Full wwPDB EM Validation Report ⓘ

Mar 9, 2024 – 02:37 PM EST

PDB ID	:	6O2S
EMDB ID	:	EMD-0614
Title	:	Deacetylated Microtubules
Authors	:	Eshun-Wilson, L.; Zhang, R.; Portran, D.; Nachury, M.V.; Toso, D.; Lohr, T.; Vendruscolo, M.; Bonomi, M.; Fraser, J.S.; Nogales, E.
Deposited on	:	2019-02-24
Resolution	:	4.00 Å(reported)
Based on initial model	:	3JAR

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

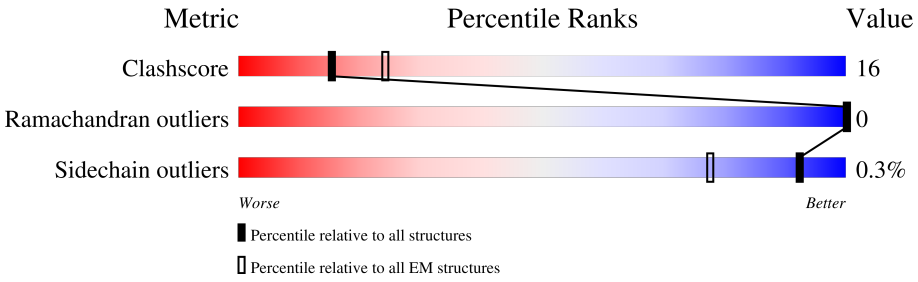
EMDB validation analysis	:	0.0.1.dev70
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (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:
ELECTRON MICROSCOPY

The reported resolution of this entry is 4.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=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 <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1A	451	19% 74% 22% ·
1	1B	451	18% 74% 22% ·
1	1C	451	19% 73% 23% ·
1	1D	451	19% 73% 23% ·
1	1E	451	20% 73% 23% ·
1	1F	451	24% 73% 23% ·
1	1G	451	26% 74% 22% ·
1	1I	451	26% 73% 23% ·

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Mol	Chain	Length	Quality of chain
1	1J	451	30% 73% 23%
1	1K	451	37% 73% 23%
1	1L	451	35% 75% 21%
1	1M	451	85% 75% 22%
1	1N	451	27% 75% 22%
1	2A	451	22% 77% 19%
1	2B	451	17% 77% 19%
1	2C	451	17% 77% 19%
1	2D	451	18% 77% 19%
1	2E	451	15% 77% 19%
1	2F	451	21% 76% 20%
1	2G	451	21% 77% 19%
1	2I	451	22% 75% 21%
1	2J	451	21% 75% 21%
1	2K	451	18% 75% 21%
1	2L	451	19% 76% 20%
1	2M	451	20% 76% 20%
1	2N	451	34% 76% 20%
1	3A	451	35% 74% 22%
1	3B	451	34% 74% 22%
1	3C	451	32% 74% 22%
1	3D	451	28% 74% 22%
1	3E	451	29% 75% 21%
1	3F	451	31% 75% 22%
1	3G	451	33% 75% 21%

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Mol	Chain	Length	Quality of chain
1	3I	451	34% 74% 22%
1	3J	451	30% 75% 22%
1	3K	451	28% 74% 22%
1	3L	451	30% 75% 21%
1	3M	451	40% 75% 22%
1	3N	451	54% 75% 21%
1	4A	451	51% 80% 16%
1	4B	451	43% 80% 16%
1	4C	451	44% 80% 16%
1	4D	451	46% 80% 16%
1	4E	451	43% 80% 16%
1	4F	451	42% 80% 16%
1	4G	451	41% 80% 16%
1	4I	451	45% 80% 17%
1	4J	451	45% 80% 17%
1	4K	451	47% 79% 17%
1	4L	451	79% 80% 16%
1	4M	451	92% 80% 16%
1	4N	451	58% 81% 15%
2	1H	445	17% 73% 23%
2	1O	445	18% 74% 22%
2	1P	445	17% 74% 22%
2	1Q	445	17% 74% 22%
2	1R	445	24% 73% 23%
2	1S	445	30% 73% 24%

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Mol	Chain	Length	Quality of chain
2	1T	445	31% 73% 23%
2	1U	445	36% 73% 24%
2	1V	445	36% 73% 24%
2	1W	445	44% 72% 25%
2	1X	445	49% 72% 24%
2	1Y	445	62% 73% 23%
2	1Z	445	25% 73% 23%
2	2H	445	29% 71% 26%
2	2O	445	26% 71% 25%
2	2P	445	25% 71% 26%
2	2Q	445	23% 70% 26%
2	2R	445	24% 70% 26%
2	2S	445	23% 71% 26%
2	2T	445	23% 71% 25%
2	2U	445	24% 71% 25%
2	2V	445	23% 71% 25%
2	2W	445	21% 70% 26%
2	2X	445	28% 70% 26%
2	2Y	445	36% 72% 25%
2	2Z	445	37% 72% 25%
2	3H	445	72% 77% 20%
2	3O	445	65% 77% 20%
2	3P	445	51% 76% 20%
2	3Q	445	39% 77% 20%
2	3R	445	33% 77% 20%

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Mol	Chain	Length	Quality of chain
2	3S	445	36% 76% 20%
2	3T	445	34% 77% 20%
2	3U	445	31% 76% 20%
2	3V	445	33% 76% 20%
2	3W	445	32% 76% 21%
2	3X	445	44% 76% 20%
2	3Y	445	52% 77% 20%
2	3Z	445	87% 77% 19%
2	4H	445	32% 70% 26%
2	4O	445	31% 71% 26%
2	4P	445	32% 69% 27%
2	4Q	445	36% 69% 27%
2	4R	445	33% 69% 27%
2	4S	445	31% 69% 27%
2	4T	445	32% 69% 27%
2	4U	445	33% 69% 27%
2	4V	445	28% 70% 27%
2	4W	445	27% 70% 27%
2	4X	445	42% 69% 27%
2	4Y	445	91% 71% 25%
2	4Z	445	38% 71% 25%

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 354900 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Tubulin alpha-1B chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	1A	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	1B	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	1C	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	1D	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	1E	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	1F	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	1G	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	1I	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	1J	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	1K	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	1L	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	1M	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	1N	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	2A	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	2B	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	2C	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	2D	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	2E	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	2F	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	2G	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	2I	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	2J	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	2K	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	2L	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	2M	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	2N	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	3A	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	3B	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	3C	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	3D	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	3E	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	3F	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	3G	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	3I	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	3J	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	3K	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	3L	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	3M	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	3N	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4A	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4B	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4C	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4D	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4E	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4F	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4G	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4I	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4J	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4K	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4L	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4M	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		
1	4N	434	Total	C	N	O	S	0	0
			3396	2151	577	647	21		

- Molecule 2 is a protein called Tubulin beta chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1H	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	1O	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	1P	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	1Q	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	1R	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	1S	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	1T	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	1U	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	1V	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	1W	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	1X	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	1Y	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	1Z	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2H	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2O	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2P	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2Q	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2R	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2S	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2T	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2U	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2V	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2W	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2X	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2Y	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	2Z	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	3H	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	3O	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	3P	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	3Q	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	3R	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	3S	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	3T	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	3U	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	3V	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	3W	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	3X	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	3Y	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	3Z	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	4H	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	4O	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	4P	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	4Q	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	4R	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	4S	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	4T	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	4U	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		

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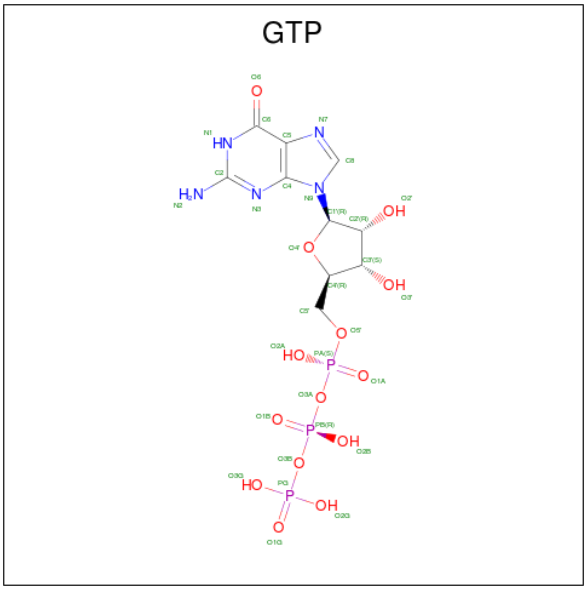
Mol	Chain	Residues	Atoms					AltConf	Trace
2	4V	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	4W	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	4X	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	4Y	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		
2	4Z	429	Total	C	N	O	S	0	0
			3368	2115	578	650	25		

- Molecule 3 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



Mol	Chain	Residues	Atoms					AltConf
3	1A	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	1B	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	1C	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	1D	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	1E	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	1F	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
3	1G	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	1I	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	1J	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	1K	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	1L	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	1M	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	1N	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2A	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2B	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2C	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2D	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2E	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2F	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2G	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2I	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2J	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2K	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2L	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2M	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	2N	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	3A	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
3	3B	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	3C	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	3D	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	3E	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	3F	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	3G	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	3I	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	3J	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	3K	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	3L	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	3M	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	3N	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	4A	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	4B	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	4C	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	4D	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	4E	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	4F	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	4G	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	4I	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	4J	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
3	4K	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	4L	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	4M	1	Total	C	N	O	P	0
			32	10	5	14	3	
3	4N	1	Total	C	N	O	P	0
			32	10	5	14	3	

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
4	1A	1	Total	Mg	0
			1	1	
4	1B	1	Total	Mg	0
			1	1	
4	1C	1	Total	Mg	0
			1	1	
4	1D	1	Total	Mg	0
			1	1	
4	1E	1	Total	Mg	0
			1	1	
4	1F	1	Total	Mg	0
			1	1	
4	1G	1	Total	Mg	0
			1	1	
4	1I	1	Total	Mg	0
			1	1	
4	1J	1	Total	Mg	0
			1	1	
4	1K	1	Total	Mg	0
			1	1	
4	1L	1	Total	Mg	0
			1	1	
4	1M	1	Total	Mg	0
			1	1	
4	1N	1	Total	Mg	0
			1	1	
4	2A	1	Total	Mg	0
			1	1	
4	2B	1	Total	Mg	0
			1	1	

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Mol	Chain	Residues	Atoms	AltConf
4	2C	1	Total Mg 1 1	0
4	2D	1	Total Mg 1 1	0
4	2E	1	Total Mg 1 1	0
4	2F	1	Total Mg 1 1	0
4	2G	1	Total Mg 1 1	0
4	2I	1	Total Mg 1 1	0
4	2J	1	Total Mg 1 1	0
4	2K	1	Total Mg 1 1	0
4	2L	1	Total Mg 1 1	0
4	2M	1	Total Mg 1 1	0
4	2N	1	Total Mg 1 1	0
4	3A	1	Total Mg 1 1	0
4	3B	1	Total Mg 1 1	0
4	3C	1	Total Mg 1 1	0
4	3D	1	Total Mg 1 1	0
4	3E	1	Total Mg 1 1	0
4	3F	1	Total Mg 1 1	0
4	3G	1	Total Mg 1 1	0
4	3I	1	Total Mg 1 1	0
4	3J	1	Total Mg 1 1	0
4	3K	1	Total Mg 1 1	0

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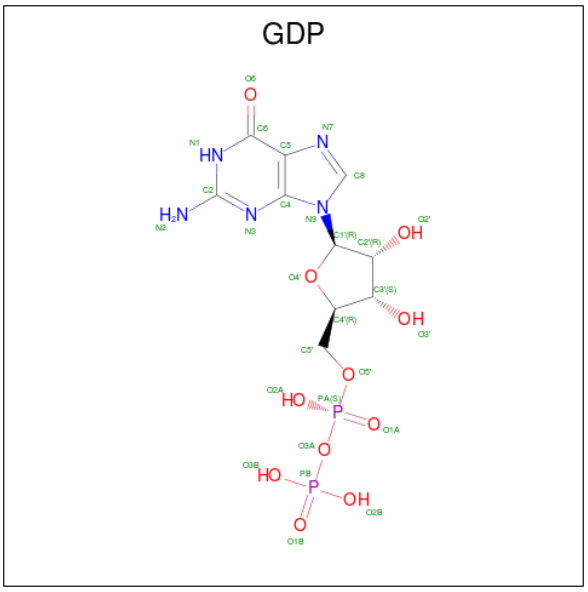
Mol	Chain	Residues	Atoms	AltConf
4	3L	1	Total Mg 1 1	0
4	3M	1	Total Mg 1 1	0
4	3N	1	Total Mg 1 1	0
4	4A	1	Total Mg 1 1	0
4	4B	1	Total Mg 1 1	0
4	4C	1	Total Mg 1 1	0
4	4D	1	Total Mg 1 1	0
4	4E	1	Total Mg 1 1	0
4	4F	1	Total Mg 1 1	0
4	4G	1	Total Mg 1 1	0
4	4I	1	Total Mg 1 1	0
4	4J	1	Total Mg 1 1	0
4	4K	1	Total Mg 1 1	0
4	4L	1	Total Mg 1 1	0
4	4M	1	Total Mg 1 1	0
4	4N	1	Total Mg 1 1	0

- Molecule 5 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$).



Mol	Chain	Residues	Atoms					AltConf
5	1H	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	1O	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	1P	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	1Q	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	1R	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	1S	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	1T	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	1U	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	1V	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	1W	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	1X	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	1Y	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	1Z	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	2H	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
5	2O	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	2P	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	2Q	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	2R	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	2S	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	2T	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	2U	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	2V	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	2W	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	2X	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	2Y	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	2Z	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	3H	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	3O	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	3P	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	3Q	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	3R	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	3S	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	3T	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	3U	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	3V	1	Total	C	N	O	P	0
			28	10	5	11	2	

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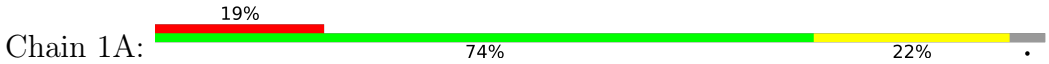
Mol	Chain	Residues	Atoms					AltConf
5	3W	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	3X	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	3Y	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	3Z	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4H	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4O	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4P	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4Q	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4R	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4S	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4T	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4U	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4V	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4W	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4X	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4Y	1	Total	C	N	O	P	0
			28	10	5	11	2	
5	4Z	1	Total	C	N	O	P	0
			28	10	5	11	2	

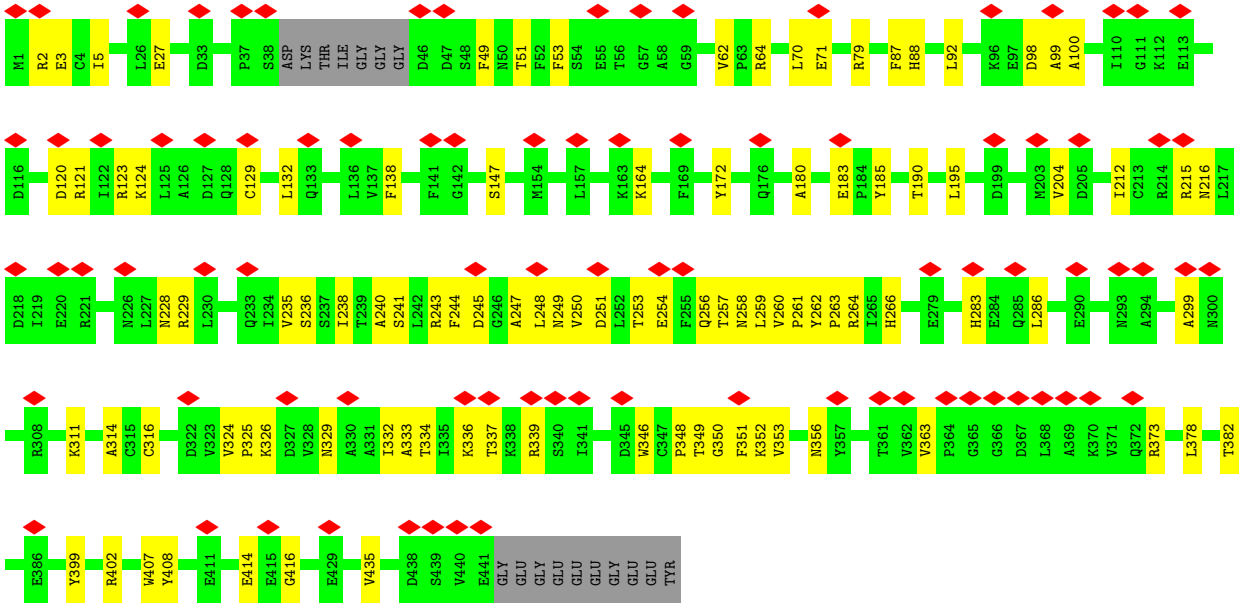
3 Residue-property plots (i)

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

• Molecule 1: Tubulin alpha-1B chain

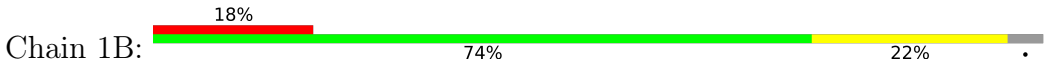
Chain 1A:

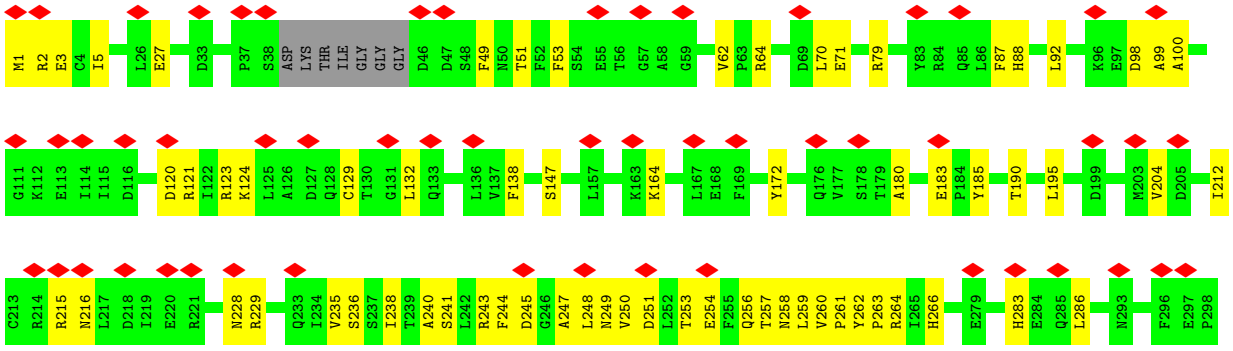


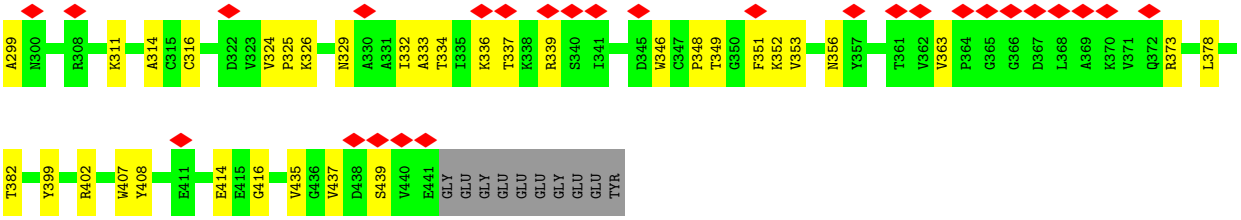


• Molecule 1: Tubulin alpha-1B chain

Chain 1B:

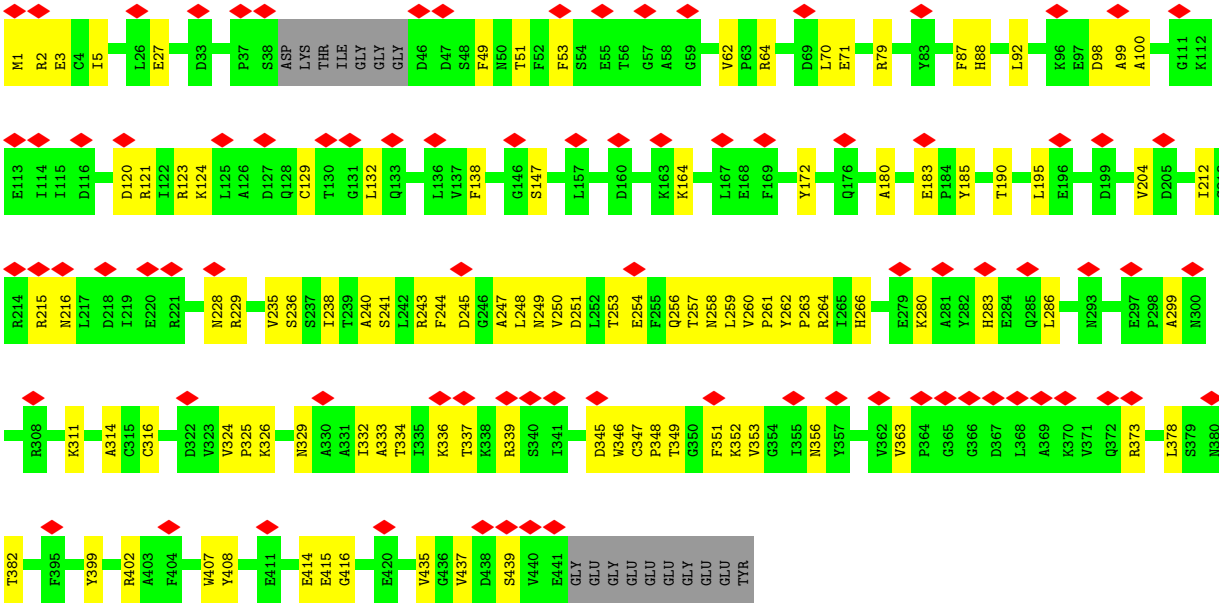






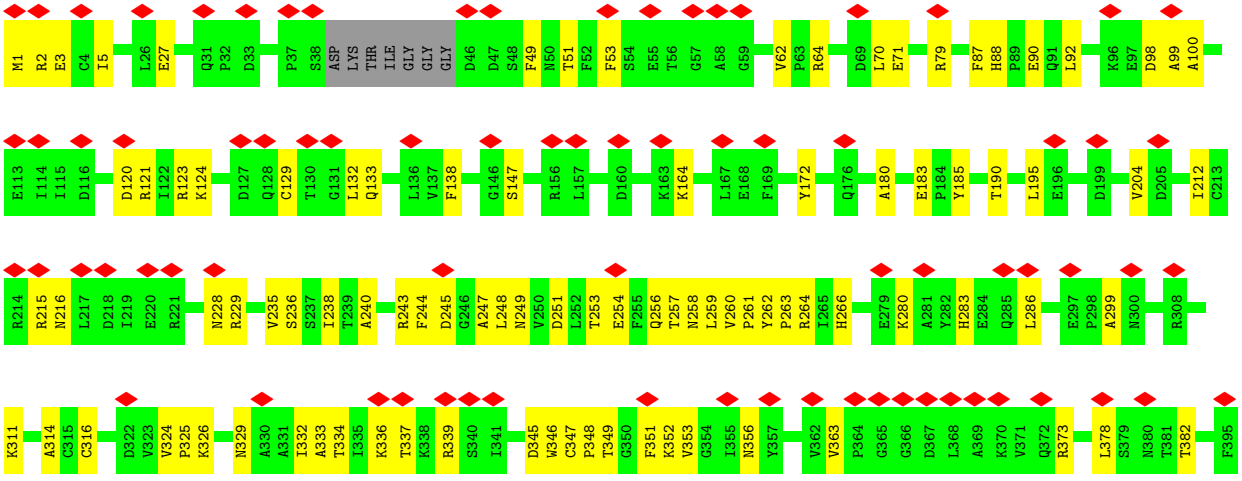
• Molecule 1: Tubulin alpha-1B chain

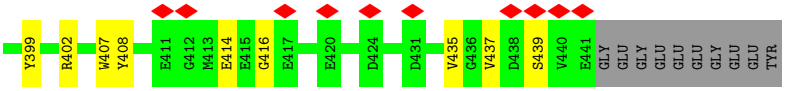
Chain 1C:



• Molecule 1: Tubulin alpha-1B chain

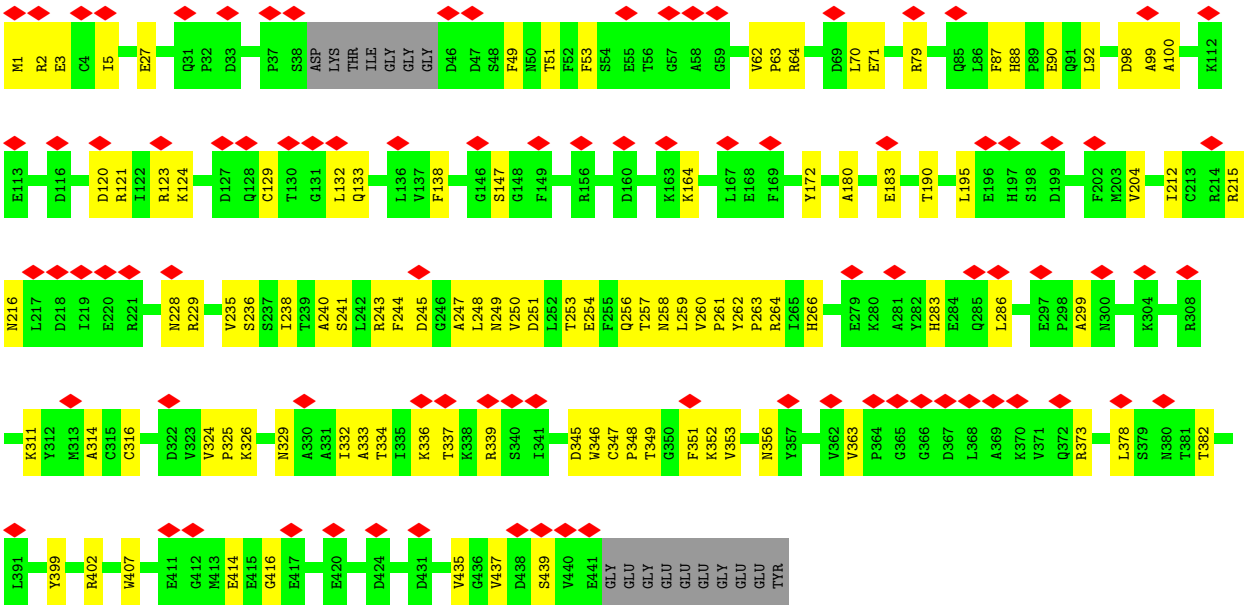
Chain 1D:





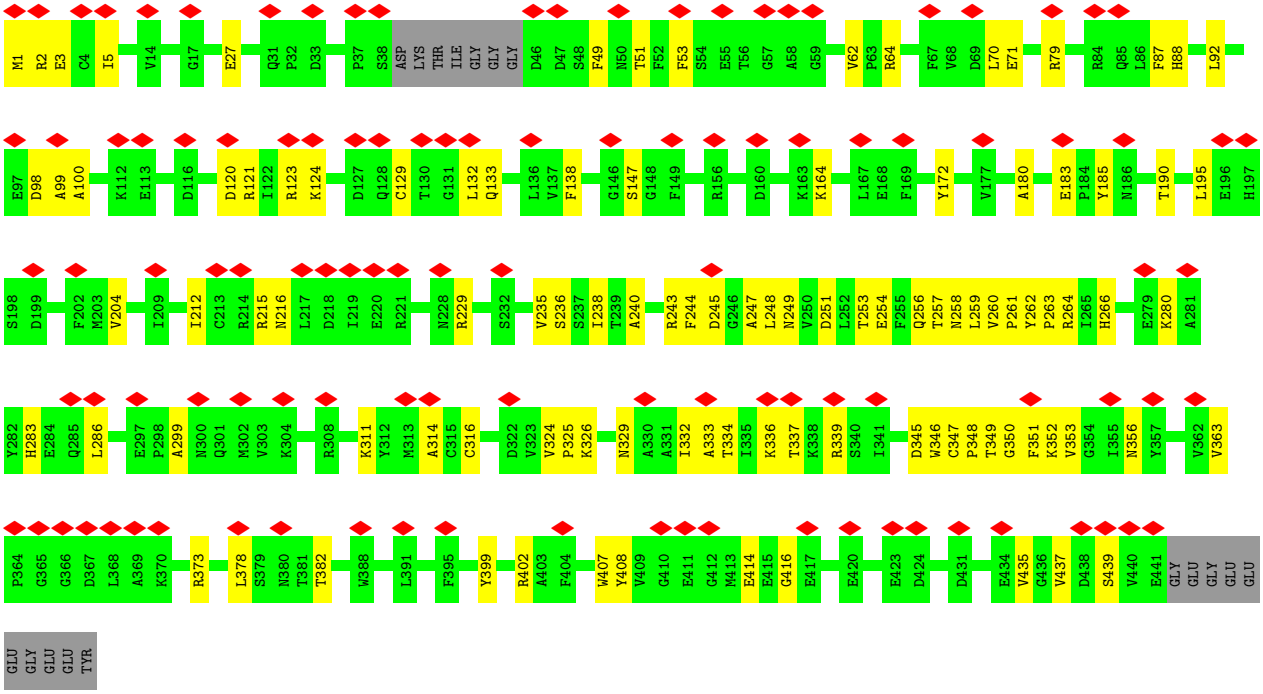
• Molecule 1: Tubulin alpha-1B chain

Chain 1E:



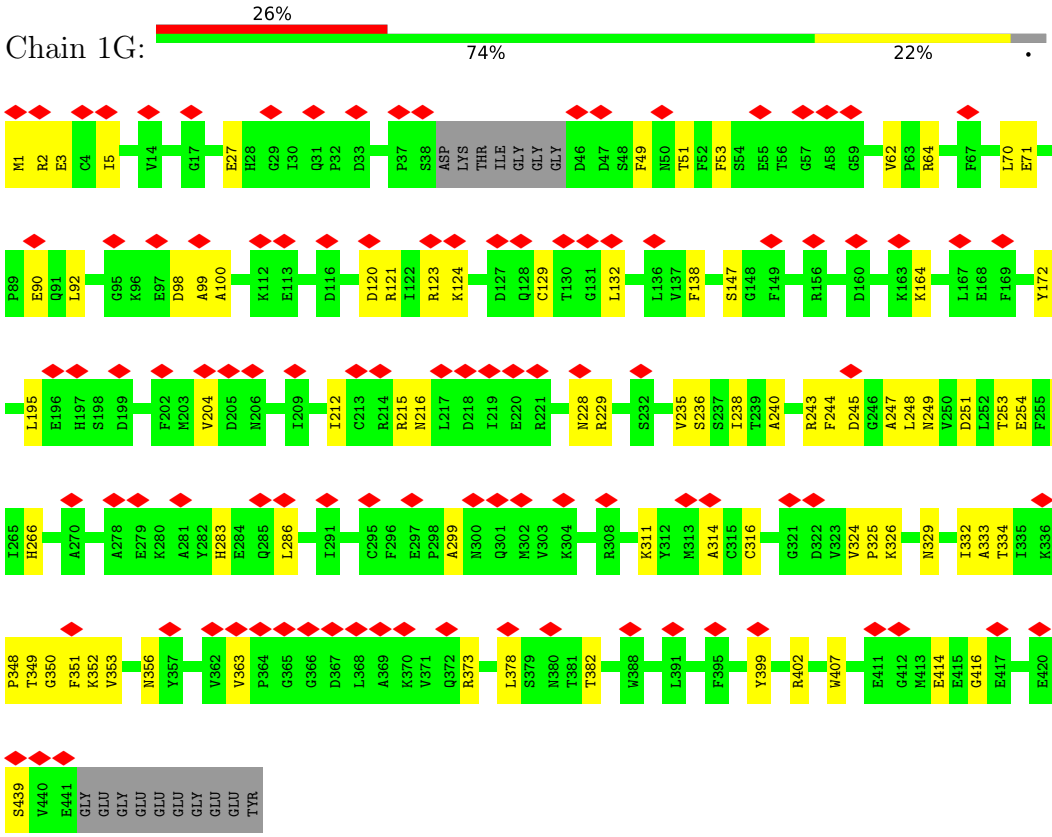
• Molecule 1: Tubulin alpha-1B chain

Chain 1F:



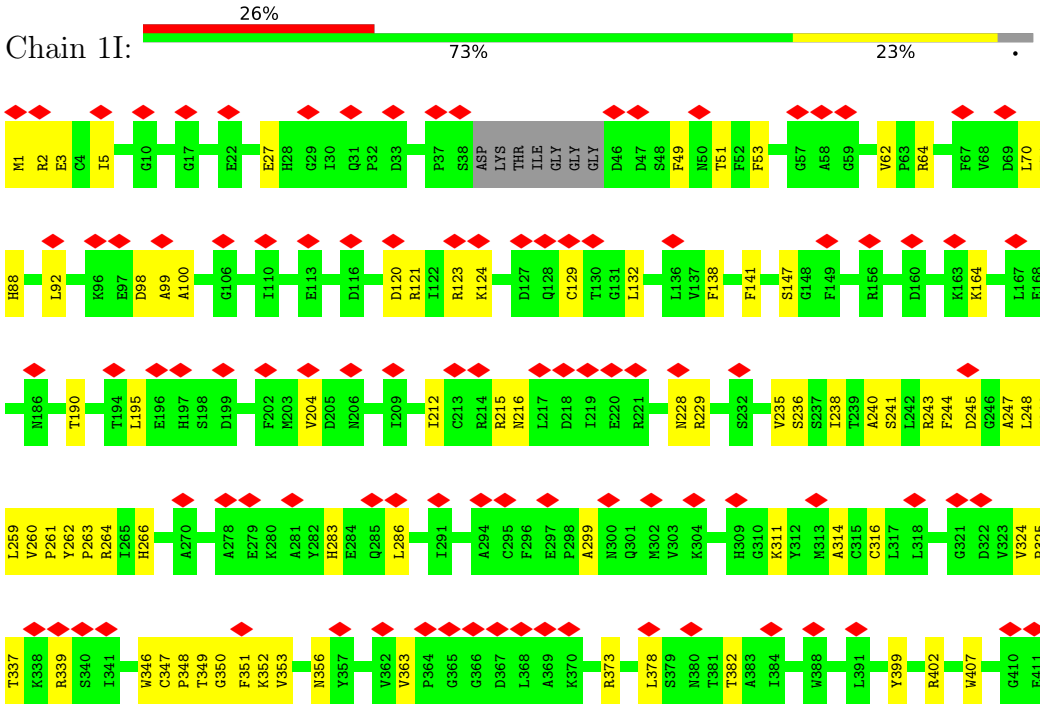
• Molecule 1: Tubulin alpha-1B chain

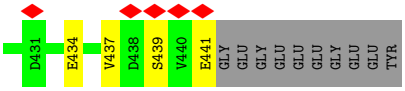
Chain 1G:



• Molecule 1: Tubulin alpha-1B chain

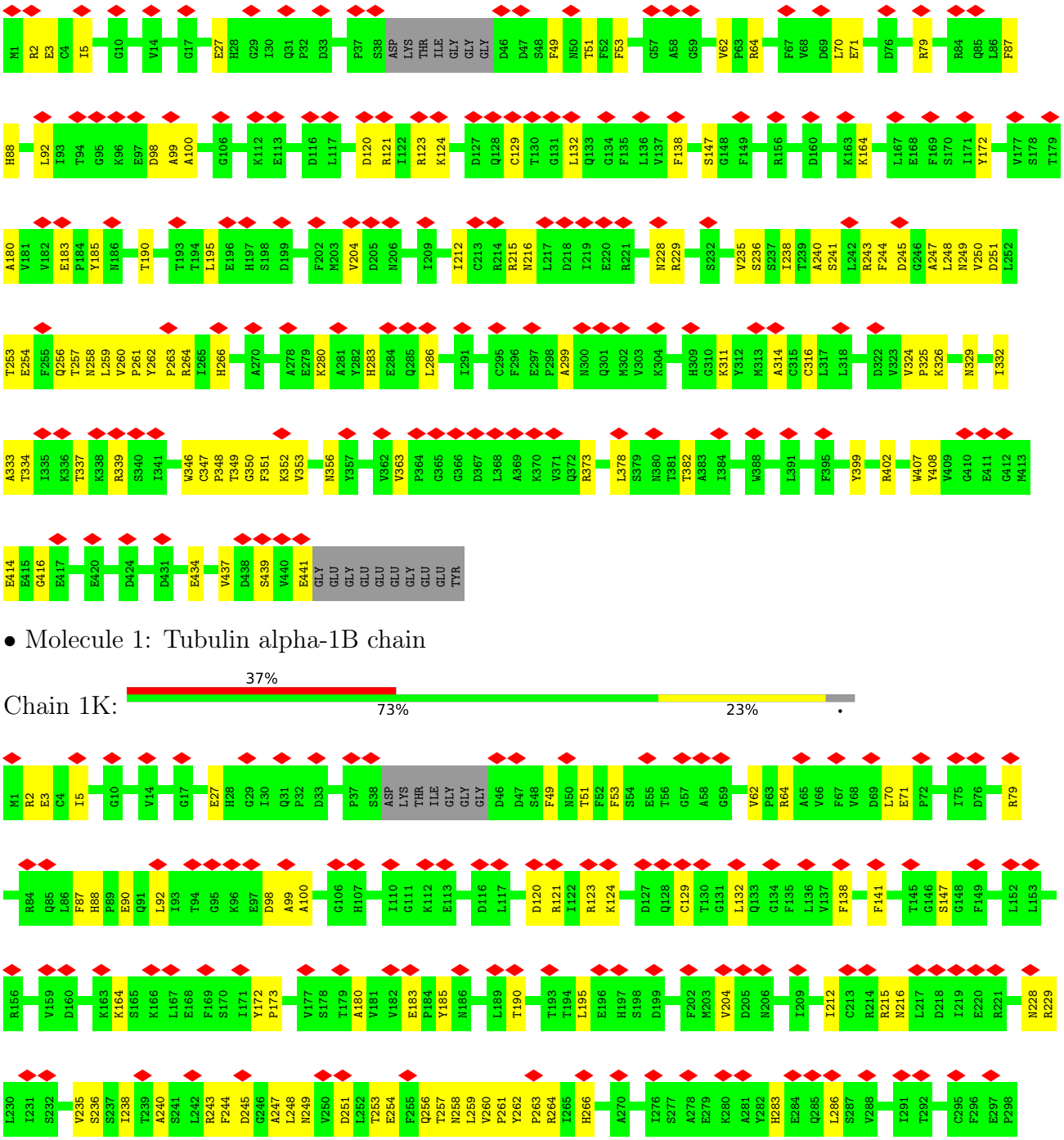
Chain 1I:





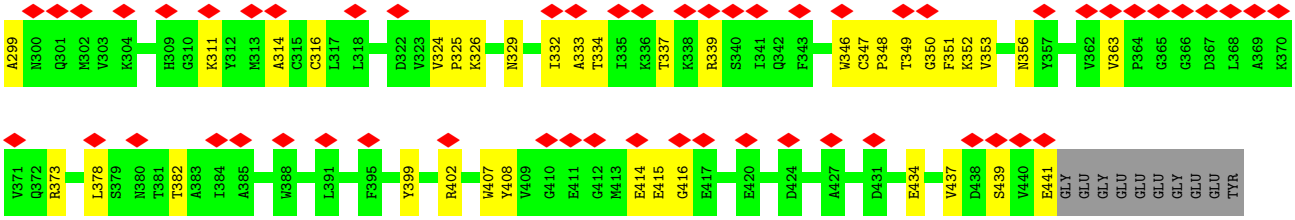
• Molecule 1: Tubulin alpha-1B chain

Chain 1J:



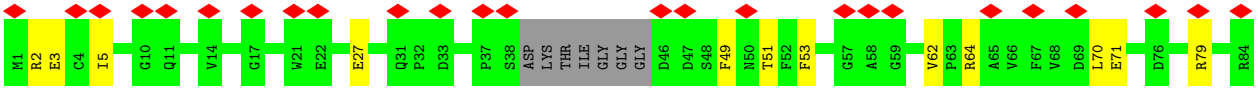
• Molecule 1: Tubulin alpha-1B chain

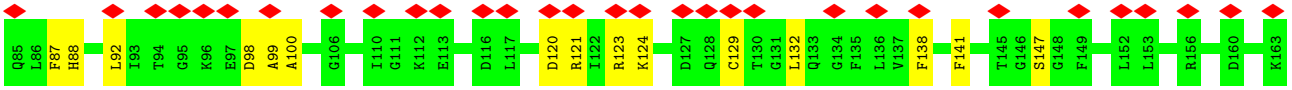
Chain 1K:

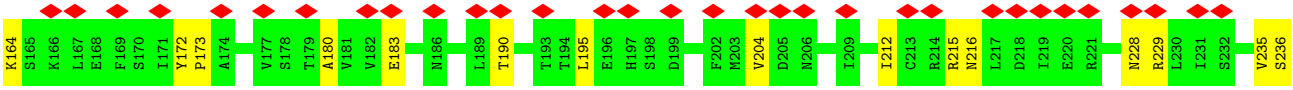


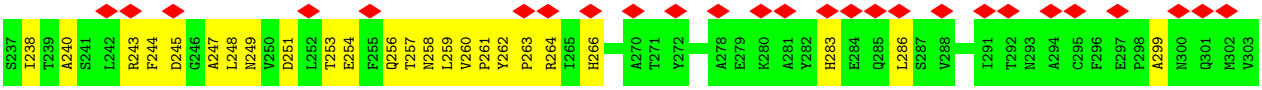
• Molecule 1: Tubulin alpha-1B chain

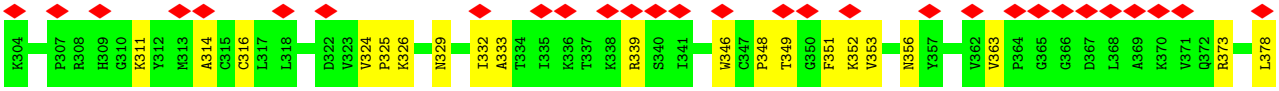
Chain 1L:

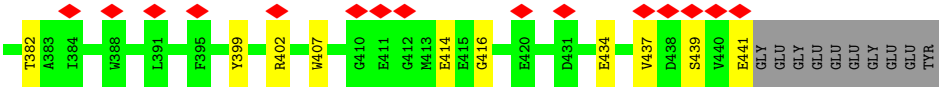






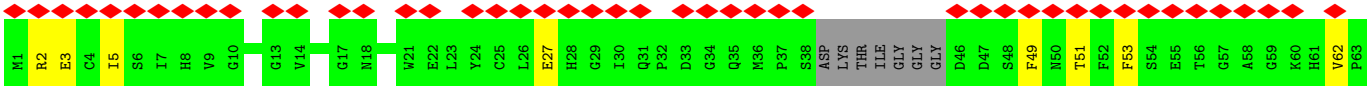


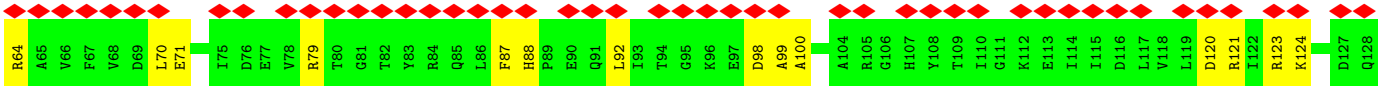


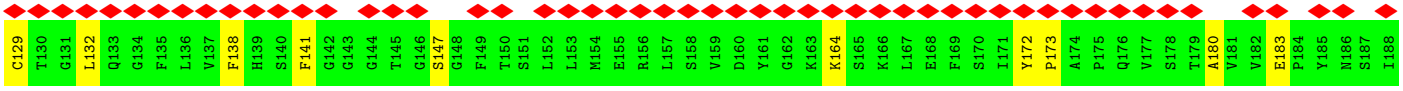


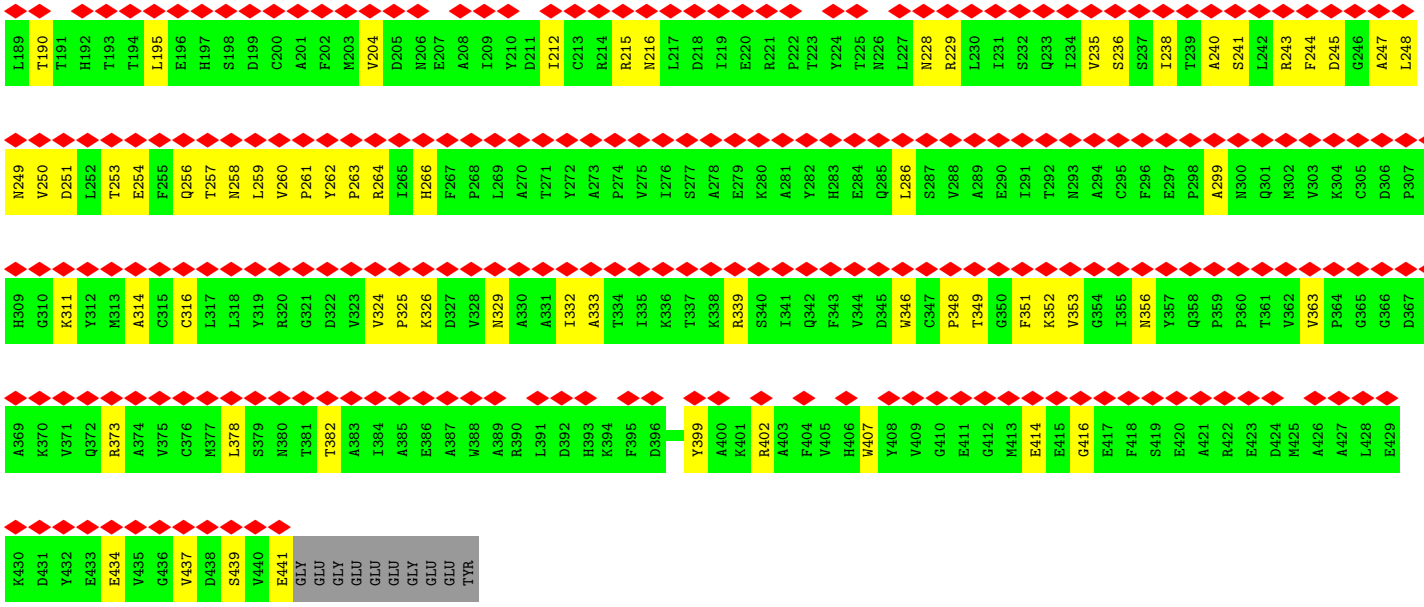
• Molecule 1: Tubulin alpha-1B chain

Chain 1M:



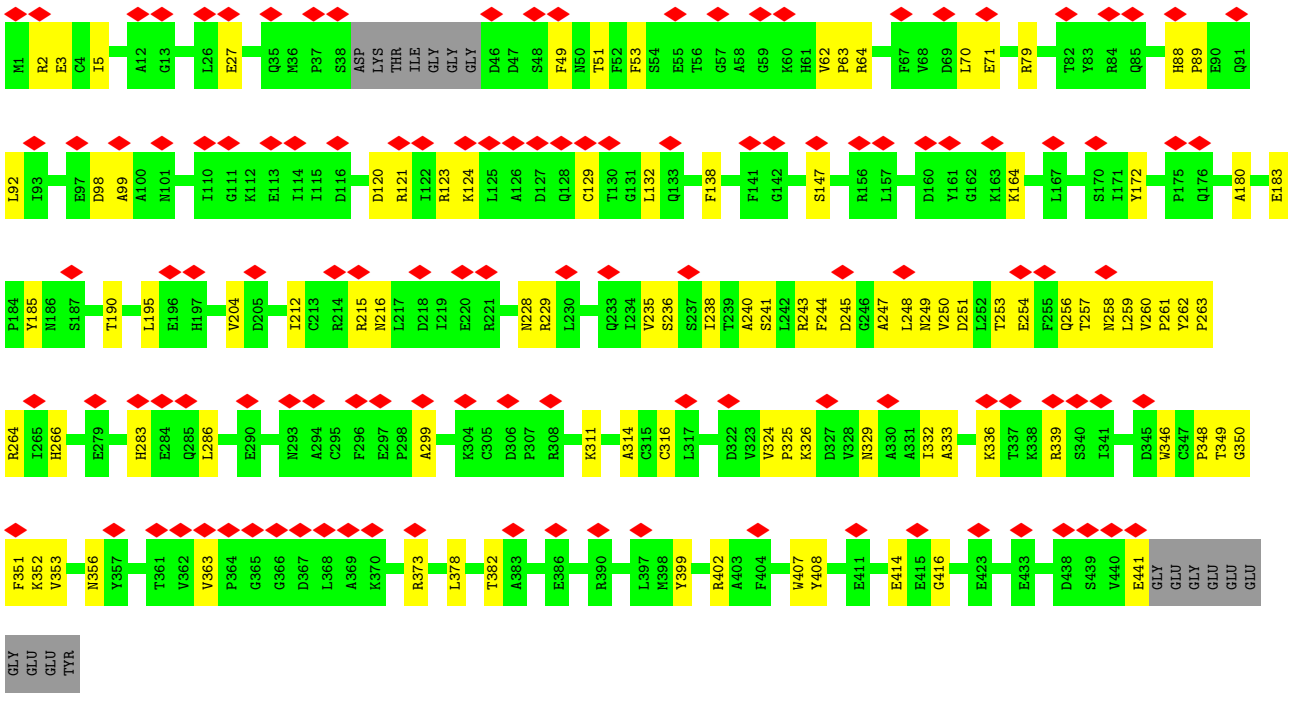






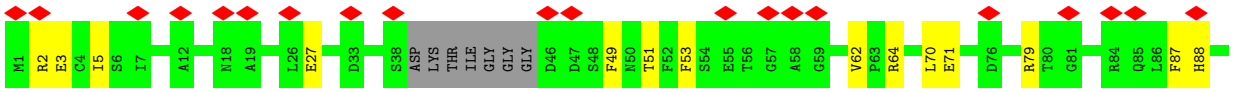
• Molecule 1: Tubulin alpha-1B chain

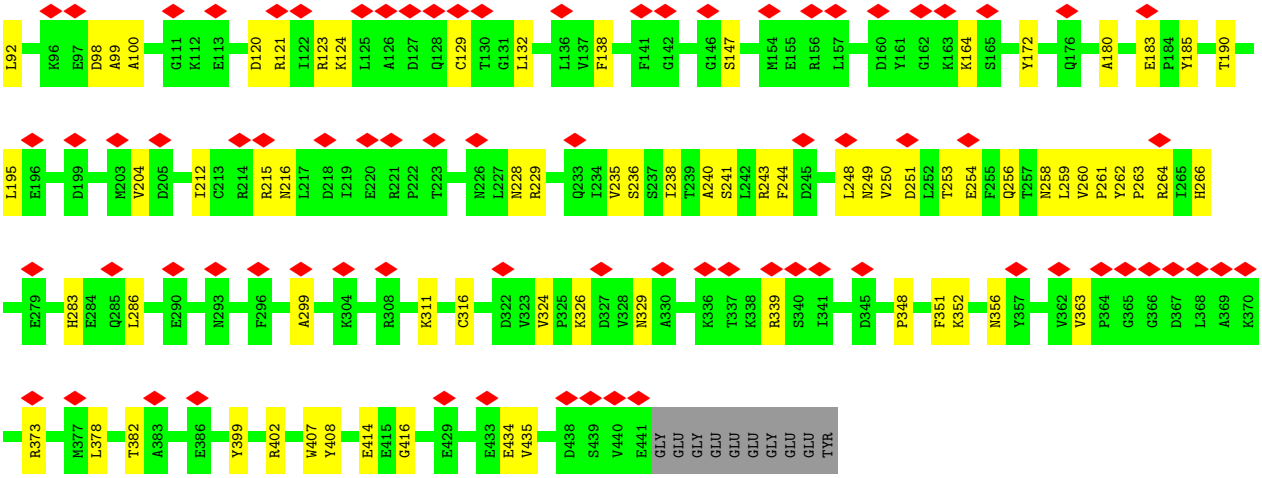
Chain 1N:



• Molecule 1: Tubulin alpha-1B chain

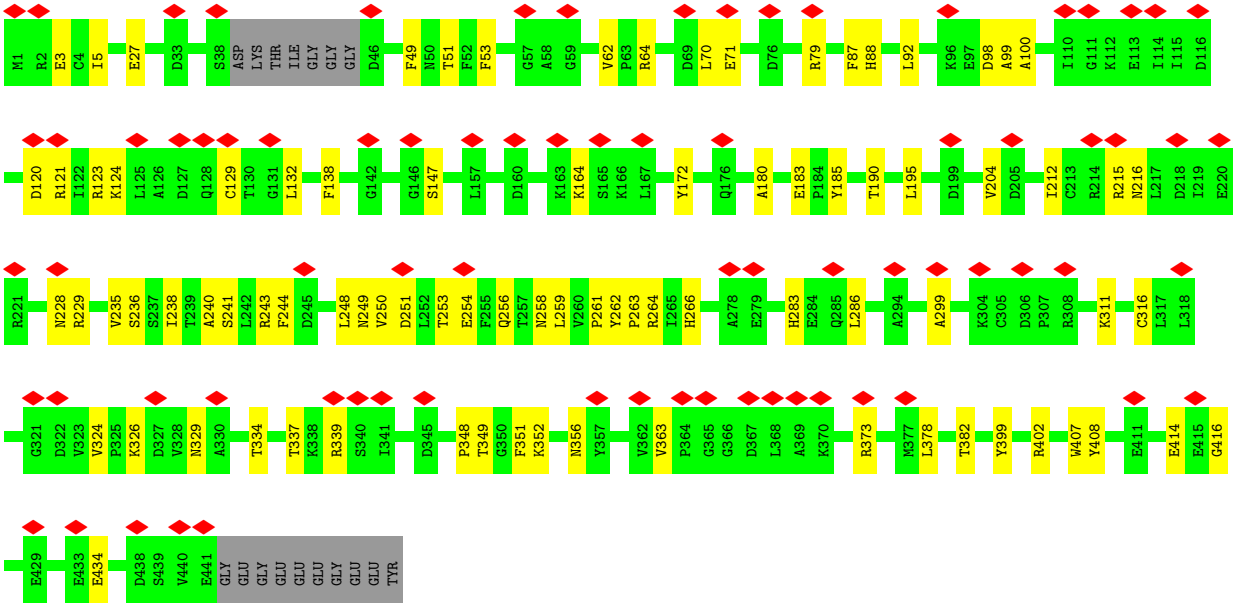
Chain 2A:





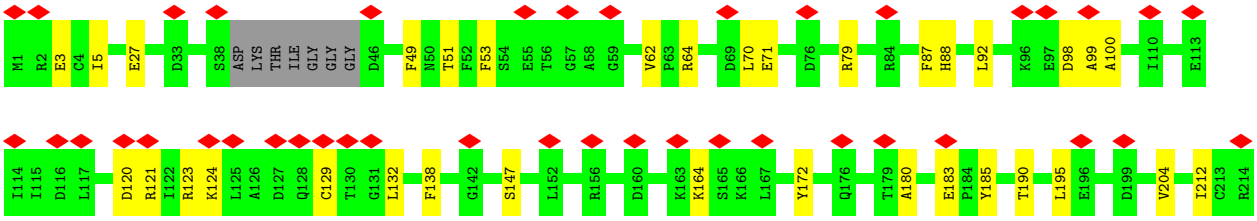
• Molecule 1: Tubulin alpha-1B chain

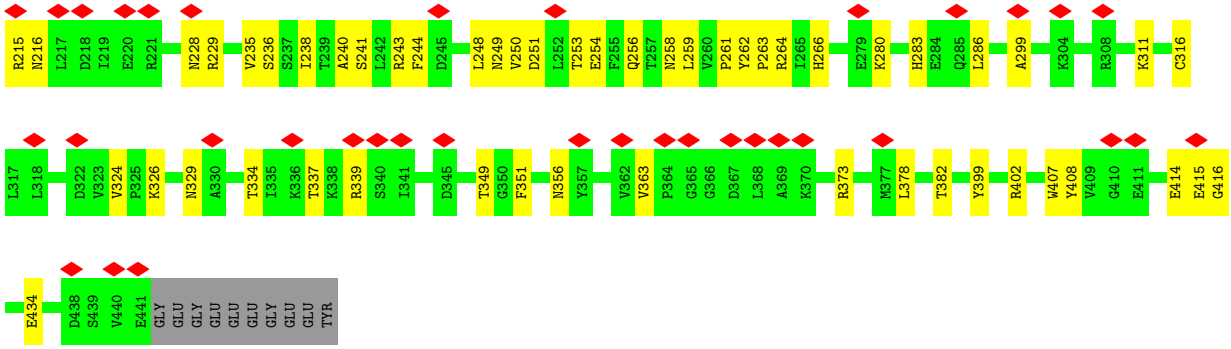
Chain 2B:



• Molecule 1: Tubulin alpha-1B chain

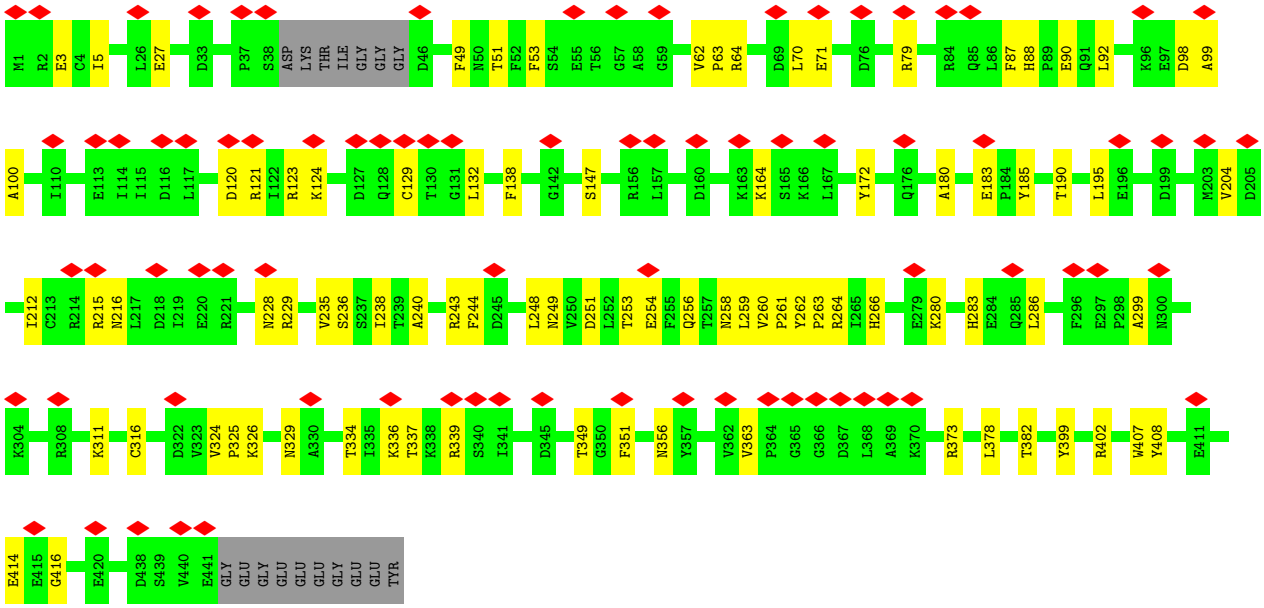
Chain 2C:





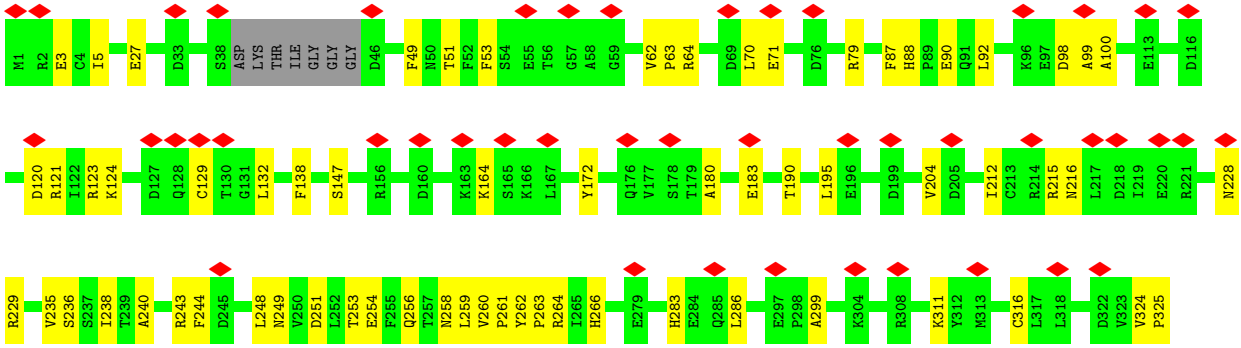
• Molecule 1: Tubulin alpha-1B chain

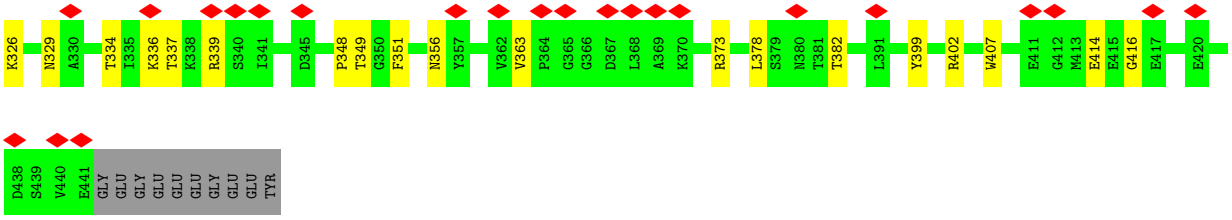
Chain 2D:



• Molecule 1: Tubulin alpha-1B chain

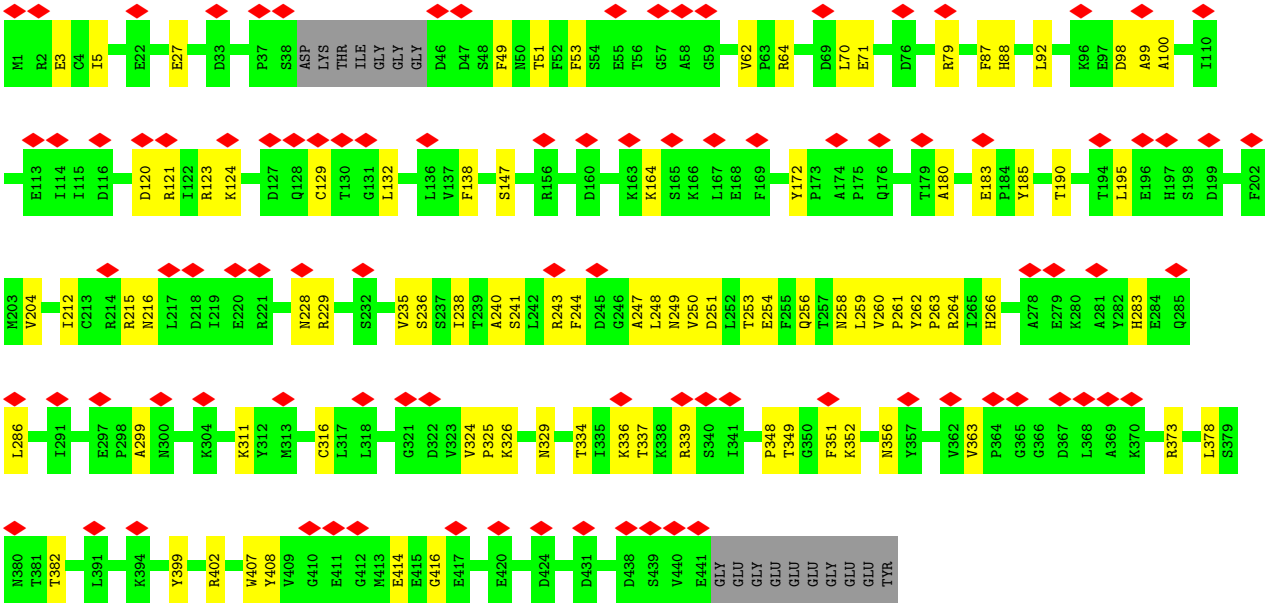
Chain 2E:





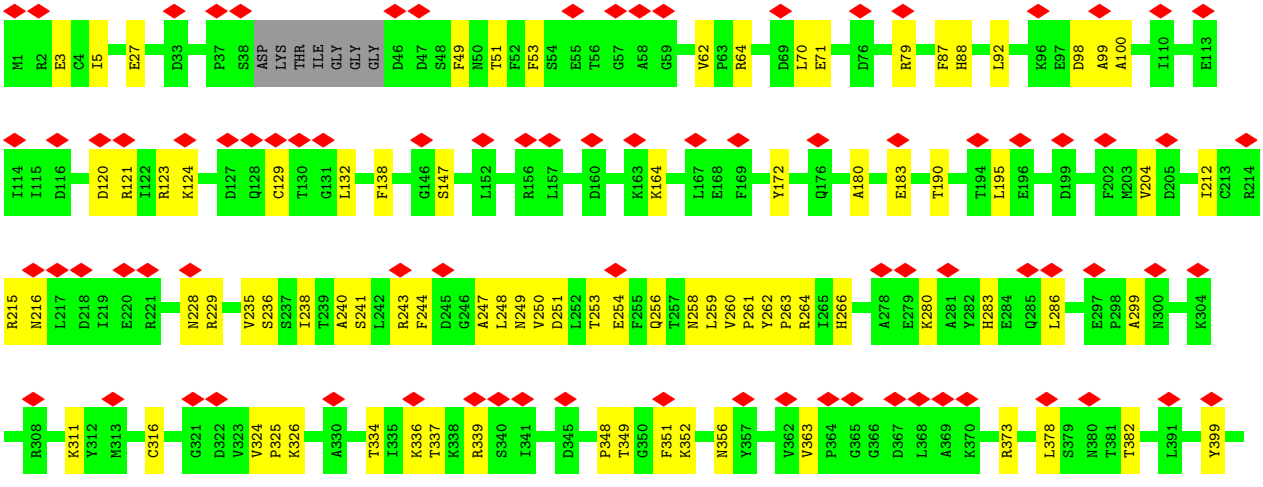
• Molecule 1: Tubulin alpha-1B chain

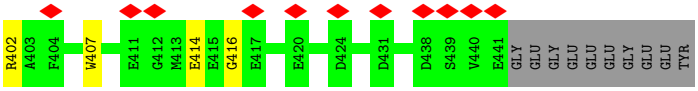
Chain 2F:



• Molecule 1: Tubulin alpha-1B chain

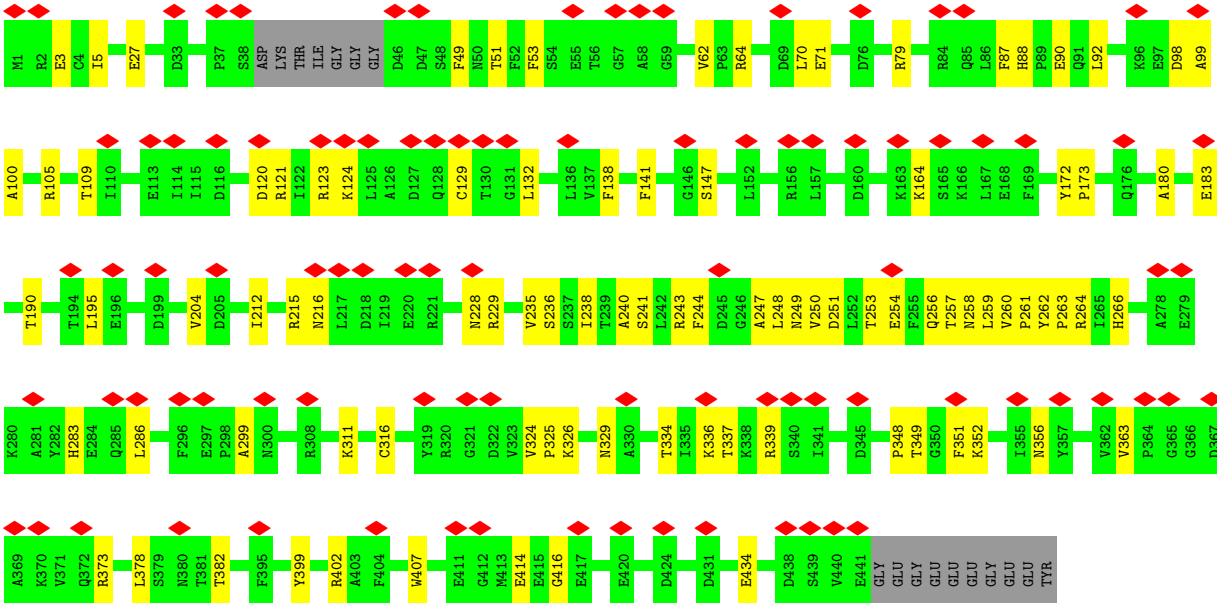
Chain 2G:





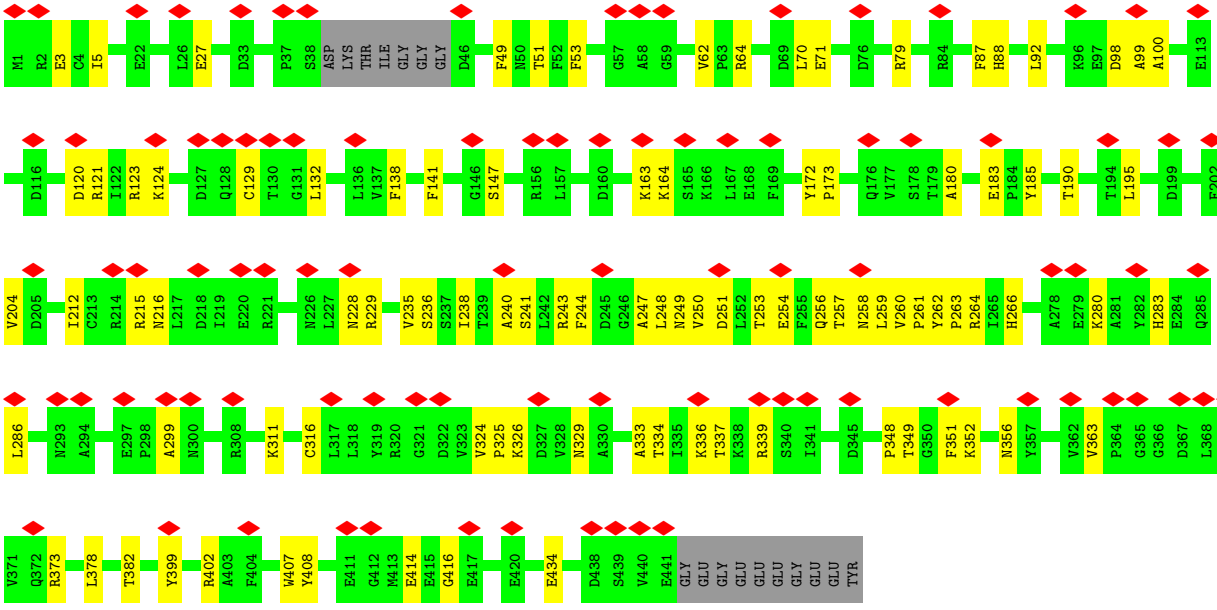
• Molecule 1: Tubulin alpha-1B chain

Chain 2I:



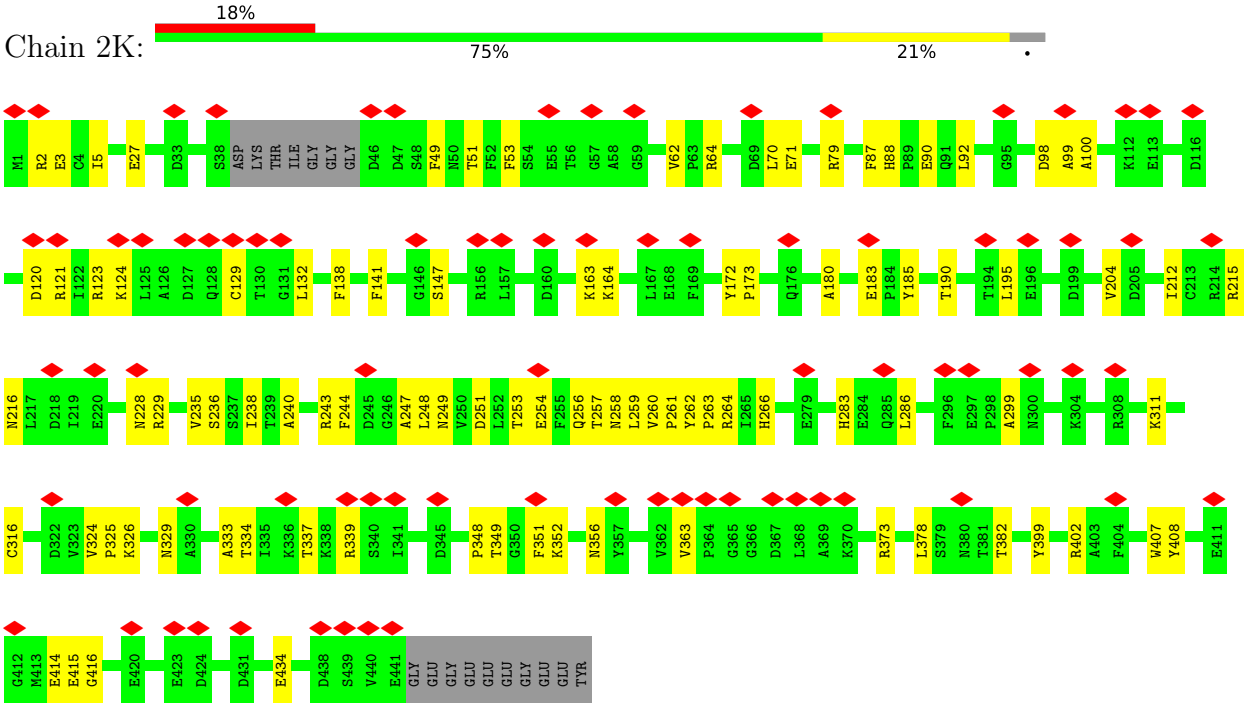
• Molecule 1: Tubulin alpha-1B chain

Chain 2J:



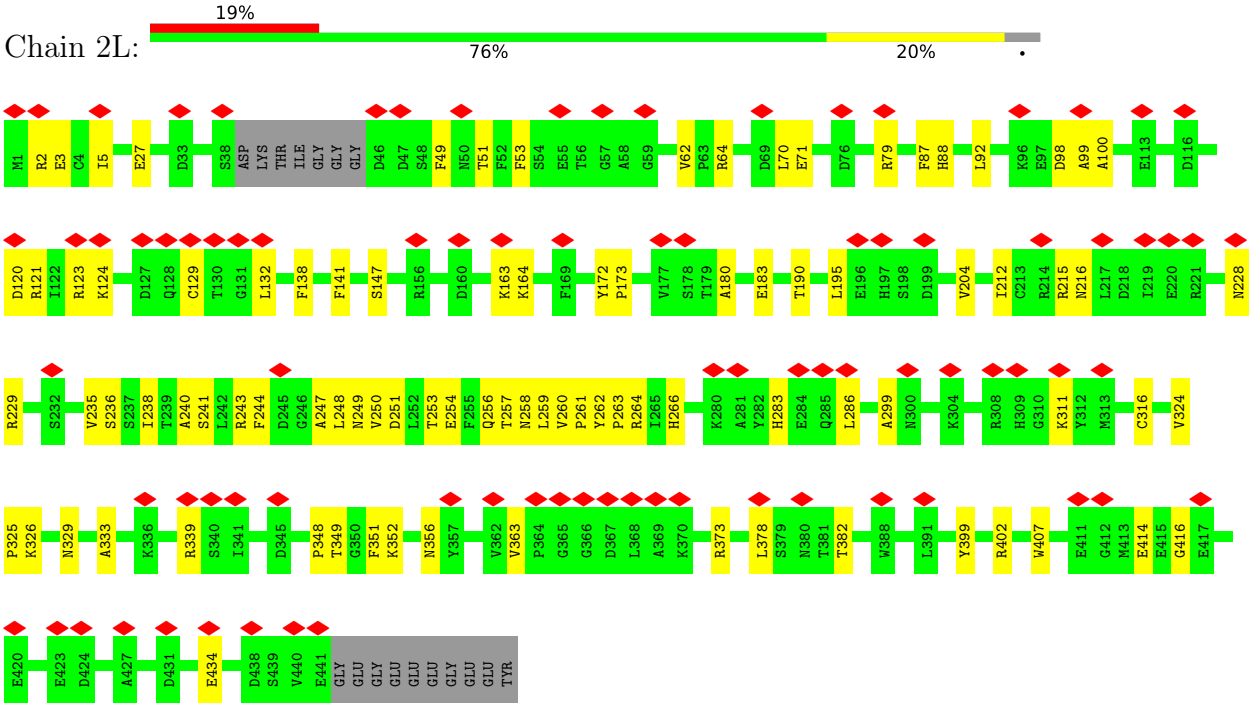
• Molecule 1: Tubulin alpha-1B chain

Chain 2K:



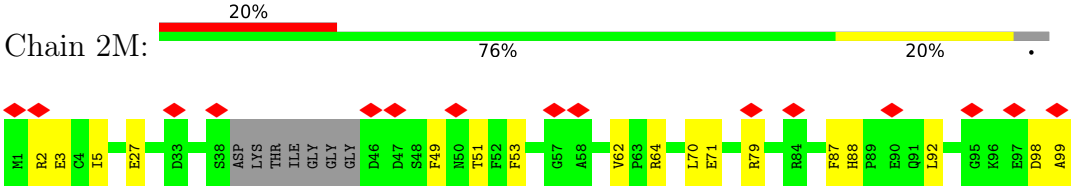
• Molecule 1: Tubulin alpha-1B chain

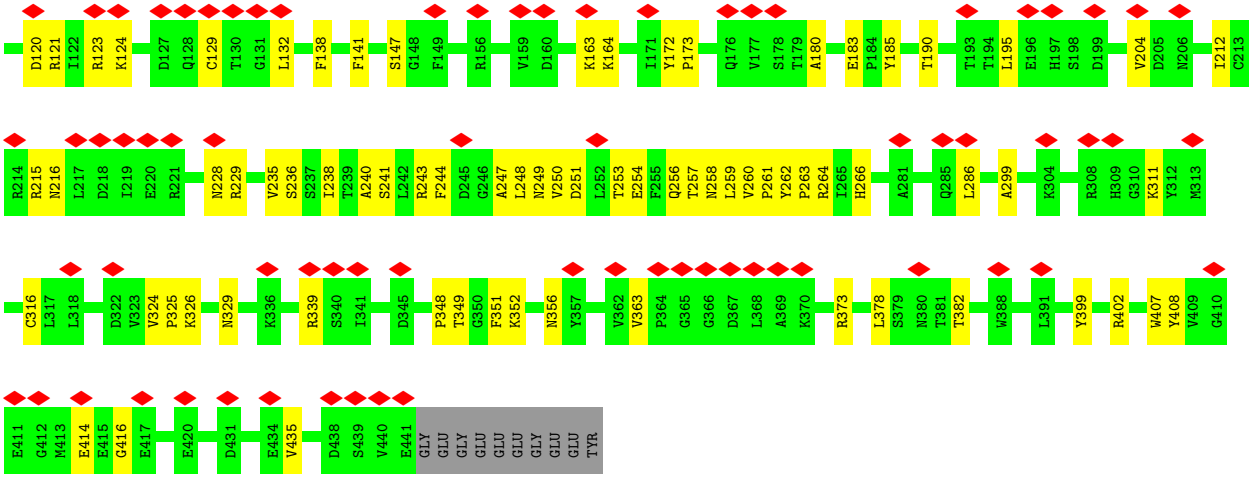
Chain 2L:



• Molecule 1: Tubulin alpha-1B chain

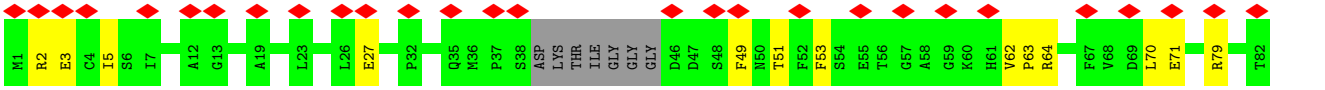
Chain 2M:

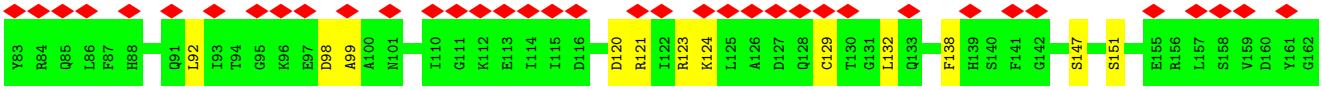


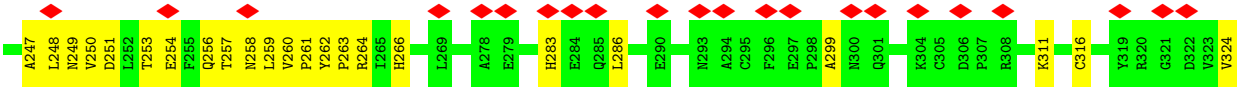


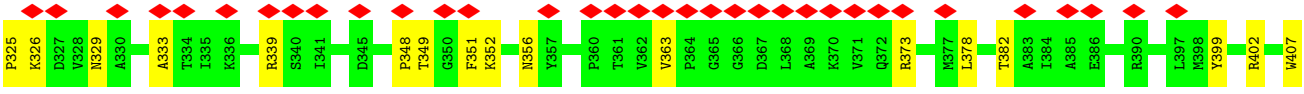
• Molecule 1: Tubulin alpha-1B chain

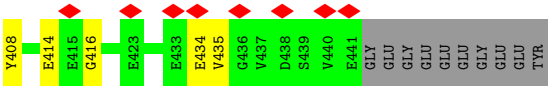
Chain 2N:





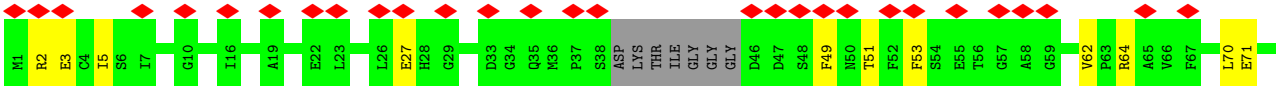


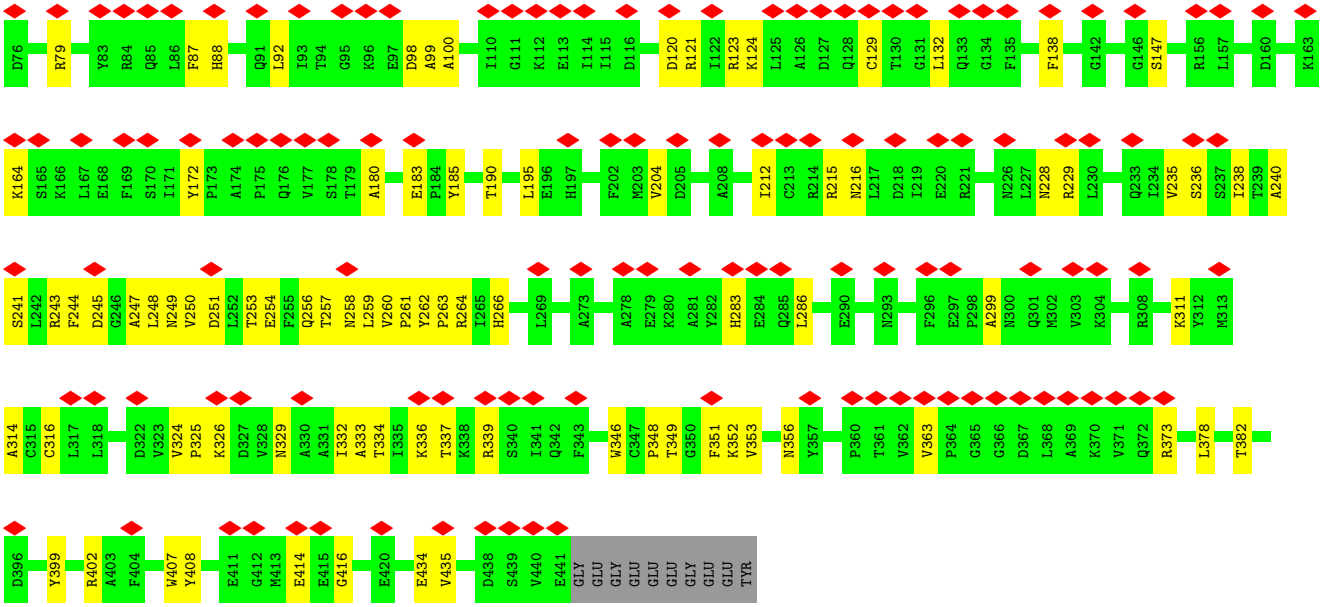




• Molecule 1: Tubulin alpha-1B chain

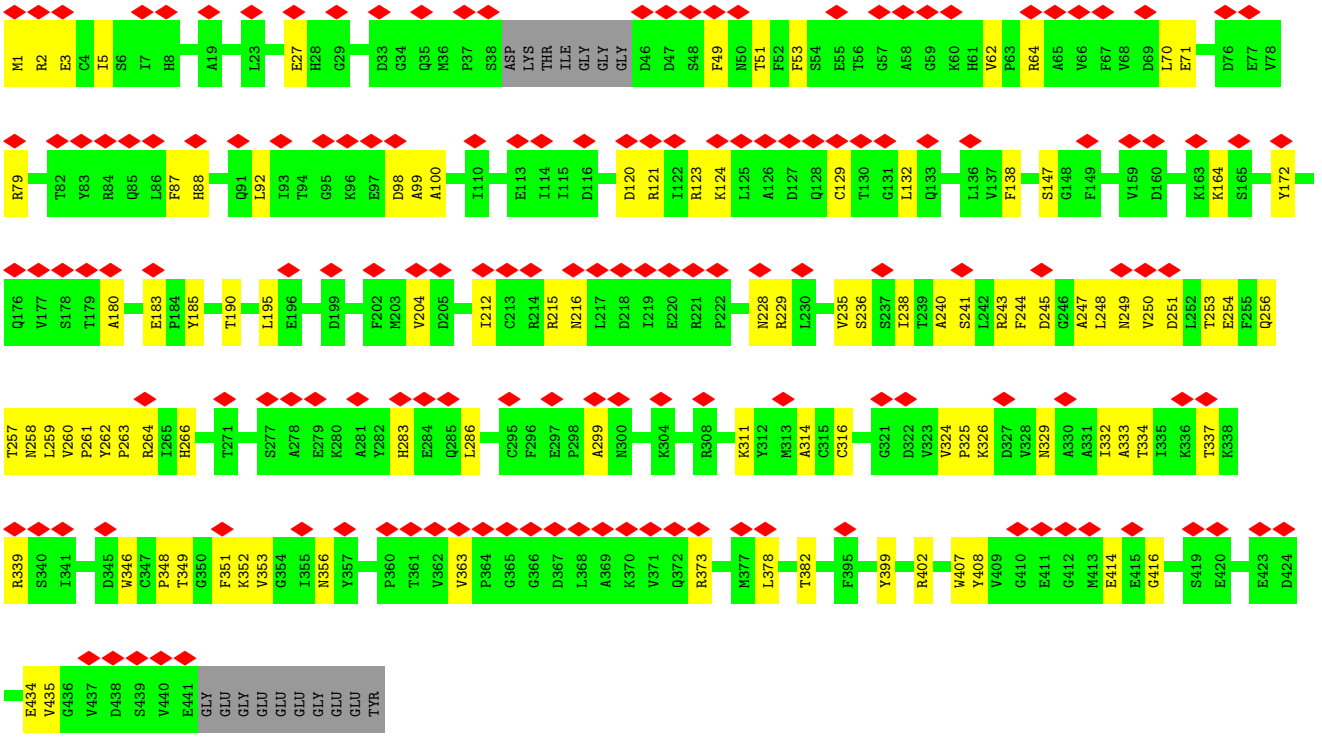
Chain 3A:





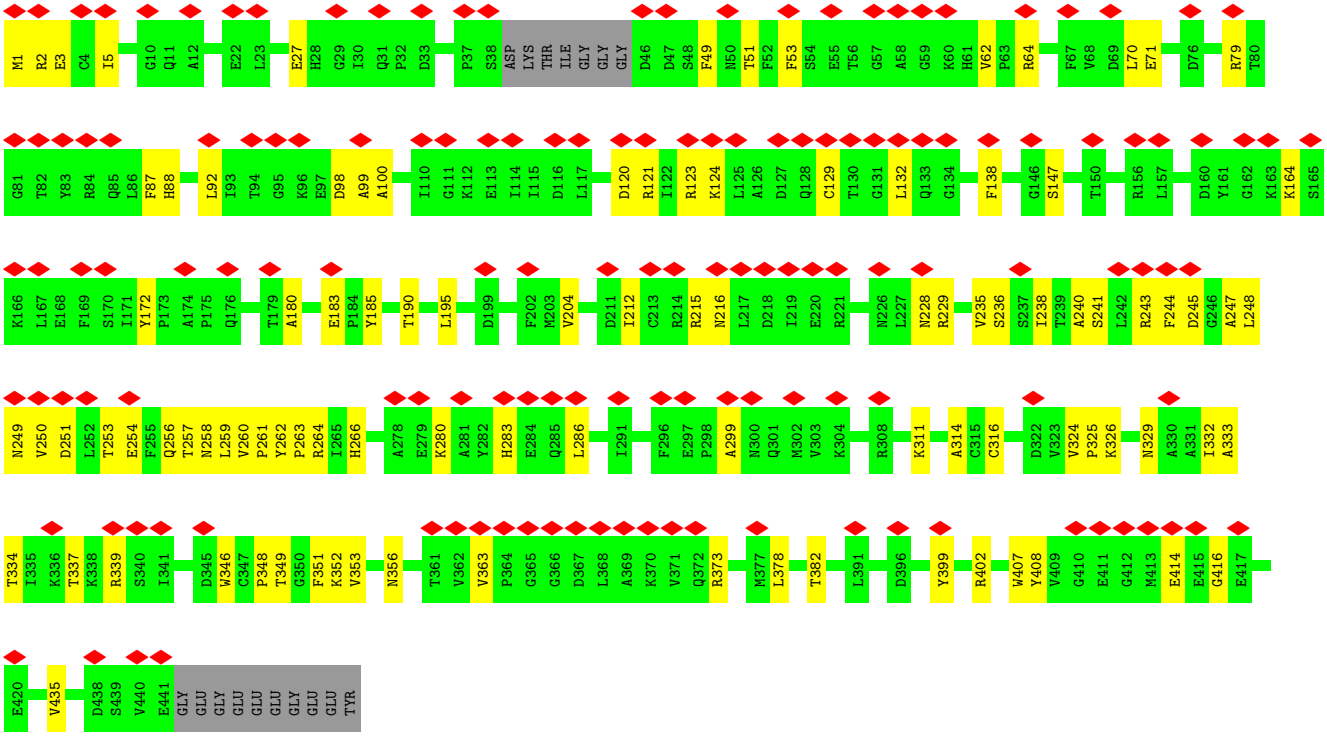
• Molecule 1: Tubulin alpha-1B chain

Chain 3B:



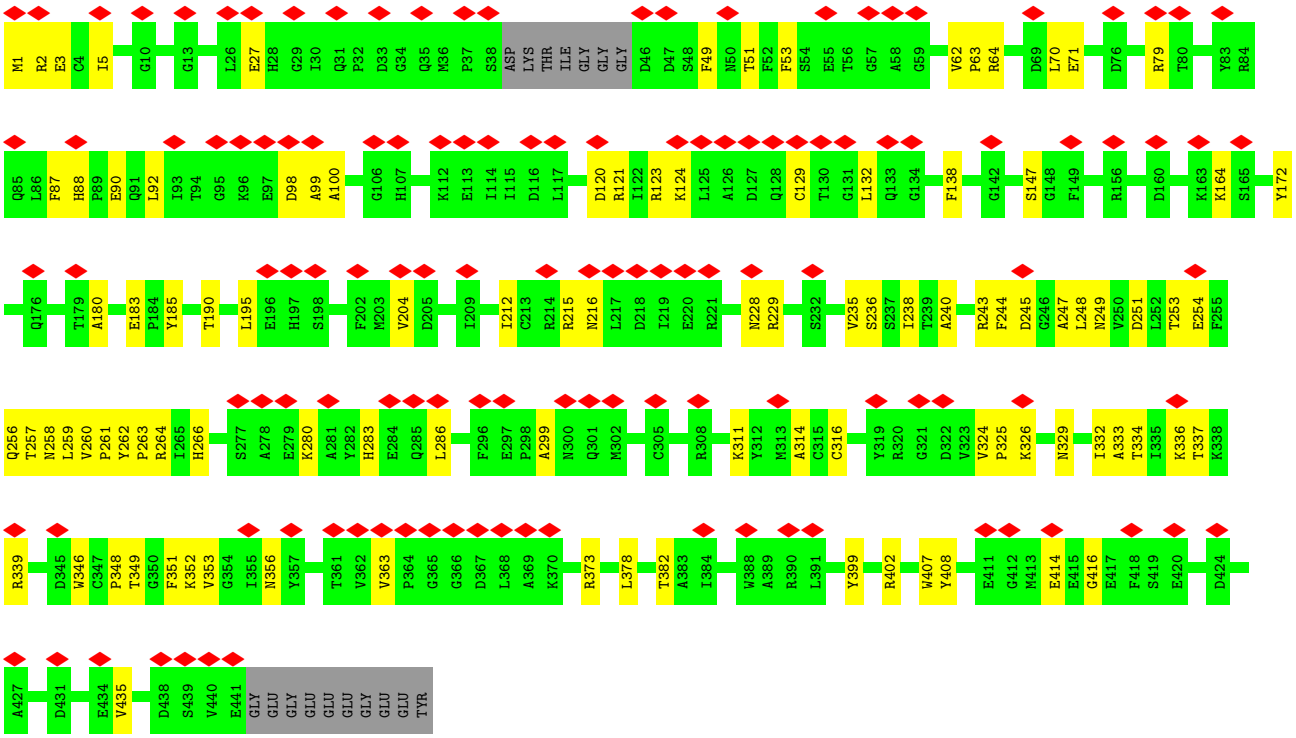
• Molecule 1: Tubulin alpha-1B chain

Chain 3C:



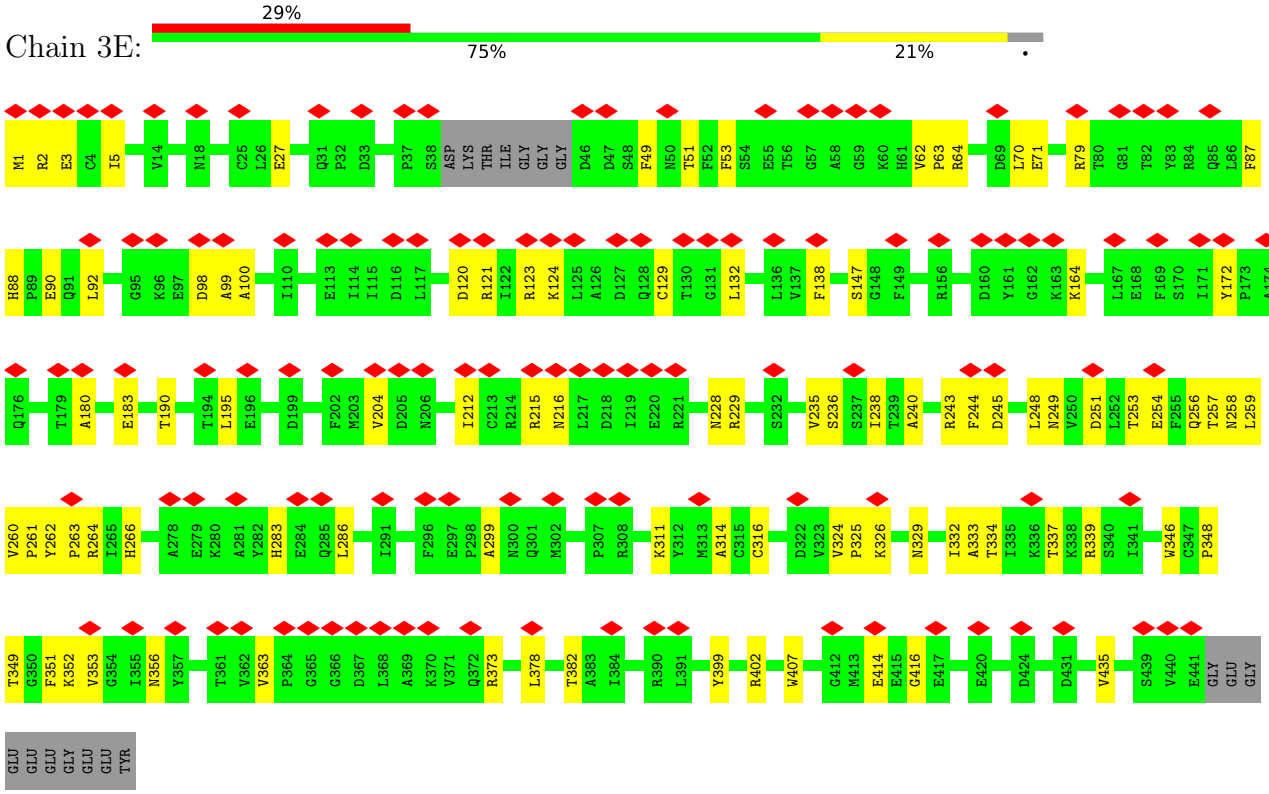
• Molecule 1: Tubulin alpha-1B chain

Chain 3D:



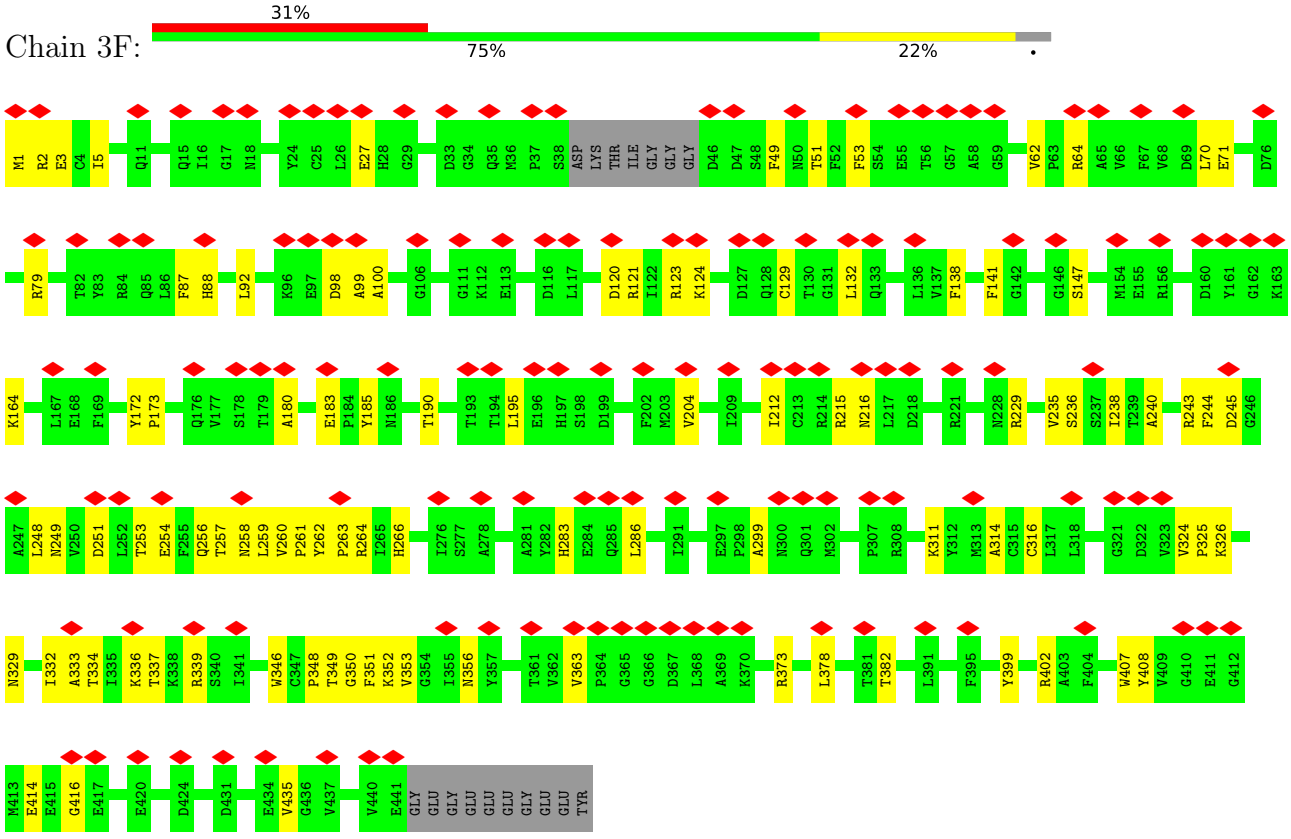
• Molecule 1: Tubulin alpha-1B chain

Chain 3E:



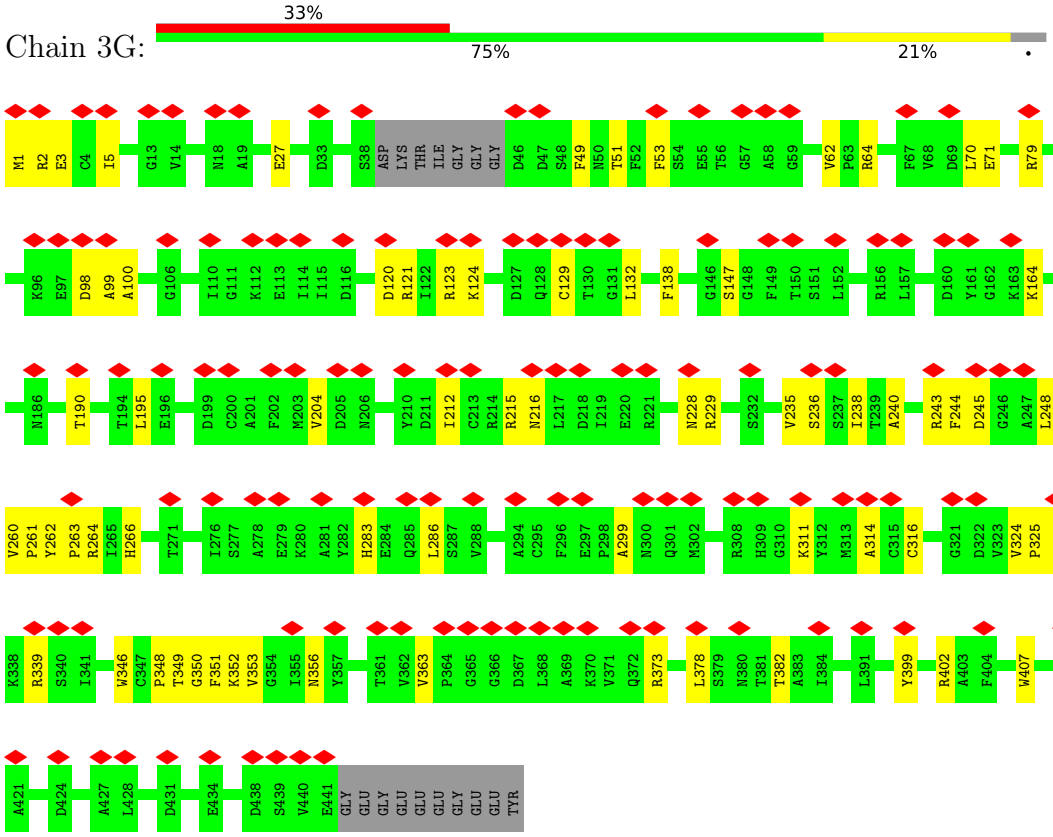
• Molecule 1: Tubulin alpha-1B chain

Chain 3F:



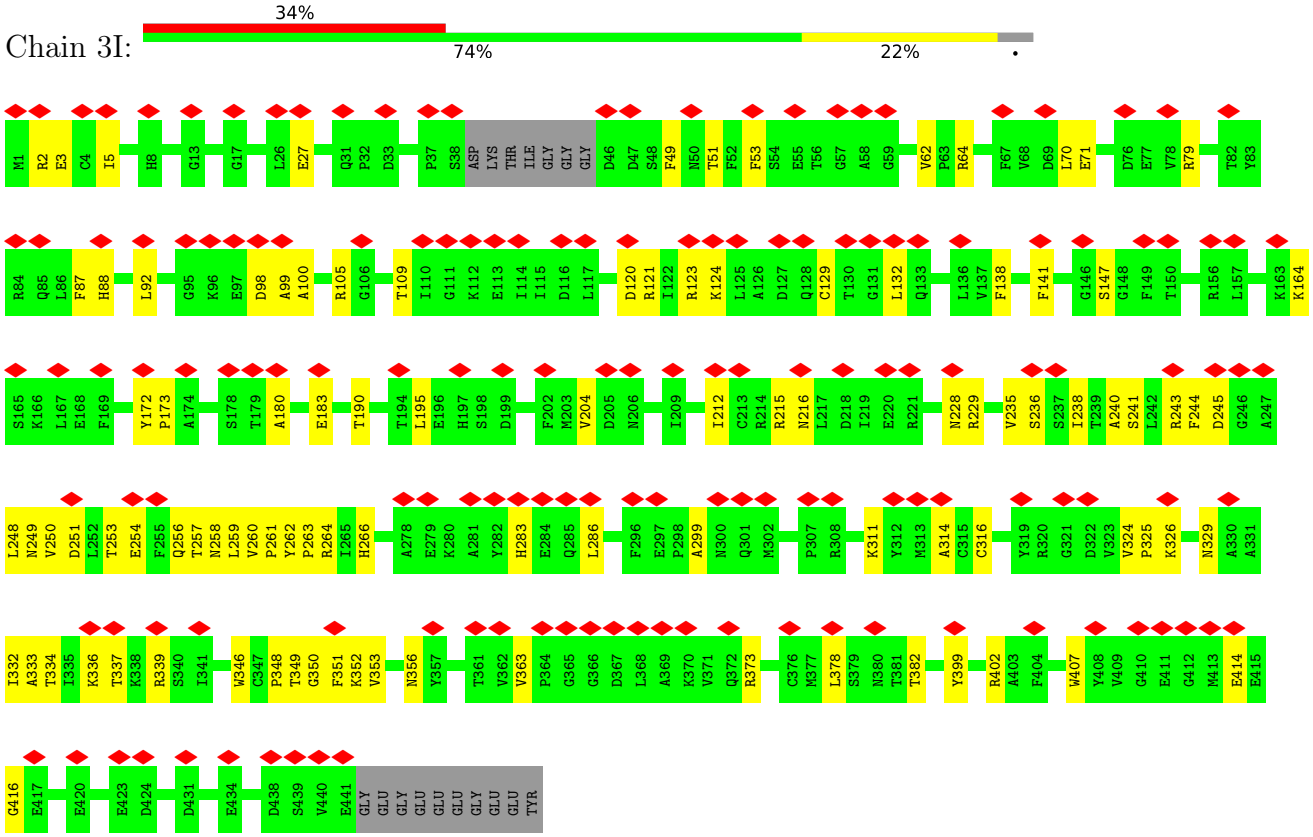
• Molecule 1: Tubulin alpha-1B chain

Chain 3G:



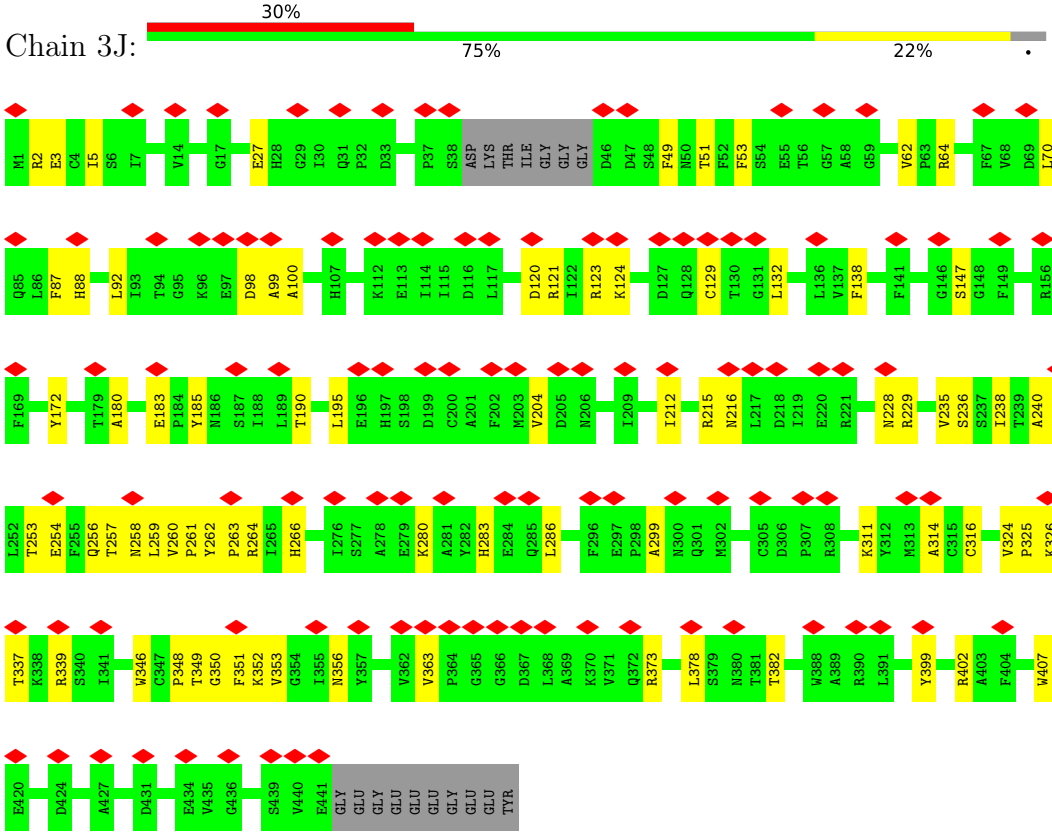
• Molecule 1: Tubulin alpha-1B chain

Chain 3I:



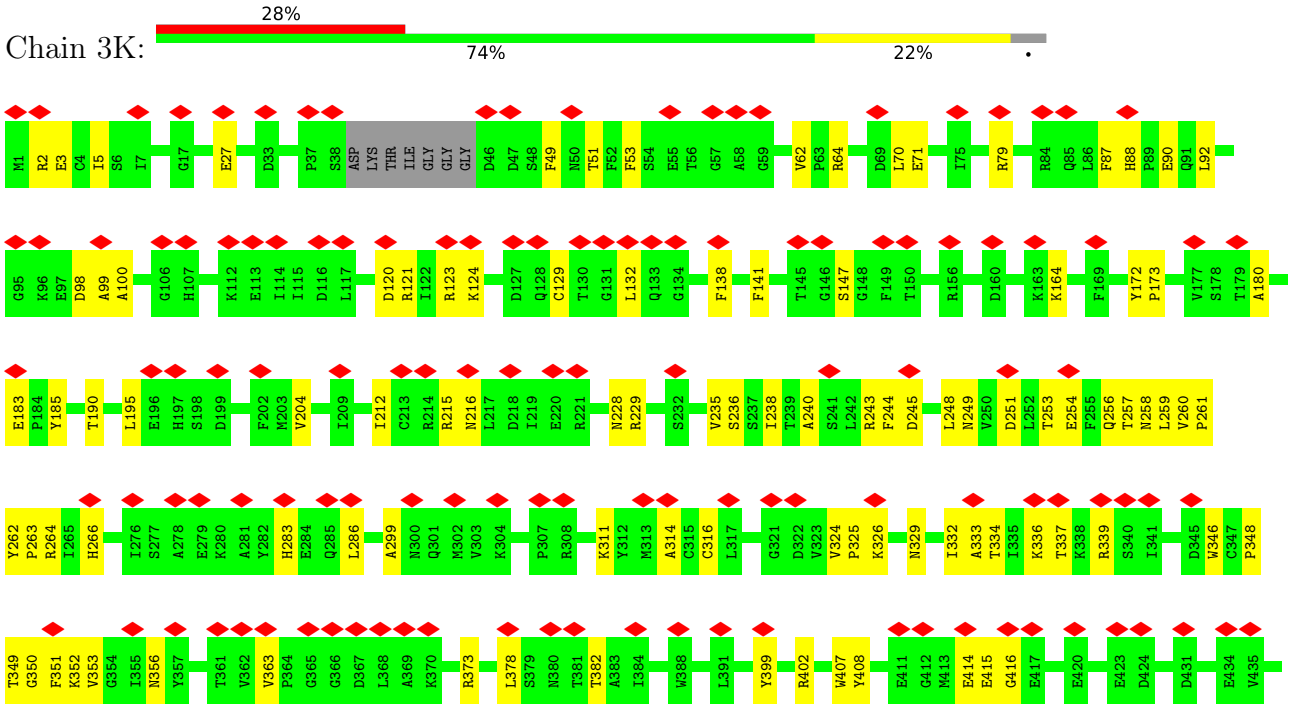
• Molecule 1: Tubulin alpha-1B chain

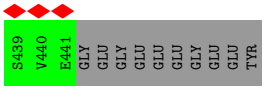
Chain 3J:



• Molecule 1: Tubulin alpha-1B chain

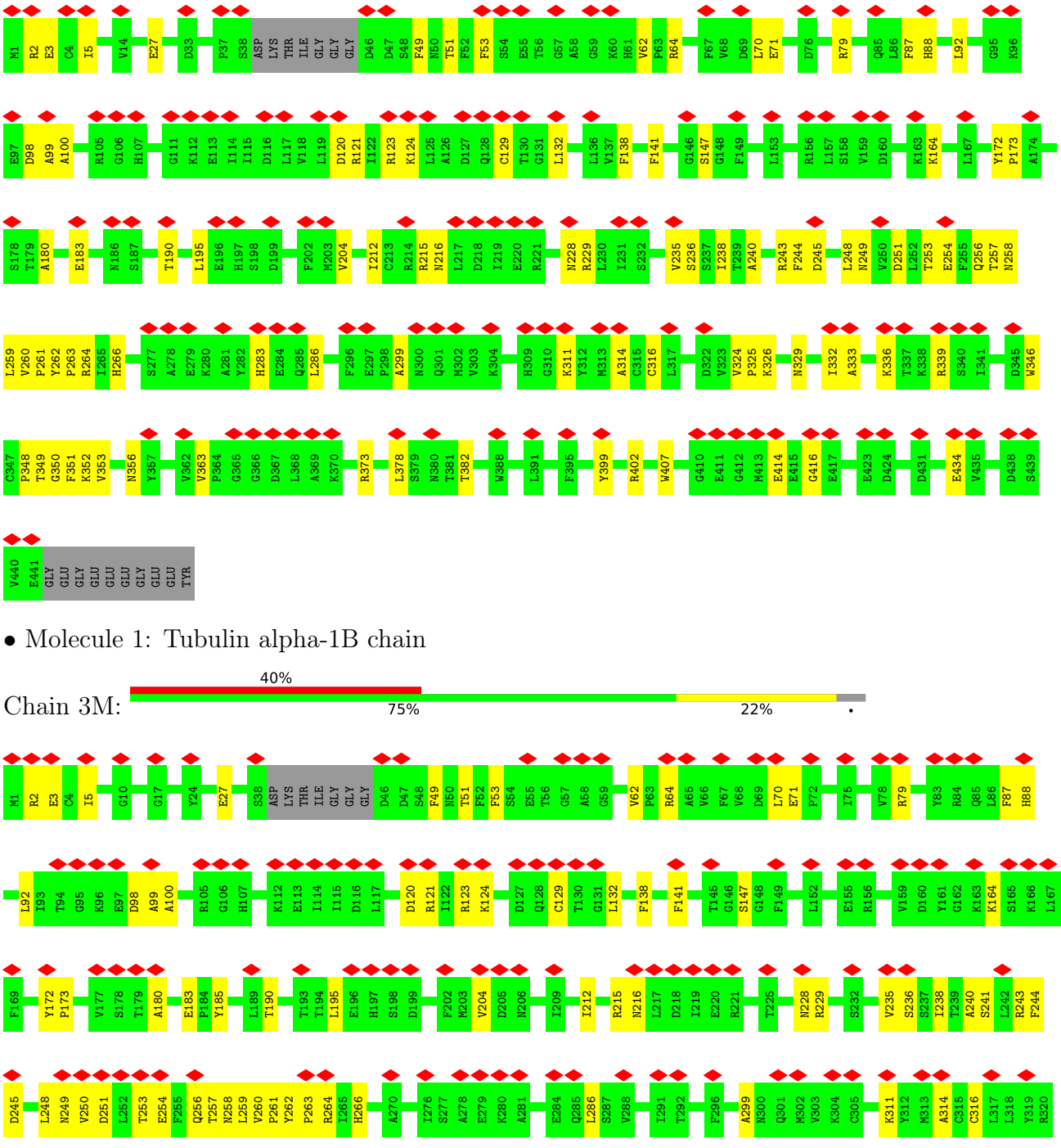
Chain 3K:





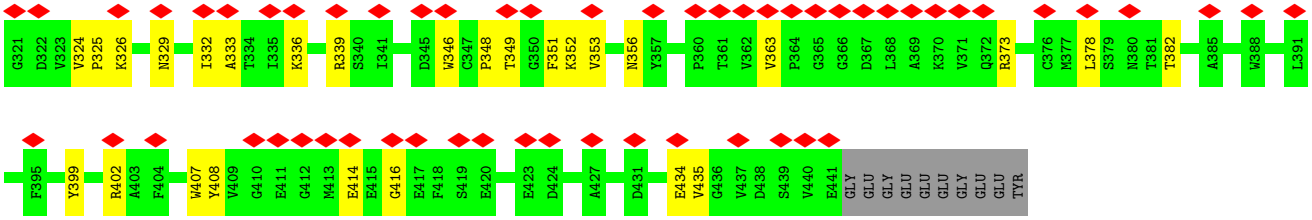
• Molecule 1: Tubulin alpha-1B chain

Chain 3L:



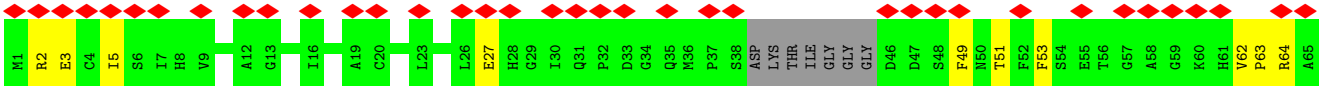
• Molecule 1: Tubulin alpha-1B chain

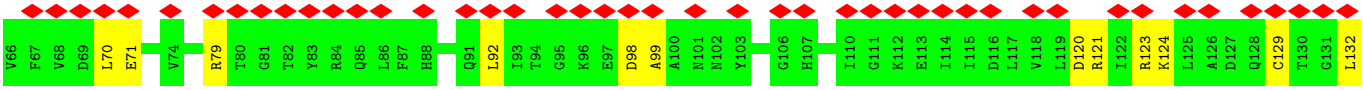
Chain 3M:

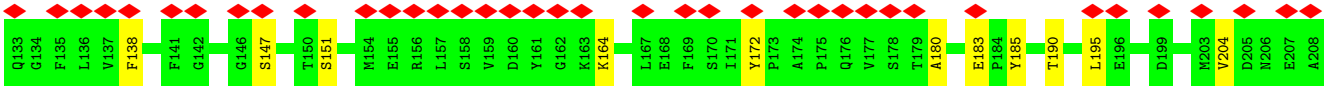


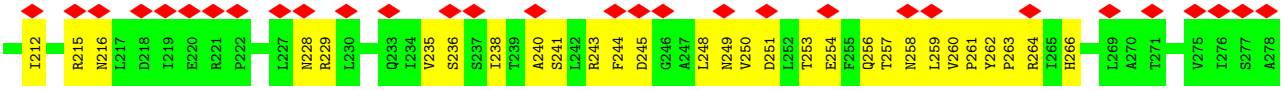
• Molecule 1: Tubulin alpha-1B chain

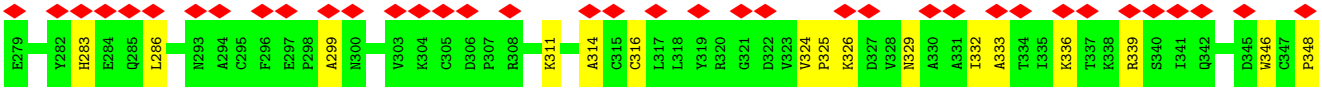
Chain 3N:

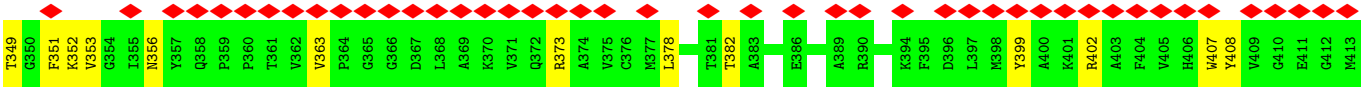


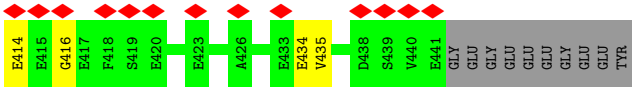






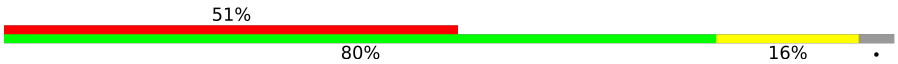


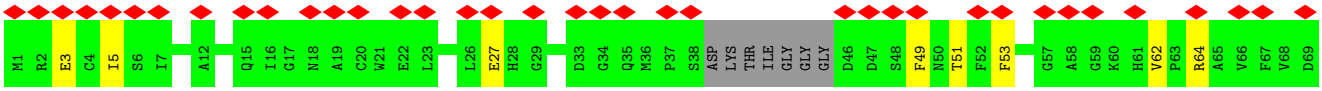


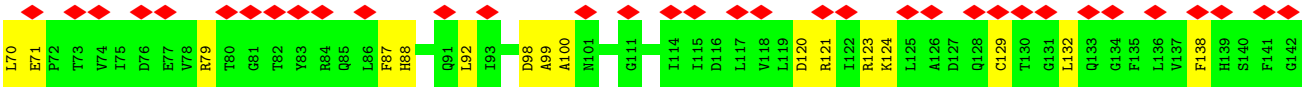


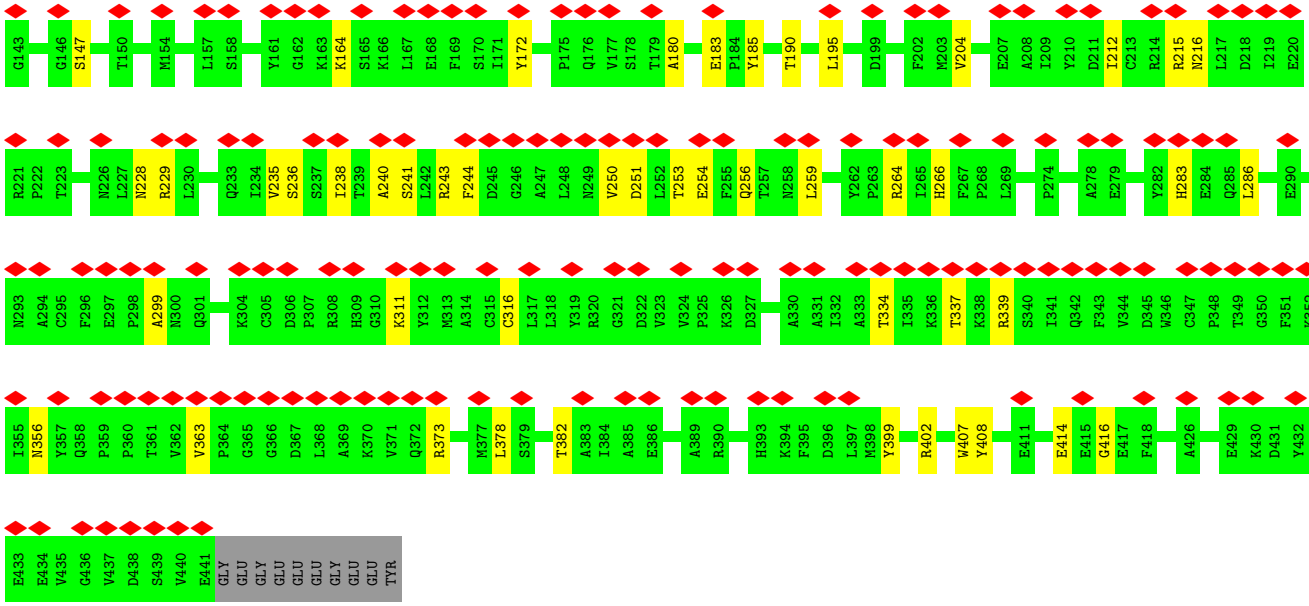
• Molecule 1: Tubulin alpha-1B chain

Chain 4A:



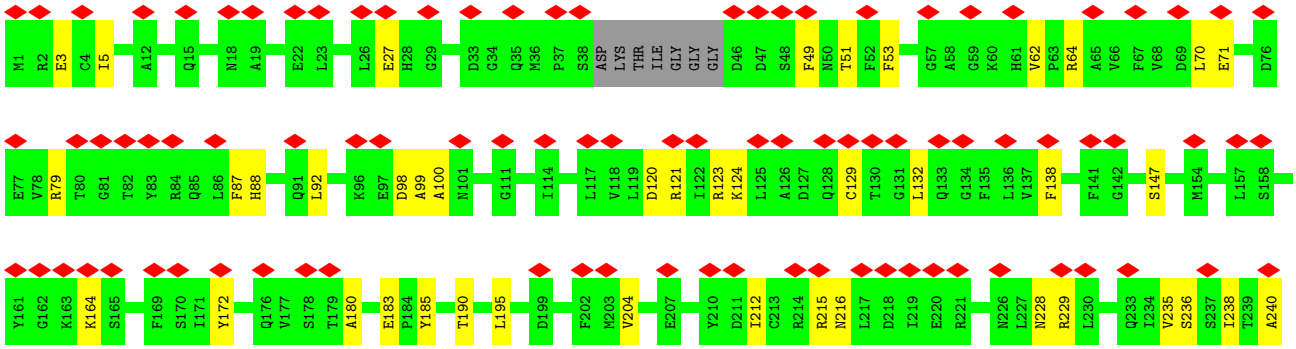






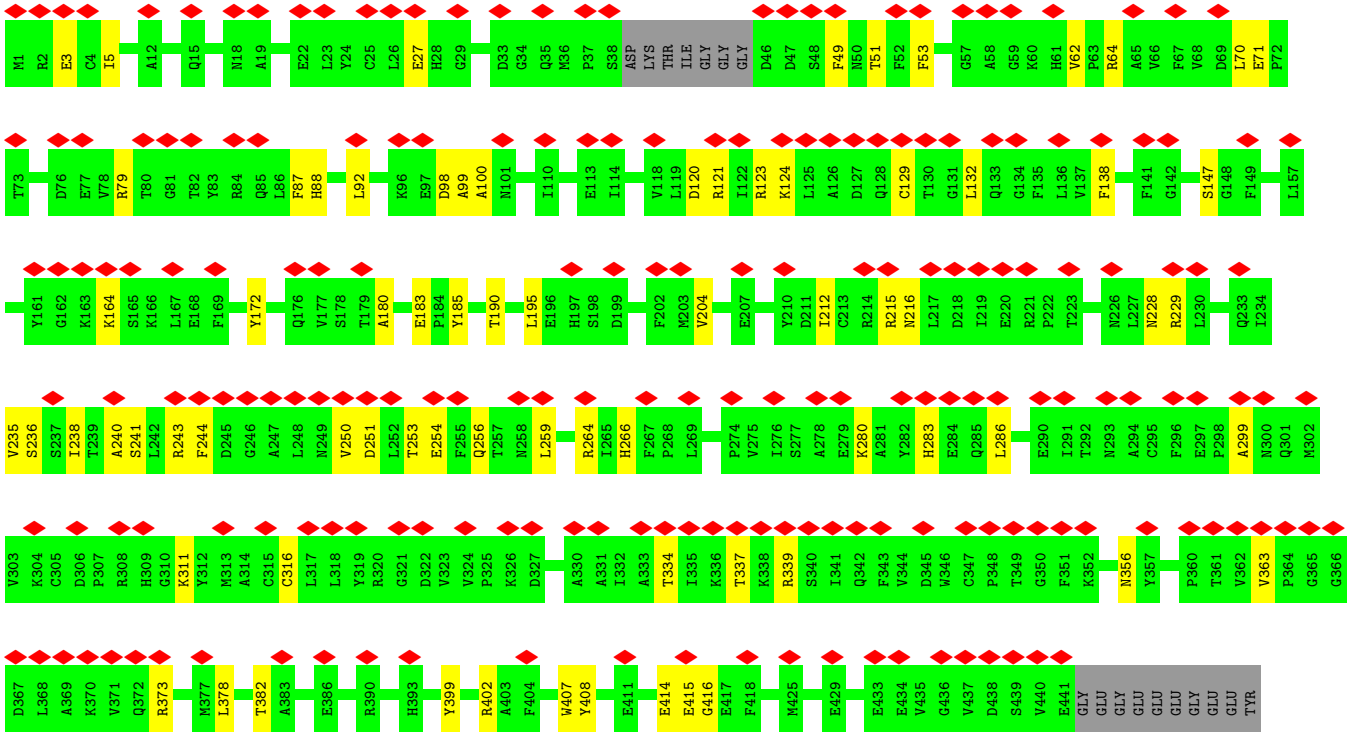
• Molecule 1: Tubulin alpha-1B chain

Chain 4B:



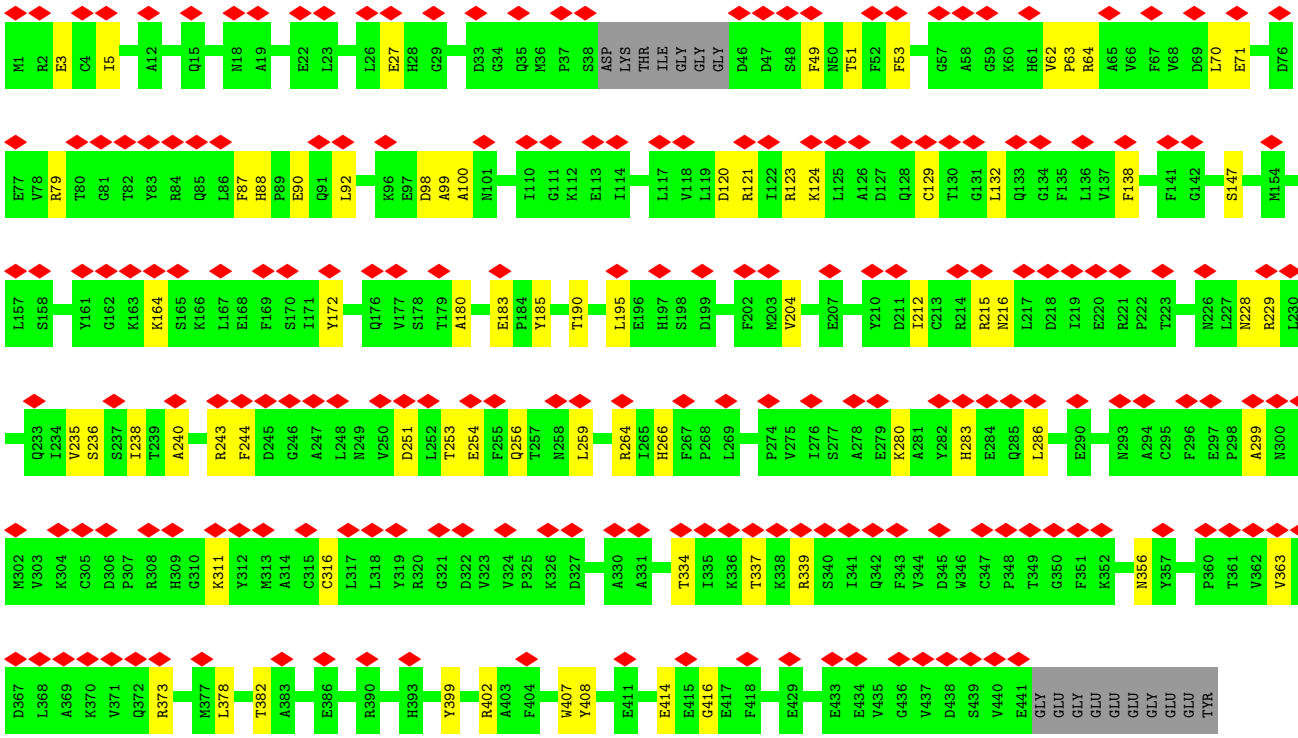
• Molecule 1: Tubulin alpha-1B chain

Chain 4C:



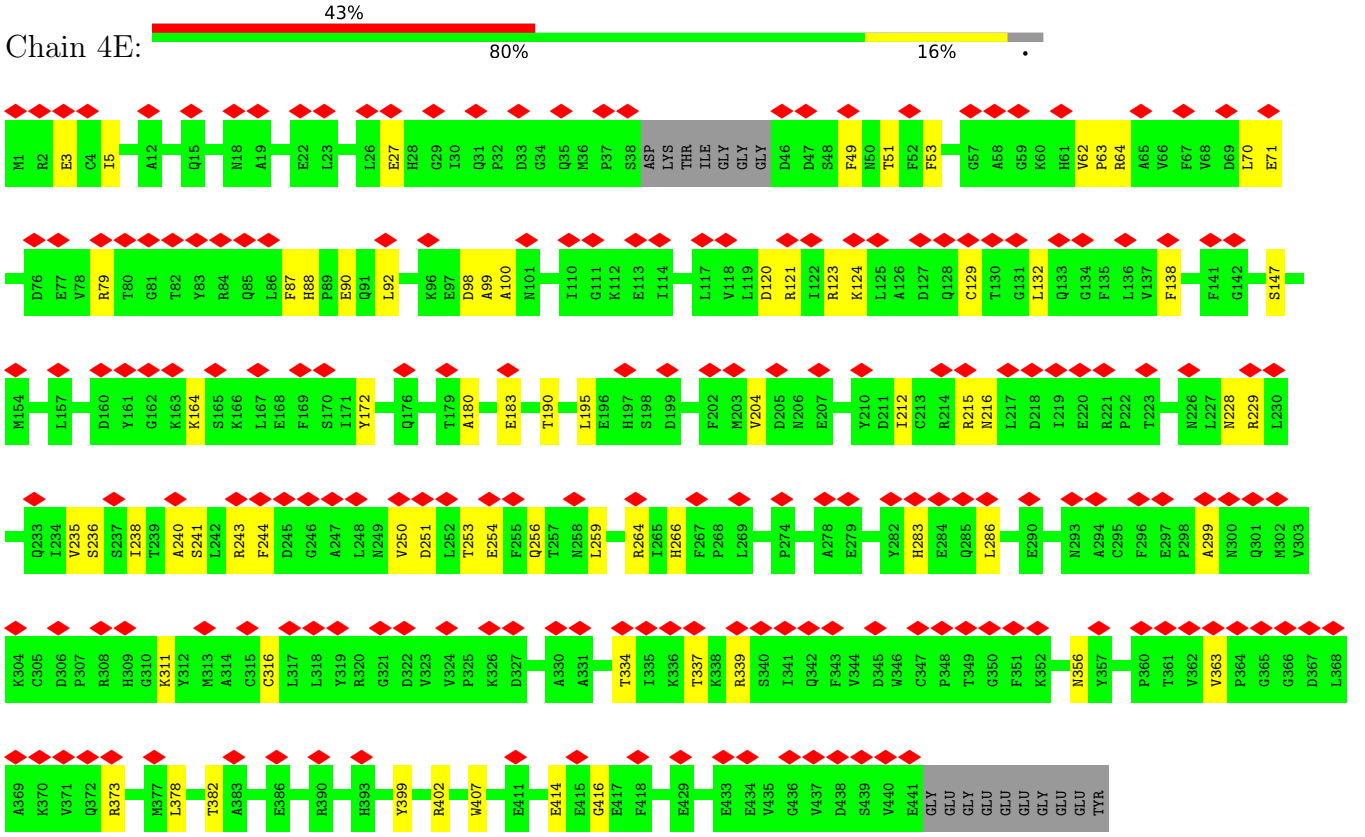
• Molecule 1: Tubulin alpha-1B chain

Chain 4D:



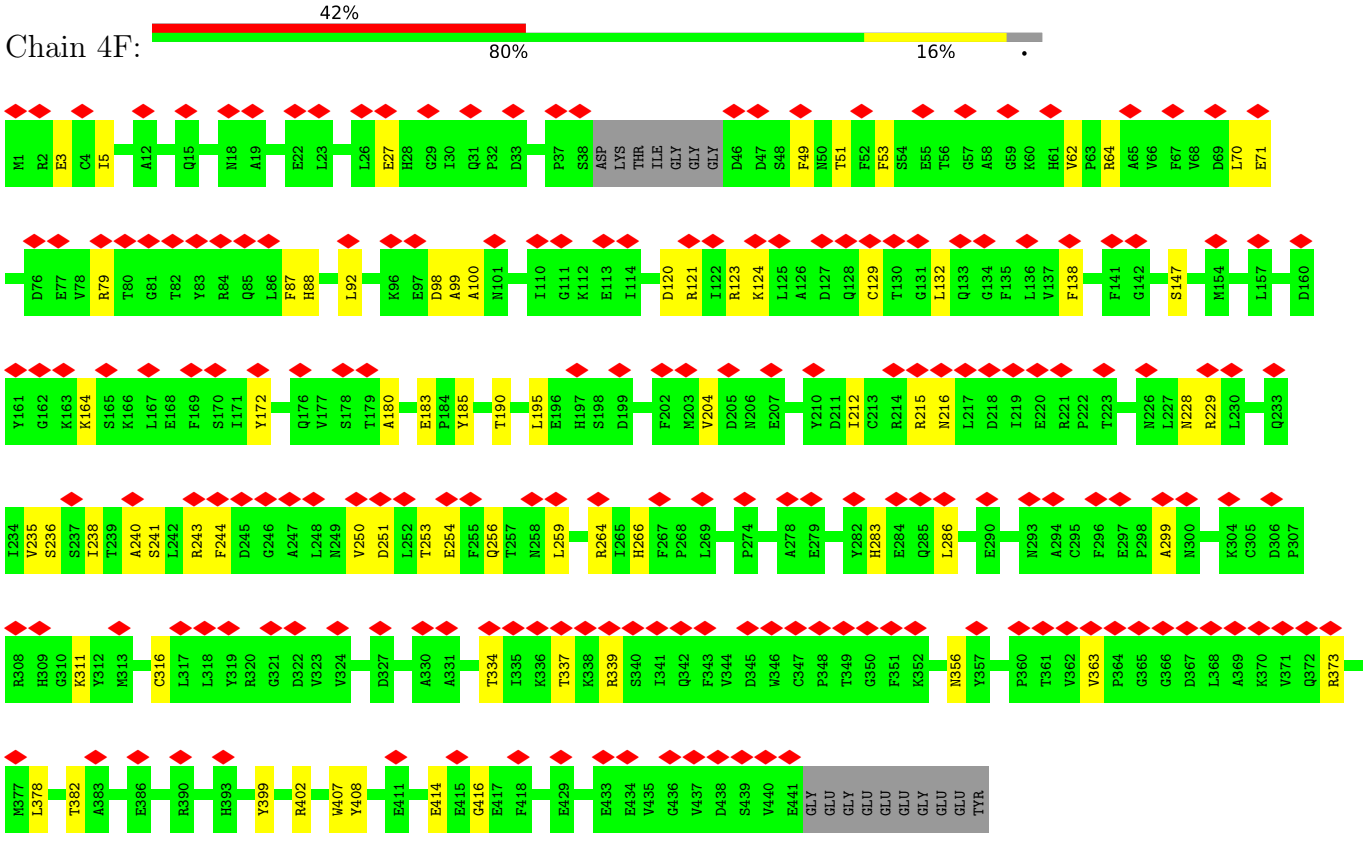
• Molecule 1: Tubulin alpha-1B chain

Chain 4E:



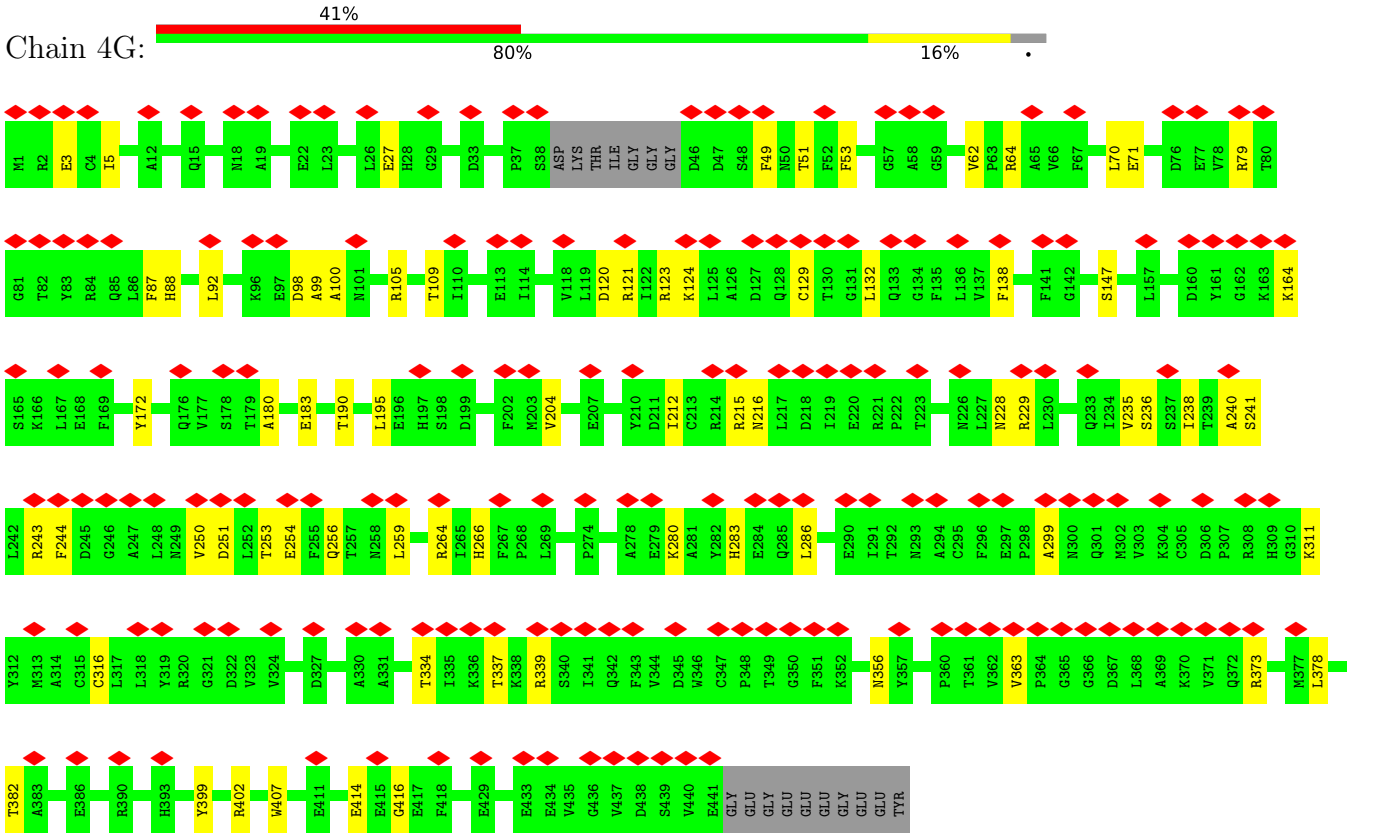
• Molecule 1: Tubulin alpha-1B chain

Chain 4F:



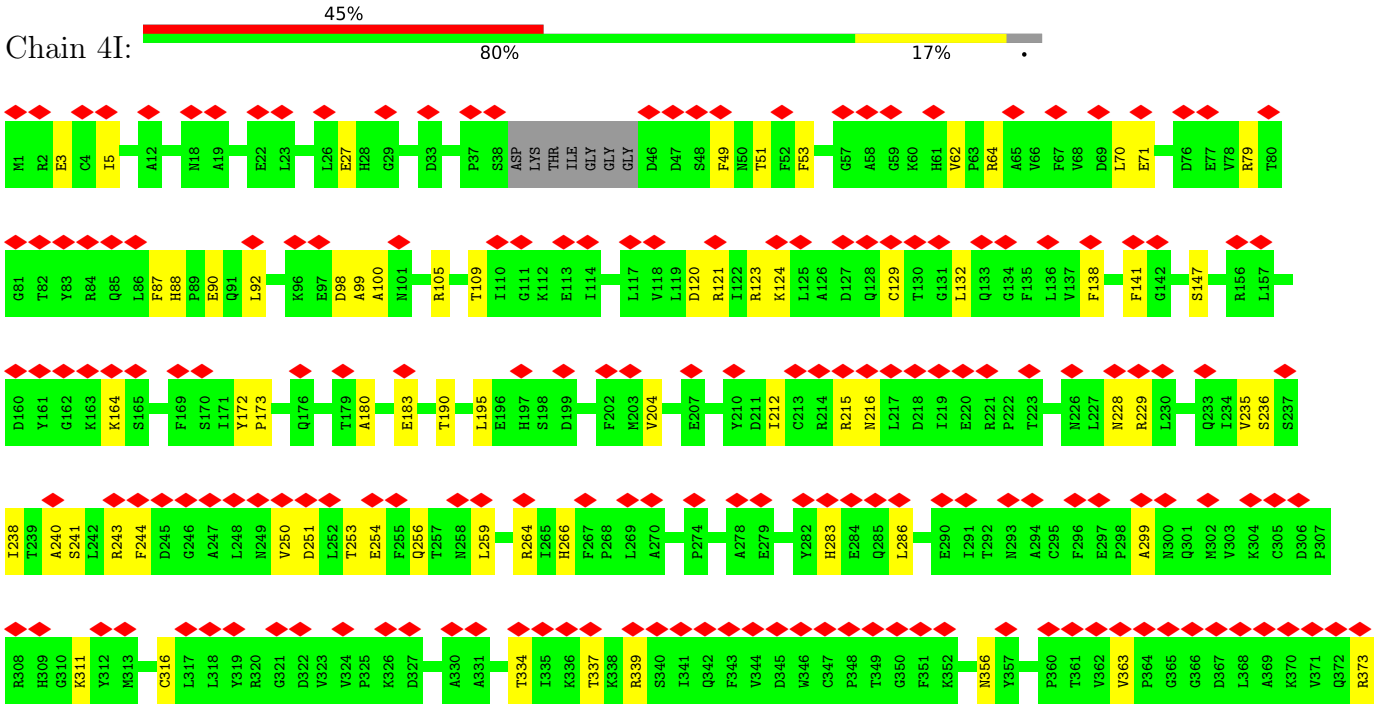
• Molecule 1: Tubulin alpha-1B chain

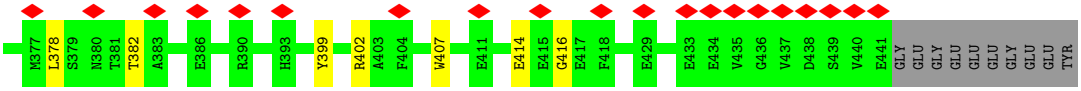
Chain 4G:



• Molecule 1: Tubulin alpha-1B chain

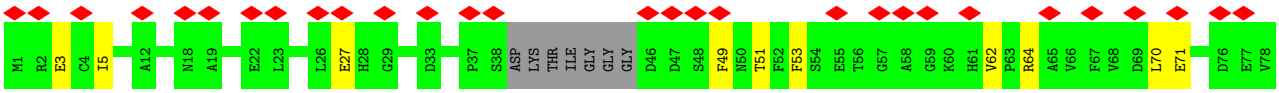
Chain 4I:

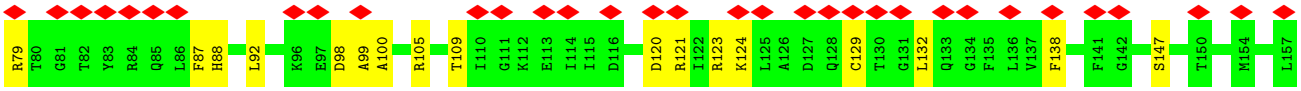


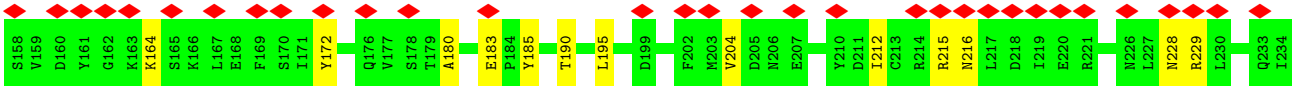


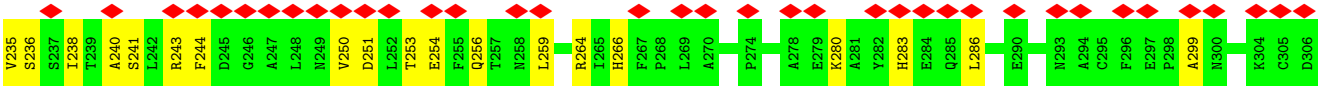
• Molecule 1: Tubulin alpha-1B chain

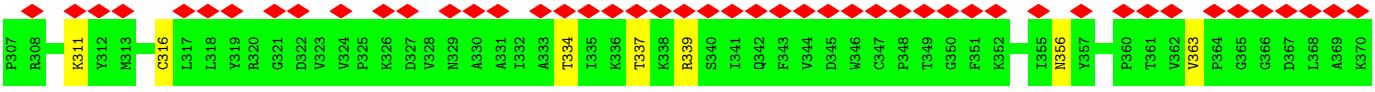
Chain 4J:

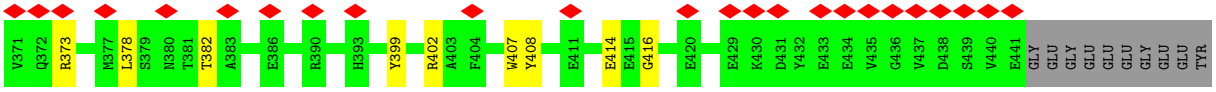






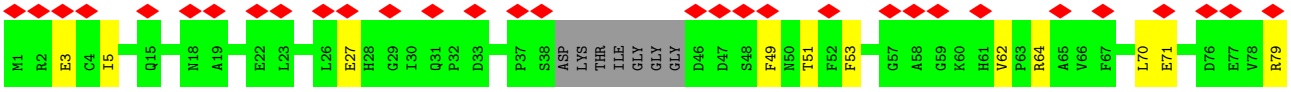


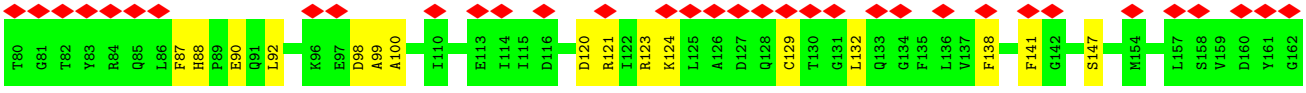


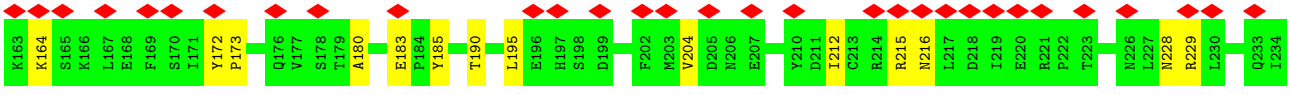


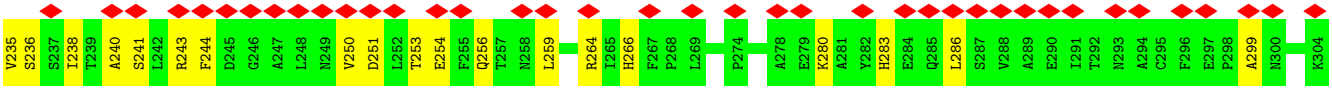
• Molecule 1: Tubulin alpha-1B chain

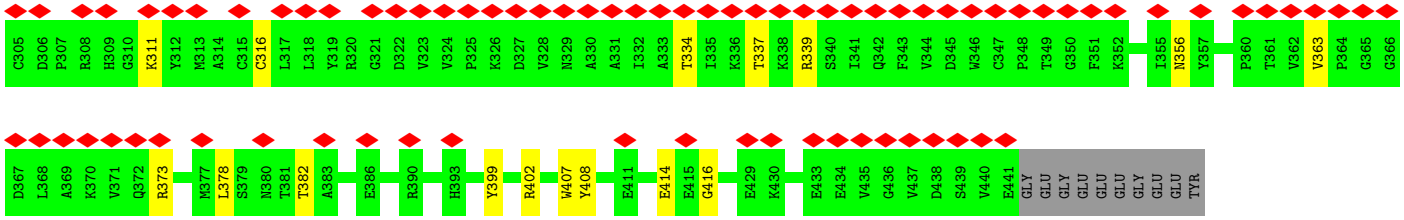
Chain 4K:





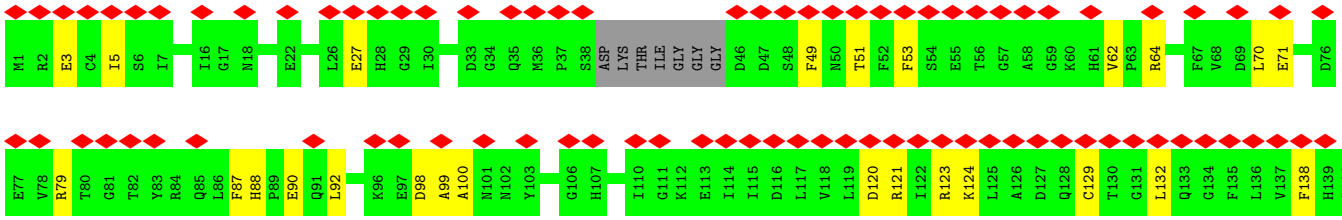






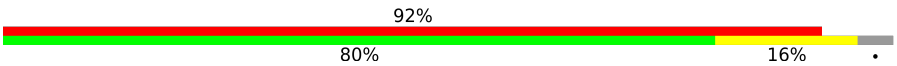
• Molecule 1: Tubulin alpha-1B chain

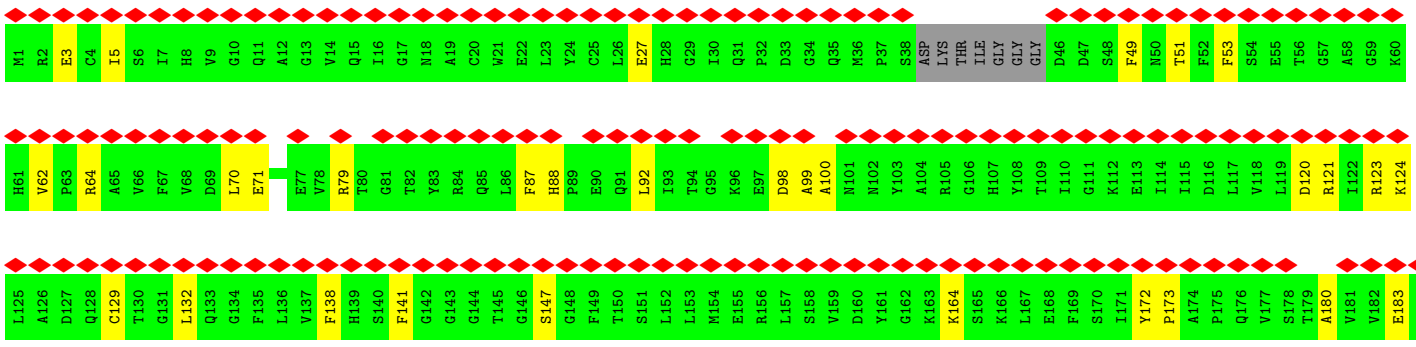
Chain 4L:

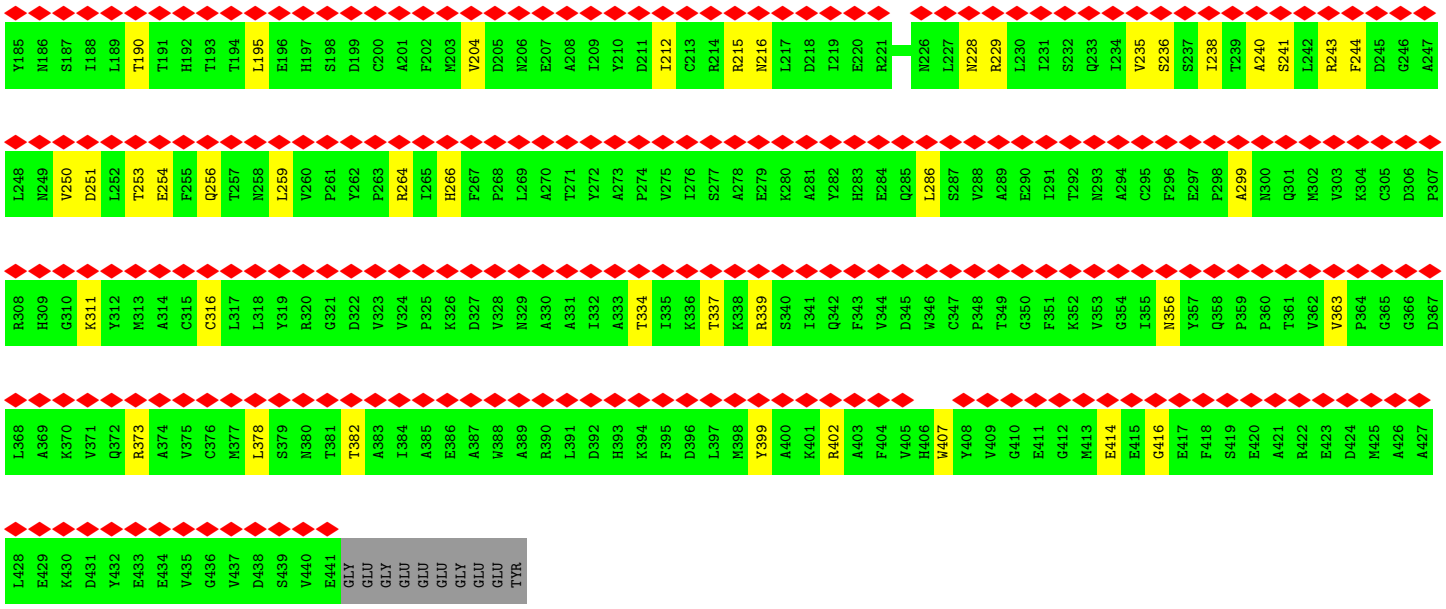


• Molecule 1: Tubulin alpha-1B chain

Chain 4M:

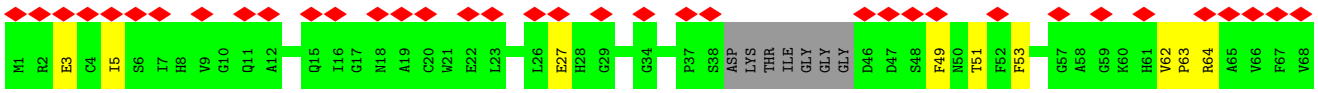


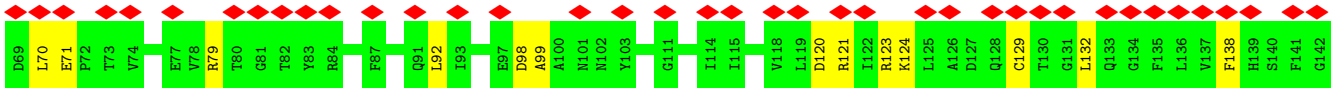


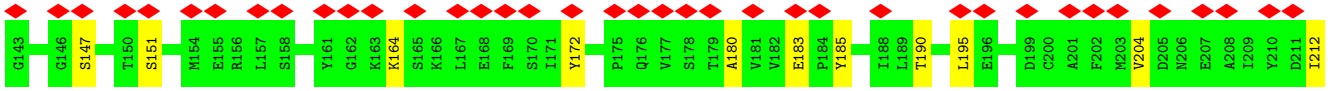


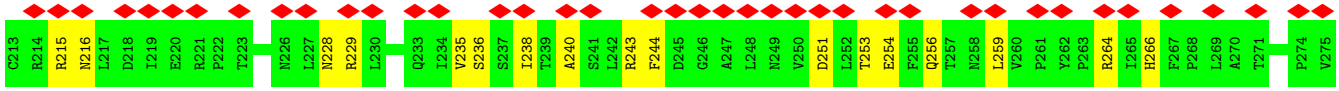
- Molecule 1: Tubulin alpha-1B chain

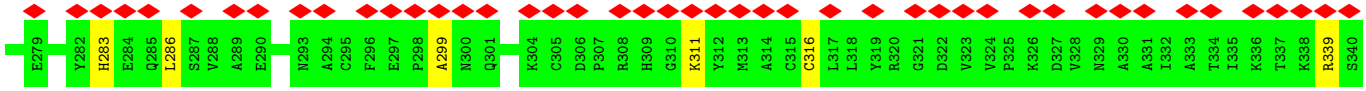
Chain 4N:

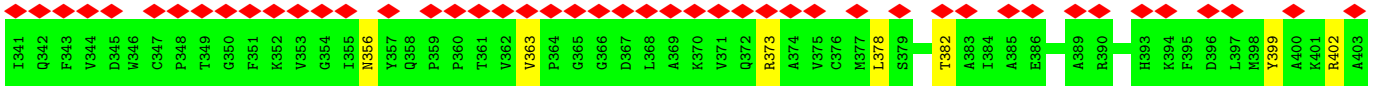


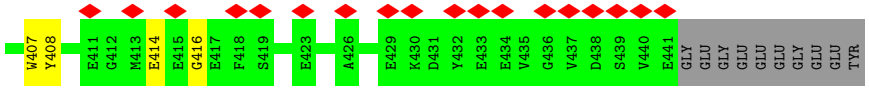






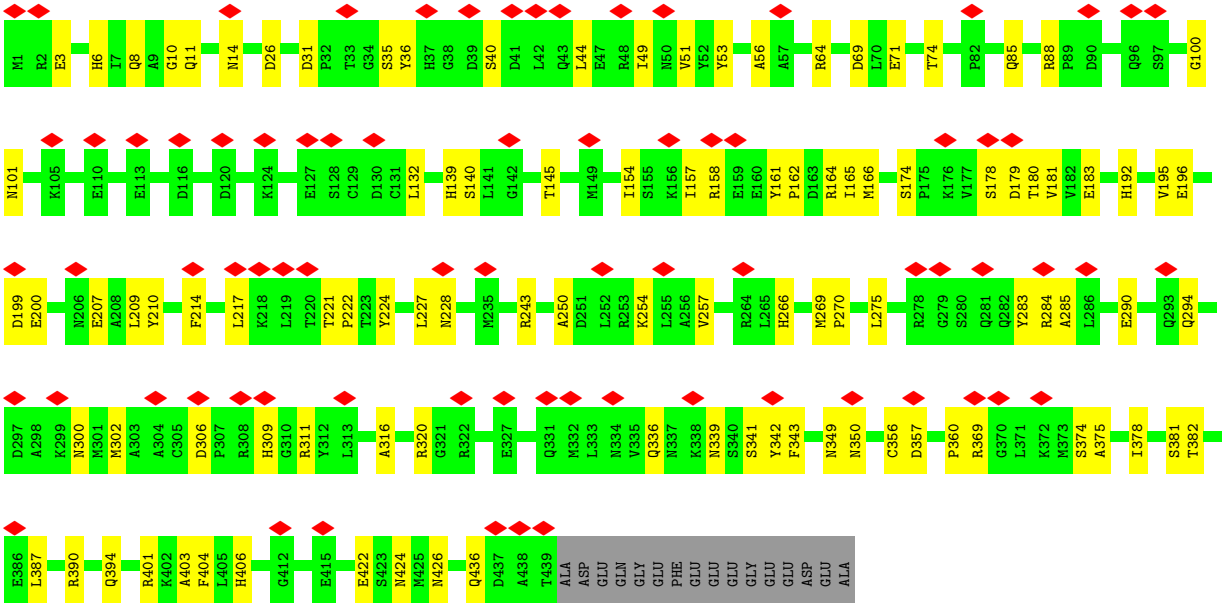






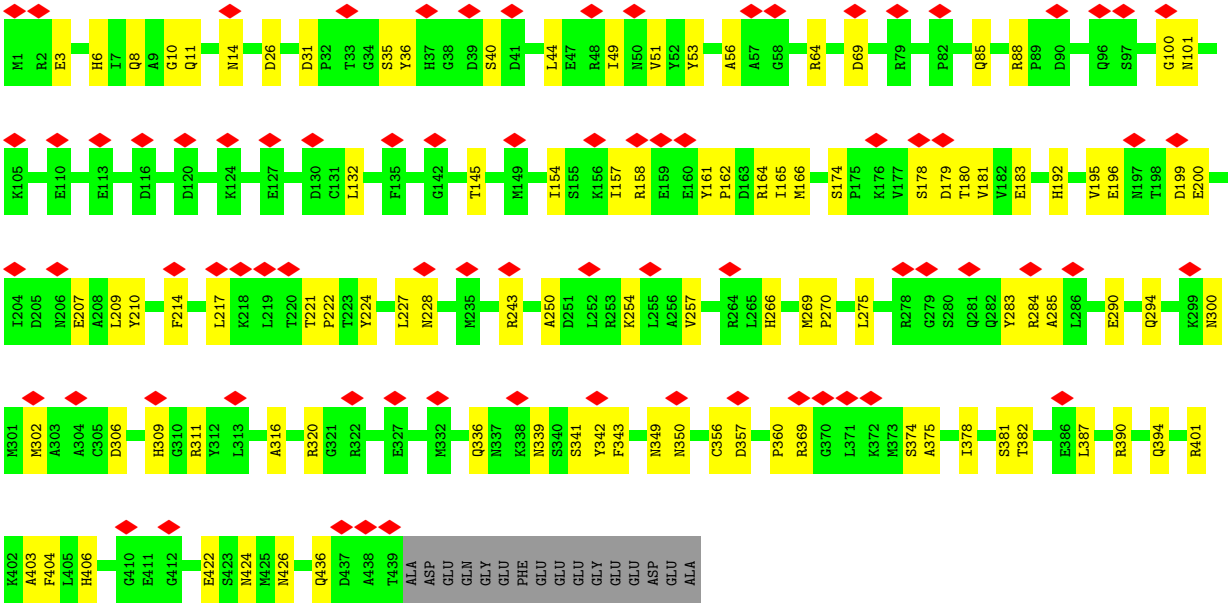
- Molecule 2: Tubulin beta chain

Chain 1H:



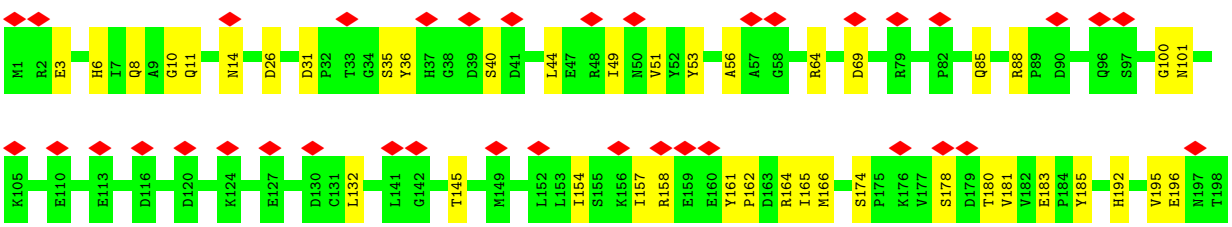
• Molecule 2: Tubulin beta chain

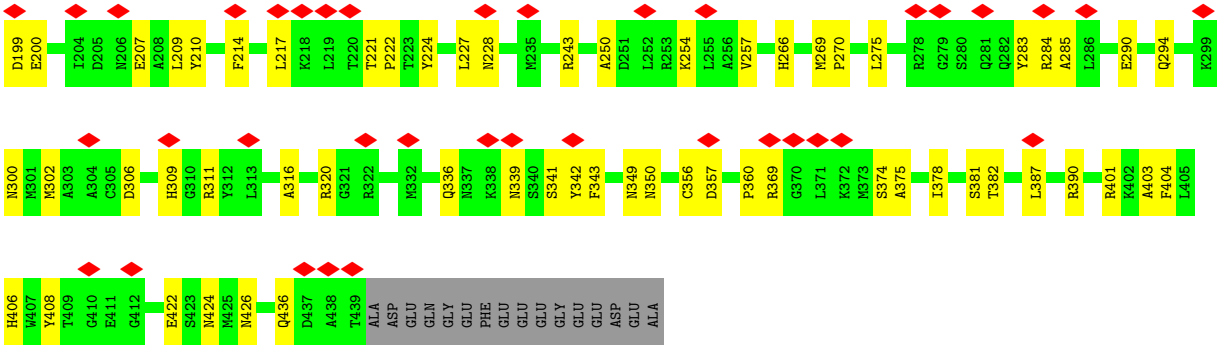
Chain 1O:



• Molecule 2: Tubulin beta chain

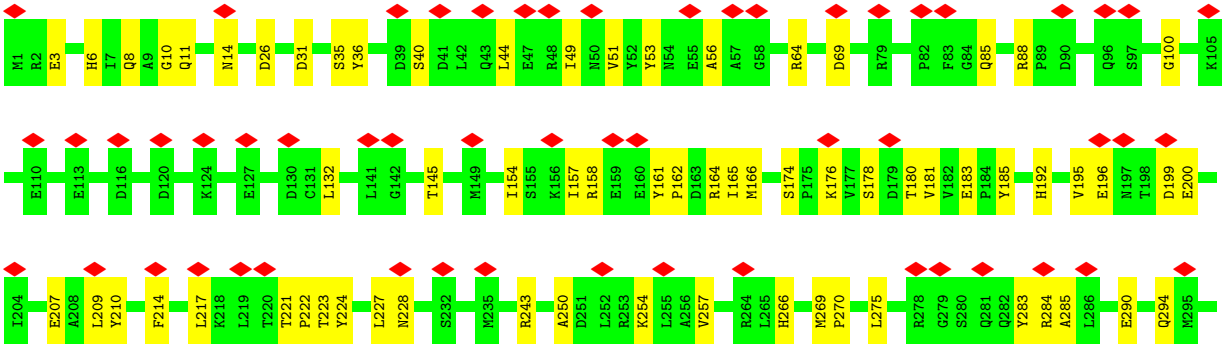
Chain 1P:





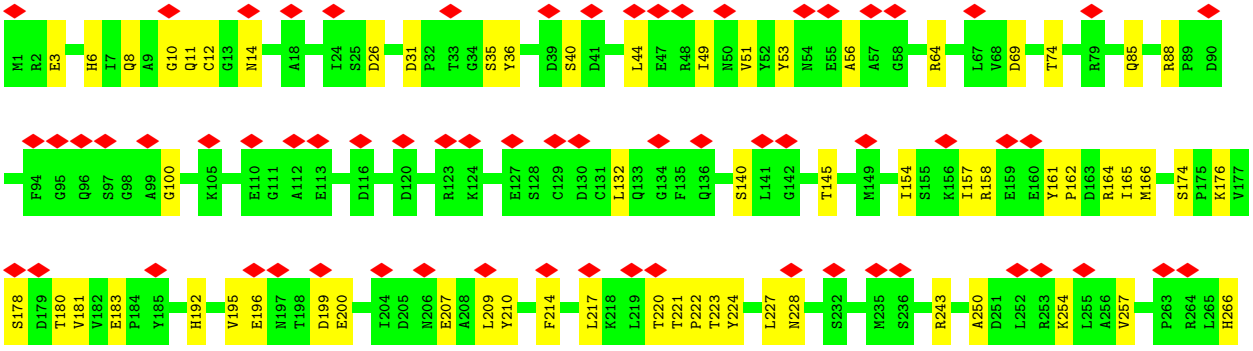
• Molecule 2: Tubulin beta chain

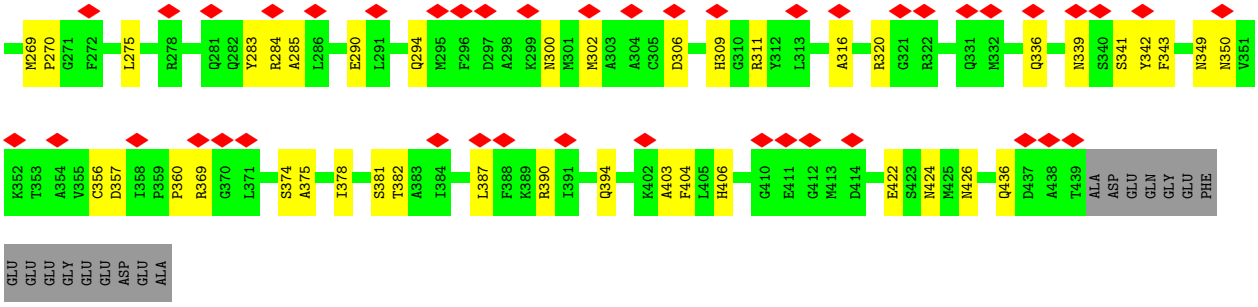
Chain 1Q:



• Molecule 2: Tubulin beta chain

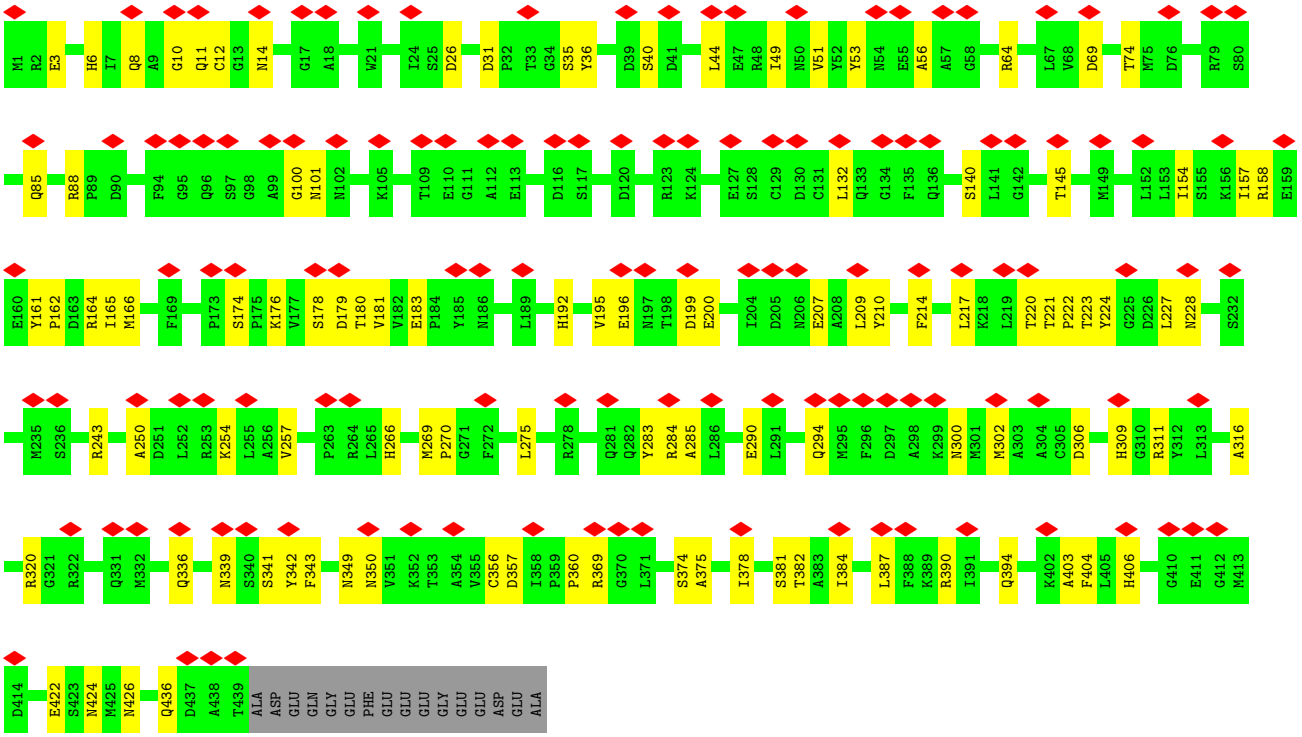
Chain 1R:





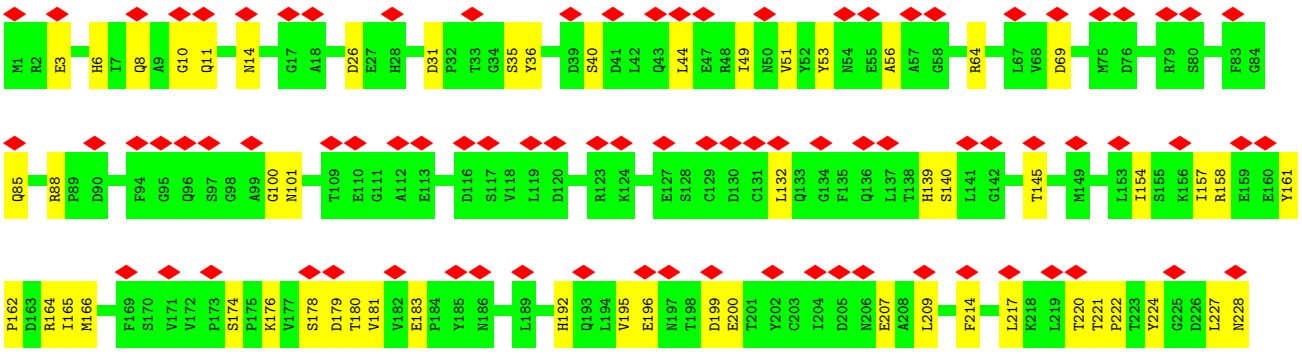
• Molecule 2: Tubulin beta chain

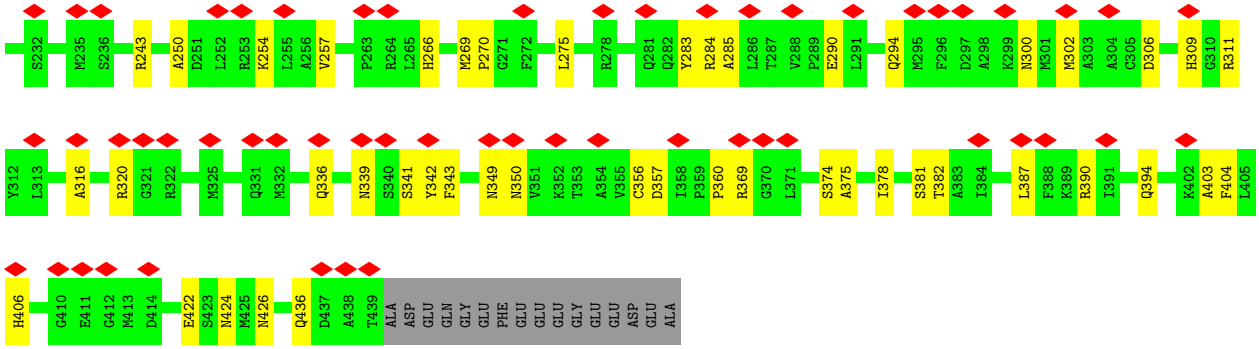
Chain 1S:



• Molecule 2: Tubulin beta chain

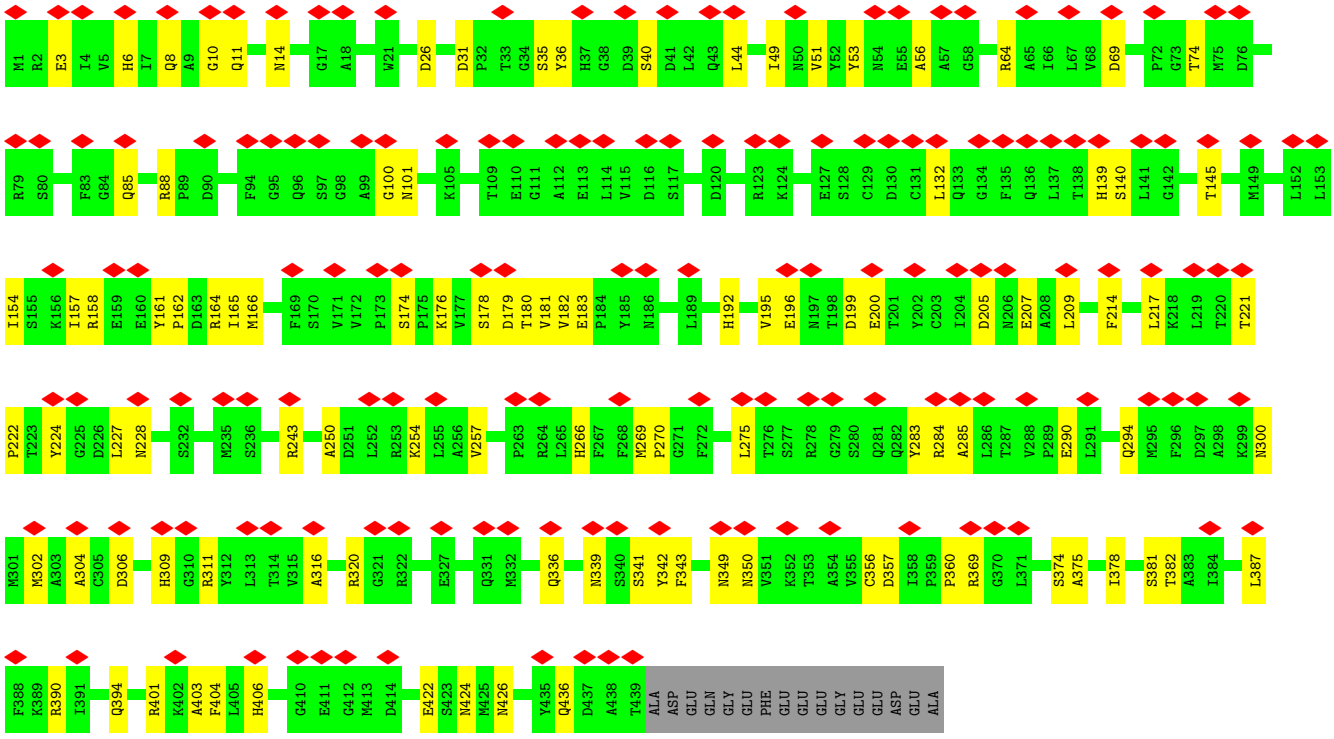
Chain 1T:





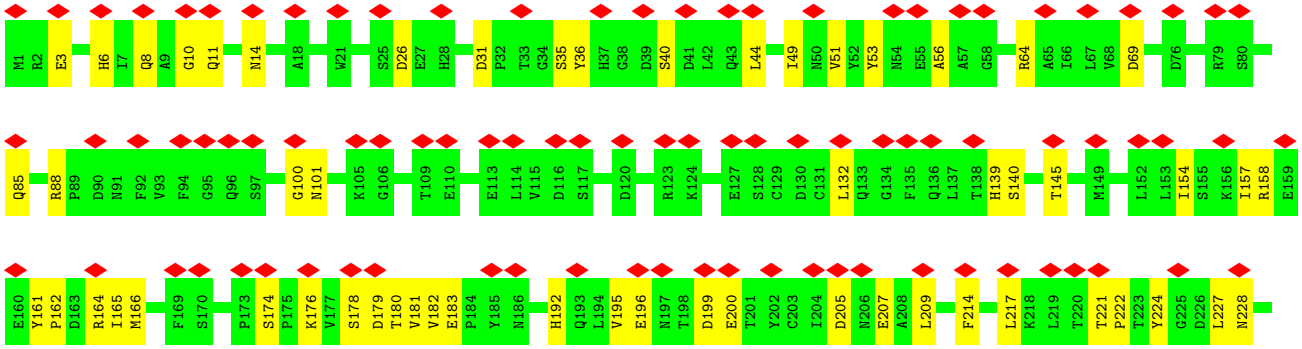
• Molecule 2: Tubulin beta chain

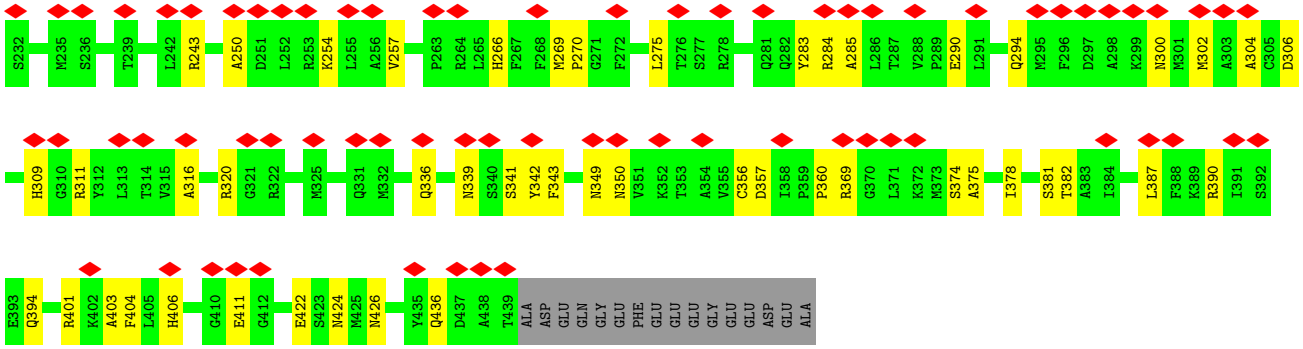
Chain 1U:



• Molecule 2: Tubulin beta chain

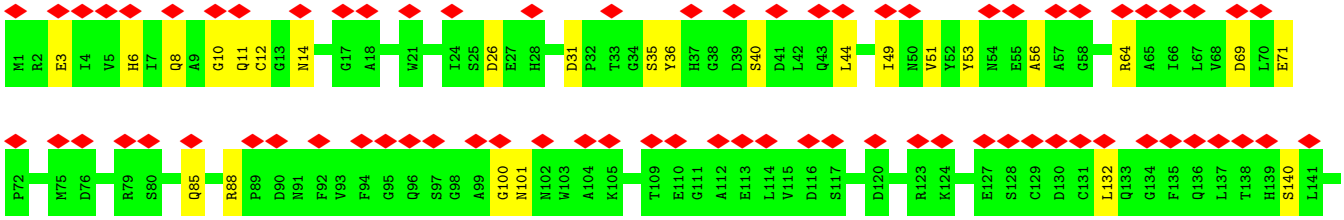
Chain 1V:





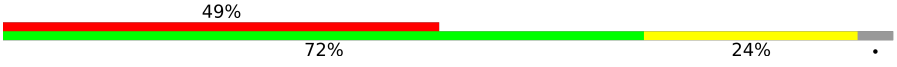
• Molecule 2: Tubulin beta chain

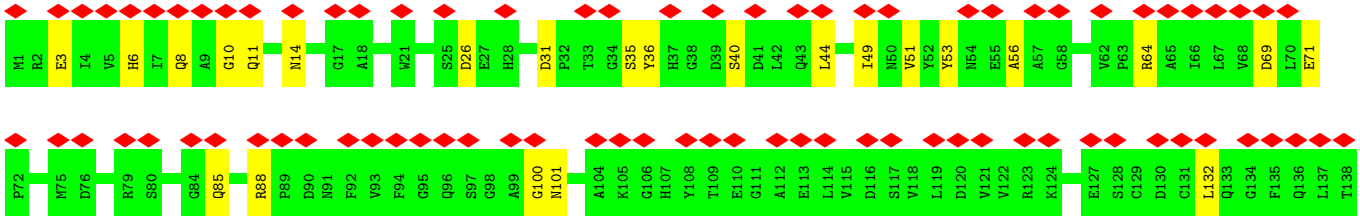
Chain 1W:

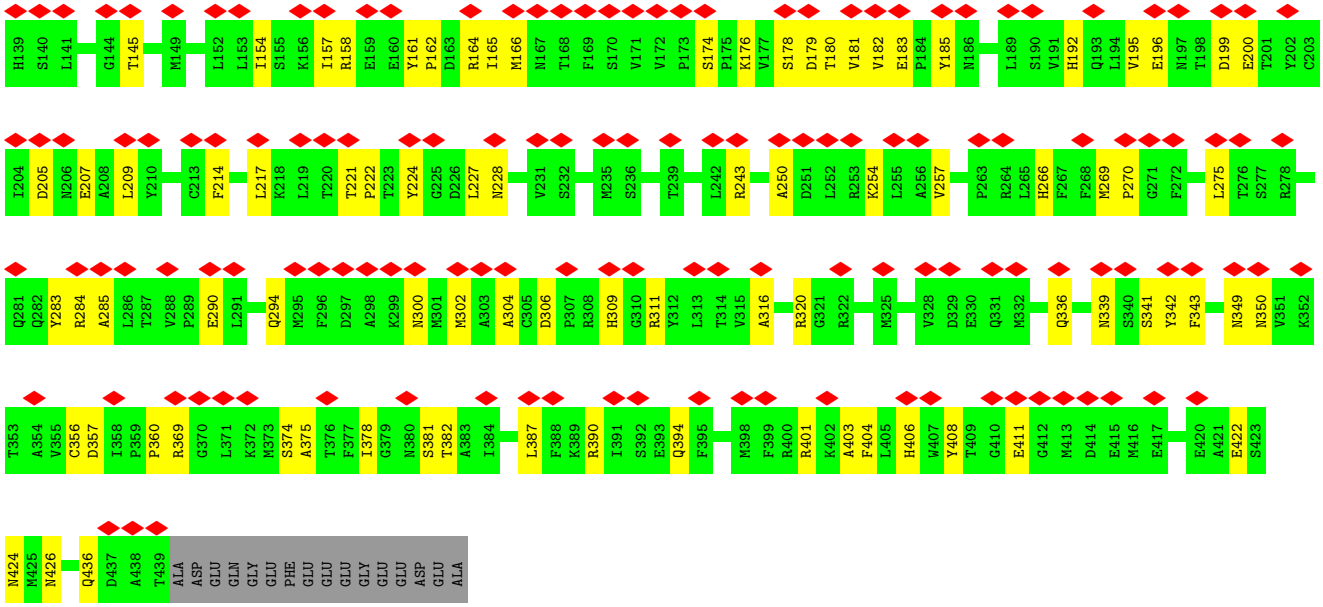


• Molecule 2: Tubulin beta chain

Chain 1X:

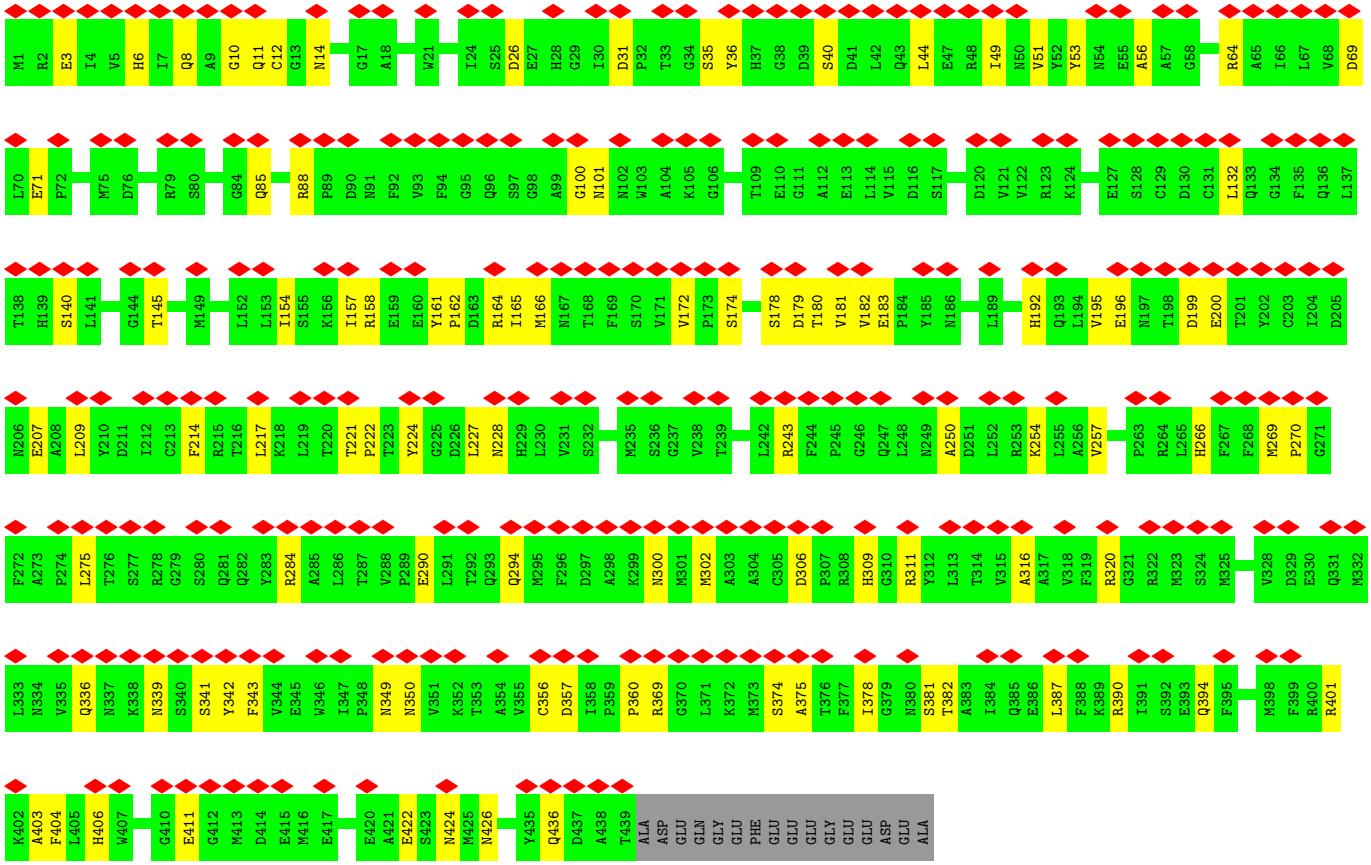






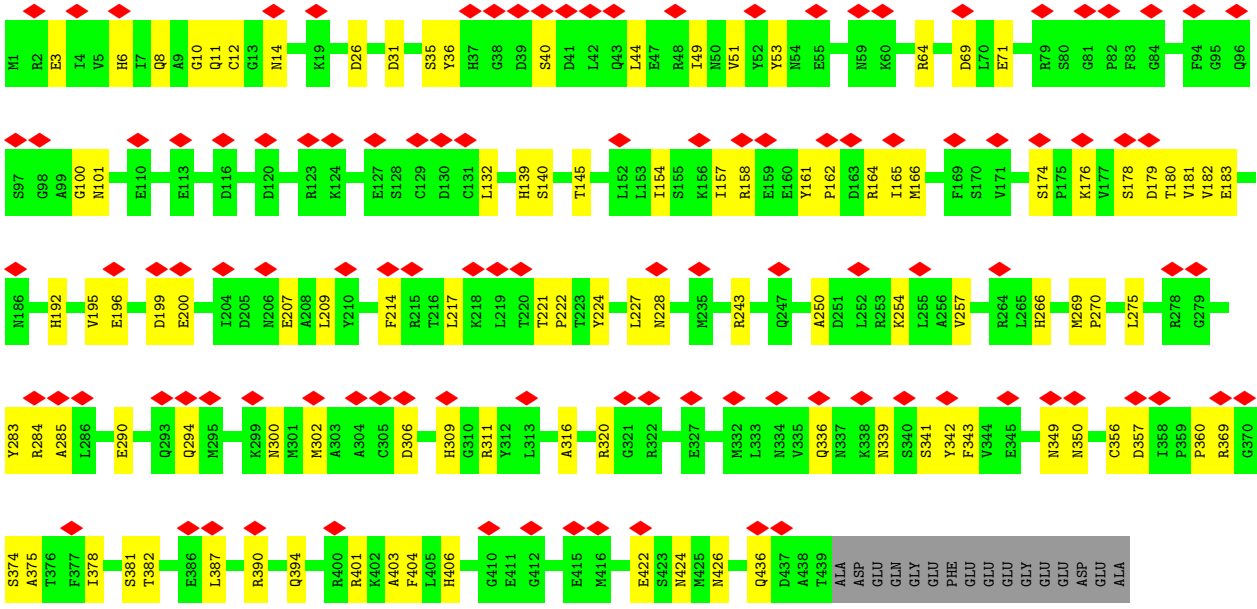
• Molecule 2: Tubulin beta chain

Chain 1Y:



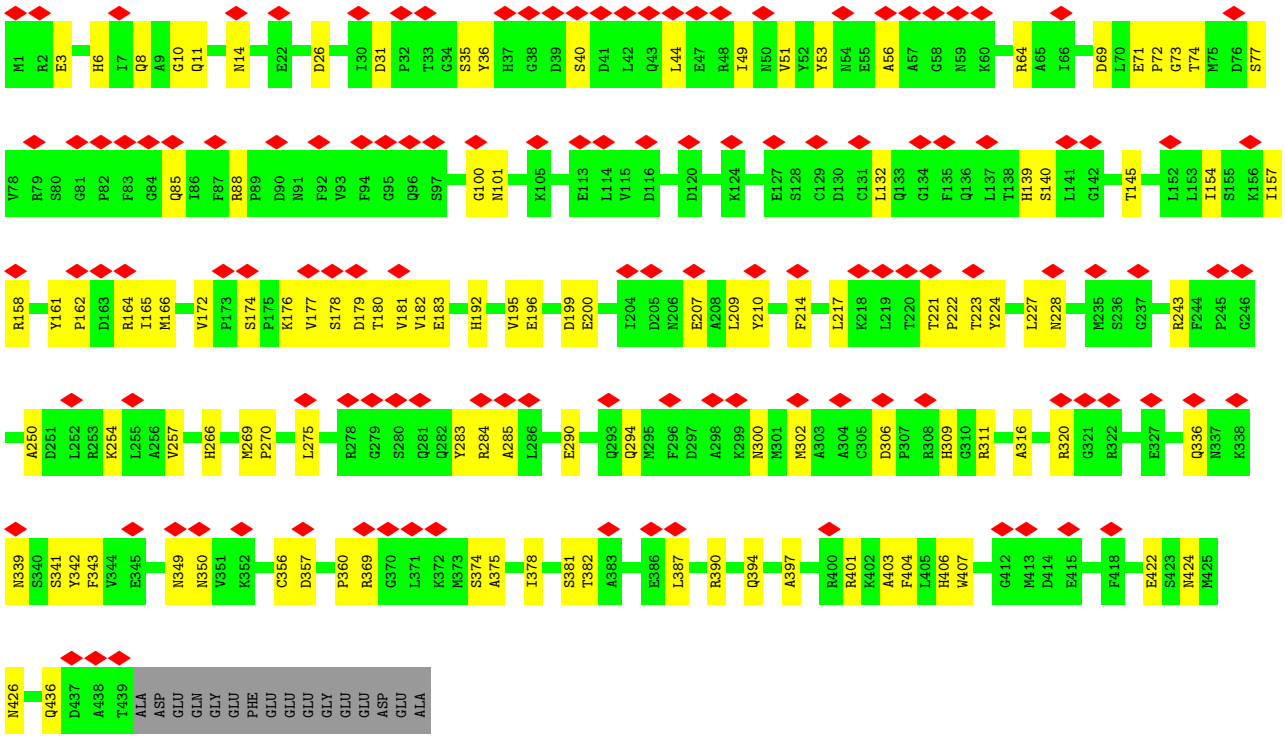
• Molecule 2: Tubulin beta chain

Chain 1Z:



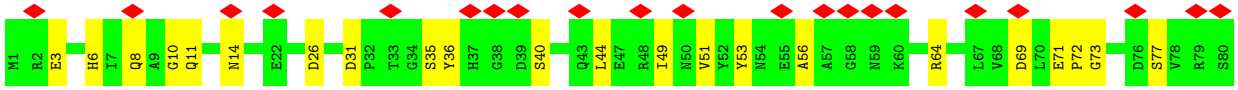
• Molecule 2: Tubulin beta chain

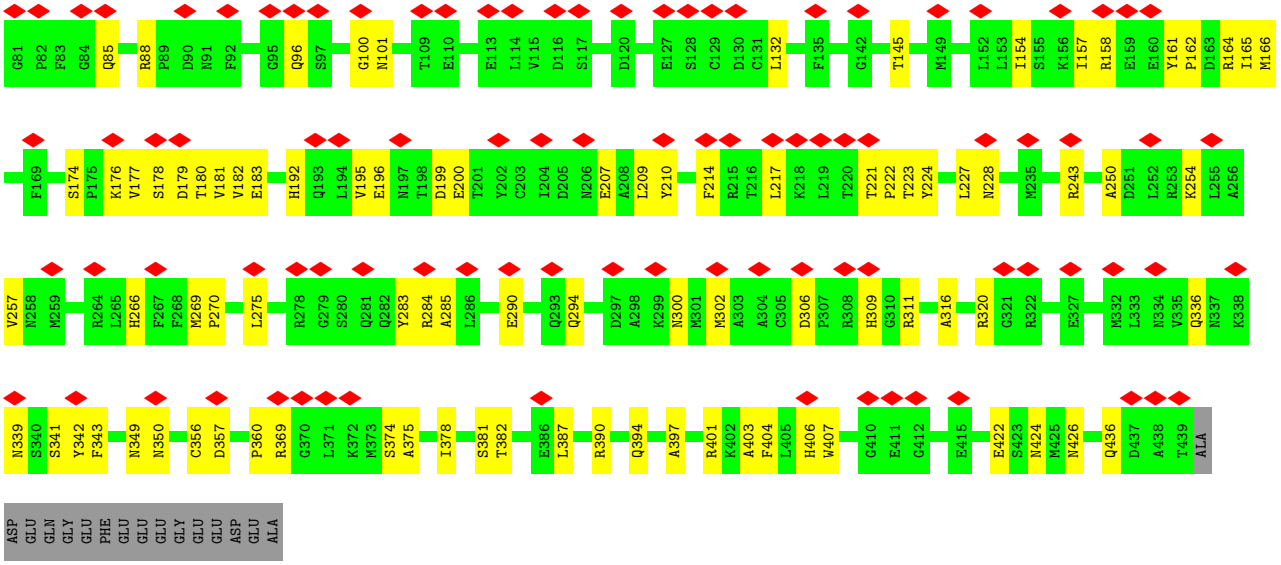
Chain 2H:



• Molecule 2: Tubulin beta chain

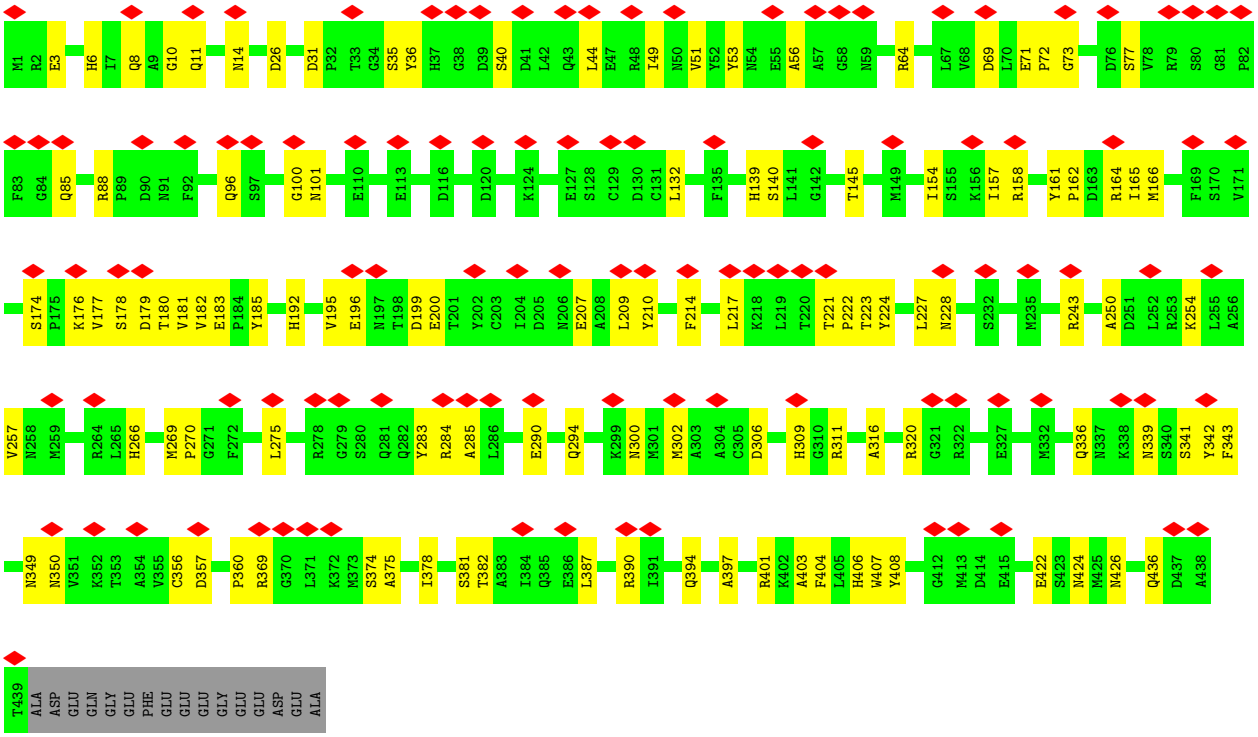
Chain 2O:





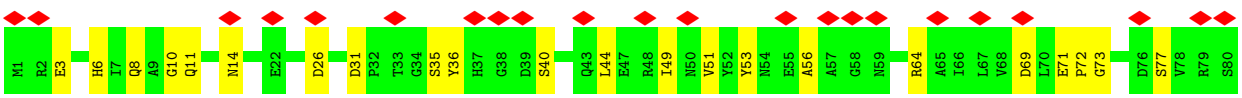
• Molecule 2: Tubulin beta chain

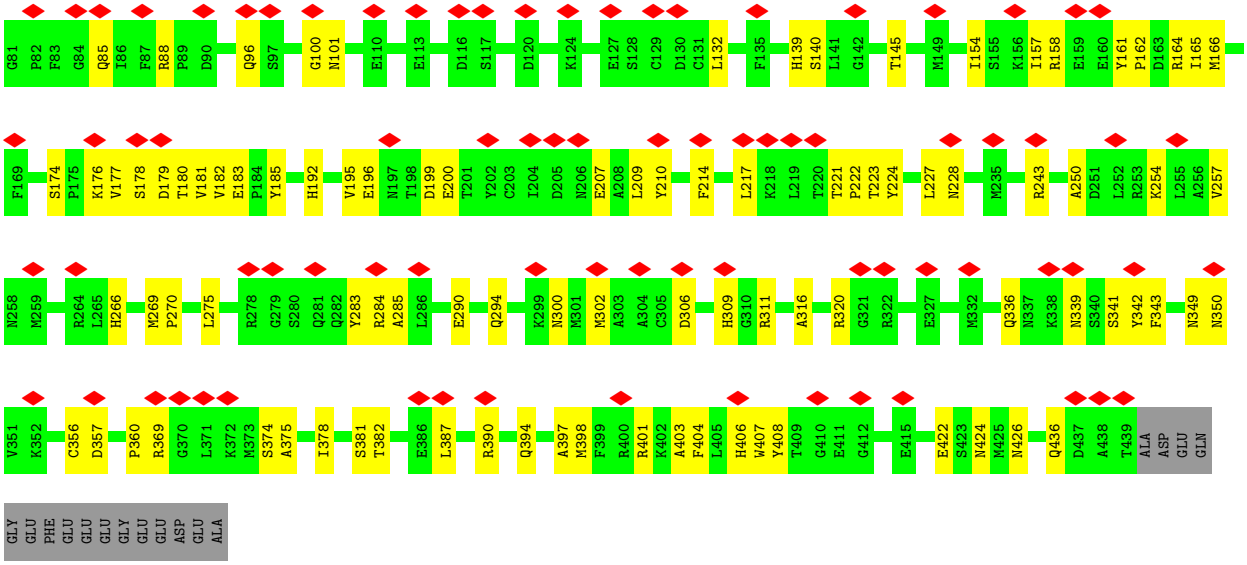
Chain 2P:



• Molecule 2: Tubulin beta chain

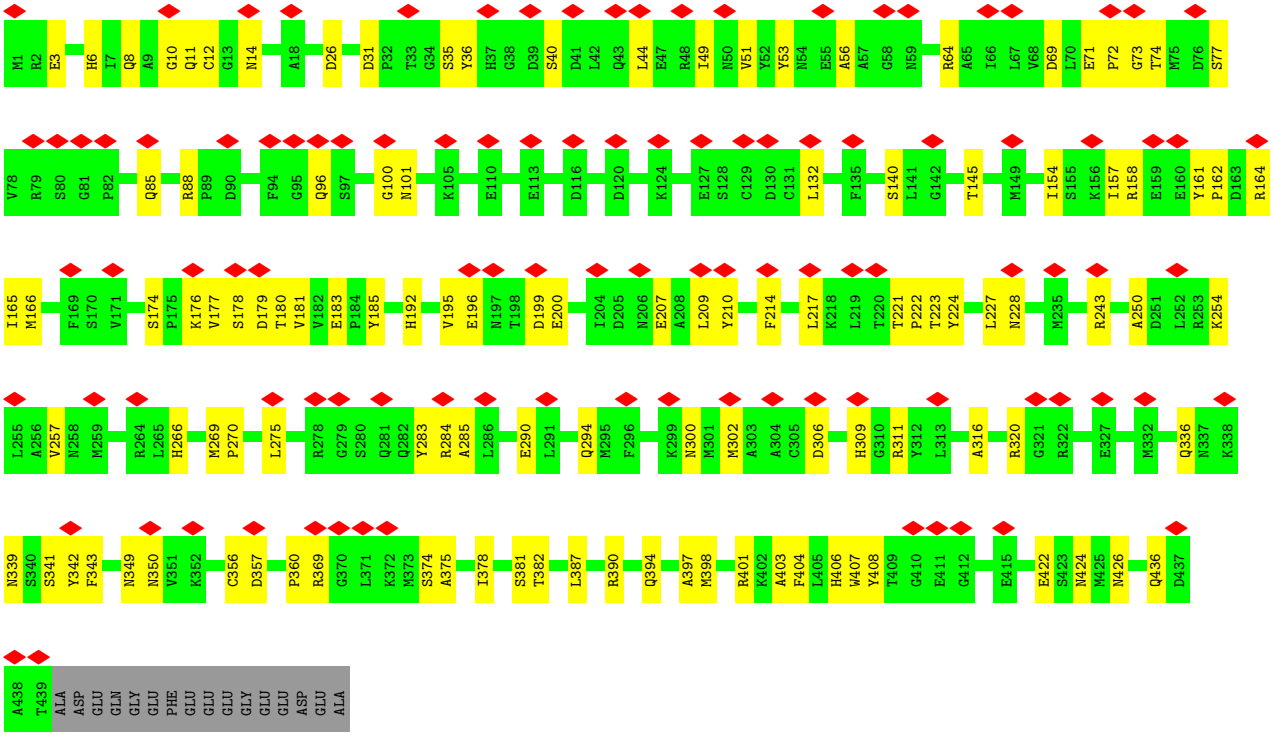
Chain 2Q:





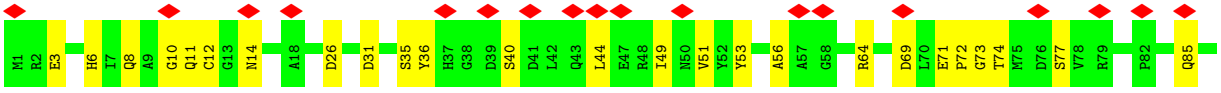
• Molecule 2: Tubulin beta chain

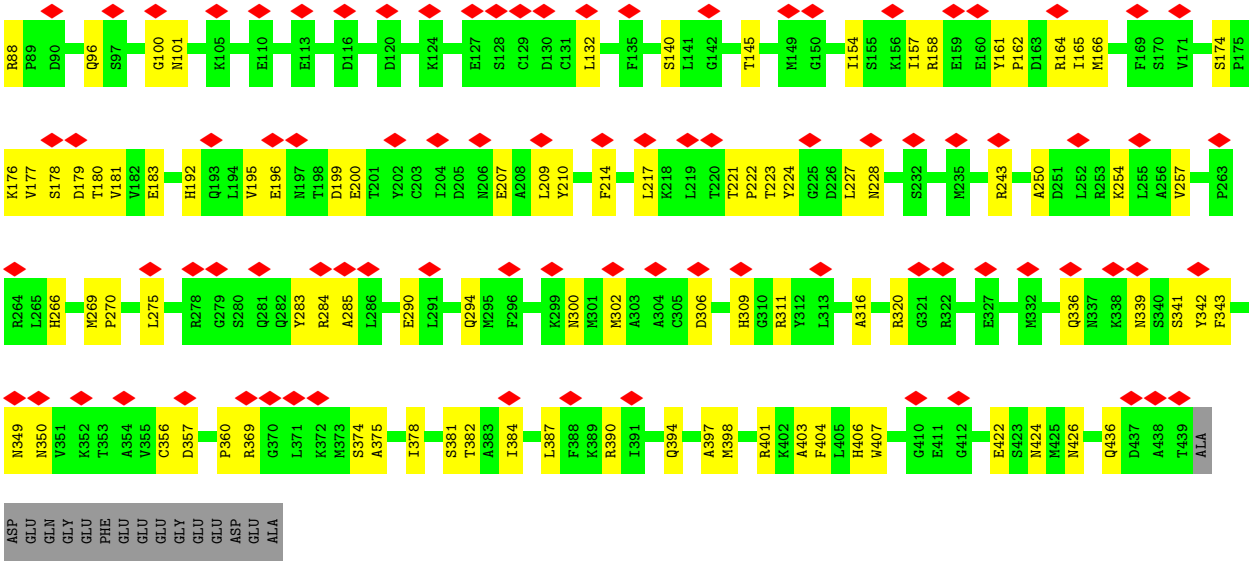
Chain 2R:



• Molecule 2: Tubulin beta chain

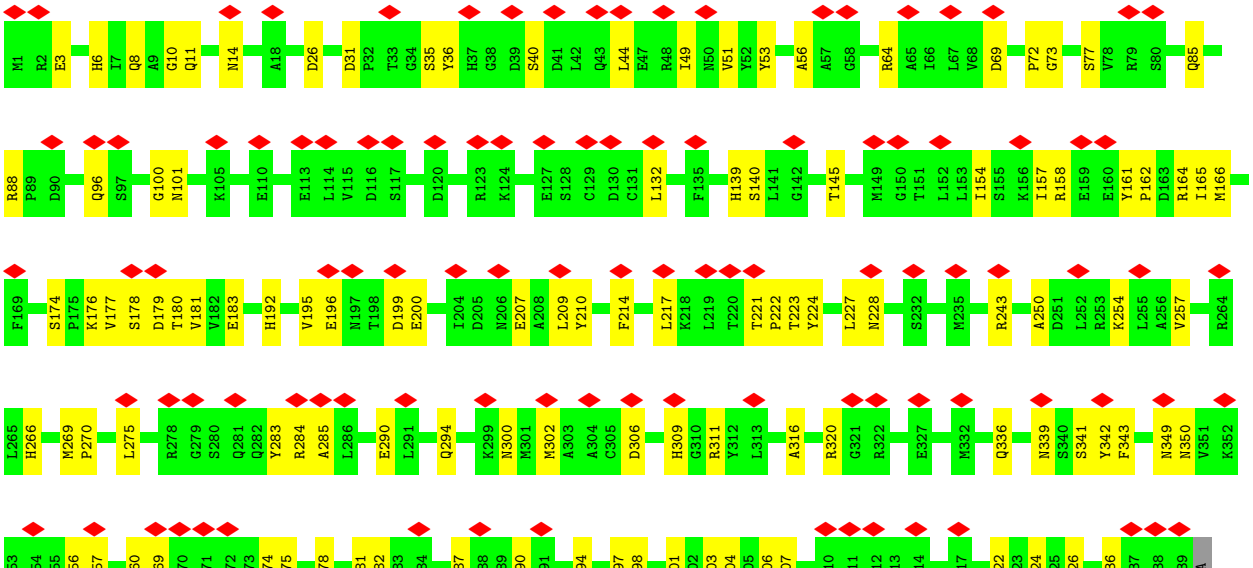
Chain 2S:





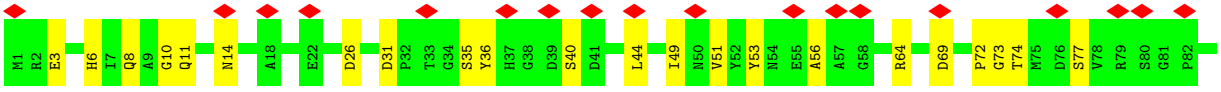
• Molecule 2: Tubulin beta chain

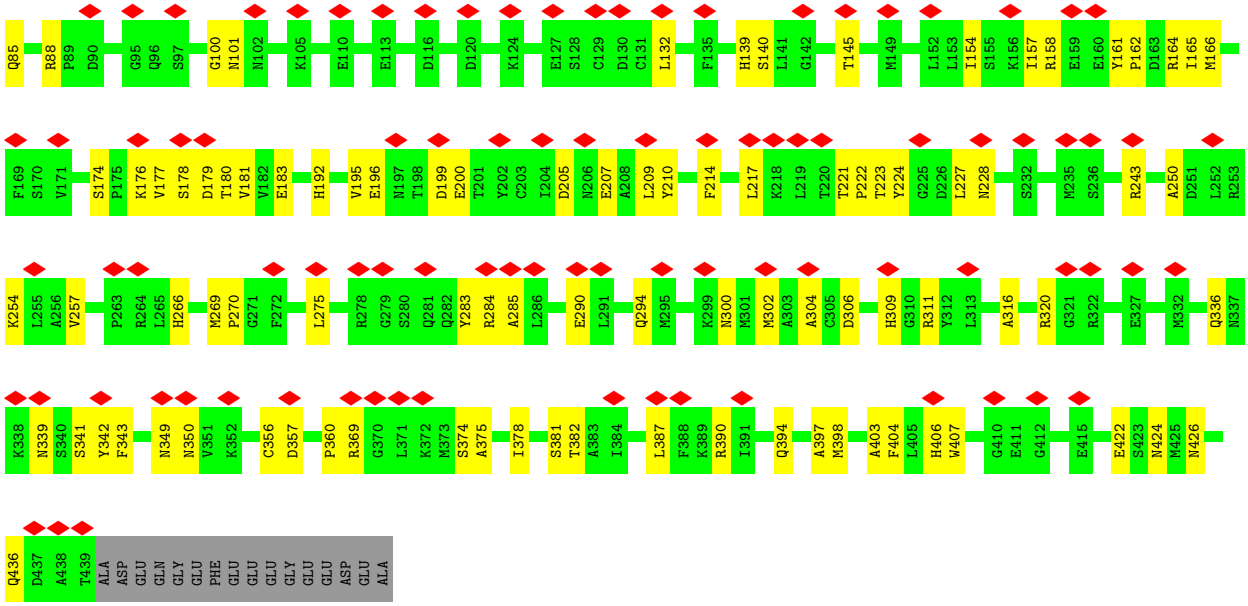
Chain 2T:



• Molecule 2: Tubulin beta chain

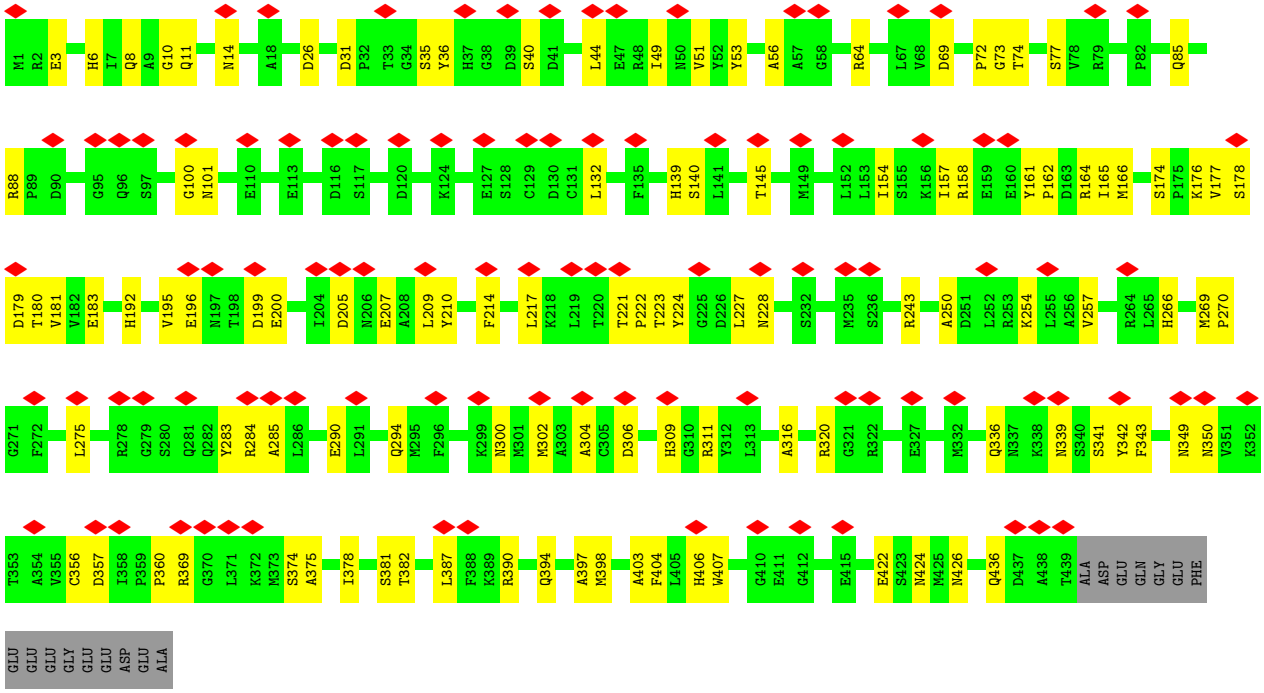
Chain 2U:





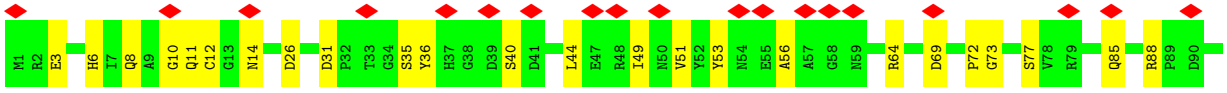
• Molecule 2: Tubulin beta chain

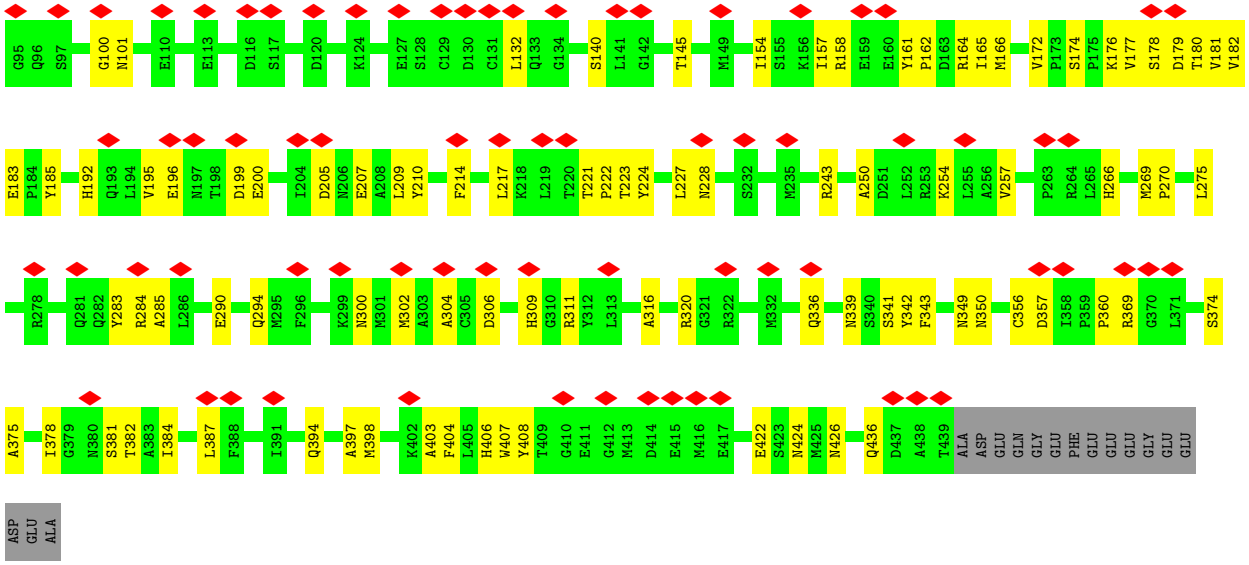
Chain 2V:



• Molecule 2: Tubulin beta chain

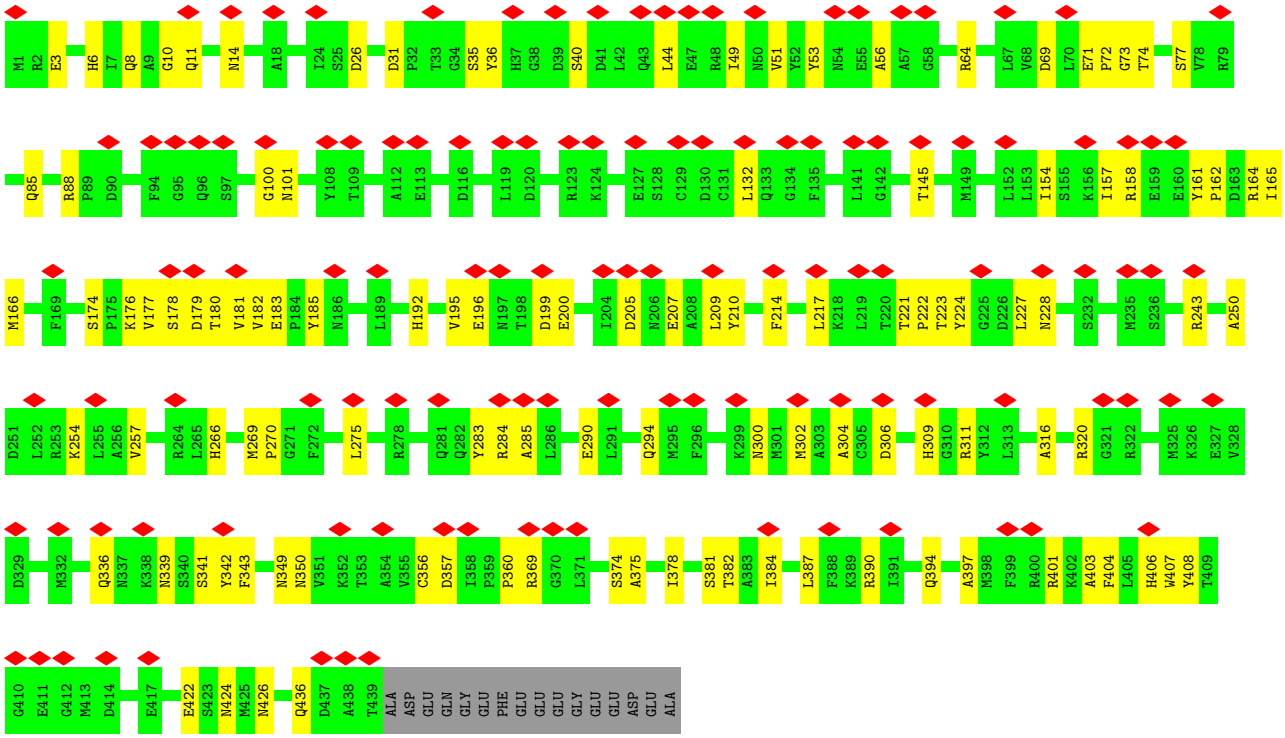
Chain 2W:





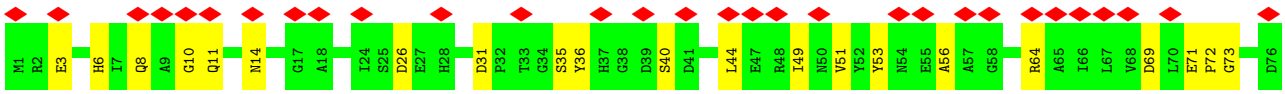
• Molecule 2: Tubulin beta chain

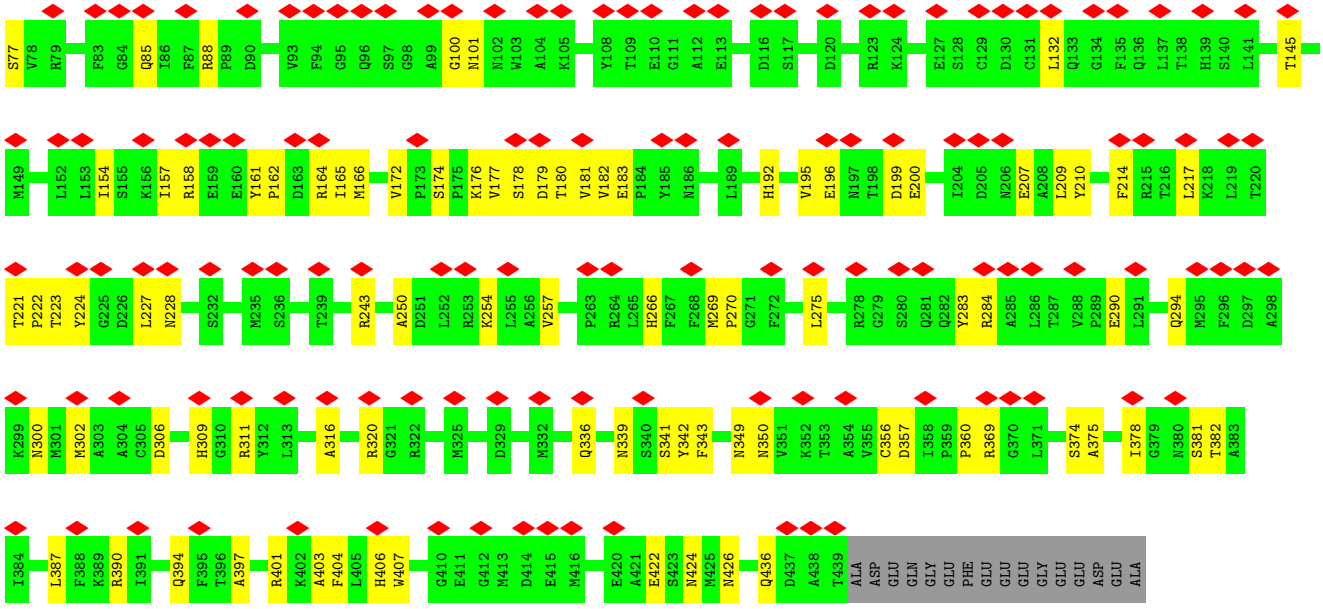
Chain 2X:



• Molecule 2: Tubulin beta chain

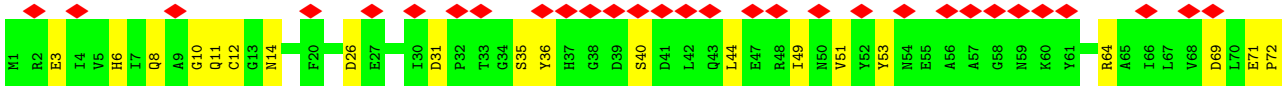
Chain 2Y:

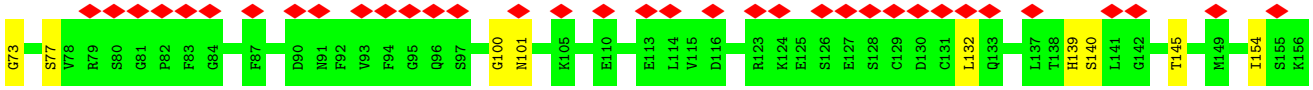


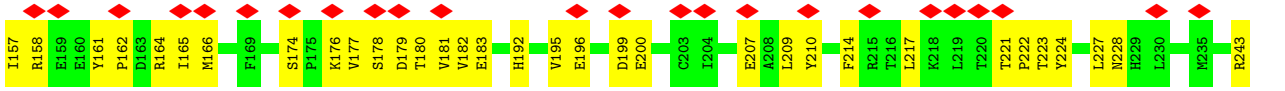


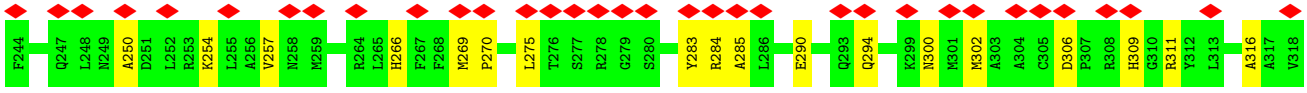
• Molecule 2: Tubulin beta chain

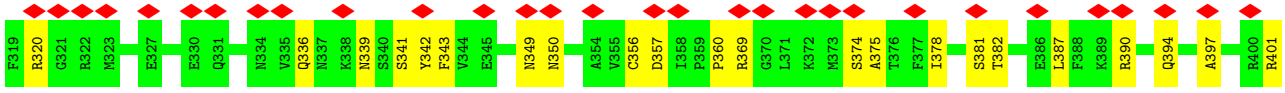
Chain 2Z:

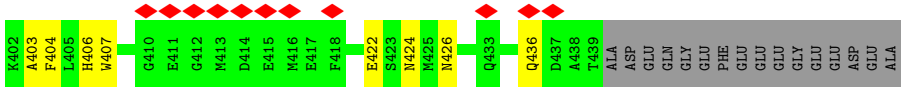






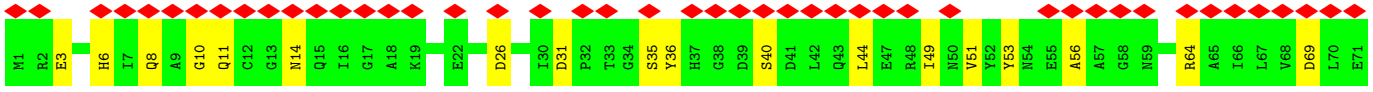


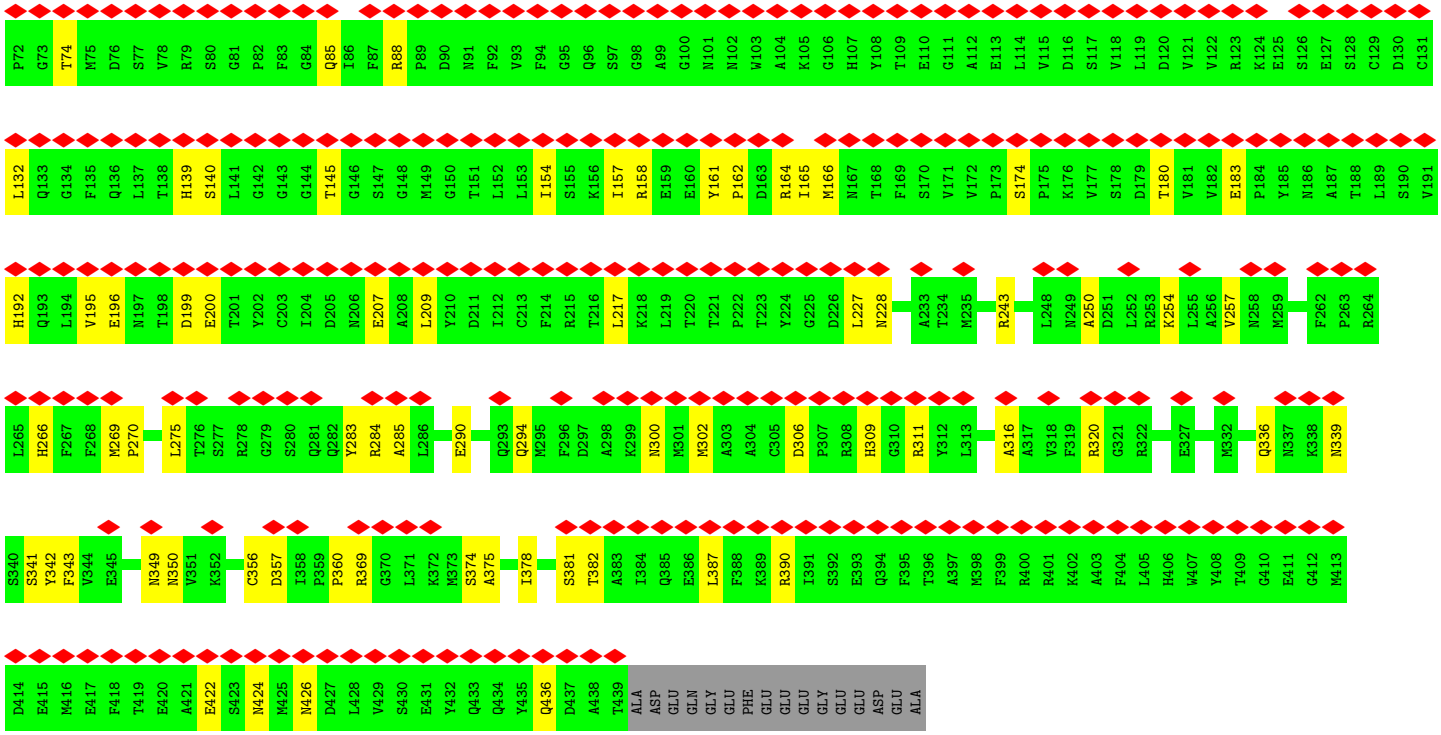




• Molecule 2: Tubulin beta chain

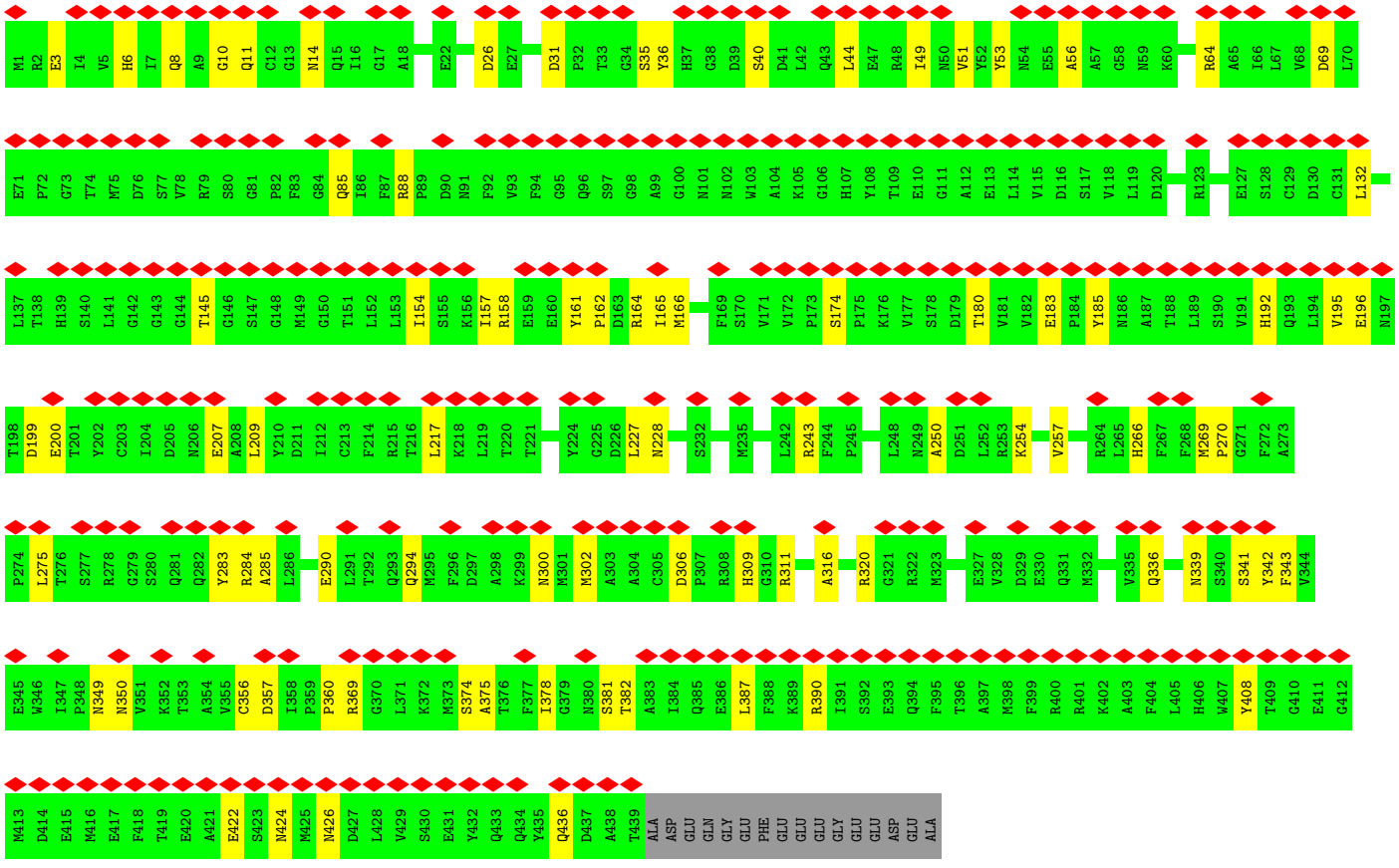
Chain 3H:





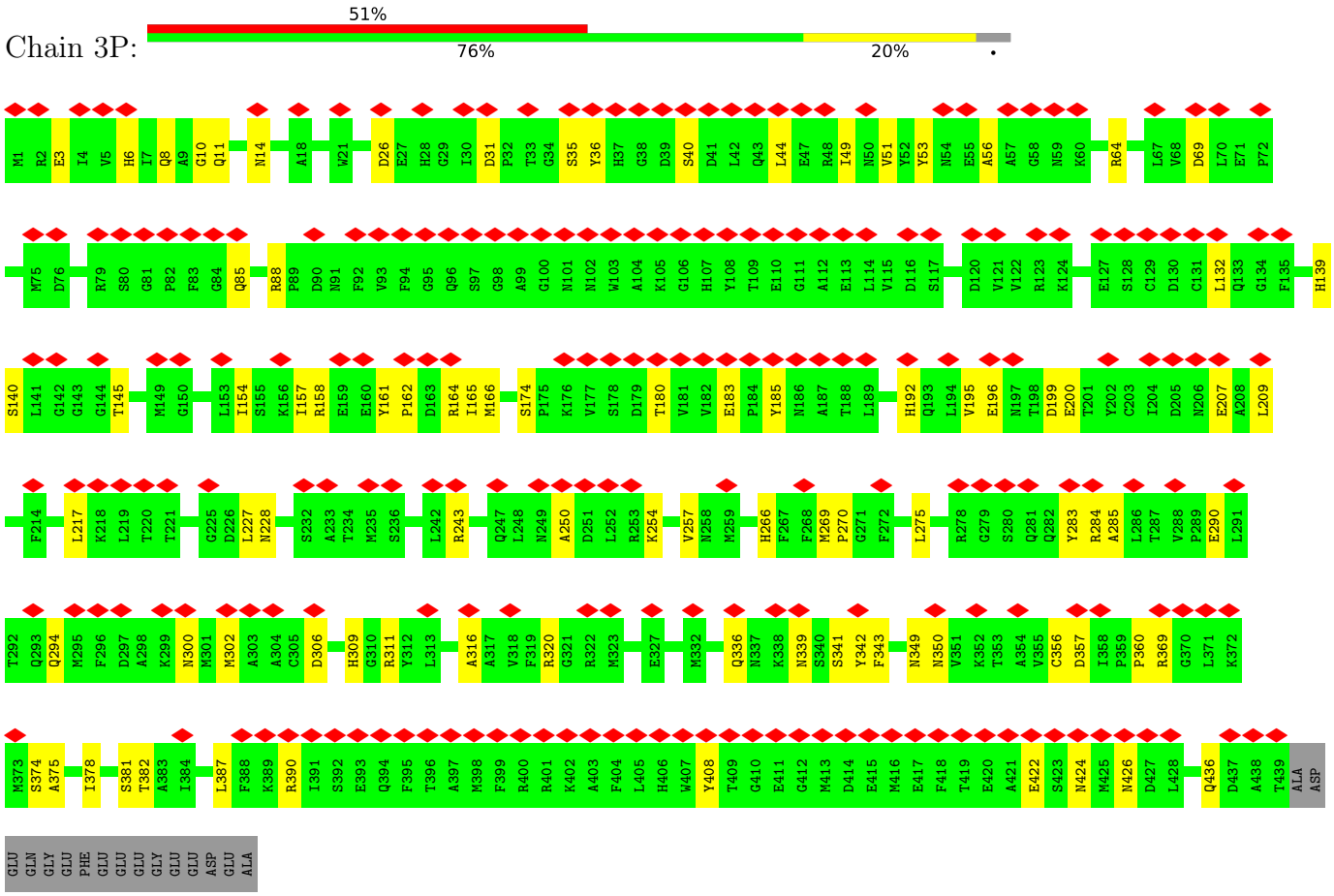
- Molecule 2: Tubulin beta chain

Chain 3O:



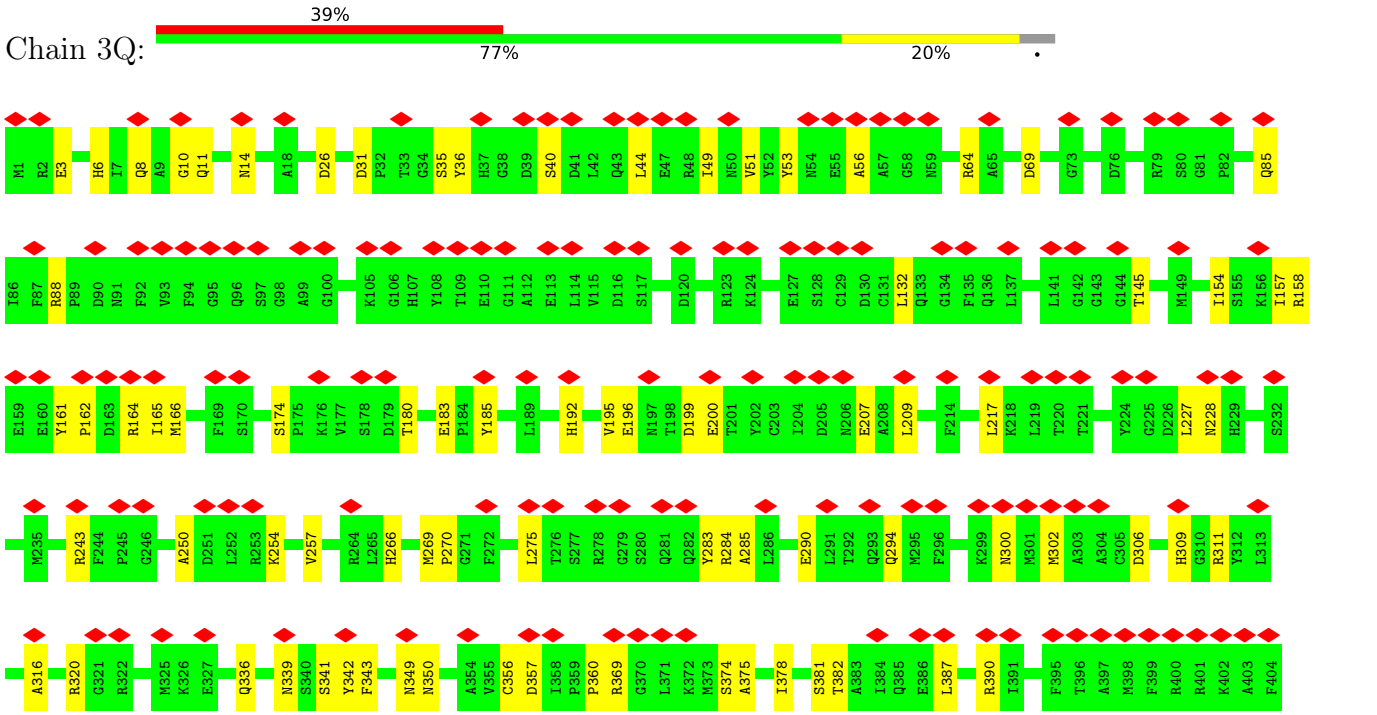
• Molecule 2: Tubulin beta chain

Chain 3P:



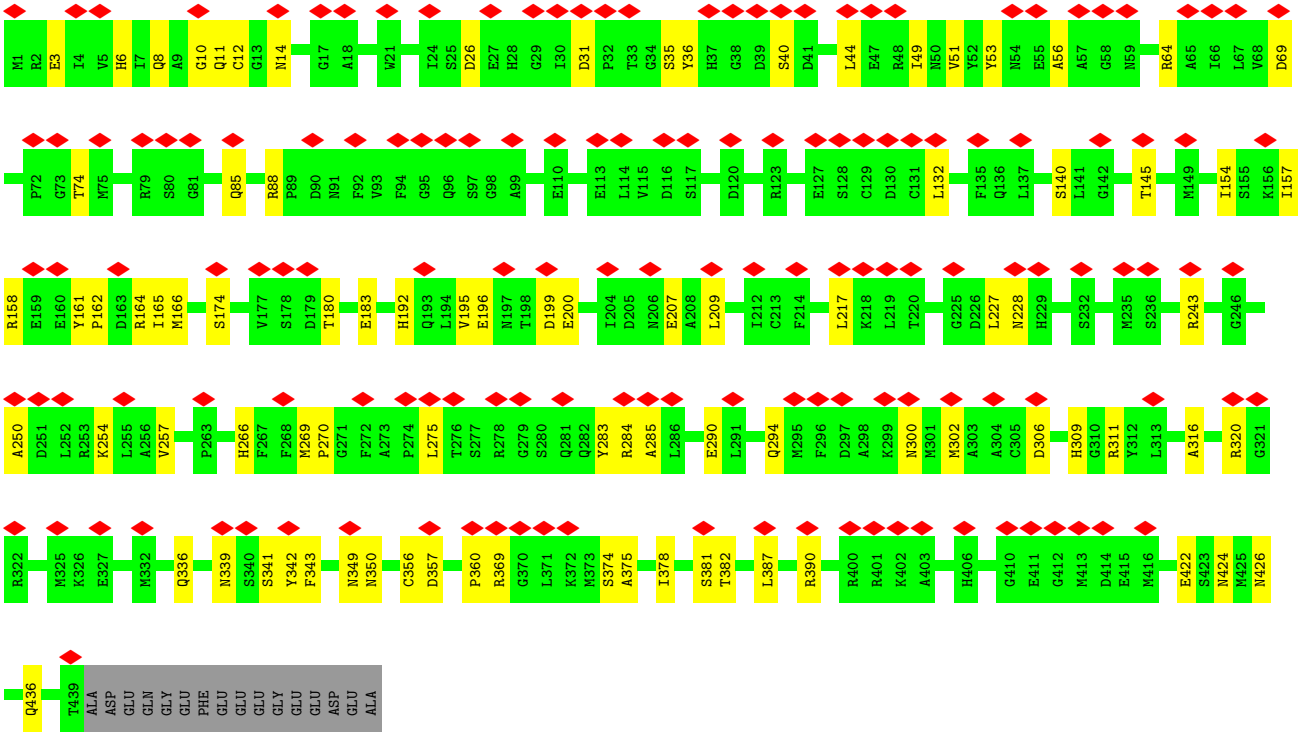
• Molecule 2: Tubulin beta chain

Chain 3Q:



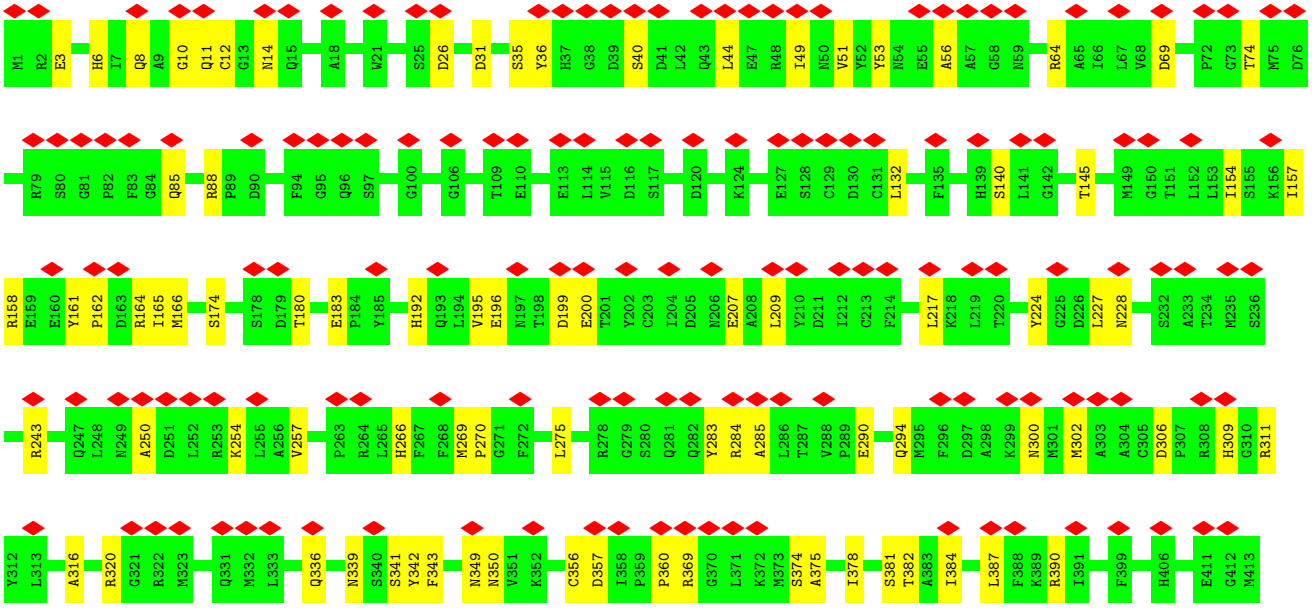
• Molecule 2: Tubulin beta chain

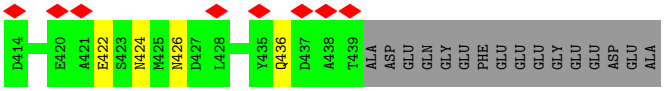
Chain 3R:



• Molecule 2: Tubulin beta chain

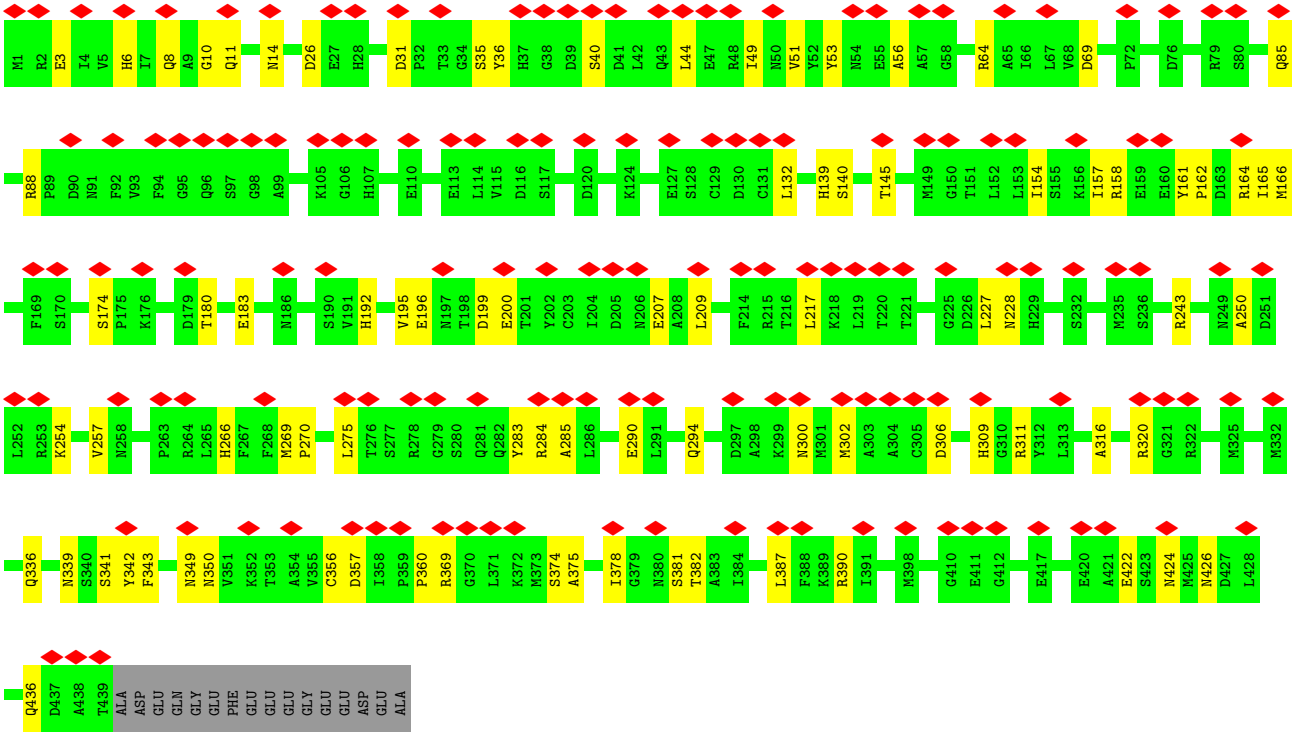
Chain 3S:





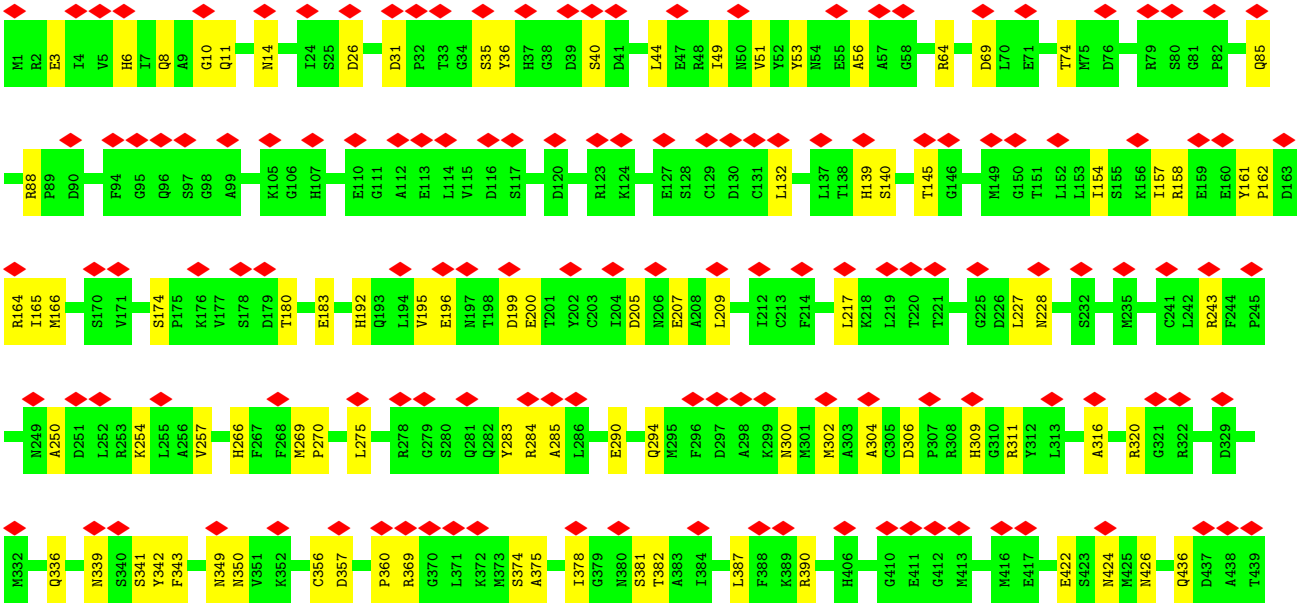
• Molecule 2: Tubulin beta chain

Chain 3T:



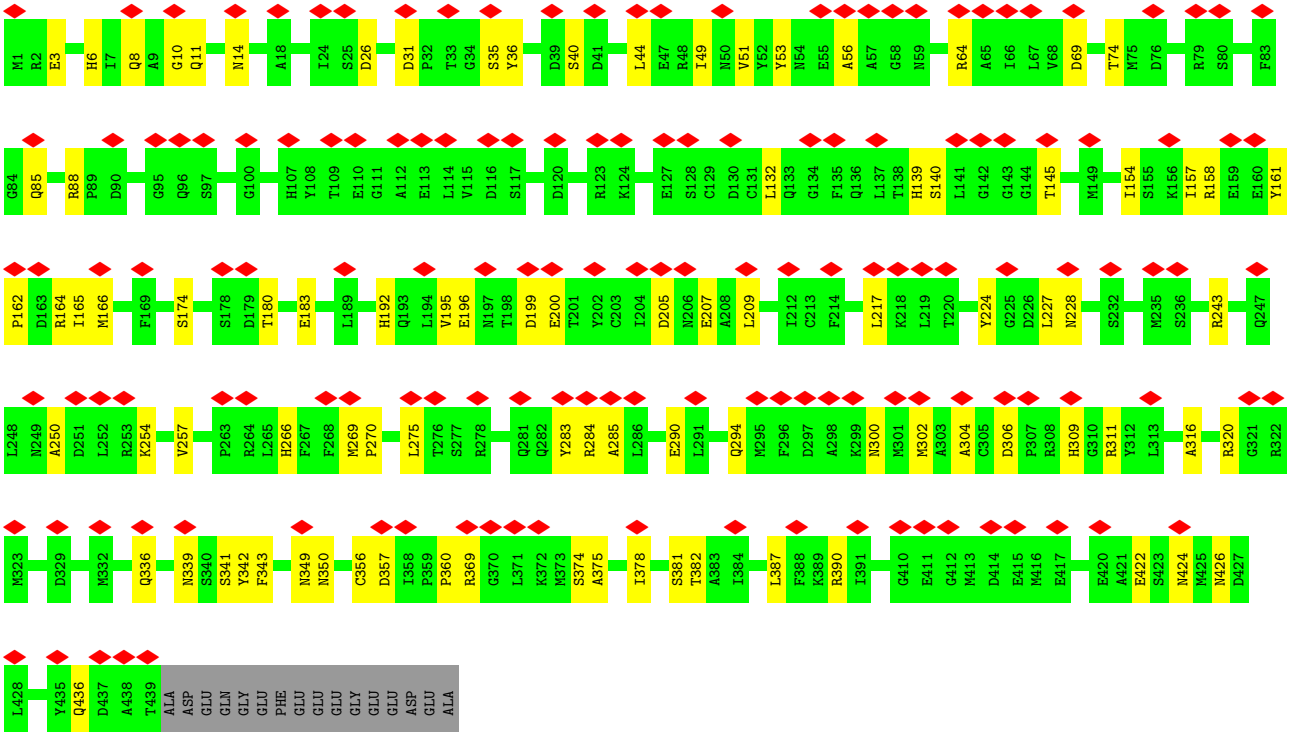
• Molecule 2: Tubulin beta chain

Chain 3U:



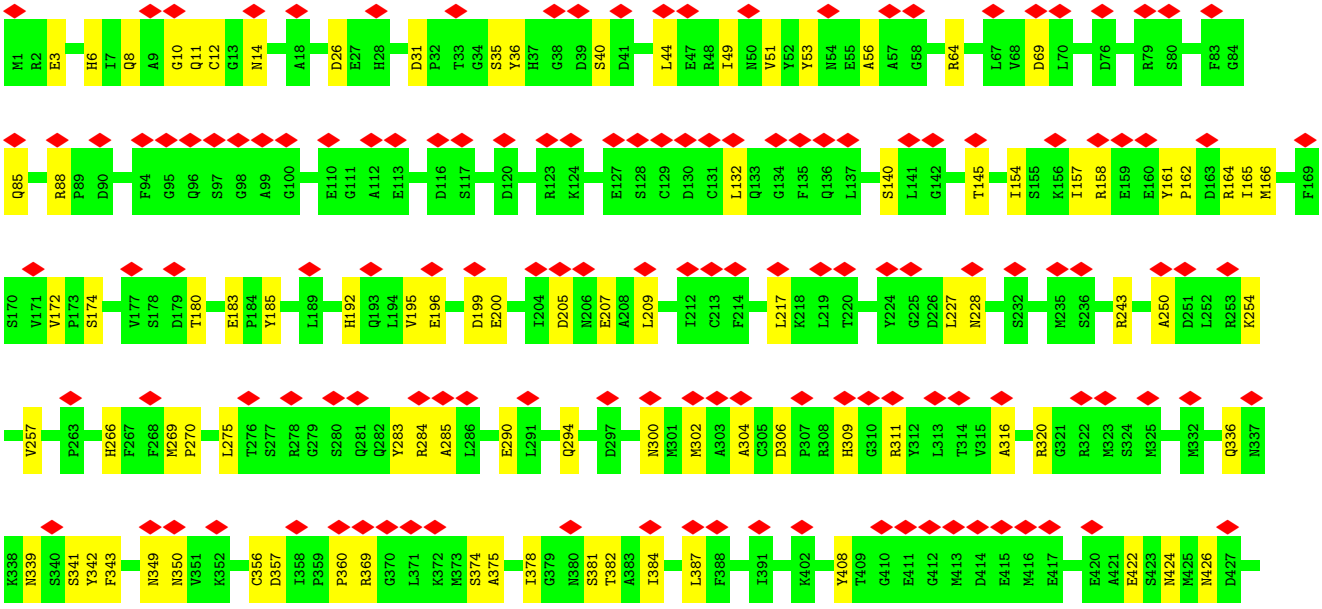
• Molecule 2: Tubulin beta chain

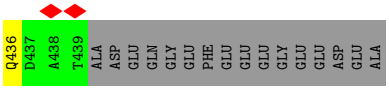
Chain 3V:



• Molecule 2: Tubulin beta chain

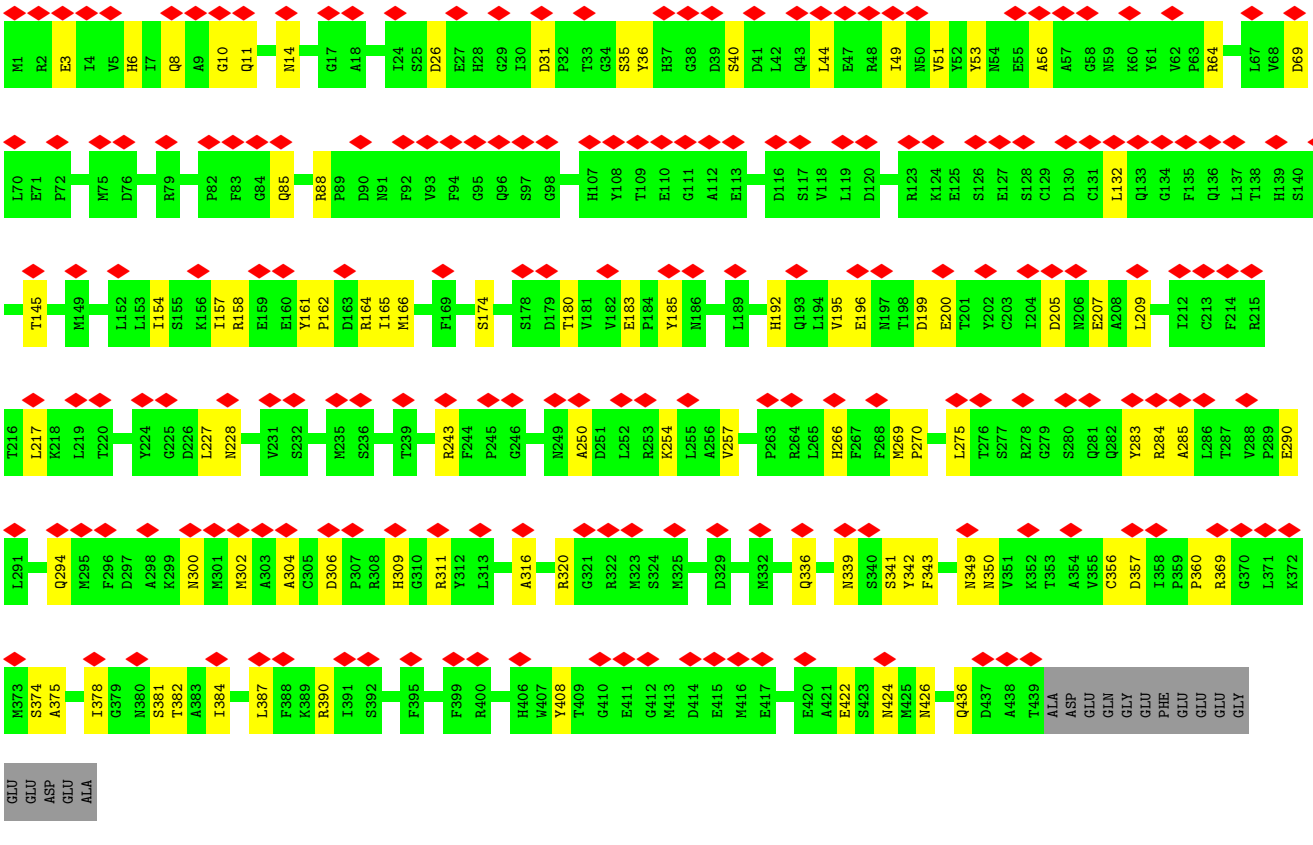
Chain 3W:





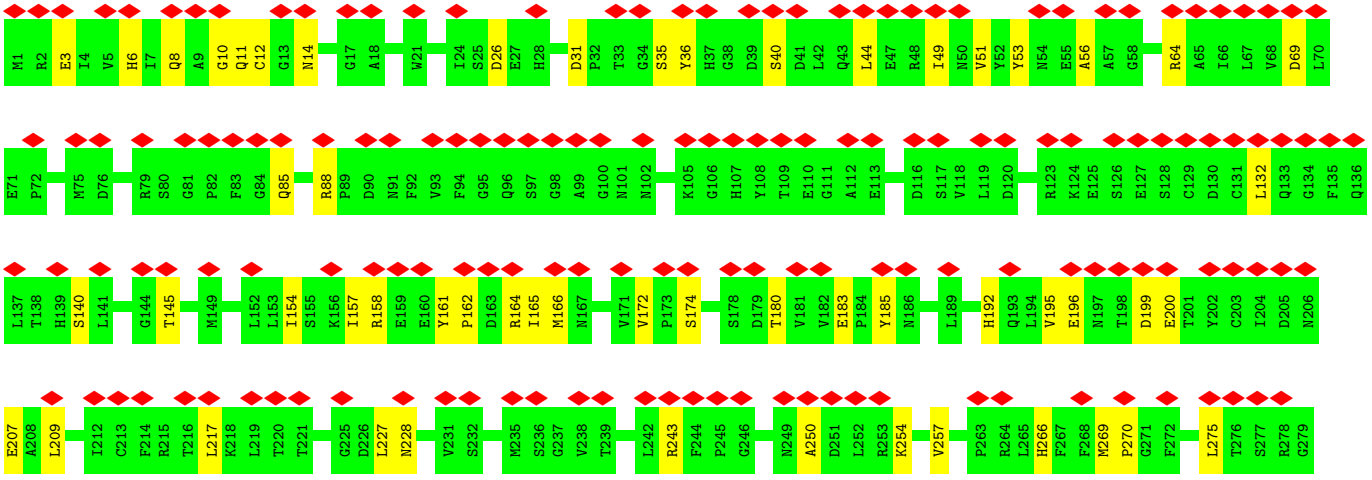
• Molecule 2: Tubulin beta chain

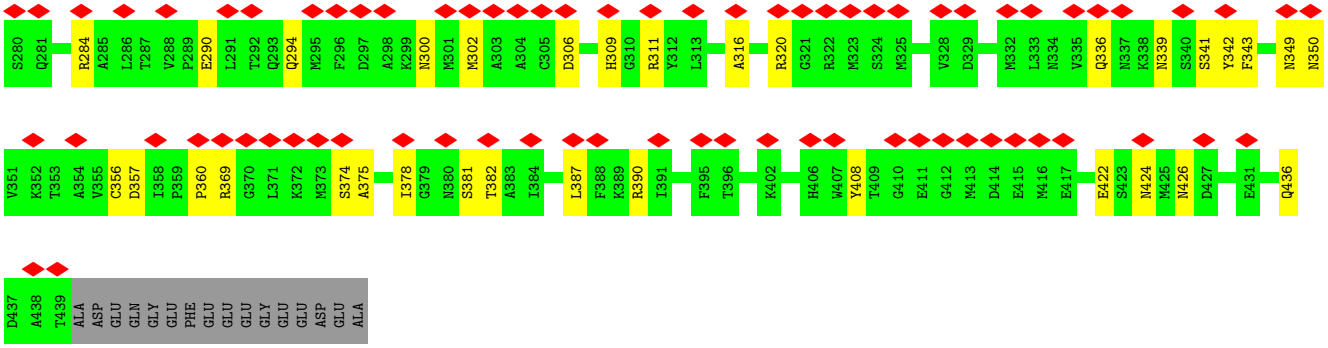
Chain 3X:



• Molecule 2: Tubulin beta chain

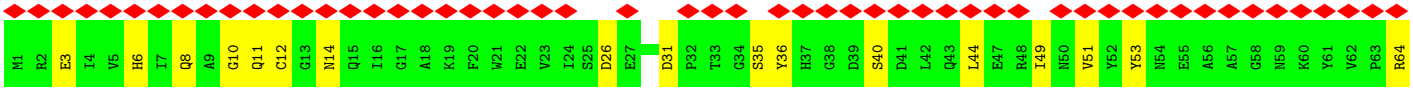
Chain 3Y:

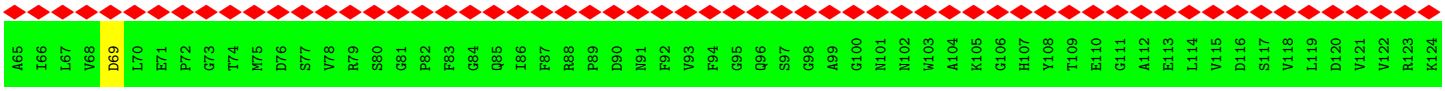


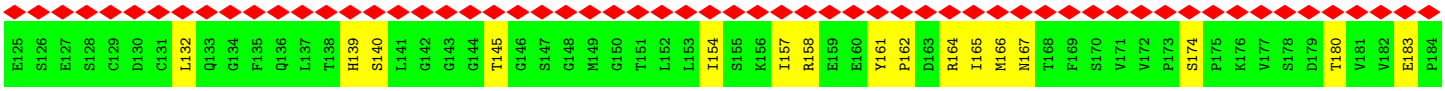


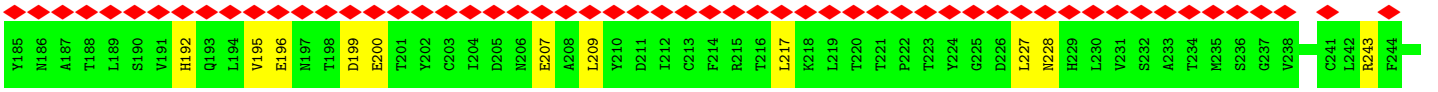
• Molecule 2: Tubulin beta chain

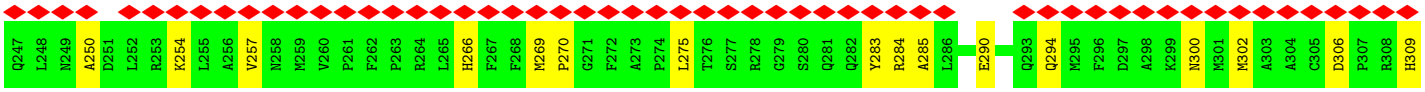
Chain 3Z:

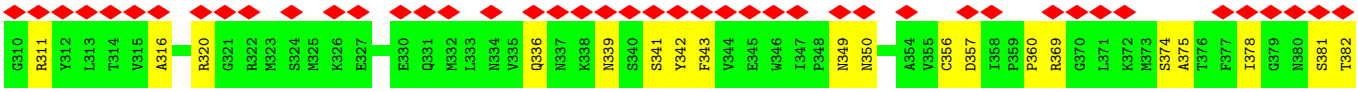


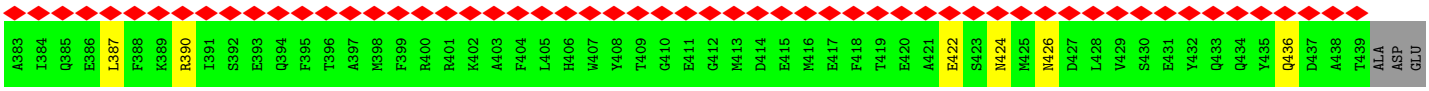






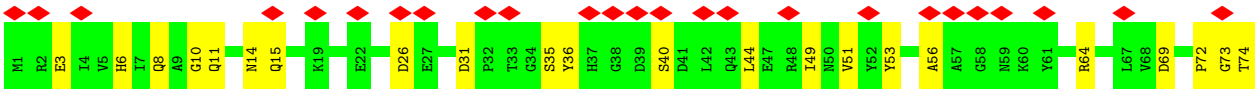


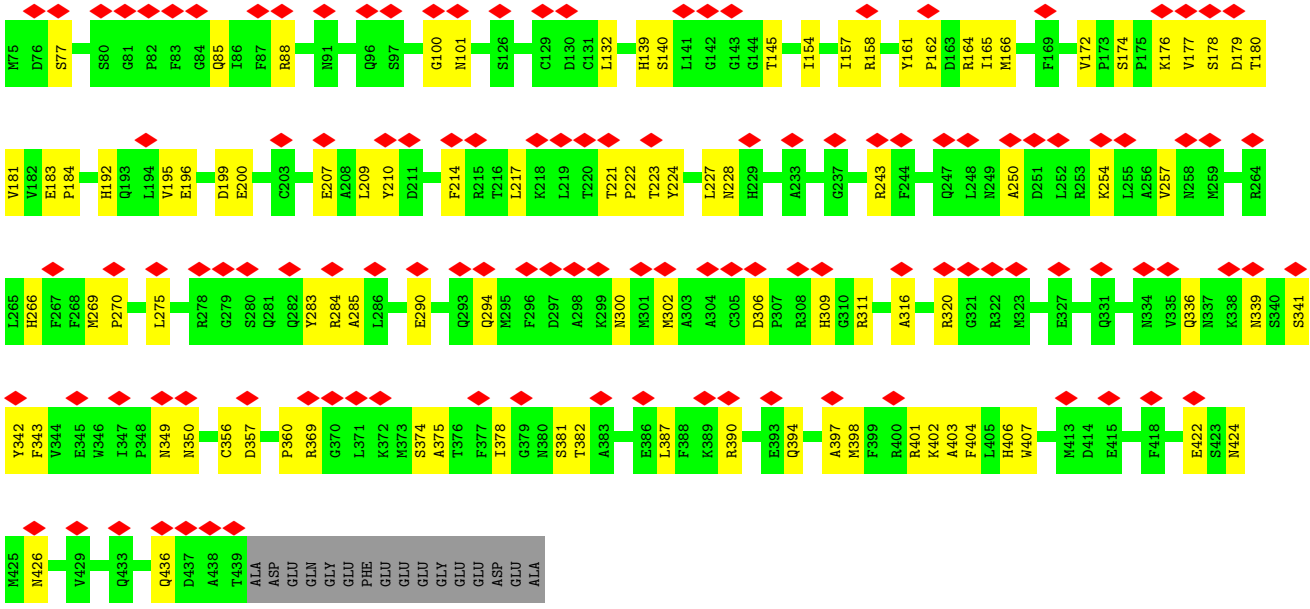




• Molecule 2: Tubulin beta chain

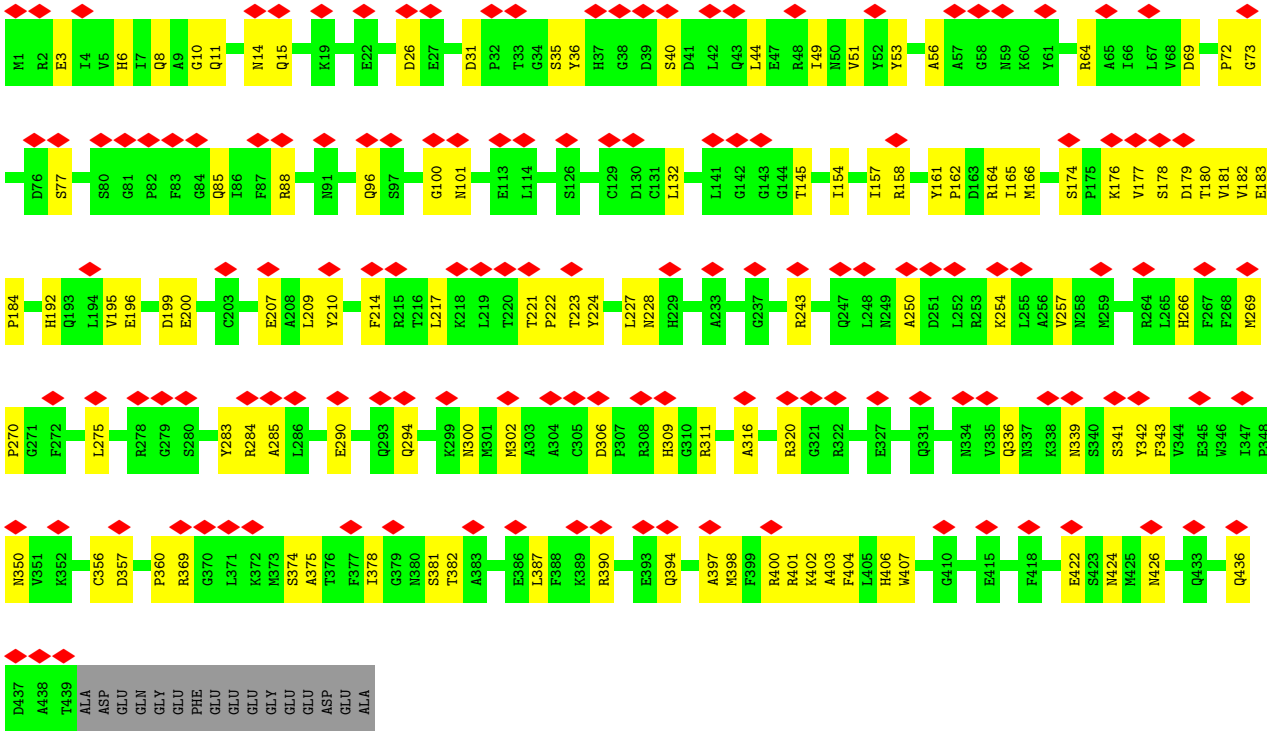
Chain 4H:





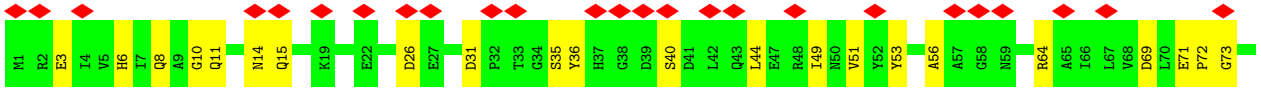
• Molecule 2: Tubulin beta chain

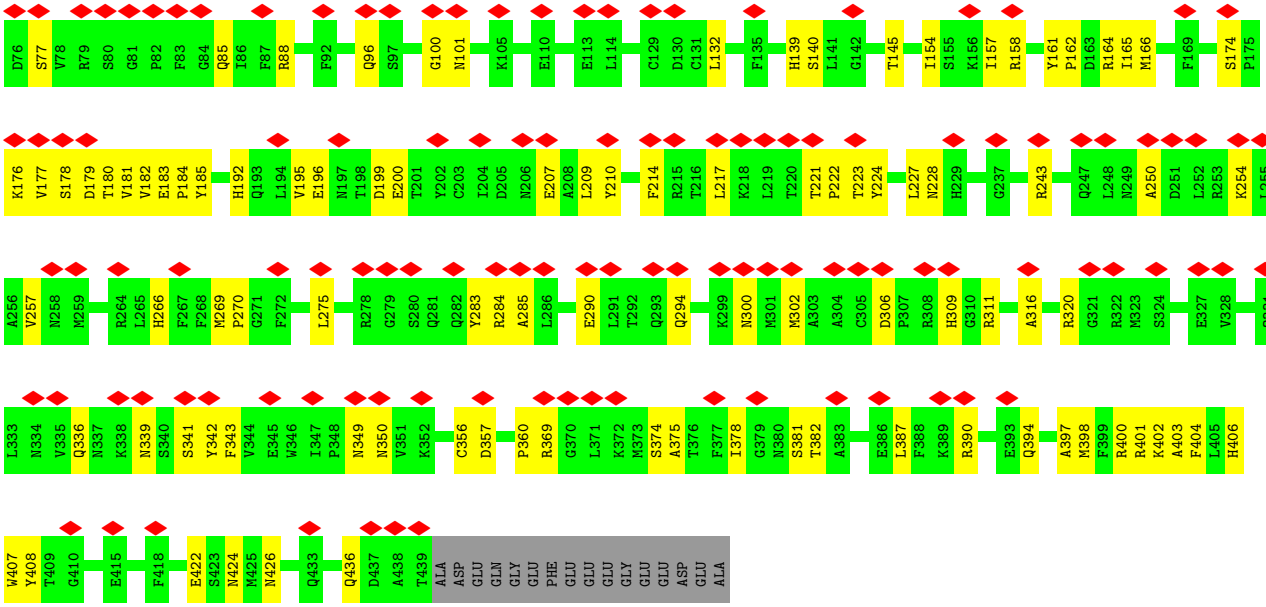
Chain 4O:



• Molecule 2: Tubulin beta chain

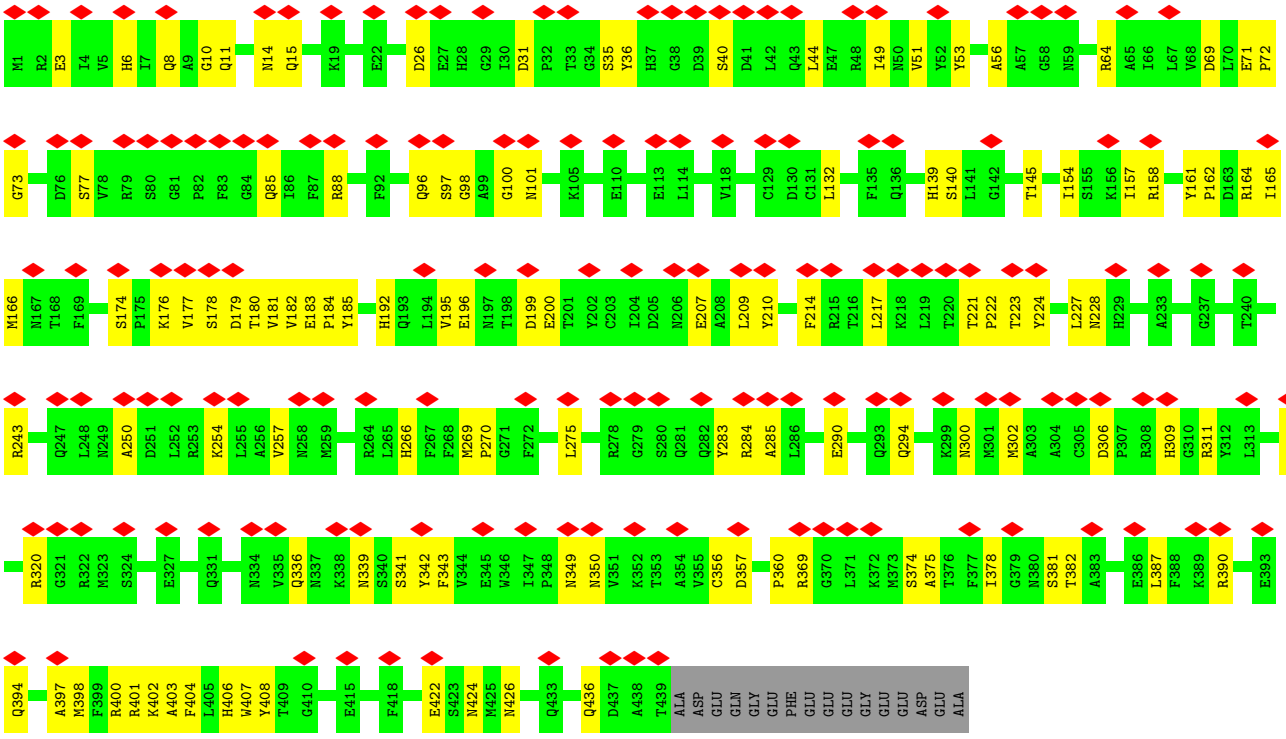
Chain 4P:





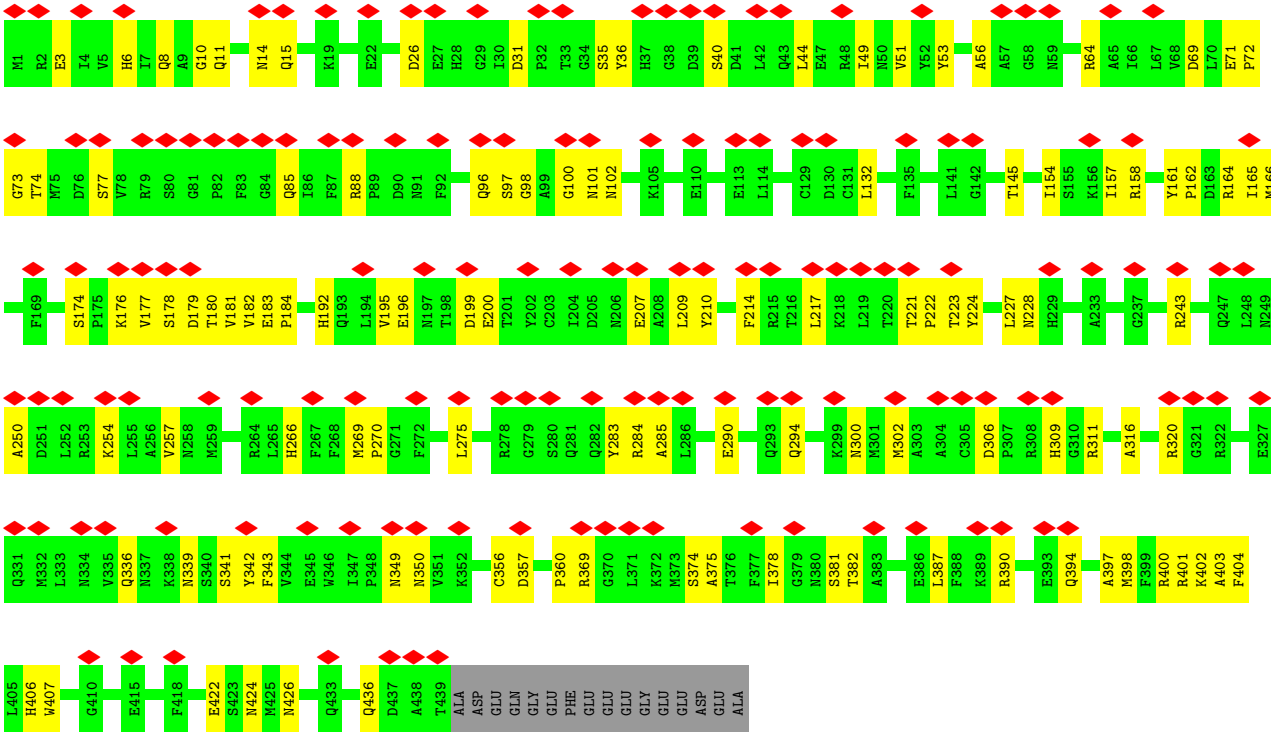
• Molecule 2: Tubulin beta chain

Chain 4Q:



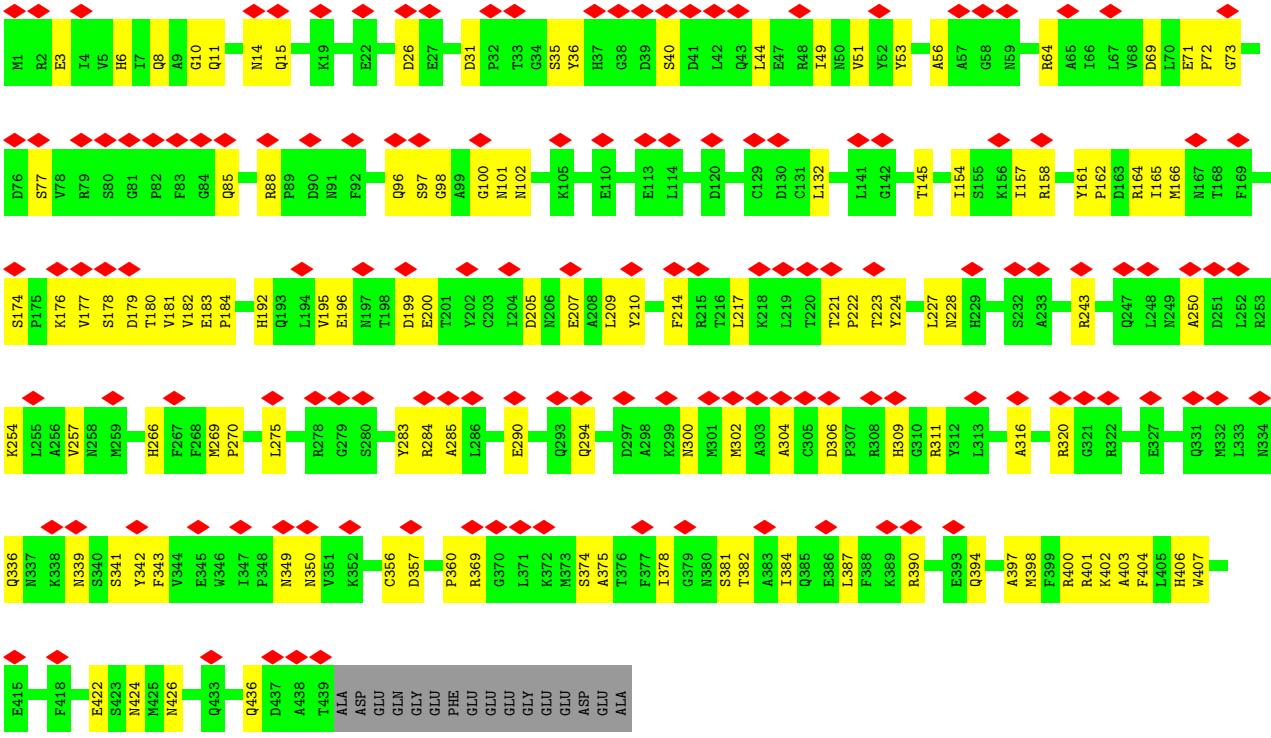
• Molecule 2: Tubulin beta chain

Chain 4R:



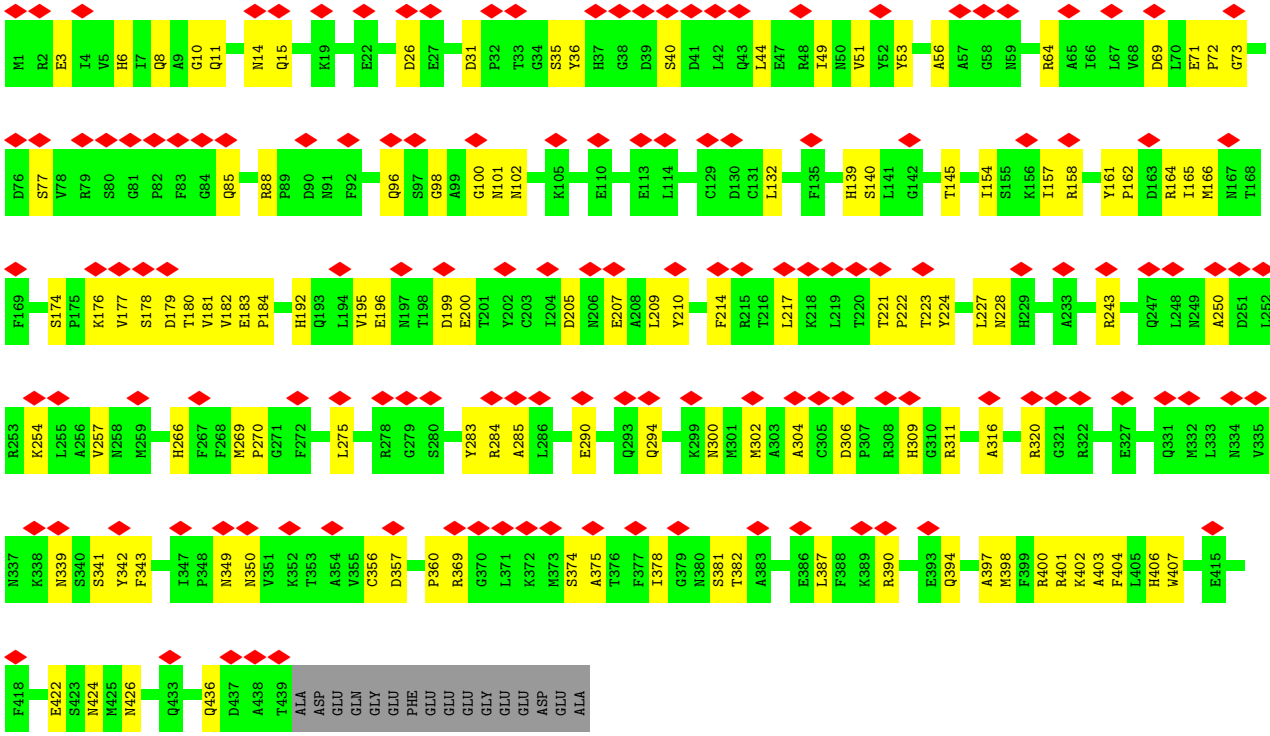
• Molecule 2: Tubulin beta chain

Chain 4S:



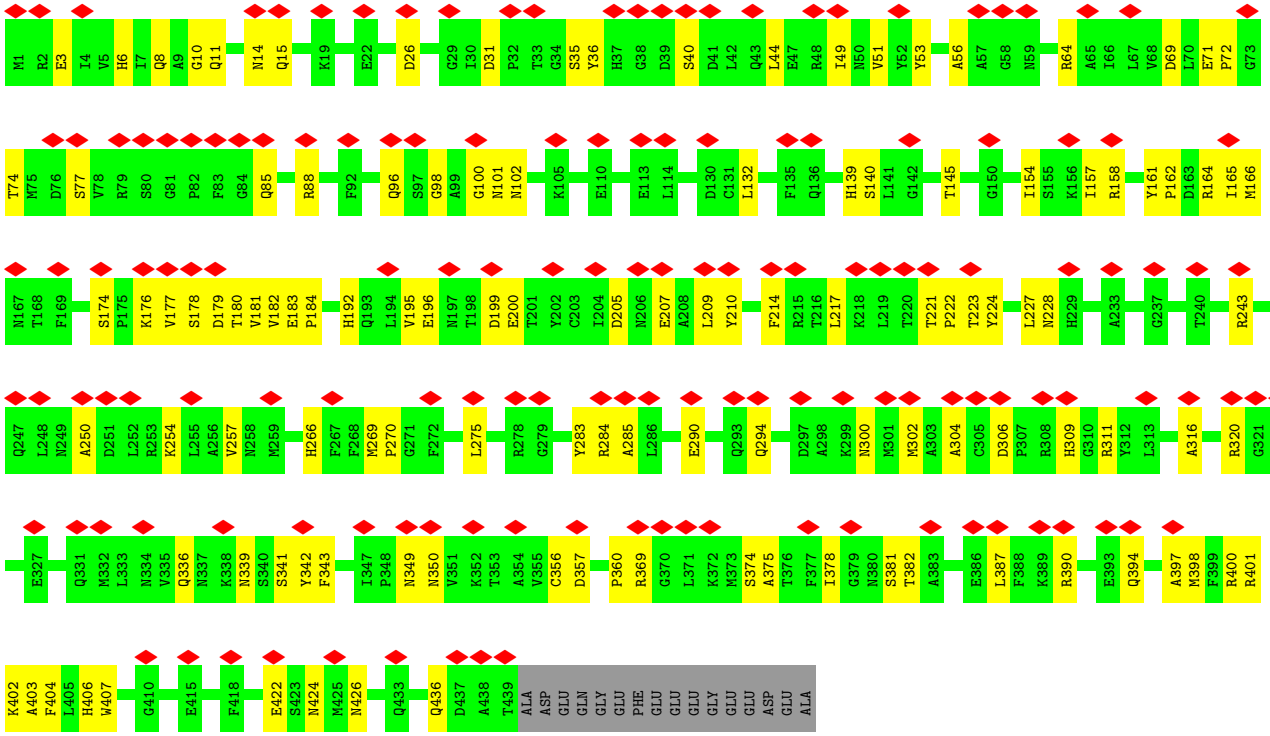
• Molecule 2: Tubulin beta chain

Chain 4T:



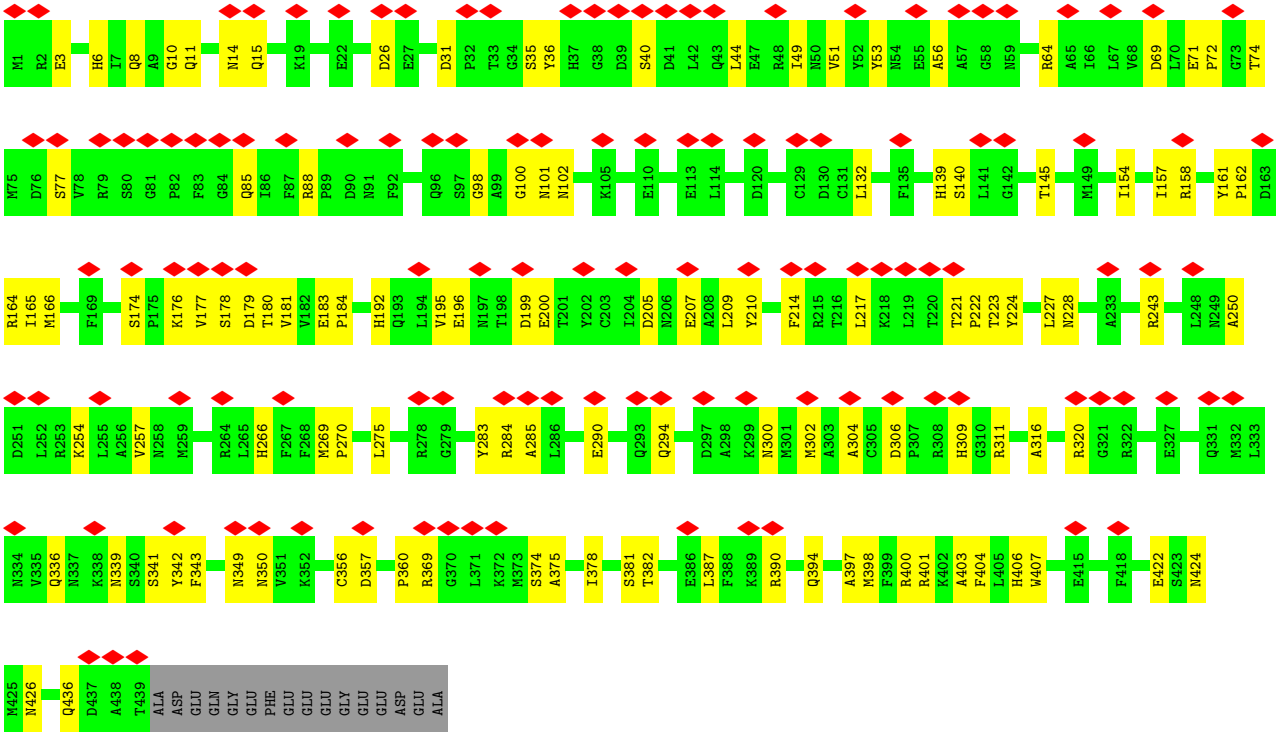
• Molecule 2: Tubulin beta chain

Chain 4U:



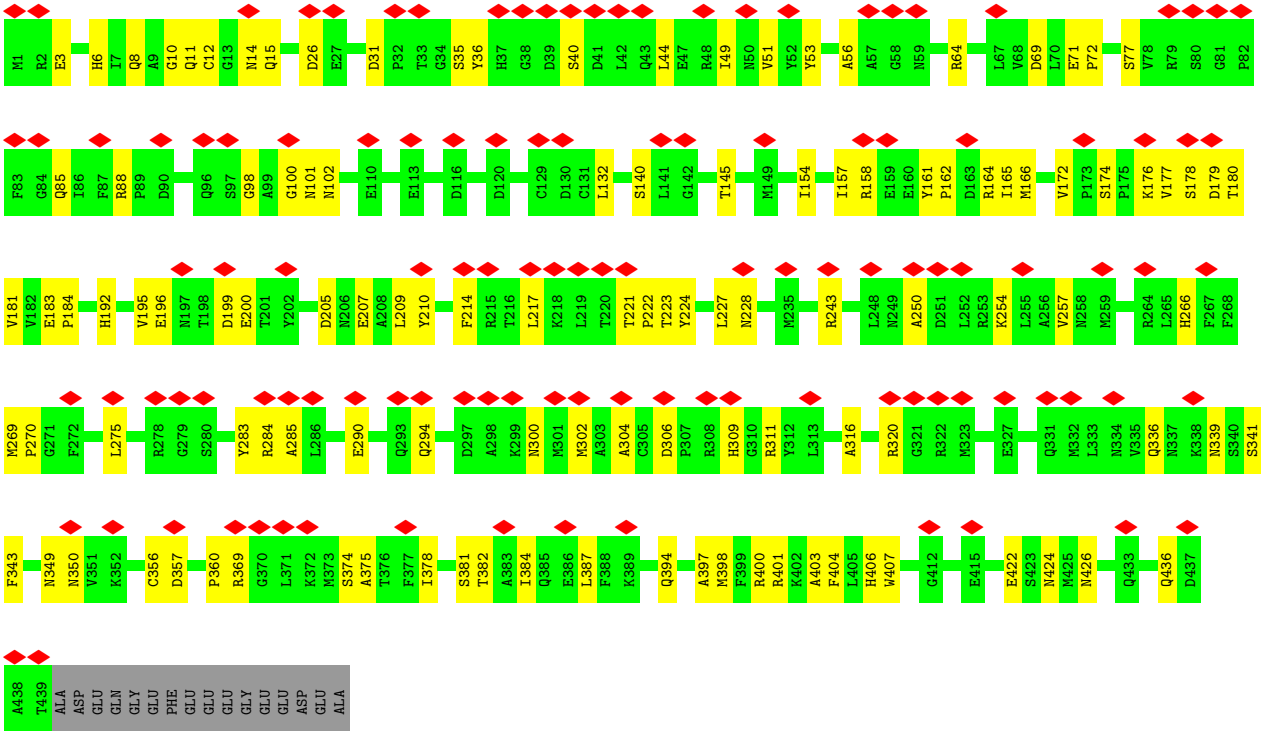
• Molecule 2: Tubulin beta chain

Chain 4V:



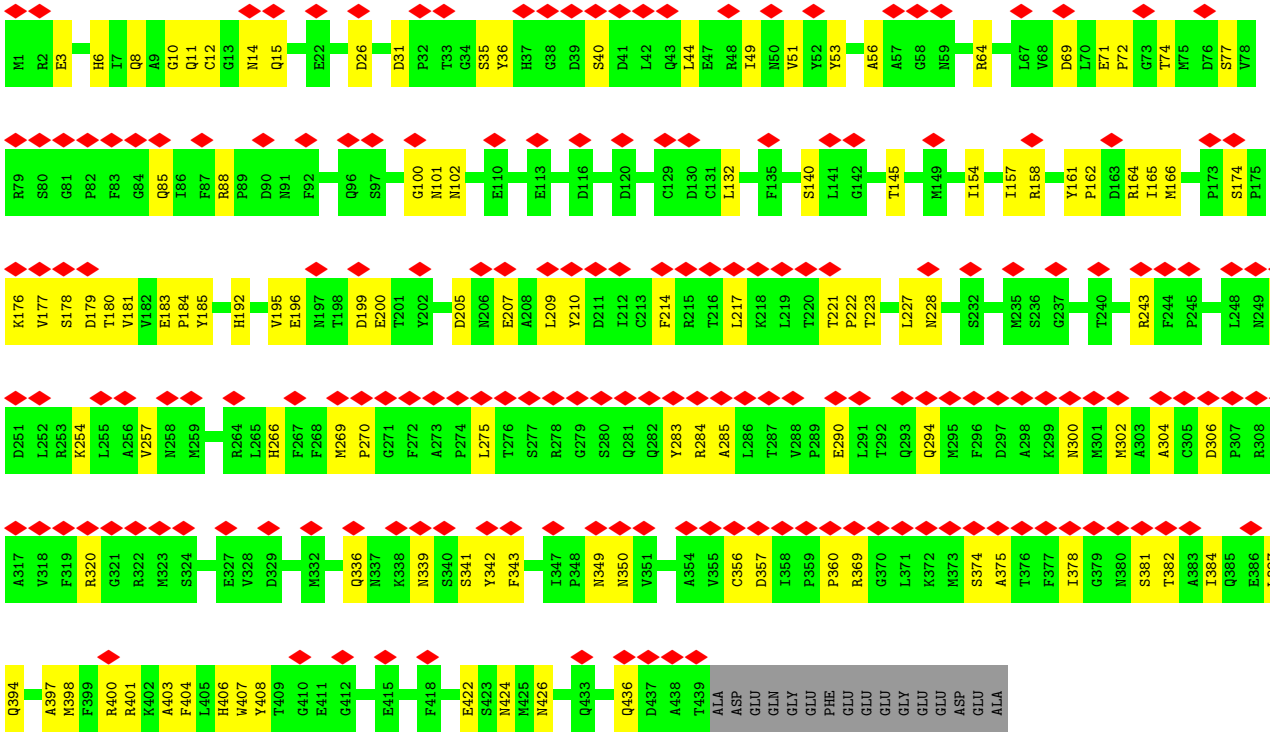
• Molecule 2: Tubulin beta chain

Chain 4W:



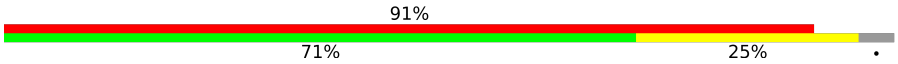
• Molecule 2: Tubulin beta chain

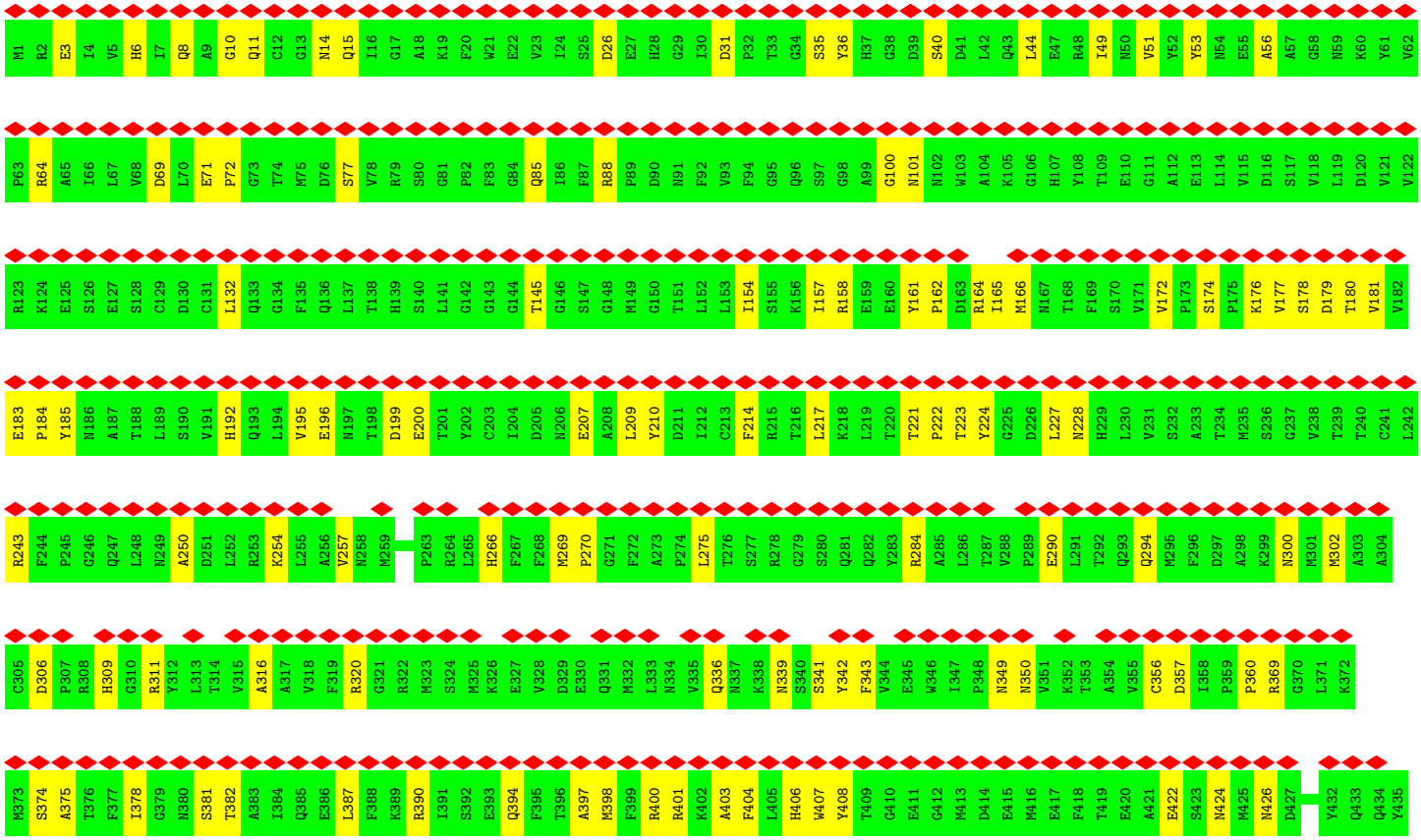
Chain 4X:

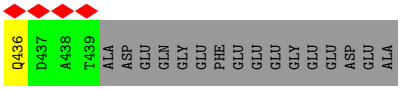


- Molecule 2: Tubulin beta chain

Chain 4Y:

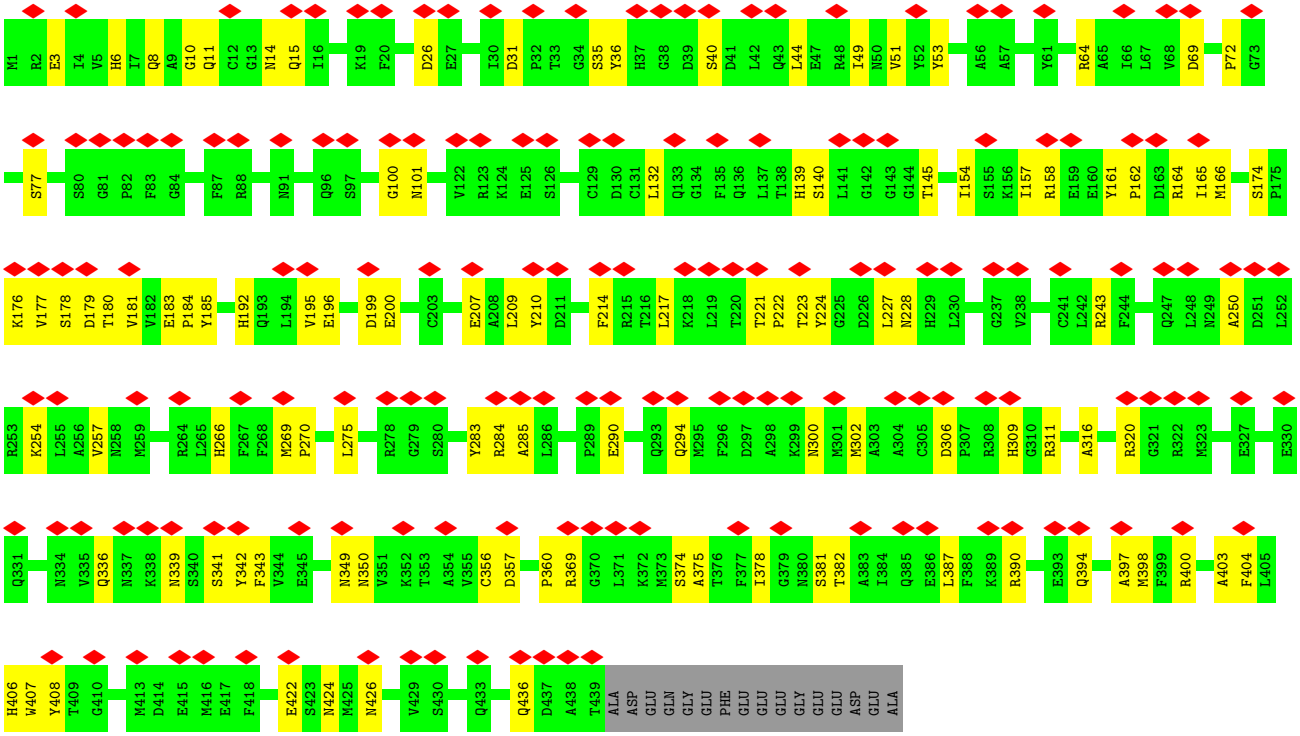






• Molecule 2: Tubulin beta chain

Chain 4Z:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=-27.7°, rise=9.3 Å, axial sym=C1	Depositor
Number of segments used	24692	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION; CTFFIND4	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	25	Depositor
Minimum defocus (nm)	1422.3	Depositor
Maximum defocus (nm)	2706.1	Depositor
Magnification	23364	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	13.938	Depositor
Minimum map value	-7.407	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.938	Depositor
Recommended contour level	4.0	Depositor
Map size (Å)	548.91003, 548.91003, 548.91003	wwPDB
Map dimensions	513, 513, 513	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.07, 1.07, 1.07	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	1A	0.33	0/3473	0.50	0/4716
1	1B	0.33	0/3473	0.50	0/4716
1	1C	0.33	0/3473	0.50	0/4716
1	1D	0.33	0/3473	0.50	0/4716
1	1E	0.33	0/3473	0.50	0/4716
1	1F	0.33	0/3473	0.50	0/4716
1	1G	0.33	0/3473	0.50	0/4716
1	1I	0.33	0/3473	0.50	0/4716
1	1J	0.33	0/3473	0.50	0/4716
1	1K	0.33	0/3473	0.50	0/4716
1	1L	0.33	0/3473	0.50	0/4716
1	1M	0.33	0/3473	0.50	0/4716
1	1N	0.33	0/3473	0.50	0/4716
1	2A	0.33	0/3473	0.50	0/4716
1	2B	0.33	0/3473	0.50	0/4716
1	2C	0.33	0/3473	0.50	0/4716
1	2D	0.33	0/3473	0.50	0/4716
1	2E	0.33	0/3473	0.50	0/4716
1	2F	0.33	0/3473	0.50	0/4716
1	2G	0.33	0/3473	0.50	0/4716
1	2I	0.33	0/3473	0.50	0/4716
1	2J	0.33	0/3473	0.50	0/4716
1	2K	0.33	0/3473	0.50	0/4716
1	2L	0.33	0/3473	0.50	0/4716
1	2M	0.33	0/3473	0.50	0/4716
1	2N	0.33	0/3473	0.50	0/4716
1	3A	0.33	0/3473	0.50	0/4716
1	3B	0.33	0/3473	0.50	0/4716
1	3C	0.33	0/3473	0.50	0/4716
1	3D	0.33	0/3473	0.51	0/4716
1	3E	0.33	0/3473	0.50	0/4716
1	3F	0.33	0/3473	0.50	0/4716

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	3G	0.33	0/3473	0.50	0/4716
1	3I	0.33	0/3473	0.50	0/4716
1	3J	0.33	0/3473	0.50	0/4716
1	3K	0.33	0/3473	0.50	0/4716
1	3L	0.33	0/3473	0.50	0/4716
1	3M	0.33	0/3473	0.51	0/4716
1	3N	0.33	0/3473	0.50	0/4716
1	4A	0.33	0/3473	0.50	0/4716
1	4B	0.33	0/3473	0.50	0/4716
1	4C	0.33	0/3473	0.50	0/4716
1	4D	0.33	0/3473	0.50	0/4716
1	4E	0.33	0/3473	0.50	0/4716
1	4F	0.33	0/3473	0.51	0/4716
1	4G	0.33	0/3473	0.50	0/4716
1	4I	0.33	0/3473	0.50	0/4716
1	4J	0.33	0/3473	0.50	0/4716
1	4K	0.33	0/3473	0.50	0/4716
1	4L	0.33	0/3473	0.50	0/4716
1	4M	0.33	0/3473	0.50	0/4716
1	4N	0.33	0/3473	0.50	0/4716
2	1H	0.33	0/3443	0.52	0/4666
2	1O	0.33	0/3443	0.52	0/4666
2	1P	0.33	0/3443	0.52	0/4666
2	1Q	0.34	0/3443	0.52	0/4666
2	1R	0.33	0/3443	0.52	0/4666
2	1S	0.33	0/3443	0.52	0/4666
2	1T	0.33	0/3443	0.52	0/4666
2	1U	0.33	0/3443	0.52	0/4666
2	1V	0.33	0/3443	0.52	0/4666
2	1W	0.33	0/3443	0.52	0/4666
2	1X	0.33	0/3443	0.52	0/4666
2	1Y	0.33	0/3443	0.52	0/4666
2	1Z	0.33	0/3443	0.52	0/4666
2	2H	0.33	0/3443	0.52	0/4666
2	2O	0.33	0/3443	0.52	0/4666
2	2P	0.33	0/3443	0.52	0/4666
2	2Q	0.33	0/3443	0.52	0/4666
2	2R	0.33	0/3443	0.52	0/4666
2	2S	0.33	0/3443	0.52	0/4666
2	2T	0.34	0/3443	0.52	0/4666
2	2U	0.34	0/3443	0.52	0/4666
2	2V	0.34	0/3443	0.52	0/4666
2	2W	0.34	0/3443	0.52	0/4666

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
2	2X	0.33	0/3443	0.52	0/4666
2	2Y	0.34	0/3443	0.52	0/4666
2	2Z	0.33	0/3443	0.52	0/4666
2	3H	0.34	0/3443	0.52	0/4666
2	3O	0.33	0/3443	0.52	0/4666
2	3P	0.33	0/3443	0.52	0/4666
2	3Q	0.33	0/3443	0.52	0/4666
2	3R	0.33	0/3443	0.52	0/4666
2	3S	0.33	0/3443	0.52	0/4666
2	3T	0.33	0/3443	0.52	0/4666
2	3U	0.33	0/3443	0.52	0/4666
2	3V	0.33	0/3443	0.52	0/4666
2	3W	0.33	0/3443	0.52	0/4666
2	3X	0.33	0/3443	0.52	0/4666
2	3Y	0.33	0/3443	0.52	0/4666
2	3Z	0.33	0/3443	0.52	0/4666
2	4H	0.34	0/3443	0.52	0/4666
2	4O	0.34	0/3443	0.52	0/4666
2	4P	0.34	0/3443	0.52	0/4666
2	4Q	0.33	0/3443	0.52	0/4666
2	4R	0.33	0/3443	0.52	0/4666
2	4S	0.33	0/3443	0.52	0/4666
2	4T	0.33	0/3443	0.52	0/4666
2	4U	0.33	0/3443	0.52	0/4666
2	4V	0.33	0/3443	0.52	0/4666
2	4W	0.33	0/3443	0.52	0/4666
2	4X	0.34	0/3443	0.52	0/4666
2	4Y	0.33	0/3443	0.52	0/4666
2	4Z	0.33	0/3443	0.52	0/4666
All	All	0.33	0/359632	0.51	0/487864

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

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	1A	3396	0	3301	252	0
1	1B	3396	0	3301	306	0
1	1C	3396	0	3301	350	0
1	1D	3396	0	3301	372	0
1	1E	3396	0	3301	387	0
1	1F	3396	0	3301	371	0
1	1G	3396	0	3301	341	0
1	1I	3396	0	3301	308	0
1	1J	3396	0	3301	260	0
1	1K	3396	0	3301	230	0
1	1L	3396	0	3301	214	0
1	1M	3396	0	3301	224	0
1	1N	3396	0	3301	223	0
1	2A	3396	0	3301	111	0
1	2B	3396	0	3301	98	0
1	2C	3396	0	3301	97	0
1	2D	3396	0	3301	110	0
1	2E	3396	0	3301	121	0
1	2F	3396	0	3301	145	0
1	2G	3396	0	3301	158	0
1	2I	3396	0	3301	180	0
1	2J	3396	0	3301	197	0
1	2K	3396	0	3300	199	0
1	2L	3396	0	3300	188	0
1	2M	3396	0	3300	179	0
1	2N	3396	0	3301	146	0
1	3A	3396	0	3301	204	0
1	3B	3396	0	3301	206	0
1	3C	3396	0	3301	207	0
1	3D	3396	0	3301	219	0
1	3E	3396	0	3301	224	0
1	3F	3396	0	3301	238	0
1	3G	3396	0	3301	233	0
1	3I	3396	0	3301	232	0
1	3J	3396	0	3301	226	0
1	3K	3396	0	3301	225	0
1	3L	3396	0	3301	212	0
1	3M	3396	0	3301	202	0
1	3N	3396	0	3301	197	0
1	4A	3396	0	3301	51	0
1	4B	3396	0	3301	50	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	4C	3396	0	3301	53	0
1	4D	3396	0	3301	53	0
1	4E	3396	0	3301	52	0
1	4F	3396	0	3301	51	0
1	4G	3396	0	3301	52	0
1	4I	3396	0	3301	53	0
1	4J	3396	0	3301	53	0
1	4K	3396	0	3301	54	0
1	4L	3396	0	3301	52	0
1	4M	3396	0	3301	46	0
1	4N	3396	0	3301	45	0
2	1H	3368	0	3246	112	0
2	1O	3368	0	3246	96	0
2	1P	3368	0	3246	94	0
2	1Q	3368	0	3246	107	0
2	1R	3368	0	3246	122	0
2	1S	3368	0	3246	148	0
2	1T	3368	0	3246	157	0
2	1U	3368	0	3246	179	0
2	1V	3368	0	3246	196	0
2	1W	3368	0	3245	199	0
2	1X	3368	0	3245	189	0
2	1Y	3368	0	3245	181	0
2	1Z	3368	0	3246	148	0
2	2H	3368	0	3246	204	0
2	2O	3368	0	3245	201	0
2	2P	3368	0	3245	203	0
2	2Q	3368	0	3245	214	0
2	2R	3368	0	3245	222	0
2	2S	3368	0	3245	238	0
2	2T	3368	0	3245	231	0
2	2U	3368	0	3245	229	0
2	2V	3368	0	3245	225	0
2	2W	3368	0	3245	223	0
2	2X	3368	0	3245	214	0
2	2Y	3368	0	3246	207	0
2	2Z	3368	0	3246	198	0
2	3H	3368	0	3246	51	0
2	3O	3368	0	3246	50	0
2	3P	3368	0	3246	51	0
2	3Q	3368	0	3246	50	0
2	3R	3368	0	3246	52	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	3S	3368	0	3246	54	0
2	3T	3368	0	3246	50	0
2	3U	3368	0	3246	52	0
2	3V	3368	0	3246	53	0
2	3W	3368	0	3246	53	0
2	3X	3368	0	3246	52	0
2	3Y	3368	0	3246	50	0
2	3Z	3368	0	3246	49	0
2	4H	3368	0	3243	250	0
2	4O	3368	0	3243	299	0
2	4P	3368	0	3243	343	0
2	4Q	3368	0	3243	367	0
2	4R	3368	0	3243	382	0
2	4S	3368	0	3243	370	0
2	4T	3368	0	3245	339	0
2	4U	3368	0	3246	307	0
2	4V	3368	0	3246	259	0
2	4W	3368	0	3246	227	0
2	4X	3368	0	3246	217	0
2	4Y	3368	0	3246	226	0
2	4Z	3368	0	3244	220	0
3	1A	32	0	12	2	0
3	1B	32	0	12	2	0
3	1C	32	0	12	2	0
3	1D	32	0	12	2	0
3	1E	32	0	12	2	0
3	1F	32	0	12	1	0
3	1G	32	0	12	2	0
3	1I	32	0	12	2	0
3	1J	32	0	12	2	0
3	1K	32	0	12	2	0
3	1L	32	0	12	2	0
3	1M	32	0	12	2	0
3	1N	32	0	12	1	0
3	2A	32	0	12	2	0
3	2B	32	0	12	2	0
3	2C	32	0	12	2	0
3	2D	32	0	12	2	0
3	2E	32	0	12	2	0
3	2F	32	0	12	2	0
3	2G	32	0	12	2	0
3	2I	32	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	2J	32	0	12	2	0
3	2K	32	0	12	2	0
3	2L	32	0	12	2	0
3	2M	32	0	12	2	0
3	2N	32	0	12	1	0
3	3A	32	0	12	2	0
3	3B	32	0	12	2	0
3	3C	32	0	12	2	0
3	3D	32	0	12	2	0
3	3E	32	0	12	2	0
3	3F	32	0	12	1	0
3	3G	32	0	12	2	0
3	3I	32	0	12	2	0
3	3J	32	0	12	2	0
3	3K	32	0	12	2	0
3	3L	32	0	12	2	0
3	3M	32	0	12	2	0
3	3N	32	0	12	1	0
3	4A	32	0	12	2	0
3	4B	32	0	12	2	0
3	4C	32	0	12	2	0
3	4D	32	0	12	2	0
3	4E	32	0	12	2	0
3	4F	32	0	12	2	0
3	4G	32	0	12	2	0
3	4I	32	0	12	2	0
3	4J	32	0	12	2	0
3	4K	32	0	12	2	0
3	4L	32	0	12	2	0
3	4M	32	0	12	2	0
3	4N	32	0	12	1	0
4	1A	1	0	0	0	0
4	1B	1	0	0	0	0
4	1C	1	0	0	0	0
4	1D	1	0	0	0	0
4	1E	1	0	0	0	0
4	1F	1	0	0	0	0
4	1G	1	0	0	0	0
4	1I	1	0	0	0	0
4	1J	1	0	0	0	0
4	1K	1	0	0	0	0
4	1L	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	1M	1	0	0	0	0
4	1N	1	0	0	0	0
4	2A	1	0	0	0	0
4	2B	1	0	0	0	0
4	2C	1	0	0	0	0
4	2D	1	0	0	0	0
4	2E	1	0	0	0	0
4	2F	1	0	0	0	0
4	2G	1	0	0	0	0
4	2I	1	0	0	0	0
4	2J	1	0	0	0	0
4	2K	1	0	0	0	0
4	2L	1	0	0	0	0
4	2M	1	0	0	0	0
4	2N	1	0	0	0	0
4	3A	1	0	0	0	0
4	3B	1	0	0	0	0
4	3C	1	0	0	0	0
4	3D	1	0	0	0	0
4	3E	1	0	0	0	0
4	3F	1	0	0	0	0
4	3G	1	0	0	0	0
4	3I	1	0	0	0	0
4	3J	1	0	0	0	0
4	3K	1	0	0	0	0
4	3L	1	0	0	0	0
4	3M	1	0	0	0	0
4	3N	1	0	0	0	0
4	4A	1	0	0	0	0
4	4B	1	0	0	0	0
4	4C	1	0	0	0	0
4	4D	1	0	0	0	0
4	4E	1	0	0	0	0
4	4F	1	0	0	0	0
4	4G	1	0	0	0	0
4	4I	1	0	0	0	0
4	4J	1	0	0	0	0
4	4K	1	0	0	0	0
4	4L	1	0	0	0	0
4	4M	1	0	0	0	0
4	4N	1	0	0	0	0
5	1H	28	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	1O	28	0	12	2	0
5	1P	28	0	12	2	0
5	1Q	28	0	12	2	0
5	1R	28	0	12	2	0
5	1S	28	0	12	2	0
5	1T	28	0	12	2	0
5	1U	28	0	12	2	0
5	1V	28	0	12	2	0
5	1W	28	0	12	2	0
5	1X	28	0	12	3	0
5	1Y	28	0	12	3	0
5	1Z	28	0	12	2	0
5	2H	28	0	12	3	0
5	2O	28	0	12	4	0
5	2P	28	0	12	5	0
5	2Q	28	0	12	5	0
5	2R	28	0	12	6	0
5	2S	28	0	12	6	0
5	2T	28	0	12	5	0
5	2U	28	0	12	5	0
5	2V	28	0	12	4	0
5	2W	28	0	12	4	0
5	2X	28	0	12	4	0
5	2Y	28	0	12	3	0
5	2Z	28	0	12	3	0
5	3H	28	0	12	2	0
5	3O	28	0	12	2	0
5	3P	28	0	12	2	0
5	3Q	28	0	12	2	0
5	3R	28	0	12	2	0
5	3S	28	0	12	2	0
5	3T	28	0	12	2	0
5	3U	28	0	12	2	0
5	3V	28	0	12	2	0
5	3W	28	0	12	2	0
5	3X	28	0	12	2	0
5	3Y	28	0	12	2	0
5	3Z	28	0	12	2	0
5	4H	28	0	12	5	0
5	4O	28	0	12	6	0
5	4P	28	0	12	7	0
5	4Q	28	0	12	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	4R	28	0	12	6	0
5	4S	28	0	12	6	0
5	4T	28	0	12	6	0
5	4U	28	0	12	4	0
5	4V	28	0	12	4	0
5	4W	28	0	12	4	0
5	4X	28	0	12	4	0
5	4Y	28	0	12	4	0
5	4Z	28	0	12	4	0
All	All	354900	0	341655	11466	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 16.

All (11466) 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)
2:2W:406:HIS:CD2	1:3K:263:PRO:HD3	1.46	1.50
1:1G:262:TYR:HA	2:4T:406:HIS:CD2	1.47	1.49
2:2U:406:HIS:CD2	1:3I:263:PRO:HD3	1.47	1.49
2:2V:406:HIS:CD2	1:3J:263:PRO:HD3	1.45	1.49
1:1I:262:TYR:HA	2:4U:406:HIS:CD2	1.49	1.47
2:1W:214:PHE:CG	1:2K:326:LYS:HE2	1.47	1.47
2:1Y:181:VAL:N	1:2M:258:ASN:ND2	1.62	1.46
2:1U:181:VAL:H	1:2I:258:ASN:ND2	1.13	1.46
2:1V:181:VAL:N	1:2J:258:ASN:HD22	1.09	1.46
1:1F:262:TYR:HA	2:4S:406:HIS:CD2	1.51	1.44
2:2W:404:PHE:CE2	1:3K:261:PRO:HB3	1.52	1.43
2:1X:214:PHE:CG	1:2L:326:LYS:HE2	1.53	1.43
1:1E:260:VAL:HB	2:4R:407:TRP:NE1	1.32	1.43
2:1U:214:PHE:CD1	1:2I:326:LYS:CE	2.02	1.43
2:1V:214:PHE:CG	1:2J:326:LYS:HE2	1.51	1.43
2:2V:404:PHE:CE2	1:3J:261:PRO:HB3	1.53	1.42
2:2T:406:HIS:CD2	1:3G:263:PRO:HD3	1.53	1.42
1:1F:2:ARG:CD	2:4S:72:PRO:HD2	1.50	1.42
2:1V:214:PHE:CD1	1:2J:326:LYS:CE	2.00	1.42
2:2X:406:HIS:CD2	1:3L:263:PRO:HD3	1.52	1.42
1:1J:262:TYR:HA	2:4V:406:HIS:CD2	1.55	1.41
2:2X:404:PHE:CE2	1:3L:261:PRO:HB3	1.55	1.40
1:1E:2:ARG:CD	2:4R:72:PRO:HD2	1.48	1.40
2:1V:181:VAL:H	1:2J:258:ASN:ND2	0.98	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1F:260:VAL:HB	2:4S:407:TRP:NE1	1.38	1.38
2:1W:214:PHE:CD1	1:2K:326:LYS:CE	2.08	1.37
2:1V:221:THR:CA	1:2J:324:VAL:HG11	1.54	1.36
2:2U:404:PHE:CE2	1:3I:261:PRO:HB3	1.59	1.36
1:1E:262:TYR:HA	2:4R:406:HIS:CD2	1.61	1.35
2:1W:181:VAL:CG2	1:2K:258:ASN:O	1.74	1.35
1:1F:262:TYR:CA	2:4S:406:HIS:CD2	2.09	1.35
1:1K:262:TYR:HA	2:4W:406:HIS:CD2	1.62	1.34
2:2Y:406:HIS:CD2	1:3M:263:PRO:HD3	1.59	1.34
2:2S:406:HIS:CD2	1:3F:263:PRO:HD3	1.61	1.34
1:1G:260:VAL:O	2:4T:407:TRP:CD1	1.80	1.34
1:1K:346:TRP:O	2:4W:398:MET:HG2	1.22	1.33
2:2O:401:ARG:NH2	1:3B:434:GLU:O	1.60	1.33
2:2Y:404:PHE:CE2	1:3M:261:PRO:HB3	1.62	1.33
1:1D:260:VAL:HB	2:4Q:407:TRP:NE1	1.39	1.33
1:1A:258:ASN:OD1	2:4H:101:ASN:ND2	1.60	1.33
1:1D:2:ARG:CD	2:4Q:72:PRO:HD2	1.55	1.33
1:1D:261:PRO:HA	2:4Q:404:PHE:CA	1.56	1.33
2:1U:221:THR:CA	1:2I:324:VAL:HG11	1.58	1.33
2:2X:221:THR:OG1	1:3L:324:VAL:HG21	1.19	1.33
2:2W:221:THR:OG1	1:3K:324:VAL:HG21	1.19	1.33
1:1F:2:ARG:HD3	2:4S:72:PRO:CD	1.59	1.32
1:1E:260:VAL:CB	2:4R:407:TRP:HE1	1.41	1.32
1:1I:346:TRP:O	2:4U:398:MET:HG2	1.28	1.32
2:1T:214:PHE:CD1	1:2G:326:LYS:CE	2.13	1.32
2:1V:181:VAL:CG2	1:2J:258:ASN:O	1.75	1.32
2:1U:181:VAL:N	1:2I:258:ASN:HD22	1.27	1.32
1:1A:263:PRO:HD3	2:4H:406:HIS:CD2	1.64	1.32
1:1D:245:ASP:OD1	2:4Q:77:SER:HB3	1.17	1.32
1:1G:2:ARG:HD3	2:4T:72:PRO:CD	1.60	1.32
1:1I:260:VAL:O	2:4U:407:TRP:NE1	1.58	1.32
2:1V:221:THR:OG1	1:2J:324:VAL:CG2	1.77	1.32
2:1W:221:THR:CA	1:2K:324:VAL:HG11	1.60	1.31
1:1G:2:ARG:CD	2:4T:72:PRO:HD2	1.60	1.31
1:1A:249:ASN:N	2:4H:11:GLN:HE22	1.29	1.31
1:1F:260:VAL:O	2:4S:407:TRP:CD1	1.83	1.31
1:1M:346:TRP:O	2:4Y:398:MET:HG2	1.25	1.31
2:1U:214:PHE:CD1	1:2I:326:LYS:HE2	1.62	1.31
2:1U:214:PHE:CG	1:2I:326:LYS:HE2	1.65	1.31
1:1G:262:TYR:CA	2:4T:406:HIS:CD2	2.11	1.31
1:1L:260:VAL:O	2:4X:407:TRP:NE1	1.62	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2X:401:ARG:NH2	1:3L:434:GLU:O	1.61	1.31
2:2Z:406:HIS:CD2	1:3N:263:PRO:HD3	1.65	1.31
1:1D:353:VAL:HB	2:4Q:179:ASP:OD1	1.29	1.30
1:1E:249:ASN:H	2:4R:11:GLN:CD	1.31	1.30
1:1D:260:VAL:CB	2:4Q:407:TRP:HE1	1.45	1.30
1:1E:261:PRO:HA	2:4R:404:PHE:CA	1.58	1.30
1:1F:258:ASN:OD1	2:4S:101:ASN:ND2	1.61	1.30
1:1F:351:PHE:HB2	2:4S:178:SER:O	1.15	1.30
1:1I:260:VAL:O	2:4U:407:TRP:CD1	1.84	1.30
1:1L:262:TYR:HA	2:4X:406:HIS:CD2	1.66	1.30
1:1N:249:ASN:N	2:4Z:11:GLN:HE22	1.29	1.30
1:1M:262:TYR:HA	2:4Y:406:HIS:CD2	1.66	1.29
2:2Z:221:THR:OG1	1:3N:324:VAL:HG21	1.28	1.29
2:2H:401:ARG:NH2	1:3A:434:GLU:O	1.63	1.29
1:1F:245:ASP:OD1	2:4S:77:SER:HB3	1.12	1.29
2:1W:214:PHE:CG	1:2K:326:LYS:CE	2.15	1.29
1:1E:353:VAL:HB	2:4R:179:ASP:OD1	1.29	1.29
2:1V:214:PHE:CD1	1:2J:326:LYS:HE2	1.60	1.29
2:1U:221:THR:OG1	1:2I:324:VAL:CG2	1.81	1.28
2:1W:214:PHE:CD1	1:2K:326:LYS:HE2	1.68	1.28
1:1D:332:ILE:CG2	2:4Q:177:VAL:HG23	1.61	1.28
1:1F:249:ASN:H	2:4S:11:GLN:CD	1.35	1.28
2:1Y:214:PHE:CG	1:2M:326:LYS:HE2	1.69	1.28
2:2T:404:PHE:CE2	1:3G:261:PRO:HB3	1.67	1.28
1:1D:249:ASN:H	2:4Q:11:GLN:CD	1.35	1.27
2:2H:221:THR:OG1	1:3A:324:VAL:HG21	1.33	1.27
2:2T:221:THR:OG1	1:3G:324:VAL:HG21	1.33	1.27
1:1C:332:ILE:CG2	2:4P:177:VAL:HG23	1.65	1.27
1:1I:245:ASP:OD1	2:4U:77:SER:HB3	1.30	1.27
1:1N:263:PRO:HD3	2:4Z:406:HIS:CD2	1.69	1.27
2:1V:214:PHE:CG	1:2J:326:LYS:CE	2.16	1.27
2:2R:406:HIS:CD2	1:3E:263:PRO:HD3	1.68	1.27
1:1E:351:PHE:HB2	2:4R:178:SER:O	1.11	1.27
2:1Y:181:VAL:CG2	1:2M:258:ASN:HB3	1.64	1.27
2:1Y:181:VAL:HG21	1:2M:258:ASN:O	1.12	1.27
1:1E:245:ASP:OD1	2:4R:77:SER:HB3	1.11	1.27
1:1G:245:ASP:OD1	2:4T:77:SER:HB3	1.19	1.27
2:1T:181:VAL:H	1:2G:258:ASN:ND2	1.32	1.27
2:2T:101:ASN:ND2	1:3G:258:ASN:OD1	1.67	1.27
2:2Y:401:ARG:NH2	1:3M:434:GLU:O	1.64	1.27
1:1B:263:PRO:HD3	2:4O:406:HIS:CD2	1.68	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:351:PHE:HB2	2:4O:178:SER:O	1.27	1.26
1:1C:245:ASP:OD1	2:4P:77:SER:HB3	1.27	1.26
1:1E:262:TYR:CA	2:4R:406:HIS:CD2	2.15	1.26
2:2Z:401:ARG:NH2	1:3N:434:GLU:O	1.64	1.26
1:1I:351:PHE:HB2	2:4U:178:SER:O	1.36	1.26
2:1W:221:THR:OG1	1:2K:324:VAL:CG2	1.81	1.26
1:1B:249:ASN:N	2:4O:11:GLN:HE22	1.31	1.26
1:1D:351:PHE:HB2	2:4Q:178:SER:O	1.13	1.26
2:2S:101:ASN:ND2	1:3F:258:ASN:OD1	1.68	1.26
1:1C:249:ASN:N	2:4P:11:GLN:HE22	1.34	1.26
2:1U:214:PHE:CD1	1:2I:326:LYS:HE3	1.66	1.26
2:1X:181:VAL:CG2	1:2L:258:ASN:HB3	1.66	1.26
2:1X:181:VAL:CG2	1:2L:258:ASN:O	1.81	1.26
2:2Z:404:PHE:CE2	1:3N:261:PRO:HB3	1.69	1.26
1:1E:2:ARG:HD3	2:4R:72:PRO:CD	1.65	1.25
1:1G:351:PHE:HB2	2:4T:178:SER:O	1.24	1.25
2:1S:181:VAL:HG21	1:2F:258:ASN:O	1.31	1.25
1:1C:351:PHE:HB2	2:4P:178:SER:O	1.19	1.25
2:2Y:221:THR:OG1	1:3M:324:VAL:HG21	1.23	1.25
1:1A:351:PHE:HB2	2:4H:178:SER:O	1.37	1.25
1:1I:434:GLU:O	2:4U:401:ARG:NH2	1.70	1.25
1:1A:249:ASN:H	2:4H:11:GLN:NE2	1.34	1.25
1:1C:261:PRO:HA	2:4P:404:PHE:CA	1.66	1.25
1:1M:434:GLU:O	2:4Y:401:ARG:NH2	1.67	1.25
1:1E:332:ILE:CG2	2:4R:177:VAL:HG23	1.66	1.25
2:2U:221:THR:OG1	1:3I:324:VAL:HG21	1.27	1.25
1:1M:260:VAL:O	2:4Y:407:TRP:NE1	1.71	1.24
1:1C:261:PRO:HB3	2:4P:404:PHE:CD2	1.71	1.24
1:1I:262:TYR:CA	2:4U:406:HIS:CD2	2.20	1.24
2:2V:221:THR:OG1	1:3J:324:VAL:HG21	1.22	1.24
1:1D:262:TYR:HA	2:4Q:406:HIS:CD2	1.73	1.24
1:1J:346:TRP:O	2:4V:398:MET:HG2	1.23	1.24
1:1N:249:ASN:H	2:4Z:11:GLN:NE2	1.34	1.24
1:1G:260:VAL:O	2:4T:407:TRP:NE1	1.70	1.24
1:1L:346:TRP:O	2:4X:398:MET:HG2	1.23	1.24
2:2U:101:ASN:ND2	1:3I:258:ASN:OD1	1.69	1.24
2:2H:406:HIS:CD2	1:3A:263:PRO:HD3	1.71	1.24
1:1B:261:PRO:HB3	2:4O:404:PHE:CD2	1.72	1.23
1:1J:262:TYR:CA	2:4V:406:HIS:NE2	2.01	1.23
2:1T:404:PHE:CE2	1:2G:261:PRO:HB3	1.74	1.23
2:1U:404:PHE:CE2	1:2I:261:PRO:HB3	1.73	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2U:11:GLN:HE22	1:3I:249:ASN:N	1.36	1.23
1:1D:346:TRP:CB	2:4Q:397:ALA:O	1.86	1.23
1:1F:260:VAL:CB	2:4S:407:TRP:HE1	1.48	1.23
1:1I:262:TYR:CA	2:4U:406:HIS:NE2	2.00	1.23
1:1G:346:TRP:O	2:4T:398:MET:CG	1.86	1.23
1:1I:346:TRP:O	2:4U:398:MET:CG	1.86	1.23
2:2Q:406:HIS:CD2	1:3D:263:PRO:HD3	1.73	1.23
2:1T:214:PHE:CD1	1:2G:326:LYS:HE2	1.72	1.23
1:1B:263:PRO:HD3	2:4O:406:HIS:CG	1.74	1.22
1:1D:249:ASN:N	2:4Q:11:GLN:HE22	1.37	1.22
1:1I:2:ARG:HD3	2:4U:72:PRO:CD	1.68	1.22
1:1G:260:VAL:HB	2:4T:407:TRP:NE1	1.54	1.22
1:1D:348:PRO:CB	2:4Q:394:GLN:HG2	1.68	1.22
2:1U:181:VAL:CG2	1:2I:258:ASN:O	1.87	1.22
2:1V:214:PHE:CD1	1:2J:326:LYS:HE3	1.65	1.22
1:1E:351:PHE:CB	2:4R:178:SER:O	1.88	1.22
2:1T:181:VAL:HG21	1:2G:258:ASN:O	1.10	1.22
2:1X:214:PHE:CD1	1:2L:326:LYS:CE	2.22	1.22
1:1C:263:PRO:HD3	2:4P:406:HIS:CG	1.74	1.22
2:1U:178:SER:O	1:2I:351:PHE:O	1.54	1.22
2:2O:406:HIS:CD2	1:3B:263:PRO:HD3	1.75	1.22
2:2R:101:ASN:ND2	1:3E:258:ASN:OD1	1.72	1.22
1:1C:353:VAL:HB	2:4P:179:ASP:OD1	1.40	1.21
1:1E:263:PRO:HD3	2:4R:406:HIS:CG	1.74	1.21
1:1F:263:PRO:HD3	2:4S:406:HIS:CG	1.75	1.21
2:2S:221:THR:OG1	1:3F:324:VAL:HG21	1.38	1.21
1:1B:249:ASN:H	2:4O:11:GLN:NE2	1.37	1.21
1:1D:351:PHE:CB	2:4Q:178:SER:O	1.86	1.21
1:1G:262:TYR:CA	2:4T:406:HIS:NE2	2.04	1.21
2:1W:214:PHE:CD1	1:2K:326:LYS:HE3	1.73	1.21
2:2T:11:GLN:HE22	1:3G:249:ASN:N	1.36	1.21
1:1F:353:VAL:HB	2:4S:179:ASP:OD1	1.40	1.21
1:1J:346:TRP:O	2:4V:398:MET:CG	1.89	1.21
1:1G:258:ASN:OD1	2:4T:101:ASN:ND2	1.74	1.21
1:1K:262:TYR:CA	2:4W:406:HIS:NE2	2.04	1.21
1:1C:2:ARG:CD	2:4P:72:PRO:HD2	1.71	1.20
2:2O:221:THR:OG1	1:3B:324:VAL:HG21	1.38	1.20
1:1E:348:PRO:CB	2:4R:394:GLN:HG2	1.72	1.20
1:1D:263:PRO:HD3	2:4Q:406:HIS:CG	1.74	1.20
1:1N:263:PRO:HD3	2:4Z:406:HIS:CG	1.76	1.20
1:1C:260:VAL:HB	2:4P:407:TRP:NE1	1.55	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2P:406:HIS:CD2	1:3C:263:PRO:HD3	1.76	1.20
2:2S:404:PHE:CE2	1:3F:261:PRO:HB3	1.75	1.20
1:1D:261:PRO:HB3	2:4Q:404:PHE:CD2	1.77	1.20
1:1E:260:VAL:O	2:4R:407:TRP:CD1	1.93	1.20
1:1M:249:ASN:N	2:4Y:11:GLN:HE22	1.40	1.20
2:1T:221:THR:CA	1:2G:324:VAL:HG11	1.70	1.20
1:1E:2:ARG:HG3	2:4R:72:PRO:CG	1.72	1.19
1:1A:263:PRO:HD3	2:4H:406:HIS:CG	1.75	1.19
1:1D:2:ARG:HG3	2:4Q:72:PRO:CG	1.72	1.19
2:1X:214:PHE:CG	1:2L:326:LYS:CE	2.23	1.19
1:1E:249:ASN:N	2:4R:11:GLN:HE22	1.40	1.19
1:1E:262:TYR:C	2:4R:406:HIS:NE2	1.95	1.19
1:1G:346:TRP:O	2:4T:398:MET:HG2	1.39	1.19
2:1X:221:THR:CA	1:2L:324:VAL:HG11	1.73	1.19
2:2H:404:PHE:CE2	1:3A:261:PRO:HB3	1.77	1.19
1:1N:258:ASN:OD1	2:4Z:101:ASN:ND2	1.74	1.19
2:2S:11:GLN:HE22	1:3F:249:ASN:N	1.41	1.19
1:1A:324:VAL:HG21	2:4H:221:THR:OG1	1.44	1.18
1:1B:245:ASP:OD1	2:4O:77:SER:HB3	1.38	1.18
1:1B:348:PRO:CG	2:4O:394:GLN:HG2	1.73	1.18
1:1C:249:ASN:H	2:4P:11:GLN:CD	1.44	1.18
1:1C:348:PRO:CG	2:4P:394:GLN:HG2	1.71	1.18
1:1L:262:TYR:CA	2:4X:406:HIS:NE2	2.06	1.18
1:1D:262:TYR:CA	2:4Q:406:HIS:CD2	2.27	1.18
2:1T:214:PHE:CD1	1:2G:326:LYS:HE3	1.75	1.18
2:2T:11:GLN:NE2	1:3G:249:ASN:H	1.41	1.18
1:1E:346:TRP:CB	2:4R:397:ALA:O	1.92	1.18
1:1F:261:PRO:HA	2:4S:404:PHE:CA	1.71	1.18
1:1F:346:TRP:O	2:4S:398:MET:CG	1.91	1.18
2:2P:221:THR:OG1	1:3C:324:VAL:HG21	1.42	1.18
1:1D:262:TYR:C	2:4Q:406:HIS:NE2	1.97	1.18
2:1V:404:PHE:CE2	1:2J:261:PRO:HB3	1.77	1.18
1:1C:351:PHE:CB	2:4P:178:SER:O	1.91	1.18
1:1D:348:PRO:HG3	2:4Q:394:GLN:HA	1.18	1.18
2:1X:100:GLY:HA2	1:2L:253:THR:CB	1.72	1.18
2:2V:11:GLN:HE22	1:3J:249:ASN:N	1.40	1.18
2:2V:101:ASN:ND2	1:3J:258:ASN:OD1	1.73	1.18
1:1C:249:ASN:H	2:4P:11:GLN:NE2	1.41	1.17
2:1V:181:VAL:HB	1:2J:258:ASN:HA	1.19	1.17
1:1C:263:PRO:HD3	2:4P:406:HIS:CD2	1.78	1.17
1:1G:263:PRO:HD3	2:4T:406:HIS:CG	1.79	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1X:221:THR:OG1	1:2L:324:VAL:CG2	1.92	1.17
2:2U:11:GLN:NE2	1:3I:249:ASN:H	1.40	1.17
1:1E:261:PRO:CA	2:4R:404:PHE:HA	1.72	1.17
2:1W:214:PHE:CB	1:2K:326:LYS:HE2	1.75	1.17
2:2U:404:PHE:CD2	1:3I:261:PRO:HB3	1.80	1.17
1:1M:262:TYR:CA	2:4Y:406:HIS:NE2	2.07	1.17
2:1W:100:GLY:HA2	1:2K:253:THR:CB	1.74	1.17
1:1C:346:TRP:CB	2:4P:397:ALA:O	1.92	1.16
1:1G:249:ASN:H	2:4T:11:GLN:CD	1.46	1.16
2:1Z:181:VAL:H	1:2N:258:ASN:ND2	1.41	1.16
1:1N:257:THR:OG1	2:4Z:100:GLY:O	1.61	1.16
2:1T:221:THR:OG1	1:2G:324:VAL:CG2	1.92	1.16
2:2V:404:PHE:CD1	1:3J:261:PRO:HA	1.81	1.16
1:1F:262:TYR:C	2:4S:406:HIS:NE2	1.98	1.16
1:1K:346:TRP:O	2:4W:398:MET:CG	1.92	1.16
1:1D:248:LEU:HD13	5:4Q:501:GDP:C8	1.80	1.16
1:1D:249:ASN:N	2:4Q:11:GLN:NE2	1.94	1.16
1:1I:261:PRO:HA	2:4U:404:PHE:HA	1.23	1.16
2:2R:221:THR:OG1	1:3E:324:VAL:HG21	1.42	1.16
1:1M:346:TRP:O	2:4Y:398:MET:CG	1.93	1.16
2:2Q:101:ASN:ND2	1:3D:258:ASN:OD1	1.77	1.16
1:1A:257:THR:OG1	2:4H:100:GLY:O	1.62	1.15
1:1L:346:TRP:O	2:4X:398:MET:CG	1.94	1.15
2:1X:214:PHE:CD1	1:2L:326:LYS:HE2	1.81	1.15
2:2Q:221:THR:OG1	1:3D:324:VAL:HG21	1.43	1.15
2:2T:404:PHE:CD2	1:3G:261:PRO:HB3	1.80	1.15
1:1A:261:PRO:HB3	2:4H:404:PHE:CD2	1.79	1.15
1:1C:348:PRO:CB	2:4P:394:GLN:HG2	1.74	1.15
2:1S:404:PHE:CE2	1:2F:261:PRO:HB3	1.80	1.15
2:2V:11:GLN:NE2	1:3J:249:ASN:H	1.44	1.15
2:2W:404:PHE:CD1	1:3K:261:PRO:HA	1.82	1.15
1:1D:2:ARG:HD3	2:4Q:72:PRO:CD	1.77	1.15
1:1F:261:PRO:CA	2:4S:404:PHE:HA	1.77	1.15
1:1L:2:ARG:HD3	2:4X:72:PRO:HD2	1.19	1.15
2:1S:214:PHE:CD1	1:2F:326:LYS:CE	2.30	1.15
2:2W:101:ASN:ND2	1:3K:258:ASN:OD1	1.79	1.15
1:1J:351:PHE:HB2	2:4V:178:SER:O	1.46	1.15
1:1L:434:GLU:O	2:4X:401:ARG:NH2	1.79	1.15
2:1Z:101:ASN:HB2	1:2N:254:GLU:HG2	1.27	1.15
2:2W:404:PHE:CG	1:3K:261:PRO:HA	1.82	1.15
1:1A:326:LYS:HB2	2:4H:222:PRO:HG2	1.26	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1D:261:PRO:CA	2:4Q:404:PHE:HA	1.77	1.14
1:1I:2:ARG:CD	2:4U:72:PRO:HD2	1.76	1.14
1:1G:249:ASN:N	2:4T:11:GLN:HE22	1.46	1.14
2:2U:100:GLY:O	1:3I:257:THR:OG1	1.64	1.14
1:1E:249:ASN:N	2:4R:11:GLN:NE2	1.95	1.14
1:1I:262:TYR:N	2:4U:406:HIS:NE2	1.95	1.14
2:2O:180:THR:HG23	1:3B:258:ASN:HD21	1.02	1.14
1:1B:2:ARG:HD3	2:4O:72:PRO:HD2	1.26	1.14
1:1F:249:ASN:N	2:4S:11:GLN:HE22	1.42	1.14
1:1N:326:LYS:HB2	2:4Z:222:PRO:HG2	1.25	1.14
1:1J:245:ASP:OD1	2:4V:77:SER:HB3	1.42	1.14
1:1B:332:ILE:CG2	2:4O:177:VAL:HG23	1.77	1.13
1:1C:260:VAL:CB	2:4P:407:TRP:HE1	1.59	1.13
1:1E:333:ALA:HB1	2:4R:176:LYS:HE2	1.17	1.13
2:1V:214:PHE:CB	1:2J:326:LYS:HE2	1.79	1.13
2:1V:404:PHE:CE1	1:2J:260:VAL:C	2.20	1.13
2:1W:181:VAL:CG2	1:2K:258:ASN:HB3	1.77	1.13
2:1W:181:VAL:HG23	1:2K:258:ASN:CB	1.79	1.13
1:1C:262:TYR:HA	2:4P:406:HIS:CD2	1.82	1.13
1:1F:437:VAL:O	2:4S:401:ARG:NH1	1.81	1.13
2:1X:101:ASN:HB2	1:2L:254:GLU:HG2	1.26	1.13
2:2V:404:PHE:CG	1:3J:261:PRO:HA	1.84	1.13
2:1W:404:PHE:CE1	1:2K:260:VAL:C	2.20	1.13
2:1X:181:VAL:HG23	1:2L:258:ASN:CB	1.78	1.13
2:1X:214:PHE:CB	1:2L:326:LYS:HE2	1.78	1.13
2:2R:180:THR:HG23	1:3E:258:ASN:HD21	1.03	1.13
2:2T:394:GLN:HG2	1:3G:348:PRO:CG	1.78	1.13
2:2U:222:PRO:HG2	1:3I:326:LYS:HB2	1.18	1.13
1:1C:262:TYR:C	2:4P:406:HIS:NE2	2.02	1.13
1:1D:348:PRO:HG2	2:4Q:394:GLN:HB3	1.29	1.13
1:1M:245:ASP:OD1	2:4Y:77:SER:HB3	1.48	1.13
1:1M:249:ASN:H	2:4Y:11:GLN:NE2	1.47	1.13
2:1T:221:THR:OG1	1:2G:324:VAL:HG21	1.45	1.13
2:1Y:100:GLY:HA2	1:2M:253:THR:CB	1.78	1.13
2:2T:180:THR:HG23	1:3G:258:ASN:HD21	0.96	1.13
2:2V:404:PHE:CD2	1:3J:261:PRO:HB3	1.82	1.13
1:1B:257:THR:OG1	2:4O:100:GLY:O	1.67	1.12
1:1C:2:ARG:HG3	2:4P:72:PRO:CG	1.77	1.13
1:1C:248:LEU:HD13	5:4P:501:GDP:C8	1.83	1.13
1:1D:249:ASN:H	2:4Q:11:GLN:NE2	1.45	1.13
1:1J:434:GLU:O	2:4V:401:ARG:NH2	1.80	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1M:2:ARG:HD3	2:4Y:72:PRO:HD2	1.21	1.12
1:1N:351:PHE:HB2	2:4Z:178:SER:O	1.46	1.12
2:2S:11:GLN:NE2	1:3F:249:ASN:H	1.46	1.12
2:2V:394:GLN:HG2	1:3J:348:PRO:CG	1.78	1.13
2:1Y:178:SER:O	1:2M:351:PHE:O	1.67	1.12
1:1E:348:PRO:HG3	2:4R:394:GLN:HA	1.16	1.12
1:1F:2:ARG:HG3	2:4S:72:PRO:CG	1.79	1.12
2:1T:221:THR:HA	1:2G:324:VAL:HG11	1.23	1.12
2:1W:221:THR:HA	1:2K:324:VAL:CG1	1.78	1.12
2:1Y:181:VAL:CG2	1:2M:258:ASN:O	1.97	1.12
2:2P:180:THR:HG23	1:3C:258:ASN:HD21	1.04	1.12
2:2S:394:GLN:HG2	1:3F:348:PRO:CG	1.79	1.12
2:2U:394:GLN:HG2	1:3I:348:PRO:CG	1.78	1.12
2:2V:100:GLY:O	1:3J:257:THR:OG1	1.65	1.12
2:2X:404:PHE:CG	1:3L:261:PRO:HA	1.84	1.12
1:1A:326:LYS:HE2	2:4H:214:PHE:HB2	1.16	1.12
1:1C:348:PRO:HG3	2:4P:394:GLN:HA	1.31	1.12
1:1I:263:PRO:HD3	2:4U:406:HIS:CG	1.84	1.12
1:1M:351:PHE:HB2	2:4Y:178:SER:O	1.43	1.12
2:1W:224:TYR:CD2	1:2K:247:ALA:O	2.02	1.12
2:1X:224:TYR:CD2	1:2L:247:ALA:O	2.03	1.12
1:1G:262:TYR:N	2:4T:406:HIS:NE2	1.98	1.12
1:1M:263:PRO:HD3	2:4Y:406:HIS:CG	1.83	1.12
1:1N:326:LYS:HE2	2:4Z:214:PHE:HB2	1.30	1.12
2:2R:404:PHE:CE2	1:3E:261:PRO:HB3	1.82	1.12
1:1B:326:LYS:HE2	2:4O:214:PHE:HB2	1.12	1.12
1:1E:248:LEU:HD13	5:4R:501:GDP:C8	1.84	1.12
1:1F:262:TYR:CA	2:4S:406:HIS:NE2	2.12	1.12
1:1J:248:LEU:HA	2:4V:11:GLN:NE2	1.63	1.12
1:1L:351:PHE:HB2	2:4X:178:SER:O	1.50	1.12
2:1U:221:THR:OG1	1:2I:324:VAL:HG21	1.40	1.12
2:1V:221:THR:OG1	1:2J:324:VAL:HG21	1.38	1.12
2:2W:222:PRO:HG2	1:3K:326:LYS:HB2	1.25	1.12
1:1D:348:PRO:CG	2:4Q:394:GLN:HG2	1.79	1.11
1:1E:249:ASN:H	2:4R:11:GLN:NE2	1.48	1.11
1:1F:260:VAL:HB	2:4S:407:TRP:CE2	1.85	1.11
1:1F:332:ILE:CG2	2:4S:177:VAL:HG23	1.79	1.11
1:1L:249:ASN:N	2:4X:11:GLN:HE22	1.48	1.11
2:1V:221:THR:HA	1:2J:324:VAL:CG1	1.78	1.11
2:1W:221:THR:OG1	1:2K:324:VAL:HG21	1.41	1.11
2:2O:404:PHE:CE2	1:3B:261:PRO:HB3	1.83	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2S:404:PHE:CD2	1:3F:261:PRO:HB3	1.83	1.11
2:2U:404:PHE:CD1	1:3I:261:PRO:HA	1.85	1.11
2:2W:394:GLN:HG2	1:3K:348:PRO:CG	1.79	1.11
1:1E:348:PRO:HG3	2:4R:394:GLN:CA	1.78	1.11
1:1J:2:ARG:HD3	2:4V:72:PRO:CD	1.79	1.11
2:1W:100:GLY:CA	1:2K:253:THR:CG2	2.27	1.11
2:1X:181:VAL:HG21	1:2L:258:ASN:O	0.94	1.11
2:2U:406:HIS:CD2	1:3I:263:PRO:CD	2.33	1.11
2:2V:406:HIS:CD2	1:3J:263:PRO:CD	2.32	1.11
1:1B:324:VAL:HG21	2:4O:221:THR:OG1	1.47	1.11
2:1T:214:PHE:CG	1:2G:326:LYS:HE2	1.85	1.11
2:1V:181:VAL:N	1:2J:258:ASN:ND2	1.72	1.11
2:1W:181:VAL:HG21	1:2K:258:ASN:C	1.71	1.11
2:1Z:100:GLY:HA2	1:2N:253:THR:HB	1.13	1.11
1:1B:261:PRO:HA	2:4O:404:PHE:HA	1.28	1.11
2:2H:180:THR:HG23	1:3A:258:ASN:HD21	0.99	1.11
2:2R:394:GLN:HG2	1:3E:348:PRO:CG	1.81	1.11
1:1D:326:LYS:HE2	2:4Q:214:PHE:HB2	1.32	1.10
1:1F:351:PHE:CB	2:4S:178:SER:O	1.97	1.10
2:1T:178:SER:CB	1:2G:349:THR:HB	1.81	1.10
2:1W:404:PHE:CE2	1:2K:261:PRO:HB3	1.86	1.10
2:1X:100:GLY:HA3	1:2L:253:THR:HG21	1.29	1.10
2:2W:404:PHE:CD2	1:3K:261:PRO:HB3	1.86	1.10
1:1A:261:PRO:HB3	2:4H:404:PHE:CE2	1.87	1.10
2:2V:222:PRO:HG2	1:3J:326:LYS:HB2	1.19	1.10
2:2W:406:HIS:CD2	1:3K:263:PRO:CD	2.34	1.10
2:2X:101:ASN:ND2	1:3L:258:ASN:OD1	1.84	1.10
1:1A:258:ASN:HD21	2:4H:180:THR:HG23	1.13	1.10
1:1D:262:TYR:OH	2:4Q:401:ARG:O	1.63	1.10
1:1I:248:LEU:HA	2:4U:11:GLN:NE2	1.65	1.10
1:1L:245:ASP:OD1	2:4X:77:SER:HB3	1.52	1.10
1:1N:324:VAL:HG21	2:4Z:221:THR:OG1	1.51	1.10
2:2Q:404:PHE:CE2	1:3D:261:PRO:HB3	1.86	1.10
2:2T:222:PRO:HG2	1:3G:326:LYS:HB2	1.22	1.10
2:2W:11:GLN:HE22	1:3K:249:ASN:N	1.48	1.10
1:1C:258:ASN:ND2	2:4P:180:THR:HG23	1.66	1.10
1:1C:260:VAL:HB	2:4P:407:TRP:HE1	0.97	1.10
1:1E:261:PRO:HB3	2:4R:404:PHE:CD2	1.86	1.10
1:1K:245:ASP:OD1	2:4W:77:SER:HB3	1.49	1.10
2:1R:181:VAL:HG21	1:2E:258:ASN:O	1.51	1.10
2:1X:100:GLY:HA2	1:2L:253:THR:HB	1.11	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2T:100:GLY:O	1:3G:257:THR:OG1	1.67	1.10
1:1B:326:LYS:HB2	2:4O:222:PRO:HG2	1.33	1.10
1:1C:249:ASN:N	2:4P:11:GLN:NE2	1.96	1.10
1:1C:326:LYS:HE2	2:4P:214:PHE:HB2	1.19	1.10
1:1D:351:PHE:O	2:4Q:180:THR:N	1.85	1.10
1:1J:262:TYR:CA	2:4V:406:HIS:CD2	2.31	1.10
1:1J:262:TYR:N	2:4V:406:HIS:NE2	1.99	1.10
2:2P:404:PHE:CE2	1:3C:261:PRO:HB3	1.87	1.10
2:2X:404:PHE:N	1:3L:261:PRO:O	1.85	1.10
1:1F:249:ASN:N	2:4S:11:GLN:NE2	1.98	1.09
1:1G:260:VAL:HB	2:4T:407:TRP:CE2	1.85	1.09
2:1V:100:GLY:CA	1:2J:253:THR:CG2	2.30	1.09
2:2X:394:GLN:HG2	1:3L:348:PRO:CG	1.81	1.09
2:2Y:404:PHE:N	1:3M:261:PRO:O	1.85	1.09
1:1A:245:ASP:OD1	2:4H:77:SER:HB3	1.50	1.09
1:1E:346:TRP:O	2:4R:398:MET:CG	2.00	1.09
1:1F:333:ALA:HB1	2:4S:176:LYS:HE2	1.34	1.09
1:1I:249:ASN:N	2:4U:11:GLN:HE22	1.49	1.09
1:1K:2:ARG:HD3	2:4W:72:PRO:HD2	1.12	1.09
2:1V:100:GLY:HA2	1:2J:253:THR:CG2	1.81	1.09
2:1V:181:VAL:HG23	1:2J:258:ASN:HB3	1.13	1.09
2:2P:101:ASN:ND2	1:3C:258:ASN:OD1	1.82	1.09
2:2V:224:TYR:HE2	1:3J:248:LEU:HB2	1.15	1.09
1:1D:348:PRO:HG3	2:4Q:394:GLN:CA	1.81	1.09
2:1T:181:VAL:N	1:2G:258:ASN:HD22	1.49	1.09
2:1U:181:VAL:HG21	1:2I:258:ASN:O	0.91	1.09
2:1V:224:TYR:OH	1:2J:248:LEU:HD22	1.50	1.09
2:1Y:221:THR:HA	1:2M:324:VAL:HG11	1.11	1.09
2:2Y:394:GLN:HG2	1:3M:348:PRO:CG	1.82	1.09
1:1E:262:TYR:OH	2:4R:401:ARG:O	1.66	1.09
1:1E:351:PHE:O	2:4R:180:THR:N	1.84	1.09
1:1F:348:PRO:HG3	2:4S:394:GLN:HA	1.26	1.09
2:1X:221:THR:OG1	1:2L:324:VAL:HG21	1.48	1.09
2:2Q:394:GLN:HG2	1:3D:348:PRO:CG	1.82	1.09
2:2U:394:GLN:HG2	1:3I:348:PRO:HG3	1.31	1.09
2:2U:404:PHE:CG	1:3I:261:PRO:HA	1.88	1.09
1:1E:348:PRO:HG2	2:4R:394:GLN:HB3	1.26	1.09
2:1U:214:PHE:CG	1:2I:326:LYS:CE	2.27	1.09
2:1V:100:GLY:HA2	1:2J:253:THR:HB	1.34	1.09
2:1W:100:GLY:HA2	1:2K:253:THR:HB	1.21	1.09
2:1W:100:GLY:HA3	1:2K:253:THR:HG21	1.28	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1W:404:PHE:CD2	1:2K:261:PRO:HA	1.87	1.09
2:1Y:101:ASN:HB2	1:2M:254:GLU:HG2	1.17	1.09
2:2H:100:GLY:HA2	1:3A:253:THR:HB	1.28	1.09
2:2Y:180:THR:HG23	1:3M:258:ASN:HD21	0.92	1.09
1:1E:353:VAL:CB	2:4R:179:ASP:OD1	2.01	1.08
1:1K:248:LEU:HA	2:4W:11:GLN:NE2	1.66	1.08
2:2V:180:THR:HG23	1:3J:258:ASN:ND2	1.67	1.08
1:1G:262:TYR:C	2:4T:406:HIS:NE2	2.06	1.08
2:1U:181:VAL:HG23	1:2I:258:ASN:HB3	1.33	1.08
2:1X:181:VAL:HB	1:2L:258:ASN:CA	1.83	1.08
2:2Q:214:PHE:HB2	1:3D:326:LYS:HE2	1.10	1.08
2:2T:406:HIS:CD2	1:3G:263:PRO:CD	2.36	1.08
2:2W:180:THR:HG23	1:3K:258:ASN:ND2	1.69	1.08
2:2X:404:PHE:CD1	1:3L:261:PRO:HA	1.88	1.08
2:2Z:394:GLN:HG2	1:3N:348:PRO:CG	1.83	1.08
1:1F:348:PRO:CB	2:4S:394:GLN:HG2	1.84	1.08
1:1F:348:PRO:HG2	2:4S:394:GLN:HB3	1.32	1.08
2:1S:178:SER:CB	1:2F:349:THR:HB	1.83	1.08
2:2S:180:THR:HG23	1:3F:258:ASN:HD21	1.00	1.08
2:2U:180:THR:HG23	1:3I:258:ASN:ND2	1.67	1.08
2:2Y:404:PHE:CG	1:3M:261:PRO:HA	1.87	1.08
1:1B:258:ASN:ND2	2:4O:180:THR:HG23	1.66	1.08
1:1B:351:PHE:CB	2:4O:178:SER:O	2.02	1.08
1:1E:349:THR:OG1	2:4R:184:PRO:CD	2.01	1.08
1:1F:348:PRO:HG3	2:4S:394:GLN:CA	1.84	1.08
1:1G:260:VAL:CB	2:4T:407:TRP:HE1	1.65	1.08
1:1G:437:VAL:O	2:4T:401:ARG:NH1	1.84	1.08
1:1K:351:PHE:HB2	2:4W:178:SER:O	1.51	1.08
2:2R:11:GLN:HE22	1:3E:249:ASN:N	1.49	1.08
2:2W:224:TYR:HE2	1:3K:248:LEU:HB2	1.14	1.08
1:1A:333:ALA:HB1	2:4H:176:LYS:HE2	1.35	1.08
1:1K:434:GLU:O	2:4W:401:ARG:NH2	1.84	1.08
1:1L:260:VAL:O	2:4X:407:TRP:CD1	2.07	1.08
1:1B:258:ASN:HD21	2:4O:180:THR:HG23	1.10	1.07
1:1B:262:TYR:HA	2:4O:406:HIS:CD2	1.89	1.07
1:1D:260:VAL:O	2:4Q:407:TRP:CD1	2.07	1.07
1:1K:249:ASN:N	2:4W:11:GLN:HE22	1.52	1.07
1:1M:257:THR:CB	2:4Y:100:GLY:O	2.02	1.07
2:1S:214:PHE:CD1	1:2F:326:LYS:HE2	1.89	1.07
2:1V:100:GLY:HA2	1:2J:253:THR:CB	1.83	1.07
2:1W:224:TYR:OH	1:2K:248:LEU:HD22	1.53	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2P:214:PHE:HB2	1:3C:326:LYS:HE2	1.09	1.07
2:2Q:180:THR:HG23	1:3D:258:ASN:HD21	1.05	1.07
2:2S:214:PHE:HB2	1:3F:326:LYS:HE2	1.09	1.07
1:1D:314:ALA:CB	2:4Q:181:VAL:HG11	1.85	1.07
2:1R:404:PHE:CE2	1:2E:261:PRO:HB3	1.89	1.07
2:1V:181:VAL:HG21	1:2J:258:ASN:C	1.74	1.07
2:2Z:180:THR:HG23	1:3N:258:ASN:HD21	0.95	1.07
1:1D:353:VAL:CB	2:4Q:179:ASP:OD1	2.02	1.07
1:1J:257:THR:CB	2:4V:100:GLY:O	2.03	1.07
2:1V:100:GLY:HA3	1:2J:253:THR:HG21	1.36	1.07
2:2H:394:GLN:HG2	1:3A:348:PRO:CG	1.84	1.07
2:2R:404:PHE:CD2	1:3E:261:PRO:HB3	1.88	1.07
2:2T:180:THR:HG23	1:3G:258:ASN:ND2	1.68	1.07
2:2W:11:GLN:NE2	1:3K:249:ASN:H	1.51	1.07
2:2X:214:PHE:CB	1:3L:326:LYS:HE2	1.84	1.07
2:2Z:100:GLY:HA2	1:3N:253:THR:HB	1.30	1.07
1:1A:348:PRO:CG	2:4H:394:GLN:HG2	1.83	1.07
1:1I:257:THR:CB	2:4U:100:GLY:O	2.02	1.07
1:1J:249:ASN:N	2:4V:11:GLN:HE22	1.52	1.07
1:1N:261:PRO:HB3	2:4Z:404:PHE:CE2	1.88	1.07
2:1Y:181:VAL:HB	1:2M:258:ASN:HA	1.10	1.07
2:2O:101:ASN:ND2	1:3B:258:ASN:OD1	1.87	1.07
2:2O:394:GLN:HG2	1:3B:348:PRO:CG	1.84	1.07
2:2P:394:GLN:HG2	1:3C:348:PRO:CG	1.83	1.07
1:1B:263:PRO:CD	2:4O:406:HIS:CD2	2.37	1.07
1:1E:253:THR:C	2:4R:100:GLY:HA2	1.75	1.07
1:1N:262:TYR:HA	2:4Z:406:HIS:CD2	1.89	1.07
2:1S:221:THR:OG1	1:2F:324:VAL:HG21	1.54	1.07
2:1Z:181:VAL:HG21	1:2N:258:ASN:O	1.53	1.07
2:2W:100:GLY:O	1:3K:257:THR:OG1	1.71	1.07
2:2Y:214:PHE:CB	1:3M:326:LYS:HE2	1.83	1.07
1:1F:346:TRP:HB2	2:4S:398:MET:HA	1.37	1.06
1:1F:349:THR:OG1	2:4S:184:PRO:CD	2.02	1.06
2:1X:404:PHE:CE1	1:2L:260:VAL:C	2.29	1.06
2:2X:404:PHE:CD2	1:3L:261:PRO:HB3	1.91	1.06
1:1D:263:PRO:HD3	2:4Q:406:HIS:CD2	1.90	1.06
2:2X:221:THR:OG1	1:3L:324:VAL:CG2	2.04	1.06
2:2Y:101:ASN:ND2	1:3M:258:ASN:OD1	1.89	1.06
1:1C:261:PRO:HA	2:4P:404:PHE:HA	1.09	1.06
1:1D:333:ALA:CB	2:4Q:176:LYS:HE2	1.86	1.06
1:1E:437:VAL:O	2:4R:401:ARG:NH1	1.88	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1F:260:VAL:O	2:4S:407:TRP:NE1	1.88	1.06
2:1T:178:SER:O	1:2G:351:PHE:O	1.72	1.06
2:1V:403:ALA:HB2	1:2J:262:TYR:CZ	1.90	1.06
2:1Y:100:GLY:HA2	1:2M:253:THR:HB	1.09	1.06
2:2O:100:GLY:HA2	1:3B:253:THR:HB	1.30	1.06
2:2R:214:PHE:HB2	1:3E:326:LYS:HE2	1.10	1.06
2:2X:224:TYR:HE2	1:3L:248:LEU:HB2	1.15	1.06
1:1D:253:THR:C	2:4Q:100:GLY:HA2	1.75	1.06
1:1K:257:THR:CB	2:4W:100:GLY:O	2.04	1.06
2:1S:181:VAL:H	1:2F:258:ASN:ND2	1.51	1.06
2:2X:222:PRO:HG2	1:3L:326:LYS:HB2	1.33	1.06
1:1B:2:ARG:HG3	2:4O:72:PRO:CG	1.86	1.06
1:1C:333:ALA:CB	2:4P:176:LYS:HE2	1.84	1.06
1:1G:249:ASN:N	2:4T:11:GLN:NE2	2.04	1.06
1:1M:258:ASN:OD1	2:4Y:101:ASN:ND2	1.88	1.06
2:1W:100:GLY:HA2	1:2K:253:THR:CG2	1.85	1.06
2:2O:214:PHE:HB2	1:3B:326:LYS:HE2	1.08	1.06
2:2S:180:THR:HG23	1:3F:258:ASN:ND2	1.71	1.06
2:2V:394:GLN:HG2	1:3J:348:PRO:HG3	1.29	1.06
2:2V:404:PHE:N	1:3J:261:PRO:O	1.88	1.06
2:2Y:100:GLY:HA2	1:3M:253:THR:HB	1.34	1.06
1:1B:249:ASN:H	2:4O:11:GLN:CD	1.58	1.05
1:1F:249:ASN:H	2:4S:11:GLN:NE2	1.50	1.05
1:1G:249:ASN:H	2:4T:11:GLN:NE2	1.53	1.05
1:1L:263:PRO:HD3	2:4X:406:HIS:CG	1.90	1.05
2:1W:181:VAL:HB	1:2K:258:ASN:HA	1.06	1.05
2:2R:221:THR:HG1	1:3E:324:VAL:HG21	1.06	1.05
2:2S:222:PRO:HG2	1:3F:326:LYS:HB2	1.29	1.05
2:2T:214:PHE:HB2	1:3G:326:LYS:HE2	1.08	1.05
2:2U:224:TYR:HE2	1:3I:248:LEU:HB2	1.19	1.05
2:2W:394:GLN:HG2	1:3K:348:PRO:HG3	1.31	1.05
2:2Y:224:TYR:HE2	1:3M:248:LEU:HB2	1.19	1.05
2:2Z:101:ASN:ND2	1:3N:258:ASN:OD1	1.90	1.05
2:2Z:214:PHE:CB	1:3N:326:LYS:HE2	1.85	1.05
1:1B:333:ALA:HB1	2:4O:176:LYS:HE2	1.16	1.05
1:1C:2:ARG:HD3	2:4P:72:PRO:HD2	1.10	1.05
1:1D:332:ILE:HG22	2:4Q:177:VAL:HG23	1.38	1.05
1:1I:258:ASN:OD1	2:4U:101:ASN:ND2	1.86	1.05
2:1U:100:GLY:HA2	1:2I:253:THR:CG2	1.86	1.05
2:1U:224:TYR:OH	1:2I:248:LEU:HD22	1.54	1.05
2:1U:404:PHE:CE1	1:2I:260:VAL:C	2.30	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1V:404:PHE:CD2	1:2J:261:PRO:HA	1.90	1.05
2:1X:100:GLY:CA	1:2L:253:THR:CG2	2.33	1.05
2:1Y:181:VAL:HG23	1:2M:258:ASN:CB	1.86	1.05
2:1Y:214:PHE:CG	1:2M:326:LYS:CE	2.39	1.05
2:2H:101:ASN:ND2	1:3A:258:ASN:OD1	1.90	1.05
1:1E:249:ASN:N	2:4R:11:GLN:OE1	1.88	1.05
1:1N:261:PRO:HB3	2:4Z:404:PHE:CD2	1.92	1.05
1:1N:325:PRO:HD2	2:4Z:223:THR:HA	1.38	1.05
1:1N:346:TRP:O	2:4Z:398:MET:HG2	1.53	1.05
2:1H:100:GLY:HA2	1:2A:253:THR:HB	1.33	1.05
2:2R:222:PRO:HG2	1:3E:326:LYS:HB2	1.37	1.05
2:2W:221:THR:OG1	1:3K:324:VAL:CG2	2.05	1.05
2:2W:404:PHE:N	1:3K:261:PRO:O	1.86	1.05
1:1B:262:TYR:C	2:4O:406:HIS:NE2	2.10	1.05
1:1E:332:ILE:HG22	2:4R:177:VAL:HG23	1.37	1.05
1:1E:346:TRP:CA	2:4R:397:ALA:O	2.04	1.05
1:1F:346:TRP:HA	2:4S:397:ALA:O	1.54	1.05
1:1I:249:ASN:H	2:4U:11:GLN:CD	1.60	1.05
1:1L:249:ASN:H	2:4X:11:GLN:NE2	1.55	1.05
2:2X:406:HIS:CD2	1:3L:263:PRO:CD	2.39	1.05
1:1B:261:PRO:HA	2:4O:404:PHE:CA	1.85	1.05
1:1C:263:PRO:CD	2:4P:406:HIS:CD2	2.40	1.05
1:1D:2:ARG:CG	2:4Q:72:PRO:HD2	1.87	1.05
1:1E:314:ALA:CB	2:4R:181:VAL:HG11	1.85	1.05
1:1L:257:THR:CB	2:4X:100:GLY:O	2.04	1.05
1:1M:260:VAL:O	2:4Y:407:TRP:CD1	2.09	1.05
2:1Y:181:VAL:HB	1:2M:258:ASN:CA	1.86	1.05
2:2H:404:PHE:N	1:3A:261:PRO:O	1.89	1.05
1:1A:262:TYR:HA	2:4H:406:HIS:CD2	1.91	1.04
1:1F:346:TRP:O	2:4S:398:MET:HG2	1.53	1.04
2:1U:181:VAL:HB	1:2I:258:ASN:HA	1.39	1.04
2:2U:180:THR:HG23	1:3I:258:ASN:HD21	0.93	1.04
2:2V:180:THR:HG23	1:3J:258:ASN:HD21	0.90	1.04
1:1C:257:THR:OG1	2:4P:100:GLY:O	1.73	1.04
1:1C:262:TYR:OH	2:4P:401:ARG:O	1.72	1.04
1:1D:324:VAL:CG1	2:4Q:222:PRO:O	2.06	1.04
1:1G:257:THR:CB	2:4T:100:GLY:O	2.05	1.04
1:1J:263:PRO:HD3	2:4V:406:HIS:CG	1.90	1.04
2:2R:11:GLN:NE2	1:3E:249:ASN:H	1.55	1.04
1:1B:248:LEU:HD13	5:4O:501:GDP:C8	1.93	1.04
1:1C:262:TYR:CA	2:4P:406:HIS:CD2	2.40	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:245:ASP:OD1	2:4R:77:SER:CB	2.04	1.04
1:1K:262:TYR:CA	2:4W:406:HIS:CD2	2.41	1.04
1:1N:262:TYR:CZ	2:4Z:403:ALA:HA	1.92	1.04
2:1T:181:VAL:CG2	1:2G:258:ASN:O	2.04	1.04
2:2U:404:PHE:N	1:3I:261:PRO:O	1.91	1.04
2:2W:214:PHE:CB	1:3K:326:LYS:HE2	1.88	1.04
2:2Z:404:PHE:N	1:3N:261:PRO:O	1.87	1.04
1:1E:324:VAL:CG1	2:4R:222:PRO:O	2.05	1.04
1:1F:351:PHE:O	2:4S:180:THR:N	1.89	1.04
2:1S:214:PHE:CD1	1:2F:326:LYS:HE3	1.91	1.04
2:1W:224:TYR:HD2	1:2K:247:ALA:O	1.35	1.04
2:2U:214:PHE:HB2	1:3I:326:LYS:HE2	1.05	1.04
1:1C:2:ARG:HG3	2:4P:72:PRO:HG2	1.39	1.04
1:1F:351:PHE:O	2:4S:180:THR:CA	2.04	1.04
1:1G:261:PRO:HA	2:4T:404:PHE:HA	1.04	1.04
1:1K:263:PRO:HD3	2:4W:406:HIS:CG	1.93	1.04
1:1L:248:LEU:HA	2:4X:11:GLN:NE2	1.71	1.04
2:1S:221:THR:CA	1:2F:324:VAL:HG11	1.88	1.04
2:1W:100:GLY:CA	1:2K:253:THR:HG21	1.86	1.04
2:2T:394:GLN:HG2	1:3G:348:PRO:HG3	1.35	1.04
2:2X:180:THR:HG23	1:3L:258:ASN:ND2	1.72	1.04
1:1G:248:LEU:HA	2:4T:11:GLN:NE2	1.73	1.03
1:1G:346:TRP:HB2	2:4T:398:MET:HA	1.39	1.03
2:1U:214:PHE:CB	1:2I:326:LYS:HE2	1.88	1.03
2:1V:100:GLY:CA	1:2J:253:THR:HG21	1.88	1.03
2:1V:214:PHE:CE1	1:2J:326:LYS:HE3	1.93	1.03
2:2S:178:SER:O	1:3F:351:PHE:HB2	1.57	1.03
2:2Y:221:THR:OG1	1:3M:324:VAL:CG2	2.06	1.03
1:1C:324:VAL:HG21	2:4P:221:THR:OG1	1.57	1.03
1:1C:333:ALA:HB1	2:4P:176:LYS:HE2	1.06	1.03
1:1C:351:PHE:O	2:4P:180:THR:N	1.91	1.03
1:1D:348:PRO:CG	2:4Q:394:GLN:CB	2.35	1.03
1:1E:348:PRO:CG	2:4R:394:GLN:CB	2.35	1.03
2:1X:214:PHE:CD1	1:2L:326:LYS:HE3	1.87	1.03
2:1Y:221:THR:OG1	1:2M:324:VAL:HG21	1.57	1.03
2:2O:404:PHE:N	1:3B:261:PRO:O	1.92	1.03
2:2P:100:GLY:HA2	1:3C:253:THR:HB	1.35	1.03
1:1A:2:ARG:HD3	2:4H:72:PRO:HD2	1.39	1.03
1:1B:260:VAL:HB	2:4O:407:TRP:HE1	1.18	1.03
1:1B:348:PRO:CB	2:4O:394:GLN:HG2	1.89	1.03
2:1Y:214:PHE:CB	1:2M:326:LYS:HE2	1.88	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2T:178:SER:O	1:3G:351:PHE:HB2	1.58	1.03
2:2X:180:THR:HG23	1:3L:258:ASN:HD21	0.89	1.03
1:1B:2:ARG:HG3	2:4O:72:PRO:HG2	1.38	1.03
1:1C:348:PRO:CG	2:4P:394:GLN:CG	2.37	1.03
1:1D:314:ALA:HB2	2:4Q:181:VAL:HG11	1.39	1.03
1:1G:353:VAL:HB	2:4T:179:ASP:OD1	1.57	1.03
2:1U:403:ALA:HB2	1:2I:262:TYR:CZ	1.91	1.03
2:1V:224:TYR:CD2	1:2J:247:ALA:O	2.12	1.03
2:1X:404:PHE:CD2	1:2L:261:PRO:HA	1.94	1.03
2:2T:404:PHE:CD1	1:3G:261:PRO:HA	1.93	1.03
2:2T:406:HIS:CG	1:3G:263:PRO:HD3	1.93	1.03
2:2W:180:THR:HG23	1:3K:258:ASN:HD21	0.89	1.03
2:2W:403:ALA:HB2	1:3K:262:TYR:CZ	1.92	1.03
2:2Z:404:PHE:CG	1:3N:261:PRO:HA	1.92	1.03
1:1B:2:ARG:CD	2:4O:72:PRO:HD2	1.89	1.03
1:1F:326:LYS:HA	2:4S:210:TYR:CE1	1.94	1.03
1:1F:332:ILE:HG22	2:4S:177:VAL:HG23	1.41	1.03
1:1I:260:VAL:HB	2:4U:407:TRP:CE2	1.93	1.03
1:1J:261:PRO:HA	2:4V:404:PHE:HA	1.41	1.03
1:1K:262:TYR:N	2:4W:406:HIS:NE2	2.06	1.03
2:2Q:404:PHE:CD2	1:3D:261:PRO:HB3	1.93	1.03
2:2S:100:GLY:O	1:3F:257:THR:OG1	1.74	1.03
2:2T:404:PHE:CG	1:3G:261:PRO:HA	1.93	1.03
2:2Z:214:PHE:HB2	1:3N:326:LYS:HE2	1.03	1.03
1:1A:258:ASN:ND2	2:4H:180:THR:HG23	1.73	1.02
1:1A:263:PRO:CD	2:4H:406:HIS:CD2	2.40	1.02
1:1G:346:TRP:HA	2:4T:397:ALA:O	1.59	1.02
1:1N:329:ASN:ND2	2:4Z:210:TYR:HD2	1.54	1.02
2:1U:221:THR:HA	1:2I:324:VAL:CG1	1.88	1.02
2:1Z:207:GLU:OE1	1:2N:329:ASN:ND2	1.91	1.02
1:1A:262:TYR:CZ	2:4H:403:ALA:HA	1.93	1.02
1:1C:258:ASN:HD21	2:4P:180:THR:HG23	1.18	1.02
1:1D:348:PRO:HB2	2:4Q:394:GLN:HG2	1.37	1.02
1:1G:261:PRO:CA	2:4T:404:PHE:HA	1.89	1.02
1:1I:260:VAL:HB	2:4U:407:TRP:NE1	1.73	1.02
2:1W:101:ASN:HB2	1:2K:254:GLU:HG2	1.40	1.02
2:1X:181:VAL:HG21	1:2L:258:ASN:C	1.78	1.02
2:1Z:181:VAL:N	1:2N:258:ASN:ND2	2.05	1.02
2:2S:406:HIS:CD2	1:3F:263:PRO:CD	2.42	1.02
2:2U:406:HIS:CG	1:3I:263:PRO:HD3	1.94	1.02
2:2X:403:ALA:HB2	1:3L:262:TYR:CZ	1.93	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:353:VAL:HB	2:4O:179:ASP:OD1	1.60	1.02
1:1D:348:PRO:HG2	2:4Q:394:GLN:CB	1.89	1.02
1:1L:329:ASN:HD22	2:4X:210:TYR:HD2	1.04	1.02
2:1Y:214:PHE:CD1	1:2M:326:LYS:CE	2.41	1.02
2:1Y:221:THR:OG1	1:2M:324:VAL:CG2	2.07	1.02
2:2Q:221:THR:HG1	1:3D:324:VAL:HG21	1.08	1.02
2:2V:100:GLY:HA3	1:3J:253:THR:HG22	1.40	1.02
2:2X:11:GLN:HE22	1:3L:249:ASN:N	1.56	1.02
1:1C:253:THR:HG22	2:4P:100:GLY:HA3	1.42	1.02
1:1D:245:ASP:OD1	2:4Q:77:SER:CB	2.06	1.02
1:1D:333:ALA:HB1	2:4Q:176:LYS:HE2	1.06	1.02
1:1F:249:ASN:N	2:4S:11:GLN:OE1	1.91	1.02
1:1K:349:THR:O	2:4W:181:VAL:HA	1.59	1.02
2:1S:221:THR:OG1	1:2F:324:VAL:CG2	2.08	1.02
2:1U:404:PHE:CE2	1:2I:261:PRO:CB	2.43	1.02
2:1V:224:TYR:HD2	1:2J:247:ALA:O	1.40	1.02
2:1X:181:VAL:HB	1:2L:258:ASN:HA	1.02	1.02
2:1X:221:THR:HA	1:2L:324:VAL:CG1	1.88	1.02
2:2Y:222:PRO:HG2	1:3M:326:LYS:HB2	1.41	1.02
1:1E:346:TRP:HB2	2:4R:398:MET:HA	1.39	1.02
1:1E:348:PRO:HB2	2:4R:394:GLN:HG2	1.36	1.02
1:1F:346:TRP:CB	2:4S:397:ALA:O	2.08	1.02
2:2S:77:SER:HB3	1:3F:245:ASP:OD1	1.59	1.02
2:2V:214:PHE:HB2	1:3J:326:LYS:CE	1.89	1.02
2:2X:394:GLN:HG2	1:3L:348:PRO:HG3	1.36	1.02
2:2Y:181:VAL:HG21	1:3M:258:ASN:O	1.58	1.02
1:1C:261:PRO:CA	2:4P:404:PHE:HA	1.90	1.01
1:1D:258:ASN:ND2	2:4Q:180:THR:HG23	1.73	1.01
1:1D:260:VAL:HB	2:4Q:407:TRP:HE1	0.85	1.01
1:1F:245:ASP:OD1	2:4S:77:SER:CB	2.07	1.01
1:1G:351:PHE:O	2:4T:180:THR:CA	2.08	1.01
2:1W:404:PHE:CD1	1:2K:260:VAL:O	2.12	1.01
2:1X:179:ASP:O	1:2L:352:LYS:HD2	1.57	1.01
2:2H:214:PHE:CB	1:3A:326:LYS:HE2	1.88	1.01
1:1E:260:VAL:HB	2:4R:407:TRP:CE2	1.95	1.01
2:1V:181:VAL:HG23	1:2J:258:ASN:CB	1.89	1.01
2:1Y:224:TYR:CD2	1:2M:247:ALA:O	2.13	1.01
2:1Y:401:ARG:HB3	1:2M:262:TYR:OH	1.60	1.01
2:2T:100:GLY:HA3	1:3G:253:THR:HG22	1.42	1.01
2:2X:181:VAL:HG21	1:3L:258:ASN:O	1.60	1.01
1:1C:262:TYR:CZ	2:4P:403:ALA:HA	1.95	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:346:TRP:HB2	2:4P:397:ALA:O	1.60	1.01
2:1U:221:THR:HA	1:2I:324:VAL:HG11	1.03	1.01
2:1V:404:PHE:CE2	1:2J:261:PRO:CB	2.44	1.01
2:1V:404:PHE:CE1	1:2J:260:VAL:O	2.12	1.01
2:1Y:179:ASP:O	1:2M:352:LYS:HD2	1.61	1.01
2:2V:72:PRO:HG2	1:3J:2:ARG:HG3	1.42	1.01
1:1B:262:TYR:CZ	2:4O:403:ALA:HA	1.94	1.01
1:1E:248:LEU:HD13	5:4R:501:GDP:H8	1.14	1.01
1:1F:248:LEU:HD13	5:4S:501:GDP:C8	1.95	1.01
1:1F:262:TYR:CZ	2:4S:403:ALA:HA	1.95	1.01
2:1H:181:VAL:H	1:2A:258:ASN:ND2	1.59	1.01
2:1U:178:SER:CB	1:2I:349:THR:HB	1.88	1.01
2:1W:181:VAL:HB	1:2K:258:ASN:CA	1.89	1.01
2:1X:404:PHE:CE2	1:2L:261:PRO:HB3	1.96	1.01
2:1Z:181:VAL:HG23	1:2N:258:ASN:HB3	1.42	1.01
2:2R:178:SER:O	1:3E:351:PHE:HB2	1.61	1.01
2:2T:214:PHE:HB2	1:3G:326:LYS:CE	1.91	1.01
2:2U:214:PHE:HB2	1:3I:326:LYS:CE	1.89	1.01
2:2W:214:PHE:HB2	1:3K:326:LYS:HE2	1.01	1.01
1:1C:348:PRO:HG2	2:4P:394:GLN:HB3	1.40	1.01
1:1I:249:ASN:H	2:4U:11:GLN:NE2	1.57	1.01
1:1K:2:ARG:HD3	2:4W:72:PRO:CD	1.88	1.01
1:1K:249:ASN:H	2:4W:11:GLN:NE2	1.59	1.01
2:1W:404:PHE:CE1	1:2K:260:VAL:O	2.14	1.01
2:1Y:100:GLY:HA3	1:2M:253:THR:HG21	1.39	1.01
2:2T:72:PRO:HG2	1:3G:2:ARG:HG3	1.43	1.01
2:2Y:404:PHE:CD2	1:3M:261:PRO:HB3	1.96	1.01
1:1A:2:ARG:HG3	2:4H:72:PRO:HG2	1.42	1.00
1:1B:326:LYS:CE	2:4O:214:PHE:HB2	1.89	1.00
1:1B:346:TRP:CB	2:4O:397:ALA:O	2.08	1.00
1:1E:262:TYR:CZ	2:4R:403:ALA:HA	1.95	1.00
1:1E:326:LYS:HA	2:4R:210:TYR:CE1	1.95	1.00
1:1E:332:ILE:CG2	2:4R:177:VAL:CG2	2.39	1.00
1:1M:262:TYR:CZ	2:4Y:403:ALA:HA	1.97	1.00
2:2V:214:PHE:HB2	1:3J:326:LYS:HE2	1.03	1.00
2:2V:403:ALA:HB2	1:3J:262:TYR:CZ	1.95	1.00
1:1C:326:LYS:HB2	2:4P:222:PRO:HG2	1.42	1.00
1:1D:249:ASN:N	2:4Q:11:GLN:OE1	1.94	1.00
1:1D:346:TRP:HB2	2:4Q:398:MET:HA	1.44	1.00
1:1D:349:THR:OG1	2:4Q:184:PRO:CD	2.08	1.00
1:1F:253:THR:C	2:4S:100:GLY:HA2	1.81	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1W:181:VAL:HG21	1:2K:258:ASN:O	0.83	1.00
2:2Q:11:GLN:HE22	1:3D:249:ASN:N	1.57	1.00
2:2U:100:GLY:HA3	1:3I:253:THR:HG22	1.40	1.00
2:2V:222:PRO:HD2	1:3J:326:LYS:HB3	1.43	1.00
2:2W:100:GLY:HA3	1:3K:253:THR:HG22	1.41	1.00
2:2W:214:PHE:HB2	1:3K:326:LYS:CE	1.90	1.00
2:2Y:394:GLN:HG2	1:3M:348:PRO:HG3	1.43	1.00
1:1D:262:TYR:CZ	2:4Q:403:ALA:HA	1.95	1.00
1:1J:2:ARG:HD3	2:4V:72:PRO:HD2	1.00	1.00
1:1J:2:ARG:CD	2:4V:72:PRO:HD2	1.91	1.00
1:1N:245:ASP:OD1	2:4Z:77:SER:HB3	1.59	1.00
2:1V:181:VAL:CG2	1:2J:258:ASN:HB3	1.92	1.00
2:1W:179:ASP:O	1:2K:352:LYS:HD2	1.61	1.00
2:1W:403:ALA:HB2	1:2K:262:TYR:CZ	1.95	1.00
2:2V:221:THR:OG1	1:3J:324:VAL:CG2	2.10	1.00
1:1B:261:PRO:HB3	2:4O:404:PHE:CE2	1.95	1.00
1:1D:346:TRP:O	2:4Q:398:MET:CG	2.10	1.00
2:2H:214:PHE:HB2	1:3A:326:LYS:HE2	1.05	1.00
2:2Q:100:GLY:HA2	1:3D:253:THR:HB	1.43	1.00
1:1D:332:ILE:CG2	2:4Q:177:VAL:CG2	2.38	1.00
1:1F:262:TYR:OH	2:4S:401:ARG:O	1.78	1.00
1:1F:353:VAL:CB	2:4S:179:ASP:OD1	2.09	1.00
2:2R:77:SER:HB3	1:3E:245:ASP:OD1	1.61	1.00
2:2T:404:PHE:N	1:3G:261:PRO:O	1.93	1.00
2:2X:214:PHE:HB2	1:3L:326:LYS:CE	1.92	1.00
2:2X:214:PHE:HB2	1:3L:326:LYS:HE2	1.01	1.00
2:2X:224:TYR:OH	1:3L:248:LEU:HD22	1.62	1.00
1:1E:346:TRP:HA	2:4R:397:ALA:O	1.58	1.00
1:1E:351:PHE:O	2:4R:180:THR:CA	2.09	1.00
1:1C:333:ALA:HB1	2:4P:176:LYS:CE	1.92	1.00
1:1G:348:PRO:HG3	2:4T:394:GLN:HA	1.43	1.00
1:1I:437:VAL:O	2:4U:401:ARG:NH1	1.95	1.00
2:2P:404:PHE:N	1:3C:261:PRO:O	1.94	1.00
2:2Z:100:GLY:HA3	1:3N:253:THR:CG2	1.92	1.00
1:1C:2:ARG:HD3	2:4P:72:PRO:CD	1.91	0.99
1:1C:2:ARG:CG	2:4P:72:PRO:HD2	1.91	0.99
2:1R:181:VAL:H	1:2E:258:ASN:HD22	1.10	0.99
1:1G:2:ARG:HG3	2:4T:72:PRO:CG	1.90	0.99
1:1G:262:TYR:CZ	2:4T:403:ALA:HA	1.97	0.99
2:1U:100:GLY:CA	1:2I:253:THR:CG2	2.40	0.99
2:2U:72:PRO:HG2	1:3I:2:ARG:HG3	1.41	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:260:VAL:HB	2:4O:407:TRP:NE1	1.76	0.99
1:1F:262:TYR:N	2:4S:406:HIS:NE2	2.09	0.99
1:1N:261:PRO:HA	2:4Z:404:PHE:CD1	1.97	0.99
2:1X:224:TYR:OH	1:2L:248:LEU:HD22	1.62	0.99
2:2H:404:PHE:CG	1:3A:261:PRO:HA	1.97	0.99
2:2U:223:THR:HA	1:3I:325:PRO:HD2	1.43	0.99
2:2X:100:GLY:O	1:3L:257:THR:OG1	1.79	0.99
1:1C:253:THR:C	2:4P:100:GLY:HA2	1.83	0.99
1:1I:349:THR:HG21	2:4U:184:PRO:HD3	1.44	0.99
1:1J:249:ASN:H	2:4V:11:GLN:NE2	1.59	0.99
2:1U:181:VAL:N	1:2I:258:ASN:ND2	1.90	0.99
1:1C:332:ILE:HG22	2:4P:177:VAL:HG23	1.43	0.99
1:1F:346:TRP:CA	2:4S:397:ALA:O	2.09	0.99
1:1G:349:THR:OG1	2:4T:184:PRO:CD	2.10	0.99
2:1U:214:PHE:CE1	1:2I:326:LYS:HE3	1.95	0.99
2:2Q:222:PRO:HG2	1:3D:326:LYS:HB2	1.44	0.99
1:1E:249:ASN:N	2:4R:11:GLN:CD	2.16	0.99
1:1F:257:THR:CB	2:4S:100:GLY:O	2.10	0.99
1:1G:261:PRO:HA	2:4T:404:PHE:CA	1.90	0.99
2:1U:178:SER:HB3	1:2I:349:THR:HB	1.44	0.99
2:2O:214:PHE:CB	1:3B:326:LYS:HE2	1.92	0.99
1:1C:326:LYS:CE	2:4P:214:PHE:HB2	1.91	0.99
1:1D:257:THR:OG1	2:4Q:100:GLY:O	1.80	0.99
2:2S:406:HIS:CG	1:3F:263:PRO:HD3	1.97	0.99
1:1B:253:THR:HG22	2:4O:100:GLY:HA3	1.41	0.99
1:1C:248:LEU:HD13	5:4P:501:GDP:H8	1.27	0.99
1:1D:346:TRP:CA	2:4Q:397:ALA:O	2.10	0.99
2:1R:221:THR:OG1	1:2E:324:VAL:HG21	1.63	0.99
2:1V:181:VAL:HG21	1:2J:258:ASN:O	0.81	0.99
2:1Z:181:VAL:CG2	1:2N:258:ASN:HB3	1.92	0.99
2:2P:404:PHE:CD2	1:3C:261:PRO:HB3	1.97	0.99
2:2R:180:THR:HG23	1:3E:258:ASN:ND2	1.75	0.99
2:2Y:214:PHE:HB2	1:3M:326:LYS:HE2	1.02	0.99
1:1D:348:PRO:CG	2:4Q:394:GLN:CG	2.40	0.99
2:1Y:221:THR:CA	1:2M:324:VAL:HG11	1.91	0.99
2:2T:77:SER:HB3	1:3G:245:ASP:OD1	1.61	0.99
2:2V:403:ALA:HB2	1:3J:262:TYR:OH	1.63	0.99
2:2Y:180:THR:HG23	1:3M:258:ASN:ND2	1.75	0.99
1:1E:2:ARG:CG	2:4R:72:PRO:HD2	1.93	0.99
2:2Y:100:GLY:HA3	1:3M:253:THR:CG2	1.92	0.99
1:1E:314:ALA:HB2	2:4R:181:VAL:HG11	1.41	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:348:PRO:CG	2:4R:394:GLN:HG2	1.93	0.98
2:1Q:404:PHE:CE2	1:2D:261:PRO:HB3	1.98	0.98
2:2T:224:TYR:HE2	1:3G:248:LEU:HB2	1.25	0.98
2:2X:11:GLN:NE2	1:3L:249:ASN:H	1.60	0.98
1:1C:314:ALA:HB2	2:4P:181:VAL:HG11	1.45	0.98
1:1E:262:TYR:CA	2:4R:406:HIS:NE2	2.23	0.98
2:2S:394:GLN:HG2	1:3F:348:PRO:HG3	1.42	0.98
1:1L:349:THR:O	2:4X:181:VAL:HA	1.61	0.98
2:1X:181:VAL:CB	1:2L:258:ASN:HA	1.93	0.98
2:2V:214:PHE:CB	1:3J:326:LYS:HE2	1.92	0.98
2:2Y:404:PHE:CD1	1:3M:261:PRO:HA	1.97	0.98
1:1I:248:LEU:CA	2:4U:11:GLN:HE22	1.76	0.98
2:1W:181:VAL:CB	1:2K:258:ASN:HA	1.93	0.98
1:1D:263:PRO:CD	2:4Q:406:HIS:CD2	2.47	0.98
1:1I:248:LEU:CA	2:4U:11:GLN:NE2	2.25	0.98
2:2Y:403:ALA:HB2	1:3M:262:TYR:CZ	1.98	0.98
2:2Y:406:HIS:CD2	1:3M:263:PRO:CD	2.45	0.98
2:2S:404:PHE:CG	1:3F:261:PRO:HA	1.98	0.98
2:2W:222:PRO:HD2	1:3K:326:LYS:HB3	1.45	0.98
2:2U:178:SER:O	1:3I:351:PHE:HB2	1.64	0.98
2:2X:100:GLY:HA3	1:3L:253:THR:HG22	1.44	0.98
2:2Z:180:THR:HG23	1:3N:258:ASN:ND2	1.78	0.98
1:1C:314:ALA:CB	2:4P:181:VAL:HG11	1.94	0.98
1:1D:346:TRP:HB2	2:4Q:397:ALA:O	1.61	0.98
1:1E:348:PRO:HG2	2:4R:394:GLN:CB	1.92	0.98
1:1F:248:LEU:HD13	5:4S:501:GDP:H8	1.21	0.98
1:1G:351:PHE:CB	2:4T:178:SER:O	2.11	0.98
1:1N:258:ASN:HD21	2:4Z:180:THR:HG23	1.28	0.98
1:1D:261:PRO:CA	2:4Q:404:PHE:CA	2.38	0.98
1:1F:261:PRO:HB3	2:4S:404:PHE:CD2	1.98	0.98
1:1I:262:TYR:C	2:4U:406:HIS:NE2	2.16	0.98
1:1L:262:TYR:CA	2:4X:406:HIS:CD2	2.46	0.98
1:1M:257:THR:OG1	2:4Y:100:GLY:O	1.81	0.98
2:1X:404:PHE:CD1	1:2L:260:VAL:O	2.17	0.98
2:2S:404:PHE:N	1:3F:261:PRO:O	1.95	0.98
2:2W:224:TYR:OH	1:3K:248:LEU:HD22	1.63	0.98
2:1T:224:TYR:OH	1:2G:248:LEU:HD22	1.64	0.97
2:2Q:210:TYR:HD2	1:3D:329:ASN:HD22	1.08	0.97
2:2R:404:PHE:N	1:3E:261:PRO:O	1.96	0.97
2:2X:100:GLY:HA2	1:3L:253:THR:HB	1.41	0.97
2:2Z:181:VAL:HG21	1:3N:258:ASN:O	1.63	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Z:224:TYR:HE2	1:3N:248:LEU:HB2	1.24	0.97
1:1J:258:ASN:OD1	2:4V:101:ASN:ND2	1.96	0.97
2:1W:221:THR:OG1	1:2K:324:VAL:HG22	1.61	0.97
2:2W:404:PHE:CE2	1:3K:261:PRO:CB	2.46	0.97
1:1C:348:PRO:CG	2:4P:394:GLN:CB	2.42	0.97
2:1W:221:THR:CB	1:2K:324:VAL:HG21	1.92	0.97
2:1Y:181:VAL:HG23	1:2M:258:ASN:HB3	0.99	0.97
2:1Y:214:PHE:CD1	1:2M:326:LYS:HE2	1.98	0.97
2:2H:100:GLY:HA3	1:3A:253:THR:CG2	1.94	0.97
2:2R:176:LYS:HE2	1:3E:333:ALA:HB1	1.45	0.97
2:2R:210:TYR:HD2	1:3E:329:ASN:HD22	0.98	0.97
2:2S:214:PHE:HB2	1:3F:326:LYS:CE	1.94	0.97
2:2Z:221:THR:OG1	1:3N:324:VAL:CG2	2.12	0.97
2:1W:181:VAL:HG23	1:2K:258:ASN:HB3	0.98	0.97
1:1E:329:ASN:HB2	2:4R:210:TYR:CE2	1.98	0.97
1:1M:248:LEU:HA	2:4Y:11:GLN:NE2	1.78	0.97
2:1S:222:PRO:HD2	1:2F:326:LYS:CB	1.93	0.97
2:1T:222:PRO:HD2	1:2G:326:LYS:CB	1.94	0.97
2:2O:404:PHE:CD2	1:3B:261:PRO:HB3	2.00	0.97
2:2Q:404:PHE:N	1:3D:261:PRO:O	1.96	0.97
1:1J:248:LEU:CA	2:4V:11:GLN:HE22	1.76	0.97
1:1K:349:THR:HG21	2:4W:184:PRO:HD3	1.47	0.97
2:1V:404:PHE:CD1	1:2J:260:VAL:O	2.16	0.97
1:1C:348:PRO:HG3	2:4P:394:GLN:CA	1.94	0.97
1:1F:348:PRO:CG	2:4S:394:GLN:CB	2.43	0.97
1:1G:248:LEU:CA	2:4T:11:GLN:NE2	2.27	0.97
1:1J:349:THR:O	2:4V:181:VAL:HA	1.62	0.97
2:1T:403:ALA:HB2	1:2G:262:TYR:CZ	1.99	0.97
2:2Q:180:THR:HG23	1:3D:258:ASN:ND2	1.78	0.97
1:1A:326:LYS:CE	2:4H:214:PHE:HB2	1.94	0.97
1:1B:333:ALA:CB	2:4O:176:LYS:HE2	1.95	0.97
1:1B:348:PRO:CG	2:4O:394:GLN:CG	2.42	0.97
1:1E:326:LYS:HE2	2:4R:214:PHE:HB2	1.46	0.97
1:1F:329:ASN:HB2	2:4S:210:TYR:CE2	2.00	0.97
1:1G:326:LYS:HA	2:4T:210:TYR:CE1	2.00	0.97
1:1M:262:TYR:CA	2:4Y:406:HIS:CD2	2.46	0.97
2:1T:214:PHE:CG	1:2G:326:LYS:CE	2.44	0.97
2:2V:406:HIS:CG	1:3J:263:PRO:HD3	1.99	0.97
2:2W:403:ALA:HB2	1:3K:262:TYR:OH	1.64	0.97
1:1A:262:TYR:C	2:4H:406:HIS:NE2	2.18	0.97
2:1H:181:VAL:HG21	1:2A:258:ASN:O	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2S:72:PRO:HG2	1:3F:2:ARG:HG3	1.47	0.97
2:2V:404:PHE:CE2	1:3J:261:PRO:CB	2.48	0.97
2:2W:72:PRO:HG2	1:3K:2:ARG:HG3	1.45	0.97
2:2X:100:GLY:HA3	1:3L:253:THR:CG2	1.93	0.97
2:2Z:404:PHE:CD2	1:3N:261:PRO:HB3	1.98	0.97
1:1D:329:ASN:HB2	2:4Q:210:TYR:CE2	2.00	0.96
1:1I:346:TRP:HB2	2:4U:398:MET:HA	1.46	0.96
2:1S:221:THR:HA	1:2F:324:VAL:HG11	1.44	0.96
2:2O:207:GLU:OE1	1:3B:329:ASN:ND2	1.96	0.96
2:2U:222:PRO:HD2	1:3I:326:LYS:HB3	1.47	0.96
1:1C:245:ASP:OD1	2:4P:77:SER:CB	2.13	0.96
1:1D:2:ARG:HG3	2:4Q:72:PRO:HG2	1.44	0.96
2:2R:406:HIS:CD2	1:3E:263:PRO:CD	2.47	0.96
2:2V:176:LYS:O	1:3J:336:LYS:NZ	1.98	0.96
2:2V:223:THR:HA	1:3J:325:PRO:HD2	1.44	0.96
1:1B:249:ASN:N	2:4O:11:GLN:NE2	2.00	0.96
1:1F:324:VAL:CG1	2:4S:222:PRO:O	2.12	0.96
1:1B:329:ASN:HD22	2:4O:210:TYR:HD2	0.97	0.96
2:2H:404:PHE:CD2	1:3A:261:PRO:HB3	2.00	0.96
2:2S:100:GLY:HA3	1:3F:253:THR:HG22	1.45	0.96
1:1E:254:GLU:HG2	2:4R:101:ASN:N	1.81	0.96
1:1J:349:THR:HG21	2:4V:184:PRO:HD3	1.42	0.96
1:1M:2:ARG:HD3	2:4Y:72:PRO:CD	1.95	0.96
2:1U:221:THR:CB	1:2I:324:VAL:HG11	1.95	0.96
2:2Y:100:GLY:HA2	1:3M:253:THR:CB	1.94	0.96
1:1E:260:VAL:HB	2:4R:407:TRP:HE1	0.86	0.96
1:1G:348:PRO:HG2	2:4T:394:GLN:HB3	1.46	0.96
2:2R:11:GLN:HE22	1:3E:249:ASN:H	1.08	0.96
2:2U:210:TYR:HD2	1:3I:329:ASN:ND2	1.63	0.96
2:2X:404:PHE:CE2	1:3L:261:PRO:CB	2.48	0.96
1:1C:348:PRO:HG2	2:4P:394:GLN:CB	1.95	0.96
2:1V:221:THR:CB	1:2J:324:VAL:HG21	1.94	0.96
2:2H:100:GLY:HA2	1:3A:253:THR:CB	1.95	0.96
2:2T:223:THR:HA	1:3G:325:PRO:HD2	1.47	0.96
1:1G:332:ILE:CG2	2:4T:177:VAL:HG23	1.96	0.96
1:1L:258:ASN:OD1	2:4X:101:ASN:ND2	1.98	0.96
2:2Z:180:THR:CG2	1:3N:258:ASN:HD21	1.79	0.96
1:1K:329:ASN:HD22	2:4W:210:TYR:HD2	1.12	0.96
1:1N:262:TYR:CA	2:4Z:406:HIS:NE2	2.29	0.96
2:2O:100:GLY:HA3	1:3B:253:THR:CG2	1.96	0.96
2:2Q:176:LYS:HE2	1:3D:333:ALA:HB1	1.45	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:353:VAL:CB	2:4P:179:ASP:OD1	2.13	0.96
2:1V:221:THR:OG1	1:2J:324:VAL:HG22	1.62	0.96
2:1W:214:PHE:CE1	1:2K:326:LYS:HE3	2.00	0.96
2:2O:404:PHE:CG	1:3B:261:PRO:HA	2.01	0.96
2:2Y:224:TYR:OH	1:3M:248:LEU:HD22	1.64	0.96
1:1L:2:ARG:HD3	2:4X:72:PRO:CD	1.94	0.95
1:1N:263:PRO:CD	2:4Z:406:HIS:CD2	2.49	0.95
2:2P:180:THR:HG23	1:3C:258:ASN:ND2	1.80	0.95
2:2S:11:GLN:HE22	1:3F:249:ASN:H	0.98	0.95
2:2X:180:THR:CG2	1:3L:258:ASN:HD21	1.79	0.95
1:1A:332:ILE:CG2	2:4H:177:VAL:HG23	1.94	0.95
1:1I:249:ASN:N	2:4U:11:GLN:NE2	2.11	0.95
2:1W:214:PHE:HB2	1:2K:326:LYS:HE2	1.45	0.95
2:2O:180:THR:HG23	1:3B:258:ASN:ND2	1.81	0.95
2:2U:403:ALA:HB2	1:3I:262:TYR:CZ	2.01	0.95
2:1Q:181:VAL:HG21	1:2D:258:ASN:O	1.65	0.95
2:1R:178:SER:CB	1:2E:349:THR:HB	1.95	0.95
2:1W:222:PRO:O	1:2K:325:PRO:HD2	1.64	0.95
2:1X:181:VAL:CG2	1:2L:258:ASN:CB	2.40	0.95
2:1X:224:TYR:HD2	1:2L:247:ALA:O	1.41	0.95
2:2Y:180:THR:CG2	1:3M:258:ASN:HD21	1.78	0.95
2:2Z:100:GLY:HA2	1:3N:253:THR:CB	1.94	0.95
1:1F:346:TRP:O	2:4S:398:MET:CA	2.12	0.95
2:1V:404:PHE:CE2	1:2J:261:PRO:CA	2.49	0.95
2:1Y:100:GLY:CA	1:2M:253:THR:CG2	2.45	0.95
2:1Z:221:THR:OG1	1:2N:324:VAL:HG21	1.66	0.95
2:2W:100:GLY:HA3	1:3K:253:THR:CG2	1.96	0.95
1:1C:346:TRP:HB2	2:4P:398:MET:HA	1.49	0.95
1:1I:262:TYR:CZ	2:4U:403:ALA:HA	2.01	0.95
2:1Y:181:VAL:CG2	1:2M:258:ASN:CB	2.43	0.95
2:2P:176:LYS:HE2	1:3C:333:ALA:HB1	1.48	0.95
2:2P:207:GLU:OE1	1:3C:329:ASN:ND2	1.98	0.95
1:1E:263:PRO:HD3	2:4R:406:HIS:CD2	2.01	0.95
1:1L:346:TRP:CH2	2:4X:404:PHE:CE2	2.54	0.95
2:2H:224:TYR:HE2	1:3A:248:LEU:HB2	1.30	0.95
1:1C:332:ILE:CG2	2:4P:177:VAL:CG2	2.44	0.95
1:1F:314:ALA:CB	2:4S:181:VAL:HG11	1.96	0.95
1:1F:348:PRO:HB2	2:4S:394:GLN:HG2	1.46	0.95
2:2Y:11:GLN:HE22	1:3M:249:ASN:N	1.64	0.95
1:1A:329:ASN:ND2	2:4H:210:TYR:HD2	1.65	0.95
1:1E:2:ARG:CD	2:4R:72:PRO:CD	2.32	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1N:2:ARG:HD3	2:4Z:72:PRO:HD2	1.47	0.95
1:1N:346:TRP:O	2:4Z:398:MET:CG	2.14	0.95
2:2Z:406:HIS:CD2	1:3N:263:PRO:CD	2.50	0.95
1:1D:254:GLU:HG2	2:4Q:101:ASN:N	1.81	0.95
1:1N:257:THR:CB	2:4Z:100:GLY:O	2.14	0.95
2:1T:221:THR:CB	1:2G:324:VAL:HG11	1.95	0.95
2:2H:180:THR:HG23	1:3A:258:ASN:ND2	1.80	0.95
2:2H:221:THR:HG1	1:3A:324:VAL:HG21	1.31	0.95
2:2Q:11:GLN:NE2	1:3D:249:ASN:H	1.63	0.95
1:1C:324:VAL:CG1	2:4P:222:PRO:O	2.15	0.95
1:1I:260:VAL:HB	2:4U:407:TRP:CZ2	2.01	0.95
2:2P:214:PHE:CB	1:3C:326:LYS:HE2	1.97	0.95
2:2R:394:GLN:HG2	1:3E:348:PRO:HG3	1.48	0.95
2:2Z:394:GLN:HG2	1:3N:348:PRO:HG3	1.48	0.95
1:1K:258:ASN:OD1	2:4W:101:ASN:ND2	2.00	0.94
2:1T:404:PHE:CE2	1:2G:261:PRO:CB	2.49	0.94
2:1U:100:GLY:HA2	1:2I:253:THR:HB	1.49	0.94
2:2S:224:TYR:HE2	1:3F:248:LEU:HB2	1.31	0.94
1:1D:2:ARG:CG	2:4Q:72:PRO:CD	2.45	0.94
1:1M:346:TRP:CH2	2:4Y:404:PHE:CE2	2.55	0.94
2:1X:100:GLY:CA	1:2L:253:THR:HG21	1.93	0.94
2:1Z:214:PHE:HB2	1:2N:326:LYS:HE2	1.46	0.94
2:2U:403:ALA:HB2	1:3I:262:TYR:OH	1.67	0.94
2:2W:176:LYS:O	1:3K:336:LYS:NZ	2.00	0.94
2:2U:214:PHE:CB	1:3I:326:LYS:HE2	1.97	0.94
1:1A:348:PRO:HG3	2:4H:394:GLN:HG2	1.48	0.94
1:1B:260:VAL:CB	2:4O:407:TRP:HE1	1.80	0.94
1:1D:263:PRO:CD	2:4Q:406:HIS:CG	2.50	0.94
2:2H:180:THR:CG2	1:3A:258:ASN:HD21	1.80	0.94
2:2V:404:PHE:CD1	1:3J:261:PRO:CA	2.49	0.94
2:2W:180:THR:CG2	1:3K:258:ASN:HD21	1.81	0.94
1:1F:260:VAL:CB	2:4S:407:TRP:NE1	2.17	0.94
1:1F:314:ALA:HB2	2:4S:181:VAL:HG11	1.49	0.94
1:1J:261:PRO:O	2:4V:406:HIS:CD2	2.20	0.94
1:1M:329:ASN:ND2	2:4Y:210:TYR:HD2	1.65	0.94
2:2R:404:PHE:CG	1:3E:261:PRO:HA	2.02	0.94
1:1F:249:ASN:N	2:4S:11:GLN:CD	2.19	0.94
1:1L:262:TYR:N	2:4X:406:HIS:NE2	2.15	0.94
2:1R:214:PHE:CD1	1:2E:326:LYS:CE	2.50	0.94
1:1D:333:ALA:HB1	2:4Q:176:LYS:CE	1.96	0.94
1:1G:257:THR:HB	2:4T:100:GLY:O	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1K:346:TRP:CH2	2:4W:404:PHE:CE2	2.55	0.94
2:1U:100:GLY:HA2	1:2I:253:THR:CB	1.97	0.94
2:1V:214:PHE:HB2	1:2J:326:LYS:HE2	1.46	0.94
2:2R:100:GLY:O	1:3E:257:THR:OG1	1.83	0.94
2:2U:77:SER:HB3	1:3I:245:ASP:OD1	1.67	0.94
2:2V:224:TYR:OH	1:3J:248:LEU:HD22	1.68	0.94
2:2Y:214:PHE:HB2	1:3M:326:LYS:CE	1.95	0.94
1:1B:261:PRO:O	2:4O:404:PHE:N	2.01	0.94
1:1G:262:TYR:HA	2:4T:406:HIS:HD2	1.16	0.94
1:1G:351:PHE:O	2:4T:180:THR:N	1.99	0.94
1:1J:248:LEU:CA	2:4V:11:GLN:NE2	2.29	0.94
1:1M:349:THR:O	2:4Y:181:VAL:HA	1.67	0.94
2:2H:207:GLU:OE1	1:3A:329:ASN:ND2	2.00	0.94
2:2R:214:PHE:HB2	1:3E:326:LYS:CE	1.97	0.94
2:2S:72:PRO:HD2	1:3F:2:ARG:HD3	1.49	0.94
2:2W:101:ASN:O	1:3K:257:THR:HG21	1.67	0.94
1:1I:247:ALA:O	2:4U:15:GLN:NE2	2.01	0.94
2:1X:100:GLY:HA3	1:2L:253:THR:CG2	1.96	0.94
2:2R:100:GLY:HA2	1:3E:253:THR:HB	1.50	0.94
1:1A:253:THR:HG22	2:4H:100:GLY:HA3	1.50	0.94
1:1E:263:PRO:CD	2:4R:406:HIS:CG	2.51	0.94
2:2Q:178:SER:O	1:3D:351:PHE:HB2	1.68	0.94
1:1G:248:LEU:C	2:4T:11:GLN:HE22	1.70	0.93
2:1T:222:PRO:HD2	1:2G:326:LYS:HB2	1.49	0.93
2:1U:404:PHE:CD2	1:2I:261:PRO:HA	2.03	0.93
2:1X:401:ARG:HB3	1:2L:262:TYR:OH	1.66	0.93
2:1Z:100:GLY:HA2	1:2N:253:THR:CB	1.97	0.93
2:2V:210:TYR:HD2	1:3J:329:ASN:ND2	1.66	0.93
2:2P:11:GLN:HE22	1:3C:249:ASN:N	1.65	0.93
1:1A:325:PRO:HD2	2:4H:223:THR:HA	1.49	0.93
1:1C:260:VAL:O	2:4P:407:TRP:CD1	2.21	0.93
1:1E:333:ALA:CB	2:4R:176:LYS:HE2	1.97	0.93
1:1G:346:TRP:O	2:4T:398:MET:CA	2.16	0.93
2:1W:404:PHE:CE2	1:2K:261:PRO:CB	2.51	0.93
2:2R:72:PRO:HD2	1:3E:2:ARG:HD3	1.50	0.93
2:2S:176:LYS:HE2	1:3F:333:ALA:HB1	1.47	0.93
2:2T:210:TYR:HD2	1:3G:329:ASN:ND2	1.66	0.93
2:2U:404:PHE:CD1	1:3I:261:PRO:CA	2.51	0.93
1:1J:260:VAL:HB	2:4V:407:TRP:CZ2	2.03	0.93
2:2S:404:PHE:CD1	1:3F:261:PRO:HA	2.02	0.93
1:1A:261:PRO:HA	2:4H:404:PHE:CD1	2.04	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:346:TRP:O	2:4H:398:MET:HG2	1.68	0.93
2:1W:404:PHE:CE2	1:2K:261:PRO:CA	2.52	0.93
2:1Y:214:PHE:HB2	1:2M:326:LYS:HE2	1.51	0.93
2:2P:100:GLY:HA3	1:3C:253:THR:CG2	1.99	0.93
2:2Q:77:SER:HB3	1:3D:245:ASP:OD1	1.68	0.93
2:2V:101:ASN:O	1:3J:257:THR:HG21	1.67	0.93
2:2W:181:VAL:HG21	1:3K:258:ASN:O	1.66	0.93
2:2Y:100:GLY:HA3	1:3M:253:THR:HG22	1.47	0.93
1:1E:346:TRP:O	2:4R:398:MET:HG2	1.67	0.93
2:1U:404:PHE:CE1	1:2I:260:VAL:O	2.21	0.93
2:2P:404:PHE:CG	1:3C:261:PRO:HA	2.04	0.93
2:2V:222:PRO:CG	1:3J:326:LYS:HB2	1.99	0.93
2:2X:100:GLY:HA2	1:3L:253:THR:CB	1.97	0.93
2:2Z:222:PRO:HG2	1:3N:326:LYS:HB2	1.46	0.93
1:1A:351:PHE:CB	2:4H:178:SER:O	2.16	0.93
1:1B:351:PHE:O	2:4O:180:THR:N	2.02	0.93
2:1V:178:SER:HB3	1:2J:349:THR:HB	1.49	0.93
2:2U:176:LYS:O	1:3I:336:LYS:NZ	2.01	0.93
2:2X:224:TYR:CE2	1:3L:248:LEU:HB2	2.03	0.93
1:1B:348:PRO:HG3	2:4O:394:GLN:HA	1.51	0.93
2:1T:100:GLY:HA2	1:2G:253:THR:CG2	1.98	0.93
2:1V:222:PRO:O	1:2J:325:PRO:HD2	1.67	0.93
2:2W:100:GLY:HA2	1:3K:253:THR:HB	1.49	0.93
1:1C:261:PRO:O	2:4P:404:PHE:N	2.02	0.93
1:1E:257:THR:OG1	2:4R:100:GLY:O	1.85	0.93
1:1F:248:LEU:C	2:4S:11:GLN:HE22	1.72	0.93
1:1G:348:PRO:HG3	2:4T:394:GLN:CA	1.99	0.93
1:1N:326:LYS:CB	2:4Z:222:PRO:HG2	1.99	0.93
2:1U:181:VAL:HG21	1:2I:258:ASN:C	1.87	0.93
2:2Q:404:PHE:CG	1:3D:261:PRO:HA	2.04	0.93
2:2Z:403:ALA:HB2	1:3N:262:TYR:CZ	2.04	0.93
1:1E:2:ARG:CG	2:4R:72:PRO:CD	2.47	0.92
2:1U:214:PHE:HB2	1:2I:326:LYS:HE2	1.50	0.92
1:1A:261:PRO:HA	2:4H:404:PHE:HA	1.48	0.92
1:1B:333:ALA:HB1	2:4O:176:LYS:CE	1.99	0.92
1:1C:329:ASN:HD22	2:4P:210:TYR:HD2	1.11	0.92
1:1E:257:THR:CB	2:4R:100:GLY:O	2.17	0.92
1:1E:348:PRO:HG3	2:4R:394:GLN:CB	1.99	0.92
1:1G:247:ALA:O	2:4T:15:GLN:NE2	2.02	0.92
2:2X:210:TYR:HD2	1:3L:329:ASN:HD22	1.01	0.92
1:1C:261:PRO:CA	2:4P:404:PHE:CA	2.47	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:262:TYR:HA	2:4P:406:HIS:HD2	1.24	0.92
1:1E:258:ASN:ND2	2:4R:180:THR:HG23	1.85	0.92
2:2O:224:TYR:HE2	1:3B:248:LEU:HB2	1.34	0.92
2:2P:222:PRO:HG2	1:3C:326:LYS:HB2	1.50	0.92
1:1D:326:LYS:HA	2:4Q:210:TYR:CE1	2.05	0.92
2:1U:100:GLY:CA	1:2I:253:THR:HG21	2.00	0.92
2:1X:214:PHE:HB2	1:2L:326:LYS:HE2	1.47	0.92
2:1X:221:THR:CB	1:2L:324:VAL:HG21	1.99	0.92
2:2V:100:GLY:HA3	1:3J:253:THR:CG2	1.99	0.92
2:2W:100:GLY:CA	1:3K:253:THR:HG22	1.98	0.92
1:1B:332:ILE:HG22	2:4O:177:VAL:HG23	1.51	0.92
1:1C:346:TRP:O	2:4P:398:MET:CG	2.17	0.92
1:1D:2:ARG:HD3	2:4Q:72:PRO:HD2	0.93	0.92
1:1D:262:TYR:HA	2:4Q:406:HIS:HD2	1.12	0.92
1:1E:2:ARG:CG	2:4R:72:PRO:CG	2.46	0.92
1:1F:332:ILE:CG2	2:4S:177:VAL:CG2	2.47	0.92
1:1J:249:ASN:H	2:4V:11:GLN:CD	1.73	0.92
1:1M:263:PRO:HD3	2:4Y:406:HIS:CD2	2.04	0.92
1:1D:2:ARG:CD	2:4Q:72:PRO:CD	2.40	0.92
1:1G:332:ILE:HG22	2:4T:177:VAL:HG23	1.49	0.92
1:1K:248:LEU:CA	2:4W:11:GLN:HE22	1.80	0.92
1:1M:325:PRO:HD2	2:4Y:223:THR:HA	1.52	0.92
2:2W:404:PHE:CD1	1:3K:261:PRO:CA	2.52	0.92
1:1D:253:THR:HG22	2:4Q:100:GLY:HA3	1.49	0.92
1:1E:332:ILE:HB	2:4R:177:VAL:CG2	2.00	0.92
1:1N:2:ARG:HG3	2:4Z:72:PRO:HG2	1.51	0.92
2:2H:181:VAL:HG21	1:3A:258:ASN:O	1.70	0.92
2:2R:406:HIS:CG	1:3E:263:PRO:HD3	2.05	0.92
2:2U:221:THR:HG1	1:3I:324:VAL:HG21	1.25	0.92
2:2X:11:GLN:HE22	1:3L:249:ASN:H	1.00	0.92
1:1E:261:PRO:CB	2:4R:404:PHE:H	1.82	0.92
1:1G:245:ASP:OD1	2:4T:77:SER:CB	2.15	0.92
1:1J:346:TRP:CH2	2:4V:404:PHE:CE2	2.57	0.92
2:1W:404:PHE:N	1:2K:261:PRO:O	2.01	0.92
1:1D:261:PRO:CA	2:4Q:404:PHE:H	1.82	0.92
1:1L:262:TYR:CZ	2:4X:403:ALA:HA	2.04	0.92
2:1P:404:PHE:CE2	1:2C:261:PRO:HB3	2.05	0.92
2:1V:224:TYR:CE2	1:2J:248:LEU:HB2	2.04	0.92
2:1X:221:THR:OG1	1:2L:324:VAL:HG22	1.70	0.92
2:2R:224:TYR:HE2	1:3E:248:LEU:HB2	1.35	0.92
2:2U:101:ASN:O	1:3I:257:THR:HG21	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Y:11:GLN:NE2	1:3M:249:ASN:H	1.68	0.92
1:1C:329:ASN:HB2	2:4P:210:TYR:CE2	2.05	0.92
1:1G:248:LEU:CA	2:4T:11:GLN:HE22	1.83	0.92
1:1G:329:ASN:HB2	2:4T:210:TYR:CE2	2.04	0.92
2:1U:404:PHE:CZ	1:2I:261:PRO:CA	2.52	0.92
2:1W:224:TYR:CE2	1:2K:248:LEU:HB2	2.05	0.92
2:2O:100:GLY:HA2	1:3B:253:THR:CB	1.99	0.92
2:2V:100:GLY:CA	1:3J:253:THR:HG22	1.99	0.92
2:2Z:11:GLN:HE22	1:3N:249:ASN:N	1.68	0.92
1:1E:260:VAL:CB	2:4R:407:TRP:NE1	2.14	0.91
1:1F:2:ARG:CG	2:4S:72:PRO:CG	2.48	0.91
1:1K:346:TRP:CZ3	2:4W:404:PHE:CE2	2.58	0.91
1:1M:329:ASN:HD22	2:4Y:210:TYR:HD2	0.94	0.91
1:1M:346:TRP:HB2	2:4Y:398:MET:HA	1.51	0.91
2:1S:222:PRO:HD2	1:2F:326:LYS:HB2	1.52	0.91
2:1T:178:SER:HB3	1:2G:349:THR:HB	1.49	0.91
2:1U:406:HIS:CD2	1:2I:263:PRO:HD3	2.05	0.91
2:1X:221:THR:HA	1:2L:324:VAL:HG11	0.94	0.91
1:1D:2:ARG:CG	2:4Q:72:PRO:CG	2.48	0.91
1:1K:261:PRO:HA	2:4W:404:PHE:HA	1.52	0.91
2:1R:181:VAL:H	1:2E:258:ASN:ND2	1.66	0.91
2:1U:221:THR:CA	1:2I:324:VAL:CG1	2.46	0.91
2:2Q:214:PHE:HB2	1:3D:326:LYS:CE	1.99	0.91
2:2T:176:LYS:HE2	1:3G:333:ALA:HB1	1.52	0.91
1:1A:2:ARG:HG3	2:4H:72:PRO:CG	1.99	0.91
1:1A:326:LYS:CB	2:4H:222:PRO:HG2	2.01	0.91
1:1C:263:PRO:CD	2:4P:406:HIS:CG	2.52	0.91
1:1M:326:LYS:HB2	2:4Y:222:PRO:HG2	1.49	0.91
2:2H:222:PRO:HG2	1:3A:326:LYS:HB2	1.51	0.91
2:2O:180:THR:CG2	1:3B:258:ASN:HD21	1.82	0.91
2:2Q:406:HIS:CD2	1:3D:263:PRO:CD	2.52	0.91
2:2R:100:GLY:HA3	1:3E:253:THR:HG22	1.48	0.91
2:2W:222:PRO:CG	1:3K:326:LYS:HB2	2.00	0.91
1:1B:262:TYR:CA	2:4O:406:HIS:CD2	2.54	0.91
1:1D:326:LYS:CE	2:4Q:214:PHE:HB2	2.00	0.91
1:1D:326:LYS:HB2	2:4Q:222:PRO:HG2	1.51	0.91
1:1F:257:THR:OG1	2:4S:100:GLY:O	1.89	0.91
1:1I:257:THR:HB	2:4U:100:GLY:O	1.68	0.91
2:1V:404:PHE:CG	1:2J:261:PRO:HA	2.04	0.91
2:1X:100:GLY:HA2	1:2L:253:THR:CG2	1.96	0.91
2:2X:403:ALA:HB2	1:3L:262:TYR:OH	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Y:11:GLN:HE22	1:3M:249:ASN:H	1.11	0.91
2:2Y:100:GLY:O	1:3M:257:THR:OG1	1.88	0.91
2:2Z:224:TYR:OH	1:3N:248:LEU:HD22	1.70	0.91
1:1C:348:PRO:HB2	2:4P:394:GLN:HG2	1.49	0.91
1:1D:437:VAL:O	2:4Q:401:ARG:NH1	2.02	0.91
1:1I:351:PHE:O	2:4U:180:THR:CA	2.18	0.91
1:1J:260:VAL:HB	2:4V:407:TRP:CE2	2.06	0.91
2:1T:406:HIS:CD2	1:2G:263:PRO:HD3	2.05	0.91
2:1Y:214:PHE:CD1	1:2M:326:LYS:HE3	2.04	0.91
2:2X:221:THR:HG1	1:3L:324:VAL:HG21	1.19	0.91
2:2Y:100:GLY:CA	1:3M:253:THR:CG2	2.47	0.91
1:1F:261:PRO:HB3	2:4S:404:PHE:CG	2.06	0.91
2:2Q:100:GLY:HA3	1:3D:253:THR:HG22	1.51	0.91
2:2X:100:GLY:CA	1:3L:253:THR:CG2	2.47	0.91
1:1A:249:ASN:H	2:4H:11:GLN:CD	1.72	0.91
1:1I:248:LEU:C	2:4U:11:GLN:HE22	1.73	0.91
1:1I:261:PRO:O	2:4U:406:HIS:CD2	2.24	0.91
1:1K:261:PRO:O	2:4W:406:HIS:CD2	2.24	0.91
2:1H:101:ASN:HB2	1:2A:254:GLU:HG2	1.52	0.91
2:2Q:207:GLU:OE1	1:3D:329:ASN:ND2	2.04	0.91
2:2X:100:GLY:CA	1:3L:253:THR:HG22	1.99	0.91
1:1B:348:PRO:HG3	2:4O:394:GLN:HG2	1.51	0.91
1:1D:324:VAL:HG21	2:4Q:221:THR:OG1	1.71	0.91
1:1E:261:PRO:CA	2:4R:404:PHE:CA	2.38	0.91
1:1E:346:TRP:O	2:4R:398:MET:CA	2.18	0.91
1:1J:262:TYR:CZ	2:4V:403:ALA:HA	2.05	0.91
2:1X:403:ALA:HB2	1:2L:262:TYR:CZ	2.05	0.91
2:2Z:214:PHE:HB2	1:3N:326:LYS:CE	1.98	0.91
1:1A:346:TRP:O	2:4H:398:MET:CG	2.19	0.91
1:1F:2:ARG:HG3	2:4S:72:PRO:HG3	1.53	0.91
2:2Z:100:GLY:HA3	1:3N:253:THR:HG22	1.50	0.91
1:1M:261:PRO:HA	2:4Y:404:PHE:HA	1.52	0.91
2:1O:181:VAL:HG21	1:2B:258:ASN:O	1.71	0.91
2:1Q:221:THR:OG1	1:2D:324:VAL:HG21	1.70	0.91
2:1V:404:PHE:CE2	1:2J:261:PRO:HA	2.03	0.91
2:1W:404:PHE:CG	1:2K:261:PRO:HA	2.06	0.91
2:1Y:404:PHE:CE1	1:2M:260:VAL:C	2.44	0.91
2:1Y:404:PHE:CE2	1:2M:261:PRO:HB3	2.06	0.91
1:1E:261:PRO:HB3	2:4R:404:PHE:CG	2.05	0.90
1:1F:348:PRO:CG	2:4S:394:GLN:HB3	2.00	0.90
1:1L:346:TRP:CZ3	2:4X:404:PHE:CE2	2.58	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1S:214:PHE:CG	1:2F:326:LYS:HE2	2.06	0.90
2:1X:222:PRO:O	1:2L:325:PRO:HD2	1.70	0.90
2:1X:404:PHE:N	1:2L:261:PRO:O	2.02	0.90
2:1Z:181:VAL:N	1:2N:258:ASN:HD22	1.66	0.90
1:1D:263:PRO:N	2:4Q:406:HIS:CD2	2.39	0.90
2:2Q:214:PHE:CB	1:3D:326:LYS:HE2	2.00	0.90
2:2U:222:PRO:CG	1:3I:326:LYS:HB2	2.01	0.90
1:1D:332:ILE:HG21	2:4Q:177:VAL:CG2	2.02	0.90
1:1D:346:TRP:HA	2:4Q:397:ALA:O	1.71	0.90
1:1E:262:TYR:HA	2:4R:406:HIS:HD2	1.05	0.90
1:1F:248:LEU:CA	2:4S:11:GLN:NE2	2.34	0.90
1:1G:249:ASN:N	2:4T:11:GLN:OE1	2.03	0.90
1:1I:260:VAL:C	2:4U:407:TRP:HE1	1.73	0.90
1:1J:247:ALA:O	2:4V:15:GLN:NE2	2.04	0.90
2:2X:222:PRO:HD2	1:3L:326:LYS:HB3	1.52	0.90
1:1D:262:TYR:C	2:4Q:406:HIS:CD2	2.45	0.90
1:1E:348:PRO:CG	2:4R:394:GLN:HB3	2.00	0.90
2:2O:11:GLN:HE22	1:3B:249:ASN:N	1.69	0.90
2:2W:221:THR:HG1	1:3K:324:VAL:HG21	1.17	0.90
2:2X:72:PRO:HG2	1:3L:2:ARG:HG3	1.51	0.90
1:1C:262:TYR:CZ	2:4P:403:ALA:CA	2.55	0.90
2:1X:181:VAL:HG23	1:2L:258:ASN:HB3	0.93	0.90
2:2H:221:THR:OG1	1:3A:324:VAL:CG2	2.19	0.90
2:2H:406:HIS:CD2	1:3A:263:PRO:CD	2.54	0.90
2:2P:224:TYR:HE2	1:3C:248:LEU:HB2	1.37	0.90
1:1D:261:PRO:HA	2:4Q:404:PHE:HA	0.93	0.90
1:1E:260:VAL:HG12	2:4R:406:HIS:CE1	2.07	0.90
1:1G:348:PRO:CB	2:4T:394:GLN:HG2	2.01	0.90
2:1P:181:VAL:HG21	1:2C:258:ASN:O	1.72	0.90
2:2O:100:GLY:HA3	1:3B:253:THR:HG22	1.53	0.90
2:2W:224:TYR:CE2	1:3K:248:LEU:HB2	2.04	0.90
1:1B:261:PRO:HA	2:4O:404:PHE:CG	2.07	0.90
1:1E:2:ARG:HG3	2:4R:72:PRO:HG2	1.51	0.90
1:1F:349:THR:CB	2:4S:184:PRO:HD3	2.02	0.90
2:1Z:101:ASN:HB2	1:2N:254:GLU:CG	2.02	0.90
2:2O:176:LYS:HE2	1:3B:333:ALA:HB1	1.54	0.90
2:2O:214:PHE:HB2	1:3B:326:LYS:CE	2.01	0.90
2:2W:100:GLY:CA	1:3K:253:THR:CG2	2.49	0.90
1:1D:258:ASN:HD21	2:4Q:180:THR:HG23	1.32	0.90
1:1K:262:TYR:CZ	2:4W:403:ALA:HA	2.07	0.90
1:1M:262:TYR:HA	2:4Y:406:HIS:NE2	1.81	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1H:221:THR:OG1	1:2A:324:VAL:HG21	1.71	0.90
2:1V:178:SER:CB	1:2J:349:THR:HB	2.02	0.90
2:2Q:224:TYR:HE2	1:3D:248:LEU:HB2	1.37	0.90
2:2Z:404:PHE:CD1	1:3N:261:PRO:HA	2.05	0.90
1:1G:248:LEU:HD13	5:4T:501:GDP:H8	1.35	0.90
1:1I:262:TYR:HA	2:4U:406:HIS:HD2	1.30	0.90
1:1N:348:PRO:CG	2:4Z:394:GLN:HG2	2.02	0.90
2:1S:181:VAL:H	1:2F:258:ASN:HD22	0.90	0.90
2:2W:100:GLY:HA2	1:3K:253:THR:CB	2.02	0.90
1:1C:329:ASN:ND2	2:4P:207:GLU:OE1	2.04	0.90
1:1E:348:PRO:CG	2:4R:394:GLN:CG	2.49	0.90
1:1G:349:THR:HG21	2:4T:184:PRO:HD3	1.54	0.90
2:1T:181:VAL:N	1:2G:258:ASN:ND2	2.11	0.90
2:1Z:100:GLY:CA	1:2N:253:THR:HB	2.02	0.90
2:2U:221:THR:OG1	1:3I:324:VAL:CG2	2.17	0.90
2:2X:214:PHE:CD1	1:3L:326:LYS:HE3	2.06	0.90
2:2Y:224:TYR:CE2	1:3M:248:LEU:HB2	2.06	0.90
1:1D:324:VAL:HG13	2:4Q:222:PRO:O	1.70	0.89
1:1E:254:GLU:N	2:4R:100:GLY:HA2	1.86	0.89
1:1N:262:TYR:C	2:4Z:406:HIS:NE2	2.26	0.89
2:1R:222:PRO:HD2	1:2E:326:LYS:CB	2.00	0.89
2:1T:214:PHE:CB	1:2G:326:LYS:HE2	2.02	0.89
2:1W:404:PHE:CE2	1:2K:261:PRO:HA	2.07	0.89
2:1X:182:VAL:HG21	1:2L:257:THR:CG2	2.02	0.89
2:2X:101:ASN:O	1:3L:257:THR:HG21	1.70	0.89
1:1A:248:LEU:HD13	5:4H:501:GDP:C8	2.08	0.89
1:1B:346:TRP:HB2	2:4O:398:MET:HA	1.54	0.89
1:1D:248:LEU:HD13	5:4Q:501:GDP:H8	1.17	0.89
2:2W:406:HIS:CG	1:3K:263:PRO:HD3	2.07	0.89
1:1F:263:PRO:CD	2:4S:406:HIS:CG	2.55	0.89
2:1U:224:TYR:HD2	1:2I:247:ALA:O	1.54	0.89
2:1Y:100:GLY:HA3	1:2M:253:THR:CG2	2.02	0.89
2:2R:72:PRO:HG2	1:3E:2:ARG:HG3	1.53	0.89
2:2V:178:SER:O	1:3J:351:PHE:HB2	1.72	0.89
2:2V:404:PHE:CZ	1:3J:261:PRO:HB3	2.07	0.89
1:1A:248:LEU:HB2	2:4H:224:TYR:HE2	1.37	0.89
1:1C:332:ILE:HG21	2:4P:177:VAL:CG2	2.02	0.89
2:2O:222:PRO:HG2	1:3B:326:LYS:HB2	1.52	0.89
1:1D:1:MET:O	2:4Q:96:GLN:OE1	1.91	0.89
1:1E:260:VAL:O	2:4R:407:TRP:NE1	2.06	0.89
2:2V:180:THR:CG2	1:3J:258:ASN:HD21	1.83	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2V:221:THR:HG1	1:3J:324:VAL:HG21	1.08	0.89
2:2W:223:THR:HA	1:3K:325:PRO:HD2	1.51	0.89
1:1D:351:PHE:O	2:4Q:180:THR:CA	2.20	0.89
1:1M:262:TYR:C	2:4Y:406:HIS:NE2	2.26	0.89
2:1U:404:PHE:CE2	1:2I:261:PRO:CA	2.56	0.89
2:1U:404:PHE:CG	1:2I:261:PRO:HA	2.08	0.89
2:2Q:100:GLY:HA3	1:3D:253:THR:CG2	2.02	0.89
2:2Y:210:TYR:HD2	1:3M:329:ASN:HD22	1.11	0.89
1:1B:262:TYR:CZ	2:4O:403:ALA:CA	2.54	0.89
1:1B:262:TYR:OH	2:4O:401:ARG:O	1.90	0.89
1:1I:346:TRP:HA	2:4U:397:ALA:O	1.72	0.89
1:1L:262:TYR:HA	2:4X:406:HIS:NE2	1.80	0.89
2:1U:222:PRO:HD2	1:2I:326:LYS:CB	2.02	0.89
2:2Q:394:GLN:HG2	1:3D:348:PRO:HG3	1.53	0.89
2:2Z:210:TYR:HD2	1:3N:329:ASN:HD22	1.16	0.89
1:1E:262:TYR:CE2	2:4R:403:ALA:HA	2.07	0.89
1:1J:262:TYR:C	2:4V:406:HIS:NE2	2.26	0.89
2:1S:178:SER:HB2	1:2F:349:THR:HB	1.53	0.89
2:2O:406:HIS:CD2	1:3B:263:PRO:CD	2.56	0.89
2:2P:180:THR:CG2	1:3C:258:ASN:HD21	1.85	0.89
2:2U:100:GLY:HA3	1:3I:253:THR:CG2	2.02	0.89
2:2U:404:PHE:CE2	1:3I:261:PRO:CB	2.54	0.89
1:1B:263:PRO:N	2:4O:406:HIS:NE2	2.20	0.89
1:1G:333:ALA:HB1	2:4T:176:LYS:HE2	1.53	0.89
1:1N:348:PRO:HG3	2:4Z:394:GLN:HG2	1.55	0.89
2:1T:214:PHE:HB2	1:2G:326:LYS:HE2	1.55	0.89
2:2W:214:PHE:CD1	1:3K:326:LYS:HE3	2.07	0.89
1:1D:348:PRO:HG3	2:4Q:394:GLN:CB	2.01	0.89
1:1J:257:THR:HB	2:4V:100:GLY:O	1.73	0.89
1:1J:346:TRP:HB2	2:4V:398:MET:HA	1.53	0.89
2:1T:181:VAL:HG23	1:2G:258:ASN:HB3	1.54	0.89
2:1Z:181:VAL:HB	1:2N:258:ASN:HA	1.55	0.89
2:2P:406:HIS:CD2	1:3C:263:PRO:CD	2.56	0.89
2:2T:101:ASN:O	1:3G:257:THR:HG21	1.72	0.89
1:1E:351:PHE:HD2	2:4R:178:SER:HG	1.20	0.88
1:1G:260:VAL:HB	2:4T:407:TRP:CZ2	2.08	0.88
2:1H:214:PHE:HB2	1:2A:326:LYS:HE2	1.52	0.88
1:1A:262:TYR:CZ	2:4H:403:ALA:CA	2.57	0.88
1:1C:349:THR:OG1	2:4P:184:PRO:CD	2.20	0.88
2:1V:181:VAL:CB	1:2J:258:ASN:HA	2.02	0.88
2:1X:404:PHE:CE1	1:2L:260:VAL:O	2.26	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2H:100:GLY:HA3	1:3A:253:THR:HG22	1.52	0.88
2:2V:403:ALA:CB	1:3J:262:TYR:CZ	2.56	0.88
2:2W:210:TYR:HD2	1:3K:329:ASN:HD22	0.90	0.88
1:1D:261:PRO:HB3	2:4Q:404:PHE:CG	2.08	0.88
1:1I:2:ARG:HG3	2:4U:72:PRO:CG	2.03	0.88
1:1L:349:THR:HG21	2:4X:184:PRO:HD3	1.55	0.88
2:1R:214:PHE:CD1	1:2E:326:LYS:HE2	2.09	0.88
2:1S:181:VAL:N	1:2F:258:ASN:HD22	1.71	0.88
2:2H:394:GLN:HG2	1:3A:348:PRO:HG3	1.54	0.88
2:2T:222:PRO:HD2	1:3G:326:LYS:HB3	1.55	0.88
1:1B:346:TRP:HB2	2:4O:397:ALA:O	1.73	0.88
1:1C:2:ARG:CG	2:4P:72:PRO:CD	2.52	0.88
1:1E:263:PRO:CD	2:4R:406:HIS:CD2	2.57	0.88
1:1F:260:VAL:HG12	2:4S:406:HIS:CE1	2.08	0.88
2:1V:179:ASP:O	1:2J:352:LYS:HD2	1.72	0.88
2:2Q:180:THR:CG2	1:3D:258:ASN:HD21	1.86	0.88
2:2T:11:GLN:HE22	1:3G:249:ASN:H	0.89	0.88
2:2V:100:GLY:HA2	1:3J:253:THR:HB	1.55	0.88
2:2Z:100:GLY:CA	1:3N:253:THR:CG2	2.51	0.88
1:1B:346:TRP:O	2:4O:398:MET:CG	2.21	0.88
1:1D:261:PRO:CA	2:4Q:404:PHE:N	2.35	0.88
1:1D:326:LYS:HA	2:4Q:210:TYR:CD1	2.08	0.88
1:1E:262:TYR:C	2:4R:406:HIS:CD2	2.42	0.88
1:1J:329:ASN:HD22	2:4V:210:TYR:HD2	1.17	0.88
1:1M:329:ASN:ND2	2:4Y:210:TYR:CD2	2.39	0.88
2:1O:181:VAL:H	1:2B:258:ASN:ND2	1.72	0.88
2:1T:214:PHE:CE1	1:2G:326:LYS:HE3	2.07	0.88
2:1U:224:TYR:CE2	1:2I:248:LEU:HB2	2.09	0.88
2:2P:210:TYR:HD2	1:3C:329:ASN:HD22	1.15	0.88
2:2P:214:PHE:HB2	1:3C:326:LYS:CE	2.00	0.88
1:1B:2:ARG:HD3	2:4O:72:PRO:CD	2.04	0.88
1:1D:262:TYR:CZ	2:4Q:403:ALA:CA	2.57	0.88
1:1F:332:ILE:HB	2:4S:177:VAL:CG2	2.03	0.88
1:1L:257:THR:OG1	2:4X:100:GLY:O	1.90	0.88
2:1T:404:PHE:CE1	1:2G:260:VAL:C	2.46	0.88
2:1W:179:ASP:O	1:2K:352:LYS:CD	2.21	0.88
2:1X:179:ASP:O	1:2L:352:LYS:CD	2.21	0.88
2:2P:11:GLN:NE2	1:3C:249:ASN:H	1.70	0.88
2:2P:100:GLY:HA3	1:3C:253:THR:HG22	1.53	0.88
2:2T:72:PRO:HD2	1:3G:2:ARG:HD3	1.54	0.88
2:2W:404:PHE:CZ	1:3K:261:PRO:HB3	2.09	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:261:PRO:HB3	2:4P:404:PHE:CE2	2.09	0.88
1:1C:261:PRO:C	2:4P:404:PHE:H	1.77	0.88
1:1F:254:GLU:N	2:4S:100:GLY:HA2	1.87	0.88
1:1F:257:THR:HB	2:4S:100:GLY:O	1.72	0.88
1:1G:253:THR:C	2:4T:100:GLY:HA2	1.94	0.88
1:1I:260:VAL:CB	2:4U:407:TRP:HE1	1.85	0.88
2:1S:221:THR:CB	1:2F:324:VAL:HG11	2.03	0.88
2:1V:221:THR:HA	1:2J:324:VAL:HG11	0.89	0.88
2:2P:100:GLY:HA2	1:3C:253:THR:CB	2.04	0.88
1:1C:263:PRO:N	2:4P:406:HIS:NE2	2.22	0.88
1:1D:329:ASN:ND2	2:4Q:207:GLU:OE1	2.07	0.88
2:1Y:181:VAL:CB	1:2M:258:ASN:HA	2.02	0.88
2:2S:72:PRO:CG	1:3F:2:ARG:HG3	2.03	0.88
2:2V:224:TYR:CE2	1:3J:248:LEU:HB2	2.07	0.88
1:1C:332:ILE:HG21	2:4P:177:VAL:HG23	1.53	0.88
1:1N:258:ASN:ND2	2:4Z:180:THR:HG23	1.87	0.88
2:1O:100:GLY:HA2	1:2B:253:THR:HB	1.54	0.88
2:1S:406:HIS:CD2	1:2F:263:PRO:HD3	2.08	0.88
2:1Y:181:VAL:HG21	1:2M:258:ASN:C	1.94	0.88
2:2H:11:GLN:HE22	1:3A:249:ASN:N	1.71	0.88
2:2T:72:PRO:CG	1:3G:2:ARG:HG3	2.03	0.88
2:2U:224:TYR:OH	1:3I:248:LEU:HD22	1.74	0.88
2:2Y:404:PHE:CE2	1:3M:261:PRO:CB	2.54	0.88
1:1B:248:LEU:HB2	2:4O:224:TYR:HE2	1.38	0.88
1:1E:260:VAL:O	2:4R:407:TRP:HD1	1.53	0.88
1:1F:248:LEU:HA	2:4S:11:GLN:NE2	1.87	0.88
1:1F:261:PRO:CB	2:4S:404:PHE:H	1.86	0.88
1:1L:261:PRO:HA	2:4X:404:PHE:HA	1.56	0.88
2:1V:221:THR:CA	1:2J:324:VAL:CG1	2.42	0.88
2:1V:404:PHE:CZ	1:2J:261:PRO:N	2.42	0.88
2:1Z:401:ARG:HB3	1:2N:262:TYR:OH	1.73	0.88
2:2S:210:TYR:HD2	1:3F:329:ASN:HD22	0.88	0.88
2:2T:176:LYS:O	1:3G:336:LYS:NZ	2.07	0.88
2:2T:404:PHE:CD1	1:3G:261:PRO:CA	2.56	0.88
1:1G:346:TRP:CA	2:4T:397:ALA:O	2.22	0.87
1:1K:260:VAL:HB	2:4W:407:TRP:CZ2	2.10	0.87
1:1L:329:ASN:ND2	2:4X:210:TYR:HD2	1.73	0.87
2:1R:178:SER:HB2	1:2E:349:THR:HB	1.56	0.87
2:1Y:224:TYR:HD2	1:2M:247:ALA:O	1.56	0.87
1:1C:263:PRO:N	2:4P:406:HIS:CD2	2.41	0.87
1:1F:348:PRO:HG3	2:4S:394:GLN:CB	2.02	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1I:349:THR:O	2:4U:181:VAL:HA	1.72	0.87
2:1R:214:PHE:CD1	1:2E:326:LYS:HE3	2.08	0.87
2:1V:404:PHE:N	1:2J:261:PRO:O	2.05	0.87
2:2O:210:TYR:HD2	1:3B:329:ASN:HD22	1.19	0.87
2:2W:11:GLN:HE22	1:3K:249:ASN:H	0.91	0.87
1:1I:346:TRP:CH2	2:4U:404:PHE:CE2	2.63	0.87
2:1V:404:PHE:CZ	1:2J:261:PRO:CA	2.57	0.87
2:2T:221:THR:HG1	1:3G:324:VAL:HG21	1.34	0.87
1:1E:1:MET:O	2:4R:96:GLN:OE1	1.91	0.87
1:1E:2:ARG:HG3	2:4R:72:PRO:HG3	1.55	0.87
1:1K:248:LEU:CA	2:4W:11:GLN:NE2	2.35	0.87
1:1M:249:ASN:N	2:4Y:11:GLN:NE2	2.13	0.87
2:1O:221:THR:OG1	1:2B:324:VAL:HG21	1.74	0.87
2:2T:100:GLY:HA3	1:3G:253:THR:CG2	2.04	0.87
1:1G:257:THR:OG1	2:4T:100:GLY:O	1.92	0.87
2:1T:404:PHE:CZ	1:2G:261:PRO:CA	2.57	0.87
2:1U:221:THR:OG1	1:2I:324:VAL:HG22	1.72	0.87
2:1V:221:THR:CB	1:2J:324:VAL:HG11	2.04	0.87
2:2S:100:GLY:HA2	1:3F:253:THR:HB	1.56	0.87
2:2S:223:THR:HA	1:3F:325:PRO:HD2	1.55	0.87
2:2T:403:ALA:HB2	1:3G:262:TYR:CZ	2.09	0.87
2:2W:403:ALA:CB	1:3K:262:TYR:CZ	2.56	0.87
1:1A:261:PRO:HA	2:4H:404:PHE:CG	2.09	0.87
2:2H:214:PHE:HB2	1:3A:326:LYS:CE	2.00	0.87
2:2U:222:PRO:HG2	1:3I:326:LYS:CB	2.04	0.87
2:2U:406:HIS:NE2	1:3I:263:PRO:N	2.22	0.87
1:1B:262:TYR:HA	2:4O:406:HIS:HD2	1.38	0.87
1:1E:326:LYS:HA	2:4R:210:TYR:CD1	2.10	0.87
1:1J:249:ASN:N	2:4V:11:GLN:NE2	2.18	0.87
2:1Y:404:PHE:CD2	1:2M:261:PRO:HA	2.09	0.87
2:1Z:221:THR:HA	1:2N:324:VAL:HG11	1.56	0.87
2:2Q:100:GLY:O	1:3D:257:THR:OG1	1.91	0.87
1:1A:257:THR:CB	2:4H:100:GLY:O	2.22	0.87
1:1B:314:ALA:HB2	2:4O:181:VAL:HG11	1.55	0.87
1:1B:326:LYS:CB	2:4O:222:PRO:HG2	2.03	0.87
1:1D:329:ASN:HD22	2:4Q:210:TYR:HD2	1.20	0.87
1:1E:324:VAL:HG13	2:4R:222:PRO:O	1.74	0.87
1:1J:248:LEU:C	2:4V:11:GLN:HE22	1.78	0.87
1:1A:262:TYR:CA	2:4H:406:HIS:NE2	2.38	0.87
1:1F:2:ARG:CD	2:4S:72:PRO:CD	2.32	0.87
1:1M:262:TYR:N	2:4Y:406:HIS:NE2	2.21	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1U:100:GLY:HA3	1:2I:253:THR:HG21	1.53	0.87
2:2U:100:GLY:CA	1:3I:253:THR:HG22	2.03	0.87
2:2X:176:LYS:O	1:3L:336:LYS:NZ	2.07	0.87
1:1F:262:TYR:HA	2:4S:406:HIS:HD2	1.06	0.86
1:1F:352:LYS:HD3	2:4S:101:ASN:ND2	1.90	0.86
1:1I:349:THR:OG1	2:4U:184:PRO:CD	2.23	0.86
1:1J:261:PRO:C	2:4V:406:HIS:NE2	2.28	0.86
1:1N:333:ALA:HB1	2:4Z:176:LYS:HE2	1.57	0.86
2:1O:404:PHE:CE2	1:2B:261:PRO:HB3	2.10	0.86
2:2U:180:THR:CG2	1:3I:258:ASN:HD21	1.85	0.86
1:1B:253:THR:C	2:4O:100:GLY:HA2	1.95	0.86
2:1V:406:HIS:CD2	1:2J:263:PRO:HD3	2.09	0.86
2:2Q:72:PRO:HD2	1:3D:2:ARG:HD3	1.56	0.86
2:2U:176:LYS:HE2	1:3I:333:ALA:HB1	1.57	0.86
2:2Y:101:ASN:O	1:3M:257:THR:HG21	1.74	0.86
1:1F:258:ASN:CG	2:4S:101:ASN:ND2	2.27	0.86
1:1J:346:TRP:CZ3	2:4V:404:PHE:CD2	2.62	0.86
2:1U:404:PHE:CE2	1:2I:261:PRO:HA	2.10	0.86
2:1Y:224:TYR:OH	1:2M:248:LEU:HD22	1.76	0.86
2:2S:180:THR:CG2	1:3F:258:ASN:HD21	1.88	0.86
2:2W:210:TYR:HD2	1:3K:329:ASN:ND2	1.73	0.86
1:1F:260:VAL:O	2:4S:407:TRP:HD1	1.52	0.86
1:1B:2:ARG:CG	2:4O:72:PRO:HD2	2.05	0.86
1:1C:249:ASN:N	2:4P:11:GLN:OE1	2.09	0.86
1:1F:332:ILE:HB	2:4S:177:VAL:HG21	1.56	0.86
2:1R:221:THR:OG1	1:2E:324:VAL:CG2	2.23	0.86
2:1U:222:PRO:HD2	1:2I:326:LYS:HB2	1.57	0.86
2:2Y:72:PRO:HG2	1:3M:2:ARG:HG3	1.58	0.86
1:1C:2:ARG:CG	2:4P:72:PRO:CG	2.53	0.86
1:1D:249:ASN:N	2:4Q:11:GLN:CD	2.19	0.86
1:1G:248:LEU:HD13	5:4T:501:GDP:C8	2.10	0.86
2:2Z:11:GLN:NE2	1:3N:249:ASN:H	1.72	0.86
2:2Z:100:GLY:O	1:3N:257:THR:OG1	1.93	0.86
1:1C:254:GLU:HG2	2:4P:101:ASN:N	1.91	0.86
1:1F:247:ALA:O	2:4S:15:GLN:NE2	2.08	0.86
1:1G:261:PRO:HB3	2:4T:404:PHE:CG	2.11	0.86
1:1I:349:THR:CG2	2:4U:184:PRO:HD3	2.06	0.86
2:1Z:401:ARG:HB3	1:2N:262:TYR:HH	1.40	0.86
2:2S:100:GLY:HA3	1:3F:253:THR:CG2	2.05	0.86
2:2T:222:PRO:HG2	1:3G:326:LYS:CB	2.05	0.86
1:1C:261:PRO:CA	2:4P:404:PHE:H	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:261:PRO:CA	2:4R:404:PHE:H	1.88	0.86
1:1E:329:ASN:HD22	2:4R:210:TYR:HD2	1.24	0.86
1:1K:346:TRP:CZ3	2:4W:404:PHE:CD2	2.63	0.86
1:1M:258:ASN:CG	2:4Y:101:ASN:HD22	1.79	0.86
2:1U:181:VAL:HG23	1:2I:258:ASN:CB	2.06	0.86
2:2H:100:GLY:CA	1:3A:253:THR:HB	2.06	0.86
2:2V:406:HIS:NE2	1:3J:263:PRO:N	2.22	0.86
2:2Y:214:PHE:CD1	1:3M:326:LYS:HE3	2.10	0.86
1:1I:329:ASN:HD22	2:4U:210:TYR:HD2	1.20	0.86
1:1J:437:VAL:O	2:4V:401:ARG:NH1	2.09	0.86
1:1K:247:ALA:O	2:4W:15:GLN:NE2	2.09	0.86
1:1N:261:PRO:CA	2:4Z:404:PHE:CD1	2.57	0.86
2:1S:403:ALA:HB2	1:2F:262:TYR:CZ	2.11	0.86
2:1W:181:VAL:CG2	1:2K:258:ASN:CB	2.46	0.86
2:1W:404:PHE:CZ	1:2K:261:PRO:N	2.44	0.86
2:1Z:214:PHE:CB	1:2N:326:LYS:HE2	2.06	0.86
2:2V:77:SER:HB3	1:3J:245:ASP:OD1	1.75	0.86
1:1A:348:PRO:CG	2:4H:394:GLN:CG	2.53	0.86
2:1P:221:THR:OG1	1:2C:324:VAL:HG21	1.74	0.86
2:2R:177:VAL:HG23	1:3E:332:ILE:CG2	2.06	0.86
2:2Z:207:GLU:OE1	1:3N:329:ASN:ND2	2.07	0.86
2:2Z:224:TYR:CE2	1:3N:248:LEU:HB2	2.11	0.86
1:1A:314:ALA:HB1	2:4H:181:VAL:HG21	1.58	0.85
2:1S:178:SER:O	1:2F:351:PHE:O	1.92	0.85
2:2T:403:ALA:HB2	1:3G:262:TYR:OH	1.75	0.85
1:1A:261:PRO:CA	2:4H:404:PHE:CD1	2.60	0.85
1:1C:258:ASN:HD21	2:4P:180:THR:CG2	1.90	0.85
1:1D:262:TYR:CE2	2:4Q:403:ALA:HA	2.10	0.85
1:1E:349:THR:CB	2:4R:184:PRO:HD3	2.06	0.85
1:1G:352:LYS:HD3	2:4T:101:ASN:ND2	1.91	0.85
1:1J:346:TRP:CZ3	2:4V:404:PHE:CE2	2.64	0.85
1:1N:326:LYS:CE	2:4Z:214:PHE:HB2	2.05	0.85
2:1Y:207:GLU:OE1	1:2M:329:ASN:ND2	2.09	0.85
2:2R:72:PRO:CG	1:3E:2:ARG:HG3	2.06	0.85
2:2W:404:PHE:CE1	1:3K:261:PRO:N	2.44	0.85
1:1B:314:ALA:HB1	2:4O:181:VAL:HG21	1.58	0.85
1:1G:348:PRO:CG	2:4T:394:GLN:HB3	2.06	0.85
2:1Y:404:PHE:N	1:2M:261:PRO:O	2.09	0.85
2:2O:100:GLY:CA	1:3B:253:THR:HB	2.05	0.85
2:2P:77:SER:HB3	1:3C:245:ASP:OD1	1.76	0.85
2:2Q:11:GLN:HE22	1:3D:249:ASN:H	1.17	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2R:100:GLY:HA3	1:3E:253:THR:CG2	2.04	0.85
2:2V:181:VAL:HG21	1:3J:258:ASN:O	1.75	0.85
1:1E:326:LYS:HB2	2:4R:222:PRO:HG2	1.58	0.85
1:1E:332:ILE:CB	2:4R:177:VAL:HG23	2.06	0.85
1:1F:263:PRO:HD3	2:4S:406:HIS:CD2	2.11	0.85
1:1G:258:ASN:CG	2:4T:101:ASN:ND2	2.30	0.85
1:1I:326:LYS:HA	2:4U:210:TYR:CE1	2.11	0.85
1:1I:329:ASN:HB2	2:4U:210:TYR:CE2	2.11	0.85
1:1I:353:VAL:HB	2:4U:179:ASP:OD1	1.75	0.85
1:1L:248:LEU:CA	2:4X:11:GLN:HE22	1.86	0.85
1:1M:326:LYS:CB	2:4Y:222:PRO:HG2	2.06	0.85
2:1U:221:THR:CB	1:2I:324:VAL:HG21	2.04	0.85
2:1V:101:ASN:HB2	1:2J:254:GLU:HG2	1.58	0.85
2:1W:100:GLY:HA3	1:2K:253:THR:CG2	1.97	0.85
2:2P:394:GLN:HG2	1:3C:348:PRO:HG3	1.56	0.85
1:1A:346:TRP:HB2	2:4H:398:MET:HA	1.57	0.85
1:1C:346:TRP:CA	2:4P:397:ALA:O	2.25	0.85
1:1D:257:THR:CB	2:4Q:100:GLY:O	2.24	0.85
1:1G:260:VAL:O	2:4T:407:TRP:HD1	1.60	0.85
1:1I:261:PRO:CA	2:4U:404:PHE:HA	2.05	0.85
2:1U:224:TYR:CD2	1:2I:247:ALA:O	2.29	0.85
2:2H:224:TYR:OH	1:3A:248:LEU:HD22	1.77	0.85
2:2U:72:PRO:CG	1:3I:2:ARG:HG3	2.05	0.85
1:1B:329:ASN:HB2	2:4O:210:TYR:CE2	2.10	0.85
1:1B:332:ILE:HG21	2:4O:177:VAL:HG23	1.59	0.85
1:1C:324:VAL:HG13	2:4P:222:PRO:O	1.76	0.85
1:1E:346:TRP:HB2	2:4R:397:ALA:O	1.73	0.85
1:1F:261:PRO:HB2	2:4S:404:PHE:H	1.39	0.85
1:1K:346:TRP:HB2	2:4W:398:MET:HA	1.58	0.85
1:1M:249:ASN:H	2:4Y:11:GLN:CD	1.78	0.85
2:2O:394:GLN:HG2	1:3B:348:PRO:HG3	1.56	0.85
2:2X:222:PRO:CG	1:3L:326:LYS:HB2	2.06	0.85
2:2X:404:PHE:CD1	1:3L:261:PRO:CA	2.59	0.85
1:1A:263:PRO:N	2:4H:406:HIS:NE2	2.24	0.85
1:1C:326:LYS:CB	2:4P:222:PRO:HG2	2.06	0.85
1:1G:2:ARG:CG	2:4T:72:PRO:CG	2.54	0.85
2:2S:177:VAL:HG23	1:3F:332:ILE:CG2	2.07	0.85
2:2Y:100:GLY:CA	1:3M:253:THR:HG22	2.04	0.85
1:1D:260:VAL:HB	2:4Q:407:TRP:CE2	2.10	0.85
1:1D:332:ILE:HB	2:4Q:177:VAL:CG2	2.07	0.85
1:1G:329:ASN:HD22	2:4T:210:TYR:HD2	1.23	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:349:THR:CB	2:4T:184:PRO:HD3	2.06	0.85
1:1M:346:TRP:CZ3	2:4Y:404:PHE:CE2	2.64	0.85
2:1S:404:PHE:CE2	1:2F:261:PRO:CB	2.60	0.85
2:2O:11:GLN:NE2	1:3B:249:ASN:H	1.74	0.85
2:2T:406:HIS:NE2	1:3G:263:PRO:N	2.24	0.85
2:2U:100:GLY:HA2	1:3I:253:THR:HB	1.59	0.85
1:1A:258:ASN:CG	2:4H:101:ASN:ND2	2.29	0.85
1:1B:348:PRO:HG2	2:4O:394:GLN:HB3	1.57	0.85
1:1C:261:PRO:HB3	2:4P:404:PHE:CG	2.12	0.85
1:1E:262:TYR:N	2:4R:406:HIS:NE2	2.25	0.85
2:1S:404:PHE:CD1	1:2F:261:PRO:HA	2.12	0.85
2:1X:224:TYR:CE2	1:2L:247:ALA:O	2.29	0.85
2:2H:11:GLN:NE2	1:3A:249:ASN:H	1.75	0.85
2:2U:404:PHE:CZ	1:3I:261:PRO:HB3	2.12	0.85
1:1D:248:LEU:CD1	5:4Q:501:GDP:H8	1.89	0.85
1:1E:248:LEU:C	2:4R:11:GLN:HE22	1.79	0.85
1:1E:263:PRO:HD3	2:4R:406:HIS:CB	2.07	0.85
1:1L:346:TRP:HB2	2:4X:398:MET:HA	1.57	0.85
2:2U:403:ALA:CB	1:3I:262:TYR:CZ	2.60	0.85
1:1B:261:PRO:CA	2:4O:404:PHE:HA	2.07	0.84
1:1E:258:ASN:ND2	2:4R:182:VAL:HG22	1.91	0.84
1:1F:2:ARG:CG	2:4S:72:PRO:HD2	2.07	0.84
1:1F:262:TYR:CE2	2:4S:403:ALA:HA	2.12	0.84
2:1H:207:GLU:OE1	1:2A:329:ASN:ND2	2.10	0.84
2:2P:100:GLY:CA	1:3C:253:THR:HB	2.06	0.84
2:2R:180:THR:CG2	1:3E:258:ASN:HD21	1.88	0.84
2:2T:100:GLY:HA2	1:3G:253:THR:HB	1.59	0.84
1:1A:2:ARG:CD	2:4H:72:PRO:HD2	2.07	0.84
1:1F:254:GLU:HG2	2:4S:101:ASN:N	1.91	0.84
1:1F:348:PRO:HG2	2:4S:394:GLN:CB	2.05	0.84
2:1X:404:PHE:CG	1:2L:261:PRO:HA	2.12	0.84
2:2P:178:SER:O	1:3C:351:PHE:HB2	1.76	0.84
2:2R:214:PHE:CB	1:3E:326:LYS:HE2	2.03	0.84
2:2R:404:PHE:CD1	1:3E:261:PRO:HA	2.11	0.84
2:2T:222:PRO:CG	1:3G:326:LYS:HB2	2.07	0.84
1:1C:348:PRO:HG3	2:4P:394:GLN:HG2	1.60	0.84
1:1D:262:TYR:CE1	2:4Q:402:LYS:O	2.31	0.84
1:1J:346:TRP:HZ3	2:4V:404:PHE:CD2	1.95	0.84
2:1T:100:GLY:CA	1:2G:253:THR:CG2	2.55	0.84
2:1U:404:PHE:CD1	1:2I:260:VAL:O	2.30	0.84
2:1W:182:VAL:HG21	1:2K:257:THR:CG2	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Q:407:TRP:HE1	1:3D:260:VAL:HB	1.40	0.84
2:2V:100:GLY:CA	1:3J:253:THR:CG2	2.53	0.84
1:1B:257:THR:HG21	2:4O:101:ASN:O	1.76	0.84
1:1B:332:ILE:CG2	2:4O:177:VAL:CG2	2.55	0.84
1:1E:262:TYR:CE1	2:4R:402:LYS:O	2.31	0.84
1:1E:263:PRO:N	2:4R:406:HIS:CD2	2.45	0.84
1:1G:261:PRO:HB3	2:4T:404:PHE:CD2	2.11	0.84
1:1N:346:TRP:HB2	2:4Z:398:MET:HA	1.59	0.84
2:1Y:224:TYR:CE2	1:2M:247:ALA:O	2.30	0.84
2:2H:403:ALA:HB2	1:3A:262:TYR:CZ	2.11	0.84
2:2V:404:PHE:CE1	1:3J:261:PRO:N	2.45	0.84
2:2W:406:HIS:NE2	1:3K:263:PRO:N	2.26	0.84
2:2X:403:ALA:CB	1:3L:262:TYR:CZ	2.61	0.84
2:2Z:11:GLN:HE22	1:3N:249:ASN:H	1.18	0.84
1:1A:260:VAL:HB	2:4H:407:TRP:HE1	1.42	0.84
1:1A:348:PRO:CB	2:4H:394:GLN:HG2	2.07	0.84
1:1B:348:PRO:CG	2:4O:394:GLN:CB	2.56	0.84
1:1K:2:ARG:CD	2:4W:72:PRO:HD2	2.03	0.84
2:1Y:11:GLN:NE2	1:2M:249:ASN:ND2	2.25	0.84
2:2T:214:PHE:CB	1:3G:326:LYS:HE2	2.00	0.84
1:1D:258:ASN:ND2	2:4Q:182:VAL:HG22	1.93	0.84
1:1E:261:PRO:CA	2:4R:404:PHE:N	2.41	0.84
1:1G:2:ARG:HG3	2:4T:72:PRO:HG3	1.58	0.84
2:1R:406:HIS:CD2	1:2E:263:PRO:HD3	2.13	0.84
2:1V:181:VAL:HB	1:2J:258:ASN:CA	2.05	0.84
1:1G:329:ASN:HB2	2:4T:210:TYR:HE2	1.42	0.84
1:1I:346:TRP:CE3	2:4U:403:ALA:HB3	2.13	0.84
1:1N:258:ASN:CG	2:4Z:101:ASN:ND2	2.30	0.84
2:1T:404:PHE:CD1	1:2G:261:PRO:HA	2.12	0.84
2:1X:181:VAL:CB	1:2L:258:ASN:CA	2.53	0.84
2:1Z:179:ASP:O	1:2N:352:LYS:HD2	1.77	0.84
2:2H:210:TYR:HD2	1:3A:329:ASN:HD22	1.19	0.84
2:2T:221:THR:OG1	1:3G:324:VAL:CG2	2.24	0.84
1:1E:245:ASP:CG	2:4R:77:SER:HB3	1.98	0.84
1:1E:261:PRO:CB	2:4R:404:PHE:N	2.41	0.84
1:1E:332:ILE:HB	2:4R:177:VAL:HG21	1.57	0.84
1:1F:261:PRO:HA	2:4S:404:PHE:HA	0.89	0.84
1:1N:260:VAL:O	2:4Z:407:TRP:NE1	2.10	0.84
2:1Y:404:PHE:CD1	1:2M:260:VAL:O	2.31	0.84
2:2U:403:ALA:HA	1:3I:262:TYR:CZ	2.13	0.84
1:1D:262:TYR:CA	2:4Q:406:HIS:NE2	2.33	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:353:VAL:CB	2:4T:179:ASP:OD1	2.25	0.84
2:2R:407:TRP:HE1	1:3E:260:VAL:HB	1.41	0.84
2:2V:214:PHE:CD1	1:3J:326:LYS:HE3	2.12	0.84
1:1B:258:ASN:HD21	2:4O:180:THR:CG2	1.90	0.84
1:1F:329:ASN:HD22	2:4S:210:TYR:HD2	1.24	0.84
1:1G:346:TRP:O	2:4T:398:MET:HA	1.75	0.84
2:1X:224:TYR:CE2	1:2L:248:LEU:HB2	2.13	0.84
2:2S:101:ASN:O	1:3F:257:THR:HG21	1.76	0.84
1:1A:261:PRO:O	2:4H:404:PHE:N	2.11	0.83
1:1D:332:ILE:CB	2:4Q:177:VAL:HG23	2.08	0.83
1:1G:348:PRO:CG	2:4T:394:GLN:CB	2.56	0.83
1:1I:332:ILE:HG22	2:4U:177:VAL:HG23	1.60	0.83
1:1J:260:VAL:HB	2:4V:407:TRP:NE1	1.91	0.83
2:1W:221:THR:CA	1:2K:324:VAL:CG1	2.46	0.83
2:2U:404:PHE:CD2	1:3I:261:PRO:CB	2.61	0.83
2:2V:100:GLY:HA2	1:3J:253:THR:CB	2.07	0.83
1:1B:248:LEU:HD13	5:4O:501:GDP:H8	1.43	0.83
1:1B:262:TYR:CA	2:4O:406:HIS:NE2	2.41	0.83
1:1B:346:TRP:O	2:4O:398:MET:HG2	1.78	0.83
1:1E:351:PHE:O	2:4R:180:THR:C	2.16	0.83
1:1I:257:THR:OG1	2:4U:100:GLY:O	1.95	0.83
2:1S:224:TYR:OH	1:2F:248:LEU:HD22	1.78	0.83
2:1T:221:THR:HA	1:2G:324:VAL:CG1	2.06	0.83
1:1B:245:ASP:OD1	2:4O:77:SER:CB	2.23	0.83
1:1F:329:ASN:HB2	2:4S:210:TYR:HE2	1.38	0.83
1:1G:324:VAL:CG1	2:4T:222:PRO:O	2.26	0.83
1:1K:249:ASN:H	2:4W:11:GLN:CD	1.81	0.83
1:1K:257:THR:OG1	2:4W:100:GLY:O	1.95	0.83
1:1N:258:ASN:CG	2:4Z:101:ASN:HD22	1.81	0.83
2:1R:221:THR:CA	1:2E:324:VAL:HG11	2.07	0.83
2:1W:221:THR:HA	1:2K:324:VAL:HG11	0.86	0.83
2:2Z:101:ASN:O	1:3N:257:THR:HG21	1.78	0.83
1:1A:332:ILE:HG22	2:4H:177:VAL:HG23	1.59	0.83
1:1C:262:TYR:CA	2:4P:406:HIS:NE2	2.40	0.83
1:1E:261:PRO:HB2	2:4R:404:PHE:H	1.41	0.83
1:1F:245:ASP:CG	2:4S:77:SER:HB3	1.98	0.83
1:1G:262:TYR:OH	2:4T:401:ARG:O	1.96	0.83
1:1L:325:PRO:HD2	2:4X:223:THR:HA	1.59	0.83
1:1M:329:ASN:HB2	2:4Y:210:TYR:CE2	2.13	0.83
2:1Q:181:VAL:H	1:2D:258:ASN:ND2	1.76	0.83
2:1Y:182:VAL:HG21	1:2M:257:THR:CG2	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Q:72:PRO:HG2	1:3D:2:ARG:HG3	1.59	0.83
2:2Q:406:HIS:CG	1:3D:263:PRO:HD3	2.14	0.83
2:2T:403:ALA:HA	1:3G:262:TYR:CZ	2.12	0.83
1:1C:253:THR:CG2	2:4P:100:GLY:HA3	2.07	0.83
1:1I:346:TRP:O	2:4U:398:MET:CA	2.26	0.83
1:1J:257:THR:OG1	2:4V:100:GLY:O	1.96	0.83
1:1L:262:TYR:C	2:4X:406:HIS:NE2	2.32	0.83
2:1H:404:PHE:CE2	1:2A:261:PRO:HB3	2.13	0.83
2:2H:100:GLY:CA	1:3A:253:THR:CG2	2.55	0.83
2:2S:214:PHE:CB	1:3F:326:LYS:HE2	2.03	0.83
2:2Y:181:VAL:CG2	1:3M:258:ASN:O	2.26	0.83
1:1D:261:PRO:CB	2:4Q:404:PHE:H	1.90	0.83
1:1E:329:ASN:HB2	2:4R:210:TYR:HE2	1.41	0.83
1:1G:346:TRP:CE3	2:4T:403:ALA:HB3	2.13	0.83
1:1K:262:TYR:C	2:4W:406:HIS:NE2	2.32	0.83
1:1M:2:ARG:CD	2:4Y:72:PRO:HD2	2.07	0.83
2:1Q:181:VAL:H	1:2D:258:ASN:HD22	1.25	0.83
2:1X:214:PHE:CE1	1:2L:326:LYS:HE3	2.14	0.83
2:1Z:181:VAL:H	1:2N:258:ASN:HD22	1.21	0.83
2:2Q:177:VAL:HG23	1:3D:332:ILE:CG2	2.09	0.83
2:2V:404:PHE:CD2	1:3J:261:PRO:CB	2.60	0.83
1:1B:263:PRO:CD	2:4O:406:HIS:CG	2.57	0.83
1:1E:262:TYR:CZ	2:4R:403:ALA:CA	2.62	0.83
1:1E:332:ILE:HG21	2:4R:177:VAL:CG2	2.09	0.83
1:1K:257:THR:HB	2:4W:100:GLY:O	1.79	0.83
2:1T:181:VAL:HB	1:2G:258:ASN:HA	1.61	0.83
2:2X:181:VAL:CG2	1:3L:258:ASN:O	2.27	0.83
1:1D:325:PRO:O	2:4Q:210:TYR:CZ	2.31	0.83
1:1F:2:ARG:HG3	2:4S:72:PRO:HG2	1.59	0.83
1:1L:326:LYS:HB2	2:4X:222:PRO:HG2	1.59	0.83
1:1L:329:ASN:ND2	2:4X:210:TYR:CD2	2.44	0.83
2:1S:214:PHE:HB2	1:2F:326:LYS:HE2	1.61	0.83
2:2U:224:TYR:CE2	1:3I:248:LEU:HB2	2.12	0.83
1:1C:261:PRO:CA	2:4P:404:PHE:N	2.42	0.83
1:1F:2:ARG:CG	2:4S:72:PRO:CD	2.56	0.83
1:1G:260:VAL:C	2:4T:407:TRP:HE1	1.81	0.83
1:1K:346:TRP:HZ3	2:4W:404:PHE:CD2	1.95	0.83
2:1W:181:VAL:CG2	1:2K:258:ASN:CA	2.56	0.83
2:2O:181:VAL:HG21	1:3B:258:ASN:O	1.79	0.83
1:1C:249:ASN:N	2:4P:11:GLN:CD	2.29	0.83
1:1F:346:TRP:O	2:4S:398:MET:HA	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1F:348:PRO:CG	2:4S:394:GLN:HG2	2.09	0.83
1:1D:254:GLU:HB3	2:4Q:101:ASN:HB2	1.58	0.82
1:1D:352:LYS:HA	2:4Q:179:ASP:O	1.79	0.82
1:1E:248:LEU:CD1	5:4R:501:GDP:H8	1.92	0.82
2:1U:222:PRO:O	1:2I:325:PRO:HD2	1.78	0.82
2:2Q:100:GLY:HA2	1:3D:253:THR:CB	2.09	0.82
2:2S:210:TYR:HD2	1:3F:329:ASN:ND2	1.73	0.82
2:2Z:72:PRO:HG2	1:3N:2:ARG:HG3	1.61	0.82
2:2Z:100:GLY:CA	1:3N:253:THR:HG22	2.09	0.82
1:1E:261:PRO:HA	2:4R:404:PHE:HA	0.85	0.82
1:1E:346:TRP:HA	2:4R:397:ALA:C	1.99	0.82
1:1K:261:PRO:C	2:4W:406:HIS:NE2	2.31	0.82
2:1U:181:VAL:CG2	1:2I:258:ASN:HB3	2.10	0.82
2:2P:100:GLY:O	1:3C:257:THR:OG1	1.97	0.82
2:2T:100:GLY:CA	1:3G:253:THR:HG22	2.09	0.82
2:2U:11:GLN:HE22	1:3I:249:ASN:H	0.83	0.82
1:1A:261:PRO:HA	2:4H:404:PHE:CA	2.09	0.82
1:1B:329:ASN:ND2	2:4O:207:GLU:OE1	2.12	0.82
1:1B:329:ASN:ND2	2:4O:210:TYR:HD2	1.77	0.82
1:1D:326:LYS:CB	2:4Q:222:PRO:HG2	2.09	0.82
1:1D:346:TRP:O	2:4Q:398:MET:HG2	1.78	0.82
1:1L:346:TRP:CZ3	2:4X:404:PHE:CD2	2.67	0.82
2:2R:207:GLU:OE1	1:3E:329:ASN:ND2	2.12	0.82
2:2V:403:ALA:HA	1:3J:262:TYR:CE1	2.13	0.82
1:1E:254:GLU:HA	2:4R:100:GLY:C	1.98	0.82
1:1L:248:LEU:CA	2:4X:11:GLN:NE2	2.41	0.82
2:1X:11:GLN:NE2	1:2L:249:ASN:ND2	2.27	0.82
2:2P:11:GLN:HE22	1:3C:249:ASN:H	1.23	0.82
2:2T:394:GLN:CG	1:3G:348:PRO:CG	2.58	0.82
2:2U:403:ALA:HA	1:3I:262:TYR:CE1	2.15	0.82
2:2X:404:PHE:CE1	1:3L:261:PRO:N	2.47	0.82
1:1C:314:ALA:HB1	2:4P:181:VAL:HG21	1.60	0.82
1:1L:249:ASN:N	2:4X:11:GLN:NE2	2.19	0.82
2:2T:180:THR:CG2	1:3G:258:ASN:HD21	1.87	0.82
1:1B:332:ILE:HG21	2:4O:177:VAL:CG2	2.09	0.82
1:1C:261:PRO:HA	2:4P:404:PHE:CG	2.14	0.82
1:1D:261:PRO:O	2:4Q:404:PHE:N	2.12	0.82
1:1F:254:GLU:HA	2:4S:100:GLY:C	2.00	0.82
1:1G:263:PRO:CD	2:4T:406:HIS:CG	2.63	0.82
1:1I:261:PRO:C	2:4U:406:HIS:NE2	2.32	0.82
2:1P:181:VAL:H	1:2C:258:ASN:ND2	1.77	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2H:176:LYS:HE2	1:3A:333:ALA:HB1	1.59	0.82
2:2P:407:TRP:HE1	1:3C:260:VAL:HB	1.45	0.82
1:1A:249:ASN:N	2:4H:11:GLN:NE2	2.04	0.82
1:1B:325:PRO:HD2	2:4O:223:THR:HA	1.61	0.82
1:1F:263:PRO:HD3	2:4S:406:HIS:CB	2.09	0.82
1:1F:351:PHE:O	2:4S:180:THR:C	2.16	0.82
1:1N:326:LYS:HB3	2:4Z:222:PRO:HD2	1.61	0.82
2:1W:406:HIS:CD2	1:2K:263:PRO:HD3	2.14	0.82
5:2R:501:GDP:C8	1:3E:248:LEU:HD13	2.15	0.82
1:1B:253:THR:CG2	2:4O:100:GLY:HA3	2.09	0.82
1:1G:348:PRO:HG3	2:4T:394:GLN:CB	2.10	0.82
2:1R:221:THR:HA	1:2E:324:VAL:HG11	1.62	0.82
2:1T:178:SER:HB2	1:2G:349:THR:HB	1.59	0.82
2:2H:100:GLY:O	1:3A:257:THR:OG1	1.98	0.82
2:2H:404:PHE:CD1	1:3A:261:PRO:HA	2.13	0.82
1:1B:260:VAL:O	2:4O:407:TRP:CD1	2.31	0.82
1:1K:249:ASN:N	2:4W:11:GLN:NE2	2.21	0.82
1:1M:258:ASN:ND2	2:4Y:101:ASN:ND2	2.27	0.82
1:1M:346:TRP:HH2	2:4Y:404:PHE:CE2	1.95	0.82
1:1N:314:ALA:HB1	2:4Z:181:VAL:HG21	1.60	0.82
2:1O:214:PHE:HB2	1:2B:326:LYS:HE2	1.60	0.82
2:1W:401:ARG:HB3	1:2K:262:TYR:OH	1.80	0.82
1:1C:348:PRO:HG3	2:4P:394:GLN:CB	2.07	0.82
2:1Y:100:GLY:CA	1:2M:253:THR:HG21	2.09	0.82
5:2S:501:GDP:C8	1:3F:248:LEU:HD13	2.14	0.82
1:1D:261:PRO:C	2:4Q:404:PHE:H	1.82	0.81
1:1D:324:VAL:HG13	2:4Q:222:PRO:C	2.01	0.81
1:1G:349:THR:CG2	2:4T:184:PRO:HD3	2.09	0.81
2:1W:178:SER:HB3	1:2K:349:THR:HB	1.62	0.81
1:1A:329:ASN:HB2	2:4H:210:TYR:CE2	2.15	0.81
1:1N:262:TYR:CZ	2:4Z:403:ALA:CA	2.61	0.81
2:1T:178:SER:HB3	1:2G:349:THR:CB	2.09	0.81
2:1X:404:PHE:CE2	1:2L:261:PRO:CB	2.62	0.81
2:2V:404:PHE:CG	1:3J:261:PRO:CA	2.63	0.81
1:1C:257:THR:CB	2:4P:100:GLY:O	2.27	0.81
1:1I:346:TRP:O	2:4U:398:MET:HA	1.80	0.81
1:1I:346:TRP:CZ3	2:4U:404:PHE:CD2	2.67	0.81
1:1I:348:PRO:HG3	2:4U:394:GLN:HA	1.63	0.81
2:1H:181:VAL:N	1:2A:258:ASN:ND2	2.28	0.81
2:1U:404:PHE:CZ	1:2I:261:PRO:N	2.48	0.81
2:1V:100:GLY:HA3	1:2J:253:THR:CG2	2.04	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1Y:401:ARG:CB	1:2M:262:TYR:OH	2.28	0.81
2:2S:222:PRO:HG2	1:3F:326:LYS:CB	2.09	0.81
2:2S:403:ALA:HB2	1:3F:262:TYR:CZ	2.16	0.81
1:1D:263:PRO:N	2:4Q:406:HIS:NE2	2.27	0.81
1:1F:352:LYS:HD3	2:4S:101:ASN:HD21	1.45	0.81
1:1F:353:VAL:CG2	2:4S:179:ASP:OD1	2.29	0.81
2:2U:100:GLY:CA	1:3I:253:THR:CG2	2.59	0.81
1:1E:325:PRO:O	2:4R:210:TYR:CZ	2.34	0.81
1:1N:262:TYR:OH	2:4Z:403:ALA:HB2	1.81	0.81
2:2W:222:PRO:HD2	1:3K:326:LYS:CB	2.11	0.81
1:1C:257:THR:HG21	2:4P:101:ASN:O	1.80	0.81
1:1G:346:TRP:CB	2:4T:397:ALA:O	2.29	0.81
1:1K:248:LEU:C	2:4W:11:GLN:HE22	1.83	0.81
2:1X:401:ARG:CB	1:2L:262:TYR:OH	2.27	0.81
2:2O:221:THR:OG1	1:3B:324:VAL:CG2	2.26	0.81
2:2T:404:PHE:CD2	1:3G:261:PRO:CB	2.64	0.81
2:2X:404:PHE:CZ	1:3L:261:PRO:HB3	2.15	0.81
1:1E:326:LYS:CB	2:4R:222:PRO:HG2	2.10	0.81
1:1F:326:LYS:HE2	2:4S:214:PHE:HB2	1.60	0.81
1:1I:260:VAL:HB	2:4U:407:TRP:HE1	1.40	0.81
2:1Y:207:GLU:CD	1:2M:329:ASN:HD21	1.83	0.81
1:1C:248:LEU:CD1	5:4P:501:GDP:H8	1.93	0.81
1:1I:351:PHE:CB	2:4U:178:SER:O	2.26	0.81
2:1Y:101:ASN:HB2	1:2M:254:GLU:CG	2.07	0.81
2:2S:394:GLN:CG	1:3F:348:PRO:CG	2.59	0.81
1:1B:257:THR:CB	2:4O:100:GLY:O	2.27	0.81
1:1I:348:PRO:HG2	2:4U:394:GLN:HB3	1.63	0.81
1:1K:329:ASN:ND2	2:4W:210:TYR:HD2	1.79	0.81
1:1L:247:ALA:O	2:4X:15:GLN:NE2	2.13	0.81
2:2O:100:GLY:O	1:3B:257:THR:OG1	1.99	0.81
2:2Q:72:PRO:CG	1:3D:2:ARG:HG3	2.11	0.81
2:2X:223:THR:HA	1:3L:325:PRO:HD2	1.61	0.81
1:1D:254:GLU:N	2:4Q:100:GLY:HA2	1.95	0.81
1:1L:249:ASN:H	2:4X:11:GLN:CD	1.83	0.81
1:1L:261:PRO:O	2:4X:406:HIS:CD2	2.33	0.81
2:1U:404:PHE:N	1:2I:261:PRO:O	2.14	0.81
2:2H:394:GLN:HG2	1:3A:348:PRO:HG2	1.64	0.81
2:2S:11:GLN:CD	1:3F:249:ASN:H	1.83	0.81
2:2V:176:LYS:HE2	1:3J:333:ALA:HB1	1.63	0.81
2:2W:403:ALA:HA	1:3K:262:TYR:CE1	2.16	0.81
2:2X:221:THR:CA	1:3L:324:VAL:HG11	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:260:VAL:CB	2:4T:407:TRP:NE1	2.29	0.80
2:1T:221:THR:OG1	1:2G:324:VAL:CG1	2.29	0.80
2:1X:404:PHE:CE2	1:2L:261:PRO:CA	2.64	0.80
2:2P:72:PRO:HG2	1:3C:2:ARG:HG3	1.63	0.80
2:2R:72:PRO:HD2	1:3E:2:ARG:CD	2.12	0.80
2:2Z:100:GLY:CA	1:3N:253:THR:HB	2.10	0.80
1:1A:351:PHE:O	2:4H:180:THR:N	2.14	0.80
1:1C:352:LYS:HA	2:4P:179:ASP:O	1.79	0.80
1:1D:346:TRP:HB3	2:4Q:397:ALA:O	1.81	0.80
1:1F:347:CYS:HA	2:4S:398:MET:HG2	1.63	0.80
1:1I:351:PHE:O	2:4U:180:THR:N	2.12	0.80
2:2R:101:ASN:O	1:3E:257:THR:HG21	1.81	0.80
2:2T:177:VAL:HG23	1:3G:332:ILE:CG2	2.10	0.80
2:2W:178:SER:O	1:3K:351:PHE:HB2	1.81	0.80
2:2Y:178:SER:O	1:3M:351:PHE:O	1.99	0.80
2:2Y:403:ALA:HB2	1:3M:262:TYR:OH	1.80	0.80
1:1B:348:PRO:HG2	2:4O:394:GLN:CB	2.11	0.80
1:1E:349:THR:CG2	2:4R:184:PRO:HG3	2.12	0.80
1:1J:349:THR:CG2	2:4V:184:PRO:HD3	2.09	0.80
2:1Y:179:ASP:OD2	1:2M:248:LEU:HD21	1.81	0.80
2:2H:179:ASP:O	1:3A:352:LYS:HD2	1.81	0.80
2:2P:176:LYS:HE2	1:3C:333:ALA:CB	2.10	0.80
2:2R:11:GLN:CD	1:3E:249:ASN:H	1.85	0.80
5:2T:501:GDP:C8	1:3G:248:LEU:HD13	2.15	0.80
2:2U:404:PHE:CG	1:3I:261:PRO:CA	2.65	0.80
1:1I:346:TRP:HH2	2:4U:404:PHE:CE2	2.00	0.80
1:1M:258:ASN:HD21	2:4Y:101:ASN:ND2	1.79	0.80
2:1Q:406:HIS:CD2	1:2D:263:PRO:HD3	2.17	0.80
2:1U:404:PHE:CD1	1:2I:261:PRO:HA	2.17	0.80
2:2H:11:GLN:HE22	1:3A:249:ASN:H	1.23	0.80
2:2O:404:PHE:H	1:3B:261:PRO:C	1.85	0.80
2:2U:403:ALA:CA	1:3I:262:TYR:CZ	2.64	0.80
1:1C:2:ARG:CD	2:4P:72:PRO:CD	2.54	0.80
1:1C:324:VAL:HG21	2:4P:221:THR:HG1	1.45	0.80
1:1E:254:GLU:HB3	2:4R:101:ASN:HB2	1.62	0.80
1:1G:314:ALA:HB2	2:4T:181:VAL:HG11	1.62	0.80
2:1S:404:PHE:CZ	1:2F:261:PRO:HB3	2.16	0.80
2:1X:180:THR:CG2	1:2L:258:ASN:HD21	1.95	0.80
2:1Z:404:PHE:CE2	1:2N:261:PRO:HB3	2.15	0.80
2:2H:224:TYR:CE2	1:3A:248:LEU:HB2	2.16	0.80
2:2V:222:PRO:HD2	1:3J:326:LYS:CB	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:263:PRO:CD	2:4H:406:HIS:CG	2.62	0.80
1:1B:261:PRO:HB3	2:4O:404:PHE:CG	2.17	0.80
1:1D:314:ALA:HB1	2:4Q:181:VAL:HG11	1.64	0.80
1:1E:326:LYS:CE	2:4R:214:PHE:HB2	2.11	0.80
1:1L:263:PRO:HD3	2:4X:406:HIS:CD2	2.16	0.80
2:1Z:179:ASP:OD2	1:2N:248:LEU:HD21	1.81	0.80
2:2Q:179:ASP:OD1	1:3D:353:VAL:HB	1.82	0.80
1:1B:261:PRO:HA	2:4O:404:PHE:CD1	2.17	0.80
1:1E:352:LYS:HD3	2:4R:101:ASN:HD21	1.45	0.80
1:1E:353:VAL:CG2	2:4R:179:ASP:OD1	2.30	0.80
1:1F:261:PRO:CA	2:4S:404:PHE:CA	2.48	0.80
1:1F:351:PHE:HD2	2:4S:178:SER:HG	1.28	0.80
1:1G:261:PRO:O	2:4T:406:HIS:CD2	2.35	0.80
1:1N:2:ARG:HG3	2:4Z:72:PRO:CG	2.12	0.80
1:1N:248:LEU:HB2	2:4Z:224:TYR:HE2	1.46	0.80
2:1T:404:PHE:CE1	1:2G:261:PRO:HA	2.16	0.80
2:2V:72:PRO:CG	1:3J:2:ARG:HG3	2.10	0.80
2:2V:223:THR:HA	1:3J:325:PRO:CD	2.12	0.80
2:2W:404:PHE:CD2	1:3K:261:PRO:CB	2.62	0.80
2:2X:406:HIS:CG	1:3L:263:PRO:HD3	2.16	0.80
1:1E:349:THR:OG1	2:4R:184:PRO:HD3	1.79	0.80
1:1F:260:VAL:HG12	2:4S:406:HIS:HE1	1.44	0.80
1:1F:260:VAL:CA	2:4S:407:TRP:HE1	1.95	0.80
1:1L:258:ASN:HD21	2:4X:101:ASN:ND2	1.80	0.80
2:1V:406:HIS:CE1	1:2J:263:PRO:HB3	2.17	0.80
2:2S:404:PHE:CD1	1:3F:261:PRO:CA	2.64	0.80
2:2T:11:GLN:NE2	1:3G:249:ASN:N	2.13	0.80
1:1L:258:ASN:CG	2:4X:101:ASN:HD22	1.83	0.80
2:1V:179:ASP:O	1:2J:352:LYS:CD	2.30	0.80
2:1Z:214:PHE:CG	1:2N:326:LYS:HE2	2.15	0.80
2:2Q:100:GLY:CA	1:3D:253:THR:HB	2.11	0.80
2:2S:72:PRO:HD2	1:3F:2:ARG:CD	2.12	0.80
2:2T:224:TYR:OH	1:3G:248:LEU:HD22	1.82	0.80
1:1B:314:ALA:CB	2:4O:181:VAL:HG11	2.11	0.80
1:1F:326:LYS:HB2	2:4S:222:PRO:HG2	1.63	0.80
1:1G:332:ILE:CG2	2:4T:177:VAL:CG2	2.59	0.80
1:1K:329:ASN:ND2	2:4W:210:TYR:CD2	2.48	0.80
2:1Q:178:SER:CB	1:2D:349:THR:HB	2.11	0.80
2:1R:222:PRO:HD2	1:2E:326:LYS:HB2	1.63	0.80
2:1W:180:THR:CG2	1:2K:258:ASN:HD21	1.95	0.80
2:1W:181:VAL:CB	1:2K:258:ASN:CA	2.57	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2H:72:PRO:HG2	1:3A:2:ARG:HG3	1.64	0.80
2:2S:406:HIS:NE2	1:3F:263:PRO:N	2.29	0.80
2:2V:11:GLN:HE22	1:3J:249:ASN:H	0.84	0.80
2:2Y:222:PRO:HD2	1:3M:326:LYS:HB3	1.62	0.80
1:1A:262:TYR:CA	2:4H:406:HIS:CD2	2.64	0.79
1:1B:2:ARG:CG	2:4O:72:PRO:CG	2.60	0.79
1:1C:258:ASN:ND2	2:4P:180:THR:CG2	2.45	0.79
1:1C:346:TRP:O	2:4P:398:MET:HG2	1.82	0.79
1:1E:253:THR:HG22	2:4R:100:GLY:HA3	1.61	0.79
1:1G:348:PRO:HB2	2:4T:394:GLN:HG2	1.64	0.79
1:1J:329:ASN:HB2	2:4V:210:TYR:CE2	2.17	0.79
1:1K:260:VAL:HB	2:4W:407:TRP:CE2	2.17	0.79
1:1M:258:ASN:CG	2:4Y:101:ASN:ND2	2.33	0.79
1:1N:261:PRO:HB3	2:4Z:404:PHE:CZ	2.16	0.79
2:1T:100:GLY:HA2	1:2G:253:THR:HB	1.64	0.79
2:1T:404:PHE:CG	1:2G:261:PRO:HA	2.16	0.79
2:2S:407:TRP:HE1	1:3F:260:VAL:HB	1.47	0.79
2:2U:72:PRO:HD2	1:3I:2:ARG:HD3	1.63	0.79
1:1A:353:VAL:HB	2:4H:179:ASP:OD1	1.83	0.79
1:1L:248:LEU:C	2:4X:11:GLN:HE22	1.86	0.79
1:1N:329:ASN:ND2	2:4Z:210:TYR:CD2	2.38	0.79
2:1S:214:PHE:CG	1:2F:326:LYS:CE	2.64	0.79
2:1S:404:PHE:CE1	1:2F:261:PRO:HA	2.18	0.79
2:1X:207:GLU:CD	1:2L:329:ASN:HD21	1.84	0.79
2:2H:101:ASN:O	1:3A:257:THR:HG21	1.82	0.79
2:2S:403:ALA:HA	1:3F:262:TYR:CZ	2.17	0.79
2:2U:404:PHE:CE1	1:3I:261:PRO:N	2.50	0.79
2:2Z:179:ASP:O	1:3N:352:LYS:HD2	1.81	0.79
1:1D:2:ARG:HG3	2:4Q:72:PRO:HG3	1.63	0.79
1:1D:260:VAL:O	2:4Q:407:TRP:HD1	1.61	0.79
1:1D:349:THR:OG1	2:4Q:184:PRO:HD3	1.83	0.79
1:1F:346:TRP:HA	2:4S:397:ALA:C	2.01	0.79
1:1L:260:VAL:C	2:4X:407:TRP:HE1	1.86	0.79
1:1N:249:ASN:H	2:4Z:11:GLN:CD	1.85	0.79
2:1X:11:GLN:NE2	1:2L:249:ASN:HD22	1.78	0.79
2:1Z:180:THR:HG23	1:2N:258:ASN:HD21	1.47	0.79
2:2O:403:ALA:HB2	1:3B:262:TYR:CZ	2.18	0.79
2:2Z:394:GLN:HG2	1:3N:348:PRO:HG2	1.64	0.79
1:1C:1:MET:O	2:4P:96:GLN:OE1	2.01	0.79
1:1L:346:TRP:HZ3	2:4X:404:PHE:CD2	2.00	0.79
2:2P:397:ALA:O	1:3C:346:TRP:HB2	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2T:11:GLN:CD	1:3G:249:ASN:H	1.86	0.79
2:2X:178:SER:O	1:3L:351:PHE:O	2.00	0.79
2:2Y:221:THR:HA	1:3M:324:VAL:HG11	1.64	0.79
2:2Z:214:PHE:CD1	1:3N:326:LYS:HE3	2.17	0.79
1:1C:326:LYS:HA	2:4P:210:TYR:CD1	2.16	0.79
1:1G:260:VAL:CA	2:4T:407:TRP:HE1	1.95	0.79
1:1I:2:ARG:HD3	2:4U:72:PRO:HD2	0.86	0.79
1:1I:258:ASN:CG	2:4U:101:ASN:ND2	2.35	0.79
1:1M:247:ALA:O	2:4Y:15:GLN:NE2	2.16	0.79
1:1N:329:ASN:HB2	2:4Z:210:TYR:CE2	2.18	0.79
2:1H:181:VAL:H	1:2A:258:ASN:HD22	1.30	0.79
2:1U:404:PHE:HE2	1:2I:261:PRO:HB3	1.45	0.79
1:1A:257:THR:HG21	2:4H:101:ASN:O	1.81	0.79
1:1D:261:PRO:CB	2:4Q:404:PHE:N	2.45	0.79
1:1E:325:PRO:O	2:4R:210:TYR:OH	2.01	0.79
1:1E:332:ILE:CB	2:4R:177:VAL:CG2	2.59	0.79
1:1F:326:LYS:CB	2:4S:222:PRO:HG2	2.13	0.79
1:1J:351:PHE:O	2:4V:180:THR:CA	2.30	0.79
1:1M:248:LEU:CA	2:4Y:11:GLN:NE2	2.45	0.79
1:1M:261:PRO:HB3	2:4Y:404:PHE:CD2	2.16	0.79
2:1Z:100:GLY:HA3	1:2N:253:THR:CG2	2.12	0.79
2:2Q:176:LYS:HE2	1:3D:333:ALA:CB	2.11	0.79
5:2Q:501:GDP:C8	1:3D:248:LEU:HD13	2.18	0.79
2:2U:223:THR:HA	1:3I:325:PRO:CD	2.12	0.79
2:2Y:179:ASP:O	1:3M:352:LYS:HD2	1.83	0.79
1:1D:260:VAL:HG12	2:4Q:406:HIS:CE1	2.17	0.79
1:1D:346:TRP:O	2:4Q:398:MET:CA	2.31	0.79
1:1E:349:THR:HG21	2:4R:184:PRO:HG3	1.63	0.79
1:1F:346:TRP:O	2:4S:398:MET:HG3	1.82	0.79
1:1G:261:PRO:HB2	2:4T:404:PHE:H	1.47	0.79
1:1I:260:VAL:CB	2:4U:407:TRP:CZ2	2.65	0.79
1:1I:349:THR:HG21	2:4U:184:PRO:CD	2.13	0.79
1:1J:346:TRP:CE3	2:4V:403:ALA:HB3	2.18	0.79
1:1N:332:ILE:CG2	2:4Z:177:VAL:HG23	2.13	0.79
2:1V:180:THR:HG23	1:2J:258:ASN:HD21	1.47	0.79
2:2O:11:GLN:HE22	1:3B:249:ASN:H	1.25	0.79
2:2O:72:PRO:HG2	1:3B:2:ARG:HG3	1.65	0.79
2:2P:72:PRO:HD2	1:3C:2:ARG:HD3	1.65	0.79
2:2U:394:GLN:CG	1:3I:348:PRO:CG	2.58	0.79
1:1B:261:PRO:C	2:4O:404:PHE:H	1.85	0.79
1:1B:348:PRO:HG3	2:4O:394:GLN:CA	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:254:GLU:HG2	2:4R:101:ASN:H	1.48	0.79
1:1I:332:ILE:CG2	2:4U:177:VAL:HG23	2.12	0.79
1:1L:258:ASN:ND2	2:4X:101:ASN:ND2	2.30	0.79
2:1Y:222:PRO:O	1:2M:325:PRO:HD2	1.83	0.79
2:2Q:404:PHE:H	1:3D:261:PRO:C	1.86	0.79
1:1B:263:PRO:N	2:4O:406:HIS:CD2	2.51	0.79
1:1D:314:ALA:HB1	2:4Q:181:VAL:HG21	1.63	0.79
1:1E:348:PRO:HB2	2:4R:394:GLN:CG	2.12	0.79
1:1E:352:LYS:HD3	2:4R:101:ASN:ND2	1.98	0.79
1:1F:349:THR:OG1	2:4S:184:PRO:HD3	1.81	0.79
1:1G:314:ALA:CB	2:4T:181:VAL:HG11	2.13	0.79
1:1M:248:LEU:C	2:4Y:11:GLN:HE22	1.85	0.79
2:1X:181:VAL:CG2	1:2L:258:ASN:CA	2.60	0.79
2:2O:100:GLY:CA	1:3B:253:THR:CG2	2.61	0.79
2:2T:403:ALA:CB	1:3G:262:TYR:CZ	2.66	0.79
2:2Y:207:GLU:OE1	1:3M:329:ASN:ND2	2.15	0.79
2:2Z:176:LYS:HE2	1:3N:333:ALA:HB1	1.64	0.79
1:1C:324:VAL:HG13	2:4P:222:PRO:C	2.03	0.79
2:1Y:403:ALA:HB2	1:2M:262:TYR:CZ	2.18	0.79
2:2P:404:PHE:H	1:3C:261:PRO:C	1.84	0.79
2:2V:403:ALA:HA	1:3J:262:TYR:CZ	2.18	0.79
1:1D:263:PRO:HD3	2:4Q:406:HIS:CB	2.13	0.78
1:1G:349:THR:OG1	2:4T:184:PRO:HD2	1.82	0.78
1:1K:346:TRP:HH2	2:4W:404:PHE:CE2	1.99	0.78
1:1M:346:TRP:CH2	2:4Y:404:PHE:HE2	2.00	0.78
2:1S:221:THR:OG1	1:2F:324:VAL:CG1	2.31	0.78
2:2T:403:ALA:CA	1:3G:262:TYR:CZ	2.65	0.78
2:2Z:181:VAL:CG2	1:3N:258:ASN:O	2.30	0.78
1:1B:324:VAL:CG1	2:4O:222:PRO:O	2.31	0.78
2:1H:181:VAL:HG23	1:2A:258:ASN:HB3	1.65	0.78
2:1R:404:PHE:CZ	1:2E:261:PRO:HB3	2.18	0.78
2:1S:178:SER:HB3	1:2F:349:THR:HB	1.62	0.78
2:1Y:179:ASP:O	1:2M:352:LYS:CD	2.30	0.78
2:2O:394:GLN:HG2	1:3B:348:PRO:HG2	1.65	0.78
2:2U:100:GLY:HA2	1:3I:253:THR:CB	2.12	0.78
2:2W:181:VAL:CG2	1:3K:258:ASN:O	2.31	0.78
1:1F:258:ASN:ND2	2:4S:182:VAL:HG22	1.98	0.78
1:1G:260:VAL:HG12	2:4T:406:HIS:CE1	2.18	0.78
1:1M:248:LEU:CA	2:4Y:11:GLN:HE22	1.94	0.78
2:1R:404:PHE:CD1	1:2E:261:PRO:HA	2.17	0.78
2:1U:178:SER:HB3	1:2I:349:THR:CB	2.12	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2R:179:ASP:OD1	1:3E:353:VAL:HB	1.84	0.78
1:1D:348:PRO:HB2	2:4Q:394:GLN:CG	2.14	0.78
2:1H:180:THR:HG23	1:2A:258:ASN:HD21	1.49	0.78
2:2O:176:LYS:HE2	1:3B:333:ALA:CB	2.12	0.78
2:2P:177:VAL:HG23	1:3C:332:ILE:CG2	2.13	0.78
2:2Q:397:ALA:O	1:3D:346:TRP:HB2	1.83	0.78
1:1E:324:VAL:HG12	2:4R:222:PRO:O	1.83	0.78
1:1F:349:THR:OG1	2:4S:184:PRO:HD2	1.81	0.78
1:1G:332:ILE:HB	2:4T:177:VAL:HG21	1.64	0.78
1:1N:261:PRO:HA	2:4Z:404:PHE:HA	1.65	0.78
2:1S:181:VAL:CG2	1:2F:258:ASN:O	2.24	0.78
1:1C:248:LEU:HB2	2:4P:224:TYR:HE2	1.47	0.78
1:1C:326:LYS:HA	2:4P:210:TYR:CE1	2.19	0.78
1:1D:263:PRO:HA	2:4Q:406:HIS:CE1	2.18	0.78
1:1F:329:ASN:CB	2:4S:210:TYR:CE2	2.67	0.78
1:1F:349:THR:HG21	2:4S:184:PRO:HG3	1.66	0.78
1:1L:2:ARG:CD	2:4X:72:PRO:HD2	2.08	0.78
1:1L:257:THR:HB	2:4X:100:GLY:O	1.83	0.78
2:1V:181:VAL:CG2	1:2J:258:ASN:CA	2.61	0.78
2:1Y:11:GLN:NE2	1:2M:249:ASN:HD22	1.81	0.78
2:1Z:71:GLU:HB2	1:2N:2:ARG:HD3	1.65	0.78
2:2H:404:PHE:H	1:3A:261:PRO:C	1.86	0.78
2:2O:77:SER:HB3	1:3B:245:ASP:OD1	1.84	0.78
2:2S:222:PRO:HD2	1:3F:326:LYS:HB3	1.64	0.78
2:2W:221:THR:CA	1:3K:324:VAL:HG11	2.14	0.78
1:1B:261:PRO:CA	2:4O:404:PHE:CD1	2.66	0.78
1:1C:348:PRO:HG2	2:4P:394:GLN:CG	2.13	0.78
1:1E:314:ALA:HB1	2:4R:181:VAL:HG11	1.66	0.78
1:1I:261:PRO:HA	2:4U:404:PHE:CA	2.11	0.78
2:1W:224:TYR:CE2	1:2K:247:ALA:O	2.36	0.78
2:2R:100:GLY:HA2	1:3E:253:THR:CB	2.13	0.78
2:2W:404:PHE:CG	1:3K:261:PRO:CA	2.64	0.78
1:1C:263:PRO:HA	2:4P:406:HIS:CE1	2.18	0.78
1:1C:346:TRP:HB3	2:4P:397:ALA:O	1.84	0.78
1:1E:346:TRP:O	2:4R:398:MET:N	2.17	0.78
1:1E:346:TRP:O	2:4R:398:MET:HG3	1.82	0.78
1:1F:1:MET:O	2:4S:96:GLN:OE1	2.02	0.78
1:1F:258:ASN:ND2	2:4S:180:THR:HG23	1.98	0.78
1:1F:261:PRO:CB	2:4S:404:PHE:N	2.47	0.78
2:1U:180:THR:HG23	1:2I:258:ASN:HD21	1.48	0.78
2:1Y:181:VAL:CB	1:2M:258:ASN:CA	2.60	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2L:27:GLU:OE1	1:2L:243:ARG:NH1	2.17	0.78
2:2Q:404:PHE:CD1	1:3D:261:PRO:HA	2.18	0.78
2:2Y:221:THR:CA	1:3M:324:VAL:HG11	2.13	0.78
1:3L:27:GLU:OE1	1:3L:243:ARG:NH1	2.17	0.78
1:1A:27:GLU:OE1	1:1A:243:ARG:NH1	2.17	0.78
1:1B:353:VAL:CB	2:4O:179:ASP:OD1	2.32	0.78
1:1D:27:GLU:OE1	1:1D:243:ARG:NH1	2.17	0.78
1:1G:346:TRP:CH2	2:4T:404:PHE:CE2	2.72	0.78
1:1L:27:GLU:OE1	1:1L:243:ARG:NH1	2.17	0.78
1:1L:329:ASN:HB2	2:4X:210:TYR:CE2	2.19	0.78
1:2A:27:GLU:OE1	1:2A:243:ARG:NH1	2.17	0.78
1:2D:27:GLU:OE1	1:2D:243:ARG:NH1	2.17	0.78
1:2E:27:GLU:OE1	1:2E:243:ARG:NH1	2.17	0.78
2:2P:176:LYS:CE	1:3C:333:ALA:HB1	2.13	0.78
5:2U:501:GDP:C8	1:3I:248:LEU:HD13	2.18	0.78
2:2V:394:GLN:CG	1:3J:348:PRO:CG	2.60	0.78
2:2V:403:ALA:CA	1:3J:262:TYR:CZ	2.67	0.78
1:4D:27:GLU:OE1	1:4D:243:ARG:NH1	2.17	0.78
1:4E:27:GLU:OE1	1:4E:243:ARG:NH1	2.17	0.78
1:4I:27:GLU:OE1	1:4I:243:ARG:NH1	2.17	0.78
1:4L:27:GLU:OE1	1:4L:243:ARG:NH1	2.17	0.78
1:1A:260:VAL:O	2:4H:407:TRP:CD1	2.37	0.78
1:1A:346:TRP:CB	2:4H:397:ALA:O	2.32	0.78
1:1B:27:GLU:OE1	1:1B:243:ARG:NH1	2.17	0.78
1:1E:2:ARG:HD3	2:4R:72:PRO:HD2	0.79	0.78
1:1E:27:GLU:OE1	1:1E:243:ARG:NH1	2.17	0.78
1:1I:27:GLU:OE1	1:1I:243:ARG:NH1	2.17	0.78
1:1I:258:ASN:CG	2:4U:101:ASN:HD22	1.88	0.78
1:1L:326:LYS:CB	2:4X:222:PRO:HG2	2.14	0.78
1:1N:89:PRO:HD3	2:2Y:283:TYR:CE1	2.19	0.78
2:1P:214:PHE:HB2	1:2C:326:LYS:HE2	1.65	0.78
2:1Q:222:PRO:HD2	1:2D:326:LYS:CB	2.13	0.78
2:1S:100:GLY:HA2	1:2F:253:THR:CG2	2.14	0.78
1:2B:27:GLU:OE1	1:2B:243:ARG:NH1	2.17	0.78
1:2I:27:GLU:OE1	1:2I:243:ARG:NH1	2.17	0.78
2:2O:178:SER:O	1:3B:351:PHE:HB2	1.84	0.78
1:3A:27:GLU:OE1	1:3A:243:ARG:NH1	2.17	0.78
1:3B:27:GLU:OE1	1:3B:243:ARG:NH1	2.17	0.78
1:3D:27:GLU:OE1	1:3D:243:ARG:NH1	2.17	0.78
1:3E:27:GLU:OE1	1:3E:243:ARG:NH1	2.17	0.78
1:3I:27:GLU:OE1	1:3I:243:ARG:NH1	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4A:27:GLU:OE1	1:4A:243:ARG:NH1	2.17	0.78
1:4B:27:GLU:OE1	1:4B:243:ARG:NH1	2.17	0.78
1:1D:332:ILE:CB	2:4Q:177:VAL:CG2	2.63	0.77
1:1E:324:VAL:HG21	2:4R:221:THR:OG1	1.84	0.77
1:1F:326:LYS:HA	2:4S:210:TYR:CD1	2.19	0.77
1:1G:260:VAL:CB	2:4T:407:TRP:CZ2	2.67	0.77
1:1G:263:PRO:HD3	2:4T:406:HIS:CD2	2.18	0.77
1:1J:2:ARG:HG3	2:4V:72:PRO:CG	2.15	0.77
1:1J:346:TRP:HH2	2:4V:404:PHE:CE2	1.99	0.77
1:1K:258:ASN:CG	2:4W:101:ASN:HD22	1.86	0.77
1:1L:260:VAL:HB	2:4X:407:TRP:CZ2	2.19	0.77
1:1N:346:TRP:CH2	2:4Z:404:PHE:CE2	2.72	0.77
1:2M:27:GLU:OE1	1:2M:243:ARG:NH1	2.17	0.77
2:2O:224:TYR:OH	1:3B:248:LEU:HD22	1.83	0.77
1:4M:27:GLU:OE1	1:4M:243:ARG:NH1	2.17	0.77
1:1C:262:TYR:CE2	2:4P:403:ALA:HA	2.18	0.77
1:1E:248:LEU:CA	2:4R:11:GLN:NE2	2.46	0.77
1:1F:258:ASN:OD1	2:4S:101:ASN:CG	2.21	0.77
1:1F:349:THR:CG2	2:4S:184:PRO:HG3	2.13	0.77
1:1G:260:VAL:HG12	2:4T:406:HIS:HE1	1.48	0.77
1:1M:27:GLU:OE1	1:1M:243:ARG:NH1	2.17	0.77
2:1S:181:VAL:N	1:2F:258:ASN:ND2	2.31	0.77
2:1T:224:TYR:CE2	1:2G:248:LEU:HB2	2.19	0.77
2:1Y:221:THR:CB	1:2M:324:VAL:HG21	2.14	0.77
2:2Q:101:ASN:O	1:3D:257:THR:HG21	1.84	0.77
2:2Y:404:PHE:CD1	1:3M:261:PRO:CA	2.68	0.77
1:3M:27:GLU:OE1	1:3M:243:ARG:NH1	2.17	0.77
1:1D:349:THR:OG1	2:4Q:184:PRO:CG	2.31	0.77
1:1N:27:GLU:OE1	1:1N:243:ARG:NH1	2.17	0.77
1:2G:27:GLU:OE1	1:2G:243:ARG:NH1	2.17	0.77
2:2Z:404:PHE:CE2	1:3N:261:PRO:CB	2.61	0.77
1:1C:348:PRO:HG3	2:4P:394:GLN:CG	2.14	0.77
1:1E:253:THR:C	2:4R:100:GLY:CA	2.52	0.77
1:1F:263:PRO:CD	2:4S:406:HIS:CD2	2.67	0.77
1:1G:27:GLU:OE1	1:1G:243:ARG:NH1	2.17	0.77
1:1I:352:LYS:HD3	2:4U:101:ASN:ND2	1.99	0.77
1:1N:262:TYR:HA	2:4Z:406:HIS:NE2	1.97	0.77
1:2N:27:GLU:OE1	1:2N:243:ARG:NH1	2.17	0.77
2:2P:72:PRO:HD2	1:3C:2:ARG:CG	2.15	0.77
2:2Q:176:LYS:CE	1:3D:333:ALA:HB1	2.13	0.77
2:2T:178:SER:O	1:3G:351:PHE:CB	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3G:27:GLU:OE1	1:3G:243:ARG:NH1	2.17	0.77
1:3N:27:GLU:OE1	1:3N:243:ARG:NH1	2.17	0.77
1:4G:27:GLU:OE1	1:4G:243:ARG:NH1	2.17	0.77
1:1E:257:THR:HB	2:4R:100:GLY:O	1.83	0.77
1:1G:346:TRP:CH2	2:4T:403:ALA:HB1	2.20	0.77
1:1I:261:PRO:HB3	2:4U:404:PHE:CG	2.18	0.77
1:1K:27:GLU:OE1	1:1K:243:ARG:NH1	2.17	0.77
2:1T:221:THR:CA	1:2G:324:VAL:CG1	2.59	0.77
2:1W:180:THR:HG23	1:2K:258:ASN:HD21	1.48	0.77
2:1X:404:PHE:CE2	1:2L:261:PRO:HA	2.20	0.77
1:2C:27:GLU:OE1	1:2C:243:ARG:NH1	2.17	0.77
2:2R:176:LYS:HE2	1:3E:333:ALA:CB	2.15	0.77
2:2Y:404:PHE:CE1	1:3M:261:PRO:N	2.53	0.77
1:4C:27:GLU:OE1	1:4C:243:ARG:NH1	2.17	0.77
1:1C:27:GLU:OE1	1:1C:243:ARG:NH1	2.17	0.77
1:1D:332:ILE:HB	2:4Q:177:VAL:HG21	1.66	0.77
1:1E:329:ASN:ND2	2:4R:207:GLU:OE1	2.17	0.77
2:1U:406:HIS:CE1	1:2I:263:PRO:HB3	2.20	0.77
1:2K:27:GLU:OE1	1:2K:243:ARG:NH1	2.17	0.77
2:2R:223:THR:HA	1:3E:325:PRO:HD2	1.65	0.77
2:2T:181:VAL:HG21	1:3G:314:ALA:HB1	1.67	0.77
2:2T:404:PHE:CZ	1:3G:261:PRO:HB3	2.20	0.77
1:3C:27:GLU:OE1	1:3C:243:ARG:NH1	2.17	0.77
1:3K:27:GLU:OE1	1:3K:243:ARG:NH1	2.17	0.77
1:4K:27:GLU:OE1	1:4K:243:ARG:NH1	2.17	0.77
1:4N:27:GLU:OE1	1:4N:243:ARG:NH1	2.17	0.77
1:1E:120:ASP:OD2	1:1E:124:LYS:NZ	2.18	0.77
1:1G:254:GLU:N	2:4T:100:GLY:HA2	1.97	0.77
1:1G:329:ASN:CB	2:4T:210:TYR:CE2	2.67	0.77
1:1M:349:THR:HG21	2:4Y:184:PRO:HD3	1.66	0.77
1:2A:120:ASP:OD2	1:2A:124:LYS:NZ	2.18	0.77
1:2E:120:ASP:OD2	1:2E:124:LYS:NZ	2.18	0.77
2:2Q:72:PRO:HD2	1:3D:2:ARG:CG	2.13	0.77
2:2R:394:GLN:CG	1:3E:348:PRO:CG	2.62	0.77
2:2R:404:PHE:H	1:3E:261:PRO:C	1.88	0.77
2:2S:178:SER:O	1:3F:351:PHE:CB	2.31	0.77
1:3E:120:ASP:OD2	1:3E:124:LYS:NZ	2.18	0.77
1:4A:120:ASP:OD2	1:4A:124:LYS:NZ	2.18	0.77
1:4E:120:ASP:OD2	1:4E:124:LYS:NZ	2.18	0.77
1:4J:27:GLU:OE1	1:4J:243:ARG:NH1	2.17	0.77
1:1B:120:ASP:OD2	1:1B:124:LYS:NZ	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1D:120:ASP:OD2	1:1D:124:LYS:NZ	2.18	0.77
1:1F:348:PRO:CG	2:4S:394:GLN:CG	2.63	0.77
1:1G:2:ARG:CD	2:4T:72:PRO:CD	2.39	0.77
1:1J:258:ASN:CG	2:4V:101:ASN:HD22	1.87	0.77
1:1N:120:ASP:OD2	1:1N:124:LYS:NZ	2.18	0.77
2:1S:178:SER:HB3	1:2F:349:THR:CB	2.15	0.77
2:1T:100:GLY:HA2	1:2G:253:THR:CB	2.14	0.77
2:1T:222:PRO:HD2	1:2G:326:LYS:HB3	1.66	0.77
2:1W:404:PHE:CZ	1:2K:261:PRO:CA	2.68	0.77
2:1Z:178:SER:O	1:2N:351:PHE:O	2.03	0.77
1:2D:120:ASP:OD2	1:2D:124:LYS:NZ	2.18	0.77
2:2O:404:PHE:CD1	1:3B:261:PRO:HA	2.19	0.77
2:2U:181:VAL:HG21	1:3I:258:ASN:O	1.85	0.77
2:2X:406:HIS:NE2	1:3L:263:PRO:N	2.32	0.77
2:2Z:178:SER:O	1:3N:351:PHE:O	2.03	0.77
1:3A:120:ASP:OD2	1:3A:124:LYS:NZ	2.18	0.77
1:3D:120:ASP:OD2	1:3D:124:LYS:NZ	2.18	0.77
1:3J:27:GLU:OE1	1:3J:243:ARG:NH1	2.17	0.77
1:3N:120:ASP:OD2	1:3N:124:LYS:NZ	2.18	0.77
1:4N:120:ASP:OD2	1:4N:124:LYS:NZ	2.18	0.77
1:1A:120:ASP:OD2	1:1A:124:LYS:NZ	2.18	0.77
1:1J:27:GLU:OE1	1:1J:243:ARG:NH1	2.17	0.77
1:1K:258:ASN:ND2	2:4W:101:ASN:ND2	2.32	0.77
1:1M:332:ILE:HG22	2:4Y:177:VAL:HG23	1.65	0.77
1:1N:249:ASN:N	2:4Z:11:GLN:NE2	2.09	0.77
1:1N:253:THR:HG22	2:4Z:100:GLY:HA3	1.66	0.77
2:1Q:214:PHE:HB2	1:2D:326:LYS:HE2	1.67	0.77
1:2B:120:ASP:OD2	1:2B:124:LYS:NZ	2.18	0.77
1:2J:27:GLU:OE1	1:2J:243:ARG:NH1	2.17	0.77
1:2N:120:ASP:OD2	1:2N:124:LYS:NZ	2.18	0.77
2:2H:100:GLY:CA	1:3A:253:THR:HG22	2.15	0.77
2:2Q:72:PRO:HD2	1:3D:2:ARG:CD	2.15	0.77
2:2R:72:PRO:HD2	1:3E:2:ARG:CG	2.14	0.77
2:2V:222:PRO:HG2	1:3J:326:LYS:CB	2.08	0.77
2:2X:404:PHE:CD2	1:3L:261:PRO:CB	2.66	0.77
1:4D:120:ASP:OD2	1:4D:124:LYS:NZ	2.18	0.77
1:4K:120:ASP:OD2	1:4K:124:LYS:NZ	2.18	0.77
1:4L:120:ASP:OD2	1:4L:124:LYS:NZ	2.18	0.77
1:1E:314:ALA:HB1	2:4R:181:VAL:HG21	1.67	0.77
1:1F:332:ILE:CB	2:4S:177:VAL:HG23	2.15	0.77
1:1K:120:ASP:OD2	1:1K:124:LYS:NZ	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1K:258:ASN:HD21	2:4W:101:ASN:ND2	1.83	0.77
1:1N:261:PRO:HA	2:4Z:404:PHE:CG	2.20	0.77
1:2K:120:ASP:OD2	1:2K:124:LYS:NZ	2.18	0.77
1:2L:120:ASP:OD2	1:2L:124:LYS:NZ	2.18	0.77
1:2M:120:ASP:OD2	1:2M:124:LYS:NZ	2.18	0.77
2:2T:404:PHE:CG	1:3G:261:PRO:CA	2.68	0.77
2:2Y:176:LYS:HE2	1:3M:333:ALA:HB1	1.68	0.77
2:2Y:403:ALA:CB	1:3M:262:TYR:CZ	2.68	0.77
1:3B:120:ASP:OD2	1:3B:124:LYS:NZ	2.18	0.77
1:3K:120:ASP:OD2	1:3K:124:LYS:NZ	2.18	0.77
1:3M:120:ASP:OD2	1:3M:124:LYS:NZ	2.18	0.77
1:4B:120:ASP:OD2	1:4B:124:LYS:NZ	2.18	0.77
1:4M:120:ASP:OD2	1:4M:124:LYS:NZ	2.18	0.77
1:1A:2:ARG:HD3	2:4H:72:PRO:CD	2.14	0.76
1:1A:260:VAL:HB	2:4H:407:TRP:NE1	1.98	0.76
1:1D:324:VAL:HG12	2:4Q:222:PRO:O	1.84	0.76
1:1F:120:ASP:OD2	1:1F:124:LYS:NZ	2.18	0.76
1:1K:329:ASN:HB2	2:4W:210:TYR:CE2	2.20	0.76
1:1L:120:ASP:OD2	1:1L:124:LYS:NZ	2.18	0.76
1:1M:120:ASP:OD2	1:1M:124:LYS:NZ	2.18	0.76
2:1S:222:PRO:HD2	1:2F:326:LYS:HB3	1.66	0.76
2:1V:404:PHE:HE2	1:2J:261:PRO:HB3	1.42	0.76
1:2F:120:ASP:OD2	1:2F:124:LYS:NZ	2.18	0.76
2:2O:101:ASN:O	1:3B:257:THR:HG21	1.85	0.76
2:2O:397:ALA:O	1:3B:346:TRP:HB2	1.85	0.76
2:2S:100:GLY:CA	1:3F:253:THR:HG22	2.15	0.76
2:2U:177:VAL:HG23	1:3I:332:ILE:CG2	2.15	0.76
2:2U:394:GLN:CG	1:3I:348:PRO:HG3	2.14	0.76
1:3F:27:GLU:OE1	1:3F:243:ARG:NH1	2.17	0.76
1:3F:120:ASP:OD2	1:3F:124:LYS:NZ	2.18	0.76
1:3L:120:ASP:OD2	1:3L:124:LYS:NZ	2.18	0.76
1:4F:27:GLU:OE1	1:4F:243:ARG:NH1	2.17	0.76
1:4F:120:ASP:OD2	1:4F:124:LYS:NZ	2.18	0.76
1:4J:120:ASP:OD2	1:4J:124:LYS:NZ	2.18	0.76
1:1C:120:ASP:OD2	1:1C:124:LYS:NZ	2.18	0.76
1:1D:253:THR:C	2:4Q:100:GLY:CA	2.53	0.76
1:1D:435:VAL:HA	2:4Q:401:ARG:NH2	1.99	0.76
1:1F:27:GLU:OE1	1:1F:243:ARG:NH1	2.17	0.76
1:1F:262:TYR:CZ	2:4S:403:ALA:CA	2.68	0.76
1:1K:326:LYS:HB2	2:4W:222:PRO:HG2	1.66	0.76
1:1L:346:TRP:CH2	2:4X:404:PHE:HE2	2.03	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1N:260:VAL:O	2:4Z:407:TRP:CD1	2.38	0.76
1:1N:263:PRO:N	2:4Z:406:HIS:NE2	2.32	0.76
2:1Q:178:SER:HB2	1:2D:349:THR:HB	1.67	0.76
2:1S:221:THR:OG1	1:2F:324:VAL:HG11	1.85	0.76
2:1U:404:PHE:CZ	1:2I:261:PRO:HA	2.20	0.76
2:1V:11:GLN:HE22	1:2J:249:ASN:HB2	1.50	0.76
1:2F:27:GLU:OE1	1:2F:243:ARG:NH1	2.17	0.76
1:2J:120:ASP:OD2	1:2J:124:LYS:NZ	2.18	0.76
2:2V:403:ALA:HB2	1:3J:262:TYR:CE2	2.20	0.76
2:2W:176:LYS:HE2	1:3K:333:ALA:HB1	1.67	0.76
1:3J:120:ASP:OD2	1:3J:124:LYS:NZ	2.18	0.76
1:1B:262:TYR:CE2	2:4O:403:ALA:CB	2.69	0.76
1:1C:325:PRO:O	2:4P:210:TYR:CZ	2.38	0.76
1:1D:253:THR:CG2	2:4Q:100:GLY:HA3	2.16	0.76
1:1E:258:ASN:HD21	2:4R:180:THR:HG23	1.46	0.76
1:1F:346:TRP:CH2	2:4S:403:ALA:HB1	2.19	0.76
1:1K:325:PRO:HD2	2:4W:223:THR:HA	1.66	0.76
1:2C:120:ASP:OD2	1:2C:124:LYS:NZ	2.18	0.76
2:2O:176:LYS:CE	1:3B:333:ALA:HB1	2.14	0.76
2:2R:178:SER:O	1:3E:351:PHE:CB	2.32	0.76
2:2T:406:HIS:NE2	1:3G:262:TYR:C	2.39	0.76
2:2U:181:VAL:HG21	1:3I:314:ALA:HB1	1.66	0.76
2:2X:403:ALA:HB2	1:3L:262:TYR:CE2	2.20	0.76
1:3C:120:ASP:OD2	1:3C:124:LYS:NZ	2.18	0.76
1:4C:120:ASP:OD2	1:4C:124:LYS:NZ	2.18	0.76
1:1E:352:LYS:HA	2:4R:179:ASP:O	1.84	0.76
1:1G:2:ARG:HG3	2:4T:72:PRO:HG2	1.68	0.76
1:1J:120:ASP:OD2	1:1J:124:LYS:NZ	2.18	0.76
1:1L:346:TRP:HH2	2:4X:404:PHE:CE2	1.98	0.76
2:2P:221:THR:HG1	1:3C:324:VAL:HG21	1.50	0.76
2:2U:214:PHE:CD1	1:3I:326:LYS:HE3	2.20	0.76
2:2Y:222:PRO:CG	1:3M:326:LYS:HB2	2.15	0.76
1:1C:262:TYR:CE1	2:4P:402:LYS:O	2.38	0.76
1:1D:254:GLU:HG2	2:4Q:101:ASN:H	1.50	0.76
1:1G:332:ILE:HB	2:4T:177:VAL:CG2	2.14	0.76
2:2P:179:ASP:OD1	1:3C:353:VAL:HB	1.85	0.76
2:2W:77:SER:HB3	1:3K:245:ASP:OD1	1.83	0.76
2:2Y:176:LYS:O	1:3M:336:LYS:NZ	2.16	0.76
1:1C:253:THR:HB	2:4P:100:GLY:CA	2.15	0.76
1:1C:262:TYR:CE2	2:4P:403:ALA:CB	2.68	0.76
1:1D:329:ASN:HB2	2:4Q:210:TYR:HE2	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:247:ALA:O	2:4R:15:GLN:NE2	2.19	0.76
1:1E:349:THR:OG1	2:4R:184:PRO:CG	2.31	0.76
1:1I:2:ARG:CG	2:4U:72:PRO:CG	2.62	0.76
1:1N:258:ASN:ND2	2:4Z:101:ASN:ND2	2.33	0.76
2:2S:403:ALA:HB2	1:3F:262:TYR:OH	1.86	0.76
2:2W:223:THR:HA	1:3K:325:PRO:CD	2.16	0.76
1:1C:435:VAL:HA	2:4P:401:ARG:NH2	2.01	0.76
1:1I:348:PRO:HG3	2:4U:394:GLN:CA	2.16	0.76
1:1K:349:THR:CG2	2:4W:184:PRO:HD3	2.15	0.76
1:1M:346:TRP:CZ3	2:4Y:404:PHE:CD2	2.73	0.76
2:1P:406:HIS:CD2	1:2C:263:PRO:HD3	2.20	0.76
2:1T:222:PRO:CD	1:2G:326:LYS:HB2	2.13	0.76
2:2P:101:ASN:O	1:3C:257:THR:HG21	1.85	0.76
1:1B:352:LYS:HA	2:4O:179:ASP:O	1.86	0.76
1:1C:349:THR:CG2	2:4P:394:GLN:OE1	2.34	0.76
1:1E:324:VAL:HG13	2:4R:222:PRO:C	2.06	0.76
2:1T:404:PHE:CE1	1:2G:260:VAL:O	2.38	0.76
2:1U:224:TYR:HE2	1:2I:248:LEU:HB2	1.50	0.76
1:2I:120:ASP:OD2	1:2I:124:LYS:NZ	2.18	0.76
2:2O:179:ASP:O	1:3B:352:LYS:HD2	1.84	0.76
2:2T:100:GLY:HA2	1:3G:253:THR:CB	2.14	0.76
2:2T:100:GLY:CA	1:3G:253:THR:CG2	2.64	0.76
2:2Y:394:GLN:HG2	1:3M:348:PRO:HG2	1.66	0.76
1:3G:120:ASP:OD2	1:3G:124:LYS:NZ	2.18	0.76
1:4G:120:ASP:OD2	1:4G:124:LYS:NZ	2.18	0.76
1:4I:120:ASP:OD2	1:4I:124:LYS:NZ	2.18	0.76
1:1D:346:TRP:HA	2:4Q:397:ALA:C	2.07	0.76
1:1E:348:PRO:CG	2:4R:394:GLN:CA	2.59	0.76
1:1G:349:THR:HG21	2:4T:184:PRO:CD	2.15	0.76
1:1I:120:ASP:OD2	1:1I:124:LYS:NZ	2.18	0.76
1:1M:326:LYS:HE2	2:4Y:214:PHE:HB2	1.66	0.76
2:1H:100:GLY:HA2	1:2A:253:THR:CB	2.14	0.76
2:1X:180:THR:HG23	1:2L:258:ASN:HD21	1.50	0.76
2:1X:406:HIS:CD2	1:2L:263:PRO:HD3	2.21	0.76
1:2G:120:ASP:OD2	1:2G:124:LYS:NZ	2.18	0.76
1:3I:120:ASP:OD2	1:3I:124:LYS:NZ	2.18	0.76
1:1A:348:PRO:HG3	2:4H:394:GLN:CG	2.14	0.76
1:1B:348:PRO:HG3	2:4O:394:GLN:CB	2.15	0.76
1:1D:248:LEU:C	2:4Q:11:GLN:HE22	1.88	0.76
1:1D:260:VAL:CG1	2:4Q:407:TRP:HE1	1.99	0.76
1:1G:120:ASP:OD2	1:1G:124:LYS:NZ	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1J:329:ASN:ND2	2:4V:210:TYR:HD2	1.83	0.76
2:1H:181:VAL:CG2	1:2A:258:ASN:HB3	2.16	0.76
2:1R:214:PHE:HB2	1:2E:326:LYS:HE2	1.65	0.76
2:2S:100:GLY:HA2	1:3F:253:THR:CB	2.15	0.76
2:2W:403:ALA:HB2	1:3K:262:TYR:CE2	2.20	0.76
1:1C:262:TYR:C	2:4P:406:HIS:CD2	2.56	0.75
1:1C:263:PRO:CA	2:4P:406:HIS:CE1	2.68	0.75
1:1I:349:THR:CB	2:4U:184:PRO:HD3	2.16	0.75
1:1J:258:ASN:CG	2:4V:101:ASN:ND2	2.39	0.75
2:1V:224:TYR:HE2	1:2J:248:LEU:HB2	1.50	0.75
1:1A:314:ALA:HB2	2:4H:181:VAL:HG11	1.69	0.75
2:2W:72:PRO:CG	1:3K:2:ARG:HG3	2.16	0.75
1:1F:262:TYR:C	2:4S:406:HIS:CD2	2.49	0.75
1:1F:325:PRO:O	2:4S:210:TYR:OH	2.02	0.75
1:1G:261:PRO:CB	2:4T:404:PHE:H	1.99	0.75
1:1G:326:LYS:HB2	2:4T:222:PRO:HG2	1.67	0.75
2:1Y:221:THR:HA	1:2M:324:VAL:CG1	2.04	0.75
1:1C:351:PHE:O	2:4P:180:THR:CA	2.35	0.75
1:1D:346:TRP:O	2:4Q:398:MET:HG3	1.84	0.75
1:1D:351:PHE:O	2:4Q:180:THR:C	2.25	0.75
1:1G:346:TRP:HH2	2:4T:404:PHE:CE2	2.04	0.75
1:1N:346:TRP:CH2	2:4Z:404:PHE:HE2	2.03	0.75
2:1V:180:THR:CG2	1:2J:258:ASN:HD21	2.00	0.75
2:1Y:221:THR:OG1	1:2M:324:VAL:HG22	1.87	0.75
2:2P:404:PHE:CD1	1:3C:261:PRO:HA	2.20	0.75
2:2X:176:LYS:HE2	1:3L:333:ALA:HB1	1.69	0.75
1:1G:326:LYS:CB	2:4T:222:PRO:HG2	2.15	0.75
2:1S:404:PHE:CZ	1:2F:261:PRO:CA	2.70	0.75
2:1W:406:HIS:CE1	1:2K:263:PRO:HB3	2.21	0.75
2:1Z:181:VAL:CG2	1:2N:258:ASN:O	2.32	0.75
2:1Z:404:PHE:N	1:2N:261:PRO:O	2.16	0.75
2:2O:403:ALA:HB1	1:3B:261:PRO:HB2	1.67	0.75
2:2P:72:PRO:CG	1:3C:2:ARG:HG3	2.17	0.75
2:2P:394:GLN:HG2	1:3C:348:PRO:HG2	1.67	0.75
2:2R:176:LYS:CE	1:3E:333:ALA:HB1	2.15	0.75
2:2S:406:HIS:NE2	1:3F:262:TYR:C	2.40	0.75
2:2U:222:PRO:HD2	1:3I:326:LYS:CB	2.17	0.75
1:1D:254:GLU:HA	2:4Q:100:GLY:C	2.06	0.75
1:1D:258:ASN:HD21	2:4Q:180:THR:CG2	1.99	0.75
1:1D:348:PRO:CG	2:4Q:394:GLN:HB3	2.05	0.75
1:1E:347:CYS:HA	2:4R:398:MET:HG2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1F:262:TYR:N	2:4S:406:HIS:CD2	2.52	0.75
2:1U:222:PRO:CD	1:2I:326:LYS:HB2	2.17	0.75
2:1Y:404:PHE:CG	1:2M:261:PRO:HA	2.22	0.75
2:2H:176:LYS:CE	1:3A:333:ALA:HB1	2.16	0.75
2:2W:178:SER:O	1:3K:351:PHE:O	2.05	0.75
2:2Z:221:THR:HA	1:3N:324:VAL:HG11	1.68	0.75
1:1D:245:ASP:CG	2:4Q:77:SER:HB3	2.06	0.75
1:1I:346:TRP:HZ3	2:4U:404:PHE:CD2	2.02	0.75
1:1L:258:ASN:CG	2:4X:101:ASN:ND2	2.40	0.75
2:2P:403:ALA:HB1	1:3C:261:PRO:HB2	1.68	0.75
2:2R:404:PHE:HA	1:3E:261:PRO:HA	1.69	0.75
2:2S:72:PRO:HD2	1:3F:2:ARG:CG	2.16	0.75
1:1E:346:TRP:HB2	2:4R:398:MET:CA	2.16	0.75
1:1F:332:ILE:CB	2:4S:177:VAL:CG2	2.65	0.75
1:1F:346:TRP:CE3	2:4S:403:ALA:HB3	2.22	0.75
1:1I:249:ASN:N	2:4U:11:GLN:OE1	2.18	0.75
1:1J:258:ASN:ND2	2:4V:101:ASN:ND2	2.35	0.75
1:1J:329:ASN:ND2	2:4V:210:TYR:CD2	2.53	0.75
1:1L:261:PRO:C	2:4X:406:HIS:NE2	2.40	0.75
2:1O:406:HIS:CD2	1:2B:263:PRO:HD3	2.21	0.75
2:1Q:214:PHE:CD1	1:2D:326:LYS:CE	2.69	0.75
2:2R:406:HIS:NE2	1:3E:263:PRO:N	2.35	0.75
2:2Y:403:ALA:HB2	1:3M:262:TYR:CE2	2.21	0.75
1:1A:326:LYS:HB3	2:4H:222:PRO:HD2	1.69	0.75
1:1E:329:ASN:CB	2:4R:210:TYR:CE2	2.70	0.75
1:1J:346:TRP:HA	2:4V:397:ALA:O	1.86	0.75
1:1M:2:ARG:HG3	2:4Y:72:PRO:CG	2.17	0.75
2:1V:222:PRO:HD2	1:2J:326:LYS:CB	2.16	0.75
2:2O:407:TRP:HE1	1:3B:260:VAL:HB	1.52	0.75
2:2R:403:ALA:HB2	1:3E:262:TYR:CZ	2.21	0.75
2:2R:404:PHE:CA	1:3E:261:PRO:HA	2.17	0.75
2:2T:223:THR:HA	1:3G:325:PRO:CD	2.17	0.75
2:2T:403:ALA:HA	1:3G:262:TYR:CE1	2.20	0.75
1:1C:253:THR:HB	2:4P:100:GLY:HA2	1.69	0.74
1:1C:262:TYR:CE2	2:4P:403:ALA:HB2	2.22	0.74
1:1F:262:TYR:CE1	2:4S:402:LYS:O	2.39	0.74
1:1G:353:VAL:CG2	2:4T:179:ASP:OD1	2.35	0.74
1:1I:329:ASN:CB	2:4U:210:TYR:CE2	2.70	0.74
2:1X:182:VAL:CG2	1:2L:257:THR:HG22	2.17	0.74
2:2R:100:GLY:CA	1:3E:253:THR:HB	2.17	0.74
2:2R:397:ALA:O	1:3E:346:TRP:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2X:221:THR:HA	1:3L:324:VAL:HG11	1.67	0.74
1:1B:348:PRO:HB2	2:4O:394:GLN:HG2	1.69	0.74
1:1F:325:PRO:HG2	2:4S:224:TYR:CG	2.22	0.74
1:1G:245:ASP:CG	2:4T:77:SER:HB3	2.06	0.74
1:1G:258:ASN:OD1	2:4T:101:ASN:CB	2.35	0.74
1:1G:347:CYS:HA	2:4T:398:MET:HG2	1.66	0.74
1:1N:263:PRO:N	2:4Z:406:HIS:CE1	2.56	0.74
2:1S:214:PHE:CB	1:2F:326:LYS:HE2	2.16	0.74
2:2O:72:PRO:HD2	1:3B:2:ARG:CG	2.18	0.74
2:2S:404:PHE:CD2	1:3F:261:PRO:CB	2.68	0.74
1:1A:333:ALA:HB1	2:4H:176:LYS:CE	2.16	0.74
1:1F:260:VAL:HB	2:4S:407:TRP:CZ2	2.21	0.74
1:1I:2:ARG:HG3	2:4U:72:PRO:HG3	1.68	0.74
2:1T:404:PHE:CZ	1:2G:261:PRO:HB3	2.22	0.74
2:2X:403:ALA:HA	1:3L:262:TYR:CE1	2.23	0.74
1:1A:245:ASP:OD1	2:4H:77:SER:CB	2.33	0.74
1:1F:324:VAL:HG13	2:4S:222:PRO:O	1.87	0.74
1:1G:349:THR:O	2:4T:181:VAL:HA	1.88	0.74
1:1I:261:PRO:HB3	2:4U:404:PHE:CD2	2.23	0.74
1:1J:332:ILE:HG22	2:4V:177:VAL:HG23	1.69	0.74
2:1X:404:PHE:HE1	1:2L:260:VAL:N	1.85	0.74
2:2S:403:ALA:CA	1:3F:262:TYR:CZ	2.70	0.74
2:2X:404:PHE:CG	1:3L:261:PRO:CA	2.68	0.74
2:2Y:404:PHE:CD2	1:3M:261:PRO:CB	2.70	0.74
1:1E:263:PRO:N	2:4R:406:HIS:NE2	2.35	0.74
2:1S:178:SER:CB	1:2F:349:THR:CB	2.64	0.74
2:1Z:221:THR:OG1	1:2N:324:VAL:CG2	2.35	0.74
2:2S:224:TYR:OH	1:3F:248:LEU:HD22	1.88	0.74
2:2X:222:PRO:HD2	1:3L:326:LYS:CB	2.17	0.74
1:1A:261:PRO:HB3	2:4H:404:PHE:CG	2.21	0.74
1:1B:263:PRO:CA	2:4O:406:HIS:CE1	2.71	0.74
1:1E:260:VAL:HG12	2:4R:406:HIS:HE1	1.51	0.74
1:1G:346:TRP:O	2:4T:398:MET:HG3	1.87	0.74
1:1I:248:LEU:HD13	5:4U:501:GDP:H8	1.51	0.74
1:1I:333:ALA:HB1	2:4U:176:LYS:HE2	1.70	0.74
1:1J:260:VAL:CB	2:4V:407:TRP:CZ2	2.70	0.74
2:1U:404:PHE:CE1	1:2I:261:PRO:N	2.56	0.74
2:1Z:181:VAL:HB	1:2N:258:ASN:CA	2.17	0.74
2:2Z:403:ALA:HB2	1:3N:262:TYR:CE2	2.22	0.74
1:1I:329:ASN:HB2	2:4U:210:TYR:HE2	1.50	0.74
2:1S:222:PRO:CD	1:2F:326:LYS:HB2	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2O:224:TYR:CE2	1:3B:248:LEU:HB2	2.21	0.74
1:1B:261:PRO:CA	2:4O:404:PHE:CG	2.70	0.74
1:1F:248:LEU:CA	2:4S:11:GLN:HE22	1.97	0.74
1:1G:346:TRP:O	2:4T:398:MET:CB	2.35	0.74
1:1J:326:LYS:HA	2:4V:210:TYR:CE1	2.22	0.74
2:1W:11:GLN:NE2	1:2K:249:ASN:HD22	1.85	0.74
2:1X:207:GLU:OE1	1:2L:329:ASN:ND2	2.20	0.74
2:2P:403:ALA:HB2	1:3C:262:TYR:CZ	2.22	0.74
2:2Q:403:ALA:HB2	1:3D:262:TYR:CZ	2.23	0.74
2:2T:404:PHE:CE2	1:3G:261:PRO:CB	2.62	0.74
1:1G:2:ARG:CD	2:4T:72:PRO:CG	2.66	0.74
1:1I:326:LYS:CB	2:4U:222:PRO:HG2	2.18	0.74
1:1I:326:LYS:HB2	2:4U:222:PRO:HG2	1.70	0.74
2:2T:224:TYR:CE2	1:3G:248:LEU:HB2	2.17	0.74
2:2U:403:ALA:HB2	1:3I:262:TYR:CE2	2.22	0.74
2:2X:214:PHE:CG	1:3L:326:LYS:CE	2.70	0.74
1:1C:254:GLU:HB3	2:4P:101:ASN:HB2	1.67	0.74
1:1C:346:TRP:HA	2:4P:397:ALA:O	1.88	0.74
1:1F:349:THR:HG21	2:4S:184:PRO:HD3	1.70	0.74
2:1W:11:GLN:HE22	1:2K:249:ASN:HB2	1.52	0.74
2:2H:176:LYS:HE2	1:3A:333:ALA:CB	2.17	0.74
2:2Q:11:GLN:CD	1:3D:249:ASN:H	1.90	0.74
2:2S:404:PHE:HA	1:3F:261:PRO:HA	1.70	0.74
5:2V:501:GDP:C8	1:3J:248:LEU:HD13	2.23	0.74
1:1D:349:THR:CB	2:4Q:184:PRO:HD3	2.18	0.73
1:1F:324:VAL:HG12	2:4S:222:PRO:O	1.88	0.73
1:1I:263:PRO:HD3	2:4U:406:HIS:CD2	2.23	0.73
2:1W:404:PHE:HE2	1:2K:261:PRO:HB3	1.48	0.73
2:1X:404:PHE:CZ	1:2L:261:PRO:N	2.55	0.73
2:2O:221:THR:HG1	1:3B:324:VAL:HG21	1.53	0.73
5:2P:501:GDP:C8	1:3C:248:LEU:HD13	2.22	0.73
2:2T:72:PRO:HD2	1:3G:2:ARG:CD	2.17	0.73
1:1A:2:ARG:CG	2:4H:72:PRO:HG2	2.17	0.73
1:1A:333:ALA:CB	2:4H:176:LYS:HE2	2.15	0.73
1:1D:260:VAL:O	2:4Q:407:TRP:NE1	2.21	0.73
1:1D:346:TRP:O	2:4Q:398:MET:N	2.20	0.73
1:1G:351:PHE:O	2:4T:180:THR:C	2.25	0.73
2:1W:401:ARG:CB	1:2K:262:TYR:OH	2.36	0.73
2:1Z:207:GLU:CD	1:2N:329:ASN:HD21	1.91	0.73
2:2V:403:ALA:CB	1:3J:262:TYR:CE2	2.71	0.73
1:1B:349:THR:OG1	2:4O:184:PRO:CD	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:437:VAL:O	2:4P:401:ARG:NH1	2.20	0.73
1:1D:348:PRO:CG	2:4Q:394:GLN:CA	2.60	0.73
1:1D:349:THR:CG2	2:4Q:394:GLN:OE1	2.36	0.73
1:1D:349:THR:HG21	2:4Q:184:PRO:HG3	1.68	0.73
1:1E:349:THR:OG1	2:4R:184:PRO:HD2	1.88	0.73
1:1N:332:ILE:HG22	2:4Z:177:VAL:HG23	1.68	0.73
2:1T:180:THR:HG23	1:2G:258:ASN:HD21	1.52	0.73
2:1U:221:THR:HG1	1:2I:324:VAL:CG2	2.00	0.73
2:1X:179:ASP:OD2	1:2L:248:LEU:HD21	1.88	0.73
2:1Y:100:GLY:HA2	1:2M:253:THR:CG2	2.12	0.73
2:2P:181:VAL:HG21	1:3C:258:ASN:O	1.88	0.73
2:2Q:401:ARG:O	1:3D:262:TYR:OH	2.05	0.73
2:2T:403:ALA:HB2	1:3G:262:TYR:CE2	2.23	0.73
2:2Z:404:PHE:H	1:3N:261:PRO:C	1.89	0.73
1:1B:348:PRO:HG3	2:4O:394:GLN:CG	2.12	0.73
1:1C:261:PRO:CA	2:4P:404:PHE:CG	2.71	0.73
1:1D:261:PRO:HB3	2:4Q:404:PHE:CE2	2.23	0.73
1:1G:262:TYR:CE2	2:4T:403:ALA:HA	2.23	0.73
1:1I:253:THR:C	2:4U:100:GLY:HA2	2.08	0.73
1:1N:248:LEU:HD13	5:4Z:501:GDP:C8	2.24	0.73
2:1T:100:GLY:CA	1:2G:253:THR:HG21	2.18	0.73
2:1U:221:THR:OG1	1:2I:324:VAL:CG1	2.36	0.73
2:1V:222:PRO:HD2	1:2J:326:LYS:HB2	1.70	0.73
2:1W:11:GLN:NE2	1:2K:249:ASN:ND2	2.36	0.73
2:2P:224:TYR:OH	1:3C:248:LEU:HD22	1.88	0.73
2:2T:394:GLN:CG	1:3G:348:PRO:HG3	2.16	0.73
2:2U:406:HIS:NE2	1:3I:262:TYR:C	2.41	0.73
2:2Y:214:PHE:CG	1:3M:326:LYS:CE	2.70	0.73
1:1D:351:PHE:HD2	2:4Q:178:SER:HG	1.33	0.73
1:1F:349:THR:CG2	2:4S:184:PRO:CG	2.67	0.73
1:1I:348:PRO:CG	2:4U:394:GLN:HB3	2.17	0.73
1:1J:349:THR:OG1	2:4V:184:PRO:CD	2.37	0.73
1:1M:257:THR:HB	2:4Y:100:GLY:O	1.85	0.73
2:1T:181:VAL:HG21	1:2G:258:ASN:C	2.08	0.73
2:1T:404:PHE:CD2	1:2G:261:PRO:HA	2.22	0.73
2:2Q:404:PHE:CA	1:3D:261:PRO:HA	2.18	0.73
1:1A:329:ASN:HD22	2:4H:210:TYR:HD2	0.82	0.73
1:1B:2:ARG:CG	2:4O:72:PRO:HG2	2.18	0.73
1:1E:326:LYS:CA	2:4R:210:TYR:CE1	2.71	0.73
1:1E:346:TRP:HB3	2:4R:397:ALA:O	1.86	0.73
1:1F:258:ASN:OD1	2:4S:101:ASN:CB	2.34	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1I:329:ASN:ND2	2:4U:210:TYR:HD2	1.86	0.73
1:1K:326:LYS:CB	2:4W:222:PRO:HG2	2.19	0.73
2:1Q:214:PHE:CD1	1:2D:326:LYS:HE3	2.24	0.73
2:2P:100:GLY:CA	1:3C:253:THR:CG2	2.65	0.73
2:2X:179:ASP:O	1:3L:352:LYS:HD2	1.88	0.73
1:1B:2:ARG:CG	2:4O:72:PRO:CD	2.65	0.73
1:1B:261:PRO:CA	2:4O:404:PHE:CA	2.64	0.73
1:1I:348:PRO:CB	2:4U:394:GLN:HG2	2.19	0.73
1:1J:349:THR:HG21	2:4V:184:PRO:CD	2.16	0.73
1:1N:2:ARG:CG	2:4Z:72:PRO:HG2	2.18	0.73
2:1U:100:GLY:HA3	1:2I:253:THR:CG2	2.15	0.73
2:2U:403:ALA:CB	1:3I:262:TYR:CE2	2.71	0.73
1:1B:326:LYS:HE2	2:4O:214:PHE:CB	2.07	0.73
1:1C:346:TRP:O	2:4P:398:MET:HG3	1.88	0.73
1:1D:253:THR:HB	2:4Q:100:GLY:CA	2.19	0.73
1:1D:258:ASN:ND2	2:4Q:180:THR:CG2	2.50	0.73
1:1E:325:PRO:HG2	2:4R:224:TYR:CD1	2.23	0.73
1:1E:346:TRP:O	2:4R:398:MET:HA	1.87	0.73
1:1F:333:ALA:CB	2:4S:176:LYS:HE2	2.15	0.73
1:1G:263:PRO:HD3	2:4T:406:HIS:CB	2.18	0.73
1:1G:349:THR:OG1	2:4T:184:PRO:HD3	1.88	0.73
1:1J:262:TYR:HA	2:4V:406:HIS:HD2	1.45	0.73
1:1M:324:VAL:HG21	2:4Y:221:THR:OG1	1.89	0.73
2:1R:221:THR:CB	1:2E:324:VAL:HG11	2.19	0.73
2:1W:221:THR:HB	1:2K:324:VAL:HG21	1.69	0.73
2:2P:406:HIS:CG	1:3C:263:PRO:HD3	2.22	0.73
2:2S:11:GLN:NE2	1:3F:249:ASN:N	2.16	0.73
2:2S:404:PHE:CA	1:3F:261:PRO:HA	2.19	0.73
1:1E:260:VAL:CG1	2:4R:407:TRP:HE1	2.02	0.73
1:1L:346:TRP:CZ3	2:4X:404:PHE:HE2	2.04	0.73
2:1O:180:THR:HG23	1:2B:258:ASN:HD21	1.53	0.73
2:1O:181:VAL:H	1:2B:258:ASN:HD22	1.35	0.73
2:1O:422:GLU:OE2	2:1O:426:ASN:ND2	2.22	0.73
2:1T:404:PHE:CZ	1:2G:261:PRO:HA	2.23	0.73
2:1W:178:SER:CB	1:2K:349:THR:HB	2.19	0.73
2:1W:221:THR:CB	1:2K:324:VAL:HG11	2.18	0.73
2:2H:422:GLU:OE2	2:2H:426:ASN:ND2	2.22	0.73
2:2O:422:GLU:OE2	2:2O:426:ASN:ND2	2.22	0.73
2:2S:404:PHE:H	1:3F:261:PRO:C	1.91	0.73
2:2U:178:SER:O	1:3I:351:PHE:CB	2.37	0.73
1:1I:346:TRP:CZ3	2:4U:404:PHE:CE2	2.76	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1N:325:PRO:CD	2:4Z:223:THR:HA	2.17	0.73
2:1H:406:HIS:CD2	1:2A:263:PRO:HD3	2.23	0.73
2:1H:422:GLU:OE2	2:1H:426:ASN:ND2	2.22	0.73
2:1Y:180:THR:CG2	1:2M:258:ASN:HD21	2.00	0.73
2:2H:181:VAL:CG2	1:3A:258:ASN:O	2.36	0.73
2:2T:404:PHE:CE1	1:3G:261:PRO:N	2.57	0.73
2:3H:422:GLU:OE2	2:3H:426:ASN:ND2	2.22	0.73
2:3O:422:GLU:OE2	2:3O:426:ASN:ND2	2.22	0.73
2:4H:422:GLU:OE2	2:4H:426:ASN:ND2	2.22	0.73
2:4O:422:GLU:OE2	2:4O:426:ASN:ND2	2.22	0.73
1:1A:253:THR:C	2:4H:100:GLY:HA2	2.10	0.72
1:1E:248:LEU:HA	2:4R:11:GLN:NE2	2.03	0.72
1:1G:258:ASN:CG	2:4T:101:ASN:HD22	1.90	0.72
1:1J:326:LYS:HB2	2:4V:222:PRO:HG2	1.70	0.72
2:1P:181:VAL:H	1:2C:258:ASN:HD22	1.33	0.72
2:1U:179:ASP:O	1:2I:352:LYS:HD2	1.88	0.72
2:1Y:100:GLY:CA	1:2M:253:THR:CB	2.62	0.72
2:2Y:404:PHE:H	1:3M:261:PRO:C	1.91	0.72
2:4P:422:GLU:OE2	2:4P:426:ASN:ND2	2.22	0.72
1:1C:258:ASN:ND2	2:4P:182:VAL:HG22	2.05	0.72
1:1K:263:PRO:HD3	2:4W:406:HIS:CD2	2.23	0.72
2:1P:422:GLU:OE2	2:1P:426:ASN:ND2	2.22	0.72
2:1T:422:GLU:OE2	2:1T:426:ASN:ND2	2.22	0.72
2:2P:422:GLU:OE2	2:2P:426:ASN:ND2	2.22	0.72
2:3P:422:GLU:OE2	2:3P:426:ASN:ND2	2.22	0.72
1:1A:62:VAL:HG11	1:1N:283:HIS:HA	1.70	0.72
1:1C:349:THR:HG23	2:4P:394:GLN:OE1	1.90	0.72
1:1F:349:THR:CG2	2:4S:184:PRO:HD3	2.19	0.72
1:1J:283:HIS:HA	1:1K:62:VAL:HG11	1.70	0.72
1:1J:325:PRO:HD2	2:4V:223:THR:HA	1.71	0.72
2:1U:422:GLU:OE2	2:1U:426:ASN:ND2	2.22	0.72
2:1W:182:VAL:CG2	1:2K:257:THR:HG22	2.19	0.72
2:1Z:422:GLU:OE2	2:1Z:426:ASN:ND2	2.22	0.72
2:2H:403:ALA:HB2	1:3A:262:TYR:CE2	2.24	0.72
2:2H:403:ALA:HB1	1:3A:261:PRO:HB2	1.69	0.72
2:2O:177:VAL:HG23	1:3B:332:ILE:CG2	2.19	0.72
2:2S:181:VAL:HG21	1:3F:314:ALA:HB1	1.71	0.72
2:2S:207:GLU:OE1	1:3F:329:ASN:ND2	2.22	0.72
2:2T:422:GLU:OE2	2:2T:426:ASN:ND2	2.22	0.72
2:2Z:222:PRO:HD2	1:3N:326:LYS:HB3	1.70	0.72
2:2Z:422:GLU:OE2	2:2Z:426:ASN:ND2	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3A:62:VAL:HG11	1:3N:283:HIS:HA	1.70	0.72
1:3J:283:HIS:HA	1:3K:62:VAL:HG11	1.70	0.72
2:3T:422:GLU:OE2	2:3T:426:ASN:ND2	2.22	0.72
2:4T:422:GLU:OE2	2:4T:426:ASN:ND2	2.22	0.72
2:4Z:422:GLU:OE2	2:4Z:426:ASN:ND2	2.22	0.72
1:1A:260:VAL:CB	2:4H:407:TRP:HE1	2.02	0.72
1:1D:325:PRO:O	2:4Q:210:TYR:OH	2.08	0.72
1:1G:261:PRO:C	2:4T:406:HIS:CD2	2.63	0.72
1:1I:283:HIS:HA	1:1J:62:VAL:HG11	1.70	0.72
1:1M:332:ILE:CG2	2:4Y:177:VAL:HG23	2.20	0.72
1:1M:346:TRP:CZ3	2:4Y:404:PHE:HE2	2.08	0.72
2:1S:422:GLU:OE2	2:1S:426:ASN:ND2	2.22	0.72
1:2J:283:HIS:HA	1:2K:62:VAL:HG11	1.70	0.72
2:2Q:177:VAL:HG23	1:3D:332:ILE:HG21	1.72	0.72
2:2Q:178:SER:O	1:3D:351:PHE:CB	2.36	0.72
2:2S:422:GLU:OE2	2:2S:426:ASN:ND2	2.22	0.72
2:2Z:403:ALA:HB2	1:3N:262:TYR:OH	1.89	0.72
2:3S:422:GLU:OE2	2:3S:426:ASN:ND2	2.22	0.72
2:3Z:422:GLU:OE2	2:3Z:426:ASN:ND2	2.22	0.72
2:4S:422:GLU:OE2	2:4S:426:ASN:ND2	2.22	0.72
1:1B:258:ASN:ND2	2:4O:180:THR:CG2	2.48	0.72
1:1I:248:LEU:HD13	5:4U:501:GDP:C8	2.24	0.72
1:1M:261:PRO:HB3	2:4Y:404:PHE:CG	2.23	0.72
2:1V:181:VAL:CG2	1:2J:258:ASN:CB	2.58	0.72
2:1Y:404:PHE:HE1	1:2M:260:VAL:N	1.87	0.72
1:2I:283:HIS:HA	1:2J:62:VAL:HG11	1.70	0.72
2:2U:422:GLU:OE2	2:2U:426:ASN:ND2	2.22	0.72
2:2X:100:GLY:HA2	1:3L:253:THR:CG2	2.17	0.72
2:3U:422:GLU:OE2	2:3U:426:ASN:ND2	2.22	0.72
2:3Y:422:GLU:OE2	2:3Y:426:ASN:ND2	2.22	0.72
1:4A:62:VAL:HG11	1:4N:283:HIS:HA	1.70	0.72
1:4J:283:HIS:HA	1:4K:62:VAL:HG11	1.70	0.72
2:4U:422:GLU:OE2	2:4U:426:ASN:ND2	2.22	0.72
1:1A:2:ARG:CG	2:4H:72:PRO:CG	2.66	0.72
1:1K:260:VAL:HB	2:4W:407:TRP:NE1	2.03	0.72
1:1K:283:HIS:HA	1:1L:62:VAL:HG11	1.70	0.72
1:1N:351:PHE:CB	2:4Z:178:SER:O	2.31	0.72
2:1O:283:TYR:OH	2:1P:85:GLN:O	2.05	0.72
2:1Q:221:THR:OG1	1:2D:324:VAL:CG2	2.36	0.72
2:1T:404:PHE:CE1	1:2G:261:PRO:CA	2.73	0.72
2:1U:404:PHE:CE1	1:2I:261:PRO:HA	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1Y:422:GLU:OE2	2:1Y:426:ASN:ND2	2.22	0.72
1:2A:62:VAL:HG11	1:2N:283:HIS:HA	1.70	0.72
2:2H:178:SER:O	1:3A:351:PHE:HB2	1.90	0.72
2:2R:403:ALA:HA	1:3E:262:TYR:CZ	2.24	0.72
2:2Y:422:GLU:OE2	2:2Y:426:ASN:ND2	2.22	0.72
1:3I:283:HIS:HA	1:3J:62:VAL:HG11	1.70	0.72
2:3O:283:TYR:OH	2:3P:85:GLN:O	2.05	0.72
1:4D:283:HIS:HA	1:4E:62:VAL:HG11	1.70	0.72
2:4Y:422:GLU:OE2	2:4Y:426:ASN:ND2	2.22	0.72
1:1B:253:THR:HB	2:4O:100:GLY:HA2	1.69	0.72
1:1D:263:PRO:CA	2:4Q:406:HIS:CE1	2.71	0.72
1:1D:283:HIS:HA	1:1E:62:VAL:HG11	1.70	0.72
1:1I:260:VAL:CB	2:4U:407:TRP:NE1	2.46	0.72
1:1K:258:ASN:CG	2:4W:101:ASN:ND2	2.42	0.72
2:1R:221:THR:OG1	1:2E:324:VAL:HG11	1.88	0.72
2:1T:404:PHE:CE2	1:2G:261:PRO:CA	2.71	0.72
2:1V:422:GLU:OE2	2:1V:426:ASN:ND2	2.22	0.72
1:2K:283:HIS:HA	1:2L:62:VAL:HG11	1.70	0.72
2:2Q:394:GLN:CG	1:3D:348:PRO:CG	2.65	0.72
1:3K:283:HIS:HA	1:3L:62:VAL:HG11	1.70	0.72
1:4I:283:HIS:HA	1:4J:62:VAL:HG11	1.70	0.72
1:1A:261:PRO:CB	2:4H:404:PHE:CD2	2.69	0.72
1:1A:283:HIS:HA	1:1B:62:VAL:HG11	1.70	0.72
1:1E:333:ALA:HB1	2:4R:176:LYS:CE	2.09	0.72
1:1F:326:LYS:CA	2:4S:210:TYR:CE1	2.72	0.72
1:1G:325:PRO:HG2	2:4T:224:TYR:CG	2.25	0.72
2:1Q:283:TYR:OH	2:1R:85:GLN:O	2.05	0.72
1:2A:283:HIS:HA	1:2B:62:VAL:HG11	1.70	0.72
1:2D:283:HIS:HA	1:2E:62:VAL:HG11	1.70	0.72
2:2O:283:TYR:OH	2:2P:85:GLN:O	2.05	0.72
2:2Q:394:GLN:HG2	1:3D:348:PRO:HG2	1.71	0.72
2:2R:404:PHE:CD1	1:3E:261:PRO:CA	2.73	0.72
2:2S:176:LYS:O	1:3F:336:LYS:NZ	2.16	0.72
2:2W:403:ALA:CB	1:3K:262:TYR:CE2	2.73	0.72
2:2Y:406:HIS:CG	1:3M:263:PRO:HD3	2.24	0.72
2:2Z:100:GLY:CA	1:3N:253:THR:CB	2.68	0.72
1:3A:283:HIS:HA	1:3B:62:VAL:HG11	1.70	0.72
1:3D:283:HIS:HA	1:3E:62:VAL:HG11	1.70	0.72
2:3Q:283:TYR:OH	2:3R:85:GLN:O	2.05	0.72
1:4E:283:HIS:HA	1:4F:62:VAL:HG11	1.70	0.72
1:4K:283:HIS:HA	1:4L:62:VAL:HG11	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4V:422:GLU:OE2	2:4V:426:ASN:ND2	2.22	0.72
1:1B:262:TYR:CE2	2:4O:403:ALA:HB2	2.24	0.72
1:1D:261:PRO:HB2	2:4Q:404:PHE:H	1.53	0.72
1:1E:262:TYR:OH	2:4R:403:ALA:N	2.22	0.72
1:1E:283:HIS:HA	1:1F:62:VAL:HG11	1.70	0.72
1:1G:283:HIS:HA	1:1I:62:VAL:HG11	1.70	0.72
1:1I:348:PRO:HG3	2:4U:394:GLN:CB	2.20	0.72
1:1K:346:TRP:CH2	2:4W:404:PHE:HE2	2.06	0.72
1:1M:351:PHE:O	2:4Y:180:THR:N	2.23	0.72
2:1P:100:GLY:HA2	1:2C:253:THR:HB	1.71	0.72
2:1Q:422:GLU:OE2	2:1Q:426:ASN:ND2	2.22	0.72
2:1W:224:TYR:HE2	1:2K:248:LEU:HB2	1.53	0.72
2:1W:422:GLU:OE2	2:1W:426:ASN:ND2	2.22	0.72
2:1X:404:PHE:HE1	1:2L:260:VAL:H	1.38	0.72
2:1X:422:GLU:OE2	2:1X:426:ASN:ND2	2.22	0.72
1:2C:283:HIS:HA	1:2D:62:VAL:HG11	1.70	0.72
1:2E:283:HIS:HA	1:2F:62:VAL:HG11	1.70	0.72
1:2G:283:HIS:HA	1:2I:62:VAL:HG11	1.70	0.72
2:2H:397:ALA:O	1:3A:346:TRP:HB2	1.90	0.72
2:2P:177:VAL:HG23	1:3C:332:ILE:HG21	1.72	0.72
2:2Q:283:TYR:OH	2:2R:85:GLN:O	2.05	0.72
2:2Q:422:GLU:OE2	2:2Q:426:ASN:ND2	2.22	0.72
2:2S:406:HIS:CD2	1:3F:262:TYR:HA	2.25	0.72
2:2T:406:HIS:CD2	1:3G:262:TYR:HA	2.25	0.72
2:2V:422:GLU:OE2	2:2V:426:ASN:ND2	2.22	0.72
2:2X:422:GLU:OE2	2:2X:426:ASN:ND2	2.22	0.72
1:3C:283:HIS:HA	1:3D:62:VAL:HG11	1.70	0.72
1:3G:283:HIS:HA	1:3I:62:VAL:HG11	1.70	0.72
2:3V:422:GLU:OE2	2:3V:426:ASN:ND2	2.22	0.72
2:3X:422:GLU:OE2	2:3X:426:ASN:ND2	2.22	0.72
1:4C:283:HIS:HA	1:4D:62:VAL:HG11	1.70	0.72
1:4G:283:HIS:HA	1:4I:62:VAL:HG11	1.70	0.72
2:4O:283:TYR:OH	2:4P:85:GLN:O	2.05	0.72
2:4Q:422:GLU:OE2	2:4Q:426:ASN:ND2	2.22	0.72
1:1D:257:THR:HG21	2:4Q:101:ASN:O	1.89	0.72
1:1G:262:TYR:C	2:4T:406:HIS:CE1	2.63	0.72
1:1M:333:ALA:HB1	2:4Y:176:LYS:HE2	1.72	0.72
2:1H:214:PHE:CB	1:2A:326:LYS:HE2	2.20	0.72
2:1V:404:PHE:CE1	1:2J:261:PRO:N	2.56	0.72
2:1Y:180:THR:HG23	1:2M:258:ASN:HD21	1.53	0.72
2:2S:179:ASP:OD1	1:3F:353:VAL:HB	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2T:72:PRO:HD2	1:3G:2:ARG:CG	2.20	0.72
2:2W:422:GLU:OE2	2:2W:426:ASN:ND2	2.22	0.72
2:2X:178:SER:O	1:3L:351:PHE:HB2	1.88	0.72
2:3Q:422:GLU:OE2	2:3Q:426:ASN:ND2	2.22	0.72
2:3W:422:GLU:OE2	2:3W:426:ASN:ND2	2.22	0.72
1:4A:283:HIS:HA	1:4B:62:VAL:HG11	1.70	0.72
2:4X:422:GLU:OE2	2:4X:426:ASN:ND2	2.22	0.72
1:1C:283:HIS:HA	1:1D:62:VAL:HG11	1.70	0.71
1:1C:332:ILE:CB	2:4P:177:VAL:HG23	2.20	0.71
1:1N:346:TRP:HH2	2:4Z:404:PHE:CE2	2.07	0.71
2:1R:422:GLU:OE2	2:1R:426:ASN:ND2	2.22	0.71
2:1T:100:GLY:HA3	1:2G:253:THR:HG21	1.72	0.71
2:1W:181:VAL:CG2	1:2K:258:ASN:C	2.44	0.71
1:2L:283:HIS:HA	1:2M:62:VAL:HG11	1.70	0.71
2:2H:77:SER:HB3	1:3A:245:ASP:OD1	1.90	0.71
2:2H:85:GLN:O	2:2Z:283:TYR:OH	2.05	0.71
2:2R:422:GLU:OE2	2:2R:426:ASN:ND2	2.22	0.71
2:2S:403:ALA:HB2	1:3F:262:TYR:CE2	2.25	0.71
2:2Y:223:THR:HA	1:3M:325:PRO:HD2	1.71	0.71
1:3E:283:HIS:HA	1:3F:62:VAL:HG11	1.70	0.71
2:3H:85:GLN:O	2:3Z:283:TYR:OH	2.05	0.71
1:4F:283:HIS:HA	1:4G:62:VAL:HG11	1.70	0.71
2:4Q:283:TYR:OH	2:4R:85:GLN:O	2.05	0.71
2:4W:422:GLU:OE2	2:4W:426:ASN:ND2	2.22	0.71
1:1A:253:THR:CG2	2:4H:100:GLY:HA3	2.21	0.71
1:1C:262:TYR:HH	2:4P:401:ARG:C	1.92	0.71
1:1D:247:ALA:O	2:4Q:15:GLN:OE1	2.07	0.71
1:1I:261:PRO:C	2:4U:406:HIS:CD2	2.62	0.71
1:1J:326:LYS:CB	2:4V:222:PRO:HG2	2.20	0.71
1:1J:346:TRP:O	2:4V:398:MET:HA	1.90	0.71
1:1L:283:HIS:HA	1:1M:62:VAL:HG11	1.70	0.71
1:1N:261:PRO:HB3	2:4Z:404:PHE:CG	2.25	0.71
1:2F:283:HIS:HA	1:2G:62:VAL:HG11	1.70	0.71
2:2H:100:GLY:CA	1:3A:253:THR:CB	2.66	0.71
2:2R:222:PRO:HG2	1:3E:326:LYS:CB	2.17	0.71
2:2Y:100:GLY:CA	1:3M:253:THR:HB	2.14	0.71
1:3L:283:HIS:HA	1:3M:62:VAL:HG11	1.70	0.71
2:3R:422:GLU:OE2	2:3R:426:ASN:ND2	2.22	0.71
1:4L:283:HIS:HA	1:4M:62:VAL:HG11	1.70	0.71
2:4R:422:GLU:OE2	2:4R:426:ASN:ND2	2.22	0.71
1:1F:346:TRP:O	2:4S:398:MET:CB	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1J:261:PRO:HB3	2:4V:404:PHE:CG	2.26	0.71
1:1N:2:ARG:HD3	2:4Z:72:PRO:CD	2.19	0.71
1:1N:258:ASN:HD21	2:4Z:101:ASN:ND2	1.87	0.71
2:1H:221:THR:HA	1:2A:324:VAL:HG11	1.71	0.71
2:1T:224:TYR:HE2	1:2G:248:LEU:HB2	1.54	0.71
2:1Y:224:TYR:CE2	1:2M:248:LEU:HB2	2.24	0.71
2:2P:179:ASP:O	1:3C:352:LYS:HD2	1.90	0.71
2:2P:221:THR:OG1	1:3C:324:VAL:CG2	2.31	0.71
2:2T:101:ASN:ND2	1:3G:258:ASN:CG	2.43	0.71
1:3F:283:HIS:HA	1:3G:62:VAL:HG11	1.70	0.71
2:4H:85:GLN:O	2:4Z:283:TYR:OH	2.05	0.71
1:1D:348:PRO:HG3	2:4Q:394:GLN:HG2	1.71	0.71
1:1D:349:THR:CG2	2:4Q:184:PRO:HG3	2.20	0.71
1:1F:283:HIS:HA	1:1G:62:VAL:HG11	1.70	0.71
1:1F:325:PRO:CB	2:4S:224:TYR:CE1	2.74	0.71
1:1J:353:VAL:HB	2:4V:179:ASP:OD1	1.90	0.71
2:1U:222:PRO:HD2	1:2I:326:LYS:HB3	1.73	0.71
2:2S:404:PHE:CG	1:3F:261:PRO:CA	2.73	0.71
2:2T:407:TRP:HE1	1:3G:260:VAL:HB	1.56	0.71
1:4B:283:HIS:HA	1:4C:62:VAL:HG11	1.70	0.71
1:1B:283:HIS:HA	1:1C:62:VAL:HG11	1.70	0.71
1:1C:260:VAL:CG1	2:4P:407:TRP:HE1	2.02	0.71
1:1C:329:ASN:ND2	2:4P:210:TYR:HD2	1.86	0.71
1:1D:262:TYR:CE2	2:4Q:403:ALA:CB	2.74	0.71
1:1D:352:LYS:HD3	2:4Q:101:ASN:HD21	1.55	0.71
1:1F:348:PRO:HB2	2:4S:394:GLN:CG	2.19	0.71
1:1G:346:TRP:CZ3	2:4T:404:PHE:CD2	2.79	0.71
1:1J:346:TRP:O	2:4V:398:MET:CA	2.38	0.71
1:1J:351:PHE:O	2:4V:180:THR:N	2.23	0.71
1:1L:260:VAL:HB	2:4X:407:TRP:CE2	2.26	0.71
2:1Q:404:PHE:CD1	1:2D:261:PRO:HA	2.25	0.71
2:1V:182:VAL:HG21	1:2J:257:THR:CG2	2.20	0.71
2:1W:207:GLU:CD	1:2K:329:ASN:HD21	1.93	0.71
2:2H:214:PHE:CD1	1:3A:326:LYS:HE3	2.25	0.71
2:2Q:403:ALA:HB1	1:3D:261:PRO:HB2	1.72	0.71
2:2U:101:ASN:ND2	1:3I:258:ASN:CG	2.43	0.71
2:2W:403:ALA:CA	1:3K:262:TYR:CZ	2.72	0.71
1:3B:283:HIS:HA	1:3C:62:VAL:HG11	1.70	0.71
1:1C:325:PRO:HD2	2:4P:223:THR:HA	1.72	0.71
1:1D:348:PRO:HG3	2:4Q:394:GLN:CG	2.20	0.71
1:1G:326:LYS:HE2	2:4T:214:PHE:HB2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1I:258:ASN:ND2	2:4U:101:ASN:ND2	2.39	0.71
1:1L:332:ILE:HG22	2:4X:177:VAL:HG23	1.72	0.71
1:1M:260:VAL:C	2:4Y:407:TRP:HE1	1.93	0.71
2:1R:214:PHE:CG	1:2E:326:LYS:HE2	2.25	0.71
2:1R:222:PRO:HD2	1:2E:326:LYS:HB3	1.71	0.71
1:2B:283:HIS:HA	1:2C:62:VAL:HG11	1.70	0.71
2:2R:403:ALA:HB2	1:3E:262:TYR:CE2	2.26	0.71
2:2V:181:VAL:HG21	1:3J:314:ALA:HB1	1.70	0.71
2:2V:394:GLN:CG	1:3J:348:PRO:HG3	2.15	0.71
2:2X:404:PHE:CE1	1:3L:260:VAL:C	2.64	0.71
1:1A:263:PRO:N	2:4H:406:HIS:CE1	2.58	0.71
1:1E:263:PRO:HA	2:4R:406:HIS:CE1	2.26	0.71
1:1I:349:THR:OG1	2:4U:184:PRO:HD2	1.90	0.71
2:1S:214:PHE:CE1	1:2F:326:LYS:HE3	2.25	0.71
2:1W:11:GLN:HE22	1:2K:249:ASN:CB	2.04	0.71
2:1Z:100:GLY:HA3	1:2N:253:THR:HG21	1.70	0.71
2:2O:100:GLY:CA	1:3B:253:THR:HG22	2.20	0.71
2:2V:181:VAL:CG2	1:3J:258:ASN:O	2.38	0.71
2:2V:221:THR:CA	1:3J:324:VAL:HG11	2.21	0.71
2:2W:394:GLN:CG	1:3K:348:PRO:CG	2.64	0.71
2:2Z:176:LYS:CE	1:3N:333:ALA:HB1	2.20	0.71
1:1C:349:THR:OG1	2:4P:184:PRO:HD3	1.90	0.71
1:1E:258:ASN:HD22	2:4R:182:VAL:HG22	1.53	0.71
1:1F:263:PRO:N	2:4S:406:HIS:CD2	2.59	0.71
2:1T:404:PHE:CE2	1:2G:261:PRO:HA	2.26	0.71
2:1V:181:VAL:CA	1:2J:258:ASN:HD22	2.03	0.71
2:1X:182:VAL:CG2	1:2L:257:THR:CG2	2.68	0.71
2:2O:403:ALA:HB2	1:3B:262:TYR:CE2	2.25	0.71
2:2V:177:VAL:HG23	1:3J:332:ILE:CG2	2.21	0.71
2:2X:214:PHE:CD1	1:3L:326:LYS:CE	2.73	0.71
2:2Y:404:PHE:CG	1:3M:261:PRO:CA	2.72	0.71
1:1A:332:ILE:CG2	2:4H:177:VAL:CG2	2.69	0.71
1:1D:261:PRO:HD3	2:4Q:404:PHE:CE1	2.26	0.71
1:1D:262:TYR:OH	2:4Q:403:ALA:N	2.24	0.71
1:1E:247:ALA:O	2:4R:15:GLN:OE1	2.07	0.71
1:1F:2:ARG:CD	2:4S:72:PRO:CG	2.69	0.71
1:1F:314:ALA:HB1	2:4S:181:VAL:HG21	1.72	0.71
1:1J:258:ASN:HD21	2:4V:101:ASN:ND2	1.89	0.71
2:1R:403:ALA:HB2	1:2E:262:TYR:CZ	2.24	0.71
2:2S:100:GLY:CA	1:3F:253:THR:CG2	2.68	0.71
1:1A:325:PRO:CD	2:4H:223:THR:HA	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:248:LEU:CD1	5:4O:501:GDP:H8	2.04	0.71
1:1B:261:PRO:CB	2:4O:404:PHE:CD2	2.64	0.71
1:1B:348:PRO:HG2	2:4O:394:GLN:CG	2.18	0.71
1:1D:353:VAL:CG2	2:4Q:179:ASP:OD1	2.38	0.71
1:1G:352:LYS:HD3	2:4T:101:ASN:HD21	1.55	0.71
1:1M:260:VAL:HB	2:4Y:407:TRP:NE1	2.06	0.71
2:1T:221:THR:OG1	1:2G:324:VAL:HG22	1.89	0.71
2:2P:401:ARG:O	1:3C:262:TYR:OH	2.06	0.71
2:2P:403:ALA:HB2	1:3C:262:TYR:CE2	2.26	0.71
2:2R:224:TYR:OH	1:3E:248:LEU:HD22	1.91	0.71
2:2Z:404:PHE:CD2	1:3N:261:PRO:CB	2.74	0.71
1:1C:261:PRO:HA	2:4P:404:PHE:CB	2.21	0.70
1:1E:260:VAL:CA	2:4R:407:TRP:HE1	2.03	0.70
1:1F:261:PRO:CA	2:4S:404:PHE:H	2.03	0.70
1:1G:261:PRO:C	2:4T:406:HIS:NE2	2.43	0.70
1:1I:2:ARG:CD	2:4U:72:PRO:CG	2.68	0.70
1:1J:263:PRO:HD3	2:4V:406:HIS:CD2	2.25	0.70
2:1V:100:GLY:CA	1:2J:253:THR:HG22	2.20	0.70
2:1W:182:VAL:CG2	1:2K:257:THR:CG2	2.69	0.70
2:2R:401:ARG:O	1:3E:262:TYR:OH	2.09	0.70
2:2T:403:ALA:CB	1:3G:262:TYR:CE2	2.73	0.70
2:2X:77:SER:HB3	1:3L:245:ASP:OD1	1.90	0.70
2:2X:394:GLN:HG2	1:3L:348:PRO:HG2	1.70	0.70
2:2Z:221:THR:CA	1:3N:324:VAL:HG11	2.20	0.70
2:4X:283:TYR:OH	2:4Y:85:GLN:O	2.05	0.70
1:1C:324:VAL:HG12	2:4P:222:PRO:O	1.91	0.70
1:1E:248:LEU:HD11	5:4R:501:GDP:H5”	1.73	0.70
1:1K:2:ARG:HG3	2:4W:72:PRO:CG	2.22	0.70
1:1N:88:HIS:CD2	2:2Y:283:TYR:HB3	2.25	0.70
2:1S:180:THR:HG23	1:2F:258:ASN:HD21	1.56	0.70
2:1T:221:THR:CB	1:2G:324:VAL:HG21	2.21	0.70
2:1T:404:PHE:CZ	1:2G:261:PRO:CB	2.74	0.70
2:1Y:404:PHE:CE1	1:2M:260:VAL:O	2.44	0.70
2:1Z:406:HIS:CD2	1:2N:263:PRO:HD3	2.26	0.70
2:2H:178:SER:O	1:3A:351:PHE:O	2.09	0.70
2:2S:403:ALA:CB	1:3F:262:TYR:CZ	2.74	0.70
2:2Y:406:HIS:NE2	1:3M:263:PRO:N	2.38	0.70
2:2Z:404:PHE:CE1	1:3N:261:PRO:N	2.59	0.70
1:1G:349:THR:CG2	2:4T:184:PRO:CG	2.70	0.70
1:1I:245:ASP:OD1	2:4U:77:SER:CB	2.25	0.70
1:1J:2:ARG:CD	2:4V:72:PRO:HG2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1M:2:ARG:HG3	2:4Y:72:PRO:HG2	1.72	0.70
2:1S:181:VAL:HG23	1:2F:258:ASN:HB3	1.73	0.70
2:2V:221:THR:C	1:3J:324:VAL:HG11	2.12	0.70
2:2X:404:PHE:H	1:3L:261:PRO:C	1.94	0.70
2:2Y:404:PHE:CE1	1:3M:260:VAL:C	2.64	0.70
1:4A:399:TYR:O	1:4A:402:ARG:NH1	2.24	0.70
1:1A:348:PRO:HG3	2:4H:394:GLN:HA	1.74	0.70
1:1F:346:TRP:HB2	2:4S:398:MET:CA	2.18	0.70
1:1J:260:VAL:CB	2:4V:407:TRP:HZ2	2.05	0.70
1:2A:399:TYR:O	1:2A:402:ARG:NH1	2.24	0.70
1:2G:399:TYR:O	1:2G:402:ARG:NH1	2.24	0.70
1:3A:399:TYR:O	1:3A:402:ARG:NH1	2.24	0.70
1:4G:399:TYR:O	1:4G:402:ARG:NH1	2.24	0.70
1:1A:262:TYR:CE1	2:4H:403:ALA:HA	2.26	0.70
1:1A:399:TYR:O	1:1A:402:ARG:NH1	2.24	0.70
1:1D:261:PRO:HA	2:4Q:404:PHE:CG	2.26	0.70
1:1D:324:VAL:CG1	2:4Q:222:PRO:C	2.60	0.70
1:1G:399:TYR:O	1:1G:402:ARG:NH1	2.24	0.70
1:1J:399:TYR:O	1:1J:402:ARG:NH1	2.24	0.70
1:1M:261:PRO:O	2:4Y:406:HIS:CD2	2.45	0.70
1:1N:348:PRO:CG	2:4Z:394:GLN:CG	2.69	0.70
2:1R:224:TYR:OH	1:2E:248:LEU:HD22	1.92	0.70
2:1U:100:GLY:CA	1:2I:253:THR:HG22	2.22	0.70
2:1V:283:TYR:OH	2:1W:85:GLN:O	2.05	0.70
2:2S:176:LYS:CE	1:3F:333:ALA:HB1	2.18	0.70
2:2V:178:SER:HB3	1:3J:349:THR:HA	1.72	0.70
2:2X:72:PRO:CG	1:3L:2:ARG:HG3	2.21	0.70
1:3G:399:TYR:O	1:3G:402:ARG:NH1	2.24	0.70
1:1E:324:VAL:CG1	2:4R:222:PRO:C	2.60	0.70
1:1I:346:TRP:CA	2:4U:397:ALA:O	2.40	0.70
2:1S:404:PHE:CE1	1:2F:260:VAL:C	2.65	0.70
2:2H:72:PRO:HD2	1:3A:2:ARG:CG	2.21	0.70
2:2R:397:ALA:O	1:3E:346:TRP:CB	2.40	0.70
2:2U:11:GLN:CD	1:3I:249:ASN:H	1.92	0.70
1:1C:332:ILE:HB	2:4P:177:VAL:CG2	2.22	0.70
1:1C:399:TYR:O	1:1C:402:ARG:NH1	2.24	0.70
1:1N:336:LYS:NZ	2:4Z:176:LYS:O	2.16	0.70
2:1S:404:PHE:CG	1:2F:261:PRO:HA	2.27	0.70
2:1X:181:VAL:CB	1:2L:258:ASN:O	2.40	0.70
1:2C:399:TYR:O	1:2C:402:ARG:NH1	2.24	0.70
2:2Q:404:PHE:HA	1:3D:261:PRO:HA	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3V:283:TYR:OH	2:3W:85:GLN:O	2.05	0.70
1:4C:399:TYR:O	1:4C:402:ARG:NH1	2.24	0.70
1:1C:261:PRO:CA	2:4P:404:PHE:CD1	2.75	0.70
1:1F:262:TYR:C	2:4S:406:HIS:CE1	2.65	0.70
1:1F:346:TRP:O	2:4S:398:MET:N	2.25	0.70
1:1F:346:TRP:HH2	2:4S:404:PHE:CE2	2.10	0.70
1:1G:254:GLU:HA	2:4T:100:GLY:C	2.11	0.70
1:1I:260:VAL:CB	2:4U:407:TRP:HZ2	2.04	0.70
1:1I:263:PRO:CD	2:4U:406:HIS:CG	2.72	0.70
1:1I:346:TRP:O	2:4U:398:MET:CB	2.39	0.70
1:1M:346:TRP:HZ3	2:4Y:404:PHE:CD2	2.09	0.70
1:1N:348:PRO:HG3	2:4Z:394:GLN:CG	2.22	0.70
2:1H:181:VAL:N	1:2A:258:ASN:HD22	1.85	0.70
2:1Z:403:ALA:HB1	1:2N:261:PRO:HB2	1.72	0.70
2:2R:406:HIS:NE2	1:3E:262:TYR:C	2.45	0.70
2:2T:176:LYS:CE	1:3G:333:ALA:HB1	2.22	0.70
2:2T:404:PHE:H	1:3G:261:PRO:C	1.94	0.70
2:2V:283:TYR:OH	2:2W:85:GLN:O	2.05	0.70
1:3C:399:TYR:O	1:3C:402:ARG:NH1	2.24	0.70
1:1C:2:ARG:CG	2:4P:72:PRO:HG2	2.19	0.70
1:1E:346:TRP:CH2	2:4R:403:ALA:HB1	2.27	0.70
1:1M:314:ALA:HB1	2:4Y:181:VAL:HG21	1.74	0.70
2:1Q:214:PHE:CD1	1:2D:326:LYS:HE2	2.27	0.70
2:1S:403:ALA:HB2	1:2F:262:TYR:OH	1.90	0.70
2:1T:224:TYR:HD2	1:2G:247:ALA:O	1.74	0.70
2:2Q:224:TYR:OH	1:3D:248:LEU:HD22	1.91	0.70
2:2W:221:THR:C	1:3K:324:VAL:HG11	2.12	0.70
2:2Z:214:PHE:CG	1:3N:326:LYS:CE	2.74	0.70
1:1A:262:TYR:OH	2:4H:403:ALA:HB2	1.91	0.70
1:1I:2:ARG:CD	2:4U:72:PRO:HG2	2.20	0.70
1:1J:261:PRO:CA	2:4V:404:PHE:HA	2.21	0.70
1:1N:326:LYS:HB2	2:4Z:222:PRO:CG	2.15	0.70
2:2Q:100:GLY:CA	1:3D:253:THR:CG2	2.69	0.70
2:2V:222:PRO:CG	1:3J:326:LYS:CB	2.69	0.70
1:1B:324:VAL:HG13	2:4O:222:PRO:O	1.91	0.69
1:1C:314:ALA:HB1	2:4P:181:VAL:HG11	1.74	0.69
1:1F:332:ILE:HG21	2:4S:177:VAL:CG2	2.22	0.69
1:1I:260:VAL:CA	2:4U:407:TRP:HE1	2.04	0.69
2:1U:178:SER:HB2	1:2I:349:THR:HB	1.73	0.69
2:1V:221:THR:HB	1:2J:324:VAL:HG21	1.74	0.69
5:2O:501:GDP:C8	1:3B:248:LEU:HD13	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2W:214:PHE:CG	1:3K:326:LYS:CE	2.75	0.69
2:4V:283:TYR:OH	2:4W:85:GLN:O	2.05	0.69
1:1C:326:LYS:HE2	2:4P:214:PHE:CB	2.12	0.69
1:1I:325:PRO:HD2	2:4U:223:THR:HA	1.74	0.69
1:1N:399:TYR:O	1:1N:402:ARG:NH1	2.24	0.69
2:1R:404:PHE:CE1	1:2E:261:PRO:HA	2.27	0.69
1:2N:399:TYR:O	1:2N:402:ARG:NH1	2.24	0.69
2:2W:214:PHE:CD1	1:3K:326:LYS:CE	2.76	0.69
2:2W:403:ALA:HA	1:3K:262:TYR:CZ	2.26	0.69
2:2Z:178:SER:O	1:3N:351:PHE:HB2	1.92	0.69
2:2Z:404:PHE:CD1	1:3N:261:PRO:CA	2.74	0.69
1:4M:399:TYR:O	1:4M:402:ARG:NH1	2.24	0.69
1:1D:349:THR:HG23	2:4Q:394:GLN:OE1	1.92	0.69
1:1G:2:ARG:CG	2:4T:72:PRO:CD	2.71	0.69
1:1G:348:PRO:HD2	2:4T:398:MET:HG3	1.73	0.69
1:1K:346:TRP:CE3	2:4W:403:ALA:HB3	2.27	0.69
1:1L:2:ARG:HG3	2:4X:72:PRO:CG	2.22	0.69
1:1L:441:GLU:O	2:4X:400:ARG:NH1	2.26	0.69
2:1Q:404:PHE:CZ	1:2D:261:PRO:HB3	2.26	0.69
2:1R:178:SER:O	1:2E:351:PHE:O	2.10	0.69
2:1Z:100:GLY:CA	1:2N:253:THR:CG2	2.69	0.69
1:2M:399:TYR:O	1:2M:402:ARG:NH1	2.24	0.69
2:2P:72:PRO:HD2	1:3C:2:ARG:CD	2.22	0.69
2:2P:404:PHE:CA	1:3C:261:PRO:HA	2.22	0.69
2:2S:397:ALA:O	1:3F:346:TRP:HB2	1.92	0.69
1:3M:399:TYR:O	1:3M:402:ARG:NH1	2.24	0.69
1:3N:399:TYR:O	1:3N:402:ARG:NH1	2.24	0.69
1:1B:324:VAL:HG13	2:4O:222:PRO:C	2.12	0.69
1:1F:254:GLU:HG2	2:4S:101:ASN:H	1.57	0.69
1:1G:254:GLU:HG2	2:4T:101:ASN:N	2.07	0.69
1:1I:262:TYR:C	2:4U:406:HIS:CE1	2.65	0.69
2:2O:72:PRO:CG	1:3B:2:ARG:HG3	2.22	0.69
2:2R:100:GLY:CA	1:3E:253:THR:HG22	2.20	0.69
2:2S:100:GLY:CA	1:3F:253:THR:HB	2.23	0.69
2:2T:181:VAL:HG21	1:3G:258:ASN:O	1.93	0.69
2:2W:221:THR:HA	1:3K:324:VAL:HG11	1.74	0.69
1:4N:399:TYR:O	1:4N:402:ARG:NH1	2.24	0.69
1:1B:263:PRO:HA	2:4O:406:HIS:CE1	2.27	0.69
1:1B:399:TYR:O	1:1B:402:ARG:NH1	2.24	0.69
1:1D:348:PRO:CG	2:4Q:394:GLN:HA	2.10	0.69
1:1G:329:ASN:ND2	2:4T:210:TYR:HD2	1.89	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1J:329:ASN:CB	2:4V:210:TYR:CE2	2.75	0.69
1:1J:346:TRP:CH2	2:4V:404:PHE:HE2	2.11	0.69
1:1K:332:ILE:HG22	2:4W:177:VAL:HG23	1.74	0.69
1:1M:263:PRO:N	2:4Y:406:HIS:CE1	2.60	0.69
1:1M:399:TYR:O	1:1M:402:ARG:NH1	2.24	0.69
2:1V:404:PHE:CD1	1:2J:261:PRO:HA	2.26	0.69
1:2L:399:TYR:O	1:2L:402:ARG:NH1	2.24	0.69
2:2H:221:THR:HA	1:3A:324:VAL:HG11	1.74	0.69
2:2P:224:TYR:CE2	1:3C:248:LEU:HB2	2.25	0.69
2:2S:224:TYR:CE2	1:3F:248:LEU:HB2	2.22	0.69
2:2U:178:SER:HB3	1:3I:349:THR:HA	1.74	0.69
2:2Y:176:LYS:CE	1:3M:333:ALA:HB1	2.22	0.69
1:4E:399:TYR:O	1:4E:402:ARG:NH1	2.24	0.69
1:1C:261:PRO:HD3	2:4P:404:PHE:CE1	2.27	0.69
1:1D:262:TYR:CE2	2:4Q:403:ALA:CA	2.76	0.69
1:1E:348:PRO:CB	2:4R:394:GLN:CG	2.60	0.69
1:1F:253:THR:C	2:4S:100:GLY:CA	2.60	0.69
1:1L:399:TYR:O	1:1L:402:ARG:NH1	2.24	0.69
2:1S:100:GLY:CA	1:2F:253:THR:CG2	2.71	0.69
1:2E:399:TYR:O	1:2E:402:ARG:NH1	2.24	0.69
2:2O:177:VAL:HG23	1:3B:332:ILE:HG21	1.73	0.69
2:2Q:397:ALA:O	1:3D:346:TRP:CB	2.40	0.69
2:2S:221:THR:OG1	1:3F:324:VAL:CG2	2.30	0.69
2:2Y:401:ARG:HH22	1:3M:434:GLU:C	1.91	0.69
2:2Z:77:SER:HB3	1:3N:245:ASP:OD1	1.93	0.69
1:3L:399:TYR:O	1:3L:402:ARG:NH1	2.24	0.69
1:4L:399:TYR:O	1:4L:402:ARG:NH1	2.24	0.69
1:1D:435:VAL:CA	2:4Q:401:ARG:NH2	2.56	0.69
1:1G:260:VAL:CB	2:4T:407:TRP:CE2	2.72	0.69
2:1Y:406:HIS:CD2	1:2M:263:PRO:HD3	2.27	0.69
1:2K:399:TYR:O	1:2K:402:ARG:NH1	2.24	0.69
2:2Q:403:ALA:HB2	1:3D:262:TYR:CE2	2.26	0.69
1:3B:399:TYR:O	1:3B:402:ARG:NH1	2.24	0.69
1:3E:399:TYR:O	1:3E:402:ARG:NH1	2.24	0.69
1:4K:399:TYR:O	1:4K:402:ARG:NH1	2.24	0.69
1:1A:332:ILE:HG21	2:4H:177:VAL:HG23	1.74	0.69
1:1E:325:PRO:HG2	2:4R:224:TYR:CG	2.27	0.69
1:1E:325:PRO:CB	2:4R:224:TYR:CE1	2.76	0.69
1:1E:332:ILE:HB	2:4R:177:VAL:HG23	1.72	0.69
1:1E:399:TYR:O	1:1E:402:ARG:NH1	2.24	0.69
1:1F:325:PRO:HG2	2:4S:224:TYR:CD1	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:262:TYR:N	2:4T:406:HIS:CD2	2.52	0.69
1:1J:439:SER:OG	2:4V:401:ARG:HG2	1.92	0.69
1:1K:351:PHE:O	2:4W:180:THR:CA	2.40	0.69
1:1K:399:TYR:O	1:1K:402:ARG:NH1	2.24	0.69
1:1M:261:PRO:HB3	2:4Y:404:PHE:CE2	2.27	0.69
1:1N:351:PHE:O	2:4Z:180:THR:N	2.25	0.69
2:1P:283:TYR:OH	2:1Q:85:GLN:O	2.05	0.69
2:1U:101:ASN:HB2	1:2I:254:GLU:HG2	1.75	0.69
2:1U:181:VAL:CB	1:2I:258:ASN:HA	2.20	0.69
2:1W:224:TYR:HH	1:2K:248:LEU:HD22	1.58	0.69
2:1W:404:PHE:HE1	1:2K:260:VAL:N	1.91	0.69
2:1X:394:GLN:HG2	1:2L:348:PRO:HG2	1.73	0.69
2:1Z:180:THR:CG2	1:2N:258:ASN:HD21	2.06	0.69
1:2B:399:TYR:O	1:2B:402:ARG:NH1	2.24	0.69
2:2O:72:PRO:HD2	1:3B:2:ARG:HD3	1.75	0.69
2:2P:283:TYR:OH	2:2Q:85:GLN:O	2.05	0.69
2:2R:100:GLY:CA	1:3E:253:THR:CG2	2.70	0.69
2:2R:177:VAL:HG23	1:3E:332:ILE:HG21	1.72	0.69
2:2R:222:PRO:HD2	1:3E:326:LYS:HB3	1.73	0.69
2:2S:403:ALA:HA	1:3F:262:TYR:CE1	2.28	0.69
2:2V:72:PRO:HD2	1:3J:2:ARG:HD3	1.73	0.69
2:2X:403:ALA:CB	1:3L:262:TYR:CE2	2.76	0.69
1:3K:399:TYR:O	1:3K:402:ARG:NH1	2.24	0.69
1:1A:348:PRO:HG2	2:4H:394:GLN:HB3	1.74	0.69
1:1G:262:TYR:CZ	2:4T:403:ALA:CA	2.75	0.69
1:1G:349:THR:CG2	2:4T:184:PRO:HG3	2.23	0.69
1:1I:346:TRP:CH2	2:4U:403:ALA:HB1	2.27	0.69
1:1N:262:TYR:CE1	2:4Z:403:ALA:HA	2.26	0.69
2:1R:403:ALA:HB2	1:2E:262:TYR:OH	1.93	0.69
2:1Y:394:GLN:HG2	1:2M:348:PRO:HG2	1.75	0.69
2:2Q:221:THR:OG1	1:3D:324:VAL:CG2	2.34	0.69
5:2W:501:GDP:C8	1:3K:248:LEU:HD13	2.28	0.69
2:2Y:221:THR:HG1	1:3M:324:VAL:HG21	1.57	0.69
2:2Z:176:LYS:HE2	1:3N:333:ALA:CB	2.22	0.69
2:3P:283:TYR:OH	2:3Q:85:GLN:O	2.05	0.69
1:1A:260:VAL:O	2:4H:407:TRP:NE1	2.24	0.69
1:1F:260:VAL:CB	2:4S:407:TRP:CZ2	2.76	0.69
1:1G:346:TRP:HA	2:4T:397:ALA:C	2.12	0.69
1:1K:439:SER:OG	2:4W:401:ARG:HG2	1.92	0.69
2:2U:404:PHE:H	1:3I:261:PRO:C	1.96	0.69
2:2V:406:HIS:NE2	1:3J:263:PRO:CD	2.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4B:399:TYR:O	1:4B:402:ARG:NH1	2.24	0.69
1:4I:399:TYR:O	1:4I:402:ARG:NH1	2.24	0.69
2:4P:283:TYR:OH	2:4Q:85:GLN:O	2.05	0.69
1:1A:262:TYR:HA	2:4H:406:HIS:HD2	1.51	0.68
1:1A:348:PRO:CG	2:4H:394:GLN:CB	2.71	0.68
1:1E:261:PRO:C	2:4R:404:PHE:H	1.96	0.68
1:1E:262:TYR:N	2:4R:406:HIS:CD2	2.61	0.68
1:1G:2:ARG:CD	2:4T:72:PRO:HG2	2.23	0.68
1:1M:260:VAL:HB	2:4Y:407:TRP:CZ2	2.28	0.68
1:1N:257:THR:HG21	2:4Z:101:ASN:O	1.93	0.68
2:1Q:221:THR:HA	1:2D:324:VAL:HG11	1.75	0.68
2:1Y:71:GLU:HB2	1:2M:2:ARG:HD3	1.73	0.68
1:2I:399:TYR:O	1:2I:402:ARG:NH1	2.24	0.68
2:2O:179:ASP:OD1	1:3B:353:VAL:HB	1.92	0.68
1:1F:325:PRO:O	2:4S:210:TYR:CZ	2.45	0.68
2:2S:403:ALA:CB	1:3F:262:TYR:CE2	2.76	0.68
2:2W:404:PHE:CE1	1:3K:260:VAL:C	2.66	0.68
2:2Y:404:PHE:CZ	1:3M:261:PRO:HB3	2.25	0.68
1:1A:253:THR:HG22	2:4H:100:GLY:CA	2.21	0.68
1:1D:346:TRP:HB2	2:4Q:398:MET:CA	2.21	0.68
1:1F:258:ASN:HD22	2:4S:182:VAL:HG22	1.57	0.68
1:1F:346:TRP:CB	2:4S:398:MET:HA	2.20	0.68
1:1J:2:ARG:CG	2:4V:72:PRO:CG	2.70	0.68
1:1J:346:TRP:HZ3	2:4V:404:PHE:HD2	1.41	0.68
2:1P:180:THR:HG23	1:2C:258:ASN:HD21	1.58	0.68
2:2V:404:PHE:CZ	1:3J:261:PRO:CB	2.74	0.68
2:2Y:178:SER:O	1:3M:351:PHE:HB2	1.93	0.68
2:2Y:214:PHE:CD1	1:3M:326:LYS:CE	2.76	0.68
1:3I:399:TYR:O	1:3I:402:ARG:NH1	2.24	0.68
1:1B:253:THR:HG22	2:4O:100:GLY:CA	2.21	0.68
1:1D:262:TYR:N	2:4Q:406:HIS:NE2	2.41	0.68
1:1E:348:PRO:CG	2:4R:394:GLN:HA	2.11	0.68
1:1E:435:VAL:HA	2:4R:401:ARG:NH2	2.08	0.68
1:1F:262:TYR:OH	2:4S:403:ALA:N	2.26	0.68
1:4D:399:TYR:O	1:4D:402:ARG:NH1	2.24	0.68
1:1A:332:ILE:HG21	2:4H:177:VAL:CG2	2.23	0.68
1:1B:253:THR:CB	2:4O:100:GLY:HA2	2.24	0.68
1:1D:325:PRO:HG2	2:4Q:224:TYR:CD1	2.27	0.68
1:1D:329:ASN:CB	2:4Q:210:TYR:CD2	2.76	0.68
1:1E:254:GLU:HA	2:4R:100:GLY:O	1.93	0.68
1:1F:260:VAL:C	2:4S:407:TRP:HE1	1.96	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1F:329:ASN:ND2	2:4S:210:TYR:HD2	1.92	0.68
1:1I:348:PRO:CG	2:4U:394:GLN:CB	2.72	0.68
1:1I:399:TYR:O	1:1I:402:ARG:NH1	2.24	0.68
1:1K:437:VAL:O	2:4W:401:ARG:NH1	2.21	0.68
1:1L:349:THR:CG2	2:4X:184:PRO:HD3	2.23	0.68
1:1N:249:ASN:H	2:4Z:11:GLN:HE22	0.76	0.68
2:1Q:221:THR:CA	1:2D:324:VAL:HG11	2.23	0.68
2:1U:221:THR:HG1	1:2I:324:VAL:HG21	1.55	0.68
2:1Y:404:PHE:CE2	1:2M:261:PRO:CB	2.76	0.68
1:2D:399:TYR:O	1:2D:402:ARG:NH1	2.24	0.68
2:2R:404:PHE:CD2	1:3E:261:PRO:CB	2.73	0.68
2:2S:176:LYS:HE2	1:3F:333:ALA:CB	2.20	0.68
2:2S:177:VAL:HG23	1:3F:332:ILE:HG21	1.74	0.68
2:2T:214:PHE:CD1	1:3G:326:LYS:HE3	2.29	0.68
2:2W:394:GLN:HG2	1:3K:348:PRO:HG2	1.74	0.68
1:1C:260:VAL:HB	2:4P:407:TRP:CE2	2.27	0.68
1:1D:399:TYR:O	1:1D:402:ARG:NH1	2.24	0.68
1:1E:349:THR:CG2	2:4R:184:PRO:CG	2.71	0.68
2:1T:403:ALA:HB2	1:2G:262:TYR:OH	1.93	0.68
2:1Y:182:VAL:CG2	1:2M:257:THR:HG22	2.24	0.68
2:1Y:404:PHE:HE1	1:2M:260:VAL:H	1.38	0.68
2:2P:401:ARG:NH2	1:3C:435:VAL:HA	2.09	0.68
2:2R:221:THR:OG1	1:3E:324:VAL:CG2	2.34	0.68
2:2V:178:SER:O	1:3J:351:PHE:O	2.12	0.68
2:2X:210:TYR:HD2	1:3L:329:ASN:ND2	1.83	0.68
1:3D:399:TYR:O	1:3D:402:ARG:NH1	2.24	0.68
1:1B:253:THR:HB	2:4O:100:GLY:CA	2.24	0.68
1:1E:263:PRO:N	2:4R:406:HIS:CE1	2.62	0.68
1:1F:261:PRO:HB2	2:4S:404:PHE:N	2.09	0.68
2:1R:181:VAL:N	1:2E:258:ASN:HD22	1.90	0.68
2:2H:177:VAL:HG23	1:3A:332:ILE:HG21	1.75	0.68
2:2P:11:GLN:CD	1:3C:249:ASN:H	1.97	0.68
2:2Q:406:HIS:NE2	1:3D:263:PRO:N	2.41	0.68
2:2W:100:GLY:HA2	1:3K:253:THR:CG2	2.19	0.68
2:2X:223:THR:HA	1:3L:325:PRO:CD	2.23	0.68
2:2Z:403:ALA:CB	1:3N:262:TYR:CZ	2.75	0.68
1:1K:2:ARG:CD	2:4W:72:PRO:HG2	2.23	0.68
1:1K:346:TRP:HZ3	2:4W:404:PHE:CE2	2.06	0.68
1:1L:261:PRO:HB3	2:4X:404:PHE:CD2	2.28	0.68
2:1R:178:SER:CB	1:2E:349:THR:CB	2.71	0.68
2:1R:221:THR:OG1	1:2E:324:VAL:CG1	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1S:404:PHE:CE1	1:2F:261:PRO:CA	2.76	0.68
2:1T:283:TYR:OH	2:1U:85:GLN:O	2.05	0.68
2:1T:404:PHE:CE1	1:2G:261:PRO:N	2.61	0.68
2:1Z:11:GLN:NE2	1:2N:249:ASN:ND2	2.42	0.68
2:2V:101:ASN:ND2	1:3J:258:ASN:CG	2.47	0.68
2:2W:222:PRO:HG2	1:3K:326:LYS:CB	2.15	0.68
2:2Z:401:ARG:HH22	1:3N:434:GLU:C	1.92	0.68
1:1B:263:PRO:N	2:4O:406:HIS:CE1	2.61	0.68
1:1D:247:ALA:HB1	2:4Q:224:TYR:HD2	1.59	0.68
1:1F:263:PRO:N	2:4S:406:HIS:CE1	2.61	0.68
1:1G:349:THR:HG21	2:4T:184:PRO:HG3	1.76	0.68
1:1I:329:ASN:ND2	2:4U:210:TYR:CD2	2.58	0.68
1:1J:346:TRP:CZ3	2:4V:404:PHE:HD2	2.11	0.68
1:1L:261:PRO:HB3	2:4X:404:PHE:CG	2.29	0.68
1:1M:262:TYR:CZ	2:4Y:403:ALA:CA	2.77	0.68
2:1S:404:PHE:CZ	1:2F:261:PRO:CB	2.76	0.68
2:1T:221:THR:OG1	1:2G:324:VAL:HG11	1.92	0.68
1:2J:399:TYR:O	1:2J:402:ARG:NH1	2.24	0.68
2:2P:100:GLY:CA	1:3C:253:THR:HG22	2.23	0.68
2:2Q:223:THR:HA	1:3D:325:PRO:HD2	1.74	0.68
2:2S:101:ASN:ND2	1:3F:258:ASN:CG	2.47	0.68
2:2U:72:PRO:HD2	1:3I:2:ARG:CG	2.24	0.68
2:2W:404:PHE:CZ	1:3K:261:PRO:CB	2.74	0.68
2:2Z:222:PRO:CG	1:3N:326:LYS:HB2	2.22	0.68
1:3J:399:TYR:O	1:3J:402:ARG:NH1	2.24	0.68
1:4J:399:TYR:O	1:4J:402:ARG:NH1	2.24	0.68
1:1A:348:PRO:HG3	2:4H:394:GLN:CB	2.23	0.68
1:1F:260:VAL:CB	2:4S:407:TRP:CE2	2.70	0.68
1:1F:261:PRO:CA	2:4S:404:PHE:N	2.57	0.68
1:1I:260:VAL:HG12	2:4U:406:HIS:HE1	1.59	0.68
1:1K:441:GLU:O	2:4W:400:ARG:NH1	2.27	0.68
2:1O:101:ASN:HB2	1:2B:254:GLU:HG2	1.76	0.68
2:2O:100:GLY:CA	1:3B:253:THR:CB	2.67	0.68
2:2U:404:PHE:CA	1:3I:261:PRO:O	2.42	0.68
2:2Y:77:SER:HB3	1:3M:245:ASP:OD1	1.94	0.68
2:3T:283:TYR:OH	2:3U:85:GLN:O	2.05	0.68
1:1A:258:ASN:HD21	2:4H:180:THR:CG2	2.00	0.67
1:1B:261:PRO:CA	2:4O:404:PHE:H	2.07	0.67
1:1F:253:THR:HG22	2:4S:100:GLY:HA3	1.75	0.67
1:1F:352:LYS:HA	2:4S:179:ASP:O	1.94	0.67
1:1G:260:VAL:HG11	2:4T:407:TRP:CZ2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1I:258:ASN:OD1	2:4U:101:ASN:CB	2.42	0.67
1:1I:324:VAL:CG1	2:4U:222:PRO:O	2.41	0.67
1:1L:260:VAL:HB	2:4X:407:TRP:NE1	2.08	0.67
1:1M:329:ASN:CB	2:4Y:210:TYR:CE2	2.76	0.67
1:1N:263:PRO:CD	2:4Z:406:HIS:CG	2.68	0.67
2:2O:406:HIS:CG	1:3B:263:PRO:HD3	2.27	0.67
2:2S:223:THR:HA	1:3F:325:PRO:CD	2.24	0.67
2:2S:394:GLN:CG	1:3F:348:PRO:HG3	2.20	0.67
2:2T:283:TYR:OH	2:2U:85:GLN:O	2.05	0.67
2:2W:404:PHE:CE1	1:3K:261:PRO:CA	2.77	0.67
2:2X:100:GLY:CA	1:3L:253:THR:HB	2.21	0.67
2:2Z:406:HIS:CG	1:3N:263:PRO:HD3	2.27	0.67
1:1C:349:THR:OG1	2:4P:184:PRO:CG	2.41	0.67
1:1F:248:LEU:CD1	5:4S:501:GDP:H8	2.02	0.67
1:1J:332:ILE:CG2	2:4V:177:VAL:HG23	2.25	0.67
2:1X:221:THR:HB	1:2L:324:VAL:HG21	1.75	0.67
2:2R:403:ALA:CA	1:3E:262:TYR:CZ	2.77	0.67
1:1A:262:TYR:CE2	2:4H:403:ALA:CB	2.76	0.67
1:1F:326:LYS:CE	2:4S:214:PHE:HB2	2.24	0.67
1:1F:349:THR:HG21	2:4S:184:PRO:CG	2.23	0.67
1:1G:251:ASP:OD2	2:4T:98:GLY:HA3	1.93	0.67
1:1I:2:ARG:HG3	2:4U:72:PRO:HG2	1.76	0.67
1:1I:314:ALA:HB2	2:4U:181:VAL:HG11	1.76	0.67
1:1M:261:PRO:HA	2:4Y:404:PHE:CD1	2.30	0.67
2:1V:181:VAL:CG2	1:2J:258:ASN:C	2.48	0.67
2:1W:394:GLN:HG2	1:2K:348:PRO:HG2	1.77	0.67
2:1Z:214:PHE:CG	1:2N:326:LYS:CE	2.77	0.67
2:2H:404:PHE:CE2	1:3A:261:PRO:CB	2.69	0.67
2:2W:404:PHE:H	1:3K:261:PRO:C	1.97	0.67
1:1C:261:PRO:CB	2:4P:404:PHE:H	2.06	0.67
1:1E:329:ASN:CB	2:4R:210:TYR:CD2	2.78	0.67
1:1F:349:THR:OG1	2:4S:184:PRO:CG	2.42	0.67
1:1G:263:PRO:N	2:4T:406:HIS:CE1	2.62	0.67
2:1H:101:ASN:HB2	1:2A:254:GLU:CG	2.24	0.67
2:1Y:181:VAL:HG11	1:2M:258:ASN:O	1.94	0.67
2:2S:222:PRO:CG	1:3F:326:LYS:HB2	2.16	0.67
2:2T:177:VAL:HG23	1:3G:332:ILE:HG21	1.77	0.67
2:2X:176:LYS:CE	1:3L:333:ALA:HB1	2.25	0.67
2:2Z:403:ALA:HB1	1:3N:261:PRO:HB2	1.75	0.67
2:4T:283:TYR:OH	2:4U:85:GLN:O	2.05	0.67
1:1C:261:PRO:CB	2:4P:404:PHE:CG	2.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:263:PRO:N	2:4P:406:HIS:CE1	2.62	0.67
1:1I:347:CYS:HA	2:4U:398:MET:HG2	1.77	0.67
1:1M:260:VAL:HB	2:4Y:407:TRP:CE2	2.29	0.67
2:1V:11:GLN:HE22	1:2J:249:ASN:CB	2.07	0.67
2:1W:181:VAL:CB	1:2K:258:ASN:O	2.42	0.67
2:2V:404:PHE:CE1	1:3J:261:PRO:CA	2.78	0.67
2:2V:404:PHE:CA	1:3J:261:PRO:O	2.42	0.67
2:2Y:100:GLY:HA2	1:3M:253:THR:CG2	2.20	0.67
2:2Z:72:PRO:HD2	1:3N:2:ARG:CG	2.25	0.67
2:3W:283:TYR:OH	2:3X:85:GLN:O	2.05	0.67
1:4F:399:TYR:O	1:4F:402:ARG:NH1	2.24	0.67
1:1B:249:ASN:N	2:4O:11:GLN:OE1	2.28	0.67
1:1C:253:THR:C	2:4P:100:GLY:CA	2.62	0.67
1:1D:257:THR:HB	2:4Q:100:GLY:O	1.95	0.67
1:1E:261:PRO:HB2	2:4R:404:PHE:N	2.06	0.67
1:1F:254:GLU:HB3	2:4S:101:ASN:HB2	1.75	0.67
1:1M:263:PRO:CD	2:4Y:406:HIS:CD2	2.77	0.67
1:1N:2:ARG:CG	2:4Z:72:PRO:CG	2.72	0.67
2:1X:221:THR:CA	1:2L:324:VAL:CG1	2.59	0.67
2:1Y:404:PHE:CE1	1:2M:260:VAL:N	2.63	0.67
2:2R:224:TYR:CE2	1:3E:248:LEU:HB2	2.25	0.67
2:2T:404:PHE:HA	1:3G:261:PRO:HA	1.76	0.67
2:2U:222:PRO:CG	1:3I:326:LYS:CB	2.68	0.67
2:2W:283:TYR:OH	2:2X:85:GLN:O	2.05	0.67
1:1C:248:LEU:C	2:4P:11:GLN:HE22	1.97	0.67
1:1C:262:TYR:OH	2:4P:403:ALA:N	2.28	0.67
1:1C:329:ASN:HB2	2:4P:210:TYR:HE2	1.59	0.67
1:1D:248:LEU:HB2	2:4Q:224:TYR:HE2	1.60	0.67
1:1D:261:PRO:HA	2:4Q:404:PHE:CB	2.22	0.67
1:1D:263:PRO:N	2:4Q:406:HIS:CE1	2.62	0.67
1:1D:329:ASN:ND2	2:4Q:210:TYR:HD2	1.92	0.67
1:1J:261:PRO:C	2:4V:406:HIS:CD2	2.68	0.67
1:1J:329:ASN:HB2	2:4V:210:TYR:HE2	1.60	0.67
2:1T:404:PHE:CZ	1:2G:261:PRO:N	2.63	0.67
2:1U:11:GLN:HE22	1:2I:249:ASN:HB2	1.59	0.67
1:2F:399:TYR:O	1:2F:402:ARG:NH1	2.24	0.67
2:2P:178:SER:O	1:3C:351:PHE:CB	2.42	0.67
2:2T:180:THR:CG2	1:3G:258:ASN:ND2	2.54	0.67
1:1A:2:ARG:CG	2:4H:72:PRO:HD2	2.25	0.67
1:1F:348:PRO:HD2	2:4S:398:MET:HG3	1.75	0.67
1:1F:399:TYR:O	1:1F:402:ARG:NH1	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:258:ASN:OD1	2:4T:101:ASN:CG	2.32	0.67
1:1I:261:PRO:O	2:4U:406:HIS:HD2	1.77	0.67
2:1T:222:PRO:O	1:2G:325:PRO:HD2	1.94	0.67
2:1X:404:PHE:CE1	1:2L:260:VAL:N	2.62	0.67
2:2H:401:ARG:HH22	1:3A:434:GLU:C	1.92	0.67
2:2H:404:PHE:CD2	1:3A:261:PRO:CB	2.78	0.67
2:2Q:224:TYR:CE2	1:3D:248:LEU:HB2	2.26	0.67
1:3F:399:TYR:O	1:3F:402:ARG:NH1	2.24	0.67
1:1D:254:GLU:CB	2:4Q:101:ASN:HB2	2.24	0.67
1:1E:261:PRO:O	2:4R:404:PHE:N	2.28	0.67
1:1G:349:THR:HG21	2:4T:184:PRO:CG	2.25	0.67
2:1H:283:TYR:OH	2:1O:85:GLN:O	2.05	0.67
2:1S:100:GLY:HA2	1:2F:253:THR:HB	1.75	0.67
2:2Q:181:VAL:HG21	1:3D:258:ASN:O	1.94	0.67
2:2T:222:PRO:CG	1:3G:326:LYS:CB	2.72	0.67
2:2T:404:PHE:CA	1:3G:261:PRO:HA	2.25	0.67
2:2U:406:HIS:CD2	1:3I:262:TYR:HA	2.30	0.67
2:2Z:406:HIS:NE2	1:3N:263:PRO:N	2.42	0.67
1:1D:329:ASN:CB	2:4Q:210:TYR:CE2	2.76	0.67
1:1I:332:ILE:CG2	2:4U:177:VAL:CG2	2.73	0.67
1:1I:348:PRO:HD2	2:4U:398:MET:HG3	1.77	0.67
2:2P:394:GLN:CG	1:3C:348:PRO:CG	2.68	0.67
2:2R:407:TRP:NE1	1:3E:260:VAL:HB	2.10	0.67
2:2U:72:PRO:HG2	1:3I:2:ARG:CG	2.22	0.67
2:2U:72:PRO:HD2	1:3I:2:ARG:CD	2.25	0.67
2:2V:406:HIS:NE2	1:3J:262:TYR:C	2.47	0.67
2:2X:221:THR:C	1:3L:324:VAL:HG11	2.14	0.67
1:1C:2:ARG:NH2	2:4P:73:GLY:HA3	2.11	0.66
1:1G:2:ARG:CG	2:4T:72:PRO:HD2	2.25	0.66
2:1T:404:PHE:CD1	1:2G:260:VAL:O	2.49	0.66
2:1Y:181:VAL:HG21	1:2M:258:ASN:HB3	1.75	0.66
2:2R:403:ALA:HB2	1:3E:262:TYR:OH	1.95	0.66
2:2T:77:SER:CB	1:3G:245:ASP:OD1	2.41	0.66
2:2W:179:ASP:O	1:3K:352:LYS:HD2	1.94	0.66
2:2Y:100:GLY:CA	1:3M:253:THR:CB	2.69	0.66
1:1A:261:PRO:CA	2:4H:404:PHE:CG	2.75	0.66
1:1K:261:PRO:HB3	2:4W:404:PHE:CG	2.30	0.66
1:1K:329:ASN:CB	2:4W:210:TYR:CE2	2.79	0.66
2:1Q:180:THR:HG23	1:2D:258:ASN:HD21	1.61	0.66
2:1U:404:PHE:CE1	1:2I:261:PRO:CA	2.77	0.66
2:1Y:181:VAL:CG2	1:2M:258:ASN:CA	2.72	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2O:181:VAL:CG2	1:3B:258:ASN:O	2.43	0.66
2:2P:100:GLY:CA	1:3C:253:THR:CB	2.69	0.66
2:2P:397:ALA:O	1:3C:346:TRP:CB	2.43	0.66
2:2U:176:LYS:CE	1:3I:333:ALA:HB1	2.24	0.66
2:2Y:72:PRO:CG	1:3M:2:ARG:HG3	2.25	0.66
2:3H:283:TYR:OH	2:3O:85:GLN:O	2.05	0.66
1:1B:254:GLU:HG2	2:4O:101:ASN:N	2.10	0.66
1:1B:346:TRP:HB3	2:4O:397:ALA:O	1.96	0.66
1:1C:253:THR:CB	2:4P:100:GLY:CA	2.73	0.66
1:1C:348:PRO:CG	2:4P:394:GLN:HB3	2.15	0.66
1:1D:2:ARG:NH2	2:4Q:73:GLY:HA3	2.10	0.66
1:1G:314:ALA:HB1	2:4T:181:VAL:HG21	1.77	0.66
1:1G:325:PRO:O	2:4T:210:TYR:OH	2.12	0.66
1:1K:346:TRP:CZ3	2:4W:404:PHE:HE2	2.06	0.66
1:1K:439:SER:OG	2:4W:401:ARG:CG	2.44	0.66
2:1Y:11:GLN:HE22	1:2M:249:ASN:ND2	1.92	0.66
2:1Z:401:ARG:HH22	1:2N:435:VAL:HA	1.59	0.66
2:2H:283:TYR:OH	2:2O:85:GLN:O	2.05	0.66
5:2H:501:GDP:C8	1:3A:248:LEU:HD13	2.31	0.66
2:2U:221:THR:C	1:3I:324:VAL:HG11	2.15	0.66
2:2W:178:SER:HB2	1:3K:349:THR:HB	1.77	0.66
2:2Z:404:PHE:CE1	1:3N:260:VAL:C	2.69	0.66
1:1C:253:THR:CB	2:4P:100:GLY:HA2	2.24	0.66
1:1D:326:LYS:CA	2:4Q:210:TYR:CE1	2.78	0.66
1:1E:263:PRO:CA	2:4R:406:HIS:CE1	2.77	0.66
1:1F:260:VAL:HG11	2:4S:407:TRP:CZ2	2.30	0.66
1:1G:263:PRO:CD	2:4T:406:HIS:CD2	2.78	0.66
1:1J:348:PRO:HG2	2:4V:394:GLN:HB3	1.78	0.66
2:2Q:179:ASP:O	1:3D:352:LYS:HD2	1.96	0.66
2:2S:397:ALA:O	1:3F:346:TRP:CB	2.43	0.66
2:2S:404:PHE:CZ	1:3F:261:PRO:HB3	2.30	0.66
2:2T:222:PRO:HD2	1:3G:326:LYS:CB	2.26	0.66
2:2W:222:PRO:CG	1:3K:326:LYS:CB	2.73	0.66
2:2W:406:HIS:NE2	1:3K:263:PRO:CD	2.57	0.66
2:2Z:177:VAL:HG23	1:3N:332:ILE:HG21	1.78	0.66
1:1A:263:PRO:CA	2:4H:406:HIS:CE1	2.78	0.66
1:1C:2:ARG:HG3	2:4P:72:PRO:HG3	1.75	0.66
1:1D:261:PRO:CB	2:4Q:404:PHE:CG	2.77	0.66
1:1G:348:PRO:CG	2:4T:394:GLN:HG2	2.26	0.66
2:1W:100:GLY:CA	1:2K:253:THR:HG22	2.22	0.66
2:1X:11:GLN:HE22	1:2L:249:ASN:CB	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2R:404:PHE:CG	1:3E:261:PRO:CA	2.77	0.66
2:2W:178:SER:HB3	1:3K:349:THR:HA	1.76	0.66
2:2X:394:GLN:CG	1:3L:348:PRO:CG	2.68	0.66
2:2Y:214:PHE:CG	1:3M:326:LYS:HE2	2.29	0.66
2:4H:283:TYR:OH	2:4O:85:GLN:O	2.05	0.66
1:1A:248:LEU:HD13	5:4H:501:GDP:H8	1.61	0.66
1:1E:261:PRO:HD3	2:4R:404:PHE:CE1	2.31	0.66
1:1F:251:ASP:OD2	2:4S:98:GLY:HA3	1.96	0.66
1:1G:257:THR:HG21	2:4T:102:ASN:HB2	1.78	0.66
1:1K:326:LYS:HA	2:4W:210:TYR:CE1	2.31	0.66
1:1M:441:GLU:O	2:4Y:400:ARG:NH1	2.29	0.66
2:1W:404:PHE:CD2	1:2K:261:PRO:CA	2.69	0.66
2:2H:177:VAL:HG23	1:3A:332:ILE:CG2	2.24	0.66
2:2Q:404:PHE:CD2	1:3D:261:PRO:CB	2.77	0.66
2:2T:210:TYR:CE2	1:3G:329:ASN:HB2	2.31	0.66
2:2V:72:PRO:HG2	1:3J:2:ARG:CG	2.24	0.66
2:2Y:222:PRO:HD2	1:3M:326:LYS:CB	2.26	0.66
2:2Z:223:THR:HA	1:3N:325:PRO:HD2	1.77	0.66
1:1B:261:PRO:O	2:4O:404:PHE:CA	2.43	0.66
1:1B:346:TRP:O	2:4O:398:MET:HG3	1.93	0.66
1:1C:263:PRO:HD3	2:4P:406:HIS:CB	2.24	0.66
1:1L:346:TRP:HZ3	2:4X:404:PHE:CE2	2.06	0.66
2:1W:11:GLN:NE2	1:2K:249:ASN:HB2	2.10	0.66
2:2W:181:VAL:HG21	1:3K:314:ALA:HB1	1.78	0.66
1:1J:261:PRO:O	2:4V:406:HIS:HD2	1.78	0.66
1:1L:329:ASN:CB	2:4X:210:TYR:CE2	2.79	0.66
1:1N:261:PRO:O	2:4Z:404:PHE:N	2.29	0.66
2:1T:222:PRO:CG	1:2G:326:LYS:HB2	2.26	0.66
2:1X:178:SER:HB3	1:2L:349:THR:HB	1.78	0.66
2:2R:406:HIS:CD2	1:3E:262:TYR:HA	2.31	0.66
2:2X:207:GLU:OE1	1:3L:329:ASN:ND2	2.24	0.66
1:1C:247:ALA:O	2:4P:15:GLN:OE1	2.14	0.66
1:1C:261:PRO:HB2	2:4P:403:ALA:HB1	1.77	0.66
1:1D:261:PRO:CA	2:4Q:404:PHE:CG	2.78	0.66
1:1E:261:PRO:CB	2:4R:404:PHE:CG	2.79	0.66
1:1E:346:TRP:CA	2:4R:397:ALA:C	2.63	0.66
1:1F:248:LEU:HD11	5:4S:501:GDP:H5"	1.78	0.66
1:1F:314:ALA:HB2	2:4S:404:PHE:CZ	2.30	0.66
1:1F:349:THR:HG21	2:4S:184:PRO:CD	2.25	0.66
1:1G:325:PRO:CB	2:4T:224:TYR:CE1	2.79	0.66
1:1L:2:ARG:CD	2:4X:72:PRO:HG2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1M:2:ARG:CG	2:4Y:72:PRO:CG	2.72	0.66
2:1V:404:PHE:CZ	1:2J:261:PRO:HA	2.26	0.66
2:2S:394:GLN:HG2	1:3F:348:PRO:CB	2.26	0.66
2:2Y:403:ALA:HA	1:3M:262:TYR:CE1	2.31	0.66
1:1A:329:ASN:ND2	2:4H:207:GLU:OE1	2.29	0.66
1:1C:254:GLU:N	2:4P:100:GLY:HA2	2.11	0.66
1:1C:348:PRO:HB2	2:4P:394:GLN:CG	2.25	0.66
1:1D:262:TYR:CE2	2:4Q:403:ALA:HB2	2.31	0.66
1:1D:324:VAL:HG21	2:4Q:221:THR:HG1	1.60	0.66
1:1F:258:ASN:HD21	2:4S:180:THR:HG23	1.60	0.66
1:1F:346:TRP:HB2	2:4S:397:ALA:O	1.92	0.66
1:1I:260:VAL:CG1	2:4U:407:TRP:CZ2	2.78	0.66
1:1K:260:VAL:CB	2:4W:407:TRP:CZ2	2.78	0.66
1:1N:326:LYS:CB	2:4Z:222:PRO:CG	2.72	0.66
2:1H:181:VAL:HB	1:2A:258:ASN:HA	1.78	0.66
2:1T:406:HIS:CE1	1:2G:263:PRO:HB3	2.30	0.66
2:1X:224:TYR:HE2	1:2L:248:LEU:HB2	1.59	0.66
2:1Z:101:ASN:CB	1:2N:254:GLU:HG2	2.18	0.66
2:2W:177:VAL:HG23	1:3K:332:ILE:CG2	2.26	0.66
1:1B:262:TYR:CE2	2:4O:403:ALA:HA	2.30	0.65
1:1M:2:ARG:CD	2:4Y:72:PRO:HG2	2.25	0.65
2:1H:100:GLY:HA3	1:2A:253:THR:CG2	2.25	0.65
2:2O:401:ARG:NH2	1:3B:435:VAL:HA	2.11	0.65
2:2V:178:SER:HB2	1:3J:349:THR:HB	1.78	0.65
1:1C:261:PRO:CB	2:4P:404:PHE:N	2.60	0.65
1:1J:2:ARG:CD	2:4V:72:PRO:CG	2.74	0.65
1:1M:346:TRP:HZ3	2:4Y:404:PHE:CE2	2.14	0.65
1:1N:349:THR:HA	2:4Z:178:SER:CB	2.26	0.65
2:1R:180:THR:HG23	1:2E:258:ASN:HD21	1.60	0.65
2:1R:404:PHE:CE2	1:2E:261:PRO:CB	2.73	0.65
2:1V:178:SER:HB3	1:2J:349:THR:CB	2.23	0.65
2:2O:401:ARG:O	1:3B:262:TYR:OH	2.12	0.65
2:2W:176:LYS:CE	1:3K:333:ALA:HB1	2.26	0.65
2:2Y:100:GLY:HA3	1:3M:253:THR:HG21	1.78	0.65
1:1D:258:ASN:HD22	2:4Q:182:VAL:HG22	1.60	0.65
1:1D:348:PRO:HG2	2:4Q:394:GLN:CG	2.18	0.65
1:1D:352:LYS:HD3	2:4Q:101:ASN:ND2	2.12	0.65
1:1F:247:ALA:O	2:4S:15:GLN:OE1	2.14	0.65
1:1I:2:ARG:CD	2:4U:72:PRO:CD	2.51	0.65
1:1I:332:ILE:HB	2:4U:177:VAL:HG21	1.76	0.65
2:1H:221:THR:OG1	1:2A:324:VAL:CG2	2.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1P:221:THR:OG1	1:2C:324:VAL:CG2	2.44	0.65
2:2H:407:TRP:HE1	1:3A:260:VAL:HB	1.61	0.65
2:2Q:222:PRO:HG2	1:3D:326:LYS:CB	2.25	0.65
2:2S:404:PHE:CE1	1:3F:261:PRO:N	2.64	0.65
2:2U:180:THR:CG2	1:3I:258:ASN:ND2	2.53	0.65
2:2Y:176:LYS:HE2	1:3M:333:ALA:CB	2.27	0.65
2:2Y:214:PHE:CB	1:3M:326:LYS:CE	2.65	0.65
1:1A:262:TYR:CZ	2:4H:403:ALA:CB	2.80	0.65
1:1C:329:ASN:CB	2:4P:210:TYR:CD2	2.78	0.65
1:1G:247:ALA:C	2:4T:15:GLN:HE22	2.00	0.65
1:1J:261:PRO:HB3	2:4V:404:PHE:CD2	2.31	0.65
1:1N:2:ARG:CD	2:4Z:72:PRO:HD2	2.22	0.65
2:1S:224:TYR:HE2	1:2F:248:LEU:HB2	1.61	0.65
2:2H:214:PHE:CG	1:3A:326:LYS:CE	2.80	0.65
2:2Q:100:GLY:CA	1:3D:253:THR:HG22	2.23	0.65
2:2Q:401:ARG:NH2	1:3D:435:VAL:HA	2.12	0.65
2:2T:100:GLY:O	1:3G:257:THR:CB	2.44	0.65
1:1A:346:TRP:HB2	2:4H:397:ALA:O	1.96	0.65
1:1A:352:LYS:HA	2:4H:179:ASP:O	1.97	0.65
1:1C:348:PRO:CB	2:4P:394:GLN:CG	2.66	0.65
1:1F:346:TRP:CH2	2:4S:404:PHE:CE2	2.83	0.65
1:1G:260:VAL:CG1	2:4T:407:TRP:CZ2	2.79	0.65
1:1I:263:PRO:N	2:4U:406:HIS:CE1	2.65	0.65
1:1I:346:TRP:CZ3	2:4U:404:PHE:HD2	2.11	0.65
1:1K:349:THR:O	2:4W:181:VAL:CA	2.41	0.65
2:1T:178:SER:CB	1:2G:349:THR:CB	2.66	0.65
2:2Q:404:PHE:CD1	1:3D:261:PRO:CA	2.80	0.65
2:2R:210:TYR:HD2	1:3E:329:ASN:ND2	1.83	0.65
2:2T:72:PRO:CG	1:3G:2:ARG:CG	2.75	0.65
1:1D:353:VAL:HG23	2:4Q:179:ASP:HA	1.79	0.65
1:1E:325:PRO:HB3	2:4R:224:TYR:CE1	2.32	0.65
1:1J:352:LYS:HD3	2:4V:101:ASN:ND2	2.11	0.65
2:1X:404:PHE:HE2	1:2L:261:PRO:HB3	1.61	0.65
2:1Y:214:PHE:CE1	1:2M:326:LYS:HE3	2.32	0.65
2:2U:77:SER:CB	1:3I:245:ASP:OD1	2.44	0.65
2:2Z:72:PRO:CG	1:3N:2:ARG:HG3	2.26	0.65
1:1B:262:TYR:CE1	2:4O:403:ALA:HA	2.31	0.65
1:1F:325:PRO:HB3	2:4S:224:TYR:CE1	2.32	0.65
1:1G:325:PRO:HD2	2:4T:223:THR:HA	1.78	0.65
2:1T:181:VAL:HG23	1:2G:258:ASN:CB	2.27	0.65
2:1W:283:TYR:OH	2:1X:85:GLN:O	2.05	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2H:72:PRO:CG	1:3A:2:ARG:HG3	2.25	0.65
2:2V:178:SER:O	1:3J:351:PHE:CB	2.43	0.65
1:1F:314:ALA:HB1	2:4S:181:VAL:HG11	1.79	0.65
1:1G:2:ARG:HD3	2:4T:72:PRO:HD2	0.74	0.65
1:1G:349:THR:CG2	2:4T:184:PRO:CD	2.75	0.65
1:1J:260:VAL:HB	2:4V:407:TRP:HE1	1.56	0.65
1:1J:349:THR:O	2:4V:181:VAL:CA	2.42	0.65
1:1N:349:THR:HA	2:4Z:178:SER:HB3	1.78	0.65
2:2U:406:HIS:NE2	1:3I:263:PRO:CD	2.59	0.65
2:2X:403:ALA:CA	1:3L:262:TYR:CZ	2.80	0.65
1:1B:261:PRO:CB	2:4O:404:PHE:CG	2.79	0.65
1:1B:261:PRO:HD3	2:4O:404:PHE:CE1	2.32	0.65
1:1B:326:LYS:HA	2:4O:210:TYR:CD1	2.31	0.65
1:1C:254:GLU:CB	2:4P:101:ASN:HB2	2.27	0.65
1:1I:353:VAL:CB	2:4U:179:ASP:OD1	2.43	0.65
1:1J:262:TYR:C	2:4V:406:HIS:CE1	2.70	0.65
1:1N:348:PRO:CB	2:4Z:394:GLN:HG2	2.27	0.65
2:1O:181:VAL:N	1:2B:258:ASN:ND2	2.45	0.65
2:1V:401:ARG:HB3	1:2J:262:TYR:OH	1.97	0.65
2:1Z:404:PHE:CG	1:2N:261:PRO:HA	2.32	0.65
2:2H:222:PRO:HD2	1:3A:326:LYS:HB3	1.78	0.65
2:2R:181:VAL:HG21	1:3E:314:ALA:HB1	1.78	0.65
2:2S:181:VAL:HG21	1:3F:258:ASN:O	1.97	0.65
2:2U:406:HIS:CE1	1:3I:263:PRO:CA	2.79	0.65
5:2X:501:GDP:C8	1:3L:248:LEU:HD13	2.32	0.65
2:2Y:72:PRO:HD2	1:3M:2:ARG:CG	2.27	0.65
2:2Z:397:ALA:O	1:3N:346:TRP:HB2	1.96	0.65
1:1B:349:THR:CG2	2:4O:394:GLN:OE1	2.44	0.65
1:1D:2:ARG:NH2	2:4Q:73:GLY:CA	2.60	0.65
1:1F:247:ALA:C	2:4S:15:GLN:HE22	2.00	0.65
1:1I:260:VAL:HG11	2:4U:407:TRP:HZ2	1.62	0.65
1:1L:351:PHE:O	2:4X:180:THR:N	2.30	0.65
1:1M:348:PRO:HG3	2:4Y:394:GLN:CB	2.27	0.65
2:1S:224:TYR:CE2	1:2F:248:LEU:HB2	2.32	0.65
2:1U:180:THR:CG2	1:2I:258:ASN:HD21	2.09	0.65
2:1U:181:VAL:CG2	1:2I:258:ASN:CA	2.75	0.65
2:1V:180:THR:HA	1:2J:258:ASN:ND2	2.12	0.65
2:2Q:407:TRP:NE1	1:3D:260:VAL:HB	2.12	0.65
2:2T:404:PHE:CA	1:3G:261:PRO:O	2.45	0.65
1:1C:261:PRO:HA	2:4P:404:PHE:CD1	2.32	0.64
1:1C:332:ILE:CB	2:4P:177:VAL:CG2	2.75	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:329:ASN:ND2	2:4R:210:TYR:HD2	1.93	0.64
1:1F:324:VAL:HG21	2:4S:221:THR:OG1	1.96	0.64
1:1G:258:ASN:ND2	2:4T:180:THR:HG23	2.11	0.64
1:1I:251:ASP:OD2	2:4U:98:GLY:HA3	1.97	0.64
1:1I:260:VAL:O	2:4U:407:TRP:HD1	1.73	0.64
2:2R:403:ALA:CB	1:3E:262:TYR:CE2	2.80	0.64
2:2S:210:TYR:CE2	1:3F:329:ASN:HB2	2.32	0.64
2:2Z:100:GLY:HA3	1:3N:253:THR:HG21	1.80	0.64
1:1G:346:TRP:CB	2:4T:398:MET:HA	2.22	0.64
1:1I:260:VAL:HG11	2:4U:407:TRP:CZ2	2.32	0.64
1:1I:346:TRP:HZ3	2:4U:404:PHE:HD2	1.40	0.64
1:1L:257:THR:CG2	2:4X:100:GLY:O	2.45	0.64
1:1L:351:PHE:O	2:4X:180:THR:CA	2.45	0.64
1:1L:439:SER:OG	2:4X:401:ARG:HG2	1.97	0.64
2:1T:181:VAL:CG2	1:2G:258:ASN:HB3	2.27	0.64
2:1U:222:PRO:CG	1:2I:326:LYS:HB2	2.27	0.64
2:1W:404:PHE:CE1	1:2K:261:PRO:N	2.62	0.64
2:1Y:401:ARG:HB3	1:2M:262:TYR:HH	1.62	0.64
2:1Z:181:VAL:CA	1:2N:258:ASN:HD22	2.10	0.64
2:1Z:224:TYR:OH	1:2N:248:LEU:HD22	1.97	0.64
2:1Z:394:GLN:HG2	1:2N:348:PRO:HG2	1.78	0.64
2:2X:214:PHE:CB	1:3L:326:LYS:CE	2.64	0.64
2:2Z:250:ALA:HA	2:2Z:254:LYS:HD3	1.79	0.64
2:4H:250:ALA:HA	2:4H:254:LYS:HD3	1.79	0.64
2:4Z:250:ALA:HA	2:4Z:254:LYS:HD3	1.79	0.64
1:1D:262:TYR:OH	2:4Q:401:ARG:C	2.34	0.64
1:1F:2:ARG:HD3	2:4S:72:PRO:HD2	0.71	0.64
1:1F:346:TRP:CH2	2:4S:403:ALA:CB	2.81	0.64
1:1F:346:TRP:CZ3	2:4S:403:ALA:HB3	2.33	0.64
1:1I:261:PRO:HB2	2:4U:404:PHE:H	1.61	0.64
2:1Q:270:PRO:HG2	2:1Q:302:MET:HB2	1.80	0.64
2:1V:11:GLN:NE2	1:2J:249:ASN:HB2	2.11	0.64
2:2H:250:ALA:HA	2:2H:254:LYS:HD3	1.79	0.64
2:2Q:100:GLY:CA	1:3D:253:THR:CB	2.73	0.64
2:2X:214:PHE:CG	1:3L:326:LYS:HE2	2.32	0.64
2:2Y:394:GLN:CG	1:3M:348:PRO:CG	2.71	0.64
2:2Y:403:ALA:CB	1:3M:262:TYR:CE2	2.80	0.64
2:3P:270:PRO:HG2	2:3P:302:MET:HB2	1.80	0.64
2:3Z:250:ALA:HA	2:3Z:254:LYS:HD3	1.79	0.64
1:1B:248:LEU:HB2	2:4O:224:TYR:CE2	2.28	0.64
1:1C:260:VAL:O	2:4P:407:TRP:NE1	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1D:248:LEU:HD11	5:4Q:501:GDP:H5"	1.79	0.64
1:1D:325:PRO:HD2	2:4Q:223:THR:HA	1.79	0.64
1:1K:260:VAL:CB	2:4W:407:TRP:HZ2	2.11	0.64
2:1H:270:PRO:HG2	2:1H:302:MET:HB2	1.80	0.64
2:1O:270:PRO:HG2	2:1O:302:MET:HB2	1.80	0.64
2:1P:270:PRO:HG2	2:1P:302:MET:HB2	1.80	0.64
2:1Z:250:ALA:HA	2:1Z:254:LYS:HD3	1.79	0.64
2:2O:270:PRO:HG2	2:2O:302:MET:HB2	1.80	0.64
2:2P:270:PRO:HG2	2:2P:302:MET:HB2	1.80	0.64
2:2Q:270:PRO:HG2	2:2Q:302:MET:HB2	1.80	0.64
2:2U:72:PRO:CG	1:3I:2:ARG:CG	2.76	0.64
2:2V:222:PRO:CD	1:3J:326:LYS:CB	2.76	0.64
2:3H:250:ALA:HA	2:3H:254:LYS:HD3	1.79	0.64
2:3O:270:PRO:HG2	2:3O:302:MET:HB2	1.80	0.64
2:3Q:270:PRO:HG2	2:3Q:302:MET:HB2	1.80	0.64
2:4O:270:PRO:HG2	2:4O:302:MET:HB2	1.80	0.64
2:4P:270:PRO:HG2	2:4P:302:MET:HB2	1.80	0.64
2:4Q:270:PRO:HG2	2:4Q:302:MET:HB2	1.80	0.64
1:1C:435:VAL:CA	2:4P:401:ARG:NH2	2.60	0.64
1:1F:324:VAL:HG13	2:4S:222:PRO:C	2.18	0.64
1:1K:346:TRP:HA	2:4W:397:ALA:O	1.98	0.64
2:1O:250:ALA:HA	2:1O:254:LYS:HD3	1.80	0.64
2:1P:250:ALA:HA	2:1P:254:LYS:HD3	1.79	0.64
2:1Q:100:GLY:HA2	1:2D:253:THR:HB	1.80	0.64
2:1U:404:PHE:CZ	1:2I:261:PRO:CB	2.79	0.64
2:2O:250:ALA:HA	2:2O:254:LYS:HD3	1.79	0.64
2:2R:181:VAL:HG21	1:3E:258:ASN:O	1.98	0.64
2:2V:72:PRO:HD2	1:3J:2:ARG:CG	2.27	0.64
2:2V:176:LYS:CE	1:3J:333:ALA:HB1	2.26	0.64
2:2V:404:PHE:H	1:3J:261:PRO:C	1.97	0.64
2:3P:250:ALA:HA	2:3P:254:LYS:HD3	1.79	0.64
2:3Y:250:ALA:HA	2:3Y:254:LYS:HD3	1.79	0.64
2:4H:270:PRO:HG2	2:4H:302:MET:HB2	1.80	0.64
2:4W:283:TYR:OH	2:4X:85:GLN:O	2.05	0.64
1:1A:346:TRP:O	2:4H:398:MET:HG3	1.98	0.64
1:1F:326:LYS:HA	2:4S:210:TYR:CZ	2.33	0.64
1:1G:258:ASN:ND2	2:4T:101:ASN:ND2	2.45	0.64
1:1J:439:SER:OG	2:4V:401:ARG:CG	2.46	0.64
1:1M:261:PRO:C	2:4Y:406:HIS:NE2	2.51	0.64
2:1H:179:ASP:O	1:2A:352:LYS:HD2	1.97	0.64
2:1H:250:ALA:HA	2:1H:254:LYS:HD3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1V:224:TYR:HH	1:2J:248:LEU:HD22	1.60	0.64
2:1X:406:HIS:CE1	1:2L:263:PRO:HB3	2.31	0.64
2:2H:270:PRO:HG2	2:2H:302:MET:HB2	1.80	0.64
2:2H:404:PHE:CD1	1:3A:261:PRO:CA	2.81	0.64
2:2H:406:HIS:CG	1:3A:263:PRO:HD3	2.29	0.64
2:2P:250:ALA:HA	2:2P:254:LYS:HD3	1.79	0.64
2:2R:394:GLN:CG	1:3E:348:PRO:HG2	2.28	0.64
2:2T:72:PRO:HG2	1:3G:2:ARG:CG	2.24	0.64
2:2T:176:LYS:HE2	1:3G:333:ALA:CB	2.25	0.64
2:2X:250:ALA:HA	2:2X:254:LYS:HD3	1.79	0.64
2:3H:270:PRO:HG2	2:3H:302:MET:HB2	1.80	0.64
2:3O:250:ALA:HA	2:3O:254:LYS:HD3	1.79	0.64
2:3R:270:PRO:HG2	2:3R:302:MET:HB2	1.80	0.64
2:4O:250:ALA:HA	2:4O:254:LYS:HD3	1.80	0.64
2:4P:250:ALA:HA	2:4P:254:LYS:HD3	1.79	0.64
2:4Y:250:ALA:HA	2:4Y:254:LYS:HD3	1.80	0.64
1:1A:326:LYS:CB	2:4H:222:PRO:CG	2.75	0.64
1:1C:260:VAL:O	2:4P:407:TRP:HD1	1.75	0.64
1:1C:261:PRO:O	2:4P:404:PHE:CA	2.44	0.64
1:1F:263:PRO:N	2:4S:406:HIS:NE2	2.45	0.64
1:1K:349:THR:HG21	2:4W:184:PRO:CD	2.24	0.64
1:1L:326:LYS:HE2	2:4X:214:PHE:HB2	1.78	0.64
2:1R:270:PRO:HG2	2:1R:302:MET:HB2	1.80	0.64
2:1T:176:LYS:O	1:2G:336:LYS:NZ	2.31	0.64
2:1V:180:THR:C	1:2J:258:ASN:ND2	2.48	0.64
2:1Y:250:ALA:HA	2:1Y:254:LYS:HD3	1.80	0.64
2:2P:394:GLN:OE1	1:3C:349:THR:CG2	2.46	0.64
2:2Q:250:ALA:HA	2:2Q:254:LYS:HD3	1.79	0.64
2:2R:270:PRO:HG2	2:2R:302:MET:HB2	1.80	0.64
2:2R:394:GLN:HG2	1:3E:348:PRO:CB	2.26	0.64
2:2R:403:ALA:HB1	1:3E:261:PRO:HB2	1.79	0.64
2:2T:100:GLY:CA	1:3G:253:THR:HB	2.28	0.64
2:2T:316:ALA:HB3	2:2T:378:ILE:HB	1.80	0.64
2:2U:100:GLY:O	1:3I:257:THR:CB	2.45	0.64
2:2Y:250:ALA:HA	2:2Y:254:LYS:HD3	1.80	0.64
5:2Z:501:GDP:C8	1:3N:248:LEU:HD13	2.33	0.64
1:3F:71:GLU:HB3	1:3F:98:ASP:HB3	1.80	0.64
2:3Q:250:ALA:HA	2:3Q:254:LYS:HD3	1.79	0.64
2:3T:316:ALA:HB3	2:3T:378:ILE:HB	1.80	0.64
2:4R:270:PRO:HG2	2:4R:302:MET:HB2	1.80	0.64
2:4X:250:ALA:HA	2:4X:254:LYS:HD3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:346:TRP:CA	2:4O:397:ALA:O	2.45	0.64
1:1G:258:ASN:ND2	2:4T:182:VAL:HG22	2.13	0.64
1:1J:260:VAL:CG1	2:4V:407:TRP:HZ2	2.11	0.64
1:1N:349:THR:O	2:4Z:181:VAL:HA	1.98	0.64
2:1Q:250:ALA:HA	2:1Q:254:LYS:HD3	1.80	0.64
2:1T:224:TYR:CD2	1:2G:247:ALA:O	2.50	0.64
2:1V:222:PRO:CD	1:2J:326:LYS:HB2	2.28	0.64
2:1W:182:VAL:HG22	1:2K:257:THR:HG22	1.79	0.64
2:1Y:181:VAL:N	1:2M:258:ASN:HD21	1.85	0.64
2:1Z:270:PRO:HG2	2:1Z:302:MET:HB2	1.80	0.64
2:2U:181:VAL:CG2	1:3I:258:ASN:O	2.45	0.64
2:2W:316:ALA:HB3	2:2W:378:ILE:HB	1.80	0.64
2:3X:250:ALA:HA	2:3X:254:LYS:HD3	1.80	0.64
2:3Z:270:PRO:HG2	2:3Z:302:MET:HB2	1.80	0.64
1:4F:71:GLU:HB3	1:4F:98:ASP:HB3	1.80	0.64
2:4T:316:ALA:HB3	2:4T:378:ILE:HB	1.80	0.64
2:4W:316:ALA:HB3	2:4W:378:ILE:HB	1.80	0.64
1:1B:261:PRO:CA	2:4O:404:PHE:N	2.60	0.64
1:1C:332:ILE:HB	2:4P:177:VAL:HG21	1.80	0.64
1:1D:71:GLU:HB3	1:1D:98:ASP:HB3	1.80	0.64
1:1F:71:GLU:HB3	1:1F:98:ASP:HB3	1.80	0.64
1:1G:346:TRP:CZ3	2:4T:404:PHE:HD2	2.16	0.64
1:1K:349:THR:OG1	2:4W:184:PRO:CD	2.46	0.64
1:1M:351:PHE:O	2:4Y:180:THR:CA	2.46	0.64
2:1W:316:ALA:HB3	2:1W:378:ILE:HB	1.80	0.64
2:1X:101:ASN:HB2	1:2L:254:GLU:CG	2.16	0.64
2:1X:250:ALA:HA	2:1X:254:LYS:HD3	1.80	0.64
1:2F:71:GLU:HB3	1:2F:98:ASP:HB3	1.80	0.64
1:2G:71:GLU:HB3	1:2G:98:ASP:HB3	1.80	0.64
2:2O:214:PHE:CD1	1:3B:326:LYS:HE3	2.33	0.64
2:2U:177:VAL:HG23	1:3I:332:ILE:HG21	1.79	0.64
2:2Z:270:PRO:HG2	2:2Z:302:MET:HB2	1.80	0.64
1:3D:71:GLU:HB3	1:3D:98:ASP:HB3	1.80	0.64
1:3G:71:GLU:HB3	1:3G:98:ASP:HB3	1.80	0.64
1:4D:71:GLU:HB3	1:4D:98:ASP:HB3	1.80	0.64
2:4Q:250:ALA:HA	2:4Q:254:LYS:HD3	1.79	0.64
2:4Z:270:PRO:HG2	2:4Z:302:MET:HB2	1.80	0.64
1:1D:248:LEU:CA	2:4Q:11:GLN:NE2	2.61	0.64
1:1G:71:GLU:HB3	1:1G:98:ASP:HB3	1.80	0.64
1:1I:257:THR:HG21	2:4U:102:ASN:HB2	1.79	0.64
1:1J:349:THR:CB	2:4V:184:PRO:HD3	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1K:346:TRP:HZ3	2:4W:404:PHE:HD2	1.46	0.64
1:1K:351:PHE:O	2:4W:180:THR:N	2.30	0.64
1:1L:263:PRO:N	2:4X:406:HIS:CE1	2.66	0.64
2:1T:316:ALA:HB3	2:1T:378:ILE:HB	1.80	0.64
2:1T:404:PHE:HE2	1:2G:261:PRO:HB3	1.56	0.64
2:1Y:181:VAL:CB	1:2M:258:ASN:O	2.45	0.64
1:2D:71:GLU:HB3	1:2D:98:ASP:HB3	1.80	0.64
2:3W:316:ALA:HB3	2:3W:378:ILE:HB	1.80	0.64
1:1B:325:PRO:CD	2:4O:223:THR:HA	2.27	0.63
1:1D:247:ALA:O	2:4Q:15:GLN:NE2	2.31	0.63
1:1K:262:TYR:HA	2:4W:406:HIS:HD2	1.55	0.63
2:1U:179:ASP:O	1:2I:352:LYS:CD	2.46	0.63
2:1X:11:GLN:HE22	1:2L:249:ASN:HB2	1.62	0.63
2:1Y:182:VAL:HG21	1:2M:257:THR:HG21	1.79	0.63
2:1Y:270:PRO:HG2	2:1Y:302:MET:HB2	1.80	0.63
1:2E:71:GLU:HB3	1:2E:98:ASP:HB3	1.80	0.63
2:2H:404:PHE:CE1	1:3A:261:PRO:N	2.66	0.63
2:2Q:403:ALA:HA	1:3D:262:TYR:CZ	2.33	0.63
2:2S:270:PRO:HG2	2:2S:302:MET:HB2	1.80	0.63
2:2S:394:GLN:CG	1:3F:348:PRO:HG2	2.28	0.63
2:2S:407:TRP:NE1	1:3F:260:VAL:HB	2.12	0.63
2:2W:250:ALA:HA	2:2W:254:LYS:HD3	1.79	0.63
1:3E:71:GLU:HB3	1:3E:98:ASP:HB3	1.80	0.63
2:3W:250:ALA:HA	2:3W:254:LYS:HD3	1.79	0.63
1:4G:71:GLU:HB3	1:4G:98:ASP:HB3	1.80	0.63
2:4W:250:ALA:HA	2:4W:254:LYS:HD3	1.80	0.63
1:1B:349:THR:HG23	2:4O:394:GLN:OE1	1.98	0.63
1:1C:262:TYR:CE2	2:4P:403:ALA:CA	2.80	0.63
1:1E:71:GLU:HB3	1:1E:98:ASP:HB3	1.80	0.63
1:1E:262:TYR:CE2	2:4R:403:ALA:CA	2.78	0.63
1:1G:346:TRP:HB2	2:4T:398:MET:CA	2.24	0.63
1:1J:260:VAL:HG11	2:4V:407:TRP:HZ2	1.63	0.63
1:1M:248:LEU:HD13	5:4Y:501:GDP:C8	2.33	0.63
2:1S:270:PRO:HG2	2:1S:302:MET:HB2	1.80	0.63
2:1W:250:ALA:HA	2:1W:254:LYS:HD3	1.79	0.63
2:2R:250:ALA:HA	2:2R:254:LYS:HD3	1.79	0.63
2:2Y:224:TYR:HH	1:3M:248:LEU:HD22	1.63	0.63
2:2Y:270:PRO:HG2	2:2Y:302:MET:HB2	1.80	0.63
2:3R:250:ALA:HA	2:3R:254:LYS:HD3	1.79	0.63
2:3Y:270:PRO:HG2	2:3Y:302:MET:HB2	1.80	0.63
1:4E:71:GLU:HB3	1:4E:98:ASP:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4R:250:ALA:HA	2:4R:254:LYS:HD3	1.79	0.63
2:4S:270:PRO:HG2	2:4S:302:MET:HB2	1.80	0.63
2:4Y:270:PRO:HG2	2:4Y:302:MET:HB2	1.80	0.63
1:1A:336:LYS:NZ	2:4H:176:LYS:O	2.20	0.63
1:1D:260:VAL:CB	2:4Q:407:TRP:NE1	2.21	0.63
1:1G:346:TRP:HZ3	2:4T:404:PHE:CD2	2.16	0.63
1:1G:349:THR:O	2:4T:181:VAL:O	2.17	0.63
1:1I:71:GLU:HB3	1:1I:98:ASP:HB3	1.80	0.63
1:1J:348:PRO:HG3	2:4V:394:GLN:HA	1.79	0.63
1:1K:257:THR:CG2	2:4W:100:GLY:O	2.46	0.63
2:1H:214:PHE:CG	1:2A:326:LYS:HE2	2.32	0.63
2:1R:250:ALA:HA	2:1R:254:LYS:HD3	1.80	0.63
2:1V:224:TYR:CE2	1:2J:247:ALA:O	2.51	0.63
2:1X:71:GLU:HB2	1:2L:2:ARG:HD3	1.80	0.63
2:2H:406:HIS:NE2	1:3A:263:PRO:N	2.46	0.63
2:2O:394:GLN:OE1	1:3B:349:THR:CG2	2.46	0.63
1:3I:71:GLU:HB3	1:3I:98:ASP:HB3	1.80	0.63
2:3S:270:PRO:HG2	2:3S:302:MET:HB2	1.80	0.63
1:1A:261:PRO:HB3	2:4H:404:PHE:CZ	2.32	0.63
1:1A:261:PRO:O	2:4H:404:PHE:CA	2.46	0.63
1:1E:349:THR:HG21	2:4R:184:PRO:CG	2.27	0.63
1:1J:348:PRO:CG	2:4V:394:GLN:HB3	2.28	0.63
1:1K:2:ARG:CG	2:4W:72:PRO:CG	2.76	0.63
1:1K:261:PRO:HB3	2:4W:404:PHE:CD2	2.33	0.63
2:1V:180:THR:CA	1:2J:258:ASN:ND2	2.61	0.63
1:2I:71:GLU:HB3	1:2I:98:ASP:HB3	1.80	0.63
2:2H:394:GLN:CG	1:3A:348:PRO:HG2	2.28	0.63
2:2O:394:GLN:CG	1:3B:348:PRO:HG2	2.28	0.63
2:2S:77:SER:CB	1:3F:245:ASP:OD1	2.40	0.63
2:2T:177:VAL:HG23	1:3G:332:ILE:HG22	1.80	0.63
2:2V:316:ALA:HB3	2:2V:378:ILE:HB	1.80	0.63
2:3U:316:ALA:HB3	2:3U:378:ILE:HB	1.80	0.63
2:3V:316:ALA:HB3	2:3V:378:ILE:HB	1.80	0.63
1:4I:71:GLU:HB3	1:4I:98:ASP:HB3	1.80	0.63
2:4U:316:ALA:HB3	2:4U:378:ILE:HB	1.80	0.63
1:1A:261:PRO:CA	2:4H:404:PHE:HA	2.24	0.63
1:1C:324:VAL:CG1	2:4P:222:PRO:C	2.65	0.63
1:1D:346:TRP:CA	2:4Q:397:ALA:C	2.65	0.63
1:1G:326:LYS:CA	2:4T:210:TYR:CE1	2.80	0.63
1:1I:353:VAL:CG2	2:4U:179:ASP:OD1	2.46	0.63
2:1R:283:TYR:OH	2:1S:85:GLN:O	2.05	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1T:214:PHE:HD1	1:2G:326:LYS:HE2	1.59	0.63
2:1V:316:ALA:HB3	2:1V:378:ILE:HB	1.80	0.63
2:1Y:316:ALA:HB3	2:1Y:378:ILE:HB	1.80	0.63
2:2P:406:HIS:NE2	1:3C:263:PRO:N	2.45	0.63
2:2Q:394:GLN:CG	1:3D:348:PRO:HG2	2.27	0.63
2:2R:100:GLY:CA	1:3E:253:THR:CB	2.76	0.63
2:2R:316:ALA:HB3	2:2R:378:ILE:HB	1.80	0.63
2:2U:316:ALA:HB3	2:2U:378:ILE:HB	1.80	0.63
2:2V:404:PHE:CE1	1:3J:260:VAL:C	2.72	0.63
2:2W:394:GLN:CG	1:3K:348:PRO:HG3	2.20	0.63
2:3R:316:ALA:HB3	2:3R:378:ILE:HB	1.80	0.63
2:4R:316:ALA:HB3	2:4R:378:ILE:HB	1.80	0.63
1:1B:260:VAL:O	2:4O:407:TRP:NE1	2.31	0.63
1:1B:435:VAL:HA	2:4O:401:ARG:NH2	2.13	0.63
1:1E:247:ALA:HB1	2:4R:224:TYR:HD2	1.64	0.63
1:1E:353:VAL:HG23	2:4R:179:ASP:HA	1.81	0.63
1:1J:260:VAL:CG1	2:4V:407:TRP:CZ2	2.81	0.63
1:1M:353:VAL:HB	2:4Y:179:ASP:OD1	1.99	0.63
2:1R:316:ALA:HB3	2:1R:378:ILE:HB	1.80	0.63
2:1V:250:ALA:HA	2:1V:254:LYS:HD3	1.79	0.63
2:1W:394:GLN:HG2	1:2K:348:PRO:CG	2.28	0.63
2:1Y:182:VAL:CG2	1:2M:257:THR:CG2	2.77	0.63
2:1Z:404:PHE:HE1	1:2N:260:VAL:N	1.97	0.63
2:2T:179:ASP:OD1	1:3G:353:VAL:HB	1.99	0.63
2:2V:11:GLN:CD	1:3J:249:ASN:H	2.00	0.63
2:2V:180:THR:CG2	1:3J:258:ASN:ND2	2.52	0.63
2:2V:406:HIS:CE1	1:3J:263:PRO:CA	2.81	0.63
2:2W:404:PHE:CA	1:3K:261:PRO:O	2.45	0.63
5:2Y:501:GDP:C8	1:3M:248:LEU:HD13	2.34	0.63
1:3N:71:GLU:HB3	1:3N:98:ASP:HB3	1.80	0.63
2:3R:283:TYR:OH	2:3S:85:GLN:O	2.05	0.63
2:3Y:316:ALA:HB3	2:3Y:378:ILE:HB	1.80	0.63
1:4N:71:GLU:HB3	1:4N:98:ASP:HB3	1.80	0.63
2:4V:250:ALA:HA	2:4V:254:LYS:HD3	1.79	0.63
2:4V:316:ALA:HB3	2:4V:378:ILE:HB	1.80	0.63
2:4Y:316:ALA:HB3	2:4Y:378:ILE:HB	1.80	0.63
1:1C:254:GLU:HG2	2:4P:101:ASN:H	1.63	0.63
1:1F:254:GLU:HA	2:4S:100:GLY:O	1.98	0.63
1:1I:325:PRO:HG2	2:4U:224:TYR:CG	2.33	0.63
1:1J:2:ARG:HD3	2:4V:72:PRO:CG	2.28	0.63
1:1J:333:ALA:HB1	2:4V:176:LYS:HE2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1L:5:ILE:HG22	1:1L:64:ARG:HB3	1.81	0.63
1:1L:71:GLU:HB3	1:1L:98:ASP:HB3	1.80	0.63
2:1U:316:ALA:HB3	2:1U:378:ILE:HB	1.80	0.63
2:1X:11:GLN:HE22	1:2L:249:ASN:ND2	1.94	0.63
2:1Z:401:ARG:CB	1:2N:262:TYR:OH	2.46	0.63
1:2L:71:GLU:HB3	1:2L:98:ASP:HB3	1.80	0.63
2:2P:404:PHE:HA	1:3C:261:PRO:HA	1.81	0.63
2:2R:283:TYR:OH	2:2S:85:GLN:O	2.05	0.63
2:2S:177:VAL:HG23	1:3F:332:ILE:HG22	1.79	0.63
2:2T:397:ALA:O	1:3G:346:TRP:HB2	1.98	0.63
2:2V:250:ALA:HA	2:2V:254:LYS:HD3	1.79	0.63
2:2X:72:PRO:HD2	1:3L:2:ARG:CG	2.29	0.63
2:2X:270:PRO:HG2	2:2X:302:MET:HB2	1.80	0.63
2:2Y:316:ALA:HB3	2:2Y:378:ILE:HB	1.80	0.63
1:3L:5:ILE:HG22	1:3L:64:ARG:HB3	1.81	0.63
2:3S:250:ALA:HA	2:3S:254:LYS:HD3	1.79	0.63
2:3V:250:ALA:HA	2:3V:254:LYS:HD3	1.79	0.63
2:3X:270:PRO:HG2	2:3X:302:MET:HB2	1.80	0.63
1:4C:71:GLU:HB3	1:4C:98:ASP:HB3	1.80	0.63
1:4L:5:ILE:HG22	1:4L:64:ARG:HB3	1.81	0.63
2:4W:270:PRO:HG2	2:4W:302:MET:HB2	1.80	0.63
1:1A:262:TYR:CZ	2:4H:403:ALA:HB2	2.33	0.63
1:1C:5:ILE:HG22	1:1C:64:ARG:HB3	1.81	0.63
1:1C:71:GLU:HB3	1:1C:98:ASP:HB3	1.80	0.63
1:1F:324:VAL:CG1	2:4S:222:PRO:C	2.67	0.63
1:1G:2:ARG:NE	2:4T:72:PRO:HG2	2.13	0.63
1:1I:254:GLU:N	2:4U:100:GLY:HA2	2.13	0.63
1:1J:71:GLU:HB3	1:1J:98:ASP:HB3	1.80	0.63
1:1M:5:ILE:HG22	1:1M:64:ARG:HB3	1.81	0.63
1:1N:71:GLU:HB3	1:1N:98:ASP:HB3	1.80	0.63
2:1S:250:ALA:HA	2:1S:254:LYS:HD3	1.79	0.63
1:2C:5:ILE:HG22	1:2C:64:ARG:HB3	1.81	0.63
1:2C:71:GLU:HB3	1:2C:98:ASP:HB3	1.80	0.63
1:2D:5:ILE:HG22	1:2D:64:ARG:HB3	1.81	0.63
1:2K:5:ILE:HG22	1:2K:64:ARG:HB3	1.81	0.63
1:2L:5:ILE:HG22	1:2L:64:ARG:HB3	1.81	0.63
1:2N:71:GLU:HB3	1:2N:98:ASP:HB3	1.80	0.63
2:2S:250:ALA:HA	2:2S:254:LYS:HD3	1.79	0.63
2:2U:210:TYR:CE2	1:3I:329:ASN:HB2	2.34	0.63
2:2V:177:VAL:HG23	1:3J:332:ILE:HG21	1.81	0.63
2:2W:270:PRO:HG2	2:2W:302:MET:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2X:404:PHE:CE1	1:3L:261:PRO:CA	2.82	0.63
2:2Y:181:VAL:H	1:3M:258:ASN:HD22	1.46	0.63
1:3C:5:ILE:HG22	1:3C:64:ARG:HB3	1.81	0.63
1:3C:71:GLU:HB3	1:3C:98:ASP:HB3	1.80	0.63
1:3D:5:ILE:HG22	1:3D:64:ARG:HB3	1.81	0.63
1:3L:71:GLU:HB3	1:3L:98:ASP:HB3	1.80	0.63
2:3W:270:PRO:HG2	2:3W:302:MET:HB2	1.80	0.63
1:4L:71:GLU:HB3	1:4L:98:ASP:HB3	1.80	0.63
1:4M:71:GLU:HB3	1:4M:98:ASP:HB3	1.80	0.63
2:4S:250:ALA:HA	2:4S:254:LYS:HD3	1.79	0.63
2:4X:270:PRO:HG2	2:4X:302:MET:HB2	1.80	0.63
1:1A:346:TRP:HH2	2:4H:404:PHE:CE2	2.17	0.63
1:1D:5:ILE:HG22	1:1D:64:ARG:HB3	1.81	0.63
1:1G:260:VAL:CB	2:4T:407:TRP:HZ2	2.12	0.63
2:1R:11:GLN:HE22	1:2E:249:ASN:H	1.46	0.63
2:1T:270:PRO:HG2	2:1T:302:MET:HB2	1.80	0.63
2:1U:270:PRO:HG2	2:1U:302:MET:HB2	1.80	0.63
2:1X:270:PRO:HG2	2:1X:302:MET:HB2	1.80	0.63
1:2J:71:GLU:HB3	1:2J:98:ASP:HB3	1.80	0.63
2:2S:180:THR:N	1:3F:351:PHE:O	2.32	0.63
2:2T:270:PRO:HG2	2:2T:302:MET:HB2	1.80	0.63
2:2V:214:PHE:CB	1:3J:326:LYS:CE	2.66	0.63
2:3U:250:ALA:HA	2:3U:254:LYS:HD3	1.79	0.63
2:3U:270:PRO:HG2	2:3U:302:MET:HB2	1.80	0.63
1:4B:71:GLU:HB3	1:4B:98:ASP:HB3	1.80	0.63
1:4C:5:ILE:HG22	1:4C:64:ARG:HB3	1.81	0.63
1:4D:5:ILE:HG22	1:4D:64:ARG:HB3	1.81	0.63
1:4J:71:GLU:HB3	1:4J:98:ASP:HB3	1.80	0.63
1:4K:5:ILE:HG22	1:4K:64:ARG:HB3	1.81	0.63
2:4V:270:PRO:HG2	2:4V:302:MET:HB2	1.80	0.63
1:1C:260:VAL:HG12	2:4P:406:HIS:CE1	2.34	0.62
1:1F:260:VAL:CG1	2:4S:407:TRP:HE1	2.12	0.62
1:1G:261:PRO:CB	2:4T:404:PHE:N	2.62	0.62
1:1G:346:TRP:HZ3	2:4T:404:PHE:HD2	1.47	0.62
1:1J:346:TRP:O	2:4V:398:MET:CB	2.47	0.62
2:1H:178:SER:O	1:2A:351:PHE:O	2.17	0.62
2:1R:222:PRO:CD	1:2E:326:LYS:HB2	2.29	0.62
2:1S:181:VAL:HB	1:2F:258:ASN:HA	1.81	0.62
2:1U:250:ALA:HA	2:1U:254:LYS:HD3	1.79	0.62
2:1V:270:PRO:HG2	2:1V:302:MET:HB2	1.80	0.62
2:1Z:181:VAL:HG11	1:2N:258:ASN:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2B:71:GLU:HB3	1:2B:98:ASP:HB3	1.80	0.62
1:2M:71:GLU:HB3	1:2M:98:ASP:HB3	1.80	0.62
2:2S:72:PRO:CG	1:3F:2:ARG:CG	2.77	0.62
2:2T:250:ALA:HA	2:2T:254:LYS:HD3	1.79	0.62
2:2T:398:MET:HG2	1:3G:346:TRP:O	1.98	0.62
2:2T:406:HIS:CE1	1:3G:263:PRO:CA	2.81	0.62
2:2U:250:ALA:HA	2:2U:254:LYS:HD3	1.79	0.62
2:2W:72:PRO:HD2	1:3K:2:ARG:CG	2.29	0.62
2:2Y:221:THR:C	1:3M:324:VAL:HG11	2.19	0.62
2:2Y:403:ALA:HB1	1:3M:261:PRO:HB2	1.80	0.62
1:3B:71:GLU:HB3	1:3B:98:ASP:HB3	1.80	0.62
1:3J:71:GLU:HB3	1:3J:98:ASP:HB3	1.80	0.62
1:3K:5:ILE:HG22	1:3K:64:ARG:HB3	1.81	0.62
1:3M:5:ILE:HG22	1:3M:64:ARG:HB3	1.81	0.62
2:3T:250:ALA:HA	2:3T:254:LYS:HD3	1.79	0.62
2:3V:270:PRO:HG2	2:3V:302:MET:HB2	1.80	0.62
2:4R:283:TYR:OH	2:4S:85:GLN:O	2.05	0.62
2:4T:250:ALA:HA	2:4T:254:LYS:HD3	1.80	0.62
2:4T:270:PRO:HG2	2:4T:302:MET:HB2	1.80	0.62
2:4U:270:PRO:HG2	2:4U:302:MET:HB2	1.80	0.62
1:1B:71:GLU:HB3	1:1B:98:ASP:HB3	1.80	0.62
1:1B:262:TYR:CE1	2:4O:402:LYS:O	2.51	0.62
1:1F:261:PRO:C	2:4S:406:HIS:CD2	2.72	0.62
1:1F:261:PRO:O	2:4S:406:HIS:CD2	2.51	0.62
1:1F:347:CYS:HA	2:4S:398:MET:CG	2.29	0.62
1:1G:326:LYS:HA	2:4T:210:TYR:CD1	2.34	0.62
1:1J:263:PRO:N	2:4V:406:HIS:CE1	2.68	0.62
1:1K:5:ILE:HG22	1:1K:64:ARG:HB3	1.81	0.62
1:1M:71:GLU:HB3	1:1M:98:ASP:HB3	1.80	0.62
1:1M:349:THR:OG1	2:4Y:184:PRO:CD	2.46	0.62
2:1S:316:ALA:HB3	2:1S:378:ILE:HB	1.80	0.62
2:1T:250:ALA:HA	2:1T:254:LYS:HD3	1.80	0.62
2:1W:270:PRO:HG2	2:1W:302:MET:HB2	1.80	0.62
2:1Z:394:GLN:HG2	1:2N:348:PRO:CG	2.30	0.62
1:2M:5:ILE:HG22	1:2M:64:ARG:HB3	1.81	0.62
2:2H:403:ALA:CB	1:3A:262:TYR:CZ	2.81	0.62
2:2U:270:PRO:HG2	2:2U:302:MET:HB2	1.80	0.62
2:2V:270:PRO:HG2	2:2V:302:MET:HB2	1.80	0.62
2:2Z:177:VAL:HG23	1:3N:332:ILE:CG2	2.28	0.62
1:3M:71:GLU:HB3	1:3M:98:ASP:HB3	1.80	0.62
2:3T:270:PRO:HG2	2:3T:302:MET:HB2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4B:5:ILE:HG22	1:4B:64:ARG:HB3	1.81	0.62
1:4M:5:ILE:HG22	1:4M:64:ARG:HB3	1.81	0.62
2:4U:250:ALA:HA	2:4U:254:LYS:HD3	1.80	0.62
1:1A:258:ASN:ND2	2:4H:101:ASN:ND2	2.47	0.62
1:1B:5:ILE:HG22	1:1B:64:ARG:HB3	1.81	0.62
1:1B:349:THR:OG1	2:4O:184:PRO:HD3	1.99	0.62
1:1D:253:THR:HB	2:4Q:100:GLY:HA2	1.80	0.62
1:1F:314:ALA:HB2	2:4S:404:PHE:HZ	1.65	0.62
1:1J:2:ARG:HG3	2:4V:72:PRO:HG3	1.79	0.62
1:1L:332:ILE:CG2	2:4X:177:VAL:HG23	2.29	0.62
1:1M:2:ARG:CG	2:4Y:72:PRO:HG2	2.28	0.62
1:1N:262:TYR:CZ	2:4Z:403:ALA:CB	2.82	0.62
2:1R:178:SER:HB3	1:2E:349:THR:CB	2.29	0.62
2:1R:214:PHE:CG	1:2E:326:LYS:CE	2.82	0.62
2:1X:182:VAL:HG21	1:2L:257:THR:HG21	1.77	0.62
1:2A:71:GLU:HB3	1:2A:98:ASP:HB3	1.80	0.62
1:2B:5:ILE:HG22	1:2B:64:ARG:HB3	1.81	0.62
2:2O:71:GLU:HB2	1:3B:2:ARG:HD3	1.80	0.62
2:2S:316:ALA:HB3	2:2S:378:ILE:HB	1.80	0.62
2:2T:178:SER:HB3	1:3G:349:THR:HA	1.80	0.62
2:2V:100:GLY:CA	1:3J:253:THR:HB	2.29	0.62
2:2V:214:PHE:CD1	1:3J:326:LYS:CE	2.83	0.62
2:2V:214:PHE:CG	1:3J:326:LYS:CE	2.81	0.62
2:2W:100:GLY:CA	1:3K:253:THR:HB	2.26	0.62
2:2W:177:VAL:HG23	1:3K:332:ILE:HG21	1.81	0.62
2:2W:406:HIS:CE1	1:3K:263:PRO:HB3	2.35	0.62
1:3B:5:ILE:HG22	1:3B:64:ARG:HB3	1.81	0.62
1:4A:71:GLU:HB3	1:4A:98:ASP:HB3	1.80	0.62
2:4S:316:ALA:HB3	2:4S:378:ILE:HB	1.80	0.62
1:1E:5:ILE:HG22	1:1E:64:ARG:HB3	1.81	0.62
1:1E:260:VAL:CG1	2:4R:407:TRP:NE1	2.61	0.62
1:1M:326:LYS:HA	2:4Y:210:TYR:CE1	2.34	0.62
1:1N:346:TRP:CZ3	2:4Z:404:PHE:CE2	2.87	0.62
2:1P:214:PHE:CD1	1:2C:326:LYS:CE	2.82	0.62
2:1Q:11:GLN:HE22	1:2D:249:ASN:H	1.45	0.62
2:1Q:316:ALA:HB3	2:1Q:378:ILE:HB	1.80	0.62
2:1T:100:GLY:CA	1:2G:253:THR:HG22	2.29	0.62
2:1U:283:TYR:OH	2:1V:85:GLN:O	2.05	0.62
2:1X:316:ALA:HB3	2:1X:378:ILE:HB	1.80	0.62
2:2H:403:ALA:HB2	1:3A:262:TYR:OH	1.98	0.62
2:2Q:316:ALA:HB3	2:2Q:378:ILE:HB	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2R:403:ALA:CB	1:3E:262:TYR:CZ	2.81	0.62
2:2X:316:ALA:HB3	2:2X:378:ILE:HB	1.80	0.62
2:2Y:222:PRO:O	1:3M:325:PRO:HD2	1.99	0.62
1:3A:71:GLU:HB3	1:3A:98:ASP:HB3	1.80	0.62
1:3K:71:GLU:HB3	1:3K:98:ASP:HB3	1.80	0.62
2:3Q:316:ALA:HB3	2:3Q:378:ILE:HB	1.80	0.62
2:3S:316:ALA:HB3	2:3S:378:ILE:HB	1.80	0.62
1:4K:71:GLU:HB3	1:4K:98:ASP:HB3	1.80	0.62
2:4Q:316:ALA:HB3	2:4Q:378:ILE:HB	1.80	0.62
1:1A:71:GLU:HB3	1:1A:98:ASP:HB3	1.80	0.62
1:1E:314:ALA:HB2	2:4R:404:PHE:CZ	2.35	0.62
1:1E:349:THR:CG2	2:4R:394:GLN:OE1	2.48	0.62
1:1L:2:ARG:CG	2:4X:72:PRO:CG	2.77	0.62
2:1R:100:GLY:HA2	1:2E:253:THR:HB	1.81	0.62
2:1T:181:VAL:H	1:2G:258:ASN:HD22	0.67	0.62
1:2E:5:ILE:HG22	1:2E:64:ARG:HB3	1.81	0.62
1:2K:71:GLU:HB3	1:2K:98:ASP:HB3	1.80	0.62
2:2H:221:THR:CA	1:3A:324:VAL:HG11	2.28	0.62
2:2O:406:HIS:NE2	1:3B:263:PRO:N	2.47	0.62
2:2Q:406:HIS:NE2	1:3D:262:TYR:C	2.53	0.62
2:2T:394:GLN:CG	1:3G:348:PRO:HG2	2.29	0.62
2:2W:222:PRO:CD	1:3K:326:LYS:CB	2.77	0.62
1:3E:5:ILE:HG22	1:3E:64:ARG:HB3	1.81	0.62
2:3X:316:ALA:HB3	2:3X:378:ILE:HB	1.80	0.62
2:4X:316:ALA:HB3	2:4X:378:ILE:HB	1.80	0.62
1:1A:262:TYR:CE2	2:4H:403:ALA:HB2	2.35	0.62
1:1A:263:PRO:N	2:4H:406:HIS:CD2	2.68	0.62
1:1B:260:VAL:CG1	2:4O:407:TRP:HE1	2.12	0.62
1:1G:262:TYR:CE1	2:4T:402:LYS:O	2.53	0.62
1:1I:348:PRO:HD2	2:4U:398:MET:CG	2.29	0.62
1:1J:346:TRP:CZ3	2:4V:404:PHE:HE2	2.15	0.62
1:1K:71:GLU:HB3	1:1K:98:ASP:HB3	1.80	0.62
1:1L:2:ARG:HG3	2:4X:72:PRO:HG2	1.80	0.62
1:1M:257:THR:CG2	2:4Y:100:GLY:O	2.47	0.62
1:1M:262:TYR:OH	2:4Y:403:ALA:CA	2.48	0.62
2:1H:316:ALA:HB3	2:1H:378:ILE:HB	1.80	0.62
2:1Q:222:PRO:HD2	1:2D:326:LYS:HB2	1.80	0.62
1:2J:5:ILE:HG22	1:2J:64:ARG:HB3	1.81	0.62
2:2P:316:ALA:HB3	2:2P:378:ILE:HB	1.80	0.62
2:2P:394:GLN:CG	1:3C:348:PRO:HG2	2.27	0.62
2:2Q:394:GLN:HG2	1:3D:348:PRO:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2X:177:VAL:HG23	1:3L:332:ILE:CG2	2.29	0.62
2:2Z:394:GLN:CG	1:3N:348:PRO:HG2	2.29	0.62
2:2Z:394:GLN:CG	1:3N:348:PRO:CG	2.72	0.62
2:3H:316:ALA:HB3	2:3H:378:ILE:HB	1.80	0.62
2:3P:316:ALA:HB3	2:3P:378:ILE:HB	1.80	0.62
2:3U:283:TYR:OH	2:3V:85:GLN:O	2.05	0.62
1:4E:5:ILE:HG22	1:4E:64:ARG:HB3	1.81	0.62
1:4J:5:ILE:HG22	1:4J:64:ARG:HB3	1.81	0.62
2:4P:316:ALA:HB3	2:4P:378:ILE:HB	1.80	0.62
1:1A:261:PRO:CB	2:4H:404:PHE:CG	2.83	0.62
1:1D:351:PHE:HB3	2:4Q:178:SER:O	1.93	0.62
1:1F:325:PRO:HD2	2:4S:223:THR:HA	1.80	0.62
1:1G:314:ALA:HB2	2:4T:404:PHE:CZ	2.34	0.62
1:1J:348:PRO:HG3	2:4V:394:GLN:CB	2.29	0.62
2:1O:221:THR:HA	1:2B:324:VAL:HG11	1.80	0.62
2:1P:178:SER:CB	1:2C:349:THR:HB	2.30	0.62
2:1P:316:ALA:HB3	2:1P:378:ILE:HB	1.80	0.62
2:1S:176:LYS:O	1:2F:336:LYS:NZ	2.33	0.62
2:1Z:316:ALA:HB3	2:1Z:378:ILE:HB	1.80	0.62
2:2H:101:ASN:HB2	1:3A:254:GLU:HG2	1.81	0.62
2:2H:316:ALA:HB3	2:2H:378:ILE:HB	1.80	0.62
2:2O:178:SER:O	1:3B:351:PHE:O	2.17	0.62
2:2U:394:GLN:CG	1:3I:348:PRO:HG2	2.30	0.62
2:2Z:100:GLY:HA2	1:3N:253:THR:CG2	2.26	0.62
2:2Z:316:ALA:HB3	2:2Z:378:ILE:HB	1.80	0.62
1:3J:5:ILE:HG22	1:3J:64:ARG:HB3	1.81	0.62
2:3Z:316:ALA:HB3	2:3Z:378:ILE:HB	1.80	0.62
2:4H:316:ALA:HB3	2:4H:378:ILE:HB	1.80	0.62
2:4Z:316:ALA:HB3	2:4Z:378:ILE:HB	1.80	0.62
1:1B:253:THR:CG2	2:4O:100:GLY:CA	2.77	0.62
1:1C:346:TRP:O	2:4P:398:MET:CA	2.48	0.62
1:1D:253:THR:CB	2:4Q:100:GLY:CA	2.78	0.62
1:1D:261:PRO:HB2	2:4Q:404:PHE:N	2.13	0.62
1:1G:324:VAL:HG12	2:4T:222:PRO:O	1.97	0.62
1:1J:5:ILE:HG22	1:1J:64:ARG:HB3	1.81	0.62
1:1N:253:THR:HG22	2:4Z:100:GLY:CA	2.30	0.62
2:1X:394:GLN:HG2	1:2L:348:PRO:CG	2.29	0.62
2:1Y:404:PHE:CE2	1:2M:261:PRO:CA	2.82	0.62
2:2T:180:THR:N	1:3G:351:PHE:O	2.33	0.62
2:2U:221:THR:CA	1:3I:324:VAL:HG11	2.30	0.62
2:2U:283:TYR:OH	2:2V:85:GLN:O	2.05	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2X:406:HIS:CE1	1:3L:263:PRO:HB3	2.34	0.62
1:1A:346:TRP:CH2	2:4H:404:PHE:CE2	2.88	0.62
1:1B:326:LYS:HA	2:4O:210:TYR:CE1	2.34	0.62
1:1C:348:PRO:CG	2:4P:394:GLN:CA	2.72	0.62
1:1E:2:ARG:NH2	2:4R:73:GLY:CA	2.63	0.62
1:1E:346:TRP:CH2	2:4R:403:ALA:CB	2.82	0.62
1:1G:2:ARG:CG	2:4T:72:PRO:HG2	2.28	0.62
1:1J:2:ARG:CD	2:4V:72:PRO:CD	2.64	0.62
1:1L:324:VAL:HG21	2:4X:221:THR:OG1	2.00	0.62
1:1N:262:TYR:OH	2:4Z:403:ALA:CB	2.48	0.62
2:1S:100:GLY:HA2	1:2F:253:THR:CB	2.30	0.62
2:1U:404:PHE:CZ	1:2I:261:PRO:HB3	2.34	0.62
2:2O:316:ALA:HB3	2:2O:378:ILE:HB	1.80	0.62
2:2Z:181:VAL:H	1:3N:258:ASN:ND2	1.98	0.62
2:3O:316:ALA:HB3	2:3O:378:ILE:HB	1.80	0.62
2:4O:316:ALA:HB3	2:4O:378:ILE:HB	1.80	0.62
1:1B:261:PRO:HA	2:4O:404:PHE:CB	2.29	0.62
1:1B:325:PRO:O	2:4O:210:TYR:CZ	2.53	0.62
1:1D:349:THR:OG1	2:4Q:184:PRO:HG2	1.98	0.62
1:1E:325:PRO:HD2	2:4R:223:THR:HA	1.81	0.62
1:1F:351:PHE:HD2	2:4S:178:SER:OG	1.83	0.62
1:1G:261:PRO:O	2:4T:406:HIS:HD2	1.82	0.62
1:1I:332:ILE:HB	2:4U:177:VAL:CG2	2.29	0.62
2:1U:176:LYS:O	1:2I:336:LYS:NZ	2.33	0.62
2:2O:401:ARG:NH2	1:3B:434:GLU:C	2.51	0.62
2:2X:100:GLY:HA3	1:3L:253:THR:HG21	1.82	0.62
2:2Y:177:VAL:HG23	1:3M:332:ILE:HG21	1.80	0.62
1:1A:253:THR:HB	2:4H:100:GLY:HA2	1.82	0.61
1:1D:254:GLU:HA	2:4Q:100:GLY:O	1.99	0.61
1:1I:258:ASN:HD21	2:4U:101:ASN:ND2	1.98	0.61
1:1I:260:VAL:HG12	2:4U:406:HIS:CE1	2.34	0.61
1:1K:260:VAL:CG1	2:4W:407:TRP:HZ2	2.13	0.61
1:1L:326:LYS:HA	2:4X:210:TYR:CE1	2.35	0.61
1:1M:261:PRO:CA	2:4Y:404:PHE:CD1	2.82	0.61
2:1O:316:ALA:HB3	2:1O:378:ILE:HB	1.80	0.61
2:1P:222:PRO:HD2	1:2C:326:LYS:CB	2.29	0.61
2:1P:404:PHE:CD1	1:2C:261:PRO:HA	2.34	0.61
2:1T:100:GLY:HA3	1:2G:253:THR:CG2	2.29	0.61
2:1W:179:ASP:OD2	1:2K:248:LEU:HD21	2.00	0.61
1:2A:5:ILE:HG22	1:2A:64:ARG:HB3	1.81	0.61
2:2O:404:PHE:CA	1:3B:261:PRO:HA	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Q:222:PRO:HD2	1:3D:326:LYS:HB3	1.80	0.61
2:2Q:404:PHE:CG	1:3D:261:PRO:CA	2.81	0.61
2:2U:407:TRP:HE1	1:3I:260:VAL:HB	1.65	0.61
2:2X:178:SER:HB2	1:3L:349:THR:HB	1.81	0.61
1:1A:248:LEU:HD22	2:4H:224:TYR:OH	1.99	0.61
1:1E:2:ARG:CD	2:4R:72:PRO:CG	2.76	0.61
1:1F:5:ILE:HG22	1:1F:64:ARG:HB3	1.81	0.61
1:1I:260:VAL:CG1	2:4U:407:TRP:HZ2	2.12	0.61
1:1K:260:VAL:HG11	2:4W:407:TRP:HZ2	1.66	0.61
1:1K:439:SER:OG	2:4W:401:ARG:HD3	2.00	0.61
1:1M:260:VAL:HB	2:4Y:407:TRP:HE1	1.64	0.61
1:1N:5:ILE:HG22	1:1N:64:ARG:HB3	1.81	0.61
1:1N:326:LYS:CB	2:4Z:222:PRO:HD2	2.30	0.61
2:1Q:403:ALA:HB2	1:2D:262:TYR:CZ	2.35	0.61
2:1S:222:PRO:CG	1:2F:326:LYS:HB2	2.30	0.61
2:1Z:100:GLY:CA	1:2N:253:THR:CB	2.71	0.61
2:2P:223:THR:HA	1:3C:325:PRO:HD2	1.81	0.61
2:2Y:177:VAL:HG23	1:3M:332:ILE:CG2	2.30	0.61
1:3A:5:ILE:HG22	1:3A:64:ARG:HB3	1.81	0.61
1:4A:5:ILE:HG22	1:4A:64:ARG:HB3	1.81	0.61
2:4U:283:TYR:OH	2:4V:85:GLN:O	2.05	0.61
1:1A:5:ILE:HG22	1:1A:64:ARG:HB3	1.81	0.61
1:1C:247:ALA:HB1	2:4P:224:TYR:HD2	1.65	0.61
1:1F:329:ASN:ND2	2:4S:207:GLU:OE1	2.32	0.61
1:1K:263:PRO:N	2:4W:406:HIS:CE1	2.69	0.61
2:1R:214:PHE:CB	1:2E:326:LYS:HE2	2.28	0.61
2:1V:182:VAL:CG2	1:2J:257:THR:HG22	2.31	0.61
2:2T:394:GLN:HG2	1:3G:348:PRO:CB	2.30	0.61
2:2W:394:GLN:CG	1:3K:348:PRO:HG2	2.30	0.61
2:2X:404:PHE:CZ	1:3L:261:PRO:CB	2.79	0.61
1:3F:5:ILE:HG22	1:3F:64:ARG:HB3	1.81	0.61
1:1B:326:LYS:CE	2:4O:214:PHE:CB	2.73	0.61
1:1C:258:ASN:O	2:4P:181:VAL:HB	2.00	0.61
1:1C:349:THR:HG21	2:4P:184:PRO:HG3	1.82	0.61
1:1D:261:PRO:CA	2:4Q:404:PHE:CD1	2.84	0.61
1:1D:347:CYS:HA	2:4Q:398:MET:HG2	1.82	0.61
1:1E:257:THR:HG21	2:4R:101:ASN:O	2.01	0.61
1:1E:262:TYR:C	2:4R:406:HIS:CE1	2.72	0.61
1:1E:345:ASP:O	2:4R:397:ALA:HB1	2.00	0.61
1:1E:346:TRP:HH2	2:4R:404:PHE:CE2	2.18	0.61
1:1G:314:ALA:HB2	2:4T:404:PHE:HZ	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:332:ILE:CB	2:4T:177:VAL:CG2	2.78	0.61
1:1J:441:GLU:O	2:4V:400:ARG:NH1	2.32	0.61
1:1K:353:VAL:HB	2:4W:179:ASP:OD1	2.00	0.61
1:1N:348:PRO:HG3	2:4Z:394:GLN:CB	2.30	0.61
2:1O:181:VAL:N	1:2B:258:ASN:HD22	1.99	0.61
2:1X:404:PHE:CZ	1:2L:261:PRO:CA	2.84	0.61
1:2F:5:ILE:HG22	1:2F:64:ARG:HB3	1.81	0.61
1:2I:5:ILE:HG22	1:2I:64:ARG:HB3	1.81	0.61
2:2O:178:SER:O	1:3B:351:PHE:CB	2.49	0.61
2:2X:406:HIS:NE2	1:3L:263:PRO:CD	2.63	0.61
1:3I:5:ILE:HG22	1:3I:64:ARG:HB3	1.81	0.61
1:3N:5:ILE:HG22	1:3N:64:ARG:HB3	1.81	0.61
1:1C:261:PRO:CB	2:4P:404:PHE:CD2	2.66	0.61
1:1E:435:VAL:CA	2:4R:401:ARG:NH2	2.63	0.61
1:1I:262:TYR:OH	2:4U:401:ARG:O	2.15	0.61
1:1M:258:ASN:ND2	2:4Y:180:THR:HG23	2.15	0.61
2:1H:401:ARG:NH2	1:2A:434:GLU:O	2.33	0.61
2:1O:221:THR:OG1	1:2B:324:VAL:CG2	2.47	0.61
2:1P:214:PHE:CD1	1:2C:326:LYS:HE3	2.35	0.61
2:1Q:221:THR:OG1	1:2D:324:VAL:HG11	1.99	0.61
2:1V:181:VAL:CB	1:2J:258:ASN:CA	2.70	0.61
2:1V:394:GLN:HG2	1:2J:348:PRO:CG	2.30	0.61
2:1Z:401:ARG:NH2	1:2N:434:GLU:O	2.33	0.61
2:2O:397:ALA:O	1:3B:346:TRP:CB	2.49	0.61
2:2S:100:GLY:O	1:3F:257:THR:CB	2.48	0.61
2:2T:397:ALA:O	1:3G:346:TRP:CB	2.48	0.61
2:2V:179:ASP:O	1:3J:352:LYS:HD2	2.00	0.61
1:4F:5:ILE:HG22	1:4F:64:ARG:HB3	1.81	0.61
1:4I:5:ILE:HG22	1:4I:64:ARG:HB3	1.81	0.61
1:1A:257:THR:HG21	2:4H:101:ASN:C	2.20	0.61
1:1C:346:TRP:HA	2:4P:397:ALA:C	2.21	0.61
1:1E:346:TRP:O	2:4R:398:MET:CB	2.48	0.61
1:1G:262:TYR:C	2:4T:406:HIS:CD2	2.64	0.61
1:1I:326:LYS:HE2	2:4U:214:PHE:HB2	1.81	0.61
1:1I:351:PHE:O	2:4U:180:THR:HA	1.99	0.61
1:1K:332:ILE:CG2	2:4W:177:VAL:HG23	2.31	0.61
1:1L:439:SER:OG	2:4X:401:ARG:CG	2.49	0.61
2:1W:404:PHE:HE1	1:2K:260:VAL:H	1.48	0.61
2:1Z:221:THR:CA	1:2N:324:VAL:HG11	2.29	0.61
1:2N:5:ILE:HG22	1:2N:64:ARG:HB3	1.81	0.61
2:2Z:214:PHE:CD1	1:3N:326:LYS:CE	2.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4O:343:PHE:HB3	2:4O:350:ASN:HD21	1.66	0.61
1:1I:5:ILE:HG22	1:1I:64:ARG:HB3	1.81	0.61
1:1I:439:SER:OG	2:4U:401:ARG:HG2	1.99	0.61
1:1J:346:TRP:HZ3	2:4V:404:PHE:CE2	2.13	0.61
1:1M:348:PRO:CG	2:4Y:394:GLN:HB3	2.31	0.61
2:1Z:214:PHE:CD1	1:2N:326:LYS:HE3	2.35	0.61
2:2H:71:GLU:HB2	1:3A:2:ARG:HD3	1.82	0.61
2:2H:404:PHE:HE1	1:3A:260:VAL:N	1.98	0.61
2:2O:343:PHE:HB3	2:2O:350:ASN:HD21	1.66	0.61
2:2Q:394:GLN:OE1	1:3D:349:THR:CG2	2.48	0.61
2:2R:403:ALA:HA	1:3E:262:TYR:CE1	2.36	0.61
2:2S:214:PHE:CD1	1:3F:326:LYS:HE3	2.36	0.61
2:2U:404:PHE:CE1	1:3I:261:PRO:CA	2.84	0.61
2:2V:394:GLN:CG	1:3J:348:PRO:HG2	2.30	0.61
2:2Y:181:VAL:H	1:3M:258:ASN:ND2	1.98	0.61
2:3O:343:PHE:HB3	2:3O:350:ASN:HD21	1.66	0.61
1:4N:5:ILE:HG22	1:4N:64:ARG:HB3	1.81	0.61
1:1D:2:ARG:CG	2:4Q:72:PRO:HG2	2.21	0.61
1:1E:349:THR:OG1	2:4R:184:PRO:HG2	2.00	0.61
1:1G:262:TYR:OH	2:4T:403:ALA:N	2.34	0.61
2:1H:401:ARG:HB3	1:2A:262:TYR:OH	1.99	0.61
2:1O:343:PHE:HB3	2:1O:350:ASN:HD21	1.66	0.61
2:1Q:403:ALA:HB2	1:2D:262:TYR:OH	2.00	0.61
2:2R:77:SER:CB	1:3E:245:ASP:OD1	2.44	0.61
2:2Z:404:PHE:CG	1:3N:261:PRO:CA	2.76	0.61
1:1D:260:VAL:HG12	2:4Q:406:HIS:HE1	1.66	0.61
1:1E:262:TYR:CE2	2:4R:403:ALA:CB	2.84	0.61
1:1F:329:ASN:CB	2:4S:210:TYR:CD2	2.83	0.61
1:1G:260:VAL:HG11	2:4T:407:TRP:HZ2	1.65	0.61
1:1J:249:ASN:N	2:4V:11:GLN:OE1	2.33	0.61
1:1L:314:ALA:HB1	2:4X:181:VAL:HG21	1.83	0.61
1:1N:245:ASP:OD1	2:4Z:77:SER:CB	2.42	0.61
2:1P:221:THR:HA	1:2C:324:VAL:HG11	1.81	0.61
2:1V:221:THR:OG1	1:2J:324:VAL:CG1	2.49	0.61
2:1X:411:GLU:OE2	1:2L:163:LYS:NZ	2.33	0.61
2:1Z:214:PHE:CD1	1:2N:326:LYS:CE	2.83	0.61
2:2H:222:PRO:CG	1:3A:326:LYS:HB2	2.28	0.61
2:2H:394:GLN:CG	1:3A:348:PRO:CG	2.72	0.61
2:2H:404:PHE:CE1	1:3A:260:VAL:C	2.74	0.61
2:2X:394:GLN:CG	1:3L:348:PRO:HG2	2.30	0.61
2:3H:343:PHE:HB3	2:3H:350:ASN:HD21	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:248:LEU:HD22	2:4O:224:TYR:OH	2.01	0.61
1:1F:2:ARG:CD	2:4S:72:PRO:HG2	2.29	0.61
1:1G:5:ILE:HG22	1:1G:64:ARG:HB3	1.81	0.61
1:1G:348:PRO:CG	2:4T:394:GLN:CG	2.79	0.61
1:1I:2:ARG:NE	2:4U:72:PRO:HG2	2.16	0.61
1:1I:349:THR:CG2	2:4U:184:PRO:CG	2.79	0.61
2:1O:181:VAL:HG23	1:2B:258:ASN:HB3	1.83	0.61
2:1Y:100:GLY:CA	1:2M:253:THR:HB	2.04	0.61
2:2H:343:PHE:HB3	2:2H:350:ASN:HD21	1.66	0.61
2:2O:404:PHE:CD1	1:3B:261:PRO:CA	2.84	0.61
2:2P:404:PHE:CD2	1:3C:261:PRO:CB	2.80	0.61
2:2X:177:VAL:HG23	1:3L:332:ILE:HG21	1.81	0.61
2:4H:343:PHE:HB3	2:4H:350:ASN:HD21	1.66	0.61
1:1C:346:TRP:O	2:4P:398:MET:N	2.34	0.60
1:1E:346:TRP:CE3	2:4R:403:ALA:HB3	2.35	0.60
2:1H:343:PHE:HB3	2:1H:350:ASN:HD21	1.66	0.60
2:1U:180:THR:HA	1:2I:258:ASN:ND2	2.16	0.60
2:2O:101:ASN:HB2	1:3B:254:GLU:HG2	1.83	0.60
2:2O:221:THR:HA	1:3B:324:VAL:HG11	1.83	0.60
1:1G:351:PHE:O	2:4T:180:THR:HA	1.98	0.60
1:1I:314:ALA:CB	2:4U:181:VAL:HG11	2.31	0.60
1:1I:348:PRO:HB2	2:4U:394:GLN:HG2	1.83	0.60
1:1J:2:ARG:HG3	2:4V:72:PRO:HG2	1.81	0.60
1:1L:437:VAL:O	2:4X:401:ARG:NH1	2.28	0.60
2:1P:343:PHE:HB3	2:1P:350:ASN:HD21	1.66	0.60
1:2G:5:ILE:HG22	1:2G:64:ARG:HB3	1.81	0.60
2:2P:343:PHE:HB3	2:2P:350:ASN:HD21	1.66	0.60
2:2R:210:TYR:CE2	1:3E:329:ASN:HB2	2.37	0.60
2:2R:394:GLN:CG	1:3E:348:PRO:HG3	2.27	0.60
2:2U:222:PRO:CD	1:3I:326:LYS:CB	2.79	0.60
1:3G:5:ILE:HG22	1:3G:64:ARG:HB3	1.81	0.60
2:3P:343:PHE:HB3	2:3P:350:ASN:HD21	1.66	0.60
1:1A:324:VAL:CG1	2:4H:222:PRO:O	2.49	0.60
1:1B:262:TYR:CZ	2:4O:403:ALA:HB2	2.37	0.60
1:1B:329:ASN:CB	2:4O:210:TYR:CD2	2.83	0.60
1:1C:348:PRO:CG	2:4P:394:GLN:HA	2.20	0.60
1:1G:332:ILE:CB	2:4T:177:VAL:HG23	2.31	0.60
1:1K:262:TYR:C	2:4W:406:HIS:CE1	2.75	0.60
1:1L:333:ALA:HB1	2:4X:176:LYS:HE2	1.82	0.60
1:1M:351:PHE:CB	2:4Y:178:SER:O	2.35	0.60
1:1N:257:THR:HG21	2:4Z:101:ASN:C	2.21	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1H:100:GLY:CA	1:2A:253:THR:HB	2.21	0.60
2:1Q:222:PRO:HD2	1:2D:326:LYS:HB3	1.80	0.60
2:2H:72:PRO:HD2	1:3A:2:ARG:HD3	1.84	0.60
2:2H:223:THR:HA	1:3A:325:PRO:HD2	1.82	0.60
2:2X:176:LYS:HE2	1:3L:333:ALA:CB	2.31	0.60
2:2X:222:PRO:O	1:3L:325:PRO:HD2	2.00	0.60
2:2Y:394:GLN:CG	1:3M:348:PRO:HG2	2.30	0.60
1:4G:5:ILE:HG22	1:4G:64:ARG:HB3	1.81	0.60
1:1B:257:THR:HG21	2:4O:101:ASN:C	2.21	0.60
1:1C:2:ARG:NH2	2:4P:73:GLY:CA	2.64	0.60
1:1D:346:TRP:O	2:4Q:398:MET:HA	2.01	0.60
1:1E:253:THR:HB	2:4R:100:GLY:CA	2.32	0.60
1:1E:329:ASN:HB3	2:4R:210:TYR:CD2	2.36	0.60
1:1E:346:TRP:CB	2:4R:398:MET:HA	2.23	0.60
1:1G:1:MET:O	2:4T:96:GLN:OE1	2.19	0.60
1:1J:348:PRO:HG3	2:4V:394:GLN:CA	2.32	0.60
1:1K:2:ARG:HD3	2:4W:72:PRO:CG	2.31	0.60
1:1M:348:PRO:CB	2:4Y:394:GLN:HG2	2.31	0.60
1:1N:262:TYR:OH	2:4Z:403:ALA:CA	2.48	0.60
2:1O:100:GLY:HA2	1:2B:253:THR:CB	2.30	0.60
2:1R:343:PHE:HB3	2:1R:350:ASN:HD21	1.66	0.60
2:1R:404:PHE:CZ	1:2E:261:PRO:CB	2.84	0.60
2:1U:181:VAL:CG2	1:2I:258:ASN:CB	2.75	0.60
2:1W:207:GLU:OE1	1:2K:329:ASN:ND2	2.34	0.60
2:1W:404:PHE:CE1	1:2K:260:VAL:N	2.69	0.60
2:1X:283:TYR:OH	2:1Y:85:GLN:O	2.05	0.60
2:2P:404:PHE:CD1	1:3C:261:PRO:CA	2.84	0.60
2:2S:72:PRO:CD	1:3F:2:ARG:HD3	2.28	0.60
2:2S:398:MET:HG2	1:3F:346:TRP:O	2.00	0.60
2:4P:343:PHE:HB3	2:4P:350:ASN:HD21	1.66	0.60
1:1E:263:PRO:HD3	2:4R:406:HIS:HB3	1.82	0.60
1:1I:314:ALA:HB1	2:4U:181:VAL:HG21	1.83	0.60
1:1J:248:LEU:HD13	5:4V:501:GDP:C8	2.36	0.60
1:1J:248:LEU:HD13	5:4V:501:GDP:H8	1.65	0.60
1:1J:439:SER:OG	2:4V:401:ARG:HD3	2.01	0.60
2:2Q:11:GLN:NE2	1:3D:249:ASN:N	2.29	0.60
2:2R:101:ASN:ND2	1:3E:258:ASN:CG	2.54	0.60
2:2R:179:ASP:O	1:3E:352:LYS:HD2	2.01	0.60
2:2W:214:PHE:CB	1:3K:326:LYS:CE	2.64	0.60
2:3R:343:PHE:HB3	2:3R:350:ASN:HD21	1.66	0.60
2:4R:343:PHE:HB3	2:4R:350:ASN:HD21	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:261:PRO:N	2:4O:404:PHE:CD1	2.69	0.60
1:1C:254:GLU:HA	2:4P:100:GLY:C	2.22	0.60
1:1C:261:PRO:N	2:4P:404:PHE:CD1	2.69	0.60
1:1J:253:THR:C	2:4V:100:GLY:HA2	2.21	0.60
1:1K:346:TRP:CZ3	2:4W:404:PHE:HD2	2.15	0.60
1:1L:260:VAL:HG11	2:4X:407:TRP:HZ2	1.67	0.60
1:1M:258:ASN:HD21	2:4Y:180:THR:HG23	1.66	0.60
1:1M:348:PRO:HG2	2:4Y:394:GLN:HB3	1.82	0.60
1:1N:260:VAL:HB	2:4Z:407:TRP:HE1	1.66	0.60
2:1Q:343:PHE:HB3	2:1Q:350:ASN:HD21	1.66	0.60
2:1R:100:GLY:HA2	1:2E:253:THR:CG2	2.31	0.60
2:2R:343:PHE:HB3	2:2R:350:ASN:HD21	1.66	0.60
2:2U:404:PHE:CZ	1:3I:261:PRO:CB	2.79	0.60
2:2X:181:VAL:H	1:3L:258:ASN:HD22	1.49	0.60
2:2Z:214:PHE:CG	1:3N:326:LYS:HE2	2.32	0.60
2:3Q:343:PHE:HB3	2:3Q:350:ASN:HD21	1.66	0.60
2:3S:343:PHE:HB3	2:3S:350:ASN:HD21	1.66	0.60
1:1F:2:ARG:NE	2:4S:72:PRO:HG2	2.16	0.60
1:1I:349:THR:CG2	2:4U:184:PRO:CD	2.75	0.60
1:1N:314:ALA:HB2	2:4Z:181:VAL:HG11	1.82	0.60
2:2R:180:THR:N	1:3E:351:PHE:O	2.34	0.60
2:2R:222:PRO:CG	1:3E:326:LYS:HB2	2.24	0.60
2:2X:283:TYR:OH	2:2Y:85:GLN:O	2.05	0.60
2:2Z:403:ALA:CB	1:3N:262:TYR:CE2	2.84	0.60
2:3T:343:PHE:HB3	2:3T:350:ASN:HD21	1.66	0.60
2:3X:283:TYR:OH	2:3Y:85:GLN:O	2.05	0.60
2:4S:343:PHE:HB3	2:4S:350:ASN:HD21	1.66	0.60
1:1B:326:LYS:HB3	2:4O:222:PRO:HD2	1.83	0.60
1:1M:260:VAL:CB	2:4Y:407:TRP:HE1	2.14	0.60
1:1M:260:VAL:HG11	2:4Y:407:TRP:HZ2	1.66	0.60
2:1P:178:SER:HB2	1:2C:349:THR:HB	1.83	0.60
2:1R:178:SER:HB3	1:2E:349:THR:HB	1.82	0.60
2:1T:343:PHE:HB3	2:1T:350:ASN:HD21	1.66	0.60
2:1V:222:PRO:HD2	1:2J:326:LYS:HB3	1.83	0.60
2:1Y:180:THR:HA	1:2M:352:LYS:HD3	1.83	0.60
2:1Z:403:ALA:HB2	1:2N:262:TYR:CZ	2.37	0.60
2:2H:394:GLN:OE1	1:3A:349:THR:CG2	2.49	0.60
2:2H:404:PHE:CG	1:3A:261:PRO:CA	2.80	0.60
2:2O:404:PHE:CE2	1:3B:261:PRO:CB	2.75	0.60
2:2Q:343:PHE:HB3	2:2Q:350:ASN:HD21	1.66	0.60
2:2Q:403:ALA:CA	1:3D:262:TYR:CZ	2.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2S:177:VAL:CG2	1:3F:332:ILE:HG21	2.31	0.60
2:2S:343:PHE:HB3	2:2S:350:ASN:HD21	1.66	0.60
2:2T:100:GLY:HA2	1:3G:253:THR:C	2.22	0.60
2:2U:178:SER:O	1:3I:351:PHE:O	2.20	0.60
2:2U:398:MET:HG2	1:3I:346:TRP:O	2.02	0.60
2:2X:403:ALA:HA	1:3L:262:TYR:CZ	2.36	0.60
2:2Y:397:ALA:O	1:3M:346:TRP:HB2	2.01	0.60
2:3Z:343:PHE:HB3	2:3Z:350:ASN:HD21	1.66	0.60
2:4Z:343:PHE:HB3	2:4Z:350:ASN:HD21	1.66	0.60
1:1A:261:PRO:C	2:4H:404:PHE:H	2.03	0.60
1:1A:346:TRP:CH2	2:4H:404:PHE:HE2	2.20	0.60
1:1B:324:VAL:HG12	2:4O:222:PRO:O	2.02	0.60
1:1D:261:PRO:C	2:4Q:404:PHE:HA	2.21	0.60
1:1E:346:TRP:CZ3	2:4R:403:ALA:HB3	2.36	0.60
1:1E:347:CYS:HA	2:4R:398:MET:CG	2.31	0.60
1:1G:326:LYS:HA	2:4T:210:TYR:CZ	2.36	0.60
1:1K:260:VAL:HB	2:4W:407:TRP:HE1	1.67	0.60
2:1Q:224:TYR:OH	1:2D:248:LEU:HD22	2.02	0.60
2:1S:343:PHE:HB3	2:1S:350:ASN:HD21	1.66	0.60
2:2H:179:ASP:OD1	1:3A:353:VAL:HB	2.01	0.60
2:2O:72:PRO:HD2	1:3B:2:ARG:CD	2.31	0.60
2:2O:404:PHE:HE1	1:3B:260:VAL:N	1.99	0.60
2:2P:71:GLU:HB2	1:3C:2:ARG:HD3	1.82	0.60
2:2T:221:THR:C	1:3G:324:VAL:HG11	2.21	0.60
2:2T:343:PHE:HB3	2:2T:350:ASN:HD21	1.66	0.60
2:2V:221:THR:HA	1:3J:324:VAL:HG11	1.84	0.60
2:2Z:214:PHE:CB	1:3N:326:LYS:CE	2.67	0.60
2:4Q:343:PHE:HB3	2:4Q:350:ASN:HD21	1.66	0.60
1:1A:348:PRO:HG2	2:4H:394:GLN:CB	2.32	0.60
1:1B:261:PRO:HB2	2:4O:403:ALA:HB1	1.84	0.60
1:1D:261:PRO:C	2:4Q:404:PHE:N	2.49	0.60
1:1E:260:VAL:HG11	2:4R:407:TRP:CZ2	2.37	0.60
1:1F:348:PRO:CB	2:4S:394:GLN:CG	2.69	0.60
2:1P:11:GLN:HE22	1:2C:249:ASN:H	1.49	0.60
2:1W:222:PRO:HD2	1:2K:326:LYS:CB	2.32	0.60
2:1W:411:GLU:OE2	1:2K:163:LYS:NZ	2.35	0.60
2:2S:100:GLY:HA2	1:3F:253:THR:C	2.21	0.60
2:2U:178:SER:HB2	1:3I:349:THR:HB	1.84	0.60
2:2Z:343:PHE:HB3	2:2Z:350:ASN:HD21	1.66	0.60
2:2Z:404:PHE:CZ	1:3N:261:PRO:HB3	2.34	0.60
2:4T:343:PHE:HB3	2:4T:350:ASN:HD21	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:262:TYR:CZ	2:4O:403:ALA:CB	2.84	0.59
1:1B:351:PHE:O	2:4O:180:THR:CA	2.50	0.59
1:1C:346:TRP:HB2	2:4P:398:MET:CA	2.28	0.59
1:1D:261:PRO:HB2	2:4Q:403:ALA:HB1	1.83	0.59
1:1E:258:ASN:HD21	2:4R:180:THR:CG2	2.13	0.59
2:1X:181:VAL:HG11	1:2L:258:ASN:O	2.01	0.59
2:1Z:343:PHE:HB3	2:1Z:350:ASN:HD21	1.66	0.59
2:2H:401:ARG:NH2	1:3A:435:VAL:HA	2.17	0.59
2:2Q:403:ALA:CB	1:3D:262:TYR:CE2	2.84	0.59
2:2R:407:TRP:HE1	1:3E:260:VAL:CB	2.13	0.59
2:2W:72:PRO:HD2	1:3K:2:ARG:HD3	1.83	0.59
2:2Z:221:THR:HG1	1:3N:324:VAL:HG21	1.60	0.59
1:1D:260:VAL:CG1	2:4Q:407:TRP:NE1	2.62	0.59
1:1D:261:PRO:O	2:4Q:404:PHE:CA	2.50	0.59
1:1J:260:VAL:HG11	2:4V:407:TRP:CZ2	2.38	0.59
1:1L:346:TRP:CE3	2:4X:403:ALA:HB3	2.37	0.59
1:1N:261:PRO:HA	2:4Z:404:PHE:CA	2.32	0.59
2:1R:404:PHE:CG	1:2E:261:PRO:HA	2.37	0.59
2:1V:11:GLN:NE2	1:2J:249:ASN:HD22	2.01	0.59
2:1X:11:GLN:NE2	1:2L:249:ASN:HB2	2.18	0.59
2:1Y:181:VAL:CA	1:2M:258:ASN:ND2	2.60	0.59
2:2O:11:GLN:CD	1:3B:249:ASN:H	2.05	0.59
2:2O:222:PRO:HD2	1:3B:326:LYS:HB3	1.82	0.59
2:2P:181:VAL:CG2	1:3C:258:ASN:O	2.49	0.59
2:2Q:403:ALA:HB2	1:3D:262:TYR:OH	2.02	0.59
2:2Y:223:THR:HA	1:3M:325:PRO:CD	2.32	0.59
1:1A:314:ALA:CB	2:4H:181:VAL:HG11	2.32	0.59
1:1C:351:PHE:O	2:4P:180:THR:C	2.41	0.59
1:1E:2:ARG:NH2	2:4R:73:GLY:HA3	2.17	0.59
1:1L:262:TYR:HA	2:4X:406:HIS:HD2	1.57	0.59
1:1N:248:LEU:HA	2:4Z:11:GLN:NE2	2.17	0.59
2:1R:404:PHE:CE1	1:2E:261:PRO:CA	2.85	0.59
2:1U:343:PHE:HB3	2:1U:350:ASN:HD21	1.66	0.59
2:2V:72:PRO:CG	1:3J:2:ARG:CG	2.80	0.59
2:2W:406:HIS:CE1	1:3K:263:PRO:CA	2.85	0.59
2:2Z:403:ALA:HA	1:3N:262:TYR:CE1	2.37	0.59
2:2Z:404:PHE:HE1	1:3N:260:VAL:N	1.99	0.59
1:1B:262:TYR:OH	2:4O:403:ALA:N	2.35	0.59
1:1E:258:ASN:ND2	2:4R:180:THR:CG2	2.62	0.59
1:1E:261:PRO:HB3	2:4R:404:PHE:CE2	2.36	0.59
1:1M:349:THR:CG2	2:4Y:184:PRO:HD3	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1N:346:TRP:CZ3	2:4Z:404:PHE:HE2	2.20	0.59
2:1Y:343:PHE:HB3	2:1Y:350:ASN:HD21	1.66	0.59
2:2R:177:VAL:HG23	1:3E:332:ILE:HG22	1.82	0.59
2:2R:404:PHE:CE1	1:3E:261:PRO:N	2.70	0.59
2:2S:406:HIS:CE1	1:3F:263:PRO:CA	2.85	0.59
2:2U:404:PHE:CA	1:3I:261:PRO:HA	2.32	0.59
2:3U:343:PHE:HB3	2:3U:350:ASN:HD21	1.66	0.59
2:4U:343:PHE:HB3	2:4U:350:ASN:HD21	1.66	0.59
1:1A:348:PRO:HG3	2:4H:394:GLN:CA	2.32	0.59
1:1B:248:LEU:CD1	5:4O:501:GDP:C8	2.77	0.59
1:1E:348:PRO:HD2	2:4R:398:MET:HG3	1.85	0.59
1:1F:261:PRO:CB	2:4S:404:PHE:CG	2.84	0.59
1:1I:351:PHE:O	2:4U:180:THR:C	2.40	0.59
1:1K:346:TRP:O	2:4W:398:MET:HA	2.00	0.59
1:1K:346:TRP:O	2:4W:398:MET:CA	2.50	0.59
1:1L:349:THR:O	2:4X:181:VAL:CA	2.45	0.59
1:1M:348:PRO:CG	2:4Y:394:GLN:HG2	2.33	0.59
2:1W:343:PHE:HB3	2:1W:350:ASN:HD21	1.66	0.59
2:1X:182:VAL:HG22	1:2L:257:THR:HG22	1.83	0.59
2:1Z:224:TYR:CD2	1:2N:247:ALA:O	2.56	0.59
2:2Q:101:ASN:N	1:3D:254:GLU:HG2	2.18	0.59
2:2U:343:PHE:HB3	2:2U:350:ASN:HD21	1.66	0.59
2:3Y:343:PHE:HB3	2:3Y:350:ASN:HD21	1.66	0.59
1:1I:346:TRP:CB	2:4U:397:ALA:O	2.50	0.59
1:1J:245:ASP:OD1	2:4V:77:SER:CB	2.35	0.59
1:1J:260:VAL:CB	2:4V:407:TRP:HE1	2.03	0.59
1:1J:348:PRO:HD2	2:4V:398:MET:CG	2.32	0.59
1:1J:351:PHE:CB	2:4V:178:SER:O	2.38	0.59
1:1L:349:THR:OG1	2:4X:184:PRO:CD	2.49	0.59
1:1L:353:VAL:HB	2:4X:179:ASP:OD1	2.03	0.59
2:1U:403:ALA:HB2	1:2I:262:TYR:OH	2.02	0.59
2:1X:343:PHE:HB3	2:1X:350:ASN:HD21	1.66	0.59
2:2O:404:PHE:CD2	1:3B:261:PRO:CB	2.80	0.59
2:2W:343:PHE:HB3	2:2W:350:ASN:HD21	1.66	0.59
2:2Y:343:PHE:HB3	2:2Y:350:ASN:HD21	1.66	0.59
2:3W:343:PHE:HB3	2:3W:350:ASN:HD21	1.66	0.59
2:4W:343:PHE:HB3	2:4W:350:ASN:HD21	1.66	0.59
1:1G:346:TRP:CZ3	2:4T:403:ALA:HB3	2.37	0.59
1:1K:2:ARG:CD	2:4W:72:PRO:CG	2.80	0.59
1:1M:261:PRO:HB3	2:4Y:404:PHE:CD1	2.37	0.59
2:1R:222:PRO:HG2	1:2E:326:LYS:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1V:401:ARG:NH2	1:2J:434:GLU:HG2	2.17	0.59
2:2X:343:PHE:HB3	2:2X:350:ASN:HD21	1.66	0.59
2:3X:343:PHE:HB3	2:3X:350:ASN:HD21	1.66	0.59
2:4V:343:PHE:HB3	2:4V:350:ASN:HD21	1.66	0.59
2:4Y:343:PHE:HB3	2:4Y:350:ASN:HD21	1.66	0.59
1:1B:1:MET:O	2:4O:96:GLN:OE1	2.20	0.59
1:1C:2:ARG:HG2	2:4P:72:PRO:HD2	1.81	0.59
1:1E:351:PHE:HB3	2:4R:178:SER:O	1.97	0.59
1:1G:348:PRO:HD2	2:4T:398:MET:CG	2.32	0.59
1:1I:349:THR:O	2:4U:181:VAL:O	2.20	0.59
1:1K:2:ARG:HG3	2:4W:72:PRO:HG2	1.83	0.59
2:1S:11:GLN:HE22	1:2F:249:ASN:H	1.51	0.59
2:1V:182:VAL:CG2	1:2J:257:THR:CG2	2.81	0.59
2:1V:222:PRO:CG	1:2J:326:LYS:HB2	2.33	0.59
2:2U:177:VAL:HG23	1:3I:332:ILE:HG22	1.85	0.59
2:2V:100:GLY:CA	1:3J:253:THR:CB	2.80	0.59
2:2V:100:GLY:HA2	1:3J:253:THR:CG2	2.25	0.59
2:2V:343:PHE:HB3	2:2V:350:ASN:HD21	1.66	0.59
2:2W:406:HIS:NE2	1:3K:262:TYR:C	2.56	0.59
2:2X:404:PHE:CA	1:3L:261:PRO:O	2.51	0.59
2:4X:343:PHE:HB3	2:4X:350:ASN:HD21	1.66	0.59
1:1C:257:THR:HG21	2:4P:101:ASN:C	2.23	0.59
1:1F:257:THR:HG21	2:4S:102:ASN:HB2	1.84	0.59
1:1I:262:TYR:CE2	2:4U:403:ALA:HA	2.37	0.59
1:1N:89:PRO:HD3	2:2Y:283:TYR:CD1	2.37	0.59
2:1V:343:PHE:HB3	2:1V:350:ASN:HD21	1.66	0.59
2:1X:100:GLY:O	1:2L:253:THR:HG22	2.02	0.59
2:2R:177:VAL:CG2	1:3E:332:ILE:HG21	2.33	0.59
2:2W:178:SER:O	1:3K:351:PHE:CB	2.50	0.59
2:3V:343:PHE:HB3	2:3V:350:ASN:HD21	1.66	0.59
1:1A:329:ASN:ND2	2:4H:210:TYR:CD2	2.52	0.59
1:1E:260:VAL:CB	2:4R:407:TRP:CE2	2.77	0.59
1:1F:349:THR:O	2:4S:181:VAL:O	2.21	0.59
2:1H:85:GLN:O	2:1Z:283:TYR:OH	2.05	0.59
2:1O:214:PHE:CB	1:2B:326:LYS:HE2	2.31	0.59
2:1S:222:PRO:HG2	1:2F:326:LYS:HB2	1.84	0.59
2:1U:181:VAL:HB	1:2I:258:ASN:CA	2.25	0.59
2:1V:404:PHE:CE1	1:2J:261:PRO:HA	2.38	0.59
2:2P:404:PHE:CG	1:3C:261:PRO:CA	2.82	0.59
2:2S:72:PRO:CD	1:3F:2:ARG:CG	2.81	0.59
2:2S:404:PHE:CA	1:3F:261:PRO:O	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2T:177:VAL:CG2	1:3G:332:ILE:HG21	2.33	0.59
1:1D:248:LEU:HA	2:4Q:11:GLN:NE2	2.17	0.58
1:1D:314:ALA:CB	2:4Q:181:VAL:CG1	2.71	0.58
1:1D:325:PRO:CB	2:4Q:224:TYR:CE1	2.85	0.58
1:1E:253:THR:CG2	2:4R:100:GLY:HA3	2.30	0.58
1:1F:247:ALA:O	2:4S:15:GLN:CD	2.40	0.58
1:1L:329:ASN:HB2	2:4X:210:TYR:HE2	1.68	0.58
1:1M:326:LYS:CE	2:4Y:214:PHE:HB2	2.33	0.58
2:1W:100:GLY:O	1:2K:253:THR:HG22	2.03	0.58
2:2R:11:GLN:NE2	1:3E:249:ASN:N	2.22	0.58
2:2R:100:GLY:HA2	1:3E:253:THR:C	2.23	0.58
2:2S:306:ASP:HB3	2:2S:309:HIS:HD2	1.68	0.58
2:2U:100:GLY:CA	1:3I:253:THR:HB	2.30	0.58
2:2U:101:ASN:C	1:3I:257:THR:HG21	2.23	0.58
2:2Y:214:PHE:CG	1:3M:326:LYS:HE3	2.35	0.58
2:2Y:406:HIS:CE1	1:3M:263:PRO:HB3	2.38	0.58
2:3S:306:ASP:HB3	2:3S:309:HIS:HD2	1.68	0.58
2:4S:306:ASP:HB3	2:4S:309:HIS:HD2	1.68	0.58
1:1C:261:PRO:C	2:4P:404:PHE:HA	2.22	0.58
1:1C:351:PHE:HB3	2:4P:178:SER:O	2.00	0.58
1:1D:258:ASN:O	2:4Q:181:VAL:HB	2.03	0.58
1:1E:261:PRO:HA	2:4R:404:PHE:CB	2.31	0.58
1:1F:2:ARG:CG	2:4S:72:PRO:HG2	2.25	0.58
1:1I:261:PRO:CB	2:4U:404:PHE:H	2.16	0.58
2:1S:306:ASP:HB3	2:1S:309:HIS:HD2	1.68	0.58
2:1T:404:PHE:N	1:2G:261:PRO:O	2.26	0.58
2:1Y:404:PHE:CE2	1:2M:261:PRO:HA	2.38	0.58
1:2N:286:LEU:O	1:2N:373:ARG:NH1	2.35	0.58
2:2H:181:VAL:H	1:3A:258:ASN:ND2	2.01	0.58
2:2V:406:HIS:CD2	1:3J:262:TYR:HA	2.38	0.58
1:3N:286:LEU:O	1:3N:373:ARG:NH1	2.35	0.58
1:1C:353:VAL:CG2	2:4P:179:ASP:OD1	2.51	0.58
1:1F:346:TRP:HB3	2:4S:397:ALA:O	1.99	0.58
1:1F:346:TRP:CZ2	2:4S:403:ALA:CB	2.86	0.58
1:1I:263:PRO:HD3	2:4U:406:HIS:CB	2.32	0.58
1:1I:349:THR:HG21	2:4U:184:PRO:CG	2.32	0.58
1:1J:346:TRP:CH2	2:4V:403:ALA:HB1	2.38	0.58
2:1V:224:TYR:OH	1:2J:248:LEU:CD2	2.40	0.58
2:1V:394:GLN:HG2	1:2J:348:PRO:HG2	1.85	0.58
2:1Y:224:TYR:HE2	1:2M:248:LEU:HB2	1.66	0.58
2:2O:223:THR:HA	1:3B:325:PRO:HD2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2O:404:PHE:CE1	1:3B:261:PRO:N	2.72	0.58
2:2P:222:PRO:HD2	1:3C:326:LYS:HB3	1.83	0.58
2:2R:72:PRO:CD	1:3E:2:ARG:CG	2.82	0.58
2:2R:223:THR:HA	1:3E:325:PRO:CD	2.32	0.58
2:2T:100:GLY:CA	1:3G:253:THR:CB	2.81	0.58
2:2W:180:THR:CG2	1:3K:258:ASN:ND2	2.52	0.58
2:2Z:101:ASN:HB2	1:3N:254:GLU:HG2	1.84	0.58
1:4N:286:LEU:O	1:4N:373:ARG:NH1	2.35	0.58
1:1D:263:PRO:HD3	2:4Q:406:HIS:HB3	1.85	0.58
1:1E:247:ALA:O	2:4R:15:GLN:CD	2.42	0.58
1:1F:260:VAL:CG1	2:4S:407:TRP:CZ2	2.87	0.58
1:1M:262:TYR:HA	2:4Y:406:HIS:HD2	1.53	0.58
2:1H:71:GLU:HB2	1:2A:2:ARG:HD3	1.85	0.58
2:1T:306:ASP:HB3	2:1T:309:HIS:HD2	1.68	0.58
2:1X:100:GLY:CA	1:2L:253:THR:HG22	2.30	0.58
2:2O:179:ASP:OD2	1:3B:248:LEU:HD21	2.03	0.58
2:2V:72:PRO:HD2	1:3J:2:ARG:CD	2.33	0.58
2:2Z:222:PRO:O	1:3N:325:PRO:HD2	2.02	0.58
2:3T:306:ASP:HB3	2:3T:309:HIS:HD2	1.68	0.58
1:1A:349:THR:OG1	2:4H:184:PRO:CD	2.51	0.58
1:1B:253:THR:CB	2:4O:100:GLY:CA	2.80	0.58
1:1I:346:TRP:CH2	2:4U:404:PHE:HE2	2.17	0.58
1:1J:260:VAL:CB	2:4V:407:TRP:NE1	2.63	0.58
1:1L:257:THR:HG21	2:4X:100:GLY:O	2.02	0.58
1:1L:346:TRP:CZ3	2:4X:404:PHE:HD2	2.20	0.58
1:1L:348:PRO:HG3	2:4X:394:GLN:CB	2.34	0.58
2:1R:224:TYR:HE2	1:2E:248:LEU:HB2	1.68	0.58
2:1Z:182:VAL:HG21	1:2N:257:THR:CG2	2.33	0.58
2:1Z:404:PHE:CE1	1:2N:260:VAL:C	2.77	0.58
2:2R:306:ASP:HB3	2:2R:309:HIS:HD2	1.68	0.58
2:2T:306:ASP:HB3	2:2T:309:HIS:HD2	1.68	0.58
2:2U:176:LYS:HE2	1:3I:333:ALA:CB	2.30	0.58
2:2U:397:ALA:O	1:3I:346:TRP:HB2	2.04	0.58
2:4R:306:ASP:HB3	2:4R:309:HIS:HD2	1.68	0.58
2:4T:306:ASP:HB3	2:4T:309:HIS:HD2	1.68	0.58
1:1B:326:LYS:CB	2:4O:222:PRO:CG	2.80	0.58
1:1C:286:LEU:O	1:1C:373:ARG:NH1	2.35	0.58
1:1K:260:VAL:CG1	2:4W:407:TRP:CZ2	2.86	0.58
1:1L:261:PRO:HB3	2:4X:404:PHE:CD1	2.39	0.58
1:1M:326:LYS:CG	2:4Y:222:PRO:HG2	2.34	0.58
1:2C:286:LEU:O	1:2C:373:ARG:NH1	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2O:403:ALA:CB	1:3B:262:TYR:CZ	2.86	0.58
2:2S:283:TYR:OH	2:2T:85:GLN:O	2.05	0.58
1:3A:286:LEU:O	1:3A:373:ARG:NH1	2.35	0.58
1:3C:286:LEU:O	1:3C:373:ARG:NH1	2.35	0.58
1:3I:212:ILE:HG23	1:3I:216:ASN:HD22	1.69	0.58
2:3S:283:TYR:OH	2:3T:85:GLN:O	2.05	0.58
1:4I:212:ILE:HG23	1:4I:216:ASN:HD22	1.69	0.58
1:1C:325:PRO:O	2:4P:210:TYR:OH	2.22	0.58
1:1D:325:PRO:HB3	2:4Q:224:TYR:CE1	2.39	0.58
1:1I:245:ASP:CG	2:4U:77:SER:HB3	2.19	0.58
1:1M:253:THR:C	2:4Y:100:GLY:HA2	2.24	0.58
1:1N:253:THR:C	2:4Z:100:GLY:HA2	2.23	0.58
2:1H:100:GLY:CA	1:2A:253:THR:CG2	2.82	0.58
2:1H:404:PHE:CG	1:2A:261:PRO:HA	2.38	0.58
2:1S:283:TYR:OH	2:1T:85:GLN:O	2.05	0.58
2:1V:221:THR:CB	1:2J:324:VAL:CG1	2.78	0.58
2:1W:404:PHE:CD1	1:2K:261:PRO:HA	2.37	0.58
1:2A:286:LEU:O	1:2A:373:ARG:NH1	2.35	0.58
1:2I:212:ILE:HG23	1:2I:216:ASN:HD22	1.69	0.58
2:2H:356:CYS:SG	2:2H:357:ASP:N	2.77	0.58
2:2T:181:VAL:CG2	1:3G:258:ASN:O	2.52	0.58
2:2X:178:SER:HB3	1:3L:349:THR:HA	1.85	0.58
2:2Z:176:LYS:O	1:3N:336:LYS:NZ	2.23	0.58
2:3H:356:CYS:SG	2:3H:357:ASP:N	2.77	0.58
2:3R:306:ASP:HB3	2:3R:309:HIS:HD2	1.68	0.58
1:4C:286:LEU:O	1:4C:373:ARG:NH1	2.35	0.58
2:4H:356:CYS:SG	2:4H:357:ASP:N	2.77	0.58
2:4U:356:CYS:SG	2:4U:357:ASP:N	2.77	0.58
1:1C:262:TYR:OH	2:4P:401:ARG:C	2.39	0.58
1:1C:329:ASN:CB	2:4P:210:TYR:CE2	2.83	0.58
1:1C:349:THR:CB	2:4P:184:PRO:HD3	2.33	0.58
1:1D:247:ALA:HB1	2:4Q:224:TYR:CD2	2.39	0.58
1:1F:248:LEU:C	2:4S:11:GLN:NE2	2.45	0.58
1:1I:212:ILE:HG23	1:1I:216:ASN:HD22	1.69	0.58
1:1I:346:TRP:CD2	2:4U:403:ALA:HB3	2.39	0.58
1:1J:348:PRO:CB	2:4V:394:GLN:HG2	2.33	0.58
1:1N:212:ILE:HG23	1:1N:216:ASN:HD22	1.69	0.58
1:1N:261:PRO:O	2:4Z:404:PHE:HA	2.02	0.58
2:1H:179:ASP:OD2	1:2A:248:LEU:HD21	2.04	0.58
2:1H:356:CYS:SG	2:1H:357:ASP:N	2.77	0.58
2:1Q:356:CYS:SG	2:1Q:357:ASP:N	2.77	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1R:306:ASP:HB3	2:1R:309:HIS:HD2	1.68	0.58
2:1S:221:THR:HA	1:2F:324:VAL:CG1	2.27	0.58
2:1S:404:PHE:CE1	1:2F:261:PRO:N	2.71	0.58
2:1V:404:PHE:CE1	1:2J:261:PRO:CA	2.87	0.58
2:2Q:356:CYS:SG	2:2Q:357:ASP:N	2.77	0.58
2:2S:406:HIS:CG	1:3F:263:PRO:CD	2.81	0.58
2:2T:356:CYS:SG	2:2T:357:ASP:N	2.77	0.58
2:2U:356:CYS:SG	2:2U:357:ASP:N	2.77	0.58
2:2Y:181:VAL:N	1:3M:258:ASN:HD22	2.02	0.58
1:3N:212:ILE:HG23	1:3N:216:ASN:HD22	1.69	0.58
2:3T:356:CYS:SG	2:3T:357:ASP:N	2.77	0.58
2:3U:356:CYS:SG	2:3U:357:ASP:N	2.77	0.58
1:4N:212:ILE:HG23	1:4N:216:ASN:HD22	1.69	0.58
2:4Q:356:CYS:SG	2:4Q:357:ASP:N	2.77	0.58
2:4S:283:TYR:OH	2:4T:85:GLN:O	2.05	0.58
2:4T:356:CYS:SG	2:4T:357:ASP:N	2.77	0.58
2:4W:306:ASP:HB3	2:4W:309:HIS:HD2	1.68	0.58
1:1E:326:LYS:HA	2:4R:210:TYR:CZ	2.38	0.58
1:1G:437:VAL:C	2:4T:401:ARG:HH12	1.99	0.58
1:1I:263:PRO:CD	2:4U:406:HIS:CD2	2.87	0.58
1:1I:346:TRP:O	2:4U:398:MET:HG3	1.95	0.58
1:1J:349:THR:OG1	2:4V:184:PRO:HD2	2.02	0.58
1:1K:257:THR:HG21	2:4W:100:GLY:O	2.04	0.58
1:1L:260:VAL:CB	2:4X:407:TRP:CZ2	2.87	0.58
1:1M:314:ALA:HB2	2:4Y:181:VAL:HG11	1.86	0.58
1:1M:346:TRP:O	2:4Y:398:MET:HG3	1.99	0.58
2:1H:224:TYR:OH	1:2A:248:LEU:HD22	2.04	0.58
2:1T:356:CYS:SG	2:1T:357:ASP:N	2.77	0.58
2:1U:11:GLN:NE2	1:2I:249:ASN:HB2	2.19	0.58
2:1U:356:CYS:SG	2:1U:357:ASP:N	2.77	0.58
2:1V:180:THR:CA	1:2J:258:ASN:HD21	2.16	0.58
1:2N:212:ILE:HG23	1:2N:216:ASN:HD22	1.69	0.58
2:2O:404:PHE:CG	1:3B:261:PRO:CA	2.82	0.58
2:2V:356:CYS:SG	2:2V:357:ASP:N	2.77	0.58
2:2W:306:ASP:HB3	2:2W:309:HIS:HD2	1.68	0.58
2:2Y:403:ALA:CA	1:3M:262:TYR:CZ	2.87	0.58
2:2Z:181:VAL:H	1:3N:258:ASN:HD22	1.49	0.58
2:3Q:356:CYS:SG	2:3Q:357:ASP:N	2.77	0.58
1:4A:286:LEU:O	1:4A:373:ARG:NH1	2.35	0.58
2:4V:356:CYS:SG	2:4V:357:ASP:N	2.77	0.58
1:1C:326:LYS:CE	2:4P:214:PHE:CB	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:329:ASN:ND2	2:4T:210:TYR:CD2	2.64	0.58
1:1J:212:ILE:HG23	1:1J:216:ASN:HD22	1.69	0.58
1:1K:260:VAL:CB	2:4W:407:TRP:HE1	2.14	0.58
1:1L:261:PRO:HA	2:4X:404:PHE:CD1	2.39	0.58
2:1R:404:PHE:CZ	1:2E:261:PRO:CA	2.87	0.58
2:1S:356:CYS:SG	2:1S:357:ASP:N	2.77	0.58
2:1T:222:PRO:HG2	1:2G:326:LYS:HB2	1.86	0.58
2:1V:356:CYS:SG	2:1V:357:ASP:N	2.77	0.58
2:1Z:356:CYS:SG	2:1Z:357:ASP:N	2.77	0.58
1:2J:212:ILE:HG23	1:2J:216:ASN:HD22	1.69	0.58
2:2P:356:CYS:SG	2:2P:357:ASP:N	2.77	0.58
2:2S:181:VAL:HG11	1:3F:314:ALA:HB2	1.86	0.58
2:2S:356:CYS:SG	2:2S:357:ASP:N	2.77	0.58
2:2T:398:MET:CG	1:3G:346:TRP:O	2.52	0.58
2:2X:306:ASP:HB3	2:2X:309:HIS:HD2	1.68	0.58
2:2Z:356:CYS:SG	2:2Z:357:ASP:N	2.77	0.58
1:3A:212:ILE:HG23	1:3A:216:ASN:HD22	1.69	0.58
2:3P:356:CYS:SG	2:3P:357:ASP:N	2.77	0.58
2:3S:356:CYS:SG	2:3S:357:ASP:N	2.77	0.58
2:3V:356:CYS:SG	2:3V:357:ASP:N	2.77	0.58
2:3W:306:ASP:HB3	2:3W:309:HIS:HD2	1.68	0.58
2:3Z:356:CYS:SG	2:3Z:357:ASP:N	2.77	0.58
1:4A:212:ILE:HG23	1:4A:216:ASN:HD22	1.69	0.58
1:4G:212:ILE:HG23	1:4G:216:ASN:HD22	1.69	0.58
2:4S:356:CYS:SG	2:4S:357:ASP:N	2.77	0.58
2:4W:356:CYS:SG	2:4W:357:ASP:N	2.77	0.58
2:4X:306:ASP:HB3	2:4X:309:HIS:HD2	1.68	0.58
2:4Z:356:CYS:SG	2:4Z:357:ASP:N	2.77	0.58
1:1A:212:ILE:HG23	1:1A:216:ASN:HD22	1.69	0.57
1:1A:261:PRO:N	2:4H:404:PHE:CE1	2.72	0.57
1:1B:248:LEU:C	2:4O:11:GLN:HE22	2.03	0.57
1:1C:253:THR:CG2	2:4P:100:GLY:CA	2.81	0.57
1:1C:257:THR:CG2	2:4P:101:ASN:O	2.52	0.57
1:1C:261:PRO:C	2:4P:404:PHE:N	2.47	0.57
1:1C:261:PRO:HD3	2:4P:404:PHE:CZ	2.38	0.57
1:1G:212:ILE:HG23	1:1G:216:ASN:HD22	1.69	0.57
1:1G:248:LEU:HA	2:4T:11:GLN:CD	2.24	0.57
1:1K:326:LYS:HE2	2:4W:214:PHE:HB2	1.85	0.57
1:1K:329:ASN:HB2	2:4W:210:TYR:HE2	1.66	0.57
1:1K:333:ALA:HB1	2:4W:176:LYS:HE2	1.86	0.57
1:1M:261:PRO:CA	2:4Y:404:PHE:HA	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1N:332:ILE:CG2	2:4Z:177:VAL:CG2	2.82	0.57
2:1P:356:CYS:SG	2:1P:357:ASP:N	2.77	0.57
2:1W:306:ASP:HB3	2:1W:309:HIS:HD2	1.68	0.57
2:1Z:221:THR:HG1	1:2N:324:VAL:HG21	1.63	0.57
1:2A:212:ILE:HG23	1:2A:216:ASN:HD22	1.69	0.57
1:2G:212:ILE:HG23	1:2G:216:ASN:HD22	1.69	0.57
2:2H:401:ARG:O	1:3A:262:TYR:OH	2.21	0.57
2:2O:214:PHE:CG	1:3B:326:LYS:CE	2.87	0.57
2:2P:101:ASN:N	1:3C:254:GLU:HG2	2.19	0.57
2:2W:356:CYS:SG	2:2W:357:ASP:N	2.77	0.57
1:3G:212:ILE:HG23	1:3G:216:ASN:HD22	1.69	0.57
1:3J:212:ILE:HG23	1:3J:216:ASN:HD22	1.69	0.57
2:3W:356:CYS:SG	2:3W:357:ASP:N	2.77	0.57
1:4J:212:ILE:HG23	1:4J:216:ASN:HD22	1.69	0.57
2:4P:356:CYS:SG	2:4P:357:ASP:N	2.77	0.57
1:1A:253:THR:CB	2:4H:100:GLY:HA2	2.35	0.57
1:1E:349:THR:HG23	2:4R:394:GLN:OE1	2.04	0.57
1:1J:257:THR:CG2	2:4V:100:GLY:O	2.51	0.57
1:1J:258:ASN:OD1	2:4V:101:ASN:CB	2.53	0.57
1:1K:348:PRO:HG2	2:4W:394:GLN:HB3	1.86	0.57
1:1L:346:TRP:HA	2:4X:397:ALA:O	2.04	0.57
1:1M:212:ILE:HG23	1:1M:216:ASN:HD22	1.69	0.57
1:1M:262:TYR:C	2:4Y:406:HIS:CE1	2.76	0.57
1:1M:332:ILE:CG2	2:4Y:177:VAL:CG2	2.82	0.57
1:1N:261:PRO:CA	2:4Z:404:PHE:CG	2.86	0.57
2:1Q:214:PHE:CG	1:2D:326:LYS:HE2	2.39	0.57
2:1Q:306:ASP:HB3	2:1Q:309:HIS:HD2	1.68	0.57
2:1W:356:CYS:SG	2:1W:357:ASP:N	2.77	0.57
1:2M:212:ILE:HG23	1:2M:216:ASN:HD22	1.69	0.57
2:2P:403:ALA:CB	1:3C:262:TYR:CE2	2.86	0.57
2:2Q:306:ASP:HB3	2:2Q:309:HIS:HD2	1.68	0.57
2:2U:404:PHE:HA	1:3I:261:PRO:HA	1.85	0.57
2:2X:222:PRO:CG	1:3L:326:LYS:CB	2.81	0.57
1:3M:212:ILE:HG23	1:3M:216:ASN:HD22	1.69	0.57
2:3Q:306:ASP:HB3	2:3Q:309:HIS:HD2	1.68	0.57
2:3X:306:ASP:HB3	2:3X:309:HIS:HD2	1.68	0.57
2:4Q:306:ASP:HB3	2:4Q:309:HIS:HD2	1.68	0.57
2:4V:306:ASP:HB3	2:4V:309:HIS:HD2	1.68	0.57
2:4Y:306:ASP:HB3	2:4Y:309:HIS:HD2	1.68	0.57
1:1B:2:ARG:HG2	2:4O:72:PRO:HD2	1.86	0.57
1:1B:286:LEU:O	1:1B:373:ARG:NH1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1L:260:VAL:CG1	2:4X:407:TRP:HZ2	2.17	0.57
1:1N:260:VAL:HB	2:4Z:407:TRP:NE1	2.18	0.57
1:1N:262:TYR:CZ	2:4Z:403:ALA:HB2	2.39	0.57
2:1Q:178:SER:O	1:2D:351:PHE:O	2.23	0.57
2:1V:11:GLN:NE2	1:2J:249:ASN:ND2	2.52	0.57
2:1V:306:ASP:HB3	2:1V:309:HIS:HD2	1.68	0.57
2:1X:306:ASP:HB3	2:1X:309:HIS:HD2	1.68	0.57
2:1Y:394:GLN:HG2	1:2M:348:PRO:CG	2.34	0.57
2:1Y:403:ALA:HB1	1:2M:261:PRO:HB2	1.85	0.57
2:2S:407:TRP:HE1	1:3F:260:VAL:CB	2.15	0.57
2:2V:306:ASP:HB3	2:2V:309:HIS:HD2	1.68	0.57
2:2W:404:PHE:CZ	1:3K:261:PRO:HD3	2.39	0.57
2:2Y:306:ASP:HB3	2:2Y:309:HIS:HD2	1.68	0.57
2:2Z:214:PHE:CG	1:3N:326:LYS:HE3	2.37	0.57
2:3V:306:ASP:HB3	2:3V:309:HIS:HD2	1.68	0.57
2:3Y:306:ASP:HB3	2:3Y:309:HIS:HD2	1.68	0.57
1:4M:212:ILE:HG23	1:4M:216:ASN:HD22	1.69	0.57
1:1B:261:PRO:HD3	2:4O:404:PHE:CZ	2.40	0.57
1:1D:253:THR:CB	2:4Q:100:GLY:HA2	2.34	0.57
1:1F:258:ASN:OD1	2:4S:101:ASN:HB3	2.05	0.57
1:1G:258:ASN:HD22	2:4T:182:VAL:HG22	1.69	0.57
1:1G:261:PRO:CA	2:4T:404:PHE:CA	2.65	0.57
1:1I:349:THR:O	2:4U:181:VAL:CA	2.49	0.57
1:1L:262:TYR:C	2:4X:406:HIS:CE1	2.77	0.57
1:1L:262:TYR:OH	2:4X:403:ALA:CA	2.53	0.57
1:1L:326:LYS:HG3	2:4X:222:PRO:HG2	1.86	0.57
1:1N:346:TRP:O	2:4Z:398:MET:HG3	2.02	0.57
2:1U:306:ASP:HB3	2:1U:309:HIS:HD2	1.68	0.57
2:1W:222:PRO:HD2	1:2K:326:LYS:HB2	1.87	0.57
2:1Y:306:ASP:HB3	2:1Y:309:HIS:HD2	1.68	0.57
2:1Y:404:PHE:CZ	1:2M:261:PRO:N	2.72	0.57
2:2H:179:ASP:OD2	1:3A:248:LEU:HD21	2.04	0.57
2:2P:404:PHE:HE1	1:3C:260:VAL:N	2.03	0.57
2:2S:100:GLY:CA	1:3F:253:THR:CB	2.80	0.57
2:2T:406:HIS:NE2	1:3G:262:TYR:CA	2.68	0.57
2:2U:180:THR:N	1:3I:351:PHE:O	2.37	0.57
2:2V:100:GLY:O	1:3J:257:THR:CB	2.51	0.57
2:2V:406:HIS:CE1	1:3J:263:PRO:HB3	2.38	0.57
2:2Z:221:THR:C	1:3N:324:VAL:HG11	2.24	0.57
2:4R:356:CYS:SG	2:4R:357:ASP:N	2.77	0.57
1:1D:325:PRO:HG2	2:4Q:224:TYR:CG	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:260:VAL:HB	2:4R:407:TRP:CZ2	2.39	0.57
1:1E:260:VAL:CG1	2:4R:406:HIS:HE1	2.17	0.57
1:1J:326:LYS:HE2	2:4V:214:PHE:HB2	1.86	0.57
1:1K:2:ARG:CD	2:4W:72:PRO:CD	2.74	0.57
1:1L:212:ILE:HG23	1:1L:216:ASN:HD22	1.69	0.57
2:1R:356:CYS:SG	2:1R:357:ASP:N	2.77	0.57
2:1V:221:THR:C	1:2J:324:VAL:CG1	2.73	0.57
2:2O:403:ALA:HB2	1:3B:262:TYR:OH	2.03	0.57
2:2P:214:PHE:CD1	1:3C:326:LYS:HE3	2.40	0.57
2:2P:403:ALA:HB2	1:3C:262:TYR:OH	2.05	0.57
2:2R:356:CYS:SG	2:2R:357:ASP:N	2.77	0.57
2:2S:406:HIS:CD2	1:3F:263:PRO:N	2.72	0.57
2:2U:214:PHE:CB	1:3I:326:LYS:CE	2.69	0.57
2:2X:356:CYS:SG	2:2X:357:ASP:N	2.77	0.57
1:3B:286:LEU:O	1:3B:373:ARG:NH1	2.35	0.57
2:3R:356:CYS:SG	2:3R:357:ASP:N	2.77	0.57
2:3U:306:ASP:HB3	2:3U:309:HIS:HD2	1.68	0.57
2:4O:356:CYS:SG	2:4O:357:ASP:N	2.77	0.57
1:1C:257:THR:HB	2:4P:100:GLY:O	2.05	0.57
1:1D:336:LYS:HD3	2:4Q:176:LYS:O	2.04	0.57
1:1F:263:PRO:HA	2:4S:406:HIS:CE1	2.39	0.57
1:1F:329:ASN:HB3	2:4S:210:TYR:CD2	2.39	0.57
1:1G:325:PRO:HG2	2:4T:224:TYR:CD1	2.40	0.57
1:1I:286:LEU:O	1:1I:373:ARG:NH1	2.35	0.57
1:1L:261:PRO:HB3	2:4X:404:PHE:CE2	2.39	0.57
2:1O:356:CYS:SG	2:1O:357:ASP:N	2.77	0.57
2:1X:404:PHE:CE1	1:2L:261:PRO:N	2.72	0.57
1:2B:286:LEU:O	1:2B:373:ARG:NH1	2.35	0.57
2:2H:403:ALA:CB	1:3A:262:TYR:CE2	2.86	0.57
2:2O:356:CYS:SG	2:2O:357:ASP:N	2.77	0.57
2:2R:401:ARG:NH2	1:3E:435:VAL:HA	2.19	0.57
2:2S:72:PRO:HG2	1:3F:2:ARG:CG	2.30	0.57
2:2T:207:GLU:OE1	1:3G:329:ASN:ND2	2.30	0.57
2:2U:100:GLY:HA2	1:3I:253:THR:CG2	2.33	0.57
2:2U:306:ASP:HB3	2:2U:309:HIS:HD2	1.68	0.57
2:2V:77:SER:CB	1:3J:245:ASP:OD1	2.50	0.57
2:2X:181:VAL:HG21	1:3L:314:ALA:HB1	1.86	0.57
2:2Z:222:PRO:HD2	1:3N:326:LYS:CB	2.35	0.57
1:3L:212:ILE:HG23	1:3L:216:ASN:HD22	1.69	0.57
2:3O:356:CYS:SG	2:3O:357:ASP:N	2.77	0.57
1:4B:286:LEU:O	1:4B:373:ARG:NH1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4X:356:CYS:SG	2:4X:357:ASP:N	2.77	0.57
1:1B:212:ILE:HG23	1:1B:216:ASN:HD22	1.69	0.57
1:1B:261:PRO:CD	2:4O:404:PHE:CE1	2.88	0.57
1:1D:259:LEU:C	2:4Q:404:PHE:HE1	2.08	0.57
1:1E:2:ARG:CG	2:4R:72:PRO:HG2	2.22	0.57
1:1F:345:ASP:O	2:4S:397:ALA:HB1	2.05	0.57
1:1G:258:ASN:OD1	2:4T:101:ASN:HB3	2.05	0.57
1:1I:2:ARG:HD3	2:4U:72:PRO:CG	2.28	0.57
1:1J:286:LEU:O	1:1J:373:ARG:NH1	2.35	0.57
1:1J:348:PRO:HD2	2:4V:398:MET:HG3	1.86	0.57
1:1K:261:PRO:HB3	2:4W:404:PHE:CD1	2.40	0.57
1:1L:349:THR:HG21	2:4X:184:PRO:CD	2.33	0.57
2:1W:224:TYR:HE2	1:2K:248:LEU:CB	2.17	0.57
2:1X:356:CYS:SG	2:1X:357:ASP:N	2.77	0.57
1:2L:212:ILE:HG23	1:2L:216:ASN:HD22	1.69	0.57
2:2S:214:PHE:CB	1:3F:326:LYS:CE	2.74	0.57
2:2T:72:PRO:CD	1:3G:2:ARG:HD3	2.30	0.57
2:2U:11:GLN:NE2	1:3I:249:ASN:N	2.14	0.57
2:2U:404:PHE:CZ	1:3I:261:PRO:HD3	2.40	0.57
2:2U:406:HIS:CG	1:3I:263:PRO:CD	2.78	0.57
2:3X:356:CYS:SG	2:3X:357:ASP:N	2.77	0.57
2:4U:306:ASP:HB3	2:4U:309:HIS:HD2	1.68	0.57
2:4Z:306:ASP:HB3	2:4Z:309:HIS:HD2	1.68	0.57
1:1A:27:GLU:OE2	1:1A:236:SER:OG	2.22	0.57
1:1C:262:TYR:CE1	2:4P:403:ALA:HA	2.40	0.57
1:1D:345:ASP:O	2:4Q:397:ALA:HB1	2.04	0.57
1:1F:261:PRO:HD3	2:4S:404:PHE:CE1	2.39	0.57
1:1K:212:ILE:HG23	1:1K:216:ASN:HD22	1.69	0.57
1:1N:353:VAL:HB	2:4Z:179:ASP:OD1	2.04	0.57
2:1S:406:HIS:NE2	1:2F:263:PRO:HD3	2.20	0.57
2:2H:214:PHE:CG	1:3A:326:LYS:HE2	2.38	0.57
2:2Q:177:VAL:CG2	1:3D:332:ILE:HG21	2.35	0.57
2:2Q:407:TRP:HE1	1:3D:260:VAL:CB	2.16	0.57
2:2R:394:GLN:OE1	1:3E:349:THR:CG2	2.52	0.57
2:2S:404:PHE:CE2	1:3F:261:PRO:CB	2.69	0.57
2:2V:404:PHE:CZ	1:3J:261:PRO:HD3	2.39	0.57
2:2W:176:LYS:HE2	1:3K:333:ALA:CB	2.33	0.57
2:2W:404:PHE:CZ	1:3K:261:PRO:CD	2.87	0.57
2:2Z:181:VAL:CB	1:3N:258:ASN:O	2.53	0.57
2:2Z:306:ASP:HB3	2:2Z:309:HIS:HD2	1.68	0.57
1:3B:212:ILE:HG23	1:3B:216:ASN:HD22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3I:286:LEU:O	1:3I:373:ARG:NH1	2.35	0.57
1:3J:286:LEU:O	1:3J:373:ARG:NH1	2.35	0.57
2:3Z:306:ASP:HB3	2:3Z:309:HIS:HD2	1.68	0.57
1:4L:212:ILE:HG23	1:4L:216:ASN:HD22	1.69	0.57
1:1B:348:PRO:CG	2:4O:394:GLN:HB3	2.26	0.57
1:1F:212:ILE:HG23	1:1F:216:ASN:HD22	1.69	0.57
1:1F:263:PRO:CA	2:4S:406:HIS:CE1	2.87	0.57
1:1G:324:VAL:HG21	2:4T:221:THR:OG1	2.05	0.57
2:1T:403:ALA:CB	1:2G:262:TYR:CZ	2.83	0.57
2:1V:207:GLU:CD	1:2J:329:ASN:HD21	2.07	0.57
2:1X:178:SER:CB	1:2L:349:THR:HB	2.34	0.57
1:2A:27:GLU:OE2	1:2A:236:SER:OG	2.22	0.57
1:2B:212:ILE:HG23	1:2B:216:ASN:HD22	1.69	0.57
1:2F:212:ILE:HG23	1:2F:216:ASN:HD22	1.69	0.57
1:2I:286:LEU:O	1:2I:373:ARG:NH1	2.35	0.57
1:2J:286:LEU:O	1:2J:373:ARG:NH1	2.35	0.57
2:2Q:403:ALA:CB	1:3D:262:TYR:CZ	2.86	0.57
2:2S:179:ASP:O	1:3F:352:LYS:HD2	2.05	0.57
2:2S:403:ALA:HB1	1:3F:261:PRO:HB2	1.86	0.57
2:2T:181:VAL:HG11	1:3G:314:ALA:HB2	1.87	0.57
2:2T:214:PHE:CB	1:3G:326:LYS:CE	2.72	0.57
2:2U:179:ASP:O	1:3I:352:LYS:HD2	2.04	0.57
2:2U:404:PHE:HA	1:3I:261:PRO:O	2.04	0.57
1:3A:27:GLU:OE2	1:3A:236:SER:OG	2.23	0.57
1:3F:212:ILE:HG23	1:3F:216:ASN:HD22	1.69	0.57
1:4F:212:ILE:HG23	1:4F:216:ASN:HD22	1.69	0.57
1:4J:286:LEU:O	1:4J:373:ARG:NH1	2.35	0.57
1:1A:348:PRO:HG2	2:4H:394:GLN:CG	2.33	0.57
1:1C:325:PRO:CD	2:4P:223:THR:HA	2.35	0.57
1:1E:248:LEU:CA	2:4R:11:GLN:HE22	2.12	0.57
1:1E:251:ASP:OD2	2:4R:98:GLY:HA3	2.05	0.57
1:1F:258:ASN:ND2	2:4S:101:ASN:ND2	2.52	0.57
1:1G:346:TRP:CH2	2:4T:403:ALA:CB	2.87	0.57
1:1G:346:TRP:CZ3	2:4T:403:ALA:CB	2.88	0.57
1:1M:248:LEU:HD13	5:4Y:501:GDP:H8	1.70	0.57
1:1N:263:PRO:CA	2:4Z:406:HIS:CE1	2.88	0.57
2:1S:404:PHE:CZ	1:2F:261:PRO:HA	2.35	0.57
2:1T:179:ASP:O	1:2G:352:LYS:HD2	2.05	0.57
2:1V:182:VAL:HG22	1:2J:257:THR:HG22	1.87	0.57
2:1Y:181:VAL:CG1	1:2M:258:ASN:O	2.53	0.57
2:1Z:306:ASP:HB3	2:1Z:309:HIS:HD2	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2K:212:ILE:HG23	1:2K:216:ASN:HD22	1.69	0.57
2:2O:403:ALA:CB	1:3B:262:TYR:CE2	2.87	0.57
2:2V:178:SER:OG	1:3J:350:GLY:N	2.38	0.57
2:2W:222:PRO:O	1:3K:325:PRO:HD2	2.05	0.57
1:3K:212:ILE:HG23	1:3K:216:ASN:HD22	1.69	0.57
1:4A:27:GLU:OE2	1:4A:236:SER:OG	2.22	0.57
1:4B:212:ILE:HG23	1:4B:216:ASN:HD22	1.69	0.57
1:4I:286:LEU:O	1:4I:373:ARG:NH1	2.35	0.57
1:1A:253:THR:CG2	2:4H:100:GLY:CA	2.82	0.56
1:1B:437:VAL:O	2:4O:401:ARG:NH1	2.37	0.56
1:1D:329:ASN:HB3	2:4Q:210:TYR:CD2	2.39	0.56
1:1G:325:PRO:HB3	2:4T:224:TYR:CE1	2.39	0.56
1:1G:348:PRO:HB2	2:4T:394:GLN:CG	2.34	0.56
1:1M:329:ASN:HB2	2:4Y:210:TYR:HE2	1.65	0.56
1:1N:261:PRO:CB	2:4Z:404:PHE:CG	2.88	0.56
2:1P:306:ASP:HB3	2:1P:309:HIS:HD2	1.68	0.56
2:1R:181:VAL:N	1:2E:258:ASN:ND2	2.47	0.56
2:1X:401:ARG:O	1:2L:262:TYR:HE1	1.88	0.56
2:1Z:224:TYR:HE2	1:2N:248:LEU:HB2	1.70	0.56
2:2Q:406:HIS:CD2	1:3D:262:TYR:HA	2.39	0.56
2:2S:222:PRO:CG	1:3F:326:LYS:CB	2.78	0.56
2:2S:401:ARG:O	1:3F:262:TYR:OH	2.17	0.56
2:2U:406:HIS:CE1	1:3I:263:PRO:N	2.73	0.56
2:3P:306:ASP:HB3	2:3P:309:HIS:HD2	1.68	0.56
1:1A:258:ASN:ND2	2:4H:180:THR:CG2	2.60	0.56
1:1A:261:PRO:O	2:4H:404:PHE:HA	2.04	0.56
1:1B:2:ARG:NH2	2:4O:73:GLY:HA3	2.20	0.56
1:1E:349:THR:CG2	2:4R:184:PRO:HD3	2.34	0.56
1:1F:349:THR:O	2:4S:181:VAL:HA	2.05	0.56
1:1K:261:PRO:C	2:4W:406:HIS:CD2	2.77	0.56
1:1K:348:PRO:HG3	2:4W:394:GLN:CB	2.35	0.56
1:1M:326:LYS:HG3	2:4Y:222:PRO:CG	2.35	0.56
1:1M:349:THR:HA	2:4Y:178:SER:CB	2.35	0.56
2:1P:221:THR:CA	1:2C:324:VAL:HG11	2.35	0.56
2:1V:224:TYR:HE2	1:2J:248:LEU:CB	2.15	0.56
2:1W:224:TYR:CZ	1:2K:248:LEU:HB2	2.40	0.56
1:2B:27:GLU:OE2	1:2B:236:SER:OG	2.22	0.56
2:2H:181:VAL:CB	1:3A:258:ASN:O	2.52	0.56
2:2O:394:GLN:CG	1:3B:348:PRO:CG	2.71	0.56
2:2P:306:ASP:HB3	2:2P:309:HIS:HD2	1.68	0.56
2:2T:407:TRP:NE1	1:3G:260:VAL:HB	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2U:210:TYR:CD2	1:3I:329:ASN:ND2	2.51	0.56
2:2U:404:PHE:CD1	1:3I:261:PRO:N	2.73	0.56
2:2X:214:PHE:CG	1:3L:326:LYS:HE3	2.35	0.56
2:2X:403:ALA:HB1	1:3L:261:PRO:HB2	1.87	0.56
2:2Z:394:GLN:OE1	1:3N:349:THR:CG2	2.54	0.56
1:4B:27:GLU:OE2	1:4B:236:SER:OG	2.23	0.56
1:4K:212:ILE:HG23	1:4K:216:ASN:HD22	1.69	0.56
2:4P:306:ASP:HB3	2:4P:309:HIS:HD2	1.68	0.56
1:1A:2:ARG:CG	2:4H:72:PRO:CD	2.83	0.56
1:1A:353:VAL:CB	2:4H:179:ASP:OD1	2.54	0.56
1:1B:257:THR:CG2	2:4O:101:ASN:O	2.52	0.56
1:1D:349:THR:CG2	2:4Q:184:PRO:CG	2.83	0.56
1:1E:254:GLU:CB	2:4R:101:ASN:HB2	2.33	0.56
1:1E:348:PRO:HG3	2:4R:394:GLN:HG2	1.83	0.56
1:1E:351:PHE:HD2	2:4R:178:SER:OG	1.83	0.56
1:1G:286:LEU:O	1:1G:373:ARG:NH1	2.35	0.56
1:1G:324:VAL:HG13	2:4T:222:PRO:O	2.04	0.56
1:1J:261:PRO:HB3	2:4V:404:PHE:CD1	2.41	0.56
1:1L:2:ARG:HD3	2:4X:72:PRO:CG	2.35	0.56
1:1M:348:PRO:HG3	2:4Y:394:GLN:HA	1.87	0.56
1:1N:286:LEU:O	1:1N:373:ARG:NH1	2.35	0.56
2:1H:214:PHE:CD1	1:2A:326:LYS:HE3	2.40	0.56
2:1O:306:ASP:HB3	2:1O:309:HIS:HD2	1.68	0.56
2:1P:404:PHE:CZ	1:2C:261:PRO:HB3	2.39	0.56
2:1Q:210:TYR:HD2	1:2D:329:ASN:HD22	1.51	0.56
2:1T:221:THR:OG1	1:2G:324:VAL:CB	2.53	0.56
2:1U:221:THR:HB	1:2I:324:VAL:HG21	1.88	0.56
2:1W:182:VAL:HG21	1:2K:257:THR:HG21	1.86	0.56
2:1X:11:GLN:HE22	1:2L:249:ASN:CG	2.09	0.56
2:2P:407:TRP:NE1	1:3C:260:VAL:HB	2.18	0.56
2:2T:101:ASN:C	1:3G:257:THR:HG21	2.26	0.56
2:2U:100:GLY:HA2	1:3I:253:THR:C	2.26	0.56
2:2Y:181:VAL:CB	1:3M:258:ASN:O	2.53	0.56
2:2Y:356:CYS:SG	2:2Y:357:ASP:N	2.77	0.56
2:2Z:207:GLU:CD	1:3N:329:ASN:HD21	2.04	0.56
2:2Z:401:ARG:NH2	1:3N:434:GLU:C	2.55	0.56
2:2Z:407:TRP:HE1	1:3N:260:VAL:HB	1.70	0.56
1:3B:27:GLU:OE2	1:3B:236:SER:OG	2.23	0.56
2:3O:306:ASP:HB3	2:3O:309:HIS:HD2	1.68	0.56
2:3Y:356:CYS:SG	2:3Y:357:ASP:N	2.77	0.56
2:4O:306:ASP:HB3	2:4O:309:HIS:HD2	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4Y:356:CYS:SG	2:4Y:357:ASP:N	2.77	0.56
1:1B:254:GLU:HB3	2:4O:101:ASN:HB2	1.86	0.56
1:1C:212:ILE:HG23	1:1C:216:ASN:HD22	1.69	0.56
1:1C:260:VAL:CB	2:4P:407:TRP:NE1	2.36	0.56
1:1C:262:TYR:CZ	2:4P:403:ALA:N	2.73	0.56
1:1F:260:VAL:CG1	2:4S:407:TRP:NE1	2.66	0.56
2:1H:306:ASP:HB3	2:1H:309:HIS:HD2	1.68	0.56
2:1U:394:GLN:HG2	1:2I:348:PRO:CG	2.36	0.56
2:1Y:356:CYS:SG	2:1Y:357:ASP:N	2.77	0.56
2:2H:306:ASP:HB3	2:2H:309:HIS:HD2	1.68	0.56
2:2O:306:ASP:HB3	2:2O:309:HIS:HD2	1.68	0.56
2:2V:176:LYS:HE2	1:3J:333:ALA:CB	2.33	0.56
2:2W:214:PHE:CG	1:3K:326:LYS:HE3	2.37	0.56
2:2Y:404:PHE:HE1	1:3M:260:VAL:N	2.02	0.56
1:3G:286:LEU:O	1:3G:373:ARG:NH1	2.35	0.56
2:3H:306:ASP:HB3	2:3H:309:HIS:HD2	1.68	0.56
1:1A:349:THR:HA	2:4H:178:SER:HB3	1.88	0.56
1:1E:240:ALA:HB1	1:1E:356:ASN:HD22	1.71	0.56
1:1E:247:ALA:C	2:4R:15:GLN:HE22	2.07	0.56
1:1F:346:TRP:CZ3	2:4S:404:PHE:CD2	2.94	0.56
1:1G:346:TRP:CZ2	2:4T:403:ALA:HB1	2.40	0.56
1:1K:314:ALA:HB1	2:4W:181:VAL:HG21	1.88	0.56
1:1L:2:ARG:CG	2:4X:72:PRO:HG2	2.35	0.56
1:1L:262:TYR:CZ	2:4X:403:ALA:CA	2.86	0.56
2:1P:210:TYR:HD2	1:2C:329:ASN:HD22	1.52	0.56
2:1V:401:ARG:CB	1:2J:262:TYR:OH	2.53	0.56
2:1X:181:VAL:CG2	1:2L:258:ASN:C	2.51	0.56
2:1Y:394:GLN:OE1	1:2M:349:THR:HG21	2.05	0.56
1:2G:286:LEU:O	1:2G:373:ARG:NH1	2.35	0.56
1:2J:27:GLU:OE2	1:2J:236:SER:OG	2.22	0.56
1:2J:240:ALA:HB1	1:2J:356:ASN:HD22	1.71	0.56
2:2O:207:GLU:CD	1:3B:329:ASN:HD21	2.03	0.56
2:2T:398:MET:HA	1:3G:346:TRP:HB2	1.88	0.56
2:2T:406:HIS:CE1	1:3G:263:PRO:N	2.74	0.56
2:2U:404:PHE:CE1	1:3I:260:VAL:C	2.79	0.56
2:2W:101:ASN:ND2	1:3K:258:ASN:CG	2.55	0.56
2:2X:222:PRO:CD	1:3L:326:LYS:CB	2.83	0.56
1:4K:27:GLU:OE2	1:4K:236:SER:OG	2.22	0.56
1:4K:286:LEU:O	1:4K:373:ARG:NH1	2.35	0.56
2:4H:306:ASP:HB3	2:4H:309:HIS:HD2	1.68	0.56
1:1E:349:THR:HG21	2:4R:184:PRO:HD3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1F:240:ALA:HB1	1:1F:356:ASN:HD22	1.71	0.56
1:1F:349:THR:CG2	2:4S:184:PRO:CD	2.81	0.56
1:1G:240:ALA:HB1	1:1G:356:ASN:HD22	1.71	0.56
1:1J:27:GLU:OE2	1:1J:236:SER:OG	2.22	0.56
1:1J:240:ALA:HB1	1:1J:356:ASN:HD22	1.71	0.56
1:1J:314:ALA:HB1	2:4V:181:VAL:HG21	1.87	0.56
1:1L:260:VAL:HB	2:4X:407:TRP:HE1	1.69	0.56
1:1L:326:LYS:CG	2:4X:222:PRO:HG2	2.35	0.56
2:1O:214:PHE:CD1	1:2B:326:LYS:HE3	2.41	0.56
2:1R:181:VAL:HG23	1:2E:258:ASN:HB3	1.88	0.56
1:2C:212:ILE:HG23	1:2C:216:ASN:HD22	1.69	0.56
1:2E:212:ILE:HG23	1:2E:216:ASN:HD22	1.69	0.56
1:2E:240:ALA:HB1	1:2E:356:ASN:HD22	1.71	0.56
1:2G:240:ALA:HB1	1:2G:356:ASN:HD22	1.71	0.56
1:2I:240:ALA:HB1	1:2I:356:ASN:HD22	1.71	0.56
1:2K:27:GLU:OE2	1:2K:236:SER:OG	2.22	0.56
2:2P:394:GLN:HG2	1:3C:348:PRO:CB	2.34	0.56
2:2U:178:SER:OG	1:3I:350:GLY:N	2.39	0.56
2:2V:404:PHE:CD1	1:3J:261:PRO:N	2.73	0.56
2:2X:397:ALA:O	1:3L:346:TRP:HB2	2.06	0.56
2:2X:404:PHE:CZ	1:3L:261:PRO:HD3	2.40	0.56
1:3C:212:ILE:HG23	1:3C:216:ASN:HD22	1.69	0.56
1:3D:240:ALA:HB1	1:3D:356:ASN:HD22	1.71	0.56
1:3E:212:ILE:HG23	1:3E:216:ASN:HD22	1.69	0.56
1:3F:240:ALA:HB1	1:3F:356:ASN:HD22	1.71	0.56
1:3G:240:ALA:HB1	1:3G:356:ASN:HD22	1.71	0.56
1:3J:27:GLU:OE2	1:3J:236:SER:OG	2.23	0.56
1:3K:27:GLU:OE2	1:3K:236:SER:OG	2.22	0.56
1:4D:240:ALA:HB1	1:4D:356:ASN:HD22	1.71	0.56
1:4E:240:ALA:HB1	1:4E:356:ASN:HD22	1.71	0.56
1:4F:240:ALA:HB1	1:4F:356:ASN:HD22	1.71	0.56
1:4J:27:GLU:OE2	1:4J:236:SER:OG	2.23	0.56
1:1E:212:ILE:HG23	1:1E:216:ASN:HD22	1.69	0.56
1:1K:326:LYS:HG3	2:4W:222:PRO:HG2	1.87	0.56
1:1L:248:LEU:HD13	5:4X:501:GDP:C8	2.41	0.56
1:1L:260:VAL:CB	2:4X:407:TRP:HE1	2.18	0.56
1:1M:245:ASP:OD1	2:4Y:77:SER:CB	2.38	0.56
2:1U:11:GLN:HE22	1:2I:249:ASN:CB	2.18	0.56
1:2D:240:ALA:HB1	1:2D:356:ASN:HD22	1.71	0.56
1:2F:240:ALA:HB1	1:2F:356:ASN:HD22	1.71	0.56
2:2R:214:PHE:CD1	1:3E:326:LYS:HE3	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2T:72:PRO:CD	1:3G:2:ARG:CG	2.83	0.56
2:2Z:181:VAL:N	1:3N:258:ASN:HD22	2.03	0.56
1:3E:240:ALA:HB1	1:3E:356:ASN:HD22	1.71	0.56
1:3I:240:ALA:HB1	1:3I:356:ASN:HD22	1.71	0.56
1:3J:240:ALA:HB1	1:3J:356:ASN:HD22	1.71	0.56
1:4E:212:ILE:HG23	1:4E:216:ASN:HD22	1.69	0.56
1:4G:240:ALA:HB1	1:4G:356:ASN:HD22	1.71	0.56
1:4G:286:LEU:O	1:4G:373:ARG:NH1	2.35	0.56
1:4I:240:ALA:HB1	1:4I:356:ASN:HD22	1.71	0.56
1:4J:240:ALA:HB1	1:4J:356:ASN:HD22	1.71	0.56
1:4J:414:GLU:HG2	1:4J:416:GLY:H	1.71	0.56
1:1A:326:LYS:CE	2:4H:214:PHE:CB	2.78	0.56
1:1D:240:ALA:HB1	1:1D:356:ASN:HD22	1.71	0.56
1:1I:240:ALA:HB1	1:1I:356:ASN:HD22	1.71	0.56
1:1I:260:VAL:CB	2:4U:407:TRP:CE2	2.80	0.56
1:1J:257:THR:HG21	2:4V:102:ASN:HB2	1.86	0.56
1:1K:27:GLU:OE2	1:1K:236:SER:OG	2.22	0.56
1:1K:240:ALA:HB1	1:1K:356:ASN:HD22	1.71	0.56
1:1M:437:VAL:O	2:4Y:401:ARG:NH1	2.30	0.56
2:1R:210:TYR:HD2	1:2E:329:ASN:HD22	1.54	0.56
2:1V:178:SER:HG	1:2J:351:PHE:H	1.53	0.56
2:1V:404:PHE:CD2	1:2J:261:PRO:CA	2.72	0.56
2:1Z:404:PHE:CE1	1:2N:260:VAL:N	2.73	0.56
1:2K:240:ALA:HB1	1:2K:356:ASN:HD22	1.71	0.56
2:2O:181:VAL:CB	1:3B:258:ASN:O	2.54	0.56
2:2P:403:ALA:CB	1:3C:262:TYR:CZ	2.88	0.56
2:2P:404:PHE:H	1:3C:261:PRO:CA	2.19	0.56
2:2T:179:ASP:O	1:3G:352:LYS:HD2	2.06	0.56
1:3J:414:GLU:HG2	1:3J:416:GLY:H	1.71	0.56
1:4C:212:ILE:HG23	1:4C:216:ASN:HD22	1.69	0.56
1:4K:240:ALA:HB1	1:4K:356:ASN:HD22	1.71	0.56
1:1A:248:LEU:CD1	5:4H:501:GDP:H8	2.19	0.56
1:1B:329:ASN:HB2	2:4O:210:TYR:HE2	1.70	0.56
1:1C:349:THR:CG2	2:4P:184:PRO:HG3	2.35	0.56
1:1C:353:VAL:HG23	2:4P:179:ASP:HA	1.88	0.56
1:1D:262:TYR:CZ	2:4Q:403:ALA:N	2.71	0.56
1:1I:2:ARG:CG	2:4U:72:PRO:HG2	2.32	0.56
1:1J:414:GLU:HG2	1:1J:416:GLY:H	1.71	0.56
1:1K:348:PRO:CG	2:4W:394:GLN:HB3	2.35	0.56
1:1L:263:PRO:CD	2:4X:406:HIS:CD2	2.88	0.56
1:1M:346:TRP:CZ3	2:4Y:404:PHE:HD2	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1N:261:PRO:CB	2:4Z:404:PHE:CD2	2.80	0.56
1:2C:240:ALA:HB1	1:2C:356:ASN:HD22	1.71	0.56
1:2G:414:GLU:HG2	1:2G:416:GLY:H	1.71	0.56
1:2J:414:GLU:HG2	1:2J:416:GLY:H	1.71	0.56
2:2H:404:PHE:CA	1:3A:261:PRO:HA	2.36	0.56
2:2V:404:PHE:CZ	1:3J:261:PRO:CD	2.88	0.56
2:2Z:71:GLU:HB2	1:3N:2:ARG:HD3	1.88	0.56
1:3K:240:ALA:HB1	1:3K:356:ASN:HD22	1.71	0.56
1:4G:414:GLU:HG2	1:4G:416:GLY:H	1.71	0.56
1:4I:414:GLU:HG2	1:4I:416:GLY:H	1.71	0.56
1:1C:240:ALA:HB1	1:1C:356:ASN:HD22	1.71	0.56
1:1D:261:PRO:N	2:4Q:404:PHE:CD1	2.73	0.56
1:1E:261:PRO:HA	2:4R:404:PHE:CG	2.40	0.56
1:1E:336:LYS:HD3	2:4R:176:LYS:O	2.05	0.56
1:1J:263:PRO:CD	2:4V:406:HIS:CG	2.80	0.56
1:1J:349:THR:CG2	2:4V:184:PRO:CD	2.81	0.56
1:1K:414:GLU:HG2	1:1K:416:GLY:H	1.71	0.56
1:1L:348:PRO:HG2	2:4X:394:GLN:HB3	1.88	0.56
1:1L:348:PRO:CG	2:4X:394:GLN:HB3	2.36	0.56
1:2F:414:GLU:HG2	1:2F:416:GLY:H	1.71	0.56
1:2I:414:GLU:HG2	1:2I:416:GLY:H	1.71	0.56
2:2Q:71:GLU:HB2	1:3D:2:ARG:HD3	1.88	0.56
2:2S:398:MET:CG	1:3F:346:TRP:O	2.53	0.56
2:2U:214:PHE:CG	1:3I:326:LYS:CE	2.89	0.56
1:3C:240:ALA:HB1	1:3C:356:ASN:HD22	1.71	0.56
1:3F:414:GLU:HG2	1:3F:416:GLY:H	1.71	0.56
1:3G:414:GLU:HG2	1:3G:416:GLY:H	1.71	0.56
1:3I:414:GLU:HG2	1:3I:416:GLY:H	1.71	0.56
1:4F:414:GLU:HG2	1:4F:416:GLY:H	1.71	0.56
1:4K:414:GLU:HG2	1:4K:416:GLY:H	1.71	0.56
1:1C:259:LEU:C	2:4P:404:PHE:HE1	2.10	0.55
1:1C:329:ASN:HB2	2:4P:210:TYR:CD2	2.41	0.55
1:1F:348:PRO:CG	2:4S:394:GLN:CA	2.68	0.55
1:1G:346:TRP:CD2	2:4T:403:ALA:HB3	2.40	0.55
1:1G:414:GLU:HG2	1:1G:416:GLY:H	1.71	0.55
1:1I:414:GLU:HG2	1:1I:416:GLY:H	1.71	0.55
1:1L:260:VAL:CB	2:4X:407:TRP:HZ2	2.20	0.55
1:1M:286:LEU:O	1:1M:373:ARG:NH1	2.35	0.55
2:1U:403:ALA:CB	1:2I:262:TYR:CZ	2.79	0.55
2:1W:401:ARG:NH2	1:2K:434:GLU:HG2	2.21	0.55
1:2K:414:GLU:HG2	1:2K:416:GLY:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2M:286:LEU:O	1:2M:373:ARG:NH1	2.35	0.55
2:2P:404:PHE:CE1	1:3C:261:PRO:N	2.74	0.55
2:2Q:404:PHE:CE1	1:3D:261:PRO:N	2.74	0.55
2:2V:210:TYR:CE2	1:3J:329:ASN:HB2	2.41	0.55
1:3K:414:GLU:HG2	1:3K:416:GLY:H	1.71	0.55
1:4C:240:ALA:HB1	1:4C:356:ASN:HD22	1.71	0.55
1:1D:27:GLU:OE2	1:1D:236:SER:OG	2.23	0.55
1:1E:346:TRP:CZ2	2:4R:403:ALA:CB	2.90	0.55
1:1F:414:GLU:HG2	1:1F:416:GLY:H	1.71	0.55
2:1P:214:PHE:CD1	1:2C:326:LYS:HE2	2.41	0.55
2:1Q:222:PRO:HG2	1:2D:326:LYS:HB2	1.87	0.55
2:1T:406:HIS:NE2	1:2G:263:PRO:HD3	2.21	0.55
1:2D:27:GLU:OE2	1:2D:236:SER:OG	2.22	0.55
2:2Q:404:PHE:H	1:3D:261:PRO:CA	2.19	0.55
2:2S:221:THR:C	1:3F:324:VAL:HG11	2.27	0.55
1:3M:286:LEU:O	1:3M:373:ARG:NH1	2.35	0.55
1:4M:286:LEU:O	1:4M:373:ARG:NH1	2.35	0.55
1:4N:414:GLU:HG2	1:4N:416:GLY:H	1.71	0.55
1:1A:261:PRO:HD3	2:4H:404:PHE:CE1	2.41	0.55
1:1C:27:GLU:OE2	1:1C:236:SER:OG	2.22	0.55
1:1C:247:ALA:HB1	2:4P:224:TYR:CD2	2.41	0.55
1:1E:414:GLU:HG2	1:1E:416:GLY:H	1.71	0.55
1:1F:262:TYR:OH	2:4S:402:LYS:C	2.44	0.55
1:1G:247:ALA:O	2:4T:15:GLN:CD	2.44	0.55
1:1G:260:VAL:CG1	2:4T:407:TRP:HZ2	2.20	0.55
1:1G:346:TRP:CZ3	2:4T:404:PHE:CE2	2.94	0.55
1:1I:251:ASP:OD2	2:4U:71:GLU:HB3	2.06	0.55
1:1I:346:TRP:HA	2:4U:397:ALA:C	2.27	0.55
1:1J:251:ASP:OD2	2:4V:98:GLY:HA3	2.06	0.55
1:1M:326:LYS:HG3	2:4Y:222:PRO:HG2	1.89	0.55
1:1N:414:GLU:HG2	1:1N:416:GLY:H	1.71	0.55
2:1U:181:VAL:CG2	1:2I:258:ASN:C	2.62	0.55
1:2E:414:GLU:HG2	1:2E:416:GLY:H	1.71	0.55
1:2L:240:ALA:HB1	1:2L:356:ASN:HD22	1.71	0.55
1:2N:414:GLU:HG2	1:2N:416:GLY:H	1.71	0.55
2:2H:178:SER:O	1:3A:351:PHE:CB	2.53	0.55
1:3D:27:GLU:OE2	1:3D:236:SER:OG	2.23	0.55
1:3N:414:GLU:HG2	1:3N:416:GLY:H	1.71	0.55
1:4D:27:GLU:OE2	1:4D:236:SER:OG	2.22	0.55
1:4L:240:ALA:HB1	1:4L:356:ASN:HD22	1.71	0.55
1:1A:324:VAL:HG13	2:4H:222:PRO:C	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:261:PRO:C	2:4R:404:PHE:HA	2.24	0.55
1:1F:286:LEU:O	1:1F:373:ARG:NH1	2.35	0.55
1:1J:314:ALA:HB2	2:4V:181:VAL:HG11	1.88	0.55
1:1J:324:VAL:CG1	2:4V:222:PRO:O	2.54	0.55
1:1L:2:ARG:CD	2:4X:72:PRO:CG	2.84	0.55
1:1L:240:ALA:HB1	1:1L:356:ASN:HD22	1.71	0.55
2:1O:214:PHE:CD1	1:2B:326:LYS:CE	2.90	0.55
2:1O:401:ARG:NH2	1:2B:434:GLU:O	2.38	0.55
2:1X:404:PHE:CZ	1:2L:260:VAL:C	2.78	0.55
2:2Q:394:GLN:HA	1:3D:348:PRO:HG3	1.89	0.55
2:2U:397:ALA:O	1:3I:346:TRP:CB	2.54	0.55
2:2V:101:ASN:C	1:3J:257:THR:HG21	2.25	0.55
2:2V:404:PHE:HA	1:3J:261:PRO:O	2.05	0.55
2:2X:404:PHE:CZ	1:3L:261:PRO:CD	2.89	0.55
2:2X:406:HIS:CE1	1:3L:263:PRO:CA	2.90	0.55
1:3E:414:GLU:HG2	1:3E:416:GLY:H	1.71	0.55
1:3L:240:ALA:HB1	1:3L:356:ASN:HD22	1.71	0.55
1:4E:414:GLU:HG2	1:4E:416:GLY:H	1.71	0.55
1:1C:261:PRO:CD	2:4P:404:PHE:CE1	2.89	0.55
1:1D:212:ILE:HG23	1:1D:216:ASN:HD22	1.69	0.55
1:1D:346:TRP:HH2	2:4Q:404:PHE:CE2	2.24	0.55
1:1E:262:TYR:OH	2:4R:401:ARG:C	2.41	0.55
1:1E:262:TYR:OH	2:4R:402:LYS:C	2.45	0.55
1:1N:262:TYR:CE2	2:4Z:403:ALA:CB	2.90	0.55
2:1V:403:ALA:HB2	1:2J:262:TYR:CE1	2.40	0.55
2:1Z:179:ASP:CG	1:2N:248:LEU:HD21	2.26	0.55
2:2Q:181:VAL:HG21	1:3D:314:ALA:HB1	1.86	0.55
2:2R:101:ASN:N	1:3E:254:GLU:HG2	2.21	0.55
2:2R:406:HIS:CD2	1:3E:263:PRO:N	2.74	0.55
2:2Y:132:LEU:HB3	2:2Y:164:ARG:HE	1.72	0.55
2:2Z:72:PRO:HD2	1:3N:2:ARG:HD3	1.89	0.55
1:1C:261:PRO:HB2	2:4P:404:PHE:H	1.69	0.55
1:1D:414:GLU:HG2	1:1D:416:GLY:H	1.71	0.55
1:1F:346:TRP:CZ2	2:4S:403:ALA:HB1	2.41	0.55
1:1G:352:LYS:HA	2:4T:179:ASP:O	2.07	0.55
1:1I:352:LYS:HD3	2:4U:101:ASN:HD21	1.70	0.55
1:1J:332:ILE:CG2	2:4V:177:VAL:CG2	2.84	0.55
1:1J:346:TRP:CE3	2:4V:403:ALA:CB	2.88	0.55
2:1H:132:LEU:HB3	2:1H:164:ARG:HE	1.72	0.55
2:1H:403:ALA:HB2	1:2A:262:TYR:CZ	2.41	0.55
2:1X:181:VAL:CG1	1:2L:258:ASN:O	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1X:224:TYR:CZ	1:2L:248:LEU:HB2	2.42	0.55
2:1Y:401:ARG:O	1:2M:262:TYR:HE1	1.89	0.55
1:2B:240:ALA:HB1	1:2B:356:ASN:HD22	1.71	0.55
2:2H:132:LEU:HB3	2:2H:164:ARG:HE	1.72	0.55
2:2H:214:PHE:CG	1:3A:326:LYS:HE3	2.41	0.55
2:2O:222:PRO:CG	1:3B:326:LYS:HB2	2.32	0.55
2:2S:398:MET:HA	1:3F:346:TRP:HB2	1.89	0.55
2:2U:177:VAL:CG2	1:3I:332:ILE:HG21	2.35	0.55
2:2U:223:THR:CA	1:3I:325:PRO:HD2	2.29	0.55
2:2Y:404:PHE:CZ	1:3M:261:PRO:HD3	2.42	0.55
1:3B:240:ALA:HB1	1:3B:356:ASN:HD22	1.71	0.55
1:3C:27:GLU:OE2	1:3C:236:SER:OG	2.22	0.55
1:3D:212:ILE:HG23	1:3D:216:ASN:HD22	1.69	0.55
1:3F:286:LEU:O	1:3F:373:ARG:NH1	2.35	0.55
2:3H:132:LEU:HB3	2:3H:164:ARG:HE	1.72	0.55
2:3X:132:LEU:HB3	2:3X:164:ARG:HE	1.72	0.55
2:3Z:132:LEU:HB3	2:3Z:164:ARG:HE	1.72	0.55
1:1A:262:TYR:OH	2:4H:401:ARG:O	2.14	0.55
1:1A:263:PRO:HA	2:4H:406:HIS:CE1	2.42	0.55
1:1A:414:GLU:HG2	1:1A:416:GLY:H	1.71	0.55
1:1B:240:ALA:HB1	1:1B:356:ASN:HD22	1.71	0.55
1:1B:261:PRO:C	2:4O:404:PHE:HA	2.27	0.55
1:1C:314:ALA:CB	2:4P:181:VAL:CG1	2.78	0.55
1:1C:346:TRP:HA	2:4P:397:ALA:HB1	1.87	0.55
1:1C:352:LYS:HD3	2:4P:101:ASN:HD21	1.72	0.55
1:1F:351:PHE:O	2:4S:180:THR:HA	2.03	0.55
1:1F:353:VAL:HG23	2:4S:179:ASP:OD1	2.06	0.55
1:1I:325:PRO:CB	2:4U:224:TYR:CE1	2.90	0.55
1:1J:348:PRO:CG	2:4V:394:GLN:CB	2.85	0.55
1:1N:248:LEU:HD22	2:4Z:224:TYR:OH	2.07	0.55
2:1O:181:VAL:CG2	1:2B:258:ASN:HB3	2.36	0.55
2:1Q:404:PHE:CE1	1:2D:261:PRO:HA	2.42	0.55
2:1R:181:VAL:CG2	1:2E:258:ASN:O	2.42	0.55
2:1V:404:PHE:HE1	1:2J:260:VAL:N	2.03	0.55
2:1X:394:GLN:OE1	1:2L:349:THR:HG21	2.07	0.55
2:1Y:132:LEU:HB3	2:1Y:164:ARG:HE	1.72	0.55
1:2C:27:GLU:OE2	1:2C:236:SER:OG	2.22	0.55
1:2D:212:ILE:HG23	1:2D:216:ASN:HD22	1.69	0.55
1:2D:414:GLU:HG2	1:2D:416:GLY:H	1.71	0.55
1:2F:286:LEU:O	1:2F:373:ARG:NH1	2.35	0.55
2:2P:214:PHE:CB	1:3C:326:LYS:CE	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2R:181:VAL:HG11	1:3E:314:ALA:HB2	1.89	0.55
2:2S:179:ASP:O	1:3F:352:LYS:HA	2.06	0.55
2:2Z:132:LEU:HB3	2:2Z:164:ARG:HE	1.72	0.55
1:3A:414:GLU:HG2	1:3A:416:GLY:H	1.71	0.55
2:3O:132:LEU:HB3	2:3O:164:ARG:HE	1.72	0.55
2:3Y:132:LEU:HB3	2:3Y:164:ARG:HE	1.72	0.55
1:4B:240:ALA:HB1	1:4B:356:ASN:HD22	1.71	0.55
2:4H:132:LEU:HB3	2:4H:164:ARG:HE	1.72	0.55
2:4O:132:LEU:HB3	2:4O:164:ARG:HE	1.72	0.55
2:4Y:132:LEU:HB3	2:4Y:164:ARG:HE	1.72	0.55
2:4Z:132:LEU:HB3	2:4Z:164:ARG:HE	1.72	0.55
1:1C:325:PRO:HG2	2:4P:224:TYR:CD1	2.41	0.55
1:1D:286:LEU:O	1:1D:373:ARG:NH1	2.35	0.55
1:1E:324:VAL:HG21	2:4R:221:THR:HG1	1.70	0.55
1:1G:263:PRO:N	2:4T:406:HIS:NE2	2.55	0.55
1:1G:346:TRP:O	2:4T:398:MET:N	2.40	0.55
1:1I:254:GLU:HA	2:4U:100:GLY:C	2.26	0.55
1:1I:346:TRP:CD2	2:4U:403:ALA:CB	2.90	0.55
1:1K:348:PRO:HG3	2:4W:394:GLN:HA	1.89	0.55
1:1L:326:LYS:HG3	2:4X:222:PRO:CG	2.37	0.55
2:1O:132:LEU:HB3	2:1O:164:ARG:HE	1.72	0.55
2:1V:132:LEU:HB3	2:1V:164:ARG:HE	1.72	0.55
2:1W:132:LEU:HB3	2:1W:164:ARG:HE	1.72	0.55
2:1X:132:LEU:HB3	2:1X:164:ARG:HE	1.72	0.55
2:1Y:182:VAL:HG21	1:2M:257:THR:HG22	1.85	0.55
2:1Z:132:LEU:HB3	2:1Z:164:ARG:HE	1.72	0.55
1:2A:414:GLU:HG2	1:2A:416:GLY:H	1.71	0.55
2:2O:132:LEU:HB3	2:2O:164:ARG:HE	1.72	0.55
2:2T:179:ASP:O	1:3G:352:LYS:HA	2.06	0.55
2:2T:406:HIS:CG	1:3G:263:PRO:CD	2.77	0.55
2:2V:132:LEU:HB3	2:2V:164:ARG:HE	1.72	0.55
2:2V:178:SER:CB	1:3J:349:THR:HA	2.37	0.55
2:2X:132:LEU:HB3	2:2X:164:ARG:HE	1.72	0.55
2:2Y:207:GLU:CD	1:3M:329:ASN:HD21	2.08	0.55
1:3D:414:GLU:HG2	1:3D:416:GLY:H	1.71	0.55
2:3V:132:LEU:HB3	2:3V:164:ARG:HE	1.72	0.55
2:3W:132:LEU:HB3	2:3W:164:ARG:HE	1.72	0.55
1:4A:414:GLU:HG2	1:4A:416:GLY:H	1.71	0.55
1:4D:212:ILE:HG23	1:4D:216:ASN:HD22	1.69	0.55
1:4D:414:GLU:HG2	1:4D:416:GLY:H	1.71	0.55
1:4F:286:LEU:O	1:4F:373:ARG:NH1	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4X:132:LEU:HB3	2:4X:164:ARG:HE	1.72	0.55
1:1B:262:TYR:OH	2:4O:403:ALA:HB2	2.07	0.55
1:1C:414:GLU:HG2	1:1C:416:GLY:H	1.71	0.55
1:1D:346:TRP:CH2	2:4Q:403:ALA:HB1	2.41	0.55
1:1E:2:ARG:HH11	2:4R:71:GLU:HB2	1.72	0.55
1:1G:326:LYS:CE	2:4T:214:PHE:HB2	2.37	0.55
1:1I:346:TRP:CB	2:4U:398:MET:HA	2.29	0.55
1:1L:414:GLU:HG2	1:1L:416:GLY:H	1.71	0.55
1:1M:2:ARG:CD	2:4Y:72:PRO:CG	2.85	0.55
1:1N:240:ALA:HB1	1:1N:356:ASN:HD22	1.71	0.55
2:1H:214:PHE:CD1	1:2A:326:LYS:CE	2.90	0.55
2:1H:401:ARG:HB3	1:2A:262:TYR:HH	1.70	0.55
2:1P:403:ALA:HB2	1:2C:262:TYR:CZ	2.42	0.55
2:1Q:221:THR:CB	1:2D:324:VAL:HG11	2.37	0.55
2:1R:100:GLY:CA	1:2E:253:THR:CG2	2.85	0.55
2:1W:404:PHE:CZ	1:2K:261:PRO:HA	2.39	0.55
2:1Z:180:THR:HA	1:2N:352:LYS:HD3	1.89	0.55
1:2G:27:GLU:OE2	1:2G:236:SER:OG	2.22	0.55
1:2N:240:ALA:HB1	1:2N:356:ASN:HD22	1.71	0.55
2:2P:179:ASP:OD2	1:3C:248:LEU:HD21	2.07	0.55
2:2R:394:GLN:HA	1:3E:348:PRO:HG3	1.89	0.55
2:2U:404:PHE:CE1	1:3I:261:PRO:CD	2.90	0.55
2:2U:406:HIS:NE2	1:3I:262:TYR:CA	2.70	0.55
1:4C:27:GLU:OE2	1:4C:236:SER:OG	2.23	0.55
1:4G:27:GLU:OE2	1:4G:236:SER:OG	2.22	0.55
1:4N:240:ALA:HB1	1:4N:356:ASN:HD22	1.71	0.55
2:4V:132:LEU:HB3	2:4V:164:ARG:HE	1.72	0.55
1:1B:324:VAL:CG1	2:4O:222:PRO:C	2.74	0.55
1:1B:414:GLU:HG2	1:1B:416:GLY:H	1.71	0.55
1:1C:245:ASP:CG	2:4P:77:SER:HB3	2.21	0.55
1:1D:257:THR:HG21	2:4Q:101:ASN:C	2.27	0.55
1:1D:351:PHE:HB2	2:4Q:178:SER:HG	1.72	0.55
1:1E:346:TRP:CH2	2:4R:404:PHE:CE2	2.95	0.55
1:1K:326:LYS:CG	2:4W:222:PRO:HG2	2.37	0.55
1:1M:348:PRO:CG	2:4Y:394:GLN:CB	2.85	0.55
1:1N:261:PRO:O	2:4Z:404:PHE:CA	2.55	0.55
2:1H:180:THR:CG2	1:2A:258:ASN:HD21	2.18	0.55
2:1R:132:LEU:HB3	2:1R:164:ARG:HE	1.72	0.55
2:1W:178:SER:HG	1:2K:351:PHE:H	1.52	0.55
1:2D:286:LEU:O	1:2D:373:ARG:NH1	2.35	0.55
2:2H:100:GLY:HA3	1:3A:253:THR:HG21	1.83	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2O:101:ASN:HB2	1:3B:254:GLU:CG	2.37	0.55
2:2Q:72:PRO:CD	1:3D:2:ARG:CG	2.84	0.55
2:2Q:77:SER:CB	1:3D:245:ASP:OD1	2.49	0.55
2:2R:132:LEU:HB3	2:2R:164:ARG:HE	1.72	0.55
2:2W:132:LEU:HB3	2:2W:164:ARG:HE	1.72	0.55
1:3D:286:LEU:O	1:3D:373:ARG:NH1	2.35	0.55
1:3G:27:GLU:OE2	1:3G:236:SER:OG	2.22	0.55
1:3N:240:ALA:HB1	1:3N:356:ASN:HD22	1.71	0.55
2:3R:132:LEU:HB3	2:3R:164:ARG:HE	1.72	0.55
2:4P:132:LEU:HB3	2:4P:164:ARG:HE	1.72	0.55
2:4R:132:LEU:HB3	2:4R:164:ARG:HE	1.72	0.55
2:4W:132:LEU:HB3	2:4W:164:ARG:HE	1.72	0.55
1:1D:215:ARG:NH2	1:1D:299:ALA:O	2.41	0.54
1:1F:262:TYR:CE2	2:4S:403:ALA:CA	2.87	0.54
1:1F:352:LYS:CD	2:4S:101:ASN:ND2	2.68	0.54
1:1G:27:GLU:OE2	1:1G:236:SER:OG	2.23	0.54
1:1G:346:TRP:CH2	2:4T:404:PHE:HE2	2.25	0.54
1:1M:346:TRP:HA	2:4Y:397:ALA:O	2.06	0.54
2:1H:100:GLY:HA3	1:2A:253:THR:HG21	1.88	0.54
2:1H:394:GLN:HG2	1:2A:348:PRO:CG	2.38	0.54
2:1P:132:LEU:HB3	2:1P:164:ARG:HE	1.72	0.54
2:1X:180:THR:HA	1:2L:352:LYS:HD3	1.89	0.54
1:2C:414:GLU:HG2	1:2C:416:GLY:H	1.71	0.54
1:2L:414:GLU:HG2	1:2L:416:GLY:H	1.71	0.54
1:2M:240:ALA:HB1	1:2M:356:ASN:HD22	1.71	0.54
2:2Q:181:VAL:CG2	1:3D:258:ASN:O	2.55	0.54
2:2R:72:PRO:CD	1:3E:2:ARG:HD3	2.31	0.54
2:2Y:404:PHE:CZ	1:3M:261:PRO:CB	2.88	0.54
1:3C:414:GLU:HG2	1:3C:416:GLY:H	1.71	0.54
1:3L:414:GLU:HG2	1:3L:416:GLY:H	1.71	0.54
2:3P:132:LEU:HB3	2:3P:164:ARG:HE	1.72	0.54
1:4C:414:GLU:HG2	1:4C:416:GLY:H	1.71	0.54
1:1D:332:ILE:HB	2:4Q:177:VAL:HG23	1.77	0.54
1:1E:439:SER:CB	2:4R:400:ARG:CD	2.86	0.54
1:1F:215:ARG:NH2	1:1F:299:ALA:O	2.41	0.54
1:1J:2:ARG:CG	2:4V:72:PRO:HG2	2.36	0.54
1:1K:352:LYS:HD3	2:4W:101:ASN:ND2	2.22	0.54
2:1Q:132:LEU:HB3	2:1Q:164:ARG:HE	1.72	0.54
2:1X:221:THR:CB	1:2L:324:VAL:HG11	2.35	0.54
2:1Y:11:GLN:HE22	1:2M:249:ASN:CG	2.10	0.54
1:2B:414:GLU:HG2	1:2B:416:GLY:H	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2D:215:ARG:NH2	1:2D:299:ALA:O	2.41	0.54
1:2K:215:ARG:NH2	1:2K:299:ALA:O	2.41	0.54
2:2P:132:LEU:HB3	2:2P:164:ARG:HE	1.72	0.54
2:2Q:132:LEU:HB3	2:2Q:164:ARG:HE	1.72	0.54
2:2S:180:THR:CG2	1:3F:258:ASN:ND2	2.55	0.54
1:3B:414:GLU:HG2	1:3B:416:GLY:H	1.71	0.54
1:3D:215:ARG:NH2	1:3D:299:ALA:O	2.41	0.54
1:3F:215:ARG:NH2	1:3F:299:ALA:O	2.41	0.54
2:3Q:132:LEU:HB3	2:3Q:164:ARG:HE	1.72	0.54
1:4D:215:ARG:NH2	1:4D:299:ALA:O	2.41	0.54
2:4Q:132:LEU:HB3	2:4Q:164:ARG:HE	1.72	0.54
1:1B:329:ASN:CB	2:4O:210:TYR:CE2	2.89	0.54
1:1E:261:PRO:CA	2:4R:404:PHE:CD1	2.90	0.54
1:1F:27:GLU:OE2	1:1F:236:SER:OG	2.22	0.54
1:1G:258:ASN:HD21	2:4T:180:THR:HG23	1.72	0.54
1:1K:215:ARG:NH2	1:1K:299:ALA:O	2.41	0.54
1:1M:240:ALA:HB1	1:1M:356:ASN:HD22	1.71	0.54
1:1M:257:THR:HG21	2:4Y:100:GLY:O	2.07	0.54
2:1X:224:TYR:CD2	1:2L:247:ALA:C	2.79	0.54
2:1Z:11:GLN:OE1	1:2N:249:ASN:HB2	2.07	0.54
1:2F:215:ARG:NH2	1:2F:299:ALA:O	2.41	0.54
1:2M:215:ARG:NH2	1:2M:299:ALA:O	2.41	0.54
2:2P:101:ASN:HB2	1:3C:254:GLU:HG2	1.90	0.54
2:2Q:180:THR:N	1:3D:351:PHE:O	2.40	0.54
2:2R:214:PHE:CB	1:3E:326:LYS:CE	2.76	0.54
2:2S:406:HIS:NE2	1:3F:262:TYR:CA	2.70	0.54
2:2T:404:PHE:CD1	1:3G:261:PRO:N	2.75	0.54
2:2T:404:PHE:CZ	1:3G:261:PRO:HD3	2.42	0.54
2:2U:178:SER:CB	1:3I:349:THR:HA	2.37	0.54
2:2U:398:MET:CG	1:3I:346:TRP:O	2.56	0.54
1:3F:27:GLU:OE2	1:3F:236:SER:OG	2.22	0.54
1:3K:215:ARG:NH2	1:3K:299:ALA:O	2.41	0.54
1:3M:240:ALA:HB1	1:3M:356:ASN:HD22	1.71	0.54
1:4B:414:GLU:HG2	1:4B:416:GLY:H	1.71	0.54
1:4D:286:LEU:O	1:4D:373:ARG:NH1	2.35	0.54
1:4F:215:ARG:NH2	1:4F:299:ALA:O	2.41	0.54
1:4K:215:ARG:NH2	1:4K:299:ALA:O	2.41	0.54
1:4L:414:GLU:HG2	1:4L:416:GLY:H	1.71	0.54
1:4M:215:ARG:NH2	1:4M:299:ALA:O	2.41	0.54
1:4M:240:ALA:HB1	1:4M:356:ASN:HD22	1.71	0.54
1:1A:349:THR:OG1	2:4H:184:PRO:HD3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:258:ASN:O	2:4O:181:VAL:HB	2.08	0.54
1:1B:346:TRP:HA	2:4O:397:ALA:O	2.06	0.54
1:1C:248:LEU:HB2	2:4P:224:TYR:CE2	2.35	0.54
1:1E:261:PRO:CA	2:4R:404:PHE:CG	2.89	0.54
1:1G:215:ARG:NH2	1:1G:299:ALA:O	2.41	0.54
1:1G:251:ASP:OD2	2:4T:71:GLU:HB3	2.08	0.54
1:1G:253:THR:HG22	2:4T:100:GLY:HA3	1.89	0.54
1:1I:215:ARG:NH2	1:1I:299:ALA:O	2.41	0.54
1:1J:351:PHE:O	2:4V:180:THR:HA	2.05	0.54
1:1M:215:ARG:NH2	1:1M:299:ALA:O	2.41	0.54
1:1M:439:SER:OG	2:4Y:401:ARG:HG2	2.05	0.54
2:1Q:214:PHE:CB	1:2D:326:LYS:HE2	2.36	0.54
1:2I:215:ARG:NH2	1:2I:299:ALA:O	2.41	0.54
2:2H:401:ARG:NH2	1:3A:434:GLU:C	2.54	0.54
2:2S:132:LEU:HB3	2:2S:164:ARG:HE	1.72	0.54
2:2U:72:PRO:HD2	1:3I:2:ARG:HG2	1.89	0.54
1:3G:215:ARG:NH2	1:3G:299:ALA:O	2.41	0.54
1:3I:215:ARG:NH2	1:3I:299:ALA:O	2.41	0.54
1:3M:215:ARG:NH2	1:3M:299:ALA:O	2.41	0.54
2:3S:132:LEU:HB3	2:3S:164:ARG:HE	1.72	0.54
1:4G:215:ARG:NH2	1:4G:299:ALA:O	2.41	0.54
1:4J:215:ARG:NH2	1:4J:299:ALA:O	2.41	0.54
1:1A:248:LEU:HB2	2:4H:224:TYR:CE2	2.29	0.54
1:1A:329:ASN:CB	2:4H:210:TYR:CD2	2.90	0.54
1:1B:215:ARG:NH2	1:1B:299:ALA:O	2.41	0.54
1:1B:261:PRO:N	2:4O:404:PHE:CE1	2.75	0.54
1:1B:346:TRP:HH2	2:4O:404:PHE:CE2	2.24	0.54
1:1F:261:PRO:C	2:4S:406:HIS:NE2	2.61	0.54
1:1I:27:GLU:OE2	1:1I:236:SER:OG	2.22	0.54
1:1I:346:TRP:CH2	2:4U:404:PHE:CD2	2.94	0.54
1:1J:215:ARG:NH2	1:1J:299:ALA:O	2.41	0.54
1:1K:248:LEU:HD13	5:4W:501:GDP:C8	2.42	0.54
1:1L:439:SER:OG	2:4X:401:ARG:HD3	2.07	0.54
1:1M:261:PRO:HB3	2:4Y:404:PHE:CZ	2.42	0.54
1:1M:414:GLU:HG2	1:1M:416:GLY:H	1.71	0.54
1:1N:261:PRO:N	2:4Z:404:PHE:CE1	2.76	0.54
1:1N:348:PRO:HG2	2:4Z:394:GLN:HB3	1.89	0.54
2:1S:132:LEU:HB3	2:1S:164:ARG:HE	1.72	0.54
2:1Y:11:GLN:HE22	1:2M:249:ASN:CB	2.19	0.54
2:1Y:411:GLU:OE2	1:2M:163:LYS:NZ	2.40	0.54
1:2D:64:ARG:NH2	1:2D:129:CYS:SG	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2F:27:GLU:OE2	1:2F:236:SER:OG	2.23	0.54
1:2G:215:ARG:NH2	1:2G:299:ALA:O	2.41	0.54
1:2J:215:ARG:NH2	1:2J:299:ALA:O	2.41	0.54
2:2P:178:SER:O	1:3C:351:PHE:O	2.24	0.54
2:2Q:394:GLN:CG	1:3D:348:PRO:HG3	2.33	0.54
2:2R:180:THR:CG2	1:3E:258:ASN:ND2	2.56	0.54
1:3I:27:GLU:OE2	1:3I:236:SER:OG	2.22	0.54
1:3J:215:ARG:NH2	1:3J:299:ALA:O	2.41	0.54
1:4E:27:GLU:OE2	1:4E:236:SER:OG	2.22	0.54
1:4F:27:GLU:OE2	1:4F:236:SER:OG	2.22	0.54
1:4I:215:ARG:NH2	1:4I:299:ALA:O	2.41	0.54
1:4M:414:GLU:HG2	1:4M:416:GLY:H	1.71	0.54
1:1A:240:ALA:HB1	1:1A:356:ASN:HD22	1.71	0.54
1:1C:262:TYR:N	2:4P:406:HIS:NE2	2.55	0.54
1:1D:64:ARG:NH2	1:1D:129:CYS:SG	2.81	0.54
1:1D:326:LYS:CA	2:4Q:210:TYR:CD1	2.88	0.54
1:1E:314:ALA:HB2	2:4R:404:PHE:HZ	1.72	0.54
1:1I:261:PRO:HB3	2:4U:404:PHE:CD1	2.43	0.54
1:1L:215:ARG:NH2	1:1L:299:ALA:O	2.41	0.54
2:1S:404:PHE:CE1	1:2F:260:VAL:O	2.60	0.54
2:1U:132:LEU:HB3	2:1U:164:ARG:HE	1.72	0.54
2:1U:221:THR:C	1:2I:324:VAL:CG1	2.75	0.54
2:1U:401:ARG:NH2	1:2I:434:GLU:HG2	2.23	0.54
1:2A:240:ALA:HB1	1:2A:356:ASN:HD22	1.71	0.54
1:2B:215:ARG:NH2	1:2B:299:ALA:O	2.41	0.54
1:2E:27:GLU:OE2	1:2E:236:SER:OG	2.23	0.54
1:2I:27:GLU:OE2	1:2I:236:SER:OG	2.23	0.54
2:2S:181:VAL:CG2	1:3F:258:ASN:O	2.56	0.54
2:2U:132:LEU:HB3	2:2U:164:ARG:HE	1.72	0.54
2:2W:72:PRO:HD2	1:3K:2:ARG:HG2	1.89	0.54
2:2X:72:PRO:HD2	1:3L:2:ARG:HG2	1.90	0.54
2:2X:178:SER:O	1:3L:351:PHE:CB	2.55	0.54
1:3A:240:ALA:HB1	1:3A:356:ASN:HD22	1.71	0.54
1:3B:215:ARG:NH2	1:3B:299:ALA:O	2.41	0.54
1:3D:64:ARG:NH2	1:3D:129:CYS:SG	2.81	0.54
1:3L:259:LEU:HD11	1:3L:316:CYS:HB2	1.90	0.54
1:4A:240:ALA:HB1	1:4A:356:ASN:HD22	1.71	0.54
1:4D:64:ARG:NH2	1:4D:129:CYS:SG	2.81	0.54
1:4L:215:ARG:NH2	1:4L:299:ALA:O	2.41	0.54
2:4S:132:LEU:HB3	2:4S:164:ARG:HE	1.72	0.54
2:4U:132:LEU:HB3	2:4U:164:ARG:HE	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:215:ARG:NH2	1:1A:299:ALA:O	2.41	0.54
1:1D:349:THR:HG21	2:4Q:184:PRO:CG	2.38	0.54
1:1E:27:GLU:OE2	1:1E:236:SER:OG	2.23	0.54
1:1E:259:LEU:HD11	1:1E:316:CYS:HB2	1.90	0.54
1:1E:261:PRO:C	2:4R:404:PHE:N	2.61	0.54
1:1E:348:PRO:HG3	2:4R:394:GLN:CG	2.28	0.54
1:1F:346:TRP:CZ3	2:4S:403:ALA:CB	2.90	0.54
1:1K:64:ARG:NH2	1:1K:129:CYS:SG	2.81	0.54
1:1K:346:TRP:O	2:4W:398:MET:CB	2.56	0.54
1:1L:259:LEU:HD11	1:1L:316:CYS:HB2	1.90	0.54
1:1L:286:LEU:O	1:1L:373:ARG:NH1	2.35	0.54
1:1N:346:TRP:CB	2:4Z:397:ALA:O	2.56	0.54
2:1W:224:TYR:OH	1:2K:248:LEU:CD2	2.42	0.54
1:2A:215:ARG:NH2	1:2A:299:ALA:O	2.41	0.54
1:2E:259:LEU:HD11	1:2E:316:CYS:HB2	1.90	0.54
1:2K:64:ARG:NH2	1:2K:129:CYS:SG	2.81	0.54
1:2L:215:ARG:NH2	1:2L:299:ALA:O	2.41	0.54
1:2L:259:LEU:HD11	1:2L:316:CYS:HB2	1.90	0.54
2:2H:207:GLU:CD	1:3A:329:ASN:HD21	2.02	0.54
2:2H:222:PRO:O	1:3A:325:PRO:HD2	2.07	0.54
2:2O:404:PHE:CE1	1:3B:260:VAL:C	2.81	0.54
2:2Q:214:PHE:CD1	1:3D:326:LYS:HE3	2.42	0.54
5:2S:501:GDP:H8	1:3F:248:LEU:HD13	1.72	0.54
1:3A:215:ARG:NH2	1:3A:299:ALA:O	2.41	0.54
1:3D:259:LEU:HD11	1:3D:316:CYS:HB2	1.90	0.54
1:3E:27:GLU:OE2	1:3E:236:SER:OG	2.22	0.54
1:3K:64:ARG:NH2	1:3K:129:CYS:SG	2.81	0.54
1:3L:215:ARG:NH2	1:3L:299:ALA:O	2.41	0.54
1:3M:414:GLU:HG2	1:3M:416:GLY:H	1.71	0.54
1:4A:215:ARG:NH2	1:4A:299:ALA:O	2.41	0.54
1:4B:215:ARG:NH2	1:4B:299:ALA:O	2.41	0.54
1:4I:27:GLU:OE2	1:4I:236:SER:OG	2.22	0.54
1:1C:314:ALA:HB1	2:4P:181:VAL:CG2	2.36	0.54
1:1D:259:LEU:HD11	1:1D:316:CYS:HB2	1.90	0.54
1:1G:64:ARG:NH2	1:1G:129:CYS:SG	2.81	0.54
1:1K:2:ARG:CG	2:4W:72:PRO:HG2	2.37	0.54
1:1M:259:LEU:HD11	1:1M:316:CYS:HB2	1.90	0.54
1:1N:348:PRO:CG	2:4Z:394:GLN:CB	2.86	0.54
2:1P:283:TYR:HB3	2:1Q:88:ARG:HG2	1.90	0.54
2:1V:181:VAL:CB	1:2J:258:ASN:O	2.52	0.54
1:2D:259:LEU:HD11	1:2D:316:CYS:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2G:64:ARG:NH2	1:2G:129:CYS:SG	2.81	0.54
1:2L:286:LEU:O	1:2L:373:ARG:NH1	2.35	0.54
1:2M:414:GLU:HG2	1:2M:416:GLY:H	1.71	0.54
2:2P:283:TYR:HB3	2:2Q:88:ARG:HG2	1.90	0.54
1:3E:259:LEU:HD11	1:3E:316:CYS:HB2	1.90	0.54
1:3G:64:ARG:NH2	1:3G:129:CYS:SG	2.81	0.54
1:3K:259:LEU:HD11	1:3K:316:CYS:HB2	1.90	0.54
1:3L:286:LEU:O	1:3L:373:ARG:NH1	2.35	0.54
2:3O:283:TYR:HB3	2:3P:88:ARG:HG2	1.90	0.54
2:3P:283:TYR:HB3	2:3Q:88:ARG:HG2	1.90	0.54
2:3U:132:LEU:HB3	2:3U:164:ARG:HE	1.72	0.54
1:4E:259:LEU:HD11	1:4E:316:CYS:HB2	1.90	0.54
1:4G:64:ARG:NH2	1:4G:129:CYS:SG	2.81	0.54
1:4J:64:ARG:NH2	1:4J:129:CYS:SG	2.81	0.54
1:4K:64:ARG:NH2	1:4K:129:CYS:SG	2.81	0.54
1:4K:259:LEU:HD11	1:4K:316:CYS:HB2	1.90	0.54
1:4L:259:LEU:HD11	1:4L:316:CYS:HB2	1.90	0.54
2:4O:283:TYR:HB3	2:4P:88:ARG:HG2	1.90	0.54
2:4P:283:TYR:HB3	2:4Q:88:ARG:HG2	1.90	0.54
1:1E:215:ARG:NH2	1:1E:299:ALA:O	2.41	0.54
1:1E:248:LEU:HB2	2:4R:224:TYR:HE2	1.73	0.54
1:1E:286:LEU:O	1:1E:373:ARG:NH1	2.35	0.54
1:1F:259:LEU:HD11	1:1F:316:CYS:HB2	1.90	0.54
1:1K:259:LEU:HD11	1:1K:316:CYS:HB2	1.90	0.54
1:1N:215:ARG:NH2	1:1N:299:ALA:O	2.41	0.54
2:1H:221:THR:CA	1:2A:324:VAL:HG11	2.37	0.54
2:1O:283:TYR:HB3	2:1P:88:ARG:HG2	1.90	0.54
2:1O:404:PHE:CG	1:2B:261:PRO:HA	2.43	0.54
2:1Q:283:TYR:HB3	2:1R:88:ARG:HG2	1.90	0.54
2:1T:101:ASN:HB2	1:2G:254:GLU:HG2	1.90	0.54
2:1U:180:THR:CA	1:2I:258:ASN:ND2	2.71	0.54
2:1W:269:MET:HE3	2:1W:381:SER:HB3	1.90	0.54
2:1X:283:TYR:HB3	2:1Y:88:ARG:HG2	1.90	0.54
1:2J:64:ARG:NH2	1:2J:129:CYS:SG	2.81	0.54
1:2K:259:LEU:HD11	1:2K:316:CYS:HB2	1.90	0.54
2:2H:269:MET:HE3	2:2H:381:SER:HB3	1.90	0.54
2:2O:283:TYR:HB3	2:2P:88:ARG:HG2	1.90	0.54
2:2O:404:PHE:HA	1:3B:261:PRO:HA	1.90	0.54
2:2R:406:HIS:CE1	1:3E:263:PRO:CA	2.90	0.54
2:2U:179:ASP:OD1	1:3I:353:VAL:HB	2.08	0.54
2:2V:11:GLN:NE2	1:3J:249:ASN:N	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2V:72:PRO:HD2	1:3J:2:ARG:HG2	1.89	0.54
2:2V:397:ALA:O	1:3J:346:TRP:HB2	2.07	0.54
2:2W:73:GLY:HA3	1:3K:2:ARG:CZ	2.38	0.54
2:2W:269:MET:HE3	2:2W:381:SER:HB3	1.90	0.54
2:2X:180:THR:CG2	1:3L:258:ASN:ND2	2.53	0.54
2:2X:181:VAL:H	1:3L:258:ASN:ND2	2.04	0.54
1:3J:64:ARG:NH2	1:3J:129:CYS:SG	2.81	0.54
2:3Q:283:TYR:HB3	2:3R:88:ARG:HG2	1.90	0.54
2:3W:269:MET:HE3	2:3W:381:SER:HB3	1.90	0.54
1:4C:215:ARG:NH2	1:4C:299:ALA:O	2.41	0.54
1:4D:259:LEU:HD11	1:4D:316:CYS:HB2	1.90	0.54
1:4E:64:ARG:NH2	1:4E:129:CYS:SG	2.81	0.54
1:4L:286:LEU:O	1:4L:373:ARG:NH1	2.35	0.54
2:4W:269:MET:HE3	2:4W:381:SER:HB3	1.90	0.54
2:4W:283:TYR:HB3	2:4X:88:ARG:HG2	1.90	0.54
1:1A:261:PRO:CA	2:4H:404:PHE:CA	2.85	0.54
1:1B:64:ARG:NH2	1:1B:129:CYS:SG	2.81	0.54
1:1D:262:TYR:N	2:4Q:406:HIS:CD2	2.76	0.54
1:1E:260:VAL:CB	2:4R:407:TRP:CZ2	2.91	0.54
1:1I:262:TYR:CZ	2:4U:403:ALA:CA	2.83	0.54
1:1I:349:THR:CG2	2:4U:184:PRO:HG3	2.37	0.54
1:1J:64:ARG:NH2	1:1J:129:CYS:SG	2.81	0.54
1:1J:251:ASP:OD2	2:4V:71:GLU:HB3	2.08	0.54
1:1K:262:TYR:OH	2:4W:403:ALA:CA	2.55	0.54
1:1K:439:SER:OG	2:4W:401:ARG:CD	2.55	0.54
2:1H:269:MET:HE3	2:1H:381:SER:HB3	1.90	0.54
2:1O:403:ALA:HB2	1:2B:262:TYR:CZ	2.43	0.54
2:1T:214:PHE:HD1	1:2G:326:LYS:CE	2.11	0.54
2:1W:283:TYR:HB3	2:1X:88:ARG:HG2	1.90	0.54
1:2C:215:ARG:NH2	1:2C:299:ALA:O	2.41	0.54
1:2E:64:ARG:NH2	1:2E:129:CYS:SG	2.81	0.54
1:2E:215:ARG:NH2	1:2E:299:ALA:O	2.41	0.54
1:2F:259:LEU:HD11	1:2F:316:CYS:HB2	1.90	0.54
1:2N:215:ARG:NH2	1:2N:299:ALA:O	2.41	0.54
2:2P:403:ALA:HA	1:3C:262:TYR:CZ	2.42	0.54
2:2Q:283:TYR:HB3	2:2R:88:ARG:HG2	1.90	0.54
2:2Q:403:ALA:HA	1:3D:262:TYR:CE1	2.43	0.54
2:2T:72:PRO:HD2	1:3G:2:ARG:HG2	1.90	0.54
2:2V:407:TRP:HE1	1:3J:260:VAL:HB	1.73	0.54
2:2W:283:TYR:HB3	2:2X:88:ARG:HG2	1.90	0.54
2:2Y:404:PHE:CE1	1:3M:261:PRO:CA	2.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Z:223:THR:HA	1:3N:325:PRO:CD	2.38	0.54
2:2Z:403:ALA:CA	1:3N:262:TYR:CZ	2.91	0.54
1:3B:64:ARG:NH2	1:3B:129:CYS:SG	2.81	0.54
1:3C:215:ARG:NH2	1:3C:299:ALA:O	2.41	0.54
1:3E:215:ARG:NH2	1:3E:299:ALA:O	2.41	0.54
1:3M:259:LEU:HD11	1:3M:316:CYS:HB2	1.90	0.54
1:3N:215:ARG:NH2	1:3N:299:ALA:O	2.41	0.54
2:3H:269:MET:HE3	2:3H:381:SER:HB3	1.90	0.54
1:4B:64:ARG:NH2	1:4B:129:CYS:SG	2.81	0.54
2:4Q:283:TYR:HB3	2:4R:88:ARG:HG2	1.90	0.54
2:4V:283:TYR:HB3	2:4W:88:ARG:HG2	1.90	0.54
2:4X:283:TYR:HB3	2:4Y:88:ARG:HG2	1.90	0.54
1:1A:286:LEU:O	1:1A:373:ARG:NH1	2.35	0.53
1:1C:215:ARG:NH2	1:1C:299:ALA:O	2.41	0.53
1:1D:346:TRP:CB	2:4Q:398:MET:HA	2.30	0.53
1:1E:64:ARG:NH2	1:1E:129:CYS:SG	2.81	0.53
1:1E:326:LYS:CA	2:4R:210:TYR:CD1	2.88	0.53
1:1I:64:ARG:NH2	1:1I:129:CYS:SG	2.81	0.53
1:1I:248:LEU:HA	2:4U:11:GLN:CD	2.24	0.53
1:1I:314:ALA:HB2	2:4U:404:PHE:HZ	1.72	0.53
1:1I:350:GLY:HA2	2:4U:181:VAL:HG13	1.89	0.53
1:1J:262:TYR:OH	2:4V:403:ALA:CA	2.56	0.53
1:1J:439:SER:OG	2:4V:401:ARG:CD	2.55	0.53
1:1L:260:VAL:CG1	2:4X:407:TRP:CZ2	2.91	0.53
1:1M:263:PRO:N	2:4Y:406:HIS:NE2	2.55	0.53
2:1H:224:TYR:HE2	1:2A:248:LEU:HB2	1.72	0.53
2:1O:224:TYR:OH	1:2B:248:LEU:HD22	2.08	0.53
2:1P:222:PRO:HG2	1:2C:326:LYS:HB2	1.90	0.53
2:1T:132:LEU:HB3	2:1T:164:ARG:HE	1.72	0.53
2:1T:222:PRO:CD	1:2G:326:LYS:CB	2.76	0.53
2:1U:221:THR:OG1	1:2I:324:VAL:CB	2.51	0.53
2:1W:11:GLN:HE22	1:2K:249:ASN:ND2	2.05	0.53
1:2B:64:ARG:NH2	1:2B:129:CYS:SG	2.81	0.53
2:2H:180:THR:CG2	1:3A:258:ASN:ND2	2.56	0.53
2:2O:221:THR:CA	1:3B:324:VAL:HG11	2.37	0.53
2:2O:311:ARG:NH1	2:2O:341:SER:O	2.42	0.53
2:2P:403:ALA:CA	1:3C:262:TYR:CZ	2.91	0.53
2:2R:100:GLY:O	1:3E:257:THR:CB	2.56	0.53
2:2V:283:TYR:HB3	2:2W:88:ARG:HG2	1.90	0.53
2:2X:283:TYR:HB3	2:2Y:88:ARG:HG2	1.90	0.53
1:3E:64:ARG:NH2	1:3E:129:CYS:SG	2.81	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3E:286:LEU:O	1:3E:373:ARG:NH1	2.35	0.53
1:3F:259:LEU:HD11	1:3F:316:CYS:HB2	1.90	0.53
2:3V:283:TYR:HB3	2:3W:88:ARG:HG2	1.90	0.53
2:3W:283:TYR:HB3	2:3X:88:ARG:HG2	1.90	0.53
2:3X:283:TYR:HB3	2:3Y:88:ARG:HG2	1.90	0.53
1:4E:215:ARG:NH2	1:4E:299:ALA:O	2.41	0.53
1:4F:259:LEU:HD11	1:4F:316:CYS:HB2	1.90	0.53
2:4H:283:TYR:HB3	2:4O:88:ARG:HG2	1.90	0.53
1:1A:64:ARG:NH2	1:1A:129:CYS:SG	2.81	0.53
1:1A:261:PRO:CD	2:4H:404:PHE:CE1	2.91	0.53
1:1C:247:ALA:O	2:4P:15:GLN:NE2	2.42	0.53
1:1K:261:PRO:CA	2:4W:404:PHE:HA	2.31	0.53
1:1M:64:ARG:NH2	1:1M:129:CYS:SG	2.81	0.53
2:1O:311:ARG:NH1	2:1O:341:SER:O	2.42	0.53
2:1Q:311:ARG:NH1	2:1Q:341:SER:O	2.42	0.53
2:1R:283:TYR:HB3	2:1S:88:ARG:HG2	1.90	0.53
2:1V:404:PHE:CZ	1:2J:261:PRO:CB	2.90	0.53
2:1X:311:ARG:NH1	2:1X:341:SER:O	2.42	0.53
2:1Z:269:MET:HE3	2:1Z:381:SER:HB3	1.90	0.53
2:1Z:311:ARG:NH1	2:1Z:341:SER:O	2.42	0.53
1:2A:64:ARG:NH2	1:2A:129:CYS:SG	2.81	0.53
1:2E:286:LEU:O	1:2E:373:ARG:NH1	2.35	0.53
1:2I:64:ARG:NH2	1:2I:129:CYS:SG	2.81	0.53
1:2M:259:LEU:HD11	1:2M:316:CYS:HB2	1.90	0.53
2:2T:31:ASP:OD1	2:2T:35:SER:N	2.41	0.53
2:2W:31:ASP:OD1	2:2W:35:SER:N	2.41	0.53
2:2W:397:ALA:O	1:3K:346:TRP:HB2	2.08	0.53
1:3A:64:ARG:NH2	1:3A:129:CYS:SG	2.81	0.53
1:3C:259:LEU:HD11	1:3C:316:CYS:HB2	1.90	0.53
1:3I:64:ARG:NH2	1:3I:129:CYS:SG	2.81	0.53
2:3O:311:ARG:NH1	2:3O:341:SER:O	2.42	0.53
2:3R:283:TYR:HB3	2:3S:88:ARG:HG2	1.90	0.53
2:3T:31:ASP:OD1	2:3T:35:SER:N	2.41	0.53
2:3W:31:ASP:OD1	2:3W:35:SER:N	2.41	0.53
2:3Z:311:ARG:NH1	2:3Z:341:SER:O	2.42	0.53
1:4A:64:ARG:NH2	1:4A:129:CYS:SG	2.81	0.53
1:4C:64:ARG:NH2	1:4C:129:CYS:SG	2.81	0.53
1:4C:259:LEU:HD11	1:4C:316:CYS:HB2	1.90	0.53
1:4F:64:ARG:NH2	1:4F:129:CYS:SG	2.81	0.53
1:4I:64:ARG:NH2	1:4I:129:CYS:SG	2.81	0.53
1:4M:64:ARG:NH2	1:4M:129:CYS:SG	2.81	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4M:259:LEU:HD11	1:4M:316:CYS:HB2	1.90	0.53
1:4N:215:ARG:NH2	1:4N:299:ALA:O	2.41	0.53
2:4O:311:ARG:NH1	2:4O:341:SER:O	2.42	0.53
2:4R:283:TYR:HB3	2:4S:88:ARG:HG2	1.90	0.53
2:4T:31:ASP:OD1	2:4T:35:SER:N	2.41	0.53
2:4W:31:ASP:OD1	2:4W:35:SER:N	2.41	0.53
2:4Y:311:ARG:NH1	2:4Y:341:SER:O	2.42	0.53
2:4Z:269:MET:HE3	2:4Z:381:SER:HB3	1.90	0.53
1:1C:259:LEU:HD11	1:1C:316:CYS:HB2	1.90	0.53
1:1G:263:PRO:N	2:4T:406:HIS:CD2	2.76	0.53
1:1G:351:PHE:HD2	2:4T:178:SER:OG	1.92	0.53
1:1I:262:TYR:N	2:4U:406:HIS:CD2	2.60	0.53
1:1N:244:PHE:HB2	1:1N:356:ASN:HD21	1.74	0.53
2:1H:283:TYR:HB3	2:1O:88:ARG:HG2	1.90	0.53
2:1V:283:TYR:HB3	2:1W:88:ARG:HG2	1.90	0.53
2:1W:31:ASP:OD1	2:1W:35:SER:N	2.41	0.53
2:1Y:311:ARG:NH1	2:1Y:341:SER:O	2.42	0.53
1:2C:259:LEU:HD11	1:2C:316:CYS:HB2	1.90	0.53
1:2F:64:ARG:NH2	1:2F:129:CYS:SG	2.81	0.53
1:2M:64:ARG:NH2	1:2M:129:CYS:SG	2.81	0.53
2:2H:283:TYR:HB3	2:2O:88:ARG:HG2	1.90	0.53
2:2P:101:ASN:HB2	1:3C:254:GLU:CB	2.39	0.53
2:2P:406:HIS:NE2	1:3C:262:TYR:C	2.61	0.53
2:2R:283:TYR:HB3	2:2S:88:ARG:HG2	1.90	0.53
2:2U:72:PRO:CD	1:3I:2:ARG:CG	2.87	0.53
2:2U:403:ALA:CB	1:3I:262:TYR:OH	2.48	0.53
2:2V:406:HIS:ND1	1:3J:263:PRO:HB3	2.23	0.53
2:2X:72:PRO:HD2	1:3L:2:ARG:HD3	1.89	0.53
2:2X:311:ARG:NH1	2:2X:341:SER:O	2.42	0.53
2:2Y:311:ARG:NH1	2:2Y:341:SER:O	2.42	0.53
2:2Z:269:MET:HE3	2:2Z:381:SER:HB3	1.90	0.53
2:2Z:311:ARG:NH1	2:2Z:341:SER:O	2.42	0.53
1:3F:64:ARG:NH2	1:3F:129:CYS:SG	2.81	0.53
1:3J:259:LEU:HD11	1:3J:316:CYS:HB2	1.90	0.53
1:3M:64:ARG:NH2	1:3M:129:CYS:SG	2.81	0.53
1:3M:244:PHE:HB2	1:3M:356:ASN:HD21	1.74	0.53
2:3Q:311:ARG:NH1	2:3Q:341:SER:O	2.42	0.53
2:3X:311:ARG:NH1	2:3X:341:SER:O	2.42	0.53
2:3Y:311:ARG:NH1	2:3Y:341:SER:O	2.42	0.53
2:3Z:269:MET:HE3	2:3Z:381:SER:HB3	1.90	0.53
1:4J:259:LEU:HD11	1:4J:316:CYS:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4X:311:ARG:NH1	2:4X:341:SER:O	2.42	0.53
2:4Z:311:ARG:NH1	2:4Z:341:SER:O	2.42	0.53
1:1A:244:PHE:HB2	1:1A:356:ASN:HD21	1.74	0.53
1:1B:346:TRP:HA	2:4O:397:ALA:HB1	1.91	0.53
1:1F:2:ARG:NH2	2:4S:73:GLY:CA	2.71	0.53
1:1F:64:ARG:NH2	1:1F:129:CYS:SG	2.81	0.53
1:1J:346:TRP:CD2	2:4V:403:ALA:CB	2.92	0.53
1:1J:347:CYS:HA	2:4V:398:MET:HG2	1.90	0.53
1:1K:2:ARG:HG3	2:4W:72:PRO:HG3	1.89	0.53
1:1K:253:THR:C	2:4W:100:GLY:HA2	2.29	0.53
1:1K:349:THR:CB	2:4W:184:PRO:HD3	2.37	0.53
2:1H:311:ARG:NH1	2:1H:341:SER:O	2.42	0.53
2:1T:31:ASP:OD1	2:1T:35:SER:N	2.41	0.53
2:1X:401:ARG:HB2	1:2L:262:TYR:OH	2.08	0.53
1:2C:64:ARG:NH2	1:2C:129:CYS:SG	2.81	0.53
1:2J:259:LEU:HD11	1:2J:316:CYS:HB2	1.90	0.53
2:2H:311:ARG:NH1	2:2H:341:SER:O	2.42	0.53
2:2Q:311:ARG:NH1	2:2Q:341:SER:O	2.42	0.53
2:2S:222:PRO:HD2	1:3F:326:LYS:CB	2.36	0.53
2:2T:404:PHE:HA	1:3G:261:PRO:O	2.08	0.53
2:2T:407:TRP:HE1	1:3G:260:VAL:CB	2.21	0.53
2:2U:207:GLU:OE1	1:3I:329:ASN:ND2	2.35	0.53
2:2V:269:MET:HE3	2:2V:381:SER:HB3	1.91	0.53
2:2W:178:SER:OG	1:3K:350:GLY:N	2.41	0.53
2:2W:406:HIS:ND1	1:3K:263:PRO:HB3	2.24	0.53
2:2X:404:PHE:CD1	1:3L:260:VAL:C	2.81	0.53
2:2Y:178:SER:HB2	1:3M:349:THR:HB	1.90	0.53
1:3C:64:ARG:NH2	1:3C:129:CYS:SG	2.81	0.53
2:3H:283:TYR:HB3	2:3O:88:ARG:HG2	1.90	0.53
2:3H:311:ARG:NH1	2:3H:341:SER:O	2.42	0.53
2:3V:269:MET:HE3	2:3V:381:SER:HB3	1.91	0.53
2:4Q:311:ARG:NH1	2:4Q:341:SER:O	2.42	0.53
2:4V:269:MET:HE3	2:4V:381:SER:HB3	1.91	0.53
1:1B:258:ASN:ND2	2:4O:182:VAL:HG22	2.24	0.53
1:1C:64:ARG:NH2	1:1C:129:CYS:SG	2.81	0.53
1:1C:346:TRP:HH2	2:4P:404:PHE:CE2	2.27	0.53
1:1G:346:TRP:CH2	2:4T:404:PHE:CD2	2.96	0.53
1:1I:349:THR:HG21	2:4U:184:PRO:HG3	1.90	0.53
1:1J:259:LEU:HD11	1:1J:316:CYS:HB2	1.90	0.53
1:1L:261:PRO:CA	2:4X:404:PHE:CD1	2.92	0.53
1:1M:244:PHE:HB2	1:1M:356:ASN:HD21	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1N:64:ARG:NH2	1:1N:129:CYS:SG	2.81	0.53
2:1O:100:GLY:HA3	1:2B:253:THR:CG2	2.39	0.53
2:1O:214:PHE:CG	1:2B:326:LYS:HE2	2.43	0.53
2:1S:283:TYR:HB3	2:1T:88:ARG:HG2	1.90	0.53
2:1S:404:PHE:CD2	1:2F:261:PRO:HA	2.43	0.53
1:2I:244:PHE:HB2	1:2I:356:ASN:HD21	1.74	0.53
1:2M:244:PHE:HB2	1:2M:356:ASN:HD21	1.74	0.53
1:2N:244:PHE:HB2	1:2N:356:ASN:HD21	1.74	0.53
2:2H:403:ALA:HA	1:3A:262:TYR:CE1	2.44	0.53
2:2Q:177:VAL:HG23	1:3D:332:ILE:HG22	1.89	0.53
5:2R:501:GDP:H8	1:3E:248:LEU:HD13	1.72	0.53
2:2S:404:PHE:CZ	1:3F:261:PRO:HD3	2.44	0.53
2:2T:132:LEU:HB3	2:2T:164:ARG:HE	1.72	0.53
2:2Y:101:ASN:HB2	1:3M:254:GLU:HG2	1.90	0.53
2:2Z:178:SER:O	1:3N:351:PHE:CB	2.56	0.53
1:3A:244:PHE:HB2	1:3A:356:ASN:HD21	1.74	0.53
1:3I:244:PHE:HB2	1:3I:356:ASN:HD21	1.74	0.53
2:3S:283:TYR:HB3	2:3T:88:ARG:HG2	1.90	0.53
2:3T:132:LEU:HB3	2:3T:164:ARG:HE	1.72	0.53
1:4A:244:PHE:HB2	1:4A:356:ASN:HD21	1.74	0.53
1:4E:286:LEU:O	1:4E:373:ARG:NH1	2.35	0.53
1:4N:244:PHE:HB2	1:4N:356:ASN:HD21	1.74	0.53
2:4H:311:ARG:NH1	2:4H:341:SER:O	2.42	0.53
2:4T:132:LEU:HB3	2:4T:164:ARG:HE	1.72	0.53
1:1D:257:THR:CG2	2:4Q:101:ASN:O	2.57	0.53
1:1F:260:VAL:HG21	2:4S:407:TRP:HZ2	1.74	0.53
1:1G:247:ALA:O	2:4T:15:GLN:OE1	2.27	0.53
1:1G:248:LEU:HD11	5:4T:501:GDP:H5”	1.91	0.53
1:1I:244:PHE:HB2	1:1I:356:ASN:HD21	1.74	0.53
1:1I:258:ASN:OD1	2:4U:101:ASN:CG	2.47	0.53
1:1I:258:ASN:ND2	2:4U:180:THR:HG23	2.23	0.53
1:1I:439:SER:OG	2:4U:401:ARG:CG	2.57	0.53
1:1M:2:ARG:HD3	2:4Y:72:PRO:CG	2.37	0.53
1:1M:260:VAL:CG1	2:4Y:407:TRP:HZ2	2.21	0.53
2:1O:178:SER:O	1:2B:351:PHE:O	2.26	0.53
2:1P:214:PHE:CB	1:2C:326:LYS:HE2	2.37	0.53
2:1Q:404:PHE:CG	1:2D:261:PRO:HA	2.43	0.53
2:1S:403:ALA:CB	1:2F:262:TYR:CZ	2.90	0.53
2:1T:180:THR:CG2	1:2G:258:ASN:HD21	2.21	0.53
2:1V:311:ARG:NH1	2:1V:341:SER:O	2.42	0.53
2:1Y:179:ASP:CG	1:2M:248:LEU:HD21	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1Z:224:TYR:CE2	1:2N:248:LEU:HB2	2.43	0.53
1:2A:244:PHE:HB2	1:2A:356:ASN:HD21	1.74	0.53
2:2P:222:PRO:HG2	1:3C:326:LYS:CB	2.33	0.53
2:2Q:406:HIS:CD2	1:3D:263:PRO:N	2.77	0.53
2:2S:283:TYR:HB3	2:2T:88:ARG:HG2	1.90	0.53
2:2V:311:ARG:NH1	2:2V:341:SER:O	2.42	0.53
2:2X:181:VAL:N	1:3L:258:ASN:HD22	2.07	0.53
1:3N:64:ARG:NH2	1:3N:129:CYS:SG	2.81	0.53
1:3N:244:PHE:HB2	1:3N:356:ASN:HD21	1.74	0.53
2:3V:311:ARG:NH1	2:3V:341:SER:O	2.42	0.53
1:4I:244:PHE:HB2	1:4I:356:ASN:HD21	1.74	0.53
1:4M:244:PHE:HB2	1:4M:356:ASN:HD21	1.74	0.53
2:4H:269:MET:HE3	2:4H:381:SER:HB3	1.91	0.53
2:4V:311:ARG:NH1	2:4V:341:SER:O	2.42	0.53
1:1E:263:PRO:N	2:4R:406:HIS:CG	2.76	0.53
1:1G:254:GLU:HG2	2:4T:101:ASN:H	1.74	0.53
1:1G:259:LEU:HD11	1:1G:316:CYS:HB2	1.90	0.53
1:1I:262:TYR:OH	2:4U:403:ALA:CA	2.57	0.53
1:1I:437:VAL:C	2:4U:401:ARG:HH12	2.03	0.53
1:1J:332:ILE:HB	2:4V:177:VAL:HG21	1.89	0.53
1:1K:260:VAL:HG11	2:4W:407:TRP:CZ2	2.43	0.53
1:1K:324:VAL:HG21	2:4W:221:THR:OG1	2.08	0.53
1:1L:244:PHE:HB2	1:1L:356:ASN:HD21	1.74	0.53
2:1R:222:PRO:CG	1:2E:326:LYS:HB2	2.37	0.53
2:1T:284:ARG:HD3	2:1T:290:GLU:OE2	2.09	0.53
2:1U:284:ARG:HD3	2:1U:290:GLU:OE2	2.09	0.53
1:2L:244:PHE:HB2	1:2L:356:ASN:HD21	1.74	0.53
1:2N:64:ARG:NH2	1:2N:129:CYS:SG	2.81	0.53
2:2S:178:SER:HB3	1:3F:349:THR:HA	1.89	0.53
2:2T:284:ARG:HD3	2:2T:290:GLU:OE2	2.09	0.53
2:2U:283:TYR:HB3	2:2V:88:ARG:HG2	1.90	0.53
2:2Y:72:PRO:HD2	1:3M:2:ARG:HG2	1.91	0.53
1:3B:244:PHE:HB2	1:3B:356:ASN:HD21	1.74	0.53
1:3G:259:LEU:HD11	1:3G:316:CYS:HB2	1.90	0.53
1:3L:244:PHE:HB2	1:3L:356:ASN:HD21	1.74	0.53
2:3U:284:ARG:HD3	2:3U:290:GLU:OE2	2.09	0.53
1:4L:64:ARG:NH2	1:4L:129:CYS:SG	2.81	0.53
1:4N:64:ARG:NH2	1:4N:129:CYS:SG	2.81	0.53
2:4R:269:MET:HE3	2:4R:381:SER:HB3	1.90	0.53
2:4S:283:TYR:HB3	2:4T:88:ARG:HG2	1.90	0.53
2:4T:284:ARG:HD3	2:4T:290:GLU:OE2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4U:283:TYR:HB3	2:4V:88:ARG:HG2	1.90	0.53
1:1B:27:GLU:OE2	1:1B:236:SER:OG	2.23	0.53
1:1B:244:PHE:HB2	1:1B:356:ASN:HD21	1.74	0.53
1:1D:314:ALA:HB1	2:4Q:181:VAL:CG1	2.38	0.53
1:1J:326:LYS:CG	2:4V:222:PRO:HG2	2.39	0.53
2:1P:311:ARG:NH1	2:1P:341:SER:O	2.42	0.53
2:1R:224:TYR:CE2	1:2E:248:LEU:HB2	2.44	0.53
2:1S:100:GLY:HA3	1:2F:253:THR:HG21	1.91	0.53
2:1S:269:MET:HE3	2:1S:381:SER:HB3	1.91	0.53
2:1S:284:ARG:HD3	2:1S:290:GLU:OE2	2.09	0.53
2:1U:283:TYR:HB3	2:1V:88:ARG:HG2	1.90	0.53
2:1V:284:ARG:HD3	2:1V:290:GLU:OE2	2.09	0.53
2:1X:269:MET:HE3	2:1X:381:SER:HB3	1.91	0.53
1:2B:244:PHE:HB2	1:2B:356:ASN:HD21	1.74	0.53
1:2B:259:LEU:HD11	1:2B:316:CYS:HB2	1.90	0.53
1:2G:259:LEU:HD11	1:2G:316:CYS:HB2	1.90	0.53
1:2L:64:ARG:NH2	1:2L:129:CYS:SG	2.81	0.53
2:2U:179:ASP:O	1:3I:352:LYS:HA	2.08	0.53
2:2U:284:ARG:HD3	2:2U:290:GLU:OE2	2.09	0.53
2:2V:223:THR:CA	1:3J:325:PRO:HD2	2.31	0.53
2:2V:284:ARG:HD3	2:2V:290:GLU:OE2	2.09	0.53
2:2X:269:MET:HE3	2:2X:381:SER:HB3	1.91	0.53
2:2X:404:PHE:HE1	1:3L:260:VAL:N	2.07	0.53
1:3L:64:ARG:NH2	1:3L:129:CYS:SG	2.81	0.53
2:3S:269:MET:HE3	2:3S:381:SER:HB3	1.91	0.53
2:3T:284:ARG:HD3	2:3T:290:GLU:OE2	2.09	0.53
2:3U:283:TYR:HB3	2:3V:88:ARG:HG2	1.90	0.53
2:3V:284:ARG:HD3	2:3V:290:GLU:OE2	2.09	0.53
2:3X:269:MET:HE3	2:3X:381:SER:HB3	1.91	0.53
1:4B:244:PHE:HB2	1:4B:356:ASN:HD21	1.74	0.53
1:4L:244:PHE:HB2	1:4L:356:ASN:HD21	1.74	0.53
2:4U:284:ARG:HD3	2:4U:290:GLU:OE2	2.09	0.53
2:4X:269:MET:HE3	2:4X:381:SER:HB3	1.91	0.53
1:1B:259:LEU:HD11	1:1B:316:CYS:HB2	1.90	0.53
1:1C:351:PHE:N	2:4P:178:SER:OG	2.42	0.53
1:1D:249:ASN:CA	2:4Q:11:GLN:OE1	2.57	0.53
1:1F:346:TRP:CZ3	2:4S:404:PHE:HD2	2.27	0.53
1:1K:244:PHE:HB2	1:1K:356:ASN:HD21	1.74	0.53
1:1L:64:ARG:NH2	1:1L:129:CYS:SG	2.81	0.53
1:1M:27:GLU:OE2	1:1M:236:SER:OG	2.23	0.53
2:1O:221:THR:CA	1:2B:324:VAL:HG11	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1P:269:MET:HE3	2:1P:381:SER:HB3	1.91	0.53
2:1T:311:ARG:NH1	2:1T:341:SER:O	2.42	0.53
2:1Y:11:GLN:OE1	1:2M:249:ASN:HB2	2.09	0.53
1:2K:244:PHE:HB2	1:2K:356:ASN:HD21	1.74	0.53
2:2H:397:ALA:O	1:3A:346:TRP:CB	2.55	0.53
2:2P:180:THR:CG2	1:3C:258:ASN:ND2	2.57	0.53
2:2P:311:ARG:NH1	2:2P:341:SER:O	2.42	0.53
2:2R:181:VAL:CG2	1:3E:258:ASN:O	2.57	0.53
2:2R:404:PHE:CA	1:3E:261:PRO:O	2.56	0.53
2:2S:269:MET:HE3	2:2S:381:SER:HB3	1.91	0.53
2:2S:284:ARG:HD3	2:2S:290:GLU:OE2	2.09	0.53
2:2T:311:ARG:NH1	2:2T:341:SER:O	2.42	0.53
2:2V:210:TYR:CD2	1:3J:329:ASN:ND2	2.54	0.53
2:2Y:404:PHE:CD1	1:3M:260:VAL:C	2.82	0.53
2:2Z:179:ASP:OD2	1:3N:248:LEU:HD21	2.09	0.53
1:3B:259:LEU:HD11	1:3B:316:CYS:HB2	1.90	0.53
2:3P:269:MET:HE3	2:3P:381:SER:HB3	1.91	0.53
2:3P:311:ARG:NH1	2:3P:341:SER:O	2.42	0.53
2:3T:311:ARG:NH1	2:3T:341:SER:O	2.42	0.53
1:4B:259:LEU:HD11	1:4B:316:CYS:HB2	1.90	0.53
2:4O:269:MET:HE3	2:4O:381:SER:HB3	1.91	0.53
2:4P:269:MET:HE3	2:4P:381:SER:HB3	1.91	0.53
2:4R:311:ARG:NH1	2:4R:341:SER:O	2.41	0.53
2:4S:284:ARG:HD3	2:4S:290:GLU:OE2	2.09	0.53
1:1A:324:VAL:HG21	2:4H:221:THR:HG1	1.67	0.53
1:1C:248:LEU:CD1	5:4P:501:GDP:C8	2.70	0.53
1:1I:314:ALA:HB2	2:4U:404:PHE:CZ	2.44	0.53
1:1I:346:TRP:CE3	2:4U:403:ALA:CB	2.87	0.53
1:1J:244:PHE:HB2	1:1J:356:ASN:HD21	1.74	0.53
1:1K:326:LYS:HD2	2:4W:222:PRO:HD2	1.91	0.53
1:1N:259:LEU:HD11	1:1N:316:CYS:HB2	1.90	0.53
1:1N:260:VAL:CB	2:4Z:407:TRP:HE1	2.22	0.53
2:1O:210:TYR:HD2	1:2B:329:ASN:HD22	1.57	0.53
2:1P:224:TYR:OH	1:2C:248:LEU:HD22	2.08	0.53
2:1Q:178:SER:CB	1:2D:349:THR:CB	2.85	0.53
2:1R:311:ARG:NH1	2:1R:341:SER:O	2.41	0.53
2:1T:283:TYR:HB3	2:1U:88:ARG:HG2	1.90	0.53
2:1V:176:LYS:O	1:2J:336:LYS:NZ	2.41	0.53
2:1X:403:ALA:HB1	1:2L:261:PRO:HB2	1.91	0.53
2:2O:11:GLN:OE1	1:3B:249:ASN:HB2	2.09	0.53
2:2P:181:VAL:CB	1:3C:258:ASN:O	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2P:269:MET:HE3	2:2P:381:SER:HB3	1.91	0.53
2:2Q:180:THR:CG2	1:3D:258:ASN:ND2	2.57	0.53
2:2Q:222:PRO:CG	1:3D:326:LYS:HB2	2.30	0.53
2:2R:311:ARG:NH1	2:2R:341:SER:O	2.42	0.53
2:2T:221:THR:CA	1:3G:324:VAL:HG11	2.39	0.53
2:2V:73:GLY:HA3	1:3J:2:ARG:CZ	2.38	0.53
2:2V:404:PHE:CE1	1:3J:261:PRO:CD	2.91	0.53
2:2V:406:HIS:CE1	1:3J:263:PRO:N	2.76	0.53
2:2Y:406:HIS:NE2	1:3M:263:PRO:CD	2.71	0.53
2:2Z:179:ASP:OD1	1:3N:353:VAL:HB	2.09	0.53
2:2Z:404:PHE:CZ	1:3N:261:PRO:HD3	2.44	0.53
1:3G:244:PHE:HB2	1:3G:356:ASN:HD21	1.74	0.53
1:3K:244:PHE:HB2	1:3K:356:ASN:HD21	1.74	0.53
1:3M:27:GLU:OE2	1:3M:236:SER:OG	2.22	0.53
2:3R:311:ARG:NH1	2:3R:341:SER:O	2.42	0.53
2:3S:284:ARG:HD3	2:3S:290:GLU:OE2	2.09	0.53
1:4G:244:PHE:HB2	1:4G:356:ASN:HD21	1.74	0.53
1:4G:259:LEU:HD11	1:4G:316:CYS:HB2	1.90	0.53
2:4H:88:ARG:HG2	2:4Z:283:TYR:HB3	1.90	0.53
2:4P:311:ARG:NH1	2:4P:341:SER:O	2.42	0.53
2:4T:311:ARG:NH1	2:4T:341:SER:O	2.42	0.53
2:4V:284:ARG:HD3	2:4V:290:GLU:OE2	2.09	0.53
1:1G:325:PRO:O	2:4T:210:TYR:CZ	2.62	0.52
1:1G:346:TRP:CZ2	2:4T:403:ALA:CB	2.92	0.52
1:1J:2:ARG:NE	2:4V:72:PRO:HG2	2.24	0.52
1:1J:260:VAL:HG12	2:4V:406:HIS:HE1	1.74	0.52
2:1O:224:TYR:HE2	1:2B:248:LEU:HB2	1.75	0.52
2:1Q:224:TYR:HE2	1:2D:248:LEU:HB2	1.73	0.52
2:1Z:401:ARG:NH2	1:2N:435:VAL:HA	2.23	0.52
1:2G:244:PHE:HB2	1:2G:356:ASN:HD21	1.74	0.52
2:2H:72:PRO:HD2	1:3A:2:ARG:CD	2.39	0.52
2:2H:88:ARG:HG2	2:2Z:283:TYR:HB3	1.90	0.52
2:2H:182:VAL:HG21	1:3A:257:THR:HG22	1.90	0.52
2:2Q:100:GLY:HA2	1:3D:253:THR:C	2.28	0.52
2:2R:269:MET:HE3	2:2R:381:SER:HB3	1.91	0.52
2:2T:222:PRO:CD	1:3G:326:LYS:CB	2.87	0.52
2:2U:394:GLN:HG2	1:3I:348:PRO:CB	2.36	0.52
2:2V:404:PHE:CA	1:3J:261:PRO:HA	2.39	0.52
2:2W:406:HIS:CE1	1:3K:263:PRO:CB	2.92	0.52
2:2Y:178:SER:OG	1:3M:351:PHE:N	2.42	0.52
2:2Y:403:ALA:HA	1:3M:262:TYR:CZ	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Y:404:PHE:CZ	1:3M:261:PRO:CD	2.93	0.52
1:3J:244:PHE:HB2	1:3J:356:ASN:HD21	1.74	0.52
1:4C:244:PHE:HB2	1:4C:356:ASN:HD21	1.74	0.52
1:4K:244:PHE:HB2	1:4K:356:ASN:HD21	1.74	0.52
1:1C:244:PHE:HB2	1:1C:356:ASN:HD21	1.74	0.52
1:1D:346:TRP:CH2	2:4Q:403:ALA:CB	2.93	0.52
1:1F:260:VAL:HG11	2:4S:407:TRP:HZ2	1.72	0.52
1:1G:244:PHE:HB2	1:1G:356:ASN:HD21	1.74	0.52
1:1K:248:LEU:HD13	5:4W:501:GDP:H8	1.73	0.52
1:1M:326:LYS:HB3	2:4Y:222:PRO:HD2	1.91	0.52
2:1H:181:VAL:CG2	1:2A:258:ASN:O	2.46	0.52
2:1H:214:PHE:CG	1:2A:326:LYS:CE	2.92	0.52
2:1P:31:ASP:OD1	2:1P:35:SER:N	2.41	0.52
2:1R:284:ARG:HD3	2:1R:290:GLU:OE2	2.09	0.52
2:1R:404:PHE:CE1	1:2E:260:VAL:C	2.82	0.52
2:1S:311:ARG:NH1	2:1S:341:SER:O	2.42	0.52
2:1T:269:MET:HE3	2:1T:381:SER:HB3	1.92	0.52
1:2C:244:PHE:HB2	1:2C:356:ASN:HD21	1.74	0.52
1:2J:244:PHE:HB2	1:2J:356:ASN:HD21	1.74	0.52
1:2M:27:GLU:OE2	1:2M:236:SER:OG	2.22	0.52
1:2N:259:LEU:HD11	1:2N:316:CYS:HB2	1.90	0.52
2:2O:31:ASP:OD1	2:2O:35:SER:N	2.41	0.52
2:2P:31:ASP:OD1	2:2P:35:SER:N	2.41	0.52
2:2Q:404:PHE:HE1	1:3D:260:VAL:N	2.08	0.52
2:2R:179:ASP:O	1:3E:352:LYS:HA	2.09	0.52
2:2R:284:ARG:HD3	2:2R:290:GLU:OE2	2.09	0.52
2:2T:269:MET:HE3	2:2T:381:SER:HB3	1.92	0.52
2:2U:394:GLN:HG2	1:3I:348:PRO:HG2	1.80	0.52
1:3C:244:PHE:HB2	1:3C:356:ASN:HD21	1.74	0.52
1:3N:259:LEU:HD11	1:3N:316:CYS:HB2	1.90	0.52
2:3H:88:ARG:HG2	2:3Z:283:TYR:HB3	1.90	0.52
2:3P:31:ASP:OD1	2:3P:35:SER:N	2.41	0.52
2:3T:283:TYR:HB3	2:3U:88:ARG:HG2	1.90	0.52
2:3W:284:ARG:HD3	2:3W:290:GLU:OE2	2.09	0.52
1:4I:259:LEU:HD11	1:4I:316:CYS:HB2	1.90	0.52
1:4J:244:PHE:HB2	1:4J:356:ASN:HD21	1.74	0.52
2:4O:31:ASP:OD1	2:4O:35:SER:N	2.41	0.52
1:1B:247:ALA:O	2:4O:15:GLN:OE1	2.27	0.52
1:1G:329:ASN:CB	2:4T:210:TYR:CD2	2.91	0.52
1:1L:346:TRP:O	2:4X:398:MET:HA	2.08	0.52
1:1M:348:PRO:HG3	2:4Y:394:GLN:CA	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1M:349:THR:OG1	2:4Y:184:PRO:HD3	2.08	0.52
2:1H:88:ARG:HG2	2:1Z:283:TYR:HB3	1.90	0.52
2:1R:176:LYS:O	1:2E:336:LYS:NZ	2.39	0.52
2:1T:11:GLN:HE22	1:2G:249:ASN:HB2	1.74	0.52
2:1U:214:PHE:CG	1:2I:326:LYS:NZ	2.78	0.52
2:1U:394:GLN:HG2	1:2I:348:PRO:HG3	1.91	0.52
2:1W:284:ARG:HD3	2:1W:290:GLU:OE2	2.09	0.52
2:1Y:180:THR:C	1:2M:258:ASN:ND2	2.53	0.52
1:2I:259:LEU:HD11	1:2I:316:CYS:HB2	1.90	0.52
2:2H:101:ASN:HB2	1:3A:254:GLU:CG	2.39	0.52
2:2H:178:SER:OG	1:3A:351:PHE:N	2.41	0.52
2:2P:177:VAL:CG2	1:3C:332:ILE:HG21	2.39	0.52
2:2W:11:GLN:CD	1:3K:249:ASN:H	2.08	0.52
2:2X:181:VAL:CB	1:3L:258:ASN:O	2.57	0.52
2:2Z:180:THR:CG2	1:3N:258:ASN:ND2	2.55	0.52
2:3O:31:ASP:OD1	2:3O:35:SER:N	2.41	0.52
2:3R:284:ARG:HD3	2:3R:290:GLU:OE2	2.09	0.52
2:3S:311:ARG:NH1	2:3S:341:SER:O	2.42	0.52
2:3T:269:MET:HE3	2:3T:381:SER:HB3	1.92	0.52
1:4A:259:LEU:HD11	1:4A:316:CYS:HB2	1.90	0.52
1:4N:259:LEU:HD11	1:4N:316:CYS:HB2	1.90	0.52
2:4P:31:ASP:OD1	2:4P:35:SER:N	2.41	0.52
2:4R:284:ARG:HD3	2:4R:290:GLU:OE2	2.09	0.52
2:4T:269:MET:HE3	2:4T:381:SER:HB3	1.92	0.52
2:4W:311:ARG:NH1	2:4W:341:SER:O	2.42	0.52
1:1E:349:THR:HG21	2:4R:184:PRO:CD	2.39	0.52
1:1L:326:LYS:HD2	2:4X:222:PRO:HD2	1.91	0.52
1:1M:263:PRO:CD	2:4Y:406:HIS:CG	2.76	0.52
2:1H:284:ARG:HD3	2:1H:290:GLU:OE2	2.09	0.52
2:1O:31:ASP:OD1	2:1O:35:SER:N	2.41	0.52
2:1S:100:GLY:CA	1:2F:253:THR:HG21	2.39	0.52
2:1Z:181:VAL:CB	1:2N:258:ASN:HD22	2.23	0.52
1:2K:132:LEU:HD23	1:2K:164:LYS:HZ3	1.75	0.52
2:2H:221:THR:C	1:3A:324:VAL:HG11	2.30	0.52
2:2O:182:VAL:HG21	1:3B:257:THR:HG22	1.91	0.52
2:2Q:223:THR:HA	1:3D:325:PRO:CD	2.40	0.52
2:2S:72:PRO:HD2	1:3F:2:ARG:HG2	1.91	0.52
2:2S:311:ARG:NH1	2:2S:341:SER:O	2.42	0.52
2:2T:178:SER:O	1:3G:351:PHE:O	2.27	0.52
2:2T:283:TYR:HB3	2:2U:88:ARG:HG2	1.90	0.52
2:2U:404:PHE:CZ	1:3I:261:PRO:CD	2.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2V:214:PHE:CG	1:3J:326:LYS:HE3	2.42	0.52
2:2W:181:VAL:H	1:3K:258:ASN:HD22	1.56	0.52
2:2W:284:ARG:HD3	2:2W:290:GLU:OE2	2.09	0.52
2:2W:311:ARG:NH1	2:2W:341:SER:O	2.42	0.52
2:2X:224:TYR:HH	1:3L:248:LEU:HD22	1.72	0.52
1:3I:259:LEU:HD11	1:3I:316:CYS:HB2	1.90	0.52
1:4D:244:PHE:HB2	1:4D:356:ASN:HD21	1.74	0.52
2:4T:283:TYR:HB3	2:4U:88:ARG:HG2	1.90	0.52
2:4W:284:ARG:HD3	2:4W:290:GLU:OE2	2.09	0.52
2:4Z:284:ARG:HD3	2:4Z:290:GLU:OE2	2.09	0.52
1:1A:261:PRO:N	2:4H:404:PHE:CD1	2.76	0.52
1:1A:262:TYR:OH	2:4H:403:ALA:CA	2.57	0.52
1:1A:262:TYR:CE2	2:4H:403:ALA:HA	2.44	0.52
1:1G:248:LEU:CD1	5:4T:501:GDP:H8	2.17	0.52
1:1G:324:VAL:CG1	2:4T:222:PRO:C	2.77	0.52
1:1I:2:ARG:CG	2:4U:72:PRO:CD	2.87	0.52
1:1I:259:LEU:HD11	1:1I:316:CYS:HB2	1.90	0.52
1:1I:326:LYS:HA	2:4U:210:TYR:CZ	2.44	0.52
1:1K:261:PRO:O	2:4W:406:HIS:HD2	1.85	0.52
2:1S:100:GLY:CA	1:2F:253:THR:HG22	2.38	0.52
2:1Z:284:ARG:HD3	2:1Z:290:GLU:OE2	2.09	0.52
2:2H:284:ARG:HD3	2:2H:290:GLU:OE2	2.09	0.52
2:2R:222:PRO:O	1:3E:324:VAL:CG1	2.58	0.52
2:2R:398:MET:HG2	1:3E:346:TRP:O	2.07	0.52
2:2T:404:PHE:CE1	1:3G:261:PRO:CD	2.93	0.52
2:2W:404:PHE:CD1	1:3K:260:VAL:C	2.82	0.52
2:2Z:284:ARG:HD3	2:2Z:290:GLU:OE2	2.09	0.52
1:3K:132:LEU:HD23	1:3K:164:LYS:HZ3	1.75	0.52
2:3H:284:ARG:HD3	2:3H:290:GLU:OE2	2.09	0.52
2:3W:311:ARG:NH1	2:3W:341:SER:O	2.42	0.52
2:3Z:284:ARG:HD3	2:3Z:290:GLU:OE2	2.09	0.52
1:4K:132:LEU:HD23	1:4K:164:LYS:HZ3	1.75	0.52
1:4M:27:GLU:OE2	1:4M:236:SER:OG	2.23	0.52
2:4H:284:ARG:HD3	2:4H:290:GLU:OE2	2.09	0.52
2:4S:311:ARG:NH1	2:4S:341:SER:O	2.42	0.52
1:1B:260:VAL:HB	2:4O:407:TRP:CE2	2.43	0.52
1:1D:349:THR:OG1	2:4Q:184:PRO:HD2	2.01	0.52
1:1D:439:SER:CB	2:4Q:400:ARG:CD	2.88	0.52
1:1E:2:ARG:CD	2:4R:72:PRO:HG2	2.38	0.52
1:1F:435:VAL:HA	2:4S:401:ARG:NH2	2.24	0.52
1:1J:326:LYS:HG3	2:4V:222:PRO:HG2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1O:11:GLN:HE22	1:2B:249:ASN:H	1.57	0.52
2:1O:284:ARG:HD3	2:1O:290:GLU:OE2	2.09	0.52
2:1Q:31:ASP:OD1	2:1Q:35:SER:N	2.41	0.52
2:1S:26:ASP:O	2:1S:369:ARG:NH2	2.43	0.52
2:1U:182:VAL:HG21	1:2I:257:THR:CG2	2.39	0.52
2:1V:406:HIS:CD2	1:2J:263:PRO:CD	2.89	0.52
2:1W:214:PHE:HB2	1:2K:326:LYS:CE	2.31	0.52
2:1W:311:ARG:NH1	2:1W:341:SER:O	2.42	0.52
1:2A:259:LEU:HD11	1:2A:316:CYS:HB2	1.90	0.52
1:2D:244:PHE:HB2	1:2D:356:ASN:HD21	1.74	0.52
2:2O:284:ARG:HD3	2:2O:290:GLU:OE2	2.09	0.52
2:2Q:31:ASP:OD1	2:2Q:35:SER:N	2.41	0.52
2:2T:177:VAL:CG2	1:3G:332:ILE:CG2	2.87	0.52
2:2U:181:VAL:HG11	1:3I:314:ALA:HB2	1.92	0.52
2:2V:177:VAL:CG2	1:3J:332:ILE:HG21	2.39	0.52
2:2V:398:MET:HG2	1:3J:346:TRP:O	2.10	0.52
2:2Z:406:HIS:CE1	1:3N:263:PRO:HB3	2.44	0.52
2:3O:284:ARG:HD3	2:3O:290:GLU:OE2	2.09	0.52
1:4E:244:PHE:HB2	1:4E:356:ASN:HD21	1.74	0.52
2:4Q:31:ASP:OD1	2:4Q:35:SER:N	2.41	0.52
2:4S:269:MET:HE3	2:4S:381:SER:HB3	1.92	0.52
2:4V:31:ASP:OD1	2:4V:35:SER:N	2.41	0.52
1:1A:259:LEU:HD11	1:1A:316:CYS:HB2	1.90	0.52
1:1A:262:TYR:OH	2:4H:403:ALA:N	2.42	0.52
1:1D:2:ARG:HG2	2:4Q:72:PRO:HD2	1.85	0.52
1:1D:244:PHE:HB2	1:1D:356:ASN:HD21	1.74	0.52
1:1I:247:ALA:C	2:4U:15:GLN:HE22	2.06	0.52
1:1I:346:TRP:CZ3	2:4U:403:ALA:CB	2.92	0.52
1:1L:346:TRP:O	2:4X:398:MET:CA	2.57	0.52
1:1M:329:ASN:ND2	2:4Y:210:TYR:CE2	2.75	0.52
1:1N:248:LEU:C	2:4Z:11:GLN:HE22	2.05	0.52
1:1N:332:ILE:HG21	2:4Z:177:VAL:CG2	2.40	0.52
2:1P:51:VAL:HG11	2:1P:243:ARG:HG2	1.92	0.52
2:1P:224:TYR:HE2	1:2C:248:LEU:HB2	1.75	0.52
2:1R:51:VAL:HG11	2:1R:243:ARG:HG2	1.92	0.52
2:1T:394:GLN:HG2	1:2G:348:PRO:HG3	1.92	0.52
2:1U:26:ASP:O	2:1U:369:ARG:NH2	2.43	0.52
2:1V:31:ASP:OD1	2:1V:35:SER:N	2.41	0.52
2:1X:284:ARG:HD3	2:1X:290:GLU:OE2	2.09	0.52
2:1Z:51:VAL:HG11	2:1Z:243:ARG:HG2	1.92	0.52
1:2E:244:PHE:HB2	1:2E:356:ASN:HD21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2H:31:ASP:OD1	2:2H:35:SER:N	2.41	0.52
2:2H:181:VAL:N	1:3A:258:ASN:HD22	2.08	0.52
2:2U:26:ASP:O	2:2U:369:ARG:NH2	2.43	0.52
2:2V:31:ASP:OD1	2:2V:35:SER:N	2.41	0.52
2:2V:406:HIS:CE1	1:3J:263:PRO:CB	2.93	0.52
2:2Y:210:TYR:HD2	1:3M:329:ASN:ND2	1.94	0.52
2:2Y:404:PHE:CD1	1:3M:260:VAL:O	2.62	0.52
2:2Z:51:VAL:HG11	2:2Z:243:ARG:HG2	1.92	0.52
1:3A:259:LEU:HD11	1:3A:316:CYS:HB2	1.90	0.52
1:3D:244:PHE:HB2	1:3D:356:ASN:HD21	1.74	0.52
2:3P:51:VAL:HG11	2:3P:243:ARG:HG2	1.92	0.52
2:3Q:31:ASP:OD1	2:3Q:35:SER:N	2.41	0.52
2:3R:51:VAL:HG11	2:3R:243:ARG:HG2	1.92	0.52
2:3U:26:ASP:O	2:3U:369:ARG:NH2	2.43	0.52
2:3V:31:ASP:OD1	2:3V:35:SER:N	2.41	0.52
2:3Z:51:VAL:HG11	2:3Z:243:ARG:HG2	1.92	0.52
2:4H:31:ASP:OD1	2:4H:35:SER:N	2.41	0.52
2:4O:284:ARG:HD3	2:4O:290:GLU:OE2	2.09	0.52
2:4R:51:VAL:HG11	2:4R:243:ARG:HG2	1.92	0.52
2:4Y:31:ASP:OD1	2:4Y:35:SER:N	2.41	0.52
1:1C:260:VAL:CG1	2:4P:407:TRP:NE1	2.69	0.52
1:1E:314:ALA:CB	2:4R:181:VAL:CG1	2.75	0.52
1:1G:346:TRP:CE2	2:4T:403:ALA:CB	2.93	0.52
1:1I:254:GLU:HG2	2:4U:101:ASN:N	2.24	0.52
1:1J:325:PRO:HG2	2:4V:224:TYR:CG	2.44	0.52
1:1K:286:LEU:O	1:1K:373:ARG:NH1	2.35	0.52
2:1O:26:ASP:O	2:1O:369:ARG:NH2	2.43	0.52
2:1P:222:PRO:HD2	1:2C:326:LYS:HB3	1.90	0.52
2:1Z:26:ASP:O	2:1Z:369:ARG:NH2	2.43	0.52
2:2O:26:ASP:O	2:2O:369:ARG:NH2	2.43	0.52
2:2O:51:VAL:HG11	2:2O:243:ARG:HG2	1.92	0.52
2:2P:72:PRO:CD	1:3C:2:ARG:CG	2.87	0.52
2:2P:101:ASN:HB2	1:3C:254:GLU:CG	2.40	0.52
2:2Q:269:MET:HE3	2:2Q:381:SER:HB3	1.92	0.52
2:2R:51:VAL:HG11	2:2R:243:ARG:HG2	1.92	0.52
2:2S:26:ASP:O	2:2S:369:ARG:NH2	2.43	0.52
2:2W:11:GLN:NE2	1:3K:249:ASN:N	2.26	0.52
2:2Y:178:SER:O	1:3M:351:PHE:CB	2.57	0.52
2:2Y:394:GLN:OE1	1:3M:349:THR:CG2	2.58	0.52
2:2Z:26:ASP:O	2:2Z:369:ARG:NH2	2.43	0.52
2:3H:31:ASP:OD1	2:3H:35:SER:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3O:26:ASP:O	2:3O:369:ARG:NH2	2.43	0.52
2:3Q:51:VAL:HG11	2:3Q:243:ARG:HG2	1.92	0.52
2:3S:26:ASP:O	2:3S:369:ARG:NH2	2.43	0.52
2:3X:284:ARG:HD3	2:3X:290:GLU:OE2	2.09	0.52
2:3Z:26:ASP:O	2:3Z:369:ARG:NH2	2.43	0.52
2:4O:51:VAL:HG11	2:4O:243:ARG:HG2	1.92	0.52
2:4P:51:VAL:HG11	2:4P:243:ARG:HG2	1.92	0.52
2:4Q:51:VAL:HG11	2:4Q:243:ARG:HG2	1.92	0.52
2:4Q:269:MET:HE3	2:4Q:381:SER:HB3	1.92	0.52
2:4S:26:ASP:O	2:4S:369:ARG:NH2	2.43	0.52
2:4S:31:ASP:OD1	2:4S:35:SER:N	2.41	0.52
2:4U:26:ASP:O	2:4U:369:ARG:NH2	2.43	0.52
2:4U:311:ARG:NH1	2:4U:341:SER:O	2.42	0.52
2:4X:284:ARG:HD3	2:4X:290:GLU:OE2	2.09	0.52
2:4Z:26:ASP:O	2:4Z:369:ARG:NH2	2.43	0.52
2:4Z:51:VAL:HG11	2:4Z:243:ARG:HG2	1.92	0.52
1:1D:261:PRO:HA	2:4Q:404:PHE:CD1	2.45	0.52
1:1E:262:TYR:CZ	2:4R:403:ALA:N	2.77	0.52
1:1L:348:PRO:CB	2:4X:394:GLN:HG2	2.39	0.52
2:1H:31:ASP:OD1	2:1H:35:SER:N	2.41	0.52
2:1H:51:VAL:HG11	2:1H:243:ARG:HG2	1.92	0.52
2:1O:51:VAL:HG11	2:1O:243:ARG:HG2	1.92	0.52
2:1O:269:MET:HE3	2:1O:381:SER:HB3	1.92	0.52
2:1Q:269:MET:HE3	2:1Q:381:SER:HB3	1.92	0.52
2:1S:406:HIS:CE1	1:2F:263:PRO:HB3	2.45	0.52
2:1U:311:ARG:NH1	2:1U:341:SER:O	2.41	0.52
2:1W:26:ASP:O	2:1W:369:ARG:NH2	2.43	0.52
2:1W:221:THR:C	1:2K:324:VAL:CG1	2.78	0.52
2:1X:26:ASP:O	2:1X:369:ARG:NH2	2.43	0.52
2:1Y:51:VAL:HG11	2:1Y:243:ARG:HG2	1.92	0.52
2:1Y:221:THR:HB	1:2M:324:VAL:HG21	1.90	0.52
2:2H:51:VAL:HG11	2:2H:243:ARG:HG2	1.92	0.52
2:2O:269:MET:HE3	2:2O:381:SER:HB3	1.92	0.52
2:2P:51:VAL:HG11	2:2P:243:ARG:HG2	1.92	0.52
2:2Q:51:VAL:HG11	2:2Q:243:ARG:HG2	1.92	0.52
2:2S:31:ASP:OD1	2:2S:35:SER:N	2.41	0.52
2:2U:311:ARG:NH1	2:2U:341:SER:O	2.42	0.52
2:2U:406:HIS:CE1	1:3I:263:PRO:HB3	2.45	0.52
2:2W:26:ASP:O	2:2W:369:ARG:NH2	2.43	0.52
2:2X:284:ARG:HD3	2:2X:290:GLU:OE2	2.09	0.52
2:2Y:31:ASP:OD1	2:2Y:35:SER:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Z:404:PHE:CD1	1:3N:260:VAL:C	2.83	0.52
1:3E:244:PHE:HB2	1:3E:356:ASN:HD21	1.74	0.52
2:3O:51:VAL:HG11	2:3O:243:ARG:HG2	1.92	0.52
2:3O:269:MET:HE3	2:3O:381:SER:HB3	1.92	0.52
2:3Q:269:MET:HE3	2:3Q:381:SER:HB3	1.92	0.52
2:3U:311:ARG:NH1	2:3U:341:SER:O	2.42	0.52
2:3W:26:ASP:O	2:3W:369:ARG:NH2	2.43	0.52
1:4F:244:PHE:HB2	1:4F:356:ASN:HD21	1.74	0.52
2:4O:26:ASP:O	2:4O:369:ARG:NH2	2.43	0.52
2:4R:26:ASP:O	2:4R:369:ARG:NH2	2.43	0.52
2:4W:26:ASP:O	2:4W:369:ARG:NH2	2.43	0.52
2:4Y:51:VAL:HG11	2:4Y:243:ARG:HG2	1.92	0.52
1:1E:244:PHE:HB2	1:1E:356:ASN:HD21	1.74	0.52
1:1E:353:VAL:HG23	2:4R:179:ASP:OD1	2.08	0.52
1:1I:441:GLU:O	2:4U:400:ARG:NH1	2.43	0.52
1:1K:132:LEU:HD23	1:1K:164:LYS:HZ3	1.75	0.52
1:1K:348:PRO:HD2	2:4W:398:MET:CG	2.40	0.52
1:1L:248:LEU:HD13	5:4X:501:GDP:H8	1.75	0.52
1:1L:348:PRO:HG3	2:4X:394:GLN:HA	1.92	0.52
1:1N:261:PRO:HB3	2:4Z:404:PHE:CE1	2.45	0.52
2:1P:284:ARG:HD3	2:1P:290:GLU:OE2	2.09	0.52
2:1Q:26:ASP:O	2:1Q:369:ARG:NH2	2.43	0.52
2:1Q:221:THR:OG1	1:2D:324:VAL:CG1	2.57	0.52
2:1U:404:PHE:CD2	1:2I:261:PRO:CA	2.82	0.52
2:1V:269:MET:HE3	2:1V:381:SER:HB3	1.92	0.52
2:1X:404:PHE:CD2	1:2L:261:PRO:CA	2.76	0.52
2:1Y:26:ASP:O	2:1Y:369:ARG:NH2	2.43	0.52
2:1Z:182:VAL:HG21	1:2N:257:THR:HG22	1.92	0.52
2:2H:11:GLN:CD	1:3A:249:ASN:H	2.11	0.52
2:2H:181:VAL:H	1:3A:258:ASN:HD22	1.56	0.52
2:2Q:26:ASP:O	2:2Q:369:ARG:NH2	2.43	0.52
2:2R:72:PRO:CG	1:3E:2:ARG:CG	2.83	0.52
2:2U:398:MET:HA	1:3I:346:TRP:HB2	1.92	0.52
2:2Y:51:VAL:HG11	2:2Y:243:ARG:HG2	1.92	0.52
2:2Y:180:THR:CG2	1:3M:258:ASN:ND2	2.54	0.52
2:2Z:178:SER:OG	1:3N:351:PHE:N	2.42	0.52
1:3K:286:LEU:O	1:3K:373:ARG:NH1	2.35	0.52
2:3R:26:ASP:O	2:3R:369:ARG:NH2	2.43	0.52
2:3S:31:ASP:OD1	2:3S:35:SER:N	2.41	0.52
2:3X:26:ASP:O	2:3X:369:ARG:NH2	2.43	0.52
2:3Y:31:ASP:OD1	2:3Y:35:SER:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3Y:51:VAL:HG11	2:3Y:243:ARG:HG2	1.92	0.52
2:4H:51:VAL:HG11	2:4H:243:ARG:HG2	1.92	0.52
1:1C:352:LYS:HA	2:4P:179:ASP:C	2.29	0.51
1:1D:247:ALA:O	2:4Q:15:GLN:CD	2.49	0.51
1:1D:262:TYR:CE1	2:4Q:402:LYS:C	2.83	0.51
1:1D:314:ALA:HB2	2:4Q:181:VAL:CG1	2.27	0.51
1:1I:439:SER:OG	2:4U:401:ARG:HD3	2.10	0.51
1:1J:346:TRP:CD2	2:4V:403:ALA:HB3	2.44	0.51
1:1K:326:LYS:HG3	2:4W:222:PRO:CG	2.40	0.51
1:1L:349:THR:HA	2:4X:178:SER:CB	2.40	0.51
2:1H:404:PHE:N	1:2A:261:PRO:O	2.28	0.51
2:1O:404:PHE:CD1	1:2B:261:PRO:HA	2.44	0.51
2:1Q:51:VAL:HG11	2:1Q:243:ARG:HG2	1.92	0.51
2:1R:26:ASP:O	2:1R:369:ARG:NH2	2.43	0.51
2:1Y:31:ASP:OD1	2:1Y:35:SER:N	2.41	0.51
2:1Z:394:GLN:OE1	1:2N:349:THR:HG21	2.09	0.51
1:2K:286:LEU:O	1:2K:373:ARG:NH1	2.35	0.51
2:2O:178:SER:OG	1:3B:351:PHE:N	2.42	0.51
2:2O:404:PHE:H	1:3B:261:PRO:CA	2.24	0.51
2:2P:284:ARG:HD3	2:2P:290:GLU:OE2	2.09	0.51
2:2Q:210:TYR:CE2	1:3D:329:ASN:HB2	2.44	0.51
2:2R:26:ASP:O	2:2R:369:ARG:NH2	2.43	0.51
2:2R:404:PHE:H	1:3E:261:PRO:CA	2.23	0.51
2:2S:394:GLN:OE1	1:3F:349:THR:CG2	2.58	0.51
2:2T:403:ALA:HB1	1:3G:261:PRO:HB2	1.92	0.51
2:2T:404:PHE:CE1	1:3G:261:PRO:CA	2.93	0.51
2:2V:210:TYR:HD2	1:3J:329:ASN:HD22	0.82	0.51
2:2X:26:ASP:O	2:2X:369:ARG:NH2	2.43	0.51
2:2Y:284:ARG:HD3	2:2Y:290:GLU:OE2	2.09	0.51
2:2Y:404:PHE:CA	1:3M:261:PRO:O	2.57	0.51
2:3H:51:VAL:HG11	2:3H:243:ARG:HG2	1.92	0.51
2:3P:284:ARG:HD3	2:3P:290:GLU:OE2	2.09	0.51
2:3Q:26:ASP:O	2:3Q:369:ARG:NH2	2.43	0.51
2:4P:26:ASP:O	2:4P:369:ARG:NH2	2.43	0.51
2:4P:284:ARG:HD3	2:4P:290:GLU:OE2	2.09	0.51
2:4Q:26:ASP:O	2:4Q:369:ARG:NH2	2.43	0.51
2:4Q:284:ARG:HD3	2:4Q:290:GLU:OE2	2.09	0.51
2:4X:26:ASP:O	2:4X:369:ARG:NH2	2.43	0.51
2:4X:51:VAL:HG11	2:4X:243:ARG:HG2	1.92	0.51
2:4Y:284:ARG:HD3	2:4Y:290:GLU:OE2	2.09	0.51
1:1C:132:LEU:HD23	1:1C:164:LYS:HZ3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:346:TRP:CA	2:4P:397:ALA:C	2.77	0.51
1:1F:346:TRP:CA	2:4S:397:ALA:C	2.70	0.51
1:1I:350:GLY:C	2:4U:181:VAL:HG22	2.31	0.51
1:1N:352:LYS:HA	2:4Z:179:ASP:O	2.10	0.51
2:1P:26:ASP:O	2:1P:369:ARG:NH2	2.43	0.51
2:1P:403:ALA:HB2	1:2C:262:TYR:OH	2.10	0.51
2:1S:31:ASP:OD1	2:1S:35:SER:N	2.41	0.51
2:1T:51:VAL:HG11	2:1T:243:ARG:HG2	1.92	0.51
2:1U:269:MET:HE3	2:1U:381:SER:HB3	1.92	0.51
2:1V:26:ASP:O	2:1V:369:ARG:NH2	2.43	0.51
1:2F:244:PHE:HB2	1:2F:356:ASN:HD21	1.74	0.51
2:2H:214:PHE:CD1	1:3A:326:LYS:CE	2.92	0.51
2:2P:26:ASP:O	2:2P:369:ARG:NH2	2.43	0.51
2:2Q:284:ARG:HD3	2:2Q:290:GLU:OE2	2.09	0.51
2:2S:406:HIS:CE1	1:3F:263:PRO:HA	2.46	0.51
2:2X:51:VAL:HG11	2:2X:243:ARG:HG2	1.92	0.51
2:2X:73:GLY:HA3	1:3L:2:ARG:CZ	2.40	0.51
2:2Y:26:ASP:O	2:2Y:369:ARG:NH2	2.43	0.51
2:3P:26:ASP:O	2:3P:369:ARG:NH2	2.43	0.51
2:3T:51:VAL:HG11	2:3T:243:ARG:HG2	1.92	0.51
2:3Y:26:ASP:O	2:3Y:369:ARG:NH2	2.43	0.51
2:4Y:26:ASP:O	2:4Y:369:ARG:NH2	2.43	0.51
1:1C:349:THR:OG1	2:4P:184:PRO:HG2	2.08	0.51
1:1F:244:PHE:HB2	1:1F:356:ASN:HD21	1.74	0.51
1:1F:263:PRO:HD3	2:4S:406:HIS:HB3	1.89	0.51
1:1G:325:PRO:HB3	2:4T:224:TYR:CZ	2.46	0.51
1:1G:350:GLY:HA2	2:4T:181:VAL:HG13	1.92	0.51
1:1I:324:VAL:HG12	2:4U:222:PRO:O	2.09	0.51
1:1I:348:PRO:CG	2:4U:394:GLN:HG2	2.40	0.51
1:1K:348:PRO:CB	2:4W:394:GLN:HG2	2.40	0.51
1:1M:348:PRO:HG3	2:4Y:394:GLN:HG2	1.91	0.51
2:1R:31:ASP:OD1	2:1R:35:SER:N	2.41	0.51
2:1S:51:VAL:HG11	2:1S:243:ARG:HG2	1.92	0.51
2:1W:224:TYR:CD2	1:2K:247:ALA:C	2.81	0.51
2:1X:181:VAL:CB	1:2L:258:ASN:C	2.78	0.51
2:1Y:221:THR:CA	1:2M:324:VAL:CG1	2.77	0.51
2:1Y:284:ARG:HD3	2:1Y:290:GLU:OE2	2.09	0.51
2:2T:51:VAL:HG11	2:2T:243:ARG:HG2	1.92	0.51
2:2T:404:PHE:CZ	1:3G:261:PRO:CB	2.88	0.51
2:2X:406:HIS:NE2	1:3L:262:TYR:C	2.64	0.51
2:2Y:72:PRO:HD2	1:3M:2:ARG:HD3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Z:72:PRO:HD2	1:3N:2:ARG:HG2	1.92	0.51
1:3F:244:PHE:HB2	1:3F:356:ASN:HD21	1.74	0.51
2:3Q:284:ARG:HD3	2:3Q:290:GLU:OE2	2.09	0.51
2:3T:44:LEU:HA	2:3T:49:ILE:HB	1.93	0.51
2:3V:26:ASP:O	2:3V:369:ARG:NH2	2.43	0.51
2:3X:51:VAL:HG11	2:3X:243:ARG:HG2	1.92	0.51
2:3Y:284:ARG:HD3	2:3Y:290:GLU:OE2	2.09	0.51
1:1B:261:PRO:O	2:4O:404:PHE:HA	2.10	0.51
1:1C:336:LYS:HD3	2:4P:176:LYS:O	2.10	0.51
1:1D:261:PRO:HD3	2:4Q:404:PHE:CZ	2.46	0.51
1:1F:248:LEU:HA	2:4S:11:GLN:CD	2.30	0.51
1:1G:262:TYR:OH	2:4T:403:ALA:CA	2.59	0.51
1:1K:262:TYR:OH	2:4W:403:ALA:HA	2.10	0.51
1:1M:260:VAL:HG11	2:4Y:407:TRP:CZ2	2.45	0.51
2:1H:403:ALA:HB1	1:2A:261:PRO:HB2	1.91	0.51
2:1P:178:SER:O	1:2C:351:PHE:O	2.28	0.51
2:1P:214:PHE:CG	1:2C:326:LYS:HE2	2.45	0.51
2:1Q:284:ARG:HD3	2:1Q:290:GLU:OE2	2.09	0.51
2:1T:26:ASP:O	2:1T:369:ARG:NH2	2.43	0.51
2:1U:11:GLN:HB3	5:1U:501:GDP:O1A	2.11	0.51
2:1X:51:VAL:HG11	2:1X:243:ARG:HG2	1.92	0.51
2:1Z:179:ASP:OD2	1:2N:248:LEU:CD2	2.57	0.51
2:1Z:224:TYR:CE2	1:2N:247:ALA:O	2.63	0.51
1:2J:132:LEU:HD23	1:2J:164:LYS:HZ3	1.75	0.51
2:2O:100:GLY:HA3	1:3B:253:THR:HG21	1.89	0.51
2:2T:44:LEU:HA	2:2T:49:ILE:HB	1.93	0.51
2:2V:26:ASP:O	2:2V:369:ARG:NH2	2.43	0.51
2:2W:72:PRO:HG2	1:3K:2:ARG:CG	2.29	0.51
1:3J:132:LEU:HD23	1:3J:164:LYS:HZ3	1.75	0.51
2:3R:31:ASP:OD1	2:3R:35:SER:N	2.41	0.51
1:4J:132:LEU:HD23	1:4J:164:LYS:HZ3	1.75	0.51
2:4S:51:VAL:HG11	2:4S:243:ARG:HG2	1.92	0.51
2:4T:44:LEU:HA	2:4T:49:ILE:HB	1.93	0.51
2:4T:51:VAL:HG11	2:4T:243:ARG:HG2	1.92	0.51
2:4V:51:VAL:HG11	2:4V:243:ARG:HG2	1.92	0.51
1:1A:324:VAL:HG11	2:4H:221:THR:C	2.29	0.51
1:1B:329:ASN:HB2	2:4O:210:TYR:CD2	2.44	0.51
1:1B:332:ILE:CB	2:4O:177:VAL:HG23	2.39	0.51
1:1C:2:ARG:HG2	2:4P:72:PRO:CD	2.40	0.51
1:1F:349:THR:CB	2:4S:184:PRO:CD	2.72	0.51
1:1G:347:CYS:HA	2:4T:398:MET:CG	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1I:324:VAL:HG21	2:4U:221:THR:OG1	2.10	0.51
1:1J:132:LEU:HD23	1:1J:164:LYS:HZ3	1.75	0.51
1:1J:349:THR:O	2:4V:181:VAL:O	2.28	0.51
1:1J:353:VAL:CG2	2:4V:179:ASP:OD1	2.58	0.51
1:1L:245:ASP:OD1	2:4X:77:SER:CB	2.43	0.51
2:1Q:11:GLN:HB3	5:1Q:501:GDP:O1A	2.11	0.51
2:1R:269:MET:HE3	2:1R:381:SER:HB3	1.93	0.51
2:1T:44:LEU:HA	2:1T:49:ILE:HB	1.93	0.51
2:1V:51:VAL:HG11	2:1V:243:ARG:HG2	1.92	0.51
2:1Z:404:PHE:CD2	1:2N:261:PRO:HA	2.46	0.51
2:2H:11:GLN:OE1	1:3A:249:ASN:HB2	2.11	0.51
2:2O:101:ASN:HB2	1:3B:254:GLU:CB	2.40	0.51
2:2O:101:ASN:N	1:3B:254:GLU:HG2	2.25	0.51
2:2P:221:THR:HA	1:3C:324:VAL:HG11	1.92	0.51
2:2R:31:ASP:OD1	2:2R:35:SER:N	2.41	0.51
2:2S:11:GLN:HB3	5:2S:501:GDP:O1A	2.11	0.51
2:2S:51:VAL:HG11	2:2S:243:ARG:HG2	1.92	0.51
2:2T:26:ASP:O	2:2T:369:ARG:NH2	2.43	0.51
2:2U:11:GLN:HB3	5:2U:501:GDP:O1A	2.11	0.51
2:2V:51:VAL:HG11	2:2V:243:ARG:HG2	1.92	0.51
2:3S:11:GLN:HB3	5:3S:501:GDP:O1A	2.11	0.51
2:3S:44:LEU:HA	2:3S:49:ILE:HB	1.93	0.51
2:3S:51:VAL:HG11	2:3S:243:ARG:HG2	1.92	0.51
2:3T:26:ASP:O	2:3T:369:ARG:NH2	2.43	0.51
2:3U:11:GLN:HB3	5:3U:501:GDP:O1A	2.11	0.51
2:3V:51:VAL:HG11	2:3V:243:ARG:HG2	1.92	0.51
2:4S:11:GLN:HB3	5:4S:501:GDP:O1A	2.11	0.51
2:4T:26:ASP:O	2:4T:369:ARG:NH2	2.43	0.51
2:4U:11:GLN:HB3	5:4U:501:GDP:O1A	2.11	0.51
2:4V:26:ASP:O	2:4V:369:ARG:NH2	2.43	0.51
1:1D:260:VAL:HG11	2:4Q:407:TRP:CZ2	2.46	0.51
1:1E:260:VAL:C	2:4R:407:TRP:HE1	2.13	0.51
1:1E:262:TYR:CE2	2:4R:403:ALA:HB2	2.45	0.51
1:1F:349:THR:HG23	2:4S:184:PRO:HG3	1.91	0.51
1:1G:257:THR:CG2	2:4T:102:ASN:HB2	2.40	0.51
1:1N:263:PRO:CD	2:4Z:406:HIS:NE2	2.70	0.51
2:1R:100:GLY:HA2	1:2E:253:THR:CB	2.41	0.51
2:1S:11:GLN:HB3	5:1S:501:GDP:O1A	2.11	0.51
2:1S:44:LEU:HA	2:1S:49:ILE:HB	1.93	0.51
2:1U:51:VAL:HG11	2:1U:243:ARG:HG2	1.92	0.51
2:1Y:269:MET:HE3	2:1Y:381:SER:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1Z:214:PHE:CD1	1:2N:326:LYS:HE2	2.44	0.51
2:2P:11:GLN:OE1	1:3C:249:ASN:HB2	2.11	0.51
2:2Q:11:GLN:HB3	5:2Q:501:GDP:O1A	2.11	0.51
2:2Q:222:PRO:O	1:3D:324:VAL:HG13	2.11	0.51
2:2S:44:LEU:HA	2:2S:49:ILE:HB	1.93	0.51
2:2U:269:MET:HE3	2:2U:381:SER:HB3	1.93	0.51
2:2Y:269:MET:HE3	2:2Y:381:SER:HB3	1.92	0.51
2:3Q:11:GLN:HB3	5:3Q:501:GDP:O1A	2.11	0.51
2:3Y:269:MET:HE3	2:3Y:381:SER:HB3	1.92	0.51
2:4Q:11:GLN:HB3	5:4Q:501:GDP:O1A	2.11	0.51
2:4R:31:ASP:OD1	2:4R:35:SER:N	2.41	0.51
2:4Z:31:ASP:OD1	2:4Z:35:SER:N	2.41	0.51
1:1A:258:ASN:HD21	2:4H:101:ASN:ND2	2.07	0.51
1:1B:324:VAL:HG11	2:4O:221:THR:C	2.32	0.51
1:1F:325:PRO:HB3	2:4S:224:TYR:CZ	2.46	0.51
1:1G:261:PRO:HB2	2:4T:404:PHE:N	2.20	0.51
1:1L:253:THR:C	2:4X:100:GLY:HA2	2.30	0.51
2:1U:214:PHE:CB	1:2I:326:LYS:CE	2.75	0.51
2:1X:403:ALA:HB2	1:2L:262:TYR:CE2	2.45	0.51
2:1Y:221:THR:HG1	1:2M:324:VAL:HG21	1.73	0.51
2:2O:181:VAL:H	1:3B:258:ASN:ND2	2.09	0.51
2:2P:11:GLN:HB3	5:2P:501:GDP:O1A	2.11	0.51
2:2Q:101:ASN:HB2	1:3D:254:GLU:CB	2.41	0.51
2:2R:404:PHE:CZ	1:3E:261:PRO:HD3	2.46	0.51
2:2U:51:VAL:HG11	2:2U:243:ARG:HG2	1.92	0.51
2:2U:406:HIS:ND1	1:3I:263:PRO:HB3	2.25	0.51
2:2W:51:VAL:HG11	2:2W:243:ARG:HG2	1.92	0.51
2:2W:101:ASN:C	1:3K:257:THR:HG21	2.30	0.51
2:2Z:31:ASP:OD1	2:2Z:35:SER:N	2.41	0.51
2:2Z:182:VAL:HG21	1:3N:257:THR:HG22	1.91	0.51
1:3C:132:LEU:HD23	1:3C:164:LYS:HZ3	1.76	0.51
2:3P:11:GLN:HB3	5:3P:501:GDP:O1A	2.11	0.51
2:3U:51:VAL:HG11	2:3U:243:ARG:HG2	1.92	0.51
2:3U:269:MET:HE3	2:3U:381:SER:HB3	1.93	0.51
2:3W:51:VAL:HG11	2:3W:243:ARG:HG2	1.92	0.51
2:3Z:31:ASP:OD1	2:3Z:35:SER:N	2.41	0.51
2:4P:11:GLN:HB3	5:4P:501:GDP:O1A	2.11	0.51
2:4S:44:LEU:HA	2:4S:49:ILE:HB	1.93	0.51
2:4U:269:MET:HE3	2:4U:381:SER:HB3	1.93	0.51
2:4Y:269:MET:HE3	2:4Y:381:SER:HB3	1.92	0.51
1:1B:260:VAL:O	2:4O:407:TRP:HD1	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:262:TYR:CE2	2:4O:403:ALA:CA	2.90	0.51
1:1F:2:ARG:HH11	2:4S:71:GLU:HB2	1.75	0.51
1:1G:332:ILE:HG21	2:4T:177:VAL:CG2	2.38	0.51
1:1N:326:LYS:HG3	2:4Z:222:PRO:CG	2.41	0.51
2:1H:26:ASP:O	2:1H:369:ARG:NH2	2.43	0.51
2:1P:11:GLN:HB3	5:1P:501:GDP:O1A	2.11	0.51
2:1W:44:LEU:HA	2:1W:49:ILE:HB	1.93	0.51
2:1W:51:VAL:HG11	2:1W:243:ARG:HG2	1.92	0.51
2:1X:224:TYR:HE2	1:2L:248:LEU:CB	2.24	0.51
2:1Y:406:HIS:CE1	1:2M:263:PRO:HB3	2.46	0.51
2:1Z:31:ASP:OD1	2:1Z:35:SER:N	2.41	0.51
2:1Z:181:VAL:CB	1:2N:258:ASN:O	2.59	0.51
2:1Z:404:PHE:CD1	1:2N:260:VAL:O	2.64	0.51
1:2C:132:LEU:HD23	1:2C:164:LYS:HZ3	1.76	0.51
2:2O:214:PHE:CG	1:3B:326:LYS:HE3	2.45	0.51
2:2P:214:PHE:CG	1:3C:326:LYS:CE	2.94	0.51
2:2V:404:PHE:CD1	1:3J:260:VAL:C	2.84	0.51
2:2W:44:LEU:HA	2:2W:49:ILE:HB	1.93	0.51
1:4C:132:LEU:HD23	1:4C:164:LYS:HZ3	1.76	0.51
2:4U:51:VAL:HG11	2:4U:243:ARG:HG2	1.92	0.51
2:4W:51:VAL:HG11	2:4W:243:ARG:HG2	1.92	0.51
1:1B:254:GLU:CB	2:4O:101:ASN:HB2	2.41	0.51
1:1C:248:LEU:CA	2:4P:11:GLN:NE2	2.73	0.51
1:1E:2:ARG:NE	2:4R:72:PRO:HG2	2.26	0.51
1:1F:353:VAL:HG23	2:4S:179:ASP:HA	1.93	0.51
1:1M:324:VAL:CG1	2:4Y:222:PRO:O	2.59	0.51
2:1P:404:PHE:CG	1:2C:261:PRO:HA	2.45	0.51
2:1R:11:GLN:HB3	5:1R:501:GDP:O1A	2.11	0.51
2:1W:11:GLN:HB3	5:1W:501:GDP:O1A	2.11	0.51
2:1W:71:GLU:HB2	1:2K:2:ARG:HD3	1.92	0.51
2:2O:394:GLN:HG2	1:3B:348:PRO:CB	2.41	0.51
2:2P:72:PRO:HD2	1:3C:2:ARG:HG2	1.93	0.51
2:2R:11:GLN:HB3	5:2R:501:GDP:O1A	2.11	0.51
2:2X:404:PHE:CD1	1:3L:260:VAL:O	2.63	0.51
2:2Z:401:ARG:NH2	1:3N:435:VAL:HA	2.26	0.51
2:3H:26:ASP:O	2:3H:369:ARG:NH2	2.43	0.51
2:3R:11:GLN:HB3	5:3R:501:GDP:O1A	2.11	0.51
2:3R:269:MET:HE3	2:3R:381:SER:HB3	1.93	0.51
2:3W:44:LEU:HA	2:3W:49:ILE:HB	1.93	0.51
2:4R:11:GLN:HB3	5:4R:501:GDP:O1A	2.11	0.51
2:4U:44:LEU:HA	2:4U:49:ILE:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:332:ILE:HB	2:4O:177:VAL:CG2	2.41	0.51
1:1C:326:LYS:CB	2:4P:222:PRO:CG	2.86	0.51
1:1F:251:ASP:OD2	2:4S:98:GLY:CA	2.59	0.51
1:1J:261:PRO:HB2	2:4V:404:PHE:H	1.76	0.51
2:1H:11:GLN:HB3	5:1H:501:GDP:O1A	2.11	0.51
2:1S:404:PHE:CE2	1:2F:261:PRO:CA	2.91	0.51
2:1W:275:LEU:H	2:1W:294:GLN:HE22	1.59	0.51
2:2H:403:ALA:CA	1:3A:262:TYR:CZ	2.94	0.51
2:2O:11:GLN:HB3	5:2O:501:GDP:O1A	2.11	0.51
2:2O:403:ALA:CA	1:3B:262:TYR:CZ	2.94	0.51
2:2R:221:THR:C	1:3E:324:VAL:HG11	2.32	0.51
2:2R:398:MET:CG	1:3E:346:TRP:O	2.59	0.51
2:2Z:181:VAL:HG23	1:3N:258:ASN:HB3	1.92	0.51
2:4W:11:GLN:HB3	5:4W:501:GDP:O1A	2.11	0.51
2:4W:44:LEU:HA	2:4W:49:ILE:HB	1.93	0.51
1:1B:336:LYS:NZ	2:4O:176:LYS:O	2.30	0.50
1:1F:261:PRO:HB3	2:4S:404:PHE:CE2	2.45	0.50
1:1G:346:TRP:CE3	2:4T:403:ALA:CB	2.92	0.50
1:1K:251:ASP:OD2	2:4W:71:GLU:HB3	2.12	0.50
1:1K:263:PRO:CD	2:4W:406:HIS:CD2	2.94	0.50
1:1L:260:VAL:HG11	2:4X:407:TRP:CZ2	2.46	0.50
1:1M:260:VAL:CB	2:4Y:407:TRP:CZ2	2.94	0.50
2:1P:158:ARG:HD3	2:1P:162:PRO:HA	1.93	0.50
2:1U:222:PRO:HG2	1:2I:326:LYS:HB2	1.91	0.50
2:2H:26:ASP:O	2:2H:369:ARG:NH2	2.43	0.50
2:2H:404:PHE:CZ	1:3A:261:PRO:HD3	2.46	0.50
2:2O:72:PRO:HD2	1:3B:2:ARG:HG2	1.93	0.50
2:2P:158:ARG:HD3	2:2P:162:PRO:HA	1.93	0.50
2:2P:178:SER:OG	1:3C:351:PHE:N	2.44	0.50
2:2Q:222:PRO:O	1:3D:324:VAL:CG1	2.59	0.50
2:2S:404:PHE:CD1	1:3F:261:PRO:N	2.78	0.50
2:2U:44:LEU:HA	2:2U:49:ILE:HB	1.93	0.50
2:2V:222:PRO:O	1:3J:325:PRO:HD2	2.11	0.50
2:2V:275:LEU:H	2:2V:294:GLN:HE22	1.59	0.50
2:2W:11:GLN:HB3	5:2W:501:GDP:O1A	2.11	0.50
2:2W:210:TYR:CD2	1:3K:329:ASN:ND2	2.62	0.50
2:2Y:181:VAL:HG21	1:3M:314:ALA:HB1	1.94	0.50
2:3O:11:GLN:HB3	5:3O:501:GDP:O1A	2.11	0.50
2:3P:158:ARG:HD3	2:3P:162:PRO:HA	1.93	0.50
2:3U:44:LEU:HA	2:3U:49:ILE:HB	1.93	0.50
2:3W:11:GLN:HB3	5:3W:501:GDP:O1A	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3W:275:LEU:H	2:3W:294:GLN:HE22	1.60	0.50
1:4G:241:SER:OG	1:4G:250:VAL:O	2.25	0.50
2:4H:26:ASP:O	2:4H:369:ARG:NH2	2.43	0.50
2:4O:11:GLN:HB3	5:4O:501:GDP:O1A	2.11	0.50
2:4P:158:ARG:HD3	2:4P:162:PRO:HA	1.93	0.50
2:4W:275:LEU:H	2:4W:294:GLN:HE22	1.60	0.50
1:1B:346:TRP:CH2	2:4O:404:PHE:CE2	3.00	0.50
1:1C:248:LEU:HD22	2:4P:224:TYR:OH	2.11	0.50
1:1D:261:PRO:C	2:4Q:404:PHE:CA	2.79	0.50
1:1D:352:LYS:HA	2:4Q:179:ASP:C	2.31	0.50
1:1E:257:THR:HG21	2:4R:101:ASN:C	2.31	0.50
1:1E:352:LYS:CD	2:4R:101:ASN:ND2	2.72	0.50
1:1G:251:ASP:OD2	2:4T:98:GLY:CA	2.60	0.50
1:1G:261:PRO:CA	2:4T:404:PHE:H	2.24	0.50
1:1J:120:ASP:OD1	1:1J:123:ARG:NH2	2.45	0.50
1:1J:324:VAL:HG21	2:4V:221:THR:OG1	2.11	0.50
1:1L:262:TYR:OH	2:4X:403:ALA:HA	2.10	0.50
1:1L:332:ILE:CG2	2:4X:177:VAL:CG2	2.89	0.50
1:1M:2:ARG:HG3	2:4Y:72:PRO:HG3	1.92	0.50
2:1Q:158:ARG:HD3	2:1Q:162:PRO:HA	1.93	0.50
2:1S:221:THR:CA	1:2F:324:VAL:CG1	2.78	0.50
2:1S:222:PRO:O	1:2F:325:PRO:HD2	2.12	0.50
2:1T:217:LEU:HD11	2:1T:275:LEU:HD22	1.94	0.50
2:1V:275:LEU:H	2:1V:294:GLN:HE22	1.60	0.50
2:1X:275:LEU:H	2:1X:294:GLN:HE22	1.59	0.50
1:2J:120:ASP:OD1	1:2J:123:ARG:NH2	2.45	0.50
2:2H:11:GLN:HB3	5:2H:501:GDP:O1A	2.11	0.50
2:2H:72:PRO:HD2	1:3A:2:ARG:HG2	1.92	0.50
2:2S:406:HIS:CD2	1:3F:262:TYR:CA	2.94	0.50
2:2T:178:SER:HB2	1:3G:349:THR:HB	1.94	0.50
2:2T:217:LEU:HD11	2:2T:275:LEU:HD22	1.94	0.50
2:2T:406:HIS:CE1	1:3G:263:PRO:HA	2.45	0.50
2:2U:73:GLY:HA3	1:3I:2:ARG:CZ	2.41	0.50
2:2W:275:LEU:H	2:2W:294:GLN:HE22	1.60	0.50
2:2Z:217:LEU:HD11	2:2Z:275:LEU:HD22	1.94	0.50
1:3J:120:ASP:OD1	1:3J:123:ARG:NH2	2.45	0.50
1:3J:241:SER:OG	1:3J:250:VAL:O	2.25	0.50
2:3H:11:GLN:HB3	5:3H:501:GDP:O1A	2.11	0.50
2:3Q:158:ARG:HD3	2:3Q:162:PRO:HA	1.93	0.50
2:3T:217:LEU:HD11	2:3T:275:LEU:HD22	1.94	0.50
2:3V:11:GLN:HB3	5:3V:501:GDP:O1A	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3X:275:LEU:H	2:3X:294:GLN:HE22	1.59	0.50
2:3Z:217:LEU:HD11	2:3Z:275:LEU:HD22	1.94	0.50
1:4J:120:ASP:OD1	1:4J:123:ARG:NH2	2.45	0.50
1:4L:399:TYR:OH	1:4L:415:GLU:OE2	2.25	0.50
2:4H:11:GLN:HB3	5:4H:501:GDP:O1A	2.11	0.50
2:4Q:158:ARG:HD3	2:4Q:162:PRO:HA	1.93	0.50
2:4V:11:GLN:HB3	5:4V:501:GDP:O1A	2.11	0.50
2:4V:275:LEU:H	2:4V:294:GLN:HE22	1.60	0.50
1:1D:346:TRP:CZ3	2:4Q:403:ALA:HB3	2.46	0.50
1:1E:261:PRO:O	2:4R:404:PHE:CA	2.59	0.50
1:1E:262:TYR:CZ	2:4R:402:LYS:C	2.84	0.50
1:1F:120:ASP:OD1	1:1F:123:ARG:NH2	2.45	0.50
1:1J:241:SER:OG	1:1J:250:VAL:O	2.25	0.50
2:1H:275:LEU:H	2:1H:294:GLN:HE22	1.59	0.50
2:1H:401:ARG:HH22	1:2A:435:VAL:HA	1.76	0.50
2:1O:11:GLN:HB3	5:1O:501:GDP:O1A	2.11	0.50
2:1P:165:ILE:HA	2:1P:199:ASP:OD2	2.12	0.50
2:1R:406:HIS:NE2	1:2E:263:PRO:HD3	2.25	0.50
2:1U:44:LEU:HA	2:1U:49:ILE:HB	1.93	0.50
2:1V:11:GLN:HB3	5:1V:501:GDP:O1A	2.11	0.50
2:1Z:217:LEU:HD11	2:1Z:275:LEU:HD22	1.94	0.50
1:2F:120:ASP:OD1	1:2F:123:ARG:NH2	2.45	0.50
1:2G:241:SER:OG	1:2G:250:VAL:O	2.25	0.50
1:2J:241:SER:OG	1:2J:250:VAL:O	2.25	0.50
2:2P:165:ILE:HA	2:2P:199:ASP:OD2	2.12	0.50
2:2P:181:VAL:HG21	1:3C:314:ALA:HB1	1.93	0.50
2:2Q:158:ARG:HD3	2:2Q:162:PRO:HA	1.93	0.50
2:2R:72:PRO:HD2	1:3E:2:ARG:HG2	1.92	0.50
2:2R:404:PHE:CZ	1:3E:261:PRO:HB3	2.40	0.50
2:2S:406:HIS:CE1	1:3F:263:PRO:N	2.79	0.50
2:2V:11:GLN:HB3	5:2V:501:GDP:O1A	2.11	0.50
2:2X:275:LEU:H	2:2X:294:GLN:HE22	1.60	0.50
2:3P:165:ILE:HA	2:3P:199:ASP:OD2	2.12	0.50
2:3V:275:LEU:H	2:3V:294:GLN:HE22	1.60	0.50
1:4F:120:ASP:OD1	1:4F:123:ARG:NH2	2.45	0.50
1:4J:241:SER:OG	1:4J:250:VAL:O	2.25	0.50
2:4Q:44:LEU:HA	2:4Q:49:ILE:HB	1.93	0.50
2:4T:217:LEU:HD11	2:4T:275:LEU:HD22	1.94	0.50
2:4X:217:LEU:HD11	2:4X:275:LEU:HD22	1.94	0.50
2:4X:275:LEU:H	2:4X:294:GLN:HE22	1.60	0.50
2:4Z:217:LEU:HD11	2:4Z:275:LEU:HD22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1D:2:ARG:CD	2:4Q:72:PRO:CG	2.86	0.50
1:1E:172:TYR:N	1:1E:204:VAL:O	2.43	0.50
1:1J:350:GLY:HA2	2:4V:181:VAL:HG13	1.93	0.50
1:1L:258:ASN:ND2	2:4X:180:THR:HG23	2.27	0.50
1:1M:260:VAL:CG1	2:4Y:407:TRP:CZ2	2.94	0.50
2:1H:217:LEU:HD11	2:1H:275:LEU:HD22	1.94	0.50
2:1O:158:ARG:HD3	2:1O:162:PRO:HA	1.93	0.50
2:1V:44:LEU:HA	2:1V:49:ILE:HB	1.93	0.50
2:1V:217:LEU:HD11	2:1V:275:LEU:HD22	1.94	0.50
2:1X:217:LEU:HD11	2:1X:275:LEU:HD22	1.94	0.50
2:1Y:11:GLN:HB3	5:1Y:501:GDP:O1A	2.11	0.50
2:2O:165:ILE:HA	2:2O:199:ASP:OD2	2.12	0.50
2:2P:394:GLN:HA	1:3C:348:PRO:HG3	1.94	0.50
2:2P:403:ALA:HA	1:3C:262:TYR:CE1	2.47	0.50
2:2Q:44:LEU:HA	2:2Q:49:ILE:HB	1.93	0.50
2:2S:394:GLN:HG2	1:3F:348:PRO:HG2	1.79	0.50
2:2T:178:SER:OG	1:3G:350:GLY:N	2.45	0.50
2:2V:174:SER:HB2	2:2V:207:GLU:HB2	1.93	0.50
2:2V:217:LEU:HD11	2:2V:275:LEU:HD22	1.94	0.50
2:2W:72:PRO:HD2	1:3K:2:ARG:CD	2.41	0.50
2:2X:217:LEU:HD11	2:2X:275:LEU:HD22	1.94	0.50
2:2Y:11:GLN:HB3	5:2Y:501:GDP:O1A	2.11	0.50
2:2Y:407:TRP:HE1	1:3M:260:VAL:HB	1.76	0.50
2:2Z:174:SER:HB2	2:2Z:207:GLU:HB2	1.93	0.50
1:3F:120:ASP:OD1	1:3F:123:ARG:NH2	2.45	0.50
2:3O:165:ILE:HA	2:3O:199:ASP:OD2	2.12	0.50
2:3O:275:LEU:H	2:3O:294:GLN:HE22	1.60	0.50
2:3Q:44:LEU:HA	2:3Q:49:ILE:HB	1.93	0.50
2:3V:217:LEU:HD11	2:3V:275:LEU:HD22	1.94	0.50
2:3X:217:LEU:HD11	2:3X:275:LEU:HD22	1.94	0.50
2:3Y:11:GLN:HB3	5:3Y:501:GDP:O1A	2.11	0.50
2:4O:165:ILE:HA	2:4O:199:ASP:OD2	2.12	0.50
2:4O:275:LEU:H	2:4O:294:GLN:HE22	1.59	0.50
2:4V:217:LEU:HD11	2:4V:275:LEU:HD22	1.94	0.50
2:4Y:11:GLN:HB3	5:4Y:501:GDP:O1A	2.11	0.50
1:1B:2:ARG:NH2	2:4O:73:GLY:CA	2.74	0.50
1:1G:329:ASN:HB3	2:4T:210:TYR:CD2	2.47	0.50
1:1I:262:TYR:OH	2:4U:403:ALA:N	2.44	0.50
1:1J:263:PRO:CD	2:4V:406:HIS:CD2	2.93	0.50
1:1N:261:PRO:CB	2:4Z:404:PHE:CZ	2.92	0.50
1:1N:262:TYR:HA	2:4Z:406:HIS:HD2	1.63	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1O:165:ILE:HA	2:1O:199:ASP:OD2	2.12	0.50
2:1O:275:LEU:H	2:1O:294:GLN:HE22	1.60	0.50
2:1S:100:GLY:HA3	1:2F:253:THR:CG2	2.41	0.50
2:1S:217:LEU:HD11	2:1S:275:LEU:HD22	1.94	0.50
2:1U:174:SER:HB2	2:1U:207:GLU:HB2	1.93	0.50
2:1U:275:LEU:H	2:1U:294:GLN:HE22	1.60	0.50
2:1V:174:SER:HB2	2:1V:207:GLU:HB2	1.93	0.50
2:1X:44:LEU:HA	2:1X:49:ILE:HB	1.93	0.50
2:1Y:165:ILE:HA	2:1Y:199:ASP:OD2	2.12	0.50
2:1Z:404:PHE:HE1	1:2N:260:VAL:H	1.57	0.50
1:2C:120:ASP:OD1	1:2C:123:ARG:NH2	2.45	0.50
2:2H:275:LEU:H	2:2H:294:GLN:HE22	1.60	0.50
2:2H:404:PHE:CD1	1:3A:260:VAL:C	2.85	0.50
2:2O:158:ARG:HD3	2:2O:162:PRO:HA	1.93	0.50
2:2O:275:LEU:H	2:2O:294:GLN:HE22	1.60	0.50
2:2P:44:LEU:HA	2:2P:49:ILE:HB	1.93	0.50
2:2S:222:PRO:O	1:3F:324:VAL:CG1	2.60	0.50
2:2U:221:THR:HA	1:3I:324:VAL:HG11	1.93	0.50
2:2X:44:LEU:HA	2:2X:49:ILE:HB	1.93	0.50
2:2X:406:HIS:ND1	1:3L:263:PRO:HB3	2.26	0.50
2:2Y:165:ILE:HA	2:2Y:199:ASP:OD2	2.12	0.50
1:3K:120:ASP:OD1	1:3K:123:ARG:NH2	2.45	0.50
2:3H:217:LEU:HD11	2:3H:275:LEU:HD22	1.94	0.50
2:3H:275:LEU:H	2:3H:294:GLN:HE22	1.60	0.50
2:3P:44:LEU:HA	2:3P:49:ILE:HB	1.93	0.50
2:3S:217:LEU:HD11	2:3S:275:LEU:HD22	1.94	0.50
2:3T:165:ILE:HA	2:3T:199:ASP:OD2	2.12	0.50
2:3U:174:SER:HB2	2:3U:207:GLU:HB2	1.93	0.50
2:3U:275:LEU:H	2:3U:294:GLN:HE22	1.60	0.50
2:3Y:165:ILE:HA	2:3Y:199:ASP:OD2	2.12	0.50
1:4C:120:ASP:OD1	1:4C:123:ARG:NH2	2.45	0.50
1:4K:120:ASP:OD1	1:4K:123:ARG:NH2	2.45	0.50
2:4H:217:LEU:HD11	2:4H:275:LEU:HD22	1.94	0.50
2:4O:158:ARG:HD3	2:4O:162:PRO:HA	1.93	0.50
2:4P:165:ILE:HA	2:4P:199:ASP:OD2	2.12	0.50
2:4T:11:GLN:HB3	5:4T:501:GDP:O1A	2.11	0.50
2:4U:174:SER:HB2	2:4U:207:GLU:HB2	1.93	0.50
2:4Y:165:ILE:HA	2:4Y:199:ASP:OD2	2.12	0.50
2:4Y:275:LEU:H	2:4Y:294:GLN:HE22	1.60	0.50
2:4Z:275:LEU:H	2:4Z:294:GLN:HE22	1.60	0.50
1:1B:120:ASP:OD1	1:1B:123:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:120:ASP:OD1	1:1C:123:ARG:NH2	2.45	0.50
1:1C:248:LEU:HD11	5:4P:501:GDP:H5"	1.93	0.50
1:1J:350:GLY:C	2:4V:181:VAL:HG22	2.31	0.50
1:1J:353:VAL:CB	2:4V:179:ASP:OD1	2.59	0.50
1:1K:120:ASP:OD1	1:1K:123:ARG:NH2	2.45	0.50
1:1M:439:SER:OG	2:4Y:401:ARG:CG	2.60	0.50
2:1P:44:LEU:HA	2:1P:49:ILE:HB	1.93	0.50
2:1P:181:VAL:HG23	1:2C:258:ASN:HB3	1.94	0.50
2:1P:275:LEU:H	2:1P:294:GLN:HE22	1.60	0.50
2:1Q:44:LEU:HA	2:1Q:49:ILE:HB	1.93	0.50
2:1Q:217:LEU:HD11	2:1Q:275:LEU:HD22	1.94	0.50
2:1T:165:ILE:HA	2:1T:199:ASP:OD2	2.12	0.50
2:1U:165:ILE:HA	2:1U:199:ASP:OD2	2.12	0.50
2:1V:165:ILE:HA	2:1V:199:ASP:OD2	2.12	0.50
2:1V:214:PHE:CG	1:2J:326:LYS:NZ	2.76	0.50
2:1W:217:LEU:HD11	2:1W:275:LEU:HD22	1.94	0.50
2:1Y:217:LEU:HD11	2:1Y:275:LEU:HD22	1.94	0.50
2:1Z:174:SER:HB2	2:1Z:207:GLU:HB2	1.93	0.50
2:1Z:275:LEU:H	2:1Z:294:GLN:HE22	1.59	0.50
1:2K:120:ASP:OD1	1:2K:123:ARG:NH2	2.45	0.50
2:2R:217:LEU:HD11	2:2R:275:LEU:HD22	1.94	0.50
2:2S:217:LEU:HD11	2:2S:275:LEU:HD22	1.94	0.50
2:2U:165:ILE:HA	2:2U:199:ASP:OD2	2.12	0.50
2:2U:174:SER:HB2	2:2U:207:GLU:HB2	1.93	0.50
2:2V:100:GLY:HA2	1:3J:253:THR:C	2.32	0.50
2:2Y:217:LEU:HD11	2:2Y:275:LEU:HD22	1.94	0.50
1:3C:120:ASP:OD1	1:3C:123:ARG:NH2	2.45	0.50
2:3O:158:ARG:HD3	2:3O:162:PRO:HA	1.93	0.50
2:3P:275:LEU:H	2:3P:294:GLN:HE22	1.59	0.50
2:3Q:217:LEU:HD11	2:3Q:275:LEU:HD22	1.94	0.50
2:3U:165:ILE:HA	2:3U:199:ASP:OD2	2.12	0.50
2:3V:44:LEU:HA	2:3V:49:ILE:HB	1.93	0.50
2:3V:174:SER:HB2	2:3V:207:GLU:HB2	1.93	0.50
2:3W:217:LEU:HD11	2:3W:275:LEU:HD22	1.94	0.50
2:3X:44:LEU:HA	2:3X:49:ILE:HB	1.93	0.50
2:3Y:217:LEU:HD11	2:3Y:275:LEU:HD22	1.94	0.50
2:3Y:275:LEU:H	2:3Y:294:GLN:HE22	1.59	0.50
2:3Z:174:SER:HB2	2:3Z:207:GLU:HB2	1.93	0.50
2:4Q:217:LEU:HD11	2:4Q:275:LEU:HD22	1.94	0.50
2:4R:217:LEU:HD11	2:4R:275:LEU:HD22	1.94	0.50
2:4S:217:LEU:HD11	2:4S:275:LEU:HD22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4T:165:ILE:HA	2:4T:199:ASP:OD2	2.12	0.50
2:4U:165:ILE:HA	2:4U:199:ASP:OD2	2.12	0.50
2:4V:174:SER:HB2	2:4V:207:GLU:HB2	1.93	0.50
2:4W:165:ILE:HA	2:4W:199:ASP:OD2	2.12	0.50
2:4X:44:LEU:HA	2:4X:49:ILE:HB	1.93	0.50
2:4Z:174:SER:HB2	2:4Z:207:GLU:HB2	1.93	0.50
1:1A:120:ASP:OD1	1:1A:123:ARG:NH2	2.45	0.50
1:1A:257:THR:CG2	2:4H:101:ASN:O	2.58	0.50
1:1A:346:TRP:HH2	2:4H:404:PHE:HE2	1.55	0.50
1:1E:120:ASP:OD1	1:1E:123:ARG:NH2	2.45	0.50
1:1E:332:ILE:HG21	2:4R:177:VAL:HG22	1.92	0.50
1:1F:439:SER:CB	2:4S:400:ARG:CD	2.89	0.50
1:1I:346:TRP:CZ2	2:4U:403:ALA:HB1	2.47	0.50
1:1K:348:PRO:HG3	2:4W:394:GLN:CA	2.42	0.50
1:1M:346:TRP:CE3	2:4Y:403:ALA:HB3	2.45	0.50
2:1H:174:SER:HB2	2:1H:207:GLU:HB2	1.93	0.50
2:1Q:165:ILE:HA	2:1Q:199:ASP:OD2	2.12	0.50
2:1R:217:LEU:HD11	2:1R:275:LEU:HD22	1.94	0.50
2:1R:285:ALA:HB2	2:1S:56:ALA:HA	1.94	0.50
2:1T:174:SER:HB2	2:1T:207:GLU:HB2	1.93	0.50
2:1W:165:ILE:HA	2:1W:199:ASP:OD2	2.12	0.50
2:1Y:275:LEU:H	2:1Y:294:GLN:HE22	1.60	0.50
1:2B:120:ASP:OD1	1:2B:123:ARG:NH2	2.45	0.50
2:2H:158:ARG:HD3	2:2H:162:PRO:HA	1.93	0.50
2:2H:217:LEU:HD11	2:2H:275:LEU:HD22	1.94	0.50
2:2Q:217:LEU:HD11	2:2Q:275:LEU:HD22	1.94	0.50
2:2Q:406:HIS:CE1	1:3D:263:PRO:CA	2.95	0.50
2:2R:96:GLN:OE1	1:3E:1:MET:O	2.29	0.50
2:2R:285:ALA:HB2	2:2S:56:ALA:HA	1.94	0.50
2:2S:101:ASN:C	1:3F:257:THR:HG21	2.32	0.50
2:2T:165:ILE:HA	2:2T:199:ASP:OD2	2.12	0.50
2:2U:275:LEU:H	2:2U:294:GLN:HE22	1.60	0.50
2:2V:44:LEU:HA	2:2V:49:ILE:HB	1.93	0.50
2:2V:165:ILE:HA	2:2V:199:ASP:OD2	2.12	0.50
2:2W:77:SER:CB	1:3K:245:ASP:OD1	2.57	0.50
2:2W:165:ILE:HA	2:2W:199:ASP:OD2	2.12	0.50
2:2W:217:LEU:HD11	2:2W:275:LEU:HD22	1.94	0.50
2:2Y:275:LEU:H	2:2Y:294:GLN:HE22	1.60	0.50
1:3B:120:ASP:OD1	1:3B:123:ARG:NH2	2.45	0.50
2:3H:158:ARG:HD3	2:3H:162:PRO:HA	1.93	0.50
2:3H:174:SER:HB2	2:3H:207:GLU:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3R:217:LEU:HD11	2:3R:275:LEU:HD22	1.94	0.50
2:3T:11:GLN:HB3	5:3T:501:GDP:O1A	2.11	0.50
2:3U:217:LEU:HD11	2:3U:275:LEU:HD22	1.94	0.50
2:3V:165:ILE:HA	2:3V:199:ASP:OD2	2.12	0.50
2:3W:165:ILE:HA	2:3W:199:ASP:OD2	2.12	0.50
2:3X:165:ILE:HA	2:3X:199:ASP:OD2	2.12	0.50
2:3Z:275:LEU:H	2:3Z:294:GLN:HE22	1.60	0.50
1:4B:120:ASP:OD1	1:4B:123:ARG:NH2	2.45	0.50
2:4H:158:ARG:HD3	2:4H:162:PRO:HA	1.93	0.50
2:4H:275:LEU:H	2:4H:294:GLN:HE22	1.60	0.50
2:4P:44:LEU:HA	2:4P:49:ILE:HB	1.93	0.50
2:4U:275:LEU:H	2:4U:294:GLN:HE22	1.60	0.50
2:4W:217:LEU:HD11	2:4W:275:LEU:HD22	1.94	0.50
2:4X:165:ILE:HA	2:4X:199:ASP:OD2	2.12	0.50
2:4Y:174:SER:HB2	2:4Y:207:GLU:HB2	1.93	0.50
2:4Y:217:LEU:HD11	2:4Y:275:LEU:HD22	1.94	0.50
1:1D:346:TRP:HA	2:4Q:397:ALA:HB1	1.94	0.50
1:1E:245:ASP:CG	2:4R:77:SER:CB	2.71	0.50
1:1F:260:VAL:CG1	2:4S:406:HIS:HE1	2.17	0.50
1:1G:120:ASP:OD1	1:1G:123:ARG:NH2	2.45	0.50
1:1I:120:ASP:OD1	1:1I:123:ARG:NH2	2.45	0.50
1:1J:257:THR:HG21	2:4V:100:GLY:O	2.12	0.50
2:1H:44:LEU:HA	2:1H:49:ILE:HB	1.93	0.50
2:1P:217:LEU:HD11	2:1P:275:LEU:HD22	1.94	0.50
2:1Q:10:GLY:O	2:1Q:14:ASN:ND2	2.45	0.50
2:1S:10:GLY:O	2:1S:14:ASN:ND2	2.45	0.50
2:1S:158:ARG:HD3	2:1S:162:PRO:HA	1.93	0.50
2:1S:285:ALA:HB2	2:1T:56:ALA:HA	1.94	0.50
2:1T:11:GLN:HB3	5:1T:501:GDP:O1A	2.11	0.50
2:1U:217:LEU:HD11	2:1U:275:LEU:HD22	1.94	0.50
2:1W:174:SER:HB2	2:1W:207:GLU:HB2	1.93	0.50
1:2A:120:ASP:OD1	1:2A:123:ARG:NH2	2.45	0.50
1:2E:120:ASP:OD1	1:2E:123:ARG:NH2	2.45	0.50
1:2I:120:ASP:OD1	1:2I:123:ARG:NH2	2.45	0.50
2:2H:44:LEU:HA	2:2H:49:ILE:HB	1.93	0.50
2:2H:174:SER:HB2	2:2H:207:GLU:HB2	1.93	0.50
2:2Q:10:GLY:O	2:2Q:14:ASN:ND2	2.45	0.50
2:2Q:165:ILE:HA	2:2Q:199:ASP:OD2	2.12	0.50
2:2S:158:ARG:HD3	2:2S:162:PRO:HA	1.93	0.50
2:2S:285:ALA:HB2	2:2T:56:ALA:HA	1.94	0.50
2:2T:11:GLN:HB3	5:2T:501:GDP:O1A	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2T:174:SER:HB2	2:2T:207:GLU:HB2	1.93	0.50
2:2T:178:SER:CB	1:3G:349:THR:HA	2.42	0.50
2:2T:210:TYR:CD2	1:3G:329:ASN:ND2	2.54	0.50
2:2U:217:LEU:HD11	2:2U:275:LEU:HD22	1.94	0.50
2:2V:180:THR:N	1:3J:351:PHE:O	2.44	0.50
2:2W:174:SER:HB2	2:2W:207:GLU:HB2	1.93	0.50
2:2X:165:ILE:HA	2:2X:199:ASP:OD2	2.12	0.50
2:2Y:174:SER:HB2	2:2Y:207:GLU:HB2	1.93	0.50
2:2Z:11:GLN:HB3	5:2Z:501:GDP:O1A	2.11	0.50
2:2Z:158:ARG:HD3	2:2Z:162:PRO:HA	1.93	0.50
2:2Z:275:LEU:H	2:2Z:294:GLN:HE22	1.60	0.50
2:2Z:404:PHE:CA	1:3N:261:PRO:HA	2.42	0.50
1:3A:120:ASP:OD1	1:3A:123:ARG:NH2	2.45	0.50
1:3G:120:ASP:OD1	1:3G:123:ARG:NH2	2.45	0.50
1:3I:120:ASP:OD1	1:3I:123:ARG:NH2	2.45	0.50
2:3P:217:LEU:HD11	2:3P:275:LEU:HD22	1.94	0.50
2:3Q:10:GLY:O	2:3Q:14:ASN:ND2	2.45	0.50
2:3Q:165:ILE:HA	2:3Q:199:ASP:OD2	2.12	0.50
2:3S:285:ALA:HB2	2:3T:56:ALA:HA	1.94	0.50
2:3W:174:SER:HB2	2:3W:207:GLU:HB2	1.93	0.50
2:3Y:174:SER:HB2	2:3Y:207:GLU:HB2	1.93	0.50
1:4A:120:ASP:OD1	1:4A:123:ARG:NH2	2.45	0.50
1:4I:120:ASP:OD1	1:4I:123:ARG:NH2	2.45	0.50
1:4N:120:ASP:OD1	1:4N:123:ARG:NH2	2.45	0.50
2:4H:44:LEU:HA	2:4H:49:ILE:HB	1.93	0.50
2:4H:174:SER:HB2	2:4H:207:GLU:HB2	1.93	0.50
2:4P:275:LEU:H	2:4P:294:GLN:HE22	1.60	0.50
2:4R:10:GLY:O	2:4R:14:ASN:ND2	2.45	0.50
2:4R:285:ALA:HB2	2:4S:56:ALA:HA	1.94	0.50
2:4U:217:LEU:HD11	2:4U:275:LEU:HD22	1.94	0.50
2:4V:44:LEU:HA	2:4V:49:ILE:HB	1.93	0.50
2:4V:165:ILE:HA	2:4V:199:ASP:OD2	2.12	0.50
2:4W:174:SER:HB2	2:4W:207:GLU:HB2	1.93	0.50
2:4Z:11:GLN:HB3	5:4Z:501:GDP:O1A	2.11	0.50
2:4Z:158:ARG:HD3	2:4Z:162:PRO:HA	1.93	0.50
2:4Z:165:ILE:HA	2:4Z:199:ASP:OD2	2.12	0.50
1:1A:329:ASN:CB	2:4H:210:TYR:CE2	2.92	0.50
1:1C:262:TYR:CE1	2:4P:402:LYS:C	2.85	0.50
1:1G:353:VAL:HG23	2:4T:179:ASP:OD1	2.09	0.50
1:1N:2:ARG:CD	2:4Z:72:PRO:HG2	2.42	0.50
2:1H:158:ARG:HD3	2:1H:162:PRO:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1P:10:GLY:O	2:1P:14:ASN:ND2	2.45	0.50
2:1R:44:LEU:HA	2:1R:49:ILE:HB	1.93	0.50
2:1R:158:ARG:HD3	2:1R:162:PRO:HA	1.93	0.50
2:1R:165:ILE:HA	2:1R:199:ASP:OD2	2.12	0.50
2:1V:178:SER:HB2	1:2J:349:THR:HB	1.90	0.50
2:1X:165:ILE:HA	2:1X:199:ASP:OD2	2.12	0.50
2:1X:285:ALA:HB2	2:1Y:56:ALA:HA	1.94	0.50
2:1Y:174:SER:HB2	2:1Y:207:GLU:HB2	1.93	0.50
2:1Z:11:GLN:HB3	5:1Z:501:GDP:O1A	2.11	0.50
1:2D:280:LYS:NZ	1:2E:90:GLU:OE2	2.38	0.50
1:2N:120:ASP:OD1	1:2N:123:ARG:NH2	2.45	0.50
2:2O:214:PHE:CG	1:3B:326:LYS:HE2	2.47	0.50
2:2O:404:PHE:CZ	1:3B:261:PRO:HD3	2.47	0.50
2:2P:10:GLY:O	2:2P:14:ASN:ND2	2.45	0.50
2:2P:182:VAL:HG21	1:3C:257:THR:HG22	1.94	0.50
2:2P:217:LEU:HD11	2:2P:275:LEU:HD22	1.94	0.50
2:2P:275:LEU:H	2:2P:294:GLN:HE22	1.60	0.50
2:2Q:404:PHE:CZ	1:3D:261:PRO:HD3	2.47	0.50
2:2R:10:GLY:O	2:2R:14:ASN:ND2	2.45	0.50
2:2S:10:GLY:O	2:2S:14:ASN:ND2	2.45	0.50
2:2U:72:PRO:CD	1:3I:2:ARG:HD3	2.37	0.50
2:2V:397:ALA:O	1:3J:346:TRP:CB	2.60	0.50
2:2W:158:ARG:HD3	2:2W:162:PRO:HA	1.93	0.50
2:2W:404:PHE:HA	1:3K:261:PRO:O	2.10	0.50
2:2X:285:ALA:HB2	2:2Y:56:ALA:HA	1.94	0.50
2:2X:406:HIS:CE1	1:3L:263:PRO:CB	2.95	0.50
1:3D:280:LYS:NZ	1:3E:90:GLU:OE2	2.38	0.50
1:3E:120:ASP:OD1	1:3E:123:ARG:NH2	2.45	0.50
1:3K:283:HIS:HB3	1:3L:88:HIS:CG	2.47	0.50
1:3N:120:ASP:OD1	1:3N:123:ARG:NH2	2.45	0.50
2:3H:44:LEU:HA	2:3H:49:ILE:HB	1.93	0.50
2:3R:10:GLY:O	2:3R:14:ASN:ND2	2.45	0.50
2:3R:285:ALA:HB2	2:3S:56:ALA:HA	1.94	0.50
2:3S:10:GLY:O	2:3S:14:ASN:ND2	2.45	0.50
2:3S:158:ARG:HD3	2:3S:162:PRO:HA	1.93	0.50
2:3T:174:SER:HB2	2:3T:207:GLU:HB2	1.93	0.50
2:3X:285:ALA:HB2	2:3Y:56:ALA:HA	1.94	0.50
2:3Z:11:GLN:HB3	5:3Z:501:GDP:O1A	2.11	0.50
2:3Z:158:ARG:HD3	2:3Z:162:PRO:HA	1.93	0.50
1:4E:120:ASP:OD1	1:4E:123:ARG:NH2	2.45	0.50
1:4G:120:ASP:OD1	1:4G:123:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4K:283:HIS:HB3	1:4L:88:HIS:CG	2.47	0.50
2:4Q:10:GLY:O	2:4Q:14:ASN:ND2	2.45	0.50
2:4Q:165:ILE:HA	2:4Q:199:ASP:OD2	2.12	0.50
2:4R:158:ARG:HD3	2:4R:162:PRO:HA	1.93	0.50
2:4R:165:ILE:HA	2:4R:199:ASP:OD2	2.12	0.50
2:4S:10:GLY:O	2:4S:14:ASN:ND2	2.45	0.50
2:4S:285:ALA:HB2	2:4T:56:ALA:HA	1.94	0.50
2:4X:285:ALA:HB2	2:4Y:56:ALA:HA	1.94	0.50
1:1A:348:PRO:CG	2:4H:394:GLN:HB3	2.36	0.49
1:1B:325:PRO:HD2	2:4O:223:THR:CA	2.39	0.49
1:1C:261:PRO:HB2	2:4P:404:PHE:N	2.27	0.49
1:1D:261:PRO:CD	2:4Q:404:PHE:CE1	2.93	0.49
1:1D:314:ALA:HB1	2:4Q:181:VAL:CG2	2.38	0.49
1:1J:346:TRP:CH2	2:4V:404:PHE:CD2	2.96	0.49
1:1J:346:TRP:CA	2:4V:397:ALA:O	2.57	0.49
1:1K:283:HIS:HB3	1:1L:88:HIS:CG	2.47	0.49
1:1L:311:LYS:H	1:1L:382:THR:HB	1.77	0.49
1:1M:120:ASP:OD1	1:1M:123:ARG:NH2	2.45	0.49
1:1N:120:ASP:OD1	1:1N:123:ARG:NH2	2.45	0.49
1:1N:262:TYR:N	2:4Z:406:HIS:NE2	2.60	0.49
1:1N:350:GLY:N	2:4Z:178:SER:OG	2.45	0.49
2:1O:174:SER:HB2	2:1O:207:GLU:HB2	1.93	0.49
2:1O:217:LEU:HD11	2:1O:275:LEU:HD22	1.94	0.49
2:1Q:275:LEU:H	2:1Q:294:GLN:HE22	1.60	0.49
2:1R:10:GLY:O	2:1R:14:ASN:ND2	2.45	0.49
2:1S:178:SER:HB3	1:2F:349:THR:CG2	2.42	0.49
2:1T:53:TYR:O	2:1T:64:ARG:NH2	2.45	0.49
2:1T:285:ALA:HB2	2:1U:56:ALA:HA	1.94	0.49
2:1X:11:GLN:HB3	5:1X:501:GDP:O1A	2.11	0.49
2:1Y:100:GLY:O	1:2M:253:THR:HG22	2.12	0.49
2:1Z:158:ARG:HD3	2:1Z:162:PRO:HA	1.93	0.49
2:1Z:181:VAL:HB	1:2N:258:ASN:HD22	1.77	0.49
1:2C:311:LYS:H	1:2C:382:THR:HB	1.77	0.49
1:2D:172:TYR:N	1:2D:204:VAL:O	2.43	0.49
1:2G:120:ASP:OD1	1:2G:123:ARG:NH2	2.45	0.49
1:2K:283:HIS:HB3	1:2L:88:HIS:CG	2.47	0.49
1:2L:283:HIS:HB3	1:2M:88:HIS:CG	2.47	0.49
1:2L:311:LYS:H	1:2L:382:THR:HB	1.77	0.49
1:2M:120:ASP:OD1	1:2M:123:ARG:NH2	2.45	0.49
2:2O:44:LEU:HA	2:2O:49:ILE:HB	1.93	0.49
2:2P:222:PRO:O	1:3C:324:VAL:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Q:275:LEU:H	2:2Q:294:GLN:HE22	1.60	0.49
2:2R:44:LEU:HA	2:2R:49:ILE:HB	1.93	0.49
2:2R:165:ILE:HA	2:2R:199:ASP:OD2	2.12	0.49
2:2T:285:ALA:HB2	2:2U:56:ALA:HA	1.94	0.49
2:2U:214:PHE:CG	1:3I:326:LYS:HE3	2.46	0.49
2:2W:285:ALA:HB2	2:2X:56:ALA:HA	1.94	0.49
2:2X:178:SER:OG	1:3L:351:PHE:N	2.44	0.49
2:2Y:71:GLU:HB2	1:3M:2:ARG:HD3	1.93	0.49
1:3L:311:LYS:H	1:3L:382:THR:HB	1.77	0.49
1:3M:120:ASP:OD1	1:3M:123:ARG:NH2	2.45	0.49
2:3O:217:LEU:HD11	2:3O:275:LEU:HD22	1.94	0.49
2:3P:10:GLY:O	2:3P:14:ASN:ND2	2.45	0.49
2:3Q:275:LEU:H	2:3Q:294:GLN:HE22	1.60	0.49
2:3R:44:LEU:HA	2:3R:49:ILE:HB	1.93	0.49
2:3R:158:ARG:HD3	2:3R:162:PRO:HA	1.93	0.49
2:3R:165:ILE:HA	2:3R:199:ASP:OD2	2.12	0.49
2:3T:53:TYR:O	2:3T:64:ARG:NH2	2.45	0.49
2:3T:285:ALA:HB2	2:3U:56:ALA:HA	1.94	0.49
2:3W:285:ALA:HB2	2:3X:56:ALA:HA	1.94	0.49
2:3X:11:GLN:HB3	5:3X:501:GDP:O1A	2.11	0.49
2:3Z:165:ILE:HA	2:3Z:199:ASP:OD2	2.12	0.49
1:4D:120:ASP:OD1	1:4D:123:ARG:NH2	2.45	0.49
1:4D:172:TYR:N	1:4D:204:VAL:O	2.43	0.49
1:4J:283:HIS:HB3	1:4K:88:HIS:CG	2.47	0.49
1:4L:311:LYS:H	1:4L:382:THR:HB	1.77	0.49
2:4O:44:LEU:HA	2:4O:49:ILE:HB	1.93	0.49
2:4P:10:GLY:O	2:4P:14:ASN:ND2	2.45	0.49
2:4P:217:LEU:HD11	2:4P:275:LEU:HD22	1.94	0.49
2:4Q:275:LEU:H	2:4Q:294:GLN:HE22	1.60	0.49
2:4S:158:ARG:HD3	2:4S:162:PRO:HA	1.93	0.49
2:4T:174:SER:HB2	2:4T:207:GLU:HB2	1.93	0.49
2:4U:31:ASP:OD1	2:4U:35:SER:N	2.41	0.49
2:4W:158:ARG:HD3	2:4W:162:PRO:HA	1.93	0.49
2:4W:285:ALA:HB2	2:4X:56:ALA:HA	1.94	0.49
1:1A:311:LYS:H	1:1A:382:THR:HB	1.77	0.49
1:1C:253:THR:HG22	2:4P:100:GLY:CA	2.27	0.49
1:1C:329:ASN:HB3	2:4P:210:TYR:CD2	2.47	0.49
1:1D:172:TYR:N	1:1D:204:VAL:O	2.43	0.49
1:1D:262:TYR:CZ	2:4Q:402:LYS:C	2.84	0.49
1:1D:314:ALA:HB2	2:4Q:404:PHE:CZ	2.47	0.49
1:1E:249:ASN:CA	2:4R:11:GLN:OE1	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1K:332:ILE:CG2	2:4W:177:VAL:CG2	2.90	0.49
1:1L:3:GLU:HA	1:1L:51:THR:HA	1.95	0.49
1:1L:283:HIS:HB3	1:1M:88:HIS:CG	2.47	0.49
1:1N:326:LYS:CB	2:4Z:222:PRO:CD	2.90	0.49
2:1H:10:GLY:O	2:1H:14:ASN:ND2	2.45	0.49
2:1H:221:THR:HG1	1:2A:324:VAL:HG21	1.76	0.49
2:1O:44:LEU:HA	2:1O:49:ILE:HB	1.93	0.49
2:1T:275:LEU:H	2:1T:294:GLN:HE22	1.60	0.49
2:1U:69:ASP:OD2	2:1U:74:THR:OG1	2.22	0.49
2:1V:394:GLN:HG2	1:2J:348:PRO:HG3	1.94	0.49
2:1W:158:ARG:HD3	2:1W:162:PRO:HA	1.93	0.49
2:1W:403:ALA:HB2	1:2K:262:TYR:CE2	2.44	0.49
2:1Z:165:ILE:HA	2:1Z:199:ASP:OD2	2.12	0.49
1:2A:311:LYS:H	1:2A:382:THR:HB	1.77	0.49
1:2D:120:ASP:OD1	1:2D:123:ARG:NH2	2.45	0.49
1:2F:311:LYS:H	1:2F:382:THR:HB	1.77	0.49
1:2G:283:HIS:HB3	1:2I:88:HIS:CG	2.47	0.49
1:2J:283:HIS:HB3	1:2K:88:HIS:CG	2.47	0.49
2:2H:10:GLY:O	2:2H:14:ASN:ND2	2.45	0.49
2:2O:217:LEU:HD11	2:2O:275:LEU:HD22	1.94	0.49
2:2Q:96:GLN:OE1	1:3D:1:MET:O	2.29	0.49
2:2R:158:ARG:HD3	2:2R:162:PRO:HA	1.93	0.49
2:2T:53:TYR:O	2:2T:64:ARG:NH2	2.46	0.49
2:2T:275:LEU:H	2:2T:294:GLN:HE22	1.59	0.49
2:2X:11:GLN:HB3	5:2X:501:GDP:O1A	2.11	0.49
2:2X:11:GLN:CD	1:3L:249:ASN:H	2.14	0.49
2:2Z:165:ILE:HA	2:2Z:199:ASP:OD2	2.12	0.49
2:2Z:404:PHE:CD1	1:3N:260:VAL:O	2.65	0.49
1:3C:311:LYS:H	1:3C:382:THR:HB	1.77	0.49
1:3D:120:ASP:OD1	1:3D:123:ARG:NH2	2.45	0.49
1:3D:172:TYR:N	1:3D:204:VAL:O	2.43	0.49
1:3F:311:LYS:H	1:3F:382:THR:HB	1.77	0.49
1:3J:283:HIS:HB3	1:3K:88:HIS:CG	2.47	0.49
2:3H:10:GLY:O	2:3H:14:ASN:ND2	2.45	0.49
2:3O:44:LEU:HA	2:3O:49:ILE:HB	1.93	0.49
2:3O:174:SER:HB2	2:3O:207:GLU:HB2	1.93	0.49
2:3U:53:TYR:O	2:3U:64:ARG:NH2	2.45	0.49
2:3W:158:ARG:HD3	2:3W:162:PRO:HA	1.93	0.49
1:4F:283:HIS:HB3	1:4G:88:HIS:CG	2.47	0.49
1:4G:283:HIS:HB3	1:4I:88:HIS:CG	2.47	0.49
1:4L:120:ASP:OD1	1:4L:123:ARG:NH2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4L:283:HIS:HB3	1:4M:88:HIS:CG	2.47	0.49
1:4M:120:ASP:OD1	1:4M:123:ARG:NH2	2.45	0.49
2:4H:10:GLY:O	2:4H:14:ASN:ND2	2.45	0.49
2:4T:10:GLY:O	2:4T:14:ASN:ND2	2.45	0.49
2:4T:53:TYR:O	2:4T:64:ARG:NH2	2.45	0.49
2:4T:285:ALA:HB2	2:4U:56:ALA:HA	1.94	0.49
2:4X:11:GLN:HB3	5:4X:501:GDP:O1A	2.11	0.49
1:1B:348:PRO:HB2	2:4O:394:GLN:CG	2.42	0.49
1:1D:351:PHE:HB2	2:4Q:178:SER:OG	2.12	0.49
1:1E:325:PRO:CG	2:4R:224:TYR:CD1	2.95	0.49
1:1F:247:ALA:HB1	2:4S:224:TYR:HD2	1.77	0.49
1:1F:311:LYS:H	1:1F:382:THR:HB	1.77	0.49
1:1G:254:GLU:HA	2:4T:100:GLY:O	2.11	0.49
1:1G:262:TYR:OH	2:4T:402:LYS:C	2.51	0.49
1:1G:283:HIS:HB3	1:1I:88:HIS:CG	2.47	0.49
1:1I:349:THR:OG1	2:4U:184:PRO:HD3	1.98	0.49
1:1J:283:HIS:HB3	1:1K:88:HIS:CG	2.47	0.49
1:1J:349:THR:CG2	2:4V:184:PRO:CG	2.90	0.49
1:1M:261:PRO:HB3	2:4Y:404:PHE:CE1	2.47	0.49
1:1M:326:LYS:HD2	2:4Y:222:PRO:HD2	1.93	0.49
2:1Q:181:VAL:N	1:2D:258:ASN:HD22	2.01	0.49
2:1S:53:TYR:O	2:1S:64:ARG:NH2	2.45	0.49
2:1S:224:TYR:HD2	1:2F:247:ALA:O	1.94	0.49
2:1T:10:GLY:O	2:1T:14:ASN:ND2	2.45	0.49
2:1U:53:TYR:O	2:1U:64:ARG:NH2	2.45	0.49
2:1W:285:ALA:HB2	2:1X:56:ALA:HA	1.94	0.49
2:1X:174:SER:HB2	2:1X:207:GLU:HB2	1.93	0.49
2:1Z:44:LEU:HA	2:1Z:49:ILE:HB	1.93	0.49
1:2F:283:HIS:HB3	1:2G:88:HIS:CG	2.47	0.49
1:2K:3:GLU:HA	1:2K:51:THR:HA	1.95	0.49
1:2L:120:ASP:OD1	1:2L:123:ARG:NH2	2.45	0.49
2:2O:174:SER:HB2	2:2O:207:GLU:HB2	1.93	0.49
2:2Q:181:VAL:HG11	1:3D:314:ALA:HB2	1.94	0.49
2:2Q:285:ALA:HB2	2:2R:56:ALA:HA	1.94	0.49
2:2R:275:LEU:H	2:2R:294:GLN:HE22	1.60	0.49
2:2R:406:HIS:CE1	1:3E:263:PRO:HA	2.48	0.49
2:2T:404:PHE:CE1	1:3G:260:VAL:C	2.85	0.49
2:2U:31:ASP:OD1	2:2U:35:SER:N	2.41	0.49
2:2U:53:TYR:O	2:2U:64:ARG:NH2	2.46	0.49
2:2V:69:ASP:OD2	2:2V:74:THR:OG1	2.22	0.49
2:2Y:406:HIS:CE1	1:3M:263:PRO:CA	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Z:44:LEU:HA	2:2Z:49:ILE:HB	1.93	0.49
1:3A:311:LYS:H	1:3A:382:THR:HB	1.77	0.49
1:3G:283:HIS:HB3	1:3I:88:HIS:CG	2.48	0.49
1:3J:3:GLU:HA	1:3J:51:THR:HA	1.95	0.49
1:3J:311:LYS:H	1:3J:382:THR:HB	1.77	0.49
1:3L:283:HIS:HB3	1:3M:88:HIS:CG	2.47	0.49
2:3Q:285:ALA:HB2	2:3R:56:ALA:HA	1.94	0.49
2:3T:10:GLY:O	2:3T:14:ASN:ND2	2.45	0.49
2:3T:275:LEU:H	2:3T:294:GLN:HE22	1.60	0.49
2:3V:69:ASP:OD2	2:3V:74:THR:OG1	2.22	0.49
2:3Z:44:LEU:HA	2:3Z:49:ILE:HB	1.93	0.49
1:4A:311:LYS:H	1:4A:382:THR:HB	1.78	0.49
1:4C:283:HIS:HB3	1:4D:88:HIS:CG	2.47	0.49
1:4C:311:LYS:H	1:4C:382:THR:HB	1.78	0.49
1:4D:3:GLU:HA	1:4D:51:THR:HA	1.95	0.49
1:4F:3:GLU:HA	1:4F:51:THR:HA	1.95	0.49
1:4F:311:LYS:H	1:4F:382:THR:HB	1.78	0.49
1:4J:311:LYS:H	1:4J:382:THR:HB	1.77	0.49
1:4L:3:GLU:HA	1:4L:51:THR:HA	1.95	0.49
2:4O:174:SER:HB2	2:4O:207:GLU:HB2	1.93	0.49
2:4Q:285:ALA:HB2	2:4R:56:ALA:HA	1.94	0.49
2:4R:275:LEU:H	2:4R:294:GLN:HE22	1.60	0.49
2:4S:275:LEU:H	2:4S:294:GLN:HE22	1.59	0.49
2:4U:53:TYR:O	2:4U:64:ARG:NH2	2.46	0.49
2:4X:31:ASP:OD1	2:4X:35:SER:N	2.41	0.49
2:4Z:44:LEU:HA	2:4Z:49:ILE:HB	1.93	0.49
1:1A:253:THR:HB	2:4H:100:GLY:CA	2.43	0.49
1:1B:311:LYS:H	1:1B:382:THR:HB	1.77	0.49
1:1C:262:TYR:CZ	2:4P:403:ALA:CB	2.93	0.49
1:1C:283:HIS:HB3	1:1D:88:HIS:CG	2.47	0.49
1:1C:311:LYS:H	1:1C:382:THR:HB	1.78	0.49
1:1D:120:ASP:OD1	1:1D:123:ARG:NH2	2.45	0.49
1:1D:262:TYR:HE2	2:4Q:403:ALA:HB2	1.76	0.49
1:1D:351:PHE:HD2	2:4Q:178:SER:OG	1.92	0.49
1:1E:3:GLU:HA	1:1E:51:THR:HA	1.95	0.49
1:1E:254:GLU:HG2	2:4R:100:GLY:C	2.33	0.49
1:1E:311:LYS:H	1:1E:382:THR:HB	1.77	0.49
1:1F:3:GLU:HA	1:1F:51:THR:HA	1.95	0.49
1:1F:261:PRO:C	2:4S:404:PHE:H	2.16	0.49
1:1F:283:HIS:HB3	1:1G:88:HIS:CG	2.47	0.49
1:1F:348:PRO:HG3	2:4S:394:GLN:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:3:GLU:HA	1:1G:51:THR:HA	1.95	0.49
1:1G:349:THR:OG1	2:4T:184:PRO:CG	2.60	0.49
1:1I:283:HIS:HB3	1:1J:88:HIS:CG	2.47	0.49
1:1J:3:GLU:HA	1:1J:51:THR:HA	1.95	0.49
1:1J:311:LYS:H	1:1J:382:THR:HB	1.77	0.49
1:1J:326:LYS:HD2	2:4V:222:PRO:HD2	1.95	0.49
1:1L:120:ASP:OD1	1:1L:123:ARG:NH2	2.45	0.49
2:1O:222:PRO:HG2	1:2B:326:LYS:HB2	1.94	0.49
2:1P:181:VAL:N	1:2C:258:ASN:ND2	2.55	0.49
2:1R:275:LEU:H	2:1R:294:GLN:HE22	1.60	0.49
2:1S:220:THR:O	1:2F:326:LYS:HD2	2.12	0.49
2:1S:221:THR:CB	1:2F:324:VAL:HG21	2.40	0.49
2:1U:224:TYR:HE2	1:2I:248:LEU:CB	2.20	0.49
2:1V:10:GLY:O	2:1V:14:ASN:ND2	2.45	0.49
2:1W:404:PHE:CZ	1:2K:260:VAL:C	2.71	0.49
1:2B:311:LYS:H	1:2B:382:THR:HB	1.77	0.49
1:2C:283:HIS:HB3	1:2D:88:HIS:CG	2.47	0.49
1:2D:3:GLU:HA	1:2D:51:THR:HA	1.95	0.49
1:2J:3:GLU:HA	1:2J:51:THR:HA	1.95	0.49
1:2L:3:GLU:HA	1:2L:51:THR:HA	1.95	0.49
2:2O:10:GLY:O	2:2O:14:ASN:ND2	2.45	0.49
2:2R:53:TYR:O	2:2R:64:ARG:NH2	2.46	0.49
2:2S:53:TYR:O	2:2S:64:ARG:NH2	2.45	0.49
2:2S:394:GLN:HA	1:3F:348:PRO:HG3	1.94	0.49
2:2T:10:GLY:O	2:2T:14:ASN:ND2	2.45	0.49
5:2T:501:GDP:C8	1:3G:248:LEU:CD1	2.92	0.49
2:2U:180:THR:HB	2:2U:183:GLU:HB3	1.95	0.49
2:2X:174:SER:HB2	2:2X:207:GLU:HB2	1.93	0.49
1:3B:311:LYS:H	1:3B:382:THR:HB	1.77	0.49
1:3F:3:GLU:HA	1:3F:51:THR:HA	1.95	0.49
1:3F:283:HIS:HB3	1:3G:88:HIS:CG	2.47	0.49
1:3G:3:GLU:HA	1:3G:51:THR:HA	1.95	0.49
1:3I:3:GLU:HA	1:3I:51:THR:HA	1.95	0.49
1:3I:283:HIS:HB3	1:3J:88:HIS:CG	2.47	0.49
1:3K:3:GLU:HA	1:3K:51:THR:HA	1.95	0.49
1:3L:3:GLU:HA	1:3L:51:THR:HA	1.95	0.49
1:3L:120:ASP:OD1	1:3L:123:ARG:NH2	2.45	0.49
2:3O:10:GLY:O	2:3O:14:ASN:ND2	2.45	0.49
2:3S:53:TYR:O	2:3S:64:ARG:NH2	2.45	0.49
2:3S:275:LEU:H	2:3S:294:GLN:HE22	1.60	0.49
2:3V:10:GLY:O	2:3V:14:ASN:ND2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4B:311:LYS:H	1:4B:382:THR:HB	1.77	0.49
1:4J:3:GLU:HA	1:4J:51:THR:HA	1.95	0.49
1:4K:241:SER:OG	1:4K:250:VAL:O	2.25	0.49
1:4L:172:TYR:N	1:4L:204:VAL:O	2.43	0.49
2:4O:10:GLY:O	2:4O:14:ASN:ND2	2.45	0.49
2:4O:217:LEU:HD11	2:4O:275:LEU:HD22	1.94	0.49
2:4Q:174:SER:HB2	2:4Q:207:GLU:HB2	1.93	0.49
2:4R:44:LEU:HA	2:4R:49:ILE:HB	1.93	0.49
2:4S:53:TYR:O	2:4S:64:ARG:NH2	2.45	0.49
2:4T:275:LEU:H	2:4T:294:GLN:HE22	1.60	0.49
2:4V:10:GLY:O	2:4V:14:ASN:ND2	2.45	0.49
1:1C:314:ALA:HB2	2:4P:181:VAL:CG1	2.30	0.49
1:1D:3:GLU:HA	1:1D:51:THR:HA	1.95	0.49
1:1D:329:ASN:CG	2:4Q:207:GLU:OE1	2.51	0.49
1:1I:311:LYS:H	1:1I:382:THR:HB	1.77	0.49
1:1J:262:TYR:OH	2:4V:403:ALA:HA	2.12	0.49
1:1K:3:GLU:HA	1:1K:51:THR:HA	1.95	0.49
1:1K:261:PRO:HA	2:4W:404:PHE:CD1	2.48	0.49
1:1L:172:TYR:N	1:1L:204:VAL:O	2.43	0.49
2:1O:10:GLY:O	2:1O:14:ASN:ND2	2.45	0.49
2:1Q:174:SER:HB2	2:1Q:207:GLU:HB2	1.93	0.49
2:1Q:285:ALA:HB2	2:1R:56:ALA:HA	1.94	0.49
2:1R:53:TYR:O	2:1R:64:ARG:NH2	2.46	0.49
2:1R:174:SER:HB2	2:1R:207:GLU:HB2	1.93	0.49
2:1R:180:THR:HB	2:1R:183:GLU:HB3	1.95	0.49
2:1S:174:SER:HB2	2:1S:207:GLU:HB2	1.93	0.49
2:1T:11:GLN:HE22	1:2G:249:ASN:H	1.60	0.49
2:1U:180:THR:HB	2:1U:183:GLU:HB3	1.95	0.49
2:1U:404:PHE:HE1	1:2I:260:VAL:C	2.06	0.49
2:1Z:401:ARG:CB	1:2N:262:TYR:HH	2.19	0.49
2:1Z:404:PHE:H	1:2N:261:PRO:C	2.12	0.49
1:2A:79:ARG:NH2	1:2A:92:LEU:O	2.41	0.49
1:2B:283:HIS:HB3	1:2C:88:HIS:CG	2.47	0.49
1:2E:3:GLU:HA	1:2E:51:THR:HA	1.95	0.49
1:2F:3:GLU:HA	1:2F:51:THR:HA	1.95	0.49
1:2I:283:HIS:HB3	1:2J:88:HIS:CG	2.47	0.49
1:2I:311:LYS:H	1:2I:382:THR:HB	1.77	0.49
1:2J:311:LYS:H	1:2J:382:THR:HB	1.77	0.49
2:2H:214:PHE:CB	1:3A:326:LYS:CE	2.70	0.49
2:2O:403:ALA:HA	1:3B:262:TYR:CE1	2.47	0.49
2:2Q:214:PHE:CB	1:3D:326:LYS:CE	2.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:2Q:501:GDP:H8	1:3D:248:LEU:HD13	1.76	0.49
2:2R:174:SER:HB2	2:2R:207:GLU:HB2	1.93	0.49
2:2R:180:THR:HB	2:2R:183:GLU:HB3	1.95	0.49
2:2S:174:SER:HB2	2:2S:207:GLU:HB2	1.93	0.49
2:2V:10:GLY:O	2:2V:14:ASN:ND2	2.45	0.49
2:2X:31:ASP:OD1	2:2X:35:SER:N	2.41	0.49
2:2X:101:ASN:ND2	1:3L:258:ASN:CG	2.64	0.49
2:2Y:182:VAL:HG21	1:3M:257:THR:HG22	1.94	0.49
2:2Z:403:ALA:HA	1:3N:262:TYR:CZ	2.48	0.49
1:3A:79:ARG:NH2	1:3A:92:LEU:O	2.41	0.49
1:3B:283:HIS:HB3	1:3C:88:HIS:CG	2.47	0.49
1:3C:283:HIS:HB3	1:3D:88:HIS:CG	2.47	0.49
2:3R:53:TYR:O	2:3R:64:ARG:NH2	2.46	0.49
2:3R:174:SER:HB2	2:3R:207:GLU:HB2	1.93	0.49
2:3S:174:SER:HB2	2:3S:207:GLU:HB2	1.93	0.49
2:3U:31:ASP:OD1	2:3U:35:SER:N	2.41	0.49
2:3U:285:ALA:HB2	2:3V:56:ALA:HA	1.94	0.49
1:4A:79:ARG:NH2	1:4A:92:LEU:O	2.41	0.49
1:4B:283:HIS:HB3	1:4C:88:HIS:CG	2.47	0.49
1:4E:311:LYS:H	1:4E:382:THR:HB	1.77	0.49
1:4I:3:GLU:HA	1:4I:51:THR:HA	1.95	0.49
1:4I:283:HIS:HB3	1:4J:88:HIS:CG	2.47	0.49
1:4K:3:GLU:HA	1:4K:51:THR:HA	1.95	0.49
1:4M:311:LYS:H	1:4M:382:THR:HB	1.77	0.49
2:4H:165:ILE:HA	2:4H:199:ASP:OD2	2.12	0.49
2:4R:53:TYR:O	2:4R:64:ARG:NH2	2.46	0.49
2:4R:180:THR:HB	2:4R:183:GLU:HB3	1.95	0.49
2:4S:165:ILE:HA	2:4S:199:ASP:OD2	2.12	0.49
2:4V:285:ALA:HB2	2:4W:56:ALA:HA	1.94	0.49
2:4Y:44:LEU:HA	2:4Y:49:ILE:HB	1.93	0.49
1:1A:260:VAL:CG1	2:4H:407:TRP:HE1	2.26	0.49
1:1B:283:HIS:HB3	1:1C:88:HIS:CG	2.47	0.49
1:1B:349:THR:OG1	2:4O:184:PRO:CG	2.60	0.49
1:1F:261:PRO:O	2:4S:404:PHE:N	2.45	0.49
1:1G:346:TRP:CD2	2:4T:403:ALA:CB	2.95	0.49
1:1I:3:GLU:HA	1:1I:51:THR:HA	1.95	0.49
1:1N:3:GLU:HA	1:1N:51:THR:HA	1.95	0.49
2:1H:165:ILE:HA	2:1H:199:ASP:OD2	2.12	0.49
2:1P:181:VAL:N	1:2C:258:ASN:HD22	2.04	0.49
2:1S:275:LEU:H	2:1S:294:GLN:HE22	1.60	0.49
2:1U:31:ASP:OD1	2:1U:35:SER:N	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1U:285:ALA:HB2	2:1V:56:ALA:HA	1.94	0.49
1:2E:311:LYS:H	1:2E:382:THR:HB	1.77	0.49
1:2G:3:GLU:HA	1:2G:51:THR:HA	1.95	0.49
1:2I:3:GLU:HA	1:2I:51:THR:HA	1.95	0.49
1:2L:172:TYR:N	1:2L:204:VAL:O	2.44	0.49
1:2M:311:LYS:H	1:2M:382:THR:HB	1.77	0.49
2:2H:181:VAL:HG23	1:3A:258:ASN:HB3	1.94	0.49
2:2Q:174:SER:HB2	2:2Q:207:GLU:HB2	1.93	0.49
2:2R:222:PRO:CG	1:3E:326:LYS:CB	2.86	0.49
2:2R:222:PRO:C	1:3E:324:VAL:HG13	2.33	0.49
2:2R:398:MET:HA	1:3E:346:TRP:HB2	1.94	0.49
2:2S:165:ILE:HA	2:2S:199:ASP:OD2	2.12	0.49
2:2S:275:LEU:H	2:2S:294:GLN:HE22	1.60	0.49
2:2T:158:ARG:HD3	2:2T:162:PRO:HA	1.93	0.49
2:2T:214:PHE:CG	1:3G:326:LYS:CE	2.96	0.49
2:2T:406:HIS:ND1	1:3G:263:PRO:HB3	2.28	0.49
2:2U:406:HIS:CE1	1:3I:263:PRO:HA	2.47	0.49
2:2V:72:PRO:CD	1:3J:2:ARG:CG	2.91	0.49
2:2W:72:PRO:CG	1:3K:2:ARG:CG	2.87	0.49
2:2Y:44:LEU:HA	2:2Y:49:ILE:HB	1.93	0.49
1:3D:3:GLU:HA	1:3D:51:THR:HA	1.95	0.49
1:3E:3:GLU:HA	1:3E:51:THR:HA	1.95	0.49
1:3E:311:LYS:H	1:3E:382:THR:HB	1.77	0.49
1:3L:172:TYR:N	1:3L:204:VAL:O	2.43	0.49
2:3Q:174:SER:HB2	2:3Q:207:GLU:HB2	1.93	0.49
2:3R:275:LEU:H	2:3R:294:GLN:HE22	1.60	0.49
2:3T:158:ARG:HD3	2:3T:162:PRO:HA	1.93	0.49
2:3U:180:THR:HB	2:3U:183:GLU:HB3	1.95	0.49
2:3X:31:ASP:OD1	2:3X:35:SER:N	2.41	0.49
2:3X:174:SER:HB2	2:3X:207:GLU:HB2	1.93	0.49
2:3Y:44:LEU:HA	2:3Y:49:ILE:HB	1.93	0.49
1:4E:3:GLU:HA	1:4E:51:THR:HA	1.95	0.49
1:4I:311:LYS:H	1:4I:382:THR:HB	1.77	0.49
2:4R:174:SER:HB2	2:4R:207:GLU:HB2	1.93	0.49
2:4S:174:SER:HB2	2:4S:207:GLU:HB2	1.93	0.49
2:4U:180:THR:HB	2:4U:183:GLU:HB3	1.95	0.49
2:4X:174:SER:HB2	2:4X:207:GLU:HB2	1.93	0.49
1:1A:79:ARG:NH2	1:1A:92:LEU:O	2.41	0.49
1:1A:132:LEU:HD23	1:1A:164:LYS:HZ3	1.78	0.49
1:1B:351:PHE:N	2:4O:178:SER:OG	2.45	0.49
1:1C:352:LYS:HD2	2:4P:179:ASP:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1D:283:HIS:HB3	1:1E:88:HIS:CG	2.47	0.49
1:1I:346:TRP:CZ3	2:4U:403:ALA:HB3	2.47	0.49
1:1M:311:LYS:H	1:1M:382:THR:HB	1.77	0.49
2:1H:56:ALA:HA	2:1Z:285:ALA:HB2	1.94	0.49
2:1P:101:ASN:HB2	1:2C:254:GLU:HG2	1.95	0.49
2:1S:165:ILE:HA	2:1S:199:ASP:OD2	2.12	0.49
2:1T:158:ARG:HD3	2:1T:162:PRO:HA	1.94	0.49
2:1U:10:GLY:O	2:1U:14:ASN:ND2	2.45	0.49
2:1V:214:PHE:HB2	1:2J:326:LYS:CE	2.30	0.49
2:1V:285:ALA:HB2	2:1W:56:ALA:HA	1.94	0.49
2:1W:10:GLY:O	2:1W:14:ASN:ND2	2.45	0.49
2:1W:53:TYR:O	2:1W:64:ARG:NH2	2.45	0.49
2:1W:401:ARG:HB2	1:2K:262:TYR:OH	2.11	0.49
2:1X:31:ASP:OD1	2:1X:35:SER:N	2.41	0.49
2:1Y:44:LEU:HA	2:1Y:49:ILE:HB	1.93	0.49
2:1Y:178:SER:HB3	1:2M:349:THR:HB	1.95	0.49
1:2B:3:GLU:HA	1:2B:51:THR:HA	1.95	0.49
2:2H:165:ILE:HA	2:2H:199:ASP:OD2	2.12	0.49
2:2H:404:PHE:CZ	1:3A:261:PRO:HB3	2.43	0.49
2:2O:214:PHE:CB	1:3B:326:LYS:CE	2.73	0.49
2:2V:177:VAL:HG23	1:3J:332:ILE:HG22	1.93	0.49
2:2W:224:TYR:HH	1:3K:248:LEU:HD22	1.75	0.49
2:2W:403:ALA:HB1	1:3K:261:PRO:HB2	1.93	0.49
1:3I:311:LYS:H	1:3I:382:THR:HB	1.78	0.49
1:3M:311:LYS:H	1:3M:382:THR:HB	1.77	0.49
2:3H:165:ILE:HA	2:3H:199:ASP:OD2	2.12	0.49
2:3R:180:THR:HB	2:3R:183:GLU:HB3	1.95	0.49
2:3S:165:ILE:HA	2:3S:199:ASP:OD2	2.12	0.49
1:4B:3:GLU:HA	1:4B:51:THR:HA	1.94	0.49
1:4G:3:GLU:HA	1:4G:51:THR:HA	1.95	0.49
2:4P:174:SER:HB2	2:4P:207:GLU:HB2	1.93	0.49
2:4T:158:ARG:HD3	2:4T:162:PRO:HA	1.93	0.49
2:4V:53:TYR:O	2:4V:64:ARG:NH2	2.46	0.49
1:1B:2:ARG:CD	2:4O:72:PRO:CD	2.70	0.49
1:1B:3:GLU:HA	1:1B:51:THR:HA	1.95	0.49
1:1C:258:ASN:HD22	2:4P:182:VAL:HG22	1.75	0.49
1:1D:347:CYS:HA	2:4Q:398:MET:CG	2.42	0.49
1:1E:332:ILE:CB	2:4R:177:VAL:HG21	2.32	0.49
1:1K:261:PRO:HB3	2:4W:404:PHE:CE2	2.47	0.49
2:1W:181:VAL:CB	1:2K:258:ASN:C	2.79	0.49
2:1X:394:GLN:NE2	1:2L:349:THR:HG23	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2N:3:GLU:HA	1:2N:51:THR:HA	1.95	0.49
2:2H:56:ALA:HA	2:2Z:285:ALA:HB2	1.94	0.49
2:2Q:178:SER:O	1:3D:351:PHE:O	2.30	0.49
2:2Q:178:SER:OG	1:3D:351:PHE:N	2.46	0.49
2:2Q:181:VAL:CB	1:3D:258:ASN:O	2.61	0.49
2:2U:158:ARG:HD3	2:2U:162:PRO:HA	1.93	0.49
2:2V:53:TYR:O	2:2V:64:ARG:NH2	2.46	0.49
2:2V:285:ALA:HB2	2:2W:56:ALA:HA	1.94	0.49
2:2W:10:GLY:O	2:2W:14:ASN:ND2	2.45	0.49
2:2W:53:TYR:O	2:2W:64:ARG:NH2	2.45	0.49
2:2W:404:PHE:CE1	1:3K:261:PRO:CD	2.95	0.49
2:2W:407:TRP:HE1	1:3K:260:VAL:HB	1.78	0.49
2:2Y:158:ARG:HD3	2:2Y:162:PRO:HA	1.93	0.49
2:2Y:181:VAL:HG23	1:3M:258:ASN:HB3	1.93	0.49
2:2Y:401:ARG:NH2	1:3M:434:GLU:C	2.56	0.49
1:3A:132:LEU:HD23	1:3A:164:LYS:HZ3	1.78	0.49
1:3D:283:HIS:HB3	1:3E:88:HIS:CG	2.47	0.49
1:3F:132:LEU:HD23	1:3F:164:LYS:HZ3	1.78	0.49
1:3N:3:GLU:HA	1:3N:51:THR:HA	1.95	0.49
2:3S:180:THR:HB	2:3S:183:GLU:HB3	1.95	0.49
2:3U:10:GLY:O	2:3U:14:ASN:ND2	2.45	0.49
2:3V:285:ALA:HB2	2:3W:56:ALA:HA	1.94	0.49
2:3W:10:GLY:O	2:3W:14:ASN:ND2	2.45	0.49
2:3W:53:TYR:O	2:3W:64:ARG:NH2	2.46	0.49
1:4D:283:HIS:HB3	1:4E:88:HIS:CG	2.47	0.49
1:4M:3:GLU:HA	1:4M:51:THR:HA	1.95	0.49
1:4N:3:GLU:HA	1:4N:51:THR:HA	1.95	0.49
2:4U:158:ARG:HD3	2:4U:162:PRO:HA	1.93	0.49
2:4W:10:GLY:O	2:4W:14:ASN:ND2	2.45	0.49
2:4W:53:TYR:O	2:4W:64:ARG:NH2	2.45	0.49
2:4Z:10:GLY:O	2:4Z:14:ASN:ND2	2.45	0.49
1:1A:248:LEU:HA	2:4H:11:GLN:NE2	2.27	0.49
1:1G:324:VAL:HG13	2:4T:222:PRO:C	2.32	0.49
1:1K:257:THR:HG21	2:4W:102:ASN:HB2	1.95	0.49
1:1L:329:ASN:ND2	2:4X:210:TYR:CE2	2.73	0.49
1:1L:349:THR:CB	2:4X:184:PRO:HD3	2.43	0.49
1:1M:3:GLU:HA	1:1M:51:THR:HA	1.95	0.49
1:1M:346:TRP:O	2:4Y:398:MET:CA	2.61	0.49
1:1M:349:THR:HG21	2:4Y:184:PRO:CD	2.41	0.49
2:1H:181:VAL:HB	1:2A:258:ASN:CA	2.43	0.49
2:1O:100:GLY:CA	1:2B:253:THR:CG2	2.91	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1O:157:ILE:O	2:1O:161:TYR:N	2.46	0.49
2:1R:178:SER:HB3	1:2E:349:THR:HG22	1.95	0.49
2:1U:158:ARG:HD3	2:1U:162:PRO:HA	1.93	0.49
2:1V:53:TYR:O	2:1V:64:ARG:NH2	2.46	0.49
2:1W:222:PRO:HD2	1:2K:326:LYS:HB3	1.95	0.49
1:2C:172:TYR:N	1:2C:204:VAL:O	2.43	0.49
1:2D:283:HIS:HB3	1:2E:88:HIS:CG	2.48	0.49
1:2E:283:HIS:HB3	1:2F:88:HIS:CG	2.47	0.49
1:2F:132:LEU:HD23	1:2F:164:LYS:HZ3	1.78	0.49
1:2M:172:TYR:N	1:2M:204:VAL:O	2.43	0.49
2:2P:174:SER:HB2	2:2P:207:GLU:HB2	1.93	0.49
2:2S:180:THR:HB	2:2S:183:GLU:HB3	1.95	0.49
2:2S:222:PRO:C	1:3F:324:VAL:HG13	2.33	0.49
2:2T:404:PHE:CZ	1:3G:261:PRO:CD	2.96	0.49
2:2U:10:GLY:O	2:2U:14:ASN:ND2	2.45	0.49
2:2U:285:ALA:HB2	2:2V:56:ALA:HA	1.94	0.49
2:2W:177:VAL:CG2	1:3K:332:ILE:HG21	2.43	0.49
2:2W:207:GLU:OE1	1:3K:329:ASN:ND2	2.32	0.49
1:3B:3:GLU:HA	1:3B:51:THR:HA	1.95	0.49
1:3C:172:TYR:N	1:3C:204:VAL:O	2.43	0.49
1:3M:172:TYR:N	1:3M:204:VAL:O	2.43	0.49
2:3H:56:ALA:HA	2:3Z:285:ALA:HB2	1.94	0.49
2:3U:158:ARG:HD3	2:3U:162:PRO:HA	1.93	0.49
2:3V:53:TYR:O	2:3V:64:ARG:NH2	2.46	0.49
2:3Y:158:ARG:HD3	2:3Y:162:PRO:HA	1.93	0.49
1:4A:132:LEU:HD23	1:4A:164:LYS:HZ3	1.78	0.49
1:4A:283:HIS:HB3	1:4B:88:HIS:CG	2.47	0.49
1:4D:311:LYS:H	1:4D:382:THR:HB	1.77	0.49
1:4F:132:LEU:HD23	1:4F:164:LYS:HZ3	1.78	0.49
1:4M:172:TYR:N	1:4M:204:VAL:O	2.43	0.49
2:4H:56:ALA:HA	2:4Z:285:ALA:HB2	1.94	0.49
2:4S:180:THR:HB	2:4S:183:GLU:HB3	1.95	0.49
2:4U:285:ALA:HB2	2:4V:56:ALA:HA	1.94	0.49
2:4X:10:GLY:O	2:4X:14:ASN:ND2	2.45	0.49
2:4Y:10:GLY:O	2:4Y:14:ASN:ND2	2.45	0.49
2:4Y:158:ARG:HD3	2:4Y:162:PRO:HA	1.93	0.49
1:1A:248:LEU:C	2:4H:11:GLN:HE22	2.06	0.49
1:1C:3:GLU:HA	1:1C:51:THR:HA	1.95	0.49
1:1C:172:TYR:N	1:1C:204:VAL:O	2.43	0.49
1:1C:248:LEU:HA	2:4P:11:GLN:NE2	2.27	0.49
1:1C:262:TYR:CZ	2:4P:403:ALA:HB2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:326:LYS:CA	2:4P:210:TYR:CE1	2.92	0.49
1:1F:261:PRO:C	2:4S:404:PHE:HA	2.32	0.49
1:1I:257:THR:CG2	2:4U:102:ASN:HB2	2.43	0.49
1:1M:172:TYR:N	1:1M:204:VAL:O	2.43	0.49
2:1H:53:TYR:O	2:1H:64:ARG:NH2	2.45	0.49
2:1P:174:SER:HB2	2:1P:207:GLU:HB2	1.93	0.49
2:1P:285:ALA:HB2	2:1Q:56:ALA:HA	1.94	0.49
2:1Q:181:VAL:HG23	1:2D:258:ASN:HB3	1.95	0.49
2:1Q:404:PHE:CE2	1:2D:261:PRO:CB	2.85	0.49
2:1R:214:PHE:CE1	1:2E:326:LYS:HE3	2.46	0.49
2:1S:181:VAL:CG2	1:2F:258:ASN:HB3	2.42	0.49
2:1U:403:ALA:HB2	1:2I:262:TYR:CE1	2.44	0.49
2:1V:403:ALA:CB	1:2J:262:TYR:CZ	2.81	0.49
2:1Y:158:ARG:HD3	2:1Y:162:PRO:HA	1.94	0.49
1:2A:132:LEU:HD23	1:2A:164:LYS:HZ3	1.78	0.49
1:2C:3:GLU:HA	1:2C:51:THR:HA	1.95	0.49
1:2D:311:LYS:H	1:2D:382:THR:HB	1.77	0.49
1:2M:3:GLU:HA	1:2M:51:THR:HA	1.95	0.49
2:2P:180:THR:HB	2:2P:183:GLU:HB3	1.95	0.49
2:2X:10:GLY:O	2:2X:14:ASN:ND2	2.45	0.49
2:2Y:10:GLY:O	2:2Y:14:ASN:ND2	2.45	0.49
1:3D:311:LYS:H	1:3D:382:THR:HB	1.77	0.49
1:3E:283:HIS:HB3	1:3F:88:HIS:CG	2.47	0.49
2:3P:174:SER:HB2	2:3P:207:GLU:HB2	1.93	0.49
2:3P:180:THR:HB	2:3P:183:GLU:HB3	1.95	0.49
2:3P:285:ALA:HB2	2:3Q:56:ALA:HA	1.94	0.49
2:3X:10:GLY:O	2:3X:14:ASN:ND2	2.45	0.49
1:4C:172:TYR:N	1:4C:204:VAL:O	2.44	0.49
1:4E:283:HIS:HB3	1:4F:88:HIS:CG	2.48	0.49
1:4M:79:ARG:NH2	1:4M:92:LEU:O	2.41	0.49
2:4O:157:ILE:O	2:4O:161:TYR:N	2.46	0.49
2:4P:180:THR:HB	2:4P:183:GLU:HB3	1.95	0.49
2:4P:285:ALA:HB2	2:4Q:56:ALA:HA	1.94	0.49
2:4Q:157:ILE:O	2:4Q:161:TYR:N	2.46	0.49
2:4U:10:GLY:O	2:4U:14:ASN:ND2	2.45	0.49
1:1B:352:LYS:HD2	2:4O:179:ASP:O	2.12	0.48
1:1D:311:LYS:H	1:1D:382:THR:HB	1.77	0.48
1:1E:261:PRO:C	2:4R:406:HIS:CD2	2.86	0.48
1:1E:283:HIS:HB3	1:1F:88:HIS:CG	2.47	0.48
1:1F:132:LEU:HD23	1:1F:164:LYS:HZ3	1.78	0.48
1:1L:258:ASN:HD21	2:4X:180:THR:HG23	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1L:314:ALA:HB2	2:4X:181:VAL:HG11	1.94	0.48
1:1N:324:VAL:HG11	2:4Z:221:THR:C	2.34	0.48
2:1S:154:ILE:HG23	2:1S:166:MET:HG2	1.95	0.48
2:1S:180:THR:HB	2:1S:183:GLU:HB3	1.95	0.48
2:1T:154:ILE:HG23	2:1T:166:MET:HG2	1.95	0.48
2:1T:180:THR:HB	2:1T:183:GLU:HB3	1.95	0.48
2:1V:158:ARG:HD3	2:1V:162:PRO:HA	1.93	0.48
2:1X:10:GLY:O	2:1X:14:ASN:ND2	2.45	0.48
2:1Y:10:GLY:O	2:1Y:14:ASN:ND2	2.45	0.48
2:1Z:10:GLY:O	2:1Z:14:ASN:ND2	2.45	0.48
1:2A:283:HIS:HB3	1:2B:88:HIS:CG	2.47	0.48
1:2N:172:TYR:N	1:2N:204:VAL:O	2.43	0.48
1:2N:311:LYS:H	1:2N:382:THR:HB	1.77	0.48
2:2H:53:TYR:O	2:2H:64:ARG:NH2	2.46	0.48
2:2O:157:ILE:O	2:2O:161:TYR:N	2.46	0.48
2:2P:404:PHE:CZ	1:3C:261:PRO:HD3	2.48	0.48
2:2T:154:ILE:HG23	2:2T:166:MET:HG2	1.95	0.48
2:2U:214:PHE:CD1	1:3I:326:LYS:CE	2.92	0.48
2:2V:158:ARG:HD3	2:2V:162:PRO:HA	1.93	0.48
2:2W:181:VAL:CB	1:3K:258:ASN:O	2.61	0.48
2:2Z:10:GLY:O	2:2Z:14:ASN:ND2	2.45	0.48
2:2Z:53:TYR:O	2:2Z:64:ARG:NH2	2.46	0.48
2:2Z:181:VAL:N	1:3N:258:ASN:ND2	2.60	0.48
2:2Z:397:ALA:O	1:3N:346:TRP:CB	2.60	0.48
1:3A:3:GLU:HA	1:3A:51:THR:HA	1.95	0.48
1:3C:3:GLU:HA	1:3C:51:THR:HA	1.95	0.48
1:3M:3:GLU:HA	1:3M:51:THR:HA	1.95	0.48
2:3H:53:TYR:O	2:3H:64:ARG:NH2	2.46	0.48
2:3O:157:ILE:O	2:3O:161:TYR:N	2.46	0.48
2:3S:154:ILE:HG23	2:3S:166:MET:HG2	1.95	0.48
2:3U:154:ILE:HG23	2:3U:166:MET:HG2	1.95	0.48
2:3V:158:ARG:HD3	2:3V:162:PRO:HA	1.93	0.48
2:3Z:10:GLY:O	2:3Z:14:ASN:ND2	2.45	0.48
2:3Z:53:TYR:O	2:3Z:64:ARG:NH2	2.46	0.48
1:4A:3:GLU:HA	1:4A:51:THR:HA	1.95	0.48
1:4N:172:TYR:N	1:4N:204:VAL:O	2.43	0.48
2:4H:53:TYR:O	2:4H:64:ARG:NH2	2.46	0.48
2:4T:154:ILE:HG23	2:4T:166:MET:HG2	1.95	0.48
2:4Z:53:TYR:O	2:4Z:64:ARG:NH2	2.46	0.48
1:1A:283:HIS:HB3	1:1B:88:HIS:CG	2.47	0.48
1:1A:325:PRO:HD2	2:4H:223:THR:CA	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1F:439:SER:OG	2:4S:400:ARG:HG3	2.12	0.48
1:1I:326:LYS:CG	2:4U:222:PRO:HG2	2.43	0.48
1:1I:346:TRP:CE2	2:4U:403:ALA:CB	2.96	0.48
1:1J:349:THR:OG1	2:4V:184:PRO:HD3	2.08	0.48
1:1K:329:ASN:ND2	2:4W:210:TYR:CE2	2.74	0.48
1:1M:348:PRO:CG	2:4Y:394:GLN:CG	2.91	0.48
1:1N:172:TYR:N	1:1N:204:VAL:O	2.43	0.48
1:1N:261:PRO:CA	2:4Z:404:PHE:HA	2.39	0.48
1:1N:311:LYS:H	1:1N:382:THR:HB	1.77	0.48
2:1P:180:THR:HB	2:1P:183:GLU:HB3	1.95	0.48
2:1U:154:ILE:HG23	2:1U:166:MET:HG2	1.95	0.48
2:1W:178:SER:HB3	1:2K:349:THR:CB	2.39	0.48
2:1W:222:PRO:CG	1:2K:326:LYS:HB2	2.42	0.48
2:1W:394:GLN:NE2	1:2K:349:THR:HG23	2.28	0.48
2:1Y:404:PHE:CD2	1:2M:261:PRO:CA	2.89	0.48
2:1Z:53:TYR:O	2:1Z:64:ARG:NH2	2.46	0.48
1:2A:3:GLU:HA	1:2A:51:THR:HA	1.95	0.48
1:2M:79:ARG:NH2	1:2M:92:LEU:O	2.41	0.48
2:2P:285:ALA:HB2	2:2Q:56:ALA:HA	1.94	0.48
2:2S:154:ILE:HG23	2:2S:166:MET:HG2	1.95	0.48
2:2T:406:HIS:CD2	1:3G:262:TYR:CA	2.96	0.48
2:2U:154:ILE:HG23	2:2U:166:MET:HG2	1.95	0.48
2:2Z:3:GLU:HA	2:2Z:51:VAL:HA	1.95	0.48
1:3A:283:HIS:HB3	1:3B:88:HIS:CG	2.47	0.48
1:3M:79:ARG:NH2	1:3M:92:LEU:O	2.41	0.48
1:3N:172:TYR:N	1:3N:204:VAL:O	2.43	0.48
2:3T:154:ILE:HG23	2:3T:166:MET:HG2	1.95	0.48
2:3T:180:THR:HB	2:3T:183:GLU:HB3	1.95	0.48
2:3Y:10:GLY:O	2:3Y:14:ASN:ND2	2.45	0.48
2:3Z:3:GLU:HA	2:3Z:51:VAL:HA	1.95	0.48
1:4C:3:GLU:HA	1:4C:51:THR:HA	1.95	0.48
2:4S:154:ILE:HG23	2:4S:166:MET:HG2	1.95	0.48
2:4V:158:ARG:HD3	2:4V:162:PRO:HA	1.93	0.48
2:4Z:3:GLU:HA	2:4Z:51:VAL:HA	1.95	0.48
1:1A:3:GLU:HA	1:1A:51:THR:HA	1.95	0.48
1:1A:326:LYS:HA	2:4H:210:TYR:CE1	2.48	0.48
1:1A:349:THR:HA	2:4H:178:SER:CB	2.44	0.48
1:1C:251:ASP:HB2	1:1C:254:GLU:HG3	1.96	0.48
1:1D:253:THR:CA	2:4Q:100:GLY:HA2	2.42	0.48
1:1D:260:VAL:CA	2:4Q:407:TRP:HE1	2.19	0.48
1:1D:439:SER:CB	2:4Q:400:ARG:HD2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1F:349:THR:OG1	2:4S:184:PRO:HG2	2.12	0.48
1:1K:349:THR:OG1	2:4W:184:PRO:HD2	2.12	0.48
1:1M:79:ARG:NH2	1:1M:92:LEU:O	2.41	0.48
1:1N:79:ARG:NH2	1:1N:92:LEU:O	2.41	0.48
2:1H:3:GLU:HA	2:1H:51:VAL:HA	1.95	0.48
2:1O:181:VAL:HB	1:2B:258:ASN:HA	1.96	0.48
2:1P:100:GLY:HA2	1:2C:253:THR:CB	2.41	0.48
2:1S:210:TYR:HD2	1:2F:329:ASN:HD22	1.60	0.48
2:1U:180:THR:CA	1:2I:258:ASN:HD21	2.25	0.48
2:1V:154:ILE:HG23	2:1V:166:MET:HG2	1.95	0.48
2:1Z:3:GLU:HA	2:1Z:51:VAL:HA	1.96	0.48
1:2B:172:TYR:N	1:2B:204:VAL:O	2.43	0.48
1:2B:251:ASP:HB2	1:2B:254:GLU:HG3	1.96	0.48
1:2C:251:ASP:HB2	1:2C:254:GLU:HG3	1.96	0.48
1:2N:79:ARG:NH2	1:2N:92:LEU:O	2.41	0.48
2:2O:3:GLU:HA	2:2O:51:VAL:HA	1.95	0.48
2:2P:53:TYR:O	2:2P:64:ARG:NH2	2.46	0.48
2:2R:222:PRO:O	1:3E:324:VAL:HG13	2.13	0.48
2:2T:223:THR:CA	1:3G:325:PRO:HD2	2.32	0.48
2:2U:404:PHE:CD1	1:3I:260:VAL:C	2.87	0.48
2:2U:404:PHE:CG	1:3I:261:PRO:CB	2.94	0.48
2:2V:179:ASP:O	1:3J:352:LYS:HA	2.12	0.48
2:2X:158:ARG:HD3	2:2X:162:PRO:HA	1.93	0.48
2:2X:180:THR:HB	2:2X:183:GLU:HB3	1.95	0.48
1:3B:251:ASP:HB2	1:3B:254:GLU:HG3	1.96	0.48
1:3C:251:ASP:HB2	1:3C:254:GLU:HG3	1.96	0.48
1:3N:79:ARG:NH2	1:3N:92:LEU:O	2.41	0.48
1:3N:311:LYS:H	1:3N:382:THR:HB	1.78	0.48
2:3O:3:GLU:HA	2:3O:51:VAL:HA	1.95	0.48
2:3P:53:TYR:O	2:3P:64:ARG:NH2	2.46	0.48
2:3X:158:ARG:HD3	2:3X:162:PRO:HA	1.93	0.48
1:4B:251:ASP:HB2	1:4B:254:GLU:HG3	1.96	0.48
1:4C:251:ASP:HB2	1:4C:254:GLU:HG3	1.96	0.48
2:4O:3:GLU:HA	2:4O:51:VAL:HA	1.95	0.48
2:4O:180:THR:HB	2:4O:183:GLU:HB3	1.95	0.48
2:4P:53:TYR:O	2:4P:64:ARG:NH2	2.46	0.48
2:4R:154:ILE:HG23	2:4R:166:MET:HG2	1.95	0.48
2:4U:154:ILE:HG23	2:4U:166:MET:HG2	1.95	0.48
2:4X:158:ARG:HD3	2:4X:162:PRO:HA	1.93	0.48
1:1A:88:HIS:CG	1:1N:283:HIS:HB3	2.47	0.48
1:1B:172:TYR:N	1:1B:204:VAL:O	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:251:ASP:HB2	1:1B:254:GLU:HG3	1.96	0.48
1:1C:352:LYS:HD3	2:4P:101:ASN:ND2	2.29	0.48
1:1D:251:ASP:HB2	1:1D:254:GLU:HG3	1.96	0.48
1:1G:254:GLU:HB3	2:4T:101:ASN:HB2	1.94	0.48
1:1M:349:THR:CB	2:4Y:184:PRO:HD3	2.43	0.48
2:1O:3:GLU:HA	2:1O:51:VAL:HA	1.95	0.48
2:1O:53:TYR:O	2:1O:64:ARG:NH2	2.45	0.48
2:1O:180:THR:HB	2:1O:183:GLU:HB3	1.95	0.48
2:1P:53:TYR:O	2:1P:64:ARG:NH2	2.46	0.48
2:1Q:214:PHE:CG	1:2D:326:LYS:CE	2.96	0.48
2:1R:154:ILE:HG23	2:1R:166:MET:HG2	1.95	0.48
2:1U:221:THR:CB	1:2I:324:VAL:CG1	2.74	0.48
2:1X:158:ARG:HD3	2:1X:162:PRO:HA	1.93	0.48
2:1Y:3:GLU:HA	2:1Y:51:VAL:HA	1.95	0.48
1:2A:88:HIS:CG	1:2N:283:HIS:HB3	2.47	0.48
1:2A:172:TYR:N	1:2A:204:VAL:O	2.43	0.48
1:2D:251:ASP:HB2	1:2D:254:GLU:HG3	1.96	0.48
2:2H:3:GLU:HA	2:2H:51:VAL:HA	1.95	0.48
2:2O:53:TYR:O	2:2O:64:ARG:NH2	2.46	0.48
2:2O:222:PRO:O	1:3B:325:PRO:HD2	2.14	0.48
2:2P:406:HIS:CD2	1:3C:263:PRO:N	2.80	0.48
2:2R:154:ILE:HG23	2:2R:166:MET:HG2	1.95	0.48
2:2S:221:THR:HG1	1:3F:324:VAL:HG21	1.65	0.48
2:2T:180:THR:HB	2:2T:183:GLU:HB3	1.95	0.48
2:2U:101:ASN:ND2	1:3I:258:ASN:ND2	2.61	0.48
1:3A:88:HIS:CG	1:3N:283:HIS:HB3	2.47	0.48
1:3A:172:TYR:N	1:3A:204:VAL:O	2.43	0.48
1:3B:172:TYR:N	1:3B:204:VAL:O	2.43	0.48
1:3D:251:ASP:HB2	1:3D:254:GLU:HG3	1.96	0.48
2:3H:3:GLU:HA	2:3H:51:VAL:HA	1.95	0.48
2:3O:180:THR:HB	2:3O:183:GLU:HB3	1.95	0.48
2:3R:154:ILE:HG23	2:3R:166:MET:HG2	1.95	0.48
2:3V:154:ILE:HG23	2:3V:166:MET:HG2	1.95	0.48
2:3Y:3:GLU:HA	2:3Y:51:VAL:HA	1.95	0.48
1:4A:88:HIS:CG	1:4N:283:HIS:HB3	2.47	0.48
1:4A:172:TYR:N	1:4A:204:VAL:O	2.43	0.48
1:4B:172:TYR:N	1:4B:204:VAL:O	2.44	0.48
1:4D:251:ASP:HB2	1:4D:254:GLU:HG3	1.96	0.48
1:4N:79:ARG:NH2	1:4N:92:LEU:O	2.41	0.48
2:4H:3:GLU:HA	2:4H:51:VAL:HA	1.95	0.48
2:4O:53:TYR:O	2:4O:64:ARG:NH2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4X:180:THR:HB	2:4X:183:GLU:HB3	1.95	0.48
2:4Y:3:GLU:HA	2:4Y:51:VAL:HA	1.95	0.48
1:1A:172:TYR:N	1:1A:204:VAL:O	2.43	0.48
1:1C:262:TYR:HE2	2:4P:403:ALA:HB2	1.74	0.48
1:1E:133:GLN:HG2	2:4R:97:SER:HA	1.96	0.48
1:1F:261:PRO:CA	2:4S:404:PHE:CD1	2.96	0.48
1:1L:261:PRO:HB3	2:4X:404:PHE:CZ	2.49	0.48
1:1M:262:TYR:OH	2:4Y:403:ALA:HB2	2.13	0.48
1:1N:348:PRO:HG3	2:4Z:394:GLN:HA	1.95	0.48
2:1W:180:THR:HB	2:1W:183:GLU:HB3	1.95	0.48
2:1X:53:TYR:O	2:1X:64:ARG:NH2	2.45	0.48
2:1X:180:THR:HB	2:1X:183:GLU:HB3	1.95	0.48
2:2H:285:ALA:HB2	2:2O:56:ALA:HA	1.94	0.48
2:2O:180:THR:HB	2:2O:183:GLU:HB3	1.95	0.48
2:2S:69:ASP:OD2	2:2S:74:THR:OG1	2.22	0.48
2:2S:177:VAL:CG2	1:3F:332:ILE:CG2	2.85	0.48
2:2V:154:ILE:HG23	2:2V:166:MET:HG2	1.95	0.48
2:2V:180:THR:HB	2:2V:183:GLU:HB3	1.95	0.48
2:2V:404:PHE:HA	1:3J:261:PRO:HA	1.94	0.48
2:2W:404:PHE:CD1	1:3K:261:PRO:N	2.76	0.48
2:2Y:3:GLU:HA	2:2Y:51:VAL:HA	1.96	0.48
1:3E:132:LEU:HD23	1:3E:164:LYS:NZ	2.29	0.48
2:3H:285:ALA:HB2	2:3O:56:ALA:HA	1.94	0.48
2:3O:53:TYR:O	2:3O:64:ARG:NH2	2.46	0.48
2:3W:180:THR:HB	2:3W:183:GLU:HB3	1.95	0.48
2:3X:180:THR:HB	2:3X:183:GLU:HB3	1.95	0.48
1:4C:241:SER:OG	1:4C:250:VAL:O	2.25	0.48
1:4N:311:LYS:H	1:4N:382:THR:HB	1.78	0.48
2:4H:285:ALA:HB2	2:4O:56:ALA:HA	1.94	0.48
2:4O:285:ALA:HB2	2:4P:56:ALA:HA	1.94	0.48
2:4T:180:THR:HB	2:4T:183:GLU:HB3	1.95	0.48
2:4V:154:ILE:HG23	2:4V:166:MET:HG2	1.95	0.48
2:4V:180:THR:HB	2:4V:183:GLU:HB3	1.95	0.48
1:1A:324:VAL:HG12	2:4H:222:PRO:O	2.14	0.48
1:1E:132:LEU:HD23	1:1E:164:LYS:NZ	2.29	0.48
1:1E:251:ASP:HB2	1:1E:254:GLU:HG3	1.96	0.48
1:1E:253:THR:CB	2:4R:100:GLY:CA	2.91	0.48
1:1F:348:PRO:HD2	2:4S:398:MET:CG	2.42	0.48
1:1G:439:SER:OG	2:4T:401:ARG:HG2	2.13	0.48
1:1I:257:THR:CG2	2:4U:100:GLY:O	2.60	0.48
1:1I:258:ASN:OD1	2:4U:101:ASN:HB3	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1H:285:ALA:HB2	2:1O:56:ALA:HA	1.94	0.48
2:1P:3:GLU:HA	2:1P:51:VAL:HA	1.95	0.48
2:1S:100:GLY:HA2	1:2F:253:THR:HG22	1.93	0.48
2:1V:100:GLY:O	1:2J:253:THR:HG22	2.14	0.48
2:1X:3:GLU:HA	2:1X:51:VAL:HA	1.95	0.48
2:1Z:222:PRO:O	1:2N:325:PRO:HD2	2.13	0.48
1:2E:132:LEU:HD23	1:2E:164:LYS:NZ	2.29	0.48
2:2O:285:ALA:HB2	2:2P:56:ALA:HA	1.94	0.48
2:2P:394:GLN:OE1	1:3C:349:THR:HG23	2.14	0.48
2:2Q:72:PRO:HD2	1:3D:2:ARG:HG2	1.93	0.48
2:2X:3:GLU:HA	2:2X:51:VAL:HA	1.95	0.48
2:2X:53:TYR:O	2:2X:64:ARG:NH2	2.46	0.48
2:2Y:53:TYR:O	2:2Y:64:ARG:NH2	2.45	0.48
2:2Y:181:VAL:N	1:3M:258:ASN:ND2	2.61	0.48
1:3E:251:ASP:HB2	1:3E:254:GLU:HG3	1.96	0.48
2:3O:285:ALA:HB2	2:3P:56:ALA:HA	1.94	0.48
2:3V:180:THR:HB	2:3V:183:GLU:HB3	1.95	0.48
1:4D:180:ALA:HB3	1:4D:183:GLU:HG3	1.96	0.48
1:4E:132:LEU:HD23	1:4E:164:LYS:NZ	2.29	0.48
2:4X:3:GLU:HA	2:4X:51:VAL:HA	1.95	0.48
2:4X:53:TYR:O	2:4X:64:ARG:NH2	2.46	0.48
1:1D:180:ALA:HB3	1:1D:183:GLU:HG3	1.96	0.48
1:1F:261:PRO:O	2:4S:406:HIS:HD2	1.95	0.48
1:1G:261:PRO:HB3	2:4T:404:PHE:CD1	2.48	0.48
1:1G:324:VAL:HG13	2:4T:223:THR:HA	1.95	0.48
1:1G:325:PRO:HB2	2:4T:224:TYR:CE1	2.49	0.48
1:1J:349:THR:HG21	2:4V:184:PRO:CG	2.43	0.48
1:1N:27:GLU:OE2	1:1N:236:SER:OG	2.22	0.48
1:1N:329:ASN:CB	2:4Z:210:TYR:CE2	2.92	0.48
2:1O:285:ALA:HB2	2:1P:56:ALA:HA	1.94	0.48
2:1Q:404:PHE:CZ	1:2D:261:PRO:CB	2.96	0.48
2:1V:180:THR:HB	2:1V:183:GLU:HB3	1.95	0.48
2:1W:154:ILE:HG23	2:1W:166:MET:HG2	1.95	0.48
2:1W:157:ILE:O	2:1W:161:TYR:N	2.46	0.48
2:1X:404:PHE:CD1	1:2L:261:PRO:HA	2.48	0.48
2:1Y:53:TYR:O	2:1Y:64:ARG:NH2	2.46	0.48
2:1Y:403:ALA:HA	1:2M:261:PRO:O	2.13	0.48
1:2C:241:SER:OG	1:2C:250:VAL:O	2.25	0.48
1:2D:180:ALA:HB3	1:2D:183:GLU:HG3	1.96	0.48
1:2E:251:ASP:HB2	1:2E:254:GLU:HG3	1.96	0.48
1:2I:132:LEU:HD23	1:2I:164:LYS:NZ	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2J:280:LYS:NZ	1:2K:90:GLU:OE2	2.39	0.48
2:2H:221:THR:HG1	1:3A:324:VAL:CG2	2.15	0.48
2:2P:3:GLU:HA	2:2P:51:VAL:HA	1.95	0.48
2:2Q:179:ASP:O	1:3D:352:LYS:HA	2.14	0.48
2:2R:71:GLU:HB2	1:3E:2:ARG:HD3	1.96	0.48
2:2W:157:ILE:O	2:2W:161:TYR:N	2.46	0.48
2:2W:178:SER:OG	1:3K:351:PHE:N	2.46	0.48
2:2W:180:THR:HB	2:2W:183:GLU:HB3	1.95	0.48
2:2W:406:HIS:CD2	1:3K:262:TYR:HA	2.49	0.48
2:2X:178:SER:O	1:3L:351:PHE:C	2.52	0.48
1:3D:180:ALA:HB3	1:3D:183:GLU:HG3	1.96	0.48
1:3I:132:LEU:HD23	1:3I:164:LYS:NZ	2.29	0.48
2:3P:3:GLU:HA	2:3P:51:VAL:HA	1.96	0.48
2:3Q:154:ILE:HG23	2:3Q:166:MET:HG2	1.95	0.48
2:3S:69:ASP:OD2	2:3S:74:THR:OG1	2.22	0.48
2:3W:157:ILE:O	2:3W:161:TYR:N	2.46	0.48
2:3X:3:GLU:HA	2:3X:51:VAL:HA	1.95	0.48
2:3X:53:TYR:O	2:3X:64:ARG:NH2	2.46	0.48
2:3Y:53:TYR:O	2:3Y:64:ARG:NH2	2.46	0.48
1:4I:132:LEU:HD23	1:4I:164:LYS:NZ	2.29	0.48
1:4J:251:ASP:HB2	1:4J:254:GLU:HG3	1.96	0.48
2:4P:3:GLU:HA	2:4P:51:VAL:HA	1.95	0.48
2:4W:180:THR:HB	2:4W:183:GLU:HB3	1.95	0.48
1:1A:251:ASP:HB2	1:1A:254:GLU:HG3	1.95	0.48
1:1A:324:VAL:HG13	2:4H:222:PRO:O	2.13	0.48
1:1C:253:THR:CA	2:4P:100:GLY:HA2	2.42	0.48
1:1F:257:THR:HG21	2:4S:101:ASN:O	2.14	0.48
1:1F:439:SER:HB2	2:4S:400:ARG:HD2	1.96	0.48
1:1G:132:LEU:HD23	1:1G:164:LYS:NZ	2.29	0.48
1:1G:326:LYS:HG2	2:4T:210:TYR:CD1	2.49	0.48
1:1I:132:LEU:HD23	1:1I:164:LYS:NZ	2.29	0.48
1:1K:251:ASP:HB2	1:1K:254:GLU:HG3	1.96	0.48
1:1M:261:PRO:HA	2:4Y:404:PHE:CA	2.34	0.48
2:1Q:53:TYR:O	2:1Q:64:ARG:NH2	2.45	0.48
2:1Q:154:ILE:HG23	2:1Q:166:MET:HG2	1.95	0.48
2:1V:404:PHE:CZ	1:2J:261:PRO:CD	2.97	0.48
2:1V:411:GLU:OE2	1:2J:163:LYS:NZ	2.47	0.48
2:1W:222:PRO:CD	1:2K:326:LYS:HB2	2.43	0.48
2:1X:11:GLN:OE1	1:2L:249:ASN:HB2	2.13	0.48
1:2A:251:ASP:HB2	1:2A:254:GLU:HG3	1.96	0.48
1:2G:311:LYS:H	1:2G:382:THR:HB	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2J:251:ASP:HB2	1:2J:254:GLU:HG3	1.96	0.48
2:2O:180:THR:CG2	1:3B:258:ASN:ND2	2.57	0.48
2:2P:96:GLN:OE1	1:3C:1:MET:O	2.32	0.48
2:2Q:154:ILE:HG23	2:2Q:166:MET:HG2	1.95	0.48
2:2S:401:ARG:NH2	1:3F:435:VAL:HA	2.28	0.48
2:2W:154:ILE:HG23	2:2W:166:MET:HG2	1.95	0.48
2:2W:404:PHE:HE1	1:3K:260:VAL:N	2.12	0.48
2:2X:178:SER:CB	1:3L:349:THR:HB	2.44	0.48
2:2X:404:PHE:CD2	1:3L:261:PRO:CA	2.96	0.48
2:2Y:178:SER:O	1:3M:351:PHE:C	2.51	0.48
1:3A:251:ASP:HB2	1:3A:254:GLU:HG3	1.96	0.48
1:3F:180:ALA:HB3	1:3F:183:GLU:HG3	1.96	0.48
1:3J:280:LYS:NZ	1:3K:90:GLU:OE2	2.38	0.48
1:3K:251:ASP:HB2	1:3K:254:GLU:HG3	1.96	0.48
2:3W:154:ILE:HG23	2:3W:166:MET:HG2	1.95	0.48
1:4A:251:ASP:HB2	1:4A:254:GLU:HG3	1.96	0.48
1:4E:251:ASP:HB2	1:4E:254:GLU:HG3	1.96	0.48
1:4G:180:ALA:HB3	1:4G:183:GLU:HG3	1.96	0.48
1:4G:311:LYS:H	1:4G:382:THR:HB	1.78	0.48
1:4K:251:ASP:HB2	1:4K:254:GLU:HG3	1.96	0.48
2:4Q:53:TYR:O	2:4Q:64:ARG:NH2	2.45	0.48
2:4W:157:ILE:O	2:4W:161:TYR:N	2.46	0.48
2:4Y:53:TYR:O	2:4Y:64:ARG:NH2	2.45	0.48
1:1B:263:PRO:HD3	2:4O:406:HIS:CB	2.38	0.48
1:1E:253:THR:HB	2:4R:100:GLY:HA2	1.96	0.48
1:1E:260:VAL:HG21	2:4R:407:TRP:HZ2	1.78	0.48
1:1F:180:ALA:HB3	1:1F:183:GLU:HG3	1.96	0.48
1:1F:346:TRP:CD2	2:4S:403:ALA:HB3	2.48	0.48
1:1G:180:ALA:HB3	1:1G:183:GLU:HG3	1.96	0.48
1:1J:251:ASP:HB2	1:1J:254:GLU:HG3	1.96	0.48
1:1J:280:LYS:NZ	1:1K:90:GLU:OE2	2.38	0.48
1:1K:311:LYS:H	1:1K:382:THR:HB	1.78	0.48
1:1L:2:ARG:HG3	2:4X:72:PRO:HG3	1.93	0.48
1:1L:261:PRO:CA	2:4X:404:PHE:HA	2.34	0.48
1:1L:348:PRO:HG3	2:4X:394:GLN:CA	2.44	0.48
1:1N:261:PRO:CB	2:4Z:404:PHE:CD1	2.96	0.48
2:1Y:224:TYR:CD2	1:2M:247:ALA:C	2.86	0.48
1:2F:180:ALA:HB3	1:2F:183:GLU:HG3	1.96	0.48
1:2G:132:LEU:HD23	1:2G:164:LYS:NZ	2.29	0.48
1:2G:180:ALA:HB3	1:2G:183:GLU:HG3	1.96	0.48
1:2K:251:ASP:HB2	1:2K:254:GLU:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2N:27:GLU:OE2	1:2N:236:SER:OG	2.22	0.48
2:2U:406:HIS:CE1	1:3I:263:PRO:CB	2.97	0.48
2:2U:407:TRP:NE1	1:3I:260:VAL:HB	2.28	0.48
1:3C:241:SER:OG	1:3C:250:VAL:O	2.25	0.48
1:3G:180:ALA:HB3	1:3G:183:GLU:HG3	1.96	0.48
1:3J:251:ASP:HB2	1:3J:254:GLU:HG3	1.96	0.48
1:3N:27:GLU:OE2	1:3N:236:SER:OG	2.22	0.48
1:4F:180:ALA:HB3	1:4F:183:GLU:HG3	1.96	0.48
1:4G:132:LEU:HD23	1:4G:164:LYS:NZ	2.29	0.48
2:4Q:154:ILE:HG23	2:4Q:166:MET:HG2	1.95	0.48
2:4W:154:ILE:HG23	2:4W:166:MET:HG2	1.95	0.48
2:4X:69:ASP:OD2	2:4X:74:THR:OG1	2.22	0.48
1:1C:241:SER:OG	1:1C:250:VAL:O	2.25	0.48
1:1E:247:ALA:HB1	2:4R:224:TYR:CD2	2.46	0.48
1:1K:262:TYR:CZ	2:4W:403:ALA:CA	2.90	0.48
1:1K:314:ALA:HB2	2:4W:181:VAL:HG11	1.95	0.48
1:1L:27:GLU:OE2	1:1L:236:SER:OG	2.22	0.48
1:1N:261:PRO:CD	2:4Z:404:PHE:CE1	2.97	0.48
2:1Q:180:THR:HB	2:1Q:183:GLU:HB3	1.95	0.48
2:1S:69:ASP:OD2	2:1S:74:THR:OG1	2.22	0.48
2:1S:404:PHE:CZ	1:2F:261:PRO:N	2.82	0.48
2:1W:11:GLN:HE22	1:2K:249:ASN:CG	2.16	0.48
2:1Z:157:ILE:O	2:1Z:161:TYR:N	2.46	0.48
1:2K:311:LYS:H	1:2K:382:THR:HB	1.77	0.48
2:2Q:53:TYR:O	2:2Q:64:ARG:NH2	2.45	0.48
2:2Y:180:THR:HB	2:2Y:183:GLU:HB3	1.95	0.48
2:2Z:157:ILE:O	2:2Z:161:TYR:N	2.46	0.48
1:3G:132:LEU:HD23	1:3G:164:LYS:NZ	2.29	0.48
1:3G:311:LYS:H	1:3G:382:THR:HB	1.78	0.48
1:3N:195:LEU:HD21	1:3N:264:ARG:HE	1.79	0.48
2:3Q:53:TYR:O	2:3Q:64:ARG:NH2	2.46	0.48
2:3Z:157:ILE:O	2:3Z:161:TYR:N	2.46	0.48
1:4K:311:LYS:H	1:4K:382:THR:HB	1.77	0.48
1:4L:195:LEU:HD21	1:4L:264:ARG:HE	1.79	0.48
1:4M:195:LEU:HD21	1:4M:264:ARG:HE	1.79	0.48
1:4N:27:GLU:OE2	1:4N:236:SER:OG	2.22	0.48
2:4Y:180:THR:HB	2:4Y:183:GLU:HB3	1.95	0.48
1:1A:195:LEU:HD21	1:1A:264:ARG:HE	1.79	0.47
1:1A:261:PRO:HA	2:4H:404:PHE:CB	2.44	0.47
1:1B:79:ARG:NH2	1:1B:92:LEU:O	2.41	0.47
1:1D:325:PRO:CD	2:4Q:223:THR:HA	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1F:251:ASP:HB2	1:1F:254:GLU:HG3	1.96	0.47
1:1F:326:LYS:HG2	2:4S:210:TYR:CD1	2.49	0.47
1:1G:311:LYS:H	1:1G:382:THR:HB	1.78	0.47
1:1J:254:GLU:N	2:4V:100:GLY:HA2	2.29	0.47
1:1K:324:VAL:CG1	2:4W:222:PRO:O	2.62	0.47
1:1K:348:PRO:CG	2:4W:394:GLN:CB	2.92	0.47
1:1L:348:PRO:CG	2:4X:394:GLN:CB	2.92	0.47
2:1Q:3:GLU:HA	2:1Q:51:VAL:HA	1.95	0.47
1:2A:195:LEU:HD21	1:2A:264:ARG:HE	1.79	0.47
1:2J:195:LEU:HD21	1:2J:264:ARG:HE	1.79	0.47
1:2K:195:LEU:HD21	1:2K:264:ARG:HE	1.79	0.47
1:2L:195:LEU:HD21	1:2L:264:ARG:HE	1.79	0.47
1:2L:251:ASP:HB2	1:2L:254:GLU:HG3	1.96	0.47
1:2M:132:LEU:HD23	1:2M:164:LYS:HZ3	1.79	0.47
1:2M:195:LEU:HD21	1:2M:264:ARG:HE	1.79	0.47
2:2Q:3:GLU:HA	2:2Q:51:VAL:HA	1.95	0.47
2:2Q:180:THR:HB	2:2Q:183:GLU:HB3	1.95	0.47
2:2Q:394:GLN:OE1	1:3D:349:THR:HG23	2.13	0.47
2:2T:157:ILE:O	2:2T:161:TYR:N	2.46	0.47
2:2W:3:GLU:HA	2:2W:51:VAL:HA	1.95	0.47
2:2X:69:ASP:OD2	2:2X:74:THR:OG1	2.22	0.47
2:2Y:11:GLN:CD	1:3M:249:ASN:H	2.17	0.47
2:2Y:73:GLY:HA3	1:3M:2:ARG:CZ	2.44	0.47
2:2Y:178:SER:HB3	1:3M:349:THR:HA	1.95	0.47
1:3B:79:ARG:NH2	1:3B:92:LEU:O	2.41	0.47
1:3K:311:LYS:H	1:3K:382:THR:HB	1.78	0.47
1:3M:132:LEU:HD23	1:3M:164:LYS:HZ3	1.79	0.47
2:3Q:180:THR:HB	2:3Q:183:GLU:HB3	1.95	0.47
2:3T:157:ILE:O	2:3T:161:TYR:N	2.46	0.47
2:3W:3:GLU:HA	2:3W:51:VAL:HA	1.95	0.47
2:3Y:180:THR:HB	2:3Y:183:GLU:HB3	1.95	0.47
1:4A:195:LEU:HD21	1:4A:264:ARG:HE	1.79	0.47
1:4I:251:ASP:HB2	1:4I:254:GLU:HG3	1.96	0.47
1:4L:251:ASP:HB2	1:4L:254:GLU:HG3	1.96	0.47
1:4M:132:LEU:HD23	1:4M:164:LYS:HZ3	1.79	0.47
1:4N:195:LEU:HD21	1:4N:264:ARG:HE	1.79	0.47
2:4Q:3:GLU:HA	2:4Q:51:VAL:HA	1.95	0.47
2:4Z:157:ILE:O	2:4Z:161:TYR:N	2.46	0.47
1:1A:262:TYR:CE1	2:4H:402:LYS:O	2.67	0.47
1:1D:2:ARG:HH11	2:4Q:71:GLU:HB2	1.79	0.47
1:1D:262:TYR:OH	2:4Q:402:LYS:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:132:LEU:HD23	1:1E:164:LYS:HZ3	1.79	0.47
1:1E:349:THR:CB	2:4R:184:PRO:CD	2.76	0.47
1:1F:132:LEU:HD23	1:1F:164:LYS:NZ	2.29	0.47
1:1F:257:THR:CG2	2:4S:102:ASN:HB2	2.43	0.47
1:1F:336:LYS:HD3	2:4S:176:LYS:O	2.14	0.47
1:1G:258:ASN:HD21	2:4T:101:ASN:ND2	2.10	0.47
1:1K:132:LEU:HD23	1:1K:164:LYS:NZ	2.29	0.47
1:1K:195:LEU:HD21	1:1K:264:ARG:HE	1.79	0.47
1:1L:195:LEU:HD21	1:1L:264:ARG:HE	1.79	0.47
1:1L:251:ASP:HB2	1:1L:254:GLU:HG3	1.96	0.47
1:1L:251:ASP:OD2	2:4X:71:GLU:HB3	2.14	0.47
1:1L:261:PRO:O	2:4X:406:HIS:HD2	1.95	0.47
1:1N:195:LEU:HD21	1:1N:264:ARG:HE	1.79	0.47
2:1O:214:PHE:CD1	1:2B:326:LYS:HE2	2.49	0.47
2:1R:3:GLU:HA	2:1R:51:VAL:HA	1.95	0.47
2:1S:404:PHE:CE2	1:2F:261:PRO:HA	2.48	0.47
2:1T:157:ILE:O	2:1T:161:TYR:N	2.46	0.47
2:1W:3:GLU:HA	2:1W:51:VAL:HA	1.96	0.47
2:1Y:180:THR:HB	2:1Y:183:GLU:HB3	1.95	0.47
2:1Y:394:GLN:CD	1:2M:349:THR:CG2	2.82	0.47
1:2B:79:ARG:NH2	1:2B:92:LEU:O	2.41	0.47
1:2F:334:THR:O	1:2F:337:THR:OG1	2.32	0.47
1:2I:251:ASP:HB2	1:2I:254:GLU:HG3	1.96	0.47
1:2K:132:LEU:HD23	1:2K:164:LYS:NZ	2.29	0.47
1:2L:27:GLU:OE2	1:2L:236:SER:OG	2.22	0.47
1:2N:195:LEU:HD21	1:2N:264:ARG:HE	1.80	0.47
2:2P:404:PHE:CE1	1:3C:260:VAL:C	2.87	0.47
2:2R:181:VAL:HG11	1:3E:314:ALA:CB	2.44	0.47
2:2S:101:ASN:N	1:3F:254:GLU:HG2	2.29	0.47
2:2U:403:ALA:HB1	1:3I:261:PRO:HB2	1.95	0.47
2:2V:403:ALA:CB	1:3J:262:TYR:OH	2.46	0.47
5:2V:501:GDP:C8	1:3J:248:LEU:CD1	2.95	0.47
2:2X:401:ARG:NH2	1:3L:434:GLU:C	2.56	0.47
1:3E:132:LEU:HD23	1:3E:164:LYS:HZ3	1.79	0.47
1:3F:251:ASP:HB2	1:3F:254:GLU:HG3	1.96	0.47
1:3F:334:THR:O	1:3F:337:THR:OG1	2.32	0.47
1:3K:132:LEU:HD23	1:3K:164:LYS:NZ	2.29	0.47
1:3K:195:LEU:HD21	1:3K:264:ARG:HE	1.79	0.47
1:3L:27:GLU:OE2	1:3L:236:SER:OG	2.22	0.47
1:3L:195:LEU:HD21	1:3L:264:ARG:HE	1.79	0.47
2:3Q:3:GLU:HA	2:3Q:51:VAL:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4J:195:LEU:HD21	1:4J:264:ARG:HE	1.79	0.47
1:4K:132:LEU:HD23	1:4K:164:LYS:NZ	2.29	0.47
1:4K:195:LEU:HD21	1:4K:264:ARG:HE	1.79	0.47
1:1C:79:ARG:NH2	1:1C:92:LEU:O	2.41	0.47
1:1F:334:THR:O	1:1F:337:THR:OG1	2.32	0.47
1:1I:251:ASP:HB2	1:1I:254:GLU:HG3	1.96	0.47
1:1J:195:LEU:HD21	1:1J:264:ARG:HE	1.79	0.47
1:1K:346:TRP:CE3	2:4W:403:ALA:CB	2.95	0.47
1:1K:349:THR:CG2	2:4W:184:PRO:CD	2.89	0.47
1:1K:349:THR:OG1	2:4W:184:PRO:HD3	2.14	0.47
1:1M:195:LEU:HD21	1:1M:264:ARG:HE	1.79	0.47
1:1N:261:PRO:HB3	2:4Z:404:PHE:CD1	2.48	0.47
2:1H:180:THR:HB	2:1H:183:GLU:HB3	1.95	0.47
2:1Q:100:GLY:HA2	1:2D:253:THR:CG2	2.44	0.47
2:1T:394:GLN:HG2	1:2G:348:PRO:CG	2.43	0.47
2:1U:406:HIS:CD2	1:2I:263:PRO:CD	2.90	0.47
2:1Y:11:GLN:HE22	1:2M:249:ASN:HB2	1.78	0.47
1:2E:132:LEU:HD23	1:2E:164:LYS:HZ3	1.79	0.47
1:2F:251:ASP:HB2	1:2F:254:GLU:HG3	1.96	0.47
2:2H:222:PRO:HD2	1:3A:326:LYS:CB	2.44	0.47
2:2O:221:THR:C	1:3B:324:VAL:HG11	2.34	0.47
2:2O:403:ALA:HA	1:3B:262:TYR:CZ	2.48	0.47
2:2O:404:PHE:CD1	1:3B:260:VAL:C	2.87	0.47
2:2O:406:HIS:NE2	1:3B:262:TYR:C	2.67	0.47
2:2R:394:GLN:OE1	1:3E:349:THR:HG23	2.13	0.47
2:2U:404:PHE:HE2	1:3I:346:TRP:CH2	2.32	0.47
2:2V:406:HIS:CE1	1:3J:263:PRO:HA	2.49	0.47
2:2X:221:THR:HG1	1:3L:324:VAL:CG2	2.05	0.47
1:3A:195:LEU:HD21	1:3A:264:ARG:HE	1.79	0.47
1:3B:132:LEU:HD23	1:3B:164:LYS:NZ	2.29	0.47
1:3D:132:LEU:HD23	1:3D:164:LYS:NZ	2.29	0.47
1:3I:251:ASP:HB2	1:3I:254:GLU:HG3	1.96	0.47
1:3J:195:LEU:HD21	1:3J:264:ARG:HE	1.79	0.47
1:3L:251:ASP:HB2	1:3L:254:GLU:HG3	1.96	0.47
1:3M:195:LEU:HD21	1:3M:264:ARG:HE	1.80	0.47
1:4B:79:ARG:NH2	1:4B:92:LEU:O	2.41	0.47
1:4F:132:LEU:HD23	1:4F:164:LYS:NZ	2.29	0.47
1:4F:251:ASP:HB2	1:4F:254:GLU:HG3	1.96	0.47
1:4F:334:THR:O	1:4F:337:THR:OG1	2.32	0.47
1:4L:27:GLU:OE2	1:4L:236:SER:OG	2.23	0.47
2:4H:154:ILE:HG23	2:4H:166:MET:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4Q:180:THR:HB	2:4Q:183:GLU:HB3	1.95	0.47
2:4T:157:ILE:O	2:4T:161:TYR:N	2.46	0.47
2:4W:3:GLU:HA	2:4W:51:VAL:HA	1.96	0.47
1:1B:195:LEU:HD21	1:1B:264:ARG:HE	1.79	0.47
1:1B:262:TYR:CZ	2:4O:403:ALA:N	2.83	0.47
1:1B:263:PRO:HB3	2:4O:406:HIS:ND1	2.29	0.47
1:1B:332:ILE:HB	2:4O:177:VAL:HG21	1.97	0.47
1:1D:132:LEU:HD23	1:1D:164:LYS:NZ	2.29	0.47
1:1F:245:ASP:CG	2:4S:77:SER:CB	2.73	0.47
1:1F:251:ASP:OD2	2:4S:71:GLU:HB3	2.14	0.47
1:1G:248:LEU:C	2:4T:11:GLN:NE2	2.47	0.47
1:1I:247:ALA:O	2:4U:15:GLN:CD	2.52	0.47
1:1J:180:ALA:HB3	1:1J:183:GLU:HG3	1.96	0.47
1:1N:329:ASN:CB	2:4Z:210:TYR:CD2	2.97	0.47
2:1H:154:ILE:HG23	2:1H:166:MET:HG2	1.95	0.47
2:1H:394:GLN:HG2	1:2A:348:PRO:HG2	1.95	0.47
2:1R:220:THR:O	1:2E:326:LYS:HD2	2.14	0.47
2:1T:404:PHE:HE1	1:2G:260:VAL:C	2.15	0.47
1:2B:132:LEU:HD23	1:2B:164:LYS:NZ	2.29	0.47
1:2C:79:ARG:NH2	1:2C:92:LEU:O	2.41	0.47
1:2D:132:LEU:HD23	1:2D:164:LYS:NZ	2.29	0.47
1:2F:132:LEU:HD23	1:2F:164:LYS:NZ	2.29	0.47
2:2H:154:ILE:HG23	2:2H:166:MET:HG2	1.95	0.47
2:2H:223:THR:HA	1:3A:325:PRO:CD	2.43	0.47
2:2R:3:GLU:HA	2:2R:51:VAL:HA	1.95	0.47
2:2R:336:GLN:HE22	2:2R:349:ASN:H	1.62	0.47
2:2R:406:HIS:CG	1:3E:263:PRO:CD	2.87	0.47
2:2T:3:GLU:HA	2:2T:51:VAL:HA	1.95	0.47
2:2T:394:GLN:OE1	1:3G:349:THR:CG2	2.62	0.47
2:2T:404:PHE:CG	1:3G:261:PRO:HB3	2.42	0.47
2:2W:100:GLY:HA3	1:3K:253:THR:HG21	1.89	0.47
2:2Y:336:GLN:HE22	2:2Y:349:ASN:H	1.62	0.47
1:3C:180:ALA:HB3	1:3C:183:GLU:HG3	1.96	0.47
1:3F:132:LEU:HD23	1:3F:164:LYS:NZ	2.29	0.47
2:3H:154:ILE:HG23	2:3H:166:MET:HG2	1.95	0.47
2:3P:154:ILE:HG23	2:3P:166:MET:HG2	1.95	0.47
2:3V:3:GLU:HA	2:3V:51:VAL:HA	1.95	0.47
1:4B:132:LEU:HD23	1:4B:164:LYS:NZ	2.29	0.47
1:4C:79:ARG:NH2	1:4C:92:LEU:O	2.41	0.47
1:4G:79:ARG:NH2	1:4G:92:LEU:O	2.41	0.47
1:4J:180:ALA:HB3	1:4J:183:GLU:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4V:3:GLU:HA	2:4V:51:VAL:HA	1.95	0.47
1:1A:261:PRO:C	2:4H:404:PHE:HA	2.35	0.47
1:1B:132:LEU:HD23	1:1B:164:LYS:NZ	2.29	0.47
1:1B:435:VAL:CA	2:4O:401:ARG:NH2	2.77	0.47
1:1C:263:PRO:HB3	2:4P:406:HIS:ND1	2.29	0.47
1:1C:439:SER:CB	2:4P:400:ARG:HD2	2.45	0.47
1:1E:259:LEU:C	2:4R:404:PHE:HE1	2.18	0.47
1:1E:348:PRO:HG2	2:4R:394:GLN:CG	2.32	0.47
1:1G:79:ARG:NH2	1:1G:92:LEU:O	2.41	0.47
1:1K:346:TRP:CH2	2:4W:403:ALA:HB1	2.50	0.47
1:1L:132:LEU:HD23	1:1L:164:LYS:NZ	2.29	0.47
1:1L:349:THR:OG1	2:4X:184:PRO:HD3	2.14	0.47
1:1N:333:ALA:HB1	2:4Z:176:LYS:CE	2.38	0.47
2:1Q:336:GLN:HE22	2:1Q:349:ASN:H	1.63	0.47
2:1R:336:GLN:HE22	2:1R:349:ASN:H	1.62	0.47
2:1U:222:PRO:CD	1:2I:326:LYS:CB	2.81	0.47
2:1V:224:TYR:CZ	1:2J:248:LEU:HB2	2.47	0.47
2:1X:154:ILE:HG23	2:1X:166:MET:HG2	1.95	0.47
1:2J:180:ALA:HB3	1:2J:183:GLU:HG3	1.96	0.47
1:2L:132:LEU:HD23	1:2L:164:LYS:NZ	2.29	0.47
2:2H:180:THR:HB	2:2H:183:GLU:HB3	1.95	0.47
2:2P:154:ILE:HG23	2:2P:166:MET:HG2	1.95	0.47
2:2P:214:PHE:CG	1:3C:326:LYS:HE3	2.50	0.47
2:2P:406:HIS:CD2	1:3C:262:TYR:HA	2.49	0.47
2:2Q:336:GLN:HE22	2:2Q:349:ASN:H	1.62	0.47
2:2R:12:CYS:HG	2:2R:140:SER:HG	1.58	0.47
5:2R:501:GDP:C8	1:3E:248:LEU:CD1	2.94	0.47
2:2V:3:GLU:HA	2:2V:51:VAL:HA	1.95	0.47
2:2V:178:SER:CB	1:3J:349:THR:CA	2.92	0.47
2:2W:210:TYR:CE2	1:3K:329:ASN:HB2	2.50	0.47
2:2X:154:ILE:HG23	2:2X:166:MET:HG2	1.95	0.47
2:2Z:101:ASN:HB2	1:3N:254:GLU:CG	2.45	0.47
1:3B:195:LEU:HD21	1:3B:264:ARG:HE	1.79	0.47
1:3C:79:ARG:NH2	1:3C:92:LEU:O	2.41	0.47
1:3J:180:ALA:HB3	1:3J:183:GLU:HG3	1.96	0.47
1:3M:251:ASP:HB2	1:3M:254:GLU:HG3	1.95	0.47
2:3H:180:THR:HB	2:3H:183:GLU:HB3	1.95	0.47
2:3R:3:GLU:HA	2:3R:51:VAL:HA	1.95	0.47
2:3R:12:CYS:HG	2:3R:140:SER:HG	1.58	0.47
2:3R:336:GLN:HE22	2:3R:349:ASN:H	1.62	0.47
2:3T:3:GLU:HA	2:3T:51:VAL:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3X:154:ILE:HG23	2:3X:166:MET:HG2	1.95	0.47
2:3X:336:GLN:HE22	2:3X:349:ASN:H	1.62	0.47
2:3Z:154:ILE:HG23	2:3Z:166:MET:HG2	1.95	0.47
1:4B:195:LEU:HD21	1:4B:264:ARG:HE	1.79	0.47
1:4D:132:LEU:HD23	1:4D:164:LYS:NZ	2.29	0.47
1:4E:180:ALA:HB3	1:4E:183:GLU:HG3	1.96	0.47
1:4J:132:LEU:HD23	1:4J:164:LYS:NZ	2.29	0.47
1:4L:132:LEU:HD23	1:4L:164:LYS:NZ	2.29	0.47
2:4P:154:ILE:HG23	2:4P:166:MET:HG2	1.95	0.47
2:4R:3:GLU:HA	2:4R:51:VAL:HA	1.95	0.47
2:4R:336:GLN:HE22	2:4R:349:ASN:H	1.62	0.47
2:4X:336:GLN:HE22	2:4X:349:ASN:H	1.62	0.47
2:4Y:336:GLN:HE22	2:4Y:349:ASN:H	1.62	0.47
1:1A:261:PRO:HD3	2:4H:404:PHE:CZ	2.49	0.47
1:1C:180:ALA:HB3	1:1C:183:GLU:HG3	1.96	0.47
1:1E:261:PRO:N	2:4R:404:PHE:CD1	2.82	0.47
1:1F:346:TRP:CE2	2:4S:403:ALA:CB	2.97	0.47
1:1F:346:TRP:HZ3	2:4S:404:PHE:HD2	1.62	0.47
1:1I:195:LEU:HD21	1:1I:264:ARG:HE	1.79	0.47
1:1K:283:HIS:CE1	1:1L:87:PHE:O	2.68	0.47
1:1M:251:ASP:HB2	1:1M:254:GLU:HG3	1.96	0.47
1:1N:349:THR:OG1	2:4Z:184:PRO:CD	2.62	0.47
2:1P:154:ILE:HG23	2:1P:166:MET:HG2	1.95	0.47
2:1V:3:GLU:HA	2:1V:51:VAL:HA	1.95	0.47
2:1V:101:ASN:O	1:2J:257:THR:HG21	2.15	0.47
2:1X:336:GLN:HE22	2:1X:349:ASN:H	1.62	0.47
2:1Y:336:GLN:HE22	2:1Y:349:ASN:H	1.62	0.47
1:2B:195:LEU:HD21	1:2B:264:ARG:HE	1.79	0.47
1:2C:132:LEU:HD23	1:2C:164:LYS:NZ	2.29	0.47
1:2C:180:ALA:HB3	1:2C:183:GLU:HG3	1.96	0.47
1:2E:180:ALA:HB3	1:2E:183:GLU:HG3	1.96	0.47
1:2E:195:LEU:HD21	1:2E:264:ARG:HE	1.79	0.47
1:2G:79:ARG:NH2	1:2G:92:LEU:O	2.41	0.47
1:2I:195:LEU:HD21	1:2I:264:ARG:HE	1.79	0.47
1:2J:132:LEU:HD23	1:2J:164:LYS:NZ	2.29	0.47
1:2K:283:HIS:CE1	1:2L:87:PHE:O	2.68	0.47
1:2M:251:ASP:HB2	1:2M:254:GLU:HG3	1.96	0.47
2:2Q:221:THR:C	1:3D:324:VAL:HG11	2.35	0.47
2:2R:404:PHE:HE1	1:3E:260:VAL:N	2.13	0.47
2:2S:178:SER:O	1:3F:351:PHE:O	2.32	0.47
5:2S:501:GDP:H8	1:3F:248:LEU:CD1	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2V:394:GLN:HG2	1:3J:348:PRO:CB	2.42	0.47
2:2V:406:HIS:NE2	1:3J:262:TYR:CA	2.78	0.47
2:2X:394:GLN:OE1	1:3L:349:THR:CG2	2.62	0.47
2:2Y:154:ILE:HG23	2:2Y:166:MET:HG2	1.95	0.47
2:2Y:406:HIS:ND1	1:3M:263:PRO:HB3	2.29	0.47
2:2Z:154:ILE:HG23	2:2Z:166:MET:HG2	1.95	0.47
2:2Z:336:GLN:HE22	2:2Z:349:ASN:H	1.62	0.47
1:3C:132:LEU:HD23	1:3C:164:LYS:NZ	2.29	0.47
1:3E:195:LEU:HD21	1:3E:264:ARG:HE	1.79	0.47
1:3G:79:ARG:NH2	1:3G:92:LEU:O	2.41	0.47
1:3I:195:LEU:HD21	1:3I:264:ARG:HE	1.79	0.47
1:3K:283:HIS:CE1	1:3L:87:PHE:O	2.68	0.47
1:3L:79:ARG:NH2	1:3L:92:LEU:O	2.41	0.47
1:3L:132:LEU:HD23	1:3L:164:LYS:NZ	2.29	0.47
2:3Q:336:GLN:HE22	2:3Q:349:ASN:H	1.63	0.47
2:3Y:336:GLN:HE22	2:3Y:349:ASN:H	1.62	0.47
2:3Z:336:GLN:HE22	2:3Z:349:ASN:H	1.62	0.47
1:4C:132:LEU:HD23	1:4C:164:LYS:NZ	2.29	0.47
1:4E:195:LEU:HD21	1:4E:264:ARG:HE	1.79	0.47
2:4H:180:THR:HB	2:4H:183:GLU:HB3	1.95	0.47
2:4Q:336:GLN:HE22	2:4Q:349:ASN:H	1.63	0.47
2:4T:3:GLU:HA	2:4T:51:VAL:HA	1.96	0.47
2:4X:154:ILE:HG23	2:4X:166:MET:HG2	1.95	0.47
2:4Y:154:ILE:HG23	2:4Y:166:MET:HG2	1.95	0.47
2:4Z:154:ILE:HG23	2:4Z:166:MET:HG2	1.95	0.47
2:4Z:336:GLN:HE22	2:4Z:349:ASN:H	1.62	0.47
1:1A:87:PHE:O	1:1N:283:HIS:CE1	2.68	0.47
1:1A:132:LEU:HD23	1:1A:164:LYS:NZ	2.29	0.47
1:1A:180:ALA:HB3	1:1A:183:GLU:HG3	1.96	0.47
1:1A:262:TYR:OH	2:4H:403:ALA:CB	2.59	0.47
1:1A:283:HIS:CE1	1:1B:87:PHE:O	2.68	0.47
1:1C:132:LEU:HD23	1:1C:164:LYS:NZ	2.29	0.47
1:1C:254:GLU:HA	2:4P:100:GLY:O	2.14	0.47
1:1E:180:ALA:HB3	1:1E:183:GLU:HG3	1.96	0.47
1:1E:195:LEU:HD21	1:1E:264:ARG:HE	1.79	0.47
1:1E:439:SER:CB	2:4R:400:ARG:HD2	2.44	0.47
1:1F:262:TYR:CE2	2:4S:403:ALA:CB	2.97	0.47
1:1G:283:HIS:CE1	1:1I:87:PHE:O	2.68	0.47
1:1G:329:ASN:ND2	2:4T:207:GLU:OE1	2.48	0.47
1:1G:349:THR:HG23	2:4T:184:PRO:HG3	1.96	0.47
1:1I:283:HIS:CE1	1:1J:87:PHE:O	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1J:132:LEU:HD23	1:1J:164:LYS:NZ	2.29	0.47
1:1J:332:ILE:HB	2:4V:177:VAL:CG2	2.44	0.47
1:1K:258:ASN:OD1	2:4W:101:ASN:CB	2.62	0.47
1:1L:79:ARG:NH2	1:1L:92:LEU:O	2.41	0.47
1:1L:326:LYS:CE	2:4X:214:PHE:HB2	2.45	0.47
1:1M:2:ARG:CD	2:4Y:72:PRO:CD	2.79	0.47
1:1M:326:LYS:CB	2:4Y:222:PRO:CG	2.88	0.47
1:1N:132:LEU:HD23	1:1N:164:LYS:NZ	2.29	0.47
2:1O:154:ILE:HG23	2:1O:166:MET:HG2	1.95	0.47
2:1P:336:GLN:HE22	2:1P:349:ASN:H	1.62	0.47
2:1R:178:SER:HB3	1:2E:349:THR:CG2	2.45	0.47
2:1S:36:TYR:OH	2:1S:40:SER:O	2.33	0.47
2:1S:394:GLN:HG2	1:2F:348:PRO:HG3	1.95	0.47
2:1T:3:GLU:HA	2:1T:51:VAL:HA	1.96	0.47
2:1W:404:PHE:CZ	1:2K:261:PRO:CD	2.98	0.47
2:1X:394:GLN:NE2	1:2L:349:THR:CG2	2.77	0.47
2:1Y:154:ILE:HG23	2:1Y:166:MET:HG2	1.95	0.47
2:1Z:154:ILE:HG23	2:1Z:166:MET:HG2	1.95	0.47
2:1Z:336:GLN:HE22	2:1Z:349:ASN:H	1.62	0.47
1:2A:87:PHE:O	1:2N:283:HIS:CE1	2.68	0.47
1:2A:132:LEU:HD23	1:2A:164:LYS:NZ	2.29	0.47
1:2A:283:HIS:CE1	1:2B:87:PHE:O	2.68	0.47
1:2G:251:ASP:HB2	1:2G:254:GLU:HG3	1.96	0.47
1:2I:283:HIS:CE1	1:2J:87:PHE:O	2.68	0.47
1:2L:79:ARG:NH2	1:2L:92:LEU:O	2.41	0.47
1:2N:132:LEU:HD23	1:2N:164:LYS:NZ	2.29	0.47
1:2N:251:ASP:HB2	1:2N:254:GLU:HG3	1.96	0.47
2:2O:154:ILE:HG23	2:2O:166:MET:HG2	1.95	0.47
2:2P:180:THR:N	1:3C:351:PHE:O	2.48	0.47
2:2P:221:THR:CA	1:3C:324:VAL:HG11	2.44	0.47
2:2R:404:PHE:CE2	1:3E:261:PRO:CB	2.76	0.47
2:2R:406:HIS:CD2	1:3E:262:TYR:CA	2.98	0.47
2:2R:406:HIS:NE2	1:3E:262:TYR:CA	2.77	0.47
2:2S:36:TYR:OH	2:2S:40:SER:O	2.33	0.47
2:2W:404:PHE:CD2	1:3K:261:PRO:CA	2.98	0.47
2:2W:404:PHE:CA	1:3K:261:PRO:HA	2.45	0.47
2:2X:336:GLN:HE22	2:2X:349:ASN:H	1.63	0.47
2:2X:407:TRP:HE1	1:3L:260:VAL:HB	1.79	0.47
2:2Y:404:PHE:CD2	1:3M:261:PRO:CA	2.97	0.47
2:2Z:72:PRO:HD2	1:3N:2:ARG:CD	2.44	0.47
2:2Z:180:THR:HB	2:2Z:183:GLU:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Z:404:PHE:CZ	1:3N:261:PRO:CD	2.97	0.47
1:3A:87:PHE:O	1:3N:283:HIS:CE1	2.68	0.47
1:3A:132:LEU:HD23	1:3A:164:LYS:NZ	2.29	0.47
1:3A:283:HIS:CE1	1:3B:87:PHE:O	2.68	0.47
1:3B:283:HIS:CE1	1:3C:87:PHE:O	2.68	0.47
1:3E:180:ALA:HB3	1:3E:183:GLU:HG3	1.96	0.47
1:3I:283:HIS:CE1	1:3J:87:PHE:O	2.68	0.47
1:3J:132:LEU:HD23	1:3J:164:LYS:NZ	2.29	0.47
1:3N:132:LEU:HD23	1:3N:164:LYS:NZ	2.29	0.47
1:3N:251:ASP:HB2	1:3N:254:GLU:HG3	1.95	0.47
2:3S:36:TYR:OH	2:3S:40:SER:O	2.33	0.47
2:3Y:154:ILE:HG23	2:3Y:166:MET:HG2	1.95	0.47
1:4A:87:PHE:O	1:4N:283:HIS:CE1	2.68	0.47
1:4A:132:LEU:HD23	1:4A:164:LYS:NZ	2.29	0.47
1:4A:283:HIS:CE1	1:4B:87:PHE:O	2.68	0.47
1:4B:283:HIS:CE1	1:4C:87:PHE:O	2.68	0.47
1:4C:180:ALA:HB3	1:4C:183:GLU:HG3	1.96	0.47
1:4G:251:ASP:HB2	1:4G:254:GLU:HG3	1.96	0.47
1:4I:195:LEU:HD21	1:4I:264:ARG:HE	1.80	0.47
1:4K:283:HIS:CE1	1:4L:87:PHE:O	2.68	0.47
1:4L:79:ARG:NH2	1:4L:92:LEU:O	2.41	0.47
1:4L:241:SER:OG	1:4L:250:VAL:O	2.25	0.47
1:4M:251:ASP:HB2	1:4M:254:GLU:HG3	1.96	0.47
1:4N:251:ASP:HB2	1:4N:254:GLU:HG3	1.96	0.47
2:4H:69:ASP:OD2	2:4H:74:THR:OG1	2.22	0.47
2:4O:154:ILE:HG23	2:4O:166:MET:HG2	1.95	0.47
2:4S:36:TYR:OH	2:4S:40:SER:O	2.33	0.47
1:1A:326:LYS:HA	2:4H:210:TYR:CD1	2.49	0.47
1:1B:283:HIS:CE1	1:1C:87:PHE:O	2.68	0.47
1:1F:2:ARG:NH2	2:4S:73:GLY:HA3	2.30	0.47
1:1F:254:GLU:HG2	2:4S:100:GLY:C	2.34	0.47
1:1F:263:PRO:N	2:4S:406:HIS:CG	2.82	0.47
1:1G:251:ASP:HB2	1:1G:254:GLU:HG3	1.96	0.47
1:1J:283:HIS:CE1	1:1K:87:PHE:O	2.68	0.47
1:1K:180:ALA:HB3	1:1K:183:GLU:HG3	1.96	0.47
1:1K:351:PHE:O	2:4W:180:THR:HA	2.13	0.47
1:1N:441:GLU:O	2:4Z:400:ARG:NH1	2.47	0.47
2:1Q:339:ASN:HB3	2:1Q:342:TYR:HB2	1.97	0.47
2:1R:12:CYS:HG	2:1R:140:SER:HG	1.58	0.47
2:1R:157:ILE:O	2:1R:161:TYR:N	2.46	0.47
2:1S:336:GLN:HE22	2:1S:349:ASN:H	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1T:180:THR:HA	1:2G:258:ASN:ND2	2.29	0.47
2:1W:401:ARG:O	1:2K:262:TYR:HE1	1.98	0.47
2:1Y:182:VAL:HG22	1:2M:257:THR:HG22	1.96	0.47
2:1Z:180:THR:HB	2:1Z:183:GLU:HB3	1.95	0.47
1:2A:180:ALA:HB3	1:2A:183:GLU:HG3	1.96	0.47
1:2B:283:HIS:CE1	1:2C:87:PHE:O	2.68	0.47
1:2F:195:LEU:HD21	1:2F:264:ARG:HE	1.79	0.47
1:2G:283:HIS:CE1	1:2I:87:PHE:O	2.68	0.47
1:2J:283:HIS:CE1	1:2K:87:PHE:O	2.68	0.47
2:2H:101:ASN:HB2	1:3A:254:GLU:CB	2.45	0.47
2:2H:181:VAL:N	1:3A:258:ASN:ND2	2.62	0.47
2:2O:177:VAL:CG2	1:3B:332:ILE:HG21	2.43	0.47
2:2P:336:GLN:HE22	2:2P:349:ASN:H	1.62	0.47
2:2Q:222:PRO:C	1:3D:324:VAL:HG13	2.35	0.47
2:2Q:339:ASN:HB3	2:2Q:342:TYR:HB2	1.97	0.47
2:2S:336:GLN:HE22	2:2S:349:ASN:H	1.62	0.47
2:2S:404:PHE:CE1	1:3F:261:PRO:CD	2.98	0.47
2:2T:101:ASN:ND2	1:3G:258:ASN:ND2	2.62	0.47
2:2T:401:ARG:O	1:3G:262:TYR:OH	2.27	0.47
2:2U:3:GLU:HA	2:2U:51:VAL:HA	1.95	0.47
2:2V:403:ALA:HB1	1:3J:261:PRO:HB2	1.96	0.47
2:2Z:11:GLN:OE1	1:3N:249:ASN:HB2	2.15	0.47
1:3A:180:ALA:HB3	1:3A:183:GLU:HG3	1.96	0.47
1:3G:251:ASP:HB2	1:3G:254:GLU:HG3	1.96	0.47
1:3G:283:HIS:CE1	1:3I:87:PHE:O	2.68	0.47
2:3O:154:ILE:HG23	2:3O:166:MET:HG2	1.95	0.47
2:3P:336:GLN:HE22	2:3P:349:ASN:H	1.62	0.47
2:3U:3:GLU:HA	2:3U:51:VAL:HA	1.95	0.47
2:3Z:180:THR:HB	2:3Z:183:GLU:HB3	1.95	0.47
1:4A:180:ALA:HB3	1:4A:183:GLU:HG3	1.96	0.47
1:4B:180:ALA:HB3	1:4B:183:GLU:HG3	1.96	0.47
1:4I:283:HIS:CE1	1:4J:87:PHE:O	2.68	0.47
1:4J:283:HIS:CE1	1:4K:87:PHE:O	2.68	0.47
1:4N:132:LEU:HD23	1:4N:164:LYS:NZ	2.29	0.47
2:4Q:339:ASN:HB3	2:4Q:342:TYR:HB2	1.97	0.47
2:4S:336:GLN:HE22	2:4S:349:ASN:H	1.62	0.47
2:4Z:180:THR:HB	2:4Z:183:GLU:HB3	1.95	0.47
1:1D:260:VAL:CG1	2:4Q:406:HIS:HE1	2.27	0.47
1:1E:228:ASN:OD1	3:1E:501:GTP:N1	2.46	0.47
1:1F:195:LEU:HD21	1:1F:264:ARG:HE	1.79	0.47
1:1I:132:LEU:HD23	1:1I:164:LYS:HZ3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1L:439:SER:OG	2:4X:401:ARG:CD	2.63	0.47
1:1N:251:ASP:HB2	1:1N:254:GLU:HG3	1.96	0.47
2:1H:382:THR:HG21	2:1H:436:GLN:HB2	1.97	0.47
2:1P:339:ASN:HB3	2:1P:342:TYR:HB2	1.97	0.47
2:1R:181:VAL:HB	1:2E:258:ASN:HA	1.97	0.47
2:1R:339:ASN:HB3	2:1R:342:TYR:HB2	1.97	0.47
2:1U:3:GLU:HA	2:1U:51:VAL:HA	1.96	0.47
2:1U:181:VAL:CB	1:2I:258:ASN:CA	2.90	0.47
2:1W:224:TYR:HE2	1:2K:248:LEU:CA	2.28	0.47
2:1X:339:ASN:HB3	2:1X:342:TYR:HB2	1.97	0.47
2:1Y:339:ASN:HB3	2:1Y:342:TYR:HB2	1.97	0.47
1:2B:180:ALA:HB3	1:2B:183:GLU:HG3	1.96	0.47
1:2G:195:LEU:HD21	1:2G:264:ARG:HE	1.79	0.47
2:2H:69:ASP:OD2	2:2H:74:THR:OG1	2.22	0.47
2:2H:403:ALA:HA	1:3A:262:TYR:CZ	2.50	0.47
2:2P:100:GLY:HA2	1:3C:253:THR:C	2.35	0.47
2:2P:339:ASN:HB3	2:2P:342:TYR:HB2	1.97	0.47
2:2R:157:ILE:O	2:2R:161:TYR:N	2.46	0.47
2:2T:73:GLY:HA3	1:3G:2:ARG:CZ	2.44	0.47
5:2T:501:GDP:H8	1:3G:248:LEU:CD1	2.28	0.47
5:2U:501:GDP:C8	1:3I:248:LEU:CD1	2.93	0.47
2:2V:406:HIS:CG	1:3J:263:PRO:CD	2.82	0.47
2:2W:336:GLN:HE22	2:2W:349:ASN:H	1.62	0.47
2:2X:339:ASN:HB3	2:2X:342:TYR:HB2	1.97	0.47
2:2Y:179:ASP:OD2	1:3M:248:LEU:HD21	2.14	0.47
2:2Y:339:ASN:HB3	2:2Y:342:TYR:HB2	1.97	0.47
2:2Z:11:GLN:CD	1:3N:249:ASN:H	2.15	0.47
2:2Z:339:ASN:HB3	2:2Z:342:TYR:HB2	1.97	0.47
2:2Z:404:PHE:CZ	1:3N:261:PRO:CB	2.97	0.47
1:3B:180:ALA:HB3	1:3B:183:GLU:HG3	1.96	0.47
1:3F:195:LEU:HD21	1:3F:264:ARG:HE	1.79	0.47
1:3J:283:HIS:CE1	1:3K:87:PHE:O	2.68	0.47
1:3K:180:ALA:HB3	1:3K:183:GLU:HG3	1.96	0.47
2:3Q:339:ASN:HB3	2:3Q:342:TYR:HB2	1.97	0.47
2:3R:157:ILE:O	2:3R:161:TYR:N	2.46	0.47
2:3R:339:ASN:HB3	2:3R:342:TYR:HB2	1.97	0.47
2:3S:336:GLN:HE22	2:3S:349:ASN:H	1.62	0.47
2:3X:339:ASN:HB3	2:3X:342:TYR:HB2	1.97	0.47
2:3Y:339:ASN:HB3	2:3Y:342:TYR:HB2	1.97	0.47
1:4F:195:LEU:HD21	1:4F:264:ARG:HE	1.79	0.47
1:4K:180:ALA:HB3	1:4K:183:GLU:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4M:180:ALA:HB3	1:4M:183:GLU:HG3	1.96	0.47
2:4P:336:GLN:HE22	2:4P:349:ASN:H	1.62	0.47
2:4P:339:ASN:HB3	2:4P:342:TYR:HB2	1.97	0.47
2:4R:339:ASN:HB3	2:4R:342:TYR:HB2	1.97	0.47
2:4S:3:GLU:HA	2:4S:51:VAL:HA	1.95	0.47
2:4U:3:GLU:HA	2:4U:51:VAL:HA	1.95	0.47
2:4Y:339:ASN:HB3	2:4Y:342:TYR:HB2	1.97	0.47
1:1C:195:LEU:HD21	1:1C:264:ARG:HE	1.79	0.47
1:1D:353:VAL:HG23	2:4Q:179:ASP:OD1	2.14	0.47
1:1F:262:TYR:OH	2:4S:403:ALA:CA	2.62	0.47
1:1K:346:TRP:CH2	2:4W:404:PHE:CD2	2.99	0.47
1:1M:132:LEU:HD23	1:1M:164:LYS:NZ	2.29	0.47
1:1M:180:ALA:HB3	1:1M:183:GLU:HG3	1.96	0.47
1:1N:180:ALA:HB3	1:1N:183:GLU:HG3	1.96	0.47
1:1N:349:THR:OG1	2:4Z:184:PRO:HD3	2.15	0.47
2:1U:382:THR:HG21	2:1U:436:GLN:HB2	1.97	0.47
2:1U:406:HIS:NE2	1:2I:263:PRO:HD3	2.29	0.47
2:1V:157:ILE:O	2:1V:161:TYR:N	2.46	0.47
2:1V:382:THR:HG21	2:1V:436:GLN:HB2	1.97	0.47
2:1W:336:GLN:HE22	2:1W:349:ASN:H	1.62	0.47
2:1W:339:ASN:HB3	2:1W:342:TYR:HB2	1.97	0.47
2:1W:406:HIS:CD2	1:2K:263:PRO:CD	2.92	0.47
2:1Z:339:ASN:HB3	2:1Z:342:TYR:HB2	1.97	0.47
1:2C:195:LEU:HD21	1:2C:264:ARG:HE	1.79	0.47
1:2K:79:ARG:NH2	1:2K:92:LEU:O	2.41	0.47
1:2K:180:ALA:HB3	1:2K:183:GLU:HG3	1.96	0.47
1:2L:241:SER:OG	1:2L:250:VAL:O	2.25	0.47
1:2M:180:ALA:HB3	1:2M:183:GLU:HG3	1.96	0.47
1:2N:180:ALA:HB3	1:2N:183:GLU:HG3	1.96	0.47
2:2H:382:THR:HG21	2:2H:436:GLN:HB2	1.98	0.47
2:2P:36:TYR:OH	2:2P:40:SER:O	2.33	0.47
2:2P:222:PRO:CG	1:3C:326:LYS:HB2	2.33	0.47
2:2P:223:THR:HA	1:3C:325:PRO:CD	2.45	0.47
2:2Q:72:PRO:CD	1:3D:2:ARG:HD3	2.38	0.47
2:2R:339:ASN:HB3	2:2R:342:TYR:HB2	1.97	0.47
2:2R:404:PHE:CD1	1:3E:261:PRO:N	2.83	0.47
2:2S:3:GLU:HA	2:2S:51:VAL:HA	1.95	0.47
2:2U:404:PHE:CG	1:3I:261:PRO:HB3	2.45	0.47
2:2V:101:ASN:HB3	1:3J:257:THR:HB	1.96	0.47
2:2X:394:GLN:CG	1:3L:348:PRO:HG3	2.26	0.47
2:2Y:382:THR:HG21	2:2Y:436:GLN:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3E:228:ASN:OD1	3:3E:501:GTP:N1	2.46	0.47
1:3G:195:LEU:HD21	1:3G:264:ARG:HE	1.79	0.47
1:3M:180:ALA:HB3	1:3M:183:GLU:HG3	1.96	0.47
1:3N:180:ALA:HB3	1:3N:183:GLU:HG3	1.96	0.47
2:3H:382:THR:HG21	2:3H:436:GLN:HB2	1.97	0.47
2:3P:36:TYR:OH	2:3P:40:SER:O	2.33	0.47
2:3P:339:ASN:HB3	2:3P:342:TYR:HB2	1.97	0.47
2:3V:157:ILE:O	2:3V:161:TYR:N	2.46	0.47
2:3V:382:THR:HG21	2:3V:436:GLN:HB2	1.97	0.47
2:3W:339:ASN:HB3	2:3W:342:TYR:HB2	1.97	0.47
2:3Y:382:THR:HG21	2:3Y:436:GLN:HB2	1.97	0.47
2:3Z:339:ASN:HB3	2:3Z:342:TYR:HB2	1.97	0.47
1:4C:195:LEU:HD21	1:4C:264:ARG:HE	1.79	0.47
1:4C:283:HIS:CE1	1:4D:87:PHE:O	2.68	0.47
1:4D:195:LEU:HD21	1:4D:264:ARG:HE	1.79	0.47
1:4G:195:LEU:HD21	1:4G:264:ARG:HE	1.79	0.47
1:4G:283:HIS:CE1	1:4I:87:PHE:O	2.68	0.47
2:4H:382:THR:HG21	2:4H:436:GLN:HB2	1.97	0.47
2:4P:36:TYR:OH	2:4P:40:SER:O	2.33	0.47
2:4T:382:THR:HG21	2:4T:436:GLN:HB2	1.97	0.47
2:4V:382:THR:HG21	2:4V:436:GLN:HB2	1.97	0.47
2:4W:336:GLN:HE22	2:4W:349:ASN:H	1.62	0.47
2:4X:339:ASN:HB3	2:4X:342:TYR:HB2	1.97	0.47
2:4Y:382:THR:HG21	2:4Y:436:GLN:HB2	1.97	0.47
2:4Z:339:ASN:HB3	2:4Z:342:TYR:HB2	1.97	0.47
1:1B:180:ALA:HB3	1:1B:183:GLU:HG3	1.96	0.46
1:1B:247:ALA:O	2:4O:15:GLN:NE2	2.49	0.46
1:1D:346:TRP:CH2	2:4Q:404:PHE:CE2	3.03	0.46
1:1G:195:LEU:HD21	1:1G:264:ARG:HE	1.80	0.46
1:1K:261:PRO:CA	2:4W:404:PHE:CD1	2.98	0.46
1:1L:352:LYS:HD3	2:4X:101:ASN:ND2	2.31	0.46
1:1M:251:ASP:OD2	2:4Y:71:GLU:HB3	2.14	0.46
1:1N:325:PRO:HD2	2:4Z:223:THR:CA	2.26	0.46
2:1P:36:TYR:OH	2:1P:40:SER:O	2.33	0.46
2:1P:157:ILE:O	2:1P:161:TYR:N	2.46	0.46
2:1Q:222:PRO:CD	1:2D:326:LYS:HB2	2.45	0.46
2:1S:3:GLU:HA	2:1S:51:VAL:HA	1.95	0.46
2:1Y:382:THR:HG21	2:1Y:436:GLN:HB2	1.98	0.46
1:2C:283:HIS:CE1	1:2D:87:PHE:O	2.68	0.46
1:2M:132:LEU:HD23	1:2M:164:LYS:NZ	2.29	0.46
2:2P:404:PHE:N	1:3C:261:PRO:HA	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2P:407:TRP:HE1	1:3C:260:VAL:CB	2.22	0.46
2:2Q:404:PHE:N	1:3D:261:PRO:CA	2.78	0.46
2:2Q:404:PHE:CA	1:3D:261:PRO:O	2.62	0.46
2:2R:178:SER:OG	1:3E:351:PHE:N	2.48	0.46
2:2S:339:ASN:HB3	2:2S:342:TYR:HB2	1.97	0.46
2:2S:394:GLN:OE1	1:3F:349:THR:HG23	2.15	0.46
2:2V:157:ILE:O	2:2V:161:TYR:N	2.46	0.46
2:2V:382:THR:HG21	2:2V:436:GLN:HB2	1.97	0.46
2:2W:178:SER:CB	1:3K:349:THR:HB	2.43	0.46
2:2W:339:ASN:HB3	2:2W:342:TYR:HB2	1.97	0.46
2:2W:382:THR:HG21	2:2W:436:GLN:HB2	1.97	0.46
2:2W:404:PHE:CD1	1:3K:260:VAL:O	2.68	0.46
2:2Y:222:PRO:CD	1:3M:326:LYS:CB	2.93	0.46
1:3C:283:HIS:CE1	1:3D:87:PHE:O	2.68	0.46
1:3K:79:ARG:NH2	1:3K:92:LEU:O	2.41	0.46
2:3H:69:ASP:OD2	2:3H:74:THR:OG1	2.22	0.46
2:3S:3:GLU:HA	2:3S:51:VAL:HA	1.95	0.46
2:3T:382:THR:HG21	2:3T:436:GLN:HB2	1.97	0.46
2:3U:382:THR:HG21	2:3U:436:GLN:HB2	1.97	0.46
2:3W:336:GLN:HE22	2:3W:349:ASN:H	1.62	0.46
1:4K:79:ARG:NH2	1:4K:92:LEU:O	2.41	0.46
1:4M:132:LEU:HD23	1:4M:164:LYS:NZ	2.29	0.46
1:4N:180:ALA:HB3	1:4N:183:GLU:HG3	1.96	0.46
2:4R:157:ILE:O	2:4R:161:TYR:N	2.46	0.46
2:4S:339:ASN:HB3	2:4S:342:TYR:HB2	1.97	0.46
2:4U:382:THR:HG21	2:4U:436:GLN:HB2	1.97	0.46
2:4W:339:ASN:HB3	2:4W:342:TYR:HB2	1.97	0.46
1:1A:351:PHE:O	2:4H:180:THR:CA	2.63	0.46
1:1C:283:HIS:CE1	1:1D:87:PHE:O	2.68	0.46
1:1D:262:TYR:C	2:4Q:406:HIS:CE1	2.81	0.46
1:1E:349:THR:CG2	2:4R:184:PRO:CD	2.93	0.46
1:1F:346:TRP:CH2	2:4S:404:PHE:CD2	3.03	0.46
1:1G:260:VAL:HG21	2:4T:407:TRP:HZ2	1.81	0.46
1:1I:326:LYS:HA	2:4U:210:TYR:CD1	2.51	0.46
1:1K:79:ARG:NH2	1:1K:92:LEU:O	2.41	0.46
1:1M:132:LEU:HD23	1:1M:164:LYS:HZ3	1.80	0.46
1:1N:247:ALA:O	2:4Z:15:GLN:NE2	2.46	0.46
2:1H:69:ASP:OD2	2:1H:74:THR:OG1	2.22	0.46
2:1H:214:PHE:CD1	1:2A:326:LYS:HE2	2.50	0.46
2:1R:404:PHE:CE1	1:2E:261:PRO:N	2.83	0.46
2:1S:339:ASN:HB3	2:1S:342:TYR:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1W:382:THR:HG21	2:1W:436:GLN:HB2	1.98	0.46
2:1Y:181:VAL:CG2	1:2M:258:ASN:C	2.66	0.46
2:1Z:382:THR:HG21	2:1Z:436:GLN:HB2	1.97	0.46
1:2D:195:LEU:HD21	1:2D:264:ARG:HE	1.79	0.46
1:2E:228:ASN:OD1	3:2E:501:GTP:N1	2.46	0.46
1:2N:138:PHE:HZ	1:2N:235:VAL:HG11	1.80	0.46
2:2H:336:GLN:HE22	2:2H:349:ASN:H	1.62	0.46
2:2P:382:THR:HG21	2:2P:436:GLN:HB2	1.97	0.46
2:2S:407:TRP:CD1	1:3F:260:VAL:O	2.68	0.46
2:2T:382:THR:HG21	2:2T:436:GLN:HB2	1.98	0.46
2:2U:382:THR:HG21	2:2U:436:GLN:HB2	1.98	0.46
2:2V:178:SER:OG	1:3J:351:PHE:N	2.48	0.46
2:2X:178:SER:OG	1:3L:350:GLY:N	2.49	0.46
2:2Z:181:VAL:HG21	1:3N:314:ALA:HB1	1.97	0.46
2:2Z:382:THR:HG21	2:2Z:436:GLN:HB2	1.98	0.46
1:3C:195:LEU:HD21	1:3C:264:ARG:HE	1.79	0.46
1:3D:195:LEU:HD21	1:3D:264:ARG:HE	1.79	0.46
1:3I:132:LEU:HD23	1:3I:164:LYS:HZ3	1.81	0.46
1:3M:132:LEU:HD23	1:3M:164:LYS:NZ	2.29	0.46
1:3N:138:PHE:HZ	1:3N:235:VAL:HG11	1.80	0.46
2:3H:336:GLN:HE22	2:3H:349:ASN:H	1.62	0.46
2:3S:339:ASN:HB3	2:3S:342:TYR:HB2	1.97	0.46
1:4E:228:ASN:OD1	3:4E:501:GTP:N1	2.46	0.46
1:4F:241:SER:OG	1:4F:250:VAL:O	2.25	0.46
2:4H:336:GLN:HE22	2:4H:349:ASN:H	1.63	0.46
2:4H:339:ASN:HB3	2:4H:342:TYR:HB2	1.97	0.46
2:4V:157:ILE:O	2:4V:161:TYR:N	2.46	0.46
2:4W:382:THR:HG21	2:4W:436:GLN:HB2	1.97	0.46
2:4Z:382:THR:HG21	2:4Z:436:GLN:HB2	1.98	0.46
1:1B:346:TRP:CH2	2:4O:404:PHE:HE2	2.34	0.46
1:1F:283:HIS:CE1	1:1G:87:PHE:O	2.68	0.46
1:1G:253:THR:C	2:4T:100:GLY:CA	2.75	0.46
1:1G:261:PRO:CA	2:4T:404:PHE:N	2.78	0.46
1:1I:180:ALA:HB3	1:1I:183:GLU:HG3	1.96	0.46
1:1K:260:VAL:CB	2:4W:407:TRP:NE1	2.75	0.46
1:1L:261:PRO:HB3	2:4X:404:PHE:CE1	2.50	0.46
1:1L:283:HIS:CE1	1:1M:87:PHE:O	2.68	0.46
1:1L:348:PRO:CG	2:4X:394:GLN:HG2	2.45	0.46
1:1M:253:THR:HG22	2:4Y:100:GLY:HA3	1.95	0.46
1:1N:138:PHE:HZ	1:1N:235:VAL:HG11	1.80	0.46
2:1H:339:ASN:HB3	2:1H:342:TYR:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1O:179:ASP:O	1:2B:352:LYS:HD2	2.16	0.46
2:1O:339:ASN:HB3	2:1O:342:TYR:HB2	1.97	0.46
2:1P:382:THR:HG21	2:1P:436:GLN:HB2	1.97	0.46
2:1T:382:THR:HG21	2:1T:436:GLN:HB2	1.98	0.46
2:1V:222:PRO:HG2	1:2J:326:LYS:HB2	1.98	0.46
2:1W:214:PHE:CB	1:2K:326:LYS:CE	2.67	0.46
1:2F:283:HIS:CE1	1:2G:87:PHE:O	2.68	0.46
1:2G:138:PHE:HZ	1:2G:235:VAL:HG11	1.80	0.46
1:2I:180:ALA:HB3	1:2I:183:GLU:HG3	1.96	0.46
1:2L:180:ALA:HB3	1:2L:183:GLU:HG3	1.96	0.46
2:2H:339:ASN:HB3	2:2H:342:TYR:HB2	1.97	0.46
2:2S:394:GLN:CB	1:3F:348:PRO:CG	2.93	0.46
2:2T:222:PRO:C	1:3G:324:VAL:HG13	2.36	0.46
2:2T:404:PHE:CG	1:3G:261:PRO:CB	2.94	0.46
2:2W:100:GLY:O	1:3K:257:THR:CB	2.61	0.46
1:3F:283:HIS:CE1	1:3G:87:PHE:O	2.68	0.46
1:3I:180:ALA:HB3	1:3I:183:GLU:HG3	1.96	0.46
1:3L:283:HIS:CE1	1:3M:87:PHE:O	2.68	0.46
2:3P:157:ILE:O	2:3P:161:TYR:N	2.46	0.46
2:3W:382:THR:HG21	2:3W:436:GLN:HB2	1.98	0.46
2:3Z:382:THR:HG21	2:3Z:436:GLN:HB2	1.98	0.46
1:4D:138:PHE:HZ	1:4D:235:VAL:HG11	1.80	0.46
1:4L:180:ALA:HB3	1:4L:183:GLU:HG3	1.96	0.46
1:4N:138:PHE:HZ	1:4N:235:VAL:HG11	1.80	0.46
1:1D:138:PHE:HZ	1:1D:235:VAL:HG11	1.80	0.46
1:1D:195:LEU:HD21	1:1D:264:ARG:HE	1.79	0.46
1:1E:236:SER:O	1:1E:243:ARG:NH2	2.49	0.46
1:1E:260:VAL:CG1	2:4R:407:TRP:CZ2	2.98	0.46
1:1E:349:THR:O	2:4R:181:VAL:O	2.32	0.46
1:1F:257:THR:HG21	2:4S:101:ASN:C	2.36	0.46
1:1F:329:ASN:ND2	2:4S:210:TYR:CD2	2.70	0.46
1:1G:254:GLU:CA	2:4T:100:GLY:HA2	2.45	0.46
1:1G:260:VAL:CG1	2:4T:407:TRP:NE1	2.78	0.46
1:1G:261:PRO:HD3	2:4T:404:PHE:CE1	2.51	0.46
1:1G:263:PRO:CA	2:4T:406:HIS:CE1	2.99	0.46
1:1J:258:ASN:ND2	2:4V:180:THR:HG23	2.30	0.46
1:1N:348:PRO:CG	2:4Z:394:GLN:HB3	2.43	0.46
2:1H:336:GLN:HE22	2:1H:349:ASN:H	1.62	0.46
2:1O:222:PRO:HD2	1:2B:326:LYS:CB	2.44	0.46
2:1R:382:THR:HG21	2:1R:436:GLN:HB2	1.97	0.46
2:1S:404:PHE:CD1	1:2F:260:VAL:O	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1T:339:ASN:HB3	2:1T:342:TYR:HB2	1.97	0.46
2:1U:394:GLN:HG2	1:2I:348:PRO:HG2	1.98	0.46
2:1V:339:ASN:HB3	2:1V:342:TYR:HB2	1.97	0.46
2:1W:181:VAL:HG11	1:2K:258:ASN:O	2.15	0.46
2:1Y:224:TYR:HE2	1:2M:247:ALA:O	1.92	0.46
2:1Z:403:ALA:HB1	1:2N:261:PRO:CB	2.43	0.46
1:2D:138:PHE:HZ	1:2D:235:VAL:HG11	1.80	0.46
1:2E:236:SER:O	1:2E:243:ARG:NH2	2.49	0.46
1:2F:138:PHE:HZ	1:2F:235:VAL:HG11	1.80	0.46
1:2I:138:PHE:HZ	1:2I:235:VAL:HG11	1.80	0.46
1:2J:138:PHE:HZ	1:2J:235:VAL:HG11	1.80	0.46
1:2L:283:HIS:CE1	1:2M:87:PHE:O	2.68	0.46
2:2O:339:ASN:HB3	2:2O:342:TYR:HB2	1.97	0.46
2:2P:157:ILE:O	2:2P:161:TYR:N	2.46	0.46
2:2P:224:TYR:CD2	1:3C:247:ALA:HB1	2.50	0.46
2:2R:178:SER:O	1:3E:351:PHE:O	2.33	0.46
2:2S:96:GLN:OE1	1:3F:1:MET:O	2.33	0.46
2:2U:339:ASN:HB3	2:2U:342:TYR:HB2	1.97	0.46
2:2V:339:ASN:HB3	2:2V:342:TYR:HB2	1.97	0.46
1:3B:236:SER:O	1:3B:243:ARG:NH2	2.49	0.46
1:3D:138:PHE:HZ	1:3D:235:VAL:HG11	1.80	0.46
1:3L:180:ALA:HB3	1:3L:183:GLU:HG3	1.96	0.46
2:3H:339:ASN:HB3	2:3H:342:TYR:HB2	1.97	0.46
2:3O:339:ASN:HB3	2:3O:342:TYR:HB2	1.97	0.46
2:3T:339:ASN:HB3	2:3T:342:TYR:HB2	1.97	0.46
2:3U:339:ASN:HB3	2:3U:342:TYR:HB2	1.97	0.46
2:3V:339:ASN:HB3	2:3V:342:TYR:HB2	1.97	0.46
1:4D:283:HIS:CE1	1:4E:87:PHE:O	2.68	0.46
1:4E:236:SER:O	1:4E:243:ARG:NH2	2.49	0.46
1:4G:138:PHE:HZ	1:4G:235:VAL:HG11	1.80	0.46
1:4I:138:PHE:HZ	1:4I:235:VAL:HG11	1.80	0.46
1:4I:180:ALA:HB3	1:4I:183:GLU:HG3	1.96	0.46
2:4O:339:ASN:HB3	2:4O:342:TYR:HB2	1.97	0.46
2:4P:382:THR:HG21	2:4P:436:GLN:HB2	1.98	0.46
2:4R:382:THR:HG21	2:4R:436:GLN:HB2	1.97	0.46
2:4T:339:ASN:HB3	2:4T:342:TYR:HB2	1.97	0.46
2:4U:339:ASN:HB3	2:4U:342:TYR:HB2	1.97	0.46
2:4X:382:THR:HG21	2:4X:436:GLN:HB2	1.97	0.46
1:1A:326:LYS:HE3	2:4H:214:PHE:CD1	2.50	0.46
1:1A:348:PRO:HB2	2:4H:394:GLN:HG2	1.91	0.46
1:1B:261:PRO:CB	2:4O:404:PHE:H	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:346:TRP:HH2	2:4O:404:PHE:HE2	1.64	0.46
1:1F:138:PHE:HZ	1:1F:235:VAL:HG11	1.80	0.46
1:1G:138:PHE:HZ	1:1G:235:VAL:HG11	1.80	0.46
1:1L:180:ALA:HB3	1:1L:183:GLU:HG3	1.96	0.46
1:1N:332:ILE:HG21	2:4Z:177:VAL:HG23	1.96	0.46
2:1T:181:VAL:CB	1:2G:258:ASN:HA	2.41	0.46
2:1U:339:ASN:HB3	2:1U:342:TYR:HB2	1.97	0.46
2:1X:403:ALA:CA	1:2L:261:PRO:O	2.64	0.46
1:2B:236:SER:O	1:2B:243:ARG:NH2	2.49	0.46
1:2D:283:HIS:CE1	1:2E:87:PHE:O	2.68	0.46
1:2F:241:SER:OG	1:2F:250:VAL:O	2.25	0.46
2:2O:382:THR:HG21	2:2O:436:GLN:HB2	1.97	0.46
2:2P:77:SER:CB	1:3C:245:ASP:OD1	2.56	0.46
2:2Q:179:ASP:OD2	1:3D:248:LEU:HD21	2.15	0.46
2:2Q:404:PHE:CE2	1:3D:261:PRO:CB	2.79	0.46
2:2R:382:THR:HG21	2:2R:436:GLN:HB2	1.98	0.46
2:2T:101:ASN:O	1:3G:257:THR:CG2	2.56	0.46
2:2T:214:PHE:CG	1:3G:326:LYS:HE3	2.51	0.46
2:2T:339:ASN:HB3	2:2T:342:TYR:HB2	1.97	0.46
2:2X:382:THR:HG21	2:2X:436:GLN:HB2	1.97	0.46
1:3D:283:HIS:CE1	1:3E:87:PHE:O	2.68	0.46
1:3E:138:PHE:HZ	1:3E:235:VAL:HG11	1.80	0.46
1:3E:236:SER:O	1:3E:243:ARG:NH2	2.49	0.46
1:3F:138:PHE:HZ	1:3F:235:VAL:HG11	1.80	0.46
1:3G:138:PHE:HZ	1:3G:235:VAL:HG11	1.80	0.46
1:3I:138:PHE:HZ	1:3I:235:VAL:HG11	1.80	0.46
1:3J:138:PHE:HZ	1:3J:235:VAL:HG11	1.80	0.46
2:3O:382:THR:HG21	2:3O:436:GLN:HB2	1.97	0.46
2:3P:382:THR:HG21	2:3P:436:GLN:HB2	1.98	0.46
2:3R:382:THR:HG21	2:3R:436:GLN:HB2	1.98	0.46
2:3S:157:ILE:O	2:3S:161:TYR:N	2.46	0.46
2:3Z:12:CYS:HG	2:3Z:140:SER:HG	1.60	0.46
1:4B:236:SER:O	1:4B:243:ARG:NH2	2.49	0.46
1:4F:283:HIS:CE1	1:4G:87:PHE:O	2.68	0.46
1:4J:138:PHE:HZ	1:4J:235:VAL:HG11	1.80	0.46
1:4L:283:HIS:CE1	1:4M:87:PHE:O	2.68	0.46
2:4O:382:THR:HG21	2:4O:436:GLN:HB2	1.97	0.46
2:4P:157:ILE:O	2:4P:161:TYR:N	2.46	0.46
2:4R:69:ASP:OD2	2:4R:74:THR:OG1	2.22	0.46
2:4V:339:ASN:HB3	2:4V:342:TYR:HB2	1.97	0.46
1:1A:138:PHE:HZ	1:1A:235:VAL:HG11	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:236:SER:O	1:1B:243:ARG:NH2	2.49	0.46
1:1C:138:PHE:HZ	1:1C:235:VAL:HG11	1.80	0.46
1:1E:138:PHE:HZ	1:1E:235:VAL:HG11	1.80	0.46
1:1E:346:TRP:CZ3	2:4R:403:ALA:CB	2.99	0.46
1:1G:333:ALA:CB	2:4T:176:LYS:HE2	2.35	0.46
1:1I:138:PHE:HZ	1:1I:235:VAL:HG11	1.80	0.46
1:1I:262:TYR:CE1	2:4U:402:LYS:O	2.69	0.46
1:1I:348:PRO:CG	2:4U:394:GLN:CG	2.93	0.46
1:1J:138:PHE:HZ	1:1J:235:VAL:HG11	1.80	0.46
1:1J:261:PRO:HA	2:4V:404:PHE:CA	2.28	0.46
1:1K:348:PRO:HD2	2:4W:398:MET:HG3	1.96	0.46
1:1N:260:VAL:HG11	2:4Z:407:TRP:HZ2	1.81	0.46
2:1O:336:GLN:HE22	2:1O:349:ASN:H	1.62	0.46
2:1O:382:THR:HG21	2:1O:436:GLN:HB2	1.98	0.46
2:1Q:382:THR:HG21	2:1Q:436:GLN:HB2	1.97	0.46
2:1Q:404:PHE:CE1	1:2D:261:PRO:CA	2.97	0.46
2:1S:221:THR:OG1	1:2F:324:VAL:CB	2.62	0.46
2:1S:382:THR:HG21	2:1S:436:GLN:HB2	1.98	0.46
2:1U:401:ARG:HB3	1:2I:262:TYR:OH	2.16	0.46
2:1X:382:THR:HG21	2:1X:436:GLN:HB2	1.98	0.46
1:2C:138:PHE:HZ	1:2C:235:VAL:HG11	1.80	0.46
1:2C:236:SER:O	1:2C:243:ARG:NH2	2.49	0.46
1:2E:138:PHE:HZ	1:2E:235:VAL:HG11	1.80	0.46
2:2P:221:THR:C	1:3C:324:VAL:HG11	2.36	0.46
2:2Q:179:ASP:OD1	1:3D:353:VAL:CB	2.60	0.46
2:2R:73:GLY:HA3	1:3E:2:ARG:NH2	2.31	0.46
2:2S:382:THR:HG21	2:2S:436:GLN:HB2	1.97	0.46
2:2T:404:PHE:HE2	1:3G:346:TRP:CH2	2.33	0.46
2:2V:207:GLU:OE1	1:3J:329:ASN:ND2	2.35	0.46
1:3C:138:PHE:HZ	1:3C:235:VAL:HG11	1.80	0.46
2:3X:382:THR:HG21	2:3X:436:GLN:HB2	1.98	0.46
1:4C:138:PHE:HZ	1:4C:235:VAL:HG11	1.80	0.46
1:4C:236:SER:O	1:4C:243:ARG:NH2	2.49	0.46
1:4E:138:PHE:HZ	1:4E:235:VAL:HG11	1.80	0.46
1:4F:138:PHE:HZ	1:4F:235:VAL:HG11	1.80	0.46
2:4S:382:THR:HG21	2:4S:436:GLN:HB2	1.97	0.46
1:1B:332:ILE:CB	2:4O:177:VAL:CG2	2.93	0.46
1:1C:236:SER:O	1:1C:243:ARG:NH2	2.49	0.46
1:1D:283:HIS:CE1	1:1E:87:PHE:O	2.68	0.46
1:1E:283:HIS:CE1	1:1F:87:PHE:O	2.68	0.46
1:1G:236:SER:O	1:1G:243:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:349:THR:O	2:4T:181:VAL:CA	2.63	0.46
1:1J:351:PHE:O	2:4V:180:THR:C	2.54	0.46
1:1N:257:THR:CG2	2:4Z:100:GLY:O	2.63	0.46
2:1R:69:ASP:OD2	2:1R:74:THR:OG1	2.22	0.46
2:1S:157:ILE:O	2:1S:161:TYR:N	2.46	0.46
2:1T:36:TYR:OH	2:1T:40:SER:O	2.33	0.46
2:1W:394:GLN:OE1	1:2K:349:THR:HG21	2.16	0.46
2:1X:178:SER:HG	1:2L:351:PHE:H	1.61	0.46
2:1X:394:GLN:CD	1:2L:349:THR:CG2	2.84	0.46
2:1Y:11:GLN:NE2	1:2M:249:ASN:HB2	2.30	0.46
2:1Z:36:TYR:OH	2:1Z:40:SER:O	2.33	0.46
1:2E:283:HIS:CE1	1:2F:87:PHE:O	2.68	0.46
1:2I:132:LEU:HD23	1:2I:164:LYS:HZ3	1.81	0.46
2:2O:394:GLN:OE1	1:3B:349:THR:HG23	2.16	0.46
2:2Q:101:ASN:ND2	1:3D:258:ASN:CG	2.62	0.46
2:2R:69:ASP:OD2	2:2R:74:THR:OG1	2.22	0.46
2:2R:101:ASN:HB2	1:3E:254:GLU:CB	2.46	0.46
5:2R:501:GDP:H8	1:3E:248:LEU:CD1	2.27	0.46
2:2S:157:ILE:O	2:2S:161:TYR:N	2.46	0.46
2:2S:181:VAL:HG11	1:3F:314:ALA:CB	2.46	0.46
2:2T:36:TYR:OH	2:2T:40:SER:O	2.33	0.46
2:2Z:178:SER:O	1:3N:351:PHE:C	2.53	0.46
1:3A:138:PHE:HZ	1:3A:235:VAL:HG11	1.80	0.46
1:3A:236:SER:O	1:3A:243:ARG:NH2	2.49	0.46
1:3C:236:SER:O	1:3C:243:ARG:NH2	2.49	0.46
1:3E:283:HIS:CE1	1:3F:87:PHE:O	2.68	0.46
2:3Q:382:THR:HG21	2:3Q:436:GLN:HB2	1.97	0.46
2:3R:69:ASP:OD2	2:3R:74:THR:OG1	2.22	0.46
2:3S:382:THR:HG21	2:3S:436:GLN:HB2	1.98	0.46
2:3Z:36:TYR:OH	2:3Z:40:SER:O	2.33	0.46
1:4A:228:ASN:OD1	3:4A:501:GTP:N1	2.46	0.46
1:4E:283:HIS:CE1	1:4F:87:PHE:O	2.68	0.46
1:4K:138:PHE:HZ	1:4K:235:VAL:HG11	1.80	0.46
2:4Q:382:THR:HG21	2:4Q:436:GLN:HB2	1.97	0.46
2:4S:157:ILE:O	2:4S:161:TYR:N	2.46	0.46
2:4Z:36:TYR:OH	2:4Z:40:SER:O	2.33	0.46
1:1A:236:SER:O	1:1A:243:ARG:NH2	2.49	0.46
1:1A:351:PHE:O	2:4H:179:ASP:C	2.54	0.46
1:1B:2:ARG:CZ	2:4O:73:GLY:HA3	2.45	0.46
1:1B:262:TYR:OH	2:4O:403:ALA:CA	2.64	0.46
1:1D:79:ARG:NH2	1:1D:92:LEU:O	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:439:SER:OG	2:4R:400:ARG:HG3	2.15	0.46
1:1F:260:VAL:CG1	2:4S:407:TRP:CE2	2.99	0.46
1:1K:346:TRP:CD2	2:4W:403:ALA:CB	2.98	0.46
1:1M:260:VAL:CB	2:4Y:407:TRP:HZ2	2.29	0.46
1:1M:326:LYS:CG	2:4Y:222:PRO:CG	2.94	0.46
2:1H:157:ILE:O	2:1H:161:TYR:N	2.46	0.46
2:1Q:178:SER:HB3	1:2D:349:THR:CB	2.46	0.46
2:1T:336:GLN:HE22	2:1T:349:ASN:H	1.62	0.46
1:2A:138:PHE:HZ	1:2A:235:VAL:HG11	1.80	0.46
1:2A:236:SER:O	1:2A:243:ARG:NH2	2.49	0.46
1:2K:138:PHE:HZ	1:2K:235:VAL:HG11	1.80	0.46
2:2H:406:HIS:CE1	1:3A:263:PRO:HB3	2.51	0.46
2:2O:336:GLN:HE22	2:2O:349:ASN:H	1.62	0.46
2:2Q:72:PRO:CG	1:3D:2:ARG:CG	2.90	0.46
2:2Q:228:ASN:HD21	5:2Q:501:GDP:HN1	1.64	0.46
2:2Q:382:THR:HG21	2:2Q:436:GLN:HB2	1.97	0.46
2:2R:179:ASP:OD1	1:3E:353:VAL:CB	2.60	0.46
2:2V:179:ASP:OD1	1:3J:353:VAL:HB	2.15	0.46
2:2W:403:ALA:CA	1:3K:262:TYR:CE1	2.94	0.46
2:2Y:11:GLN:HE22	1:3M:249:ASN:CB	2.29	0.46
2:2Z:36:TYR:OH	2:2Z:40:SER:O	2.33	0.46
1:3E:70:LEU:HD12	1:3E:99:ALA:HB2	1.98	0.46
2:3O:336:GLN:HE22	2:3O:349:ASN:H	1.63	0.46
2:3Q:228:ASN:HD21	5:3Q:501:GDP:HN1	1.64	0.46
2:3T:36:TYR:OH	2:3T:40:SER:O	2.33	0.46
1:4A:138:PHE:HZ	1:4A:235:VAL:HG11	1.80	0.46
2:4T:36:TYR:OH	2:4T:40:SER:O	2.33	0.46
2:4T:336:GLN:HE22	2:4T:349:ASN:H	1.62	0.46
1:1B:248:LEU:HA	2:4O:11:GLN:NE2	2.31	0.46
1:1D:2:ARG:CD	2:4Q:72:PRO:HG2	2.46	0.46
1:1E:70:LEU:HD12	1:1E:99:ALA:HB2	1.98	0.46
1:1E:258:ASN:O	2:4R:181:VAL:HB	2.16	0.46
1:1E:346:TRP:CZ2	2:4R:403:ALA:HB1	2.50	0.46
1:1E:439:SER:HB2	2:4R:400:ARG:HD2	1.98	0.46
1:1F:236:SER:O	1:1F:243:ARG:NH2	2.49	0.46
1:1F:325:PRO:HB2	2:4S:224:TYR:CE1	2.49	0.46
1:1F:346:TRP:HZ3	2:4S:404:PHE:CD2	2.34	0.46
1:1G:261:PRO:CA	2:4T:404:PHE:CD1	2.99	0.46
1:1J:351:PHE:N	2:4V:181:VAL:HG22	2.30	0.46
2:1Q:176:LYS:O	1:2D:336:LYS:NZ	2.48	0.46
2:1R:228:ASN:HD21	5:1R:501:GDP:HN1	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1T:221:THR:C	1:2G:324:VAL:CG1	2.84	0.46
2:1V:336:GLN:HE22	2:1V:349:ASN:H	1.62	0.46
2:1X:222:PRO:HD2	1:2L:326:LYS:CB	2.46	0.46
1:2G:236:SER:O	1:2G:243:ARG:NH2	2.49	0.46
1:2M:138:PHE:HZ	1:2M:235:VAL:HG11	1.80	0.46
2:2P:222:PRO:O	1:3C:324:VAL:CG1	2.64	0.46
2:2P:406:HIS:CE1	1:3C:263:PRO:CA	2.99	0.46
2:2T:336:GLN:HE22	2:2T:349:ASN:H	1.62	0.46
2:2T:404:PHE:CE1	1:3G:261:PRO:HD3	2.51	0.46
2:2V:336:GLN:HE22	2:2V:349:ASN:H	1.62	0.46
2:2W:178:SER:O	1:3K:351:PHE:C	2.54	0.46
2:2Z:406:HIS:NE2	1:3N:263:PRO:CD	2.79	0.46
1:3F:236:SER:O	1:3F:243:ARG:NH2	2.49	0.46
1:3G:236:SER:O	1:3G:243:ARG:NH2	2.49	0.46
1:3K:138:PHE:HZ	1:3K:235:VAL:HG11	1.80	0.46
1:3M:138:PHE:HZ	1:3M:235:VAL:HG11	1.80	0.46
2:3V:336:GLN:HE22	2:3V:349:ASN:H	1.62	0.46
1:4A:236:SER:O	1:4A:243:ARG:NH2	2.49	0.46
1:4E:70:LEU:HD12	1:4E:99:ALA:HB2	1.98	0.46
1:4M:138:PHE:HZ	1:4M:235:VAL:HG11	1.80	0.46
2:4O:336:GLN:HE22	2:4O:349:ASN:H	1.62	0.46
2:4U:69:ASP:OD2	2:4U:74:THR:OG1	2.22	0.46
1:1A:326:LYS:CB	2:4H:222:PRO:HD2	2.44	0.46
1:1F:70:LEU:HD12	1:1F:99:ALA:HB2	1.98	0.46
1:1I:439:SER:OG	2:4U:401:ARG:CD	2.64	0.46
1:1K:138:PHE:HZ	1:1K:235:VAL:HG11	1.80	0.46
1:1K:228:ASN:OD1	3:1K:501:GTP:N1	2.46	0.46
1:1L:324:VAL:CG1	2:4X:222:PRO:O	2.64	0.46
2:1Q:36:TYR:OH	2:1Q:40:SER:O	2.33	0.46
2:1Q:100:GLY:CA	1:2D:253:THR:CG2	2.93	0.46
2:1Q:200:GLU:HA	2:1Q:266:HIS:HB2	1.99	0.46
2:1Q:228:ASN:HD21	5:1Q:501:GDP:HN1	1.64	0.46
2:1R:200:GLU:HA	2:1R:266:HIS:HB2	1.98	0.46
2:1Z:181:VAL:CG2	1:2N:258:ASN:CB	2.80	0.46
1:2D:70:LEU:HD12	1:2D:99:ALA:HB2	1.98	0.46
1:2E:70:LEU:HD12	1:2E:99:ALA:HB2	1.98	0.46
2:2H:157:ILE:O	2:2H:161:TYR:N	2.46	0.46
2:2H:404:PHE:CD1	1:3A:260:VAL:O	2.69	0.46
2:2O:223:THR:HA	1:3B:325:PRO:CD	2.46	0.46
2:2Q:36:TYR:OH	2:2Q:40:SER:O	2.33	0.46
2:2R:228:ASN:HD21	5:2R:501:GDP:HN1	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2S:406:HIS:ND1	1:3F:263:PRO:HB3	2.31	0.46
2:2T:403:ALA:CB	1:3G:262:TYR:OH	2.54	0.46
2:2W:406:HIS:CE1	1:3K:263:PRO:N	2.84	0.46
2:2Y:222:PRO:CG	1:3M:326:LYS:CB	2.89	0.46
1:3F:70:LEU:HD12	1:3F:99:ALA:HB2	1.98	0.46
2:3H:157:ILE:O	2:3H:161:TYR:N	2.46	0.46
2:3Q:36:TYR:OH	2:3Q:40:SER:O	2.33	0.46
2:3T:336:GLN:HE22	2:3T:349:ASN:H	1.62	0.46
1:4D:236:SER:O	1:4D:243:ARG:NH2	2.49	0.46
1:4F:70:LEU:HD12	1:4F:99:ALA:HB2	1.98	0.46
1:4G:236:SER:O	1:4G:243:ARG:NH2	2.49	0.46
2:4Q:228:ASN:HD21	5:4Q:501:GDP:HN1	1.64	0.46
2:4T:205:ASP:OD2	2:4T:304:ALA:N	2.36	0.46
1:1C:329:ASN:CG	2:4P:207:GLU:OE1	2.52	0.45
1:1D:70:LEU:HD12	1:1D:99:ALA:HB2	1.98	0.45
1:1D:236:SER:O	1:1D:243:ARG:NH2	2.49	0.45
1:1G:254:GLU:HG2	2:4T:100:GLY:CA	2.47	0.45
1:1I:258:ASN:ND2	2:4U:182:VAL:HG22	2.30	0.45
1:1I:325:PRO:HB3	2:4U:224:TYR:CE1	2.51	0.45
1:1I:326:LYS:CA	2:4U:210:TYR:CE1	2.93	0.45
1:1J:260:VAL:HG12	2:4V:406:HIS:CE1	2.51	0.45
1:1J:326:LYS:HG3	2:4V:222:PRO:CG	2.46	0.45
2:1P:200:GLU:HA	2:1P:266:HIS:HB2	1.98	0.45
2:1V:36:TYR:OH	2:1V:40:SER:O	2.33	0.45
2:1Y:157:ILE:O	2:1Y:161:TYR:N	2.46	0.45
2:1Z:181:VAL:HG21	1:2N:258:ASN:HB3	1.91	0.45
2:1Z:224:TYR:HD2	1:2N:247:ALA:O	1.98	0.45
1:2F:70:LEU:HD12	1:2F:99:ALA:HB2	1.98	0.45
1:2F:236:SER:O	1:2F:243:ARG:NH2	2.49	0.45
1:2K:70:LEU:HD12	1:2K:99:ALA:HB2	1.98	0.45
1:2N:236:SER:O	1:2N:243:ARG:NH2	2.49	0.45
2:2P:200:GLU:HA	2:2P:266:HIS:HB2	1.98	0.45
2:2P:404:PHE:N	1:3C:261:PRO:CA	2.79	0.45
2:2Q:200:GLU:HA	2:2Q:266:HIS:HB2	1.99	0.45
2:2R:200:GLU:HA	2:2R:266:HIS:HB2	1.98	0.45
2:2S:404:PHE:HA	1:3F:261:PRO:O	2.15	0.45
2:2W:178:SER:CB	1:3K:349:THR:HA	2.43	0.45
2:2Y:406:HIS:NE2	1:3M:262:TYR:C	2.70	0.45
1:3D:70:LEU:HD12	1:3D:99:ALA:HB2	1.98	0.45
1:3D:79:ARG:NH2	1:3D:92:LEU:O	2.41	0.45
1:3K:70:LEU:HD12	1:3K:99:ALA:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3N:236:SER:O	1:3N:243:ARG:NH2	2.49	0.45
2:3P:200:GLU:HA	2:3P:266:HIS:HB2	1.98	0.45
2:3Q:200:GLU:HA	2:3Q:266:HIS:HB2	1.99	0.45
2:3R:200:GLU:HA	2:3R:266:HIS:HB2	1.98	0.45
2:3R:228:ASN:HD21	5:3R:501:GDP:HN1	1.64	0.45
2:3Y:157:ILE:O	2:3Y:161:TYR:N	2.46	0.45
1:4F:236:SER:O	1:4F:243:ARG:NH2	2.49	0.45
2:4H:157:ILE:O	2:4H:161:TYR:N	2.46	0.45
2:4P:200:GLU:HA	2:4P:266:HIS:HB2	1.98	0.45
2:4Q:36:TYR:OH	2:4Q:40:SER:O	2.33	0.45
2:4Q:200:GLU:HA	2:4Q:266:HIS:HB2	1.99	0.45
2:4V:336:GLN:HE22	2:4V:349:ASN:H	1.62	0.45
1:1B:262:TYR:C	2:4O:406:HIS:CD2	2.72	0.45
1:1D:263:PRO:N	2:4Q:406:HIS:CG	2.78	0.45
1:1D:346:TRP:CE3	2:4Q:403:ALA:HB3	2.51	0.45
1:1I:236:SER:O	1:1I:243:ARG:NH2	2.49	0.45
1:1K:70:LEU:HD12	1:1K:99:ALA:HB2	1.98	0.45
1:1K:349:THR:HA	2:4W:178:SER:CB	2.46	0.45
1:1M:138:PHE:HZ	1:1M:235:VAL:HG11	1.80	0.45
1:1M:261:PRO:CB	2:4Y:404:PHE:CD1	2.99	0.45
1:1N:236:SER:O	1:1N:243:ARG:NH2	2.49	0.45
1:1N:253:THR:CG2	2:4Z:100:GLY:HA3	2.40	0.45
2:1O:228:ASN:HD21	5:1O:501:GDP:HN1	1.64	0.45
2:1Q:100:GLY:HA2	1:2D:253:THR:CB	2.45	0.45
2:1S:200:GLU:HA	2:1S:266:HIS:HB2	1.98	0.45
2:1T:181:VAL:CG2	1:2G:258:ASN:CA	2.94	0.45
2:1W:221:THR:OG1	1:2K:324:VAL:CG1	2.65	0.45
2:1X:157:ILE:O	2:1X:161:TYR:N	2.46	0.45
2:1Y:181:VAL:CB	1:2M:258:ASN:CB	2.89	0.45
2:1Y:224:TYR:CE2	1:2M:247:ALA:C	2.89	0.45
1:2D:79:ARG:NH2	1:2D:92:LEU:O	2.41	0.45
1:2D:236:SER:O	1:2D:243:ARG:NH2	2.49	0.45
1:2I:236:SER:O	1:2I:243:ARG:NH2	2.49	0.45
2:2Q:214:PHE:CG	1:3D:326:LYS:CE	2.99	0.45
2:2Q:406:HIS:CE1	1:3D:263:PRO:HA	2.51	0.45
2:2R:394:GLN:CB	1:3E:348:PRO:HG2	2.46	0.45
2:2U:69:ASP:OD2	2:2U:74:THR:OG1	2.22	0.45
2:2V:36:TYR:OH	2:2V:40:SER:O	2.33	0.45
2:2W:403:ALA:CB	1:3K:262:TYR:OH	2.50	0.45
2:2Y:157:ILE:O	2:2Y:161:TYR:N	2.46	0.45
2:2Z:406:HIS:CE1	1:3N:263:PRO:CA	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3I:236:SER:O	1:3I:243:ARG:NH2	2.49	0.45
1:3K:228:ASN:OD1	3:3K:501:GTP:N1	2.46	0.45
1:3L:70:LEU:HD12	1:3L:99:ALA:HB2	1.98	0.45
2:3O:228:ASN:HD21	5:3O:501:GDP:HN1	1.64	0.45
2:3P:228:ASN:HD21	5:3P:501:GDP:HN1	1.64	0.45
2:3V:36:TYR:OH	2:3V:40:SER:O	2.33	0.45
1:4D:70:LEU:HD12	1:4D:99:ALA:HB2	1.98	0.45
1:4D:79:ARG:NH2	1:4D:92:LEU:O	2.41	0.45
1:4I:79:ARG:NH2	1:4I:92:LEU:O	2.41	0.45
1:4K:70:LEU:HD12	1:4K:99:ALA:HB2	1.98	0.45
1:4L:70:LEU:HD12	1:4L:99:ALA:HB2	1.98	0.45
1:4L:138:PHE:HZ	1:4L:235:VAL:HG11	1.80	0.45
1:4N:236:SER:O	1:4N:243:ARG:NH2	2.49	0.45
2:4R:200:GLU:HA	2:4R:266:HIS:HB2	1.99	0.45
2:4U:36:TYR:OH	2:4U:40:SER:O	2.33	0.45
2:4V:36:TYR:OH	2:4V:40:SER:O	2.33	0.45
2:4Y:157:ILE:O	2:4Y:161:TYR:N	2.46	0.45
1:1D:2:ARG:HG2	2:4Q:72:PRO:CD	2.39	0.45
1:1D:351:PHE:N	2:4Q:178:SER:OG	2.49	0.45
1:1G:350:GLY:C	2:4T:181:VAL:HG22	2.37	0.45
1:1I:79:ARG:NH2	1:1I:92:LEU:O	2.41	0.45
1:1I:351:PHE:N	2:4U:181:VAL:HG22	2.31	0.45
1:1L:70:LEU:HD12	1:1L:99:ALA:HB2	1.98	0.45
1:1L:138:PHE:HZ	1:1L:235:VAL:HG11	1.80	0.45
1:1M:249:ASN:N	2:4Y:11:GLN:OE1	2.48	0.45
1:1M:348:PRO:HG3	2:4Y:394:GLN:CG	2.46	0.45
1:1N:326:LYS:HE3	2:4Z:214:PHE:CD1	2.52	0.45
2:1T:228:ASN:HD21	5:1T:501:GDP:HN1	1.64	0.45
2:1V:404:PHE:CE1	1:2J:260:VAL:N	2.83	0.45
1:2I:79:ARG:NH2	1:2I:92:LEU:O	2.41	0.45
1:2K:228:ASN:OD1	3:2K:501:GTP:N1	2.46	0.45
1:2L:70:LEU:HD12	1:2L:99:ALA:HB2	1.98	0.45
1:2L:138:PHE:HZ	1:2L:235:VAL:HG11	1.80	0.45
2:2H:228:ASN:HD21	5:2H:501:GDP:HN1	1.64	0.45
2:2O:228:ASN:HD21	5:2O:501:GDP:HN1	1.64	0.45
2:2P:177:VAL:HG23	1:3C:332:ILE:HG22	1.97	0.45
2:2P:228:ASN:HD21	5:2P:501:GDP:HN1	1.64	0.45
2:2S:200:GLU:HA	2:2S:266:HIS:HB2	1.98	0.45
2:2S:228:ASN:HD21	5:2S:501:GDP:HN1	1.64	0.45
2:2T:228:ASN:HD21	5:2T:501:GDP:HN1	1.64	0.45
2:2U:36:TYR:OH	2:2U:40:SER:O	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2U:228:ASN:HD21	5:2U:501:GDP:HN1	1.64	0.45
2:2V:398:MET:CG	1:3J:346:TRP:O	2.64	0.45
2:2X:157:ILE:O	2:2X:161:TYR:N	2.46	0.45
1:3C:70:LEU:HD12	1:3C:99:ALA:HB2	1.98	0.45
1:3D:236:SER:O	1:3D:243:ARG:NH2	2.49	0.45
1:3L:138:PHE:HZ	1:3L:235:VAL:HG11	1.80	0.45
2:3H:228:ASN:HD21	5:3H:501:GDP:HN1	1.64	0.45
2:3S:200:GLU:HA	2:3S:266:HIS:HB2	1.98	0.45
2:3S:228:ASN:HD21	5:3S:501:GDP:HN1	1.64	0.45
2:3U:69:ASP:OD2	2:3U:74:THR:OG1	2.22	0.45
2:3X:157:ILE:O	2:3X:161:TYR:N	2.46	0.45
1:4I:236:SER:O	1:4I:243:ARG:NH2	2.49	0.45
2:4P:228:ASN:HD21	5:4P:501:GDP:HN1	1.64	0.45
2:4R:228:ASN:HD21	5:4R:501:GDP:HN1	1.65	0.45
2:4T:228:ASN:HD21	5:4T:501:GDP:HN1	1.64	0.45
1:1B:262:TYR:N	2:4O:406:HIS:NE2	2.64	0.45
1:1C:70:LEU:HD12	1:1C:99:ALA:HB2	1.98	0.45
1:1C:249:ASN:CA	2:4P:11:GLN:OE1	2.64	0.45
1:1C:314:ALA:HB1	2:4P:181:VAL:CG1	2.45	0.45
1:1C:346:TRP:O	2:4P:398:MET:HA	2.16	0.45
1:1D:245:ASP:CG	2:4Q:77:SER:CB	2.77	0.45
1:1G:70:LEU:HD12	1:1G:99:ALA:HB2	1.98	0.45
1:1I:261:PRO:CA	2:4U:404:PHE:CA	2.84	0.45
1:1I:332:ILE:CB	2:4U:177:VAL:CG2	2.94	0.45
1:1J:346:TRP:CB	2:4V:398:MET:HA	2.37	0.45
1:1N:262:TYR:OH	2:4Z:403:ALA:N	2.49	0.45
1:1N:349:THR:HB	2:4Z:178:SER:HB2	1.99	0.45
1:1N:351:PHE:O	2:4Z:179:ASP:C	2.54	0.45
2:1H:228:ASN:HD21	5:1H:501:GDP:HN1	1.64	0.45
2:1H:404:PHE:CE1	1:2A:260:VAL:C	2.90	0.45
2:1O:181:VAL:CG2	1:2B:258:ASN:O	2.56	0.45
2:1P:228:ASN:HD21	5:1P:501:GDP:HN1	1.64	0.45
2:1Q:222:PRO:CG	1:2D:326:LYS:HB2	2.46	0.45
2:1S:228:ASN:HD21	5:1S:501:GDP:HN1	1.64	0.45
2:1U:228:ASN:HD21	5:1U:501:GDP:HN1	1.64	0.45
1:2C:70:LEU:HD12	1:2C:99:ALA:HB2	1.98	0.45
1:2M:147:SER:HB2	1:2M:190:THR:HB	1.99	0.45
2:2O:181:VAL:HB	1:3B:258:ASN:O	2.17	0.45
2:2O:200:GLU:HA	2:2O:266:HIS:HB2	1.98	0.45
2:2Q:101:ASN:HB2	1:3D:254:GLU:HG2	1.99	0.45
2:2Q:181:VAL:HB	1:3D:258:ASN:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2R:181:VAL:CB	1:3E:258:ASN:O	2.64	0.45
2:2X:182:VAL:HG21	1:3L:257:THR:HG22	1.99	0.45
2:2Y:179:ASP:OD1	1:3M:353:VAL:HB	2.16	0.45
1:3E:172:TYR:N	1:3E:204:VAL:O	2.43	0.45
1:3I:79:ARG:NH2	1:3I:92:LEU:O	2.41	0.45
1:3J:70:LEU:HD12	1:3J:99:ALA:HB2	1.98	0.45
1:3M:147:SER:HB2	1:3M:190:THR:HB	1.99	0.45
2:3T:228:ASN:HD21	5:3T:501:GDP:HN1	1.64	0.45
1:4G:70:LEU:HD12	1:4G:99:ALA:HB2	1.98	0.45
1:4K:228:ASN:OD1	3:4K:501:GTP:N1	2.46	0.45
1:4K:407:TRP:CE3	2:4W:257:VAL:HG22	2.52	0.45
2:4H:228:ASN:HD21	5:4H:501:GDP:HN1	1.64	0.45
2:4O:200:GLU:HA	2:4O:266:HIS:HB2	1.98	0.45
2:4O:228:ASN:HD21	5:4O:501:GDP:HN1	1.64	0.45
2:4S:200:GLU:HA	2:4S:266:HIS:HB2	1.98	0.45
2:4S:228:ASN:HD21	5:4S:501:GDP:HN1	1.64	0.45
2:4X:157:ILE:O	2:4X:161:TYR:N	2.46	0.45
1:1A:349:THR:HG23	2:4H:394:GLN:OE1	2.15	0.45
1:1B:138:PHE:HZ	1:1B:235:VAL:HG11	1.80	0.45
1:1B:247:ALA:HB1	2:4O:224:TYR:HD2	1.82	0.45
1:1B:314:ALA:HB1	2:4O:181:VAL:CG2	2.37	0.45
1:1C:326:LYS:HB3	2:4P:222:PRO:HD2	1.97	0.45
1:1D:351:PHE:O	2:4Q:179:ASP:C	2.54	0.45
1:1E:257:THR:CG2	2:4R:101:ASN:O	2.65	0.45
1:1G:439:SER:OG	2:4T:400:ARG:HG3	2.17	0.45
1:1I:353:VAL:HG23	2:4U:179:ASP:OD1	2.17	0.45
1:1J:349:THR:OG1	2:4V:181:VAL:O	2.32	0.45
1:1J:407:TRP:CE3	2:1V:257:VAL:HG22	2.52	0.45
1:1K:258:ASN:ND2	2:4W:180:THR:HG23	2.32	0.45
1:1L:261:PRO:C	2:4X:406:HIS:CD2	2.86	0.45
1:1M:70:LEU:HD12	1:1M:99:ALA:HB2	1.98	0.45
1:1M:147:SER:HB2	1:1M:190:THR:HB	1.99	0.45
1:1M:346:TRP:O	2:4Y:398:MET:HA	2.14	0.45
2:1H:101:ASN:ND2	1:2A:258:ASN:OD1	2.49	0.45
2:1H:181:VAL:HB	1:2A:258:ASN:HD22	1.81	0.45
2:1S:222:PRO:CD	1:2F:326:LYS:CB	2.78	0.45
2:1V:179:ASP:OD2	1:2J:248:LEU:HD21	2.16	0.45
2:1X:200:GLU:HA	2:1X:266:HIS:HB2	1.99	0.45
2:1Y:200:GLU:HA	2:1Y:266:HIS:HB2	1.98	0.45
1:2E:172:TYR:N	1:2E:204:VAL:O	2.43	0.45
1:2J:70:LEU:HD12	1:2J:99:ALA:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2J:407:TRP:CE3	2:2V:257:VAL:HG22	2.52	0.45
1:2K:236:SER:O	1:2K:243:ARG:NH2	2.49	0.45
1:2K:407:TRP:CE3	2:2W:257:VAL:HG22	2.52	0.45
1:2M:70:LEU:HD12	1:2M:99:ALA:HB2	1.98	0.45
1:2N:147:SER:HB2	1:2N:190:THR:HB	1.99	0.45
2:2H:177:VAL:CG2	1:3A:332:ILE:HG21	2.46	0.45
2:2Q:11:GLN:OE1	1:3D:249:ASN:HB2	2.16	0.45
2:2Q:404:PHE:N	1:3D:261:PRO:HA	2.32	0.45
2:2S:406:HIS:HD2	1:3F:262:TYR:HA	1.79	0.45
2:2T:407:TRP:CD1	1:3G:260:VAL:O	2.70	0.45
2:2W:12:CYS:HG	2:2W:140:SER:HG	1.64	0.45
2:2X:72:PRO:HD2	1:3L:2:ARG:CD	2.46	0.45
2:2X:200:GLU:HA	2:2X:266:HIS:HB2	1.99	0.45
2:2X:404:PHE:CD1	1:3L:261:PRO:N	2.80	0.45
1:3G:70:LEU:HD12	1:3G:99:ALA:HB2	1.98	0.45
1:3J:407:TRP:CE3	2:3V:257:VAL:HG22	2.52	0.45
1:3K:236:SER:O	1:3K:243:ARG:NH2	2.49	0.45
1:3K:407:TRP:CE3	2:3W:257:VAL:HG22	2.52	0.45
1:3N:147:SER:HB2	1:3N:190:THR:HB	1.99	0.45
2:3O:200:GLU:HA	2:3O:266:HIS:HB2	1.98	0.45
2:3U:228:ASN:HD21	5:3U:501:GDP:HN1	1.64	0.45
2:3W:12:CYS:HG	2:3W:140:SER:HG	1.64	0.45
2:3X:200:GLU:HA	2:3X:266:HIS:HB2	1.99	0.45
2:3Y:200:GLU:HA	2:3Y:266:HIS:HB2	1.98	0.45
1:4C:70:LEU:HD12	1:4C:99:ALA:HB2	1.98	0.45
1:4K:236:SER:O	1:4K:243:ARG:NH2	2.49	0.45
1:4M:147:SER:HB2	1:4M:190:THR:HB	1.99	0.45
1:4N:147:SER:HB2	1:4N:190:THR:HB	1.99	0.45
2:4U:228:ASN:HD21	5:4U:501:GDP:HN1	1.64	0.45
2:4Y:200:GLU:HA	2:4Y:266:HIS:HB2	1.98	0.45
1:1B:147:SER:HB2	1:1B:190:THR:HB	1.99	0.45
1:1C:260:VAL:C	2:4P:404:PHE:CD1	2.90	0.45
1:1C:439:SER:CB	2:4P:400:ARG:CD	2.94	0.45
1:1D:228:ASN:OD1	3:1D:501:GTP:N1	2.46	0.45
1:1D:262:TYR:CE1	2:4Q:403:ALA:HA	2.50	0.45
1:1F:121:ARG:NH1	1:1F:124:LYS:HD2	2.32	0.45
1:1F:324:VAL:HG13	2:4S:223:THR:HA	1.98	0.45
1:1G:121:ARG:NH1	1:1G:124:LYS:HD2	2.32	0.45
1:1J:70:LEU:HD12	1:1J:99:ALA:HB2	1.98	0.45
1:1K:236:SER:O	1:1K:243:ARG:NH2	2.49	0.45
1:1K:407:TRP:CE3	2:1W:257:VAL:HG22	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1M:407:TRP:CE3	2:1Y:257:VAL:HG22	2.52	0.45
2:1O:178:SER:CB	1:2B:349:THR:HB	2.47	0.45
1:2B:138:PHE:HZ	1:2B:235:VAL:HG11	1.80	0.45
1:2B:147:SER:HB2	1:2B:190:THR:HB	1.99	0.45
1:2G:70:LEU:HD12	1:2G:99:ALA:HB2	1.98	0.45
1:2G:121:ARG:NH1	1:2G:124:LYS:HD2	2.32	0.45
1:2L:147:SER:HB2	1:2L:190:THR:HB	1.99	0.45
1:2L:195:LEU:HD12	1:2L:266:HIS:HE1	1.82	0.45
2:2H:181:VAL:HG21	1:3A:314:ALA:HB1	1.99	0.45
2:2T:404:PHE:CD1	1:3G:260:VAL:C	2.89	0.45
2:2U:178:SER:OG	1:3I:351:PHE:N	2.50	0.45
2:2U:404:PHE:CE1	1:3I:261:PRO:HD3	2.52	0.45
2:2Y:404:PHE:CA	1:3M:261:PRO:HA	2.46	0.45
1:3B:138:PHE:HZ	1:3B:235:VAL:HG11	1.80	0.45
1:3L:147:SER:HB2	1:3L:190:THR:HB	1.99	0.45
2:3T:200:GLU:HA	2:3T:266:HIS:HB2	1.98	0.45
2:3W:200:GLU:HA	2:3W:266:HIS:HB2	1.98	0.45
1:4B:138:PHE:HZ	1:4B:235:VAL:HG11	1.80	0.45
1:4B:147:SER:HB2	1:4B:190:THR:HB	1.99	0.45
1:4F:121:ARG:NH1	1:4F:124:LYS:HD2	2.32	0.45
1:4G:121:ARG:NH1	1:4G:124:LYS:HD2	2.32	0.45
1:4J:70:LEU:HD12	1:4J:99:ALA:HB2	1.98	0.45
1:4L:195:LEU:HD12	1:4L:266:HIS:HE1	1.82	0.45
2:4W:200:GLU:HA	2:4W:266:HIS:HB2	1.99	0.45
2:4X:200:GLU:HA	2:4X:266:HIS:HB2	1.99	0.45
2:4Z:228:ASN:HD21	5:4Z:501:GDP:HN1	1.64	0.45
1:1A:147:SER:HB2	1:1A:190:THR:HB	1.99	0.45
1:1C:345:ASP:O	2:4P:397:ALA:HB1	2.17	0.45
1:1C:346:TRP:HE3	2:4P:398:MET:HG2	1.82	0.45
1:1C:346:TRP:CH2	2:4P:404:PHE:CE2	3.05	0.45
1:1E:261:PRO:HB2	2:4R:403:ALA:HB1	1.97	0.45
1:1F:346:TRP:CH2	2:4S:404:PHE:HE2	2.34	0.45
1:1G:261:PRO:CB	2:4T:404:PHE:CG	2.91	0.45
1:1G:314:ALA:HB1	2:4T:181:VAL:HG11	1.98	0.45
1:1I:407:TRP:CE3	2:1U:257:VAL:HG22	2.52	0.45
1:1L:147:SER:HB2	1:1L:190:THR:HB	1.99	0.45
1:1L:195:LEU:HD12	1:1L:266:HIS:HE1	1.82	0.45
1:1N:147:SER:HB2	1:1N:190:THR:HB	1.99	0.45
1:1N:407:TRP:CE3	2:1Z:257:VAL:HG22	2.52	0.45
2:1H:224:TYR:CE2	1:2A:248:LEU:HB2	2.50	0.45
2:1O:200:GLU:HA	2:1O:266:HIS:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1T:200:GLU:HA	2:1T:266:HIS:HB2	1.99	0.45
2:1V:228:ASN:HD21	5:1V:501:GDP:HN1	1.64	0.45
2:1W:200:GLU:HA	2:1W:266:HIS:HB2	1.99	0.45
2:1Y:178:SER:CB	1:2M:349:THR:HB	2.47	0.45
2:1Z:179:ASP:OD1	1:2N:248:LEU:HD21	2.17	0.45
2:1Z:228:ASN:HD21	5:1Z:501:GDP:HN1	1.64	0.45
1:2C:121:ARG:NH1	1:2C:124:LYS:HD2	2.32	0.45
1:2F:121:ARG:NH1	1:2F:124:LYS:HD2	2.32	0.45
1:2N:121:ARG:NH1	1:2N:124:LYS:HD2	2.32	0.45
2:2O:222:PRO:O	1:3B:324:VAL:HG13	2.17	0.45
2:2Q:181:VAL:HG11	1:3D:314:ALA:CB	2.47	0.45
2:2R:397:ALA:HB1	1:3E:346:TRP:HA	1.99	0.45
2:2S:178:SER:OG	1:3F:351:PHE:N	2.50	0.45
2:2U:101:ASN:HB3	1:3I:257:THR:HB	1.98	0.45
2:2W:200:GLU:HA	2:2W:266:HIS:HB2	1.99	0.45
2:2Y:200:GLU:HA	2:2Y:266:HIS:HB2	1.99	0.45
2:2Z:228:ASN:HD21	5:2Z:501:GDP:HN1	1.64	0.45
1:3A:147:SER:HB2	1:3A:190:THR:HB	1.99	0.45
1:3B:147:SER:HB2	1:3B:190:THR:HB	1.99	0.45
1:3D:228:ASN:OD1	3:3D:501:GTP:N1	2.46	0.45
1:3F:121:ARG:NH1	1:3F:124:LYS:HD2	2.32	0.45
1:3I:407:TRP:CE3	2:3U:257:VAL:HG22	2.52	0.45
1:3L:195:LEU:HD12	1:3L:266:HIS:HE1	1.82	0.45
1:3M:70:LEU:HD12	1:3M:99:ALA:HB2	1.98	0.45
1:3M:407:TRP:CE3	2:3Y:257:VAL:HG22	2.52	0.45
1:3N:121:ARG:NH1	1:3N:124:LYS:HD2	2.32	0.45
2:3Z:228:ASN:HD21	5:3Z:501:GDP:HN1	1.64	0.45
1:4A:147:SER:HB2	1:4A:190:THR:HB	1.99	0.45
1:4A:195:LEU:HD12	1:4A:266:HIS:HE1	1.82	0.45
1:4J:407:TRP:CE3	2:4V:257:VAL:HG22	2.52	0.45
1:4L:147:SER:HB2	1:4L:190:THR:HB	1.99	0.45
1:4L:407:TRP:CE3	2:4X:257:VAL:HG22	2.52	0.45
1:4M:407:TRP:CE3	2:4Y:257:VAL:HG22	2.52	0.45
1:4N:121:ARG:NH1	1:4N:124:LYS:HD2	2.32	0.45
2:4V:228:ASN:HD21	5:4V:501:GDP:HN1	1.64	0.45
1:1A:283:HIS:CG	1:1B:88:HIS:HA	2.52	0.45
1:1A:349:THR:CG2	2:4H:394:GLN:OE1	2.64	0.45
1:1B:121:ARG:NH1	1:1B:124:LYS:HD2	2.32	0.45
1:1B:261:PRO:CB	2:4O:404:PHE:N	2.80	0.45
1:1C:2:ARG:CZ	2:4P:73:GLY:HA3	2.47	0.45
1:1C:121:ARG:NH1	1:1C:124:LYS:HD2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1D:326:LYS:HE2	2:4Q:214:PHE:CB	2.23	0.45
1:1E:260:VAL:HG11	2:4R:407:TRP:HZ2	1.80	0.45
1:1F:172:TYR:N	1:1F:204:VAL:O	2.43	0.45
1:1I:262:TYR:C	2:4U:406:HIS:CD2	2.81	0.45
1:1J:314:ALA:CB	2:4V:181:VAL:HG11	2.47	0.45
1:1L:407:TRP:CE3	2:1X:257:VAL:HG22	2.52	0.45
1:1M:236:SER:O	1:1M:243:ARG:NH2	2.49	0.45
1:1N:263:PRO:CD	2:4Z:406:HIS:CE1	3.00	0.45
2:1U:180:THR:C	1:2I:258:ASN:ND2	2.65	0.45
2:1W:101:ASN:O	1:2K:257:THR:HG21	2.16	0.45
2:1Z:12:CYS:HG	2:1Z:140:SER:HG	1.64	0.45
1:2A:147:SER:HB2	1:2A:190:THR:HB	1.99	0.45
1:2A:195:LEU:HD12	1:2A:266:HIS:HE1	1.82	0.45
1:2A:283:HIS:CG	1:2B:88:HIS:HA	2.52	0.45
1:2A:407:TRP:CE3	2:2H:257:VAL:HG22	2.52	0.45
1:2C:147:SER:HB2	1:2C:190:THR:HB	1.99	0.45
1:2D:228:ASN:OD1	3:2D:501:GTP:N1	2.46	0.45
1:2E:121:ARG:NH1	1:2E:124:LYS:HD2	2.32	0.45
1:2I:407:TRP:CE3	2:2U:257:VAL:HG22	2.52	0.45
1:2J:236:SER:O	1:2J:243:ARG:NH2	2.49	0.45
1:2L:407:TRP:CE3	2:2X:257:VAL:HG22	2.52	0.45
1:2M:407:TRP:CE3	2:2Y:257:VAL:HG22	2.52	0.45
1:2N:195:LEU:HD12	1:2N:266:HIS:HE1	1.82	0.45
2:2H:404:PHE:HA	1:3A:261:PRO:HA	1.99	0.45
2:2Q:101:ASN:HB2	1:3D:254:GLU:HB3	1.99	0.45
2:2Q:182:VAL:HG21	1:3D:257:THR:HG22	1.99	0.45
2:2R:404:PHE:N	1:3E:261:PRO:CA	2.80	0.45
2:2S:73:GLY:HA3	1:3F:2:ARG:NH2	2.31	0.45
2:2S:210:TYR:CD2	1:3F:329:ASN:ND2	2.61	0.45
2:2T:200:GLU:HA	2:2T:266:HIS:HB2	1.99	0.45
1:3A:195:LEU:HD12	1:3A:266:HIS:HE1	1.82	0.45
1:3A:283:HIS:CG	1:3B:88:HIS:HA	2.52	0.45
1:3C:121:ARG:NH1	1:3C:124:LYS:HD2	2.32	0.45
1:3G:121:ARG:NH1	1:3G:124:LYS:HD2	2.32	0.45
1:3L:407:TRP:CE3	2:3X:257:VAL:HG22	2.52	0.45
1:3M:236:SER:O	1:3M:243:ARG:NH2	2.49	0.45
2:3V:228:ASN:HD21	5:3V:501:GDP:HN1	1.64	0.45
1:4A:283:HIS:CG	1:4B:88:HIS:HA	2.52	0.45
1:4C:121:ARG:NH1	1:4C:124:LYS:HD2	2.32	0.45
1:4C:147:SER:HB2	1:4C:190:THR:HB	1.99	0.45
1:4E:121:ARG:NH1	1:4E:124:LYS:HD2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4E:172:TYR:N	1:4E:204:VAL:O	2.43	0.45
1:4J:236:SER:O	1:4J:243:ARG:NH2	2.49	0.45
1:4M:70:LEU:HD12	1:4M:99:ALA:HB2	1.98	0.45
1:4N:407:TRP:CE3	2:4Z:257:VAL:HG22	2.52	0.45
2:4T:200:GLU:HA	2:4T:266:HIS:HB2	1.98	0.45
1:1A:195:LEU:HD12	1:1A:266:HIS:HE1	1.82	0.45
1:1A:407:TRP:CE3	2:1H:257:VAL:HG22	2.52	0.45
1:1B:346:TRP:HE3	2:4O:398:MET:HG2	1.82	0.45
1:1B:349:THR:HG21	2:4O:184:PRO:HG3	1.99	0.45
1:1C:2:ARG:HD3	2:4P:71:GLU:HB2	1.98	0.45
1:1C:147:SER:HB2	1:1C:190:THR:HB	1.99	0.45
1:1D:132:LEU:HD23	1:1D:164:LYS:HZ3	1.82	0.45
1:1E:121:ARG:NH1	1:1E:124:LYS:HD2	2.32	0.45
1:1E:195:LEU:HD12	1:1E:266:HIS:HE1	1.82	0.45
1:1E:257:THR:HG21	2:4R:102:ASN:HB2	1.98	0.45
1:1E:314:ALA:HB1	2:4R:181:VAL:CG2	2.44	0.45
1:1F:283:HIS:CG	1:1G:88:HIS:HA	2.52	0.45
1:1G:283:HIS:CG	1:1I:88:HIS:HA	2.52	0.45
1:1G:407:TRP:CE3	2:1T:257:VAL:HG22	2.52	0.45
1:1I:121:ARG:NH1	1:1I:124:LYS:HD2	2.32	0.45
1:1J:236:SER:O	1:1J:243:ARG:NH2	2.49	0.45
1:1J:348:PRO:HB2	2:4V:394:GLN:HG2	1.99	0.45
1:1M:121:ARG:NH1	1:1M:124:LYS:HD2	2.32	0.45
1:1N:121:ARG:NH1	1:1N:124:LYS:HD2	2.32	0.45
1:1N:195:LEU:HD12	1:1N:266:HIS:HE1	1.82	0.45
2:1R:223:THR:HA	1:2E:325:PRO:HD2	1.98	0.45
2:1U:157:ILE:O	2:1U:161:TYR:N	2.46	0.45
2:1V:403:ALA:HB2	1:2J:262:TYR:OH	2.14	0.45
2:1W:176:LYS:NZ	1:2K:333:ALA:HB1	2.32	0.45
2:1W:181:VAL:CG1	1:2K:258:ASN:O	2.64	0.45
2:1W:403:ALA:HB2	1:2K:262:TYR:CE1	2.45	0.45
2:1X:224:TYR:CE2	1:2L:247:ALA:C	2.88	0.45
1:2E:283:HIS:CG	1:2F:88:HIS:HA	2.52	0.45
1:2G:283:HIS:CG	1:2I:88:HIS:HA	2.52	0.45
1:2I:121:ARG:NH1	1:2I:124:LYS:HD2	2.32	0.45
1:2M:236:SER:O	1:2M:243:ARG:NH2	2.49	0.45
1:2N:407:TRP:CE3	2:2Z:257:VAL:HG22	2.52	0.45
2:2O:72:PRO:CD	1:3B:2:ARG:CG	2.92	0.45
2:2O:406:HIS:CD2	1:3B:263:PRO:N	2.84	0.45
2:2R:394:GLN:CB	1:3E:348:PRO:CG	2.95	0.45
2:2S:221:THR:CA	1:3F:324:VAL:HG11	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2S:394:GLN:CB	1:3F:348:PRO:HG2	2.47	0.45
2:2U:178:SER:CB	1:3I:349:THR:CA	2.95	0.45
2:2V:228:ASN:HD21	5:2V:501:GDP:HN1	1.64	0.45
2:2W:72:PRO:CD	1:3K:2:ARG:CG	2.95	0.45
2:2W:178:SER:CB	1:3K:349:THR:CA	2.95	0.45
2:2X:404:PHE:CA	1:3L:261:PRO:HA	2.47	0.45
1:3A:88:HIS:HA	1:3N:283:HIS:CG	2.52	0.45
1:3A:407:TRP:CE3	2:3H:257:VAL:HG22	2.52	0.45
1:3B:121:ARG:NH1	1:3B:124:LYS:HD2	2.32	0.45
1:3B:407:TRP:CE3	2:3O:257:VAL:HG22	2.52	0.45
1:3C:147:SER:HB2	1:3C:190:THR:HB	1.99	0.45
1:3E:121:ARG:NH1	1:3E:124:LYS:HD2	2.32	0.45
1:3E:195:LEU:HD12	1:3E:266:HIS:HE1	1.82	0.45
1:3E:283:HIS:CG	1:3F:88:HIS:HA	2.52	0.45
1:3F:172:TYR:N	1:3F:204:VAL:O	2.43	0.45
1:3F:283:HIS:CG	1:3G:88:HIS:HA	2.52	0.45
1:3I:121:ARG:NH1	1:3I:124:LYS:HD2	2.32	0.45
1:3I:283:HIS:CG	1:3J:88:HIS:HA	2.52	0.45
1:3J:236:SER:O	1:3J:243:ARG:NH2	2.49	0.45
1:3M:121:ARG:NH1	1:3M:124:LYS:HD2	2.32	0.45
1:3N:195:LEU:HD12	1:3N:266:HIS:HE1	1.82	0.45
1:3N:407:TRP:CE3	2:3Z:257:VAL:HG22	2.52	0.45
1:4A:88:HIS:HA	1:4N:283:HIS:CG	2.52	0.45
1:4A:407:TRP:CE3	2:4H:257:VAL:HG22	2.52	0.45
1:4B:121:ARG:NH1	1:4B:124:LYS:HD2	2.32	0.45
1:4B:407:TRP:CE3	2:4O:257:VAL:HG22	2.52	0.45
1:4C:407:TRP:CE3	2:4P:257:VAL:HG22	2.52	0.45
1:4D:228:ASN:OD1	3:4D:501:GTP:N1	2.46	0.45
1:4E:195:LEU:HD12	1:4E:266:HIS:HE1	1.82	0.45
1:4E:283:HIS:CG	1:4F:88:HIS:HA	2.52	0.45
1:4F:283:HIS:CG	1:4G:88:HIS:HA	2.52	0.45
1:4I:132:LEU:HD23	1:4I:164:LYS:HZ3	1.82	0.45
1:4I:407:TRP:CE3	2:4U:257:VAL:HG22	2.52	0.45
1:4K:334:THR:O	1:4K:337:THR:OG1	2.32	0.45
2:4V:200:GLU:HA	2:4V:266:HIS:HB2	1.98	0.45
1:1A:88:HIS:HA	1:1N:283:HIS:CG	2.52	0.45
1:1B:2:ARG:HG3	2:4O:72:PRO:HG3	1.88	0.45
1:1B:261:PRO:C	2:4O:404:PHE:N	2.57	0.45
1:1B:283:HIS:CG	1:1C:88:HIS:HA	2.52	0.45
1:1B:407:TRP:CE3	2:1O:257:VAL:HG22	2.52	0.45
1:1C:316:CYS:HB3	1:1C:378:LEU:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:325:PRO:HB3	2:4P:224:TYR:CE1	2.52	0.45
1:1E:283:HIS:CG	1:1F:88:HIS:HA	2.52	0.45
1:1G:195:LEU:HD12	1:1G:266:HIS:HE1	1.82	0.45
1:1I:283:HIS:CG	1:1J:88:HIS:HA	2.52	0.45
1:1I:325:PRO:HB3	2:4U:224:TYR:CZ	2.51	0.45
1:1J:346:TRP:CZ3	2:4V:403:ALA:CB	3.00	0.45
1:1J:348:PRO:HD2	2:4V:398:MET:SD	2.57	0.45
1:1K:349:THR:OG1	2:4W:181:VAL:O	2.30	0.45
2:1W:394:GLN:HG2	1:2K:348:PRO:HG3	1.98	0.45
2:1X:36:TYR:OH	2:1X:40:SER:O	2.33	0.45
2:1X:224:TYR:OH	1:2L:248:LEU:CD2	2.51	0.45
1:2A:88:HIS:HA	1:2N:283:HIS:CG	2.52	0.45
1:2B:70:LEU:HD12	1:2B:99:ALA:HB2	1.98	0.45
1:2B:121:ARG:NH1	1:2B:124:LYS:HD2	2.32	0.45
1:2B:283:HIS:CG	1:2C:88:HIS:HA	2.52	0.45
1:2B:407:TRP:CE3	2:2O:257:VAL:HG22	2.52	0.45
1:2C:316:CYS:HB3	1:2C:378:LEU:HB2	1.99	0.45
1:2D:132:LEU:HD23	1:2D:164:LYS:HZ3	1.82	0.45
1:2E:195:LEU:HD12	1:2E:266:HIS:HE1	1.82	0.45
1:2F:283:HIS:CG	1:2G:88:HIS:HA	2.52	0.45
1:2G:407:TRP:CE3	2:2T:257:VAL:HG22	2.52	0.45
1:2I:195:LEU:HD12	1:2I:266:HIS:HE1	1.82	0.45
1:2I:283:HIS:CG	1:2J:88:HIS:HA	2.52	0.45
1:2L:132:LEU:HD23	1:2L:164:LYS:HZ3	1.82	0.45
1:2M:121:ARG:NH1	1:2M:124:LYS:HD2	2.32	0.45
2:2S:397:ALA:HB1	1:3F:346:TRP:HA	1.99	0.45
2:2U:100:GLY:CA	1:3I:253:THR:CB	2.81	0.45
2:2U:157:ILE:O	2:2U:161:TYR:N	2.46	0.45
2:2V:200:GLU:HA	2:2V:266:HIS:HB2	1.98	0.45
2:2W:101:ASN:HB3	1:3K:257:THR:HB	1.97	0.45
2:2W:397:ALA:O	1:3K:346:TRP:CB	2.64	0.45
2:2X:11:GLN:NE2	1:3L:249:ASN:HB2	2.32	0.45
2:2Z:178:SER:HB2	1:3N:349:THR:HB	1.99	0.45
2:2Z:406:HIS:ND1	1:3N:263:PRO:HB3	2.32	0.45
1:3B:70:LEU:HD12	1:3B:99:ALA:HB2	1.98	0.45
1:3B:283:HIS:CG	1:3C:88:HIS:HA	2.52	0.45
1:3D:132:LEU:HD23	1:3D:164:LYS:HZ3	1.82	0.45
1:3G:195:LEU:HD12	1:3G:266:HIS:HE1	1.82	0.45
1:3G:283:HIS:CG	1:3I:88:HIS:HA	2.52	0.45
1:3G:407:TRP:CE3	2:3T:257:VAL:HG22	2.52	0.45
1:3K:195:LEU:HD12	1:3K:266:HIS:HE1	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3X:36:TYR:OH	2:3X:40:SER:O	2.33	0.45
1:4B:283:HIS:CG	1:4C:88:HIS:HA	2.52	0.45
1:4G:195:LEU:HD12	1:4G:266:HIS:HE1	1.82	0.45
1:4G:283:HIS:CG	1:4I:88:HIS:HA	2.52	0.45
1:4I:121:ARG:NH1	1:4I:124:LYS:HD2	2.32	0.45
1:4I:283:HIS:CG	1:4J:88:HIS:HA	2.52	0.45
1:4M:236:SER:O	1:4M:243:ARG:NH2	2.49	0.45
1:1B:70:LEU:HD12	1:1B:99:ALA:HB2	1.98	0.44
1:1C:347:CYS:HA	2:4P:398:MET:HG2	1.99	0.44
1:1C:407:TRP:CE3	2:1P:257:VAL:HG22	2.52	0.44
1:1E:352:LYS:HA	2:4R:180:THR:HA	1.98	0.44
1:1E:439:SER:CB	2:4R:400:ARG:HD3	2.48	0.44
1:1F:407:TRP:CE3	2:1S:257:VAL:HG22	2.52	0.44
1:1G:49:PHE:HB2	1:1G:53:PHE:HB2	1.99	0.44
1:1I:70:LEU:HD12	1:1I:99:ALA:HB2	1.98	0.44
1:1I:195:LEU:HD12	1:1I:266:HIS:HE1	1.82	0.44
1:1J:262:TYR:OH	2:4V:401:ARG:O	2.30	0.44
1:1J:329:ASN:ND2	2:4V:210:TYR:CE2	2.78	0.44
1:1K:195:LEU:HD12	1:1K:266:HIS:HE1	1.82	0.44
1:1K:249:ASN:N	2:4W:11:GLN:OE1	2.45	0.44
1:1N:2:ARG:CG	2:4Z:72:PRO:HD2	2.47	0.44
1:1N:261:PRO:CA	2:4Z:404:PHE:CE1	2.98	0.44
1:1N:326:LYS:CG	2:4Z:222:PRO:CG	2.95	0.44
2:1H:36:TYR:OH	2:1H:40:SER:O	2.33	0.44
2:1Q:192:HIS:HD2	2:1Q:424:ASN:HD22	1.65	0.44
2:1U:101:ASN:O	1:2I:257:THR:HG21	2.17	0.44
2:1V:200:GLU:HA	2:1V:266:HIS:HB2	1.98	0.44
2:1V:214:PHE:CB	1:2J:326:LYS:CE	2.68	0.44
2:1Z:200:GLU:HA	2:1Z:266:HIS:HB2	1.98	0.44
1:2C:407:TRP:CE3	2:2P:257:VAL:HG22	2.52	0.44
1:2D:283:HIS:CG	1:2E:88:HIS:HA	2.52	0.44
1:2F:172:TYR:N	1:2F:204:VAL:O	2.44	0.44
1:2G:195:LEU:HD12	1:2G:266:HIS:HE1	1.82	0.44
1:2I:70:LEU:HD12	1:2I:99:ALA:HB2	1.98	0.44
1:2K:195:LEU:HD12	1:2K:266:HIS:HE1	1.82	0.44
1:2K:334:THR:O	1:2K:337:THR:OG1	2.32	0.44
2:2O:181:VAL:HG21	1:3B:314:ALA:HB1	1.98	0.44
2:2O:224:TYR:CD2	1:3B:247:ALA:HB1	2.51	0.44
2:2O:407:TRP:NE1	1:3B:260:VAL:HB	2.27	0.44
2:2P:181:VAL:HB	1:3C:258:ASN:O	2.16	0.44
2:2P:192:HIS:HD2	2:2P:424:ASN:HD22	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2S:214:PHE:CG	1:3F:326:LYS:CE	3.00	0.44
2:2Z:404:PHE:CE1	1:3N:261:PRO:CA	2.99	0.44
1:3C:316:CYS:HB3	1:3C:378:LEU:HB2	2.00	0.44
1:3C:407:TRP:CE3	2:3P:257:VAL:HG22	2.52	0.44
1:3D:283:HIS:CG	1:3E:88:HIS:HA	2.52	0.44
1:3I:195:LEU:HD12	1:3I:266:HIS:HE1	1.82	0.44
1:3K:334:THR:O	1:3K:337:THR:OG1	2.32	0.44
1:3L:132:LEU:HD23	1:3L:164:LYS:HZ3	1.82	0.44
2:3H:36:TYR:OH	2:3H:40:SER:O	2.33	0.44
2:3U:157:ILE:O	2:3U:161:TYR:N	2.46	0.44
1:4C:316:CYS:HB3	1:4C:378:LEU:HB2	1.99	0.44
1:4D:132:LEU:HD23	1:4D:164:LYS:HZ3	1.82	0.44
1:4D:195:LEU:HD12	1:4D:266:HIS:HE1	1.82	0.44
1:4D:283:HIS:CG	1:4E:88:HIS:HA	2.52	0.44
1:4G:49:PHE:HB2	1:4G:53:PHE:HB2	1.99	0.44
1:4I:70:LEU:HD12	1:4I:99:ALA:HB2	1.98	0.44
1:4I:195:LEU:HD12	1:4I:266:HIS:HE1	1.82	0.44
1:4M:121:ARG:NH1	1:4M:124:LYS:HD2	2.32	0.44
1:4N:195:LEU:HD12	1:4N:266:HIS:HE1	1.82	0.44
2:4X:36:TYR:OH	2:4X:40:SER:O	2.33	0.44
1:1D:283:HIS:CG	1:1E:88:HIS:HA	2.52	0.44
1:1J:121:ARG:NH1	1:1J:124:LYS:HD2	2.32	0.44
1:1J:283:HIS:CG	1:1K:88:HIS:HA	2.52	0.44
1:1L:132:LEU:HD23	1:1L:164:LYS:HZ3	1.82	0.44
1:1L:346:TRP:O	2:4X:398:MET:CB	2.62	0.44
2:1P:192:HIS:HD2	2:1P:424:ASN:HD22	1.65	0.44
2:1T:11:GLN:NE2	1:2G:249:ASN:HB2	2.33	0.44
2:1U:200:GLU:HA	2:1U:266:HIS:HB2	1.98	0.44
2:1U:205:ASP:OD2	2:1U:304:ALA:N	2.35	0.44
2:1U:224:TYR:CE2	1:2I:247:ALA:O	2.70	0.44
2:1W:228:ASN:HD21	5:1W:501:GDP:HN1	1.64	0.44
1:2D:195:LEU:HD12	1:2D:266:HIS:HE1	1.82	0.44
1:2G:49:PHE:HB2	1:2G:53:PHE:HB2	1.99	0.44
2:2H:36:TYR:OH	2:2H:40:SER:O	2.33	0.44
2:2O:181:VAL:N	1:3B:258:ASN:HD22	2.16	0.44
2:2P:404:PHE:CD1	1:3C:260:VAL:C	2.90	0.44
2:2Q:192:HIS:HD2	2:2Q:424:ASN:HD22	1.65	0.44
2:2U:336:GLN:HE22	2:2U:349:ASN:H	1.62	0.44
1:3F:407:TRP:CE3	2:3S:257:VAL:HG22	2.52	0.44
1:3G:49:PHE:HB2	1:3G:53:PHE:HB2	1.99	0.44
1:3I:70:LEU:HD12	1:3I:99:ALA:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3P:192:HIS:HD2	2:3P:424:ASN:HD22	1.65	0.44
2:3P:195:VAL:HG23	2:3P:196:GLU:HG2	2.00	0.44
2:3Q:192:HIS:HD2	2:3Q:424:ASN:HD22	1.65	0.44
2:3V:200:GLU:HA	2:3V:266:HIS:HB2	1.98	0.44
2:3W:228:ASN:HD21	5:3W:501:GDP:HN1	1.64	0.44
1:4B:70:LEU:HD12	1:4B:99:ALA:HB2	1.98	0.44
1:4D:407:TRP:CE3	2:4Q:257:VAL:HG22	2.52	0.44
1:4F:172:TYR:N	1:4F:204:VAL:O	2.43	0.44
1:4F:316:CYS:HB3	1:4F:378:LEU:HB2	1.99	0.44
1:4G:407:TRP:CE3	2:4T:257:VAL:HG22	2.52	0.44
1:4K:195:LEU:HD12	1:4K:266:HIS:HE1	1.82	0.44
1:4L:132:LEU:HD23	1:4L:164:LYS:HZ3	1.82	0.44
2:4Q:192:HIS:HD2	2:4Q:424:ASN:HD22	1.65	0.44
2:4U:157:ILE:O	2:4U:161:TYR:N	2.46	0.44
2:4U:336:GLN:HE22	2:4U:349:ASN:H	1.62	0.44
1:1C:195:LEU:HD12	1:1C:266:HIS:HE1	1.82	0.44
1:1C:261:PRO:N	2:4P:404:PHE:CE1	2.85	0.44
1:1D:248:LEU:HB2	2:4Q:224:TYR:CE2	2.46	0.44
1:1E:79:ARG:NH2	1:1E:92:LEU:O	2.41	0.44
1:1E:316:CYS:HB3	1:1E:378:LEU:HB2	2.00	0.44
1:1F:79:ARG:NH2	1:1F:92:LEU:O	2.41	0.44
1:1F:316:CYS:HB3	1:1F:378:LEU:HB2	2.00	0.44
1:1I:326:LYS:HG3	2:4U:222:PRO:HG2	1.99	0.44
1:1K:346:TRP:CD2	2:4W:403:ALA:HB3	2.53	0.44
1:1K:350:GLY:C	2:4W:181:VAL:HG22	2.37	0.44
2:1P:195:VAL:HG23	2:1P:196:GLU:HG2	2.00	0.44
2:1U:336:GLN:HE22	2:1U:349:ASN:H	1.62	0.44
2:1W:179:ASP:O	1:2K:352:LYS:HD3	2.14	0.44
2:1W:404:PHE:CE1	1:2K:261:PRO:CA	3.00	0.44
2:1W:406:HIS:HD2	1:2K:263:PRO:HD3	1.77	0.44
2:1X:165:ILE:H	2:1X:165:ILE:HG13	1.70	0.44
2:1X:401:ARG:NH2	1:2L:434:GLU:HG2	2.32	0.44
2:1Y:207:GLU:CD	1:2M:329:ASN:ND2	2.63	0.44
2:1Z:11:GLN:NE2	1:2N:249:ASN:HD22	2.13	0.44
1:2C:195:LEU:HD12	1:2C:266:HIS:HE1	1.82	0.44
1:2D:407:TRP:CE3	2:2Q:257:VAL:HG22	2.52	0.44
1:2F:316:CYS:HB3	1:2F:378:LEU:HB2	2.00	0.44
1:2F:407:TRP:CE3	2:2S:257:VAL:HG22	2.52	0.44
1:2J:121:ARG:NH1	1:2J:124:LYS:HD2	2.32	0.44
1:2J:283:HIS:CG	1:2K:88:HIS:HA	2.52	0.44
2:2Q:73:GLY:HA3	1:3D:2:ARG:NH2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2S:404:PHE:H	1:3F:261:PRO:CA	2.30	0.44
2:2S:404:PHE:CE1	1:3F:260:VAL:C	2.90	0.44
2:2V:101:ASN:ND2	1:3J:258:ASN:ND2	2.65	0.44
2:2V:181:VAL:CB	1:3J:258:ASN:O	2.65	0.44
2:2W:181:VAL:H	1:3K:258:ASN:ND2	2.14	0.44
2:2W:181:VAL:N	1:3K:258:ASN:HD22	2.15	0.44
5:2W:501:GDP:C8	1:3K:248:LEU:CD1	2.98	0.44
1:3C:195:LEU:HD12	1:3C:266:HIS:HE1	1.82	0.44
1:3D:195:LEU:HD12	1:3D:266:HIS:HE1	1.82	0.44
1:3D:407:TRP:CE3	2:3Q:257:VAL:HG22	2.52	0.44
1:3E:316:CYS:HB3	1:3E:378:LEU:HB2	1.99	0.44
1:3J:121:ARG:NH1	1:3J:124:LYS:HD2	2.32	0.44
2:3U:200:GLU:HA	2:3U:266:HIS:HB2	1.98	0.44
2:3Z:200:GLU:HA	2:3Z:266:HIS:HB2	1.98	0.44
1:4C:283:HIS:CG	1:4D:88:HIS:HA	2.52	0.44
1:4E:316:CYS:HB3	1:4E:378:LEU:HB2	2.00	0.44
1:4J:147:SER:HB2	1:4J:190:THR:HB	1.99	0.44
1:4L:236:SER:O	1:4L:243:ARG:NH2	2.49	0.44
2:4H:36:TYR:OH	2:4H:40:SER:O	2.33	0.44
1:1C:351:PHE:O	2:4P:179:ASP:C	2.54	0.44
1:1D:407:TRP:CE3	2:1Q:257:VAL:HG22	2.52	0.44
1:1E:261:PRO:C	2:4R:404:PHE:CA	2.85	0.44
1:1E:261:PRO:O	2:4R:406:HIS:CD2	2.70	0.44
1:1K:251:ASP:OD2	2:4W:98:GLY:HA3	2.16	0.44
1:1K:334:THR:O	1:1K:337:THR:OG1	2.32	0.44
2:1O:394:GLN:HG2	1:2B:348:PRO:CG	2.47	0.44
2:1V:404:PHE:HE1	1:2J:260:VAL:C	2.05	0.44
2:1Y:100:GLY:CA	1:2M:253:THR:HG22	2.40	0.44
2:1Y:403:ALA:CA	1:2M:261:PRO:O	2.65	0.44
1:2A:70:LEU:HD12	1:2A:99:ALA:HB2	1.98	0.44
1:2D:121:ARG:NH1	1:2D:124:LYS:HD2	2.32	0.44
1:2E:316:CYS:HB3	1:2E:378:LEU:HB2	2.00	0.44
1:2J:147:SER:HB2	1:2J:190:THR:HB	1.99	0.44
1:2K:147:SER:HB2	1:2K:190:THR:HB	1.99	0.44
1:2L:236:SER:O	1:2L:243:ARG:NH2	2.49	0.44
2:2P:195:VAL:HG23	2:2P:196:GLU:HG2	2.00	0.44
2:2R:195:VAL:HG23	2:2R:196:GLU:HG2	2.00	0.44
2:2U:200:GLU:HA	2:2U:266:HIS:HB2	1.98	0.44
2:2V:178:SER:CB	1:3J:349:THR:HB	2.47	0.44
2:2X:11:GLN:HE22	1:3L:249:ASN:CB	2.29	0.44
2:2X:207:GLU:CD	1:3L:329:ASN:HD21	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Y:11:GLN:CD	1:3M:249:ASN:HB2	2.38	0.44
2:2Y:72:PRO:HD2	1:3M:2:ARG:CD	2.47	0.44
2:2Z:200:GLU:HA	2:2Z:266:HIS:HB2	1.98	0.44
1:3F:316:CYS:HB3	1:3F:378:LEU:HB2	2.00	0.44
1:3J:147:SER:HB2	1:3J:190:THR:HB	1.99	0.44
1:3J:283:HIS:CG	1:3K:88:HIS:HA	2.52	0.44
1:3L:236:SER:O	1:3L:243:ARG:NH2	2.49	0.44
1:3N:132:LEU:HD23	1:3N:164:LYS:HZ3	1.83	0.44
2:3R:195:VAL:HG23	2:3R:196:GLU:HG2	2.00	0.44
2:3U:336:GLN:HE22	2:3U:349:ASN:H	1.63	0.44
2:3Y:228:ASN:HD21	5:3Y:501:GDP:HN1	1.64	0.44
1:4A:70:LEU:HD12	1:4A:99:ALA:HB2	1.98	0.44
1:4D:121:ARG:NH1	1:4D:124:LYS:HD2	2.32	0.44
1:4F:79:ARG:NH2	1:4F:92:LEU:O	2.41	0.44
1:4F:407:TRP:CE3	2:4S:257:VAL:HG22	2.52	0.44
1:4J:121:ARG:NH1	1:4J:124:LYS:HD2	2.32	0.44
1:4J:283:HIS:CG	1:4K:88:HIS:HA	2.52	0.44
2:4H:200:GLU:HA	2:4H:266:HIS:HB2	1.98	0.44
2:4P:192:HIS:HD2	2:4P:424:ASN:HD22	1.65	0.44
2:4P:195:VAL:HG23	2:4P:196:GLU:HG2	2.00	0.44
2:4R:195:VAL:HG23	2:4R:196:GLU:HG2	2.00	0.44
2:4W:228:ASN:HD21	5:4W:501:GDP:HN1	1.64	0.44
2:4Z:195:VAL:HG23	2:4Z:196:GLU:HG2	2.00	0.44
1:1C:249:ASN:HB2	2:4P:11:GLN:OE1	2.17	0.44
1:1C:283:HIS:CG	1:1D:88:HIS:HA	2.52	0.44
1:1D:147:SER:HB2	1:1D:190:THR:HB	1.99	0.44
1:1D:195:LEU:HD12	1:1D:266:HIS:HE1	1.82	0.44
1:1D:247:ALA:C	2:4Q:15:GLN:HE22	2.19	0.44
1:1D:348:PRO:HD2	2:4Q:398:MET:HG3	1.99	0.44
1:1G:439:SER:HB2	2:4T:400:ARG:HD2	1.99	0.44
1:1I:325:PRO:O	2:4U:210:TYR:OH	2.26	0.44
1:1I:346:TRP:CZ3	2:4U:403:ALA:HB1	2.52	0.44
1:1J:147:SER:HB2	1:1J:190:THR:HB	1.99	0.44
1:1J:258:ASN:HD21	2:4V:101:ASN:CG	2.21	0.44
1:1K:49:PHE:HB2	1:1K:53:PHE:HB2	1.99	0.44
1:1K:147:SER:HB2	1:1K:190:THR:HB	1.99	0.44
1:1K:399:TYR:OH	1:1K:415:GLU:OE2	2.25	0.44
1:1L:236:SER:O	1:1L:243:ARG:NH2	2.49	0.44
1:1M:257:THR:HG21	2:4Y:101:ASN:C	2.38	0.44
1:1N:132:LEU:HD23	1:1N:164:LYS:HZ3	1.83	0.44
1:1N:261:PRO:CB	2:4Z:404:PHE:CE1	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1N:261:PRO:HD3	2:4Z:404:PHE:CE1	2.52	0.44
2:1H:195:VAL:HG23	2:1H:196:GLU:HG2	2.00	0.44
2:1P:222:PRO:HD2	1:2C:326:LYS:HB2	1.98	0.44
2:1Q:223:THR:HA	1:2D:325:PRO:HD2	2.00	0.44
2:1R:195:VAL:HG23	2:1R:196:GLU:HG2	2.00	0.44
2:1Y:224:TYR:CZ	1:2M:248:LEU:HB2	2.52	0.44
2:1Y:404:PHE:CZ	1:2M:261:PRO:CA	3.01	0.44
2:1Z:101:ASN:ND2	1:2N:258:ASN:OD1	2.50	0.44
1:2C:283:HIS:CG	1:2D:88:HIS:HA	2.52	0.44
1:2D:147:SER:HB2	1:2D:190:THR:HB	1.99	0.44
1:2E:79:ARG:NH2	1:2E:92:LEU:O	2.41	0.44
1:2F:79:ARG:NH2	1:2F:92:LEU:O	2.41	0.44
1:2N:132:LEU:HD23	1:2N:164:LYS:HZ3	1.83	0.44
2:2H:195:VAL:HG23	2:2H:196:GLU:HG2	2.00	0.44
2:2H:200:GLU:HA	2:2H:266:HIS:HB2	1.99	0.44
2:2H:406:HIS:NE2	1:3A:262:TYR:C	2.71	0.44
2:2Q:101:ASN:HB2	1:3D:254:GLU:CG	2.47	0.44
2:2T:178:SER:OG	1:3G:351:PHE:N	2.50	0.44
2:2T:222:PRO:O	1:3G:324:VAL:CG1	2.66	0.44
2:2W:228:ASN:HD21	5:2W:501:GDP:HN1	1.64	0.44
2:2Y:11:GLN:NE2	1:3M:249:ASN:HB2	2.33	0.44
2:2Y:228:ASN:HD21	5:2Y:501:GDP:HN1	1.64	0.44
1:3A:70:LEU:HD12	1:3A:99:ALA:HB2	1.98	0.44
1:3B:195:LEU:HD12	1:3B:266:HIS:HE1	1.82	0.44
1:3D:121:ARG:NH1	1:3D:124:LYS:HD2	2.32	0.44
1:3D:147:SER:HB2	1:3D:190:THR:HB	1.99	0.44
1:3E:79:ARG:NH2	1:3E:92:LEU:O	2.41	0.44
1:3F:79:ARG:NH2	1:3F:92:LEU:O	2.41	0.44
1:3K:147:SER:HB2	1:3K:190:THR:HB	1.99	0.44
2:3H:200:GLU:HA	2:3H:266:HIS:HB2	1.98	0.44
2:3Z:195:VAL:HG23	2:3Z:196:GLU:HG2	2.00	0.44
1:4B:195:LEU:HD12	1:4B:266:HIS:HE1	1.82	0.44
1:4C:195:LEU:HD12	1:4C:266:HIS:HE1	1.82	0.44
1:4E:79:ARG:NH2	1:4E:92:LEU:O	2.41	0.44
1:4E:132:LEU:HD23	1:4E:164:LYS:HZ3	1.83	0.44
1:4E:407:TRP:CE3	2:4R:257:VAL:HG22	2.52	0.44
1:4I:49:PHE:HB2	1:4I:53:PHE:HB2	1.99	0.44
1:4K:147:SER:HB2	1:4K:190:THR:HB	1.99	0.44
1:4N:70:LEU:HD12	1:4N:99:ALA:HB2	1.98	0.44
1:4N:132:LEU:HD23	1:4N:164:LYS:HZ3	1.83	0.44
2:4H:195:VAL:HG23	2:4H:196:GLU:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4U:200:GLU:HA	2:4U:266:HIS:HB2	1.98	0.44
2:4Y:228:ASN:HD21	5:4Y:501:GDP:HN1	1.64	0.44
2:4Z:200:GLU:HA	2:4Z:266:HIS:HB2	1.98	0.44
1:1A:2:ARG:CD	2:4H:72:PRO:CD	2.84	0.44
1:1A:70:LEU:HD12	1:1A:99:ALA:HB2	1.98	0.44
1:1A:349:THR:O	2:4H:181:VAL:HA	2.18	0.44
1:1B:195:LEU:HD12	1:1B:266:HIS:HE1	1.82	0.44
1:1B:316:CYS:HB3	1:1B:378:LEU:HB2	2.00	0.44
1:1B:324:VAL:HG21	2:4O:221:THR:HG1	1.73	0.44
1:1B:351:PHE:O	2:4O:179:ASP:C	2.54	0.44
1:1C:324:VAL:HG11	2:4P:222:PRO:N	2.33	0.44
1:1D:121:ARG:NH1	1:1D:124:LYS:HD2	2.32	0.44
1:1E:147:SER:HB2	1:1E:190:THR:HB	1.99	0.44
1:1F:325:PRO:CG	2:4S:224:TYR:CD1	2.99	0.44
1:1I:316:CYS:HB3	1:1I:378:LEU:HB2	2.00	0.44
2:1R:394:GLN:HG2	1:2E:348:PRO:HG3	2.00	0.44
2:1V:221:THR:CB	1:2J:324:VAL:CG2	2.72	0.44
2:1W:12:CYS:HG	2:1W:140:SER:HG	1.66	0.44
2:1W:224:TYR:OH	1:2K:248:LEU:HD13	2.18	0.44
2:1X:228:ASN:HD21	5:1X:501:GDP:HN1	1.64	0.44
2:1Y:228:ASN:HD21	5:1Y:501:GDP:HN1	1.64	0.44
2:1Z:195:VAL:HG23	2:1Z:196:GLU:HG2	2.00	0.44
1:2B:195:LEU:HD12	1:2B:266:HIS:HE1	1.82	0.44
1:2B:316:CYS:HB3	1:2B:378:LEU:HB2	1.99	0.44
1:2E:407:TRP:CE3	2:2R:257:VAL:HG22	2.52	0.44
1:2I:49:PHE:HB2	1:2I:53:PHE:HB2	1.99	0.44
2:2H:181:VAL:HB	1:3A:258:ASN:O	2.18	0.44
2:2Q:397:ALA:HB1	1:3D:346:TRP:HA	1.99	0.44
2:2Q:398:MET:HG2	1:3D:346:TRP:O	2.17	0.44
2:2R:181:VAL:HB	1:3E:258:ASN:O	2.18	0.44
2:2S:404:PHE:CG	1:3F:261:PRO:HB3	2.45	0.44
2:2W:178:SER:HB3	1:3K:349:THR:CA	2.47	0.44
2:2X:192:HIS:HD2	2:2X:424:ASN:HD22	1.65	0.44
2:2X:228:ASN:HD21	5:2X:501:GDP:HN1	1.64	0.44
2:2X:397:ALA:O	1:3L:346:TRP:CB	2.66	0.44
2:2Y:397:ALA:O	1:3M:346:TRP:CB	2.64	0.44
2:2Z:195:VAL:HG23	2:2Z:196:GLU:HG2	2.00	0.44
2:2Z:406:HIS:NE2	1:3N:262:TYR:C	2.71	0.44
1:3B:316:CYS:HB3	1:3B:378:LEU:HB2	1.99	0.44
1:3C:283:HIS:CG	1:3D:88:HIS:HA	2.52	0.44
2:3H:195:VAL:HG23	2:3H:196:GLU:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3X:228:ASN:HD21	5:3X:501:GDP:HN1	1.64	0.44
1:4B:316:CYS:HB3	1:4B:378:LEU:HB2	2.00	0.44
1:4D:147:SER:HB2	1:4D:190:THR:HB	1.99	0.44
1:1D:133:GLN:HG2	2:4Q:97:SER:HA	2.00	0.44
1:1D:346:TRP:O	2:4Q:398:MET:CB	2.62	0.44
1:1E:254:GLU:CA	2:4R:100:GLY:C	2.79	0.44
1:1E:349:THR:HG23	2:4R:184:PRO:HG3	1.95	0.44
1:1E:407:TRP:CE3	2:1R:257:VAL:HG22	2.52	0.44
1:1F:326:LYS:CA	2:4S:210:TYR:CD1	2.98	0.44
1:1G:172:TYR:N	1:1G:204:VAL:O	2.43	0.44
1:1I:49:PHE:HB2	1:1I:53:PHE:HB2	1.99	0.44
1:1I:258:ASN:HD21	2:4U:180:THR:HG23	1.81	0.44
1:1L:121:ARG:NH1	1:1L:124:LYS:HD2	2.32	0.44
1:1L:346:TRP:HZ3	2:4X:404:PHE:HD2	1.53	0.44
2:1H:200:GLU:HA	2:1H:266:HIS:HB2	1.98	0.44
2:1H:222:PRO:HG2	1:2A:326:LYS:HB2	1.99	0.44
2:1O:36:TYR:OH	2:1O:40:SER:O	2.33	0.44
2:1Q:195:VAL:HG23	2:1Q:196:GLU:HG2	2.00	0.44
2:1S:195:VAL:HG23	2:1S:196:GLU:HG2	2.00	0.44
2:1Y:394:GLN:CD	1:2M:349:THR:HG23	2.38	0.44
1:2E:147:SER:HB2	1:2E:190:THR:HB	1.99	0.44
1:2I:316:CYS:HB3	1:2I:378:LEU:HB2	2.00	0.44
1:2K:121:ARG:NH1	1:2K:124:LYS:HD2	2.32	0.44
1:2L:121:ARG:NH1	1:2L:124:LYS:HD2	2.32	0.44
2:2H:404:PHE:H	1:3A:261:PRO:CA	2.31	0.44
2:2O:195:VAL:HG23	2:2O:196:GLU:HG2	2.00	0.44
2:2Q:195:VAL:HG23	2:2Q:196:GLU:HG2	2.00	0.44
2:2Q:222:PRO:CG	1:3D:326:LYS:CB	2.94	0.44
2:2T:394:GLN:OE1	1:3G:349:THR:HG23	2.17	0.44
2:2V:181:VAL:HG11	1:3J:314:ALA:HB2	1.99	0.44
2:2V:404:PHE:HE2	1:3J:346:TRP:CH2	2.35	0.44
2:2Y:195:VAL:HG23	2:2Y:196:GLU:HG2	2.00	0.44
2:2Z:12:CYS:HG	2:2Z:140:SER:HG	1.66	0.44
2:2Z:177:VAL:CG2	1:3N:332:ILE:HG21	2.48	0.44
2:2Z:404:PHE:CA	1:3N:261:PRO:O	2.61	0.44
1:3E:147:SER:HB2	1:3E:190:THR:HB	1.99	0.44
1:3E:407:TRP:CE3	2:3R:257:VAL:HG22	2.52	0.44
1:3I:49:PHE:HB2	1:3I:53:PHE:HB2	2.00	0.44
1:3I:316:CYS:HB3	1:3I:378:LEU:HB2	2.00	0.44
1:3K:49:PHE:HB2	1:3K:53:PHE:HB2	1.99	0.44
1:3K:399:TYR:OH	1:3K:415:GLU:OE2	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3O:195:VAL:HG23	2:3O:196:GLU:HG2	2.00	0.44
2:3Q:195:VAL:HG23	2:3Q:196:GLU:HG2	2.00	0.44
2:3Y:195:VAL:HG23	2:3Y:196:GLU:HG2	2.00	0.44
1:4A:121:ARG:NH1	1:4A:124:LYS:HD2	2.32	0.44
1:4E:147:SER:HB2	1:4E:190:THR:HB	1.99	0.44
1:4I:241:SER:OG	1:4I:250:VAL:O	2.25	0.44
1:4I:316:CYS:HB3	1:4I:378:LEU:HB2	2.00	0.44
1:4L:121:ARG:NH1	1:4L:124:LYS:HD2	2.32	0.44
2:4O:195:VAL:HG23	2:4O:196:GLU:HG2	2.00	0.44
2:4Q:195:VAL:HG23	2:4Q:196:GLU:HG2	2.00	0.44
2:4S:195:VAL:HG23	2:4S:196:GLU:HG2	2.00	0.44
2:4V:69:ASP:OD2	2:4V:74:THR:OG1	2.22	0.44
2:4X:192:HIS:HD2	2:4X:424:ASN:HD22	1.65	0.44
1:1A:121:ARG:NH1	1:1A:124:LYS:HD2	2.32	0.44
1:1A:346:TRP:HB3	2:4H:397:ALA:O	2.13	0.44
1:1E:262:TYR:CE1	2:4R:402:LYS:C	2.90	0.44
1:1E:351:PHE:HB2	2:4R:178:SER:OG	2.18	0.44
1:1F:49:PHE:HB2	1:1F:53:PHE:HB2	1.99	0.44
1:1F:260:VAL:CB	2:4S:407:TRP:HZ2	2.26	0.44
1:1I:329:ASN:CB	2:4U:210:TYR:CD2	3.01	0.44
1:1K:2:ARG:NE	2:4W:72:PRO:HG2	2.33	0.44
1:1K:283:HIS:CG	1:1L:88:HIS:HA	2.52	0.44
1:1M:262:TYR:OH	2:4Y:403:ALA:N	2.51	0.44
1:1M:346:TRP:CB	2:4Y:397:ALA:O	2.65	0.44
1:1N:324:VAL:CG2	2:4Z:221:THR:OG1	2.43	0.44
1:1N:346:TRP:CZ3	2:4Z:404:PHE:CD2	3.06	0.44
2:1O:6:HIS:CD2	2:1O:8:GLN:HE21	2.36	0.44
2:1O:195:VAL:HG23	2:1O:196:GLU:HG2	2.00	0.44
2:1P:6:HIS:CD2	2:1P:8:GLN:HE21	2.36	0.44
2:1T:139:HIS:ND1	2:1T:140:SER:O	2.42	0.44
2:1V:404:PHE:HE1	1:2J:260:VAL:H	1.64	0.44
2:1X:192:HIS:HD2	2:1X:424:ASN:HD22	1.65	0.44
2:1Y:195:VAL:HG23	2:1Y:196:GLU:HG2	2.00	0.44
2:1Y:404:PHE:CE1	1:2M:261:PRO:N	2.84	0.44
1:2A:316:CYS:HB3	1:2A:378:LEU:HB2	1.99	0.44
1:2J:79:ARG:NH2	1:2J:92:LEU:O	2.41	0.44
1:2K:49:PHE:HB2	1:2K:53:PHE:HB2	1.99	0.44
1:2K:283:HIS:CG	1:2L:88:HIS:HA	2.52	0.44
1:2K:399:TYR:OH	1:2K:415:GLU:OE2	2.25	0.44
1:2N:70:LEU:HD12	1:2N:99:ALA:HB2	1.98	0.44
2:2P:6:HIS:CD2	2:2P:8:GLN:HE21	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2P:210:TYR:CE2	1:3C:329:ASN:HB2	2.53	0.44
2:2Q:394:GLN:CB	1:3D:348:PRO:HG2	2.47	0.44
2:2Q:404:PHE:CZ	1:3D:261:PRO:HB3	2.47	0.44
2:2S:404:PHE:CB	1:3F:261:PRO:HA	2.47	0.44
2:2T:73:GLY:HA3	1:3G:2:ARG:NH2	2.33	0.44
1:3A:316:CYS:HB3	1:3A:378:LEU:HB2	2.00	0.44
1:3F:49:PHE:HB2	1:3F:53:PHE:HB2	1.99	0.44
1:3K:121:ARG:NH1	1:3K:124:LYS:HD2	2.32	0.44
1:3K:283:HIS:CG	1:3L:88:HIS:HA	2.52	0.44
1:3L:121:ARG:NH1	1:3L:124:LYS:HD2	2.32	0.44
1:3N:70:LEU:HD12	1:3N:99:ALA:HB2	1.98	0.44
1:3N:316:CYS:HB3	1:3N:378:LEU:HB2	2.00	0.44
2:3H:139:HIS:ND1	2:3H:140:SER:O	2.42	0.44
2:3O:36:TYR:OH	2:3O:40:SER:O	2.33	0.44
2:3S:195:VAL:HG23	2:3S:196:GLU:HG2	2.00	0.44
2:3U:205:ASP:OD2	2:3U:304:ALA:N	2.36	0.44
2:3X:192:HIS:HD2	2:3X:424:ASN:HD22	1.65	0.44
1:4J:79:ARG:NH2	1:4J:92:LEU:O	2.41	0.44
1:4J:195:LEU:HD12	1:4J:266:HIS:HE1	1.82	0.44
1:4K:49:PHE:HB2	1:4K:53:PHE:HB2	1.99	0.44
1:4K:121:ARG:NH1	1:4K:124:LYS:HD2	2.32	0.44
2:4P:6:HIS:CD2	2:4P:8:GLN:HE21	2.36	0.44
2:4X:228:ASN:HD21	5:4X:501:GDP:HN1	1.64	0.44
2:4Y:195:VAL:HG23	2:4Y:196:GLU:HG2	2.00	0.44
1:1A:2:ARG:HG2	2:4H:72:PRO:HD2	1.98	0.44
1:1A:316:CYS:HB3	1:1A:378:LEU:HB2	2.00	0.44
1:1B:346:TRP:HA	2:4O:397:ALA:C	2.38	0.44
1:1F:349:THR:CG2	2:4S:394:GLN:OE1	2.66	0.44
1:1F:439:SER:CB	2:4S:400:ARG:HD2	2.48	0.44
1:1J:79:ARG:NH2	1:1J:92:LEU:O	2.41	0.44
1:1J:346:TRP:CB	2:4V:397:ALA:O	2.66	0.44
1:1K:121:ARG:NH1	1:1K:124:LYS:HD2	2.32	0.44
1:1N:70:LEU:HD12	1:1N:99:ALA:HB2	1.98	0.44
1:1N:248:LEU:CA	2:4Z:11:GLN:NE2	2.81	0.44
1:1N:253:THR:CG2	2:4Z:100:GLY:CA	2.96	0.44
1:1N:316:CYS:HB3	1:1N:378:LEU:HB2	2.00	0.44
2:1H:404:PHE:CD1	1:2A:261:PRO:HA	2.53	0.44
2:1Q:374:SER:OG	2:1Q:375:ALA:N	2.51	0.44
2:1R:374:SER:OG	2:1R:375:ALA:N	2.51	0.44
2:1S:374:SER:OG	2:1S:375:ALA:N	2.51	0.44
2:1T:195:VAL:HG23	2:1T:196:GLU:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1T:220:THR:O	1:2G:326:LYS:HD2	2.18	0.44
2:1T:374:SER:OG	2:1T:375:ALA:N	2.51	0.44
2:1V:221:THR:C	1:2J:324:VAL:HG13	2.38	0.44
2:1X:394:GLN:CD	1:2L:349:THR:HG23	2.37	0.44
2:1Y:192:HIS:HD2	2:1Y:424:ASN:HD22	1.65	0.44
1:2A:121:ARG:NH1	1:2A:124:LYS:HD2	2.32	0.44
1:2F:49:PHE:HB2	1:2F:53:PHE:HB2	2.00	0.44
1:2J:195:LEU:HD12	1:2J:266:HIS:HE1	1.82	0.44
1:2L:49:PHE:HB2	1:2L:53:PHE:HB2	1.99	0.44
1:2N:316:CYS:HB3	1:2N:378:LEU:HB2	2.00	0.44
2:2H:139:HIS:ND1	2:2H:140:SER:O	2.42	0.44
2:2O:6:HIS:CD2	2:2O:8:GLN:HE21	2.36	0.44
2:2P:374:SER:OG	2:2P:375:ALA:N	2.51	0.44
5:2Q:501:GDP:H8	1:3D:248:LEU:CD1	2.30	0.44
2:2R:36:TYR:OH	2:2R:40:SER:O	2.33	0.44
2:2R:192:HIS:HD2	2:2R:424:ASN:HD22	1.65	0.44
2:2R:374:SER:OG	2:2R:375:ALA:N	2.51	0.44
2:2R:394:GLN:HB3	1:3E:348:PRO:HG2	2.00	0.44
2:2S:195:VAL:HG23	2:2S:196:GLU:HG2	2.00	0.44
2:2S:374:SER:OG	2:2S:375:ALA:N	2.51	0.44
2:2S:404:PHE:CZ	1:3F:261:PRO:CB	2.98	0.44
2:2U:205:ASP:OD2	2:2U:304:ALA:N	2.36	0.44
2:2Y:192:HIS:HD2	2:2Y:424:ASN:HD22	1.65	0.44
2:2Z:73:GLY:HA3	1:3N:2:ARG:CZ	2.48	0.44
2:2Z:404:PHE:CD2	1:3N:261:PRO:CA	3.01	0.44
1:3A:121:ARG:NH1	1:3A:124:LYS:HD2	2.32	0.44
1:3G:147:SER:HB2	1:3G:190:THR:HB	1.99	0.44
1:3J:79:ARG:NH2	1:3J:92:LEU:O	2.41	0.44
2:3O:6:HIS:CD2	2:3O:8:GLN:HE21	2.36	0.44
2:3O:192:HIS:HD2	2:3O:424:ASN:HD22	1.65	0.44
2:3P:6:HIS:CD2	2:3P:8:GLN:HE21	2.36	0.44
2:3P:374:SER:OG	2:3P:375:ALA:N	2.51	0.44
2:3Q:374:SER:OG	2:3Q:375:ALA:N	2.51	0.44
2:3R:36:TYR:OH	2:3R:40:SER:O	2.33	0.44
2:3R:374:SER:OG	2:3R:375:ALA:N	2.51	0.44
2:3S:374:SER:OG	2:3S:375:ALA:N	2.51	0.44
1:4A:316:CYS:HB3	1:4A:378:LEU:HB2	2.00	0.44
1:4F:49:PHE:HB2	1:4F:53:PHE:HB2	1.99	0.44
1:4J:334:THR:O	1:4J:337:THR:OG1	2.32	0.44
1:4L:283:HIS:CG	1:4M:88:HIS:HA	2.52	0.44
1:4N:316:CYS:HB3	1:4N:378:LEU:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4H:139:HIS:ND1	2:4H:140:SER:O	2.42	0.44
2:4R:192:HIS:HD2	2:4R:424:ASN:HD22	1.65	0.44
2:4W:69:ASP:HA	2:4W:145:THR:HG21	2.00	0.44
1:1G:147:SER:HB2	1:1G:190:THR:HB	1.99	0.43
1:1G:346:TRP:HB2	2:4T:397:ALA:O	2.14	0.43
1:1J:228:ASN:OD1	3:1J:501:GTP:N1	2.46	0.43
1:1J:437:VAL:C	2:4V:401:ARG:HH12	2.12	0.43
1:1K:332:ILE:HB	2:4W:177:VAL:HG21	1.99	0.43
1:1L:49:PHE:HB2	1:1L:53:PHE:HB2	1.99	0.43
1:1L:326:LYS:HB3	2:4X:222:PRO:HD2	2.00	0.43
1:1M:329:ASN:CB	2:4Y:210:TYR:CD2	3.00	0.43
2:1H:69:ASP:HA	2:1H:145:THR:HG21	2.00	0.43
2:1O:192:HIS:HD2	2:1O:424:ASN:HD22	1.65	0.43
2:1P:374:SER:OG	2:1P:375:ALA:N	2.51	0.43
2:1R:36:TYR:OH	2:1R:40:SER:O	2.33	0.43
2:1R:100:GLY:CA	1:2E:253:THR:HG22	2.48	0.43
2:1R:192:HIS:HD2	2:1R:424:ASN:HD22	1.65	0.43
2:1R:404:PHE:CZ	1:2E:261:PRO:HA	2.53	0.43
2:1T:6:HIS:CD2	2:1T:8:GLN:HE21	2.36	0.43
2:1T:179:ASP:O	1:2G:352:LYS:CD	2.66	0.43
2:1U:36:TYR:OH	2:1U:40:SER:O	2.33	0.43
2:1W:36:TYR:OH	2:1W:40:SER:O	2.33	0.43
1:2I:241:SER:OG	1:2I:250:VAL:O	2.25	0.43
2:2H:69:ASP:HA	2:2H:145:THR:HG21	2.00	0.43
2:2O:192:HIS:HD2	2:2O:424:ASN:HD22	1.65	0.43
2:2Q:214:PHE:CG	1:3D:326:LYS:HE3	2.53	0.43
2:2Q:374:SER:OG	2:2Q:375:ALA:N	2.51	0.43
2:2R:406:HIS:HD2	1:3E:262:TYR:HA	1.81	0.43
2:2T:139:HIS:ND1	2:2T:140:SER:O	2.42	0.43
2:2T:195:VAL:HG23	2:2T:196:GLU:HG2	2.00	0.43
2:2T:374:SER:OG	2:2T:375:ALA:N	2.51	0.43
2:2T:406:HIS:CE1	1:3G:263:PRO:HB3	2.53	0.43
2:2U:222:PRO:O	1:3I:325:PRO:HD2	2.18	0.43
2:2W:69:ASP:HA	2:2W:145:THR:HG21	2.00	0.43
2:2W:179:ASP:O	1:3K:352:LYS:HA	2.18	0.43
2:2Y:69:ASP:HA	2:2Y:145:THR:HG21	2.00	0.43
2:2Y:404:PHE:CD1	1:3M:261:PRO:N	2.84	0.43
1:3G:172:TYR:N	1:3G:204:VAL:O	2.43	0.43
1:3J:195:LEU:HD12	1:3J:266:HIS:HE1	1.82	0.43
1:3L:49:PHE:HB2	1:3L:53:PHE:HB2	1.99	0.43
2:3H:69:ASP:HA	2:3H:145:THR:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3R:192:HIS:HD2	2:3R:424:ASN:HD22	1.65	0.43
2:3T:6:HIS:CD2	2:3T:8:GLN:HE21	2.36	0.43
2:3T:139:HIS:ND1	2:3T:140:SER:O	2.42	0.43
2:3T:374:SER:OG	2:3T:375:ALA:N	2.51	0.43
2:3U:36:TYR:OH	2:3U:40:SER:O	2.33	0.43
2:3W:69:ASP:HA	2:3W:145:THR:HG21	2.00	0.43
2:3Y:69:ASP:HA	2:3Y:145:THR:HG21	2.00	0.43
1:4L:49:PHE:HB2	1:4L:53:PHE:HB2	1.99	0.43
2:4H:69:ASP:HA	2:4H:145:THR:HG21	2.00	0.43
2:4O:6:HIS:CD2	2:4O:8:GLN:HE21	2.36	0.43
2:4Q:374:SER:OG	2:4Q:375:ALA:N	2.51	0.43
2:4R:36:TYR:OH	2:4R:40:SER:O	2.33	0.43
2:4S:205:ASP:OD2	2:4S:304:ALA:N	2.36	0.43
2:4S:374:SER:OG	2:4S:375:ALA:N	2.51	0.43
2:4T:139:HIS:ND1	2:4T:140:SER:O	2.42	0.43
2:4T:195:VAL:HG23	2:4T:196:GLU:HG2	2.00	0.43
2:4Y:69:ASP:HA	2:4Y:145:THR:HG21	2.00	0.43
2:4Y:192:HIS:HD2	2:4Y:424:ASN:HD22	1.65	0.43
1:1A:49:PHE:HB2	1:1A:53:PHE:HB2	1.99	0.43
1:1B:254:GLU:N	2:4O:100:GLY:HA2	2.30	0.43
1:1B:353:VAL:CG2	2:4O:179:ASP:OD1	2.65	0.43
1:1D:248:LEU:C	2:4Q:11:GLN:NE2	2.56	0.43
1:1D:329:ASN:ND2	2:4Q:207:GLU:HA	2.32	0.43
1:1E:261:PRO:HA	2:4R:404:PHE:CD1	2.53	0.43
1:1F:435:VAL:CA	2:4S:401:ARG:NH2	2.80	0.43
1:1I:326:LYS:CE	2:4U:214:PHE:HB2	2.46	0.43
1:1J:195:LEU:HD12	1:1J:266:HIS:HE1	1.82	0.43
1:1L:283:HIS:CG	1:1M:88:HIS:HA	2.52	0.43
2:1H:6:HIS:CD2	2:1H:8:GLN:HE21	2.36	0.43
2:1H:11:GLN:NE2	1:2A:249:ASN:ND2	2.66	0.43
2:1H:139:HIS:ND1	2:1H:140:SER:O	2.42	0.43
2:1H:374:SER:OG	2:1H:375:ALA:N	2.51	0.43
2:1O:178:SER:HB2	1:2B:349:THR:HB	2.00	0.43
2:1O:374:SER:OG	2:1O:375:ALA:N	2.51	0.43
2:1P:100:GLY:HA3	1:2C:253:THR:CG2	2.49	0.43
2:1P:221:THR:OG1	1:2C:324:VAL:HG11	2.17	0.43
2:1S:178:SER:HB3	1:2F:349:THR:HG22	2.00	0.43
2:1U:6:HIS:CD2	2:1U:8:GLN:HE21	2.36	0.43
2:1U:214:PHE:HB2	1:2I:326:LYS:CE	2.32	0.43
2:1V:192:HIS:HD2	2:1V:424:ASN:HD22	1.65	0.43
2:1W:69:ASP:HA	2:1W:145:THR:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1W:214:PHE:CD2	1:2K:326:LYS:CE	2.90	0.43
2:1X:205:ASP:OD2	2:1X:304:ALA:N	2.36	0.43
2:1Y:6:HIS:CD2	2:1Y:8:GLN:HE21	2.36	0.43
2:1Y:36:TYR:OH	2:1Y:40:SER:O	2.33	0.43
1:2A:49:PHE:HB2	1:2A:53:PHE:HB2	1.99	0.43
1:2B:49:PHE:HB2	1:2B:53:PHE:HB2	1.99	0.43
1:2G:147:SER:HB2	1:2G:190:THR:HB	1.99	0.43
1:2G:172:TYR:N	1:2G:204:VAL:O	2.43	0.43
1:2J:334:THR:O	1:2J:337:THR:OG1	2.32	0.43
1:2L:283:HIS:CG	1:2M:88:HIS:HA	2.52	0.43
2:2H:6:HIS:CD2	2:2H:8:GLN:HE21	2.36	0.43
2:2O:374:SER:OG	2:2O:375:ALA:N	2.51	0.43
2:2P:73:GLY:HA3	1:3C:2:ARG:NH2	2.33	0.43
2:2S:394:GLN:HB3	1:3F:348:PRO:HG2	2.00	0.43
2:2T:6:HIS:CD2	2:2T:8:GLN:HE21	2.36	0.43
2:2U:6:HIS:CD2	2:2U:8:GLN:HE21	2.36	0.43
2:2U:320:ARG:NH1	2:2U:360:PRO:HG3	2.34	0.43
2:2V:192:HIS:HD2	2:2V:424:ASN:HD22	1.65	0.43
2:2W:192:HIS:HD2	2:2W:424:ASN:HD22	1.65	0.43
2:2W:394:GLN:OE1	1:3K:349:THR:CG2	2.66	0.43
2:2X:100:GLY:CA	1:3L:253:THR:CB	2.73	0.43
2:2X:101:ASN:HB2	1:3L:254:GLU:HG2	1.99	0.43
2:2Y:406:HIS:CE1	1:3M:263:PRO:CB	3.01	0.43
2:2Z:11:GLN:HE22	1:3N:249:ASN:CB	2.32	0.43
1:3B:49:PHE:HB2	1:3B:53:PHE:HB2	1.99	0.43
1:3I:147:SER:HB2	1:3I:190:THR:HB	1.99	0.43
1:3I:241:SER:OG	1:3I:250:VAL:O	2.25	0.43
1:3J:334:THR:O	1:3J:337:THR:OG1	2.32	0.43
1:3L:283:HIS:CG	1:3M:88:HIS:HA	2.52	0.43
2:3H:6:HIS:CD2	2:3H:8:GLN:HE21	2.36	0.43
2:3O:374:SER:OG	2:3O:375:ALA:N	2.51	0.43
2:3T:195:VAL:HG23	2:3T:196:GLU:HG2	2.00	0.43
2:3U:6:HIS:CD2	2:3U:8:GLN:HE21	2.36	0.43
2:3W:192:HIS:HD2	2:3W:424:ASN:HD22	1.65	0.43
2:3Y:192:HIS:HD2	2:3Y:424:ASN:HD22	1.65	0.43
1:4A:49:PHE:HB2	1:4A:53:PHE:HB2	1.99	0.43
1:4B:49:PHE:HB2	1:4B:53:PHE:HB2	1.99	0.43
1:4G:147:SER:HB2	1:4G:190:THR:HB	1.99	0.43
1:4I:147:SER:HB2	1:4I:190:THR:HB	1.99	0.43
1:4K:283:HIS:CG	1:4L:88:HIS:HA	2.52	0.43
2:4H:6:HIS:CD2	2:4H:8:GLN:HE21	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4O:192:HIS:HD2	2:4O:424:ASN:HD22	1.65	0.43
2:4P:374:SER:OG	2:4P:375:ALA:N	2.51	0.43
2:4R:374:SER:OG	2:4R:375:ALA:N	2.51	0.43
2:4T:6:HIS:CD2	2:4T:8:GLN:HE21	2.36	0.43
2:4T:374:SER:OG	2:4T:375:ALA:N	2.51	0.43
2:4U:6:HIS:CD2	2:4U:8:GLN:HE21	2.36	0.43
2:4V:192:HIS:HD2	2:4V:424:ASN:HD22	1.65	0.43
2:4W:192:HIS:HD2	2:4W:424:ASN:HD22	1.65	0.43
2:4X:195:VAL:HG23	2:4X:196:GLU:HG2	2.00	0.43
1:1A:324:VAL:CG1	2:4H:222:PRO:C	2.86	0.43
1:1B:49:PHE:HB2	1:1B:53:PHE:HB2	1.99	0.43
1:1B:439:SER:CB	2:4O:400:ARG:HD2	2.48	0.43
1:1C:263:PRO:HD3	2:4P:406:HIS:HB3	1.99	0.43
1:1C:351:PHE:HB2	2:4P:178:SER:OG	2.18	0.43
1:1D:326:LYS:HA	2:4Q:210:TYR:CZ	2.50	0.43
1:1E:257:THR:HG21	2:4R:102:ASN:CA	2.48	0.43
1:1F:147:SER:HB2	1:1F:190:THR:HB	1.99	0.43
1:1I:147:SER:HB2	1:1I:190:THR:HB	1.99	0.43
1:1I:253:THR:HG22	2:4U:100:GLY:HA3	2.00	0.43
1:1J:262:TYR:CE2	2:4V:403:ALA:HA	2.49	0.43
1:1N:262:TYR:CE2	2:4Z:403:ALA:HB2	2.54	0.43
2:1P:100:GLY:CA	1:2C:253:THR:CG2	2.96	0.43
2:1U:195:VAL:HG23	2:1U:196:GLU:HG2	2.00	0.43
2:1W:192:HIS:HD2	2:1W:424:ASN:HD22	1.65	0.43
2:1X:69:ASP:HA	2:1X:145:THR:HG21	2.00	0.43
2:1Y:69:ASP:HA	2:1Y:145:THR:HG21	2.01	0.43
2:1Z:6:HIS:CD2	2:1Z:8:GLN:HE21	2.36	0.43
2:1Z:69:ASP:HA	2:1Z:145:THR:HG21	2.00	0.43
1:2F:147:SER:HB2	1:2F:190:THR:HB	1.99	0.43
1:2G:316:CYS:HB3	1:2G:378:LEU:HB2	1.99	0.43
1:2I:147:SER:HB2	1:2I:190:THR:HB	1.99	0.43
2:2P:101:ASN:HB2	1:3C:254:GLU:HB3	2.01	0.43
2:2Q:221:THR:HA	1:3D:324:VAL:HG11	2.00	0.43
2:2Q:224:TYR:CD2	1:3D:247:ALA:HB1	2.53	0.43
2:2Q:404:PHE:CE1	1:3D:260:VAL:C	2.91	0.43
2:2S:214:PHE:CG	1:3F:326:LYS:HE3	2.54	0.43
2:2T:406:HIS:CD2	1:3G:263:PRO:N	2.72	0.43
2:2U:394:GLN:OE1	1:3I:349:THR:CG2	2.66	0.43
2:2Y:6:HIS:CD2	2:2Y:8:GLN:HE21	2.36	0.43
2:2Z:11:GLN:CD	1:3N:249:ASN:HB2	2.38	0.43
2:2Z:69:ASP:HA	2:2Z:145:THR:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3A:49:PHE:HB2	1:3A:53:PHE:HB2	2.00	0.43
1:3D:316:CYS:HB3	1:3D:378:LEU:HB2	1.99	0.43
1:3F:147:SER:HB2	1:3F:190:THR:HB	1.99	0.43
1:3J:228:ASN:OD1	3:3J:501:GTP:N1	2.46	0.43
2:3V:192:HIS:HD2	2:3V:424:ASN:HD22	1.65	0.43
2:3V:320:ARG:NH1	2:3V:360:PRO:HG3	2.34	0.43
2:3X:69:ASP:HA	2:3X:145:THR:HG21	2.00	0.43
2:3Y:6:HIS:CD2	2:3Y:8:GLN:HE21	2.36	0.43
2:3Z:69:ASP:HA	2:3Z:145:THR:HG21	2.00	0.43
2:4O:374:SER:OG	2:4O:375:ALA:N	2.51	0.43
2:4U:205:ASP:OD2	2:4U:304:ALA:N	2.36	0.43
2:4U:320:ARG:NH1	2:4U:360:PRO:HG3	2.34	0.43
2:4Y:6:HIS:CD2	2:4Y:8:GLN:HE21	2.36	0.43
1:1B:253:THR:C	2:4O:100:GLY:CA	2.78	0.43
1:1B:257:THR:HB	2:4O:100:GLY:O	2.12	0.43
1:1F:195:LEU:HD12	1:1F:266:HIS:HE1	1.82	0.43
1:1G:260:VAL:CG2	2:4T:407:TRP:HZ2	2.32	0.43
1:1G:261:PRO:HB3	2:4T:404:PHE:CE2	2.51	0.43
1:1I:324:VAL:HG13	2:4U:223:THR:HA	1.99	0.43
1:1J:261:PRO:HB3	2:4V:404:PHE:CE2	2.52	0.43
1:1L:263:PRO:N	2:4X:406:HIS:NE2	2.66	0.43
2:1O:222:PRO:HD2	1:2B:326:LYS:HB3	2.00	0.43
2:1S:224:TYR:CD2	1:2F:247:ALA:O	2.71	0.43
2:1U:182:VAL:CG2	1:2I:257:THR:HG22	2.48	0.43
2:1U:320:ARG:NH1	2:1U:360:PRO:HG3	2.34	0.43
2:1U:374:SER:OG	2:1U:375:ALA:N	2.51	0.43
2:1V:320:ARG:NH1	2:1V:360:PRO:HG3	2.34	0.43
2:1W:195:VAL:HG23	2:1W:196:GLU:HG2	2.00	0.43
2:1W:221:THR:CB	1:2K:324:VAL:CG1	2.90	0.43
1:2A:253:THR:HG23	1:2A:256:GLN:HE21	1.84	0.43
1:2D:316:CYS:HB3	1:2D:378:LEU:HB2	2.00	0.43
1:2J:228:ASN:OD1	3:2J:501:GTP:N1	2.46	0.43
1:2K:253:THR:HG23	1:2K:256:GLN:HE21	1.84	0.43
2:2H:374:SER:OG	2:2H:375:ALA:N	2.51	0.43
2:2P:222:PRO:C	1:3C:324:VAL:HG13	2.38	0.43
2:2Q:221:THR:CA	1:3D:324:VAL:HG11	2.49	0.43
2:2S:404:PHE:CZ	1:3F:261:PRO:CD	3.01	0.43
2:2T:394:GLN:CB	1:3G:348:PRO:CG	2.96	0.43
2:2T:397:ALA:HB1	1:3G:346:TRP:HA	1.99	0.43
2:2U:195:VAL:HG23	2:2U:196:GLU:HG2	2.00	0.43
2:2U:374:SER:OG	2:2U:375:ALA:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2V:320:ARG:NH1	2:2V:360:PRO:HG3	2.34	0.43
2:2V:397:ALA:HB1	1:3J:346:TRP:HA	2.01	0.43
2:2V:398:MET:HA	1:3J:346:TRP:HB2	2.00	0.43
2:2W:36:TYR:OH	2:2W:40:SER:O	2.33	0.43
2:2X:36:TYR:OH	2:2X:40:SER:O	2.33	0.43
2:2X:69:ASP:HA	2:2X:145:THR:HG21	2.00	0.43
2:2X:195:VAL:HG23	2:2X:196:GLU:HG2	2.00	0.43
2:2Z:6:HIS:CD2	2:2Z:8:GLN:HE21	2.36	0.43
2:3H:374:SER:OG	2:3H:375:ALA:N	2.51	0.43
2:3U:195:VAL:HG23	2:3U:196:GLU:HG2	2.00	0.43
2:3U:320:ARG:NH1	2:3U:360:PRO:HG3	2.34	0.43
2:3U:374:SER:OG	2:3U:375:ALA:N	2.51	0.43
2:3W:36:TYR:OH	2:3W:40:SER:O	2.33	0.43
2:3X:195:VAL:HG23	2:3X:196:GLU:HG2	2.00	0.43
2:3Z:6:HIS:CD2	2:3Z:8:GLN:HE21	2.36	0.43
1:4D:49:PHE:HB2	1:4D:53:PHE:HB2	1.99	0.43
1:4D:316:CYS:HB3	1:4D:378:LEU:HB2	2.00	0.43
1:4F:147:SER:HB2	1:4F:190:THR:HB	1.99	0.43
1:4G:172:TYR:N	1:4G:204:VAL:O	2.43	0.43
1:4G:316:CYS:HB3	1:4G:378:LEU:HB2	2.00	0.43
1:4K:253:THR:HG23	1:4K:256:GLN:HE21	1.84	0.43
2:4H:374:SER:OG	2:4H:375:ALA:N	2.51	0.43
2:4Q:6:HIS:CD2	2:4Q:8:GLN:HE21	2.36	0.43
2:4U:192:HIS:HD2	2:4U:424:ASN:HD22	1.65	0.43
2:4U:374:SER:OG	2:4U:375:ALA:N	2.51	0.43
2:4X:69:ASP:HA	2:4X:145:THR:HG21	2.00	0.43
2:4Z:69:ASP:HA	2:4Z:145:THR:HG21	2.00	0.43
2:4Z:374:SER:OG	2:4Z:375:ALA:N	2.51	0.43
1:1A:253:THR:HG23	1:1A:256:GLN:HE21	1.84	0.43
1:1A:350:GLY:N	2:4H:178:SER:OG	2.51	0.43
1:1B:346:TRP:O	2:4O:398:MET:CA	2.66	0.43
1:1D:49:PHE:HB2	1:1D:53:PHE:HB2	1.99	0.43
1:1D:316:CYS:HB3	1:1D:378:LEU:HB2	2.00	0.43
1:1D:326:LYS:CE	2:4Q:214:PHE:CB	2.85	0.43
1:1E:346:TRP:HD1	2:4R:401:ARG:HG3	1.84	0.43
1:1G:316:CYS:HB3	1:1G:378:LEU:HB2	2.00	0.43
1:1K:253:THR:HG23	1:1K:256:GLN:HE21	1.84	0.43
1:1K:316:CYS:HB3	1:1K:378:LEU:HB2	1.99	0.43
1:1N:228:ASN:OD1	3:1N:501:GTP:N1	2.46	0.43
1:1N:257:THR:HB	2:4Z:100:GLY:O	2.11	0.43
2:1O:69:ASP:HA	2:1O:145:THR:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1Q:6:HIS:CD2	2:1Q:8:GLN:HE21	2.36	0.43
2:1Q:181:VAL:N	1:2D:258:ASN:ND2	2.55	0.43
2:1V:195:VAL:HG23	2:1V:196:GLU:HG2	2.00	0.43
2:1X:403:ALA:HA	1:2L:261:PRO:O	2.18	0.43
2:1Y:401:ARG:O	1:2M:262:TYR:CE1	2.71	0.43
5:1Y:501:GDP:H2'	1:2M:248:LEU:CD1	2.49	0.43
1:2D:49:PHE:HB2	1:2D:53:PHE:HB2	2.00	0.43
1:2N:228:ASN:OD1	3:2N:501:GTP:N1	2.46	0.43
2:2H:11:GLN:CD	1:3A:249:ASN:HB2	2.38	0.43
2:2Q:6:HIS:CD2	2:2Q:8:GLN:HE21	2.36	0.43
2:2Q:404:PHE:CD1	1:3D:260:VAL:C	2.91	0.43
2:2R:214:PHE:CG	1:3E:326:LYS:CE	3.02	0.43
2:2S:222:PRO:O	1:3F:324:VAL:HG13	2.19	0.43
2:2U:69:ASP:HA	2:2U:145:THR:HG21	2.00	0.43
2:2V:403:ALA:HB1	1:3J:262:TYR:CE2	2.53	0.43
2:2W:195:VAL:HG23	2:2W:196:GLU:HG2	2.00	0.43
2:2W:223:THR:CA	1:3K:325:PRO:HD2	2.37	0.43
2:2X:11:GLN:NE2	1:3L:249:ASN:CB	2.82	0.43
2:2Y:11:GLN:NE2	1:3M:249:ASN:CB	2.82	0.43
2:2Y:36:TYR:OH	2:2Y:40:SER:O	2.33	0.43
2:2Z:374:SER:OG	2:2Z:375:ALA:N	2.51	0.43
1:3A:238:ILE:HG12	1:3A:378:LEU:HD11	2.01	0.43
1:3D:49:PHE:HB2	1:3D:53:PHE:HB2	1.99	0.43
1:3G:316:CYS:HB3	1:3G:378:LEU:HB2	2.00	0.43
1:3K:238:ILE:HG12	1:3K:378:LEU:HD11	2.01	0.43
1:3K:253:THR:HG23	1:3K:256:GLN:HE21	1.84	0.43
2:3O:69:ASP:HA	2:3O:145:THR:HG21	2.00	0.43
2:3Q:6:HIS:CD2	2:3Q:8:GLN:HE21	2.36	0.43
2:3U:192:HIS:HD2	2:3U:424:ASN:HD22	1.65	0.43
2:3V:69:ASP:HA	2:3V:145:THR:HG21	2.00	0.43
2:3W:195:VAL:HG23	2:3W:196:GLU:HG2	2.00	0.43
2:3Y:36:TYR:OH	2:3Y:40:SER:O	2.33	0.43
2:3Z:374:SER:OG	2:3Z:375:ALA:N	2.51	0.43
1:4A:253:THR:HG23	1:4A:256:GLN:HE21	1.84	0.43
1:4E:241:SER:OG	1:4E:250:VAL:O	2.25	0.43
1:4J:228:ASN:OD1	3:4J:501:GTP:N1	2.46	0.43
2:4U:69:ASP:HA	2:4U:145:THR:HG21	2.00	0.43
2:4U:195:VAL:HG23	2:4U:196:GLU:HG2	2.00	0.43
2:4V:320:ARG:NH1	2:4V:360:PRO:HG3	2.34	0.43
2:4W:36:TYR:OH	2:4W:40:SER:O	2.33	0.43
1:1A:238:ILE:HG12	1:1A:378:LEU:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:314:ALA:CB	2:4O:181:VAL:CG1	2.92	0.43
1:1D:332:ILE:HG21	2:4Q:177:VAL:HG22	1.93	0.43
1:1D:346:TRP:CZ2	2:4Q:403:ALA:CB	3.02	0.43
1:1F:261:PRO:HA	2:4S:404:PHE:CG	2.53	0.43
1:1F:280:LYS:NZ	1:1G:90:GLU:OE2	2.39	0.43
1:1F:326:LYS:HG2	2:4S:210:TYR:CG	2.53	0.43
1:1G:348:PRO:CD	2:4T:398:MET:HG3	2.46	0.43
1:1I:241:SER:OG	1:1I:250:VAL:O	2.25	0.43
1:1J:261:PRO:HA	2:4V:404:PHE:CD1	2.54	0.43
1:1J:314:ALA:HB2	2:4V:404:PHE:HZ	1.83	0.43
1:1J:334:THR:O	1:1J:337:THR:OG1	2.32	0.43
1:1N:49:PHE:HB2	1:1N:53:PHE:HB2	1.99	0.43
1:1N:324:VAL:CG1	2:4Z:222:PRO:O	2.66	0.43
2:1P:69:ASP:HA	2:1P:145:THR:HG21	2.00	0.43
2:1S:221:THR:OG1	1:2F:324:VAL:HG22	2.10	0.43
2:1T:320:ARG:NH1	2:1T:360:PRO:HG3	2.34	0.43
2:1U:69:ASP:HA	2:1U:145:THR:HG21	2.00	0.43
2:1U:192:HIS:HD2	2:1U:424:ASN:HD22	1.65	0.43
2:1V:69:ASP:HA	2:1V:145:THR:HG21	2.00	0.43
2:1W:404:PHE:CE1	1:2K:261:PRO:HA	2.54	0.43
2:1X:6:HIS:CD2	2:1X:8:GLN:HE21	2.36	0.43
2:1X:195:VAL:HG23	2:1X:196:GLU:HG2	2.00	0.43
2:1Z:374:SER:OG	2:1Z:375:ALA:N	2.51	0.43
1:2K:238:ILE:HG12	1:2K:378:LEU:HD11	2.01	0.43
1:2M:195:LEU:HD12	1:2M:266:HIS:HE1	1.82	0.43
2:2O:69:ASP:HA	2:2O:145:THR:HG21	2.00	0.43
2:2O:181:VAL:HG23	1:3B:258:ASN:HB3	2.00	0.43
2:2O:404:PHE:CE1	1:3B:260:VAL:N	2.83	0.43
5:2P:501:GDP:H8	1:3C:248:LEU:HD13	1.82	0.43
2:2R:178:SER:HB3	1:3E:349:THR:HA	1.99	0.43
2:2S:404:PHE:CG	1:3F:261:PRO:CB	2.98	0.43
2:2S:404:PHE:CE1	1:3F:261:PRO:HD3	2.53	0.43
2:2U:192:HIS:HD2	2:2U:424:ASN:HD22	1.65	0.43
2:2V:69:ASP:HA	2:2V:145:THR:HG21	2.00	0.43
2:2V:195:VAL:HG23	2:2V:196:GLU:HG2	2.00	0.43
1:3A:253:THR:HG23	1:3A:256:GLN:HE21	1.84	0.43
1:3C:238:ILE:HG12	1:3C:378:LEU:HD11	2.01	0.43
1:3F:195:LEU:HD12	1:3F:266:HIS:HE1	1.82	0.43
1:3I:238:ILE:HG12	1:3I:378:LEU:HD11	2.01	0.43
1:3K:316:CYS:HB3	1:3K:378:LEU:HB2	2.00	0.43
1:3N:228:ASN:OD1	3:3N:501:GTP:N1	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3V:195:VAL:HG23	2:3V:196:GLU:HG2	2.00	0.43
2:3X:6:HIS:CD2	2:3X:8:GLN:HE21	2.36	0.43
1:4C:238:ILE:HG12	1:4C:378:LEU:HD11	2.01	0.43
1:4K:238:ILE:HG12	1:4K:378:LEU:HD11	2.01	0.43
1:4M:195:LEU:HD12	1:4M:266:HIS:HE1	1.82	0.43
2:4O:69:ASP:HA	2:4O:145:THR:HG21	2.00	0.43
2:4R:165:ILE:H	2:4R:165:ILE:HG13	1.70	0.43
2:4V:195:VAL:HG23	2:4V:196:GLU:HG2	2.00	0.43
2:4Z:6:HIS:CD2	2:4Z:8:GLN:HE21	2.36	0.43
1:1A:253:THR:CB	2:4H:100:GLY:CA	2.96	0.43
1:1A:254:GLU:HG2	2:4H:101:ASN:N	2.33	0.43
1:1B:260:VAL:C	2:4O:404:PHE:CD1	2.91	0.43
1:1C:325:PRO:CB	2:4P:224:TYR:CE1	3.01	0.43
1:1I:238:ILE:HG12	1:1I:378:LEU:HD11	2.01	0.43
1:1I:261:PRO:HB3	2:4U:404:PHE:CE2	2.53	0.43
1:1I:346:TRP:CH2	2:4U:403:ALA:CB	2.99	0.43
1:1J:49:PHE:HB2	1:1J:53:PHE:HB2	1.99	0.43
1:1K:238:ILE:HG12	1:1K:378:LEU:HD11	2.01	0.43
1:1K:258:ASN:HD21	2:4W:101:ASN:CG	2.22	0.43
1:1M:316:CYS:HB3	1:1M:378:LEU:HB2	2.00	0.43
1:1N:248:LEU:HD13	5:4Z:501:GDP:H8	1.77	0.43
2:1T:192:HIS:HD2	2:1T:424:ASN:HD22	1.65	0.43
2:1Y:221:THR:HG1	1:2M:324:VAL:CG2	2.22	0.43
1:2A:238:ILE:HG12	1:2A:378:LEU:HD11	2.01	0.43
1:2C:238:ILE:HG12	1:2C:378:LEU:HD11	2.01	0.43
1:2I:238:ILE:HG12	1:2I:378:LEU:HD11	2.01	0.43
1:2K:316:CYS:HB3	1:2K:378:LEU:HB2	2.00	0.43
1:2M:316:CYS:HB3	1:2M:378:LEU:HB2	2.00	0.43
2:2P:69:ASP:HA	2:2P:145:THR:HG21	2.01	0.43
2:2Q:100:GLY:O	1:3D:257:THR:CB	2.66	0.43
2:2R:407:TRP:CD1	1:3E:260:VAL:O	2.72	0.43
2:2S:181:VAL:CB	1:3F:258:ASN:O	2.67	0.43
2:2W:100:GLY:HA2	1:3K:253:THR:C	2.39	0.43
2:2W:180:THR:N	1:3K:351:PHE:O	2.52	0.43
2:2W:397:ALA:HB1	1:3K:346:TRP:HA	2.01	0.43
2:2X:6:HIS:CD2	2:2X:8:GLN:HE21	2.36	0.43
2:2X:77:SER:CB	1:3L:245:ASP:OD1	2.64	0.43
2:2X:100:GLY:HA2	1:3L:253:THR:HG22	1.85	0.43
2:2X:374:SER:OG	2:2X:375:ALA:N	2.51	0.43
1:3C:49:PHE:HB2	1:3C:53:PHE:HB2	1.99	0.43
1:3D:62:VAL:HA	1:3D:63:PRO:HD3	1.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3J:49:PHE:HB2	1:3J:53:PHE:HB2	1.99	0.43
1:3M:316:CYS:HB3	1:3M:378:LEU:HB2	2.00	0.43
1:3N:49:PHE:HB2	1:3N:53:PHE:HB2	1.99	0.43
2:3P:69:ASP:HA	2:3P:145:THR:HG21	2.00	0.43
2:3T:320:ARG:NH1	2:3T:360:PRO:HG3	2.34	0.43
2:3U:69:ASP:HA	2:3U:145:THR:HG21	2.01	0.43
2:3X:205:ASP:OD2	2:3X:304:ALA:N	2.36	0.43
1:4A:238:ILE:HG12	1:4A:378:LEU:HD11	2.01	0.43
1:4C:49:PHE:HB2	1:4C:53:PHE:HB2	1.99	0.43
1:4F:195:LEU:HD12	1:4F:266:HIS:HE1	1.82	0.43
1:4I:238:ILE:HG12	1:4I:378:LEU:HD11	2.01	0.43
1:4K:316:CYS:HB3	1:4K:378:LEU:HB2	2.00	0.43
1:4N:49:PHE:HB2	1:4N:53:PHE:HB2	1.99	0.43
1:4N:228:ASN:OD1	3:4N:501:GTP:N1	2.46	0.43
2:4P:69:ASP:HA	2:4P:145:THR:HG21	2.00	0.43
2:4S:6:HIS:CD2	2:4S:8:GLN:HE21	2.36	0.43
2:4T:320:ARG:NH1	2:4T:360:PRO:HG3	2.34	0.43
2:4W:195:VAL:HG23	2:4W:196:GLU:HG2	2.00	0.43
2:4X:374:SER:OG	2:4X:375:ALA:N	2.51	0.43
2:4Y:36:TYR:OH	2:4Y:40:SER:O	2.33	0.43
2:4Y:374:SER:OG	2:4Y:375:ALA:N	2.51	0.43
1:1C:49:PHE:HB2	1:1C:53:PHE:HB2	1.99	0.43
1:1C:238:ILE:HG12	1:1C:378:LEU:HD11	2.01	0.43
1:1E:261:PRO:CD	2:4R:404:PHE:CE1	2.99	0.43
1:1F:229:ARG:HD2	1:1F:363:VAL:HG11	2.01	0.43
1:1G:229:ARG:HD2	1:1G:363:VAL:HG11	2.01	0.43
1:1M:195:LEU:HD12	1:1M:266:HIS:HE1	1.82	0.43
1:1M:238:ILE:HG12	1:1M:378:LEU:HD11	2.01	0.43
1:1N:253:THR:HG23	1:1N:256:GLN:HE21	1.84	0.43
2:1U:404:PHE:CZ	1:2I:261:PRO:CD	3.02	0.43
2:1V:374:SER:OG	2:1V:375:ALA:N	2.51	0.43
2:1W:320:ARG:NH1	2:1W:360:PRO:HG3	2.34	0.43
2:1X:224:TYR:HE2	1:2L:248:LEU:CA	2.31	0.43
2:1X:374:SER:OG	2:1X:375:ALA:N	2.51	0.43
2:1Y:320:ARG:NH1	2:1Y:360:PRO:HG3	2.34	0.43
2:1Z:181:VAL:CG1	1:2N:258:ASN:O	2.65	0.43
2:1Z:320:ARG:NH1	2:1Z:360:PRO:HG3	2.34	0.43
1:2B:238:ILE:HG12	1:2B:378:LEU:HD11	2.01	0.43
1:2C:49:PHE:HB2	1:2C:53:PHE:HB2	1.99	0.43
1:2F:195:LEU:HD12	1:2F:266:HIS:HE1	1.82	0.43
1:2G:229:ARG:HD2	1:2G:363:VAL:HG11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2G:238:ILE:HG12	1:2G:378:LEU:HD11	2.01	0.43
1:2J:49:PHE:HB2	1:2J:53:PHE:HB2	1.99	0.43
1:2M:238:ILE:HG12	1:2M:378:LEU:HD11	2.01	0.43
1:2N:49:PHE:HB2	1:2N:53:PHE:HB2	1.99	0.43
2:2H:101:ASN:N	1:3A:254:GLU:HG2	2.33	0.43
2:2R:177:VAL:CG2	1:3E:332:ILE:CG2	2.87	0.43
2:2S:6:HIS:CD2	2:2S:8:GLN:HE21	2.36	0.43
2:2S:404:PHE:CD1	1:3F:260:VAL:C	2.91	0.43
2:2T:320:ARG:NH1	2:2T:360:PRO:HG3	2.34	0.43
5:2U:501:GDP:H8	1:3I:248:LEU:CD1	2.31	0.43
2:2X:101:ASN:C	1:3L:257:THR:HG21	2.38	0.43
2:2X:205:ASP:OD2	2:2X:304:ALA:N	2.36	0.43
2:2X:404:PHE:CE1	1:3L:261:PRO:CD	3.01	0.43
2:2Y:177:VAL:CG2	1:3M:332:ILE:HG21	2.48	0.43
2:2Y:320:ARG:NH1	2:2Y:360:PRO:HG3	2.34	0.43
2:2Y:374:SER:OG	2:2Y:375:ALA:N	2.51	0.43
1:3B:238:ILE:HG12	1:3B:378:LEU:HD11	2.01	0.43
1:3G:229:ARG:HD2	1:3G:363:VAL:HG11	2.01	0.43
1:3G:253:THR:HG23	1:3G:256:GLN:HE21	1.84	0.43
1:3L:316:CYS:HB3	1:3L:378:LEU:HB2	1.99	0.43
1:3M:195:LEU:HD12	1:3M:266:HIS:HE1	1.82	0.43
1:3M:238:ILE:HG12	1:3M:378:LEU:HD11	2.01	0.43
2:3T:192:HIS:HD2	2:3T:424:ASN:HD22	1.65	0.43
2:3X:374:SER:OG	2:3X:375:ALA:N	2.51	0.43
2:3Y:320:ARG:NH1	2:3Y:360:PRO:HG3	2.34	0.43
2:3Z:320:ARG:NH1	2:3Z:360:PRO:HG3	2.34	0.43
1:4B:238:ILE:HG12	1:4B:378:LEU:HD11	2.01	0.43
1:4G:229:ARG:HD2	1:4G:363:VAL:HG11	2.01	0.43
1:4G:238:ILE:HG12	1:4G:378:LEU:HD11	2.01	0.43
1:4G:280:LYS:NZ	1:4I:90:GLU:OE2	2.38	0.43
1:4J:49:PHE:HB2	1:4J:53:PHE:HB2	1.99	0.43
1:4J:238:ILE:HG12	1:4J:378:LEU:HD11	2.01	0.43
1:4M:238:ILE:HG12	1:4M:378:LEU:HD11	2.01	0.43
1:4M:316:CYS:HB3	1:4M:378:LEU:HB2	2.00	0.43
2:4V:69:ASP:HA	2:4V:145:THR:HG21	2.01	0.43
2:4X:6:HIS:CD2	2:4X:8:GLN:HE21	2.36	0.43
2:4Y:320:ARG:NH1	2:4Y:360:PRO:HG3	2.34	0.43
1:1B:238:ILE:HG12	1:1B:378:LEU:HD11	2.01	0.43
1:1E:241:SER:OG	1:1E:250:VAL:O	2.25	0.43
1:1E:251:ASP:OD2	2:4R:98:GLY:CA	2.67	0.43
1:1G:238:ILE:HG12	1:1G:378:LEU:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:253:THR:HG23	1:1G:256:GLN:HE21	1.84	0.43
1:1L:316:CYS:HB3	1:1L:378:LEU:HB2	1.99	0.43
1:1L:348:PRO:HD2	2:4X:398:MET:CG	2.49	0.43
2:1S:6:HIS:CD2	2:1S:8:GLN:HE21	2.36	0.43
2:1V:6:HIS:CD2	2:1V:8:GLN:HE21	2.36	0.43
1:2D:62:VAL:HA	1:2D:63:PRO:HD3	1.89	0.43
1:2F:228:ASN:OD1	3:2F:501:GTP:N1	2.46	0.43
1:2G:253:THR:HG23	1:2G:256:GLN:HE21	1.84	0.43
1:2G:280:LYS:NZ	1:2I:90:GLU:OE2	2.38	0.43
1:2J:238:ILE:HG12	1:2J:378:LEU:HD11	2.01	0.43
1:2L:253:THR:HG23	1:2L:256:GLN:HE21	1.84	0.43
1:2L:316:CYS:HB3	1:2L:378:LEU:HB2	2.00	0.43
1:2N:238:ILE:HG12	1:2N:378:LEU:HD11	2.01	0.43
2:2H:397:ALA:HB1	1:3A:346:TRP:HA	2.01	0.43
2:2H:404:PHE:CE1	1:3A:260:VAL:N	2.83	0.43
2:2O:394:GLN:CD	1:3B:349:THR:HG23	2.39	0.43
2:2O:397:ALA:HB1	1:3B:346:TRP:HA	2.01	0.43
2:2P:179:ASP:O	1:3C:352:LYS:HA	2.19	0.43
2:2Q:69:ASP:HA	2:2Q:145:THR:HG21	2.00	0.43
2:2Q:320:ARG:NH1	2:2Q:360:PRO:HG3	2.34	0.43
2:2R:165:ILE:H	2:2R:165:ILE:HG13	1.70	0.43
2:2R:404:PHE:CD1	1:3E:260:VAL:C	2.91	0.43
2:2S:222:PRO:CD	1:3F:326:LYS:CB	2.97	0.43
2:2T:192:HIS:HD2	2:2T:424:ASN:HD22	1.65	0.43
2:2U:222:PRO:C	1:3I:324:VAL:HG13	2.40	0.43
2:2U:397:ALA:HB1	1:3I:346:TRP:HA	2.00	0.43
2:2V:6:HIS:CD2	2:2V:8:GLN:HE21	2.36	0.43
2:2V:374:SER:OG	2:2V:375:ALA:N	2.51	0.43
2:2X:177:VAL:CG2	1:3L:332:ILE:HG21	2.47	0.43
2:2Z:222:PRO:CG	1:3N:326:LYS:CB	2.95	0.43
2:2Z:320:ARG:NH1	2:2Z:360:PRO:HG3	2.34	0.43
1:3F:229:ARG:HD2	1:3F:363:VAL:HG11	2.01	0.43
1:3G:238:ILE:HG12	1:3G:378:LEU:HD11	2.01	0.43
1:3J:238:ILE:HG12	1:3J:378:LEU:HD11	2.01	0.43
2:3S:6:HIS:CD2	2:3S:8:GLN:HE21	2.36	0.43
2:3V:374:SER:OG	2:3V:375:ALA:N	2.51	0.43
2:3Y:374:SER:OG	2:3Y:375:ALA:N	2.51	0.43
1:4E:238:ILE:HG12	1:4E:378:LEU:HD11	2.01	0.43
1:4F:229:ARG:HD2	1:4F:363:VAL:HG11	2.01	0.43
1:4F:253:THR:HG23	1:4F:256:GLN:HE21	1.84	0.43
1:4G:253:THR:HG23	1:4G:256:GLN:HE21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4L:316:CYS:HB3	1:4L:378:LEU:HB2	2.00	0.43
1:4M:49:PHE:HB2	1:4M:53:PHE:HB2	1.99	0.43
1:4N:238:ILE:HG12	1:4N:378:LEU:HD11	2.01	0.43
1:4N:253:THR:HG23	1:4N:256:GLN:HE21	1.84	0.43
2:4Q:320:ARG:NH1	2:4Q:360:PRO:HG3	2.34	0.43
2:4T:192:HIS:HD2	2:4T:424:ASN:HD22	1.65	0.43
2:4Z:320:ARG:NH1	2:4Z:360:PRO:HG3	2.34	0.43
1:1C:229:ARG:HD2	1:1C:363:VAL:HG11	2.01	0.43
1:1C:324:VAL:HG11	2:4P:221:THR:C	2.39	0.43
1:1D:238:ILE:HG12	1:1D:378:LEU:HD11	2.01	0.43
1:1E:238:ILE:HG12	1:1E:378:LEU:HD11	2.01	0.43
1:1F:238:ILE:HG12	1:1F:378:LEU:HD11	2.01	0.43
1:1F:261:PRO:CA	2:4S:404:PHE:CG	3.02	0.43
1:1G:345:ASP:O	2:4T:397:ALA:HB1	2.18	0.43
1:1I:261:PRO:CA	2:4U:404:PHE:CD1	3.01	0.43
1:1I:263:PRO:N	2:4U:406:HIS:NE2	2.64	0.43
1:1J:253:THR:HG23	1:1J:256:GLN:HE21	1.84	0.43
1:1J:325:PRO:CB	2:4V:224:TYR:CE1	3.02	0.43
1:1L:253:THR:HG23	1:1L:256:GLN:HE21	1.84	0.43
1:1M:248:LEU:HB2	2:4Y:224:TYR:HE2	1.83	0.43
1:1M:261:PRO:CB	2:4Y:404:PHE:CG	2.98	0.43
2:1O:214:PHE:CG	1:2B:326:LYS:CE	3.01	0.43
2:1Q:69:ASP:HA	2:1Q:145:THR:HG21	2.01	0.43
2:1Q:320:ARG:NH1	2:1Q:360:PRO:HG3	2.34	0.43
2:1R:6:HIS:CD2	2:1R:8:GLN:HE21	2.36	0.43
2:1R:320:ARG:NH1	2:1R:360:PRO:HG3	2.34	0.43
2:1T:181:VAL:CG2	1:2G:258:ASN:CB	2.94	0.43
2:1W:180:THR:HA	1:2K:352:LYS:HD3	2.01	0.43
2:1Y:374:SER:OG	2:1Y:375:ALA:N	2.51	0.43
2:1Z:182:VAL:CG2	1:2N:257:THR:HG22	2.49	0.43
1:2C:229:ARG:HD2	1:2C:363:VAL:HG11	2.01	0.43
1:2E:49:PHE:HB2	1:2E:53:PHE:HB2	1.99	0.43
1:2E:238:ILE:HG12	1:2E:378:LEU:HD11	2.01	0.43
1:2F:229:ARG:HD2	1:2F:363:VAL:HG11	2.01	0.43
1:2F:238:ILE:HG12	1:2F:378:LEU:HD11	2.01	0.43
1:2L:238:ILE:HG12	1:2L:378:LEU:HD11	2.01	0.43
1:2N:253:THR:HG23	1:2N:256:GLN:HE21	1.84	0.43
2:2O:406:HIS:CE1	1:3B:263:PRO:CA	3.02	0.43
2:2P:406:HIS:CE1	1:3C:263:PRO:HA	2.54	0.43
2:2R:320:ARG:NH1	2:2R:360:PRO:HG3	2.34	0.43
2:2U:181:VAL:CB	1:3I:258:ASN:O	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2W:11:GLN:NE2	1:3K:249:ASN:HB2	2.34	0.43
2:2W:320:ARG:NH1	2:2W:360:PRO:HG3	2.34	0.43
2:2X:181:VAL:HG23	1:3L:258:ASN:HB3	2.00	0.43
2:2Z:192:HIS:HD2	2:2Z:424:ASN:HD22	1.65	0.43
1:3C:229:ARG:HD2	1:3C:363:VAL:HG11	2.01	0.43
1:3E:238:ILE:HG12	1:3E:378:LEU:HD11	2.01	0.43
1:3F:238:ILE:HG12	1:3F:378:LEU:HD11	2.01	0.43
1:3J:253:THR:HG23	1:3J:256:GLN:HE21	1.84	0.43
1:3L:253:THR:HG23	1:3L:256:GLN:HE21	1.84	0.43
1:3M:49:PHE:HB2	1:3M:53:PHE:HB2	1.99	0.43
1:3N:253:THR:HG23	1:3N:256:GLN:HE21	1.84	0.43
2:3Q:69:ASP:HA	2:3Q:145:THR:HG21	2.00	0.43
2:3Q:320:ARG:NH1	2:3Q:360:PRO:HG3	2.34	0.43
2:3R:6:HIS:CD2	2:3R:8:GLN:HE21	2.36	0.43
2:3R:165:ILE:H	2:3R:165:ILE:HG13	1.70	0.43
2:3V:6:HIS:CD2	2:3V:8:GLN:HE21	2.36	0.43
1:4C:229:ARG:HD2	1:4C:363:VAL:HG11	2.01	0.43
1:4D:280:LYS:NZ	1:4E:90:GLU:OE2	2.38	0.43
1:4E:49:PHE:HB2	1:4E:53:PHE:HB2	1.99	0.43
1:4F:238:ILE:HG12	1:4F:378:LEU:HD11	2.01	0.43
1:4I:334:THR:O	1:4I:337:THR:OG1	2.32	0.43
1:4J:253:THR:HG23	1:4J:256:GLN:HE21	1.84	0.43
1:4L:253:THR:HG23	1:4L:256:GLN:HE21	1.84	0.43
2:4Q:69:ASP:HA	2:4Q:145:THR:HG21	2.00	0.43
2:4V:6:HIS:CD2	2:4V:8:GLN:HE21	2.36	0.43
2:4V:374:SER:OG	2:4V:375:ALA:N	2.51	0.43
2:4X:205:ASP:OD2	2:4X:304:ALA:N	2.36	0.43
1:1A:262:TYR:N	2:4H:406:HIS:NE2	2.66	0.42
1:1B:352:LYS:HA	2:4O:179:ASP:C	2.38	0.42
1:1F:253:THR:HG23	1:1F:256:GLN:HE21	1.84	0.42
1:1F:348:PRO:HG3	2:4S:394:GLN:CG	2.38	0.42
1:1J:238:ILE:HG12	1:1J:378:LEU:HD11	2.01	0.42
1:1K:325:PRO:HG2	2:4W:224:TYR:CG	2.53	0.42
1:1L:238:ILE:HG12	1:1L:378:LEU:HD11	2.01	0.42
1:1L:249:ASN:N	2:4X:11:GLN:OE1	2.49	0.42
1:1M:228:ASN:OD1	3:1M:501:GTP:N1	2.46	0.42
1:1N:238:ILE:HG12	1:1N:378:LEU:HD11	2.01	0.42
1:1N:333:ALA:CB	2:4Z:176:LYS:HE2	2.40	0.42
2:1O:320:ARG:NH1	2:1O:360:PRO:HG3	2.34	0.42
2:1P:320:ARG:NH1	2:1P:360:PRO:HG3	2.34	0.42
2:1Y:12:CYS:HG	2:1Y:140:SER:HG	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2D:238:ILE:HG12	1:2D:378:LEU:HD11	2.01	0.42
1:2D:253:THR:HG23	1:2D:256:GLN:HE21	1.84	0.42
1:2J:253:THR:HG23	1:2J:256:GLN:HE21	1.84	0.42
1:2M:49:PHE:HB2	1:2M:53:PHE:HB2	1.99	0.42
2:2H:178:SER:O	1:3A:351:PHE:C	2.56	0.42
2:2O:96:GLN:OE1	1:3B:1:MET:O	2.37	0.42
2:2P:181:VAL:HG11	1:3C:314:ALA:HB2	2.01	0.42
2:2P:320:ARG:NH1	2:2P:360:PRO:HG3	2.34	0.42
2:2Q:404:PHE:CD1	1:3D:261:PRO:N	2.87	0.42
2:2R:6:HIS:CD2	2:2R:8:GLN:HE21	2.36	0.42
2:2S:73:GLY:HA3	1:3F:2:ARG:CZ	2.49	0.42
2:2T:221:THR:HA	1:3G:324:VAL:HG11	2.01	0.42
2:2W:100:GLY:CA	1:3K:253:THR:CB	2.77	0.42
2:2W:406:HIS:CE1	1:3K:263:PRO:HA	2.53	0.42
1:3D:238:ILE:HG12	1:3D:378:LEU:HD11	2.01	0.42
1:3D:253:THR:HG23	1:3D:256:GLN:HE21	1.84	0.42
1:3L:238:ILE:HG12	1:3L:378:LEU:HD11	2.01	0.42
1:3M:228:ASN:OD1	3:3M:501:GTP:N1	2.46	0.42
1:3N:238:ILE:HG12	1:3N:378:LEU:HD11	2.01	0.42
2:3O:320:ARG:NH1	2:3O:360:PRO:HG3	2.34	0.42
2:3P:320:ARG:NH1	2:3P:360:PRO:HG3	2.34	0.42
2:3R:320:ARG:NH1	2:3R:360:PRO:HG3	2.34	0.42
2:3W:320:ARG:NH1	2:3W:360:PRO:HG3	2.34	0.42
2:3Y:12:CYS:HG	2:3Y:140:SER:HG	1.66	0.42
1:4D:253:THR:HG23	1:4D:256:GLN:HE21	1.84	0.42
1:4F:228:ASN:OD1	3:4F:501:GTP:N1	2.46	0.42
1:4L:238:ILE:HG12	1:4L:378:LEU:HD11	2.01	0.42
1:4M:253:THR:HG23	1:4M:256:GLN:HE21	1.84	0.42
2:4P:320:ARG:NH1	2:4P:360:PRO:HG3	2.34	0.42
2:4R:6:HIS:CD2	2:4R:8:GLN:HE21	2.36	0.42
2:4R:320:ARG:NH1	2:4R:360:PRO:HG3	2.34	0.42
2:4W:320:ARG:NH1	2:4W:360:PRO:HG3	2.34	0.42
2:4Z:192:HIS:HD2	2:4Z:424:ASN:HD22	1.65	0.42
1:1C:228:ASN:OD1	3:1C:501:GTP:N1	2.46	0.42
1:1D:253:THR:HG23	1:1D:256:GLN:HE21	1.84	0.42
1:1F:258:ASN:ND2	2:4S:180:THR:CG2	2.77	0.42
1:1G:349:THR:HG23	2:4T:184:PRO:CG	2.49	0.42
1:1J:316:CYS:HB3	1:1J:378:LEU:HB2	2.00	0.42
1:1M:253:THR:HG23	1:1M:256:GLN:HE21	1.84	0.42
1:1M:324:VAL:HG12	2:4Y:222:PRO:O	2.19	0.42
2:1H:192:HIS:HD2	2:1H:424:ASN:HD22	1.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1R:69:ASP:HA	2:1R:145:THR:HG21	2.00	0.42
2:1S:192:HIS:HD2	2:1S:424:ASN:HD22	1.65	0.42
2:1V:176:LYS:NZ	1:2J:333:ALA:HB1	2.34	0.42
2:1V:224:TYR:OH	1:2J:248:LEU:HD13	2.19	0.42
2:1X:404:PHE:CE1	1:2L:260:VAL:CA	3.00	0.42
2:1Y:181:VAL:CB	1:2M:258:ASN:C	2.87	0.42
2:1Z:192:HIS:HD2	2:1Z:424:ASN:HD22	1.65	0.42
2:1Z:221:THR:CB	1:2N:324:VAL:HG21	2.49	0.42
1:2F:253:THR:HG23	1:2F:256:GLN:HE21	1.84	0.42
1:2K:229:ARG:HD2	1:2K:363:VAL:HG11	2.01	0.42
1:2M:228:ASN:OD1	3:2M:501:GTP:N1	2.46	0.42
1:2M:253:THR:HG23	1:2M:256:GLN:HE21	1.84	0.42
2:2H:176:LYS:O	1:3A:336:LYS:NZ	2.31	0.42
2:2H:394:GLN:OE1	1:3A:349:THR:HG21	2.19	0.42
2:2O:320:ARG:NH1	2:2O:360:PRO:HG3	2.34	0.42
2:2P:404:PHE:CE2	1:3C:261:PRO:CB	2.78	0.42
2:2R:404:PHE:CE1	1:3E:260:VAL:C	2.92	0.42
2:2V:394:GLN:OE1	1:3J:349:THR:CG2	2.67	0.42
2:2V:404:PHE:HE1	1:3J:260:VAL:N	2.17	0.42
2:2W:209:LEU:HB3	2:2W:227:LEU:HG	2.01	0.42
1:3E:49:PHE:HB2	1:3E:53:PHE:HB2	1.99	0.42
1:3F:253:THR:HG23	1:3F:256:GLN:HE21	1.84	0.42
1:3G:132:LEU:HD23	1:3G:164:LYS:HZ3	1.83	0.42
1:3J:316:CYS:HB3	1:3J:378:LEU:HB2	1.99	0.42
1:3K:229:ARG:HD2	1:3K:363:VAL:HG11	2.01	0.42
2:3R:69:ASP:HA	2:3R:145:THR:HG21	2.00	0.42
2:3S:69:ASP:HA	2:3S:145:THR:HG21	2.00	0.42
2:3T:69:ASP:HA	2:3T:145:THR:HG21	2.00	0.42
2:3Z:192:HIS:HD2	2:3Z:424:ASN:HD22	1.65	0.42
1:4D:62:VAL:HA	1:4D:63:PRO:HD3	1.90	0.42
1:4D:283:HIS:HB3	1:4E:88:HIS:CB	2.50	0.42
1:4K:229:ARG:HD2	1:4K:363:VAL:HG11	2.01	0.42
2:4W:209:LEU:HB3	2:4W:227:LEU:HG	2.01	0.42
1:1B:314:ALA:HB1	2:4O:181:VAL:HG11	1.94	0.42
1:1B:329:ASN:ND2	2:4O:210:TYR:CD2	2.64	0.42
1:1C:325:PRO:HG2	2:4P:224:TYR:CG	2.54	0.42
1:1D:254:GLU:HG2	2:4Q:100:GLY:C	2.38	0.42
1:1D:283:HIS:HB3	1:1E:88:HIS:CB	2.50	0.42
1:1E:283:HIS:HB3	1:1F:88:HIS:CB	2.50	0.42
1:1F:256:GLN:HB2	2:4S:407:TRP:CH2	2.54	0.42
1:1F:256:GLN:O	2:4S:407:TRP:CE2	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1F:283:HIS:HB3	1:1G:88:HIS:CB	2.50	0.42
1:1I:172:TYR:N	1:1I:204:VAL:O	2.43	0.42
1:1J:261:PRO:CA	2:4V:404:PHE:CD1	3.01	0.42
1:1J:283:HIS:HB3	1:1K:88:HIS:CB	2.50	0.42
1:1K:229:ARG:HD2	1:1K:363:VAL:HG11	2.01	0.42
1:1L:228:ASN:OD1	3:1L:501:GTP:N1	2.46	0.42
1:1M:49:PHE:HB2	1:1M:53:PHE:HB2	1.99	0.42
1:1M:352:LYS:HD3	2:4Y:101:ASN:ND2	2.35	0.42
2:1H:209:LEU:HB3	2:1H:227:LEU:HG	2.01	0.42
2:1P:401:ARG:NH2	1:2C:434:GLU:O	2.46	0.42
2:1Q:157:ILE:O	2:1Q:161:TYR:N	2.46	0.42
2:1S:69:ASP:HA	2:1S:145:THR:HG21	2.01	0.42
2:1W:209:LEU:HB3	2:1W:227:LEU:HG	2.01	0.42
2:1Z:394:GLN:OE1	1:2N:349:THR:CG2	2.67	0.42
1:2A:88:HIS:CB	1:2N:283:HIS:HB3	2.49	0.42
1:2C:228:ASN:OD1	3:2C:501:GTP:N1	2.46	0.42
1:2D:229:ARG:HD2	1:2D:363:VAL:HG11	2.01	0.42
1:2D:283:HIS:HB3	1:2E:88:HIS:CB	2.50	0.42
1:2E:283:HIS:HB3	1:2F:88:HIS:CB	2.50	0.42
1:2I:334:THR:O	1:2I:337:THR:OG1	2.32	0.42
1:2J:316:CYS:HB3	1:2J:378:LEU:HB2	2.00	0.42
2:2H:406:HIS:CE1	1:3A:263:PRO:CA	3.01	0.42
2:2O:36:TYR:OH	2:2O:40:SER:O	2.33	0.42
2:2R:69:ASP:HA	2:2R:145:THR:HG21	2.00	0.42
2:2R:214:PHE:CG	1:3E:326:LYS:HE3	2.54	0.42
2:2S:69:ASP:HA	2:2S:145:THR:HG21	2.01	0.42
2:2S:192:HIS:HD2	2:2S:424:ASN:HD22	1.65	0.42
2:2S:404:PHE:HE1	1:3F:260:VAL:N	2.17	0.42
2:2T:69:ASP:HA	2:2T:145:THR:HG21	2.00	0.42
2:2X:72:PRO:CG	1:3L:2:ARG:CG	2.94	0.42
2:2Y:11:GLN:OE1	1:3M:249:ASN:HB2	2.19	0.42
1:3C:228:ASN:OD1	3:3C:501:GTP:N1	2.46	0.42
1:3D:283:HIS:HB3	1:3E:88:HIS:CB	2.50	0.42
1:3E:283:HIS:HB3	1:3F:88:HIS:CB	2.50	0.42
1:3I:334:THR:O	1:3I:337:THR:OG1	2.32	0.42
1:3J:283:HIS:HB3	1:3K:88:HIS:CB	2.50	0.42
1:3L:228:ASN:OD1	3:3L:501:GTP:N1	2.46	0.42
1:3M:253:THR:HG23	1:3M:256:GLN:HE21	1.84	0.42
2:3H:209:LEU:HB3	2:3H:227:LEU:HG	2.01	0.42
2:3S:192:HIS:HD2	2:3S:424:ASN:HD22	1.65	0.42
1:4D:238:ILE:HG12	1:4D:378:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4E:283:HIS:HB3	1:4F:88:HIS:CB	2.50	0.42
1:4J:316:CYS:HB3	1:4J:378:LEU:HB2	2.00	0.42
2:4H:192:HIS:HD2	2:4H:424:ASN:HD22	1.65	0.42
2:4H:209:LEU:HB3	2:4H:227:LEU:HG	2.01	0.42
2:4O:320:ARG:NH1	2:4O:360:PRO:HG3	2.34	0.42
2:4R:69:ASP:HA	2:4R:145:THR:HG21	2.00	0.42
2:4X:320:ARG:NH1	2:4X:360:PRO:HG3	2.34	0.42
1:1A:88:HIS:CB	1:1N:283:HIS:HB3	2.50	0.42
1:1B:253:THR:HG23	1:1B:256:GLN:HE21	1.84	0.42
1:1C:258:ASN:O	2:4P:181:VAL:CB	2.65	0.42
1:1F:262:TYR:CZ	2:4S:402:LYS:C	2.93	0.42
1:1G:228:ASN:OD1	3:1G:501:GTP:N1	2.46	0.42
1:1K:258:ASN:HD21	2:4W:180:THR:HG23	1.84	0.42
1:1L:258:ASN:OD1	2:4X:101:ASN:CB	2.68	0.42
2:1R:165:ILE:H	2:1R:165:ILE:HG13	1.70	0.42
2:1T:69:ASP:HA	2:1T:145:THR:HG21	2.00	0.42
2:1W:6:HIS:CD2	2:1W:8:GLN:HE21	2.36	0.42
2:1X:214:PHE:CG	1:2L:326:LYS:HE3	2.23	0.42
2:1Y:394:GLN:NE2	1:2M:349:THR:CG2	2.82	0.42
2:1Y:403:ALA:HB2	1:2M:262:TYR:CE2	2.52	0.42
2:1Z:403:ALA:HA	1:2N:261:PRO:O	2.19	0.42
1:2F:283:HIS:HB3	1:2G:88:HIS:CB	2.50	0.42
1:2I:172:TYR:N	1:2I:204:VAL:O	2.43	0.42
1:2J:283:HIS:HB3	1:2K:88:HIS:CB	2.50	0.42
2:2H:192:HIS:HD2	2:2H:424:ASN:HD22	1.65	0.42
2:2H:209:LEU:HB3	2:2H:227:LEU:HG	2.01	0.42
2:2H:404:PHE:CZ	1:3A:261:PRO:CD	3.02	0.42
2:2W:6:HIS:CD2	2:2W:8:GLN:HE21	2.36	0.42
2:2W:374:SER:OG	2:2W:375:ALA:N	2.51	0.42
2:2X:209:LEU:HB3	2:2X:227:LEU:HG	2.01	0.42
1:3A:88:HIS:CB	1:3N:283:HIS:HB3	2.50	0.42
1:3D:229:ARG:HD2	1:3D:363:VAL:HG11	2.01	0.42
1:3G:228:ASN:OD1	3:3G:501:GTP:N1	2.46	0.42
2:3H:192:HIS:HD2	2:3H:424:ASN:HD22	1.65	0.42
2:3Q:157:ILE:O	2:3Q:161:TYR:N	2.46	0.42
2:3W:6:HIS:CD2	2:3W:8:GLN:HE21	2.36	0.42
2:3W:209:LEU:HB3	2:3W:227:LEU:HG	2.01	0.42
2:3W:374:SER:OG	2:3W:375:ALA:N	2.51	0.42
2:3X:209:LEU:HB3	2:3X:227:LEU:HG	2.01	0.42
1:4A:88:HIS:CB	1:4N:283:HIS:HB3	2.50	0.42
1:4C:283:HIS:HB3	1:4D:88:HIS:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4D:229:ARG:HD2	1:4D:363:VAL:HG11	2.01	0.42
1:4J:283:HIS:HB3	1:4K:88:HIS:CB	2.50	0.42
1:4M:228:ASN:OD1	3:4M:501:GTP:N1	2.46	0.42
2:4O:36:TYR:OH	2:4O:40:SER:O	2.33	0.42
2:4S:69:ASP:HA	2:4S:145:THR:HG21	2.01	0.42
2:4S:192:HIS:HD2	2:4S:424:ASN:HD22	1.65	0.42
2:4T:69:ASP:HA	2:4T:145:THR:HG21	2.01	0.42
2:4W:6:HIS:CD2	2:4W:8:GLN:HE21	2.36	0.42
2:4W:374:SER:OG	2:4W:375:ALA:N	2.51	0.42
2:4X:209:LEU:HB3	2:4X:227:LEU:HG	2.01	0.42
1:1D:229:ARG:HD2	1:1D:363:VAL:HG11	2.01	0.42
1:1E:49:PHE:HB2	1:1E:53:PHE:HB2	1.99	0.42
1:1I:254:GLU:HG2	2:4U:100:GLY:CA	2.49	0.42
1:1I:258:ASN:HD21	2:4U:101:ASN:CG	2.23	0.42
1:1I:283:HIS:HB3	1:1J:88:HIS:CB	2.49	0.42
1:1I:334:THR:O	1:1I:337:THR:OG1	2.32	0.42
1:1J:172:TYR:N	1:1J:204:VAL:O	2.43	0.42
1:1J:348:PRO:CG	2:4V:394:GLN:HG2	2.49	0.42
2:1S:223:THR:HA	1:2F:325:PRO:HD2	2.00	0.42
2:1W:374:SER:OG	2:1W:375:ALA:N	2.51	0.42
2:1X:209:LEU:HB3	2:1X:227:LEU:HG	2.01	0.42
2:1X:320:ARG:NH1	2:1X:360:PRO:HG3	2.34	0.42
2:1Z:209:LEU:HB3	2:1Z:227:LEU:HG	2.01	0.42
1:2B:253:THR:HG23	1:2B:256:GLN:HE21	1.84	0.42
1:2C:283:HIS:HB3	1:2D:88:HIS:CB	2.50	0.42
1:2G:228:ASN:OD1	3:2G:501:GTP:N1	2.46	0.42
1:2I:229:ARG:HD2	1:2I:363:VAL:HG11	2.01	0.42
1:2I:283:HIS:HB3	1:2J:88:HIS:CB	2.50	0.42
1:2J:172:TYR:N	1:2J:204:VAL:O	2.43	0.42
1:2L:228:ASN:OD1	3:2L:501:GTP:N1	2.46	0.42
2:2O:214:PHE:CD1	1:3B:326:LYS:CE	3.01	0.42
2:2P:207:GLU:CD	1:3C:329:ASN:HD21	2.07	0.42
2:2Q:157:ILE:O	2:2Q:161:TYR:N	2.46	0.42
2:2S:12:CYS:HG	2:2S:140:SER:HG	1.61	0.42
2:2U:73:GLY:HA3	1:3I:2:ARG:NH2	2.34	0.42
2:2U:403:ALA:HB1	1:3I:262:TYR:CE2	2.55	0.42
2:2U:404:PHE:HE2	1:3I:346:TRP:HH2	1.67	0.42
2:2X:320:ARG:NH1	2:2X:360:PRO:HG3	2.34	0.42
1:3C:283:HIS:HB3	1:3D:88:HIS:CB	2.50	0.42
1:3F:283:HIS:HB3	1:3G:88:HIS:CB	2.50	0.42
1:3I:172:TYR:N	1:3I:204:VAL:O	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3I:283:HIS:HB3	1:3J:88:HIS:CB	2.50	0.42
1:3J:172:TYR:N	1:3J:204:VAL:O	2.43	0.42
2:3S:12:CYS:HG	2:3S:140:SER:HG	1.61	0.42
1:4F:283:HIS:HB3	1:4G:88:HIS:CB	2.50	0.42
1:4I:172:TYR:N	1:4I:204:VAL:O	2.43	0.42
1:4J:172:TYR:N	1:4J:204:VAL:O	2.43	0.42
1:1B:262:TYR:HE2	2:4O:403:ALA:HB2	1.82	0.42
1:1B:349:THR:CB	2:4O:184:PRO:HD3	2.48	0.42
1:1E:260:VAL:CG1	2:4R:407:TRP:CE2	3.03	0.42
1:1G:132:LEU:HD23	1:1G:164:LYS:HZ3	1.83	0.42
1:1I:326:LYS:HD2	2:4U:222:PRO:HD2	2.02	0.42
1:1I:332:ILE:CB	2:4U:177:VAL:HG23	2.49	0.42
2:1Q:178:SER:HB3	1:2D:349:THR:HG22	2.00	0.42
2:1S:12:CYS:HG	2:1S:140:SER:HG	1.61	0.42
2:1S:320:ARG:NH1	2:1S:360:PRO:HG3	2.34	0.42
2:1U:139:HIS:ND1	2:1U:140:SER:O	2.42	0.42
2:1W:406:HIS:NE2	1:2K:263:PRO:HB3	2.32	0.42
1:2C:253:THR:HG23	1:2C:256:GLN:HE21	1.84	0.42
2:2O:404:PHE:N	1:3B:261:PRO:HA	2.34	0.42
2:2P:397:ALA:HB1	1:3C:346:TRP:HA	2.00	0.42
2:2R:221:THR:CA	1:3E:324:VAL:HG11	2.49	0.42
5:2S:501:GDP:C8	1:3F:248:LEU:CD1	2.93	0.42
2:2X:11:GLN:CD	1:3L:249:ASN:HB2	2.40	0.42
2:2Z:397:ALA:HB1	1:3N:346:TRP:HA	2.02	0.42
1:3B:253:THR:HG23	1:3B:256:GLN:HE21	1.84	0.42
1:3C:253:THR:HG23	1:3C:256:GLN:HE21	1.84	0.42
1:3I:229:ARG:HD2	1:3I:363:VAL:HG11	2.01	0.42
2:3S:320:ARG:NH1	2:3S:360:PRO:HG3	2.34	0.42
2:3X:320:ARG:NH1	2:3X:360:PRO:HG3	2.34	0.42
1:4B:253:THR:HG23	1:4B:256:GLN:HE21	1.84	0.42
1:4C:228:ASN:OD1	3:4C:501:GTP:N1	2.46	0.42
1:4C:253:THR:HG23	1:4C:256:GLN:HE21	1.84	0.42
1:4G:132:LEU:HD23	1:4G:164:LYS:HZ3	1.83	0.42
1:4I:229:ARG:HD2	1:4I:363:VAL:HG11	2.01	0.42
1:4I:283:HIS:HB3	1:4J:88:HIS:CB	2.50	0.42
1:4L:228:ASN:OD1	3:4L:501:GTP:N1	2.46	0.42
1:1A:2:ARG:CD	2:4H:72:PRO:HG2	2.49	0.42
1:1A:2:ARG:CZ	2:4H:73:GLY:HA3	2.50	0.42
1:1A:329:ASN:HB2	2:4H:210:TYR:HE2	1.79	0.42
1:1B:261:PRO:HB3	2:4O:404:PHE:CZ	2.51	0.42
1:1C:283:HIS:HB3	1:1D:88:HIS:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1D:325:PRO:C	2:4Q:210:TYR:CZ	2.93	0.42
1:1D:332:ILE:CB	2:4Q:177:VAL:HG21	2.36	0.42
1:1E:229:ARG:HD2	1:1E:363:VAL:HG11	2.01	0.42
1:1E:325:PRO:HB3	2:4R:224:TYR:CZ	2.54	0.42
1:1I:1:MET:O	2:4U:96:GLN:OE1	2.38	0.42
1:1I:228:ASN:OD1	3:1I:501:GTP:N1	2.46	0.42
1:1I:229:ARG:HD2	1:1I:363:VAL:HG11	2.01	0.42
1:1I:261:PRO:CB	2:4U:404:PHE:N	2.80	0.42
1:1J:229:ARG:HD2	1:1J:363:VAL:HG11	2.01	0.42
1:1J:258:ASN:HD21	2:4V:180:THR:HG23	1.85	0.42
1:1K:353:VAL:CG2	2:4W:179:ASP:OD1	2.67	0.42
1:1N:62:VAL:HA	1:1N:63:PRO:HD3	1.90	0.42
2:1H:320:ARG:NH1	2:1H:360:PRO:HG3	2.34	0.42
2:1U:180:THR:HA	1:2I:258:ASN:HD21	1.82	0.42
2:1V:205:ASP:OD2	2:1V:304:ALA:N	2.36	0.42
1:2G:132:LEU:HD23	1:2G:164:LYS:HZ3	1.83	0.42
2:2H:394:GLN:OE1	1:3A:349:THR:HG23	2.18	0.42
2:2Q:406:HIS:CG	1:3D:263:PRO:CD	2.94	0.42
2:2S:320:ARG:NH1	2:2S:360:PRO:HG3	2.34	0.42
2:2V:100:GLY:HA3	1:3J:253:THR:HG21	1.96	0.42
2:2Z:209:LEU:HB3	2:2Z:227:LEU:HG	2.01	0.42
1:3N:241:SER:OG	1:3N:250:VAL:O	2.25	0.42
2:3H:320:ARG:NH1	2:3H:360:PRO:HG3	2.34	0.42
2:3Z:209:LEU:HB3	2:3Z:227:LEU:HG	2.01	0.42
1:4G:228:ASN:OD1	3:4G:501:GTP:N1	2.46	0.42
2:4S:320:ARG:NH1	2:4S:360:PRO:HG3	2.34	0.42
1:1B:254:GLU:HG2	2:4O:101:ASN:H	1.84	0.42
1:1C:253:THR:HG23	1:1C:256:GLN:HE21	1.84	0.42
1:1C:260:VAL:HG11	2:4P:407:TRP:CZ2	2.55	0.42
1:1D:251:ASP:OD2	2:4Q:98:GLY:HA3	2.19	0.42
1:1D:280:LYS:NZ	1:1E:90:GLU:OE2	2.39	0.42
1:1F:253:THR:HB	2:4S:100:GLY:CA	2.50	0.42
1:1F:326:LYS:CG	2:4S:210:TYR:CD1	3.02	0.42
1:1I:325:PRO:HB2	2:4U:224:TYR:CE1	2.54	0.42
1:1J:324:VAL:HG12	2:4V:222:PRO:O	2.19	0.42
1:1K:283:HIS:HB3	1:1L:88:HIS:CB	2.50	0.42
1:1N:261:PRO:N	2:4Z:404:PHE:CD1	2.88	0.42
2:1H:404:PHE:HE1	1:2A:260:VAL:N	2.17	0.42
2:1O:101:ASN:ND2	1:2B:258:ASN:OD1	2.53	0.42
2:1S:179:ASP:O	1:2F:352:LYS:HD2	2.20	0.42
2:1X:222:PRO:HD2	1:2L:326:LYS:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2I:228:ASN:OD1	3:2I:501:GTP:N1	2.46	0.42
1:2L:283:HIS:HB3	1:2M:88:HIS:CB	2.49	0.42
1:2N:241:SER:OG	1:2N:250:VAL:O	2.25	0.42
5:2P:501:GDP:C8	1:3C:248:LEU:CD1	3.00	0.42
2:2R:394:GLN:HG2	1:3E:348:PRO:HG2	1.76	0.42
2:2T:210:TYR:CD2	1:3G:329:ASN:CB	3.02	0.42
2:2U:139:HIS:ND1	2:2U:140:SER:O	2.42	0.42
2:2V:181:VAL:H	1:3J:258:ASN:HD22	1.67	0.42
1:3I:228:ASN:OD1	3:3I:501:GTP:N1	2.46	0.42
1:3I:253:THR:HG23	1:3I:256:GLN:HE21	1.84	0.42
1:3J:229:ARG:HD2	1:3J:363:VAL:HG11	2.01	0.42
1:3K:283:HIS:HB3	1:3L:88:HIS:CB	2.49	0.42
2:3U:139:HIS:ND1	2:3U:140:SER:O	2.42	0.42
2:3Z:167:ASN:OD1	2:3Z:167:ASN:N	2.51	0.42
1:4G:334:THR:O	1:4G:337:THR:OG1	2.32	0.42
1:4I:253:THR:HG23	1:4I:256:GLN:HE21	1.84	0.42
1:4K:283:HIS:HB3	1:4L:88:HIS:CB	2.50	0.42
2:4H:320:ARG:NH1	2:4H:360:PRO:HG3	2.34	0.42
2:4U:139:HIS:ND1	2:4U:140:SER:O	2.42	0.42
1:1A:261:PRO:CA	2:4H:404:PHE:H	2.32	0.42
1:1B:248:LEU:CA	2:4O:11:GLN:NE2	2.82	0.42
1:1B:258:ASN:O	2:4O:181:VAL:CB	2.68	0.42
1:1D:2:ARG:HD3	2:4Q:71:GLU:HB2	2.01	0.42
1:1E:253:THR:CB	2:4R:100:GLY:HA2	2.50	0.42
1:1E:348:PRO:HB2	2:4R:394:GLN:CD	2.39	0.42
1:1G:283:HIS:HB3	1:1I:88:HIS:CB	2.50	0.42
1:1G:326:LYS:CG	2:4T:222:PRO:HG2	2.50	0.42
1:1G:439:SER:CB	2:4T:400:ARG:CD	2.98	0.42
1:1I:253:THR:HG23	1:1I:256:GLN:HE21	1.84	0.42
1:1I:326:LYS:HG2	2:4U:210:TYR:CD1	2.54	0.42
1:1K:261:PRO:HB3	2:4W:404:PHE:CE1	2.55	0.42
1:1L:283:HIS:HB3	1:1M:88:HIS:CB	2.50	0.42
1:1N:89:PRO:CD	2:2Y:283:TYR:CD1	3.01	0.42
1:1N:229:ARG:HD2	1:1N:363:VAL:HG11	2.01	0.42
1:1N:241:SER:OG	1:1N:250:VAL:O	2.25	0.42
2:1W:394:GLN:NE2	1:2K:349:THR:CG2	2.82	0.42
2:1Y:401:ARG:HH22	1:2M:435:VAL:HA	1.85	0.42
1:2B:229:ARG:HD2	1:2B:363:VAL:HG11	2.01	0.42
1:2I:253:THR:HG23	1:2I:256:GLN:HE21	1.84	0.42
1:2J:229:ARG:HD2	1:2J:363:VAL:HG11	2.01	0.42
1:2K:283:HIS:HB3	1:2L:88:HIS:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2H:320:ARG:NH1	2:2H:360:PRO:HG3	2.34	0.42
2:2H:394:GLN:CD	1:3A:349:THR:HG23	2.39	0.42
2:2O:394:GLN:HA	1:3B:348:PRO:HG3	2.02	0.42
2:2S:404:PHE:HA	1:3F:261:PRO:CA	2.46	0.42
2:2T:181:VAL:CB	1:3G:258:ASN:O	2.68	0.42
2:2T:404:PHE:HE2	1:3G:346:TRP:HH2	1.68	0.42
2:2X:404:PHE:HA	1:3L:261:PRO:O	2.19	0.42
2:2Y:221:THR:CB	1:3M:324:VAL:HG21	2.36	0.42
2:2Y:401:ARG:NH2	1:3M:435:VAL:HA	2.34	0.42
2:2Z:139:HIS:ND1	2:2Z:140:SER:O	2.42	0.42
1:3E:229:ARG:HD2	1:3E:363:VAL:HG11	2.01	0.42
1:3N:229:ARG:HD2	1:3N:363:VAL:HG11	2.01	0.42
2:3Z:139:HIS:ND1	2:3Z:140:SER:O	2.42	0.42
1:4B:283:HIS:HB3	1:4C:88:HIS:CB	2.50	0.42
1:4J:229:ARG:HD2	1:4J:363:VAL:HG11	2.01	0.42
1:4N:229:ARG:HD2	1:4N:363:VAL:HG11	2.01	0.42
2:4Z:139:HIS:ND1	2:4Z:140:SER:O	2.42	0.42
2:4Z:209:LEU:HB3	2:4Z:227:LEU:HG	2.01	0.42
1:1A:241:SER:OG	1:1A:250:VAL:O	2.25	0.42
1:1A:247:ALA:O	2:4H:15:GLN:NE2	2.50	0.42
1:1A:249:ASN:N	2:4H:11:GLN:OE1	2.48	0.42
1:1A:283:HIS:HB3	1:1B:88:HIS:CB	2.50	0.42
1:1B:229:ARG:HD2	1:1B:363:VAL:HG11	2.01	0.42
1:1G:349:THR:CB	2:4T:184:PRO:CD	2.77	0.42
1:1I:352:LYS:HD3	2:4U:101:ASN:HD22	1.81	0.42
1:1M:349:THR:OG1	2:4Y:184:PRO:HD2	2.20	0.42
2:1T:178:SER:HB3	1:2G:349:THR:CG2	2.49	0.42
2:1T:387:LEU:HD12	2:1T:390:ARG:HH22	1.85	0.42
2:1V:406:HIS:NE2	1:2J:263:PRO:HB3	2.35	0.42
2:1W:176:LYS:NZ	1:2K:333:ALA:CB	2.83	0.42
2:1W:403:ALA:HB1	1:2K:261:PRO:HB2	2.01	0.42
2:1Z:139:HIS:ND1	2:1Z:140:SER:O	2.42	0.42
2:1Z:404:PHE:CE2	1:2N:261:PRO:CB	2.97	0.42
1:2A:241:SER:OG	1:2A:250:VAL:O	2.25	0.42
1:2B:283:HIS:HB3	1:2C:88:HIS:CB	2.50	0.42
1:2E:229:ARG:HD2	1:2E:363:VAL:HG11	2.01	0.42
1:2G:283:HIS:HB3	1:2I:88:HIS:CB	2.50	0.42
1:2N:62:VAL:HA	1:2N:63:PRO:HD3	1.89	0.42
1:2N:229:ARG:HD2	1:2N:363:VAL:HG11	2.01	0.42
2:2Q:209:LEU:HB3	2:2Q:227:LEU:HG	2.01	0.42
2:2R:101:ASN:HB2	1:3E:254:GLU:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2R:209:LEU:HB3	2:2R:227:LEU:HG	2.01	0.42
2:2R:404:PHE:CB	1:3E:261:PRO:HA	2.48	0.42
2:2S:179:ASP:OD1	1:3F:353:VAL:CB	2.64	0.42
2:2T:10:GLY:HA2	2:2T:145:THR:HB	2.02	0.42
2:2T:96:GLN:OE1	1:3G:1:MET:O	2.38	0.42
2:2X:397:ALA:HB1	1:3L:346:TRP:HA	2.02	0.42
1:3A:241:SER:OG	1:3A:250:VAL:O	2.25	0.42
1:3A:283:HIS:HB3	1:3B:88:HIS:CB	2.50	0.42
1:3B:229:ARG:HD2	1:3B:363:VAL:HG11	2.01	0.42
1:3B:283:HIS:HB3	1:3C:88:HIS:CB	2.50	0.42
1:3G:283:HIS:HB3	1:3I:88:HIS:CB	2.50	0.42
1:3L:283:HIS:HB3	1:3M:88:HIS:CB	2.50	0.42
1:3N:62:VAL:HA	1:3N:63:PRO:HD3	1.90	0.42
2:3Q:209:LEU:HB3	2:3Q:227:LEU:HG	2.01	0.42
2:3R:209:LEU:HB3	2:3R:227:LEU:HG	2.01	0.42
2:3S:387:LEU:HD12	2:3S:390:ARG:HH22	1.85	0.42
1:4G:283:HIS:HB3	1:4I:88:HIS:CB	2.50	0.42
1:4L:283:HIS:HB3	1:4M:88:HIS:CB	2.50	0.42
2:4S:10:GLY:HA2	2:4S:145:THR:HB	2.02	0.42
2:4S:165:ILE:H	2:4S:165:ILE:HG13	1.70	0.42
2:4T:10:GLY:HA2	2:4T:145:THR:HB	2.02	0.42
1:1A:325:PRO:O	2:4H:210:TYR:CZ	2.73	0.41
1:1A:334:THR:O	1:1A:337:THR:OG1	2.32	0.41
1:1B:100:ALA:N	3:1B:501:GTP:O2G	2.53	0.41
1:1B:247:ALA:HB1	2:4O:224:TYR:CD2	2.54	0.41
1:1B:283:HIS:HB3	1:1C:88:HIS:CB	2.49	0.41
1:1C:325:PRO:HD2	2:4P:223:THR:CA	2.45	0.41
1:1C:329:ASN:ND2	2:4P:207:GLU:HA	2.35	0.41
1:1D:346:TRP:CD1	2:4Q:401:ARG:HG3	2.54	0.41
1:1E:253:THR:O	2:4R:100:GLY:CA	2.68	0.41
1:1I:348:PRO:HD2	2:4U:398:MET:SD	2.59	0.41
1:1K:349:THR:O	2:4W:181:VAL:O	2.38	0.41
1:1M:332:ILE:HB	2:4Y:177:VAL:HG21	2.01	0.41
1:1M:439:SER:OG	2:4Y:401:ARG:HD3	2.20	0.41
2:1O:209:LEU:HB3	2:1O:227:LEU:HG	2.01	0.41
2:1P:214:PHE:CG	1:2C:326:LYS:CE	3.03	0.41
2:1Q:209:LEU:HB3	2:1Q:227:LEU:HG	2.01	0.41
2:1S:214:PHE:HD1	1:2F:326:LYS:HE2	1.68	0.41
2:1T:209:LEU:HB3	2:1T:227:LEU:HG	2.01	0.41
2:1W:214:PHE:CG	1:2K:326:LYS:NZ	2.84	0.41
2:1X:101:ASN:O	1:2L:257:THR:HG21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1Z:176:LYS:HE2	1:2N:333:ALA:CB	2.49	0.41
1:2A:283:HIS:HB3	1:2B:88:HIS:CB	2.50	0.41
1:2G:334:THR:O	1:2G:337:THR:OG1	2.32	0.41
1:2M:100:ALA:N	3:2M:501:GTP:O2G	2.53	0.41
2:2S:10:GLY:HA2	2:2S:145:THR:HB	2.02	0.41
2:2S:387:LEU:HD12	2:2S:390:ARG:HH22	1.85	0.41
2:2U:394:GLN:OE1	1:3I:349:THR:HG23	2.20	0.41
2:2X:101:ASN:HB3	1:3L:257:THR:HB	2.02	0.41
1:3G:334:THR:O	1:3G:337:THR:OG1	2.32	0.41
2:3S:10:GLY:HA2	2:3S:145:THR:HB	2.02	0.41
2:3T:10:GLY:HA2	2:3T:145:THR:HB	2.02	0.41
2:3T:387:LEU:HD12	2:3T:390:ARG:HH22	1.85	0.41
1:4A:241:SER:OG	1:4A:250:VAL:O	2.25	0.41
1:4B:229:ARG:HD2	1:4B:363:VAL:HG11	2.01	0.41
1:4E:229:ARG:HD2	1:4E:363:VAL:HG11	2.01	0.41
1:4I:228:ASN:OD1	3:4I:501:GTP:N1	2.46	0.41
2:4Q:209:LEU:HB3	2:4Q:227:LEU:HG	2.01	0.41
2:4R:10:GLY:HA2	2:4R:145:THR:HB	2.02	0.41
2:4R:209:LEU:HB3	2:4R:227:LEU:HG	2.01	0.41
2:4S:387:LEU:HD12	2:4S:390:ARG:HH22	1.85	0.41
2:4T:387:LEU:HD12	2:4T:390:ARG:HH22	1.85	0.41
2:4U:10:GLY:HA2	2:4U:145:THR:HB	2.02	0.41
1:1A:228:ASN:OD1	3:1A:501:GTP:N1	2.46	0.41
1:1B:260:VAL:HG12	2:4O:406:HIS:CE1	2.56	0.41
1:1B:262:TYR:OH	2:4O:401:ARG:C	2.57	0.41
1:1B:349:THR:HA	2:4O:178:SER:HB3	2.02	0.41
1:1D:2:ARG:HH22	2:4Q:73:GLY:HA3	1.83	0.41
1:1E:2:ARG:HH22	2:4R:73:GLY:HA3	1.84	0.41
1:1F:133:GLN:HG2	2:4S:97:SER:HA	2.02	0.41
1:1F:257:THR:HG21	2:4S:102:ASN:CA	2.50	0.41
1:1I:325:PRO:HG2	2:4U:224:TYR:CD1	2.55	0.41
1:1L:261:PRO:CB	2:4X:404:PHE:CD1	3.04	0.41
1:1L:349:THR:OG1	2:4X:184:PRO:HD2	2.18	0.41
1:1M:100:ALA:N	3:1M:501:GTP:O2G	2.54	0.41
2:1R:10:GLY:HA2	2:1R:145:THR:HB	2.02	0.41
2:1R:209:LEU:HB3	2:1R:227:LEU:HG	2.01	0.41
2:1S:10:GLY:HA2	2:1S:145:THR:HB	2.02	0.41
2:1S:209:LEU:HB3	2:1S:227:LEU:HG	2.01	0.41
2:1S:387:LEU:HD12	2:1S:390:ARG:HH22	1.85	0.41
2:1T:10:GLY:HA2	2:1T:145:THR:HB	2.02	0.41
2:1U:10:GLY:HA2	2:1U:145:THR:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1X:100:GLY:CA	1:2L:253:THR:CB	2.59	0.41
5:1X:501:GDP:H2'	1:2L:248:LEU:CD1	2.49	0.41
1:2B:100:ALA:N	3:2B:501:GTP:O2G	2.54	0.41
1:2E:100:ALA:N	3:2E:501:GTP:O2G	2.53	0.41
1:2L:229:ARG:HD2	1:2L:363:VAL:HG11	2.01	0.41
2:2H:406:HIS:CD2	1:3A:263:PRO:N	2.86	0.41
2:2O:209:LEU:HB3	2:2O:227:LEU:HG	2.01	0.41
2:2T:209:LEU:HB3	2:2T:227:LEU:HG	2.01	0.41
2:2T:387:LEU:HD12	2:2T:390:ARG:HH22	1.86	0.41
2:2U:10:GLY:HA2	2:2U:145:THR:HB	2.02	0.41
1:3A:334:THR:O	1:3A:337:THR:OG1	2.32	0.41
1:3E:100:ALA:N	3:3E:501:GTP:O2G	2.54	0.41
1:3L:229:ARG:HD2	1:3L:363:VAL:HG11	2.01	0.41
2:3R:10:GLY:HA2	2:3R:145:THR:HB	2.02	0.41
2:3T:209:LEU:HB3	2:3T:227:LEU:HG	2.01	0.41
2:3U:10:GLY:HA2	2:3U:145:THR:HB	2.02	0.41
2:3V:205:ASP:OD2	2:3V:304:ALA:N	2.36	0.41
2:3V:209:LEU:HB3	2:3V:227:LEU:HG	2.01	0.41
1:4A:283:HIS:HB3	1:4B:88:HIS:CB	2.50	0.41
1:4B:100:ALA:N	3:4B:501:GTP:O2G	2.54	0.41
1:4L:229:ARG:HD2	1:4L:363:VAL:HG11	2.01	0.41
1:4M:100:ALA:N	3:4M:501:GTP:O2G	2.54	0.41
2:4O:209:LEU:HB3	2:4O:227:LEU:HG	2.01	0.41
2:4T:209:LEU:HB3	2:4T:227:LEU:HG	2.01	0.41
1:1A:346:TRP:CA	2:4H:397:ALA:O	2.67	0.41
1:1E:2:ARG:HG2	2:4R:72:PRO:CD	2.44	0.41
1:1E:100:ALA:N	3:1E:501:GTP:O2G	2.54	0.41
1:1E:256:GLN:HB2	2:4R:407:TRP:CH2	2.54	0.41
1:1E:352:LYS:CE	2:4R:101:ASN:ND2	2.82	0.41
1:1G:2:ARG:NH2	2:4T:73:GLY:CA	2.83	0.41
1:1G:257:THR:HG21	2:4T:102:ASN:CB	2.49	0.41
1:1G:260:VAL:CG1	2:4T:407:TRP:CE2	3.02	0.41
1:1G:334:THR:O	1:1G:337:THR:OG1	2.32	0.41
1:1K:245:ASP:OD1	2:4W:77:SER:CB	2.42	0.41
1:1K:350:GLY:HA2	2:4W:181:VAL:HG13	2.01	0.41
1:1L:229:ARG:HD2	1:1L:363:VAL:HG11	2.01	0.41
1:1N:348:PRO:HG3	2:4Z:394:GLN:CA	2.50	0.41
2:1Q:406:HIS:NE2	1:2D:263:PRO:HD3	2.35	0.41
2:1T:214:PHE:CG	1:2G:326:LYS:NZ	2.87	0.41
2:1X:221:THR:C	1:2L:324:VAL:CG1	2.89	0.41
2:2H:11:GLN:NE2	1:3A:249:ASN:ND2	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2O:11:GLN:CD	1:3B:249:ASN:HB2	2.39	0.41
2:2O:77:SER:CB	1:3B:245:ASP:OD1	2.62	0.41
2:2Q:398:MET:CG	1:3D:346:TRP:O	2.69	0.41
2:2R:10:GLY:HA2	2:2R:145:THR:HB	2.02	0.41
2:2R:406:HIS:ND1	1:3E:263:PRO:HB3	2.35	0.41
2:2S:165:ILE:H	2:2S:165:ILE:HG13	1.70	0.41
2:2S:178:SER:OG	1:3F:350:GLY:N	2.53	0.41
2:2S:209:LEU:HB3	2:2S:227:LEU:HG	2.01	0.41
2:2T:406:HIS:CE1	1:3G:263:PRO:CB	3.04	0.41
2:2U:406:HIS:CD2	1:3I:262:TYR:CA	3.02	0.41
2:2V:209:LEU:HB3	2:2V:227:LEU:HG	2.01	0.41
2:2X:71:GLU:HB2	1:3L:2:ARG:HD3	2.01	0.41
2:2X:72:PRO:CD	1:3L:2:ARG:CG	2.98	0.41
2:2X:179:ASP:OD1	1:3L:353:VAL:HB	2.20	0.41
1:3A:228:ASN:OD1	3:3A:501:GTP:N1	2.46	0.41
1:3B:100:ALA:N	3:3B:501:GTP:O2G	2.54	0.41
1:3M:100:ALA:N	3:3M:501:GTP:O2G	2.54	0.41
2:3O:209:LEU:HB3	2:3O:227:LEU:HG	2.01	0.41
2:3S:209:LEU:HB3	2:3S:227:LEU:HG	2.01	0.41
1:4E:100:ALA:N	3:4E:501:GTP:O2G	2.54	0.41
1:4N:62:VAL:HA	1:4N:63:PRO:HD3	1.89	0.41
2:4S:209:LEU:HB3	2:4S:227:LEU:HG	2.01	0.41
2:4V:10:GLY:HA2	2:4V:145:THR:HB	2.02	0.41
2:4Y:165:ILE:H	2:4Y:165:ILE:HG13	1.70	0.41
1:1A:229:ARG:HD2	1:1A:363:VAL:HG11	2.01	0.41
1:1A:435:VAL:HA	2:4H:401:ARG:NH2	2.35	0.41
1:1B:259:LEU:C	2:4O:404:PHE:HE1	2.24	0.41
1:1B:261:PRO:CB	2:4O:404:PHE:CE2	2.86	0.41
1:1C:249:ASN:HB2	2:4P:11:GLN:CD	2.41	0.41
1:1C:253:THR:O	2:4P:100:GLY:O	2.38	0.41
1:1D:439:SER:CB	2:4Q:400:ARG:HD3	2.49	0.41
1:1E:62:VAL:HA	1:1E:63:PRO:HD3	1.89	0.41
1:1J:262:TYR:OH	2:4V:403:ALA:N	2.53	0.41
1:1J:346:TRP:O	2:4V:398:MET:HG3	2.03	0.41
1:1K:100:ALA:N	3:1K:501:GTP:O2G	2.53	0.41
2:1H:210:TYR:HD2	1:2A:329:ASN:HD22	1.67	0.41
2:1T:11:GLN:HE22	1:2G:249:ASN:CB	2.34	0.41
2:1U:207:GLU:CD	1:2I:329:ASN:HD21	2.23	0.41
2:1V:209:LEU:HB3	2:1V:227:LEU:HG	2.01	0.41
2:1W:10:GLY:HA2	2:1W:145:THR:HB	2.02	0.41
2:1X:179:ASP:CG	1:2L:248:LEU:HD21	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:228:ASN:OD1	3:2A:501:GTP:N1	2.46	0.41
1:2A:229:ARG:HD2	1:2A:363:VAL:HG11	2.01	0.41
1:2K:100:ALA:N	3:2K:501:GTP:O2G	2.53	0.41
2:2P:404:PHE:CA	1:3C:261:PRO:O	2.65	0.41
2:2T:394:GLN:CB	1:3G:348:PRO:HG3	2.49	0.41
2:2V:10:GLY:HA2	2:2V:145:THR:HB	2.02	0.41
2:2V:205:ASP:OD2	2:2V:304:ALA:N	2.36	0.41
2:2V:221:THR:HG1	1:3J:324:VAL:CG2	2.01	0.41
2:2W:179:ASP:OD1	1:3K:353:VAL:HB	2.20	0.41
2:2Y:209:LEU:HB3	2:2Y:227:LEU:HG	2.01	0.41
1:3A:229:ARG:HD2	1:3A:363:VAL:HG11	2.01	0.41
1:4A:100:ALA:N	3:4A:501:GTP:O2G	2.53	0.41
1:4A:229:ARG:HD2	1:4A:363:VAL:HG11	2.01	0.41
1:1B:2:ARG:CZ	2:4O:73:GLY:CA	2.99	0.41
1:1E:253:THR:HG23	1:1E:256:GLN:HE21	1.84	0.41
1:1E:325:PRO:CD	2:4R:223:THR:HA	2.48	0.41
1:1G:329:ASN:HB3	2:4T:210:TYR:CE2	2.55	0.41
1:1J:346:TRP:CZ3	2:4V:403:ALA:HB1	2.55	0.41
1:1K:351:PHE:N	2:4W:181:VAL:HG22	2.36	0.41
1:1L:258:ASN:HD21	2:4X:101:ASN:CG	2.24	0.41
2:1Q:224:TYR:CE2	1:2D:248:LEU:HB2	2.53	0.41
2:1U:387:LEU:HD12	2:1U:390:ARG:HH22	1.85	0.41
2:1X:406:HIS:CD2	1:2L:263:PRO:CD	2.97	0.41
2:1Z:11:GLN:HE22	1:2N:249:ASN:ND2	2.15	0.41
2:1Z:394:GLN:CD	1:2N:349:THR:CG2	2.89	0.41
2:1Z:404:PHE:CD1	1:2N:257:THR:O	2.73	0.41
2:2O:73:GLY:HA3	1:3B:2:ARG:NH2	2.35	0.41
2:2O:404:PHE:N	1:3B:261:PRO:CA	2.83	0.41
2:2Q:10:GLY:HA2	2:2Q:145:THR:HB	2.02	0.41
2:2S:394:GLN:CB	1:3F:348:PRO:HG3	2.49	0.41
2:2U:407:TRP:HE1	1:3I:260:VAL:CB	2.30	0.41
2:2V:178:SER:O	1:3J:351:PHE:C	2.58	0.41
2:2W:10:GLY:HA2	2:2W:145:THR:HB	2.02	0.41
2:2W:11:GLN:NE2	1:3K:249:ASN:CB	2.83	0.41
2:2Z:101:ASN:HB2	1:3N:254:GLU:CB	2.51	0.41
1:3A:100:ALA:N	3:3A:501:GTP:O2G	2.54	0.41
2:3R:387:LEU:HD12	2:3R:390:ARG:HH22	1.85	0.41
2:3U:387:LEU:HD12	2:3U:390:ARG:HH22	1.85	0.41
2:3V:10:GLY:HA2	2:3V:145:THR:HB	2.02	0.41
1:4M:241:SER:OG	1:4M:250:VAL:O	2.25	0.41
2:4R:387:LEU:HD12	2:4R:390:ARG:HH22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4U:387:LEU:HD12	2:4U:390:ARG:HH22	1.85	0.41
2:4V:209:LEU:HB3	2:4V:227:LEU:HG	2.01	0.41
2:4Y:209:LEU:HB3	2:4Y:227:LEU:HG	2.01	0.41
1:1A:100:ALA:N	3:1A:501:GTP:O2G	2.54	0.41
1:1C:262:TYR:OH	2:4P:403:ALA:CA	2.68	0.41
1:1D:249:ASN:HB2	2:4Q:11:GLN:OE1	2.20	0.41
1:1D:260:VAL:CB	2:4Q:407:TRP:CE2	2.90	0.41
1:1D:348:PRO:HB2	2:4Q:394:GLN:CD	2.40	0.41
1:1D:352:LYS:HA	2:4Q:180:THR:HA	2.02	0.41
1:1F:248:LEU:HB2	2:4S:224:TYR:HE2	1.85	0.41
1:1F:258:ASN:HD21	2:4S:180:THR:CG2	2.30	0.41
1:1G:352:LYS:CD	2:4T:101:ASN:ND2	2.73	0.41
1:1I:100:ALA:N	3:1I:501:GTP:O2G	2.54	0.41
1:1J:257:THR:CG2	2:4V:102:ASN:HB2	2.51	0.41
1:1J:261:PRO:CB	2:4V:404:PHE:H	2.34	0.41
1:1K:348:PRO:CG	2:4W:394:GLN:HG2	2.51	0.41
1:1M:229:ARG:HD2	1:1M:363:VAL:HG11	2.01	0.41
1:1M:353:VAL:CG2	2:4Y:179:ASP:OD1	2.69	0.41
1:1N:349:THR:CA	2:4Z:178:SER:CB	2.97	0.41
2:1P:209:LEU:HB3	2:1P:227:LEU:HG	2.01	0.41
2:1R:387:LEU:HD12	2:1R:390:ARG:HH22	1.86	0.41
2:1U:209:LEU:HB3	2:1U:227:LEU:HG	2.01	0.41
2:1V:10:GLY:HA2	2:1V:145:THR:HB	2.02	0.41
2:1W:205:ASP:OD2	2:1W:304:ALA:N	2.36	0.41
2:1Y:209:LEU:HB3	2:1Y:227:LEU:HG	2.01	0.41
2:1Y:387:LEU:HD12	2:1Y:390:ARG:HH22	1.85	0.41
1:2A:100:ALA:N	3:2A:501:GTP:O2G	2.54	0.41
1:2E:253:THR:HG23	1:2E:256:GLN:HE21	1.84	0.41
1:2L:100:ALA:N	3:2L:501:GTP:O2G	2.53	0.41
1:2M:229:ARG:HD2	1:2M:363:VAL:HG11	2.01	0.41
1:2M:241:SER:OG	1:2M:250:VAL:O	2.25	0.41
5:2O:501:GDP:C8	1:3B:248:LEU:CD1	3.03	0.41
2:2P:209:LEU:HB3	2:2P:227:LEU:HG	2.01	0.41
2:2Q:176:LYS:O	1:3D:336:LYS:NZ	2.32	0.41
2:2R:387:LEU:HD12	2:2R:390:ARG:HH22	1.86	0.41
2:2S:181:VAL:HB	1:3F:258:ASN:O	2.20	0.41
2:2U:101:ASN:O	1:3I:257:THR:CG2	2.53	0.41
2:2U:387:LEU:HD12	2:2U:390:ARG:HH22	1.86	0.41
2:2W:406:HIS:CG	1:3K:263:PRO:CD	2.89	0.41
2:2X:181:VAL:N	1:3L:258:ASN:ND2	2.68	0.41
2:2Y:165:ILE:H	2:2Y:165:ILE:HG13	1.70	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3E:253:THR:HG23	1:3E:256:GLN:HE21	1.84	0.41
1:3K:100:ALA:N	3:3K:501:GTP:O2G	2.54	0.41
1:3L:100:ALA:N	3:3L:501:GTP:O2G	2.53	0.41
1:3M:229:ARG:HD2	1:3M:363:VAL:HG11	2.01	0.41
2:3P:209:LEU:HB3	2:3P:227:LEU:HG	2.01	0.41
2:3S:165:ILE:H	2:3S:165:ILE:HG13	1.70	0.41
2:3U:209:LEU:HB3	2:3U:227:LEU:HG	2.01	0.41
2:3W:10:GLY:HA2	2:3W:145:THR:HB	2.02	0.41
2:3Y:165:ILE:H	2:3Y:165:ILE:HG13	1.70	0.41
1:4C:280:LYS:NZ	1:4D:90:GLU:OE2	2.38	0.41
1:4K:100:ALA:N	3:4K:501:GTP:O2G	2.54	0.41
2:4W:10:GLY:HA2	2:4W:145:THR:HB	2.02	0.41
1:1C:100:ALA:N	3:1C:501:GTP:O2G	2.54	0.41
1:1C:260:VAL:N	2:4P:404:PHE:HE1	2.19	0.41
1:1D:325:PRO:CG	2:4Q:224:TYR:CD1	3.00	0.41
1:1E:326:LYS:HG2	2:4R:210:TYR:CG	2.55	0.41
1:1E:346:TRP:CD1	2:4R:401:ARG:HG3	2.54	0.41
1:1G:100:ALA:N	3:1G:501:GTP:O2G	2.53	0.41
1:1G:263:PRO:HA	2:4T:406:HIS:CE1	2.56	0.41
1:1I:261:PRO:CB	2:4U:404:PHE:CG	2.99	0.41
1:1J:348:PRO:HG3	2:4V:394:GLN:HB3	1.98	0.41
1:1K:172:TYR:N	1:1K:204:VAL:O	2.43	0.41
1:1L:257:THR:HG21	2:4X:102:ASN:HB2	2.03	0.41
2:1X:10:GLY:HA2	2:1X:145:THR:HB	2.02	0.41
2:1Z:224:TYR:CD2	1:2N:247:ALA:HB1	2.56	0.41
1:2I:100:ALA:N	3:2I:501:GTP:O2G	2.54	0.41
1:2K:172:TYR:N	1:2K:204:VAL:O	2.43	0.41
2:2O:394:GLN:OE1	1:3B:349:THR:HG21	2.19	0.41
2:2O:394:GLN:CG	1:3B:348:PRO:HG3	2.40	0.41
2:2P:181:VAL:H	1:3C:258:ASN:ND2	2.19	0.41
2:2R:406:HIS:CE1	1:3E:263:PRO:N	2.87	0.41
2:2S:404:PHE:CE1	1:3F:261:PRO:CA	3.03	0.41
2:2U:209:LEU:HB3	2:2U:227:LEU:HG	2.01	0.41
2:2V:404:PHE:CD1	1:3J:260:VAL:O	2.74	0.41
5:2X:501:GDP:C8	1:3L:248:LEU:CD1	3.01	0.41
1:3C:100:ALA:N	3:3C:501:GTP:O2G	2.53	0.41
1:3E:62:VAL:HA	1:3E:63:PRO:HD3	1.89	0.41
1:3G:100:ALA:N	3:3G:501:GTP:O2G	2.53	0.41
1:3I:100:ALA:N	3:3I:501:GTP:O2G	2.54	0.41
1:3J:100:ALA:N	3:3J:501:GTP:O2G	2.53	0.41
1:3J:185:TYR:HB3	1:3J:408:TYR:HE2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3M:241:SER:OG	1:3M:250:VAL:O	2.25	0.41
2:3Q:10:GLY:HA2	2:3Q:145:THR:HB	2.02	0.41
1:4C:100:ALA:N	3:4C:501:GTP:O2G	2.54	0.41
1:4D:100:ALA:N	3:4D:501:GTP:O2G	2.53	0.41
1:4I:100:ALA:N	3:4I:501:GTP:O2G	2.53	0.41
1:4J:280:LYS:NZ	1:4K:90:GLU:OE2	2.38	0.41
1:4K:172:TYR:N	1:4K:204:VAL:O	2.43	0.41
1:4L:100:ALA:N	3:4L:501:GTP:O2G	2.54	0.41
1:4M:229:ARG:HD2	1:4M:363:VAL:HG11	2.01	0.41
2:4P:209:LEU:HB3	2:4P:227:LEU:HG	2.01	0.41
2:4Q:10:GLY:HA2	2:4Q:145:THR:HB	2.02	0.41
2:4U:209:LEU:HB3	2:4U:227:LEU:HG	2.01	0.41
2:4V:205:ASP:OD2	2:4V:304:ALA:N	2.36	0.41
2:4W:12:CYS:HG	2:4W:140:SER:HG	1.68	0.41
1:1C:2:ARG:CZ	2:4P:73:GLY:CA	2.98	0.41
1:1D:349:THR:CB	2:4Q:184:PRO:CD	2.87	0.41
1:1E:351:PHE:CD2	2:4R:178:SER:OG	2.65	0.41
1:1F:254:GLU:CA	2:4S:100:GLY:HA2	2.47	0.41
1:1L:100:ALA:N	3:1L:501:GTP:O2G	2.54	0.41
1:1M:351:PHE:O	2:4Y:179:ASP:C	2.59	0.41
2:1Q:10:GLY:HA2	2:1Q:145:THR:HB	2.02	0.41
2:1R:403:ALA:CB	1:2E:262:TYR:CZ	3.00	0.41
2:1S:165:ILE:H	2:1S:165:ILE:HG13	1.70	0.41
2:1S:224:TYR:HD1	2:1S:224:TYR:HA	1.80	0.41
2:1V:207:GLU:OE1	1:2J:329:ASN:ND2	2.48	0.41
2:1X:224:TYR:OH	1:2L:248:LEU:HB2	2.20	0.41
1:2C:100:ALA:N	3:2C:501:GTP:O2G	2.54	0.41
1:2D:100:ALA:N	3:2D:501:GTP:O2G	2.54	0.41
1:2E:62:VAL:HA	1:2E:63:PRO:HD3	1.90	0.41
1:2G:100:ALA:N	3:2G:501:GTP:O2G	2.54	0.41
1:2J:100:ALA:N	3:2J:501:GTP:O2G	2.54	0.41
2:2O:181:VAL:N	1:3B:258:ASN:ND2	2.69	0.41
2:2P:222:PRO:O	1:3C:325:PRO:HD2	2.20	0.41
2:2V:72:PRO:CD	1:3J:2:ARG:HD3	2.46	0.41
2:2X:10:GLY:HA2	2:2X:145:THR:HB	2.02	0.41
2:2Y:387:LEU:HD12	2:2Y:390:ARG:HH22	1.85	0.41
2:2Y:397:ALA:HB1	1:3M:346:TRP:HA	2.02	0.41
2:2Y:404:PHE:CD2	1:3M:261:PRO:HA	2.46	0.41
2:2Z:11:GLN:NE2	1:3N:249:ASN:CB	2.84	0.41
2:2Z:11:GLN:NE2	1:3N:249:ASN:N	2.42	0.41
1:3D:100:ALA:N	3:3D:501:GTP:O2G	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3K:172:TYR:N	1:3K:204:VAL:O	2.43	0.41
2:3Y:209:LEU:HB3	2:3Y:227:LEU:HG	2.01	0.41
2:3Y:387:LEU:HD12	2:3Y:390:ARG:HH22	1.85	0.41
1:4C:334:THR:O	1:4C:337:THR:OG1	2.32	0.41
1:4E:253:THR:HG23	1:4E:256:GLN:HE21	1.84	0.41
1:4G:100:ALA:N	3:4G:501:GTP:O2G	2.54	0.41
1:4J:100:ALA:N	3:4J:501:GTP:O2G	2.54	0.41
2:4Y:387:LEU:HD12	2:4Y:390:ARG:HH22	1.86	0.41
1:1A:261:PRO:CB	2:4H:404:PHE:CD1	3.04	0.41
1:1B:228:ASN:OD1	3:1B:501:GTP:N1	2.46	0.41
1:1B:241:SER:OG	1:1B:250:VAL:O	2.25	0.41
1:1B:324:VAL:HG11	2:4O:222:PRO:N	2.35	0.41
1:1C:262:TYR:CZ	2:4P:402:LYS:C	2.94	0.41
1:1C:399:TYR:OH	1:1C:415:GLU:OE2	2.25	0.41
1:1D:100:ALA:N	3:1D:501:GTP:O2G	2.54	0.41
1:1D:253:THR:O	2:4Q:100:GLY:O	2.37	0.41
1:1D:254:GLU:CA	2:4Q:100:GLY:C	2.85	0.41
1:1E:314:ALA:HB1	2:4R:181:VAL:CG1	2.43	0.41
1:1F:100:ALA:N	3:1F:501:GTP:O2G	2.54	0.41
1:1F:350:GLY:HA2	2:4S:181:VAL:HG13	2.02	0.41
1:1F:437:VAL:C	2:4S:401:ARG:HH12	2.03	0.41
1:1G:346:TRP:HB3	2:4T:397:ALA:O	2.16	0.41
1:1I:251:ASP:OD2	2:4U:98:GLY:CA	2.67	0.41
1:1I:346:TRP:HB2	2:4U:398:MET:CA	2.34	0.41
1:1I:352:LYS:HA	2:4U:179:ASP:O	2.20	0.41
1:1J:100:ALA:N	3:1J:501:GTP:O2G	2.54	0.41
1:1J:185:TYR:HB3	1:1J:408:TYR:HE2	1.86	0.41
1:1J:248:LEU:HA	2:4V:11:GLN:CD	2.30	0.41
1:1K:185:TYR:HB3	1:1K:408:TYR:HE2	1.86	0.41
1:1K:348:PRO:HD2	2:4W:398:MET:SD	2.61	0.41
1:1M:241:SER:OG	1:1M:250:VAL:O	2.25	0.41
1:1M:346:TRP:O	2:4Y:398:MET:CB	2.65	0.41
1:1N:257:THR:CG2	2:4Z:101:ASN:O	2.67	0.41
2:1P:181:VAL:CG2	1:2C:258:ASN:HB3	2.50	0.41
2:1Q:387:LEU:HD12	2:1Q:390:ARG:HH22	1.86	0.41
2:1S:101:ASN:HB2	1:2F:254:GLU:HG2	2.02	0.41
2:1X:387:LEU:HD12	2:1X:390:ARG:HH22	1.85	0.41
2:1Y:165:ILE:H	2:1Y:165:ILE:HG13	1.70	0.41
2:1Z:181:VAL:HB	1:2N:258:ASN:CB	2.50	0.41
1:2A:185:TYR:HB3	1:2A:408:TYR:HE2	1.86	0.41
1:2C:280:LYS:NZ	1:2D:90:GLU:OE2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2C:399:TYR:OH	1:2C:415:GLU:OE2	2.25	0.41
1:2E:334:THR:O	1:2E:337:THR:OG1	2.32	0.41
1:2F:100:ALA:N	3:2F:501:GTP:O2G	2.54	0.41
1:2J:185:TYR:HB3	1:2J:408:TYR:HE2	1.86	0.41
1:2K:185:TYR:HB3	1:2K:408:TYR:HE2	1.86	0.41
2:2H:401:ARG:HH22	1:3A:435:VAL:HA	1.81	0.41
2:2H:404:PHE:CA	1:3A:261:PRO:O	2.65	0.41
2:2O:100:GLY:HA2	1:3B:253:THR:C	2.41	0.41
2:2O:222:PRO:HG2	1:3B:326:LYS:CB	2.37	0.41
2:2Q:387:LEU:HD12	2:2Q:390:ARG:HH22	1.85	0.41
2:2S:224:TYR:HD1	2:2S:224:TYR:HA	1.80	0.41
2:2S:384:ILE:H	2:2S:384:ILE:HG13	1.79	0.41
2:2T:181:VAL:HG11	1:3G:314:ALA:CB	2.50	0.41
2:2T:406:HIS:HD2	1:3G:262:TYR:HA	1.81	0.41
2:2U:177:VAL:CG2	1:3I:332:ILE:CG2	2.91	0.41
2:2Z:404:PHE:CD1	1:3N:261:PRO:N	2.87	0.41
1:3A:185:TYR:HB3	1:3A:408:TYR:HE2	1.86	0.41
1:3D:185:TYR:HB3	1:3D:408:TYR:HE2	1.86	0.41
1:3F:100:ALA:N	3:3F:501:GTP:O2G	2.54	0.41
1:3K:185:TYR:HB3	1:3K:408:TYR:HE2	1.86	0.41
2:3Q:387:LEU:HD12	2:3Q:390:ARG:HH22	1.85	0.41
2:3S:224:TYR:HD1	2:3S:224:TYR:HA	1.80	0.41
2:3W:205:ASP:OD2	2:3W:304:ALA:N	2.35	0.41
2:3X:10:GLY:HA2	2:3X:145:THR:HB	2.02	0.41
2:3X:387:LEU:HD12	2:3X:390:ARG:HH22	1.86	0.41
2:3Y:172:VAL:HG11	2:3Y:387:LEU:HD21	2.03	0.41
1:4B:334:THR:O	1:4B:337:THR:OG1	2.32	0.41
1:4D:185:TYR:HB3	1:4D:408:TYR:HE2	1.86	0.41
1:4D:334:THR:O	1:4D:337:THR:OG1	2.32	0.41
1:4E:62:VAL:HA	1:4E:63:PRO:HD3	1.89	0.41
1:4E:334:THR:O	1:4E:337:THR:OG1	2.32	0.41
1:4F:100:ALA:N	3:4F:501:GTP:O2G	2.53	0.41
1:4J:185:TYR:HB3	1:4J:408:TYR:HE2	1.86	0.41
1:4K:185:TYR:HB3	1:4K:408:TYR:HE2	1.86	0.41
1:4K:280:LYS:NZ	1:4L:90:GLU:OE2	2.38	0.41
2:4Q:387:LEU:HD12	2:4Q:390:ARG:HH22	1.85	0.41
2:4S:384:ILE:H	2:4S:384:ILE:HG13	1.79	0.41
2:4W:172:VAL:HG11	2:4W:387:LEU:HD21	2.03	0.41
2:4X:10:GLY:HA2	2:4X:145:THR:HB	2.02	0.41
1:1A:185:TYR:HB3	1:1A:408:TYR:HE2	1.86	0.41
1:1B:2:ARG:HG2	2:4O:72:PRO:CD	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:336:LYS:HD3	2:4O:176:LYS:O	2.21	0.41
1:1C:185:TYR:HB3	1:1C:408:TYR:HE2	1.86	0.41
1:1E:326:LYS:CB	2:4R:210:TYR:CD1	3.04	0.41
1:1F:254:GLU:HG2	2:4S:100:GLY:CA	2.50	0.41
1:1I:324:VAL:CG1	2:4U:222:PRO:C	2.89	0.41
1:1M:258:ASN:OD1	2:4Y:101:ASN:CB	2.69	0.41
2:1R:100:GLY:HA3	1:2E:253:THR:CG2	2.50	0.41
2:1S:384:ILE:H	2:1S:384:ILE:HG13	1.79	0.41
2:1V:176:LYS:HZ1	1:2J:333:ALA:HB1	1.86	0.41
2:1V:224:TYR:HD1	2:1V:224:TYR:HA	1.80	0.41
2:1Y:10:GLY:HA2	2:1Y:145:THR:HB	2.02	0.41
2:1Y:172:VAL:HG11	2:1Y:387:LEU:HD21	2.03	0.41
2:1Y:401:ARG:HB2	1:2M:262:TYR:OH	2.16	0.41
2:1Z:387:LEU:HD12	2:1Z:390:ARG:HH22	1.86	0.41
1:2B:228:ASN:OD1	3:2B:501:GTP:N1	2.46	0.41
1:2C:334:THR:O	1:2C:337:THR:OG1	2.32	0.41
1:2D:185:TYR:HB3	1:2D:408:TYR:HE2	1.86	0.41
1:2D:334:THR:O	1:2D:337:THR:OG1	2.32	0.41
2:2H:224:TYR:CD2	1:3A:247:ALA:HB1	2.56	0.41
2:2S:71:GLU:HB2	1:3F:2:ARG:HD3	2.03	0.41
2:2S:210:TYR:CD2	1:3F:329:ASN:CB	3.03	0.41
2:2W:172:VAL:HG11	2:2W:387:LEU:HD21	2.03	0.41
2:2W:384:ILE:H	2:2W:384:ILE:HG13	1.79	0.41
2:2X:387:LEU:HD12	2:2X:390:ARG:HH22	1.86	0.41
2:2Y:172:VAL:HG11	2:2Y:387:LEU:HD21	2.03	0.41
2:2Z:394:GLN:OE1	1:3N:349:THR:HG23	2.21	0.41
1:3B:228:ASN:OD1	3:3B:501:GTP:N1	2.46	0.41
1:3C:185:TYR:HB3	1:3C:408:TYR:HE2	1.86	0.41
1:3C:280:LYS:NZ	1:3D:90:GLU:OE2	2.38	0.41
1:3E:334:THR:O	1:3E:337:THR:OG1	2.32	0.41
1:3F:185:TYR:HB3	1:3F:408:TYR:HE2	1.86	0.41
2:3Z:387:LEU:HD12	2:3Z:390:ARG:HH22	1.85	0.41
1:4A:185:TYR:HB3	1:4A:408:TYR:HE2	1.86	0.41
1:4C:399:TYR:OH	1:4C:415:GLU:OE2	2.25	0.41
1:4N:151:SER:HG	1:4N:190:THR:HG1	1.68	0.41
2:4W:384:ILE:H	2:4W:384:ILE:HG13	1.79	0.41
2:4Y:172:VAL:HG11	2:4Y:387:LEU:HD21	2.03	0.41
1:1B:325:PRO:O	2:4O:210:TYR:OH	2.39	0.40
1:1E:334:THR:O	1:1E:337:THR:OG1	2.32	0.40
1:1F:325:PRO:CB	2:4S:224:TYR:CD1	3.03	0.40
1:1G:254:GLU:HG2	2:4T:100:GLY:C	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1L:332:ILE:HB	2:4X:177:VAL:HG21	2.03	0.40
2:1H:10:GLY:HA2	2:1H:145:THR:HB	2.02	0.40
2:1U:404:PHE:HE1	1:2I:260:VAL:N	2.19	0.40
2:1V:139:HIS:ND1	2:1V:140:SER:O	2.42	0.40
2:1V:181:VAL:CB	1:2J:258:ASN:C	2.90	0.40
2:1W:172:VAL:HG11	2:1W:387:LEU:HD21	2.03	0.40
2:1W:221:THR:C	1:2K:324:VAL:HG13	2.40	0.40
2:1W:384:ILE:H	2:1W:384:ILE:HG13	1.79	0.40
2:1X:214:PHE:CD2	1:2L:326:LYS:CE	2.93	0.40
1:2B:241:SER:OG	1:2B:250:VAL:O	2.25	0.40
1:2F:185:TYR:HB3	1:2F:408:TYR:HE2	1.86	0.40
2:2H:406:HIS:ND1	1:3A:263:PRO:HB3	2.36	0.40
2:2P:394:GLN:CD	1:3C:349:THR:HG23	2.42	0.40
2:2P:404:PHE:CE1	1:3C:260:VAL:N	2.86	0.40
2:2R:101:ASN:C	1:3E:257:THR:HG21	2.39	0.40
2:2T:404:PHE:CE2	1:3G:346:TRP:CH2	3.09	0.40
2:2U:210:TYR:CD2	1:3I:329:ASN:CB	3.04	0.40
2:2V:404:PHE:CE1	1:3J:261:PRO:HD3	2.56	0.40
2:2W:205:ASP:OD2	2:2W:304:ALA:N	2.36	0.40
2:2W:398:MET:HG2	1:3K:346:TRP:O	2.20	0.40
2:2Z:10:GLY:HA2	2:2Z:145:THR:HB	2.02	0.40
1:3B:241:SER:OG	1:3B:250:VAL:O	2.25	0.40
2:3S:384:ILE:H	2:3S:384:ILE:HG13	1.79	0.40
2:3V:224:TYR:HD1	2:3V:224:TYR:HA	1.80	0.40
1:4C:185:TYR:HB3	1:4C:408:TYR:HE2	1.86	0.40
1:4F:185:TYR:HB3	1:4F:408:TYR:HE2	1.86	0.40
2:4S:224:TYR:HD1	2:4S:224:TYR:HA	1.80	0.40
2:4V:387:LEU:HD12	2:4V:390:ARG:HH22	1.85	0.40
2:4X:12:CYS:HG	2:4X:140:SER:HG	1.69	0.40
2:4X:387:LEU:HD12	2:4X:390:ARG:HH22	1.86	0.40
2:4Z:387:LEU:HD12	2:4Z:390:ARG:HH22	1.85	0.40
1:1D:185:TYR:HB3	1:1D:408:TYR:HE2	1.86	0.40
1:1D:349:THR:HG21	2:4Q:184:PRO:HD3	2.03	0.40
1:1G:256:GLN:O	2:4T:407:TRP:CE2	2.74	0.40
1:1J:349:THR:HG21	2:4V:184:PRO:HG3	2.04	0.40
1:1K:347:CYS:HA	2:4W:398:MET:HG2	2.02	0.40
2:1H:387:LEU:HD12	2:1H:390:ARG:HH22	1.85	0.40
2:1P:10:GLY:HA2	2:1P:145:THR:HB	2.02	0.40
2:1P:185:TYR:HB3	2:1P:408:TYR:HE2	1.87	0.40
2:1P:387:LEU:HD12	2:1P:390:ARG:HH22	1.85	0.40
2:1S:394:GLN:HG2	1:2F:348:PRO:CG	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1U:214:PHE:HD1	1:2I:326:LYS:CE	2.08	0.40
2:1X:406:HIS:HD2	1:2L:263:PRO:HD3	1.81	0.40
2:1Z:10:GLY:HA2	2:1Z:145:THR:HB	2.02	0.40
1:2B:334:THR:O	1:2B:337:THR:OG1	2.32	0.40
1:2C:185:TYR:HB3	1:2C:408:TYR:HE2	1.86	0.40
1:2I:141:PHE:HB2	1:2I:173:PRO:HD3	2.04	0.40
2:2H:10:GLY:HA2	2:2H:145:THR:HB	2.02	0.40
2:2H:73:GLY:HA3	1:3A:2:ARG:NH2	2.37	0.40
2:2O:178:SER:O	1:3B:351:PHE:C	2.59	0.40
2:2P:10:GLY:HA2	2:2P:145:THR:HB	2.02	0.40
2:2P:387:LEU:HD12	2:2P:390:ARG:HH22	1.85	0.40
2:2Q:398:MET:HA	1:3D:346:TRP:HB2	2.03	0.40
2:2R:404:PHE:CE1	1:3E:261:PRO:CD	3.04	0.40
2:2S:101:ASN:ND2	1:3F:258:ASN:ND2	2.68	0.40
2:2T:214:PHE:CD1	1:3G:326:LYS:CE	3.02	0.40
2:2V:387:LEU:HD12	2:2V:390:ARG:HH22	1.85	0.40
2:2Y:178:SER:CB	1:3M:349:THR:HB	2.50	0.40
2:2Z:387:LEU:HD12	2:2Z:390:ARG:HH22	1.86	0.40
1:3D:334:THR:O	1:3D:337:THR:OG1	2.32	0.40
1:3I:141:PHE:HB2	1:3I:173:PRO:HD3	2.04	0.40
2:3H:10:GLY:HA2	2:3H:145:THR:HB	2.02	0.40
2:3H:387:LEU:HD12	2:3H:390:ARG:HH22	1.85	0.40
2:3P:10:GLY:HA2	2:3P:145:THR:HB	2.02	0.40
2:3Q:185:TYR:HB3	2:3Q:408:TYR:HE2	1.87	0.40
2:3W:172:VAL:HG11	2:3W:387:LEU:HD21	2.03	0.40
2:3W:384:ILE:H	2:3W:384:ILE:HG13	1.79	0.40
2:3Y:10:GLY:HA2	2:3Y:145:THR:HB	2.02	0.40
1:4B:241:SER:OG	1:4B:250:VAL:O	2.25	0.40
1:4I:141:PHE:HB2	1:4I:173:PRO:HD3	2.04	0.40
1:4M:334:THR:O	1:4M:337:THR:OG1	2.32	0.40
2:4H:10:GLY:HA2	2:4H:145:THR:HB	2.02	0.40
2:4P:10:GLY:HA2	2:4P:145:THR:HB	2.02	0.40
2:4Y:10:GLY:HA2	2:4Y:145:THR:HB	2.02	0.40
1:1B:254:GLU:HA	2:4O:100:GLY:C	2.41	0.40
1:1C:247:ALA:O	2:4P:15:GLN:CD	2.59	0.40
1:1C:334:THR:O	1:1C:337:THR:OG1	2.32	0.40
1:1D:334:THR:O	1:1D:337:THR:OG1	2.32	0.40
1:1E:326:LYS:HG2	2:4R:210:TYR:CD1	2.56	0.40
1:1E:352:LYS:HA	2:4R:179:ASP:C	2.42	0.40
1:1F:185:TYR:HB3	1:1F:408:TYR:HE2	1.86	0.40
1:1I:141:PHE:HB2	1:1I:173:PRO:HD3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1I:346:TRP:CZ2	2:4U:403:ALA:CB	3.04	0.40
1:1J:326:LYS:HA	2:4V:210:TYR:CZ	2.55	0.40
1:1K:141:PHE:HB2	1:1K:173:PRO:HD3	2.04	0.40
1:1K:346:TRP:O	2:4W:398:MET:HG3	2.07	0.40
1:1L:141:PHE:HB2	1:1L:173:PRO:HD3	2.04	0.40
1:1M:262:TYR:CE2	2:4Y:403:ALA:HA	2.52	0.40
2:1O:100:GLY:HA3	1:2B:253:THR:HG21	2.03	0.40
2:1O:387:LEU:HD12	2:1O:390:ARG:HH22	1.85	0.40
2:1Q:185:TYR:HB3	2:1Q:408:TYR:HE2	1.87	0.40
2:1V:179:ASP:O	1:2J:352:LYS:HD3	2.17	0.40
2:1V:387:LEU:HD12	2:1V:390:ARG:HH22	1.86	0.40
2:1X:176:LYS:NZ	1:2L:333:ALA:CB	2.84	0.40
1:2K:141:PHE:HB2	1:2K:173:PRO:HD3	2.04	0.40
1:2N:151:SER:HG	1:2N:190:THR:HG1	1.68	0.40
2:2H:387:LEU:HD12	2:2H:390:ARG:HH22	1.85	0.40
2:2P:185:TYR:HB3	2:2P:408:TYR:HE2	1.87	0.40
2:2T:181:VAL:HB	1:3G:258:ASN:O	2.22	0.40
2:2V:224:TYR:HD1	2:2V:224:TYR:HA	1.80	0.40
2:2Y:10:GLY:HA2	2:2Y:145:THR:HB	2.02	0.40
1:3B:334:THR:O	1:3B:337:THR:OG1	2.32	0.40
1:3C:334:THR:O	1:3C:337:THR:OG1	2.32	0.40
1:3K:141:PHE:HB2	1:3K:173:PRO:HD3	2.04	0.40
1:3L:141:PHE:HB2	1:3L:173:PRO:HD3	2.04	0.40
2:3P:185:TYR:HB3	2:3P:408:TYR:HE2	1.87	0.40
2:3P:387:LEU:HD12	2:3P:390:ARG:HH22	1.85	0.40
2:3V:139:HIS:ND1	2:3V:140:SER:O	2.42	0.40
2:3V:387:LEU:HD12	2:3V:390:ARG:HH22	1.86	0.40
2:3Z:10:GLY:HA2	2:3Z:145:THR:HB	2.02	0.40
1:4B:185:TYR:HB3	1:4B:408:TYR:HE2	1.86	0.40
1:4B:228:ASN:OD1	3:4B:501:GTP:N1	2.46	0.40
1:4J:105:ARG:HA	1:4J:109:THR:HB	2.04	0.40
1:4K:141:PHE:HB2	1:4K:173:PRO:HD3	2.04	0.40
1:4M:141:PHE:HB2	1:4M:173:PRO:HD3	2.04	0.40
2:4H:387:LEU:HD12	2:4H:390:ARG:HH22	1.85	0.40
2:4P:139:HIS:ND1	2:4P:140:SER:O	2.42	0.40
2:4Q:139:HIS:ND1	2:4Q:140:SER:O	2.42	0.40
2:4Q:185:TYR:HB3	2:4Q:408:TYR:HE2	1.87	0.40
2:4T:165:ILE:H	2:4T:165:ILE:HG13	1.70	0.40
2:4V:224:TYR:HD1	2:4V:224:TYR:HA	1.80	0.40
2:4W:205:ASP:OD2	2:4W:304:ALA:N	2.36	0.40
2:4Z:10:GLY:HA2	2:4Z:145:THR:HB	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:334:THR:O	1:1B:337:THR:OG1	2.32	0.40
1:1C:2:ARG:CD	2:4P:72:PRO:HG2	2.51	0.40
1:1C:280:LYS:NZ	1:1D:90:GLU:OE2	2.38	0.40
1:1D:314:ALA:HB2	2:4Q:404:PHE:HZ	1.84	0.40
1:1E:349:THR:O	2:4R:181:VAL:HA	2.22	0.40
1:1F:349:THR:HG23	2:4S:394:GLN:OE1	2.21	0.40
1:1G:260:VAL:CG1	2:4T:406:HIS:HE1	2.27	0.40
1:1I:347:CYS:HA	2:4U:398:MET:CG	2.49	0.40
1:1J:352:LYS:HD3	2:4V:101:ASN:HD21	1.85	0.40
1:1L:351:PHE:O	2:4X:180:THR:HA	2.20	0.40
1:1M:141:PHE:HB2	1:1M:173:PRO:HD3	2.04	0.40
1:1M:325:PRO:CD	2:4Y:223:THR:HA	2.37	0.40
1:1M:353:VAL:CB	2:4Y:179:ASP:OD1	2.67	0.40
1:1N:185:TYR:HB3	1:1N:408:TYR:HE2	1.86	0.40
1:1N:253:THR:HB	2:4Z:100:GLY:HA2	2.04	0.40
2:1O:403:ALA:HB2	1:2B:262:TYR:OH	2.21	0.40
2:1Q:404:PHE:CE1	1:2D:260:VAL:C	2.95	0.40
2:1W:185:TYR:HB3	2:1W:408:TYR:HE2	1.87	0.40
2:1X:185:TYR:HB3	2:1X:408:TYR:HE2	1.87	0.40
1:2L:141:PHE:HB2	1:2L:173:PRO:HD3	2.04	0.40
1:2M:141:PHE:HB2	1:2M:173:PRO:HD3	2.04	0.40
1:2M:185:TYR:HB3	1:2M:408:TYR:HE2	1.86	0.40
2:2H:172:VAL:HG11	2:2H:387:LEU:HD21	2.03	0.40
2:2O:181:VAL:H	1:3B:258:ASN:HD22	1.66	0.40
2:2P:72:PRO:CD	1:3C:2:ARG:HG3	2.51	0.40
2:2Q:185:TYR:HB3	2:2Q:408:TYR:HE2	1.87	0.40
2:2V:139:HIS:ND1	2:2V:140:SER:O	2.42	0.40
2:2W:182:VAL:HG21	1:3K:257:THR:HG22	2.04	0.40
1:3B:132:LEU:HD23	1:3B:164:LYS:HZ3	1.85	0.40
1:3M:185:TYR:HB3	1:3M:408:TYR:HE2	1.86	0.40
1:3N:185:TYR:HB3	1:3N:408:TYR:HE2	1.86	0.40
2:3O:387:LEU:HD12	2:3O:390:ARG:HH22	1.85	0.40
2:3X:185:TYR:HB3	2:3X:408:TYR:HE2	1.87	0.40
2:4P:185:TYR:HB3	2:4P:408:TYR:HE2	1.87	0.40
2:4P:387:LEU:HD12	2:4P:390:ARG:HH22	1.86	0.40
2:4V:139:HIS:ND1	2:4V:140:SER:O	2.42	0.40
2:4X:185:TYR:HB3	2:4X:408:TYR:HE2	1.87	0.40
2:4X:384:ILE:H	2:4X:384:ILE:HG13	1.79	0.40
1:1A:329:ASN:HB2	2:4H:210:TYR:CD2	2.52	0.40
1:1B:132:LEU:HD23	1:1B:164:LYS:HZ3	1.85	0.40
1:1B:185:TYR:HB3	1:1B:408:TYR:HE2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1F:261:PRO:O	2:4S:404:PHE:CA	2.69	0.40
1:1I:254:GLU:CA	2:4U:100:GLY:HA2	2.51	0.40
1:1I:329:ASN:HB3	2:4U:210:TYR:CD2	2.57	0.40
1:1I:346:TRP:CZ3	2:4U:404:PHE:HE2	2.30	0.40
1:1J:314:ALA:HB2	2:4V:404:PHE:CZ	2.57	0.40
2:1H:401:ARG:NH2	1:2A:435:VAL:HA	2.37	0.40
2:1O:10:GLY:HA2	2:1O:145:THR:HB	2.02	0.40
2:1V:180:THR:HG23	1:2J:258:ASN:ND2	2.27	0.40
1:2B:132:LEU:HD23	1:2B:164:LYS:HZ3	1.85	0.40
1:2B:185:TYR:HB3	1:2B:408:TYR:HE2	1.86	0.40
1:2I:105:ARG:HA	1:2I:109:THR:HB	2.04	0.40
1:2J:141:PHE:HB2	1:2J:173:PRO:HD3	2.04	0.40
1:2N:185:TYR:HB3	1:2N:408:TYR:HE2	1.86	0.40
2:2O:11:GLN:NE2	1:3B:249:ASN:ND2	2.70	0.40
2:2O:387:LEU:HD12	2:2O:390:ARG:HH22	1.86	0.40
2:2P:139:HIS:ND1	2:2P:140:SER:O	2.42	0.40
2:2Q:139:HIS:ND1	2:2Q:140:SER:O	2.42	0.40
2:2R:185:TYR:HB3	2:2R:408:TYR:HE2	1.87	0.40
2:2R:404:PHE:CG	1:3E:261:PRO:CB	3.05	0.40
2:2S:178:SER:CB	1:3F:349:THR:HA	2.51	0.40
2:2W:185:TYR:HB3	2:2W:408:TYR:HE2	1.87	0.40
2:2W:404:PHE:HA	1:3K:261:PRO:HA	2.03	0.40
2:2X:185:TYR:HB3	2:2X:408:TYR:HE2	1.87	0.40
2:2X:384:ILE:H	2:2X:384:ILE:HG13	1.79	0.40
1:3B:185:TYR:HB3	1:3B:408:TYR:HE2	1.86	0.40
1:3F:141:PHE:HB2	1:3F:173:PRO:HD3	2.04	0.40
1:3I:105:ARG:HA	1:3I:109:THR:HB	2.04	0.40
1:3M:141:PHE:HB2	1:3M:173:PRO:HD3	2.04	0.40
1:3N:151:SER:HG	1:3N:190:THR:HG1	1.68	0.40
2:3O:10:GLY:HA2	2:3O:145:THR:HB	2.02	0.40
2:3O:185:TYR:HB3	2:3O:408:TYR:HE2	1.87	0.40
2:3P:139:HIS:ND1	2:3P:140:SER:O	2.42	0.40
2:3W:185:TYR:HB3	2:3W:408:TYR:HE2	1.87	0.40
2:3X:384:ILE:H	2:3X:384:ILE:HG13	1.79	0.40
2:3Y:185:TYR:HB3	2:3Y:408:TYR:HE2	1.87	0.40
1:4A:334:THR:O	1:4A:337:THR:OG1	2.32	0.40
1:4G:105:ARG:HA	1:4G:109:THR:HB	2.04	0.40
1:4I:105:ARG:HA	1:4I:109:THR:HB	2.04	0.40
1:4L:141:PHE:HB2	1:4L:173:PRO:HD3	2.04	0.40
1:4N:185:TYR:HB3	1:4N:408:TYR:HE2	1.86	0.40
2:4H:172:VAL:HG11	2:4H:387:LEU:HD21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4O:387:LEU:HD12	2:4O:390:ARG:HH22	1.85	0.40
2:4Y:185:TYR:HB3	2:4Y:408:TYR:HE2	1.87	0.40
2:4Z:185:TYR:HB3	2:4Z:408:TYR:HE2	1.87	0.40

There are no symmetry-related clashes.

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 PDB entries followed by that with respect to all EM entries.

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	
1	1A	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	1B	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	1C	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	1D	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	1E	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	1F	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	1G	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	1I	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	1J	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	1K	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	1L	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	1M	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	1N	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	2A	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	2B	430/451 (95%)	414 (96%)	16 (4%)	0	100	100
1	2C	430/451 (95%)	414 (96%)	16 (4%)	0	100	100
1	2D	430/451 (95%)	413 (96%)	17 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	2E	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	2F	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	2G	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	2I	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	2J	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	2K	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	2L	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	2M	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	2N	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3A	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3B	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3C	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3D	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3E	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3F	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3G	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3I	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3J	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3K	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3L	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3M	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	3N	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	4A	430/451 (95%)	414 (96%)	16 (4%)	0	100	100
1	4B	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	4C	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	4D	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	4E	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	4F	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	4G	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	4I	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	4J	430/451 (95%)	413 (96%)	17 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	4K	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	4L	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	4M	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
1	4N	430/451 (95%)	413 (96%)	17 (4%)	0	100	100
2	1H	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	1O	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	1P	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	1Q	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	1R	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	1S	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	1T	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	1U	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	1V	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	1W	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	1X	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	1Y	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	1Z	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2H	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2O	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2P	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2Q	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2R	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2S	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2T	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2U	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2V	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2W	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2X	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2Y	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	2Z	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	3H	427/445 (96%)	409 (96%)	18 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	3O	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	3P	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	3Q	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	3R	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	3S	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	3T	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	3U	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	3V	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	3W	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	3X	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	3Y	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	3Z	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4H	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4O	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4P	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4Q	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4R	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4S	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4T	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4U	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4V	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4W	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4X	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4Y	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
2	4Z	427/445 (96%)	409 (96%)	18 (4%)	0	100	100
All	All	44564/46592 (96%)	42747 (96%)	1817 (4%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM

entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1A	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	1B	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	1C	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	1D	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	1E	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	1F	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	1G	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	1I	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	1J	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	1K	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	1L	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	1M	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	1N	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2A	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2B	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2C	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2D	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2E	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2F	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2G	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2I	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2J	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2K	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2L	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2M	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	2N	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	3A	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	3B	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	3C	366/379 (97%)	365 (100%)	1 (0%)	92	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	3D	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	3E	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	3F	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	3G	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	3I	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	3J	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	3K	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	3L	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	3M	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	3N	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4A	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4B	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4C	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4D	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4E	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4F	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4G	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4I	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4J	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4K	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4L	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4M	366/379 (97%)	365 (100%)	1 (0%)	92	95
1	4N	366/379 (97%)	365 (100%)	1 (0%)	92	95
2	1H	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	1O	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	1P	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	1Q	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	1R	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	1S	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	1T	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	1U	368/381 (97%)	367 (100%)	1 (0%)	92	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	1V	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	1W	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	1X	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	1Y	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	1Z	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2H	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2O	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2P	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2Q	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2R	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2S	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2T	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2U	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2V	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2W	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2X	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2Y	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	2Z	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3H	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3O	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3P	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3Q	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3R	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3S	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3T	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3U	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3V	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3W	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3X	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3Y	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	3Z	368/381 (97%)	367 (100%)	1 (0%)	92	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	4H	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	4O	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	4P	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	4Q	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	4R	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	4S	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	4T	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	4U	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	4V	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	4W	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	4X	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	4Y	368/381 (97%)	367 (100%)	1 (0%)	92	95
2	4Z	368/381 (97%)	367 (100%)	1 (0%)	92	95
All	All	38168/39520 (97%)	38064 (100%)	104 (0%)	92	95

All (104) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	1A	339	ARG
1	1B	339	ARG
1	1C	339	ARG
1	1D	339	ARG
1	1E	339	ARG
1	1F	339	ARG
1	1G	339	ARG
1	1I	339	ARG
1	1J	339	ARG
1	1K	339	ARG
1	1L	339	ARG
1	1M	339	ARG
1	1N	339	ARG
2	1H	300	ASN
2	1O	300	ASN
2	1P	300	ASN
2	1Q	300	ASN
2	1R	300	ASN
2	1S	300	ASN

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Mol	Chain	Res	Type
2	1T	300	ASN
2	1U	300	ASN
2	1V	300	ASN
2	1W	300	ASN
2	1X	300	ASN
2	1Y	300	ASN
2	1Z	300	ASN
1	2A	339	ARG
1	2B	339	ARG
1	2C	339	ARG
1	2D	339	ARG
1	2E	339	ARG
1	2F	339	ARG
1	2G	339	ARG
1	2I	339	ARG
1	2J	339	ARG
1	2K	339	ARG
1	2L	339	ARG
1	2M	339	ARG
1	2N	339	ARG
2	2H	300	ASN
2	2O	300	ASN
2	2P	300	ASN
2	2Q	300	ASN
2	2R	300	ASN
2	2S	300	ASN
2	2T	300	ASN
2	2U	300	ASN
2	2V	300	ASN
2	2W	300	ASN
2	2X	300	ASN
2	2Y	300	ASN
2	2Z	300	ASN
1	3A	339	ARG
1	3B	339	ARG
1	3C	339	ARG
1	3D	339	ARG
1	3E	339	ARG
1	3F	339	ARG
1	3G	339	ARG
1	3I	339	ARG
1	3J	339	ARG

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Mol	Chain	Res	Type
1	3K	339	ARG
1	3L	339	ARG
1	3M	339	ARG
1	3N	339	ARG
2	3H	300	ASN
2	3O	300	ASN
2	3P	300	ASN
2	3Q	300	ASN
2	3R	300	ASN
2	3S	300	ASN
2	3T	300	ASN
2	3U	300	ASN
2	3V	300	ASN
2	3W	300	ASN
2	3X	300	ASN
2	3Y	300	ASN
2	3Z	300	ASN
1	4A	339	ARG
1	4B	339	ARG
1	4C	339	ARG
1	4D	339	ARG
1	4E	339	ARG
1	4F	339	ARG
1	4G	339	ARG
1	4I	339	ARG
1	4J	339	ARG
1	4K	339	ARG
1	4L	339	ARG
1	4M	339	ARG
1	4N	339	ARG
2	4H	300	ASN
2	4O	300	ASN
2	4P	300	ASN
2	4Q	300	ASN
2	4R	300	ASN
2	4S	300	ASN
2	4T	300	ASN
2	4U	300	ASN
2	4V	300	ASN
2	4W	300	ASN
2	4X	300	ASN
2	4Y	300	ASN

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Mol	Chain	Res	Type
2	4Z	300	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (794) such sidechains are listed below:

Mol	Chain	Res	Type
1	1A	8	HIS
1	1A	15	GLN
1	1A	88	HIS
1	1A	107	HIS
1	1A	216	ASN
1	1B	8	HIS
1	1B	15	GLN
1	1B	88	HIS
1	1B	107	HIS
1	1B	216	ASN
1	1C	8	HIS
1	1C	15	GLN
1	1C	88	HIS
1	1C	107	HIS
1	1C	216	ASN
1	1D	8	HIS
1	1D	15	GLN
1	1D	88	HIS
1	1D	107	HIS
1	1D	216	ASN
1	1D	256	GLN
1	1E	8	HIS
1	1E	15	GLN
1	1E	88	HIS
1	1E	107	HIS
1	1E	186	ASN
1	1E	216	ASN
1	1E	256	GLN
1	1F	8	HIS
1	1F	15	GLN
1	1F	88	HIS
1	1F	107	HIS
1	1F	216	ASN
1	1F	256	GLN
1	1G	8	HIS
1	1G	15	GLN
1	1G	88	HIS

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Mol	Chain	Res	Type
1	1G	107	HIS
1	1G	216	ASN
1	1I	8	HIS
1	1I	15	GLN
1	1I	88	HIS
1	1I	107	HIS
1	1I	216	ASN
1	1J	8	HIS
1	1J	15	GLN
1	1J	88	HIS
1	1J	107	HIS
1	1J	186	ASN
1	1J	216	ASN
1	1K	8	HIS
1	1K	15	GLN
1	1K	88	HIS
1	1K	107	HIS
1	1K	186	ASN
1	1K	216	ASN
1	1L	8	HIS
1	1L	15	GLN
1	1L	88	HIS
1	1L	107	HIS
1	1L	186	ASN
1	1L	216	ASN
1	1M	8	HIS
1	1M	15	GLN
1	1M	88	HIS
1	1M	107	HIS
1	1M	216	ASN
1	1N	8	HIS
1	1N	15	GLN
1	1N	88	HIS
1	1N	107	HIS
1	1N	216	ASN
1	1N	258	ASN
2	1H	8	GLN
2	1H	11	GLN
2	1H	101	ASN
2	1H	192	HIS
2	1H	206	ASN
2	1H	228	ASN

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Mol	Chain	Res	Type
2	1H	300	ASN
2	1H	309	HIS
2	1H	336	GLN
2	1H	406	HIS
2	1O	8	GLN
2	1O	11	GLN
2	1O	101	ASN
2	1O	192	HIS
2	1O	206	ASN
2	1O	228	ASN
2	1O	294	GLN
2	1O	300	ASN
2	1O	309	HIS
2	1O	336	GLN
2	1O	406	HIS
2	1P	8	GLN
2	1P	11	GLN
2	1P	101	ASN
2	1P	192	HIS
2	1P	206	ASN
2	1P	228	ASN
2	1P	294	GLN
2	1P	300	ASN
2	1P	309	HIS
2	1P	336	GLN
2	1P	406	HIS
2	1Q	8	GLN
2	1Q	11	GLN
2	1Q	101	ASN
2	1Q	192	HIS
2	1Q	206	ASN
2	1Q	228	ASN
2	1Q	300	ASN
2	1Q	309	HIS
2	1Q	336	GLN
2	1Q	406	HIS
2	1R	8	GLN
2	1R	11	GLN
2	1R	101	ASN
2	1R	192	HIS
2	1R	206	ASN
2	1R	228	ASN

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Mol	Chain	Res	Type
2	1R	294	GLN
2	1R	300	ASN
2	1R	309	HIS
2	1R	336	GLN
2	1R	406	HIS
2	1S	8	GLN
2	1S	11	GLN
2	1S	101	ASN
2	1S	192	HIS
2	1S	206	ASN
2	1S	228	ASN
2	1S	300	ASN
2	1S	309	HIS
2	1S	336	GLN
2	1S	406	HIS
2	1T	8	GLN
2	1T	11	GLN
2	1T	101	ASN
2	1T	192	HIS
2	1T	206	ASN
2	1T	228	ASN
2	1T	300	ASN
2	1T	309	HIS
2	1T	336	GLN
2	1T	406	HIS
2	1U	8	GLN
2	1U	11	GLN
2	1U	101	ASN
2	1U	192	HIS
2	1U	206	ASN
2	1U	228	ASN
2	1U	300	ASN
2	1U	309	HIS
2	1U	336	GLN
2	1V	8	GLN
2	1V	11	GLN
2	1V	101	ASN
2	1V	192	HIS
2	1V	206	ASN
2	1V	228	ASN
2	1V	300	ASN
2	1V	309	HIS

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Mol	Chain	Res	Type
2	1V	336	GLN
2	1W	8	GLN
2	1W	11	GLN
2	1W	192	HIS
2	1W	206	ASN
2	1W	228	ASN
2	1W	300	ASN
2	1W	309	HIS
2	1W	336	GLN
2	1X	8	GLN
2	1X	11	GLN
2	1X	192	HIS
2	1X	206	ASN
2	1X	228	ASN
2	1X	300	ASN
2	1X	309	HIS
2	1X	336	GLN
2	1X	406	HIS
2	1Y	8	GLN
2	1Y	11	GLN
2	1Y	192	HIS
2	1Y	206	ASN
2	1Y	228	ASN
2	1Y	300	ASN
2	1Y	309	HIS
2	1Y	336	GLN
2	1Y	406	HIS
2	1Z	8	GLN
2	1Z	11	GLN
2	1Z	101	ASN
2	1Z	192	HIS
2	1Z	206	ASN
2	1Z	228	ASN
2	1Z	300	ASN
2	1Z	309	HIS
2	1Z	336	GLN
2	1Z	406	HIS
1	2A	8	HIS
1	2A	15	GLN
1	2A	88	HIS
1	2A	107	HIS
1	2A	216	ASN

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Mol	Chain	Res	Type
1	2A	258	ASN
1	2B	8	HIS
1	2B	15	GLN
1	2B	88	HIS
1	2B	107	HIS
1	2B	216	ASN
1	2B	258	ASN
1	2C	8	HIS
1	2C	15	GLN
1	2C	88	HIS
1	2C	107	HIS
1	2C	216	ASN
1	2C	258	ASN
1	2D	8	HIS
1	2D	15	GLN
1	2D	88	HIS
1	2D	107	HIS
1	2D	216	ASN
1	2D	258	ASN
1	2E	8	HIS
1	2E	15	GLN
1	2E	88	HIS
1	2E	107	HIS
1	2E	186	ASN
1	2E	216	ASN
1	2E	258	ASN
1	2F	8	HIS
1	2F	15	GLN
1	2F	88	HIS
1	2F	107	HIS
1	2F	216	ASN
1	2F	258	ASN
1	2G	8	HIS
1	2G	15	GLN
1	2G	88	HIS
1	2G	107	HIS
1	2G	216	ASN
1	2G	258	ASN
1	2I	8	HIS
1	2I	15	GLN
1	2I	88	HIS
1	2I	107	HIS

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Mol	Chain	Res	Type
1	2I	216	ASN
1	2I	258	ASN
1	2J	8	HIS
1	2J	15	GLN
1	2J	88	HIS
1	2J	107	HIS
1	2J	186	ASN
1	2J	216	ASN
1	2J	258	ASN
1	2J	329	ASN
1	2K	8	HIS
1	2K	15	GLN
1	2K	88	HIS
1	2K	107	HIS
1	2K	186	ASN
1	2K	216	ASN
1	2K	329	ASN
1	2L	8	HIS
1	2L	15	GLN
1	2L	88	HIS
1	2L	107	HIS
1	2L	186	ASN
1	2L	216	ASN
1	2L	329	ASN
1	2M	8	HIS
1	2M	15	GLN
1	2M	88	HIS
1	2M	107	HIS
1	2M	216	ASN
1	2M	329	ASN
1	2N	8	HIS
1	2N	15	GLN
1	2N	107	HIS
1	2N	216	ASN
1	2N	258	ASN
2	2H	8	GLN
2	2H	11	GLN
2	2H	15	GLN
2	2H	101	ASN
2	2H	192	HIS
2	2H	206	ASN
2	2H	228	ASN

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Mol	Chain	Res	Type
2	2H	300	ASN
2	2H	309	HIS
2	2H	336	GLN
2	2O	8	GLN
2	2O	11	GLN
2	2O	15	GLN
2	2O	101	ASN
2	2O	192	HIS
2	2O	206	ASN
2	2O	228	ASN
2	2O	294	GLN
2	2O	300	ASN
2	2O	309	HIS
2	2O	336	GLN
2	2P	8	GLN
2	2P	11	GLN
2	2P	15	GLN
2	2P	101	ASN
2	2P	192	HIS
2	2P	206	ASN
2	2P	228	ASN
2	2P	294	GLN
2	2P	300	ASN
2	2P	309	HIS
2	2P	336	GLN
2	2Q	8	GLN
2	2Q	11	GLN
2	2Q	15	GLN
2	2Q	101	ASN
2	2Q	192	HIS
2	2Q	206	ASN
2	2Q	228	ASN
2	2Q	294	GLN
2	2Q	300	ASN
2	2Q	309	HIS
2	2Q	336	GLN
2	2R	8	GLN
2	2R	11	GLN
2	2R	15	GLN
2	2R	101	ASN
2	2R	192	HIS
2	2R	206	ASN

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Mol	Chain	Res	Type
2	2R	228	ASN
2	2R	294	GLN
2	2R	300	ASN
2	2R	309	HIS
2	2R	336	GLN
2	2S	8	GLN
2	2S	11	GLN
2	2S	15	GLN
2	2S	101	ASN
2	2S	192	HIS
2	2S	206	ASN
2	2S	228	ASN
2	2S	300	ASN
2	2S	309	HIS
2	2S	336	GLN
2	2T	8	GLN
2	2T	11	GLN
2	2T	15	GLN
2	2T	101	ASN
2	2T	192	HIS
2	2T	206	ASN
2	2T	228	ASN
2	2T	300	ASN
2	2T	309	HIS
2	2T	336	GLN
2	2U	8	GLN
2	2U	11	GLN
2	2U	15	GLN
2	2U	101	ASN
2	2U	192	HIS
2	2U	206	ASN
2	2U	228	ASN
2	2U	300	ASN
2	2U	309	HIS
2	2U	336	GLN
2	2V	8	GLN
2	2V	11	GLN
2	2V	15	GLN
2	2V	101	ASN
2	2V	192	HIS
2	2V	206	ASN
2	2V	228	ASN

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Mol	Chain	Res	Type
2	2V	300	ASN
2	2V	309	HIS
2	2V	336	GLN
2	2W	8	GLN
2	2W	11	GLN
2	2W	101	ASN
2	2W	192	HIS
2	2W	206	ASN
2	2W	228	ASN
2	2W	300	ASN
2	2W	309	HIS
2	2W	336	GLN
2	2X	8	GLN
2	2X	11	GLN
2	2X	101	ASN
2	2X	192	HIS
2	2X	206	ASN
2	2X	228	ASN
2	2X	300	ASN
2	2X	309	HIS
2	2X	336	GLN
2	2Y	8	GLN
2	2Y	11	GLN
2	2Y	101	ASN
2	2Y	192	HIS
2	2Y	206	ASN
2	2Y	228	ASN
2	2Y	300	ASN
2	2Y	309	HIS
2	2Y	336	GLN
2	2Z	8	GLN
2	2Z	11	GLN
2	2Z	15	GLN
2	2Z	101	ASN
2	2Z	192	HIS
2	2Z	206	ASN
2	2Z	228	ASN
2	2Z	300	ASN
2	2Z	309	HIS
2	2Z	336	GLN
1	3A	8	HIS
1	3A	15	GLN

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Mol	Chain	Res	Type
1	3A	88	HIS
1	3A	107	HIS
1	3A	216	ASN
1	3A	258	ASN
1	3B	8	HIS
1	3B	15	GLN
1	3B	88	HIS
1	3B	107	HIS
1	3B	216	ASN
1	3B	258	ASN
1	3C	8	HIS
1	3C	15	GLN
1	3C	88	HIS
1	3C	107	HIS
1	3C	216	ASN
1	3C	258	ASN
1	3D	8	HIS
1	3D	15	GLN
1	3D	88	HIS
1	3D	107	HIS
1	3D	216	ASN
1	3D	258	ASN
1	3E	8	HIS
1	3E	15	GLN
1	3E	88	HIS
1	3E	107	HIS
1	3E	186	ASN
1	3E	216	ASN
1	3E	258	ASN
1	3F	8	HIS
1	3F	15	GLN
1	3F	88	HIS
1	3F	107	HIS
1	3F	216	ASN
1	3F	258	ASN
1	3G	8	HIS
1	3G	15	GLN
1	3G	88	HIS
1	3G	107	HIS
1	3G	216	ASN
1	3G	258	ASN
1	3I	8	HIS

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Mol	Chain	Res	Type
1	3I	15	GLN
1	3I	88	HIS
1	3I	107	HIS
1	3I	216	ASN
1	3I	258	ASN
1	3J	8	HIS
1	3J	15	GLN
1	3J	88	HIS
1	3J	107	HIS
1	3J	186	ASN
1	3J	216	ASN
1	3J	258	ASN
1	3K	8	HIS
1	3K	15	GLN
1	3K	88	HIS
1	3K	107	HIS
1	3K	186	ASN
1	3K	216	ASN
1	3K	258	ASN
1	3L	8	HIS
1	3L	15	GLN
1	3L	88	HIS
1	3L	107	HIS
1	3L	186	ASN
1	3L	216	ASN
1	3L	258	ASN
1	3M	8	HIS
1	3M	15	GLN
1	3M	88	HIS
1	3M	107	HIS
1	3M	186	ASN
1	3M	216	ASN
1	3M	258	ASN
1	3N	8	HIS
1	3N	15	GLN
1	3N	107	HIS
1	3N	216	ASN
1	3N	258	ASN
2	3H	8	GLN
2	3H	15	GLN
2	3H	192	HIS
2	3H	206	ASN

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Mol	Chain	Res	Type
2	3H	228	ASN
2	3H	300	ASN
2	3H	309	HIS
2	3H	336	GLN
2	3O	8	GLN
2	3O	15	GLN
2	3O	192	HIS
2	3O	206	ASN
2	3O	228	ASN
2	3O	294	GLN
2	3O	300	ASN
2	3O	309	HIS
2	3O	336	GLN
2	3P	8	GLN
2	3P	15	GLN
2	3P	192	HIS
2	3P	206	ASN
2	3P	228	ASN
2	3P	294	GLN
2	3P	300	ASN
2	3P	309	HIS
2	3P	336	GLN
2	3Q	8	GLN
2	3Q	15	GLN
2	3Q	192	HIS
2	3Q	206	ASN
2	3Q	228	ASN
2	3Q	294	GLN
2	3Q	300	ASN
2	3Q	309	HIS
2	3Q	336	GLN
2	3R	8	GLN
2	3R	15	GLN
2	3R	192	HIS
2	3R	206	ASN
2	3R	228	ASN
2	3R	294	GLN
2	3R	300	ASN
2	3R	309	HIS
2	3R	336	GLN
2	3S	8	GLN
2	3S	15	GLN

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Mol	Chain	Res	Type
2	3S	192	HIS
2	3S	206	ASN
2	3S	228	ASN
2	3S	300	ASN
2	3S	309	HIS
2	3S	336	GLN
2	3T	8	GLN
2	3T	15	GLN
2	3T	192	HIS
2	3T	206	ASN
2	3T	228	ASN
2	3T	300	ASN
2	3T	309	HIS
2	3T	336	GLN
2	3U	8	GLN
2	3U	15	GLN
2	3U	192	HIS
2	3U	206	ASN
2	3U	228	ASN
2	3U	300	ASN
2	3U	309	HIS
2	3U	336	GLN
2	3V	8	GLN
2	3V	15	GLN
2	3V	192	HIS
2	3V	206	ASN
2	3V	228	ASN
2	3V	300	ASN
2	3V	309	HIS
2	3V	336	GLN
2	3W	8	GLN
2	3W	15	GLN
2	3W	192	HIS
2	3W	206	ASN
2	3W	228	ASN
2	3W	300	ASN
2	3W	309	HIS
2	3W	336	GLN
2	3X	8	GLN
2	3X	15	GLN
2	3X	192	HIS
2	3X	206	ASN

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Mol	Chain	Res	Type
2	3X	228	ASN
2	3X	300	ASN
2	3X	309	HIS
2	3X	336	GLN
2	3Y	8	GLN
2	3Y	15	GLN
2	3Y	192	HIS
2	3Y	206	ASN
2	3Y	228	ASN
2	3Y	300	ASN
2	3Y	309	HIS
2	3Y	336	GLN
2	3Z	8	GLN
2	3Z	15	GLN
2	3Z	192	HIS
2	3Z	206	ASN
2	3Z	228	ASN
2	3Z	300	ASN
2	3Z	309	HIS
2	3Z	336	GLN
1	4A	8	HIS
1	4A	15	GLN
1	4A	88	HIS
1	4A	107	HIS
1	4A	216	ASN
1	4B	8	HIS
1	4B	15	GLN
1	4B	88	HIS
1	4B	107	HIS
1	4B	216	ASN
1	4C	8	HIS
1	4C	15	GLN
1	4C	88	HIS
1	4C	107	HIS
1	4C	216	ASN
1	4D	8	HIS
1	4D	15	GLN
1	4D	88	HIS
1	4D	107	HIS
1	4D	216	ASN
1	4E	8	HIS
1	4E	15	GLN

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Mol	Chain	Res	Type
1	4E	88	HIS
1	4E	107	HIS
1	4E	216	ASN
1	4F	8	HIS
1	4F	15	GLN
1	4F	88	HIS
1	4F	107	HIS
1	4F	186	ASN
1	4F	216	ASN
1	4G	8	HIS
1	4G	15	GLN
1	4G	88	HIS
1	4G	107	HIS
1	4G	216	ASN
1	4I	8	HIS
1	4I	15	GLN
1	4I	88	HIS
1	4I	107	HIS
1	4I	216	ASN
1	4J	8	HIS
1	4J	15	GLN
1	4J	88	HIS
1	4J	107	HIS
1	4J	186	ASN
1	4J	216	ASN
1	4K	8	HIS
1	4K	15	GLN
1	4K	88	HIS
1	4K	107	HIS
1	4K	186	ASN
1	4K	216	ASN
1	4L	8	HIS
1	4L	15	GLN
1	4L	88	HIS
1	4L	107	HIS
1	4L	186	ASN
1	4L	216	ASN
1	4M	8	HIS
1	4M	15	GLN
1	4M	88	HIS
1	4M	107	HIS
1	4M	186	ASN

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Mol	Chain	Res	Type
1	4M	216	ASN
1	4N	8	HIS
1	4N	15	GLN
1	4N	107	HIS
1	4N	186	ASN
1	4N	216	ASN
2	4H	8	GLN
2	4H	11	GLN
2	4H	192	HIS
2	4H	206	ASN
2	4H	228	ASN
2	4H	300	ASN
2	4H	309	HIS
2	4H	336	GLN
2	4O	8	GLN
2	4O	11	GLN
2	4O	15	GLN
2	4O	192	HIS
2	4O	206	ASN
2	4O	228	ASN
2	4O	300	ASN
2	4O	309	HIS
2	4O	336	GLN
2	4P	8	GLN
2	4P	11	GLN
2	4P	15	GLN
2	4P	192	HIS
2	4P	206	ASN
2	4P	228	ASN
2	4P	294	GLN
2	4P	300	ASN
2	4P	309	HIS
2	4P	336	GLN
2	4Q	8	GLN
2	4Q	15	GLN
2	4Q	192	HIS
2	4Q	206	ASN
2	4Q	228	ASN
2	4Q	294	GLN
2	4Q	300	ASN
2	4Q	309	HIS
2	4Q	336	GLN

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Mol	Chain	Res	Type
2	4R	8	GLN
2	4R	11	GLN
2	4R	15	GLN
2	4R	192	HIS
2	4R	206	ASN
2	4R	228	ASN
2	4R	294	GLN
2	4R	300	ASN
2	4R	309	HIS
2	4R	336	GLN
2	4S	8	GLN
2	4S	11	GLN
2	4S	15	GLN
2	4S	192	HIS
2	4S	206	ASN
2	4S	228	ASN
2	4S	300	ASN
2	4S	309	HIS
2	4S	336	GLN
2	4T	8	GLN
2	4T	11	GLN
2	4T	15	GLN
2	4T	101	ASN
2	4T	192	HIS
2	4T	206	ASN
2	4T	228	ASN
2	4T	300	ASN
2	4T	309	HIS
2	4T	336	GLN
2	4U	8	GLN
2	4U	11	GLN
2	4U	15	GLN
2	4U	101	ASN
2	4U	192	HIS
2	4U	206	ASN
2	4U	228	ASN
2	4U	294	GLN
2	4U	300	ASN
2	4U	309	HIS
2	4U	336	GLN
2	4V	8	GLN
2	4V	11	GLN

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Mol	Chain	Res	Type
2	4V	101	ASN
2	4V	192	HIS
2	4V	206	ASN
2	4V	228	ASN
2	4V	300	ASN
2	4V	309	HIS
2	4V	336	GLN
2	4W	8	GLN
2	4W	11	GLN
2	4W	101	ASN
2	4W	192	HIS
2	4W	206	ASN
2	4W	228	ASN
2	4W	300	ASN
2	4W	309	HIS
2	4W	336	GLN
2	4X	8	GLN
2	4X	11	GLN
2	4X	101	ASN
2	4X	192	HIS
2	4X	206	ASN
2	4X	228	ASN
2	4X	300	ASN
2	4X	309	HIS
2	4X	336	GLN
2	4Y	8	GLN
2	4Y	11	GLN
2	4Y	101	ASN
2	4Y	192	HIS
2	4Y	206	ASN
2	4Y	228	ASN
2	4Y	300	ASN
2	4Y	309	HIS
2	4Y	336	GLN
2	4Z	8	GLN
2	4Z	11	GLN
2	4Z	101	ASN
2	4Z	192	HIS
2	4Z	206	ASN
2	4Z	228	ASN
2	4Z	300	ASN
2	4Z	309	HIS

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Mol	Chain	Res	Type
2	4Z	336	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 156 ligands modelled in this entry, 52 are monoatomic - leaving 104 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	$\#\|Z\| > 2$
5	GDP	3X	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	1R	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	2I	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	6 (18%)
5	GDP	2S	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	4J	501	4	26,34,34	1.21	1 (3%)	32,54,54	1.65	6 (18%)
3	GTP	2M	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.66	7 (21%)
5	GDP	4X	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	1X	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	2T	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	2A	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	GTP	2C	501	4	26,34,34	1.19	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	4D	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.66	7 (21%)
3	GTP	2D	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	6 (18%)
5	GDP	1V	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	3C	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	6 (18%)
5	GDP	2O	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	4L	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	6 (18%)
5	GDP	3P	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	4E	501	4	26,34,34	1.19	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	3M	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	1N	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
5	GDP	3W	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	4W	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	4R	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	4U	501	-	24,30,30	1.01	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	3I	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.66	7 (21%)
5	GDP	1O	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.23	4 (13%)
5	GDP	1H	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	4Y	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	1U	501	-	24,30,30	1.01	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	1F	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	4F	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	3G	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	1K	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	4A	501	4	26,34,34	1.21	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	3E	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
5	GDP	2P	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	1S	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	4G	501	4	26,34,34	1.21	1 (3%)	32,54,54	1.66	6 (18%)
5	GDP	1Y	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	3T	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	2E	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	4C	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
5	GDP	2Y	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	1M	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
5	GDP	3V	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.23	4 (13%)
5	GDP	2X	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	3F	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	6 (18%)
3	GTP	3K	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
5	GDP	4P	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	3A	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	6 (18%)
3	GTP	3J	501	4	26,34,34	1.19	1 (3%)	32,54,54	1.66	7 (21%)
5	GDP	1Q	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	2U	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	3O	501	-	24,30,30	1.01	1 (4%)	30,47,47	1.23	4 (13%)
3	GTP	2F	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.66	7 (21%)
3	GTP	2G	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.66	6 (18%)
3	GTP	3L	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	1J	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	6 (18%)
5	GDP	2Z	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	3H	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	3U	501	-	24,30,30	1.01	1 (4%)	30,47,47	1.23	4 (13%)
3	GTP	4B	501	4	26,34,34	1.21	1 (3%)	32,54,54	1.65	6 (18%)
3	GTP	1A	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
5	GDP	4Q	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	2Q	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.23	4 (13%)
5	GDP	3Z	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	1G	501	4	26,34,34	1.21	1 (3%)	32,54,54	1.65	6 (18%)
3	GTP	3D	501	4	26,34,34	1.21	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	1C	501	4	26,34,34	1.19	1 (3%)	32,54,54	1.65	6 (18%)
5	GDP	1Z	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	1W	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	4Z	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	1B	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.66	7 (21%)
3	GTP	4I	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	4K	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	2J	501	4	26,34,34	1.21	1 (3%)	32,54,54	1.66	7 (21%)
5	GDP	3Q	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	2H	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	2B	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	6 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
5	GDP	4V	501	-	24,30,30	1.01	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	1T	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	4H	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	2W	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	3B	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	6 (18%)
5	GDP	2R	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.23	4 (13%)
5	GDP	3Y	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	3R	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	4N	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.66	7 (21%)
3	GTP	2K	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	4M	501	4	26,34,34	1.21	1 (3%)	32,54,54	1.65	6 (18%)
3	GTP	2L	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
3	GTP	1I	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	6 (18%)
5	GDP	4S	501	-	24,30,30	1.01	1 (4%)	30,47,47	1.23	4 (13%)
5	GDP	2V	501	-	24,30,30	1.02	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	1L	501	4	26,34,34	1.21	1 (3%)	32,54,54	1.65	6 (18%)
3	GTP	3N	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
5	GDP	4O	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	1E	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
5	GDP	1P	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
5	GDP	4T	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	1D	501	4	26,34,34	1.20	1 (3%)	32,54,54	1.65	7 (21%)
5	GDP	3S	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.22	4 (13%)
3	GTP	2N	501	4	26,34,34	1.21	1 (3%)	32,54,54	1.65	6 (18%)

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
5	GDP	3X	501	-	-	3/12/32/32	0/3/3/3
5	GDP	1R	501	-	-	3/12/32/32	0/3/3/3
3	GTP	2I	501	4	-	7/18/38/38	0/3/3/3
5	GDP	2S	501	-	-	3/12/32/32	0/3/3/3
3	GTP	4J	501	4	-	7/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GTP	2M	501	4	-	7/18/38/38	0/3/3/3
5	GDP	4X	501	-	-	3/12/32/32	0/3/3/3
5	GDP	1X	501	-	-	3/12/32/32	0/3/3/3
5	GDP	2T	501	-	-	3/12/32/32	0/3/3/3
3	GTP	2A	501	4	-	7/18/38/38	0/3/3/3
3	GTP	2C	501	4	-	7/18/38/38	0/3/3/3
3	GTP	4D	501	4	-	7/18/38/38	0/3/3/3
3	GTP	2D	501	4	-	7/18/38/38	0/3/3/3
5	GDP	1V	501	-	-	3/12/32/32	0/3/3/3
3	GTP	3C	501	4	-	7/18/38/38	0/3/3/3
5	GDP	2O	501	-	-	3/12/32/32	0/3/3/3
3	GTP	4L	501	4	-	7/18/38/38	0/3/3/3
5	GDP	3P	501	-	-	3/12/32/32	0/3/3/3
3	GTP	4E	501	4	-	7/18/38/38	0/3/3/3
3	GTP	3M	501	4	-	7/18/38/38	0/3/3/3
3	GTP	1N	501	4	-	7/18/38/38	0/3/3/3
5	GDP	3W	501	-	-	3/12/32/32	0/3/3/3
5	GDP	4W	501	-	-	3/12/32/32	0/3/3/3
5	GDP	4R	501	-	-	3/12/32/32	0/3/3/3
5	GDP	4U	501	-	-	3/12/32/32	0/3/3/3
3	GTP	3I	501	4	-	7/18/38/38	0/3/3/3
5	GDP	1O	501	-	-	3/12/32/32	0/3/3/3
5	GDP	1H	501	-	-	3/12/32/32	0/3/3/3
5	GDP	4Y	501	-	-	3/12/32/32	0/3/3/3
5	GDP	1U	501	-	-	3/12/32/32	0/3/3/3
3	GTP	1F	501	4	-	7/18/38/38	0/3/3/3
3	GTP	4F	501	4	-	7/18/38/38	0/3/3/3
3	GTP	3G	501	4	-	7/18/38/38	0/3/3/3
3	GTP	1K	501	4	-	7/18/38/38	0/3/3/3
3	GTP	4A	501	4	-	7/18/38/38	0/3/3/3
3	GTP	3E	501	4	-	7/18/38/38	0/3/3/3
5	GDP	2P	501	-	-	3/12/32/32	0/3/3/3
5	GDP	1S	501	-	-	3/12/32/32	0/3/3/3
3	GTP	4G	501	4	-	7/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	GDP	1Y	501	-	-	3/12/32/32	0/3/3/3
5	GDP	3T	501	-	-	3/12/32/32	0/3/3/3
3	GTP	2E	501	4	-	7/18/38/38	0/3/3/3
3	GTP	4C	501	4	-	7/18/38/38	0/3/3/3
5	GDP	2Y	501	-	-	3/12/32/32	0/3/3/3
3	GTP	1M	501	4	-	7/18/38/38	0/3/3/3
5	GDP	3V	501	-	-	3/12/32/32	0/3/3/3
5	GDP	2X	501	-	-	3/12/32/32	0/3/3/3
3	GTP	3F	501	4	-	7/18/38/38	0/3/3/3
3	GTP	3K	501	4	-	7/18/38/38	0/3/3/3
5	GDP	4P	501	-	-	3/12/32/32	0/3/3/3
3	GTP	3A	501	4	-	7/18/38/38	0/3/3/3
3	GTP	3J	501	4	-	7/18/38/38	0/3/3/3
5	GDP	1Q	501	-	-	3/12/32/32	0/3/3/3
5	GDP	2U	501	-	-	3/12/32/32	0/3/3/3
5	GDP	3O	501	-	-	3/12/32/32	0/3/3/3
3	GTP	2F	501	4	-	7/18/38/38	0/3/3/3
3	GTP	2G	501	4	-	7/18/38/38	0/3/3/3
3	GTP	3L	501	4	-	7/18/38/38	0/3/3/3
3	GTP	1J	501	4	-	7/18/38/38	0/3/3/3
5	GDP	2Z	501	-	-	3/12/32/32	0/3/3/3
5	GDP	3H	501	-	-	3/12/32/32	0/3/3/3
5	GDP	3U	501	-	-	3/12/32/32	0/3/3/3
3	GTP	4B	501	4	-	7/18/38/38	0/3/3/3
3	GTP	1A	501	4	-	7/18/38/38	0/3/3/3
5	GDP	4Q	501	-	-	3/12/32/32	0/3/3/3
5	GDP	2Q	501	-	-	3/12/32/32	0/3/3/3
5	GDP	3Z	501	-	-	3/12/32/32	0/3/3/3
3	GTP	1G	501	4	-	7/18/38/38	0/3/3/3
3	GTP	3D	501	4	-	7/18/38/38	0/3/3/3
3	GTP	1C	501	4	-	7/18/38/38	0/3/3/3
5	GDP	1Z	501	-	-	3/12/32/32	0/3/3/3
5	GDP	1W	501	-	-	3/12/32/32	0/3/3/3
5	GDP	4Z	501	-	-	3/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GTP	1B	501	4	-	7/18/38/38	0/3/3/3
3	GTP	4I	501	4	-	7/18/38/38	0/3/3/3
3	GTP	4K	501	4	-	7/18/38/38	0/3/3/3
3	GTP	2J	501	4	-	7/18/38/38	0/3/3/3
5	GDP	3Q	501	-	-	3/12/32/32	0/3/3/3
5	GDP	2H	501	-	-	3/12/32/32	0/3/3/3
3	GTP	2B	501	4	-	7/18/38/38	0/3/3/3
5	GDP	4V	501	-	-	3/12/32/32	0/3/3/3
5	GDP	1T	501	-	-	3/12/32/32	0/3/3/3
5	GDP	4H	501	-	-	3/12/32/32	0/3/3/3
5	GDP	2W	501	-	-	3/12/32/32	0/3/3/3
3	GTP	3B	501	4	-	7/18/38/38	0/3/3/3
5	GDP	2R	501	-	-	3/12/32/32	0/3/3/3
5	GDP	3Y	501	-	-	3/12/32/32	0/3/3/3
5	GDP	3R	501	-	-	3/12/32/32	0/3/3/3
3	GTP	4N	501	4	-	7/18/38/38	0/3/3/3
3	GTP	2K	501	4	-	7/18/38/38	0/3/3/3
3	GTP	4M	501	4	-	7/18/38/38	0/3/3/3
3	GTP	2L	501	4	-	7/18/38/38	0/3/3/3
3	GTP	1I	501	4	-	7/18/38/38	0/3/3/3
5	GDP	4S	501	-	-	3/12/32/32	0/3/3/3
5	GDP	2V	501	-	-	3/12/32/32	0/3/3/3
3	GTP	1L	501	4	-	7/18/38/38	0/3/3/3
3	GTP	3N	501	4	-	7/18/38/38	0/3/3/3
5	GDP	4O	501	-	-	3/12/32/32	0/3/3/3
3	GTP	1E	501	4	-	7/18/38/38	0/3/3/3
5	GDP	1P	501	-	-	3/12/32/32	0/3/3/3
5	GDP	4T	501	-	-	3/12/32/32	0/3/3/3
3	GTP	1D	501	4	-	7/18/38/38	0/3/3/3
5	GDP	3S	501	-	-	3/12/32/32	0/3/3/3
3	GTP	2N	501	4	-	7/18/38/38	0/3/3/3

All (104) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4J	501	GTP	C5-C6	-4.23	1.38	1.47
3	2G	501	GTP	C5-C6	-4.22	1.38	1.47
3	1G	501	GTP	C5-C6	-4.22	1.38	1.47
3	4G	501	GTP	C5-C6	-4.22	1.38	1.47
3	2J	501	GTP	C5-C6	-4.22	1.38	1.47
3	1L	501	GTP	C5-C6	-4.22	1.38	1.47
3	3D	501	GTP	C5-C6	-4.21	1.38	1.47
3	4B	501	GTP	C5-C6	-4.21	1.38	1.47
3	2N	501	GTP	C5-C6	-4.21	1.38	1.47
3	4A	501	GTP	C5-C6	-4.21	1.38	1.47
3	2B	501	GTP	C5-C6	-4.20	1.38	1.47
3	1B	501	GTP	C5-C6	-4.20	1.38	1.47
3	3A	501	GTP	C5-C6	-4.20	1.38	1.47
3	1J	501	GTP	C5-C6	-4.20	1.38	1.47
3	1M	501	GTP	C5-C6	-4.20	1.38	1.47
3	2M	501	GTP	C5-C6	-4.20	1.38	1.47
3	3B	501	GTP	C5-C6	-4.20	1.38	1.47
3	2E	501	GTP	C5-C6	-4.20	1.38	1.47
3	2D	501	GTP	C5-C6	-4.20	1.38	1.47
3	4M	501	GTP	C5-C6	-4.20	1.38	1.47
3	4N	501	GTP	C5-C6	-4.20	1.38	1.47
3	2L	501	GTP	C5-C6	-4.19	1.38	1.47
3	3G	501	GTP	C5-C6	-4.19	1.38	1.47
3	3E	501	GTP	C5-C6	-4.19	1.38	1.47
3	3N	501	GTP	C5-C6	-4.18	1.38	1.47
3	1N	501	GTP	C5-C6	-4.18	1.38	1.47
3	2F	501	GTP	C5-C6	-4.18	1.38	1.47
3	4D	501	GTP	C5-C6	-4.18	1.38	1.47
3	3M	501	GTP	C5-C6	-4.18	1.38	1.47
3	4C	501	GTP	C5-C6	-4.18	1.38	1.47
3	3I	501	GTP	C5-C6	-4.18	1.38	1.47
3	1F	501	GTP	C5-C6	-4.18	1.38	1.47
3	2A	501	GTP	C5-C6	-4.18	1.38	1.47
3	3C	501	GTP	C5-C6	-4.18	1.38	1.47
3	3J	501	GTP	C5-C6	-4.17	1.38	1.47
3	4E	501	GTP	C5-C6	-4.17	1.38	1.47
3	4I	501	GTP	C5-C6	-4.17	1.38	1.47
3	4L	501	GTP	C5-C6	-4.17	1.38	1.47
3	1I	501	GTP	C5-C6	-4.17	1.38	1.47
3	2C	501	GTP	C5-C6	-4.17	1.39	1.47
3	2K	501	GTP	C5-C6	-4.17	1.39	1.47
3	4F	501	GTP	C5-C6	-4.16	1.39	1.47
3	3L	501	GTP	C5-C6	-4.16	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2I	501	GTP	C5-C6	-4.16	1.39	1.47
3	3K	501	GTP	C5-C6	-4.16	1.39	1.47
3	4K	501	GTP	C5-C6	-4.15	1.39	1.47
3	1E	501	GTP	C5-C6	-4.15	1.39	1.47
3	1K	501	GTP	C5-C6	-4.15	1.39	1.47
3	3F	501	GTP	C5-C6	-4.15	1.39	1.47
3	1D	501	GTP	C5-C6	-4.15	1.39	1.47
3	1A	501	GTP	C5-C6	-4.14	1.39	1.47
3	1C	501	GTP	C5-C6	-4.13	1.39	1.47
5	4V	501	GDP	C6-N1	-2.91	1.33	1.37
5	3O	501	GDP	C6-N1	-2.89	1.33	1.37
5	2V	501	GDP	C6-N1	-2.89	1.33	1.37
5	1V	501	GDP	C6-N1	-2.88	1.33	1.37
5	2T	501	GDP	C6-N1	-2.88	1.33	1.37
5	2U	501	GDP	C6-N1	-2.88	1.33	1.37
5	2Q	501	GDP	C6-N1	-2.88	1.33	1.37
5	4U	501	GDP	C6-N1	-2.88	1.33	1.37
5	4H	501	GDP	C6-N1	-2.88	1.33	1.37
5	3U	501	GDP	C6-N1	-2.87	1.33	1.37
5	4S	501	GDP	C6-N1	-2.87	1.33	1.37
5	3P	501	GDP	C6-N1	-2.87	1.33	1.37
5	3Y	501	GDP	C6-N1	-2.86	1.33	1.37
5	1R	501	GDP	C6-N1	-2.86	1.33	1.37
5	3R	501	GDP	C6-N1	-2.86	1.33	1.37
5	2R	501	GDP	C6-N1	-2.86	1.33	1.37
5	4Y	501	GDP	C6-N1	-2.86	1.33	1.37
5	1Y	501	GDP	C6-N1	-2.85	1.33	1.37
5	3S	501	GDP	C6-N1	-2.85	1.33	1.37
5	3T	501	GDP	C6-N1	-2.85	1.33	1.37
5	4P	501	GDP	C6-N1	-2.85	1.33	1.37
5	4Z	501	GDP	C6-N1	-2.85	1.33	1.37
5	1S	501	GDP	C6-N1	-2.85	1.33	1.37
5	1Z	501	GDP	C6-N1	-2.85	1.33	1.37
5	2Z	501	GDP	C6-N1	-2.85	1.33	1.37
5	1H	501	GDP	C6-N1	-2.85	1.33	1.37
5	4O	501	GDP	C6-N1	-2.85	1.33	1.37
5	2Y	501	GDP	C6-N1	-2.85	1.33	1.37
5	1O	501	GDP	C6-N1	-2.85	1.33	1.37
5	3X	501	GDP	C6-N1	-2.85	1.33	1.37
5	2S	501	GDP	C6-N1	-2.84	1.33	1.37
5	2H	501	GDP	C6-N1	-2.84	1.33	1.37
5	3Z	501	GDP	C6-N1	-2.84	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1U	501	GDP	C6-N1	-2.84	1.33	1.37
5	3W	501	GDP	C6-N1	-2.84	1.33	1.37
5	3V	501	GDP	C6-N1	-2.84	1.33	1.37
5	4Q	501	GDP	C6-N1	-2.84	1.33	1.37
5	1W	501	GDP	C6-N1	-2.84	1.33	1.37
5	1P	501	GDP	C6-N1	-2.84	1.33	1.37
5	2P	501	GDP	C6-N1	-2.83	1.33	1.37
5	4X	501	GDP	C6-N1	-2.83	1.33	1.37
5	2X	501	GDP	C6-N1	-2.83	1.33	1.37
5	1Q	501	GDP	C6-N1	-2.82	1.33	1.37
5	3Q	501	GDP	C6-N1	-2.82	1.33	1.37
5	4W	501	GDP	C6-N1	-2.82	1.33	1.37
5	2W	501	GDP	C6-N1	-2.82	1.33	1.37
5	1T	501	GDP	C6-N1	-2.82	1.33	1.37
5	4R	501	GDP	C6-N1	-2.82	1.33	1.37
5	3H	501	GDP	C6-N1	-2.81	1.33	1.37
5	1X	501	GDP	C6-N1	-2.81	1.33	1.37
5	4T	501	GDP	C6-N1	-2.80	1.33	1.37
5	2O	501	GDP	C6-N1	-2.80	1.33	1.37

All (553) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1E	501	GTP	PB-O3B-PG	-3.79	119.81	132.83
3	3K	501	GTP	PB-O3B-PG	-3.79	119.81	132.83
3	1M	501	GTP	PB-O3B-PG	-3.79	119.81	132.83
3	4N	501	GTP	PB-O3B-PG	-3.79	119.81	132.83
3	2E	501	GTP	PB-O3B-PG	-3.79	119.81	132.83
3	4J	501	GTP	PB-O3B-PG	-3.79	119.81	132.83
3	3M	501	GTP	PB-O3B-PG	-3.79	119.81	132.83
3	3C	501	GTP	PB-O3B-PG	-3.79	119.81	132.83
3	4C	501	GTP	PB-O3B-PG	-3.79	119.81	132.83
3	2J	501	GTP	PB-O3B-PG	-3.79	119.82	132.83
3	2G	501	GTP	PB-O3B-PG	-3.79	119.82	132.83
3	1N	501	GTP	PB-O3B-PG	-3.79	119.82	132.83
3	1C	501	GTP	PB-O3B-PG	-3.79	119.82	132.83
3	2B	501	GTP	PB-O3B-PG	-3.79	119.82	132.83
3	2K	501	GTP	PB-O3B-PG	-3.79	119.83	132.83
3	4A	501	GTP	PB-O3B-PG	-3.79	119.83	132.83
3	1G	501	GTP	PB-O3B-PG	-3.79	119.83	132.83
3	2A	501	GTP	PB-O3B-PG	-3.79	119.83	132.83
3	4B	501	GTP	PB-O3B-PG	-3.79	119.83	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1F	501	GTP	PB-O3B-PG	-3.79	119.83	132.83
3	3E	501	GTP	PB-O3B-PG	-3.79	119.84	132.83
3	4M	501	GTP	PB-O3B-PG	-3.79	119.84	132.83
3	1A	501	GTP	PB-O3B-PG	-3.78	119.84	132.83
3	2C	501	GTP	PB-O3B-PG	-3.78	119.84	132.83
3	2M	501	GTP	PB-O3B-PG	-3.78	119.84	132.83
3	3G	501	GTP	PB-O3B-PG	-3.78	119.84	132.83
3	4I	501	GTP	PB-O3B-PG	-3.78	119.84	132.83
3	3B	501	GTP	PB-O3B-PG	-3.78	119.84	132.83
3	3I	501	GTP	PB-O3B-PG	-3.78	119.84	132.83
3	2L	501	GTP	PB-O3B-PG	-3.78	119.84	132.83
3	3N	501	GTP	PB-O3B-PG	-3.78	119.85	132.83
3	3A	501	GTP	PB-O3B-PG	-3.78	119.85	132.83
3	3J	501	GTP	PB-O3B-PG	-3.78	119.85	132.83
3	3F	501	GTP	PB-O3B-PG	-3.78	119.85	132.83
3	3L	501	GTP	PB-O3B-PG	-3.78	119.85	132.83
3	1B	501	GTP	PB-O3B-PG	-3.78	119.85	132.83
3	1L	501	GTP	PB-O3B-PG	-3.78	119.85	132.83
3	4E	501	GTP	PB-O3B-PG	-3.78	119.86	132.83
3	4D	501	GTP	PB-O3B-PG	-3.78	119.86	132.83
3	1J	501	GTP	PB-O3B-PG	-3.78	119.86	132.83
3	4K	501	GTP	PB-O3B-PG	-3.78	119.86	132.83
3	1D	501	GTP	PB-O3B-PG	-3.78	119.86	132.83
3	2F	501	GTP	PB-O3B-PG	-3.78	119.86	132.83
3	1I	501	GTP	PB-O3B-PG	-3.78	119.86	132.83
3	2N	501	GTP	PB-O3B-PG	-3.78	119.87	132.83
3	4G	501	GTP	PB-O3B-PG	-3.78	119.87	132.83
3	4L	501	GTP	PB-O3B-PG	-3.78	119.87	132.83
3	2D	501	GTP	PB-O3B-PG	-3.77	119.87	132.83
3	1K	501	GTP	PB-O3B-PG	-3.77	119.88	132.83
3	2I	501	GTP	PB-O3B-PG	-3.77	119.89	132.83
3	3D	501	GTP	PB-O3B-PG	-3.77	119.89	132.83
3	4F	501	GTP	PB-O3B-PG	-3.77	119.89	132.83
3	1B	501	GTP	PA-O3A-PB	-3.72	120.06	132.83
3	4G	501	GTP	PA-O3A-PB	-3.72	120.07	132.83
3	1I	501	GTP	PA-O3A-PB	-3.72	120.08	132.83
3	2G	501	GTP	PA-O3A-PB	-3.71	120.08	132.83
3	4J	501	GTP	PA-O3A-PB	-3.71	120.08	132.83
3	1E	501	GTP	PA-O3A-PB	-3.71	120.08	132.83
3	4M	501	GTP	PA-O3A-PB	-3.71	120.08	132.83
3	4N	501	GTP	PA-O3A-PB	-3.71	120.09	132.83
3	3N	501	GTP	PA-O3A-PB	-3.71	120.09	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1G	501	GTP	PA-O3A-PB	-3.71	120.09	132.83
3	3K	501	GTP	PA-O3A-PB	-3.71	120.10	132.83
3	3E	501	GTP	PA-O3A-PB	-3.71	120.10	132.83
3	2K	501	GTP	PA-O3A-PB	-3.71	120.10	132.83
3	3J	501	GTP	PA-O3A-PB	-3.71	120.10	132.83
3	4E	501	GTP	PA-O3A-PB	-3.71	120.10	132.83
3	3B	501	GTP	PA-O3A-PB	-3.71	120.10	132.83
3	2A	501	GTP	PA-O3A-PB	-3.71	120.11	132.83
3	1L	501	GTP	PA-O3A-PB	-3.71	120.11	132.83
3	2M	501	GTP	PA-O3A-PB	-3.71	120.11	132.83
3	3G	501	GTP	PA-O3A-PB	-3.71	120.11	132.83
3	1F	501	GTP	PA-O3A-PB	-3.71	120.11	132.83
3	3F	501	GTP	PA-O3A-PB	-3.71	120.11	132.83
3	3C	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	3D	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	4A	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	2N	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	3A	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	2D	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	1C	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	1M	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	1N	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	2B	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	4F	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	4B	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	2F	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	3M	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	2J	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
3	2I	501	GTP	PA-O3A-PB	-3.70	120.13	132.83
3	2L	501	GTP	PA-O3A-PB	-3.70	120.13	132.83
3	3I	501	GTP	PA-O3A-PB	-3.70	120.13	132.83
3	4D	501	GTP	PA-O3A-PB	-3.70	120.13	132.83
3	4K	501	GTP	PA-O3A-PB	-3.70	120.13	132.83
3	1A	501	GTP	PA-O3A-PB	-3.70	120.13	132.83
3	1D	501	GTP	PA-O3A-PB	-3.70	120.13	132.83
3	1K	501	GTP	PA-O3A-PB	-3.70	120.13	132.83
3	4I	501	GTP	PA-O3A-PB	-3.70	120.13	132.83
3	2C	501	GTP	PA-O3A-PB	-3.70	120.14	132.83
3	4C	501	GTP	PA-O3A-PB	-3.70	120.14	132.83
3	4L	501	GTP	PA-O3A-PB	-3.70	120.14	132.83
3	3L	501	GTP	PA-O3A-PB	-3.69	120.15	132.83
3	1J	501	GTP	PA-O3A-PB	-3.69	120.16	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	2E	501	GTP	PA-O3A-PB	-3.69	120.17	132.83
3	3I	501	GTP	C5-C6-N1	3.50	120.14	113.95
3	3D	501	GTP	C5-C6-N1	3.50	120.13	113.95
3	2F	501	GTP	C5-C6-N1	3.50	120.13	113.95
3	1B	501	GTP	C5-C6-N1	3.50	120.13	113.95
3	4I	501	GTP	C5-C6-N1	3.50	120.13	113.95
3	4D	501	GTP	C5-C6-N1	3.50	120.12	113.95
3	2M	501	GTP	C5-C6-N1	3.49	120.12	113.95
3	4N	501	GTP	C5-C6-N1	3.49	120.12	113.95
3	2J	501	GTP	C5-C6-N1	3.49	120.12	113.95
3	2N	501	GTP	C5-C6-N1	3.49	120.12	113.95
3	2G	501	GTP	C5-C6-N1	3.49	120.12	113.95
3	3J	501	GTP	C5-C6-N1	3.49	120.11	113.95
3	4E	501	GTP	C5-C6-N1	3.49	120.11	113.95
3	3A	501	GTP	C5-C6-N1	3.49	120.11	113.95
3	4G	501	GTP	C5-C6-N1	3.49	120.11	113.95
3	3E	501	GTP	C5-C6-N1	3.48	120.10	113.95
3	2E	501	GTP	C5-C6-N1	3.48	120.10	113.95
3	4B	501	GTP	C5-C6-N1	3.48	120.09	113.95
3	4L	501	GTP	C5-C6-N1	3.48	120.09	113.95
3	1M	501	GTP	C5-C6-N1	3.48	120.09	113.95
3	1K	501	GTP	C5-C6-N1	3.48	120.09	113.95
3	2I	501	GTP	C5-C6-N1	3.48	120.09	113.95
3	2A	501	GTP	C5-C6-N1	3.48	120.09	113.95
3	2B	501	GTP	C5-C6-N1	3.48	120.09	113.95
3	2C	501	GTP	C5-C6-N1	3.47	120.09	113.95
3	4C	501	GTP	C5-C6-N1	3.47	120.08	113.95
3	2K	501	GTP	C5-C6-N1	3.47	120.08	113.95
3	1D	501	GTP	C5-C6-N1	3.47	120.08	113.95
3	1A	501	GTP	C5-C6-N1	3.47	120.08	113.95
3	3C	501	GTP	C5-C6-N1	3.47	120.08	113.95
3	4A	501	GTP	C5-C6-N1	3.47	120.07	113.95
3	3M	501	GTP	C5-C6-N1	3.47	120.07	113.95
3	3N	501	GTP	C5-C6-N1	3.47	120.07	113.95
3	1N	501	GTP	C5-C6-N1	3.47	120.07	113.95
3	2D	501	GTP	C5-C6-N1	3.47	120.07	113.95
3	1L	501	GTP	C5-C6-N1	3.47	120.07	113.95
3	3G	501	GTP	C5-C6-N1	3.46	120.07	113.95
3	2L	501	GTP	C5-C6-N1	3.46	120.07	113.95
3	3L	501	GTP	C5-C6-N1	3.46	120.07	113.95
3	1G	501	GTP	C5-C6-N1	3.46	120.06	113.95
3	3B	501	GTP	C5-C6-N1	3.46	120.06	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	4F	501	GTP	C5-C6-N1	3.46	120.06	113.95
3	3K	501	GTP	C5-C6-N1	3.46	120.06	113.95
3	4J	501	GTP	C5-C6-N1	3.46	120.05	113.95
3	1F	501	GTP	C5-C6-N1	3.45	120.05	113.95
3	1C	501	GTP	C5-C6-N1	3.45	120.05	113.95
3	4K	501	GTP	C5-C6-N1	3.45	120.04	113.95
3	4M	501	GTP	C5-C6-N1	3.45	120.04	113.95
3	1I	501	GTP	C5-C6-N1	3.45	120.04	113.95
3	1E	501	GTP	C5-C6-N1	3.45	120.04	113.95
3	3F	501	GTP	C5-C6-N1	3.45	120.04	113.95
3	1J	501	GTP	C5-C6-N1	3.45	120.04	113.95
3	4E	501	GTP	C2-N1-C6	-3.17	119.27	125.10
3	4D	501	GTP	C2-N1-C6	-3.16	119.28	125.10
3	2M	501	GTP	C2-N1-C6	-3.16	119.29	125.10
3	4L	501	GTP	C2-N1-C6	-3.15	119.29	125.10
3	2N	501	GTP	C2-N1-C6	-3.15	119.30	125.10
3	3A	501	GTP	C2-N1-C6	-3.15	119.30	125.10
3	2G	501	GTP	C2-N1-C6	-3.15	119.30	125.10
3	4I	501	GTP	C2-N1-C6	-3.15	119.30	125.10
3	2F	501	GTP	C2-N1-C6	-3.15	119.30	125.10
3	1B	501	GTP	C2-N1-C6	-3.15	119.30	125.10
3	3I	501	GTP	C2-N1-C6	-3.15	119.30	125.10
3	3E	501	GTP	C2-N1-C6	-3.15	119.30	125.10
3	3D	501	GTP	C2-N1-C6	-3.15	119.31	125.10
3	3J	501	GTP	C2-N1-C6	-3.15	119.31	125.10
3	4G	501	GTP	C2-N1-C6	-3.15	119.31	125.10
3	1L	501	GTP	C2-N1-C6	-3.14	119.31	125.10
3	4N	501	GTP	C2-N1-C6	-3.14	119.31	125.10
3	2C	501	GTP	C2-N1-C6	-3.14	119.31	125.10
3	2I	501	GTP	C2-N1-C6	-3.14	119.31	125.10
3	2E	501	GTP	C2-N1-C6	-3.14	119.32	125.10
3	4B	501	GTP	C2-N1-C6	-3.14	119.32	125.10
3	3K	501	GTP	C2-N1-C6	-3.14	119.32	125.10
3	3G	501	GTP	C2-N1-C6	-3.13	119.33	125.10
3	1M	501	GTP	C2-N1-C6	-3.13	119.33	125.10
3	3N	501	GTP	C2-N1-C6	-3.13	119.33	125.10
3	2B	501	GTP	C2-N1-C6	-3.13	119.33	125.10
3	3M	501	GTP	C2-N1-C6	-3.13	119.34	125.10
3	2J	501	GTP	C2-N1-C6	-3.13	119.34	125.10
3	1D	501	GTP	C2-N1-C6	-3.13	119.34	125.10
3	3C	501	GTP	C2-N1-C6	-3.12	119.35	125.10
3	2L	501	GTP	C2-N1-C6	-3.12	119.35	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1C	501	GTP	C2-N1-C6	-3.12	119.35	125.10
3	3L	501	GTP	C2-N1-C6	-3.12	119.35	125.10
3	2D	501	GTP	C2-N1-C6	-3.12	119.35	125.10
3	2A	501	GTP	C2-N1-C6	-3.12	119.35	125.10
3	3L	501	GTP	C8-N7-C5	3.12	108.94	102.99
3	1E	501	GTP	C2-N1-C6	-3.12	119.35	125.10
3	4M	501	GTP	C2-N1-C6	-3.12	119.35	125.10
3	1G	501	GTP	C2-N1-C6	-3.12	119.35	125.10
3	1J	501	GTP	C2-N1-C6	-3.12	119.35	125.10
3	1K	501	GTP	C2-N1-C6	-3.12	119.36	125.10
3	4F	501	GTP	C2-N1-C6	-3.12	119.36	125.10
3	2K	501	GTP	C2-N1-C6	-3.12	119.36	125.10
3	1N	501	GTP	C2-N1-C6	-3.11	119.37	125.10
3	3F	501	GTP	C2-N1-C6	-3.11	119.37	125.10
3	4A	501	GTP	C2-N1-C6	-3.11	119.37	125.10
3	3G	501	GTP	C8-N7-C5	3.11	108.92	102.99
3	3B	501	GTP	C2-N1-C6	-3.11	119.37	125.10
3	2E	501	GTP	C8-N7-C5	3.11	108.91	102.99
3	4J	501	GTP	C2-N1-C6	-3.11	119.37	125.10
3	4K	501	GTP	C2-N1-C6	-3.11	119.37	125.10
3	2G	501	GTP	C8-N7-C5	3.11	108.91	102.99
3	3B	501	GTP	C8-N7-C5	3.11	108.91	102.99
3	3J	501	GTP	C8-N7-C5	3.11	108.91	102.99
3	1F	501	GTP	C2-N1-C6	-3.11	119.38	125.10
3	4C	501	GTP	C2-N1-C6	-3.11	119.38	125.10
3	1I	501	GTP	C2-N1-C6	-3.11	119.38	125.10
3	2L	501	GTP	C8-N7-C5	3.10	108.90	102.99
3	1A	501	GTP	C2-N1-C6	-3.10	119.39	125.10
3	4G	501	GTP	C8-N7-C5	3.10	108.89	102.99
3	4M	501	GTP	C8-N7-C5	3.10	108.89	102.99
3	1K	501	GTP	C8-N7-C5	3.10	108.89	102.99
3	1J	501	GTP	C8-N7-C5	3.10	108.89	102.99
3	2B	501	GTP	C8-N7-C5	3.10	108.89	102.99
3	1I	501	GTP	C8-N7-C5	3.09	108.89	102.99
3	2I	501	GTP	C8-N7-C5	3.09	108.89	102.99
3	3D	501	GTP	C8-N7-C5	3.09	108.89	102.99
3	4N	501	GTP	C8-N7-C5	3.09	108.88	102.99
3	2C	501	GTP	C8-N7-C5	3.09	108.88	102.99
3	1M	501	GTP	C8-N7-C5	3.09	108.88	102.99
3	2J	501	GTP	C8-N7-C5	3.09	108.88	102.99
3	2M	501	GTP	C8-N7-C5	3.09	108.88	102.99
3	3K	501	GTP	C8-N7-C5	3.09	108.88	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	2K	501	GTP	C8-N7-C5	3.09	108.88	102.99
3	4J	501	GTP	C8-N7-C5	3.09	108.87	102.99
3	4C	501	GTP	C8-N7-C5	3.09	108.87	102.99
3	4I	501	GTP	C8-N7-C5	3.09	108.87	102.99
3	4L	501	GTP	C8-N7-C5	3.08	108.87	102.99
3	1F	501	GTP	C8-N7-C5	3.08	108.86	102.99
3	3C	501	GTP	C8-N7-C5	3.08	108.86	102.99
3	4F	501	GTP	C8-N7-C5	3.08	108.86	102.99
3	2A	501	GTP	C8-N7-C5	3.08	108.86	102.99
3	1C	501	GTP	C8-N7-C5	3.08	108.86	102.99
3	1A	501	GTP	C8-N7-C5	3.08	108.86	102.99
3	1G	501	GTP	C8-N7-C5	3.08	108.86	102.99
3	2N	501	GTP	C8-N7-C5	3.08	108.86	102.99
3	4D	501	GTP	C8-N7-C5	3.08	108.86	102.99
3	2F	501	GTP	C8-N7-C5	3.08	108.86	102.99
3	4E	501	GTP	C8-N7-C5	3.08	108.85	102.99
3	3E	501	GTP	C8-N7-C5	3.08	108.85	102.99
3	1D	501	GTP	C8-N7-C5	3.08	108.85	102.99
3	3N	501	GTP	C8-N7-C5	3.08	108.85	102.99
3	1E	501	GTP	C8-N7-C5	3.08	108.85	102.99
3	4B	501	GTP	C8-N7-C5	3.08	108.85	102.99
3	1B	501	GTP	C8-N7-C5	3.07	108.84	102.99
3	4A	501	GTP	C8-N7-C5	3.07	108.84	102.99
3	3I	501	GTP	C8-N7-C5	3.07	108.84	102.99
3	3F	501	GTP	C8-N7-C5	3.07	108.84	102.99
3	1N	501	GTP	C8-N7-C5	3.07	108.83	102.99
3	1L	501	GTP	C8-N7-C5	3.07	108.83	102.99
3	2D	501	GTP	C8-N7-C5	3.07	108.83	102.99
3	3A	501	GTP	C8-N7-C5	3.07	108.83	102.99
3	3M	501	GTP	C8-N7-C5	3.06	108.83	102.99
3	4K	501	GTP	C8-N7-C5	3.06	108.83	102.99
5	1O	501	GDP	PA-O3A-PB	-2.99	122.56	132.83
5	2P	501	GDP	PA-O3A-PB	-2.99	122.57	132.83
5	3V	501	GDP	PA-O3A-PB	-2.99	122.57	132.83
5	3O	501	GDP	PA-O3A-PB	-2.99	122.57	132.83
5	1Q	501	GDP	PA-O3A-PB	-2.99	122.58	132.83
5	2T	501	GDP	PA-O3A-PB	-2.99	122.58	132.83
5	1P	501	GDP	PA-O3A-PB	-2.99	122.58	132.83
5	2O	501	GDP	PA-O3A-PB	-2.99	122.58	132.83
5	3Q	501	GDP	PA-O3A-PB	-2.98	122.59	132.83
5	2S	501	GDP	PA-O3A-PB	-2.98	122.59	132.83
5	3T	501	GDP	PA-O3A-PB	-2.98	122.59	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	3U	501	GDP	PA-O3A-PB	-2.98	122.59	132.83
5	4T	501	GDP	PA-O3A-PB	-2.98	122.59	132.83
5	3X	501	GDP	PA-O3A-PB	-2.98	122.59	132.83
5	2X	501	GDP	PA-O3A-PB	-2.98	122.59	132.83
5	4U	501	GDP	PA-O3A-PB	-2.98	122.59	132.83
5	4Z	501	GDP	PA-O3A-PB	-2.98	122.59	132.83
5	1T	501	GDP	PA-O3A-PB	-2.98	122.59	132.83
5	4X	501	GDP	PA-O3A-PB	-2.98	122.59	132.83
5	4P	501	GDP	PA-O3A-PB	-2.98	122.60	132.83
5	1U	501	GDP	PA-O3A-PB	-2.98	122.60	132.83
5	2Y	501	GDP	PA-O3A-PB	-2.98	122.60	132.83
5	4O	501	GDP	PA-O3A-PB	-2.98	122.60	132.83
5	4Y	501	GDP	PA-O3A-PB	-2.98	122.60	132.83
5	1S	501	GDP	PA-O3A-PB	-2.98	122.60	132.83
5	3W	501	GDP	PA-O3A-PB	-2.98	122.60	132.83
5	4R	501	GDP	PA-O3A-PB	-2.98	122.60	132.83
5	2Q	501	GDP	PA-O3A-PB	-2.98	122.60	132.83
5	1X	501	GDP	PA-O3A-PB	-2.98	122.61	132.83
5	2V	501	GDP	PA-O3A-PB	-2.98	122.61	132.83
5	2U	501	GDP	PA-O3A-PB	-2.98	122.61	132.83
5	3S	501	GDP	PA-O3A-PB	-2.98	122.61	132.83
5	2R	501	GDP	PA-O3A-PB	-2.98	122.61	132.83
5	1V	501	GDP	PA-O3A-PB	-2.98	122.61	132.83
5	2H	501	GDP	PA-O3A-PB	-2.98	122.61	132.83
5	3R	501	GDP	PA-O3A-PB	-2.98	122.61	132.83
5	4W	501	GDP	PA-O3A-PB	-2.98	122.61	132.83
5	4V	501	GDP	PA-O3A-PB	-2.98	122.62	132.83
5	4Q	501	GDP	PA-O3A-PB	-2.98	122.62	132.83
5	3P	501	GDP	PA-O3A-PB	-2.97	122.62	132.83
5	2W	501	GDP	PA-O3A-PB	-2.97	122.62	132.83
5	3Y	501	GDP	PA-O3A-PB	-2.97	122.62	132.83
5	3H	501	GDP	PA-O3A-PB	-2.97	122.62	132.83
5	1R	501	GDP	PA-O3A-PB	-2.97	122.62	132.83
5	2Z	501	GDP	PA-O3A-PB	-2.97	122.62	132.83
5	3Z	501	GDP	PA-O3A-PB	-2.97	122.63	132.83
5	4S	501	GDP	PA-O3A-PB	-2.97	122.63	132.83
5	1W	501	GDP	PA-O3A-PB	-2.97	122.63	132.83
5	1Y	501	GDP	PA-O3A-PB	-2.97	122.64	132.83
5	1H	501	GDP	PA-O3A-PB	-2.97	122.64	132.83
5	1Z	501	GDP	PA-O3A-PB	-2.97	122.64	132.83
5	4H	501	GDP	PA-O3A-PB	-2.97	122.64	132.83
5	1Y	501	GDP	C3'-C2'-C1'	2.61	104.90	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	4W	501	GDP	C3'-C2'-C1'	2.60	104.90	100.98
5	1Q	501	GDP	C3'-C2'-C1'	2.60	104.89	100.98
5	2T	501	GDP	C3'-C2'-C1'	2.60	104.89	100.98
5	3U	501	GDP	C3'-C2'-C1'	2.60	104.89	100.98
5	2R	501	GDP	C3'-C2'-C1'	2.59	104.89	100.98
5	3T	501	GDP	C3'-C2'-C1'	2.59	104.89	100.98
5	4S	501	GDP	C3'-C2'-C1'	2.59	104.88	100.98
5	1Z	501	GDP	C3'-C2'-C1'	2.59	104.88	100.98
5	2W	501	GDP	C3'-C2'-C1'	2.59	104.88	100.98
5	4T	501	GDP	C3'-C2'-C1'	2.59	104.88	100.98
5	3O	501	GDP	C3'-C2'-C1'	2.59	104.87	100.98
5	4U	501	GDP	C3'-C2'-C1'	2.59	104.87	100.98
5	4X	501	GDP	C3'-C2'-C1'	2.59	104.87	100.98
5	2V	501	GDP	C3'-C2'-C1'	2.58	104.87	100.98
5	1S	501	GDP	C3'-C2'-C1'	2.58	104.87	100.98
5	3P	501	GDP	C3'-C2'-C1'	2.58	104.87	100.98
5	3V	501	GDP	C3'-C2'-C1'	2.58	104.87	100.98
5	2X	501	GDP	C3'-C2'-C1'	2.58	104.86	100.98
5	4Q	501	GDP	C3'-C2'-C1'	2.58	104.86	100.98
5	1R	501	GDP	C3'-C2'-C1'	2.58	104.86	100.98
5	2H	501	GDP	C3'-C2'-C1'	2.58	104.86	100.98
5	1U	501	GDP	C3'-C2'-C1'	2.58	104.86	100.98
5	3W	501	GDP	C3'-C2'-C1'	2.58	104.86	100.98
5	4P	501	GDP	C3'-C2'-C1'	2.58	104.86	100.98
5	1P	501	GDP	C3'-C2'-C1'	2.57	104.85	100.98
5	1W	501	GDP	C3'-C2'-C1'	2.57	104.85	100.98
5	2Z	501	GDP	C3'-C2'-C1'	2.57	104.85	100.98
5	1O	501	GDP	C3'-C2'-C1'	2.57	104.85	100.98
5	2P	501	GDP	C3'-C2'-C1'	2.57	104.85	100.98
5	1H	501	GDP	C3'-C2'-C1'	2.57	104.85	100.98
5	2S	501	GDP	C3'-C2'-C1'	2.57	104.84	100.98
5	3Q	501	GDP	C3'-C2'-C1'	2.57	104.84	100.98
3	2K	501	GTP	C3'-C2'-C1'	2.57	104.84	100.98
3	2J	501	GTP	C3'-C2'-C1'	2.57	104.84	100.98
5	3H	501	GDP	C3'-C2'-C1'	2.57	104.84	100.98
3	2M	501	GTP	C3'-C2'-C1'	2.56	104.83	100.98
3	1K	501	GTP	C3'-C2'-C1'	2.56	104.83	100.98
5	3R	501	GDP	C3'-C2'-C1'	2.56	104.83	100.98
5	4V	501	GDP	C3'-C2'-C1'	2.56	104.83	100.98
5	3X	501	GDP	C3'-C2'-C1'	2.56	104.83	100.98
5	2U	501	GDP	C3'-C2'-C1'	2.56	104.83	100.98
5	3Z	501	GDP	C3'-C2'-C1'	2.56	104.83	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	1V	501	GDP	C3'-C2'-C1'	2.56	104.83	100.98
5	2Y	501	GDP	C3'-C2'-C1'	2.56	104.83	100.98
5	3S	501	GDP	C3'-C2'-C1'	2.56	104.83	100.98
3	1N	501	GTP	C3'-C2'-C1'	2.56	104.83	100.98
3	4D	501	GTP	C3'-C2'-C1'	2.56	104.83	100.98
5	4Y	501	GDP	C3'-C2'-C1'	2.56	104.83	100.98
3	3K	501	GTP	C3'-C2'-C1'	2.56	104.83	100.98
5	2Q	501	GDP	C3'-C2'-C1'	2.55	104.82	100.98
5	3Y	501	GDP	C3'-C2'-C1'	2.55	104.82	100.98
3	1A	501	GTP	C3'-C2'-C1'	2.55	104.82	100.98
5	1X	501	GDP	C3'-C2'-C1'	2.55	104.82	100.98
5	4R	501	GDP	C3'-C2'-C1'	2.55	104.82	100.98
3	3N	501	GTP	C3'-C2'-C1'	2.55	104.82	100.98
5	2O	501	GDP	C3'-C2'-C1'	2.55	104.82	100.98
3	4N	501	GTP	C3'-C2'-C1'	2.55	104.81	100.98
5	1T	501	GDP	C3'-C2'-C1'	2.55	104.81	100.98
5	4Z	501	GDP	C3'-C2'-C1'	2.55	104.81	100.98
5	4H	501	GDP	C3'-C2'-C1'	2.55	104.81	100.98
5	4O	501	GDP	C3'-C2'-C1'	2.55	104.81	100.98
3	4I	501	GTP	C3'-C2'-C1'	2.55	104.81	100.98
3	3E	501	GTP	C3'-C2'-C1'	2.54	104.81	100.98
3	3L	501	GTP	C3'-C2'-C1'	2.54	104.81	100.98
3	2I	501	GTP	C3'-C2'-C1'	2.54	104.81	100.98
3	1E	501	GTP	C3'-C2'-C1'	2.54	104.81	100.98
3	2N	501	GTP	C3'-C2'-C1'	2.54	104.81	100.98
3	4G	501	GTP	C3'-C2'-C1'	2.54	104.80	100.98
3	2C	501	GTP	C3'-C2'-C1'	2.54	104.80	100.98
3	3B	501	GTP	C3'-C2'-C1'	2.54	104.80	100.98
3	3C	501	GTP	C3'-C2'-C1'	2.54	104.80	100.98
3	4M	501	GTP	C3'-C2'-C1'	2.54	104.80	100.98
3	1L	501	GTP	C3'-C2'-C1'	2.54	104.80	100.98
3	3I	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
3	2F	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
3	3G	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
3	2L	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
3	3J	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
3	2B	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
3	3M	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
3	4E	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
3	1M	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
3	1B	501	GTP	C3'-C2'-C1'	2.53	104.78	100.98
3	4C	501	GTP	C3'-C2'-C1'	2.53	104.78	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	2E	501	GTP	C3'-C2'-C1'	2.53	104.78	100.98
3	1D	501	GTP	C3'-C2'-C1'	2.52	104.78	100.98
3	2D	501	GTP	C3'-C2'-C1'	2.52	104.78	100.98
3	1I	501	GTP	C3'-C2'-C1'	2.52	104.78	100.98
3	4B	501	GTP	C3'-C2'-C1'	2.52	104.78	100.98
3	1G	501	GTP	C3'-C2'-C1'	2.52	104.77	100.98
3	1F	501	GTP	C3'-C2'-C1'	2.52	104.77	100.98
3	3A	501	GTP	C3'-C2'-C1'	2.52	104.77	100.98
3	4J	501	GTP	C3'-C2'-C1'	2.51	104.76	100.98
3	4K	501	GTP	C3'-C2'-C1'	2.51	104.76	100.98
3	3F	501	GTP	C3'-C2'-C1'	2.51	104.76	100.98
3	1C	501	GTP	C3'-C2'-C1'	2.51	104.76	100.98
3	4F	501	GTP	C3'-C2'-C1'	2.51	104.76	100.98
3	1J	501	GTP	C3'-C2'-C1'	2.51	104.75	100.98
3	2A	501	GTP	C3'-C2'-C1'	2.51	104.75	100.98
3	3D	501	GTP	C3'-C2'-C1'	2.51	104.75	100.98
3	4L	501	GTP	C3'-C2'-C1'	2.50	104.74	100.98
3	4A	501	GTP	C3'-C2'-C1'	2.50	104.74	100.98
3	2G	501	GTP	C3'-C2'-C1'	2.50	104.74	100.98
5	1H	501	GDP	C8-N7-C5	2.31	107.40	102.99
5	2O	501	GDP	C8-N7-C5	2.31	107.40	102.99
5	2Y	501	GDP	C5-C6-N1	2.31	118.03	113.95
5	2U	501	GDP	C8-N7-C5	2.31	107.39	102.99
5	2H	501	GDP	C8-N7-C5	2.31	107.39	102.99
5	4S	501	GDP	C8-N7-C5	2.31	107.39	102.99
5	3O	501	GDP	C5-C6-N1	2.31	118.03	113.95
5	4R	501	GDP	C8-N7-C5	2.31	107.39	102.99
5	4V	501	GDP	C8-N7-C5	2.31	107.39	102.99
5	3V	501	GDP	C5-C6-N1	2.31	118.03	113.95
5	4W	501	GDP	C8-N7-C5	2.30	107.38	102.99
5	2Q	501	GDP	C5-C6-N1	2.30	118.02	113.95
5	1R	501	GDP	C5-C6-N1	2.30	118.02	113.95
5	1Q	501	GDP	C8-N7-C5	2.30	107.38	102.99
5	2Q	501	GDP	C8-N7-C5	2.30	107.38	102.99
5	1R	501	GDP	C8-N7-C5	2.30	107.38	102.99
5	1Z	501	GDP	C8-N7-C5	2.30	107.38	102.99
5	1X	501	GDP	C8-N7-C5	2.30	107.37	102.99
5	2R	501	GDP	C8-N7-C5	2.30	107.37	102.99
5	4R	501	GDP	C5-C6-N1	2.30	118.01	113.95
5	3U	501	GDP	C8-N7-C5	2.30	107.37	102.99
5	2X	501	GDP	C8-N7-C5	2.30	107.37	102.99
5	1H	501	GDP	C5-C6-N1	2.30	118.01	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	3S	501	GDP	C5-C6-N1	2.30	118.01	113.95
5	1Y	501	GDP	C8-N7-C5	2.30	107.37	102.99
5	4O	501	GDP	C8-N7-C5	2.30	107.37	102.99
5	4Q	501	GDP	C5-C6-N1	2.30	118.01	113.95
5	4H	501	GDP	C8-N7-C5	2.30	107.37	102.99
5	3X	501	GDP	C8-N7-C5	2.30	107.36	102.99
5	2W	501	GDP	C8-N7-C5	2.30	107.36	102.99
5	3Z	501	GDP	C8-N7-C5	2.30	107.36	102.99
5	2R	501	GDP	C5-C6-N1	2.30	118.01	113.95
5	4V	501	GDP	C5-C6-N1	2.30	118.01	113.95
5	3V	501	GDP	C8-N7-C5	2.30	107.36	102.99
5	1O	501	GDP	C5-C6-N1	2.29	118.00	113.95
5	2Z	501	GDP	C5-C6-N1	2.29	118.00	113.95
5	1X	501	GDP	C5-C6-N1	2.29	118.00	113.95
5	1O	501	GDP	C8-N7-C5	2.29	107.36	102.99
5	4Y	501	GDP	C5-C6-N1	2.29	118.00	113.95
5	1U	501	GDP	C8-N7-C5	2.29	107.36	102.99
5	1Y	501	GDP	C5-C6-N1	2.29	118.00	113.95
5	2V	501	GDP	C5-C6-N1	2.29	118.00	113.95
5	1V	501	GDP	C8-N7-C5	2.29	107.36	102.99
5	3O	501	GDP	C8-N7-C5	2.29	107.36	102.99
5	4S	501	GDP	C5-C6-N1	2.29	118.00	113.95
5	1S	501	GDP	C8-N7-C5	2.29	107.36	102.99
5	4Z	501	GDP	C8-N7-C5	2.29	107.36	102.99
5	3S	501	GDP	C8-N7-C5	2.29	107.35	102.99
5	4X	501	GDP	C5-C6-N1	2.29	117.99	113.95
5	2P	501	GDP	C5-C6-N1	2.29	117.99	113.95
5	4Z	501	GDP	C5-C6-N1	2.29	117.99	113.95
5	3P	501	GDP	C8-N7-C5	2.29	107.35	102.99
5	4Y	501	GDP	C8-N7-C5	2.29	107.35	102.99
5	1Q	501	GDP	C5-C6-N1	2.29	117.99	113.95
5	2T	501	GDP	C5-C6-N1	2.29	117.99	113.95
5	1W	501	GDP	C5-C6-N1	2.29	117.99	113.95
5	4P	501	GDP	C5-C6-N1	2.29	117.99	113.95
5	3X	501	GDP	C5-C6-N1	2.29	117.99	113.95
5	1W	501	GDP	C8-N7-C5	2.29	107.34	102.99
5	1T	501	GDP	C8-N7-C5	2.28	107.34	102.99
5	2P	501	GDP	C8-N7-C5	2.28	107.34	102.99
5	2Y	501	GDP	C8-N7-C5	2.28	107.34	102.99
5	4U	501	GDP	C8-N7-C5	2.28	107.34	102.99
5	2U	501	GDP	C5-C6-N1	2.28	117.99	113.95
5	3P	501	GDP	C5-C6-N1	2.28	117.99	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	3R	501	GDP	C8-N7-C5	2.28	107.34	102.99
5	3Y	501	GDP	C8-N7-C5	2.28	107.34	102.99
5	3W	501	GDP	C8-N7-C5	2.28	107.34	102.99
5	2T	501	GDP	C8-N7-C5	2.28	107.34	102.99
5	4Q	501	GDP	C8-N7-C5	2.28	107.34	102.99
5	1T	501	GDP	C5-C6-N1	2.28	117.98	113.95
5	3U	501	GDP	C5-C6-N1	2.28	117.98	113.95
5	4H	501	GDP	C5-C6-N1	2.28	117.98	113.95
5	1Z	501	GDP	C5-C6-N1	2.28	117.98	113.95
5	4P	501	GDP	C8-N7-C5	2.28	107.33	102.99
5	2H	501	GDP	C5-C6-N1	2.28	117.97	113.95
5	2V	501	GDP	C8-N7-C5	2.28	107.33	102.99
5	3H	501	GDP	C8-N7-C5	2.28	107.33	102.99
5	4T	501	GDP	C8-N7-C5	2.28	107.33	102.99
5	1P	501	GDP	C5-C6-N1	2.28	117.97	113.95
5	2S	501	GDP	C5-C6-N1	2.28	117.97	113.95
5	4U	501	GDP	C5-C6-N1	2.28	117.97	113.95
5	3H	501	GDP	C5-C6-N1	2.27	117.96	113.95
5	2O	501	GDP	C5-C6-N1	2.27	117.96	113.95
5	4O	501	GDP	C5-C6-N1	2.27	117.96	113.95
5	1U	501	GDP	C5-C6-N1	2.27	117.96	113.95
5	2W	501	GDP	C5-C6-N1	2.27	117.96	113.95
5	3Q	501	GDP	C8-N7-C5	2.27	107.31	102.99
5	2S	501	GDP	C8-N7-C5	2.27	107.31	102.99
5	2Z	501	GDP	C8-N7-C5	2.27	107.31	102.99
5	1V	501	GDP	C5-C6-N1	2.27	117.95	113.95
5	3R	501	GDP	C5-C6-N1	2.27	117.95	113.95
5	3Z	501	GDP	C5-C6-N1	2.26	117.95	113.95
5	3T	501	GDP	C8-N7-C5	2.26	107.30	102.99
5	4X	501	GDP	C8-N7-C5	2.26	107.30	102.99
5	4W	501	GDP	C5-C6-N1	2.26	117.95	113.95
5	1P	501	GDP	C8-N7-C5	2.26	107.30	102.99
5	1S	501	GDP	C5-C6-N1	2.26	117.94	113.95
5	3Q	501	GDP	C5-C6-N1	2.26	117.94	113.95
5	3Y	501	GDP	C5-C6-N1	2.26	117.94	113.95
5	3T	501	GDP	C5-C6-N1	2.26	117.94	113.95
5	2X	501	GDP	C5-C6-N1	2.26	117.94	113.95
5	3W	501	GDP	C5-C6-N1	2.25	117.93	113.95
5	4T	501	GDP	C5-C6-N1	2.25	117.92	113.95
3	4N	501	GTP	O6-C6-C5	-2.04	120.39	124.37
3	4I	501	GTP	O6-C6-C5	-2.04	120.39	124.37
3	4F	501	GTP	O6-C6-C5	-2.04	120.39	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	4C	501	GTP	O6-C6-C5	-2.03	120.41	124.37
3	1M	501	GTP	O6-C6-C5	-2.03	120.41	124.37
3	3J	501	GTP	O6-C6-C5	-2.02	120.42	124.37
3	1K	501	GTP	O6-C6-C5	-2.02	120.42	124.37
3	2A	501	GTP	O6-C6-C5	-2.02	120.42	124.37
3	3K	501	GTP	O6-C6-C5	-2.02	120.42	124.37
3	1A	501	GTP	O6-C6-C5	-2.02	120.43	124.37
3	1B	501	GTP	O6-C6-C5	-2.02	120.43	124.37
3	3E	501	GTP	O6-C6-C5	-2.02	120.43	124.37
3	4D	501	GTP	O6-C6-C5	-2.02	120.43	124.37
3	4K	501	GTP	O6-C6-C5	-2.02	120.43	124.37
3	1N	501	GTP	O6-C6-C5	-2.02	120.44	124.37
3	1D	501	GTP	O6-C6-C5	-2.01	120.44	124.37
3	4E	501	GTP	O6-C6-C5	-2.01	120.44	124.37
3	3M	501	GTP	O6-C6-C5	-2.01	120.44	124.37
3	2F	501	GTP	O6-C6-C5	-2.01	120.44	124.37
3	3G	501	GTP	O6-C6-C5	-2.01	120.44	124.37
3	2M	501	GTP	O6-C6-C5	-2.01	120.44	124.37
3	4A	501	GTP	O6-C6-C5	-2.01	120.44	124.37
3	2K	501	GTP	O6-C6-C5	-2.01	120.44	124.37
3	3D	501	GTP	O6-C6-C5	-2.01	120.44	124.37
3	3L	501	GTP	O6-C6-C5	-2.01	120.44	124.37
3	2C	501	GTP	O6-C6-C5	-2.01	120.45	124.37
3	2E	501	GTP	O6-C6-C5	-2.01	120.45	124.37
3	3I	501	GTP	O6-C6-C5	-2.01	120.45	124.37
3	2J	501	GTP	O6-C6-C5	-2.01	120.45	124.37
3	1F	501	GTP	O6-C6-C5	-2.01	120.45	124.37
3	3N	501	GTP	O6-C6-C5	-2.00	120.46	124.37
3	1E	501	GTP	O6-C6-C5	-2.00	120.47	124.37
3	2L	501	GTP	O6-C6-C5	-2.00	120.47	124.37

There are no chirality outliers.

All (520) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	1A	501	GTP	C5'-O5'-PA-O1A
3	1B	501	GTP	C5'-O5'-PA-O1A
3	1C	501	GTP	C5'-O5'-PA-O1A
3	1D	501	GTP	C5'-O5'-PA-O1A
3	1E	501	GTP	C5'-O5'-PA-O1A
3	1F	501	GTP	C5'-O5'-PA-O1A
3	1G	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
3	1I	501	GTP	C5'-O5'-PA-O1A
3	1J	501	GTP	C5'-O5'-PA-O1A
3	1K	501	GTP	C5'-O5'-PA-O1A
3	1L	501	GTP	C5'-O5'-PA-O1A
3	1M	501	GTP	C5'-O5'-PA-O1A
3	1N	501	GTP	C5'-O5'-PA-O1A
3	2A	501	GTP	C5'-O5'-PA-O1A
3	2B	501	GTP	C5'-O5'-PA-O1A
3	2C	501	GTP	C5'-O5'-PA-O1A
3	2D	501	GTP	C5'-O5'-PA-O1A
3	2E	501	GTP	C5'-O5'-PA-O1A
3	2F	501	GTP	C5'-O5'-PA-O1A
3	2G	501	GTP	C5'-O5'-PA-O1A
3	2I	501	GTP	C5'-O5'-PA-O1A
3	2J	501	GTP	C5'-O5'-PA-O1A
3	2K	501	GTP	C5'-O5'-PA-O1A
3	2L	501	GTP	C5'-O5'-PA-O1A
3	2M	501	GTP	C5'-O5'-PA-O1A
3	2N	501	GTP	C5'-O5'-PA-O1A
3	3A	501	GTP	C5'-O5'-PA-O1A
3	3B	501	GTP	C5'-O5'-PA-O1A
3	3C	501	GTP	C5'-O5'-PA-O1A
3	3D	501	GTP	C5'-O5'-PA-O1A
3	3E	501	GTP	C5'-O5'-PA-O1A
3	3F	501	GTP	C5'-O5'-PA-O1A
3	3G	501	GTP	C5'-O5'-PA-O1A
3	3I	501	GTP	C5'-O5'-PA-O1A
3	3J	501	GTP	C5'-O5'-PA-O1A
3	3K	501	GTP	C5'-O5'-PA-O1A
3	3L	501	GTP	C5'-O5'-PA-O1A
3	3M	501	GTP	C5'-O5'-PA-O1A
3	3N	501	GTP	C5'-O5'-PA-O1A
3	4A	501	GTP	C5'-O5'-PA-O1A
3	4B	501	GTP	C5'-O5'-PA-O1A
3	4C	501	GTP	C5'-O5'-PA-O1A
3	4D	501	GTP	C5'-O5'-PA-O1A
3	4E	501	GTP	C5'-O5'-PA-O1A
3	4F	501	GTP	C5'-O5'-PA-O1A
3	4G	501	GTP	C5'-O5'-PA-O1A
3	4I	501	GTP	C5'-O5'-PA-O1A
3	4J	501	GTP	C5'-O5'-PA-O1A
3	4K	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
3	4L	501	GTP	C5'-O5'-PA-O1A
3	4M	501	GTP	C5'-O5'-PA-O1A
3	4N	501	GTP	C5'-O5'-PA-O1A
5	1H	501	GDP	C5'-O5'-PA-O1A
5	1O	501	GDP	C5'-O5'-PA-O1A
5	1P	501	GDP	C5'-O5'-PA-O1A
5	1Q	501	GDP	C5'-O5'-PA-O1A
5	1R	501	GDP	C5'-O5'-PA-O1A
5	1S	501	GDP	C5'-O5'-PA-O1A
5	1T	501	GDP	C5'-O5'-PA-O1A
5	1U	501	GDP	C5'-O5'-PA-O1A
5	1V	501	GDP	C5'-O5'-PA-O1A
5	1W	501	GDP	C5'-O5'-PA-O1A
5	1X	501	GDP	C5'-O5'-PA-O1A
5	1Y	501	GDP	C5'-O5'-PA-O1A
5	1Z	501	GDP	C5'-O5'-PA-O1A
5	2H	501	GDP	C5'-O5'-PA-O1A
5	2O	501	GDP	C5'-O5'-PA-O1A
5	2P	501	GDP	C5'-O5'-PA-O1A
5	2Q	501	GDP	C5'-O5'-PA-O1A
5	2R	501	GDP	C5'-O5'-PA-O1A
5	2S	501	GDP	C5'-O5'-PA-O1A
5	2T	501	GDP	C5'-O5'-PA-O1A
5	2U	501	GDP	C5'-O5'-PA-O1A
5	2V	501	GDP	C5'-O5'-PA-O1A
5	2W	501	GDP	C5'-O5'-PA-O1A
5	2X	501	GDP	C5'-O5'-PA-O1A
5	2Y	501	GDP	C5'-O5'-PA-O1A
5	2Z	501	GDP	C5'-O5'-PA-O1A
5	3H	501	GDP	C5'-O5'-PA-O1A
5	3O	501	GDP	C5'-O5'-PA-O1A
5	3P	501	GDP	C5'-O5'-PA-O1A
5	3Q	501	GDP	C5'-O5'-PA-O1A
5	3R	501	GDP	C5'-O5'-PA-O1A
5	3S	501	GDP	C5'-O5'-PA-O1A
5	3T	501	GDP	C5'-O5'-PA-O1A
5	3U	501	GDP	C5'-O5'-PA-O1A
5	3V	501	GDP	C5'-O5'-PA-O1A
5	3W	501	GDP	C5'-O5'-PA-O1A
5	3X	501	GDP	C5'-O5'-PA-O1A
5	3Y	501	GDP	C5'-O5'-PA-O1A
5	3Z	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
5	4H	501	GDP	C5'-O5'-PA-O1A
5	4O	501	GDP	C5'-O5'-PA-O1A
5	4P	501	GDP	C5'-O5'-PA-O1A
5	4Q	501	GDP	C5'-O5'-PA-O1A
5	4R	501	GDP	C5'-O5'-PA-O1A
5	4S	501	GDP	C5'-O5'-PA-O1A
5	4T	501	GDP	C5'-O5'-PA-O1A
5	4U	501	GDP	C5'-O5'-PA-O1A
5	4V	501	GDP	C5'-O5'-PA-O1A
5	4W	501	GDP	C5'-O5'-PA-O1A
5	4X	501	GDP	C5'-O5'-PA-O1A
5	4Y	501	GDP	C5'-O5'-PA-O1A
5	4Z	501	GDP	C5'-O5'-PA-O1A
3	1A	501	GTP	C3'-C4'-C5'-O5'
3	1B	501	GTP	C3'-C4'-C5'-O5'
3	1C	501	GTP	C3'-C4'-C5'-O5'
3	1D	501	GTP	C3'-C4'-C5'-O5'
3	1E	501	GTP	C3'-C4'-C5'-O5'
3	1F	501	GTP	C3'-C4'-C5'-O5'
3	1G	501	GTP	C3'-C4'-C5'-O5'
3	1I	501	GTP	C3'-C4'-C5'-O5'
3	1J	501	GTP	C3'-C4'-C5'-O5'
3	1K	501	GTP	C3'-C4'-C5'-O5'
3	1L	501	GTP	C3'-C4'-C5'-O5'
3	1M	501	GTP	C3'-C4'-C5'-O5'
3	1N	501	GTP	C3'-C4'-C5'-O5'
3	2A	501	GTP	C3'-C4'-C5'-O5'
3	2B	501	GTP	C3'-C4'-C5'-O5'
3	2C	501	GTP	C3'-C4'-C5'-O5'
3	2D	501	GTP	C3'-C4'-C5'-O5'
3	2E	501	GTP	C3'-C4'-C5'-O5'
3	2F	501	GTP	C3'-C4'-C5'-O5'
3	2G	501	GTP	C3'-C4'-C5'-O5'
3	2I	501	GTP	C3'-C4'-C5'-O5'
3	2J	501	GTP	C3'-C4'-C5'-O5'
3	2K	501	GTP	C3'-C4'-C5'-O5'
3	2L	501	GTP	C3'-C4'-C5'-O5'
3	2M	501	GTP	C3'-C4'-C5'-O5'
3	2N	501	GTP	C3'-C4'-C5'-O5'
3	3A	501	GTP	C3'-C4'-C5'-O5'
3	3B	501	GTP	C3'-C4'-C5'-O5'
3	3C	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
3	3D	501	GTP	C3'-C4'-C5'-O5'
3	3E	501	GTP	C3'-C4'-C5'-O5'
3	3F	501	GTP	C3'-C4'-C5'-O5'
3	3G	501	GTP	C3'-C4'-C5'-O5'
3	3I	501	GTP	C3'-C4'-C5'-O5'
3	3J	501	GTP	C3'-C4'-C5'-O5'
3	3K	501	GTP	C3'-C4'-C5'-O5'
3	3L	501	GTP	C3'-C4'-C5'-O5'
3	3M	501	GTP	C3'-C4'-C5'-O5'
3	3N	501	GTP	C3'-C4'-C5'-O5'
3	4A	501	GTP	C3'-C4'-C5'-O5'
3	4B	501	GTP	C3'-C4'-C5'-O5'
3	4C	501	GTP	C3'-C4'-C5'-O5'
3	4D	501	GTP	C3'-C4'-C5'-O5'
3	4E	501	GTP	C3'-C4'-C5'-O5'
3	4F	501	GTP	C3'-C4'-C5'-O5'
3	4G	501	GTP	C3'-C4'-C5'-O5'
3	4I	501	GTP	C3'-C4'-C5'-O5'
3	4J	501	GTP	C3'-C4'-C5'-O5'
3	4K	501	GTP	C3'-C4'-C5'-O5'
3	4L	501	GTP	C3'-C4'-C5'-O5'
3	4M	501	GTP	C3'-C4'-C5'-O5'
3	4N	501	GTP	C3'-C4'-C5'-O5'
3	1A	501	GTP	O4'-C4'-C5'-O5'
3	1B	501	GTP	O4'-C4'-C5'-O5'
3	1C	501	GTP	O4'-C4'-C5'-O5'
3	1D	501	GTP	O4'-C4'-C5'-O5'
3	1E	501	GTP	O4'-C4'-C5'-O5'
3	1F	501	GTP	O4'-C4'-C5'-O5'
3	1G	501	GTP	O4'-C4'-C5'-O5'
3	1I	501	GTP	O4'-C4'-C5'-O5'
3	1J	501	GTP	O4'-C4'-C5'-O5'
3	1K	501	GTP	O4'-C4'-C5'-O5'
3	1L	501	GTP	O4'-C4'-C5'-O5'
3	1M	501	GTP	O4'-C4'-C5'-O5'
3	1N	501	GTP	O4'-C4'-C5'-O5'
3	2A	501	GTP	O4'-C4'-C5'-O5'
3	2B	501	GTP	O4'-C4'-C5'-O5'
3	2C	501	GTP	O4'-C4'-C5'-O5'
3	2D	501	GTP	O4'-C4'-C5'-O5'
3	2E	501	GTP	O4'-C4'-C5'-O5'
3	2F	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
3	2G	501	GTP	O4'-C4'-C5'-O5'
3	2I	501	GTP	O4'-C4'-C5'-O5'
3	2J	501	GTP	O4'-C4'-C5'-O5'
3	2K	501	GTP	O4'-C4'-C5'-O5'
3	2L	501	GTP	O4'-C4'-C5'-O5'
3	2M	501	GTP	O4'-C4'-C5'-O5'
3	2N	501	GTP	O4'-C4'-C5'-O5'
3	3A	501	GTP	O4'-C4'-C5'-O5'
3	3B	501	GTP	O4'-C4'-C5'-O5'
3	3C	501	GTP	O4'-C4'-C5'-O5'
3	3D	501	GTP	O4'-C4'-C5'-O5'
3	3E	501	GTP	O4'-C4'-C5'-O5'
3	3F	501	GTP	O4'-C4'-C5'-O5'
3	3G	501	GTP	O4'-C4'-C5'-O5'
3	3I	501	GTP	O4'-C4'-C5'-O5'
3	3J	501	GTP	O4'-C4'-C5'-O5'
3	3K	501	GTP	O4'-C4'-C5'-O5'
3	3L	501	GTP	O4'-C4'-C5'-O5'
3	3M	501	GTP	O4'-C4'-C5'-O5'
3	3N	501	GTP	O4'-C4'-C5'-O5'
3	4A	501	GTP	O4'-C4'-C5'-O5'
3	4B	501	GTP	O4'-C4'-C5'-O5'
3	4C	501	GTP	O4'-C4'-C5'-O5'
3	4D	501	GTP	O4'-C4'-C5'-O5'
3	4E	501	GTP	O4'-C4'-C5'-O5'
3	4F	501	GTP	O4'-C4'-C5'-O5'
3	4G	501	GTP	O4'-C4'-C5'-O5'
3	4I	501	GTP	O4'-C4'-C5'-O5'
3	4J	501	GTP	O4'-C4'-C5'-O5'
3	4K	501	GTP	O4'-C4'-C5'-O5'
3	4L	501	GTP	O4'-C4'-C5'-O5'
3	4M	501	GTP	O4'-C4'-C5'-O5'
3	4N	501	GTP	O4'-C4'-C5'-O5'
3	1A	501	GTP	PB-O3A-PA-O1A
3	1B	501	GTP	PB-O3A-PA-O1A
3	1C	501	GTP	PB-O3A-PA-O1A
3	1D	501	GTP	PB-O3A-PA-O1A
3	1E	501	GTP	PB-O3A-PA-O1A
3	1F	501	GTP	PB-O3A-PA-O1A
3	1G	501	GTP	PB-O3A-PA-O1A
3	1I	501	GTP	PB-O3A-PA-O1A
3	1J	501	GTP	PB-O3A-PA-O1A

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Mol	Chain	Res	Type	Atoms
3	1K	501	GTP	PB-O3A-PA-O1A
3	1L	501	GTP	PB-O3A-PA-O1A
3	1M	501	GTP	PB-O3A-PA-O1A
3	1N	501	GTP	PB-O3A-PA-O1A
3	2A	501	GTP	PB-O3A-PA-O1A
3	2B	501	GTP	PB-O3A-PA-O1A
3	2C	501	GTP	PB-O3A-PA-O1A
3	2D	501	GTP	PB-O3A-PA-O1A
3	2E	501	GTP	PB-O3A-PA-O1A
3	2F	501	GTP	PB-O3A-PA-O1A
3	2G	501	GTP	PB-O3A-PA-O1A
3	2I	501	GTP	PB-O3A-PA-O1A
3	2J	501	GTP	PB-O3A-PA-O1A
3	2K	501	GTP	PB-O3A-PA-O1A
3	2L	501	GTP	PB-O3A-PA-O1A
3	2M	501	GTP	PB-O3A-PA-O1A
3	2N	501	GTP	PB-O3A-PA-O1A
3	3A	501	GTP	PB-O3A-PA-O1A
3	3B	501	GTP	PB-O3A-PA-O1A
3	3C	501	GTP	PB-O3A-PA-O1A
3	3D	501	GTP	PB-O3A-PA-O1A
3	3E	501	GTP	PB-O3A-PA-O1A
3	3F	501	GTP	PB-O3A-PA-O1A
3	3G	501	GTP	PB-O3A-PA-O1A
3	3I	501	GTP	PB-O3A-PA-O1A
3	3J	501	GTP	PB-O3A-PA-O1A
3	3K	501	GTP	PB-O3A-PA-O1A
3	3L	501	GTP	PB-O3A-PA-O1A
3	3M	501	GTP	PB-O3A-PA-O1A
3	3N	501	GTP	PB-O3A-PA-O1A
3	4A	501	GTP	PB-O3A-PA-O1A
3	4B	501	GTP	PB-O3A-PA-O1A
3	4C	501	GTP	PB-O3A-PA-O1A
3	4D	501	GTP	PB-O3A-PA-O1A
3	4E	501	GTP	PB-O3A-PA-O1A
3	4F	501	GTP	PB-O3A-PA-O1A
3	4G	501	GTP	PB-O3A-PA-O1A
3	4I	501	GTP	PB-O3A-PA-O1A
3	4J	501	GTP	PB-O3A-PA-O1A
3	4K	501	GTP	PB-O3A-PA-O1A
3	4L	501	GTP	PB-O3A-PA-O1A
3	4M	501	GTP	PB-O3A-PA-O1A

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Mol	Chain	Res	Type	Atoms
3	4N	501	GTP	PB-O3A-PA-O1A
3	1A	501	GTP	C5'-O5'-PA-O3A
3	1B	501	GTP	C5'-O5'-PA-O3A
3	1C	501	GTP	C5'-O5'-PA-O3A
3	1D	501	GTP	C5'-O5'-PA-O3A
3	1E	501	GTP	C5'-O5'-PA-O3A
3	1F	501	GTP	C5'-O5'-PA-O3A
3	1G	501	GTP	C5'-O5'-PA-O3A
3	1I	501	GTP	C5'-O5'-PA-O3A
3	1J	501	GTP	C5'-O5'-PA-O3A
3	1K	501	GTP	C5'-O5'-PA-O3A
3	1L	501	GTP	C5'-O5'-PA-O3A
3	1M	501	GTP	C5'-O5'-PA-O3A
3	1N	501	GTP	C5'-O5'-PA-O3A
3	2A	501	GTP	C5'-O5'-PA-O3A
3	2B	501	GTP	C5'-O5'-PA-O3A
3	2C	501	GTP	C5'-O5'-PA-O3A
3	2D	501	GTP	C5'-O5'-PA-O3A
3	2E	501	GTP	C5'-O5'-PA-O3A
3	2F	501	GTP	C5'-O5'-PA-O3A
3	2G	501	GTP	C5'-O5'-PA-O3A
3	2I	501	GTP	C5'-O5'-PA-O3A
3	2J	501	GTP	C5'-O5'-PA-O3A
3	2K	501	GTP	C5'-O5'-PA-O3A
3	2L	501	GTP	C5'-O5'-PA-O3A
3	2M	501	GTP	C5'-O5'-PA-O3A
3	2N	501	GTP	C5'-O5'-PA-O3A
3	3A	501	GTP	C5'-O5'-PA-O3A
3	3B	501	GTP	C5'-O5'-PA-O3A
3	3C	501	GTP	C5'-O5'-PA-O3A
3	3D	501	GTP	C5'-O5'-PA-O3A
3	3E	501	GTP	C5'-O5'-PA-O3A
3	3F	501	GTP	C5'-O5'-PA-O3A
3	3G	501	GTP	C5'-O5'-PA-O3A
3	3I	501	GTP	C5'-O5'-PA-O3A
3	3J	501	GTP	C5'-O5'-PA-O3A
3	3K	501	GTP	C5'-O5'-PA-O3A
3	3L	501	GTP	C5'-O5'-PA-O3A
3	3M	501	GTP	C5'-O5'-PA-O3A
3	3N	501	GTP	C5'-O5'-PA-O3A
3	4A	501	GTP	C5'-O5'-PA-O3A
3	4B	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
3	4C	501	GTP	C5'-O5'-PA-O3A
3	4D	501	GTP	C5'-O5'-PA-O3A
3	4E	501	GTP	C5'-O5'-PA-O3A
3	4F	501	GTP	C5'-O5'-PA-O3A
3	4G	501	GTP	C5'-O5'-PA-O3A
3	4I	501	GTP	C5'-O5'-PA-O3A
3	4J	501	GTP	C5'-O5'-PA-O3A
3	4K	501	GTP	C5'-O5'-PA-O3A
3	4L	501	GTP	C5'-O5'-PA-O3A
3	4M	501	GTP	C5'-O5'-PA-O3A
3	4N	501	GTP	C5'-O5'-PA-O3A
5	1H	501	GDP	C5'-O5'-PA-O3A
5	1O	501	GDP	C5'-O5'-PA-O3A
5	1P	501	GDP	C5'-O5'-PA-O3A
5	1Q	501	GDP	C5'-O5'-PA-O3A
5	1R	501	GDP	C5'-O5'-PA-O3A
5	1S	501	GDP	C5'-O5'-PA-O3A
5	1T	501	GDP	C5'-O5'-PA-O3A
5	1U	501	GDP	C5'-O5'-PA-O3A
5	1V	501	GDP	C5'-O5'-PA-O3A
5	1W	501	GDP	C5'-O5'-PA-O3A
5	1X	501	GDP	C5'-O5'-PA-O3A
5	1Y	501	GDP	C5'-O5'-PA-O3A
5	1Z	501	GDP	C5'-O5'-PA-O3A
5	2H	501	GDP	C5'-O5'-PA-O3A
5	2O	501	GDP	C5'-O5'-PA-O3A
5	2P	501	GDP	C5'-O5'-PA-O3A
5	2Q	501	GDP	C5'-O5'-PA-O3A
5	2R	501	GDP	C5'-O5'-PA-O3A
5	2S	501	GDP	C5'-O5'-PA-O3A
5	2T	501	GDP	C5'-O5'-PA-O3A
5	2U	501	GDP	C5'-O5'-PA-O3A
5	2V	501	GDP	C5'-O5'-PA-O3A
5	2W	501	GDP	C5'-O5'-PA-O3A
5	2X	501	GDP	C5'-O5'-PA-O3A
5	2Y	501	GDP	C5'-O5'-PA-O3A
5	2Z	501	GDP	C5'-O5'-PA-O3A
5	3H	501	GDP	C5'-O5'-PA-O3A
5	3O	501	GDP	C5'-O5'-PA-O3A
5	3P	501	GDP	C5'-O5'-PA-O3A
5	3Q	501	GDP	C5'-O5'-PA-O3A
5	3R	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
5	3S	501	GDP	C5'-O5'-PA-O3A
5	3T	501	GDP	C5'-O5'-PA-O3A
5	3U	501	GDP	C5'-O5'-PA-O3A
5	3V	501	GDP	C5'-O5'-PA-O3A
5	3W	501	GDP	C5'-O5'-PA-O3A
5	3X	501	GDP	C5'-O5'-PA-O3A
5	3Y	501	GDP	C5'-O5'-PA-O3A
5	3Z	501	GDP	C5'-O5'-PA-O3A
5	4H	501	GDP	C5'-O5'-PA-O3A
5	4O	501	GDP	C5'-O5'-PA-O3A
5	4P	501	GDP	C5'-O5'-PA-O3A
5	4Q	501	GDP	C5'-O5'-PA-O3A
5	4R	501	GDP	C5'-O5'-PA-O3A
5	4S	501	GDP	C5'-O5'-PA-O3A
5	4T	501	GDP	C5'-O5'-PA-O3A
5	4U	501	GDP	C5'-O5'-PA-O3A
5	4V	501	GDP	C5'-O5'-PA-O3A
5	4W	501	GDP	C5'-O5'-PA-O3A
5	4X	501	GDP	C5'-O5'-PA-O3A
5	4Y	501	GDP	C5'-O5'-PA-O3A
5	4Z	501	GDP	C5'-O5'-PA-O3A
3	1A	501	GTP	C4'-C5'-O5'-PA
3	1B	501	GTP	C4'-C5'-O5'-PA
3	1C	501	GTP	C4'-C5'-O5'-PA
3	1D	501	GTP	C4'-C5'-O5'-PA
3	1E	501	GTP	C4'-C5'-O5'-PA
3	1F	501	GTP	C4'-C5'-O5'-PA
3	1G	501	GTP	C4'-C5'-O5'-PA
3	1I	501	GTP	C4'-C5'-O5'-PA
3	1J	501	GTP	C4'-C5'-O5'-PA
3	1K	501	GTP	C4'-C5'-O5'-PA
3	1L	501	GTP	C4'-C5'-O5'-PA
3	1M	501	GTP	C4'-C5'-O5'-PA
3	1N	501	GTP	C4'-C5'-O5'-PA
3	2A	501	GTP	C4'-C5'-O5'-PA
3	2B	501	GTP	C4'-C5'-O5'-PA
3	2C	501	GTP	C4'-C5'-O5'-PA
3	2D	501	GTP	C4'-C5'-O5'-PA
3	2E	501	GTP	C4'-C5'-O5'-PA
3	2F	501	GTP	C4'-C5'-O5'-PA
3	2G	501	GTP	C4'-C5'-O5'-PA
3	2I	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
3	2J	501	GTP	C4'-C5'-O5'-PA
3	2K	501	GTP	C4'-C5'-O5'-PA
3	2L	501	GTP	C4'-C5'-O5'-PA
3	2M	501	GTP	C4'-C5'-O5'-PA
3	2N	501	GTP	C4'-C5'-O5'-PA
3	3A	501	GTP	C4'-C5'-O5'-PA
3	3B	501	GTP	C4'-C5'-O5'-PA
3	3C	501	GTP	C4'-C5'-O5'-PA
3	3D	501	GTP	C4'-C5'-O5'-PA
3	3E	501	GTP	C4'-C5'-O5'-PA
3	3F	501	GTP	C4'-C5'-O5'-PA
3	3G	501	GTP	C4'-C5'-O5'-PA
3	3I	501	GTP	C4'-C5'-O5'-PA
3	3J	501	GTP	C4'-C5'-O5'-PA
3	3K	501	GTP	C4'-C5'-O5'-PA
3	3L	501	GTP	C4'-C5'-O5'-PA
3	3M	501	GTP	C4'-C5'-O5'-PA
3	3N	501	GTP	C4'-C5'-O5'-PA
3	4A	501	GTP	C4'-C5'-O5'-PA
3	4B	501	GTP	C4'-C5'-O5'-PA
3	4C	501	GTP	C4'-C5'-O5'-PA
3	4D	501	GTP	C4'-C5'-O5'-PA
3	4E	501	GTP	C4'-C5'-O5'-PA
3	4F	501	GTP	C4'-C5'-O5'-PA
3	4G	501	GTP	C4'-C5'-O5'-PA
3	4I	501	GTP	C4'-C5'-O5'-PA
3	4J	501	GTP	C4'-C5'-O5'-PA
3	4K	501	GTP	C4'-C5'-O5'-PA
3	4L	501	GTP	C4'-C5'-O5'-PA
3	4M	501	GTP	C4'-C5'-O5'-PA
3	4N	501	GTP	C4'-C5'-O5'-PA
3	1A	501	GTP	C5'-O5'-PA-O2A
3	1B	501	GTP	C5'-O5'-PA-O2A
3	1C	501	GTP	C5'-O5'-PA-O2A
3	1D	501	GTP	C5'-O5'-PA-O2A
3	1E	501	GTP	C5'-O5'-PA-O2A
3	1F	501	GTP	C5'-O5'-PA-O2A
3	1G	501	GTP	C5'-O5'-PA-O2A
3	1I	501	GTP	C5'-O5'-PA-O2A
3	1J	501	GTP	C5'-O5'-PA-O2A
3	1K	501	GTP	C5'-O5'-PA-O2A
3	1L	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
3	1M	501	GTP	C5'-O5'-PA-O2A
3	1N	501	GTP	C5'-O5'-PA-O2A
3	2A	501	GTP	C5'-O5'-PA-O2A
3	2B	501	GTP	C5'-O5'-PA-O2A
3	2C	501	GTP	C5'-O5'-PA-O2A
3	2D	501	GTP	C5'-O5'-PA-O2A
3	2E	501	GTP	C5'-O5'-PA-O2A
3	2F	501	GTP	C5'-O5'-PA-O2A
3	2G	501	GTP	C5'-O5'-PA-O2A
3	2I	501	GTP	C5'-O5'-PA-O2A
3	2J	501	GTP	C5'-O5'-PA-O2A
3	2K	501	GTP	C5'-O5'-PA-O2A
3	2L	501	GTP	C5'-O5'-PA-O2A
3	2M	501	GTP	C5'-O5'-PA-O2A
3	2N	501	GTP	C5'-O5'-PA-O2A
3	3A	501	GTP	C5'-O5'-PA-O2A
3	3B	501	GTP	C5'-O5'-PA-O2A
3	3C	501	GTP	C5'-O5'-PA-O2A
3	3D	501	GTP	C5'-O5'-PA-O2A
3	3E	501	GTP	C5'-O5'-PA-O2A
3	3F	501	GTP	C5'-O5'-PA-O2A
3	3G	501	GTP	C5'-O5'-PA-O2A
3	3I	501	GTP	C5'-O5'-PA-O2A
3	3J	501	GTP	C5'-O5'-PA-O2A
3	3K	501	GTP	C5'-O5'-PA-O2A
3	3L	501	GTP	C5'-O5'-PA-O2A
3	3M	501	GTP	C5'-O5'-PA-O2A
3	3N	501	GTP	C5'-O5'-PA-O2A
3	4A	501	GTP	C5'-O5'-PA-O2A
3	4B	501	GTP	C5'-O5'-PA-O2A
3	4C	501	GTP	C5'-O5'-PA-O2A
3	4D	501	GTP	C5'-O5'-PA-O2A
3	4E	501	GTP	C5'-O5'-PA-O2A
3	4F	501	GTP	C5'-O5'-PA-O2A
3	4G	501	GTP	C5'-O5'-PA-O2A
3	4I	501	GTP	C5'-O5'-PA-O2A
3	4J	501	GTP	C5'-O5'-PA-O2A
3	4K	501	GTP	C5'-O5'-PA-O2A
3	4L	501	GTP	C5'-O5'-PA-O2A
3	4M	501	GTP	C5'-O5'-PA-O2A
3	4N	501	GTP	C5'-O5'-PA-O2A
5	1H	501	GDP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
5	1O	501	GDP	C5'-O5'-PA-O2A
5	1P	501	GDP	C5'-O5'-PA-O2A
5	1Q	501	GDP	C5'-O5'-PA-O2A
5	1R	501	GDP	C5'-O5'-PA-O2A
5	1S	501	GDP	C5'-O5'-PA-O2A
5	1T	501	GDP	C5'-O5'-PA-O2A
5	1U	501	GDP	C5'-O5'-PA-O2A
5	1V	501	GDP	C5'-O5'-PA-O2A
5	1W	501	GDP	C5'-O5'-PA-O2A
5	1X	501	GDP	C5'-O5'-PA-O2A
5	1Y	501	GDP	C5'-O5'-PA-O2A
5	1Z	501	GDP	C5'-O5'-PA-O2A
5	2H	501	GDP	C5'-O5'-PA-O2A
5	2O	501	GDP	C5'-O5'-PA-O2A
5	2P	501	GDP	C5'-O5'-PA-O2A
5	2Q	501	GDP	C5'-O5'-PA-O2A
5	2R	501	GDP	C5'-O5'-PA-O2A
5	2S	501	GDP	C5'-O5'-PA-O2A
5	2T	501	GDP	C5'-O5'-PA-O2A
5	2U	501	GDP	C5'-O5'-PA-O2A
5	2V	501	GDP	C5'-O5'-PA-O2A
5	2W	501	GDP	C5'-O5'-PA-O2A
5	2X	501	GDP	C5'-O5'-PA-O2A
5	2Y	501	GDP	C5'-O5'-PA-O2A
5	2Z	501	GDP	C5'-O5'-PA-O2A
5	3H	501	GDP	C5'-O5'-PA-O2A
5	3O	501	GDP	C5'-O5'-PA-O2A
5	3P	501	GDP	C5'-O5'-PA-O2A
5	3Q	501	GDP	C5'-O5'-PA-O2A
5	3R	501	GDP	C5'-O5'-PA-O2A
5	3S	501	GDP	C5'-O5'-PA-O2A
5	3T	501	GDP	C5'-O5'-PA-O2A
5	3U	501	GDP	C5'-O5'-PA-O2A
5	3V	501	GDP	C5'-O5'-PA-O2A
5	3W	501	GDP	C5'-O5'-PA-O2A
5	3X	501	GDP	C5'-O5'-PA-O2A
5	3Y	501	GDP	C5'-O5'-PA-O2A
5	3Z	501	GDP	C5'-O5'-PA-O2A
5	4H	501	GDP	C5'-O5'-PA-O2A
5	4O	501	GDP	C5'-O5'-PA-O2A
5	4P	501	GDP	C5'-O5'-PA-O2A
5	4Q	501	GDP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
5	4R	501	GDP	C5'-O5'-PA-O2A
5	4S	501	GDP	C5'-O5'-PA-O2A
5	4T	501	GDP	C5'-O5'-PA-O2A
5	4U	501	GDP	C5'-O5'-PA-O2A
5	4V	501	GDP	C5'-O5'-PA-O2A
5	4W	501	GDP	C5'-O5'-PA-O2A
5	4X	501	GDP	C5'-O5'-PA-O2A
5	4Y	501	GDP	C5'-O5'-PA-O2A
5	4Z	501	GDP	C5'-O5'-PA-O2A

There are no ring outliers.

104 monomers are involved in 275 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	3X	501	GDP	2	0
5	1R	501	GDP	2	0
3	2I	501	GTP	2	0
5	2S	501	GDP	6	0
3	4J	501	GTP	2	0
3	2M	501	GTP	2	0
5	4X	501	GDP	4	0
5	1X	501	GDP	3	0
5	2T	501	GDP	5	0
3	2A	501	GTP	2	0
3	2C	501	GTP	2	0
3	4D	501	GTP	2	0
3	2D	501	GTP	2	0
5	1V	501	GDP	2	0
3	3C	501	GTP	2	0
5	2O	501	GDP	4	0
3	4L	501	GTP	2	0
5	3P	501	GDP	2	0
3	4E	501	GTP	2	0
3	3M	501	GTP	2	0
3	1N	501	GTP	1	0
5	3W	501	GDP	2	0
5	4W	501	GDP	4	0
5	4R	501	GDP	6	0
5	4U	501	GDP	4	0
3	3I	501	GTP	2	0
5	1O	501	GDP	2	0
5	1H	501	GDP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	4Y	501	GDP	4	0
5	1U	501	GDP	2	0
3	1F	501	GTP	1	0
3	4F	501	GTP	2	0
3	3G	501	GTP	2	0
3	1K	501	GTP	2	0
3	4A	501	GTP	2	0
3	3E	501	GTP	2	0
5	2P	501	GDP	5	0
5	1S	501	GDP	2	0
3	4G	501	GTP	2	0
5	1Y	501	GDP	3	0
5	3T	501	GDP	2	0
3	2E	501	GTP	2	0
3	4C	501	GTP	2	0
5	2Y	501	GDP	3	0
3	1M	501	GTP	2	0
5	3V	501	GDP	2	0
5	2X	501	GDP	4	0
3	3F	501	GTP	1	0
3	3K	501	GTP	2	0
5	4P	501	GDP	7	0
3	3A	501	GTP	2	0
3	3J	501	GTP	2	0
5	1Q	501	GDP	2	0
5	2U	501	GDP	5	0
5	3O	501	GDP	2	0
3	2F	501	GTP	2	0
3	2G	501	GTP	2	0
3	3L	501	GTP	2	0
3	1J	501	GTP	2	0
5	2Z	501	GDP	3	0
5	3H	501	GDP	2	0
5	3U	501	GDP	2	0
3	4B	501	GTP	2	0
3	1A	501	GTP	2	0
5	4Q	501	GDP	6	0
5	2Q	501	GDP	5	0
5	3Z	501	GDP	2	0
3	1G	501	GTP	2	0
3	3D	501	GTP	2	0
3	1C	501	GTP	2	0

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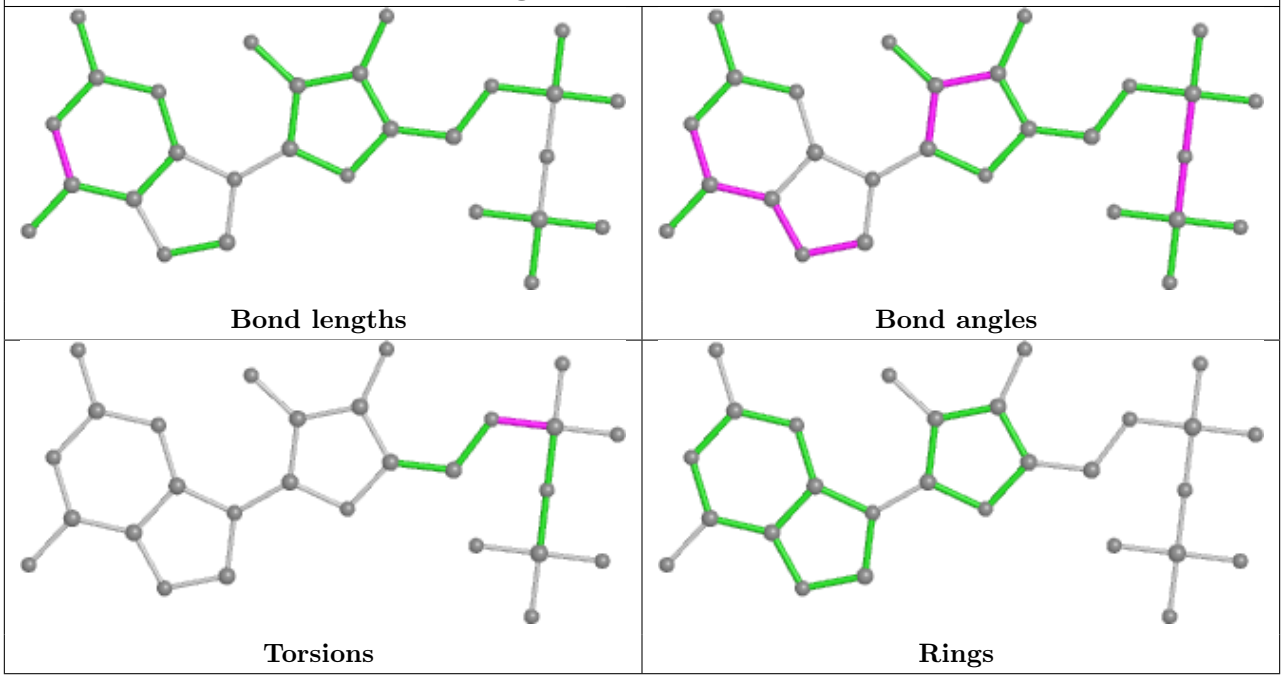
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	1Z	501	GDP	2	0
5	1W	501	GDP	2	0
5	4Z	501	GDP	4	0
3	1B	501	GTP	2	0
3	4I	501	GTP	2	0
3	4K	501	GTP	2	0
3	2J	501	GTP	2	0
5	3Q	501	GDP	2	0
5	2H	501	GDP	3	0
3	2B	501	GTP	2	0
5	4V	501	GDP	4	0
5	1T	501	GDP	2	0
5	4H	501	GDP	5	0
5	2W	501	GDP	4	0
3	3B	501	GTP	2	0
5	2R	501	GDP	6	0
5	3Y	501	GDP	2	0
5	3R	501	GDP	2	0
3	4N	501	GTP	1	0
3	2K	501	GTP	2	0
3	4M	501	GTP	2	0
3	2L	501	GTP	2	0
3	1I	501	GTP	2	0
5	4S	501	GDP	6	0
5	2V	501	GDP	4	0
3	1L	501	GTP	2	0
3	3N	501	GTP	1	0
5	4O	501	GDP	6	0
3	1E	501	GTP	2	0
5	1P	501	GDP	2	0
5	4T	501	GDP	6	0
3	1D	501	GTP	2	0
5	3S	501	GDP	2	0
3	2N	501	GTP	1	0

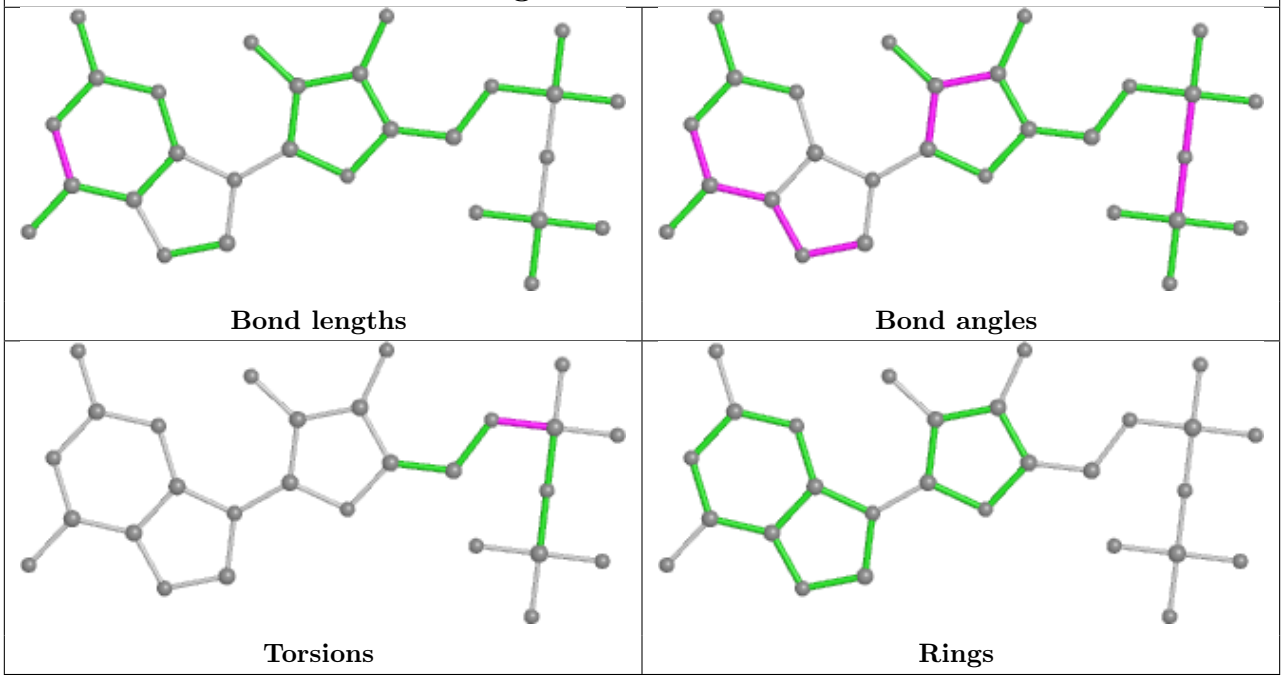
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 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.

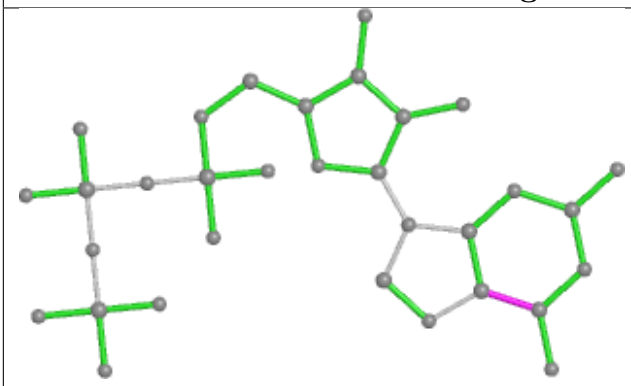
Ligand GDP 3X 501



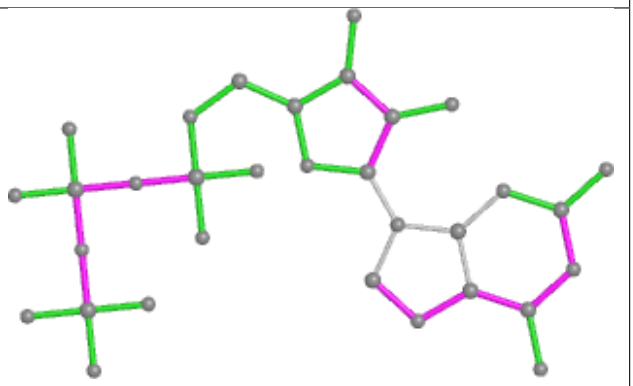
Ligand GDP 1R 501



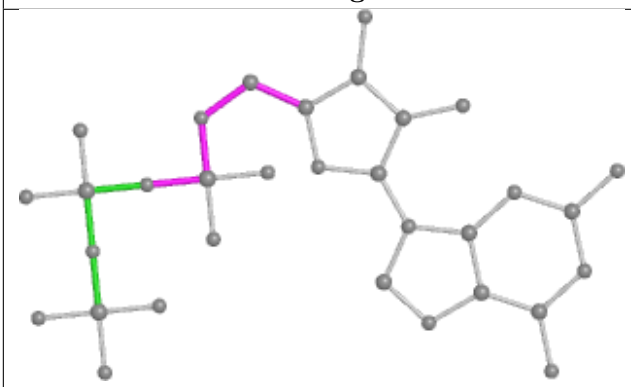
Ligand GTP 2I 501



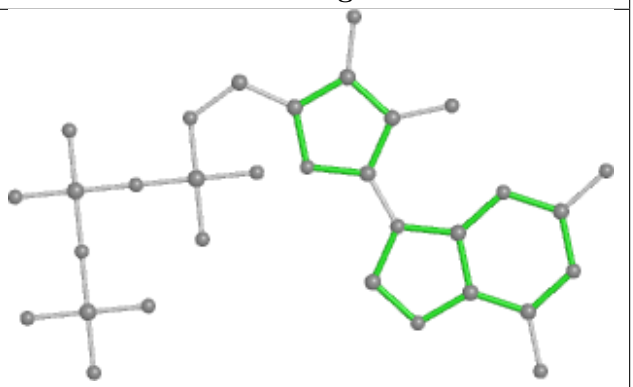
Bond lengths



Bond angles

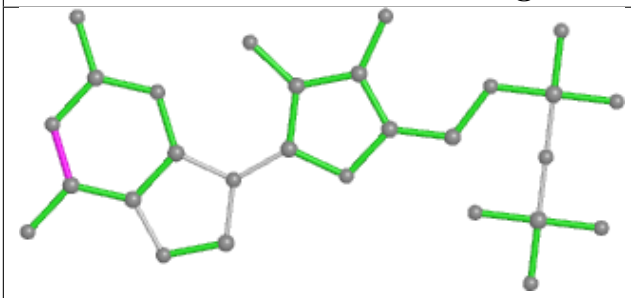


Torsions



Rings

Ligand GDP 2S 501



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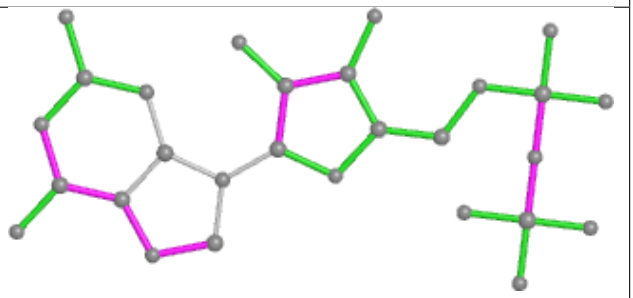

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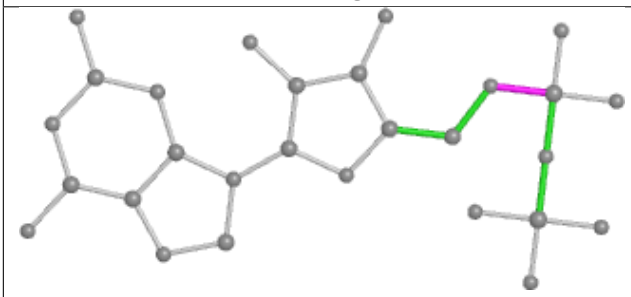

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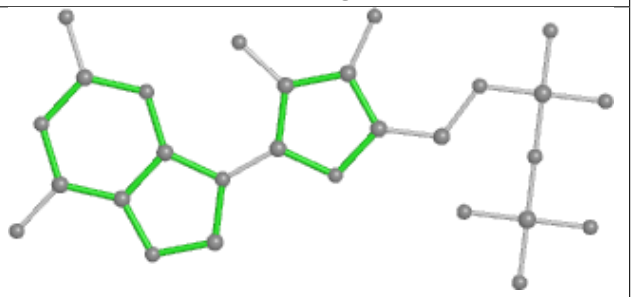
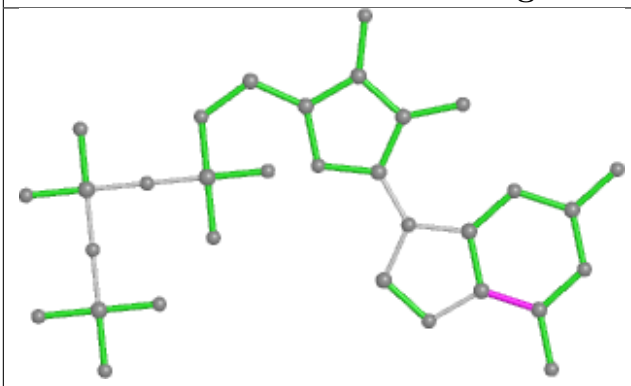


Rings

Ligand GTP 4J 501



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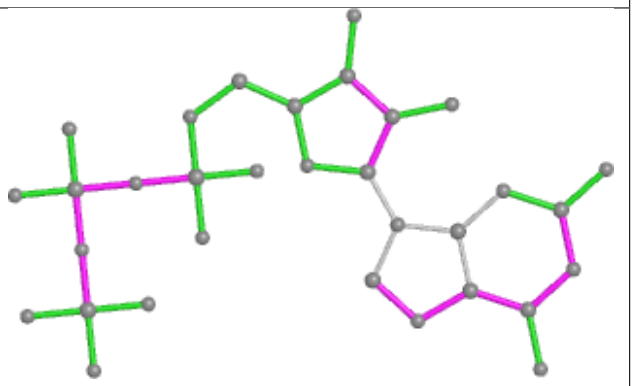

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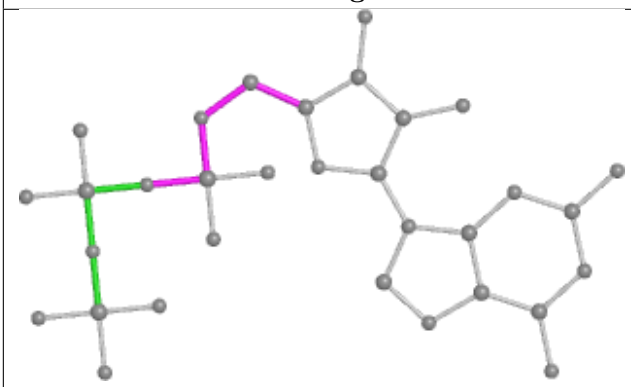

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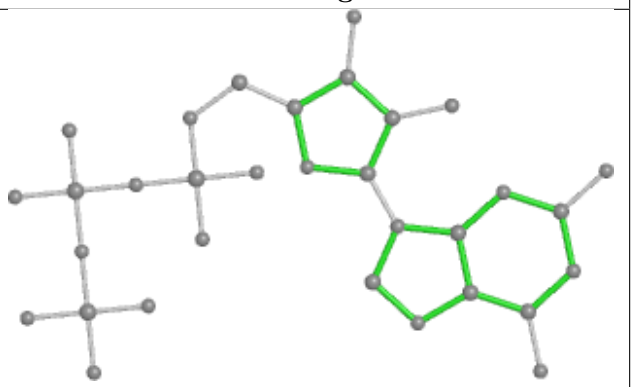

Rings

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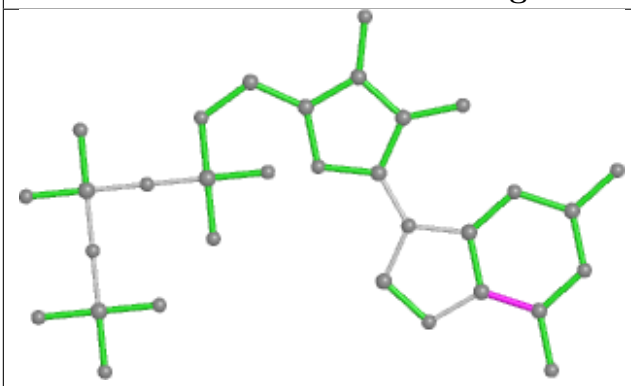

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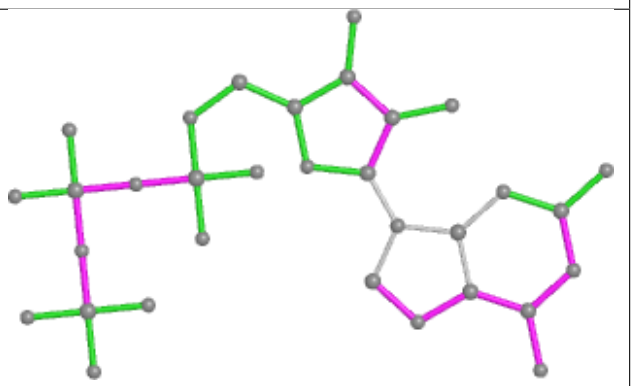
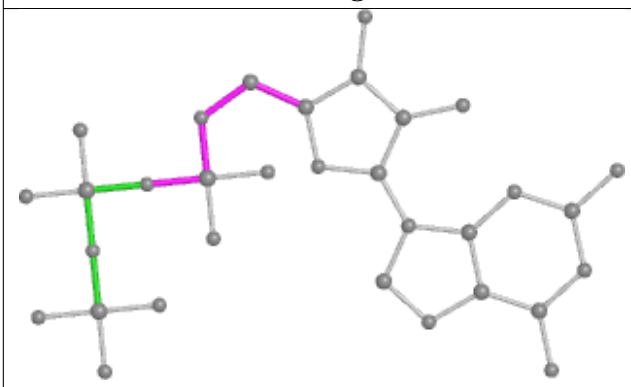


Bond angles



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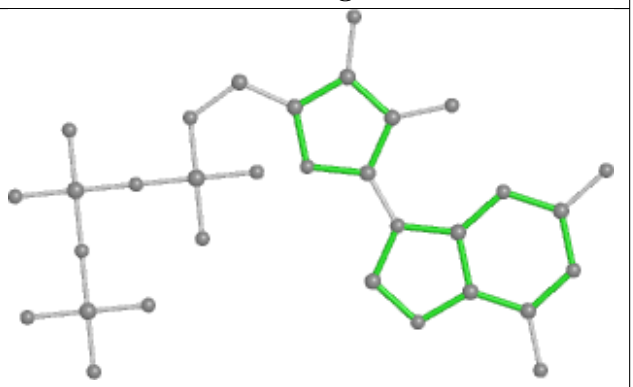
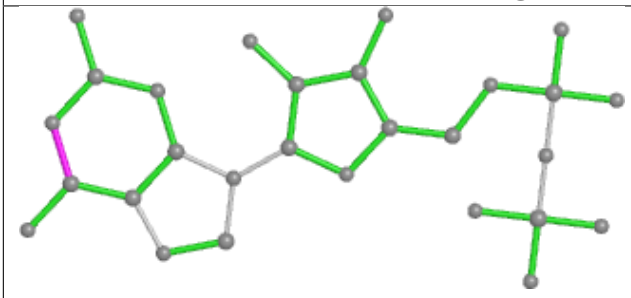
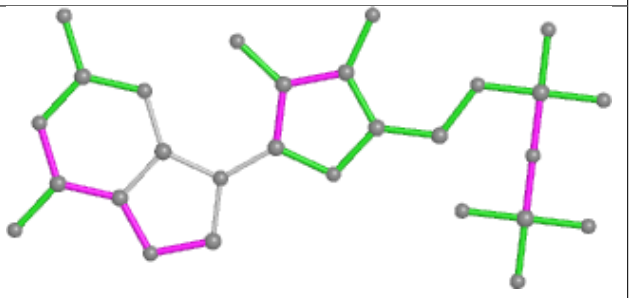
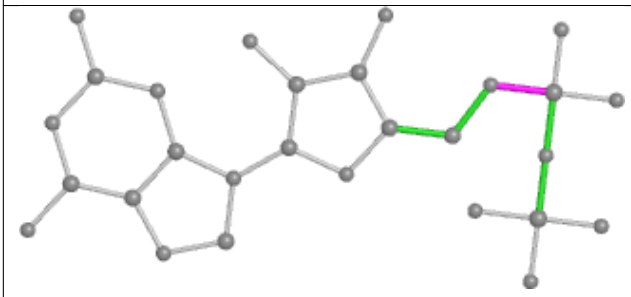
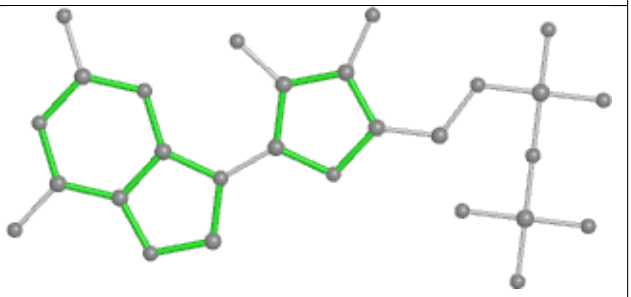


Rings

Ligand GDP 4X 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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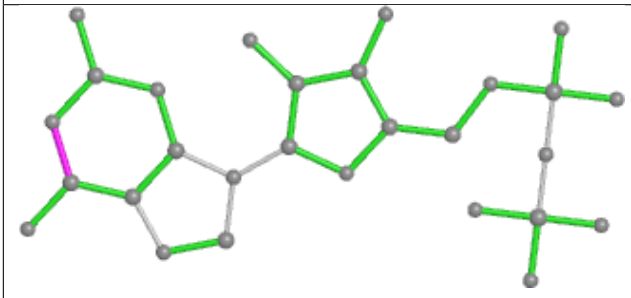
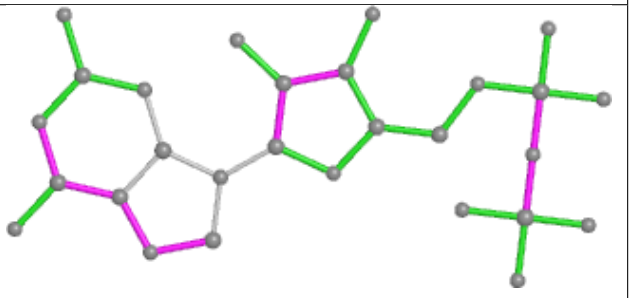
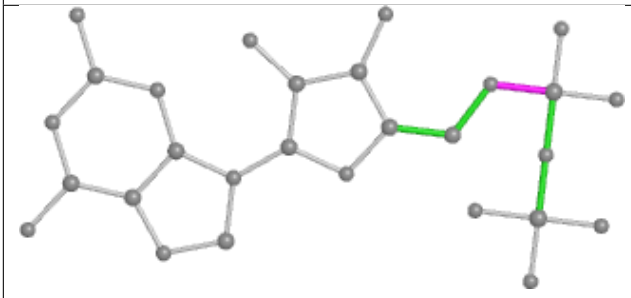
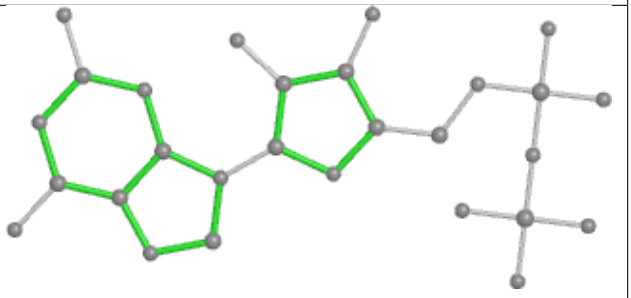
 Bond lengths	 Bond angles
 Torsions	 Rings

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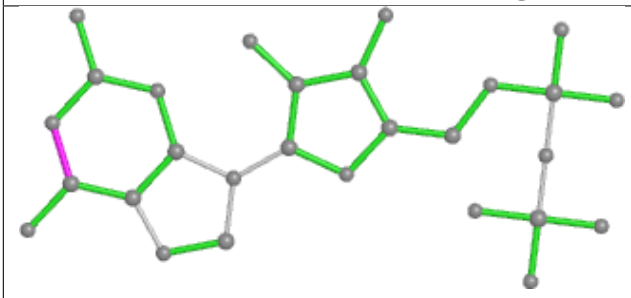

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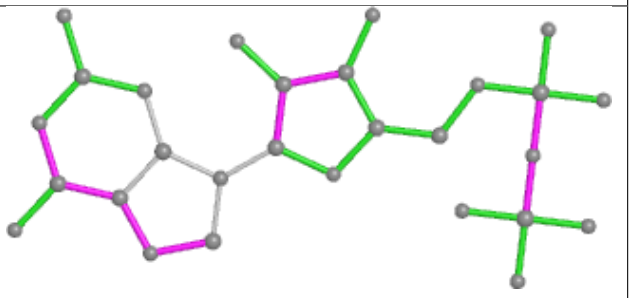
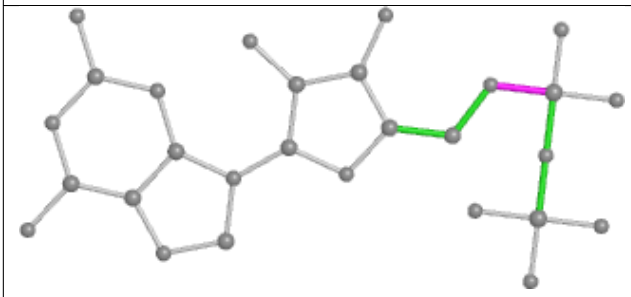


Bond angles



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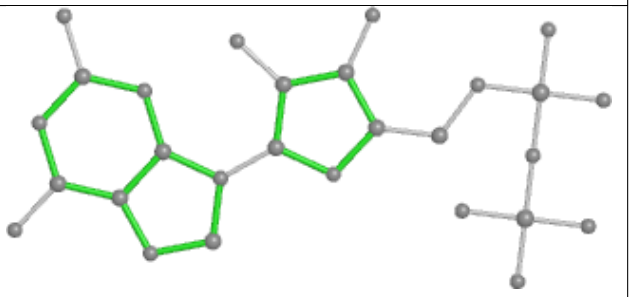
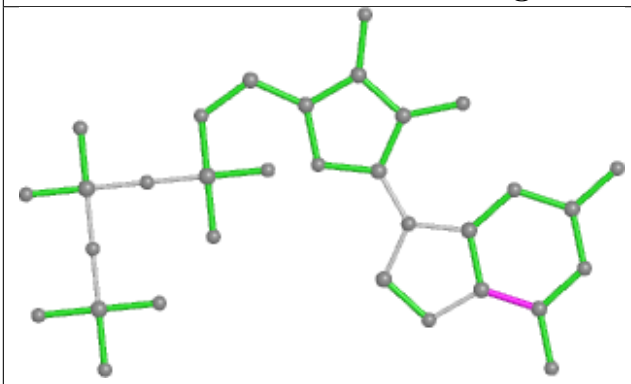


Rings

Ligand GTP 2A 501



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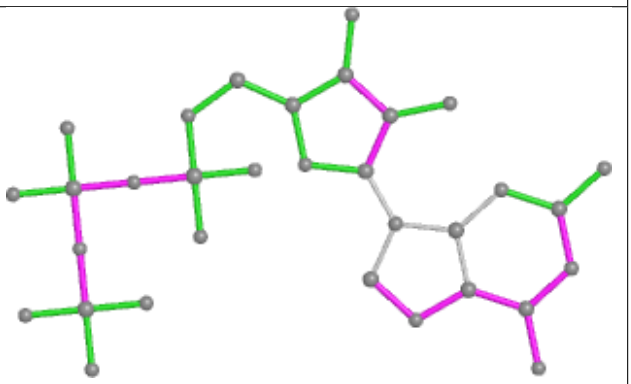

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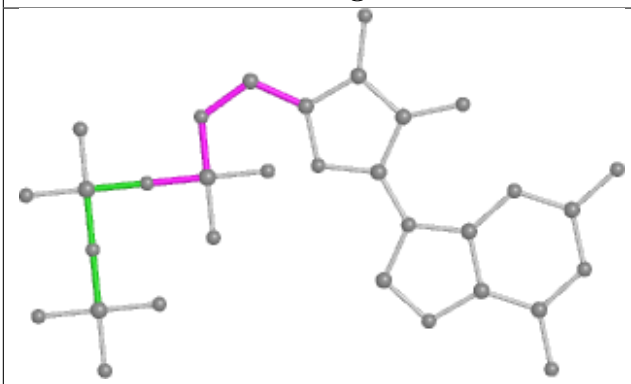

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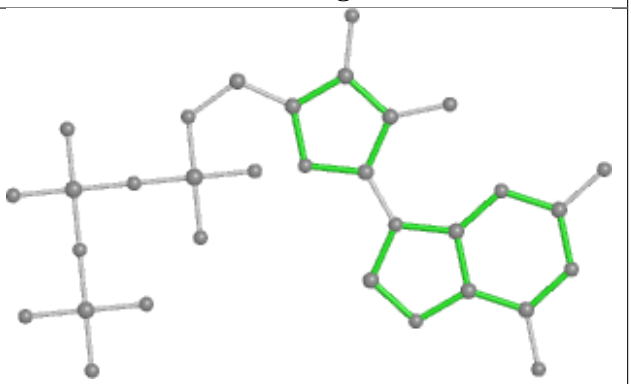
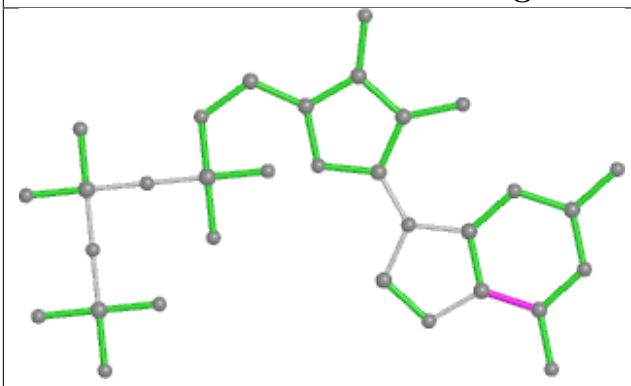


Rings

Ligand GTP 2C 501



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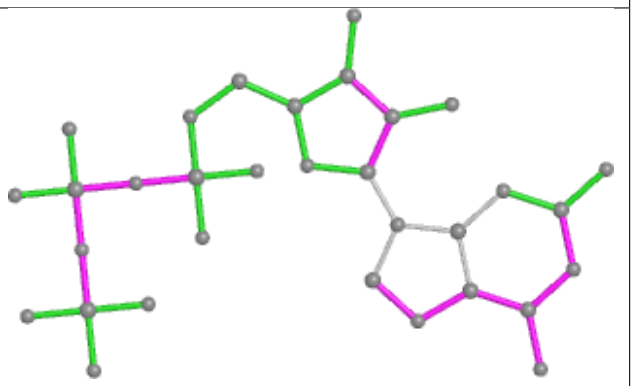
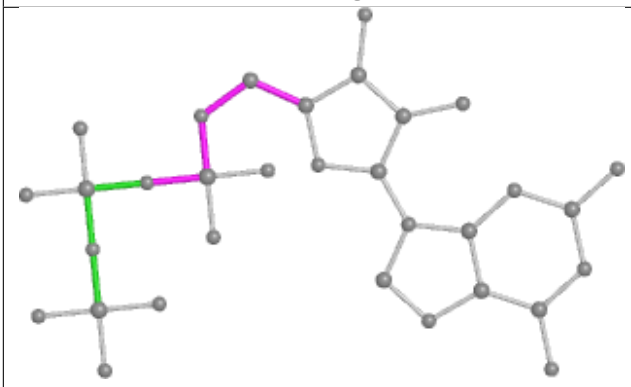


Bond angles



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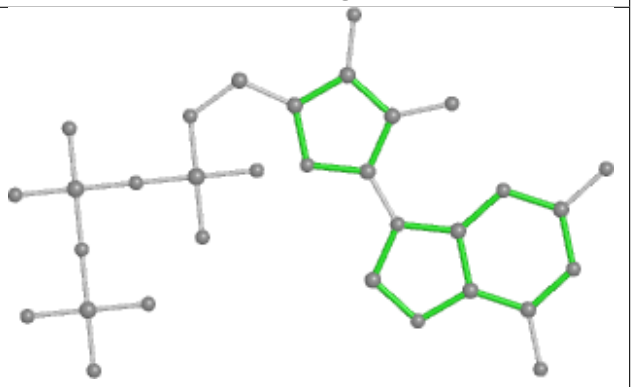
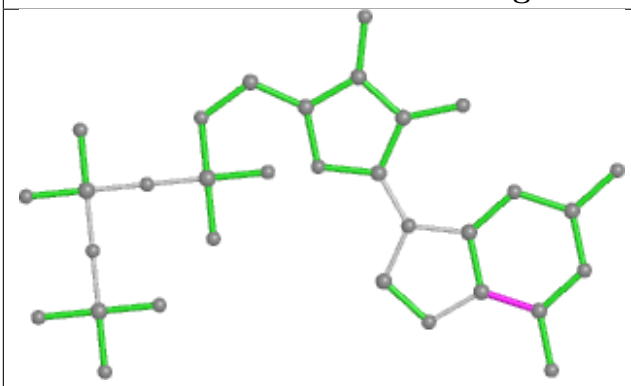


Rings

Ligand GTP 4D 501



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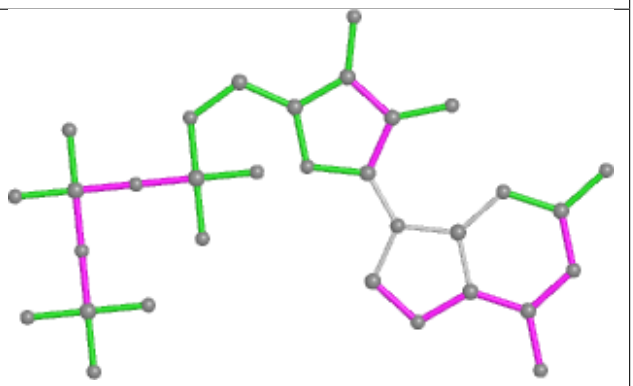

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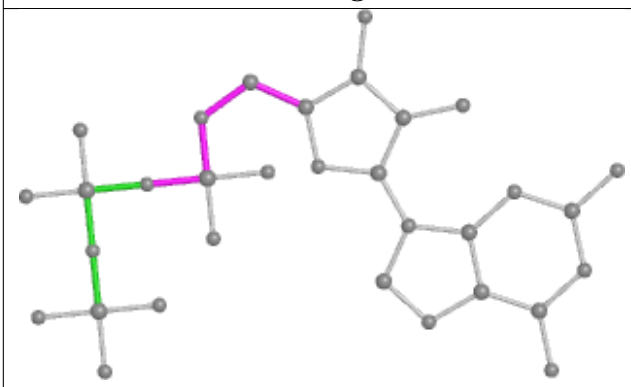

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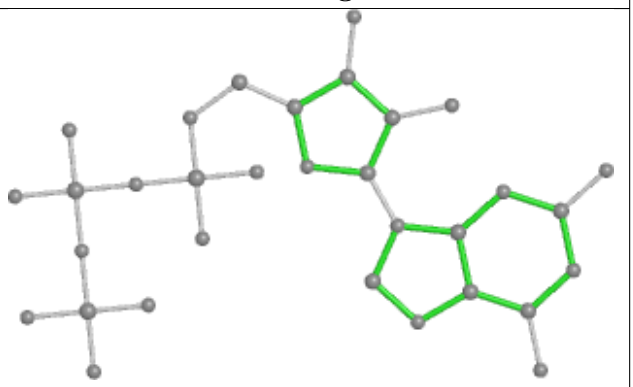

Rings

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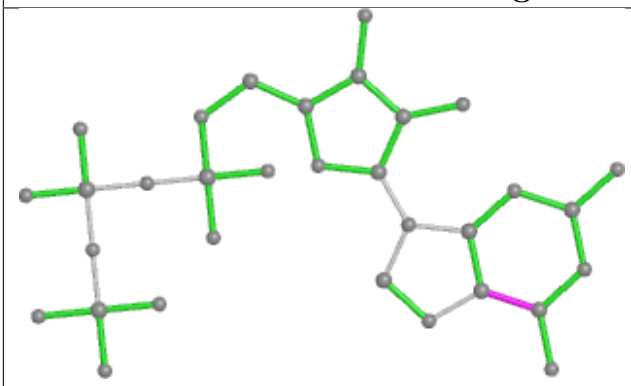

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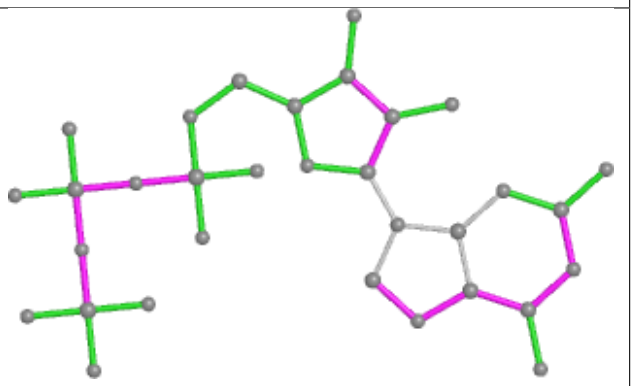
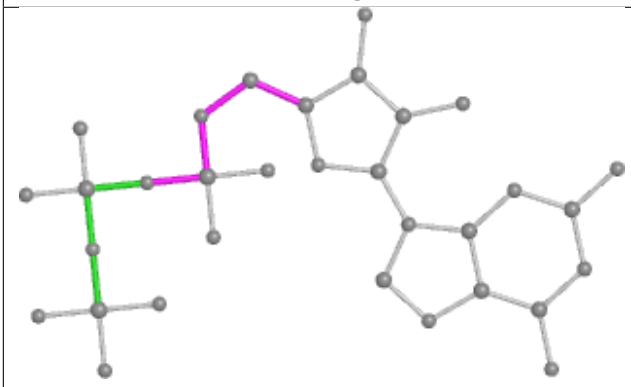


Bond angles



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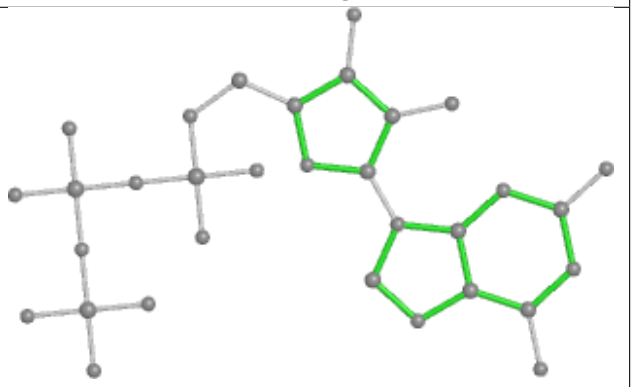
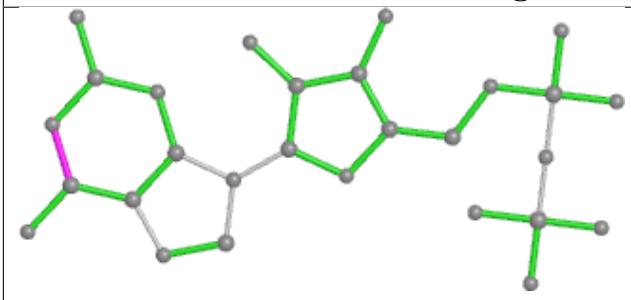


Rings

Ligand GDP 1V 501



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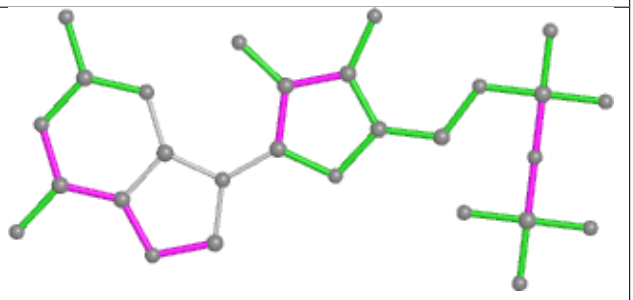
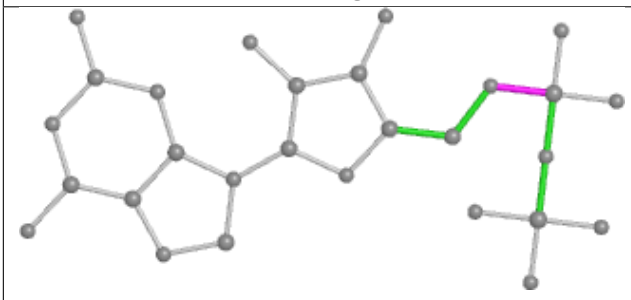


Bond angles



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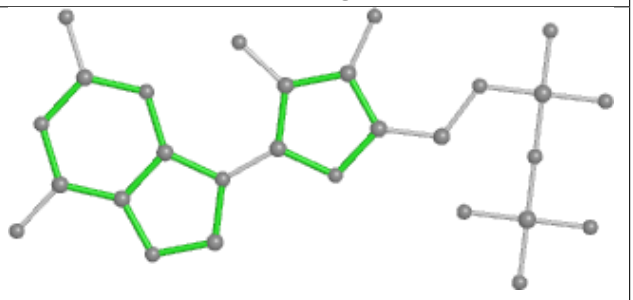

Rings

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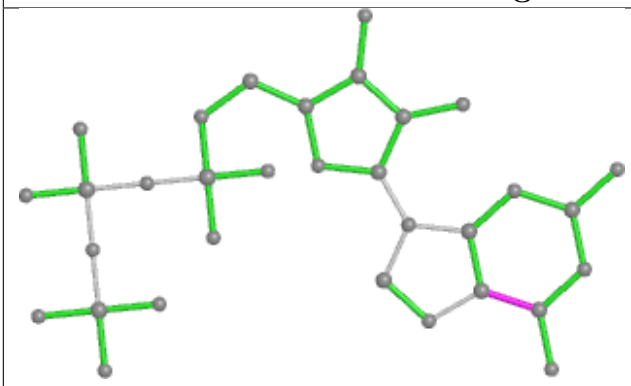
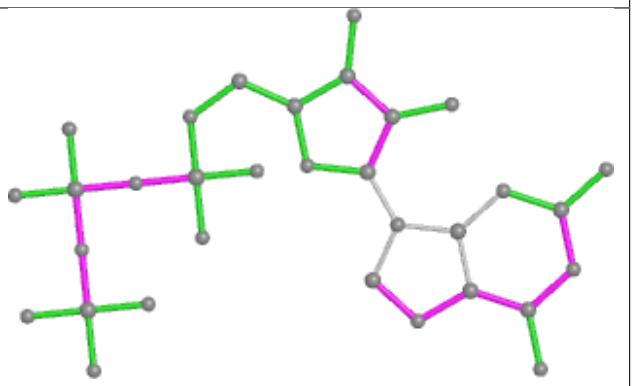
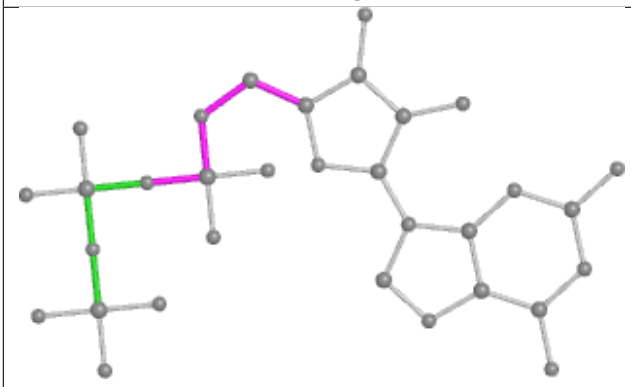


Bond lengths



Bond angles



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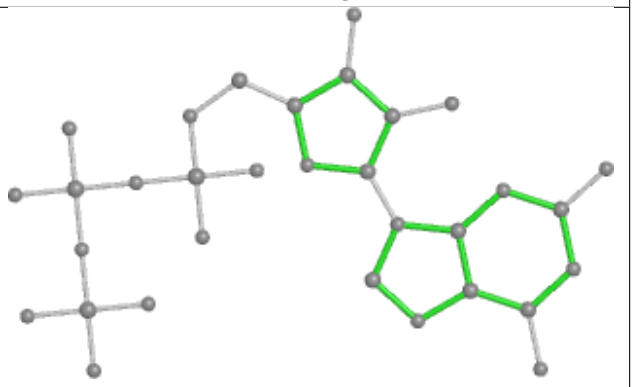
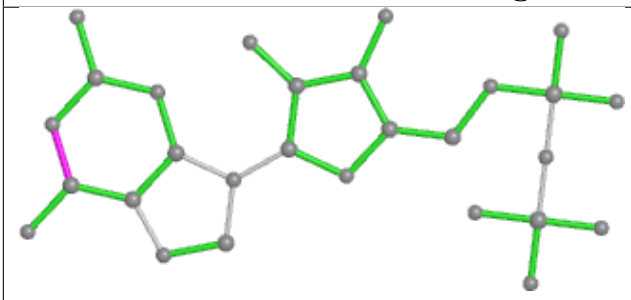


Rings

Ligand GDP 2O 501



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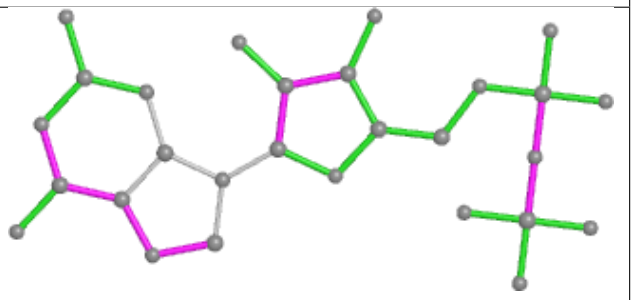

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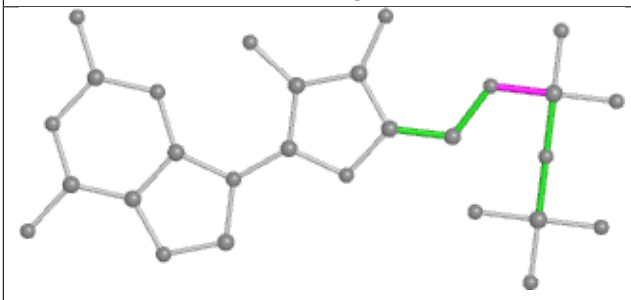

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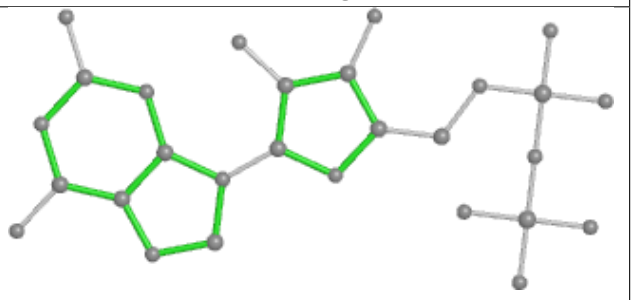
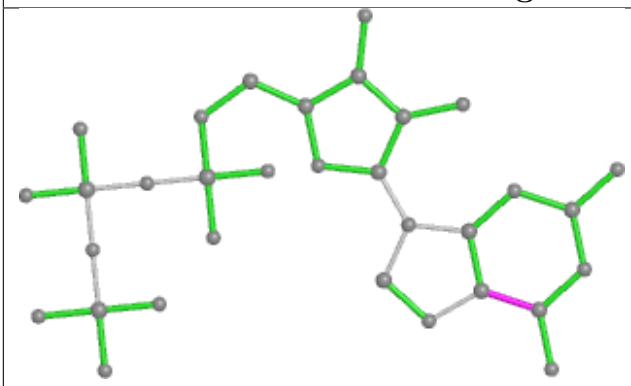


Rings

Ligand GTP 4L 501



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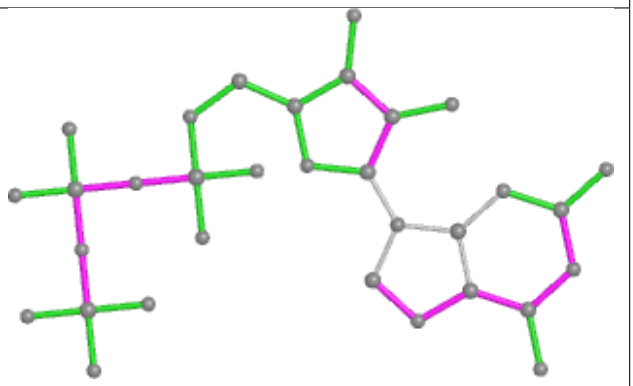

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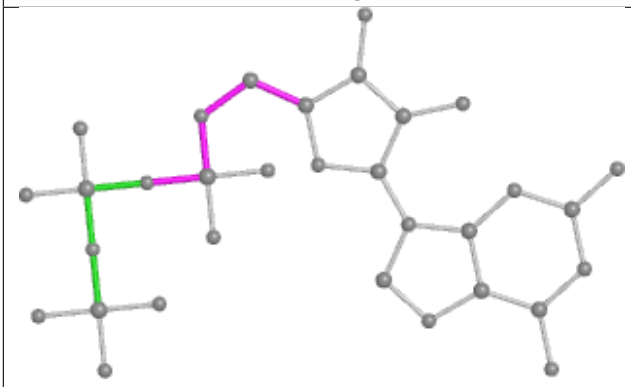

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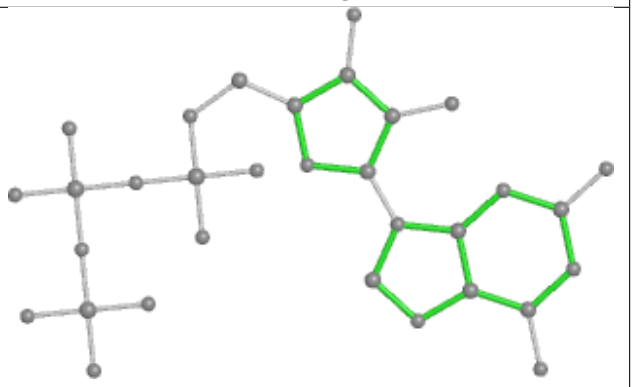
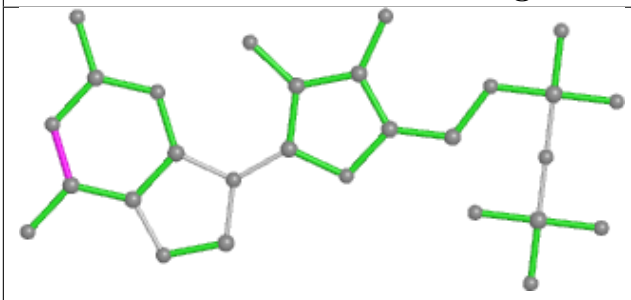


Rings

Ligand GDP 3P 501



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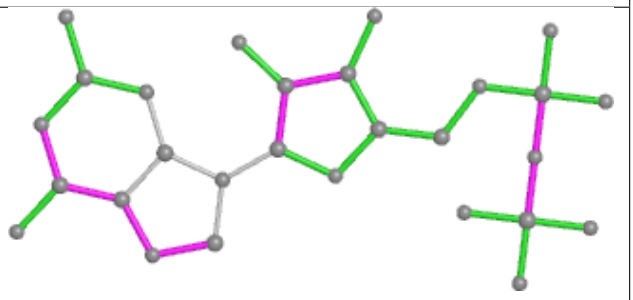
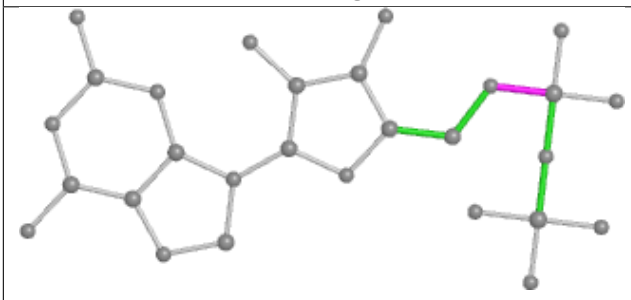


Bond angles



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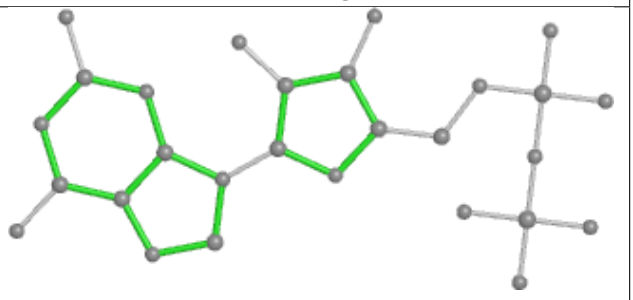

Rings

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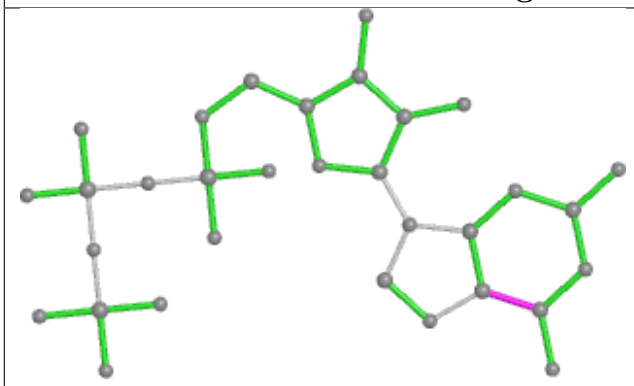

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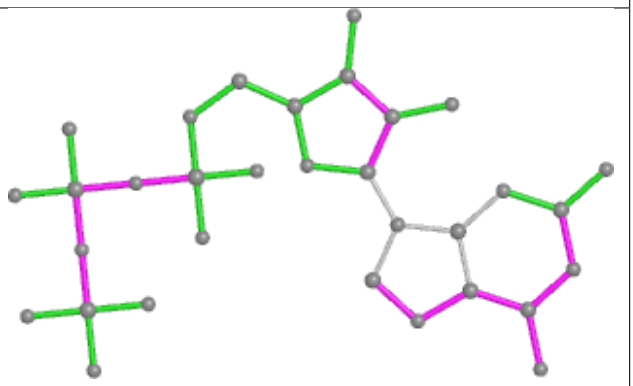

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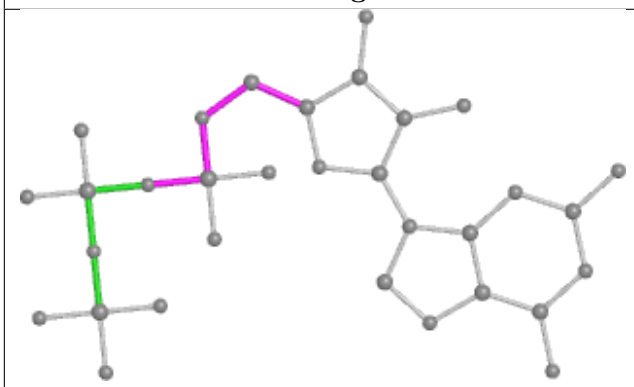

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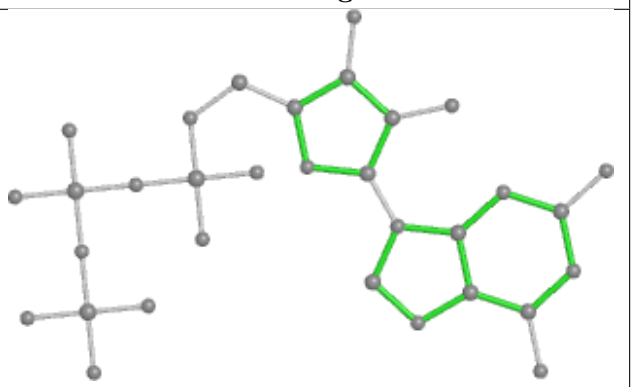
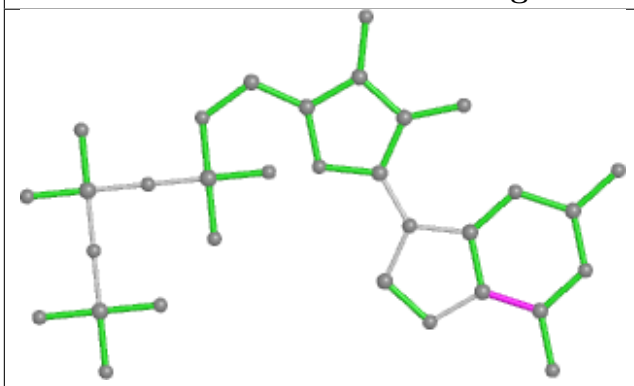


Rings

Ligand GTP 3M 501



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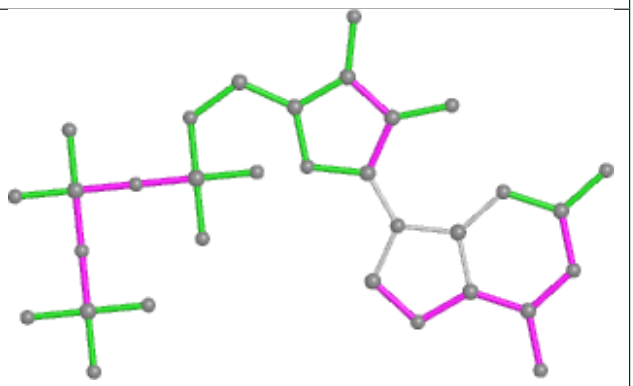

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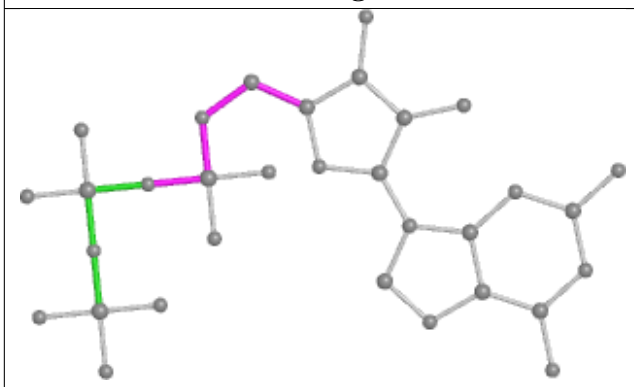

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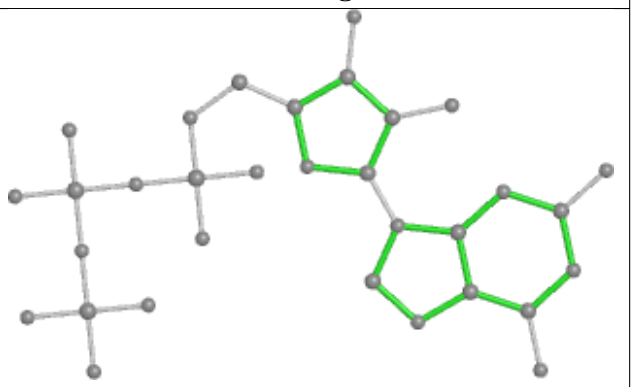
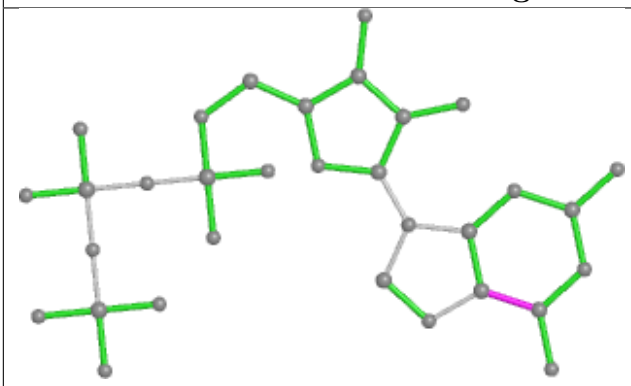


Rings

Ligand GTP 1N 501



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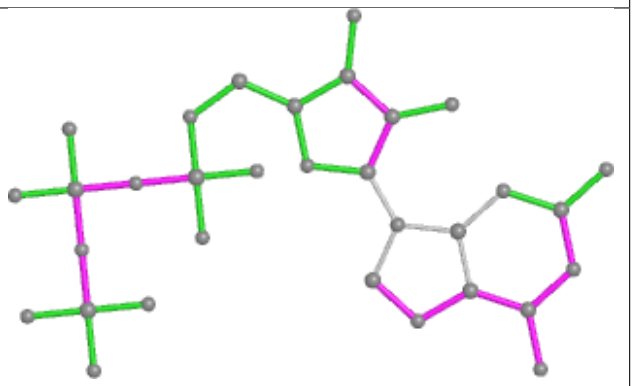

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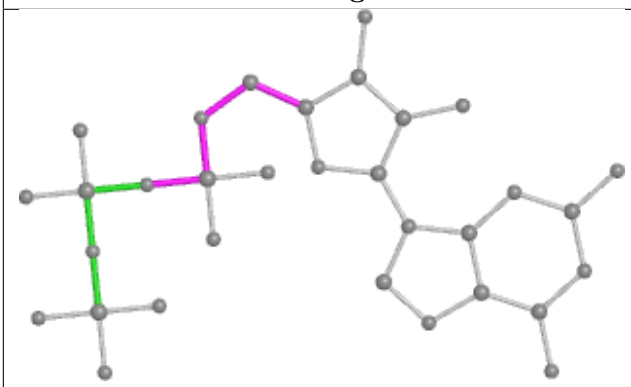

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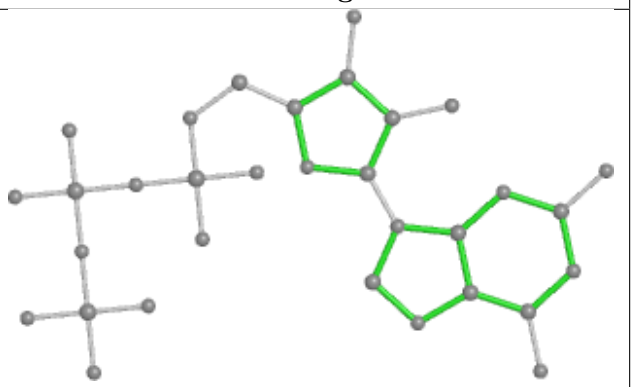

Rings

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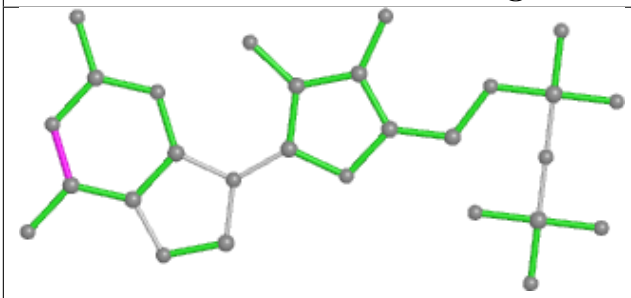

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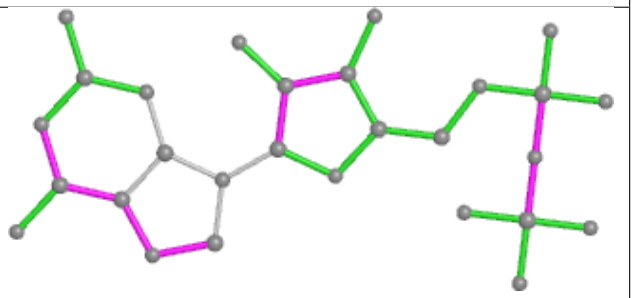
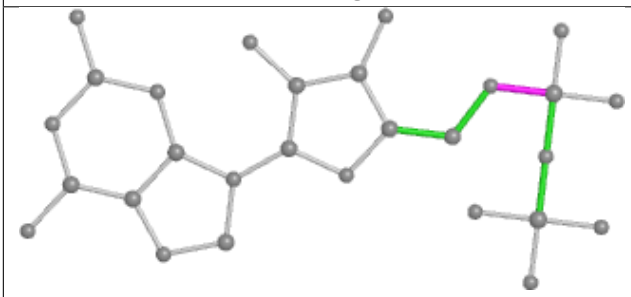


Bond angles



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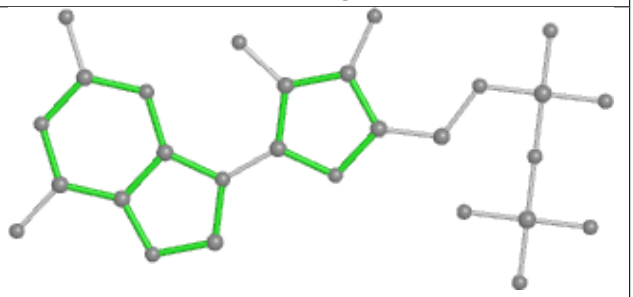

Rings

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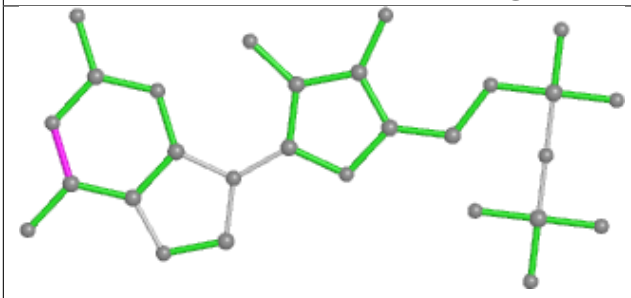
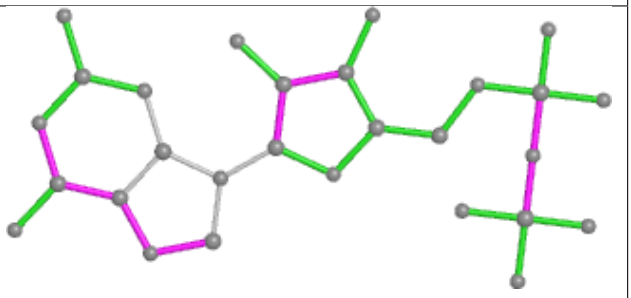
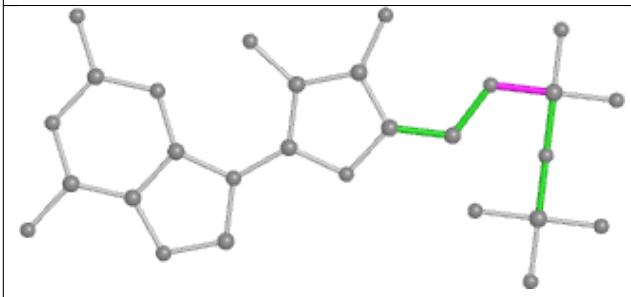
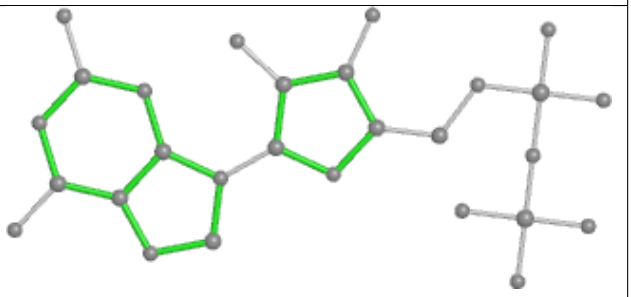
 Bond lengths	 Bond angles
 Torsions	 Rings

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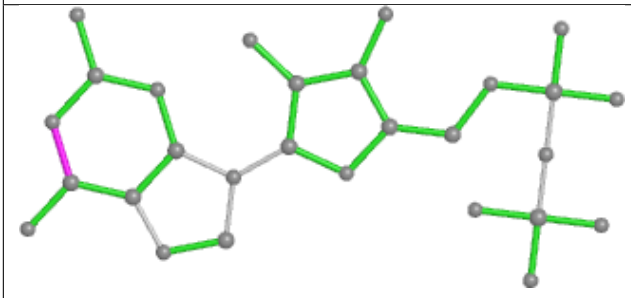
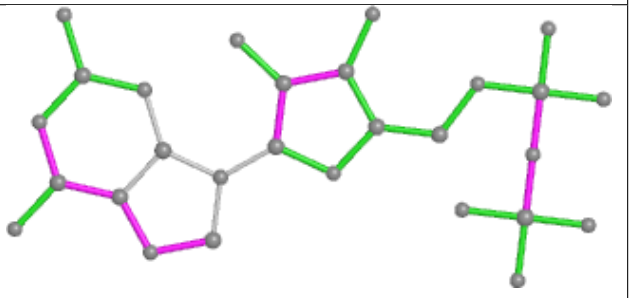
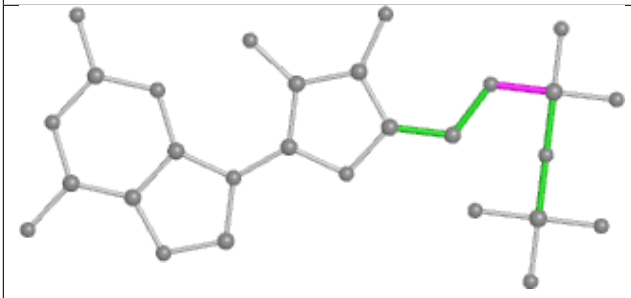
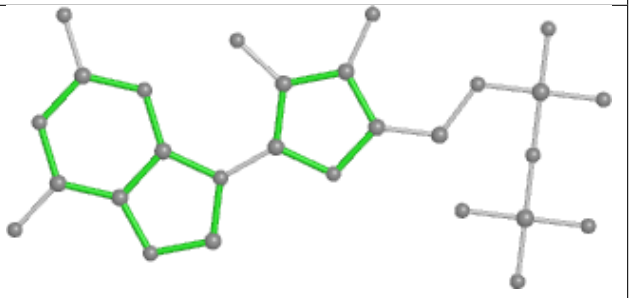
 Bond lengths	 Bond angles
 Torsions	 Rings

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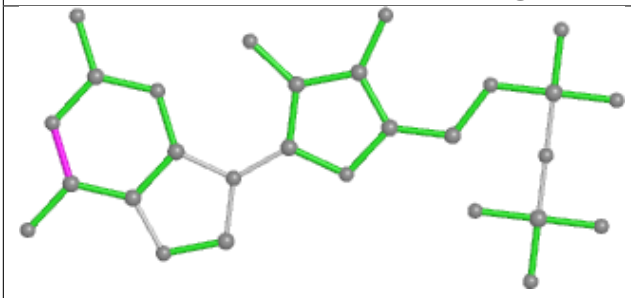

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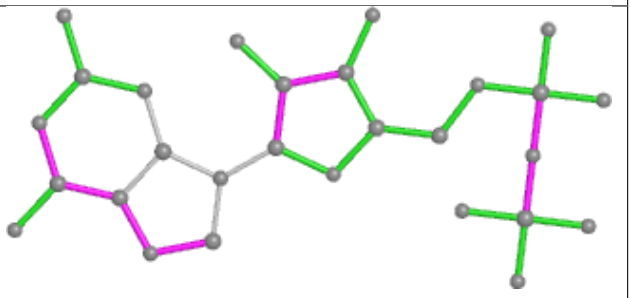
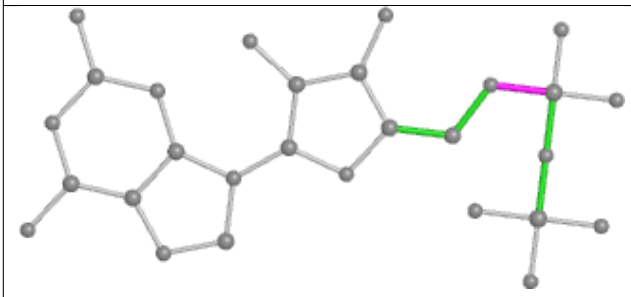


Bond angles



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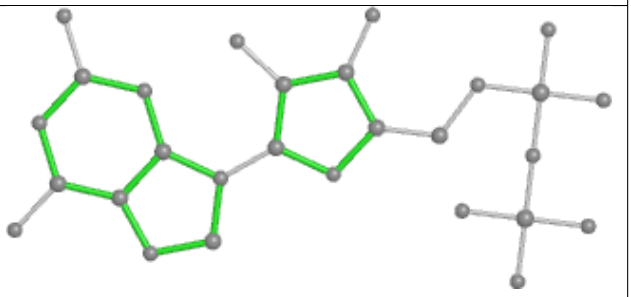
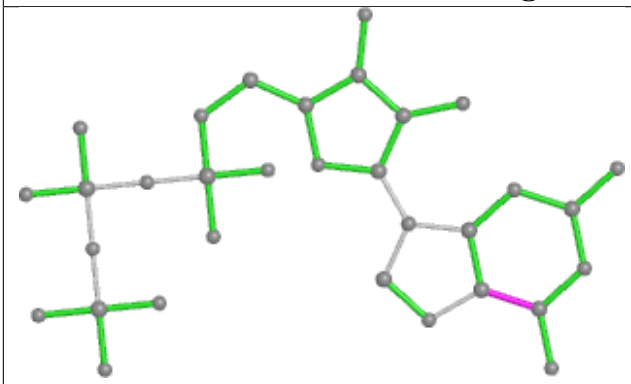


Rings

Ligand GTP 3I 501



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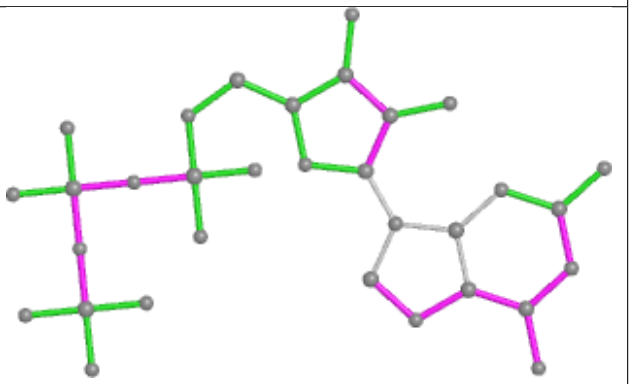

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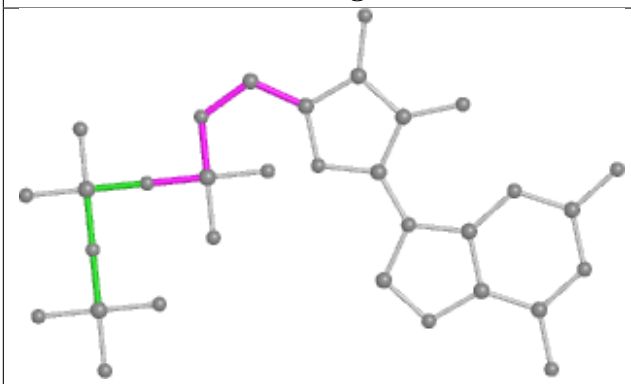

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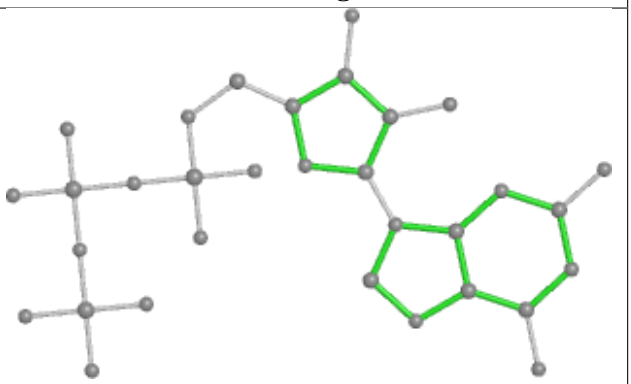

Rings

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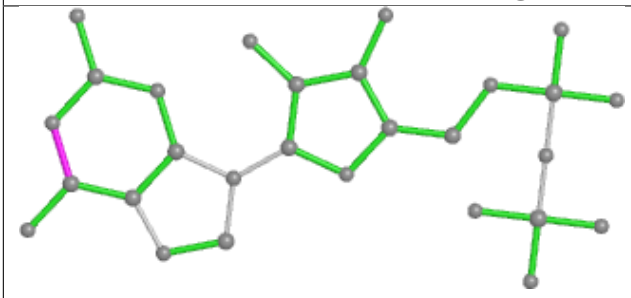
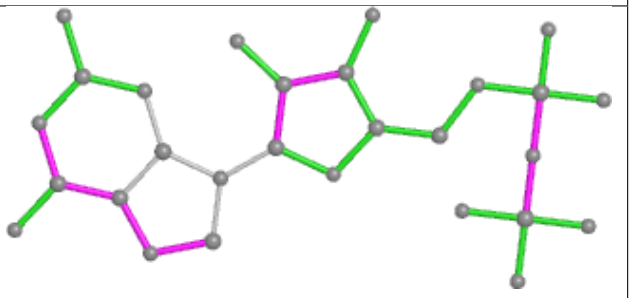
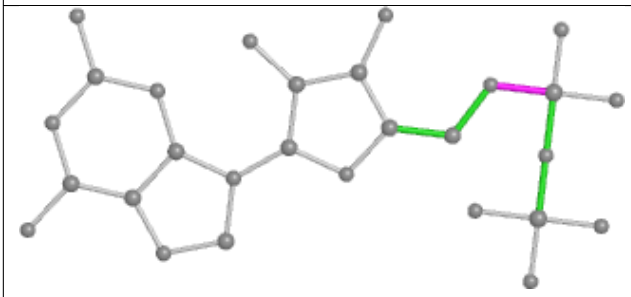
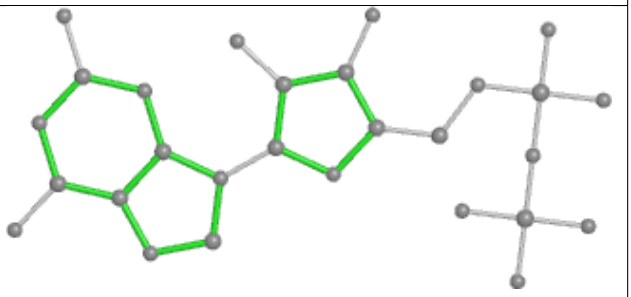
 Bond lengths	 Bond angles
 Torsions	 Rings

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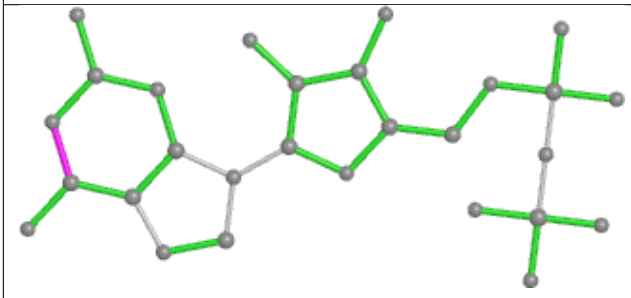
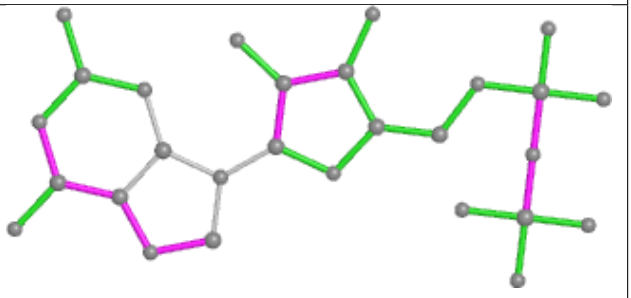
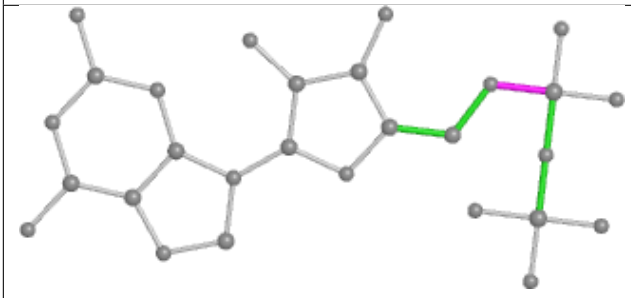
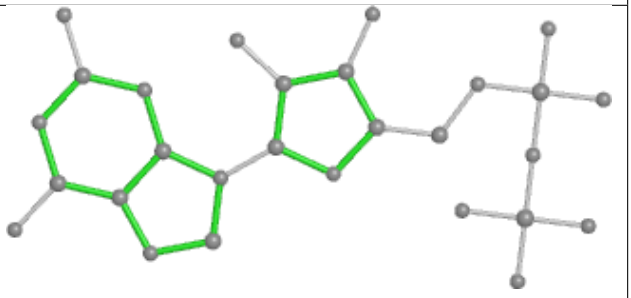
 Bond lengths	 Bond angles
 Torsions	 Rings

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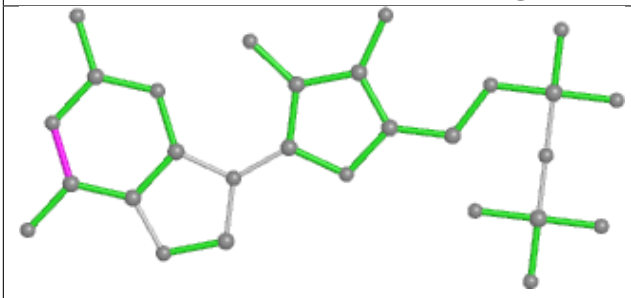
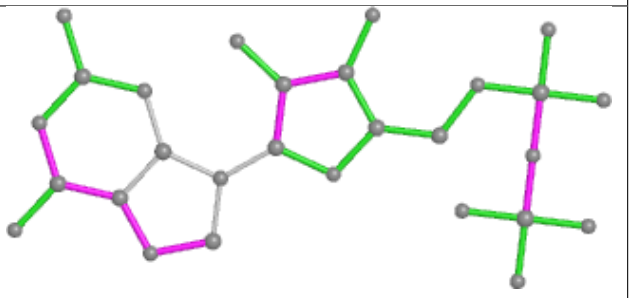
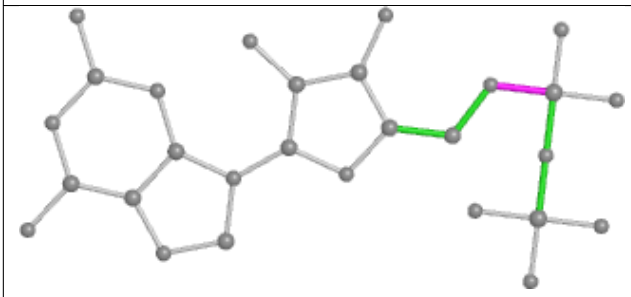
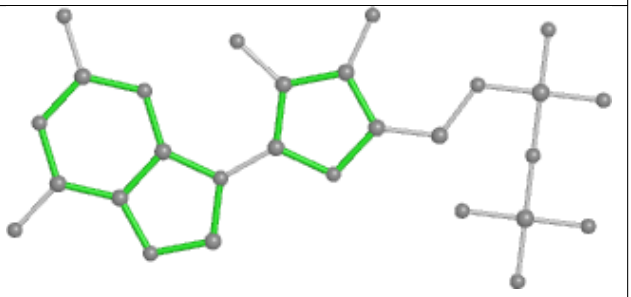
 Bond lengths	 Bond angles
 Torsions	 Rings

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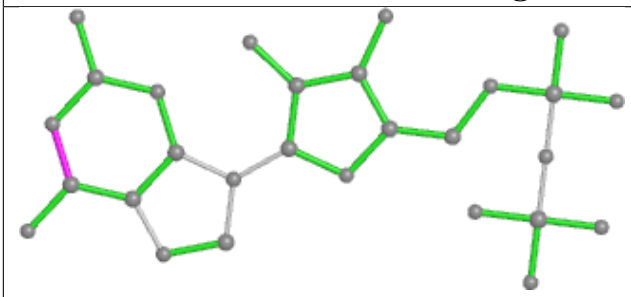
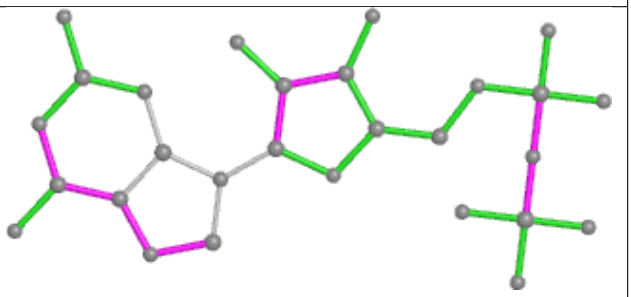
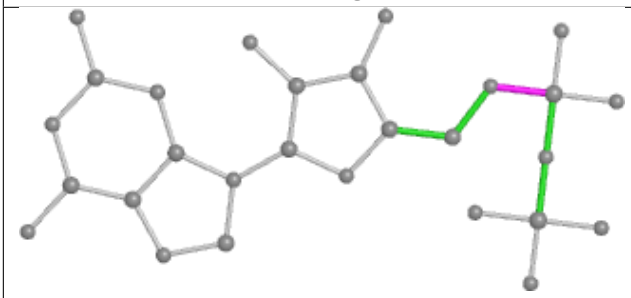
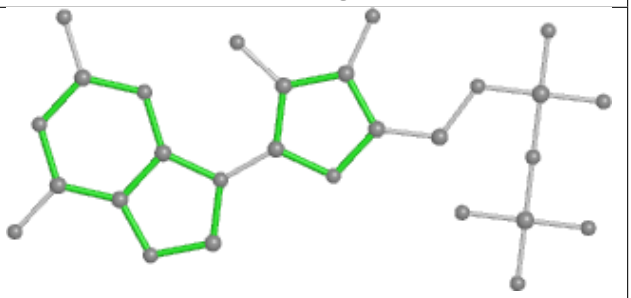
 Bond lengths	 Bond angles
 Torsions	 Rings

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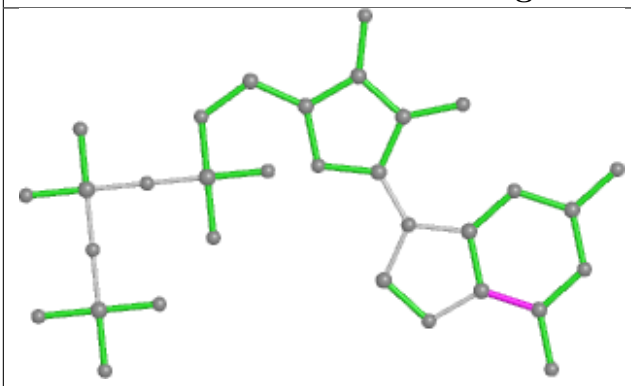

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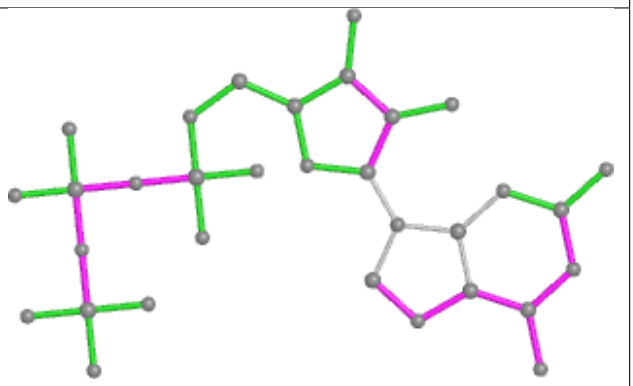

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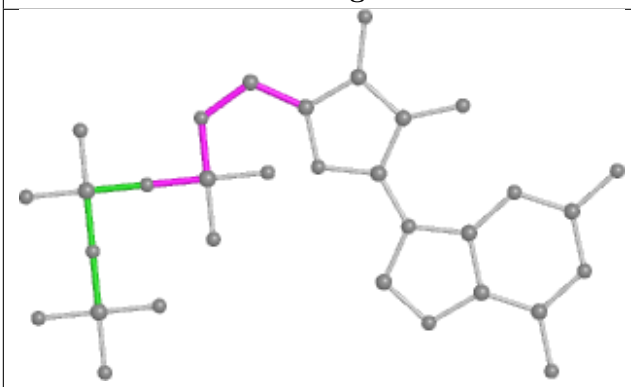

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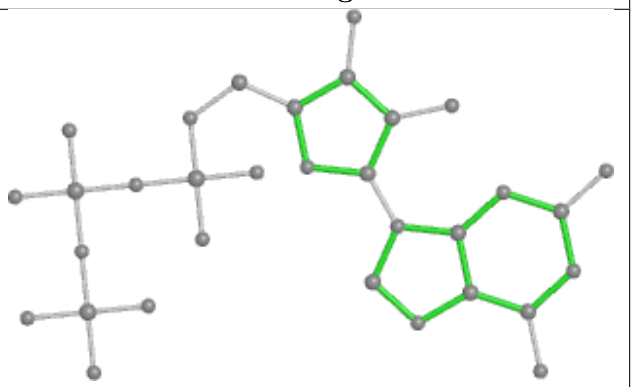

Rings

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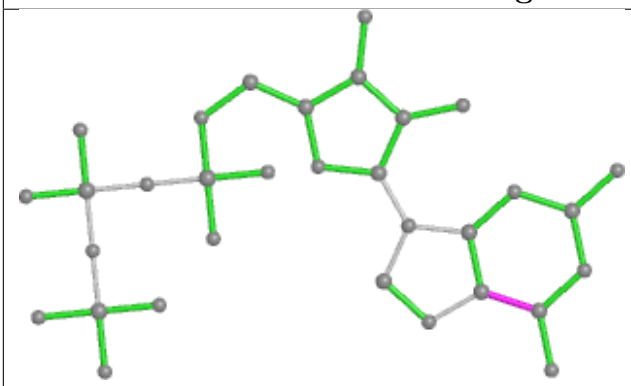

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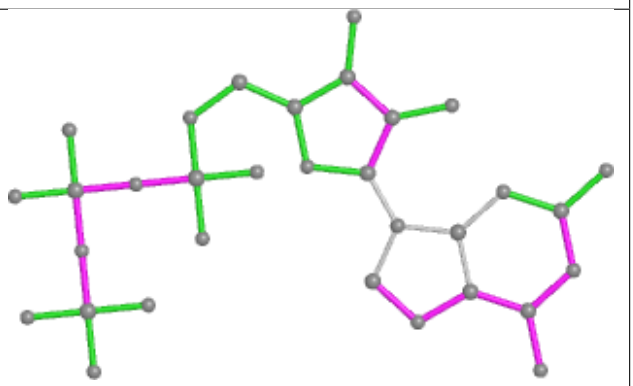

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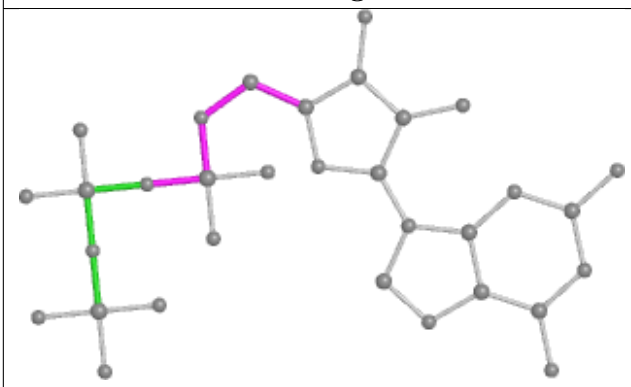

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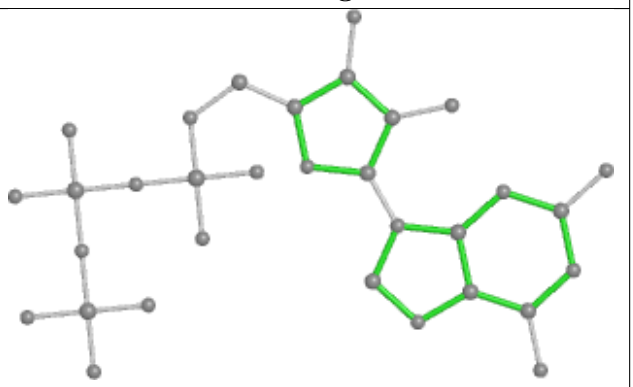

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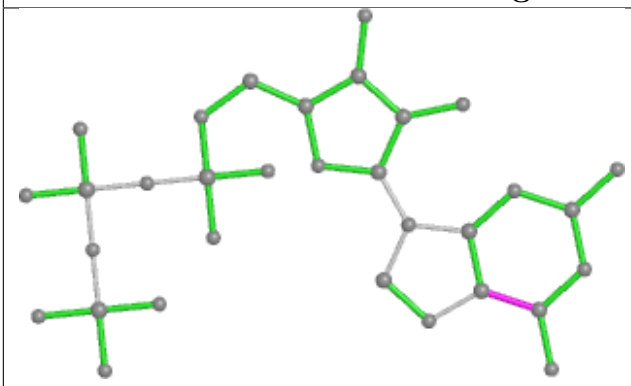

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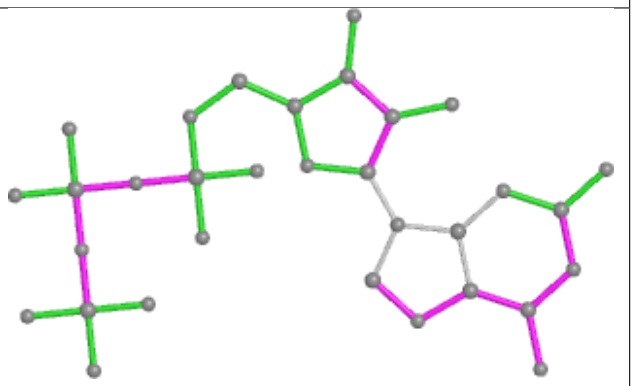

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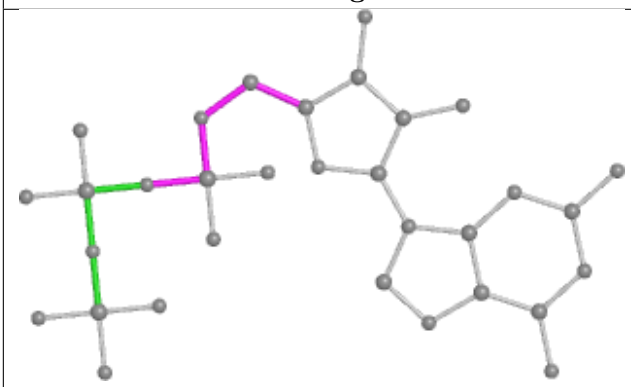

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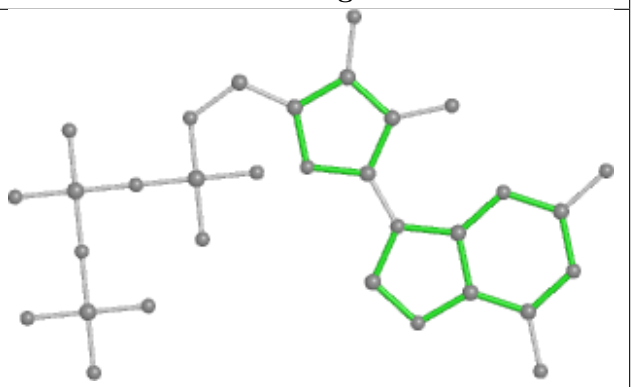

Rings

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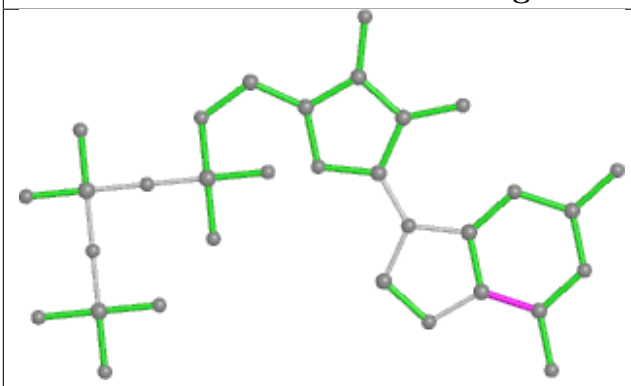

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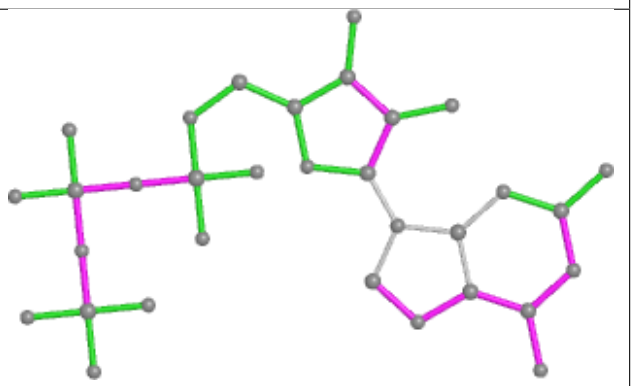

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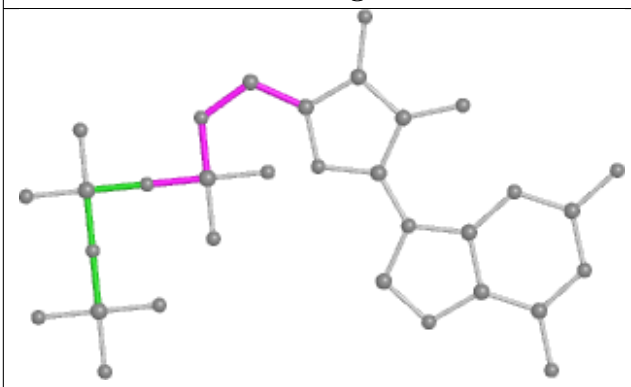

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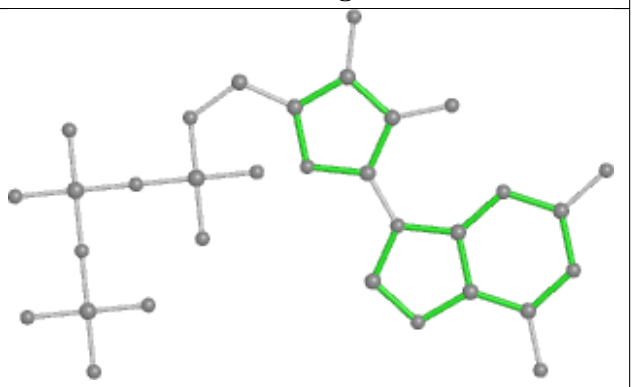

Rings

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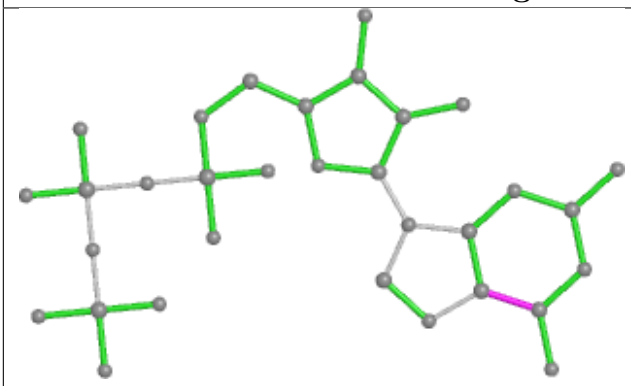

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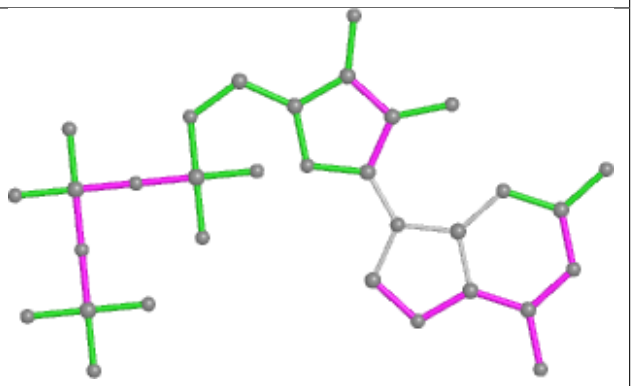

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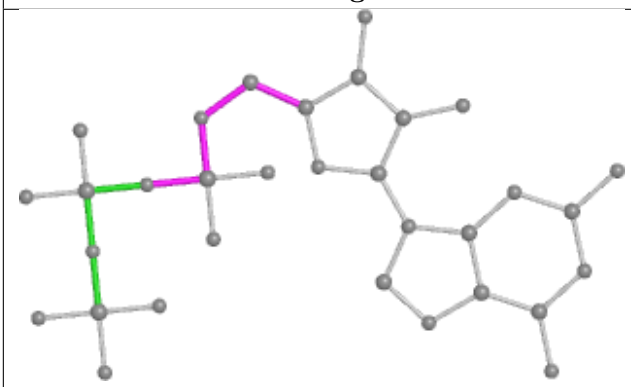

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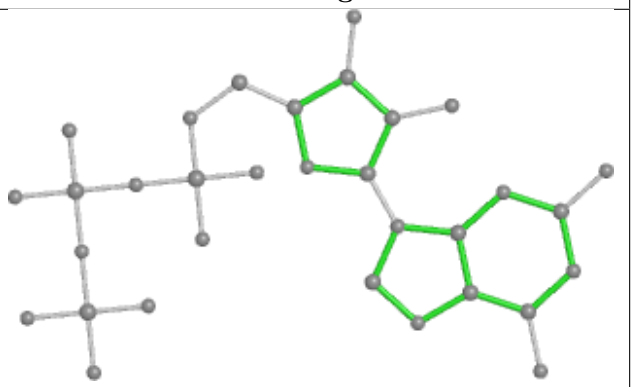

Rings

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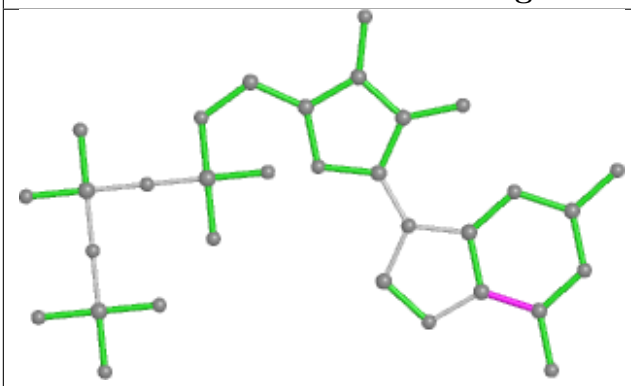

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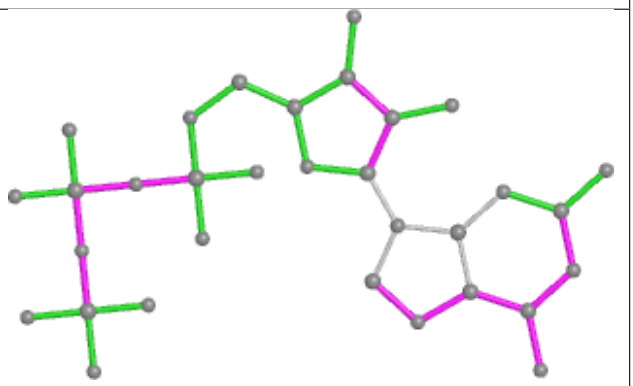

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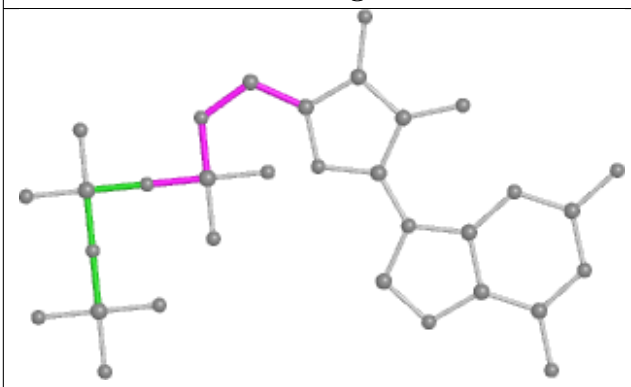

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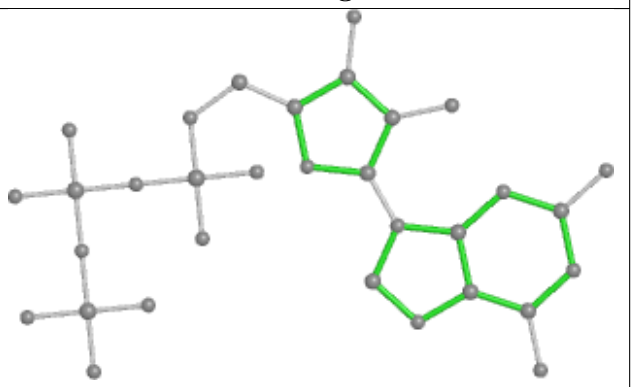

Rings

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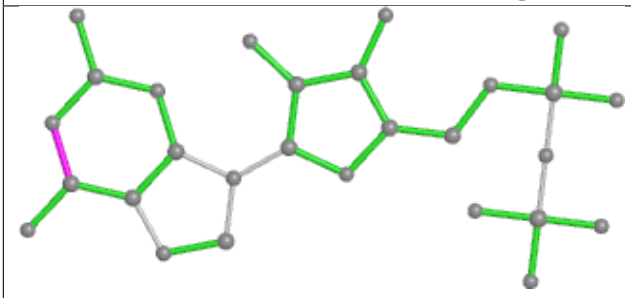
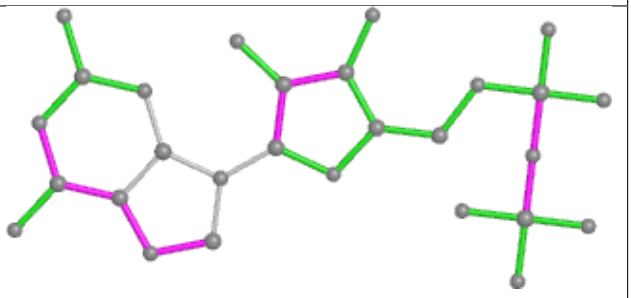
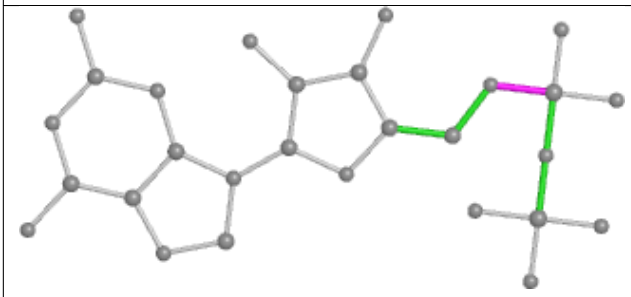
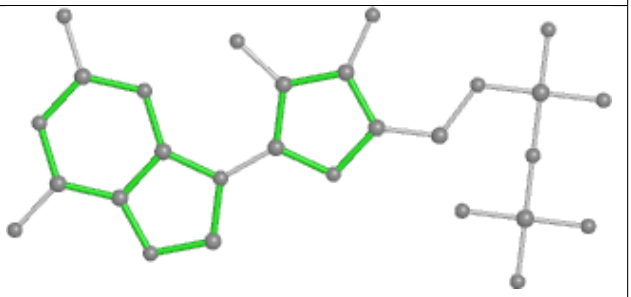
 Bond lengths	 Bond angles
 Torsions	 Rings

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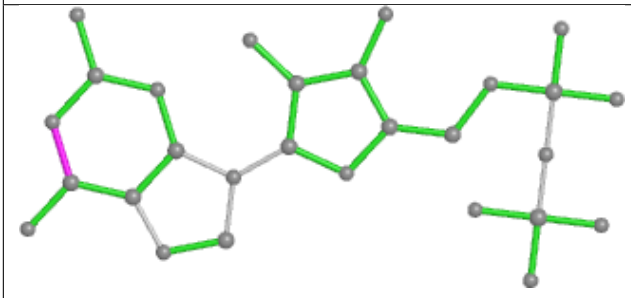
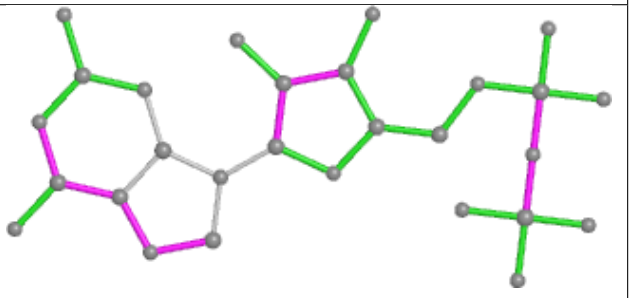
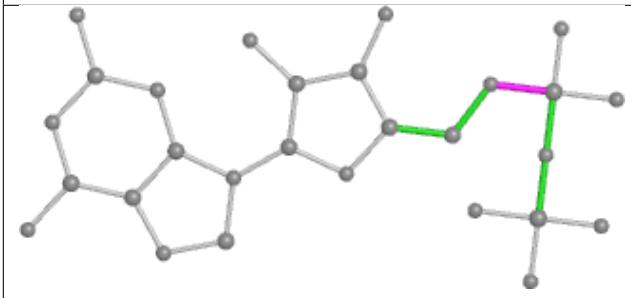
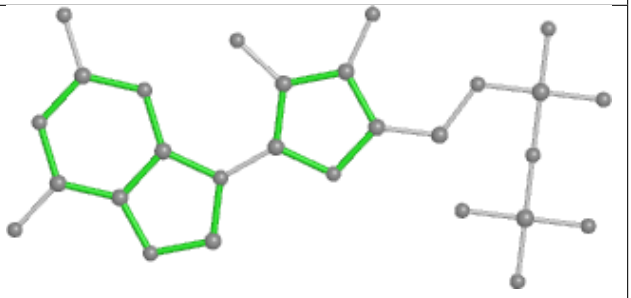
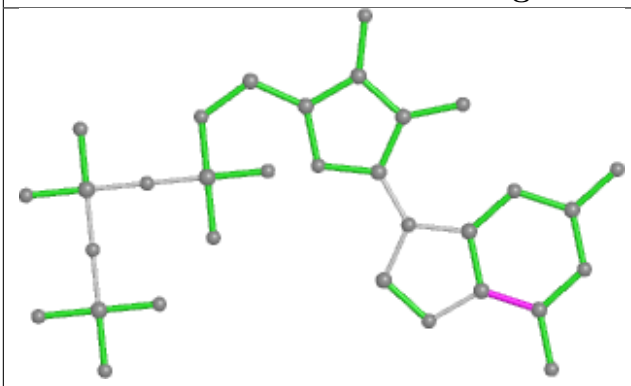
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP 4G 501



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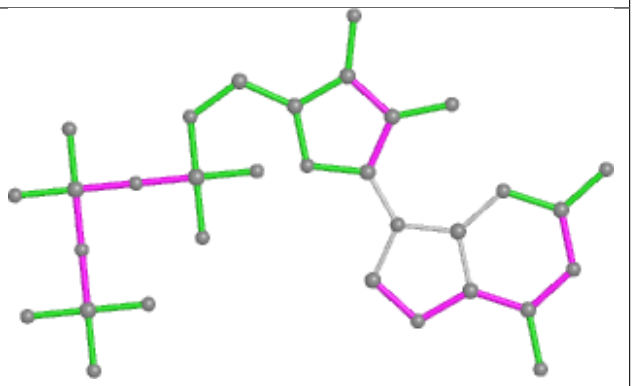
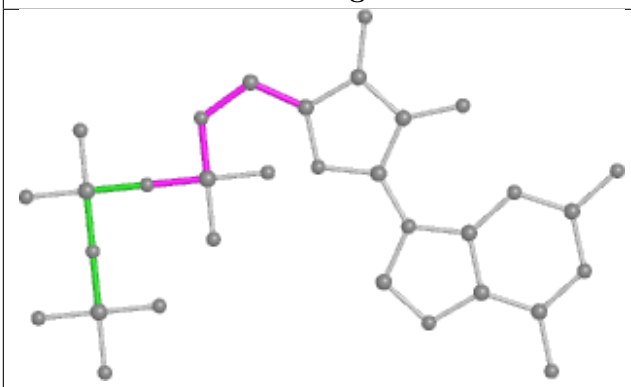
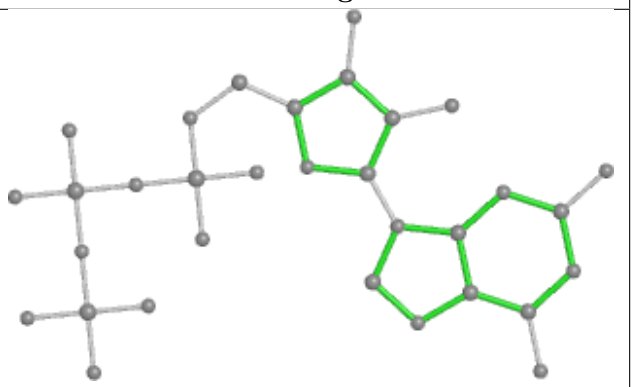


Bond angles

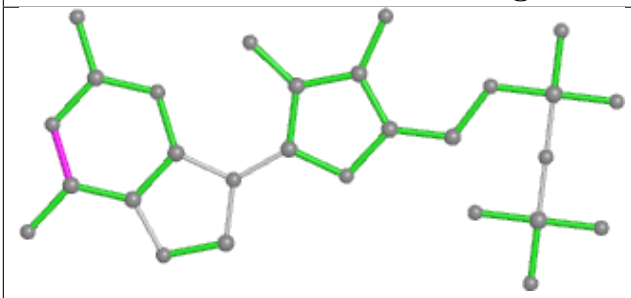


Torsions



Rings

Ligand GDP 1Y 501



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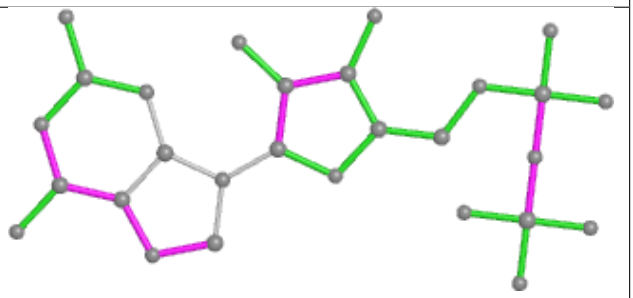

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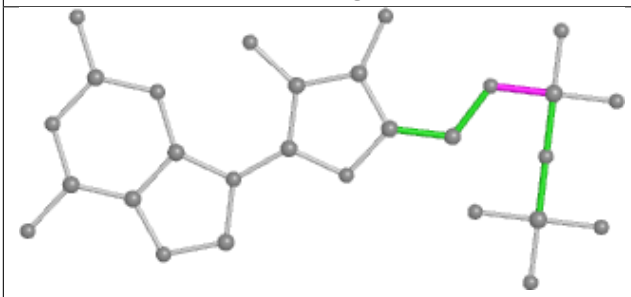

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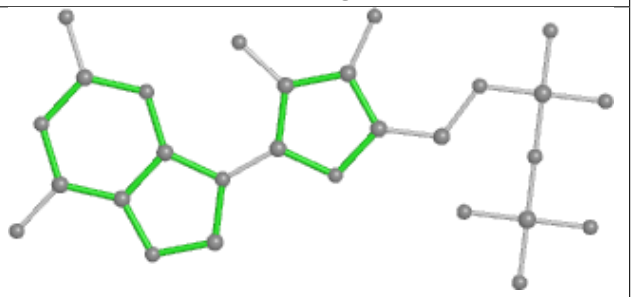
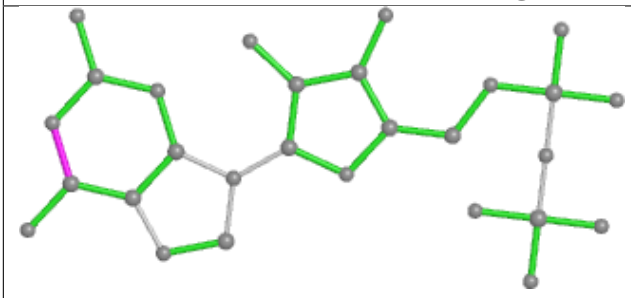


Rings

Ligand GDP 3T 501



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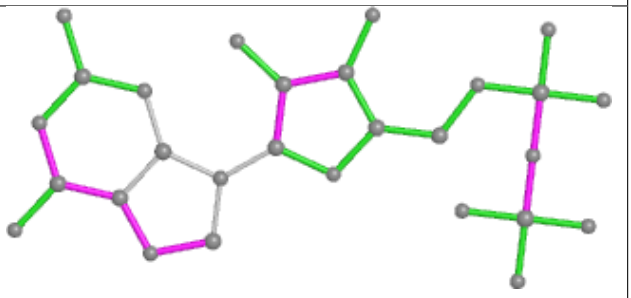

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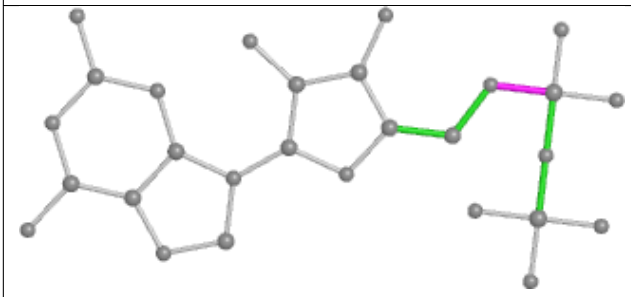

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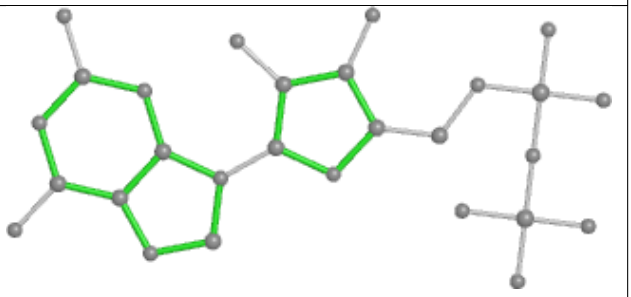
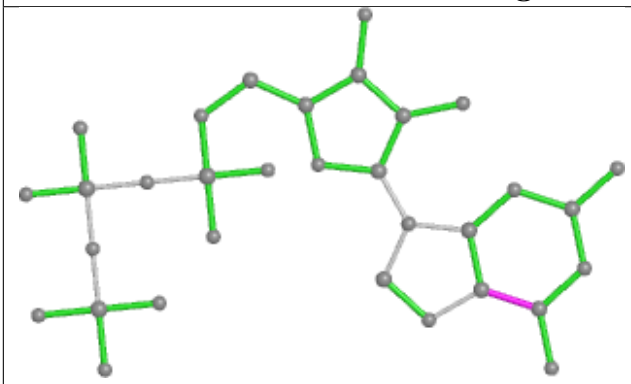


Rings

Ligand GTP 2E 501



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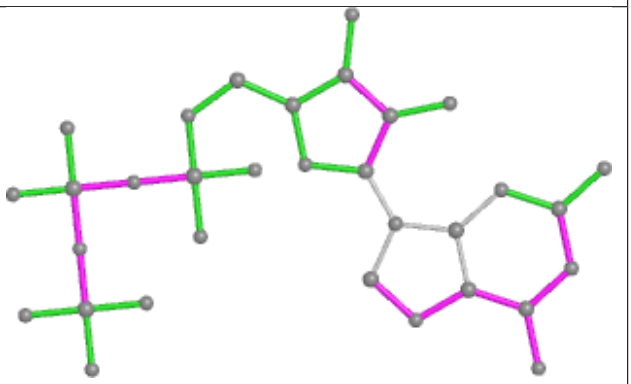
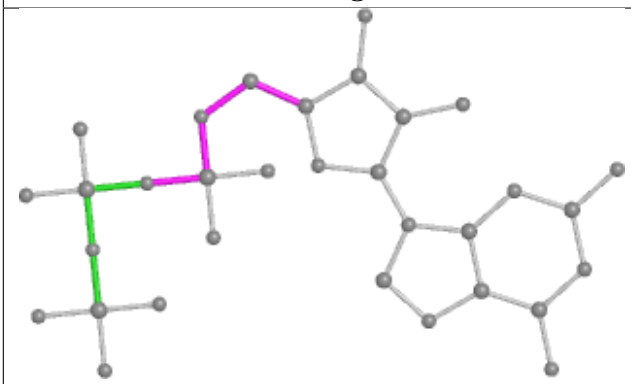


Bond angles



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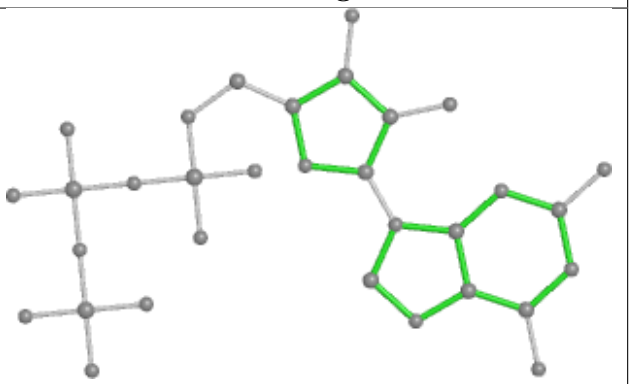
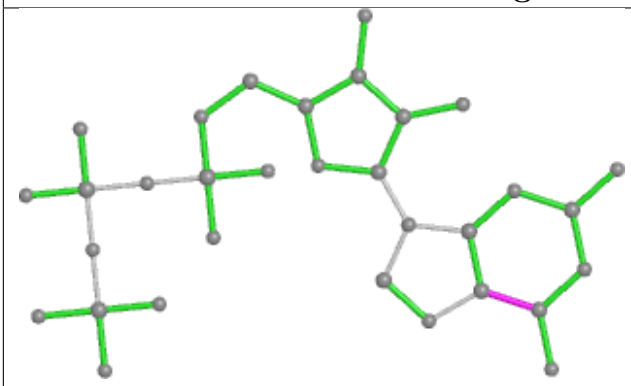


Rings

Ligand GTP 4C 501



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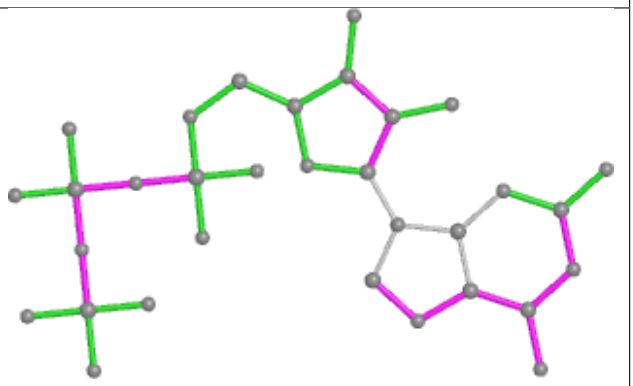
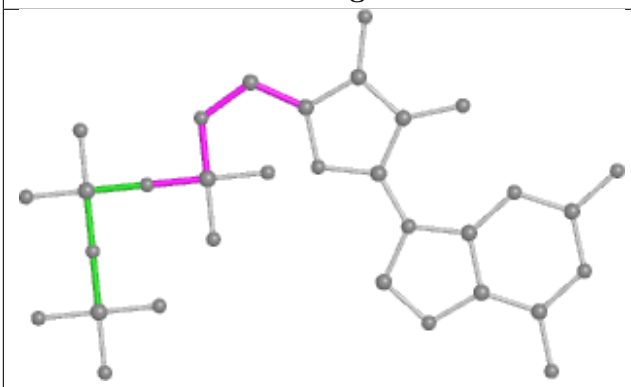


Bond angles



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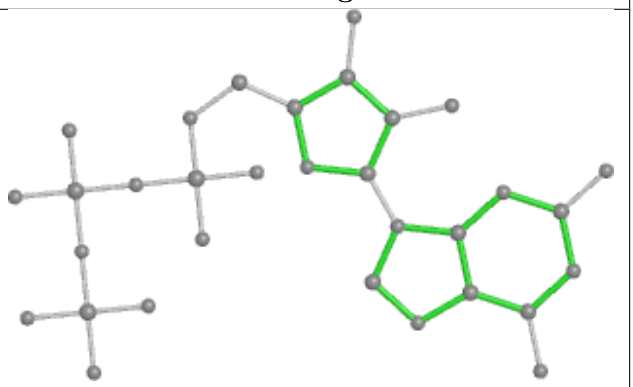
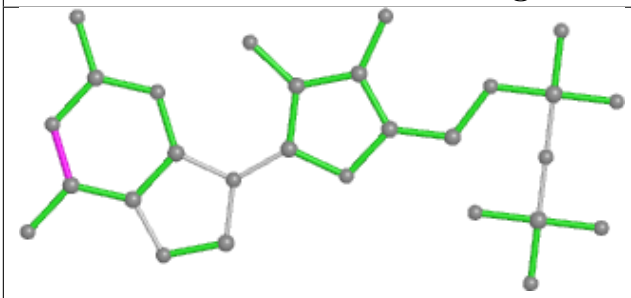


Rings

Ligand GDP 2Y 501



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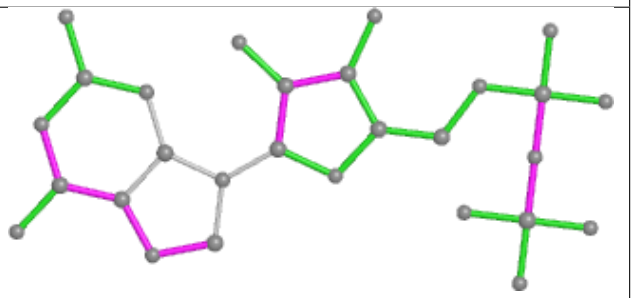
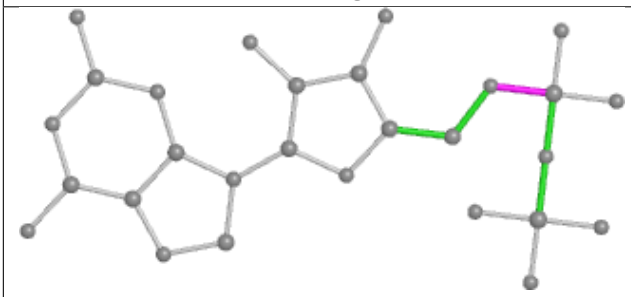


Bond angles



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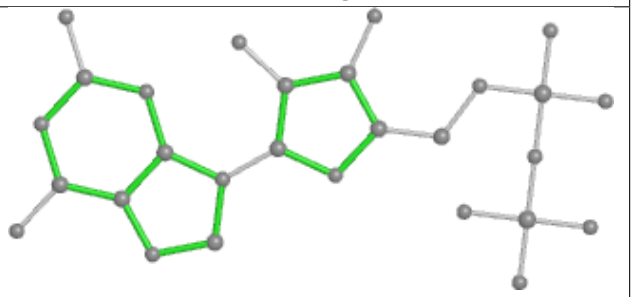

Rings

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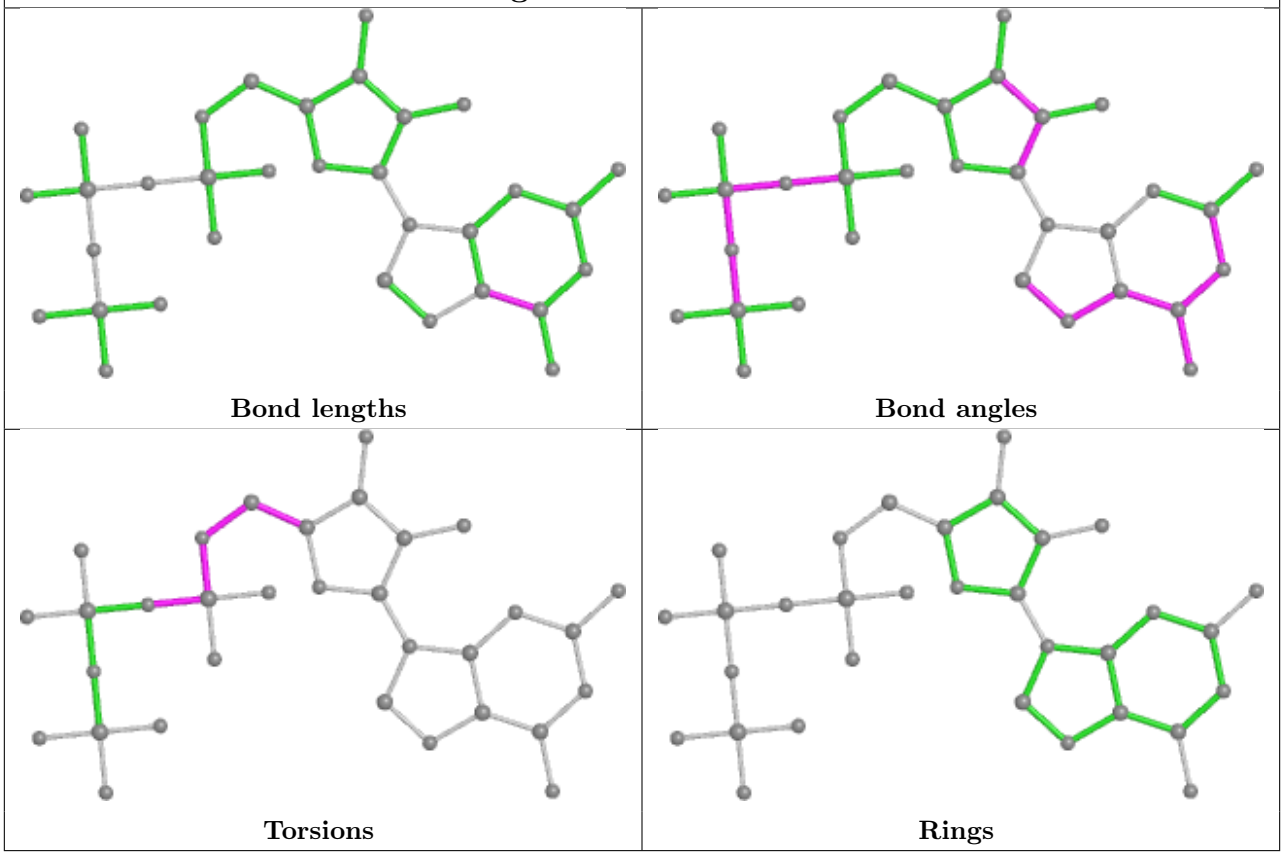

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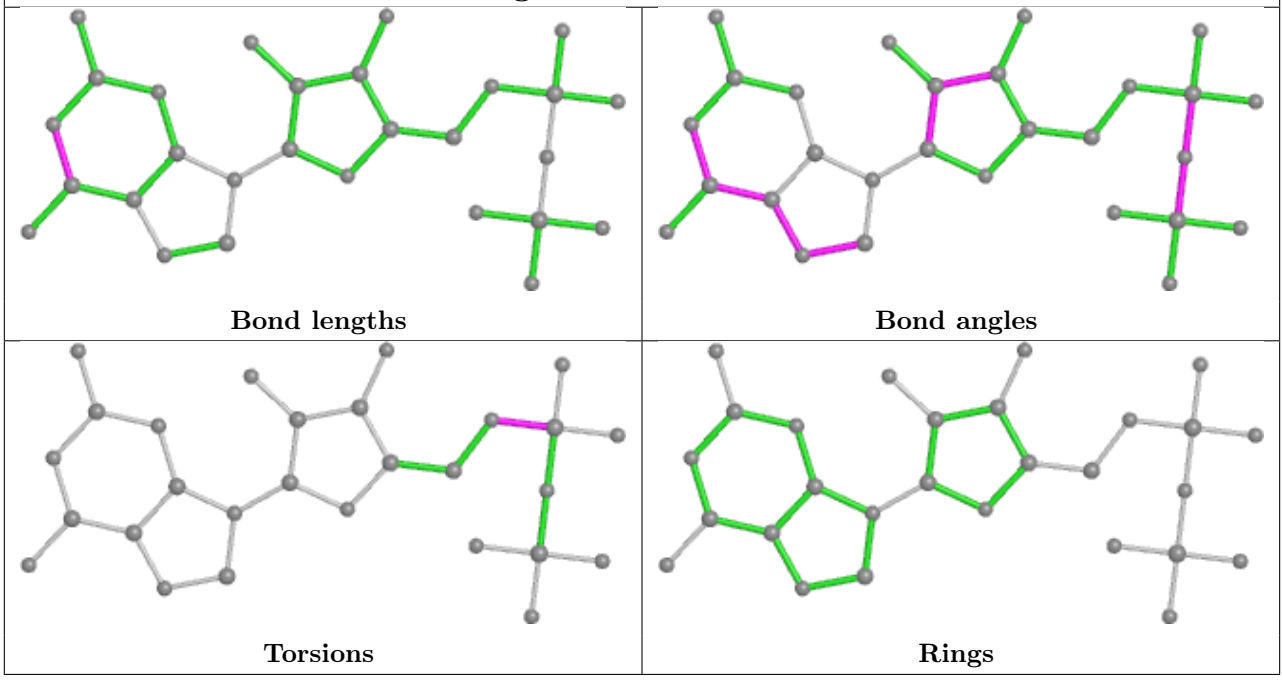

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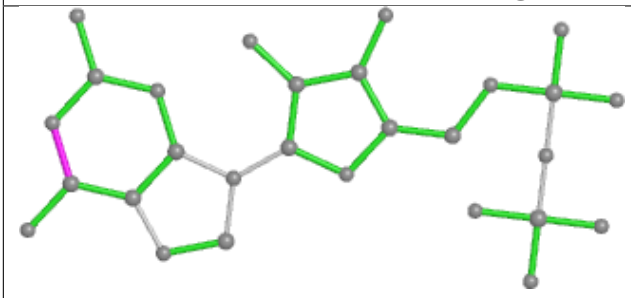
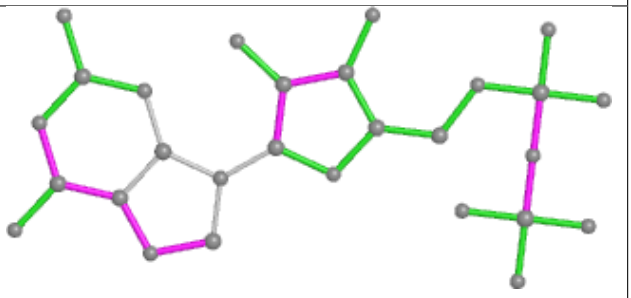
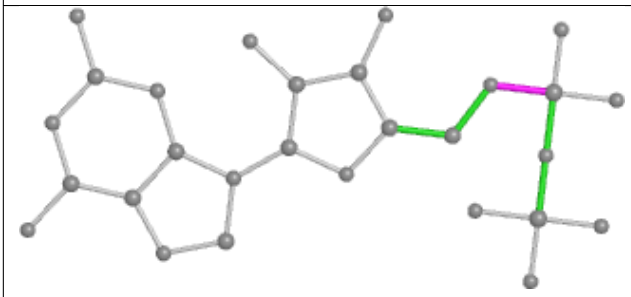
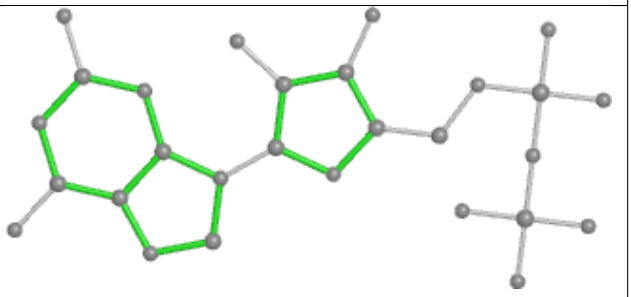
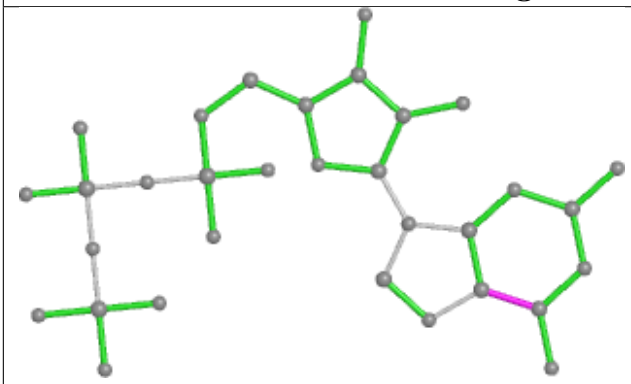
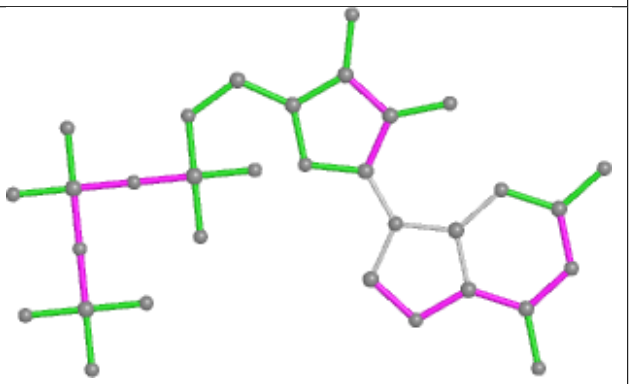
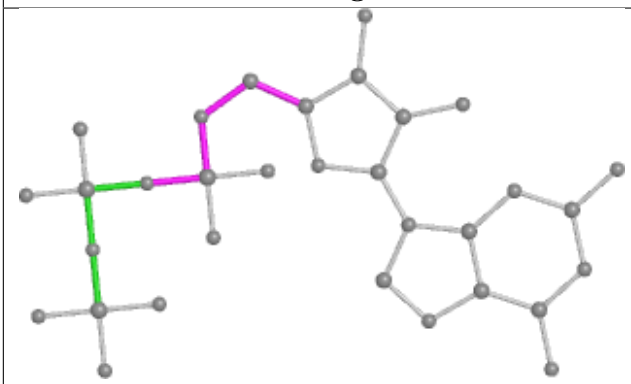
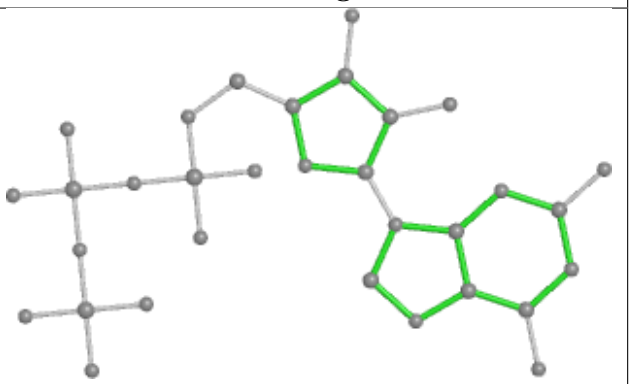
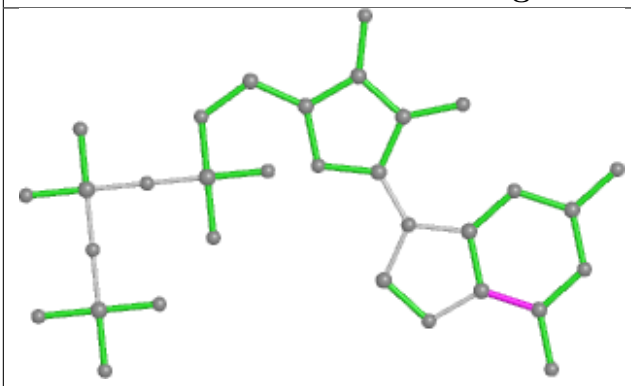
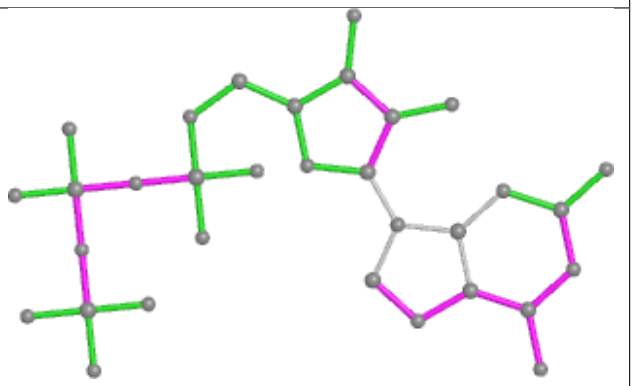
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP 3F 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

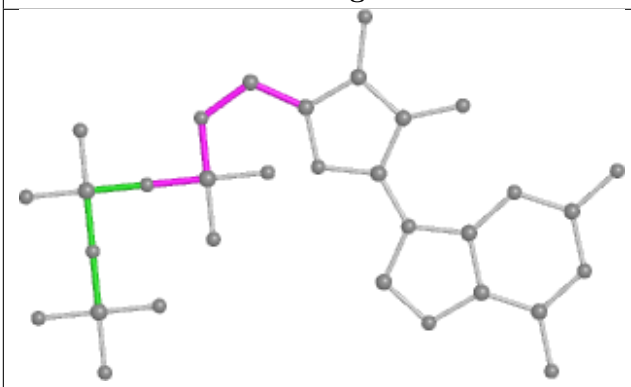
Ligand GTP 3K 501



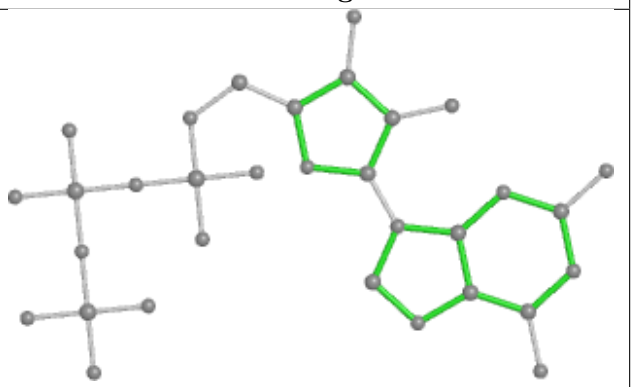
Bond lengths



Bond angles

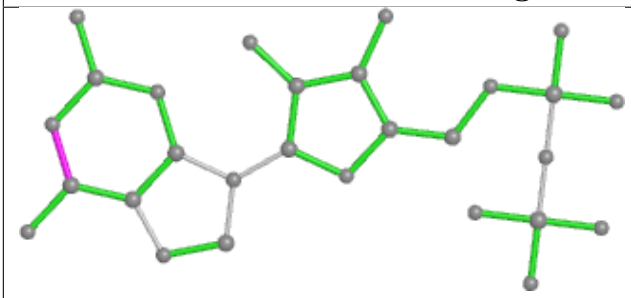


Torsions



Rings

Ligand GDP 4P 501



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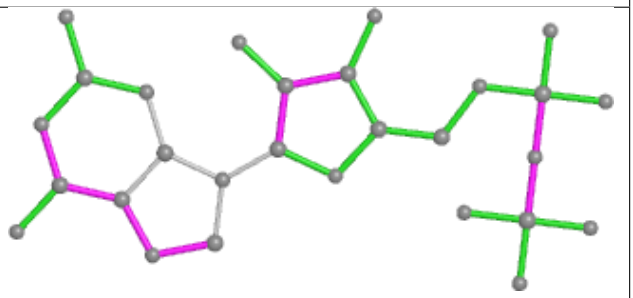
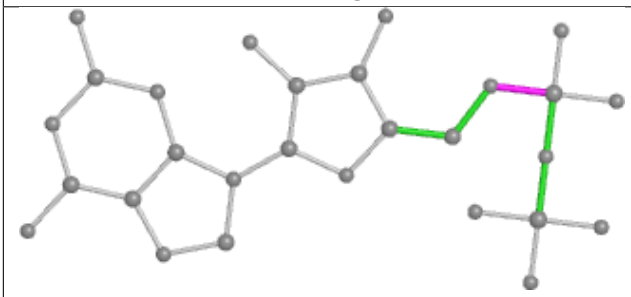


Bond angles



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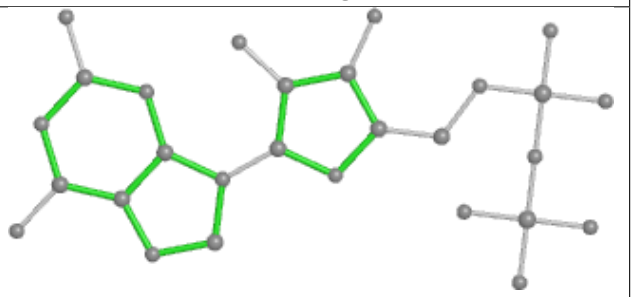
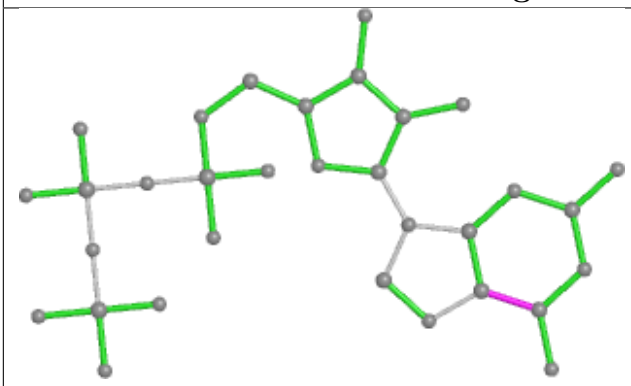


Rings

Ligand GTP 3A 501



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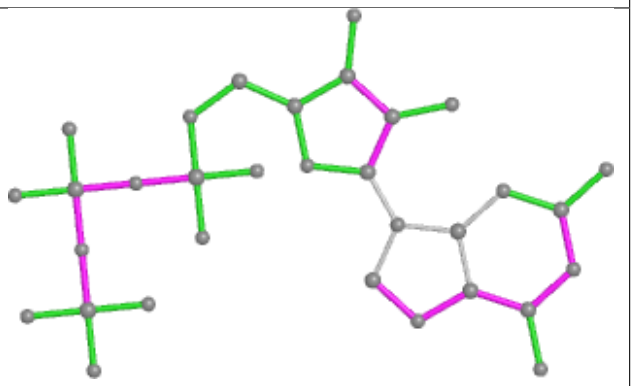
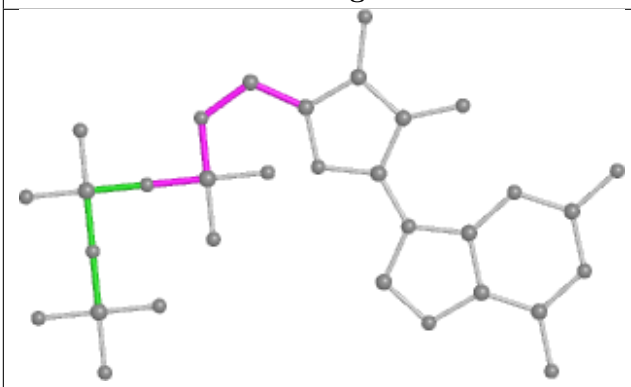


Bond angles



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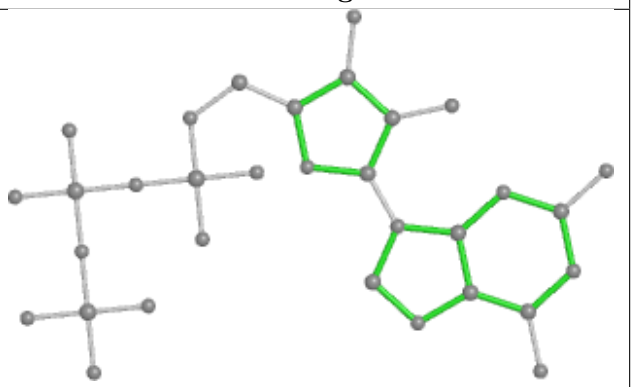
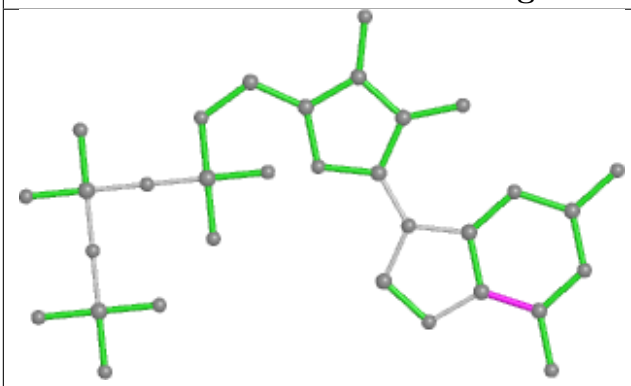


Rings

Ligand GTP 3J 501



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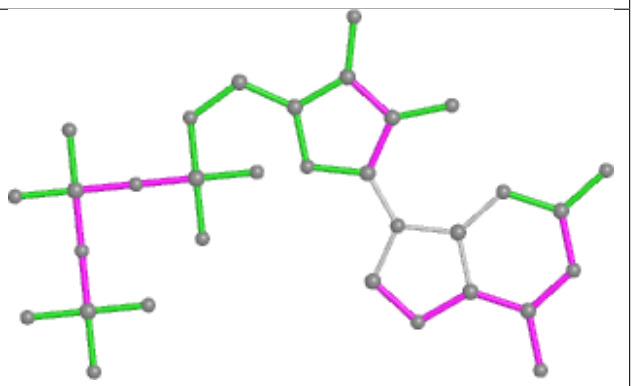
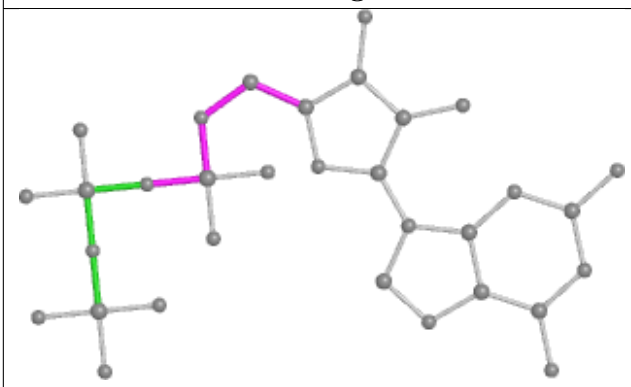


Bond angles



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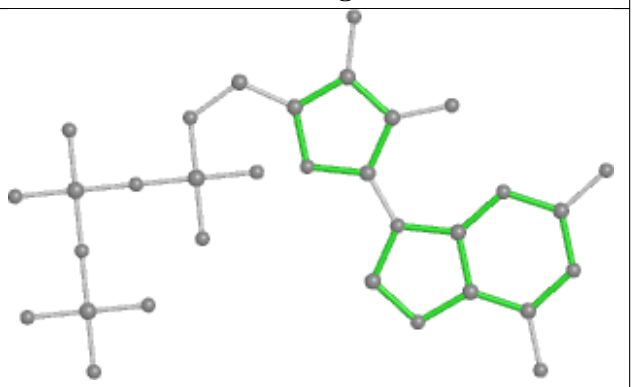
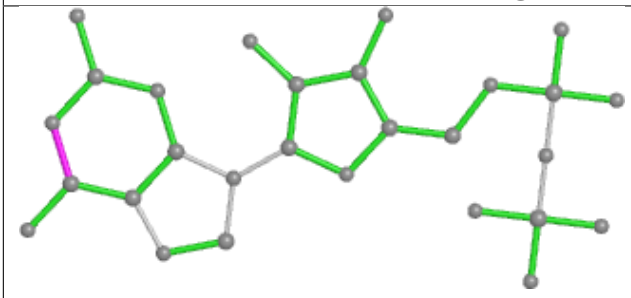
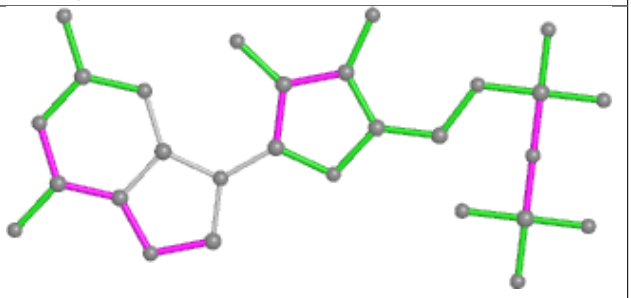
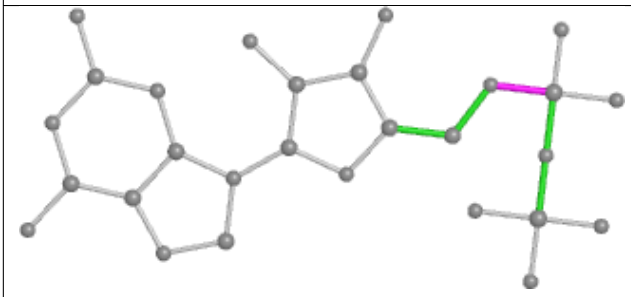
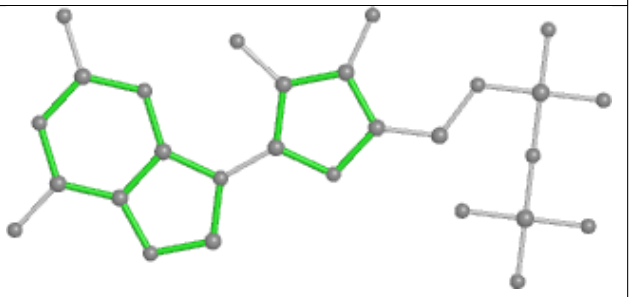
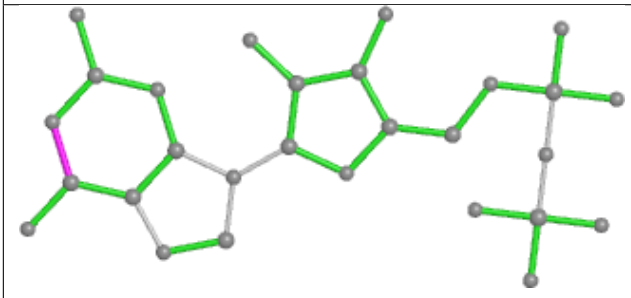
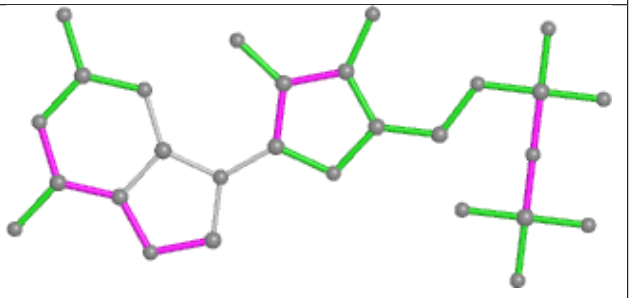
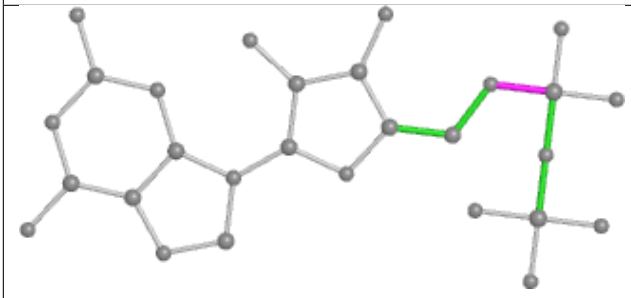
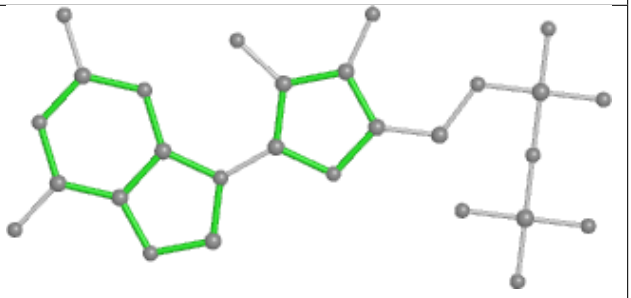
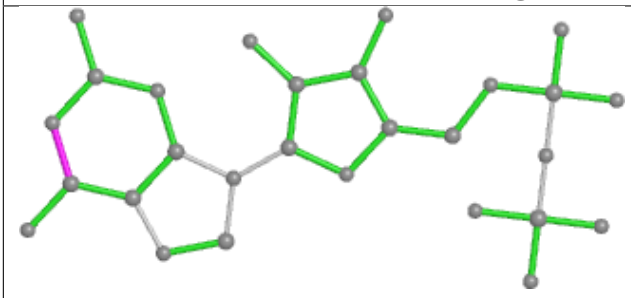


Rings

Ligand GDP 1Q 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP 2U 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP 3O 501



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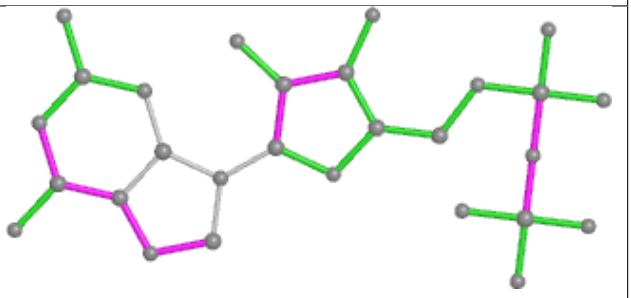

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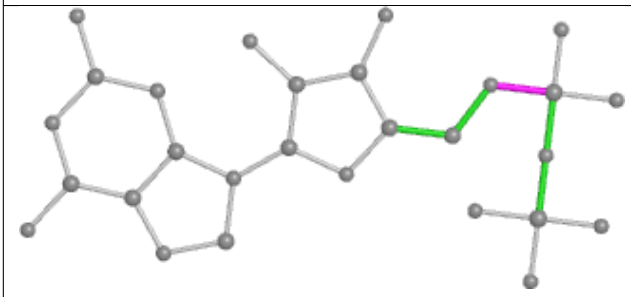

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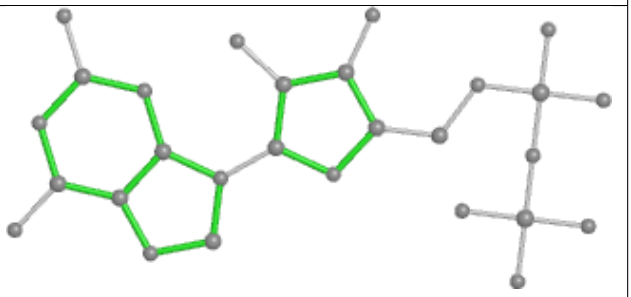

Rings

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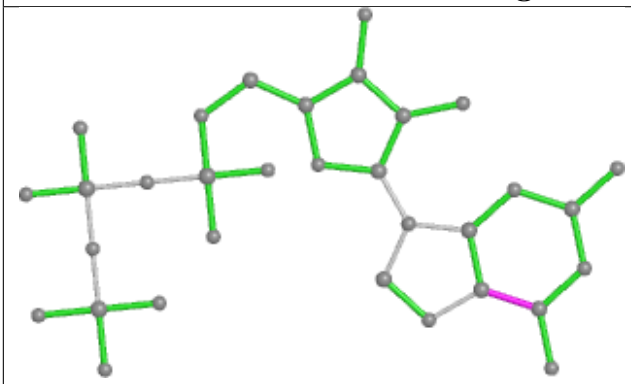

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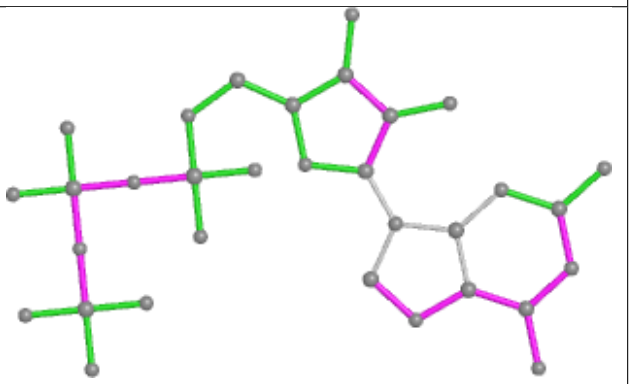

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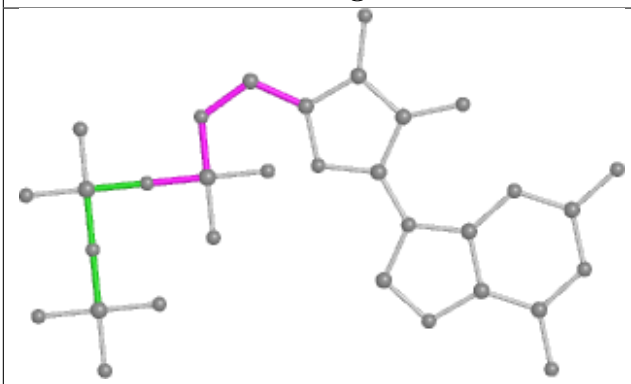

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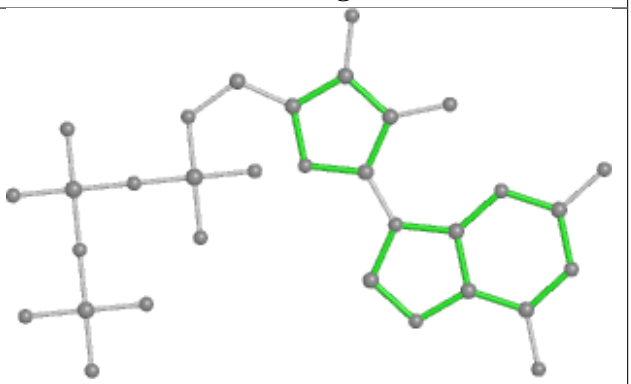

Rings

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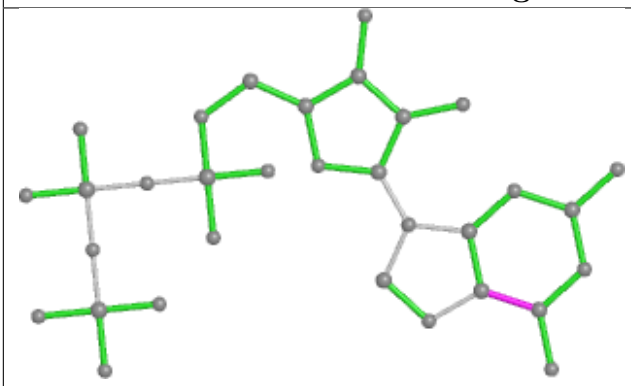

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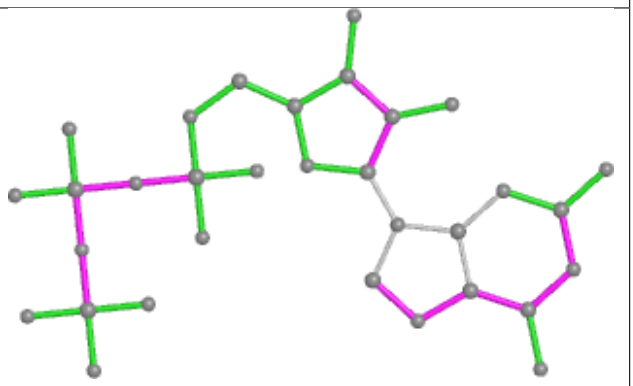

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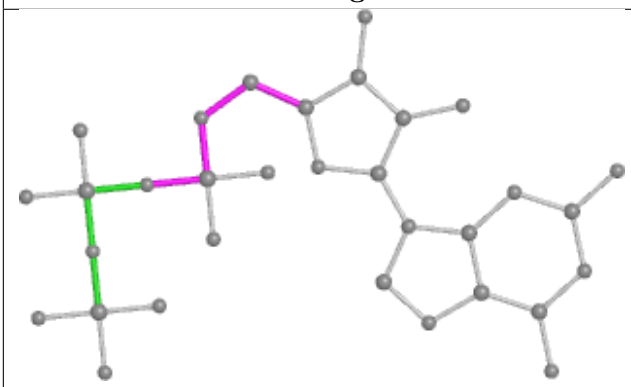

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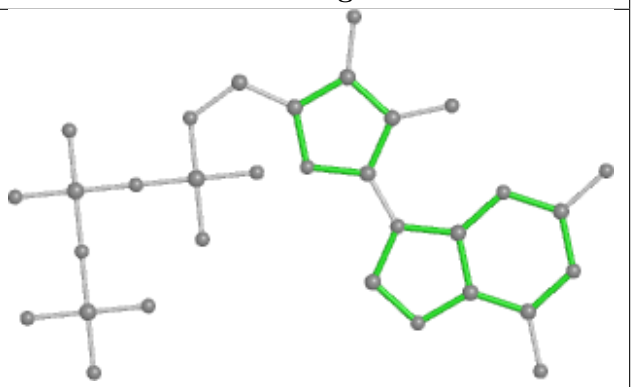

Rings

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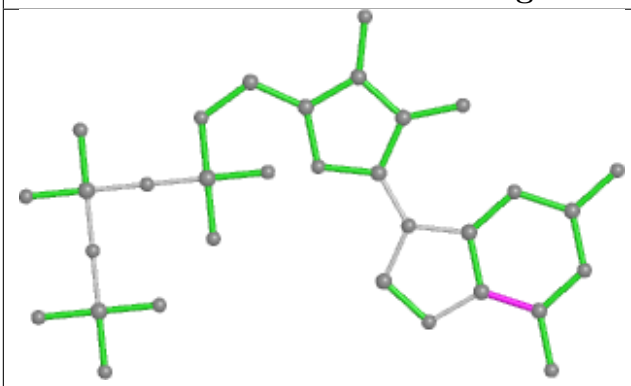

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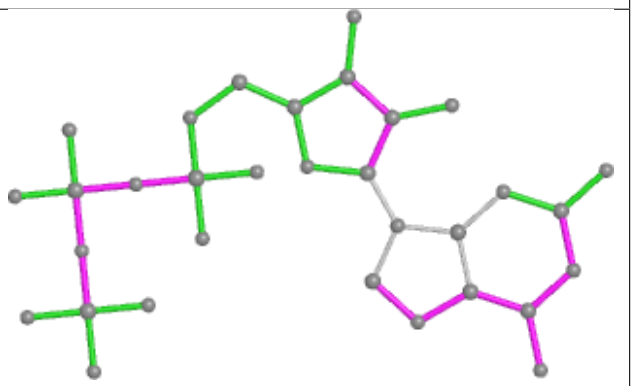

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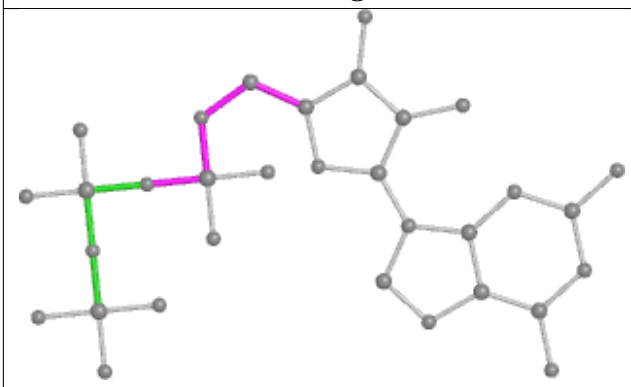

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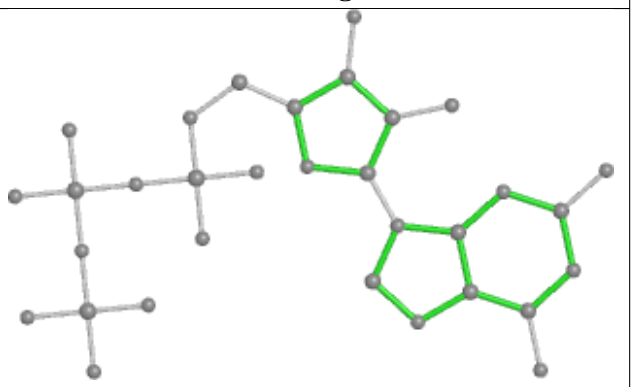

Rings

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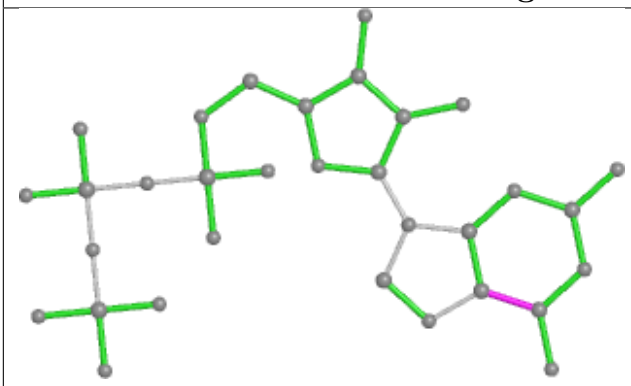

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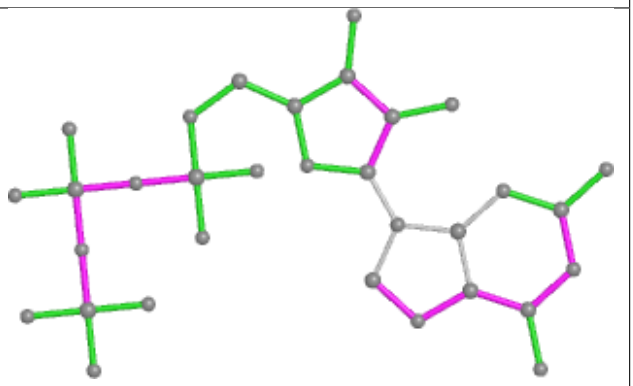

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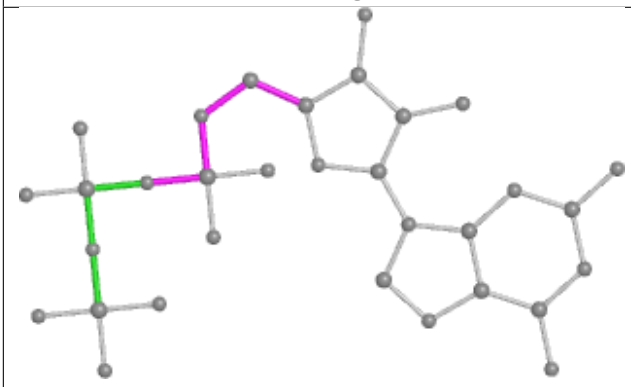

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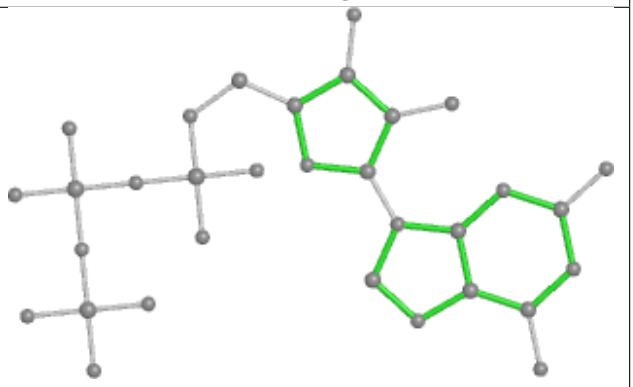
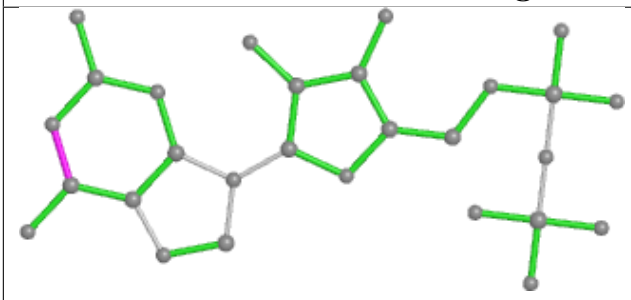


Rings

Ligand GDP 2Z 501



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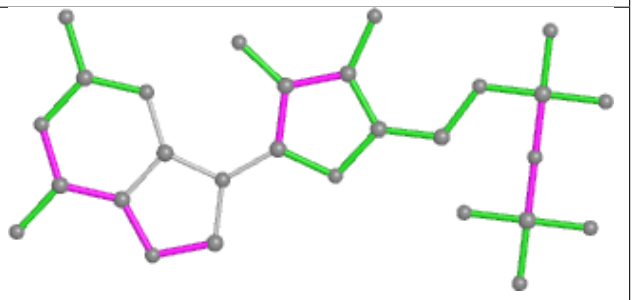

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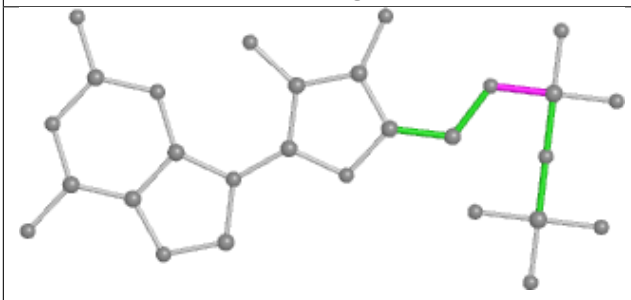

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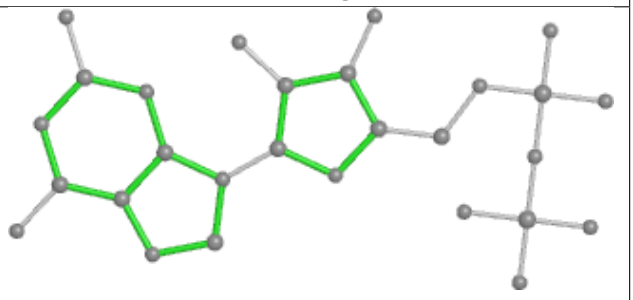

Rings

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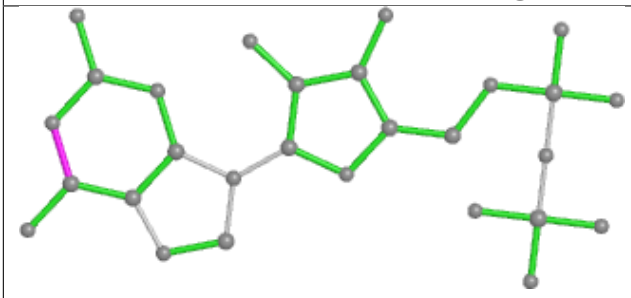
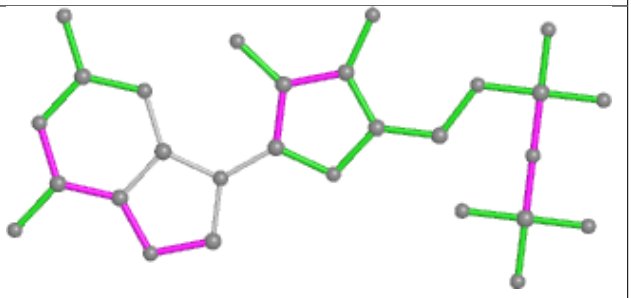
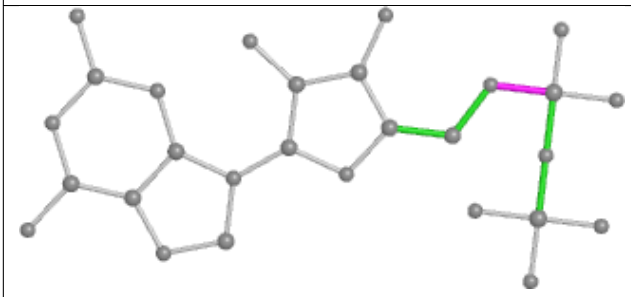
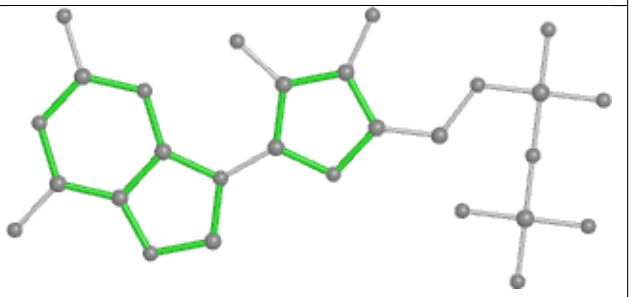
 Bond lengths	 Bond angles
 Torsions	 Rings

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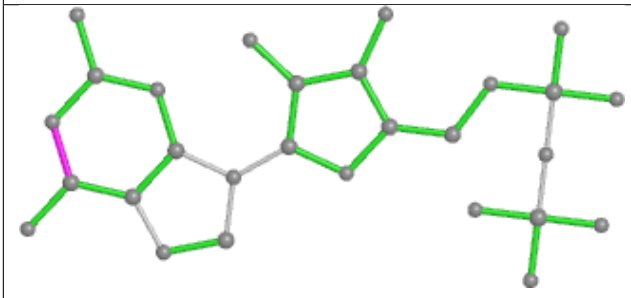
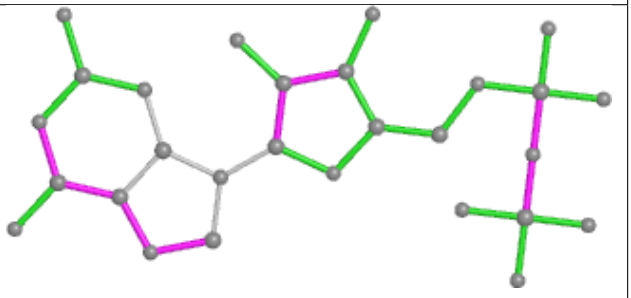
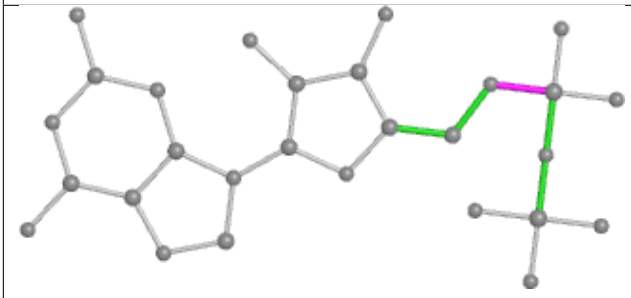
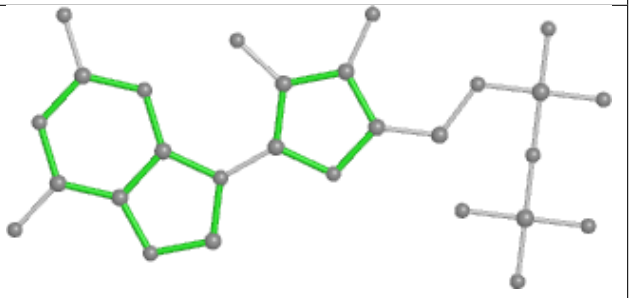
 Bond lengths	 Bond angles
 Torsions	 Rings

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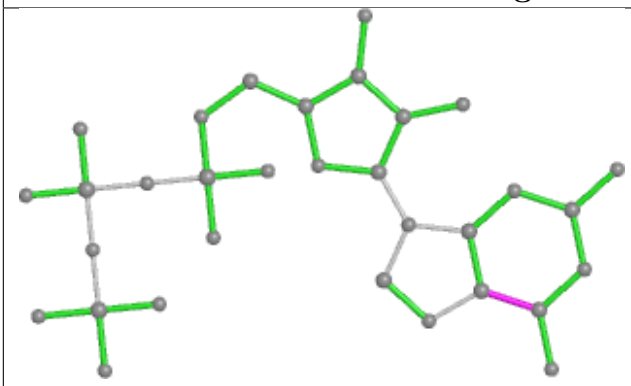

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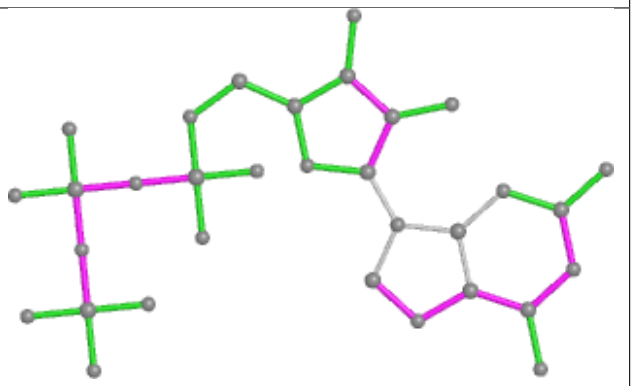
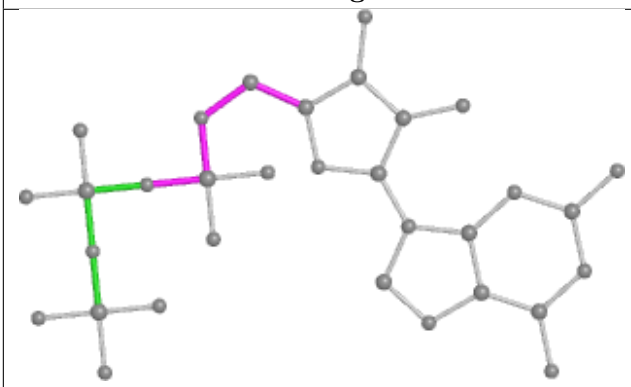
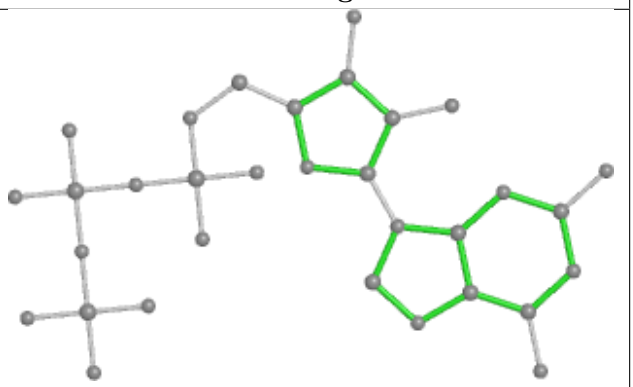


Bond angles



Torsions



Rings

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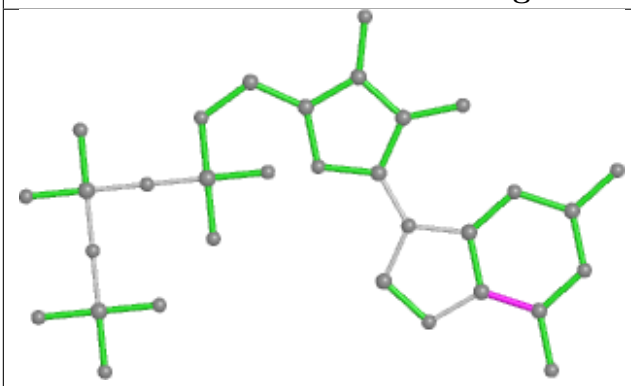

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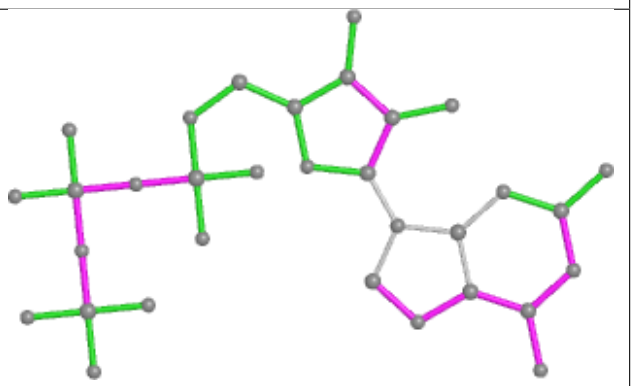

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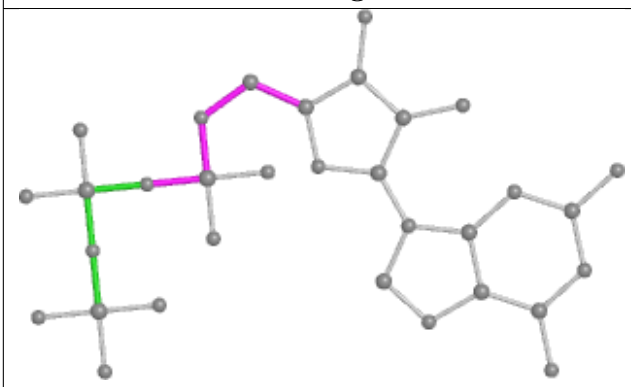

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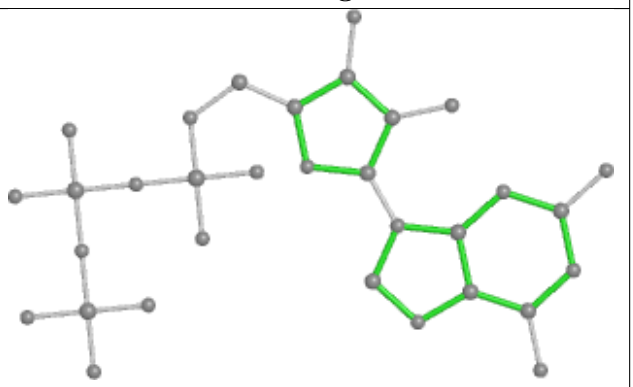

Rings

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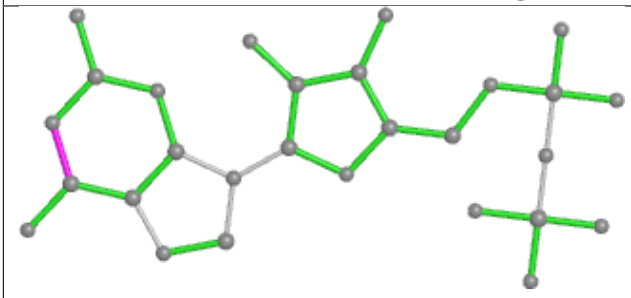
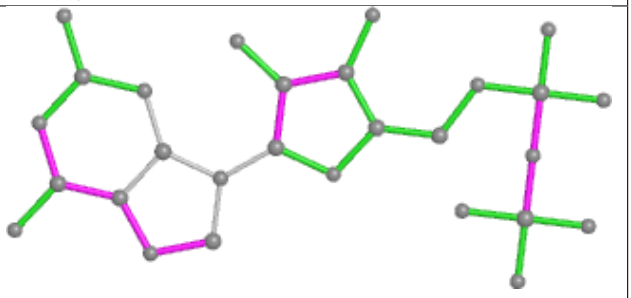
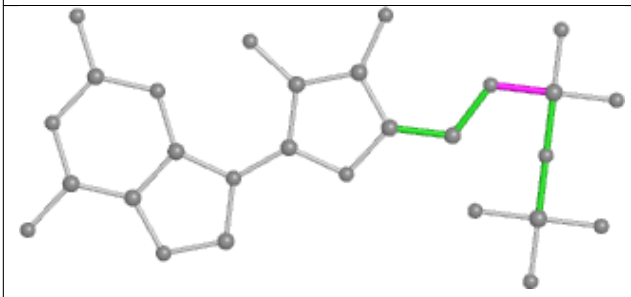
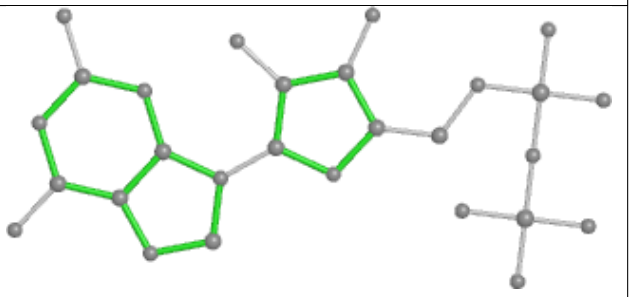
 Bond lengths	 Bond angles
 Torsions	 Rings

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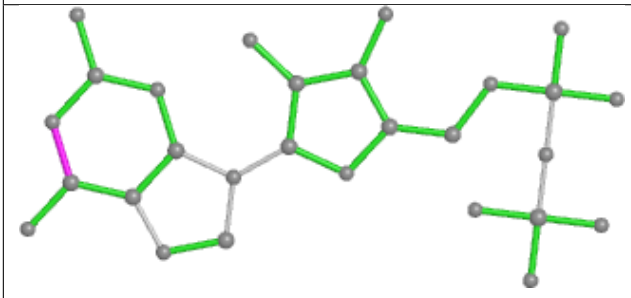
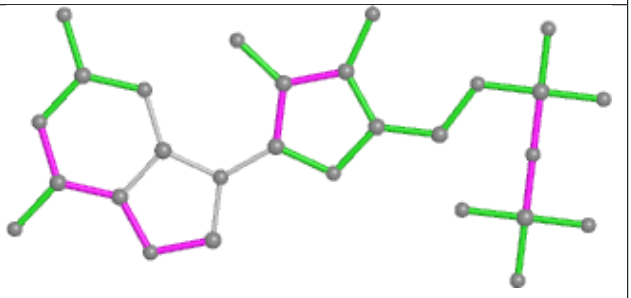
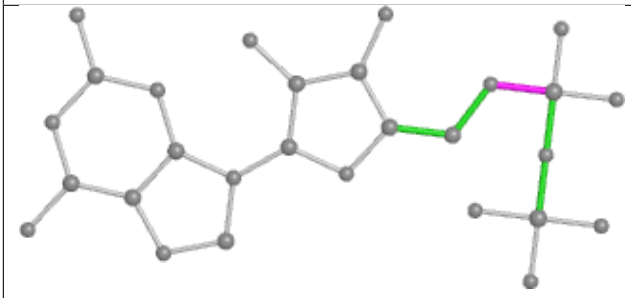
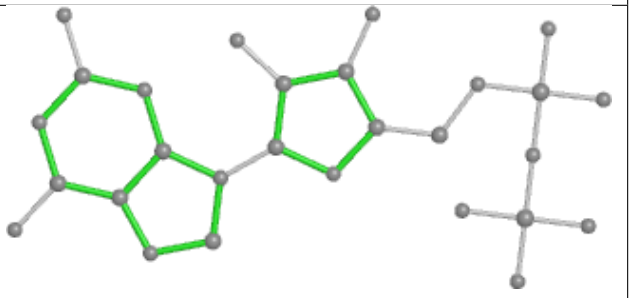
 Bond lengths	 Bond angles
 Torsions	 Rings

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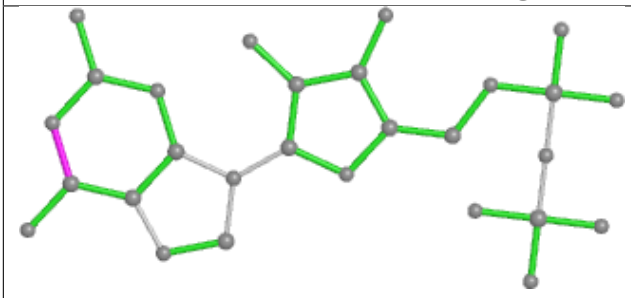

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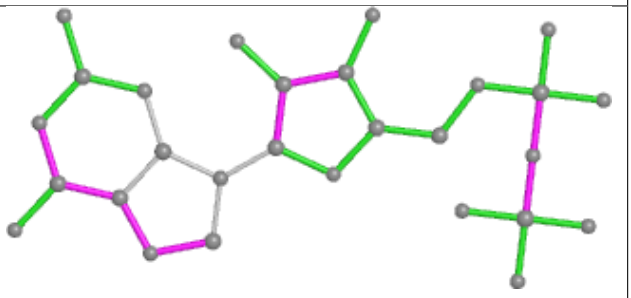

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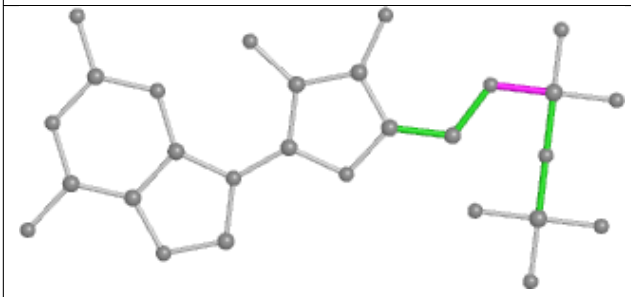

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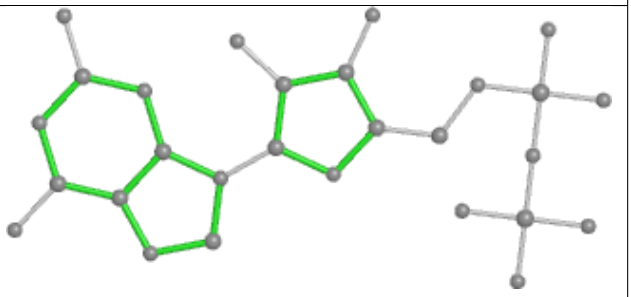

Rings

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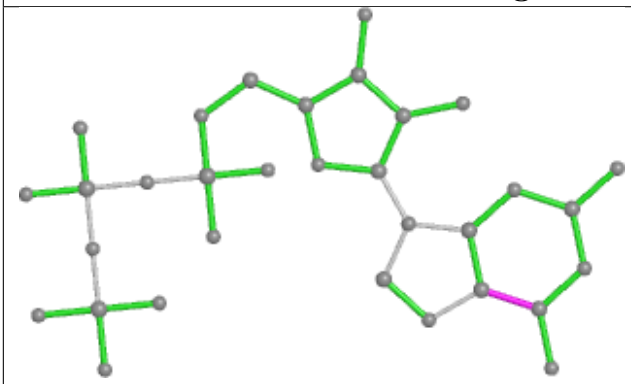

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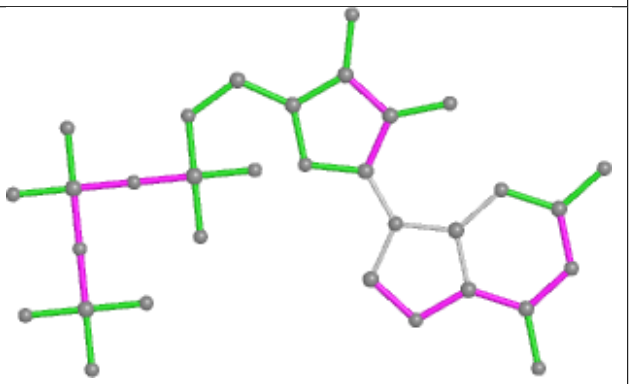

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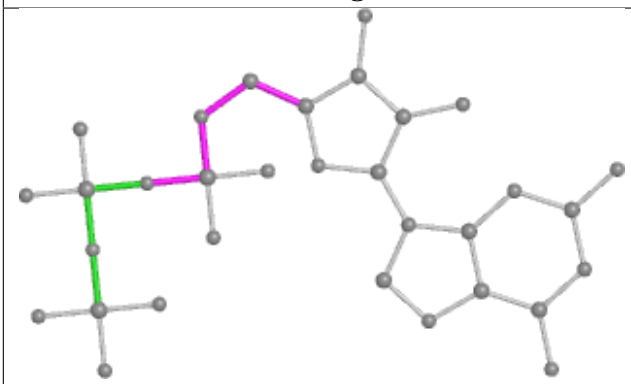

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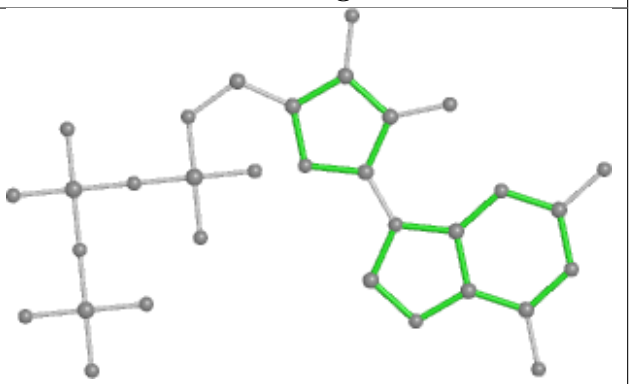

Rings

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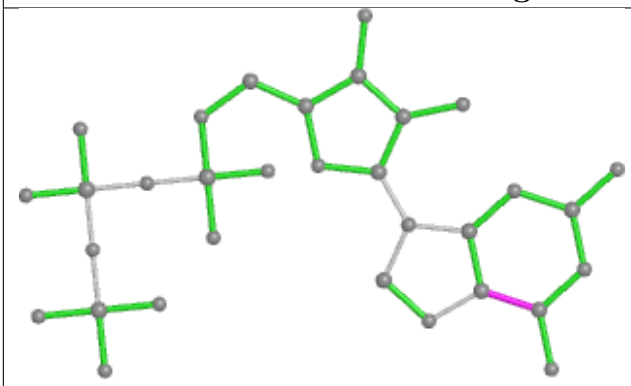

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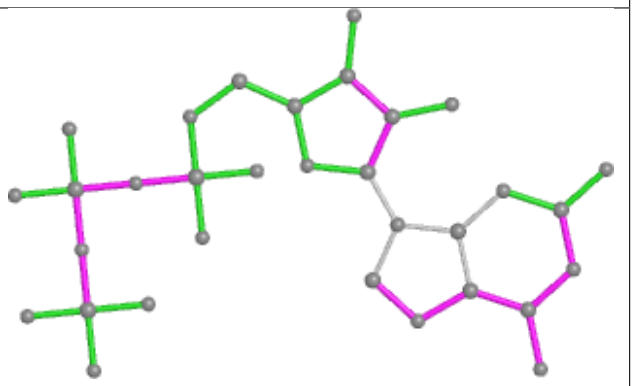

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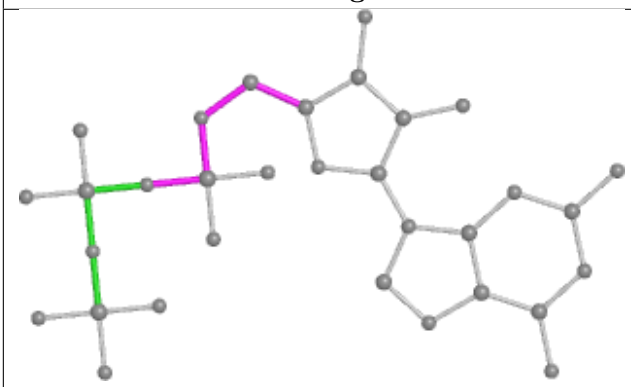

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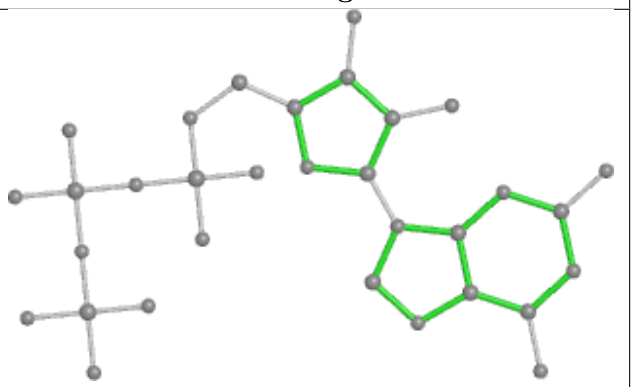

Rings

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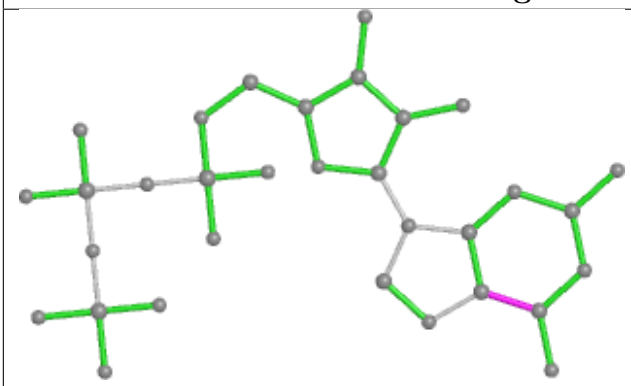

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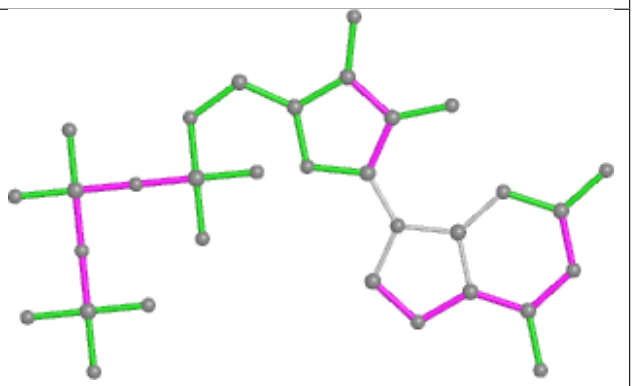

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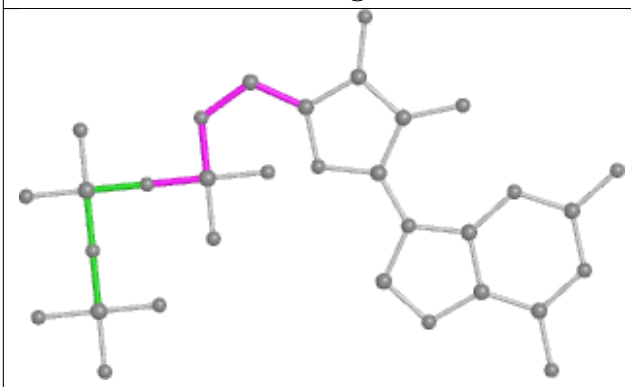

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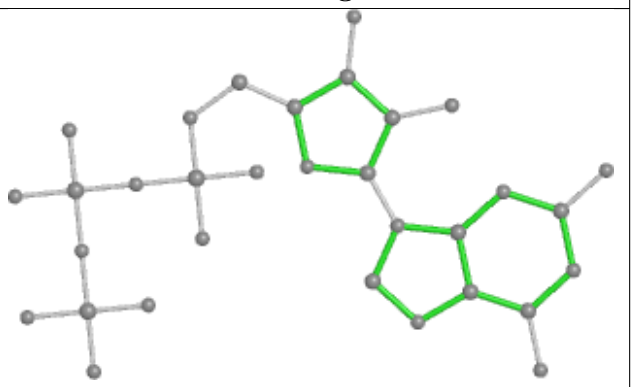

Rings

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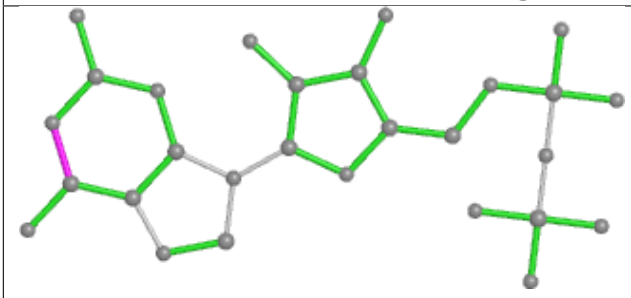	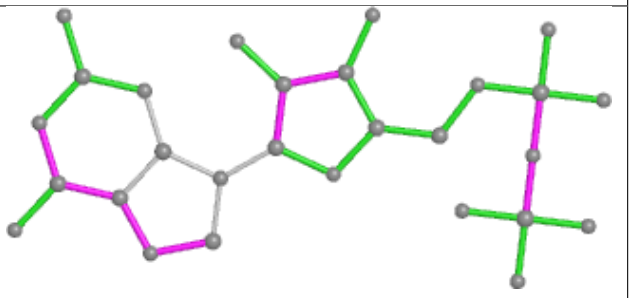
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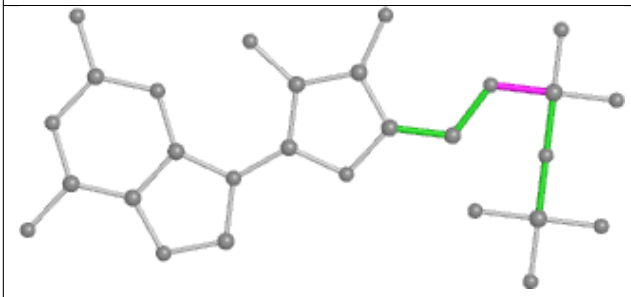	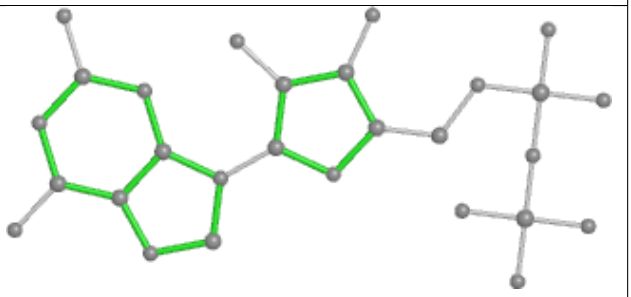
Torsions	Rings

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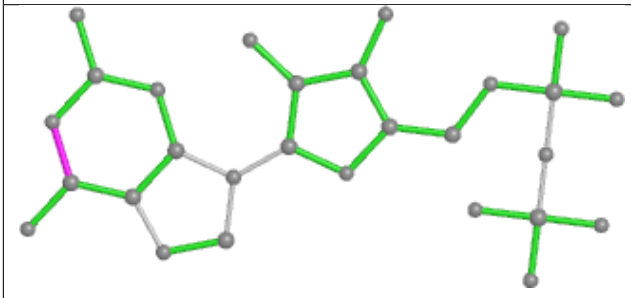	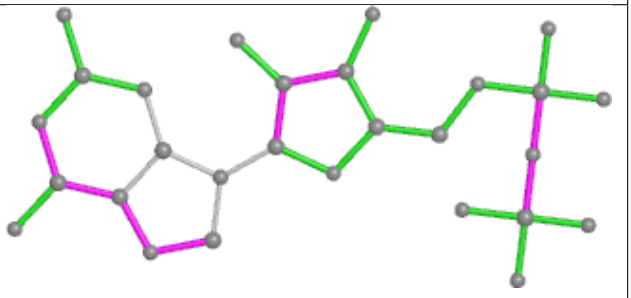
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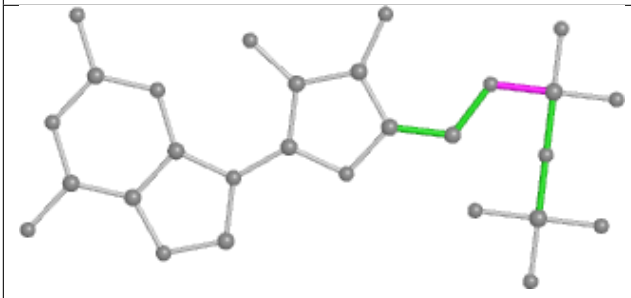	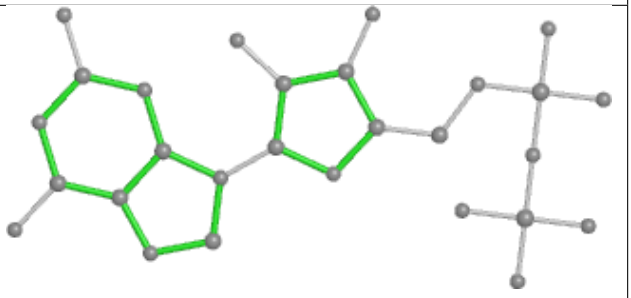
Torsions	Rings

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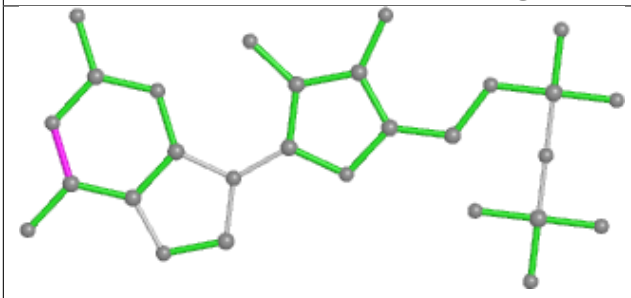
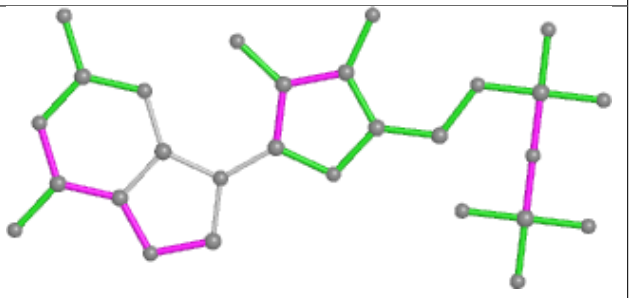
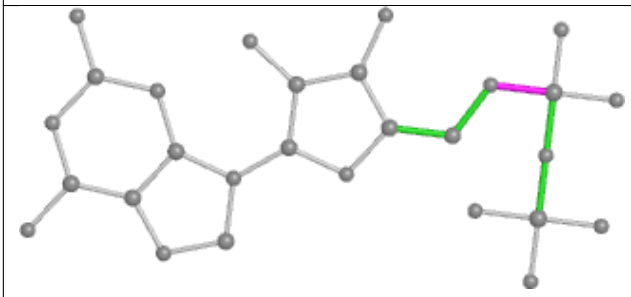
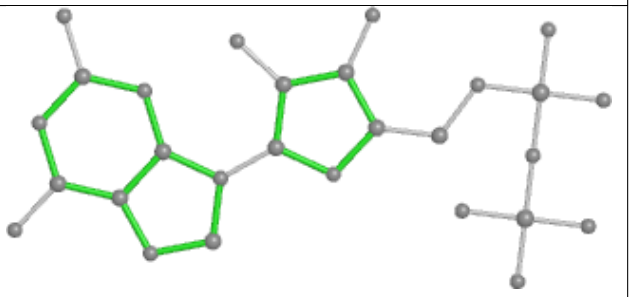
 Bond lengths	 Bond angles
 Torsions	 Rings

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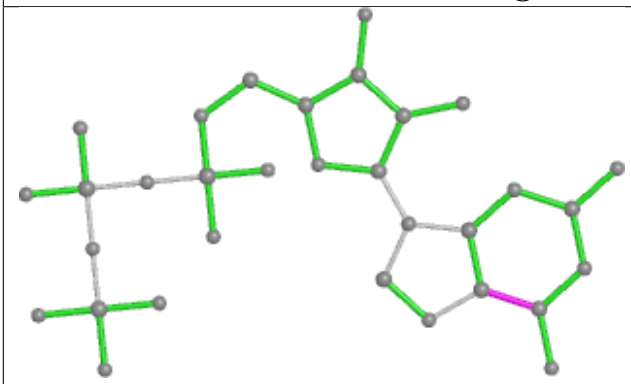
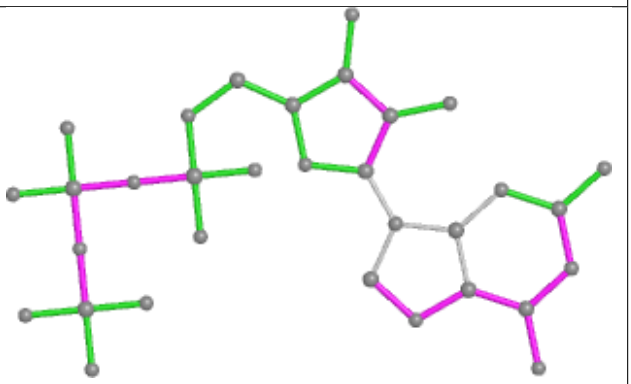
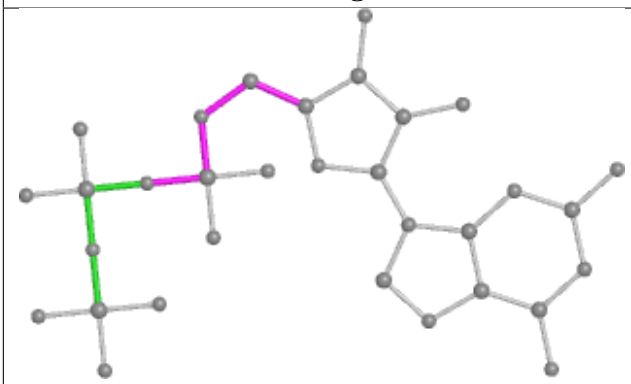
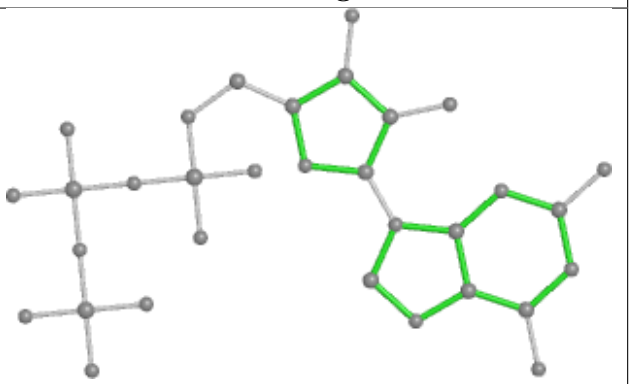
 Bond lengths	 Bond angles
 Torsions	 Rings

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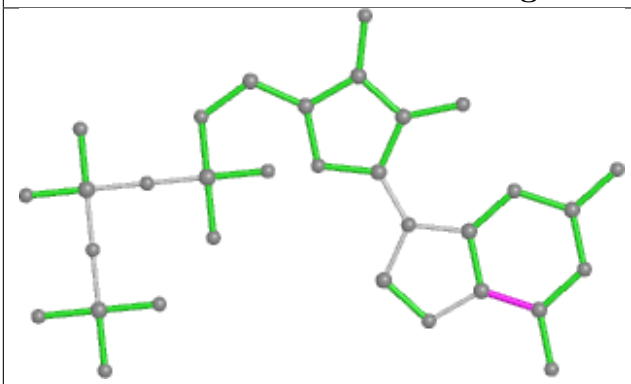

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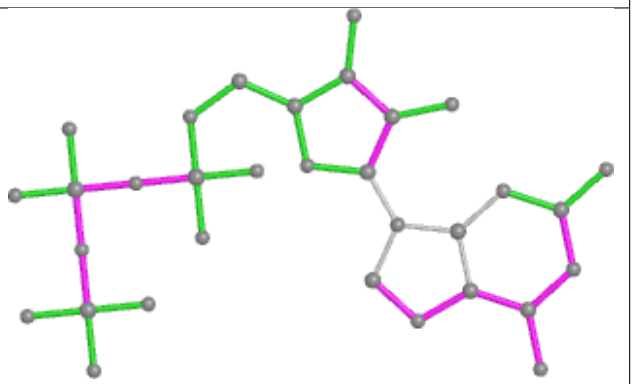

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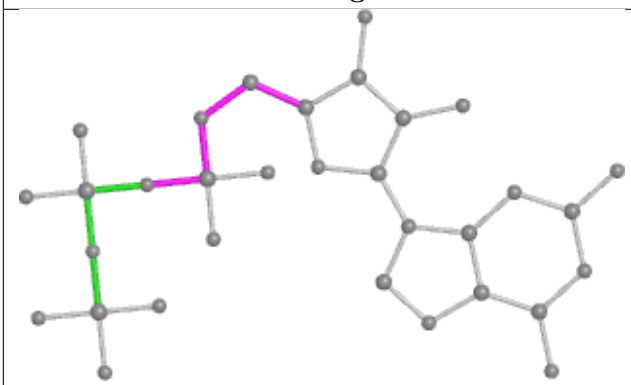

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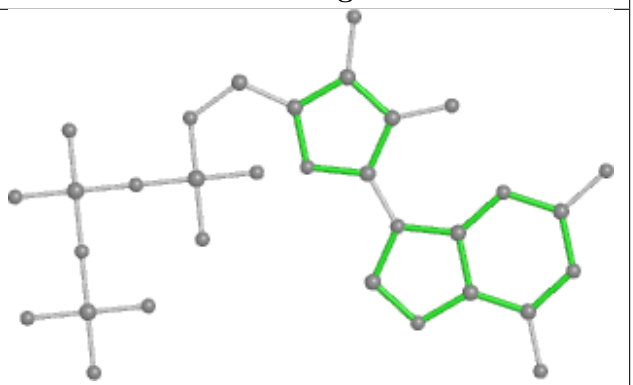

Rings

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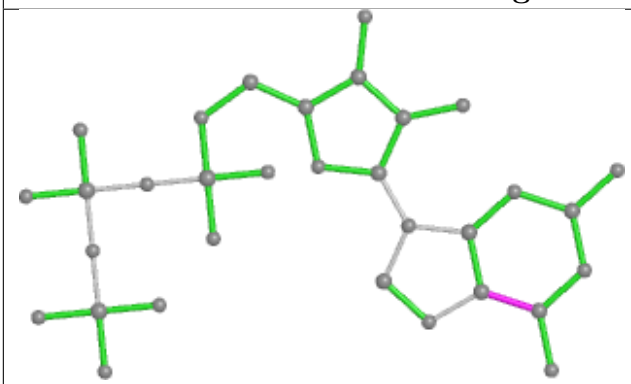

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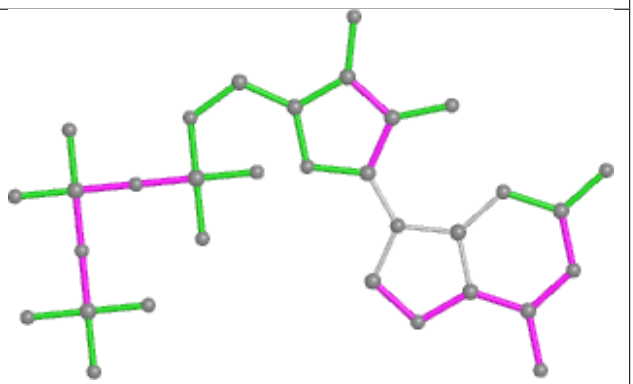

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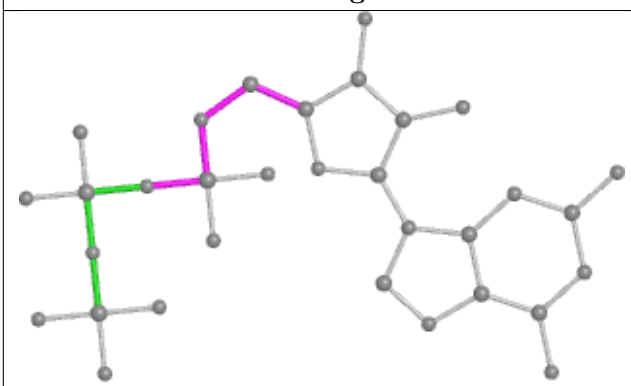

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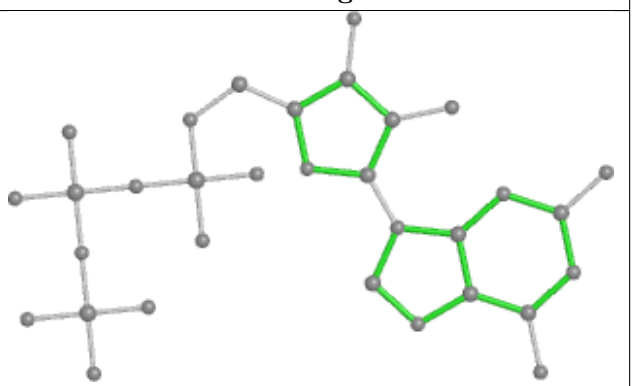

Rings

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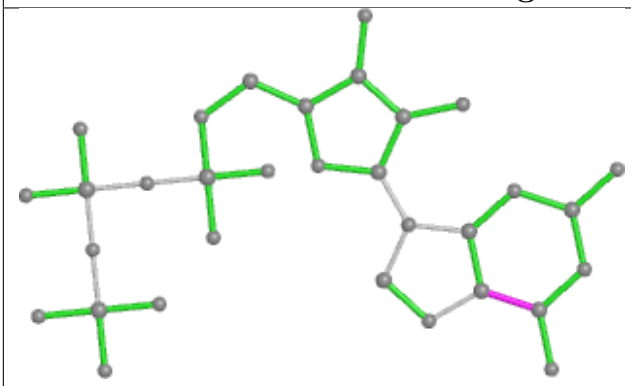

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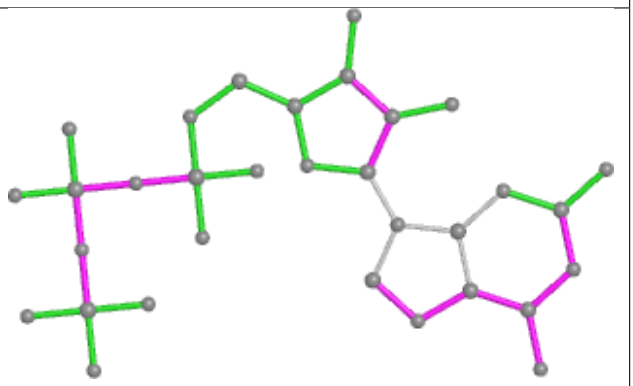
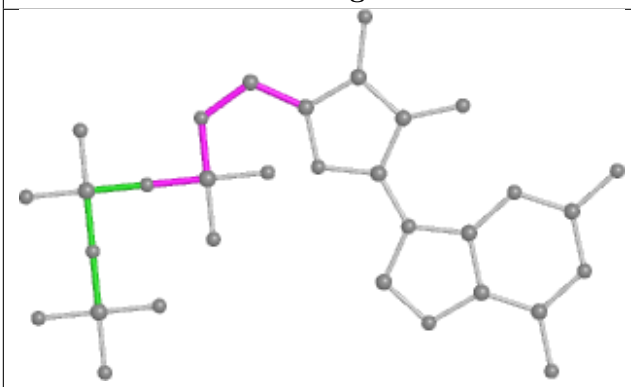
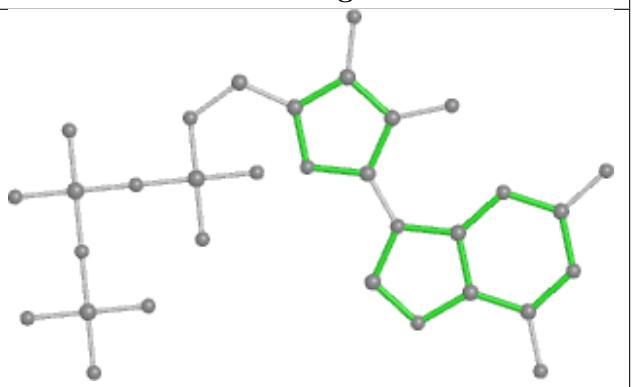


Bond angles

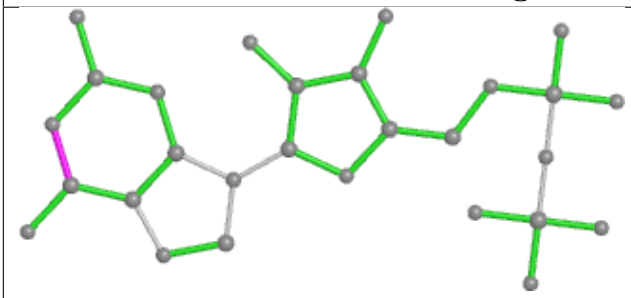


Torsions



Rings

Ligand GDP 3Q 501



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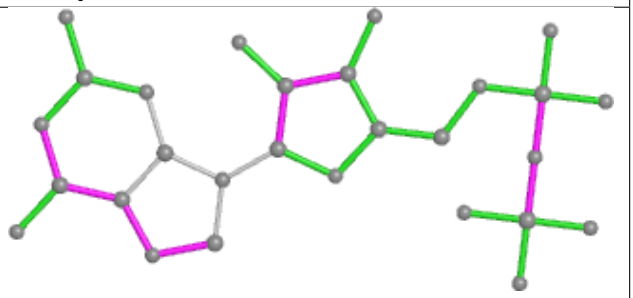

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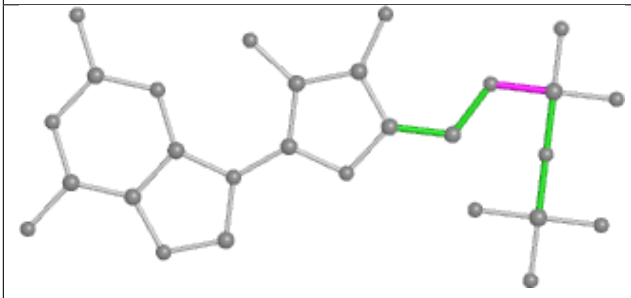

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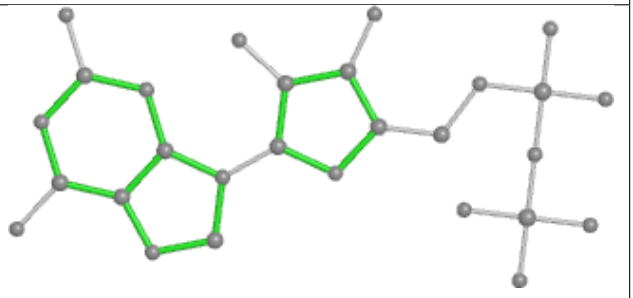

Rings

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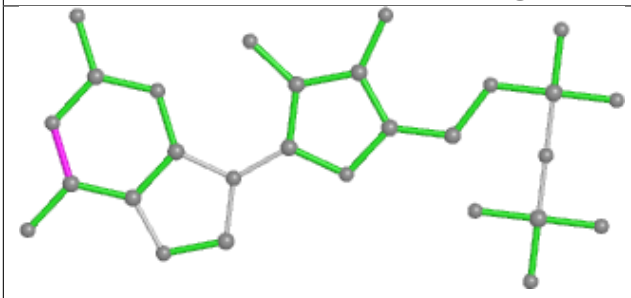
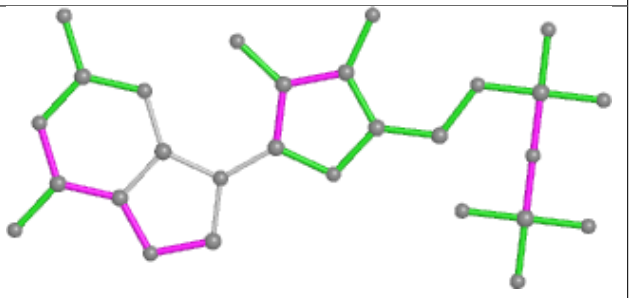
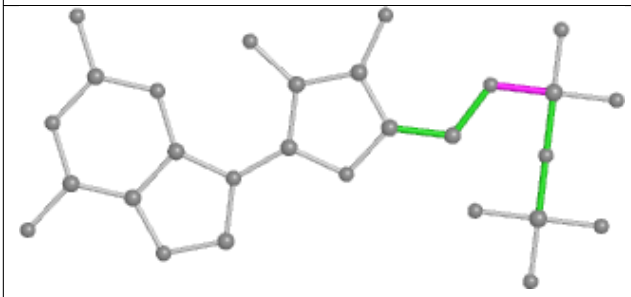
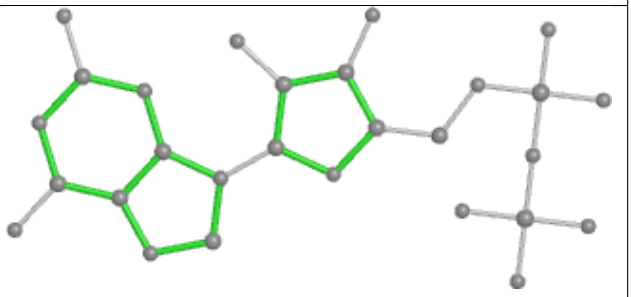
 Bond lengths	 Bond angles
 Torsions	 Rings

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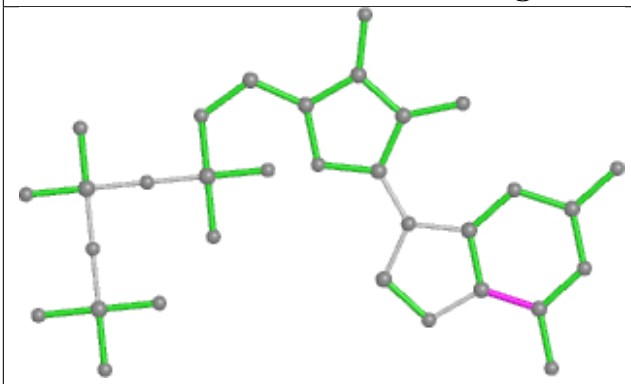
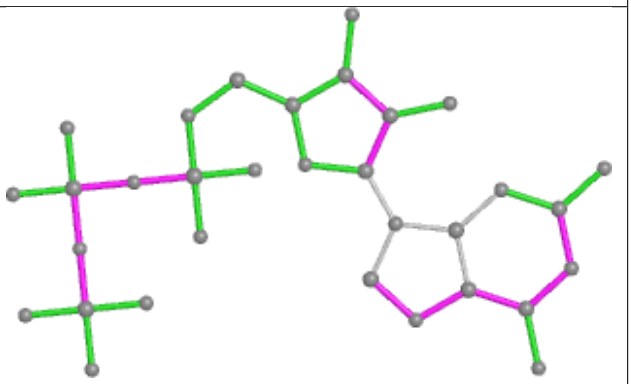
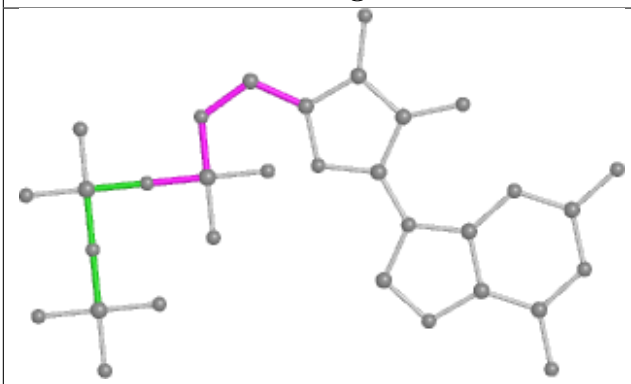
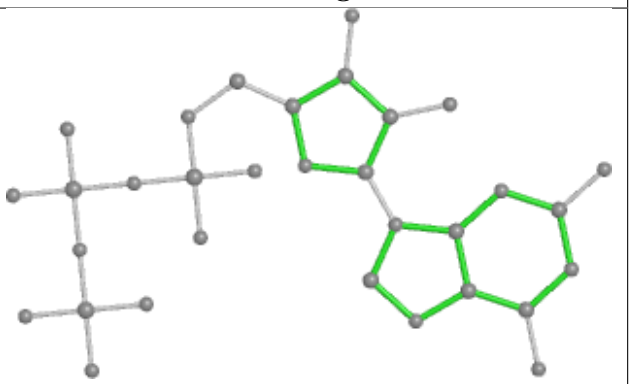
 Bond lengths	 Bond angles
 Torsions	 Rings

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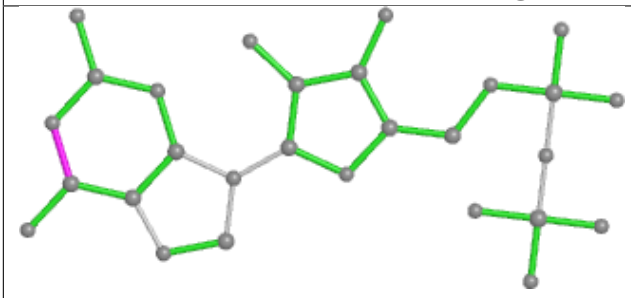
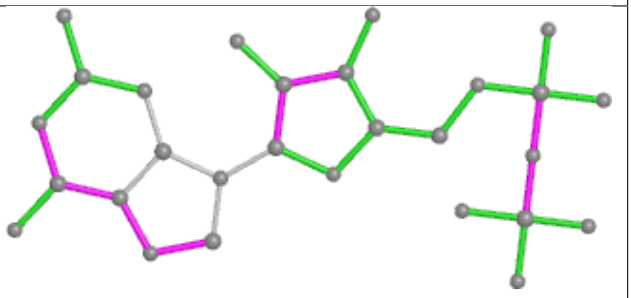
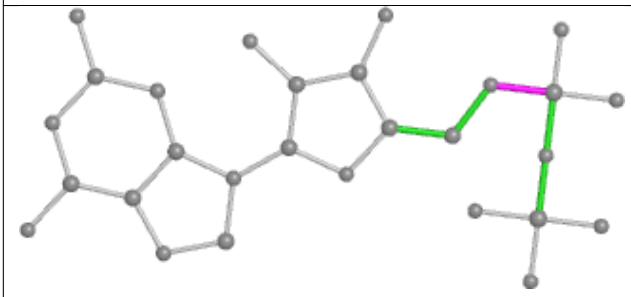
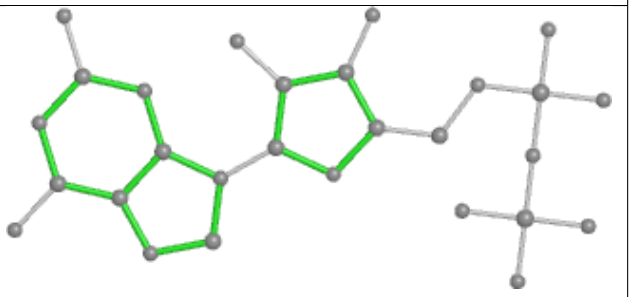
 Bond lengths	 Bond angles
 Torsions	 Rings

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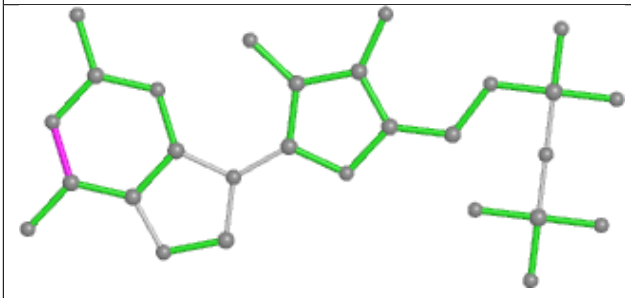
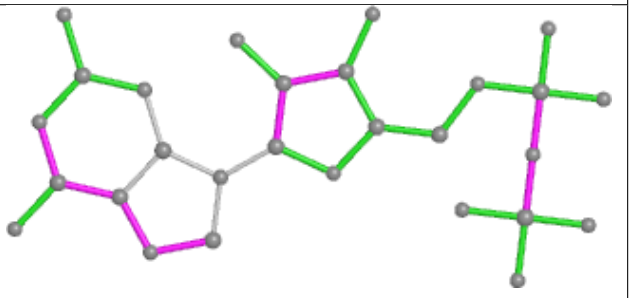
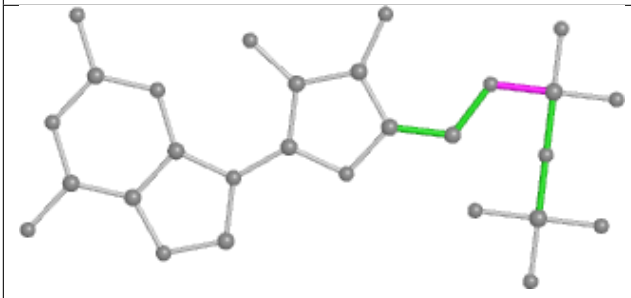
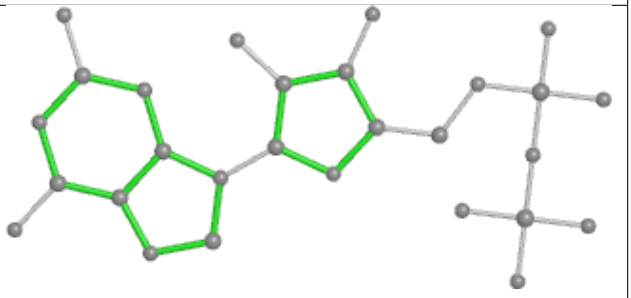
 Bond lengths	 Bond angles
 Torsions	 Rings

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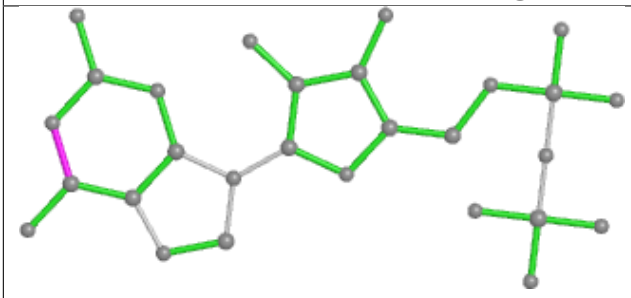
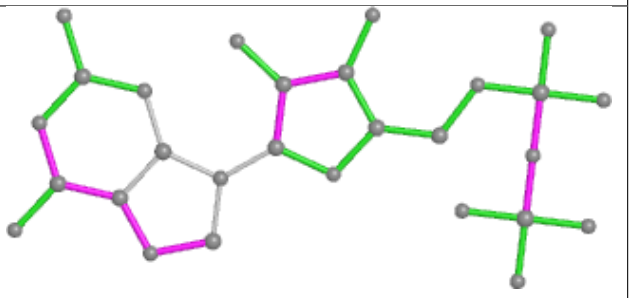
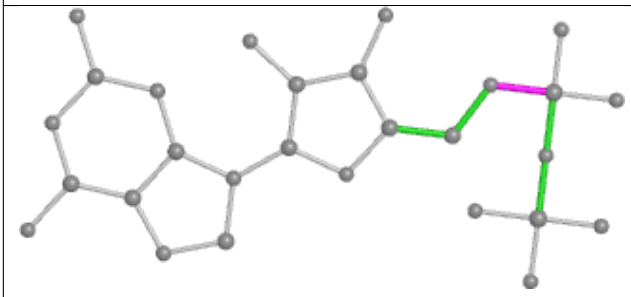
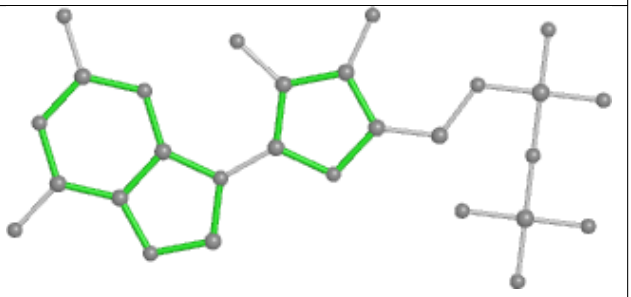
 Bond lengths	 Bond angles
 Torsions	 Rings

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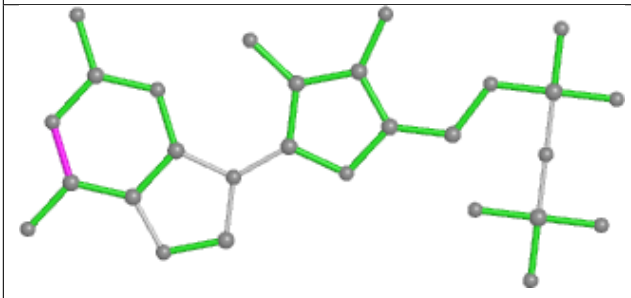
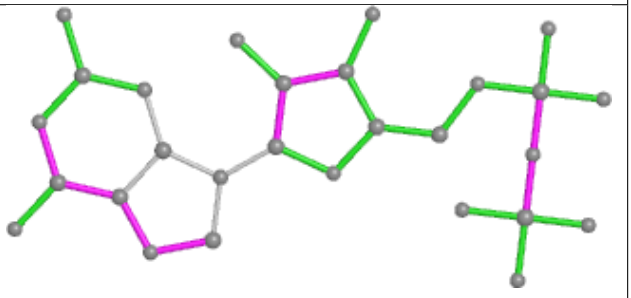
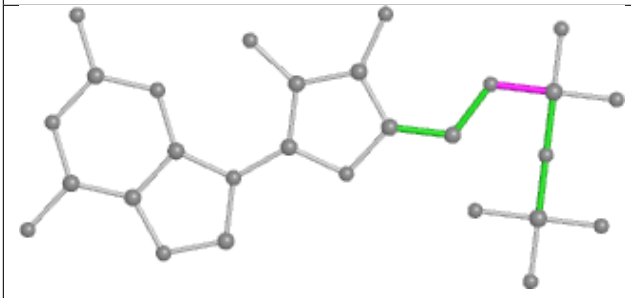
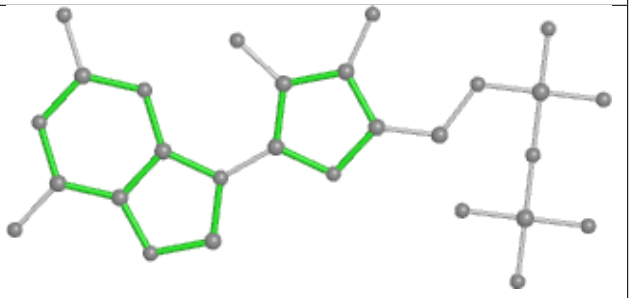
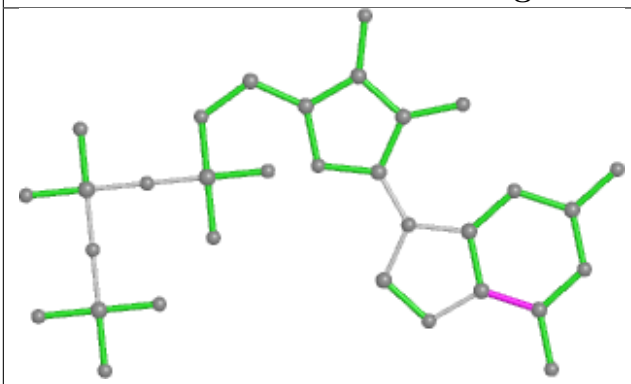
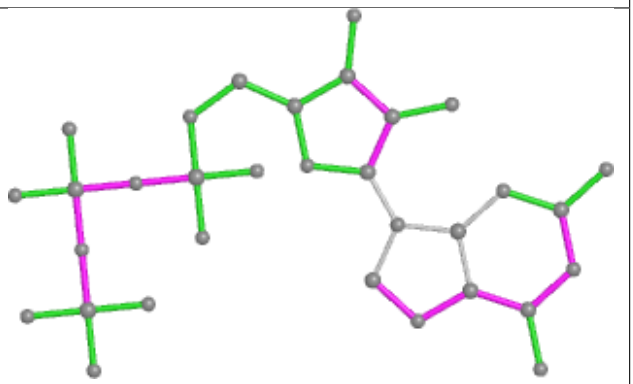
 Bond lengths	 Bond angles
 Torsions	 Rings

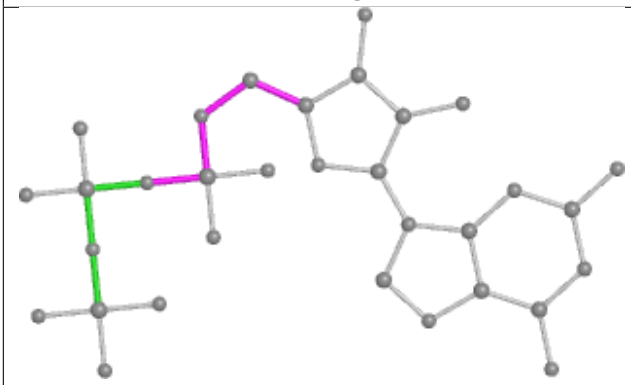
Ligand GTP 3B 501



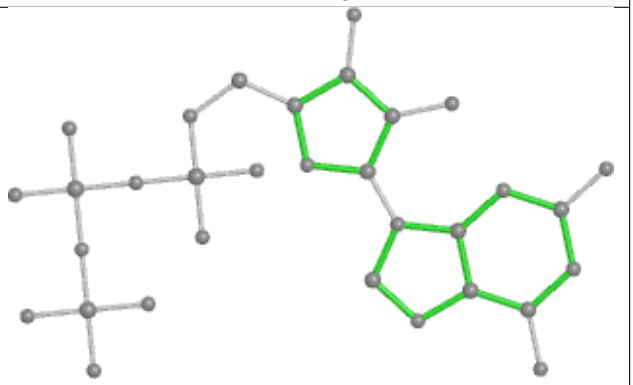
Bond lengths



Bond angles

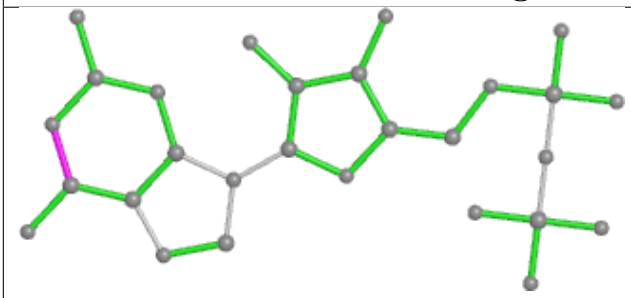


Torsions



Rings

Ligand GDP 2R 501



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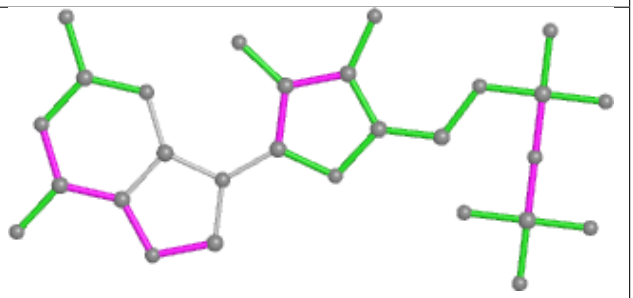

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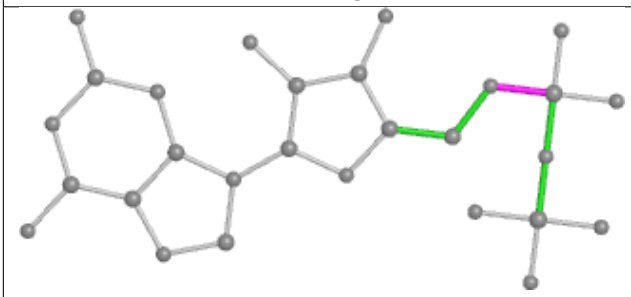

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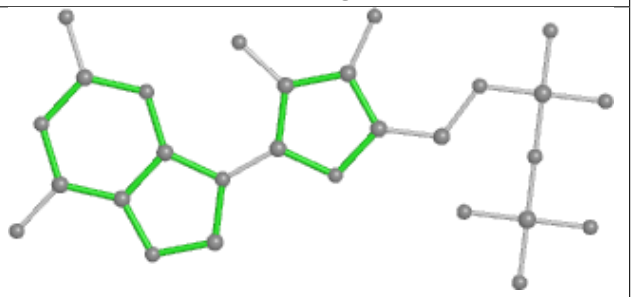
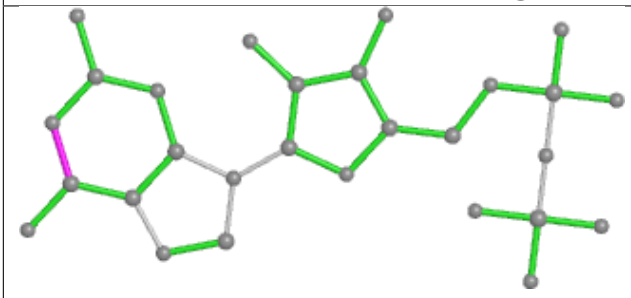
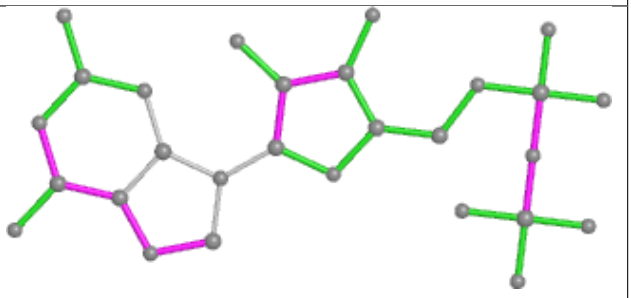
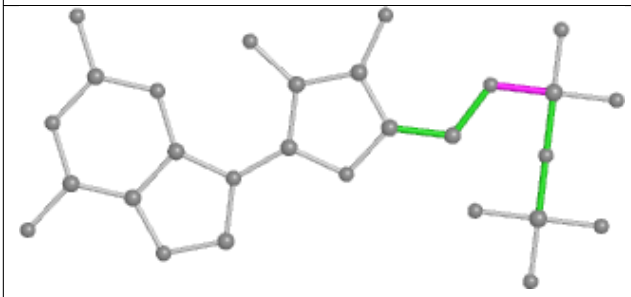
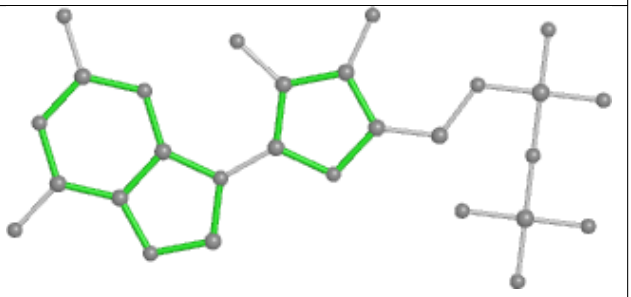


Rings

Ligand GDP 3Y 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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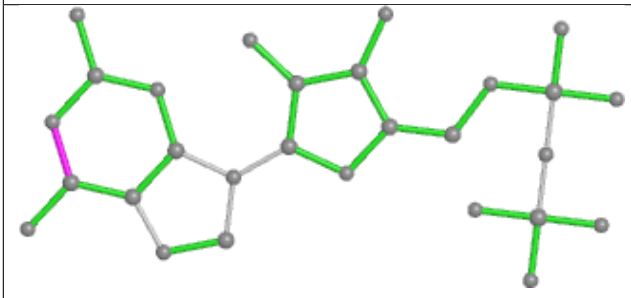
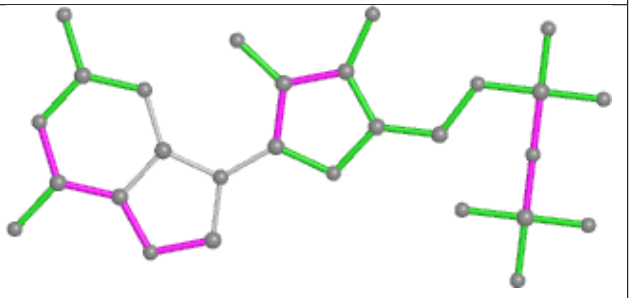
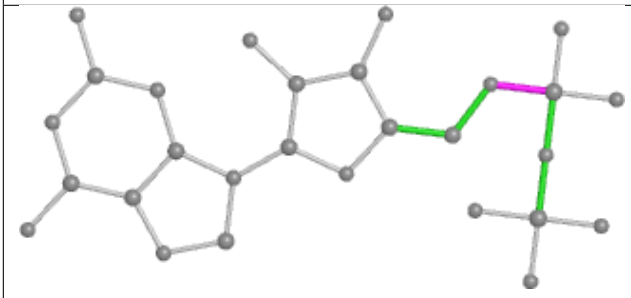
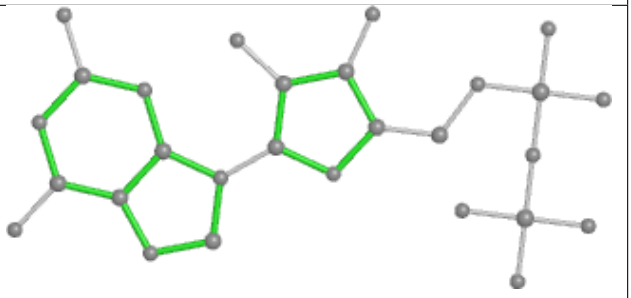
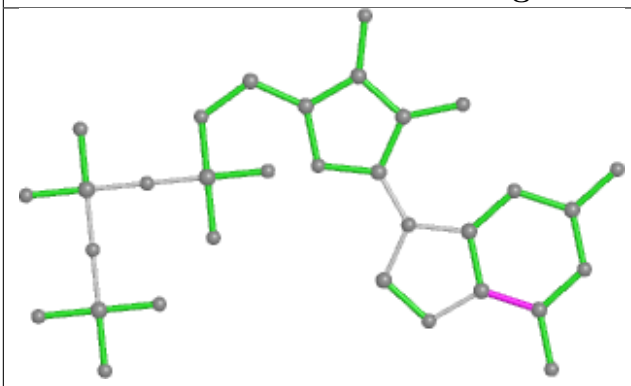
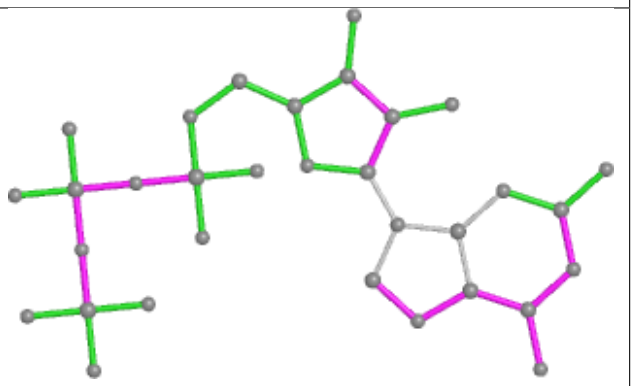
 Bond lengths	 Bond angles
 Torsions	 Rings

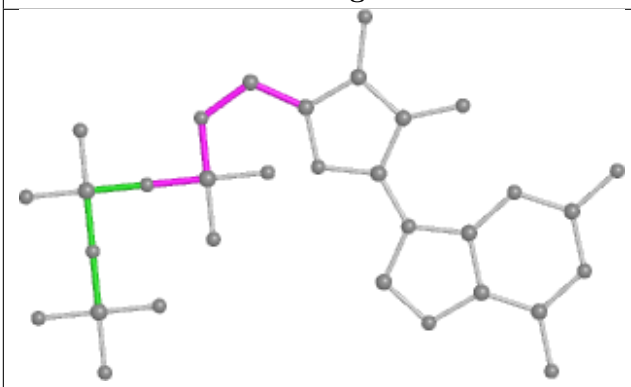
Ligand GTP 4N 501



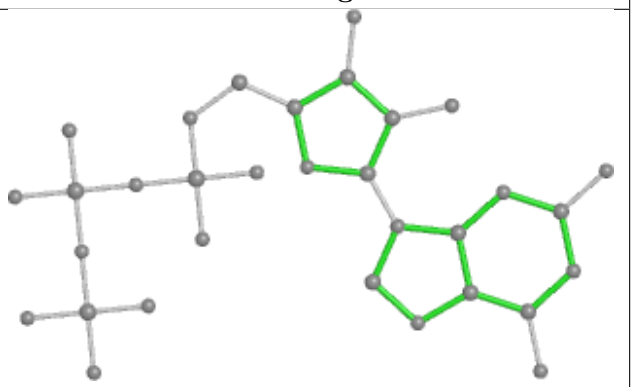
Bond lengths



Bond angles

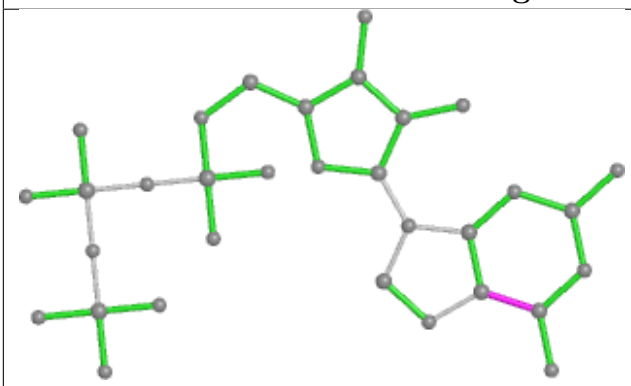


Torsions



Rings

Ligand GTP 2K 501



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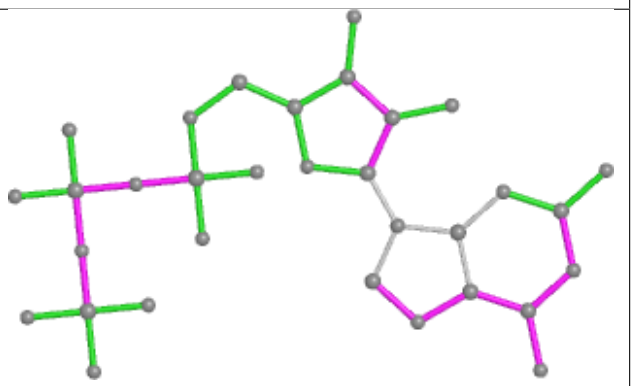
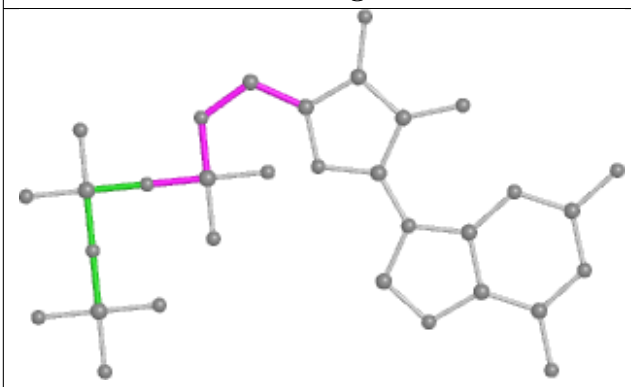


Bond angles



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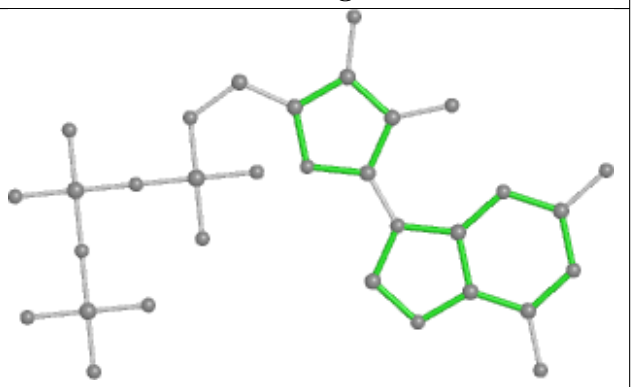

Rings

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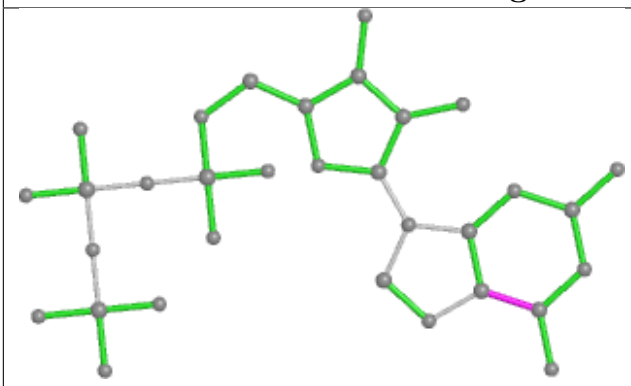

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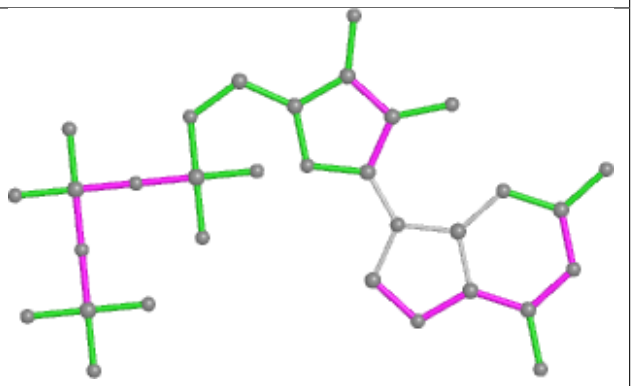

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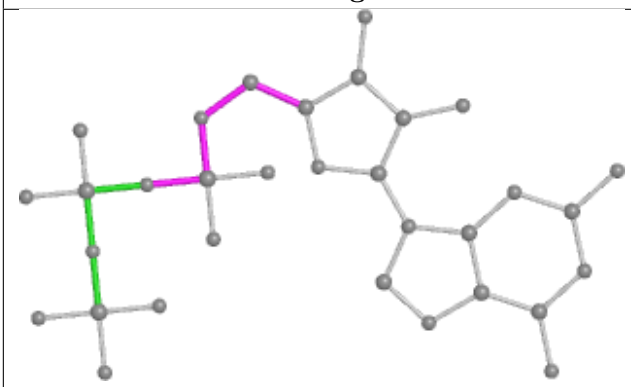

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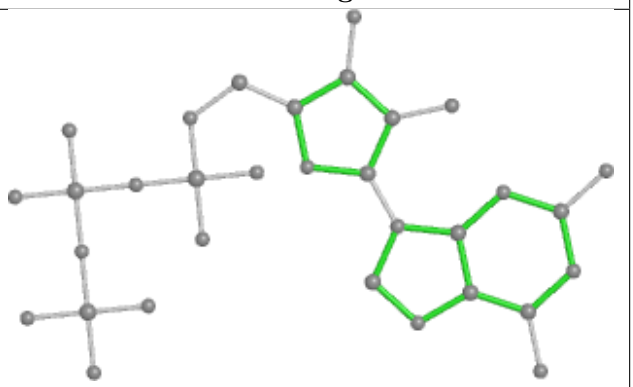

Rings

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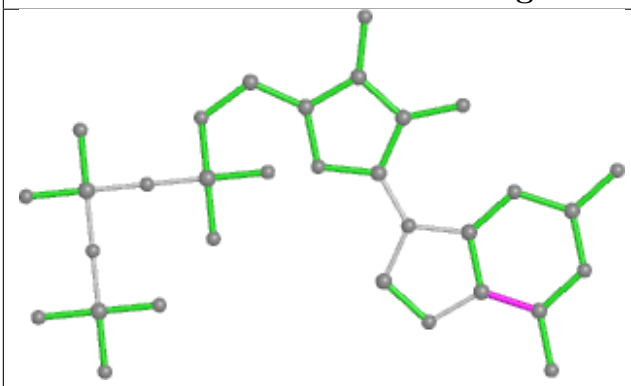

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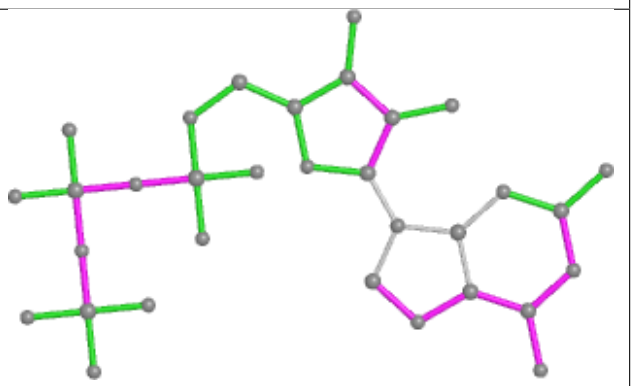

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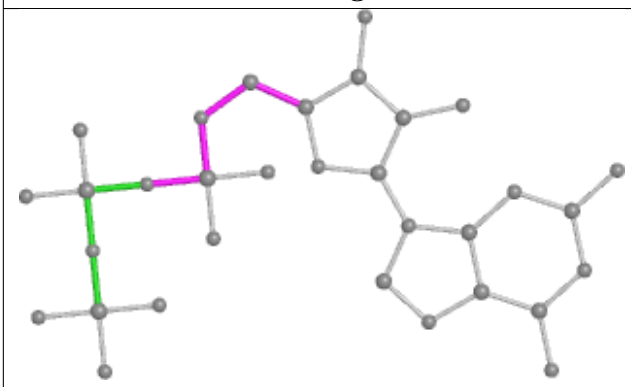

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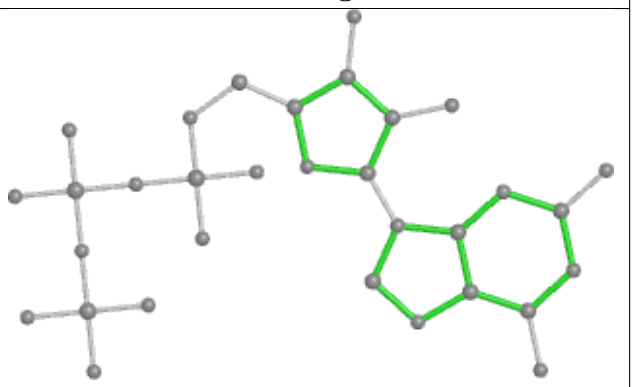
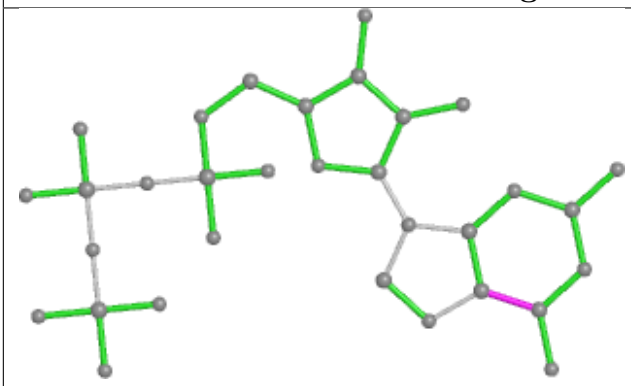


Rings

Ligand GTP 1I 501



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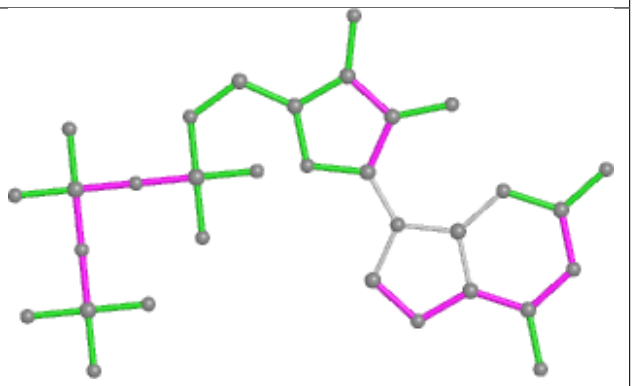

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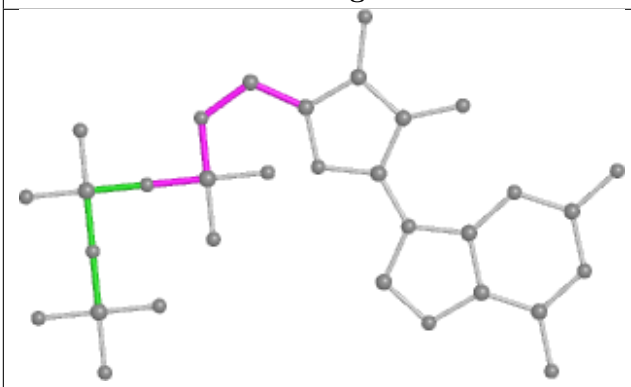

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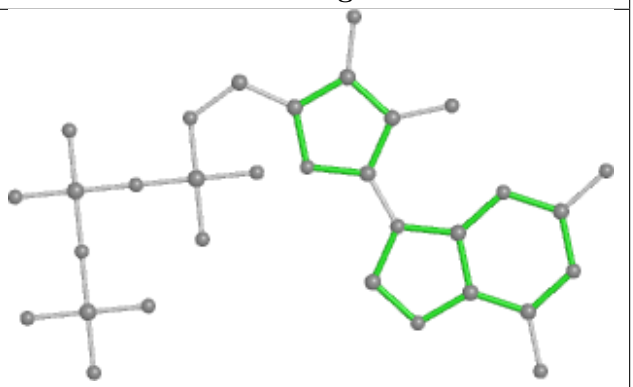
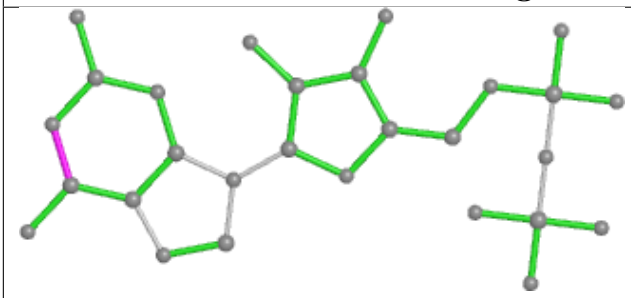


Rings

Ligand GDP 4S 501



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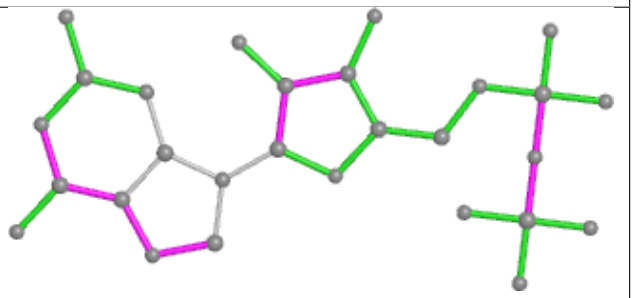

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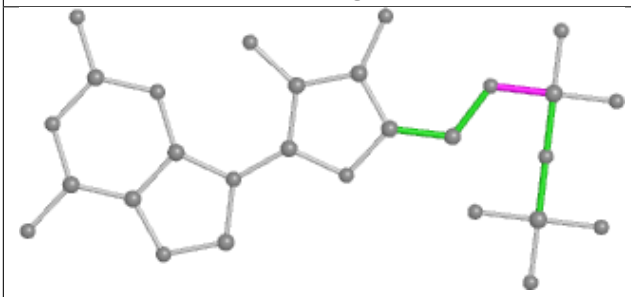

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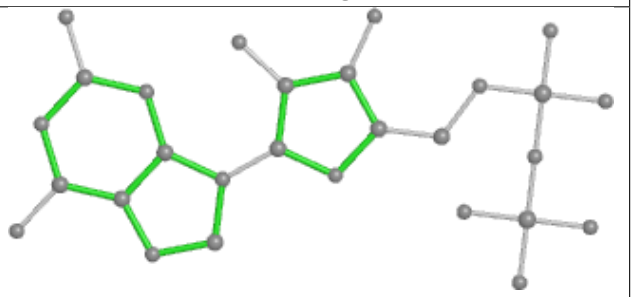

Rings

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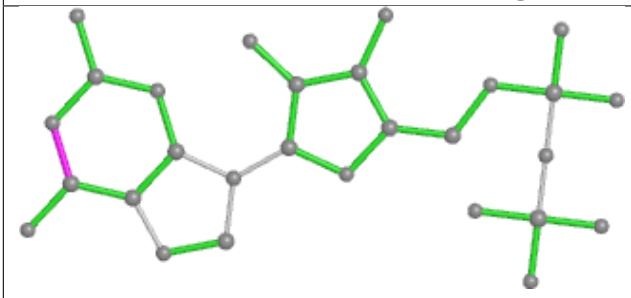
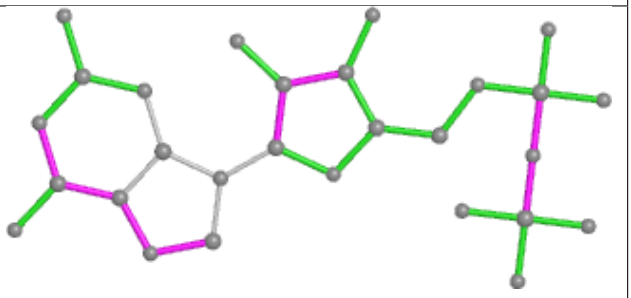
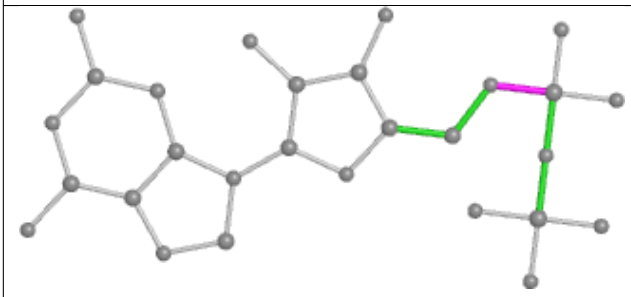
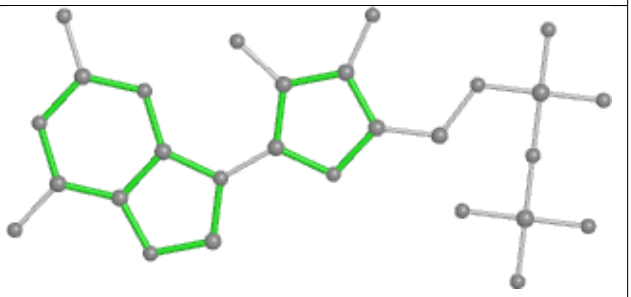
 Bond lengths	 Bond angles
 Torsions	 Rings

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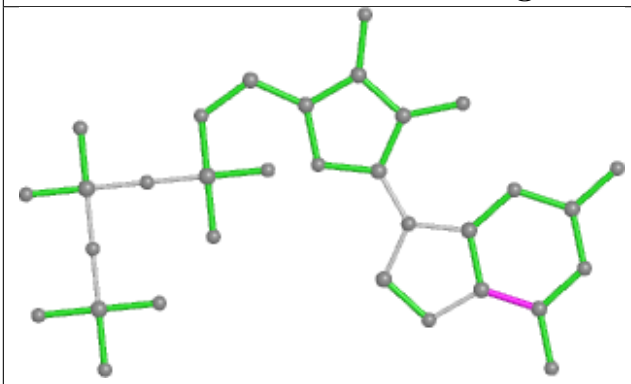
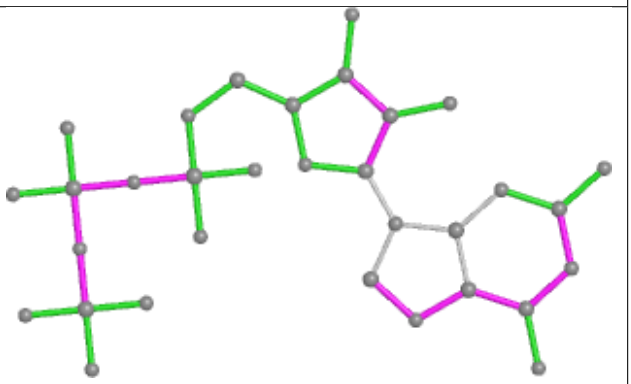
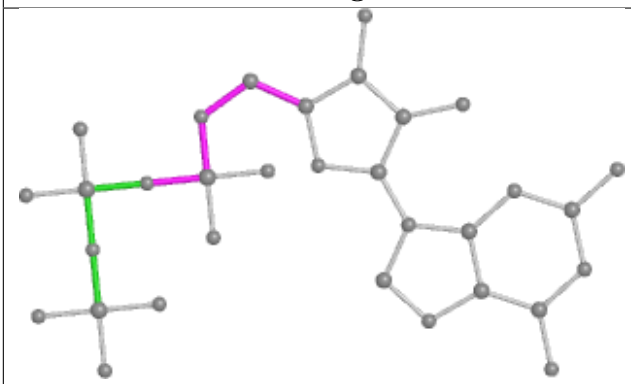
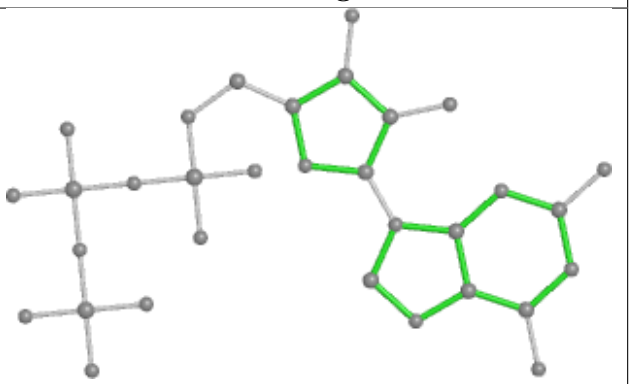
 Bond lengths	 Bond angles
 Torsions	 Rings

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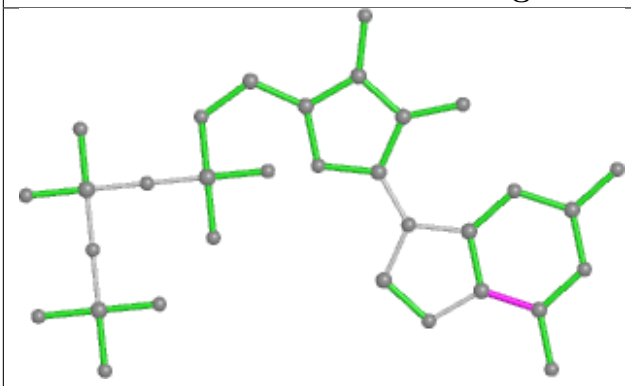

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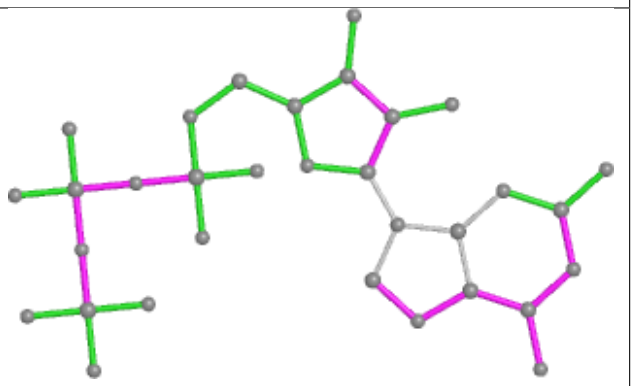

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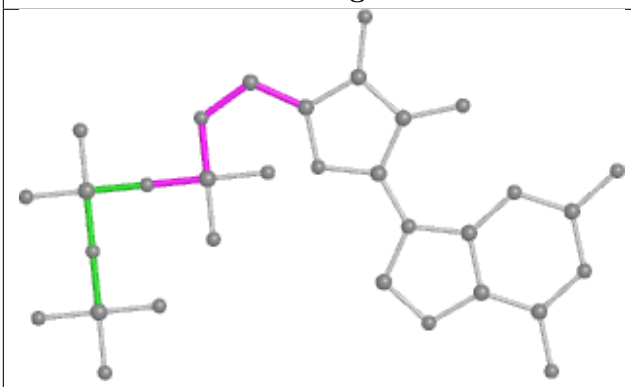

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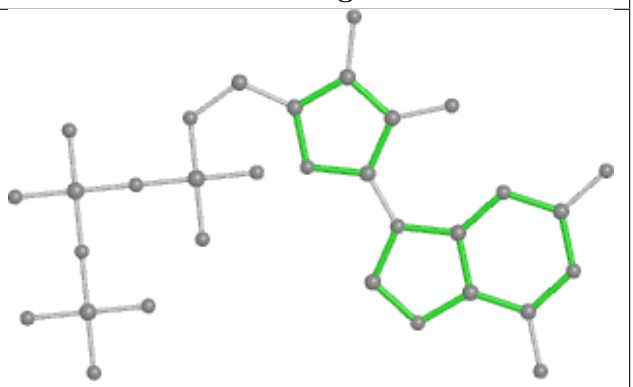
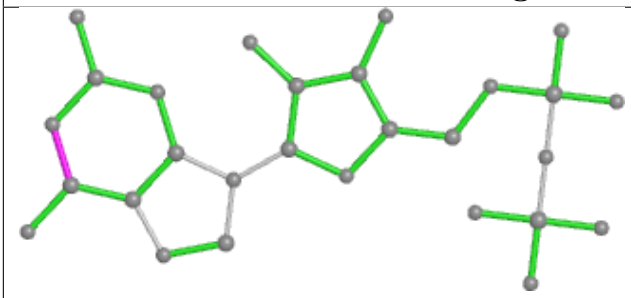


Rings

Ligand GDP 4O 501



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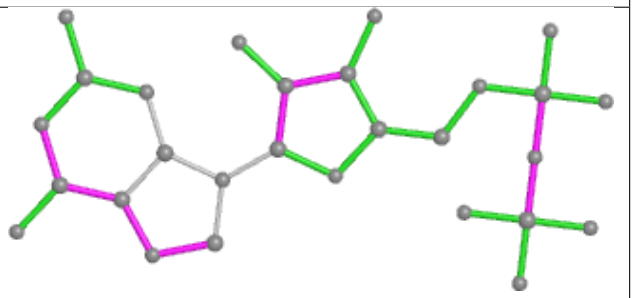

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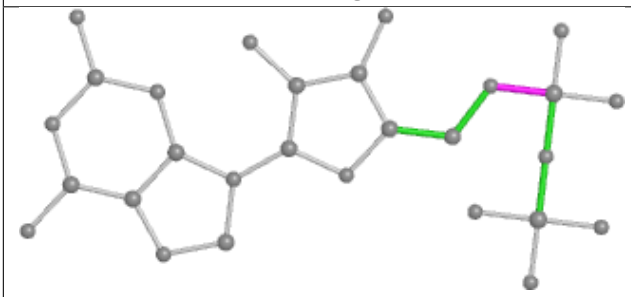

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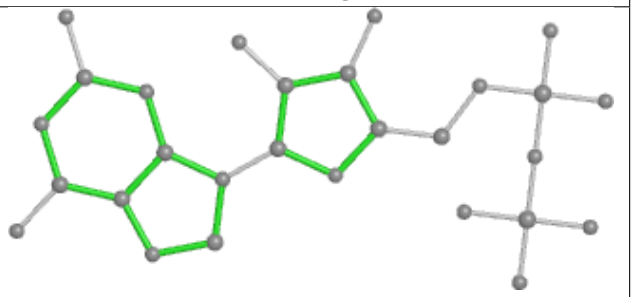
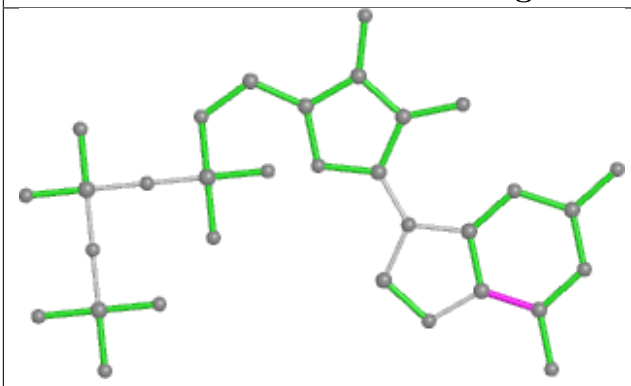


Rings

Ligand GTP 1E 501



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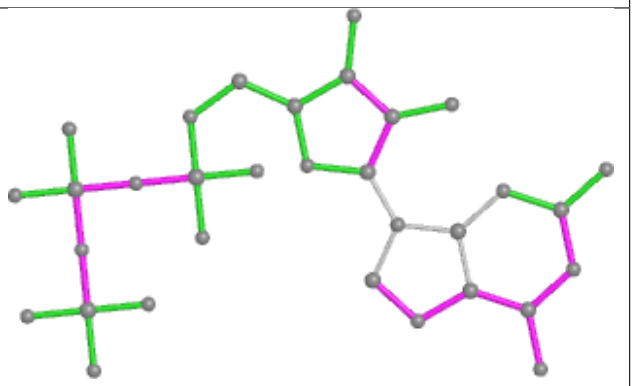

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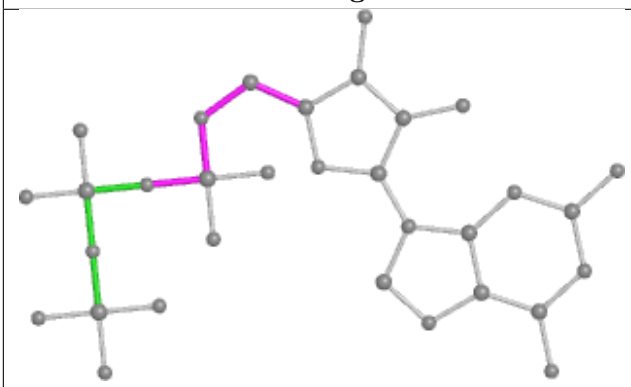

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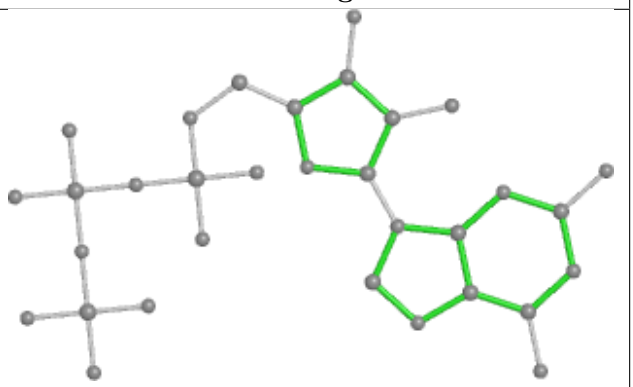

Rings

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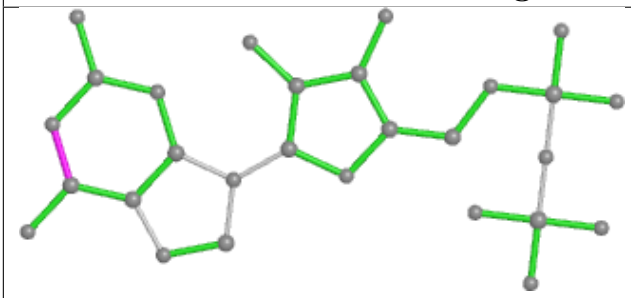

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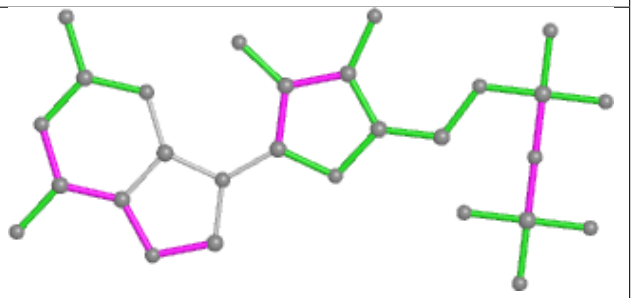

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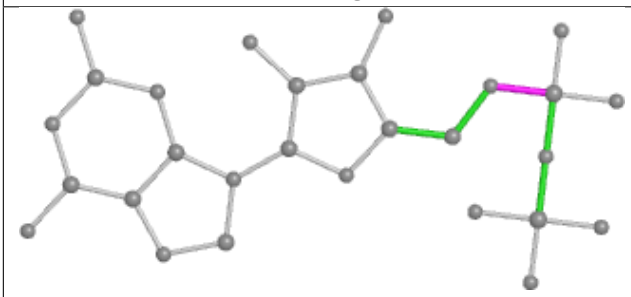

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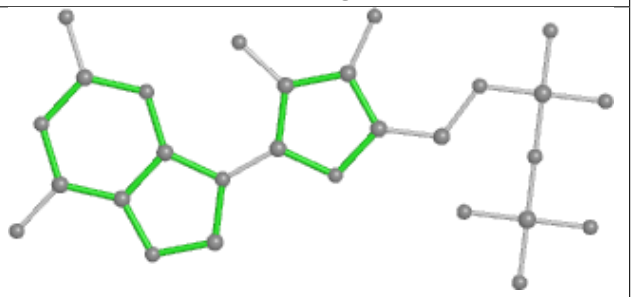

Rings

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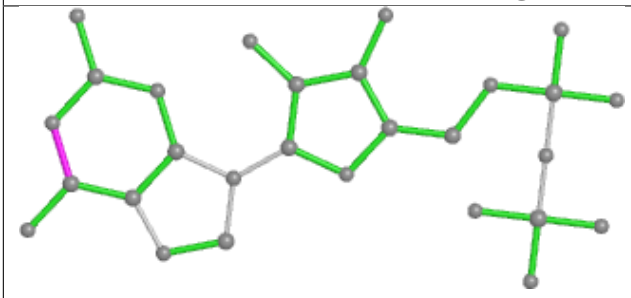

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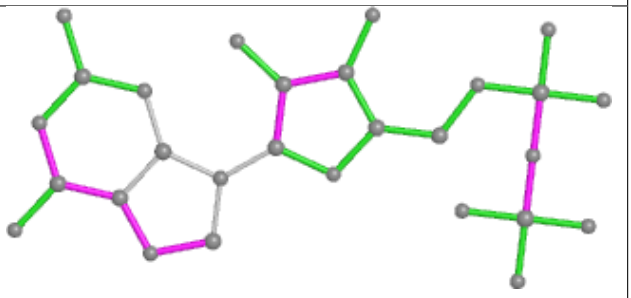

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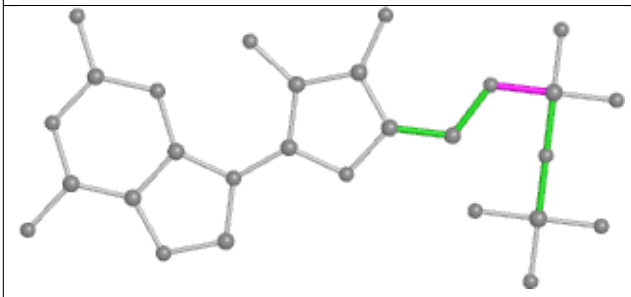

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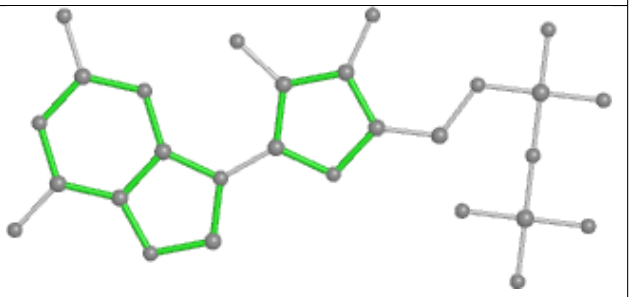
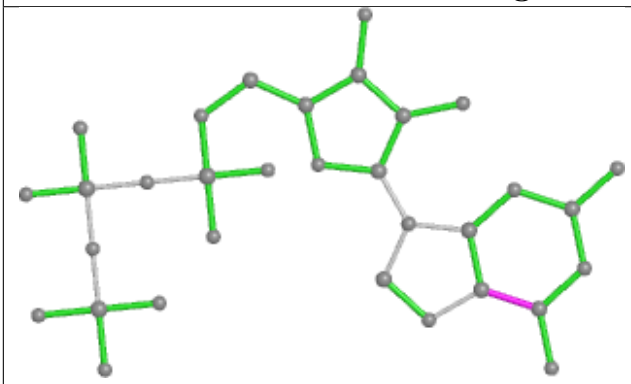
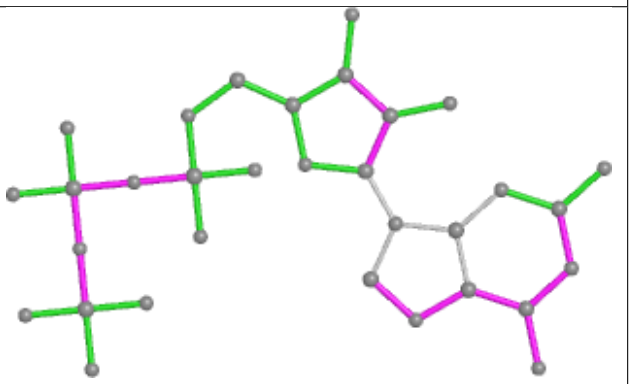


Rings

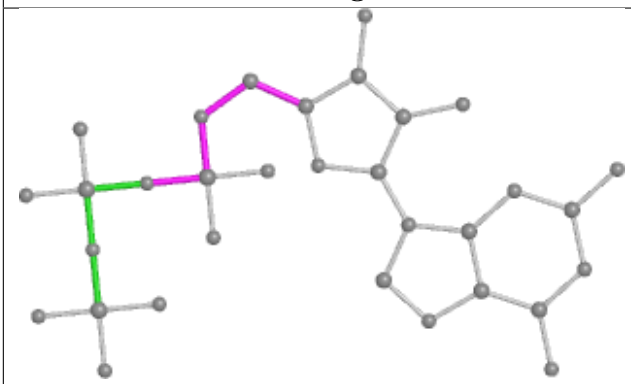
Ligand GTP 1D 501



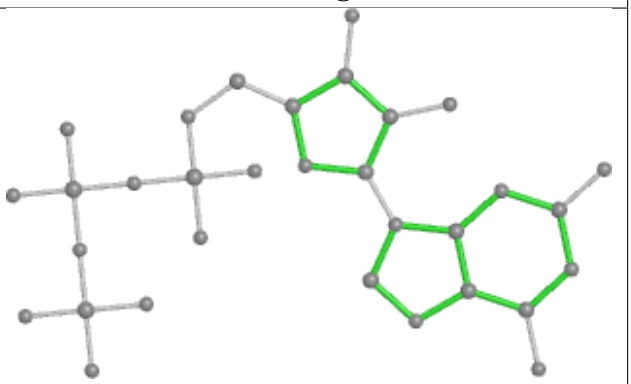
Bond lengths



Bond angles

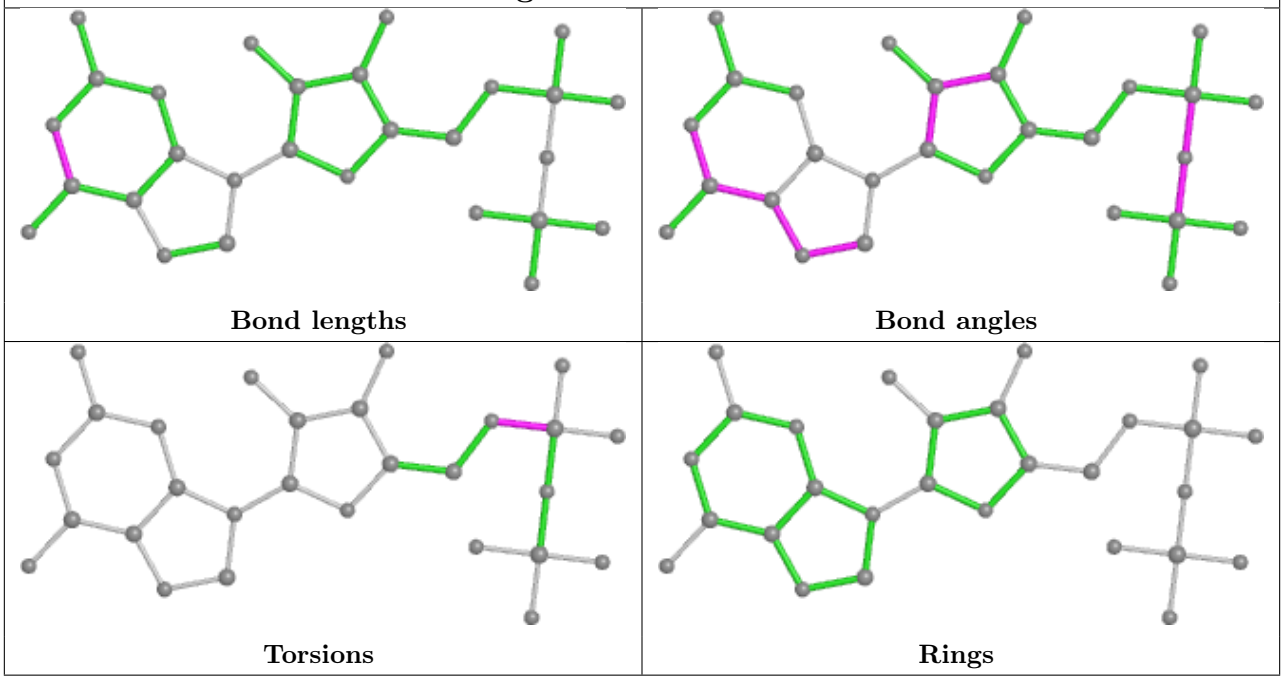


Torsions

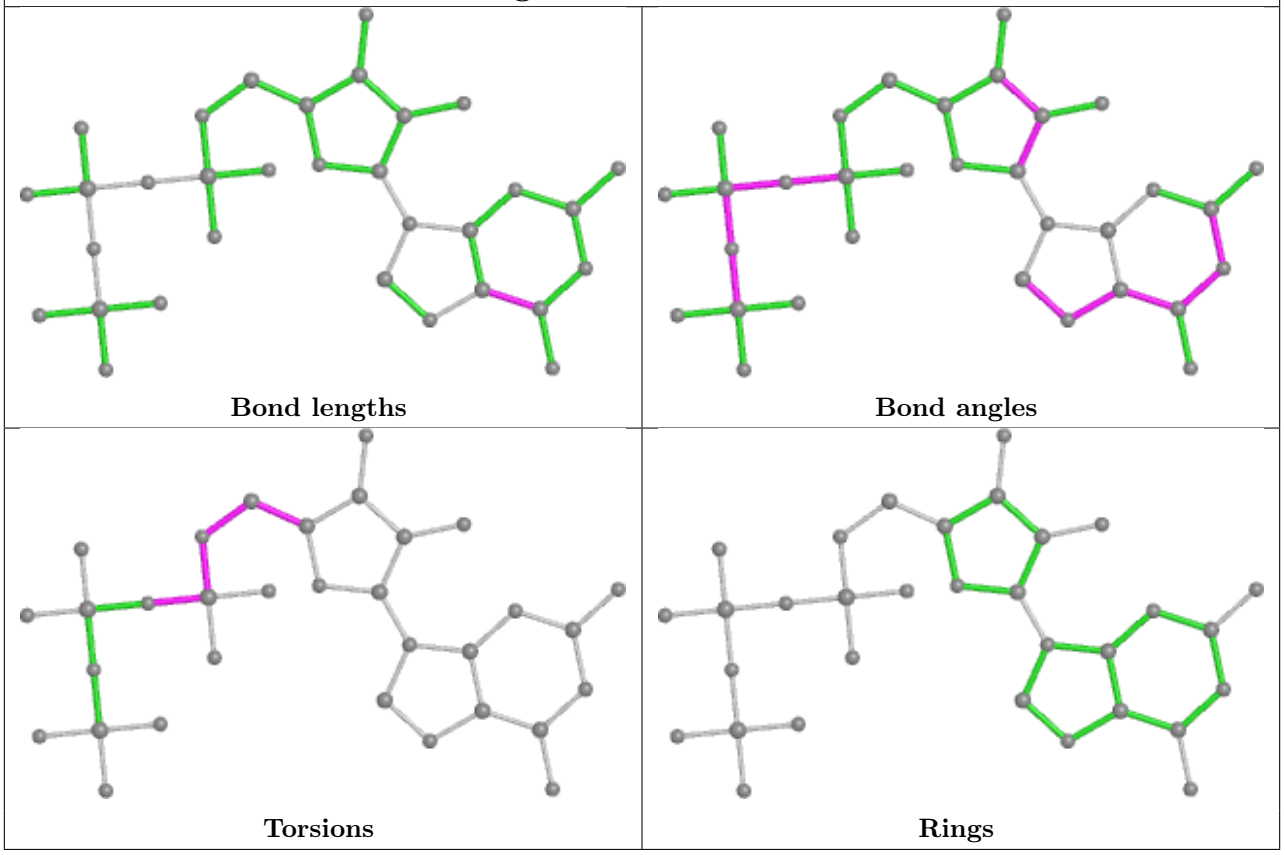


Rings

Ligand GDP 3S 501



Ligand GTP 2N 501



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

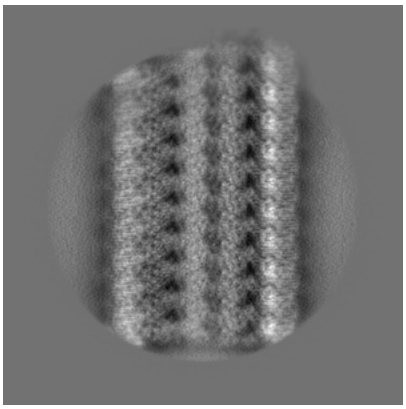
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-0614. These allow visual inspection of the internal detail of the map and identification of artifacts.

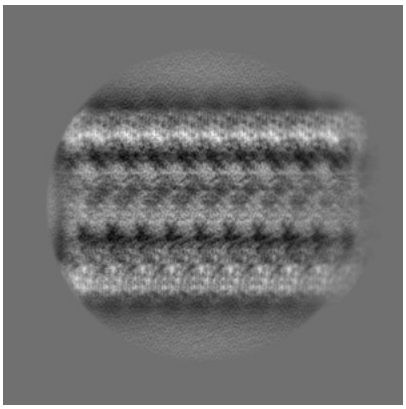
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

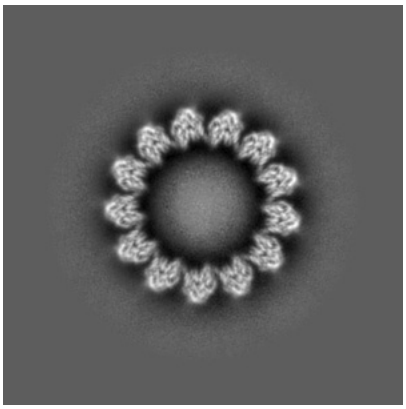
6.1.1 Primary map



X

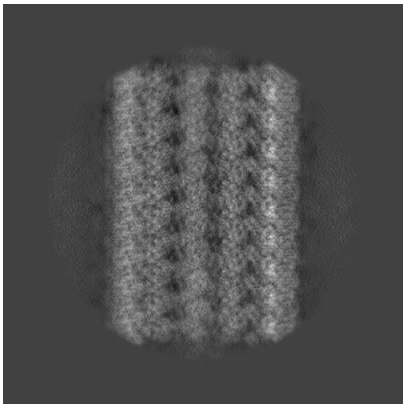


Y

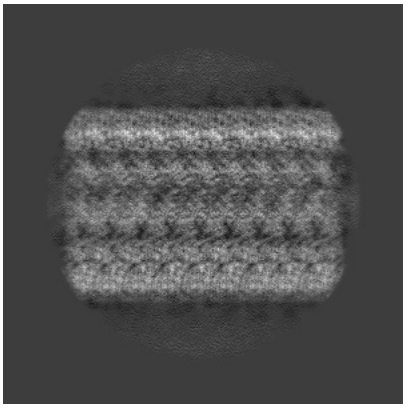


Z

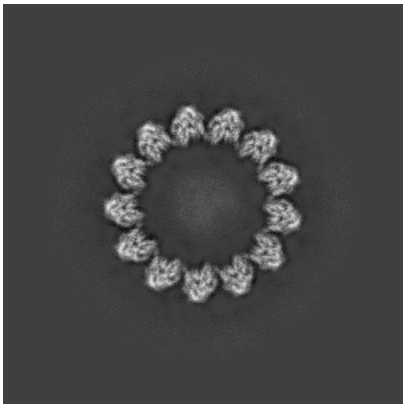
6.1.2 Raw map



X



Y

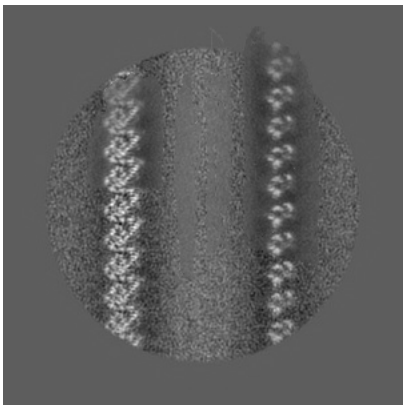


Z

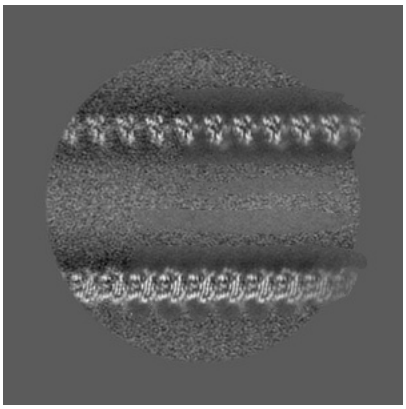
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

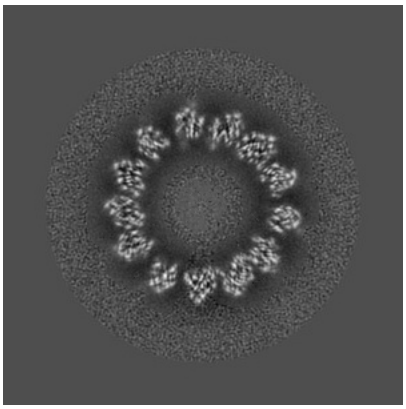
6.2.1 Primary map



X Index: 256

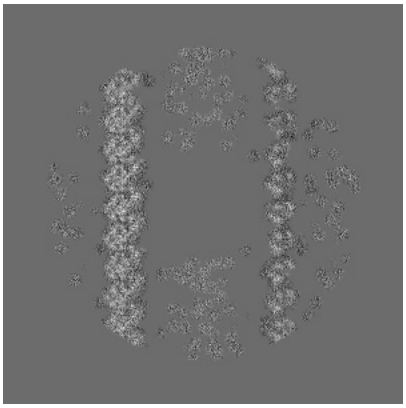


Y Index: 256

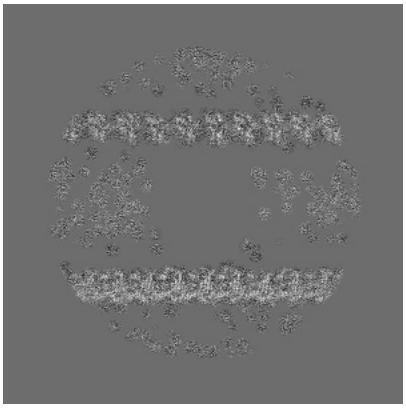


Z Index: 256

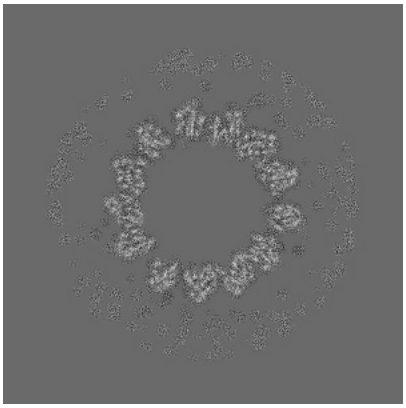
6.2.2 Raw map



X Index: 256



Y Index: 256

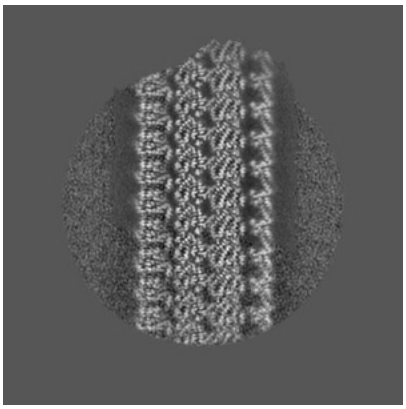


Z Index: 256

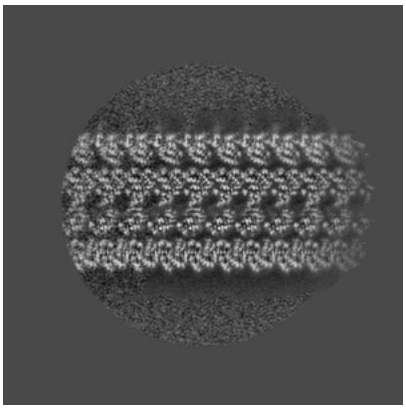
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

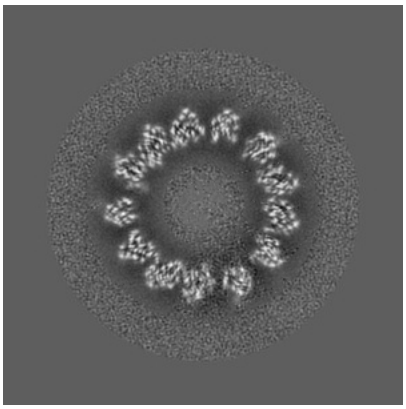
6.3.1 Primary map



X Index: 346

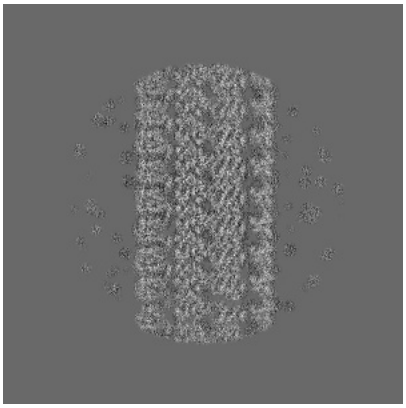


Y Index: 343

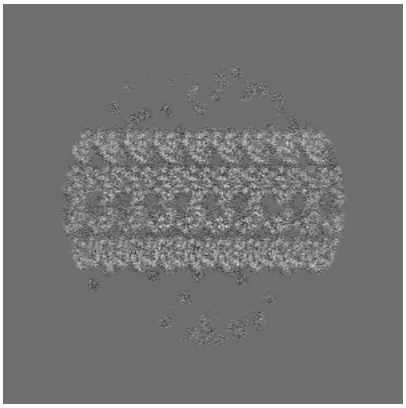


Z Index: 235

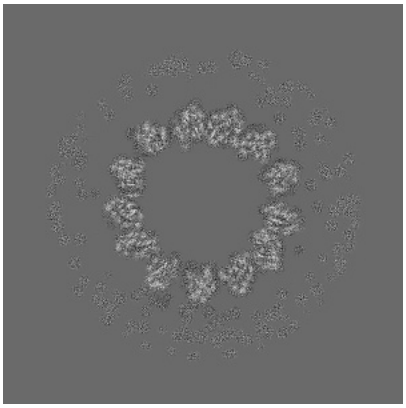
6.3.2 Raw map



X Index: 346



Y Index: 343

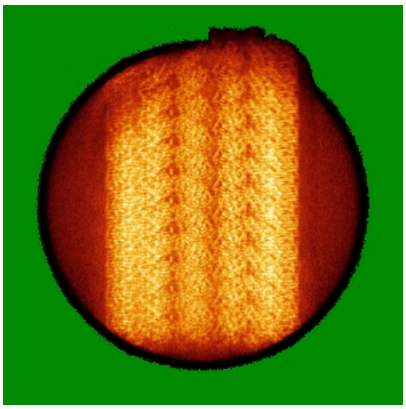


Z Index: 249

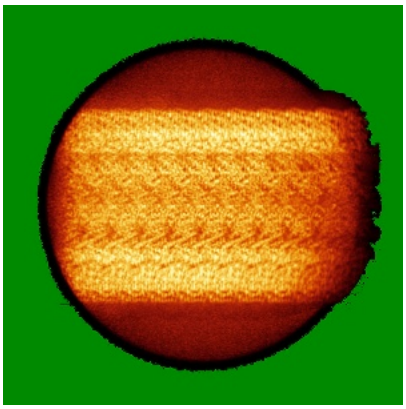
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

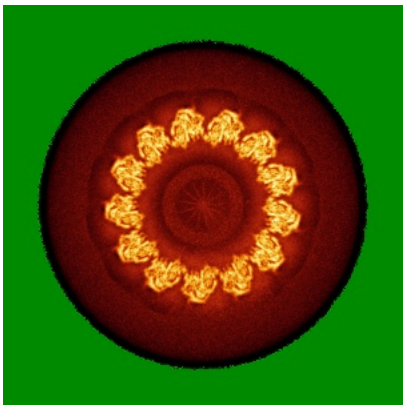
6.4.1 Primary map



X

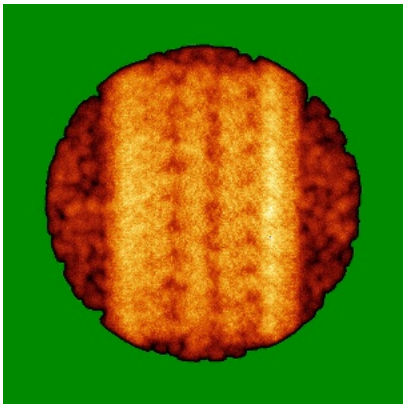


Y

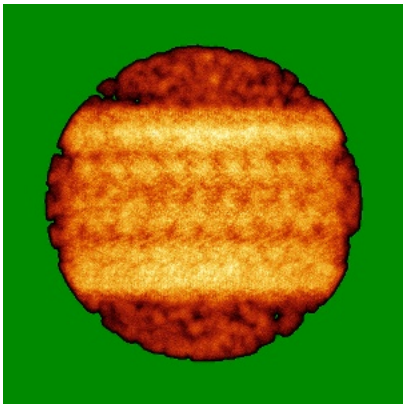


Z

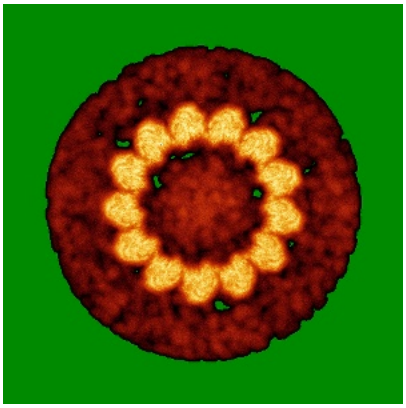
6.4.2 Raw map



X



Y

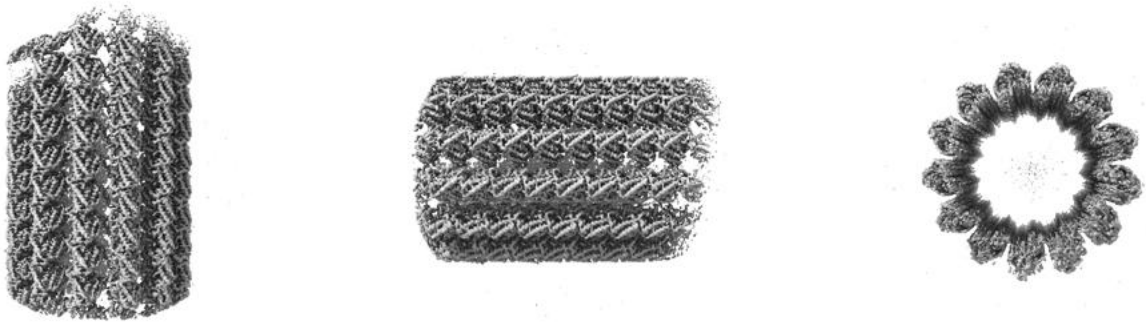


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

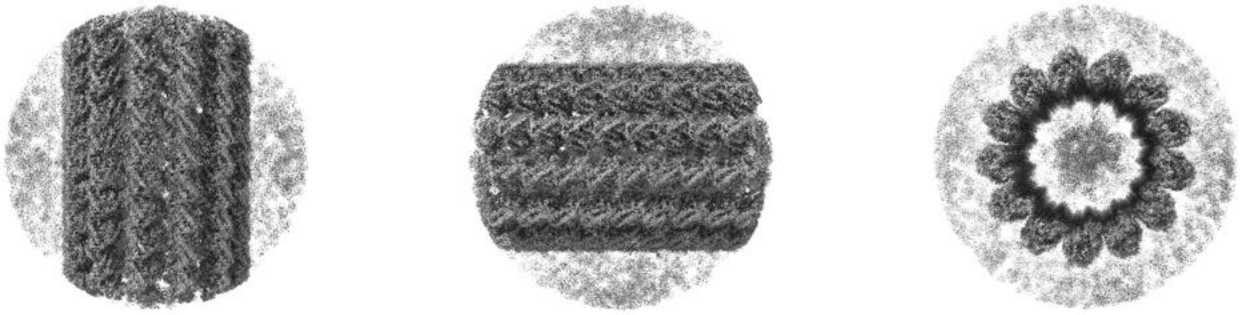
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 4.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

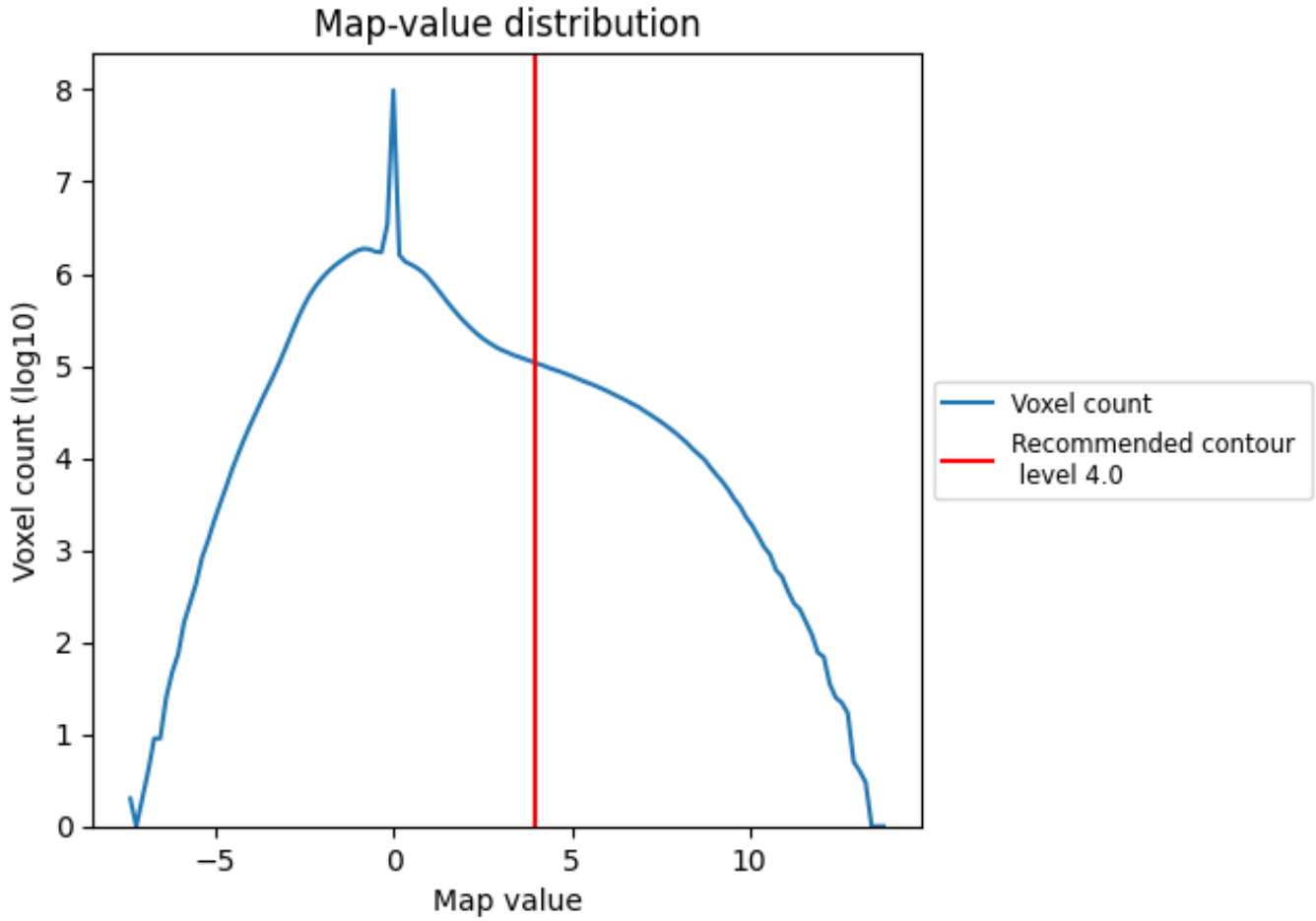
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

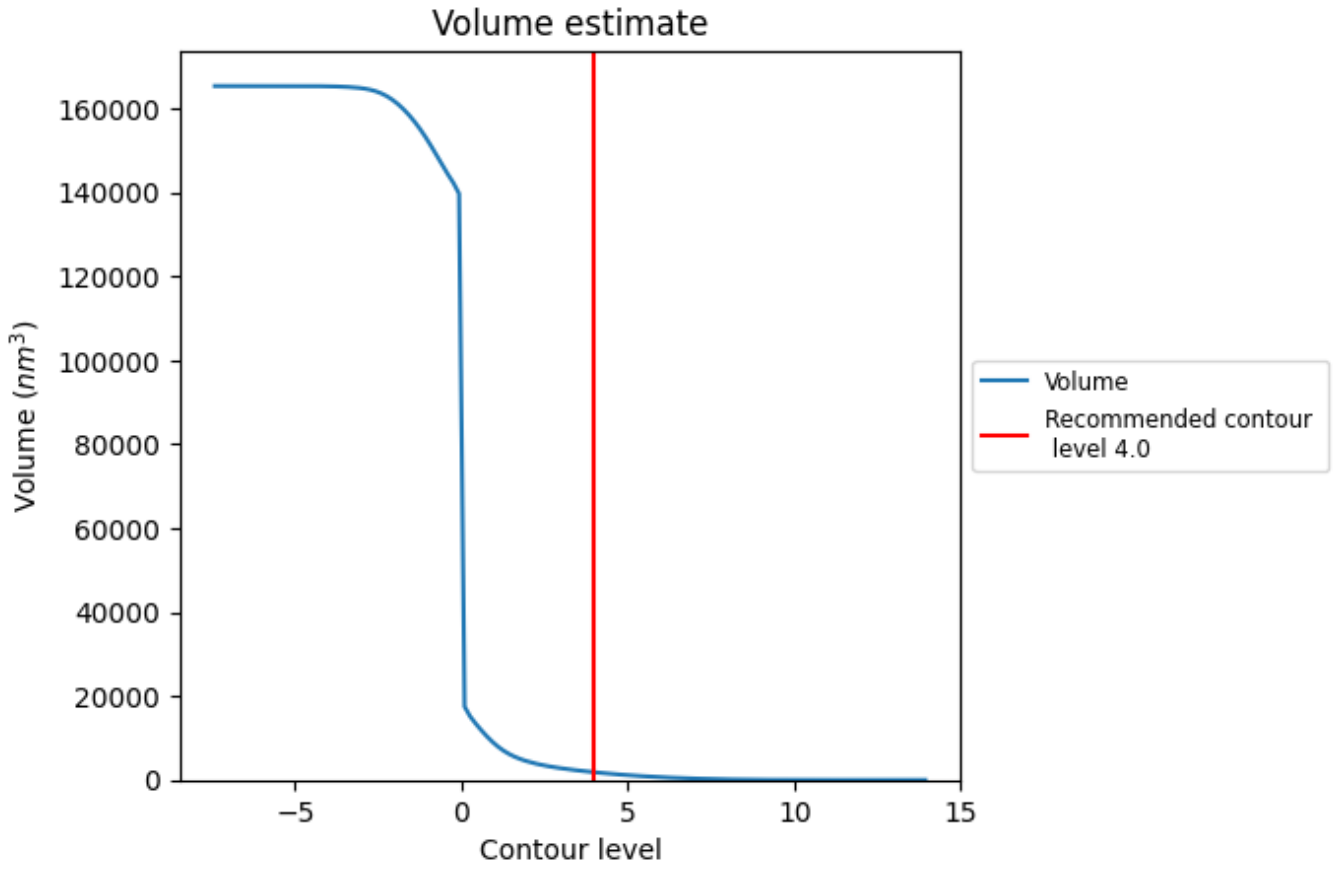
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

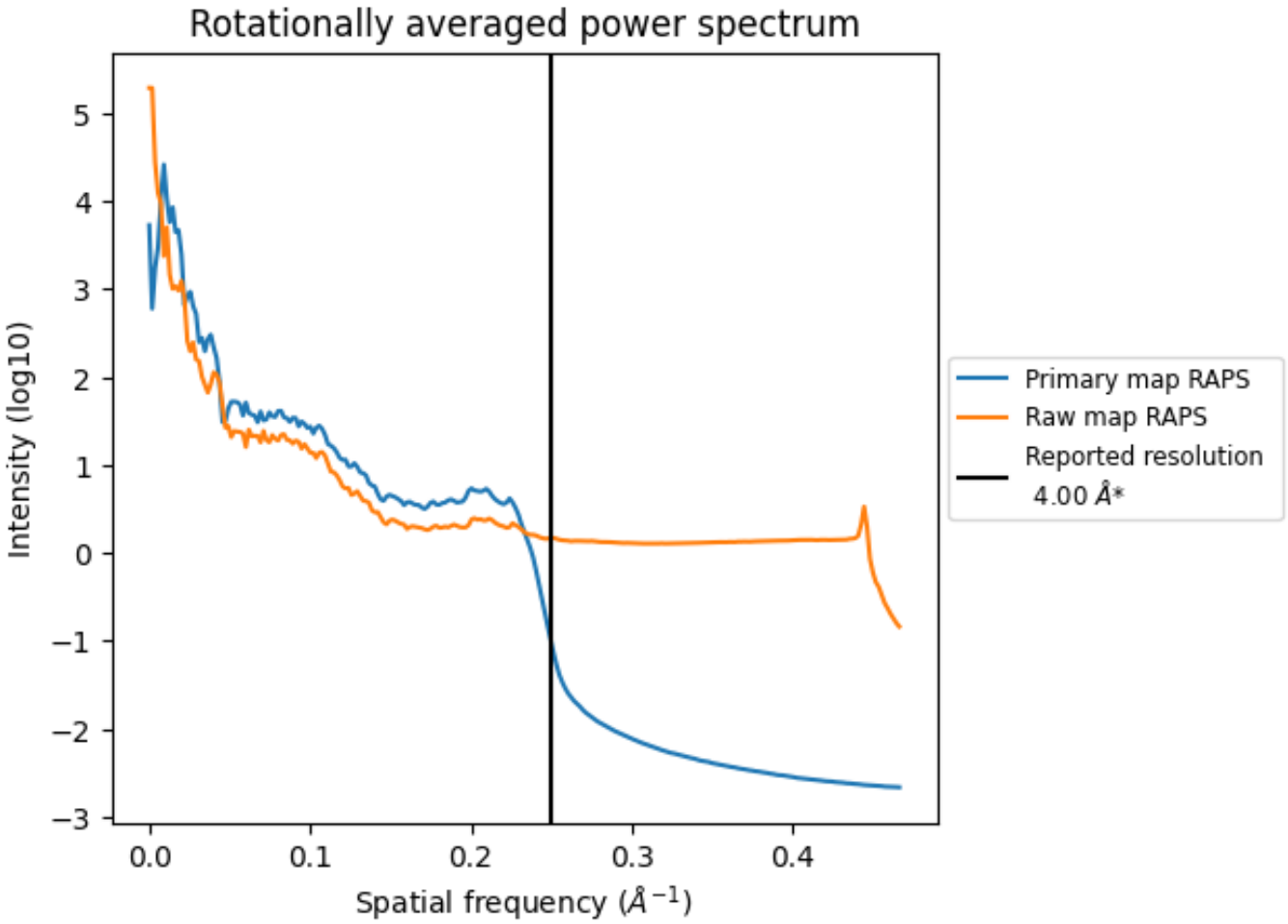
7.2 Volume estimate



The volume at the recommended contour level is 1830 nm^3; this corresponds to an approximate mass of 1653 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)

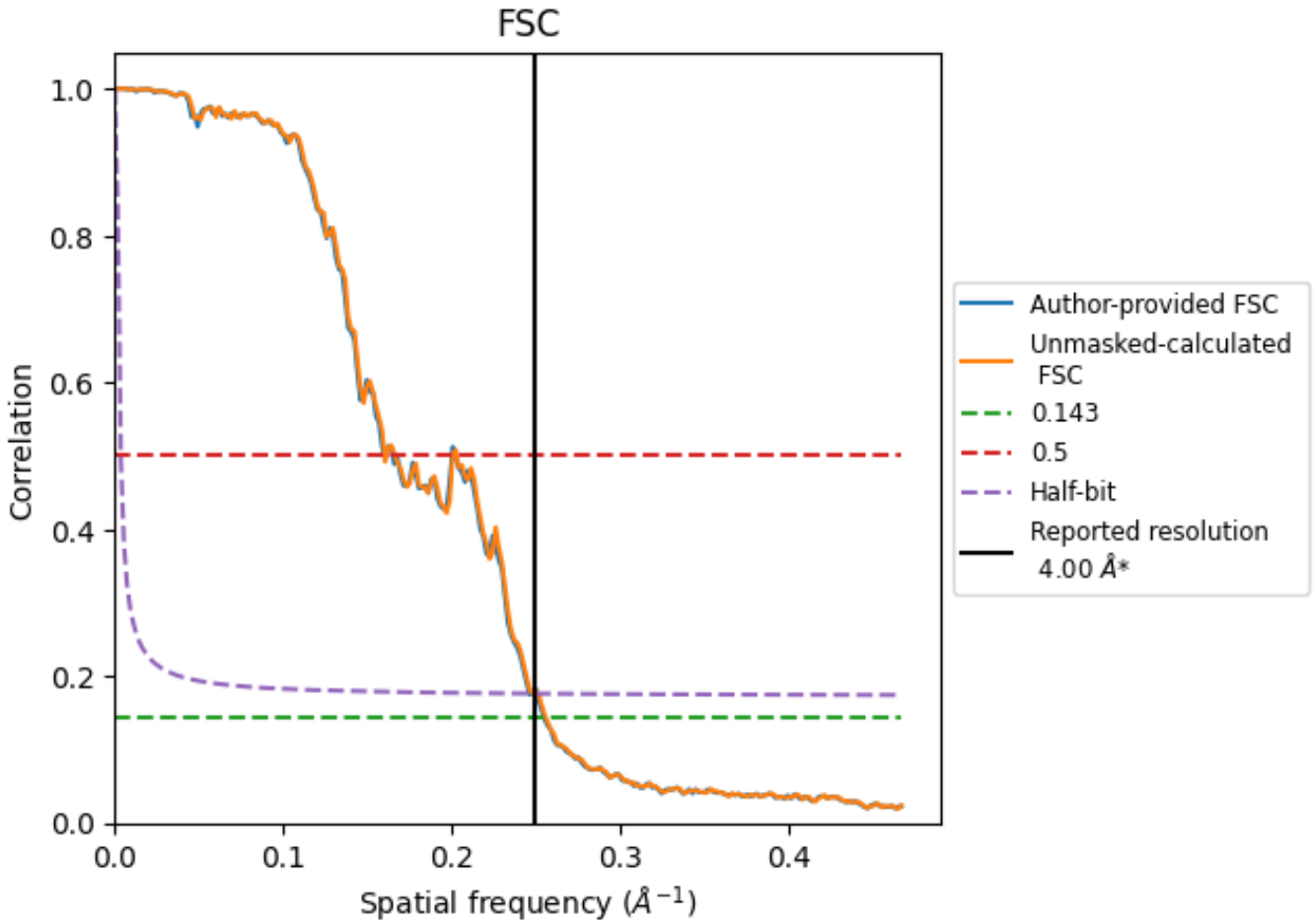


*Reported resolution corresponds to spatial frequency of 0.250 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.250 Å^{-1}

8.2 Resolution estimates (i)

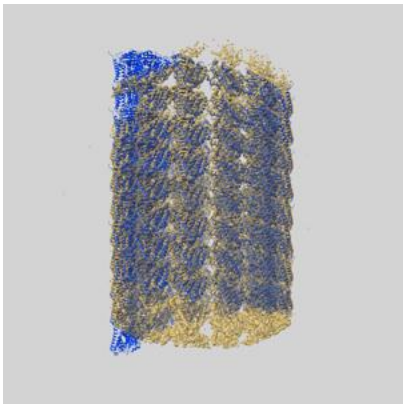
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.00	-	-
Author-provided FSC curve	3.92	6.24	4.06
Unmasked-calculated*	3.90	6.24	4.03

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

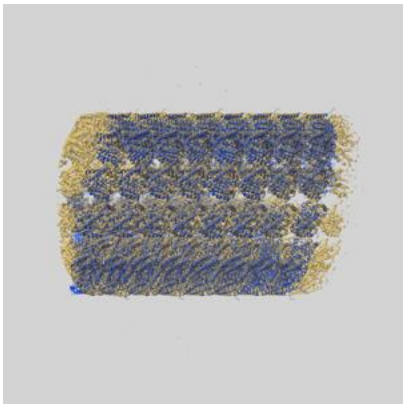
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-0614 and PDB model 6O2S. Per-residue inclusion information can be found in section 3 on page 21.

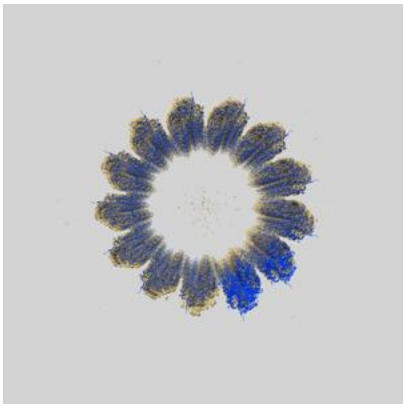
9.1 Map-model overlay



X



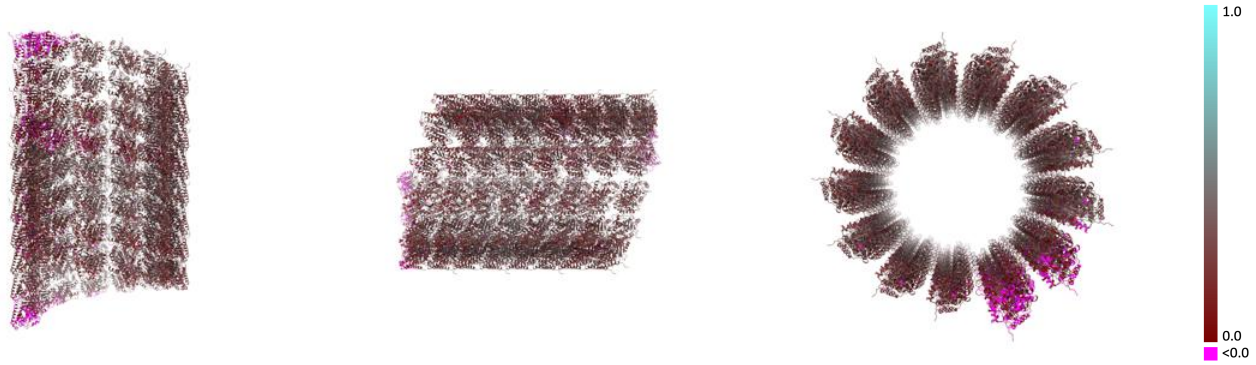
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 4.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

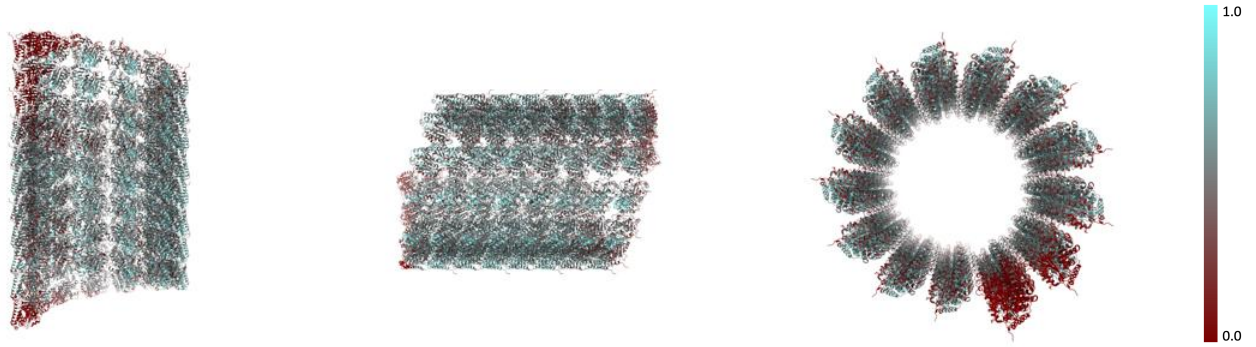
9.2 Q-score mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

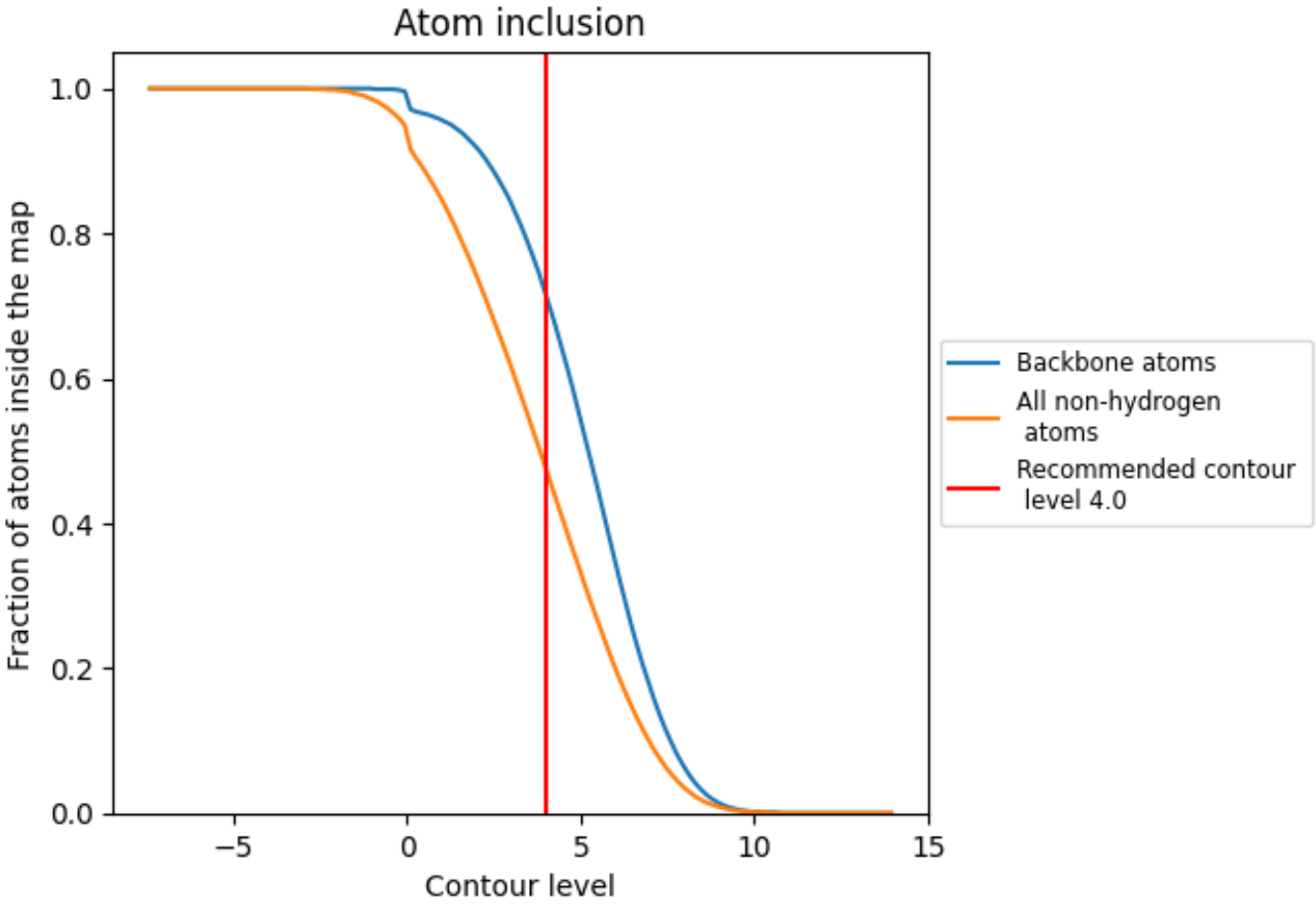
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (4.0).

9.4 Atom inclusion (i)



At the recommended contour level, 71% of all backbone atoms, 47% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (4.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.4740	0.2750
1A	0.5560	0.3520
1B	0.5580	0.3460
1C	0.5540	0.3330
1D	0.5470	0.3300
1E	0.5410	0.3140
1F	0.5240	0.2940
1G	0.5270	0.2920
1H	0.5700	0.3370
1I	0.5230	0.2960
1J	0.5070	0.2720
1K	0.4850	0.2380
1L	0.4860	0.2480
1M	0.1460	0.1830
1N	0.5290	0.3160
1O	0.5660	0.3350
1P	0.5670	0.3350
1Q	0.5660	0.3280
1R	0.5400	0.2860
1S	0.5140	0.2590
1T	0.5000	0.2440
1U	0.4900	0.2290
1V	0.4910	0.2200
1W	0.4410	0.1750
1X	0.4070	0.1420
1Y	0.3310	0.1110
1Z	0.5350	0.2920
2A	0.5520	0.3260
2B	0.5720	0.3560
2C	0.5700	0.3550
2D	0.5660	0.3490
2E	0.5690	0.3530
2F	0.5550	0.3340
2G	0.5510	0.3320
2H	0.5130	0.2680

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Chain	Atom inclusion	Q-score
2I	0.5480	0.3290
2J	0.5380	0.3320
2K	0.5560	0.3380
2L	0.5590	0.3250
2M	0.5500	0.3270
2N	0.4790	0.2650
2O	0.5420	0.3050
2P	0.5310	0.2880
2Q	0.5510	0.3150
2R	0.5480	0.3120
2S	0.5420	0.2990
2T	0.5450	0.3130
2U	0.5430	0.3150
2V	0.5430	0.3140
2W	0.5480	0.3190
2X	0.5230	0.2930
2Y	0.4780	0.2380
2Z	0.4770	0.2550
3A	0.4750	0.2720
3B	0.4740	0.2970
3C	0.4900	0.2970
3D	0.5170	0.2920
3E	0.5210	0.2800
3F	0.5100	0.2690
3G	0.5020	0.2690
3H	0.1860	0.1350
3I	0.4910	0.2600
3J	0.5040	0.2610
3K	0.5150	0.2560
3L	0.4890	0.2520
3M	0.4680	0.2310
3N	0.3710	0.2230
3O	0.2760	0.1950
3P	0.3650	0.2270
3Q	0.4480	0.2510
3R	0.4870	0.2690
3S	0.4840	0.2730
3T	0.4860	0.2780
3U	0.5040	0.2900
3V	0.5030	0.2790
3W	0.5000	0.2660
3X	0.4480	0.2460

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Chain	Atom inclusion	Q-score
3Y	0.3970	0.1780
3Z	0.0900	0.0640
4A	0.4020	0.2560
4B	0.4410	0.3080
4C	0.4350	0.2990
4D	0.4300	0.2990
4E	0.4430	0.3160
4F	0.4420	0.3240
4G	0.4400	0.3160
4H	0.4840	0.2570
4I	0.4430	0.3230
4J	0.4330	0.3250
4K	0.4040	0.3160
4L	0.1600	0.1270
4M	0.0430	0.0440
4N	0.3570	0.2180
4O	0.4920	0.2630
4P	0.4860	0.2650
4Q	0.4790	0.2580
4R	0.4850	0.2720
4S	0.4970	0.2950
4T	0.4900	0.2880
4U	0.4890	0.2820
4V	0.5080	0.3210
4W	0.5150	0.3160
4X	0.4180	0.2730
4Y	0.0730	0.1820
4Z	0.4640	0.2260