
46:DN:30:ILE:O	46:DN:34:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:71:ILE:CG2	46:DN:72:TYR:N	2.84	0.41
46:DN:78:TYR:N	46:DN:78:TYR:CD1	2.88	0.41
46:DN:87:LEU:HD13	46:DN:87:LEU:C	2.41	0.41
46:DN:91:LEU:CD2	46:DN:98:VAL:HG21	2.51	0.41
46:DN:103:VAL:C	46:DN:105:GLY:N	2.74	0.41
47:DO:78:ARG:O	52:DT:73:GLU:N	2.53	0.41
47:DO:104:ARG:O	47:DO:105:GLU:C	2.57	0.41
48:DP:97:PRO:HD3	48:DP:126:VAL:O	2.21	0.41
48:DP:125:VAL:HG13	48:DP:125:VAL:O	2.21	0.41
49:DQ:75:THR:HG21	49:DQ:87:LYS:HZ2	1.83	0.41
51:DS:66:ALA:O	51:DS:67:ARG:C	2.59	0.41
51:DS:68:GLN:O	51:DS:70:GLY:N	2.54	0.41
51:DS:106:ARG:HH11	51:DS:106:ARG:CB	2.34	0.41
53:DU:61:TRP:CZ3	53:DU:94:ASN:HA	2.56	0.41
54:DV:58:VAL:HG12	54:DV:97:LYS:HG3	2.02	0.41
54:DV:79:VAL:O	54:DV:79:VAL:HG12	2.21	0.41
55:DW:6:ILE:HG12	55:DW:104:THR:CG2	2.47	0.41
55:DW:82:LEU:HD12	55:DW:82:LEU:N	2.36	0.41
56:DX:17:ALA:O	56:DX:18:TYR:C	2.59	0.41
56:DX:60:ARG:HG3	56:DX:75:ASP:CG	2.39	0.41
56:DX:63:LYS:HB2	56:DX:63:LYS:HE3	1.82	0.41
57:DY:54:LYS:O	57:DY:55:TYR:C	2.59	0.41
58:DZ:10:ARG:HB2	58:DZ:37:VAL:HA	2.03	0.41
58:DZ:10:ARG:NE	58:DZ:37:VAL:O	2.54	0.41
1:AA:507:C:H2'	1:AA:508:C:H5	1.86	0.41
1:AA:545:C:O2'	1:AA:546:G:H5'	2.20	0.41
1:AA:657:G:C2	1:AA:750:G:C5	3.08	0.41
1:AA:833:U:H2'	1:AA:834:C:H6	1.85	0.41
1:AA:1054:C:C2'	1:AA:1055:A:H5''	2.51	0.41
1:AA:1129:C:H4'	1:AA:1130:A:H8	1.84	0.41
1:AA:1231:G:C5	1:AA:1232:U:C5	3.09	0.41
1:AA:1399:C:C4	1:AA:1502:A:N6	2.88	0.41
1:AA:1492:A:C6	1:AA:1493:A:C6	3.09	0.41
2:AB:26:PRO:O	2:AB:28:PHE:N	2.50	0.41
2:AB:140:HIS:HA	2:AB:143:GLU:OE1	2.21	0.41
2:AB:200:ILE:HG22	2:AB:201:ILE:H	1.85	0.41
3:AC:5:ILE:HG12	3:AC:10:PHE:HB2	2.03	0.41
3:AC:120:VAL:O	3:AC:121:ALA:C	2.57	0.41
4:AD:79:PHE:CD2	4:AD:207:TYR:HD1	2.39	0.41
5:AE:127:ASN:HA	5:AE:128:PRO:HD3	1.76	0.41
5:AE:131:ILE:HD13	5:AE:131:ILE:HA	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:143:ARG:NH1	8:AH:77:GLU:OE1	2.53	0.41
7:AG:150:ALA:O	7:AG:153:HIS:HE1	2.04	0.41
9:AI:15:ALA:HA	9:AI:65:VAL:HA	2.03	0.41
11:AK:57:THR:HG23	11:AK:60:ALA:N	2.32	0.41
11:AK:57:THR:CG2	11:AK:60:ALA:HB3	2.51	0.41
12:AL:32:PHE:O	12:AL:33:ARG:HB2	2.21	0.41
12:AL:52:LEU:HD23	12:AL:52:LEU:N	2.36	0.41
12:AL:83:VAL:CG1	12:AL:84:LEU:H	2.33	0.41
14:AN:3:ARG:HE	14:AN:3:ARG:HB3	1.63	0.41
16:AP:35:LYS:HE2	16:AP:37:GLY:CA	2.51	0.41
19:AS:32:LYS:H	19:AS:32:LYS:HG3	1.59	0.41
22:AV:3:C:C2	22:AV:71:G:N2	2.88	0.41
22:AV:66:U:O2'	22:AV:67:C:H5'	2.20	0.41
22:AW:38:A:H2'	22:AW:39:U:C4'	2.51	0.41
24:AY:53:G:O2'	24:AY:54:5MU:H5''	2.21	0.41
25:AZ:108:ALA:H	25:AZ:137:LYS:HB2	1.86	0.41
25:AZ:116:THR:HG22	25:AZ:120:ILE:CD1	2.50	0.41
25:AZ:136:ASN:OD1	25:AZ:174:SER:HA	2.21	0.41
25:AZ:137:LYS:O	25:AZ:140:MET:HB2	2.21	0.41
25:AZ:322:VAL:HB	25:AZ:366:ASP:O	2.21	0.41
30:B4:6:HIS:CA	42:BG:67:LYS:CE	2.98	0.41
32:B6:5:VAL:HG21	36:BA:2283:C:H5'	2.03	0.41
32:B6:45:LYS:N	32:B6:45:LYS:HD2	2.18	0.41
34:B8:6:THR:CG2	34:B8:63:PRO:HD3	2.51	0.41
36:BA:142(A):C:C2'	36:BA:143:G:H5'	2.51	0.41
36:BA:221:A:C4	36:BA:266:G:N7	2.89	0.41
36:BA:271(M):G:O2'	36:BA:271(O):C:H5'	2.21	0.41
36:BA:460:A:H3'	36:BA:461:C:C6	2.56	0.41
36:BA:472:A:O2'	36:BA:508:G:N2	2.51	0.41
36:BA:592:G:H2'	36:BA:592:G:N3	2.36	0.41
36:BA:679:C:H2'	36:BA:680:G:C8	2.56	0.41
36:BA:705:A:H2'	36:BA:706:A:C8	2.56	0.41
36:BA:764:A:C3'	36:BA:765:G:H5'	2.47	0.41
36:BA:816:C:H2'	36:BA:817:C:C6	2.56	0.41
36:BA:1052:C:O2'	36:BA:1053:C:P	2.79	0.41
36:BA:1138:G:H8	36:BA:1138:G:O5'	2.03	0.41
36:BA:1358:G:N7	36:BA:1371:G:C6	2.89	0.41
36:BA:1478:G:H2'	36:BA:1479:G:C8	2.55	0.41
36:BA:1518:U:H2'	36:BA:1519:G:C4'	2.50	0.41
36:BA:1551:C:O2'	36:BA:1552:G:H5'	2.21	0.41
36:BA:1599:C:C2	36:BA:1600:C:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1924:C:H2'	36:BA:1925:C:C6	2.51	0.41
36:BA:2082:A:O2'	36:BA:2083:G:H5'	2.20	0.41
36:BA:2282:G:C5'	36:BA:2283:C:O5'	2.69	0.41
36:BA:2352:A:C4	36:BA:2366:A:N1	2.89	0.41
36:BA:2394:C:OP1	48:BP:63:PRO:CD	2.69	0.41
36:BA:2605:U:H2'	36:BA:2606:C:C5	2.55	0.41
36:BA:2646:C:OP2	36:BA:2732:G:O2'	2.38	0.41
36:BA:2746:U:H2'	36:BA:2747:G:C8	2.55	0.41
39:BD:223:GLY:O	39:BD:225:ALA:N	2.54	0.41
41:BF:42:ALA:C	41:BF:44:ARG:N	2.74	0.41
41:BF:65:TRP:CZ3	41:BF:72:ARG:HB3	2.56	0.41
41:BF:105:VAL:O	41:BF:105:VAL:HG12	2.21	0.41
42:BG:21:ARG:NH2	42:BG:22:ARG:CA	2.71	0.41
42:BG:174:GLU:CA	42:BG:180:PHE:HE1	2.29	0.41
43:BH:65:HIS:CE1	43:BH:69:ARG:NH2	2.89	0.41
43:BH:98:LEU:CB	43:BH:125:VAL:CG2	2.99	0.41
46:BN:2:LYS:O	46:BN:4:TYR:CZ	2.74	0.41
46:BN:16:ILE:HD11	46:BN:139:GLU:N	2.34	0.41
46:BN:36:GLY:O	46:BN:42:TRP:HE3	2.04	0.41
49:BQ:52:VAL:C	49:BQ:54:MET:N	2.70	0.41
50:BR:37:THR:O	50:BR:41:ALA:HB2	2.20	0.41
52:BT:106:SER:O	52:BT:107:ASP:OD1	2.38	0.41
53:BU:55:ARG:HG2	53:BU:58:ARG:NE	2.36	0.41
54:BV:35:LEU:N	54:BV:35:LEU:CD2	2.81	0.41
54:BV:71:LEU:HD21	54:BV:84:LYS:HG2	2.01	0.41
55:BW:20:VAL:CG2	55:BW:47:VAL:HG21	2.46	0.41
56:BX:8:ILE:CD1	56:BX:43:VAL:HG22	2.46	0.41
56:BX:12:VAL:HG12	56:BX:27:THR:N	2.36	0.41
57:BY:15:VAL:HG12	57:BY:17:SER:H	1.86	0.41
58:BZ:127:LYS:HG3	58:BZ:162:GLU:CG	2.51	0.41
1:CA:286:G:H2'	1:CA:287:U:O4'	2.21	0.41
1:CA:431:A:O2'	1:CA:432:A:H5'	2.19	0.41
1:CA:458:C:N4	1:CA:474:G:N1	2.69	0.41
1:CA:471:G:O2'	1:CA:472:A:H5'	2.21	0.41
1:CA:547:A:O2'	1:CA:548:G:O4'	2.39	0.41
1:CA:826:C:H5''	8:CH:12:ARG:NH1	2.35	0.41
1:CA:880:C:P	12:CL:12:ARG:HH11	2.43	0.41
1:CA:941:G:C2	1:CA:942:G:C8	3.09	0.41
1:CA:960:U:O2	1:CA:960:U:C2'	2.69	0.41
1:CA:1003:G:N2	1:CA:1038:C:N3	2.68	0.41
1:CA:1015:A:H8	1:CA:1015:A:O5'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1073:U:H3	1:CA:1102:A:H61	1.69	0.41
1:CA:1166:G:C2	1:CA:1171:G:N1	2.89	0.41
1:CA:1202:G:C4	14:CN:42:ILE:HG21	2.56	0.41
1:CA:1226:C:OP2	13:CM:103:THR:HG21	2.20	0.41
1:CA:1280:A:O2'	1:CA:1281:U:OP1	2.31	0.41
1:CA:1438:G:C4	1:CA:1439:C:C5	3.09	0.41
2:CB:97:TRP:CZ3	2:CB:173:ALA:HA	2.55	0.41
2:CB:142:LEU:O	2:CB:142:LEU:HD23	2.21	0.41
3:CC:164:ARG:NH2	3:CC:166:GLU:OE2	2.54	0.41
3:CC:181:ASN:HD21	3:CC:204:LEU:CD1	2.27	0.41
4:CD:107:ARG:NH2	4:CD:194:LEU:CD1	2.71	0.41
5:CE:79:GLU:HB3	5:CE:93:PRO:HD3	2.03	0.41
9:CI:4:TYR:O	9:CI:18:PHE:HA	2.20	0.41
10:CJ:38:ILE:O	10:CJ:38:ILE:HG13	2.21	0.41
13:CM:52:GLU:CA	13:CM:55:ARG:HB3	2.38	0.41
13:CM:74:VAL:O	13:CM:75:ALA:C	2.60	0.41
19:CS:40:ILE:CB	19:CS:67:VAL:HA	2.51	0.41
20:CT:38:LYS:O	20:CT:40:ALA:N	2.54	0.41
20:CT:96:GLY:O	20:CT:97:ALA:CB	2.69	0.41
22:CV:49:C:HO2'	22:CV:50:U:P	2.44	0.41
24:CY:53:G:O2'	24:CY:54:5MU:H5''	2.21	0.41
24:CY:65:C:H4'	25:CZ:341:GLN:HG2	2.03	0.41
25:CZ:186:PRO:O	25:CZ:187:LYS:CG	2.66	0.41
25:CZ:326:GLU:N	25:CZ:326:GLU:CD	2.74	0.41
26:D0:70:GLN:HE21	26:D0:80:HIS:HE2	1.66	0.41
29:D3:6:VAL:HA	29:D3:56:VAL:HA	2.02	0.41
32:D6:12:GLU:OE1	32:D6:54:ILE:HG22	2.20	0.41
32:D6:36:LEU:HD23	32:D6:37:ARG:N	2.36	0.41
34:D8:8:LYS:HA	34:D8:11:LYS:HD3	2.02	0.41
34:D8:22:VAL:C	34:D8:23:VAL:HG23	2.41	0.41
36:DA:274:G:N3	36:DA:274:G:C2'	2.84	0.41
36:DA:371:A:N3	36:DA:373:U:C4	2.89	0.41
36:DA:603:A:C2	36:DA:655:A:C6	3.08	0.41
36:DA:716:A:H3'	36:DA:717:G:H5''	2.03	0.41
36:DA:916:G:H2'	36:DA:917:A:H5''	2.02	0.41
36:DA:1051:G:H2'	36:DA:1052:C:C6	2.56	0.41
36:DA:1154:G:H5''	53:DU:59:ARG:HH22	1.86	0.41
36:DA:1197:G:H2'	36:DA:1198:U:H6	1.86	0.41
36:DA:1314:C:O2'	36:DA:1315:C:H5'	2.21	0.41
36:DA:1360:A:C6	36:DA:1372:U:C4	3.09	0.41
36:DA:1437:C:O2'	36:DA:1516:C:H1'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1786:A:O2'	36:DA:1938:A:N6	2.54	0.41
36:DA:1888:G:N3	36:DA:1888:G:H5'	2.36	0.41
36:DA:2185:C:OP2	36:DA:2185:C:H6	2.03	0.41
36:DA:2192:G:C2	36:DA:2193:G:C8	3.09	0.41
36:DA:2274:A:C5	36:DA:2276:G:C8	3.09	0.41
36:DA:2350:C:O2'	36:DA:2351:G:H5'	2.21	0.41
36:DA:2842:G:C2	36:DA:2876:G:C2	3.09	0.41
36:DA:2896:C:O2	36:DA:2896:C:O4'	2.39	0.41
37:DB:71:C:C2	37:DB:72:G:C8	3.09	0.41
39:DD:142:VAL:HA	39:DD:194:GLY:N	2.36	0.41
39:DD:174:ILE:HA	39:DD:183:ARG:O	2.20	0.41
40:DE:134:ILE:C	40:DE:136:ARG:H	2.24	0.41
41:DF:11:VAL:C	41:DF:13:SER:N	2.73	0.41
41:DF:31:HIS:C	41:DF:33:LEU:N	2.72	0.41
41:DF:32:LEU:HD22	41:DF:109:GLY:CA	2.50	0.41
41:DF:32:LEU:CD2	41:DF:109:GLY:HA3	2.51	0.41
41:DF:97:TYR:N	41:DF:97:TYR:HD2	2.19	0.41
41:DF:163:VAL:O	41:DF:164:ARG:C	2.59	0.41
42:DG:85:GLY:O	42:DG:86:MET:HB3	2.21	0.41
48:DP:112:LEU:HD13	48:DP:112:LEU:C	2.40	0.41
50:DR:66:VAL:C	50:DR:68:ARG:N	2.74	0.41
53:DU:65:ILE:H	53:DU:65:ILE:CD1	2.33	0.41
54:DV:21:ARG:HG2	54:DV:21:ARG:HH11	1.86	0.41
55:DW:25:ARG:NH2	55:DW:74:ALA:O	2.50	0.41
56:DX:45:THR:OG1	56:DX:46:ALA:N	2.54	0.41
58:DZ:27:VAL:HG12	58:DZ:85:HIS:NE2	2.36	0.41
58:DZ:110:GLY:O	58:DZ:115:GLY:HA3	2.20	0.41
58:DZ:151:HIS:CB	58:DZ:170:THR:HA	2.51	0.41
58:DZ:151:HIS:O	58:DZ:152:ALA:O	2.38	0.41
58:DZ:163:LEU:CD1	58:DZ:165:VAL:HG23	2.51	0.41
1:AA:64:G:N2	1:AA:67:C:N4	2.69	0.40
1:AA:684:A:O2'	1:AA:685:G:H5'	2.21	0.40
1:AA:751:U:C2'	1:AA:752:G:H5'	2.52	0.40
1:AA:858:G:OP2	1:AA:858:G:H8	2.04	0.40
1:AA:863:U:C3'	1:AA:864:A:H5''	2.51	0.40
1:AA:947:G:H2'	1:AA:948:C:H6	1.83	0.40
1:AA:982:U:HO2'	1:AA:983:A:P	2.44	0.40
1:AA:1001:A:N3	1:AA:1001(A):G:O6	2.54	0.40
1:AA:1050:G:O2'	1:AA:1051:C:O5'	2.39	0.40
1:AA:1110:A:C5	1:AA:1111:A:C5	3.09	0.40
1:AA:1255:G:H5'	1:AA:1256:A:OP1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1526:G:O2'	1:AA:1527:C:C5'	2.69	0.40
3:AC:56:ASP:HB2	3:AC:67:THR:HB	2.03	0.40
4:AD:29:PRO:O	4:AD:30:LYS:CB	2.69	0.40
5:AE:136:MET:O	5:AE:137:GLU:C	2.59	0.40
7:AG:76:ARG:HH21	7:AG:156:TRP:HH2	1.67	0.40
7:AG:79:ARG:HA	7:AG:83:ALA:O	2.22	0.40
7:AG:150:ALA:HB2	11:AK:50:TYR:HE2	1.83	0.40
8:AH:83:ILE:HG23	8:AH:83:ILE:O	2.21	0.40
9:AI:76:ALA:O	9:AI:79:LEU:N	2.40	0.40
10:AJ:50:ILE:HG23	10:AJ:60:ARG:HD3	2.04	0.40
12:AL:79:GLU:O	12:AL:79:GLU:CG	2.69	0.40
13:AM:44:ARG:C	13:AM:46:LYS:N	2.72	0.40
14:AN:48:ALA:H	14:AN:53:LEU:HD12	1.83	0.40
15:AO:11:VAL:O	15:AO:12:ILE:C	2.58	0.40
16:AP:11:SER:HB2	16:AP:14:ASN:HB3	2.03	0.40
16:AP:35:LYS:HG2	16:AP:36:ILE:N	2.36	0.40
19:AS:45:VAL:C	19:AS:47:HIS:H	2.23	0.40
20:AT:17:ARG:O	20:AT:19:SER:N	2.54	0.40
22:AW:24:G:C5	22:AW:25:C:C4	3.09	0.40
24:AY:70:A:C2	24:AY:71:G:N7	2.89	0.40
25:AZ:33:TYR:O	25:AZ:34:VAL:C	2.59	0.40
25:AZ:69:GLU:HB3	25:AZ:273:HIS:ND1	2.35	0.40
25:AZ:219:LYS:O	25:AZ:220:PRO:O	2.39	0.40
27:B1:34:THR:O	36:BA:2432:A:N1	2.53	0.40
27:B1:86:SER:O	27:B1:87:PRO:C	2.57	0.40
29:B3:15:TYR:CE2	29:B3:52:HIS:ND1	2.89	0.40
32:B6:18:ARG:HD2	32:B6:43:CYS:SG	2.61	0.40
33:B7:30:VAL:HA	33:B7:33:ARG:NH2	2.37	0.40
33:B7:43:THR:O	33:B7:44:PRO:C	2.59	0.40
34:B8:12:LYS:NZ	36:BA:249:C:O2	2.42	0.40
36:BA:525:U:C2'	36:BA:526:A:H5'	2.51	0.40
36:BA:586:A:N1	36:BA:809:G:O2'	2.36	0.40
36:BA:614(B):G:H5''	36:BA:614(C):A:OP1	2.21	0.40
36:BA:903:C:H2'	36:BA:904:C:H6	1.78	0.40
36:BA:1034:G:C6	36:BA:1035:U:N3	2.89	0.40
36:BA:1049:C:H2'	36:BA:1050:A:H8	1.87	0.40
36:BA:1285:G:C5	36:BA:1329:U:C4	3.10	0.40
36:BA:1324:G:N1	36:BA:1328:G:N1	2.69	0.40
36:BA:1464:C:H2'	36:BA:1465:G:H8	1.85	0.40
36:BA:1742:G:C6	36:BA:1743:C:N3	2.89	0.40
36:BA:2055:C:H5'	36:BA:2056:G:O5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2121:G:N2	36:BA:2176:A:C2	2.86	0.40
36:BA:2228:G:OP2	39:BD:263:ARG:NH1	2.54	0.40
36:BA:2244:U:H1'	36:BA:2434:A:C5	2.56	0.40
36:BA:2315:G:H2'	36:BA:2316:C:H6	1.84	0.40
36:BA:2330:G:C2'	36:BA:2331:G:H5'	2.51	0.40
36:BA:2346:A:C2	36:BA:2383:G:C2	3.09	0.40
36:BA:2358:G:H2'	36:BA:2359:C:H6	1.87	0.40
36:BA:2540:C:C2'	36:BA:2541:A:H5'	2.52	0.40
36:BA:2776:A:C4'	36:BA:2778:A:H5''	2.51	0.40
36:BA:2842:G:C2	36:BA:2876:G:C2	3.09	0.40
36:BA:2896:C:O2	36:BA:2896:C:O4'	2.39	0.40
39:BD:185:VAL:HG12	39:BD:186:HIS:N	2.36	0.40
40:BE:103:ASP:OD1	40:BE:201:THR:HA	2.20	0.40
41:BF:48:THR:O	41:BF:49:ALA:C	2.59	0.40
42:BG:88:ILE:HG22	42:BG:89:GLY:N	2.35	0.40
43:BH:92:ILE:H	43:BH:92:ILE:HG13	1.58	0.40
43:BH:136:ILE:N	43:BH:136:ILE:CD1	2.83	0.40
43:BH:144:VAL:O	43:BH:148:ILE:HG12	2.20	0.40
46:BN:87:LEU:HD13	46:BN:87:LEU:C	2.42	0.40
48:BP:115:LEU:HD23	48:BP:115:LEU:N	2.36	0.40
49:BQ:48:GLU:O	49:BQ:50:ALA:N	2.54	0.40
49:BQ:59:ARG:HD2	49:BQ:59:ARG:O	2.22	0.40
51:BS:68:GLN:O	51:BS:70:GLY:N	2.54	0.40
53:BU:32:PHE:O	53:BU:36:ARG:CB	2.69	0.40
53:BU:69:CYS:O	53:BU:74:LEU:HD12	2.20	0.40
53:BU:94:ASN:HD22	53:BU:95:LEU:HG	1.86	0.40
54:BV:17:GLY:O	54:BV:18:LEU:HB3	2.21	0.40
54:BV:43:GLU:O	54:BV:44:LYS:CB	2.69	0.40
54:BV:64:HIS:HA	54:BV:92:THR:HA	2.03	0.40
55:BW:68:ARG:O	55:BW:110:LYS:HB2	2.21	0.40
56:BX:8:ILE:N	56:BX:8:ILE:CD1	2.84	0.40
56:BX:57:LEU:N	56:BX:57:LEU:HD13	2.35	0.40
58:BZ:7:ALA:H	58:BZ:59:LEU:HB3	1.85	0.40
1:CA:51:A:C2	1:CA:353:A:N1	2.90	0.40
1:CA:90:U:O2'	1:CA:91:C:H5	2.04	0.40
1:CA:159:G:H2'	1:CA:161:A:OP2	2.21	0.40
1:CA:266:G:O2'	1:CA:267:C:P	2.79	0.40
1:CA:442:C:N4	1:CA:443:C:N4	2.70	0.40
1:CA:572:A:C2	1:CA:864:A:C2	3.09	0.40
1:CA:636:U:OP1	17:CQ:2:PRO:HG3	2.21	0.40
1:CA:926:G:C6	1:CA:1505:G:C5	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:930:C:O2'	1:CA:931:C:H5'	2.21	0.40
1:CA:935:A:C2	1:CA:936:C:C4	3.09	0.40
1:CA:942:G:N2	1:CA:943:U:C2	2.89	0.40
1:CA:1005:A:H8	1:CA:1005:A:O5'	2.04	0.40
1:CA:1092:A:C6	1:CA:1093:A:C6	3.09	0.40
1:CA:1106:G:C2'	1:CA:1107:C:H5'	2.51	0.40
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.56	0.40
1:CA:1308:U:H2'	1:CA:1309:G:H8	1.86	0.40
1:CA:1381:U:C5	1:CA:1382:C:C5	3.09	0.40
1:CA:1394:A:C5	1:CA:1501:C:H4'	2.56	0.40
1:CA:1520:G:C2'	1:CA:1521:G:O5'	2.69	0.40
2:CB:112:VAL:O	2:CB:113:HIS:C	2.60	0.40
2:CB:178:ARG:NH2	8:CH:68:ARG:HH22	2.19	0.40
2:CB:182:ILE:HG13	2:CB:182:ILE:H	1.75	0.40
3:CC:90:GLU:HA	3:CC:93:LYS:HD3	2.03	0.40
4:CD:10:ARG:HG2	4:CD:10:ARG:NH1	2.35	0.40
4:CD:11:LEU:C	4:CD:13:ARG:N	2.69	0.40
4:CD:92:VAL:CG1	4:CD:96:LEU:HD13	2.51	0.40
5:CE:64:ARG:HH11	5:CE:64:ARG:CG	2.34	0.40
5:CE:145:LYS:HB2	8:CH:107:LEU:HD21	2.02	0.40
5:CE:150:ARG:HB2	5:CE:150:ARG:CZ	2.50	0.40
6:CF:14:LEU:HD12	6:CF:19:LEU:HB2	2.03	0.40
7:CG:73:MET:HA	7:CG:90:GLU:HA	2.04	0.40
7:CG:123:GLU:O	7:CG:126:ASP:N	2.54	0.40
7:CG:144:MET:HE1	22:CW:31:A:H1'	2.03	0.40
8:CH:34:GLU:OE2	8:CH:37:ARG:NH1	2.54	0.40
9:CI:10:ARG:O	9:CI:11:LYS:CB	2.63	0.40
10:CJ:98:ILE:HD12	10:CJ:98:ILE:HA	1.94	0.40
13:CM:19:LEU:H	13:CM:19:LEU:CD2	2.33	0.40
13:CM:40:ASN:OD1	13:CM:41:PRO:CD	2.68	0.40
13:CM:66:LEU:C	13:CM:70:LEU:HB3	2.42	0.40
13:CM:70:LEU:HD22	13:CM:71:ARG:N	2.37	0.40
13:CM:74:VAL:O	13:CM:77:ASN:ND2	2.53	0.40
16:CP:20:VAL:HG13	16:CP:22:THR:HG22	2.04	0.40
18:CR:48:GLY:O	18:CR:74:ARG:NH2	2.54	0.40
20:CT:50:GLU:C	20:CT:52:ALA:H	2.24	0.40
22:CV:1:G:N1	22:CV:73:A:C8	2.88	0.40
22:CV:30:G:N1	22:CV:41:C:C4	2.89	0.40
25:CZ:71:GLU:HB2	25:CZ:75:ARG:O	2.21	0.40
25:CZ:145:GLU:HB3	25:CZ:146:LEU:H	1.67	0.40
26:D0:10:THR:CG2	26:D0:11:ARG:N	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:80:LEU:CD2	27:D1:81:LYS:N	2.83	0.40
36:DA:17:G:H4'	53:DU:25:TRP:CZ2	2.56	0.40
36:DA:142(A):C:C2'	36:DA:143:G:H5'	2.50	0.40
36:DA:225:A:H2'	36:DA:226:G:H5'	2.02	0.40
36:DA:244:A:H3'	36:DA:245:G:H5''	2.01	0.40
36:DA:246:C:O5'	36:DA:246:C:H6	2.05	0.40
36:DA:571:A:C8	36:DA:2030:A:C6	3.09	0.40
36:DA:715:G:C6	36:DA:716:A:C6	3.10	0.40
36:DA:1233:C:N3	36:DA:1234:U:C5	2.89	0.40
36:DA:1247:A:C2	36:DA:1249:U:C6	3.09	0.40
36:DA:1448:G:N2	36:DA:1464:C:H1'	2.36	0.40
36:DA:1569:A:O2'	39:DD:38:LYS:HG3	2.20	0.40
36:DA:1800:C:OP1	39:DD:264:LYS:HE2	2.21	0.40
36:DA:2040:C:N3	36:DA:2041:U:C4	2.89	0.40
36:DA:2048:G:N2	36:DA:2621:A:N3	2.69	0.40
36:DA:2307:G:N2	36:DA:2308:G:C5'	2.84	0.40
36:DA:2679:A:C6	36:DA:2729:G:O6	2.73	0.40
36:DA:2740:A:H2'	36:DA:2741:A:C8	2.56	0.40
38:DC:30:LYS:HE2	38:DC:178:ALA:O	2.21	0.40
39:DD:65:ILE:HG22	39:DD:104:TYR:CB	2.50	0.40
39:DD:162:SER:O	39:DD:178:PRO:HG3	2.21	0.40
40:DE:23:VAL:CA	40:DE:184:VAL:O	2.68	0.40
40:DE:199:ARG:CZ	40:DE:199:ARG:CB	2.99	0.40
47:DO:8:LEU:O	47:DO:9:GLU:C	2.60	0.40
48:DP:59:LEU:HA	48:DP:61:ARG:CZ	2.47	0.40
49:DQ:39:PRO:O	49:DQ:40:ALA:HB2	2.21	0.40
49:DQ:74:TYR:CD1	49:DQ:75:THR:N	2.85	0.40
50:DR:45:ARG:O	50:DR:48:VAL:N	2.54	0.40
51:DS:106:ARG:O	51:DS:107:GLU:HB3	2.21	0.40
52:DT:8:LYS:C	52:DT:10:VAL:H	2.23	0.40
52:DT:78:LEU:HA	52:DT:82:LEU:CD2	2.51	0.40
52:DT:83:ILE:CG1	52:DT:84:GLN:N	2.71	0.40
52:DT:106:SER:O	52:DT:107:ASP:OD1	2.38	0.40
55:DW:4:LYS:HG2	55:DW:5:ALA:N	2.36	0.40
55:DW:12:ILE:HG23	55:DW:17:VAL:HG22	2.03	0.40
57:DY:13:VAL:HG23	57:DY:73:ARG:O	2.21	0.40
57:DY:15:VAL:HG12	57:DY:17:SER:H	1.86	0.40
58:DZ:24:LEU:HD23	58:DZ:24:LEU:C	2.42	0.40
1:AA:60:A:OP2	1:AA:387:U:H4'	2.21	0.40
1:AA:131:C:O2	1:AA:262:A:H2	2.04	0.40
1:AA:149:A:H2'	1:AA:150:C:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:151:A:H2'	1:AA:152:A:C5'	2.50	0.40
1:AA:276:G:C2'	1:AA:277:C:H5'	2.51	0.40
1:AA:502:G:N1	1:AA:544:G:C6	2.90	0.40
1:AA:684:A:H2'	1:AA:685:G:C8	2.57	0.40
1:AA:1238:A:C8	1:AA:1303:C:H1'	2.56	0.40
1:AA:1245:A:N1	1:AA:1293:G:C6	2.89	0.40
1:AA:1365:G:O2'	1:AA:1366:C:H5'	2.21	0.40
2:AB:8:LYS:CE	2:AB:217:ARG:NH2	2.83	0.40
2:AB:26:PRO:C	2:AB:28:PHE:N	2.74	0.40
4:AD:3:ARG:HD3	4:AD:5:ILE:HG13	2.03	0.40
4:AD:106:TYR:CD2	4:AD:106:TYR:C	2.94	0.40
5:AE:43:LEU:HD12	5:AE:44:GLY:N	2.36	0.40
5:AE:63:ARG:HA	5:AE:66:MET:SD	2.61	0.40
10:AJ:80:LYS:O	10:AJ:83:GLU:HB3	2.20	0.40
11:AK:48:ILE:HG22	11:AK:49:GLY:H	1.85	0.40
11:AK:99:GLN:O	11:AK:101:SER:N	2.46	0.40
12:AL:70:ILE:HA	12:AL:71:PRO:HD3	1.84	0.40
12:AL:75:HIS:CD2	12:AL:77:LEU:HB2	2.56	0.40
14:AN:4:LYS:HB3	14:AN:5:ALA:H	1.68	0.40
14:AN:23:ARG:O	14:AN:24:CYS:C	2.59	0.40
14:AN:44:LEU:HD12	14:AN:44:LEU:C	2.42	0.40
17:AQ:18:THR:O	17:AQ:19:VAL:HG13	2.21	0.40
18:AR:31:LEU:H	18:AR:31:LEU:HD23	1.87	0.40
19:AS:40:ILE:CB	19:AS:67:VAL:HA	2.52	0.40
20:AT:30:LYS:O	20:AT:32:ALA:N	2.54	0.40
25:AZ:324:LYS:HG2	25:AZ:326:GLU:OE1	2.22	0.40
25:AZ:383:GLY:H	25:AZ:400:VAL:HB	1.85	0.40
26:B0:11:ARG:HB3	26:B0:14:ARG:HH2	1.87	0.40
28:B2:39:ALA:HB2	28:B2:45:SER:HA	2.02	0.40
31:B5:2:ALA:N	36:BA:2015:A:N3	2.70	0.40
32:B6:15:GLU:OE1	32:B6:18:ARG:CZ	2.68	0.40
32:B6:54:ILE:CG2	32:B6:54:ILE:OXT	2.68	0.40
33:B7:24:THR:C	33:B7:28:ARG:NH2	2.75	0.40
34:B8:21:LYS:HD2	36:BA:651:G:OP2	2.21	0.40
36:BA:84:A:H2	36:BA:98:G:N3	2.20	0.40
36:BA:270:A:N1	36:BA:366:C:O2'	2.43	0.40
36:BA:271(S):G:C2	36:BA:271(T):C:C2	3.09	0.40
36:BA:580:C:O2'	36:BA:581:C:H5'	2.21	0.40
36:BA:645:C:O2	36:BA:645:C:C3'	2.69	0.40
36:BA:659:C:H6	36:BA:659:C:O5'	2.04	0.40
36:BA:670:A:H5'	48:BP:43:GLY:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:681:G:H2'	36:BA:682:G:H8	1.86	0.40
36:BA:771:G:O2'	36:BA:1355:G:C1'	2.69	0.40
36:BA:910:A:H2'	36:BA:911:A:C8	2.56	0.40
36:BA:1197:G:H2'	36:BA:1198:U:H6	1.85	0.40
36:BA:1440:G:H8	36:BA:1440:G:O5'	2.04	0.40
36:BA:1468:C:H2'	36:BA:1469:A:C8	2.57	0.40
36:BA:1512:U:O2	36:BA:1512:U:C2'	2.62	0.40
36:BA:1528(A):A:H8	36:BA:1529:G:N9	2.20	0.40
36:BA:1576:U:H2'	36:BA:1577:C:H6	1.74	0.40
36:BA:1606:G:H4'	36:BA:1608:A:C2	2.56	0.40
36:BA:1666:G:H3'	36:BA:1667:G:C8	2.56	0.40
36:BA:1762:A:H2'	36:BA:1762:A:N3	2.36	0.40
36:BA:1888:G:H5'	36:BA:1888:G:N3	2.36	0.40
36:BA:1907:G:C6	36:BA:1924:C:N3	2.89	0.40
36:BA:2052:G:N1	36:BA:2053:G:C5	2.89	0.40
36:BA:2100:G:H2'	36:BA:2100:G:N3	2.35	0.40
36:BA:2130:U:O2	36:BA:2159:G:C2	2.75	0.40
36:BA:2282:G:C5'	36:BA:2283:C:O4'	2.69	0.40
36:BA:2419:U:H2'	36:BA:2420:C:C6	2.55	0.40
36:BA:2567:G:H2'	36:BA:2568:C:C6	2.55	0.40
36:BA:2648:C:C2	36:BA:2673:G:C2	3.10	0.40
36:BA:2726:U:H6	47:BO:67:LYS:HZ3	1.69	0.40
36:BA:2743:C:N3	36:BA:2762:G:C2	2.89	0.40
37:BB:14:U:O2'	37:BB:15:A:OP1	2.35	0.40
38:BC:199:HIS:O	38:BC:201:PRO:HD3	2.21	0.40
39:BD:117:VAL:HG23	39:BD:129:ASN:N	2.36	0.40
39:BD:176:ARG:HG2	39:BD:176:ARG:NH1	2.35	0.40
39:BD:202:LYS:O	39:BD:202:LYS:HG3	2.21	0.40
41:BF:106:ARG:O	41:BF:107:LYS:HD3	2.21	0.40
41:BF:160:ASN:HB3	41:BF:163:VAL:CB	2.41	0.40
42:BG:36:LYS:HD2	42:BG:36:LYS:C	2.41	0.40
46:BN:101:HIS:O	46:BN:102:ALA:C	2.60	0.40
48:BP:59:LEU:O	48:BP:61:ARG:N	2.55	0.40
49:BQ:12:GLN:HE21	49:BQ:73:PRO:CD	2.24	0.40
49:BQ:60:ARG:C	58:BZ:177:PRO:HB2	2.42	0.40
51:BS:88:ASP:CG	51:BS:89:ARG:N	2.74	0.40
51:BS:89:ARG:CG	51:BS:92:TYR:HB3	2.52	0.40
54:BV:88:ARG:O	54:BV:90:PRO:CD	2.64	0.40
54:BV:95:LEU:HD22	54:BV:97:LYS:HG2	2.03	0.40
57:BY:76:CYS:CB	57:BY:77:PRO:HD2	2.51	0.40
58:BZ:129:SER:HA	58:BZ:130:PRO:HD3	1.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:9:G:OP2	5:CE:121:LYS:NZ	2.35	0.40
1:CA:102:G:C6	1:CA:103:C:C5	3.09	0.40
1:CA:128:G:H4'	17:CQ:3:LYS:HG2	2.04	0.40
1:CA:548:G:O2'	1:CA:549:C:H5'	2.20	0.40
1:CA:588:G:C6	1:CA:589:C:C4	3.09	0.40
1:CA:739:C:O2'	15:CO:42:HIS:ND1	2.54	0.40
1:CA:782:A:N6	1:CA:801:U:C6	2.89	0.40
1:CA:894:G:H2'	1:CA:895:G:C8	2.56	0.40
1:CA:924:C:O2'	1:CA:1502:A:N6	2.54	0.40
1:CA:1004:A:H5''	1:CA:1025:U:C5	2.56	0.40
1:CA:1148:U:H2'	1:CA:1149:C:C5'	2.51	0.40
1:CA:1291:G:OP1	7:CG:37:ASN:HB3	2.21	0.40
1:CA:1329:A:OP1	13:CM:28:ALA:HB3	2.22	0.40
1:CA:1473:A:O2'	1:CA:1474:G:H5'	2.20	0.40
2:CB:54:THR:O	2:CB:58:ILE:HG13	2.21	0.40
3:CC:140:ARG:HG3	3:CC:140:ARG:NH1	2.34	0.40
4:CD:68:TYR:CD2	4:CD:97:LEU:HD22	2.56	0.40
4:CD:127:THR:HG23	4:CD:132:ARG:HA	2.02	0.40
8:CH:136:GLU:O	8:CH:136:GLU:HG3	2.22	0.40
11:CK:38:ASN:O	11:CK:39:PRO:O	2.39	0.40
13:CM:19:LEU:O	13:CM:22:ILE:CD1	2.66	0.40
13:CM:68:GLY:O	13:CM:72:ALA:CB	2.67	0.40
16:CP:21:VAL:CG1	16:CP:33:ILE:HB	2.42	0.40
17:CQ:18:THR:O	17:CQ:19:VAL:HG13	2.21	0.40
17:CQ:31:LEU:O	17:CQ:32:TYR:HD2	2.05	0.40
24:CY:9:A:H62	24:CY:23:A:N6	2.17	0.40
24:CY:33:U:C3'	24:CY:34:G:H5''	2.51	0.40
25:CZ:20:VAL:CG2	25:CZ:21:ASP:N	2.85	0.40
25:CZ:69:GLU:HB3	25:CZ:273:HIS:ND1	2.36	0.40
25:CZ:151:GLU:HG2	25:CZ:170:VAL:HG11	2.03	0.40
25:CZ:201:GLU:O	25:CZ:205:ALA:CB	2.70	0.40
25:CZ:306:LYS:O	25:CZ:309:SER:N	2.33	0.40
25:CZ:326:GLU:O	63:CZ:502:KIR:H101	2.21	0.40
26:D0:20:ARG:HH11	26:D0:20:ARG:CG	2.34	0.40
29:D3:26:LEU:CB	29:D3:28:LEU:HD21	2.51	0.40
31:D5:58:LEU:O	31:D5:59:GLU:HB3	2.21	0.40
35:D9:1:MET:HG2	35:D9:31:LYS:O	2.20	0.40
35:D9:6:SER:HB2	36:DA:2466:C:H5''	2.02	0.40
36:DA:19:C:H5'	36:DA:554:U:OP1	2.21	0.40
36:DA:78:A:O2'	36:DA:79:G:H5'	2.22	0.40
36:DA:122:G:H2'	36:DA:123:G:H8	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:271(V):G:O2'	36:DA:271(W):G:H5'	2.21	0.40
36:DA:320:A:O2'	36:DA:321:G:H3'	2.22	0.40
36:DA:383:U:C6	36:DA:385:C:C5	3.09	0.40
36:DA:472:A:O2'	36:DA:508:G:N2	2.53	0.40
36:DA:491:G:H2'	36:DA:492:A:C8	2.56	0.40
36:DA:606:U:H6	36:DA:606:U:H3'	1.86	0.40
36:DA:614:U:O2	36:DA:614:U:O4'	2.39	0.40
36:DA:869:G:C2'	36:DA:870:A:H5'	2.51	0.40
36:DA:940:G:C3'	36:DA:941:A:H5''	2.51	0.40
36:DA:1093:G:H4'	43:DH:170:ARG:HH12	1.85	0.40
36:DA:1173:G:H3'	36:DA:1174:A:C5'	2.51	0.40
36:DA:1233:C:C2	36:DA:1234:U:C6	3.09	0.40
36:DA:1413:G:H2'	36:DA:1414:G:H8	1.85	0.40
36:DA:1469:A:O2'	36:DA:1470:G:H5'	2.21	0.40
36:DA:1491:G:O2'	36:DA:1492:G:H5'	2.22	0.40
36:DA:1785:A:C2	36:DA:2588:G:N2	2.88	0.40
36:DA:1844:C:O3'	39:DD:258:LYS:HE3	2.21	0.40
36:DA:2333:A:O4'	36:DA:2335:A:C4	2.74	0.40
36:DA:2359:C:C5	36:DA:2360:A:N7	2.89	0.40
36:DA:2359:C:H3'	36:DA:2360:A:H8	1.87	0.40
36:DA:2386:C:H2'	36:DA:2387:U:H6	1.86	0.40
36:DA:2436:G:O2'	36:DA:2437:U:H5'	2.21	0.40
36:DA:2698:U:H2'	36:DA:2699:C:C6	2.56	0.40
36:DA:2781:A:H5'	36:DA:2782:G:C5'	2.49	0.40
36:DA:2809:A:N6	36:DA:2891:G:H2'	2.36	0.40
37:DB:40:U:H3'	37:DB:41:U:C5'	2.52	0.40
38:DC:6:ARG:NH1	38:DC:6:ARG:CG	2.81	0.40
38:DC:59:ARG:CZ	38:DC:164:ARG:NH1	2.85	0.40
39:DD:62:TYR:CG	39:DD:63:ARG:N	2.89	0.40
39:DD:155:LEU:HD12	39:DD:155:LEU:N	2.35	0.40
39:DD:160:GLY:H	39:DD:196:VAL:HG12	1.86	0.40
39:DD:224:ALA:CB	39:DD:233:HIS:HB3	2.29	0.40
41:DF:8:GLN:HE21	41:DF:9:ILE:HB	1.86	0.40
41:DF:114:VAL:HG21	41:DF:181:LEU:HD21	2.03	0.40
41:DF:158:THR:OG1	41:DF:195:ASP:OD2	2.33	0.40
42:DG:77:ILE:C	42:DG:79:ASN:H	2.23	0.40
42:DG:133:LEU:CD1	42:DG:157:ILE:HD12	2.51	0.40
43:DH:20:ALA:HB1	43:DH:21:PRO:HD2	2.02	0.40
46:DN:67:LEU:O	46:DN:68:GLU:HG3	2.21	0.40
47:DO:104:ARG:C	47:DO:106:LEU:N	2.73	0.40
49:DQ:22:LYS:O	49:DQ:22:LYS:CG	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:32:TYR:OH	49:DQ:111:GLU:HB2	2.21	0.40
49:DQ:54:MET:CG	49:DQ:64:ILE:HD13	2.50	0.40
49:DQ:111:GLU:CD	49:DQ:133:ARG:HH22	2.23	0.40
50:DR:7:GLY:H	50:DR:8:ARG:NH2	2.19	0.40
53:DU:83:LEU:CD1	53:DU:83:LEU:N	2.83	0.40
54:DV:17:GLY:O	54:DV:18:LEU:HD13	2.21	0.40
55:DW:34:ASN:HD22	55:DW:34:ASN:HA	1.63	0.40
58:DZ:77:ASP:OD2	58:DZ:79:ARG:C	2.60	0.40
1:AA:35:G:C5	1:AA:36:C:C4	3.09	0.40
1:AA:37:U:O2'	1:AA:38:G:H5'	2.21	0.40
1:AA:186:C:O4'	20:AT:81:LYS:HE2	2.21	0.40
1:AA:193:C:H2'	1:AA:194:C:C6	2.56	0.40
1:AA:260:G:C2'	1:AA:261:U:H5'	2.51	0.40
1:AA:277:C:H5'	17:AQ:68:ARG:NH1	2.36	0.40
1:AA:806:C:H2'	1:AA:807:A:C8	2.57	0.40
1:AA:1281:U:H3'	1:AA:1282:C:C5	2.56	0.40
1:AA:1339:A:C2	22:AV:31:A:O4'	2.74	0.40
1:AA:1508:G:H1	1:AA:1527:C:N4	2.14	0.40
2:AB:8:LYS:HZ3	2:AB:217:ARG:NH1	2.18	0.40
2:AB:224:GLN:C	2:AB:226:ARG:N	2.73	0.40
3:AC:64:VAL:CG1	3:AC:66:VAL:CG2	2.98	0.40
3:AC:69:HIS:HE1	3:AC:104:GLN:OE1	2.05	0.40
3:AC:150:LYS:O	3:AC:151:VAL:HG23	2.21	0.40
5:AE:110:LEU:HD23	5:AE:110:LEU:HA	1.90	0.40
7:AG:16:LEU:HD11	9:AI:42:ARG:HA	1.99	0.40
12:AL:34:ARG:O	12:AL:61:THR:HG23	2.22	0.40
18:AR:52:PRO:C	18:AR:54:ARG:N	2.72	0.40
21:AU:18:TYR:CD1	21:AU:24:ARG:HG3	2.56	0.40
24:AY:42:U:H6	24:AY:42:U:H5'	1.86	0.40
29:B3:52:HIS:CD2	29:B3:52:HIS:N	2.85	0.40
31:B5:17:ASP:O	31:B5:20:ARG:O	2.39	0.40
31:B5:41:PRO:HA	31:B5:42:PRO:HD3	1.95	0.40
31:B5:41:PRO:CG	31:B5:44:THR:OG1	2.49	0.40
34:B8:5:LYS:HB3	36:BA:254:G:O6	2.21	0.40
36:BA:139:G:H3'	36:BA:139(A):G:H5''	2.02	0.40
36:BA:222:A:N1	36:BA:233:A:H5''	2.37	0.40
36:BA:541:C:H2'	36:BA:542:C:C6	2.56	0.40
36:BA:583:G:C6	36:BA:584:C:N4	2.90	0.40
36:BA:723:G:C5	36:BA:724:U:C4	3.10	0.40
36:BA:889:C:O2'	36:BA:890:A:P	2.79	0.40
36:BA:978:G:H2'	36:BA:979:G:O4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1091:G:N2	36:BA:1101:U:O2'	2.55	0.40
36:BA:1216:G:C2	36:BA:1234:U:H1'	2.56	0.40
36:BA:1307:A:C4	36:BA:1622:G:N2	2.89	0.40
36:BA:1330:C:O2	36:BA:1330:C:H2'	2.21	0.40
36:BA:1355:G:O6	36:BA:1377:G:C2	2.75	0.40
36:BA:1427:A:C1'	36:BA:1428:C:C5	3.04	0.40
36:BA:1434:A:H61	36:BA:1558:A:N6	2.19	0.40
36:BA:1547:C:O2'	36:BA:1548:C:H5'	2.21	0.40
36:BA:1652:A:H2'	36:BA:1653:G:C5'	2.47	0.40
36:BA:1787:A:H4'	36:BA:2589:A:H4'	2.04	0.40
36:BA:1836:C:O5'	36:BA:1836:C:H6	2.04	0.40
36:BA:1930:G:O2'	36:BA:1931:U:P	2.79	0.40
36:BA:2133:G:C2	36:BA:2157:G:O6	2.75	0.40
36:BA:2179:C:O2	36:BA:2179:C:O4'	2.40	0.40
36:BA:2201:C:C4	36:BA:2202:C:N4	2.89	0.40
36:BA:2307:G:N2	36:BA:2308:G:C5'	2.84	0.40
36:BA:2371:G:N1	36:BA:2372:G:C5	2.90	0.40
36:BA:2446:G:H8	36:BA:2446:G:O5'	2.03	0.40
36:BA:2457:U:H2'	36:BA:2458:G:H5'	2.02	0.40
36:BA:2458:G:N3	36:BA:2490:G:N2	2.69	0.40
36:BA:2667:C:H2'	36:BA:2668:G:H8	1.87	0.40
36:BA:2704:C:H2'	36:BA:2705:A:C8	2.56	0.40
36:BA:2741:A:H2'	36:BA:2742:C:O4'	2.20	0.40
37:BB:15:A:H3'	37:BB:16:G:C5'	2.51	0.40
37:BB:21:G:O2'	37:BB:22:U:H5'	2.21	0.40
39:BD:76:PRO:HB2	39:BD:116:GLN:HE21	1.86	0.40
39:BD:147:LEU:HB2	39:BD:155:LEU:HD11	2.03	0.40
40:BE:7:VAL:CG1	40:BE:27:LEU:HB3	2.52	0.40
40:BE:69:LYS:C	40:BE:71:GLY:H	2.19	0.40
40:BE:101:ARG:CD	40:BE:171:GLU:HA	2.51	0.40
41:BF:39:TRP:CD1	41:BF:101:LEU:HB2	2.56	0.40
41:BF:53:THR:CG2	41:BF:56:GLU:HG3	2.42	0.40
41:BF:97:TYR:N	41:BF:97:TYR:HD2	2.18	0.40
41:BF:120:GLU:HB3	41:BF:122:LYS:NZ	2.37	0.40
41:BF:167:ALA:HB1	41:BF:173:VAL:CG1	2.51	0.40
42:BG:27:ASN:ND2	42:BG:29:TRP:CB	2.83	0.40
46:BN:47:ALA:C	46:BN:49:GLY:N	2.74	0.40
47:BO:12:ASP:O	47:BO:14:THR:N	2.54	0.40
50:BR:33:ARG:O	50:BR:34:ILE:HD13	2.21	0.40
50:BR:77:ARG:C	50:BR:79:LEU:N	2.73	0.40
52:BT:110:ILE:HG22	52:BT:111:ARG:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:13:ARG:HH11	54:BV:13:ARG:CG	2.33	0.40
54:BV:58:VAL:O	54:BV:59:ALA:HB2	2.20	0.40
55:BW:34:ASN:HD22	55:BW:34:ASN:HA	1.65	0.40
58:BZ:109:ALA:O	58:BZ:145:GLU:OE2	2.40	0.40
58:BZ:132:ASN:C	58:BZ:134:PRO:CD	2.90	0.40
1:CA:38:G:H4'	1:CA:547:A:N6	2.36	0.40
1:CA:59:A:H3'	1:CA:331:G:H22	1.85	0.40
1:CA:115:G:O2'	1:CA:116:A:OP2	2.40	0.40
1:CA:187:C:N4	1:CA:191:G:C6	2.89	0.40
1:CA:204:U:O2	1:CA:204:U:O4'	2.39	0.40
1:CA:448:A:C4	1:CA:487:A:C2	3.09	0.40
1:CA:547:A:H1'	1:CA:548:G:O4'	2.22	0.40
1:CA:564:C:O2'	1:CA:565:U:H5'	2.21	0.40
1:CA:1278:U:C5'	1:CA:1279:A:C8	3.05	0.40
1:CA:1332:A:O2'	1:CA:1333:A:H5'	2.22	0.40
1:CA:1414:U:H2'	1:CA:1415:G:H8	1.85	0.40
1:CA:1499:A:O4'	1:CA:1520:G:C5'	2.70	0.40
2:CB:54:THR:O	2:CB:57:PHE:N	2.54	0.40
2:CB:92:TYR:HD1	2:CB:93:VAL:N	2.17	0.40
4:CD:29:PRO:O	4:CD:30:LYS:CB	2.68	0.40
4:CD:160:GLN:H	4:CD:160:GLN:HG3	1.47	0.40
4:CD:165:MET:HE3	4:CD:176:LEU:CD2	2.50	0.40
7:CG:94:ARG:HB2	7:CG:95:ARG:H	1.75	0.40
8:CH:77:GLU:CG	8:CH:78:GLN:N	2.84	0.40
8:CH:81:HIS:HB2	8:CH:138:TRP:CE3	2.56	0.40
9:CI:88:TYR:O	9:CI:89:ASN:ND2	2.54	0.40
11:CK:66:LEU:O	11:CK:69:ALA:N	2.54	0.40
12:CL:20:LYS:N	12:CL:20:LYS:CD	2.71	0.40
13:CM:66:LEU:O	13:CM:67:GLU:C	2.59	0.40
13:CM:105:THR:O	13:CM:106:ASN:CB	2.68	0.40
16:CP:3:LYS:CB	16:CP:65:GLN:O	2.70	0.40
18:CR:59:SER:O	18:CR:62:GLU:HB2	2.20	0.40
22:CV:47:U:O2'	22:CV:48:C:H5'	2.21	0.40
25:CZ:147:LEU:HD22	25:CZ:147:LEU:N	2.37	0.40
25:CZ:325:LYS:HD2	25:CZ:331:HIS:HB2	2.02	0.40
26:D0:75:LEU:HA	26:D0:75:LEU:HD23	1.77	0.40
27:D1:3:LYS:CG	27:D1:4:VAL:HG12	2.45	0.40
28:D2:31:GLU:O	28:D2:35:LEU:HB3	2.21	0.40
32:D6:53:LYS:HD3	32:D6:54:ILE:N	2.23	0.40
33:D7:29:LYS:HE3	36:DA:210:C:P	2.62	0.40
34:D8:4:MET:CE	34:D8:61:LEU:CD2	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:8:LYS:HA	34:D8:11:LYS:CB	2.47	0.40
36:DA:14:A:H5''	36:DA:15:G:OP2	2.21	0.40
36:DA:52:A:C2	36:DA:178:G:N3	2.89	0.40
36:DA:86:C:H4'	36:DA:104:U:O2	2.20	0.40
36:DA:218:A:H2	36:DA:235:U:H4'	1.85	0.40
36:DA:272(H):C:C2'	36:DA:272(I):U:C5'	2.93	0.40
36:DA:307:G:H21	36:DA:330:A:H62	1.69	0.40
36:DA:355:G:H2'	36:DA:356:G:C8	2.56	0.40
36:DA:458:G:HO2'	36:DA:469:G:H1	1.70	0.40
36:DA:472:A:H5'	36:DA:472:A:C8	2.52	0.40
36:DA:605:C:O2'	36:DA:606:U:H5'	2.22	0.40
36:DA:693:C:H2'	36:DA:694:U:C6	2.56	0.40
36:DA:772:C:H5'	36:DA:1355:G:H4'	2.03	0.40
36:DA:996:A:N6	36:DA:1160:G:C5	2.89	0.40
36:DA:997:G:C2	36:DA:998:C:C4	3.09	0.40
36:DA:1099:G:H2'	36:DA:1100:C:O4'	2.20	0.40
36:DA:1131:G:OP1	46:DN:80:GLY:N	2.50	0.40
36:DA:1373:A:C2'	36:DA:1374:G:H5'	2.51	0.40
36:DA:1413:G:H2'	36:DA:1414:G:C8	2.56	0.40
36:DA:1492:G:C2	36:DA:1499:C:O2	2.75	0.40
36:DA:1560:G:N3	36:DA:1560:G:H2'	2.36	0.40
36:DA:1667:G:OP2	36:DA:1667:G:C8	2.64	0.40
36:DA:1701:A:H2'	36:DA:1702:G:H5'	2.02	0.40
36:DA:1973:G:C6	36:DA:1974:C:N4	2.90	0.40
36:DA:2052:G:C6	36:DA:2053:G:N7	2.89	0.40
36:DA:2063:C:C2'	36:DA:2064:C:H5'	2.51	0.40
36:DA:2177:C:H2'	36:DA:2178:C:O2	2.20	0.40
36:DA:2188:C:H2'	36:DA:2189:U:C2	2.56	0.40
36:DA:2189:U:C2'	36:DA:2190:G:C4'	2.98	0.40
36:DA:2636:U:H1'	36:DA:2783:G:H22	1.85	0.40
36:DA:2646:C:OP2	36:DA:2732:G:O2'	2.39	0.40
36:DA:2657:A:C5	36:DA:2665:A:C5	3.09	0.40
37:DB:85:G:C4	37:DB:93:G:C2	3.09	0.40
38:DC:15:ASP:O	38:DC:18:LYS:N	2.52	0.40
39:DD:46:GLN:N	39:DD:46:GLN:OE1	2.55	0.40
39:DD:160:GLY:N	39:DD:197:GLY:O	2.55	0.40
42:DG:97:ASP:N	42:DG:97:ASP:OD1	2.55	0.40
43:DH:141:VAL:O	43:DH:145:ALA:HB2	2.22	0.40
49:DQ:42:ILE:HD12	49:DQ:42:ILE:HA	1.87	0.40
53:DU:106:PHE:C	53:DU:108:GLU:N	2.75	0.40
54:DV:57:VAL:HG23	54:DV:98:GLU:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DX:23:GLU:O	56:DX:25:LYS:N	2.52	0.40
57:DY:6:HIS:N	57:DY:6:HIS:HD2	2.18	0.40
58:DZ:68:PRO:HB2	58:DZ:91:LEU:HD12	2.03	0.40
1:AA:27:G:H2'	1:AA:28:G:H8	1.87	0.40
1:AA:59:A:H3'	1:AA:60:A:C5'	2.52	0.40
1:AA:156:G:H1'	1:AA:166:G:H22	1.85	0.40
1:AA:159:G:H2'	1:AA:161:A:OP2	2.21	0.40
1:AA:194:C:H5''	20:AT:65:LYS:CE	2.50	0.40
1:AA:219:C:H2'	1:AA:220:G:O5'	2.21	0.40
1:AA:341:C:N3	1:AA:349:A:C2	2.89	0.40
1:AA:405:U:H5''	1:AA:406:G:O4'	2.21	0.40
1:AA:418:C:C2'	1:AA:419:C:O5'	2.69	0.40
1:AA:514:C:O2	1:AA:538:G:C2	2.75	0.40
1:AA:652:U:O2'	1:AA:653:A:C5'	2.66	0.40
1:AA:1240:U:H3'	1:AA:1241:G:H5'	2.03	0.40
1:AA:1416:G:C5	1:AA:1417:G:C5	3.09	0.40
1:AA:1434:A:C2'	1:AA:1435:G:C8	3.00	0.40
1:AA:1488:G:H2'	1:AA:1489:G:C8	2.55	0.40
2:AB:213:LEU:HD23	2:AB:213:LEU:C	2.42	0.40
4:AD:26:CYS:O	4:AD:31:CYS:HB2	2.21	0.40
4:AD:108:LEU:O	4:AD:110:PHE:CD1	2.75	0.40
7:AG:31:MET:SD	7:AG:36:LYS:CA	3.10	0.40
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD22	2.04	0.40
11:AK:21:ILE:N	11:AK:21:ILE:CD1	2.85	0.40
11:AK:102:GLY:O	11:AK:103:LEU:HD22	2.22	0.40
13:AM:40:ASN:OD1	13:AM:41:PRO:CD	2.65	0.40
13:AM:44:ARG:O	13:AM:46:LYS:N	2.54	0.40
13:AM:45:VAL:HA	13:AM:48:LEU:CD1	2.39	0.40
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.37	0.40
16:AP:51:VAL:O	16:AP:53:VAL:N	2.53	0.40
17:AQ:27:PHE:CD1	17:AQ:27:PHE:O	2.75	0.40
19:AS:46:GLY:H	19:AS:62:ILE:HG23	1.85	0.40
22:AW:8:U:O4	22:AW:15:G:O6	2.40	0.40
24:AY:1:G:N3	24:AY:1:G:C2'	2.82	0.40
25:AZ:98:GLN:O	25:AZ:98:GLN:CG	2.63	0.40
25:AZ:135:MET:HE1	25:AZ:150:VAL:HB	2.03	0.40
25:AZ:147:LEU:N	25:AZ:147:LEU:HD22	2.35	0.40
25:AZ:155:ARG:HB3	25:AZ:165:GLY:O	2.22	0.40
30:B4:4:GLY:N	30:B4:6:HIS:CE1	2.90	0.40
32:B6:22:ALA:CB	32:B6:39:TYR:CZ	3.04	0.40
33:B7:10:ARG:HD3	36:BA:771:G:OP1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:271(F):C:C2'	36:BA:271(G):C:H5'	2.51	0.40
36:BA:274:G:N3	36:BA:274:G:C2'	2.84	0.40
36:BA:405:U:O2	36:BA:405:U:O4'	2.38	0.40
36:BA:479:A:H1'	36:BA:481:G:H5''	2.02	0.40
36:BA:539:G:H2'	36:BA:540:C:C6	2.56	0.40
36:BA:864:G:OP2	49:BQ:22:LYS:HG3	2.21	0.40
36:BA:940:G:C3'	36:BA:941:A:H5''	2.52	0.40
36:BA:1062:G:N1	36:BA:1063:G:H1'	2.36	0.40
36:BA:1240:U:HO2'	36:BA:1241:A:P	2.45	0.40
36:BA:1485:G:O2'	36:BA:1505:C:N4	2.54	0.40
36:BA:1664:A:N6	36:BA:1996:C:H42	2.17	0.40
36:BA:2037:G:O5'	36:BA:2037:G:H8	2.04	0.40
36:BA:2122:U:C2	36:BA:2123:G:N7	2.89	0.40
36:BA:2123:G:C4	36:BA:2124:G:C8	3.09	0.40
36:BA:2181:G:O2'	36:BA:2182:G:H5'	2.22	0.40
36:BA:2358:G:C2	36:BA:2359:C:H1'	2.54	0.40
36:BA:2575:C:H5''	36:BA:2576:G:OP2	2.22	0.40
36:BA:2881:C:C2	36:BA:2882:A:N7	2.90	0.40
36:BA:2889:C:H2'	36:BA:2891:G:O4'	2.22	0.40
38:BC:18:LYS:HE3	38:BC:20:TYR:CD2	2.56	0.40
38:BC:61:THR:O	38:BC:163:PHE:HE2	2.03	0.40
38:BC:152:ILE:O	38:BC:156:ILE:HG13	2.21	0.40
39:BD:187:GLY:C	39:BD:189:CYS:H	2.25	0.40
39:BD:267:SER:HA	39:BD:270:ILE:HG13	2.02	0.40
41:BF:25:PRO:HB3	41:BF:119:ARG:HB2	2.03	0.40
41:BF:198:ALA:HA	41:BF:201:VAL:CG1	2.51	0.40
42:BG:26:GLN:HG2	42:BG:27:ASN:H	1.87	0.40
42:BG:37:VAL:HG13	42:BG:159:VAL:HA	2.03	0.40
46:BN:47:ALA:HB1	46:BN:119:ARG:NH1	2.37	0.40
48:BP:23:PRO:HA	48:BP:29:LYS:C	2.42	0.40
49:BQ:98:LYS:O	49:BQ:99:PRO:C	2.60	0.40
49:BQ:118:LEU:CD1	49:BQ:131:ILE:HG23	2.51	0.40
50:BR:110:PRO:C	50:BR:111:LEU:HD12	2.41	0.40
51:BS:98:VAL:O	51:BS:99:LYS:HB2	2.21	0.40
52:BT:22:PHE:O	52:BT:23:ARG:HB3	2.20	0.40
54:BV:19:LYS:HZ3	54:BV:20:LEU:H	1.69	0.40
54:BV:58:VAL:HB	54:BV:97:LYS:HB2	2.04	0.40
54:BV:69:LYS:HB2	54:BV:88:ARG:CD	2.42	0.40
55:BW:80:PRO:O	55:BW:80:PRO:HG2	2.21	0.40
58:BZ:88:PHE:N	58:BZ:88:PHE:CD1	2.90	0.40
1:CA:57:G:N1	1:CA:356:A:N1	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:161:A:H2'	1:CA:162:A:C8	2.57	0.40
1:CA:390:C:C4'	16:CP:28:ARG:NH1	2.83	0.40
1:CA:438:G:H4'	4:CD:123:HIS:HD1	1.87	0.40
1:CA:446:G:O2'	1:CA:447:G:H5'	2.20	0.40
1:CA:472:A:C8	1:CA:473:G:C8	3.10	0.40
1:CA:495:A:C2	1:CA:496:A:C5	3.10	0.40
1:CA:601:C:C2	1:CA:638:G:N2	2.90	0.40
1:CA:681:C:H2'	1:CA:682:G:H8	1.86	0.40
1:CA:734:G:O5'	1:CA:734:G:H8	2.04	0.40
1:CA:799:G:C6	1:CA:800:G:C4	3.10	0.40
1:CA:892:A:C4	1:CA:893:C:C5	3.09	0.40
1:CA:1056:U:OP1	3:CC:163:ALA:HB2	2.22	0.40
1:CA:1114:C:C2	1:CA:1115:C:C5	3.09	0.40
1:CA:1163:C:N3	1:CA:1174:G:C2	2.90	0.40
1:CA:1316:G:H3'	1:CA:1317:C:C5'	2.52	0.40
2:CB:55:PHE:HE1	2:CB:218:ALA:HA	1.86	0.40
2:CB:194:PRO:HG2	2:CB:195:ASP:N	2.32	0.40
2:CB:208:ILE:H	2:CB:208:ILE:HG13	1.75	0.40
3:CC:30:ARG:HD3	14:CN:38:GLY:HA3	2.03	0.40
3:CC:57:ILE:O	3:CC:57:ILE:HG22	2.20	0.40
3:CC:112:SER:HA	3:CC:183:ASP:OD1	2.22	0.40
4:CD:103:ASN:O	4:CD:104:VAL:C	2.60	0.40
4:CD:110:PHE:N	4:CD:110:PHE:CD1	2.89	0.40
7:CG:69:VAL:O	7:CG:69:VAL:CG1	2.58	0.40
9:CI:15:ALA:HA	9:CI:65:VAL:HA	2.03	0.40
11:CK:23:ALA:HB2	11:CK:28:THR:HG23	2.03	0.40
12:CL:33:ARG:O	12:CL:85:ILE:HB	2.22	0.40
13:CM:99:ARG:O	13:CM:100:GLY:O	2.39	0.40
14:CN:12:ARG:HB3	14:CN:14:PRO:CD	2.51	0.40
14:CN:45:ARG:HG3	14:CN:49:HIS:CE1	2.57	0.40
16:CP:5:ARG:HB2	16:CP:6:LEU:H	1.66	0.40
17:CQ:6:LEU:HB3	17:CQ:23:VAL:HG11	2.03	0.40
19:CS:10:PHE:CE1	19:CS:39:THR:OG1	2.74	0.40
22:CV:68:C:H3'	22:CV:69:G:H5''	1.99	0.40
22:CW:31:A:N1	22:CW:40:C:C4	2.89	0.40
23:CX:22:A:C4	23:CX:23:C:C5	3.09	0.40
24:CZ:42:U:H5'	24:CZ:42:U:H6	1.86	0.40
25:CZ:33:TYR:O	25:CZ:34:VAL:C	2.60	0.40
25:CZ:215:ARG:O	25:CZ:216:ASP:C	2.59	0.40
25:CZ:238:ALA:O	25:CZ:287:GLY:HA2	2.21	0.40
25:CZ:323:LEU:HG	25:CZ:327:GLU:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:62:VAL:CG2	27:D1:63:ALA:N	2.83	0.40
32:D6:19:ARG:CG	32:D6:20:ASN:N	2.70	0.40
32:D6:36:LEU:C	32:D6:36:LEU:CD2	2.89	0.40
34:D8:6:THR:HG21	34:D8:11:LYS:HZ3	1.87	0.40
34:D8:13:ARG:HB3	48:DP:63:PRO:CA	2.51	0.40
36:DA:9:U:O2'	36:DA:10:G:H8	2.05	0.40
36:DA:195:A:OP1	48:DP:46:LYS:NZ	2.38	0.40
36:DA:240:G:O2'	36:DA:257:A:N6	2.55	0.40
36:DA:340:A:H2'	36:DA:341:G:O4'	2.22	0.40
36:DA:426:C:C2'	36:DA:427:U:H5'	2.52	0.40
36:DA:751:A:H5'	55:DW:90:ARG:CA	2.45	0.40
36:DA:979:G:C2	36:DA:982:C:H5	2.40	0.40
36:DA:1226:A:N7	36:DA:1227:G:H1'	2.37	0.40
36:DA:1291:C:C3'	36:DA:1292:U:H5'	2.50	0.40
36:DA:1494:A:HO2'	36:DA:1496:A:H2	1.70	0.40
36:DA:1599:C:C2	36:DA:1600:C:C5	3.09	0.40
36:DA:1836:C:O2'	36:DA:1837:C:H5'	2.22	0.40
36:DA:1862:G:N2	36:DA:1881:C:O2	2.55	0.40
36:DA:2011:U:OP2	55:DW:16:LYS:HE3	2.21	0.40
36:DA:2043:C:H2'	36:DA:2044:C:H6	1.86	0.40
36:DA:2111:C:C4	36:DA:2145:C:C2	3.10	0.40
36:DA:2315:G:H2'	36:DA:2316:C:H6	1.86	0.40
36:DA:2710:C:H2'	36:DA:2711:A:O4'	2.21	0.40
36:DA:2756:U:O2'	36:DA:2757:A:C5'	2.69	0.40
36:DA:2870:C:H2'	36:DA:2871:C:C5'	2.52	0.40
37:DB:29:A:C2	37:DB:56:G:C2	3.10	0.40
37:DB:68:C:C2	37:DB:69:G:C8	3.09	0.40
37:DB:104:U:H1'	58:DZ:29:TYR:OH	2.21	0.40
38:DC:131:LEU:HD22	38:DC:136:LEU:HD13	2.03	0.40
38:DC:206:GLY:CA	38:DC:210:ARG:HH22	2.19	0.40
39:DD:8:PRO:HB3	39:DD:14:ARG:HB3	2.02	0.40
41:DF:93:LYS:O	41:DF:94:PRO:C	2.59	0.40
46:DN:62:VAL:O	46:DN:63:THR:O	2.39	0.40
48:DP:32:THR:O	48:DP:33:ARG:C	2.60	0.40
48:DP:115:LEU:CG	48:DP:116:GLY:N	2.82	0.40
49:DQ:59:ARG:HG3	49:DQ:59:ARG:HH11	1.86	0.40
49:DQ:134:ARG:O	49:DQ:137:TYR:HB2	2.22	0.40
50:DR:32:GLY:HA3	50:DR:116:LEU:HG	1.99	0.40
51:DS:85:VAL:CG2	51:DS:86:ALA:N	2.84	0.40
51:DS:101:LEU:HD12	51:DS:101:LEU:C	2.42	0.40
52:DT:19:LEU:H	52:DT:19:LEU:HG	1.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:91:ARG:O	52:DT:117:ASP:HB3	2.21	0.40
53:DU:88:ILE:CB	53:DU:90:VAL:HG23	2.49	0.40
54:DV:38:LEU:O	54:DV:51:VAL:HG12	2.21	0.40
55:DW:14:PRO:HG2	55:DW:78:GLU:OE1	2.22	0.40
56:DX:11:PRO:HG2	56:DX:13:LEU:CD2	2.51	0.40
56:DX:60:ARG:HA	56:DX:75:ASP:OD2	2.21	0.40
57:DY:85:VAL:CG1	57:DY:86:ARG:N	2.83	0.40
58:DZ:125:LEU:HD12	58:DZ:126:VAL:N	2.36	0.40
1:AA:15:G:H1	1:AA:920:U:H3	1.70	0.40
1:AA:34:C:C1'	12:AL:32:PHE:HE2	2.35	0.40
1:AA:218:C:C5'	1:AA:470:C:H42	2.33	0.40
1:AA:292:G:H1	1:AA:308:C:N4	2.18	0.40
1:AA:424:G:C2	1:AA:425:G:C5	3.09	0.40
1:AA:517:G:C5	1:AA:531:U:O4'	2.75	0.40
1:AA:935:A:C2	1:AA:936:C:C4	3.10	0.40
1:AA:940:C:H6	1:AA:940:C:O5'	2.04	0.40
1:AA:1010:G:N2	1:AA:1020:U:H1'	2.36	0.40
1:AA:1219:U:H2'	1:AA:1220:G:H8	1.87	0.40
2:AB:21:ARG:C	2:AB:22:LYS:HG2	2.41	0.40
2:AB:92:TYR:CD1	2:AB:93:VAL:N	2.89	0.40
3:AC:58:GLU:O	3:AC:65:ALA:HB2	2.22	0.40
5:AE:51:VAL:HB	5:AE:52:PRO:CD	2.51	0.40
5:AE:133:TYR:HD2	5:AE:133:TYR:HA	1.73	0.40
5:AE:137:GLU:O	5:AE:140:ARG:HB3	2.21	0.40
8:AH:1:MET:O	8:AH:2:LEU:O	2.40	0.40
8:AH:25:ASP:C	8:AH:26:VAL:HG12	2.42	0.40
11:AK:23:ALA:HA	11:AK:28:THR:HA	2.04	0.40
12:AL:117:ARG:O	12:AL:118:SER:C	2.59	0.40
13:AM:15:VAL:O	13:AM:16:ASP:C	2.59	0.40
16:AP:50:LYS:O	16:AP:51:VAL:HG22	2.21	0.40
20:AT:71:THR:CG2	20:AT:72:LEU:H	2.34	0.40
20:AT:100:ILE:N	20:AT:100:ILE:CD1	2.84	0.40
22:AW:62:C:O2'	22:AW:63:G:H5'	2.22	0.40
27:B1:68:PRO:HG2	27:B1:69:LYS:H	1.86	0.40
27:B1:86:SER:O	27:B1:89:GLU:N	2.43	0.40
28:B2:38:GLN:HB3	28:B2:44:LEU:HD22	2.04	0.40
29:B3:54:VAL:HG12	29:B3:55:ARG:N	2.36	0.40
30:B4:35:VAL:CG1	30:B4:36:CYS:N	2.84	0.40
35:B9:19:ARG:C	35:B9:21:GLY:N	2.70	0.40
36:BA:99:U:H4'	36:BA:102:G:H1'	2.03	0.40
36:BA:203:C:N4	36:BA:204:A:C6	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:292:C:C2'	36:BA:293:U:H5'	2.51	0.40
36:BA:296:C:N4	36:BA:343:C:N4	2.70	0.40
36:BA:383:U:C6	36:BA:385:C:C5	3.09	0.40
36:BA:687:C:C5	36:BA:688:U:C4	3.10	0.40
36:BA:693:C:C4	36:BA:694:U:C4	3.10	0.40
36:BA:952:G:C5'	49:BQ:16:ARG:HH22	2.35	0.40
36:BA:966:G:C1'	36:BA:2267:A:N6	2.83	0.40
36:BA:980:A:C5	36:BA:981:A:C2	3.10	0.40
36:BA:1209:G:O3'	36:BA:1212:G:H5'	2.22	0.40
36:BA:1450:G:H2'	36:BA:1450(A):C:H6	1.87	0.40
36:BA:1488:G:C6	36:BA:1489:U:C4	3.10	0.40
36:BA:1772:G:H2'	36:BA:1773:A:H4'	2.02	0.40
36:BA:1785:A:C2	36:BA:2588:G:N2	2.90	0.40
36:BA:1788:C:C2'	36:BA:1789:A:H5'	2.52	0.40
36:BA:1889:A:H1'	36:BA:2087:G:O4'	2.21	0.40
36:BA:1930:G:HO2'	36:BA:1931:U:P	2.43	0.40
36:BA:2313:C:C6	36:BA:2313:C:C3'	3.05	0.40
36:BA:2406:U:O4	48:BP:72:PRO:HD2	2.22	0.40
36:BA:2468:G:H2'	36:BA:2476:A:N7	2.36	0.40
36:BA:2476:A:H2'	36:BA:2476:A:N3	2.35	0.40
36:BA:2521:C:O2	36:BA:2521:C:H2'	2.22	0.40
36:BA:2640:G:H5''	46:BN:74:ARG:HD2	2.02	0.40
36:BA:2740:A:C6	36:BA:2741:A:C6	3.09	0.40
36:BA:2787:C:H1'	40:BE:61:ARG:CD	2.51	0.40
36:BA:2880:C:O2	50:BR:92:GLY:HA3	2.21	0.40
37:BB:19:G:H3'	37:BB:20:C:H6	1.87	0.40
37:BB:73:A:C6	37:BB:74:U:C2	3.09	0.40
38:BC:171:ILE:HG12	38:BC:196:LEU:HD21	2.04	0.40
38:BC:191:ALA:HA	38:BC:194:ARG:NE	2.37	0.40
39:BD:72:LYS:HB3	39:BD:75:ILE:HB	2.03	0.40
39:BD:117:VAL:HG21	39:BD:128:GLY:C	2.41	0.40
39:BD:147:LEU:CG	39:BD:183:ARG:HH12	2.29	0.40
40:BE:98:PRO:HD3	40:BE:175:VAL:CG1	2.51	0.40
41:BF:21:ALA:C	41:BF:23:ASP:H	2.24	0.40
41:BF:154:VAL:HG22	41:BF:191:ARG:O	2.22	0.40
47:BO:31:LYS:HB3	47:BO:32:TYR:CE1	2.56	0.40
48:BP:52:GLU:HG3	48:BP:53:GLY:H	1.87	0.40
48:BP:80:TYR:N	48:BP:80:TYR:HD2	2.19	0.40
48:BP:110:TYR:CE1	48:BP:111:ARG:CZ	3.05	0.40
49:BQ:43:THR:O	49:BQ:44:ALA:C	2.60	0.40
49:BQ:54:MET:O	49:BQ:55:VAL:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:129:THR:O	49:BQ:130:LYS:HB2	2.21	0.40
52:BT:25:GLY:O	52:BT:48:ILE:HG22	2.21	0.40
52:BT:32:TYR:O	52:BT:42:ILE:HA	2.22	0.40
53:BU:5:LYS:HE2	53:BU:7:GLY:H	1.86	0.40
53:BU:92:ARG:NH2	54:BV:10:LYS:CA	2.83	0.40
54:BV:35:LEU:C	54:BV:37:VAL:N	2.75	0.40
55:BW:29:LEU:HG	55:BW:33:ARG:CD	2.52	0.40
55:BW:80:PRO:O	55:BW:100:THR:CG2	2.70	0.40
56:BX:35:THR:O	56:BX:39:ILE:HB	2.21	0.40
57:BY:6:HIS:NE2	57:BY:30:VAL:HG11	2.37	0.40
1:CA:39:G:C2'	1:CA:40:C:H5'	2.52	0.40
1:CA:242:C:C2'	1:CA:243:A:H5'	2.50	0.40
1:CA:266:G:O2'	1:CA:267:C:OP2	2.32	0.40
1:CA:368:U:H5	25:CZ:234:ARG:CD	2.03	0.40
1:CA:687:A:H4'	1:CA:688:G:O5'	2.21	0.40
1:CA:697:U:C4'	1:CA:786:G:H4'	2.51	0.40
1:CA:973:G:O6	1:CA:974:A:N6	2.54	0.40
1:CA:991:U:H6	1:CA:991:U:OP2	2.03	0.40
1:CA:1004:A:O5'	1:CA:1025:U:C5	2.74	0.40
1:CA:1014:A:H4'	19:CS:14:HIS:CD2	2.56	0.40
1:CA:1016:A:H2'	1:CA:1017:G:H5'	2.04	0.40
1:CA:1110:A:H2'	1:CA:1111:A:O4'	2.22	0.40
1:CA:1133:G:N3	1:CA:1142:G:N2	2.70	0.40
1:CA:1219:U:H2'	1:CA:1220:G:H8	1.86	0.40
2:CB:25:ASN:HA	2:CB:26:PRO:HD2	1.86	0.40
2:CB:171:ALA:HA	2:CB:174:VAL:HB	2.02	0.40
4:CD:121:VAL:O	4:CD:134:ASP:CA	2.67	0.40
7:CG:16:LEU:HD11	9:CI:42:ARG:HA	1.96	0.40
9:CI:37:PHE:CE2	9:CI:74:ILE:HD11	2.56	0.40
9:CI:55:ALA:C	9:CI:57:GLY:N	2.75	0.40
10:CJ:76:ASN:HA	10:CJ:77:PRO:HD2	1.95	0.40
11:CK:101:SER:OG	11:CK:103:LEU:HD23	2.20	0.40
12:CL:55:VAL:CG2	12:CL:56:ALA:N	2.84	0.40
12:CL:123:LYS:O	12:CL:125:PRO:HD3	2.21	0.40
13:CM:49:THR:HB	13:CM:52:GLU:CG	2.43	0.40
17:CQ:31:LEU:HG	17:CQ:32:TYR:CD2	2.57	0.40
17:CQ:60:ILE:HG12	17:CQ:61:GLU:N	2.37	0.40
20:CT:100:ILE:N	20:CT:100:ILE:CD1	2.85	0.40
21:CU:18:TYR:CD1	21:CU:24:ARG:HG3	2.56	0.40
23:CX:27:A:OP2	23:CX:27:A:C8	2.74	0.40
25:CZ:310:ILE:HG13	25:CZ:381:GLU:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:311:THR:HB	25:CZ:312:PRO:HD2	2.04	0.40
27:D1:88:LYS:HD3	27:D1:88:LYS:C	2.41	0.40
31:D5:16:ARG:HH11	31:D5:20:ARG:HH11	1.57	0.40
32:D6:45:LYS:N	32:D6:45:LYS:HD2	2.17	0.40
34:D8:7:HIS:C	34:D8:9:GLY:N	2.73	0.40
34:D8:30:ARG:HA	34:D8:30:ARG:HE	1.83	0.40
35:D9:19:ARG:C	35:D9:21:GLY:N	2.70	0.40
36:DA:374:A:C6	36:DA:375:C:C2	3.09	0.40
36:DA:555:U:O2	36:DA:556:G:N7	2.55	0.40
36:DA:754:C:H2'	36:DA:755:C:C5	2.56	0.40
36:DA:757:U:H2'	36:DA:758:C:H6	1.87	0.40
36:DA:783:A:C2'	36:DA:784:A:O5'	2.70	0.40
36:DA:993:G:C5	36:DA:994:C:H5	2.40	0.40
36:DA:1065:U:H4'	36:DA:1065:U:OP1	2.21	0.40
36:DA:1092:C:N4	36:DA:1093:G:C2	2.89	0.40
36:DA:1210:A:H4'	36:DA:1211:U:O5'	2.21	0.40
36:DA:1346:G:H2'	36:DA:1347:G:C8	2.55	0.40
36:DA:1435:G:H1	36:DA:1557:C:N4	2.12	0.40
36:DA:1452:A:H1'	50:DR:77:ARG:HH22	1.86	0.40
36:DA:1494:A:O2'	36:DA:1496:A:C2	2.74	0.40
36:DA:1632:A:C5	36:DA:1633:G:C6	3.10	0.40
36:DA:1652:A:O2'	36:DA:1653:G:H5'	2.20	0.40
36:DA:1653:G:O2'	50:DR:3:HIS:HB2	2.22	0.40
36:DA:1815:A:P	39:DD:54:ARG:HH22	2.44	0.40
36:DA:2132:U:O4	38:DC:5:LYS:HE3	2.22	0.40
36:DA:2146:C:H5'	36:DA:2147:G:C2	2.56	0.40
36:DA:2176:A:H8	36:DA:2176:A:H5''	1.87	0.40
36:DA:2234:G:O2'	36:DA:2235:G:H5'	2.22	0.40
36:DA:2358:G:C2	36:DA:2359:C:H1'	2.51	0.40
36:DA:2455:G:C2	36:DA:2498:C:N4	2.90	0.40
36:DA:2669:G:C2	36:DA:2670:A:C5	3.09	0.40
38:DC:63:SER:OG	38:DC:160:ARG:HG3	2.21	0.40
38:DC:177:LYS:O	38:DC:180:PHE:HD1	2.05	0.40
39:DD:88:ARG:HH11	39:DD:88:ARG:HG2	1.87	0.40
39:DD:233:HIS:O	39:DD:234:GLY:O	2.40	0.40
39:DD:252:TRP:CD1	39:DD:252:TRP:N	2.88	0.40
40:DE:165:VAL:CG1	40:DE:166:THR:N	2.79	0.40
41:DF:31:HIS:O	41:DF:33:LEU:N	2.54	0.40
43:DH:149:ARG:O	43:DH:149:ARG:HG2	2.22	0.40
44:DJ:55:UNK:O	44:DJ:84:UNK:N	2.55	0.40
48:DP:126:VAL:CG1	48:DP:145:PRO:HB2	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:43:THR:O	49:DQ:44:ALA:C	2.58	0.40
50:DR:75:LEU:O	50:DR:79:LEU:HB2	2.21	0.40
51:DS:30:ARG:NH1	51:DS:35:ILE:HB	2.35	0.40
52:DT:48:ILE:O	52:DT:63:VAL:HA	2.21	0.40
54:DV:75:PHE:CD2	54:DV:82:ARG:HG3	2.56	0.40
58:DZ:8:TYR:O	58:DZ:9:TYR:O	2.40	0.40
58:DZ:10:ARG:HG2	58:DZ:12:GLY:H	1.86	0.40
58:DZ:30:ASN:O	58:DZ:32:HIS:N	2.55	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:65:GLY:O	38:BC:27:ARG:NH2[2_445]	1.63	0.57
2:CB:65:GLY:O	38:DC:27:ARG:NH2[2_646]	1.66	0.54

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	233/256 (91%)	116 (50%)	72 (31%)	45 (19%)	0	2
2	CB	233/256 (91%)	115 (49%)	74 (32%)	44 (19%)	0	2
3	AC	205/239 (86%)	117 (57%)	52 (25%)	36 (18%)	0	2
3	CC	205/239 (86%)	113 (55%)	57 (28%)	35 (17%)	0	2
4	AD	206/209 (99%)	123 (60%)	49 (24%)	34 (16%)	0	3
4	CD	206/209 (99%)	122 (59%)	48 (23%)	36 (18%)	0	2
5	AE	149/162 (92%)	101 (68%)	33 (22%)	15 (10%)	0	7
5	CE	149/162 (92%)	98 (66%)	37 (25%)	14 (9%)	0	8
6	AF	99/101 (98%)	70 (71%)	20 (20%)	9 (9%)	1	9

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	CF	99/101 (98%)	69 (70%)	21 (21%)	9 (9%)	1	9
7	AG	153/156 (98%)	86 (56%)	35 (23%)	32 (21%)	0	1
7	CG	153/156 (98%)	86 (56%)	37 (24%)	30 (20%)	0	2
8	AH	136/138 (99%)	88 (65%)	34 (25%)	14 (10%)	0	7
8	CH	136/138 (99%)	89 (65%)	35 (26%)	12 (9%)	1	9
9	AI	125/128 (98%)	80 (64%)	27 (22%)	18 (14%)	0	4
9	CI	125/128 (98%)	80 (64%)	27 (22%)	18 (14%)	0	4
10	AJ	97/105 (92%)	63 (65%)	20 (21%)	14 (14%)	0	4
10	CJ	97/105 (92%)	63 (65%)	20 (21%)	14 (14%)	0	4
11	AK	117/129 (91%)	80 (68%)	29 (25%)	8 (7%)	1	15
11	CK	117/129 (91%)	77 (66%)	32 (27%)	8 (7%)	1	15
12	AL	123/135 (91%)	71 (58%)	32 (26%)	20 (16%)	0	3
12	CL	123/135 (91%)	73 (59%)	31 (25%)	19 (15%)	0	3
13	AM	123/126 (98%)	58 (47%)	39 (32%)	26 (21%)	0	1
13	CM	123/126 (98%)	58 (47%)	39 (32%)	26 (21%)	0	1
14	AN	58/61 (95%)	28 (48%)	17 (29%)	13 (22%)	0	1
14	CN	58/61 (95%)	29 (50%)	14 (24%)	15 (26%)	0	0
15	AO	86/89 (97%)	54 (63%)	16 (19%)	16 (19%)	0	2
15	CO	86/89 (97%)	55 (64%)	15 (17%)	16 (19%)	0	2
16	AP	82/88 (93%)	50 (61%)	18 (22%)	14 (17%)	0	2
16	CP	82/88 (93%)	50 (61%)	18 (22%)	14 (17%)	0	2
17	AQ	98/105 (93%)	70 (71%)	21 (21%)	7 (7%)	1	14
17	CQ	98/105 (93%)	69 (70%)	21 (21%)	8 (8%)	1	10
18	AR	68/88 (77%)	39 (57%)	17 (25%)	12 (18%)	0	2
18	CR	68/88 (77%)	39 (57%)	17 (25%)	12 (18%)	0	2
19	AS	77/93 (83%)	39 (51%)	27 (35%)	11 (14%)	0	4
19	CS	77/93 (83%)	39 (51%)	27 (35%)	11 (14%)	0	4
20	AT	97/106 (92%)	49 (50%)	30 (31%)	18 (19%)	0	2
20	CT	97/106 (92%)	50 (52%)	29 (30%)	18 (19%)	0	2
21	AU	23/27 (85%)	10 (44%)	7 (30%)	6 (26%)	0	0
21	CU	23/27 (85%)	10 (44%)	8 (35%)	5 (22%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
25	AZ	370/406 (91%)	254 (69%)	77 (21%)	39 (10%)	0	7
25	CZ	370/406 (91%)	252 (68%)	81 (22%)	37 (10%)	0	8
26	B0	82/85 (96%)	54 (66%)	20 (24%)	8 (10%)	0	8
26	D0	82/85 (96%)	54 (66%)	20 (24%)	8 (10%)	0	8
27	B1	92/98 (94%)	55 (60%)	22 (24%)	15 (16%)	0	3
27	D1	92/98 (94%)	54 (59%)	25 (27%)	13 (14%)	0	4
28	B2	69/72 (96%)	43 (62%)	10 (14%)	16 (23%)	0	0
28	D2	69/72 (96%)	44 (64%)	14 (20%)	11 (16%)	0	3
29	B3	58/60 (97%)	28 (48%)	15 (26%)	15 (26%)	0	0
29	D3	58/60 (97%)	28 (48%)	16 (28%)	14 (24%)	0	0
30	B4	43/71 (61%)	20 (46%)	15 (35%)	8 (19%)	0	2
30	D4	43/71 (61%)	20 (46%)	15 (35%)	8 (19%)	0	2
31	B5	57/60 (95%)	33 (58%)	13 (23%)	11 (19%)	0	2
31	D5	57/60 (95%)	32 (56%)	14 (25%)	11 (19%)	0	2
32	B6	48/54 (89%)	17 (35%)	14 (29%)	17 (35%)	0	0
32	D6	48/54 (89%)	18 (38%)	14 (29%)	16 (33%)	0	0
33	B7	47/49 (96%)	27 (57%)	12 (26%)	8 (17%)	0	2
33	D7	47/49 (96%)	27 (57%)	12 (26%)	8 (17%)	0	2
34	B8	62/65 (95%)	34 (55%)	16 (26%)	12 (19%)	0	2
34	D8	62/65 (95%)	34 (55%)	16 (26%)	12 (19%)	0	2
35	B9	35/37 (95%)	18 (51%)	9 (26%)	8 (23%)	0	1
35	D9	35/37 (95%)	18 (51%)	10 (29%)	7 (20%)	0	1
38	BC	226/229 (99%)	143 (63%)	53 (24%)	30 (13%)	0	4
38	DC	226/229 (99%)	141 (62%)	55 (24%)	30 (13%)	0	4
39	BD	273/276 (99%)	176 (64%)	63 (23%)	34 (12%)	0	5
39	DD	273/276 (99%)	172 (63%)	66 (24%)	35 (13%)	0	5
40	BE	203/206 (98%)	109 (54%)	45 (22%)	49 (24%)	0	0
40	DE	203/206 (98%)	108 (53%)	46 (23%)	49 (24%)	0	0
41	BF	206/210 (98%)	120 (58%)	47 (23%)	39 (19%)	0	2
41	DF	206/210 (98%)	121 (59%)	46 (22%)	39 (19%)	0	2
42	BG	179/182 (98%)	86 (48%)	52 (29%)	41 (23%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
42	DG	179/182 (98%)	96 (54%)	45 (25%)	38 (21%)	0	1
43	BH	158/180 (88%)	98 (62%)	36 (23%)	24 (15%)	0	3
43	DH	158/180 (88%)	99 (63%)	35 (22%)	24 (15%)	0	3
46	BN	137/140 (98%)	75 (55%)	39 (28%)	23 (17%)	0	2
46	DN	137/140 (98%)	74 (54%)	40 (29%)	23 (17%)	0	2
47	BO	120/122 (98%)	91 (76%)	17 (14%)	12 (10%)	0	8
47	DO	120/122 (98%)	93 (78%)	15 (12%)	12 (10%)	0	8
48	BP	144/150 (96%)	72 (50%)	35 (24%)	37 (26%)	0	0
48	DP	144/150 (96%)	71 (49%)	35 (24%)	38 (26%)	0	0
49	BQ	139/141 (99%)	77 (55%)	46 (33%)	16 (12%)	0	6
49	DQ	139/141 (99%)	81 (58%)	39 (28%)	19 (14%)	0	4
50	BR	115/118 (98%)	68 (59%)	25 (22%)	22 (19%)	0	2
50	DR	115/118 (98%)	70 (61%)	23 (20%)	22 (19%)	0	2
51	BS	97/112 (87%)	37 (38%)	35 (36%)	25 (26%)	0	0
51	DS	97/112 (87%)	36 (37%)	37 (38%)	24 (25%)	0	0
52	BT	136/146 (93%)	63 (46%)	40 (29%)	33 (24%)	0	0
52	DT	136/146 (93%)	63 (46%)	40 (29%)	33 (24%)	0	0
53	BU	115/118 (98%)	69 (60%)	34 (30%)	12 (10%)	0	7
53	DU	115/118 (98%)	66 (57%)	37 (32%)	12 (10%)	0	7
54	BV	99/101 (98%)	61 (62%)	19 (19%)	19 (19%)	0	2
54	DV	99/101 (98%)	61 (62%)	18 (18%)	20 (20%)	0	1
55	BW	111/113 (98%)	73 (66%)	24 (22%)	14 (13%)	0	5
55	DW	111/113 (98%)	74 (67%)	23 (21%)	14 (13%)	0	5
56	BX	91/96 (95%)	55 (60%)	20 (22%)	16 (18%)	0	2
56	DX	91/96 (95%)	54 (59%)	22 (24%)	15 (16%)	0	3
57	BY	99/110 (90%)	37 (37%)	29 (29%)	33 (33%)	0	0
57	DY	99/110 (90%)	38 (38%)	28 (28%)	33 (33%)	0	0
58	BZ	174/206 (84%)	87 (50%)	47 (27%)	40 (23%)	0	0
58	DZ	174/206 (84%)	96 (55%)	41 (24%)	37 (21%)	0	1
All	All	12280/13108 (94%)	7151 (58%)	3059 (25%)	2070 (17%)	0	2

All (2070) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	19	HIS
2	AB	76	GLN
2	AB	77	ALA
2	AB	93	VAL
2	AB	98	LEU
2	AB	152	PHE
2	AB	190	THR
2	AB	195	ASP
2	AB	216	SER
2	AB	224	GLN
2	AB	229	VAL
2	AB	238	LEU
3	AC	14	ILE
3	AC	95	THR
3	AC	107	GLN
3	AC	154	SER
3	AC	207	VAL
4	AD	3	ARG
4	AD	18	LYS
4	AD	30	LYS
4	AD	35	ARG
4	AD	54	TYR
4	AD	55	ALA
4	AD	72	GLU
4	AD	91	SER
4	AD	92	VAL
4	AD	129	ASN
4	AD	159	ARG
4	AD	189	PRO
5	AE	21	ALA
5	AE	137	GLU
5	AE	153	LYS
6	AF	12	PRO
7	AG	6	ARG
7	AG	37	ASN
7	AG	80	VAL
7	AG	90	GLU
7	AG	105	VAL
7	AG	118	VAL
7	AG	121	ALA
7	AG	136	LYS
7	AG	153	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
8	AH	20	TYR
8	AH	26	VAL
8	AH	83	ILE
9	AI	23	ASN
9	AI	33	PHE
9	AI	46	ALA
9	AI	58	HIS
10	AJ	13	HIS
10	AJ	57	LYS
10	AJ	59	SER
10	AJ	89	ASP
10	AJ	90	LEU
11	AK	40	ILE
11	AK	95	ILE
12	AL	28	LYS
12	AL	46	LYS
12	AL	47	LYS
12	AL	91	LYS
12	AL	92	ASP
12	AL	94	PRO
12	AL	95	GLY
12	AL	116	SER
12	AL	120	TYR
12	AL	122	THR
13	AM	10	PRO
13	AM	11	ARG
13	AM	12	ASN
13	AM	67	GLU
13	AM	90	LEU
13	AM	107	ALA
13	AM	116	THR
13	AM	124	PRO
13	AM	125	ARG
14	AN	14	PRO
14	AN	15	LYS
14	AN	19	ARG
14	AN	20	ALA
14	AN	26	ARG
14	AN	56	VAL
14	AN	59	ALA
15	AO	81	LEU
15	AO	82	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
15	AO	85	LEU
16	AP	11	SER
16	AP	17	TYR
16	AP	24	ALA
17	AQ	4	LYS
18	AR	45	SER
18	AR	46	GLU
18	AR	50	ILE
18	AR	54	ARG
18	AR	60	ALA
19	AS	10	PHE
19	AS	27	GLU
19	AS	28	LYS
19	AS	53	ASN
20	AT	71	THR
20	AT	74	LYS
20	AT	82	SER
20	AT	95	ALA
20	AT	99	LEU
25	AZ	32	THR
25	AZ	33	TYR
25	AZ	141	VAL
25	AZ	145	GLU
25	AZ	146	LEU
25	AZ	190	ARG
25	AZ	194	GLU
25	AZ	220	PRO
25	AZ	260	PRO
25	AZ	274	ARG
25	AZ	300	ARG
25	AZ	301	GLY
25	AZ	382	GLU
26	B0	47	PRO
26	B0	55	ARG
26	B0	56	ASP
27	B1	27	GLU
27	B1	45	ASN
27	B1	52	ARG
27	B1	57	GLU
27	B1	84	GLY
27	B1	91	LYS
28	B2	16	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
28	B2	18	PRO
28	B2	33	MET
28	B2	34	GLU
28	B2	47	ASN
28	B2	68	ARG
28	B2	70	GLN
29	B3	3	ARG
29	B3	13	ILE
29	B3	30	ARG
29	B3	38	GLU
29	B3	43	ILE
30	B4	9	LEU
30	B4	43	TYR
31	B5	24	ALA
31	B5	35	GLU
31	B5	49	CYS
32	B6	16	CYS
32	B6	17	LYS
32	B6	18	ARG
32	B6	23	THR
32	B6	27	LYS
32	B6	28	ARG
32	B6	31	PRO
32	B6	46	HIS
32	B6	48	VAL
33	B7	11	LYS
33	B7	45	ALA
34	B8	31	HIS
34	B8	34	TRP
34	B8	35	GLN
34	B8	43	GLN
34	B8	46	ARG
35	B9	10	ILE
35	B9	11	CYS
35	B9	36	GLN
38	BC	78	ALA
38	BC	95	GLY
38	BC	105	ASP
38	BC	107	TRP
38	BC	109	ASP
38	BC	111	ASP
38	BC	135	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	BC	138	PRO
38	BC	198	ALA
38	BC	199	HIS
39	BD	24	ILE
39	BD	25	THR
39	BD	27	THR
39	BD	52	ARG
39	BD	153	ALA
39	BD	178	PRO
39	BD	225	ALA
39	BD	226	MET
39	BD	246	PRO
40	BE	4	ILE
40	BE	53	PRO
40	BE	54	GLN
40	BE	57	LYS
40	BE	77	ILE
40	BE	81	ILE
40	BE	84	PHE
40	BE	88	GLY
40	BE	90	THR
40	BE	127	ASP
40	BE	131	ALA
40	BE	155	LYS
40	BE	168	MET
40	BE	178	GLU
40	BE	189	PRO
41	BF	2	LYS
41	BF	3	GLU
41	BF	10	PRO
41	BF	14	PRO
41	BF	24	LEU
41	BF	64	ILE
41	BF	79	GLY
41	BF	81	PRO
41	BF	83	PHE
41	BF	84	VAL
41	BF	89	VAL
41	BF	127	GLU
41	BF	158	THR
41	BF	168	ARG
41	BF	169	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	BF	170	LEU
41	BF	172	TRP
42	BG	3	LEU
42	BG	19	LEU
42	BG	28	VAL
42	BG	47	LYS
42	BG	63	ILE
42	BG	73	ALA
42	BG	81	LYS
42	BG	84	LYS
42	BG	86	MET
42	BG	87	PRO
42	BG	96	ARG
42	BG	111	LEU
42	BG	118	ARG
42	BG	126	ASP
42	BG	129	GLY
42	BG	131	TYR
42	BG	144	ILE
42	BG	163	ALA
43	BH	21	PRO
43	BH	24	VAL
43	BH	29	PRO
43	BH	41	MET
43	BH	84	SER
43	BH	137	ASP
43	BH	159	GLU
43	BH	164	TYR
43	BH	170	ARG
46	BN	5	VAL
46	BN	7	LYS
46	BN	8	GLN
46	BN	42	TRP
46	BN	57	ALA
46	BN	58	ASP
46	BN	63	THR
46	BN	130	HIS
46	BN	133	GLN
47	BO	5	GLN
47	BO	18	LYS
47	BO	48	PRO
47	BO	68	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
48	BP	9	ASN
48	BP	11	GLY
48	BP	19	VAL
48	BP	33	ARG
48	BP	35	HIS
48	BP	40	SER
48	BP	46	LYS
48	BP	47	ASP
48	BP	49	ARG
48	BP	52	GLU
48	BP	57	THR
48	BP	64	LYS
48	BP	65	ARG
48	BP	67	MET
48	BP	71	VAL
48	BP	76	LYS
48	BP	106	LEU
48	BP	110	TYR
48	BP	122	PRO
49	BQ	25	ASP
49	BQ	52	VAL
49	BQ	54	MET
49	BQ	57	HIS
49	BQ	88	GLY
50	BR	4	LEU
50	BR	11	ASN
50	BR	30	THR
50	BR	45	ARG
50	BR	56	LYS
50	BR	57	ARG
50	BR	58	GLY
50	BR	60	LEU
50	BR	78	LYS
50	BR	103	ARG
50	BR	117	VAL
51	BS	13	ARG
51	BS	23	ARG
51	BS	36	TYR
51	BS	37	ALA
51	BS	59	LYS
51	BS	85	VAL
51	BS	95	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
51	BS	100	ALA
51	BS	105	ALA
52	BT	17	THR
52	BT	24	PRO
52	BT	32	TYR
52	BT	33	LYS
52	BT	69	GLY
52	BT	80	SER
52	BT	84	GLN
52	BT	103	ARG
52	BT	107	ASP
52	BT	112	ARG
52	BT	129	ARG
53	BU	5	LYS
53	BU	9	VAL
53	BU	87	GLY
53	BU	91	ASP
54	BV	16	PRO
54	BV	18	LEU
54	BV	24	LYS
54	BV	27	ALA
54	BV	46	VAL
54	BV	50	PRO
54	BV	53	GLU
54	BV	64	HIS
55	BW	6	ILE
55	BW	18	ARG
55	BW	63	ASP
55	BW	73	ALA
55	BW	99	ARG
56	BX	19	ALA
56	BX	49	VAL
56	BX	62	LYS
56	BX	66	LEU
56	BX	93	GLU
57	BY	5	MET
57	BY	17	SER
57	BY	38	ILE
57	BY	42	VAL
57	BY	46	LYS
57	BY	51	VAL
57	BY	53	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
57	BY	56	PRO
57	BY	57	GLN
57	BY	64	GLU
57	BY	66	PRO
57	BY	74	PRO
57	BY	76	CYS
57	BY	77	PRO
57	BY	78	ALA
58	BZ	7	ALA
58	BZ	23	LYS
58	BZ	27	VAL
58	BZ	28	MET
58	BZ	40	ASP
58	BZ	45	ASP
58	BZ	46	LYS
58	BZ	53	ILE
58	BZ	77	ASP
58	BZ	81	ARG
58	BZ	96	VAL
58	BZ	150	LEU
58	BZ	151	HIS
58	BZ	152	ALA
58	BZ	163	LEU
58	BZ	166	SER
58	BZ	177	PRO
2	CB	15	VAL
2	CB	19	HIS
2	CB	76	GLN
2	CB	77	ALA
2	CB	98	LEU
2	CB	152	PHE
2	CB	190	THR
2	CB	195	ASP
2	CB	224	GLN
2	CB	229	VAL
2	CB	238	LEU
3	CC	14	ILE
3	CC	95	THR
3	CC	107	GLN
3	CC	154	SER
3	CC	207	VAL
4	CD	3	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	CD	18	LYS
4	CD	30	LYS
4	CD	35	ARG
4	CD	55	ALA
4	CD	72	GLU
4	CD	91	SER
4	CD	92	VAL
4	CD	129	ASN
4	CD	159	ARG
4	CD	189	PRO
5	CE	21	ALA
5	CE	153	LYS
7	CG	6	ARG
7	CG	37	ASN
7	CG	90	GLU
7	CG	105	VAL
7	CG	118	VAL
7	CG	136	LYS
7	CG	153	HIS
8	CH	20	TYR
8	CH	26	VAL
8	CH	83	ILE
9	CI	23	ASN
9	CI	33	PHE
9	CI	46	ALA
9	CI	58	HIS
10	CJ	57	LYS
10	CJ	59	SER
10	CJ	89	ASP
10	CJ	90	LEU
11	CK	40	ILE
11	CK	95	ILE
12	CL	28	LYS
12	CL	46	LYS
12	CL	47	LYS
12	CL	91	LYS
12	CL	92	ASP
12	CL	94	PRO
12	CL	95	GLY
12	CL	120	TYR
12	CL	122	THR
13	CM	10	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
13	CM	11	ARG
13	CM	12	ASN
13	CM	67	GLU
13	CM	90	LEU
13	CM	107	ALA
13	CM	116	THR
13	CM	124	PRO
13	CM	125	ARG
14	CN	14	PRO
14	CN	15	LYS
14	CN	19	ARG
14	CN	20	ALA
14	CN	26	ARG
14	CN	56	VAL
14	CN	59	ALA
15	CO	81	LEU
15	CO	82	ILE
15	CO	85	LEU
16	CP	11	SER
16	CP	17	TYR
16	CP	24	ALA
17	CQ	4	LYS
18	CR	25	THR
18	CR	45	SER
18	CR	46	GLU
18	CR	50	ILE
18	CR	54	ARG
18	CR	60	ALA
19	CS	10	PHE
19	CS	27	GLU
19	CS	28	LYS
19	CS	53	ASN
20	CT	71	THR
20	CT	74	LYS
20	CT	82	SER
20	CT	95	ALA
20	CT	99	LEU
25	CZ	32	THR
25	CZ	33	TYR
25	CZ	141	VAL
25	CZ	145	GLU
25	CZ	146	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	CZ	190	ARG
25	CZ	194	GLU
25	CZ	220	PRO
25	CZ	260	PRO
25	CZ	274	ARG
25	CZ	300	ARG
25	CZ	301	GLY
25	CZ	357	PRO
25	CZ	382	GLU
26	D0	47	PRO
26	D0	55	ARG
26	D0	56	ASP
27	D1	30	VAL
27	D1	52	ARG
27	D1	56	GLN
27	D1	64	ALA
27	D1	73	LEU
27	D1	83	GLU
27	D1	91	LYS
28	D2	17	SER
28	D2	28	LYS
28	D2	33	MET
28	D2	34	GLU
28	D2	47	ASN
28	D2	68	ARG
28	D2	70	GLN
29	D3	3	ARG
29	D3	13	ILE
29	D3	29	ARG
29	D3	30	ARG
29	D3	38	GLU
29	D3	43	ILE
30	D4	9	LEU
30	D4	43	TYR
31	D5	24	ALA
31	D5	35	GLU
31	D5	49	CYS
32	D6	16	CYS
32	D6	17	LYS
32	D6	18	ARG
32	D6	20	ASN
32	D6	23	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
32	D6	27	LYS
32	D6	28	ARG
32	D6	31	PRO
32	D6	46	HIS
32	D6	48	VAL
33	D7	11	LYS
33	D7	45	ALA
34	D8	31	HIS
34	D8	34	TRP
34	D8	35	GLN
34	D8	43	GLN
34	D8	46	ARG
35	D9	10	ILE
35	D9	11	CYS
35	D9	13	LYS
35	D9	25	VAL
35	D9	33	LYS
35	D9	36	GLN
38	DC	39	GLU
38	DC	78	ALA
38	DC	95	GLY
38	DC	105	ASP
38	DC	107	TRP
38	DC	109	ASP
38	DC	111	ASP
38	DC	135	GLY
38	DC	138	PRO
38	DC	198	ALA
38	DC	199	HIS
39	DD	3	VAL
39	DD	24	ILE
39	DD	25	THR
39	DD	27	THR
39	DD	52	ARG
39	DD	178	PRO
39	DD	225	ALA
39	DD	226	MET
39	DD	246	PRO
39	DD	267	SER
40	DE	4	ILE
40	DE	53	PRO
40	DE	54	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	DE	57	LYS
40	DE	77	ILE
40	DE	81	ILE
40	DE	84	PHE
40	DE	88	GLY
40	DE	90	THR
40	DE	131	ALA
40	DE	155	LYS
40	DE	168	MET
40	DE	178	GLU
40	DE	189	PRO
41	DF	2	LYS
41	DF	3	GLU
41	DF	10	PRO
41	DF	14	PRO
41	DF	24	LEU
41	DF	64	ILE
41	DF	79	GLY
41	DF	81	PRO
41	DF	84	VAL
41	DF	89	VAL
41	DF	127	GLU
41	DF	158	THR
41	DF	168	ARG
41	DF	169	ASN
41	DF	170	LEU
41	DF	172	TRP
42	DG	3	LEU
42	DG	70	VAL
42	DG	73	ALA
42	DG	75	LYS
42	DG	80	PHE
42	DG	82	LEU
42	DG	84	LYS
42	DG	86	MET
42	DG	87	PRO
42	DG	92	VAL
42	DG	96	ARG
42	DG	97	ASP
42	DG	101	ILE
42	DG	118	ARG
42	DG	126	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	DG	144	ILE
42	DG	155	MET
42	DG	163	ALA
43	DH	21	PRO
43	DH	24	VAL
43	DH	29	PRO
43	DH	41	MET
43	DH	84	SER
43	DH	137	ASP
43	DH	159	GLU
43	DH	164	TYR
43	DH	170	ARG
46	DN	5	VAL
46	DN	7	LYS
46	DN	8	GLN
46	DN	42	TRP
46	DN	57	ALA
46	DN	58	ASP
46	DN	59	LYS
46	DN	63	THR
46	DN	130	HIS
46	DN	133	GLN
47	DO	5	GLN
47	DO	18	LYS
47	DO	48	PRO
47	DO	68	GLU
48	DP	9	ASN
48	DP	11	GLY
48	DP	19	VAL
48	DP	35	HIS
48	DP	40	SER
48	DP	46	LYS
48	DP	47	ASP
48	DP	49	ARG
48	DP	52	GLU
48	DP	57	THR
48	DP	64	LYS
48	DP	65	ARG
48	DP	67	MET
48	DP	71	VAL
48	DP	106	LEU
48	DP	110	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
48	DP	122	PRO
49	DQ	25	ASP
49	DQ	52	VAL
49	DQ	54	MET
49	DQ	57	HIS
49	DQ	88	GLY
50	DR	4	LEU
50	DR	11	ASN
50	DR	30	THR
50	DR	45	ARG
50	DR	57	ARG
50	DR	58	GLY
50	DR	60	LEU
50	DR	103	ARG
50	DR	117	VAL
51	DS	13	ARG
51	DS	23	ARG
51	DS	36	TYR
51	DS	37	ALA
51	DS	59	LYS
51	DS	85	VAL
51	DS	95	HIS
51	DS	100	ALA
51	DS	105	ALA
52	DT	17	THR
52	DT	24	PRO
52	DT	32	TYR
52	DT	33	LYS
52	DT	69	GLY
52	DT	80	SER
52	DT	84	GLN
52	DT	103	ARG
52	DT	104	ASN
52	DT	107	ASP
52	DT	129	ARG
53	DU	5	LYS
53	DU	9	VAL
53	DU	87	GLY
53	DU	91	ASP
54	DV	16	PRO
54	DV	18	LEU
54	DV	24	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
54	DV	27	ALA
54	DV	46	VAL
54	DV	50	PRO
54	DV	53	GLU
54	DV	64	HIS
55	DW	6	ILE
55	DW	63	ASP
55	DW	73	ALA
55	DW	99	ARG
56	DX	19	ALA
56	DX	49	VAL
56	DX	62	LYS
56	DX	66	LEU
56	DX	93	GLU
57	DY	5	MET
57	DY	13	VAL
57	DY	17	SER
57	DY	38	ILE
57	DY	42	VAL
57	DY	46	LYS
57	DY	51	VAL
57	DY	53	PRO
57	DY	56	PRO
57	DY	57	GLN
57	DY	64	GLU
57	DY	66	PRO
57	DY	74	PRO
57	DY	76	CYS
57	DY	77	PRO
57	DY	78	ALA
58	DZ	45	ASP
58	DZ	46	LYS
58	DZ	52	SER
58	DZ	53	ILE
58	DZ	80	ARG
58	DZ	128	VAL
58	DZ	151	HIS
58	DZ	152	ALA
58	DZ	165	VAL
58	DZ	168	GLU
2	AB	14	GLY
2	AB	18	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	AB	20	GLU
2	AB	24	TRP
2	AB	45	GLN
2	AB	83	MET
2	AB	97	TRP
2	AB	101	MET
2	AB	150	SER
2	AB	174	VAL
2	AB	180	LEU
2	AB	230	VAL
2	AB	236	TYR
3	AC	13	GLY
3	AC	47	LEU
3	AC	51	GLY
3	AC	73	PRO
3	AC	83	ARG
3	AC	96	GLY
3	AC	105	GLU
3	AC	129	ALA
3	AC	133	ALA
3	AC	146	ALA
4	AD	31	CYS
4	AD	40	PRO
4	AD	44	GLY
4	AD	47	ARG
4	AD	110	PHE
4	AD	125	HIS
4	AD	172	PRO
4	AD	181	MET
4	AD	183	GLY
4	AD	201	GLN
5	AE	65	ASN
5	AE	136	MET
5	AE	146	ALA
6	AF	13	ASN
6	AF	31	GLU
6	AF	34	GLY
6	AF	80	ARG
7	AG	17	VAL
7	AG	27	ILE
7	AG	100	ALA
7	AG	101	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
7	AG	107	ALA
7	AG	122	HIS
7	AG	145	ALA
8	AH	2	LEU
8	AH	71	GLY
8	AH	105	ARG
8	AH	135	CYS
9	AI	12	GLU
9	AI	44	VAL
9	AI	89	ASN
9	AI	95	LYS
9	AI	101	PHE
10	AJ	24	VAL
11	AK	39	PRO
11	AK	73	MET
12	AL	18	VAL
12	AL	31	PRO
12	AL	51	ALA
12	AL	63	GLY
12	AL	115	LYS
13	AM	5	ALA
13	AM	7	VAL
13	AM	31	LYS
13	AM	69	GLU
13	AM	74	VAL
13	AM	83	ASP
13	AM	100	GLY
14	AN	52	GLN
14	AN	60	SER
15	AO	10	LYS
15	AO	27	VAL
15	AO	28	GLN
16	AP	23	ASP
16	AP	28	ARG
16	AP	53	VAL
17	AQ	38	ARG
18	AR	25	THR
18	AR	41	LYS
18	AR	87	ARG
19	AS	11	VAL
19	AS	14	HIS
19	AS	25	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
19	AS	29	ARG
19	AS	51	VAL
20	AT	49	ALA
20	AT	102	GLY
21	AU	3	LYS
21	AU	6	ARG
25	AZ	119	HIS
25	AZ	216	ASP
25	AZ	280	GLY
25	AZ	310	ILE
25	AZ	361	MET
26	B0	43	THR
26	B0	64	ASP
26	B0	73	GLY
27	B1	14	VAL
27	B1	15	ALA
27	B1	31	GLY
27	B1	36	GLY
27	B1	53	VAL
27	B1	73	LEU
28	B2	26	ARG
28	B2	49	LYS
29	B3	16	PRO
29	B3	29	ARG
29	B3	57	GLU
30	B4	20	ASN
30	B4	44	THR
31	B5	3	LYS
31	B5	25	LEU
31	B5	45	VAL
31	B5	57	VAL
32	B6	19	ARG
32	B6	20	ASN
32	B6	52	VAL
33	B7	32	LYS
34	B8	3	LYS
34	B8	8	LYS
35	B9	13	LYS
35	B9	25	VAL
35	B9	33	LYS
38	BC	2	LYS
38	BC	39	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	BC	48	GLY
38	BC	62	VAL
38	BC	77	ILE
38	BC	99	ILE
38	BC	115	ALA
38	BC	149	ILE
38	BC	160	ARG
38	BC	179	SER
39	BD	3	VAL
39	BD	111	LEU
39	BD	234	GLY
39	BD	242	ARG
39	BD	267	SER
39	BD	273	ARG
40	BE	19	ARG
40	BE	29	GLY
40	BE	35	GLN
40	BE	64	LYS
40	BE	66	HIS
40	BE	69	LYS
40	BE	80	GLU
40	BE	117	MET
40	BE	124	GLY
40	BE	130	GLY
40	BE	145	LYS
40	BE	179	GLU
40	BE	199	ARG
40	BE	204	ALA
41	BF	11	VAL
41	BF	21	ALA
41	BF	43	LYS
41	BF	62	ARG
41	BF	85	GLY
41	BF	88	VAL
41	BF	100	THR
41	BF	119	ARG
41	BF	126	VAL
41	BF	132	VAL
41	BF	133	ASN
41	BF	134	GLY
41	BF	179	GLU
42	BG	10	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	BG	45	GLU
42	BG	80	PHE
42	BG	101	ILE
42	BG	132	ASN
42	BG	139	LEU
42	BG	167	GLU
42	BG	176	LEU
43	BH	30	LYS
43	BH	45	VAL
43	BH	46	GLU
43	BH	62	LYS
43	BH	108	GLY
43	BH	109	PHE
43	BH	138	LYS
46	BN	19	GLU
46	BN	36	GLY
46	BN	46	VAL
46	BN	50	ASP
46	BN	59	LYS
47	BO	9	GLU
47	BO	26	LYS
47	BO	35	VAL
47	BO	91	LEU
48	BP	15	ARG
48	BP	21	ARG
48	BP	34	GLY
48	BP	83	VAL
48	BP	108	LYS
48	BP	149	GLU
49	BQ	20	ALA
49	BQ	30	GLY
49	BQ	87	LYS
49	BQ	119	ARG
49	BQ	135	ASP
50	BR	29	LEU
50	BR	42	LYS
50	BR	43	GLU
50	BR	46	GLY
50	BR	86	ARG
51	BS	15	ARG
51	BS	17	ARG
51	BS	24	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
51	BS	28	VAL
51	BS	29	PHE
51	BS	94	TYR
51	BS	97	ARG
51	BS	104	GLY
52	BT	4	GLY
52	BT	28	VAL
52	BT	57	PHE
52	BT	91	ARG
52	BT	95	ARG
52	BT	100	TYR
52	BT	104	ASN
52	BT	135	ALA
53	BU	33	ARG
53	BU	90	VAL
53	BU	94	ASN
53	BU	95	LEU
54	BV	20	LEU
54	BV	44	LYS
54	BV	67	GLY
54	BV	79	VAL
54	BV	97	LYS
55	BW	65	LEU
56	BX	4	ALA
56	BX	12	VAL
57	BY	7	VAL
57	BY	8	LYS
57	BY	13	VAL
57	BY	37	VAL
57	BY	39	VAL
57	BY	61	ILE
58	BZ	52	SER
58	BZ	80	ARG
58	BZ	95	PRO
58	BZ	128	VAL
58	BZ	139	VAL
58	BZ	168	GLU
2	CB	14	GLY
2	CB	18	GLY
2	CB	20	GLU
2	CB	24	TRP
2	CB	26	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	CB	45	GLN
2	CB	83	MET
2	CB	93	VAL
2	CB	97	TRP
2	CB	101	MET
2	CB	150	SER
2	CB	174	VAL
2	CB	180	LEU
2	CB	216	SER
2	CB	230	VAL
2	CB	236	TYR
3	CC	47	LEU
3	CC	51	GLY
3	CC	73	PRO
3	CC	83	ARG
3	CC	96	GLY
3	CC	105	GLU
3	CC	129	ALA
3	CC	133	ALA
3	CC	146	ALA
4	CD	40	PRO
4	CD	44	GLY
4	CD	47	ARG
4	CD	54	TYR
4	CD	125	HIS
4	CD	172	PRO
4	CD	181	MET
4	CD	183	GLY
4	CD	201	GLN
5	CE	65	ASN
5	CE	136	MET
5	CE	137	GLU
5	CE	146	ALA
6	CF	12	PRO
6	CF	13	ASN
6	CF	31	GLU
6	CF	34	GLY
6	CF	80	ARG
7	CG	17	VAL
7	CG	27	ILE
7	CG	80	VAL
7	CG	100	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
7	CG	107	ALA
7	CG	121	ALA
7	CG	145	ALA
8	CH	2	LEU
8	CH	37	ARG
8	CH	71	GLY
8	CH	105	ARG
8	CH	135	CYS
9	CI	12	GLU
9	CI	44	VAL
9	CI	89	ASN
9	CI	95	LYS
9	CI	101	PHE
10	CJ	13	HIS
10	CJ	24	VAL
11	CK	39	PRO
11	CK	73	MET
12	CL	18	VAL
12	CL	31	PRO
12	CL	51	ALA
12	CL	63	GLY
12	CL	115	LYS
12	CL	116	SER
13	CM	5	ALA
13	CM	7	VAL
13	CM	69	GLU
13	CM	74	VAL
13	CM	83	ASP
13	CM	100	GLY
14	CN	16	PHE
14	CN	52	GLN
14	CN	60	SER
15	CO	27	VAL
15	CO	60	VAL
15	CO	65	ARG
16	CP	23	ASP
16	CP	28	ARG
16	CP	53	VAL
17	CQ	38	ARG
18	CR	41	LYS
18	CR	87	ARG
19	CS	11	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
19	CS	14	HIS
19	CS	25	LYS
19	CS	29	ARG
19	CS	51	VAL
20	CT	49	ALA
20	CT	102	GLY
21	CU	3	LYS
21	CU	6	ARG
25	CZ	119	HIS
25	CZ	216	ASP
25	CZ	280	GLY
25	CZ	310	ILE
25	CZ	361	MET
26	D0	43	THR
26	D0	64	ASP
26	D0	73	GLY
27	D1	42	GLN
27	D1	45	ASN
28	D2	18	PRO
29	D3	16	PRO
29	D3	57	GLU
30	D4	20	ASN
30	D4	44	THR
31	D5	3	LYS
31	D5	25	LEU
31	D5	45	VAL
31	D5	57	VAL
32	D6	52	VAL
33	D7	32	LYS
34	D8	8	LYS
38	DC	2	LYS
38	DC	48	GLY
38	DC	62	VAL
38	DC	77	ILE
38	DC	99	ILE
38	DC	115	ALA
38	DC	149	ILE
38	DC	160	ARG
38	DC	179	SER
39	DD	111	LEU
39	DD	153	ALA
39	DD	234	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	DD	242	ARG
39	DD	273	ARG
40	DE	19	ARG
40	DE	29	GLY
40	DE	35	GLN
40	DE	60	ASN
40	DE	64	LYS
40	DE	66	HIS
40	DE	69	LYS
40	DE	80	GLU
40	DE	117	MET
40	DE	124	GLY
40	DE	127	ASP
40	DE	130	GLY
40	DE	145	LYS
40	DE	179	GLU
40	DE	199	ARG
40	DE	204	ALA
41	DF	11	VAL
41	DF	21	ALA
41	DF	43	LYS
41	DF	62	ARG
41	DF	82	ILE
41	DF	83	PHE
41	DF	85	GLY
41	DF	88	VAL
41	DF	100	THR
41	DF	119	ARG
41	DF	126	VAL
41	DF	132	VAL
41	DF	133	ASN
41	DF	134	GLY
41	DF	179	GLU
42	DG	113	ARG
42	DG	114	ILE
42	DG	120	LEU
42	DG	129	GLY
42	DG	176	LEU
43	DH	30	LYS
43	DH	45	VAL
43	DH	46	GLU
43	DH	62	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
43	DH	108	GLY
43	DH	109	PHE
43	DH	138	LYS
46	DN	19	GLU
46	DN	36	GLY
46	DN	46	VAL
46	DN	50	ASP
47	DO	9	GLU
47	DO	26	LYS
47	DO	35	VAL
47	DO	91	LEU
48	DP	15	ARG
48	DP	21	ARG
48	DP	33	ARG
48	DP	34	GLY
48	DP	76	LYS
48	DP	83	VAL
48	DP	149	GLU
49	DQ	20	ALA
49	DQ	30	GLY
49	DQ	87	LYS
49	DQ	119	ARG
49	DQ	135	ASP
50	DR	29	LEU
50	DR	46	GLY
50	DR	56	LYS
50	DR	78	LYS
50	DR	86	ARG
50	DR	108	GLY
51	DS	15	ARG
51	DS	17	ARG
51	DS	24	LEU
51	DS	28	VAL
51	DS	29	PHE
51	DS	94	TYR
51	DS	97	ARG
51	DS	104	GLY
52	DT	4	GLY
52	DT	15	VAL
52	DT	28	VAL
52	DT	57	PHE
52	DT	91	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
52	DT	95	ARG
52	DT	100	TYR
52	DT	112	ARG
52	DT	135	ALA
53	DU	33	ARG
53	DU	90	VAL
53	DU	94	ASN
53	DU	95	LEU
54	DV	20	LEU
54	DV	44	LYS
54	DV	79	VAL
54	DV	97	LYS
55	DW	18	ARG
55	DW	65	LEU
56	DX	4	ALA
56	DX	12	VAL
56	DX	21	PHE
57	DY	7	VAL
57	DY	8	LYS
57	DY	37	VAL
57	DY	61	ILE
58	DZ	9	TYR
58	DZ	21	ALA
58	DZ	29	TYR
58	DZ	49	ARG
58	DZ	61	LEU
58	DZ	77	ASP
58	DZ	120	ILE
58	DZ	147	GLY
58	DZ	163	LEU
58	DZ	177	PRO
2	AB	26	PRO
2	AB	63	MET
2	AB	84	GLU
2	AB	88	ALA
2	AB	130	ARG
2	AB	155	LEU
2	AB	166	ASP
2	AB	173	ALA
2	AB	177	ALA
3	AC	3	ASN
3	AC	26	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	AC	27	LYS
3	AC	49	SER
3	AC	91	LEU
3	AC	123	GLN
3	AC	153	VAL
3	AC	180	ALA
3	AC	204	LEU
4	AD	41	GLY
4	AD	153	ARG
4	AD	187	ARG
5	AE	64	ARG
5	AE	126	ARG
6	AF	38	GLU
7	AG	4	ARG
7	AG	62	PHE
7	AG	78	ARG
7	AG	106	GLN
7	AG	112	PRO
7	AG	117	ALA
7	AG	119	ARG
7	AG	146	GLU
7	AG	147	ALA
8	AH	35	ILE
8	AH	37	ARG
9	AI	21	PRO
9	AI	24	GLY
9	AI	25	LYS
9	AI	47	LEU
9	AI	92	TYR
9	AI	98	PRO
10	AJ	15	THR
10	AJ	51	ARG
10	AJ	91	PRO
11	AK	62	GLN
12	AL	19	ARG
12	AL	86	ARG
13	AM	21	TYR
13	AM	108	ARG
14	AN	16	PHE
15	AO	5	LYS
15	AO	65	ARG
16	AP	26	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
16	AP	45	THR
16	AP	78	GLY
16	AP	83	GLU
18	AR	21	LYS
20	AT	31	SER
20	AT	39	LYS
20	AT	50	GLU
20	AT	51	GLU
21	AU	10	ARG
21	AU	25	LYS
25	AZ	258	LEU
25	AZ	345	ARG
25	AZ	390	GLU
26	B0	57	PHE
26	B0	83	PRO
27	B1	83	GLU
28	B2	30	ARG
28	B2	58	ALA
28	B2	64	LEU
29	B3	2	PRO
29	B3	42	ALA
30	B4	8	LYS
30	B4	26	SER
30	B4	28	LYS
31	B5	11	THR
31	B5	59	GLU
32	B6	33	LYS
32	B6	34	LEU
32	B6	49	HIS
34	B8	61	LEU
38	BC	49	ILE
38	BC	121	GLY
38	BC	141	LYS
38	BC	196	LEU
38	BC	197	GLU
38	BC	204	ALA
38	BC	217	THR
39	BD	32	SER
39	BD	127	VAL
39	BD	188	GLU
39	BD	236	GLY
39	BD	239	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	BE	2	LYS
40	BE	60	ASN
40	BE	135	HIS
40	BE	136	ARG
40	BE	172	VAL
40	BE	185	LYS
41	BF	42	ALA
41	BF	49	ALA
41	BF	146	ALA
41	BF	164	ARG
41	BF	171	PRO
42	BG	46	ALA
42	BG	64	THR
42	BG	82	LEU
42	BG	115	ARG
42	BG	130	ASN
42	BG	147	ASP
43	BH	20	ALA
43	BH	42	ARG
46	BN	45	ASN
46	BN	108	PRO
46	BN	127	ASP
46	BN	138	LEU
47	BO	73	ASP
48	BP	13	ASN
48	BP	23	PRO
48	BP	70	GLN
48	BP	81	GLN
48	BP	107	LYS
48	BP	125	VAL
49	BQ	21	THR
49	BQ	71	ASP
49	BQ	96	VAL
49	BQ	137	TYR
50	BR	14	SER
50	BR	63	ARG
50	BR	108	GLY
51	BS	78	LEU
51	BS	107	GLU
52	BT	12	SER
52	BT	36	GLU
52	BT	37	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
52	BT	41	ARG
53	BU	93	LYS
54	BV	59	ALA
55	BW	35	ILE
55	BW	74	ALA
55	BW	111	HIS
56	BX	9	LEU
56	BX	15	GLU
56	BX	21	PHE
57	BY	3	VAL
57	BY	14	LEU
57	BY	82	PRO
57	BY	99	CYS
58	BZ	29	TYR
58	BZ	51	ALA
58	BZ	73	GLN
58	BZ	113	ALA
58	BZ	134	PRO
2	CB	88	ALA
2	CB	130	ARG
2	CB	155	LEU
2	CB	173	ALA
2	CB	177	ALA
2	CB	239	VAL
3	CC	3	ASN
3	CC	26	LYS
3	CC	27	LYS
3	CC	49	SER
3	CC	153	VAL
3	CC	180	ALA
3	CC	204	LEU
4	CD	31	CYS
4	CD	41	GLY
4	CD	56	VAL
4	CD	110	PHE
4	CD	153	ARG
4	CD	187	ARG
5	CE	27	ARG
5	CE	64	ARG
5	CE	126	ARG
6	CF	38	GLU
7	CG	4	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
7	CG	62	PHE
7	CG	78	ARG
7	CG	101	LEU
7	CG	106	GLN
7	CG	112	PRO
7	CG	117	ALA
7	CG	119	ARG
7	CG	122	HIS
7	CG	147	ALA
8	CH	35	ILE
9	CI	21	PRO
9	CI	24	GLY
9	CI	25	LYS
9	CI	47	LEU
9	CI	92	TYR
9	CI	98	PRO
10	CJ	15	THR
10	CJ	91	PRO
11	CK	62	GLN
12	CL	19	ARG
12	CL	86	ARG
13	CM	21	TYR
13	CM	31	LYS
13	CM	108	ARG
14	CN	9	LYS
15	CO	5	LYS
15	CO	10	LYS
15	CO	24	SER
15	CO	28	GLN
16	CP	26	ARG
16	CP	45	THR
16	CP	78	GLY
16	CP	83	GLU
17	CQ	74	LEU
20	CT	31	SER
20	CT	50	GLU
21	CU	25	LYS
25	CZ	165	GLY
25	CZ	258	LEU
25	CZ	345	ARG
25	CZ	390	GLU
26	D0	57	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
26	D0	83	PRO
27	D1	85	LEU
28	D2	48	HIS
29	D3	2	PRO
29	D3	42	ALA
29	D3	51	ALA
30	D4	8	LYS
30	D4	26	SER
30	D4	28	LYS
31	D5	11	THR
31	D5	59	GLU
32	D6	19	ARG
32	D6	33	LYS
32	D6	34	LEU
32	D6	49	HIS
33	D7	16	HIS
34	D8	3	LYS
34	D8	61	LEU
38	DC	49	ILE
38	DC	141	LYS
38	DC	196	LEU
38	DC	197	GLU
38	DC	204	ALA
38	DC	217	THR
39	DD	127	VAL
39	DD	156	ALA
39	DD	188	GLU
39	DD	206	LEU
39	DD	236	GLY
39	DD	239	ARG
40	DE	2	LYS
40	DE	135	HIS
40	DE	136	ARG
40	DE	172	VAL
40	DE	185	LYS
41	DF	42	ALA
41	DF	49	ALA
41	DF	146	ALA
41	DF	164	ARG
41	DF	171	PRO
42	DG	6	ALA
42	DG	28	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	DG	100	TRP
42	DG	104	GLU
42	DG	105	LYS
42	DG	110	ALA
42	DG	111	LEU
43	DH	20	ALA
43	DH	42	ARG
46	DN	45	ASN
46	DN	108	PRO
46	DN	127	ASP
46	DN	138	LEU
47	DO	73	ASP
48	DP	12	ALA
48	DP	13	ASN
48	DP	23	PRO
48	DP	70	GLN
48	DP	81	GLN
48	DP	107	LYS
48	DP	108	LYS
48	DP	125	VAL
49	DQ	21	THR
49	DQ	71	ASP
49	DQ	96	VAL
49	DQ	137	TYR
50	DR	14	SER
50	DR	42	LYS
50	DR	43	GLU
50	DR	63	ARG
50	DR	75	LEU
51	DS	78	LEU
51	DS	107	GLU
52	DT	12	SER
52	DT	36	GLU
52	DT	37	GLY
52	DT	41	ARG
52	DT	46	GLU
54	DV	67	GLY
55	DW	59	VAL
55	DW	74	ALA
55	DW	111	HIS
56	DX	9	LEU
56	DX	15	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
57	DY	3	VAL
57	DY	14	LEU
57	DY	27	VAL
57	DY	39	VAL
57	DY	82	PRO
57	DY	99	CYS
58	DZ	31	ARG
58	DZ	76	LEU
58	DZ	148	ASP
58	DZ	166	SER
2	AB	37	ASN
2	AB	178	ARG
2	AB	209	ARG
2	AB	239	VAL
3	AC	36	ASP
3	AC	55	VAL
4	AD	14	ARG
4	AD	56	VAL
5	AE	27	ARG
6	AF	42	GLU
7	AG	36	LYS
7	AG	94	ARG
7	AG	102	ARG
8	AH	76	PRO
9	AI	34	ASN
11	AK	35	PRO
11	AK	100	ALA
12	AL	6	THR
12	AL	29	GLY
13	AM	4	ILE
13	AM	41	PRO
13	AM	55	ARG
13	AM	114	ARG
14	AN	9	LYS
14	AN	23	ARG
15	AO	24	SER
15	AO	54	ARG
15	AO	60	VAL
15	AO	88	ARG
17	AQ	68	ARG
17	AQ	69	LYS
17	AQ	74	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
20	AT	18	GLN
20	AT	97	ALA
25	AZ	144	PRO
25	AZ	165	GLY
25	AZ	189	ARG
25	AZ	307	PRO
25	AZ	318	ALA
25	AZ	357	PRO
27	B1	63	ALA
27	B1	64	ALA
29	B3	49	LYS
29	B3	51	ALA
32	B6	43	CYS
33	B7	2	LYS
33	B7	9	ARG
33	B7	44	PRO
34	B8	25	MET
34	B8	40	GLU
35	B9	31	LYS
39	BD	74	GLY
39	BD	196	VAL
39	BD	260	ARG
40	BE	61	ARG
40	BE	121	ASN
40	BE	167	VAL
41	BF	82	ILE
41	BF	190	GLU
42	BG	43	LEU
42	BG	53	LEU
42	BG	75	LYS
42	BG	155	MET
43	BH	67	LEU
43	BH	154	PRO
46	BN	44	PRO
47	BO	13	ASN
47	BO	51	ALA
48	BP	12	ALA
48	BP	20	GLY
48	BP	25	SER
49	BQ	99	PRO
50	BR	68	ARG
50	BR	75	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
52	BT	15	VAL
52	BT	46	GLU
52	BT	97	ALA
54	BV	51	VAL
55	BW	41	LYS
55	BW	42	ARG
55	BW	59	VAL
56	BX	94	GLY
57	BY	27	VAL
57	BY	62	GLU
2	CB	37	ASN
2	CB	63	MET
2	CB	84	GLU
3	CC	13	GLY
3	CC	91	LEU
4	CD	14	ARG
4	CD	61	LYS
4	CD	73	ARG
4	CD	164	ALA
6	CF	42	GLU
7	CG	36	LYS
7	CG	94	ARG
7	CG	146	GLU
8	CH	6	ILE
8	CH	76	PRO
9	CI	34	ASN
10	CJ	33	GLN
10	CJ	51	ARG
10	CJ	56	HIS
11	CK	35	PRO
13	CM	41	PRO
14	CN	23	ARG
15	CO	54	ARG
15	CO	88	ARG
17	CQ	68	ARG
17	CQ	69	LYS
20	CT	18	GLN
20	CT	39	LYS
20	CT	51	GLU
20	CT	97	ALA
21	CU	10	ARG
25	CZ	144	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	CZ	189	ARG
25	CZ	307	PRO
25	CZ	318	ALA
28	D2	58	ALA
31	D5	14	ALA
32	D6	43	CYS
33	D7	9	ARG
33	D7	44	PRO
34	D8	29	LYS
34	D8	40	GLU
38	DC	121	GLY
39	DD	12	SER
39	DD	32	SER
39	DD	272	ALA
40	DE	61	ARG
40	DE	112	GLY
40	DE	167	VAL
42	DG	10	LYS
42	DG	121	ASN
42	DG	128	ARG
43	DH	67	LEU
43	DH	154	PRO
46	DN	44	PRO
47	DO	13	ASN
47	DO	51	ALA
48	DP	20	GLY
48	DP	25	SER
48	DP	56	SER
49	DQ	49	ALA
49	DQ	99	PRO
50	DR	68	ARG
52	DT	131	ALA
53	DU	93	LYS
54	DV	59	ALA
55	DW	41	LYS
55	DW	42	ARG
55	DW	53	SER
56	DX	14	SER
56	DX	94	GLY
57	DY	62	GLU
58	DZ	27	VAL
58	DZ	75	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
58	DZ	83	PRO
58	DZ	170	THR
2	AB	165	VAL
3	AC	41	GLY
3	AC	143	GLU
3	AC	181	ASN
4	AD	4	TYR
4	AD	5	ILE
4	AD	160	GLN
4	AD	164	ALA
5	AE	149	GLU
6	AF	11	ASN
6	AF	33	TYR
7	AG	28	ASN
7	AG	120	ILE
8	AH	110	ALA
8	AH	121	ASP
10	AJ	16	LEU
10	AJ	33	GLN
10	AJ	56	HIS
13	AM	113	PRO
15	AO	18	PHE
15	AO	29	VAL
16	AP	13	HIS
16	AP	33	ILE
17	AQ	27	PHE
17	AQ	47	PRO
18	AR	51	LEU
18	AR	55	ARG
20	AT	20	LEU
25	AZ	169	PRO
25	AZ	222	LEU
28	B2	17	SER
29	B3	12	PRO
31	B5	4	HIS
31	B5	14	ALA
33	B7	16	HIS
34	B8	29	LYS
34	B8	33	ASN
38	BC	200	LYS
39	BD	12	SER
39	BD	28	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	BD	156	ALA
40	BE	27	LEU
40	BE	45	THR
40	BE	52	LEU
40	BE	86	PRO
41	BF	9	ILE
41	BF	25	PRO
42	BG	121	ASN
42	BG	138	GLN
43	BH	47	GLU
48	BP	31	ALA
49	BQ	49	ALA
50	BR	67	LEU
51	BS	14	VAL
51	BS	22	GLY
51	BS	75	GLU
52	BT	131	ALA
53	BU	92	ARG
54	BV	49	THR
54	BV	89	GLN
55	BW	53	SER
55	BW	91	GLY
56	BX	6	ASP
56	BX	14	SER
56	BX	17	ALA
56	BX	32	PRO
57	BY	26	LYS
57	BY	101	LYS
58	BZ	82	ARG
58	BZ	176	PRO
2	CB	178	ARG
2	CB	204	ASN
2	CB	209	ARG
3	CC	12	LEU
3	CC	55	VAL
3	CC	123	GLN
3	CC	143	GLU
3	CC	181	ASN
4	CD	4	TYR
4	CD	5	ILE
4	CD	50	ARG
5	CE	149	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
6	CF	33	TYR
7	CG	102	ARG
10	CJ	16	LEU
13	CM	4	ILE
13	CM	55	ARG
13	CM	113	PRO
13	CM	114	ARG
14	CN	22	THR
14	CN	55	GLY
15	CO	18	PHE
15	CO	25	THR
16	CP	13	HIS
16	CP	16	HIS
16	CP	33	ILE
17	CQ	27	PHE
18	CR	21	LYS
18	CR	55	ARG
19	CS	67	VAL
20	CT	20	LEU
20	CT	88	VAL
20	CT	98	PRO
25	CZ	169	PRO
27	D1	53	VAL
27	D1	95	LEU
28	D2	41	ILE
29	D3	12	PRO
29	D3	49	LYS
31	D5	4	HIS
33	D7	2	LYS
34	D8	25	MET
34	D8	33	ASN
38	DC	200	LYS
39	DD	28	GLU
39	DD	159	ALA
39	DD	260	ARG
40	DE	45	THR
40	DE	52	LEU
40	DE	86	PRO
40	DE	121	ASN
41	DF	9	ILE
41	DF	25	PRO
41	DF	190	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	DG	130	ASN
42	DG	138	GLN
46	DN	64	GLY
48	DP	31	ALA
49	DQ	53	ALA
51	DS	14	VAL
51	DS	22	GLY
52	DT	83	ILE
52	DT	97	ALA
53	DU	92	ARG
53	DU	100	VAL
54	DV	49	THR
54	DV	51	VAL
54	DV	89	GLN
56	DX	6	ASP
56	DX	32	PRO
57	DY	26	LYS
57	DY	101	LYS
58	DZ	12	GLY
58	DZ	24	LEU
58	DZ	129	SER
2	AB	82	ARG
2	AB	143	GLU
2	AB	234	PRO
3	AC	7	PRO
3	AC	12	LEU
4	AD	50	ARG
4	AD	61	LYS
5	AE	70	PRO
5	AE	72	GLN
7	AG	14	PRO
7	AG	96	GLN
10	AJ	27	ALA
10	AJ	29	ARG
12	AL	108	ALA
13	AM	106	ASN
15	AO	25	THR
16	AP	16	HIS
19	AS	67	VAL
20	AT	88	VAL
20	AT	98	PRO
21	AU	9	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	AZ	35	ALA
32	B6	9	LEU
33	B7	37	LYS
35	B9	20	HIS
38	BC	148	ASN
39	BD	33	LEU
39	BD	36	PRO
39	BD	159	ALA
40	BE	55	ASN
40	BE	72	VAL
40	BE	173	VAL
40	BE	196	VAL
42	BG	97	ASP
42	BG	117	PHE
43	BH	93	GLY
46	BN	40	PRO
46	BN	134	ARG
51	BS	73	LEU
52	BT	23	ARG
52	BT	83	ILE
53	BU	102	GLU
57	BY	22	GLY
57	BY	50	ARG
57	BY	92	ASN
2	CB	165	VAL
2	CB	211	ILE
2	CB	234	PRO
3	CC	7	PRO
3	CC	36	ASP
3	CC	41	GLY
4	CD	101	LEU
4	CD	151	LYS
6	CF	11	ASN
7	CG	120	ILE
8	CH	110	ALA
10	CJ	27	ALA
10	CJ	29	ARG
11	CK	96	ARG
12	CL	6	THR
15	CO	12	ILE
15	CO	29	VAL
17	CQ	47	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
18	CR	33	ASP
18	CR	51	LEU
20	CT	100	ILE
25	CZ	222	LEU
35	D9	20	HIS
38	DC	132	GLY
39	DD	36	PRO
39	DD	74	GLY
40	DE	55	ASN
40	DE	70	ALA
40	DE	72	VAL
40	DE	190	GLY
40	DE	196	VAL
42	DG	8	LYS
42	DG	112	PRO
43	DH	47	GLU
46	DN	134	ARG
49	DQ	67	ARG
50	DR	8	ARG
51	DS	73	LEU
52	DT	23	ARG
53	DU	102	GLU
54	DV	19	LYS
55	DW	35	ILE
57	DY	22	GLY
57	DY	50	ARG
57	DY	92	ASN
58	DZ	82	ARG
2	AB	211	ILE
3	AC	57	ILE
3	AC	66	VAL
5	AE	85	GLY
8	AH	6	ILE
9	AI	41	VAL
14	AN	55	GLY
15	AO	12	ILE
20	AT	100	ILE
21	AU	4	GLY
25	AZ	34	VAL
28	B2	42	GLY
38	BC	132	GLY
39	BD	42	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	BE	56	PRO
40	BE	190	GLY
43	BH	92	ILE
46	BN	64	GLY
47	BO	115	VAL
53	BU	100	VAL
54	BV	22	VAL
54	BV	48	GLY
57	BY	75	ILE
58	BZ	15	PRO
58	BZ	22	GLY
58	BZ	120	ILE
58	BZ	141	VAL
58	BZ	165	VAL
2	CB	166	ASP
5	CE	13	ILE
7	CG	14	PRO
9	CI	41	VAL
12	CL	29	GLY
13	CM	60	VAL
20	CT	101	GLY
21	CU	4	GLY
25	CZ	17	ILE
25	CZ	34	VAL
27	D1	86	SER
33	D7	38	GLY
43	DH	92	ILE
43	DH	93	GLY
46	DN	40	PRO
47	DO	115	VAL
48	DP	104	GLY
51	DS	90	GLY
54	DV	22	VAL
55	DW	91	GLY
57	DY	75	ILE
58	DZ	160	GLY
3	AC	99	VAL
4	AD	28	SER
5	AE	13	ILE
13	AM	60	VAL
19	AS	31	ILE
20	AT	101	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	AZ	17	ILE
25	AZ	173	GLY
25	AZ	186	PRO
25	AZ	223	MET
25	AZ	257	GLY
39	BD	41	GLY
39	BD	244	ARG
48	BP	104	GLY
51	BS	90	GLY
52	BT	30	VAL
58	BZ	90	VAL
58	BZ	133	ILE
58	BZ	158	PRO
3	CC	57	ILE
3	CC	66	VAL
3	CC	99	VAL
25	CZ	173	GLY
25	CZ	186	PRO
25	CZ	223	MET
25	CZ	257	GLY
39	DD	35	LYS
39	DD	42	GLY
39	DD	244	ARG
40	DE	56	PRO
40	DE	173	VAL
51	DS	49	VAL
52	DT	30	VAL
54	DV	48	GLY
58	DZ	15	PRO
58	DZ	159	PRO
16	AP	46	PRO
18	AR	22	VAL
25	AZ	128	VAL
28	B2	63	VAL
30	B4	19	GLY
39	BD	35	LYS
43	BH	128	PRO
46	BN	95	PRO
51	BS	49	VAL
52	BT	102	ILE
52	BT	110	ILE
58	BZ	61	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
58	BZ	74	VAL
2	CB	223	ILE
3	CC	114	PRO
5	CE	85	GLY
9	CI	100	GLY
16	CP	46	PRO
25	CZ	128	VAL
30	D4	19	GLY
39	DD	41	GLY
39	DD	196	VAL
43	DH	128	PRO
52	DT	110	ILE
58	DZ	22	GLY
2	AB	223	ILE
3	AC	116	VAL
5	AE	22	GLY
8	AH	72	PRO
9	AI	100	GLY
11	AK	58	PRO
25	AZ	211	PRO
25	AZ	340	PRO
28	B2	41	ILE
29	B3	11	SER
29	B3	50	VAL
42	BG	114	ILE
48	BP	146	VAL
52	BT	88	ILE
56	BX	8	ILE
4	CD	28	SER
5	CE	22	GLY
5	CE	70	PRO
11	CK	58	PRO
13	CM	45	VAL
13	CM	85	GLY
14	CN	18	VAL
17	CQ	90	ILE
19	CS	31	ILE
25	CZ	340	PRO
29	D3	50	VAL
38	DC	189	ILE
46	DN	95	PRO
48	DP	146	VAL

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Mol	Chain	Res	Type
52	DT	88	ILE
56	DX	8	ILE
58	DZ	141	VAL
3	AC	114	PRO
13	AM	85	GLY
40	BE	112	GLY
42	DG	15	VAL
49	DQ	73	PRO
52	DT	102	ILE
39	BD	245	PRO
39	DD	245	PRO

### 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 X-ray entries followed by that with respect to entries of similar resolution.

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
2	AB	202/220 (92%)	178 (88%)	24 (12%)	5 27
2	CB	202/220 (92%)	179 (89%)	23 (11%)	5 29
3	AC	160/188 (85%)	148 (92%)	12 (8%)	13 45
3	CC	160/188 (85%)	148 (92%)	12 (8%)	13 45
4	AD	180/181 (99%)	147 (82%)	33 (18%)	1 10
4	CD	180/181 (99%)	146 (81%)	34 (19%)	1 9
5	AE	115/123 (94%)	103 (90%)	12 (10%)	7 33
5	CE	115/123 (94%)	103 (90%)	12 (10%)	7 33
6	AF	90/90 (100%)	79 (88%)	11 (12%)	5 26
6	CF	90/90 (100%)	78 (87%)	12 (13%)	4 23
7	AG	126/127 (99%)	113 (90%)	13 (10%)	7 34
7	CG	126/127 (99%)	113 (90%)	13 (10%)	7 34
8	AH	119/119 (100%)	100 (84%)	19 (16%)	2 16
8	CH	119/119 (100%)	101 (85%)	18 (15%)	3 19
9	AI	98/99 (99%)	86 (88%)	12 (12%)	5 26

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	CI	98/99 (99%)	86 (88%)	12 (12%)	5	26
10	AJ	88/92 (96%)	71 (81%)	17 (19%)	1	9
10	CJ	88/92 (96%)	71 (81%)	17 (19%)	1	9
11	AK	90/99 (91%)	81 (90%)	9 (10%)	7	35
11	CK	90/99 (91%)	82 (91%)	8 (9%)	9	40
12	AL	104/111 (94%)	82 (79%)	22 (21%)	1	7
12	CL	104/111 (94%)	82 (79%)	22 (21%)	1	7
13	AM	99/101 (98%)	88 (89%)	11 (11%)	6	31
13	CM	99/101 (98%)	88 (89%)	11 (11%)	6	31
14	AN	49/50 (98%)	40 (82%)	9 (18%)	1	10
14	CN	49/50 (98%)	40 (82%)	9 (18%)	1	10
15	AO	79/80 (99%)	69 (87%)	10 (13%)	4	24
15	CO	79/80 (99%)	68 (86%)	11 (14%)	3	22
16	AP	72/74 (97%)	65 (90%)	7 (10%)	8	36
16	CP	72/74 (97%)	65 (90%)	7 (10%)	8	36
17	AQ	94/97 (97%)	88 (94%)	6 (6%)	17	52
17	CQ	94/97 (97%)	87 (93%)	7 (7%)	13	46
18	AR	61/77 (79%)	56 (92%)	5 (8%)	11	42
18	CR	61/77 (79%)	56 (92%)	5 (8%)	11	42
19	AS	69/80 (86%)	59 (86%)	10 (14%)	3	20
19	CS	69/80 (86%)	59 (86%)	10 (14%)	3	20
20	AT	76/82 (93%)	63 (83%)	13 (17%)	2	13
20	CT	76/82 (93%)	63 (83%)	13 (17%)	2	13
21	AU	19/22 (86%)	17 (90%)	2 (10%)	7	33
21	CU	19/22 (86%)	17 (90%)	2 (10%)	7	33
25	AZ	314/339 (93%)	272 (87%)	42 (13%)	4	23
25	CZ	314/339 (93%)	273 (87%)	41 (13%)	4	23
26	B0	66/67 (98%)	52 (79%)	14 (21%)	1	7
26	D0	66/67 (98%)	51 (77%)	15 (23%)	1	5
27	B1	78/83 (94%)	59 (76%)	19 (24%)	0	4
27	D1	78/83 (94%)	59 (76%)	19 (24%)	0	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
28	B2	66/67 (98%)	49 (74%)	17 (26%)	0	4
28	D2	66/67 (98%)	56 (85%)	10 (15%)	3	19
29	B3	51/52 (98%)	44 (86%)	7 (14%)	3	22
29	D3	51/52 (98%)	44 (86%)	7 (14%)	3	22
30	B4	39/63 (62%)	26 (67%)	13 (33%)	0	2
30	D4	39/63 (62%)	26 (67%)	13 (33%)	0	2
31	B5	51/52 (98%)	47 (92%)	4 (8%)	12	44
31	D5	51/52 (98%)	47 (92%)	4 (8%)	12	44
32	B6	49/52 (94%)	41 (84%)	8 (16%)	2	15
32	D6	49/52 (94%)	40 (82%)	9 (18%)	1	10
33	B7	41/42 (98%)	32 (78%)	9 (22%)	1	6
33	D7	41/42 (98%)	33 (80%)	8 (20%)	1	9
34	B8	53/55 (96%)	45 (85%)	8 (15%)	3	19
34	D8	53/55 (96%)	45 (85%)	8 (15%)	3	19
35	B9	34/34 (100%)	30 (88%)	4 (12%)	5	28
35	D9	34/34 (100%)	30 (88%)	4 (12%)	5	28
38	BC	180/181 (99%)	157 (87%)	23 (13%)	4	24
38	DC	180/181 (99%)	157 (87%)	23 (13%)	4	24
39	BD	217/218 (100%)	180 (83%)	37 (17%)	2	13
39	DD	217/218 (100%)	178 (82%)	39 (18%)	1	11
40	BE	165/166 (99%)	142 (86%)	23 (14%)	3	22
40	DE	165/166 (99%)	143 (87%)	22 (13%)	4	23
41	BF	165/166 (99%)	152 (92%)	13 (8%)	12	44
41	DF	165/166 (99%)	152 (92%)	13 (8%)	12	44
42	BG	155/156 (99%)	130 (84%)	25 (16%)	2	16
42	DG	155/156 (99%)	129 (83%)	26 (17%)	2	14
43	BH	132/148 (89%)	118 (89%)	14 (11%)	6	32
43	DH	132/148 (89%)	119 (90%)	13 (10%)	8	36
46	BN	117/119 (98%)	103 (88%)	14 (12%)	5	27
46	DN	117/119 (98%)	102 (87%)	15 (13%)	4	24
47	BO	100/100 (100%)	90 (90%)	10 (10%)	7	35

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
47	DO	100/100 (100%)	90 (90%)	10 (10%)	7	35
48	BP	112/116 (97%)	88 (79%)	24 (21%)	1	7
48	DP	112/116 (97%)	89 (80%)	23 (20%)	1	7
49	BQ	111/111 (100%)	91 (82%)	20 (18%)	1	11
49	DQ	111/111 (100%)	91 (82%)	20 (18%)	1	11
50	BR	100/101 (99%)	86 (86%)	14 (14%)	3	21
50	DR	100/101 (99%)	82 (82%)	18 (18%)	1	11
51	BS	77/88 (88%)	66 (86%)	11 (14%)	3	21
51	DS	77/88 (88%)	66 (86%)	11 (14%)	3	21
52	BT	120/127 (94%)	99 (82%)	21 (18%)	2	12
52	DT	120/127 (94%)	100 (83%)	20 (17%)	2	14
53	BU	92/94 (98%)	84 (91%)	8 (9%)	10	41
53	DU	92/94 (98%)	84 (91%)	8 (9%)	10	41
54	BV	82/82 (100%)	66 (80%)	16 (20%)	1	9
54	DV	82/82 (100%)	66 (80%)	16 (20%)	1	9
55	BW	91/92 (99%)	79 (87%)	12 (13%)	4	23
55	DW	91/92 (99%)	79 (87%)	12 (13%)	4	23
56	BX	74/78 (95%)	67 (90%)	7 (10%)	8	37
56	DX	74/78 (95%)	67 (90%)	7 (10%)	8	37
57	BY	84/91 (92%)	68 (81%)	16 (19%)	1	9
57	DY	84/91 (92%)	68 (81%)	16 (19%)	1	9
58	BZ	155/179 (87%)	127 (82%)	28 (18%)	1	11
58	DZ	155/179 (87%)	131 (84%)	24 (16%)	2	18
All	All	10322/10862 (95%)	8852 (86%)	1470 (14%)	3	21

All (1470) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	16	HIS
2	AB	17	PHE
2	AB	36	ARG
2	AB	44	LEU
2	AB	48	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	AB	52	GLU
2	AB	56	ARG
2	AB	63	MET
2	AB	69	LEU
2	AB	79	ASP
2	AB	92	TYR
2	AB	93	VAL
2	AB	94	ASN
2	AB	130	ARG
2	AB	137	ARG
2	AB	145	LEU
2	AB	163	PHE
2	AB	172	ILE
2	AB	178	ARG
2	AB	187	LEU
2	AB	196	LEU
2	AB	204	ASN
2	AB	205	ASP
3	AC	5	ILE
3	AC	16	ARG
3	AC	18	TRP
3	AC	29	TYR
3	AC	37	GLN
3	AC	54	ARG
3	AC	62	ASP
3	AC	79	ARG
3	AC	107	GLN
3	AC	120	VAL
3	AC	164	ARG
3	AC	188	LEU
4	AD	3	ARG
4	AD	9	CYS
4	AD	13	ARG
4	AD	15	GLU
4	AD	20	TYR
4	AD	26	CYS
4	AD	27	TYR
4	AD	33	MET
4	AD	35	ARG
4	AD	36	ARG
4	AD	38	TYR
4	AD	49	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	AD	58	LEU
4	AD	60	GLU
4	AD	67	ILE
4	AD	86	LYS
4	AD	89	THR
4	AD	97	LEU
4	AD	98	GLU
4	AD	107	ARG
4	AD	122	ARG
4	AD	129	ASN
4	AD	131	ARG
4	AD	132	ARG
4	AD	135	LEU
4	AD	138	TYR
4	AD	145	GLU
4	AD	160	GLN
4	AD	163	GLU
4	AD	179	GLU
4	AD	187	ARG
4	AD	190	ASP
4	AD	192	GLU
5	AE	7	GLU
5	AE	10	MET
5	AE	12	LEU
5	AE	20	GLN
5	AE	26	PHE
5	AE	43	LEU
5	AE	53	LEU
5	AE	73	ASN
5	AE	82	VAL
5	AE	120	THR
5	AE	137	GLU
5	AE	144	THR
6	AF	10	LEU
6	AF	14	LEU
6	AF	25	ILE
6	AF	31	GLU
6	AF	43	LEU
6	AF	61	LEU
6	AF	69	GLU
6	AF	84	ASN
6	AF	86	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
6	AF	90	VAL
6	AF	98	LEU
7	AG	13	GLN
7	AG	20	ASP
7	AG	38	LEU
7	AG	41	ARG
7	AG	54	THR
7	AG	69	VAL
7	AG	72	ARG
7	AG	84	ASN
7	AG	89	MET
7	AG	91	VAL
7	AG	104	LEU
7	AG	112	PRO
7	AG	124	LEU
8	AH	1	MET
8	AH	2	LEU
8	AH	3	THR
8	AH	14	ARG
8	AH	23	SER
8	AH	45	ILE
8	AH	52	ASP
8	AH	54	ASP
8	AH	77	GLU
8	AH	81	HIS
8	AH	82	HIS
8	AH	85	ARG
8	AH	94	TYR
8	AH	102	ARG
8	AH	109	ILE
8	AH	115	SER
8	AH	119	LEU
8	AH	127	LEU
8	AH	136	GLU
9	AI	4	TYR
9	AI	10	ARG
9	AI	78	LYS
9	AI	85	LEU
9	AI	95	LYS
9	AI	99	LEU
9	AI	108	VAL
9	AI	112	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
9	AI	114	TYR
9	AI	121	ARG
9	AI	125	TYR
9	AI	128	ARG
10	AJ	16	LEU
10	AJ	22	LYS
10	AJ	25	GLU
10	AJ	40	LEU
10	AJ	45	ARG
10	AJ	48	THR
10	AJ	50	ILE
10	AJ	54	PHE
10	AJ	55	LYS
10	AJ	57	LYS
10	AJ	59	SER
10	AJ	62	HIS
10	AJ	63	PHE
10	AJ	71	LEU
10	AJ	73	ASP
10	AJ	80	LYS
10	AJ	96	ILE
11	AK	14	VAL
11	AK	28	THR
11	AK	38	ASN
11	AK	67	ASP
11	AK	75	TYR
11	AK	82	VAL
11	AK	114	VAL
11	AK	115	PRO
11	AK	125	PHE
12	AL	6	THR
12	AL	20	LYS
12	AL	27	LEU
12	AL	36	VAL
12	AL	37	CYS
12	AL	38	THR
12	AL	41	ARG
12	AL	42	THR
12	AL	52	LEU
12	AL	53	ARG
12	AL	58	VAL
12	AL	67	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
12	AL	79	GLU
12	AL	80	HIS
12	AL	84	LEU
12	AL	85	ILE
12	AL	89	ARG
12	AL	93	LEU
12	AL	98	TYR
12	AL	100	ILE
12	AL	104	VAL
12	AL	106	ASP
13	AM	47	ASP
13	AM	64	TRP
13	AM	67	GLU
13	AM	70	LEU
13	AM	71	ARG
13	AM	81	LEU
13	AM	93	ARG
13	AM	108	ARG
13	AM	111	LYS
13	AM	115	LYS
13	AM	120	LYS
14	AN	14	PRO
14	AN	18	VAL
14	AN	21	TYR
14	AN	29	ARG
14	AN	32	SER
14	AN	41	ARG
14	AN	42	ILE
14	AN	44	LEU
14	AN	57	ARG
15	AO	3	ILE
15	AO	10	LYS
15	AO	34	LEU
15	AO	38	ARG
15	AO	39	LEU
15	AO	54	ARG
15	AO	81	LEU
15	AO	82	ILE
15	AO	85	LEU
15	AO	88	ARG
16	AP	20	VAL
16	AP	22	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
16	AP	27	LYS
16	AP	36	ILE
16	AP	58	TYR
16	AP	69	THR
16	AP	82	GLN
17	AQ	7	THR
17	AQ	35	VAL
17	AQ	49	GLU
17	AQ	52	LYS
17	AQ	55	ASP
17	AQ	74	LEU
18	AR	46	GLU
18	AR	55	ARG
18	AR	58	LEU
18	AR	65	ILE
18	AR	88	LYS
19	AS	6	LYS
19	AS	7	LYS
19	AS	10	PHE
19	AS	15	LEU
19	AS	22	LEU
19	AS	27	GLU
19	AS	29	ARG
19	AS	37	ARG
19	AS	44	MET
19	AS	77	THR
20	AT	22	ARG
20	AT	23	ARG
20	AT	24	LEU
20	AT	26	ASN
20	AT	36	LEU
20	AT	41	ILE
20	AT	42	GLN
20	AT	45	GLN
20	AT	53	LEU
20	AT	64	ASP
20	AT	74	LYS
20	AT	85	MET
20	AT	93	GLU
21	AU	5	ASP
21	AU	17	THR
25	AZ	13	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	AZ	21	ASP
25	AZ	27	LEU
25	AZ	70	TYR
25	AZ	74	LYS
25	AZ	87	ASP
25	AZ	91	ASN
25	AZ	113	MET
25	AZ	121	LEU
25	AZ	149	LEU
25	AZ	163	PHE
25	AZ	167	GLU
25	AZ	174	SER
25	AZ	203	LEU
25	AZ	218	ASP
25	AZ	223	MET
25	AZ	231	ILE
25	AZ	234	ARG
25	AZ	243	GLU
25	AZ	244	ARG
25	AZ	247	VAL
25	AZ	260	PRO
25	AZ	263	ARG
25	AZ	264	ARG
25	AZ	265	THR
25	AZ	268	THR
25	AZ	277	LEU
25	AZ	279	GLU
25	AZ	284	ASP
25	AZ	285	ASN
25	AZ	286	VAL
25	AZ	295	ARG
25	AZ	300	ARG
25	AZ	303	VAL
25	AZ	331	HIS
25	AZ	335	PHE
25	AZ	348	ASP
25	AZ	349	VAL
25	AZ	359	VAL
25	AZ	367	ASN
25	AZ	395	VAL
25	AZ	401	THR
26	B0	11	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
26	B0	12	ASN
26	B0	14	ARG
26	B0	20	ARG
26	B0	27	GLU
26	B0	31	VAL
26	B0	47	PRO
26	B0	56	ASP
26	B0	60	PHE
26	B0	62	LEU
26	B0	64	ASP
26	B0	71	ASP
26	B0	78	TYR
26	B0	84	LEU
27	B1	7	ILE
27	B1	11	ARG
27	B1	13	ILE
27	B1	30	VAL
27	B1	33	LYS
27	B1	37	ILE
27	B1	38	SER
27	B1	39	LYS
27	B1	45	ASN
27	B1	46	LEU
27	B1	49	VAL
27	B1	57	GLU
27	B1	69	LYS
27	B1	75	GLU
27	B1	80	LEU
27	B1	82	LEU
27	B1	83	GLU
27	B1	92	LYS
27	B1	95	LEU
28	B2	3	LEU
28	B2	7	ARG
28	B2	9	GLN
28	B2	10	LEU
28	B2	17	SER
28	B2	21	LEU
28	B2	33	MET
28	B2	34	GLU
28	B2	35	LEU
28	B2	38	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
28	B2	43	GLN
28	B2	44	LEU
28	B2	51	ARG
28	B2	57	ILE
28	B2	60	LEU
28	B2	64	LEU
28	B2	68	ARG
29	B3	28	LEU
29	B3	31	LEU
29	B3	35	ARG
29	B3	38	GLU
29	B3	40	THR
29	B3	46	ASN
29	B3	52	HIS
30	B4	5	ILE
30	B4	6	HIS
30	B4	8	LYS
30	B4	9	LEU
30	B4	10	VAL
30	B4	20	ASN
30	B4	22	ILE
30	B4	25	TYR
30	B4	27	THR
30	B4	32	TYR
30	B4	34	GLU
30	B4	35	VAL
30	B4	47	GLN
31	B5	3	LYS
31	B5	51	TYR
31	B5	56	LYS
31	B5	57	VAL
32	B6	10	LEU
32	B6	31	PRO
32	B6	42	TRP
32	B6	43	CYS
32	B6	45	LYS
32	B6	49	HIS
32	B6	52	VAL
32	B6	53	LYS
33	B7	1	MET
33	B7	8	ASN
33	B7	14	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	B7	21	ARG
33	B7	24	THR
33	B7	41	ARG
33	B7	44	PRO
33	B7	47	ARG
33	B7	48	LYS
34	B8	30	ARG
34	B8	34	TRP
34	B8	44	LYS
34	B8	47	LYS
34	B8	48	PHE
34	B8	56	GLU
34	B8	61	LEU
34	B8	64	TYR
35	B9	1	MET
35	B9	14	CYS
35	B9	28	GLU
35	B9	29	ASN
38	BC	3	HIS
38	BC	6	ARG
38	BC	12	GLU
38	BC	14	VAL
38	BC	17	ASN
38	BC	30	LYS
38	BC	36	LYS
38	BC	40	THR
38	BC	52	ARG
38	BC	55	ASP
38	BC	70	LYS
38	BC	71	GLN
38	BC	72	VAL
38	BC	85	GLU
38	BC	108	MET
38	BC	111	ASP
38	BC	113	VAL
38	BC	139	ASN
38	BC	155	GLU
38	BC	168	THR
38	BC	183	GLU
38	BC	199	HIS
38	BC	227	HIS
39	BD	10	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	BD	24	ILE
39	BD	28	GLU
39	BD	33	LEU
39	BD	35	LYS
39	BD	37	LEU
39	BD	43	ARG
39	BD	52	ARG
39	BD	59	LYS
39	BD	61	LEU
39	BD	63	ARG
39	BD	64	ILE
39	BD	65	ILE
39	BD	88	ARG
39	BD	92	ILE
39	BD	94	LEU
39	BD	95	LEU
39	BD	103	ARG
39	BD	106	ILE
39	BD	122	ASP
39	BD	131	LEU
39	BD	157	ARG
39	BD	166	GLN
39	BD	174	ILE
39	BD	183	ARG
39	BD	200	ASP
39	BD	212	SER
39	BD	221	VAL
39	BD	242	ARG
39	BD	246	PRO
39	BD	252	TRP
39	BD	257	LEU
39	BD	260	ARG
39	BD	267	SER
39	BD	271	ILE
39	BD	273	ARG
39	BD	275	LYS
40	BE	35	GLN
40	BE	36	ARG
40	BE	42	ASP
40	BE	51	PHE
40	BE	55	ASN
40	BE	57	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	BE	58	ARG
40	BE	61	ARG
40	BE	67	PHE
40	BE	69	LYS
40	BE	76	ARG
40	BE	79	ARG
40	BE	82	ARG
40	BE	95	ILE
40	BE	121	ASN
40	BE	127	ASP
40	BE	135	HIS
40	BE	169	ASN
40	BE	171	GLU
40	BE	181	LEU
40	BE	188	VAL
40	BE	192	ASN
40	BE	202	LYS
41	BF	17	ARG
41	BF	28	ILE
41	BF	44	ARG
41	BF	83	PHE
41	BF	88	VAL
41	BF	97	TYR
41	BF	122	LYS
41	BF	138	GLU
41	BF	139	PHE
41	BF	149	ASP
41	BF	160	ASN
41	BF	164	ARG
41	BF	169	ASN
42	BG	12	TYR
42	BG	21	ARG
42	BG	29	TRP
42	BG	33	ARG
42	BG	34	LEU
42	BG	36	LYS
42	BG	45	GLU
42	BG	52	ILE
42	BG	58	GLN
42	BG	60	LEU
42	BG	67	LYS
42	BG	71	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	BG	80	PHE
42	BG	82	LEU
42	BG	87	PRO
42	BG	103	LEU
42	BG	125	PHE
42	BG	133	LEU
42	BG	135	LEU
42	BG	139	LEU
42	BG	146	TYR
42	BG	153	ARG
42	BG	162	THR
42	BG	166	ASP
42	BG	176	LEU
43	BH	41	MET
43	BH	43	VAL
43	BH	53	GLU
43	BH	54	ARG
43	BH	65	HIS
43	BH	92	ILE
43	BH	104	GLU
43	BH	122	THR
43	BH	139	GLN
43	BH	143	GLN
43	BH	152	ARG
43	BH	153	LYS
43	BH	157	TYR
43	BH	163	TYR
46	BN	1	MET
46	BN	4	TYR
46	BN	19	GLU
46	BN	25	ARG
46	BN	26	LEU
46	BN	32	THR
46	BN	34	LEU
46	BN	45	ASN
46	BN	48	MET
46	BN	56	ASN
46	BN	63	THR
46	BN	65	LYS
46	BN	99	LEU
46	BN	127	ASP
47	BO	4	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
47	BO	8	LEU
47	BO	10	VAL
47	BO	23	ARG
47	BO	32	TYR
47	BO	48	PRO
47	BO	92	GLU
47	BO	99	PHE
47	BO	104	ARG
47	BO	105	GLU
48	BP	16	ARG
48	BP	18	ARG
48	BP	19	VAL
48	BP	27	HIS
48	BP	33	ARG
48	BP	35	HIS
48	BP	40	SER
48	BP	45	LEU
48	BP	52	GLU
48	BP	55	ARG
48	BP	56	SER
48	BP	59	LEU
48	BP	61	ARG
48	BP	62	LEU
48	BP	68	GLN
48	BP	70	GLN
48	BP	79	ARG
48	BP	85	LEU
48	BP	91	PHE
48	BP	100	LEU
48	BP	101	VAL
48	BP	108	LYS
48	BP	110	TYR
48	BP	130	PHE
49	BQ	1	MET
49	BQ	6	ARG
49	BQ	25	ASP
49	BQ	37	LEU
49	BQ	45	GLN
49	BQ	56	ARG
49	BQ	58	PHE
49	BQ	59	ARG
49	BQ	65	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
49	BQ	74	TYR
49	BQ	82	ARG
49	BQ	89	ASN
49	BQ	94	VAL
49	BQ	97	VAL
49	BQ	99	PRO
49	BQ	104	PHE
49	BQ	125	LEU
49	BQ	132	VAL
49	BQ	133	ARG
49	BQ	138	ASP
50	BR	2	ARG
50	BR	5	LYS
50	BR	8	ARG
50	BR	13	HIS
50	BR	18	LEU
50	BR	29	LEU
50	BR	36	THR
50	BR	44	LEU
50	BR	71	GLN
50	BR	77	ARG
50	BR	97	VAL
50	BR	99	LYS
50	BR	100	LEU
50	BR	113	LEU
51	BS	11	LYS
51	BS	12	PHE
51	BS	15	ARG
51	BS	18	ILE
51	BS	29	PHE
51	BS	36	TYR
51	BS	54	LEU
51	BS	57	LYS
51	BS	63	THR
51	BS	97	ARG
51	BS	106	ARG
52	BT	6	LEU
52	BT	24	PRO
52	BT	29	ARG
52	BT	32	TYR
52	BT	38	ASN
52	BT	39	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
52	BT	41	ARG
52	BT	48	ILE
52	BT	57	PHE
52	BT	58	ASN
52	BT	61	PHE
52	BT	65	LYS
52	BT	66	VAL
52	BT	72	VAL
52	BT	78	LEU
52	BT	82	LEU
52	BT	90	GLN
52	BT	99	LEU
52	BT	102	ILE
52	BT	124	ASP
52	BT	128	GLU
53	BU	8	VAL
53	BU	18	LEU
53	BU	20	LEU
53	BU	56	ASP
53	BU	66	ASN
53	BU	74	LEU
53	BU	108	GLU
53	BU	114	LYS
54	BV	13	ARG
54	BV	14	VAL
54	BV	16	PRO
54	BV	18	LEU
54	BV	19	LYS
54	BV	20	LEU
54	BV	21	ARG
54	BV	35	LEU
54	BV	39	LEU
54	BV	50	PRO
54	BV	61	VAL
54	BV	71	LEU
54	BV	75	PHE
54	BV	89	GLN
54	BV	95	LEU
54	BV	99	ILE
55	BW	11	ARG
55	BW	17	VAL
55	BW	34	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
55	BW	36	LEU
55	BW	51	LEU
55	BW	52	GLU
55	BW	71	VAL
55	BW	77	ASP
55	BW	88	ARG
55	BW	92	ARG
55	BW	102	HIS
55	BW	103	ILE
56	BX	28	PHE
56	BX	39	ILE
56	BX	48	LYS
56	BX	57	LEU
56	BX	66	LEU
56	BX	68	ARG
56	BX	76	ARG
57	BY	2	ARG
57	BY	6	HIS
57	BY	7	VAL
57	BY	32	PRO
57	BY	49	VAL
57	BY	50	ARG
57	BY	53	PRO
57	BY	55	TYR
57	BY	56	PRO
57	BY	62	GLU
57	BY	67	LEU
57	BY	73	ARG
57	BY	75	ILE
57	BY	76	CYS
57	BY	77	PRO
57	BY	83	THR
58	BZ	6	LYS
58	BZ	18	LEU
58	BZ	28	MET
58	BZ	31	ARG
58	BZ	41	LEU
58	BZ	42	VAL
58	BZ	43	GLU
58	BZ	44	PHE
58	BZ	61	LEU
58	BZ	65	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
58	BZ	69	THR
58	BZ	70	LEU
58	BZ	72	ARG
58	BZ	76	LEU
58	BZ	79	ARG
58	BZ	81	ARG
58	BZ	97	GLU
58	BZ	103	ARG
58	BZ	104	PHE
58	BZ	123	ASP
58	BZ	127	LYS
58	BZ	132	ASN
58	BZ	134	PRO
58	BZ	150	LEU
58	BZ	154	ASP
58	BZ	163	LEU
58	BZ	166	SER
58	BZ	171	ILE
2	CB	15	VAL
2	CB	16	HIS
2	CB	17	PHE
2	CB	36	ARG
2	CB	44	LEU
2	CB	48	MET
2	CB	52	GLU
2	CB	56	ARG
2	CB	63	MET
2	CB	69	LEU
2	CB	79	ASP
2	CB	92	TYR
2	CB	93	VAL
2	CB	130	ARG
2	CB	137	ARG
2	CB	145	LEU
2	CB	163	PHE
2	CB	172	ILE
2	CB	178	ARG
2	CB	187	LEU
2	CB	196	LEU
2	CB	204	ASN
2	CB	205	ASP
3	CC	5	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	CC	16	ARG
3	CC	18	TRP
3	CC	29	TYR
3	CC	37	GLN
3	CC	54	ARG
3	CC	62	ASP
3	CC	79	ARG
3	CC	107	GLN
3	CC	120	VAL
3	CC	164	ARG
3	CC	188	LEU
4	CD	3	ARG
4	CD	9	CYS
4	CD	13	ARG
4	CD	15	GLU
4	CD	20	TYR
4	CD	26	CYS
4	CD	27	TYR
4	CD	33	MET
4	CD	35	ARG
4	CD	36	ARG
4	CD	38	TYR
4	CD	49	ARG
4	CD	58	LEU
4	CD	60	GLU
4	CD	67	ILE
4	CD	86	LYS
4	CD	89	THR
4	CD	97	LEU
4	CD	98	GLU
4	CD	99	SER
4	CD	107	ARG
4	CD	122	ARG
4	CD	129	ASN
4	CD	131	ARG
4	CD	132	ARG
4	CD	135	LEU
4	CD	138	TYR
4	CD	145	GLU
4	CD	160	GLN
4	CD	163	GLU
4	CD	179	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	CD	187	ARG
4	CD	190	ASP
4	CD	192	GLU
5	CE	7	GLU
5	CE	10	MET
5	CE	12	LEU
5	CE	20	GLN
5	CE	26	PHE
5	CE	43	LEU
5	CE	53	LEU
5	CE	73	ASN
5	CE	82	VAL
5	CE	120	THR
5	CE	137	GLU
5	CE	144	THR
6	CF	10	LEU
6	CF	14	LEU
6	CF	25	ILE
6	CF	31	GLU
6	CF	43	LEU
6	CF	61	LEU
6	CF	69	GLU
6	CF	83	ASP
6	CF	84	ASN
6	CF	86	ARG
6	CF	90	VAL
6	CF	98	LEU
7	CG	13	GLN
7	CG	20	ASP
7	CG	38	LEU
7	CG	41	ARG
7	CG	54	THR
7	CG	69	VAL
7	CG	72	ARG
7	CG	84	ASN
7	CG	89	MET
7	CG	91	VAL
7	CG	104	LEU
7	CG	112	PRO
7	CG	124	LEU
8	CH	1	MET
8	CH	2	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
8	CH	14	ARG
8	CH	23	SER
8	CH	45	ILE
8	CH	52	ASP
8	CH	54	ASP
8	CH	77	GLU
8	CH	81	HIS
8	CH	82	HIS
8	CH	85	ARG
8	CH	94	TYR
8	CH	102	ARG
8	CH	109	ILE
8	CH	115	SER
8	CH	119	LEU
8	CH	127	LEU
8	CH	136	GLU
9	CI	4	TYR
9	CI	10	ARG
9	CI	78	LYS
9	CI	85	LEU
9	CI	95	LYS
9	CI	99	LEU
9	CI	108	VAL
9	CI	112	LYS
9	CI	114	TYR
9	CI	121	ARG
9	CI	125	TYR
9	CI	128	ARG
10	CJ	16	LEU
10	CJ	22	LYS
10	CJ	25	GLU
10	CJ	40	LEU
10	CJ	45	ARG
10	CJ	48	THR
10	CJ	50	ILE
10	CJ	54	PHE
10	CJ	55	LYS
10	CJ	57	LYS
10	CJ	59	SER
10	CJ	62	HIS
10	CJ	63	PHE
10	CJ	71	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
10	CJ	73	ASP
10	CJ	80	LYS
10	CJ	96	ILE
11	CK	14	VAL
11	CK	28	THR
11	CK	38	ASN
11	CK	67	ASP
11	CK	75	TYR
11	CK	82	VAL
11	CK	114	VAL
11	CK	125	PHE
12	CL	6	THR
12	CL	20	LYS
12	CL	27	LEU
12	CL	36	VAL
12	CL	37	CYS
12	CL	38	THR
12	CL	41	ARG
12	CL	42	THR
12	CL	52	LEU
12	CL	53	ARG
12	CL	58	VAL
12	CL	67	THR
12	CL	79	GLU
12	CL	84	LEU
12	CL	85	ILE
12	CL	89	ARG
12	CL	93	LEU
12	CL	98	TYR
12	CL	100	ILE
12	CL	104	VAL
12	CL	105	TYR
12	CL	106	ASP
13	CM	47	ASP
13	CM	64	TRP
13	CM	67	GLU
13	CM	70	LEU
13	CM	71	ARG
13	CM	81	LEU
13	CM	93	ARG
13	CM	108	ARG
13	CM	111	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
13	CM	115	LYS
13	CM	120	LYS
14	CN	14	PRO
14	CN	18	VAL
14	CN	21	TYR
14	CN	29	ARG
14	CN	32	SER
14	CN	41	ARG
14	CN	42	ILE
14	CN	44	LEU
14	CN	57	ARG
15	CO	3	ILE
15	CO	10	LYS
15	CO	34	LEU
15	CO	38	ARG
15	CO	39	LEU
15	CO	46	HIS
15	CO	54	ARG
15	CO	81	LEU
15	CO	82	ILE
15	CO	85	LEU
15	CO	88	ARG
16	CP	20	VAL
16	CP	22	THR
16	CP	27	LYS
16	CP	36	ILE
16	CP	58	TYR
16	CP	69	THR
16	CP	82	GLN
17	CQ	7	THR
17	CQ	35	VAL
17	CQ	41	LYS
17	CQ	49	GLU
17	CQ	52	LYS
17	CQ	55	ASP
17	CQ	74	LEU
18	CR	46	GLU
18	CR	55	ARG
18	CR	58	LEU
18	CR	65	ILE
18	CR	88	LYS
19	CS	6	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
19	CS	7	LYS
19	CS	10	PHE
19	CS	15	LEU
19	CS	22	LEU
19	CS	27	GLU
19	CS	29	ARG
19	CS	37	ARG
19	CS	44	MET
19	CS	77	THR
20	CT	22	ARG
20	CT	23	ARG
20	CT	24	LEU
20	CT	26	ASN
20	CT	36	LEU
20	CT	41	ILE
20	CT	42	GLN
20	CT	45	GLN
20	CT	53	LEU
20	CT	64	ASP
20	CT	74	LYS
20	CT	85	MET
20	CT	93	GLU
21	CU	5	ASP
21	CU	17	THR
25	CZ	13	ASN
25	CZ	21	ASP
25	CZ	27	LEU
25	CZ	70	TYR
25	CZ	74	LYS
25	CZ	87	ASP
25	CZ	91	ASN
25	CZ	113	MET
25	CZ	121	LEU
25	CZ	149	LEU
25	CZ	163	PHE
25	CZ	167	GLU
25	CZ	174	SER
25	CZ	195	TRP
25	CZ	203	LEU
25	CZ	218	ASP
25	CZ	223	MET
25	CZ	231	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	CZ	234	ARG
25	CZ	243	GLU
25	CZ	244	ARG
25	CZ	260	PRO
25	CZ	263	ARG
25	CZ	265	THR
25	CZ	268	THR
25	CZ	277	LEU
25	CZ	279	GLU
25	CZ	284	ASP
25	CZ	285	ASN
25	CZ	286	VAL
25	CZ	295	ARG
25	CZ	300	ARG
25	CZ	303	VAL
25	CZ	331	HIS
25	CZ	335	PHE
25	CZ	348	ASP
25	CZ	349	VAL
25	CZ	359	VAL
25	CZ	367	ASN
25	CZ	395	VAL
25	CZ	401	THR
26	D0	11	ARG
26	D0	12	ASN
26	D0	14	ARG
26	D0	20	ARG
26	D0	27	GLU
26	D0	31	VAL
26	D0	41	ARG
26	D0	47	PRO
26	D0	56	ASP
26	D0	60	PHE
26	D0	62	LEU
26	D0	64	ASP
26	D0	71	ASP
26	D0	78	TYR
26	D0	84	LEU
27	D1	4	VAL
27	D1	7	ILE
27	D1	11	ARG
27	D1	13	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
27	D1	17	SER
27	D1	21	ARG
27	D1	26	ARG
27	D1	33	LYS
27	D1	37	ILE
27	D1	38	SER
27	D1	46	LEU
27	D1	57	GLU
27	D1	66	HIS
27	D1	73	LEU
27	D1	75	GLU
27	D1	80	LEU
27	D1	82	LEU
27	D1	83	GLU
27	D1	92	LYS
28	D2	3	LEU
28	D2	7	ARG
28	D2	9	GLN
28	D2	31	GLU
28	D2	38	GLN
28	D2	53	LEU
28	D2	56	GLN
28	D2	59	ARG
28	D2	60	LEU
28	D2	68	ARG
29	D3	28	LEU
29	D3	31	LEU
29	D3	35	ARG
29	D3	38	GLU
29	D3	40	THR
29	D3	46	ASN
29	D3	52	HIS
30	D4	5	ILE
30	D4	6	HIS
30	D4	8	LYS
30	D4	9	LEU
30	D4	10	VAL
30	D4	20	ASN
30	D4	22	ILE
30	D4	25	TYR
30	D4	27	THR
30	D4	32	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
30	D4	34	GLU
30	D4	35	VAL
30	D4	47	GLN
31	D5	3	LYS
31	D5	51	TYR
31	D5	56	LYS
31	D5	57	VAL
32	D6	10	LEU
32	D6	31	PRO
32	D6	36	LEU
32	D6	42	TRP
32	D6	43	CYS
32	D6	45	LYS
32	D6	49	HIS
32	D6	52	VAL
32	D6	53	LYS
33	D7	1	MET
33	D7	8	ASN
33	D7	14	LYS
33	D7	24	THR
33	D7	41	ARG
33	D7	44	PRO
33	D7	47	ARG
33	D7	48	LYS
34	D8	30	ARG
34	D8	34	TRP
34	D8	44	LYS
34	D8	47	LYS
34	D8	48	PHE
34	D8	56	GLU
34	D8	61	LEU
34	D8	64	TYR
35	D9	1	MET
35	D9	14	CYS
35	D9	28	GLU
35	D9	29	ASN
38	DC	3	HIS
38	DC	6	ARG
38	DC	12	GLU
38	DC	14	VAL
38	DC	17	ASN
38	DC	30	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	DC	36	LYS
38	DC	40	THR
38	DC	52	ARG
38	DC	55	ASP
38	DC	70	LYS
38	DC	71	GLN
38	DC	72	VAL
38	DC	85	GLU
38	DC	108	MET
38	DC	111	ASP
38	DC	113	VAL
38	DC	139	ASN
38	DC	168	THR
38	DC	183	GLU
38	DC	187	ASP
38	DC	199	HIS
38	DC	227	HIS
39	DD	10	THR
39	DD	14	ARG
39	DD	24	ILE
39	DD	26	LYS
39	DD	28	GLU
39	DD	33	LEU
39	DD	35	LYS
39	DD	37	LEU
39	DD	43	ARG
39	DD	44	ASN
39	DD	52	ARG
39	DD	59	LYS
39	DD	61	LEU
39	DD	63	ARG
39	DD	64	ILE
39	DD	65	ILE
39	DD	88	ARG
39	DD	92	ILE
39	DD	94	LEU
39	DD	95	LEU
39	DD	103	ARG
39	DD	106	ILE
39	DD	122	ASP
39	DD	131	LEU
39	DD	157	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	DD	166	GLN
39	DD	174	ILE
39	DD	183	ARG
39	DD	200	ASP
39	DD	212	SER
39	DD	221	VAL
39	DD	246	PRO
39	DD	252	TRP
39	DD	257	LEU
39	DD	260	ARG
39	DD	267	SER
39	DD	271	ILE
39	DD	273	ARG
39	DD	275	LYS
40	DE	35	GLN
40	DE	36	ARG
40	DE	42	ASP
40	DE	51	PHE
40	DE	55	ASN
40	DE	57	LYS
40	DE	61	ARG
40	DE	67	PHE
40	DE	69	LYS
40	DE	76	ARG
40	DE	79	ARG
40	DE	82	ARG
40	DE	95	ILE
40	DE	121	ASN
40	DE	127	ASP
40	DE	135	HIS
40	DE	169	ASN
40	DE	171	GLU
40	DE	181	LEU
40	DE	188	VAL
40	DE	192	ASN
40	DE	202	LYS
41	DF	17	ARG
41	DF	28	ILE
41	DF	44	ARG
41	DF	83	PHE
41	DF	88	VAL
41	DF	97	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	DF	122	LYS
41	DF	138	GLU
41	DF	139	PHE
41	DF	149	ASP
41	DF	160	ASN
41	DF	164	ARG
41	DF	169	ASN
42	DG	7	LEU
42	DG	12	TYR
42	DG	29	TRP
42	DG	33	ARG
42	DG	36	LYS
42	DG	45	GLU
42	DG	52	ILE
42	DG	60	LEU
42	DG	62	LEU
42	DG	66	GLN
42	DG	67	LYS
42	DG	71	THR
42	DG	72	ARG
42	DG	78	SER
42	DG	80	PHE
42	DG	82	LEU
42	DG	91	ARG
42	DG	97	ASP
42	DG	125	PHE
42	DG	139	LEU
42	DG	143	GLU
42	DG	146	TYR
42	DG	153	ARG
42	DG	164	GLU
42	DG	166	ASP
42	DG	176	LEU
43	DH	41	MET
43	DH	43	VAL
43	DH	53	GLU
43	DH	54	ARG
43	DH	65	HIS
43	DH	92	ILE
43	DH	104	GLU
43	DH	139	GLN
43	DH	143	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
43	DH	152	ARG
43	DH	153	LYS
43	DH	157	TYR
43	DH	163	TYR
46	DN	1	MET
46	DN	4	TYR
46	DN	19	GLU
46	DN	25	ARG
46	DN	26	LEU
46	DN	32	THR
46	DN	34	LEU
46	DN	45	ASN
46	DN	48	MET
46	DN	56	ASN
46	DN	63	THR
46	DN	65	LYS
46	DN	99	LEU
46	DN	127	ASP
46	DN	134	ARG
47	DO	4	PRO
47	DO	8	LEU
47	DO	10	VAL
47	DO	23	ARG
47	DO	32	TYR
47	DO	48	PRO
47	DO	92	GLU
47	DO	99	PHE
47	DO	104	ARG
47	DO	105	GLU
48	DP	16	ARG
48	DP	18	ARG
48	DP	19	VAL
48	DP	27	HIS
48	DP	33	ARG
48	DP	35	HIS
48	DP	40	SER
48	DP	45	LEU
48	DP	52	GLU
48	DP	55	ARG
48	DP	56	SER
48	DP	59	LEU
48	DP	61	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
48	DP	62	LEU
48	DP	68	GLN
48	DP	70	GLN
48	DP	79	ARG
48	DP	85	LEU
48	DP	91	PHE
48	DP	100	LEU
48	DP	108	LYS
48	DP	110	TYR
48	DP	130	PHE
49	DQ	1	MET
49	DQ	6	ARG
49	DQ	25	ASP
49	DQ	37	LEU
49	DQ	45	GLN
49	DQ	51	ARG
49	DQ	56	ARG
49	DQ	58	PHE
49	DQ	59	ARG
49	DQ	65	PHE
49	DQ	74	TYR
49	DQ	89	ASN
49	DQ	94	VAL
49	DQ	97	VAL
49	DQ	99	PRO
49	DQ	104	PHE
49	DQ	125	LEU
49	DQ	132	VAL
49	DQ	133	ARG
49	DQ	138	ASP
50	DR	2	ARG
50	DR	5	LYS
50	DR	8	ARG
50	DR	13	HIS
50	DR	18	LEU
50	DR	27	SER
50	DR	29	LEU
50	DR	36	THR
50	DR	37	THR
50	DR	44	LEU
50	DR	67	LEU
50	DR	71	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
50	DR	75	LEU
50	DR	77	ARG
50	DR	97	VAL
50	DR	99	LYS
50	DR	100	LEU
50	DR	113	LEU
51	DS	11	LYS
51	DS	12	PHE
51	DS	15	ARG
51	DS	18	ILE
51	DS	29	PHE
51	DS	36	TYR
51	DS	54	LEU
51	DS	57	LYS
51	DS	63	THR
51	DS	97	ARG
51	DS	106	ARG
52	DT	6	LEU
52	DT	24	PRO
52	DT	29	ARG
52	DT	32	TYR
52	DT	38	ASN
52	DT	39	ARG
52	DT	41	ARG
52	DT	48	ILE
52	DT	57	PHE
52	DT	58	ASN
52	DT	61	PHE
52	DT	65	LYS
52	DT	66	VAL
52	DT	72	VAL
52	DT	78	LEU
52	DT	82	LEU
52	DT	90	GLN
52	DT	102	ILE
52	DT	124	ASP
52	DT	128	GLU
53	DU	8	VAL
53	DU	18	LEU
53	DU	20	LEU
53	DU	56	ASP
53	DU	66	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
53	DU	74	LEU
53	DU	108	GLU
53	DU	114	LYS
54	DV	13	ARG
54	DV	14	VAL
54	DV	16	PRO
54	DV	18	LEU
54	DV	19	LYS
54	DV	20	LEU
54	DV	21	ARG
54	DV	35	LEU
54	DV	39	LEU
54	DV	50	PRO
54	DV	61	VAL
54	DV	71	LEU
54	DV	75	PHE
54	DV	89	GLN
54	DV	95	LEU
54	DV	99	ILE
55	DW	11	ARG
55	DW	17	VAL
55	DW	34	ASN
55	DW	36	LEU
55	DW	51	LEU
55	DW	52	GLU
55	DW	71	VAL
55	DW	77	ASP
55	DW	88	ARG
55	DW	92	ARG
55	DW	102	HIS
55	DW	103	ILE
56	DX	28	PHE
56	DX	39	ILE
56	DX	48	LYS
56	DX	57	LEU
56	DX	66	LEU
56	DX	68	ARG
56	DX	76	ARG
57	DY	2	ARG
57	DY	6	HIS
57	DY	7	VAL
57	DY	32	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
57	DY	49	VAL
57	DY	50	ARG
57	DY	53	PRO
57	DY	55	TYR
57	DY	56	PRO
57	DY	62	GLU
57	DY	67	LEU
57	DY	73	ARG
57	DY	75	ILE
57	DY	76	CYS
57	DY	77	PRO
57	DY	83	THR
58	DZ	6	LYS
58	DZ	11	GLU
58	DZ	14	LYS
58	DZ	18	LEU
58	DZ	31	ARG
58	DZ	59	LEU
58	DZ	61	LEU
58	DZ	66	SER
58	DZ	67	LEU
58	DZ	70	LEU
58	DZ	76	LEU
58	DZ	78	LYS
58	DZ	79	ARG
58	DZ	81	ARG
58	DZ	92	SER
58	DZ	97	GLU
58	DZ	103	ARG
58	DZ	119	GLU
58	DZ	123	ASP
58	DZ	127	LYS
58	DZ	150	LEU
58	DZ	163	LEU
58	DZ	166	SER
58	DZ	178	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (331) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	AB	40	HIS
2	AB	45	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	AB	104	ASN
2	AB	110	GLN
2	AB	135	GLN
2	AB	146	GLN
2	AB	204	ASN
2	AB	212	GLN
3	AC	3	ASN
3	AC	28	GLN
3	AC	31	HIS
3	AC	107	GLN
3	AC	118	GLN
3	AC	170	GLN
3	AC	176	HIS
3	AC	181	ASN
4	AD	43	HIS
4	AD	62	GLN
4	AD	119	GLN
4	AD	129	ASN
5	AE	20	GLN
5	AE	73	ASN
6	AF	27	GLN
6	AF	32	ASN
6	AF	57	GLN
6	AF	84	ASN
6	AF	100	ASN
7	AG	11	GLN
7	AG	13	GLN
7	AG	68	ASN
7	AG	106	GLN
7	AG	148	ASN
8	AH	15	ASN
8	AH	82	HIS
9	AI	3	GLN
9	AI	31	GLN
9	AI	117	HIS
10	AJ	62	HIS
10	AJ	78	ASN
11	AK	38	ASN
11	AK	93	GLN
11	AK	117	ASN
12	AL	8	ASN
12	AL	75	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
12	AL	78	GLN
13	AM	12	ASN
13	AM	77	ASN
13	AM	101	GLN
13	AM	106	ASN
14	AN	52	GLN
15	AO	37	ASN
15	AO	53	HIS
15	AO	62	GLN
16	AP	76	GLN
17	AQ	16	GLN
17	AQ	94	ASN
20	AT	26	ASN
20	AT	42	GLN
20	AT	45	GLN
20	AT	75	ASN
25	AZ	39	ASN
25	AZ	67	HIS
25	AZ	79	HIS
25	AZ	85	HIS
25	AZ	115	GLN
25	AZ	119	HIS
25	AZ	185	ASN
25	AZ	331	HIS
25	AZ	341	GLN
25	AZ	354	GLN
25	AZ	367	ASN
26	B0	50	ASN
26	B0	70	GLN
27	B1	45	ASN
27	B1	66	HIS
28	B2	9	GLN
28	B2	43	GLN
29	B3	19	GLN
29	B3	46	ASN
30	B4	20	ASN
30	B4	40	HIS
30	B4	46	GLN
30	B4	47	GLN
31	B5	43	HIS
32	B6	20	ASN
32	B6	32	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	B7	8	ASN
34	B8	35	GLN
35	B9	29	ASN
35	B9	36	GLN
38	BC	57	ASN
38	BC	172	HIS
39	BD	96	HIS
39	BD	115	GLN
39	BD	116	GLN
39	BD	126	GLN
39	BD	166	GLN
39	BD	186	HIS
39	BD	201	HIS
40	BE	48	GLN
40	BE	54	GLN
40	BE	55	ASN
40	BE	121	ASN
40	BE	129	HIS
40	BE	132	HIS
40	BE	143	ASN
40	BE	169	ASN
40	BE	192	ASN
41	BF	8	GLN
41	BF	29	ASN
41	BF	31	HIS
41	BF	40	GLN
41	BF	69	HIS
41	BF	75	HIS
41	BF	133	ASN
41	BF	160	ASN
41	BF	169	ASN
41	BF	204	ASN
42	BG	27	ASN
42	BG	58	GLN
42	BG	66	GLN
42	BG	123	ASN
43	BH	147	ASN
46	BN	45	ASN
46	BN	56	ASN
46	BN	94	HIS
46	BN	130	HIS
46	BN	131	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
47	BO	5	GLN
48	BP	38	GLN
48	BP	81	GLN
48	BP	84	ASN
48	BP	128	HIS
49	BQ	12	GLN
49	BQ	45	GLN
50	BR	3	HIS
50	BR	13	HIS
50	BR	23	ASN
50	BR	61	HIS
51	BS	38	GLN
52	BT	38	ASN
52	BT	55	ASN
52	BT	58	ASN
52	BT	123	GLN
53	BU	49	HIS
53	BU	66	ASN
53	BU	81	HIS
53	BU	94	ASN
53	BU	117	GLN
54	BV	11	GLN
54	BV	80	GLN
55	BW	34	ASN
55	BW	40	ASN
55	BW	61	ASN
56	BX	41	ASN
56	BX	55	ASN
56	BX	82	GLN
56	BX	87	GLN
57	BY	6	HIS
58	BZ	30	ASN
58	BZ	54	HIS
58	BZ	85	HIS
58	BZ	118	GLN
2	CB	40	HIS
2	CB	45	GLN
2	CB	104	ASN
2	CB	110	GLN
2	CB	135	GLN
2	CB	146	GLN
2	CB	204	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	CB	212	GLN
3	CC	3	ASN
3	CC	28	GLN
3	CC	31	HIS
3	CC	107	GLN
3	CC	118	GLN
3	CC	170	GLN
3	CC	176	HIS
3	CC	181	ASN
4	CD	43	HIS
4	CD	62	GLN
4	CD	119	GLN
4	CD	129	ASN
5	CE	20	GLN
5	CE	65	ASN
5	CE	73	ASN
6	CF	27	GLN
6	CF	32	ASN
6	CF	57	GLN
6	CF	84	ASN
6	CF	100	ASN
7	CG	11	GLN
7	CG	13	GLN
7	CG	68	ASN
7	CG	106	GLN
7	CG	148	ASN
8	CH	15	ASN
8	CH	82	HIS
9	CI	3	GLN
9	CI	31	GLN
9	CI	117	HIS
10	CJ	62	HIS
10	CJ	78	ASN
11	CK	38	ASN
11	CK	93	GLN
11	CK	117	ASN
12	CL	8	ASN
12	CL	75	HIS
12	CL	78	GLN
13	CM	12	ASN
13	CM	77	ASN
13	CM	101	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
14	CN	52	GLN
15	CO	37	ASN
15	CO	62	GLN
16	CP	76	GLN
17	CQ	16	GLN
17	CQ	94	ASN
18	CR	36	ASN
19	CS	14	HIS
20	CT	26	ASN
20	CT	42	GLN
20	CT	45	GLN
20	CT	75	ASN
25	CZ	39	ASN
25	CZ	67	HIS
25	CZ	79	HIS
25	CZ	85	HIS
25	CZ	98	GLN
25	CZ	115	GLN
25	CZ	119	HIS
25	CZ	125	GLN
25	CZ	185	ASN
25	CZ	285	ASN
25	CZ	331	HIS
25	CZ	341	GLN
25	CZ	367	ASN
26	D0	50	ASN
26	D0	70	GLN
27	D1	16	ASN
27	D1	42	GLN
27	D1	47	GLN
28	D2	43	GLN
28	D2	47	ASN
28	D2	71	ASN
29	D3	19	GLN
29	D3	46	ASN
30	D4	20	ASN
30	D4	40	HIS
30	D4	47	GLN
31	D5	43	HIS
32	D6	20	ASN
32	D6	32	ASN
33	D7	8	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	D8	35	GLN
35	D9	29	ASN
35	D9	32	HIS
35	D9	36	GLN
38	DC	57	ASN
38	DC	172	HIS
39	DD	96	HIS
39	DD	115	GLN
39	DD	116	GLN
39	DD	126	GLN
39	DD	166	GLN
39	DD	186	HIS
39	DD	201	HIS
40	DE	48	GLN
40	DE	54	GLN
40	DE	55	ASN
40	DE	121	ASN
40	DE	129	HIS
40	DE	132	HIS
40	DE	143	ASN
40	DE	169	ASN
40	DE	192	ASN
41	DF	8	GLN
41	DF	29	ASN
41	DF	31	HIS
41	DF	40	GLN
41	DF	69	HIS
41	DF	75	HIS
41	DF	133	ASN
41	DF	160	ASN
41	DF	169	ASN
41	DF	204	ASN
42	DG	40	ASN
42	DG	123	ASN
42	DG	132	ASN
43	DH	147	ASN
46	DN	45	ASN
46	DN	56	ASN
46	DN	69	GLN
46	DN	130	HIS
46	DN	131	GLN
47	DO	5	GLN

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Mol	Chain	Res	Type
48	DP	38	GLN
48	DP	81	GLN
48	DP	84	ASN
48	DP	128	HIS
49	DQ	12	GLN
49	DQ	45	GLN
49	DQ	141	GLN
50	DR	3	HIS
50	DR	13	HIS
50	DR	23	ASN
50	DR	61	HIS
51	DS	38	GLN
52	DT	38	ASN
52	DT	55	ASN
52	DT	58	ASN
52	DT	79	HIS
52	DT	123	GLN
53	DU	49	HIS
53	DU	66	ASN
53	DU	81	HIS
53	DU	94	ASN
53	DU	117	GLN
54	DV	11	GLN
55	DW	34	ASN
55	DW	40	ASN
55	DW	61	ASN
56	DX	41	ASN
56	DX	55	ASN
56	DX	87	GLN
57	DY	6	HIS
58	DZ	54	HIS
58	DZ	55	HIS
58	DZ	65	GLN
58	DZ	85	HIS
58	DZ	118	GLN

### 5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	288 (19%)	59 (3%)
1	CA	1503/1522 (98%)	284 (18%)	59 (3%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
22	AV	75/76 (98%)	20 (26%)	0
22	AW	75/76 (98%)	21 (28%)	2 (2%)
22	CV	75/76 (98%)	20 (26%)	0
22	CW	75/76 (98%)	21 (28%)	2 (2%)
23	AX	12/27 (44%)	4 (33%)	0
23	CX	12/27 (44%)	4 (33%)	0
24	AY	75/77 (97%)	29 (38%)	0
24	CY	75/77 (97%)	28 (37%)	0
36	BA	2900/2915 (99%)	647 (22%)	55 (1%)
36	DA	2900/2915 (99%)	653 (22%)	55 (1%)
37	BB	118/122 (96%)	29 (24%)	1 (0%)
37	DB	118/122 (96%)	29 (24%)	1 (0%)
All	All	9516/9630 (98%)	2077 (21%)	234 (2%)

All (2077) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	8	A
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	51	A
1	AA	55	A
1	AA	61	G
1	AA	65	U
1	AA	66	G
1	AA	79	G
1	AA	80	G
1	AA	81	U
1	AA	82	U
1	AA	84	U
1	AA	89	C
1	AA	90	U
1	AA	101	A
1	AA	109	A
1	AA	110	C
1	AA	116	A
1	AA	120	A
1	AA	121	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	122	G
1	AA	129(A)	G
1	AA	131	C
1	AA	137	C
1	AA	144	G
1	AA	151	A
1	AA	174	C
1	AA	189(G)	G
1	AA	189(H)	G
1	AA	189(I)	G
1	AA	195	A
1	AA	197	A
1	AA	198	G
1	AA	199	G
1	AA	201	C
1	AA	203	U
1	AA	220	G
1	AA	244	U
1	AA	246	A
1	AA	247	G
1	AA	251	G
1	AA	267	C
1	AA	272	C
1	AA	275	G
1	AA	279	A
1	AA	281	G
1	AA	289	G
1	AA	328	C
1	AA	330	C
1	AA	332	G
1	AA	345	C
1	AA	346	G
1	AA	347	G
1	AA	348	G
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U
1	AA	368	U
1	AA	370	C
1	AA	372	C
1	AA	373	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	389	A
1	AA	397	A
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	423	G
1	AA	424	G
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	439	A
1	AA	452	A
1	AA	453	A
1	AA	454	C
1	AA	484	G
1	AA	485	G
1	AA	495	A
1	AA	496	A
1	AA	498	U
1	AA	499	A
1	AA	508	C
1	AA	509	A
1	AA	511	C
1	AA	512	U
1	AA	518	C
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	548	G
1	AA	561	U
1	AA	562	C
1	AA	563	A
1	AA	564	C
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G
1	AA	607	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	630	G
1	AA	631	G
1	AA	632	A
1	AA	633	G
1	AA	642	A
1	AA	653	A
1	AA	665	A
1	AA	688	G
1	AA	701	C
1	AA	702	A
1	AA	721	G
1	AA	722	A
1	AA	723	U
1	AA	734	G
1	AA	748	C
1	AA	749	C
1	AA	755	G
1	AA	771	G
1	AA	777	A
1	AA	793	U
1	AA	794	A
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	828	A
1	AA	839	U
1	AA	841	U
1	AA	848	C
1	AA	858	G
1	AA	859	A
1	AA	864	A
1	AA	885	G
1	AA	889	A
1	AA	890	G
1	AA	902	G
1	AA	912	C
1	AA	914	A
1	AA	916	G
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	960	U
1	AA	961	U
1	AA	962	C
1	AA	966	G
1	AA	967	C
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A
1	AA	980	C
1	AA	981	U
1	AA	982	U
1	AA	983	A
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	996	A
1	AA	1001(A)	G
1	AA	1004	A
1	AA	1026	G
1	AA	1027	C
1	AA	1050	G
1	AA	1051	C
1	AA	1054	C
1	AA	1064	G
1	AA	1066	C
1	AA	1085	U
1	AA	1086	U
1	AA	1087	G
1	AA	1094	G
1	AA	1101	A
1	AA	1102	A
1	AA	1117	G
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1131	G
1	AA	1136	U
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1141	C
1	AA	1146	A
1	AA	1154	G
1	AA	1158	C
1	AA	1159	U
1	AA	1184	G
1	AA	1196	U
1	AA	1199	U
1	AA	1200	C
1	AA	1201	A
1	AA	1202	G
1	AA	1212	U
1	AA	1213	A
1	AA	1214	C
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1238	A
1	AA	1240	U
1	AA	1241	G
1	AA	1249	C
1	AA	1255	G
1	AA	1256	A
1	AA	1257	U
1	AA	1258	G
1	AA	1280	A
1	AA	1281	U
1	AA	1284	C
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1299	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1303	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1305	G
1	AA	1306	A
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1335	C
1	AA	1337	G
1	AA	1338	G
1	AA	1347	G
1	AA	1348	U
1	AA	1349	A
1	AA	1359	C
1	AA	1363(A)	A
1	AA	1364	U
1	AA	1365	G
1	AA	1373	G
1	AA	1381	U
1	AA	1397	C
1	AA	1398	A
1	AA	1399	C
1	AA	1400	C
1	AA	1406	U
1	AA	1419	G
1	AA	1420	C
1	AA	1422	G
1	AA	1428	A
1	AA	1442	G
1	AA	1442(A)	G
1	AA	1442(B)	A
1	AA	1447	A
1	AA	1456	G
1	AA	1469	G
1	AA	1470	G
1	AA	1481	U
1	AA	1483	A
1	AA	1485	U
1	AA	1492	A
1	AA	1497	G
1	AA	1499	A
1	AA	1503	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1508	G
1	AA	1517	G
1	AA	1519	A
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
1	AA	1531	A
22	AV	7	A
22	AV	8	U
22	AV	18	G
22	AV	20	U
22	AV	22	G
22	AV	41	C
22	AV	42	C
22	AV	46	G
22	AV	47	U
22	AV	48	C
22	AV	49	C
22	AV	50	U
22	AV	52	G
22	AV	59	U
22	AV	60	U
22	AV	61	C
22	AV	62	C
22	AV	69	G
22	AV	75	C
22	AV	76	A
22	AW	4	C
22	AW	8	U
22	AW	9	A
22	AW	10	G
22	AW	16	U
22	AW	17	C
22	AW	18	G
22	AW	19	G
22	AW	21	A
22	AW	39	U
22	AW	44	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
22	AW	45	U
22	AW	47	U
22	AW	49	C
22	AW	50	U
22	AW	59	U
22	AW	60	U
22	AW	61	C
22	AW	62	C
22	AW	70	G
22	AW	74	C
23	AX	16	A
23	AX	22	A
23	AX	26	A
23	AX	27	A
24	AY	2	C
24	AY	3	U
24	AY	9	A
24	AY	10	G
24	AY	12	U
24	AY	14	A
24	AY	16	H2U
24	AY	17	H2U
24	AY	18	G
24	AY	19	G
24	AY	20	H2U
24	AY	21	A
24	AY	22	G
24	AY	34	G
24	AY	41	G
24	AY	42	U
24	AY	43	G
24	AY	45	G
24	AY	48	C
24	AY	55	PSU
24	AY	56	C
24	AY	57	G
24	AY	59	A
24	AY	61	C
24	AY	62	U
24	AY	72	C
24	AY	73	A
24	AY	75	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	AY	76	A
36	BA	10	G
36	BA	15	G
36	BA	27	G
36	BA	32	C
36	BA	34	C
36	BA	45	C
36	BA	49	A
36	BA	50	U
36	BA	61	G
36	BA	63	U
36	BA	69	C
36	BA	71	A
36	BA	72	U
36	BA	74	A
36	BA	75	G
36	BA	76	C
36	BA	82	G
36	BA	84	A
36	BA	85	G
36	BA	88	G
36	BA	90	U
36	BA	92	A
36	BA	94	C
36	BA	95	G
36	BA	96	G
36	BA	100	G
36	BA	102	G
36	BA	112	U
36	BA	118	A
36	BA	119	A
36	BA	120	U
36	BA	129	C
36	BA	139(A)	G
36	BA	141	A
36	BA	146	G
36	BA	153	C
36	BA	155	U
36	BA	174	C
36	BA	181	A
36	BA	182	A
36	BA	196	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	197	A
36	BA	198	C
36	BA	199	A
36	BA	204	A
36	BA	205	G
36	BA	215	G
36	BA	221	A
36	BA	222	A
36	BA	229	A
36	BA	230	U
36	BA	233	A
36	BA	244	A
36	BA	245	G
36	BA	248	G
36	BA	266	G
36	BA	267	C
36	BA	271(K)	U
36	BA	271(L)	U
36	BA	271(M)	G
36	BA	271(N)	U
36	BA	271(O)	C
36	BA	271(P)	C
36	BA	271(R)	G
36	BA	272(A)	U
36	BA	272(B)	G
36	BA	272(I)	U
36	BA	274	G
36	BA	276	A
36	BA	284	U
36	BA	288	C
36	BA	299	A
36	BA	310	A
36	BA	312	G
36	BA	323	G
36	BA	329	G
36	BA	330	A
36	BA	331	A
36	BA	332	A
36	BA	333	G
36	BA	338	G
36	BA	343	C
36	BA	344	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	349	G
36	BA	352	G
36	BA	353	G
36	BA	356	G
36	BA	358	U
36	BA	362	U
36	BA	363	G
36	BA	363(F)	A
36	BA	364	C
36	BA	372	G
36	BA	386	G
36	BA	387	U
36	BA	388	G
36	BA	394	A
36	BA	396	G
36	BA	405	U
36	BA	406	G
36	BA	411	G
36	BA	412	A
36	BA	418	G
36	BA	428	A
36	BA	435	C
36	BA	444	C
36	BA	448	U
36	BA	451	C
36	BA	456	C
36	BA	457	A
36	BA	467	G
36	BA	470	A
36	BA	472	A
36	BA	473	G
36	BA	480	A
36	BA	481	G
36	BA	482	A
36	BA	483	A
36	BA	485	C
36	BA	494	G
36	BA	505	A
36	BA	508	G
36	BA	509	C
36	BA	512	G
36	BA	525	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	527	C
36	BA	528	A
36	BA	530	G
36	BA	531	C
36	BA	532	A
36	BA	533	G
36	BA	537	C
36	BA	556	G
36	BA	561	G
36	BA	562	U
36	BA	563	G
36	BA	572	A
36	BA	573	G
36	BA	575	A
36	BA	586	A
36	BA	588	U
36	BA	592	G
36	BA	599	G
36	BA	603	A
36	BA	604	G
36	BA	607	U
36	BA	613	G
36	BA	614(B)	G
36	BA	614(C)	A
36	BA	615	G
36	BA	620	G
36	BA	627	A
36	BA	629	G
36	BA	637	A
36	BA	645	C
36	BA	646	A
36	BA	651	G
36	BA	653	A
36	BA	654	A
36	BA	654(J)	A
36	BA	654(K)	C
36	BA	656	G
36	BA	668	G
36	BA	669	G
36	BA	670	A
36	BA	673	C
36	BA	686	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	695	G
36	BA	708	C
36	BA	717	G
36	BA	719	C
36	BA	722	A
36	BA	730	C
36	BA	748	G
36	BA	753	C
36	BA	765	G
36	BA	776	G
36	BA	782	A
36	BA	784	A
36	BA	785	G
36	BA	790	C
36	BA	791	C
36	BA	792	G
36	BA	805	G
36	BA	812	C
36	BA	819	A
36	BA	827	U
36	BA	828	U
36	BA	830	G
36	BA	846	C
36	BA	848	G
36	BA	857	C
36	BA	859	G
36	BA	865	C
36	BA	866	A
36	BA	878	A
36	BA	889	C
36	BA	890	A
36	BA	896	A
36	BA	897	C
36	BA	904	C
36	BA	910	A
36	BA	917	A
36	BA	926	A
36	BA	932	G
36	BA	933	A
36	BA	935	C
36	BA	941	A
36	BA	945	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	946	G
36	BA	958	U
36	BA	959	A
36	BA	961	C
36	BA	964	C
36	BA	965	C
36	BA	974	G
36	BA	975	C
36	BA	980	A
36	BA	983	A
36	BA	985	C
36	BA	991	C
36	BA	996	A
36	BA	1005	C
36	BA	1011	G
36	BA	1012	U
36	BA	1013	C
36	BA	1022	G
36	BA	1025	G
36	BA	1026	U
36	BA	1027	A
36	BA	1033	U
36	BA	1039	G
36	BA	1045	A
36	BA	1047	G
36	BA	1048	A
36	BA	1051	G
36	BA	1053	C
36	BA	1059	G
36	BA	1061	U
36	BA	1062	G
36	BA	1065	U
36	BA	1067	A
36	BA	1068	G
36	BA	1069	A
36	BA	1070	A
36	BA	1071	G
36	BA	1072	C
36	BA	1073	A
36	BA	1079	C
36	BA	1087	G
36	BA	1088	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	1091	G
36	BA	1098	A
36	BA	1103	A
36	BA	1107	G
36	BA	1108	U
36	BA	1111	A
36	BA	1112	G
36	BA	1114	G
36	BA	1129	A
36	BA	1130	U
36	BA	1135	C
36	BA	1136	G
36	BA	1142	U
36	BA	1143	A
36	BA	1152	C
36	BA	1154	G
36	BA	1155	A
36	BA	1157	G
36	BA	1167	U
36	BA	1170	G
36	BA	1171	G
36	BA	1174	A
36	BA	1175	U
36	BA	1176	G
36	BA	1177	A
36	BA	1178	C
36	BA	1194	A
36	BA	1195	G
36	BA	1204	A
36	BA	1205	U
36	BA	1210	A
36	BA	1211	U
36	BA	1212	G
36	BA	1218	C
36	BA	1221	C
36	BA	1223	G
36	BA	1227	G
36	BA	1238	G
36	BA	1244	G
36	BA	1250	G
36	BA	1253	A
36	BA	1255	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	1256	G
36	BA	1265	A
36	BA	1271	G
36	BA	1272	A
36	BA	1273	U
36	BA	1289	C
36	BA	1292	U
36	BA	1300	U
36	BA	1301	A
36	BA	1302	A
36	BA	1314	C
36	BA	1319	G
36	BA	1321	A
36	BA	1332	G
36	BA	1338	G
36	BA	1343	G
36	BA	1349	A
36	BA	1359	A
36	BA	1364	G
36	BA	1365	A
36	BA	1378	A
36	BA	1379	A
36	BA	1380	G
36	BA	1384	A
36	BA	1385	G
36	BA	1386	C
36	BA	1396	U
36	BA	1398	C
36	BA	1404	C
36	BA	1407	C
36	BA	1416	G
36	BA	1419	A
36	BA	1420	U
36	BA	1421	G
36	BA	1427	A
36	BA	1428	C
36	BA	1433	U
36	BA	1437	C
36	BA	1445	A
36	BA	1449	A
36	BA	1453	U
36	BA	1455	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	1459	G
36	BA	1460	A
36	BA	1461	G
36	BA	1467	C
36	BA	1471	A
36	BA	1475	G
36	BA	1478	G
36	BA	1482	G
36	BA	1485	G
36	BA	1488	G
36	BA	1490	A
36	BA	1493	C
36	BA	1494	A
36	BA	1495	A
36	BA	1497	U
36	BA	1499	C
36	BA	1502	C
36	BA	1505	C
36	BA	1509	C
36	BA	1509(A)	A
36	BA	1512	U
36	BA	1517	G
36	BA	1528(A)	A
36	BA	1541	G
36	BA	1542	A
36	BA	1544	A
36	BA	1554	A
36	BA	1558	A
36	BA	1559	G
36	BA	1569	A
36	BA	1575	C
36	BA	1578	U
36	BA	1579	A
36	BA	1580	A
36	BA	1584	C
36	BA	1586	A
36	BA	1587	A
36	BA	1591	G
36	BA	1598	C
36	BA	1603	A
36	BA	1608	A
36	BA	1614	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	1615	C
36	BA	1616	A
36	BA	1617	C
36	BA	1618	A
36	BA	1634	A
36	BA	1640	C
36	BA	1648	C
36	BA	1653	G
36	BA	1654	A
36	BA	1666	G
36	BA	1674	G
36	BA	1688	U
36	BA	1694	C
36	BA	1695	G
36	BA	1698	A
36	BA	1699	G
36	BA	1700	A
36	BA	1703	G
36	BA	1717	G
36	BA	1718	G
36	BA	1721	G
36	BA	1722	A
36	BA	1739	U
36	BA	1740	G
36	BA	1742	G
36	BA	1748	G
36	BA	1756	G
36	BA	1763	G
36	BA	1764	G
36	BA	1773	A
36	BA	1780	A
36	BA	1781	C
36	BA	1782	C
36	BA	1791	A
36	BA	1799	G
36	BA	1800	C
36	BA	1801	G
36	BA	1816	G
36	BA	1817	G
36	BA	1820	U
36	BA	1821	A
36	BA	1833	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	1835	G
36	BA	1838	C
36	BA	1839	G
36	BA	1847	A
36	BA	1848	A
36	BA	1858	G
36	BA	1865	G
36	BA	1866	C
36	BA	1878	G
36	BA	1881	C
36	BA	1882	C
36	BA	1885	A
36	BA	1888	G
36	BA	1900	A
36	BA	1902	C
36	BA	1903	G
36	BA	1906	G
36	BA	1912	A
36	BA	1913	A
36	BA	1929	G
36	BA	1930	G
36	BA	1936	A
36	BA	1938	A
36	BA	1944	U
36	BA	1948	G
36	BA	1955	U
36	BA	1956	U
36	BA	1962	C
36	BA	1963	U
36	BA	1967	C
36	BA	1969	A
36	BA	1970	A
36	BA	1971	A
36	BA	1972	A
36	BA	1987	G
36	BA	1992	G
36	BA	1993	U
36	BA	1997	G
36	BA	2023	G
36	BA	2029	G
36	BA	2031	A
36	BA	2034	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	2036	C
36	BA	2041	U
36	BA	2043	C
36	BA	2055	C
36	BA	2056	G
36	BA	2060	A
36	BA	2061	G
36	BA	2062	A
36	BA	2069	G
36	BA	2093	G
36	BA	2096	U
36	BA	2100	G
36	BA	2102	U
36	BA	2103	C
36	BA	2104	G
36	BA	2107	C
36	BA	2108	C
36	BA	2109	U
36	BA	2111	C
36	BA	2116	G
36	BA	2117	A
36	BA	2118	U
36	BA	2127	G
36	BA	2128	C
36	BA	2129	C
36	BA	2131	G
36	BA	2132	U
36	BA	2133	G
36	BA	2145	C
36	BA	2146	C
36	BA	2147	G
36	BA	2156	G
36	BA	2160	G
36	BA	2165	G
36	BA	2172	U
36	BA	2173	A
36	BA	2174	C
36	BA	2179	C
36	BA	2180	U
36	BA	2183	C
36	BA	2185	C
36	BA	2186	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	2187	G
36	BA	2189	U
36	BA	2190	G
36	BA	2192	G
36	BA	2193	G
36	BA	2198	A
36	BA	2200	C
36	BA	2203	U
36	BA	2207	G
36	BA	2208	A
36	BA	2218	U
36	BA	2219	G
36	BA	2225	A
36	BA	2238	G
36	BA	2269	A
36	BA	2275	C
36	BA	2283	C
36	BA	2287	A
36	BA	2305	A
36	BA	2307	G
36	BA	2308	G
36	BA	2311	A
36	BA	2312	U
36	BA	2313	C
36	BA	2319	G
36	BA	2320	A
36	BA	2327	A
36	BA	2336	A
36	BA	2342	C
36	BA	2343	C
36	BA	2345	G
36	BA	2347	C
36	BA	2350	C
36	BA	2361	A
36	BA	2383	G
36	BA	2385	C
36	BA	2390	U
36	BA	2392	A
36	BA	2399	G
36	BA	2402	C
36	BA	2405	G
36	BA	2406	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	2423	U
36	BA	2424	C
36	BA	2425	A
36	BA	2427	C
36	BA	2429	G
36	BA	2430	A
36	BA	2434	A
36	BA	2439	A
36	BA	2441	C
36	BA	2448	A
36	BA	2465	C
36	BA	2469	A
36	BA	2470	G
36	BA	2476	A
36	BA	2477	C
36	BA	2478	A
36	BA	2482	G
36	BA	2494	G
36	BA	2497	A
36	BA	2505	G
36	BA	2509	G
36	BA	2518	A
36	BA	2521	C
36	BA	2524	G
36	BA	2529	G
36	BA	2543	G
36	BA	2554	U
36	BA	2566	A
36	BA	2567	G
36	BA	2572	A
36	BA	2573	C
36	BA	2578	G
36	BA	2582	G
36	BA	2586	C
36	BA	2593	U
36	BA	2602	A
36	BA	2609	U
36	BA	2610	C
36	BA	2611	U
36	BA	2612	C
36	BA	2615	U
36	BA	2630	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	2639	A
36	BA	2641	G
36	BA	2646	C
36	BA	2653	U
36	BA	2654	A
36	BA	2655	G
36	BA	2657	A
36	BA	2670	A
36	BA	2673	G
36	BA	2675	A
36	BA	2682	U
36	BA	2690	C
36	BA	2691	C
36	BA	2703	C
36	BA	2712	U
36	BA	2712(A)	A
36	BA	2713	A
36	BA	2720	U
36	BA	2726	U
36	BA	2732	G
36	BA	2733	A
36	BA	2750	A
36	BA	2751	G
36	BA	2752	C
36	BA	2757	A
36	BA	2759	G
36	BA	2761	G
36	BA	2762	G
36	BA	2763	G
36	BA	2765	A
36	BA	2766	G
36	BA	2777	G
36	BA	2778	A
36	BA	2779	U
36	BA	2780	G
36	BA	2781	A
36	BA	2787	C
36	BA	2789	C
36	BA	2790	A
36	BA	2791	C
36	BA	2794	C
36	BA	2801	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	2801(A)	A
36	BA	2802	G
36	BA	2803	C
36	BA	2808	U
36	BA	2811	G
36	BA	2813	A
36	BA	2817	G
36	BA	2818	G
36	BA	2820	A
36	BA	2821	A
36	BA	2833	G
36	BA	2834	G
36	BA	2835	A
36	BA	2849	U
36	BA	2872	G
36	BA	2879	C
36	BA	2883	A
36	BA	2893	G
37	BB	2	C
37	BB	8	U
37	BB	12	C
37	BB	13	A
37	BB	15	A
37	BB	16	G
37	BB	17	C
37	BB	19	G
37	BB	21	G
37	BB	25	A
37	BB	26	A
37	BB	32	C
37	BB	35	U
37	BB	39	A
37	BB	40	U
37	BB	41	U
37	BB	42	C
37	BB	43	C
37	BB	45	A
37	BB	53	A
37	BB	57	A
37	BB	68	C
37	BB	73	A
37	BB	75	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
37	BB	81	G
37	BB	88	C
37	BB	101	G
37	BB	110	G
37	BB	113	G
1	CA	8	A
1	CA	9	G
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	55	A
1	CA	61	G
1	CA	65	U
1	CA	66	G
1	CA	79	G
1	CA	80	G
1	CA	81	U
1	CA	82	U
1	CA	84	U
1	CA	89	C
1	CA	90	U
1	CA	101	A
1	CA	109	A
1	CA	110	C
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	122	G
1	CA	129(A)	G
1	CA	131	C
1	CA	137	C
1	CA	144	G
1	CA	151	A
1	CA	174	C
1	CA	189(G)	G
1	CA	189(H)	G
1	CA	189(I)	G
1	CA	195	A
1	CA	197	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	198	G
1	CA	199	G
1	CA	201	C
1	CA	203	U
1	CA	220	G
1	CA	244	U
1	CA	246	A
1	CA	247	G
1	CA	251	G
1	CA	267	C
1	CA	272	C
1	CA	275	G
1	CA	279	A
1	CA	281	G
1	CA	289	G
1	CA	328	C
1	CA	330	C
1	CA	332	G
1	CA	345	C
1	CA	346	G
1	CA	347	G
1	CA	348	G
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	367	U
1	CA	368	U
1	CA	370	C
1	CA	372	C
1	CA	373	A
1	CA	389	A
1	CA	397	A
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	422	C
1	CA	423	G
1	CA	424	G
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	439	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	452	A
1	CA	453	A
1	CA	454	C
1	CA	484	G
1	CA	485	G
1	CA	495	A
1	CA	496	A
1	CA	498	U
1	CA	499	A
1	CA	508	C
1	CA	509	A
1	CA	511	C
1	CA	512	U
1	CA	518	C
1	CA	527	G
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	548	G
1	CA	561	U
1	CA	562	C
1	CA	563	A
1	CA	564	C
1	CA	571	U
1	CA	572	A
1	CA	573	A
1	CA	575	G
1	CA	576	G
1	CA	577	G
1	CA	607	A
1	CA	630	G
1	CA	631	G
1	CA	632	A
1	CA	633	G
1	CA	642	A
1	CA	653	A
1	CA	665	A
1	CA	688	G
1	CA	701	C
1	CA	702	A
1	CA	721	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	722	A
1	CA	723	U
1	CA	734	G
1	CA	748	C
1	CA	749	C
1	CA	755	G
1	CA	771	G
1	CA	777	A
1	CA	790	A
1	CA	793	U
1	CA	794	A
1	CA	816	A
1	CA	817	C
1	CA	818	G
1	CA	828	A
1	CA	839	U
1	CA	841	U
1	CA	848	C
1	CA	858	G
1	CA	859	A
1	CA	864	A
1	CA	885	G
1	CA	889	A
1	CA	890	G
1	CA	902	G
1	CA	912	C
1	CA	914	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	960	U
1	CA	961	U
1	CA	962	C
1	CA	966	G
1	CA	967	C
1	CA	968	A
1	CA	969	A
1	CA	971	G
1	CA	974	A
1	CA	975	A
1	CA	976	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	977	A
1	CA	978	A
1	CA	980	C
1	CA	981	U
1	CA	982	U
1	CA	983	A
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	996	A
1	CA	1001(A)	G
1	CA	1004	A
1	CA	1026	G
1	CA	1027	C
1	CA	1050	G
1	CA	1051	C
1	CA	1054	C
1	CA	1064	G
1	CA	1066	C
1	CA	1085	U
1	CA	1086	U
1	CA	1087	G
1	CA	1094	G
1	CA	1101	A
1	CA	1102	A
1	CA	1117	G
1	CA	1124	G
1	CA	1125	U
1	CA	1126	U
1	CA	1129	C
1	CA	1130	A
1	CA	1131	G
1	CA	1136	U
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1140	C
1	CA	1141	C
1	CA	1146	A
1	CA	1154	G
1	CA	1158	C
1	CA	1159	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	1184	G
1	CA	1190	G
1	CA	1196	U
1	CA	1199	U
1	CA	1200	C
1	CA	1201	A
1	CA	1202	G
1	CA	1212	U
1	CA	1213	A
1	CA	1214	C
1	CA	1225	A
1	CA	1226	C
1	CA	1227	A
1	CA	1238	A
1	CA	1240	U
1	CA	1241	G
1	CA	1249	C
1	CA	1255	G
1	CA	1256	A
1	CA	1257	U
1	CA	1258	G
1	CA	1280	A
1	CA	1281	U
1	CA	1284	C
1	CA	1285	A
1	CA	1286	A
1	CA	1287	A
1	CA	1299	A
1	CA	1300	G
1	CA	1301	U
1	CA	1302	U
1	CA	1303	C
1	CA	1305	G
1	CA	1306	A
1	CA	1317	C
1	CA	1320	C
1	CA	1322	C
1	CA	1323	G
1	CA	1331	G
1	CA	1335	C
1	CA	1337	G
1	CA	1338	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	1347	G
1	CA	1348	U
1	CA	1349	A
1	CA	1359	C
1	CA	1363(A)	A
1	CA	1364	U
1	CA	1365	G
1	CA	1373	G
1	CA	1381	U
1	CA	1397	C
1	CA	1398	A
1	CA	1400	C
1	CA	1419	G
1	CA	1420	C
1	CA	1442	G
1	CA	1442(A)	G
1	CA	1442(B)	A
1	CA	1447	A
1	CA	1452	C
1	CA	1456	G
1	CA	1492	A
1	CA	1497	G
1	CA	1498	U
1	CA	1499	A
1	CA	1502	A
1	CA	1503	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1507	A
1	CA	1508	G
1	CA	1517	G
1	CA	1519	A
1	CA	1520	G
1	CA	1529	G
1	CA	1530	G
1	CA	1531	A
22	CV	7	A
22	CV	8	U
22	CV	18	G
22	CV	20	U
22	CV	22	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
22	CV	41	C
22	CV	42	C
22	CV	46	G
22	CV	47	U
22	CV	48	C
22	CV	49	C
22	CV	50	U
22	CV	52	G
22	CV	59	U
22	CV	60	U
22	CV	61	C
22	CV	62	C
22	CV	69	G
22	CV	75	C
22	CV	76	A
22	CW	4	C
22	CW	8	U
22	CW	9	A
22	CW	10	G
22	CW	16	U
22	CW	17	C
22	CW	18	G
22	CW	19	G
22	CW	21	A
22	CW	39	U
22	CW	44	G
22	CW	45	U
22	CW	47	U
22	CW	49	C
22	CW	50	U
22	CW	59	U
22	CW	60	U
22	CW	61	C
22	CW	62	C
22	CW	70	G
22	CW	74	C
23	CX	16	A
23	CX	22	A
23	CX	26	A
23	CX	27	A
24	CY	2	C
24	CY	3	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	CY	9	A
24	CY	10	G
24	CY	12	U
24	CY	14	A
24	CY	16	H2U
24	CY	17	H2U
24	CY	18	G
24	CY	19	G
24	CY	20	H2U
24	CY	21	A
24	CY	22	G
24	CY	34	G
24	CY	41	G
24	CY	42	U
24	CY	43	G
24	CY	48	C
24	CY	55	PSU
24	CY	56	C
24	CY	57	G
24	CY	59	A
24	CY	61	C
24	CY	62	U
24	CY	72	C
24	CY	73	A
24	CY	75	C
24	CY	76	A
36	DA	10	G
36	DA	15	G
36	DA	27	G
36	DA	32	C
36	DA	34	C
36	DA	45	C
36	DA	49	A
36	DA	50	U
36	DA	61	G
36	DA	63	U
36	DA	69	C
36	DA	71	A
36	DA	72	U
36	DA	74	A
36	DA	75	G
36	DA	76	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	82	G
36	DA	84	A
36	DA	85	G
36	DA	88	G
36	DA	90	U
36	DA	92	A
36	DA	94	C
36	DA	95	G
36	DA	96	G
36	DA	100	G
36	DA	102	G
36	DA	112	U
36	DA	118	A
36	DA	119	A
36	DA	120	U
36	DA	129	C
36	DA	139(A)	G
36	DA	141	A
36	DA	146	G
36	DA	153	C
36	DA	155	U
36	DA	174	C
36	DA	181	A
36	DA	182	A
36	DA	196	A
36	DA	197	A
36	DA	198	C
36	DA	199	A
36	DA	204	A
36	DA	205	G
36	DA	215	G
36	DA	221	A
36	DA	222	A
36	DA	229	A
36	DA	230	U
36	DA	233	A
36	DA	244	A
36	DA	245	G
36	DA	248	G
36	DA	266	G
36	DA	267	C
36	DA	271(K)	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	271(L)	U
36	DA	271(M)	G
36	DA	271(N)	U
36	DA	271(O)	C
36	DA	271(P)	C
36	DA	271(R)	G
36	DA	272(A)	U
36	DA	272(B)	G
36	DA	272(I)	U
36	DA	274	G
36	DA	276	A
36	DA	284	U
36	DA	288	C
36	DA	299	A
36	DA	300	A
36	DA	310	A
36	DA	312	G
36	DA	323	G
36	DA	329	G
36	DA	330	A
36	DA	331	A
36	DA	332	A
36	DA	333	G
36	DA	338	G
36	DA	343	C
36	DA	344	G
36	DA	349	G
36	DA	352	G
36	DA	353	G
36	DA	356	G
36	DA	358	U
36	DA	362	U
36	DA	363	G
36	DA	363(F)	A
36	DA	364	C
36	DA	372	G
36	DA	386	G
36	DA	387	U
36	DA	388	G
36	DA	394	A
36	DA	396	G
36	DA	405	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	406	G
36	DA	411	G
36	DA	412	A
36	DA	418	G
36	DA	428	A
36	DA	435	C
36	DA	444	C
36	DA	448	U
36	DA	451	C
36	DA	456	C
36	DA	457	A
36	DA	467	G
36	DA	470	A
36	DA	472	A
36	DA	473	G
36	DA	480	A
36	DA	481	G
36	DA	482	A
36	DA	483	A
36	DA	485	C
36	DA	494	G
36	DA	505	A
36	DA	508	G
36	DA	509	C
36	DA	512	G
36	DA	525	U
36	DA	527	C
36	DA	528	A
36	DA	530	G
36	DA	531	C
36	DA	532	A
36	DA	533	G
36	DA	537	C
36	DA	556	G
36	DA	561	G
36	DA	562	U
36	DA	563	G
36	DA	572	A
36	DA	573	G
36	DA	575	A
36	DA	586	A
36	DA	588	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	592	G
36	DA	599	G
36	DA	603	A
36	DA	604	G
36	DA	607	U
36	DA	613	G
36	DA	614(B)	G
36	DA	614(C)	A
36	DA	615	G
36	DA	620	G
36	DA	627	A
36	DA	629	G
36	DA	634	C
36	DA	637	A
36	DA	645	C
36	DA	646	A
36	DA	651	G
36	DA	653	A
36	DA	654	A
36	DA	654(J)	A
36	DA	654(K)	C
36	DA	656	G
36	DA	668	G
36	DA	669	G
36	DA	670	A
36	DA	673	C
36	DA	686	G
36	DA	695	G
36	DA	708	C
36	DA	717	G
36	DA	719	C
36	DA	722	A
36	DA	730	C
36	DA	748	G
36	DA	753	C
36	DA	765	G
36	DA	776	G
36	DA	782	A
36	DA	784	A
36	DA	785	G
36	DA	790	C
36	DA	791	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	792	G
36	DA	805	G
36	DA	812	C
36	DA	819	A
36	DA	827	U
36	DA	828	U
36	DA	830	G
36	DA	846	C
36	DA	848	G
36	DA	857	C
36	DA	859	G
36	DA	865	C
36	DA	866	A
36	DA	878	A
36	DA	889	C
36	DA	890	A
36	DA	896	A
36	DA	897	C
36	DA	904	C
36	DA	910	A
36	DA	917	A
36	DA	926	A
36	DA	932	G
36	DA	933	A
36	DA	935	C
36	DA	941	A
36	DA	945	A
36	DA	946	G
36	DA	958	U
36	DA	959	A
36	DA	961	C
36	DA	964	C
36	DA	965	C
36	DA	973	A
36	DA	974	G
36	DA	975	C
36	DA	980	A
36	DA	983	A
36	DA	985	C
36	DA	991	C
36	DA	996	A
36	DA	1005	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	1011	G
36	DA	1012	U
36	DA	1013	C
36	DA	1022	G
36	DA	1025	G
36	DA	1026	U
36	DA	1027	A
36	DA	1033	U
36	DA	1039	G
36	DA	1045	A
36	DA	1047	G
36	DA	1048	A
36	DA	1051	G
36	DA	1053	C
36	DA	1059	G
36	DA	1061	U
36	DA	1062	G
36	DA	1065	U
36	DA	1067	A
36	DA	1068	G
36	DA	1069	A
36	DA	1070	A
36	DA	1071	G
36	DA	1072	C
36	DA	1073	A
36	DA	1079	C
36	DA	1087	G
36	DA	1088	A
36	DA	1091	G
36	DA	1098	A
36	DA	1103	A
36	DA	1107	G
36	DA	1108	U
36	DA	1111	A
36	DA	1112	G
36	DA	1114	G
36	DA	1129	A
36	DA	1130	U
36	DA	1135	C
36	DA	1136	G
36	DA	1142	U
36	DA	1143	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	1152	C
36	DA	1154	G
36	DA	1155	A
36	DA	1157	G
36	DA	1167	U
36	DA	1170	G
36	DA	1171	G
36	DA	1174	A
36	DA	1175	U
36	DA	1176	G
36	DA	1177	A
36	DA	1178	C
36	DA	1194	A
36	DA	1195	G
36	DA	1204	A
36	DA	1205	U
36	DA	1210	A
36	DA	1211	U
36	DA	1212	G
36	DA	1218	C
36	DA	1221	C
36	DA	1223	G
36	DA	1227	G
36	DA	1238	G
36	DA	1244	G
36	DA	1250	G
36	DA	1253	A
36	DA	1255	U
36	DA	1256	G
36	DA	1265	A
36	DA	1271	G
36	DA	1272	A
36	DA	1273	U
36	DA	1289	C
36	DA	1292	U
36	DA	1300	U
36	DA	1301	A
36	DA	1302	A
36	DA	1314	C
36	DA	1319	G
36	DA	1321	A
36	DA	1332	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	1338	G
36	DA	1343	G
36	DA	1345	C
36	DA	1349	A
36	DA	1359	A
36	DA	1364	G
36	DA	1365	A
36	DA	1378	A
36	DA	1379	A
36	DA	1380	G
36	DA	1384	A
36	DA	1385	G
36	DA	1386	C
36	DA	1396	U
36	DA	1398	C
36	DA	1404	C
36	DA	1407	C
36	DA	1416	G
36	DA	1419	A
36	DA	1420	U
36	DA	1421	G
36	DA	1427	A
36	DA	1428	C
36	DA	1433	U
36	DA	1437	C
36	DA	1445	A
36	DA	1449	A
36	DA	1453	U
36	DA	1455	G
36	DA	1459	G
36	DA	1460	A
36	DA	1461	G
36	DA	1467	C
36	DA	1471	A
36	DA	1475	G
36	DA	1478	G
36	DA	1482	G
36	DA	1485	G
36	DA	1488	G
36	DA	1490	A
36	DA	1493	C
36	DA	1494	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	1495	A
36	DA	1497	U
36	DA	1499	C
36	DA	1502	C
36	DA	1505	C
36	DA	1509	C
36	DA	1509(A)	A
36	DA	1512	U
36	DA	1517	G
36	DA	1528(A)	A
36	DA	1541	G
36	DA	1542	A
36	DA	1544	A
36	DA	1554	A
36	DA	1558	A
36	DA	1559	G
36	DA	1567	A
36	DA	1569	A
36	DA	1575	C
36	DA	1578	U
36	DA	1579	A
36	DA	1580	A
36	DA	1584	C
36	DA	1586	A
36	DA	1591	G
36	DA	1598	C
36	DA	1603	A
36	DA	1608	A
36	DA	1614	A
36	DA	1615	C
36	DA	1616	A
36	DA	1617	C
36	DA	1618	A
36	DA	1634	A
36	DA	1640	C
36	DA	1648	C
36	DA	1653	G
36	DA	1654	A
36	DA	1666	G
36	DA	1674	G
36	DA	1688	U
36	DA	1694	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	1695	G
36	DA	1698	A
36	DA	1699	G
36	DA	1700	A
36	DA	1703	G
36	DA	1717	G
36	DA	1718	G
36	DA	1721	G
36	DA	1722	A
36	DA	1739	U
36	DA	1740	G
36	DA	1742	G
36	DA	1748	G
36	DA	1756	G
36	DA	1763	G
36	DA	1764	G
36	DA	1773	A
36	DA	1776	G
36	DA	1780	A
36	DA	1781	C
36	DA	1782	C
36	DA	1791	A
36	DA	1799	G
36	DA	1800	C
36	DA	1801	G
36	DA	1816	G
36	DA	1817	G
36	DA	1820	U
36	DA	1821	A
36	DA	1835	G
36	DA	1838	C
36	DA	1839	G
36	DA	1847	A
36	DA	1848	A
36	DA	1858	G
36	DA	1865	G
36	DA	1866	C
36	DA	1878	G
36	DA	1881	C
36	DA	1882	C
36	DA	1885	A
36	DA	1888	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	1900	A
36	DA	1902	C
36	DA	1903	G
36	DA	1906	G
36	DA	1912	A
36	DA	1913	A
36	DA	1929	G
36	DA	1930	G
36	DA	1936	A
36	DA	1938	A
36	DA	1944	U
36	DA	1948	G
36	DA	1955	U
36	DA	1956	U
36	DA	1962	C
36	DA	1963	U
36	DA	1967	C
36	DA	1969	A
36	DA	1970	A
36	DA	1971	A
36	DA	1972	A
36	DA	1987	G
36	DA	1992	G
36	DA	1993	U
36	DA	1997	G
36	DA	2023	G
36	DA	2029	G
36	DA	2031	A
36	DA	2032	G
36	DA	2034	U
36	DA	2036	C
36	DA	2041	U
36	DA	2043	C
36	DA	2055	C
36	DA	2056	G
36	DA	2060	A
36	DA	2061	G
36	DA	2062	A
36	DA	2069	G
36	DA	2093	G
36	DA	2096	U
36	DA	2100	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	2102	U
36	DA	2103	C
36	DA	2104	G
36	DA	2107	C
36	DA	2108	C
36	DA	2109	U
36	DA	2111	C
36	DA	2116	G
36	DA	2117	A
36	DA	2118	U
36	DA	2127	G
36	DA	2128	C
36	DA	2129	C
36	DA	2131	G
36	DA	2132	U
36	DA	2133	G
36	DA	2145	C
36	DA	2146	C
36	DA	2147	G
36	DA	2156	G
36	DA	2160	G
36	DA	2165	G
36	DA	2172	U
36	DA	2173	A
36	DA	2174	C
36	DA	2179	C
36	DA	2180	U
36	DA	2183	C
36	DA	2185	C
36	DA	2186	G
36	DA	2187	G
36	DA	2189	U
36	DA	2190	G
36	DA	2192	G
36	DA	2193	G
36	DA	2198	A
36	DA	2199	A
36	DA	2200	C
36	DA	2203	U
36	DA	2207	G
36	DA	2208	A
36	DA	2218	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	2219	G
36	DA	2225	A
36	DA	2238	G
36	DA	2269	A
36	DA	2275	C
36	DA	2283	C
36	DA	2287	A
36	DA	2305	A
36	DA	2307	G
36	DA	2308	G
36	DA	2311	A
36	DA	2312	U
36	DA	2313	C
36	DA	2319	G
36	DA	2320	A
36	DA	2327	A
36	DA	2336	A
36	DA	2342	C
36	DA	2343	C
36	DA	2345	G
36	DA	2347	C
36	DA	2350	C
36	DA	2361	A
36	DA	2383	G
36	DA	2385	C
36	DA	2392	A
36	DA	2399	G
36	DA	2402	C
36	DA	2405	G
36	DA	2406	U
36	DA	2423	U
36	DA	2424	C
36	DA	2425	A
36	DA	2427	C
36	DA	2429	G
36	DA	2430	A
36	DA	2434	A
36	DA	2439	A
36	DA	2441	C
36	DA	2448	A
36	DA	2465	C
36	DA	2469	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	2470	G
36	DA	2476	A
36	DA	2477	C
36	DA	2478	A
36	DA	2482	G
36	DA	2494	G
36	DA	2497	A
36	DA	2502	G
36	DA	2505	G
36	DA	2509	G
36	DA	2518	A
36	DA	2521	C
36	DA	2524	G
36	DA	2529	G
36	DA	2543	G
36	DA	2554	U
36	DA	2566	A
36	DA	2567	G
36	DA	2572	A
36	DA	2578	G
36	DA	2582	G
36	DA	2586	C
36	DA	2593	U
36	DA	2602	A
36	DA	2609	U
36	DA	2610	C
36	DA	2611	U
36	DA	2612	C
36	DA	2615	U
36	DA	2630	G
36	DA	2639	A
36	DA	2641	G
36	DA	2646	C
36	DA	2653	U
36	DA	2654	A
36	DA	2655	G
36	DA	2657	A
36	DA	2670	A
36	DA	2673	G
36	DA	2675	A
36	DA	2682	U
36	DA	2690	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	2691	C
36	DA	2703	C
36	DA	2712	U
36	DA	2712(A)	A
36	DA	2713	A
36	DA	2720	U
36	DA	2726	U
36	DA	2732	G
36	DA	2733	A
36	DA	2750	A
36	DA	2751	G
36	DA	2752	C
36	DA	2757	A
36	DA	2759	G
36	DA	2761	G
36	DA	2762	G
36	DA	2763	G
36	DA	2765	A
36	DA	2766	G
36	DA	2777	G
36	DA	2778	A
36	DA	2779	U
36	DA	2780	G
36	DA	2781	A
36	DA	2787	C
36	DA	2789	C
36	DA	2790	A
36	DA	2791	C
36	DA	2794	C
36	DA	2801	A
36	DA	2801(A)	A
36	DA	2802	G
36	DA	2803	C
36	DA	2808	U
36	DA	2811	G
36	DA	2813	A
36	DA	2817	G
36	DA	2818	G
36	DA	2820	A
36	DA	2821	A
36	DA	2833	G
36	DA	2834	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DA	2835	A
36	DA	2849	U
36	DA	2872	G
36	DA	2879	C
36	DA	2880	C
36	DA	2883	A
36	DA	2893	G
37	DB	2	C
37	DB	8	U
37	DB	12	C
37	DB	13	A
37	DB	15	A
37	DB	16	G
37	DB	17	C
37	DB	19	G
37	DB	21	G
37	DB	25	A
37	DB	26	A
37	DB	32	C
37	DB	35	U
37	DB	39	A
37	DB	40	U
37	DB	41	U
37	DB	42	C
37	DB	43	C
37	DB	45	A
37	DB	53	A
37	DB	57	A
37	DB	68	C
37	DB	73	A
37	DB	75	G
37	DB	81	G
37	DB	88	C
37	DB	101	G
37	DB	110	G
37	DB	113	G

All (234) RNA pucker outliers are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	13	U
1	AA	30	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	47	C
1	AA	60	A
1	AA	64	G
1	AA	79	G
1	AA	109	A
1	AA	115	G
1	AA	119	A
1	AA	197	A
1	AA	202	U
1	AA	243	A
1	AA	250	A
1	AA	266	G
1	AA	274	A
1	AA	344	A
1	AA	351	G
1	AA	388	G
1	AA	412	A
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	495	A
1	AA	508	C
1	AA	534	U
1	AA	547	A
1	AA	560	U
1	AA	575	G
1	AA	641	U
1	AA	687	A
1	AA	748	C
1	AA	792	A
1	AA	817	C
1	AA	858	G
1	AA	889	A
1	AA	960	U
1	AA	961	U
1	AA	965	A
1	AA	968	A
1	AA	974	A
1	AA	982	U
1	AA	992	U
1	AA	1049	U
1	AA	1050	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1053	G
1	AA	1101	A
1	AA	1145	C
1	AA	1157	A
1	AA	1200	C
1	AA	1239	A
1	AA	1280	A
1	AA	1285	A
1	AA	1305	G
1	AA	1363(A)	A
1	AA	1380	U
1	AA	1399	C
1	AA	1498	U
1	AA	1504	G
1	AA	1529	G
22	AW	7	A
22	AW	44	G
36	BA	49	A
36	BA	71	A
36	BA	74	A
36	BA	83	G
36	BA	197	A
36	BA	199	A
36	BA	214	G
36	BA	221	A
36	BA	265	A
36	BA	331	A
36	BA	332	A
36	BA	363(F)	A
36	BA	387	U
36	BA	481	G
36	BA	587	C
36	BA	603	A
36	BA	614(A)	U
36	BA	614(C)	A
36	BA	752	A
36	BA	764	A
36	BA	790	C
36	BA	856	C
36	BA	1052	C
36	BA	1060	U
36	BA	1068	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BA	1069	A
36	BA	1210	A
36	BA	1300	U
36	BA	1301	A
36	BA	1378	A
36	BA	1427	A
36	BA	1541	G
36	BA	1558	A
36	BA	1603	A
36	BA	1653	G
36	BA	1693	U
36	BA	1799	G
36	BA	1819	A
36	BA	1820	U
36	BA	1966	A
36	BA	1970	A
36	BA	1992	G
36	BA	2033	A
36	BA	2110	G
36	BA	2126	A
36	BA	2131	G
36	BA	2179	C
36	BA	2282	G
36	BA	2391	G
36	BA	2422	A
36	BA	2481	G
36	BA	2610	C
36	BA	2689	U
36	BA	2756	U
36	BA	2762	G
37	BB	56	G
1	CA	13	U
1	CA	30	U
1	CA	47	C
1	CA	60	A
1	CA	64	G
1	CA	79	G
1	CA	109	A
1	CA	115	G
1	CA	119	A
1	CA	197	A
1	CA	202	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	243	A
1	CA	250	A
1	CA	266	G
1	CA	274	A
1	CA	344	A
1	CA	351	G
1	CA	388	G
1	CA	412	A
1	CA	428	G
1	CA	429	U
1	CA	484	G
1	CA	495	A
1	CA	508	C
1	CA	547	A
1	CA	560	U
1	CA	575	G
1	CA	641	U
1	CA	687	A
1	CA	748	C
1	CA	792	A
1	CA	817	C
1	CA	858	G
1	CA	889	A
1	CA	960	U
1	CA	961	U
1	CA	965	A
1	CA	968	A
1	CA	974	A
1	CA	982	U
1	CA	992	U
1	CA	1049	U
1	CA	1050	G
1	CA	1053	G
1	CA	1101	A
1	CA	1145	C
1	CA	1157	A
1	CA	1200	C
1	CA	1239	A
1	CA	1280	A
1	CA	1285	A
1	CA	1305	G
1	CA	1363(A)	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	1380	U
1	CA	1399	C
1	CA	1498	U
1	CA	1504	G
1	CA	1507	A
1	CA	1528	U
22	CW	7	A
22	CW	44	G
36	DA	49	A
36	DA	71	A
36	DA	74	A
36	DA	83	G
36	DA	197	A
36	DA	199	A
36	DA	214	G
36	DA	221	A
36	DA	265	A
36	DA	331	A
36	DA	332	A
36	DA	363(F)	A
36	DA	387	U
36	DA	481	G
36	DA	527	C
36	DA	587	C
36	DA	603	A
36	DA	614(A)	U
36	DA	614(C)	A
36	DA	752	A
36	DA	764	A
36	DA	790	C
36	DA	856	C
36	DA	1052	C
36	DA	1060	U
36	DA	1068	G
36	DA	1069	A
36	DA	1210	A
36	DA	1300	U
36	DA	1301	A
36	DA	1378	A
36	DA	1427	A
36	DA	1541	G
36	DA	1558	A

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Mol	Chain	Res	Type
36	DA	1603	A
36	DA	1653	G
36	DA	1693	U
36	DA	1799	G
36	DA	1819	A
36	DA	1820	U
36	DA	1970	A
36	DA	1992	G
36	DA	2033	A
36	DA	2110	G
36	DA	2126	A
36	DA	2131	G
36	DA	2179	C
36	DA	2282	G
36	DA	2391	G
36	DA	2422	A
36	DA	2481	G
36	DA	2610	C
36	DA	2689	U
36	DA	2756	U
36	DA	2762	G
37	DB	56	G

## 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

14 non-standard protein/DNA/RNA residues are modelled in this entry.

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
24	YG	AY	37	24	31,42,43	1.39	4 (12%)	33,62,65	2.14	13 (39%)
24	H2U	AY	16	24	18,21,22	0.95	1 (5%)	21,30,33	1.79	4 (19%)
24	H2U	CY	20	24	18,21,22	0.82	0	21,30,33	1.77	4 (19%)
24	H2U	CY	17	24	18,21,22	0.85	0	21,30,33	1.90	4 (19%)
24	5MU	AY	54	24	19,22,23	0.24	0	28,32,35	0.39	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
24	H2U	AY	20	24	18,21,22	0.83	0	21,30,33	1.75	4 (19%)
24	7MG	AY	46	24	22,26,27	2.99	2 (9%)	29,39,42	1.55	2 (6%)
24	7MG	CY	46	24	22,26,27	3.05	2 (9%)	29,39,42	1.54	2 (6%)
24	5MU	CY	54	24	19,22,23	0.24	0	28,32,35	0.37	0
24	YG	CY	37	24	31,42,43	1.32	3 (9%)	33,62,65	2.13	11 (33%)
24	H2U	CY	16	24	18,21,22	0.88	1 (5%)	21,30,33	1.80	4 (19%)
24	PSU	AY	55	24	18,21,22	1.06	2 (11%)	22,30,33	1.94	5 (22%)
24	H2U	AY	17	24	18,21,22	0.84	0	21,30,33	1.89	4 (19%)
24	PSU	CY	55	24	18,21,22	1.06	2 (11%)	22,30,33	1.97	6 (27%)

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
24	YG	AY	37	24	-	2/20/42/43	0/3/4/4
24	H2U	AY	16	24	-	2/7/38/39	0/2/2/2
24	H2U	CY	20	24	-	3/7/38/39	0/2/2/2
24	H2U	CY	17	24	-	5/7/38/39	0/2/2/2
24	5MU	AY	54	24	-	0/7/25/26	0/2/2/2
24	H2U	AY	20	24	-	3/7/38/39	0/2/2/2
24	7MG	AY	46	24	-	0/7/37/38	0/3/3/3
24	7MG	CY	46	24	-	0/7/37/38	0/3/3/3
24	5MU	CY	54	24	-	0/7/25/26	0/2/2/2
24	YG	CY	37	24	-	2/20/42/43	0/3/4/4
24	H2U	CY	16	24	-	2/7/38/39	0/2/2/2
24	PSU	AY	55	24	-	1/7/25/26	0/2/2/2
24	H2U	AY	17	24	-	5/7/38/39	0/2/2/2
24	PSU	CY	55	24	-	1/7/25/26	0/2/2/2

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	CY	46	7MG	C8-N9	-13.86	1.38	1.46
24	AY	46	7MG	C8-N9	-13.54	1.38	1.46
24	AY	37	YG	C12-N1	3.98	1.43	1.36
24	CY	37	YG	C12-N1	3.85	1.43	1.36
24	AY	37	YG	C8-N7	-3.51	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	CY	46	7MG	C5-N7	3.40	1.39	1.35
24	AY	46	7MG	C5-N7	3.39	1.39	1.35
24	AY	37	YG	C2-N2	-2.99	1.29	1.35
24	CY	37	YG	C2-N2	-2.86	1.30	1.35
24	CY	37	YG	C8-N7	-2.82	1.30	1.35
24	AY	16	H2U	C1'-N1	2.77	1.51	1.46
24	AY	55	PSU	C1'-C5	2.61	1.56	1.50
24	CY	55	PSU	C1'-C5	2.58	1.56	1.50
24	CY	16	H2U	C1'-N1	2.37	1.51	1.46
24	AY	37	YG	C13-C12	2.15	1.56	1.50
24	AY	55	PSU	C6-N1	2.05	1.39	1.36
24	CY	55	PSU	C6-N1	2.03	1.39	1.36

All (63) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	AY	46	7MG	N9-C8-N7	6.81	113.11	103.38
24	CY	46	7MG	N9-C8-N7	6.76	113.05	103.38
24	CY	17	H2U	C4-N3-C2	-5.43	121.29	125.79
24	CY	37	YG	C24-O23-C21	5.41	122.04	115.66
24	AY	16	H2U	C4-N3-C2	-5.34	121.36	125.79
24	CY	16	H2U	C4-N3-C2	-5.34	121.36	125.79
24	AY	17	H2U	C4-N3-C2	-5.32	121.38	125.79
24	AY	37	YG	C24-O23-C21	5.15	121.74	115.66
24	AY	37	YG	O23-C21-N20	4.70	119.06	110.80
24	CY	55	PSU	N1-C2-N3	4.59	120.33	115.13
24	CY	37	YG	O23-C21-N20	4.56	118.80	110.80
24	AY	55	PSU	N1-C2-N3	4.55	120.29	115.13
24	CY	20	H2U	C4-N3-C2	-4.55	122.02	125.79
24	AY	20	H2U	C4-N3-C2	-4.51	122.05	125.79
24	CY	20	H2U	N3-C2-N1	4.32	121.22	116.65
24	AY	20	H2U	N3-C2-N1	4.28	121.19	116.65
24	CY	17	H2U	N3-C2-N1	4.19	121.09	116.65
24	AY	17	H2U	N3-C2-N1	4.16	121.05	116.65
24	CY	16	H2U	N3-C2-N1	3.93	120.81	116.65
24	CY	55	PSU	C4-N3-C2	-3.85	120.78	126.34
24	AY	55	PSU	C4-N3-C2	-3.78	120.89	126.34
24	CY	20	H2U	C5-C4-N3	3.77	120.89	116.65
24	AY	46	7MG	C4-C5-N7	3.76	110.75	105.53
24	CY	46	7MG	C4-C5-N7	3.74	110.72	105.53
24	AY	20	H2U	C5-C4-N3	3.73	120.84	116.65
24	AY	16	H2U	N3-C2-N1	3.72	120.59	116.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	CY	55	PSU	O3'-C3'-C4'	3.68	121.70	111.05
24	CY	37	YG	C5-C6-N1	3.64	119.38	113.96
24	AY	55	PSU	O3'-C3'-C4'	3.60	121.47	111.05
24	AY	17	H2U	C5-C4-N3	3.58	120.67	116.65
24	CY	17	H2U	C5-C4-N3	3.57	120.66	116.65
24	AY	37	YG	C5-C6-N1	3.48	119.14	113.96
24	CY	55	PSU	O3'-C3'-C2'	3.47	123.05	111.82
24	AY	55	PSU	O3'-C3'-C2'	3.46	123.00	111.82
24	CY	37	YG	O18-C16-C15	3.42	120.27	111.52
24	AY	37	YG	C8-N7-C5	3.42	109.50	102.99
24	AY	37	YG	O18-C16-C15	3.41	120.24	111.52
24	CY	37	YG	C8-N7-C5	3.40	109.47	102.99
24	AY	37	YG	C3-N3-C4	3.33	122.62	116.71
24	CY	37	YG	C3-N3-C4	3.28	122.53	116.71
24	AY	16	H2U	C5-C4-N3	3.27	120.33	116.65
24	CY	16	H2U	C5-C4-N3	3.02	120.04	116.65
24	AY	37	YG	O22-C21-N20	-2.95	120.01	124.85
24	CY	37	YG	O22-C21-N20	-2.86	120.16	124.85
24	AY	37	YG	C11-C12-N1	-2.71	105.00	106.53
24	CY	55	PSU	O2-C2-N1	-2.56	119.97	122.79
24	AY	37	YG	O23-C21-O22	-2.48	120.93	124.58
24	CY	37	YG	O6-C6-C5	-2.48	119.78	124.17
24	CY	37	YG	C19-O18-C16	2.44	121.45	115.94
24	CY	37	YG	O23-C21-O22	-2.41	121.04	124.58
24	AY	55	PSU	O2-C2-N1	-2.39	120.16	122.79
24	AY	37	YG	C19-O18-C16	2.35	121.25	115.94
24	AY	37	YG	O6-C6-C5	-2.35	120.01	124.17
24	CY	16	H2U	O2-C2-N1	-2.31	120.20	123.11
24	CY	55	PSU	C6-C5-C4	-2.19	116.66	118.20
24	AY	37	YG	C3-N3-C2	-2.19	118.09	120.13
24	AY	16	H2U	O2-C2-N1	-2.16	120.40	123.11
24	CY	20	H2U	O2-C2-N1	-2.14	120.41	123.11
24	CY	37	YG	C11-C12-N1	-2.13	105.33	106.53
24	CY	17	H2U	O2-C2-N1	-2.07	120.50	123.11
24	AY	17	H2U	O2-C2-N1	-2.06	120.52	123.11
24	AY	20	H2U	O2-C2-N1	-2.02	120.57	123.11
24	AY	37	YG	O18-C16-O17	-2.02	119.89	123.84

There are no chirality outliers.

All (26) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
24	AY	17	H2U	O4'-C1'-N1-C2
24	AY	17	H2U	O4'-C1'-N1-C6
24	AY	20	H2U	O4'-C4'-C5'-O5'
24	AY	20	H2U	C3'-C4'-C5'-O5'
24	CY	17	H2U	O4'-C1'-N1-C2
24	CY	17	H2U	O4'-C1'-N1-C6
24	CY	20	H2U	O4'-C4'-C5'-O5'
24	CY	20	H2U	C3'-C4'-C5'-O5'
24	AY	20	H2U	C4'-C5'-O5'-P
24	CY	20	H2U	C4'-C5'-O5'-P
24	AY	16	H2U	O4'-C4'-C5'-O5'
24	AY	16	H2U	C3'-C4'-C5'-O5'
24	CY	16	H2U	O4'-C4'-C5'-O5'
24	CY	16	H2U	C3'-C4'-C5'-O5'
24	AY	17	H2U	O4'-C4'-C5'-O5'
24	CY	17	H2U	O4'-C4'-C5'-O5'
24	AY	37	YG	N20-C15-C16-O17
24	CY	37	YG	N20-C15-C16-O17
24	AY	37	YG	N20-C15-C16-O18
24	CY	37	YG	N20-C15-C16-O18
24	AY	17	H2U	C4'-C5'-O5'-P
24	CY	17	H2U	C4'-C5'-O5'-P
24	AY	17	H2U	C3'-C4'-C5'-O5'
24	CY	17	H2U	C3'-C4'-C5'-O5'
24	AY	55	PSU	O4'-C4'-C5'-O5'
24	CY	55	PSU	O4'-C4'-C5'-O5'

There are no ring outliers.

12 monomers are involved in 39 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
24	AY	37	YG	8	0
24	AY	16	H2U	3	0
24	CY	20	H2U	2	0
24	CY	17	H2U	1	0
24	AY	54	5MU	4	0
24	AY	20	H2U	2	0
24	CY	54	5MU	6	0
24	CY	37	YG	5	0
24	CY	16	H2U	3	0
24	AY	55	PSU	5	0
24	AY	17	H2U	1	0
24	CY	55	PSU	7	0

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 16 ligands modelled in this entry, 10 are monoatomic - leaving 6 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
62	GDP	AZ	501	-	24,30,30	1.26	2 (8%)	30,47,47	1.69	6 (20%)
62	GDP	CZ	501	-	24,30,30	1.32	3 (12%)	30,47,47	1.70	6 (20%)
59	PAR	AA	1601	-	45,45,45	1.49	5 (11%)	64,67,67	1.42	8 (12%)
63	KIR	CZ	502	-	56,59,59	3.43	24 (42%)	62,84,84	1.66	14 (22%)
63	KIR	AZ	502	-	56,59,59	3.40	23 (41%)	62,84,84	1.65	10 (16%)
59	PAR	CA	1601	-	45,45,45	1.43	5 (11%)	64,67,67	1.36	9 (14%)

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
62	GDP	AZ	501	-	-	2/12/32/32	0/3/3/3
62	GDP	CZ	501	-	-	3/12/32/32	0/3/3/3
59	PAR	AA	1601	-	-	7/18/94/94	0/4/4/4
63	KIR	CZ	502	-	-	6/54/98/98	0/3/3/3
63	KIR	AZ	502	-	-	7/54/98/98	0/3/3/3
59	PAR	CA	1601	-	-	5/18/94/94	0/4/4/4

All (62) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
63	AZ	502	KIR	O18-C17	-14.60	1.22	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
63	CZ	502	KIR	O18-C17	-14.49	1.22	1.44
63	CZ	502	KIR	O30-C30	-12.32	1.18	1.42
63	AZ	502	KIR	O30-C30	-12.23	1.18	1.42
63	CZ	502	KIR	C22-C21	6.04	1.39	1.33
63	AZ	502	KIR	C22-C21	5.57	1.38	1.33
63	CZ	502	KIR	C45-C28	5.20	1.63	1.53
63	AZ	502	KIR	C45-C28	4.94	1.62	1.53
63	CZ	502	KIR	C27-N26	4.81	1.44	1.33
63	AZ	502	KIR	C27-N26	4.41	1.43	1.33
63	AZ	502	KIR	C29-C28	4.28	1.63	1.54
63	AZ	502	KIR	C5-C4	4.24	1.47	1.39
59	AA	1601	PAR	C34-C24	4.23	1.58	1.53
63	CZ	502	KIR	O29-C29	4.04	1.48	1.40
63	AZ	502	KIR	C2-N1	4.01	1.40	1.33
63	CZ	502	KIR	C19-C17	4.01	1.64	1.54
63	AZ	502	KIR	O29-C29	3.93	1.47	1.40
62	CZ	501	GDP	C5-C6	-3.91	1.39	1.47
59	AA	1601	PAR	C64-C54	3.91	1.57	1.52
63	CZ	502	KIR	C8-C7	3.89	1.57	1.48
63	CZ	502	KIR	C5-C4	3.81	1.46	1.39
63	CZ	502	KIR	C42-C19	3.74	1.61	1.53
63	AZ	502	KIR	C19-C17	3.71	1.63	1.54
63	CZ	502	KIR	C29-C28	3.65	1.62	1.54
62	AZ	501	GDP	C5-C6	-3.63	1.40	1.47
63	AZ	502	KIR	C8-C7	3.58	1.57	1.48
63	AZ	502	KIR	C42-C19	3.56	1.60	1.53
63	CZ	502	KIR	C2-N1	3.52	1.39	1.33
63	CZ	502	KIR	O34-C29	3.50	1.49	1.43
63	AZ	502	KIR	O34-C29	3.49	1.49	1.43
59	AA	1601	PAR	O54-C14	3.35	1.50	1.41
59	CA	1601	PAR	C64-C54	3.33	1.56	1.52
63	CZ	502	KIR	C32-C31	3.33	1.59	1.54
59	CA	1601	PAR	C31-C21	3.20	1.57	1.53
59	CA	1601	PAR	C52-C42	2.98	1.58	1.52
59	CA	1601	PAR	O54-C14	2.90	1.49	1.41
63	AZ	502	KIR	C37-C38	2.80	1.39	1.32
62	AZ	501	GDP	O4'-C1'	2.67	1.44	1.41
62	CZ	501	GDP	O4'-C1'	2.67	1.44	1.41
63	AZ	502	KIR	C3-C7	2.66	1.55	1.50
63	AZ	502	KIR	C32-C31	2.63	1.58	1.54
63	CZ	502	KIR	C31-C30	2.63	1.58	1.54
63	CZ	502	KIR	C20-C21	2.61	1.55	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
63	CZ	502	KIR	C37-C38	2.61	1.39	1.32
63	AZ	502	KIR	C9-C8	2.50	1.41	1.34
59	AA	1601	PAR	C11-C21	2.41	1.57	1.52
63	CZ	502	KIR	C9-C8	2.40	1.41	1.34
63	CZ	502	KIR	C32-C33	2.38	1.58	1.55
63	AZ	502	KIR	C20-C21	2.35	1.55	1.51
63	CZ	502	KIR	C44-C21	2.34	1.55	1.50
63	CZ	502	KIR	C3-C7	2.33	1.54	1.50
63	AZ	502	KIR	C16-C17	2.32	1.58	1.52
59	CA	1601	PAR	C34-C24	2.29	1.56	1.53
63	AZ	502	KIR	C29-C30	2.28	1.57	1.53
63	CZ	502	KIR	C6-N1	2.27	1.39	1.34
63	CZ	502	KIR	C29-C30	2.22	1.57	1.53
63	CZ	502	KIR	C16-C17	2.19	1.57	1.52
63	AZ	502	KIR	C6-N1	2.19	1.39	1.34
63	AZ	502	KIR	C32-C33	2.12	1.58	1.55
63	AZ	502	KIR	C31-C30	2.10	1.57	1.54
59	AA	1601	PAR	C52-C42	2.05	1.56	1.52
62	CZ	501	GDP	C6-N1	2.03	1.40	1.37

All (53) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
63	CZ	502	KIR	O29-C29-O34	-4.52	102.64	110.21
63	AZ	502	KIR	O29-C29-O34	-4.49	102.69	110.21
59	AA	1601	PAR	C14-O54-C54	4.47	122.47	113.69
63	CZ	502	KIR	C48-C32-C47	-4.43	101.40	107.72
59	AA	1601	PAR	O33-C14-C24	4.42	115.83	108.22
62	CZ	501	GDP	O6-C6-N1	-4.28	115.60	120.65
63	AZ	502	KIR	C48-C32-C47	-4.24	101.68	107.72
62	AZ	501	GDP	O6-C6-N1	-4.19	115.71	120.65
59	CA	1601	PAR	O33-C14-C24	4.16	115.39	108.22
63	CZ	502	KIR	C11-C10-C9	-4.06	115.15	123.47
63	AZ	502	KIR	C11-C10-C9	-4.03	115.22	123.47
59	CA	1601	PAR	C14-O54-C54	3.77	121.08	113.69
59	AA	1601	PAR	O52-C13-C23	3.74	115.71	107.96
59	CA	1601	PAR	O54-C54-C64	3.64	112.79	106.01
62	AZ	501	GDP	O4'-C1'-C2'	-3.64	101.60	106.93
59	AA	1601	PAR	O52-C13-O43	-3.59	107.55	111.43
63	AZ	502	KIR	O34-C29-C28	3.54	113.73	104.46
63	CZ	502	KIR	O34-C29-C28	3.45	113.49	104.46
59	AA	1601	PAR	O54-C54-C64	3.42	112.37	106.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
62	CZ	501	GDP	C8-N7-C5	3.35	109.38	102.99
62	CZ	501	GDP	O4'-C1'-C2'	-3.35	102.04	106.93
62	CZ	501	GDP	C2-N1-C6	-3.29	119.04	125.10
63	AZ	502	KIR	C6-N1-C2	3.18	124.04	116.43
63	CZ	502	KIR	C45-C28-C27	3.14	113.29	108.86
59	CA	1601	PAR	O52-C13-C23	3.06	114.29	107.96
59	CA	1601	PAR	O52-C13-O43	-3.05	108.12	111.43
63	AZ	502	KIR	O18-C17-C16	3.02	109.94	104.27
63	CZ	502	KIR	C6-N1-C2	3.00	123.60	116.43
63	AZ	502	KIR	C45-C28-C27	2.97	113.06	108.86
62	AZ	501	GDP	C8-N7-C5	2.95	108.62	102.99
59	AA	1601	PAR	O11-C11-C21	2.88	113.18	108.22
63	CZ	502	KIR	O18-C17-C16	2.85	109.62	104.27
63	AZ	502	KIR	C5-C6-N1	-2.62	120.71	123.96
62	CZ	501	GDP	C5-C6-N1	2.59	118.52	113.95
63	AZ	502	KIR	C29-C30-C31	-2.58	107.25	110.66
62	AZ	501	GDP	PA-O3A-PB	-2.58	123.99	132.83
59	CA	1601	PAR	C11-O51-C51	2.56	118.71	113.69
63	CZ	502	KIR	C29-C30-C31	-2.51	107.34	110.66
62	AZ	501	GDP	C2-N1-C6	-2.51	120.48	125.10
59	AA	1601	PAR	C11-O51-C51	2.47	118.54	113.69
59	CA	1601	PAR	C22-C32-C42	2.39	115.57	109.53
63	CZ	502	KIR	C48-C32-C31	2.38	113.28	109.29
62	CZ	501	GDP	PA-O3A-PB	-2.37	124.71	132.83
59	AA	1601	PAR	C22-C32-C42	2.34	115.44	109.53
63	CZ	502	KIR	C5-C6-N1	-2.29	121.11	123.96
59	CA	1601	PAR	O11-C11-C21	2.26	112.11	108.22
63	AZ	502	KIR	C48-C32-C31	2.26	113.08	109.29
63	CZ	502	KIR	C23-C22-C21	-2.20	124.08	127.32
59	CA	1601	PAR	C22-C12-C62	-2.05	106.93	110.04
62	AZ	501	GDP	C5-C6-N1	2.03	117.53	113.95
63	CZ	502	KIR	O7-C7-C3	-2.02	115.19	119.91
63	CZ	502	KIR	C44-C21-C20	2.02	119.16	115.68
63	CZ	502	KIR	C48-C32-C33	2.01	113.45	109.48

There are no chirality outliers.

All (30) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
59	AA	1601	PAR	C44-C54-C64-N64
59	AA	1601	PAR	O54-C54-C64-N64
62	AZ	501	GDP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
62	AZ	501	GDP	PA-O3A-PB-O3B
62	CZ	501	GDP	PA-O3A-PB-O2B
62	CZ	501	GDP	PA-O3A-PB-O3B
63	AZ	502	KIR	O18-C17-C19-C42
59	CA	1601	PAR	O43-C43-C53-O53
59	CA	1601	PAR	C33-C43-C53-O53
63	AZ	502	KIR	C11-C10-C9-C8
63	CZ	502	KIR	C11-C10-C9-C8
59	AA	1601	PAR	C33-C43-C53-O53
63	AZ	502	KIR	C36-C37-C38-C39
63	CZ	502	KIR	C36-C37-C38-C39
59	AA	1601	PAR	O43-C13-O52-C52
63	AZ	502	KIR	C19-C20-O20-C43
63	CZ	502	KIR	C19-C20-O20-C43
63	CZ	502	KIR	O18-C17-C19-C42
59	AA	1601	PAR	O43-C43-C53-O53
59	AA	1601	PAR	C23-C13-O52-C52
63	AZ	502	KIR	C16-C17-C19-C42
59	CA	1601	PAR	C43-C33-O33-C14
63	AZ	502	KIR	C21-C20-O20-C43
63	CZ	502	KIR	C21-C20-O20-C43
63	AZ	502	KIR	C2-C3-C7-O7
63	CZ	502	KIR	C2-C3-C7-O7
62	CZ	501	GDP	C5'-O5'-PA-O1A
59	AA	1601	PAR	C43-C33-O33-C14
59	CA	1601	PAR	C23-C33-O33-C14
59	CA	1601	PAR	O51-C11-O11-C42

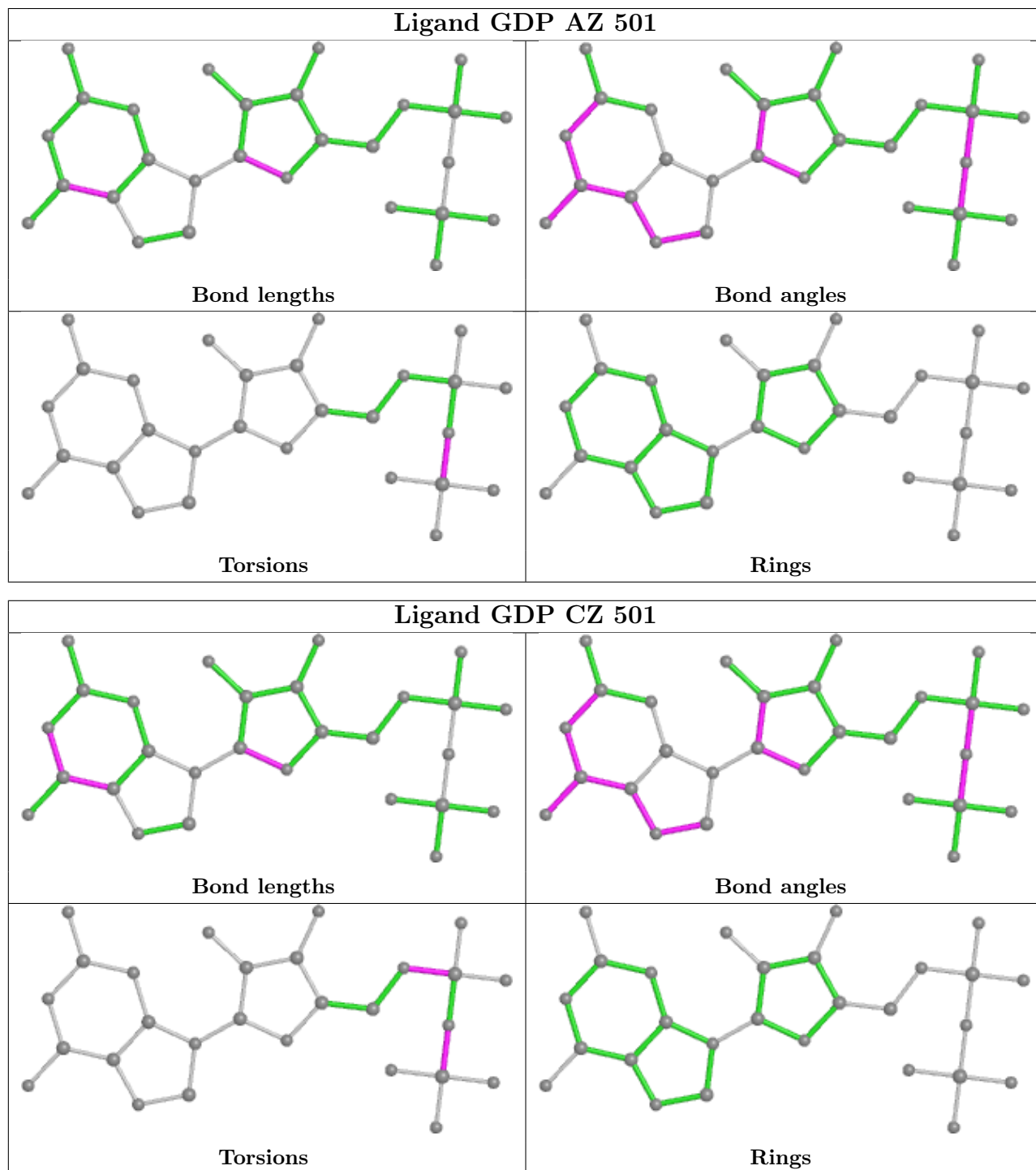
There are no ring outliers.

6 monomers are involved in 49 short contacts:

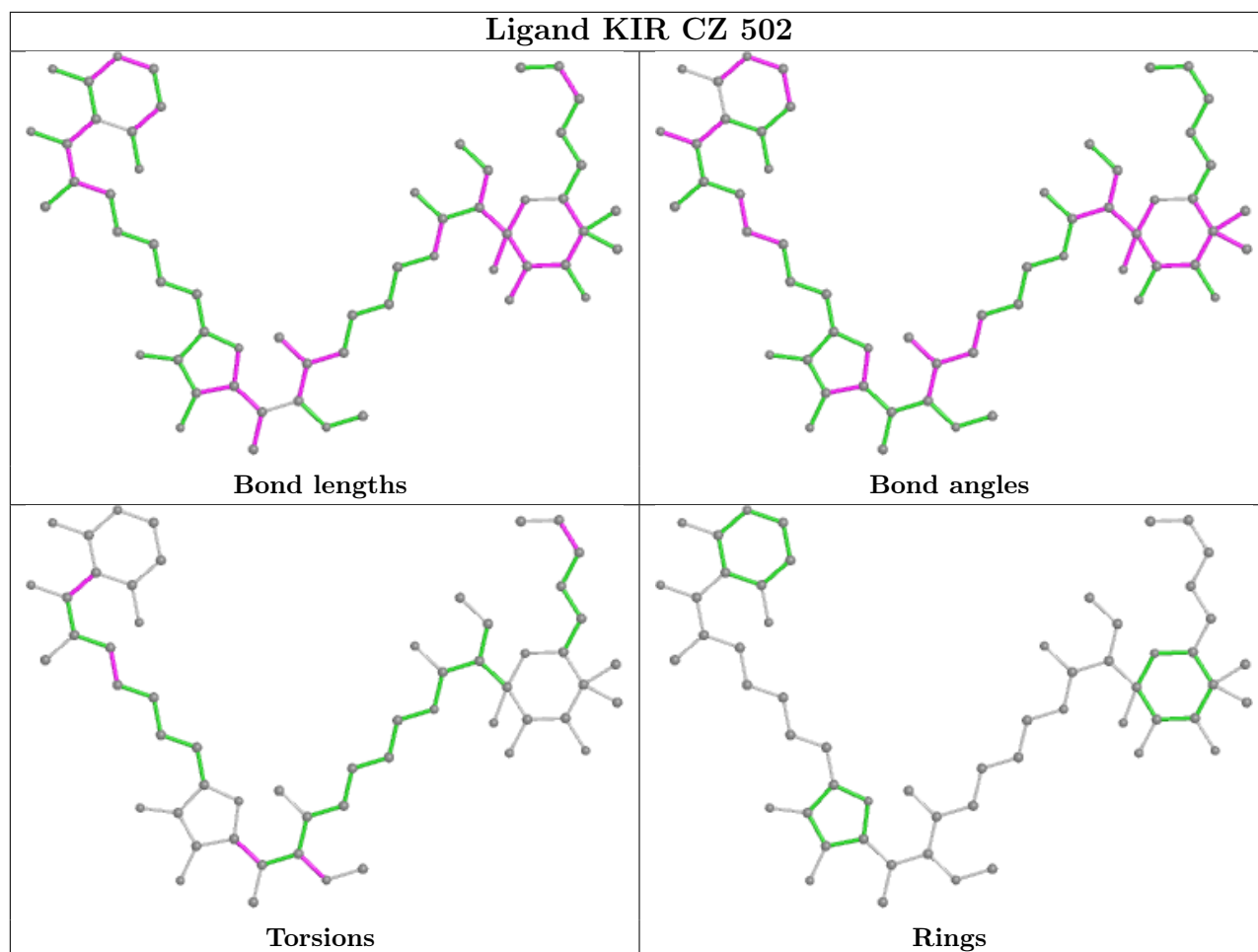
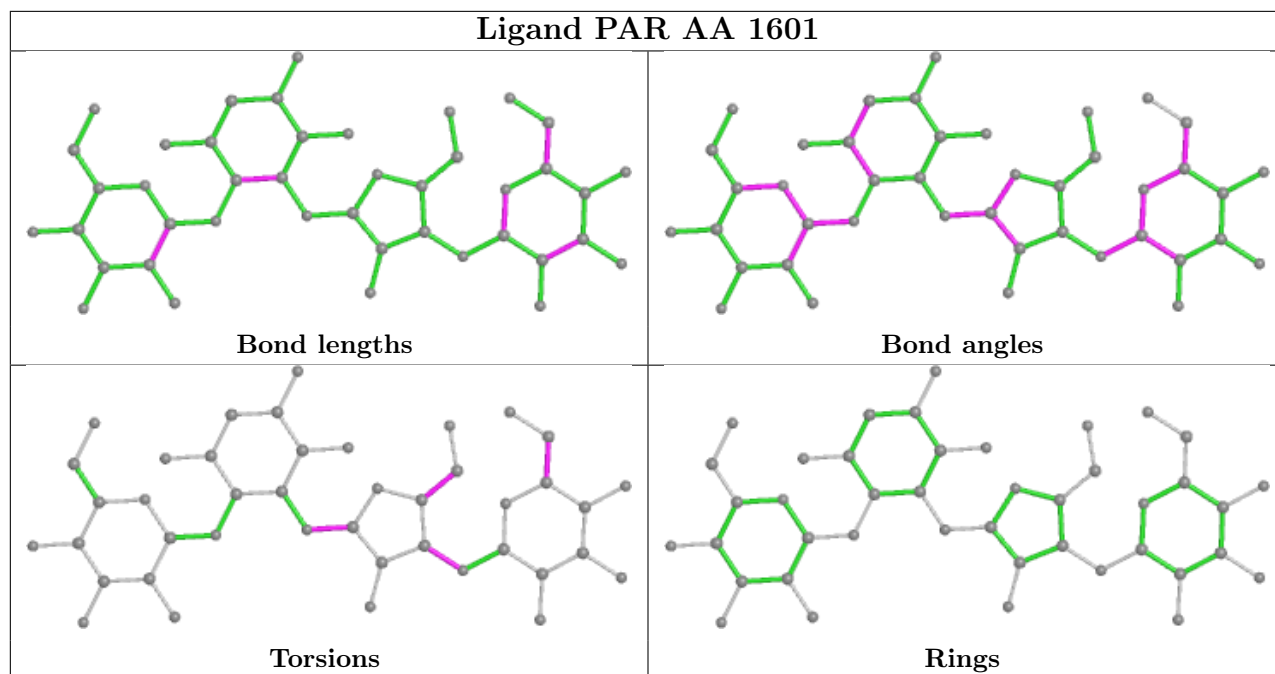
Mol	Chain	Res	Type	Clashes	Symm-Clashes
62	AZ	501	GDP	15	0
62	CZ	501	GDP	15	0
59	AA	1601	PAR	4	0
63	CZ	502	KIR	8	0
63	AZ	502	KIR	4	0
59	CA	1601	PAR	3	0

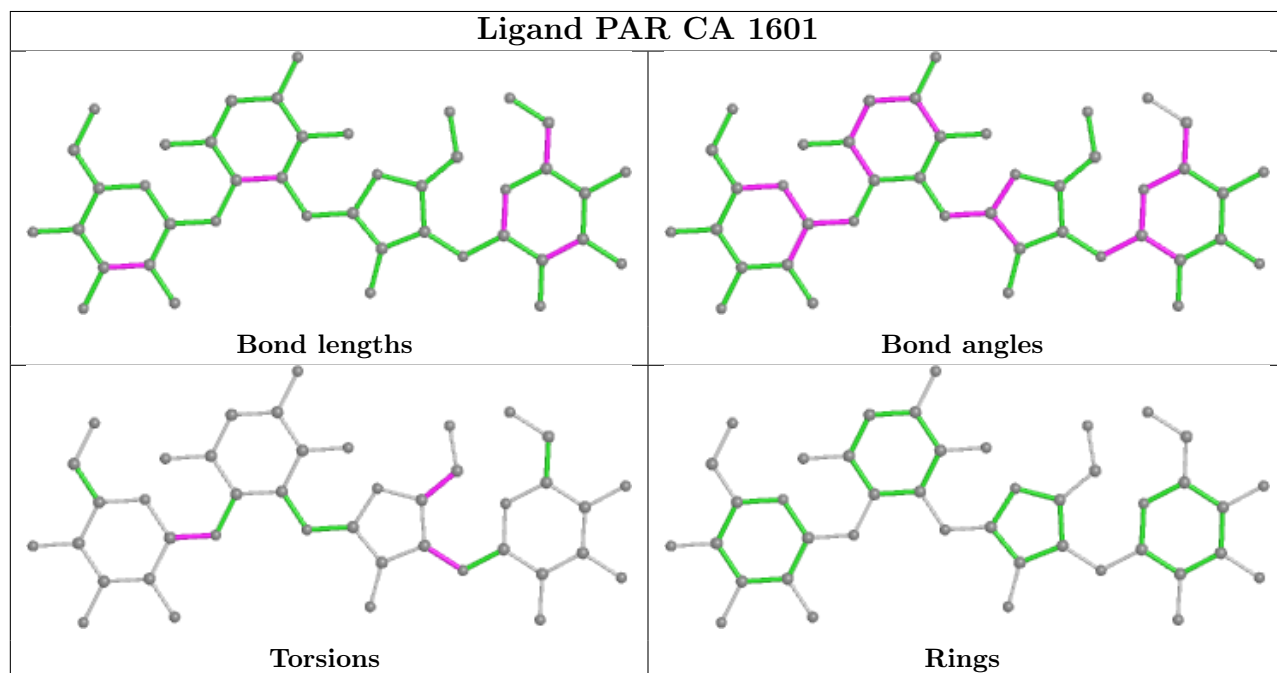
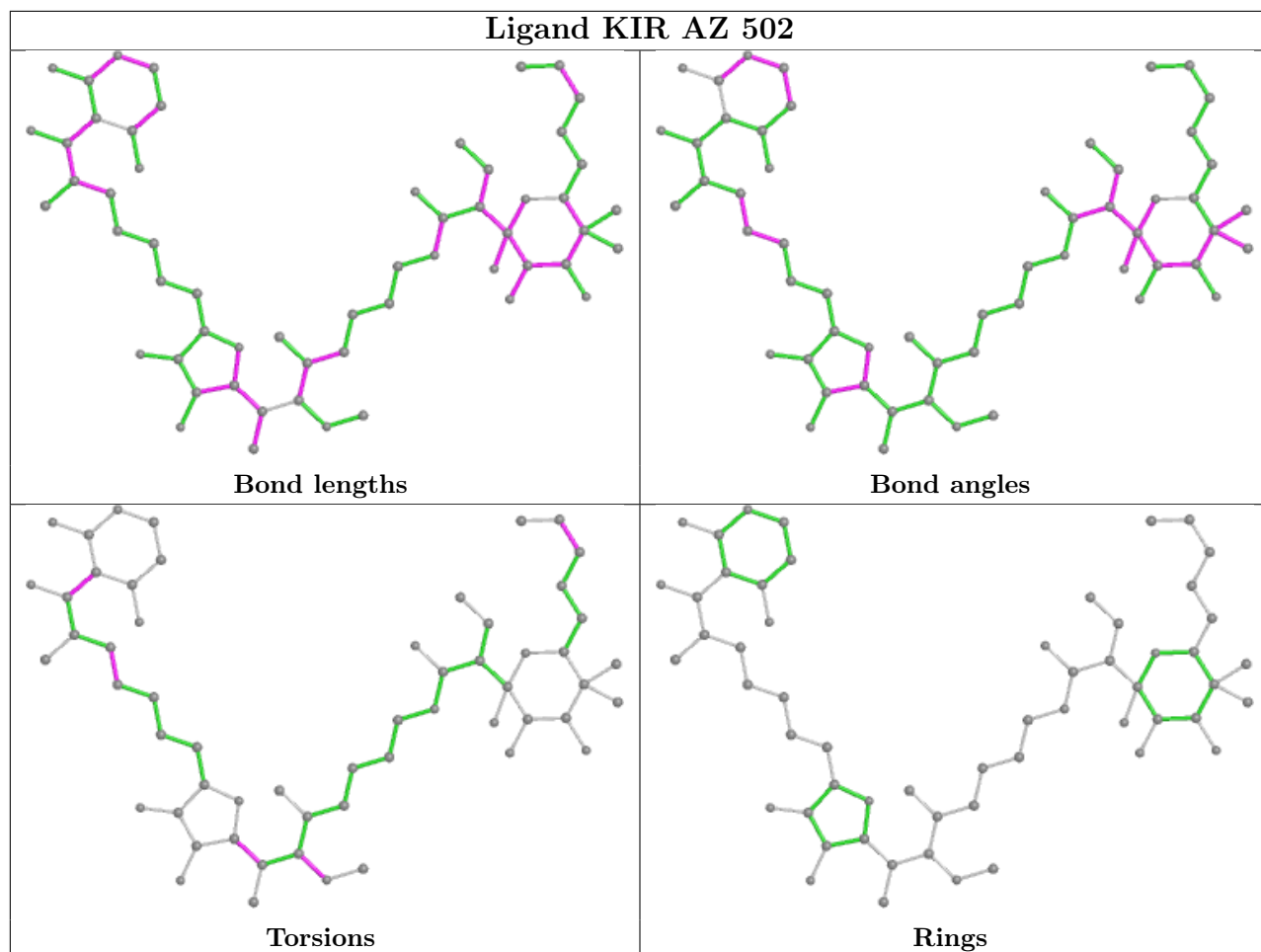
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will

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
30	D4	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D4	47:GLN	C	48:ARG	N	1.19

## 6 Fit of model and data i

### 6.1 Protein, DNA and RNA chains i

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	AA	1504/1522 (98%)	-0.07	10 (0%) 87 78	29, 82, 163, 200	0
1	CA	1504/1522 (98%)	-0.17	13 (0%) 84 73	28, 83, 163, 200	0
2	AB	235/256 (91%)	-0.06	3 (1%) 77 63	63, 102, 151, 161	0
2	CB	235/256 (91%)	-0.15	4 (1%) 70 55	63, 102, 151, 162	0
3	AC	207/239 (86%)	-0.19	1 (0%) 91 83	54, 91, 111, 117	0
3	CC	207/239 (86%)	-0.20	2 (0%) 82 70	59, 91, 111, 117	0
4	AD	208/209 (99%)	-0.23	1 (0%) 91 83	60, 91, 116, 122	0
4	CD	208/209 (99%)	-0.15	1 (0%) 91 83	61, 92, 117, 123	0
5	AE	151/162 (93%)	-0.30	0 100 100	44, 72, 90, 108	0
5	CE	151/162 (93%)	-0.25	1 (0%) 87 78	43, 73, 91, 109	0
6	AF	101/101 (100%)	-0.20	0 100 100	91, 102, 110, 118	0
6	CF	101/101 (100%)	-0.03	1 (0%) 82 70	92, 103, 111, 118	0
7	AG	155/156 (99%)	-0.10	3 (1%) 66 51	79, 104, 134, 141	0
7	CG	155/156 (99%)	-0.13	6 (3%) 39 25	81, 104, 134, 141	0
8	AH	138/138 (100%)	-0.04	1 (0%) 87 78	62, 80, 97, 116	0
8	CH	138/138 (100%)	-0.14	0 100 100	61, 82, 97, 115	0
9	AI	127/128 (99%)	0.08	5 (3%) 39 25	73, 126, 153, 158	0
9	CI	127/128 (99%)	0.11	3 (2%) 59 42	74, 126, 154, 159	0
10	AJ	99/105 (94%)	0.41	9 (9%) 9 5	79, 121, 149, 154	0
10	CJ	99/105 (94%)	0.42	10 (10%) 7 4	80, 121, 148, 153	0
11	AK	119/129 (92%)	-0.10	4 (3%) 45 30	63, 84, 125, 150	0
11	CK	119/129 (92%)	-0.01	4 (3%) 45 30	65, 85, 126, 151	0
12	AL	125/135 (92%)	-0.24	1 (0%) 86 75	47, 70, 100, 125	0
12	CL	125/135 (92%)	-0.09	1 (0%) 86 75	52, 71, 101, 125	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
13	AM	125/126 (99%)	0.12	6 (4%) 30 19	79, 119, 143, 159	0
13	CM	125/126 (99%)	0.12	5 (4%) 38 25	80, 118, 143, 159	0
14	AN	60/61 (98%)	-0.22	1 (1%) 70 55	60, 77, 96, 101	0
14	CN	60/61 (98%)	-0.12	1 (1%) 70 55	61, 77, 95, 103	0
15	AO	88/89 (98%)	-0.05	1 (1%) 80 68	69, 92, 109, 112	0
15	CO	88/89 (98%)	0.00	2 (2%) 60 44	72, 91, 109, 112	0
16	AP	84/88 (95%)	-0.05	1 (1%) 79 66	76, 89, 119, 137	0
16	CP	84/88 (95%)	0.01	2 (2%) 59 42	74, 89, 118, 137	0
17	AQ	100/105 (95%)	-0.05	0 100 100	65, 92, 115, 121	0
17	CQ	100/105 (95%)	0.03	2 (2%) 65 49	67, 92, 115, 121	0
18	AR	70/88 (79%)	-0.20	1 (1%) 75 61	55, 86, 114, 121	0
18	CR	70/88 (79%)	-0.22	1 (1%) 75 61	57, 87, 115, 121	0
19	AS	79/93 (84%)	0.42	10 (12%) 3 2	82, 120, 143, 146	0
19	CS	79/93 (84%)	0.27	7 (8%) 9 5	83, 120, 144, 146	0
20	AT	99/106 (93%)	-0.14	4 (4%) 38 25	94, 109, 129, 132	0
20	CT	99/106 (93%)	-0.15	1 (1%) 82 70	93, 109, 129, 132	0
21	AU	25/27 (92%)	0.64	3 (12%) 4 3	104, 116, 137, 139	0
21	CU	25/27 (92%)	0.38	1 (4%) 38 25	104, 116, 136, 138	0
22	AV	76/76 (100%)	-0.15	0 100 100	54, 120, 170, 179	0
22	AW	76/76 (100%)	-0.06	1 (1%) 77 63	82, 147, 186, 199	0
22	CV	76/76 (100%)	-0.21	0 100 100	54, 121, 170, 179	0
22	CW	76/76 (100%)	0.06	3 (3%) 39 25	84, 148, 185, 199	0
23	AX	13/27 (48%)	0.32	1 (7%) 13 8	45, 63, 136, 154	0
23	CX	13/27 (48%)	0.16	0 100 100	47, 62, 136, 154	0
24	AY	70/77 (90%)	0.23	2 (2%) 51 35	74, 155, 194, 200	0
24	CY	70/77 (90%)	0.47	6 (8%) 10 6	76, 156, 194, 200	0
25	AZ	374/406 (92%)	0.49	36 (9%) 8 4	97, 139, 158, 177	0
25	CZ	374/406 (92%)	0.78	67 (17%) 1 0	98, 139, 158, 176	0
26	B0	84/85 (98%)	0.16	0 100 100	104, 116, 128, 137	0
26	D0	84/85 (98%)	0.27	2 (2%) 59 42	104, 116, 129, 137	0
27	B1	94/98 (95%)	-0.21	3 (3%) 47 32	41, 71, 107, 111	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
27	D1	94/98 (95%)	-0.19	1 (1%) 80 68	63, 85, 115, 122	0
28	B2	71/72 (98%)	-0.24	0 100 100	84, 115, 128, 130	0
28	D2	71/72 (98%)	0.14	3 (4%) 36 23	104, 125, 144, 163	0
29	B3	60/60 (100%)	0.85	9 (15%) 2 1	106, 122, 132, 148	0
29	D3	60/60 (100%)	0.48	5 (8%) 11 7	107, 122, 132, 148	0
30	B4	45/71 (63%)	0.75	8 (17%) 1 1	107, 169, 196, 198	0
30	D4	45/71 (63%)	0.61	6 (13%) 3 2	107, 170, 195, 197	0
31	B5	59/60 (98%)	0.63	5 (8%) 10 6	89, 116, 175, 187	0
31	D5	59/60 (98%)	0.42	6 (10%) 6 4	90, 115, 175, 186	0
32	B6	50/54 (92%)	0.47	7 (14%) 2 2	78, 119, 146, 152	0
32	D6	50/54 (92%)	0.48	6 (12%) 4 3	79, 119, 147, 152	0
33	B7	49/49 (100%)	-0.18	0 100 100	59, 77, 144, 152	0
33	D7	49/49 (100%)	-0.41	0 100 100	60, 78, 145, 152	0
34	B8	64/65 (98%)	0.12	3 (4%) 31 19	80, 104, 124, 138	0
34	D8	64/65 (98%)	0.24	3 (4%) 31 19	83, 104, 125, 138	0
35	B9	37/37 (100%)	0.21	2 (5%) 25 16	104, 117, 124, 128	0
35	D9	37/37 (100%)	0.71	4 (10%) 5 3	103, 118, 125, 126	0
36	BA	2901/2915 (99%)	-0.04	49 (1%) 70 55	31, 100, 192, 200	0
36	DA	2901/2915 (99%)	-0.05	59 (2%) 65 49	31, 101, 192, 200	0
37	BB	119/122 (97%)	0.04	3 (2%) 57 41	103, 142, 169, 175	0
37	DB	119/122 (97%)	-0.15	0 100 100	102, 142, 168, 174	0
38	BC	228/229 (99%)	0.37	16 (7%) 16 9	92, 122, 168, 178	0
38	DC	228/229 (99%)	0.54	27 (11%) 4 3	92, 122, 167, 179	0
39	BD	275/276 (99%)	-0.13	2 (0%) 87 78	30, 67, 96, 110	0
39	DD	275/276 (99%)	-0.17	2 (0%) 87 78	38, 68, 96, 109	0
40	BE	205/206 (99%)	0.18	9 (4%) 34 21	67, 106, 143, 154	0
40	DE	205/206 (99%)	0.12	5 (2%) 59 42	67, 106, 143, 153	0
41	BF	208/210 (99%)	0.14	10 (4%) 30 19	61, 123, 160, 167	0
41	DF	208/210 (99%)	0.28	11 (5%) 26 16	62, 123, 160, 166	0
42	BG	181/182 (99%)	0.08	10 (5%) 25 15	103, 128, 146, 163	0
42	DG	181/182 (99%)	0.34	14 (7%) 13 8	111, 133, 151, 159	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
43	BH	160/180 (88%)	0.67	27 (16%) 1 1	131, 155, 174, 176	0
43	DH	160/180 (88%)	0.92	27 (16%) 1 1	131, 155, 174, 176	0
44	BJ	0/173	-	-	-	-
44	DJ	0/173	-	-	-	-
45	BK	0/147	-	-	-	-
45	DK	0/147	-	-	-	-
46	BN	139/140 (99%)	0.20	6 (4%) 35 22	103, 123, 148, 155	0
46	DN	139/140 (99%)	0.22	9 (6%) 18 11	103, 123, 148, 155	0
47	BO	122/122 (100%)	-0.14	0 100 100	60, 80, 96, 104	0
47	DO	122/122 (100%)	-0.05	0 100 100	61, 80, 96, 106	0
48	BP	146/150 (97%)	0.02	6 (4%) 37 24	71, 113, 133, 140	0
48	DP	146/150 (97%)	0.35	14 (9%) 8 4	70, 114, 133, 139	0
49	BQ	141/141 (100%)	0.10	5 (3%) 44 29	73, 106, 130, 159	0
49	DQ	141/141 (100%)	0.14	3 (2%) 63 48	73, 105, 129, 159	0
50	BR	117/118 (99%)	0.11	5 (4%) 35 22	81, 105, 123, 143	0
50	DR	117/118 (99%)	0.18	4 (3%) 45 30	82, 105, 124, 143	0
51	BS	99/112 (88%)	0.22	3 (3%) 50 34	96, 133, 155, 162	0
51	DS	99/112 (88%)	0.35	5 (5%) 28 17	97, 133, 156, 162	0
52	BT	138/146 (94%)	0.09	6 (4%) 35 22	72, 112, 166, 181	0
52	DT	138/146 (94%)	0.21	10 (7%) 15 9	73, 111, 166, 181	0
53	BU	117/118 (99%)	0.17	4 (3%) 45 30	87, 120, 141, 147	0
53	DU	117/118 (99%)	-0.07	3 (2%) 56 40	88, 119, 141, 148	0
54	BV	101/101 (100%)	0.77	18 (17%) 1 1	105, 144, 159, 164	0
54	DV	101/101 (100%)	0.73	18 (17%) 1 1	106, 145, 159, 165	0
55	BW	113/113 (100%)	0.14	9 (7%) 12 7	81, 109, 132, 136	0
55	DW	113/113 (100%)	0.17	3 (2%) 54 38	81, 109, 131, 136	0
56	BX	93/96 (96%)	0.04	2 (2%) 62 45	96, 108, 124, 128	0
56	DX	93/96 (96%)	0.14	5 (5%) 25 16	97, 109, 125, 130	0
57	BY	101/110 (91%)	0.66	12 (11%) 4 3	124, 145, 165, 170	0
57	DY	101/110 (91%)	1.18	26 (25%) 0 0	123, 145, 163, 170	0
58	BZ	176/206 (85%)	0.71	28 (15%) 1 1	107, 133, 161, 164	0
58	DZ	176/206 (85%)	1.00	41 (23%) 0 0	109, 139, 168, 171	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
All	All	22002/23378 (94%)	0.06	838 (3%) 40 26	28, 105, 164, 200	0

All (838) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
49	DQ	140	ALA	16.1
31	B5	60	VAL	14.7
57	DY	52	SER	12.2
1	AA	89	C	11.2
36	DA	654(I)	C	11.0
49	DQ	141	GLN	10.8
38	BC	105	ASP	10.0
36	BA	654(J)	A	10.0
36	DA	654(G)	C	10.0
36	DA	654(C)	G	9.8
57	BY	52	SER	9.7
36	DA	2799	C	9.6
36	BA	654(I)	C	9.2
38	DC	95	GLY	9.1
31	D5	60	VAL	9.0
36	BA	2897	U	8.9
49	BQ	141	GLN	8.7
58	DZ	118	GLN	8.2
31	B5	59	GLU	8.2
29	B3	1	MET	8.1
57	DY	51	VAL	8.0
43	DH	45	VAL	8.0
43	DH	171	LEU	7.7
36	DA	654(D)	G	7.7
25	AZ	42	VAL	7.5
25	CZ	108	ALA	7.4
36	DA	654(F)	C	7.4
34	D8	65	GLU	7.3
42	BG	50	ALA	7.3
36	DA	275	G	7.0
38	DC	77	ILE	7.0
48	DP	117	GLU	7.0
38	DC	94	VAL	6.9
38	DC	76	ALA	6.8
16	AP	84	ALA	6.8
36	BA	654(N)	G	6.7
1	CA	80	G	6.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
57	DY	79	CYS	6.6
38	BC	95	GLY	6.6
36	DA	654(E)	G	6.5
36	BA	654(H)	G	6.5
13	CM	123	ALA	6.5
58	DZ	143	GLY	6.4
52	BT	39	ARG	6.4
36	BA	654(G)	C	6.4
43	DH	96	ALA	6.3
40	DE	68	ALA	6.3
36	DA	654(S)	G	6.3
25	AZ	319	SER	6.2
42	DG	26	GLN	6.2
36	DA	1066	U	6.2
25	AZ	37	ALA	6.2
58	DZ	115	GLY	5.9
25	CZ	109	ALA	5.9
52	BT	1	MET	5.9
36	DA	654(H)	G	5.9
38	BC	1	PRO	5.9
36	BA	2799	C	5.8
14	CN	2	ALA	5.8
57	BY	51	VAL	5.8
42	DG	25	TYR	5.7
36	BA	654(K)	C	5.7
25	AZ	372	VAL	5.7
48	DP	118	GLY	5.7
41	DF	8	GLN	5.6
1	AA	88	A	5.6
42	DG	48	GLU	5.6
28	D2	72	ALA	5.6
58	DZ	140	ASP	5.6
49	BQ	140	ALA	5.5
31	D5	59	GLU	5.5
50	BR	118	GLU	5.5
36	BA	654(E)	G	5.4
25	CZ	120	ILE	5.4
1	CA	82	U	5.4
36	BA	654(O)	G	5.4
1	CA	1030(B)	C	5.4
30	B4	25	TYR	5.4
28	D2	71	ASN	5.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
22	CW	34	G	5.3
38	BC	106	GLY	5.3
1	CA	88	A	5.3
25	CZ	101	GLY	5.3
42	DG	49	ASP	5.3
25	CZ	133	VAL	5.3
25	CZ	190	ARG	5.2
58	DZ	114	GLY	5.2
41	DF	23	ASP	5.2
25	AZ	131	ILE	5.2
43	BH	40	GLU	5.2
36	DA	888	C	5.2
13	CM	84	ILE	5.2
43	BH	38	SER	5.1
36	DA	277	C	5.0
1	AA	84	U	5.0
13	AM	122	LYS	5.0
38	DC	89	ALA	5.0
36	DA	2897	U	5.0
36	DA	2796	U	4.9
54	BV	5	VAL	4.9
36	DA	2795	G	4.9
36	BA	654(C)	G	4.9
36	DA	654(L)	G	4.8
52	DT	135	ALA	4.8
38	DC	90	GLY	4.8
25	CZ	102	ALA	4.8
38	DC	110	PHE	4.8
42	DG	50	ALA	4.8
54	DV	13	ARG	4.7
57	DY	30	VAL	4.7
43	DH	81	GLU	4.7
25	CZ	31	LEU	4.7
38	BC	112	ALA	4.6
25	AZ	199	ILE	4.6
36	BA	654(L)	G	4.6
42	DG	34	LEU	4.6
25	CZ	117	ARG	4.6
54	BV	6	LYS	4.6
25	AZ	102	ALA	4.5
10	AJ	101	VAL	4.5
25	CZ	100	ASP	4.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
30	D4	34	GLU	4.5
36	BA	654(D)	G	4.5
43	DH	26	VAL	4.5
52	DT	137	LYS	4.5
11	AK	13	GLN	4.5
43	BH	52	VAL	4.5
13	AM	124	PRO	4.5
52	DT	1	MET	4.5
54	DV	63	GLY	4.4
30	B4	38	LYS	4.4
54	BV	73	SER	4.4
1	CA	84	U	4.4
10	AJ	32	ALA	4.4
25	CZ	77	TYR	4.4
32	B6	23	THR	4.4
36	DA	2801(A)	A	4.3
25	AZ	41	ASN	4.3
54	BV	84	LYS	4.3
13	AM	123	ALA	4.3
11	AK	129	SER	4.3
30	D4	17	GLY	4.3
42	BG	25	TYR	4.3
17	CQ	80	GLY	4.2
29	B3	2	PRO	4.2
38	DC	125	SER	4.2
38	DC	126	LYS	4.2
19	CS	81	ARG	4.2
30	D4	38	LYS	4.2
58	DZ	95	PRO	4.2
38	DC	93	TYR	4.1
36	DA	654(J)	A	4.1
36	BA	654(A)	G	4.1
25	CZ	11	HIS	4.1
35	D9	1	MET	4.1
36	DA	896	A	4.1
32	B6	26	ASN	4.1
54	BV	93	GLU	4.1
58	DZ	144	LEU	4.1
10	CJ	85	LEU	4.1
22	CW	35	A	4.1
38	BC	36	LYS	4.1
40	BE	48	GLN	4.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
43	DH	83	TYR	4.0
43	DH	82	GLY	4.0
36	DA	2802	G	4.0
38	DC	67	GLY	4.0
7	CG	2	ALA	4.0
50	DR	116	LEU	4.0
38	DC	109	ASP	4.0
25	CZ	42	VAL	4.0
58	DZ	142	SER	3.9
25	CZ	229	PHE	3.9
58	DZ	146	ILE	3.9
58	BZ	159	PRO	3.9
58	DZ	68	PRO	3.9
42	BG	109	VAL	3.9
42	DG	146	TYR	3.9
58	DZ	106	GLY	3.9
1	CA	81	U	3.9
51	DS	40	ILE	3.9
48	DP	122	PRO	3.9
29	D3	1	MET	3.9
25	CZ	141	VAL	3.9
58	BZ	144	LEU	3.9
32	D6	23	THR	3.9
58	BZ	158	PRO	3.9
36	DA	654(K)	C	3.9
22	AW	47	U	3.8
25	CZ	28	THR	3.8
36	BA	2310	A	3.8
48	DP	150	ALA	3.8
30	D4	14	ILE	3.8
43	DH	84	SER	3.8
58	DZ	141	VAL	3.8
58	DZ	147	GLY	3.8
58	BZ	15	PRO	3.8
43	BH	18	GLU	3.8
43	BH	59	ARG	3.8
42	DG	81	LYS	3.8
52	BT	135	ALA	3.8
25	AZ	371	THR	3.8
55	BW	6	ILE	3.8
36	DA	654(P)	C	3.8
40	BE	90	THR	3.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
43	BH	41	MET	3.8
58	BZ	174	VAL	3.8
43	DH	40	GLU	3.8
46	BN	43	THR	3.8
42	DG	113	ARG	3.8
35	D9	15	LYS	3.7
36	BA	654(M)	C	3.7
36	DA	654(Q)	C	3.7
58	DZ	78	LYS	3.7
42	DG	86	MET	3.7
13	AM	84	ILE	3.7
13	CM	124	PRO	3.7
9	AI	96	LEU	3.7
25	CZ	362	VAL	3.7
7	AG	78	ARG	3.7
36	BA	2795	G	3.7
52	DT	136	GLN	3.7
36	DA	1062	G	3.7
41	DF	101	LEU	3.7
51	DS	60	GLY	3.7
29	D3	12	PRO	3.7
25	CZ	326	GLU	3.7
57	BY	61	ILE	3.7
54	BV	7	THR	3.7
36	BA	1053	C	3.7
10	AJ	37	PRO	3.7
56	DX	70	LEU	3.7
36	DA	885	C	3.6
38	BC	94	VAL	3.6
53	BU	79	PHE	3.6
43	DH	47	GLU	3.6
58	BZ	97	GLU	3.6
46	DN	44	PRO	3.6
58	BZ	112	ARG	3.6
36	DA	654(B)	C	3.6
11	CK	129	SER	3.6
25	CZ	130	TYR	3.6
40	BE	107	THR	3.6
43	BH	30	LYS	3.6
58	DZ	104	PHE	3.6
58	DZ	98	MET	3.6
43	BH	171	LEU	3.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
36	DA	158	U	3.6
40	DE	69	LYS	3.6
1	AA	90	U	3.6
57	BY	36	ALA	3.6
57	DY	75	ILE	3.5
57	BY	93	GLY	3.5
19	CS	28	LYS	3.5
52	DT	138	ALA	3.5
58	DZ	148	ASP	3.5
36	DA	1077	A	3.5
57	DY	80	GLY	3.5
58	BZ	4	ARG	3.5
25	CZ	212	THR	3.5
42	DG	2	PRO	3.5
25	CZ	132	VAL	3.5
30	B4	13	ARG	3.5
31	B5	47	PRO	3.5
4	AD	44	GLY	3.5
57	BY	86	ARG	3.5
58	DZ	119	GLU	3.5
11	CK	11	LYS	3.4
43	DH	89	ILE	3.4
52	BT	2	ASN	3.4
54	BV	74	LYS	3.4
1	CA	83	U	3.4
42	BG	30	GLU	3.4
54	BV	65	GLY	3.4
25	AZ	17	ILE	3.4
36	DA	2803	C	3.4
36	DA	157	U	3.4
31	D5	37	LYS	3.4
25	AZ	124	ARG	3.4
36	DA	884	C	3.4
50	DR	115	GLU	3.4
9	AI	95	LYS	3.4
43	BH	89	ILE	3.4
36	DA	156	U	3.4
43	DH	46	GLU	3.4
25	AZ	98	GLN	3.4
13	AM	62	ASN	3.4
25	AZ	161	TYR	3.4
12	AL	28	LYS	3.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
10	CJ	73	ASP	3.3
58	DZ	172	ALA	3.3
21	CU	23	PRO	3.3
38	BC	90	GLY	3.3
41	BF	40	GLN	3.3
52	DT	39	ARG	3.3
32	D6	46	HIS	3.3
43	DH	39	PRO	3.3
58	BZ	161	VAL	3.3
25	AZ	120	ILE	3.3
49	BQ	62	GLY	3.3
24	CY	72	C	3.3
24	CY	75	C	3.3
36	BA	654(P)	C	3.3
36	DA	1046	A	3.3
25	AZ	139	ASP	3.2
40	BE	106	GLY	3.2
46	BN	139	GLU	3.2
43	DH	170	ARG	3.2
57	DY	72	VAL	3.2
25	CZ	76	HIS	3.2
38	DC	1	PRO	3.2
16	CP	84	ALA	3.2
58	BZ	116	VAL	3.2
36	DA	2310	A	3.2
54	BV	17	GLY	3.2
42	DG	35	GLU	3.2
55	BW	112	GLY	3.2
43	DH	32	GLU	3.2
55	BW	92	ARG	3.2
58	DZ	120	ILE	3.2
11	CK	13	GLN	3.2
25	CZ	107	SER	3.2
36	BA	654(B)	C	3.2
36	BA	1066	U	3.2
53	BU	68	ALA	3.2
40	BE	87	GLU	3.2
31	B5	26	THR	3.2
36	BA	654(R)	C	3.2
52	DT	2	ASN	3.2
25	AZ	376	LYS	3.2
11	CK	128	ALA	3.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
42	BG	49	ASP	3.1
58	DZ	112	ARG	3.1
36	BA	2796	U	3.1
43	BH	61	HIS	3.1
25	AZ	237	VAL	3.1
9	AI	66	ARG	3.1
25	AZ	101	GLY	3.1
48	BP	74	GLU	3.1
25	AZ	142	ASP	3.1
36	DA	1068	G	3.1
25	CZ	129	PRO	3.1
43	DH	97	ARG	3.1
38	DC	112	ALA	3.1
54	DV	64	HIS	3.1
25	CZ	173	GLY	3.1
10	CJ	79	ARG	3.1
22	CW	36	A	3.1
36	BA	1509	C	3.1
38	DC	127	LEU	3.1
34	B8	46	ARG	3.1
36	BA	654(F)	C	3.1
34	D8	13	ARG	3.1
38	DC	122	ALA	3.1
58	DZ	139	VAL	3.1
54	BV	97	LYS	3.1
34	D8	14	VAL	3.0
19	AS	10	PHE	3.0
57	BY	17	SER	3.0
36	DA	1065	U	3.0
46	DN	119	ARG	3.0
19	CS	82	GLY	3.0
43	DH	20	ALA	3.0
53	DU	118	GLY	3.0
25	CZ	79	HIS	3.0
25	AZ	350	THR	3.0
41	DF	190	GLU	3.0
12	CL	128	ALA	3.0
1	CA	89	C	3.0
36	DA	2794	C	3.0
41	DF	191	ARG	3.0
56	BX	79	ALA	3.0
24	AY	15	G	3.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
43	BH	51	ARG	3.0
32	B6	22	ALA	3.0
43	DH	132	ARG	3.0
30	B4	31	ILE	3.0
29	B3	12	PRO	3.0
29	D3	2	PRO	3.0
41	BF	181	LEU	3.0
41	DF	12	LEU	3.0
7	CG	115	ARG	3.0
43	DH	134	SER	3.0
41	DF	1	MET	3.0
32	D6	54	ILE	3.0
38	BC	126	LYS	3.0
54	BV	13	ARG	3.0
54	DV	62	LEU	2.9
25	CZ	98	GLN	2.9
57	DY	2	ARG	2.9
19	AS	82	GLY	2.9
43	DH	21	PRO	2.9
43	DH	85	LYS	2.9
51	DS	87	PHE	2.9
25	CZ	80	VAL	2.9
10	CJ	5	ARG	2.9
30	B4	42	PHE	2.9
50	DR	33	ARG	2.9
41	DF	16	GLY	2.9
25	CZ	325	LYS	2.9
36	DA	1115	G	2.9
36	BA	2794	C	2.9
19	CS	29	ARG	2.9
42	BG	2	PRO	2.9
57	DY	6	HIS	2.9
25	CZ	201	GLU	2.9
7	CG	154	TYR	2.9
25	AZ	104	LEU	2.9
17	CQ	50	LYS	2.9
25	AZ	99	MET	2.9
54	BV	40	LEU	2.9
41	DF	199	TRP	2.9
2	CB	96	ARG	2.9
58	DZ	4	ARG	2.9
36	DA	2804	C	2.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
29	B3	11	SER	2.8
43	BH	85	LYS	2.8
25	CZ	134	PHE	2.8
25	AZ	318	ALA	2.8
35	B9	1	MET	2.8
41	BF	52	LYS	2.8
46	BN	72	TYR	2.8
36	DA	1509	C	2.8
36	BA	1077	A	2.8
54	DV	94	LEU	2.8
25	CZ	125	GLN	2.8
21	AU	26	LYS	2.8
1	CA	1029	C	2.8
25	CZ	68	VAL	2.8
43	BH	35	VAL	2.8
27	B1	23	LYS	2.8
36	BA	2207	G	2.8
58	BZ	117	LEU	2.8
32	B6	37	ARG	2.8
58	DZ	43	GLU	2.8
32	D6	42	TRP	2.8
54	BV	66	ARG	2.8
32	B6	54	ILE	2.8
25	CZ	216	ASP	2.8
57	DY	86	ARG	2.8
57	DY	8	LYS	2.8
10	AJ	72	VAL	2.8
29	B3	13	ILE	2.8
57	DY	92	ASN	2.8
58	DZ	159	PRO	2.8
3	CC	174	PRO	2.8
52	BT	132	LYS	2.8
42	BG	26	GLN	2.8
58	BZ	127	LYS	2.7
7	CG	85	TYR	2.7
19	AS	39	THR	2.7
25	CZ	121	LEU	2.7
58	DZ	117	LEU	2.7
10	CJ	9	ARG	2.7
58	DZ	165	VAL	2.7
36	DA	1174	A	2.7
43	BH	114	VAL	2.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
54	DV	97	LYS	2.7
43	DH	124	GLU	2.7
36	BA	654(S)	G	2.7
54	DV	70	ILE	2.7
57	BY	95	LYS	2.7
43	BH	88	LEU	2.7
55	BW	89	ALA	2.7
25	CZ	104	LEU	2.7
58	BZ	67	LEU	2.7
25	AZ	128	VAL	2.7
57	DY	28	LYS	2.7
58	BZ	173	ALA	2.7
41	DF	208	GLY	2.7
19	AS	12	ASP	2.7
2	CB	227	GLY	2.7
43	BH	155	SER	2.7
36	BA	2802	G	2.7
24	CY	58	A	2.7
43	BH	33	LEU	2.7
1	CA	90	U	2.7
57	DY	41	GLY	2.7
58	BZ	172	ALA	2.7
25	CZ	230	THR	2.7
43	BH	74	ASN	2.7
10	AJ	73	ASP	2.7
58	BZ	160	GLY	2.7
1	CA	79	G	2.7
5	CE	154	GLY	2.7
58	BZ	106	GLY	2.7
58	DZ	5	LEU	2.7
58	BZ	123	ASP	2.7
24	AY	72	C	2.7
48	DP	15	ARG	2.7
53	DU	74	LEU	2.7
30	B4	4	GLY	2.7
21	AU	24	ARG	2.6
56	DX	90	GLU	2.6
57	DY	37	VAL	2.6
24	CY	45	G	2.6
25	CZ	27	LEU	2.6
48	BP	65	ARG	2.6
48	DP	79	ARG	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
49	BQ	104	PHE	2.6
54	BV	71	LEU	2.6
30	D4	32	TYR	2.6
46	BN	15	LEU	2.6
57	BY	19	LYS	2.6
1	CA	146	G	2.6
36	BA	1534	U	2.6
26	D0	40	GLN	2.6
29	D3	46	ASN	2.6
42	BG	48	GLU	2.6
54	DV	20	LEU	2.6
38	DC	75	LEU	2.6
36	BA	1104	C	2.6
41	BF	29	ASN	2.6
38	BC	58	VAL	2.6
43	BH	45	VAL	2.6
55	DW	102	HIS	2.6
1	AA	1137	C	2.6
36	DA	654(T)	C	2.6
43	BH	17	VAL	2.6
58	BZ	14	LYS	2.6
46	DN	51	PHE	2.6
48	BP	92	GLU	2.6
25	AZ	109	ALA	2.6
40	DE	76	ARG	2.6
19	CS	38	SER	2.6
36	BA	1174	A	2.5
38	BC	76	ALA	2.5
50	BR	116	LEU	2.5
58	DZ	174	VAL	2.5
30	B4	26	SER	2.5
2	CB	40	HIS	2.5
25	CZ	396	GLY	2.5
27	B1	22	GLY	2.5
36	BA	275	G	2.5
19	AS	22	LEU	2.5
48	DP	124	LYS	2.5
57	DY	3	VAL	2.5
29	D3	13	ILE	2.5
36	DA	2402	C	2.5
31	D5	55	ARG	2.5
25	CZ	17	ILE	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
40	BE	89	ASP	2.5
38	DC	107	TRP	2.5
10	CJ	35	SER	2.5
13	CM	26	GLY	2.5
38	DC	86	ALA	2.5
57	DY	22	GLY	2.5
6	CF	8	ILE	2.5
38	DC	153	ILE	2.5
23	AX	27	A	2.5
43	BH	102	ALA	2.5
36	DA	1740	G	2.5
54	BV	12	TYR	2.5
58	BZ	115	GLY	2.5
11	AK	12	ARG	2.5
49	DQ	63	LYS	2.5
46	DN	52	VAL	2.5
51	BS	44	LYS	2.5
25	CZ	111	GLY	2.5
57	BY	37	VAL	2.5
58	DZ	113	ALA	2.5
13	AM	43	THR	2.5
25	CZ	236	THR	2.5
58	DZ	137	ILE	2.5
36	BA	1074	G	2.4
25	AZ	141	VAL	2.4
11	AK	128	ALA	2.4
19	AS	61	TYR	2.4
38	BC	104	LEU	2.4
25	CZ	103	ILE	2.4
48	DP	80	TYR	2.4
25	CZ	75	ARG	2.4
54	DV	19	LYS	2.4
43	BH	96	ALA	2.4
57	BY	15	VAL	2.4
25	CZ	131	ILE	2.4
46	DN	79	PRO	2.4
55	BW	94	ASP	2.4
36	DA	654(R)	C	2.4
42	DG	118	ARG	2.4
58	BZ	121	HIS	2.4
25	CZ	305	ALA	2.4
19	CS	30	LEU	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
39	BD	262	ARG	2.4
36	BA	882	G	2.4
20	AT	72	LEU	2.4
54	DV	93	GLU	2.4
55	DW	105	VAL	2.4
57	DY	31	LEU	2.4
58	BZ	128	VAL	2.4
7	AG	85	TYR	2.4
37	BB	6	C	2.4
15	CO	89	GLY	2.4
25	CZ	112	PRO	2.4
25	AZ	110	ASP	2.4
52	BT	27	THR	2.4
51	DS	34	HIS	2.4
54	DV	40	LEU	2.4
58	DZ	15	PRO	2.4
30	B4	5	ILE	2.4
58	BZ	169	GLU	2.4
25	CZ	41	ASN	2.4
51	BS	95	HIS	2.4
19	AS	38	SER	2.4
25	CZ	156	ASP	2.4
58	DZ	26	GLY	2.4
9	CI	96	LEU	2.4
41	BF	8	GLN	2.4
36	BA	1065	U	2.4
57	DY	17	SER	2.4
25	CZ	40	PRO	2.4
25	CZ	372	VAL	2.4
31	B5	25	LEU	2.4
42	BG	159	VAL	2.4
25	CZ	334	PHE	2.4
36	DA	654(M)	C	2.4
40	BE	42	ASP	2.4
25	CZ	345	ARG	2.3
35	D9	20	HIS	2.3
38	DC	113	VAL	2.3
39	DD	175	LEU	2.3
57	DY	42	VAL	2.3
15	AO	69	TYR	2.3
36	DA	892	G	2.3
37	BB	51	G	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
43	DH	123	PHE	2.3
58	BZ	118	GLN	2.3
36	BA	2801	A	2.3
25	AZ	90	LYS	2.3
27	D1	23	LYS	2.3
55	BW	97	LYS	2.3
19	CS	12	ASP	2.3
48	DP	87	ASP	2.3
51	DS	23	ARG	2.3
25	CZ	105	VAL	2.3
1	AA	80	G	2.3
36	BA	352	G	2.3
36	BA	645	C	2.3
36	BA	2628	C	2.3
46	DN	101	HIS	2.3
57	DY	73	ARG	2.3
58	DZ	121	HIS	2.3
10	CJ	34	VAL	2.3
10	CJ	86	MET	2.3
36	DA	883	G	2.3
42	DG	24	GLY	2.3
43	BH	19	VAL	2.3
38	DC	111	ASP	2.3
58	BZ	88	PHE	2.3
10	AJ	4	ILE	2.3
35	D9	17	ILE	2.3
41	BF	24	LEU	2.3
2	AB	139	LYS	2.3
38	DC	146	GLY	2.3
10	CJ	39	PRO	2.3
39	DD	26	LYS	2.3
38	DC	96	GLY	2.3
20	AT	106	ALA	2.3
32	D6	29	ASN	2.3
25	CZ	16	THR	2.3
36	BA	271(N)	U	2.3
43	BH	53	GLU	2.3
36	BA	1073	A	2.3
53	DU	117	GLN	2.3
58	DZ	96	VAL	2.3
29	B3	40	THR	2.3
51	BS	40	ILE	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
7	AG	82	GLY	2.3
54	DV	30	GLY	2.3
54	BV	62	LEU	2.3
41	BF	35	GLU	2.3
9	CI	70	LYS	2.3
1	AA	470	C	2.3
36	DA	895	U	2.3
36	BA	2804	C	2.3
53	BU	80	ILE	2.3
38	DC	129	ARG	2.2
48	BP	33	ARG	2.2
56	DX	78	LYS	2.2
46	DN	33	LEU	2.2
9	AI	101	PHE	2.2
37	BB	29	A	2.2
26	D0	28	GLY	2.2
58	BZ	57	ILE	2.2
29	B3	48	GLU	2.2
2	AB	232	PRO	2.2
41	BF	10	PRO	2.2
55	BW	3	ALA	2.2
57	DY	95	LYS	2.2
4	CD	44	GLY	2.2
25	CZ	245	GLY	2.2
48	DP	95	VAL	2.2
25	CZ	319	SER	2.2
41	BF	15	SER	2.2
55	BW	88	ARG	2.2
25	AZ	212	THR	2.2
35	B9	36	GLN	2.2
48	BP	118	GLY	2.2
50	DR	117	VAL	2.2
24	CY	27	C	2.2
43	DH	110	SER	2.2
15	CO	72	ARG	2.2
25	CZ	67	HIS	2.2
31	D5	11	THR	2.2
46	DN	72	TYR	2.2
36	BA	1041	C	2.2
54	BV	11	GLN	2.2
25	AZ	360	GLU	2.2
54	DV	98	GLU	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
25	CZ	175	ALA	2.2
25	CZ	183	HIS	2.2
8	AH	1	MET	2.2
19	AS	81	ARG	2.2
32	B6	35	GLU	2.2
58	DZ	145	GLU	2.2
10	AJ	5	ARG	2.2
55	DW	93	ALA	2.2
54	DV	12	TYR	2.2
58	DZ	99	TYR	2.2
10	AJ	39	PRO	2.2
20	AT	9	ASN	2.2
10	AJ	6	ILE	2.2
58	DZ	19	ARG	2.2
38	BC	89	ALA	2.2
36	BA	157	U	2.2
43	BH	60	ARG	2.2
50	BR	117	VAL	2.2
27	B1	48	LYS	2.2
18	AR	20	ALA	2.2
20	AT	77	ALA	2.2
25	AZ	135	MET	2.2
18	CR	88	LYS	2.2
41	DF	24	LEU	2.2
48	BP	149	GLU	2.2
53	BU	118	GLY	2.2
56	DX	79	ALA	2.2
28	D2	8	LYS	2.2
25	AZ	396	GLY	2.2
36	DA	2893	G	2.2
54	DV	71	LEU	2.2
1	AA	82	U	2.2
43	DH	41	MET	2.1
7	CG	156	TRP	2.1
38	BC	130	ILE	2.1
14	AN	28	GLY	2.1
36	DA	927	G	2.1
50	BR	51	LEU	2.1
52	DT	132	LYS	2.1
41	BF	114	VAL	2.1
25	AZ	370	PHE	2.1
25	CZ	174	SER	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
3	CC	204	LEU	2.1
13	CM	102	ARG	2.1
32	D6	39	TYR	2.1
56	DX	5	TYR	2.1
30	D4	24	THR	2.1
32	B6	46	HIS	2.1
43	BH	31	GLY	2.1
54	DV	41	GLY	2.1
25	CZ	74	LYS	2.1
46	BN	23	LEU	2.1
1	AA	204	U	2.1
25	CZ	243	GLU	2.1
46	DN	37	LYS	2.1
57	BY	85	VAL	2.1
58	DZ	175	VAL	2.1
10	CJ	98	ILE	2.1
16	CP	19	ILE	2.1
52	DT	133	GLU	2.1
1	AA	83	U	2.1
25	CZ	172	ARG	2.1
25	CZ	204	ASP	2.1
54	BV	14	VAL	2.1
54	DV	1	MET	2.1
29	B3	46	ASN	2.1
46	BN	21	LYS	2.1
19	AS	37	ARG	2.1
57	DY	39	VAL	2.1
56	BX	27	THR	2.1
1	CA	1257	U	2.1
42	BG	158	ALA	2.1
38	DC	118	ASP	2.1
36	BA	2892	A	2.1
36	DA	1033	U	2.1
48	DP	123	LEU	2.1
48	DP	126	VAL	2.1
57	DY	85	VAL	2.1
7	CG	86	GLN	2.1
36	DA	889	C	2.1
36	DA	2896	C	2.1
54	DV	6	LYS	2.1
55	BW	111	HIS	2.1
50	BR	81	ASP	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
58	BZ	170	THR	2.1
31	D5	58	LEU	2.1
40	DE	91	VAL	2.1
24	CY	59	A	2.1
36	DA	1494	A	2.1
52	DT	3	ARG	2.1
43	DH	131	VAL	2.1
25	CZ	237	VAL	2.1
34	B8	65	GLU	2.1
36	BA	155	U	2.1
48	DP	132	LYS	2.1
29	B3	47	VAL	2.1
38	DC	147	PHE	2.1
57	DY	74	PRO	2.1
58	DZ	66	SER	2.1
25	AZ	175	ALA	2.1
38	BC	91	ALA	2.1
40	BE	76	ARG	2.1
49	BQ	33	GLY	2.1
57	DY	67	LEU	2.1
25	AZ	224	PRO	2.0
9	AI	17	VAL	2.0
36	BA	502	A	2.0
48	DP	144	GLU	2.0
2	CB	36	ARG	2.0
36	DA	271(G)	C	2.0
36	DA	2628	C	2.0
58	BZ	66	SER	2.0
3	AC	81	GLY	2.0
9	CI	52	ALA	2.0
20	CT	76	ALA	2.0
38	BC	127	LEU	2.0
40	DE	66	HIS	2.0
21	AU	25	LYS	2.0
34	B8	29	LYS	2.0
40	BE	182	LEU	2.0
36	DA	1085	A	2.0
2	AB	229	VAL	2.0
25	CZ	290	LEU	2.0
39	BD	36	PRO	2.0
43	BH	113	VAL	2.0
43	DH	133	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
19	AS	27	GLU	2.0
25	AZ	241	ARG	2.0
58	DZ	54	HIS	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
24	H2U	CY	16	20/21	0.53	0.47	199,199,200,200	0
24	H2U	AY	17	20/21	0.58	0.40	195,199,199,200	0
24	H2U	AY	16	20/21	0.62	0.66	198,199,200,200	0
24	PSU	CY	55	20/21	0.66	0.31	172,180,180,180	0
24	H2U	CY	17	20/21	0.67	0.48	196,199,200,200	0
24	H2U	CY	20	20/21	0.72	0.18	195,198,200,200	0
24	PSU	AY	55	20/21	0.76	0.19	171,180,181,182	0
24	7MG	CY	46	24/25	0.78	0.24	186,189,190,190	0
24	7MG	AY	46	24/25	0.78	0.22	186,189,190,190	0
24	H2U	AY	20	20/21	0.83	0.21	196,198,200,200	0
24	5MU	AY	54	21/22	0.85	0.23	164,166,168,171	0
24	5MU	CY	54	21/22	0.87	0.35	165,167,168,171	0
24	YG	CY	37	39/40	0.90	0.26	77,108,122,122	0
24	YG	AY	37	39/40	0.90	0.30	77,108,121,122	0

## 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
61	MG	CY	101	1/1	-0.22	2.02	181,181,181,181	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	AY	101	1/1	0.32	0.24	109,109,109,109	0
62	GDP	CZ	501	28/28	0.84	0.19	117,126,128,128	0
63	KIR	AZ	502	57/57	0.85	0.46	98,106,116,117	0
62	GDP	AZ	501	28/28	0.89	0.20	117,124,126,126	0
63	KIR	CZ	502	57/57	0.89	0.44	99,106,116,117	0
59	PAR	AA	1601	42/42	0.94	0.20	40,44,48,49	0
59	PAR	CA	1601	42/42	0.94	0.21	41,46,64,65	0
60	ZN	D4	101	1/1	0.94	0.12	133,133,133,133	0
60	ZN	D9	101	1/1	0.96	0.09	126,126,126,126	0
60	ZN	B4	101	1/1	0.97	0.15	97,97,97,97	0
60	ZN	CN	101	1/1	0.98	0.19	100,100,100,100	0
60	ZN	AD	301	1/1	0.99	0.28	52,52,52,52	0
60	ZN	B9	101	1/1	0.99	0.18	113,113,113,113	0
60	ZN	CD	301	1/1	0.99	0.29	56,56,56,56	0
60	ZN	AN	101	1/1	1.00	0.16	45,45,45,45	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.