



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 05:26 AM UTC

PDB ID : 7N6G / pdb_00007n6g
EMDB ID : EMD-24207
Title : C1 of central pair
Authors : Han, L.; Zhang, K.
Deposited on : 2021-06-08
Resolution : 3.60 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

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.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

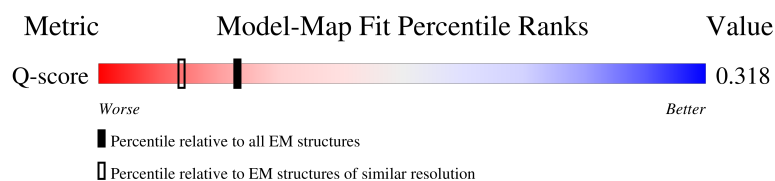
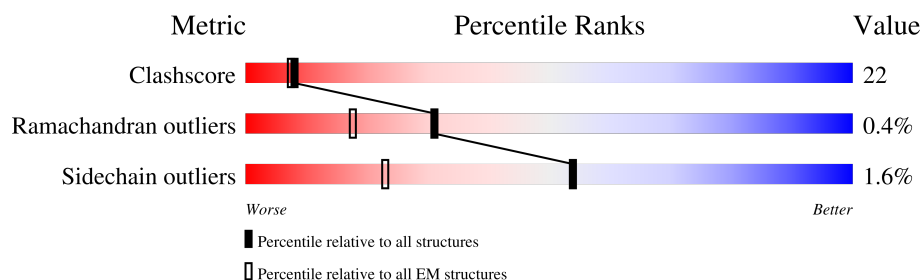
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	12797 (3.10 - 4.10)

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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	0A	512	11% 56% 41% .
1	0B	512	44% 51% 46% .
1	0C	512	15% 62% 35% .
1	0D	512	22% 60% 38% .

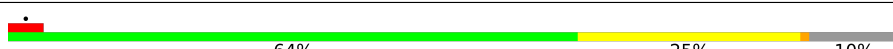
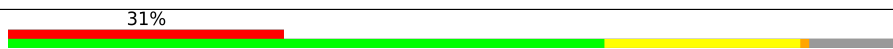
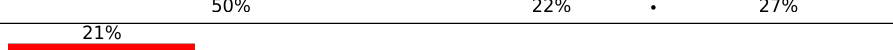
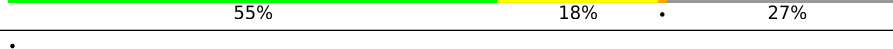
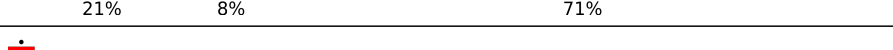
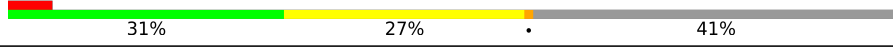
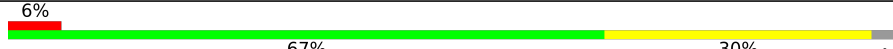
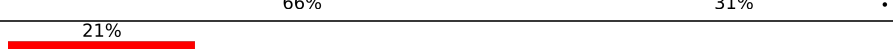
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Mol	Chain	Length	Quality of chain
1	0E	512	
1	0F	512	
1	0G	512	
1	0H	512	
1	0I	512	
1	0J	512	
1	0K	512	
1	0L	512	
1	0M	512	
1	0N	512	
1	0O	512	
1	0P	512	
1	0Q	512	
1	0R	512	
1	0S	512	
1	0T	512	
1	0U	512	
1	0V	512	
1	0W	512	
1	0X	512	
1	0Y	512	
1	0Z	512	
1	1A	512	
1	1B	512	
1	1C	512	

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Mol	Chain	Length	Quality of chain
2	1D	571	
2	1E	571	
2	1F	571	
2	1G	571	
3	1H	1102	
3	1I	1102	
3	6D	1102	
4	1J	3965	
4	1K	3965	
5	1L	2939	
5	1M	2939	
6	1N	2784	
7	1O	3225	
8	1P	1023	
9	1Q	945	
10	1R	446	
10	1S	446	
11	1T	1638	
12	1a	443	
12	1c	443	
12	1e	443	
12	1g	443	
12	2a	443	
12	2c	443	
12	2e	443	

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Mol	Chain	Length	Quality of chain
12	2g	443	
12	3a	443	
12	3c	443	
12	3e	443	
12	3g	443	
12	4a	443	
12	4c	443	
12	4e	443	
12	4g	443	
12	5a	443	
12	5c	443	
12	5e	443	
12	5g	443	
12	6a	443	
12	6c	443	
12	6e	443	
12	6g	443	
12	7a	443	
12	7c	443	
12	7e	443	
12	7g	443	
12	8a	443	
12	8c	443	
12	8e	443	
12	8g	443	

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Mol	Chain	Length	Quality of chain
12	9a	443	
12	9c	443	
12	9e	443	
12	9g	443	
12	Aa	443	
12	Ac	443	
12	Ae	443	
12	Ag	443	
12	Ba	443	
12	Bc	443	
12	Be	443	
12	Bg	443	
12	Ca	443	
12	Cc	443	
12	Ce	443	
12	Cg	443	
12	Da	443	
12	Dc	443	
12	De	443	
12	Dg	443	
13	1b	451	
13	1d	451	
13	1f	451	
13	1h	451	
13	2b	451	

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Mol	Chain	Length	Quality of chain
13	2d	451	
13	2f	451	
13	2h	451	
13	3b	451	
13	3d	451	
13	3f	451	
13	3h	451	
13	4b	451	
13	4d	451	
13	4f	451	
13	4h	451	
13	5b	451	
13	5d	451	
13	5f	451	
13	5h	451	
13	6b	451	
13	6d	451	
13	6f	451	
13	6h	451	
13	7b	451	
13	7d	451	
13	7f	451	
13	7h	451	
13	8b	451	
13	8d	451	

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Mol	Chain	Length	Quality of chain
13	8f	451	
13	8h	451	
13	9b	451	
13	9d	451	
13	9f	451	
13	9h	451	
13	Ab	451	
13	Ad	451	
13	Af	451	
13	Ah	451	
13	Bb	451	
13	Bd	451	
13	Bf	451	
13	Bh	451	
13	Cb	451	
13	Cd	451	
13	Cf	451	
13	Ch	451	
13	Db	451	
13	Dd	451	
13	Df	451	
13	Dh	451	
14	2F	168	
14	2G	168	
15	2H	196	

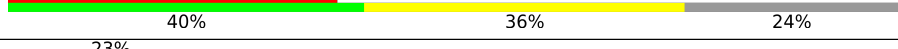
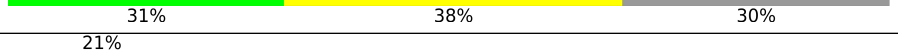
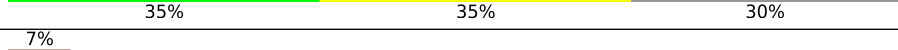
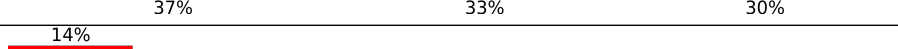
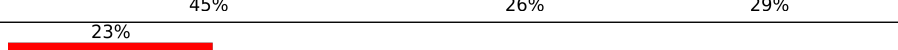
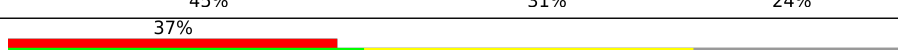
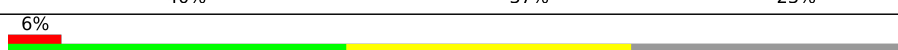
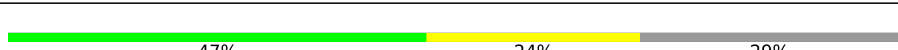
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Mol	Chain	Length	Quality of chain
16	2I	108	
17	2J	100	
17	2K	100	
18	2L	54	
19	2M	18	
20	2N	52	
21	2O	47	
22	2P	106	
23	2Q	110	
23	2R	110	
24	2S	447	
24	2T	447	
24	2U	447	
24	2V	447	
25	2W	167	
25	2X	167	
26	2Y	65	
26	2Z	65	
27	3A	36	
27	3B	36	
28	3C	739	
29	3E	1471	
30	3F	795	
30	3G	795	
31	3H	1940	

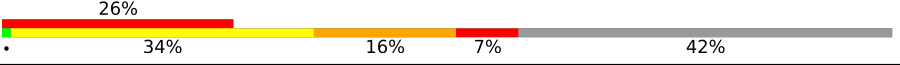
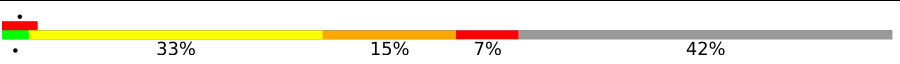
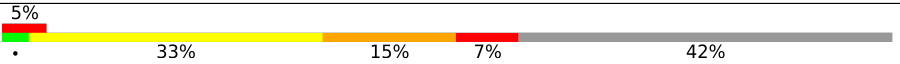
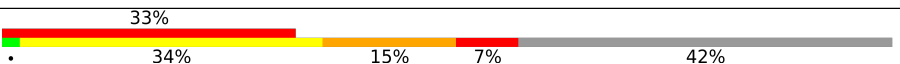
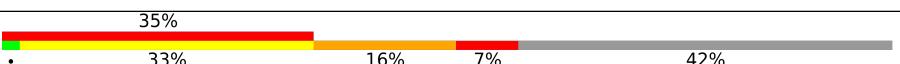
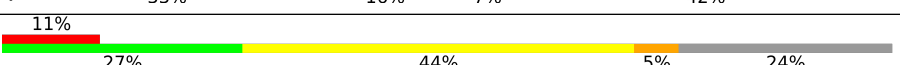
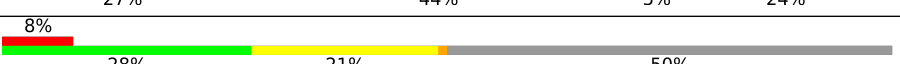
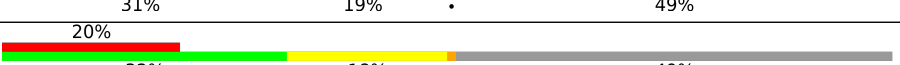
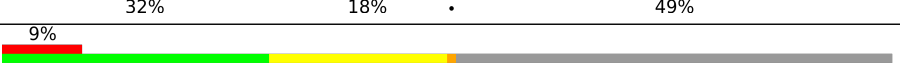
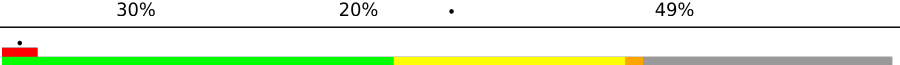
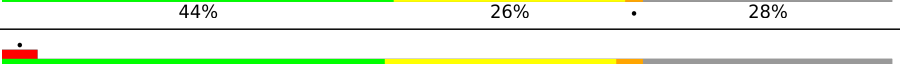
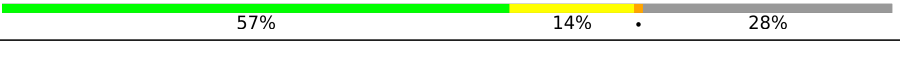
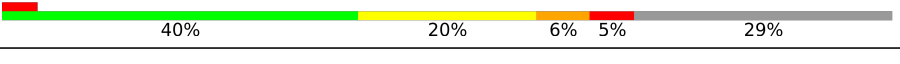
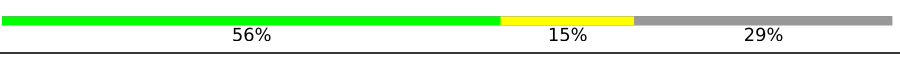
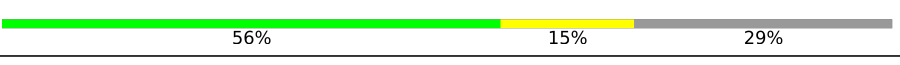
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Mol	Chain	Length	Quality of chain
31	3I	1940	
32	3J	749	
32	3K	749	
33	3L	401	
34	3M	507	
34	3N	507	
34	3O	507	
34	3P	507	
34	3Q	507	
34	3R	507	
34	3S	507	
34	3T	507	
34	3U	507	
34	3V	507	
34	3W	507	
34	3X	507	
34	3Y	507	
34	3Z	507	
34	4A	507	
34	4B	507	
35	4C	2215	
36	4D	304	
37	4E	2301	
37	4F	2301	
37	4G	2301	

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Mol	Chain	Length	Quality of chain
37	4H	2301	
38	4I	110	
38	4J	110	
38	4K	110	
38	4L	110	
38	4M	110	
38	4N	110	
38	4O	110	
38	4P	110	
39	4Q	427	
39	4R	427	
39	4S	427	
40	4T	835	
40	4U	835	
40	4V	835	
41	4W	173	
41	4X	173	
41	4Y	173	
41	4Z	173	
41	5A	173	
41	5B	173	
41	5C	173	
41	5D	173	
42	5E	286	
42	5F	286	

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Mol	Chain	Length	Quality of chain
42	5G	286	
42	5H	286	
43	5I	306	
43	5J	306	
43	5K	306	
43	5L	306	
44	5M	163	
44	5N	163	
44	5O	163	
44	5P	163	
44	5Q	163	
44	5R	163	
44	5S	163	
44	5T	163	
44	5U	163	
44	5V	163	
45	5W	137	
45	5X	137	
45	5Y	137	
46	5Z	181	
47	6A	1929	
47	6B	1929	
48	6E	1138	
48	6F	1138	
49	6G	477	

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Mol	Chain	Length	Quality of chain
49	6H	477	
49	6I	477	
49	6J	477	
50	6K	651	
50	6L	651	
51	6M	2540	
51	6N	2540	
52	6O	89	
52	6P	89	
52	6Q	89	

2 Entry composition

There are 54 unique types of molecules in this entry. The entry contains 793756 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 PF16.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0A	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0B	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0C	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0D	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0E	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0F	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0G	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0L	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0M	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0N	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0O	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0P	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0Q	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0R	499	Total	C	N	O	S	0	0
			3526	2215	625	675	11		
1	0S	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0T	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0U	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	0V	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0X	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0Y	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0Z	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	1A	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	1B	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	1C	499	Total	C	N	O	S	0	0
			3524	2214	624	675	11		
1	0H	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0J	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0W	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0I	499	Total	C	N	O	S	0	0
			3528	2217	625	675	11		
1	0K	499	Total	C	N	O	S	0	0
			3524	2214	624	675	11		

- Molecule 2 is a protein called FAP194.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1D	504	Total	C	N	O	S	0	0
			3213	1978	593	625	17		
2	1E	504	Total	C	N	O	S	0	0
			3213	1978	593	625	17		
2	1F	516	Total	C	N	O	S	0	0
			3292	2028	606	641	17		
2	1G	516	Total	C	N	O	S	0	0
			3292	2028	606	641	17		

- Molecule 3 is a protein called FAP69.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	1H	803	Total	C	N	O	S	0	0
			5778	3640	1042	1072	24		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	1I	803	Total	C	N	O	S	0	0
			5778	3640	1042	1072	24		
3	6D	801	Total	C	N	O	S	0	0
			6016	3811	1073	1105	27		

- Molecule 4 is a protein called HYDIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	1J	396	Total	C	N	O	S	0	0
			2856	1798	498	552	8		
4	1K	396	Total	C	N	O	S	0	0
			2856	1798	498	552	8		

- Molecule 5 is a protein called FAP47.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	1L	546	Total	C	N	O	S	0	0
			3368	2055	639	663	11		
5	1M	546	Total	C	N	O	S	0	0
			3368	2055	639	663	11		

- Molecule 6 is a protein called FAP46.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	1N	2179	Total	C	N	O	S	1	0
			16109	10108	2968	2963	70		

- Molecule 7 is a protein called FAP54.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	1O	2632	Total	C	N	O	S	0	0
			19593	12378	3583	3552	80		

- Molecule 8 is a protein called HTH_9 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	1P	295	Total	C	N	O	S	0	0
			2266	1435	393	431	7		

- Molecule 9 is a protein called FAP297.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	1Q	437	Total	C	N	O	S	0	0
			2335	1409	460	464	2		

- Molecule 10 is a protein called FAP108.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	1R	361	Total	C	N	O	S	0	0
			2753	1724	494	524	11		
10	1S	264	Total	C	N	O	S	0	0
			1984	1255	355	368	6		

- Molecule 11 is a protein called FAP76.

Mol	Chain	Residues	Atoms				AltConf	Trace
11	1T	972	Total	C	N	O	0	0
			4804	2857	975	972		

- Molecule 12 is a protein called Tubulin beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	1a	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	1c	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	1e	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	1g	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	2a	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	2c	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	2e	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	2g	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	3a	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	3c	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	3e	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		

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Mol	Chain	Residues	Atoms					AltConf	Trace
12	3g	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
12	4a	428	Total 3359	C 2110	N 576	O 643	S 30	0	0
12	4c	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
12	4e	428	Total 3359	C 2110	N 576	O 643	S 30	0	0
12	4g	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
12	5a	428	Total 3359	C 2110	N 576	O 643	S 30	0	0
12	5c	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
12	5e	428	Total 3359	C 2110	N 576	O 643	S 30	0	0
12	5g	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
12	6a	428	Total 3359	C 2110	N 576	O 643	S 30	0	0
12	6c	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
12	6e	428	Total 3359	C 2110	N 576	O 643	S 30	0	0
12	6g	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
12	7a	428	Total 3359	C 2110	N 576	O 643	S 30	0	0
12	7c	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
12	7e	428	Total 3359	C 2110	N 576	O 643	S 30	0	0
12	7g	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
12	8a	428	Total 3359	C 2110	N 576	O 643	S 30	0	0
12	8c	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
12	8e	428	Total 3359	C 2110	N 576	O 643	S 30	0	0
12	8g	431	Total 3379	C 2121	N 579	O 649	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
12	9a	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	9c	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	9e	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	9g	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	Aa	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	Ac	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	Ae	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	Ag	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	Ba	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	Bc	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	Be	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	Bg	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	Ca	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	Cc	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	Ce	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	Cg	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	Da	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	Dc	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
12	De	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
12	Dg	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		

- Molecule 13 is a protein called Tubulin alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	1b	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	1d	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	1f	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	1h	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	2b	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	2d	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	2f	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	2h	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	3b	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	3d	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	3f	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	3h	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	4b	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	4d	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	4f	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	4h	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	5b	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	5d	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	5f	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	5h	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	6b	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	6d	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	6f	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	6h	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	7b	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	7d	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	7f	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	7h	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	8b	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	8d	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	8f	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	8h	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	9b	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	9d	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	9f	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	9h	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	Ab	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	Ad	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	Af	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	Ah	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	Bb	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	Bd	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
13	Bf	430	Total 3339	C 2115	N 568	O 634	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	Bh	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	Cb	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	Cd	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	Cf	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	Ch	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	Db	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	Dd	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	Df	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
13	Dh	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		

- Molecule 14 is a protein called FAP275.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	2F	161	Total	C	N	O	S	0	0
			1228	758	238	228	4		
14	2G	161	Total	C	N	O	S	0	0
			1228	758	238	228	4		

- Molecule 15 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
15	2H	196	Total	C	N	O	0	0
			980	588	196	196		

- Molecule 16 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
16	2I	108	Total	C	N	O	0	0
			540	324	108	108		

- Molecule 17 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
17	2J	100	Total	C	N	O	0	0
			500	300	100	100		
17	2K	100	Total	C	N	O	0	0
			500	300	100	100		

- Molecule 18 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
18	2L	54	Total	C	N	O	0	0
			270	162	54	54		

- Molecule 19 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
19	2M	18	Total	C	N	O	0	0
			90	54	18	18		

- Molecule 20 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
20	2N	52	Total	C	N	O	0	0
			260	156	52	52		

- Molecule 21 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
21	2O	47	Total	C	N	O	0	0
			235	141	47	47		

- Molecule 22 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
22	2P	106	Total	C	N	O	0	0
			530	318	106	106		

- Molecule 23 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
23	2Q	110	Total	C	N	O	0	0
			550	330	110	110		
23	2R	110	Total	C	N	O	0	0
			550	330	110	110		

- Molecule 24 is a protein called FAP289.

Mol	Chain	Residues	Atoms				AltConf	Trace
24	2S	105	Total	C	N	O	0	0
			522	312	105	105		
24	2T	109	Total	C	N	O	S	0
			868	530	176	159	3	0
24	2U	111	Total	C	N	O	S	0
			882	539	178	162	3	0
24	2V	109	Total	C	N	O	S	0
			868	530	176	159	3	0

- Molecule 25 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
25	2W	167	Total	C	N	O	0	0
			835	501	167	167		
25	2X	167	Total	C	N	O	0	0
			835	501	167	167		

- Molecule 26 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
26	2Y	65	Total	C	N	O	0	0
			325	195	65	65		
26	2Z	65	Total	C	N	O	0	0
			325	195	65	65		

- Molecule 27 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
27	3A	36	Total	C	N	O	0	0
			180	108	36	36		
27	3B	36	Total	C	N	O	0	0
			180	108	36	36		

- Molecule 28 is a protein called FAP216.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	3C	61	Total	C	N	O	S	0	0
			480	291	96	92	1		

- Molecule 29 is a protein called FAP92.

Mol	Chain	Residues	Atoms				AltConf	Trace
29	3E	87	Total	C	N	O	0	0
			671	406	142	123		

- Molecule 30 is a protein called FAP99.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	3F	444	Total	C	N	O	S	0	0
			3386	2041	688	650	7		
30	3G	240	Total	C	N	O	S	0	0
			1904	1142	391	367	4		

- Molecule 31 is a protein called FAP74.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	3H	308	Total	C	N	O	S	0	0
			1958	1190	379	387	2		
31	3I	401	Total	C	N	O	S	0	0
			3118	1904	606	601	7		

- Molecule 32 is a protein called FAP360.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	3J	372	Total	C	N	O	S	0	0
			2792	1758	501	519	14		
32	3K	367	Total	C	N	O	S	0	0
			2767	1745	495	513	14		

- Molecule 33 is a protein called FAP279.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	3L	197	Total	C	N	O	S	0	0
			1572	1001	278	287	6		

- Molecule 34 is a protein called FAP7.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	3M	387	Total	C	N	O	S	0	0
			2989	1825	572	580	12		
34	3N	392	Total	C	N	O	S	0	0
			3040	1861	578	589	12		
34	3O	353	Total	C	N	O	S	0	0
			2775	1696	535	532	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
34	3P	355	Total	C	N	O	S	0	0
			2795	1712	537	534	12		
34	3Q	353	Total	C	N	O	S	0	0
			2775	1696	535	532	12		
34	3R	358	Total	C	N	O	S	0	0
			2814	1723	540	539	12		
34	3S	387	Total	C	N	O	S	0	0
			2989	1825	572	580	12		
34	3T	392	Total	C	N	O	S	0	0
			3040	1861	578	589	12		
34	3U	355	Total	C	N	O	S	0	0
			2795	1712	537	534	12		
34	3V	410	Total	C	N	O	S	0	0
			3192	1954	611	614	13		
34	3W	411	Total	C	N	O	S	0	0
			3198	1956	612	617	13		
34	3X	358	Total	C	N	O	S	0	0
			2814	1723	540	539	12		
34	3Y	358	Total	C	N	O	S	0	0
			2814	1723	540	539	12		
34	3Z	358	Total	C	N	O	S	0	0
			2814	1723	540	539	12		
34	4A	410	Total	C	N	O	S	0	0
			3192	1954	611	614	13		
34	4B	411	Total	C	N	O	S	0	0
			3198	1956	612	617	13		

- Molecule 35 is a protein called FAP81.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	4C	634	Total	C	N	O	S	0	0
			4846	3052	870	902	22		

- Molecule 36 is a protein called FAP15.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	4D	295	Total	C	N	O	S	0	0
			2372	1515	397	442	18		

- Molecule 37 is a protein called PF6.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	4E	983	Total	C	N	O	S	0	0
			7227	4588	1245	1365	29		
37	4F	965	Total	C	N	O	S	0	0
			7056	4482	1212	1335	27		
37	4G	965	Total	C	N	O	S	0	0
			7056	4482	1212	1335	27		
37	4H	965	Total	C	N	O	S	0	0
			7056	4482	1212	1335	27		

- Molecule 38 is a protein called DPY30.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	4I	64	Total	C	N	O	S	0	0
			491	317	84	87	3		
38	4J	64	Total	C	N	O	S	0	0
			491	317	84	87	3		
38	4K	64	Total	C	N	O	S	0	0
			491	317	84	87	3		
38	4L	64	Total	C	N	O	S	0	0
			491	317	84	87	3		
38	4M	64	Total	C	N	O	S	0	0
			491	317	84	87	3		
38	4N	64	Total	C	N	O	S	0	0
			491	317	84	87	3		
38	4O	84	Total	C	N	O	S	0	0
			626	400	106	117	3		
38	4P	55	Total	C	N	O	S	0	0
			424	275	73	73	3		

- Molecule 39 is a protein called FAP305.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	4Q	216	Total	C	N	O	S	0	0
			1778	1127	344	302	5		
39	4R	216	Total	C	N	O	S	0	0
			1778	1127	344	302	5		
39	4S	216	Total	C	N	O	S	0	0
			1778	1127	344	302	5		

- Molecule 40 is a protein called FAP101.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	4T	602	Total	C	N	O	S	0	0
			4494	2824	814	839	17		
40	4U	602	Total	C	N	O	S	0	0
			4494	2824	814	839	17		
40	4V	602	Total	C	N	O	S	0	0
			4494	2824	814	839	17		

- Molecule 41 is a protein called FAP227.

Mol	Chain	Residues	Atoms				AltConf	Trace
41	4W	124	Total	C	N	O	0	0
			597	349	124	124		
41	4X	124	Total	C	N	O	0	0
			597	349	124	124		
41	4Y	124	Total	C	N	O	0	0
			597	349	124	124		
41	4Z	124	Total	C	N	O	0	0
			597	349	124	124		
41	5A	123	Total	C	N	O	0	0
			592	346	123	123		
41	5B	123	Total	C	N	O	0	0
			592	346	123	123		
41	5C	123	Total	C	N	O	0	0
			592	346	123	123		
41	5D	123	Total	C	N	O	0	0
			592	346	123	123		

- Molecule 42 is a protein called FAP114.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	5E	216	Total	C	N	O	S	0	0
			1562	993	272	292	5		
42	5F	216	Total	C	N	O	S	0	0
			1562	993	272	292	5		
42	5G	216	Total	C	N	O	S	0	0
			1562	993	272	292	5		
42	5H	165	Total	C	N	O	S	0	0
			1307	840	221	241	5		

- Molecule 43 is a protein called FAP119.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	5I	211	Total	C	N	O	S	0	0
			1594	1020	276	292	6		
43	5J	211	Total	C	N	O	S	0	0
			1594	1020	276	292	6		
43	5K	211	Total	C	N	O	S	0	0
			1594	1020	276	292	6		
43	5L	211	Total	C	N	O	S	0	0
			1594	1020	276	292	6		

- Molecule 44 is a protein called Calmodulin.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	5M	142	Total	C	N	O		0	0
			699	415	142	142			
44	5N	142	Total	C	N	O		0	0
			699	415	142	142			
44	5O	142	Total	C	N	O		0	0
			699	415	142	142			
44	5Q	146	Total	C	N	O	S	0	0
			1153	710	186	248	9		
44	5R	146	Total	C	N	O	S	0	0
			1153	710	186	248	9		
44	5S	145	Total	C	N	O	S	0	0
			1144	705	185	245	9		
44	5T	145	Total	C	N	O	S	0	0
			1144	705	185	245	9		
44	5U	145	Total	C	N	O	S	0	0
			1144	705	185	245	9		
44	5V	149	Total	C	N	O	S	0	0
			1166	714	190	253	9		
44	5P	146	Total	C	N	O	S	0	0
			1153	710	186	248	9		

- Molecule 45 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
45	5W	137	Total	C	N	O	0	0
			685	411	137	137		
45	5X	137	Total	C	N	O	0	0
			685	411	137	137		
45	5Y	137	Total	C	N	O	0	0
			685	411	137	137		

- Molecule 46 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	5Z	181	Total	C	N	O	S	0	0
			978	603	191	181	3		

- Molecule 47 is a protein called CPC1.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	6A	1558	Total	C	N	O	S	0	0
			11821	7347	2181	2246	47		
47	6B	1558	Total	C	N	O	S	0	0
			11821	7347	2181	2246	47		

- Molecule 48 is a protein called FAP246.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	6E	904	Total	C	N	O	S	0	0
			6892	4372	1255	1236	29		
48	6F	904	Total	C	N	O	S	0	0
			6892	4372	1255	1236	29		

- Molecule 49 is a protein called Phosphopyruvate hydratase.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	6G	476	Total	C	N	O	S	0	0
			3606	2262	615	707	22		
49	6H	476	Total	C	N	O	S	0	0
			3606	2262	615	707	22		
49	6I	476	Total	C	N	O	S	0	0
			3606	2262	615	707	22		
49	6J	476	Total	C	N	O	S	0	0
			3606	2262	615	707	22		

- Molecule 50 is a protein called Heat shock protein 70A.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	6K	609	Total	C	N	O	S	0	0
			4731	2963	821	927	20		
50	6L	609	Total	C	N	O	S	0	0
			4731	2963	821	927	20		

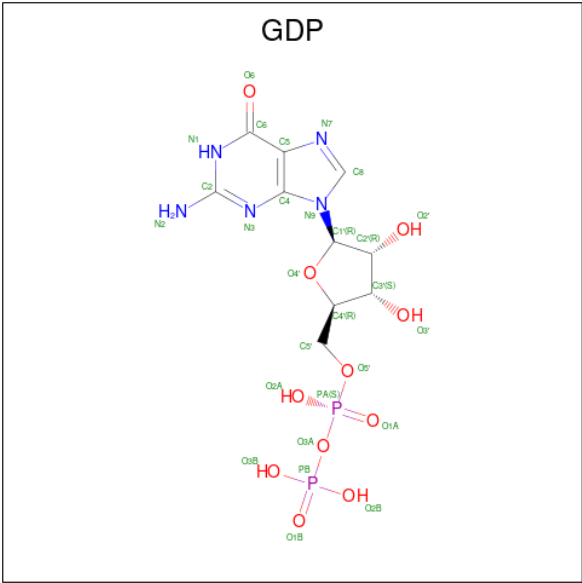
- Molecule 51 is a protein called FAP42.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	6M	1075	Total	C	N	O	S	0	0
			8050	5038	1459	1512	41		
51	6N	1075	Total	C	N	O	S	0	0
			8050	5038	1459	1512	41		

- Molecule 52 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
52	6O	89	Total	C	N	O	0	0
			444	266	89	89		
52	6P	89	Total	C	N	O	0	0
			444	266	89	89		
52	6Q	89	Total	C	N	O	0	0
			444	266	89	89		

- Molecule 53 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: C₁₀H₁₅N₅O₁₁P₂).



Mol	Chain	Residues	Atoms					AltConf
53	1a	1	Total	C	N	O	P	0
			28	10	5	11	2	
53	1c	1	Total	C	N	O	P	0
			28	10	5	11	2	
53	1e	1	Total	C	N	O	P	0
			28	10	5	11	2	
53	1g	1	Total	C	N	O	P	0
			28	10	5	11	2	
53	2a	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
53	2c	1	28	10	5	11	2	0
53	2e	1	28	10	5	11	2	0
53	2g	1	28	10	5	11	2	0
53	3a	1	28	10	5	11	2	0
53	3c	1	28	10	5	11	2	0
53	3e	1	28	10	5	11	2	0
53	3g	1	28	10	5	11	2	0
53	4a	1	28	10	5	11	2	0
53	4c	1	28	10	5	11	2	0
53	4e	1	28	10	5	11	2	0
53	4g	1	28	10	5	11	2	0
53	5a	1	28	10	5	11	2	0
53	5c	1	28	10	5	11	2	0
53	5e	1	28	10	5	11	2	0
53	5g	1	28	10	5	11	2	0
53	6a	1	28	10	5	11	2	0
53	6c	1	28	10	5	11	2	0
53	6e	1	28	10	5	11	2	0
53	6g	1	28	10	5	11	2	0
53	7a	1	28	10	5	11	2	0
53	7c	1	28	10	5	11	2	0

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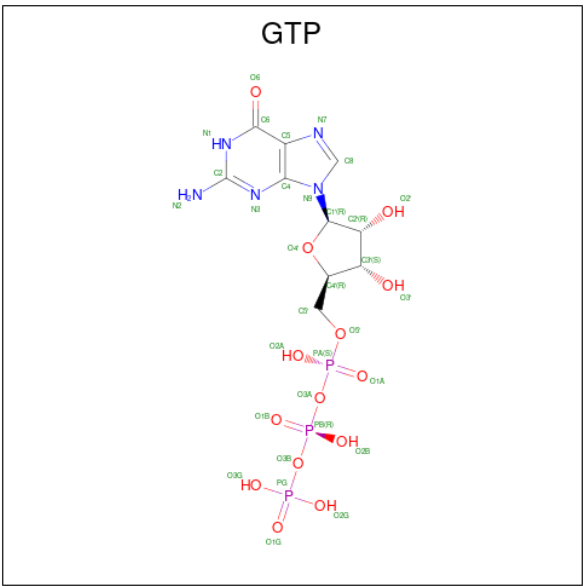
Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
53	7e	1	28	10	5	11	2	0
53	7g	1	28	10	5	11	2	0
53	8a	1	28	10	5	11	2	0
53	8c	1	28	10	5	11	2	0
53	8e	1	28	10	5	11	2	0
53	8g	1	28	10	5	11	2	0
53	9a	1	28	10	5	11	2	0
53	9c	1	28	10	5	11	2	0
53	9e	1	28	10	5	11	2	0
53	9g	1	28	10	5	11	2	0
53	Aa	1	28	10	5	11	2	0
53	Ac	1	28	10	5	11	2	0
53	Ae	1	28	10	5	11	2	0
53	Ag	1	28	10	5	11	2	0
53	Ba	1	28	10	5	11	2	0
53	Bc	1	28	10	5	11	2	0
53	Be	1	28	10	5	11	2	0
53	Bg	1	28	10	5	11	2	0
53	Ca	1	28	10	5	11	2	0
53	Cc	1	28	10	5	11	2	0
53	Ce	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
53	Cg	1	Total	C	N	O	P	0
			28	10	5	11	2	
53	Da	1	Total	C	N	O	P	0
			28	10	5	11	2	
53	Dc	1	Total	C	N	O	P	0
			28	10	5	11	2	
53	De	1	Total	C	N	O	P	0
			28	10	5	11	2	
53	Dg	1	Total	C	N	O	P	0
			28	10	5	11	2	

- Molecule 54 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula: C₁₀H₁₆N₅O₁₄P₃).



Mol	Chain	Residues	Atoms					AltConf
54	1b	1	Total	C	N	O	P	0
			32	10	5	14	3	
54	1d	1	Total	C	N	O	P	0
			32	10	5	14	3	
54	1f	1	Total	C	N	O	P	0
			32	10	5	14	3	
54	1h	1	Total	C	N	O	P	0
			32	10	5	14	3	
54	2b	1	Total	C	N	O	P	0
			32	10	5	14	3	
54	2d	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
54	2f	1	32	10	5	14	3	0
54	2h	1	32	10	5	14	3	0
54	3c	1	32	10	5	14	3	0
54	3d	1	32	10	5	14	3	0
54	3f	1	32	10	5	14	3	0
54	3h	1	32	10	5	14	3	0
54	4b	1	32	10	5	14	3	0
54	4d	1	32	10	5	14	3	0
54	4f	1	32	10	5	14	3	0
54	4h	1	32	10	5	14	3	0
54	5c	1	32	10	5	14	3	0
54	5d	1	32	10	5	14	3	0
54	5f	1	32	10	5	14	3	0
54	5h	1	32	10	5	14	3	0
54	6c	1	32	10	5	14	3	0
54	6e	1	32	10	5	14	3	0
54	6g	1	32	10	5	14	3	0
54	6h	1	32	10	5	14	3	0
54	7b	1	32	10	5	14	3	0
54	7e	1	32	10	5	14	3	0
54	7f	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
54	7h	1	32	10	5	14	3	0
54	8b	1	32	10	5	14	3	0
54	8d	1	32	10	5	14	3	0
54	8f	1	32	10	5	14	3	0
54	8h	1	32	10	5	14	3	0
54	9b	1	32	10	5	14	3	0
54	9e	1	32	10	5	14	3	0
54	9f	1	32	10	5	14	3	0
54	9h	1	32	10	5	14	3	0
54	Ab	1	32	10	5	14	3	0
54	Ae	1	32	10	5	14	3	0
54	Af	1	32	10	5	14	3	0
54	Ah	1	32	10	5	14	3	0
54	Bb	1	32	10	5	14	3	0
54	Bd	1	32	10	5	14	3	0
54	Bf	1	32	10	5	14	3	0
54	Bh	1	32	10	5	14	3	0
54	Cc	1	32	10	5	14	3	0
54	Cd	1	32	10	5	14	3	0
54	Cf	1	32	10	5	14	3	0
54	Ch	1	32	10	5	14	3	0

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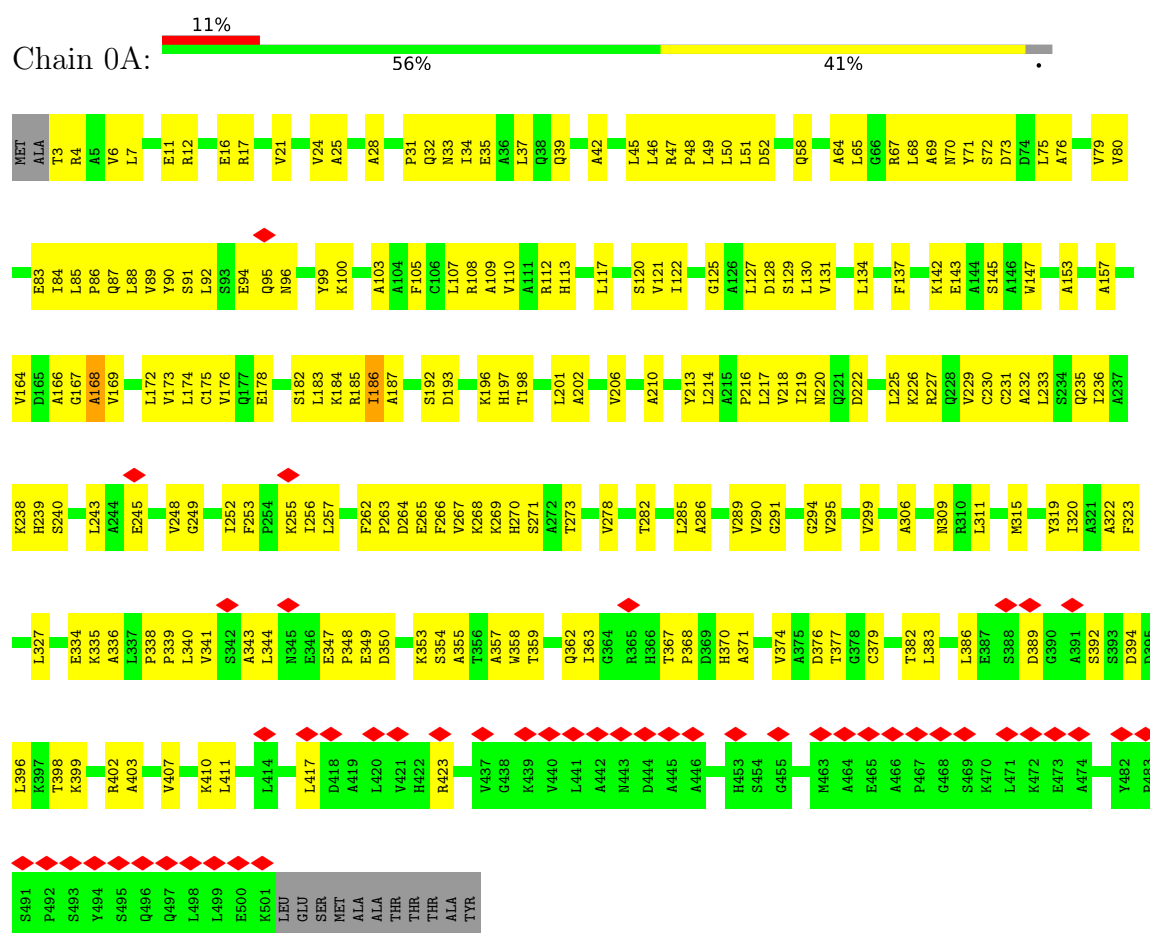
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Mol	Chain	Residues	Atoms					AltConf
54	Db	1	Total 32	C 10	N 5	O 14	P 3	0
54	Dd	1	Total 32	C 10	N 5	O 14	P 3	0
54	Df	1	Total 32	C 10	N 5	O 14	P 3	0
54	Dh	1	Total 32	C 10	N 5	O 14	P 3	0

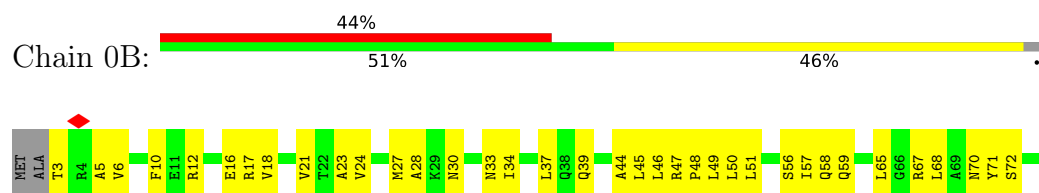
3 Residue-property plots [i](#)

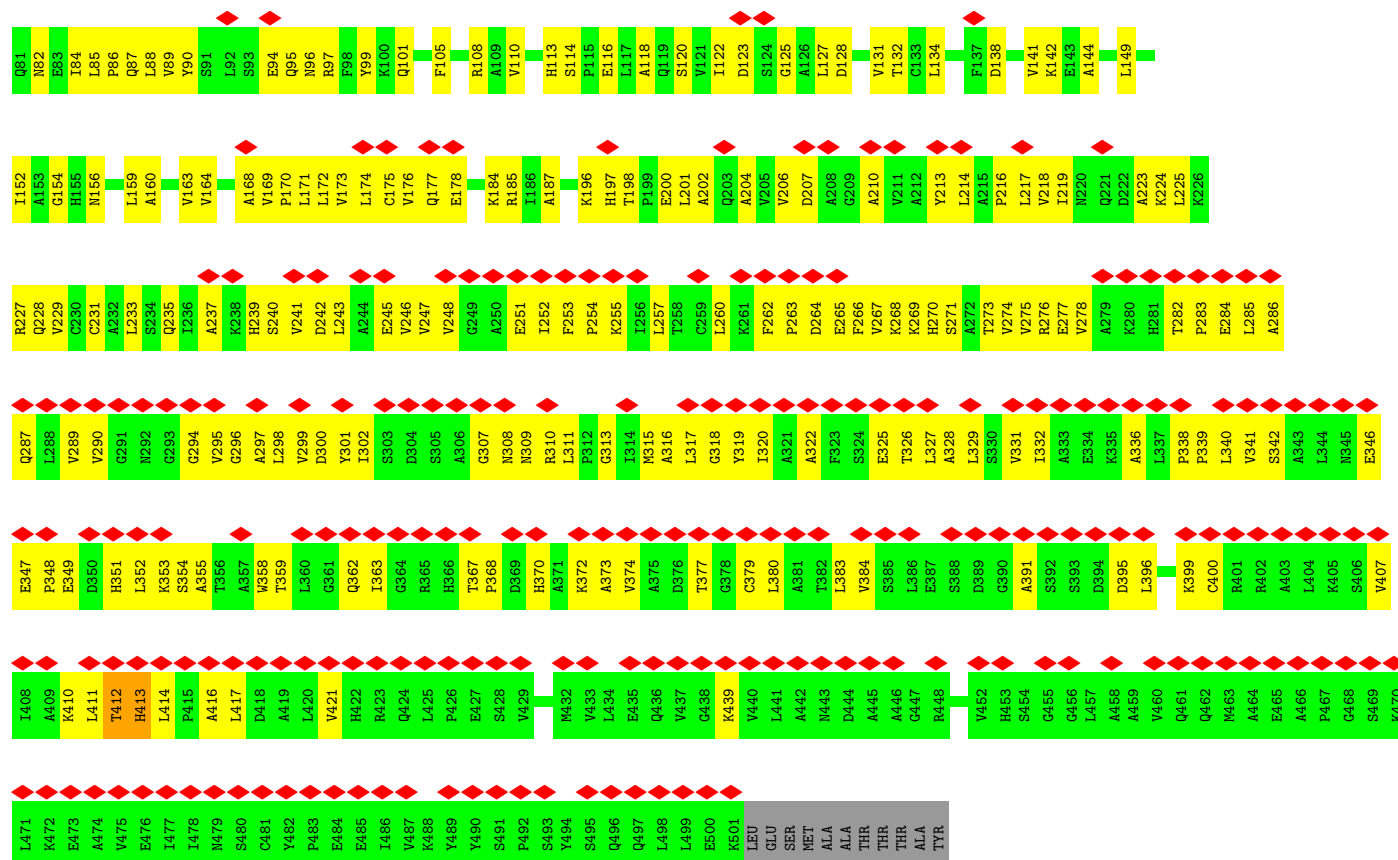
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: PF16

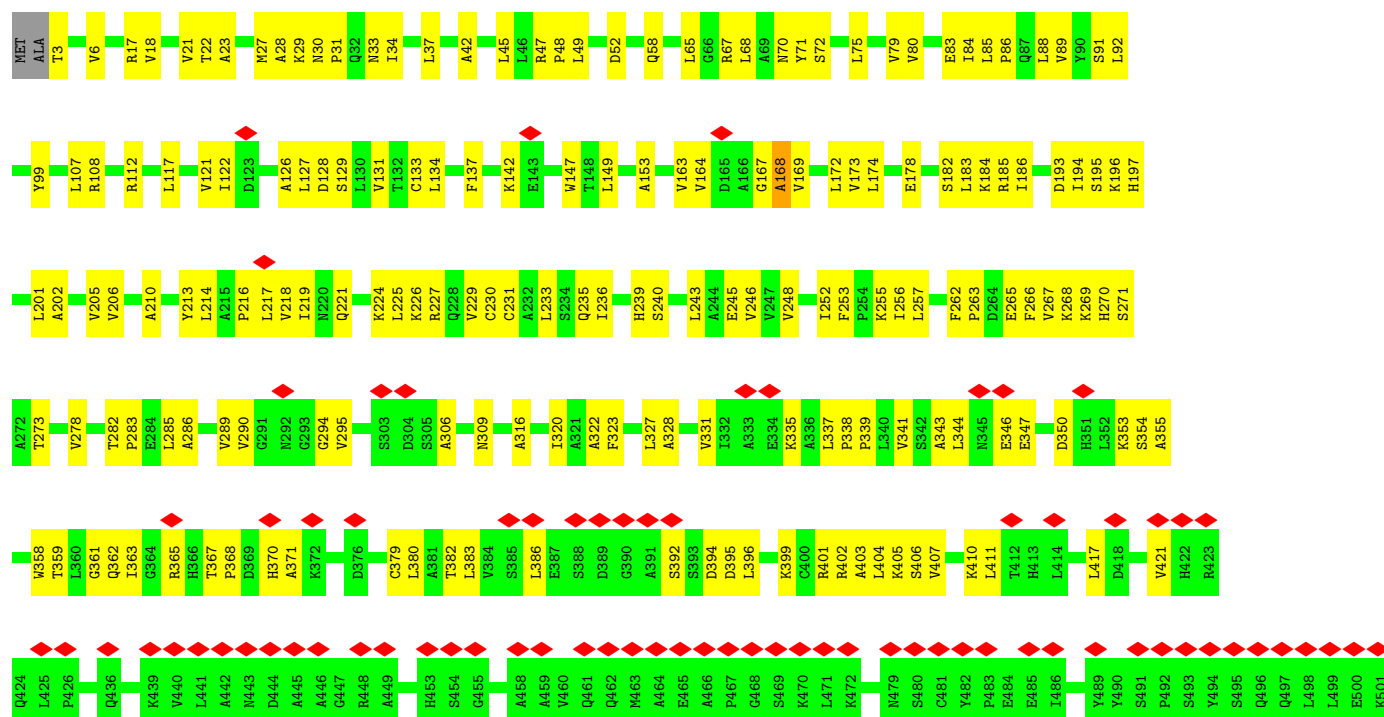


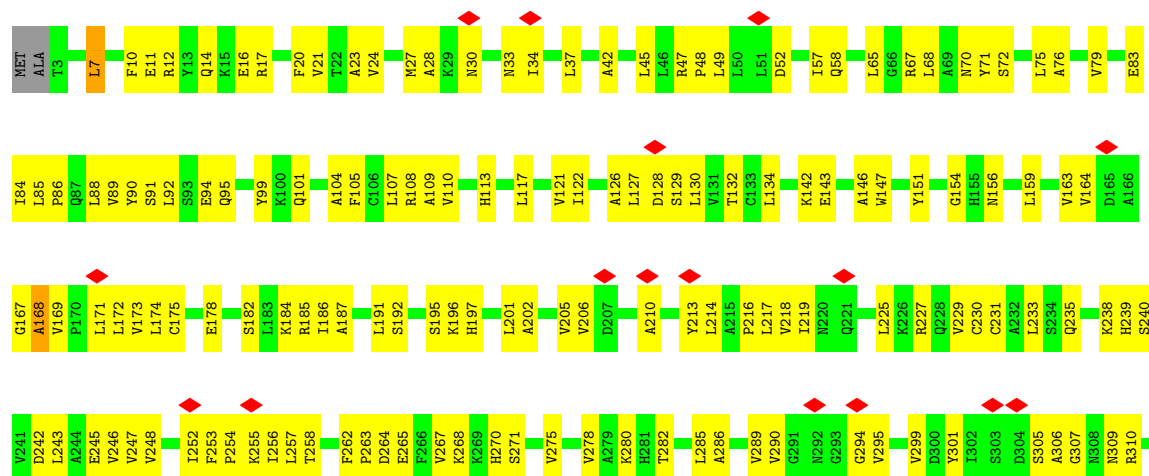
• Molecule 1: PF16

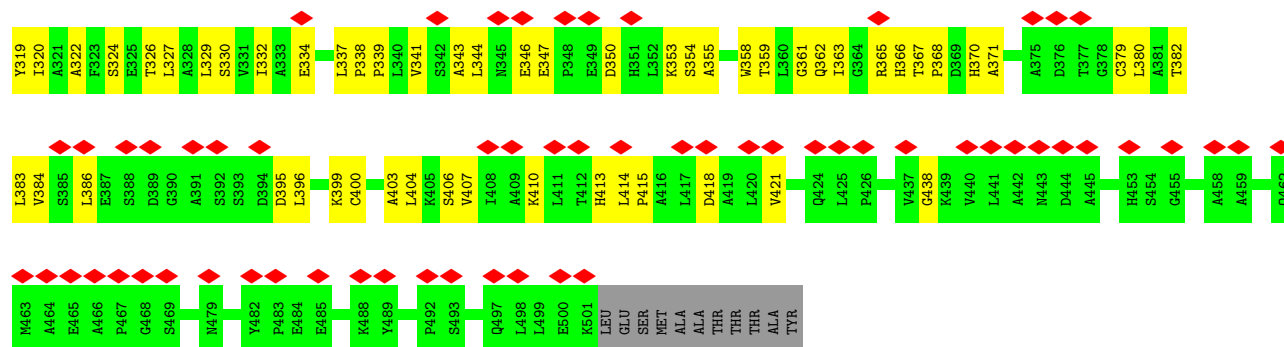




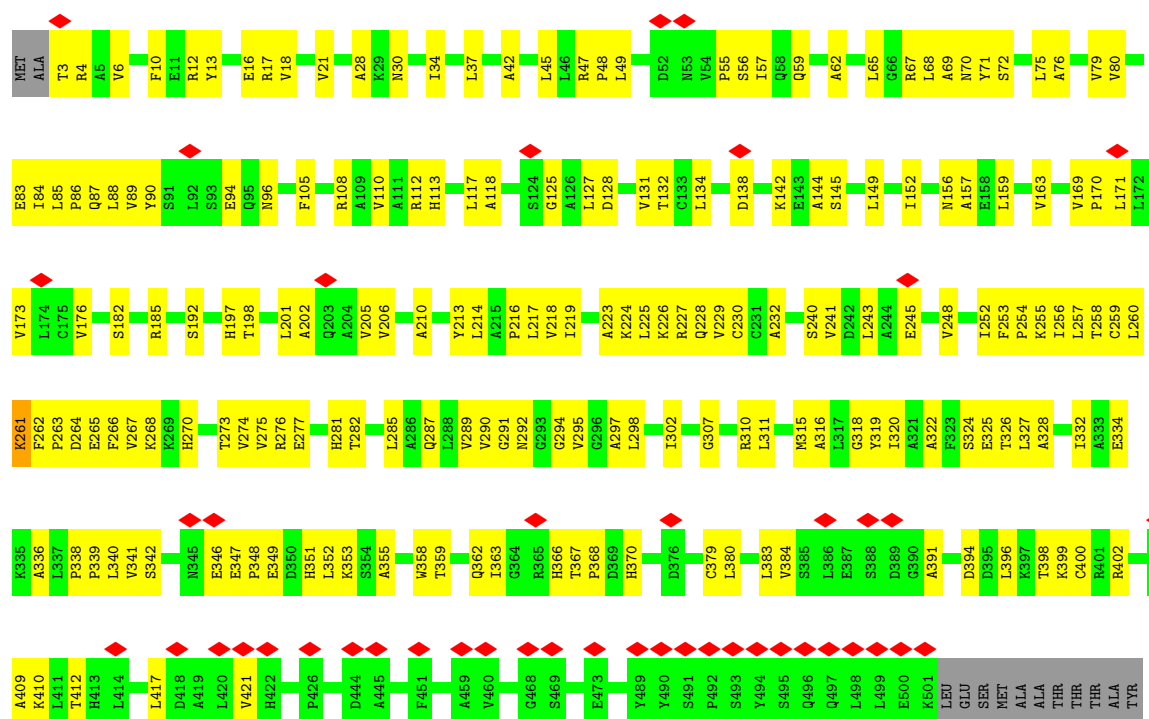
• Molecule 1: PF16



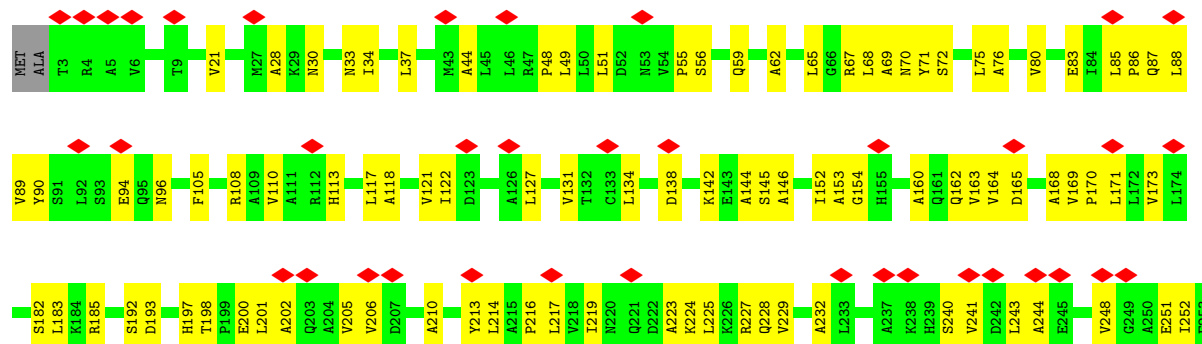


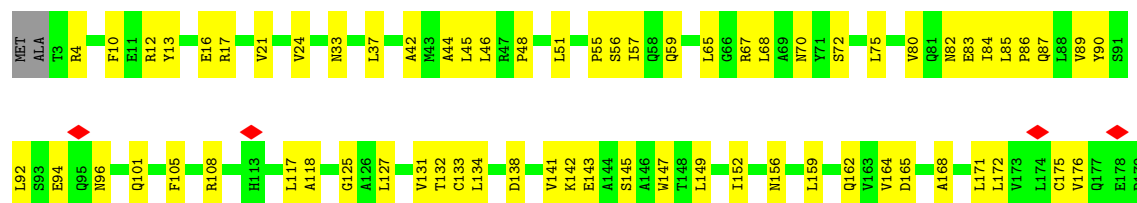


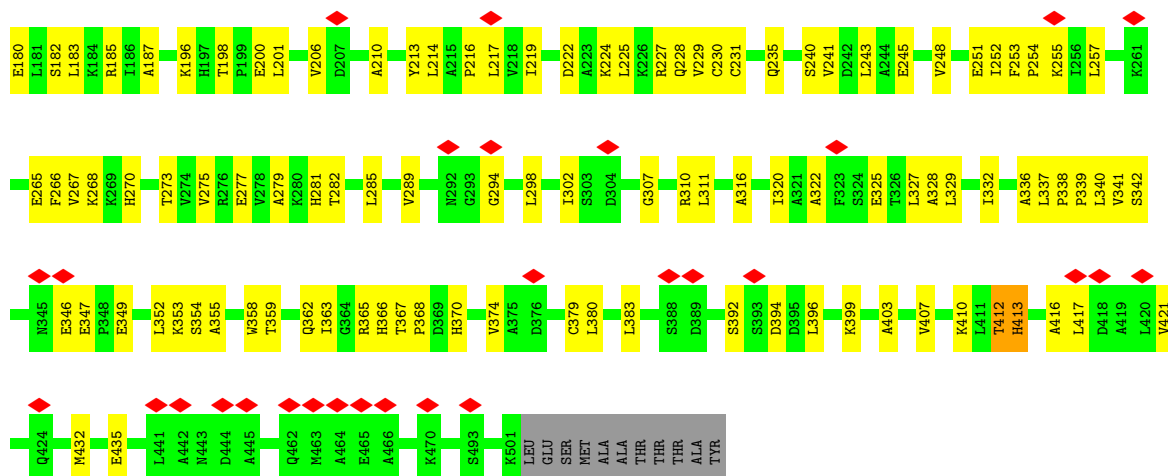
• Molecule 1: PF16



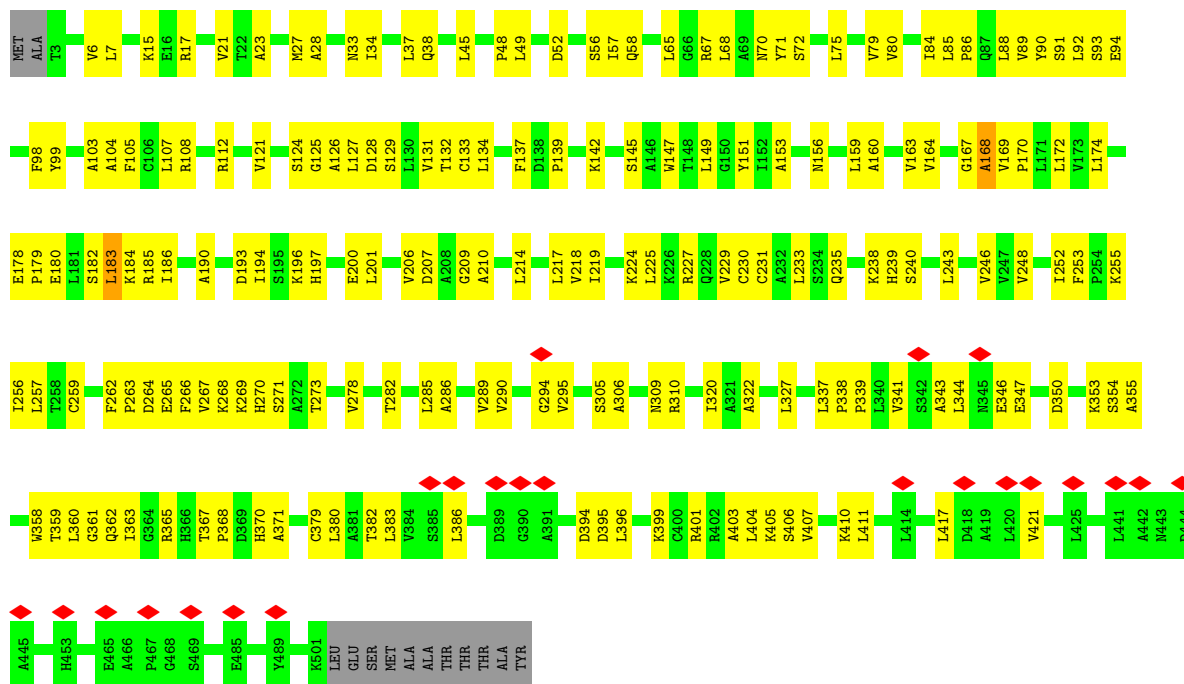
• Molecule 1: PF16



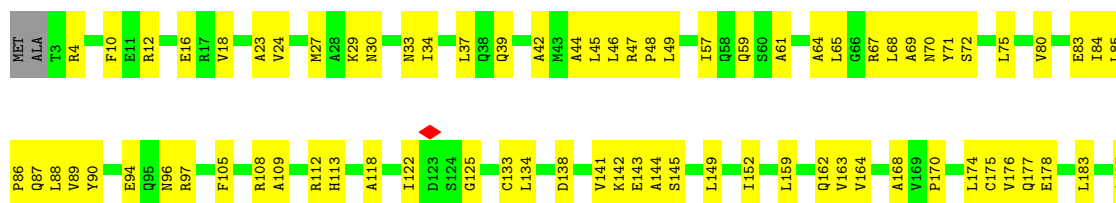


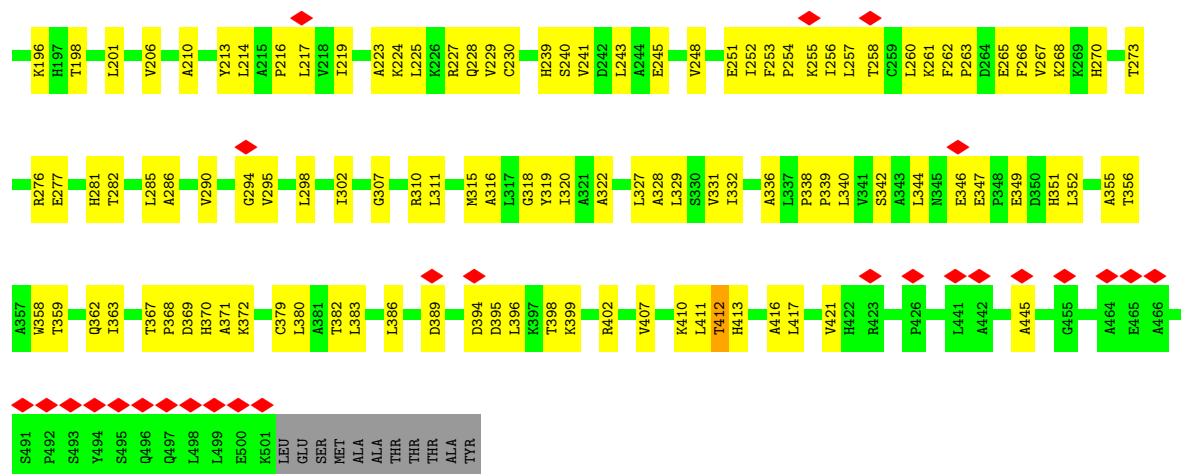


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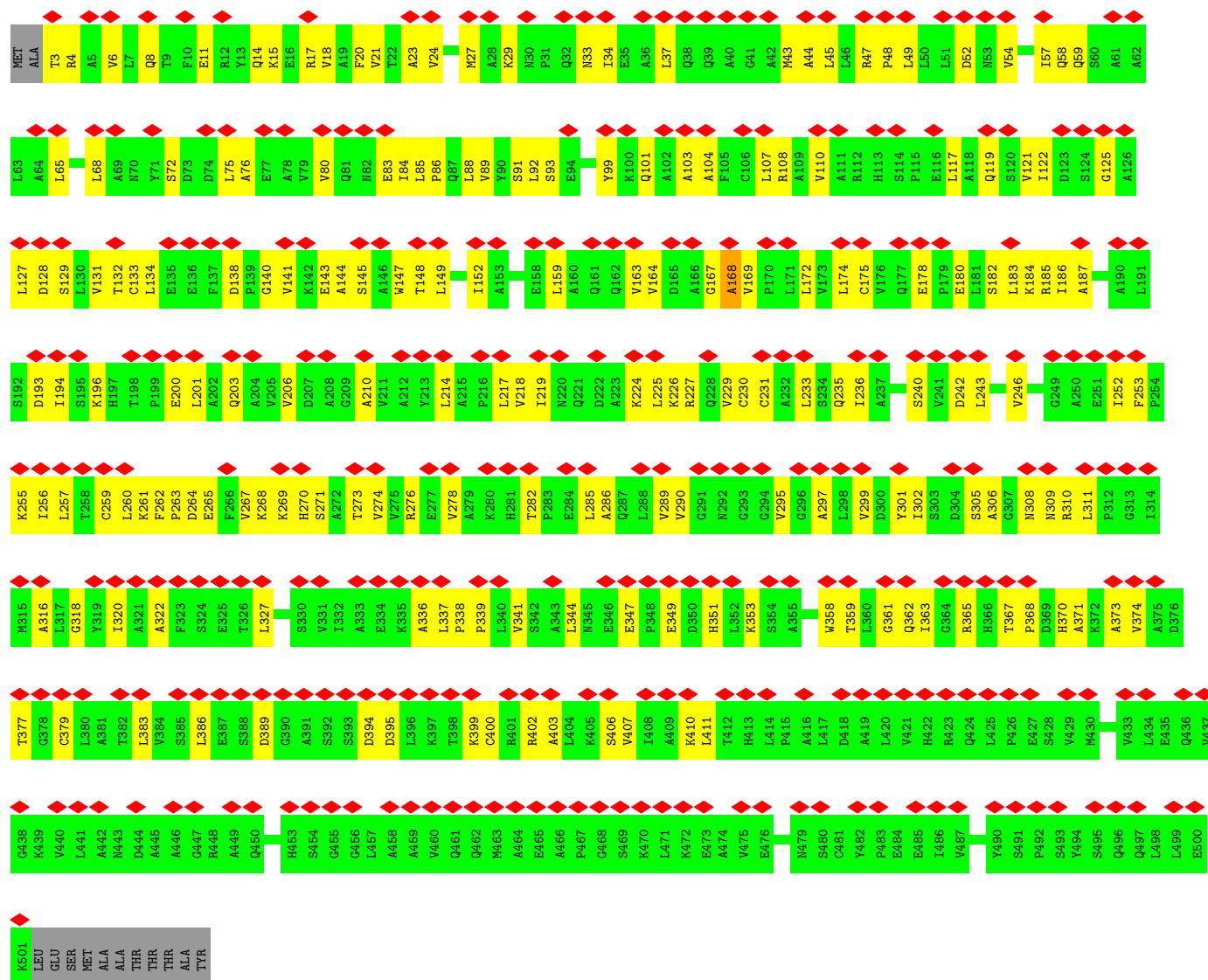


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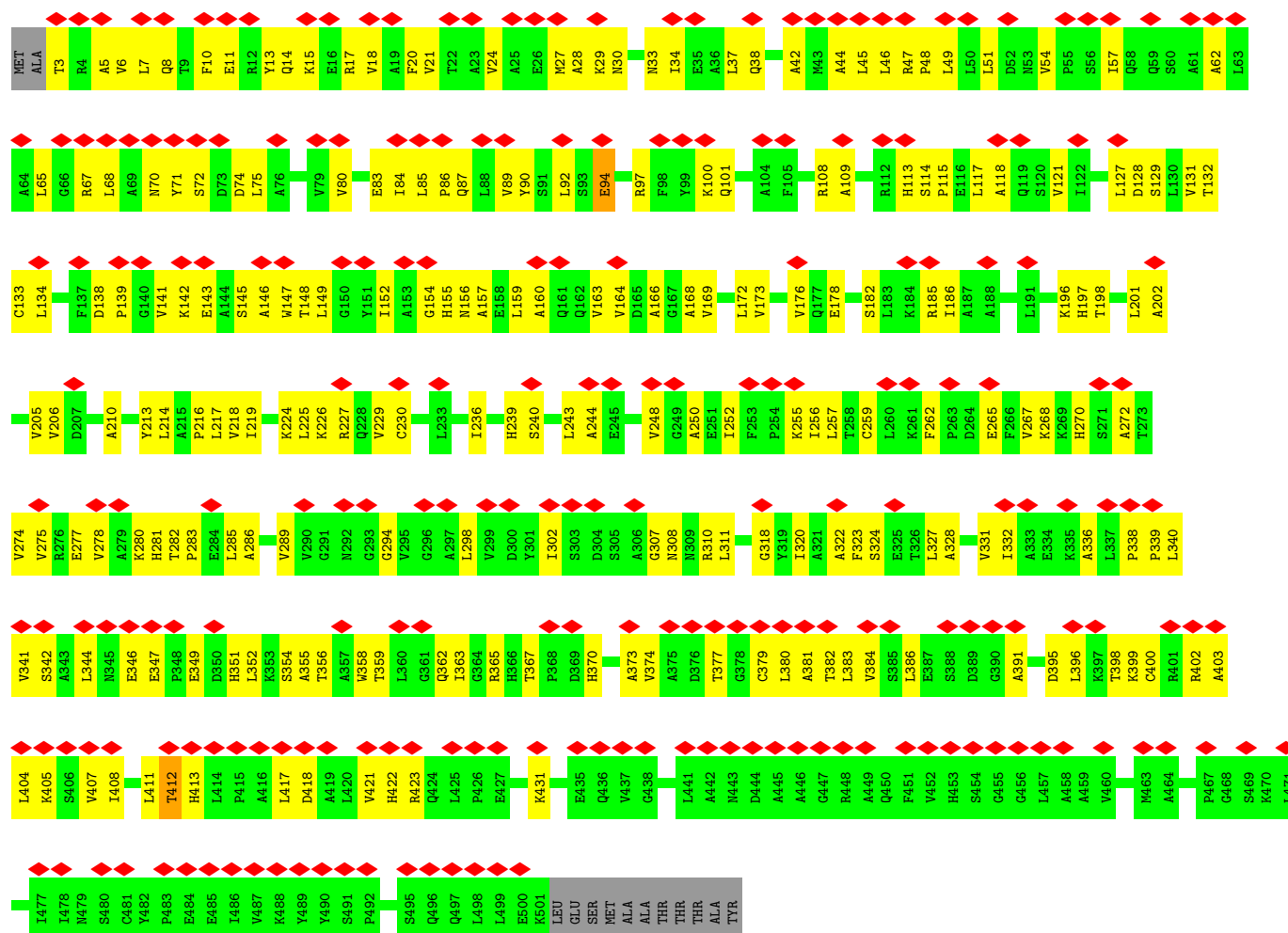




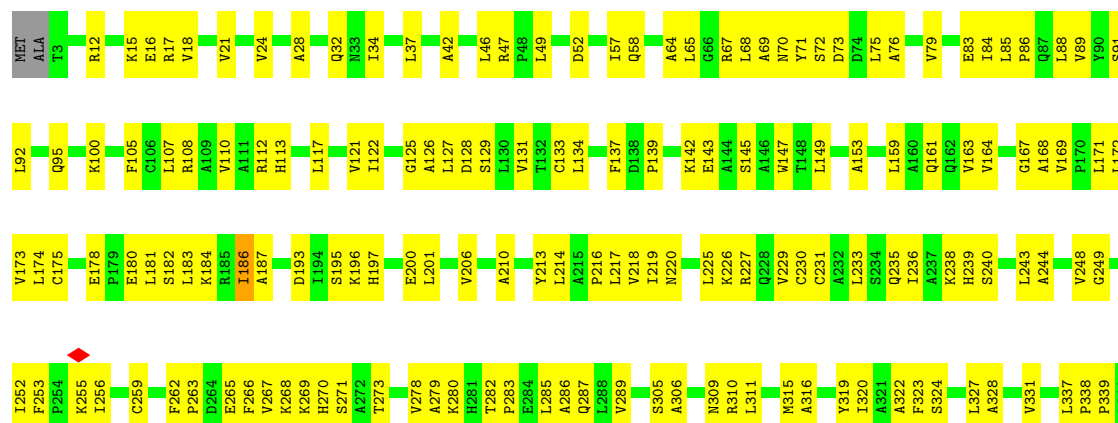
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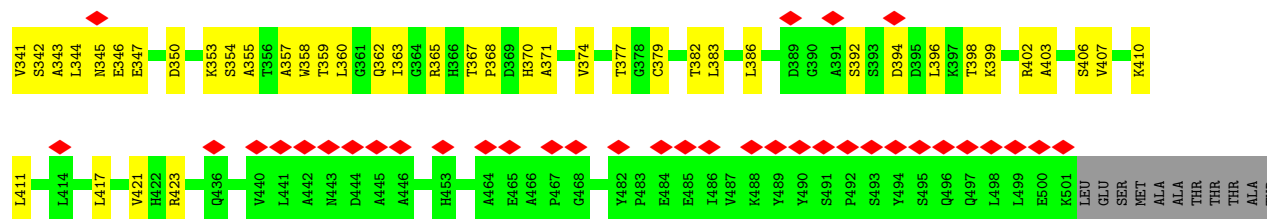


- Molecule 1: PF16

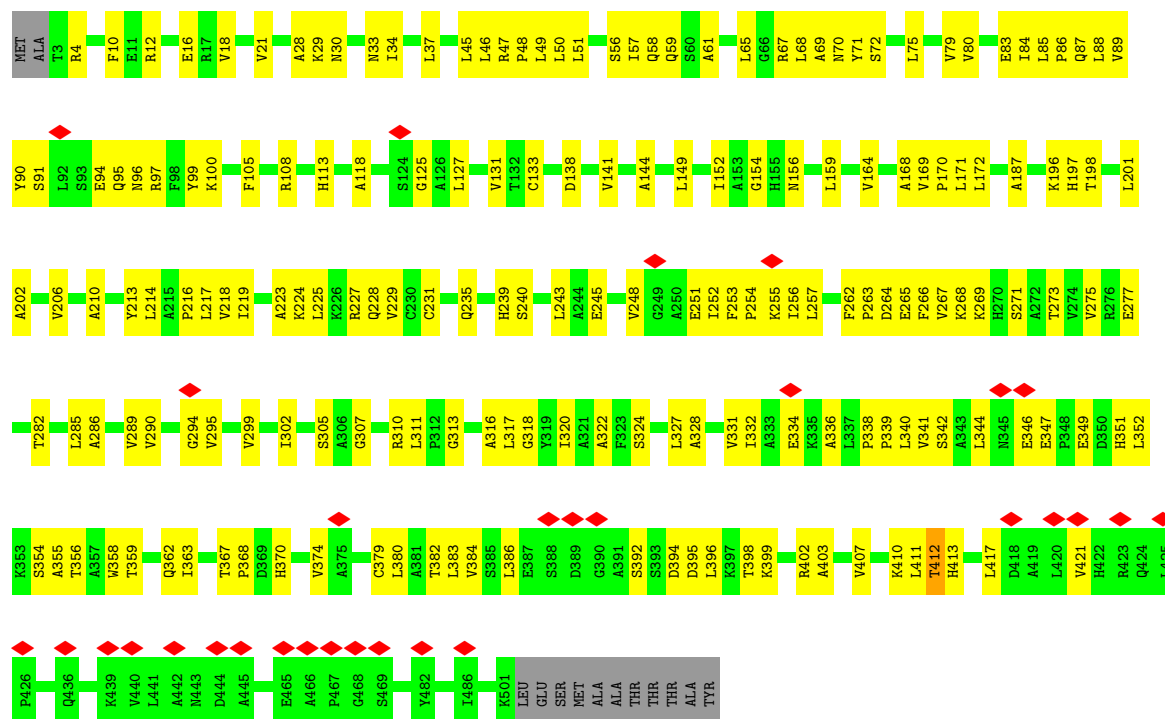


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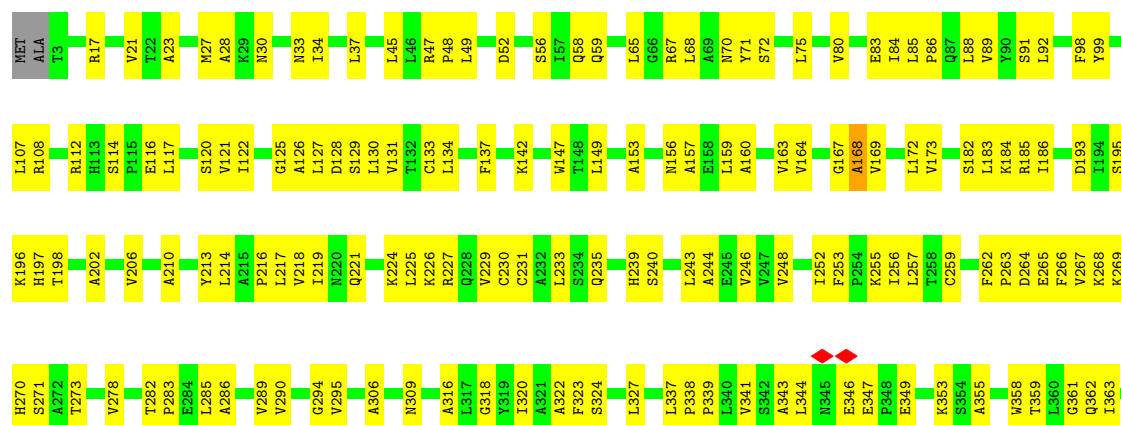


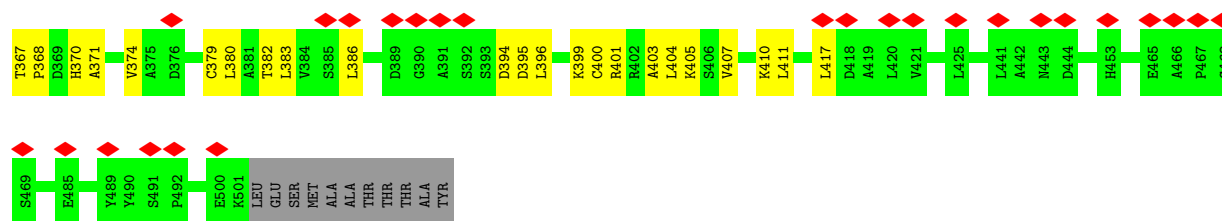


• Molecule 1: PF16



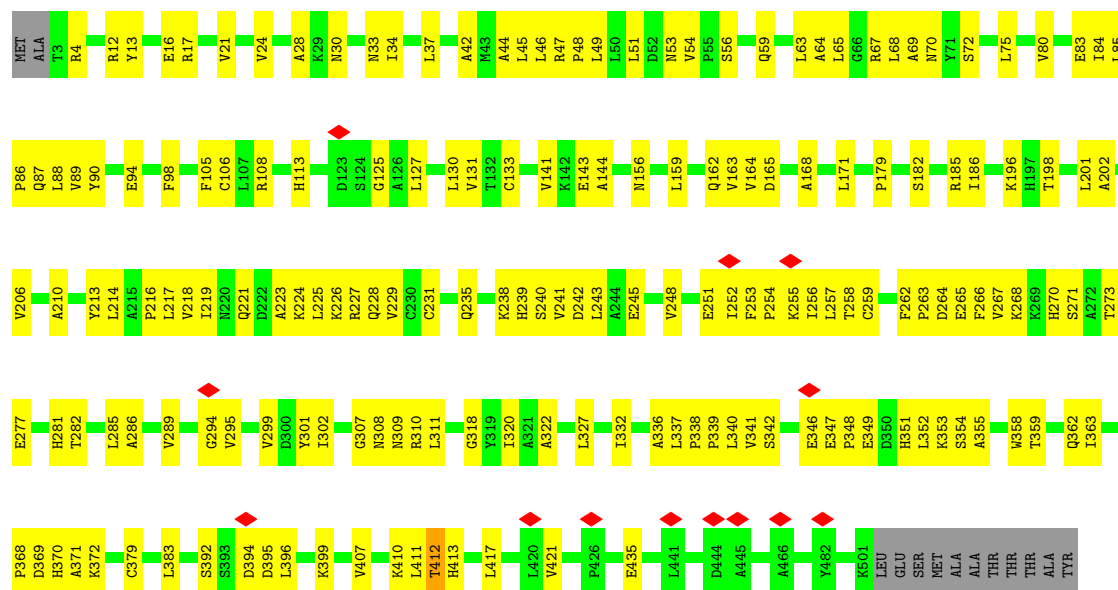
• Molecule 1: PF16





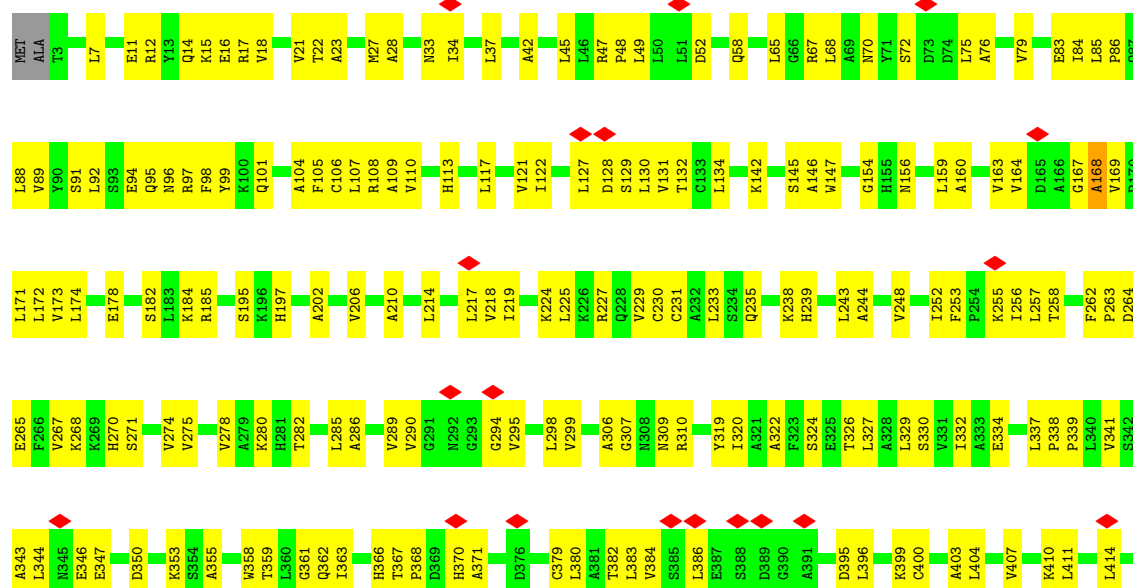
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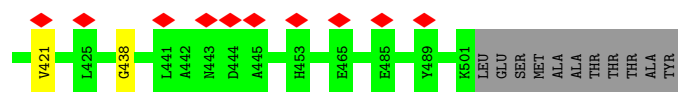
Chain 0U: 62% 35%



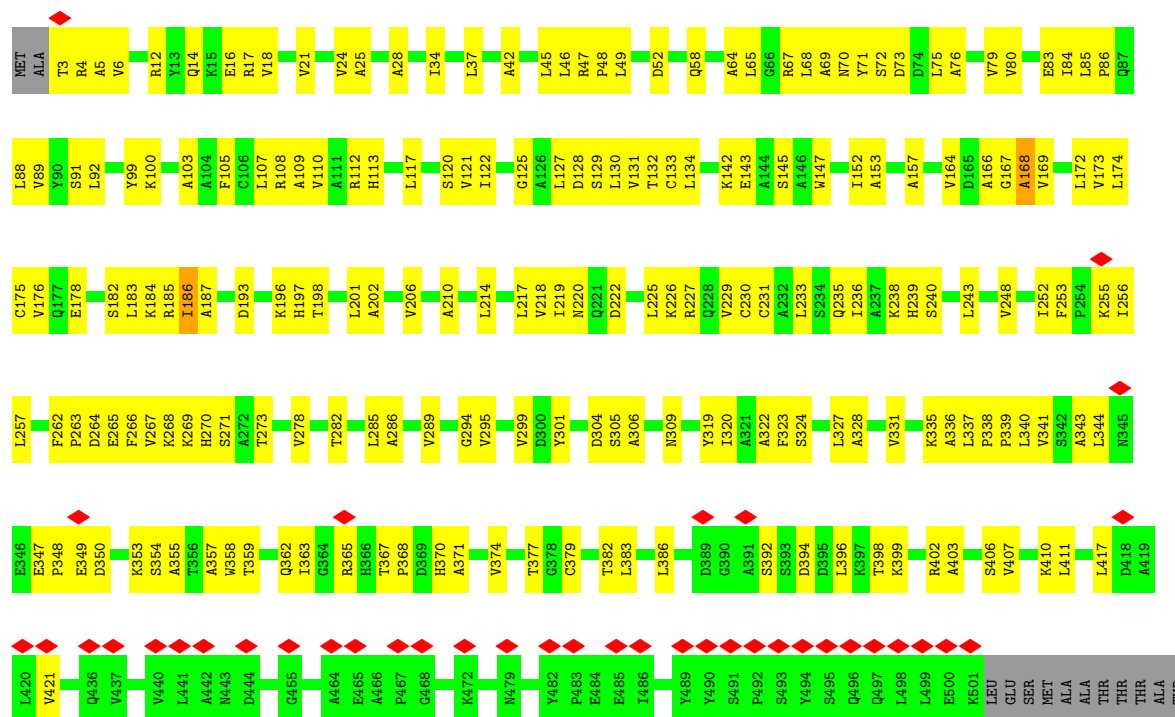
• Molecule 1: PF16

Chain 0V: 6% 61% 37%

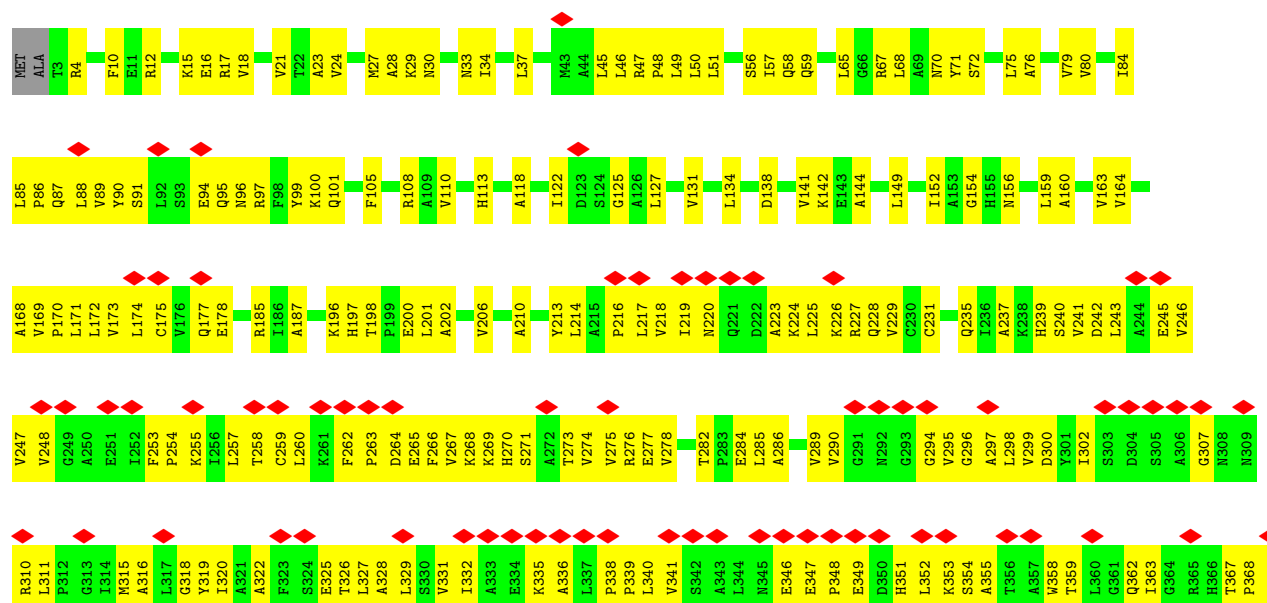


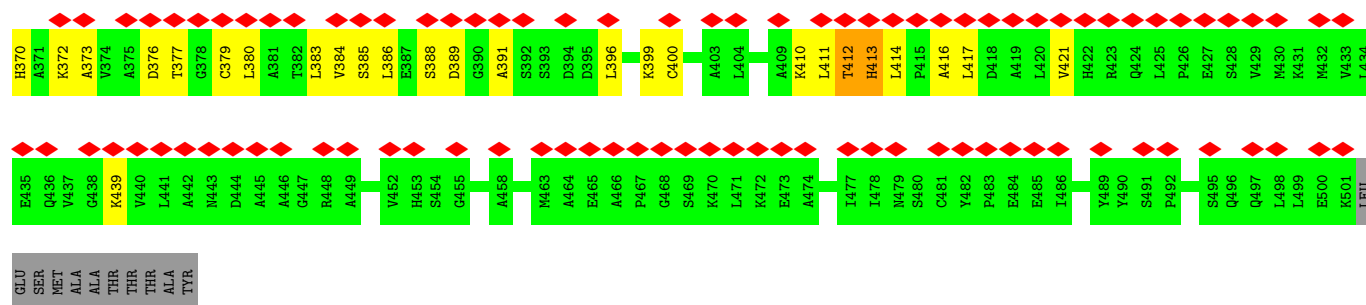


• Molecule 1: PF16

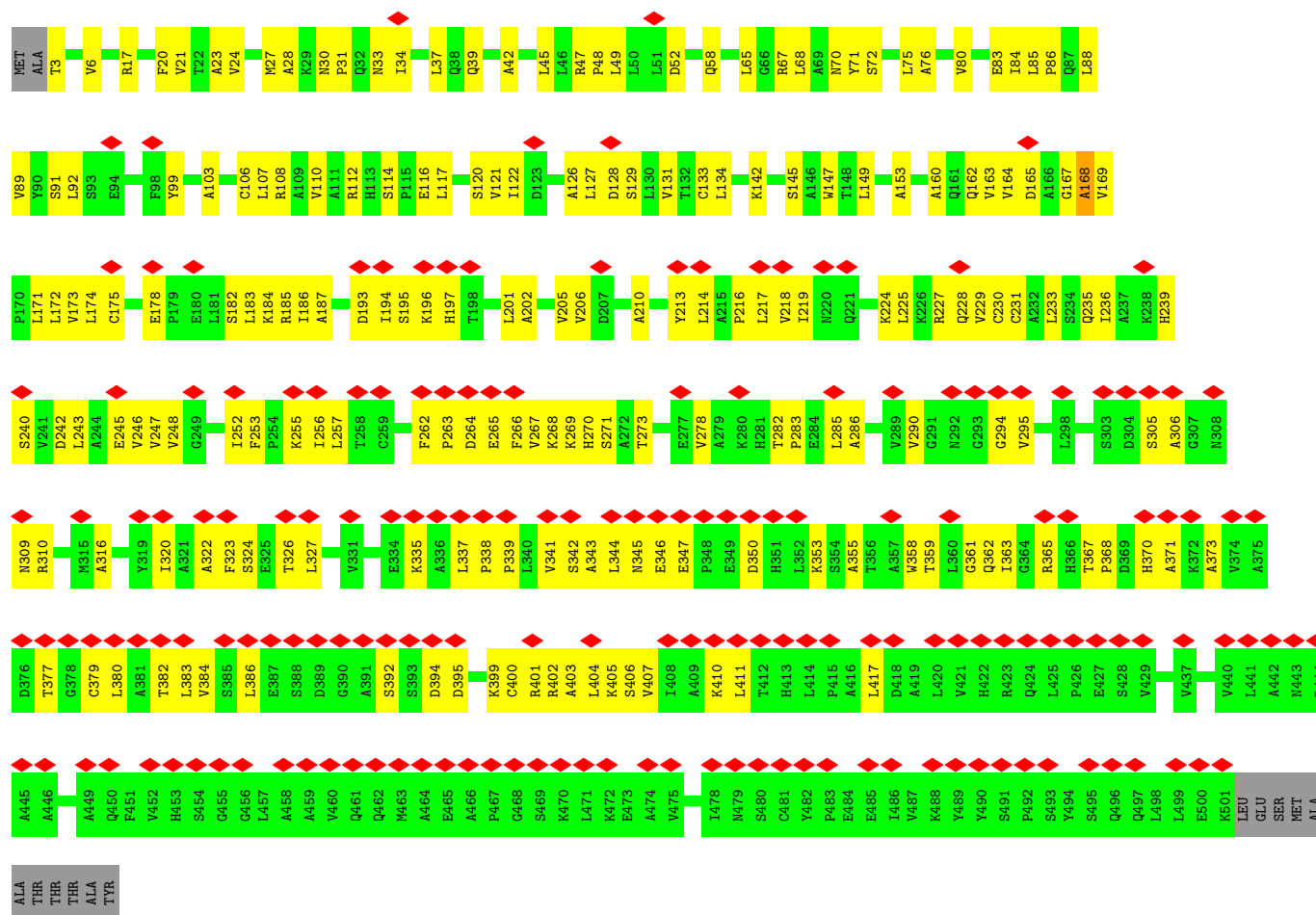


• Molecule 1: PF16

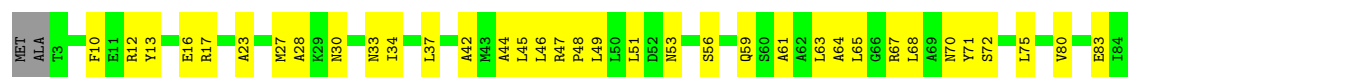


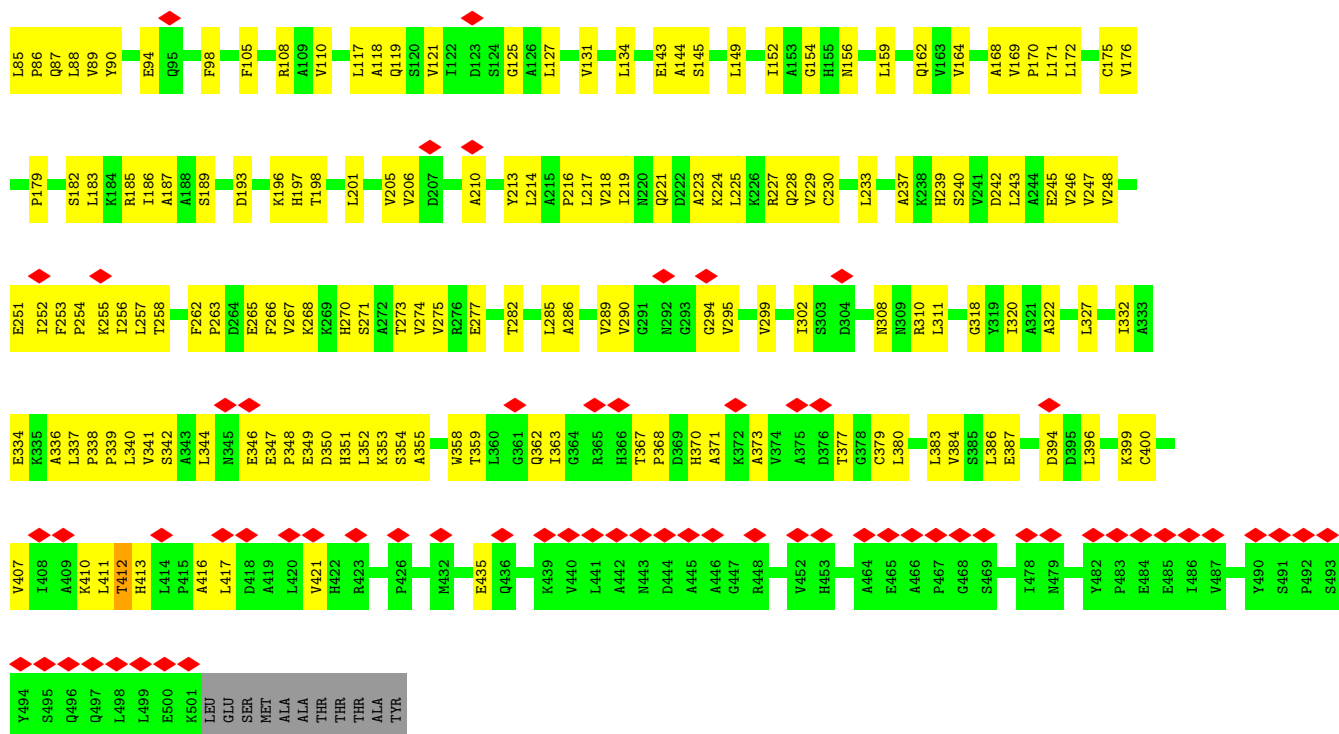


• Molecule 1: PF16

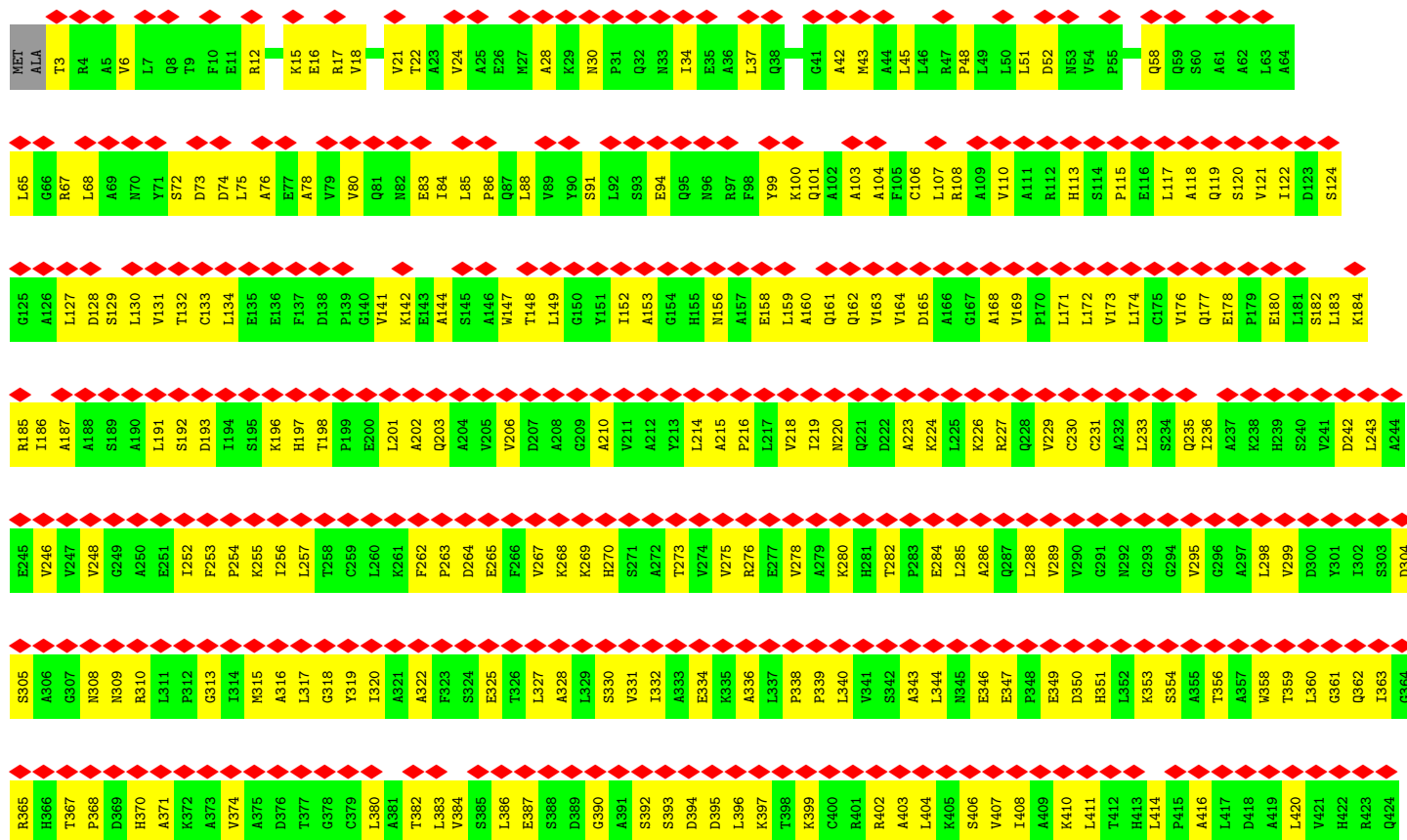
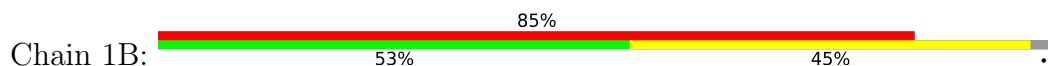


• Molecule 1: PF16



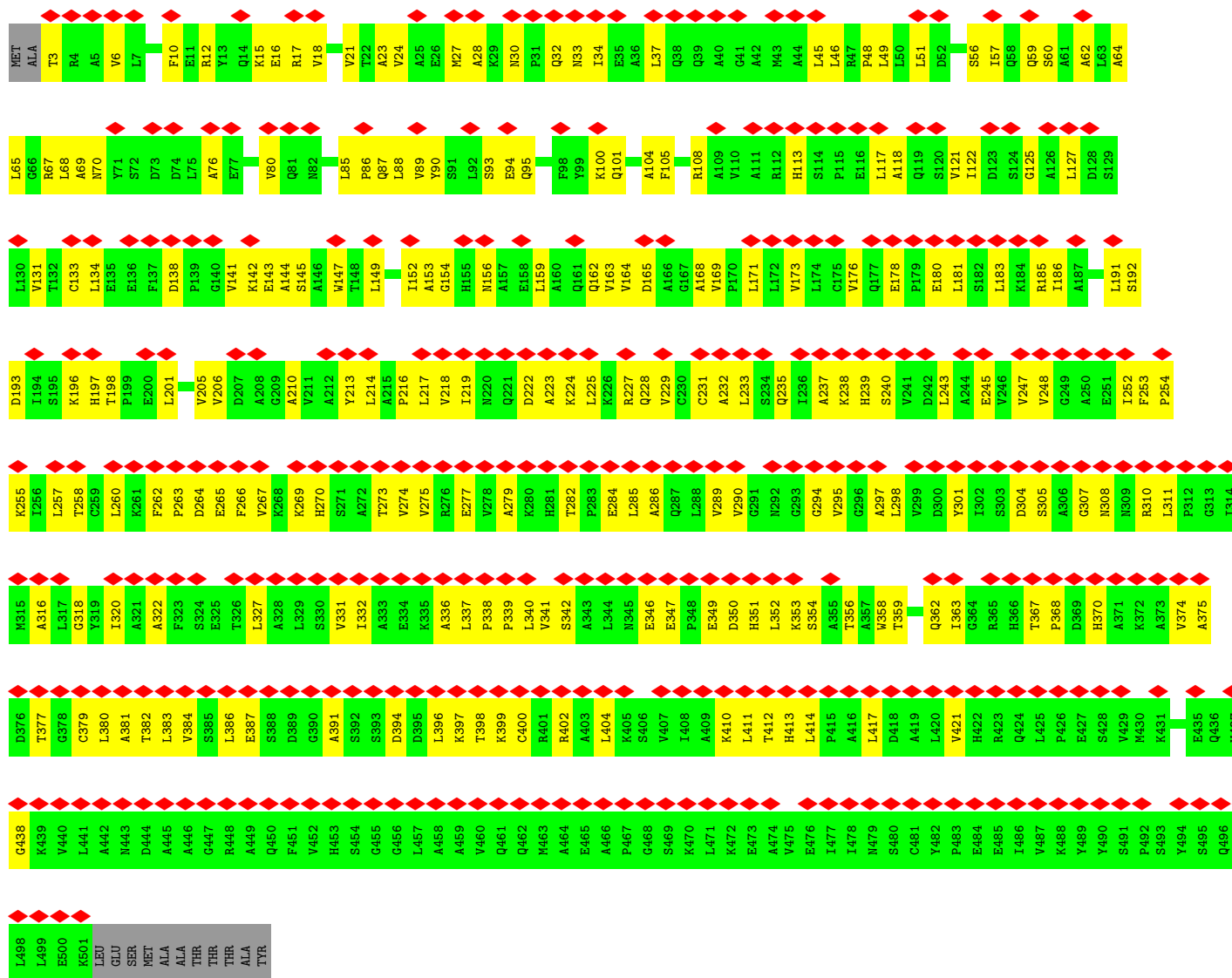


• Molecule 1: PF16

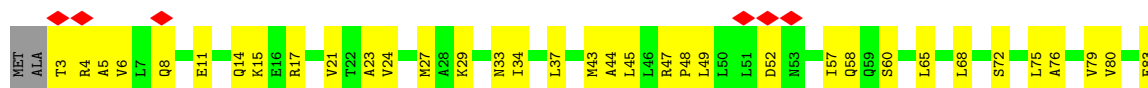


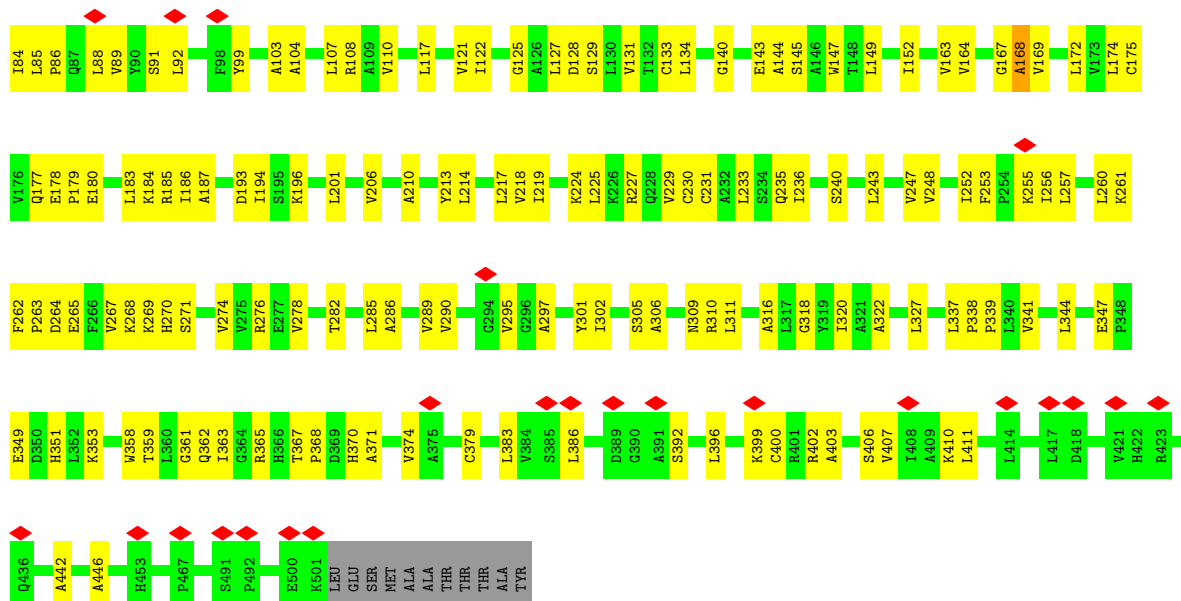


• Molecule 1: PF16

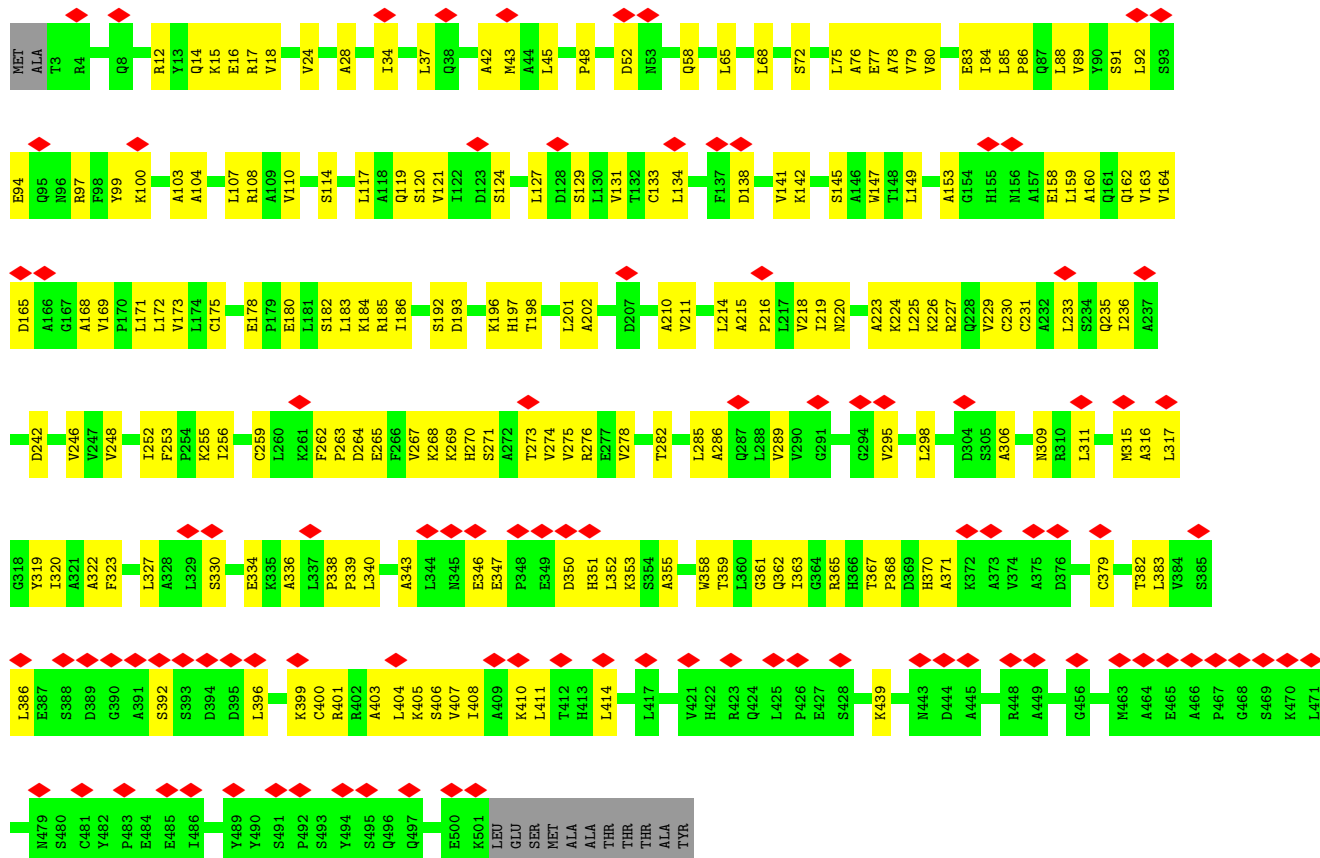


• Molecule 1: PF16



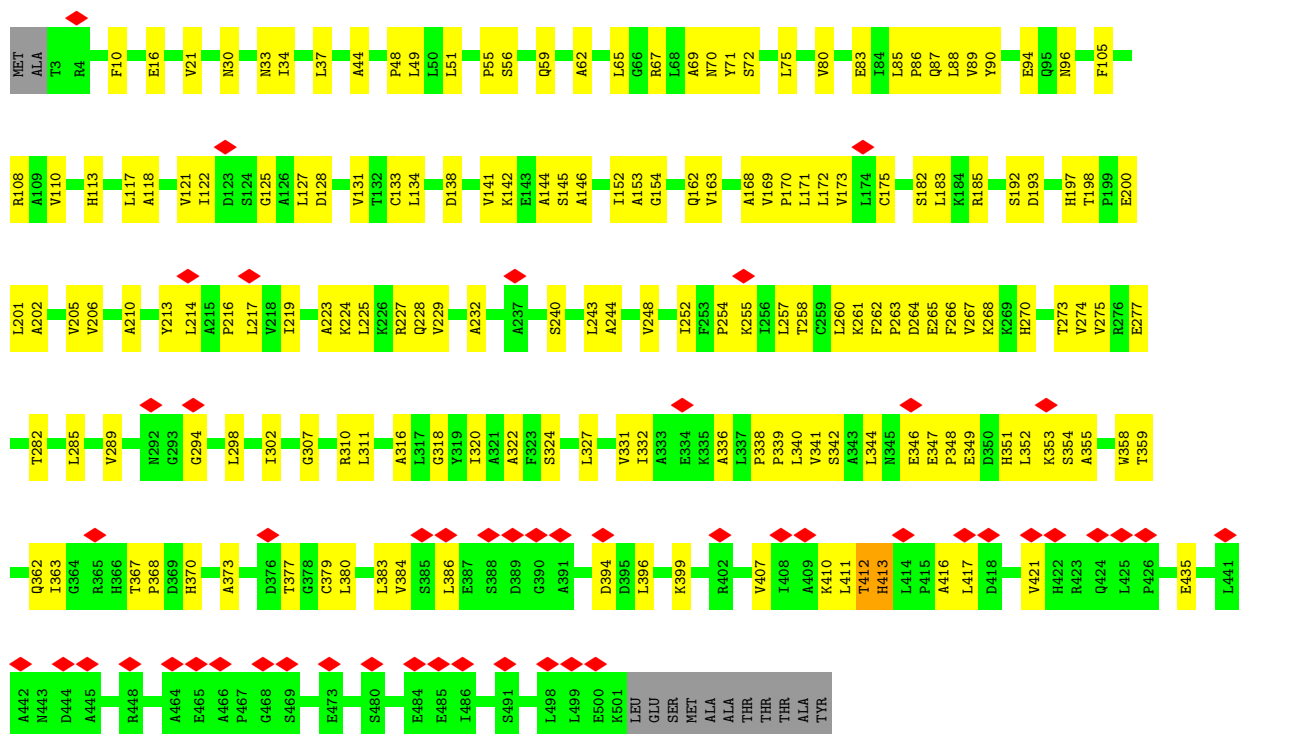


• Molecule 1: PF16

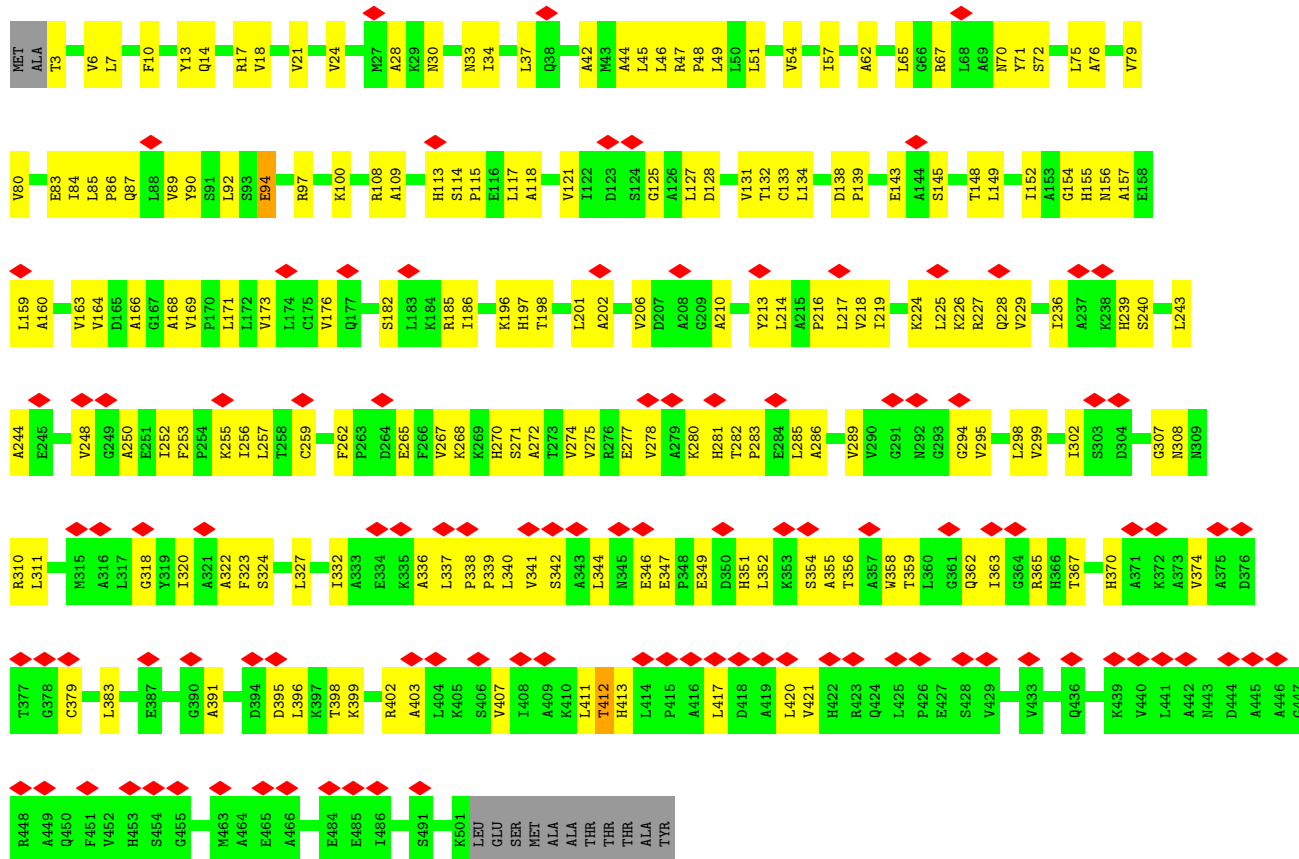


• Molecule 1: PF16

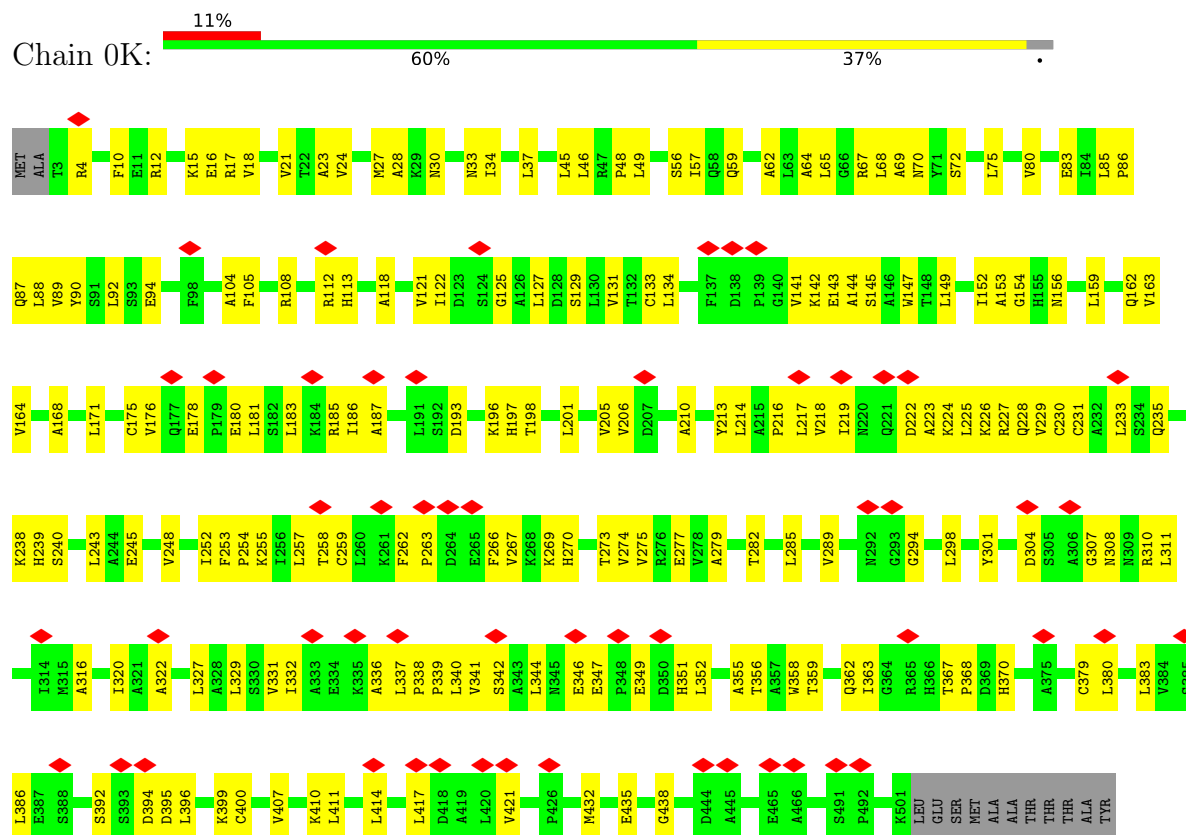




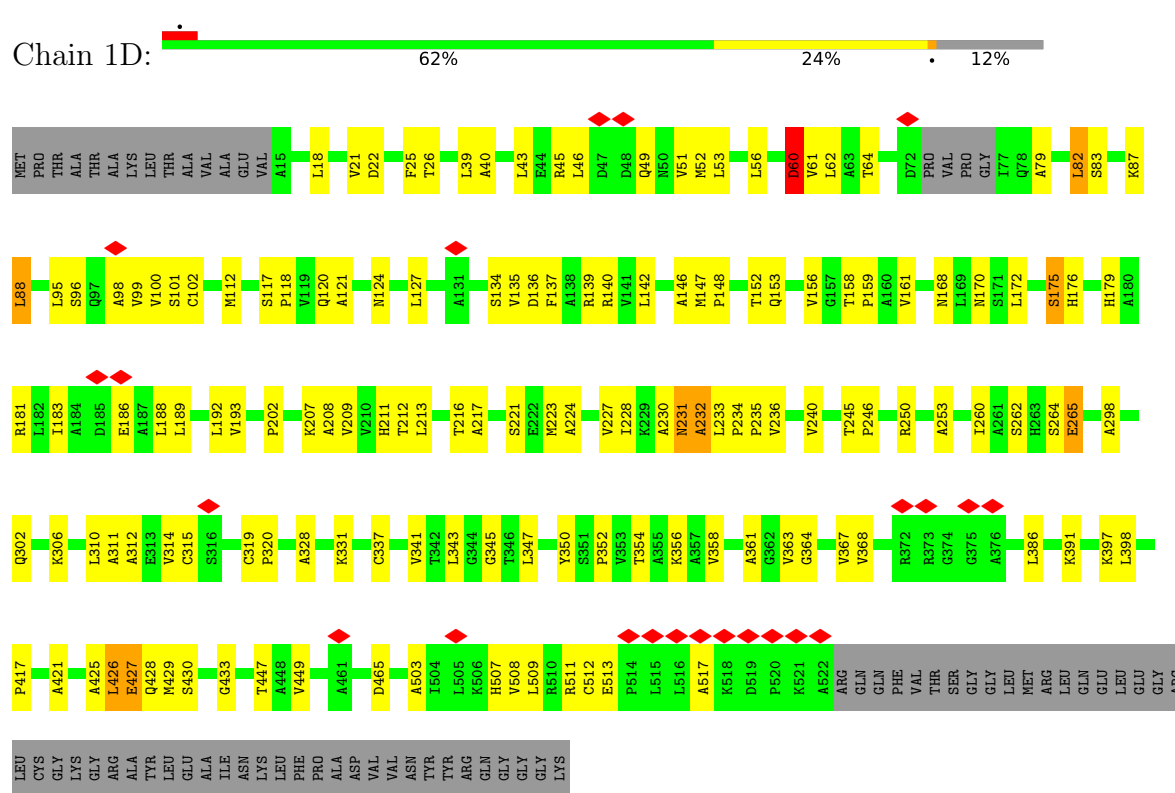
• Molecule 1: PF16



- Molecule 1: PF16

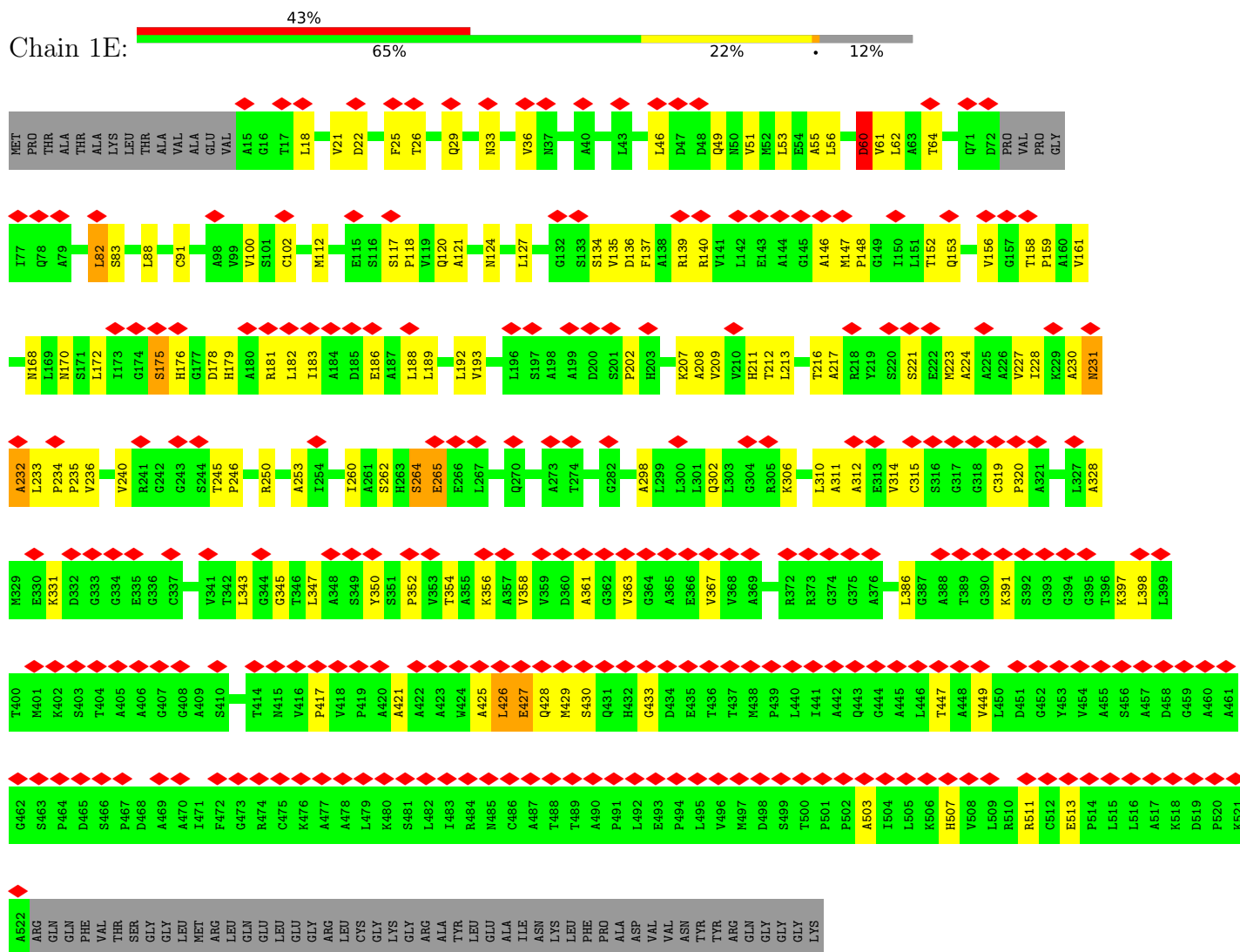


- Molecule 2: FAP194



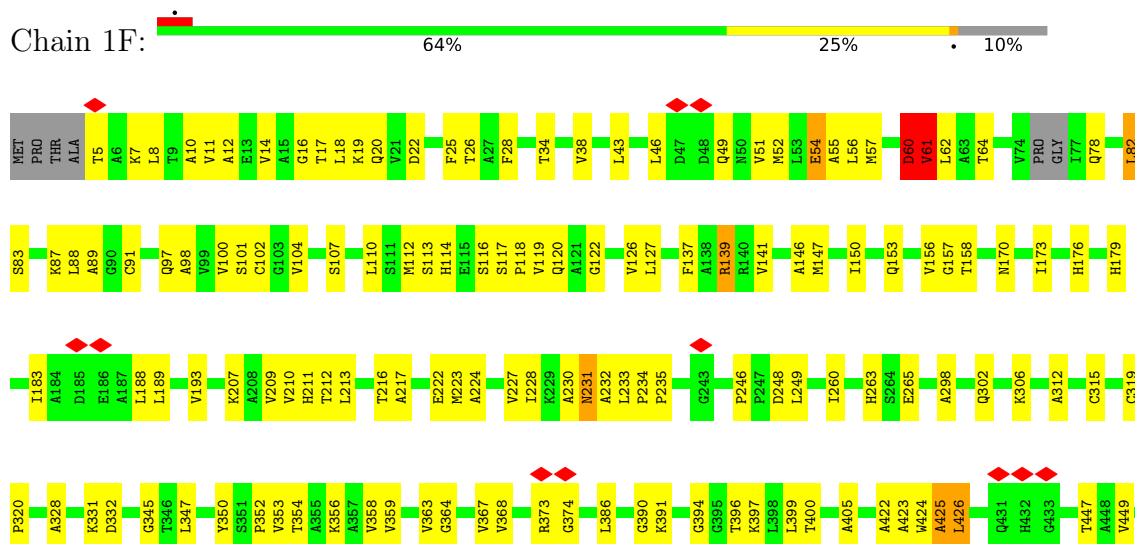
- Molecule 2: FAP194

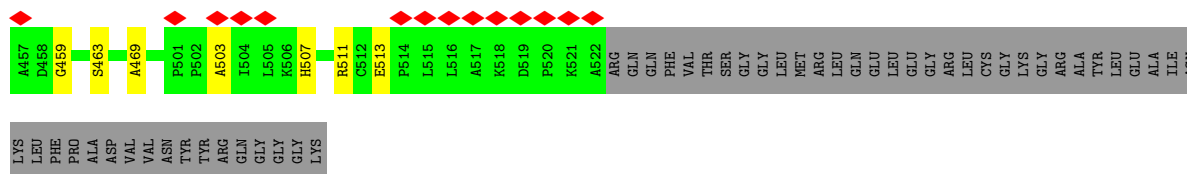
Chain 1E:



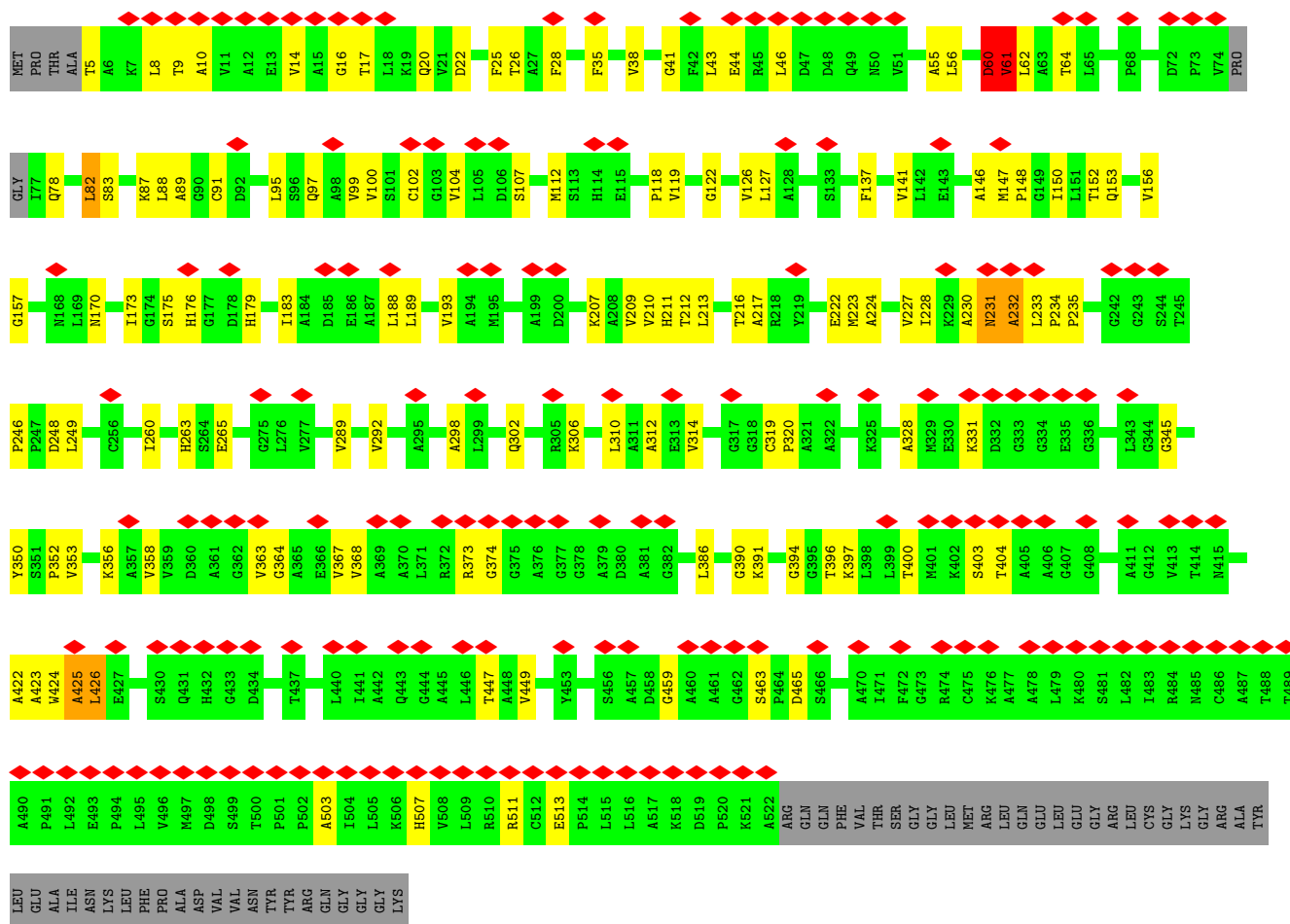
- Molecule 2: FAP194

Chain 1F:

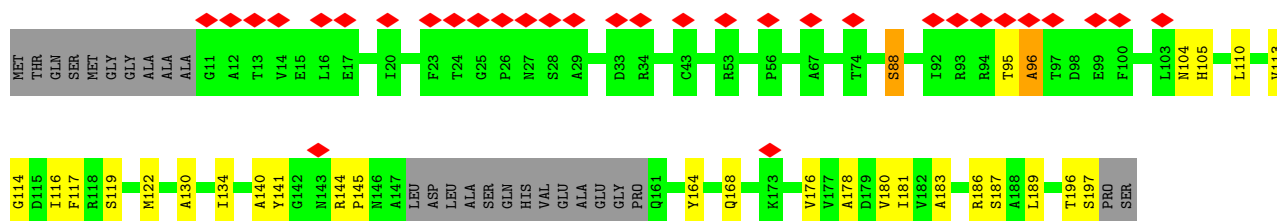




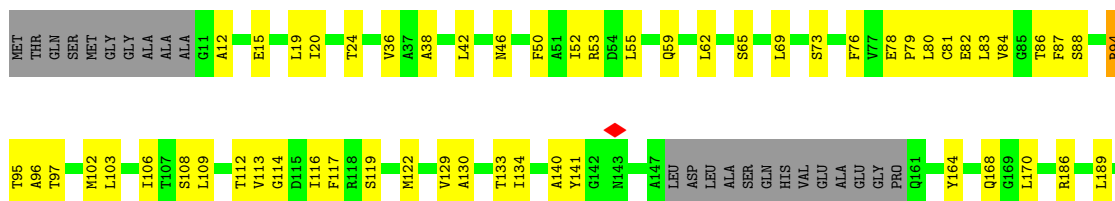
• Molecule 2: FAP194

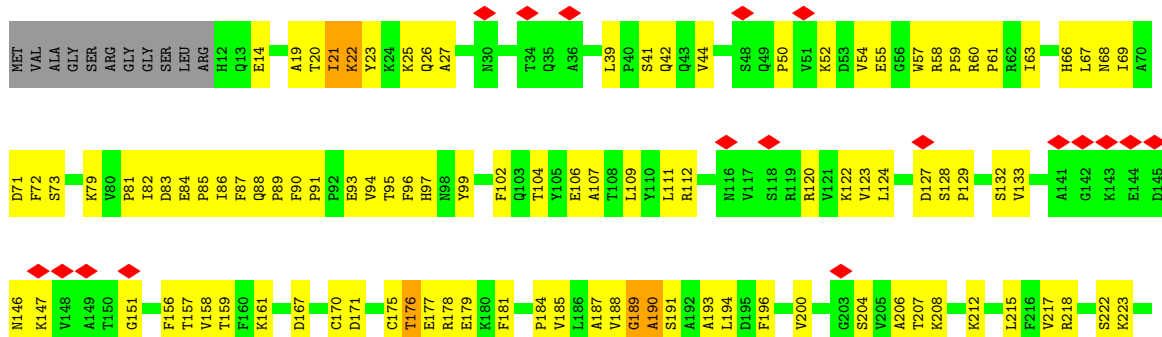


• Molecule 3: FAP69



- Molecule 3: FAP69







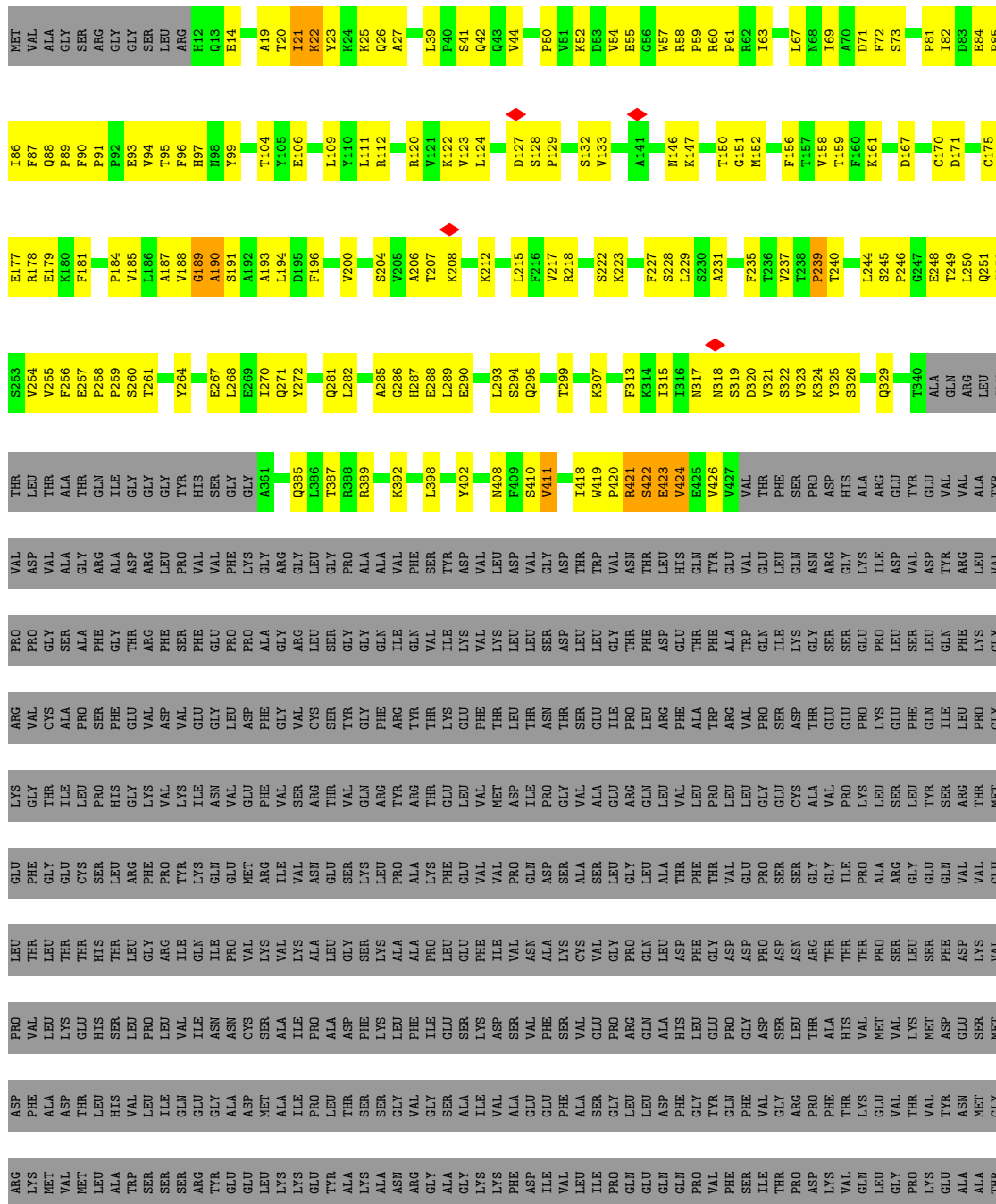




ASN
LEU
LEU
CYS
THR
VAL
LYS
ASN

- Molecule 4: HYDIN

Chain 1K: 6% . 90%

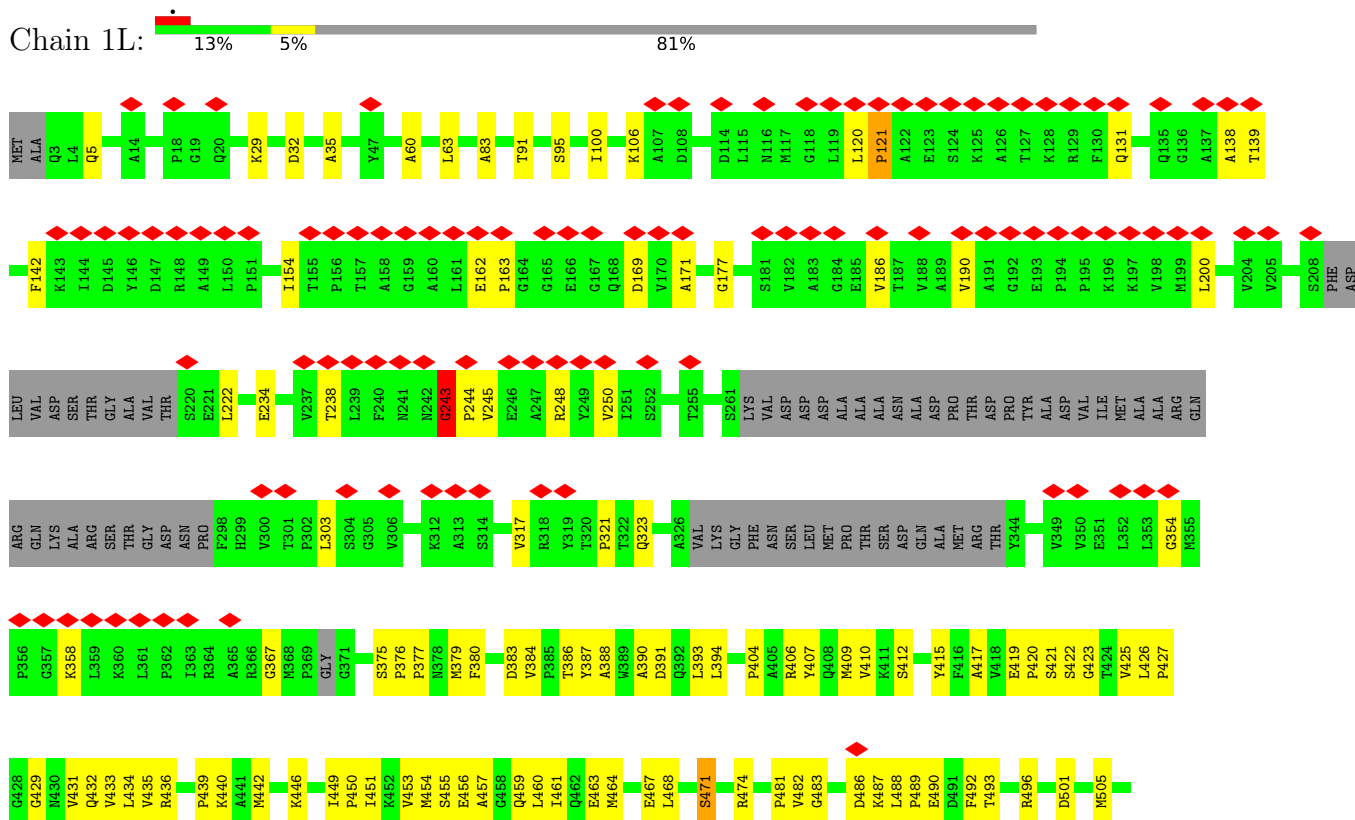






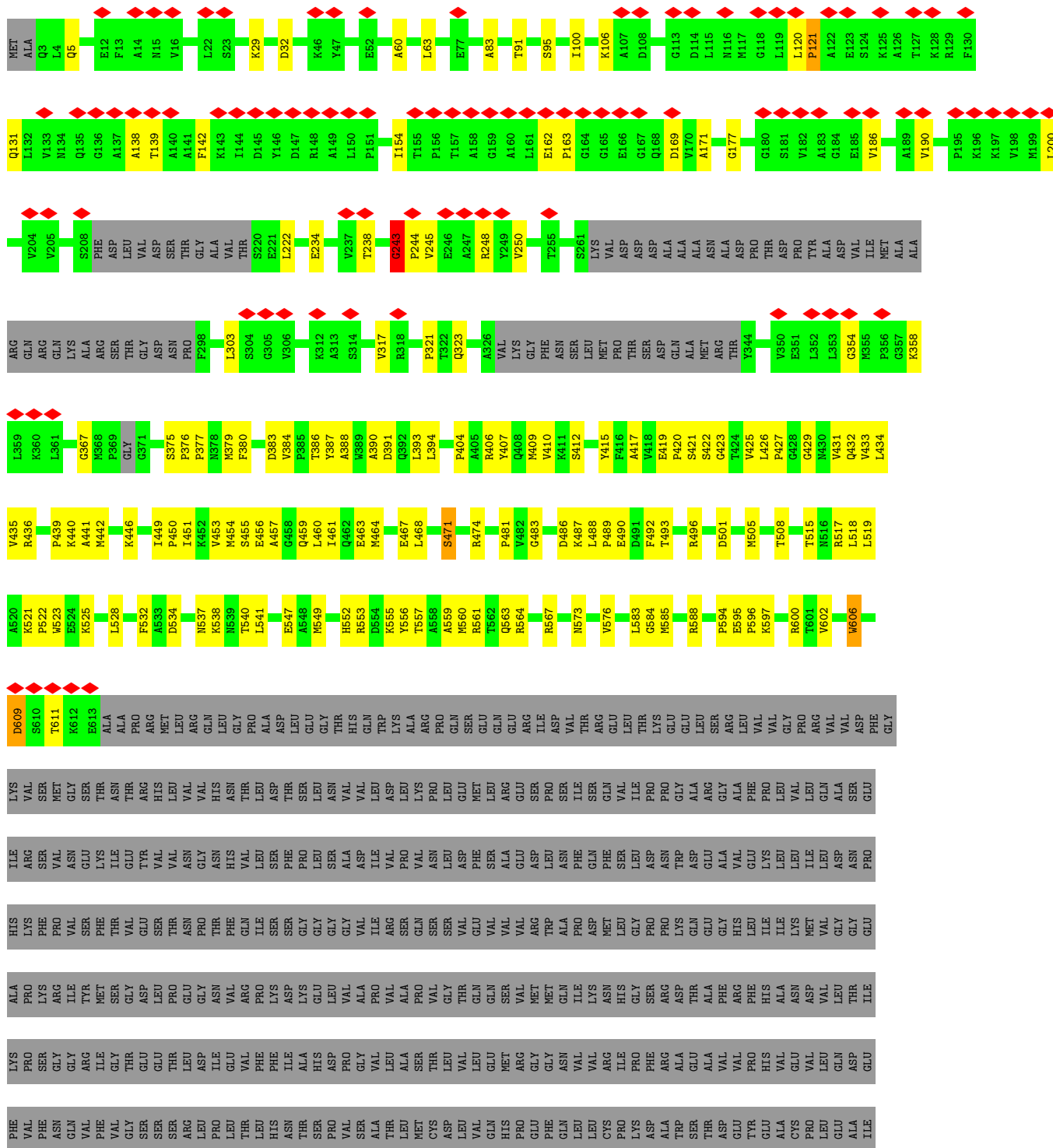
[illegible]

- Molecule 5: FAP47





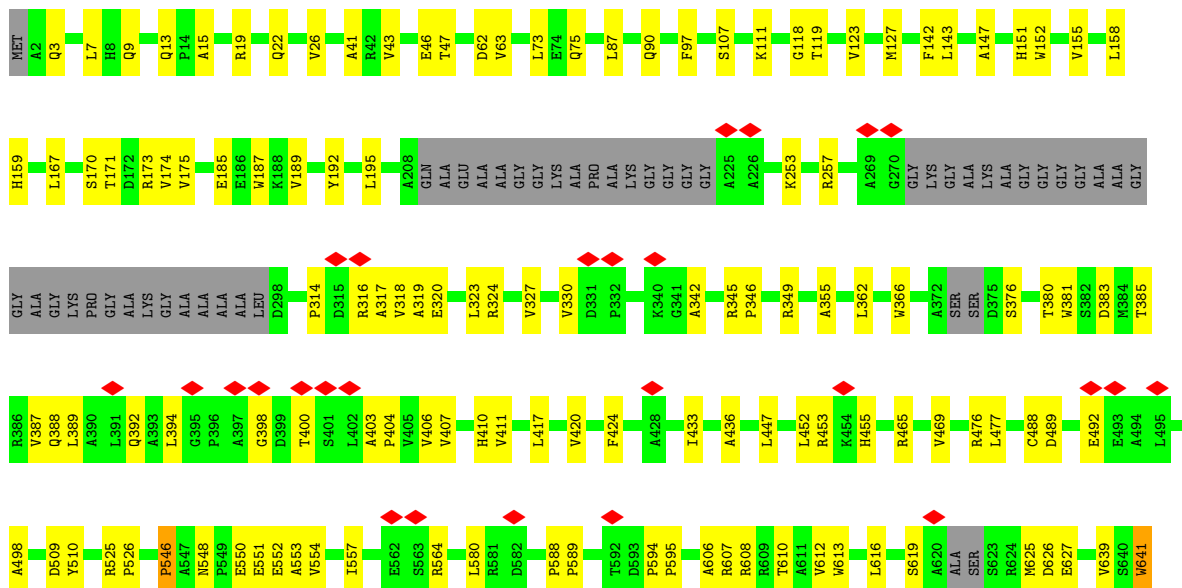


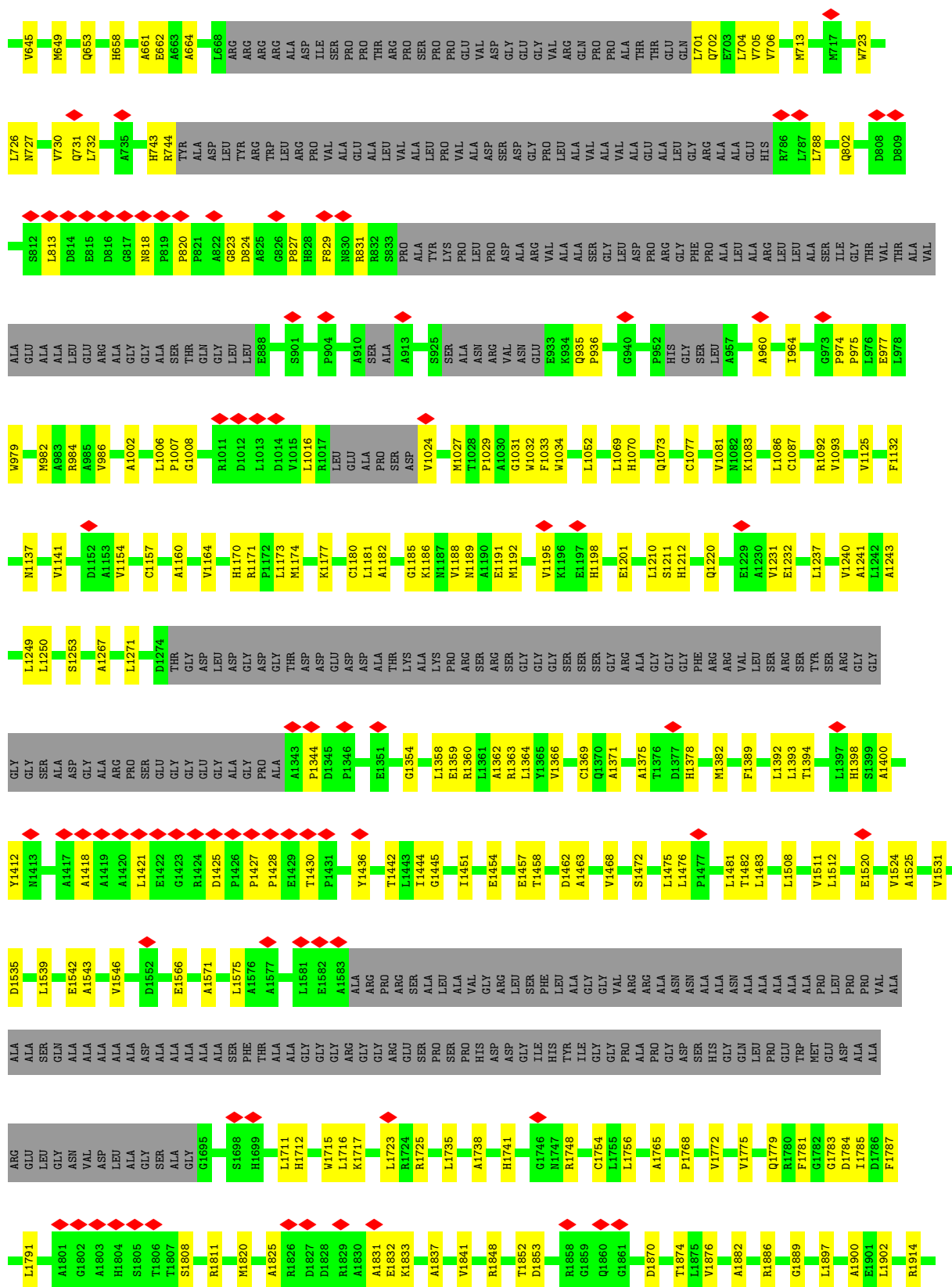


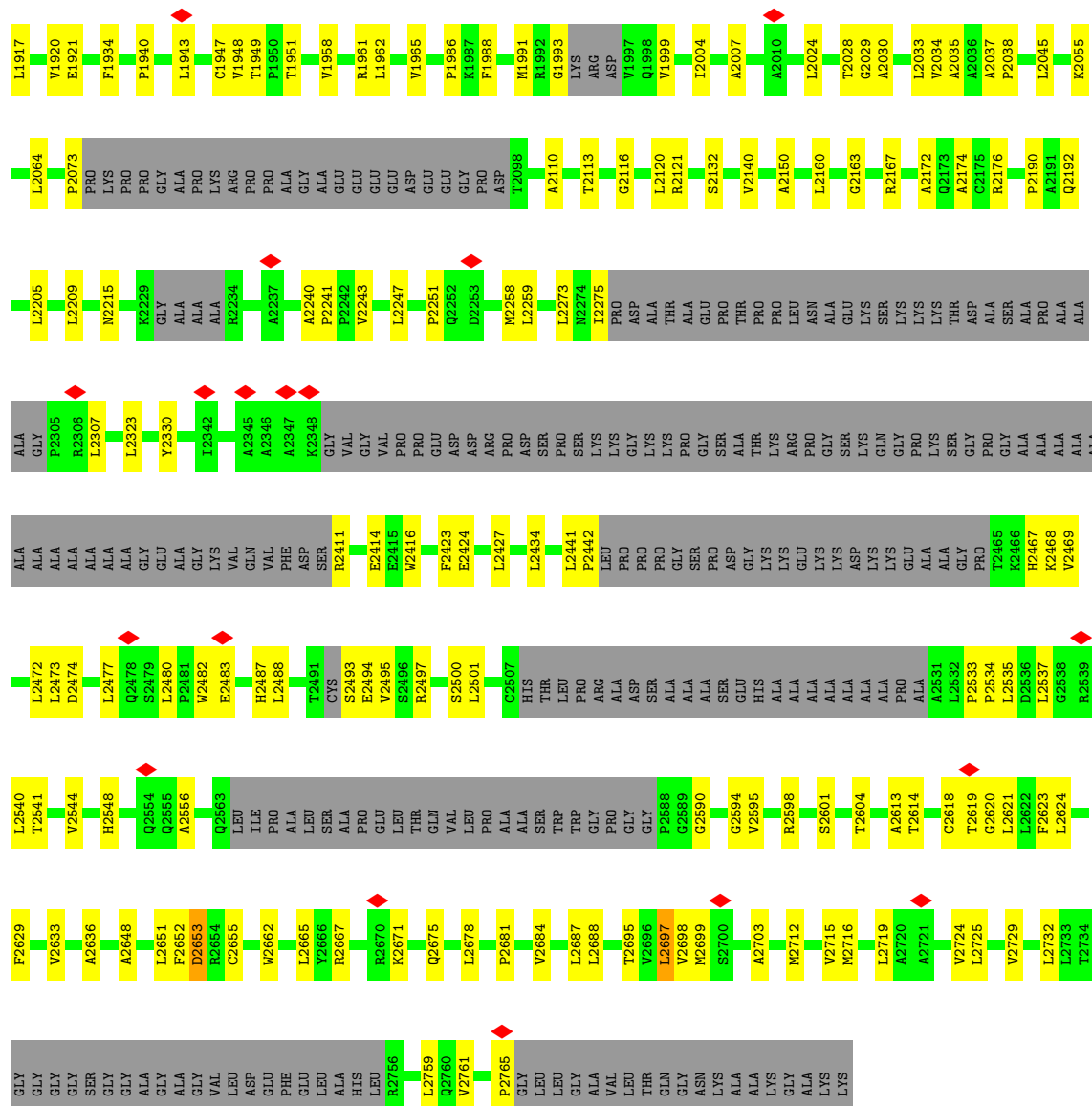


[illegible]

- Molecule 6: FAP46

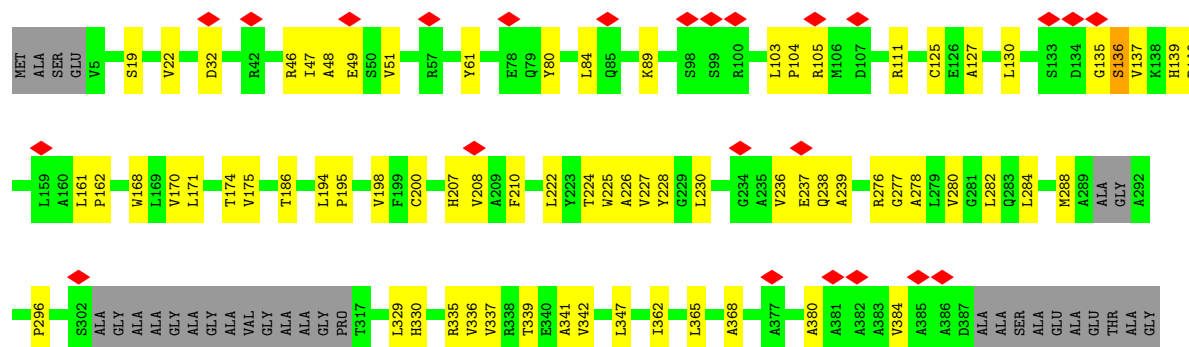






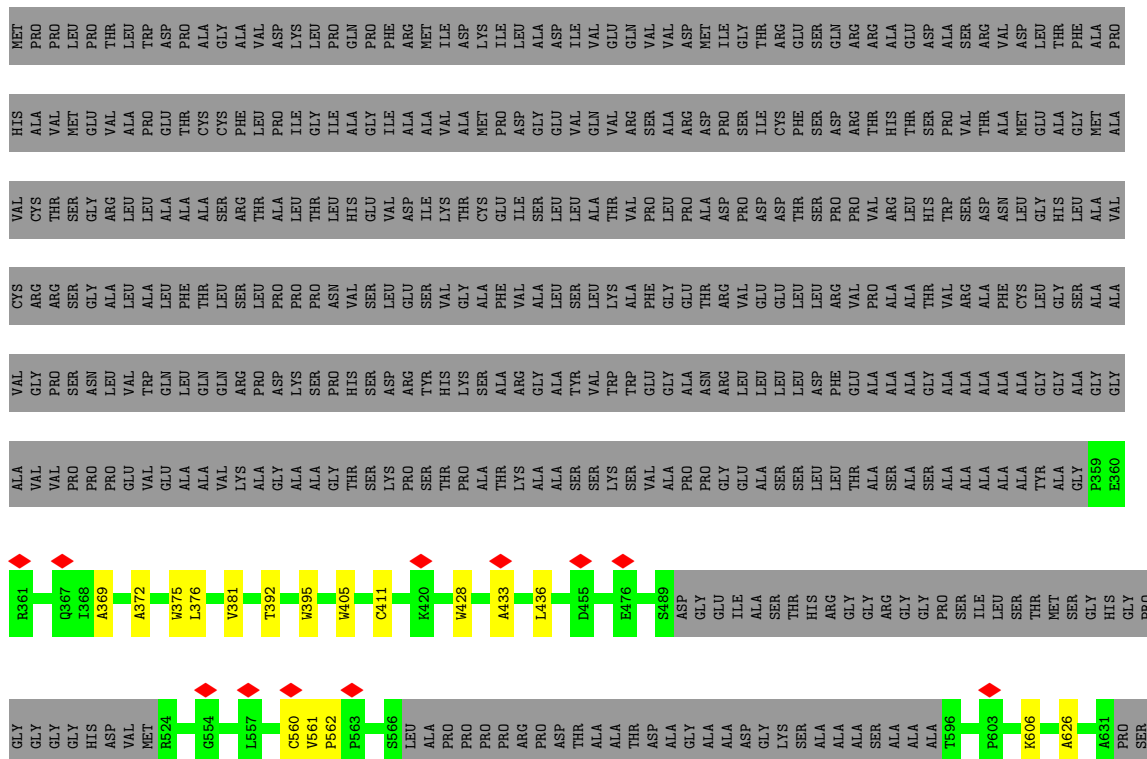
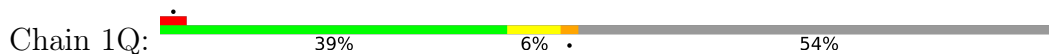
• Molecule 7: FAP54

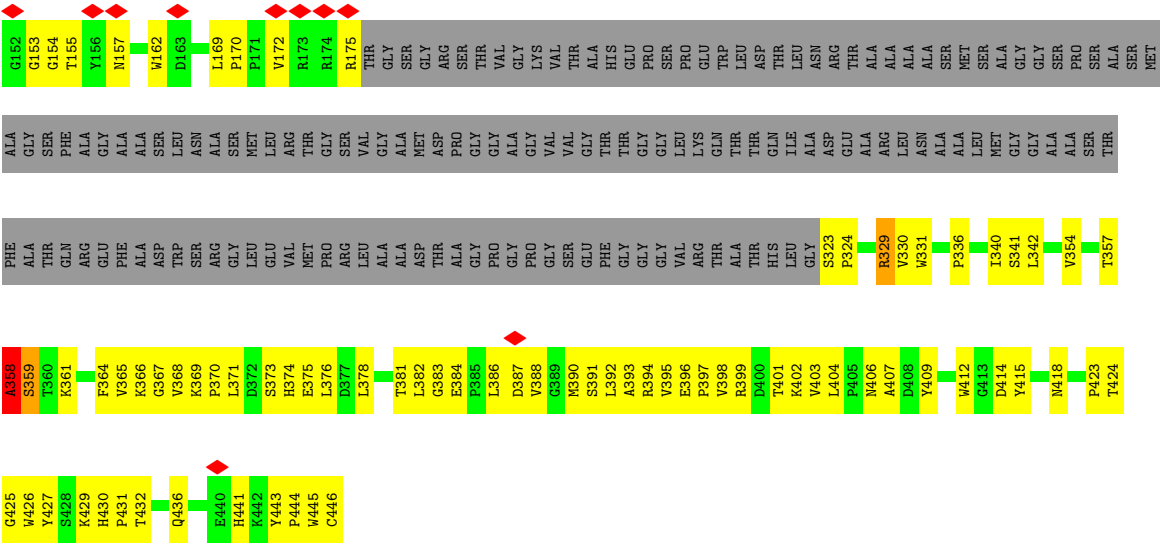
Chain 10: 68% 14% 18%



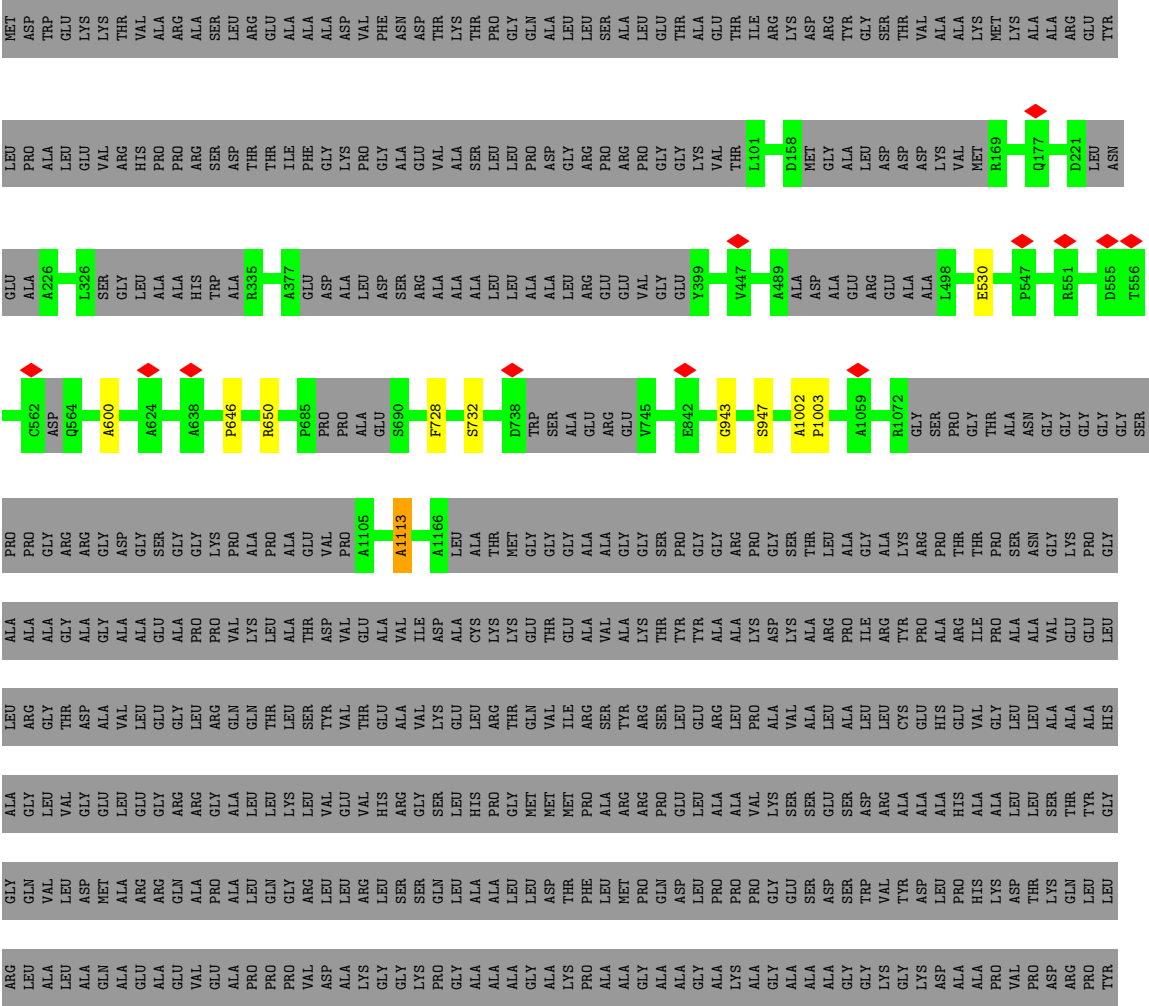


- Molecule 9: FAP297



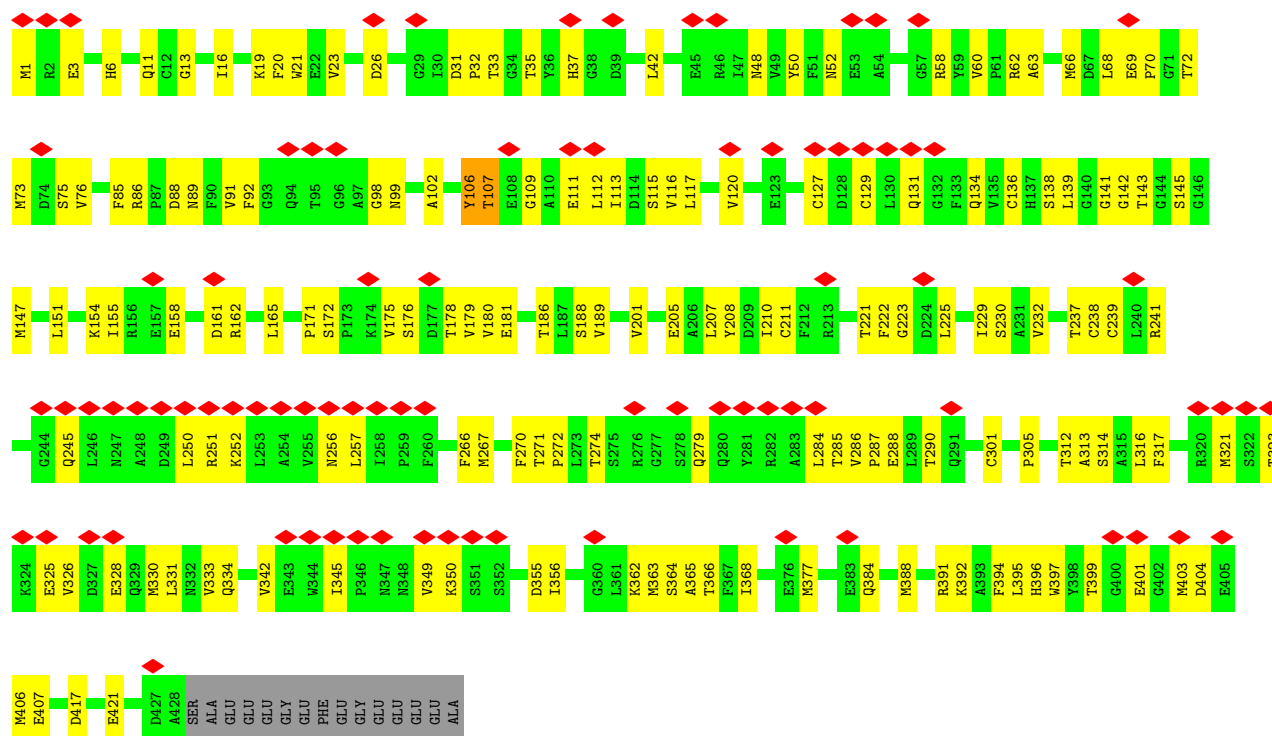


● Molecule 11: FAP76

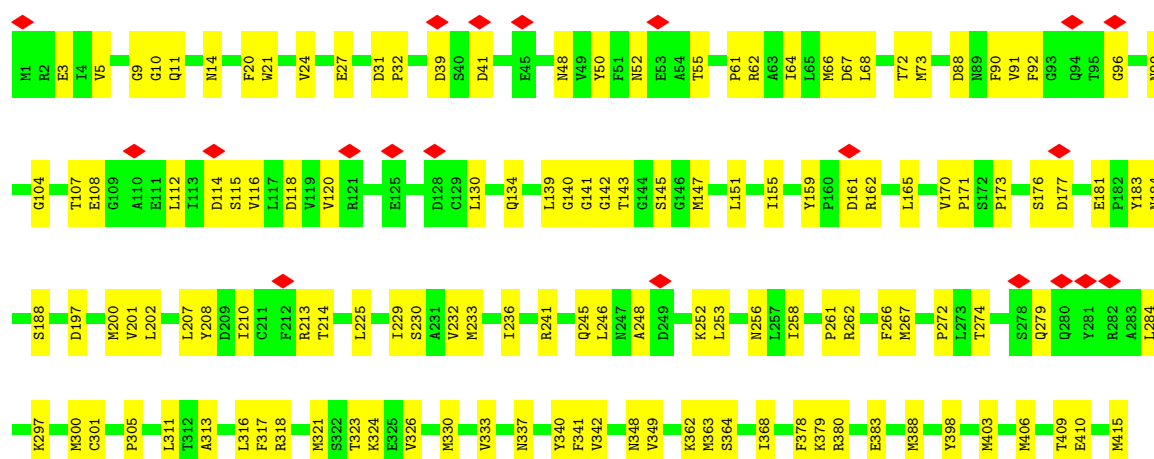


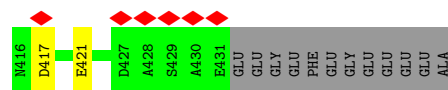
SER	PRO	GLY	TRP	ALA	LEU	PRO	ALA	GLY	ASN	PHE	ASP	LEU	VAL	SER	LEU	GLY	TRP	LEU	ASP	GLU	GLY	GLY	LYS	PRO	PRO	HIS	ARG	GLY	LEU	LEU	PRO	GLN	ALA	PRO	GLN	GLN	VAL	ARG	VAL	LEU	GLU	ALA	ALA	ALA	LYS	PRO	THR	LYS	ALA	SER	LYS	PRO	ALA	PRO	GLY	GLY	LYS	ARG	PRO	ALA	SER	LYS	ALA	ASP	GLY	PRO	GLU	GLU																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
GLY	ALA	PRO	GLY	ARG	THR	PRO	ALA	VAL	VAL	PRO	ALA	PRO	LEU	VAL	VAL	ALA	LEU	ASP	THR	CYS	HIS	ARG	CYS	VAL	VAL	VAL	ARG	ALA	ALA	TYR	ARG	SER	ALA	ALA	VAL	GLN	ARG	GLN	LEU	GLU	GLU	ALA	SER	ALA	ALA	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY</

• Molecule 12: Tubulin beta

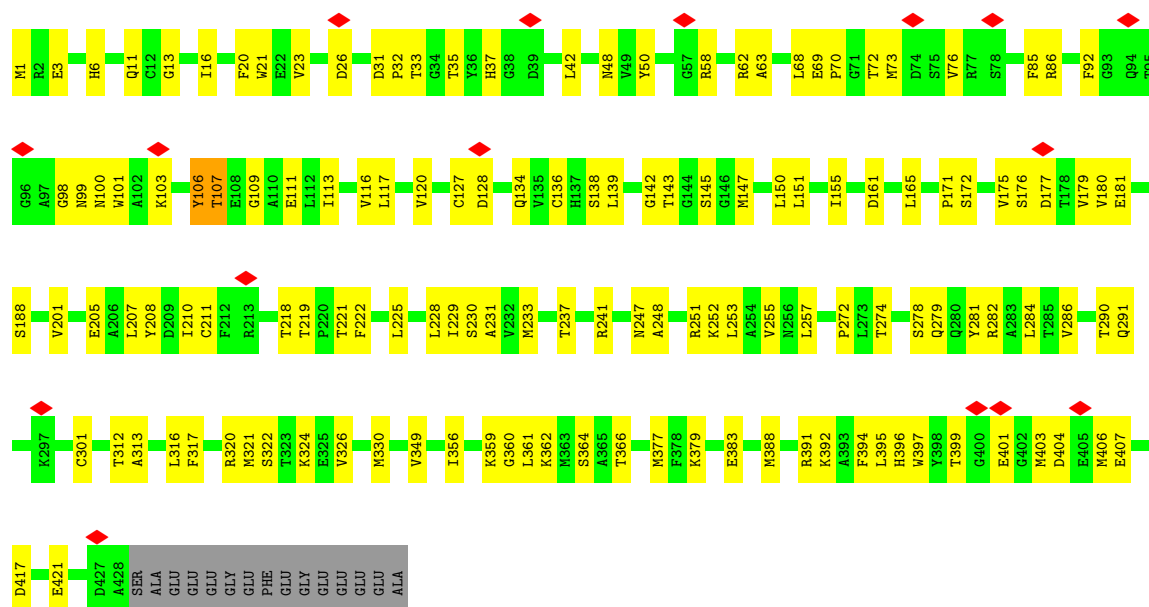


• Molecule 12: Tubulin beta

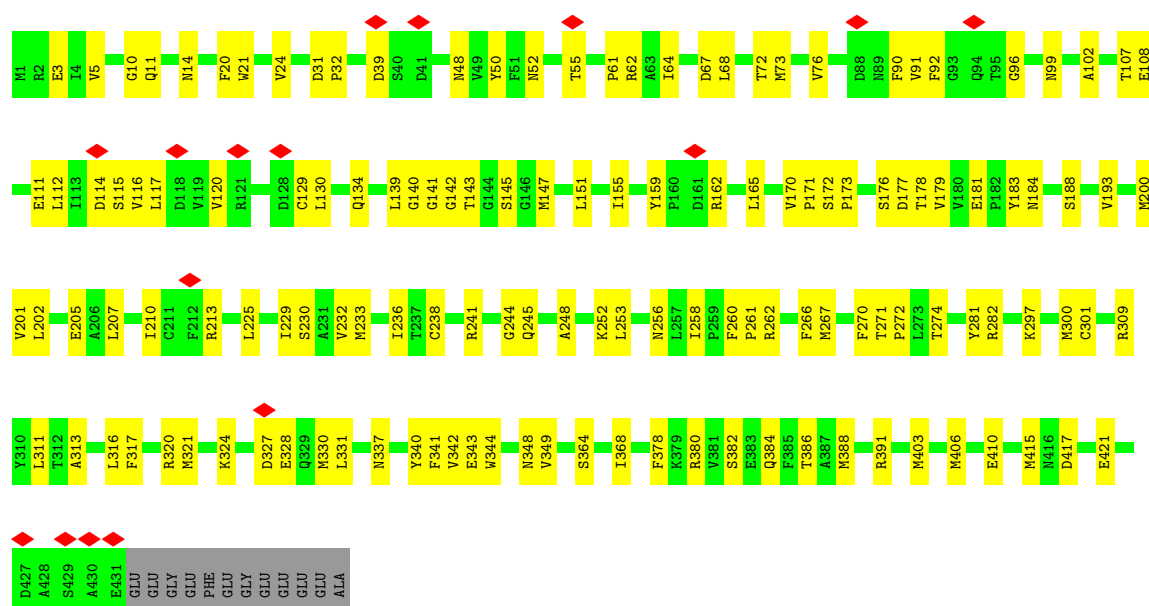




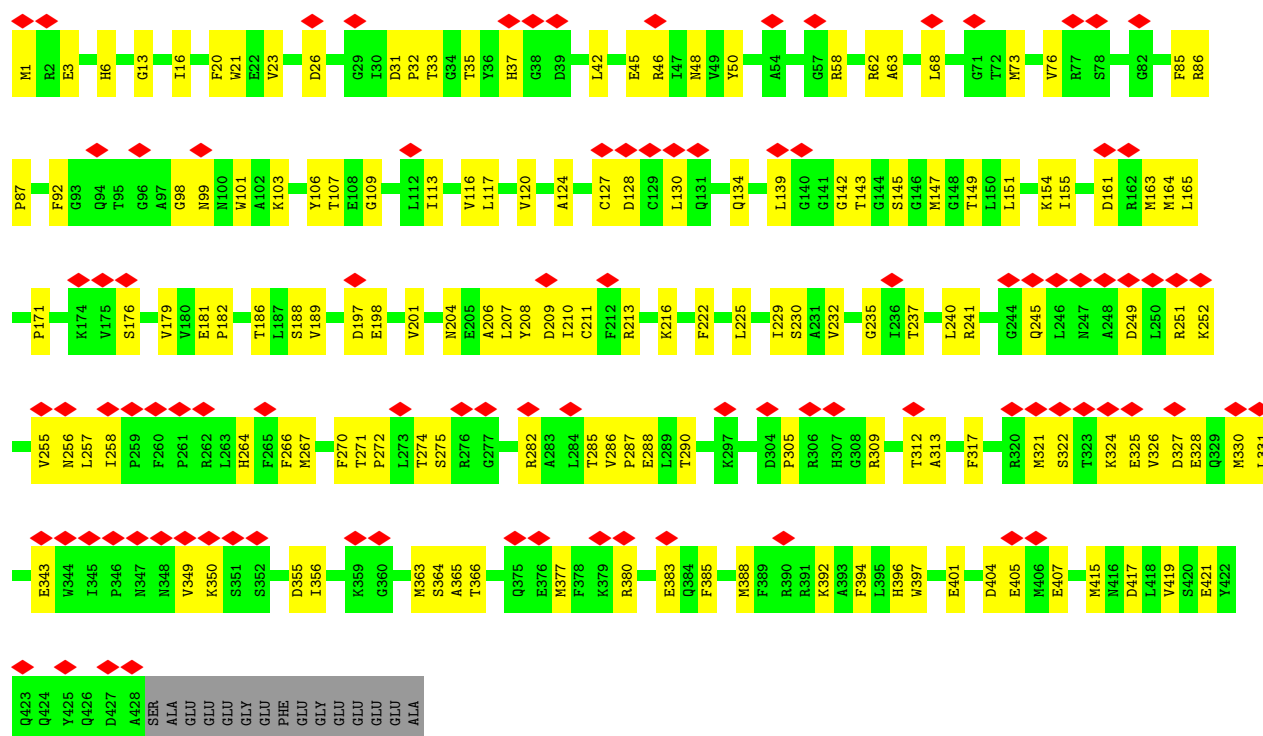
- Molecule 12: Tubulin beta



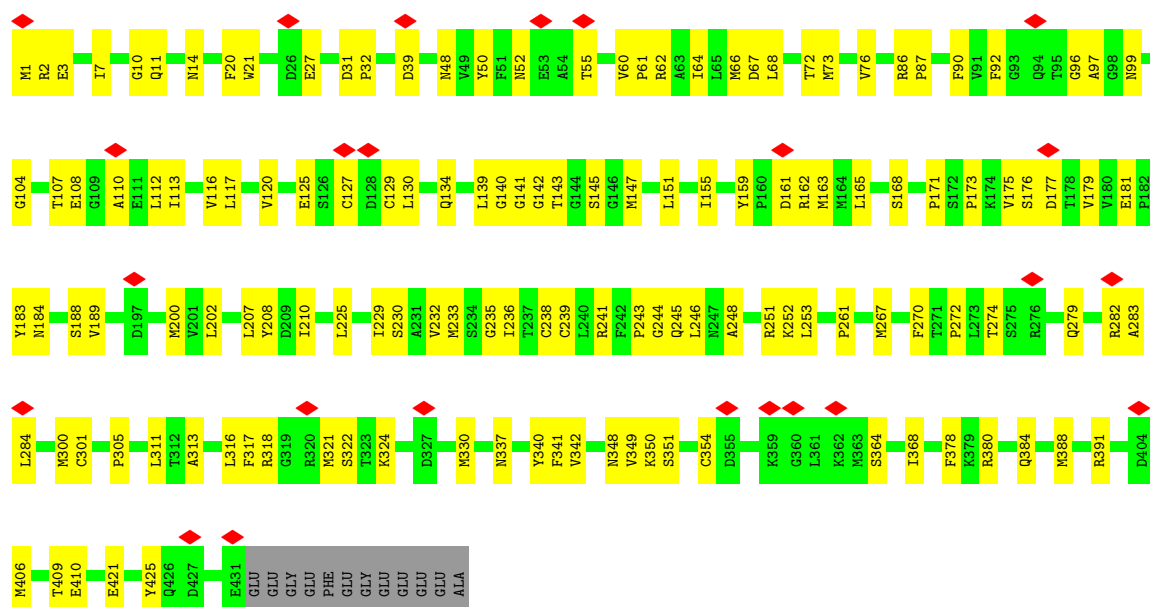
- Molecule 12: Tubulin beta



- Molecule 12: Tubulin beta

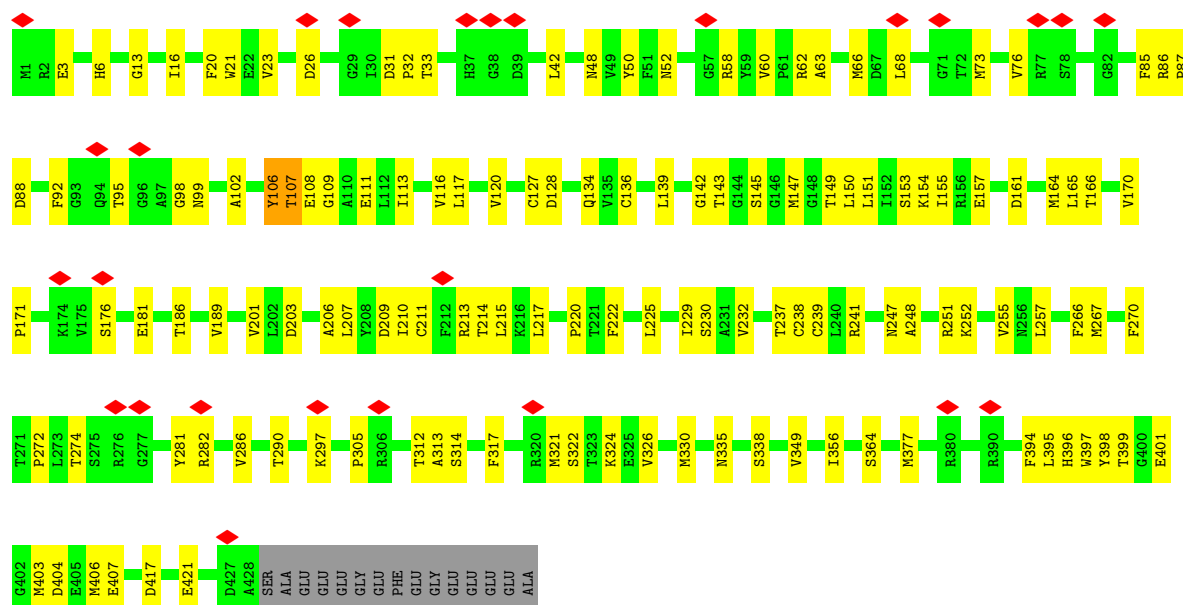


• Molecule 12: Tubulin beta

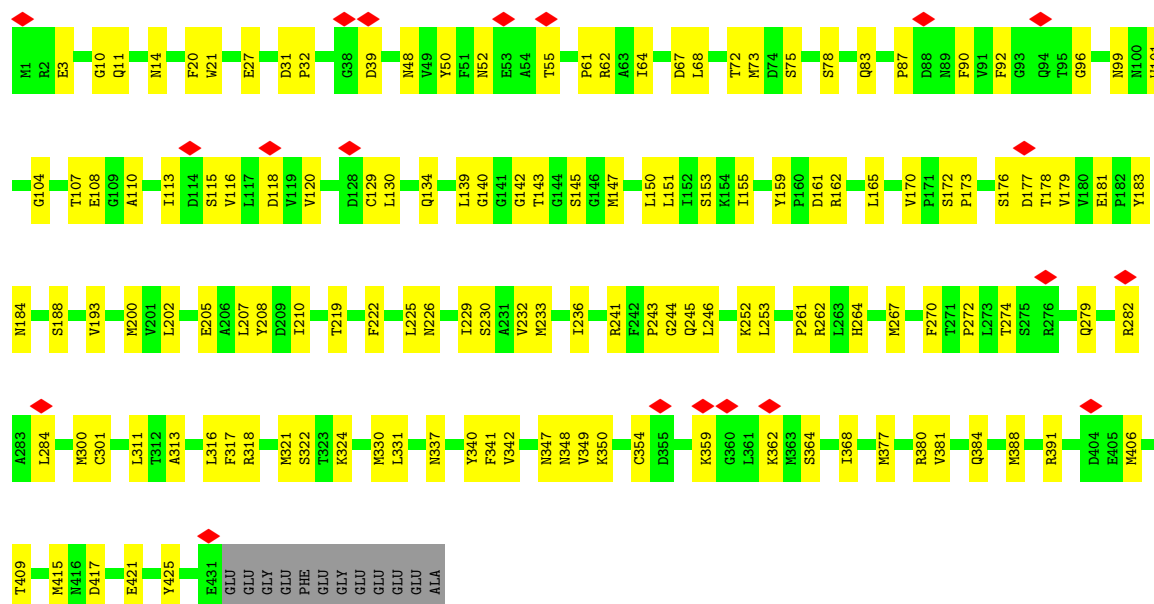


• Molecule 12: Tubulin beta

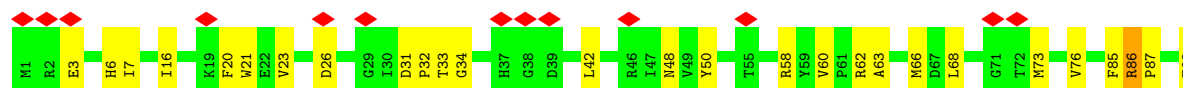


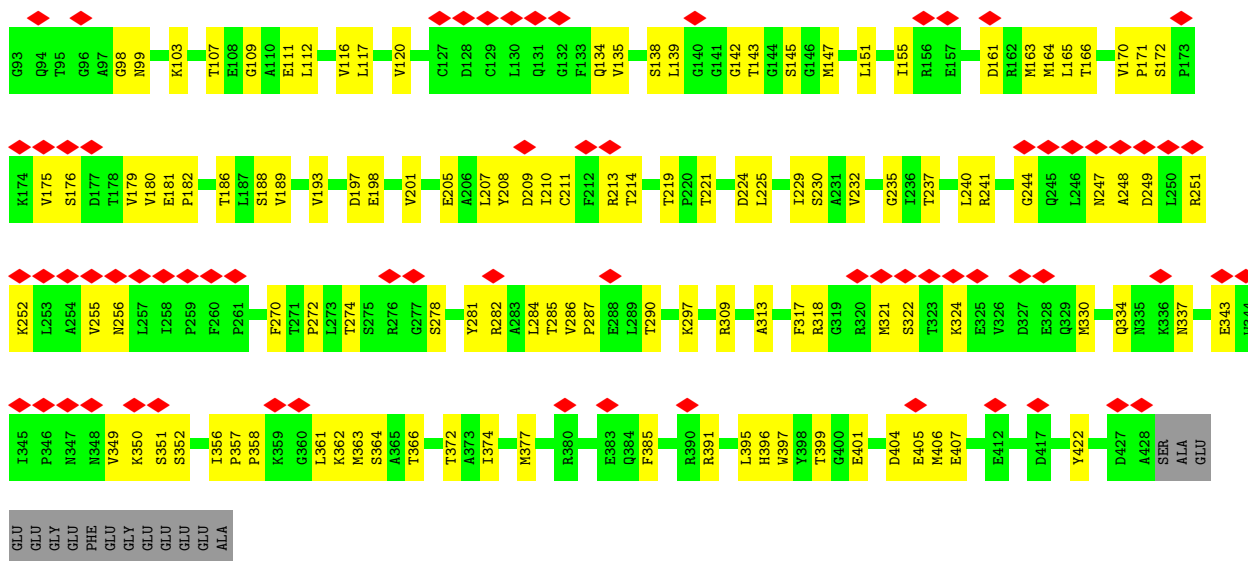


• Molecule 12: Tubulin beta



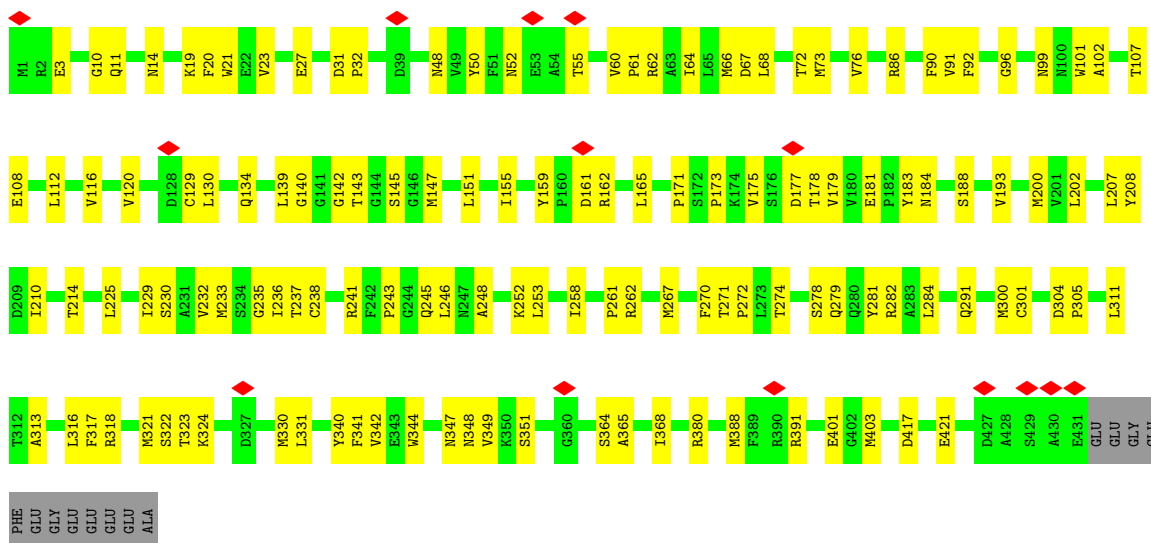
• Molecule 12: Tubulin beta





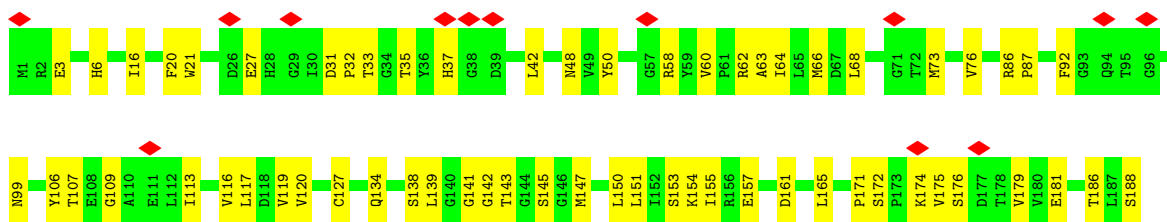
• Molecule 12: Tubulin beta

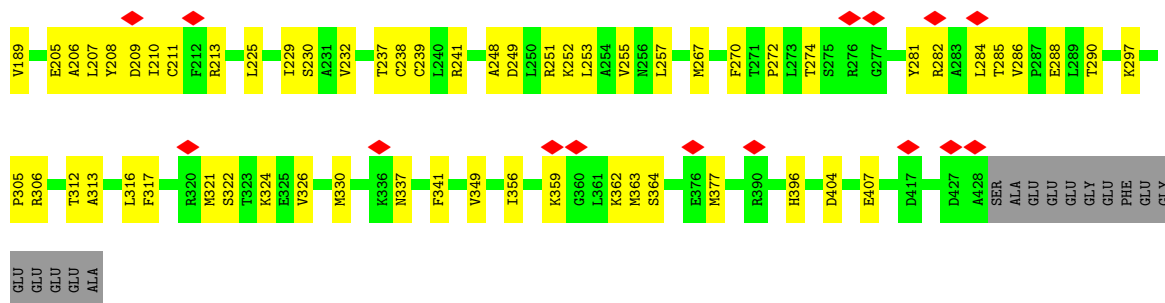
Chain 3c: 67% 30% .



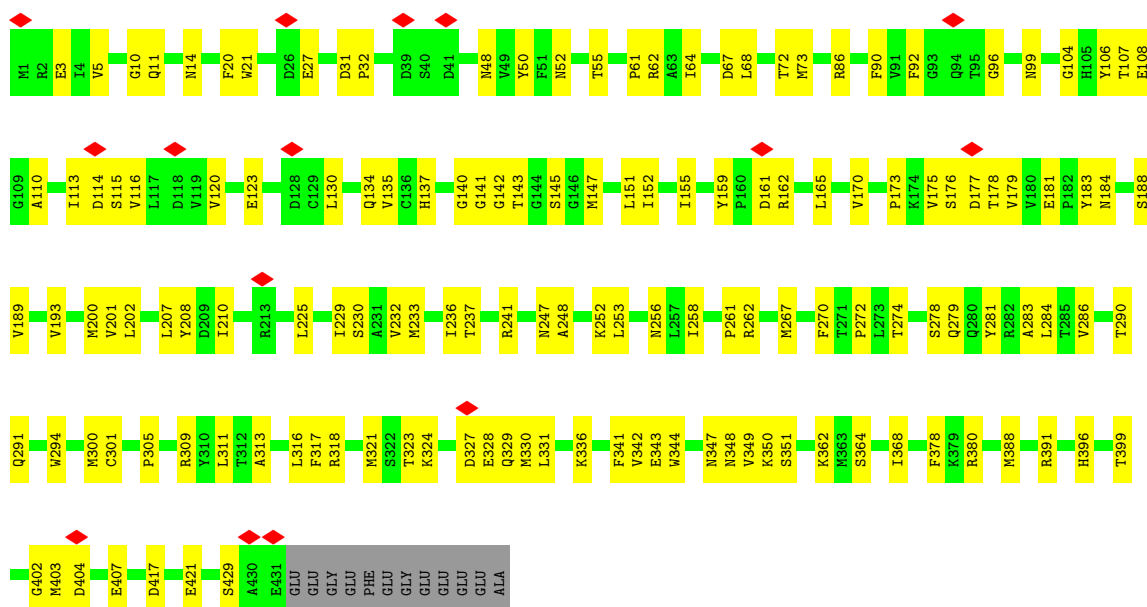
• Molecule 12: Tubulin beta

Chain 3c: 6% 27% .

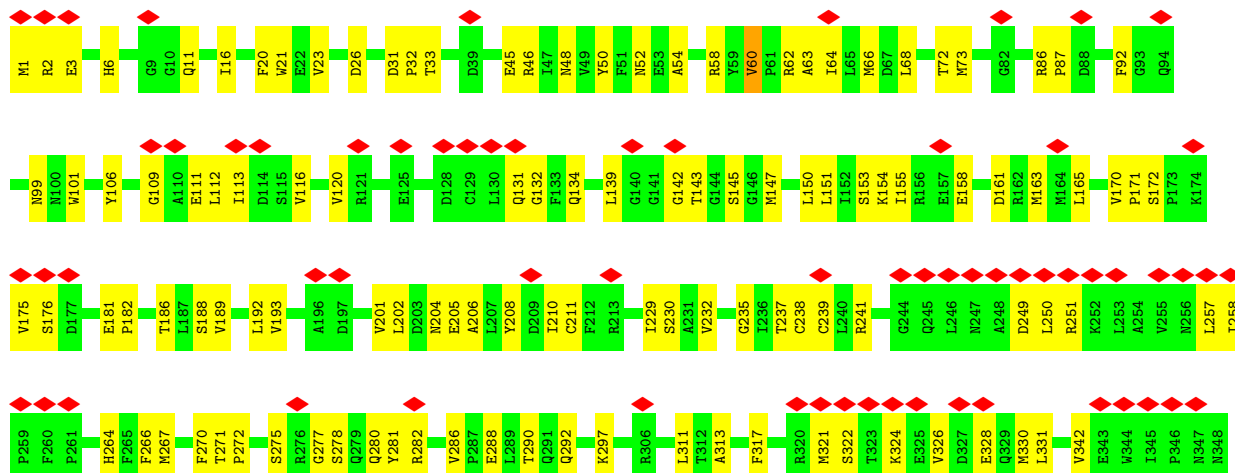




• Molecule 12: Tubulin beta

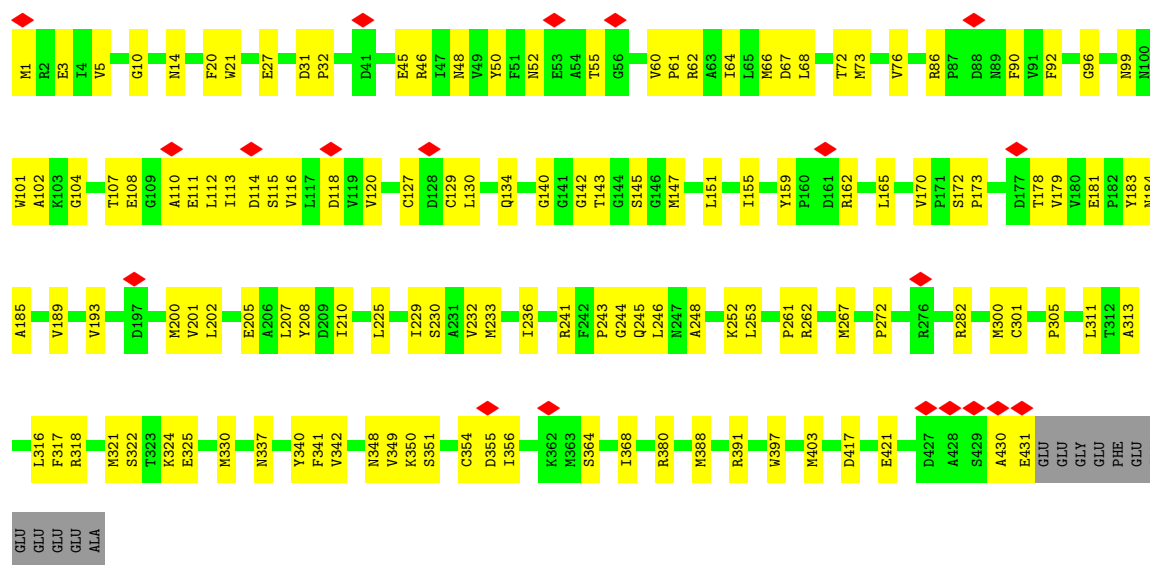


• Molecule 12: Tubulin beta

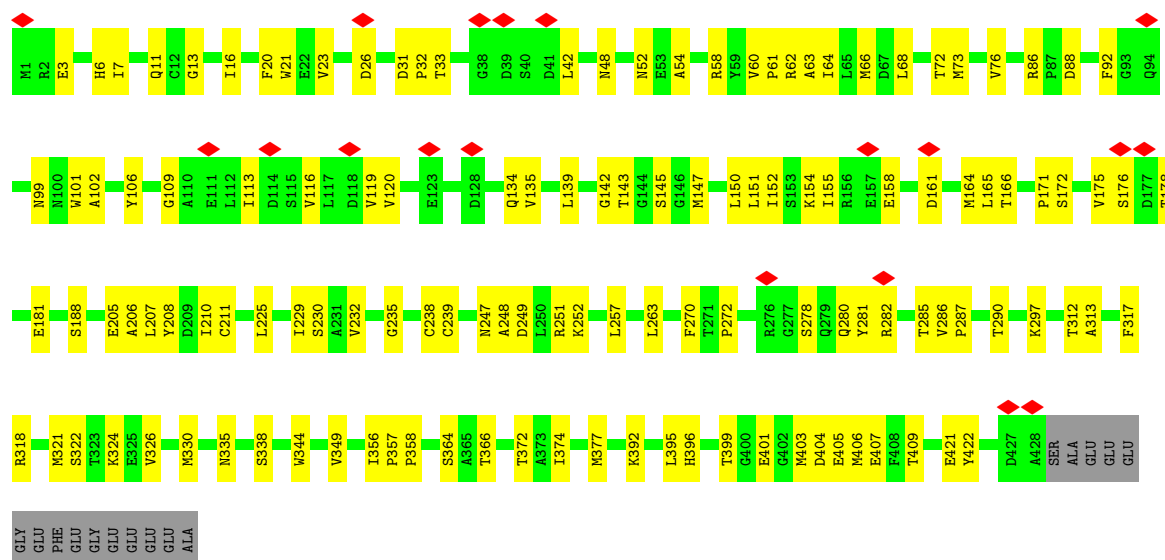




• Molecule 12: Tubulin beta

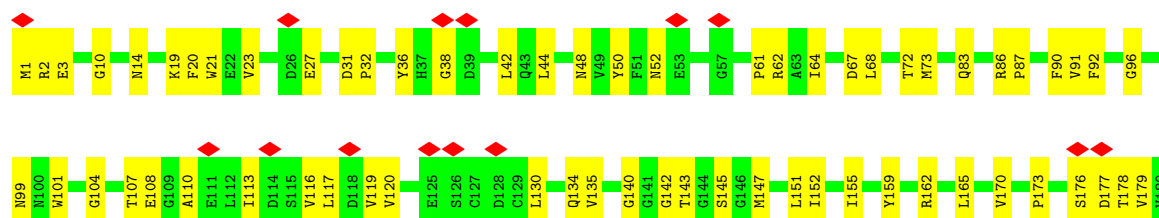


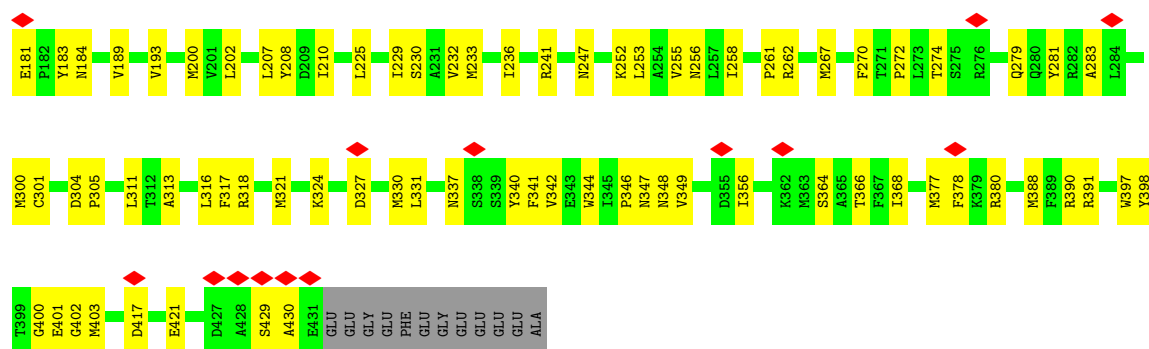
• Molecule 12: Tubulin beta



• Molecule 12: Tubulin beta

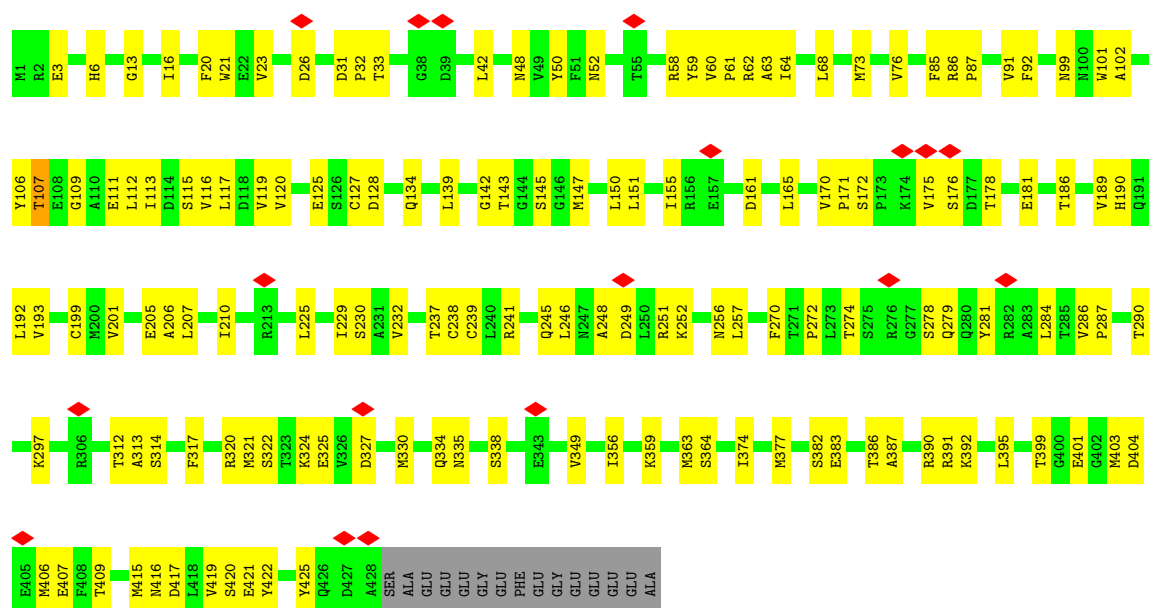






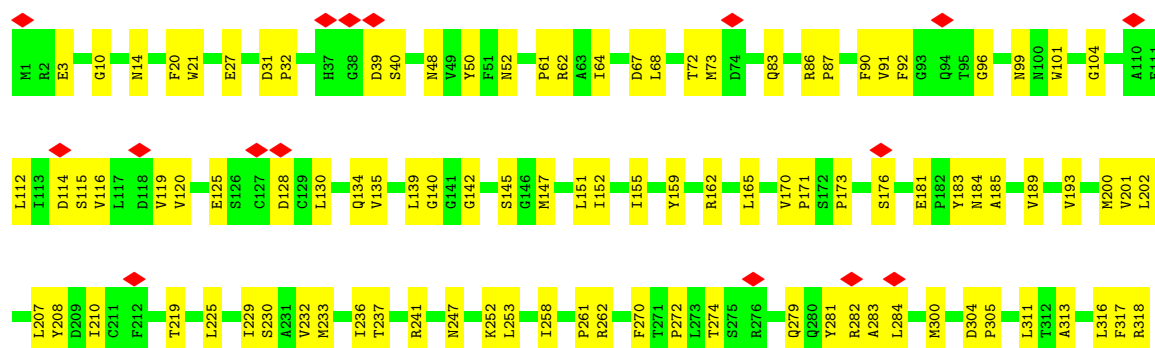
• Molecule 12: Tubulin beta

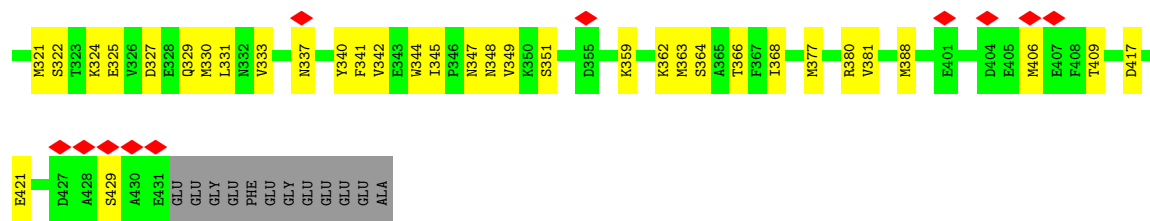
Chain 5e: 63% 33%



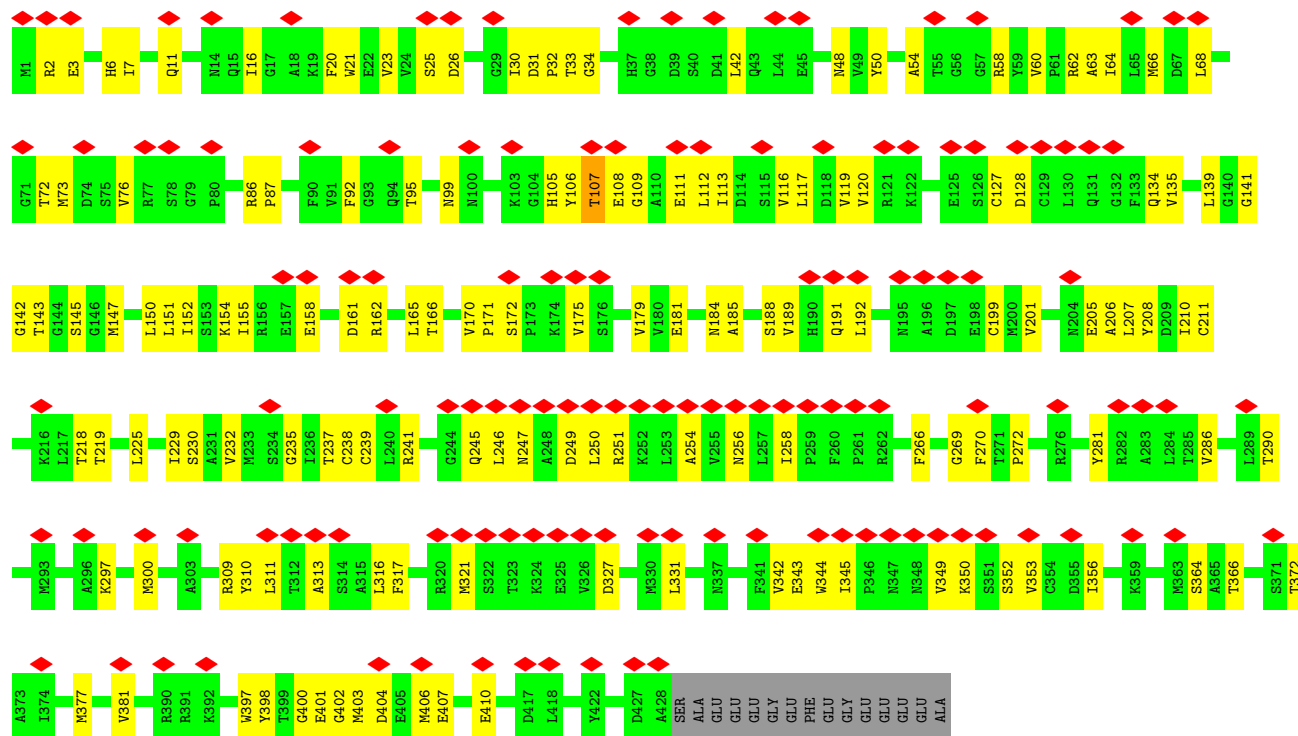
• Molecule 12: Tubulin beta

Chain 5g: 6% 67% 30%

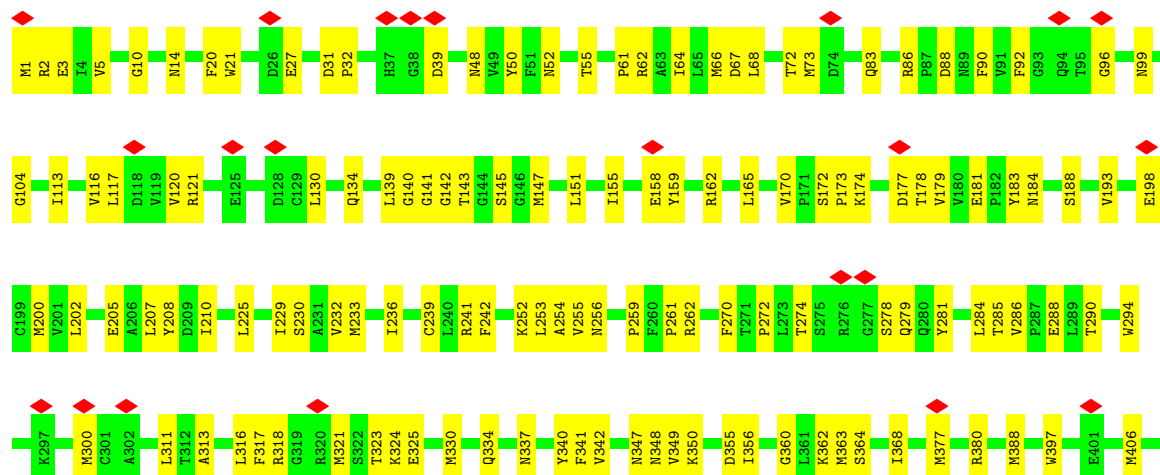


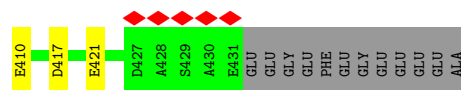


• Molecule 12: Tubulin beta

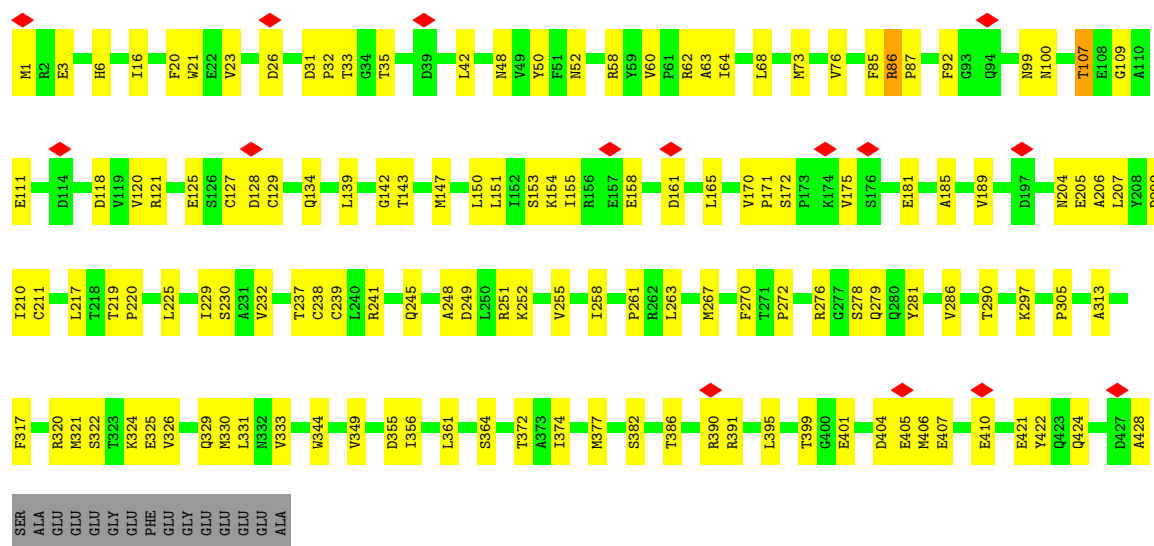


• Molecule 12: Tubulin beta

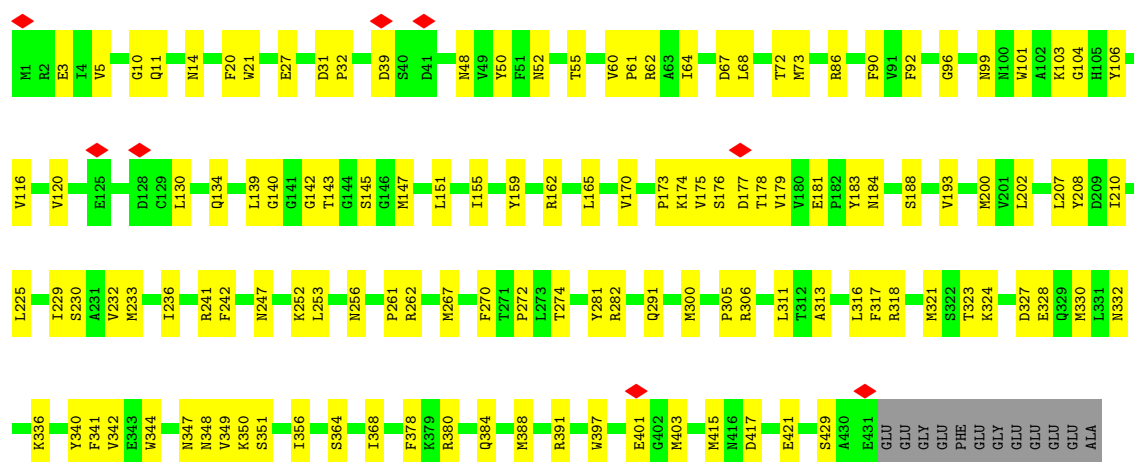




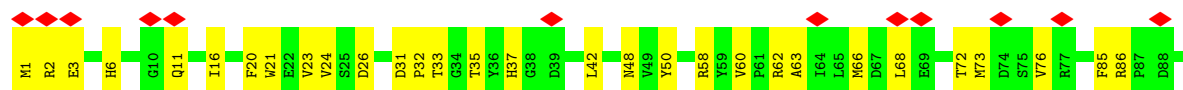
- Molecule 12: Tubulin beta

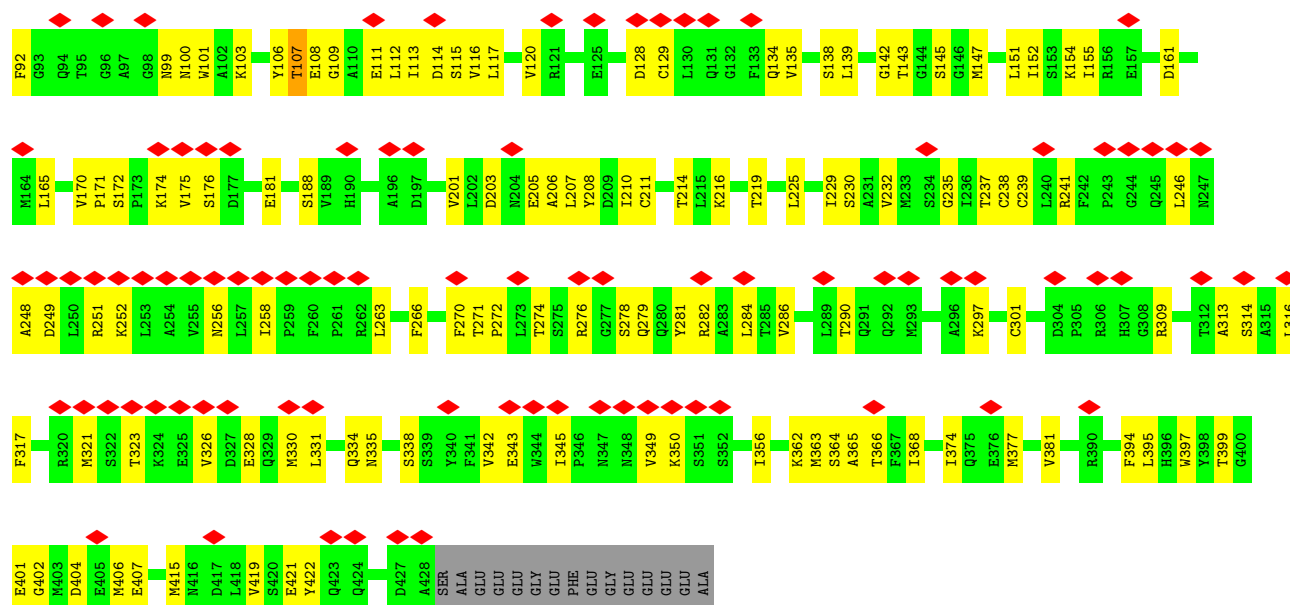


- Molecule 12: Tubulin beta

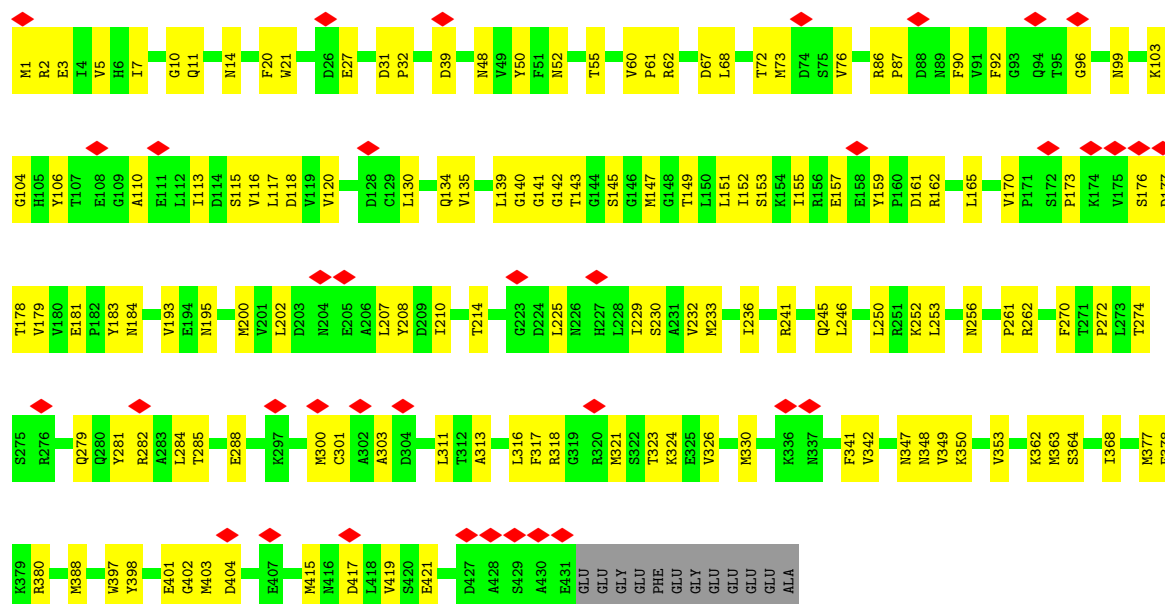


- Molecule 12: Tubulin beta

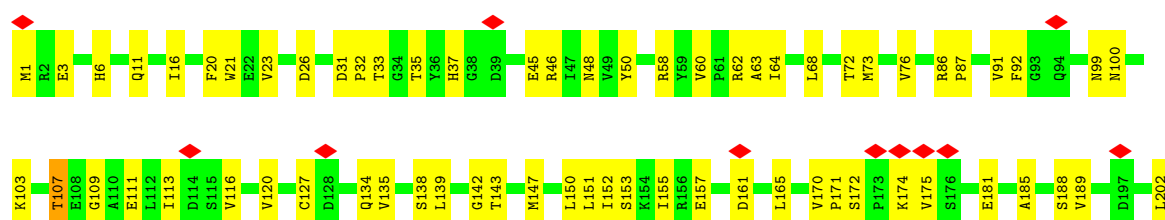


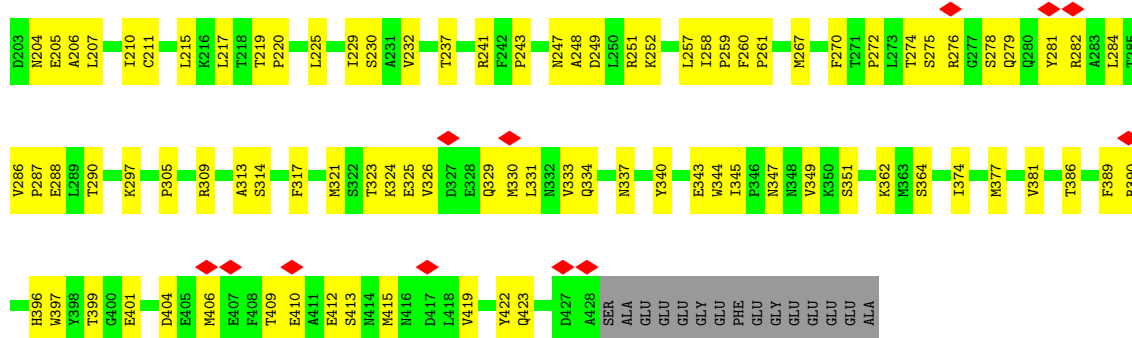


• Molecule 12: Tubulin beta

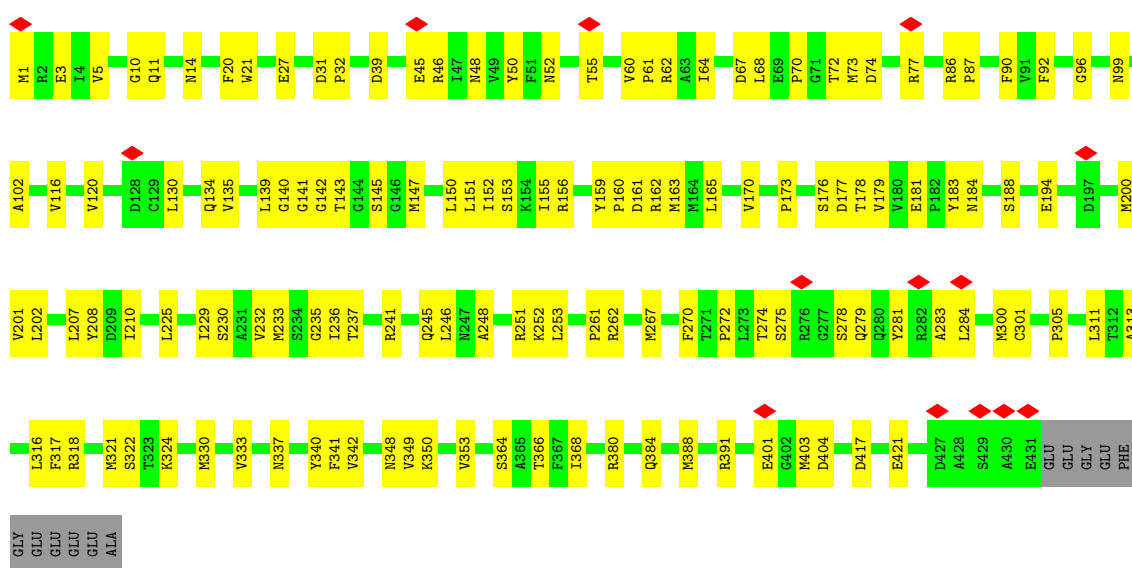


• Molecule 12: Tubulin beta

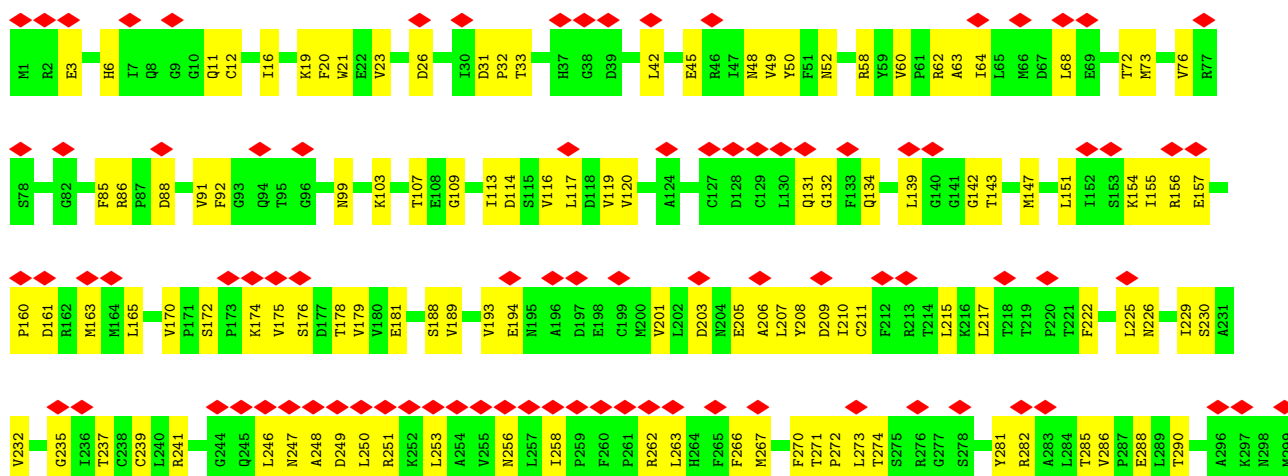


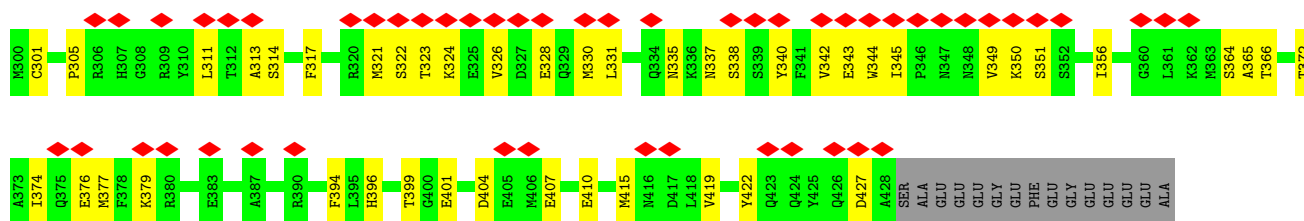


• Molecule 12: Tubulin beta

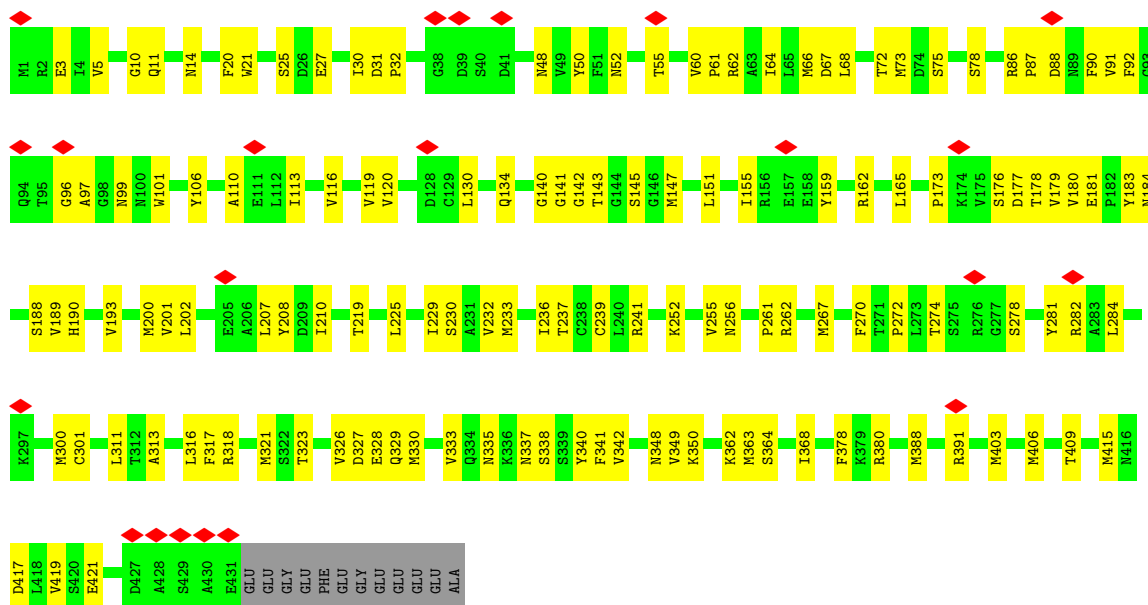


• Molecule 12: Tubulin beta

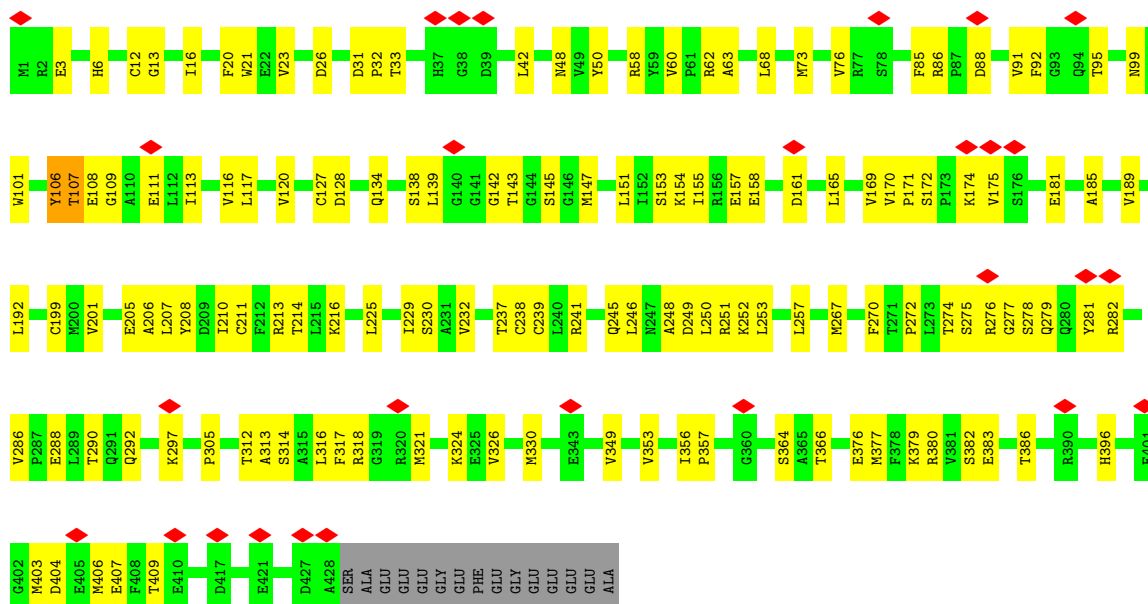




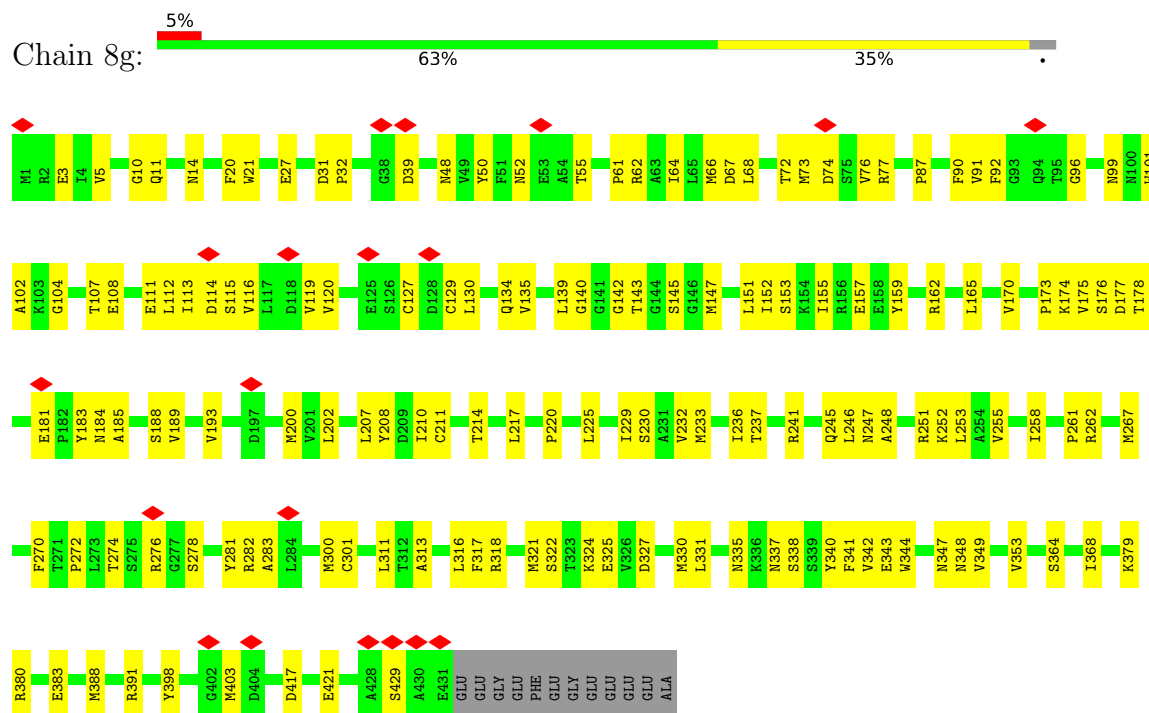
• Molecule 12: Tubulin beta



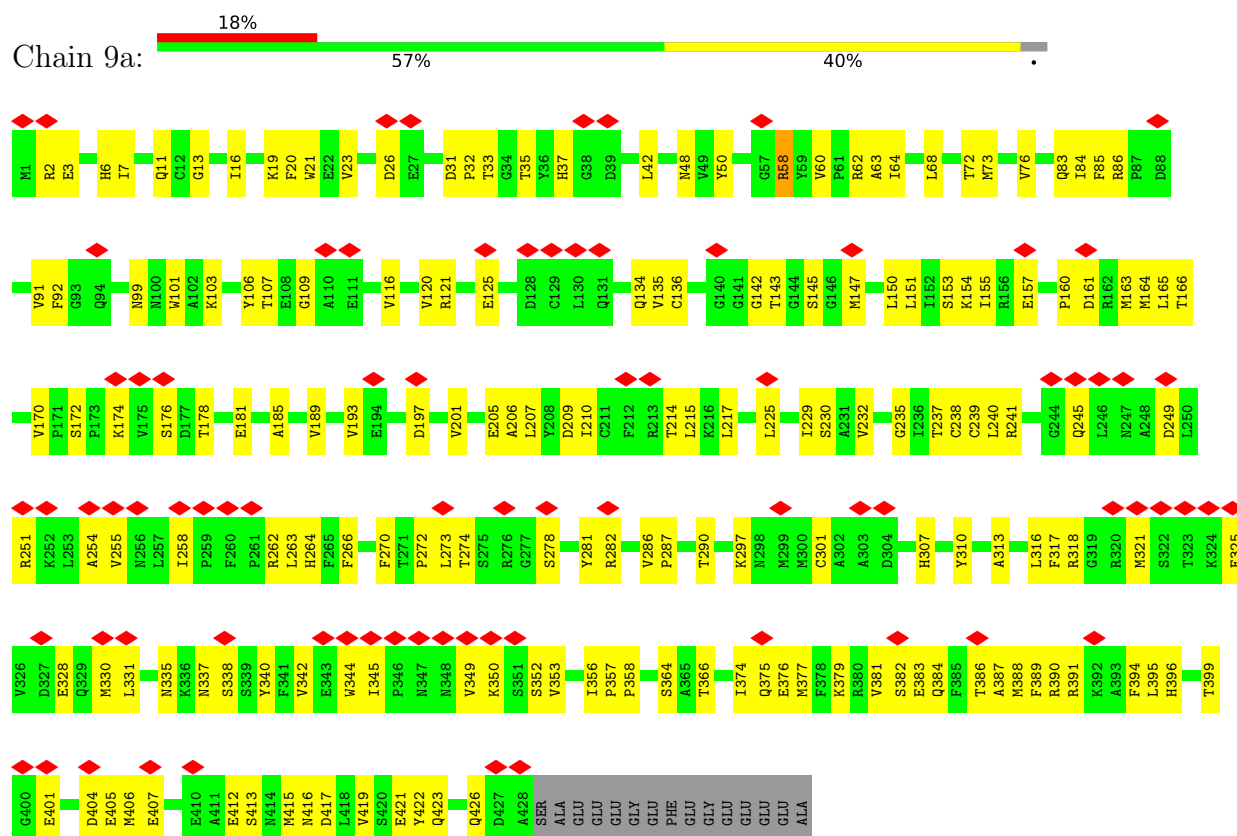
• Molecule 12: Tubulin beta



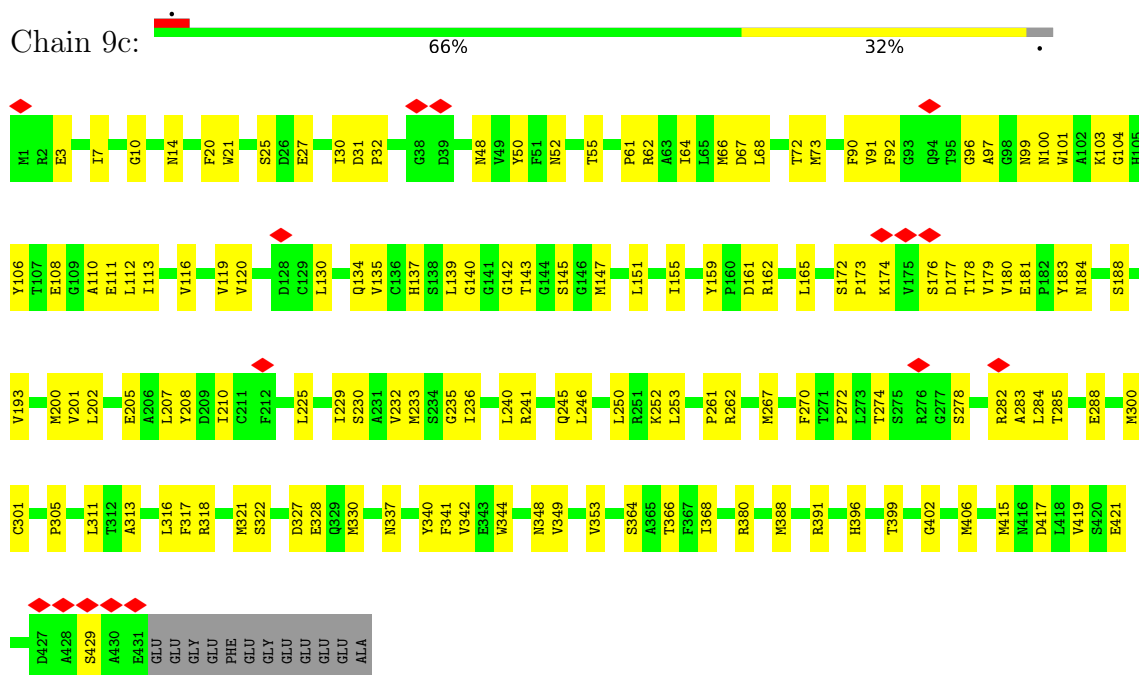
- Molecule 12: Tubulin beta



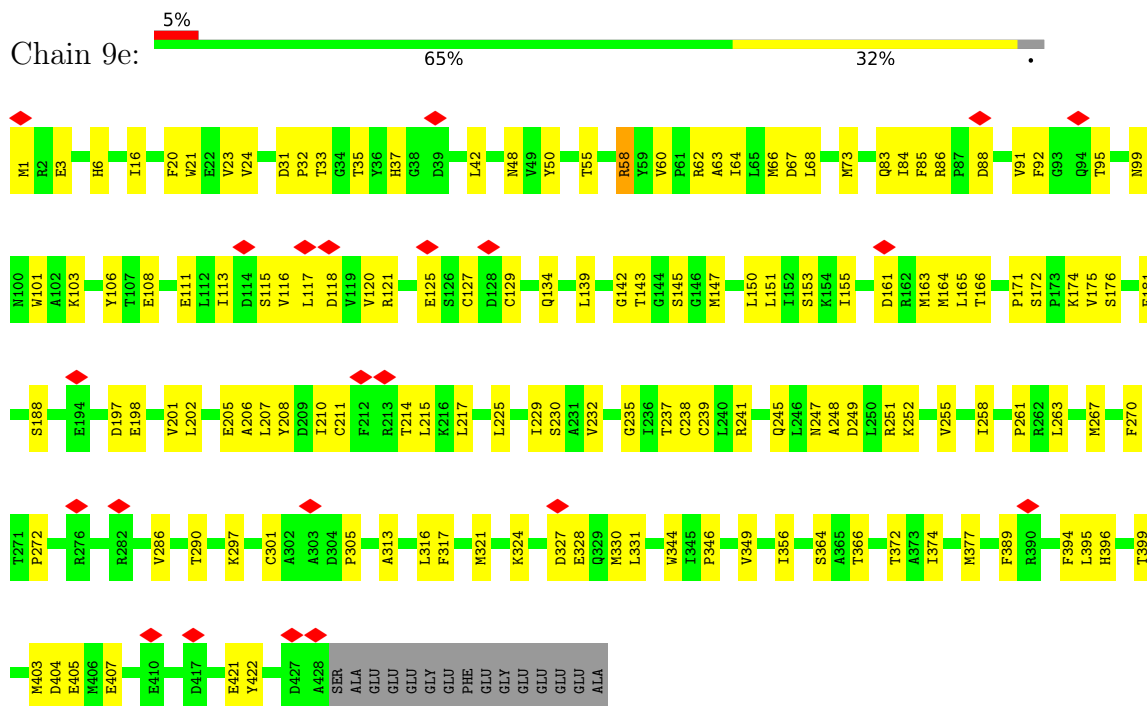
- Molecule 12: Tubulin beta



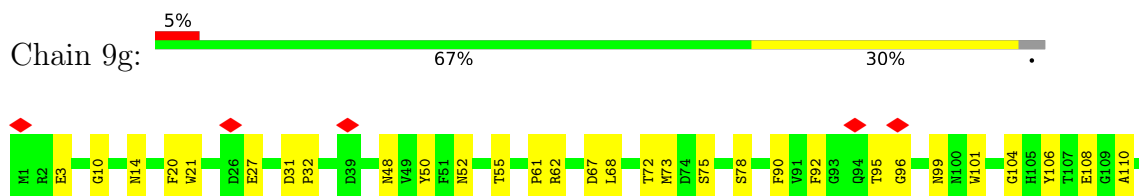
- Molecule 12: Tubulin beta

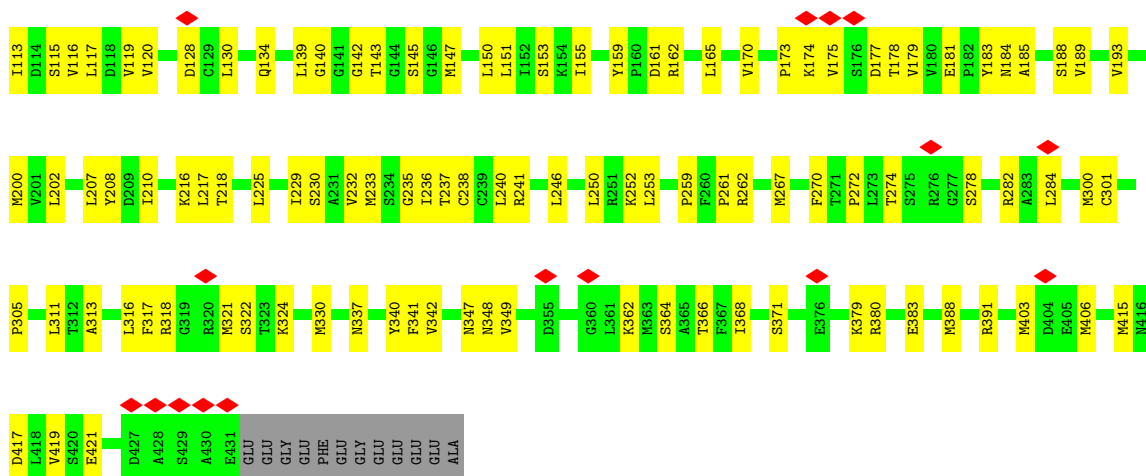


• Molecule 12: Tubulin beta

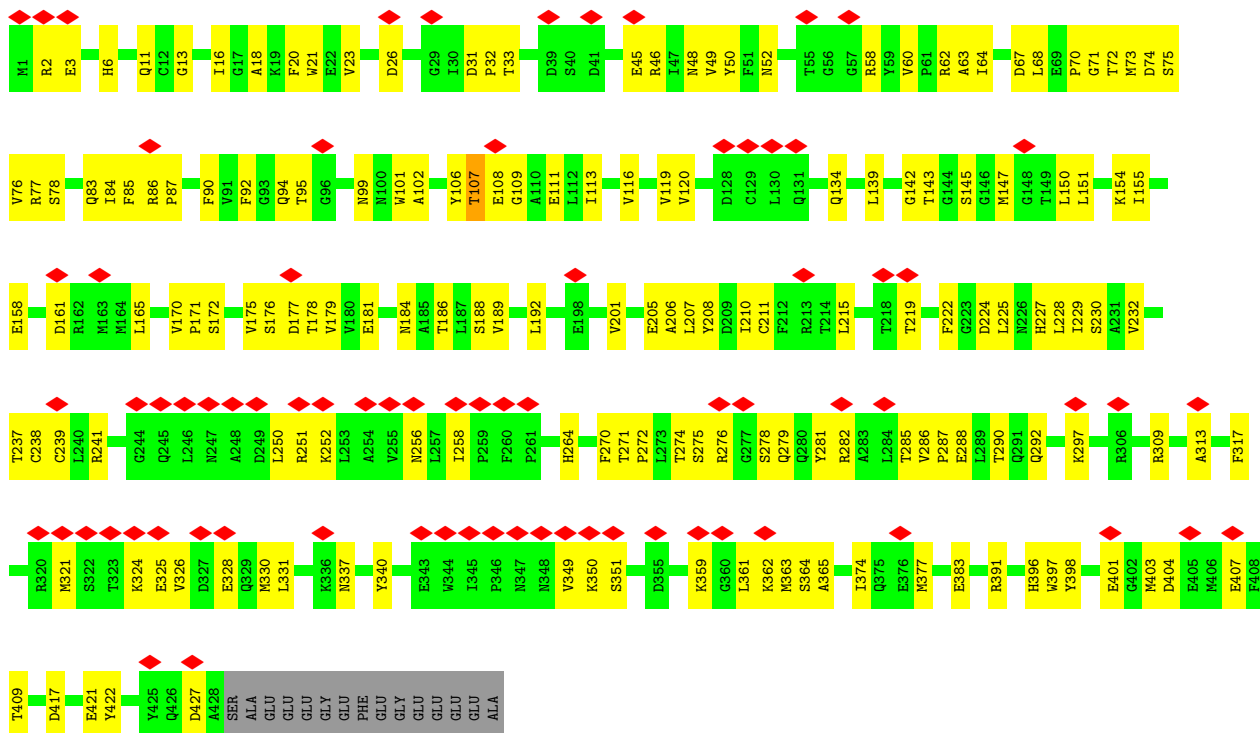


• Molecule 12: Tubulin beta

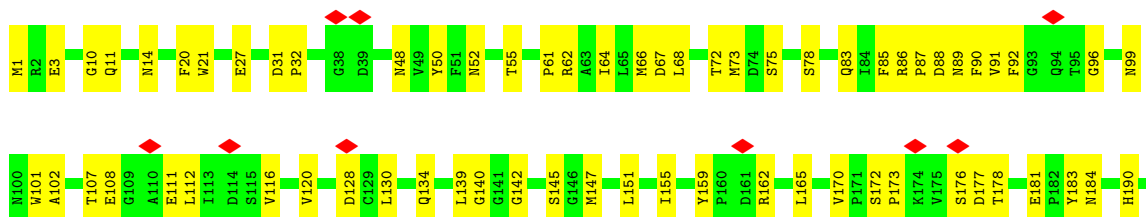


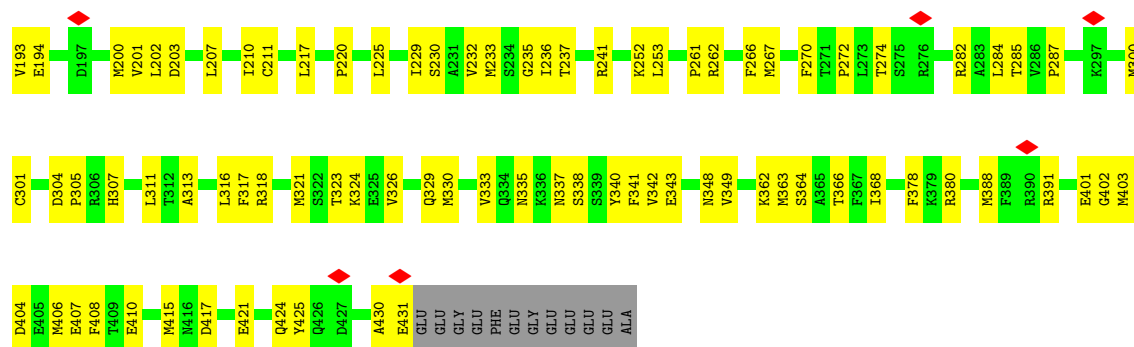


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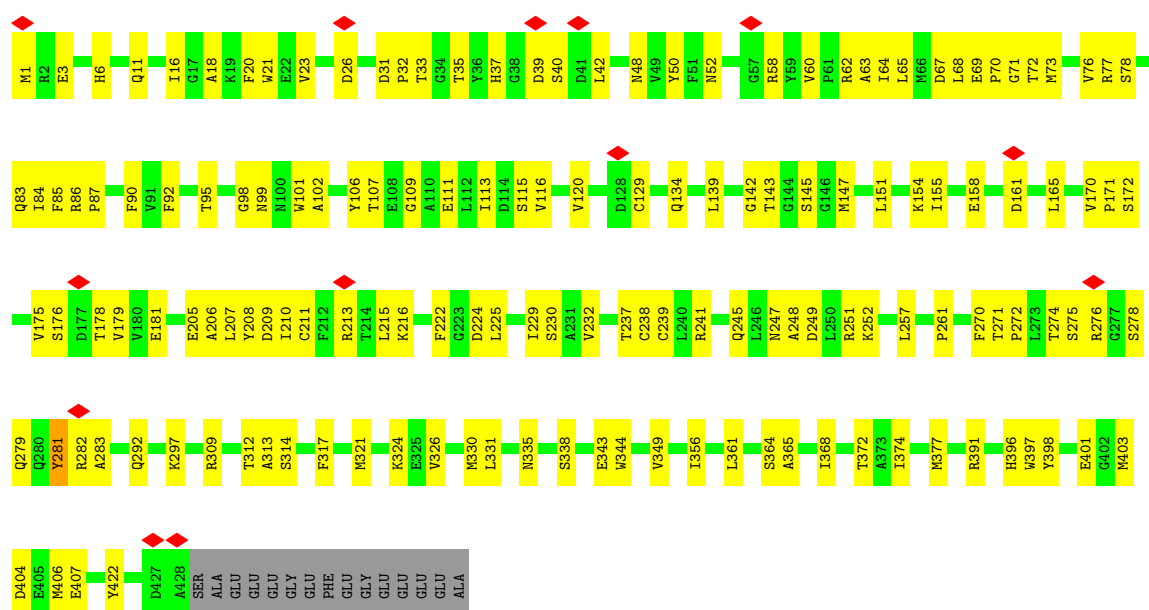


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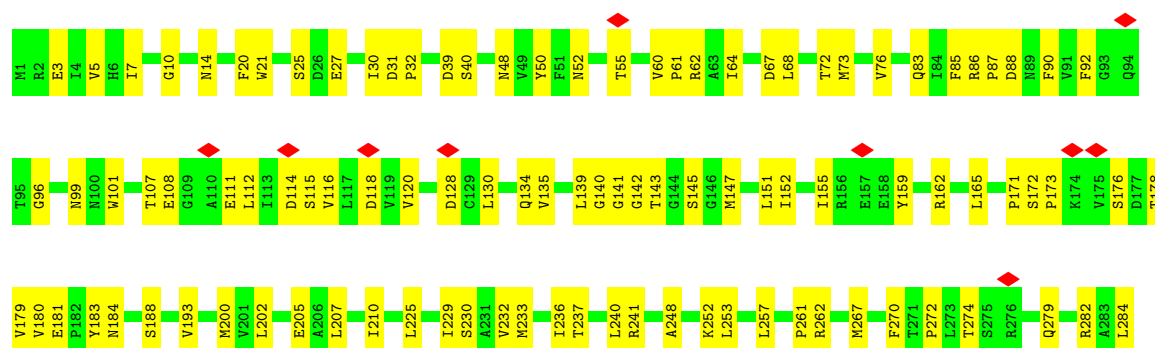


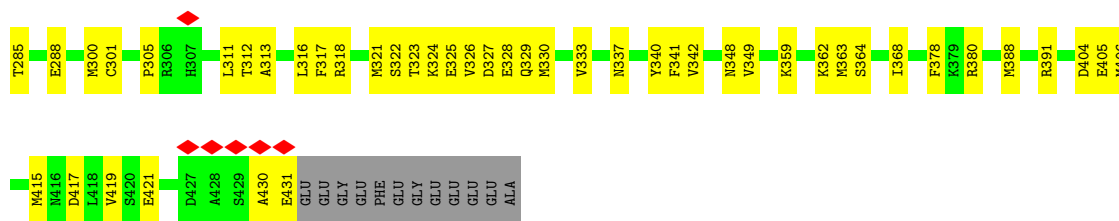


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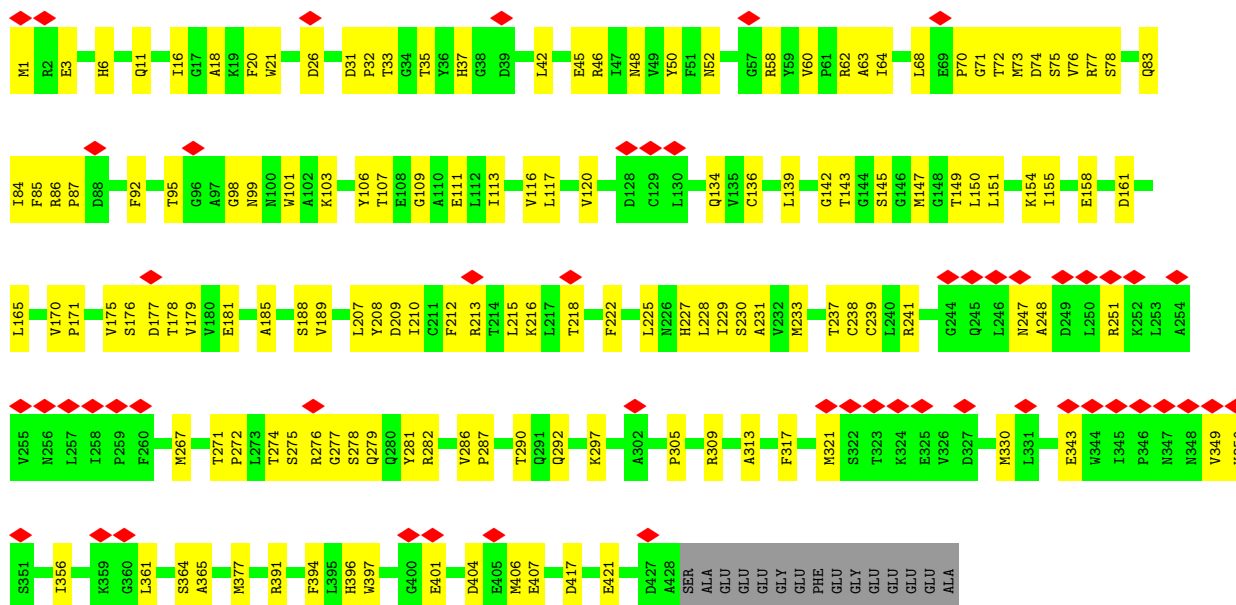


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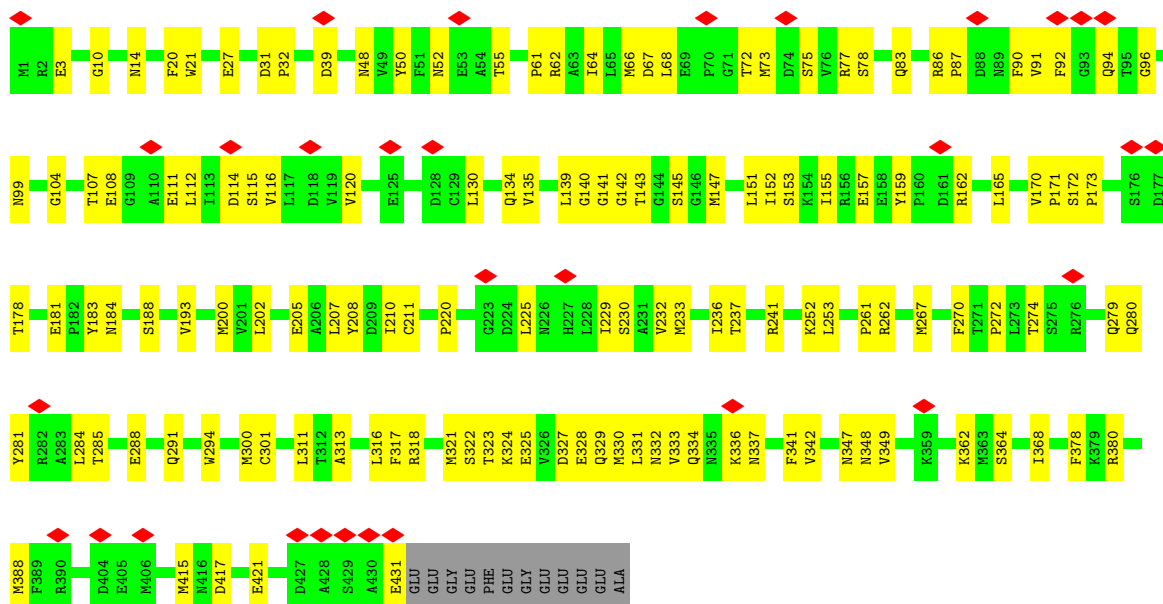




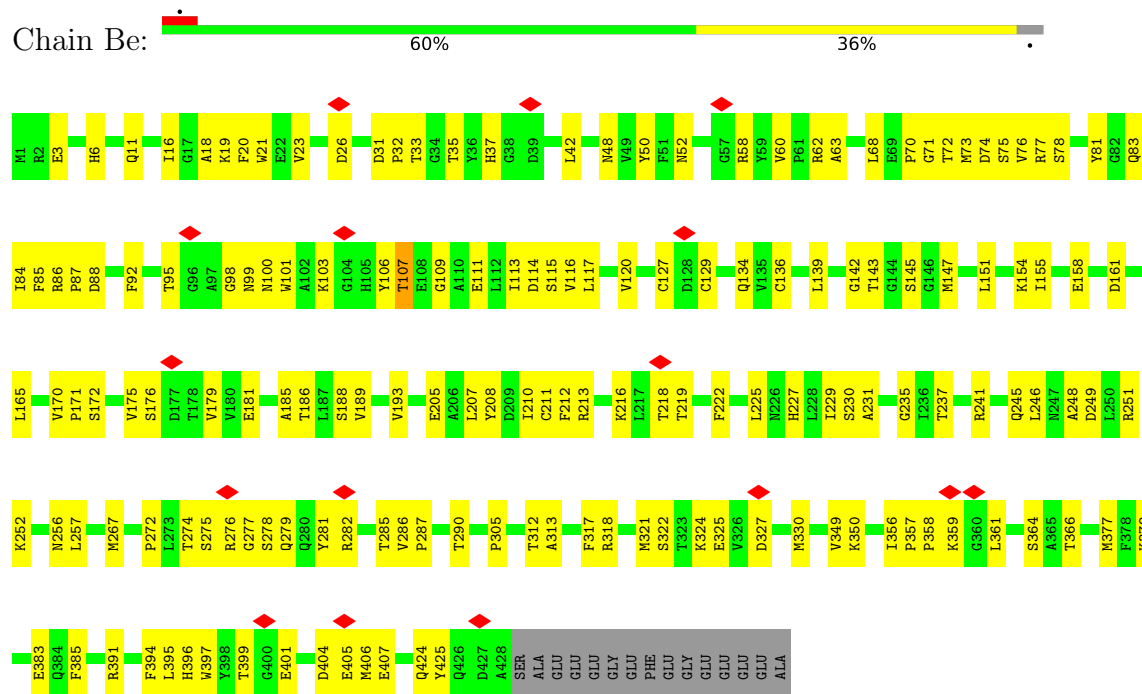
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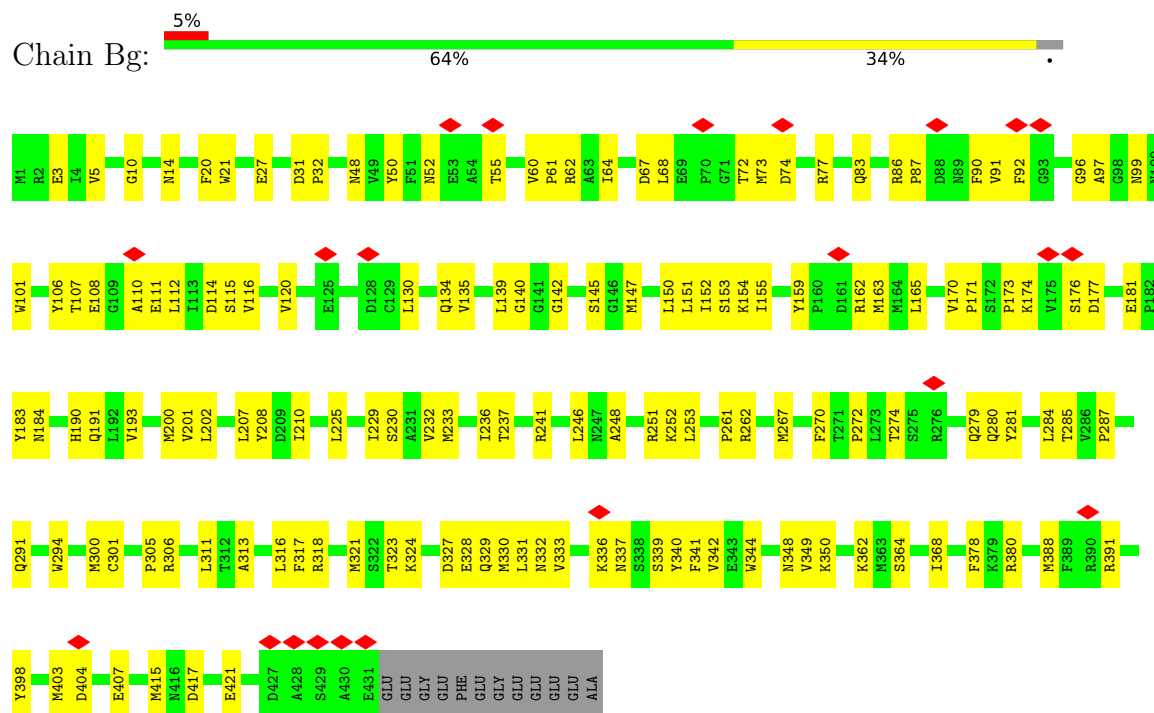
• Molecule 12: Tubulin beta



- Molecule 12: Tubulin beta

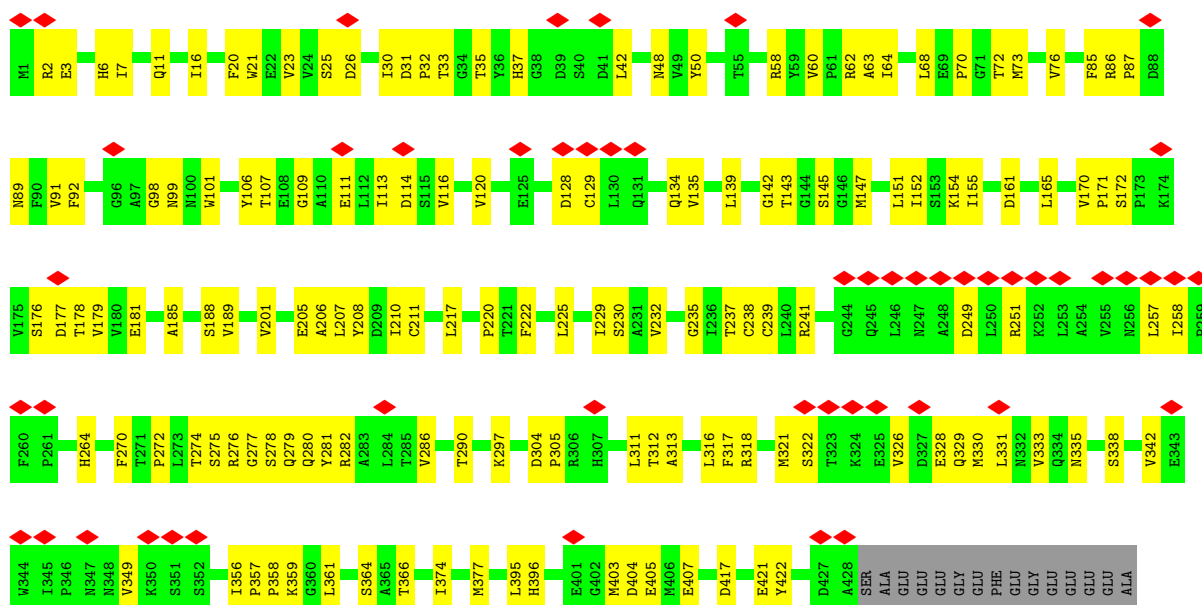


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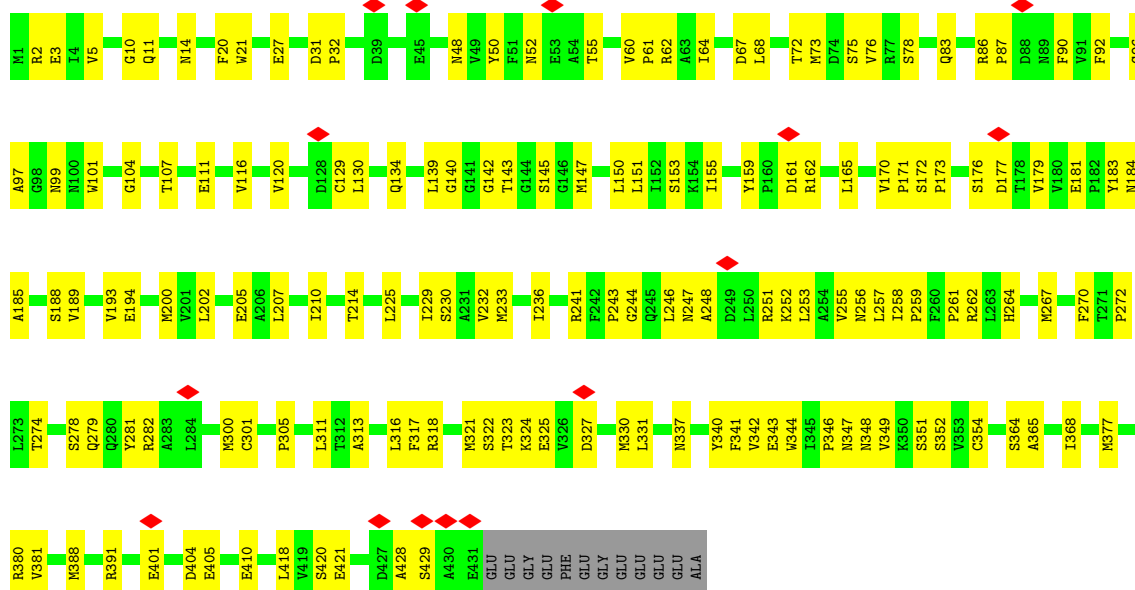


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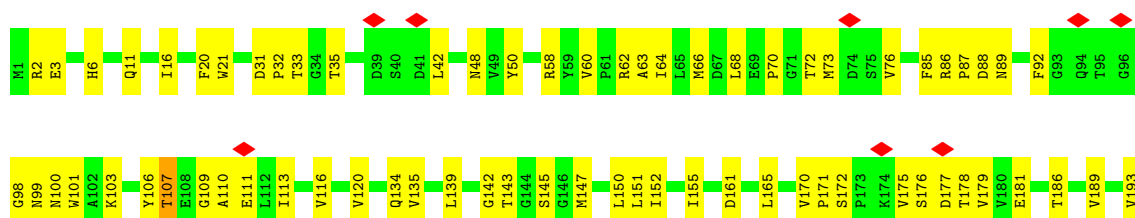




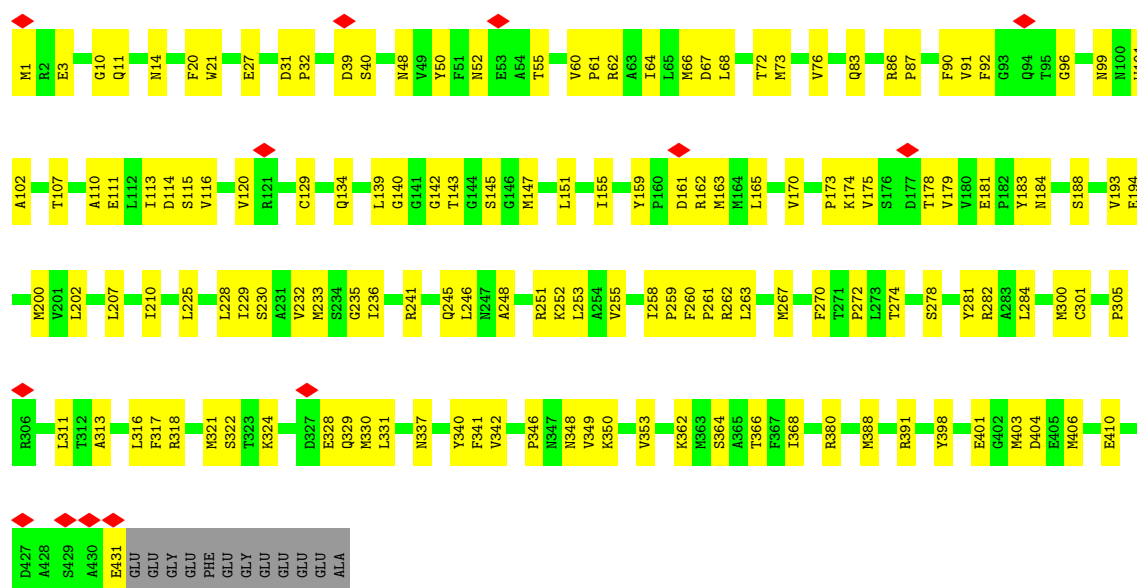
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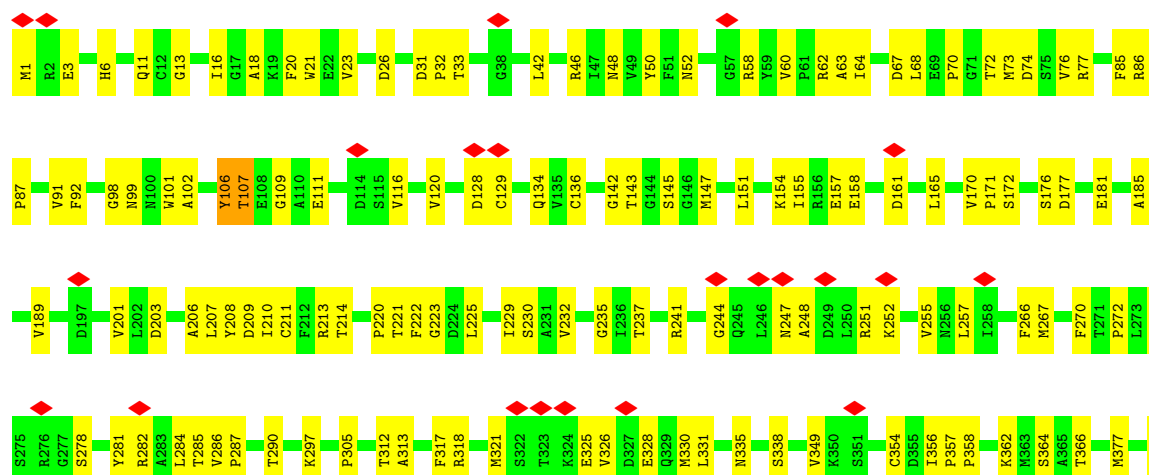
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- Molecule 12: Tubulin beta

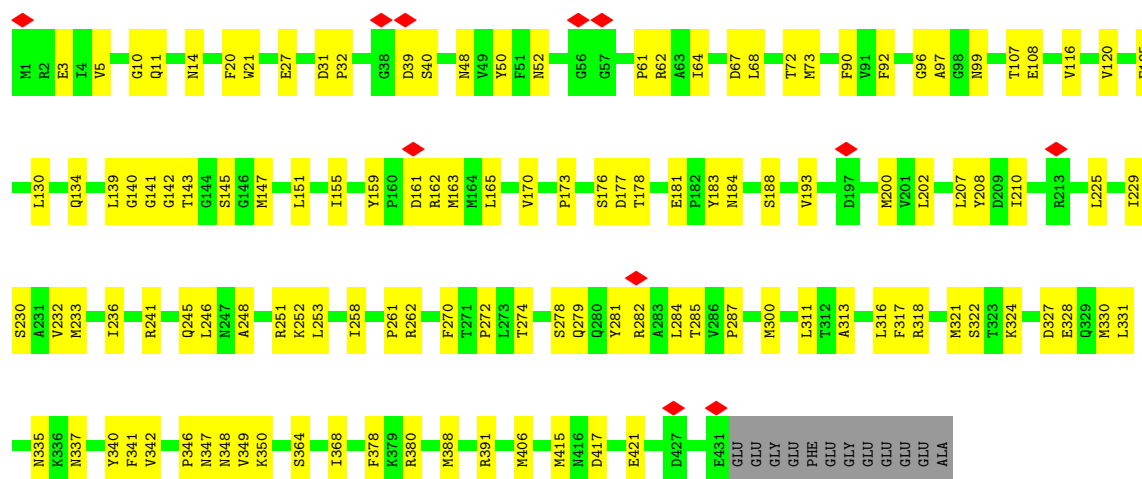


- Molecule 12: Tubulin beta

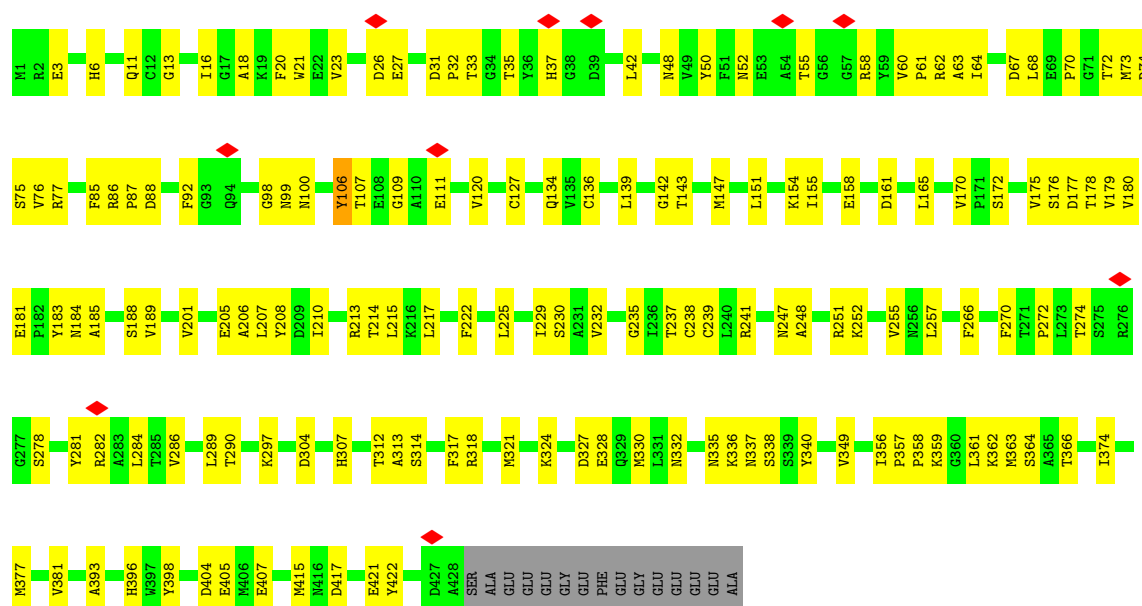




• Molecule 12: Tubulin beta

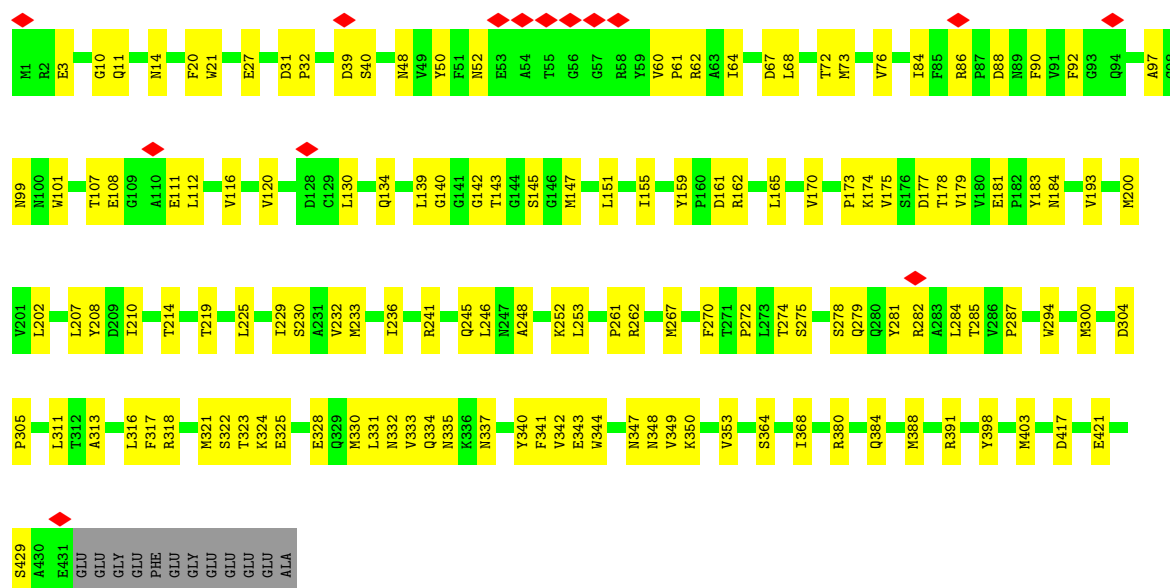


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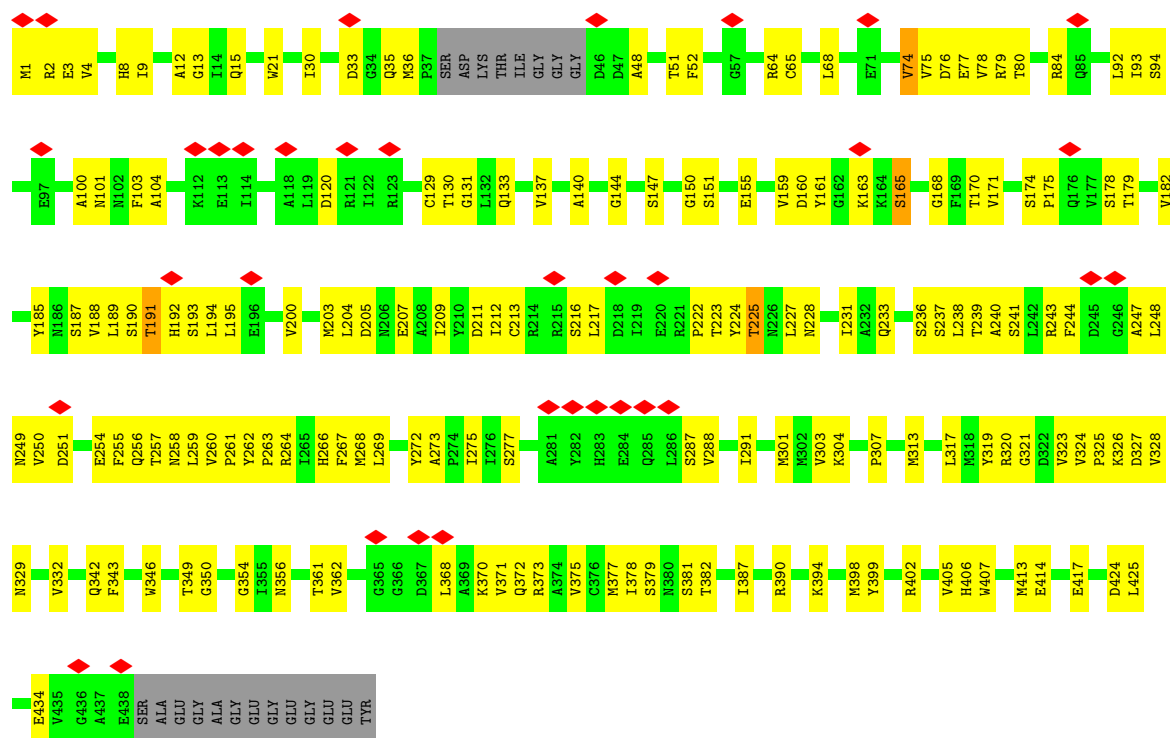


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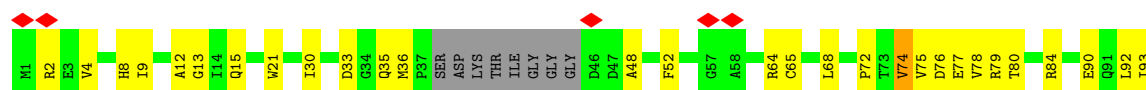


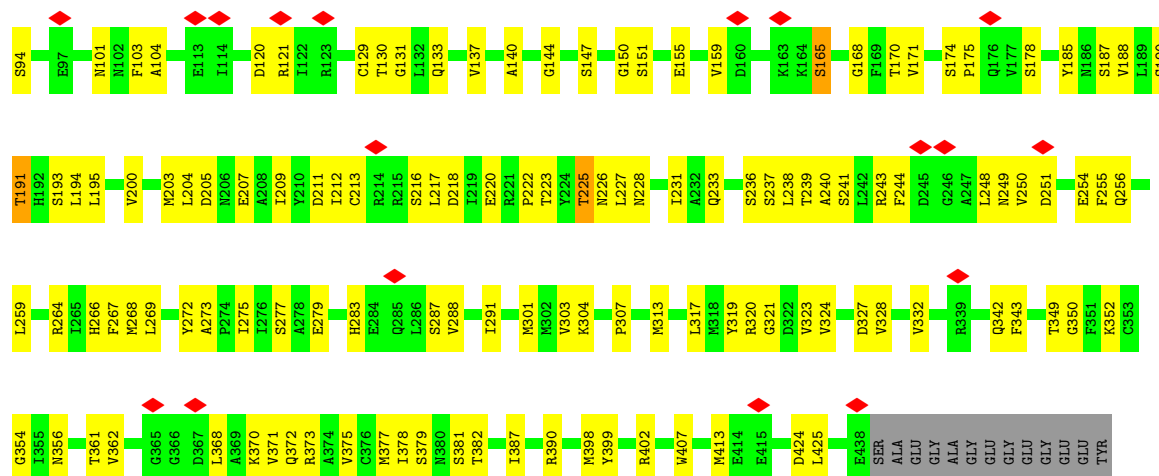


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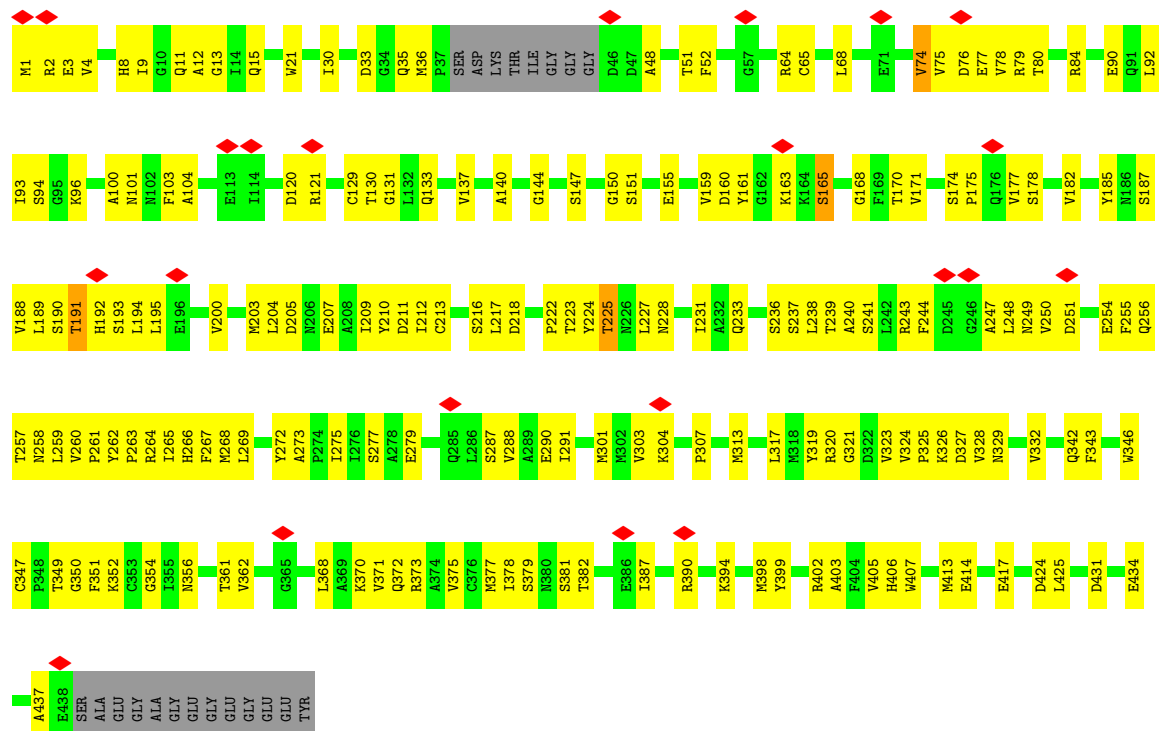


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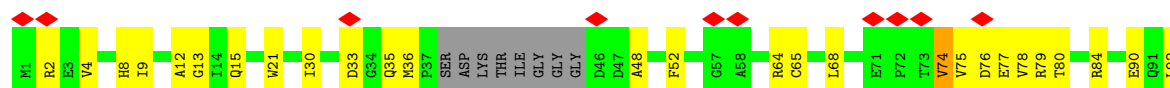


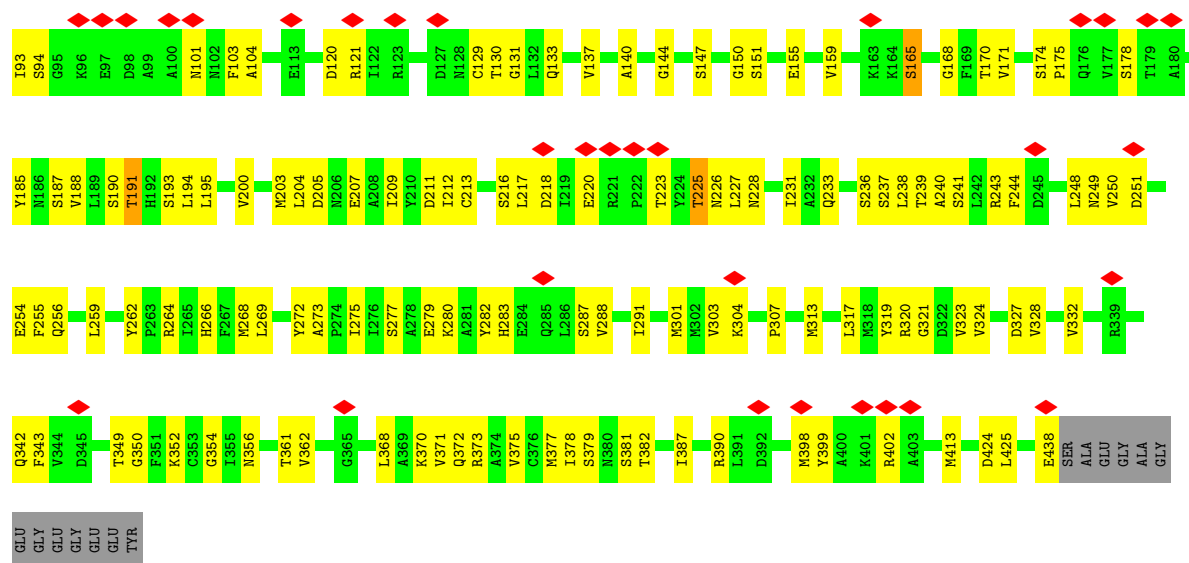


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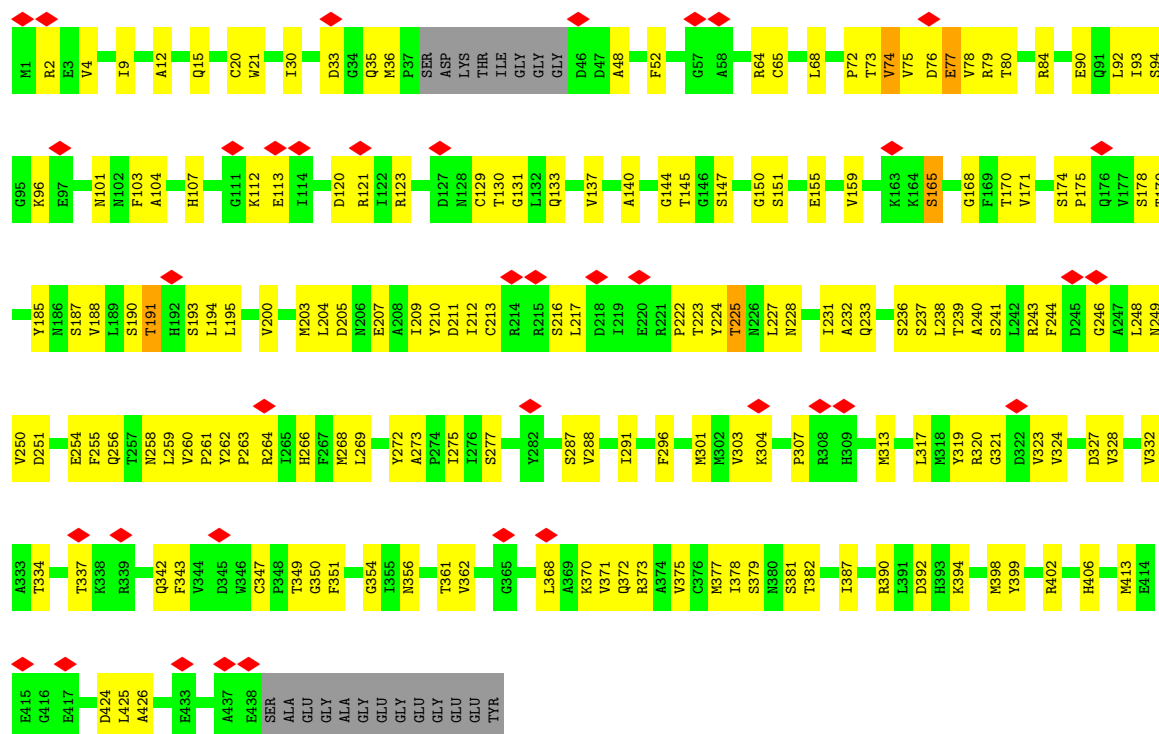


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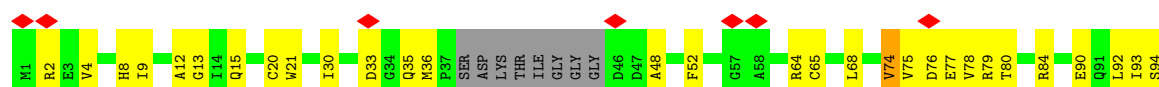


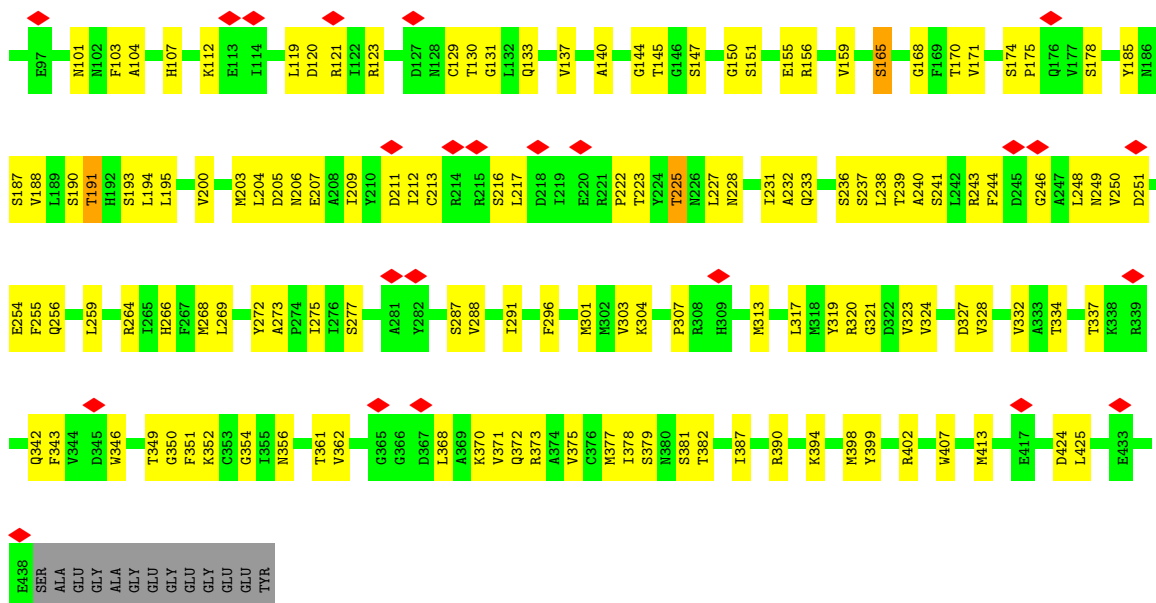


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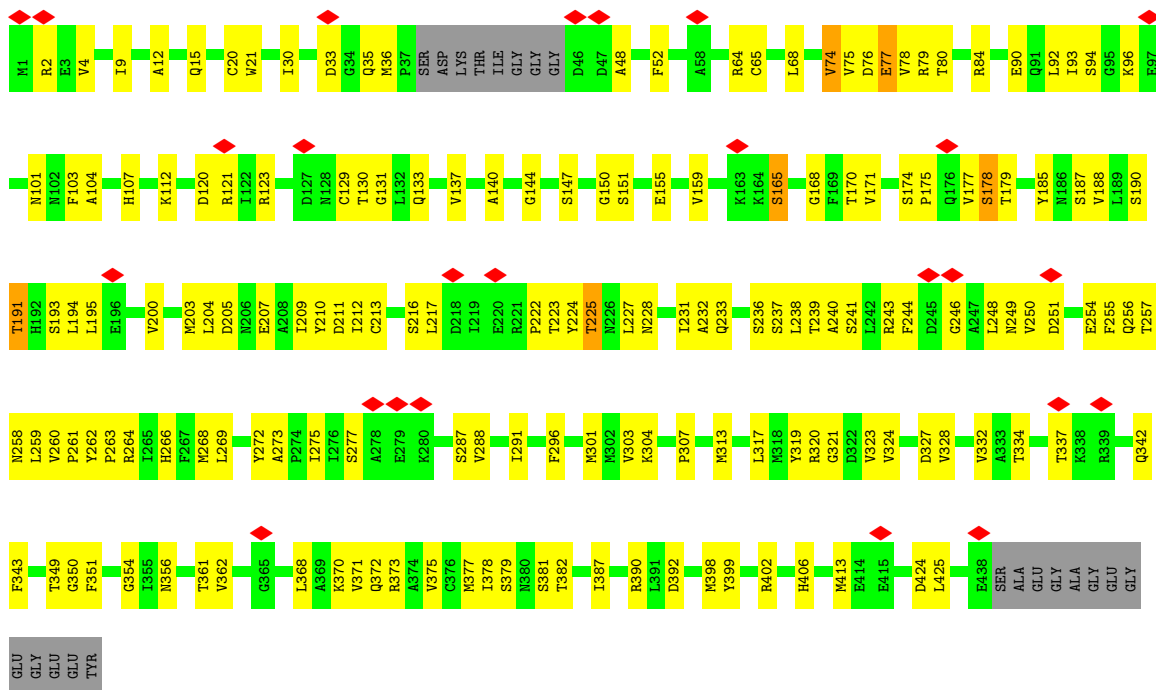


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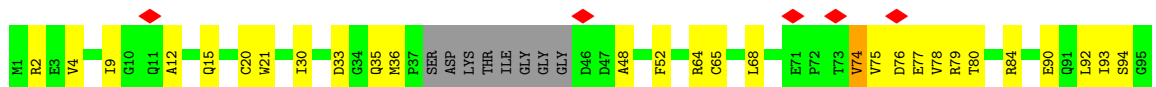


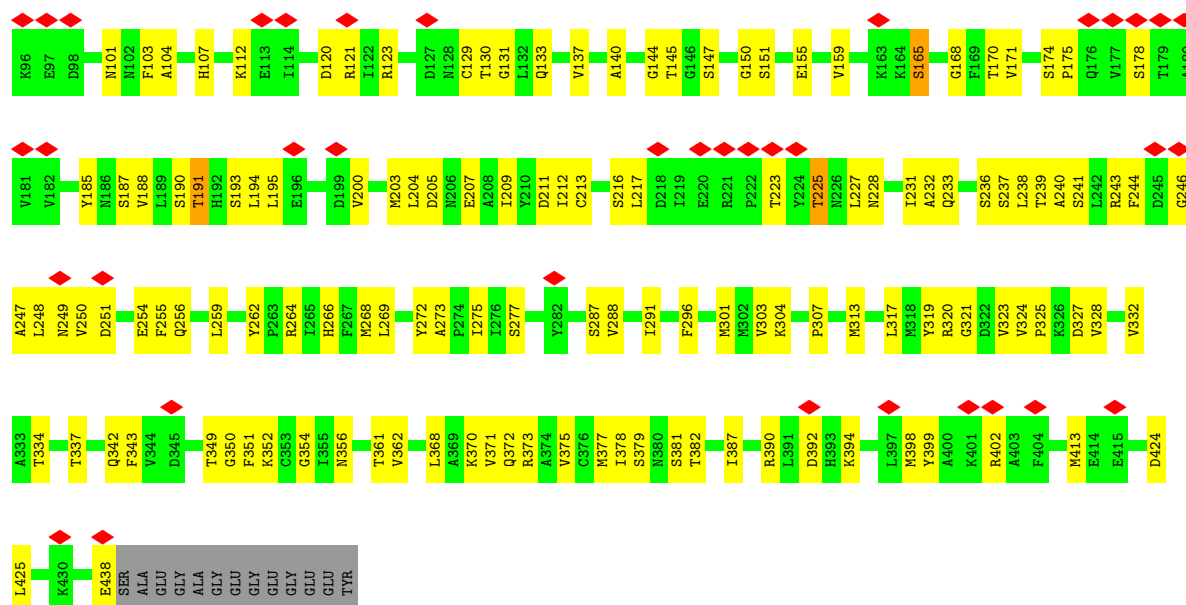


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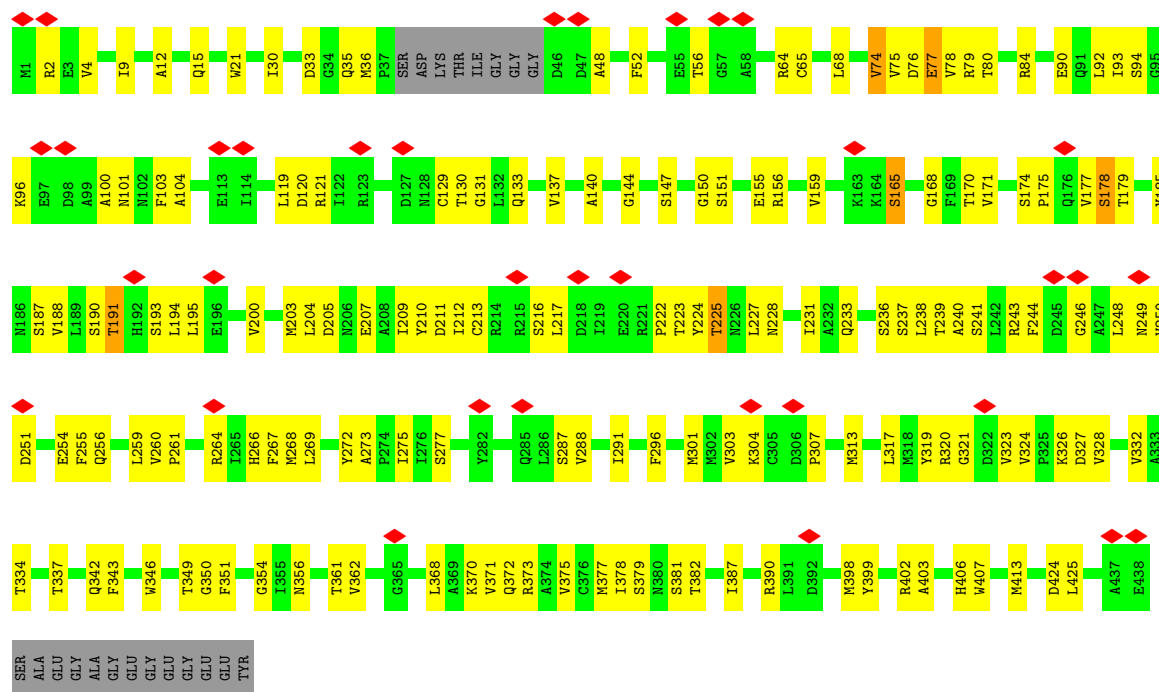


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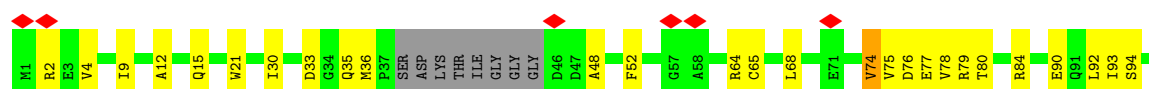


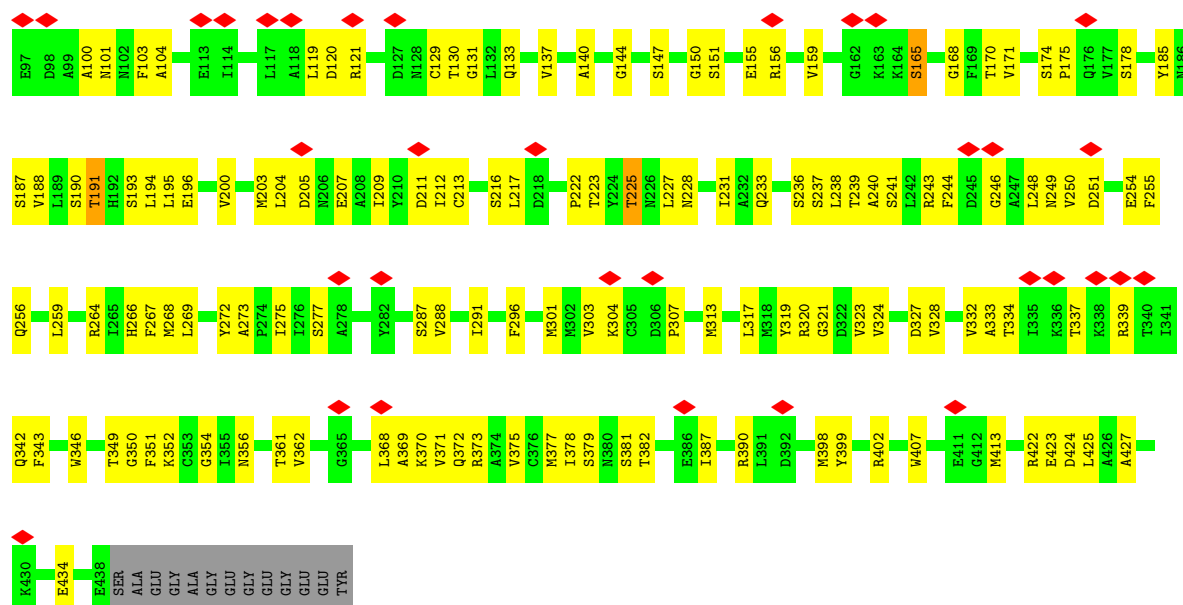


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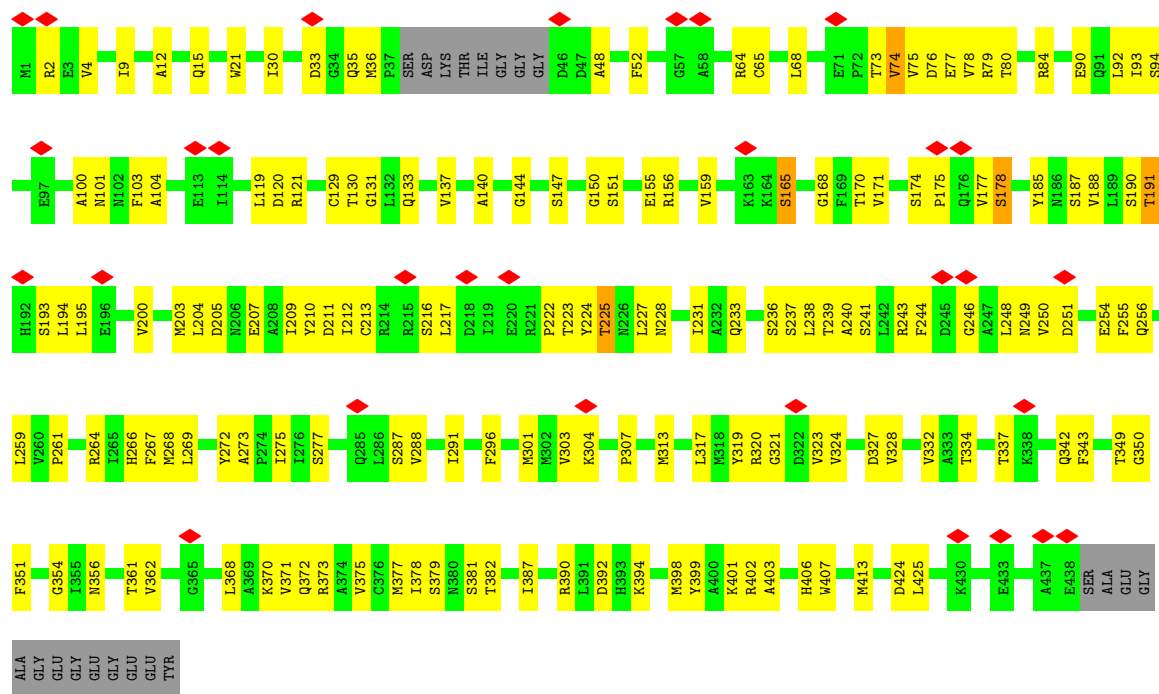


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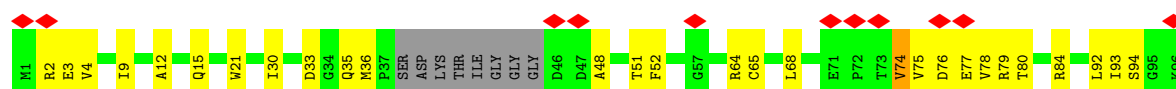


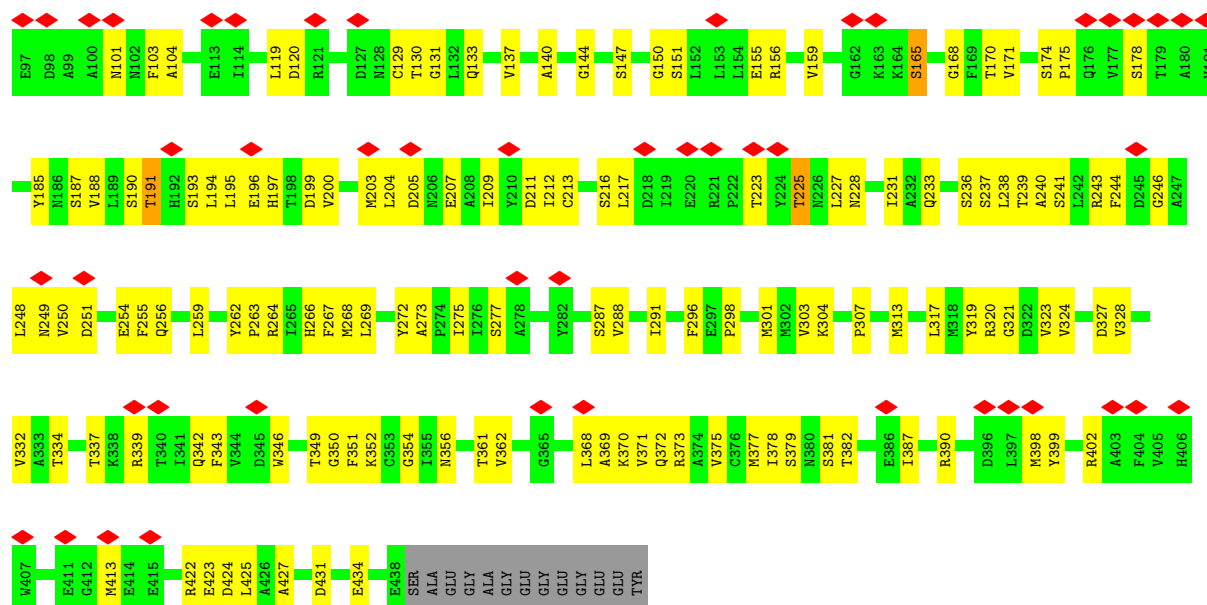


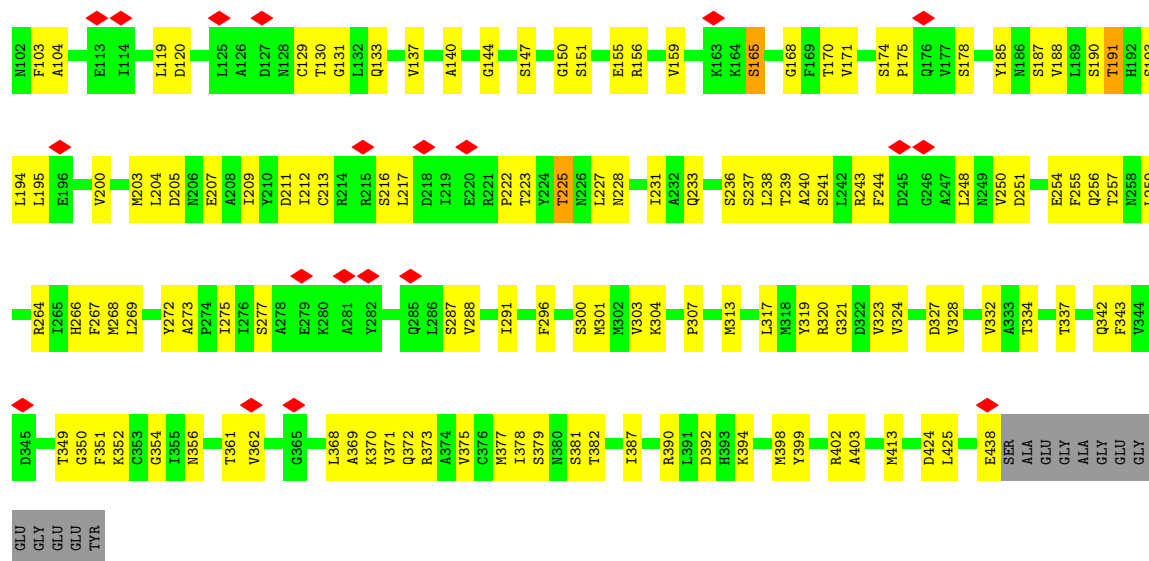
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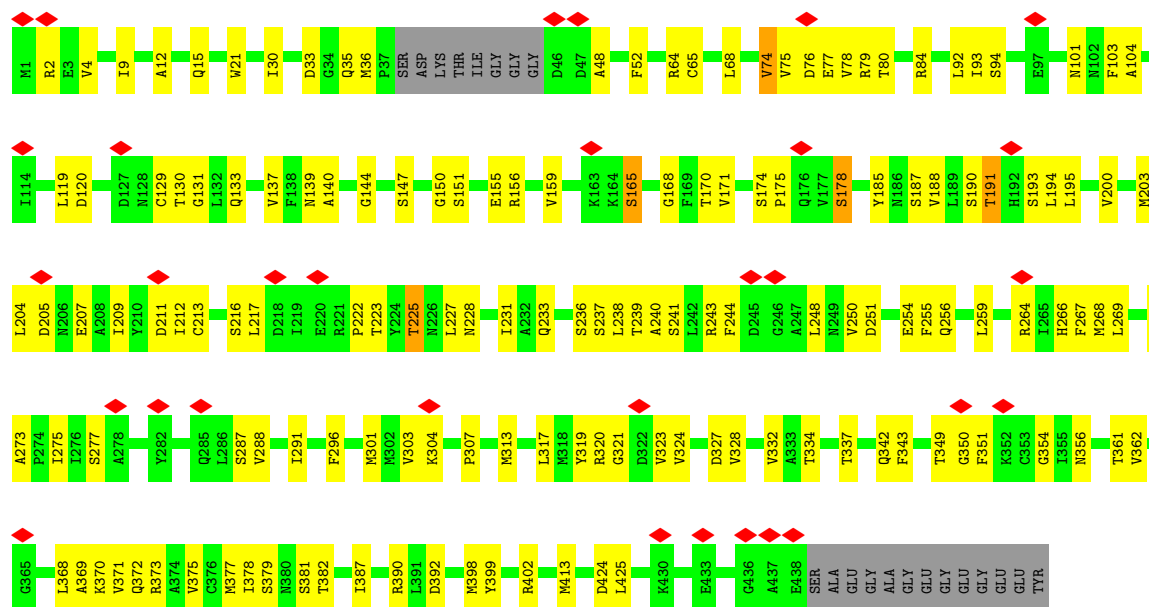
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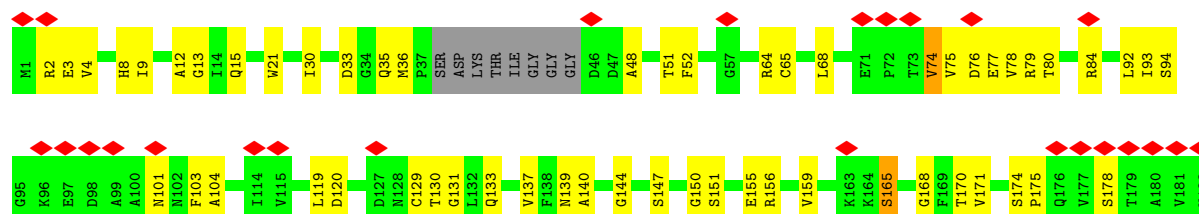


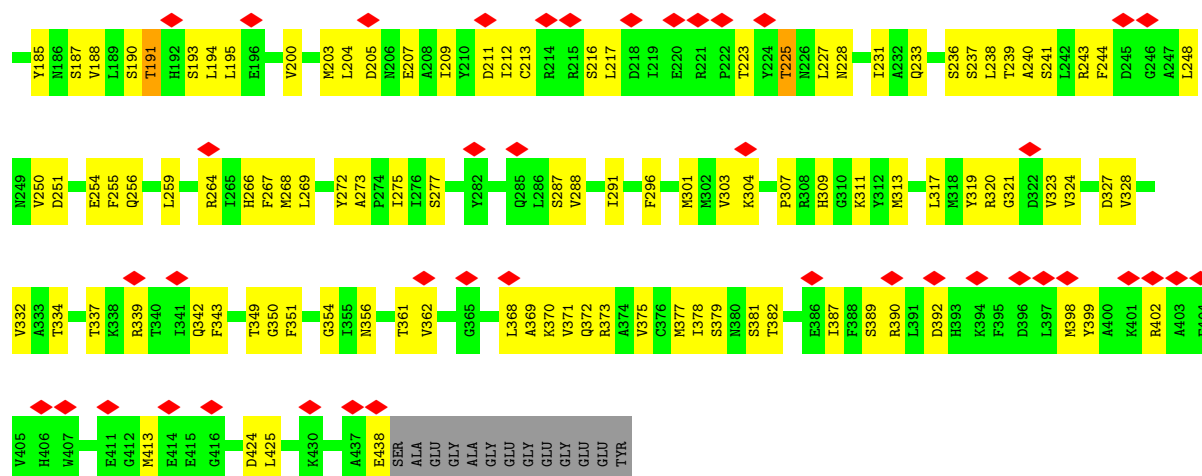


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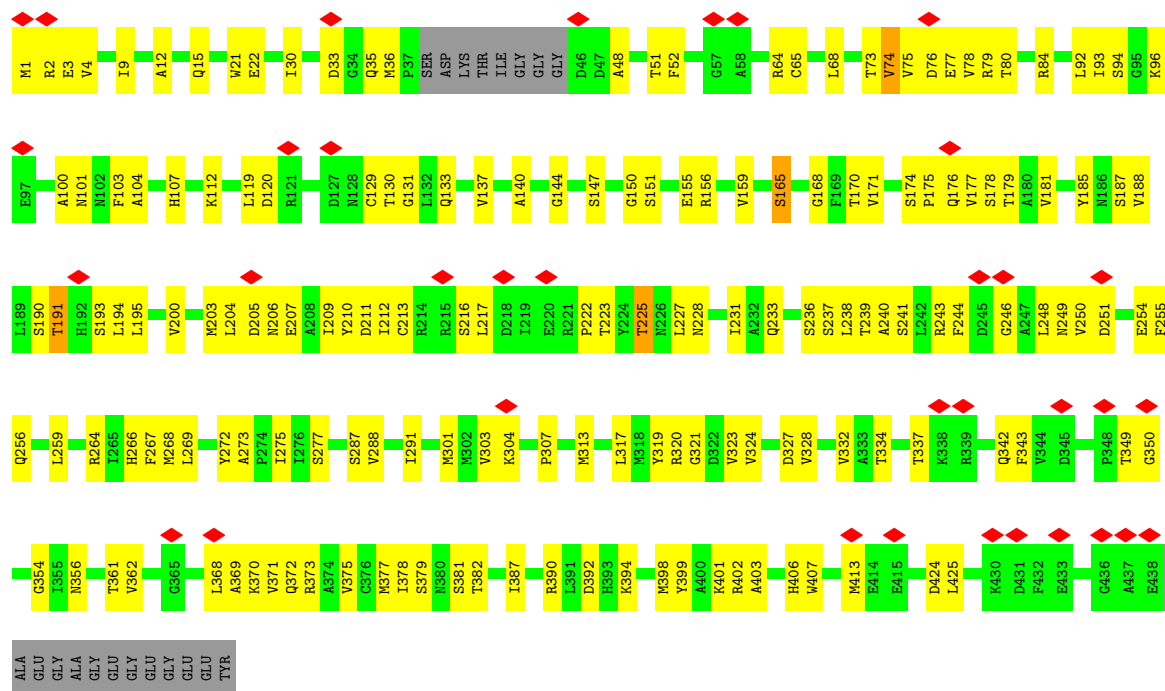


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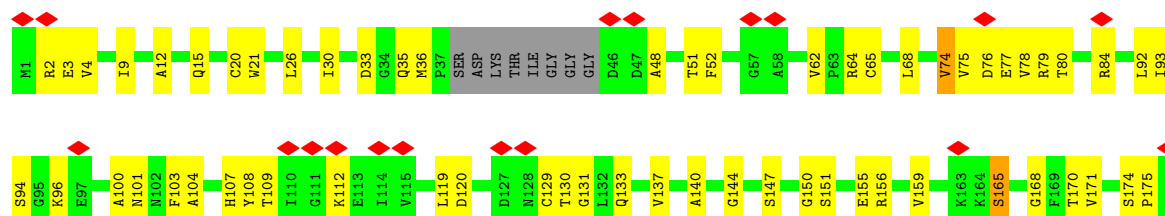


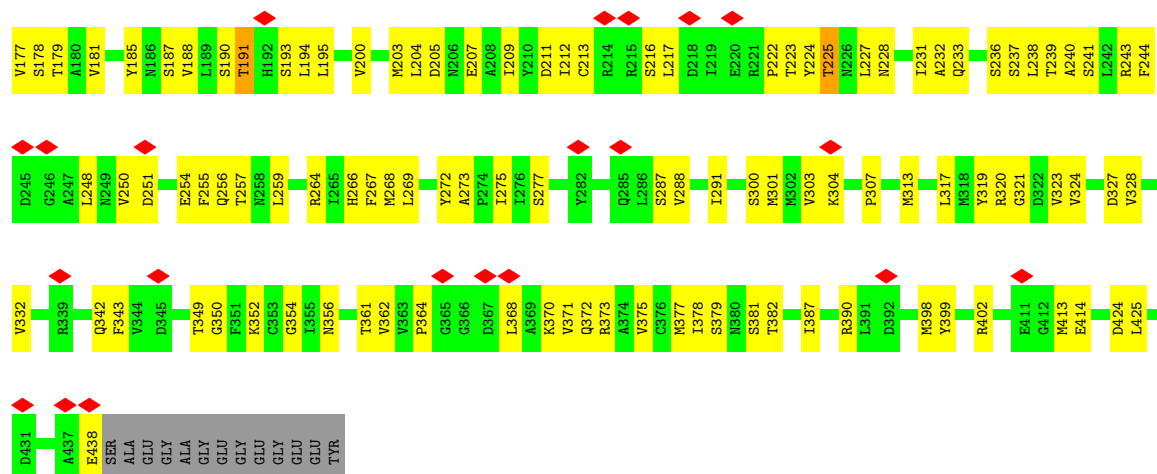


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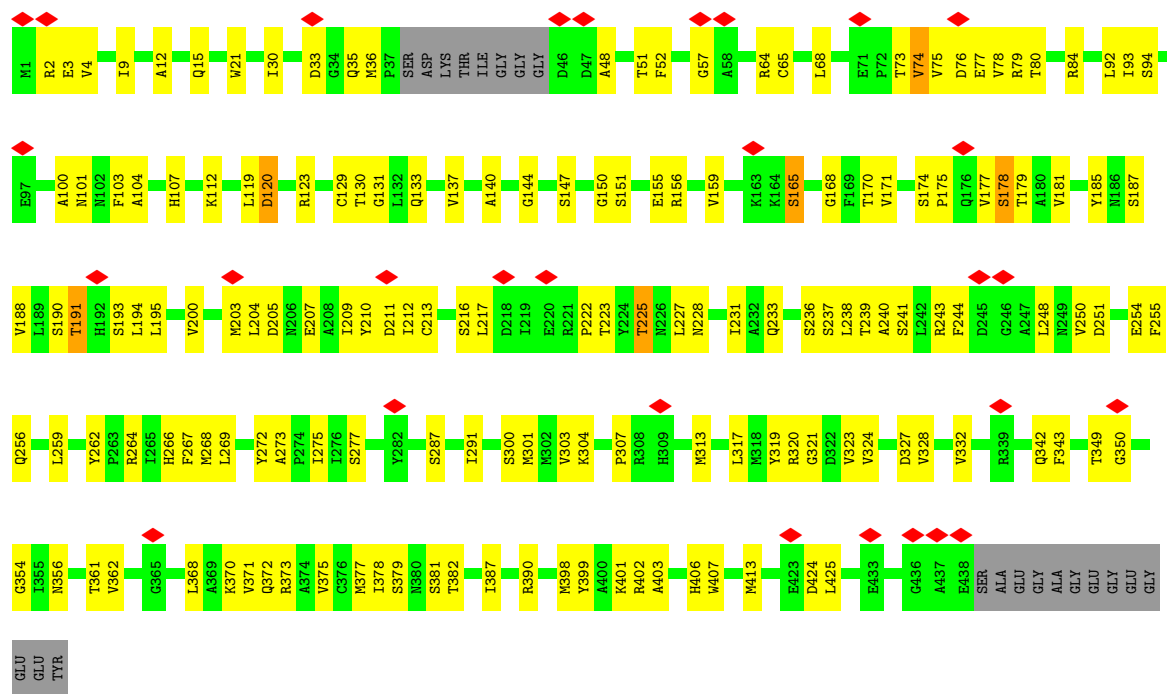


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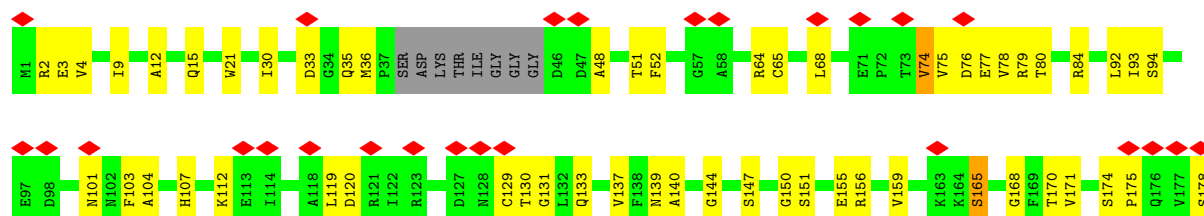


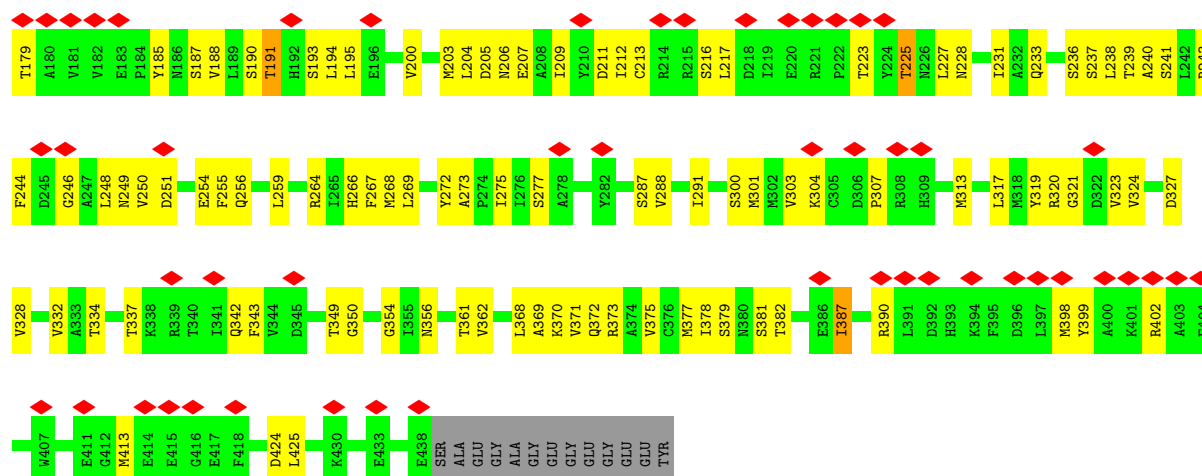


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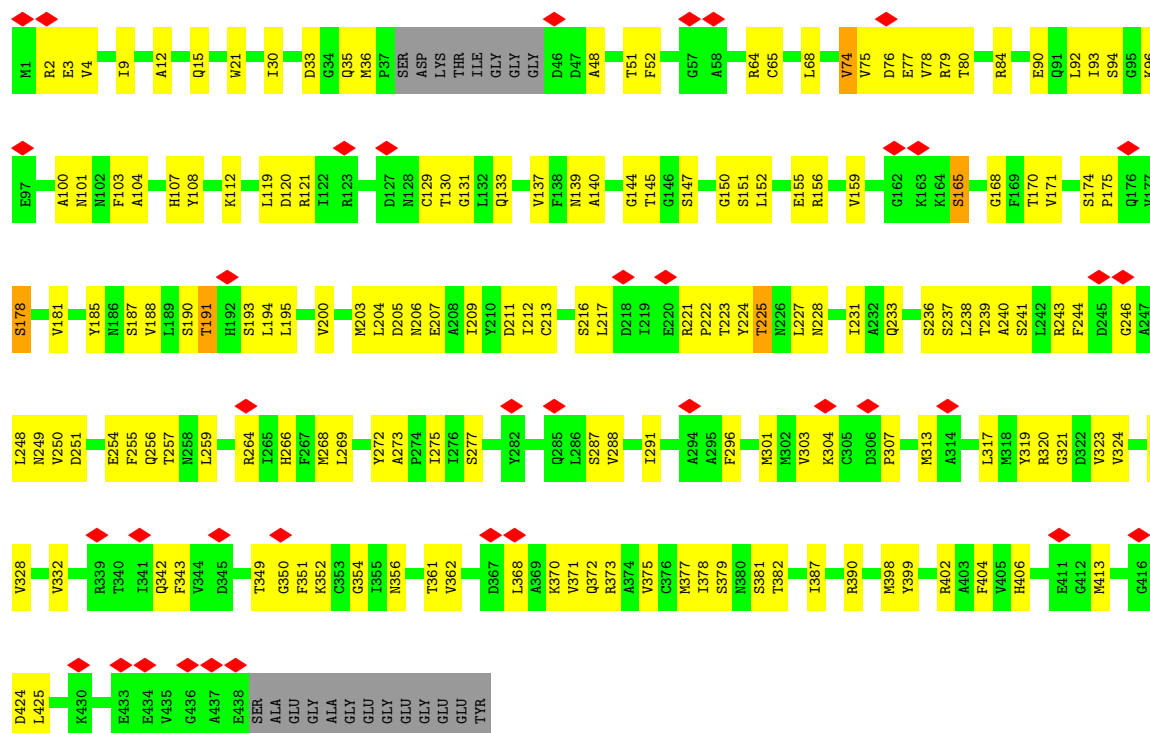


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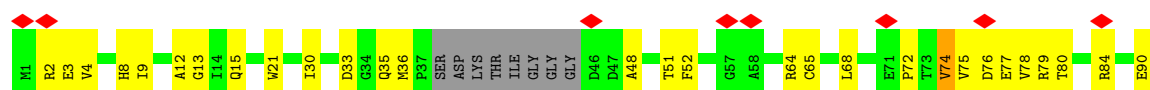


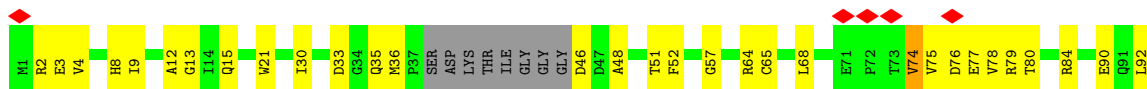


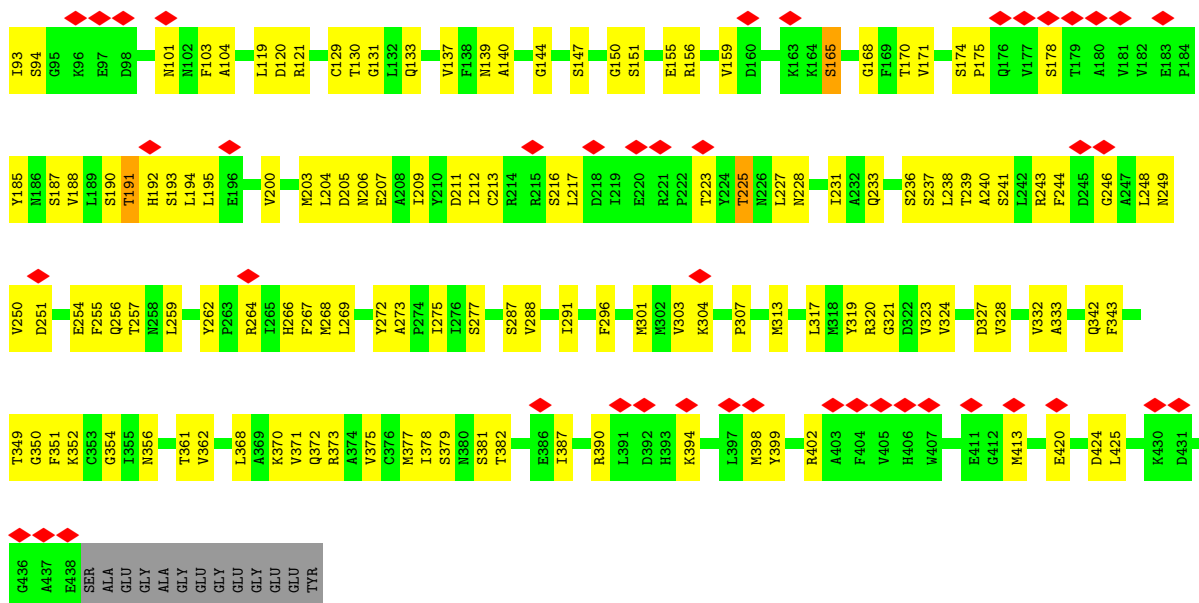
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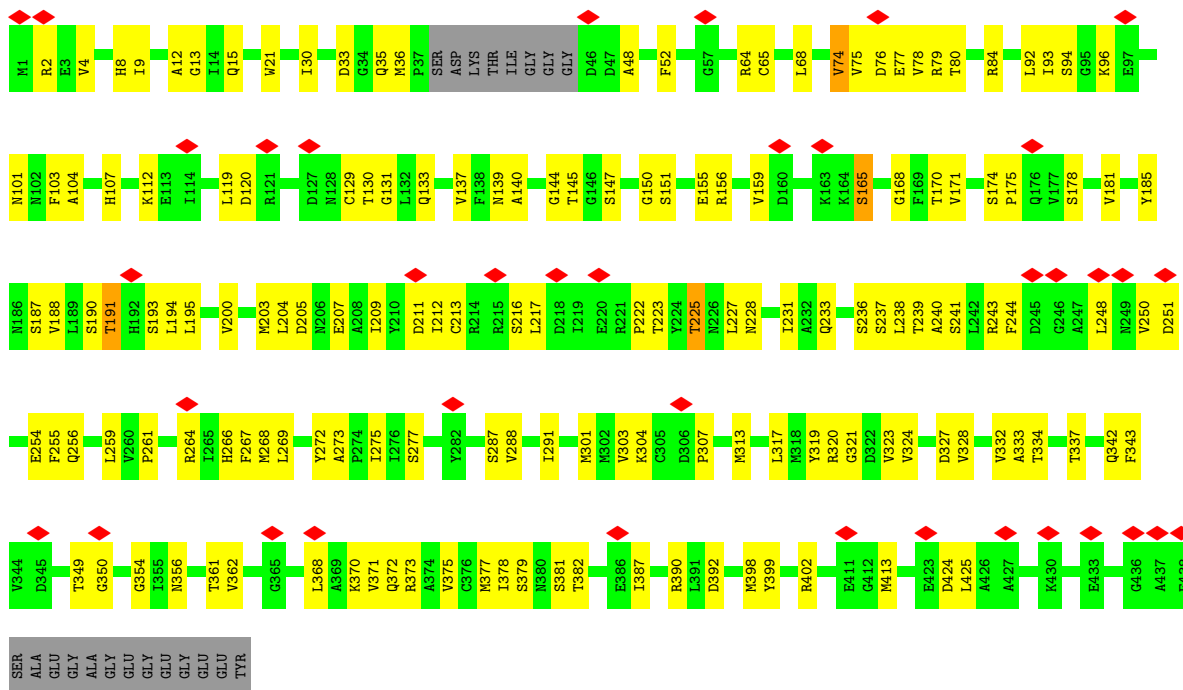
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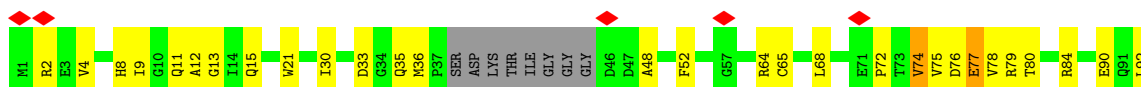


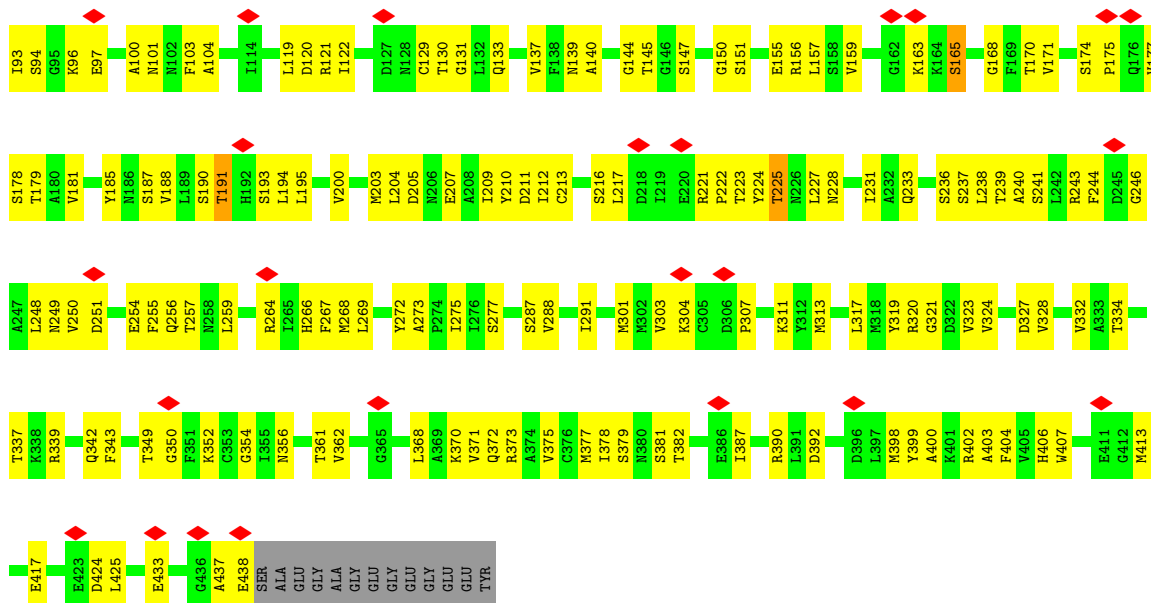


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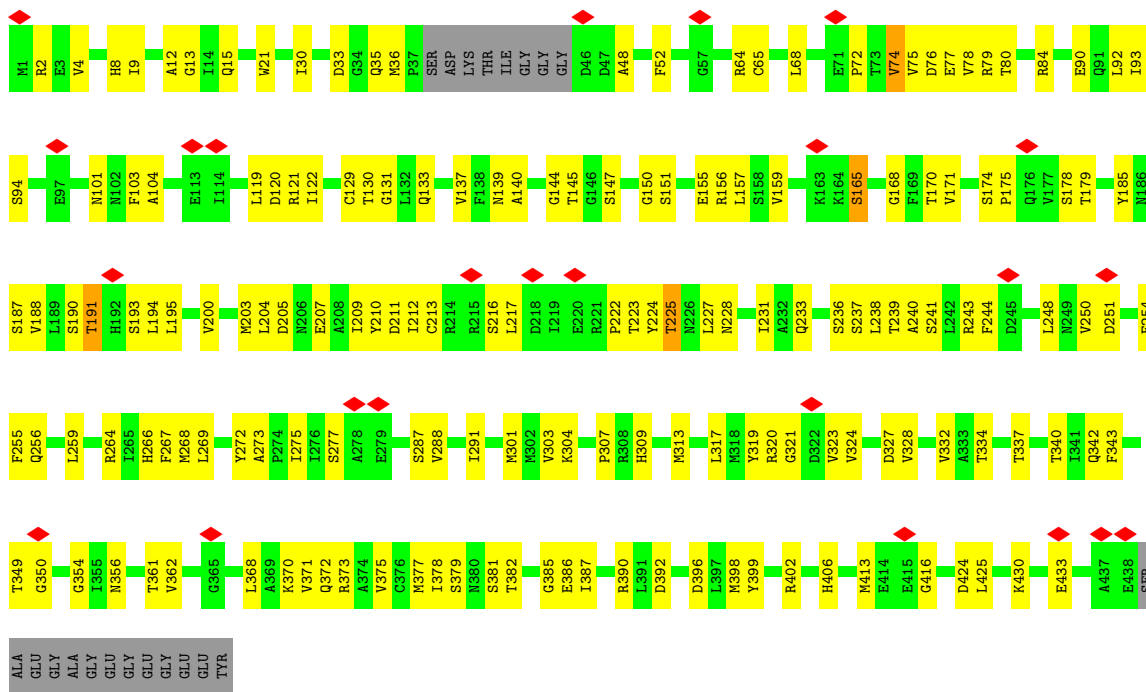


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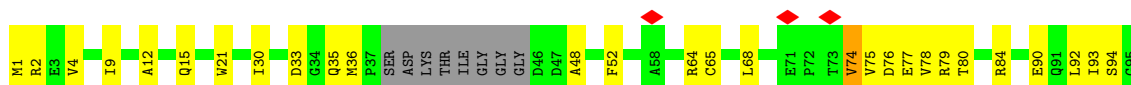


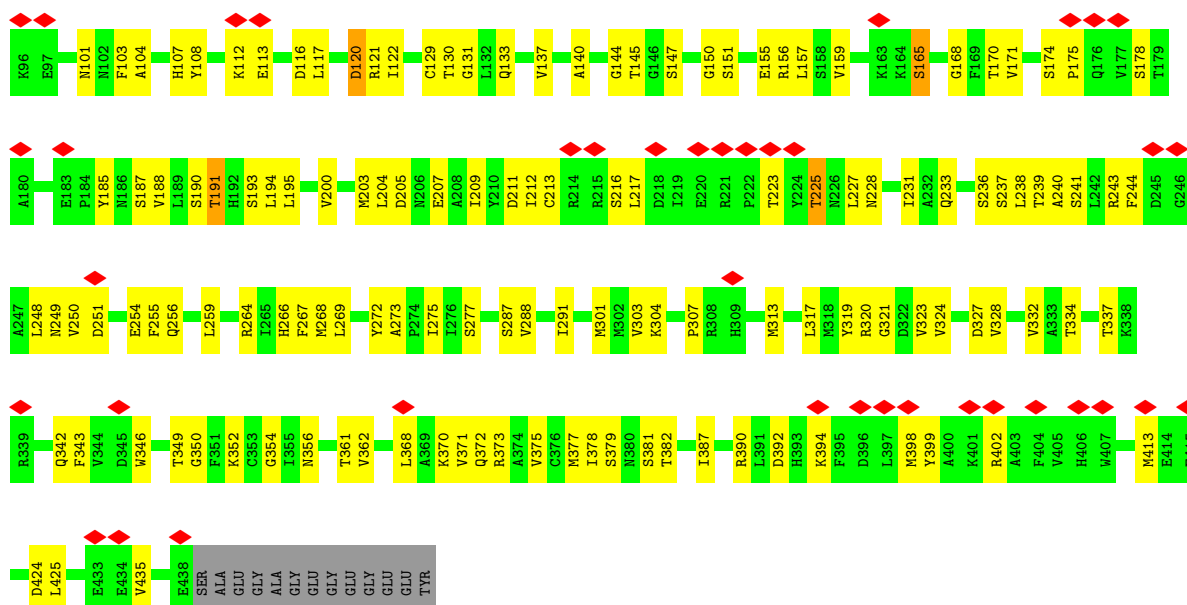


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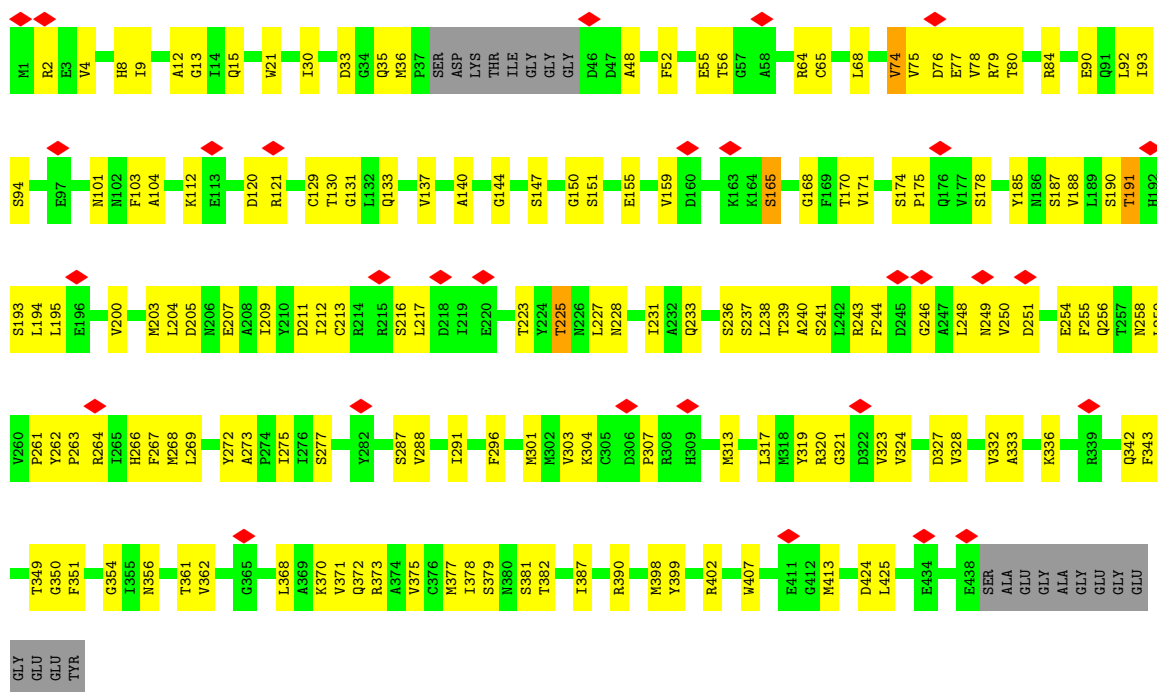


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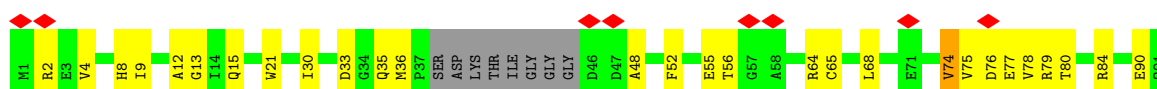


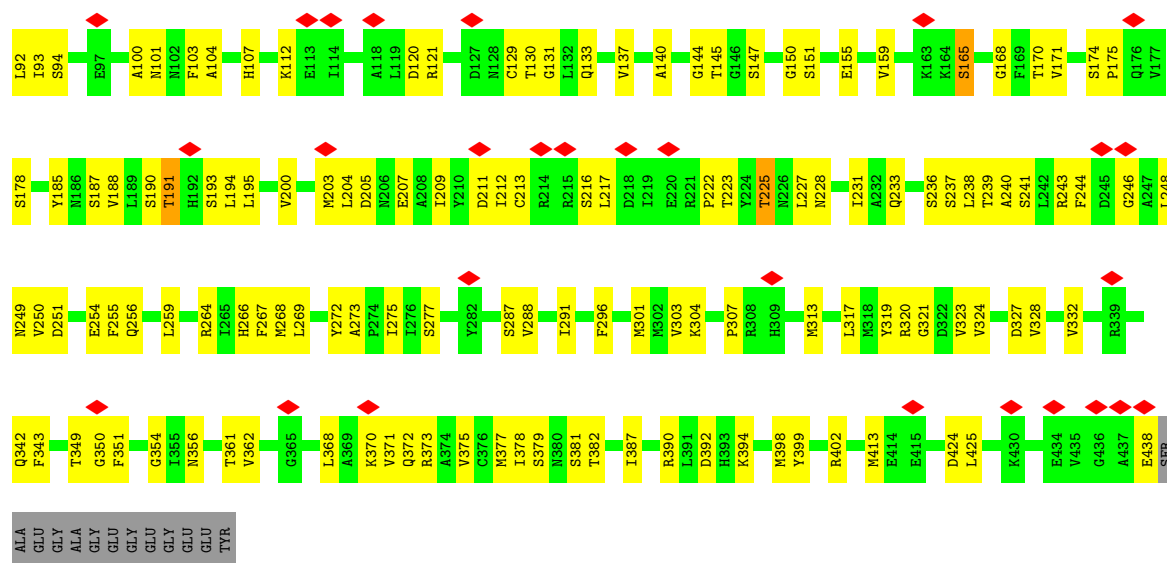


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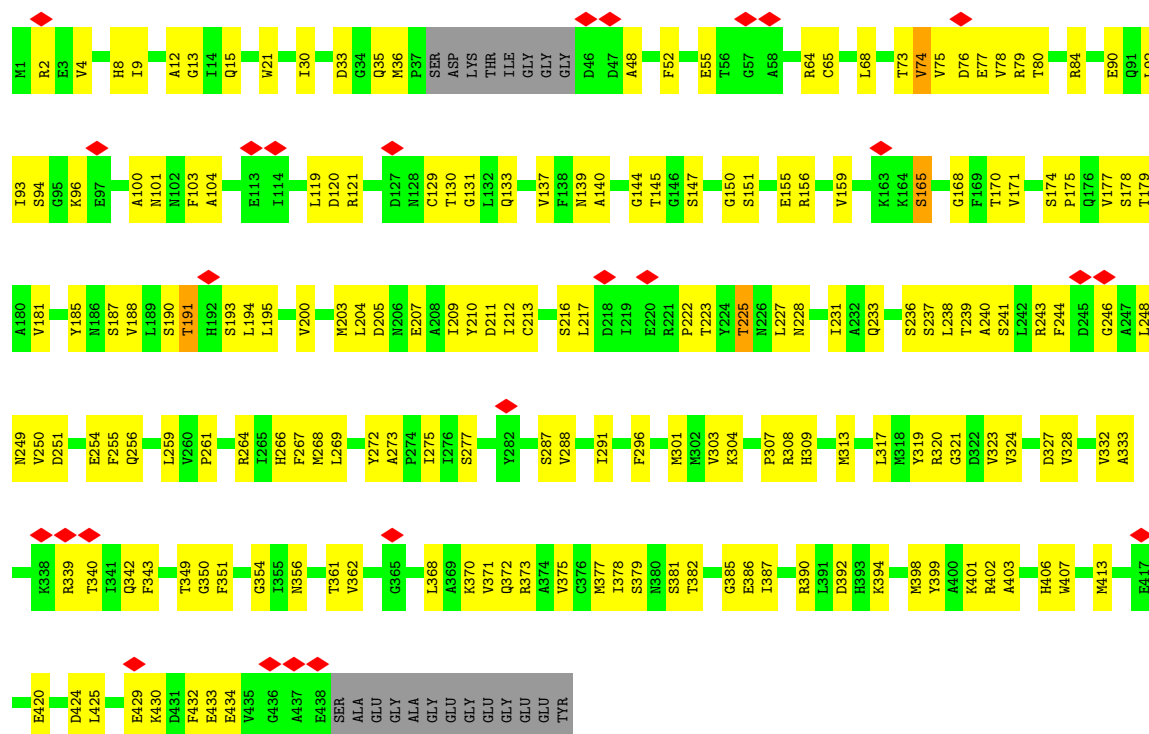


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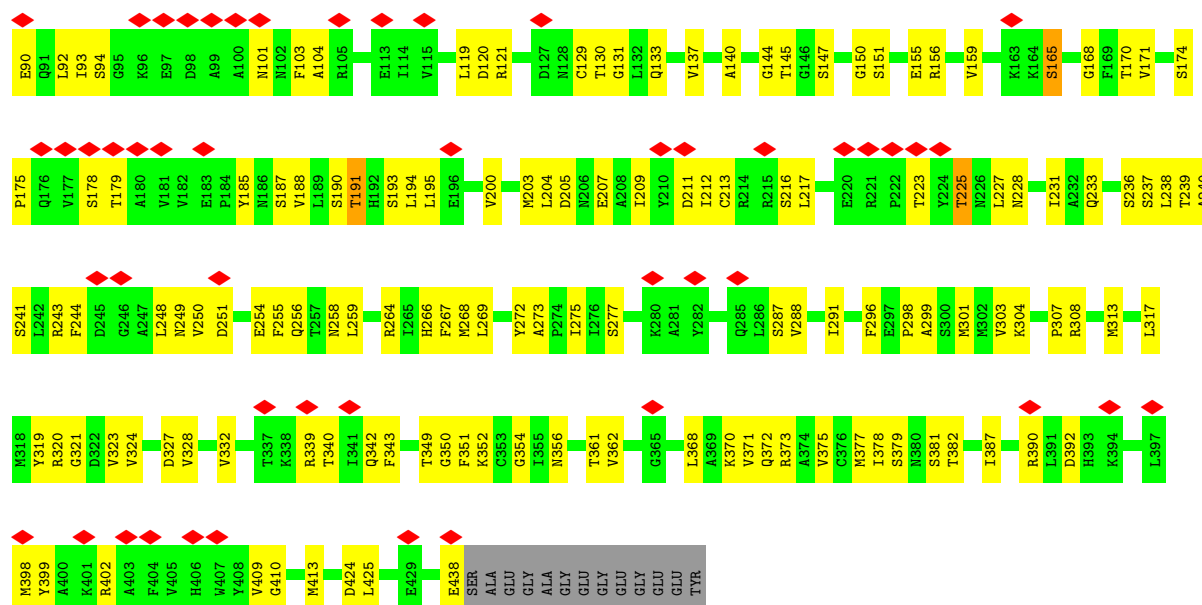


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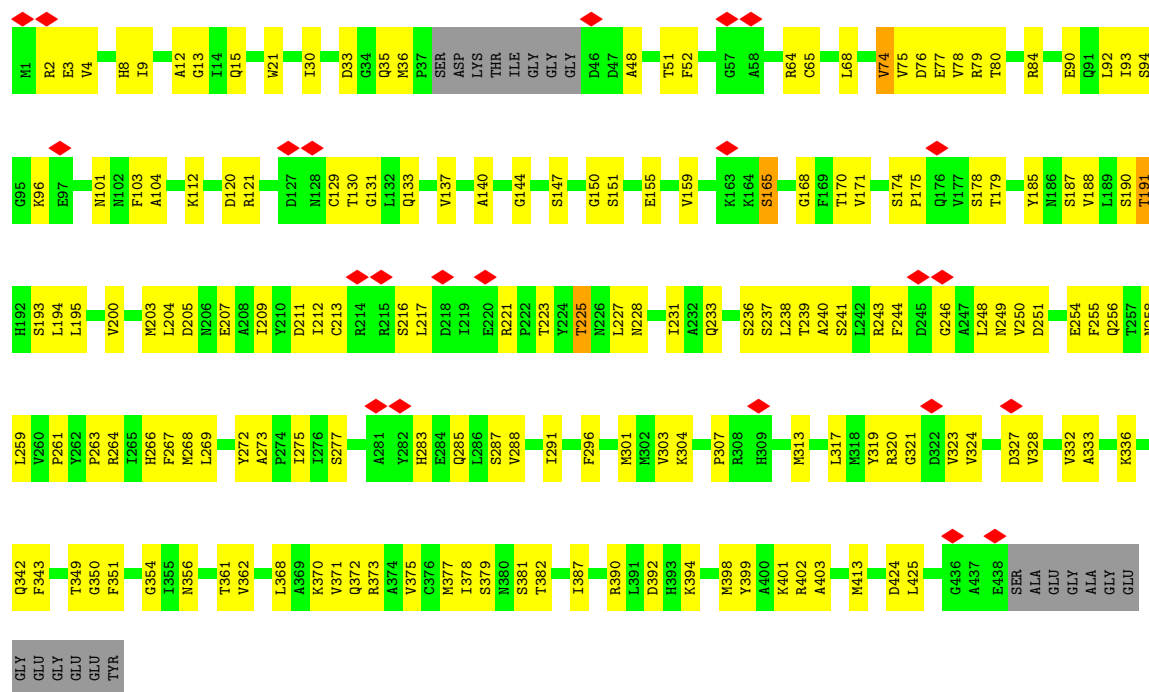


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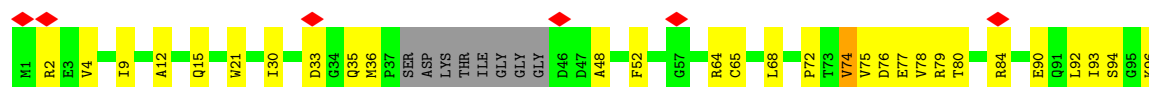


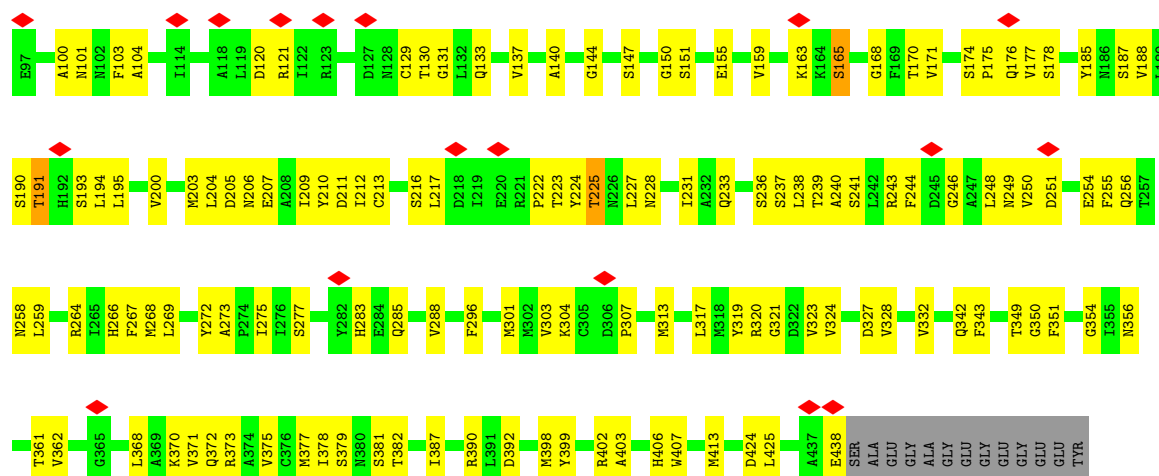


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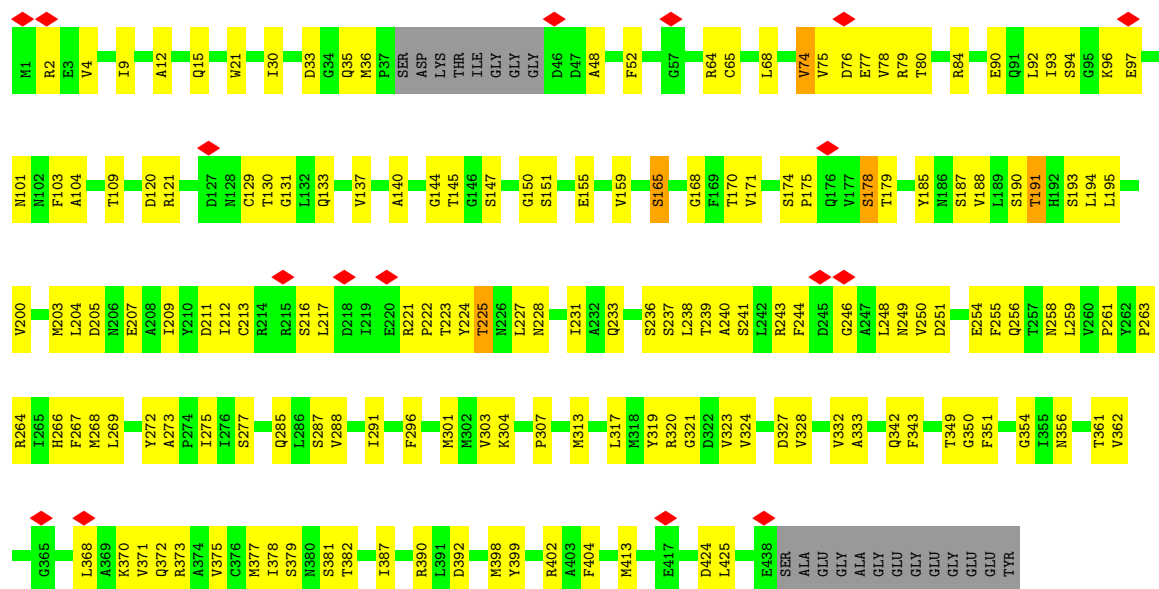


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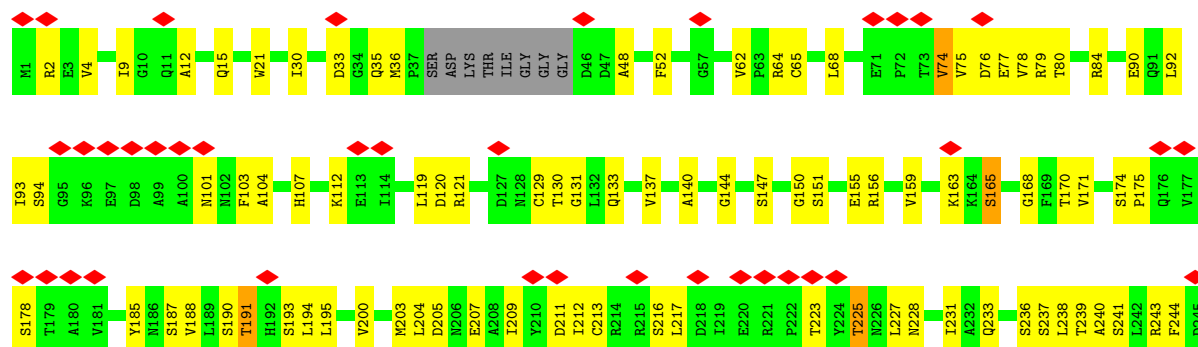


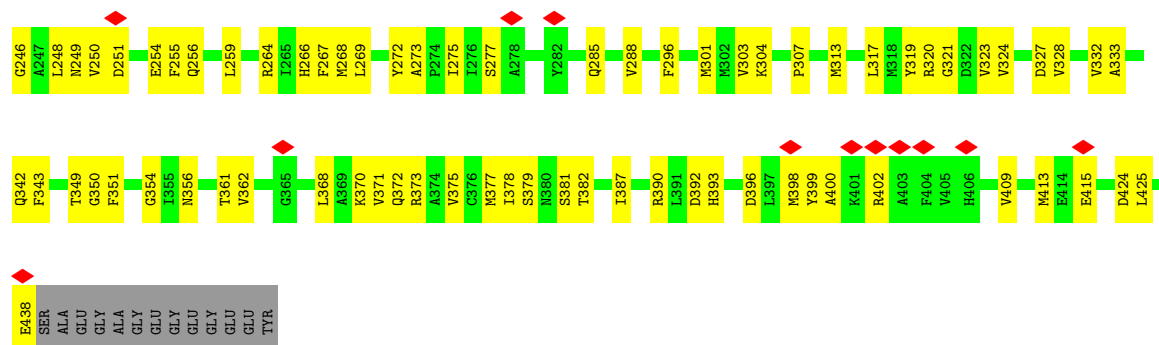


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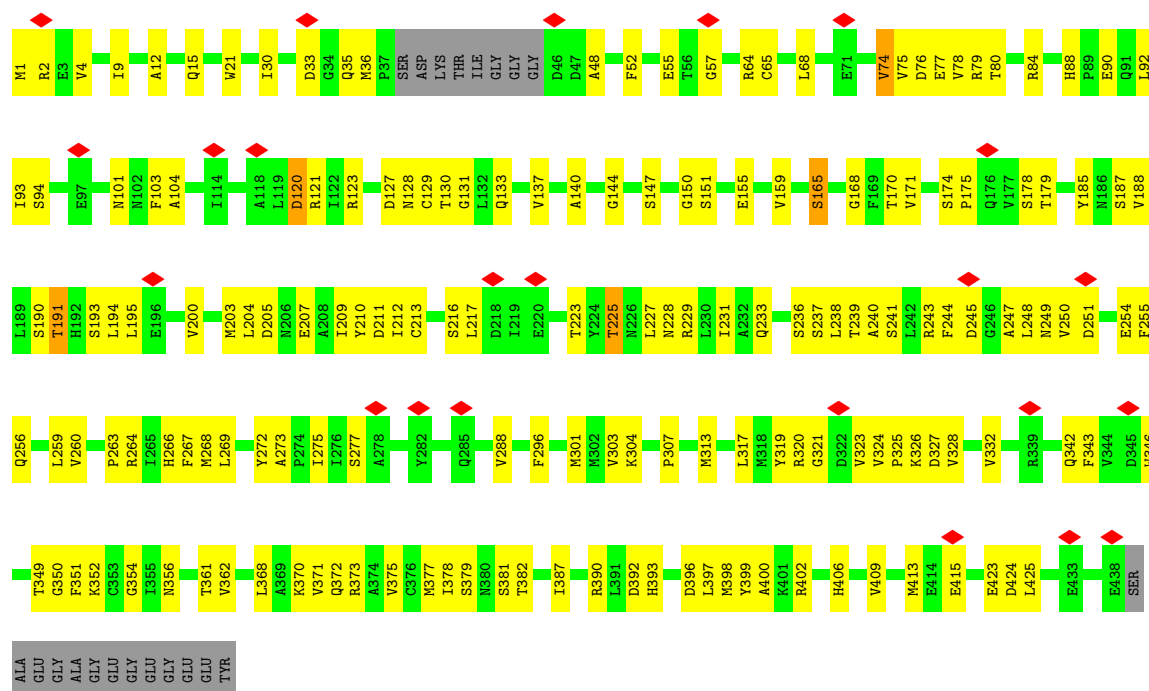


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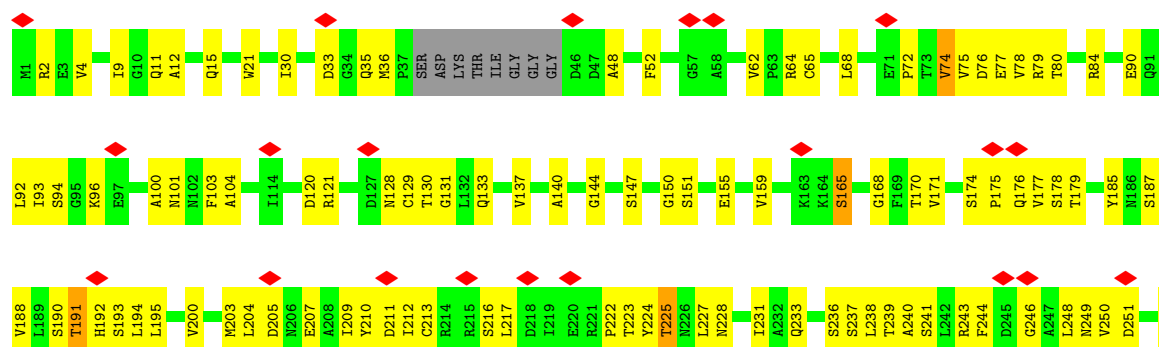


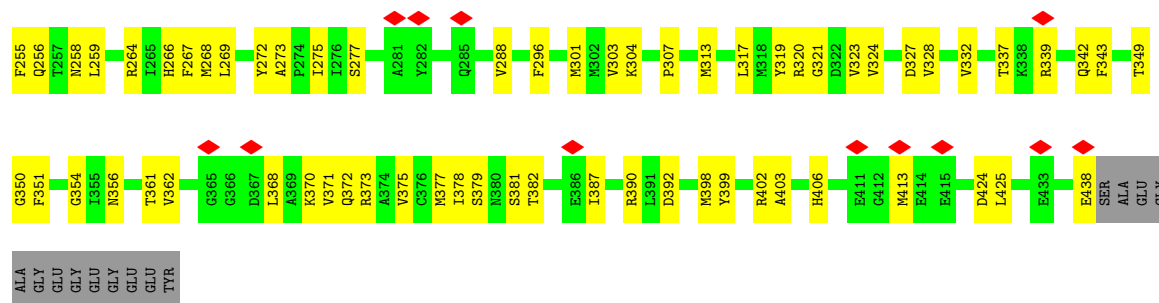


• Molecule 13: Tubulin alpha



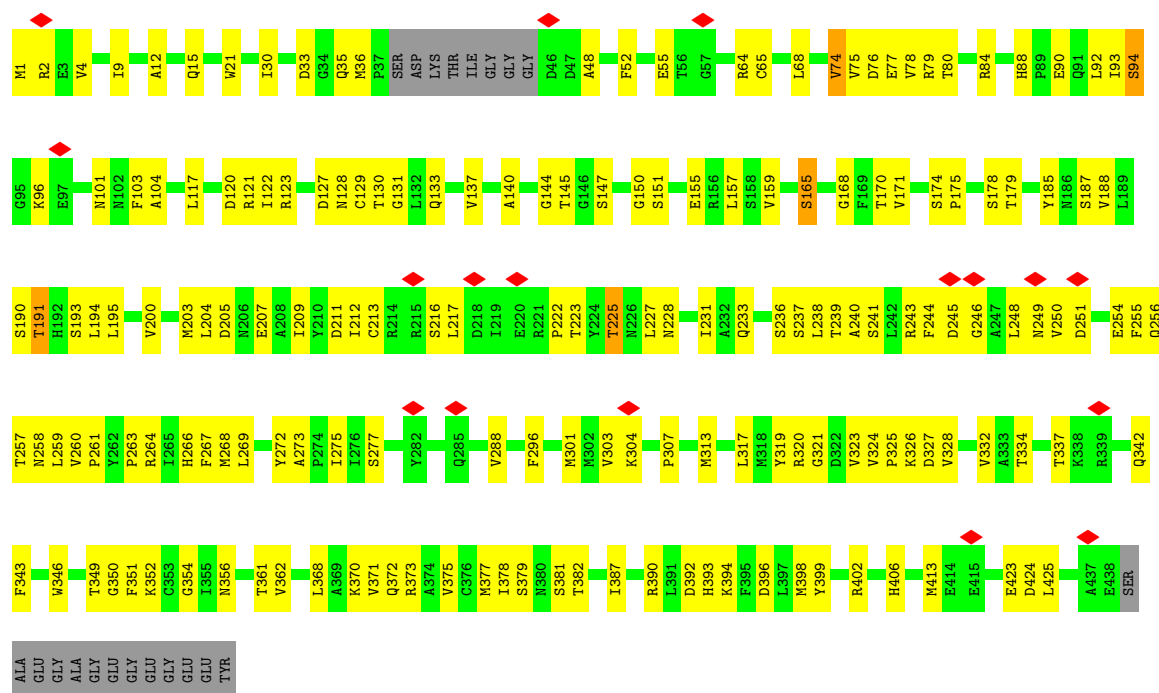
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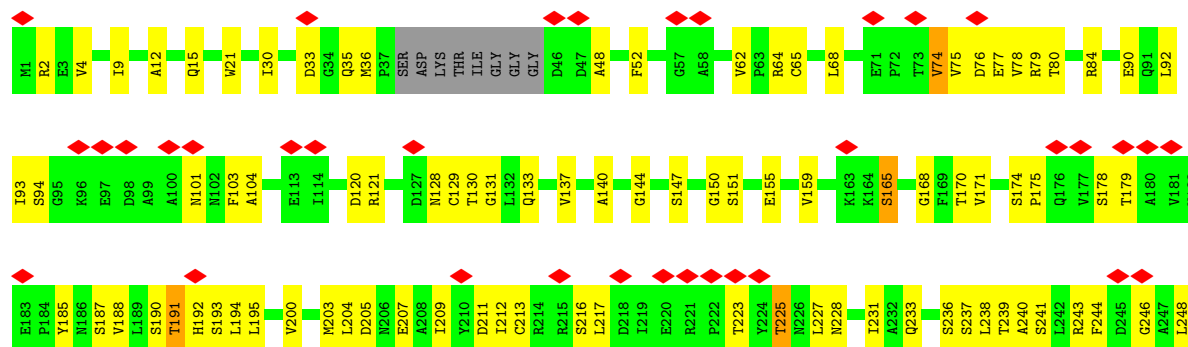
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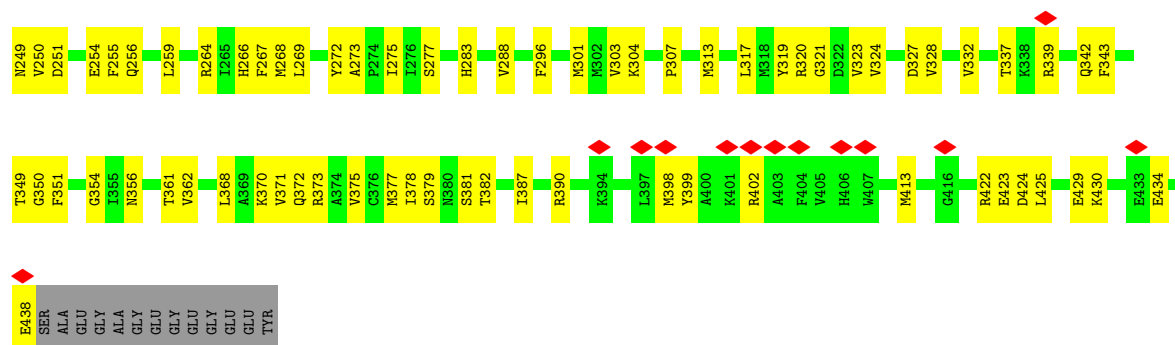
Chain Af: 56% 38% 5%



• Molecule 13: Tubulin alpha

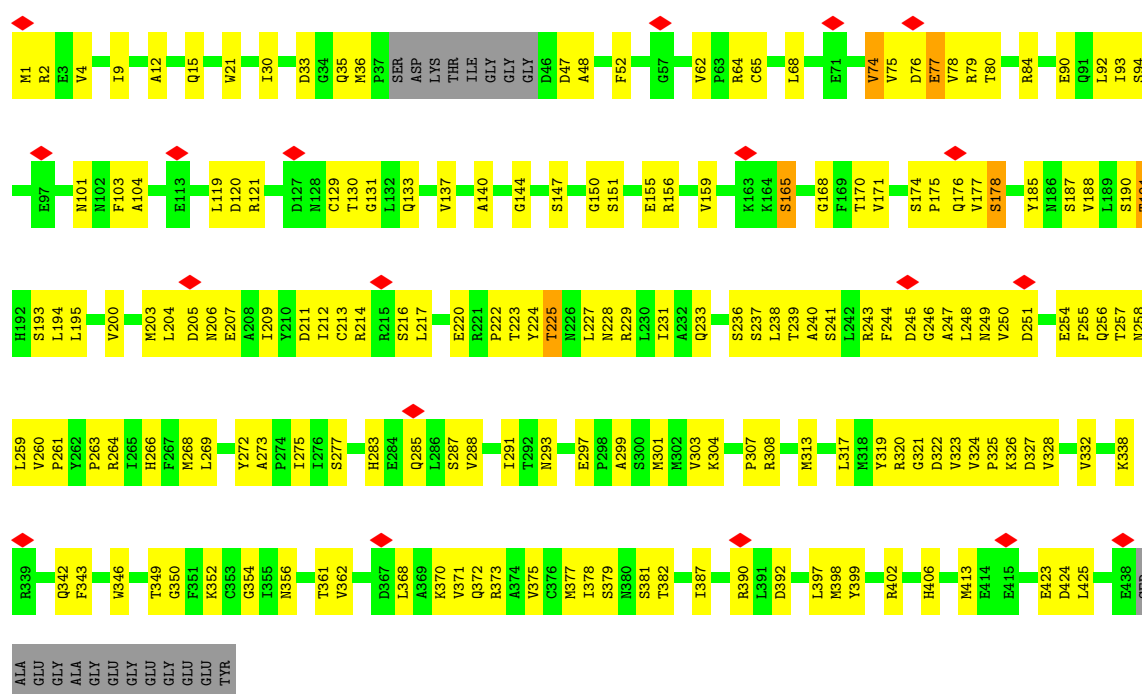
Chain Ah: 11% 60% 34% 5%





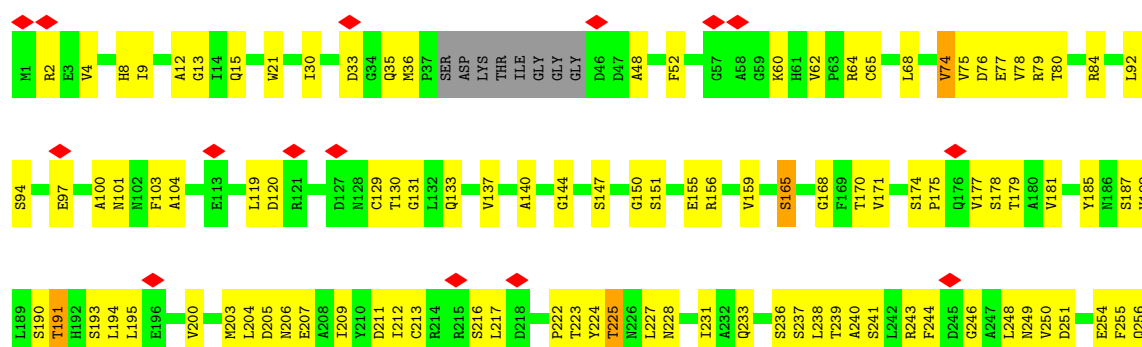
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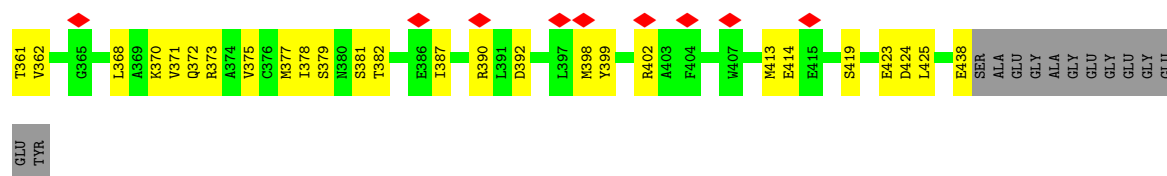
Chain Bb: 55% 39% 5%



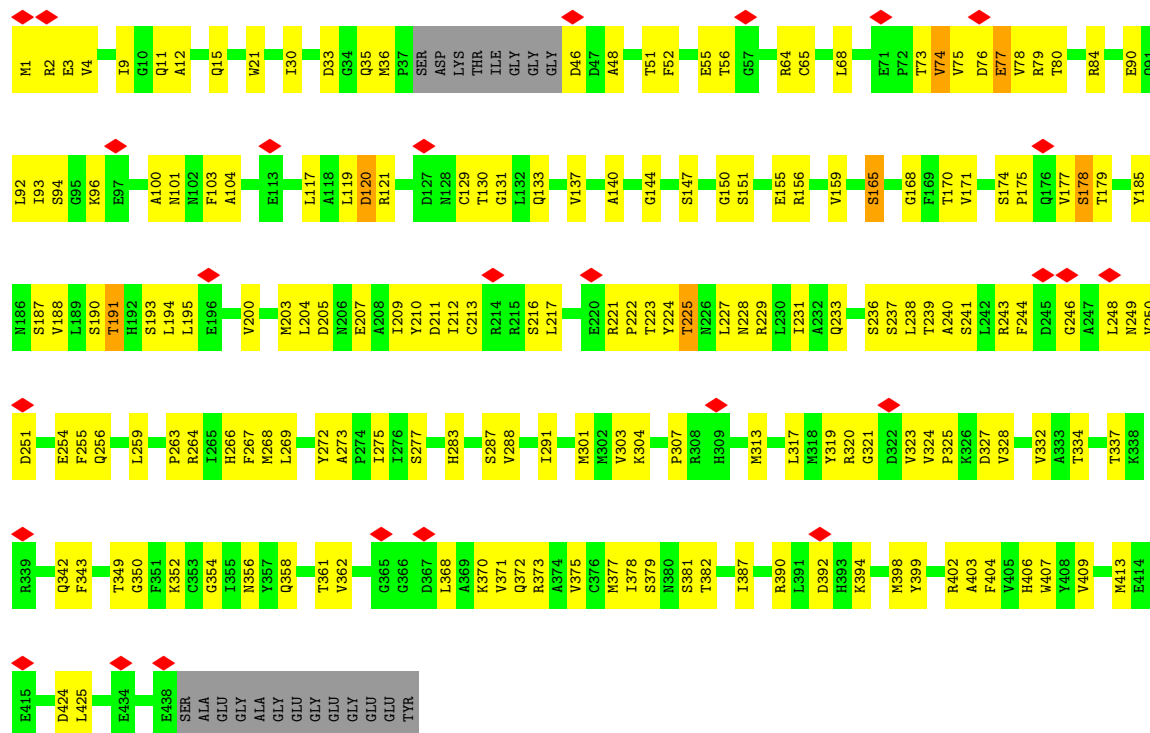
• Molecule 13: Tubulin alpha

Chain Bd: 59% 36% 5%

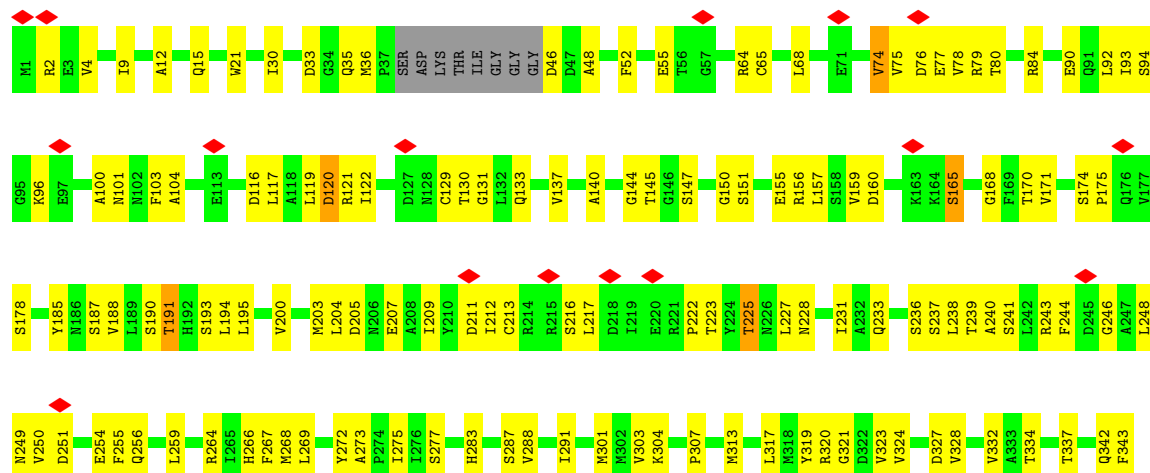


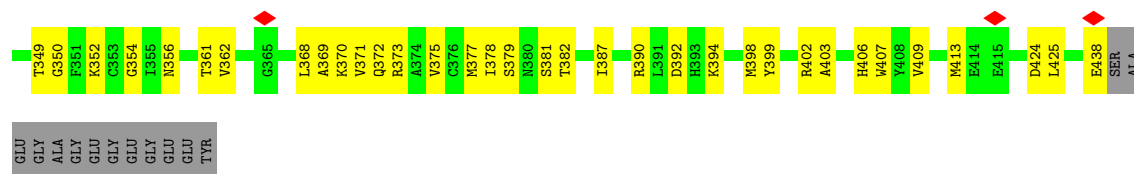


• Molecule 13: Tubulin alpha

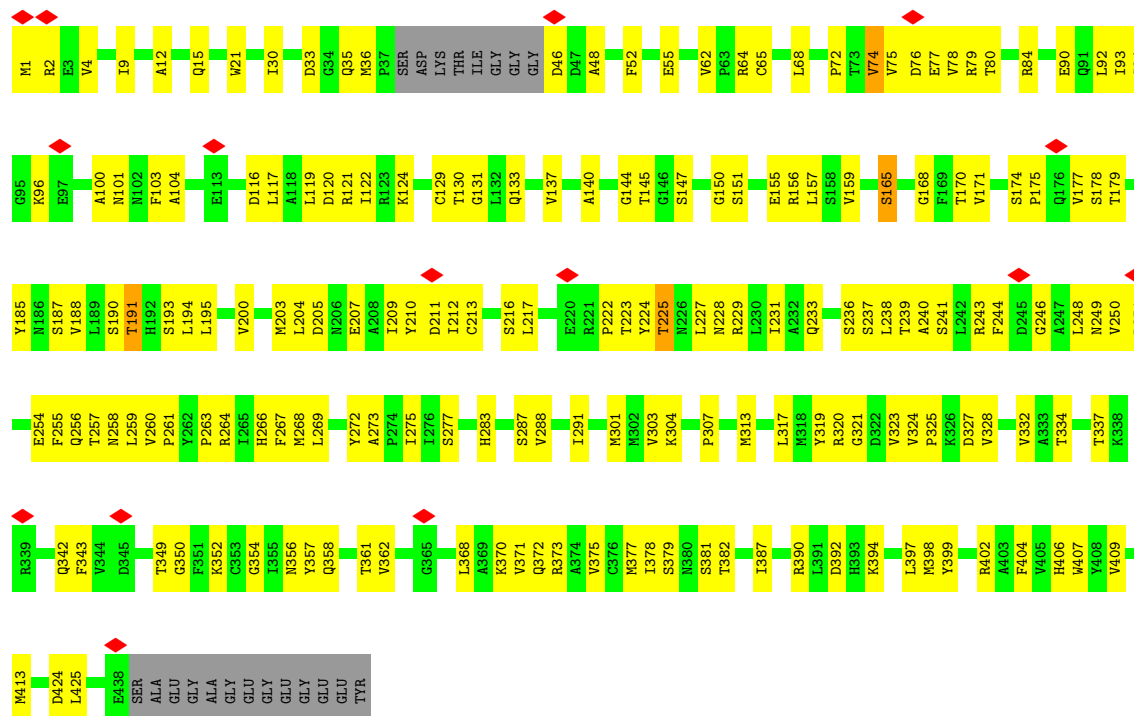


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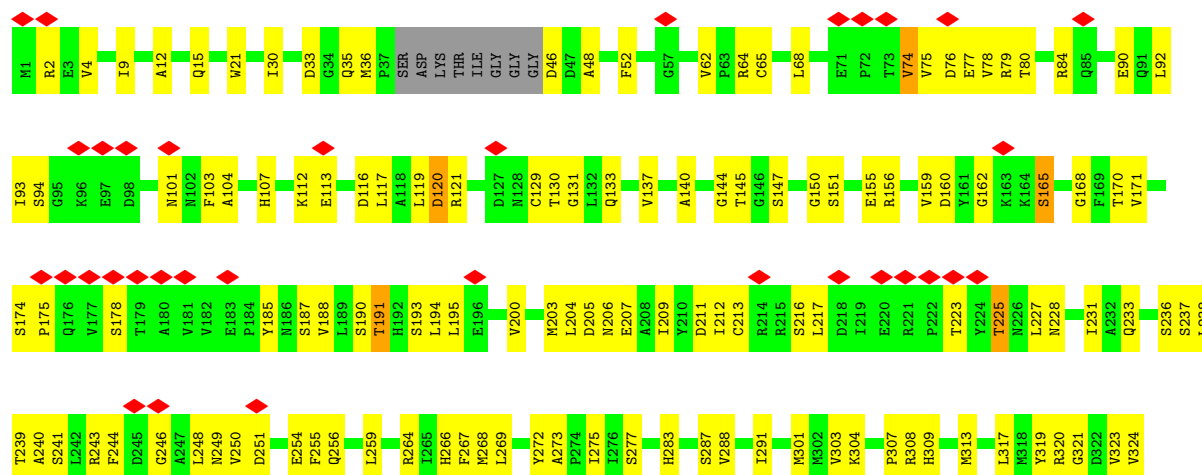


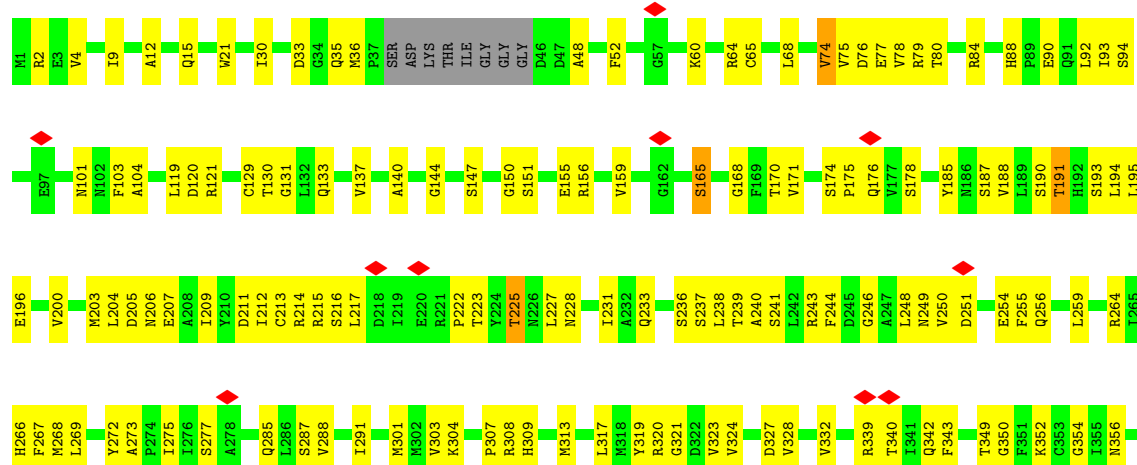


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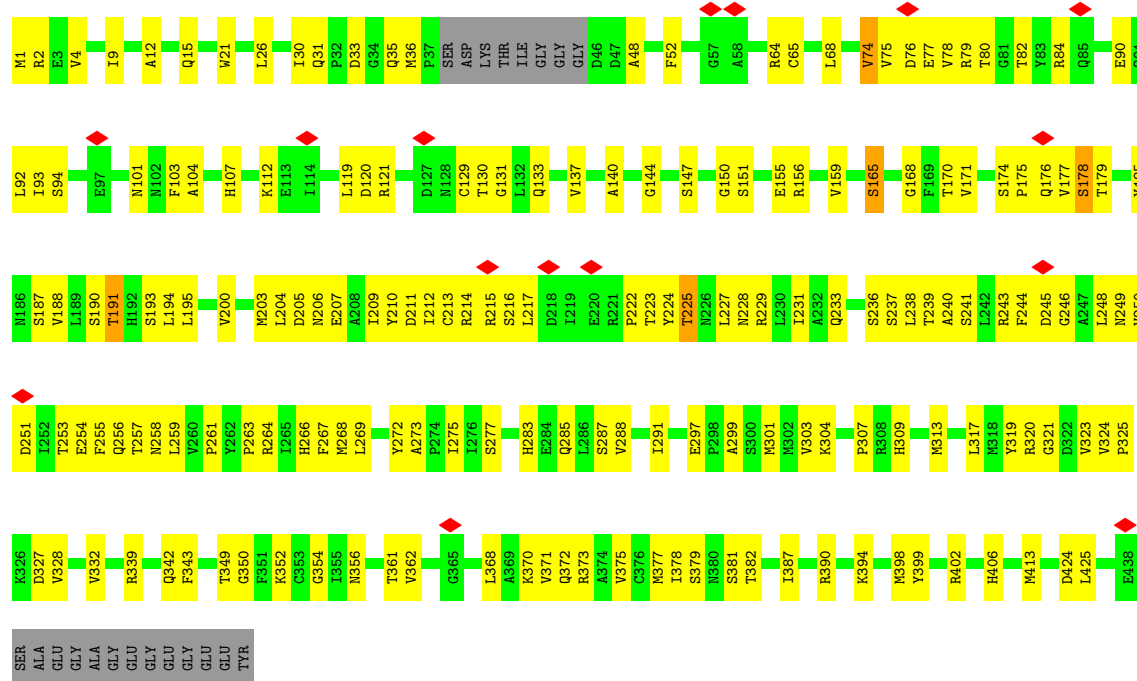
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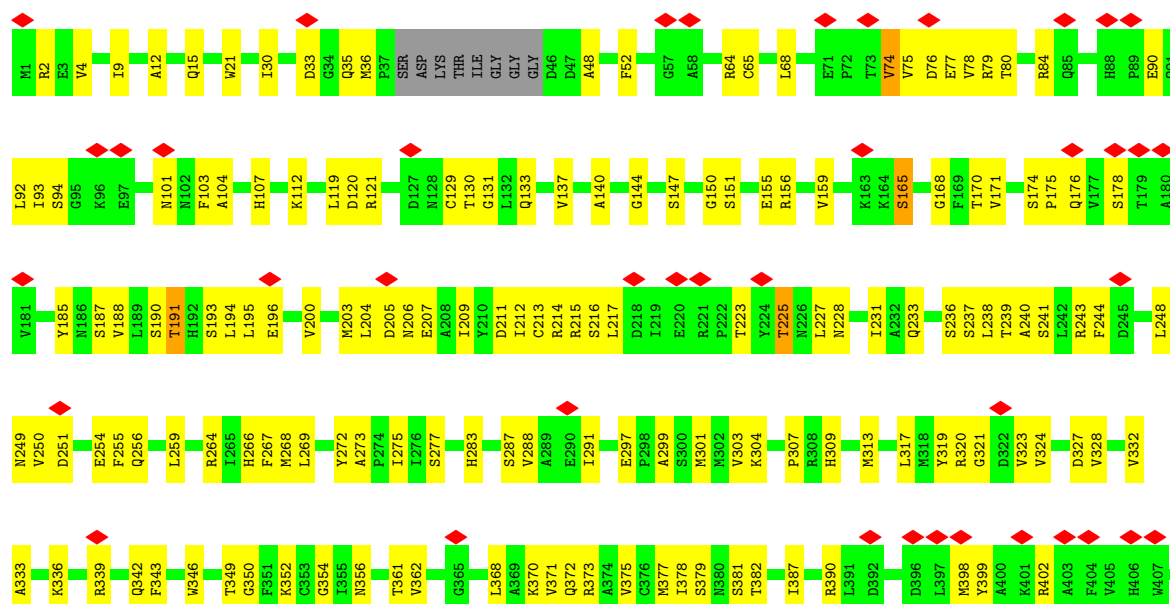


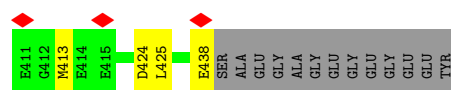


• Molecule 13: Tubulin alpha

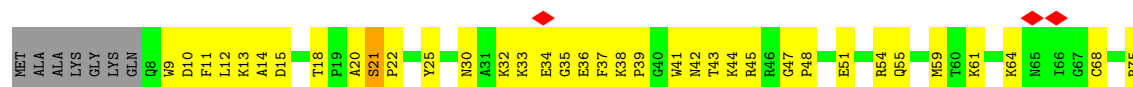


• Molecule 13: Tubulin alpha

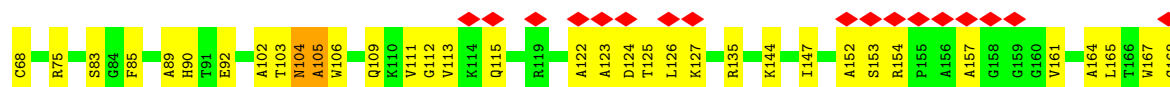
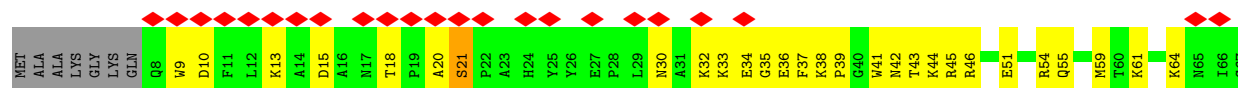




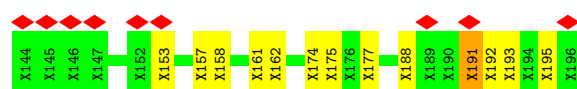
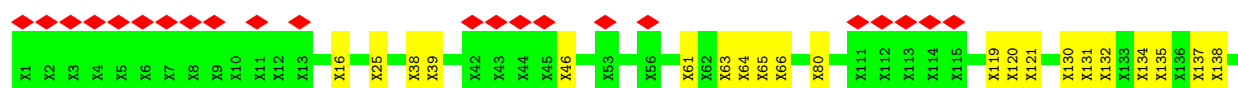
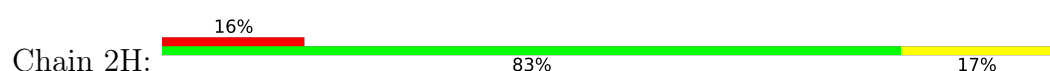
- Molecule 14: FAP275



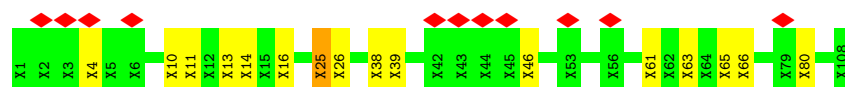
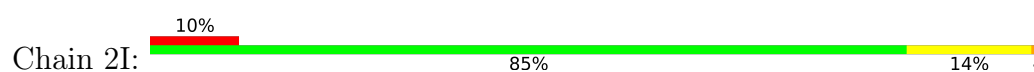
- Molecule 14: FAP275



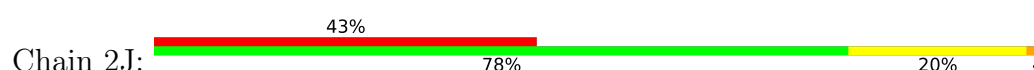
- Molecule 15: Unknown protein

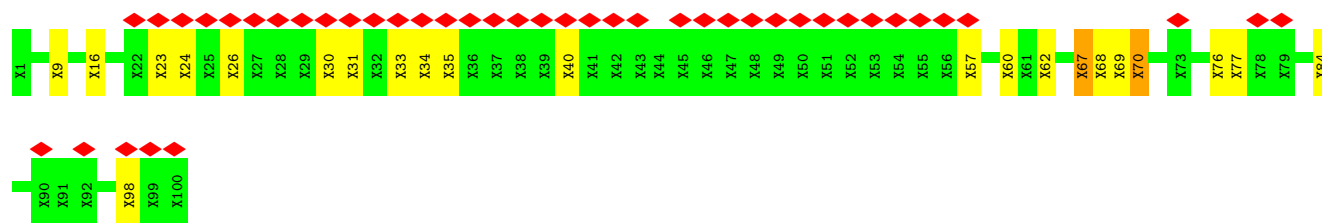


- Molecule 16: Unknown protein

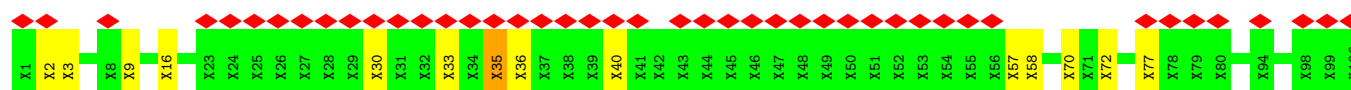
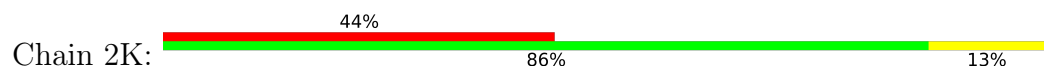


- Molecule 17: Unknown protein

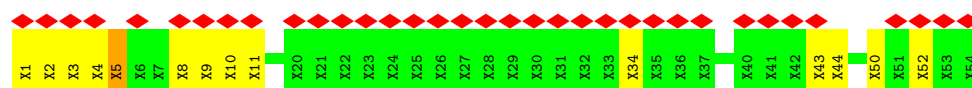
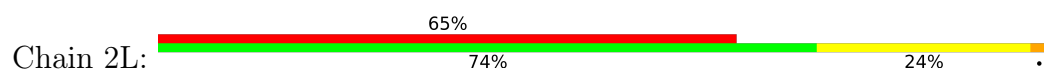




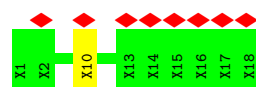
- Molecule 17: Unknown protein



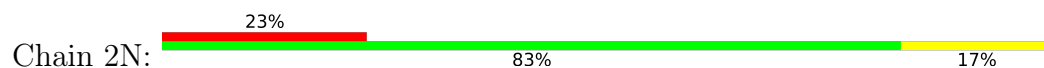
- Molecule 18: Unknown protein



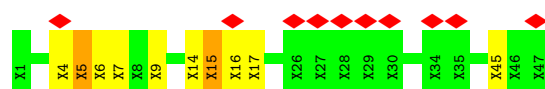
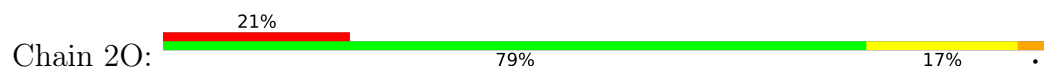
- Molecule 19: Unknown protein



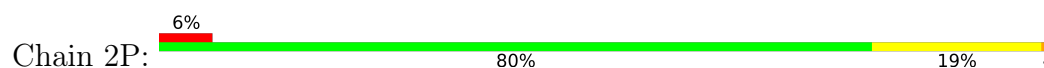
- Molecule 20: Unknown protein

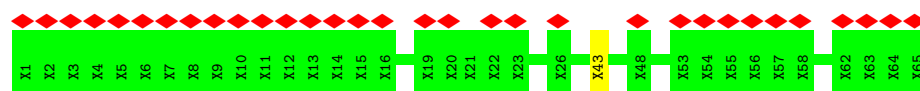


- Molecule 21: Unknown protein



- Molecule 22: Unknown protein



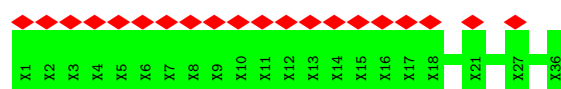


- Molecule 27: Unknown protein

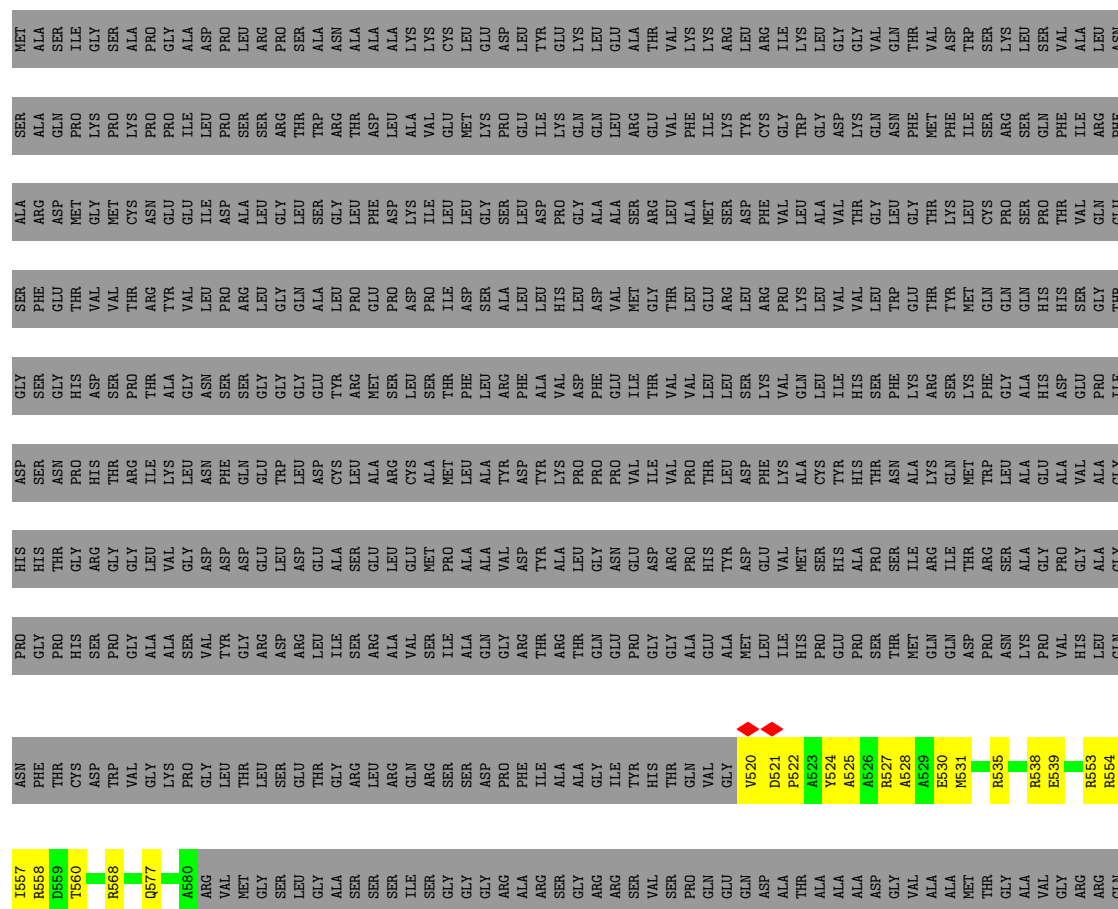


There are no outlier residues recorded for this chain.

- Molecule 27: Unknown protein

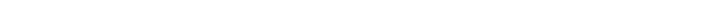


- Molecule 28: FAP216

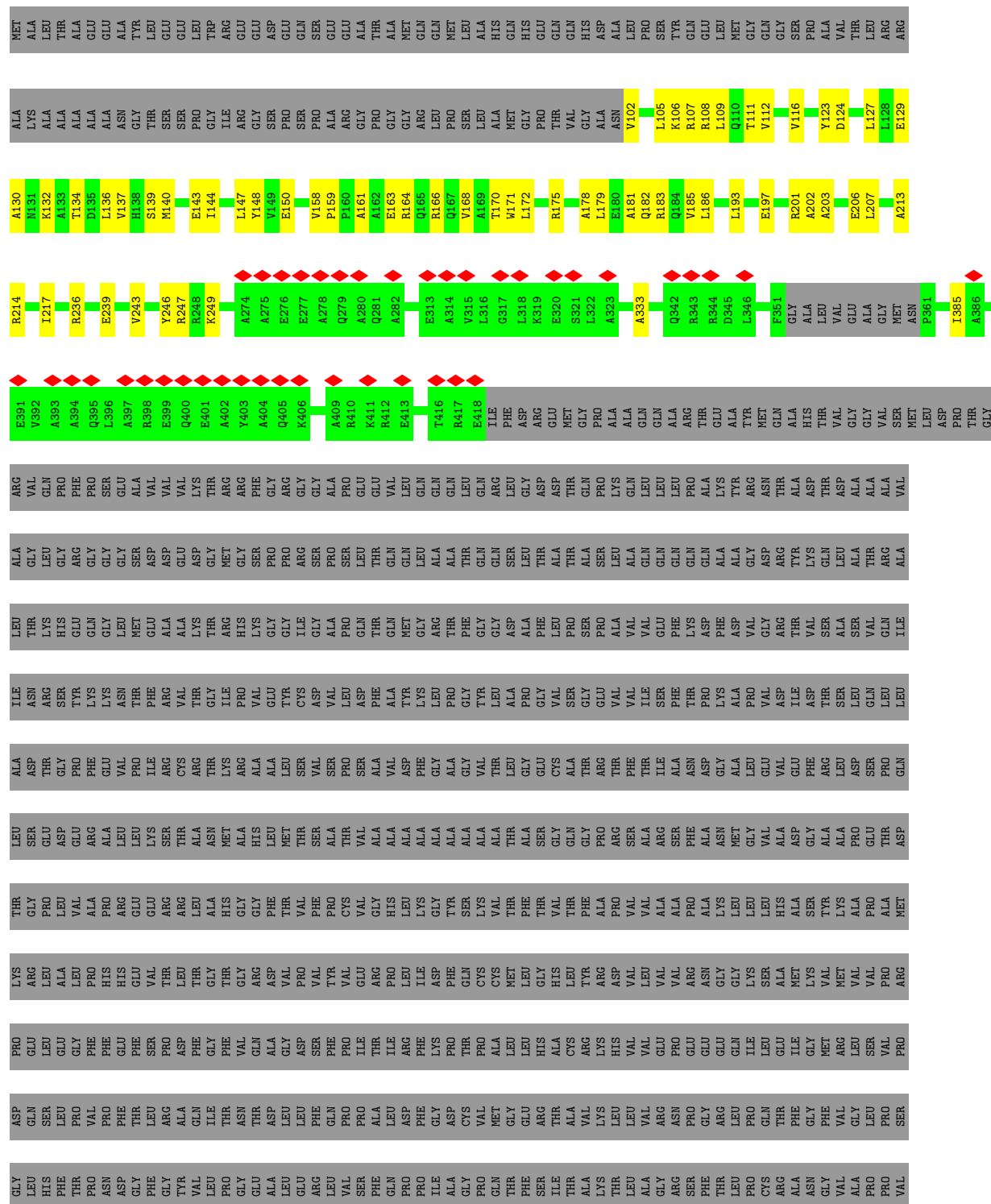


[illegible]

- Molecule 29: FAP92

Chain 3E:  94%

[illegible]

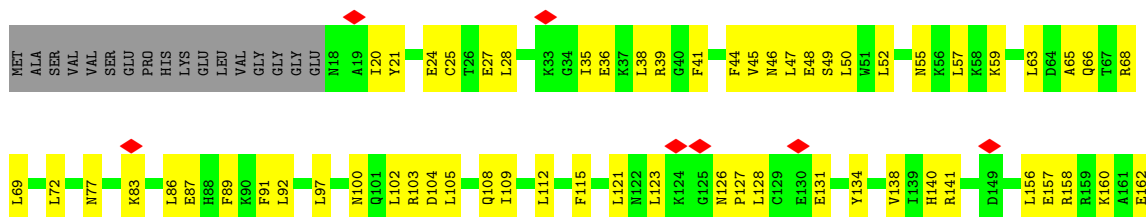
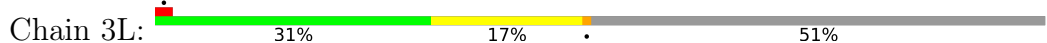


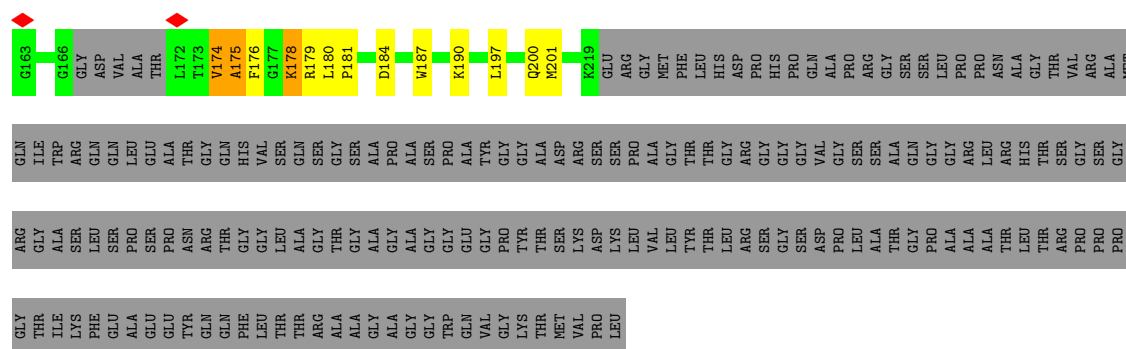




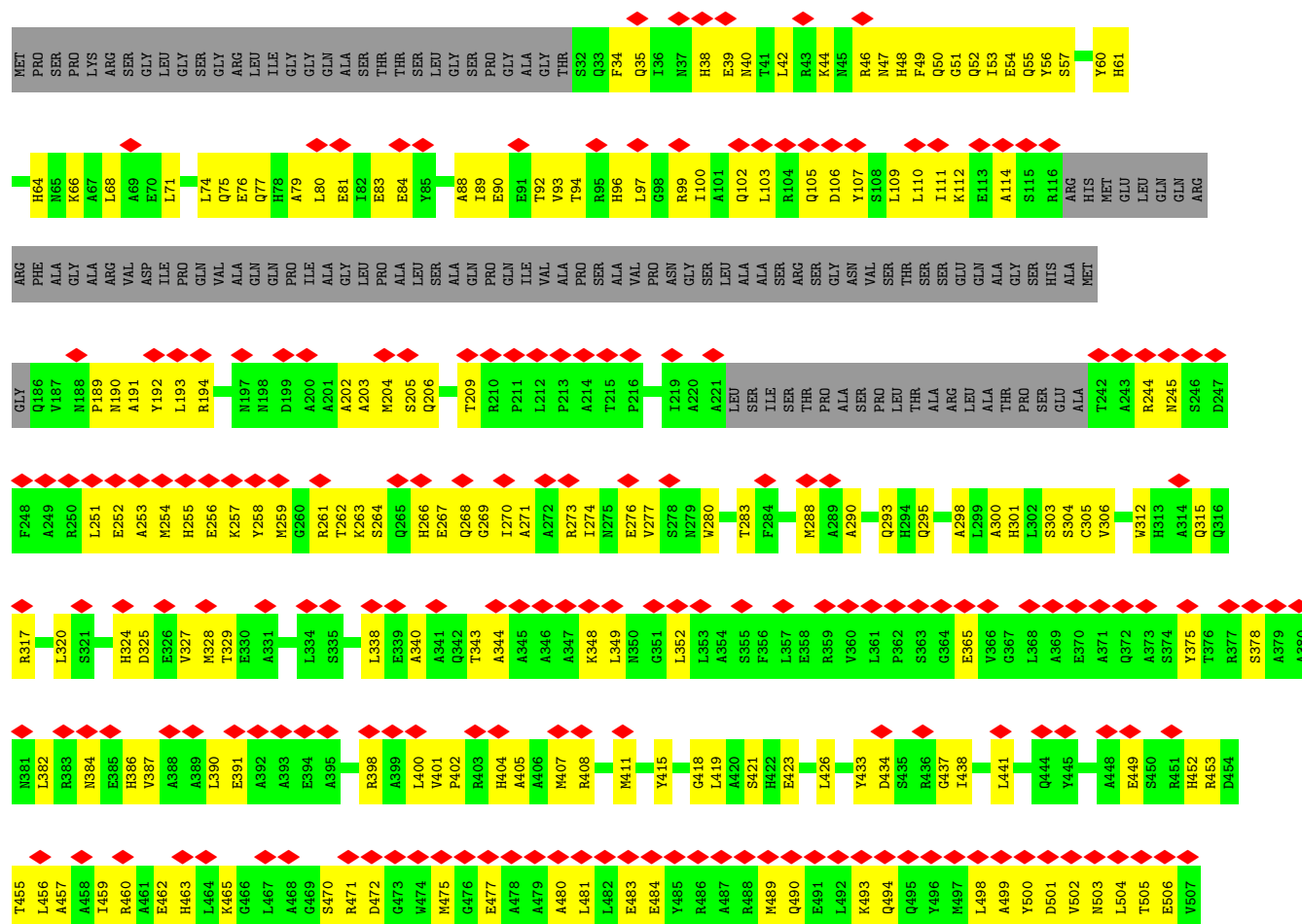


Chain 3K:

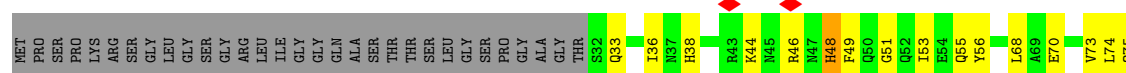




• Molecule 34: FAP7

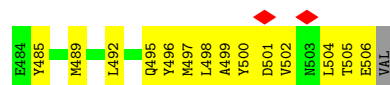
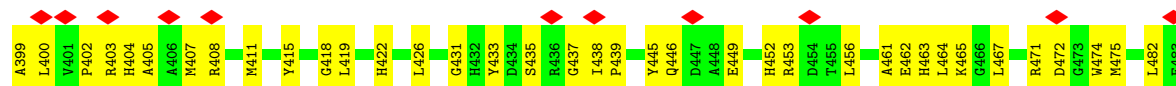
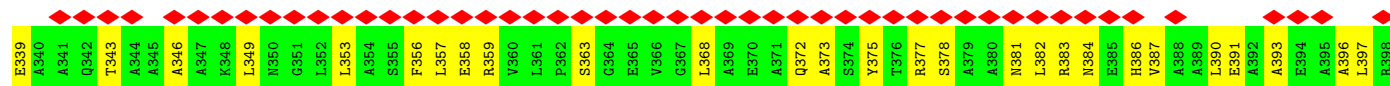
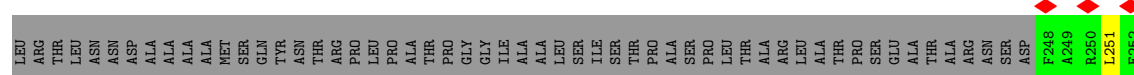
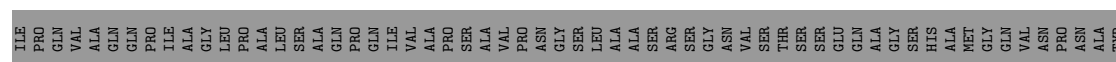
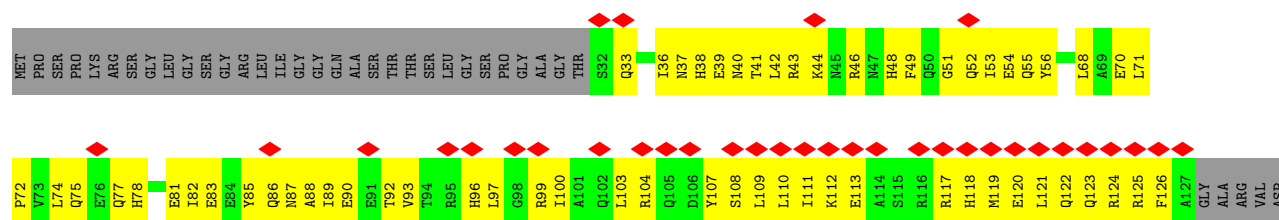


• Molecule 34: FAP7

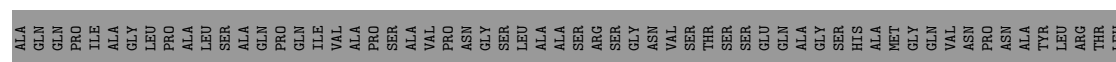
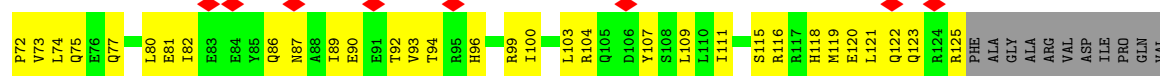


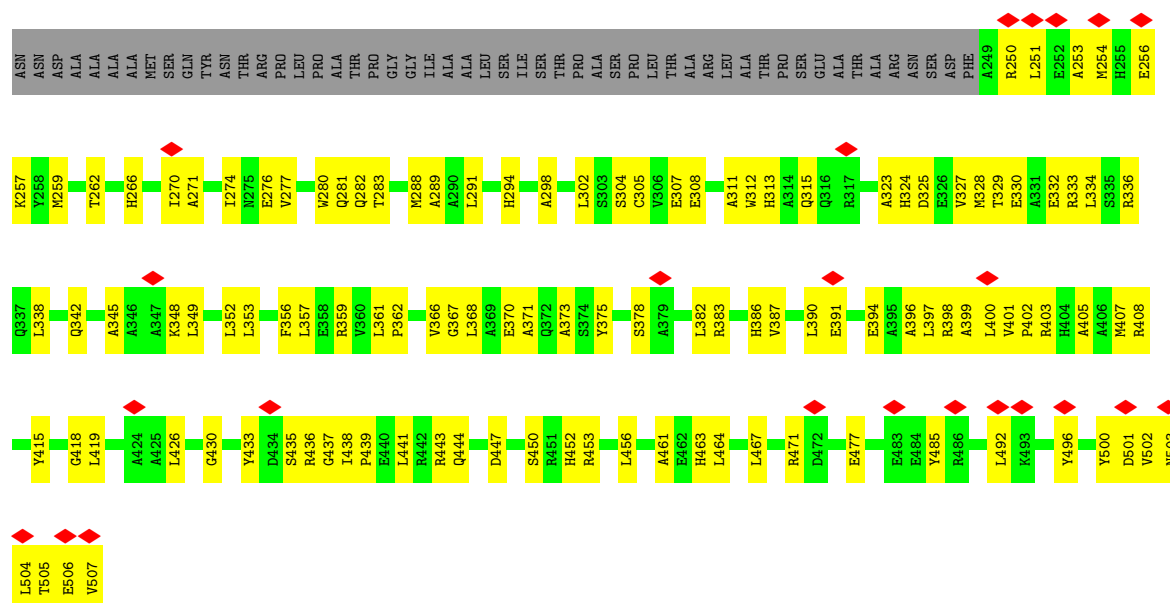


• Molecule 34: FAP7

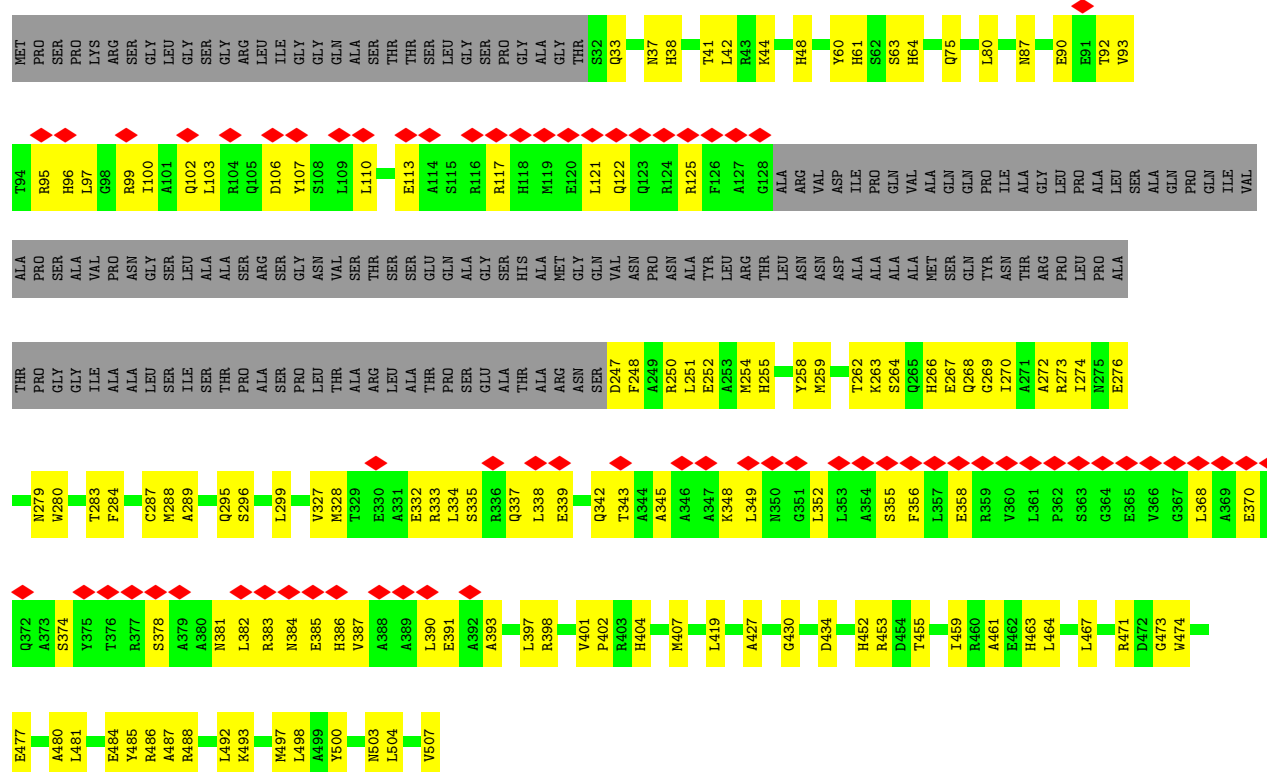


• Molecule 34: FAP7



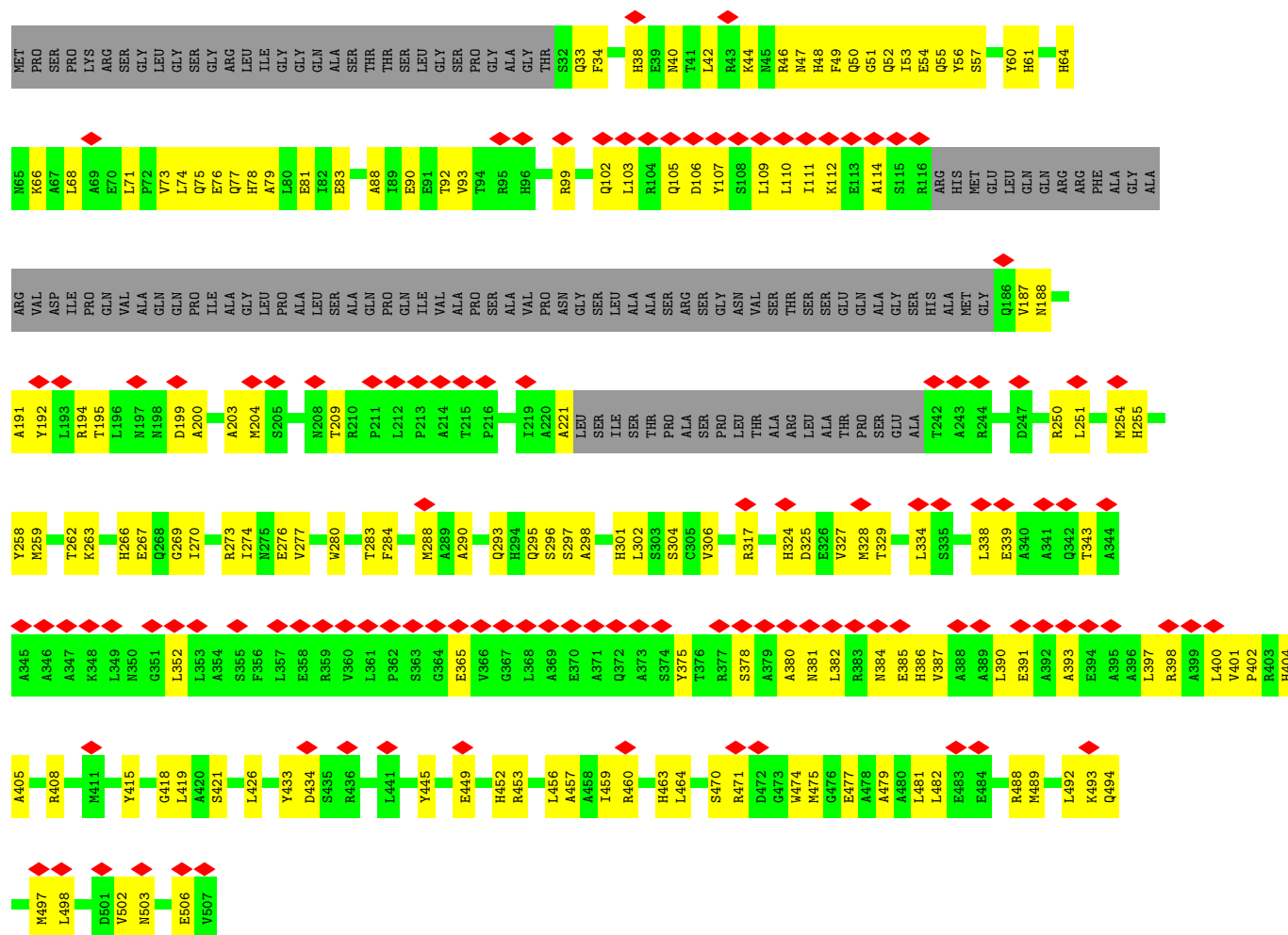


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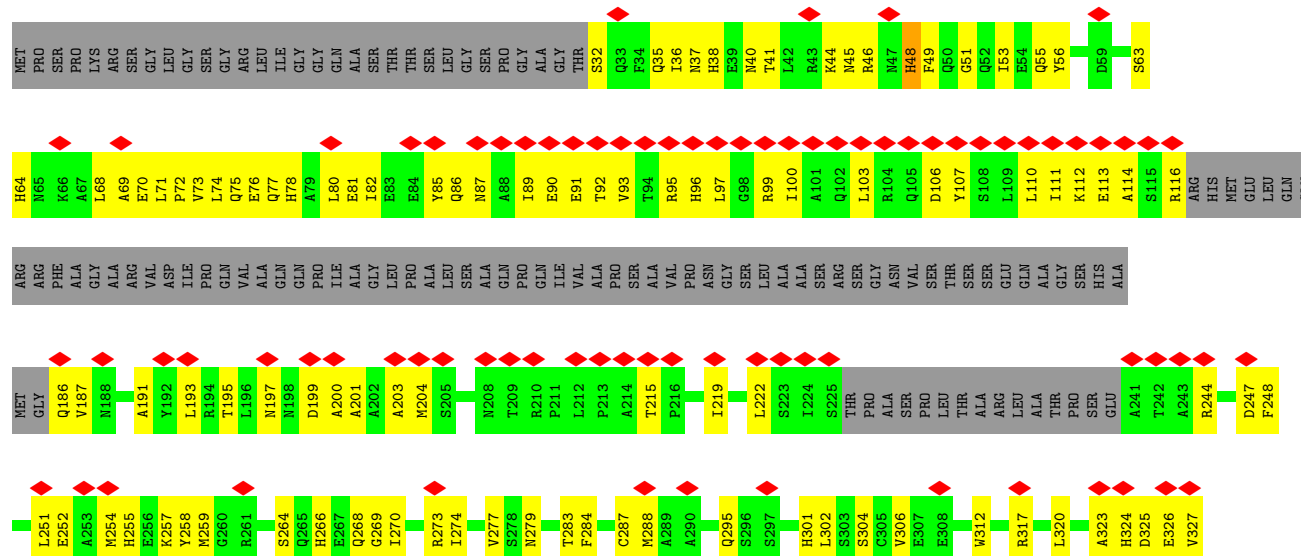
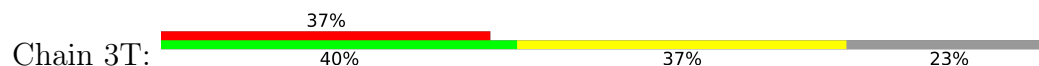


• Molecule 34: FAP7

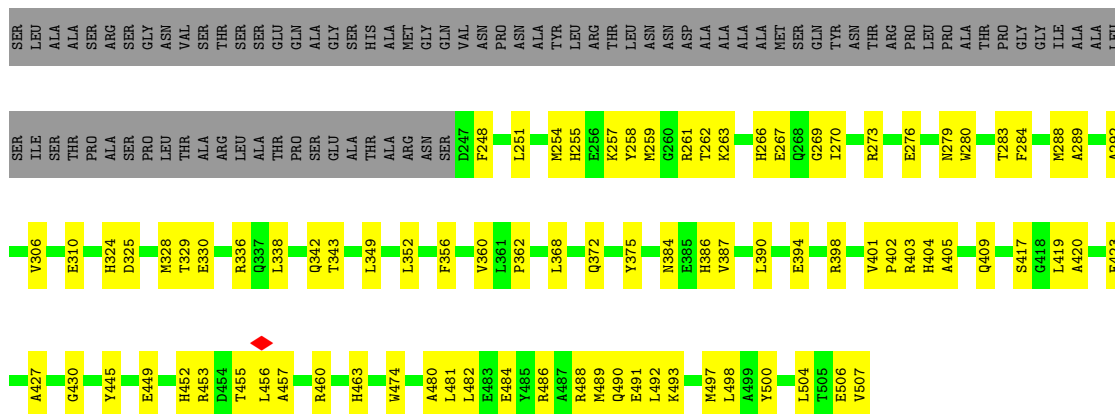




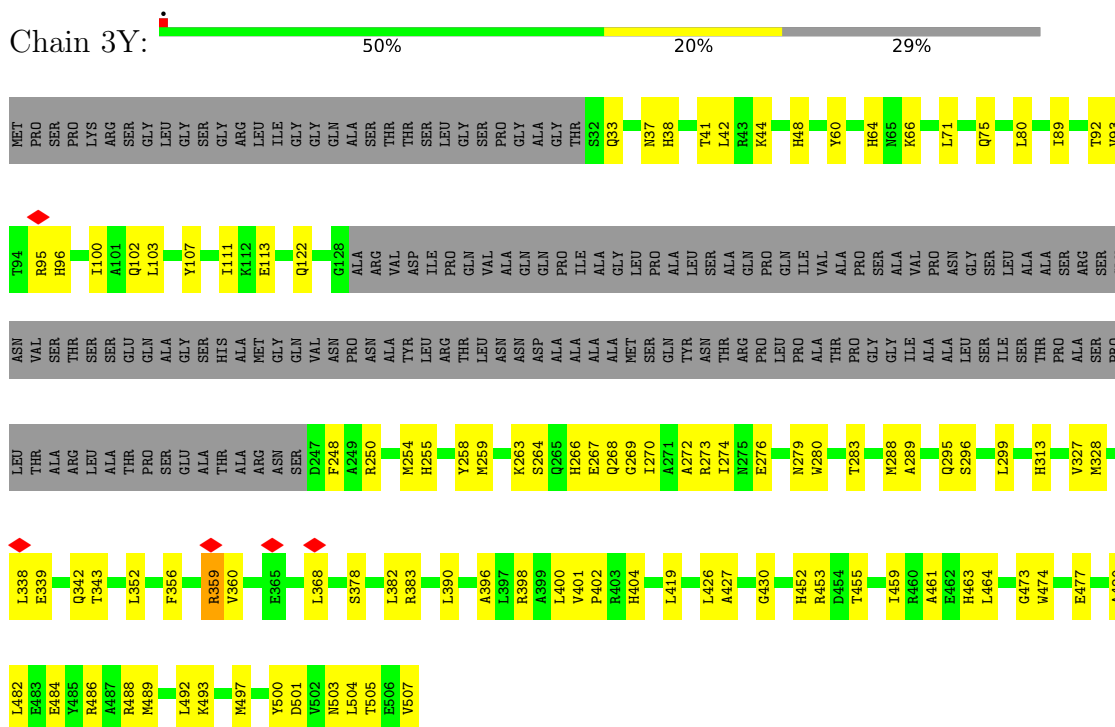
• Molecule 34: FAP7



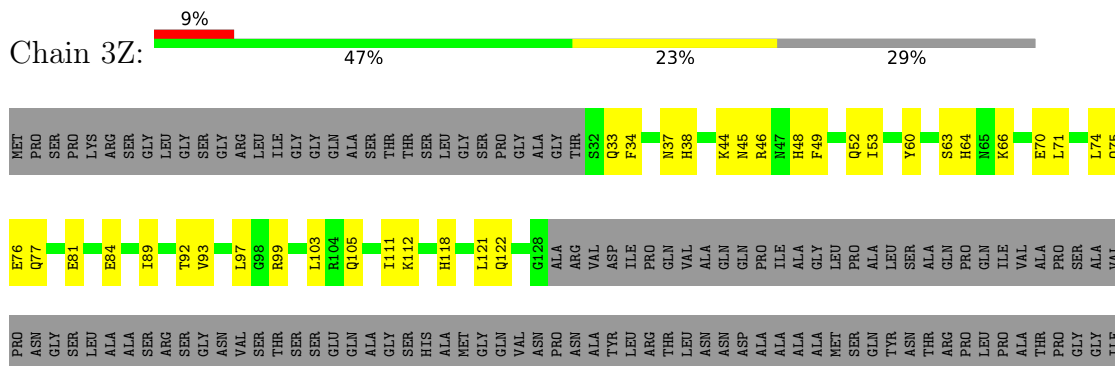


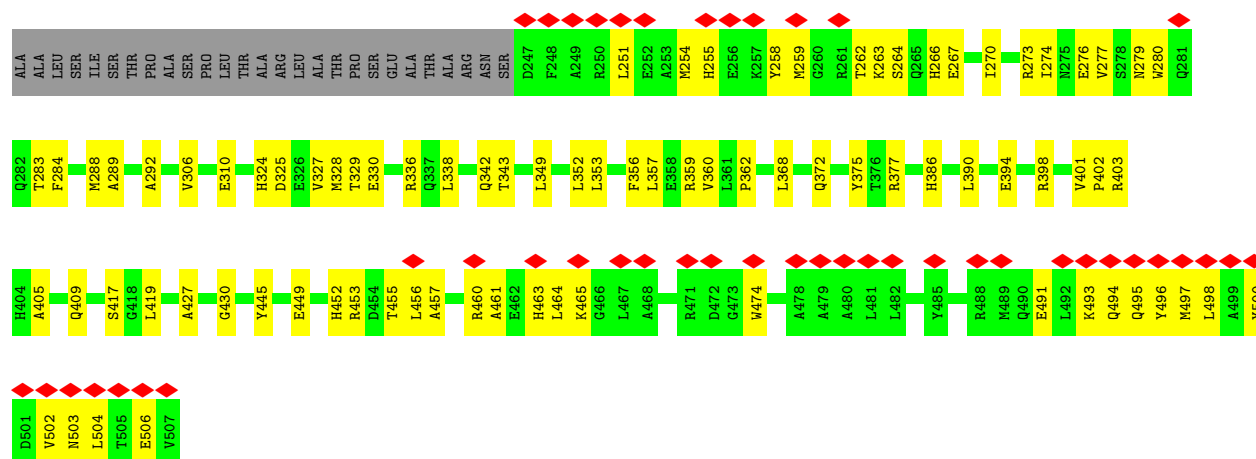


- Molecule 34: FAP7

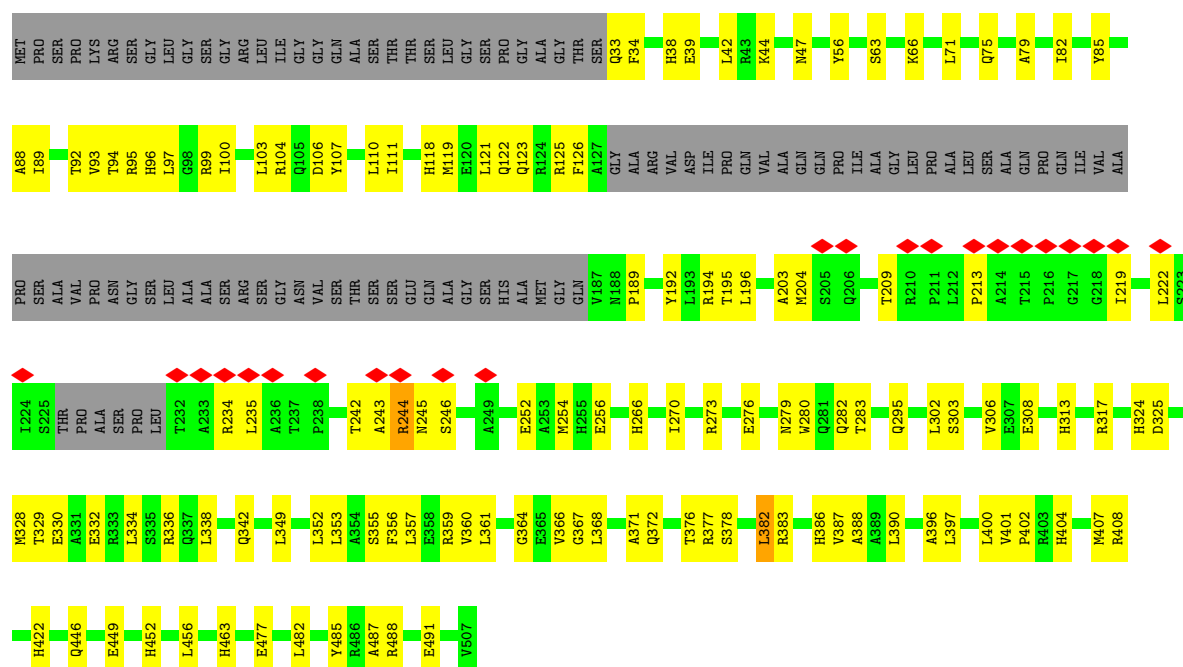


- Molecule 34: FAP7

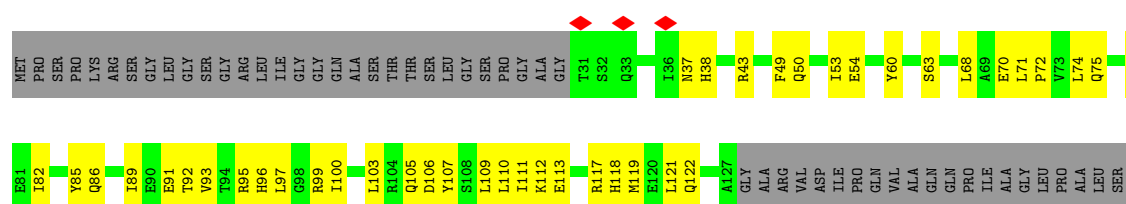


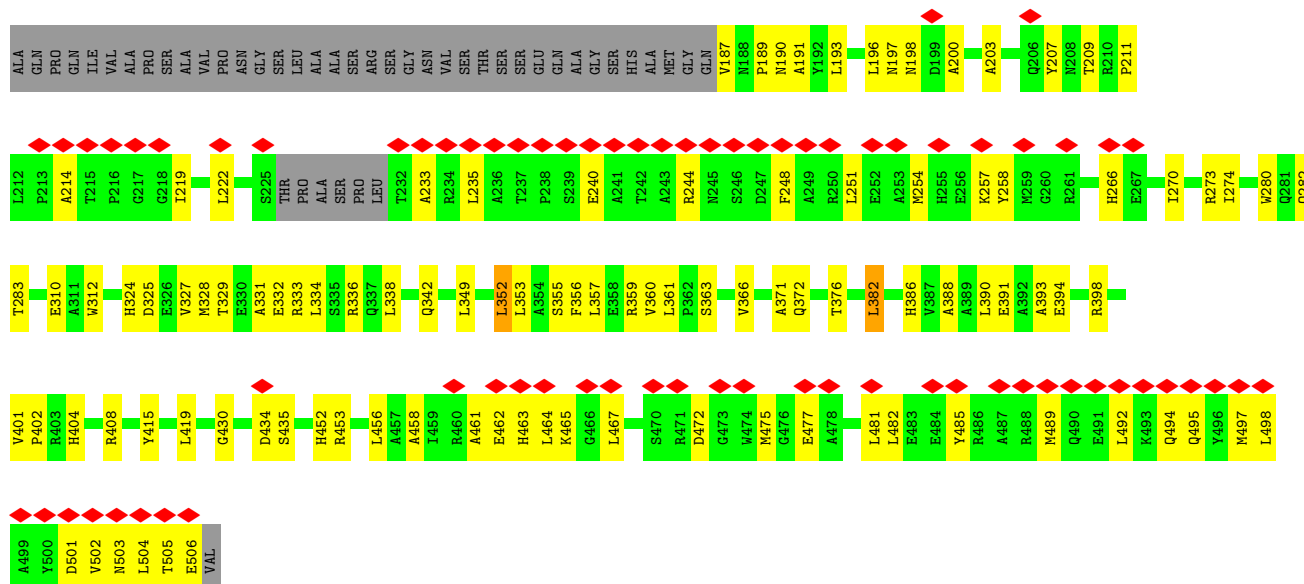


• Molecule 34: FAP7

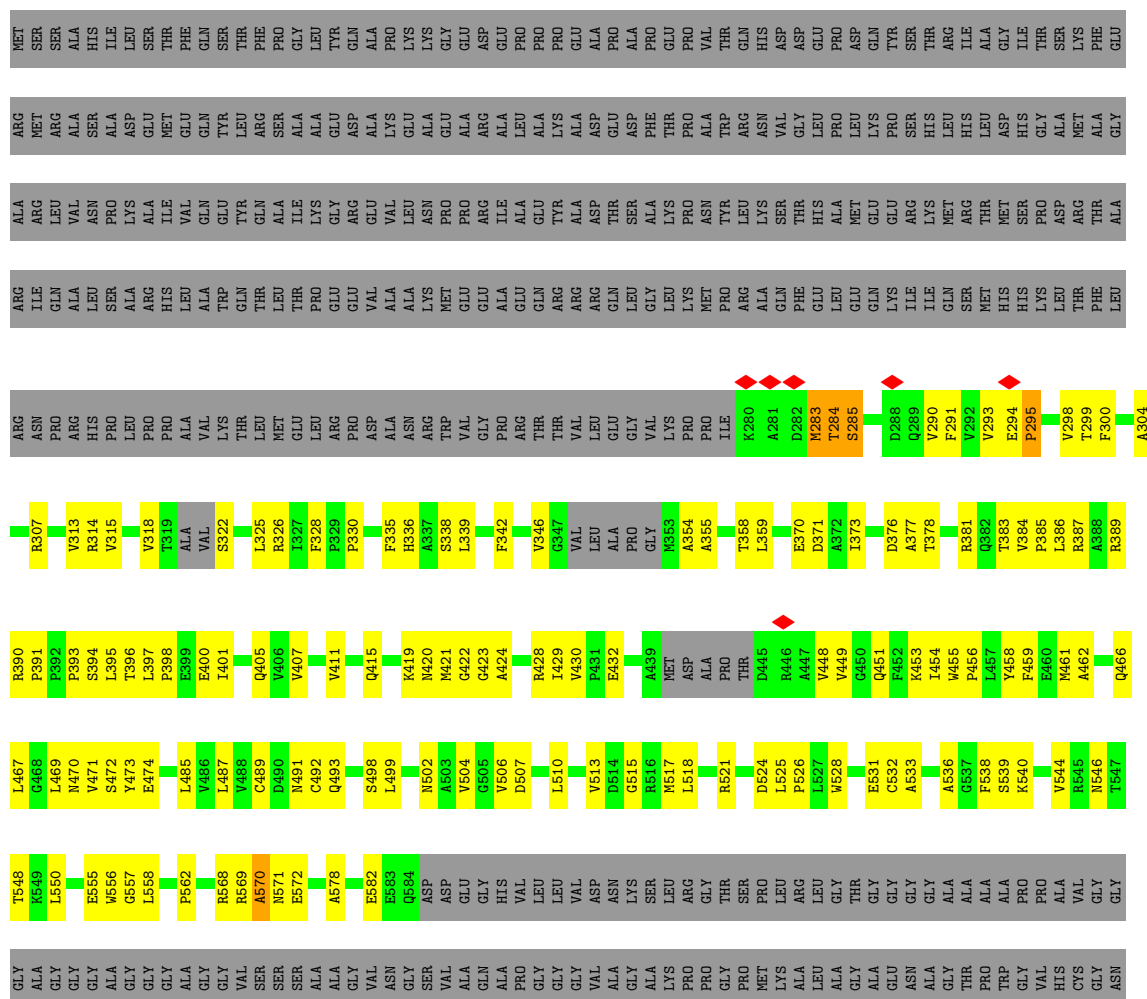


• Molecule 34: FAP7





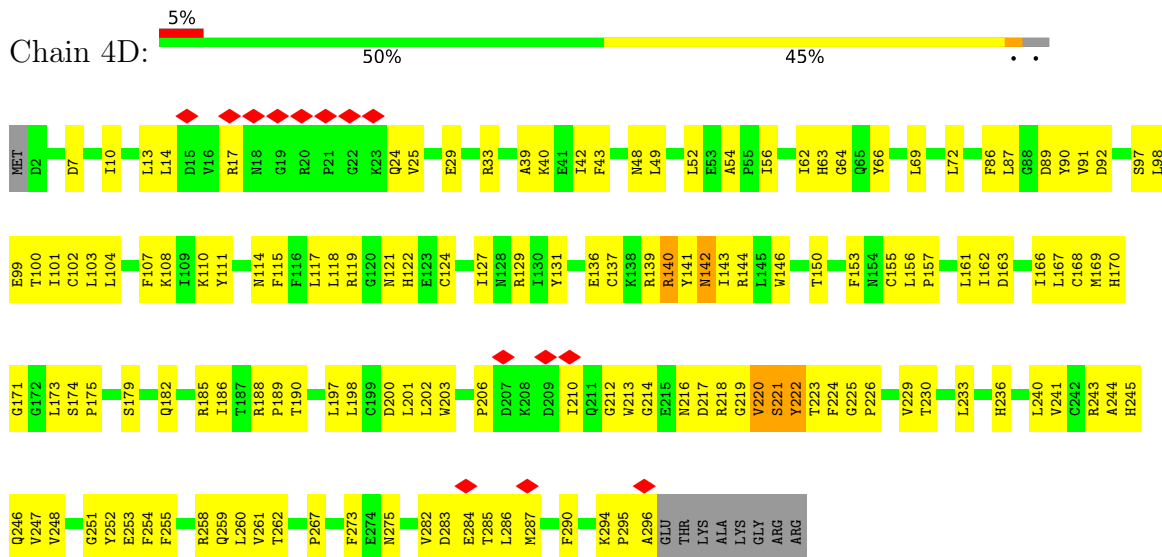
• Molecule 35: FAP81





VAL	ILE	SER	ALA	GLY	VAL	GLY	VAL	GLY	HIS	PRO
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		ARG	ARG	ALA	GLU	ALA	GLU	SER	PRO	ALA
		GLY	PRO	ALA	MET	VAL	LEU	VAL	GLN	GLY
		GLY	ALA	SER	ALA	SER	ASP	VAL	PHE	PRO
		MET	THR	ALA	HIS	VAL	PRO	THR	SER	PRO
		PRO	ASP	ALA	ARG	LEU	ARG	LEU	LEU	THR
		ARG	GLY	ALA	LEU	ARG	LEU	ARG	ASP	PRO
		GLN	ALA	GLU	VAL	VAL	SER	PHE	GLU	GLN
		ARG	ALA	ALA	LYS	PRO	PRO	GLY	GLY	PRO
		ILE	GLY	LYS	PRO	GLY	LYS	PRO	PRO	LEU
		SER	ALA	GLU	ARG	GLY	ARG	TRP	ARG	ARG
		ILE	ALA	GLU	LYS	GLY	LYS	ASP	ASP	VAL
		THR	ALA	ALA	ASP	ASP	LEU	MET	MET	ASP
		PHE	PRO	ALA	ASP	MET	PHE	GLU	ALA	GLY
		ALA	ALA	ALA	PHE	ALA	LYS	ALA	ALA	GLY
		PRO	GLY	ALA	LYS	ALA	LYS	ALA	SER	GLN
		THR	GLY	ALA	VAL	VAL	VAL	PRO	PRO	ALA
		GLU	VAL	ALA	HIS	VAL	ARG	VAL	SER	GLN
		ALA	PRO	ALA	LEU	GLN	LEU	VAL	VAL	ALA
		GLU	PRO	ALA	GLN	PHE	ARG	PHE	PRO	CYS
		ALA	PRO	GLY	SER	ALA	ALA	ALA	PRO	ARG
		TYR	PRO	GLY	LYS	GLY	GLY	ASP	GLN	GLY
		GLU	LYS	GLY	LYS	MET	GLN	VAL	ASP	GLU
		GLU	PRO	SER	GLU	GLN	VAL	VAL	VAL	PRO
		LEU	GLY	ALA	MET	ALA	ALA	ALA	ALA	ASP
		ILE	ALA	SER	PHE	LYS	LYS	TYR	TYR	GLY
		PHE	GLY	ALA	VAL	GLN	ARG	ARG	GLN	GLY
		ALA	GLY	GLN	MET	VAL	ARG	GLY	GLY	THR
		VAL	PRO	PRO	LEU	VAL	ILE	SER	SER	ASP
		LEU	THR	PRO	ASN	GLU	THR	THR	THR	SER
		ARG	THR	PRO	PRO	THR	PRO	LEU	THR	TRP
		GLY	LEU	ARG	PRO	VAL	LEU	LEU	VAL	VAL
		LYS	PRO	SER	THR	ASN	ASN	GLY	GLY	THR
		GLN	GLY	ALA	VAL	ASP	THR	ALA	ALA	ILE
		ASP	GLY	GLY	ALA	LYS	LYS	ALA	ALA	GLN
		VAL	ILE	ASN	ALA	ASN	ASN	ALA	ALA	GLN
		VAL	ILE	LEU	TRP	THR	THR	SER	SER	GLN
		ASP	ALA	ALA	ALA	GLY	GLY	GLY	PRO	PRO
		GLY	GLU	GLY	VAL	VAL	VAL	ARG	ARG	GLY
		GLU	ALA	GLU	THR	THR	THR	LEU	LEU	SER
		GLY	ARG	ALA	VAL	CYS	VAL	CYS	GLY	HIS
		SER	ILE	SER	ILE	THR	THR	ILE	THR	ALA
		ILE	GLY	ALA	GLY	ALA	GLY	THR	SER	ALA
		GLU	PRO	PRO	HIS	PHE	PHE	ALA	ALA	PHE
		GLU	TYR	ASP	LYS	TYR	ASP	ALA	ALA	VAL
		THR	VAL	SER	PRO	ASN	ASN	ASP	ASP	ARG
		ASP	VAL	ARG	ARG	GLY	ASP	GLY	SER	SER
		GLU	LYS	ALA	PHE	ASP	THR	GLY	VAL	VAL
		THR	PRO	ALA	GLY	ALA	THR	GLY	THR	THR
		LYS	ALA	ALA	PRO	GLN	GLN	SER	LEU	THR
		GLY	ALA	SER	THR	SER	GLN	THR	PHE	SER
		ASN	GLY	ALA	PRO	ASN	LEU	LEU	ASN	SER
		LEU	GLY	VAL	GLY	VAL	LEU	PRO	PRO	ALA
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- Molecule 36: FAP15



- Molecule 37: PF6

[illegible]







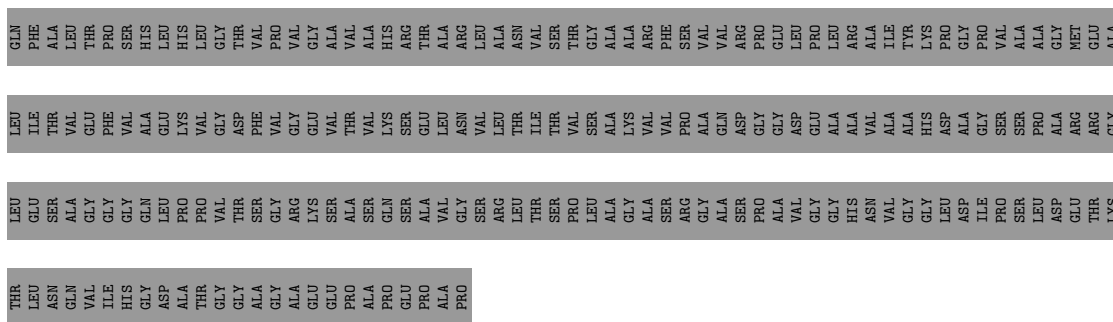




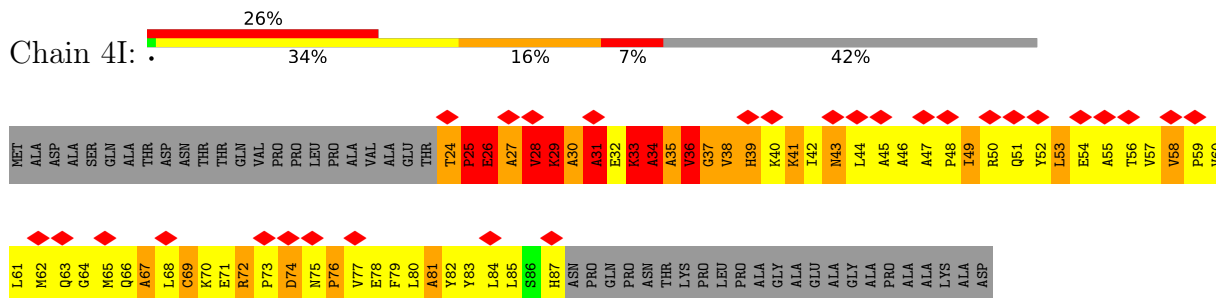




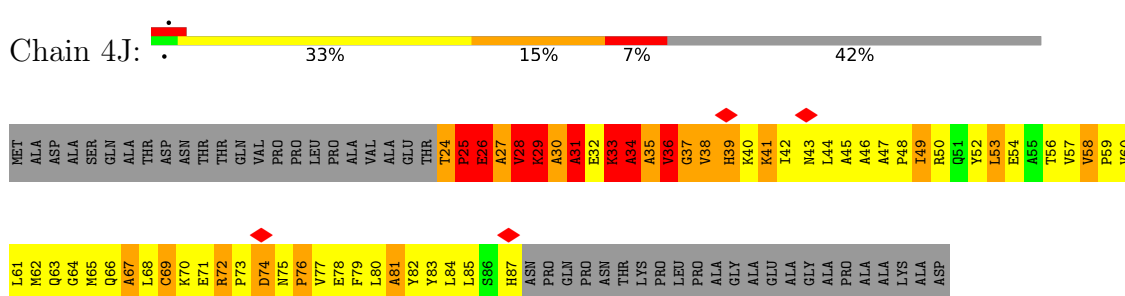




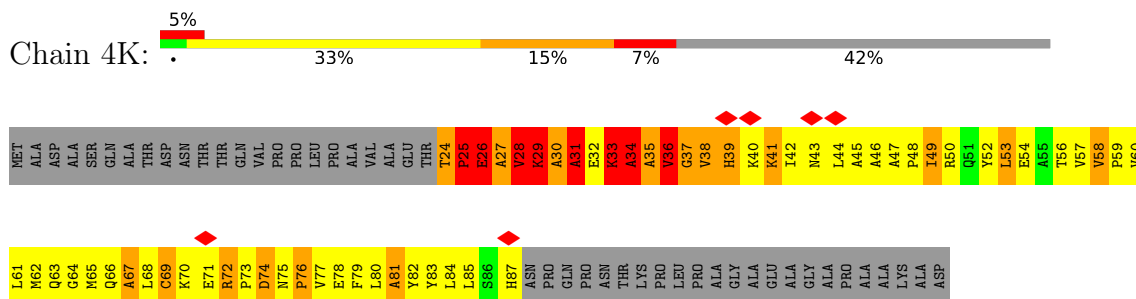
- Molecule 38: DPY30



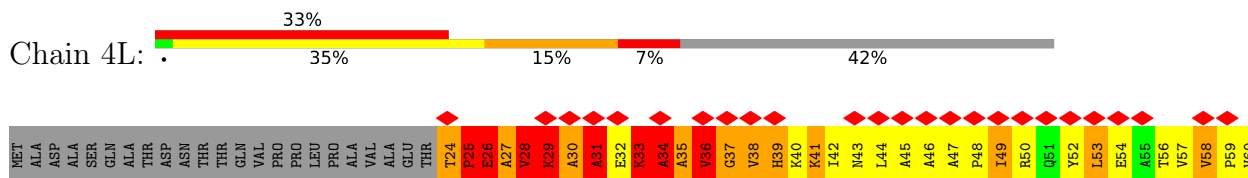
- Molecule 38: DPY30

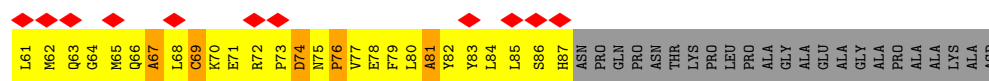


- Molecule 38: DPY30



- Molecule 38: DPY30

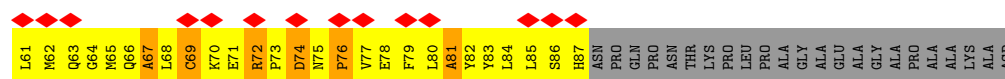
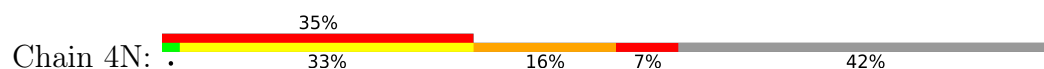




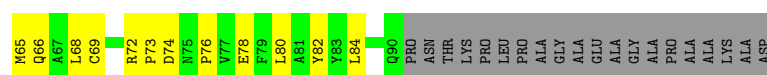
● Molecule 38: DPY30



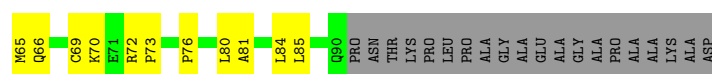
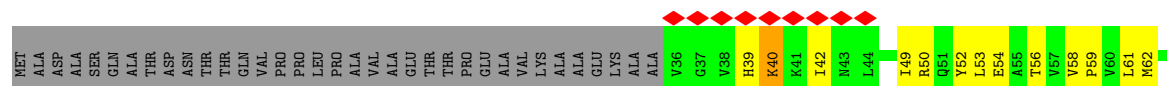
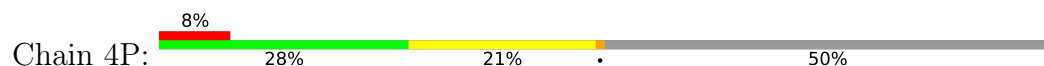
● Molecule 38: DPY30



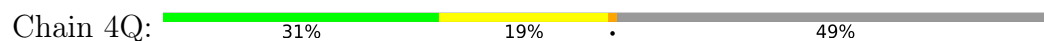
● Molecule 38: DPY30

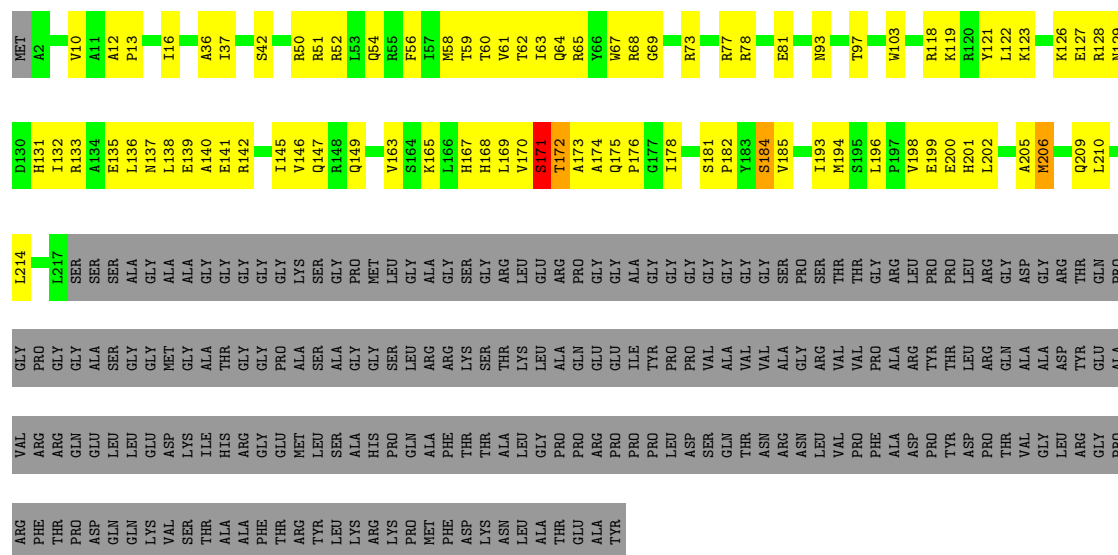


● Molecule 38: DPY30

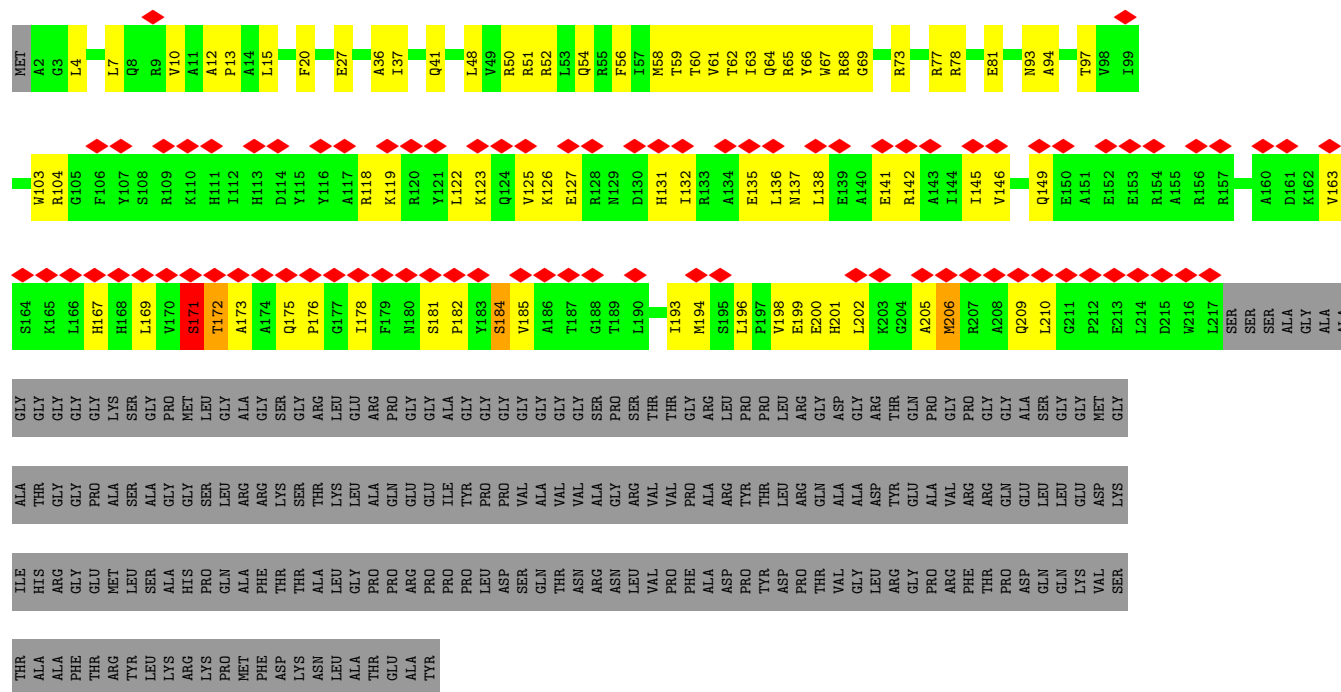
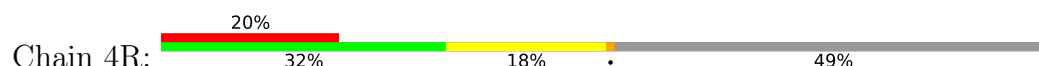


● Molecule 39: FAP305

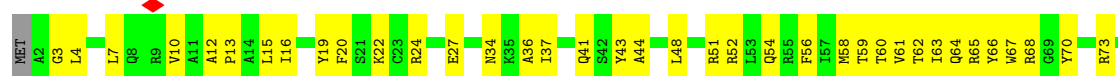
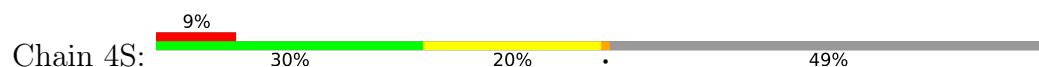


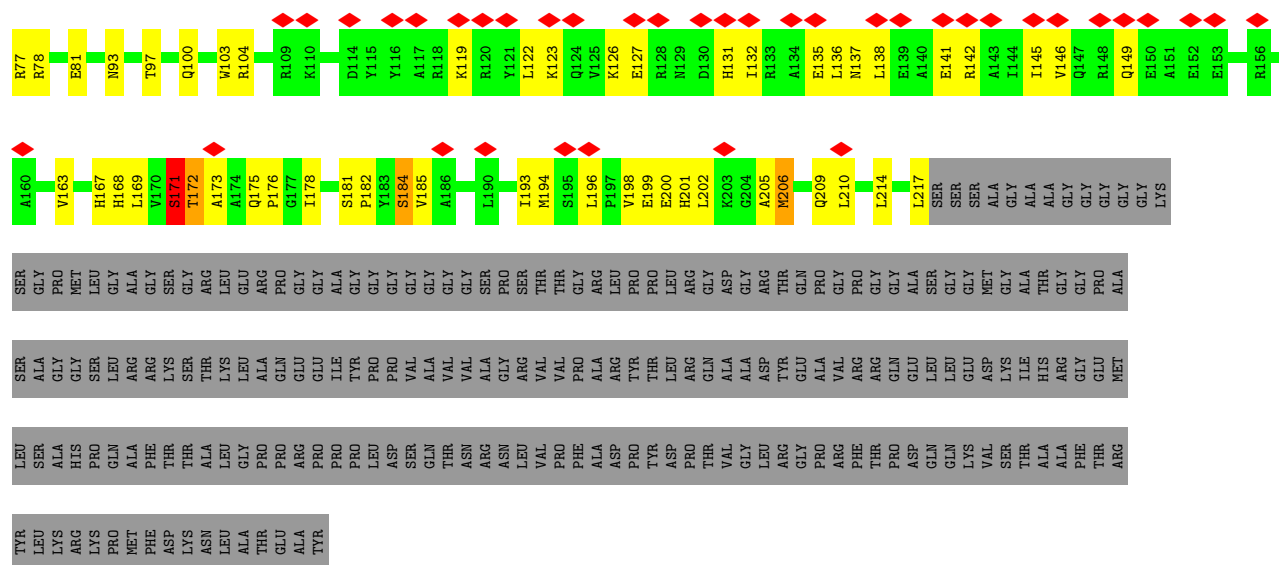


• Molecule 39: FAP305



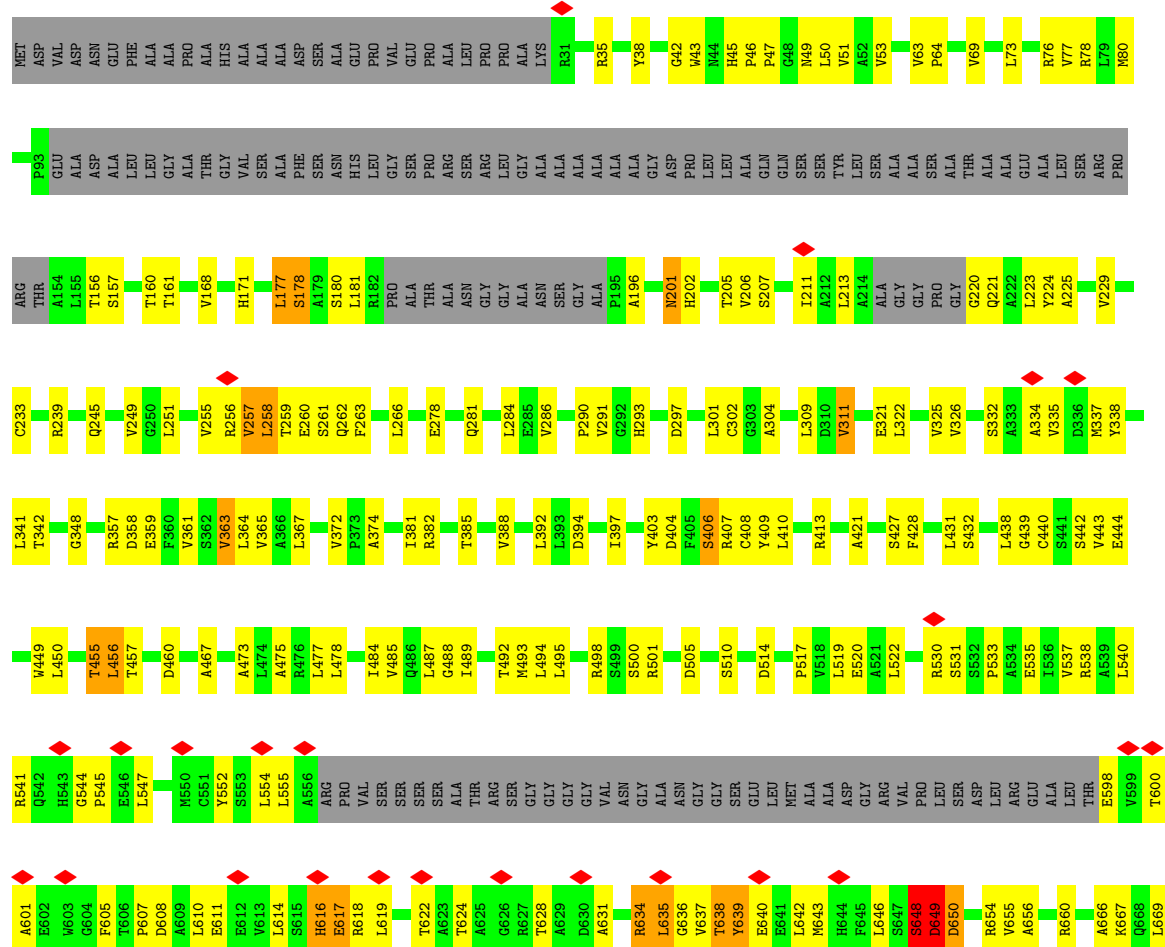
• Molecule 39: FAP305



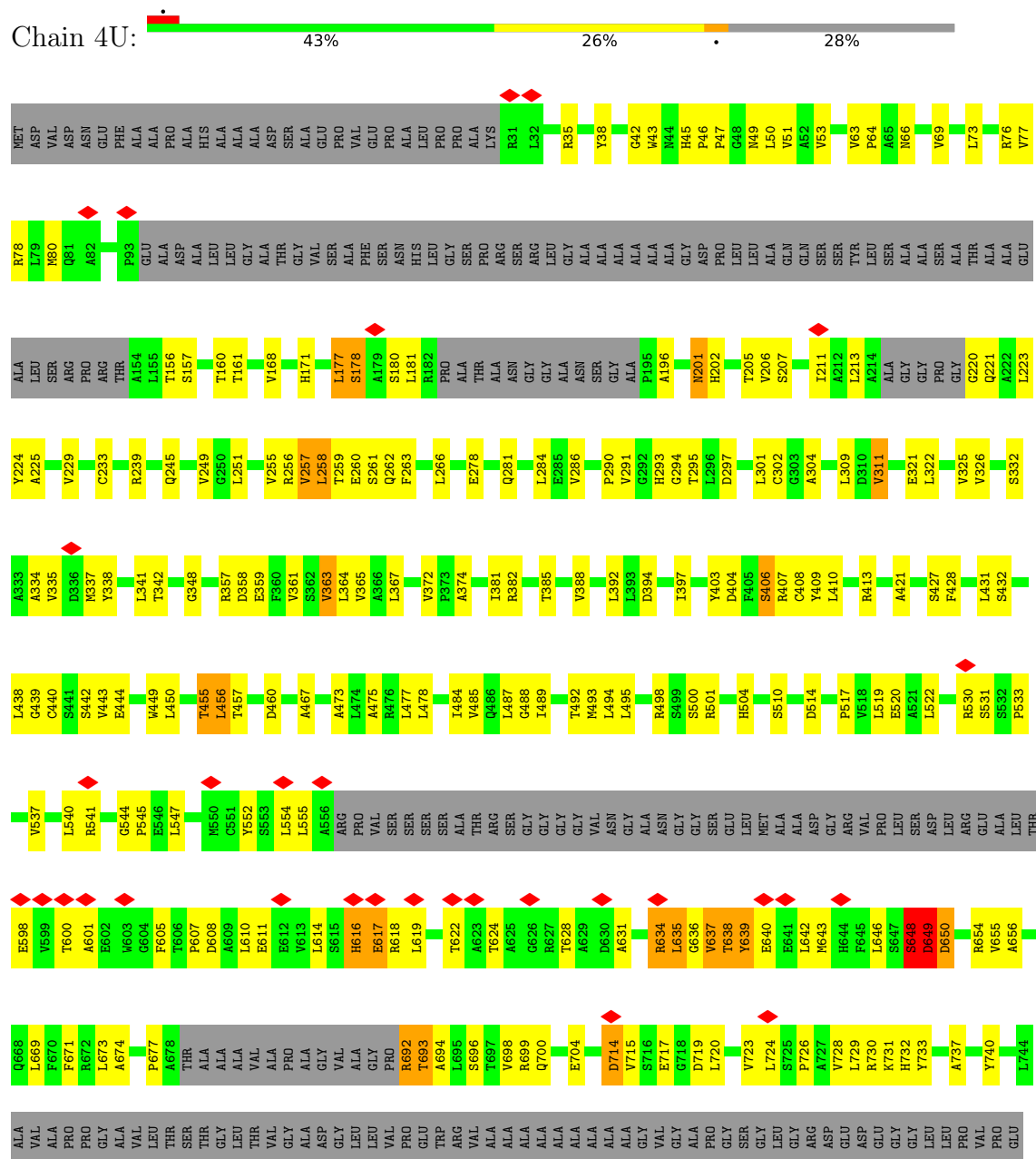


Molecule 40: FAP101

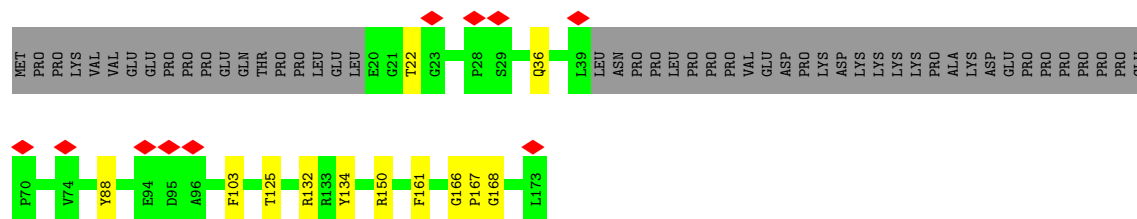
Chain 4T: 44% 26% 28%



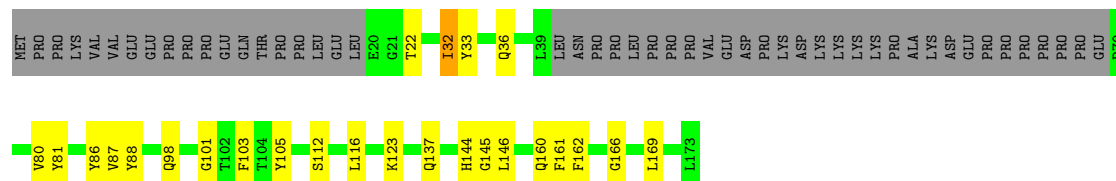
- Molecule 40: FAP101



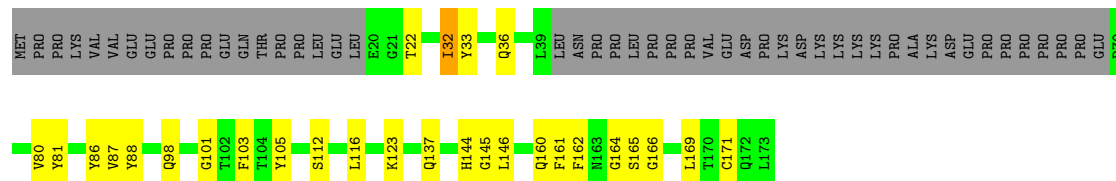




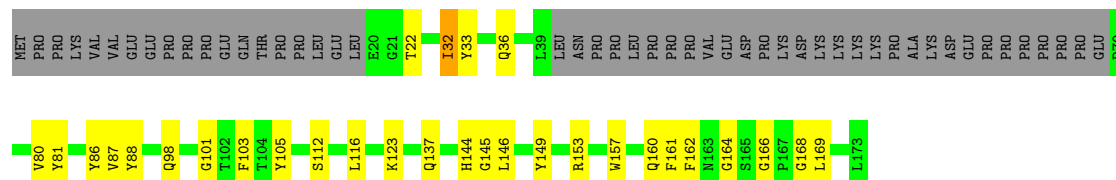
- Molecule 41: FAP227



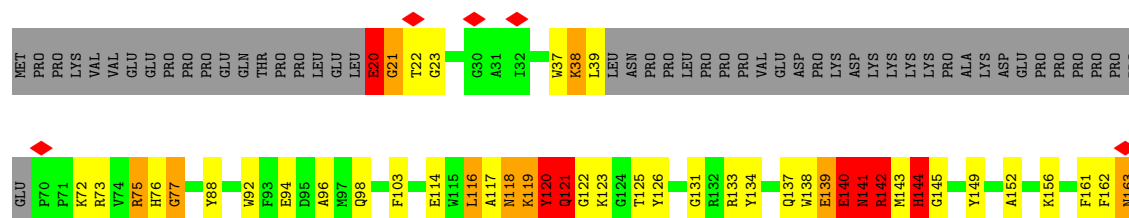
- Molecule 41: FAP227

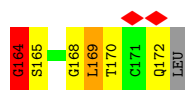


- Molecule 41: FAP227



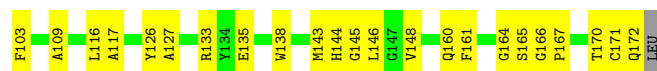
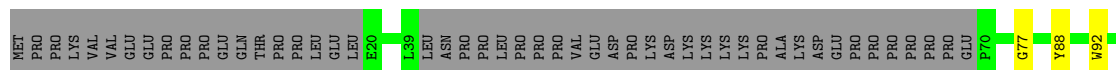
- Molecule 41: FAP227





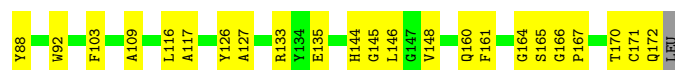
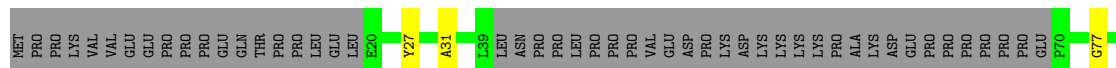
• Molecule 41: FAP227

Chain 5B: 56% 15% 29%



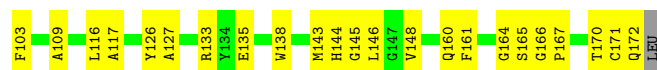
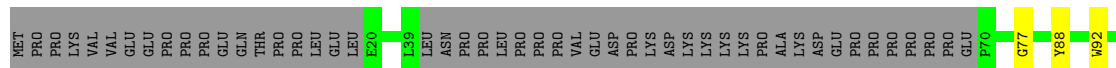
• Molecule 41: FAP227

Chain 5C: 56% 15% 29%



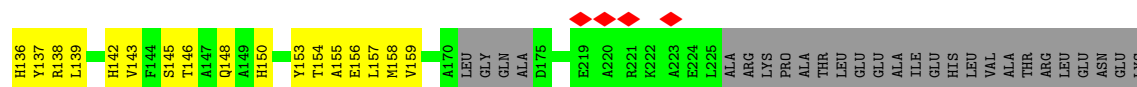
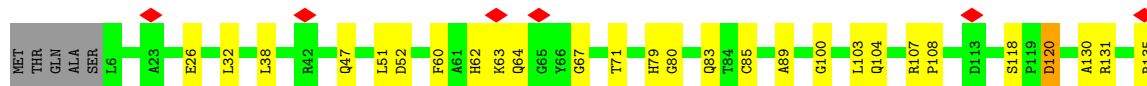
• Molecule 41: FAP227

Chain 5D: 56% 15% 29%



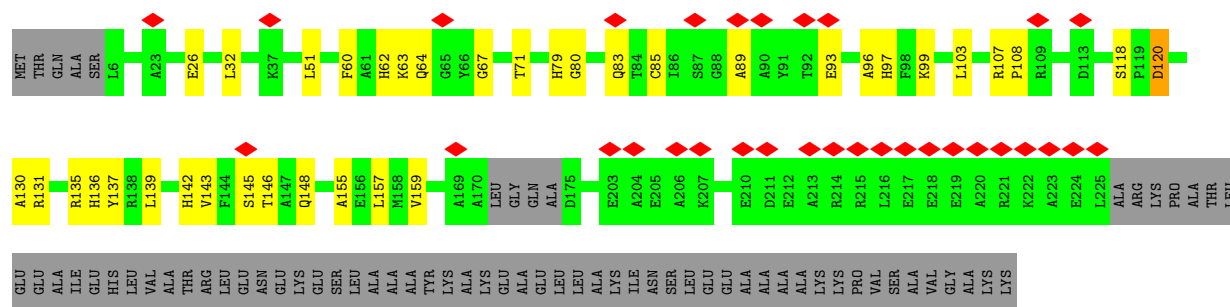
• Molecule 42: FAP114

Chain 5E: 60% 15% 24%

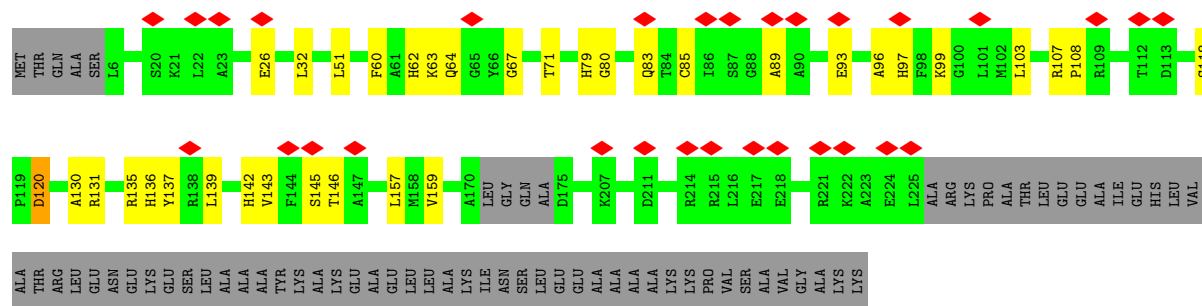


• Molecule 42: FAP114

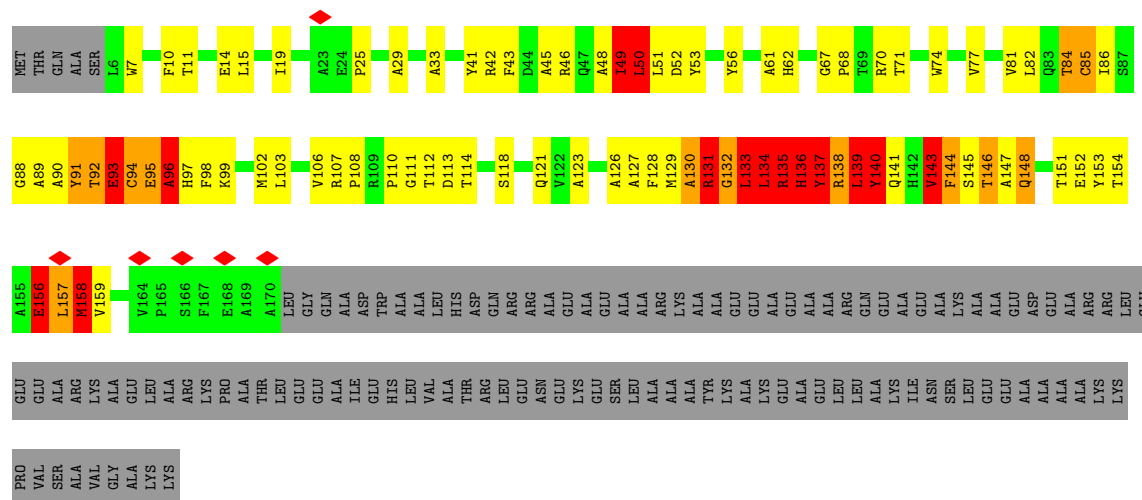
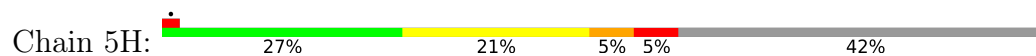
Chain 5F: 11% 63% 13% 24%



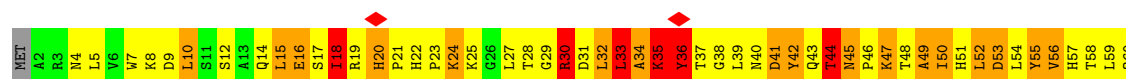
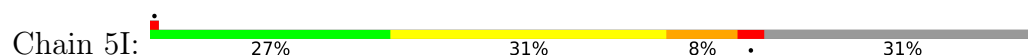
• Molecule 42: FAP114

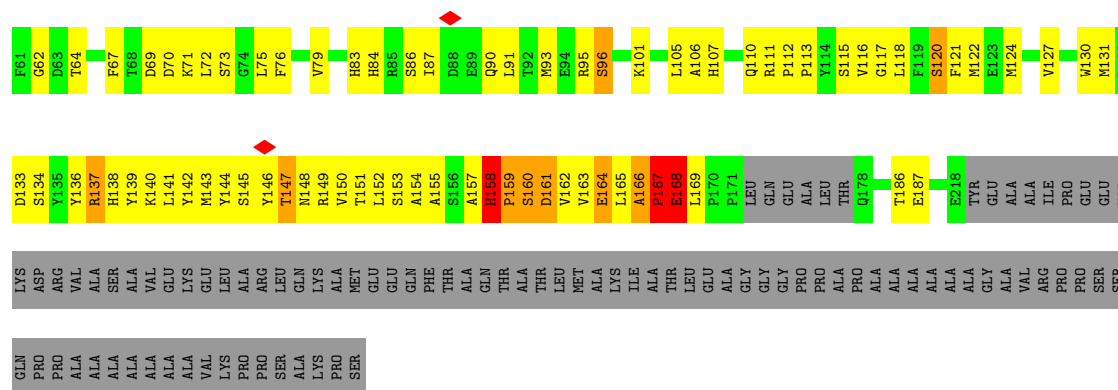


• Molecule 42: FAP114

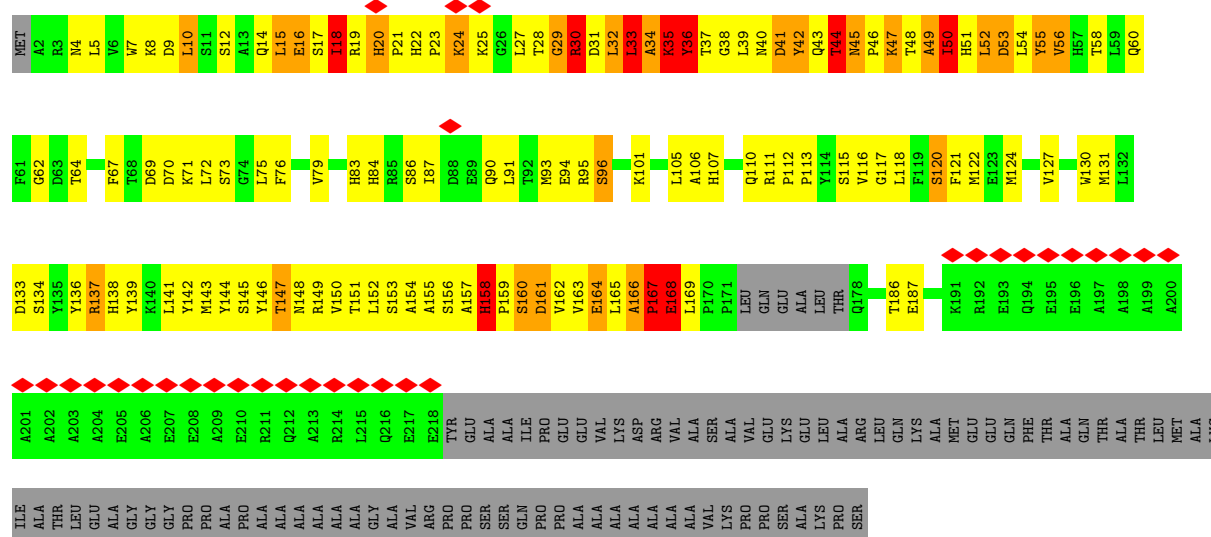


• Molecule 43: FAP119

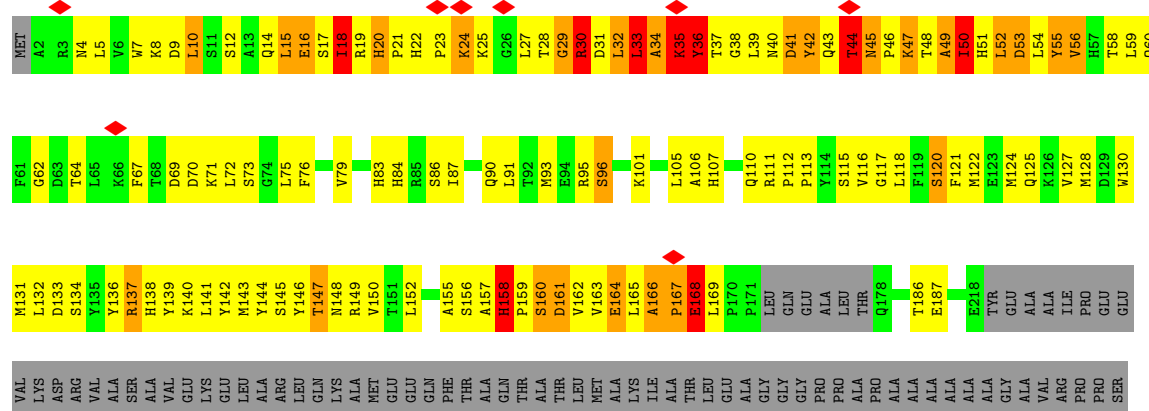
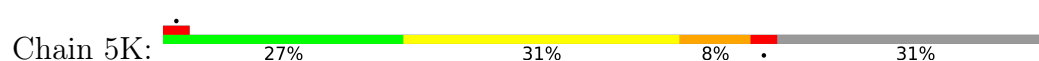




• Molecule 43: FAP119

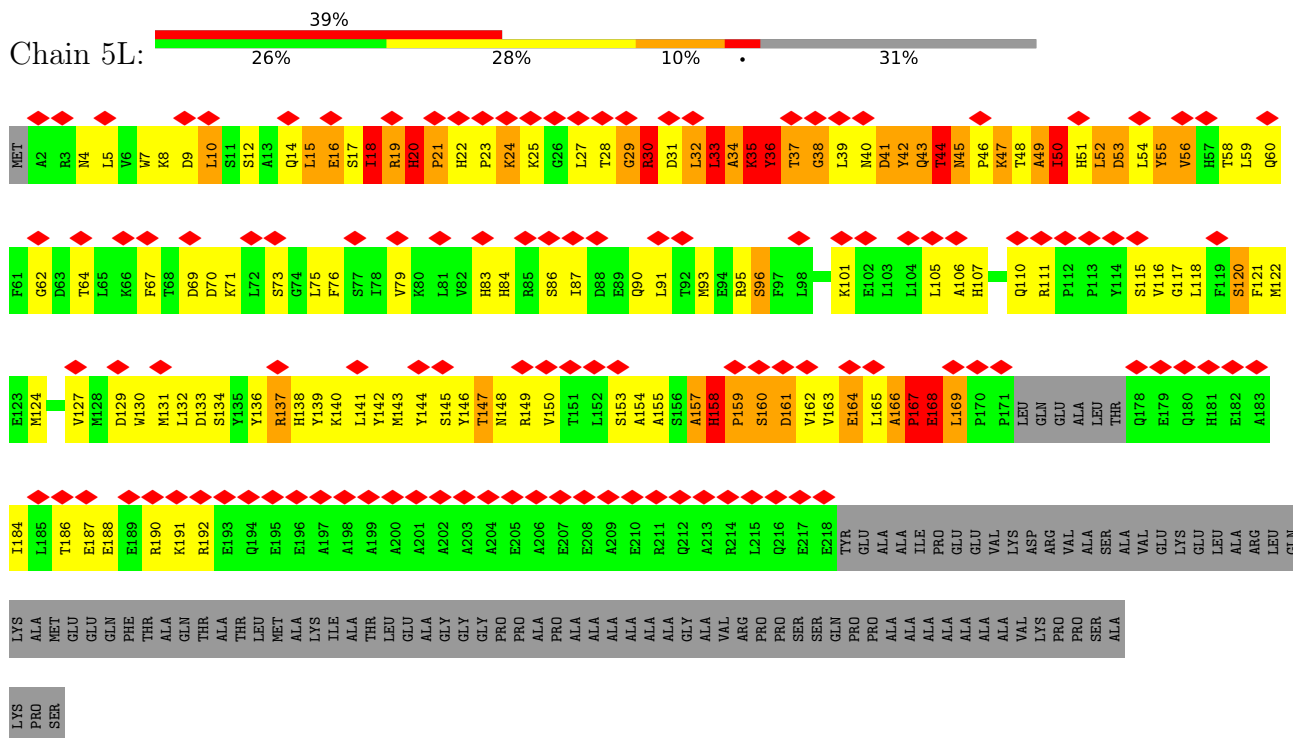


• Molecule 43: FAP119

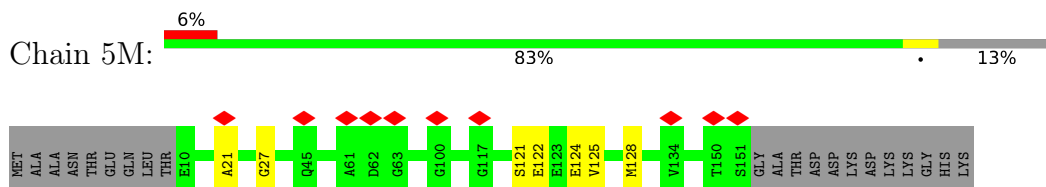


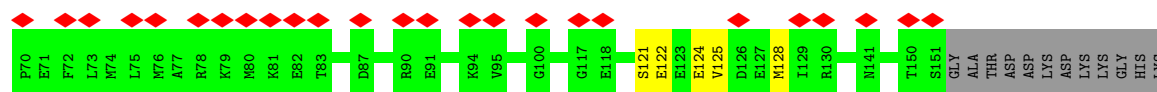
SER
GLN
PRO
PRO
ALA
ALA
ALA
ALA
ALA
VAL
LYS
PRO
PRO
SER
ALA
LYS
PRO
SER

• Molecule 43: FAP119

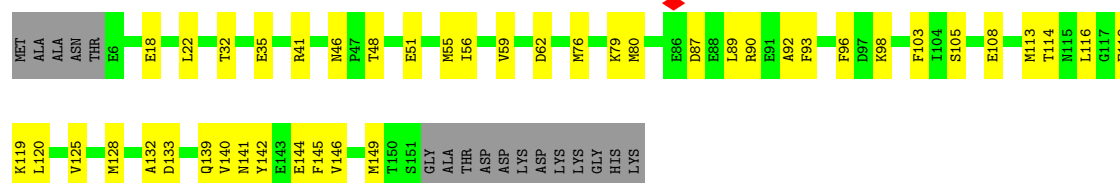


• Molecule 44: Calmodulin

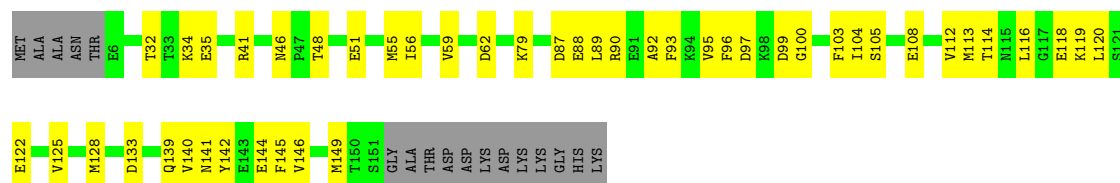




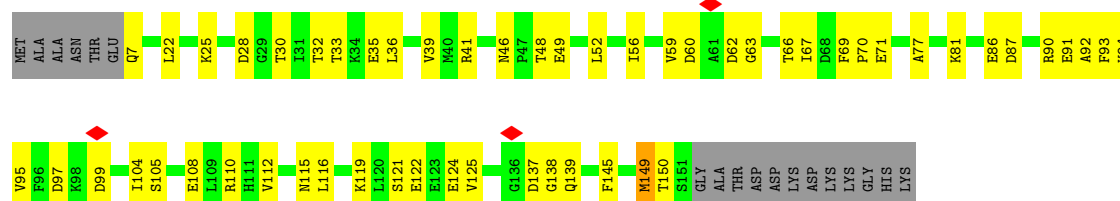
• Molecule 44: Calmodulin



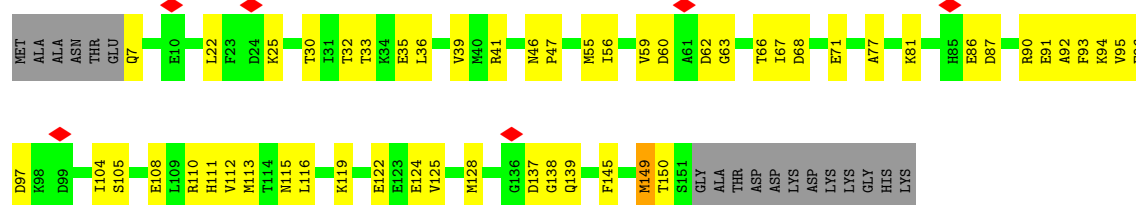
• Molecule 44: Calmodulin



• Molecule 44: Calmodulin

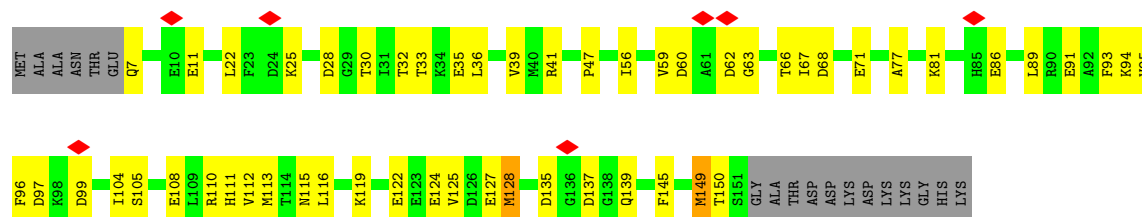


• Molecule 44: Calmodulin

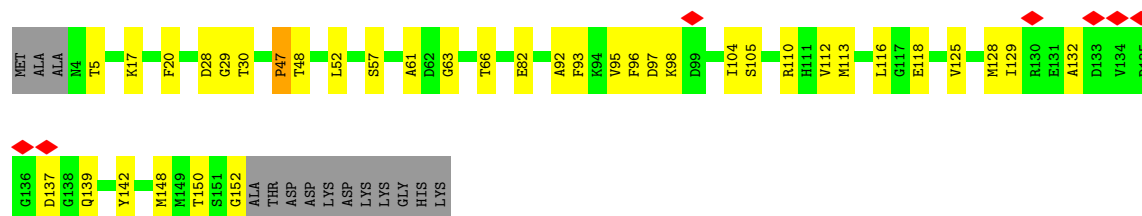


• Molecule 44: Calmodulin

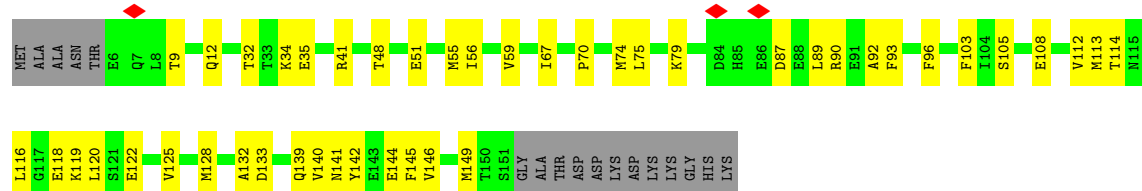




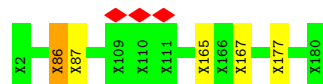
- Molecule 44: Calmodulin



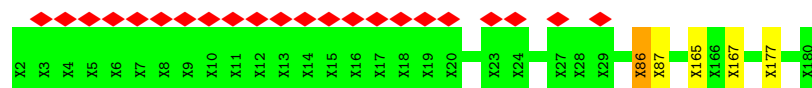
- Molecule 44: Calmodulin



- Molecule 45: Unknown protein



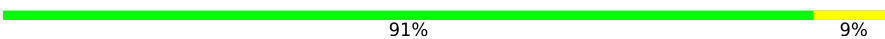
- Molecule 45: Unknown protein



- Molecule 45: Unknown protein

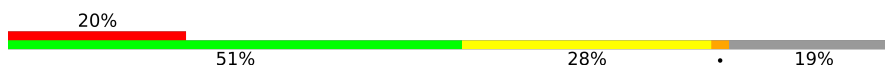


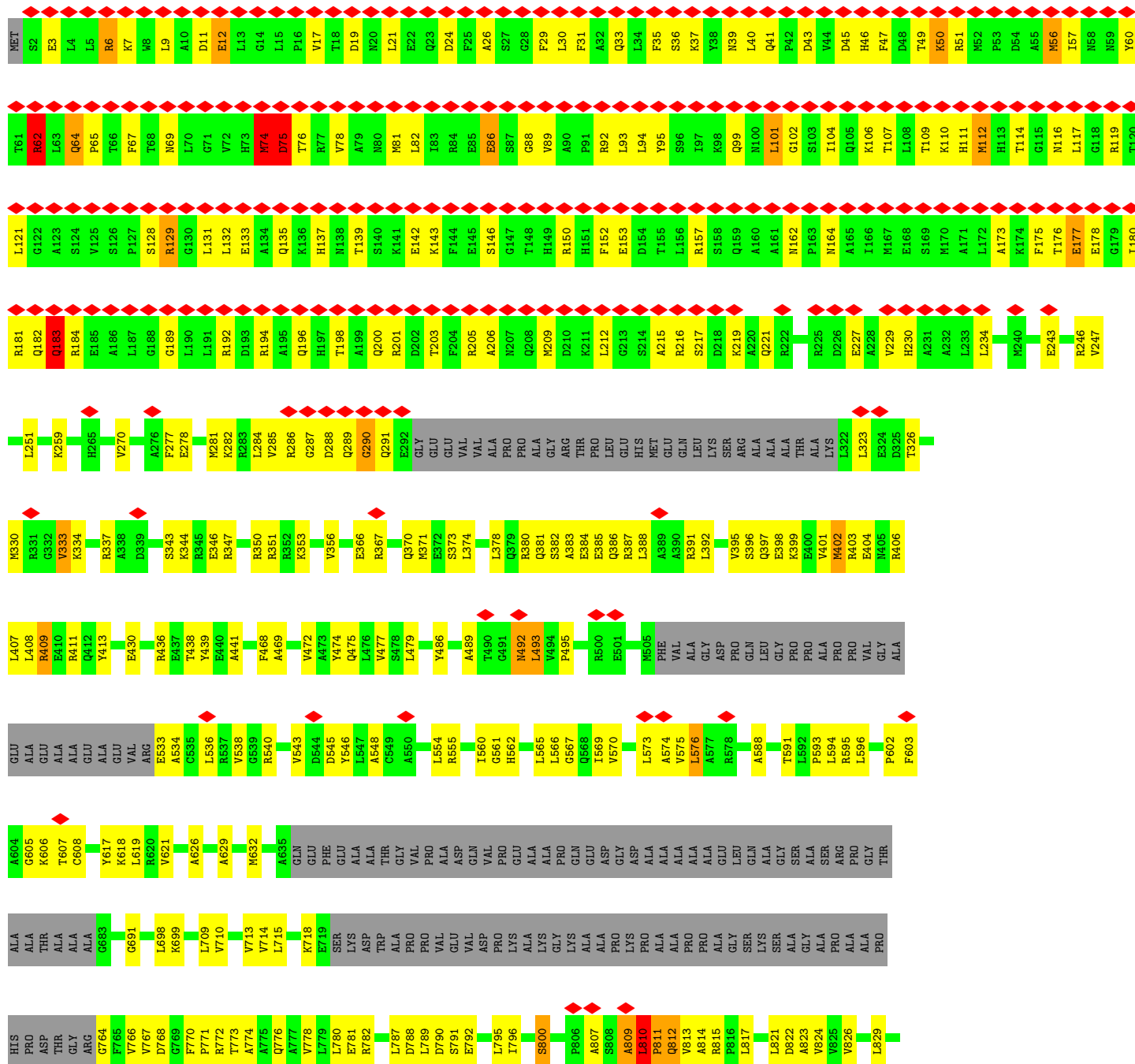
• Molecule 46: Unknown protein

Chain 5Z:  91% 9%



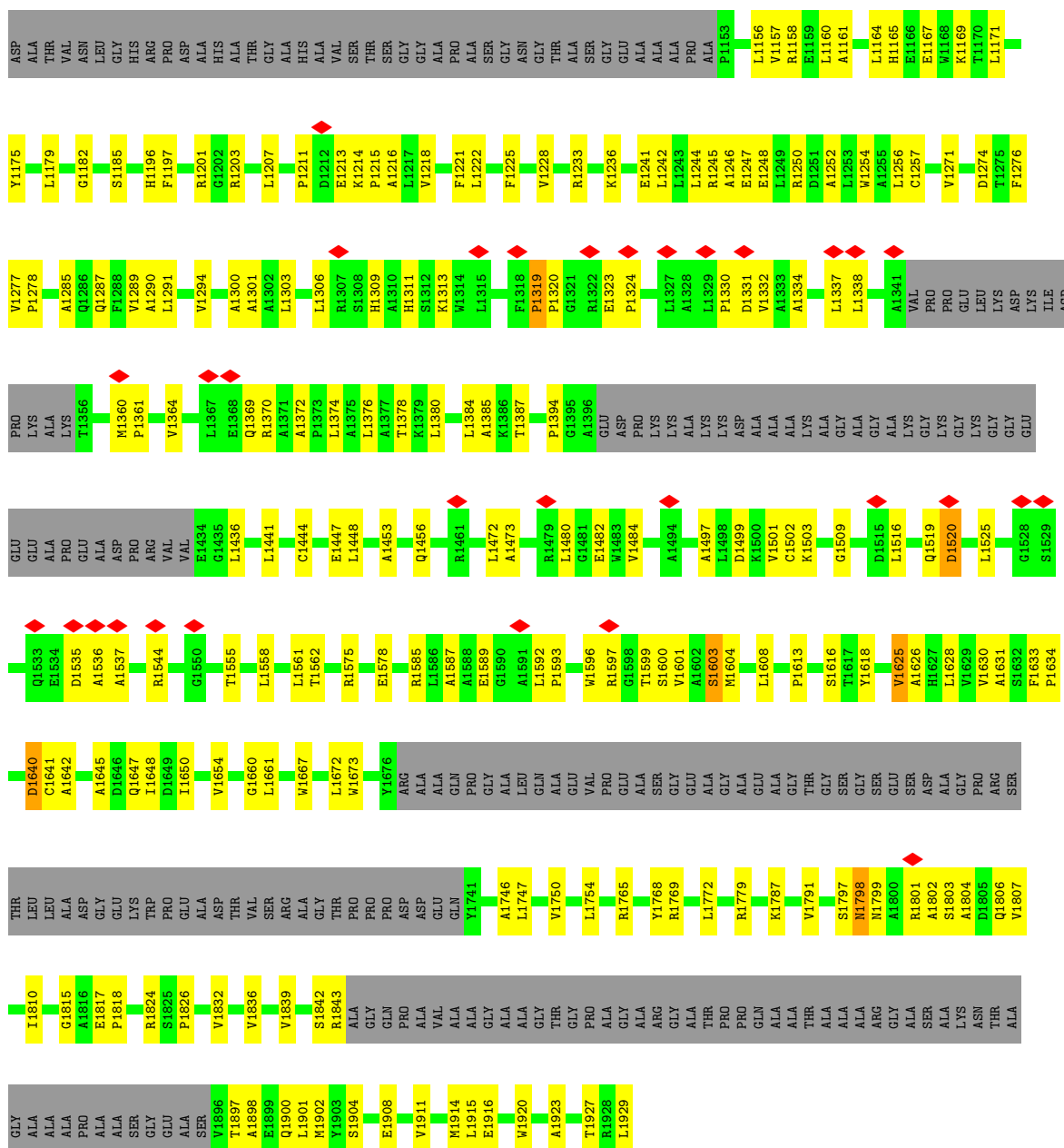
• Molecule 47: CPC1

Chain 6A:  20% 51% 28% 19%

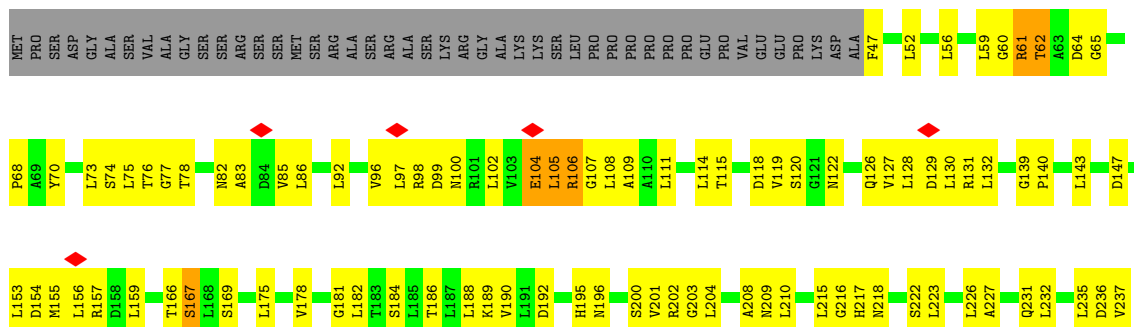


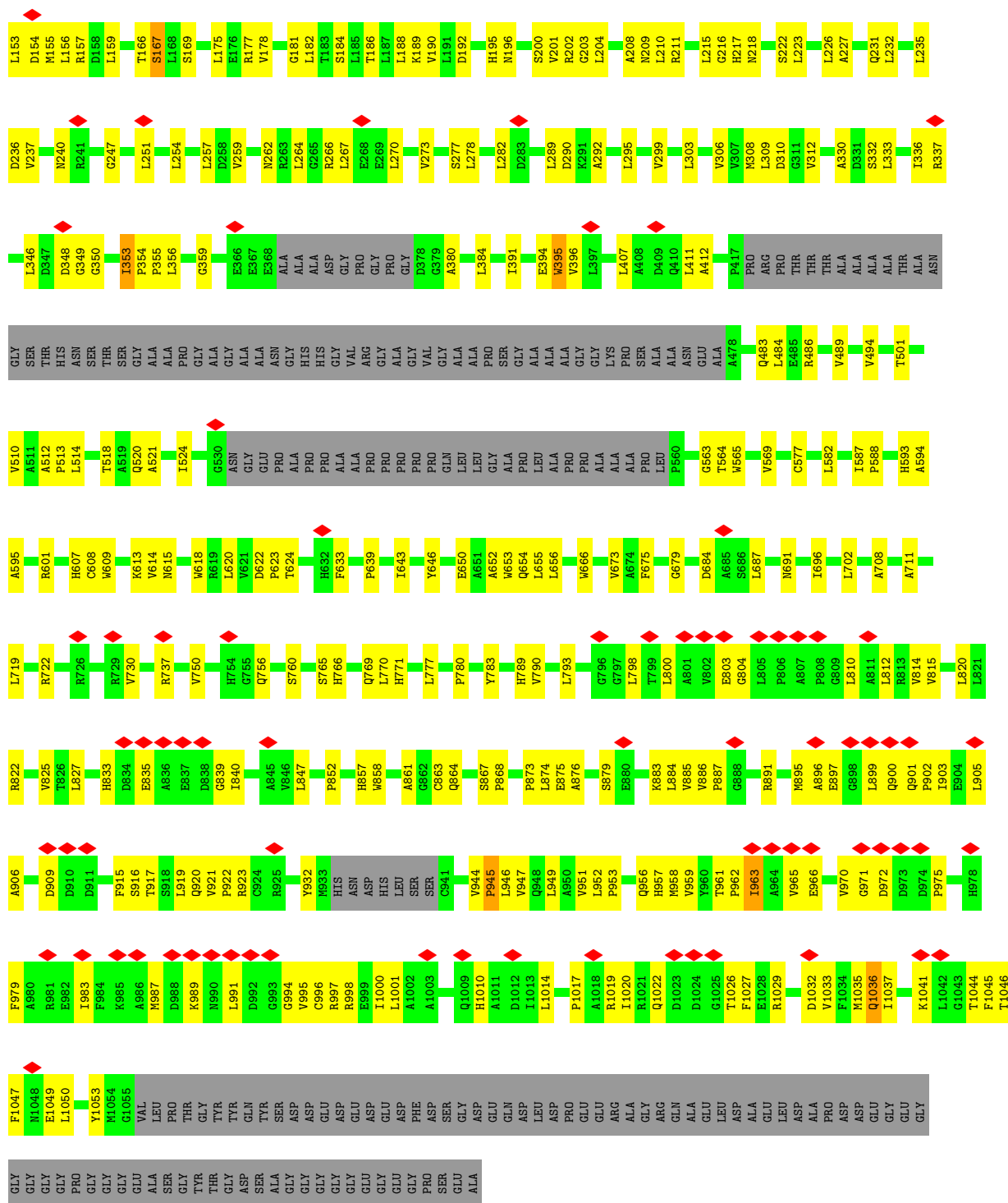




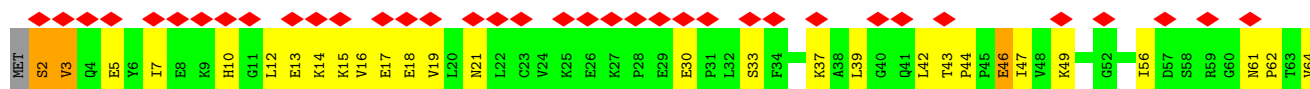


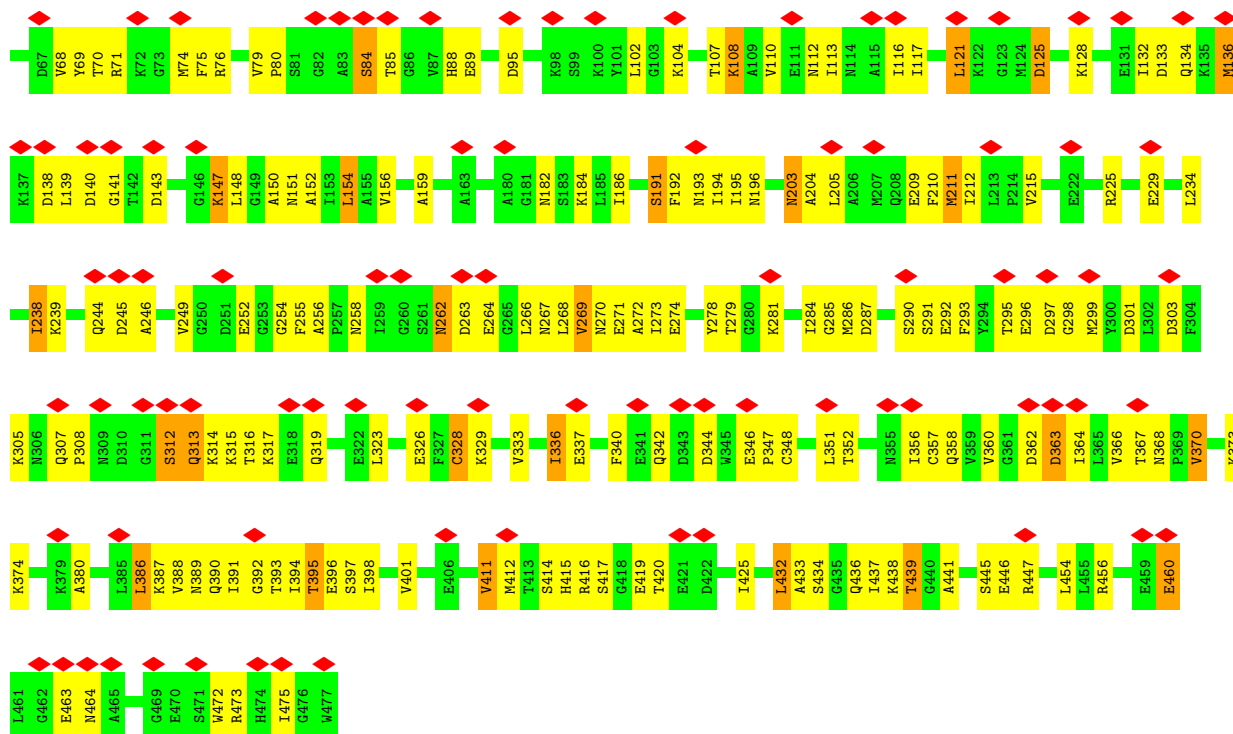
• Molecule 48: FAP246



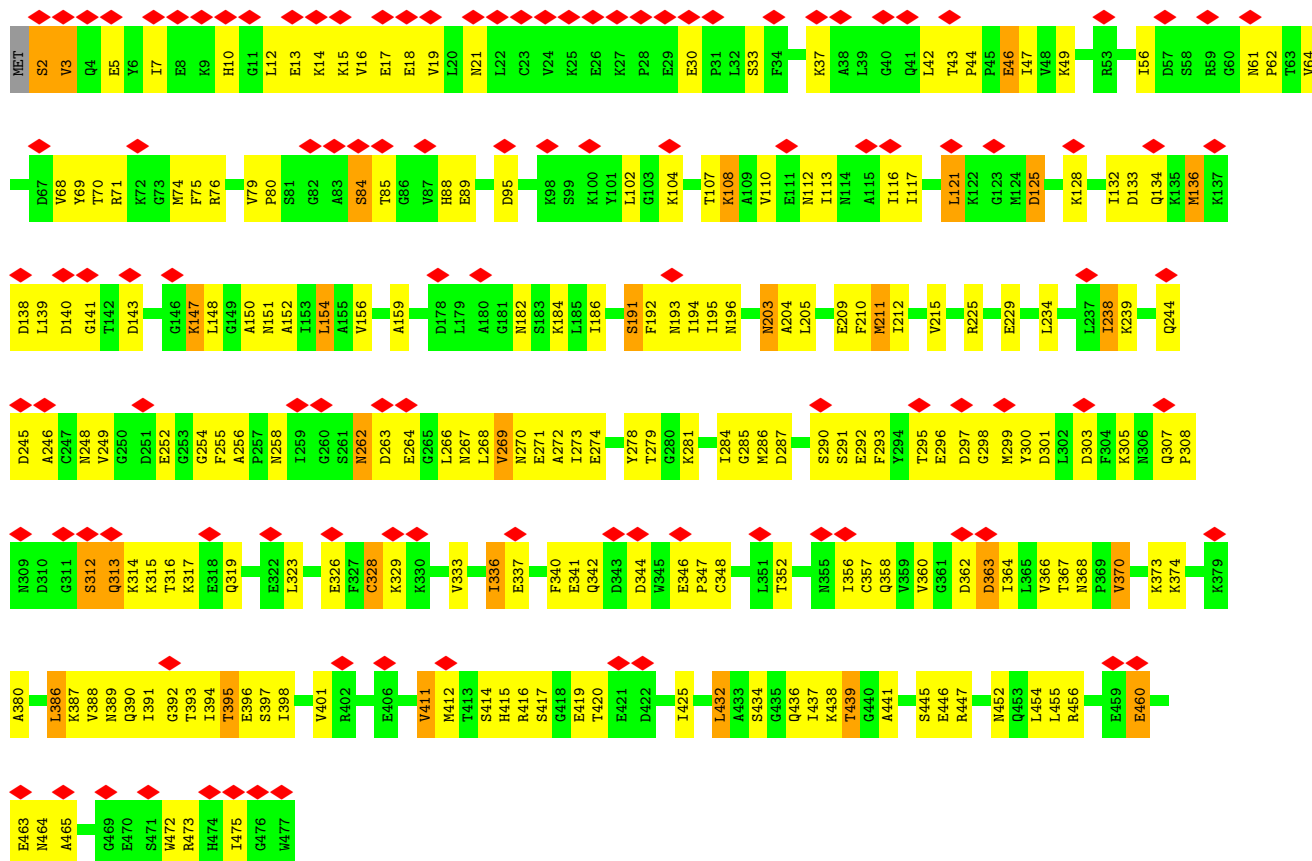


• Molecule 49: Phosphopyruvate hydratase

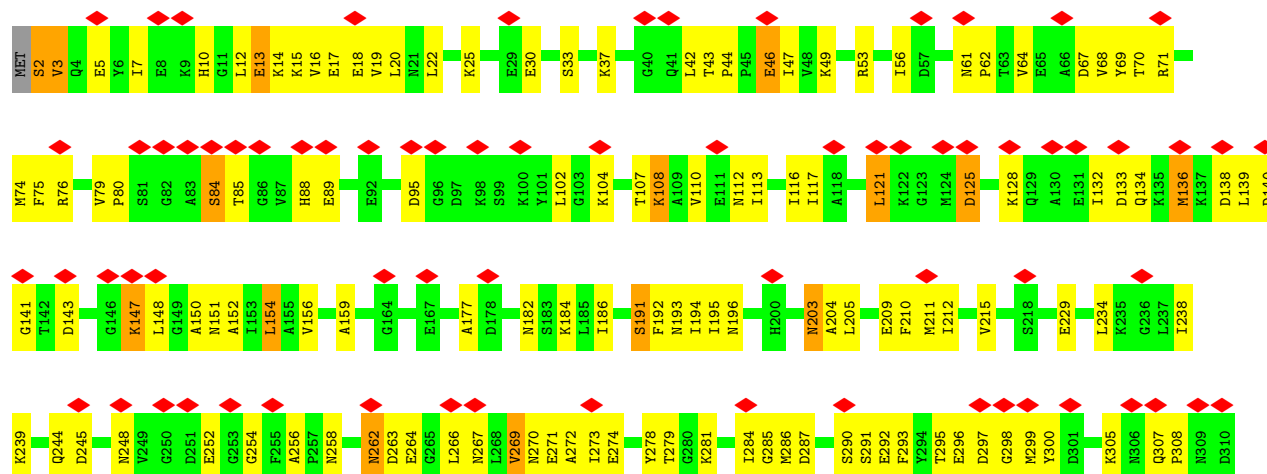


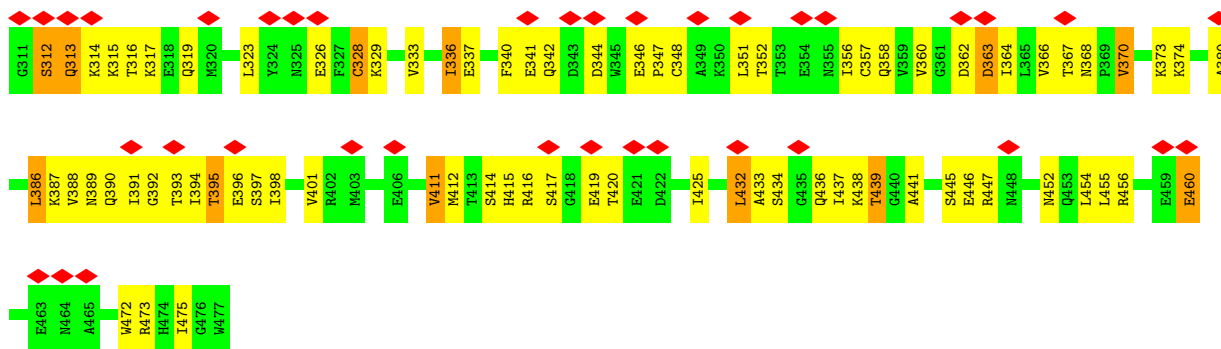


• Molecule 49: Phosphopyruvate hydratase

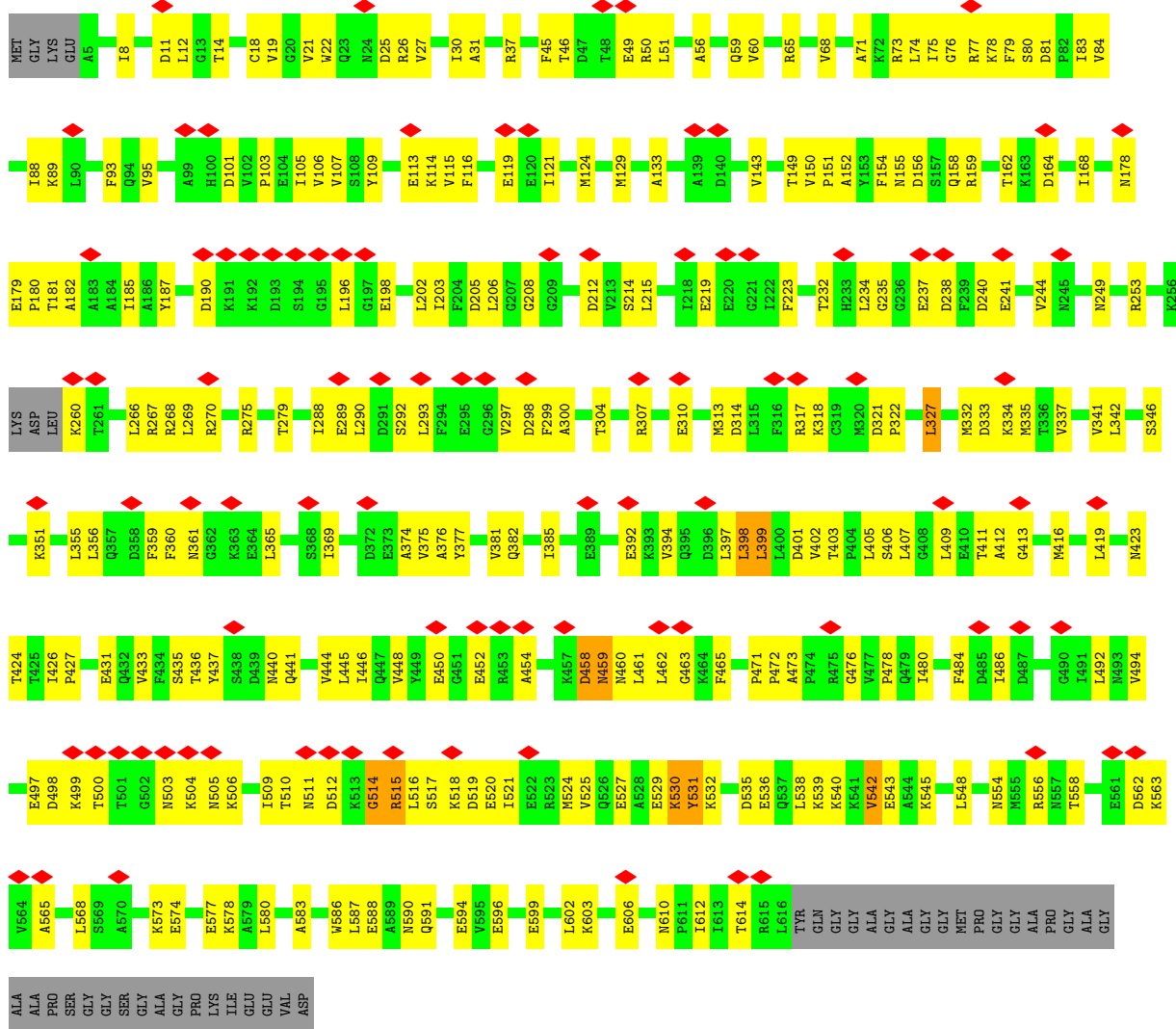


Chain 6I:



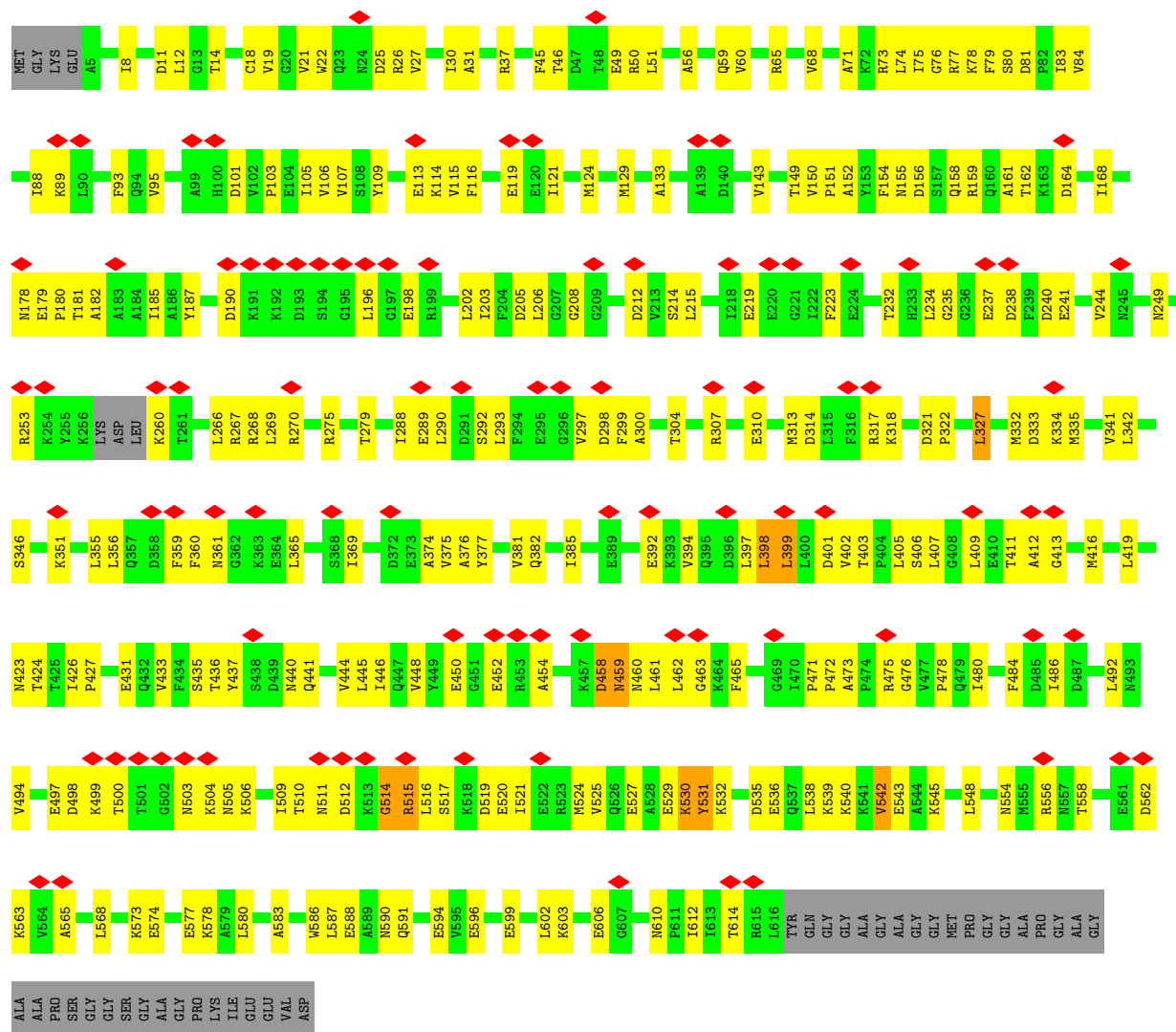


- Molecule 50: Heat shock protein 70A



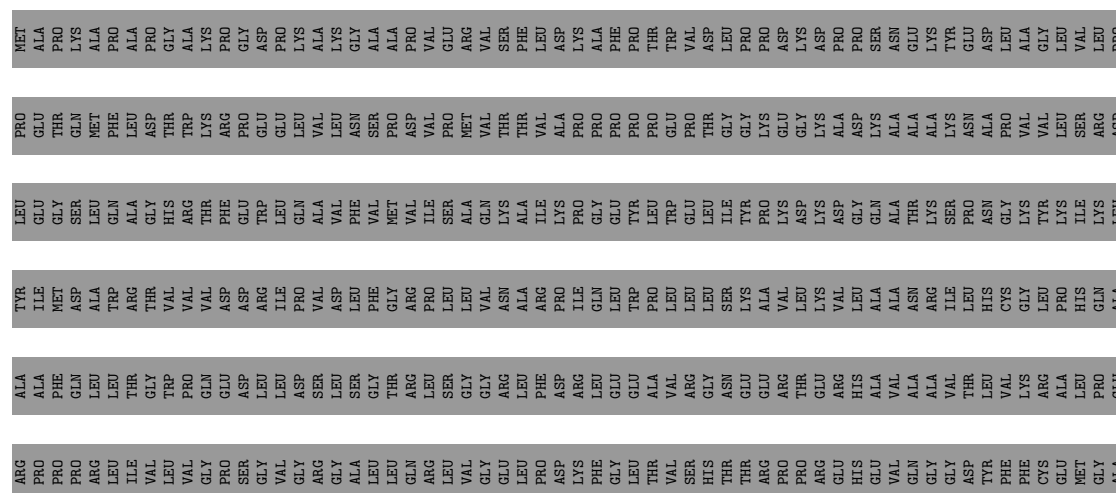
- Molecule 50: Heat shock protein 70A





Molecule 51: FAP42

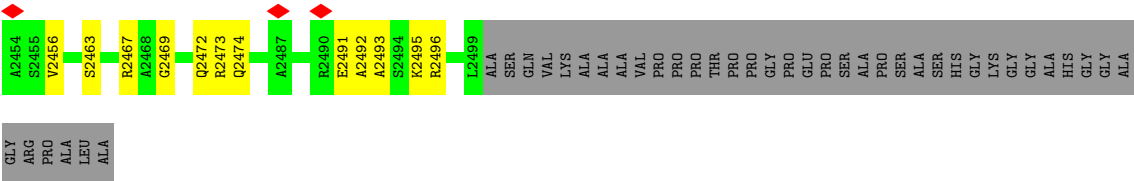
Chain 6M: 28% 14% 58%



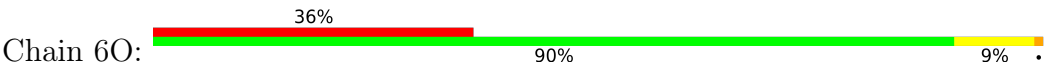




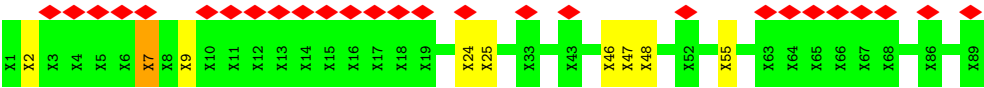
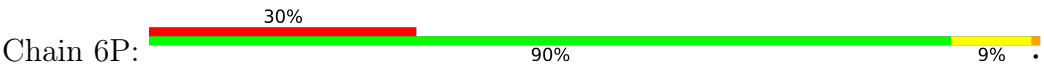
A2361	V2289	G2106	L2014	V1908	A1843	GLN	M1664	Y1547	S1421	L1346	M1264
L2365	A2290	T2107	P2022	V1909	D1846	ALA	L1674	P1551	D1422	L1347	P1265
Y2368	S2292	C2114	P2029	A1910	A1850	GLY	E1678	E1552	A1423	E1351	H1267
V2372	A2293	T2115	L2030	R1916	L1851	HIS	D1681	L1556	L1428	H1352	N1268
A2373	D2294	S2116	R2031	A1917	L1851	PRO	G1682	L1587	R1429	L1355	V1269
N2374	E2295	G2120	Y2032	A1918	ALA	GLY	H1683	F1561	C1436	G1270	D1271
GLY	K2296	A2121	C2033	A1919	ALA	LEU	V1687	R1446	L1437	R1362	E1276
GLY	C2298	A2035	A2034	S1921	ALA	ALA	S1688	F1449	R1438	D1365	V1277
ALA	T2299	L2036	F2034	A1922	ASN	GLN	R1689	G1586	D1378	T1368	K1279
ALA	V2300	L2037	R1923	R1924	LYS	PRO	K1700	Q1451	E1275	K1280	V1281
ALA	L2306	H2037	R1924	P1925	PRO	SER	V1703	Q1451	E1276	T1281	P1282
ALA	H2038	Q2038	Q1928	Q1928	ARG	THR	V1704	Q1451	E1277	Y1372	L1283
ALA	T2041	T2041	E1936	E1936	ALA	ASP	E1705	E1454	E1278	M1374	G1284
ALA	A2044	A2044	V1940	V1940	VAL	LEU	H1589	E1454	E1279	P1375	K1288
ALA	Y2045	Y2045	G1945	G1945	THR	HIS	V1592	E1455	E1280	ASP	E1289
ALA	S2047	S2047	P1947	P1947	PRO	GLY	L1593	E1456	E1281	Y1290	M1291
ALA	I2048	I2048	G1948	G1948	GLN	THR	R1594	E1457	E1282	N1378	D1292
ALA	E2051	E2052	R1949	R1949	GLY	GLU	E1605	E1459	E1283	A1293	E1293
ALA	D2052	D2052	THR	THR	THR	SER	L1606	E1464	E1284	S1294	K1295
ALA	A2055	A2055	ALA	ALA	GLY	GLY	V1610	E1467	E1285	P1385	K1295
ALA	A2056	A2056	GLY	GLY	ALA	ALA	T1611	V1468	E1286	Q1387	D1299
ALA	T2057	T2057	ALA	ALA	ALA	HIS	S1612	T1471	E1287	P1388	R1300
ALA	R2058	R2058	ALA	ALA	ALA	GLY	R1613	E1389	E1288	R1390	F1303
ALA	L2059	L2059	A1959	A1959	ALA	THR	P1614	S1472	E1289	P1391	E1304
ALA	L2060	L2060	N1960	N1960	ALA	ALA	L1615	L1473	E1290	R1392	E1304
ALA	L2061	L2061	A1961	A1961	ALA	GLU	R1616	E1474	E1291	D1393	E1304
ALA	M2062	M2062	ALA	ALA	ALA	ALA	R1617	E1475	E1292	R1394	R1309
ALA	D2063	D2063	ALA	ALA	ALA	ALA	R1618	E1478	E1293	D1314	C1315
ALA	R2064	R2064	ALA	ALA	ALA	ALA	T1622	Y1479	E1294	N1394	C1315
ALA	R2070	R2070	ALA	ALA	ALA	ALA	R1623	V1479	E1295	D1396	L1321
ALA	P2073	P2073	ALA	ALA	ALA	ALA	V1624	L1484	E1296	L1322	L1322
ALA	S2074	S2074	ALA	ALA	ALA	ALA	V1625	E1484	E1297	D1323	D1323
ALA	N2075	N2075	ALA	ALA	ALA	ALA	D1632	Q1493	E1298	A1401	G1324
ALA	R2076	R2076	ALA	ALA	ALA	ALA	G1633	Q1495	E1299	L1406	F1325
ALA	L2077	L2077	ALA	ALA	ALA	ALA	T1634	D1498	E1300	H1407	E1330
ALA	T2078	T2078	ALA	ALA	ALA	ALA	G1635	G1499	E1301	E1333	E1334
ALA	T2080	T2080	ALA	ALA	ALA	ALA	V1638	R1500	E1302	D1408	L1335
ALA	E2081	E2081	ALA	ALA	ALA	ALA	Q1817	T1501	E1303	D1409	S1410
ALA	Y2089	Y2089	ALA	ALA	ALA	ALA	R1818	Y1502	E1304	S1410	D1411
ALA	C2090	C2090	ALA	ALA	ALA	ALA	E1819	W1503	E1305	G1336	R1337
ALA	A2093	A2093	ALA	ALA	ALA	ALA	A1820	V1504	E1306	R1338	G1339
ALA	R2100	R2100	ALA	ALA	ALA	ALA	A1821	D1505	E1307	S1411	P1342
ALA	G2101	G2101	ALA	ALA	ALA	ALA	A1822	V1509	E1308	V1414	K1343
ALA	N2103	N2103	ALA	ALA	ALA	ALA	V1825	Q1531	E1309	S1415	V1345
ALA	E2104	E2104	ALA	ALA	ALA	ALA	A1828	R1532	E1310	R1417	K1344
ALA	E2105	E2105	ALA	ALA	ALA	ALA	R1832	R1533	E1311	A1419	V1345
ALA	G2106	G2106	ALA	ALA	ALA	ALA	D1662	A1663	E1312	L1420	
ALA	T2107	T2107	ALA	ALA	ALA	ALA			E1313		
ALA	C2114	C2114	ALA	ALA	ALA	ALA			E1314		
ALA	T2115	T2115	ALA	ALA	ALA	ALA			E1315		
ALA	S2116	S2116	ALA	ALA	ALA	ALA			E1316		
ALA	G2120	G2120	ALA	ALA	ALA	ALA			E1317		
ALA	A2121	A2121	ALA	ALA	ALA	ALA			E1318		
ALA	V2131	V2131	ALA	ALA	ALA	ALA			E1319		
ALA	L2136	L2136	ALA	ALA	ALA	ALA			E1320		
ALA	D2137	D2137	ALA	ALA	ALA	ALA			E1321		
ALA	S2138	S2138	ALA	ALA	ALA	ALA			E1322		
ALA	F2139	F2139	ALA	ALA	ALA	ALA			E1323		
ALA	V2140	V2140	ALA	ALA	ALA	ALA			E1324		
ALA	N2146	N2146	ALA	ALA	ALA	ALA			E1325		
ALA	A2149	A2149	ALA	ALA	ALA	ALA			E1326		
ALA	T2150	T2150	ALA	ALA	ALA	ALA			E1327		
ALA	L2151	L2151	ALA	ALA	ALA	ALA			E1328		
ALA	S2152	S2152	ALA	ALA	ALA	ALA			E1329		
ALA	V2155	V2155	ALA	ALA	ALA	ALA			E1330		
ALA	L2164	L2164	ALA	ALA	ALA	ALA			E1331		
ALA	A2165	A2165	ALA	ALA	ALA	ALA			E1332		
ALA	T2166	T2166	ALA	ALA	ALA	ALA			E1333		
ALA	V2167	V2167	ALA	ALA	ALA	ALA			E1334		
ALA	A2168	A2168	ALA	ALA	ALA	ALA			E1335		
ALA	A2169	A2169	ALA	ALA	ALA	ALA			E1336		
ALA	P2172	P2172	ALA	ALA	ALA	ALA			E1337		
ALA	R2173	R2173	ALA	ALA	ALA	ALA			E1338		
ALA	L2174	L2174	ALA	ALA	ALA	ALA			E1339		
ALA	P2175	P2175	ALA	ALA	ALA	ALA			E1340		
ALA	Q2181	Q2181	ALA	ALA	ALA	ALA			E1341		
ALA	E2182	E2182	ALA	ALA	ALA	ALA			E1342		
ALA	A2183	A2183	ALA	ALA	ALA	ALA			E1343		
ALA	E2188	E2188	ALA	ALA	ALA	ALA			E1344		
ALA	T2189	T2189	ALA	ALA	ALA	ALA			E1345		
ALA	T2190	T2190	ALA	ALA	ALA	ALA			E1346		
ALA	T2191	T2191	ALA	ALA	ALA	ALA			E1347		
ALA	T2192	T2192	ALA	ALA	ALA	ALA			E1348		
ALA	T2193	T2193	ALA	ALA	ALA	ALA			E1349		
ALA	S2194	S2194	ALA	ALA	ALA	ALA			E1350		
ALA	Y2197	Y2197	ALA	ALA	ALA	ALA			E1351		
ALA	P2198	P2198	ALA	ALA	ALA	ALA			E1352		
ALA	A2203	A2203	ALA	ALA	ALA	ALA			E1353		
ALA	R2207	R2207	ALA	ALA	ALA	ALA			E1354		
ALA	V2214	V2214	ALA	ALA	ALA	ALA			E1355		
ALA	Y2215	Y2215	ALA	ALA	ALA	ALA			E1356		
ALA	G2216	G2216	ALA	ALA	ALA	ALA			E1357		
ALA	T2217	T2217	ALA	ALA	ALA	ALA			E1358		
ALA	R2218	R2218	ALA	ALA	ALA	ALA			E1359		
ALA	E2219	E2219	ALA	ALA	ALA	ALA			E1360		
ALA	G2220	G2220	ALA	ALA	ALA	ALA			E1361		
ALA	T2221	T2221	ALA	ALA	ALA	ALA			E1362		
ALA	R2222	R2222	ALA	ALA	ALA	ALA			E1363		
ALA	E2223	E2223	ALA	ALA	ALA	ALA			E1364		
ALA	G2224	G2224	ALA	ALA	ALA	ALA			E1365		
ALA	T2225	T2225	ALA	ALA	ALA	ALA			E1366		
ALA	R2226	R2226	ALA	ALA	ALA	ALA			E1367		
ALA	E2227	E2227	ALA	ALA	ALA	ALA			E1368		
ALA	G2228	G2228	ALA	ALA	ALA	ALA			E1369		
ALA	T2229	T2229	ALA	ALA	ALA	ALA			E1370		
ALA	R2230	R2230	ALA	ALA	ALA	ALA			E1371		
ALA	G2231	G2231	ALA	ALA	ALA	ALA			E1372		
ALA	T2232	T2232	ALA	ALA	ALA	ALA			E1373		
ALA	R2233	R2233	ALA	ALA	ALA	ALA			E1374		
ALA	L2241	L2241	ALA	ALA	ALA	ALA			E1375		
ALA	V2242	V2242	ALA	ALA	ALA	ALA			E1376		
ALA	L2247	L2247	ALA	ALA	ALA	ALA			E1377		
ALA	K2248	K2248	ALA	ALA	ALA	ALA			E1378		
ALA	R2251	R2251	ALA	ALA	ALA	ALA			E1379		
ALA	Y2252	Y2252	ALA	ALA	ALA	ALA			E1380		
ALA	C2256	C2256	ALA	ALA	ALA	ALA			E1381		
ALA	T2257	T2257	ALA	ALA	ALA	ALA			E1382		
ALA	L2258	L2258	ALA	ALA	ALA	ALA			E1383		
ALA	D2259	D2259	ALA	ALA	ALA	ALA			E1384		
ALA	A2260	A2260	ALA	ALA	ALA	ALA			E1385		
ALA	D2262	D2262	ALA	ALA	ALA	ALA			E1386		
ALA	C2263	C2263	ALA	ALA	ALA	ALA			E1387		
ALA	T2264	T2264	ALA	ALA	ALA	ALA			E1388		
ALA	G2266	G2266	ALA	ALA	ALA	ALA			E1389		
ALA	R2267	R2267	ALA	ALA	ALA	ALA			E1390		
ALA	D2270	D2270	ALA	ALA	ALA	ALA			E1391		
ALA	P2271	P2271	ALA	ALA	ALA	ALA			E1392		
ALA	R2272	R2272	ALA	ALA	ALA	ALA			E1393		
ALA	T2273	T2273	ALA	ALA	ALA	ALA			E1394		
ALA	G2274	G2274	ALA	ALA	ALA	ALA			E1395		
ALA	A2275	A2275	ALA	ALA	ALA	ALA			E1396		
ALA	L2276	L2276	ALA	ALA	ALA	ALA			E1397		
ALA	P2277	P2277	ALA	ALA	ALA	ALA			E1398		
ALA	E2278	E2278	ALA	ALA	ALA	ALA			E1399		
ALA	G2279	G2279	ALA	ALA	ALA	ALA			E1400		
ALA	A2280	A2280	ALA	ALA	ALA	ALA			E1401		
ALA	E2281	E2281	ALA	ALA	ALA	ALA			E1402		
ALA	P2282	P2282	ALA	ALA	ALA	ALA			E1403		
ALA	V2283	V2283	ALA	ALA	ALA	ALA			E1404		
ALA	K2284	K2284	ALA	ALA	ALA	ALA			E1405		
ALA	R2285	R2285	ALA	ALA							



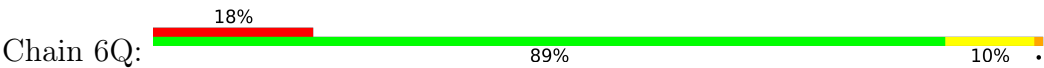
• Molecule 52: Unknown protein



• Molecule 52: Unknown protein



• Molecule 52: Unknown protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	190727	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	38.6	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	9.598	Depositor
Minimum map value	0.000	Depositor
Average map value	0.037	Depositor
Map value standard deviation	0.103	Depositor
Recommended contour level	0.5	Depositor
Map size ($\text{\AA}$)	1169.0691, 795.33936, 764.7494	wwPDB
Map dimensions	879, 598, 575	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.329999, 1.329999, 1.329999	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	0A	0.31	0/3578	0.49	1/4885 (0.0%)
1	0B	0.23	0/3578	0.47	0/4885
1	0C	0.20	0/3578	0.42	0/4885
1	0D	0.21	0/3578	0.45	0/4885
1	0E	0.26	0/3578	0.46	1/4885 (0.0%)
1	0F	0.26	0/3578	0.47	1/4885 (0.0%)
1	0G	0.22	0/3578	0.43	0/4885
1	0H	0.21	0/3578	0.45	0/4885
1	0I	0.21	0/3578	0.42	0/4885
1	0J	0.21	0/3578	0.42	0/4885
1	0K	0.21	0/3574	0.41	0/4881
1	0L	0.22	0/3578	0.44	0/4885
1	0M	0.20	0/3578	0.42	0/4885
1	0N	0.25	0/3578	0.47	1/4885 (0.0%)
1	0O	0.21	0/3578	0.43	0/4885
1	0P	0.21	0/3578	0.44	0/4885
1	0Q	0.23	0/3578	0.45	0/4885
1	0R	0.28	0/3575	0.47	1/4880 (0.0%)
1	0S	0.21	0/3578	0.43	0/4885
1	0T	0.20	0/3578	0.41	0/4885
1	0U	0.20	0/3578	0.42	0/4885
1	0V	0.22	0/3578	0.43	0/4885
1	0W	0.22	0/3578	0.43	0/4885
1	0X	0.23	0/3578	0.44	1/4885 (0.0%)
1	0Y	0.22	0/3578	0.47	0/4885
1	0Z	0.21	0/3578	0.43	0/4885
1	1A	0.22	0/3578	0.45	0/4885
1	1B	0.28	0/3578	0.48	0/4885
1	1C	0.22	0/3574	0.43	0/4881
2	1D	0.25	0/3240	0.60	4/4420 (0.1%)
2	1E	0.25	0/3240	0.58	3/4420 (0.1%)
2	1F	0.28	1/3319 (0.0%)	0.65	5/4529 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	1G	0.24	0/3319	0.60	4/4529 (0.1%)
3	1H	0.33	1/5878 (0.0%)	0.56	10/8010 (0.1%)
3	1I	0.21	0/5878	0.43	0/8010
3	6D	0.31	1/6127 (0.0%)	0.50	8/8328 (0.1%)
4	1J	0.23	0/2918	0.59	6/3984 (0.2%)
4	1K	0.23	0/2918	0.59	6/3984 (0.2%)
5	1L	0.22	0/3404	0.56	1/4660 (0.0%)
5	1M	0.22	0/3404	0.56	1/4660 (0.0%)
6	1N	0.23	1/16403 (0.0%)	0.46	5/22333 (0.0%)
7	1O	0.21	0/19999	0.44	1/27280 (0.0%)
8	1P	0.22	0/2329	0.49	1/3190 (0.0%)
9	1Q	0.30	0/2347	0.86	13/3241 (0.4%)
10	1R	0.28	0/2816	0.56	0/3832
10	1S	0.37	0/2034	0.72	5/2779 (0.2%)
11	1T	0.14	0/4794	0.25	0/6657
12	1a	0.21	0/3433	0.43	2/4646 (0.0%)
12	1c	0.17	0/3453	0.38	0/4673
12	1e	0.21	0/3433	0.42	2/4646 (0.0%)
12	1g	0.17	0/3453	0.38	0/4673
12	2a	0.19	0/3433	0.42	2/4646 (0.0%)
12	2c	0.17	0/3453	0.37	0/4673
12	2e	0.20	0/3433	0.41	2/4646 (0.0%)
12	2g	0.18	0/3453	0.38	0/4673
12	3a	0.29	3/3433 (0.1%)	0.45	2/4646 (0.0%)
12	3c	0.17	0/3453	0.37	0/4673
12	3e	0.20	0/3433	0.40	2/4646 (0.0%)
12	3g	0.17	0/3453	0.37	0/4673
12	4a	0.25	0/3433	0.45	2/4646 (0.0%)
12	4c	0.17	0/3453	0.38	0/4673
12	4e	0.18	0/3433	0.41	0/4646
12	4g	0.16	0/3453	0.36	0/4673
12	5a	0.22	0/3433	0.45	2/4646 (0.0%)
12	5c	0.17	0/3453	0.37	0/4673
12	5e	0.22	0/3433	0.43	0/4646
12	5g	0.16	0/3453	0.37	0/4673
12	6a	0.22	0/3433	0.43	0/4646
12	6c	0.17	0/3453	0.38	0/4673
12	6e	0.24	0/3433	0.47	2/4646 (0.0%)
12	6g	0.17	0/3453	0.37	0/4673
12	7a	0.21	0/3433	0.43	0/4646
12	7c	0.17	0/3453	0.39	0/4673
12	7e	0.23	0/3433	0.46	0/4646
12	7g	0.18	0/3453	0.39	0/4673

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
12	8a	0.22	0/3433	0.42	0/4646
12	8c	0.17	0/3453	0.39	0/4673
12	8e	0.21	0/3433	0.45	2/4646 (0.0%)
12	8g	0.17	0/3453	0.38	0/4673
12	9a	0.23	0/3433	0.46	3/4646 (0.1%)
12	9c	0.16	0/3453	0.37	0/4673
12	9e	0.22	0/3433	0.44	1/4646 (0.0%)
12	9g	0.17	0/3453	0.37	0/4673
12	Aa	0.24	0/3433	0.45	0/4646
12	Ac	0.19	0/3453	0.40	0/4673
12	Ae	0.22	0/3433	0.43	1/4646 (0.0%)
12	Ag	0.16	0/3453	0.37	0/4673
12	Ba	0.23	0/3433	0.45	2/4646 (0.0%)
12	Bc	0.18	0/3453	0.38	0/4673
12	Be	0.23	0/3433	0.45	2/4646 (0.0%)
12	Bg	0.20	0/3453	0.41	0/4673
12	Ca	0.23	0/3433	0.42	0/4646
12	Cc	0.18	0/3453	0.38	0/4673
12	Ce	0.25	0/3433	0.43	1/4646 (0.0%)
12	Cg	0.18	0/3453	0.38	0/4673
12	Da	0.24	0/3433	0.44	2/4646 (0.0%)
12	Dc	0.17	0/3453	0.37	0/4673
12	De	0.20	0/3433	0.42	2/4646 (0.0%)
12	Dg	0.18	0/3453	0.39	0/4673
13	1b	0.17	0/3410	0.36	0/4623
13	1d	0.17	0/3410	0.36	0/4623
13	1f	0.17	0/3410	0.36	0/4623
13	1h	0.16	0/3410	0.36	0/4623
13	2b	0.17	0/3410	0.36	0/4623
13	2d	0.17	0/3410	0.36	0/4623
13	2f	0.17	0/3410	0.36	0/4623
13	2h	0.17	0/3410	0.36	0/4623
13	3b	0.17	0/3410	0.36	0/4623
13	3d	0.17	0/3410	0.36	0/4623
13	3f	0.17	0/3410	0.36	0/4623
13	3h	0.17	0/3410	0.36	0/4623
13	4b	0.17	0/3410	0.36	0/4623
13	4d	0.17	0/3410	0.36	0/4623
13	4f	0.17	0/3410	0.36	0/4623
13	4h	0.17	0/3410	0.36	0/4623
13	5b	0.17	0/3410	0.36	0/4623
13	5d	0.17	0/3410	0.36	0/4623
13	5f	0.17	0/3410	0.36	0/4623

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
13	5h	0.17	0/3410	0.36	0/4623
13	6b	0.17	0/3410	0.36	0/4623
13	6d	0.17	0/3410	0.36	0/4623
13	6f	0.17	0/3410	0.36	0/4623
13	6h	0.17	0/3410	0.36	0/4623
13	7b	0.17	0/3410	0.36	0/4623
13	7d	0.17	0/3410	0.36	0/4623
13	7f	0.17	0/3410	0.36	0/4623
13	7h	0.17	0/3410	0.36	0/4623
13	8b	0.17	0/3410	0.36	0/4623
13	8d	0.17	0/3410	0.36	0/4623
13	8f	0.17	0/3410	0.36	0/4623
13	8h	0.17	0/3410	0.36	0/4623
13	9b	0.16	0/3410	0.36	0/4623
13	9d	0.17	0/3410	0.36	0/4623
13	9f	0.17	0/3410	0.36	0/4623
13	9h	0.17	0/3410	0.36	0/4623
13	Ab	0.17	0/3410	0.36	0/4623
13	Ad	0.17	0/3410	0.36	0/4623
13	Af	0.17	0/3410	0.36	0/4623
13	Ah	0.17	0/3410	0.36	0/4623
13	Bb	0.16	0/3410	0.36	0/4623
13	Bd	0.16	0/3410	0.36	0/4623
13	Bf	0.17	0/3410	0.36	0/4623
13	Bh	0.17	0/3410	0.36	0/4623
13	Cb	0.17	0/3410	0.36	0/4623
13	Cd	0.17	0/3410	0.36	0/4623
13	Cf	0.17	0/3410	0.36	0/4623
13	Ch	0.17	0/3410	0.36	0/4623
13	Db	0.17	0/3410	0.36	0/4623
13	Dd	0.17	0/3410	0.36	0/4623
13	Df	0.17	0/3410	0.36	0/4623
13	Dh	0.17	0/3410	0.36	0/4623
14	2F	0.27	0/1257	0.60	0/1700
14	2G	0.27	0/1257	0.60	0/1700
24	2S	0.18	0/521	0.34	0/726
24	2T	0.30	0/886	0.54	0/1193
24	2U	0.32	0/900	0.54	0/1213
24	2V	0.25	0/886	0.51	0/1193
28	3C	0.23	0/484	0.43	0/651
29	3E	0.37	0/682	0.58	0/926
30	3F	0.33	3/3405 (0.1%)	0.56	6/4572 (0.1%)
30	3G	0.26	0/1911	0.47	0/2553

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
31	3H	0.20	0/1966	0.32	0/2686
31	3I	0.23	0/3146	0.43	1/4233 (0.0%)
32	3J	0.24	0/2849	0.49	0/3878
32	3K	0.24	0/2824	0.45	0/3845
33	3L	0.26	0/1597	0.45	0/2147
34	3M	0.26	0/3035	0.52	0/4097
34	3N	0.25	0/3089	0.51	1/4173 (0.0%)
34	3O	0.26	0/2819	0.50	0/3798
34	3P	0.26	0/2841	0.49	0/3827
34	3Q	0.25	0/2819	0.48	0/3798
34	3R	0.26	0/2860	0.45	0/3853
34	3S	0.24	0/3035	0.50	0/4097
34	3T	0.27	0/3089	0.54	1/4173 (0.0%)
34	3U	0.27	0/2841	0.47	0/3827
34	3V	0.24	0/3244	0.48	2/4381 (0.0%)
34	3W	0.23	0/3250	0.44	0/4389
34	3X	0.24	0/2860	0.48	0/3853
34	3Y	0.25	0/2860	0.44	1/3853 (0.0%)
34	3Z	0.25	0/2860	0.50	0/3853
34	4A	0.23	0/3244	0.46	3/4381 (0.1%)
34	4B	0.23	0/3250	0.46	2/4389 (0.0%)
35	4C	0.30	0/4954	0.61	1/6754 (0.0%)
36	4D	0.31	0/2424	0.60	4/3278 (0.1%)
37	4E	1.20	61/7406 (0.8%)	1.12	79/10145 (0.8%)
37	4F	1.57	81/7235 (1.1%)	1.36	147/9923 (1.5%)
37	4G	1.34	74/7235 (1.0%)	1.31	137/9923 (1.4%)
37	4H	1.24	71/7235 (1.0%)	1.25	125/9923 (1.3%)
38	4I	1.87	17/501 (3.4%)	2.27	31/681 (4.6%)
38	4J	1.87	18/501 (3.6%)	2.27	31/681 (4.6%)
38	4K	1.87	18/501 (3.6%)	2.27	31/681 (4.6%)
38	4L	1.87	18/501 (3.6%)	2.27	31/681 (4.6%)
38	4M	1.87	17/501 (3.4%)	2.27	31/681 (4.6%)
38	4N	1.87	18/501 (3.6%)	2.27	31/681 (4.6%)
38	4O	0.40	0/639	0.86	3/876 (0.3%)
38	4P	0.32	0/433	0.60	0/589
39	4Q	0.25	0/1813	0.56	0/2442
39	4R	0.25	0/1813	0.56	0/2442
39	4S	0.24	0/1813	0.56	0/2442
40	4T	0.24	0/4582	0.58	0/6245
40	4U	0.24	0/4582	0.58	0/6245
40	4V	0.24	0/4582	0.58	0/6245
41	4W	0.20	0/595	0.49	0/816
41	4X	0.21	0/595	0.58	0/816

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
41	4Y	0.20	0/595	0.59	0/816
41	4Z	0.22	0/595	0.62	0/816
41	5A	2.66	21/590 (3.6%)	2.45	45/809 (5.6%)
41	5B	0.19	0/590	0.63	0/809
41	5C	0.19	0/590	0.63	0/809
41	5D	0.19	0/590	0.64	0/809
42	5E	0.26	0/1599	0.52	0/2187
42	5F	0.26	0/1599	0.52	0/2187
42	5G	0.26	0/1599	0.52	0/2187
42	5H	3.22	63/1345 (4.7%)	2.24	75/1833 (4.1%)
43	5I	1.56	30/1631 (1.8%)	1.54	37/2219 (1.7%)
43	5J	1.56	30/1631 (1.8%)	1.54	35/2219 (1.6%)
43	5K	1.56	30/1631 (1.8%)	1.54	37/2219 (1.7%)
43	5L	1.56	30/1631 (1.8%)	1.54	37/2219 (1.7%)
44	5M	0.20	0/698	0.43	0/969
44	5N	0.20	0/698	0.43	0/969
44	5O	0.20	0/698	0.43	0/969
44	5P	0.24	0/1166	0.46	0/1563
44	5Q	0.25	0/1166	0.46	0/1563
44	5R	0.25	0/1166	0.47	0/1563
44	5S	0.23	0/1157	0.49	1/1551 (0.1%)
44	5T	0.24	0/1157	0.49	1/1551 (0.1%)
44	5U	0.26	0/1157	0.53	2/1551 (0.1%)
44	5V	0.26	0/1178	0.47	0/1580
46	5Z	0.19	0/270	0.37	0/367
47	6A	0.31	0/12005	0.74	15/16230 (0.1%)
47	6B	0.31	0/12005	0.74	15/16230 (0.1%)
48	6E	0.23	0/7053	0.58	4/9607 (0.0%)
48	6F	0.23	0/7053	0.58	4/9607 (0.0%)
49	6G	0.28	0/3663	0.67	1/4941 (0.0%)
49	6H	0.28	0/3663	0.67	1/4941 (0.0%)
49	6I	0.28	0/3663	0.67	1/4941 (0.0%)
49	6J	0.28	0/3663	0.67	1/4941 (0.0%)
50	6K	0.24	0/4798	0.58	0/6478
50	6L	0.24	0/4798	0.58	0/6478
51	6M	0.23	0/8204	0.54	1/11178 (0.0%)
51	6N	0.23	0/8204	0.54	1/11178 (0.0%)
52	6O	0.21	0/33	0.93	0/44
52	6P	0.22	0/33	0.93	0/44
52	6Q	0.21	0/33	0.93	0/44
All	All	0.41	607/793581 (0.1%)	0.56	1126/1077552 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0B	0	1
1	0D	0	1
1	0F	0	1
1	0G	0	1
1	0I	0	1
1	0K	0	1
1	0M	0	1
1	0O	0	1
1	0Q	0	1
1	0S	0	1
1	0U	0	1
1	0V	0	1
1	0W	0	1
1	0Y	0	1
1	1A	0	1
1	1C	0	1
2	1D	0	4
2	1E	0	4
2	1F	0	4
2	1G	0	4
3	1H	0	3
3	1I	0	3
3	6D	0	2
4	1J	0	7
4	1K	0	7
5	1L	0	8
5	1M	0	8
6	1N	0	2
7	1O	0	8
8	1P	0	1
9	1Q	0	16
10	1R	0	4
10	1S	0	7
11	1T	0	2
12	1a	0	1
12	1e	0	1
12	2a	0	1
12	2e	0	1
12	3e	0	1
12	5e	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
12	6a	0	1
12	6e	0	1
12	7a	0	1
12	7e	0	1
12	8a	0	1
12	8e	0	1
12	9a	0	1
12	Aa	0	1
12	Be	0	1
12	Ce	0	1
12	Da	0	1
14	2F	0	2
14	2G	0	2
15	2H	0	10
16	2I	0	4
17	2J	0	7
17	2K	0	4
18	2L	0	7
20	2N	0	1
21	2O	0	3
22	2P	0	3
23	2R	0	1
24	2T	0	1
24	2U	0	1
24	2V	0	1
25	2W	0	3
25	2X	0	2
30	3F	0	2
31	3I	0	1
32	3J	0	3
32	3K	0	2
33	3L	0	2
35	4C	0	8
36	4D	0	1
37	4E	0	18
37	4F	0	20
37	4G	1	24
37	4H	0	25
38	4I	0	8
38	4J	0	8
38	4K	0	8
38	4L	0	8

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Mol	Chain	#Chirality outliers	#Planarity outliers
38	4M	0	8
38	4N	0	8
38	4O	0	4
38	4P	0	1
40	4T	0	8
40	4U	0	8
40	4V	0	8
41	4X	0	1
41	4Y	0	1
41	4Z	0	1
41	5A	0	7
41	5B	0	1
41	5C	0	1
41	5D	0	1
42	5H	0	13
43	5I	0	5
43	5J	0	5
43	5K	0	5
43	5L	0	5
44	5V	0	1
45	5W	0	2
45	5X	0	2
45	5Y	0	2
46	5Z	0	2
47	6A	0	12
47	6B	0	12
48	6E	0	6
48	6F	0	6
49	6G	0	1
49	6H	0	1
49	6I	0	1
49	6J	0	1
50	6K	0	5
50	6L	0	5
51	6M	0	6
51	6N	0	6
52	6O	0	4
52	6P	0	4
52	6Q	0	4
All	All	1	491

All (607) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	5H	135	ARG	CB-CG	49.57	3.01	1.52
37	4G	690	CYS	CB-SG	43.99	3.26	1.81
41	5A	120	TYR	CA-C	41.01	2.04	1.52
37	4F	1333	VAL	CA-C	39.93	1.99	1.52
42	5H	137	TYR	CB-CG	39.69	2.38	1.51
42	5H	135	ARG	CG-CD	36.46	2.61	1.52
37	4H	1091	VAL	CA-C	34.50	1.96	1.52
37	4F	1083	ILE	N-CA	31.52	1.85	1.46
43	5L	44	THR	C-N	31.11	1.77	1.33
43	5J	44	THR	C-N	31.10	1.77	1.33
43	5I	44	THR	C-N	31.08	1.76	1.33
43	5K	44	THR	C-N	31.05	1.76	1.33
37	4G	854	TYR	CD2-CE2	30.32	2.29	1.38
37	4H	1091	VAL	CA-CB	29.96	1.95	1.54
37	4F	1082	LEU	CB-CG	29.10	2.11	1.53
37	4H	1323	ILE	CB-CG2	28.79	2.47	1.52
37	4F	1082	LEU	CG-CD1	28.78	2.47	1.52
37	4H	1323	ILE	CG1-CD1	28.18	2.61	1.51
42	5H	137	TYR	CA-CB	27.81	2.00	1.53
37	4E	582	GLN	CA-C	-27.69	1.16	1.52
37	4F	1322	ARG	C-N	27.66	1.71	1.33
37	4F	1333	VAL	C-N	27.23	1.71	1.33
37	4F	1334	GLU	N-CA	26.52	1.80	1.46
42	5H	139	LEU	CB-CG	26.25	2.06	1.53
37	4E	589	PRO	C-N	26.04	1.66	1.33
37	4F	1082	LEU	C-N	26.00	1.69	1.33
37	4F	1323	ILE	CA-C	25.45	1.85	1.52
37	4E	577	LEU	C-N	25.38	1.69	1.33
37	4G	1082	LEU	C-N	24.55	1.66	1.33
37	4F	1323	ILE	N-CA	24.05	1.76	1.46
37	4F	1323	ILE	C-N	23.80	1.64	1.33
42	5H	158	MET	CB-CG	23.29	2.22	1.52
37	4G	1083	ILE	CA-C	22.34	1.80	1.52
37	4E	587	ALA	N-CA	22.09	1.77	1.46
37	4E	590	LYS	N-CA	22.07	1.70	1.46
42	5H	136	HIS	N-CA	21.83	1.74	1.46
37	4F	1082	LEU	CA-C	20.59	1.80	1.52
37	4E	583	GLU	CA-C	19.56	1.78	1.52
37	4G	1083	ILE	N-CA	19.09	1.69	1.46
37	4H	1084	ARG	CB-CG	19.02	2.09	1.52
37	4H	1091	VAL	C-N	19.00	1.60	1.33
37	4G	1323	ILE	CA-CB	18.43	1.79	1.54
42	5H	139	LEU	CG-CD2	18.31	2.12	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	5A	140	GLU	C-N	18.25	1.59	1.33
37	4E	578	ASP	N-CA	17.95	1.69	1.46
37	4F	1322	ARG	CA-C	17.63	1.74	1.53
37	4G	1084	ARG	CB-CG	17.39	2.04	1.52
37	4E	581	LEU	CG-CD2	-17.29	0.95	1.52
42	5H	135	ARG	C-N	17.16	1.57	1.33
37	4G	1333	VAL	CA-C	16.95	1.74	1.52
37	4F	1073	LEU	C-N	16.80	1.56	1.33
37	4E	580	GLU	N-CA	16.75	1.68	1.46
42	5H	135	ARG	CA-C	16.44	1.74	1.52
37	4F	1082	LEU	CG-CD2	-16.33	0.98	1.52
42	5H	134	LEU	C-N	16.20	1.56	1.33
41	5A	141	ASN	N-CA	16.18	1.67	1.46
42	5H	137	TYR	CA-C	16.15	1.74	1.52
37	4F	1093	VAL	CA-C	16.15	1.73	1.52
42	5H	135	ARG	N-CA	16.11	1.67	1.46
37	4F	1322	ARG	N-CA	-15.98	1.24	1.46
37	4G	1334	GLU	CA-C	15.86	1.74	1.52
37	4E	581	LEU	CA-CB	15.75	1.80	1.53
37	4G	1333	VAL	CB-CG2	-15.74	1.00	1.52
37	4F	1082	LEU	CA-CB	15.65	1.79	1.53
37	4E	581	LEU	C-N	15.64	1.53	1.33
37	4G	1334	GLU	N-CA	15.58	1.66	1.46
37	4E	581	LEU	CB-CG	15.49	1.84	1.53
37	4G	854	TYR	CD1-CE1	15.47	1.85	1.38
37	4F	1335	MET	CB-CG	15.40	1.98	1.52
37	4G	1083	ILE	C-N	15.22	1.54	1.33
37	4H	1323	ILE	N-CA	15.06	1.63	1.46
37	4H	1136	ARG	C-N	14.97	1.54	1.33
37	4F	1322	ARG	CB-CG	14.94	1.97	1.52
37	4E	583	GLU	CB-CG	14.66	1.96	1.52
37	4F	1075	VAL	N-CA	14.63	1.63	1.46
37	4E	580	GLU	CA-C	14.55	1.73	1.52
37	4E	589	PRO	CA-C	14.48	1.73	1.52
37	4H	1322	ARG	C-N	14.43	1.51	1.33
37	4F	1083	ILE	CB-CG1	-14.42	1.24	1.53
37	4H	1092	LEU	N-CA	14.11	1.64	1.46
41	5A	120	TYR	C-O	14.05	1.40	1.23
37	4E	578	ASP	CA-C	13.98	1.71	1.52
37	4E	581	LEU	N-CA	13.92	1.64	1.46
37	4F	1083	ILE	CA-C	13.88	1.70	1.52
37	4E	587	ALA	CA-C	13.70	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	4E	586	PHE	C-N	13.63	1.61	1.33
37	4F	1083	ILE	C-N	13.48	1.65	1.34
37	4E	579	THR	N-CA	13.46	1.65	1.45
37	4F	1334	GLU	CA-C	13.17	1.70	1.52
37	4F	1093	VAL	CB-CG1	-13.03	1.09	1.52
42	5H	94	CYS	N-CA	12.94	1.63	1.45
37	4H	1084	ARG	CG-CD	12.78	1.90	1.52
37	4H	1137	ALA	N-CA	12.72	1.60	1.45
37	4H	1333	VAL	CB-CG1	-12.72	1.10	1.52
37	4H	1091	VAL	CB-CG1	12.60	1.94	1.52
37	4G	1323	ILE	N-CA	12.57	1.62	1.46
41	5A	141	ASN	CA-C	-12.57	1.35	1.52
37	4G	1333	VAL	C-N	12.55	1.51	1.33
43	5J	167	PRO	C-N	12.47	1.44	1.33
37	4F	1324	THR	CA-CB	12.45	1.74	1.53
37	4G	854	TYR	CE1-CZ	12.43	1.68	1.38
37	4G	1082	LEU	CG-CD1	-12.40	1.11	1.52
43	5I	167	PRO	C-N	12.38	1.43	1.33
43	5K	167	PRO	C-N	12.38	1.43	1.33
43	5L	167	PRO	C-N	12.37	1.43	1.33
37	4F	1075	VAL	CA-C	12.01	1.66	1.52
42	5H	135	ARG	CZ-NH2	11.92	1.49	1.33
41	5A	120	TYR	CA-CB	11.82	1.73	1.53
43	5L	168	GLU	CG-CD	11.79	1.81	1.52
43	5J	168	GLU	CG-CD	11.78	1.81	1.52
43	5I	168	GLU	CG-CD	11.78	1.81	1.52
43	5K	168	GLU	CG-CD	11.77	1.81	1.52
42	5H	138	ARG	CB-CG	11.71	1.87	1.52
37	4E	582	GLN	CB-CG	-11.59	1.17	1.52
37	4E	1108	PHE	CB-CG	-11.54	1.24	1.50
37	4E	578	ASP	C-N	11.42	1.52	1.33
37	4F	1332	SER	C-N	11.41	1.49	1.33
37	4G	1323	ILE	CA-C	-11.41	1.38	1.52
37	4G	1083	ILE	CG1-CD1	11.38	1.96	1.51
37	4E	578	ASP	CA-CB	-11.37	1.34	1.53
42	5H	94	CYS	CA-C	11.32	1.67	1.52
42	5H	139	LEU	CA-CB	11.24	1.72	1.53
42	5H	139	LEU	CA-C	-11.20	1.37	1.52
42	5H	136	HIS	CA-C	-11.12	1.37	1.52
37	4F	1138	VAL	CB-CG2	-11.12	1.15	1.52
37	4F	1074	GLN	CD-OE1	-11.08	1.02	1.23
42	5H	156	GLU	CB-CG	11.05	1.85	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	4H	1323	ILE	CA-CB	-11.05	1.40	1.54
37	4G	1092	LEU	N-CA	10.95	1.60	1.46
37	4H	972	PHE	CB-CG	10.94	1.75	1.50
37	4E	576	ALA	N-CA	10.89	1.60	1.46
37	4H	1333	VAL	CB-CG2	10.80	1.88	1.52
37	4G	1335	MET	CG-SD	10.71	2.07	1.80
37	4H	1323	ILE	C-N	10.66	1.49	1.33
38	4L	26	GLU	CG-CD	10.64	1.78	1.52
38	4N	26	GLU	CG-CD	10.63	1.78	1.52
38	4M	26	GLU	CG-CD	10.62	1.78	1.52
37	4F	972	PHE	CE2-CZ	-10.62	1.06	1.38
38	4K	26	GLU	CG-CD	10.62	1.78	1.52
38	4J	26	GLU	CG-CD	10.62	1.78	1.52
38	4I	26	GLU	CG-CD	10.61	1.78	1.52
42	5H	137	TYR	N-CA	-10.60	1.32	1.46
37	4G	1084	ARG	N-CA	10.55	1.58	1.46
37	4F	1333	VAL	N-CA	10.44	1.58	1.46
37	4G	1322	ARG	C-N	10.38	1.47	1.33
37	4E	587	ALA	C-N	10.37	1.45	1.33
42	5H	136	HIS	CA-CB	10.36	1.71	1.53
37	4H	1342	LEU	CG-CD2	-10.35	1.18	1.52
37	4H	1322	ARG	CG-CD	10.33	1.83	1.52
37	4H	1137	ALA	C-O	-10.30	1.11	1.23
41	5A	141	ASN	C-O	10.25	1.36	1.24
37	4H	1083	ILE	C-N	10.15	1.47	1.33
37	4G	1323	ILE	CG1-CD1	10.15	1.91	1.51
37	4H	1082	LEU	CB-CG	10.07	1.73	1.53
43	5J	52	LEU	C-N	10.01	1.48	1.33
43	5L	52	LEU	C-N	10.01	1.48	1.33
43	5K	52	LEU	C-N	10.00	1.48	1.33
37	4G	854	TYR	CZ-OH	9.98	1.59	1.38
43	5I	52	LEU	C-N	9.94	1.48	1.33
37	4E	580	GLU	C-N	9.93	1.47	1.33
37	4G	854	TYR	CG-CD2	9.89	1.60	1.39
37	4G	1083	ILE	CA-CB	9.88	1.69	1.54
37	4G	1335	MET	CB-CG	-9.84	1.23	1.52
41	5A	141	ASN	C-N	-9.79	1.20	1.33
37	4F	972	PHE	CD1-CE1	-9.75	1.09	1.38
42	5H	138	ARG	CG-CD	9.68	1.81	1.52
37	4E	581	LEU	C-O	-9.65	1.11	1.24
37	4F	1092	LEU	C-N	9.63	1.46	1.33
37	4G	691	MET	CB-CG	9.61	1.81	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	4G	1082	LEU	C-O	9.59	1.36	1.24
41	5A	169	LEU	N-CA	-9.55	1.34	1.46
37	4E	588	PRO	N-CA	9.47	1.66	1.46
37	4H	1083	ILE	CA-C	9.46	1.64	1.52
42	5H	49	ILE	CA-CB	9.36	1.67	1.54
38	4L	36	VAL	CA-C	-9.34	1.41	1.53
38	4K	36	VAL	CA-C	-9.33	1.41	1.53
37	4E	583	GLU	C-N	9.32	1.46	1.33
37	4E	583	GLU	N-CA	-9.32	1.34	1.46
38	4J	36	VAL	CA-C	-9.32	1.41	1.53
37	4H	1138	VAL	N-CA	9.31	1.57	1.46
38	4I	36	VAL	CA-C	-9.29	1.41	1.53
37	4E	582	GLN	N-CA	9.29	1.57	1.46
37	4E	582	GLN	CG-CD	-9.28	1.28	1.52
38	4M	36	VAL	CA-C	-9.28	1.41	1.53
37	4G	1093	VAL	CB-CG2	9.26	1.83	1.52
38	4N	36	VAL	CA-C	-9.26	1.41	1.53
37	4F	1358	LEU	CG-CD1	-9.16	1.22	1.52
37	4H	1074	GLN	CB-CG	9.14	1.79	1.52
37	4F	1074	GLN	C-N	9.13	1.46	1.33
38	4N	41	LYS	CB-CG	-9.05	1.25	1.52
38	4L	41	LYS	CB-CG	-9.04	1.25	1.52
38	4K	41	LYS	CB-CG	-9.04	1.25	1.52
38	4I	41	LYS	CB-CG	-9.03	1.25	1.52
38	4M	41	LYS	CB-CG	-9.02	1.25	1.52
38	4J	41	LYS	CB-CG	-9.01	1.25	1.52
43	5I	42	TYR	CG-CD1	-9.00	1.20	1.39
43	5J	42	TYR	CG-CD1	-8.98	1.20	1.39
43	5I	47	LYS	CA-C	8.97	1.64	1.52
43	5K	47	LYS	CA-C	8.97	1.64	1.52
43	5J	47	LYS	CA-C	8.96	1.64	1.52
43	5L	42	TYR	CG-CD1	-8.95	1.20	1.39
43	5L	47	LYS	CA-C	8.95	1.64	1.52
43	5K	42	TYR	CG-CD1	-8.95	1.20	1.39
37	4E	583	GLU	CA-CB	8.94	1.68	1.53
37	4F	1094	ALA	N-CA	8.79	1.58	1.46
42	5H	136	HIS	CB-CG	8.78	1.62	1.50
37	4F	544	MET	CB-CG	-8.64	1.26	1.52
37	4G	1082	LEU	CA-C	8.52	1.64	1.52
42	5H	138	ARG	CA-CB	8.52	1.66	1.53
37	4G	1082	LEU	CG-CD2	8.49	1.80	1.52
37	4H	1138	VAL	CB-CG1	-8.49	1.24	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	4E	579	THR	CA-C	8.43	1.63	1.52
43	5I	36	TYR	CA-C	8.41	1.65	1.52
37	4H	1136	ARG	CA-C	8.39	1.63	1.52
37	4E	1108	PHE	CD1-CE1	-8.39	1.13	1.38
37	4G	1323	ILE	C-N	-8.35	1.22	1.33
43	5L	36	TYR	CA-C	8.35	1.64	1.52
43	5J	36	TYR	CA-C	8.34	1.64	1.52
43	5K	36	TYR	CA-C	8.34	1.64	1.52
42	5H	49	ILE	CB-CG2	8.31	1.79	1.52
37	4F	1074	GLN	N-CA	8.30	1.57	1.46
42	5H	137	TYR	CE1-CZ	-8.18	1.18	1.38
37	4H	1138	VAL	C-N	-8.18	1.22	1.33
37	4G	1332	SER	CA-C	-8.15	1.42	1.52
37	4G	1074	GLN	CD-NE2	-8.12	1.16	1.33
41	5A	119	LYS	C-N	-8.10	1.22	1.33
37	4G	1094	ALA	CA-C	-8.07	1.44	1.52
37	4G	1333	VAL	CA-CB	-8.03	1.43	1.54
38	4L	49	ILE	CB-CG2	-8.01	1.26	1.52
38	4K	49	ILE	CB-CG2	-7.98	1.26	1.52
37	4H	1333	VAL	CA-C	7.98	1.62	1.52
38	4I	49	ILE	CB-CG2	-7.98	1.26	1.52
38	4M	49	ILE	CB-CG2	-7.98	1.26	1.52
38	4N	49	ILE	CB-CG2	-7.98	1.26	1.52
38	4J	49	ILE	CB-CG2	-7.97	1.26	1.52
42	5H	49	ILE	CA-C	7.93	1.62	1.52
37	4F	1340	PRO	N-CA	7.81	1.57	1.47
37	4G	1075	VAL	CB-CG1	-7.79	1.26	1.52
37	4H	1323	ILE	CB-CG1	7.79	1.69	1.53
37	4F	1333	VAL	CA-CB	7.76	1.65	1.54
43	5L	158	HIS	CA-CB	7.70	1.66	1.53
41	5A	20	GLU	N-CA	7.70	1.60	1.46
37	4H	1332	SER	N-CA	7.69	1.54	1.45
43	5J	158	HIS	CA-CB	7.69	1.66	1.53
37	4F	958	LEU	CG-CD1	-7.69	1.27	1.52
37	4G	1323	ILE	CB-CG1	7.67	1.68	1.53
43	5I	158	HIS	CA-CB	7.67	1.66	1.53
43	5K	158	HIS	CA-CB	7.67	1.66	1.53
43	5K	45	ASN	CA-C	7.66	1.60	1.52
37	4F	1350	ILE	CB-CG1	7.65	1.68	1.53
38	4J	24	THR	CA-C	7.65	1.69	1.52
38	4K	24	THR	CA-C	7.64	1.69	1.52
37	4E	579	THR	CB-CG2	7.64	1.77	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	5L	45	ASN	CA-C	7.63	1.60	1.52
38	4I	24	THR	CA-C	7.62	1.69	1.52
38	4M	24	THR	CA-C	7.62	1.69	1.52
38	4N	24	THR	CA-C	7.62	1.69	1.52
37	4F	1093	VAL	N-CA	7.62	1.55	1.46
43	5J	45	ASN	CA-C	7.62	1.60	1.52
37	4E	579	THR	C-N	7.61	1.45	1.33
37	4H	1144	LEU	CG-CD2	-7.61	1.27	1.52
42	5H	91	TYR	CB-CG	7.61	1.68	1.51
38	4L	24	THR	CA-C	7.60	1.69	1.52
43	5L	33	LEU	C-N	7.58	1.43	1.33
43	5I	45	ASN	CA-C	7.57	1.60	1.52
37	4H	1084	ARG	N-CA	7.57	1.55	1.46
43	5K	33	LEU	C-N	7.56	1.43	1.33
37	4H	954	SER	CA-CB	7.55	1.66	1.53
37	4E	581	LEU	CA-C	7.54	1.62	1.52
42	5H	157	LEU	C-N	-7.53	1.23	1.33
37	4F	1093	VAL	CA-CB	7.53	1.64	1.54
43	5I	33	LEU	C-N	7.51	1.43	1.33
43	5J	33	LEU	C-N	7.51	1.43	1.33
37	4G	1084	ARG	NE-CZ	7.48	1.41	1.33
37	4F	1324	THR	CB-CG2	7.46	1.77	1.52
37	4G	1084	ARG	CA-CB	7.43	1.65	1.53
37	4F	1323	ILE	CA-CB	-7.42	1.44	1.54
37	4E	584	ALA	N-CA	7.39	1.55	1.46
37	4H	1084	ARG	CA-CB	7.36	1.67	1.53
37	4G	529	VAL	CB-CG1	-7.34	1.28	1.52
42	5H	135	ARG	CA-CB	7.28	1.65	1.53
37	4F	1083	ILE	CB-CG2	7.28	1.76	1.52
43	5L	157	ALA	C-N	7.28	1.45	1.33
43	5I	157	ALA	C-N	7.27	1.45	1.33
43	5K	157	ALA	C-N	7.25	1.45	1.33
37	4E	586	PHE	N-CA	7.24	1.55	1.46
37	4E	585	VAL	N-CA	-7.23	1.37	1.46
37	4F	1321	THR	CA-C	-7.23	1.43	1.52
43	5J	157	ALA	C-N	7.22	1.45	1.33
41	5A	121	GLN	N-CA	-7.21	1.36	1.46
37	4F	1074	GLN	CA-C	7.20	1.60	1.53
37	4E	582	GLN	C-N	-7.15	1.23	1.33
37	4G	1321	THR	C-N	-7.13	1.23	1.33
41	5A	139	GLU	C-N	-7.12	1.23	1.33
37	4G	1322	ARG	CG-CD	7.12	1.73	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	5L	45	ASN	N-CA	7.09	1.60	1.45
43	5I	45	ASN	N-CA	7.09	1.60	1.45
43	5K	45	ASN	N-CA	7.07	1.60	1.45
43	5J	45	ASN	N-CA	7.07	1.60	1.45
42	5H	159	VAL	CA-CB	-7.02	1.46	1.54
37	4H	1322	ARG	CB-CG	7.01	1.73	1.52
43	5J	158	HIS	CB-CG	7.01	1.59	1.50
43	5L	168	GLU	CB-CG	7.01	1.73	1.52
37	4G	1083	ILE	CB-CG1	7.00	1.67	1.53
37	4H	1082	LEU	CA-C	6.99	1.62	1.52
43	5I	168	GLU	CB-CG	6.98	1.73	1.52
43	5L	36	TYR	C-N	6.98	1.43	1.33
43	5L	158	HIS	CB-CG	6.98	1.59	1.50
37	4F	1335	MET	CA-CB	6.98	1.63	1.53
37	4G	1322	ARG	CA-C	6.98	1.62	1.52
43	5J	168	GLU	CB-CG	6.97	1.73	1.52
3	6D	1006	ASP	CB-CG	6.97	1.69	1.52
43	5I	158	HIS	CB-CG	6.96	1.59	1.50
43	5K	36	TYR	C-N	6.96	1.43	1.33
43	5K	168	GLU	CB-CG	6.96	1.73	1.52
43	5K	158	HIS	CB-CG	6.96	1.59	1.50
43	5I	36	TYR	C-N	6.94	1.43	1.33
37	4H	1091	VAL	CB-CG2	6.93	1.75	1.52
37	4G	1073	LEU	C-N	6.93	1.43	1.33
43	5J	36	TYR	C-N	6.93	1.43	1.33
37	4F	1322	ARG	CA-CB	6.92	1.64	1.53
37	4H	1083	ILE	N-CA	6.91	1.54	1.46
37	4E	589	PRO	CG-CD	6.91	1.74	1.50
42	5H	91	TYR	CA-C	6.90	1.62	1.52
37	4E	585	VAL	C-N	6.88	1.43	1.33
42	5H	143	VAL	CB-CG2	-6.87	1.29	1.52
38	4K	33	LYS	CD-CE	-6.87	1.31	1.52
37	4G	1321	THR	CB-CG2	-6.86	1.29	1.52
38	4I	33	LYS	CD-CE	-6.85	1.31	1.52
38	4N	33	LYS	CD-CE	-6.85	1.31	1.52
38	4L	33	LYS	CD-CE	-6.85	1.31	1.52
37	4E	590	LYS	CG-CD	-6.84	1.31	1.52
37	4G	1092	LEU	CA-CB	6.84	1.65	1.53
38	4M	33	LYS	CD-CE	-6.84	1.31	1.52
37	4E	586	PHE	CE2-CZ	-6.84	1.18	1.38
37	4G	1084	ARG	CD-NE	6.84	1.55	1.46
38	4K	26	GLU	CB-CG	-6.83	1.31	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4I	26	GLU	CB-CG	-6.83	1.31	1.52
38	4M	26	GLU	CB-CG	-6.83	1.31	1.52
41	5A	20	GLU	CA-C	6.82	1.67	1.52
37	4H	1322	ARG	CA-CB	6.82	1.65	1.53
38	4J	38	VAL	CB-CG2	-6.82	1.30	1.52
38	4L	26	GLU	CB-CG	-6.82	1.31	1.52
38	4I	38	VAL	CB-CG2	-6.82	1.30	1.52
38	4N	26	GLU	CB-CG	-6.82	1.32	1.52
42	5H	158	MET	CA-C	6.81	1.61	1.52
38	4J	33	LYS	CD-CE	-6.81	1.32	1.52
38	4L	38	VAL	CB-CG2	-6.80	1.30	1.52
38	4J	26	GLU	CB-CG	-6.80	1.32	1.52
42	5H	137	TYR	C-N	6.80	1.50	1.33
38	4M	38	VAL	CB-CG2	-6.79	1.30	1.52
37	4F	1335	MET	CG-SD	6.79	1.97	1.80
38	4K	38	VAL	CB-CG2	-6.79	1.30	1.52
42	5H	148	GLN	CB-CG	6.78	1.72	1.52
38	4N	38	VAL	CB-CG2	-6.78	1.30	1.52
37	4F	1084	ARG	N-CA	6.75	1.59	1.47
42	5H	140	TYR	N-CA	-6.73	1.37	1.46
43	5I	34	ALA	CA-C	6.70	1.62	1.52
43	5J	37	THR	N-CA	6.70	1.54	1.46
43	5I	37	THR	N-CA	6.70	1.54	1.46
42	5H	135	ARG	CZ-NH1	-6.70	1.23	1.32
37	4F	1321	THR	C-N	-6.69	1.25	1.33
43	5J	34	ALA	CA-C	6.69	1.62	1.52
43	5L	34	ALA	CA-C	6.68	1.62	1.52
37	4H	1073	LEU	C-N	6.68	1.42	1.33
43	5L	37	THR	N-CA	6.67	1.54	1.46
43	5K	34	ALA	CA-C	6.67	1.62	1.52
37	4G	567	LEU	CG-CD1	-6.67	1.30	1.52
37	4E	585	VAL	CB-CG1	-6.66	1.30	1.52
43	5K	37	THR	N-CA	6.65	1.54	1.46
37	4G	528	SER	C-N	-6.64	1.24	1.33
37	4H	1137	ALA	CA-C	6.63	1.60	1.52
41	5A	139	GLU	CA-C	-6.62	1.44	1.52
37	4H	1332	SER	C-N	6.59	1.42	1.33
37	4H	1144	LEU	CB-CG	-6.57	1.40	1.53
42	5H	94	CYS	CA-CB	-6.57	1.44	1.54
42	5H	93	GLU	C-N	6.56	1.43	1.33
30	3F	301	VAL	CB-CG2	-6.55	1.30	1.52
37	4E	577	LEU	CB-CG	6.54	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	4H	1323	ILE	CA-C	-6.54	1.44	1.52
42	5H	137	TYR	CG-CD1	6.53	1.53	1.39
37	4F	1075	VAL	CB-CG1	6.53	1.74	1.52
42	5H	158	MET	CA-CB	6.52	1.64	1.53
37	4G	1344	SER	N-CA	6.50	1.54	1.45
37	4F	972	PHE	CG-CD1	-6.46	1.25	1.38
37	4E	591	PRO	N-CD	6.45	1.56	1.47
37	4H	1136	ARG	CB-CG	6.43	1.71	1.52
37	4G	1101	LEU	CB-CG	-6.42	1.40	1.53
37	4F	1325	ARG	N-CA	-6.41	1.38	1.45
43	5K	49	ALA	CA-C	6.40	1.61	1.52
37	4F	856	MET	CG-SD	-6.37	1.64	1.80
43	5J	49	ALA	CA-C	6.36	1.61	1.52
37	4H	1139	THR	N-CA	-6.35	1.38	1.46
38	4J	33	LYS	CG-CD	-6.35	1.33	1.52
38	4L	33	LYS	CG-CD	-6.35	1.33	1.52
38	4N	33	LYS	CG-CD	-6.35	1.33	1.52
42	5H	158	MET	CG-SD	6.33	1.96	1.80
38	4M	33	LYS	CG-CD	-6.33	1.33	1.52
38	4K	33	LYS	CG-CD	-6.33	1.33	1.52
38	4I	33	LYS	CG-CD	-6.33	1.33	1.52
43	5L	49	ALA	CA-C	6.31	1.61	1.52
43	5I	49	ALA	CA-C	6.30	1.61	1.52
37	4F	1335	MET	N-CA	6.29	1.54	1.45
42	5H	138	ARG	CD-NE	6.29	1.55	1.46
37	4F	1315	VAL	N-CA	6.25	1.53	1.46
37	4H	1322	ARG	CD-NE	6.25	1.55	1.46
37	4F	1081	HIS	CB-CG	6.24	1.58	1.50
42	5H	50	LEU	N-CA	6.21	1.54	1.46
42	5H	136	HIS	C-N	-6.21	1.25	1.33
37	4H	1082	LEU	C-N	6.20	1.41	1.33
37	4G	826	LEU	CG-CD2	6.19	1.73	1.52
38	4N	25	PRO	CA-C	6.18	1.61	1.52
38	4I	25	PRO	CA-C	6.18	1.61	1.52
43	5I	53	ASP	CA-C	6.18	1.61	1.52
42	5H	158	MET	N-CA	-6.18	1.38	1.46
12	3a	86	ARG	C-N	6.17	1.39	1.33
43	5J	53	ASP	CA-C	6.17	1.61	1.52
38	4J	25	PRO	CA-C	6.17	1.61	1.52
37	4G	692	MET	CG-SD	-6.17	1.65	1.80
37	4H	954	SER	CA-C	-6.16	1.44	1.52
38	4K	25	PRO	CA-C	6.15	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	4F	1324	THR	N-CA	6.14	1.54	1.46
43	5I	34	ALA	N-CA	6.14	1.53	1.46
43	5K	53	ASP	CA-C	6.12	1.61	1.52
43	5J	34	ALA	N-CA	6.11	1.53	1.46
42	5H	93	GLU	CA-C	6.10	1.60	1.52
43	5L	53	ASP	CA-C	6.09	1.61	1.52
38	4L	25	PRO	CA-C	6.09	1.61	1.52
43	5K	34	ALA	N-CA	6.09	1.53	1.46
38	4M	25	PRO	CA-C	6.09	1.61	1.52
42	5H	156	GLU	CG-CD	6.07	1.67	1.52
43	5L	34	ALA	N-CA	6.07	1.53	1.46
12	3a	86	ARG	CB-CG	6.07	1.70	1.52
37	4G	854	TYR	CB-CG	6.07	1.65	1.51
37	4E	588	PRO	CG-CD	6.06	1.71	1.50
37	4H	1072	ALA	C-N	6.05	1.42	1.33
38	4N	26	GLU	CA-CB	-6.05	1.43	1.53
37	4F	1753	GLN	CG-CD	-6.04	1.36	1.52
38	4J	26	GLU	CA-CB	-6.03	1.43	1.53
37	4E	586	PHE	CE1-CZ	-6.02	1.20	1.38
38	4K	26	GLU	CA-CB	-6.02	1.43	1.53
38	4L	26	GLU	CA-CB	-6.01	1.43	1.53
38	4M	26	GLU	CA-CB	-6.01	1.43	1.53
38	4I	26	GLU	CA-CB	-6.00	1.43	1.53
30	3F	301	VAL	CB-CG1	-6.00	1.32	1.52
37	4G	1083	ILE	CB-CG2	5.99	1.72	1.52
37	4H	972	PHE	CE1-CZ	-5.99	1.20	1.38
37	4H	1090	GLN	N-CA	-5.97	1.38	1.45
37	4H	1324	THR	CB-CG2	5.97	1.72	1.52
37	4G	1338	PHE	CB-CG	-5.97	1.36	1.50
37	4G	1084	ARG	CG-CD	5.96	1.70	1.52
42	5H	95	GLU	CB-CG	5.95	1.70	1.52
37	4H	1144	LEU	CA-CB	-5.94	1.45	1.53
37	4G	1338	PHE	CG-CD1	-5.94	1.26	1.38
37	4G	1081	HIS	CA-C	-5.93	1.44	1.52
43	5K	42	TYR	CB-CG	-5.91	1.38	1.51
37	4E	590	LYS	C-N	5.91	1.41	1.33
37	4G	854	TYR	CG-CD1	-5.89	1.26	1.39
43	5J	42	TYR	CB-CG	-5.88	1.38	1.51
43	5L	42	TYR	CB-CG	-5.88	1.38	1.51
38	4L	38	VAL	CB-CG1	-5.87	1.33	1.52
43	5I	42	TYR	CB-CG	-5.87	1.38	1.51
38	4M	38	VAL	CB-CG1	-5.87	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4N	38	VAL	CB-CG1	-5.86	1.33	1.52
38	4I	38	VAL	CB-CG1	-5.86	1.33	1.52
38	4J	38	VAL	CB-CG1	-5.85	1.33	1.52
38	4K	38	VAL	CB-CG1	-5.84	1.33	1.52
37	4G	538	GLU	CG-CD	-5.84	1.37	1.52
41	5A	140	GLU	N-CA	-5.82	1.38	1.46
42	5H	94	CYS	C-N	5.82	1.42	1.33
37	4G	935	ARG	CG-CD	-5.82	1.34	1.52
37	4G	1334	GLU	CG-CD	-5.80	1.37	1.52
38	4M	35	ALA	N-CA	-5.80	1.38	1.46
38	4N	35	ALA	N-CA	-5.77	1.38	1.46
38	4L	35	ALA	N-CA	-5.75	1.38	1.46
38	4J	35	ALA	N-CA	-5.74	1.38	1.46
30	3F	437	ILE	CB-CG2	-5.72	1.33	1.52
38	4K	35	ALA	N-CA	-5.72	1.38	1.46
37	4F	1334	GLU	C-N	5.71	1.40	1.33
37	4G	690	CYS	CA-C	-5.71	1.44	1.53
43	5I	37	THR	CA-CB	5.71	1.62	1.53
42	5H	143	VAL	CB-CG1	-5.71	1.33	1.52
43	5L	42	TYR	CD1-CE1	-5.71	1.21	1.38
38	4I	35	ALA	N-CA	-5.70	1.38	1.46
37	4F	1350	ILE	CG1-CD1	5.70	1.74	1.51
43	5K	42	TYR	CD1-CE1	-5.69	1.21	1.38
37	4E	575	SER	C-N	5.69	1.41	1.33
42	5H	159	VAL	CB-CG1	-5.69	1.33	1.52
43	5I	42	TYR	CD1-CE1	-5.68	1.21	1.38
43	5J	42	TYR	CD1-CE1	-5.68	1.21	1.38
43	5J	50	ILE	CG1-CD1	-5.67	1.29	1.51
43	5L	37	THR	CA-CB	5.67	1.62	1.53
43	5K	50	ILE	CG1-CD1	-5.66	1.29	1.51
43	5I	50	ILE	CG1-CD1	-5.66	1.29	1.51
37	4G	1095	PRO	N-CA	5.66	1.54	1.47
37	4G	854	TYR	C-N	-5.65	1.26	1.33
41	5A	119	LYS	C-O	-5.65	1.16	1.24
37	4H	1074	GLN	CG-CD	5.65	1.66	1.52
43	5K	37	THR	CA-CB	5.64	1.62	1.53
43	5L	50	ILE	CG1-CD1	-5.64	1.29	1.51
43	5I	32	LEU	CA-C	5.63	1.60	1.52
42	5H	156	GLU	CA-C	5.62	1.59	1.52
37	4H	1335	MET	SD-CE	-5.61	1.65	1.79
43	5L	32	LEU	CA-C	5.61	1.60	1.52
37	4H	1341	ILE	CB-CG2	5.61	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	5J	37	THR	CA-CB	5.60	1.62	1.53
6	1N	641	TRP	CE2-CZ2	-5.60	1.28	1.39
37	4E	585	VAL	CB-CG2	5.60	1.71	1.52
43	5J	32	LEU	CA-C	5.58	1.59	1.52
43	5K	32	LEU	CA-C	5.58	1.59	1.52
37	4H	1332	SER	C-O	5.56	1.30	1.23
42	5H	95	GLU	N-CA	5.55	1.53	1.46
37	4F	1341	ILE	CA-CB	5.54	1.60	1.54
43	5L	168	GLU	CA-C	5.53	1.58	1.53
43	5I	168	GLU	CA-C	5.49	1.58	1.53
38	4K	36	VAL	CB-CG1	-5.49	1.34	1.52
43	5K	168	GLU	CA-C	5.49	1.58	1.53
3	1H	1005	PRO	C-N	-5.48	1.26	1.33
37	4H	1084	ARG	CD-NE	5.48	1.53	1.46
38	4J	36	VAL	CB-CG1	-5.48	1.34	1.52
37	4H	1322	ARG	NE-CZ	5.47	1.39	1.33
38	4L	36	VAL	CB-CG1	-5.46	1.34	1.52
38	4N	36	VAL	CB-CG1	-5.46	1.34	1.52
37	4H	540	VAL	CB-CG1	-5.46	1.34	1.52
38	4M	36	VAL	CB-CG1	-5.45	1.34	1.52
38	4I	36	VAL	CB-CG1	-5.45	1.34	1.52
37	4F	1073	LEU	CB-CG	-5.42	1.42	1.53
37	4G	538	GLU	CB-CG	-5.42	1.36	1.52
37	4E	586	PHE	CG-CD1	-5.42	1.27	1.38
37	4H	1322	ARG	CA-C	5.42	1.60	1.52
43	5J	168	GLU	CA-C	5.41	1.58	1.53
42	5H	137	TYR	CD2-CE2	5.41	1.54	1.38
43	5J	167	PRO	CA-C	5.41	1.60	1.52
43	5K	167	PRO	CA-C	5.40	1.60	1.52
43	5I	167	PRO	CA-C	5.38	1.60	1.52
43	5L	167	PRO	CA-C	5.38	1.60	1.52
37	4F	1338	PHE	CD2-CE2	-5.36	1.22	1.38
37	4F	1315	VAL	CA-C	5.35	1.58	1.52
37	4G	1321	THR	C-O	-5.35	1.16	1.24
37	4H	972	PHE	CG-CD2	-5.34	1.27	1.38
37	4F	1323	ILE	CG1-CD1	5.33	1.72	1.51
37	4H	972	PHE	CA-CB	5.33	1.62	1.53
37	4F	958	LEU	CA-CB	-5.32	1.44	1.53
37	4F	1709	LEU	CG-CD2	-5.32	1.34	1.52
41	5A	120	TYR	C-N	-5.29	1.26	1.33
37	4E	1108	PHE	CD2-CE2	-5.28	1.22	1.38
37	4F	1338	PHE	CD1-CE1	-5.25	1.22	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	1F	54	GLU	CB-CG	-5.25	1.36	1.52
42	5H	49	ILE	N-CA	-5.24	1.39	1.46
37	4F	1084	ARG	CA-CB	5.22	1.62	1.53
38	4I	28	VAL	CB-CG2	-5.22	1.35	1.52
37	4F	1074	GLN	CB-CG	-5.22	1.36	1.52
37	4H	972	PHE	CE2-CZ	-5.21	1.23	1.38
38	4L	28	VAL	CB-CG2	-5.21	1.35	1.52
38	4L	29	LYS	C-O	-5.21	1.16	1.24
38	4J	38	VAL	N-CA	5.21	1.52	1.46
38	4K	28	VAL	CB-CG2	-5.20	1.35	1.52
38	4K	38	VAL	N-CA	5.20	1.52	1.46
38	4N	28	VAL	CB-CG2	-5.20	1.35	1.52
38	4M	28	VAL	CB-CG2	-5.20	1.35	1.52
38	4N	38	VAL	N-CA	5.19	1.52	1.46
37	4F	1341	ILE	C-N	-5.19	1.25	1.33
38	4M	29	LYS	C-O	-5.19	1.16	1.24
38	4J	28	VAL	CB-CG2	-5.19	1.35	1.52
41	5A	163	ASN	C-N	-5.19	1.26	1.33
38	4J	29	LYS	C-O	-5.18	1.16	1.24
37	4F	1074	GLN	CG-CD	5.18	1.65	1.52
43	5J	168	GLU	CD-OE1	5.18	1.35	1.25
38	4N	29	LYS	C-O	-5.18	1.16	1.24
43	5L	19	ARG	C-N	5.18	1.41	1.33
38	4I	38	VAL	N-CA	5.17	1.52	1.46
43	5J	19	ARG	C-N	5.17	1.41	1.33
38	4M	38	VAL	N-CA	5.17	1.52	1.46
43	5K	168	GLU	CD-OE1	5.17	1.35	1.25
43	5I	19	ARG	C-N	5.17	1.41	1.33
38	4I	29	LYS	C-O	-5.17	1.16	1.24
43	5L	168	GLU	CD-OE1	5.16	1.35	1.25
38	4K	29	LYS	C-O	-5.16	1.16	1.24
37	4F	972	PHE	CB-CG	-5.15	1.38	1.50
38	4L	38	VAL	N-CA	5.15	1.52	1.46
43	5K	19	ARG	C-N	5.15	1.41	1.33
37	4H	1136	ARG	CG-CD	-5.14	1.37	1.52
37	4G	534	HIS	CB-CG	-5.14	1.43	1.50
43	5I	168	GLU	CD-OE1	5.13	1.35	1.25
42	5H	132	GLY	C-N	-5.13	1.26	1.33
41	5A	142	ARG	CA-C	-5.13	1.46	1.52
37	4E	591	PRO	CG-CD	5.12	1.68	1.50
37	4E	590	LYS	CA-C	5.11	1.57	1.52
37	4F	1351	SER	CA-C	5.11	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	5H	133	LEU	C-O	-5.10	1.17	1.24
37	4H	1082	LEU	CA-CB	5.10	1.62	1.53
43	5I	53	ASP	N-CA	5.10	1.52	1.46
37	4G	1074	GLN	N-CA	5.09	1.52	1.46
37	4E	574	LEU	CA-C	-5.08	1.45	1.52
41	5A	164	GLY	CA-C	5.07	1.58	1.51
38	4N	26	GLU	CD-OE2	-5.07	1.15	1.25
37	4E	576	ALA	CA-C	-5.07	1.46	1.52
37	4H	1081	HIS	C-N	5.07	1.40	1.33
43	5K	53	ASP	N-CA	5.07	1.52	1.46
43	5L	53	ASP	N-CA	5.05	1.52	1.46
43	5J	53	ASP	N-CA	5.04	1.52	1.46
38	4K	26	GLU	CD-OE2	-5.04	1.15	1.25
42	5H	91	TYR	CG-CD1	5.03	1.50	1.39
37	4H	1092	LEU	CG-CD2	5.03	1.69	1.52
12	3a	86	ARG	CG-CD	5.02	1.67	1.52
38	4L	26	GLU	CD-OE2	-5.02	1.15	1.25
38	4J	26	GLU	CD-OE2	-5.00	1.15	1.25

All (1126) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4E	581	LEU	CD1-CG-CD2	-28.75	47.54	110.80
37	4E	581	LEU	CA-C-N	26.39	156.16	120.54
37	4E	581	LEU	C-N-CA	26.39	156.16	120.54
37	4H	1333	VAL	CA-CB-CG1	-24.47	68.80	110.40
37	4H	1082	LEU	CD1-CG-CD2	-23.86	58.31	110.80
37	4F	1335	MET	CA-CB-CG	22.18	158.45	114.10
42	5H	135	ARG	NE-CZ-NH1	-21.16	100.34	121.50
37	4F	1322	ARG	CA-C-O	-20.91	95.89	122.03
37	4F	1333	VAL	CB-CA-C	20.54	141.23	110.62
37	4F	1322	ARG	CA-CB-CG	20.47	155.04	114.10
37	4F	1082	LEU	CA-C-N	19.85	157.69	121.97
37	4F	1082	LEU	C-N-CA	19.85	157.69	121.97
37	4H	1091	VAL	N-CA-CB	-19.55	78.98	111.23
43	5K	168	GLU	CB-CG-CD	18.86	144.67	112.60
43	5I	168	GLU	CB-CG-CD	18.86	144.66	112.60
43	5J	168	GLU	CB-CG-CD	18.85	144.64	112.60
43	5L	168	GLU	CB-CG-CD	18.84	144.63	112.60
41	5A	120	TYR	N-CA-CB	-18.41	82.03	109.83
41	5A	141	ASN	O-C-N	18.36	147.01	122.59
42	5H	135	ARG	CA-C-N	17.96	155.85	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	5H	135	ARG	C-N-CA	17.96	155.85	121.54
37	4G	1094	ALA	N-CA-C	17.60	139.72	109.09
37	4G	1074	GLN	CA-CB-CG	17.22	148.55	114.10
37	4E	589	PRO	CA-C-N	17.10	147.92	123.30
37	4E	589	PRO	C-N-CA	17.10	147.92	123.30
37	4G	1093	VAL	CG1-CB-CG2	-16.96	73.48	110.80
37	4E	584	ALA	N-CA-CB	16.71	136.68	109.28
37	4F	1083	ILE	N-CA-CB	16.40	138.29	111.23
37	4H	1144	LEU	CB-CG-CD2	-16.34	61.67	110.70
37	4H	1091	VAL	CA-CB-CG1	16.30	138.12	110.40
42	5H	134	LEU	CB-CG-CD1	-16.27	61.89	110.70
37	4E	583	GLU	CA-CB-CG	16.26	146.62	114.10
37	4F	1341	ILE	CA-CB-CG1	16.00	137.61	110.40
37	4F	1350	ILE	CA-CB-CG2	-15.77	83.69	110.50
37	4E	582	GLN	CA-C-N	-15.75	91.46	121.54
37	4E	582	GLN	C-N-CA	-15.75	91.46	121.54
42	5H	139	LEU	CD1-CG-CD2	-15.57	76.55	110.80
37	4H	1091	VAL	CG1-CB-CG2	-15.42	76.88	110.80
41	5A	21	GLY	N-CA-C	15.22	149.25	113.18
42	5H	138	ARG	CA-CB-CG	15.02	144.15	114.10
42	5H	143	VAL	CG1-CB-CG2	-14.86	78.12	110.80
37	4F	544	MET	CG-SD-CE	-14.77	68.41	100.90
37	4F	1350	ILE	CB-CG1-CD1	14.76	144.79	113.80
37	4G	1082	LEU	CB-CG-CD2	14.68	154.74	110.70
37	4G	854	TYR	CD1-CE1-CZ	14.62	145.92	119.60
37	4G	1323	ILE	CB-CG1-CD1	14.46	144.17	113.80
37	4G	1334	GLU	N-CA-C	14.36	141.38	110.80
37	4F	1082	LEU	CB-CA-C	14.35	138.97	110.42
42	5H	49	ILE	CA-CB-CG2	14.34	134.87	110.50
37	4E	583	GLU	CB-CA-C	14.32	138.92	110.42
37	4H	1092	LEU	CA-CB-CG	14.26	166.19	116.30
37	4H	1084	ARG	CA-CB-CG	14.22	142.55	114.10
42	5H	91	TYR	CA-CB-CG	14.21	139.47	113.90
37	4E	586	PHE	CA-C-O	-14.16	104.60	120.32
37	4G	1093	VAL	CB-CA-C	-14.08	88.20	111.29
37	4E	577	LEU	CD1-CG-CD2	-14.06	79.87	110.80
37	4H	1323	ILE	N-CA-C	14.05	127.78	108.11
37	4G	690	CYS	CB-CA-C	-13.87	91.38	111.76
37	4G	1082	LEU	N-CA-CB	-13.86	87.06	110.49
37	4G	854	TYR	CE1-CZ-CE2	-13.68	92.95	120.30
41	5A	141	ASN	N-CA-CB	13.67	133.59	110.49
37	4G	1322	ARG	CA-C-N	13.66	146.56	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4G	1322	ARG	C-N-CA	13.66	146.56	121.97
42	5H	135	ARG	NE-CZ-NH2	13.56	131.40	119.20
37	4F	1324	THR	N-CA-CB	13.43	132.75	110.87
37	4F	1083	ILE	CA-C-O	-13.42	104.00	120.78
37	4F	1333	VAL	N-CA-CB	-13.36	88.15	111.39
37	4G	1082	LEU	CA-CB-CG	12.98	161.74	116.30
37	4H	1323	ILE	CA-CB-CG1	-12.98	88.34	110.40
37	4F	1341	ILE	N-CA-CB	12.94	127.76	111.46
37	4E	578	ASP	O-C-N	-12.90	105.43	122.59
43	5J	168	GLU	CA-CB-CG	12.86	139.82	114.10
43	5L	168	GLU	CA-CB-CG	12.85	139.80	114.10
43	5K	168	GLU	CA-CB-CG	12.84	139.78	114.10
37	4F	1083	ILE	CB-CA-C	-12.84	90.23	111.29
43	5I	168	GLU	CA-CB-CG	12.84	139.78	114.10
37	4F	1335	MET	CB-CG-SD	12.80	151.09	112.70
37	4G	1333	VAL	CB-CA-C	12.77	132.23	111.29
42	5H	136	HIS	CA-CB-CG	12.73	126.53	113.80
37	4G	1084	ARG	CB-CG-CD	12.71	140.52	111.30
37	4H	1333	VAL	CA-CB-CG2	12.66	131.92	110.40
37	4G	1323	ILE	CA-CB-CG1	12.65	131.91	110.40
37	4E	587	ALA	N-CA-C	12.61	137.68	109.81
37	4E	589	PRO	CB-CA-C	12.60	132.34	111.56
37	4H	1322	ARG	CA-C-O	-12.49	102.64	120.51
37	4H	1332	SER	N-CA-C	-12.41	92.10	110.46
42	5H	136	HIS	N-CA-CB	12.39	131.42	110.49
37	4G	1083	ILE	CA-CB-CG2	12.38	131.55	110.50
41	5A	120	TYR	O-C-N	-12.26	107.79	122.87
37	4E	580	GLU	N-CA-C	12.24	128.01	113.20
42	5H	134	LEU	CA-C-O	-12.20	103.06	120.51
37	4H	1091	VAL	CB-CA-C	12.20	131.30	111.29
43	5K	167	PRO	CA-C-N	12.13	140.58	120.81
43	5K	167	PRO	C-N-CA	12.13	140.58	120.81
43	5I	167	PRO	CA-C-N	12.12	140.57	120.81
43	5I	167	PRO	C-N-CA	12.12	140.57	120.81
37	4E	585	VAL	CB-CA-C	12.11	131.16	111.29
43	5L	167	PRO	CA-C-N	12.11	140.54	120.81
43	5L	167	PRO	C-N-CA	12.11	140.54	120.81
43	5J	167	PRO	CA-C-N	12.10	140.53	120.81
43	5J	167	PRO	C-N-CA	12.10	140.53	120.81
37	4G	1083	ILE	CA-CB-CG1	12.00	130.79	110.40
37	4G	1082	LEU	CD1-CG-CD2	-11.97	84.46	110.80
37	4H	1090	GLN	CA-C-N	-11.97	100.43	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4H	1090	GLN	C-N-CA	-11.97	100.43	121.97
42	5H	158	MET	CA-C-N	-11.87	102.59	121.35
42	5H	158	MET	C-N-CA	-11.87	102.59	121.35
37	4F	958	LEU	CB-CG-CD1	-11.84	75.19	110.70
37	4F	1323	ILE	CA-C-N	11.82	139.98	122.95
37	4F	1323	ILE	C-N-CA	11.82	139.98	122.95
38	4L	35	ALA	CA-C-N	-11.79	105.54	122.28
38	4L	35	ALA	C-N-CA	-11.79	105.54	122.28
38	4N	35	ALA	CA-C-N	-11.78	105.56	122.28
38	4N	35	ALA	C-N-CA	-11.78	105.56	122.28
38	4K	35	ALA	CA-C-N	-11.77	105.57	122.28
38	4K	35	ALA	C-N-CA	-11.77	105.57	122.28
41	5A	140	GLU	CA-C-O	-11.77	103.68	120.51
38	4M	35	ALA	CA-C-N	-11.77	105.57	122.28
38	4M	35	ALA	C-N-CA	-11.77	105.57	122.28
38	4I	35	ALA	CA-C-N	-11.76	105.58	122.28
38	4I	35	ALA	C-N-CA	-11.76	105.58	122.28
38	4J	35	ALA	CA-C-N	-11.76	105.59	122.28
38	4J	35	ALA	C-N-CA	-11.76	105.59	122.28
37	4F	1333	VAL	CA-CB-CG2	11.74	130.36	110.40
37	4F	1335	MET	CG-SD-CE	11.71	126.66	100.90
2	1F	82	LEU	CB-CG-CD1	-11.68	75.66	110.70
37	4G	1335	MET	CA-CB-CG	11.67	137.43	114.10
2	1G	82	LEU	CB-CG-CD1	-11.60	75.90	110.70
42	5H	135	ARG	CB-CA-C	-11.52	87.49	110.42
37	4G	1333	VAL	CA-CB-CG2	-11.52	90.82	110.40
37	4H	1136	ARG	CB-CG-CD	11.52	137.79	111.30
41	5A	163	ASN	CA-C-N	11.49	144.23	121.93
41	5A	163	ASN	C-N-CA	11.49	144.23	121.93
37	4G	1074	GLN	CB-CA-C	-11.48	91.35	110.19
37	4F	1083	ILE	CA-CB-CG1	11.44	129.85	110.40
41	5A	140	GLU	CA-C-N	11.39	143.29	121.54
41	5A	140	GLU	C-N-CA	11.39	143.29	121.54
37	4F	1322	ARG	CB-CA-C	11.32	128.63	112.11
42	5H	138	ARG	CB-CG-CD	11.29	137.26	111.30
37	4G	691	MET	CB-CG-SD	11.28	146.53	112.70
37	4F	1335	MET	N-CA-CB	11.26	125.61	110.29
37	4H	1137	ALA	N-CA-C	11.24	127.83	109.95
41	5A	120	TYR	N-CA-C	11.23	126.51	110.23
37	4G	1082	LEU	CB-CA-C	11.20	132.72	110.42
37	4G	1335	MET	CG-SD-CE	11.20	125.53	100.90
37	4F	1322	ARG	CA-C-N	11.18	142.09	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4F	1322	ARG	C-N-CA	11.18	142.09	121.97
37	4G	690	CYS	CA-C-N	-11.17	105.06	122.59
37	4G	690	CYS	C-N-CA	-11.17	105.06	122.59
37	4E	588	PRO	CA-N-CD	-11.13	96.42	112.00
37	4F	1094	ALA	N-CA-C	11.05	134.24	109.81
37	4F	1333	VAL	CA-C-N	10.95	142.44	121.54
37	4F	1333	VAL	C-N-CA	10.95	142.44	121.54
37	4F	1333	VAL	CG1-CB-CG2	-10.90	86.83	110.80
37	4G	1084	ARG	CA-CB-CG	10.82	135.75	114.10
37	4H	1322	ARG	CB-CG-CD	10.81	136.16	111.30
37	4F	1324	THR	CB-CA-C	-10.76	94.59	111.17
37	4H	1322	ARG	N-CA-CB	-10.76	92.31	110.49
37	4G	1084	ARG	CB-CA-C	-10.68	94.50	110.62
37	4E	582	GLN	N-CA-CB	10.67	125.84	109.94
37	4H	1082	LEU	CA-CB-CG	10.62	153.47	116.30
41	5A	121	GLN	N-CA-CB	-10.44	92.85	110.49
37	4H	1323	ILE	CG1-CB-CG2	10.43	141.98	110.70
41	5A	120	TYR	CB-CA-C	10.43	127.03	109.72
42	5H	49	ILE	CB-CA-C	10.37	128.30	111.29
37	4H	1094	ALA	N-CA-C	10.34	125.76	110.14
42	5H	139	LEU	CB-CG-CD2	10.32	141.68	110.70
37	4G	1082	LEU	CB-CG-CD1	-10.30	79.78	110.70
42	5H	139	LEU	CB-CG-CD1	10.28	141.53	110.70
37	4F	1341	ILE	CB-CA-C	-10.27	95.97	110.96
37	4H	1333	VAL	N-CA-C	10.25	130.66	109.34
37	4G	1084	ARG	N-CA-CB	10.24	126.40	110.84
37	4G	1083	ILE	CB-CG1-CD1	10.16	135.14	113.80
37	4H	1324	THR	N-CA-CB	10.15	129.45	110.56
37	4F	540	VAL	CG1-CB-CG2	-10.15	88.48	110.80
37	4G	1333	VAL	CA-CB-CG1	10.13	127.62	110.40
37	4H	1084	ARG	CB-CA-C	-10.12	91.39	109.70
37	4E	582	GLN	N-CA-C	-10.07	99.03	111.11
37	4G	1323	ILE	CA-CB-CG2	10.07	127.61	110.50
38	4K	28	VAL	CA-C-N	-10.06	106.26	122.66
38	4K	28	VAL	C-N-CA	-10.06	106.26	122.66
38	4J	28	VAL	CA-C-N	-10.06	106.27	122.66
38	4J	28	VAL	C-N-CA	-10.06	106.27	122.66
37	4G	1101	LEU	CB-CG-CD1	-10.05	80.54	110.70
38	4M	28	VAL	CA-C-N	-10.05	106.27	122.66
38	4M	28	VAL	C-N-CA	-10.05	106.27	122.66
2	1E	82	LEU	CB-CG-CD1	-10.05	80.55	110.70
38	4N	28	VAL	CA-C-N	-10.04	106.30	122.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4N	28	VAL	C-N-CA	-10.04	106.30	122.66
37	4H	1082	LEU	CB-CG-CD2	10.04	140.81	110.70
37	4E	1123	LEU	CB-CG-CD2	-10.04	80.59	110.70
38	4L	28	VAL	CA-C-N	-10.04	106.30	122.66
38	4L	28	VAL	C-N-CA	-10.04	106.30	122.66
38	4I	28	VAL	CA-C-N	-10.02	106.32	122.66
38	4I	28	VAL	C-N-CA	-10.02	106.32	122.66
42	5H	158	MET	O-C-N	-10.02	109.26	122.59
37	4E	579	THR	CA-C-O	-10.00	107.90	118.90
2	1D	82	LEU	CB-CG-CD1	-9.98	80.77	110.70
37	4E	579	THR	N-CA-C	9.97	127.98	114.12
37	4E	588	PRO	CA-C-N	-9.97	107.37	119.84
37	4E	588	PRO	C-N-CA	-9.97	107.37	119.84
37	4E	586	PHE	CA-C-N	9.93	146.03	121.80
37	4E	586	PHE	C-N-CA	9.93	146.03	121.80
37	4F	1092	LEU	CB-CG-CD1	-9.92	80.93	110.70
42	5H	49	ILE	N-CA-CB	-9.92	94.86	111.23
42	5H	134	LEU	CA-C-N	9.89	140.43	121.54
42	5H	134	LEU	C-N-CA	9.89	140.43	121.54
37	4G	686	HIS	CA-C-N	-9.83	104.37	121.66
37	4G	686	HIS	C-N-CA	-9.83	104.37	121.66
37	4F	1075	VAL	N-CA-C	9.80	122.74	108.53
37	4F	1082	LEU	CA-CB-CG	9.79	150.56	116.30
41	5A	75	ARG	CA-C-N	-9.68	103.04	121.54
41	5A	75	ARG	C-N-CA	-9.68	103.04	121.54
42	5H	135	ARG	CA-CB-CG	9.62	133.34	114.10
37	4H	1083	ILE	N-CA-C	9.55	122.84	108.23
47	6B	402	MET	CB-CG-SD	9.50	141.19	112.70
47	6A	402	MET	CB-CG-SD	9.49	141.17	112.70
37	4F	1316	GLN	CA-CB-CG	9.47	133.04	114.10
38	4M	53	LEU	CB-CG-CD2	-9.47	82.29	110.70
38	4L	53	LEU	CB-CG-CD2	-9.46	82.33	110.70
38	4N	53	LEU	CB-CG-CD2	-9.46	82.33	110.70
38	4J	53	LEU	CB-CG-CD2	-9.46	82.33	110.70
38	4I	53	LEU	CB-CG-CD2	-9.45	82.36	110.70
38	4K	53	LEU	CB-CG-CD2	-9.45	82.37	110.70
37	4H	1091	VAL	CA-CB-CG2	9.39	126.37	110.40
37	4F	1083	ILE	CA-C-N	9.36	139.30	122.92
37	4F	1083	ILE	C-N-CA	9.36	139.30	122.92
37	4H	1093	VAL	CA-CB-CG2	9.30	126.20	110.40
37	4H	1139	THR	CA-CB-OG1	-9.26	95.71	109.60
37	4H	1136	ARG	CB-CA-C	9.26	132.10	111.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4F	1074	GLN	CB-CG-CD	9.25	128.33	112.60
37	4G	1093	VAL	CA-CB-CG2	9.24	126.11	110.40
37	4H	1094	ALA	CB-CA-C	-9.22	95.05	108.88
37	4H	1332	SER	CA-C-O	-9.22	110.19	121.89
38	4L	41	LYS	CD-CE-NZ	-9.18	82.52	111.90
38	4M	41	LYS	CD-CE-NZ	-9.18	82.52	111.90
38	4N	41	LYS	CD-CE-NZ	-9.18	82.53	111.90
37	4E	583	GLU	CA-C-N	-9.17	106.67	121.26
37	4E	583	GLU	C-N-CA	-9.17	106.67	121.26
38	4J	41	LYS	CD-CE-NZ	-9.17	82.54	111.90
38	4I	41	LYS	CD-CE-NZ	-9.17	82.56	111.90
38	4K	41	LYS	CD-CE-NZ	-9.17	82.57	111.90
37	4E	1108	PHE	CA-CB-CG	-9.16	104.64	113.80
37	4H	1091	VAL	O-C-N	-9.13	111.16	122.57
38	4L	30	ALA	CA-C-N	-9.13	103.78	121.58
38	4L	30	ALA	C-N-CA	-9.13	103.78	121.58
38	4L	38	VAL	N-CA-CB	9.12	124.27	110.58
38	4J	38	VAL	N-CA-CB	9.12	124.26	110.58
38	4K	30	ALA	CA-C-N	-9.12	103.80	121.58
38	4K	30	ALA	C-N-CA	-9.12	103.80	121.58
38	4I	30	ALA	CA-C-N	-9.12	103.81	121.58
38	4I	30	ALA	C-N-CA	-9.12	103.81	121.58
38	4I	38	VAL	N-CA-CB	9.11	124.25	110.58
37	4G	1136	ARG	NH1-CZ-NH2	-9.11	107.46	119.30
38	4M	30	ALA	CA-C-N	-9.11	103.82	121.58
38	4M	30	ALA	C-N-CA	-9.11	103.82	121.58
38	4J	30	ALA	CA-C-N	-9.10	103.83	121.58
38	4J	30	ALA	C-N-CA	-9.10	103.83	121.58
38	4M	38	VAL	N-CA-CB	9.10	124.23	110.58
37	4E	584	ALA	CB-CA-C	-9.09	97.43	110.06
38	4N	30	ALA	CA-C-N	-9.09	103.86	121.58
38	4N	30	ALA	C-N-CA	-9.09	103.86	121.58
38	4N	38	VAL	N-CA-CB	9.09	124.21	110.58
37	4G	935	ARG	CA-CB-CG	-9.08	95.94	114.10
38	4K	38	VAL	N-CA-CB	9.07	124.19	110.58
42	5H	156	GLU	CB-CA-C	9.07	127.25	109.66
42	5H	158	MET	CG-SD-CE	9.05	120.82	100.90
37	4F	1074	GLN	OE1-CD-NE2	9.04	131.64	122.60
37	4F	1341	ILE	CB-CG1-CD1	-9.03	94.84	113.80
37	4G	1136	ARG	NE-CZ-NH1	9.02	130.52	121.50
37	4F	1074	GLN	CG-CD-OE1	-9.01	102.78	120.80
37	4H	1136	ARG	N-CA-CB	-9.01	97.33	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	5H	156	GLU	CB-CG-CD	9.00	127.91	112.60
2	1F	139	ARG	NE-CZ-NH2	-8.99	111.11	119.20
37	4F	1350	ILE	CG1-CB-CG2	8.95	137.55	110.70
37	4H	1324	THR	CA-CB-OG1	8.94	123.02	109.60
37	4H	1093	VAL	CG1-CB-CG2	-8.93	91.15	110.80
38	4L	36	VAL	CA-C-N	-8.92	103.93	121.41
38	4L	36	VAL	C-N-CA	-8.92	103.93	121.41
43	5L	10	LEU	N-CA-C	8.91	129.78	110.80
43	5K	18	ILE	CA-CB-CG1	-8.90	95.26	110.40
38	4I	36	VAL	CA-C-N	-8.90	103.96	121.41
38	4I	36	VAL	C-N-CA	-8.90	103.96	121.41
38	4N	36	VAL	CA-C-N	-8.90	103.97	121.41
38	4N	36	VAL	C-N-CA	-8.90	103.97	121.41
43	5I	10	LEU	N-CA-C	8.90	129.75	110.80
37	4F	540	VAL	N-CA-CB	-8.89	100.92	110.62
38	4M	36	VAL	CA-C-N	-8.89	103.98	121.41
38	4M	36	VAL	C-N-CA	-8.89	103.98	121.41
43	5J	10	LEU	N-CA-C	8.89	129.74	110.80
3	1H	1009	ARG	CG-CD-NE	8.89	131.56	112.00
43	5K	10	LEU	N-CA-C	8.88	129.72	110.80
43	5L	18	ILE	CA-CB-CG1	-8.88	95.30	110.40
43	5I	18	ILE	CA-CB-CG1	-8.88	95.30	110.40
37	4G	1333	VAL	O-C-N	-8.88	111.48	122.57
38	4J	36	VAL	CA-C-N	-8.87	104.02	121.41
38	4J	36	VAL	C-N-CA	-8.87	104.02	121.41
38	4K	36	VAL	CA-C-N	-8.87	104.03	121.41
38	4K	36	VAL	C-N-CA	-8.87	104.03	121.41
43	5J	18	ILE	CA-CB-CG1	-8.86	95.33	110.40
37	4G	692	MET	CA-CB-CG	-8.83	96.44	114.10
1	0N	183	LEU	CB-CG-CD2	-8.77	84.39	110.70
37	4H	1092	LEU	N-CA-CB	-8.76	95.69	110.49
37	4F	430	ASP	CA-C-N	-8.73	108.13	122.54
37	4F	430	ASP	C-N-CA	-8.73	108.13	122.54
37	4G	687	MET	CA-CB-CG	8.73	131.57	114.10
37	4H	1139	THR	CB-CA-C	8.72	127.77	110.42
37	4H	972	PHE	CD1-CG-CD2	-8.72	105.53	118.60
37	4H	1341	ILE	CG1-CB-CG2	8.71	136.82	110.70
37	4F	1076	THR	CB-CA-C	-8.70	96.62	111.41
37	4F	1093	VAL	CB-CA-C	8.70	125.56	111.29
42	5H	136	HIS	CB-CA-C	-8.70	93.11	110.42
43	5J	18	ILE	CB-CG1-CD1	8.68	132.02	113.80
37	4F	1709	LEU	CB-CG-CD2	-8.68	84.68	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	5H	159	VAL	N-CA-CB	-8.67	91.75	111.87
43	5L	18	ILE	CB-CG1-CD1	8.67	132.01	113.80
42	5H	137	TYR	CD1-CG-CD2	-8.67	105.10	118.10
43	5K	18	ILE	CB-CG1-CD1	8.66	131.98	113.80
37	4F	1321	THR	CB-CA-C	-8.66	93.19	110.42
43	5I	18	ILE	CB-CG1-CD1	8.65	131.97	113.80
37	4H	974	VAL	CG1-CB-CG2	-8.61	91.87	110.80
47	6B	402	MET	CG-SD-CE	8.58	119.77	100.90
47	6A	402	MET	CG-SD-CE	8.56	119.73	100.90
41	5A	141	ASN	CB-CA-C	-8.54	93.43	110.42
30	3F	301	VAL	CA-CB-CG1	8.53	124.90	110.40
41	5A	20	GLU	CA-C-N	8.53	138.13	121.41
41	5A	20	GLU	C-N-CA	8.53	138.13	121.41
37	4G	793	THR	N-CA-CB	8.53	122.78	110.16
37	4H	1323	ILE	CB-CG1-CD1	8.52	131.70	113.80
37	4F	1073	LEU	CA-C-O	-8.52	112.28	121.99
37	4G	1321	THR	O-C-N	-8.52	112.12	122.34
37	4G	854	TYR	CE1-CZ-OH	8.49	145.38	119.90
37	4G	1094	ALA	CA-C-O	8.48	129.04	120.64
37	4H	1084	ARG	N-CA-C	8.47	123.07	108.76
41	5A	120	TYR	CA-C-N	-8.47	105.37	121.54
41	5A	120	TYR	C-N-CA	-8.47	105.37	121.54
37	4F	1339	ALA	CA-C-N	8.45	130.41	119.84
37	4F	1339	ALA	C-N-CA	8.45	130.41	119.84
37	4F	1323	ILE	N-CA-C	8.45	126.92	109.34
37	4G	1084	ARG	NE-CZ-NH1	8.44	129.94	121.50
38	4J	30	ALA	CB-CA-C	-8.44	95.12	110.56
38	4N	30	ALA	CB-CA-C	-8.43	95.13	110.56
38	4M	30	ALA	CB-CA-C	-8.43	95.14	110.56
37	4G	687	MET	CB-CG-SD	8.42	137.97	112.70
38	4I	30	ALA	CB-CA-C	-8.42	95.15	110.56
38	4K	30	ALA	CB-CA-C	-8.42	95.16	110.56
38	4L	30	ALA	CB-CA-C	-8.41	95.17	110.56
42	5H	135	ARG	N-CA-C	8.40	128.70	110.80
37	4F	1093	VAL	N-CA-C	8.40	126.81	109.34
37	4F	510	HIS	CA-CB-CG	-8.40	105.40	113.80
38	4J	25	PRO	N-CA-C	8.39	129.76	112.47
38	4K	25	PRO	N-CA-C	8.38	129.74	112.47
38	4L	25	PRO	N-CA-C	8.38	129.74	112.47
38	4M	25	PRO	N-CA-C	8.38	129.74	112.47
38	4I	25	PRO	N-CA-C	8.37	129.72	112.47
38	4N	25	PRO	N-CA-C	8.37	129.72	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4E	590	LYS	CD-CE-NZ	-8.37	85.12	111.90
12	6e	86	ARG	NE-CZ-NH2	-8.36	111.67	119.20
47	6B	1319	PRO	N-CA-CB	8.34	111.17	103.08
37	4F	1323	ILE	O-C-N	-8.34	112.14	122.57
47	6A	1319	PRO	N-CA-CB	8.33	111.16	103.08
42	5H	140	TYR	CB-CA-C	8.32	126.97	110.42
37	4E	587	ALA	CB-CA-C	-8.31	93.79	110.17
12	3a	86	ARG	CB-CG-CD	8.29	130.38	111.30
37	4F	1322	ARG	CG-CD-NE	8.29	130.24	112.00
37	4F	1333	VAL	O-C-N	-8.28	114.23	123.18
37	4G	1322	ARG	N-CA-C	8.28	128.44	110.80
37	4F	1082	LEU	N-CA-CB	-8.28	96.50	110.49
37	4E	590	LYS	CB-CA-C	-8.27	97.90	110.97
37	4H	1324	THR	CA-CB-CG2	8.24	124.51	110.50
37	4G	1074	GLN	N-CA-CB	8.24	123.48	110.55
37	4F	1084	ARG	CA-C-N	-8.19	111.48	123.11
37	4F	1084	ARG	C-N-CA	-8.19	111.48	123.11
37	4F	1333	VAL	CA-CB-CG1	8.19	124.31	110.40
37	4H	1074	GLN	CB-CA-C	-8.14	96.32	109.75
47	6A	1320	PRO	N-CA-CB	8.13	110.52	103.36
37	4G	691	MET	CA-CB-CG	8.12	130.34	114.10
43	5J	30	ARG	CA-CB-CG	8.12	130.34	114.10
47	6B	1320	PRO	N-CA-CB	8.12	110.50	103.36
43	5L	30	ARG	CA-CB-CG	8.11	130.32	114.10
43	5K	30	ARG	CA-CB-CG	8.11	130.31	114.10
43	5I	30	ARG	CA-CB-CG	8.10	130.29	114.10
37	4H	1139	THR	N-CA-C	-8.10	93.55	110.80
37	4H	1138	VAL	CB-CA-C	-8.09	98.02	111.29
37	4F	1334	GLU	CB-CA-C	-8.08	94.33	110.42
37	4H	1101	LEU	CB-CG-CD1	-8.08	86.46	110.70
37	4G	1333	VAL	N-CA-CB	-8.04	97.97	111.23
42	5H	140	TYR	CD1-CE1-CZ	8.04	134.06	119.60
37	4E	582	GLN	CB-CA-C	-8.03	97.96	110.81
30	3F	301	VAL	CG1-CB-CG2	-8.02	93.15	110.80
37	4H	954	SER	N-CA-CB	8.02	124.04	110.49
37	4G	792	VAL	CA-C-N	-8.01	108.92	120.29
37	4G	792	VAL	C-N-CA	-8.01	108.92	120.29
42	5H	137	TYR	N-CA-CB	-8.01	96.95	110.49
37	4G	1335	MET	CA-C-N	-8.00	109.74	120.54
37	4G	1335	MET	C-N-CA	-8.00	109.74	120.54
41	5A	118	ASN	CA-C-N	-8.00	106.25	121.54
41	5A	118	ASN	C-N-CA	-8.00	106.25	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4E	583	GLU	CB-CG-CD	7.99	126.18	112.60
37	4F	1318	TYR	N-CA-C	7.99	125.82	113.28
37	4F	1324	THR	CA-CB-CG2	7.93	123.99	110.50
37	4H	430	ASP	CA-C-N	-7.93	109.96	122.65
37	4H	430	ASP	C-N-CA	-7.93	109.96	122.65
37	4H	1089	GLY	CA-C-N	-7.93	109.67	122.36
37	4H	1089	GLY	C-N-CA	-7.93	109.67	122.36
43	5J	30	ARG	CG-CD-NE	7.91	129.40	112.00
37	4H	1084	ARG	CA-C-N	-7.90	112.27	122.77
37	4H	1084	ARG	C-N-CA	-7.90	112.27	122.77
43	5I	30	ARG	CG-CD-NE	7.88	129.34	112.00
43	5K	30	ARG	CG-CD-NE	7.88	129.34	112.00
43	5L	30	ARG	CG-CD-NE	7.88	129.33	112.00
37	4G	935	ARG	NE-CZ-NH1	-7.87	113.63	121.50
37	4F	1084	ARG	CB-CA-C	-7.85	100.57	111.95
37	4F	1094	ALA	CB-CA-C	-7.84	94.72	110.17
37	4E	1762	GLU	N-CA-CB	7.82	117.82	110.39
37	4E	588	PRO	N-CA-CB	7.78	110.63	103.08
37	4H	1334	GLU	N-CA-C	7.78	127.38	110.80
37	4F	1082	LEU	CA-C-O	-7.76	109.41	120.51
37	4H	1136	ARG	CA-C-O	-7.75	113.16	121.45
37	4G	1331	TRP	CA-CB-CG	7.74	128.31	113.60
37	4G	534	HIS	CA-CB-CG	-7.72	106.08	113.80
37	4F	1322	ARG	NE-CZ-NH1	-7.72	113.78	121.50
37	4G	1074	GLN	CB-CG-CD	7.70	125.69	112.60
37	4F	1093	VAL	CA-CB-CG1	7.67	123.45	110.40
36	4D	140	ARG	CA-C-N	7.66	136.16	121.54
36	4D	140	ARG	C-N-CA	7.66	136.16	121.54
37	4H	1323	ILE	N-CA-CB	7.66	121.97	111.41
37	4H	1084	ARG	NE-CZ-NH2	7.65	126.09	119.20
37	4H	1091	VAL	CA-C-N	7.64	136.14	121.54
37	4H	1091	VAL	C-N-CA	7.64	136.14	121.54
37	4G	1321	THR	N-CA-C	7.64	122.32	112.92
43	5L	167	PRO	N-CA-C	7.63	128.19	112.47
37	4H	1325	ARG	N-CA-C	-7.63	100.25	110.55
37	4H	1323	ILE	CB-CA-C	-7.61	99.37	110.63
43	5I	167	PRO	N-CA-C	7.61	128.14	112.47
43	5K	167	PRO	N-CA-C	7.59	128.11	112.47
42	5H	159	VAL	N-CA-C	7.59	123.47	113.07
43	5J	167	PRO	N-CA-C	7.59	128.10	112.47
37	4H	1136	ARG	CA-CB-CG	7.58	129.27	114.10
37	4F	1322	ARG	N-CA-CB	-7.56	99.80	111.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	4B	382	LEU	CB-CG-CD1	-7.55	88.03	110.70
37	4F	1074	GLN	CB-CA-C	7.55	121.95	111.23
37	4F	1332	SER	CB-CA-C	7.55	121.67	109.90
37	4E	579	THR	CA-C-N	7.54	137.03	121.94
37	4E	579	THR	C-N-CA	7.54	137.03	121.94
37	4E	584	ALA	CA-C-N	-7.54	108.40	121.97
37	4E	584	ALA	C-N-CA	-7.54	108.40	121.97
37	4E	576	ALA	CB-CA-C	7.49	125.32	110.42
37	4G	791	ALA	CA-C-N	-7.48	109.72	121.02
37	4G	791	ALA	C-N-CA	-7.48	109.72	121.02
37	4H	1138	VAL	CA-CB-CG1	7.41	123.00	110.40
7	1O	439	PRO	N-CA-CB	7.41	110.22	103.33
43	5L	35	LYS	CB-CG-CD	7.40	128.32	111.30
43	5I	35	LYS	CB-CG-CD	7.40	128.32	111.30
43	5K	35	LYS	CB-CG-CD	7.40	128.31	111.30
43	5J	35	LYS	CB-CG-CD	7.39	128.31	111.30
37	4G	400	PRO	N-CA-CB	7.37	110.99	103.25
37	4H	400	PRO	N-CA-CB	7.36	110.98	103.25
43	5K	20	HIS	N-CA-C	7.36	123.84	108.39
43	5I	20	HIS	N-CA-C	7.36	123.84	108.39
43	5L	20	HIS	N-CA-C	7.35	123.83	108.39
43	5J	20	HIS	N-CA-C	7.35	123.82	108.39
9	1Q	846	ILE	CA-C-N	7.35	135.57	121.54
9	1Q	846	ILE	C-N-CA	7.35	135.57	121.54
37	4F	1334	GLU	N-CA-C	7.34	126.44	110.80
37	4F	400	PRO	N-CA-CB	7.33	110.95	103.25
37	4E	581	LEU	CB-CG-CD2	7.33	132.70	110.70
37	4E	577	LEU	CA-C-N	7.32	135.53	121.54
37	4E	577	LEU	C-N-CA	7.32	135.53	121.54
37	4E	590	LYS	N-CA-C	7.28	124.65	108.27
37	4H	1092	LEU	CB-CG-CD2	7.26	132.49	110.70
51	6N	2073	PRO	N-CA-CB	7.26	110.88	103.25
42	5H	132	GLY	CA-C-N	7.25	135.40	121.54
42	5H	132	GLY	C-N-CA	7.25	135.40	121.54
37	4H	1322	ARG	CD-NE-CZ	7.25	134.54	124.40
37	4F	1082	LEU	O-C-N	-7.24	112.96	122.59
37	4F	1081	HIS	N-CA-CB	-7.23	98.27	110.49
37	4F	1325	ARG	N-CA-C	-7.23	99.76	110.46
42	5H	137	TYR	CB-CA-C	7.22	124.80	110.42
51	6M	2073	PRO	N-CA-CB	7.22	110.83	103.25
37	4H	1141	ASP	CA-C-N	-7.20	111.21	122.51
37	4H	1141	ASP	C-N-CA	-7.20	111.21	122.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	5H	138	ARG	N-CA-C	-7.20	103.44	113.37
37	4H	1082	LEU	CB-CG-CD1	7.20	132.29	110.70
37	4F	970	SER	CA-CB-OG	7.19	125.48	111.10
37	4G	1094	ALA	N-CA-CB	-7.18	97.34	110.63
37	4G	1083	ILE	O-C-N	-7.17	115.09	123.05
41	5A	139	GLU	N-CA-C	-7.17	97.74	108.99
37	4G	1320	GLY	N-CA-C	-7.13	102.65	114.48
37	4E	579	THR	N-CA-CB	7.12	120.71	110.88
37	4H	972	PHE	CB-CG-CD1	7.12	132.80	120.70
43	5I	45	ASN	N-CA-C	7.11	126.31	108.40
37	4G	793	THR	CB-CA-C	-7.11	98.77	110.85
43	5L	45	ASN	N-CA-C	7.10	126.30	108.40
37	4H	672	PHE	CA-C-N	-7.10	111.00	122.36
37	4H	672	PHE	C-N-CA	-7.10	111.00	122.36
43	5J	45	ASN	N-CA-C	7.10	126.28	108.40
43	5K	45	ASN	N-CA-C	7.10	126.28	108.40
37	4F	1334	GLU	CG-CD-OE2	-7.09	102.09	118.40
37	4G	1084	ARG	CD-NE-CZ	7.09	134.33	124.40
37	4E	583	GLU	O-C-N	-7.09	113.17	122.59
42	5H	158	MET	CB-CA-C	7.09	124.52	110.42
37	4F	540	VAL	CA-CB-CG1	7.08	122.44	110.40
37	4H	1138	VAL	CA-CB-CG2	7.07	122.42	110.40
43	5K	10	LEU	CA-CB-CG	-7.06	91.60	116.30
43	5I	10	LEU	CA-CB-CG	-7.05	91.62	116.30
37	4H	1084	ARG	N-CA-CB	7.04	122.99	110.80
43	5J	10	LEU	CA-CB-CG	-7.04	91.64	116.30
34	3T	48	HIS	CA-CB-CG	-7.04	106.76	113.80
42	5H	85	CYS	CA-CB-SG	7.04	130.59	114.40
43	5L	10	LEU	CA-CB-CG	-7.04	91.67	116.30
37	4G	1093	VAL	CA-C-N	7.04	136.88	123.65
37	4G	1093	VAL	C-N-CA	7.04	136.88	123.65
42	5H	137	TYR	OH-CZ-CE2	7.04	141.01	119.90
37	4E	579	THR	OG1-CB-CG2	-7.00	95.29	109.30
1	0E	7	LEU	CB-CG-CD2	-6.99	89.74	110.70
37	4F	1342	LEU	CB-CA-C	6.97	121.49	110.19
42	5H	84	THR	N-CA-CB	-6.97	99.47	110.28
37	4F	1338	PHE	N-CA-C	6.97	118.69	108.86
37	4H	1323	ILE	O-C-N	6.97	130.79	123.26
41	5A	141	ASN	CA-C-N	6.96	130.69	120.95
41	5A	141	ASN	C-N-CA	6.96	130.69	120.95
34	4B	352	LEU	CB-CG-CD1	-6.94	89.89	110.70
34	3N	48	HIS	CA-CB-CG	-6.94	106.86	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4E	582	GLN	CA-CB-CG	6.93	127.96	114.10
37	4E	1762	GLU	CA-CB-CG	-6.93	100.24	114.10
38	4L	25	PRO	O-C-N	-6.91	113.31	122.64
38	4M	25	PRO	O-C-N	-6.90	113.32	122.64
41	5A	163	ASN	CA-C-O	6.89	128.62	119.59
41	5A	23	GLY	N-CA-C	6.89	129.51	113.18
42	5H	138	ARG	N-CA-CB	6.89	125.00	110.67
37	4G	1143	LEU	CA-CB-CG	6.88	140.40	116.30
37	4F	672	PHE	CA-C-N	-6.88	111.36	122.36
37	4F	672	PHE	C-N-CA	-6.88	111.36	122.36
37	4F	1322	ARG	CB-CG-CD	6.87	127.10	111.30
38	4K	25	PRO	O-C-N	-6.87	113.37	122.64
38	4I	25	PRO	O-C-N	-6.86	113.37	122.64
38	4J	25	PRO	O-C-N	-6.86	113.38	122.64
38	4N	25	PRO	O-C-N	-6.85	113.39	122.64
42	5H	137	TYR	CE1-CZ-OH	-6.84	99.38	119.90
37	4F	1351	SER	N-CA-C	6.83	124.92	109.81
12	6e	86	ARG	CG-CD-NE	-6.83	96.96	112.00
37	4F	1093	VAL	N-CA-CB	-6.83	99.95	111.23
6	1N	2073	PRO	N-CA-CB	6.82	110.51	103.00
37	4F	1753	GLN	CA-CB-CG	-6.82	100.45	114.10
37	4E	581	LEU	CA-CB-CG	6.82	140.17	116.30
37	4H	854	TYR	CA-CB-CG	6.78	126.10	113.90
38	4I	38	VAL	CA-C-N	-6.78	110.67	120.29
38	4I	38	VAL	C-N-CA	-6.78	110.67	120.29
38	4N	38	VAL	CA-C-N	-6.77	110.68	120.29
38	4N	38	VAL	C-N-CA	-6.77	110.68	120.29
3	6D	1006	ASP	CA-CB-CG	6.77	119.37	112.60
38	4K	38	VAL	CA-C-N	-6.76	110.69	120.29
38	4K	38	VAL	C-N-CA	-6.76	110.69	120.29
42	5H	93	GLU	N-CA-C	6.76	121.81	113.50
37	4E	577	LEU	CB-CG-CD2	6.75	130.96	110.70
38	4M	38	VAL	CA-C-N	-6.75	110.70	120.29
38	4M	38	VAL	C-N-CA	-6.75	110.70	120.29
37	4G	1083	ILE	N-CA-CB	6.75	122.52	111.45
38	4L	38	VAL	CA-C-N	-6.74	110.71	120.29
38	4L	38	VAL	C-N-CA	-6.74	110.71	120.29
43	5K	52	LEU	CA-CB-CG	-6.74	92.70	116.30
30	3F	301	VAL	CA-CB-CG2	-6.74	98.94	110.40
43	5I	52	LEU	CA-CB-CG	-6.74	92.71	116.30
43	5J	52	LEU	CA-CB-CG	-6.74	92.73	116.30
43	5L	52	LEU	CA-CB-CG	-6.73	92.73	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4G	1321	THR	CB-CA-C	-6.73	99.18	110.56
38	4J	38	VAL	CA-C-N	-6.73	110.73	120.29
38	4J	38	VAL	C-N-CA	-6.73	110.73	120.29
37	4H	1156	LEU	CB-CG-CD1	-6.71	90.56	110.70
37	4G	1091	VAL	CA-CB-CG2	-6.71	98.99	110.40
37	4E	585	VAL	CA-CB-CG1	-6.71	99.00	110.40
37	4G	854	TYR	CA-CB-CG	-6.70	101.84	113.90
37	4F	1335	MET	CB-CA-C	-6.69	94.63	110.02
37	4H	1074	GLN	CB-CG-CD	6.65	123.91	112.60
37	4F	1082	LEU	CB-CG-CD2	-6.64	90.78	110.70
6	1N	2251	PRO	N-CA-CB	6.63	110.22	103.25
9	1Q	701	PHE	CA-C-N	-6.63	114.55	122.44
9	1Q	701	PHE	C-N-CA	-6.63	114.55	122.44
30	3F	328	ILE	CA-CB-CG1	-6.63	99.14	110.40
37	4H	1342	LEU	CD1-CG-CD2	-6.63	96.22	110.80
37	4F	1753	GLN	CB-CG-CD	-6.62	101.35	112.60
38	4N	33	LYS	CG-CD-CE	6.62	126.52	111.30
42	5H	94	CYS	N-CA-C	6.62	122.32	113.72
37	4F	1333	VAL	N-CA-C	6.62	118.00	108.48
37	4H	1144	LEU	CD1-CG-CD2	6.61	125.33	110.80
38	4K	33	LYS	CG-CD-CE	6.61	126.49	111.30
43	5I	168	GLU	O-C-N	-6.60	118.16	123.11
38	4J	33	LYS	CG-CD-CE	6.59	126.45	111.30
38	4M	33	LYS	CG-CD-CE	6.59	126.45	111.30
43	5J	168	GLU	O-C-N	-6.58	118.17	123.11
43	5L	168	GLU	O-C-N	-6.58	118.17	123.11
38	4I	33	LYS	CG-CD-CE	6.58	126.43	111.30
38	4L	33	LYS	CG-CD-CE	6.58	126.43	111.30
43	5K	168	GLU	O-C-N	-6.57	118.18	123.11
37	4H	1335	MET	N-CA-C	6.57	119.03	110.43
37	4F	958	LEU	N-CA-C	6.56	118.52	108.42
37	4F	1324	THR	CA-CB-OG1	6.56	119.44	109.60
37	4F	1085	MET	N-CA-C	-6.55	96.39	107.99
43	5I	49	ALA	O-C-N	-6.55	113.49	122.46
37	4G	1322	ARG	CA-C-O	-6.54	111.15	120.51
41	5A	39	LEU	N-CA-C	6.54	129.31	111.00
43	5J	43	GLN	CA-C-N	-6.52	112.78	122.83
43	5J	43	GLN	C-N-CA	-6.52	112.78	122.83
43	5I	43	GLN	CA-C-N	-6.52	112.79	122.83
43	5I	43	GLN	C-N-CA	-6.52	112.79	122.83
37	4H	1341	ILE	CA-CB-CG1	-6.51	99.33	110.40
43	5K	43	GLN	CA-C-N	-6.51	112.81	122.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	5K	43	GLN	C-N-CA	-6.51	112.81	122.83
43	5L	49	ALA	O-C-N	-6.51	113.54	122.46
43	5L	43	GLN	CA-C-N	-6.50	112.82	122.83
43	5L	43	GLN	C-N-CA	-6.50	112.82	122.83
37	4H	429	TYR	CA-CB-CG	6.50	125.60	113.90
43	5J	49	ALA	O-C-N	-6.50	113.56	122.46
43	5I	169	LEU	N-CA-C	6.49	119.68	110.40
43	5K	49	ALA	O-C-N	-6.49	113.58	122.46
37	4H	1314	LEU	CA-C-N	-6.48	114.11	123.06
37	4H	1314	LEU	C-N-CA	-6.48	114.11	123.06
3	1H	1005	PRO	CA-N-CD	-6.48	102.93	112.00
37	4F	1081	HIS	CA-CB-CG	6.47	120.27	113.80
43	5K	169	LEU	N-CA-C	6.47	119.65	110.40
12	9a	58	ARG	CG-CD-NE	-6.46	97.78	112.00
37	4E	576	ALA	N-CA-CB	6.46	121.40	110.49
37	4E	580	GLU	O-C-N	-6.45	112.84	122.39
37	4G	1083	ILE	CA-C-O	-6.45	113.67	120.76
43	5J	169	LEU	N-CA-C	6.44	119.61	110.40
43	5L	169	LEU	N-CA-C	6.44	119.61	110.40
37	4G	1141	ASP	CA-C-N	-6.44	108.80	121.41
37	4G	1141	ASP	C-N-CA	-6.44	108.80	121.41
37	4G	1083	ILE	CA-C-N	6.43	132.00	122.86
37	4G	1083	ILE	C-N-CA	6.43	132.00	122.86
37	4G	1323	ILE	O-C-N	6.43	130.61	122.57
42	5H	157	LEU	CA-C-N	6.42	133.81	121.54
42	5H	157	LEU	C-N-CA	6.42	133.81	121.54
37	4F	1334	GLU	O-C-N	-6.42	114.06	122.59
37	4H	1083	ILE	CA-CB-CG1	6.41	121.30	110.40
37	4F	540	VAL	CB-CA-C	6.41	119.82	111.81
37	4G	1321	THR	OG1-CB-CG2	-6.40	96.50	109.30
3	1H	988	TRP	CA-CB-CG	6.39	125.74	113.60
37	4H	1137	ALA	O-C-N	-6.38	115.11	123.16
37	4G	1270	PRO	N-CA-CB	6.37	110.01	103.00
37	4H	1270	PRO	N-CA-CB	6.37	110.01	103.00
37	4G	1085	MET	CB-CG-SD	6.37	131.79	112.70
37	4G	826	LEU	CB-CG-CD1	-6.36	91.61	110.70
37	4F	1270	PRO	N-CA-CB	6.36	109.99	103.00
37	4F	1334	GLU	CG-CD-OE1	6.36	133.02	118.40
37	4F	1084	ARG	N-CA-CB	6.35	121.86	111.58
37	4H	1074	GLN	N-CA-CB	6.34	120.77	110.43
37	4F	1076	THR	CA-CB-OG1	6.34	119.11	109.60
37	4H	1136	ARG	CA-C-N	6.34	133.08	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4H	1136	ARG	C-N-CA	6.34	133.08	122.87
5	1L	120	LEU	N-CA-C	6.34	113.92	108.22
37	4F	1318	TYR	N-CA-CB	-6.34	106.95	114.17
42	5H	139	LEU	N-CA-C	-6.33	97.31	110.80
41	5A	140	GLU	N-CA-CB	6.33	121.19	110.49
37	4H	1135	PHE	CA-C-N	-6.33	111.48	121.87
37	4H	1135	PHE	C-N-CA	-6.33	111.48	121.87
37	4E	578	ASP	N-CA-C	6.32	124.26	110.80
38	4I	49	ILE	N-CA-CB	-6.32	100.81	111.23
38	4M	49	ILE	N-CA-CB	-6.31	100.81	111.23
48	6F	909	ASP	CA-C-N	6.31	133.59	121.54
48	6F	909	ASP	C-N-CA	6.31	133.59	121.54
38	4K	49	ILE	N-CA-CB	-6.31	100.82	111.23
5	1M	120	LEU	N-CA-C	6.30	113.89	108.22
37	4E	587	ALA	CA-C-N	6.30	126.87	120.38
37	4E	587	ALA	C-N-CA	6.30	126.87	120.38
38	4N	49	ILE	N-CA-CB	-6.30	100.84	111.23
41	5A	139	GLU	CA-C-N	-6.30	109.51	121.54
41	5A	139	GLU	C-N-CA	-6.30	109.51	121.54
41	5A	168	GLY	N-CA-C	-6.30	105.93	113.99
48	6E	909	ASP	CA-C-N	6.30	133.56	121.54
48	6E	909	ASP	C-N-CA	6.30	133.56	121.54
38	4J	49	ILE	N-CA-CB	-6.29	100.85	111.23
38	4L	49	ILE	N-CA-CB	-6.27	100.88	111.23
3	6D	683	ARG	NE-CZ-NH1	-6.27	115.23	121.50
37	4H	974	VAL	CA-CB-CG1	6.27	121.05	110.40
38	4I	29	LYS	CB-CG-CD	-6.26	96.89	111.30
38	4K	29	LYS	CB-CG-CD	-6.26	96.90	111.30
38	4L	29	LYS	CB-CG-CD	-6.26	96.90	111.30
38	4N	29	LYS	CB-CG-CD	-6.26	96.91	111.30
38	4J	29	LYS	CB-CG-CD	-6.25	96.92	111.30
38	4M	29	LYS	CB-CG-CD	-6.25	96.92	111.30
37	4G	1092	LEU	CB-CG-CD2	-6.25	91.94	110.70
37	4G	1333	VAL	CA-C-N	6.25	133.48	121.54
37	4G	1333	VAL	C-N-CA	6.25	133.48	121.54
37	4G	1091	VAL	CG1-CB-CG2	-6.24	97.08	110.80
36	4D	221	SER	N-CA-C	-6.22	97.55	110.80
37	4G	431	ALA	N-CA-CB	-6.22	104.33	111.79
37	4E	589	PRO	N-CA-CB	-6.21	96.73	103.25
37	4F	1324	THR	OG1-CB-CG2	-6.21	96.88	109.30
37	4F	1340	PRO	CA-C-N	6.21	131.20	123.12
37	4F	1340	PRO	C-N-CA	6.21	131.20	123.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1J	422	SER	N-CA-C	6.20	123.01	113.28
6	1N	492	GLU	CA-C-N	6.20	133.38	121.54
6	1N	492	GLU	C-N-CA	6.20	133.38	121.54
4	1K	422	SER	N-CA-C	6.19	123.00	113.28
38	4I	36	VAL	CG1-CB-CG2	6.19	124.42	110.80
38	4K	36	VAL	CG1-CB-CG2	6.19	124.42	110.80
37	4G	1144	LEU	CA-CB-CG	6.19	137.97	116.30
38	4L	36	VAL	CG1-CB-CG2	6.19	124.42	110.80
38	4M	36	VAL	CG1-CB-CG2	6.19	124.42	110.80
38	4N	36	VAL	CG1-CB-CG2	6.19	124.42	110.80
47	6A	56	MET	CB-CG-SD	-6.19	94.13	112.70
37	4F	1324	THR	N-CA-C	-6.19	94.77	107.70
38	4J	36	VAL	CG1-CB-CG2	6.19	124.41	110.80
37	4G	671	LEU	CD1-CG-CD2	6.19	124.41	110.80
47	6B	56	MET	CB-CG-SD	-6.18	94.16	112.70
43	5I	168	GLU	OE1-CD-OE2	-6.18	108.08	122.90
37	4F	1094	ALA	CA-C-N	6.17	127.56	119.84
37	4F	1094	ALA	C-N-CA	6.17	127.56	119.84
43	5K	168	GLU	OE1-CD-OE2	-6.16	108.11	122.90
43	5J	168	GLU	OE1-CD-OE2	-6.15	108.14	122.90
10	1S	359	SER	N-CA-C	-6.15	97.71	110.80
43	5L	168	GLU	OE1-CD-OE2	-6.13	108.18	122.90
42	5H	94	CYS	CA-CB-SG	-6.12	100.33	114.40
38	4M	34	ALA	CA-C-N	-6.10	110.29	121.52
38	4M	34	ALA	C-N-CA	-6.10	110.29	121.52
41	5A	142	ARG	N-CA-C	-6.10	100.81	109.96
38	4L	34	ALA	CA-C-N	-6.10	110.30	121.52
38	4L	34	ALA	C-N-CA	-6.10	110.30	121.52
38	4N	34	ALA	CA-C-N	-6.10	110.30	121.52
38	4N	34	ALA	C-N-CA	-6.10	110.30	121.52
38	4J	34	ALA	CA-C-N	-6.09	110.31	121.52
38	4J	34	ALA	C-N-CA	-6.09	110.31	121.52
38	4I	34	ALA	CA-C-N	-6.09	110.32	121.52
38	4I	34	ALA	C-N-CA	-6.09	110.32	121.52
37	4G	1081	HIS	N-CA-C	-6.09	97.83	110.80
38	4K	34	ALA	CA-C-N	-6.09	110.32	121.52
38	4K	34	ALA	C-N-CA	-6.09	110.32	121.52
42	5H	49	ILE	CG1-CB-CG2	-6.09	92.44	110.70
35	4C	285	SER	N-CA-CB	-6.09	100.20	110.49
37	4G	538	GLU	CA-CB-CG	-6.08	101.94	114.10
3	1H	851	SER	CA-CB-OG	-6.07	98.95	111.10
43	5J	166	ALA	C-N-CD	-6.07	100.10	125.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	5K	166	ALA	C-N-CD	-6.07	100.11	125.00
43	5I	166	ALA	C-N-CD	-6.07	100.11	125.00
37	4F	1073	LEU	N-CA-CB	-6.07	102.07	110.38
43	5L	166	ALA	C-N-CD	-6.06	100.15	125.00
37	4H	974	VAL	CA-CB-CG2	-6.04	100.13	110.40
43	5K	35	LYS	CG-CD-CE	6.04	125.18	111.30
37	4G	664	TYR	CA-CB-CG	6.03	124.76	113.90
12	9e	58	ARG	CG-CD-NE	-6.03	98.72	112.00
43	5J	35	LYS	CG-CD-CE	6.02	125.16	111.30
37	4G	1082	LEU	N-CA-C	-6.02	97.97	110.80
3	1H	1006	ASP	CB-CA-C	6.01	122.39	110.42
43	5L	35	LYS	CG-CD-CE	6.01	125.13	111.30
41	5A	38	LYS	N-CA-C	6.01	118.32	108.52
41	5A	164	GLY	CA-C-N	-6.01	112.35	120.82
41	5A	164	GLY	C-N-CA	-6.01	112.35	120.82
43	5I	35	LYS	CG-CD-CE	6.00	125.11	111.30
37	4F	1316	GLN	CB-CG-CD	5.98	122.76	112.60
37	4F	1342	LEU	N-CA-CB	-5.98	100.68	110.42
3	6D	1010	LEU	CA-CB-CG	-5.96	95.42	116.30
38	4N	30	ALA	N-CA-CB	5.96	119.42	110.19
41	5A	142	ARG	N-CA-CB	5.95	118.71	109.85
37	4F	1075	VAL	CA-C-N	5.93	132.54	123.23
37	4F	1075	VAL	C-N-CA	5.93	132.54	123.23
42	5H	137	TYR	CG-CD1-CE1	5.93	130.09	121.20
38	4K	30	ALA	N-CA-CB	5.93	119.38	110.19
3	6D	1006	ASP	N-CA-CB	5.92	118.70	110.17
37	4G	1084	ARG	NH1-CZ-NH2	-5.92	111.60	119.30
41	5A	163	ASN	N-CA-C	-5.92	105.33	113.56
38	4J	30	ALA	N-CA-CB	5.92	119.37	110.19
10	1S	359	SER	CA-C-N	-5.92	113.30	122.59
10	1S	359	SER	C-N-CA	-5.92	113.30	122.59
38	4M	30	ALA	N-CA-CB	5.92	119.36	110.19
38	4I	30	ALA	N-CA-CB	5.92	119.36	110.19
38	4L	30	ALA	N-CA-CB	5.91	119.35	110.19
37	4H	1137	ALA	CA-C-O	-5.91	114.48	121.16
37	4G	1136	ARG	CD-NE-CZ	-5.90	116.14	124.40
38	4O	34	ALA	CA-C-N	5.90	132.81	121.54
38	4O	34	ALA	C-N-CA	5.90	132.81	121.54
37	4F	1084	ARG	N-CA-C	-5.90	95.22	107.67
37	4E	581	LEU	CB-CG-CD1	5.90	128.39	110.70
37	4G	972	PHE	N-CA-CB	5.89	120.55	111.24
37	4H	1084	ARG	O-C-N	-5.89	116.42	123.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4H	1350	ILE	CA-CB-CG1	-5.89	100.39	110.40
37	4G	972	PHE	CB-CA-C	-5.89	99.78	111.91
42	5H	156	GLU	N-CA-CB	-5.88	101.67	111.20
30	3F	386	MET	CB-CG-SD	5.88	130.34	112.70
37	4F	1076	THR	N-CA-CB	5.88	121.49	110.56
37	4E	576	ALA	CA-C-N	5.87	132.75	121.54
37	4E	576	ALA	C-N-CA	5.87	132.75	121.54
47	6A	409	ARG	CG-CD-NE	5.87	124.91	112.00
37	4H	1091	VAL	N-CA-C	5.87	121.54	109.34
47	6B	409	ARG	CG-CD-NE	5.86	124.89	112.00
37	4F	972	PHE	CA-CB-CG	-5.86	107.94	113.80
42	5H	137	TYR	CA-CB-CG	5.86	124.44	113.90
47	6B	64	GLN	CA-CB-CG	-5.86	102.39	114.10
37	4H	1137	ALA	CA-C-N	5.86	132.51	121.97
37	4H	1137	ALA	C-N-CA	5.86	132.51	121.97
37	4H	1136	ARG	NE-CZ-NH1	5.85	127.35	121.50
37	4F	1316	GLN	CB-CA-C	-5.84	99.25	109.07
37	4H	1324	THR	N-CA-C	-5.84	95.61	107.41
47	6A	64	GLN	CA-CB-CG	-5.84	102.41	114.10
3	1H	1006	ASP	CA-C-N	5.84	132.70	121.54
3	1H	1006	ASP	C-N-CA	5.84	132.70	121.54
37	4G	671	LEU	CB-CG-CD1	-5.84	93.18	110.70
41	5A	142	ARG	CA-C-N	-5.83	110.40	121.54
41	5A	142	ARG	C-N-CA	-5.83	110.40	121.54
37	4G	1334	GLU	N-CA-CB	-5.82	100.65	110.49
37	4E	578	ASP	N-CA-CB	-5.82	100.66	110.49
37	4G	1083	ILE	CG1-CB-CG2	-5.82	93.25	110.70
37	4G	1323	ILE	CA-C-O	-5.81	113.52	120.78
42	5H	131	ARG	CA-C-N	5.80	132.78	121.41
42	5H	131	ARG	C-N-CA	5.80	132.78	121.41
37	4G	1139	THR	N-CA-CB	5.78	120.25	110.49
10	1S	39	MET	O-C-N	-5.77	114.91	122.59
43	5K	52	LEU	CB-CG-CD2	-5.77	93.39	110.70
43	5J	52	LEU	CB-CG-CD2	-5.76	93.42	110.70
43	5I	52	LEU	CB-CG-CD2	-5.76	93.43	110.70
43	5L	52	LEU	CB-CG-CD2	-5.75	93.45	110.70
42	5H	158	MET	CB-CG-SD	5.74	129.93	112.70
41	5A	39	LEU	N-CA-CB	-5.74	100.74	110.50
42	5H	96	ALA	CA-C-N	-5.73	112.80	120.54
42	5H	96	ALA	C-N-CA	-5.73	112.80	120.54
37	4F	1315	VAL	CA-CB-CG2	5.73	120.14	110.40
38	4N	69	CYS	CA-CB-SG	5.72	127.57	114.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4J	69	CYS	CA-CB-SG	5.72	127.56	114.40
38	4K	69	CYS	CA-CB-SG	5.72	127.56	114.40
38	4M	69	CYS	CA-CB-SG	5.72	127.55	114.40
9	1Q	740	VAL	N-CA-C	5.71	121.23	109.34
38	4I	69	CYS	CA-CB-SG	5.71	127.55	114.40
38	4L	69	CYS	CA-CB-SG	5.71	127.54	114.40
37	4F	1093	VAL	CA-C-N	5.71	135.74	121.80
37	4F	1093	VAL	C-N-CA	5.71	135.74	121.80
47	6A	86	GLU	CA-CB-CG	-5.71	102.69	114.10
37	4F	1332	SER	N-CA-C	-5.71	101.60	110.10
37	4H	1156	LEU	CA-CB-CG	5.70	136.26	116.30
10	1S	140	VAL	N-CA-C	5.70	112.31	106.21
47	6B	86	GLU	CA-CB-CG	-5.70	102.70	114.10
37	4F	1081	HIS	CA-C-N	5.70	132.42	121.54
37	4F	1081	HIS	C-N-CA	5.70	132.42	121.54
37	4H	1139	THR	N-CA-CB	-5.69	100.87	110.49
37	4E	584	ALA	CA-C-O	5.68	126.93	120.80
37	4F	856	MET	CB-CG-SD	-5.67	95.68	112.70
37	4F	1073	LEU	CB-CG-CD1	-5.67	93.69	110.70
38	4M	24	THR	O-C-N	-5.67	113.93	123.00
42	5H	158	MET	CA-CB-CG	5.65	125.40	114.10
42	5H	157	LEU	CA-CB-CG	5.65	136.07	116.30
3	1H	1005	PRO	CA-C-N	-5.65	110.76	121.54
3	1H	1005	PRO	C-N-CA	-5.65	110.76	121.54
31	3I	286	LEU	CB-CG-CD1	-5.64	93.77	110.70
38	4J	26	GLU	CA-CB-CG	-5.64	102.81	114.10
38	4L	26	GLU	CA-CB-CG	-5.64	102.82	114.10
37	4E	591	PRO	CA-C-N	-5.64	115.27	122.77
37	4E	591	PRO	C-N-CA	-5.64	115.27	122.77
41	5A	144	HIS	N-CA-CB	5.64	120.02	110.49
37	4H	1138	VAL	CG1-CB-CG2	-5.64	98.40	110.80
38	4L	24	THR	O-C-N	-5.64	113.98	123.00
37	4H	1324	THR	OG1-CB-CG2	-5.63	98.03	109.30
38	4M	26	GLU	CA-CB-CG	-5.63	102.84	114.10
38	4K	26	GLU	CA-CB-CG	-5.63	102.84	114.10
38	4N	26	GLU	CA-CB-CG	-5.63	102.84	114.10
42	5H	91	TYR	CB-CG-CD1	5.63	129.24	120.80
38	4I	24	THR	O-C-N	-5.62	114.00	123.00
47	6B	809	ALA	CA-C-N	5.62	135.52	121.80
47	6B	809	ALA	C-N-CA	5.62	135.52	121.80
36	4D	222	TYR	CA-CB-CG	-5.62	103.78	113.90
38	4N	24	THR	O-C-N	-5.62	114.01	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4K	24	THR	O-C-N	-5.62	114.01	123.00
37	4G	567	LEU	CA-CB-CG	-5.61	96.66	116.30
38	4J	24	THR	O-C-N	-5.61	114.03	123.00
47	6A	809	ALA	CA-C-N	5.61	135.49	121.80
47	6A	809	ALA	C-N-CA	5.61	135.49	121.80
38	4I	26	GLU	CA-CB-CG	-5.61	102.88	114.10
42	5H	91	TYR	CB-CA-C	5.60	120.21	110.68
37	4E	583	GLU	N-CA-CB	-5.60	101.02	110.49
43	5K	33	LEU	CB-CG-CD2	-5.59	93.92	110.70
37	4E	1123	LEU	CA-CB-CG	-5.59	96.73	116.30
43	5J	33	LEU	CB-CG-CD2	-5.59	93.92	110.70
43	5L	33	LEU	CB-CG-CD2	-5.58	93.95	110.70
43	5I	33	LEU	CB-CG-CD2	-5.58	93.96	110.70
37	4H	1322	ARG	CB-CA-C	-5.57	99.33	110.42
37	4F	1092	LEU	CA-CB-CG	-5.57	96.81	116.30
41	5A	21	GLY	CA-C-N	-5.56	115.02	122.42
41	5A	21	GLY	C-N-CA	-5.56	115.02	122.42
37	4F	1084	ARG	CB-CG-CD	-5.55	98.52	111.30
37	4F	959	LEU	N-CA-C	5.54	117.34	108.41
4	1K	424	VAL	N-CA-C	5.54	120.87	109.34
43	5I	52	LEU	CA-C-O	-5.54	114.97	120.90
43	5L	52	LEU	CA-C-O	-5.54	114.97	120.90
4	1J	424	VAL	N-CA-C	5.54	120.86	109.34
38	4L	24	THR	C-N-CD	-5.53	102.34	125.00
37	4F	1319	ASP	CB-CA-C	-5.52	101.79	110.85
37	4G	1080	GLY	N-CA-C	-5.52	108.51	115.08
43	5L	33	LEU	N-CA-C	5.52	117.38	111.36
38	4M	24	THR	C-N-CD	-5.52	102.37	125.00
9	1Q	763	MET	CA-C-N	5.52	132.08	121.54
9	1Q	763	MET	C-N-CA	5.52	132.08	121.54
42	5H	131	ARG	CA-CB-CG	-5.52	103.07	114.10
43	5K	52	LEU	CA-C-O	-5.52	115.00	120.90
37	4F	1138	VAL	CB-CA-C	-5.52	102.24	111.29
38	4J	24	THR	C-N-CD	-5.51	102.40	125.00
38	4K	24	THR	C-N-CD	-5.51	102.40	125.00
38	4N	24	THR	C-N-CD	-5.51	102.40	125.00
38	4I	24	THR	C-N-CD	-5.51	102.40	125.00
37	4F	1094	ALA	O-C-N	-5.51	114.98	121.32
4	1K	423	GLU	CA-C-N	5.51	131.88	121.97
4	1K	423	GLU	C-N-CA	5.51	131.88	121.97
43	5J	52	LEU	CA-C-O	-5.50	115.01	120.90
42	5H	159	VAL	CG1-CB-CG2	5.50	122.90	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	5I	33	LEU	N-CA-C	5.50	117.36	111.36
43	5J	33	LEU	N-CA-C	5.49	117.35	111.36
2	1D	88	LEU	CA-CB-CG	-5.49	97.08	116.30
47	6B	75	ASP	N-CA-CB	5.48	119.76	110.49
4	1J	423	GLU	CA-C-N	5.47	131.82	121.97
4	1J	423	GLU	C-N-CA	5.47	131.82	121.97
37	4G	1337	GLY	CA-C-N	-5.47	113.14	123.27
37	4G	1337	GLY	C-N-CA	-5.47	113.14	123.27
37	4H	953	PRO	CB-CA-C	5.47	120.58	111.56
47	6A	75	ASP	N-CA-CB	5.47	119.73	110.49
43	5K	33	LEU	N-CA-C	5.46	117.31	111.36
37	4E	1110	GLY	CA-C-N	-5.46	114.13	121.66
37	4E	1110	GLY	C-N-CA	-5.46	114.13	121.66
38	4J	31	ALA	CA-C-N	-5.46	112.52	121.19
38	4J	31	ALA	C-N-CA	-5.46	112.52	121.19
37	4G	1344	SER	N-CA-C	5.46	117.61	110.08
38	4L	31	ALA	CA-C-N	-5.45	112.52	121.19
38	4L	31	ALA	C-N-CA	-5.45	112.52	121.19
37	4F	1321	THR	N-CA-CB	5.45	119.70	110.49
37	4F	970	SER	O-C-N	-5.45	118.07	123.46
34	3Y	359	ARG	CB-CG-CD	-5.44	98.79	111.30
37	4E	588	PRO	CA-C-O	-5.44	112.67	120.56
12	5a	106	TYR	CA-C-N	5.44	131.92	121.54
12	5a	106	TYR	C-N-CA	5.44	131.92	121.54
12	Da	106	TYR	CA-C-N	5.43	131.91	121.54
12	Da	106	TYR	C-N-CA	5.43	131.91	121.54
38	4I	31	ALA	CA-C-N	-5.43	112.56	121.19
38	4I	31	ALA	C-N-CA	-5.43	112.56	121.19
37	4F	539	GLN	CA-C-N	5.42	127.47	120.70
37	4F	539	GLN	C-N-CA	5.42	127.47	120.70
38	4K	31	ALA	CA-C-N	-5.42	112.57	121.19
38	4K	31	ALA	C-N-CA	-5.42	112.57	121.19
38	4N	31	ALA	CA-C-N	-5.42	112.58	121.19
38	4N	31	ALA	C-N-CA	-5.42	112.58	121.19
47	6B	62	ARG	CA-CB-CG	5.41	124.93	114.10
9	1Q	747	ASP	CA-C-N	5.41	131.86	121.54
9	1Q	747	ASP	C-N-CA	5.41	131.86	121.54
37	4H	428	VAL	CA-C-N	-5.41	114.19	122.62
37	4H	428	VAL	C-N-CA	-5.41	114.19	122.62
43	5K	158	HIS	CA-CB-CG	5.40	119.20	113.80
37	4H	1084	ARG	NE-CZ-NH1	-5.40	116.10	121.50
42	5H	135	ARG	CA-C-O	-5.40	112.79	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4M	31	ALA	CA-C-N	-5.39	112.61	121.19
38	4M	31	ALA	C-N-CA	-5.39	112.61	121.19
47	6A	62	ARG	CA-CB-CG	5.39	124.89	114.10
12	Ce	237	THR	CA-CB-CG2	-5.39	101.33	110.50
2	1F	60	ASP	CA-C-N	5.38	131.66	121.97
2	1F	60	ASP	C-N-CA	5.38	131.66	121.97
9	1Q	764	ASP	N-CA-C	5.38	122.25	110.80
44	5U	149	MET	CB-CG-SD	-5.38	96.56	112.70
43	5I	158	HIS	CA-CB-CG	5.37	119.17	113.80
2	1F	61	VAL	N-CA-CB	-5.37	102.37	111.23
42	5H	93	GLU	CA-CB-CG	5.37	124.84	114.10
43	5L	158	HIS	CA-CB-CG	5.35	119.15	113.80
12	2e	106	TYR	CA-C-N	5.35	131.75	121.54
12	2e	106	TYR	C-N-CA	5.35	131.75	121.54
2	1D	60	ASP	CA-C-N	5.34	131.59	121.97
2	1D	60	ASP	C-N-CA	5.34	131.59	121.97
12	3a	86	ARG	CA-CB-CG	5.34	124.79	114.10
2	1G	60	ASP	CA-C-N	5.34	131.59	121.97
2	1G	60	ASP	C-N-CA	5.34	131.59	121.97
42	5H	84	THR	CA-CB-CG2	5.34	119.58	110.50
34	3V	242	THR	CA-C-N	5.34	131.74	121.54
34	3V	242	THR	C-N-CA	5.34	131.74	121.54
37	4G	1094	ALA	CB-CA-C	-5.33	101.11	109.22
41	5A	169	LEU	CB-CA-C	5.33	119.66	110.86
43	5I	44	THR	CA-C-O	-5.33	113.28	120.15
43	5K	44	THR	CA-C-O	-5.33	113.28	120.15
43	5J	158	HIS	CA-CB-CG	5.32	119.12	113.80
43	5J	37	THR	CA-CB-CG2	5.32	119.54	110.50
3	1H	1006	ASP	N-CA-CB	-5.32	101.51	110.49
43	5L	37	THR	CA-CB-CG2	5.32	119.54	110.50
2	1E	60	ASP	CA-C-N	5.31	131.53	121.97
2	1E	60	ASP	C-N-CA	5.31	131.53	121.97
43	5I	37	THR	CA-CB-CG2	5.31	119.53	110.50
43	5K	37	THR	CA-CB-CG2	5.31	119.53	110.50
43	5J	44	THR	CA-C-O	-5.31	113.31	120.15
9	1Q	761	VAL	N-CA-C	5.30	120.37	109.34
34	4A	242	THR	CA-C-N	5.30	131.67	121.54
34	4A	242	THR	C-N-CA	5.30	131.67	121.54
37	4G	1336	ASP	N-CA-C	-5.30	104.74	111.11
37	4G	1083	ILE	N-CA-C	5.30	116.30	108.45
37	4G	431	ALA	CB-CA-C	5.30	119.93	111.24
43	5L	55	TYR	CA-CB-CG	5.30	123.44	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	5I	55	TYR	CA-CB-CG	5.30	123.44	113.90
37	4E	589	PRO	CA-CB-CG	5.29	114.56	104.50
43	5J	55	TYR	CA-CB-CG	5.29	123.42	113.90
43	5L	44	THR	CA-C-O	-5.29	113.33	120.15
42	5H	135	ARG	CD-NE-CZ	5.28	131.79	124.40
43	5K	55	TYR	CA-CB-CG	5.27	123.39	113.90
38	4O	9	ASP	N-CA-CB	-5.27	101.59	110.49
1	0A	186	ILE	CG1-CB-CG2	5.26	126.48	110.70
37	4G	854	TYR	CA-C-N	-5.26	115.12	123.12
37	4G	854	TYR	C-N-CA	-5.26	115.12	123.12
1	0X	186	ILE	CG1-CB-CG2	5.26	126.47	110.70
37	4G	1101	LEU	CD1-CG-CD2	5.25	122.36	110.80
1	0R	186	ILE	CG1-CB-CG2	5.25	126.45	110.70
47	6A	177	GLU	N-CA-CB	-5.25	102.18	110.06
37	4G	1074	GLN	N-CA-C	5.25	117.08	108.52
12	4a	106	TYR	CA-C-N	5.24	131.56	121.54
12	4a	106	TYR	C-N-CA	5.24	131.56	121.54
37	4G	690	CYS	N-CA-C	5.24	117.66	107.71
4	1J	422	SER	N-CA-CB	-5.24	108.20	114.17
47	6A	183	GLN	CA-CB-CG	5.23	124.55	114.10
37	4G	1333	VAL	CG1-CB-CG2	-5.22	99.31	110.80
37	4H	1144	LEU	CA-CB-CG	-5.22	98.02	116.30
47	6B	183	GLN	CA-CB-CG	5.22	124.54	114.10
37	4H	540	VAL	CA-CB-CG1	-5.22	101.53	110.40
30	3F	301	VAL	CB-CA-C	5.22	119.18	112.14
47	6B	177	GLU	N-CA-CB	-5.21	102.24	110.06
37	4G	1085	MET	CA-C-N	5.21	132.25	121.32
37	4G	1085	MET	C-N-CA	5.21	132.25	121.32
43	5L	30	ARG	CD-NE-CZ	5.21	131.69	124.40
4	1K	422	SER	N-CA-CB	-5.20	108.24	114.17
12	Ae	281	TYR	CA-CB-CG	5.20	123.26	113.90
43	5L	33	LEU	CA-CB-CG	5.20	134.50	116.30
37	4G	567	LEU	CB-CG-CD1	-5.20	95.10	110.70
43	5I	33	LEU	CA-CB-CG	5.20	134.49	116.30
43	5J	33	LEU	CA-CB-CG	5.20	134.48	116.30
43	5K	30	ARG	CD-NE-CZ	5.19	131.67	124.40
48	6F	104	GLU	CA-C-N	5.19	131.45	121.54
48	6F	104	GLU	C-N-CA	5.19	131.45	121.54
47	6A	409	ARG	CD-NE-CZ	5.19	131.66	124.40
12	De	106	TYR	CA-C-N	5.18	131.44	121.54
12	De	106	TYR	C-N-CA	5.18	131.44	121.54
43	5K	33	LEU	CA-CB-CG	5.18	134.43	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4H	1321	THR	CA-C-N	5.18	131.43	121.54
37	4H	1321	THR	C-N-CA	5.18	131.43	121.54
37	4G	689	ARG	CA-CB-CG	5.18	124.45	114.10
37	4H	1074	GLN	N-CA-C	5.17	117.67	109.24
37	4F	1321	THR	CA-C-N	5.17	130.08	122.63
37	4F	1321	THR	C-N-CA	5.17	130.08	122.63
43	5I	30	ARG	CD-NE-CZ	5.17	131.64	124.40
48	6E	104	GLU	CA-C-N	5.17	131.41	121.54
48	6E	104	GLU	C-N-CA	5.17	131.41	121.54
37	4G	687	MET	N-CA-CB	5.16	118.50	110.44
43	5J	30	ARG	CD-NE-CZ	5.16	131.63	124.40
37	4E	587	ALA	O-C-N	-5.16	115.39	121.32
9	1Q	791	GLY	CA-C-N	5.15	131.38	121.54
9	1Q	791	GLY	C-N-CA	5.15	131.38	121.54
37	4H	1073	LEU	N-CA-C	5.15	117.47	108.76
3	6D	1002	PRO	CA-C-N	-5.15	116.31	122.44
3	6D	1002	PRO	C-N-CA	-5.15	116.31	122.44
42	5H	146	THR	N-CA-C	5.15	117.19	108.02
37	4H	954	SER	CB-CA-C	-5.15	100.17	110.42
6	1N	2697	LEU	CA-CB-CG	-5.15	98.28	116.30
3	6D	1006	ASP	OD1-CG-OD2	-5.15	110.55	122.90
3	6D	1011	GLU	N-CA-CB	-5.14	101.80	110.49
12	Ba	106	TYR	CA-C-N	5.14	131.36	121.54
12	Ba	106	TYR	C-N-CA	5.14	131.36	121.54
12	2a	106	TYR	CA-C-N	5.14	131.36	121.54
12	2a	106	TYR	C-N-CA	5.14	131.36	121.54
37	4F	1340	PRO	N-CA-C	5.14	123.06	112.47
47	6B	409	ARG	CD-NE-CZ	5.14	131.60	124.40
37	4E	591	PRO	CA-CB-CG	5.14	114.26	104.50
37	4F	1334	GLU	CA-CB-CG	-5.14	103.82	114.10
42	5H	143	VAL	CB-CA-C	-5.14	105.36	112.24
12	3e	106	TYR	CA-C-N	5.13	131.35	121.54
12	3e	106	TYR	C-N-CA	5.13	131.35	121.54
37	4E	587	ALA	N-CA-CB	-5.13	101.23	110.37
43	5I	33	LEU	CA-C-N	5.13	128.52	120.82
43	5I	33	LEU	C-N-CA	5.13	128.52	120.82
37	4E	578	ASP	CB-CG-OD1	-5.13	106.59	118.40
37	4G	1322	ARG	CA-CB-CG	5.13	124.37	114.10
43	5L	33	LEU	CA-C-N	5.13	128.52	120.82
43	5L	33	LEU	C-N-CA	5.13	128.52	120.82
12	1a	106	TYR	CA-C-N	5.13	131.33	121.54
12	1a	106	TYR	C-N-CA	5.13	131.33	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	4H	1085	MET	CA-CB-CG	-5.13	103.84	114.10
42	5H	139	LEU	N-CA-CB	5.12	119.15	110.49
37	4G	685	ALA	CA-C-N	-5.12	111.71	121.94
37	4G	685	ALA	C-N-CA	-5.12	111.71	121.94
43	5K	33	LEU	CA-C-N	5.12	128.49	120.82
43	5K	33	LEU	C-N-CA	5.12	128.49	120.82
44	5U	128	MET	CG-SD-CE	-5.12	89.65	100.90
43	5J	33	LEU	CA-C-N	5.11	128.49	120.82
43	5J	33	LEU	C-N-CA	5.11	128.49	120.82
1	0F	261	LYS	CB-CG-CD	-5.11	99.55	111.30
12	9a	106	TYR	CA-C-N	5.09	131.27	121.54
12	9a	106	TYR	C-N-CA	5.09	131.27	121.54
37	4E	574	LEU	CA-C-O	-5.09	113.72	119.78
37	4G	793	THR	CA-C-N	-5.09	112.95	120.28
37	4G	793	THR	C-N-CA	-5.09	112.95	120.28
38	4K	38	VAL	CA-CB-CG1	-5.09	101.75	110.40
12	8e	106	TYR	CA-C-N	5.08	131.24	121.54
12	8e	106	TYR	C-N-CA	5.08	131.24	121.54
37	4H	954	SER	CA-CB-OG	5.08	121.25	111.10
38	4M	38	VAL	CA-CB-CG1	-5.08	101.77	110.40
42	5H	144	PHE	N-CA-C	-5.07	106.78	113.17
38	4N	38	VAL	CA-CB-CG1	-5.07	101.78	110.40
49	6I	125	ASP	CB-CA-C	5.07	117.62	109.41
38	4I	38	VAL	CA-CB-CG1	-5.06	101.80	110.40
37	4F	1074	GLN	N-CA-C	5.06	117.20	107.44
4	1J	398	LEU	N-CA-C	5.05	116.82	110.91
38	4L	38	VAL	CA-CB-CG1	-5.05	101.81	110.40
34	4A	382	LEU	CB-CG-CD1	-5.05	95.55	110.70
49	6H	125	ASP	CB-CA-C	5.05	117.59	109.41
38	4J	38	VAL	CA-CB-CG1	-5.05	101.82	110.40
8	1P	887	LEU	CA-CB-CG	-5.04	98.64	116.30
37	4G	1323	ILE	CG1-CB-CG2	-5.04	95.57	110.70
44	5S	149	MET	CB-CG-SD	-5.04	97.59	112.70
4	1K	398	LEU	N-CA-C	5.03	116.80	110.91
49	6J	125	ASP	CB-CA-C	5.03	117.56	109.41
12	Be	106	TYR	CA-C-N	5.03	131.15	121.54
12	Be	106	TYR	C-N-CA	5.03	131.15	121.54
43	5I	37	THR	CA-C-N	-5.02	115.22	122.00
43	5I	37	THR	C-N-CA	-5.02	115.22	122.00
12	1e	106	TYR	CA-C-N	5.02	131.12	121.54
12	1e	106	TYR	C-N-CA	5.02	131.12	121.54
38	4I	29	LYS	CD-CE-NZ	-5.01	95.85	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4J	29	LYS	CD-CE-NZ	-5.01	95.86	111.90
43	5K	37	THR	CA-C-N	-5.01	115.23	122.00
43	5K	37	THR	C-N-CA	-5.01	115.23	122.00
2	1G	61	VAL	N-CA-CB	-5.01	102.96	111.23
49	6G	125	ASP	CB-CA-C	5.01	117.53	109.41
38	4K	29	LYS	CD-CE-NZ	-5.01	95.87	111.90
37	4G	529	VAL	CA-CB-CG2	-5.00	101.89	110.40
43	5L	37	THR	CA-C-N	-5.00	115.24	122.00
43	5L	37	THR	C-N-CA	-5.00	115.24	122.00
44	5T	149	MET	CB-CG-SD	-5.00	97.68	112.70
37	4F	1342	LEU	CA-CB-CG	-5.00	98.79	116.30
38	4L	29	LYS	CD-CE-NZ	-5.00	95.90	111.90
38	4M	29	LYS	CD-CE-NZ	-5.00	95.89	111.90
38	4N	29	LYS	CD-CE-NZ	-5.00	95.90	111.90

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
37	4G	793	THR	CB

All (491) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0B	94	GLU	Peptide
1	0D	94	GLU	Peptide
1	0F	94	GLU	Peptide
1	0G	94	GLU	Peptide
1	0I	94	GLU	Peptide
1	0K	94	GLU	Peptide
1	0M	94	GLU	Peptide
1	0O	94	GLU	Peptide
1	0Q	94	GLU	Peptide
1	0S	94	GLU	Peptide
1	0U	94	GLU	Peptide
1	0V	94	GLU	Peptide
1	0W	94	GLU	Peptide
1	0Y	94	GLU	Peptide
1	1A	94	GLU	Peptide
1	1C	94	GLU	Peptide
2	1D	230	ALA	Peptide
2	1D	265	GLU	Peptide
2	1D	421	ALA	Peptide

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Mol	Chain	Res	Type	Group
2	1D	60	ASP	Peptide
2	1E	230	ALA	Peptide
2	1E	265	GLU	Peptide
2	1E	421	ALA	Peptide
2	1E	60	ASP	Peptide
2	1F	230	ALA	Peptide
2	1F	425	ALA	Peptide
2	1F	426	LEU	Peptide
2	1F	60	ASP	Peptide
2	1G	230	ALA	Peptide
2	1G	425	ALA	Peptide
2	1G	426	LEU	Peptide
2	1G	60	ASP	Peptide
3	1H	1005	PRO	Peptide
3	1H	622	PRO	Peptide
3	1H	88	SER	Peptide
3	1I	1006	ASP	Peptide
3	1I	622	PRO	Peptide
3	1I	88	SER	Peptide
4	1J	176	THR	Peptide
4	1J	189	GLY	Peptide
4	1J	21	ILE	Peptide
4	1J	239	PRO	Peptide
4	1J	411	VAL	Peptide
4	1J	420	PRO	Peptide
4	1J	422	SER	Peptide
4	1K	176	THR	Peptide
4	1K	189	GLY	Peptide
4	1K	21	ILE	Peptide
4	1K	239	PRO	Peptide
4	1K	411	VAL	Peptide
4	1K	420	PRO	Peptide
4	1K	422	SER	Peptide
5	1L	121	PRO	Peptide
5	1L	162	GLU	Peptide
5	1L	243	GLY	Peptide
5	1L	32	ASP	Peptide
5	1L	358	LYS	Peptide
5	1L	5	GLN	Peptide
5	1L	606	TRP	Peptide
5	1L	95	SER	Peptide
5	1M	121	PRO	Peptide

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Mol	Chain	Res	Type	Group
5	1M	162	GLU	Peptide
5	1M	243	GLY	Peptide
5	1M	32	ASP	Peptide
5	1M	358	LYS	Peptide
5	1M	5	GLN	Peptide
5	1M	606	TRP	Peptide
5	1M	95	SER	Peptide
6	1N	1008	GLY	Peptide
6	1N	2653	ASP	Peptide
7	1O	1191	ARG	Peptide
7	1O	1193	PRO	Peptide
7	1O	1194	ARG	Mainchain
7	1O	136	SER	Peptide
7	1O	2048	GLN	Peptide
7	1O	2724	GLY	Peptide
7	1O	3059	LEU	Peptide
7	1O	3121	LYS	Peptide
8	1P	789	PRO	Peptide
9	1Q	560	CYS	Peptide
9	1Q	659	PRO	Peptide
9	1Q	673	VAL	Peptide
9	1Q	674	VAL	Peptide
9	1Q	717	TYR	Peptide
9	1Q	718	LYS	Peptide
9	1Q	726	LEU	Peptide
9	1Q	727	LEU	Mainchain
9	1Q	732	SER	Peptide
9	1Q	734	SER	Peptide
9	1Q	738	LYS	Peptide
9	1Q	739	VAL	Peptide
9	1Q	760	ARG	Peptide
9	1Q	800	THR	Peptide
9	1Q	836	LEU	Peptide
9	1Q	857	ALA	Peptide
10	1R	236	GLY	Peptide
10	1R	299	ASP	Peptide
10	1R	344	SER	Peptide
10	1R	38	PRO	Peptide
10	1S	329	ARG	Peptide
10	1S	340	ILE	Peptide
10	1S	354	VAL	Peptide
10	1S	358	ALA	Peptide

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Mol	Chain	Res	Type	Group
10	1S	38	PRO	Peptide
10	1S	39	MET	Mainchain
10	1S	390	MET	Peptide
11	1T	1002	ALA	Peptide
11	1T	1113	ALA	Peptide
12	1a	107	THR	Mainchain
12	1e	107	THR	Mainchain
14	2F	104	ASN	Peptide
14	2F	33	LYS	Peptide
14	2G	104	ASN	Peptide
14	2G	33	LYS	Peptide
15	2H	119	UNK	Peptide
15	2H	120	UNK	Peptide
15	2H	121	UNK	Peptide
15	2H	135	UNK	Peptide
15	2H	16	UNK	Peptide
15	2H	188	UNK	Peptide
15	2H	191	UNK	Peptide
15	2H	25	UNK	Peptide
15	2H	61	UNK	Peptide
15	2H	80	UNK	Peptide
16	2I	16	UNK	Peptide
16	2I	25	UNK	Peptide
16	2I	61	UNK	Peptide
16	2I	80	UNK	Peptide
17	2J	23	UNK	Peptide
17	2J	33	UNK	Peptide
17	2J	34	UNK	Peptide
17	2J	35	UNK	Peptide
17	2J	67	UNK	Peptide
17	2J	68	UNK	Peptide
17	2J	70	UNK	Peptide
17	2K	30	UNK	Peptide
17	2K	33	UNK	Peptide
17	2K	35	UNK	Peptide
17	2K	70	UNK	Peptide
18	2L	1	UNK	Peptide
18	2L	2	UNK	Peptide
18	2L	3	UNK	Peptide
18	2L	34	UNK	Peptide
18	2L	4	UNK	Peptide
18	2L	5	UNK	Peptide

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Mol	Chain	Res	Type	Group
18	2L	9	UNK	Peptide
20	2N	27	UNK	Peptide
21	2O	14	UNK	Peptide
21	2O	15	UNK	Peptide
21	2O	5	UNK	Peptide
22	2P	33	UNK	Peptide
22	2P	35	UNK	Peptide
22	2P	40	UNK	Peptide
23	2R	22	UNK	Peptide
24	2T	136	PRO	Peptide
24	2U	113	THR	Peptide
24	2V	136	PRO	Peptide
25	2W	147	UNK	Peptide
25	2W	39	UNK	Peptide
25	2W	84	UNK	Peptide
25	2X	147	UNK	Peptide
25	2X	84	UNK	Peptide
12	2a	107	THR	Mainchain
12	2e	107	THR	Mainchain
30	3F	239	LEU	Peptide
30	3F	248	PRO	Peptide
31	3I	485	ARG	Peptide
32	3J	113	PRO	Peptide
32	3J	193	PRO	Peptide
32	3J	48	PRO	Peptide
32	3K	113	PRO	Peptide
32	3K	193	PRO	Peptide
33	3L	174	VAL	Peptide
33	3L	178	LYS	Peptide
12	3e	107	THR	Mainchain
35	4C	1077	ALA	Peptide
35	4C	283	MET	Peptide
35	4C	295	PRO	Peptide
35	4C	377	ALA	Peptide
35	4C	423	GLY	Peptide
35	4C	781	LEU	Peptide
35	4C	794	PRO	Peptide
35	4C	907	LEU	Peptide
36	4D	220	VAL	Peptide
37	4E	1108	PHE	Sidechain
37	4E	1109	ARG	Peptide
37	4E	1166	LEU	Peptide

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Mol	Chain	Res	Type	Group
37	4E	1688	GLY	Peptide
37	4E	1743	PRO	Peptide
37	4E	574	LEU	Mainchain
37	4E	576	ALA	Peptide,Mainchain
37	4E	578	ASP	Sidechain,Mainchain
37	4E	579	THR	Mainchain
37	4E	582	GLN	Peptide,Mainchain
37	4E	583	GLU	Peptide
37	4E	584	ALA	Mainchain
37	4E	587	ALA	Peptide
37	4E	588	PRO	Peptide,Mainchain
37	4F	1083	ILE	Mainchain
37	4F	1092	LEU	Peptide
37	4F	1093	VAL	Peptide
37	4F	1094	ALA	Mainchain
37	4F	1138	VAL	Peptide,Mainchain
37	4F	1152	VAL	Peptide
37	4F	1166	LEU	Peptide
37	4F	1167	ASP	Mainchain
37	4F	1320	GLY	Peptide
37	4F	1321	THR	Mainchain
37	4F	1323	ILE	Peptide
37	4F	1332	SER	Peptide
37	4F	1335	MET	Peptide
37	4F	1688	GLY	Peptide
37	4F	1783	LEU	Peptide
37	4F	510	HIS	Sidechain
37	4F	663	SER	Peptide
37	4F	972	PHE	Sidechain
37	4F	974	VAL	Peptide
37	4G	1074	GLN	Mainchain
37	4G	1093	VAL	Peptide
37	4G	1094	ALA	Peptide,Mainchain
37	4G	1136	ARG	Mainchain
37	4G	1138	VAL	Peptide
37	4G	1152	VAL	Peptide
37	4G	1166	LEU	Peptide
37	4G	1167	ASP	Mainchain
37	4G	1330	ALA	Peptide
37	4G	1334	GLU	Peptide
37	4G	1336	ASP	Mainchain
37	4G	1688	GLY	Peptide

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Mol	Chain	Res	Type	Group
37	4G	1783	LEU	Peptide
37	4G	431	ALA	Peptide
37	4G	534	HIS	Sidechain
37	4G	663	SER	Peptide
37	4G	670	GLY	Peptide
37	4G	689	ARG	Peptide
37	4G	826	LEU	Peptide
37	4G	854	TYR	Sidechain,Mainchain
37	4G	954	SER	Peptide
37	4G	974	VAL	Peptide
37	4H	1081	HIS	Peptide
37	4H	1084	ARG	Mainchain
37	4H	1091	VAL	Peptide
37	4H	1092	LEU	Peptide
37	4H	1094	ALA	Peptide,Mainchain
37	4H	1138	VAL	Peptide,Mainchain
37	4H	1152	VAL	Peptide
37	4H	1166	LEU	Peptide
37	4H	1167	ASP	Mainchain
37	4H	1320	GLY	Peptide
37	4H	1332	SER	Peptide
37	4H	1333	VAL	Mainchain
37	4H	1335	MET	Peptide
37	4H	1688	GLY	Peptide
37	4H	1783	LEU	Peptide
37	4H	663	SER	Peptide
37	4H	953	PRO	Peptide,Mainchain
37	4H	954	SER	Peptide
37	4H	955	GLY	Peptide
37	4H	972	PHE	Sidechain,Mainchain
37	4H	974	VAL	Peptide
38	4I	26	GLU	Mainchain
38	4I	27	ALA	Peptide
38	4I	29	LYS	Mainchain
38	4I	31	ALA	Peptide
38	4I	34	ALA	Peptide
38	4I	36	VAL	Peptide
38	4I	43	ASN	Peptide
38	4I	67	ALA	Peptide
38	4J	26	GLU	Mainchain
38	4J	27	ALA	Peptide
38	4J	29	LYS	Mainchain

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Mol	Chain	Res	Type	Group
38	4J	31	ALA	Peptide
38	4J	34	ALA	Peptide
38	4J	36	VAL	Peptide
38	4J	43	ASN	Peptide
38	4J	67	ALA	Peptide
38	4K	26	GLU	Mainchain
38	4K	27	ALA	Peptide
38	4K	29	LYS	Mainchain
38	4K	31	ALA	Peptide
38	4K	34	ALA	Peptide
38	4K	36	VAL	Peptide
38	4K	43	ASN	Peptide
38	4K	67	ALA	Peptide
38	4L	26	GLU	Mainchain
38	4L	27	ALA	Peptide
38	4L	29	LYS	Mainchain
38	4L	31	ALA	Peptide
38	4L	34	ALA	Peptide
38	4L	36	VAL	Peptide
38	4L	43	ASN	Peptide
38	4L	67	ALA	Peptide
38	4M	26	GLU	Mainchain
38	4M	27	ALA	Peptide
38	4M	29	LYS	Mainchain
38	4M	31	ALA	Peptide
38	4M	34	ALA	Peptide
38	4M	36	VAL	Peptide
38	4M	43	ASN	Peptide
38	4M	67	ALA	Peptide
38	4N	26	GLU	Mainchain
38	4N	27	ALA	Peptide
38	4N	29	LYS	Mainchain
38	4N	31	ALA	Peptide
38	4N	34	ALA	Peptide
38	4N	36	VAL	Peptide
38	4N	43	ASN	Peptide
38	4N	67	ALA	Peptide
38	4O	18	PRO	Peptide
38	4O	39	HIS	Peptide
38	4O	7	ALA	Peptide
38	4O	8	THR	Peptide
38	4P	39	HIS	Peptide

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Mol	Chain	Res	Type	Group
40	4T	177	LEU	Peptide
40	4T	257	VAL	Peptide
40	4T	374	ALA	Peptide
40	4T	456	LEU	Peptide
40	4T	634	ARG	Peptide
40	4T	648	SER	Peptide
40	4T	649	ASP	Peptide
40	4T	692	ARG	Peptide
40	4U	177	LEU	Peptide
40	4U	257	VAL	Peptide
40	4U	374	ALA	Peptide
40	4U	456	LEU	Peptide
40	4U	634	ARG	Peptide
40	4U	648	SER	Peptide
40	4U	649	ASP	Peptide
40	4U	692	ARG	Peptide
40	4V	177	LEU	Peptide
40	4V	257	VAL	Peptide
40	4V	374	ALA	Peptide
40	4V	456	LEU	Peptide
40	4V	634	ARG	Peptide
40	4V	648	SER	Peptide
40	4V	649	ASP	Peptide
40	4V	692	ARG	Peptide
41	4X	32	ILE	Peptide
41	4Y	32	ILE	Peptide
41	4Z	32	ILE	Peptide
41	5A	116	LEU	Peptide
41	5A	120	TYR	Mainchain
41	5A	140	GLU	Mainchain
41	5A	142	ARG	Peptide
41	5A	164	GLY	Mainchain
41	5A	20	GLU	Peptide
41	5A	38	LYS	Mainchain
41	5B	116	LEU	Peptide
41	5C	116	LEU	Peptide
41	5D	116	LEU	Peptide
42	5H	133	LEU	Peptide,Mainchain
42	5H	134	LEU	Peptide
42	5H	135	ARG	Sidechain,Peptide
42	5H	136	HIS	Peptide,Mainchain
42	5H	137	TYR	Sidechain,Peptide

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Mol	Chain	Res	Type	Group
42	5H	158	MET	Peptide
42	5H	92	THR	Mainchain
42	5H	93	GLU	Mainchain
42	5H	96	ALA	Peptide
43	5I	16	GLU	Peptide
43	5I	164	GLU	Peptide
43	5I	20	HIS	Peptide
43	5I	35	LYS	Peptide
43	5I	38	GLY	Peptide
43	5J	16	GLU	Peptide
43	5J	164	GLU	Peptide
43	5J	20	HIS	Peptide
43	5J	35	LYS	Peptide
43	5J	38	GLY	Peptide
43	5K	16	GLU	Peptide
43	5K	164	GLU	Peptide
43	5K	20	HIS	Peptide
43	5K	35	LYS	Peptide
43	5K	38	GLY	Peptide
43	5L	16	GLU	Peptide
43	5L	164	GLU	Peptide
43	5L	20	HIS	Peptide
43	5L	35	LYS	Peptide
43	5L	38	GLY	Peptide
44	5V	47	PRO	Peptide
45	5W	177	UNK	Peptide
45	5W	86	UNK	Peptide
45	5X	177	UNK	Peptide
45	5X	86	UNK	Peptide
45	5Y	177	UNK	Peptide
45	5Y	86	UNK	Peptide
46	5Z	101	UNK	Peptide
46	5Z	148	UNK	Peptide
12	5e	107	THR	Mainchain
47	6A	290	GLY	Peptide
47	6A	492	ASN	Peptide
47	6A	576	LEU	Peptide
47	6A	74	MET	Peptide
47	6A	75	ASP	Peptide
47	6A	800	SER	Peptide
47	6A	810	LEU	Peptide
47	6A	811	PRO	Peptide

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Mol	Chain	Res	Type	Group
47	6A	875	ASP	Peptide
47	6A	904	PHE	Peptide
47	6A	910	PRO	Peptide
47	6A	984	ILE	Peptide
47	6B	290	GLY	Peptide
47	6B	492	ASN	Peptide
47	6B	576	LEU	Peptide
47	6B	74	MET	Peptide
47	6B	75	ASP	Peptide
47	6B	800	SER	Peptide
47	6B	810	LEU	Peptide
47	6B	811	PRO	Peptide
47	6B	875	ASP	Peptide
47	6B	904	PHE	Peptide
47	6B	910	PRO	Peptide
47	6B	984	ILE	Peptide
3	6D	1010	LEU	Peptide
3	6D	94	ARG	Peptide
48	6E	308	MET	Peptide
48	6E	395	TRP	Peptide
48	6E	61	ARG	Peptide
48	6E	945	PRO	Peptide
48	6E	971	GLY	Peptide
48	6E	972	ASP	Peptide
48	6F	308	MET	Peptide
48	6F	395	TRP	Peptide
48	6F	61	ARG	Peptide
48	6F	945	PRO	Peptide
48	6F	971	GLY	Peptide
48	6F	972	ASP	Peptide
49	6G	313	GLN	Peptide
49	6H	313	GLN	Peptide
49	6I	313	GLN	Peptide
49	6J	313	GLN	Peptide
50	6K	398	LEU	Peptide
50	6K	437	TYR	Peptide
50	6K	458	ASP	Peptide
50	6K	514	GLY	Peptide
50	6K	529	GLU	Peptide
50	6L	398	LEU	Peptide
50	6L	437	TYR	Peptide
50	6L	458	ASP	Peptide

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Mol	Chain	Res	Type	Group
50	6L	514	GLY	Peptide
50	6L	529	GLU	Peptide
51	6M	1246	PRO	Peptide
51	6M	1247	ALA	Peptide
51	6M	1616	LEU	Peptide
51	6M	2022	PRO	Peptide
51	6M	2077	LEU	Peptide
51	6M	2293	ALA	Peptide
51	6N	1246	PRO	Peptide
51	6N	1247	ALA	Peptide
51	6N	1616	LEU	Peptide
51	6N	2022	PRO	Peptide
51	6N	2077	LEU	Peptide
51	6N	2293	ALA	Peptide
52	6O	2	UNK	Peptide
52	6O	46	UNK	Peptide
52	6O	55	UNK	Peptide
52	6O	7	UNK	Peptide
52	6P	2	UNK	Peptide
52	6P	46	UNK	Peptide
52	6P	55	UNK	Peptide
52	6P	7	UNK	Peptide
52	6Q	2	UNK	Peptide
52	6Q	46	UNK	Peptide
52	6Q	55	UNK	Peptide
52	6Q	7	UNK	Peptide
12	6a	107	THR	Mainchain
12	6e	107	THR	Mainchain
12	7a	107	THR	Mainchain
12	7e	107	THR	Mainchain
12	8a	107	THR	Mainchain
12	8e	107	THR	Mainchain
12	9a	107	THR	Mainchain
12	Aa	107	THR	Mainchain
12	Be	107	THR	Mainchain
12	Ce	107	THR	Mainchain
12	Da	107	THR	Mainchain

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0A	3528	0	3398	261	0
1	0B	3528	0	3398	207	0
1	0C	3528	0	3398	160	0
1	0D	3528	0	3398	156	0
1	0E	3528	0	3398	191	0
1	0F	3528	0	3398	181	0
1	0G	3528	0	3398	157	0
1	0H	3528	0	3398	168	0
1	0I	3528	0	3398	166	0
1	0J	3528	0	3398	156	0
1	0K	3524	0	3387	159	0
1	0L	3528	0	3398	152	0
1	0M	3528	0	3398	146	0
1	0N	3528	0	3398	175	0
1	0O	3528	0	3398	149	0
1	0P	3528	0	3398	183	0
1	0Q	3528	0	3398	193	0
1	0R	3526	0	3392	231	0
1	0S	3528	0	3398	150	0
1	0T	3528	0	3398	147	0
1	0U	3528	0	3398	164	0
1	0V	3528	0	3398	168	0
1	0W	3528	0	3398	151	0
1	0X	3528	0	3398	187	0
1	0Y	3528	0	3398	190	0
1	0Z	3528	0	3398	178	0
1	1A	3528	0	3398	177	0
1	1B	3528	0	3398	249	0
1	1C	3524	0	3387	190	0
2	1D	3213	0	2961	142	0
2	1E	3213	0	2961	120	0
2	1F	3292	0	3041	137	0
2	1G	3292	0	3041	105	0
3	1H	5778	0	5643	387	0
3	1I	5778	0	5643	144	0
3	6D	6016	0	6134	304	0
4	1J	2856	0	2628	185	0
4	1K	2856	0	2628	169	0
5	1L	3368	0	2576	140	0
5	1M	3368	0	2576	156	0
6	1N	16109	0	16167	393	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	1O	19593	0	19851	345	0
8	1P	2266	0	2195	104	0
9	1Q	2335	0	1383	28	0
10	1R	2753	0	2738	257	0
10	1S	1984	0	1875	209	0
11	1T	4804	0	2553	4	0
12	1a	3359	0	3249	141	0
12	1c	3379	0	3265	103	0
12	1e	3359	0	3249	148	0
12	1g	3379	0	3265	108	0
12	2a	3359	0	3249	111	0
12	2c	3379	0	3265	127	0
12	2e	3359	0	3249	115	0
12	2g	3379	0	3265	121	0
12	3a	3359	0	3249	146	0
12	3c	3379	0	3262	117	0
12	3e	3359	0	3249	102	0
12	3g	3379	0	3265	130	0
12	4a	3359	0	3249	133	0
12	4c	3379	0	3265	97	0
12	4e	3359	0	3249	105	0
12	4g	3379	0	3265	89	0
12	5a	3359	0	3249	135	0
12	5c	3379	0	3262	134	0
12	5e	3359	0	3249	143	0
12	5g	3379	0	3265	105	0
12	6a	3359	0	3249	135	0
12	6c	3379	0	3263	114	0
12	6e	3359	0	3247	132	0
12	6g	3379	0	3262	112	0
12	7a	3359	0	3249	147	0
12	7c	3379	0	3265	116	0
12	7e	3359	0	3247	171	0
12	7g	3379	0	3265	120	0
12	8a	3359	0	3249	142	0
12	8c	3379	0	3265	106	0
12	8e	3359	0	3249	127	0
12	8g	3379	0	3265	126	0
12	9a	3359	0	3249	168	0
12	9c	3379	0	3265	113	0
12	9e	3359	0	3247	143	0
12	9g	3379	0	3265	106	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	Aa	3359	0	3249	188	0
12	Ac	3379	0	3265	132	0
12	Ae	3359	0	3247	183	0
12	Ag	3379	0	3265	116	0
12	Ba	3359	0	3249	172	0
12	Bc	3379	0	3265	124	0
12	Be	3359	0	3249	203	0
12	Bg	3379	0	3265	154	0
12	Ca	3359	0	3249	136	0
12	Cc	3379	0	3262	143	0
12	Ce	3359	0	3249	156	0
12	Cg	3379	0	3265	127	0
12	Da	3359	0	3249	134	0
12	Dc	3379	0	3265	95	0
12	De	3359	0	3249	160	0
12	Dg	3379	0	3265	123	0
13	1b	3339	0	3277	142	0
13	1d	3339	0	3277	104	0
13	1f	3339	0	3277	180	0
13	1h	3339	0	3277	101	0
13	2b	3339	0	3277	130	0
13	2d	3339	0	3277	104	0
13	2f	3339	0	3277	121	0
13	2h	3339	0	3277	110	0
13	3b	3339	0	3277	122	0
13	3d	3339	0	3277	115	0
13	3f	3339	0	3277	110	0
13	3h	3339	0	3277	133	0
13	4b	3339	0	3277	107	0
13	4d	3339	0	3277	97	0
13	4f	3339	0	3277	94	0
13	4h	3339	0	3277	108	0
13	5b	3339	0	3277	132	0
13	5d	3339	0	3277	115	0
13	5f	3339	0	3277	113	0
13	5h	3339	0	3277	95	0
13	6b	3339	0	3277	123	0
13	6d	3339	0	3277	124	0
13	6f	3339	0	3277	152	0
13	6h	3339	0	3277	112	0
13	7b	3339	0	3277	104	0
13	7d	3339	0	3277	143	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	7f	3339	0	3277	120	0
13	7h	3339	0	3277	124	0
13	8b	3339	0	3277	107	0
13	8d	3339	0	3277	100	0
13	8f	3339	0	3277	152	0
13	8h	3339	0	3277	113	0
13	9b	3339	0	3277	112	0
13	9d	3339	0	3277	119	0
13	9f	3339	0	3277	107	0
13	9h	3339	0	3277	112	0
13	Ab	3339	0	3277	159	0
13	Ad	3339	0	3277	126	0
13	Af	3339	0	3277	149	0
13	Ah	3339	0	3277	124	0
13	Bb	3339	0	3277	163	0
13	Bd	3339	0	3277	118	0
13	Bf	3339	0	3277	180	0
13	Bh	3339	0	3277	100	0
13	Cb	3339	0	3277	144	0
13	Cd	3339	0	3277	115	0
13	Cf	3339	0	3277	149	0
13	Ch	3339	0	3277	120	0
13	Db	3339	0	3277	140	0
13	Dd	3339	0	3277	116	0
13	Df	3339	0	3277	158	0
13	Dh	3339	0	3277	120	0
14	2F	1228	0	1191	104	0
14	2G	1228	0	1191	84	0
15	2H	980	0	215	34	0
16	2I	540	0	116	14	0
17	2J	500	0	104	19	0
17	2K	500	0	109	12	0
18	2L	270	0	59	8	0
19	2M	90	0	21	1	0
20	2N	260	0	60	10	0
21	2O	235	0	52	8	0
22	2P	530	0	118	21	0
23	2Q	550	0	115	20	0
23	2R	550	0	119	15	0
24	2S	522	0	253	7	0
24	2T	868	0	822	110	0
24	2U	882	0	841	92	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	2V	868	0	822	83	0
25	2W	835	0	172	10	0
25	2X	835	0	174	9	0
26	2Y	325	0	67	1	0
26	2Z	325	0	67	1	0
27	3A	180	0	38	0	0
27	3B	180	0	38	0	0
28	3C	480	0	479	37	0
29	3E	671	0	603	51	0
30	3F	3386	0	3295	216	0
30	3G	1904	0	1949	130	0
31	3H	1958	0	1625	68	0
31	3I	3118	0	3149	141	0
32	3J	2792	0	2798	179	0
32	3K	2767	0	2778	115	0
33	3L	1572	0	1588	94	0
34	3M	2989	0	2857	199	0
34	3N	3040	0	2941	147	0
34	3O	2775	0	2688	207	0
34	3P	2795	0	2702	204	0
34	3Q	2775	0	2688	159	0
34	3R	2814	0	2718	163	0
34	3S	2989	0	2857	164	0
34	3T	3040	0	2941	204	0
34	3U	2795	0	2702	164	0
34	3V	3192	0	3096	143	0
34	3W	3198	0	3099	150	0
34	3X	2814	0	2718	140	0
34	3Y	2814	0	2718	120	0
34	3Z	2814	0	2718	128	0
34	4A	3192	0	3096	128	0
34	4B	3198	0	3099	142	0
35	4C	4846	0	4828	314	0
36	4D	2372	0	2332	152	0
37	4E	7227	0	7208	1038	0
37	4F	7056	0	7016	1088	0
37	4G	7056	0	7018	1073	0
37	4H	7056	0	7019	993	0
38	4I	491	0	510	263	0
38	4J	491	0	510	192	0
38	4K	491	0	510	232	0
38	4L	491	0	509	552	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
38	4M	491	0	509	587	0
38	4N	491	0	510	646	0
38	4O	626	0	632	79	0
38	4P	424	0	429	38	0
39	4Q	1778	0	1814	115	0
39	4R	1778	0	1814	79	0
39	4S	1778	0	1814	133	0
40	4T	4494	0	4484	186	0
40	4U	4494	0	4484	186	0
40	4V	4494	0	4484	180	0
41	4W	597	0	286	10	0
41	4X	597	0	286	15	0
41	4Y	597	0	286	20	0
41	4Z	597	0	286	19	0
41	5A	592	0	282	151	0
41	5B	592	0	284	13	0
41	5C	592	0	284	13	0
41	5D	592	0	284	13	0
42	5E	1562	0	1410	64	0
42	5F	1562	0	1410	53	0
42	5G	1562	0	1410	50	0
42	5H	1307	0	1255	803	0
43	5I	1594	0	1501	184	0
43	5J	1594	0	1501	174	0
43	5K	1594	0	1501	211	0
43	5L	1594	0	1498	1336	0
44	5M	699	0	322	5	0
44	5N	699	0	322	7	0
44	5O	699	0	322	7	0
44	5P	1153	0	1085	47	0
44	5Q	1153	0	1085	43	0
44	5R	1153	0	1085	45	0
44	5S	1144	0	1079	48	0
44	5T	1144	0	1079	50	0
44	5U	1144	0	1079	65	0
44	5V	1166	0	1094	37	0
45	5W	685	0	153	2	0
45	5X	685	0	153	2	0
45	5Y	685	0	153	2	0
46	5Z	978	0	442	13	0
47	6A	11821	0	11632	627	0
47	6B	11821	0	11632	672	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	6E	6892	0	6896	290	0
48	6F	6892	0	6896	302	0
49	6G	3606	0	3611	194	0
49	6H	3606	0	3611	195	0
49	6I	3606	0	3611	183	0
49	6J	3606	0	3611	188	0
50	6K	4731	0	4753	223	0
50	6L	4731	0	4753	227	0
51	6M	8050	0	8003	291	0
51	6N	8050	0	8003	285	0
52	6O	444	0	103	3	0
52	6P	444	0	103	3	0
52	6Q	444	0	103	7	0
53	1a	28	0	12	2	0
53	1c	28	0	12	0	0
53	1e	28	0	12	3	0
53	1g	28	0	12	0	0
53	2a	28	0	12	1	0
53	2c	28	0	12	1	0
53	2e	28	0	12	0	0
53	2g	28	0	12	0	0
53	3a	28	0	12	1	0
53	3c	28	0	12	0	0
53	3e	28	0	12	1	0
53	3g	28	0	12	0	0
53	4a	28	0	12	1	0
53	4c	28	0	12	0	0
53	4e	28	0	12	0	0
53	4g	28	0	12	0	0
53	5a	28	0	12	0	0
53	5c	28	0	12	0	0
53	5e	28	0	12	0	0
53	5g	28	0	12	0	0
53	6a	28	0	12	0	0
53	6c	28	0	12	0	0
53	6e	28	0	12	1	0
53	6g	28	0	12	0	0
53	7a	28	0	12	1	0
53	7c	28	0	12	0	0
53	7e	28	0	12	2	0
53	7g	28	0	12	0	0
53	8a	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
53	8c	28	0	12	1	0
53	8e	28	0	12	0	0
53	8g	28	0	12	0	0
53	9a	28	0	12	0	0
53	9c	28	0	12	0	0
53	9e	28	0	12	0	0
53	9g	28	0	12	0	0
53	Aa	28	0	12	0	0
53	Ac	28	0	12	0	0
53	Ae	28	0	12	0	0
53	Ag	28	0	12	0	0
53	Ba	28	0	12	1	0
53	Bc	28	0	12	0	0
53	Be	28	0	12	1	0
53	Bg	28	0	12	1	0
53	Ca	28	0	12	0	0
53	Cc	28	0	12	1	0
53	Ce	28	0	12	0	0
53	Cg	28	0	12	0	0
53	Da	28	0	12	0	0
53	Dc	28	0	12	0	0
53	De	28	0	12	0	0
53	Dg	28	0	12	1	0
54	1b	32	0	12	5	0
54	1d	32	0	12	4	0
54	1f	32	0	12	4	0
54	1h	32	0	12	3	0
54	2b	32	0	12	7	0
54	2d	32	0	12	6	0
54	2f	32	0	12	5	0
54	2h	32	0	12	4	0
54	3c	32	0	12	5	0
54	3d	32	0	12	3	0
54	3f	32	0	12	4	0
54	3h	32	0	12	3	0
54	4b	32	0	12	4	0
54	4d	32	0	12	3	0
54	4f	32	0	12	5	0
54	4h	32	0	12	3	0
54	5c	32	0	12	4	0
54	5d	32	0	12	3	0
54	5f	32	0	12	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
54	5h	32	0	12	5	0
54	6c	32	0	12	6	0
54	6e	32	0	12	4	0
54	6g	32	0	12	5	0
54	6h	32	0	12	4	0
54	7b	32	0	12	5	0
54	7e	32	0	12	5	0
54	7f	32	0	12	5	0
54	7h	32	0	12	4	0
54	8b	32	0	12	4	0
54	8d	32	0	12	4	0
54	8f	32	0	12	5	0
54	8h	32	0	12	5	0
54	9b	32	0	12	5	0
54	9e	32	0	12	4	0
54	9f	32	0	12	7	0
54	9h	32	0	12	3	0
54	Ab	32	0	12	6	0
54	Ae	32	0	12	4	0
54	Af	32	0	12	7	0
54	Ah	32	0	12	4	0
54	Bb	32	0	12	6	0
54	Bd	32	0	12	5	0
54	Bf	32	0	12	6	0
54	Bh	32	0	12	5	0
54	Cc	32	0	12	6	0
54	Cd	32	0	12	5	0
54	Cf	32	0	12	6	0
54	Ch	32	0	12	5	0
54	Db	32	0	12	5	0
54	Dd	32	0	12	5	0
54	Df	32	0	12	5	0
54	Dh	32	0	12	4	0
All	All	793756	0	755740	34194	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 22.

All (34194) 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)
37:4H:972:PHE:CB	37:4H:972:PHE:CG	1.75	1.65
37:4H:1091:VAL:CG2	37:4H:1091:VAL:CB	1.75	1.63
37:4F:1324:THR:CG2	37:4F:1324:THR:CB	1.77	1.62
37:4G:1323:ILE:CB	37:4G:1323:ILE:CA	1.79	1.60
37:4E:579:THR:CG2	37:4E:579:THR:CB	1.77	1.59
37:4F:1083:ILE:CG2	37:4F:1083:ILE:CB	1.76	1.59
37:4G:1082:LEU:CD2	37:4G:1082:LEU:CG	1.80	1.59
37:4E:589:PRO:CB	43:5L:20:HIS:H	1.04	1.58
42:5H:135:ARG:CB	43:5L:53:ASP:H	1.00	1.58
37:4G:854:TYR:CD1	37:4G:854:TYR:CE1	1.85	1.57
42:5H:135:ARG:CA	42:5H:135:ARG:C	1.74	1.57
37:4F:1082:LEU:CA	37:4F:1082:LEU:CB	1.79	1.57
37:4F:1093:VAL:CA	38:4N:36:VAL:HG22	1.34	1.57
37:4F:1323:ILE:HA	38:4N:26:GLU:CB	1.30	1.57
37:4H:1322:ARG:CG	37:4H:1322:ARG:CD	1.83	1.57
37:4H:1074:GLN:CB	37:4H:1074:GLN:CG	1.79	1.57
37:4E:580:GLU:CA	37:4E:580:GLU:N	1.68	1.56
37:4G:1083:ILE:CA	37:4G:1083:ILE:N	1.69	1.56
42:5H:139:LEU:HG	42:5H:139:LEU:CB	1.11	1.56
42:5H:49:ILE:CG2	42:5H:49:ILE:CB	1.80	1.55
37:4E:581:LEU:CB	37:4E:581:LEU:CA	1.80	1.55
38:4M:26:GLU:CG	38:4M:26:GLU:CD	1.78	1.55
37:4G:1083:ILE:CA	37:4G:1083:ILE:C	1.80	1.54
38:4I:26:GLU:CD	38:4I:26:GLU:CG	1.78	1.54
38:4N:26:GLU:CG	38:4N:26:GLU:CD	1.78	1.54
42:5H:138:ARG:CD	42:5H:138:ARG:CG	1.81	1.54
37:4G:1093:VAL:CG2	37:4G:1093:VAL:CB	1.83	1.54
37:4E:581:LEU:CB	37:4E:581:LEU:CG	1.84	1.53
37:4E:590:LYS:CA	37:4E:590:LYS:N	1.70	1.53
37:4F:1093:VAL:HA	38:4N:36:VAL:CG2	1.37	1.53
38:4J:26:GLU:CD	38:4J:26:GLU:CG	1.78	1.53
37:4F:1082:LEU:CA	37:4F:1082:LEU:C	1.80	1.52
37:4F:1333:VAL:CA	38:4N:27:ALA:HA	1.06	1.52
43:5K:168:GLU:CG	43:5K:168:GLU:CD	1.81	1.52
38:4K:26:GLU:CD	38:4K:26:GLU:CG	1.78	1.51
37:4E:577:LEU:C	37:4E:578:ASP:N	1.69	1.51
43:5L:168:GLU:CD	43:5L:168:GLU:CG	1.81	1.51
37:4G:691:MET:CB	37:4G:691:MET:CG	1.81	1.50
42:5H:156:GLU:CB	42:5H:156:GLU:CG	1.85	1.50
42:5H:136:HIS:CA	42:5H:136:HIS:N	1.74	1.50
43:5I:168:GLU:CG	43:5I:168:GLU:CD	1.81	1.50
43:5J:168:GLU:CG	43:5J:168:GLU:CD	1.81	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:583:GLU:CA	37:4E:583:GLU:C	1.79	1.50
37:4E:578:ASP:N	37:4E:578:ASP:CA	1.69	1.49
38:4L:26:GLU:CG	38:4L:26:GLU:CD	1.78	1.49
42:5H:138:ARG:CG	42:5H:138:ARG:CB	1.87	1.49
37:4F:1082:LEU:C	37:4F:1083:ILE:N	1.69	1.49
37:4F:1322:ARG:C	37:4F:1323:ILE:N	1.71	1.49
37:4F:1333:VAL:C	37:4F:1334:GLU:N	1.71	1.48
37:4G:1323:ILE:CG1	37:4G:1323:ILE:CD1	1.91	1.48
37:4H:1333:VAL:CB	37:4H:1333:VAL:CG2	1.88	1.48
37:4E:581:LEU:HD23	43:5L:30:ARG:C	1.37	1.48
37:4E:587:ALA:CA	37:4E:587:ALA:N	1.77	1.48
37:4H:1084:ARG:CD	37:4H:1084:ARG:CG	1.90	1.48
37:4F:1333:VAL:C	38:4N:30:ALA:HB3	1.39	1.47
37:4F:1333:VAL:CA	38:4N:27:ALA:CA	1.91	1.47
37:4E:581:LEU:CD1	43:5L:33:LEU:H	1.25	1.47
37:4F:1323:ILE:CA	37:4F:1323:ILE:C	1.85	1.46
37:4F:1323:ILE:N	37:4F:1323:ILE:CA	1.76	1.46
42:5H:135:ARG:HG2	43:5L:53:ASP:C	1.36	1.46
37:4E:583:GLU:HA	43:5L:37:THR:N	1.25	1.45
42:5H:135:ARG:CG	43:5L:52:LEU:C	1.89	1.45
37:4H:1091:VAL:CB	37:4H:1091:VAL:CG1	1.94	1.44
37:4F:1324:THR:N	38:4N:26:GLU:HG3	1.21	1.43
37:4H:1091:VAL:HB	38:4M:34:ALA:CA	1.46	1.43
37:4H:1091:VAL:CB	37:4H:1091:VAL:CA	1.95	1.43
38:4K:76:PRO:HD2	38:4N:53:LEU:CD2	1.44	1.43
43:5I:44:THR:C	43:5I:45:ASN:N	1.77	1.43
42:5H:137:TYR:CB	43:5L:49:ALA:H	1.30	1.43
37:4G:1335:MET:SD	37:4G:1335:MET:CG	2.07	1.42
37:4F:1322:ARG:CB	37:4F:1322:ARG:CG	1.97	1.42
42:5H:136:HIS:CA	43:5L:51:HIS:N	1.81	1.42
43:5J:44:THR:C	43:5J:45:ASN:N	1.77	1.42
37:4E:577:LEU:HA	43:5L:42:TYR:CE1	1.53	1.42
37:4E:583:GLU:CB	37:4E:583:GLU:CG	1.96	1.42
37:4F:1334:GLU:N	37:4F:1334:GLU:CA	1.80	1.42
37:4F:1335:MET:CB	37:4F:1335:MET:CG	1.98	1.42
42:5H:137:TYR:CG	43:5L:47:LYS:N	1.86	1.42
37:4G:1094:ALA:H	38:4L:36:VAL:CG1	1.32	1.42
37:4F:1323:ILE:CA	38:4N:26:GLU:HB3	1.47	1.41
41:5A:120:TYR:CA	43:5L:168:GLU:CG	1.97	1.41
42:5H:135:ARG:CB	43:5L:53:ASP:N	1.75	1.41
42:5H:137:TYR:HB3	43:5L:49:ALA:N	1.16	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:589:PRO:HB2	43:5L:20:HIS:N	1.35	1.40
42:5H:91:TYR:C	43:5L:45:ASN:HD22	1.28	1.40
37:4E:584:ALA:N	43:5L:36:TYR:H	0.94	1.40
37:4G:1083:ILE:CD1	37:4G:1083:ILE:CG1	1.96	1.40
42:5H:135:ARG:HG2	43:5L:54:LEU:N	1.32	1.40
37:4F:1333:VAL:CA	38:4N:30:ALA:HB2	1.50	1.40
43:5K:44:THR:C	43:5K:45:ASN:N	1.76	1.40
43:5L:44:THR:C	43:5L:45:ASN:N	1.77	1.40
37:4F:1083:ILE:N	37:4F:1083:ILE:CA	1.85	1.39
42:5H:135:ARG:CG	43:5L:53:ASP:N	1.86	1.39
42:5H:137:TYR:CB	42:5H:137:TYR:CA	2.00	1.39
37:4H:1091:VAL:CA	37:4H:1091:VAL:C	1.96	1.38
37:4H:1136:ARG:HG3	38:4M:33:LYS:NZ	1.37	1.38
42:5H:96:ALA:N	43:5L:44:THR:HA	1.23	1.38
37:4F:1350:ILE:HG21	38:4N:34:ALA:CB	1.53	1.38
37:4E:581:LEU:HB2	43:5L:31:ASP:C	1.45	1.38
37:4G:1082:LEU:CD2	37:4G:1082:LEU:CD1	2.02	1.37
37:4H:1091:VAL:O	38:4M:37:GLY:N	1.57	1.37
37:4F:1074:GLN:NE2	38:4N:41:LYS:O	1.56	1.37
41:5A:120:TYR:C	43:5L:168:GLU:CG	1.98	1.37
37:4F:1333:VAL:C	38:4N:30:ALA:CB	1.97	1.36
37:4H:1323:ILE:HA	38:4M:25:PRO:CG	1.54	1.36
42:5H:95:GLU:H	43:5L:45:ASN:N	1.21	1.36
42:5H:96:ALA:H	43:5L:44:THR:CA	1.37	1.36
37:4G:1084:ARG:CB	37:4G:1084:ARG:CG	2.04	1.35
37:4F:1321:THR:HA	38:4N:29:LYS:NZ	1.36	1.35
37:4E:584:ALA:HB2	43:5L:36:TYR:CD2	1.62	1.35
42:5H:137:TYR:H	43:5L:50:ILE:N	1.22	1.35
37:4E:581:LEU:HD13	43:5L:29:GLY:O	1.25	1.35
41:5A:120:TYR:C	43:5L:168:GLU:CD	1.92	1.34
37:4F:1333:VAL:CA	37:4F:1333:VAL:C	1.99	1.34
42:5H:137:TYR:CB	43:5L:46:PRO:C	1.98	1.34
37:4G:1074:GLN:OE1	38:4L:42:ILE:HG13	1.20	1.34
37:4F:1083:ILE:N	38:4N:38:VAL:H	1.27	1.33
41:5A:120:TYR:C	43:5L:168:GLU:HG2	1.49	1.32
37:4E:587:ALA:CA	43:5L:18:ILE:HG12	1.56	1.32
37:4G:1082:LEU:CD1	38:4L:39:HIS:H	1.42	1.32
37:4E:581:LEU:CA	43:5L:35:LYS:H	1.34	1.32
37:4E:590:LYS:N	43:5L:20:HIS:HA	1.44	1.32
37:4F:1341:ILE:HG13	38:4N:30:ALA:O	1.28	1.32
37:4F:968:VAL:O	37:4F:1075:VAL:HA	1.26	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:5A:120:TYR:CA	43:5L:168:GLU:HG2	1.52	1.31
37:4E:584:ALA:N	43:5L:36:TYR:N	1.77	1.31
37:4F:1333:VAL:N	38:4N:27:ALA:HB2	1.43	1.31
42:5H:90:ALA:O	43:5L:45:ASN:ND2	1.63	1.31
42:5H:137:TYR:N	43:5L:50:ILE:H	1.24	1.31
42:5H:139:LEU:CB	42:5H:139:LEU:CG	2.05	1.31
42:5H:137:TYR:CB	43:5L:47:LYS:C	2.03	1.31
37:4F:1333:VAL:CA	38:4N:30:ALA:CB	2.07	1.31
37:4G:1093:VAL:CG2	37:4G:1093:VAL:CG1	2.09	1.31
42:5H:135:ARG:NH1	43:5L:33:LEU:HD21	1.44	1.30
37:4E:583:GLU:N	43:5L:34:ALA:O	1.61	1.30
37:4E:590:LYS:HA	43:5L:21:PRO:CD	1.61	1.30
42:5H:137:TYR:C	43:5L:47:LYS:HA	1.57	1.29
37:4H:1324:THR:HB	38:4M:24:THR:N	1.48	1.29
41:5A:120:TYR:CA	41:5A:120:TYR:C	2.04	1.29
42:5H:92:THR:O	43:5L:44:THR:N	1.64	1.29
37:4F:1082:LEU:HD11	38:4N:43:ASN:ND2	1.48	1.29
37:4F:1082:LEU:C	38:4N:38:VAL:HB	1.55	1.29
37:4F:1083:ILE:O	38:4N:38:VAL:CA	1.81	1.29
37:4G:1082:LEU:HD13	38:4L:39:HIS:N	1.47	1.29
42:5H:56:TYR:CE2	43:5L:141:LEU:HD22	1.68	1.29
37:4F:1322:ARG:HB3	38:4N:25:PRO:CB	1.62	1.29
37:4E:583:GLU:HA	43:5L:36:TYR:C	1.57	1.28
37:4H:1084:ARG:CG	37:4H:1084:ARG:CB	2.09	1.28
37:4H:952:ASP:O	37:4H:954:SER:N	1.64	1.28
37:4F:1333:VAL:HA	38:4N:27:ALA:CA	1.53	1.28
38:4I:28:VAL:CG2	42:5E:100:GLY:HA2	1.64	1.28
37:4F:1324:THR:N	38:4N:26:GLU:CG	1.97	1.28
37:4H:1084:ARG:HD3	38:4M:41:LYS:CE	1.62	1.28
37:4E:581:LEU:CB	43:5L:34:ALA:N	1.95	1.28
47:6B:286:ARG:O	3:6D:197:SER:HA	1.33	1.28
37:4F:1082:LEU:HB2	38:4N:38:VAL:C	1.58	1.27
37:4G:1333:VAL:CG2	38:4L:27:ALA:H	1.44	1.27
37:4F:1082:LEU:CB	37:4F:1082:LEU:CG	2.11	1.27
37:4H:972:PHE:CE1	38:4M:41:LYS:CG	2.16	1.27
42:5H:91:TYR:C	43:5L:41:ASP:O	1.76	1.27
37:4F:1333:VAL:C	38:4N:27:ALA:O	1.77	1.27
37:4E:589:PRO:CB	43:5L:20:HIS:N	1.87	1.27
37:4F:969:LEU:HA	37:4F:1074:GLN:O	1.13	1.26
42:5H:139:LEU:CG	42:5H:139:LEU:CD2	2.13	1.26
37:4E:581:LEU:C	43:5L:33:LEU:C	1.99	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1082:LEU:CD2	37:4G:1082:LEU:HD11	1.60	1.26
37:4E:577:LEU:HA	43:5L:42:TYR:CD1	1.68	1.26
37:4E:583:GLU:C	43:5L:36:TYR:H	1.43	1.26
37:4F:1341:ILE:HB	38:4N:30:ALA:CB	1.64	1.26
37:4E:583:GLU:C	43:5L:36:TYR:N	1.94	1.26
37:4H:1091:VAL:HB	38:4M:34:ALA:N	1.51	1.26
37:4E:588:PRO:HA	43:5L:17:SER:O	1.11	1.25
37:4G:1094:ALA:N	38:4L:36:VAL:HG13	1.48	1.25
37:4F:1082:LEU:CB	38:4N:39:HIS:HA	1.64	1.25
13:3d:423:GLU:OE2	39:4S:210:LEU:HB3	1.32	1.25
37:4E:581:LEU:HB3	43:5L:34:ALA:N	1.52	1.25
37:4F:959:LEU:O	37:4F:970:SER:HA	1.37	1.25
37:4H:1137:ALA:C	38:4M:33:LYS:HG3	1.61	1.25
42:5H:139:LEU:CG	43:5L:146:TYR:CD2	2.20	1.25
37:4G:1083:ILE:HA	38:4L:35:ALA:CA	1.66	1.24
37:4H:1322:ARG:O	38:4M:25:PRO:CB	1.85	1.24
41:5A:138:TRP:HA	41:5A:142:ARG:O	1.36	1.24
42:5H:84:THR:HB	42:5H:94:CYS:SG	1.77	1.24
42:5H:135:ARG:HB3	43:5L:50:ILE:C	1.61	1.24
37:4E:581:LEU:HD12	43:5L:33:LEU:N	1.47	1.24
37:4G:1335:MET:SD	38:4L:28:VAL:O	1.96	1.24
38:4K:49:ILE:HG22	38:4N:72:ARG:NH2	1.52	1.24
37:4G:1335:MET:HB2	37:4G:1338:PHE:N	1.50	1.24
42:5H:94:CYS:N	43:5L:44:THR:O	1.68	1.23
42:5H:135:ARG:CG	43:5L:52:LEU:O	1.83	1.23
42:5H:135:ARG:CG	43:5L:53:ASP:CA	2.14	1.23
37:4E:581:LEU:N	43:5L:35:LYS:H	1.36	1.23
37:4G:1323:ILE:CA	37:4G:1323:ILE:HB	1.49	1.23
37:4F:1333:VAL:O	38:4N:30:ALA:HB3	1.33	1.23
37:4G:1082:LEU:O	38:4L:35:ALA:HB1	1.07	1.23
37:4G:1335:MET:CG	38:4L:32:GLU:HB2	1.68	1.23
37:4E:579:THR:O	43:5L:35:LYS:HG2	1.09	1.23
37:4E:582:GLN:N	43:5L:33:LEU:C	1.97	1.22
37:4E:585:VAL:CG1	43:5L:37:THR:HG22	1.69	1.22
37:4H:1333:VAL:O	37:4H:1340:PRO:HA	1.31	1.22
42:5H:137:TYR:CD1	43:5L:47:LYS:N	2.00	1.22
37:4F:1083:ILE:O	38:4N:38:VAL:HA	1.07	1.22
37:4G:1082:LEU:HD13	38:4L:39:HIS:CB	1.70	1.22
37:4G:1093:VAL:HG22	37:4G:1094:ALA:CA	1.68	1.22
42:5H:158:MET:CA	43:5L:158:HIS:HA	1.68	1.22
37:4F:1082:LEU:CG	38:4N:39:HIS:HA	1.69	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:671:LEU:CD2	38:4I:40:LYS:HA	1.67	1.22
37:4G:1074:GLN:HA	38:4L:41:LYS:NZ	1.54	1.22
37:4F:1083:ILE:N	38:4N:38:VAL:N	1.88	1.21
37:4F:1084:ARG:N	38:4N:37:GLY:CA	2.02	1.21
37:4G:1323:ILE:CA	38:4L:26:GLU:HG3	1.70	1.21
37:4H:1074:GLN:CB	38:4M:38:VAL:HG11	1.70	1.21
37:4F:510:HIS:NE2	38:4N:70:LYS:HE2	1.54	1.21
37:4F:540:VAL:HG12	38:4N:72:ARG:NH1	1.53	1.21
37:4F:969:LEU:CA	37:4F:1074:GLN:O	1.87	1.21
37:4F:1083:ILE:CA	38:4N:38:VAL:N	2.02	1.21
37:4G:854:TYR:CD2	37:4G:854:TYR:CE2	2.29	1.21
37:4H:952:ASP:C	37:4H:954:SER:H	1.40	1.21
42:5H:143:VAL:HG23	43:5L:147:THR:N	1.56	1.21
37:4E:582:GLN:N	43:5L:33:LEU:O	1.74	1.21
38:4K:76:PRO:CD	38:4N:53:LEU:HD21	1.69	1.21
30:3F:372:GLU:OE2	13:8f:390:ARG:NH1	1.72	1.20
37:4G:1093:VAL:O	37:4G:1135:PHE:HA	1.36	1.20
37:4G:854:TYR:CE2	38:4L:82:TYR:HE2	1.59	1.20
37:4G:1083:ILE:CA	38:4L:35:ALA:HA	1.70	1.20
42:5H:135:ARG:CG	43:5L:53:ASP:C	2.12	1.20
37:4E:584:ALA:CB	43:5L:36:TYR:HD2	1.53	1.20
37:4G:1082:LEU:CG	38:4L:36:VAL:HB	1.70	1.19
37:4G:1335:MET:N	37:4G:1335:MET:HE2	1.54	1.19
42:5H:137:TYR:CA	43:5L:47:LYS:O	1.91	1.19
37:4G:1082:LEU:HD13	38:4L:39:HIS:CA	1.72	1.19
37:4H:1341:ILE:HG12	38:4M:31:ALA:HB3	1.22	1.19
37:4G:969:LEU:HA	37:4G:1074:GLN:O	1.43	1.19
37:4H:1323:ILE:HB	38:4M:26:GLU:CD	1.67	1.19
37:4F:1074:GLN:HA	38:4N:41:LYS:CD	1.73	1.19
37:4G:1335:MET:H	37:4G:1335:MET:CE	1.54	1.19
38:4J:85:LEU:HD23	38:4M:77:VAL:HG13	1.25	1.19
37:4E:586:PHE:O	43:5L:18:ILE:HD13	1.02	1.18
42:5H:91:TYR:CZ	43:5L:42:TYR:HB3	1.79	1.18
42:5H:136:HIS:H	43:5L:50:ILE:N	1.13	1.18
37:4E:581:LEU:HD23	43:5L:30:ARG:O	1.43	1.18
42:5H:136:HIS:H	43:5L:49:ALA:C	1.49	1.18
42:5H:139:LEU:CG	43:5L:146:TYR:HD2	1.55	1.18
41:5A:142:ARG:HA	43:5L:166:ALA:O	1.40	1.18
37:4E:589:PRO:HD3	43:5L:17:SER:HA	1.24	1.18
37:4F:967:SER:HA	37:4F:1076:THR:O	1.41	1.18
37:4G:1093:VAL:HG13	37:4G:1094:ALA:CA	1.72	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:972:PHE:CD1	38:4M:41:LYS:HG2	1.79	1.18
41:5A:120:TYR:C	43:5L:168:GLU:OE1	1.86	1.18
37:4F:1082:LEU:CG	38:4N:39:HIS:CD2	2.26	1.17
37:4H:953:PRO:O	38:4M:48:PRO:HD3	1.43	1.17
42:5H:94:CYS:CA	43:5L:44:THR:O	1.90	1.17
3:1H:197:SER:HA	47:6A:286:ARG:O	1.40	1.17
37:4E:585:VAL:HG13	43:5L:37:THR:CG2	1.74	1.17
42:5H:158:MET:CB	42:5H:158:MET:CG	2.22	1.17
37:4F:1333:VAL:C	38:4N:30:ALA:CA	2.17	1.17
37:4H:972:PHE:CE1	38:4M:41:LYS:HG3	1.76	1.17
42:5H:158:MET:C	43:5L:158:HIS:HD2	1.52	1.17
37:4E:581:LEU:CD1	43:5L:33:LEU:HB3	1.75	1.17
37:4F:1341:ILE:CB	38:4N:30:ALA:HB1	1.73	1.17
37:4H:1332:SER:O	38:4M:24:THR:HA	1.44	1.17
38:4I:28:VAL:HG21	42:5E:100:GLY:CA	1.75	1.17
42:5H:138:ARG:N	43:5L:47:LYS:O	1.78	1.17
42:5H:137:TYR:CA	43:5L:47:LYS:HA	1.73	1.16
37:4F:1323:ILE:C	38:4N:26:GLU:CD	2.14	1.16
37:4G:1082:LEU:CD1	38:4L:39:HIS:N	2.03	1.16
37:4E:582:GLN:C	43:5L:38:GLY:H	1.54	1.16
37:4F:584:ALA:HA	43:5K:29:GLY:HA3	1.20	1.16
37:4F:1321:THR:CA	38:4N:29:LYS:NZ	2.07	1.16
37:4G:1082:LEU:O	38:4L:35:ALA:CB	1.92	1.16
37:4H:1091:VAL:CA	38:4M:34:ALA:HA	1.75	1.16
42:5H:137:TYR:CA	43:5L:47:LYS:CA	2.24	1.16
42:5H:139:LEU:HA	43:5L:146:TYR:CG	1.80	1.16
37:4E:590:LYS:H	43:5L:19:ARG:C	1.52	1.16
42:5H:93:GLU:H	43:5L:45:ASN:ND2	1.41	1.16
37:4G:1334:GLU:N	38:4L:24:THR:O	1.77	1.15
37:4F:935:ARG:NH2	38:4K:72:ARG:O	1.79	1.15
42:5H:139:LEU:CD2	42:5H:139:LEU:HD11	1.76	1.15
42:5H:94:CYS:HB2	43:5L:46:PRO:CD	1.76	1.15
42:5H:135:ARG:CG	43:5L:54:LEU:N	2.10	1.15
42:5H:158:MET:HA	43:5L:158:HIS:CA	1.77	1.15
37:4H:969:LEU:HA	37:4H:1074:GLN:O	1.43	1.15
41:5A:142:ARG:CA	43:5L:166:ALA:O	1.95	1.15
37:4G:1335:MET:CB	37:4G:1338:PHE:H	1.59	1.14
37:4E:570:LEU:O	37:4E:574:LEU:HB2	1.44	1.14
37:4E:585:VAL:C	43:5L:10:LEU:HD11	1.70	1.14
37:4H:1322:ARG:O	38:4M:25:PRO:HB3	1.47	1.14
42:5H:139:LEU:HD23	43:5L:146:TYR:HB2	1.30	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1082:LEU:HB2	38:4N:38:VAL:O	1.48	1.14
37:4F:1082:LEU:CD1	38:4N:43:ASN:ND2	2.09	1.14
37:4F:1083:ILE:N	38:4N:35:ALA:O	1.79	1.14
42:5H:137:TYR:CB	43:5L:47:LYS:N	2.09	1.14
42:5H:139:LEU:C	43:5L:145:SER:O	1.90	1.14
37:4E:577:LEU:CA	43:5L:42:TYR:CE1	2.30	1.14
37:4F:1333:VAL:CB	38:4N:30:ALA:HB2	1.78	1.14
37:4G:854:TYR:CD2	38:4L:82:TYR:CE2	2.36	1.14
37:4H:1085:MET:HB2	37:4H:1367:VAL:HG11	1.28	1.14
38:4I:72:ARG:HE	38:4L:49:ILE:HG21	1.01	1.14
38:4I:77:VAL:HG22	38:4L:61:LEU:HD23	1.30	1.14
41:5A:120:TYR:O	43:5L:168:GLU:CD	1.88	1.14
37:4F:1323:ILE:CA	38:4N:26:GLU:CD	2.20	1.13
37:4H:1091:VAL:HB	38:4M:34:ALA:HA	1.21	1.13
42:5E:139:LEU:HD22	43:5I:141:LEU:CD2	1.78	1.13
42:5H:91:TYR:CE1	43:5L:42:TYR:HB3	1.83	1.13
37:4E:581:LEU:HA	43:5L:32:LEU:C	1.71	1.13
37:4F:1350:ILE:HG21	38:4N:34:ALA:HB1	1.31	1.13
37:4G:690:CYS:CB	38:4I:54:GLU:O	1.97	1.13
37:4G:970:SER:HB2	37:4G:1074:GLN:HE21	1.11	1.13
37:4E:589:PRO:CA	43:5L:20:HIS:N	2.11	1.13
37:4G:1073:LEU:C	38:4L:41:LYS:NZ	2.07	1.13
37:4G:1082:LEU:HD22	38:4L:40:LYS:H	1.05	1.13
37:4G:1331:TRP:CZ3	37:4G:1345:PRO:HA	1.83	1.13
42:5H:135:ARG:O	43:5L:52:LEU:N	1.81	1.13
42:5H:136:HIS:N	43:5L:50:ILE:N	1.96	1.13
12:3a:86:ARG:HE	12:4a:281:TYR:HA	1.12	1.13
37:4E:576:ALA:H	43:5L:30:ARG:CG	1.61	1.13
37:4F:1321:THR:CG2	37:4F:1322:ARG:H	1.37	1.13
37:4H:1074:GLN:HA	38:4M:38:VAL:HG21	1.17	1.13
37:4H:1324:THR:N	38:4M:25:PRO:HD2	1.64	1.13
41:5A:164:GLY:HA3	43:5L:165:LEU:CD1	1.78	1.13
37:4E:582:GLN:O	43:5L:37:THR:N	1.81	1.12
37:4G:691:MET:HA	38:4I:59:PRO:HG2	1.13	1.12
37:4G:1094:ALA:CB	38:4L:36:VAL:HG11	1.79	1.12
37:4H:1332:SER:C	38:4M:24:THR:HA	1.73	1.12
37:4E:576:ALA:CB	43:5L:52:LEU:HD21	1.78	1.12
37:4F:1094:ALA:N	38:4N:36:VAL:HG21	1.64	1.12
37:4F:1304:MET:H	37:4F:1316:GLN:HB2	1.15	1.12
42:5H:94:CYS:H	43:5L:45:ASN:CG	1.57	1.12
42:5H:137:TYR:CA	43:5L:47:LYS:C	2.23	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1138:VAL:N	38:4M:33:LYS:HG3	1.64	1.12
38:4K:49:ILE:CG2	38:4N:72:ARG:NH2	2.11	1.12
37:4F:1083:ILE:N	38:4N:38:VAL:HG23	1.63	1.12
37:4F:1321:THR:HG23	37:4F:1322:ARG:N	1.45	1.12
37:4E:580:GLU:C	43:5L:35:LYS:HB2	1.74	1.11
37:4E:585:VAL:HB	43:5L:10:LEU:HG	1.12	1.11
37:4E:585:VAL:HG11	43:5L:9:ASP:HB3	1.32	1.11
37:4F:1075:VAL:CA	38:4N:38:VAL:HG11	1.80	1.11
42:5H:135:ARG:C	43:5L:49:ALA:C	2.17	1.11
37:4F:1083:ILE:C	38:4N:38:VAL:N	2.07	1.11
37:4G:856:MET:HG2	38:4L:85:LEU:HB3	1.31	1.11
37:4H:856:MET:HG2	38:4M:85:LEU:HD13	1.30	1.11
42:5H:95:GLU:N	43:5L:44:THR:C	2.08	1.11
37:4E:581:LEU:CA	43:5L:35:LYS:N	2.08	1.11
37:4G:1093:VAL:CG2	38:4L:36:VAL:HG13	1.80	1.11
37:4E:579:THR:C	43:5L:35:LYS:HG2	1.74	1.11
37:4E:581:LEU:N	43:5L:31:ASP:O	1.83	1.11
37:4E:586:PHE:O	43:5L:18:ILE:CD1	1.98	1.11
37:4F:856:MET:SD	38:4N:85:LEU:HD13	1.90	1.11
37:4F:1324:THR:CA	38:4N:26:GLU:HG3	1.80	1.11
37:4H:429:TYR:HB2	37:4H:854:TYR:CE1	1.86	1.11
37:4H:1331:TRP:CD1	38:4M:27:ALA:HB2	1.86	1.11
38:4K:25:PRO:HG3	42:5G:96:ALA:HB3	1.30	1.11
42:5H:139:LEU:HA	43:5L:146:TYR:CD1	1.83	1.11
3:1H:1006:ASP:HB3	47:6A:409:ARG:CD	1.81	1.11
4:1J:68:ASN:HA	47:6B:99:GLN:OE1	1.49	1.11
13:1h:279:GLU:OE2	14:2G:32:LYS:NZ	1.84	1.11
37:4E:578:ASP:N	43:5L:42:TYR:OH	1.83	1.11
37:4G:1323:ILE:CA	38:4L:26:GLU:CG	2.27	1.11
37:4G:1335:MET:HG3	38:4L:32:GLU:HB2	1.27	1.11
37:4H:1321:THR:OG1	38:4M:29:LYS:NZ	1.84	1.11
3:1H:197:SER:C	47:6A:290:GLY:H	1.57	1.10
37:4E:580:GLU:HA	43:5L:35:LYS:HB2	1.25	1.10
37:4G:1093:VAL:HG13	37:4G:1094:ALA:HA	1.18	1.10
41:5A:141:ASN:HA	43:5L:168:GLU:CD	1.76	1.10
42:5H:138:ARG:N	43:5L:47:LYS:C	2.08	1.10
37:4F:1082:LEU:HG	38:4N:39:HIS:CD2	1.85	1.10
37:4F:1322:ARG:HH12	37:4F:1711:PRO:HA	1.04	1.10
37:4H:972:PHE:CD1	38:4M:41:LYS:CG	2.32	1.10
41:5A:120:TYR:O	43:5L:168:GLU:CG	1.99	1.10
10:1R:334:PRO:HG2	13:Ab:409:VAL:HG21	1.24	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5E:139:LEU:HD22	43:5I:141:LEU:HD21	1.17	1.10
42:5H:137:TYR:C	43:5L:47:LYS:O	1.93	1.10
37:4E:576:ALA:HA	43:5L:30:ARG:O	1.51	1.10
37:4E:582:GLN:O	43:5L:37:THR:CA	1.99	1.10
37:4E:590:LYS:HA	43:5L:21:PRO:HD3	1.15	1.10
37:4G:969:LEU:HA	37:4G:1074:GLN:HB2	1.28	1.10
37:4G:1083:ILE:HG13	37:4G:1352:PRO:HB3	1.26	1.10
37:4G:1335:MET:N	38:4L:28:VAL:HA	1.66	1.10
37:4H:1091:VAL:CG2	37:4H:1091:VAL:CG1	2.30	1.10
47:6B:402:MET:HE2	3:6D:1011:GLU:HB3	1.16	1.10
37:4E:581:LEU:CB	43:5L:34:ALA:H	1.57	1.10
37:4G:1093:VAL:HG13	37:4G:1094:ALA:N	1.63	1.10
37:4G:1333:VAL:CG2	38:4L:27:ALA:N	2.13	1.09
37:4H:1137:ALA:N	38:4M:33:LYS:HE2	1.66	1.09
1:0V:95:GLN:HG3	25:2W:62:UNK:HA	1.32	1.09
37:4E:587:ALA:N	43:5L:18:ILE:HG12	1.68	1.09
37:4F:1333:VAL:C	38:4N:30:ALA:N	2.11	1.09
37:4F:1333:VAL:N	38:4N:27:ALA:CB	2.14	1.09
37:4G:529:VAL:HG12	38:4I:62:MET:HG2	1.28	1.09
12:6e:86:ARG:NH2	12:7e:281:TYR:O	1.82	1.09
12:Dg:60:VAL:HG21	12:Dg:86:ARG:HG2	1.34	1.09
34:3O:370:GLU:HA	34:3Y:360:VAL:HB	1.32	1.09
42:5H:96:ALA:N	43:5L:43:GLN:O	1.83	1.09
42:5H:136:HIS:N	43:5L:49:ALA:C	2.11	1.09
37:4E:576:ALA:CA	43:5L:30:ARG:O	2.01	1.09
37:4E:577:LEU:C	43:5L:42:TYR:HE1	1.58	1.09
38:4K:24:THR:HG21	42:5G:97:HIS:HB2	1.28	1.09
42:5H:49:ILE:HG23	43:5L:144:TYR:HA	1.15	1.09
42:5H:139:LEU:CD2	42:5H:139:LEU:CD1	2.30	1.09
47:6B:290:GLY:H	3:6D:197:SER:C	1.59	1.09
37:4F:1082:LEU:HD11	38:4N:43:ASN:CG	1.77	1.09
37:4F:1333:VAL:HB	38:4N:30:ALA:HB2	1.14	1.09
37:4G:1082:LEU:CB	38:4L:39:HIS:HB2	1.80	1.09
37:4H:1136:ARG:HB2	37:4H:1145:VAL:O	1.48	1.09
38:4I:28:VAL:HG21	42:5E:100:GLY:HA2	1.11	1.09
37:4E:589:PRO:CD	43:5L:17:SER:HA	1.83	1.08
37:4E:590:LYS:CA	43:5L:20:HIS:HA	1.81	1.08
37:4F:1323:ILE:HA	38:4N:26:GLU:CG	1.82	1.08
37:4F:1332:SER:C	38:4N:27:ALA:HB2	1.76	1.08
37:4G:970:SER:HB2	37:4G:1074:GLN:HG2	1.33	1.08
37:4G:1082:LEU:HB2	38:4L:39:HIS:HB2	1.15	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1092:LEU:O	38:4M:36:VAL:HG13	1.51	1.08
37:4H:1323:ILE:HA	38:4M:25:PRO:CB	1.83	1.08
42:5H:91:TYR:C	43:5L:45:ASN:ND2	2.11	1.08
1:0A:219:ILE:HG12	1:0A:255:LYS:HD3	1.29	1.08
1:0M:55:PRO:HB2	1:0M:96:ASN:HD21	1.08	1.08
1:0R:219:ILE:HG12	1:0R:255:LYS:HD3	1.29	1.08
37:4F:540:VAL:HG22	38:4N:69:CYS:SG	1.92	1.08
42:5H:91:TYR:HA	43:5L:45:ASN:HB2	1.28	1.08
37:4F:1323:ILE:CA	38:4N:26:GLU:OE1	1.98	1.08
37:4G:1082:LEU:HD22	38:4L:40:LYS:N	1.69	1.08
37:4G:1082:LEU:HD12	38:4L:36:VAL:HA	1.14	1.08
37:4G:1315:VAL:O	37:4G:1322:ARG:HA	1.54	1.08
37:4H:1323:ILE:CA	38:4M:25:PRO:HG2	1.82	1.08
42:5H:92:THR:N	43:5L:41:ASP:HB3	1.69	1.08
37:4E:586:PHE:CD2	43:5L:15:LEU:HG	1.88	1.08
37:4F:1083:ILE:C	38:4N:37:GLY:C	2.21	1.08
42:5H:135:ARG:N	43:5L:53:ASP:OD2	1.85	1.08
42:5H:137:TYR:CB	43:5L:47:LYS:CA	2.31	1.08
47:6A:107:THR:HA	47:6A:110:LYS:HD2	1.30	1.08
37:4E:590:LYS:N	43:5L:20:HIS:CA	2.16	1.08
37:4F:1084:ARG:HG2	37:4F:1092:LEU:HB2	1.30	1.08
37:4G:1333:VAL:HG21	38:4L:27:ALA:H	1.14	1.08
1:0Z:253:PHE:HZ	1:0Z:278:VAL:HG11	1.19	1.07
37:4F:958:LEU:HD21	37:4F:970:SER:HB2	1.33	1.07
42:5H:49:ILE:HA	43:5L:144:TYR:HB2	1.34	1.07
30:3G:538:LEU:HB3	13:7h:120:ASP:OD1	1.52	1.07
37:4F:1082:LEU:CB	38:4N:39:HIS:CA	2.32	1.07
37:4G:1334:GLU:C	38:4L:28:VAL:HA	1.79	1.07
37:4H:1333:VAL:HG21	38:4M:27:ALA:HB1	1.24	1.07
42:5H:135:ARG:HG3	43:5L:55:TYR:H	1.13	1.07
42:5H:135:ARG:HD3	43:5L:56:VAL:CB	1.84	1.07
47:6B:107:THR:HA	47:6B:110:LYS:HD2	1.30	1.07
41:5A:140:GLU:CA	43:5L:168:GLU:O	2.02	1.07
42:5H:135:ARG:HE	43:5L:55:TYR:HB2	0.99	1.07
14:2G:68:CYS:HB2	13:Cf:46:ASP:HB2	1.31	1.07
37:4F:510:HIS:CD2	38:4N:70:LYS:HE2	1.89	1.07
37:4G:1073:LEU:C	38:4L:41:LYS:HZ1	1.62	1.07
37:4H:1138:VAL:HG21	38:4M:30:ALA:HB2	1.08	1.07
42:5H:95:GLU:N	43:5L:45:ASN:N	2.02	1.07
3:1H:1006:ASP:CB	47:6A:409:ARG:HD3	1.85	1.07
5:1M:522:PRO:HB3	13:1f:159:VAL:HG22	1.37	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1075:VAL:C	38:4N:38:VAL:HG11	1.79	1.07
37:4H:1138:VAL:O	37:4H:1143:LEU:N	1.86	1.07
38:4I:72:ARG:HE	38:4L:49:ILE:CG2	1.68	1.07
38:4J:25:PRO:HG3	42:5F:96:ALA:HB3	1.36	1.07
42:5H:91:TYR:HB3	43:5L:41:ASP:HB2	1.36	1.07
14:2F:68:CYS:HB2	13:Cb:46:ASP:HB2	1.36	1.06
37:4G:1333:VAL:HA	38:4L:24:THR:C	1.80	1.06
37:4G:1082:LEU:HD11	37:4G:1082:LEU:HD22	1.23	1.06
37:4H:1084:ARG:NE	38:4M:37:GLY:O	1.86	1.06
42:5H:130:ALA:O	42:5H:132:GLY:N	1.87	1.06
42:5H:137:TYR:HB2	43:5L:46:PRO:C	1.73	1.06
1:1B:347:GLU:HB2	1:1B:353:LYS:HE2	1.37	1.06
37:4H:1074:GLN:HB2	38:4M:38:VAL:HG11	1.08	1.06
37:4H:1093:VAL:HB	38:4M:32:GLU:HA	1.35	1.06
43:5K:112:PRO:HB3	44:5U:115:ASN:HB2	1.34	1.06
37:4E:580:GLU:CA	43:5L:35:LYS:HB2	1.84	1.06
38:4K:49:ILE:HG23	38:4N:72:ARG:NE	1.70	1.06
42:5H:137:TYR:CB	42:5H:137:TYR:CG	2.39	1.06
47:6B:406:ARG:HE	3:6D:1002:PRO:HB2	1.18	1.06
37:4E:581:LEU:HG	43:5L:34:ALA:H	1.17	1.06
37:4G:1074:GLN:CA	38:4L:41:LYS:HZ2	1.68	1.06
41:5A:120:TYR:CA	43:5L:168:GLU:CD	2.28	1.06
42:5H:135:ARG:HA	43:5L:52:LEU:HB3	1.37	1.06
1:0F:311:LEU:HD11	1:0F:351:HIS:HD2	1.20	1.05
37:4E:590:LYS:O	37:4E:590:LYS:HG3	1.55	1.05
37:4E:1135:PHE:HE2	38:4O:34:ALA:HB1	1.16	1.05
37:4F:1334:GLU:HB2	37:4F:1340:PRO:HB3	1.33	1.05
37:4F:1350:ILE:HG21	38:4N:34:ALA:HB2	1.30	1.05
37:4H:1091:VAL:CB	37:4H:1091:VAL:N	2.18	1.05
37:4E:579:THR:O	43:5L:35:LYS:CG	2.02	1.05
37:4E:588:PRO:CA	43:5L:17:SER:O	2.03	1.05
37:4H:540:VAL:HG13	38:4M:69:CYS:SG	1.96	1.05
38:4K:77:VAL:HG11	38:4N:57:VAL:HG21	1.39	1.05
37:4E:588:PRO:HD3	43:5L:32:LEU:HB2	1.34	1.05
37:4F:1333:VAL:C	38:4N:30:ALA:H	1.64	1.05
37:4G:529:VAL:CG1	38:4I:62:MET:HG2	1.86	1.05
38:4N:63:GLN:HB3	38:4N:83:TYR:HE1	1.22	1.05
42:5H:95:GLU:H	43:5L:44:THR:C	1.65	1.05
1:0F:261:LYS:HD3	39:4Q:136:LEU:HB3	1.38	1.05
13:1d:279:GLU:OE2	14:2F:32:LYS:NZ	1.88	1.05
37:4F:1083:ILE:CA	38:4N:38:VAL:H	1.66	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4I:63:GLN:HB3	38:4I:83:TYR:HE1	1.22	1.05
38:4K:57:VAL:HG11	38:4N:76:PRO:HG2	1.38	1.05
38:4M:63:GLN:HB3	38:4M:83:TYR:HE1	1.22	1.05
42:5H:135:ARG:C	43:5L:52:LEU:H	1.63	1.05
1:0O:311:LEU:HD11	1:0O:351:HIS:HD2	1.18	1.05
30:3G:539:LEU:CD2	13:8h:340:THR:HG21	1.87	1.05
12:3e:317:PHE:HB3	12:3e:321:MET:HE1	1.38	1.05
42:5H:90:ALA:O	43:5L:45:ASN:CG	1.98	1.05
42:5H:139:LEU:HD12	43:5L:83:HIS:HE1	1.21	1.05
47:6B:354:MET:HG3	3:6D:265:TRP:HZ2	1.19	1.05
37:4E:575:SER:O	37:4E:577:LEU:N	1.90	1.04
42:5H:136:HIS:NE2	43:5L:142:TYR:CE1	2.24	1.04
3:1H:1009:ARG:HB3	48:6F:353:ILE:HD13	1.39	1.04
12:1e:317:PHE:HB3	12:1e:321:MET:HE1	1.39	1.04
37:4E:581:LEU:CG	43:5L:33:LEU:N	2.20	1.04
37:4E:581:LEU:HD23	43:5L:30:ARG:CA	1.87	1.04
37:4F:1082:LEU:CB	37:4F:1082:LEU:CD2	2.34	1.04
37:4G:1083:ILE:O	38:4L:38:VAL:HG22	1.55	1.04
38:4K:77:VAL:HG21	38:4N:57:VAL:CG2	1.85	1.04
38:4L:25:PRO:O	38:4L:28:VAL:HB	1.58	1.04
42:5E:143:VAL:HA	43:5I:144:TYR:CE2	1.92	1.04
1:0R:249:GLY:HA3	47:6B:337:ARG:HH12	1.19	1.04
12:1a:317:PHE:HB3	12:1a:321:MET:HE1	1.40	1.04
37:4E:583:GLU:CA	43:5L:37:THR:N	2.12	1.04
37:4F:1082:LEU:CA	38:4N:38:VAL:HB	1.88	1.04
37:4G:668:PRO:HG2	38:4I:36:VAL:HG21	1.40	1.04
37:4G:1082:LEU:CD1	38:4L:36:VAL:HA	1.87	1.04
37:4H:1315:VAL:O	37:4H:1322:ARG:CA	2.05	1.04
42:5H:49:ILE:CG2	43:5L:144:TYR:HA	1.87	1.04
42:5H:139:LEU:HB3	43:5L:145:SER:C	1.82	1.04
12:7e:317:PHE:HB3	12:7e:321:MET:HE1	1.40	1.04
37:4F:1334:GLU:C	38:4N:28:VAL:O	2.00	1.04
37:4G:1136:ARG:HG2	37:4G:1146:SER:HA	1.38	1.04
38:4I:25:PRO:O	38:4I:28:VAL:HB	1.58	1.04
38:4M:25:PRO:O	38:4M:28:VAL:HB	1.58	1.04
3:1H:197:SER:O	47:6A:290:GLY:N	1.91	1.04
3:1H:1006:ASP:CG	47:6A:409:ARG:HH11	1.64	1.04
37:4G:671:LEU:HD22	38:4I:40:LYS:CA	1.86	1.04
37:4G:1093:VAL:HG23	38:4L:36:VAL:N	1.73	1.04
37:4H:1091:VAL:HB	37:4H:1091:VAL:CA	1.81	1.04
41:5A:21:GLY:N	43:5L:191:LYS:H	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:139:LEU:HD11	42:5H:139:LEU:HD21	1.31	1.04
37:4E:590:LYS:CA	43:5L:21:PRO:HD3	1.86	1.03
37:4G:1094:ALA:N	38:4L:36:VAL:CG1	2.12	1.03
37:4H:1084:ARG:HG2	38:4M:37:GLY:HA3	1.39	1.03
42:5H:137:TYR:C	43:5L:47:LYS:CA	2.30	1.03
42:5H:143:VAL:HG22	43:5L:147:THR:O	1.58	1.03
12:5e:317:PHE:HB3	12:5e:321:MET:HE1	1.40	1.03
49:6J:401:VAL:HG11	49:6J:432:LEU:HD12	1.37	1.03
12:6e:317:PHE:HB3	12:6e:321:MET:HE1	1.40	1.03
12:8a:317:PHE:HB3	12:8a:321:MET:HE1	1.37	1.03
37:4F:1321:THR:HG23	37:4F:1322:ARG:CA	1.88	1.03
37:4G:854:TYR:CE2	38:4L:82:TYR:CE2	2.45	1.03
38:4J:63:GLN:HB3	38:4J:83:TYR:HE1	1.22	1.03
38:4K:63:GLN:HB3	38:4K:83:TYR:HE1	1.22	1.03
42:5H:94:CYS:HB2	43:5L:46:PRO:HD2	1.04	1.03
42:5H:137:TYR:C	43:5L:47:LYS:C	2.27	1.03
47:6B:409:ARG:NH2	3:6D:1006:ASP:OD1	1.91	1.03
12:9e:317:PHE:HB3	12:9e:321:MET:HE1	1.40	1.03
34:3O:486:ARG:HA	34:3O:489:MET:HE2	1.37	1.03
37:4F:1082:LEU:CD2	38:4N:42:ILE:HB	1.88	1.03
37:4G:1093:VAL:HG22	37:4G:1094:ALA:N	1.74	1.03
37:4H:1323:ILE:HG12	38:4M:25:PRO:HB2	1.40	1.03
12:Be:317:PHE:HB3	12:Be:321:MET:HE1	1.40	1.03
12:Ce:317:PHE:HB3	12:Ce:321:MET:HE1	1.40	1.03
12:De:317:PHE:HB3	12:De:321:MET:HE1	1.40	1.03
1:0G:311:LEU:HD11	1:0G:351:HIS:HD2	1.20	1.03
10:1R:58:THR:H	13:Ad:339:ARG:NH2	1.57	1.03
10:1S:155:THR:HG21	13:9f:96:LYS:HB2	1.35	1.03
54:2f:501:GTP:O1B	12:2g:252:LYS:NZ	1.92	1.03
49:6I:203:ASN:HB3	49:6I:258:ASN:HA	1.40	1.03
12:8e:317:PHE:HB3	12:8e:321:MET:HE1	1.38	1.03
12:Ca:317:PHE:HB3	12:Ca:321:MET:HE1	1.40	1.03
37:4G:1093:VAL:CB	38:4L:36:VAL:H	1.72	1.03
37:4G:1335:MET:HE3	37:4G:1338:PHE:C	1.84	1.03
37:4H:1082:LEU:HD12	38:4M:39:HIS:CB	1.88	1.03
38:4K:49:ILE:HG22	38:4N:72:ARG:HH21	0.95	1.03
42:5H:139:LEU:O	42:5H:143:VAL:HB	1.58	1.03
49:6H:401:VAL:HG11	49:6H:432:LEU:HD12	1.37	1.03
12:6a:317:PHE:HB3	12:6a:321:MET:HE1	1.41	1.03
12:Ae:317:PHE:HB3	12:Ae:321:MET:HE1	1.39	1.03
54:2b:501:GTP:O1B	12:2c:252:LYS:NZ	1.91	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:574:LEU:CA	43:5L:30:ARG:HE	1.71	1.02
37:4E:584:ALA:CA	43:5L:36:TYR:HD2	1.70	1.02
37:4F:431:ALA:HB3	38:4N:86:SER:OG	1.59	1.02
37:4F:1074:GLN:CA	38:4N:41:LYS:HD3	1.88	1.02
38:4I:72:ARG:HG3	38:4L:49:ILE:CG2	1.87	1.02
42:5H:49:ILE:CG2	42:5H:49:ILE:CD1	2.37	1.02
42:5H:93:GLU:C	43:5L:44:THR:O	2.01	1.02
42:5H:137:TYR:N	43:5L:47:LYS:O	1.93	1.02
42:5H:139:LEU:HD12	43:5L:83:HIS:CE1	1.93	1.02
49:6I:401:VAL:HG11	49:6I:432:LEU:HD12	1.37	1.02
1:0W:311:LEU:HD11	1:0W:351:HIS:HD2	1.20	1.02
37:4E:581:LEU:HB3	43:5L:34:ALA:CB	1.87	1.02
37:4F:1333:VAL:O	37:4F:1341:ILE:N	1.91	1.02
37:4H:1332:SER:O	38:4M:24:THR:C	2.02	1.02
37:4H:1332:SER:OG	38:4M:24:THR:HB	1.60	1.02
37:4H:1333:VAL:O	37:4H:1340:PRO:CA	2.05	1.02
38:4L:63:GLN:HB3	38:4L:83:TYR:HE1	1.22	1.02
42:5H:158:MET:C	43:5L:158:HIS:CD2	2.37	1.02
49:6J:203:ASN:HB3	49:6J:258:ASN:HA	1.40	1.02
54:Cf:501:GTP:O1B	12:Cg:252:LYS:NZ	1.92	1.02
37:4E:586:PHE:N	43:5L:10:LEU:HD21	1.74	1.02
37:4H:1091:VAL:CA	38:4M:33:LYS:O	2.07	1.02
37:4H:1350:ILE:HG12	38:4M:31:ALA:CB	1.90	1.02
38:4K:76:PRO:CD	38:4N:53:LEU:CD2	2.33	1.02
1:0J:407:VAL:O	1:0J:411:LEU:HB2	1.60	1.02
1:1B:407:VAL:O	1:1B:411:LEU:HB2	1.60	1.02
12:2e:317:PHE:HB3	12:2e:321:MET:HE1	1.40	1.02
31:3I:285:ARG:CZ	13:9h:396:ASP:HB2	1.90	1.02
12:3a:317:PHE:HB3	12:3a:321:MET:HE1	1.40	1.02
37:4F:540:VAL:HG12	38:4N:72:ARG:HH11	1.11	1.02
37:4F:1083:ILE:C	38:4N:41:LYS:HE3	1.85	1.02
37:4F:1084:ARG:N	38:4N:37:GLY:HA3	1.71	1.02
37:4H:1091:VAL:CB	38:4M:34:ALA:N	2.21	1.02
37:4H:1323:ILE:CB	38:4M:26:GLU:H	1.72	1.02
12:4e:317:PHE:HB3	12:4e:321:MET:HE1	1.40	1.02
42:5H:139:LEU:CB	43:5L:146:TYR:CD2	2.41	1.02
10:1S:58:THR:H	13:Ah:339:ARG:NH2	1.57	1.02
37:4E:582:GLN:CA	43:5L:33:LEU:O	2.07	1.02
37:4G:1333:VAL:HG22	38:4L:27:ALA:H	1.22	1.02
37:4H:1074:GLN:HE22	38:4M:39:HIS:CD2	1.78	1.02
37:4H:1091:VAL:C	38:4M:34:ALA:C	2.27	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:138:ARG:HA	43:5L:47:LYS:HB3	1.42	1.02
47:6A:40:LEU:HD11	47:6A:101:LEU:HD21	1.42	1.02
47:6B:40:LEU:HD11	47:6B:101:LEU:HD21	1.42	1.02
49:6H:203:ASN:HB3	49:6H:258:ASN:HA	1.40	1.02
12:Ba:317:PHE:HB3	12:Ba:321:MET:HE1	1.40	1.02
12:Da:317:PHE:HB3	12:Da:321:MET:HE1	1.41	1.02
1:0U:311:LEU:HD11	1:0U:351:HIS:HD2	1.25	1.01
3:1H:1010:LEU:HD22	47:6A:402:MET:HE3	1.42	1.01
37:4E:580:GLU:N	43:5L:35:LYS:CE	2.23	1.01
37:4G:1323:ILE:N	38:4L:26:GLU:CG	2.23	1.01
37:4H:903:THR:HG22	37:4H:906:THR:HG23	1.42	1.01
42:5H:49:ILE:CD1	42:5H:49:ILE:HG21	1.89	1.01
42:5H:135:ARG:HG3	43:5L:55:TYR:N	1.73	1.01
42:5H:158:MET:HA	43:5L:158:HIS:HA	1.02	1.01
2:1F:82:LEU:HD11	2:1F:118:PRO:HB2	1.42	1.01
34:3S:52:GLN:HG2	34:3S:56:TYR:HE2	1.20	1.01
37:4E:1341:ILE:HG12	37:4E:1350:ILE:HD12	1.38	1.01
37:4F:1082:LEU:C	37:4F:1082:LEU:HA	1.81	1.01
37:4F:1187:THR:OG1	37:4F:1299:ARG:NH1	1.93	1.01
37:4F:1333:VAL:C	38:4N:27:ALA:CA	2.34	1.01
37:4G:691:MET:SD	38:4I:59:PRO:HB3	1.99	1.01
37:4G:1094:ALA:HB3	38:4L:36:VAL:CG1	1.88	1.01
37:4H:1136:ARG:C	38:4M:33:LYS:CE	2.32	1.01
37:4H:1323:ILE:HA	38:4M:25:PRO:HG2	1.01	1.01
42:5H:139:LEU:HG	43:5L:146:TYR:CD2	1.91	1.01
49:6G:401:VAL:HG11	49:6G:432:LEU:HD12	1.37	1.01
54:Df:501:GTP:O1B	12:Dg:252:LYS:NZ	1.93	1.01
12:2a:317:PHE:HB3	12:2a:321:MET:HE1	1.39	1.01
30:3G:539:LEU:HD21	13:8h:340:THR:CG2	1.90	1.01
37:4E:581:LEU:CD2	43:5L:30:ARG:C	2.31	1.01
37:4E:586:PHE:C	43:5L:18:ILE:HD13	1.85	1.01
37:4E:1313:VAL:HG21	38:4O:17:LEU:HD11	1.40	1.01
37:4F:577:LEU:HD11	42:5G:135:ARG:HG2	1.38	1.01
37:4F:1314:LEU:HA	38:4N:26:GLU:OE2	1.61	1.01
42:5F:139:LEU:HD22	43:5J:141:LEU:HD21	1.41	1.01
42:5H:49:ILE:CG2	43:5L:144:TYR:HD1	1.73	1.01
42:5H:135:ARG:CD	43:5L:56:VAL:H	1.72	1.01
42:5H:135:ARG:HH12	43:5L:33:LEU:CD2	1.73	1.01
12:6c:242:PHE:HB3	12:6c:356:ILE:HD13	1.41	1.01
1:1B:52:ASP:H	1:1B:58:GLN:HE21	1.06	1.01
17:2J:60:UNK:CB	13:Bb:77:GLU:OE1	2.09	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:691:MET:HA	38:4I:59:PRO:CG	1.90	1.01
37:4H:1136:ARG:CG	38:4M:33:LYS:NZ	2.22	1.01
38:4K:25:PRO:O	38:4K:28:VAL:HB	1.58	1.01
38:4N:25:PRO:O	38:4N:28:VAL:HB	1.57	1.01
42:5H:141:GLN:N	43:5L:47:LYS:HG2	1.75	1.01
43:5K:84:HIS:HA	43:5K:87:ILE:HD12	1.42	1.01
49:6G:203:ASN:HB3	49:6G:258:ASN:HA	1.40	1.01
6:1N:1785:ILE:HG12	8:1P:695:VAL:HG13	1.43	1.01
37:4F:1339:ALA:C	38:4N:31:ALA:HB3	1.86	1.01
37:4G:1319:ASP:HB3	38:4L:29:LYS:HZ1	1.22	1.01
41:5A:21:GLY:N	43:5L:191:LYS:N	2.08	1.01
47:6B:290:GLY:N	3:6D:197:SER:O	1.93	1.01
12:9a:60:VAL:HG22	12:Aa:281:TYR:HD1	1.26	1.01
37:4E:575:SER:H	43:5L:30:ARG:HD3	1.25	1.00
37:4E:579:THR:CA	43:5L:35:LYS:HE3	1.91	1.00
37:4E:581:LEU:CB	37:4E:581:LEU:HG	1.88	1.00
37:4F:1322:ARG:HB3	38:4N:25:PRO:HB2	1.02	1.00
37:4F:1340:PRO:N	38:4N:31:ALA:HB3	1.76	1.00
38:4J:25:PRO:O	38:4J:28:VAL:HB	1.58	1.00
12:4a:317:PHE:HB3	12:4a:321:MET:HE1	1.41	1.00
42:5H:135:ARG:HH12	43:5L:33:LEU:HD21	0.92	1.00
13:Cb:221:ARG:HG2	12:Cc:325:GLU:OE2	1.60	1.00
30:3F:301:VAL:HG12	13:6f:264:ARG:HB3	1.44	1.00
37:4E:1135:PHE:CE2	38:4O:34:ALA:HB1	1.95	1.00
37:4F:1082:LEU:HD11	38:4N:43:ASN:CB	1.91	1.00
37:4G:1084:ARG:HG2	38:4L:37:GLY:HA2	1.43	1.00
37:4G:1341:ILE:HB	38:4L:27:ALA:HB1	1.41	1.00
37:4H:1091:VAL:CA	38:4M:34:ALA:CA	2.39	1.00
12:7a:317:PHE:HB3	12:7a:321:MET:HE1	1.39	1.00
37:4F:1138:VAL:HG12	37:4F:1142:GLY:HA2	1.43	1.00
37:4F:1334:GLU:CA	38:4N:27:ALA:O	2.07	1.00
37:4G:1074:GLN:HA	38:4L:41:LYS:HZ2	1.03	1.00
39:4S:73:ARG:NH2	44:5R:149:MET:O	1.94	1.00
42:5H:93:GLU:N	43:5L:45:ASN:ND2	2.08	1.00
42:5H:94:CYS:CB	43:5L:46:PRO:HD2	1.90	1.00
42:5H:140:TYR:HE1	43:5L:50:ILE:CD1	1.74	1.00
43:5J:84:HIS:HA	43:5J:87:ILE:HD12	1.42	1.00
54:Db:501:GTP:O1B	12:Dc:252:LYS:NZ	1.94	1.00
1:1A:311:LEU:HD11	1:1A:351:HIS:HD2	1.25	1.00
37:4G:529:VAL:HG12	38:4I:62:MET:CG	1.91	1.00
42:5H:137:TYR:CA	43:5L:46:PRO:O	2.09	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1074:GLN:HE22	38:4N:44:LEU:HB3	1.21	1.00
37:4G:540:VAL:HG11	38:4L:69:CYS:SG	2.02	1.00
37:4H:1332:SER:HB2	37:4H:1342:LEU:HD22	1.41	1.00
37:4F:1075:VAL:O	37:4F:1082:LEU:HA	1.61	1.00
38:4N:29:LYS:O	38:4N:33:LYS:HG2	1.62	1.00
42:5H:135:ARG:CB	42:5H:135:ARG:C	2.35	1.00
10:1R:155:THR:HG21	13:9b:96:LYS:HB2	1.40	0.99
34:3M:52:GLN:HG3	34:3M:288:MET:HE1	1.41	0.99
38:4I:77:VAL:HG13	38:4L:84:LEU:HD13	1.44	0.99
12:5a:317:PHE:HB3	12:5a:321:MET:HE1	1.40	0.99
12:9a:317:PHE:HB3	12:9a:321:MET:HE1	1.40	0.99
37:4G:1083:ILE:O	38:4L:38:VAL:CG2	2.10	0.99
47:6B:286:ARG:O	3:6D:197:SER:CA	2.10	0.99
37:4E:582:GLN:O	43:5L:37:THR:CB	2.10	0.99
3:1H:991:ILE:HG12	47:6A:399:LYS:HE3	1.44	0.99
12:Ba:86:ARG:HD2	12:Ba:87:PRO:HD2	1.42	0.99
37:4E:579:THR:C	43:5L:35:LYS:HE3	1.87	0.99
37:4H:1092:LEU:HA	38:4M:33:LYS:HE3	1.45	0.99
37:4G:1323:ILE:HA	38:4L:26:GLU:HG3	1.41	0.99
37:4G:1335:MET:SD	37:4G:1338:PHE:HB2	2.02	0.99
37:4H:1084:ARG:CD	38:4M:41:LYS:CE	2.38	0.99
38:4I:68:LEU:HD12	38:4I:80:LEU:HB2	1.45	0.99
41:5A:21:GLY:N	43:5L:187:GLU:O	1.96	0.99
12:7e:87:PRO:HD3	12:8e:281:TYR:CD1	1.97	0.99
1:0H:52:ASP:H	1:0H:58:GLN:HE21	1.09	0.99
37:4F:1081:HIS:CG	37:4F:1338:PHE:HZ	1.80	0.99
37:4F:1334:GLU:CA	38:4N:28:VAL:O	2.11	0.99
37:4G:826:LEU:HD11	38:4L:81:ALA:HB1	1.45	0.99
37:4G:1333:VAL:HG22	38:4L:27:ALA:N	1.73	0.99
42:5H:137:TYR:CG	43:5L:47:LYS:CA	2.46	0.99
1:0J:52:ASP:H	1:0J:58:GLN:HE21	1.06	0.99
37:4F:1082:LEU:C	38:4N:38:VAL:CB	2.35	0.99
54:7f:501:GTP:O1B	12:7g:252:LYS:NZ	1.95	0.99
1:0L:161:GLN:HB3	6:1N:564:ARG:HH12	1.21	0.99
41:5A:120:TYR:CB	43:5L:168:GLU:HG3	1.93	0.99
42:5H:139:LEU:CB	43:5L:145:SER:C	2.35	0.99
12:Ae:58:ARG:HH21	12:Ae:86:ARG:HH12	1.06	0.99
37:4F:1082:LEU:HD12	38:4N:39:HIS:CG	1.97	0.98
37:4H:826:LEU:HD22	38:4M:82:TYR:OH	1.62	0.98
1:0D:311:LEU:HD11	1:0D:351:HIS:HD2	1.23	0.98
12:2a:163:MET:HE3	12:2a:164:MET:H	1.27	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1335:MET:CG	38:4N:32:GLU:OE1	2.11	0.98
37:4G:933:ARG:HE	38:4I:71:GLU:HG3	1.25	0.98
37:4H:1332:SER:O	38:4M:24:THR:CA	2.11	0.98
38:4K:25:PRO:HG3	42:5G:96:ALA:CB	1.93	0.98
38:4K:68:LEU:HD12	38:4K:80:LEU:HB2	1.45	0.98
38:4N:68:LEU:HD12	38:4N:80:LEU:HB2	1.45	0.98
42:5H:91:TYR:CA	43:5L:45:ASN:HB2	1.93	0.98
37:4F:1074:GLN:HA	38:4N:41:LYS:HD3	1.44	0.98
37:4F:1083:ILE:HA	38:4N:34:ALA:O	1.63	0.98
44:5V:110:ARG:HG3	44:5V:125:VAL:HG11	1.42	0.98
47:6B:186:ALA:HA	13:Ch:339:ARG:HD2	1.45	0.98
37:4H:1138:VAL:HG21	38:4M:30:ALA:CB	1.92	0.98
42:5H:135:ARG:CB	43:5L:50:ILE:C	2.37	0.98
1:0B:311:LEU:HD11	1:0B:351:HIS:HD2	1.27	0.98
38:4K:84:LEU:HB3	38:4N:77:VAL:HG22	1.43	0.98
37:4E:584:ALA:HB3	37:4E:586:PHE:O	1.64	0.98
37:4F:1334:GLU:N	38:4N:30:ALA:N	2.11	0.98
37:4H:510:HIS:NE2	38:4M:70:LYS:HE3	1.78	0.98
1:0V:52:ASP:H	1:0V:58:GLN:HE21	1.11	0.98
37:4H:1332:SER:N	38:4M:24:THR:HA	1.79	0.98
3:1H:197:SER:CA	47:6A:286:ARG:O	2.12	0.98
17:2J:57:UNK:HA	13:Bb:84:ARG:HH22	1.26	0.98
37:4E:575:SER:C	37:4E:577:LEU:H	1.68	0.98
37:4E:581:LEU:N	43:5L:35:LYS:N	2.09	0.98
37:4G:1323:ILE:HB	37:4G:1323:ILE:C	1.88	0.98
37:4G:1333:VAL:C	38:4L:27:ALA:HB3	1.89	0.98
37:4H:940:ALA:HB2	37:4H:955:GLY:HA3	1.44	0.98
37:4H:1323:ILE:CD1	38:4M:26:GLU:OE1	2.11	0.98
38:4J:85:LEU:HD23	38:4M:77:VAL:CG1	1.94	0.98
41:5A:141:ASN:HA	43:5L:168:GLU:CG	1.94	0.98
43:5L:84:HIS:HA	43:5L:87:ILE:HD12	1.42	0.98
12:Aa:317:PHE:HB3	12:Aa:321:MET:HE1	1.40	0.98
24:2V:141:ARG:HB2	13:Df:215:ARG:HD3	1.44	0.98
36:4D:189:PRO:HB2	38:4O:7:ALA:HB2	1.46	0.98
37:4E:577:LEU:O	43:5L:43:GLN:NE2	1.96	0.98
37:4E:581:LEU:HD22	43:5L:29:GLY:O	1.63	0.98
42:5H:137:TYR:CB	43:5L:49:ALA:N	2.04	0.98
1:0P:52:ASP:H	1:0P:58:GLN:HE21	1.10	0.98
37:4H:430:ASP:H	37:4H:433:LYS:HE3	1.29	0.98
37:4H:1082:LEU:HD23	38:4M:36:VAL:CG1	1.94	0.98
37:4H:1084:ARG:NH2	38:4M:40:LYS:HG2	1.78	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1138:VAL:CG2	38:4M:30:ALA:HB2	1.94	0.98
41:5A:141:ASN:C	43:5L:168:GLU:OE2	2.07	0.98
37:4E:590:LYS:N	43:5L:19:ARG:C	2.20	0.97
37:4G:1323:ILE:HG12	38:4L:26:GLU:CD	1.89	0.97
38:4K:29:LYS:O	38:4K:33:LYS:HG2	1.62	0.97
38:4K:38:VAL:HG13	38:4K:41:LYS:HD2	1.46	0.97
7:1O:2878:LEU:HD23	7:1O:3001:LYS:HG3	1.44	0.97
23:2Q:79:UNK:HA	12:3e:213:ARG:HH21	1.25	0.97
29:3E:1185:LYS:HZ3	13:5d:108:TYR:HE2	1.12	0.97
37:4E:583:GLU:CA	43:5L:36:TYR:N	2.27	0.97
38:4N:38:VAL:HG13	38:4N:41:LYS:HD2	1.46	0.97
17:2K:57:UNK:HA	13:Bf:84:ARG:HH22	1.27	0.97
37:4E:581:LEU:CB	43:5L:31:ASP:C	2.36	0.97
37:4G:974:VAL:HG12	37:4G:975:VAL:H	1.29	0.97
38:4J:68:LEU:HD12	38:4J:80:LEU:HB2	1.45	0.97
38:4M:29:LYS:O	38:4M:33:LYS:HG2	1.62	0.97
43:5I:84:HIS:HA	43:5I:87:ILE:HD12	1.42	0.97
43:5K:51:HIS:CD2	43:5K:146:TYR:HH	1.81	0.97
12:9e:60:VAL:HG22	12:Ae:281:TYR:HD1	1.29	0.97
1:0G:311:LEU:HD11	1:0G:351:HIS:CD2	2.00	0.97
37:4F:1083:ILE:HG12	37:4F:1352:PRO:HG3	1.47	0.97
38:4K:49:ILE:CG2	38:4N:72:ARG:HH21	1.75	0.97
24:2T:149:SER:OG	13:Dh:176:GLN:NE2	1.97	0.97
37:4E:581:LEU:CD1	43:5L:33:LEU:N	2.07	0.97
41:5A:120:TYR:CA	43:5L:168:GLU:HG3	1.92	0.97
42:5H:137:TYR:HA	43:5L:46:PRO:O	1.65	0.97
1:0W:311:LEU:HD11	1:0W:351:HIS:CD2	2.00	0.97
1:0V:108:ARG:HD2	1:0V:147:TRP:CD1	1.99	0.97
37:4E:582:GLN:O	37:4E:583:GLU:O	1.81	0.97
12:Da:58:ARG:HE	12:Da:86:ARG:HH12	1.09	0.97
1:0E:52:ASP:H	1:0E:58:GLN:HE21	1.12	0.97
30:3G:733:ARG:NH2	13:6b:155:GLU:OE2	1.98	0.97
37:4G:1187:THR:OG1	37:4G:1299:ARG:NH1	1.97	0.97
41:5A:164:GLY:HA3	43:5L:165:LEU:HD11	1.46	0.97
42:5H:135:ARG:CZ	43:5L:33:LEU:HD21	1.95	0.97
12:8e:278:SER:HA	12:8e:281:TYR:HB2	1.46	0.97
1:0V:219:ILE:HG13	1:0V:255:LYS:HD3	1.44	0.97
37:4E:588:PRO:HA	43:5L:17:SER:C	1.90	0.97
41:5A:141:ASN:C	43:5L:166:ALA:O	2.07	0.97
37:4F:1075:VAL:N	38:4N:38:VAL:CG1	2.27	0.97
37:4F:1082:LEU:HB2	38:4N:39:HIS:CA	1.95	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1308:TYR:HE2	37:4F:1314:LEU:HB2	1.27	0.97
37:4H:1083:ILE:HA	38:4M:35:ALA:CB	1.95	0.97
37:4E:581:LEU:CA	43:5L:32:LEU:C	2.38	0.97
37:4G:1082:LEU:CG	38:4L:36:VAL:CB	2.41	0.97
38:4J:29:LYS:O	38:4J:33:LYS:HG2	1.62	0.97
38:4J:38:VAL:HG13	38:4J:41:LYS:HD2	1.46	0.97
42:5H:140:TYR:HE1	43:5L:50:ILE:CG1	1.77	0.97
37:4E:589:PRO:CA	43:5L:20:HIS:H	1.77	0.96
37:4F:508:PRO:HB2	37:4F:510:HIS:NE2	1.80	0.96
37:4F:1082:LEU:HD23	38:4N:42:ILE:HB	1.45	0.96
38:4I:77:VAL:CG1	38:4L:84:LEU:HD13	1.94	0.96
42:5H:49:ILE:HG23	43:5L:144:TYR:CA	1.94	0.96
37:4E:584:ALA:HA	43:5L:36:TYR:CB	1.95	0.96
37:4F:1093:VAL:CG1	38:4N:33:LYS:HE3	1.93	0.96
37:4G:1323:ILE:CB	38:4L:26:GLU:HG3	1.95	0.96
37:4H:1091:VAL:CA	38:4M:33:LYS:C	2.38	0.96
38:4I:29:LYS:O	38:4I:33:LYS:HG2	1.62	0.96
1:0V:108:ARG:HD2	1:0V:147:TRP:HD1	1.26	0.96
32:3J:366:LYS:H	12:9a:423:GLN:HE22	1.11	0.96
37:4F:958:LEU:HD22	38:4N:46:ALA:H	1.28	0.96
37:4H:577:LEU:HD11	42:5F:135:ARG:HG2	1.46	0.96
37:4H:1322:ARG:O	38:4M:25:PRO:HB2	1.60	0.96
37:4H:1323:ILE:CB	38:4M:26:GLU:CD	2.37	0.96
38:4L:68:LEU:HD12	38:4L:80:LEU:HB2	1.45	0.96
38:4I:38:VAL:HG13	38:4I:41:LYS:HD2	1.46	0.96
2:1F:54:GLU:OE2	10:1S:358:ALA:N	1.96	0.96
30:3G:721:PHE:HE2	13:6b:112:LYS:HB3	1.30	0.96
37:4G:672:PHE:CD2	38:4I:39:HIS:HE1	1.83	0.96
37:4G:1093:VAL:HG22	37:4G:1094:ALA:C	1.90	0.96
43:5J:27:LEU:HG	43:5J:31:ASP:HB3	1.47	0.96
43:5L:27:LEU:HG	43:5L:31:ASP:HB3	1.47	0.96
1:0D:311:LEU:HD11	1:0D:351:HIS:CD2	2.00	0.96
37:4F:1322:ARG:CB	38:4N:25:PRO:HB2	1.94	0.96
37:4G:690:CYS:SG	38:4I:59:PRO:HD2	2.06	0.96
37:4G:1093:VAL:CG2	37:4G:1094:ALA:N	2.29	0.96
37:4E:582:GLN:HE22	43:5L:52:LEU:HD13	1.28	0.96
37:4F:1333:VAL:CA	38:4N:27:ALA:CB	2.44	0.96
37:4H:952:ASP:C	37:4H:954:SER:N	2.01	0.96
42:5H:77:VAL:HG11	42:5H:102:MET:HE2	1.47	0.96
42:5H:136:HIS:CB	43:5L:51:HIS:N	2.28	0.96
1:0Y:311:LEU:HD11	1:0Y:351:HIS:CD2	2.00	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4C:797:VAL:HB	35:4C:884:VAL:HG12	1.47	0.96
37:4E:582:GLN:O	37:4E:583:GLU:C	2.07	0.96
37:4G:856:MET:HB3	37:4G:861:ALA:HB2	1.45	0.96
37:4G:1082:LEU:CD2	38:4L:36:VAL:HB	1.94	0.96
43:5I:27:LEU:HG	43:5I:31:ASP:HB3	1.47	0.96
1:1B:396:LEU:HD22	1:1B:397:LYS:HZ2	1.31	0.96
37:4G:1333:VAL:HG22	38:4L:27:ALA:CB	1.96	0.96
37:4H:1341:ILE:HG23	37:4H:1350:ILE:CG1	1.95	0.96
38:4I:73:PRO:HD2	38:4I:76:PRO:HG3	1.48	0.96
38:4M:68:LEU:HD12	38:4M:80:LEU:HB2	1.45	0.96
47:6B:402:MET:HG3	3:6D:1011:GLU:CD	1.89	0.96
1:0F:311:LEU:HD11	1:0F:351:HIS:CD2	2.00	0.96
35:4C:395:LEU:HD12	35:4C:397:LEU:H	1.31	0.96
37:4F:1083:ILE:N	38:4N:38:VAL:CA	2.27	0.96
37:4F:1350:ILE:CG2	38:4N:34:ALA:CB	2.43	0.96
37:4G:1094:ALA:HB3	38:4L:36:VAL:HG11	0.97	0.96
37:4H:953:PRO:HB3	38:4M:44:LEU:O	1.66	0.96
1:0B:311:LEU:HD11	1:0B:351:HIS:CD2	2.00	0.95
34:3O:373:ALA:HB3	34:3Y:360:VAL:HG21	1.48	0.95
42:5H:91:TYR:CG	43:5L:48:THR:OG1	2.16	0.95
48:6E:1017:PRO:HG2	48:6E:1026:THR:HG23	1.48	0.95
30:3G:539:LEU:HD21	13:8h:340:THR:HG21	0.99	0.95
37:4H:1332:SER:O	37:4H:1333:VAL:HG13	1.44	0.95
38:4I:65:MET:O	38:4I:69:CYS:HB2	1.66	0.95
38:4K:76:PRO:HD2	38:4N:53:LEU:HD21	0.96	0.95
38:4M:73:PRO:HD2	38:4M:76:PRO:HG3	1.48	0.95
43:5K:27:LEU:HG	43:5K:31:ASP:HB3	1.47	0.95
12:Aa:58:ARG:HH21	12:Aa:86:ARG:HH12	1.05	0.95
1:0A:35:GLU:CD	47:6A:246:ARG:HH12	1.74	0.95
37:4E:571:ASP:O	37:4E:575:SER:OG	1.83	0.95
37:4E:583:GLU:O	37:4E:584:ALA:C	2.07	0.95
37:4F:1074:GLN:NE2	38:4N:44:LEU:HB3	1.81	0.95
37:4G:1084:ARG:N	38:4L:34:ALA:O	1.99	0.95
42:5H:91:TYR:HB3	43:5L:41:ASP:CB	1.95	0.95
48:6F:1017:PRO:HG2	48:6F:1026:THR:HG23	1.48	0.95
37:4E:581:LEU:HA	43:5L:32:LEU:CA	1.96	0.95
37:4F:1082:LEU:HD11	38:4N:43:ASN:HD22	1.18	0.95
38:4K:49:ILE:HG23	38:4N:72:ARG:CZ	1.96	0.95
38:4M:65:MET:O	38:4M:69:CYS:HB2	1.67	0.95
41:5A:164:GLY:HA3	43:5L:165:LEU:HD13	1.47	0.95
42:5H:143:VAL:HG12	42:5H:144:PHE:CD1	2.01	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5e:60:VAL:HG11	12:5e:86:ARG:CZ	1.95	0.95
1:0P:108:ARG:HD2	1:0P:147:TRP:HD1	1.26	0.95
1:0Y:311:LEU:HD11	1:0Y:351:HIS:HD2	1.29	0.95
37:4G:671:LEU:CD1	38:4I:40:LYS:HB2	1.97	0.95
37:4G:672:PHE:HD2	38:4I:39:HIS:CE1	1.84	0.95
38:4L:29:LYS:O	38:4L:33:LYS:HG2	1.62	0.95
38:4M:38:VAL:HG13	38:4M:41:LYS:HD2	1.46	0.95
42:5H:94:CYS:SG	43:5L:45:ASN:OD1	2.24	0.95
12:6g:242:PHE:HB3	12:6g:356:ILE:HD13	1.48	0.95
37:4G:1083:ILE:N	38:4L:38:VAL:HG23	1.81	0.95
37:4H:1084:ARG:HD3	38:4M:41:LYS:HE3	1.43	0.95
47:6B:354:MET:HG3	3:6D:265:TRP:CZ2	2.01	0.95
1:1A:311:LEU:HD11	1:1A:351:HIS:CD2	2.00	0.95
37:4G:1322:ARG:HB2	38:4L:25:PRO:HG2	1.48	0.95
37:4H:1187:THR:OG1	37:4H:1299:ARG:NH1	1.97	0.95
38:4K:65:MET:O	38:4K:69:CYS:HB2	1.67	0.95
42:5H:135:ARG:NE	43:5L:55:TYR:HB2	1.82	0.95
1:0L:219:ILE:HG13	1:0L:255:LYS:HD3	1.48	0.95
1:0N:219:ILE:HG13	1:0N:255:LYS:HD3	1.49	0.95
54:3f:501:GTP:O1B	12:3g:252:LYS:NZ	1.98	0.95
37:4F:1322:ARG:C	38:4N:26:GLU:OE1	2.09	0.95
37:4F:1083:ILE:O	38:4N:41:LYS:HE3	1.65	0.95
37:4F:1333:VAL:C	38:4N:27:ALA:HA	1.92	0.95
37:4H:1091:VAL:CB	38:4M:34:ALA:CA	2.43	0.95
37:4H:1333:VAL:CG2	38:4M:27:ALA:HB1	1.96	0.95
38:4N:73:PRO:HD2	38:4N:76:PRO:HG3	1.48	0.95
1:0S:311:LEU:HD11	1:0S:351:HIS:CD2	2.00	0.95
37:4E:575:SER:C	37:4E:577:LEU:N	2.17	0.95
37:4F:1322:ARG:NH1	37:4F:1711:PRO:HA	1.81	0.95
37:4F:1334:GLU:N	38:4N:30:ALA:H	1.65	0.95
37:4G:970:SER:CB	37:4G:1074:GLN:HG2	1.95	0.95
12:5a:282:ARG:HH21	12:5a:288:GLU:HG3	1.29	0.95
1:0E:219:ILE:HG13	1:0E:255:LYS:HD3	1.47	0.94
37:4F:671:LEU:HD13	38:4K:39:HIS:HB3	1.46	0.94
37:4F:1323:ILE:C	38:4N:26:GLU:CG	2.40	0.94
37:4F:1341:ILE:HB	38:4N:30:ALA:HB1	0.95	0.94
38:4J:65:MET:O	38:4J:69:CYS:HB2	1.67	0.94
41:5A:141:ASN:CA	43:5L:168:GLU:OE2	2.15	0.94
47:6B:409:ARG:HE	3:6D:1006:ASP:CG	1.75	0.94
1:1A:63:LEU:HD21	5:1L:594:PRO:HG3	1.49	0.94
37:4E:590:LYS:HA	43:5L:21:PRO:HD2	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:49:ILE:CG2	42:5H:49:ILE:CG1	2.44	0.94
12:8a:163:MET:HE1	12:8a:165:LEU:HB2	1.47	0.94
10:1R:109:ARG:NH2	12:9c:106:TYR:O	2.00	0.94
37:4E:581:LEU:CG	43:5L:33:LEU:H	1.79	0.94
37:4E:582:GLN:O	43:5L:37:THR:OG1	1.85	0.94
37:4E:585:VAL:HB	43:5L:10:LEU:CG	1.97	0.94
42:5H:137:TYR:CD1	43:5L:46:PRO:N	2.35	0.94
37:4E:582:GLN:HB2	43:5L:34:ALA:O	1.65	0.94
37:4F:1333:VAL:C	37:4F:1333:VAL:HA	1.91	0.94
38:4L:65:MET:O	38:4L:69:CYS:HB2	1.67	0.94
42:5H:94:CYS:N	43:5L:44:THR:C	2.24	0.94
42:5H:140:TYR:CE1	43:5L:50:ILE:HG13	2.02	0.94
30:3G:685:ARG:HD2	13:7d:339:ARG:HH22	1.33	0.94
37:4G:691:MET:CA	38:4I:59:PRO:HG2	1.97	0.94
37:4H:1082:LEU:HD23	38:4M:36:VAL:HG11	1.47	0.94
41:4Y:88:TYR:HA	41:4Y:103:PHE:HA	1.49	0.94
41:5A:140:GLU:HA	43:5L:168:GLU:O	1.67	0.94
42:5H:140:TYR:N	43:5L:145:SER:O	2.01	0.94
1:0C:52:ASP:H	1:0C:58:GLN:HE21	1.15	0.94
35:4C:568:ARG:NE	35:4C:572:GLU:O	2.00	0.94
37:4E:584:ALA:HA	43:5L:36:TYR:HB2	1.49	0.94
37:4F:1073:LEU:O	38:4N:41:LYS:CD	2.15	0.94
37:4F:1082:LEU:HA	38:4N:38:VAL:HB	1.49	0.94
38:4K:60:VAL:HG13	38:4K:87:HIS:HB2	1.50	0.94
38:4L:38:VAL:HG13	38:4L:41:LYS:HD2	1.46	0.94
42:5H:136:HIS:ND1	43:5L:50:ILE:O	1.99	0.94
42:5H:143:VAL:HG23	43:5L:147:THR:H	1.29	0.94
34:3U:39:GLU:HG3	34:3U:43:ARG:HE	1.31	0.94
37:4E:577:LEU:C	43:5L:42:TYR:CE1	2.45	0.94
37:4F:1083:ILE:N	38:4N:38:VAL:CB	2.31	0.94
37:4F:1350:ILE:CG2	38:4N:34:ALA:HB2	1.95	0.94
37:4H:510:HIS:CE1	38:4M:66:GLN:HB3	2.02	0.94
38:4L:73:PRO:HD2	38:4L:76:PRO:HG3	1.48	0.94
42:5H:84:THR:CB	42:5H:94:CYS:SG	2.55	0.94
1:0A:52:ASP:H	1:0A:58:GLN:HE21	1.13	0.94
1:0S:311:LEU:HD11	1:0S:351:HIS:HD2	1.29	0.94
1:0Z:52:ASP:H	1:0Z:58:GLN:HE21	1.15	0.94
3:1H:848:ARG:HA	47:6A:382:SER:HB3	1.48	0.94
10:1R:58:THR:H	13:Ad:339:ARG:HH21	1.16	0.94
24:2V:130:ALA:HB1	12:Dg:335:ASN:HB3	1.50	0.94
34:3P:104:ARG:HH12	34:3P:387:VAL:HG13	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:586:PHE:CD2	43:5L:10:LEU:HD13	2.02	0.94
37:4F:1075:VAL:N	38:4N:38:VAL:HG11	1.81	0.94
37:4F:1083:ILE:N	37:4F:1083:ILE:HA	1.82	0.94
37:4F:1083:ILE:N	38:4N:38:VAL:CG2	2.31	0.94
37:4G:669:GLU:HB2	37:4G:671:LEU:HD11	1.47	0.94
37:4G:672:PHE:HD2	38:4I:39:HIS:HE1	0.94	0.94
37:4G:1316:GLN:HG2	37:4G:1322:ARG:HG2	1.48	0.94
38:4L:68:LEU:HG	38:4L:76:PRO:HB3	1.50	0.94
41:4X:88:TYR:HA	41:4X:103:PHE:HA	1.49	0.94
41:5A:120:TYR:N	43:5L:168:GLU:CG	2.31	0.94
42:5H:137:TYR:CB	43:5L:46:PRO:O	2.13	0.94
42:5H:158:MET:CA	43:5L:158:HIS:CD2	2.51	0.94
6:1N:2595:VAL:HB	6:1N:2598:ARG:HG3	1.46	0.94
34:3R:248:PHE:HE2	34:3W:485:TYR:HA	1.33	0.94
12:3a:86:ARG:NE	12:4a:281:TYR:HA	1.82	0.94
37:4G:1074:GLN:OE1	38:4L:42:ILE:CG1	2.14	0.94
37:4G:1083:ILE:CA	38:4L:38:VAL:HG23	1.98	0.94
42:5H:137:TYR:C	42:5H:139:LEU:H	1.66	0.94
37:4H:1333:VAL:HG23	37:4H:1341:ILE:C	1.92	0.94
42:5H:137:TYR:HD1	43:5L:47:LYS:H	1.13	0.94
42:5H:158:MET:CA	43:5L:158:HIS:HD2	1.80	0.94
1:0O:311:LEU:HD11	1:0O:351:HIS:CD2	2.03	0.93
1:0Z:219:ILE:HG13	1:0Z:255:LYS:HD3	1.49	0.93
34:3U:104:ARG:HH12	34:3U:387:VAL:HG13	1.30	0.93
34:3V:506:GLU:OE1	34:3X:266:HIS:NE2	2.01	0.93
37:4F:1083:ILE:CG2	37:4F:1083:ILE:CG1	2.46	0.93
37:4H:1093:VAL:HG23	38:4M:35:ALA:CB	1.98	0.93
38:4M:60:VAL:HG13	38:4M:87:HIS:HB2	1.50	0.93
41:4Z:88:TYR:HA	41:4Z:103:PHE:HA	1.49	0.93
1:0B:65:LEU:HD21	1:0B:84:ILE:HG21	1.48	0.93
37:4E:584:ALA:CB	43:5L:36:TYR:CD2	2.38	0.93
38:4K:73:PRO:HD2	38:4K:76:PRO:HG3	1.48	0.93
38:4N:60:VAL:HG13	38:4N:87:HIS:HB2	1.50	0.93
38:4N:65:MET:O	38:4N:69:CYS:HB2	1.67	0.93
37:4E:575:SER:C	43:5L:30:ARG:C	2.37	0.93
37:4F:826:LEU:HD22	38:4N:82:TYR:OH	1.68	0.93
37:4G:1074:GLN:CD	38:4L:42:ILE:HG13	1.93	0.93
40:4V:372:VAL:HG21	40:4V:381:ILE:HA	1.48	0.93
12:Aa:50:TYR:HH	12:Aa:237:THR:HG1	1.00	0.93
1:0C:219:ILE:HG13	1:0C:255:LYS:HD3	1.49	0.93
1:0X:52:ASP:H	1:0X:58:GLN:HE21	1.13	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3Z:121:LEU:HD23	34:3Z:357:LEU:HD13	1.51	0.93
37:4G:1324:THR:OG1	37:4G:1332:SER:O	1.87	0.93
37:4H:1322:ARG:C	38:4M:25:PRO:CB	2.42	0.93
38:4K:30:ALA:C	38:4K:33:LYS:H	1.76	0.93
42:5H:140:TYR:HE1	43:5L:50:ILE:HD11	1.28	0.93
1:0R:52:ASP:H	1:0R:58:GLN:HE21	1.14	0.93
6:1N:1442:THR:HG23	6:1N:1445:GLY:H	1.33	0.93
37:4E:580:GLU:HB2	43:5L:27:LEU:HD11	1.50	0.93
37:4E:581:LEU:HB3	43:5L:34:ALA:H	1.09	0.93
37:4H:1350:ILE:HG12	38:4M:31:ALA:HB2	1.50	0.93
38:4I:68:LEU:HG	38:4I:76:PRO:HB3	1.50	0.93
38:4J:30:ALA:C	38:4J:33:LYS:H	1.76	0.93
38:4N:30:ALA:C	38:4N:33:LYS:H	1.76	0.93
37:4E:587:ALA:HB3	43:5L:18:ILE:HG23	1.50	0.93
37:4F:1083:ILE:CA	38:4N:38:VAL:HG23	1.98	0.93
37:4H:1091:VAL:O	38:4M:37:GLY:CA	2.16	0.93
42:5H:140:TYR:C	43:5L:47:LYS:HE2	1.94	0.93
54:8f:501:GTP:O1B	12:8g:252:LYS:NZ	2.00	0.93
10:1S:383:GLY:O	13:Bf:176:GLN:NE2	2.00	0.93
31:3I:437:MET:HE1	31:3I:448:LEU:HG	1.50	0.93
37:4F:1082:LEU:CG	37:4F:1082:LEU:CD1	2.47	0.93
37:4H:1074:GLN:HE22	38:4M:39:HIS:HD2	0.97	0.93
37:4H:1323:ILE:CB	37:4H:1323:ILE:CG2	2.47	0.93
38:4J:73:PRO:HD2	38:4J:76:PRO:HG3	1.48	0.93
54:4b:501:GTP:O1B	12:4c:252:LYS:NZ	2.01	0.93
42:5H:135:ARG:CG	43:5L:55:TYR:N	2.32	0.93
48:6E:994:GLY:HA3	48:6E:1044:THR:HG23	1.48	0.93
6:1N:2121:ARG:HB3	9:1Q:817:GLY:HA2	1.50	0.93
37:4G:1083:ILE:H	38:4L:38:VAL:HG23	1.34	0.93
38:4I:72:ARG:NE	38:4L:49:ILE:HG21	1.84	0.93
38:4J:60:VAL:HG13	38:4J:87:HIS:HB2	1.50	0.93
1:0N:52:ASP:H	1:0N:58:GLN:HE21	1.10	0.93
4:1J:83:ASP:OD1	47:6B:2:SER:N	2.02	0.93
37:4F:1094:ALA:C	38:4N:36:VAL:HG11	1.93	0.93
37:4G:1093:VAL:CG1	37:4G:1094:ALA:N	2.30	0.93
38:4K:68:LEU:HG	38:4K:76:PRO:HB3	1.50	0.93
47:6B:981:LYS:HA	47:6B:984:ILE:HG12	1.48	0.93
12:Dc:285:THR:HG22	12:Dc:287:PRO:HD2	1.51	0.93
1:0E:108:ARG:HD2	1:0E:147:TRP:CD1	2.04	0.93
1:1B:127:LEU:HD23	1:1B:130:LEU:HD12	1.51	0.93
10:1R:345:SER:HB2	12:Ac:407:GLU:HG2	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:4D:175:PRO:HD3	36:4D:222:TYR:OH	1.68	0.93
37:4E:574:LEU:O	37:4E:577:LEU:O	1.86	0.93
37:4E:588:PRO:HB3	43:5L:32:LEU:HD23	1.50	0.93
38:4M:68:LEU:HG	38:4M:76:PRO:HB3	1.50	0.93
3:1H:988:TRP:HA	3:1H:991:ILE:HD12	1.50	0.92
37:4G:1331:TRP:HZ3	37:4G:1345:PRO:HA	1.27	0.92
37:4G:1335:MET:HA	38:4L:28:VAL:HG13	1.51	0.92
38:4M:30:ALA:C	38:4M:33:LYS:H	1.76	0.92
47:6A:981:LYS:HA	47:6A:984:ILE:HG12	1.48	0.92
51:6N:1293:ALA:HB3	51:6N:1295:LYS:HE2	1.51	0.92
12:Ce:50:TYR:OH	12:Ce:237:THR:HG21	1.68	0.92
37:4E:581:LEU:HD12	43:5L:33:LEU:H	0.76	0.92
37:4E:587:ALA:CA	43:5L:18:ILE:CG1	2.47	0.92
37:4E:589:PRO:HD2	43:5L:20:HIS:O	1.69	0.92
37:4F:972:PHE:CE1	37:4F:1074:GLN:OE1	2.22	0.92
37:4F:1081:HIS:CB	37:4F:1338:PHE:HZ	1.82	0.92
37:4G:1333:VAL:HG22	38:4L:27:ALA:HB3	1.48	0.92
38:4L:30:ALA:C	38:4L:33:LYS:H	1.76	0.92
40:4T:372:VAL:HG21	40:4T:381:ILE:HA	1.48	0.92
42:5H:41:TYR:O	42:5H:48:ALA:HB2	1.69	0.92
48:6F:994:GLY:HA3	48:6F:1044:THR:HG23	1.48	0.92
34:3U:295:GLN:NE2	34:3U:433:TYR:OH	2.03	0.92
37:4E:575:SER:N	43:5L:30:ARG:HD3	1.82	0.92
37:4G:1082:LEU:C	38:4L:35:ALA:O	2.12	0.92
37:4H:1091:VAL:CB	38:4M:34:ALA:HA	2.00	0.92
37:4H:1136:ARG:HB2	37:4H:1146:SER:HA	1.50	0.92
42:5H:91:TYR:HA	43:5L:45:ASN:CB	1.99	0.92
42:5H:158:MET:CB	43:5L:158:HIS:CD2	2.53	0.92
12:5a:256:ASN:HB3	12:5a:350:LYS:HG3	1.50	0.92
3:1H:983:ARG:HB3	47:6A:392:LEU:HD21	1.50	0.92
34:3P:295:GLN:NE2	34:3P:433:TYR:OH	2.03	0.92
37:4E:574:LEU:HA	43:5L:30:ARG:HH21	1.34	0.92
42:5E:138:ARG:HH12	43:5I:30:ARG:HH22	1.14	0.92
42:5H:85:CYS:HB3	43:5L:46:PRO:HG2	1.48	0.92
42:5H:135:ARG:C	43:5L:52:LEU:N	2.23	0.92
43:5K:112:PRO:O	44:5U:111:HIS:HD2	1.52	0.92
51:6M:1293:ALA:HB3	51:6M:1295:LYS:HE2	1.51	0.92
54:Bf:501:GTP:O1B	12:Bg:252:LYS:NZ	2.01	0.92
3:1H:197:SER:OG	47:6A:285:VAL:O	1.87	0.92
34:3O:125:ARG:HD2	34:3O:361:LEU:HD12	1.49	0.92
37:4G:1074:GLN:N	38:4L:41:LYS:NZ	2.17	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4I:60:VAL:HG13	38:4I:87:HIS:HB2	1.50	0.92
42:5H:158:MET:HB2	43:5L:159:PRO:HD2	1.51	0.92
1:0C:221:GLN:HA	1:0C:226:LYS:HE2	1.49	0.92
1:1B:216:PRO:HA	1:1B:219:ILE:HD12	1.48	0.92
12:1c:91:VAL:HG11	12:1c:116:VAL:HG22	1.50	0.92
30:3F:452:ASN:HB3	12:7c:402:GLY:HA3	1.51	0.92
37:4E:581:LEU:HB3	43:5L:34:ALA:CA	1.99	0.92
37:4G:1335:MET:HE2	37:4G:1335:MET:H	0.77	0.92
38:4J:68:LEU:HG	38:4J:76:PRO:HB3	1.50	0.92
42:5H:45:ALA:O	42:5H:49:ILE:HB	1.67	0.92
1:0U:311:LEU:HD11	1:0U:351:HIS:CD2	2.03	0.92
2:1E:18:LEU:HD22	2:1G:55:ALA:HB2	1.50	0.92
37:4F:1169:VAL:HG13	37:4F:1195:ARG:HH22	1.33	0.92
37:4G:1082:LEU:HD12	38:4L:39:HIS:H	1.35	0.92
37:4G:1169:VAL:HG13	37:4G:1195:ARG:HH22	1.33	0.92
37:4G:1333:VAL:HG21	38:4L:27:ALA:N	1.82	0.92
38:4J:25:PRO:HB3	42:5F:96:ALA:HB1	1.48	0.92
12:Be:86:ARG:HH11	12:Ce:281:TYR:HB2	1.33	0.92
1:0H:108:ARG:HD2	1:0H:147:TRP:HD1	1.33	0.92
1:0T:52:ASP:H	1:0T:58:GLN:HE21	1.17	0.92
37:4E:576:ALA:CB	43:5L:30:ARG:HG2	1.99	0.92
37:4E:580:GLU:N	43:5L:35:LYS:HE2	1.85	0.92
37:4G:671:LEU:HD22	38:4I:40:LYS:HA	0.94	0.92
37:4G:1094:ALA:H	38:4L:36:VAL:HG13	0.76	0.92
37:4H:1332:SER:HB2	37:4H:1342:LEU:CD2	1.99	0.92
40:4U:372:VAL:HG21	40:4U:381:ILE:HA	1.48	0.92
42:5H:132:GLY:HA2	43:5L:50:ILE:HG23	1.49	0.92
1:0R:37:LEU:HD23	1:0R:68:LEU:HD21	1.52	0.92
34:3Q:276:GLU:O	34:3Q:452:HIS:NE2	2.03	0.92
37:4F:1081:HIS:HB3	37:4F:1338:PHE:HZ	1.33	0.92
37:4F:1082:LEU:CD1	38:4N:39:HIS:CG	2.53	0.92
37:4G:970:SER:HB2	37:4G:1074:GLN:NE2	1.85	0.92
41:5A:141:ASN:CA	43:5L:168:GLU:CD	2.43	0.92
13:5f:73:THR:OG1	12:5g:247:ASN:ND2	2.03	0.92
12:8c:86:ARG:HH22	12:9c:282:ARG:HA	1.34	0.92
14:2G:106:TRP:HE1	12:Be:77:ARG:HD2	1.34	0.92
13:2b:72:PRO:HB3	12:2c:1:MET:HE2	1.48	0.92
37:4F:1333:VAL:C	38:4N:27:ALA:C	2.38	0.92
37:4H:1082:LEU:HD22	37:4H:1094:ALA:HB2	1.52	0.92
1:0T:219:ILE:HG13	1:0T:255:LYS:HD3	1.51	0.91
3:1H:206:ASP:HB2	47:6A:291:GLN:HA	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:3J:66:LEU:HD11	32:3J:134:ILE:HG21	1.51	0.91
34:3P:97:LEU:HA	34:3P:100:ILE:HD12	1.52	0.91
37:4E:570:LEU:O	37:4E:574:LEU:CB	2.17	0.91
37:4E:580:GLU:HA	43:5L:35:LYS:CB	2.00	0.91
37:4H:1138:VAL:HG13	37:4H:1139:THR:N	1.85	0.91
42:5H:135:ARG:O	43:5L:48:THR:O	1.87	0.91
54:1f:501:GTP:O1B	12:1g:252:LYS:NZ	2.03	0.91
37:4E:587:ALA:C	43:5L:18:ILE:CG1	2.43	0.91
37:4F:1081:HIS:CG	37:4F:1338:PHE:CZ	2.57	0.91
37:4G:1083:ILE:N	38:4L:35:ALA:O	2.03	0.91
41:5A:139:GLU:O	41:5A:142:ARG:CB	2.17	0.91
12:5c:91:VAL:HG11	12:5c:116:VAL:HG12	1.52	0.91
54:Bb:501:GTP:O1B	12:Bc:252:LYS:NZ	2.02	0.91
54:1b:501:GTP:O1B	12:1c:252:LYS:NZ	2.02	0.91
31:3I:467:ARG:O	13:8f:430:LYS:HE3	1.70	0.91
37:4G:1073:LEU:O	38:4L:41:LYS:NZ	2.01	0.91
37:4G:1082:LEU:HG	38:4L:36:VAL:CG1	2.00	0.91
37:4H:1093:VAL:CG2	38:4M:35:ALA:HB3	2.00	0.91
37:4H:1317:ASP:HB2	37:4H:1321:THR:HG23	1.51	0.91
12:4a:163:MET:HE1	12:4a:165:LEU:HB2	1.51	0.91
42:5H:93:GLU:H	43:5L:45:ASN:HD21	1.18	0.91
42:5H:146:THR:O	43:5L:148:ASN:ND2	2.04	0.91
42:5H:158:MET:O	43:5L:158:HIS:CD2	2.23	0.91
47:6B:205:ARG:NH2	12:Bg:407:GLU:OE2	2.03	0.91
12:6e:248:ALA:HA	12:6e:252:LYS:HD3	1.52	0.91
34:3Q:125:ARG:HD2	34:3Q:361:LEU:HD12	1.50	0.91
37:4F:1335:MET:HB2	37:4F:1338:PHE:H	1.35	0.91
37:4G:1083:ILE:HG23	38:4L:34:ALA:HB1	1.52	0.91
37:4G:1145:VAL:HG22	37:4G:1155:VAL:HG22	1.52	0.91
12:Aa:87:PRO:HD3	12:Ba:281:TYR:CD1	2.05	0.91
37:4E:581:LEU:C	43:5L:34:ALA:N	2.24	0.91
37:4F:960:LEU:HD13	38:4N:46:ALA:HB2	1.48	0.91
37:4F:1333:VAL:HG12	38:4N:30:ALA:HA	1.53	0.91
1:0V:350:ASP:HA	1:0V:353:LYS:HG3	1.51	0.91
34:4A:377:ARG:NH1	37:4F:894:ALA:O	2.04	0.91
37:4G:538:GLU:OE1	38:4I:50:ARG:NH2	2.04	0.91
38:4I:30:ALA:C	38:4I:33:LYS:H	1.76	0.91
47:6B:285:VAL:O	3:6D:197:SER:OG	1.89	0.91
3:6D:679:GLU:HB3	3:6D:683:ARG:HH12	1.35	0.91
3:1H:988:TRP:CE3	3:1H:1010:LEU:HG	2.06	0.91
37:4E:1110:GLY:HA2	43:5L:140:LYS:CD	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1074:GLN:CA	38:4M:38:VAL:HG21	2.00	0.91
37:4H:1324:THR:H	38:4M:25:PRO:HD2	1.33	0.91
37:4H:1331:TRP:HD1	38:4M:27:ALA:HB2	1.28	0.91
42:5H:136:HIS:C	43:5L:47:LYS:O	2.14	0.91
37:4F:1082:LEU:H	38:4N:39:HIS:CB	1.84	0.91
37:4F:1333:VAL:HA	38:4N:30:ALA:N	1.86	0.91
37:4G:1093:VAL:CB	38:4L:32:GLU:O	2.18	0.91
48:6F:353:ILE:HG13	48:6F:354:PRO:HD3	1.53	0.91
12:6e:86:ARG:HH22	12:7e:281:TYR:C	1.77	0.91
12:Cg:91:VAL:HG11	12:Cg:116:VAL:HG12	1.53	0.91
37:4E:583:GLU:CA	43:5L:36:TYR:C	2.40	0.91
37:4G:1093:VAL:HG22	38:4L:36:VAL:HG13	1.49	0.91
37:4H:1315:VAL:O	37:4H:1322:ARG:HA	1.70	0.91
37:4H:1333:VAL:HG21	38:4M:27:ALA:CB	2.00	0.91
12:4e:86:ARG:HD2	12:5e:281:TYR:HD1	1.36	0.91
42:5H:135:ARG:HD3	43:5L:56:VAL:HB	1.49	0.91
43:5K:113:PRO:HG3	44:5U:112:VAL:HG13	1.53	0.91
37:4E:589:PRO:HB2	43:5L:20:HIS:H	0.75	0.90
37:4H:671:LEU:HD13	38:4J:39:HIS:HB3	1.53	0.90
37:4H:1137:ALA:CA	38:4M:33:LYS:HE2	2.00	0.90
38:4L:60:VAL:HG13	38:4L:87:HIS:HB2	1.50	0.90
42:5H:56:TYR:HE2	43:5L:141:LEU:HD22	1.04	0.90
42:5H:95:GLU:HB3	43:5L:42:TYR:O	1.71	0.90
48:6E:353:ILE:HG13	48:6E:354:PRO:HD3	1.53	0.90
1:0T:320:ILE:HG22	1:0T:327:LEU:HB3	1.52	0.90
37:4E:576:ALA:N	43:5L:30:ARG:CG	2.34	0.90
37:4E:581:LEU:CD1	43:5L:29:GLY:O	2.18	0.90
37:4F:960:LEU:HD11	37:4F:968:VAL:CG1	2.01	0.90
37:4F:1082:LEU:HB2	38:4N:39:HIS:N	1.85	0.90
37:4G:1084:ARG:N	38:4L:37:GLY:HA3	1.86	0.90
38:4I:77:VAL:HG22	38:4L:61:LEU:CD2	2.02	0.90
38:4N:30:ALA:O	38:4N:33:LYS:N	2.04	0.90
1:0Y:65:LEU:HD21	1:0Y:84:ILE:HG21	1.50	0.90
34:3R:252:GLU:HG3	34:3W:488:ARG:HH21	1.35	0.90
34:3U:370:GLU:HG2	34:3Z:360:VAL:HB	1.52	0.90
37:4E:586:PHE:CD2	43:5L:10:LEU:HD22	2.07	0.90
37:4H:537:LEU:HD21	38:4J:58:VAL:HG11	1.53	0.90
38:4M:30:ALA:O	38:4M:33:LYS:N	2.04	0.90
38:4N:68:LEU:HG	38:4N:76:PRO:HB3	1.50	0.90
42:5H:92:THR:O	43:5L:44:THR:HG23	1.70	0.90
42:5H:93:GLU:O	43:5L:44:THR:OG1	1.88	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:65:PRO:HB2	47:6A:129:ARG:HH11	1.33	0.90
37:4E:578:ASP:N	37:4E:578:ASP:CB	2.34	0.90
37:4F:1315:VAL:HG23	37:4F:1323:ILE:O	1.72	0.90
37:4F:1323:ILE:HA	37:4F:1323:ILE:C	1.96	0.90
3:1H:1010:LEU:HD13	47:6A:402:MET:HB2	1.53	0.90
37:4F:1082:LEU:H	38:4N:39:HIS:HB2	1.36	0.90
38:4J:30:ALA:O	38:4J:33:LYS:N	2.04	0.90
38:4N:63:GLN:HB3	38:4N:83:TYR:CE1	2.07	0.90
12:7e:86:ARG:HD3	12:8e:281:TYR:HD1	1.36	0.90
37:4E:578:ASP:N	43:5L:42:TYR:CE1	2.40	0.90
37:4F:1073:LEU:C	38:4N:41:LYS:HD3	1.97	0.90
37:4F:1082:LEU:HD12	38:4N:39:HIS:ND1	1.86	0.90
38:4I:72:ARG:HG3	38:4L:49:ILE:HG21	1.45	0.90
44:5S:41:ARG:HH22	44:5S:49:GLU:HG2	1.36	0.90
47:6B:402:MET:CE	3:6D:1011:GLU:HB3	2.02	0.90
13:Ab:88:HIS:CD2	13:Bb:283:HIS:HB3	2.07	0.90
37:4F:1082:LEU:HB2	38:4N:39:HIS:HA	1.51	0.90
37:4G:1313:VAL:O	37:4G:1324:THR:HA	1.72	0.90
37:4H:953:PRO:CB	38:4M:44:LEU:O	2.20	0.90
38:4I:77:VAL:HG21	38:4L:84:LEU:HD22	1.54	0.90
41:5A:120:TYR:N	43:5L:168:GLU:HG3	1.86	0.90
12:1e:362:LYS:HE3	14:2F:22:PRO:HA	1.54	0.90
34:3T:97:LEU:HA	34:3T:100:ILE:HD12	1.53	0.90
37:4E:576:ALA:H	43:5L:30:ARG:HG2	1.37	0.90
37:4E:581:LEU:O	43:5L:36:TYR:N	1.99	0.90
37:4E:590:LYS:N	43:5L:20:HIS:N	2.20	0.90
37:4G:1335:MET:SD	37:4G:1335:MET:CB	2.59	0.90
37:4G:1335:MET:HA	38:4L:28:VAL:CA	2.02	0.90
37:4H:1322:ARG:C	38:4M:25:PRO:HB2	1.95	0.90
47:6B:65:PRO:HB2	47:6B:129:ARG:HH11	1.33	0.90
1:1B:393:SER:HA	1:1B:397:LYS:HD3	1.54	0.90
10:1S:423:PRO:HB2	12:Be:216:LYS:HB3	1.53	0.90
30:3F:386:MET:HG3	13:8f:339:ARG:HH12	1.37	0.90
37:4E:582:GLN:C	43:5L:38:GLY:N	2.30	0.90
37:4E:582:GLN:NE2	43:5L:52:LEU:HD13	1.87	0.90
37:4G:672:PHE:O	38:4I:39:HIS:ND1	2.03	0.90
38:4L:63:GLN:HB3	38:4L:83:TYR:CE1	2.07	0.90
1:0H:24:VAL:HA	1:0H:27:MET:HE2	1.53	0.90
1:0N:108:ARG:HD2	1:0N:147:TRP:HD1	1.37	0.90
3:1H:265:TRP:CZ2	47:6A:350:ARG:HG3	2.07	0.90
37:4F:582:GLN:O	43:5K:30:ARG:HB2	1.72	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1322:ARG:CB	38:4N:25:PRO:CB	2.49	0.90
37:4H:1084:ARG:HD3	38:4M:41:LYS:HE2	1.54	0.90
32:3K:191:VAL:HG22	32:3K:208:MET:HG2	1.54	0.89
34:3O:276:GLU:O	34:3O:452:HIS:NE2	2.05	0.89
37:4F:1315:VAL:H	38:4N:26:GLU:CD	1.81	0.89
37:4H:1082:LEU:HD12	38:4M:39:HIS:HB3	1.49	0.89
38:4I:30:ALA:O	38:4I:33:LYS:N	2.04	0.89
12:Aa:86:ARG:HD3	12:Ba:281:TYR:HD1	1.37	0.89
10:1R:342:LEU:HD21	12:Ac:194:GLU:HG3	1.55	0.89
10:1R:391:SER:H	10:1R:394:ARG:NH2	1.70	0.89
30:3F:374:ARG:NH1	13:8f:382:THR:O	2.04	0.89
37:4E:583:GLU:CB	43:5L:35:LYS:HA	2.01	0.89
37:4G:1082:LEU:HG	38:4L:36:VAL:HG12	1.53	0.89
37:4H:935:ARG:NH2	38:4J:72:ARG:O	2.05	0.89
13:4b:221:ARG:HG2	12:4c:325:GLU:OE2	1.72	0.89
41:5A:21:GLY:H	43:5L:191:LYS:H	1.18	0.89
42:5H:92:THR:N	43:5L:41:ASP:O	2.03	0.89
42:5H:134:LEU:HA	43:5L:49:ALA:HB1	1.51	0.89
1:0A:249:GLY:HA3	47:6A:337:ARG:HH12	1.37	0.89
37:4E:1108:PHE:CE1	43:5L:137:ARG:HG3	2.06	0.89
38:4K:30:ALA:O	38:4K:33:LYS:N	2.04	0.89
42:5H:133:LEU:H	43:5L:50:ILE:HD13	1.37	0.89
42:5H:133:LEU:N	43:5L:50:ILE:HD13	1.87	0.89
42:5H:137:TYR:O	42:5H:139:LEU:N	2.05	0.89
42:5H:139:LEU:CD2	43:5L:146:TYR:HB2	2.01	0.89
1:0P:24:VAL:HA	1:0P:27:MET:HE2	1.52	0.89
1:0T:221:GLN:HA	1:0T:226:LYS:HE2	1.53	0.89
1:1B:142:LYS:HE2	1:1B:183:LEU:HD21	1.55	0.89
37:4G:910:LEU:HD12	37:4G:915:SER:HB2	1.52	0.89
37:4H:1316:GLN:HA	37:4H:1322:ARG:H	1.37	0.89
12:4a:60:VAL:HG11	12:4a:86:ARG:HE	1.37	0.89
42:5E:139:LEU:CD2	43:5I:141:LEU:HD21	2.02	0.89
42:5H:91:TYR:CG	43:5L:42:TYR:HA	2.08	0.89
49:6J:358:GLN:HE22	49:6J:436:GLN:HE22	1.21	0.89
54:9f:501:GTP:O1B	12:9g:252:LYS:NZ	2.05	0.89
12:Ae:87:PRO:HD3	12:Be:281:TYR:CD1	2.07	0.89
10:1S:140:VAL:HB	10:1S:143:LEU:HG	1.54	0.89
29:3E:1154:ARG:HH22	12:5e:386:THR:HA	1.38	0.89
37:4G:1338:PHE:HE1	38:4L:35:ALA:CB	1.86	0.89
37:4H:1074:GLN:HB2	38:4M:38:VAL:CG1	2.01	0.89
37:4H:1084:ARG:CG	38:4M:37:GLY:HA3	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1136:ARG:CG	38:4M:33:LYS:HZ1	1.85	0.89
54:4f:501:GTP:O1B	12:4g:252:LYS:NZ	2.04	0.89
1:0E:147:TRP:HB2	1:0E:186:ILE:HD11	1.54	0.89
1:0L:350:ASP:HA	1:0L:353:LYS:HG3	1.54	0.89
2:1G:82:LEU:HD11	2:1G:118:PRO:HB2	1.52	0.89
14:2F:122:ALA:HB1	14:2F:125:THR:HG22	1.53	0.89
37:4G:969:LEU:CA	37:4G:1074:GLN:HB2	2.02	0.89
37:4G:1302:ASN:HA	43:5I:122:MET:HE1	1.53	0.89
37:4G:1319:ASP:CB	38:4L:29:LYS:HZ1	1.85	0.89
37:4H:431:ALA:HB1	38:4M:83:TYR:HA	1.55	0.89
37:4H:514:TYR:CE2	37:4H:538:GLU:HB3	2.07	0.89
37:4H:1136:ARG:CB	37:4H:1146:SER:HA	2.03	0.89
38:4L:30:ALA:O	38:4L:33:LYS:N	2.04	0.89
43:5L:133:ASP:O	43:5L:137:ARG:NE	2.05	0.89
12:Da:176:SER:OG	13:Db:349:THR:HB	1.72	0.89
1:0J:142:LYS:HE2	1:0J:183:LEU:HD21	1.55	0.89
3:1H:952:GLY:HA3	47:6A:384:GLU:HB3	1.55	0.89
37:4H:1323:ILE:HB	38:4M:26:GLU:CG	2.03	0.89
42:5H:91:TYR:C	43:5L:45:ASN:HB2	1.97	0.89
43:5J:133:ASP:O	43:5J:137:ARG:NE	2.05	0.89
37:4E:1307:ALA:HA	37:4E:1313:VAL:HG22	1.54	0.89
37:4F:1094:ALA:O	38:4N:36:VAL:HG11	1.72	0.89
37:4G:1075:VAL:C	38:4L:38:VAL:HG21	1.98	0.89
37:4G:1082:LEU:HD23	37:4G:1101:LEU:CD2	2.03	0.89
37:4H:1092:LEU:O	38:4M:36:VAL:CG1	2.19	0.89
38:4J:53:LEU:HD23	38:4M:72:ARG:HB3	1.51	0.89
43:5K:133:ASP:O	43:5K:137:ARG:NE	2.05	0.89
49:6I:358:GLN:HE22	49:6I:436:GLN:HE22	1.21	0.89
12:9e:248:ALA:HA	12:9e:252:LYS:HD3	1.51	0.89
14:2G:122:ALA:HB1	14:2G:125:THR:HG22	1.53	0.89
37:4F:1321:THR:HG23	37:4F:1322:ARG:H	0.99	0.89
37:4G:1332:SER:O	37:4G:1333:VAL:HB	1.71	0.89
37:4H:1093:VAL:HG23	38:4M:35:ALA:HB3	1.53	0.89
38:4M:63:GLN:HB3	38:4M:83:TYR:CE1	2.07	0.89
41:5A:21:GLY:CA	43:5L:187:GLU:O	2.21	0.89
42:5H:140:TYR:CE1	43:5L:50:ILE:HD11	2.07	0.89
43:5I:133:ASP:O	43:5I:137:ARG:NE	2.05	0.89
49:6H:252:GLU:OE2	49:6H:438:LYS:NZ	2.06	0.89
12:8g:91:VAL:HG11	12:8g:116:VAL:HG12	1.54	0.89
2:1G:207:LYS:HG2	2:1G:211:HIS:HE1	1.38	0.89
2:1G:391:LYS:HE2	2:1G:425:ALA:HB1	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:3F:301:VAL:HG12	13:6f:264:ARG:CB	2.03	0.89
37:4E:1123:LEU:HD23	43:5L:133:ASP:HA	1.55	0.89
37:4H:1082:LEU:CD2	37:4H:1094:ALA:HB2	2.03	0.89
38:4K:63:GLN:HB3	38:4K:83:TYR:CE1	2.07	0.89
42:5H:135:ARG:CD	43:5L:56:VAL:N	2.35	0.89
37:4E:574:LEU:HD23	43:5L:30:ARG:HH21	1.37	0.88
37:4F:1093:VAL:HG21	38:4N:33:LYS:O	1.73	0.88
1:0A:37:LEU:HD23	1:0A:68:LEU:HD21	1.53	0.88
36:4D:91:VAL:HG11	36:4D:101:ILE:HG13	1.54	0.88
37:4E:589:PRO:CG	43:5L:20:HIS:H	1.86	0.88
37:4G:1074:GLN:CA	38:4L:41:LYS:NZ	2.30	0.88
37:4H:1323:ILE:CG2	38:4M:26:GLU:HG2	2.04	0.88
41:5A:120:TYR:CA	43:5L:168:GLU:OE1	2.21	0.88
37:4E:581:LEU:HB2	43:5L:32:LEU:N	1.88	0.88
37:4E:581:LEU:HG	43:5L:34:ALA:N	1.87	0.88
37:4E:585:VAL:O	43:5L:10:LEU:HD11	1.73	0.88
38:4I:63:GLN:HB3	38:4I:83:TYR:CE1	2.07	0.88
42:5H:91:TYR:CD1	43:5L:48:THR:OG1	2.26	0.88
42:5H:91:TYR:HD2	43:5L:40:ASN:O	1.56	0.88
43:5L:52:LEU:O	43:5L:55:TYR:HB2	1.73	0.88
1:0E:253:PHE:HZ	1:0E:278:VAL:HG11	1.38	0.88
37:4F:1340:PRO:CA	38:4N:31:ALA:HB3	2.04	0.88
37:4H:1074:GLN:HA	38:4M:38:VAL:CG2	2.02	0.88
37:4H:1333:VAL:CG2	37:4H:1333:VAL:HB	2.01	0.88
42:5E:143:VAL:HG21	43:5I:141:LEU:CD1	2.03	0.88
49:6G:252:GLU:OE2	49:6G:438:LYS:NZ	2.06	0.88
1:1B:386:LEU:HB3	1:1B:396:LEU:HD21	1.54	0.88
10:1R:334:PRO:CG	13:Ab:409:VAL:HG21	2.03	0.88
13:3h:196:GLU:O	39:4Q:173:ALA:HB3	1.73	0.88
37:4E:583:GLU:C	43:5L:36:TYR:CA	2.42	0.88
37:4H:1085:MET:HE3	37:4H:1091:VAL:HG12	1.52	0.88
37:4H:1323:ILE:CB	38:4M:26:GLU:HG2	2.03	0.88
43:5I:51:HIS:CD2	43:5I:146:TYR:HH	1.92	0.88
12:4e:247:ASN:O	12:4e:252:LYS:NZ	2.07	0.88
42:5H:135:ARG:HB2	43:5L:53:ASP:H	1.38	0.88
5:1L:243:GLY:O	5:1L:245:VAL:N	2.07	0.88
5:1M:243:GLY:O	5:1M:245:VAL:N	2.07	0.88
37:4F:972:PHE:CZ	37:4F:1072:ALA:HB3	2.08	0.88
37:4H:1332:SER:O	37:4H:1333:VAL:CG1	2.20	0.88
38:4J:63:GLN:HB3	38:4J:83:TYR:CE1	2.07	0.88
47:6B:347:ARG:HA	47:6B:350:ARG:HE	1.38	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2V:141:ARG:HG2	13:Df:299:ALA:HB3	1.55	0.88
37:4F:974:VAL:HG12	37:4F:975:VAL:H	1.36	0.88
41:5A:120:TYR:O	41:5A:141:ASN:HA	1.72	0.88
13:8f:401:LYS:NZ	12:8g:429:SER:O	2.07	0.88
12:Aa:50:TYR:OH	12:Aa:237:THR:OG1	1.86	0.88
10:1R:432:THR:HG21	12:Aa:77:ARG:HG2	1.54	0.88
34:3P:121:LEU:HD13	34:3P:357:LEU:HG	1.54	0.88
35:4C:1084:ARG:NH1	37:4E:715:PHE:O	2.07	0.88
37:4E:578:ASP:H	43:5L:42:TYR:HH	1.18	0.88
37:4F:514:TYR:CE2	37:4F:538:GLU:HB3	2.08	0.88
37:4G:1084:ARG:CG	38:4L:37:GLY:HA2	2.03	0.88
37:4H:1323:ILE:HA	38:4M:25:PRO:HB2	1.56	0.88
37:4H:1323:ILE:HD13	38:4M:26:GLU:HA	1.52	0.88
41:5A:142:ARG:N	43:5L:167:PRO:HA	1.89	0.88
42:5H:135:ARG:NH1	43:5L:56:VAL:HG23	1.89	0.88
47:6B:566:LEU:HD12	47:6B:1158:ARG:HH12	1.37	0.88
49:6J:252:GLU:OE2	49:6J:438:LYS:NZ	2.06	0.88
12:Ae:86:ARG:HD3	12:Be:281:TYR:HD1	1.39	0.88
24:2U:140:PRO:HB2	13:Cd:117:LEU:HD11	1.56	0.88
25:2X:26:UNK:O	13:2f:264:ARG:NH1	2.07	0.88
37:4F:1093:VAL:HG12	37:4F:1136:ARG:C	1.99	0.88
42:5H:91:TYR:CD1	43:5L:42:TYR:HB3	2.09	0.88
42:5H:91:TYR:O	43:5L:45:ASN:HB2	1.74	0.88
49:6I:252:GLU:OE2	49:6I:438:LYS:NZ	2.06	0.88
1:0H:219:ILE:HG13	1:0H:255:LYS:HD3	1.53	0.88
1:0Q:89:VAL:HG23	1:0Q:129:SER:HB3	1.57	0.87
12:2a:163:MET:HE1	12:2a:197:ASP:HB2	1.56	0.87
35:4C:459:PHE:HB2	35:4C:467:LEU:HD21	1.56	0.87
37:4E:587:ALA:C	43:5L:18:ILE:HG13	1.98	0.87
37:4F:856:MET:HE1	38:4N:85:LEU:HD22	1.55	0.87
38:4K:24:THR:OG1	42:5G:97:HIS:HA	1.73	0.87
47:6B:243:GLU:OE2	47:6B:246:ARG:NH2	2.06	0.87
49:6G:358:GLN:HE22	49:6G:436:GLN:HE22	1.21	0.87
12:Aa:101:TRP:HD1	12:Aa:145:SER:HG	1.20	0.87
1:0Q:332:ILE:HG13	1:0Q:370:HIS:CD2	2.09	0.87
12:1a:330:MET:HB3	12:1a:349:VAL:HG11	1.55	0.87
30:3F:301:VAL:HG21	13:6f:428:LEU:HA	1.53	0.87
37:4G:1333:VAL:HA	38:4L:24:THR:CA	2.04	0.87
37:4G:1338:PHE:CE1	38:4L:35:ALA:CB	2.56	0.87
37:4H:1084:ARG:CD	38:4M:41:LYS:HE3	2.00	0.87
41:4W:168:GLY:N	43:5L:153:SER:O	2.06	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:138:ARG:C	43:5L:146:TYR:CE1	2.52	0.87
47:6A:243:GLU:OE2	47:6A:246:ARG:NH2	2.06	0.87
47:6B:205:ARG:CZ	12:Bg:403:MET:HA	2.03	0.87
1:0F:326:THR:OG1	52:6Q:1:UNK:N	2.06	0.87
1:0P:219:ILE:HG13	1:0P:255:LYS:HD3	1.52	0.87
31:3I:471:ARG:HH12	13:8f:434:GLU:HB2	1.39	0.87
34:3N:269:GLY:HA3	34:3N:463:HIS:HD1	1.35	0.87
34:3P:39:GLU:HG3	34:3P:43:ARG:HE	1.38	0.87
37:4E:576:ALA:N	43:5L:30:ARG:CB	2.38	0.87
37:4H:954:SER:HA	38:4M:48:PRO:N	1.89	0.87
42:5H:137:TYR:HB3	43:5L:47:LYS:C	1.99	0.87
47:6A:347:ARG:HA	47:6A:350:ARG:HE	1.38	0.87
10:1R:397:PRO:HG2	13:Bb:338:LYS:HA	1.55	0.87
10:1S:443:TYR:HD1	12:Be:227:HIS:HE2	1.23	0.87
24:2T:172:HIS:NE2	13:Ch:160:ASP:OD1	2.06	0.87
37:4H:1323:ILE:HD12	38:4M:26:GLU:OE1	1.71	0.87
38:4K:77:VAL:HG21	38:4N:57:VAL:HG21	1.55	0.87
12:Aa:86:ARG:HD3	12:Ba:281:TYR:CD1	2.09	0.87
3:1I:168:GLN:HB3	3:1I:228:ASN:HD21	1.40	0.87
37:4E:589:PRO:C	43:5L:20:HIS:N	2.33	0.87
37:4H:972:PHE:HD1	38:4M:41:LYS:HD3	1.39	0.87
37:4H:1169:VAL:HG13	37:4H:1195:ARG:HH22	1.39	0.87
38:4K:49:ILE:CG2	38:4N:72:ARG:CZ	2.51	0.87
41:5A:121:GLN:N	43:5L:168:GLU:OE1	2.08	0.87
47:6A:566:LEU:HD12	47:6A:1158:ARG:HH12	1.37	0.87
12:8e:248:ALA:HA	12:8e:252:LYS:HD2	1.55	0.87
1:0N:142:LYS:HE3	1:0N:178:GLU:HG3	1.55	0.87
3:1H:1006:ASP:CG	47:6A:409:ARG:NH1	2.32	0.87
13:1f:279:GLU:OE2	16:2I:11:UNK:N	2.08	0.87
34:3X:266:HIS:HA	34:3X:463:HIS:HE1	1.40	0.87
37:4E:583:GLU:N	43:5L:38:GLY:H	1.72	0.87
37:4F:514:TYR:HE2	37:4F:538:GLU:HB3	1.39	0.87
41:5A:120:TYR:CB	43:5L:168:GLU:CD	2.47	0.87
42:5H:92:THR:O	43:5L:44:THR:CA	2.23	0.87
12:9a:83:GLN:O	12:Aa:281:TYR:OH	1.93	0.87
1:0X:37:LEU:HD23	1:0X:68:LEU:HD21	1.54	0.87
10:1S:432:THR:HG21	12:Ae:77:ARG:HG2	1.56	0.87
37:4F:1082:LEU:HD13	38:4N:39:HIS:O	1.75	0.87
37:4F:1083:ILE:H	38:4N:38:VAL:H	0.89	0.87
37:4F:1138:VAL:HG23	38:4N:33:LYS:HB3	1.54	0.87
37:4F:1321:THR:HA	38:4N:29:LYS:HZ2	1.06	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1329:GLY:O	37:4G:1331:TRP:HE3	1.56	0.87
43:5I:52:LEU:O	43:5I:55:TYR:HB2	1.73	0.87
13:5f:401:LYS:NZ	12:5g:429:SER:O	2.07	0.87
12:6a:86:ARG:HD3	12:7a:281:TYR:HD1	1.40	0.87
12:Bg:285:THR:HG22	12:Bg:287:PRO:HD2	1.57	0.87
1:0M:332:ILE:HG13	1:0M:370:HIS:ND1	1.89	0.87
1:0U:369:ASP:HA	1:0U:372:LYS:HD2	1.57	0.87
13:3h:434:GLU:OE1	39:4Q:168:HIS:ND1	2.07	0.87
37:4F:1084:ARG:N	38:4N:37:GLY:C	2.33	0.87
37:4F:1093:VAL:HG13	38:4N:33:LYS:HE3	1.56	0.87
37:4H:972:PHE:CE1	38:4M:41:LYS:CD	2.57	0.87
43:5J:52:LEU:O	43:5J:55:TYR:HB2	1.73	0.87
49:6H:358:GLN:HE22	49:6H:436:GLN:HE22	1.21	0.87
3:1H:799:PRO:HB3	47:6A:374:LEU:HD11	1.56	0.87
5:1M:556:TYR:HE2	12:1e:395:LEU:HB3	1.40	0.87
37:4F:1091:VAL:HG21	37:4F:1138:VAL:H	1.37	0.87
37:4G:1082:LEU:CD1	38:4L:39:HIS:CB	2.53	0.87
37:4G:1321:THR:HB	38:4L:26:GLU:HA	1.55	0.87
42:5H:137:TYR:N	43:5L:50:ILE:N	1.96	0.87
47:6B:81:MET:HB3	47:6B:89:VAL:HG21	1.56	0.87
12:7c:397:TRP:CG	13:7d:257:THR:HG22	2.09	0.87
24:2U:141:ARG:HB3	13:Dd:215:ARG:HD3	1.56	0.86
12:3a:86:ARG:HH11	12:4a:280:GLN:C	1.82	0.86
37:4F:1076:THR:N	38:4N:42:ILE:HD11	1.90	0.86
37:4G:1144:LEU:HB3	37:4G:1156:LEU:HB2	1.57	0.86
37:4G:1333:VAL:HG22	38:4L:27:ALA:CA	2.04	0.86
37:4H:1322:ARG:HH11	37:4H:1712:LEU:HD23	1.40	0.86
1:0O:320:ILE:HB	1:0O:327:LEU:HD23	1.56	0.86
1:1B:219:ILE:HG13	1:1B:255:LYS:HD3	1.54	0.86
12:1g:320:ARG:HB3	16:2I:4:UNK:HA	1.56	0.86
37:4F:1324:THR:H	38:4N:26:GLU:HG3	1.36	0.86
37:4F:1340:PRO:C	38:4N:31:ALA:HB2	1.98	0.86
37:4G:529:VAL:HG21	38:4I:66:GLN:HE21	1.40	0.86
37:4H:974:VAL:HG12	37:4H:975:VAL:H	1.39	0.86
38:4J:25:PRO:O	38:4J:28:VAL:N	2.09	0.86
41:5A:75:ARG:O	41:5A:94:GLU:N	2.07	0.86
42:5H:158:MET:HG2	43:5L:158:HIS:CG	2.11	0.86
12:6a:60:VAL:HG21	12:6a:86:ARG:HG2	1.57	0.86
13:7d:222:PRO:HD2	12:7e:324:LYS:HG2	1.57	0.86
1:0I:332:ILE:HG13	1:0I:370:HIS:CD2	2.10	0.86
10:1S:387:ASP:O	13:Bf:308:ARG:NH2	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:2W:138:UNK:O	12:2c:425:TYR:OH	1.91	0.86
37:4H:826:LEU:HD22	38:4M:82:TYR:HH	1.36	0.86
37:4H:1341:ILE:CG1	38:4M:31:ALA:HB3	2.04	0.86
38:4K:25:PRO:O	38:4K:28:VAL:N	2.09	0.86
42:5H:135:ARG:C	43:5L:49:ALA:CA	2.49	0.86
47:6A:81:MET:HB3	47:6A:89:VAL:HG21	1.56	0.86
7:1O:3113:LEU:HD12	7:1O:3140:LEU:HD22	1.56	0.86
12:2g:222:PHE:CE2	13:2h:247:ALA:HB1	2.10	0.86
37:4F:1075:VAL:H	38:4N:38:VAL:CG1	1.88	0.86
37:4F:1753:GLN:OE1	38:4N:25:PRO:HD2	1.76	0.86
37:4G:1136:ARG:HB3	37:4G:1145:VAL:O	1.74	0.86
12:Be:86:ARG:NH2	12:Ce:278:SER:O	2.07	0.86
1:0N:207:ASP:OD1	10:1R:255:LEU:HG	1.74	0.86
10:1S:92:GLN:OE1	13:9h:163:LYS:NZ	2.08	0.86
30:3F:248:PRO:O	30:3F:250:GLU:N	2.09	0.86
12:3e:248:ALA:HA	12:3e:252:LYS:HD2	1.55	0.86
37:4F:582:GLN:HB3	43:5K:30:ARG:HD2	1.56	0.86
37:4E:584:ALA:CA	43:5L:36:TYR:CD2	2.56	0.86
37:4F:1081:HIS:HB3	37:4F:1338:PHE:CZ	2.10	0.86
37:4G:1334:GLU:N	38:4L:28:VAL:N	2.24	0.86
37:4H:1082:LEU:HD22	37:4H:1094:ALA:CB	2.05	0.86
37:4H:1091:VAL:CG2	37:4H:1138:VAL:CG1	2.53	0.86
38:4L:25:PRO:O	38:4L:28:VAL:N	2.09	0.86
42:5H:135:ARG:C	42:5H:135:ARG:HB3	1.98	0.86
12:5e:330:MET:HB3	12:5e:349:VAL:HG11	1.57	0.86
47:6B:180:ILE:HG22	47:6B:184:ARG:HH12	1.40	0.86
1:0T:89:VAL:HG21	1:0T:125:GLY:HA3	1.56	0.86
2:1F:11:VAL:HG11	13:Ah:422:ARG:HG3	1.57	0.86
3:1H:168:GLN:HB3	3:1H:228:ASN:HD21	1.41	0.86
4:1K:25:LYS:HB2	13:Bd:415:GLU:HB2	1.56	0.86
12:1c:261:PRO:O	12:1c:262:ARG:HG2	1.74	0.86
37:4G:935:ARG:NH1	38:4L:49:ILE:HG12	1.91	0.86
38:4I:25:PRO:O	38:4I:28:VAL:N	2.09	0.86
38:4J:77:VAL:HG22	38:4M:61:LEU:HD21	1.57	0.86
42:5H:135:ARG:NE	43:5L:56:VAL:N	2.24	0.86
42:5H:135:ARG:HH11	43:5L:56:VAL:HG23	1.39	0.86
12:Ae:101:TRP:HD1	12:Ae:145:SER:HG	1.22	0.86
37:4E:581:LEU:CD2	43:5L:30:ARG:O	2.21	0.86
37:4E:590:LYS:O	37:4E:590:LYS:CG	2.22	0.86
37:4F:935:ARG:HH11	38:4N:49:ILE:HG13	1.40	0.86
37:4F:1334:GLU:HB3	38:4N:28:VAL:HA	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0F:332:ILE:HG13	1:0F:370:HIS:CD2	2.10	0.86
4:1J:67:LEU:O	47:6B:95:TYR:OH	1.94	0.86
24:2U:173:ASP:HA	24:2U:176:LYS:HZ3	1.40	0.86
31:3I:289:ASN:HD21	13:9h:393:HIS:CE1	1.93	0.86
35:4C:797:VAL:O	35:4C:884:VAL:HA	1.75	0.86
37:4F:576:ALA:HA	37:4F:581:LEU:HD23	1.55	0.86
37:4F:1074:GLN:N	38:4N:41:LYS:HD3	1.91	0.86
37:4F:1323:ILE:CA	38:4N:26:GLU:CG	2.52	0.86
37:4H:1323:ILE:CG1	38:4M:26:GLU:CD	2.49	0.86
43:5K:52:LEU:O	43:5K:55:TYR:HB2	1.73	0.86
12:6a:218:THR:HG23	12:6a:219:THR:HG23	1.57	0.86
12:6e:86:ARG:HH12	12:7e:281:TYR:HA	1.40	0.86
12:Be:248:ALA:HA	12:Be:252:LYS:HD2	1.58	0.86
28:3C:535:ARG:HB3	13:4h:339:ARG:HD3	1.54	0.86
37:4E:587:ALA:O	43:5L:18:ILE:HA	1.75	0.86
37:4F:1334:GLU:N	38:4N:28:VAL:O	2.09	0.86
37:4G:576:ALA:HA	37:4G:581:LEU:HD23	1.56	0.86
47:6A:180:ILE:HG22	47:6A:184:ARG:HH12	1.40	0.86
3:6D:679:GLU:HB3	3:6D:683:ARG:NH1	1.90	0.86
3:1H:988:TRP:HA	3:1H:991:ILE:CD1	2.04	0.85
37:4F:1333:VAL:HA	38:4N:30:ALA:H	1.40	0.85
42:5H:143:VAL:HB	43:5L:145:SER:O	1.75	0.85
1:0M:55:PRO:HB2	1:0M:96:ASN:ND2	1.91	0.85
3:1H:1002:PRO:HB2	47:6A:406:ARG:HH11	1.41	0.85
37:4E:584:ALA:HA	43:5L:36:TYR:CD2	2.11	0.85
37:4F:1091:VAL:CG2	37:4F:1138:VAL:H	1.87	0.85
42:5H:49:ILE:CG2	43:5L:144:TYR:CD1	2.59	0.85
12:5e:248:ALA:HA	12:5e:252:LYS:HD2	1.57	0.85
1:0G:248:VAL:HG21	1:0G:285:LEU:HD22	1.58	0.85
1:0R:322:ALA:HB3	47:6B:277:PHE:HE2	1.42	0.85
1:0E:91:SER:HA	1:0E:99:TYR:CE2	2.10	0.85
34:3U:373:ALA:HB1	34:3Z:362:PRO:HA	1.58	0.85
37:4E:578:ASP:N	43:5L:42:TYR:HE1	1.74	0.85
37:4E:579:THR:C	43:5L:35:LYS:CE	2.49	0.85
37:4G:527:VAL:HA	37:4G:531:LEU:HD23	1.59	0.85
37:4H:1074:GLN:NE2	37:4H:1076:THR:OG1	2.08	0.85
42:5H:49:ILE:CG2	42:5H:49:ILE:HD13	2.06	0.85
54:5f:501:GTP:O1B	12:5g:252:LYS:NZ	2.07	0.85
12:8e:282:ARG:HH21	12:8e:288:GLU:HG3	1.40	0.85
2:1F:207:LYS:HG2	2:1F:211:HIS:HE1	1.41	0.85
3:1H:1009:ARG:HD3	48:6F:353:ILE:HG21	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3h:263:PRO:HB3	39:4Q:175:GLN:HB3	1.57	0.85
37:4E:1525:LEU:HD11	37:4E:1611:ILE:HG23	1.58	0.85
37:4G:854:TYR:CG	38:4L:82:TYR:CD2	2.63	0.85
42:5H:135:ARG:HD2	43:5L:52:LEU:HG	1.58	0.85
42:5H:139:LEU:CG	43:5L:146:TYR:N	2.40	0.85
3:6D:515:GLY:N	3:6D:572:TYR:OH	2.09	0.85
13:Cb:222:PRO:HD2	12:Cc:324:LYS:HG2	1.59	0.85
24:2T:131:CYS:SG	24:2T:134:VAL:HB	2.16	0.85
37:4F:1076:THR:OG1	38:4N:42:ILE:HD13	1.77	0.85
37:4G:1093:VAL:CG1	37:4G:1093:VAL:HG22	2.06	0.85
37:4H:576:ALA:HA	37:4H:581:LEU:HD23	1.56	0.85
37:4H:1138:VAL:HB	38:4M:33:LYS:HG2	1.57	0.85
38:4L:50:ARG:O	38:4L:54:GLU:HB2	1.77	0.85
38:4M:25:PRO:O	38:4M:28:VAL:N	2.09	0.85
39:4S:7:LEU:HD12	43:5K:93:MET:HE2	1.58	0.85
42:5H:91:TYR:CE2	43:5L:42:TYR:HB3	2.12	0.85
42:5H:92:THR:H	43:5L:41:ASP:HB3	1.39	0.85
42:5H:135:ARG:NH1	43:5L:33:LEU:CD2	2.34	0.85
42:5H:136:HIS:CG	43:5L:50:ILE:HB	2.11	0.85
47:6B:172:LEU:HD21	13:Ch:390:ARG:HG2	1.58	0.85
3:1H:197:SER:OG	47:6A:289:GLN:N	2.09	0.85
4:1K:251:GLN:HG2	3:6D:922:ALA:HB1	1.58	0.85
6:1N:1711:LEU:HB3	6:1N:1715:TRP:CH2	2.11	0.85
37:4H:856:MET:HG2	38:4M:85:LEU:CD1	2.06	0.85
42:5H:158:MET:CB	43:5L:159:PRO:HD2	2.05	0.85
12:7e:248:ALA:HA	12:7e:252:LYS:HD3	1.59	0.85
12:Ac:285:THR:HG22	12:Ac:287:PRO:HD2	1.56	0.85
1:0G:368:PRO:HG3	44:5O:27:GLY:HA2	1.59	0.85
1:0N:108:ARG:HD2	1:0N:147:TRP:CD1	2.11	0.85
1:0P:108:ARG:HD2	1:0P:147:TRP:CD1	2.10	0.85
1:0R:28:ALA:HB1	1:0R:67:ARG:HB2	1.57	0.85
10:1R:162:TRP:HZ3	13:Ab:207:GLU:HG3	1.40	0.85
32:3J:122:CYS:SG	32:3J:124:ARG:NH2	2.49	0.85
34:3W:209:THR:OG1	34:3Y:295:GLN:OE1	1.94	0.85
37:4E:583:GLU:N	43:5L:34:ALA:C	2.27	0.85
37:4G:542:ARG:HH21	37:4G:554:THR:HA	1.39	0.85
37:4G:1082:LEU:HD11	38:4L:40:LYS:H	1.41	0.85
38:4I:50:ARG:O	38:4I:54:GLU:HB2	1.77	0.85
1:0J:350:ASP:HA	1:0J:353:LYS:HG3	1.58	0.85
4:1J:109:LEU:HD12	4:1J:156:PHE:HB2	1.58	0.85
24:2U:135:ARG:HH11	24:2U:137:THR:HG22	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3R:295:GLN:OE1	34:4B:209:THR:OG1	1.94	0.85
37:4G:534:HIS:NE2	37:4G:538:GLU:OE1	2.09	0.85
37:4G:959:LEU:O	37:4G:970:SER:HA	1.77	0.85
37:4G:1073:LEU:HD21	37:4G:1379:ALA:HB2	1.56	0.85
37:4G:1095:PRO:HD3	38:4L:32:GLU:OE2	1.76	0.85
38:4N:25:PRO:O	38:4N:28:VAL:N	2.09	0.85
42:5H:135:ARG:CD	43:5L:53:ASP:HA	2.06	0.85
42:5H:157:LEU:N	43:5L:157:ALA:O	2.09	0.85
12:9e:83:GLN:O	12:Ae:281:TYR:OH	1.93	0.85
54:Ab:501:GTP:O1B	12:Ac:252:LYS:NZ	2.09	0.85
4:1K:109:LEU:HD12	4:1K:156:PHE:HB2	1.58	0.85
4:1K:239:PRO:HG3	4:1K:252:CYS:HA	1.59	0.85
7:1O:2831:ARG:NH2	7:1O:3006:ALA:O	2.10	0.85
30:3F:372:GLU:HB3	13:8f:386:GLU:HG3	1.57	0.85
37:4E:581:LEU:HB2	43:5L:31:ASP:O	1.77	0.85
37:4F:1091:VAL:HG21	37:4F:1138:VAL:HG23	1.56	0.85
37:4H:1090:GLN:C	37:4H:1091:VAL:CB	2.49	0.85
38:4I:28:VAL:HG22	42:5E:100:GLY:HA2	1.59	0.85
38:4K:50:ARG:O	38:4K:54:GLU:HB2	1.77	0.85
12:4e:285:THR:HG22	12:4e:287:PRO:HD2	1.55	0.85
42:5H:129:MET:O	42:5H:134:LEU:HB2	1.76	0.85
12:7c:397:TRP:CD2	13:7d:257:THR:HG22	2.11	0.85
12:8g:178:THR:OG1	13:8h:258:ASN:OD1	1.94	0.85
1:0W:248:VAL:HG21	1:0W:285:LEU:HD22	1.59	0.85
1:0F:157:ALA:HB2	1:0F:197:HIS:CE1	2.11	0.84
4:1J:239:PRO:HG3	4:1J:252:CYS:HA	1.59	0.84
34:3R:398:ARG:O	34:3R:402:PRO:HD2	1.77	0.84
37:4E:589:PRO:HB2	43:5L:19:ARG:C	2.00	0.84
37:4F:1333:VAL:CA	38:4N:30:ALA:CA	2.55	0.84
49:6I:295:THR:OG1	49:6I:298:GLY:O	1.95	0.84
12:Ae:86:ARG:HD3	12:Be:281:TYR:CD1	2.11	0.84
1:0J:315:MET:HE3	1:0J:355:ALA:HB1	1.58	0.84
1:0Z:142:LYS:HG3	1:0Z:183:LEU:HD11	1.58	0.84
4:1K:69:ILE:HD11	4:1K:178:ARG:HD2	1.57	0.84
7:1O:171:LEU:HB3	8:1P:887:LEU:HD13	1.59	0.84
30:3F:301:VAL:HB	13:6f:431:ASP:OD2	1.77	0.84
30:3F:301:VAL:HA	13:6f:264:ARG:HH21	1.41	0.84
37:4F:968:VAL:O	37:4F:1075:VAL:CA	2.20	0.84
37:4G:691:MET:HG2	37:4G:785:LYS:HB3	1.59	0.84
37:4H:1333:VAL:HG11	38:4M:27:ALA:HB3	1.57	0.84
38:4J:50:ARG:O	38:4J:54:GLU:HB2	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4M:50:ARG:O	38:4M:54:GLU:HB2	1.77	0.84
42:5H:137:TYR:HB3	43:5L:48:THR:C	2.01	0.84
42:5H:137:TYR:HB2	43:5L:46:PRO:O	1.75	0.84
12:9e:86:ARG:NH1	12:Ae:281:TYR:HB2	1.92	0.84
1:0O:332:ILE:HG13	1:0O:370:HIS:ND1	1.93	0.84
1:1A:127:LEU:HD11	1:1A:149:LEU:HD21	1.57	0.84
34:3V:56:TYR:HB3	34:3V:295:GLN:HG3	1.58	0.84
12:3a:87:PRO:HD3	12:4a:281:TYR:CD1	2.12	0.84
37:4F:1075:VAL:O	38:4N:38:VAL:CB	2.25	0.84
37:4G:534:HIS:NE2	38:4I:50:ARG:NH2	2.25	0.84
37:4H:1092:LEU:HB2	38:4M:37:GLY:N	1.93	0.84
37:4H:1333:VAL:CG2	38:4M:27:ALA:CB	2.54	0.84
42:5H:129:MET:C	42:5H:134:LEU:HB2	2.02	0.84
42:5H:137:TYR:HD2	43:5L:48:THR:H	1.23	0.84
49:6J:295:THR:OG1	49:6J:298:GLY:O	1.95	0.84
12:Ba:83:GLN:O	12:Ca:281:TYR:OH	1.94	0.84
37:4E:581:LEU:CD2	43:5L:30:ARG:HA	2.07	0.84
37:4G:1082:LEU:HB2	38:4L:39:HIS:CB	2.03	0.84
37:4G:1338:PHE:CE1	38:4L:35:ALA:HB3	2.11	0.84
42:5H:140:TYR:CE1	43:5L:50:ILE:CG1	2.60	0.84
13:Df:177:VAL:HB	12:Dg:331:LEU:HD22	1.56	0.84
1:0D:24:VAL:HG11	1:0D:46:LEU:HD21	1.59	0.84
2:1F:8:LEU:HD13	13:Ah:422:ARG:HH22	1.42	0.84
3:1H:1005:PRO:HD3	47:6A:406:ARG:NH2	1.92	0.84
37:4F:903:THR:HG22	37:4F:906:THR:HG23	1.58	0.84
37:4F:1082:LEU:HD11	38:4N:43:ASN:HB2	1.59	0.84
37:4F:1712:LEU:HD12	37:4F:1713:PRO:HD2	1.58	0.84
37:4H:1316:GLN:HA	37:4H:1322:ARG:N	1.90	0.84
38:4N:50:ARG:O	38:4N:54:GLU:HB2	1.77	0.84
42:5H:135:ARG:HD3	43:5L:56:VAL:CG2	2.07	0.84
12:5a:278:SER:HA	12:5a:281:TYR:HB2	1.57	0.84
13:Ad:222:PRO:HD2	12:Ae:324:LYS:HG2	1.57	0.84
1:0X:28:ALA:HB1	1:0X:67:ARG:HB2	1.59	0.84
4:1J:69:ILE:HD11	4:1J:178:ARG:HD2	1.57	0.84
6:1N:610:THR:HG21	6:1N:641:TRP:HE1	1.41	0.84
34:3Y:398:ARG:O	34:3Y:402:PRO:HD2	1.77	0.84
37:4F:1075:VAL:O	38:4N:38:VAL:HG11	1.77	0.84
37:4F:1083:ILE:CA	38:4N:34:ALA:O	2.26	0.84
38:4J:84:LEU:HB3	38:4M:77:VAL:CG2	2.08	0.84
5:1M:154:ILE:HA	5:1M:171:ALA:O	1.77	0.84
34:3O:370:GLU:HB3	34:3Y:359:ARG:HD3	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4A:56:TYR:HB3	34:4A:295:GLN:HG3	1.58	0.84
37:4F:1094:ALA:CB	38:4N:36:VAL:HG21	2.07	0.84
12:7e:86:ARG:CZ	12:8e:281:TYR:HA	2.07	0.84
12:Be:285:THR:HG22	12:Be:287:PRO:HD2	1.60	0.84
1:0N:350:ASP:HA	1:0N:353:LYS:HG3	1.57	0.84
2:1E:64:THR:HG22	2:1E:88:LEU:HD22	1.57	0.84
3:1I:279:LEU:HB3	3:1I:497:VAL:HG22	1.60	0.84
3:1I:512:LEU:HD23	3:1I:524:ARG:HH11	1.42	0.84
4:1K:206:ALA:HA	4:1K:287:HIS:HB2	1.60	0.84
10:1R:279:PHE:HD2	10:1R:283:ARG:HH21	1.25	0.84
34:3V:89:ILE:HD13	34:3V:328:MET:HE3	1.59	0.84
37:4F:1083:ILE:C	38:4N:37:GLY:HA3	2.02	0.84
41:5A:169:LEU:CB	43:5L:164:GLU:HB3	2.07	0.84
47:6A:1647:GLN:HE22	47:6A:1672:LEU:HA	1.43	0.84
47:6B:289:GLN:N	3:6D:197:SER:OG	2.09	0.84
47:6B:1647:GLN:HE22	47:6B:1672:LEU:HA	1.43	0.84
1:0A:28:ALA:HB1	1:0A:67:ARG:HB2	1.59	0.84
4:1J:206:ALA:HA	4:1J:287:HIS:HB2	1.60	0.84
37:4E:960:LEU:HD22	38:4O:45:ALA:HB1	1.59	0.84
37:4E:1123:LEU:HD21	43:5L:132:LEU:O	1.78	0.84
37:4H:536:LEU:O	37:4H:540:VAL:HG23	1.76	0.84
37:4H:1144:LEU:HG	38:4M:29:LYS:HG3	1.60	0.84
7:1O:2893:HIS:HA	8:1P:779:SER:OG	1.78	0.84
24:2T:139:VAL:O	13:Dh:214:ARG:NH2	2.11	0.84
37:4E:581:LEU:CG	43:5L:33:LEU:HB3	2.08	0.84
37:4F:1094:ALA:HB3	38:4N:36:VAL:HB	1.58	0.84
37:4F:1760:SER:HB3	43:5K:120:SER:HA	1.60	0.84
40:4U:258:LEU:HD12	40:4U:259:THR:HG23	1.58	0.84
42:5H:45:ALA:O	42:5H:49:ILE:CB	2.26	0.84
42:5H:135:ARG:C	43:5L:49:ALA:HA	2.00	0.84
47:6B:290:GLY:H	3:6D:197:SER:CA	1.89	0.84
13:6b:222:PRO:HD2	12:6c:324:LYS:HG2	1.60	0.84
54:Af:501:GTP:O1B	12:Ag:252:LYS:NZ	2.11	0.84
12:Ba:86:ARG:NH2	12:Ca:282:ARG:HB2	1.93	0.84
5:1L:154:ILE:HA	5:1L:171:ALA:O	1.77	0.83
10:1S:162:TRP:HZ2	12:Ag:324:LYS:HE2	1.42	0.83
30:3G:536:HIS:NE2	13:7h:113:GLU:HB3	1.93	0.83
36:4D:174:SER:HA	36:4D:222:TYR:OH	1.78	0.83
37:4F:1084:ARG:N	38:4N:37:GLY:HA2	1.92	0.83
37:4G:1093:VAL:CG2	38:4L:36:VAL:H	1.91	0.83
37:4H:952:ASP:OD2	37:4H:954:SER:OG	1.95	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1072:ALA:HB2	37:4H:1086:THR:HA	1.58	0.83
37:4H:1136:ARG:HG3	38:4M:33:LYS:HZ1	1.05	0.83
37:4H:1138:VAL:N	38:4M:33:LYS:CG	2.40	0.83
47:6B:374:LEU:HD11	3:6D:799:PRO:HB3	1.58	0.83
31:3I:467:ARG:HD3	13:8f:430:LYS:HZ2	1.42	0.83
13:3h:431:ASP:OD1	39:4Q:167:HIS:HD2	1.61	0.83
41:5A:163:ASN:O	43:5L:165:LEU:HD21	1.78	0.83
1:1A:219:ILE:HA	1:1A:255:LYS:HE2	1.60	0.83
1:1B:218:VAL:HB	1:1B:255:LYS:HD2	1.58	0.83
10:1S:397:PRO:HG2	13:Bf:338:LYS:HA	1.58	0.83
10:1S:427:TYR:CE2	12:Be:216:LYS:HD2	2.11	0.83
30:3F:301:VAL:N	13:6f:431:ASP:OD2	2.11	0.83
13:3h:431:ASP:OD1	39:4Q:167:HIS:CD2	2.32	0.83
37:4G:1083:ILE:H	38:4L:38:VAL:CG2	1.91	0.83
37:4G:1321:THR:O	38:4L:26:GLU:N	2.12	0.83
37:4H:972:PHE:CD1	38:4M:41:LYS:CD	2.61	0.83
40:4T:258:LEU:HD12	40:4T:259:THR:HG23	1.58	0.83
43:5I:112:PRO:HB2	44:5S:116:LEU:HG	1.59	0.83
50:6L:260:LYS:HA	50:6L:266:LEU:HD13	1.59	0.83
7:1O:2494:PRO:HB2	8:1P:801:ILE:HD11	1.60	0.83
12:3a:285:THR:HG22	12:3a:287:PRO:HD2	1.60	0.83
37:4E:574:LEU:HA	43:5L:30:ARG:HE	1.40	0.83
37:4E:1110:GLY:HA2	43:5L:140:LYS:HD3	1.61	0.83
37:4G:856:MET:HA	38:4L:85:LEU:O	1.77	0.83
37:4H:1162:VAL:H	37:4H:1299:ARG:HH12	1.22	0.83
3:6D:550:PHE:CZ	3:6D:600:VAL:HG13	2.13	0.83
10:1S:395:VAL:HG21	13:Bf:338:LYS:HG3	1.61	0.83
37:4H:1331:TRP:HD1	38:4M:27:ALA:CB	1.91	0.83
37:4H:1333:VAL:O	37:4H:1334:GLU:HB3	1.77	0.83
42:5H:143:VAL:HG23	43:5L:146:TYR:C	2.04	0.83
34:3T:348:LYS:HE3	34:3T:382:LEU:HB3	1.59	0.83
37:4H:514:TYR:HE2	37:4H:538:GLU:HB3	1.42	0.83
38:4K:49:ILE:HG23	38:4N:72:ARG:HE	1.41	0.83
38:4K:77:VAL:CG1	38:4N:57:VAL:HG21	2.07	0.83
41:5A:138:TRP:CA	41:5A:142:ARG:O	2.24	0.83
42:5G:139:LEU:HD21	43:5K:50:ILE:HD12	1.58	0.83
42:5H:94:CYS:N	43:5L:45:ASN:CG	2.35	0.83
50:6L:268:ARG:NH2	50:6L:293:LEU:O	2.12	0.83
6:1N:641:TRP:HD1	6:1N:653:GLN:CD	1.86	0.83
37:4E:576:ALA:HB3	43:5L:52:LEU:HD21	1.58	0.83
37:4E:580:GLU:C	43:5L:35:LYS:CB	2.51	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1075:VAL:H	38:4N:38:VAL:HG13	1.40	0.83
37:4F:1082:LEU:CD1	38:4N:43:ASN:HD22	1.82	0.83
37:4G:854:TYR:CE1	37:4G:854:TYR:CG	2.65	0.83
37:4H:508:PRO:HD2	38:4M:70:LYS:HZ2	1.44	0.83
42:5H:135:ARG:HB3	43:5L:50:ILE:O	1.78	0.83
47:6B:1647:GLN:HE21	47:6B:1673:TRP:HE3	1.26	0.83
50:6K:260:LYS:HA	50:6K:266:LEU:HD13	1.59	0.83
51:6M:1610:VAL:HG22	51:6M:1624:VAL:HG21	1.60	0.83
12:Ba:86:ARG:NH2	12:Ca:278:SER:O	2.11	0.83
12:Ce:107:THR:O	12:Ce:111:GLU:HG2	1.78	0.83
1:0V:85:LEU:HD11	1:0V:107:LEU:HD23	1.61	0.83
33:3L:197:LEU:HD11	12:7e:386:THR:HA	1.59	0.83
37:4F:1083:ILE:H	38:4N:38:VAL:N	1.62	0.83
37:4G:1333:VAL:HG21	38:4L:26:GLU:N	1.94	0.83
38:4J:25:PRO:HG3	42:5F:96:ALA:CB	2.08	0.83
50:6K:268:ARG:NH2	50:6K:293:LEU:O	2.12	0.83
13:Bf:222:PRO:HD2	12:Bg:324:LYS:HG2	1.60	0.83
1:0J:253:PHE:HZ	1:0J:278:VAL:HG11	1.43	0.83
1:0R:280:LYS:HA	47:6B:277:PHE:HD1	1.43	0.83
10:1R:58:THR:HG22	13:Ad:339:ARG:HH21	1.43	0.83
32:3J:216:THR:HG21	12:Aa:409:THR:HB	1.59	0.83
37:4E:576:ALA:N	43:5L:30:ARG:HG2	1.94	0.83
37:4E:581:LEU:HD23	43:5L:30:ARG:HA	1.61	0.83
37:4F:1083:ILE:HD12	38:4N:34:ALA:HB1	1.60	0.83
37:4E:586:PHE:H	43:5L:10:LEU:HD21	1.42	0.83
37:4F:1083:ILE:C	38:4N:37:GLY:CA	2.51	0.83
37:4F:1094:ALA:HB3	38:4N:36:VAL:CG2	2.08	0.83
37:4F:1299:ARG:HD3	37:4F:1303:VAL:HG23	1.58	0.83
43:5L:163:VAL:HG12	43:5L:165:LEU:HB3	1.60	0.83
13:6b:178:SER:OG	12:6c:347:ASN:ND2	2.11	0.83
12:Ba:113:ILE:HA	12:Ba:116:VAL:HG22	1.61	0.83
1:1A:186:ILE:HA	5:1L:588:ARG:HH12	1.42	0.82
10:1S:58:THR:HG22	13:Ah:339:ARG:HH21	1.43	0.82
30:3F:386:MET:HG3	13:8f:339:ARG:NH1	1.94	0.82
32:3J:348:ARG:NH2	12:9a:417:ASP:O	2.11	0.82
34:3S:401:VAL:HA	34:3S:404:HIS:CE1	2.14	0.82
13:3d:423:GLU:HG2	39:4S:214:LEU:HD22	1.60	0.82
37:4E:567:LEU:HG	42:5H:103:LEU:HD21	1.59	0.82
37:4E:583:GLU:C	37:4E:583:GLU:HA	1.72	0.82
37:4E:1108:PHE:CZ	43:5L:137:ARG:HG3	2.13	0.82
40:4V:258:LEU:HD12	40:4V:259:THR:HG23	1.58	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:4V:501:ARG:NH1	40:4V:514:ASP:OD1	2.11	0.82
13:5b:401:LYS:NZ	12:5c:429:SER:O	2.12	0.82
51:6N:1610:VAL:HG22	51:6N:1624:VAL:HG21	1.60	0.82
13:Ad:72:PRO:HG3	12:Ae:1:MET:HE2	1.58	0.82
1:0K:218:VAL:HG12	1:0K:255:LYS:HB3	1.61	0.82
10:1S:376:LEU:HD12	13:Af:96:LYS:HD2	1.61	0.82
37:4G:1082:LEU:CG	38:4L:36:VAL:HG12	2.09	0.82
42:5H:134:LEU:O	43:5L:49:ALA:C	2.14	0.82
30:3G:624:VAL:HG22	33:3L:201:MET:HE1	1.61	0.82
13:3h:263:PRO:HB2	39:4Q:171:SER:O	1.78	0.82
37:4G:1081:HIS:HB3	37:4G:1338:PHE:CE1	2.14	0.82
37:4H:1084:ARG:HG2	38:4M:37:GLY:CA	2.09	0.82
37:4H:1313:VAL:O	37:4H:1324:THR:HA	1.79	0.82
40:4U:501:ARG:NH1	40:4U:514:ASP:OD1	2.11	0.82
49:6G:295:THR:OG1	49:6G:298:GLY:O	1.95	0.82
49:6H:295:THR:OG1	49:6H:298:GLY:O	1.95	0.82
12:9a:387:ALA:HA	12:9a:390:ARG:HE	1.44	0.82
12:Be:33:THR:O	12:Be:58:ARG:NH1	2.12	0.82
12:2e:176:SER:OG	12:2e:181:GLU:OE1	1.98	0.82
37:4E:580:GLU:N	43:5L:35:LYS:HE3	1.93	0.82
37:4G:671:LEU:HD11	38:4I:40:LYS:HB2	1.57	0.82
37:4H:1299:ARG:HD3	37:4H:1303:VAL:HG23	1.62	0.82
42:5H:45:ALA:HB1	42:5H:49:ILE:HD12	1.62	0.82
42:5H:94:CYS:CB	43:5L:46:PRO:CD	2.55	0.82
42:5H:134:LEU:CA	43:5L:49:ALA:HB1	2.08	0.82
43:5J:113:PRO:HA	44:5T:112:VAL:HG22	1.61	0.82
47:6A:1647:GLN:HE21	47:6A:1673:TRP:HE3	1.26	0.82
3:1H:1006:ASP:HB3	47:6A:409:ARG:HD3	0.88	0.82
37:4E:577:LEU:HD12	43:5L:30:ARG:HH22	1.44	0.82
37:4F:541:ALA:HA	38:4K:49:ILE:HG21	1.61	0.82
37:4G:690:CYS:CA	38:4I:55:ALA:HA	2.09	0.82
41:5A:142:ARG:N	43:5L:166:ALA:O	2.11	0.82
42:5H:136:HIS:N	42:5H:136:HIS:HA	1.94	0.82
42:5H:136:HIS:NE2	43:5L:142:TYR:HE1	1.73	0.82
42:5H:137:TYR:CZ	43:5L:45:ASN:HB3	2.15	0.82
42:5H:139:LEU:CA	43:5L:146:TYR:CD1	2.61	0.82
42:5H:139:LEU:HD22	43:5L:146:TYR:H	1.45	0.82
1:0A:282:THR:HB	1:0A:285:LEU:HB2	1.61	0.82
1:0E:7:LEU:HD21	23:2Q:39:UNK:CB	2.10	0.82
1:0E:350:ASP:HA	1:0E:353:LYS:HG3	1.60	0.82
1:1B:298:LEU:HD11	1:1B:313:GLY:HA3	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1R:201:ARG:HH12	10:1R:252:THR:HG23	1.42	0.82
10:1S:443:TYR:OH	12:Be:26:ASP:HB2	1.78	0.82
34:3M:401:VAL:HA	34:3M:404:HIS:CE1	2.15	0.82
34:3N:266:HIS:HA	34:3N:463:HIS:CE1	2.15	0.82
35:4C:791:SER:OG	35:4C:816:ARG:O	1.98	0.82
36:4D:186:ILE:HG21	36:4D:198:LEU:HD21	1.61	0.82
37:4G:1093:VAL:CG2	38:4L:36:VAL:N	2.41	0.82
37:4G:1094:ALA:H	38:4L:36:VAL:CB	1.92	0.82
37:4H:1335:MET:HE2	37:4H:1335:MET:HA	1.61	0.82
40:4T:501:ARG:NH1	40:4T:514:ASP:OD1	2.11	0.82
42:5H:49:ILE:HG22	43:5L:144:TYR:HD1	1.44	0.82
43:5J:163:VAL:HG12	43:5J:165:LEU:HB3	1.60	0.82
1:0U:332:ILE:HG13	1:0U:370:HIS:CD2	2.13	0.82
2:1E:367:VAL:HG21	2:1E:386:LEU:HD23	1.61	0.82
3:1I:621:GLU:OE2	3:1I:627:ARG:HD2	1.80	0.82
4:1K:25:LYS:HB2	13:Bd:415:GLU:CB	2.08	0.82
35:4C:908:SER:HA	35:4C:1077:ALA:HB3	1.61	0.82
37:4H:1315:VAL:C	37:4H:1322:ARG:HA	2.03	0.82
12:7e:86:ARG:HD2	12:8e:281:TYR:HB3	1.61	0.82
12:9a:390:ARG:HG3	12:9a:391:ARG:HG2	1.60	0.82
3:1H:512:LEU:HD23	3:1H:524:ARG:HH11	1.43	0.82
12:1e:362:LYS:HA	12:1e:362:LYS:HE2	1.61	0.82
24:2T:199:ARG:HH11	24:2T:199:ARG:HA	1.45	0.82
24:2U:128:VAL:HG13	12:De:335:ASN:HB2	1.61	0.82
32:3J:357:CYS:HB3	12:9a:386:THR:HG22	1.59	0.82
37:4E:576:ALA:H	43:5L:30:ARG:CD	1.92	0.82
37:4E:1184:TRP:CH2	38:4O:28:VAL:HA	2.14	0.82
37:4G:1093:VAL:O	37:4G:1135:PHE:CA	2.26	0.82
38:4L:67:ALA:HA	38:4L:70:LYS:HB2	1.62	0.82
42:5H:139:LEU:CA	43:5L:146:TYR:CG	2.63	0.82
12:Ae:248:ALA:HA	12:Ae:252:LYS:HD3	1.62	0.82
1:1C:332:ILE:HG13	1:1C:370:HIS:CD2	2.13	0.82
6:1N:1779:GLN:HG2	6:1N:1791:LEU:HD21	1.62	0.82
10:1R:343:PRO:HG2	12:Ac:410:GLU:HG3	1.61	0.82
34:3P:251:LEU:HD22	34:3S:492:LEU:HD13	1.62	0.82
35:4C:946:LEU:HG	37:4E:722:ASP:OD1	1.80	0.82
37:4E:581:LEU:HB3	43:5L:34:ALA:HB3	1.60	0.82
37:4F:1162:VAL:H	37:4F:1299:ARG:HH12	1.26	0.82
37:4F:1321:THR:CB	38:4N:29:LYS:HZ3	1.92	0.82
37:4F:1335:MET:SD	38:4N:32:GLU:OE2	2.37	0.82
37:4G:1335:MET:HE1	37:4G:1341:ILE:HD11	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1332:SER:H	38:4M:24:THR:HA	1.41	0.82
38:4J:25:PRO:HB3	42:5F:96:ALA:CB	2.09	0.82
38:4J:29:LYS:O	38:4J:33:LYS:CG	2.28	0.82
38:4K:67:ALA:HA	38:4K:70:LYS:HB2	1.62	0.82
38:4M:67:ALA:HA	38:4M:70:LYS:HB2	1.62	0.82
42:5H:95:GLU:C	43:5L:43:GLN:O	2.21	0.82
42:5H:133:LEU:HG	43:5L:46:PRO:HB2	1.61	0.82
1:0E:92:LEU:HD11	1:0E:107:LEU:HD11	1.62	0.82
1:0U:371:ALA:HB1	1:0U:411:LEU:HD23	1.62	0.82
37:4G:1136:ARG:N	38:4L:33:LYS:HE2	1.95	0.82
37:4H:1323:ILE:CG1	38:4M:26:GLU:OE1	2.28	0.82
38:4J:67:ALA:HA	38:4J:70:LYS:HB2	1.62	0.82
4:1J:237:VAL:HG22	4:1J:239:PRO:HD2	1.62	0.81
4:1K:44:VAL:HG12	4:1K:193:ALA:HB1	1.61	0.81
5:1M:518:LEU:HB2	13:1f:417:GLU:OE1	1.80	0.81
10:1R:162:TRP:CZ3	13:Ab:207:GLU:HG3	2.14	0.81
12:2e:33:THR:O	12:2e:58:ARG:NH1	2.13	0.81
34:3T:327:VAL:HG13	34:3T:400:LEU:HD22	1.61	0.81
34:3Z:398:ARG:O	34:3Z:402:PRO:HD2	1.79	0.81
35:4C:570:ALA:N	37:4E:1762:GLU:OE1	2.11	0.81
37:4E:581:LEU:HA	43:5L:32:LEU:HA	1.60	0.81
37:4G:852:LYS:HD2	37:4G:854:TYR:OH	1.80	0.81
1:0E:108:ARG:CD	1:0E:147:TRP:HD1	1.93	0.81
2:1E:46:LEU:HD21	2:1E:53:LEU:HB2	1.60	0.81
4:1K:237:VAL:HG22	4:1K:239:PRO:HD2	1.62	0.81
12:3e:253:LEU:HD11	12:3e:316:LEU:HD21	1.62	0.81
35:4C:411:VAL:HG12	35:4C:474:GLU:HG3	1.61	0.81
37:4F:1082:LEU:HD13	38:4N:39:HIS:C	2.05	0.81
37:4G:970:SER:HB2	37:4G:1074:GLN:CG	2.09	0.81
37:4G:1083:ILE:C	38:4L:34:ALA:O	2.22	0.81
37:4H:431:ALA:HB3	38:4M:86:SER:OG	1.80	0.81
43:5I:163:VAL:HG12	43:5I:165:LEU:HB3	1.60	0.81
43:5K:163:VAL:HG12	43:5K:165:LEU:HB3	1.60	0.81
13:5b:403:ALA:HB2	12:5c:344:TRP:CZ3	2.15	0.81
1:0F:127:LEU:HD11	1:0F:149:LEU:HD21	1.61	0.81
1:0L:195:SER:O	1:0L:239:HIS:HE1	1.62	0.81
1:0P:301:TYR:O	1:0P:305:SER:HB3	1.80	0.81
1:0R:322:ALA:HB3	47:6B:277:PHE:CE2	2.13	0.81
1:0U:65:LEU:HD11	1:0U:84:ILE:HD13	1.61	0.81
4:1J:44:VAL:HG12	4:1J:193:ALA:HB1	1.61	0.81
24:2U:151:PHE:O	13:Dd:176:GLN:NE2	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3X:398:ARG:O	34:3X:402:PRO:HD2	1.79	0.81
35:4C:415:GLN:NE2	35:4C:470:ASN:OD1	2.14	0.81
37:4E:583:GLU:HB3	43:5L:35:LYS:HA	1.62	0.81
37:4E:819:LEU:HD23	37:4E:871:ALA:HA	1.60	0.81
37:4F:1082:LEU:CD1	38:4N:43:ASN:CG	2.49	0.81
37:4F:1321:THR:CA	38:4N:29:LYS:HZ1	1.94	0.81
37:4G:686:HIS:HD2	37:4G:686:HIS:O	1.64	0.81
37:4H:1084:ARG:CD	38:4M:41:LYS:HE2	2.07	0.81
37:4H:1092:LEU:CA	37:4H:1136:ARG:O	2.28	0.81
37:4H:1138:VAL:C	37:4H:1139:THR:OG1	2.20	0.81
38:4M:29:LYS:O	38:4M:33:LYS:CG	2.28	0.81
12:4a:86:ARG:HD3	12:5a:281:TYR:HD1	1.42	0.81
42:5H:135:ARG:HE	43:5L:55:TYR:CB	1.90	0.81
47:6A:12:GLU:OE1	47:6A:12:GLU:N	2.14	0.81
47:6A:196:GLN:HE22	47:6A:200:GLN:HE21	1.27	0.81
47:6B:12:GLU:OE1	47:6B:12:GLU:N	2.14	0.81
47:6B:196:GLN:HE22	47:6B:200:GLN:HE21	1.27	0.81
12:Ae:50:TYR:HH	12:Ae:237:THR:HG1	0.98	0.81
54:Cd:501:GTP:O1B	12:Ce:252:LYS:NZ	2.11	0.81
1:0H:108:ARG:HD2	1:0H:147:TRP:CD1	2.15	0.81
1:0K:332:ILE:HG13	1:0K:370:HIS:CD2	2.14	0.81
2:1D:367:VAL:HG21	2:1D:386:LEU:HD23	1.61	0.81
34:3P:485:TYR:HE2	34:3S:482:LEU:HA	1.46	0.81
34:3S:266:HIS:HA	34:3S:463:HIS:CE1	2.14	0.81
35:4C:540:LYS:HE3	37:4E:1730:LEU:HD23	1.61	0.81
37:4F:540:VAL:CG1	38:4N:72:ARG:NH1	2.42	0.81
37:4H:692:MET:HB3	38:4J:63:GLN:HE21	1.46	0.81
37:4H:1091:VAL:CG1	37:4H:1091:VAL:HG21	2.09	0.81
40:4V:699:ARG:HH22	40:4V:820:ILE:HB	1.45	0.81
42:5H:110:PRO:HG3	42:5H:118:SER:HB3	1.60	0.81
42:5H:137:TYR:CE1	43:5L:45:ASN:HB3	2.15	0.81
1:0H:301:TYR:O	1:0H:305:SER:HB3	1.80	0.81
10:1S:58:THR:H	13:Ah:339:ARG:HH21	1.25	0.81
30:3F:484:GLU:OE2	13:7b:112:LYS:NZ	2.13	0.81
34:3P:489:MET:SD	34:3S:251:LEU:HD11	2.21	0.81
35:4C:784:LEU:HD22	37:4E:1764:PRO:HB2	1.62	0.81
35:4C:1052:THR:HA	35:4C:1078:LEU:HD13	1.61	0.81
37:4E:581:LEU:CG	43:5L:30:ARG:O	2.27	0.81
37:4F:1073:LEU:O	38:4N:41:LYS:CG	2.28	0.81
37:4F:1333:VAL:CA	38:4N:30:ALA:N	2.43	0.81
37:4G:686:HIS:O	37:4G:686:HIS:CD2	2.34	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1093:VAL:CG2	37:4G:1093:VAL:HG11	2.08	0.81
37:4H:1135:PHE:O	37:4H:1136:ARG:HB3	1.81	0.81
38:4K:29:LYS:O	38:4K:33:LYS:CG	2.28	0.81
38:4K:33:LYS:N	38:4K:33:LYS:HD2	1.94	0.81
40:4V:694:ALA:HB1	40:4V:819:LEU:HB3	1.61	0.81
42:5E:143:VAL:HG21	43:5I:141:LEU:HD11	1.61	0.81
42:5H:139:LEU:CD2	43:5L:146:TYR:H	1.93	0.81
12:5e:101:TRP:HD1	12:5e:145:SER:HG	1.27	0.81
50:6L:290:LEU:HB2	50:6L:293:LEU:HD11	1.60	0.81
1:0A:219:ILE:CG1	1:0A:255:LYS:HD3	2.10	0.81
1:0B:332:ILE:HG13	1:0B:370:HIS:ND1	1.95	0.81
1:0E:104:ALA:O	1:0E:108:ARG:HG3	1.81	0.81
1:0N:85:LEU:HD21	1:0N:121:VAL:HA	1.62	0.81
1:0Z:253:PHE:CZ	1:0Z:278:VAL:HG11	2.12	0.81
3:1H:899:LEU:HD21	3:1H:905:PRO:HB3	1.62	0.81
4:1J:82:ILE:HD13	47:6B:91:PRO:HB2	1.60	0.81
4:1K:26:GLN:HE22	4:1K:85:PRO:HD2	1.43	0.81
7:1O:1380:LEU:HD23	7:1O:1513:LEU:HD22	1.62	0.81
7:1O:2241:ASP:OD1	7:1O:2281:ALA:HB2	1.81	0.81
34:3R:247:ASP:CG	34:3W:250:ARG:H	1.87	0.81
34:3W:498:LEU:HD11	34:4B:105:GLN:HG3	1.62	0.81
37:4E:581:LEU:HD11	43:5L:33:LEU:HB3	1.63	0.81
37:4E:590:LYS:N	43:5L:21:PRO:HD3	1.94	0.81
38:4L:32:GLU:HG3	38:4L:33:LYS:HZ2	1.44	0.81
42:5H:81:VAL:O	42:5H:84:THR:OG1	1.98	0.81
42:5H:135:ARG:CB	43:5L:50:ILE:O	2.29	0.81
47:6A:1613:PRO:HG3	47:6A:1916:GLU:HG3	1.62	0.81
1:0A:94:GLU:CD	47:6B:110:LYS:HE2	2.04	0.81
1:0E:85:LEU:HD11	1:0E:107:LEU:HD23	1.62	0.81
1:0N:52:ASP:N	1:0N:58:GLN:HE21	1.79	0.81
4:1J:26:GLN:HE22	4:1J:85:PRO:HD2	1.43	0.81
37:4F:1085:MET:HE2	37:4F:1350:ILE:HD12	1.62	0.81
37:4F:1321:THR:CB	38:4N:29:LYS:NZ	2.44	0.81
47:6B:1613:PRO:HG3	47:6B:1916:GLU:HG3	1.63	0.81
1:0R:249:GLY:HA3	47:6B:337:ARG:NH1	1.94	0.81
2:1D:517:ALA:HB1	6:1N:1993:GLY:H	1.46	0.81
3:1H:1010:LEU:HD13	47:6A:402:MET:CB	2.11	0.81
4:1J:79:LYS:HD3	47:6B:92:ARG:NH1	1.96	0.81
34:3O:366:VAL:HG12	34:3Y:359:ARG:NE	1.96	0.81
34:3Q:68:LEU:O	34:3Q:72:PRO:HD2	1.81	0.81
37:4E:579:THR:CG2	37:4E:579:THR:O	2.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:586:PHE:CE2	43:5L:10:LEU:HD13	2.14	0.81
37:4F:1082:LEU:HD21	38:4N:42:ILE:HB	1.63	0.81
37:4F:1083:ILE:O	38:4N:38:VAL:N	2.07	0.81
37:4F:1093:VAL:C	38:4N:36:VAL:CG2	2.53	0.81
37:4H:1136:ARG:CD	38:4M:29:LYS:HD2	2.11	0.81
37:4H:1332:SER:CA	38:4M:24:THR:HA	2.11	0.81
38:4N:29:LYS:O	38:4N:33:LYS:CG	2.28	0.81
42:5H:131:ARG:HA	43:5L:53:ASP:HB3	1.60	0.81
47:6B:291:GLN:N	3:6D:197:SER:O	2.14	0.81
12:Ca:113:ILE:HA	12:Ca:116:VAL:HG22	1.63	0.81
1:0V:383:LEU:HB3	1:0V:400:CYS:SG	2.21	0.81
3:1H:515:GLY:N	3:1H:572:TYR:OH	2.13	0.81
3:1I:515:GLY:N	3:1I:572:TYR:OH	2.13	0.81
7:1O:2898:GLU:HG3	7:1O:2951:LEU:HD11	1.62	0.81
25:2X:138:UNK:O	12:2g:425:TYR:OH	1.99	0.81
33:3L:201:MET:HG3	12:7e:409:THR:HG21	1.63	0.81
34:3M:324:HIS:HB3	34:3M:328:MET:HE3	1.60	0.81
34:3N:251:LEU:HD11	34:3U:489:MET:SD	2.21	0.81
37:4E:584:ALA:HB2	43:5L:36:TYR:CE2	2.16	0.81
37:4F:1080:GLY:O	38:4N:39:HIS:NE2	2.14	0.81
38:4L:29:LYS:O	38:4L:33:LYS:CG	2.28	0.81
40:4T:694:ALA:HB1	40:4T:819:LEU:HB3	1.61	0.81
40:4T:699:ARG:HH22	40:4T:820:ILE:HB	1.45	0.81
41:5A:21:GLY:H	43:5L:191:LYS:N	1.75	0.81
42:5H:129:MET:HE3	42:5H:134:LEU:N	1.96	0.81
42:5H:148:GLN:HA	43:5L:90:GLN:NE2	1.95	0.81
50:6K:290:LEU:HB2	50:6K:293:LEU:HD11	1.60	0.81
12:7a:60:VAL:HG11	12:7a:86:ARG:HH21	1.46	0.81
12:7e:278:SER:HA	12:7e:281:TYR:HB2	1.63	0.81
13:8d:222:PRO:HD2	12:8e:324:LYS:HG2	1.62	0.81
1:0C:320:ILE:HG22	1:0C:327:LEU:HB3	1.63	0.81
2:1F:246:PRO:HG2	2:1F:249:LEU:HB3	1.61	0.81
30:3F:437:ILE:CG2	13:7d:159:VAL:HG22	2.11	0.81
32:3J:324:ASN:HB3	32:3J:328:GLY:HA3	1.63	0.81
34:3P:482:LEU:HB2	34:3S:489:MET:HE1	1.63	0.81
37:4E:584:ALA:CB	37:4E:586:PHE:O	2.29	0.81
37:4F:1317:ASP:OD2	37:4F:1323:ILE:HG13	1.81	0.81
37:4G:690:CYS:CB	38:4I:55:ALA:HA	2.11	0.81
37:4G:692:MET:SD	38:4I:87:HIS:C	2.64	0.81
37:4G:1095:PRO:CD	38:4L:32:GLU:OE2	2.29	0.81
37:4G:1315:VAL:C	37:4G:1322:ARG:HA	2.05	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1084:ARG:CG	38:4M:41:LYS:HE3	2.11	0.81
37:4H:1093:VAL:CG2	38:4M:35:ALA:CB	2.59	0.81
37:4H:1136:ARG:C	38:4M:33:LYS:HE2	2.02	0.81
38:4J:33:LYS:N	38:4J:33:LYS:HD2	1.94	0.81
42:5H:81:VAL:C	43:5L:46:PRO:HG3	2.06	0.81
12:5a:208:TYR:CE1	12:5a:225:LEU:HD11	2.15	0.81
49:6I:269:VAL:HG21	49:6I:284:ILE:HD13	1.63	0.81
13:6d:403:ALA:HB2	12:6e:344:TRP:HZ3	1.46	0.81
1:0M:105:PHE:HA	1:0M:108:ARG:HE	1.46	0.80
1:0Z:320:ILE:HG22	1:0Z:327:LEU:HB3	1.63	0.80
7:1O:2499:ASN:O	8:1P:800:TYR:OH	1.97	0.80
34:3P:83:GLU:OE2	34:3P:86:GLN:NE2	2.14	0.80
37:4F:1350:ILE:HG22	37:4F:1351:SER:N	1.93	0.80
37:4G:933:ARG:HH21	38:4I:71:GLU:HG2	1.45	0.80
37:4H:1082:LEU:CG	38:4M:36:VAL:HG12	2.11	0.80
38:4I:29:LYS:O	38:4I:33:LYS:CG	2.28	0.80
42:5H:92:THR:O	43:5L:44:THR:CG2	2.29	0.80
42:5H:135:ARG:HB3	43:5L:51:HIS:C	2.06	0.80
42:5H:137:TYR:CE2	43:5L:45:ASN:HB3	2.17	0.80
1:0G:332:ILE:HG13	1:0G:370:HIS:ND1	1.96	0.80
1:0N:91:SER:HA	1:0N:99:TYR:CE2	2.16	0.80
30:3F:311:ILE:HG12	13:6f:155:GLU:OE2	1.80	0.80
30:3G:669:THR:OG1	13:7d:433:GLU:OE1	1.97	0.80
32:3J:358:ARG:HD2	12:9a:390:ARG:HB3	1.63	0.80
37:4E:585:VAL:HA	43:5L:37:THR:CG2	2.12	0.80
37:4F:1334:GLU:N	38:4N:31:ALA:H	1.79	0.80
37:4H:954:SER:HA	38:4M:48:PRO:CD	2.11	0.80
37:4H:972:PHE:HE1	38:4M:41:LYS:HG3	1.32	0.80
37:4H:1130:ALA:HB3	38:4M:40:LYS:HZ1	1.44	0.80
38:4M:66:GLN:O	38:4M:69:CYS:HB3	1.82	0.80
42:5H:91:TYR:CB	43:5L:48:THR:OG1	2.29	0.80
42:5H:135:ARG:C	43:5L:49:ALA:O	2.23	0.80
12:5e:86:ARG:NH1	12:6e:281:TYR:HA	1.96	0.80
12:8e:207:LEU:HD11	12:8e:229:ILE:HD11	1.63	0.80
12:Be:60:VAL:HG12	12:Ce:281:TYR:HD1	1.45	0.80
1:0W:332:ILE:HG13	1:0W:370:HIS:ND1	1.97	0.80
1:0W:367:THR:HB	1:0W:370:HIS:CD2	2.17	0.80
1:0Q:24:VAL:HG21	1:0Q:46:LEU:HD21	1.63	0.80
7:1O:2182:GLU:OE1	7:1O:2202:ARG:NH1	2.14	0.80
34:3R:288:MET:HE1	34:4B:200:ALA:HB1	1.61	0.80
34:3W:200:ALA:HB1	34:3Y:288:MET:HE1	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:581:LEU:CD2	43:5L:30:ARG:CA	2.59	0.80
37:4F:968:VAL:HB	38:4N:42:ILE:HD13	1.61	0.80
37:4F:1074:GLN:HA	38:4N:41:LYS:CG	2.10	0.80
37:4F:1082:LEU:CD1	38:4N:43:ASN:HB2	2.12	0.80
37:4F:1084:ARG:HB3	38:4N:37:GLY:HA2	1.62	0.80
37:4G:856:MET:HE2	38:4L:85:LEU:HD23	1.61	0.80
37:4H:1332:SER:C	38:4M:24:THR:CA	2.53	0.80
40:4U:699:ARG:HH22	40:4U:820:ILE:HB	1.45	0.80
3:6D:279:LEU:HB3	3:6D:497:VAL:HG22	1.61	0.80
12:9e:86:ARG:HH11	12:Ae:281:TYR:HB2	1.42	0.80
15:2H:158:UNK:HA	12:7g:77:ARG:HH22	1.45	0.80
22:2P:13:UNK:O	12:6g:340:TYR:OH	1.99	0.80
37:4F:1335:MET:HG3	37:4F:1337:GLY:HA3	1.62	0.80
37:4G:1083:ILE:HA	38:4L:35:ALA:HA	0.83	0.80
40:4U:694:ALA:HB1	40:4U:819:LEU:HB3	1.61	0.80
12:4a:60:VAL:HG11	12:4a:86:ARG:NE	1.97	0.80
41:5A:120:TYR:C	41:5A:120:TYR:HA	2.07	0.80
42:5H:133:LEU:O	43:5L:46:PRO:HA	1.82	0.80
12:7a:33:THR:O	12:7a:58:ARG:NH1	2.15	0.80
1:0I:257:LEU:HD21	1:0I:294:GLY:HA2	1.61	0.80
1:0R:219:ILE:CG1	1:0R:255:LYS:HD3	2.09	0.80
34:3S:324:HIS:HB3	34:3S:328:MET:HE3	1.63	0.80
37:4E:581:LEU:CG	43:5L:34:ALA:H	1.94	0.80
37:4E:587:ALA:C	43:5L:18:ILE:HG12	2.05	0.80
37:4F:1091:VAL:HB	38:4N:33:LYS:O	1.80	0.80
37:4G:1082:LEU:CG	38:4L:36:VAL:CG1	2.58	0.80
37:4G:1323:ILE:HA	38:4L:26:GLU:CG	2.02	0.80
38:4I:66:GLN:O	38:4I:69:CYS:HB3	1.82	0.80
38:4M:33:LYS:N	38:4M:33:LYS:HD2	1.94	0.80
41:5A:120:TYR:N	43:5L:168:GLU:HG2	1.95	0.80
49:6G:269:VAL:HG21	49:6G:284:ILE:HD13	1.63	0.80
1:0R:315:MET:HE1	47:6B:274:ILE:HG13	1.63	0.80
3:1H:197:SER:CA	47:6A:290:GLY:H	1.94	0.80
3:1H:1053:GLN:HE21	4:1J:402:TYR:HA	1.47	0.80
3:1I:899:LEU:HD21	3:1I:905:PRO:HB3	1.62	0.80
10:1S:58:THR:N	13:Ah:339:ARG:NH2	2.29	0.80
37:4F:1075:VAL:O	38:4N:38:VAL:CG1	2.30	0.80
37:4H:1323:ILE:CB	38:4M:26:GLU:CG	2.59	0.80
38:4I:72:ARG:NE	38:4L:49:ILE:CG2	2.43	0.80
38:4K:25:PRO:CG	42:5G:96:ALA:HB3	2.12	0.80
38:4K:66:GLN:O	38:4K:69:CYS:HB3	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:5A:117:ALA:H	43:5L:169:LEU:HD21	1.47	0.80
47:6B:1338:LEU:HD21	47:6B:1376:LEU:HB3	1.62	0.80
49:6J:269:VAL:HG21	49:6J:284:ILE:HD13	1.63	0.80
12:9a:33:THR:O	12:9a:58:ARG:NH1	2.14	0.80
1:0Q:257:LEU:HD21	1:0Q:294:GLY:HA2	1.62	0.80
2:1D:46:LEU:HD21	2:1D:53:LEU:HB2	1.61	0.80
12:2e:107:THR:O	12:2e:111:GLU:HG2	1.82	0.80
34:3O:366:VAL:HG12	34:3Y:359:ARG:HE	1.47	0.80
38:4I:67:ALA:HA	38:4I:70:LYS:HB2	1.62	0.80
38:4N:67:ALA:HA	38:4N:70:LYS:HB2	1.62	0.80
41:5A:140:GLU:N	43:5L:168:GLU:O	2.14	0.80
43:5K:113:PRO:HA	44:5U:112:VAL:HG22	1.62	0.80
51:6M:1237:ARG:HE	51:6M:1456:LEU:HD23	1.46	0.80
12:9a:86:ARG:NH1	12:Aa:281:TYR:HB2	1.96	0.80
12:Aa:101:TRP:CD1	12:Aa:145:SER:HG	1.99	0.80
1:0Z:175:CYS:SG	1:0Z:187:ALA:HB2	2.22	0.80
12:1a:50:TYR:HH	12:1a:237:THR:HG1	1.12	0.80
13:1h:220:GLU:OE2	14:2G:39:PRO:HG2	1.82	0.80
34:3O:68:LEU:O	34:3O:72:PRO:HD2	1.81	0.80
37:4F:970:SER:OG	38:4N:45:ALA:HB3	1.82	0.80
37:4H:1082:LEU:CD2	38:4M:36:VAL:CG1	2.60	0.80
37:4H:1136:ARG:CB	37:4H:1145:VAL:O	2.27	0.80
38:4N:66:GLN:O	38:4N:69:CYS:HB3	1.82	0.80
39:4Q:73:ARG:NH2	44:5P:149:MET:O	2.15	0.80
12:4e:113:ILE:HA	12:4e:116:VAL:HG12	1.63	0.80
42:5E:143:VAL:CG2	43:5I:141:LEU:HD11	2.11	0.80
42:5H:91:TYR:HB2	43:5L:48:THR:OG1	1.82	0.80
42:5H:136:HIS:ND1	43:5L:50:ILE:C	2.38	0.80
47:6A:1338:LEU:HD21	47:6A:1376:LEU:HB3	1.62	0.80
49:6H:269:VAL:HG21	49:6H:284:ILE:HD13	1.63	0.80
5:1M:552:HIS:HE1	12:1e:399:THR:HB	1.46	0.80
12:2c:406:MET:SD	12:2c:409:THR:OG1	2.39	0.80
30:3G:539:LEU:HD23	30:3G:539:LEU:C	2.05	0.80
34:3N:401:VAL:HA	34:3N:404:HIS:CE1	2.16	0.80
37:4E:584:ALA:O	43:5L:33:LEU:HA	1.82	0.80
37:4E:588:PRO:HD3	43:5L:32:LEU:CB	2.12	0.80
37:4G:1073:LEU:C	38:4L:41:LYS:HZ3	1.87	0.80
37:4G:1094:ALA:CA	38:4L:36:VAL:HG13	2.10	0.80
37:4G:1319:ASP:HB3	38:4L:29:LYS:NZ	1.96	0.80
37:4H:1332:SER:OG	38:4M:24:THR:CB	2.30	0.80
37:4H:1333:VAL:CG1	38:4M:27:ALA:C	2.55	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:5A:21:GLY:CA	43:5L:191:LYS:H	1.95	0.80
12:Aa:170:VAL:HG21	12:Aa:201:VAL:HG13	1.64	0.80
13:Bb:177:VAL:HB	12:Bc:331:LEU:HD22	1.64	0.80
12:Be:101:TRP:HD1	12:Be:145:SER:HG	1.30	0.80
13:Cb:55:GLU:O	13:Db:285:GLN:NE2	2.15	0.80
1:0Y:332:ILE:HG13	1:0Y:370:HIS:ND1	1.95	0.80
34:3R:122:GLN:HA	34:3R:125:ARG:HE	1.47	0.80
12:3e:50:TYR:HH	12:3e:237:THR:HG1	1.14	0.80
37:4E:581:LEU:H	43:5L:35:LYS:CE	1.93	0.80
37:4F:692:MET:HB3	38:4K:63:GLN:HE21	1.47	0.80
37:4G:1319:ASP:CB	38:4L:29:LYS:NZ	2.44	0.80
44:5V:93:PHE:HB3	44:5V:104:ILE:HD11	1.64	0.80
51:6N:1237:ARG:HE	51:6N:1456:LEU:HD23	1.46	0.80
1:0M:367:THR:HB	1:0M:370:HIS:CD2	2.17	0.79
1:0S:332:ILE:HG13	1:0S:370:HIS:CD2	2.16	0.79
2:1G:207:LYS:HG2	2:1G:211:HIS:CE1	2.17	0.79
34:3Z:280:TRP:HB2	34:3Z:452:HIS:CD2	2.17	0.79
37:4E:577:LEU:HB2	43:5L:30:ARG:CZ	2.12	0.79
37:4E:579:THR:C	43:5L:35:LYS:CG	2.51	0.79
37:4E:582:GLN:C	37:4E:583:GLU:C	2.50	0.79
37:4E:1532:LEU:HD12	37:4E:1533:PRO:HD2	1.62	0.79
37:4G:970:SER:CB	37:4G:1074:GLN:HE21	1.94	0.79
37:4H:1082:LEU:CD1	38:4M:39:HIS:HB3	2.13	0.79
37:4H:1091:VAL:CG2	37:4H:1138:VAL:HG12	2.12	0.79
37:4H:1138:VAL:HG13	37:4H:1139:THR:CA	2.11	0.79
12:4a:113:ILE:HA	12:4a:116:VAL:HG12	1.63	0.79
49:6H:154:LEU:HD11	49:6H:392:GLY:HA2	1.64	0.79
12:6a:86:ARG:CD	12:7a:281:TYR:HD1	1.95	0.79
1:0G:367:THR:HB	1:0G:370:HIS:CD2	2.17	0.79
1:0T:248:VAL:HG21	1:0T:285:LEU:HG	1.63	0.79
3:1H:279:LEU:HB3	3:1H:497:VAL:HG22	1.63	0.79
10:1S:364:PHE:HZ	12:Bg:333:VAL:HG13	1.45	0.79
28:3C:527:ARG:HG2	28:3C:531:MET:HE3	1.64	0.79
37:4E:581:LEU:CG	43:5L:33:LEU:CA	2.60	0.79
37:4F:1084:ARG:H	38:4N:37:GLY:HA3	1.47	0.79
37:4F:1084:ARG:CG	37:4F:1092:LEU:HB2	2.12	0.79
38:4L:66:GLN:O	38:4L:69:CYS:HB3	1.82	0.79
42:5H:95:GLU:HB2	42:5H:134:LEU:CD2	2.12	0.79
42:5H:135:ARG:HG3	43:5L:51:HIS:O	1.81	0.79
12:5e:106:TYR:HB2	12:5e:401:GLU:OE2	1.82	0.79
12:7g:45:GLU:HG3	12:7g:46:ARG:HG2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ab:128:ASN:OD1	13:Bb:285:GLN:NE2	2.16	0.79
3:1I:610:VAL:HG21	3:1I:655:GLU:HG3	1.63	0.79
7:1O:3185:ARG:HD3	7:1O:3192:PHE:CZ	2.17	0.79
12:1e:98:GLY:O	13:1f:257:THR:OG1	1.99	0.79
34:3X:280:TRP:HB2	34:3X:452:HIS:CD2	2.18	0.79
34:4B:352:LEU:HD11	34:4B:382:LEU:HD11	1.64	0.79
37:4F:1304:MET:N	37:4F:1316:GLN:HB2	1.97	0.79
37:4G:692:MET:H	38:4I:59:PRO:HB2	1.46	0.79
37:4H:972:PHE:CE2	37:4H:974:VAL:HG23	2.17	0.79
12:Ae:101:TRP:CD1	12:Ae:145:SER:HG	2.01	0.79
13:Af:88:HIS:CD2	13:Bf:283:HIS:HB3	2.17	0.79
54:Dd:501:GTP:O1B	12:De:252:LYS:NZ	2.16	0.79
1:0E:95:GLN:NE2	25:2X:61:UNK:O	2.14	0.79
1:0O:367:THR:HB	1:0O:370:HIS:CD2	2.17	0.79
1:1B:407:VAL:O	1:1B:411:LEU:CB	2.31	0.79
5:1M:528:LEU:HD13	13:1f:159:VAL:HG21	1.64	0.79
34:3T:401:VAL:HA	34:3T:404:HIS:CE1	2.17	0.79
37:4E:581:LEU:CA	43:5L:31:ASP:O	2.30	0.79
37:4E:935:ARG:NH2	38:4P:72:ARG:O	2.14	0.79
37:4E:1120:GLY:HA2	43:5L:140:LYS:NZ	1.97	0.79
37:4E:1156:LEU:HD23	37:4E:1162:VAL:HG22	1.64	0.79
37:4H:1091:VAL:HG23	37:4H:1138:VAL:HG12	1.64	0.79
49:6G:154:LEU:HD11	49:6G:392:GLY:HA2	1.64	0.79
49:6G:456:ARG:O	49:6G:460:GLU:HG3	1.83	0.79
1:0I:226:LYS:HD2	1:0I:262:PHE:HE2	1.48	0.79
1:0Z:185:ARG:HD2	1:0Z:224:LYS:HG2	1.65	0.79
34:3T:269:GLY:HA3	34:3T:463:HIS:ND1	1.97	0.79
37:4E:591:PRO:CA	43:5L:20:HIS:HB3	2.13	0.79
37:4F:1082:LEU:HD23	38:4N:42:ILE:CB	2.13	0.79
37:4G:1092:LEU:HA	37:4G:1136:ARG:O	1.82	0.79
37:4H:1091:VAL:C	37:4H:1091:VAL:HA	2.02	0.79
12:4a:101:TRP:HD1	12:4a:145:SER:HG	1.31	0.79
42:5H:91:TYR:O	43:5L:45:ASN:CB	2.31	0.79
12:5a:33:THR:O	12:5a:58:ARG:NH1	2.15	0.79
47:6B:205:ARG:HH22	12:Bg:404:ASP:H	1.29	0.79
49:6H:456:ARG:O	49:6H:460:GLU:HG3	1.83	0.79
49:6J:154:LEU:HD11	49:6J:392:GLY:HA2	1.64	0.79
50:6L:409:LEU:HD11	50:6L:446:ILE:HB	1.64	0.79
12:Be:86:ARG:NH1	12:Ce:281:TYR:HB2	1.98	0.79
1:0H:27:MET:HA	1:0H:33:ASN:HD22	1.48	0.79
1:0J:407:VAL:O	1:0J:411:LEU:CB	2.31	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0I:259:CYS:HA	1:0I:262:PHE:CE2	2.17	0.79
1:0P:27:MET:HA	1:0P:33:ASN:HD22	1.48	0.79
1:0S:392:SER:OG	1:0S:395:ASP:OD1	2.00	0.79
4:1J:122:LYS:HB3	4:1J:175:CYS:HB2	1.65	0.79
34:3Q:352:LEU:HD13	34:3Q:382:LEU:HD11	1.65	0.79
12:3a:107:THR:O	12:3a:111:GLU:HG2	1.82	0.79
34:4B:190:ASN:HA	34:4B:193:LEU:HD13	1.63	0.79
50:6K:409:LEU:HD11	50:6K:446:ILE:HB	1.64	0.79
1:0H:52:ASP:N	1:0H:58:GLN:HE21	1.81	0.79
1:0I:218:VAL:O	1:0I:226:LYS:HE3	1.82	0.79
1:0Q:218:VAL:O	1:0Q:226:LYS:HE3	1.82	0.79
1:0Q:259:CYS:HA	1:0Q:262:PHE:CE2	2.17	0.79
6:1N:316:ARG:HE	6:1N:317:ALA:H	1.30	0.79
34:4B:254:MET:HG2	34:4B:481:LEU:HD11	1.62	0.79
37:4E:582:GLN:C	43:5L:37:THR:OG1	2.24	0.79
37:4F:1094:ALA:CA	38:4N:36:VAL:HG21	2.11	0.79
37:4G:692:MET:HB2	38:4I:60:VAL:HG22	1.65	0.79
38:4I:72:ARG:HG3	38:4L:49:ILE:HG23	1.64	0.79
47:6B:439:TYR:OH	47:6B:837:LYS:O	2.00	0.79
51:6M:1249:SER:HB2	51:6M:1371:VAL:HG21	1.65	0.79
51:6N:1249:SER:HB2	51:6N:1371:VAL:HG21	1.65	0.79
12:9e:86:ARG:NH2	12:Ae:278:SER:O	2.12	0.79
1:0C:185:ARG:HD2	1:0C:224:LYS:HG2	1.65	0.79
3:1H:991:ILE:CD1	3:1H:1010:LEU:HD11	2.13	0.79
5:1L:552:HIS:HE1	12:1a:399:THR:HB	1.48	0.79
33:3L:97:LEU:HB2	33:3L:123:LEU:HD23	1.65	0.79
34:3O:490:GLN:HA	34:3O:493:LYS:HZ2	1.45	0.79
37:4E:573:ALA:O	43:5L:30:ARG:NE	2.14	0.79
37:4F:960:LEU:HD23	38:4K:72:ARG:HG3	1.65	0.79
37:4F:1308:TYR:OH	37:4F:1314:LEU:HD22	1.83	0.79
37:4G:1083:ILE:H	38:4L:38:VAL:CB	1.96	0.79
37:4H:1315:VAL:H	37:4H:1323:ILE:H	1.27	0.79
37:4H:1323:ILE:CB	38:4M:26:GLU:N	2.46	0.79
37:4H:1323:ILE:CD1	37:4H:1323:ILE:CG1	2.61	0.79
13:5b:407:TRP:NE1	12:5c:258:ILE:O	2.15	0.79
12:6e:107:THR:O	12:6e:111:GLU:HG2	1.83	0.79
13:Cf:100:ALA:O	12:Cg:255:VAL:HG21	1.81	0.79
1:1A:63:LEU:CD2	5:1L:594:PRO:HG3	2.12	0.79
4:1K:122:LYS:HB3	4:1K:175:CYS:HB2	1.65	0.79
6:1N:641:TRP:CD1	6:1N:653:GLN:CD	2.61	0.79
29:3E:1185:LYS:O	29:3E:1188:TRP:HB3	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3R:488:ARG:NE	34:3W:246:SER:OG	2.15	0.79
13:3h:263:PRO:HB2	39:4Q:172:THR:OG1	1.82	0.79
37:4G:1075:VAL:N	38:4L:38:VAL:HG21	1.98	0.79
37:4G:1082:LEU:HD23	37:4G:1101:LEU:CG	2.13	0.79
37:4G:1335:MET:O	37:4G:1336:ASP:C	2.23	0.79
42:5H:53:TYR:CZ	42:5H:133:LEU:HD22	2.18	0.79
42:5H:94:CYS:CA	43:5L:45:ASN:HA	2.12	0.79
51:6N:1239:LEU:HD21	51:6N:1456:LEU:HD21	1.65	0.79
12:7a:323:THR:HA	12:7a:326:VAL:HG22	1.65	0.79
13:7f:222:PRO:O	12:7g:322:SER:OG	2.00	0.79
13:9d:72:PRO:HG3	12:9e:1:MET:HE2	1.62	0.79
12:De:107:THR:O	12:De:111:GLU:HG2	1.83	0.79
2:1E:213:LEU:HD12	2:1E:227:VAL:HG13	1.62	0.79
34:3R:255:HIS:HA	34:3R:474:TRP:HE1	1.47	0.79
34:3T:266:HIS:HA	34:3T:463:HIS:CE1	2.17	0.79
37:4E:570:LEU:HD23	42:5H:126:ALA:HB2	1.65	0.79
37:4G:1321:THR:O	38:4L:26:GLU:CD	2.27	0.79
37:4H:672:PHE:O	38:4J:39:HIS:CE1	2.36	0.79
38:4J:66:GLN:O	38:4J:69:CYS:HB3	1.82	0.79
42:5E:146:THR:HG23	43:5I:144:TYR:OH	1.82	0.79
42:5F:155:ALA:O	43:5J:153:SER:HB2	1.82	0.79
42:5H:94:CYS:C	43:5L:44:THR:O	2.26	0.79
42:5H:135:ARG:NH2	43:5L:33:LEU:HD11	1.98	0.79
43:5L:17:SER:O	43:5L:18:ILE:HG13	1.83	0.79
49:6I:154:LEU:HD11	49:6I:392:GLY:HA2	1.64	0.79
51:6M:1551:PRO:O	51:6M:1968:ARG:NH1	2.16	0.79
12:6a:113:ILE:HA	12:6a:116:VAL:HG12	1.65	0.79
13:9f:222:PRO:HD2	12:9g:324:LYS:HG2	1.64	0.79
12:Aa:33:THR:O	12:Aa:58:ARG:NH1	2.16	0.79
1:0L:52:ASP:H	1:0L:58:GLN:HE21	1.31	0.78
1:0X:52:ASP:N	1:0X:58:GLN:HE21	1.81	0.78
10:1R:443:TYR:HD1	12:Ba:227:HIS:HE2	1.30	0.78
10:1S:162:TRP:CZ2	12:Ag:324:LYS:HE2	2.17	0.78
47:6A:439:TYR:OH	47:6A:837:LYS:O	2.00	0.78
47:6B:186:ALA:HA	13:Ch:339:ARG:CD	2.12	0.78
12:8a:20:PHE:HA	12:8a:230:SER:HB2	1.64	0.78
12:Ba:1:MET:H1	12:Ba:1:MET:HE2	1.46	0.78
3:1H:795:LEU:HD21	4:1J:250:LEU:HD11	1.65	0.78
37:4E:576:ALA:O	43:5L:34:ALA:HB2	1.83	0.78
37:4E:589:PRO:CB	43:5L:19:ARG:N	2.46	0.78
37:4F:1315:VAL:HB	37:4F:1323:ILE:HB	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1082:LEU:HD13	38:4L:39:HIS:H	1.10	0.78
37:4G:1321:THR:C	38:4L:25:PRO:HB2	2.08	0.78
37:4G:1335:MET:HA	38:4L:28:VAL:CG1	2.14	0.78
37:4H:953:PRO:HB2	38:4M:47:ALA:HB3	1.63	0.78
38:4M:25:PRO:C	38:4M:28:VAL:H	1.91	0.78
41:5A:164:GLY:CA	43:5L:165:LEU:CD1	2.61	0.78
42:5H:135:ARG:HD3	43:5L:56:VAL:HG23	1.65	0.78
49:6I:362:ASP:O	49:6I:364:ILE:N	2.16	0.78
51:6M:1239:LEU:HD21	51:6M:1456:LEU:HD21	1.65	0.78
51:6N:1551:PRO:O	51:6N:1968:ARG:NH1	2.16	0.78
12:6g:179:VAL:HG23	13:6h:352:LYS:HB2	1.64	0.78
12:8e:107:THR:O	12:8e:111:GLU:HG2	1.82	0.78
12:Aa:107:THR:O	12:Aa:111:GLU:HG2	1.82	0.78
1:0H:265:GLU:HA	1:0H:268:LYS:HE2	1.63	0.78
1:0P:265:GLU:HA	1:0P:268:LYS:HE2	1.63	0.78
1:0U:186:ILE:HA	5:1M:588:ARG:HH12	1.47	0.78
1:1B:158:GLU:HA	1:1B:161:GLN:OE1	1.83	0.78
1:1C:105:PHE:HA	1:1C:108:ARG:HE	1.48	0.78
3:1H:508:LEU:HD11	3:1H:531:MET:HG3	1.66	0.78
37:4H:1082:LEU:C	38:4M:35:ALA:HB1	2.08	0.78
43:5I:17:SER:O	43:5I:18:ILE:HG13	1.83	0.78
47:6B:406:ARG:NE	3:6D:1002:PRO:HB2	1.96	0.78
49:6G:362:ASP:O	49:6G:364:ILE:N	2.16	0.78
49:6H:362:ASP:O	49:6H:364:ILE:N	2.16	0.78
12:Ae:86:ARG:HA	12:Be:281:TYR:CD1	2.17	0.78
12:Da:101:TRP:HD1	12:Da:145:SER:HG	1.29	0.78
1:0P:52:ASP:N	1:0P:58:GLN:HE21	1.82	0.78
1:0R:52:ASP:N	1:0R:58:GLN:HE21	1.81	0.78
5:1M:522:PRO:HB3	13:1f:159:VAL:CG2	2.13	0.78
7:1O:1849:ARG:NH1	44:5V:28:ASP:OD2	2.17	0.78
12:3e:33:THR:O	12:3e:58:ARG:NH1	2.16	0.78
37:4E:578:ASP:N	43:5L:42:TYR:CZ	2.52	0.78
37:4E:585:VAL:CG1	43:5L:9:ASP:HB3	2.11	0.78
37:4E:969:LEU:HD13	37:4E:1371:LEU:HD21	1.63	0.78
37:4H:1138:VAL:HG13	37:4H:1139:THR:O	1.84	0.78
38:4K:25:PRO:CG	42:5G:93:GLU:HA	2.14	0.78
41:5A:121:GLN:CB	43:5L:169:LEU:O	2.31	0.78
47:6A:395:VAL:HA	47:6A:398:GLU:HG2	1.66	0.78
47:6B:395:VAL:HA	47:6B:398:GLU:HG2	1.66	0.78
12:Da:107:THR:O	12:Da:111:GLU:HG2	1.83	0.78
12:1e:107:THR:O	12:1e:111:GLU:HG2	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1g:261:PRO:O	12:1g:262:ARG:HG2	1.83	0.78
37:4E:1717:ALA:HB2	37:4E:1730:LEU:HD22	1.65	0.78
37:4F:1074:GLN:HA	38:4N:41:LYS:HD2	1.66	0.78
37:4G:969:LEU:CA	37:4G:1074:GLN:O	2.31	0.78
37:4H:972:PHE:CD1	38:4M:41:LYS:HD3	2.17	0.78
38:4K:25:PRO:CG	42:5G:96:ALA:CB	2.61	0.78
41:5A:120:TYR:CB	43:5L:168:GLU:CG	2.55	0.78
42:5H:136:HIS:CG	43:5L:50:ILE:C	2.62	0.78
47:6B:409:ARG:CD	3:6D:1006:ASP:H	1.96	0.78
47:6B:409:ARG:NE	3:6D:1006:ASP:OD1	2.15	0.78
12:Ba:60:VAL:HG12	12:Ca:281:TYR:CD1	2.17	0.78
1:0Q:226:LYS:HD2	1:0Q:262:PHE:HE2	1.49	0.78
10:1R:162:TRP:HZ2	12:Ac:324:LYS:HE2	1.49	0.78
12:1a:107:THR:O	12:1a:111:GLU:HG2	1.82	0.78
34:3O:50:GLN:HA	34:3O:53:ILE:HD12	1.62	0.78
35:4C:424:ALA:HB1	35:4C:462:ALA:HA	1.64	0.78
35:4C:1052:THR:HA	35:4C:1078:LEU:CD1	2.13	0.78
37:4F:1082:LEU:CB	37:4F:1082:LEU:N	2.45	0.78
37:4F:1083:ILE:CG2	37:4F:1083:ILE:C	2.56	0.78
37:4G:970:SER:N	37:4G:1074:GLN:HG2	1.98	0.78
37:4G:1136:ARG:CA	38:4L:33:LYS:HE2	2.14	0.78
37:4H:540:VAL:HB	38:4M:72:ARG:HH12	1.47	0.78
37:4H:1084:ARG:HH21	38:4M:40:LYS:HG2	1.46	0.78
37:4H:1091:VAL:HG23	38:4M:33:LYS:HB2	1.65	0.78
43:5J:17:SER:O	43:5J:18:ILE:HG13	1.83	0.78
44:5R:51:GLU:OE1	44:5R:79:LYS:NZ	2.17	0.78
12:7c:179:VAL:HG23	13:7d:352:LYS:HB2	1.64	0.78
1:0A:52:ASP:N	1:0A:58:GLN:HE21	1.82	0.78
1:0N:139:PRO:HD3	32:3J:77:ARG:HH12	1.47	0.78
7:1O:643:LEU:HD21	7:1O:668:LEU:HB3	1.64	0.78
29:3E:1154:ARG:NH2	12:5e:386:THR:HA	1.97	0.78
37:4F:1083:ILE:HD12	38:4N:34:ALA:C	2.09	0.78
37:4G:1093:VAL:HG12	38:4L:32:GLU:HG3	1.65	0.78
37:4H:1334:GLU:HB3	37:4H:1340:PRO:HA	1.65	0.78
38:4M:64:GLY:O	38:4M:67:ALA:N	2.17	0.78
40:4V:444:GLU:HG3	40:4V:473:ALA:HB2	1.66	0.78
12:4e:86:ARG:HD2	12:5e:281:TYR:CD1	2.18	0.78
42:5H:49:ILE:HG21	42:5H:49:ILE:HD12	1.64	0.78
49:6J:362:ASP:O	49:6J:364:ILE:N	2.16	0.78
49:6J:456:ARG:O	49:6J:460:GLU:HG3	1.83	0.78
12:Ca:107:THR:O	12:Ca:111:GLU:HG2	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0D:367:THR:HB	1:0D:370:HIS:CD2	2.18	0.78
1:0V:195:SER:O	1:0V:239:HIS:HE1	1.66	0.78
1:0X:72:SER:HB3	1:0X:75:LEU:HG	1.66	0.78
1:0X:176:VAL:O	1:0X:184:LYS:NZ	2.16	0.78
12:1a:397:TRP:HZ2	13:1b:260:VAL:HB	1.49	0.78
23:2Q:52:UNK:HA	12:3g:291:GLN:HE22	1.49	0.78
34:3R:345:ALA:HA	34:3R:348:LYS:HD2	1.66	0.78
34:3U:352:LEU:HD13	34:3U:382:LEU:HD11	1.66	0.78
13:3h:263:PRO:HB3	39:4Q:175:GLN:CB	2.13	0.78
37:4G:692:MET:H	38:4I:59:PRO:CB	1.97	0.78
38:4N:25:PRO:C	38:4N:28:VAL:H	1.91	0.78
40:4T:444:GLU:HG3	40:4T:473:ALA:HB2	1.66	0.78
40:4U:444:GLU:HG3	40:4U:473:ALA:HB2	1.66	0.78
42:5E:143:VAL:HG22	43:5I:144:TYR:CD2	2.19	0.78
42:5H:140:TYR:CE1	43:5L:50:ILE:CD1	2.62	0.78
48:6E:167:SER:HB2	48:6E:190:VAL:HB	1.66	0.78
51:6M:1244:LEU:HG	51:6M:1245:GLY:H	1.49	0.78
12:Aa:58:ARG:NH2	12:Aa:86:ARG:HH12	1.81	0.78
13:Af:128:ASN:OD1	13:Bf:285:GLN:NE2	2.17	0.78
44:5P:51:GLU:OE1	44:5P:79:LYS:NZ	2.17	0.78
1:0F:326:THR:HG1	52:6Q:1:UNK:H	1.29	0.78
6:1N:2652:PHE:CE1	6:1N:2697:LEU:HD23	2.18	0.78
10:1R:373:SER:OG	13:Bb:220:GLU:OE2	2.01	0.78
24:2T:211:ARG:HB3	13:Cf:409:VAL:HG11	1.65	0.78
12:2a:397:TRP:HZ2	13:2b:260:VAL:HB	1.49	0.78
12:3a:235:GLY:HA3	12:3a:366:THR:HG21	1.65	0.78
37:4E:1165:ARG:NH2	37:4E:1182:ARG:HG3	1.98	0.78
37:4F:967:SER:CA	37:4F:1076:THR:O	2.29	0.78
37:4F:1093:VAL:HG11	38:4N:33:LYS:HE3	1.64	0.78
37:4F:1156:LEU:HD23	37:4F:1162:VAL:HG22	1.63	0.78
37:4H:1084:ARG:H	38:4M:35:ALA:HA	1.48	0.78
37:4H:1092:LEU:HA	38:4M:33:LYS:HA	1.66	0.78
37:4H:1136:ARG:C	38:4M:33:LYS:HE3	2.09	0.78
38:4J:25:PRO:C	38:4J:28:VAL:H	1.91	0.78
41:5A:141:ASN:CB	43:5L:168:GLU:CG	2.62	0.78
42:5G:143:VAL:HG22	43:5K:144:TYR:CE2	2.19	0.78
42:5H:135:ARG:CG	42:5H:135:ARG:CD	2.61	0.78
48:6F:167:SER:HB2	48:6F:190:VAL:HB	1.66	0.78
51:6N:1244:LEU:HG	51:6N:1245:GLY:H	1.49	0.78
12:7a:20:PHE:HA	12:7a:230:SER:OG	1.84	0.78
12:8e:60:VAL:HG21	12:8e:86:ARG:HD2	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Aa:86:ARG:HA	12:Ba:281:TYR:CD1	2.18	0.78
1:1B:253:PHE:HZ	1:1B:278:VAL:HG11	1.48	0.78
54:1d:501:GTP:O1B	12:1e:252:LYS:NZ	2.18	0.78
13:3h:263:PRO:HB2	39:4Q:172:THR:HG1	1.48	0.78
37:4E:576:ALA:HB1	43:5L:52:LEU:HD21	1.66	0.78
37:4E:584:ALA:HB1	37:4E:586:PHE:H	1.49	0.78
37:4F:968:VAL:HB	37:4F:1076:THR:OG1	1.84	0.78
37:4H:1082:LEU:O	38:4M:35:ALA:HB1	1.83	0.78
40:4U:326:VAL:HG13	40:4U:367:LEU:HD11	1.66	0.78
43:5K:17:SER:O	43:5K:18:ILE:HG13	1.83	0.78
44:5Q:51:GLU:OE1	44:5Q:79:LYS:NZ	2.17	0.78
12:5e:107:THR:O	12:5e:111:GLU:HG2	1.83	0.78
47:6A:796:ILE:HB	47:6A:811:PRO:HB3	1.66	0.78
47:6B:796:ILE:HB	47:6B:811:PRO:HB3	1.66	0.78
48:6F:354:PRO:O	48:6F:356:LEU:N	2.16	0.78
49:6I:456:ARG:O	49:6I:460:GLU:HG3	1.83	0.78
12:Be:98:GLY:O	13:Bf:257:THR:OG1	2.01	0.78
1:0Q:380:LEU:HD11	1:0Q:407:VAL:HG11	1.66	0.77
5:1L:552:HIS:CE1	12:1a:399:THR:HB	2.19	0.77
12:1a:20:PHE:HA	12:1a:230:SER:OG	1.83	0.77
12:1a:98:GLY:O	13:1b:257:THR:OG1	2.02	0.77
13:2b:222:PRO:HD2	12:2c:324:LYS:HG2	1.65	0.77
37:4E:589:PRO:HB3	43:5L:18:ILE:N	1.99	0.77
37:4E:1107:PRO:HD2	42:5H:25:PRO:HG3	1.65	0.77
37:4E:1144:LEU:HD22	37:4E:1321:THR:HG21	1.65	0.77
37:4F:958:LEU:HG	37:4F:959:LEU:N	1.97	0.77
37:4G:1082:LEU:HD13	38:4L:39:HIS:HB2	1.43	0.77
37:4G:1321:THR:CG2	38:4L:29:LYS:HZ3	1.97	0.77
12:Aa:20:PHE:HA	12:Aa:230:SER:OG	1.84	0.77
1:0D:332:ILE:HG13	1:0D:370:HIS:ND1	1.99	0.77
1:0E:37:LEU:HD23	1:0F:6:VAL:HG13	1.66	0.77
14:2F:163:ASP:OD2	12:Aa:276:ARG:NH1	2.16	0.77
34:3S:338:LEU:HD21	34:3S:393:ALA:HB1	1.66	0.77
34:3U:83:GLU:OE1	34:3U:86:GLN:NE2	2.17	0.77
35:4C:728:ARG:HD2	37:4E:1764:PRO:HD2	1.65	0.77
35:4C:918:ARG:NH1	35:4C:930:ILE:HD12	1.99	0.77
37:4E:581:LEU:CB	43:5L:33:LEU:N	2.48	0.77
37:4F:1136:ARG:HH22	38:4N:29:LYS:HE2	1.49	0.77
38:4I:25:PRO:C	38:4I:28:VAL:H	1.91	0.77
38:4L:25:PRO:C	38:4L:28:VAL:H	1.91	0.77
40:4T:326:VAL:HG13	40:4T:367:LEU:HD11	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:91:TYR:CG	43:5L:42:TYR:CA	2.67	0.77
47:6B:387:ARG:NH2	3:6D:855:GLU:OE2	2.17	0.77
49:6G:326:GLU:HA	49:6G:329:LYS:HG3	1.67	0.77
12:Ac:86:ARG:HG3	12:Bc:281:TYR:HB3	1.66	0.77
13:Df:222:PRO:HD2	12:Dg:324:LYS:HG2	1.65	0.77
1:0K:105:PHE:HA	1:0K:108:ARG:HE	1.48	0.77
1:0A:85:LEU:HD11	1:0A:107:LEU:HD23	1.67	0.77
1:0A:176:VAL:O	1:0A:184:LYS:NZ	2.16	0.77
1:0X:147:TRP:HE1	1:0X:186:ILE:CG1	1.97	0.77
1:0Z:262:PHE:HE2	1:0Z:264:ASP:HB3	1.49	0.77
3:1I:508:LEU:HD11	3:1I:531:MET:HG3	1.66	0.77
4:1J:261:THR:HG21	4:1J:288:GLU:HA	1.66	0.77
12:3a:33:THR:O	12:3a:58:ARG:NH1	2.17	0.77
37:4F:1084:ARG:H	38:4N:37:GLY:CA	1.98	0.77
37:4F:1093:VAL:HG23	38:4N:37:GLY:N	2.00	0.77
37:4F:1709:LEU:HD12	37:4F:1710:GLU:H	1.48	0.77
39:4S:15:LEU:HB3	43:5K:128:MET:SD	2.24	0.77
42:5F:157:LEU:HG	43:5J:154:ALA:HA	1.67	0.77
42:5H:49:ILE:C	43:5L:144:TYR:CD1	2.63	0.77
12:8a:256:ASN:HB3	12:8a:350:LYS:HG3	1.65	0.77
12:Da:101:TRP:CD1	12:Da:145:SER:HG	2.02	0.77
1:0I:275:VAL:HG13	1:0I:289:VAL:HG11	1.67	0.77
1:0D:206:VAL:HG21	1:0D:243:LEU:HD22	1.66	0.77
1:0O:70:ASN:HA	1:0O:113:HIS:NE2	1.99	0.77
1:0X:108:ARG:HD3	1:0X:147:TRP:HB3	1.67	0.77
4:1K:261:THR:HG21	4:1K:288:GLU:HA	1.66	0.77
5:1L:522:PRO:HB3	13:1b:159:VAL:HG22	1.65	0.77
34:3M:266:HIS:HA	34:3M:463:HIS:CE1	2.18	0.77
34:3X:266:HIS:HA	34:3X:463:HIS:CE1	2.18	0.77
37:4E:589:PRO:HA	43:5L:18:ILE:C	2.09	0.77
37:4E:590:LYS:N	43:5L:19:ARG:O	2.12	0.77
37:4E:1165:ARG:HE	37:4E:1182:ARG:HE	1.30	0.77
37:4F:692:MET:SD	38:4K:63:GLN:NE2	2.57	0.77
37:4F:1321:THR:CA	38:4N:29:LYS:HZ3	1.93	0.77
37:4F:1340:PRO:C	38:4N:31:ALA:CB	2.57	0.77
37:4G:1093:VAL:CG1	37:4G:1094:ALA:HA	2.10	0.77
37:4H:510:HIS:HE1	38:4M:66:GLN:O	1.66	0.77
42:5H:135:ARG:CA	43:5L:52:LEU:HB3	2.13	0.77
12:5a:113:ILE:HA	12:5a:116:VAL:HG22	1.65	0.77
49:6H:326:GLU:HA	49:6H:329:LYS:HG3	1.67	0.77
1:0T:52:ASP:N	1:0T:58:GLN:HE21	1.81	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2R:52:UNK:HA	12:3c:291:GLN:HE22	1.49	0.77
24:2T:140:PRO:HG2	13:Ch:117:LEU:HD11	1.66	0.77
24:2U:149:SER:OG	13:Dd:176:GLN:NE2	2.17	0.77
34:3Y:255:HIS:HA	34:3Y:474:TRP:HE1	1.50	0.77
37:4F:1302:ASN:HA	43:5K:122:MET:HE1	1.65	0.77
37:4F:1333:VAL:O	38:4N:27:ALA:HB1	1.83	0.77
37:4H:1074:GLN:NE2	38:4M:39:HIS:HD2	1.80	0.77
38:4K:25:PRO:C	38:4K:28:VAL:H	1.91	0.77
12:4e:235:GLY:HA3	12:4e:366:THR:HG21	1.66	0.77
42:5H:135:ARG:CA	43:5L:53:ASP:H	1.97	0.77
47:6B:399:LYS:HB3	3:6D:991:ILE:HG12	1.65	0.77
48:6E:354:PRO:O	48:6E:356:LEU:N	2.16	0.77
12:Ba:208:TYR:OH	13:Bb:325:PRO:HB2	1.85	0.77
1:0I:226:LYS:HD2	1:0I:262:PHE:CE2	2.19	0.77
2:1G:422:ALA:O	2:1G:424:TRP:N	2.18	0.77
3:1I:222:LEU:HD22	3:1I:235:MET:HE1	1.67	0.77
37:4G:1333:VAL:HA	38:4L:24:THR:HA	1.64	0.77
37:4H:1072:ALA:C	38:4M:41:LYS:NZ	2.42	0.77
37:4H:1136:ARG:HH11	38:4M:29:LYS:HD3	1.50	0.77
38:4L:64:GLY:O	38:4L:67:ALA:N	2.17	0.77
47:6B:1600:SER:OG	47:6B:1603:SER:OG	2.00	0.77
12:Ca:91:VAL:HG21	12:Ca:116:VAL:HG12	1.67	0.77
1:0A:147:TRP:HE1	1:0A:186:ILE:CG1	1.97	0.77
1:0P:59:GLN:NE2	12:4a:404:ASP:OD2	2.18	0.77
1:0Q:226:LYS:HD2	1:0Q:262:PHE:CE2	2.19	0.77
1:1C:265:GLU:OE1	1:1C:301:TYR:OH	2.03	0.77
10:1R:172:VAL:HG23	13:Ab:393:HIS:CE1	2.20	0.77
34:3N:324:HIS:HB3	34:3N:328:MET:HE3	1.65	0.77
36:4D:63:HIS:HE1	36:4D:122:HIS:CD2	2.03	0.77
37:4E:590:LYS:CA	43:5L:21:PRO:CD	2.52	0.77
37:4E:1123:LEU:HD22	43:5L:137:ARG:HD3	1.67	0.77
37:4F:1274:PRO:HD2	37:4F:1277:LEU:HD12	1.65	0.77
37:4G:935:ARG:CZ	38:4L:49:ILE:HG12	2.13	0.77
37:4H:1138:VAL:HG12	38:4M:33:LYS:HB2	1.65	0.77
44:5V:110:ARG:HH21	44:5V:129:ILE:HD12	1.50	0.77
48:6F:957:HIS:HB3	50:6L:412:ALA:HB2	1.65	0.77
12:Ae:33:THR:O	12:Ae:58:ARG:NH1	2.18	0.77
1:0O:368:PRO:HA	1:0O:410:LYS:HB3	1.64	0.77
1:1C:105:PHE:HA	1:1C:108:ARG:NE	2.00	0.77
10:1S:427:TYR:HE2	12:Be:216:LYS:HD2	1.49	0.77
37:4E:591:PRO:HA	43:5L:20:HIS:HB3	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1085:MET:HB3	37:4F:1367:VAL:HG11	1.65	0.77
38:4K:75:ASN:OD1	38:4N:57:VAL:HG11	1.84	0.77
40:4V:326:VAL:HG13	40:4V:367:LEU:HD11	1.66	0.77
12:4e:278:SER:HA	12:4e:281:TYR:HD2	1.50	0.77
13:5d:222:PRO:HD2	12:5e:324:LYS:HG2	1.67	0.77
12:8a:99:ASN:HD22	13:8b:258:ASN:HD21	1.32	0.77
12:Be:60:VAL:HG12	12:Ce:281:TYR:CD1	2.19	0.77
1:0I:149:LEU:HD22	1:0I:163:VAL:HG13	1.66	0.77
1:0A:108:ARG:HD3	1:0A:147:TRP:HB3	1.67	0.77
1:0V:52:ASP:N	1:0V:58:GLN:HE21	1.81	0.77
1:1B:173:VAL:HG12	1:1B:177:GLN:HE21	1.50	0.77
3:1H:197:SER:C	47:6A:290:GLY:N	2.41	0.77
12:1e:113:ILE:HA	12:1e:116:VAL:HG22	1.65	0.77
13:2f:222:PRO:HD2	12:2g:324:LYS:HG2	1.67	0.77
32:3K:221:VAL:HG22	32:3K:237:ARG:HD2	1.67	0.77
34:3Z:356:PHE:O	34:3Z:360:VAL:HG12	1.84	0.77
12:3e:60:VAL:HG21	12:3e:86:ARG:HG2	1.66	0.77
37:4E:1111:VAL:HG22	37:4E:1118:LEU:HD12	1.67	0.77
37:4G:1093:VAL:CG2	37:4G:1093:VAL:HG13	2.14	0.77
37:4G:1323:ILE:CB	37:4G:1323:ILE:C	2.52	0.77
37:4H:1074:GLN:OE1	38:4M:38:VAL:HG12	1.85	0.77
38:4L:33:LYS:N	38:4L:33:LYS:HD2	1.94	0.77
42:5H:136:HIS:HE1	43:5L:54:LEU:HB3	1.50	0.77
42:5H:139:LEU:O	43:5L:145:SER:O	2.03	0.77
12:5e:101:TRP:CD1	12:5e:145:SER:HG	2.03	0.77
51:6M:1385:PRO:HB2	51:6M:1387:GLN:HE22	1.50	0.77
12:7e:50:TYR:OH	12:7e:237:THR:HG21	1.85	0.77
1:0B:412:THR:HG23	1:0B:413:HIS:H	1.50	0.77
1:0R:85:LEU:HD11	1:0R:107:LEU:HD23	1.67	0.77
1:1B:119:GLN:HA	1:1B:159:LEU:HD21	1.65	0.77
2:1F:139:ARG:HH22	2:1F:176:HIS:CG	2.01	0.77
2:1G:224:ALA:HB1	2:1G:260:ILE:HG13	1.67	0.77
3:1H:949:LYS:HA	47:6A:385:GLU:HG3	1.67	0.77
10:1S:55:ASP:OD2	13:Ah:339:ARG:NH1	2.18	0.77
12:1a:257:LEU:HA	12:1a:312:THR:HG21	1.66	0.77
34:3R:488:ARG:NH2	34:3W:252:GLU:OE2	2.18	0.77
37:4F:1332:SER:C	38:4N:27:ALA:CB	2.57	0.77
37:4G:826:LEU:CD1	38:4L:81:ALA:HB1	2.15	0.77
37:4G:1335:MET:HE1	37:4G:1339:ALA:O	1.84	0.77
37:4H:1072:ALA:C	38:4M:41:LYS:HZ3	1.92	0.77
38:4I:33:LYS:N	38:4I:33:LYS:HD2	1.94	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:205:ARG:NH2	12:Bg:403:MET:HA	2.00	0.77
12:Aa:113:ILE:HA	12:Aa:116:VAL:HG22	1.67	0.77
12:Ba:50:TYR:OH	12:Ba:237:THR:HG21	1.85	0.77
1:0K:105:PHE:HA	1:0K:108:ARG:NE	2.00	0.77
1:0B:105:PHE:HA	1:0B:108:ARG:NE	1.99	0.76
1:1A:367:THR:HB	1:1A:370:HIS:CD2	2.19	0.76
3:1H:1005:PRO:HG2	47:6A:402:MET:HG2	1.66	0.76
4:1K:208:LYS:H	4:1K:319:SER:HB2	1.48	0.76
15:2H:138:UNK:N	12:8g:74:ASP:OD1	2.17	0.76
12:2e:113:ILE:HA	12:2e:116:VAL:HG22	1.67	0.76
29:3E:1188:TRP:HA	29:3E:1191:TRP:CZ2	2.18	0.76
32:3K:260:THR:HG22	32:3K:312:LEU:HD22	1.67	0.76
33:3L:105:LEU:HB2	33:3L:128:LEU:HD22	1.67	0.76
34:3P:462:GLU:HA	34:3P:465:LYS:HE3	1.66	0.76
34:3Q:342:GLN:HE22	34:3Q:390:LEU:HD11	1.48	0.76
34:3T:324:HIS:HB3	34:3T:328:MET:HE3	1.67	0.76
37:4F:1335:MET:CB	38:4N:32:GLU:OE1	2.32	0.76
37:4G:1093:VAL:HG23	38:4L:36:VAL:HG13	1.63	0.76
37:4G:1094:ALA:CA	38:4L:36:VAL:CG1	2.63	0.76
38:4I:38:VAL:HG12	38:4I:38:VAL:O	1.85	0.76
12:7a:60:VAL:HG21	12:7a:86:ARG:HE	1.50	0.76
12:Be:107:THR:O	12:Be:111:GLU:HG2	1.83	0.76
12:Ca:235:GLY:HA3	12:Ca:366:THR:HG21	1.67	0.76
2:1F:422:ALA:O	2:1F:424:TRP:N	2.18	0.76
6:1N:1232:GLU:OE1	6:1N:1237:LEU:HB3	1.84	0.76
28:3C:535:ARG:HB3	13:4h:339:ARG:CD	2.14	0.76
34:3O:486:ARG:O	34:3O:490:GLN:HG3	1.85	0.76
34:3Q:496:TYR:HD2	34:3T:259:MET:HE1	1.48	0.76
37:4E:573:ALA:C	43:5L:30:ARG:NE	2.42	0.76
37:4E:574:LEU:HA	43:5L:30:ARG:NH2	2.00	0.76
37:4E:581:LEU:CB	43:5L:32:LEU:N	2.46	0.76
37:4F:583:GLU:O	43:5K:30:ARG:N	2.18	0.76
37:4F:1074:GLN:CG	38:4N:41:LYS:HG2	2.14	0.76
37:4F:1341:ILE:CG1	38:4N:30:ALA:HB1	2.15	0.76
37:4G:854:TYR:CE1	38:4L:82:TYR:HD2	2.03	0.76
37:4G:1082:LEU:CD1	38:4L:39:HIS:CA	2.54	0.76
37:4G:1274:PRO:HD2	37:4G:1277:LEU:HD12	1.65	0.76
38:4I:72:ARG:CG	38:4L:49:ILE:HG23	2.15	0.76
38:4M:38:VAL:HG12	38:4M:38:VAL:O	1.85	0.76
42:5H:86:ILE:HA	43:5L:47:LYS:HZ1	1.50	0.76
44:5R:145:PHE:O	44:5R:149:MET:HG2	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6J:326:GLU:HA	49:6J:329:LYS:HG3	1.67	0.76
51:6N:1385:PRO:HB2	51:6N:1387:GLN:HE22	1.50	0.76
12:7a:101:TRP:CD1	12:7a:145:SER:HG	2.03	0.76
54:9b:501:GTP:O1B	12:9c:252:LYS:NZ	2.17	0.76
1:0A:34:ILE:HG23	1:0A:68:LEU:HD23	1.67	0.76
1:0C:52:ASP:N	1:0C:58:GLN:HE21	1.83	0.76
1:0N:72:SER:HB3	1:0N:75:LEU:HD23	1.67	0.76
1:0X:85:LEU:HD11	1:0X:107:LEU:HD23	1.67	0.76
2:1F:207:LYS:HG2	2:1F:211:HIS:CE1	2.21	0.76
10:1S:441:HIS:HD2	10:1S:443:TYR:O	1.68	0.76
37:4F:1075:VAL:O	38:4N:38:VAL:HB	1.85	0.76
37:4F:1094:ALA:O	38:4N:36:VAL:CG1	2.33	0.76
37:4F:1333:VAL:C	38:4N:31:ALA:N	2.44	0.76
37:4G:1299:ARG:HD3	37:4G:1303:VAL:HG23	1.67	0.76
37:4H:953:PRO:HB2	38:4M:47:ALA:CB	2.16	0.76
37:4H:1136:ARG:O	38:4M:33:LYS:HE3	1.84	0.76
42:5H:95:GLU:HB2	42:5H:134:LEU:HD21	1.66	0.76
44:5Q:132:ALA:HB1	44:5Q:140:VAL:HG11	1.67	0.76
48:6F:131:ARG:HH21	49:6H:279:THR:HG21	1.50	0.76
12:6a:50:TYR:OH	12:6a:237:THR:HG21	1.86	0.76
12:8a:49:VAL:HG21	12:8a:241:ARG:HG2	1.66	0.76
12:Ca:50:TYR:OH	12:Ca:237:THR:HG21	1.86	0.76
1:0N:104:ALA:O	1:0N:108:ARG:HG3	1.84	0.76
1:0N:132:THR:OG1	31:3H:163:GLU:OE1	2.01	0.76
1:0O:105:PHE:HA	1:0O:108:ARG:HE	1.50	0.76
30:3F:631:LEU:HD21	30:3F:635:ARG:HH11	1.48	0.76
34:3T:378:SER:HA	34:3T:381:ASN:HD22	1.50	0.76
34:3V:93:VAL:HG13	34:3V:397:LEU:HB3	1.67	0.76
37:4F:672:PHE:O	38:4K:39:HIS:CE1	2.39	0.76
37:4F:969:LEU:C	37:4F:1074:GLN:O	2.27	0.76
37:4F:1334:GLU:HG3	37:4F:1340:PRO:HD3	1.68	0.76
37:4H:1274:PRO:HD2	37:4H:1277:LEU:HD12	1.65	0.76
38:4N:64:GLY:O	38:4N:67:ALA:N	2.17	0.76
48:6E:607:HIS:HD2	48:6E:609:TRP:HE3	1.33	0.76
12:7a:113:ILE:HA	12:7a:116:VAL:HG12	1.66	0.76
12:Aa:208:TYR:OH	13:Ab:325:PRO:HB2	1.85	0.76
1:0B:216:PRO:HA	1:0B:219:ILE:HD12	1.68	0.76
1:0C:52:ASP:O	1:0C:58:GLN:NE2	2.19	0.76
1:0R:147:TRP:HE1	1:0R:186:ILE:CG1	1.97	0.76
1:0R:282:THR:HB	1:0R:285:LEU:HB2	1.68	0.76
1:0Y:105:PHE:HA	1:0Y:108:ARG:NE	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Z:52:ASP:O	1:0Z:58:GLN:NE2	2.19	0.76
2:1F:224:ALA:HB1	2:1F:260:ILE:HG13	1.67	0.76
4:1J:21:ILE:HD11	13:Bh:423:GLU:HG2	1.68	0.76
4:1J:208:LYS:H	4:1J:319:SER:HB2	1.48	0.76
5:1L:564:ARG:HG3	5:1L:567:ARG:HH21	1.51	0.76
12:1g:11:GLN:HE22	13:1h:249:ASN:H	1.32	0.76
12:2a:33:THR:O	12:2a:58:ARG:NH1	2.19	0.76
30:3G:547:LEU:HD11	13:7h:155:GLU:HG2	1.68	0.76
37:4E:583:GLU:CA	43:5L:36:TYR:CA	2.62	0.76
37:4E:583:GLU:O	37:4E:585:VAL:N	2.17	0.76
37:4E:1159:ASP:OD1	38:4O:17:LEU:HD13	1.84	0.76
37:4F:1083:ILE:CA	38:4N:38:VAL:CG2	2.63	0.76
37:4F:1315:VAL:HB	37:4F:1323:ILE:CA	2.16	0.76
37:4G:668:PRO:O	37:4G:671:LEU:CD1	2.33	0.76
37:4H:1072:ALA:HB1	37:4H:1085:MET:O	1.86	0.76
37:4H:1082:LEU:CD2	37:4H:1094:ALA:CB	2.63	0.76
37:4H:1138:VAL:HB	38:4M:33:LYS:CG	2.15	0.76
41:5A:164:GLY:CA	43:5L:165:LEU:HD13	2.15	0.76
1:0P:52:ASP:O	1:0P:58:GLN:NE2	2.19	0.76
30:3F:330:ALA:HB1	13:7f:430:LYS:HD2	1.67	0.76
34:3Q:121:LEU:HD13	34:3Q:357:LEU:HD12	1.68	0.76
34:3R:247:ASP:OD1	34:3W:249:ALA:N	2.17	0.76
34:3T:48:HIS:CG	34:3T:222:LEU:HA	2.21	0.76
35:4C:841:PHE:CZ	35:4C:849:ILE:HG21	2.20	0.76
37:4E:541:ALA:HA	38:4P:49:ILE:HD11	1.68	0.76
37:4F:616:TRP:HZ2	37:4F:1338:PHE:C	1.93	0.76
37:4F:1094:ALA:HB3	38:4N:36:VAL:HG21	1.67	0.76
37:4G:668:PRO:O	37:4G:671:LEU:HD12	1.85	0.76
37:4G:826:LEU:HD22	38:4L:82:TYR:CE1	2.21	0.76
37:4G:1332:SER:O	37:4G:1333:VAL:CB	2.34	0.76
37:4H:1082:LEU:CD2	38:4M:36:VAL:HG12	2.15	0.76
48:6E:959:VAL:HA	50:6K:411:THR:HG23	1.68	0.76
48:6F:607:HIS:HD2	48:6F:609:TRP:HE3	1.34	0.76
13:6d:72:PRO:HG3	12:6e:1:MET:HE2	1.65	0.76
1:0F:62:ALA:HA	1:0F:65:LEU:HD12	1.68	0.76
1:0S:105:PHE:HA	1:0S:108:ARG:NE	2.00	0.76
1:0Z:52:ASP:N	1:0Z:58:GLN:HE21	1.83	0.76
1:1B:233:LEU:HD21	1:1B:252:ILE:HG13	1.66	0.76
2:1D:79:ALA:HB2	12:Ag:406:MET:HB2	1.67	0.76
2:1D:170:ASN:HB2	2:1D:212:THR:HG22	1.68	0.76
2:1F:82:LEU:CD1	2:1F:118:PRO:HB2	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1M:564:ARG:HG3	5:1M:567:ARG:HH21	1.51	0.76
7:1O:2568:HIS:CD2	7:1O:2607:VAL:HG22	2.21	0.76
12:2a:50:TYR:OH	12:2a:237:THR:HG21	1.86	0.76
37:4E:590:LYS:HG2	43:5L:19:ARG:O	1.86	0.76
37:4G:1333:VAL:CA	38:4L:27:ALA:HB3	2.14	0.76
37:4G:1334:GLU:H	38:4L:25:PRO:HA	1.50	0.76
37:4H:1091:VAL:CG2	37:4H:1138:VAL:HG11	2.15	0.76
38:4N:25:PRO:O	38:4N:28:VAL:CB	2.34	0.76
12:5a:101:TRP:HD1	12:5a:145:SER:HG	1.33	0.76
12:5g:86:ARG:NH1	12:6g:281:TYR:O	2.19	0.76
3:6D:119:SER:OG	3:6D:122:MET:SD	2.43	0.76
49:6I:326:GLU:HA	49:6I:329:LYS:HG3	1.67	0.76
12:7a:66:MET:HE1	12:7a:112:LEU:HD23	1.66	0.76
13:7d:72:PRO:HG3	12:7e:1:MET:HE2	1.66	0.76
13:7d:221:ARG:HG2	12:7e:325:GLU:OE2	1.86	0.76
13:7d:222:PRO:O	12:7e:324:LYS:HB3	1.86	0.76
12:8e:20:PHE:HA	12:8e:230:SER:HB2	1.67	0.76
1:0E:108:ARG:HD2	1:0E:147:TRP:HD1	1.47	0.76
1:0L:52:ASP:N	1:0L:58:GLN:HE21	1.84	0.76
30:3F:301:VAL:C	13:6f:264:ARG:HE	1.94	0.76
31:3H:236:ARG:NH1	32:3J:158:LEU:O	2.18	0.76
32:3J:48:PRO:HG3	32:3J:66:LEU:HA	1.68	0.76
35:4C:730:GLU:HA	35:4C:782:GLU:HA	1.68	0.76
37:4E:574:LEU:CD2	42:5H:134:LEU:HD11	2.16	0.76
37:4G:691:MET:HB3	37:4G:785:LYS:HD3	1.67	0.76
37:4H:540:VAL:CG1	38:4M:69:CYS:SG	2.73	0.76
38:4N:38:VAL:O	38:4N:38:VAL:HG12	1.85	0.76
42:5H:46:ARG:HA	42:5H:49:ILE:HG22	1.68	0.76
44:5R:89:LEU:HG	44:5R:146:VAL:HG22	1.67	0.76
12:5a:235:GLY:HA3	12:5a:366:THR:HG21	1.68	0.76
12:7e:282:ARG:NH2	12:7e:288:GLU:HG3	2.00	0.76
12:8e:101:TRP:HD1	12:8e:145:SER:HG	1.34	0.76
12:Ca:257:LEU:HA	12:Ca:312:THR:HG21	1.67	0.76
2:1E:170:ASN:HB2	2:1E:212:THR:HG22	1.68	0.76
3:1H:197:SER:O	47:6A:291:GLN:N	2.18	0.76
4:1J:208:LYS:HD2	4:1J:320:ASP:HB3	1.67	0.76
6:1N:2176:ARG:NH1	6:1N:2474:ASP:OD1	2.19	0.76
7:1O:2881:VAL:HG22	7:1O:2999:CYS:HB2	1.67	0.76
10:1R:383:GLY:O	13:Bb:176:GLN:NE2	2.19	0.76
34:3N:398:ARG:O	34:3N:402:PRO:HD2	1.86	0.76
35:4C:455:TRP:CH2	35:4C:472:SER:HB3	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4C:794:PRO:HG2	35:4C:813:VAL:HA	1.67	0.76
37:4G:1093:VAL:CG1	38:4L:32:GLU:HG3	2.16	0.76
37:4H:1091:VAL:CA	38:4M:34:ALA:N	2.48	0.76
37:4H:1091:VAL:HG23	37:4H:1138:VAL:CG1	2.15	0.76
37:4H:1333:VAL:HG11	38:4M:27:ALA:CB	2.15	0.76
38:4I:25:PRO:O	38:4I:28:VAL:CB	2.34	0.76
43:5K:51:HIS:NE2	43:5K:146:TYR:OH	2.19	0.76
12:5a:20:PHE:HA	12:5a:230:SER:OG	1.86	0.76
48:6E:127:VAL:HG23	48:6E:153:LEU:HD22	1.67	0.76
49:6H:366:VAL:O	49:6H:367:THR:OG1	2.04	0.76
12:Ae:58:ARG:NH2	12:Ae:86:ARG:HH12	1.81	0.76
1:0F:34:ILE:HA	1:0F:37:LEU:HD12	1.68	0.76
12:2a:396:HIS:NE2	13:2b:261:PRO:O	2.16	0.76
34:3T:398:ARG:O	34:3T:402:PRO:HD2	1.86	0.76
37:4E:1085:MET:SD	37:4E:1358:LEU:HB3	2.26	0.76
37:4F:935:ARG:HH11	38:4N:49:ILE:CG1	1.98	0.76
37:4H:586:PHE:CZ	43:5J:72:LEU:HD21	2.21	0.76
38:4I:72:ARG:CG	38:4L:49:ILE:CG2	2.63	0.76
38:4J:64:GLY:O	38:4J:67:ALA:N	2.17	0.76
42:5H:143:VAL:CG2	43:5L:147:THR:N	2.45	0.76
43:5L:51:HIS:NE2	43:5L:146:TYR:OH	2.19	0.76
44:5Q:142:TYR:O	44:5Q:146:VAL:HG23	1.86	0.76
51:6N:2214:VAL:HG11	51:6N:2233:PRO:HD3	1.68	0.76
12:7a:101:TRP:HD1	12:7a:145:SER:HG	1.32	0.76
1:0D:326:THR:HA	1:0D:329:LEU:HD12	1.67	0.75
1:0O:105:PHE:HA	1:0O:108:ARG:NE	2.00	0.75
3:1H:949:LYS:HG2	47:6A:385:GLU:HG2	1.66	0.75
4:1J:102:PHE:HZ	47:6A:356:VAL:HG21	1.50	0.75
12:2e:86:ARG:HD2	12:3e:281:TYR:HD1	1.50	0.75
34:3S:52:GLN:HG2	34:3S:56:TYR:CE2	2.13	0.75
34:4B:270:ILE:HD12	34:4B:273:ARG:HH11	1.51	0.75
37:4F:585:VAL:HG11	43:5K:33:LEU:HD23	1.66	0.75
37:4F:1082:LEU:CD2	38:4N:39:HIS:HA	2.11	0.75
37:4G:1093:VAL:HG22	37:4G:1093:VAL:HG13	1.67	0.75
38:4N:33:LYS:N	38:4N:33:LYS:HD2	1.94	0.75
41:5A:141:ASN:CB	43:5L:167:PRO:C	2.59	0.75
42:5H:135:ARG:CD	43:5L:56:VAL:HG23	2.16	0.75
43:5J:51:HIS:NE2	43:5J:146:TYR:OH	2.19	0.75
47:6B:290:GLY:N	3:6D:197:SER:C	2.42	0.75
50:6K:73:ARG:HH12	50:6K:232:THR:HG22	1.50	0.75
12:7a:330:MET:HB3	12:7a:349:VAL:HG11	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Aa:58:ARG:HH21	12:Aa:86:ARG:NH1	1.81	0.75
12:Ac:87:PRO:HD3	12:Bc:281:TYR:CD2	2.21	0.75
12:Ba:101:TRP:CD1	12:Ba:145:SER:HG	2.04	0.75
1:0A:69:ALA:O	1:0A:113:HIS:NE2	2.19	0.75
1:1B:17:ARG:NH1	1:1B:52:ASP:OD1	2.19	0.75
6:1N:127:MET:HE1	6:1N:174:VAL:HG23	1.67	0.75
7:1O:1076:GLN:HE22	7:1O:1106:LEU:HD21	1.51	0.75
7:1O:2147:TYR:HE1	8:1P:809:TYR:HB3	1.50	0.75
7:1O:2718:ARG:NE	7:1O:2719:MET:SD	2.58	0.75
37:4F:1074:GLN:CD	38:4N:41:LYS:HG2	2.11	0.75
37:4F:1334:GLU:O	38:4N:28:VAL:HA	1.87	0.75
37:4H:540:VAL:HG22	38:4M:69:CYS:SG	2.26	0.75
37:4H:1072:ALA:HB3	38:4M:41:LYS:HE2	1.67	0.75
38:4L:25:PRO:O	38:4L:28:VAL:CB	2.34	0.75
42:5H:135:ARG:HH22	43:5L:59:LEU:HD11	1.52	0.75
47:6B:233:LEU:CD1	13:Bf:415:GLU:HB3	2.16	0.75
48:6E:835:GLU:OE1	48:6E:840:ILE:HA	1.86	0.75
51:6M:2214:VAL:HG11	51:6M:2233:PRO:HD3	1.68	0.75
12:Ba:86:ARG:NH1	12:Ca:281:TYR:HB2	2.01	0.75
12:Be:50:TYR:OH	12:Be:237:THR:HG21	1.87	0.75
1:0I:217:LEU:HB2	1:0I:229:VAL:HG11	1.68	0.75
1:0E:108:ARG:CD	1:0E:147:TRP:CD1	2.66	0.75
1:0O:142:LYS:HE3	1:0O:178:GLU:OE1	1.86	0.75
1:0X:69:ALA:O	1:0X:113:HIS:NE2	2.19	0.75
1:1C:127:LEU:HD11	1:1C:162:GLN:HG2	1.69	0.75
2:1F:5:THR:HG23	2:1F:8:LEU:HB3	1.68	0.75
2:1F:82:LEU:HD11	2:1F:118:PRO:CB	2.15	0.75
3:1H:683:ARG:HD3	47:6A:366:GLU:CD	2.10	0.75
5:1L:541:LEU:HD11	13:1b:163:LYS:HE3	1.65	0.75
6:1N:1375:ALA:HA	6:1N:1378:HIS:CE1	2.20	0.75
30:3F:301:VAL:O	13:6f:264:ARG:NE	2.19	0.75
30:3F:301:VAL:CB	13:6f:431:ASP:OD2	2.35	0.75
37:4E:581:LEU:CD1	43:5L:33:LEU:CB	2.59	0.75
37:4F:1138:VAL:CG2	38:4N:33:LYS:HB3	2.17	0.75
38:4J:24:THR:HG21	42:5F:97:HIS:HB2	1.69	0.75
38:4J:38:VAL:HG12	38:4J:38:VAL:O	1.85	0.75
38:4L:38:VAL:O	38:4L:38:VAL:HG12	1.85	0.75
40:4U:639:TYR:HA	40:4U:642:LEU:HB2	1.68	0.75
40:4V:598:GLU:HB3	40:4V:601:ALA:HB3	1.67	0.75
49:6G:366:VAL:O	49:6G:367:THR:OG1	2.04	0.75
50:6K:530:LYS:O	50:6K:532:LYS:N	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:6L:73:ARG:HH12	50:6L:232:THR:HG22	1.50	0.75
12:7e:107:THR:O	12:7e:111:GLU:HG2	1.85	0.75
12:Ba:87:PRO:HG2	12:Ca:278:SER:HB3	1.69	0.75
12:Be:35:THR:OG1	12:Be:37:HIS:NE2	2.19	0.75
1:0J:17:ARG:NH1	1:0J:52:ASP:OD1	2.19	0.75
1:0W:131:VAL:HG13	1:0W:171:LEU:HD11	1.68	0.75
1:0Q:217:LEU:HB2	1:0Q:229:VAL:HG11	1.68	0.75
1:0T:52:ASP:O	1:0T:58:GLN:NE2	2.20	0.75
1:1C:69:ALA:O	1:1C:113:HIS:HE1	1.69	0.75
4:1K:208:LYS:HD2	4:1K:320:ASP:HB3	1.67	0.75
13:2b:224:TYR:HE2	12:2c:246:LEU:HB2	1.52	0.75
34:3M:352:LEU:HD21	34:3M:378:SER:OG	1.86	0.75
34:3V:506:GLU:OE1	34:3X:266:HIS:CE1	2.39	0.75
37:4E:585:VAL:HG22	43:5L:37:THR:HA	1.67	0.75
37:4E:588:PRO:C	43:5L:21:PRO:HA	2.12	0.75
37:4E:854:TYR:HB3	38:4O:82:TYR:CZ	2.22	0.75
37:4F:1093:VAL:C	38:4N:36:VAL:HG21	2.11	0.75
37:4G:664:TYR:CE2	38:4I:43:ASN:CG	2.65	0.75
37:4H:1467:GLU:HB3	37:4H:1471:LEU:HB2	1.69	0.75
39:4S:4:LEU:HA	43:5K:93:MET:HE1	1.67	0.75
12:4e:249:ASP:H	12:4e:252:LYS:HD3	1.50	0.75
47:6A:1600:SER:OG	47:6A:1603:SER:OG	2.00	0.75
50:6L:530:LYS:O	50:6L:532:LYS:N	2.19	0.75
51:6N:2247:LEU:HB3	51:6N:2252:TYR:HE2	1.49	0.75
12:6c:20:PHE:HA	12:6c:230:SER:OG	1.86	0.75
12:Ae:113:ILE:HA	12:Ae:116:VAL:HG22	1.69	0.75
13:2b:222:PRO:O	12:2c:322:SER:OG	2.03	0.75
12:2e:50:TYR:OH	12:2e:237:THR:HG21	1.87	0.75
37:4E:856:MET:HE3	37:4E:860:LEU:HB3	1.68	0.75
37:4F:1335:MET:HG3	37:4F:1337:GLY:CA	2.15	0.75
38:4K:64:GLY:O	38:4K:67:ALA:N	2.17	0.75
40:4U:259:THR:HA	40:4U:262:GLN:HG2	1.66	0.75
42:5H:46:ARG:HA	42:5H:49:ILE:CG2	2.16	0.75
42:5H:49:ILE:HD13	43:5L:144:TYR:HA	1.67	0.75
42:5H:89:ALA:HB1	42:5H:93:GLU:HB2	1.68	0.75
43:5K:112:PRO:HG2	44:5U:116:LEU:HG	1.67	0.75
12:6e:50:TYR:OH	12:6e:237:THR:HG21	1.86	0.75
5:1L:560:MET:HG2	13:1b:434:GLU:OE1	1.86	0.75
10:1S:409:TYR:HB2	13:Bf:326:LYS:CE	2.17	0.75
31:3I:275:ALA:HA	13:9h:415:GLU:HG3	1.69	0.75
32:3K:161:GLU:HG2	32:3K:211:CYS:HB2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3O:92:THR:HG21	34:3O:328:MET:HE1	1.67	0.75
34:3S:266:HIS:HA	34:3S:463:HIS:HE1	1.51	0.75
35:4C:824:VAL:HG22	35:4C:842:ARG:HD2	1.66	0.75
37:4F:1467:GLU:HB3	37:4F:1471:LEU:HB2	1.69	0.75
40:4T:616:HIS:O	40:4T:617:GLU:HB2	1.85	0.75
40:4T:639:TYR:HA	40:4T:642:LEU:HB2	1.68	0.75
40:4U:616:HIS:O	40:4U:617:GLU:HB2	1.85	0.75
42:5H:133:LEU:CG	43:5L:46:PRO:HB2	2.16	0.75
42:5H:136:HIS:HE1	43:5L:54:LEU:CB	1.99	0.75
42:5H:143:VAL:HG11	43:5L:144:TYR:O	1.87	0.75
43:5I:51:HIS:NE2	43:5I:146:TYR:OH	2.19	0.75
47:6A:569:ILE:HD11	47:6A:810:LEU:HD21	1.66	0.75
47:6A:1023:VAL:HG11	47:6A:1095:ALA:HB2	1.67	0.75
3:6D:512:LEU:HD23	3:6D:524:ARG:HH11	1.50	0.75
48:6F:127:VAL:HG23	48:6F:153:LEU:HD22	1.67	0.75
48:6F:835:GLU:OE1	48:6F:840:ILE:HA	1.86	0.75
51:6M:2247:LEU:HB3	51:6M:2252:TYR:HE2	1.49	0.75
12:Da:50:TYR:OH	12:Da:237:THR:HG21	1.86	0.75
1:0K:392:SER:OG	1:0K:395:ASP:OD1	2.03	0.75
1:0B:332:ILE:HG13	1:0B:370:HIS:CE1	2.21	0.75
1:0M:412:THR:HG23	1:0M:413:HIS:H	1.52	0.75
1:0T:185:ARG:HD2	1:0T:224:LYS:HG2	1.68	0.75
1:0U:65:LEU:HD21	1:0U:84:ILE:HG21	1.67	0.75
3:1H:980:ALA:O	3:1H:984:GLN:HG3	1.86	0.75
14:2G:15:ASP:OD1	14:2G:18:THR:OG1	2.04	0.75
31:3I:286:LEU:HD11	13:9h:400:ALA:HB1	1.69	0.75
12:3c:73:MET:HA	12:3c:76:VAL:HG22	1.68	0.75
34:4A:368:LEU:HD22	37:4F:1529:ILE:HG21	1.69	0.75
37:4F:1138:VAL:CG1	37:4F:1142:GLY:HA2	2.16	0.75
37:4G:970:SER:CA	37:4G:1074:GLN:HG2	2.17	0.75
37:4G:1467:GLU:HB3	37:4G:1471:LEU:HB2	1.69	0.75
37:4H:1091:VAL:HG21	37:4H:1091:VAL:HG11	1.68	0.75
37:4H:1092:LEU:HB2	38:4M:36:VAL:C	2.12	0.75
37:4H:1092:LEU:HB3	37:4H:1136:ARG:O	1.87	0.75
37:4H:1323:ILE:HB	38:4M:26:GLU:OE2	1.86	0.75
37:4H:1336:ASP:OD2	37:4H:1708:ALA:HA	1.87	0.75
49:6I:366:VAL:O	49:6I:367:THR:OG1	2.04	0.75
12:6a:60:VAL:CG2	12:6a:86:ARG:HG2	2.15	0.75
1:0J:52:ASP:H	1:0J:58:GLN:NE2	1.84	0.75
1:0D:105:PHE:HA	1:0D:108:ARG:NE	2.01	0.75
1:0E:72:SER:HB3	1:0E:75:LEU:HG	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0L:161:GLN:HB3	6:1N:564:ARG:NH1	1.99	0.75
1:0N:108:ARG:CD	1:0N:147:TRP:HD1	2.00	0.75
1:0U:105:PHE:HA	1:0U:108:ARG:NE	2.02	0.75
1:0Z:262:PHE:CE2	1:0Z:264:ASP:HB3	2.21	0.75
1:1B:349:GLU:HB3	1:1B:351:HIS:CE1	2.21	0.75
3:1H:1007:ARG:HB3	3:1H:1009:ARG:HG2	1.69	0.75
6:1N:1711:LEU:HB3	6:1N:1715:TRP:CZ3	2.22	0.75
13:2f:222:PRO:O	12:2g:322:SER:OG	2.05	0.75
12:2g:406:MET:SD	12:2g:409:THR:OG1	2.44	0.75
30:3F:306:THR:HA	13:6f:196:GLU:OE1	1.86	0.75
34:4A:244:ARG:HG3	34:4A:246:SER:HB3	1.69	0.75
37:4E:571:ASP:OD1	42:5H:99:LYS:NZ	2.15	0.75
37:4F:1073:LEU:C	37:4F:1074:GLN:HG2	2.11	0.75
37:4F:1333:VAL:N	38:4N:27:ALA:CA	2.45	0.75
37:4G:854:TYR:CE1	38:4L:82:TYR:CD2	2.73	0.75
37:4G:1080:GLY:O	37:4G:1082:LEU:N	2.20	0.75
38:4K:77:VAL:HG21	38:4N:57:VAL:CG1	2.16	0.75
42:5H:141:GLN:H	43:5L:47:LYS:HG2	1.51	0.75
47:6A:396:SER:O	47:6A:399:LYS:HG2	1.87	0.75
49:6J:366:VAL:O	49:6J:367:THR:OG1	2.04	0.75
12:Da:58:ARG:HE	12:Da:86:ARG:NH1	1.85	0.75
1:0W:62:ALA:HA	1:0W:65:LEU:HD12	1.68	0.75
1:0W:105:PHE:HA	1:0W:108:ARG:NE	2.01	0.75
1:0K:69:ALA:O	1:0K:113:HIS:HE1	1.69	0.75
1:0K:127:LEU:HD11	1:0K:162:GLN:HG2	1.69	0.75
1:0B:367:THR:HB	1:0B:370:HIS:CD2	2.22	0.75
2:1G:246:PRO:HG2	2:1G:249:LEU:HB3	1.68	0.75
7:1O:918:ARG:NH1	7:1O:1018:LEU:O	2.18	0.75
14:2F:15:ASP:OD1	14:2F:18:THR:OG1	2.04	0.75
30:3G:547:LEU:HD22	13:7h:156:ARG:HD3	1.68	0.75
34:3R:107:TYR:HA	34:3R:110:LEU:HD12	1.69	0.75
13:3d:196:GLU:HA	39:4S:172:THR:CG2	2.17	0.75
37:4E:576:ALA:CA	43:5L:30:ARG:HG2	2.17	0.75
37:4E:582:GLN:HA	43:5L:33:LEU:O	1.85	0.75
37:4F:1082:LEU:HD21	38:4N:43:ASN:N	2.02	0.75
37:4F:1341:ILE:HG13	38:4N:30:ALA:C	2.12	0.75
37:4G:690:CYS:HA	38:4I:55:ALA:HA	1.69	0.75
37:4G:1083:ILE:CA	38:4L:34:ALA:O	2.35	0.75
37:4G:1138:VAL:HG22	37:4G:1144:LEU:HA	1.68	0.75
37:4H:1092:LEU:C	38:4M:36:VAL:HG13	2.10	0.75
37:4H:1137:ALA:HA	38:4M:33:LYS:HE2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1331:TRP:CD1	38:4M:27:ALA:CB	2.68	0.75
40:4T:598:GLU:HB3	40:4T:601:ALA:HB3	1.67	0.75
13:4d:222:PRO:HD2	12:4e:324:LYS:HG2	1.69	0.75
42:5H:135:ARG:HB3	43:5L:51:HIS:N	2.01	0.75
47:6B:396:SER:O	47:6B:399:LYS:HG2	1.87	0.75
3:6D:839:ASN:HB2	3:6D:842:HIS:CD2	2.22	0.75
12:8a:113:ILE:HA	12:8a:116:VAL:HG22	1.67	0.75
12:9a:35:THR:HG1	12:9a:37:HIS:HE2	1.34	0.75
13:9d:403:ALA:HB2	12:9e:344:TRP:HZ3	1.50	0.75
12:9e:50:TYR:OH	12:9e:237:THR:HG21	1.86	0.75
12:Ag:52:ASN:OD1	12:Ag:62:ARG:NH1	2.19	0.75
1:0E:52:ASP:O	1:0E:58:GLN:NE2	2.19	0.74
1:1B:52:ASP:H	1:1B:58:GLN:NE2	1.84	0.74
1:1B:52:ASP:N	1:1B:58:GLN:HE21	1.83	0.74
7:1O:227:VAL:HG11	7:1O:282:LEU:HD22	1.67	0.74
34:3S:352:LEU:HD21	34:3S:378:SER:OG	1.86	0.74
37:4E:584:ALA:C	37:4E:586:PHE:N	2.43	0.74
37:4E:1162:VAL:HG23	37:4E:1299:ARG:HH22	1.51	0.74
37:4F:1136:ARG:NH2	38:4N:29:LYS:HE2	2.02	0.74
37:4H:1092:LEU:HA	37:4H:1136:ARG:O	1.87	0.74
37:4H:1092:LEU:CB	37:4H:1136:ARG:O	2.35	0.74
38:4I:77:VAL:HG21	38:4L:84:LEU:CD2	2.16	0.74
40:4V:259:THR:HA	40:4V:262:GLN:HG2	1.66	0.74
12:4a:101:TRP:CD1	12:4a:145:SER:HG	2.04	0.74
42:5H:140:TYR:HA	42:5H:144:PHE:CE2	2.22	0.74
51:6N:2168:ALA:HB1	51:6N:2285:LEU:HD11	1.69	0.74
12:9a:50:TYR:OH	12:9a:237:THR:HG21	1.86	0.74
12:9a:235:GLY:HA3	12:9a:366:THR:HG21	1.69	0.74
12:Ag:87:PRO:HD3	12:Bg:281:TYR:CG	2.22	0.74
12:Ce:109:GLY:HA2	12:Ce:147:MET:SD	2.27	0.74
1:0E:52:ASP:N	1:0E:58:GLN:HE21	1.83	0.74
1:0F:105:PHE:HA	1:0F:108:ARG:NE	2.01	0.74
1:0X:350:ASP:HA	1:0X:353:LYS:HG3	1.69	0.74
1:0Y:332:ILE:HG13	1:0Y:370:HIS:CE1	2.22	0.74
1:1A:105:PHE:HA	1:1A:108:ARG:NE	2.02	0.74
10:1R:391:SER:H	10:1R:394:ARG:HH21	1.32	0.74
37:4F:1080:GLY:O	38:4N:39:HIS:CD2	2.40	0.74
37:4F:1082:LEU:HD22	38:4N:38:VAL:O	1.85	0.74
38:4J:53:LEU:HD21	38:4M:72:ARG:HD2	1.68	0.74
38:4K:38:VAL:O	38:4K:38:VAL:HG12	1.85	0.74
42:5H:134:LEU:C	43:5L:49:ALA:HB1	2.11	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:136:HIS:H	42:5H:137:TYR:H	1.35	0.74
42:5H:137:TYR:HB3	43:5L:49:ALA:H	0.60	0.74
42:5H:140:TYR:C	43:5L:47:LYS:CE	2.59	0.74
3:6D:988:TRP:HE1	48:6E:348:ASP:HB3	1.52	0.74
12:8a:91:VAL:HG21	12:8a:116:VAL:HG12	1.69	0.74
1:0H:52:ASP:O	1:0H:58:GLN:NE2	2.20	0.74
44:5P:132:ALA:HB1	44:5P:140:VAL:HG11	1.67	0.74
1:0A:92:LEU:HD11	1:0A:107:LEU:HD11	1.68	0.74
1:0E:143:GLU:HG3	1:0E:186:ILE:HG21	1.69	0.74
1:0G:62:ALA:HA	1:0G:65:LEU:HD12	1.68	0.74
1:0M:248:VAL:HG21	1:0M:285:LEU:HD22	1.69	0.74
1:0X:92:LEU:HD11	1:0X:107:LEU:HD11	1.69	0.74
2:1G:82:LEU:HD11	2:1G:118:PRO:CB	2.15	0.74
10:1S:373:SER:HB2	10:1S:378:LEU:HD21	1.69	0.74
12:1e:222:PHE:CE2	13:1f:248:LEU:HG	2.22	0.74
34:3N:48:HIS:CG	34:3N:222:LEU:HA	2.22	0.74
12:3a:396:HIS:NE2	13:3b:261:PRO:O	2.19	0.74
37:4E:581:LEU:HD12	43:5L:33:LEU:HB3	1.62	0.74
37:4E:587:ALA:N	43:5L:18:ILE:CG1	2.48	0.74
37:4G:518:LEU:HD11	37:4G:678:LEU:HD13	1.68	0.74
37:4H:429:TYR:HB2	37:4H:854:TYR:HE1	1.46	0.74
40:4T:259:THR:HA	40:4T:262:GLN:HG2	1.66	0.74
41:5A:141:ASN:CA	43:5L:168:GLU:CG	2.64	0.74
42:5H:91:TYR:CD2	43:5L:40:ASN:O	2.39	0.74
47:6B:569:ILE:HD11	47:6B:810:LEU:HD21	1.66	0.74
47:6B:1023:VAL:HG11	47:6B:1095:ALA:HB2	1.67	0.74
12:Ae:397:TRP:HZ2	13:Af:260:VAL:HB	1.51	0.74
1:0J:52:ASP:N	1:0J:58:GLN:HE21	1.83	0.74
1:0A:350:ASP:HA	1:0A:353:LYS:HG3	1.69	0.74
1:0D:332:ILE:HG13	1:0D:370:HIS:CE1	2.22	0.74
1:0R:350:ASP:HA	1:0R:353:LYS:HG3	1.68	0.74
1:0X:52:ASP:O	1:0X:58:GLN:NE2	2.21	0.74
3:1H:1010:LEU:CD1	47:6A:402:MET:HB2	2.16	0.74
5:1L:528:LEU:HD13	13:1b:159:VAL:HG21	1.67	0.74
10:1S:57:LYS:N	13:Ah:339:ARG:HH22	1.86	0.74
29:3E:1147:ASN:HB2	12:5e:392:LYS:HG3	1.69	0.74
30:3F:362:GLU:HB3	31:3I:448:LEU:HD12	1.68	0.74
34:4A:92:THR:HG21	34:4A:328:MET:HE1	1.68	0.74
37:4E:579:THR:CG2	37:4E:579:THR:OG1	2.35	0.74
37:4E:580:GLU:CA	43:5L:35:LYS:HE2	2.17	0.74
37:4E:1292:THR:HG21	37:4E:1756:PRO:HA	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:898:PRO:HB2	37:4F:901:VAL:HG12	1.69	0.74
37:4F:960:LEU:HD12	37:4F:969:LEU:O	1.86	0.74
37:4G:1185:LEU:HD13	37:4G:1279:LEU:HD12	1.68	0.74
37:4G:1335:MET:CA	38:4L:28:VAL:HA	2.17	0.74
37:4H:1341:ILE:HD13	38:4M:31:ALA:H	1.50	0.74
40:4V:259:THR:H	40:4V:262:GLN:HE21	1.36	0.74
40:4V:444:GLU:HG3	40:4V:473:ALA:CB	2.18	0.74
42:5H:49:ILE:CA	43:5L:144:TYR:HB2	2.14	0.74
42:5H:93:GLU:HA	43:5L:44:THR:OG1	1.87	0.74
42:5H:141:GLN:O	42:5H:145:SER:OG	2.05	0.74
43:5L:113:PRO:HA	44:5S:112:VAL:HG22	1.68	0.74
12:8a:33:THR:O	12:8a:58:ARG:NH1	2.19	0.74
12:9a:20:PHE:HA	12:9a:230:SER:HB2	1.70	0.74
1:0R:52:ASP:O	1:0R:58:GLN:NE2	2.20	0.74
1:0V:92:LEU:HD11	1:0V:107:LEU:HD11	1.69	0.74
4:1K:260:SER:OG	4:1K:264:TYR:OH	2.06	0.74
6:1N:2652:PHE:HE1	6:1N:2697:LEU:HD23	1.52	0.74
12:1e:218:THR:HG23	12:1e:219:THR:HG23	1.69	0.74
30:3F:289:ARG:HA	30:3F:293:LYS:HB2	1.69	0.74
37:4F:1073:LEU:HD21	37:4F:1379:ALA:HB2	1.70	0.74
37:4G:1336:ASP:H	38:4L:28:VAL:HG13	1.51	0.74
37:4H:770:ILE:HD13	37:4H:773:ARG:HE	1.51	0.74
37:4H:954:SER:CB	38:4M:48:PRO:HA	2.18	0.74
37:4H:1082:LEU:CD1	38:4M:39:HIS:CB	2.64	0.74
38:4J:29:LYS:O	38:4J:33:LYS:CD	2.36	0.74
40:4T:444:GLU:HG3	40:4T:473:ALA:CB	2.18	0.74
40:4U:598:GLU:HB3	40:4U:601:ALA:HB3	1.67	0.74
40:4V:616:HIS:O	40:4V:617:GLU:HB2	1.85	0.74
12:4a:20:PHE:HA	12:4a:230:SER:HB2	1.69	0.74
42:5H:139:LEU:N	43:5L:146:TYR:CE1	2.55	0.74
43:5K:12:SER:HA	43:5K:15:LEU:HB2	1.70	0.74
47:6A:956:GLU:HA	47:6A:959:HIS:CD2	2.23	0.74
51:6M:2168:ALA:HB1	51:6M:2285:LEU:HD11	1.69	0.74
12:Ba:35:THR:OG1	12:Ba:37:HIS:NE2	2.21	0.74
1:0M:105:PHE:HA	1:0M:108:ARG:NE	2.01	0.74
1:0Y:105:PHE:HA	1:0Y:108:ARG:HE	1.53	0.74
5:1M:552:HIS:CE1	12:1e:399:THR:HB	2.23	0.74
12:1a:179:VAL:HG11	13:1b:258:ASN:O	1.87	0.74
32:3J:358:ARG:CZ	12:9a:390:ARG:HA	2.17	0.74
37:4G:854:TYR:CD2	38:4L:82:TYR:CD2	2.74	0.74
37:4G:1158:PRO:HG3	37:4G:1325:ARG:HH21	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1303:VAL:HG12	37:4G:1317:ASP:HA	1.70	0.74
38:4I:29:LYS:O	38:4I:33:LYS:CD	2.36	0.74
40:4U:673:LEU:HG	40:4U:698:VAL:HG11	1.70	0.74
40:4V:639:TYR:HA	40:4V:642:LEU:HB2	1.68	0.74
42:5H:135:ARG:CB	43:5L:52:LEU:N	2.50	0.74
42:5H:137:TYR:CG	43:5L:46:PRO:C	2.64	0.74
43:5J:51:HIS:CD2	43:5J:146:TYR:OH	2.40	0.74
47:6B:956:GLU:HA	47:6B:959:HIS:CD2	2.23	0.74
1:0H:218:VAL:HB	1:0H:255:LYS:HD2	1.68	0.74
1:0A:52:ASP:O	1:0A:58:GLN:NE2	2.21	0.74
1:0F:334:GLU:OE2	39:4Q:129:ASN:ND2	2.20	0.74
1:0R:108:ARG:HD3	1:0R:147:TRP:HB3	1.70	0.74
2:1F:139:ARG:HD3	10:1S:323:SER:O	1.87	0.74
3:1H:983:ARG:HB3	47:6A:392:LEU:CD2	2.18	0.74
24:2T:131:CYS:HB3	24:2T:151:PHE:CD1	2.23	0.74
30:3F:301:VAL:CG1	13:6f:264:ARG:HB3	2.17	0.74
30:3G:536:HIS:CD2	13:7h:113:GLU:HB3	2.22	0.74
34:3M:266:HIS:O	34:3M:270:ILE:HG12	1.87	0.74
34:3M:398:ARG:O	34:3M:402:PRO:HD2	1.88	0.74
34:3T:345:ALA:HA	34:3T:348:LYS:HD3	1.69	0.74
37:4E:581:LEU:HA	43:5L:32:LEU:O	1.86	0.74
37:4F:1185:LEU:HD13	37:4F:1279:LEU:HD12	1.69	0.74
37:4G:935:ARG:NE	38:4L:49:ILE:HD11	2.02	0.74
37:4H:972:PHE:HE1	38:4M:41:LYS:CG	1.81	0.74
38:4I:64:GLY:O	38:4I:67:ALA:N	2.17	0.74
40:4T:673:LEU:HG	40:4T:698:VAL:HG11	1.70	0.74
40:4U:444:GLU:HG3	40:4U:473:ALA:CB	2.18	0.74
42:5H:84:THR:OG1	42:5H:94:CYS:HB3	1.87	0.74
42:5H:91:TYR:O	43:5L:45:ASN:N	2.21	0.74
42:5H:93:GLU:C	43:5L:44:THR:OG1	2.30	0.74
42:5H:135:ARG:CD	43:5L:52:LEU:HG	2.17	0.74
48:6E:952:LEU:HD12	48:6E:953:PRO:HD2	1.70	0.74
12:8e:50:TYR:OH	12:8e:237:THR:HG21	1.86	0.74
12:Aa:106:TYR:HB2	12:Aa:401:GLU:OE2	1.87	0.74
12:Ae:106:TYR:HB2	12:Ae:401:GLU:OE2	1.86	0.74
13:Db:222:PRO:O	12:Dc:322:SER:OG	2.04	0.74
1:0R:127:LEU:HD23	1:0R:163:VAL:HA	1.70	0.74
1:0R:249:GLY:CA	47:6B:337:ARG:HH12	1.96	0.74
1:0S:262:PHE:CE2	1:0S:264:ASP:HB3	2.23	0.74
1:0U:407:VAL:HB	1:0U:411:LEU:HD21	1.68	0.74
1:0V:104:ALA:O	1:0V:108:ARG:HG3	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0V:322:ALA:HA	1:0V:366:HIS:NE2	2.03	0.74
12:2a:101:TRP:CD1	12:2a:145:SER:HG	2.05	0.74
34:3R:248:PHE:O	34:3W:488:ARG:NH2	2.20	0.74
34:3S:398:ARG:O	34:3S:402:PRO:HD2	1.88	0.74
34:3Z:92:THR:HG21	34:3Z:328:MET:HE1	1.69	0.74
37:4F:539:GLN:NE2	37:4F:543:ASN:HD21	1.85	0.74
38:4M:25:PRO:O	38:4M:28:VAL:CB	2.34	0.74
39:4R:169:LEU:HD22	39:4R:178:ILE:HD12	1.70	0.74
40:4T:259:THR:H	40:4T:262:GLN:HE21	1.36	0.74
47:6B:619:LEU:HD21	47:6B:709:LEU:HD22	1.69	0.74
12:9a:170:VAL:HG21	12:9a:201:VAL:HG23	1.69	0.74
12:Be:101:TRP:CD1	12:Be:145:SER:HG	2.05	0.74
12:Ca:274:THR:OG1	12:Ca:282:ARG:NH1	2.21	0.74
1:0B:105:PHE:HA	1:0B:108:ARG:HE	1.53	0.74
1:0E:322:ALA:HA	1:0E:366:HIS:NE2	2.03	0.74
1:0S:69:ALA:O	1:0S:113:HIS:NE2	2.21	0.74
1:0S:89:VAL:HG11	1:0S:125:GLY:HA3	1.69	0.74
1:0X:282:THR:HB	1:0X:285:LEU:HB2	1.68	0.74
1:1C:93:SER:OG	1:1C:95:GLN:NE2	2.20	0.74
3:1H:222:LEU:HD22	3:1H:235:MET:HE1	1.70	0.74
3:1H:1005:PRO:HG2	47:6A:402:MET:SD	2.27	0.74
4:1K:200:VAL:O	4:1K:282:LEU:HA	1.88	0.74
10:1R:263:ASP:OD1	10:1R:266:ARG:CZ	2.35	0.74
30:3F:271:LYS:HD3	12:6e:424:GLN:HE22	1.52	0.74
30:3F:437:ILE:HG21	13:7d:159:VAL:HG22	1.70	0.74
34:3P:121:LEU:HD22	34:3P:357:LEU:HD12	1.70	0.74
12:3g:396:HIS:HA	12:3g:399:THR:HG22	1.70	0.74
37:4F:1321:THR:CG2	37:4F:1322:ARG:N	2.05	0.74
37:4H:541:ALA:HA	38:4J:49:ILE:HG21	1.70	0.74
37:4H:1323:ILE:CA	38:4M:25:PRO:HB2	2.16	0.74
37:4H:1335:MET:CE	38:4M:28:VAL:HG13	2.18	0.74
43:5J:12:SER:HA	43:5J:15:LEU:HB2	1.70	0.74
47:6A:772:ARG:HH22	48:6F:61:ARG:HG2	1.52	0.74
12:8e:113:ILE:HA	12:8e:116:VAL:HG22	1.67	0.74
12:Be:86:ARG:NH2	12:Ce:282:ARG:HB2	2.02	0.74
12:Ca:35:THR:OG1	12:Ca:37:HIS:NE2	2.19	0.74
12:De:235:GLY:HA3	12:De:366:THR:HG21	1.70	0.74
1:0O:59:GLN:OE1	1:0O:96:ASN:ND2	2.20	0.74
12:1e:50:TYR:OH	12:1e:237:THR:HG21	1.87	0.74
12:2a:113:ILE:HA	12:2a:116:VAL:HG22	1.67	0.74
28:3C:577:GLN:HE22	12:3g:261:PRO:HD2	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:770:ILE:HD13	37:4F:773:ARG:HE	1.51	0.74
37:4F:1082:LEU:CB	38:4N:38:VAL:C	2.51	0.74
37:4F:1093:VAL:CA	38:4N:36:VAL:CG2	2.22	0.74
37:4F:1315:VAL:HB	37:4F:1323:ILE:CB	2.18	0.74
37:4G:1334:GLU:H	38:4L:28:VAL:N	1.84	0.74
38:4M:29:LYS:O	38:4M:33:LYS:CD	2.36	0.74
40:4V:673:LEU:HG	40:4V:698:VAL:HG11	1.70	0.74
42:5E:135:ARG:HD3	43:5I:57:HIS:NE2	2.03	0.74
42:5H:134:LEU:HA	43:5L:49:ALA:CB	2.17	0.74
43:5L:51:HIS:CD2	43:5L:146:TYR:OH	2.40	0.74
12:5e:50:TYR:OH	12:5e:237:THR:HG21	1.87	0.74
48:6F:952:LEU:HD12	48:6F:953:PRO:HD2	1.70	0.74
12:7g:60:VAL:HG11	12:7g:86:ARG:HH21	1.53	0.74
12:8e:33:THR:O	12:8e:58:ARG:NH1	2.20	0.74
12:Ae:58:ARG:HH21	12:Ae:86:ARG:NH1	1.81	0.74
12:Da:235:GLY:HA3	12:Da:366:THR:HG21	1.70	0.74
1:0E:195:SER:O	1:0E:239:HIS:HE1	1.71	0.73
1:0G:105:PHE:HA	1:0G:108:ARG:NE	2.01	0.73
1:0Z:383:LEU:HB3	1:0Z:400:CYS:SG	2.28	0.73
5:1M:541:LEU:HD11	13:1f:163:LYS:HE3	1.70	0.73
34:3W:233:ALA:HB2	34:3Y:328:MET:HE1	1.70	0.73
37:4E:1742:LYS:O	37:4E:1744:GLU:N	2.21	0.73
37:4G:770:ILE:HD13	37:4G:773:ARG:HE	1.52	0.73
37:4G:855:LYS:O	38:4L:86:SER:HA	1.88	0.73
37:4G:1074:GLN:OE1	38:4L:38:VAL:CG1	2.36	0.73
37:4H:1073:LEU:HD21	37:4H:1379:ALA:HB2	1.70	0.73
37:4H:1091:VAL:HG21	38:4M:30:ALA:HB1	1.70	0.73
37:4H:1136:ARG:HD2	38:4M:32:GLU:HG2	1.69	0.73
40:4U:259:THR:H	40:4U:262:GLN:HE21	1.36	0.73
40:4U:729:LEU:HB2	40:4U:818:MET:HE1	1.69	0.73
12:4e:33:THR:O	12:4e:58:ARG:NH1	2.21	0.73
44:5V:20:PHE:HZ	44:5V:29:GLY:O	1.71	0.73
47:6A:137:HIS:HE1	47:6A:142:GLU:HB3	1.52	0.73
12:6e:60:VAL:HB	12:6e:86:ARG:HD3	1.68	0.73
12:8a:174:LYS:NZ	13:8b:333:ALA:HA	2.02	0.73
12:8e:101:TRP:CD1	12:8e:145:SER:HG	2.05	0.73
12:Bg:20:PHE:HA	12:Bg:230:SER:HB2	1.70	0.73
13:Cf:222:PRO:HD2	12:Cg:324:LYS:HG2	1.70	0.73
1:0C:282:THR:HB	1:0C:285:LEU:HB2	1.69	0.73
1:0R:322:ALA:HB2	1:0R:362:GLN:HG2	1.70	0.73
1:0U:163:VAL:HG12	1:0U:168:ALA:HB2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:367:THR:HB	1:1C:370:HIS:ND1	2.03	0.73
4:1J:200:VAL:O	4:1J:282:LEU:HA	1.88	0.73
7:1O:1362:GLU:OE2	7:1O:1512:ARG:NE	2.20	0.73
12:1a:256:ASN:HB2	12:1a:350:LYS:HD2	1.68	0.73
34:3X:92:THR:HG21	34:3X:328:MET:HE1	1.68	0.73
37:4E:574:LEU:HD23	43:5L:30:ARG:NH2	2.03	0.73
37:4E:1111:VAL:HA	42:5H:42:ARG:O	1.88	0.73
37:4F:1304:MET:H	37:4F:1316:GLN:CB	1.99	0.73
37:4G:1335:MET:CE	37:4G:1339:ALA:O	2.36	0.73
43:5I:12:SER:HA	43:5I:15:LEU:HB2	1.70	0.73
43:5K:51:HIS:CD2	43:5K:146:TYR:OH	2.40	0.73
47:6A:619:LEU:HD21	47:6A:709:LEU:HD22	1.69	0.73
12:9e:176:SER:OG	13:9f:349:THR:HB	1.88	0.73
3:1H:1007:ARG:CB	3:1H:1009:ARG:HG2	2.18	0.73
10:1S:426:TRP:NE1	12:Ae:77:ARG:HH22	1.86	0.73
12:1a:35:THR:OG1	12:1a:37:HIS:NE2	2.21	0.73
23:2Q:18:UNK:O	13:2h:123:ARG:NE	2.20	0.73
24:2T:185:ALA:HA	24:2T:188:ASN:HD22	1.54	0.73
37:4H:1084:ARG:HB3	38:4M:38:VAL:N	2.03	0.73
39:4Q:169:LEU:HD22	39:4Q:178:ILE:HD12	1.70	0.73
12:4g:178:THR:OG1	12:4g:181:GLU:OE2	2.05	0.73
12:5e:134:GLN:HA	12:5e:165:LEU:O	1.88	0.73
47:6B:109:THR:O	47:6B:112:MET:HB2	1.88	0.73
12:9a:134:GLN:HA	12:9a:165:LEU:O	1.88	0.73
1:0C:206:VAL:HG21	1:0C:243:LEU:HD22	1.69	0.73
31:3I:285:ARG:NH2	13:9h:396:ASP:HB2	2.04	0.73
34:3P:474:TRP:CH2	34:3S:493:LYS:HA	2.24	0.73
12:3g:20:PHE:HA	12:3g:230:SER:HB2	1.69	0.73
13:3h:431:ASP:CG	39:4Q:167:HIS:HD2	1.96	0.73
37:4E:1112:ALA:N	42:5H:42:ARG:O	2.19	0.73
37:4E:1302:ASN:HB3	43:5L:121:PHE:HE2	1.52	0.73
37:4G:1082:LEU:CD1	38:4L:36:VAL:HB	2.17	0.73
37:4H:1333:VAL:HG11	38:4M:27:ALA:C	2.12	0.73
37:4H:1333:VAL:HA	38:4M:24:THR:O	1.88	0.73
38:4I:28:VAL:CG2	42:5E:100:GLY:CA	2.46	0.73
38:4K:25:PRO:O	38:4K:28:VAL:CB	2.34	0.73
40:4T:729:LEU:HB2	40:4T:818:MET:HE1	1.70	0.73
12:4a:50:TYR:OH	12:4a:237:THR:HG21	1.87	0.73
42:5H:56:TYR:HE2	43:5L:141:LEU:CD2	1.93	0.73
42:5H:92:THR:N	43:5L:45:ASN:HD22	1.85	0.73
43:5I:51:HIS:CD2	43:5I:146:TYR:OH	2.40	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:6K:155:ASN:HB2	50:6K:158:GLN:HG3	1.69	0.73
12:8g:178:THR:HG22	12:8g:181:GLU:HG3	1.71	0.73
12:Be:68:LEU:HD23	12:Be:143:THR:HG23	1.70	0.73
1:0P:218:VAL:HB	1:0P:255:LYS:HD2	1.69	0.73
1:0S:105:PHE:HA	1:0S:108:ARG:HE	1.54	0.73
10:1R:295:MET:SD	31:3H:132:LYS:HB3	2.29	0.73
10:1R:445:TRP:CZ3	12:Ba:231:ALA:HB2	2.22	0.73
33:3L:69:LEU:HD23	33:3L:89:PHE:CE2	2.23	0.73
34:3M:271:ALA:HA	34:3M:274:ILE:HD12	1.70	0.73
34:4A:122:GLN:HB3	34:4A:126:PHE:HE1	1.52	0.73
36:4D:156:LEU:O	36:4D:188:ARG:NH2	2.22	0.73
37:4E:567:LEU:HD21	42:5H:103:LEU:HD11	1.69	0.73
37:4F:525:GLU:HG2	37:4F:1078:PRO:HB2	1.69	0.73
37:4H:1085:MET:HB2	37:4H:1367:VAL:CG1	2.14	0.73
37:4H:1185:LEU:HD13	37:4H:1279:LEU:HD12	1.69	0.73
38:4K:29:LYS:O	38:4K:33:LYS:CD	2.36	0.73
38:4N:29:LYS:O	38:4N:33:LYS:CD	2.36	0.73
41:5A:141:ASN:CA	43:5L:167:PRO:HA	2.19	0.73
47:6A:109:THR:O	47:6A:112:MET:HB2	1.88	0.73
47:6B:137:HIS:HE1	47:6B:142:GLU:HB3	1.52	0.73
12:Cc:68:LEU:HD23	12:Cc:143:THR:HG22	1.71	0.73
1:0A:262:PHE:HE2	1:0A:264:ASP:HB3	1.52	0.73
1:0M:180:GLU:HB3	1:0M:183:LEU:HD12	1.70	0.73
2:1F:8:LEU:HD11	13:Ah:429:GLU:OE1	1.88	0.73
4:1K:27:ALA:HB3	4:1K:57:TRP:HE1	1.53	0.73
30:3F:466:VAL:HG22	12:7c:157:GLU:HB2	1.70	0.73
34:3N:100:ILE:HG23	34:3N:390:LEU:HD11	1.68	0.73
34:3V:244:ARG:HG3	34:3V:246:SER:HB3	1.69	0.73
12:3a:189:VAL:O	12:3a:193:VAL:HG23	1.88	0.73
37:4G:671:LEU:HD13	38:4I:40:LYS:HB2	1.69	0.73
37:4G:1082:LEU:HG	38:4L:36:VAL:HB	1.64	0.73
12:5a:35:THR:OG1	12:5a:37:HIS:NE2	2.21	0.73
47:6B:1634:PRO:HB3	51:6N:1908:VAL:HG11	1.69	0.73
50:6L:155:ASN:HB2	50:6L:158:GLN:HG3	1.69	0.73
12:7e:35:THR:OG1	12:7e:37:HIS:NE2	2.21	0.73
12:9e:33:THR:O	12:9e:58:ARG:NH1	2.21	0.73
1:0D:368:PRO:HA	1:0D:410:LYS:HB3	1.70	0.73
1:0L:127:LEU:HD13	1:0L:163:VAL:HA	1.70	0.73
1:0Z:206:VAL:HG21	1:0Z:243:LEU:HD22	1.70	0.73
4:1J:27:ALA:HB3	4:1J:57:TRP:HE1	1.53	0.73
6:1N:2537:LEU:HA	6:1N:2540:LEU:HD12	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1S:175:ARG:NH2	13:Af:423:GLU:OE2	2.21	0.73
14:2G:75:ARG:NH2	13:Cf:358:GLN:OE1	2.22	0.73
24:2U:171:LYS:HZ1	13:Dd:340:THR:HA	1.53	0.73
32:3K:27:ASN:HB3	32:3K:30:THR:HG22	1.69	0.73
13:3h:427:ALA:HB1	39:4Q:167:HIS:NE2	2.03	0.73
37:4E:574:LEU:HB3	42:5H:95:GLU:OE2	1.89	0.73
37:4E:581:LEU:CA	43:5L:34:ALA:N	2.52	0.73
37:4F:1076:THR:OG1	38:4N:42:ILE:CD1	2.36	0.73
37:4G:1334:GLU:HG3	37:4G:1340:PRO:N	2.04	0.73
38:4N:61:LEU:HD23	38:4N:84:LEU:HD11	1.71	0.73
39:4S:169:LEU:HD22	39:4S:178:ILE:HD12	1.70	0.73
13:4d:264:ARG:NH2	13:4d:424:ASP:OD1	2.22	0.73
13:4h:264:ARG:NH2	13:4h:424:ASP:OD1	2.22	0.73
47:6A:1634:PRO:HB3	51:6M:1908:VAL:HG11	1.69	0.73
13:7b:264:ARG:NH2	13:7b:424:ASP:OD1	2.22	0.73
12:Ba:101:TRP:HD1	12:Ba:145:SER:HG	1.34	0.73
13:Ch:264:ARG:NH2	13:Ch:424:ASP:OD1	2.22	0.73
1:0L:368:PRO:HA	1:0L:410:LYS:HB3	1.71	0.73
1:0R:69:ALA:O	1:0R:113:HIS:NE2	2.22	0.73
10:1S:75:LEU:HD21	10:1S:125:LEU:HB3	1.70	0.73
24:2T:199:ARG:NH1	24:2T:202:ARG:HD3	2.04	0.73
13:3h:264:ARG:NH2	13:3h:424:ASP:OD1	2.22	0.73
37:4F:1084:ARG:HG2	37:4F:1092:LEU:HD12	1.68	0.73
37:4F:1136:ARG:HG3	38:4N:33:LYS:NZ	2.04	0.73
37:4F:1334:GLU:N	38:4N:31:ALA:N	2.37	0.73
37:4G:690:CYS:CB	38:4I:54:GLU:C	2.62	0.73
37:4H:1136:ARG:HG3	38:4M:33:LYS:HZ3	1.51	0.73
38:4J:25:PRO:O	38:4J:28:VAL:CB	2.34	0.73
41:5A:144:HIS:HA	41:5A:164:GLY:HA2	1.69	0.73
42:5H:137:TYR:CD2	43:5L:48:THR:N	2.56	0.73
13:5b:264:ARG:NH2	13:5b:424:ASP:OD1	2.22	0.73
50:6L:206:LEU:HD11	50:6L:235:GLY:HA2	1.71	0.73
13:Cf:264:ARG:NH2	13:Cf:424:ASP:OD1	2.22	0.73
1:0B:89:VAL:HG11	1:0B:125:GLY:HA3	1.71	0.73
1:1A:368:PRO:HA	1:1A:410:LYS:HB3	1.70	0.73
13:3f:264:ARG:NH2	13:3f:424:ASP:OD1	2.22	0.73
34:4B:119:MET:SD	34:4B:372:GLN:NE2	2.60	0.73
37:4E:585:VAL:C	43:5L:10:LEU:HD21	2.13	0.73
37:4G:1075:VAL:HG13	37:4G:1083:ILE:CB	2.19	0.73
37:4G:1082:LEU:HD21	38:4L:36:VAL:HB	1.70	0.73
38:4J:61:LEU:HD23	38:4J:84:LEU:HD11	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4b:264:ARG:NH2	13:4b:424:ASP:OD1	2.22	0.73
13:4f:264:ARG:NH2	13:4f:424:ASP:OD1	2.22	0.73
42:5F:157:LEU:HG	43:5J:154:ALA:CA	2.19	0.73
43:5L:12:SER:HA	43:5L:15:LEU:HB2	1.70	0.73
12:5a:42:LEU:HA	12:5a:45:GLU:HG2	1.69	0.73
47:6B:344:LYS:HA	47:6B:347:ARG:HD2	1.71	0.73
3:6D:987:VAL:O	3:6D:991:ILE:HG13	1.88	0.73
12:9e:68:LEU:HD23	12:9e:143:THR:HG23	1.71	0.73
12:Be:70:PRO:HB2	13:Bf:1:MET:HE2	1.70	0.73
13:Cd:264:ARG:NH2	13:Cd:424:ASP:OD1	2.22	0.73
1:0J:173:VAL:HG22	1:0J:210:ALA:HB2	1.69	0.73
1:0A:7:LEU:HD21	47:6B:137:HIS:CD2	2.24	0.73
1:0T:206:VAL:HG21	1:0T:243:LEU:HD22	1.70	0.73
10:1S:367:GLY:O	12:Bg:336:LYS:NZ	2.22	0.73
13:1d:220:GLU:OE2	14:2F:39:PRO:HG2	1.88	0.73
15:2H:161:UNK:CB	12:7g:77:ARG:HH21	2.02	0.73
24:2T:143:SER:HA	13:Ch:116:ASP:OD2	1.89	0.73
30:3F:301:VAL:HG21	13:6f:428:LEU:CA	2.18	0.73
34:3W:338:LEU:HD21	34:3W:393:ALA:HB2	1.71	0.73
34:4B:338:LEU:HD21	34:4B:393:ALA:HB2	1.71	0.73
37:4E:1120:GLY:HA2	43:5L:140:LYS:HZ1	1.53	0.73
37:4F:1074:GLN:NE2	38:4N:41:LYS:C	2.45	0.73
37:4F:1333:VAL:CA	38:4N:30:ALA:HB3	2.17	0.73
37:4G:856:MET:HE2	38:4L:85:LEU:HA	1.71	0.73
37:4H:953:PRO:HB3	38:4M:44:LEU:C	2.14	0.73
37:4H:972:PHE:HE1	38:4M:41:LYS:CE	2.02	0.73
37:4H:1082:LEU:HD23	38:4M:36:VAL:HG12	1.70	0.73
37:4H:1085:MET:HE3	37:4H:1091:VAL:CG1	2.19	0.73
38:4L:61:LEU:HD23	38:4L:84:LEU:HD11	1.71	0.73
40:4V:729:LEU:HB2	40:4V:818:MET:HE1	1.69	0.73
42:5H:137:TYR:O	42:5H:140:TYR:N	2.22	0.73
47:6A:344:LYS:HA	47:6A:347:ARG:HD2	1.71	0.73
47:6A:1085:ALA:O	47:6A:1089:LYS:HG2	1.89	0.73
49:6G:133:ASP:OD2	49:6G:395:THR:OG1	2.07	0.73
50:6K:206:LEU:HD11	50:6K:235:GLY:HA2	1.71	0.73
13:9d:264:ARG:NH2	13:9d:424:ASP:OD1	2.22	0.73
1:0D:412:THR:HG23	1:0D:413:HIS:H	1.54	0.72
1:0R:92:LEU:HD11	1:0R:107:LEU:HD11	1.70	0.72
3:1H:984:GLN:OE1	48:6F:348:ASP:HA	1.89	0.72
32:3J:42:ARG:HH21	32:3J:43:ILE:HG12	1.53	0.72
32:3J:101:PRO:O	12:Ac:425:TYR:OH	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3T:193:LEU:HD13	34:3T:204:MET:HE1	1.71	0.72
13:3b:264:ARG:NH2	13:3b:424:ASP:OD1	2.22	0.72
37:4E:975:VAL:HG21	38:4O:39:HIS:CE1	2.24	0.72
37:4F:1082:LEU:CD1	38:4N:39:HIS:O	2.36	0.72
37:4F:1082:LEU:H	38:4N:39:HIS:CG	2.06	0.72
42:5G:139:LEU:CD2	43:5K:50:ILE:HD12	2.19	0.72
13:5d:264:ARG:NH2	13:5d:424:ASP:OD1	2.22	0.72
13:6b:264:ARG:NH2	13:6b:424:ASP:OD1	2.22	0.72
12:7a:50:TYR:OH	12:7a:237:THR:HG21	1.89	0.72
13:8d:264:ARG:NH2	13:8d:424:ASP:OD1	2.22	0.72
13:9h:264:ARG:NH2	13:9h:424:ASP:OD1	2.22	0.72
13:Cb:264:ARG:NH2	13:Cb:424:ASP:OD1	2.22	0.72
13:Db:264:ARG:NH2	13:Db:424:ASP:OD1	2.22	0.72
1:0J:278:VAL:HG23	1:0J:285:LEU:HD23	1.70	0.72
1:0A:335:LYS:NZ	31:3I:206:GLU:OE2	2.22	0.72
1:0F:257:LEU:HD21	1:0F:294:GLY:HA2	1.71	0.72
1:0O:248:VAL:HG21	1:0O:285:LEU:HD22	1.71	0.72
1:1A:332:ILE:HG13	1:1A:370:HIS:CE1	2.23	0.72
1:1B:206:VAL:HG21	1:1B:243:LEU:HD22	1.71	0.72
1:1B:218:VAL:HG22	1:1B:229:VAL:HG11	1.71	0.72
4:1J:260:SER:OG	4:1J:264:TYR:OH	2.06	0.72
6:1N:407:VAL:O	6:1N:411:VAL:HG23	1.88	0.72
7:1O:2878:LEU:CD2	7:1O:3001:LYS:HG3	2.20	0.72
10:1R:365:VAL:HB	12:Bc:336:LYS:HB3	1.71	0.72
22:2P:51:UNK:O	13:5f:123:ARG:NH1	2.22	0.72
12:2e:60:VAL:HG12	12:2e:86:ARG:NE	2.05	0.72
12:2g:222:PHE:HE2	13:2h:247:ALA:HB1	1.54	0.72
32:3J:305:MET:HE2	12:Aa:309:ARG:HD2	1.69	0.72
34:3O:459:ILE:HA	34:3O:462:GLU:OE2	1.88	0.72
34:3P:99:ARG:O	34:3P:103:LEU:HG	1.90	0.72
13:3d:264:ARG:NH2	13:3d:424:ASP:OD1	2.22	0.72
37:4E:579:THR:N	43:5L:35:LYS:HE3	2.03	0.72
37:4E:1335:MET:HE2	37:4E:1338:PHE:HB2	1.71	0.72
37:4F:585:VAL:HG11	43:5K:33:LEU:CD2	2.19	0.72
37:4F:1093:VAL:CG1	38:4N:33:LYS:CE	2.66	0.72
37:4F:1304:MET:HE3	43:5K:122:MET:HE2	1.70	0.72
37:4F:1315:VAL:N	38:4N:26:GLU:OE1	2.20	0.72
37:4G:1734:PHE:HD2	37:4G:1736:ARG:NH1	1.87	0.72
37:4H:1753:GLN:HE22	38:4M:24:THR:HG21	1.54	0.72
38:4L:29:LYS:O	38:4L:33:LYS:CD	2.36	0.72
38:4M:61:LEU:HD23	38:4M:84:LEU:HD11	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:61:ALA:HB1	42:5H:71:THR:HG22	1.71	0.72
50:6K:545:LYS:HE2	50:6K:591:GLN:HG2	1.71	0.72
12:7c:113:ILE:HA	12:7c:116:VAL:HG12	1.71	0.72
13:7d:264:ARG:NH2	13:7d:424:ASP:OD1	2.22	0.72
13:7f:264:ARG:NH2	13:7f:424:ASP:OD1	2.22	0.72
13:8b:264:ARG:NH2	13:8b:424:ASP:OD1	2.22	0.72
12:8e:253:LEU:HD11	12:8e:316:LEU:HD21	1.70	0.72
13:9d:100:ALA:HA	12:9e:252:LYS:HG2	1.71	0.72
1:0H:133:CYS:SG	1:0H:145:SER:HB3	2.29	0.72
1:0I:417:LEU:HA	1:0I:420:LEU:HD12	1.71	0.72
1:0P:104:ALA:O	1:0P:108:ARG:HG3	1.89	0.72
1:0Y:89:VAL:HG11	1:0Y:125:GLY:HA3	1.71	0.72
3:1H:851:SER:OG	47:6A:384:GLU:CD	2.32	0.72
24:2T:199:ARG:HA	24:2T:199:ARG:NH1	2.04	0.72
36:4D:91:VAL:HB	36:4D:97:SER:OG	1.90	0.72
36:4D:103:LEU:HG	36:4D:107:PHE:HE2	1.53	0.72
36:4D:233:LEU:HD21	36:4D:241:VAL:HG23	1.71	0.72
37:4E:773:ARG:NH2	37:4E:1622:PRO:HD2	2.04	0.72
37:4E:855:LYS:O	38:4O:82:TYR:OH	2.08	0.72
37:4F:506:MET:HE2	37:4F:547:GLY:HA2	1.71	0.72
37:4G:672:PHE:C	38:4I:39:HIS:HD1	1.95	0.72
37:4G:1336:ASP:N	38:4L:28:VAL:HG13	2.05	0.72
38:4I:61:LEU:HD23	38:4I:84:LEU:HD11	1.71	0.72
38:4K:61:LEU:HD23	38:4K:84:LEU:HD11	1.71	0.72
13:4f:222:PRO:HD2	12:4g:324:LYS:HG2	1.71	0.72
43:5K:55:TYR:HB3	43:5K:76:PHE:HE2	1.55	0.72
13:5d:222:PRO:O	12:5e:322:SER:OG	2.07	0.72
12:5e:33:THR:O	12:5e:58:ARG:NH1	2.22	0.72
13:5h:264:ARG:NH2	13:5h:424:ASP:OD1	2.22	0.72
49:6G:186:ILE:HD13	49:6G:475:ILE:HG21	1.72	0.72
49:6H:133:ASP:OD2	49:6H:395:THR:OG1	2.07	0.72
49:6I:116:ILE:HD11	49:6I:148:LEU:HD21	1.69	0.72
49:6J:116:ILE:HD11	49:6J:148:LEU:HD21	1.69	0.72
50:6K:159:ARG:HH22	50:6K:178:ASN:ND2	1.87	0.72
13:6f:264:ARG:NH2	13:6f:424:ASP:OD1	2.22	0.72
13:6h:264:ARG:NH2	13:6h:424:ASP:OD1	2.22	0.72
13:7d:97:GLU:OE1	12:7e:251:ARG:NH1	2.23	0.72
13:8f:264:ARG:NH2	13:8f:424:ASP:OD1	2.22	0.72
13:9d:100:ALA:O	12:9e:255:VAL:HG21	1.89	0.72
12:9e:35:THR:OG1	12:9e:37:HIS:NE2	2.23	0.72
12:Ca:20:PHE:HA	12:Ca:230:SER:HB2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0J:253:PHE:CZ	1:0J:278:VAL:HG11	2.24	0.72
2:1F:367:VAL:HG21	2:1F:386:LEU:HD23	1.71	0.72
3:1H:242:GLN:HE21	3:1H:496:VAL:HG22	1.54	0.72
10:1S:58:THR:N	13:Ah:339:ARG:HH21	1.86	0.72
10:1S:172:VAL:HG11	13:Af:396:ASP:OD1	1.88	0.72
12:1g:178:THR:OG1	12:1g:181:GLU:OE2	2.05	0.72
25:2W:26:UNK:O	13:2b:264:ARG:HD3	1.89	0.72
13:2f:264:ARG:NH2	13:2f:424:ASP:OD1	2.22	0.72
29:3E:1150:TYR:OH	29:3E:1154:ARG:NH2	2.21	0.72
30:3F:301:VAL:CG1	13:6f:264:ARG:HE	2.02	0.72
12:3e:20:PHE:HA	12:3e:230:SER:HB2	1.71	0.72
35:4C:704:PRO:HG2	35:4C:717:PHE:CD2	2.24	0.72
37:4F:958:LEU:HD22	38:4N:45:ALA:HB1	1.71	0.72
37:4G:1341:ILE:HD11	38:4L:31:ALA:H	1.52	0.72
37:4H:1136:ARG:HD2	38:4M:29:LYS:HD2	1.71	0.72
37:4H:1734:PHE:HD2	37:4H:1736:ARG:NH1	1.87	0.72
42:5H:135:ARG:CG	43:5L:55:TYR:H	1.93	0.72
43:5J:112:PRO:HB2	44:5T:116:LEU:HG	1.71	0.72
47:6B:1085:ALA:O	47:6B:1089:LYS:HG2	1.89	0.72
13:6d:264:ARG:NH2	13:6d:424:ASP:OD1	2.22	0.72
13:7h:264:ARG:NH2	13:7h:424:ASP:OD1	2.22	0.72
12:8e:278:SER:CA	12:8e:281:TYR:HB2	2.17	0.72
12:Aa:362:LYS:HD3	12:Aa:363:MET:HG3	1.71	0.72
13:Bb:264:ARG:NH2	13:Bb:424:ASP:OD1	2.22	0.72
13:Dd:264:ARG:NH2	13:Dd:424:ASP:OD1	2.22	0.72
1:0C:108:ARG:HD3	1:0C:147:TRP:HB3	1.70	0.72
1:0C:218:VAL:HB	1:0C:255:LYS:HD2	1.72	0.72
1:0R:195:SER:O	1:0R:239:HIS:NE2	2.23	0.72
6:1N:453:ARG:HB3	6:1N:488:CYS:SG	2.30	0.72
10:1S:398:VAL:HG13	13:Af:123:ARG:HH22	1.53	0.72
14:2G:106:TRP:NE1	12:Be:77:ARG:HD2	2.03	0.72
13:2b:264:ARG:NH2	13:2b:424:ASP:OD1	2.22	0.72
30:3F:304:ARG:HB2	13:6f:264:ARG:NH2	2.04	0.72
34:3O:361:LEU:HD11	34:3O:368:LEU:HD21	1.71	0.72
34:3P:119:MET:HA	34:3P:119:MET:HE3	1.71	0.72
12:3a:170:VAL:HG21	12:3a:201:VAL:HG13	1.69	0.72
35:4C:456:PRO:HD3	35:4C:470:ASN:HB2	1.72	0.72
37:4E:585:VAL:C	43:5L:10:LEU:CD1	2.56	0.72
37:4F:1341:ILE:HG23	37:4F:1350:ILE:HG12	1.71	0.72
37:4G:586:PHE:CZ	43:5I:72:LEU:HD21	2.24	0.72
47:6A:781:GLU:HB3	47:6A:787:LEU:HD12	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:409:ARG:CZ	3:6D:1006:ASP:OD1	2.37	0.72
3:6D:601:LEU:O	3:6D:605:VAL:HG23	1.90	0.72
49:6H:186:ILE:HD13	49:6H:475:ILE:HG21	1.72	0.72
50:6K:68:VAL:HG11	50:6K:105:ILE:HD13	1.71	0.72
50:6K:77:ARG:NH2	50:6K:232:THR:HG21	2.04	0.72
12:8a:131:GLN:NE2	12:8a:250:LEU:HB2	2.04	0.72
13:Bf:177:VAL:HB	12:Bg:331:LEU:HD22	1.72	0.72
13:Bf:264:ARG:NH2	13:Bf:424:ASP:OD1	2.22	0.72
12:Ca:179:VAL:HG23	13:Cb:352:LYS:HB2	1.71	0.72
12:Cg:86:ARG:HH12	12:Dg:281:TYR:C	1.96	0.72
13:Df:264:ARG:NH2	13:Df:424:ASP:OD1	2.22	0.72
1:0K:311:LEU:HD21	1:0K:352:LEU:HA	1.71	0.72
1:0A:219:ILE:HG12	1:0A:255:LYS:CD	2.15	0.72
1:0E:253:PHE:CZ	1:0E:278:VAL:HG11	2.23	0.72
1:0N:52:ASP:O	1:0N:58:GLN:NE2	2.23	0.72
1:0X:34:ILE:HG23	1:0X:68:LEU:HD23	1.71	0.72
1:0X:262:PHE:HE2	1:0X:264:ASP:HB3	1.52	0.72
1:0Z:282:THR:HB	1:0Z:285:LEU:HB2	1.70	0.72
1:1C:257:LEU:HD21	1:1C:294:GLY:HA2	1.72	0.72
1:1C:311:LEU:HD21	1:1C:352:LEU:HA	1.70	0.72
4:1K:25:LYS:HE2	13:Bd:415:GLU:N	2.04	0.72
13:1b:264:ARG:NH2	13:1b:424:ASP:OD1	2.22	0.72
24:2U:152:GLU:HA	13:Dd:176:GLN:NE2	2.04	0.72
30:3F:344:ASN:HD21	12:7g:194:GLU:HA	1.55	0.72
30:3G:721:PHE:CE2	13:6b:112:LYS:HB3	2.21	0.72
30:3G:725:TYR:CZ	13:6b:156:ARG:NH1	2.58	0.72
37:4E:589:PRO:HB3	43:5L:19:ARG:H	1.54	0.72
37:4F:969:LEU:HA	37:4F:1074:GLN:C	2.08	0.72
12:4g:52:ASN:OD1	12:4g:62:ARG:NH1	2.23	0.72
12:5c:113:ILE:HA	12:5c:116:VAL:HG22	1.71	0.72
13:5f:264:ARG:NH2	13:5f:424:ASP:OD1	2.22	0.72
50:6L:68:VAL:HG11	50:6L:105:ILE:HD13	1.71	0.72
50:6L:545:LYS:HE2	50:6L:591:GLN:HG2	1.71	0.72
12:8e:134:GLN:HA	12:8e:165:LEU:O	1.89	0.72
12:Bc:52:ASN:OD1	12:Bc:62:ARG:NH1	2.22	0.72
1:0K:367:THR:HB	1:0K:370:HIS:ND1	2.05	0.72
1:0N:127:LEU:HD13	1:0N:163:VAL:HA	1.71	0.72
1:0V:52:ASP:O	1:0V:58:GLN:NE2	2.21	0.72
1:0V:185:ARG:HD2	1:0V:224:LYS:HG2	1.71	0.72
1:0Z:108:ARG:HD3	1:0Z:147:TRP:HB3	1.70	0.72
1:1B:236:ILE:HG23	1:1B:243:LEU:HD13	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1H:679:GLU:HB3	3:1H:683:ARG:NH1	2.04	0.72
5:1M:564:ARG:NH1	13:1f:434:GLU:HG3	2.03	0.72
12:1g:177:ASP:O	13:1h:352:LYS:HA	1.90	0.72
13:2h:264:ARG:NH2	13:2h:424:ASP:OD1	2.22	0.72
34:3M:244:ARG:NH1	34:3P:117:ARG:HD2	2.05	0.72
34:3Q:305:CYS:HA	34:3Q:308:GLU:OE1	1.90	0.72
12:3c:52:ASN:OD1	12:3c:62:ARG:NH1	2.23	0.72
12:3g:52:ASN:OD1	12:3g:62:ARG:NH1	2.23	0.72
37:4F:510:HIS:CE1	38:4N:70:LYS:HE2	2.24	0.72
37:4G:792:VAL:HG21	37:4G:798:MET:HB3	1.69	0.72
37:4G:1082:LEU:HD23	37:4G:1101:LEU:HD21	1.71	0.72
38:4K:24:THR:HG21	42:5G:97:HIS:CB	2.13	0.72
50:6L:77:ARG:NH2	50:6L:232:THR:HG21	2.04	0.72
51:6M:2248:LYS:HG3	51:6M:2252:TYR:OH	1.88	0.72
12:Ac:20:PHE:HA	12:Ac:230:SER:HB2	1.70	0.72
13:Ah:264:ARG:NH2	13:Ah:424:ASP:OD1	2.22	0.72
13:Bh:264:ARG:NH2	13:Bh:424:ASP:OD1	2.22	0.72
12:Da:99:ASN:HD22	13:Db:258:ASN:HD21	1.37	0.72
1:0K:257:LEU:HD21	1:0K:294:GLY:HA2	1.71	0.72
1:0S:262:PHE:HE2	1:0S:264:ASP:HB3	1.55	0.72
2:1G:82:LEU:CD1	2:1G:118:PRO:HB2	2.19	0.72
12:1a:257:LEU:HD23	12:1a:312:THR:HG22	1.72	0.72
13:1d:264:ARG:NH2	13:1d:424:ASP:OD1	2.22	0.72
12:1e:397:TRP:HZ2	13:1f:260:VAL:HB	1.54	0.72
24:2U:128:VAL:HG22	12:De:336:LYS:HG3	1.70	0.72
24:2V:141:ARG:HH12	13:Cf:124:LYS:HE3	1.55	0.72
30:3G:747:ARG:NH1	12:6a:400:GLY:O	2.23	0.72
34:3O:266:HIS:O	34:3O:270:ILE:HG12	1.90	0.72
34:3O:485:TYR:HA	34:3O:488:ARG:NE	2.04	0.72
34:3W:119:MET:SD	34:3W:372:GLN:NE2	2.60	0.72
37:4E:543:ASN:HA	42:5H:112:THR:OG1	1.89	0.72
37:4G:1333:VAL:HG23	38:4L:25:PRO:CA	2.20	0.72
37:4H:1333:VAL:CG1	38:4M:24:THR:O	2.37	0.72
42:5H:91:TYR:O	43:5L:45:ASN:ND2	2.19	0.72
42:5H:135:ARG:CB	43:5L:52:LEU:C	2.63	0.72
12:5a:208:TYR:HE1	12:5a:225:LEU:HD11	1.51	0.72
12:5g:52:ASN:OD1	12:5g:62:ARG:NH1	2.23	0.72
12:9e:134:GLN:HA	12:9e:165:LEU:O	1.90	0.72
12:Ce:208:TYR:OH	13:Cf:325:PRO:HB2	1.89	0.72
12:Cg:102:ALA:HB2	12:Cg:403:MET:HE2	1.72	0.72
1:0A:72:SER:HB2	1:0A:75:LEU:HG	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0L:218:VAL:HB	1:0L:255:LYS:HD2	1.72	0.72
1:1B:52:ASP:O	1:1B:58:GLN:NE2	2.23	0.72
2:1E:189:LEU:HD22	2:1E:213:LEU:HD13	1.69	0.72
3:1H:991:ILE:HD13	3:1H:1010:LEU:HD11	1.72	0.72
13:1f:264:ARG:NH2	13:1f:424:ASP:OD1	2.22	0.72
34:3N:269:GLY:HA3	34:3N:463:HIS:ND1	2.03	0.72
34:3U:99:ARG:O	34:3U:103:LEU:HG	1.90	0.72
34:3V:266:HIS:NE2	34:3X:506:GLU:OE1	2.23	0.72
35:4C:395:LEU:HD13	35:4C:397:LEU:HB3	1.72	0.72
37:4E:527:VAL:HG11	38:4O:50:ARG:HB2	1.72	0.72
37:4E:577:LEU:HD12	42:5H:134:LEU:HB3	1.72	0.72
37:4F:1077:THR:OG1	37:4F:1081:HIS:HB2	1.88	0.72
37:4F:1314:LEU:CA	38:4N:26:GLU:OE2	2.36	0.72
37:4H:1138:VAL:HB	38:4M:30:ALA:HA	1.70	0.72
38:4M:40:LYS:HZ2	38:4M:44:LEU:HB2	1.54	0.72
40:4T:43:TRP:HA	40:4T:49:ASN:HD21	1.54	0.72
12:4c:52:ASN:OD1	12:4c:62:ARG:NH1	2.23	0.72
41:5A:140:GLU:C	43:5L:168:GLU:O	2.32	0.72
42:5H:94:CYS:N	43:5L:45:ASN:OD1	2.23	0.72
47:6B:781:GLU:HB3	47:6B:787:LEU:HD12	1.71	0.72
48:6F:259:VAL:HG13	48:6F:262:ASN:HD22	1.54	0.72
49:6I:186:ILE:HD13	49:6I:475:ILE:HG21	1.71	0.72
50:6L:159:ARG:HH22	50:6L:178:ASN:ND2	1.87	0.72
12:7e:86:ARG:HD3	12:8e:281:TYR:CD1	2.23	0.72
12:8g:113:ILE:HA	12:8g:116:VAL:HG22	1.70	0.72
12:9c:52:ASN:OD1	12:9c:62:ARG:NH1	2.23	0.72
13:9f:264:ARG:NH2	13:9f:424:ASP:OD1	2.22	0.72
12:Ac:52:ASN:OD1	12:Ac:62:ARG:NH1	2.22	0.72
13:Bd:264:ARG:NH2	13:Bd:424:ASP:OD1	2.22	0.72
13:Dh:264:ARG:NH2	13:Dh:424:ASP:OD1	2.22	0.72
1:0J:52:ASP:O	1:0J:58:GLN:NE2	2.23	0.72
1:0I:109:ALA:O	1:0I:113:HIS:ND1	2.23	0.72
1:1B:253:PHE:CZ	1:1B:278:VAL:HG11	2.25	0.72
3:1H:933:THR:HA	47:6A:371:MET:HE1	1.72	0.72
7:1O:1132:LEU:HD21	7:1O:1823:PHE:HE2	1.55	0.72
7:1O:1337:THR:OG1	7:1O:1360:MET:SD	2.47	0.72
7:1O:2761:THR:HG23	7:1O:2764:ALA:H	1.55	0.72
10:1S:364:PHE:CZ	12:Bg:333:VAL:HG13	2.25	0.72
30:3G:755:ARG:HH22	12:6a:404:ASP:HB2	1.55	0.72
34:3M:266:HIS:HA	34:3M:463:HIS:HE1	1.55	0.72
34:3N:38:HIS:HE1	34:3N:452:HIS:HE1	1.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3O:488:ARG:HA	34:3O:491:GLU:OE1	1.89	0.72
12:3a:87:PRO:HD3	12:4a:281:TYR:CE1	2.24	0.72
37:4E:579:THR:C	43:5L:35:LYS:CD	2.63	0.72
37:4E:581:LEU:C	43:5L:33:LEU:O	2.19	0.72
37:4F:1138:VAL:CG2	38:4N:33:LYS:CB	2.68	0.72
40:4U:43:TRP:HA	40:4U:49:ASN:HD21	1.55	0.72
40:4V:43:TRP:HA	40:4V:49:ASN:HD21	1.54	0.72
43:5J:34:ALA:C	43:5J:35:LYS:HD3	2.15	0.72
3:6D:59:GLN:HE22	3:6D:108:SER:HB2	1.55	0.72
48:6E:259:VAL:HG13	48:6E:262:ASN:HD22	1.54	0.72
51:6N:2248:LYS:HG3	51:6N:2252:TYR:OH	1.88	0.72
13:8h:264:ARG:NH2	13:8h:424:ASP:OD1	2.22	0.72
12:9g:52:ASN:OD1	12:9g:62:ARG:NH1	2.23	0.72
12:Bg:52:ASN:OD1	12:Bg:62:ARG:NH1	2.23	0.72
12:Cc:176:SER:HB2	12:Cc:181:GLU:OE1	1.90	0.72
12:Cg:113:ILE:HA	12:Cg:116:VAL:HG22	1.71	0.72
1:0H:278:VAL:HG13	1:0H:285:LEU:HD23	1.72	0.72
1:0R:319:TYR:OH	47:6B:273:GLY:O	2.07	0.71
1:0R:323:PHE:CE2	47:6B:277:PHE:HE1	2.07	0.71
1:0Z:218:VAL:HB	1:0Z:255:LYS:HD2	1.72	0.71
13:1h:264:ARG:NH2	13:1h:424:ASP:OD1	2.22	0.71
13:2d:264:ARG:NH2	13:2d:424:ASP:OD1	2.22	0.71
30:3F:337:PRO:HB3	13:7f:402:ARG:NH2	2.05	0.71
31:3I:285:ARG:NH1	13:9h:396:ASP:HB2	2.04	0.71
34:4B:492:LEU:HA	34:4B:495:GLN:OE1	1.90	0.71
35:4C:448:VAL:HG22	35:4C:453:LYS:HE2	1.72	0.71
35:4C:538:PHE:HZ	37:4E:1730:LEU:HB2	1.55	0.71
37:4F:1315:VAL:O	37:4F:1323:ILE:N	2.23	0.71
37:4F:1350:ILE:CG2	38:4N:34:ALA:HB1	2.15	0.71
37:4H:1323:ILE:CA	38:4M:25:PRO:CG	2.50	0.71
42:5F:157:LEU:H	43:5J:155:ALA:H	1.35	0.71
42:5H:45:ALA:HB1	42:5H:49:ILE:CD1	2.20	0.71
42:5H:81:VAL:HG12	42:5H:94:CYS:O	1.89	0.71
42:5H:140:TYR:HB2	43:5L:47:LYS:HG3	1.72	0.71
42:5H:141:GLN:CA	43:5L:47:LYS:HD3	2.20	0.71
43:5J:55:TYR:HB3	43:5J:76:PHE:HE2	1.55	0.71
47:6B:205:ARG:HH21	12:Bg:403:MET:HG3	1.55	0.71
47:6B:409:ARG:HD2	3:6D:1006:ASP:H	1.54	0.71
48:6E:957:HIS:HB3	50:6K:412:ALA:HB2	1.70	0.71
12:6g:52:ASN:OD1	12:6g:62:ARG:NH1	2.23	0.71
12:8a:235:GLY:HA3	12:8a:366:THR:HG21	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:9a:60:VAL:HG22	12:Aa:281:TYR:CD1	2.18	0.71
12:9a:101:TRP:CD1	12:9a:145:SER:HG	2.08	0.71
13:9b:264:ARG:NH2	13:9b:424:ASP:OD1	2.22	0.71
12:Ba:60:VAL:HG12	12:Ca:281:TYR:HD1	1.54	0.71
12:Bc:178:THR:OG1	12:Bc:181:GLU:OE1	2.06	0.71
12:De:179:VAL:HG23	13:Df:352:LYS:HB2	1.71	0.71
1:0L:52:ASP:O	1:0L:58:GLN:NE2	2.22	0.71
1:0O:363:ILE:HG22	1:0O:370:HIS:HB3	1.71	0.71
1:0T:322:ALA:HB2	1:0T:362:GLN:HG2	1.72	0.71
2:1G:5:THR:HA	2:1G:8:LEU:HD13	1.70	0.71
3:1H:615:LEU:HD22	3:1H:623:HIS:CD2	2.25	0.71
3:1H:1005:PRO:HG3	47:6A:406:ARG:HB2	1.72	0.71
3:1I:242:GLN:HE21	3:1I:496:VAL:HG22	1.54	0.71
5:1L:537:ASN:O	5:1L:540:THR:N	2.24	0.71
5:1M:420:PRO:HD2	5:1M:433:VAL:HG13	1.70	0.71
5:1M:537:ASN:O	5:1M:540:THR:N	2.24	0.71
10:1S:396:GLU:CD	13:Bf:339:ARG:HE	1.98	0.71
17:2J:16:UNK:O	13:Db:229:ARG:NH2	2.23	0.71
30:3F:374:ARG:NH2	13:8f:432:PHE:HB3	2.04	0.71
32:3J:221:VAL:HG22	32:3J:237:ARG:HD2	1.71	0.71
36:4D:173:LEU:HD21	36:4D:229:VAL:HA	1.72	0.71
37:4E:584:ALA:HB3	37:4E:586:PHE:C	2.14	0.71
37:4G:1333:VAL:C	38:4L:24:THR:O	2.33	0.71
37:4H:974:VAL:CG1	37:4H:975:VAL:H	2.03	0.71
12:4g:113:ILE:HA	12:4g:116:VAL:HG22	1.72	0.71
43:5L:34:ALA:C	43:5L:35:LYS:HD3	2.15	0.71
49:6G:116:ILE:HD11	49:6G:148:LEU:HD21	1.69	0.71
12:6c:177:ASP:N	12:6c:181:GLU:OE2	2.23	0.71
12:7c:73:MET:HA	12:7c:76:VAL:HG22	1.72	0.71
13:Ab:244:PHE:O	13:Ab:356:ASN:ND2	2.23	0.71
13:Ab:264:ARG:NH2	13:Ab:424:ASP:OD1	2.22	0.71
12:Dc:52:ASN:OD1	12:Dc:62:ARG:NH1	2.23	0.71
13:Dd:244:PHE:O	13:Dd:356:ASN:ND2	2.23	0.71
13:Df:244:PHE:O	13:Df:356:ASN:ND2	2.23	0.71
13:Dh:244:PHE:O	13:Dh:356:ASN:ND2	2.23	0.71
1:0D:4:ARG:NH2	13:Dh:196:GLU:OE2	2.23	0.71
1:0F:367:THR:HB	1:0F:370:HIS:ND1	2.05	0.71
1:1B:173:VAL:HG22	1:1B:210:ALA:HB2	1.71	0.71
2:1D:18:LEU:CD2	2:1F:55:ALA:HB2	2.20	0.71
3:1H:987:VAL:O	3:1H:991:ILE:HG13	1.89	0.71
10:1R:291:GLY:HA2	10:1R:294:VAL:HG12	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1S:139:GLU:OE2	10:1S:140:VAL:HG13	1.89	0.71
30:3F:326:LYS:N	13:7f:309:HIS:O	2.23	0.71
37:4E:572:GLY:O	37:4E:575:SER:HB2	1.90	0.71
37:4E:580:GLU:O	43:5L:32:LEU:HD12	1.90	0.71
37:4F:671:LEU:HD13	38:4K:39:HIS:CB	2.20	0.71
37:4F:1075:VAL:N	38:4N:38:VAL:HG13	2.01	0.71
37:4G:1074:GLN:HB3	38:4L:38:VAL:HG11	1.71	0.71
37:4H:1323:ILE:N	38:4M:25:PRO:HG2	2.05	0.71
37:4H:1341:ILE:HG23	37:4H:1350:ILE:HG13	1.70	0.71
37:4H:1368:THR:HG22	37:4H:1378:LEU:HD23	1.72	0.71
42:5E:136:HIS:O	42:5E:139:LEU:HB2	1.90	0.71
42:5H:94:CYS:HA	43:5L:44:THR:O	1.89	0.71
12:5c:52:ASN:OD1	12:5c:62:ARG:NH1	2.23	0.71
47:6B:366:GLU:HB3	3:6D:683:ARG:HD3	1.71	0.71
50:6K:313:MET:HE3	50:6K:317:ARG:HG3	1.72	0.71
13:Ad:264:ARG:NH2	13:Ad:424:ASP:OD1	2.22	0.71
13:Af:244:PHE:O	13:Af:356:ASN:ND2	2.23	0.71
12:Ba:70:PRO:HB2	13:Bb:1:MET:HE2	1.72	0.71
13:Bb:244:PHE:O	13:Bb:356:ASN:ND2	2.23	0.71
13:Bh:244:PHE:O	13:Bh:356:ASN:ND2	2.23	0.71
12:Ca:395:LEU:HD21	12:Ca:405:GLU:HG3	1.71	0.71
1:0H:3:THR:HG22	1:0H:6:VAL:HG23	1.73	0.71
1:0I:342:SER:O	1:0I:346:GLU:HG2	1.90	0.71
1:0A:262:PHE:CE2	1:0A:264:ASP:HB3	2.26	0.71
1:0Q:6:VAL:HG13	1:0Q:10:PHE:HE2	1.54	0.71
1:0T:383:LEU:HB3	1:0T:400:CYS:SG	2.29	0.71
1:0U:392:SER:OG	1:0U:395:ASP:OD1	2.08	0.71
1:0V:97:ARG:HD2	12:2c:406:MET:HE2	1.72	0.71
1:0Z:350:ASP:HA	1:0Z:353:LYS:HG3	1.72	0.71
5:1L:420:PRO:HD2	5:1L:433:VAL:HG13	1.70	0.71
6:1N:2495:VAL:H	6:1N:2725:LEU:HD21	1.55	0.71
12:1c:52:ASN:OD1	12:1c:62:ARG:NH1	2.23	0.71
14:2F:75:ARG:NH2	13:Cb:358:GLN:OE1	2.23	0.71
20:2N:34:UNK:HA	12:6e:219:THR:HG21	1.71	0.71
23:2Q:52:UNK:HA	12:3g:291:GLN:NE2	2.06	0.71
12:2c:52:ASN:OD1	12:2c:62:ARG:NH1	2.23	0.71
12:2g:52:ASN:OD1	12:2g:62:ARG:NH1	2.23	0.71
28:3C:553:ARG:NH2	12:3g:106:TYR:O	2.24	0.71
34:3M:471:ARG:HG2	34:3M:475:MET:HE2	1.72	0.71
34:3R:335:SER:HA	34:3R:338:LEU:HD12	1.73	0.71
34:3T:323:ALA:O	34:3T:326:GLU:HG3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3V:122:GLN:HB3	34:3V:126:PHE:HE1	1.53	0.71
37:4E:583:GLU:CA	43:5L:35:LYS:HA	2.20	0.71
37:4E:740:LEU:HD12	37:4E:741:PRO:HD2	1.71	0.71
37:4F:1333:VAL:C	38:4N:27:ALA:HB1	2.15	0.71
37:4G:935:ARG:HH12	38:4I:72:ARG:HG2	1.55	0.71
37:4H:958:LEU:HG	37:4H:959:LEU:N	2.02	0.71
37:4H:1091:VAL:C	38:4M:34:ALA:CA	2.62	0.71
37:4H:1091:VAL:HA	38:4M:34:ALA:HA	1.70	0.71
37:4H:1135:PHE:HB2	38:4M:36:VAL:HG21	1.72	0.71
13:4b:244:PHE:O	13:4b:356:ASN:ND2	2.23	0.71
42:5E:79:HIS:O	42:5E:83:GLN:HG3	1.91	0.71
42:5G:136:HIS:O	42:5G:139:LEU:HB2	1.90	0.71
43:5I:34:ALA:C	43:5I:35:LYS:HD3	2.15	0.71
43:5K:34:ALA:C	43:5K:35:LYS:HD3	2.15	0.71
3:6D:1006:ASP:OD2	48:6E:324:ASN:ND2	2.24	0.71
49:6H:116:ILE:HD11	49:6H:148:LEU:HD21	1.69	0.71
49:6J:186:ILE:HD13	49:6J:475:ILE:HG21	1.71	0.71
51:6M:1281:THR:HG23	51:6M:1284:GLY:H	1.54	0.71
51:6N:1281:THR:HG23	51:6N:1284:GLY:H	1.54	0.71
12:7g:170:VAL:HG21	12:7g:201:VAL:HG13	1.71	0.71
13:9b:244:PHE:O	13:9b:356:ASN:ND2	2.23	0.71
13:Bf:244:PHE:O	13:Bf:356:ASN:ND2	2.23	0.71
13:Cb:244:PHE:O	13:Cb:356:ASN:ND2	2.24	0.71
13:Cf:244:PHE:O	13:Cf:356:ASN:ND2	2.24	0.71
13:Db:222:PRO:HD2	12:Dc:324:LYS:HG2	1.71	0.71
13:Db:244:PHE:O	13:Db:356:ASN:ND2	2.24	0.71
1:0I:92:LEU:HG	1:0I:132:THR:HG21	1.71	0.71
1:0F:131:VAL:HG13	1:0F:171:LEU:HD11	1.71	0.71
1:0N:89:VAL:HG11	1:0N:125:GLY:HA3	1.72	0.71
1:0S:70:ASN:HA	1:0S:113:HIS:HE2	1.54	0.71
1:0U:367:THR:HB	1:0U:370:HIS:ND1	2.05	0.71
1:0X:262:PHE:CE2	1:0X:264:ASP:HB3	2.26	0.71
13:1d:244:PHE:O	13:1d:356:ASN:ND2	2.24	0.71
13:1f:218:ASP:OD1	16:2I:14:UNK:CB	2.38	0.71
13:1h:244:PHE:O	13:1h:356:ASN:ND2	2.23	0.71
17:2K:9:UNK:HA	13:Df:82:THR:HG21	1.73	0.71
30:3G:533:GLY:HA3	13:7h:113:GLU:OE2	1.90	0.71
31:3I:467:ARG:HG3	13:8f:429:GLU:HB3	1.72	0.71
34:3V:213:PRO:HA	34:3Z:63:SER:OG	1.90	0.71
34:3W:92:THR:HG21	34:3W:328:MET:HE1	1.72	0.71
34:4A:93:VAL:HG13	34:4A:397:LEU:HB3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1084:ARG:HD3	38:4N:40:LYS:HG2	1.71	0.71
37:4F:1084:ARG:CB	38:4N:37:GLY:HA2	2.20	0.71
37:4F:1755:LEU:HD13	37:4F:1759:MET:HE1	1.72	0.71
37:4H:1136:ARG:CB	38:4M:33:LYS:HZ3	2.04	0.71
37:4H:1324:THR:CB	38:4M:24:THR:N	2.41	0.71
37:4H:1332:SER:O	38:4M:24:THR:O	2.07	0.71
39:4S:67:TRP:HA	44:5R:149:MET:HE1	1.73	0.71
42:5F:136:HIS:O	42:5F:139:LEU:HB2	1.90	0.71
43:5L:55:TYR:HB3	43:5L:76:PHE:HE2	1.55	0.71
47:6B:406:ARG:HE	3:6D:1002:PRO:CB	1.98	0.71
50:6L:27:VAL:HG11	50:6L:377:TYR:HA	1.73	0.71
50:6L:202:LEU:HD13	50:6L:360:PHE:HZ	1.55	0.71
50:6L:313:MET:HE3	50:6L:317:ARG:HG3	1.72	0.71
12:7a:174:LYS:NZ	13:7b:333:ALA:HB2	2.05	0.71
13:7d:244:PHE:O	13:7d:356:ASN:ND2	2.24	0.71
13:7f:244:PHE:O	13:7f:356:ASN:ND2	2.23	0.71
12:8a:131:GLN:NE2	12:8a:163:MET:HG2	2.04	0.71
12:9e:235:GLY:HA3	12:9e:366:THR:HG21	1.71	0.71
13:9f:244:PHE:O	13:9f:356:ASN:ND2	2.23	0.71
13:Ad:244:PHE:O	13:Ad:356:ASN:ND2	2.23	0.71
13:Af:264:ARG:NH2	13:Af:424:ASP:OD1	2.22	0.71
13:Bd:222:PRO:HD2	12:Be:324:LYS:HG2	1.72	0.71
13:Cb:177:VAL:HB	12:Cc:331:LEU:HD22	1.72	0.71
13:Cd:244:PHE:O	13:Cd:356:ASN:ND2	2.23	0.71
13:Ch:244:PHE:O	13:Ch:356:ASN:ND2	2.23	0.71
12:Dg:52:ASN:OD1	12:Dg:62:ARG:NH1	2.23	0.71
1:0G:70:ASN:HA	1:0G:113:HIS:HE2	1.55	0.71
3:1H:209:GLU:OE2	47:6A:291:GLN:HB2	1.90	0.71
6:1N:610:THR:HG21	6:1N:641:TRP:NE1	2.05	0.71
13:1b:244:PHE:O	13:1b:356:ASN:ND2	2.24	0.71
13:2b:244:PHE:O	13:2b:356:ASN:ND2	2.23	0.71
13:2d:244:PHE:O	13:2d:356:ASN:ND2	2.24	0.71
54:2d:501:GTP:O1B	12:2e:252:LYS:NZ	2.20	0.71
12:2e:86:ARG:CD	12:3e:281:TYR:HD1	2.03	0.71
12:2e:134:GLN:HA	12:2e:165:LEU:O	1.89	0.71
13:2h:244:PHE:O	13:2h:356:ASN:ND2	2.23	0.71
34:3O:352:LEU:HD13	34:3O:382:LEU:HD11	1.73	0.71
34:3T:38:HIS:HE1	34:3T:452:HIS:HE1	1.39	0.71
34:3X:63:SER:OG	34:4A:213:PRO:HA	1.90	0.71
34:4B:92:THR:HG21	34:4B:328:MET:HE1	1.72	0.71
35:4C:804:MET:HB3	35:4C:924:CYS:SG	2.31	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:958:LEU:CD2	38:4N:45:ALA:HB1	2.19	0.71
37:4F:1322:ARG:HB3	38:4N:25:PRO:HB3	1.68	0.71
37:4F:1333:VAL:C	38:4N:31:ALA:H	1.99	0.71
13:5b:177:VAL:HB	12:5c:331:LEU:HD22	1.73	0.71
49:6I:133:ASP:OD2	49:6I:395:THR:OG1	2.07	0.71
49:6J:133:ASP:OD2	49:6J:395:THR:OG1	2.07	0.71
50:6K:27:VAL:HG11	50:6K:377:TYR:HA	1.73	0.71
12:7c:52:ASN:OD1	12:7c:62:ARG:NH1	2.23	0.71
13:7h:244:PHE:O	13:7h:356:ASN:ND2	2.24	0.71
13:Bd:244:PHE:O	13:Bd:356:ASN:ND2	2.23	0.71
12:De:178:THR:OG1	12:De:181:GLU:HG3	1.90	0.71
1:0I:358:TRP:HB2	1:0I:399:LYS:HD2	1.73	0.71
1:0D:46:LEU:HB3	1:0D:65:LEU:HD21	1.71	0.71
1:0N:343:ALA:O	1:0N:347:GLU:HG3	1.90	0.71
1:0Q:358:TRP:HB2	1:0Q:399:LYS:HD2	1.73	0.71
1:0R:34:ILE:HG23	1:0R:68:LEU:HD23	1.73	0.71
1:0Y:169:VAL:O	1:0Y:173:VAL:HG23	1.89	0.71
1:1C:131:VAL:HG13	1:1C:171:LEU:HD11	1.72	0.71
3:1H:1010:LEU:CD2	47:6A:402:MET:HE3	2.18	0.71
4:1J:69:ILE:HG13	47:6B:95:TYR:CE2	2.26	0.71
5:1L:556:TYR:HE2	12:1a:395:LEU:HB3	1.56	0.71
6:1N:1231:VAL:HG12	6:1N:1232:GLU:HG2	1.73	0.71
10:1R:345:SER:HB2	12:Ac:407:GLU:CG	2.20	0.71
13:1f:244:PHE:O	13:1f:356:ASN:ND2	2.24	0.71
13:2f:244:PHE:O	13:2f:356:ASN:ND2	2.23	0.71
34:3T:353:LEU:O	34:3T:357:LEU:HG	1.91	0.71
37:4E:541:ALA:HA	38:4P:49:ILE:CD1	2.19	0.71
37:4E:580:GLU:HB2	43:5L:27:LEU:CD1	2.20	0.71
37:4E:589:PRO:HD2	43:5L:20:HIS:C	2.15	0.71
37:4F:972:PHE:CE1	37:4F:1074:GLN:CD	2.68	0.71
37:4F:1093:VAL:C	37:4F:1136:ARG:H	1.98	0.71
37:4H:544:MET:HA	37:4H:544:MET:HE2	1.71	0.71
38:4I:57:VAL:O	38:4I:60:VAL:N	2.23	0.71
13:4f:244:PHE:O	13:4f:356:ASN:ND2	2.23	0.71
41:5A:117:ALA:HB3	43:5L:169:LEU:HD22	1.73	0.71
12:5e:390:ARG:HG3	12:5e:391:ARG:HG2	1.72	0.71
50:6K:202:LEU:HD13	50:6K:360:PHE:HZ	1.55	0.71
13:6f:244:PHE:O	13:6f:356:ASN:ND2	2.24	0.71
13:6h:244:PHE:O	13:6h:356:ASN:ND2	2.23	0.71
13:7b:96:LYS:HE3	12:7c:1:MET:HE1	1.73	0.71
12:7g:52:ASN:OD1	12:7g:62:ARG:NH1	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8g:52:ASN:OD1	12:8g:62:ARG:NH1	2.23	0.71
12:Ba:86:ARG:HH11	12:Ca:281:TYR:HB2	1.55	0.71
1:0W:80:VAL:HG22	1:0W:85:LEU:HD11	1.72	0.71
1:0B:353:LYS:HB2	1:0B:396:LEU:HD21	1.73	0.71
1:0F:69:ALA:O	1:0F:113:HIS:HE1	1.73	0.71
1:0T:344:LEU:HB3	1:0T:382:THR:HG21	1.73	0.71
1:0U:286:ALA:HB1	1:0U:320:ILE:HG22	1.73	0.71
2:1E:64:THR:HA	2:1E:88:LEU:HD13	1.72	0.71
3:1H:995:PHE:CE2	47:6A:402:MET:SD	2.84	0.71
4:1J:167:ASP:OD1	4:1J:189:GLY:N	2.17	0.71
4:1K:167:ASP:OD1	4:1K:189:GLY:N	2.17	0.71
14:2F:135:ARG:HH22	13:Ab:36:MET:HE2	1.56	0.71
12:2e:52:ASN:HB3	12:2e:60:VAL:CG2	2.21	0.71
33:3L:38:LEU:HD13	33:3L:63:LEU:HG	1.72	0.71
34:3U:366:VAL:HG23	34:3Z:356:PHE:CD1	2.26	0.71
34:3W:250:ARG:HH22	37:4H:1608:GLU:HB2	1.55	0.71
13:3h:264:ARG:HG3	39:4Q:170:VAL:HG23	1.73	0.71
34:4B:501:ASP:HA	34:4B:504:LEU:HD12	1.73	0.71
37:4E:573:ALA:C	43:5L:30:ARG:HE	1.97	0.71
37:4E:586:PHE:CG	43:5L:10:LEU:HD13	2.25	0.71
37:4F:935:ARG:NH1	38:4N:49:ILE:CG1	2.54	0.71
37:4F:958:LEU:CG	37:4F:959:LEU:N	2.52	0.71
37:4F:969:LEU:HD12	37:4F:1074:GLN:C	2.15	0.71
37:4F:1082:LEU:CG	38:4N:39:HIS:HD2	1.98	0.71
37:4G:1334:GLU:H	38:4L:28:VAL:H	1.39	0.71
37:4H:1092:LEU:C	38:4M:36:VAL:H	1.99	0.71
38:4I:72:ARG:CB	38:4L:49:ILE:HG23	2.21	0.71
40:4U:45:HIS:HB2	40:4U:46:PRO:HD3	1.73	0.71
12:4a:109:GLY:HA2	12:4a:147:MET:SD	2.31	0.71
13:4d:244:PHE:O	13:4d:356:ASN:ND2	2.23	0.71
13:4h:244:PHE:O	13:4h:356:ASN:ND2	2.24	0.71
42:5H:133:LEU:O	43:5L:46:PRO:CA	2.38	0.71
42:5H:135:ARG:CG	43:5L:51:HIS:O	2.39	0.71
49:6G:209:GLU:HB2	49:6G:287:ASP:HB3	1.72	0.71
12:Ae:70:PRO:HB2	13:Af:1:MET:HE2	1.73	0.71
12:Cc:52:ASN:OD1	12:Cc:62:ARG:NH1	2.23	0.71
12:Cg:52:ASN:OD1	12:Cg:62:ARG:NH1	2.23	0.71
1:0A:206:VAL:HG21	1:0A:243:LEU:HD22	1.73	0.71
1:0C:91:SER:HA	1:0C:99:TYR:CE2	2.26	0.71
1:0G:257:LEU:HD21	1:0G:294:GLY:HA2	1.71	0.71
1:0M:257:LEU:HD21	1:0M:294:GLY:HA2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1R:57:LYS:HD2	13:Ad:339:ARG:HA	1.72	0.71
10:1R:175:ARG:NH2	13:Ab:423:GLU:HG2	2.06	0.71
12:1a:175:VAL:HG21	13:1b:332:VAL:HG13	1.70	0.71
12:1g:52:ASN:OD1	12:1g:62:ARG:NH1	2.23	0.71
34:3N:291:LEU:HD12	34:3N:441:LEU:HD13	1.73	0.71
35:4C:811:ARG:HH12	37:4E:1681:ARG:HD3	1.56	0.71
36:4D:87:LEU:HD23	36:4D:118:LEU:HD12	1.72	0.71
37:4E:590:LYS:N	37:4E:590:LYS:HA	2.00	0.71
37:4E:784:LEU:HD21	37:4E:1627:ILE:HG22	1.72	0.71
37:4F:1074:GLN:CD	38:4N:41:LYS:O	2.33	0.71
37:4F:1083:ILE:CD1	38:4N:34:ALA:HB1	2.20	0.71
37:4G:1093:VAL:HB	38:4L:32:GLU:O	1.91	0.71
37:4G:1304:MET:O	37:4G:1315:VAL:HA	1.91	0.71
37:4H:953:PRO:C	38:4M:47:ALA:HB3	2.16	0.71
38:4K:25:PRO:HB3	42:5G:96:ALA:CB	2.21	0.71
40:4T:45:HIS:HB2	40:4T:46:PRO:HD3	1.73	0.71
12:4e:109:GLY:HA2	12:4e:147:MET:SD	2.31	0.71
41:5A:96:ALA:HB1	41:5A:117:ALA:C	2.16	0.71
42:5H:92:THR:HA	43:5L:41:ASP:O	1.91	0.71
13:5b:403:ALA:HB2	12:5c:344:TRP:HZ3	1.55	0.71
12:5e:109:GLY:HA2	12:5e:147:MET:SD	2.31	0.71
47:6A:952:ARG:HE	47:6A:1077:GLY:C	1.99	0.71
47:6B:172:LEU:HD21	13:Ch:390:ARG:CG	2.20	0.71
47:6B:347:ARG:HA	47:6B:350:ARG:NE	2.06	0.71
47:6B:952:ARG:HE	47:6B:1077:GLY:C	1.99	0.71
13:6b:244:PHE:O	13:6b:356:ASN:ND2	2.23	0.71
13:6d:244:PHE:O	13:6d:356:ASN:ND2	2.24	0.71
12:8c:52:ASN:OD1	12:8c:62:ARG:NH1	2.23	0.71
13:9h:244:PHE:O	13:9h:356:ASN:ND2	2.24	0.71
13:Ah:244:PHE:O	13:Ah:356:ASN:ND2	2.24	0.71
12:Bc:329:GLN:O	12:Bc:333:VAL:HG23	1.90	0.71
1:0I:127:LEU:HD11	1:0I:149:LEU:HD21	1.73	0.71
1:0O:342:SER:O	1:0O:346:GLU:HG2	1.90	0.71
1:0P:278:VAL:HG13	1:0P:285:LEU:HD23	1.72	0.71
1:0Y:353:LYS:HB2	1:0Y:396:LEU:HD21	1.73	0.71
10:1S:445:TRP:CZ3	12:Be:231:ALA:HB2	2.25	0.71
34:3Q:304:SER:O	34:3Q:307:GLU:HG3	1.90	0.71
34:3S:381:ASN:HA	34:3S:384:ASN:HD21	1.54	0.71
13:3h:244:PHE:O	13:3h:356:ASN:ND2	2.23	0.71
37:4F:672:PHE:HB3	38:4K:39:HIS:HE1	1.55	0.71
38:4K:57:VAL:O	38:4K:60:VAL:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:4R:64:GLN:HA	44:5Q:113:MET:HE1	1.72	0.71
40:4V:45:HIS:HB2	40:4V:46:PRO:HD3	1.73	0.71
42:5H:135:ARG:C	43:5L:48:THR:O	2.33	0.71
44:5T:36:LEU:HD22	44:5T:67:ILE:HD13	1.72	0.71
49:6I:317:LYS:HD3	49:6I:347:PRO:HG3	1.72	0.71
12:6c:52:ASN:OD1	12:6c:62:ARG:NH1	2.23	0.71
12:Ag:178:THR:OG1	12:Ag:181:GLU:OE2	2.07	0.71
1:0G:105:PHE:HA	1:0G:108:ARG:HE	1.56	0.70
1:0R:219:ILE:HG12	1:0R:255:LYS:CD	2.16	0.70
1:0V:337:LEU:O	1:0V:341:VAL:HG23	1.91	0.70
1:1A:46:LEU:HB3	1:1A:65:LEU:HD21	1.72	0.70
5:1M:556:TYR:CE2	12:1e:395:LEU:HB3	2.25	0.70
7:1O:2065:THR:HB	7:1O:2109:CYS:SG	2.30	0.70
7:1O:2147:TYR:CE1	8:1P:809:TYR:HB3	2.25	0.70
12:2a:101:TRP:HD1	12:2a:145:SER:HG	1.35	0.70
30:3F:304:ARG:HB2	13:6f:264:ARG:HH22	1.56	0.70
32:3K:43:ILE:HD13	32:3K:128:GLU:HB3	1.72	0.70
33:3L:41:PHE:HB3	33:3L:66:GLN:HE22	1.56	0.70
34:3O:460:ARG:O	34:3O:464:LEU:HG	1.91	0.70
34:3S:273:ARG:O	34:3S:277:VAL:HG23	1.91	0.70
34:3U:370:GLU:OE1	34:3Z:359:ARG:HB3	1.91	0.70
13:3f:244:PHE:O	13:3f:356:ASN:ND2	2.24	0.70
37:4E:583:GLU:N	43:5L:35:LYS:HA	2.06	0.70
37:4E:588:PRO:HB3	43:5L:32:LEU:CD2	2.20	0.70
37:4E:1162:VAL:HB	37:4E:1299:ARG:HH12	1.56	0.70
37:4F:563:GLU:HB3	42:5G:103:LEU:HD11	1.71	0.70
37:4F:1074:GLN:CD	38:4N:41:LYS:HA	2.15	0.70
37:4F:1333:VAL:CB	38:4N:30:ALA:CB	2.62	0.70
37:4G:664:TYR:CD1	38:4I:43:ASN:HB3	2.26	0.70
37:4G:671:LEU:HD13	38:4I:40:LYS:CB	2.21	0.70
37:4G:1074:GLN:OE1	38:4L:38:VAL:HG12	1.90	0.70
37:4G:1081:HIS:C	37:4G:1082:LEU:O	2.33	0.70
37:4G:1334:GLU:HG2	37:4G:1334:GLU:O	1.88	0.70
37:4G:1335:MET:HA	38:4L:28:VAL:C	2.15	0.70
37:4H:1136:ARG:HD3	38:4M:29:LYS:HD2	1.73	0.70
38:4I:32:GLU:HG3	38:4I:33:LYS:HZ1	1.56	0.70
39:4Q:56:PHE:O	39:4Q:60:THR:HG23	1.91	0.70
12:5a:109:GLY:HA2	12:5a:147:MET:SD	2.31	0.70
13:5b:244:PHE:O	13:5b:356:ASN:ND2	2.23	0.70
47:6A:347:ARG:HA	47:6A:350:ARG:NE	2.06	0.70
49:6I:46:GLU:OE1	49:6I:46:GLU:N	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6J:46:GLU:OE1	49:6J:46:GLU:N	2.22	0.70
12:6a:33:THR:O	12:6a:58:ARG:NH1	2.23	0.70
13:6d:100:ALA:O	12:6e:255:VAL:HG11	1.91	0.70
13:7b:244:PHE:O	13:7b:356:ASN:ND2	2.23	0.70
12:8g:253:LEU:HD11	12:8g:316:LEU:HD21	1.73	0.70
13:9d:244:PHE:O	13:9d:356:ASN:ND2	2.24	0.70
1:0H:104:ALA:O	1:0H:108:ARG:HG3	1.91	0.70
1:0W:332:ILE:HG13	1:0W:370:HIS:CE1	2.26	0.70
1:0G:332:ILE:HG13	1:0G:370:HIS:CE1	2.27	0.70
1:0S:367:THR:HB	1:0S:370:HIS:ND1	2.06	0.70
1:1C:382:THR:O	1:1C:386:LEU:HG	1.91	0.70
2:1F:207:LYS:O	2:1F:211:HIS:ND1	2.23	0.70
2:1G:207:LYS:O	2:1G:211:HIS:ND1	2.24	0.70
3:1H:995:PHE:HE2	47:6A:402:MET:SD	2.15	0.70
10:1R:279:PHE:O	10:1R:282:GLN:HG2	1.91	0.70
10:1R:441:HIS:HD2	10:1R:443:TYR:O	1.73	0.70
24:2U:121:VAL:HA	24:2U:158:VAL:HG21	1.73	0.70
30:3G:544:LEU:HG	13:7h:112:LYS:HE3	1.73	0.70
13:3b:222:PRO:O	12:3c:322:SER:OG	2.08	0.70
13:3b:244:PHE:O	13:3b:356:ASN:ND2	2.24	0.70
13:3d:244:PHE:O	13:3d:356:ASN:ND2	2.24	0.70
37:4E:576:ALA:N	43:5L:30:ARG:C	2.49	0.70
37:4E:589:PRO:HB3	43:5L:18:ILE:H	1.56	0.70
37:4E:589:PRO:HG2	43:5L:20:HIS:HB2	1.72	0.70
37:4F:1333:VAL:C	38:4N:27:ALA:CB	2.63	0.70
37:4F:1333:VAL:HG12	38:4N:33:LYS:HG2	1.74	0.70
37:4F:1734:PHE:HD2	37:4F:1736:ARG:NH1	1.88	0.70
37:4H:1323:ILE:CG1	38:4M:26:GLU:N	2.54	0.70
37:4H:1324:THR:N	38:4M:25:PRO:CD	2.51	0.70
37:4H:1755:LEU:HD13	37:4H:1759:MET:HE1	1.73	0.70
39:4R:56:PHE:O	39:4R:60:THR:HG23	1.91	0.70
42:5E:139:LEU:O	42:5E:143:VAL:HG23	1.91	0.70
43:5I:55:TYR:HB3	43:5I:76:PHE:HE2	1.55	0.70
43:5I:133:ASP:HB2	43:5I:137:ARG:NH1	2.06	0.70
43:5K:133:ASP:HB2	43:5K:137:ARG:NH1	2.06	0.70
44:5S:36:LEU:HD22	44:5S:67:ILE:HD13	1.72	0.70
47:6A:877:SER:HB2	48:6F:60:GLY:HA3	1.73	0.70
3:6D:508:LEU:HD11	3:6D:531:MET:HG3	1.73	0.70
48:6E:62:THR:OG1	48:6E:64:ASP:O	2.08	0.70
49:6G:317:LYS:HD3	49:6G:347:PRO:HG3	1.72	0.70
49:6J:317:LYS:HD3	49:6J:347:PRO:HG3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6g:274:THR:HG22	12:6g:282:ARG:HD3	1.73	0.70
54:7b:501:GTP:O1B	12:7c:252:LYS:NZ	2.23	0.70
12:7e:33:THR:O	12:7e:58:ARG:NH1	2.24	0.70
13:8h:244:PHE:O	13:8h:356:ASN:ND2	2.23	0.70
12:9a:109:GLY:HA2	12:9a:147:MET:SD	2.31	0.70
1:0W:252:ILE:HD12	1:0W:255:LYS:HD3	1.73	0.70
1:0G:252:ILE:HD12	1:0G:255:LYS:HD3	1.73	0.70
1:0Q:109:ALA:O	1:0Q:113:HIS:ND1	2.24	0.70
1:1C:48:PRO:HA	1:1C:51:LEU:HD12	1.73	0.70
4:1J:58:ARG:HH11	4:1J:88:GLN:HE22	1.37	0.70
4:1K:58:ARG:HH11	4:1K:88:GLN:HE22	1.37	0.70
7:1O:2090:HIS:NE2	8:1P:796:LYS:O	2.24	0.70
10:1R:263:ASP:OD1	10:1R:266:ARG:NH1	2.24	0.70
12:1e:175:VAL:HG21	13:1f:332:VAL:HG13	1.72	0.70
34:3O:488:ARG:O	34:3O:492:LEU:HG	1.90	0.70
34:3Y:258:TYR:OH	34:3Y:477:GLU:HG3	1.91	0.70
37:4E:589:PRO:HA	43:5L:19:ARG:N	2.07	0.70
37:4F:972:PHE:HE1	37:4F:1074:GLN:OE1	1.72	0.70
37:4G:690:CYS:SG	38:4I:55:ALA:C	2.75	0.70
37:4G:933:ARG:HE	38:4I:71:GLU:CG	2.01	0.70
39:4S:56:PHE:O	39:4S:60:THR:HG23	1.91	0.70
41:5A:162:PHE:C	41:5A:164:GLY:N	2.46	0.70
42:5H:137:TYR:CB	42:5H:137:TYR:N	2.53	0.70
43:5I:147:THR:OG1	43:5I:148:ASN:N	2.22	0.70
43:5J:35:LYS:HD3	43:5J:35:LYS:N	2.06	0.70
43:5K:35:LYS:HD3	43:5K:35:LYS:N	2.06	0.70
43:5L:51:HIS:CD2	43:5L:146:TYR:HH	2.09	0.70
47:6B:290:GLY:N	3:6D:197:SER:CA	2.54	0.70
12:7e:113:ILE:HA	12:7e:116:VAL:HG22	1.73	0.70
12:9e:60:VAL:HG22	12:Ae:281:TYR:CD1	2.20	0.70
1:0J:80:VAL:HG11	1:0J:120:SER:HB2	1.73	0.70
1:0C:350:ASP:HA	1:0C:353:LYS:HG3	1.74	0.70
1:0E:368:PRO:HA	1:0E:410:LYS:HB3	1.72	0.70
12:2c:253:LEU:HD11	12:2c:316:LEU:HD21	1.72	0.70
34:3S:502:VAL:O	34:3S:506:GLU:HG3	1.91	0.70
12:3a:58:ARG:NE	12:3a:86:ARG:NH2	2.39	0.70
12:3g:177:ASP:N	12:3g:181:GLU:OE2	2.24	0.70
37:4F:1138:VAL:O	37:4F:1139:THR:OG1	2.07	0.70
37:4G:1755:LEU:HD13	37:4G:1759:MET:HE1	1.73	0.70
37:4H:1137:ALA:HA	38:4M:33:LYS:CE	2.20	0.70
12:4a:278:SER:HA	12:4a:281:TYR:CD2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:5U:36:LEU:HD22	44:5U:67:ILE:HD13	1.72	0.70
13:5h:244:PHE:O	13:5h:356:ASN:ND2	2.24	0.70
49:6H:209:GLU:HB2	49:6H:287:ASP:HB3	1.72	0.70
51:6M:1940:TRP:HH2	51:6M:2115:THR:HG22	1.57	0.70
12:6a:107:THR:O	12:6a:111:GLU:HG2	1.91	0.70
12:6g:397:TRP:CG	13:6h:257:THR:HG22	2.27	0.70
13:8f:244:PHE:O	13:8f:356:ASN:ND2	2.24	0.70
13:Cb:222:PRO:O	12:Cc:322:SER:OG	2.08	0.70
1:0V:248:VAL:HG21	1:0V:285:LEU:HG	1.73	0.70
1:1C:198:THR:HB	1:1C:201:LEU:HG	1.74	0.70
3:1H:1009:ARG:CB	48:6F:353:ILE:HD13	2.18	0.70
10:1R:57:LYS:N	13:Ad:339:ARG:HH22	1.89	0.70
12:1a:109:GLY:HA2	12:1a:147:MET:SD	2.32	0.70
32:3J:366:LYS:H	12:9a:423:GLN:NE2	1.88	0.70
34:3Q:90:GLU:O	34:3Q:94:THR:HG23	1.91	0.70
37:4E:1380:ALA:HB3	37:4E:1383:ALA:O	1.91	0.70
37:4E:1756:PRO:HG2	37:4E:1759:MET:HB2	1.73	0.70
37:4F:1073:LEU:HG	37:4F:1379:ALA:CB	2.21	0.70
37:4F:1297:THR:O	37:4F:1304:MET:HA	1.90	0.70
37:4G:664:TYR:CE1	38:4I:43:ASN:HA	2.26	0.70
37:4H:1072:ALA:HB3	38:4M:41:LYS:CE	2.22	0.70
37:4H:1156:LEU:HD11	37:4H:1317:ASP:HB3	1.73	0.70
37:4H:1332:SER:H	38:4M:24:THR:CA	2.03	0.70
37:4H:1333:VAL:CG2	37:4H:1333:VAL:CG1	2.59	0.70
38:4M:60:VAL:HG12	38:4M:84:LEU:HA	1.74	0.70
12:4g:91:VAL:HG21	12:4g:116:VAL:HG12	1.74	0.70
49:6H:317:LYS:HD3	49:6H:347:PRO:HG3	1.72	0.70
51:6N:1940:TRP:HH2	51:6N:2115:THR:HG22	1.57	0.70
12:6c:113:ILE:HA	12:6c:116:VAL:HG12	1.73	0.70
13:8d:244:PHE:O	13:8d:356:ASN:ND2	2.24	0.70
12:Ae:86:ARG:CD	12:Be:281:TYR:HD1	2.03	0.70
12:Da:109:GLY:HA2	12:Da:147:MET:SD	2.32	0.70
1:0K:198:THR:HB	1:0K:201:LEU:HG	1.74	0.70
1:0E:337:LEU:O	1:0E:341:VAL:HG23	1.92	0.70
1:0O:311:LEU:HD21	1:0O:352:LEU:HA	1.74	0.70
2:1D:127:LEU:HD13	2:1D:146:ALA:HB1	1.72	0.70
2:1E:127:LEU:HD13	2:1E:146:ALA:HB1	1.72	0.70
10:1S:172:VAL:HG21	13:Af:396:ASP:OD1	1.92	0.70
10:1S:443:TYR:HD1	12:Be:227:HIS:NE2	1.89	0.70
24:2T:217:ARG:HH22	12:Cg:260:PHE:HB3	1.54	0.70
24:2U:189:ILE:HG22	24:2U:193:GLN:HE22	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:3I:289:ASN:ND2	13:9h:393:HIS:CE1	2.60	0.70
34:3O:294:HIS:CE1	34:3O:437:GLY:HA3	2.26	0.70
34:3Q:60:TYR:OH	34:3Q:430:GLY:HA2	1.91	0.70
34:3V:121:LEU:HD11	34:3V:357:LEU:HD22	1.71	0.70
12:3e:109:GLY:HA2	12:3e:147:MET:SD	2.31	0.70
35:4C:891:SER:HB2	35:4C:926:THR:HG22	1.73	0.70
12:4a:189:VAL:O	12:4a:193:VAL:HG23	1.91	0.70
42:5G:139:LEU:O	42:5G:143:VAL:HG23	1.91	0.70
42:5H:93:GLU:C	43:5L:44:THR:HG1	1.99	0.70
43:5I:15:LEU:HD13	43:5I:69:ASP:OD2	1.91	0.70
47:6A:212:LEU:O	47:6A:216:ARG:HG3	1.92	0.70
47:6B:212:LEU:O	47:6B:216:ARG:HG3	1.92	0.70
12:7e:109:GLY:HA2	12:7e:147:MET:SD	2.32	0.70
13:8b:244:PHE:O	13:8b:356:ASN:ND2	2.24	0.70
12:9a:101:TRP:HD1	12:9a:145:SER:HG	1.37	0.70
12:De:109:GLY:HA2	12:De:147:MET:SD	2.31	0.70
1:0W:105:PHE:HA	1:0W:108:ARG:HE	1.55	0.70
1:0W:353:LYS:HB2	1:0W:396:LEU:HD21	1.72	0.70
1:0I:367:THR:HB	1:0I:370:HIS:ND1	2.05	0.70
1:0K:342:SER:O	1:0K:346:GLU:HG2	1.91	0.70
1:0Q:367:THR:HB	1:0Q:370:HIS:ND1	2.07	0.70
1:0S:257:LEU:HD21	1:0S:294:GLY:HA2	1.74	0.70
1:1A:218:VAL:HG12	1:1A:255:LYS:HB3	1.73	0.70
1:1B:286:ALA:HB1	1:1B:320:ILE:HG12	1.72	0.70
2:1F:139:ARG:NH2	2:1F:176:HIS:ND1	2.37	0.70
12:1e:109:GLY:HA2	12:1e:147:MET:SD	2.32	0.70
12:2a:163:MET:HE2	12:2a:198:GLU:OE1	1.92	0.70
32:3J:342:VAL:HA	32:3J:345:MET:HE2	1.72	0.70
34:3N:338:LEU:HD21	34:3N:393:ALA:HB1	1.74	0.70
34:3O:60:TYR:OH	34:3O:430:GLY:HA2	1.92	0.70
12:3a:86:ARG:HH11	12:4a:281:TYR:N	1.89	0.70
12:3c:178:THR:OG1	12:3c:181:GLU:OE1	2.07	0.70
13:3d:423:GLU:OE2	39:4S:210:LEU:CB	2.27	0.70
37:4E:1073:LEU:HD23	37:4E:1358:LEU:HG	1.73	0.70
37:4G:541:ALA:O	37:4G:544:MET:HB2	1.90	0.70
37:4G:692:MET:CB	38:4I:60:VAL:HG22	2.21	0.70
37:4G:1073:LEU:HD11	37:4G:1367:VAL:O	1.92	0.70
37:4H:1319:ASP:H	37:4H:1321:THR:HG22	1.57	0.70
38:4K:77:VAL:CG2	38:4N:57:VAL:HG21	2.22	0.70
41:5A:169:LEU:CB	43:5L:164:GLU:CG	2.70	0.70
42:5F:79:HIS:O	42:5F:83:GLN:HG3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5F:139:LEU:O	42:5F:143:VAL:HG23	1.91	0.70
42:5H:139:LEU:O	42:5H:143:VAL:N	2.24	0.70
43:5J:133:ASP:HB2	43:5J:137:ARG:NH1	2.06	0.70
43:5K:15:LEU:HD13	43:5K:69:ASP:OD2	1.91	0.70
13:5d:244:PHE:O	13:5d:356:ASN:ND2	2.23	0.70
13:5f:244:PHE:O	13:5f:356:ASN:ND2	2.24	0.70
47:6A:829:LEU:HD11	47:6A:834:LEU:HD23	1.74	0.70
12:6g:174:LYS:HE3	13:6h:333:ALA:HB1	1.73	0.70
12:8a:109:GLY:HA2	12:8a:147:MET:SD	2.31	0.70
12:8a:207:LEU:HD11	12:8a:229:ILE:HD11	1.73	0.70
12:Aa:68:LEU:HD23	12:Aa:143:THR:HG23	1.73	0.70
12:Aa:86:ARG:CD	12:Ba:281:TYR:HD1	2.03	0.70
12:Ae:109:GLY:HA2	12:Ae:147:MET:SD	2.31	0.70
12:Dg:317:PHE:HB3	12:Dg:321:MET:HE1	1.73	0.70
1:0W:70:ASN:HA	1:0W:113:HIS:HE2	1.55	0.70
1:0I:128:ASP:O	1:0I:132:THR:HG23	1.91	0.70
1:0N:133:CYS:SG	1:0N:145:SER:HB3	2.32	0.70
2:1F:43:LEU:HD21	2:1F:91:CYS:HB3	1.73	0.70
6:1N:417:LEU:HA	6:1N:420:VAL:HG12	1.73	0.70
6:1N:1454:GLU:O	6:1N:1457:GLU:HG3	1.92	0.70
24:2T:145:TRP:HH2	24:2T:158:VAL:HA	1.56	0.70
34:3N:91:GLU:HA	34:3Q:33:GLN:HE22	1.57	0.70
34:3N:266:HIS:HA	34:3N:463:HIS:HE1	1.56	0.70
35:4C:455:TRP:HB2	35:4C:470:ASN:HB2	1.74	0.70
37:4E:582:GLN:CG	43:5L:34:ALA:HA	2.21	0.70
37:4E:582:GLN:CD	43:5L:52:LEU:HD13	2.17	0.70
37:4G:824:ALA:HB3	37:4G:864:VAL:HG13	1.74	0.70
37:4G:970:SER:N	37:4G:1074:GLN:CG	2.55	0.70
37:4G:1335:MET:O	37:4G:1336:ASP:O	2.10	0.70
37:4H:930:VAL:HG22	37:4H:964:PRO:HD3	1.74	0.70
37:4H:940:ALA:CB	37:4H:955:GLY:HA3	2.20	0.70
37:4H:1753:GLN:HE22	38:4M:24:THR:CG2	2.04	0.70
39:4S:19:TYR:CG	43:5K:124:MET:HE2	2.26	0.70
41:5A:121:GLN:CA	43:5L:169:LEU:O	2.39	0.70
43:5J:51:HIS:CD2	43:5J:146:TYR:HH	2.09	0.70
12:5e:383:GLU:O	12:5e:386:THR:OG1	2.04	0.70
47:6A:904:PHE:CE2	47:6A:907:LEU:HG	2.26	0.70
47:6A:1088:ALA:HB3	47:6A:1089:LYS:HZ1	1.57	0.70
47:6B:904:PHE:CE2	47:6B:907:LEU:HG	2.26	0.70
48:6F:62:THR:OG1	48:6F:64:ASP:O	2.08	0.70
48:6F:83:ALA:HB3	48:6F:105:LEU:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6J:209:GLU:HB2	49:6J:287:ASP:HB3	1.72	0.70
12:9c:177:ASP:N	12:9c:181:GLU:OE2	2.25	0.70
12:Ag:317:PHE:HB3	12:Ag:321:MET:HE1	1.74	0.70
12:Be:20:PHE:HA	12:Be:230:SER:OG	1.92	0.70
12:Cg:261:PRO:O	12:Cg:262:ARG:HG2	1.91	0.70
1:1B:328:ALA:O	1:1B:332:ILE:HG12	1.92	0.70
2:1D:136:ASP:HA	2:1D:139:ARG:HB2	1.72	0.70
3:1H:855:GLU:OE2	47:6A:387:ARG:NH2	2.24	0.70
3:1H:995:PHE:HE1	47:6A:403:ARG:HG3	1.56	0.70
24:2U:170:ALA:O	24:2U:174:MET:HG2	1.92	0.70
12:2e:109:GLY:HA2	12:2e:147:MET:SD	2.32	0.70
32:3K:193:PRO:HG2	32:3K:206:VAL:HA	1.73	0.70
35:4C:398:PRO:HG2	35:4C:401:ILE:HG22	1.74	0.70
37:4E:581:LEU:H	43:5L:35:LYS:CD	2.04	0.70
37:4F:1093:VAL:N	38:4N:36:VAL:HG22	2.04	0.70
37:4G:854:TYR:HB2	38:4L:85:LEU:HD12	1.74	0.70
37:4G:1334:GLU:HG3	37:4G:1340:PRO:CA	2.22	0.70
37:4H:972:PHE:CG	37:4H:972:PHE:CA	2.75	0.70
37:4H:1083:ILE:HA	38:4M:35:ALA:HB1	1.72	0.70
12:4a:362:LYS:HD2	12:4a:363:MET:HG3	1.74	0.70
47:6B:829:LEU:HD11	47:6B:834:LEU:HD23	1.74	0.70
48:6F:959:VAL:HA	50:6L:411:THR:HG23	1.71	0.70
12:Ba:134:GLN:HA	12:Ba:165:LEU:O	1.92	0.70
12:Be:109:GLY:HA2	12:Be:147:MET:SD	2.32	0.70
12:Da:134:GLN:HA	12:Da:165:LEU:O	1.92	0.70
1:0J:343:ALA:O	1:0J:347:GLU:HG3	1.92	0.70
1:0C:221:GLN:HA	1:0C:226:LYS:CE	2.21	0.70
1:0E:383:LEU:HB3	1:0E:400:CYS:SG	2.32	0.70
1:0L:282:THR:HB	1:0L:285:LEU:HB2	1.73	0.70
1:1B:343:ALA:O	1:1B:347:GLU:HG3	1.92	0.70
2:1E:136:ASP:HA	2:1E:139:ARG:HB2	1.72	0.70
4:1K:25:LYS:HE2	13:Bd:415:GLU:H	1.57	0.70
6:1N:1825:ALA:HB1	6:1N:1832:GLU:HB2	1.73	0.70
12:1e:33:THR:O	12:1e:58:ARG:NH1	2.25	0.70
12:2e:106:TYR:HB2	12:2e:401:GLU:OE2	1.92	0.70
34:3Q:383:ARG:O	34:3Q:387:VAL:HG23	1.92	0.70
37:4E:429:TYR:HB2	37:4E:854:TYR:CE1	2.27	0.70
37:4E:1159:ASP:OD1	38:4O:17:LEU:HB3	1.92	0.70
37:4F:570:LEU:HD13	42:5G:99:LYS:HG2	1.72	0.70
37:4G:540:VAL:CG1	38:4L:69:CYS:SG	2.80	0.70
37:4G:930:VAL:HG22	37:4G:964:PRO:HD3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1084:ARG:NE	38:4M:37:GLY:C	2.49	0.70
40:4T:302:CYS:SG	40:4T:361:VAL:HA	2.32	0.70
40:4U:302:CYS:SG	40:4U:361:VAL:HA	2.32	0.70
40:4V:302:CYS:SG	40:4V:361:VAL:HA	2.32	0.70
41:5A:88:TYR:HA	41:5A:103:PHE:HA	1.73	0.70
42:5H:91:TYR:CE1	43:5L:42:TYR:CB	2.72	0.70
42:5H:130:ALA:HA	43:5L:53:ASP:OD2	1.92	0.70
43:5I:35:LYS:HD3	43:5I:35:LYS:N	2.06	0.70
43:5L:133:ASP:HB2	43:5L:137:ARG:NH1	2.06	0.70
47:6A:180:ILE:HG22	47:6A:184:ARG:NH1	2.06	0.70
12:8a:189:VAL:O	12:8a:193:VAL:HG23	1.92	0.70
12:8c:101:TRP:CD1	12:8c:145:SER:HG	2.09	0.70
12:Ag:20:PHE:HA	12:Ag:230:SER:HB2	1.74	0.70
12:Ca:109:GLY:HA2	12:Ca:147:MET:SD	2.32	0.70
12:Dc:20:PHE:HA	12:Dc:230:SER:HB3	1.74	0.70
12:De:60:VAL:HG21	12:De:86:ARG:HG2	1.74	0.70
1:0K:156:ASN:HB3	1:0K:159:LEU:HD23	1.74	0.70
1:0E:218:VAL:HB	1:0E:255:LYS:HD2	1.74	0.69
1:0V:368:PRO:HA	1:0V:410:LYS:HB3	1.72	0.69
1:0X:206:VAL:HG21	1:0X:243:LEU:HD22	1.74	0.69
1:1A:80:VAL:HG22	1:1A:85:LEU:HD11	1.73	0.69
1:1A:383:LEU:HB3	1:1A:400:CYS:SG	2.32	0.69
2:1D:52:MET:HA	2:1F:17:THR:HG22	1.73	0.69
2:1F:139:ARG:NH2	2:1F:176:HIS:CG	2.60	0.69
3:1H:515:GLY:H	3:1H:572:TYR:HH	1.40	0.69
30:3G:755:ARG:NH2	12:6a:404:ASP:HB2	2.07	0.69
34:3N:489:MET:HE1	34:3U:482:LEU:HD22	1.74	0.69
34:3Q:496:TYR:CD2	34:3T:259:MET:HE1	2.26	0.69
37:4E:1305:VAL:HG22	37:4E:1315:VAL:HG13	1.72	0.69
37:4F:1082:LEU:CG	38:4N:39:HIS:CG	2.75	0.69
37:4F:1333:VAL:HB	38:4N:30:ALA:CB	2.08	0.69
37:4F:1339:ALA:O	38:4N:31:ALA:C	2.35	0.69
37:4G:522:VAL:HG11	37:4G:531:LEU:HD21	1.73	0.69
37:4G:670:GLY:C	37:4G:671:LEU:HD23	2.17	0.69
37:4G:1083:ILE:N	37:4G:1083:ILE:HA	1.97	0.69
37:4G:1083:ILE:HA	38:4L:34:ALA:O	1.91	0.69
38:4I:60:VAL:HB	38:4I:84:LEU:HD23	1.74	0.69
38:4L:60:VAL:HB	38:4L:84:LEU:HD23	1.74	0.69
38:4P:42:ILE:O	38:4P:42:ILE:HG13	1.92	0.69
40:4V:245:GLN:HB3	40:4V:266:LEU:HD11	1.74	0.69
41:5A:142:ARG:HA	43:5L:166:ALA:C	2.16	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5L:147:THR:OG1	43:5L:148:ASN:N	2.22	0.69
48:6E:83:ALA:HB3	48:6E:105:LEU:O	1.92	0.69
50:6L:76:GLY:HA3	50:6L:158:GLN:HG2	1.74	0.69
12:9c:113:ILE:HA	12:9c:116:VAL:HG22	1.73	0.69
12:9c:396:HIS:HA	12:9c:399:THR:HG22	1.73	0.69
12:Ae:86:ARG:HA	12:Be:281:TYR:CE1	2.27	0.69
12:Ba:109:GLY:HA2	12:Ba:147:MET:SD	2.32	0.69
12:Dc:253:LEU:HD11	12:Dc:316:LEU:HD21	1.74	0.69
1:0A:47:ARG:HH12	47:6B:117:LEU:HB2	1.56	0.69
1:1C:358:TRP:HB2	1:1C:399:LYS:HD2	1.74	0.69
7:1O:46:ARG:O	7:1O:49:GLU:HG3	1.92	0.69
17:2J:40:UNK:O	13:Cb:229:ARG:NH2	2.25	0.69
12:2c:86:ARG:NH1	12:3c:281:TYR:O	2.25	0.69
30:3F:484:GLU:CD	13:7b:112:LYS:HZ2	1.99	0.69
30:3F:637:ALA:O	30:3F:641:GLU:HG3	1.91	0.69
30:3G:725:TYR:CE2	13:6b:112:LYS:HD2	2.27	0.69
33:3L:68:ARG:NH1	13:6d:159:VAL:O	2.25	0.69
34:3M:261:ARG:HH21	34:3M:470:SER:HB2	1.56	0.69
34:3R:258:TYR:OH	34:3R:477:GLU:HG3	1.91	0.69
34:3Z:266:HIS:HA	34:3Z:463:HIS:HE1	1.58	0.69
34:4B:92:THR:HG22	34:4B:95:ARG:HH12	1.57	0.69
37:4E:1165:ARG:HH11	37:4E:1184:TRP:CD1	2.10	0.69
37:4E:1184:TRP:CE3	38:4O:28:VAL:HG22	2.27	0.69
37:4F:1082:LEU:CB	38:4N:39:HIS:N	2.52	0.69
37:4F:1335:MET:HG2	37:4F:1338:PHE:HB2	1.73	0.69
37:4G:671:LEU:HD13	38:4I:40:LYS:CA	2.22	0.69
37:4H:1084:ARG:CG	38:4M:37:GLY:CA	2.69	0.69
12:4c:20:PHE:HA	12:4c:230:SER:HB3	1.75	0.69
42:5H:130:ALA:HA	43:5L:53:ASP:CG	2.17	0.69
3:6D:813:VAL:HG11	3:6D:852:ASP:HB3	1.72	0.69
49:6G:285:GLY:HA2	49:6G:333:VAL:HG23	1.74	0.69
49:6H:285:GLY:HA2	49:6H:333:VAL:HG23	1.74	0.69
49:6I:209:GLU:HB2	49:6I:287:ASP:HB3	1.72	0.69
12:8g:174:LYS:HE3	12:8g:175:VAL:HG23	1.72	0.69
12:9e:207:LEU:HD11	12:9e:229:ILE:HD11	1.73	0.69
12:Aa:109:GLY:HA2	12:Aa:147:MET:SD	2.32	0.69
12:Da:33:THR:O	12:Da:58:ARG:NH1	2.25	0.69
1:0A:248:VAL:HG11	1:0A:285:LEU:HG	1.75	0.69
1:0Q:248:VAL:HG21	1:0Q:285:LEU:HD22	1.72	0.69
1:0V:343:ALA:O	1:0V:347:GLU:HG3	1.92	0.69
14:2G:165:LEU:O	12:Ae:361:LEU:HD21	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:3L:59:LYS:HD2	33:3L:83:LYS:HG3	1.73	0.69
34:3N:323:ALA:O	34:3N:326:GLU:HG3	1.93	0.69
34:3Q:294:HIS:CE1	34:3Q:437:GLY:HA3	2.27	0.69
12:3e:113:ILE:HA	12:3e:116:VAL:HG12	1.74	0.69
37:4E:587:ALA:N	37:4E:587:ALA:CB	2.54	0.69
37:4E:854:TYR:HB3	38:4O:82:TYR:CE1	2.26	0.69
37:4F:586:PHE:CZ	43:5K:72:LEU:HD21	2.28	0.69
37:4F:1324:THR:CG2	37:4F:1324:THR:OG1	2.40	0.69
37:4H:972:PHE:CB	37:4H:972:PHE:CD2	2.64	0.69
38:4L:57:VAL:O	38:4L:60:VAL:N	2.23	0.69
38:4M:60:VAL:HB	38:4M:84:LEU:HD23	1.74	0.69
40:4T:245:GLN:HB3	40:4T:266:LEU:HD11	1.74	0.69
43:5J:15:LEU:HD13	43:5J:69:ASP:OD2	1.91	0.69
43:5L:15:LEU:HD13	43:5L:69:ASP:OD2	1.91	0.69
47:6B:180:ILE:HG22	47:6B:184:ARG:NH1	2.06	0.69
47:6B:204:PHE:CE2	12:Bg:110:ALA:HB2	2.27	0.69
49:6J:266:LEU:O	49:6J:270:ASN:ND2	2.25	0.69
12:9g:113:ILE:HA	12:9g:116:VAL:HG22	1.74	0.69
12:De:134:GLN:HA	12:De:165:LEU:O	1.93	0.69
12:Dg:417:ASP:O	12:Dg:421:GLU:HG2	1.92	0.69
1:0W:257:LEU:HD21	1:0W:294:GLY:HA2	1.73	0.69
1:0L:167:GLY:O	1:0L:169:VAL:N	2.24	0.69
1:0T:337:LEU:O	1:0T:341:VAL:HG23	1.92	0.69
1:1C:383:LEU:HB3	1:1C:400:CYS:SG	2.33	0.69
6:1N:2548:HIS:HE2	6:1N:2594:GLY:HA2	1.56	0.69
10:1R:295:MET:HE1	31:3H:132:LYS:O	1.93	0.69
13:1f:222:PRO:HD2	12:1g:324:LYS:HG2	1.74	0.69
31:3I:278:ALA:C	13:9h:402:ARG:HH22	1.99	0.69
32:3J:366:LYS:HB2	12:9a:423:GLN:OE1	1.92	0.69
34:3N:48:HIS:CD2	34:3N:222:LEU:HG	2.26	0.69
34:3N:107:TYR:O	34:3N:111:ILE:HG12	1.93	0.69
34:3X:338:LEU:O	34:3X:342:GLN:NE2	2.25	0.69
12:3a:135:VAL:HB	12:3a:166:THR:HG22	1.73	0.69
12:3a:330:MET:HB3	12:3a:349:VAL:HG11	1.74	0.69
12:3g:317:PHE:HB3	12:3g:321:MET:HE1	1.75	0.69
35:4C:703:VAL:HG11	46:5Z:36:UNK:CB	2.23	0.69
36:4D:29:GLU:OE1	36:4D:144:ARG:NH2	2.25	0.69
37:4F:958:LEU:HG	37:4F:959:LEU:H	1.57	0.69
37:4F:1093:VAL:HA	38:4N:36:VAL:CB	2.21	0.69
37:4G:670:GLY:N	37:4G:671:LEU:HG	2.06	0.69
37:4G:1082:LEU:HB3	38:4L:36:VAL:HG12	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1333:VAL:HG23	38:4L:25:PRO:N	2.07	0.69
37:4H:1138:VAL:HG11	38:4M:30:ALA:CB	2.23	0.69
38:4K:60:VAL:HB	38:4K:84:LEU:HD23	1.74	0.69
38:4L:60:VAL:HG12	38:4L:84:LEU:HA	1.74	0.69
40:4U:245:GLN:HB3	40:4U:266:LEU:HD11	1.74	0.69
43:5K:42:TYR:CD2	43:5K:42:TYR:N	2.59	0.69
47:6B:176:THR:HA	13:Ch:309:HIS:CD2	2.27	0.69
50:6K:76:GLY:HA3	50:6K:158:GLN:HG2	1.74	0.69
13:6f:222:PRO:HD2	12:6g:324:LYS:HG2	1.74	0.69
12:9a:189:VAL:O	12:9a:193:VAL:HG23	1.91	0.69
12:Be:235:GLY:HA3	12:Be:366:THR:HG21	1.74	0.69
12:Be:397:TRP:HZ2	13:Bf:260:VAL:HB	1.57	0.69
12:Ca:208:TYR:OH	13:Cb:325:PRO:HB2	1.92	0.69
1:0F:342:SER:O	1:0F:346:GLU:HG2	1.92	0.69
1:0T:137:PHE:CE1	5:1L:91:THR:HA	2.27	0.69
1:1B:18:VAL:O	1:1B:22:THR:HG23	1.93	0.69
3:1H:991:ILE:HG21	3:1H:1010:LEU:CD1	2.22	0.69
5:1M:518:LEU:HD21	13:1f:189:LEU:HD13	1.75	0.69
23:2Q:79:UNK:CA	12:3e:213:ARG:HH21	2.03	0.69
34:3O:90:GLU:O	34:3O:94:THR:HG23	1.92	0.69
34:3S:503:ASN:HA	34:3S:506:GLU:OE1	1.92	0.69
12:3a:109:GLY:HA2	12:3a:147:MET:SD	2.32	0.69
35:4C:1088:GLN:HE22	37:4E:724:LEU:HD13	1.56	0.69
37:4E:586:PHE:N	43:5L:10:LEU:CD2	2.54	0.69
37:4F:1341:ILE:HG12	37:4F:1350:ILE:HD13	1.75	0.69
37:4G:516:SER:OG	37:4G:1105:LEU:HB3	1.91	0.69
37:4G:795:LEU:HB3	37:4G:815:ALA:HB2	1.74	0.69
37:4H:972:PHE:CE2	37:4H:974:VAL:CG2	2.76	0.69
37:4H:1084:ARG:N	38:4M:35:ALA:HA	2.07	0.69
37:4H:1324:THR:H	38:4M:25:PRO:CD	2.05	0.69
38:4J:60:VAL:HG12	38:4J:84:LEU:HA	1.74	0.69
12:4a:86:ARG:NH1	12:5a:281:TYR:HA	2.07	0.69
42:5G:79:HIS:O	42:5G:83:GLN:HG3	1.91	0.69
42:5H:135:ARG:HG2	43:5L:54:LEU:CA	2.20	0.69
43:5K:112:PRO:O	44:5U:111:HIS:CD2	2.41	0.69
43:5L:35:LYS:N	43:5L:35:LYS:HD3	2.07	0.69
48:6F:987:MET:HE3	48:6F:995:VAL:HG21	1.74	0.69
49:6H:266:LEU:O	49:6H:270:ASN:ND2	2.25	0.69
50:6L:84:VAL:O	50:6L:88:ILE:HG12	1.92	0.69
12:Be:73:MET:HE3	12:Be:92:PHE:HB3	1.73	0.69
12:Bg:253:LEU:HD11	12:Bg:316:LEU:HD21	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bg:329:GLN:O	12:Bg:333:VAL:HG23	1.92	0.69
12:De:60:VAL:CG2	12:De:86:ARG:HG2	2.23	0.69
12:Dg:253:LEU:HD11	12:Dg:316:LEU:HD21	1.75	0.69
1:0H:21:VAL:HG22	1:0H:49:LEU:HD13	1.73	0.69
1:0I:6:VAL:HG13	1:0I:10:PHE:HE2	1.56	0.69
1:0P:21:VAL:HG22	1:0P:49:LEU:HD13	1.75	0.69
1:1B:387:GLU:HA	1:1B:397:LYS:HE3	1.73	0.69
1:1C:156:ASN:HB3	1:1C:159:LEU:HD23	1.74	0.69
12:1a:33:THR:O	12:1a:58:ARG:NH1	2.26	0.69
12:1c:317:PHE:HB3	12:1c:321:MET:HE1	1.74	0.69
12:1e:99:ASN:HB2	13:1f:258:ASN:HD21	1.58	0.69
12:2a:109:GLY:HA2	12:2a:147:MET:SD	2.32	0.69
12:2e:222:PHE:HE2	13:2f:248:LEU:HG	1.58	0.69
34:3P:383:ARG:O	34:3P:387:VAL:HG23	1.92	0.69
12:3g:11:GLN:HE22	13:3h:249:ASN:H	1.41	0.69
35:4C:915:LEU:HD23	35:4C:1072:ARG:HA	1.74	0.69
37:4E:589:PRO:CB	43:5L:19:ARG:H	2.06	0.69
37:4E:1110:GLY:HA2	43:5L:140:LYS:HD2	1.73	0.69
37:4F:1082:LEU:CD2	38:4N:42:ILE:CB	2.69	0.69
37:4F:1092:LEU:O	38:4N:36:VAL:O	2.11	0.69
37:4G:1083:ILE:H	38:4L:38:VAL:HB	1.57	0.69
37:4H:1138:VAL:HG13	37:4H:1139:THR:C	2.16	0.69
41:4Y:101:GLY:O	41:4Y:112:SER:HA	1.92	0.69
12:5g:91:VAL:HG11	12:5g:116:VAL:HG22	1.74	0.69
47:6B:172:LEU:HD11	13:Ch:390:ARG:CD	2.23	0.69
48:6E:987:MET:HE3	48:6E:995:VAL:HG21	1.74	0.69
50:6K:84:VAL:O	50:6K:88:ILE:HG12	1.92	0.69
12:6c:253:LEU:HD11	12:6c:316:LEU:HD21	1.72	0.69
12:Aa:282:ARG:NH2	12:Aa:292:GLN:OE1	2.16	0.69
12:Bc:332:ASN:HD21	12:Bc:336:LYS:HD2	1.57	0.69
13:Cf:224:TYR:HE2	12:Cg:246:LEU:HB2	1.58	0.69
1:0I:248:VAL:HG21	1:0I:285:LEU:HD22	1.74	0.69
1:0A:376:ASP:HB3	31:3I:201:ARG:HG2	1.74	0.69
1:0C:344:LEU:HB3	1:0C:382:THR:HG21	1.75	0.69
1:0F:248:VAL:HG21	1:0F:285:LEU:HD22	1.74	0.69
1:0L:248:VAL:HG11	1:0L:285:LEU:HG	1.74	0.69
1:0L:343:ALA:O	1:0L:347:GLU:HG3	1.92	0.69
1:0P:194:ILE:HG23	1:0P:201:LEU:HD13	1.73	0.69
1:0Q:149:LEU:HD22	1:0Q:163:VAL:HG13	1.74	0.69
1:0Q:286:ALA:HB1	1:0Q:320:ILE:HG22	1.75	0.69
1:0R:137:PHE:HD1	4:1K:120:ARG:HD2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1I:231:SER:O	3:1I:235:MET:HG2	1.92	0.69
32:3K:141:VAL:HG23	32:3K:228:GLU:OE2	1.92	0.69
34:3R:328:MET:HE1	34:4B:233:ALA:HB2	1.75	0.69
34:3T:352:LEU:HD22	34:3T:382:LEU:HD11	1.73	0.69
34:3W:92:THR:HG22	34:3W:95:ARG:HH12	1.57	0.69
36:4D:218:ARG:HG2	46:5Z:95:MET:HB3	1.74	0.69
37:4E:515:TYR:OH	37:4E:532:VAL:HG13	1.92	0.69
37:4E:589:PRO:C	43:5L:19:ARG:C	2.61	0.69
37:4F:930:VAL:HG22	37:4F:964:PRO:HD3	1.74	0.69
37:4G:958:LEU:HD22	38:4L:45:ALA:HB1	1.74	0.69
37:4G:1132:PRO:HG2	38:4L:36:VAL:HG23	1.75	0.69
37:4G:1321:THR:O	38:4L:26:GLU:OE1	2.10	0.69
38:4N:60:VAL:HG12	38:4N:84:LEU:HA	1.74	0.69
12:4e:134:GLN:HA	12:4e:165:LEU:O	1.92	0.69
42:5H:135:ARG:HH22	43:5L:59:LEU:CD1	2.06	0.69
49:6I:266:LEU:O	49:6I:270:ASN:ND2	2.25	0.69
51:6N:2493:ALA:HA	51:6N:2496:ARG:HD2	1.75	0.69
12:7a:109:GLY:HA2	12:7a:147:MET:SD	2.32	0.69
12:Ac:317:PHE:HB3	12:Ac:321:MET:HE1	1.75	0.69
12:Bg:317:PHE:HB3	12:Bg:321:MET:HE1	1.75	0.69
12:Cg:73:MET:HA	12:Cg:76:VAL:HG22	1.73	0.69
1:0J:76:ALA:HB1	1:0J:110:VAL:HG13	1.74	0.69
1:0A:7:LEU:HD21	47:6B:137:HIS:HD2	1.56	0.69
1:0F:105:PHE:HA	1:0F:108:ARG:HE	1.57	0.69
1:0L:12:ARG:NH1	1:0M:16:GLU:OE1	2.25	0.69
1:0N:282:THR:HB	1:0N:285:LEU:HB2	1.73	0.69
1:0U:105:PHE:HA	1:0U:108:ARG:HE	1.57	0.69
5:1M:559:ALA:HB1	12:1e:392:LYS:HD2	1.73	0.69
6:1N:155:VAL:HB	6:1N:159:HIS:NE2	2.08	0.69
6:1N:155:VAL:HG12	6:1N:167:LEU:HD22	1.75	0.69
7:1O:1610:ALA:HB1	7:1O:1618:GLU:HG3	1.75	0.69
10:1S:60:ARG:HB3	10:1S:96:SER:OG	1.93	0.69
14:2F:167:TRP:HB2	12:Aa:361:LEU:HD13	1.74	0.69
24:2T:151:PHE:O	13:Dh:176:GLN:HG3	1.92	0.69
24:2V:164:VAL:HG11	13:Df:309:HIS:NE2	2.07	0.69
34:3O:111:ILE:HD12	34:3O:383:ARG:HH11	1.57	0.69
34:3Q:111:ILE:HD12	34:3Q:383:ARG:HH11	1.57	0.69
34:3Y:267:GLU:H	34:3Y:270:ILE:HD13	1.58	0.69
13:3b:222:PRO:HD2	12:3c:324:LYS:HG2	1.72	0.69
12:3c:20:PHE:HA	12:3c:230:SER:HB2	1.74	0.69
37:4E:585:VAL:CB	43:5L:10:LEU:HG	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:586:PHE:CG	43:5L:15:LEU:HG	2.28	0.69
37:4F:1083:ILE:O	38:4N:41:LYS:CE	2.40	0.69
37:4F:1083:ILE:CG1	37:4F:1358:LEU:HD12	2.22	0.69
37:4G:534:HIS:O	37:4G:537:LEU:HB2	1.93	0.69
37:4G:856:MET:HG2	38:4L:85:LEU:CB	2.18	0.69
37:4G:1323:ILE:CB	38:4L:26:GLU:CG	2.70	0.69
37:4H:1081:HIS:HB3	37:4H:1338:PHE:CE1	2.27	0.69
37:4H:1138:VAL:HG11	38:4M:30:ALA:HB1	1.75	0.69
37:4H:1341:ILE:HG23	37:4H:1350:ILE:HG12	1.75	0.69
38:4I:66:GLN:C	38:4I:69:CYS:HB3	2.18	0.69
38:4J:60:VAL:HB	38:4J:84:LEU:HD23	1.74	0.69
38:4N:60:VAL:HB	38:4N:84:LEU:HD23	1.74	0.69
41:4X:101:GLY:O	41:4X:112:SER:HA	1.92	0.69
41:4Z:101:GLY:O	41:4Z:112:SER:HA	1.92	0.69
41:5C:167:PRO:HA	41:5C:171:CYS:H	1.57	0.69
42:5H:133:LEU:HD12	42:5H:140:TYR:CD1	2.28	0.69
42:5H:156:GLU:C	43:5L:157:ALA:O	2.35	0.69
42:5H:158:MET:HA	43:5L:158:HIS:CB	2.21	0.69
43:5J:147:THR:OG1	43:5J:148:ASN:N	2.22	0.69
12:5a:101:TRP:CD1	12:5a:145:SER:HG	2.09	0.69
3:6D:1009:ARG:C	3:6D:1010:LEU:HD22	2.18	0.69
48:6E:874:LEU:HD13	48:6E:921:VAL:HG11	1.75	0.69
49:6G:266:LEU:O	49:6G:270:ASN:ND2	2.25	0.69
49:6J:285:GLY:HA2	49:6J:333:VAL:HG23	1.74	0.69
51:6M:2493:ALA:HA	51:6M:2496:ARG:HD2	1.75	0.69
51:6N:1540:LEU:HD11	51:6N:2107:THR:HG23	1.74	0.69
12:6g:317:PHE:HB3	12:6g:321:MET:HE1	1.75	0.69
12:7e:87:PRO:HD3	12:8e:281:TYR:HD1	1.58	0.69
12:8c:113:ILE:HA	12:8c:116:VAL:HG12	1.74	0.69
12:8e:109:GLY:HA2	12:8e:147:MET:SD	2.32	0.69
12:9a:375:GLN:HB2	12:9a:419:VAL:HG13	1.75	0.69
12:Bc:317:PHE:HB3	12:Bc:321:MET:HE1	1.75	0.69
12:Ca:257:LEU:HD23	12:Ca:312:THR:HG22	1.73	0.69
12:Dc:417:ASP:O	12:Dc:421:GLU:HG2	1.93	0.69
1:0J:211:VAL:HG13	1:0J:233:LEU:HD21	1.75	0.69
1:0J:218:VAL:HG12	1:0J:255:LYS:HB3	1.74	0.69
1:0C:335:LYS:HD3	1:0C:335:LYS:O	1.92	0.69
4:1J:66:HIS:CD2	47:6B:4:LEU:HD12	2.27	0.69
6:1N:1016:LEU:HD23	6:1N:1073:GLN:HG3	1.75	0.69
7:1O:1754:ALA:HB1	7:1O:1759:LEU:HD13	1.75	0.69
12:2g:317:PHE:HB3	12:2g:321:MET:HE1	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:3F:342:ARG:HH12	30:3F:344:ASN:HD22	1.41	0.69
31:3H:178:ALA:O	31:3H:182:GLN:HG2	1.92	0.69
12:3a:134:GLN:HA	12:3a:165:LEU:O	1.92	0.69
37:4E:581:LEU:CA	43:5L:32:LEU:CA	2.71	0.69
37:4F:1082:LEU:CD1	38:4N:43:ASN:CB	2.68	0.69
37:4F:1308:TYR:CE2	37:4F:1314:LEU:HB2	2.20	0.69
37:4H:1073:LEU:N	38:4M:41:LYS:HZ1	1.91	0.69
37:4H:1136:ARG:CG	38:4M:33:LYS:HZ3	2.04	0.69
38:4K:60:VAL:HG12	38:4K:84:LEU:HA	1.74	0.69
38:4N:78:GLU:O	38:4N:82:TYR:CG	2.46	0.69
13:4b:224:TYR:HE2	12:4c:246:LEU:HB2	1.58	0.69
12:4c:45:GLU:OE1	12:4c:46:ARG:HG2	1.93	0.69
12:5c:317:PHE:HB3	12:5c:321:MET:HE1	1.74	0.69
12:5e:20:PHE:HA	12:5e:230:SER:OG	1.92	0.69
47:6A:1660:GLY:HA2	47:6A:1768:TYR:HE1	1.58	0.69
47:6B:205:ARG:HG3	12:Bg:106:TYR:CG	2.28	0.69
47:6B:904:PHE:HE2	47:6B:907:LEU:HG	1.58	0.69
48:6F:874:LEU:HD13	48:6F:921:VAL:HG11	1.75	0.69
49:6I:285:GLY:HA2	49:6I:333:VAL:HG23	1.74	0.69
51:6M:1473:LEU:O	51:6M:1478:TYR:OH	2.11	0.69
12:6e:109:GLY:HA2	12:6e:147:MET:SD	2.32	0.69
12:Ae:134:GLN:HA	12:Ae:165:LEU:O	1.93	0.69
12:Ba:45:GLU:HG3	12:Ba:46:ARG:HG2	1.74	0.69
1:0G:329:LEU:HD22	39:4R:118:ARG:HH21	1.58	0.69
1:0G:353:LYS:HB2	1:0G:396:LEU:HD21	1.74	0.69
1:0P:108:ARG:CD	1:0P:147:TRP:HD1	2.03	0.69
1:0Z:335:LYS:HD3	1:0Z:335:LYS:O	1.92	0.69
12:1e:228:LEU:HD23	14:2F:11:PHE:CZ	2.27	0.69
12:2g:20:PHE:HA	12:2g:230:SER:HB3	1.75	0.69
12:2g:113:ILE:HA	12:2g:116:VAL:HG22	1.75	0.69
34:3N:486:ARG:HA	34:3N:489:MET:HE3	1.73	0.69
34:3O:265:GLN:HE22	34:3O:463:HIS:HA	1.57	0.69
37:4G:1341:ILE:CD1	38:4L:31:ALA:H	2.05	0.69
37:4H:1302:ASN:HA	43:5J:122:MET:HE1	1.75	0.69
37:4H:1333:VAL:HB	37:4H:1341:ILE:HB	1.75	0.69
12:4e:135:VAL:HG21	12:4e:152:ILE:HD11	1.74	0.69
12:8a:322:SER:HB2	12:8a:324:LYS:HE2	1.74	0.69
12:8g:317:PHE:HB3	12:8g:321:MET:HE1	1.74	0.69
12:Aa:86:ARG:HA	12:Ba:281:TYR:CE1	2.28	0.69
12:De:60:VAL:HB	12:De:86:ARG:CZ	2.23	0.69
12:Dg:20:PHE:HA	12:Dg:230:SER:HB3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Z:91:SER:HA	1:0Z:99:TYR:CE2	2.28	0.68
6:1N:159:HIS:ND1	8:1P:753:LEU:HD22	2.07	0.68
14:2F:103:THR:HA	12:Ca:280:GLN:HE22	1.57	0.68
24:2T:209:TYR:HD1	24:2T:214:ILE:HD11	1.58	0.68
31:3I:121:GLN:HG2	31:3I:125:LYS:HE3	1.75	0.68
34:3M:255:HIS:O	34:3M:259:MET:HG2	1.93	0.68
34:3P:346:ALA:O	34:3P:349:LEU:HG	1.93	0.68
37:4E:581:LEU:CG	43:5L:33:LEU:CB	2.71	0.68
37:4E:584:ALA:O	37:4E:585:VAL:C	2.35	0.68
37:4G:1083:ILE:CG2	38:4L:34:ALA:HB1	2.21	0.68
37:4H:1334:GLU:H	38:4M:28:VAL:HA	1.58	0.68
39:4S:64:GLN:HA	44:5R:113:MET:HE1	1.75	0.68
42:5H:92:THR:CA	43:5L:41:ASP:O	2.42	0.68
42:5H:135:ARG:CB	43:5L:51:HIS:C	2.66	0.68
42:5H:139:LEU:HB3	43:5L:145:SER:HB3	1.74	0.68
12:5g:253:LEU:HD11	12:5g:316:LEU:HD21	1.74	0.68
47:6A:904:PHE:HE2	47:6A:907:LEU:HG	1.58	0.68
47:6B:1660:GLY:HA2	47:6B:1768:TYR:HE1	1.58	0.68
51:6N:1473:LEU:O	51:6N:1478:TYR:OH	2.11	0.68
12:6e:134:GLN:HA	12:6e:165:LEU:O	1.93	0.68
12:6g:86:ARG:HG3	12:7g:281:TYR:HB3	1.75	0.68
12:Aa:134:GLN:HA	12:Aa:165:LEU:O	1.93	0.68
13:Ad:403:ALA:HB2	12:Ae:344:TRP:HZ3	1.58	0.68
12:Ca:87:PRO:HD3	12:Da:281:TYR:CD1	2.28	0.68
12:Dc:317:PHE:HB3	12:Dc:321:MET:HE1	1.75	0.68
1:0E:20:PHE:CD1	1:0F:13:TYR:HB2	2.29	0.68
1:0R:178:GLU:OE2	4:1K:146:ASN:ND2	2.25	0.68
1:0U:368:PRO:HA	1:0U:410:LYS:HB3	1.74	0.68
1:0Y:30:ASN:HB2	1:0Y:33:ASN:HD22	1.58	0.68
1:1A:332:ILE:HG13	1:1A:370:HIS:ND1	2.08	0.68
10:1R:162:TRP:CZ2	12:Ac:324:LYS:HE2	2.27	0.68
10:1R:172:VAL:HG22	13:Ab:397:LEU:HD12	1.74	0.68
10:1S:58:THR:HG22	13:Ah:339:ARG:NH2	2.09	0.68
12:2g:178:THR:OG1	12:2g:181:GLU:HG3	1.93	0.68
31:3H:202:ALA:O	31:3H:206:GLU:HG3	1.91	0.68
32:3J:101:PRO:HD3	12:Ac:421:GLU:CD	2.18	0.68
33:3L:200:GLN:HE22	12:7e:390:ARG:HG2	1.56	0.68
34:3R:117:ARG:O	34:3R:121:LEU:HG	1.94	0.68
12:3c:317:PHE:HB3	12:3c:321:MET:HE1	1.75	0.68
34:4B:118:HIS:HE1	34:4B:356:PHE:HB3	1.57	0.68
37:4E:581:LEU:HB2	43:5L:31:ASP:CA	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1077:THR:N	37:4F:1081:HIS:O	2.26	0.68
37:4G:519:LEU:HD21	37:4G:531:LEU:HG	1.73	0.68
37:4G:1075:VAL:HG11	37:4G:1352:PRO:CG	2.24	0.68
40:4V:554:LEU:HD11	40:4V:631:ALA:HB1	1.75	0.68
12:4a:322:SER:HB2	12:4a:324:LYS:HG2	1.74	0.68
41:5B:167:PRO:HA	41:5B:171:CYS:H	1.57	0.68
43:5J:112:PRO:HB3	44:5T:115:ASN:CB	2.23	0.68
12:5g:176:SER:HB2	12:5g:181:GLU:OE1	1.93	0.68
47:6A:1535:ASP:O	47:6A:1537:ALA:N	2.27	0.68
47:6B:1535:ASP:O	47:6B:1537:ALA:N	2.27	0.68
50:6L:539:LYS:O	50:6L:543:GLU:HG2	1.94	0.68
51:6M:1540:LEU:HD11	51:6M:2107:THR:HG23	1.74	0.68
12:7g:177:ASP:N	12:7g:181:GLU:OE2	2.26	0.68
12:Be:134:GLN:HA	12:Be:165:LEU:O	1.93	0.68
13:Cb:407:TRP:HE1	12:Cc:258:ILE:HB	1.57	0.68
12:Da:73:MET:HA	12:Da:76:VAL:HG12	1.75	0.68
1:0I:62:ALA:HA	1:0I:65:LEU:HD12	1.75	0.68
1:0B:257:LEU:HD21	1:0B:294:GLY:HA2	1.76	0.68
1:0Q:62:ALA:HA	1:0Q:65:LEU:HD12	1.75	0.68
1:0U:354:SER:OG	1:0U:399:LYS:HG3	1.93	0.68
3:1H:231:SER:O	3:1H:235:MET:HG2	1.92	0.68
10:1R:398:VAL:HG13	13:Ab:123:ARG:HH22	1.59	0.68
10:1S:383:GLY:HA3	13:Bf:207:GLU:OE2	1.93	0.68
12:2a:86:ARG:HG3	12:3a:281:TYR:HB3	1.73	0.68
32:3J:355:ARG:CZ	12:9a:416:ASN:HD22	2.06	0.68
34:3R:267:GLU:H	34:3R:270:ILE:HD13	1.58	0.68
34:4A:119:MET:HE3	37:4F:1529:ILE:HG23	1.74	0.68
37:4F:1334:GLU:HA	37:4F:1339:ALA:O	1.93	0.68
37:4G:534:HIS:HE2	38:4I:50:ARG:NH2	1.90	0.68
37:4G:1333:VAL:CG1	38:4L:27:ALA:H	2.06	0.68
38:4I:60:VAL:HG12	38:4I:84:LEU:HA	1.74	0.68
38:4L:78:GLU:O	38:4L:82:TYR:CG	2.46	0.68
38:4M:46:ALA:HA	38:4M:49:ILE:HD13	1.75	0.68
38:4M:78:GLU:O	38:4M:82:TYR:CG	2.46	0.68
12:4g:317:PHE:HB3	12:4g:321:MET:HE1	1.76	0.68
41:5D:167:PRO:HA	41:5D:171:CYS:H	1.57	0.68
42:5H:139:LEU:CD2	43:5L:142:TYR:O	2.41	0.68
48:6F:202:ARG:NH2	49:6H:464:ASN:OD1	2.26	0.68
50:6K:539:LYS:O	50:6K:543:GLU:HG2	1.94	0.68
12:Ce:87:PRO:HD3	12:De:281:TYR:CD1	2.28	0.68
1:0H:108:ARG:CD	1:0H:147:TRP:HD1	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0E:88:LEU:O	1:0E:91:SER:HB3	1.93	0.68
1:0G:342:SER:O	1:0G:346:GLU:HG2	1.93	0.68
3:1I:174:SER:OG	3:1I:176:VAL:HG23	1.93	0.68
6:1N:158:LEU:HB3	6:1N:167:LEU:HD11	1.75	0.68
10:1S:364:PHE:HA	12:Bg:337:ASN:CG	2.19	0.68
10:1S:418:ASN:ND2	13:Af:55:GLU:OE2	2.27	0.68
12:1g:253:LEU:HD11	12:1g:316:LEU:HD21	1.76	0.68
30:3G:539:LEU:HD22	30:3G:540:GLU:CD	2.18	0.68
34:3S:269:GLY:HA3	34:3S:463:HIS:ND1	2.08	0.68
34:3S:334:LEU:O	34:3S:338:LEU:HD23	1.93	0.68
34:3V:96:HIS:O	34:3V:100:ILE:HG12	1.93	0.68
37:4E:578:ASP:CA	43:5L:42:TYR:OH	2.41	0.68
37:4E:586:PHE:CZ	43:5L:10:LEU:HD13	2.28	0.68
37:4E:1173:LEU:HB2	37:4E:1204:LYS:HG2	1.74	0.68
37:4E:1187:THR:HG23	37:4E:1193:ARG:HG2	1.75	0.68
37:4F:856:MET:CE	38:4N:85:LEU:HD22	2.24	0.68
37:4F:959:LEU:O	37:4F:970:SER:CA	2.29	0.68
37:4G:412:LEU:O	37:4G:416:VAL:HG13	1.94	0.68
37:4G:1082:LEU:CD1	38:4L:39:HIS:HB2	2.21	0.68
37:4H:972:PHE:HE1	38:4M:41:LYS:HE2	1.58	0.68
37:4H:1091:VAL:HG22	37:4H:1138:VAL:CG1	2.23	0.68
37:4H:1332:SER:HA	37:4H:1342:LEU:HD23	1.74	0.68
38:4J:24:THR:HG23	38:4J:25:PRO:HD3	1.75	0.68
38:4N:24:THR:HG23	38:4N:25:PRO:HD3	1.75	0.68
40:4T:554:LEU:HD11	40:4T:631:ALA:HB1	1.75	0.68
12:4c:317:PHE:HB3	12:4c:321:MET:HE1	1.75	0.68
41:5A:141:ASN:CA	43:5L:168:GLU:N	2.55	0.68
42:5H:158:MET:HG3	43:5L:159:PRO:N	2.08	0.68
47:6B:975:GLU:O	47:6B:978:THR:OG1	2.10	0.68
48:6E:702:LEU:HD22	48:6E:827:LEU:HD21	1.75	0.68
48:6E:995:VAL:HG22	48:6E:1045:PHE:HB2	1.76	0.68
48:6F:995:VAL:HG22	48:6F:1045:PHE:HB2	1.76	0.68
12:7c:253:LEU:HD11	12:7c:316:LEU:HD21	1.75	0.68
12:9g:317:PHE:HB3	12:9g:321:MET:HE1	1.75	0.68
12:Bc:332:ASN:ND2	12:Bc:336:LYS:HD2	2.08	0.68
1:0I:248:VAL:HG13	1:0I:278:VAL:HG11	1.76	0.68
1:0K:80:VAL:HG22	1:0K:85:LEU:HD11	1.74	0.68
1:0A:94:GLU:OE1	47:6B:110:LYS:HE2	1.93	0.68
1:0M:198:THR:HB	1:0M:201:LEU:HG	1.76	0.68
1:1B:122:ILE:HG13	1:1B:159:LEU:HD22	1.75	0.68
7:1O:669:LEU:HA	7:1O:672:CYS:SG	2.33	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1a:134:GLN:HA	12:1a:165:LEU:O	1.93	0.68
12:1a:222:PHE:CE2	13:1b:248:LEU:HG	2.28	0.68
12:1e:253:LEU:HD11	12:1e:316:LEU:HD21	1.75	0.68
14:2G:122:ALA:HB3	13:Bf:322:ASP:OD1	1.93	0.68
12:2c:113:ILE:HA	12:2c:116:VAL:HG22	1.75	0.68
30:3F:316:GLU:O	30:3F:320:THR:HG23	1.93	0.68
32:3K:155:ARG:HG2	32:3K:243:PHE:HB2	1.76	0.68
32:3K:226:ILE:HG22	32:3K:228:GLU:H	1.57	0.68
33:3L:38:LEU:HG	33:3L:57:LEU:CD2	2.24	0.68
34:3R:248:PHE:CE2	34:3W:485:TYR:HA	2.24	0.68
37:4E:528:SER:HA	38:4O:49:ILE:HD11	1.75	0.68
37:4E:585:VAL:HA	43:5L:37:THR:HG23	1.75	0.68
37:4E:1101:LEU:HG	37:4E:1132:PRO:HG3	1.75	0.68
37:4F:1341:ILE:HB	38:4N:30:ALA:HB3	1.73	0.68
37:4G:538:GLU:CD	37:4G:664:TYR:CE2	2.72	0.68
37:4G:1137:ALA:O	37:4G:1145:VAL:HB	1.94	0.68
38:4K:78:GLU:O	38:4K:82:TYR:CG	2.46	0.68
39:4R:69:GLY:HA2	44:5Q:41:ARG:HD3	1.76	0.68
51:6M:1936:GLU:OE1	51:6M:1976:ASN:ND2	2.26	0.68
51:6M:2315:ASP:O	51:6M:2319:THR:HG23	1.93	0.68
12:9a:178:THR:OG1	12:9a:181:GLU:HG3	1.94	0.68
1:0K:180:GLU:HB3	1:0K:183:LEU:HG	1.76	0.68
1:0K:383:LEU:HB3	1:0K:400:CYS:SG	2.33	0.68
1:0G:134:LEU:HG	1:0G:145:SER:OG	1.94	0.68
1:0L:71:TYR:HE1	31:3I:496:LEU:HD23	1.59	0.68
1:0R:319:TYR:OH	47:6B:273:GLY:C	2.36	0.68
10:1R:364:PHE:CE2	10:1R:366:LYS:HG2	2.28	0.68
12:1c:417:ASP:O	12:1c:421:GLU:HG2	1.92	0.68
12:1e:134:GLN:HA	12:1e:165:LEU:O	1.93	0.68
15:2H:134:UNK:HA	12:9g:216:LYS:HD3	1.76	0.68
34:3O:485:TYR:O	34:3O:489:MET:HG3	1.93	0.68
34:3T:45:ASN:HB3	34:3T:284:PHE:CE2	2.29	0.68
34:3W:118:HIS:HE1	34:3W:356:PHE:HB3	1.58	0.68
34:3W:266:HIS:HA	34:3W:463:HIS:HE1	1.58	0.68
37:4E:581:LEU:O	43:5L:32:LEU:O	2.09	0.68
37:4E:583:GLU:C	43:5L:33:LEU:O	2.36	0.68
37:4E:975:VAL:HG21	38:4O:39:HIS:HE1	1.57	0.68
37:4E:1442:ASP:OD2	37:4E:1514:PRO:HB3	1.94	0.68
37:4G:1076:THR:HG21	38:4L:42:ILE:HD12	1.76	0.68
37:4G:1082:LEU:CG	37:4G:1101:LEU:HD11	2.23	0.68
37:4G:1335:MET:CE	37:4G:1338:PHE:HB2	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1322:ARG:C	38:4M:25:PRO:CG	2.65	0.68
38:4N:66:GLN:C	38:4N:69:CYS:HB3	2.18	0.68
40:4U:554:LEU:HD11	40:4U:631:ALA:HB1	1.75	0.68
12:4g:253:LEU:HD11	12:4g:316:LEU:HD21	1.74	0.68
12:5g:284:LEU:HD22	12:5g:362:LYS:HD3	1.76	0.68
47:6B:212:LEU:HD22	12:Bg:191:GLN:HE22	1.57	0.68
51:6N:2315:ASP:O	51:6N:2319:THR:HG23	1.93	0.68
12:6a:20:PHE:HA	12:6a:230:SER:OG	1.93	0.68
12:9e:86:ARG:NH2	12:Ae:282:ARG:HB2	2.08	0.68
12:9g:174:LYS:HG3	12:9g:175:VAL:HG23	1.75	0.68
12:Aa:70:PRO:HB2	13:Ab:1:MET:HE2	1.75	0.68
1:0H:91:SER:HA	1:0H:99:TYR:CE2	2.28	0.68
1:0A:51:LEU:HD21	1:0A:87:GLN:HE22	1.57	0.68
1:0A:167:GLY:O	1:0A:169:VAL:N	2.27	0.68
1:0F:206:VAL:HG21	1:0F:243:LEU:HD22	1.75	0.68
1:0G:206:VAL:HG21	1:0G:243:LEU:HD22	1.76	0.68
1:0L:85:LEU:HD11	1:0L:107:LEU:HD23	1.76	0.68
1:0R:214:LEU:HD22	1:0R:229:VAL:HG12	1.75	0.68
1:0Y:257:LEU:HD21	1:0Y:294:GLY:HA2	1.76	0.68
3:1H:991:ILE:HG12	47:6A:399:LYS:CB	2.23	0.68
10:1R:172:VAL:HG21	13:Ab:396:ASP:OD1	1.92	0.68
35:4C:841:PHE:HE2	35:4C:843:MET:HA	1.59	0.68
37:4E:577:LEU:CA	43:5L:42:TYR:CD1	2.61	0.68
37:4G:1093:VAL:H	38:4L:33:LYS:HE3	1.58	0.68
37:4G:1335:MET:CA	38:4L:28:VAL:HG13	2.22	0.68
37:4H:429:TYR:HB2	37:4H:854:TYR:CD1	2.28	0.68
37:4H:665:GLY:HA2	37:4H:679:ASP:H	1.59	0.68
37:4H:1101:LEU:HD22	38:4M:39:HIS:ND1	2.08	0.68
37:4H:1136:ARG:HG2	38:4M:32:GLU:OE2	1.92	0.68
37:4H:1138:VAL:O	37:4H:1143:LEU:O	2.12	0.68
41:5A:169:LEU:CB	43:5L:164:GLU:CB	2.70	0.68
44:5U:108:GLU:O	44:5U:112:VAL:HG23	1.93	0.68
47:6A:770:PHE:HE2	47:6A:780:LEU:HD21	1.58	0.68
48:6F:737:ARG:HB3	49:6H:14:LYS:HZ1	1.59	0.68
12:7c:317:PHE:HB3	12:7c:321:MET:HE1	1.75	0.68
12:7g:317:PHE:HB3	12:7g:321:MET:HE1	1.75	0.68
12:De:33:THR:O	12:De:58:ARG:NH1	2.26	0.68
1:0J:131:VAL:HA	1:0J:134:LEU:HD12	1.75	0.68
1:0W:206:VAL:HG21	1:0W:243:LEU:HD22	1.76	0.68
1:0I:286:ALA:HB1	1:0I:320:ILE:HG22	1.76	0.68
1:0A:368:PRO:HA	1:0A:410:LYS:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0N:142:LYS:HG3	1:0N:183:LEU:HD11	1.74	0.68
1:0S:206:VAL:HG21	1:0S:243:LEU:HD22	1.75	0.68
1:0U:156:ASN:HB3	1:0U:159:LEU:HG	1.76	0.68
1:0U:342:SER:O	1:0U:346:GLU:HG2	1.94	0.68
1:0V:109:ALA:O	1:0V:113:HIS:ND1	2.26	0.68
1:1C:180:GLU:HB3	1:1C:183:LEU:HG	1.76	0.68
6:1N:1531:VAL:HG13	6:1N:1543:ALA:HB1	1.75	0.68
24:2V:198:PHE:CZ	12:Ce:194:GLU:HG3	2.29	0.68
28:3C:554:ARG:NH1	12:3g:404:ASP:H	1.91	0.68
30:3F:528:ASP:HB2	30:3F:531:GLU:HG3	1.74	0.68
30:3G:531:GLU:C	30:3G:533:GLY:H	2.01	0.68
34:3N:38:HIS:CE1	34:3N:452:HIS:HE1	2.11	0.68
34:3R:93:VAL:O	34:3R:97:LEU:HG	1.93	0.68
12:3c:253:LEU:HD11	12:3c:316:LEU:HD21	1.75	0.68
12:3c:391:ARG:HG3	13:3d:346:TRP:HB3	1.75	0.68
37:4E:586:PHE:HD2	43:5L:10:LEU:HD22	1.58	0.68
37:4E:1313:VAL:CG2	38:4O:17:LEU:HD11	2.22	0.68
37:4F:665:GLY:HA2	37:4F:679:ASP:H	1.59	0.68
37:4F:969:LEU:HG	37:4F:970:SER:N	2.08	0.68
37:4F:972:PHE:HZ	37:4F:1072:ALA:HB3	1.59	0.68
37:4G:1162:VAL:H	37:4G:1299:ARG:HH12	1.40	0.68
38:4L:66:GLN:C	38:4L:69:CYS:HB3	2.18	0.68
38:4N:46:ALA:HA	38:4N:49:ILE:HD13	1.75	0.68
39:4R:205:ALA:O	39:4R:209:GLN:HG3	1.94	0.68
40:4V:281:GLN:HG2	40:4V:823:PRO:HB3	1.76	0.68
41:5A:141:ASN:O	43:5L:166:ALA:O	2.11	0.68
42:5H:82:LEU:HD12	42:5H:85:CYS:SG	2.34	0.68
42:5H:137:TYR:CB	43:5L:47:LYS:O	2.41	0.68
43:5I:58:THR:HG22	43:5I:130:TRP:HH2	1.59	0.68
43:5J:58:THR:HG22	43:5J:130:TRP:HH2	1.59	0.68
12:5e:86:ARG:HD3	12:6e:281:TYR:HD1	1.57	0.68
47:6A:975:GLU:O	47:6A:978:THR:OG1	2.10	0.68
51:6N:1936:GLU:OE1	51:6N:1976:ASN:ND2	2.26	0.68
13:8f:100:ALA:O	12:8g:255:VAL:HG11	1.92	0.68
12:Ca:134:GLN:HA	12:Ca:165:LEU:O	1.94	0.68
12:Cc:253:LEU:HD11	12:Cc:316:LEU:HD21	1.75	0.68
1:0J:117:LEU:O	1:0J:121:VAL:HG23	1.94	0.68
1:0W:342:SER:O	1:0W:346:GLU:HG2	1.93	0.68
1:0N:248:VAL:HG11	1:0N:285:LEU:HG	1.76	0.68
1:0Q:108:ARG:CD	1:0Q:147:TRP:HB3	2.24	0.68
1:0U:70:ASN:HA	1:0U:113:HIS:HE2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1S:365:VAL:H	12:Bg:337:ASN:ND2	1.91	0.68
10:1S:423:PRO:HB3	12:Be:216:LYS:HD3	1.74	0.68
12:1g:20:PHE:HA	12:1g:230:SER:HB2	1.76	0.68
24:2V:152:GLU:HA	13:Df:176:GLN:NE2	2.09	0.68
12:2g:253:LEU:HD11	12:2g:316:LEU:HD21	1.75	0.68
32:3J:72:ARG:O	32:3J:101:PRO:HB3	1.94	0.68
34:3Z:97:LEU:HD21	34:3Z:394:GLU:HG3	1.75	0.68
35:4C:843:MET:SD	35:4C:849:ILE:HG12	2.34	0.68
37:4E:543:ASN:HA	42:5H:112:THR:HG1	1.59	0.68
37:4E:1820:ASP:OD1	37:4E:1821:PRO:HD3	1.92	0.68
37:4F:958:LEU:CD2	37:4F:970:SER:HB2	2.16	0.68
37:4F:1082:LEU:C	38:4N:38:VAL:CG2	2.67	0.68
37:4G:933:ARG:HH21	38:4I:71:GLU:CG	2.06	0.68
37:4G:1074:GLN:OE1	38:4L:42:ILE:N	2.27	0.68
37:4G:1136:ARG:HG2	37:4G:1146:SER:CA	2.19	0.68
37:4G:1335:MET:CG	38:4L:32:GLU:CB	2.61	0.68
37:4H:1138:VAL:O	37:4H:1143:LEU:C	2.37	0.68
37:4H:1323:ILE:HG21	38:4M:26:GLU:CG	2.24	0.68
38:4J:66:GLN:C	38:4J:69:CYS:HB3	2.18	0.68
39:4Q:64:GLN:HA	44:5P:113:MET:HE1	1.74	0.68
40:4V:47:PRO:HG2	40:4V:740:TYR:HB2	1.76	0.68
43:5K:15:LEU:HD13	43:5K:69:ASP:CG	2.19	0.68
47:6B:770:PHE:HE2	47:6B:780:LEU:HD21	1.58	0.68
48:6F:702:LEU:HD22	48:6F:827:LEU:HD21	1.75	0.68
48:6F:800:LEU:HG	48:6F:810:LEU:HB3	1.76	0.68
12:8c:317:PHE:HB3	12:8c:321:MET:HE1	1.76	0.68
12:9g:253:LEU:HD11	12:9g:316:LEU:HD21	1.75	0.68
12:Be:222:PHE:CE2	13:Bf:248:LEU:HG	2.28	0.68
12:Dc:177:ASP:N	12:Dc:181:GLU:OE2	2.27	0.68
1:0H:143:GLU:HB2	1:0H:183:LEU:HD23	1.76	0.68
1:0J:286:ALA:HB1	1:0J:320:ILE:HG12	1.75	0.68
1:0M:275:VAL:HG11	1:0M:298:LEU:HD11	1.77	0.68
1:1C:85:LEU:HA	1:1C:88:LEU:HD12	1.73	0.68
2:1D:135:VAL:HG12	2:1D:175:SER:HB2	1.76	0.68
3:1H:1005:PRO:CD	47:6A:406:ARG:HH21	2.07	0.68
6:1N:1093:VAL:HG23	8:1P:716:LEU:HD21	1.75	0.68
10:1R:295:MET:HE3	31:3H:136:LEU:HG	1.75	0.68
12:2c:317:PHE:HB3	12:2c:321:MET:HE1	1.75	0.68
12:2e:99:ASN:HD22	13:2f:258:ASN:HD21	1.40	0.68
34:3M:64:HIS:CE1	34:3M:68:LEU:HD21	2.29	0.68
34:3M:75:GLN:HE21	34:3M:419:LEU:HD22	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3O:250:ARG:O	34:3O:254:MET:HG2	1.93	0.68
37:4G:539:GLN:NE2	37:4G:543:ASN:HD21	1.92	0.68
37:4G:1331:TRP:CZ3	37:4G:1345:PRO:CA	2.72	0.68
37:4G:1350:ILE:HG21	38:4L:31:ALA:HB2	1.76	0.68
37:4H:897:VAL:HG21	37:4H:906:THR:HG22	1.76	0.68
37:4H:1323:ILE:N	38:4M:25:PRO:HB2	2.08	0.68
38:4I:30:ALA:O	38:4I:34:ALA:N	2.27	0.68
38:4I:78:GLU:O	38:4I:82:TYR:CG	2.46	0.68
38:4K:66:GLN:C	38:4K:69:CYS:HB3	2.18	0.68
42:5H:127:ALA:C	42:5H:130:ALA:HB3	2.19	0.68
42:5H:143:VAL:CG2	43:5L:147:THR:O	2.40	0.68
43:5J:15:LEU:HD13	43:5J:69:ASP:CG	2.19	0.68
43:5K:147:THR:OG1	43:5K:148:ASN:N	2.22	0.68
44:5R:105:SER:O	44:5R:108:GLU:HG2	1.93	0.68
48:6E:800:LEU:HG	48:6E:810:LEU:HB3	1.76	0.68
12:6g:341:PHE:HB3	12:6g:348:ASN:HD22	1.59	0.68
12:Aa:178:THR:HG22	13:Ab:352:LYS:HZ3	1.58	0.68
12:Ac:87:PRO:HD3	12:Bc:281:TYR:CG	2.29	0.68
12:Ag:101:TRP:CD1	12:Ag:145:SER:HG	2.11	0.68
12:Ba:73:MET:HE3	12:Ba:92:PHE:HB3	1.75	0.68
12:Ba:175:VAL:HG21	13:Bb:332:VAL:HG13	1.76	0.68
12:Ba:179:VAL:HG23	13:Bb:352:LYS:HB2	1.75	0.68
12:Bc:253:LEU:HD11	12:Bc:316:LEU:HD21	1.75	0.68
12:Cc:317:PHE:HB3	12:Cc:321:MET:HE1	1.76	0.68
12:De:99:ASN:HA	12:De:142:GLY:H	1.59	0.68
1:0N:368:PRO:HA	1:0N:410:LYS:HB3	1.75	0.67
1:0O:371:ALA:HB1	1:0O:407:VAL:HG13	1.75	0.67
1:0X:167:GLY:O	1:0X:169:VAL:N	2.27	0.67
1:1B:12:ARG:NH1	1:1C:16:GLU:OE1	2.26	0.67
1:1C:218:VAL:HG12	1:1C:255:LYS:HB3	1.74	0.67
3:1H:851:SER:HB2	3:1H:953:ILE:HG12	1.75	0.67
4:1K:26:GLN:NE2	4:1K:85:PRO:HD2	2.09	0.67
10:1R:430:HIS:CE1	12:Aa:77:ARG:HD3	2.29	0.67
12:2c:171:PRO:HB3	12:2c:181:GLU:HG2	1.75	0.67
34:3N:55:GLN:HB3	34:3N:215:THR:HG21	1.76	0.67
12:3e:134:GLN:HA	12:3e:165:LEU:O	1.94	0.67
37:4E:576:ALA:HB3	43:5L:30:ARG:HG2	1.75	0.67
37:4E:581:LEU:HD12	43:5L:33:LEU:CB	2.21	0.67
37:4E:587:ALA:C	43:5L:18:ILE:HA	2.18	0.67
37:4F:1341:ILE:HG23	37:4F:1349:THR:O	1.94	0.67
37:4G:1074:GLN:HA	38:4L:41:LYS:HZ1	1.49	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1075:VAL:N	38:4L:38:VAL:CG2	2.56	0.67
37:4H:1333:VAL:C	37:4H:1334:GLU:OE1	2.37	0.67
38:4J:35:ALA:O	38:4J:38:VAL:N	2.27	0.67
38:4K:24:THR:HG23	38:4K:25:PRO:HD3	1.75	0.67
40:4T:281:GLN:HG2	40:4T:823:PRO:HB3	1.76	0.67
12:4c:113:ILE:HA	12:4c:116:VAL:HG22	1.76	0.67
41:5A:169:LEU:CB	43:5L:164:GLU:HG2	2.23	0.67
42:5H:49:ILE:HG21	42:5H:49:ILE:HD13	1.71	0.67
43:5K:27:LEU:C	43:5K:31:ASP:HB2	2.20	0.67
49:6G:46:GLU:OE1	49:6G:46:GLU:N	2.22	0.67
12:7e:86:ARG:CD	12:8e:281:TYR:HD1	2.04	0.67
1:0J:12:ARG:NH1	1:0K:16:GLU:OE1	2.26	0.67
1:0K:85:LEU:HA	1:0K:88:LEU:HD12	1.73	0.67
1:0B:128:ASP:O	1:0B:132:THR:HG23	1.93	0.67
1:0G:131:VAL:HG13	1:0G:171:LEU:HD11	1.74	0.67
1:0T:108:ARG:HD3	1:0T:147:TRP:HB3	1.75	0.67
1:1B:368:PRO:HA	1:1B:410:LYS:HB3	1.75	0.67
2:1E:46:LEU:HD12	2:1E:56:LEU:HD12	1.76	0.67
3:1H:197:SER:CA	47:6A:290:GLY:N	2.57	0.67
4:1J:26:GLN:NE2	4:1J:85:PRO:HD2	2.09	0.67
6:1N:1463:ALA:HB1	6:1N:1472:SER:HB2	1.75	0.67
10:1R:55:ASP:OD1	13:Ad:339:ARG:NH1	2.26	0.67
31:3I:429:GLN:HG2	31:3I:432:ARG:HH21	1.59	0.67
32:3J:118:TYR:HE1	32:3J:139:TYR:HD2	1.42	0.67
33:3L:38:LEU:HD22	33:3L:63:LEU:HD21	1.76	0.67
34:3O:305:CYS:SG	34:3O:426:LEU:HG	2.34	0.67
34:3U:90:GLU:O	34:3U:94:THR:HG23	1.94	0.67
34:3U:383:ARG:O	34:3U:387:VAL:HG23	1.94	0.67
34:3V:204:MET:SD	34:3Z:52:GLN:NE2	2.67	0.67
34:3X:97:LEU:HD21	34:3X:394:GLU:HG3	1.76	0.67
35:4C:826:ARG:HG2	35:4C:840:GLU:OE2	1.93	0.67
37:4E:581:LEU:CB	43:5L:34:ALA:HB3	2.23	0.67
37:4E:591:PRO:N	43:5L:20:HIS:HB3	2.09	0.67
37:4F:1334:GLU:N	37:4F:1334:GLU:HA	2.02	0.67
38:4I:29:LYS:HB3	38:4I:32:GLU:HG2	1.76	0.67
38:4L:24:THR:HG23	38:4L:25:PRO:HD3	1.75	0.67
39:4Q:205:ALA:O	39:4Q:209:GLN:HG3	1.94	0.67
39:4S:205:ALA:O	39:4S:209:GLN:HG3	1.94	0.67
12:4a:1:MET:HG3	12:4a:2:ARG:HG3	1.74	0.67
42:5H:96:ALA:HA	42:5H:99:LYS:HB2	1.76	0.67
43:5I:27:LEU:C	43:5I:31:ASP:HB2	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5J:27:LEU:C	43:5J:31:ASP:HB2	2.20	0.67
12:5a:278:SER:CA	12:5a:281:TYR:HB2	2.23	0.67
47:6B:439:TYR:CE1	47:6B:840:LEU:HB3	2.28	0.67
48:6E:800:LEU:HD13	49:6I:17:GLU:OE2	1.94	0.67
12:7e:404:ASP:HB3	12:7e:406:MET:HG3	1.76	0.67
12:9e:20:PHE:HA	12:9e:230:SER:HB2	1.75	0.67
12:Cg:253:LEU:HD11	12:Cg:316:LEU:HD21	1.75	0.67
12:Da:222:PHE:CE2	13:Db:248:LEU:HG	2.29	0.67
12:De:208:TYR:OH	13:Df:325:PRO:HB2	1.95	0.67
1:0J:92:LEU:HB2	1:0J:129:SER:HB2	1.76	0.67
1:0J:262:PHE:HE2	1:0J:264:ASP:HB3	1.57	0.67
1:0B:262:PHE:CE2	1:0B:264:ASP:HB3	2.30	0.67
1:0N:65:LEU:HD22	1:0N:84:ILE:HG21	1.76	0.67
1:0R:368:PRO:HA	1:0R:410:LYS:HB3	1.76	0.67
1:0S:342:SER:O	1:0S:346:GLU:HG2	1.94	0.67
1:0U:33:ASN:O	1:0U:37:LEU:HG	1.93	0.67
1:0X:368:PRO:HA	1:0X:410:LYS:HB3	1.76	0.67
1:0Z:142:LYS:HD2	1:0Z:183:LEU:HD21	1.75	0.67
5:1L:600:ARG:HH22	5:1L:602:VAL:HG22	1.60	0.67
5:1M:600:ARG:HH22	5:1M:602:VAL:HG22	1.60	0.67
10:1R:172:VAL:HG11	13:Ab:396:ASP:OD1	1.92	0.67
14:2F:165:LEU:O	12:Aa:361:LEU:HD21	1.94	0.67
17:2K:40:UNK:O	13:Cf:229:ARG:NH2	2.27	0.67
24:2V:139:VAL:O	13:Df:214:ARG:NH2	2.28	0.67
30:3F:416:ARG:HB2	30:3F:417:MET:HE2	1.76	0.67
32:3J:118:TYR:CD1	32:3J:139:TYR:HB3	2.29	0.67
34:3O:373:ALA:HB3	34:3Y:360:VAL:CG2	2.24	0.67
34:3O:455:THR:O	34:3O:459:ILE:HG12	1.95	0.67
34:3O:500:TYR:HA	34:3O:503:ASN:HD22	1.59	0.67
34:3P:86:GLN:OE1	34:3P:408:ARG:NH2	2.28	0.67
13:3h:431:ASP:CG	39:4Q:167:HIS:CD2	2.72	0.67
35:4C:396:THR:OG1	35:4C:419:LYS:O	2.10	0.67
37:4E:586:PHE:CD1	43:5L:10:LEU:HD13	2.29	0.67
37:4G:1185:LEU:HD11	37:4G:1193:ARG:HB3	1.74	0.67
37:4H:1442:ASP:OD2	37:4H:1514:PRO:HB3	1.94	0.67
38:4I:46:ALA:HA	38:4I:49:ILE:HD13	1.75	0.67
38:4J:46:ALA:HA	38:4J:49:ILE:HD13	1.75	0.67
38:4N:57:VAL:O	38:4N:60:VAL:N	2.23	0.67
40:4T:47:PRO:HG2	40:4T:740:TYR:HB2	1.76	0.67
40:4U:281:GLN:HG2	40:4U:823:PRO:HB3	1.76	0.67
42:5H:139:LEU:CD2	43:5L:146:TYR:N	2.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:143:VAL:CG1	42:5H:144:PHE:CD1	2.77	0.67
43:5K:58:THR:HG22	43:5K:130:TRP:HH2	1.59	0.67
13:5b:401:LYS:HZ1	12:5c:429:SER:C	2.01	0.67
13:5h:269:LEU:HB2	13:5h:379:SER:HB3	1.77	0.67
47:6A:439:TYR:CE1	47:6A:840:LEU:HB3	2.28	0.67
12:7g:11:GLN:HE22	13:7h:249:ASN:H	1.42	0.67
12:9c:317:PHE:HB3	12:9c:321:MET:HE1	1.76	0.67
12:Aa:179:VAL:HG23	13:Ab:352:LYS:HB2	1.75	0.67
12:Ag:237:THR:HG23	12:Ag:240:LEU:HD12	1.77	0.67
44:5P:105:SER:O	44:5P:108:GLU:HG2	1.93	0.67
1:0M:342:SER:O	1:0M:346:GLU:HG2	1.95	0.67
1:0Y:262:PHE:CE2	1:0Y:264:ASP:HB3	2.30	0.67
1:1A:105:PHE:HA	1:1A:108:ARG:HE	1.59	0.67
2:1D:64:THR:HA	2:1D:88:LEU:HD13	1.75	0.67
2:1D:189:LEU:HD13	2:1D:227:VAL:HG12	1.76	0.67
3:1H:848:ARG:CA	47:6A:382:SER:HB3	2.24	0.67
3:1I:235:MET:HB3	3:1I:240:VAL:HG11	1.76	0.67
12:1g:417:ASP:O	12:1g:421:GLU:HG2	1.93	0.67
30:3G:755:ARG:HH21	12:6a:407:GLU:HG3	1.58	0.67
34:3V:209:THR:HG22	34:3Z:292:ALA:HB1	1.76	0.67
34:3X:292:ALA:HB1	34:4A:209:THR:HG22	1.76	0.67
34:3Z:503:ASN:HA	34:3Z:506:GLU:OE1	1.93	0.67
37:4F:1083:ILE:HD12	38:4N:34:ALA:CB	2.23	0.67
37:4F:1322:ARG:O	38:4N:26:GLU:N	2.26	0.67
37:4F:1442:ASP:OD2	37:4F:1514:PRO:HB3	1.94	0.67
37:4G:665:GLY:HA2	37:4G:679:ASP:H	1.60	0.67
37:4G:1093:VAL:CG1	37:4G:1094:ALA:CA	2.65	0.67
37:4G:1315:VAL:O	38:4L:26:GLU:OE1	2.12	0.67
37:4G:1335:MET:HA	38:4L:28:VAL:HA	1.70	0.67
37:4G:1709:LEU:HD22	38:4L:28:VAL:HG21	1.76	0.67
37:4H:1323:ILE:CG1	38:4M:25:PRO:HB2	2.22	0.67
40:4U:64:PRO:HG2	44:5U:30:THR:HG21	1.76	0.67
43:5I:15:LEU:HD13	43:5I:69:ASP:CG	2.19	0.67
43:5L:27:LEU:C	43:5L:31:ASP:HB2	2.20	0.67
43:5L:30:ARG:NH1	43:5L:53:ASP:OD1	2.28	0.67
13:5f:269:LEU:HB2	13:5f:379:SER:HB3	1.77	0.67
47:6B:409:ARG:NE	3:6D:1006:ASP:CG	2.50	0.67
49:6H:46:GLU:OE1	49:6H:46:GLU:N	2.22	0.67
12:8a:16:ILE:HD11	12:8a:229:ILE:HB	1.75	0.67
12:9a:35:THR:OG1	12:9a:37:HIS:NE2	2.27	0.67
13:Ah:128:ASN:HD21	13:Bh:285:GLN:HG3	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Cg:317:PHE:HB3	12:Cg:321:MET:HE1	1.76	0.67
1:0B:287:GLN:NE2	1:0B:327:LEU:HG	2.09	0.67
1:1A:59:GLN:HE22	5:1L:597:LYS:HB3	1.60	0.67
2:1D:62:LEU:HD21	2:1F:25:PHE:HE2	1.58	0.67
10:1S:426:TRP:HE1	12:Ae:77:ARG:HH22	1.42	0.67
10:1S:444:PRO:HD2	12:Be:227:HIS:CD2	2.29	0.67
14:2F:167:TRP:HH2	12:Aa:282:ARG:HB3	1.60	0.67
13:2b:96:LYS:HA	12:2c:1:MET:HE3	1.74	0.67
13:2f:269:LEU:HB2	13:2f:379:SER:HB3	1.77	0.67
30:3F:328:ILE:HD13	13:7f:385:GLY:O	1.95	0.67
30:3G:547:LEU:HD13	13:7h:156:ARG:HD2	1.76	0.67
33:3L:91:PHE:CD2	13:6d:159:VAL:HG21	2.30	0.67
37:4E:574:LEU:HA	43:5L:30:ARG:NE	2.09	0.67
37:4E:588:PRO:CB	43:5L:32:LEU:HD23	2.22	0.67
37:4F:537:LEU:HD11	38:4K:54:GLU:HG3	1.76	0.67
37:4G:854:TYR:CD1	38:4L:82:TYR:CD2	2.83	0.67
37:4G:1082:LEU:CD1	38:4L:36:VAL:CA	2.69	0.67
37:4G:1136:ARG:CB	37:4G:1145:VAL:O	2.41	0.67
38:4I:75:ASN:ND2	38:4I:78:GLU:OE1	2.28	0.67
38:4K:35:ALA:O	38:4K:38:VAL:N	2.27	0.67
38:4K:40:LYS:HZ2	38:4K:44:LEU:HB2	1.60	0.67
38:4M:35:ALA:O	38:4M:38:VAL:N	2.27	0.67
38:4M:66:GLN:C	38:4M:69:CYS:HB3	2.18	0.67
38:4M:75:ASN:ND2	38:4M:78:GLU:OE1	2.28	0.67
39:4S:41:GLN:NE2	44:5U:113:MET:O	2.27	0.67
41:4Y:33:TYR:HA	41:4Y:80:VAL:O	1.94	0.67
12:4c:417:ASP:O	12:4c:421:GLU:HG2	1.95	0.67
42:5H:94:CYS:C	43:5L:44:THR:C	2.61	0.67
43:5K:40:ASN:OD1	43:5K:41:ASP:N	2.28	0.67
43:5L:58:THR:HG22	43:5L:130:TRP:HH2	1.59	0.67
44:5Q:105:SER:O	44:5Q:108:GLU:HG2	1.93	0.67
47:6B:347:ARG:HE	3:6D:262:GLU:CD	2.02	0.67
12:6e:20:PHE:HA	12:6e:230:SER:OG	1.93	0.67
13:7d:177:VAL:HB	12:7e:331:LEU:HD22	1.76	0.67
13:7f:269:LEU:HB2	13:7f:379:SER:HB3	1.77	0.67
13:7h:269:LEU:HB2	13:7h:379:SER:HB3	1.77	0.67
12:8a:249:ASP:O	12:8a:253:LEU:HD12	1.94	0.67
13:Ab:269:LEU:HB2	13:Ab:379:SER:HB3	1.77	0.67
12:Ac:253:LEU:HD11	12:Ac:316:LEU:HD21	1.76	0.67
1:0A:220:ASN:O	1:0A:226:LYS:NZ	2.27	0.67
1:0D:342:SER:O	1:0D:346:GLU:HG2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0E:282:THR:HB	1:0E:285:LEU:HB2	1.76	0.67
1:0F:55:PRO:CB	1:0F:96:ASN:HD21	2.06	0.67
1:0F:311:LEU:HD21	1:0F:352:LEU:HA	1.77	0.67
1:0F:383:LEU:HB3	1:0F:400:CYS:SG	2.35	0.67
1:0M:55:PRO:CB	1:0M:96:ASN:HD21	1.98	0.67
1:0P:143:GLU:HB2	1:0P:183:LEU:HD23	1.77	0.67
1:0Z:373:ALA:O	1:0Z:377:THR:HG23	1.95	0.67
1:1A:342:SER:O	1:1A:346:GLU:HG2	1.95	0.67
1:1B:322:ALA:HB2	1:1B:362:GLN:HG2	1.77	0.67
1:1B:332:ILE:HD11	1:1B:363:ILE:HG21	1.75	0.67
10:1R:175:ARG:HH22	13:Ab:423:GLU:HG2	1.58	0.67
10:1R:334:PRO:HG2	13:Ab:409:VAL:CG2	2.14	0.67
12:1e:208:TYR:OH	13:1f:325:PRO:HB2	1.95	0.67
14:2G:103:THR:HA	12:Ce:280:GLN:HE22	1.58	0.67
22:2P:18:UNK:C	12:6g:336:LYS:HZ3	2.07	0.67
12:2a:163:MET:HE3	12:2a:164:MET:N	2.05	0.67
13:2b:269:LEU:HB2	13:2b:379:SER:HB3	1.77	0.67
34:3X:52:GLN:NE2	34:4A:204:MET:SD	2.67	0.67
12:3e:73:MET:HA	12:3e:76:VAL:HG12	1.77	0.67
37:4E:574:LEU:HD11	42:5H:98:PHE:CE2	2.29	0.67
37:4F:540:VAL:HG13	38:4N:69:CYS:SG	2.35	0.67
37:4F:1098:ASP:HB2	37:4F:1101:LEU:HB2	1.75	0.67
37:4G:585:VAL:HG21	43:5I:59:LEU:HD12	1.76	0.67
37:4G:935:ARG:NH2	37:4G:960:LEU:HD23	2.09	0.67
37:4G:1075:VAL:H	38:4L:38:VAL:CG2	2.07	0.67
37:4G:1335:MET:N	38:4L:28:VAL:CA	2.53	0.67
37:4H:1088:ASP:O	37:4H:1090:GLN:N	2.27	0.67
40:4U:47:PRO:HG2	40:4U:740:TYR:HB2	1.76	0.67
43:5I:30:ARG:NH1	43:5I:53:ASP:OD1	2.28	0.67
13:5d:269:LEU:HB2	13:5d:379:SER:HB3	1.77	0.67
47:6A:1908:GLU:HA	47:6A:1911:VAL:HG12	1.77	0.67
47:6B:1908:GLU:HA	47:6B:1911:VAL:HG12	1.77	0.67
49:6G:117:ILE:HG23	49:6G:136:MET:HE2	1.77	0.67
12:7a:128:ASP:OD1	12:7a:129:CYS:N	2.27	0.67
12:9c:253:LEU:HD11	12:9c:316:LEU:HD21	1.76	0.67
13:Af:269:LEU:HB2	13:Af:379:SER:HB3	1.77	0.67
12:De:73:MET:HA	12:De:76:VAL:HG12	1.77	0.67
1:0A:344:LEU:HB3	1:0A:382:THR:HG21	1.76	0.67
1:0R:182:SER:O	1:0R:186:ILE:HG12	1.94	0.67
1:0X:252:ILE:HG22	1:0X:256:ILE:HG12	1.77	0.67
2:1D:46:LEU:HD12	2:1D:56:LEU:HD12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1S:393:ALA:O	13:Af:123:ARG:NE	2.27	0.67
12:2g:115:SER:HA	12:2g:118:ASP:OD2	1.95	0.67
12:2g:178:THR:HG22	13:2h:352:LYS:NZ	2.10	0.67
12:2g:179:VAL:HG23	13:2h:352:LYS:HB2	1.75	0.67
13:2h:269:LEU:HB2	13:2h:379:SER:HB3	1.77	0.67
34:3T:55:GLN:HB3	34:3T:215:THR:HG21	1.76	0.67
34:4B:366:VAL:HG11	37:4H:908:ALA:HB2	1.77	0.67
37:4E:587:ALA:HA	43:5L:32:LEU:HB3	1.76	0.67
37:4E:1155:VAL:HG21	37:4E:1184:TRP:CH2	2.29	0.67
37:4F:897:VAL:HG21	37:4F:906:THR:HG22	1.77	0.67
37:4G:1442:ASP:OD2	37:4G:1514:PRO:HB3	1.95	0.67
38:4J:40:LYS:HZ2	38:4J:44:LEU:HB2	1.60	0.67
43:5I:40:ASN:OD1	43:5I:41:ASP:N	2.28	0.67
43:5J:30:ARG:NH1	43:5J:53:ASP:OD1	2.28	0.67
43:5J:40:ASN:OD1	43:5J:41:ASP:N	2.28	0.67
43:5L:40:ASN:OD1	43:5L:41:ASP:N	2.28	0.67
13:5b:100:ALA:O	12:5c:255:VAL:HG11	1.94	0.67
13:5b:269:LEU:HB2	13:5b:379:SER:HB3	1.77	0.67
13:5d:238:LEU:HD21	13:5d:378:ILE:HD11	1.77	0.67
13:5f:238:LEU:HD21	13:5f:378:ILE:HD11	1.77	0.67
48:6E:131:ARG:HH21	49:6G:279:THR:HG21	1.58	0.67
48:6F:987:MET:HG2	48:6F:995:VAL:HG11	1.76	0.67
12:6c:417:ASP:O	12:6c:421:GLU:HG2	1.95	0.67
12:6g:253:LEU:HD11	12:6g:316:LEU:HD21	1.75	0.67
12:8a:131:GLN:HE22	12:8a:163:MET:HG2	1.59	0.67
13:9d:238:LEU:HD21	13:9d:378:ILE:HD11	1.77	0.67
13:Ah:269:LEU:HB2	13:Ah:379:SER:HB3	1.77	0.67
13:Bb:238:LEU:HD21	13:Bb:378:ILE:HD11	1.77	0.67
13:Bd:238:LEU:HD21	13:Bd:378:ILE:HD11	1.77	0.67
12:Bg:55:THR:HG23	12:Cg:282:ARG:O	1.95	0.67
1:0B:282:THR:OG1	1:0B:285:LEU:HG	1.94	0.67
1:0R:206:VAL:HG21	1:0R:243:LEU:HD22	1.77	0.67
1:0T:218:VAL:HB	1:0T:255:LYS:HD2	1.77	0.67
1:1C:34:ILE:HA	1:1C:37:LEU:HD12	1.77	0.67
2:1E:22:ASP:O	2:1E:26:THR:HG23	1.95	0.67
3:1H:806:ASP:OD2	47:6A:380:ARG:NH1	2.28	0.67
10:1S:170:PRO:O	13:Af:393:HIS:NE2	2.28	0.67
12:2a:145:SER:O	12:2a:149:THR:HG23	1.94	0.67
29:3E:1145:THR:HG22	13:5f:262:TYR:CZ	2.30	0.67
33:3L:86:LEU:HG	33:3L:115:PHE:CE2	2.29	0.67
34:3M:472:ASP:HA	34:3M:475:MET:HE3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3T:38:HIS:CE1	34:3T:452:HIS:HE1	2.12	0.67
34:3W:331:ALA:HA	34:3W:334:LEU:HD12	1.77	0.67
35:4C:455:TRP:CE3	35:4C:470:ASN:HB3	2.30	0.67
35:4C:568:ARG:NH2	35:4C:572:GLU:O	2.27	0.67
37:4E:527:VAL:HA	37:4E:531:LEU:HD23	1.77	0.67
37:4F:1083:ILE:CG2	37:4F:1083:ILE:HG13	2.25	0.67
37:4G:1075:VAL:CA	38:4L:38:VAL:HG21	2.25	0.67
37:4H:563:GLU:HB3	42:5F:103:LEU:HD11	1.76	0.67
37:4H:972:PHE:HE1	38:4M:41:LYS:CD	2.00	0.67
37:4H:1138:VAL:N	37:4H:1139:THR:HG23	2.10	0.67
38:4J:78:GLU:O	38:4J:82:TYR:CG	2.46	0.67
38:4L:75:ASN:ND2	38:4L:78:GLU:OE1	2.28	0.67
38:4O:69:CYS:O	38:4O:72:ARG:NH1	2.27	0.67
42:5H:91:TYR:CD1	43:5L:42:TYR:CB	2.78	0.67
42:5H:91:TYR:O	43:5L:41:ASP:O	2.12	0.67
43:5K:30:ARG:NH1	43:5K:53:ASP:OD1	2.28	0.67
12:5a:134:GLN:HA	12:5a:165:LEU:O	1.94	0.67
47:6A:1014:GLU:HA	47:6A:1017:LYS:HG2	1.75	0.67
47:6A:1211:PRO:HB2	51:6M:2445:ALA:HB1	1.77	0.67
48:6F:105:LEU:O	48:6F:107:GLY:N	2.27	0.67
12:6a:166:THR:HG21	12:6a:192:LEU:HD11	1.77	0.67
13:6f:401:LYS:NZ	12:6g:429:SER:O	2.19	0.67
13:7b:269:LEU:HB2	13:7b:379:SER:HB3	1.77	0.67
13:7d:269:LEU:HB2	13:7d:379:SER:HB3	1.77	0.67
12:8a:178:THR:OG1	12:8a:181:GLU:HG3	1.93	0.67
13:9f:238:LEU:HD21	13:9f:378:ILE:HD11	1.77	0.67
13:9h:238:LEU:HD21	13:9h:378:ILE:HD11	1.77	0.67
12:Aa:50:TYR:CE2	12:Aa:241:ARG:HD3	2.30	0.67
13:Ad:269:LEU:HB2	13:Ad:379:SER:HB3	1.77	0.67
12:Bc:20:PHE:HA	12:Bc:230:SER:HB2	1.75	0.67
13:Bf:238:LEU:HD21	13:Bf:378:ILE:HD11	1.77	0.67
13:Bh:238:LEU:HD21	13:Bh:378:ILE:HD11	1.77	0.67
13:Df:269:LEU:HB2	13:Df:379:SER:HB3	1.77	0.67
13:Dh:269:LEU:HB2	13:Dh:379:SER:HB3	1.77	0.67
1:0A:323:PHE:CE2	47:6A:277:PHE:HE1	2.12	0.67
1:0P:27:MET:HE3	1:0P:37:LEU:HD11	1.77	0.67
1:1B:347:GLU:OE1	1:1B:353:LYS:HA	1.95	0.67
2:1D:117:SER:OG	2:1D:158:THR:HG21	1.95	0.67
2:1E:117:SER:OG	2:1E:158:THR:HG21	1.95	0.67
3:1H:916:LEU:HD12	3:1H:917:PRO:HD2	1.77	0.67
3:1I:1059:GLU:O	3:1I:1063:ILE:HG12	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1L:517:ARG:HH11	13:1b:414:GLU:HG2	1.59	0.67
6:1N:1783:GLY:O	8:1P:696:ARG:HG3	1.95	0.67
6:1N:2064:LEU:HD12	6:1N:2160:LEU:HD22	1.75	0.67
6:1N:2493:SER:OG	6:1N:2729:VAL:HG13	1.95	0.67
10:1R:63:GLN:HE22	10:1R:83:THR:HG22	1.60	0.67
12:1a:70:PRO:HB2	13:1b:1:MET:HE2	1.77	0.67
13:1b:222:PRO:HD2	12:1c:324:LYS:HG2	1.76	0.67
24:2T:136:PRO:HB3	13:Ch:113:GLU:HG2	1.77	0.67
13:2d:269:LEU:HB2	13:2d:379:SER:HB3	1.77	0.67
12:2g:417:ASP:O	12:2g:421:GLU:HG2	1.95	0.67
34:3Q:361:LEU:HD11	34:3Q:368:LEU:HD21	1.76	0.67
34:3S:338:LEU:HD21	34:3S:393:ALA:CB	2.24	0.67
12:3g:417:ASP:O	12:3g:421:GLU:HG2	1.95	0.67
34:4A:330:GLU:O	34:4A:334:LEU:HG	1.95	0.67
35:4C:853:VAL:HG11	35:4C:884:VAL:HG11	1.75	0.67
37:4E:875:PRO:HA	37:4E:1471:LEU:HD13	1.75	0.67
37:4F:1082:LEU:CB	38:4N:39:HIS:CD2	2.78	0.67
37:4F:1340:PRO:CA	38:4N:31:ALA:CB	2.73	0.67
37:4G:1076:THR:HG23	38:4L:38:VAL:CG1	2.24	0.67
37:4G:1319:ASP:HB2	38:4L:29:LYS:NZ	2.10	0.67
37:4H:1083:ILE:HA	38:4M:35:ALA:CA	2.25	0.67
37:4H:1092:LEU:N	38:4M:35:ALA:N	2.43	0.67
37:4H:1324:THR:CB	38:4M:24:THR:HG22	2.25	0.67
38:4I:28:VAL:HG21	42:5E:100:GLY:HA3	1.76	0.67
38:4I:35:ALA:O	38:4I:38:VAL:N	2.27	0.67
38:4J:53:LEU:CD2	38:4M:72:ARG:HD2	2.24	0.67
41:4X:33:TYR:HA	41:4X:80:VAL:O	1.94	0.67
42:5H:96:ALA:HB3	43:5L:44:THR:HB	1.76	0.67
43:5J:112:PRO:HB3	44:5T:115:ASN:HB2	1.77	0.67
3:6D:789:LEU:HD11	3:6D:804:VAL:HB	1.76	0.67
51:6M:1240:LYS:NZ	51:6M:1428:LEU:HD21	2.10	0.67
12:6g:417:ASP:O	12:6g:421:GLU:HG2	1.95	0.67
12:7a:134:GLN:HA	12:7a:165:LEU:O	1.95	0.67
13:8b:238:LEU:HD21	13:8b:378:ILE:HD11	1.77	0.67
13:8b:269:LEU:HB2	13:8b:379:SER:HB3	1.77	0.67
13:Ad:238:LEU:HD21	13:Ad:378:ILE:HD11	1.77	0.67
12:Ag:87:PRO:HD3	12:Bg:281:TYR:CD2	2.30	0.67
13:Cb:224:TYR:CZ	12:Cc:323:THR:HG21	2.30	0.67
12:Ce:113:ILE:HA	12:Ce:116:VAL:HG12	1.75	0.67
13:Db:269:LEU:HB2	13:Db:379:SER:HB3	1.77	0.67
13:Dd:269:LEU:HB2	13:Dd:379:SER:HB3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0D:105:PHE:HA	1:0D:108:ARG:HE	1.60	0.67
1:0D:257:LEU:HD21	1:0D:294:GLY:HA2	1.76	0.67
1:0M:156:ASN:HB3	1:0M:159:LEU:HD23	1.76	0.67
1:0U:4:ARG:CZ	13:Dd:196:GLU:OE2	2.43	0.67
2:1D:64:THR:HG22	2:1D:88:LEU:HD22	1.75	0.67
34:3O:370:GLU:HB3	34:3Y:359:ARG:CD	2.24	0.67
34:3S:386:HIS:CE1	34:3S:390:LEU:HD11	2.30	0.67
35:4C:395:LEU:CD1	35:4C:397:LEU:H	2.06	0.67
37:4E:578:ASP:OD2	43:5L:31:ASP:OD1	2.13	0.67
37:4E:580:GLU:N	37:4E:580:GLU:CB	2.54	0.67
37:4F:1136:ARG:HG3	38:4N:33:LYS:HZ3	1.60	0.67
37:4H:910:LEU:HD23	37:4H:915:SER:HB3	1.77	0.67
38:4K:77:VAL:HG21	38:4N:57:VAL:HG22	1.75	0.67
38:4L:46:ALA:HA	38:4L:49:ILE:HD13	1.75	0.67
38:4N:35:ALA:O	38:4N:38:VAL:N	2.27	0.67
12:4e:86:ARG:CD	12:5e:281:TYR:HD1	2.06	0.67
42:5H:139:LEU:CB	43:5L:146:TYR:CG	2.78	0.67
42:5H:143:VAL:CB	43:5L:145:SER:O	2.43	0.67
13:5h:238:LEU:HD21	13:5h:378:ILE:HD11	1.77	0.67
47:6B:1211:PRO:HB2	51:6N:2445:ALA:HB1	1.77	0.67
47:6B:1648:ILE:HD11	47:6B:1769:ARG:HH21	1.60	0.67
49:6H:117:ILE:HG23	49:6H:136:MET:HE2	1.77	0.67
51:6N:1362:ARG:HG2	51:6N:1373:HIS:HA	1.76	0.67
13:6b:223:THR:HA	12:6c:323:THR:HG22	1.75	0.67
12:7a:176:SER:OG	13:7b:349:THR:HB	1.94	0.67
12:7c:177:ASP:N	12:7c:181:GLU:OE2	2.26	0.67
12:7g:253:LEU:HD11	12:7g:316:LEU:HD21	1.76	0.67
13:8d:238:LEU:HD21	13:8d:378:ILE:HD11	1.77	0.67
13:8f:238:LEU:HD21	13:8f:378:ILE:HD11	1.77	0.67
12:8g:417:ASP:O	12:8g:421:GLU:HG2	1.95	0.67
13:9b:238:LEU:HD21	13:9b:378:ILE:HD11	1.77	0.67
12:Ag:253:LEU:HD11	12:Ag:316:LEU:HD21	1.76	0.67
12:Ba:397:TRP:HZ2	13:Bb:260:VAL:HB	1.60	0.67
13:Cd:269:LEU:HB2	13:Cd:379:SER:HB3	1.77	0.67
12:De:222:PHE:CE2	13:Df:248:LEU:HG	2.30	0.67
1:0L:85:LEU:HD21	1:0L:121:VAL:HA	1.77	0.66
1:0M:363:ILE:HG22	1:0M:370:HIS:HB3	1.76	0.66
1:0T:85:LEU:HD11	1:0T:107:LEU:HD23	1.76	0.66
2:1E:62:LEU:HD21	2:1G:25:PHE:HE2	1.58	0.66
3:1H:922:ALA:O	4:1J:250:LEU:HA	1.94	0.66
10:1S:75:LEU:CD2	10:1S:125:LEU:HB3	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1g:117:LEU:HA	12:1g:120:VAL:HG22	1.76	0.66
14:2G:102:ALA:HB3	12:Ce:279:GLN:CD	2.19	0.66
24:2T:152:GLU:HB2	24:2T:157:GLU:CD	2.21	0.66
31:3H:116:VAL:HG22	31:3H:203:ALA:HB1	1.75	0.66
31:3I:112:VAL:O	31:3I:116:VAL:HG23	1.95	0.66
34:3R:280:TRP:HB2	34:3R:452:HIS:CD2	2.30	0.66
34:3R:386:HIS:CE1	34:3R:390:LEU:HD11	2.30	0.66
34:3Y:280:TRP:HB2	34:3Y:452:HIS:CD2	2.30	0.66
37:4E:546:SER:HB3	42:5H:112:THR:N	2.10	0.66
37:4E:576:ALA:CA	43:5L:52:LEU:HD21	2.24	0.66
37:4F:1083:ILE:C	37:4F:1083:ILE:HG22	2.19	0.66
37:4F:1173:LEU:HD13	37:4F:1204:LYS:HG2	1.76	0.66
37:4G:431:ALA:CB	38:4L:83:TYR:CE2	2.79	0.66
37:4G:1169:VAL:HG13	37:4G:1195:ARG:NH2	2.10	0.66
37:4H:544:MET:HE3	38:4M:70:LYS:O	1.95	0.66
38:4N:76:PRO:HA	38:4N:79:PHE:HB3	1.77	0.66
41:4Z:33:TYR:HA	41:4Z:80:VAL:O	1.94	0.66
43:5J:34:ALA:CB	43:5J:35:LYS:HD3	2.26	0.66
47:6B:1014:GLU:HA	47:6B:1017:LYS:HG2	1.75	0.66
51:6M:1362:ARG:HG2	51:6M:1373:HIS:HA	1.76	0.66
51:6N:1240:LYS:NZ	51:6N:1428:LEU:HD21	2.10	0.66
13:6b:238:LEU:HD21	13:6b:378:ILE:HD11	1.77	0.66
12:7g:417:ASP:O	12:7g:421:GLU:HG2	1.95	0.66
13:8h:238:LEU:HD21	13:8h:378:ILE:HD11	1.77	0.66
13:9b:101:ASN:HA	13:9b:144:GLY:H	1.60	0.66
13:Ab:238:LEU:HD21	13:Ab:378:ILE:HD11	1.77	0.66
13:Af:238:LEU:HD21	13:Af:378:ILE:HD11	1.77	0.66
12:Ag:86:ARG:HA	12:Bg:281:TYR:CD1	2.29	0.66
12:Ba:86:ARG:HD3	12:Ca:281:TYR:CB	2.24	0.66
12:Bg:60:VAL:HG11	12:Bg:86:ARG:HH21	1.60	0.66
12:Ca:135:VAL:HG21	12:Ca:152:ILE:HD11	1.77	0.66
13:Cb:269:LEU:HB2	13:Cb:379:SER:HB3	1.77	0.66
13:Cf:269:LEU:HB2	13:Cf:379:SER:HB3	1.77	0.66
13:Db:238:LEU:HD21	13:Db:378:ILE:HD11	1.77	0.66
1:0K:34:ILE:HA	1:0K:37:LEU:HD12	1.77	0.66
1:0A:91:SER:HA	1:0A:99:TYR:CE2	2.30	0.66
1:0B:329:LEU:HD23	1:0B:370:HIS:NE2	2.10	0.66
1:0Q:405:LYS:HA	1:0Q:408:ILE:HD12	1.78	0.66
1:1A:257:LEU:HD21	1:1A:294:GLY:HA2	1.76	0.66
4:1J:194:LEU:HB3	4:1J:196:PHE:HD2	1.60	0.66
10:1S:57:LYS:HD2	13:Ah:339:ARG:HA	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1c:253:LEU:HD11	12:1c:316:LEU:HD21	1.78	0.66
13:1d:72:PRO:HG3	12:1e:1:MET:HE2	1.76	0.66
13:1d:269:LEU:HB2	13:1d:379:SER:HB3	1.77	0.66
24:2T:177:ALA:O	24:2T:181:GLN:HG2	1.95	0.66
12:2e:176:SER:HB3	13:2f:349:THR:HB	1.77	0.66
34:3M:433:TYR:CE1	34:3M:438:ILE:HD11	2.30	0.66
34:3V:79:ALA:HA	34:3V:82:ILE:HD12	1.77	0.66
12:3g:253:LEU:HD11	12:3g:316:LEU:HD21	1.77	0.66
34:4A:79:ALA:HA	34:4A:82:ILE:HD12	1.77	0.66
35:4C:506:VAL:HG11	35:4C:774:VAL:HG11	1.76	0.66
37:4F:970:SER:O	37:4F:1074:GLN:N	2.28	0.66
37:4G:1083:ILE:O	38:4L:38:VAL:HG23	1.94	0.66
37:4G:1084:ARG:NE	38:4L:40:LYS:HG2	2.11	0.66
37:4G:1136:ARG:CB	38:4L:33:LYS:HE2	2.25	0.66
37:4G:1341:ILE:HD13	38:4L:27:ALA:HB1	1.77	0.66
38:4J:53:LEU:HB3	38:4M:72:ARG:HB3	1.76	0.66
38:4L:76:PRO:HA	38:4L:79:PHE:HB3	1.77	0.66
38:4M:25:PRO:HA	38:4M:28:VAL:H	1.60	0.66
39:4R:73:ARG:NH2	44:5Q:149:MET:O	2.28	0.66
43:5I:34:ALA:CB	43:5I:35:LYS:HD3	2.26	0.66
48:6E:987:MET:HG2	48:6E:995:VAL:HG11	1.76	0.66
50:6L:11:ASP:OD1	50:6L:149:THR:HG21	1.95	0.66
13:8d:269:LEU:HB2	13:8d:379:SER:HB3	1.77	0.66
13:Ah:238:LEU:HD21	13:Ah:378:ILE:HD11	1.77	0.66
13:Dh:319:TYR:HB3	13:Dh:323:VAL:HG21	1.78	0.66
1:0H:27:MET:HE3	1:0H:37:LEU:HD11	1.77	0.66
1:0J:322:ALA:HB2	1:0J:362:GLN:HG2	1.78	0.66
44:5P:89:LEU:HG	44:5P:146:VAL:HG22	1.77	0.66
1:0A:252:ILE:HG22	1:0A:256:ILE:HG12	1.77	0.66
1:0G:198:THR:HB	1:0G:201:LEU:HG	1.78	0.66
1:0L:371:ALA:HB1	1:0L:407:VAL:HA	1.78	0.66
1:0O:174:LEU:HG	3:6D:97:THR:HG22	1.76	0.66
1:0U:69:ALA:O	1:0U:113:HIS:NE2	2.28	0.66
1:0Z:85:LEU:HD11	1:0Z:107:LEU:HD23	1.77	0.66
2:1F:189:LEU:HD13	2:1F:227:VAL:HG12	1.77	0.66
4:1K:194:LEU:HB3	4:1K:196:PHE:HD2	1.60	0.66
13:1b:101:ASN:HA	13:1b:144:GLY:H	1.61	0.66
13:1b:269:LEU:HB2	13:1b:379:SER:HB3	1.77	0.66
13:1d:101:ASN:HA	13:1d:144:GLY:H	1.61	0.66
13:1f:269:LEU:HB2	13:1f:379:SER:HB3	1.77	0.66
13:1h:319:TYR:HB3	13:1h:323:VAL:HG21	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2U:128:VAL:HG11	12:De:332:ASN:HA	1.77	0.66
12:2e:60:VAL:HG12	12:2e:86:ARG:CZ	2.25	0.66
30:3F:334:PRO:HG2	13:7f:396:ASP:HB2	1.75	0.66
30:3G:666:VAL:HG13	13:7d:433:GLU:CG	2.25	0.66
34:3T:92:THR:HA	34:3T:95:ARG:HH11	1.61	0.66
12:3a:86:ARG:HA	12:4a:281:TYR:CE1	2.31	0.66
12:3c:417:ASP:O	12:3c:421:GLU:HG2	1.95	0.66
37:4E:1703:PRO:HA	37:4E:1773:PRO:HB3	1.77	0.66
37:4F:1073:LEU:O	38:4N:41:LYS:CE	2.43	0.66
37:4F:1169:VAL:HG13	37:4F:1195:ARG:NH2	2.10	0.66
37:4H:1092:LEU:CA	38:4M:33:LYS:HA	2.25	0.66
37:4H:1138:VAL:C	37:4H:1139:THR:HG23	2.20	0.66
38:4M:24:THR:HG23	38:4M:25:PRO:HD3	1.75	0.66
39:4S:48:LEU:HD13	44:5U:124:GLU:HB3	1.76	0.66
42:5H:86:ILE:HA	43:5L:47:LYS:NZ	2.11	0.66
42:5H:92:THR:C	43:5L:44:THR:HG23	2.21	0.66
42:5H:137:TYR:HD1	43:5L:47:LYS:N	1.76	0.66
42:5H:148:GLN:HA	43:5L:90:GLN:CD	2.20	0.66
43:5K:112:PRO:HB3	44:5U:115:ASN:CB	2.19	0.66
47:6B:205:ARG:NH2	12:Bg:403:MET:HG3	2.10	0.66
50:6K:11:ASP:OD1	50:6K:149:THR:HG21	1.95	0.66
13:8f:269:LEU:HB2	13:8f:379:SER:HB3	1.77	0.66
13:8h:55:GLU:O	13:9h:285:GLN:NE2	2.29	0.66
12:Ag:135:VAL:HG21	12:Ag:152:ILE:HD11	1.78	0.66
12:Ag:417:ASP:O	12:Ag:421:GLU:HG2	1.95	0.66
13:Cb:406:HIS:CD2	12:Cc:261:PRO:HD3	2.30	0.66
13:Ch:269:LEU:HB2	13:Ch:379:SER:HB3	1.77	0.66
13:Ch:319:TYR:HB3	13:Ch:323:VAL:HG21	1.78	0.66
13:Df:319:TYR:HB3	13:Df:323:VAL:HG21	1.78	0.66
1:0H:282:THR:HB	1:0H:285:LEU:HB2	1.77	0.66
1:0W:122:ILE:HG23	1:0W:127:LEU:HG	1.77	0.66
1:0V:52:ASP:H	1:0V:58:GLN:NE2	1.89	0.66
3:1H:197:SER:C	47:6A:286:ARG:O	2.38	0.66
3:1H:206:ASP:N	47:6A:291:GLN:HE21	1.92	0.66
4:1J:21:ILE:O	4:1J:23:TYR:N	2.29	0.66
4:1K:21:ILE:O	4:1K:23:TYR:N	2.29	0.66
13:1f:319:TYR:HB3	13:1f:323:VAL:HG21	1.77	0.66
13:1h:101:ASN:HA	13:1h:144:GLY:H	1.60	0.66
13:1h:269:LEU:HB2	13:1h:379:SER:HB3	1.77	0.66
13:2d:238:LEU:HD21	13:2d:378:ILE:HD11	1.77	0.66
34:3O:386:HIS:CE1	34:3O:390:LEU:HD11	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3Z:338:LEU:O	34:3Z:342:GLN:NE2	2.28	0.66
13:3f:269:LEU:HB2	13:3f:379:SER:HB3	1.77	0.66
35:4C:330:PRO:HB3	35:4C:373:ILE:HG13	1.76	0.66
36:4D:216:ASN:HA	36:4D:223:THR:HG23	1.77	0.66
37:4E:509:PRO:O	37:4E:510:HIS:ND1	2.29	0.66
37:4E:808:SER:OG	37:4E:1626:VAL:HG22	1.96	0.66
37:4G:567:LEU:HD11	38:4I:32:GLU:OE1	1.95	0.66
37:4H:510:HIS:NE2	38:4M:70:LYS:CE	2.58	0.66
37:4H:826:LEU:HD13	38:4M:82:TYR:HE1	1.60	0.66
37:4H:1173:LEU:HD13	37:4H:1204:LYS:HG2	1.76	0.66
37:4H:1323:ILE:CG2	38:4M:26:GLU:CG	2.73	0.66
37:4H:1681:ARG:HB3	37:4H:1697:SER:OG	1.95	0.66
38:4J:75:ASN:ND2	38:4J:78:GLU:OE1	2.28	0.66
38:4K:32:GLU:HG3	38:4K:33:LYS:NZ	2.11	0.66
38:4L:29:LYS:HB3	38:4L:32:GLU:HG2	1.76	0.66
38:4L:32:GLU:HG3	38:4L:33:LYS:NZ	2.11	0.66
38:4L:35:ALA:O	38:4L:38:VAL:N	2.27	0.66
42:5H:93:GLU:H	43:5L:45:ASN:HD22	1.38	0.66
13:5b:100:ALA:HB1	12:5c:255:VAL:HG11	1.78	0.66
13:5b:238:LEU:HD21	13:5b:378:ILE:HD11	1.77	0.66
47:6A:1648:ILE:HD11	47:6A:1769:ARG:HH21	1.60	0.66
48:6E:105:LEU:O	48:6E:107:GLY:N	2.27	0.66
12:7c:117:LEU:HA	12:7c:120:VAL:HG12	1.77	0.66
13:9d:222:PRO:HD2	12:9e:324:LYS:HG2	1.77	0.66
12:Bg:176:SER:HB2	12:Bg:181:GLU:OE1	1.96	0.66
13:Cb:238:LEU:HD21	13:Cb:378:ILE:HD11	1.77	0.66
12:Cc:134:GLN:HA	12:Cc:165:LEU:O	1.96	0.66
13:Cf:319:TYR:HB3	13:Cf:323:VAL:HG21	1.78	0.66
12:Dc:11:GLN:HE22	13:Dd:249:ASN:H	1.42	0.66
13:Dd:238:LEU:HD21	13:Dd:378:ILE:HD11	1.77	0.66
13:Dd:319:TYR:HB3	13:Dd:323:VAL:HG21	1.78	0.66
13:Df:238:LEU:HD21	13:Df:378:ILE:HD11	1.77	0.66
13:Dh:101:ASN:HA	13:Dh:144:GLY:H	1.60	0.66
1:0W:198:THR:HB	1:0W:201:LEU:HG	1.78	0.66
1:0I:117:LEU:O	1:0I:121:VAL:HG23	1.96	0.66
1:0G:69:ALA:O	1:0G:113:HIS:NE2	2.29	0.66
1:0G:311:LEU:HD21	1:0G:352:LEU:HA	1.77	0.66
1:0R:280:LYS:HA	47:6B:277:PHE:CD1	2.29	0.66
2:1E:88:LEU:HD23	2:1E:91:CYS:SG	2.36	0.66
4:1J:69:ILE:HG13	47:6B:95:TYR:HE2	1.61	0.66
4:1J:190:ALA:HB1	4:1J:222:SER:OG	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1O:1424:GLU:HA	7:1O:1427:ALA:HB3	1.77	0.66
7:1O:3185:ARG:HD2	7:1O:3216:TRP:CD2	2.31	0.66
13:1b:238:LEU:HD21	13:1b:378:ILE:HD11	1.77	0.66
13:1b:319:TYR:HB3	13:1b:323:VAL:HG21	1.78	0.66
13:1d:319:TYR:HB3	13:1d:323:VAL:HG21	1.78	0.66
24:2T:183:GLU:HA	24:2T:186:ARG:HD3	1.77	0.66
34:3Y:481:LEU:HB2	34:4A:485:TYR:OH	1.96	0.66
13:3h:269:LEU:HB2	13:3h:379:SER:HB3	1.77	0.66
35:4C:299:THR:HG23	35:4C:389:ARG:HB3	1.78	0.66
35:4C:811:ARG:HH22	37:4E:1681:ARG:HA	1.61	0.66
37:4E:583:GLU:CG	43:5L:36:TYR:HA	2.25	0.66
37:4E:794:GLU:OE1	37:4E:929:GLY:N	2.29	0.66
37:4G:1173:LEU:HD13	37:4G:1204:LYS:HG2	1.76	0.66
37:4G:1334:GLU:O	38:4L:28:VAL:HG22	1.96	0.66
37:4G:1334:GLU:HB2	37:4G:1340:PRO:HB3	1.77	0.66
37:4H:1138:VAL:CG1	38:4M:33:LYS:HB2	2.25	0.66
37:4H:1317:ASP:OD2	37:4H:1323:ILE:HD11	1.95	0.66
38:4I:25:PRO:HA	38:4I:28:VAL:H	1.61	0.66
38:4M:30:ALA:O	38:4M:34:ALA:N	2.27	0.66
38:4M:32:GLU:HG3	38:4M:33:LYS:NZ	2.11	0.66
12:4c:253:LEU:HD11	12:4c:316:LEU:HD21	1.76	0.66
13:4h:269:LEU:HB2	13:4h:379:SER:HB3	1.77	0.66
42:5H:137:TYR:CA	43:5L:46:PRO:C	2.68	0.66
43:5L:34:ALA:CB	43:5L:35:LYS:HD3	2.25	0.66
12:5g:135:VAL:HG11	12:5g:152:ILE:HD11	1.76	0.66
47:6A:1592:LEU:HD13	47:6A:1596:TRP:HE1	1.59	0.66
47:6B:35:PHE:HB2	47:6B:41:GLN:HG2	1.78	0.66
47:6B:1592:LEU:HD13	47:6B:1596:TRP:HE1	1.59	0.66
13:6d:238:LEU:HD21	13:6d:378:ILE:HD11	1.77	0.66
12:6g:178:THR:HG22	13:6h:352:LYS:NZ	2.10	0.66
12:7e:309:ARG:NH2	12:7e:343:GLU:OE1	2.26	0.66
13:Cd:238:LEU:HD21	13:Cd:378:ILE:HD11	1.77	0.66
1:0W:134:LEU:HG	1:0W:145:SER:OG	1.95	0.66
1:0A:214:LEU:HD22	1:0A:229:VAL:HG12	1.77	0.66
1:0Q:127:LEU:HD11	1:0Q:149:LEU:HD21	1.76	0.66
1:0R:315:MET:SD	47:6B:270:VAL:HG13	2.35	0.66
1:0V:206:VAL:HG21	1:0V:243:LEU:HD22	1.77	0.66
1:0X:220:ASN:O	1:0X:226:LYS:NZ	2.28	0.66
2:1G:367:VAL:HG21	2:1G:386:LEU:HD23	1.77	0.66
7:1O:1194:ARG:HD3	7:1O:1194:ARG:H	1.60	0.66
8:1P:868:TRP:CG	8:1P:980:ARG:HB3	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1R:58:THR:N	13:Ad:339:ARG:NH2	2.39	0.66
13:1d:238:LEU:HD21	13:1d:378:ILE:HD11	1.77	0.66
13:1f:101:ASN:HA	13:1f:144:GLY:H	1.61	0.66
12:1g:238:CYS:SG	12:1g:241:ARG:NH2	2.68	0.66
23:2Q:53:UNK:HA	12:3g:336:LYS:HZ2	1.58	0.66
24:2V:151:PHE:HB3	12:Dg:335:ASN:ND2	2.10	0.66
13:2d:101:ASN:HA	13:2d:144:GLY:H	1.60	0.66
34:3M:386:HIS:CE1	34:3M:390:LEU:HD11	2.31	0.66
34:3M:398:ARG:O	34:3M:401:VAL:N	2.27	0.66
34:3N:482:LEU:HA	34:3U:485:TYR:HE2	1.61	0.66
37:4E:583:GLU:HA	43:5L:37:THR:CA	2.25	0.66
37:4E:1081:HIS:HB3	37:4E:1338:PHE:HE1	1.61	0.66
37:4F:1075:VAL:C	38:4N:38:VAL:CG1	2.63	0.66
37:4F:1082:LEU:CB	38:4N:39:HIS:HD2	2.09	0.66
37:4F:1136:ARG:HA	37:4F:1145:VAL:O	1.95	0.66
37:4H:1136:ARG:HG3	38:4M:33:LYS:HZ2	1.52	0.66
37:4H:1138:VAL:O	37:4H:1143:LEU:CA	2.44	0.66
38:4I:24:THR:HG23	38:4I:25:PRO:HD3	1.75	0.66
38:4J:29:LYS:HB3	38:4J:32:GLU:HG2	1.76	0.66
38:4J:32:GLU:HG3	38:4J:33:LYS:NZ	2.11	0.66
38:4J:40:LYS:NZ	38:4J:44:LEU:HB2	2.11	0.66
38:4K:29:LYS:HB3	38:4K:32:GLU:HG2	1.77	0.66
38:4K:46:ALA:HA	38:4K:49:ILE:HD13	1.75	0.66
42:5H:91:TYR:HD2	43:5L:40:ASN:C	2.04	0.66
47:6A:35:PHE:HB2	47:6A:41:GLN:HG2	1.78	0.66
47:6B:1285:ALA:O	47:6B:1289:VAL:HG23	1.96	0.66
51:6N:1255:CYS:HB3	51:6N:1321:LEU:HD21	1.76	0.66
13:6h:238:LEU:HD21	13:6h:378:ILE:HD11	1.77	0.66
13:9d:101:ASN:HA	13:9d:144:GLY:H	1.60	0.66
13:9f:101:ASN:HA	13:9f:144:GLY:H	1.60	0.66
13:Ah:101:ASN:HA	13:Ah:144:GLY:H	1.60	0.66
12:Ba:239:CYS:HB3	12:Ba:247:ASN:OD1	1.95	0.66
12:Bc:91:VAL:HG11	12:Bc:116:VAL:HG22	1.76	0.66
13:Bh:269:LEU:HB2	13:Bh:379:SER:HB3	1.77	0.66
13:Cb:319:TYR:HB3	13:Cb:323:VAL:HG21	1.78	0.66
13:Cd:319:TYR:HB3	13:Cd:323:VAL:HG21	1.78	0.66
12:Ce:73:MET:HA	12:Ce:76:VAL:HG12	1.77	0.66
13:Cf:238:LEU:HD21	13:Cf:378:ILE:HD11	1.77	0.66
1:0J:193:ASP:HA	1:0J:196:LYS:HE3	1.76	0.66
1:0J:368:PRO:HA	1:0J:410:LYS:HB3	1.76	0.66
1:0E:195:SER:O	1:0E:239:HIS:CE1	2.48	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0G:363:ILE:HG22	1:0G:370:HIS:HB3	1.77	0.66
1:0L:380:LEU:HD21	1:0L:407:VAL:HG21	1.77	0.66
1:0R:252:ILE:HG22	1:0R:256:ILE:HG12	1.77	0.66
1:0R:343:ALA:O	1:0R:347:GLU:HG3	1.96	0.66
1:0Y:216:PRO:HA	1:0Y:219:ILE:HD12	1.76	0.66
1:0Z:368:PRO:HA	1:0Z:410:LYS:HB3	1.77	0.66
2:1G:189:LEU:HD13	2:1G:227:VAL:HG12	1.77	0.66
4:1K:190:ALA:HB1	4:1K:222:SER:OG	1.96	0.66
13:2b:238:LEU:HD21	13:2b:378:ILE:HD11	1.77	0.66
31:3I:152:GLU:HB2	31:3I:156:ARG:HH21	1.61	0.66
32:3K:199:PRO:HD3	32:3K:204:VAL:HG23	1.78	0.66
34:3N:204:MET:SD	34:3Q:52:GLN:NE2	2.67	0.66
34:3O:478:ALA:O	34:3O:482:LEU:HG	1.95	0.66
13:3b:269:LEU:HB2	13:3b:379:SER:HB3	1.77	0.66
35:4C:883:GLU:OE2	35:4C:885:ARG:NE	2.28	0.66
37:4E:576:ALA:O	37:4E:582:GLN:NE2	2.28	0.66
37:4F:960:LEU:HD13	38:4N:46:ALA:CB	2.23	0.66
37:4F:1296:VAL:HB	37:4F:1756:PRO:HG3	1.77	0.66
37:4F:1681:ARG:HB3	37:4F:1697:SER:OG	1.95	0.66
37:4G:824:ALA:CB	37:4G:864:VAL:HG13	2.26	0.66
37:4G:1093:VAL:HG12	38:4L:33:LYS:HZ2	1.59	0.66
37:4H:970:SER:CB	38:4M:42:ILE:HG12	2.25	0.66
37:4H:970:SER:HB2	38:4M:42:ILE:HG12	1.77	0.66
37:4H:1144:LEU:CG	38:4M:29:LYS:HG3	2.24	0.66
37:4H:1322:ARG:HH11	37:4H:1712:LEU:CD2	2.09	0.66
38:4I:32:GLU:HG3	38:4I:33:LYS:NZ	2.11	0.66
38:4K:25:PRO:HA	38:4K:28:VAL:H	1.61	0.66
38:4K:40:LYS:NZ	38:4K:44:LEU:HB2	2.11	0.66
42:5H:130:ALA:O	42:5H:131:ARG:C	2.39	0.66
42:5H:137:TYR:CB	43:5L:48:THR:N	2.57	0.66
43:5I:40:ASN:O	43:5I:41:ASP:HB2	1.96	0.66
43:5K:34:ALA:CB	43:5K:35:LYS:HD3	2.26	0.66
43:5L:15:LEU:HD13	43:5L:69:ASP:CG	2.19	0.66
50:6K:548:LEU:HG	50:6K:587:LEU:HD21	1.78	0.66
50:6L:77:ARG:HH21	50:6L:232:THR:HG21	1.58	0.66
13:6b:269:LEU:HB2	13:6b:379:SER:HB3	1.77	0.66
13:6f:238:LEU:HD21	13:6f:378:ILE:HD11	1.77	0.66
12:8c:178:THR:OG1	12:8c:181:GLU:HG3	1.96	0.66
12:8e:73:MET:HA	12:8e:76:VAL:HG12	1.78	0.66
13:9h:101:ASN:HA	13:9h:144:GLY:H	1.60	0.66
13:Ad:128:ASN:HD21	13:Bd:285:GLN:HG3	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bb:101:ASN:HA	13:Bb:144:GLY:H	1.61	0.66
12:Be:113:ILE:HA	12:Be:116:VAL:HG22	1.78	0.66
13:Db:319:TYR:HB3	13:Db:323:VAL:HG21	1.78	0.66
13:Dd:101:ASN:HA	13:Dd:144:GLY:H	1.60	0.66
13:Df:101:ASN:HA	13:Df:144:GLY:H	1.61	0.66
1:0F:252:ILE:HG22	1:0F:256:ILE:HG12	1.78	0.66
1:0G:320:ILE:HB	1:0G:327:LEU:HD13	1.77	0.66
1:0U:257:LEU:HD21	1:0U:294:GLY:HA2	1.78	0.66
1:0V:322:ALA:HB2	1:0V:362:GLN:HG2	1.77	0.66
5:1M:436:ARG:HH22	5:1M:496:ARG:HG2	1.61	0.66
12:1a:256:ASN:OD1	12:1a:350:LYS:HE3	1.95	0.66
24:2T:126:ASN:HD22	24:2T:132:ARG:HG2	1.60	0.66
12:2a:134:GLN:HA	12:2a:165:LEU:O	1.95	0.66
13:2h:101:ASN:HA	13:2h:144:GLY:H	1.61	0.66
13:2h:238:LEU:HD21	13:2h:378:ILE:HD11	1.77	0.66
31:3H:247:ARG:HD3	32:3J:255:THR:HG21	1.78	0.66
31:3I:236:ARG:HH12	32:3K:160:GLN:HE21	1.44	0.66
32:3K:92:CYS:SG	32:3K:95:LYS:HB2	2.36	0.66
32:3K:316:LEU:HA	32:3K:319:LYS:HE2	1.78	0.66
34:3P:88:ALA:O	34:3P:92:THR:HG23	1.94	0.66
34:3T:72:PRO:O	34:3T:76:GLU:HG3	1.96	0.66
34:3W:479:ALA:HB2	37:4H:764:LEU:HD21	1.78	0.66
34:3X:263:LYS:HG2	34:3X:267:GLU:OE2	1.94	0.66
13:3f:222:PRO:HD2	12:3g:324:LYS:HG2	1.78	0.66
12:3g:135:VAL:HG11	12:3g:152:ILE:HD11	1.78	0.66
37:4E:542:ARG:HH22	42:5H:121:GLN:NE2	1.93	0.66
37:4E:1180:ALA:H	37:4E:1202:LYS:H	1.42	0.66
37:4F:856:MET:SD	38:4N:85:LEU:HB3	2.36	0.66
37:4F:1323:ILE:C	38:4N:26:GLU:OE2	2.39	0.66
37:4H:688:LEU:HD13	37:4H:782:PRO:HB3	1.77	0.66
38:4K:75:ASN:ND2	38:4K:78:GLU:OE1	2.28	0.66
38:4K:76:PRO:HA	38:4K:79:PHE:HB3	1.77	0.66
13:4d:269:LEU:HB2	13:4d:379:SER:HB3	1.77	0.66
13:4f:269:LEU:HB2	13:4f:379:SER:HB3	1.77	0.66
43:5J:86:SER:OG	43:5J:96:SER:HB2	1.95	0.66
43:5L:86:SER:OG	43:5L:96:SER:HB2	1.95	0.66
13:5f:222:PRO:HD2	12:5g:324:LYS:HG2	1.78	0.66
47:6A:1285:ALA:O	47:6A:1289:VAL:HG23	1.96	0.66
50:6L:548:LEU:HG	50:6L:587:LEU:HD21	1.78	0.66
12:6e:1:MET:HG2	12:6e:129:CYS:SG	2.34	0.66
12:7a:235:GLY:HA3	12:7a:366:THR:HG21	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:7e:134:GLN:HA	12:7e:165:LEU:O	1.96	0.66
12:9a:73:MET:HA	12:9a:76:VAL:HG12	1.78	0.66
13:9b:319:TYR:HB3	13:9b:323:VAL:HG21	1.78	0.66
13:Ad:101:ASN:HA	13:Ad:144:GLY:H	1.61	0.66
12:Bc:417:ASP:O	12:Bc:421:GLU:HG2	1.95	0.66
1:0K:358:TRP:HB2	1:0K:399:LYS:HD2	1.77	0.66
1:0A:182:SER:O	1:0A:186:ILE:HG12	1.94	0.66
1:0E:109:ALA:O	1:0E:113:HIS:ND1	2.28	0.66
1:0F:297:ALA:HB2	39:4Q:136:LEU:HD13	1.77	0.66
1:0G:55:PRO:CB	1:0G:96:ASN:HD21	2.09	0.66
1:0V:96:ASN:HB2	1:0V:99:TYR:HD2	1.59	0.66
1:0Z:52:ASP:H	1:0Z:58:GLN:NE2	1.93	0.66
2:1E:189:LEU:O	2:1E:193:VAL:HG23	1.96	0.66
3:1H:119:SER:OG	3:1H:122:MET:SD	2.53	0.66
10:1S:378:LEU:HD22	13:Bf:215:ARG:HA	1.78	0.66
13:1f:238:LEU:HD21	13:1f:378:ILE:HD11	1.77	0.66
17:2J:57:UNK:CB	13:Bb:84:ARG:HH12	2.09	0.66
13:2b:101:ASN:HA	13:2b:144:GLY:H	1.61	0.66
13:2f:101:ASN:HA	13:2f:144:GLY:H	1.61	0.66
31:3I:152:GLU:O	31:3I:156:ARG:HG3	1.95	0.66
35:4C:405:GLN:HG2	35:4C:502:ASN:HB2	1.77	0.66
36:4D:157:PRO:HA	36:4D:188:ARG:NH1	2.11	0.66
37:4E:574:LEU:N	43:5L:30:ARG:HE	1.94	0.66
37:4F:1156:LEU:HD22	37:4F:1317:ASP:OD1	1.96	0.66
37:4F:1323:ILE:CA	38:4N:26:GLU:CB	2.27	0.66
37:4G:431:ALA:HB3	38:4L:83:TYR:CD2	2.31	0.66
37:4G:431:ALA:HB3	38:4L:83:TYR:CE2	2.31	0.66
37:4G:1335:MET:HG2	38:4L:32:GLU:OE1	1.95	0.66
13:4b:269:LEU:HB2	13:4b:379:SER:HB3	1.77	0.66
12:5c:261:PRO:O	12:5c:262:ARG:HG2	1.96	0.66
50:6L:275:ARG:HH22	50:6L:288:ILE:HG23	1.59	0.66
51:6M:1531:GLN:HB3	51:6M:1533:ARG:NH1	2.11	0.66
51:6N:1479:VAL:HG13	51:6N:1495:GLN:HB3	1.78	0.66
12:Bg:417:ASP:O	12:Bg:421:GLU:HG2	1.95	0.66
13:Db:101:ASN:HA	13:Db:144:GLY:H	1.60	0.66
13:Df:222:PRO:O	12:Dg:322:SER:OG	2.13	0.66
12:Dg:11:GLN:HE22	13:Dh:249:ASN:H	1.42	0.66
1:0J:198:THR:HB	1:0J:201:LEU:HG	1.78	0.66
1:0W:55:PRO:CB	1:0W:96:ASN:HD21	2.09	0.66
1:0K:363:ILE:HG22	1:0K:370:HIS:HB3	1.77	0.66
1:0Q:142:LYS:HE3	1:0Q:178:GLU:OE2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Y:262:PHE:HE2	1:0Y:264:ASP:HB3	1.61	0.66
1:0Z:278:VAL:HG23	1:0Z:285:LEU:HD23	1.77	0.66
1:1C:363:ILE:HG22	1:1C:370:HIS:HB3	1.78	0.66
6:1N:1820:MET:HE1	8:1P:691:ARG:HG2	1.77	0.66
13:1h:238:LEU:HD21	13:1h:378:ILE:HD11	1.77	0.66
14:2G:68:CYS:CB	13:Cf:46:ASP:HB2	2.19	0.66
13:2f:238:LEU:HD21	13:2f:378:ILE:HD11	1.77	0.66
34:3U:361:LEU:HD12	34:3U:362:PRO:HD2	1.78	0.66
12:3a:73:MET:HA	12:3a:76:VAL:HG12	1.78	0.66
13:3b:319:TYR:HB3	13:3b:323:VAL:HG21	1.78	0.66
13:3d:269:LEU:HB2	13:3d:379:SER:HB3	1.77	0.66
35:4C:835:ALA:HB3	35:4C:854:THR:OG1	1.95	0.66
36:4D:89:ASP:HB2	36:4D:104:LEU:CD2	2.26	0.66
37:4E:1165:ARG:HH11	37:4E:1184:TRP:NE1	1.94	0.66
37:4F:1138:VAL:HG22	38:4N:33:LYS:HG3	1.77	0.66
37:4H:538:GLU:O	37:4H:542:ARG:HG2	1.96	0.66
37:4H:544:MET:HE2	37:4H:544:MET:CA	2.22	0.66
37:4H:1336:ASP:HA	37:4H:1709:LEU:HB2	1.77	0.66
38:4N:30:ALA:O	38:4N:34:ALA:N	2.27	0.66
38:4N:75:ASN:ND2	38:4N:78:GLU:OE1	2.28	0.66
43:5I:86:SER:OG	43:5I:96:SER:HB2	1.95	0.66
47:6A:1013:ALA:HA	47:6A:1016:LEU:HD12	1.77	0.66
47:6B:366:GLU:CB	3:6D:683:ARG:HD3	2.25	0.66
47:6B:594:LEU:HD12	47:6B:768:ASP:HA	1.77	0.66
3:6D:19:LEU:HG	3:6D:42:LEU:HD11	1.78	0.66
49:6I:239:LYS:HE3	49:6I:244:GLN:HG2	1.77	0.66
49:6J:239:LYS:HE3	49:6J:244:GLN:HG2	1.77	0.66
50:6K:77:ARG:HH21	50:6K:232:THR:HG21	1.59	0.66
50:6K:275:ARG:O	50:6K:279:THR:HG23	1.95	0.66
50:6K:313:MET:SD	50:6K:351:LYS:HE2	2.35	0.66
51:6M:1479:VAL:HG13	51:6M:1495:GLN:HB3	1.78	0.66
51:6N:1531:GLN:HB3	51:6N:1533:ARG:NH1	2.11	0.66
51:6N:2294:ASP:O	51:6N:2296:LYS:N	2.29	0.66
12:6c:261:PRO:O	12:6c:262:ARG:HG2	1.96	0.66
12:6c:397:TRP:CD2	13:6d:257:THR:HG22	2.31	0.66
13:6d:101:ASN:HA	13:6d:144:GLY:H	1.61	0.66
13:6f:101:ASN:HA	13:6f:144:GLY:H	1.61	0.66
13:6h:101:ASN:HA	13:6h:144:GLY:H	1.61	0.66
12:8g:67:ASP:OD2	12:8g:72:THR:OG1	2.13	0.66
13:8h:269:LEU:HB2	13:8h:379:SER:HB3	1.77	0.66
12:Ae:208:TYR:OH	13:Af:325:PRO:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bf:101:ASN:HA	13:Bf:144:GLY:H	1.61	0.66
12:Ce:101:TRP:CD1	12:Ce:145:SER:HG	2.14	0.66
13:Ch:238:LEU:HD21	13:Ch:378:ILE:HD11	1.77	0.66
13:Db:177:VAL:HB	12:Dc:331:LEU:HD22	1.78	0.66
13:Dh:238:LEU:HD21	13:Dh:378:ILE:HD11	1.77	0.66
1:0M:252:ILE:HD12	1:0M:255:LYS:HD3	1.78	0.65
1:0Q:108:ARG:HD2	1:0Q:147:TRP:HB3	1.77	0.65
1:0V:96:ASN:HB2	1:0V:99:TYR:CD2	2.32	0.65
1:0V:167:GLY:O	1:0V:169:VAL:N	2.25	0.65
1:0Y:368:PRO:HA	1:0Y:410:LYS:HB3	1.77	0.65
3:1I:1003:THR:HG23	3:1I:1004:ALA:H	1.60	0.65
6:1N:977:GLU:HG2	6:1N:1034:TRP:CE2	2.31	0.65
6:1N:1756:LEU:HD21	6:1N:1791:LEU:HD13	1.78	0.65
12:1c:170:VAL:HG21	12:1c:201:VAL:HG23	1.77	0.65
12:1g:317:PHE:HB3	12:1g:321:MET:HE1	1.77	0.65
12:2a:73:MET:HA	12:2a:76:VAL:HG12	1.78	0.65
30:3F:301:VAL:CG1	13:6f:264:ARG:NE	2.59	0.65
30:3F:386:MET:CG	13:8f:339:ARG:NH1	2.59	0.65
30:3G:675:ARG:O	30:3G:679:GLN:HG3	1.95	0.65
33:3L:41:PHE:CD1	33:3L:44:PHE:HZ	2.13	0.65
34:3M:269:GLY:HA3	34:3M:463:HIS:ND1	2.11	0.65
34:3P:107:TYR:HA	34:3P:110:LEU:HD12	1.78	0.65
34:3R:288:MET:HE1	34:4B:200:ALA:CB	2.26	0.65
34:3S:107:TYR:O	34:3S:111:ILE:HG12	1.96	0.65
13:3f:319:TYR:HB3	13:3f:323:VAL:HG21	1.78	0.65
36:4D:243:ARG:NH2	36:4D:262:THR:HB	2.11	0.65
37:4E:581:LEU:H	43:5L:35:LYS:HD3	1.60	0.65
37:4F:794:GLU:HG2	38:4K:70:LYS:HZ2	1.61	0.65
37:4G:1296:VAL:HB	37:4G:1756:PRO:HG3	1.76	0.65
37:4H:1185:LEU:HD11	37:4H:1193:ARG:HB3	1.76	0.65
37:4H:1334:GLU:HB3	37:4H:1340:PRO:CA	2.24	0.65
13:4b:101:ASN:HA	13:4b:144:GLY:H	1.61	0.65
41:5A:161:PHE:C	41:5A:164:GLY:HA2	2.21	0.65
42:5H:135:ARG:HD3	43:5L:56:VAL:CA	2.26	0.65
42:5H:144:PHE:CZ	43:5L:144:TYR:CZ	2.83	0.65
12:5g:261:PRO:O	12:5g:262:ARG:HG2	1.97	0.65
3:6D:550:PHE:CE2	3:6D:554:ILE:HD11	2.31	0.65
3:6D:812:VAL:HG11	3:6D:822:LEU:HD22	1.76	0.65
50:6L:275:ARG:O	50:6L:279:THR:HG23	1.95	0.65
51:6M:1255:CYS:HB3	51:6M:1321:LEU:HD21	1.76	0.65
51:6M:2294:ASP:O	51:6M:2296:LYS:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6N:1264:MET:HE3	51:6N:1265:PRO:HD2	1.78	0.65
12:6a:73:MET:HA	12:6a:76:VAL:HG12	1.78	0.65
12:6a:135:VAL:HG21	12:6a:152:ILE:HD11	1.76	0.65
13:6d:269:LEU:HB2	13:6d:379:SER:HB3	1.77	0.65
12:6e:73:MET:HA	12:6e:76:VAL:HG12	1.78	0.65
13:6f:269:LEU:HB2	13:6f:379:SER:HB3	1.77	0.65
13:8h:101:ASN:HA	13:8h:144:GLY:H	1.61	0.65
12:9g:261:PRO:O	12:9g:262:ARG:HG2	1.96	0.65
13:Ah:319:TYR:HB3	13:Ah:323:VAL:HG21	1.78	0.65
13:Bd:269:LEU:HB2	13:Bd:379:SER:HB3	1.77	0.65
13:Ch:101:ASN:HA	13:Ch:144:GLY:H	1.61	0.65
12:Da:20:PHE:HA	12:Da:230:SER:OG	1.95	0.65
1:0B:287:GLN:HE22	1:0B:326:THR:HG23	1.59	0.65
1:0O:134:LEU:HG	1:0O:145:SER:OG	1.96	0.65
1:0X:128:ASP:O	1:0X:132:THR:HG23	1.97	0.65
1:1A:206:VAL:HG21	1:1A:243:LEU:HD22	1.78	0.65
1:1A:219:ILE:HA	1:1A:255:LYS:CE	2.26	0.65
1:1B:187:ALA:O	1:1B:191:LEU:HG	1.96	0.65
6:1N:607:ARG:NH1	6:1N:649:MET:SD	2.68	0.65
10:1S:49:LEU:HD13	10:1S:127:LEU:HG	1.76	0.65
10:1S:414:ASP:OD2	13:Bf:327:ASP:HA	1.96	0.65
12:1c:115:SER:HA	12:1c:118:ASP:OD2	1.95	0.65
12:1e:99:ASN:HA	12:1e:142:GLY:H	1.60	0.65
12:2e:73:MET:HA	12:2e:76:VAL:HG12	1.78	0.65
34:3O:254:MET:HG3	34:3O:477:GLU:OE2	1.96	0.65
34:3O:276:GLU:OE1	34:3O:455:THR:OG1	2.14	0.65
34:3S:90:GLU:HB3	34:3U:33:GLN:NE2	2.11	0.65
34:3T:433:TYR:CZ	34:3T:438:ILE:HD11	2.31	0.65
34:3Z:498:LEU:O	34:3Z:502:VAL:HG23	1.96	0.65
13:3d:319:TYR:HB3	13:3d:323:VAL:HG21	1.78	0.65
13:3h:196:GLU:HA	39:4Q:172:THR:HG22	1.79	0.65
13:3h:238:LEU:HD21	13:3h:378:ILE:HD11	1.77	0.65
37:4E:968:VAL:HG11	38:4O:46:ALA:HA	1.77	0.65
37:4G:856:MET:HE1	37:4G:860:LEU:CB	2.25	0.65
37:4G:1082:LEU:O	38:4L:35:ALA:CA	2.43	0.65
37:4G:1333:VAL:CG2	38:4L:25:PRO:C	2.70	0.65
37:4H:1084:ARG:HH21	38:4M:40:LYS:CG	2.08	0.65
37:4H:1297:THR:HB	37:4H:1305:VAL:HG22	1.78	0.65
38:4I:76:PRO:HA	38:4I:79:PHE:HB3	1.77	0.65
38:4M:76:PRO:HA	38:4M:79:PHE:HB3	1.77	0.65
13:4b:319:TYR:HB3	13:4b:323:VAL:HG21	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:4e:73:MET:HA	12:4e:76:VAL:HG12	1.78	0.65
42:5H:136:HIS:CE1	43:5L:54:LEU:HB3	2.32	0.65
42:5H:146:THR:C	43:5L:148:ASN:ND2	2.53	0.65
42:5H:158:MET:HA	43:5L:158:HIS:CD2	2.31	0.65
47:6A:594:LEU:HD12	47:6A:768:ASP:HA	1.77	0.65
50:6K:275:ARG:HH22	50:6K:288:ILE:HG23	1.59	0.65
13:6b:101:ASN:HA	13:6b:144:GLY:H	1.61	0.65
13:6h:269:LEU:HB2	13:6h:379:SER:HB3	1.77	0.65
12:8g:261:PRO:O	12:8g:262:ARG:HG2	1.97	0.65
12:Ca:73:MET:HA	12:Ca:76:VAL:HG12	1.78	0.65
1:0J:133:CYS:SG	1:0J:145:SER:HB2	2.36	0.65
1:0W:69:ALA:O	1:0W:113:HIS:NE2	2.29	0.65
1:0C:368:PRO:HA	1:0C:410:LYS:HB3	1.77	0.65
1:0L:337:LEU:O	1:0L:341:VAL:HG23	1.97	0.65
1:0P:282:THR:HB	1:0P:285:LEU:HB2	1.78	0.65
1:0T:368:PRO:HA	1:0T:410:LYS:HB3	1.78	0.65
1:0Y:367:THR:HB	1:0Y:370:HIS:CD2	2.30	0.65
1:1B:34:ILE:HG23	1:1B:68:LEU:HD22	1.78	0.65
1:1B:193:ASP:HA	1:1B:196:LYS:HE3	1.76	0.65
4:1J:63:ILE:HG23	4:1J:179:GLU:HG2	1.77	0.65
4:1K:63:ILE:HG23	4:1K:179:GLU:HG2	1.77	0.65
5:1L:436:ARG:HH22	5:1L:496:ARG:HG2	1.61	0.65
6:1N:1723:LEU:HD21	6:1N:1735:LEU:HD11	1.78	0.65
7:1O:956:ALA:HB1	13:7b:402:ARG:HG3	1.77	0.65
12:1a:73:MET:HA	12:1a:76:VAL:HG12	1.78	0.65
24:2T:143:SER:HB3	13:Ch:117:LEU:CD2	2.26	0.65
24:2V:141:ARG:HD3	13:Df:297:GLU:HB3	1.77	0.65
30:3F:530:THR:HG21	31:3H:385:ILE:HA	1.77	0.65
34:3O:259:MET:HB3	34:3O:263:LYS:HZ3	1.61	0.65
34:3P:118:HIS:HA	34:3P:121:LEU:CD2	2.26	0.65
34:3S:77:GLN:O	34:3S:81:GLU:HG3	1.95	0.65
34:3V:99:ARG:O	34:3V:103:LEU:HG	1.95	0.65
12:3a:86:ARG:NH1	12:4a:280:GLN:HB2	2.11	0.65
34:4A:366:VAL:HG22	37:4F:904:ALA:HB1	1.78	0.65
34:4B:209:THR:HG23	34:4B:211:PRO:HD3	1.78	0.65
36:4D:170:HIS:HB3	36:4D:245:HIS:CE1	2.31	0.65
37:4F:1083:ILE:HA	38:4N:38:VAL:H	1.58	0.65
37:4F:1322:ARG:O	38:4N:25:PRO:HB2	1.96	0.65
37:4G:671:LEU:CD1	38:4I:40:LYS:CB	2.74	0.65
37:4G:854:TYR:CE1	37:4G:854:TYR:CD2	2.84	0.65
37:4G:856:MET:CG	38:4L:85:LEU:HB3	2.20	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1082:LEU:HG	37:4G:1101:LEU:HD11	1.77	0.65
37:4G:1302:ASN:CA	43:5I:122:MET:HE1	2.26	0.65
37:4G:1335:MET:CG	38:4L:28:VAL:O	2.44	0.65
37:4G:1340:PRO:C	37:4G:1341:ILE:HD12	2.21	0.65
37:4H:1333:VAL:HG13	38:4M:24:THR:O	1.96	0.65
38:4K:25:PRO:HG2	42:5G:93:GLU:HA	1.77	0.65
38:4L:25:PRO:HA	38:4L:28:VAL:H	1.61	0.65
39:4R:65:ARG:HD3	44:5Q:48:THR:HG22	1.77	0.65
42:5H:133:LEU:C	42:5H:134:LEU:O	2.37	0.65
13:5f:101:ASN:HA	13:5f:144:GLY:H	1.61	0.65
48:6E:876:ALA:HB1	48:6E:923:ARG:HA	1.77	0.65
50:6L:313:MET:SD	50:6L:351:LYS:HE2	2.35	0.65
12:7c:417:ASP:O	12:7c:421:GLU:HG2	1.96	0.65
13:7d:238:LEU:HD21	13:7d:378:ILE:HD11	1.77	0.65
13:7f:238:LEU:HD21	13:7f:378:ILE:HD11	1.77	0.65
13:7h:238:LEU:HD21	13:7h:378:ILE:HD11	1.77	0.65
12:9c:417:ASP:O	12:9c:421:GLU:HG2	1.95	0.65
13:Ab:101:ASN:HA	13:Ab:144:GLY:H	1.60	0.65
13:Af:101:ASN:HA	13:Af:144:GLY:H	1.61	0.65
12:Ba:74:ASP:HA	12:Ba:77:ARG:HE	1.61	0.65
13:Bd:101:ASN:HA	13:Bd:144:GLY:H	1.61	0.65
13:Cf:101:ASN:HA	13:Cf:144:GLY:H	1.60	0.65
1:0B:342:SER:O	1:0B:346:GLU:HG2	1.96	0.65
1:0G:122:ILE:HG23	1:0G:127:LEU:HG	1.78	0.65
1:0P:373:ALA:O	1:0P:377:THR:HG23	1.95	0.65
1:0X:21:VAL:HG22	1:0X:49:LEU:HD13	1.78	0.65
1:0X:214:LEU:HD22	1:0X:229:VAL:HG12	1.77	0.65
2:1F:51:VAL:HA	10:1S:358:ALA:HB2	1.78	0.65
24:2T:141:ARG:CZ	13:Dh:215:ARG:HH12	2.10	0.65
12:2e:20:PHE:HA	12:2e:230:SER:HB2	1.77	0.65
12:2g:11:GLN:HE22	13:2h:249:ASN:H	1.43	0.65
34:3O:294:HIS:NE2	34:3O:437:GLY:HA3	2.11	0.65
34:3T:99:ARG:O	34:3T:103:LEU:HG	1.96	0.65
34:3W:200:ALA:CB	34:3Y:288:MET:HE1	2.26	0.65
34:3Z:493:LYS:O	34:3Z:497:MET:HG2	1.97	0.65
35:4C:335:PHE:CE2	35:4C:386:LEU:HD22	2.32	0.65
37:4G:671:LEU:HD13	38:4I:40:LYS:N	2.11	0.65
38:4J:76:PRO:HA	38:4J:79:PHE:HB3	1.77	0.65
40:4V:359:GLU:O	40:4V:363:VAL:HG13	1.96	0.65
13:4f:101:ASN:HA	13:4f:144:GLY:H	1.61	0.65
13:4h:238:LEU:HD21	13:4h:378:ILE:HD11	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:94:CYS:HB2	43:5L:45:ASN:HA	1.77	0.65
43:5K:86:SER:OG	43:5K:96:SER:HB2	1.95	0.65
12:5e:113:ILE:HA	12:5e:116:VAL:HG22	1.77	0.65
49:6J:117:ILE:HG23	49:6J:136:MET:HE2	1.77	0.65
51:6N:2046:LEU:HD22	51:6N:2059:LEU:HD13	1.78	0.65
12:6a:134:GLN:HA	12:6a:165:LEU:O	1.97	0.65
12:6a:139:LEU:HD12	12:6a:170:VAL:HG22	1.77	0.65
12:7g:135:VAL:HG21	12:7g:152:ILE:HD11	1.77	0.65
12:8a:178:THR:N	12:8a:181:GLU:OE2	2.25	0.65
13:8f:319:TYR:HB3	13:8f:323:VAL:HG21	1.78	0.65
13:8h:319:TYR:HB3	13:8h:323:VAL:HG21	1.78	0.65
13:Bf:269:LEU:HB2	13:Bf:379:SER:HB3	1.77	0.65
1:0W:311:LEU:HD21	1:0W:352:LEU:HA	1.77	0.65
1:0K:218:VAL:CG1	1:0K:255:LYS:HB3	2.26	0.65
1:0A:21:VAL:HG22	1:0A:49:LEU:HD13	1.78	0.65
1:0A:311:LEU:HD21	47:6A:270:VAL:HG21	1.79	0.65
1:0C:52:ASP:H	1:0C:58:GLN:NE2	1.93	0.65
1:0N:52:ASP:H	1:0N:58:GLN:NE2	1.89	0.65
1:0O:46:LEU:HB3	1:0O:65:LEU:HD21	1.79	0.65
1:0P:91:SER:HA	1:0P:99:TYR:CE2	2.31	0.65
1:0V:219:ILE:CG1	1:0V:255:LYS:HD3	2.25	0.65
12:1e:73:MET:HA	12:1e:76:VAL:HG12	1.78	0.65
23:2Q:81:UNK:HA	12:3e:306:ARG:NH2	2.12	0.65
24:2V:140:PRO:HG2	13:Cf:117:LEU:HD21	1.77	0.65
30:3G:635:ARG:HH22	12:7e:413:SER:HB2	1.60	0.65
34:3N:398:ARG:O	34:3N:401:VAL:N	2.28	0.65
12:3a:208:TYR:HA	12:3a:211:CYS:SG	2.37	0.65
37:4E:1159:ASP:CG	38:4O:17:LEU:HB3	2.21	0.65
37:4F:1082:LEU:CG	38:4N:39:HIS:CA	2.61	0.65
37:4H:918:GLN:HE22	37:4H:1475:LEU:HA	1.62	0.65
39:4R:171:SER:O	39:4R:172:THR:OG1	2.10	0.65
40:4T:64:PRO:HG2	44:5S:30:THR:HG21	1.78	0.65
13:4d:101:ASN:HA	13:4d:144:GLY:H	1.61	0.65
42:5H:85:CYS:HA	42:5H:137:TYR:CE1	2.32	0.65
42:5H:143:VAL:CG2	43:5L:147:THR:H	2.04	0.65
13:5f:178:SER:OG	12:5g:347:ASN:ND2	2.29	0.65
13:5h:101:ASN:HA	13:5h:144:GLY:H	1.61	0.65
47:6A:205:ARG:HD3	47:6A:209:MET:HE2	1.79	0.65
49:6G:239:LYS:HE3	49:6G:244:GLN:HG2	1.78	0.65
49:6H:239:LYS:HE3	49:6H:244:GLN:HG2	1.78	0.65
50:6K:538:LEU:O	50:6K:542:VAL:HG13	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6M:1264:MET:HE3	51:6M:1265:PRO:HD2	1.78	0.65
12:6g:178:THR:OG1	12:6g:181:GLU:HG3	1.95	0.65
13:7d:319:TYR:HB3	13:7d:323:VAL:HG21	1.78	0.65
13:8b:319:TYR:HB3	13:8b:323:VAL:HG21	1.78	0.65
12:9a:382:SER:O	12:9a:386:THR:HG23	1.96	0.65
12:9c:261:PRO:O	12:9c:262:ARG:HG2	1.97	0.65
13:9f:269:LEU:HB2	13:9f:379:SER:HB3	1.77	0.65
13:Bh:319:TYR:HB3	13:Bh:323:VAL:HG21	1.78	0.65
12:Ce:70:PRO:HB2	13:Cf:1:MET:HE2	1.77	0.65
12:Dc:261:PRO:O	12:Dc:262:ARG:HG2	1.96	0.65
1:0C:85:LEU:HD21	1:0C:121:VAL:HA	1.78	0.65
1:0F:261:LYS:HZ2	39:4Q:136:LEU:HD22	1.61	0.65
1:0M:214:LEU:HD22	1:0M:229:VAL:HG12	1.78	0.65
1:0N:128:ASP:HA	1:0N:131:VAL:HG22	1.79	0.65
1:0N:169:VAL:HB	32:3J:25:ASN:HD21	1.59	0.65
1:0Q:272:ALA:HA	1:0Q:298:LEU:HD11	1.78	0.65
1:1C:159:LEU:O	1:1C:163:VAL:HG23	1.97	0.65
3:1H:1007:ARG:HD3	3:1H:1009:ARG:NE	2.12	0.65
6:1N:606:ALA:C	6:1N:641:TRP:HH2	2.05	0.65
6:1N:1192:MET:O	6:1N:1195:VAL:HG22	1.97	0.65
10:1R:393:ALA:O	13:Ab:123:ARG:NH2	2.29	0.65
10:1S:365:VAL:H	12:Bg:337:ASN:HD21	1.45	0.65
10:1S:446:CYS:HA	12:Be:361:LEU:HD21	1.79	0.65
12:1c:67:ASP:OD2	12:1c:72:THR:OG1	2.15	0.65
13:1h:283:HIS:HB3	12:De:86:ARG:HD2	1.77	0.65
30:3F:437:ILE:HG21	13:7d:159:VAL:CG2	2.27	0.65
34:3O:281:GLN:HE22	34:3T:199:ASP:HB2	1.62	0.65
34:3Q:251:LEU:HD13	34:3T:485:TYR:CZ	2.32	0.65
34:3R:393:ALA:O	34:3R:397:LEU:HG	1.95	0.65
34:3U:405:ALA:O	34:3U:408:ARG:HG2	1.96	0.65
34:3W:209:THR:HG23	34:3W:211:PRO:HD3	1.78	0.65
34:3W:244:ARG:HB2	34:3Y:113:GLU:HG3	1.77	0.65
34:3Z:460:ARG:O	34:3Z:464:LEU:HG	1.97	0.65
12:3a:391:ARG:HG3	13:3b:346:TRP:HB3	1.77	0.65
13:3d:101:ASN:HA	13:3d:144:GLY:H	1.61	0.65
13:3d:238:LEU:HD21	13:3d:378:ILE:HD11	1.77	0.65
13:3h:319:TYR:HB3	13:3h:323:VAL:HG21	1.78	0.65
35:4C:568:ARG:CZ	35:4C:572:GLU:O	2.45	0.65
37:4E:589:PRO:C	43:5L:20:HIS:CA	2.69	0.65
37:4E:1108:PHE:N	37:4E:1108:PHE:CD1	2.62	0.65
37:4E:1332:SER:OG	37:4E:1749:LEU:HB2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1081:HIS:ND1	37:4G:1338:PHE:CZ	2.64	0.65
37:4H:540:VAL:HB	38:4M:72:ARG:NH1	2.12	0.65
37:4H:1332:SER:CB	37:4H:1342:LEU:CD2	2.73	0.65
37:4H:1341:ILE:CG2	38:4M:31:ALA:HB2	2.26	0.65
38:4J:25:PRO:HA	38:4J:28:VAL:H	1.61	0.65
38:4K:75:ASN:OD1	38:4N:57:VAL:CG1	2.44	0.65
40:4V:80:MET:HE1	40:4V:835:ARG:HB3	1.79	0.65
13:4d:319:TYR:HB3	13:4d:323:VAL:HG21	1.78	0.65
13:4f:238:LEU:HD21	13:4f:378:ILE:HD11	1.77	0.65
13:4h:101:ASN:HA	13:4h:144:GLY:H	1.61	0.65
42:5H:56:TYR:CE2	43:5L:141:LEU:CD2	2.63	0.65
13:5b:319:TYR:HB3	13:5b:323:VAL:HG21	1.78	0.65
47:6B:399:LYS:CB	3:6D:991:ILE:HG12	2.27	0.65
47:6B:1013:ALA:HA	47:6B:1016:LEU:HD12	1.77	0.65
49:6H:295:THR:O	49:6H:296:GLU:HB2	1.97	0.65
49:6I:117:ILE:HG23	49:6I:136:MET:HE2	1.77	0.65
50:6K:150:VAL:HB	50:6K:154:PHE:CZ	2.31	0.65
50:6L:538:LEU:O	50:6L:542:VAL:HG13	1.97	0.65
12:6e:33:THR:O	12:6e:58:ARG:NH1	2.30	0.65
13:8d:319:TYR:HB3	13:8d:323:VAL:HG21	1.78	0.65
12:Dg:261:PRO:O	12:Dg:262:ARG:HG2	1.96	0.65
1:0H:128:ASP:HA	1:0H:131:VAL:HG22	1.78	0.65
1:0H:286:ALA:HB1	1:0H:320:ILE:HG12	1.77	0.65
1:0A:88:LEU:O	1:0A:91:SER:HB3	1.96	0.65
1:0B:262:PHE:HE2	1:0B:264:ASP:HB3	1.61	0.65
1:0E:206:VAL:HG21	1:0E:243:LEU:HD22	1.78	0.65
1:0R:72:SER:HB3	1:0R:75:LEU:HG	1.78	0.65
1:0U:358:TRP:HB2	1:0U:399:LYS:HD2	1.78	0.65
1:0Y:383:LEU:HB3	1:0Y:400:CYS:SG	2.37	0.65
1:1A:380:LEU:O	1:1A:384:VAL:HG23	1.96	0.65
1:1C:248:VAL:HG21	1:1C:285:LEU:HD22	1.77	0.65
3:1I:584:ARG:NH1	3:1I:616:TYR:OH	2.30	0.65
12:1c:11:GLN:HE22	13:1d:249:ASN:H	1.42	0.65
12:1e:70:PRO:HB2	13:1f:1:MET:HE2	1.77	0.65
24:2U:129:SER:HB2	24:2U:151:PHE:HA	1.78	0.65
32:3K:155:ARG:CG	32:3K:243:PHE:HB2	2.26	0.65
34:3P:471:ARG:HG2	34:3P:475:MET:HE2	1.77	0.65
36:4D:139:ARG:NH1	36:4D:140:ARG:HE	1.94	0.65
37:4E:581:LEU:HD21	43:5L:33:LEU:HB3	1.79	0.65
37:4E:589:PRO:CD	43:5L:20:HIS:C	2.70	0.65
37:4G:974:VAL:HG12	37:4G:975:VAL:HG13	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1093:VAL:HG21	38:4L:35:ALA:HB3	1.78	0.65
37:4G:1341:ILE:HB	38:4L:27:ALA:CB	2.24	0.65
37:4H:1093:VAL:HG23	38:4M:35:ALA:HB2	1.78	0.65
38:4M:29:LYS:HB3	38:4M:32:GLU:HG2	1.76	0.65
38:4N:29:LYS:HB3	38:4N:32:GLU:HG2	1.76	0.65
38:4N:40:LYS:HZ2	38:4N:44:LEU:HB2	1.61	0.65
38:4O:24:THR:O	38:4O:28:VAL:HG23	1.95	0.65
40:4T:455:THR:O	40:4T:455:THR:OG1	2.14	0.65
40:4U:80:MET:HE1	40:4U:835:ARG:HB3	1.79	0.65
13:4b:238:LEU:HD21	13:4b:378:ILE:HD11	1.77	0.65
13:4f:319:TYR:HB3	13:4f:323:VAL:HG21	1.78	0.65
42:5H:85:CYS:C	43:5L:47:LYS:HE3	2.21	0.65
43:5I:55:TYR:CB	43:5I:76:PHE:HE2	2.10	0.65
47:6B:205:ARG:HD3	47:6B:209:MET:HE2	1.79	0.65
48:6E:737:ARG:HB3	49:6G:14:LYS:HZ1	1.62	0.65
48:6F:876:ALA:HB1	48:6F:923:ARG:HA	1.77	0.65
49:6J:323:LEU:HA	49:6J:326:GLU:OE1	1.97	0.65
13:6d:319:TYR:HB3	13:6d:323:VAL:HG21	1.78	0.65
12:7a:60:VAL:HG11	12:7a:86:ARG:NH2	2.12	0.65
12:7c:261:PRO:O	12:7c:262:ARG:HG2	1.97	0.65
13:7f:319:TYR:HB3	13:7f:323:VAL:HG21	1.78	0.65
12:8a:239:CYS:HB3	12:8a:247:ASN:OD1	1.97	0.65
12:8c:261:PRO:O	12:8c:262:ARG:HG2	1.97	0.65
13:8f:73:THR:OG1	12:8g:247:ASN:ND2	2.29	0.65
13:9d:319:TYR:HB3	13:9d:323:VAL:HG21	1.78	0.65
12:9g:417:ASP:O	12:9g:421:GLU:HG2	1.95	0.65
13:Af:319:TYR:HB3	13:Af:323:VAL:HG21	1.78	0.65
13:Bf:319:TYR:HB3	13:Bf:323:VAL:HG21	1.78	0.65
12:Bg:261:PRO:O	12:Bg:262:ARG:HG2	1.96	0.65
13:Bh:101:ASN:HA	13:Bh:144:GLY:H	1.61	0.65
13:Cd:101:ASN:HA	13:Cd:144:GLY:H	1.61	0.65
12:Ce:33:THR:O	12:Ce:58:ARG:NH1	2.30	0.65
1:0J:119:GLN:HB2	1:0J:159:LEU:HD11	1.78	0.65
1:0C:85:LEU:HD11	1:0C:107:LEU:HD23	1.78	0.65
1:0D:4:ARG:CZ	13:Dh:196:GLU:OE2	2.45	0.65
1:0N:167:GLY:O	1:0N:169:VAL:N	2.26	0.65
1:0T:85:LEU:HD21	1:0T:121:VAL:HA	1.78	0.65
1:0X:182:SER:O	1:0X:186:ILE:HG12	1.95	0.65
1:1B:370:HIS:O	1:1B:374:VAL:HG23	1.97	0.65
2:1E:315:CYS:SG	2:1E:354:THR:HG23	2.36	0.65
10:1R:291:GLY:O	10:1R:295:MET:HG2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1S:373:SER:OG	13:Bf:220:GLU:OE2	2.11	0.65
12:1a:323:THR:HA	12:1a:326:VAL:HG12	1.79	0.65
12:1g:67:ASP:OD2	12:1g:72:THR:OG1	2.15	0.65
14:2G:18:THR:HG22	14:2G:20:ALA:H	1.60	0.65
24:2T:198:PHE:CE2	24:2T:202:ARG:HD2	2.32	0.65
24:2T:206:ALA:HA	24:2T:209:TYR:HD2	1.61	0.65
24:2U:136:PRO:HA	13:Cd:96:LYS:HD2	1.79	0.65
24:2U:138:ASP:HB2	13:Dd:214:ARG:HE	1.62	0.65
24:2V:132:ARG:NH1	24:2V:145:TRP:CE2	2.65	0.65
28:3C:528:ALA:HB2	13:4h:309:HIS:HA	1.79	0.65
30:3F:289:ARG:HG2	30:3F:293:LYS:HD2	1.78	0.65
34:3M:107:TYR:O	34:3M:111:ILE:HG13	1.96	0.65
34:3M:327:VAL:HG13	34:3M:400:LEU:HG	1.78	0.65
13:3b:101:ASN:HA	13:3b:144:GLY:H	1.61	0.65
13:3f:238:LEU:HD21	13:3f:378:ILE:HD11	1.77	0.65
13:3h:101:ASN:HA	13:3h:144:GLY:H	1.60	0.65
37:4E:571:ASP:O	37:4E:575:SER:CB	2.44	0.65
37:4E:581:LEU:CB	43:5L:31:ASP:O	2.42	0.65
37:4E:1744:GLU:HB2	37:4E:1745:PRO:HD3	1.78	0.65
37:4F:1074:GLN:CA	38:4N:41:LYS:CD	2.51	0.65
37:4F:1082:LEU:CB	38:4N:38:VAL:O	2.38	0.65
37:4F:1094:ALA:H	37:4F:1135:PHE:HA	1.61	0.65
37:4F:1315:VAL:CB	37:4F:1323:ILE:HB	2.26	0.65
37:4F:1730:LEU:HD21	44:5U:25:LYS:HB2	1.79	0.65
37:4G:431:ALA:HB1	37:4G:434:TYR:CB	2.27	0.65
37:4H:1082:LEU:HD13	37:4H:1101:LEU:HD11	1.79	0.65
37:4H:1296:VAL:HB	37:4H:1756:PRO:HG3	1.77	0.65
37:4H:1333:VAL:HG23	37:4H:1341:ILE:O	1.97	0.65
38:4K:30:ALA:O	38:4K:34:ALA:N	2.28	0.65
38:4L:30:ALA:O	38:4L:34:ALA:N	2.27	0.65
38:4L:40:LYS:NZ	38:4L:44:LEU:HB2	2.11	0.65
38:4L:48:PRO:HD2	38:4L:49:ILE:HD12	1.79	0.65
13:4d:238:LEU:HD21	13:4d:378:ILE:HD11	1.77	0.65
42:5H:139:LEU:C	42:5H:141:GLN:N	2.55	0.65
43:5I:27:LEU:HD21	43:5I:32:LEU:HD13	1.78	0.65
43:5J:40:ASN:O	43:5J:41:ASP:HB2	1.96	0.65
13:5h:319:TYR:HB3	13:5h:323:VAL:HG21	1.78	0.65
47:6B:350:ARG:NH2	3:6D:526:ASP:OD2	2.29	0.65
49:6G:295:THR:O	49:6G:296:GLU:HB2	1.97	0.65
49:6H:205:LEU:H	49:6H:305:LYS:HZ1	1.45	0.65
49:6I:323:LEU:HA	49:6I:326:GLU:OE1	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:6L:150:VAL:HB	50:6L:154:PHE:CZ	2.31	0.65
51:6M:2046:LEU:HD22	51:6M:2059:LEU:HD13	1.79	0.65
12:6a:311:LEU:HD11	12:6a:372:THR:HG23	1.77	0.65
12:6g:261:PRO:O	12:6g:262:ARG:HG2	1.96	0.65
13:7b:238:LEU:HD21	13:7b:378:ILE:HD11	1.77	0.65
13:7b:319:TYR:HB3	13:7b:323:VAL:HG21	1.78	0.65
12:8c:274:THR:HG22	12:8c:282:ARG:HD3	1.77	0.65
13:8f:101:ASN:HA	13:8f:144:GLY:H	1.61	0.65
13:9b:269:LEU:HB2	13:9b:379:SER:HB3	1.77	0.65
12:Ae:87:PRO:HD3	12:Be:281:TYR:CG	2.31	0.65
1:0I:182:SER:O	1:0I:186:ILE:HG12	1.97	0.65
1:0A:47:ARG:HG3	1:0A:84:ILE:HG12	1.77	0.65
1:0A:147:TRP:HE1	1:0A:186:ILE:HG13	1.62	0.65
1:0E:52:ASP:H	1:0E:58:GLN:NE2	1.90	0.65
1:0P:407:VAL:O	1:0P:411:LEU:HB2	1.97	0.65
1:0Q:182:SER:O	1:0Q:186:ILE:HG12	1.97	0.65
1:0S:368:PRO:HG3	1:0S:410:LYS:HD2	1.78	0.65
1:0V:11:GLU:HG2	26:2Y:47:UNK:HA	1.79	0.65
1:0Y:4:ARG:HH22	13:Bb:424:ASP:HA	1.62	0.65
1:0Z:395:ASP:O	1:0Z:399:LYS:HG2	1.97	0.65
1:1A:411:LEU:HD21	1:1A:413:HIS:HB3	1.79	0.65
1:1C:217:LEU:HB2	1:1C:229:VAL:HG11	1.78	0.65
2:1G:5:THR:HG23	2:1G:8:LEU:HB2	1.77	0.65
7:1O:1190:LEU:O	7:1O:1194:ARG:HD2	1.96	0.65
14:2G:38:LYS:NZ	12:De:87:PRO:O	2.30	0.65
24:2T:199:ARG:HH21	24:2T:222:GLU:CD	2.05	0.65
24:2V:131:CYS:HB2	24:2V:134:VAL:HB	1.77	0.65
24:2V:143:SER:HB3	13:Cf:117:LEU:CD2	2.27	0.65
30:3F:301:VAL:HG13	13:6f:195:LEU:HD21	1.79	0.65
34:3O:99:ARG:O	34:3O:103:LEU:HG	1.95	0.65
34:3P:405:ALA:O	34:3P:408:ARG:HG2	1.96	0.65
34:3W:483:GLU:OE2	37:4H:760:PRO:HB3	1.96	0.65
13:3f:101:ASN:HA	13:3f:144:GLY:H	1.61	0.65
34:4B:503:ASN:HA	34:4B:506:GLU:OE1	1.96	0.65
36:4D:186:ILE:HD11	36:4D:197:LEU:HD23	1.79	0.65
37:4E:581:LEU:HD12	43:5L:33:LEU:CA	2.26	0.65
37:4E:584:ALA:HA	43:5L:36:TYR:CG	2.31	0.65
37:4F:1081:HIS:CE1	37:4F:1096:ALA:H	2.15	0.65
37:4F:1185:LEU:HD11	37:4F:1193:ARG:HB3	1.76	0.65
37:4F:1323:ILE:C	38:4N:26:GLU:CB	2.70	0.65
37:4G:918:GLN:HE22	37:4G:1475:LEU:HA	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:540:VAL:HG11	38:4M:72:ARG:HH11	1.61	0.65
37:4H:1323:ILE:HG21	38:4M:26:GLU:HG2	1.78	0.65
38:4L:54:GLU:HA	38:4L:58:VAL:HG22	1.79	0.65
40:4T:80:MET:HE1	40:4T:835:ARG:HB3	1.79	0.65
40:4T:359:GLU:O	40:4T:363:VAL:HG13	1.96	0.65
40:4U:455:THR:O	40:4U:455:THR:OG1	2.14	0.65
12:4e:278:SER:HA	12:4e:281:TYR:CD2	2.31	0.65
42:5H:158:MET:HG2	43:5L:158:HIS:ND1	2.12	0.65
13:5b:101:ASN:HA	13:5b:144:GLY:H	1.61	0.65
12:5e:60:VAL:HG11	12:5e:86:ARG:NE	2.11	0.65
47:6B:596:LEU:HD22	47:6B:602:PRO:HG3	1.77	0.65
12:7a:107:THR:O	12:7a:111:GLU:HG2	1.95	0.65
12:7c:397:TRP:NE1	13:7d:257:THR:HA	2.12	0.65
13:9f:319:TYR:HB3	13:9f:323:VAL:HG21	1.78	0.65
13:9h:319:TYR:HB3	13:9h:323:VAL:HG21	1.78	0.65
13:Ab:319:TYR:HB3	13:Ab:323:VAL:HG21	1.78	0.65
12:Ac:235:GLY:HA3	12:Ac:366:THR:HG21	1.77	0.65
13:Bb:269:LEU:HB2	13:Bb:379:SER:HB3	1.77	0.65
13:Cb:101:ASN:HA	13:Cb:144:GLY:H	1.61	0.65
12:Cg:87:PRO:HG2	12:Dg:278:SER:HB2	1.78	0.65
1:0H:407:VAL:O	1:0H:411:LEU:HB2	1.97	0.65
1:0B:368:PRO:HA	1:0B:410:LYS:HB3	1.78	0.65
1:1B:390:GLY:HA2	1:1B:397:LYS:HE2	1.79	0.65
3:1H:584:ARG:NH1	3:1H:616:TYR:OH	2.30	0.65
4:1J:267:GLU:HG3	4:1J:281:GLN:HG2	1.79	0.65
7:1O:2121:ARG:NH1	7:1O:2173:GLU:HG2	2.12	0.65
12:1e:362:LYS:CE	14:2F:22:PRO:HA	2.26	0.65
12:2g:178:THR:HG22	13:2h:352:LYS:HZ2	1.62	0.65
29:3E:1191:TRP:CZ2	13:5d:112:LYS:HE3	2.32	0.65
34:3O:47:ASN:HD21	34:3T:76:GLU:HB2	1.61	0.65
34:3P:396:ALA:O	34:3P:400:LEU:HG	1.96	0.65
34:3Q:506:GLU:O	34:3T:273:ARG:NH2	2.30	0.65
34:3W:107:TYR:CE2	34:3W:111:ILE:HD11	2.32	0.65
13:3b:238:LEU:HD21	13:3b:378:ILE:HD11	1.77	0.65
34:4B:352:LEU:CD1	34:4B:382:LEU:HD11	2.26	0.65
37:4E:581:LEU:N	43:5L:35:LYS:HD3	2.12	0.65
37:4E:581:LEU:CD2	43:5L:29:GLY:O	2.43	0.65
37:4E:583:GLU:CB	43:5L:36:TYR:CA	2.75	0.65
37:4G:1084:ARG:CA	38:4L:37:GLY:HA3	2.26	0.65
37:4H:1142:GLY:HA3	37:4H:1325:ARG:HH22	1.62	0.65
37:4H:1156:LEU:CD1	37:4H:1317:ASP:HB3	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4I:54:GLU:HA	38:4I:58:VAL:HG22	1.79	0.65
38:4K:77:VAL:CG2	38:4N:57:VAL:HG11	2.27	0.65
38:4M:40:LYS:NZ	38:4M:44:LEU:HB2	2.11	0.65
38:4N:25:PRO:HA	38:4N:28:VAL:H	1.61	0.65
38:4N:75:ASN:C	38:4N:77:VAL:H	2.05	0.65
39:4Q:171:SER:C	39:4Q:172:THR:HG1	2.05	0.65
40:4U:201:ASN:OD1	40:4U:256:ARG:HG3	1.96	0.65
41:4W:125:THR:HA	41:4W:134:TYR:O	1.97	0.65
12:4c:261:PRO:O	12:4c:262:ARG:HG2	1.96	0.65
43:5L:55:TYR:CB	43:5L:76:PHE:HE2	2.09	0.65
13:5d:101:ASN:HA	13:5d:144:GLY:H	1.61	0.65
50:6L:178:ASN:HB2	50:6L:181:THR:HG23	1.79	0.65
13:6b:319:TYR:HB3	13:6b:323:VAL:HG21	1.78	0.65
12:6e:3:GLU:HB2	12:6e:127:CYS:SG	2.37	0.65
13:6f:319:TYR:HB3	13:6f:323:VAL:HG21	1.78	0.65
13:6h:319:TYR:HB3	13:6h:323:VAL:HG21	1.78	0.65
13:7d:403:ALA:HB2	12:7e:344:TRP:CZ3	2.32	0.65
12:Aa:73:MET:HA	12:Aa:76:VAL:HG12	1.79	0.65
13:Bb:319:TYR:HB3	13:Bb:323:VAL:HG21	1.78	0.65
12:Bg:91:VAL:HG11	12:Bg:116:VAL:HG22	1.78	0.65
13:Cb:178:SER:OG	12:Cc:347:ASN:ND2	2.30	0.65
13:Cf:406:HIS:CD2	12:Cg:261:PRO:HD3	2.31	0.65
1:0H:134:LEU:HG	1:0H:145:SER:OG	1.97	0.65
1:0I:272:ALA:HA	1:0I:298:LEU:HD11	1.79	0.65
1:0A:108:ARG:CZ	1:0A:147:TRP:HE3	2.10	0.64
1:0C:137:PHE:CE1	5:1M:91:THR:HA	2.32	0.64
1:0F:262:PHE:CD1	1:0F:263:PRO:HD2	2.32	0.64
1:0P:133:CYS:SG	1:0P:145:SER:HB2	2.36	0.64
1:0R:256:ILE:HG23	1:0R:271:SER:HB3	1.79	0.64
1:0V:282:THR:HB	1:0V:285:LEU:HB2	1.79	0.64
1:0X:70:ASN:OD1	1:0X:112:ARG:NH2	2.30	0.64
1:0X:70:ASN:HA	1:0X:113:HIS:NE2	2.12	0.64
4:1J:124:LEU:HG	4:1J:175:CYS:SG	2.37	0.64
4:1J:206:ALA:HB1	4:1J:319:SER:HB3	1.78	0.64
4:1K:124:LEU:HG	4:1K:175:CYS:SG	2.37	0.64
4:1K:150:THR:O	12:Be:425:TYR:OH	2.14	0.64
4:1K:267:GLU:HG3	4:1K:281:GLN:HG2	1.79	0.64
5:1L:492:PHE:HB2	12:1c:406:MET:HE2	1.79	0.64
6:1N:1988:PHE:CE2	6:1N:2004:ILE:HG21	2.32	0.64
6:1N:2424:GLU:HA	6:1N:2427:LEU:HG	1.78	0.64
14:2F:18:THR:HG22	14:2F:20:ALA:H	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2T:126:ASN:HD22	24:2T:132:ARG:HA	1.63	0.64
32:3K:222:ILE:HB	32:3K:236:CYS:SG	2.37	0.64
34:3R:103:LEU:HD11	34:3R:390:LEU:HD13	1.79	0.64
34:3T:398:ARG:O	34:3T:401:VAL:N	2.29	0.64
34:3U:122:GLN:HE21	34:3U:368:LEU:HB3	1.62	0.64
34:3U:327:VAL:HA	34:3U:330:GLU:OE1	1.96	0.64
34:3X:71:LEU:HB3	34:3X:419:LEU:HD11	1.79	0.64
12:3a:186:THR:HG21	12:3a:385:PHE:CD1	2.31	0.64
37:4E:546:SER:HB3	42:5H:112:THR:H	1.60	0.64
37:4E:935:ARG:NH2	38:4P:72:ARG:HB2	2.13	0.64
37:4G:1082:LEU:CG	38:4L:39:HIS:CB	2.74	0.64
37:4H:953:PRO:HB2	38:4M:44:LEU:O	1.95	0.64
37:4H:1169:VAL:HG13	37:4H:1195:ARG:NH2	2.11	0.64
38:4I:48:PRO:HD2	38:4I:49:ILE:HD12	1.79	0.64
38:4J:54:GLU:HA	38:4J:58:VAL:HG22	1.79	0.64
38:4M:48:PRO:HD2	38:4M:49:ILE:HD12	1.79	0.64
38:4M:57:VAL:O	38:4M:60:VAL:N	2.23	0.64
12:4e:248:ALA:HA	12:4e:252:LYS:HD3	1.78	0.64
13:4h:319:TYR:HB3	13:4h:323:VAL:HG21	1.78	0.64
41:5A:21:GLY:HA3	43:5L:187:GLU:O	1.96	0.64
43:5J:55:TYR:CB	43:5J:76:PHE:HE2	2.10	0.64
43:5L:46:PRO:HA	43:5L:49:ALA:HB3	1.79	0.64
12:5a:139:LEU:HD12	12:5a:170:VAL:HG22	1.80	0.64
12:5e:73:MET:HA	12:5e:76:VAL:HG12	1.77	0.64
12:6c:284:LEU:HD22	12:6c:362:LYS:HD3	1.79	0.64
12:6c:317:PHE:HB3	12:6c:321:MET:HE1	1.80	0.64
13:7b:101:ASN:HA	13:7b:144:GLY:H	1.60	0.64
13:7h:101:ASN:HA	13:7h:144:GLY:H	1.61	0.64
13:8d:101:ASN:HA	13:8d:144:GLY:H	1.61	0.64
13:8f:403:ALA:HB2	12:8g:344:TRP:HZ3	1.61	0.64
13:8h:301:MET:HE3	13:8h:307:PRO:HG2	1.80	0.64
12:9e:207:LEU:HB3	12:9e:225:LEU:HD22	1.79	0.64
13:9h:269:LEU:HB2	13:9h:379:SER:HB3	1.77	0.64
12:Ac:177:ASP:N	12:Ac:181:GLU:OE2	2.31	0.64
13:Ad:319:TYR:HB3	13:Ad:323:VAL:HG21	1.78	0.64
13:Bd:319:TYR:HB3	13:Bd:323:VAL:HG21	1.78	0.64
12:Bg:67:ASP:OD2	12:Bg:72:THR:OG1	2.14	0.64
12:Ca:33:THR:O	12:Ca:58:ARG:NH1	2.30	0.64
13:Db:301:MET:HE3	13:Db:307:PRO:HG2	1.80	0.64
12:De:208:TYR:CZ	12:De:225:LEU:HD11	2.33	0.64
13:Df:301:MET:HE3	13:Df:307:PRO:HG2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0W:363:ILE:HG22	1:0W:370:HIS:HB3	1.78	0.64
1:0L:72:SER:HB3	1:0L:75:LEU:HG	1.79	0.64
1:0Z:337:LEU:O	1:0Z:341:VAL:HG23	1.96	0.64
1:1B:380:LEU:HD22	1:1B:404:LEU:HD23	1.78	0.64
2:1D:320:PRO:HB2	2:1D:361:ALA:HB3	1.78	0.64
2:1E:320:PRO:HB2	2:1E:361:ALA:HB3	1.77	0.64
10:1R:409:TYR:HB2	13:Bb:326:LYS:CE	2.27	0.64
32:3J:193:PRO:HG2	32:3J:206:VAL:HA	1.80	0.64
34:3N:334:LEU:O	34:3N:338:LEU:HD23	1.96	0.64
34:3P:474:TRP:HH2	34:3S:493:LYS:HA	1.60	0.64
34:3Q:294:HIS:NE2	34:3Q:437:GLY:HA3	2.12	0.64
34:3S:398:ARG:O	34:3S:401:VAL:N	2.28	0.64
34:3Z:276:GLU:HG2	34:3Z:456:LEU:HB2	1.78	0.64
34:3Z:352:LEU:O	34:3Z:356:PHE:HD2	1.80	0.64
34:4A:366:VAL:HG11	37:4F:908:ALA:HB2	1.79	0.64
35:4C:956:MET:HG2	37:4E:699:PHE:CE2	2.32	0.64
37:4E:570:LEU:HB3	37:4E:574:LEU:HD12	1.80	0.64
37:4F:538:GLU:O	37:4F:542:ARG:HG2	1.96	0.64
37:4F:958:LEU:HG	37:4F:971:ALA:H	1.63	0.64
37:4F:970:SER:N	37:4F:1074:GLN:O	2.30	0.64
37:4F:972:PHE:CZ	38:4N:44:LEU:HD13	2.31	0.64
37:4F:1138:VAL:O	37:4F:1143:LEU:O	2.14	0.64
37:4F:1315:VAL:CG1	37:4F:1323:ILE:HB	2.27	0.64
37:4H:1092:LEU:H	38:4M:35:ALA:N	1.95	0.64
37:4H:1094:ALA:O	37:4H:1338:PHE:HZ	1.80	0.64
40:4V:201:ASN:OD1	40:4V:256:ARG:HG3	1.96	0.64
13:4h:301:MET:HE3	13:4h:307:PRO:HG2	1.80	0.64
42:5F:80:GLY:O	42:5F:83:GLN:HB2	1.97	0.64
47:6A:439:TYR:HE1	47:6A:840:LEU:HB3	1.63	0.64
47:6A:596:LEU:HD22	47:6A:602:PRO:HG3	1.77	0.64
47:6B:569:ILE:O	47:6B:573:LEU:HG	1.97	0.64
13:7d:407:TRP:NE1	12:7e:258:ILE:O	2.30	0.64
13:8b:101:ASN:HA	13:8b:144:GLY:H	1.61	0.64
13:8d:301:MET:HE3	13:8d:307:PRO:HG2	1.80	0.64
12:8e:73:MET:HE3	12:8e:92:PHE:HB3	1.80	0.64
13:8f:301:MET:HE3	13:8f:307:PRO:HG2	1.80	0.64
12:9c:91:VAL:HG21	12:9c:116:VAL:HG12	1.79	0.64
13:Dd:301:MET:HE3	13:Dd:307:PRO:HG2	1.80	0.64
13:Dh:301:MET:HE3	13:Dh:307:PRO:HG2	1.80	0.64
13:Dh:399:TYR:O	13:Dh:402:ARG:NH1	2.31	0.64
1:0B:368:PRO:HG3	1:0B:410:LYS:HD2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0U:368:PRO:HG3	1:0U:410:LYS:HD2	1.80	0.64
1:1B:101:GLN:HE21	1:1B:141:VAL:HG22	1.61	0.64
14:2G:124:ASP:OD2	14:2G:125:THR:N	2.31	0.64
24:2U:138:ASP:CB	13:Dd:214:ARG:HE	2.10	0.64
32:3J:352:ALA:HB1	12:9a:413:SER:HB2	1.79	0.64
34:3V:98:GLY:O	34:3V:102:GLN:HG2	1.98	0.64
34:3Z:71:LEU:HB3	34:3Z:419:LEU:HD11	1.79	0.64
34:4B:248:PHE:HB3	34:4B:251:LEU:HD13	1.79	0.64
35:4C:315:VAL:O	35:4C:354:ALA:HA	1.97	0.64
37:4E:574:LEU:HG	42:5H:126:ALA:HB1	1.79	0.64
37:4E:1736:ARG:HD3	37:4E:1739:GLN:NE2	2.13	0.64
37:4F:918:GLN:HE22	37:4F:1475:LEU:HA	1.62	0.64
37:4F:1334:GLU:CB	37:4F:1340:PRO:HB3	2.21	0.64
37:4G:974:VAL:HG12	37:4G:975:VAL:N	2.07	0.64
37:4H:1333:VAL:HG12	38:4M:28:VAL:N	2.13	0.64
38:4J:57:VAL:O	38:4J:60:VAL:N	2.23	0.64
38:4N:32:GLU:HG3	38:4N:33:LYS:NZ	2.11	0.64
40:4U:359:GLU:O	40:4U:363:VAL:HG13	1.96	0.64
13:4f:301:MET:HE3	13:4f:307:PRO:HG2	1.80	0.64
42:5H:137:TYR:CD1	43:5L:46:PRO:C	2.74	0.64
42:5H:138:ARG:HA	43:5L:47:LYS:CB	2.24	0.64
43:5K:55:TYR:CB	43:5K:76:PHE:HE2	2.09	0.64
43:5L:27:LEU:HD21	43:5L:32:LEU:HD13	1.78	0.64
43:5L:40:ASN:O	43:5L:41:ASP:HB2	1.96	0.64
13:5f:319:TYR:HB3	13:5f:323:VAL:HG21	1.78	0.64
47:6A:569:ILE:O	47:6A:573:LEU:HG	1.97	0.64
47:6B:35:PHE:CB	47:6B:41:GLN:HG2	2.27	0.64
47:6B:439:TYR:HE1	47:6B:840:LEU:HB3	1.63	0.64
48:6F:607:HIS:NE2	48:6F:622:ASP:OD2	2.28	0.64
49:6J:295:THR:O	49:6J:296:GLU:HB2	1.97	0.64
50:6K:304:THR:HG23	50:6K:307:ARG:H	1.63	0.64
50:6K:448:VAL:HG23	50:6K:462:LEU:HB3	1.78	0.64
50:6L:304:THR:HG23	50:6L:307:ARG:H	1.63	0.64
13:6d:100:ALA:HA	12:6e:252:LYS:HG2	1.80	0.64
13:8b:301:MET:HE3	13:8b:307:PRO:HG2	1.80	0.64
12:Ac:261:PRO:O	12:Ac:262:ARG:HG2	1.96	0.64
12:Ce:247:ASN:O	12:Ce:252:LYS:NZ	2.31	0.64
1:0A:90:TYR:HE2	47:6B:110:LYS:HG2	1.62	0.64
1:0B:320:ILE:HB	1:0B:327:LEU:HD22	1.79	0.64
1:0C:395:ASP:O	1:0C:399:LYS:HG2	1.97	0.64
1:0E:167:GLY:O	1:0E:169:VAL:N	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0F:134:LEU:HB2	1:0F:171:LEU:HD13	1.80	0.64
1:0M:164:VAL:HG21	1:0M:201:LEU:HD22	1.79	0.64
1:0N:33:ASN:O	1:0N:37:LEU:HG	1.97	0.64
1:0R:143:GLU:OE2	1:0R:182:SER:HB2	1.96	0.64
1:0R:320:ILE:HG22	1:0R:327:LEU:HB3	1.79	0.64
1:1B:162:GLN:HA	1:1B:165:ASP:OD2	1.96	0.64
1:1C:45:LEU:O	1:1C:49:LEU:HD23	1.97	0.64
3:1I:242:GLN:NE2	3:1I:496:VAL:HG22	2.12	0.64
4:1K:206:ALA:HB1	4:1K:319:SER:HB3	1.78	0.64
7:1O:2270:LEU:HB3	7:1O:2359:MET:HE2	1.79	0.64
10:1S:398:VAL:HG13	13:Af:123:ARG:NH2	2.12	0.64
14:2F:124:ASP:OD2	14:2F:125:THR:N	2.31	0.64
13:2b:319:TYR:HB3	13:2b:323:VAL:HG21	1.78	0.64
13:2d:399:TYR:O	13:2d:402:ARG:NH1	2.31	0.64
32:3J:161:GLU:HG2	32:3J:211:CYS:HB3	1.78	0.64
34:3N:266:HIS:O	34:3N:270:ILE:HG12	1.97	0.64
34:3P:83:GLU:O	34:3P:86:GLN:HG2	1.98	0.64
34:3U:86:GLN:OE1	34:3U:408:ARG:NH2	2.31	0.64
34:3V:507:VAL:HG12	34:3X:460:ARG:HE	1.62	0.64
12:3c:261:PRO:O	12:3c:262:ARG:HG2	1.96	0.64
12:3e:267:MET:HE1	12:3e:305:PRO:HG3	1.78	0.64
34:4B:107:TYR:CE2	34:4B:111:ILE:HD11	2.32	0.64
35:4C:790:LEU:HB3	35:4C:880:VAL:HG21	1.78	0.64
36:4D:179:SER:HA	36:4D:236:HIS:HE1	1.61	0.64
37:4E:536:LEU:HD21	38:4O:58:VAL:HG13	1.78	0.64
37:4E:583:GLU:CA	43:5L:38:GLY:N	2.60	0.64
37:4G:828:VAL:HG13	37:4G:856:MET:HB2	1.79	0.64
37:4G:1084:ARG:CB	38:4L:37:GLY:HA2	2.27	0.64
37:4H:1101:LEU:HD22	38:4M:39:HIS:CE1	2.33	0.64
37:4H:1730:LEU:HD21	44:5T:25:LYS:HB2	1.79	0.64
38:4L:30:ALA:C	38:4L:33:LYS:N	2.52	0.64
39:4S:67:TRP:HA	44:5R:149:MET:CE	2.27	0.64
40:4T:533:PRO:HB3	40:4T:614:LEU:HD22	1.79	0.64
40:4V:533:PRO:HB3	40:4V:614:LEU:HD22	1.79	0.64
13:4b:301:MET:HE3	13:4b:307:PRO:HG2	1.80	0.64
13:4d:301:MET:HE3	13:4d:307:PRO:HG2	1.80	0.64
12:4g:417:ASP:O	12:4g:421:GLU:HG2	1.97	0.64
47:6A:35:PHE:CB	47:6A:41:GLN:HG2	2.27	0.64
47:6B:1197:PHE:HE2	47:6B:1472:LEU:HD13	1.62	0.64
3:6D:69:LEU:HD13	3:6D:122:MET:HE1	1.78	0.64
50:6L:313:MET:HE1	50:6L:355:LEU:HD11	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6M:1344:LYS:HE2	51:6M:1346:LEU:HD21	1.80	0.64
51:6N:1344:LYS:HE2	51:6N:1346:LEU:HD21	1.80	0.64
13:6f:273:ALA:O	13:6f:375:VAL:N	2.27	0.64
12:Ba:175:VAL:HG21	13:Bb:332:VAL:CG1	2.28	0.64
12:Da:106:TYR:HB2	12:Da:401:GLU:OE2	1.98	0.64
1:0H:85:LEU:HD11	1:0H:107:LEU:HD23	1.79	0.64
1:0A:70:ASN:OD1	1:0A:112:ARG:NH2	2.29	0.64
1:0B:206:VAL:HG21	1:0B:243:LEU:HD22	1.79	0.64
1:0D:411:LEU:HD21	1:0D:413:HIS:HB3	1.80	0.64
1:0O:72:SER:HB3	1:0O:75:LEU:HG	1.79	0.64
1:0T:167:GLY:O	1:0T:169:VAL:N	2.28	0.64
1:0X:14:GLN:O	1:0X:18:VAL:HG23	1.98	0.64
1:0X:108:ARG:CZ	1:0X:147:TRP:HE3	2.10	0.64
1:0X:248:VAL:HG11	1:0X:285:LEU:HG	1.78	0.64
3:1H:242:GLN:NE2	3:1H:496:VAL:HG22	2.12	0.64
24:2V:126:ASN:ND2	24:2V:132:ARG:HA	2.13	0.64
13:2b:399:TYR:O	13:2b:402:ARG:NH1	2.31	0.64
13:2f:319:TYR:HB3	13:2f:323:VAL:HG21	1.78	0.64
13:2h:319:TYR:HB3	13:2h:323:VAL:HG21	1.78	0.64
34:3Q:254:MET:HG2	34:3Q:477:GLU:OE1	1.98	0.64
34:3S:494:GLN:O	34:3S:498:LEU:HG	1.98	0.64
34:3V:106:ASP:O	34:3V:110:LEU:HG	1.96	0.64
12:3c:248:ALA:HA	12:3c:252:LYS:HE3	1.80	0.64
13:3f:301:MET:HE3	13:3f:307:PRO:HG2	1.80	0.64
37:4E:962:THR:HG21	38:4P:69:CYS:O	1.98	0.64
37:4F:510:HIS:NE2	38:4N:70:LYS:CE	2.48	0.64
37:4F:671:LEU:CD1	38:4K:39:HIS:HB3	2.24	0.64
37:4F:1082:LEU:CB	37:4F:1082:LEU:HD23	2.27	0.64
37:4F:1093:VAL:HG23	38:4N:37:GLY:H	1.60	0.64
37:4G:664:TYR:CD2	38:4I:43:ASN:ND2	2.65	0.64
37:4G:1083:ILE:HD12	38:4L:31:ALA:HB1	1.80	0.64
37:4H:1136:ARG:CB	38:4M:33:LYS:NZ	2.60	0.64
38:4M:47:ALA:HA	38:4M:50:ARG:HB3	1.80	0.64
38:4M:54:GLU:HA	38:4M:58:VAL:HG22	1.80	0.64
38:4N:40:LYS:NZ	38:4N:44:LEU:HB2	2.11	0.64
39:4S:171:SER:O	39:4S:172:THR:OG1	2.10	0.64
40:4T:201:ASN:OD1	40:4T:256:ARG:HG3	1.96	0.64
40:4V:667:LYS:HE2	40:4V:822:TRP:CZ3	2.33	0.64
42:5E:138:ARG:HH12	43:5I:30:ARG:NH2	1.92	0.64
47:6A:29:PHE:CD2	47:6A:47:PHE:HB3	2.32	0.64
47:6A:1197:PHE:HE2	47:6A:1472:LEU:HD13	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:1600:SER:HA	51:6M:2051:GLU:OE2	1.98	0.64
47:6B:29:PHE:CD2	47:6B:47:PHE:HB3	2.32	0.64
47:6B:1600:SER:HA	51:6N:2051:GLU:OE2	1.98	0.64
48:6F:1035:MET:O	48:6F:1041:LYS:NZ	2.30	0.64
49:6H:323:LEU:HA	49:6H:326:GLU:OE1	1.97	0.64
50:6K:178:ASN:HB2	50:6K:181:THR:HG23	1.79	0.64
12:6g:55:THR:HG21	12:7g:284:LEU:HD13	1.80	0.64
13:8b:399:TYR:O	13:8b:402:ARG:NH1	2.31	0.64
12:Be:99:ASN:HB2	13:Bf:258:ASN:HD21	1.62	0.64
12:Cg:391:ARG:NH2	13:Ch:438:GLU:O	2.30	0.64
1:0A:108:ARG:HD3	1:0A:147:TRP:CB	2.26	0.64
1:0A:178:GLU:OE2	4:1J:146:ASN:ND2	2.31	0.64
1:0C:88:LEU:O	1:0C:91:SER:HB3	1.98	0.64
1:0E:262:PHE:HE2	1:0E:264:ASP:HB2	1.62	0.64
1:0F:219:ILE:HG12	1:0F:255:LYS:HG2	1.80	0.64
1:0L:278:VAL:HG13	1:0L:285:LEU:HD23	1.79	0.64
1:0S:358:TRP:HB2	1:0S:399:LYS:HD2	1.80	0.64
1:0T:282:THR:HB	1:0T:285:LEU:HB2	1.79	0.64
1:0X:147:TRP:HE1	1:0X:186:ILE:HG13	1.62	0.64
1:0Z:85:LEU:HD21	1:0Z:121:VAL:HA	1.79	0.64
1:0Z:195:SER:O	1:0Z:239:HIS:NE2	2.31	0.64
1:1B:80:VAL:HG22	1:1B:85:LEU:HD11	1.78	0.64
1:1C:143:GLU:HG3	1:1C:186:ILE:HG13	1.79	0.64
2:1D:315:CYS:SG	2:1D:354:THR:HG23	2.36	0.64
6:1N:2715:VAL:O	6:1N:2719:LEU:HG	1.96	0.64
10:1R:248:VAL:HG11	10:1R:255:LEU:HD13	1.80	0.64
10:1R:374:HIS:HE2	12:Ac:1:MET:HE1	1.63	0.64
13:1h:301:MET:HE3	13:1h:307:PRO:HG2	1.80	0.64
24:2U:209:TYR:OH	12:Cc:261:PRO:O	2.14	0.64
24:2V:131:CYS:HB3	24:2V:151:PHE:CD1	2.33	0.64
13:2d:319:TYR:HB3	13:2d:323:VAL:HG21	1.78	0.64
13:2f:399:TYR:O	13:2f:402:ARG:NH1	2.31	0.64
13:2h:399:TYR:O	13:2h:402:ARG:NH1	2.31	0.64
29:3E:1140:VAL:CG2	13:5f:264:ARG:HD3	2.27	0.64
30:3F:301:VAL:HG12	13:6f:264:ARG:NE	2.13	0.64
34:3M:494:GLN:O	34:3M:498:LEU:HG	1.97	0.64
34:3V:107:TYR:CE2	34:3V:111:ILE:HD11	2.33	0.64
34:3W:366:VAL:HG11	37:4G:908:ALA:HB2	1.80	0.64
34:3Z:496:TYR:HD2	34:3Z:497:MET:HE2	1.63	0.64
12:3a:213:ARG:HD3	12:3a:297:LYS:HD3	1.78	0.64
13:3b:301:MET:HE3	13:3b:307:PRO:HG2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4A:383:ARG:O	34:4A:387:VAL:HG23	1.98	0.64
34:4B:89:ILE:HG13	34:4B:404:HIS:ND1	2.13	0.64
37:4E:575:SER:N	43:5L:30:ARG:CD	2.60	0.64
37:4F:1072:ALA:CB	37:4F:1084:ARG:HE	2.11	0.64
37:4F:1332:SER:CA	38:4N:27:ALA:HB2	2.27	0.64
38:4J:25:PRO:CB	42:5F:96:ALA:HB1	2.25	0.64
38:4J:47:ALA:HA	38:4J:50:ARG:HB3	1.80	0.64
40:4T:667:LYS:HE2	40:4T:822:TRP:CZ3	2.33	0.64
40:4V:492:THR:HG23	40:4V:494:LEU:H	1.62	0.64
41:4W:22:THR:HA	41:4W:36:GLN:HA	1.79	0.64
42:5H:49:ILE:CG1	43:5L:144:TYR:HA	2.28	0.64
13:5d:319:TYR:HB3	13:5d:323:VAL:HG21	1.78	0.64
47:6B:1575:ARG:HG2	47:6B:1578:GLU:OE1	1.98	0.64
48:6E:607:HIS:NE2	48:6E:622:ASP:OD2	2.28	0.64
49:6I:295:THR:O	49:6I:296:GLU:HB2	1.97	0.64
50:6L:377:TYR:O	50:6L:381:VAL:HG23	1.97	0.64
13:7d:101:ASN:HA	13:7d:144:GLY:H	1.61	0.64
12:7e:135:VAL:HG11	12:7e:152:ILE:HD11	1.79	0.64
13:7f:101:ASN:HA	13:7f:144:GLY:H	1.60	0.64
12:8a:176:SER:HB3	12:8a:181:GLU:OE1	1.98	0.64
13:8d:399:TYR:O	13:8d:402:ARG:NH1	2.31	0.64
13:9d:269:LEU:HB2	13:9d:379:SER:HB3	1.77	0.64
12:Aa:87:PRO:HD3	12:Ba:281:TYR:CE1	2.31	0.64
12:Ac:86:ARG:HG2	12:Ac:88:ASP:OD2	1.97	0.64
13:Bd:60:LYS:NZ	13:Cd:283:HIS:ND1	2.45	0.64
1:0K:45:LEU:O	1:0K:49:LEU:HD23	1.97	0.64
1:0A:70:ASN:HA	1:0A:113:HIS:NE2	2.13	0.64
1:0B:47:ARG:HH12	47:6B:120:THR:C	2.06	0.64
1:0E:219:ILE:CG1	1:0E:255:LYS:HD3	2.27	0.64
1:0X:108:ARG:HD3	1:0X:147:TRP:CB	2.26	0.64
1:0Y:368:PRO:HG3	1:0Y:410:LYS:HD2	1.79	0.64
3:1H:206:ASP:H	47:6A:291:GLN:HE21	1.44	0.64
6:1N:706:VAL:HG11	6:1N:831:ARG:HB2	1.79	0.64
7:1O:224:THR:HG22	7:1O:282:LEU:HD21	1.78	0.64
7:1O:1253:ALA:HB2	8:1P:1013:LEU:HD23	1.80	0.64
7:1O:2585:ALA:HB2	7:1O:3058:PRO:HG3	1.79	0.64
12:1e:175:VAL:HG21	13:1f:332:VAL:CG1	2.27	0.64
12:2c:116:VAL:O	12:2c:120:VAL:HG13	1.98	0.64
34:3M:456:LEU:HA	34:3M:459:ILE:HG12	1.78	0.64
34:3P:89:ILE:HG12	34:3P:328:MET:SD	2.37	0.64
34:3P:109:LEU:HG	34:3P:112:LYS:HE2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3S:107:TYR:CE2	34:3S:111:ILE:HD11	2.33	0.64
34:3S:200:ALA:O	34:3S:204:MET:HG2	1.97	0.64
34:3W:89:ILE:HG13	34:3W:404:HIS:ND1	2.13	0.64
34:3W:352:LEU:CD1	34:3W:382:LEU:HD11	2.28	0.64
34:3Y:38:HIS:CE1	34:3Y:452:HIS:HE1	2.16	0.64
34:4B:257:LYS:NZ	34:4B:477:GLU:OE1	2.30	0.64
37:4E:860:LEU:O	37:4E:864:VAL:HG23	1.96	0.64
37:4F:1144:LEU:HB3	37:4F:1156:LEU:O	1.98	0.64
37:4G:1082:LEU:C	38:4L:35:ALA:C	2.66	0.64
37:4G:1084:ARG:HG2	38:4L:37:GLY:CA	2.24	0.64
38:4I:40:LYS:NZ	38:4I:44:LEU:HB2	2.11	0.64
38:4J:30:ALA:O	38:4J:34:ALA:N	2.27	0.64
40:4U:533:PRO:HB3	40:4U:614:LEU:HD22	1.79	0.64
12:4g:261:PRO:O	12:4g:262:ARG:HG2	1.97	0.64
43:5J:27:LEU:HD21	43:5J:32:LEU:HD13	1.78	0.64
13:5b:399:TYR:O	13:5b:402:ARG:NH1	2.31	0.64
13:5f:222:PRO:O	12:5g:324:LYS:HB3	1.97	0.64
47:6A:1575:ARG:HG2	47:6A:1578:GLU:OE1	1.98	0.64
50:6K:313:MET:HE1	50:6K:355:LEU:HD11	1.80	0.64
50:6L:448:VAL:HG23	50:6L:462:LEU:HB3	1.78	0.64
51:6M:1242:MET:HE1	51:6M:1436:CYS:HB2	1.79	0.64
12:6a:7:ILE:HB	12:6a:135:VAL:HG12	1.78	0.64
13:8f:399:TYR:O	13:8f:402:ARG:NH1	2.31	0.64
12:Ac:139:LEU:HD12	12:Ac:170:VAL:HG12	1.79	0.64
12:Ac:274:THR:HG22	12:Ac:282:ARG:HD3	1.79	0.64
13:Bb:207:GLU:OE1	13:Bb:304:LYS:NZ	2.30	0.64
12:Be:175:VAL:HG21	13:Bf:332:VAL:HG13	1.79	0.64
1:0C:167:GLY:O	1:0C:169:VAL:N	2.28	0.64
1:0F:368:PRO:HG3	1:0F:410:LYS:HD2	1.78	0.64
1:0M:37:LEU:HD12	1:0M:68:LEU:HD21	1.80	0.64
1:0Q:45:LEU:O	1:0Q:49:LEU:HD23	1.97	0.64
1:0R:244:ALA:O	1:0R:248:VAL:HG23	1.98	0.64
1:0T:128:ASP:HA	1:0T:131:VAL:HG22	1.78	0.64
1:1B:100:LYS:HE2	1:1B:141:VAL:HG11	1.80	0.64
1:1B:214:LEU:HB3	1:1B:229:VAL:CG2	2.27	0.64
1:1B:295:VAL:O	1:1B:299:VAL:HG23	1.97	0.64
3:1H:1005:PRO:HG2	47:6A:402:MET:CG	2.28	0.64
3:1H:1007:ARG:HH22	48:6F:330:ALA:HA	1.62	0.64
4:1K:25:LYS:HE3	13:Bd:414:GLU:HB3	1.79	0.64
10:1R:334:PRO:HB3	13:Ab:415:GLU:OE2	1.97	0.64
13:1d:399:TYR:O	13:1d:402:ARG:NH1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1f:301:MET:HE3	13:1f:307:PRO:HG2	1.80	0.64
12:2e:396:HIS:CD2	13:2f:263:PRO:HD3	2.33	0.64
34:3M:88:ALA:O	34:3M:92:THR:HG23	1.98	0.64
34:3R:38:HIS:CE1	34:3R:452:HIS:HE1	2.16	0.64
34:3T:485:TYR:O	34:3T:489:MET:HG3	1.97	0.64
34:3U:366:VAL:O	34:3U:370:GLU:HG3	1.98	0.64
12:3g:341:PHE:HB3	12:3g:348:ASN:HD22	1.62	0.64
13:3h:301:MET:HE3	13:3h:307:PRO:HG2	1.80	0.64
34:4A:107:TYR:CE2	34:4A:111:ILE:HD11	2.33	0.64
34:4B:118:HIS:CE1	34:4B:356:PHE:HB3	2.33	0.64
37:4E:1081:HIS:HB3	37:4E:1338:PHE:CE1	2.33	0.64
37:4G:1730:LEU:HD21	44:5S:25:LYS:HB2	1.80	0.64
37:4H:1083:ILE:HA	38:4M:35:ALA:HA	1.79	0.64
37:4H:1317:ASP:CB	37:4H:1321:THR:HG23	2.27	0.64
40:4V:428:PHE:HE1	40:4V:431:LEU:HB2	1.62	0.64
13:4b:399:TYR:O	13:4b:402:ARG:NH1	2.31	0.64
42:5H:136:HIS:CG	43:5L:51:HIS:N	2.66	0.64
43:5K:27:LEU:HD21	43:5K:32:LEU:HD13	1.78	0.64
47:6A:153:GLU:HB2	47:6A:157:ARG:NH1	2.13	0.64
47:6B:153:GLU:HB2	47:6B:157:ARG:NH1	2.13	0.64
50:6K:406:SER:OG	50:6K:452:GLU:HB3	1.98	0.64
52:6O:7:UNK:O	52:6O:9:UNK:N	2.31	0.64
12:6a:86:ARG:NH1	12:7a:281:TYR:HA	2.11	0.64
13:6h:301:MET:HE3	13:6h:307:PRO:HG2	1.80	0.64
12:7a:135:VAL:HG11	12:7a:152:ILE:HD11	1.78	0.64
12:8g:274:THR:HG22	12:8g:282:ARG:HD3	1.79	0.64
12:9a:394:PHE:CE1	13:9b:261:PRO:HA	2.33	0.64
1:0H:252:ILE:HA	1:0H:255:LYS:HE2	1.80	0.64
1:0A:323:PHE:HE2	47:6A:277:PHE:HE1	1.46	0.64
1:0N:193:ASP:HA	1:0N:196:LYS:HE3	1.80	0.64
1:0N:214:LEU:HD22	1:0N:229:VAL:HG12	1.80	0.64
1:0P:252:ILE:HA	1:0P:255:LYS:HE2	1.80	0.64
2:1G:189:LEU:O	2:1G:193:VAL:HG23	1.97	0.64
7:1O:208:VAL:H	8:1P:908:LYS:HG2	1.63	0.64
10:1R:170:PRO:O	13:Ab:393:HIS:NE2	2.28	0.64
10:1S:155:THR:HG21	13:9f:96:LYS:CB	2.20	0.64
10:1S:329:ARG:O	10:1S:331:TRP:N	2.24	0.64
13:1d:301:MET:HE3	13:1d:307:PRO:HG2	1.80	0.64
13:1h:399:TYR:O	13:1h:402:ARG:NH1	2.31	0.64
15:2H:177:UNK:HA	13:6h:57:GLY:HA2	1.80	0.64
24:2V:141:ARG:HH12	13:Cf:124:LYS:CE	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2a:35:THR:HG23	12:2a:37:HIS:NE2	2.13	0.64
13:2f:301:MET:HE3	13:2f:307:PRO:HG2	1.80	0.64
29:3E:1140:VAL:HG23	13:5f:264:ARG:HD3	1.80	0.64
34:3M:244:ARG:HH12	34:3P:117:ARG:HD2	1.61	0.64
34:3N:352:LEU:CD1	34:3N:382:LEU:HD11	2.28	0.64
34:3V:34:PHE:HB3	34:3X:507:VAL:HG21	1.79	0.64
34:3V:266:HIS:NE2	34:3V:270:ILE:HD11	2.12	0.64
12:3a:73:MET:HE3	12:3a:92:PHE:HB3	1.80	0.64
13:3d:301:MET:HE3	13:3d:307:PRO:HG2	1.80	0.64
37:4E:577:LEU:CD1	42:5H:134:LEU:HB3	2.28	0.64
37:4F:1341:ILE:N	38:4N:31:ALA:HB2	2.13	0.64
37:4G:512:LEU:H	37:4G:539:GLN:NE2	1.95	0.64
37:4G:856:MET:CB	37:4G:861:ALA:HB2	2.26	0.64
37:4G:903:THR:HG23	37:4G:906:THR:H	1.62	0.64
37:4G:1341:ILE:HD13	38:4L:27:ALA:O	1.98	0.64
37:4H:1093:VAL:N	38:4M:32:GLU:O	2.31	0.64
38:4K:54:GLU:HA	38:4K:58:VAL:HG22	1.79	0.64
38:4L:47:ALA:HA	38:4L:50:ARG:HB3	1.80	0.64
38:4L:75:ASN:C	38:4L:77:VAL:H	2.06	0.64
39:4S:59:THR:HG21	44:5R:95:VAL:HG21	1.80	0.64
39:4S:132:ILE:O	39:4S:136:LEU:HG	1.98	0.64
42:5H:91:TYR:HB3	43:5L:41:ASP:C	2.23	0.64
42:5H:94:CYS:CB	43:5L:45:ASN:HA	2.28	0.64
42:5H:140:TYR:HE2	43:5L:144:TYR:CD2	2.16	0.64
12:5a:282:ARG:NH2	12:5a:288:GLU:HG3	2.08	0.64
3:6D:265:TRP:CH2	3:6D:529:LEU:HD13	2.32	0.64
50:6K:377:TYR:O	50:6K:381:VAL:HG23	1.97	0.64
50:6L:406:SER:OG	50:6L:452:GLU:HB3	1.98	0.64
51:6N:1242:MET:HE1	51:6N:1436:CYS:HB2	1.79	0.64
13:6d:301:MET:HE3	13:6d:307:PRO:HG2	1.80	0.64
13:6f:301:MET:HE3	13:6f:307:PRO:HG2	1.80	0.64
13:7h:319:TYR:HB3	13:7h:323:VAL:HG21	1.78	0.64
12:Aa:87:PRO:HD3	12:Ba:281:TYR:CG	2.31	0.64
12:Ae:73:MET:HA	12:Ae:76:VAL:HG12	1.78	0.64
12:Bc:67:ASP:OD2	12:Bc:72:THR:OG1	2.15	0.64
12:Be:99:ASN:HA	12:Be:142:GLY:H	1.63	0.64
12:Dg:68:LEU:HD23	12:Dg:143:THR:HG22	1.80	0.64
1:0J:52:ASP:HB3	1:0J:58:GLN:HG3	1.80	0.64
1:0W:55:PRO:HB3	1:0W:96:ASN:HD21	1.63	0.64
1:0F:262:PHE:CE2	1:0F:264:ASP:HB2	2.32	0.64
1:0G:55:PRO:HB3	1:0G:96:ASN:HD21	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0N:139:PRO:HD3	32:3J:77:ARG:NH1	2.13	0.64
1:0Q:275:VAL:HG13	1:0Q:289:VAL:HG11	1.80	0.64
1:0R:311:LEU:HG	47:6B:270:VAL:HG21	1.80	0.64
1:0V:95:GLN:CG	25:2W:62:UNK:HA	2.21	0.64
1:0Y:315:MET:HG2	1:0Y:319:TYR:CE2	2.33	0.64
3:1H:917:PRO:O	3:1H:919:GLU:N	2.31	0.64
7:1O:140:PRO:HB3	8:1P:977:ARG:HA	1.80	0.64
7:1O:1742:ARG:HE	7:1O:1849:ARG:NH2	1.96	0.64
10:1R:418:ASN:ND2	13:Ab:55:GLU:OE2	2.31	0.64
13:1b:301:MET:HE3	13:1b:307:PRO:HG2	1.80	0.64
13:1b:399:TYR:O	13:1b:402:ARG:NH1	2.31	0.64
22:2P:47:UNK:HA	13:6f:297:GLU:OE1	1.98	0.64
24:2V:209:TYR:OH	12:Ce:261:PRO:O	2.14	0.64
12:2e:222:PHE:CE2	13:2f:248:LEU:HG	2.33	0.64
29:3E:1143:LEU:H	29:3E:1143:LEU:HD23	1.63	0.64
30:3F:328:ILE:HD13	13:7f:385:GLY:C	2.22	0.64
30:3F:409:GLN:HE22	12:7e:153:SER:HB3	1.63	0.64
33:3L:50:LEU:HD12	33:3L:69:LEU:HD22	1.78	0.64
34:3P:449:GLU:HG3	34:3P:453:ARG:HH12	1.62	0.64
12:3e:208:TYR:HA	12:3e:211:CYS:SG	2.37	0.64
12:3g:261:PRO:O	12:3g:262:ARG:HG2	1.97	0.64
37:4E:582:GLN:CA	43:5L:37:THR:OG1	2.46	0.64
37:4F:1315:VAL:N	38:4N:26:GLU:OE2	2.31	0.64
37:4F:1341:ILE:CG1	38:4N:30:ALA:O	2.24	0.64
37:4G:672:PHE:CD2	38:4I:39:HIS:CE1	2.70	0.64
37:4H:1701:GLN:HE21	37:4H:1773:PRO:HG3	1.63	0.64
40:4U:667:LYS:HE2	40:4U:822:TRP:CZ3	2.33	0.64
13:4f:399:TYR:O	13:4f:402:ARG:NH1	2.31	0.64
42:5E:80:GLY:O	42:5E:83:GLN:HB2	1.97	0.64
12:5c:68:LEU:HD23	12:5c:143:THR:HG23	1.79	0.64
12:5g:317:PHE:HB3	12:5g:321:MET:HE1	1.79	0.64
48:6E:1035:MET:O	48:6E:1041:LYS:NZ	2.30	0.64
49:6G:323:LEU:HA	49:6G:326:GLU:OE1	1.97	0.64
49:6I:18:GLU:OE2	49:6I:42:LEU:HD11	1.98	0.64
50:6K:185:ILE:HD11	50:6K:399:LEU:HD11	1.80	0.64
50:6L:185:ILE:HD11	50:6L:399:LEU:HD11	1.80	0.64
12:6c:274:THR:HG21	12:6c:279:GLN:HA	1.80	0.64
12:6g:67:ASP:OD2	12:6g:72:THR:OG1	2.16	0.64
13:7d:301:MET:HE3	13:7d:307:PRO:HG2	1.80	0.64
12:7e:91:VAL:HG21	12:7e:116:VAL:HG12	1.80	0.64
13:7h:301:MET:HE3	13:7h:307:PRO:HG2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8a:176:SER:HB2	13:8b:349:THR:HB	1.78	0.64
13:9b:301:MET:HE3	13:9b:307:PRO:HG2	1.80	0.64
12:9g:178:THR:OG1	12:9g:181:GLU:HG3	1.98	0.64
12:Ag:261:PRO:O	12:Ag:262:ARG:HG2	1.96	0.64
1:0B:315:MET:HG2	1:0B:319:TYR:CE2	2.33	0.63
1:0P:295:VAL:O	1:0P:299:VAL:HG23	1.97	0.63
1:0Y:206:VAL:HG21	1:0Y:243:LEU:HD22	1.79	0.63
1:1B:52:ASP:HB3	1:1B:58:GLN:HG3	1.80	0.63
2:1D:118:PRO:HG2	12:Ag:406:MET:HE1	1.79	0.63
7:1O:1916:ARG:NE	7:1O:2147:TYR:OH	2.31	0.63
7:1O:2718:ARG:NH2	7:1O:2840:GLU:OE2	2.31	0.63
12:1e:320:ARG:HE	14:2F:25:TYR:HE2	1.45	0.63
14:2G:89:ALA:HA	12:Ce:361:LEU:HD23	1.80	0.63
13:2b:301:MET:HE3	13:2b:307:PRO:HG2	1.80	0.63
12:2c:11:GLN:HE22	13:2d:249:ASN:H	1.46	0.63
12:2c:176:SER:HB2	12:2c:181:GLU:OE1	1.98	0.63
31:3I:398:ARG:O	31:3I:401:GLU:HG3	1.98	0.63
34:3M:244:ARG:HB3	34:3P:113:GLU:OE1	1.97	0.63
34:3S:88:ALA:O	34:3S:92:THR:HG23	1.98	0.63
34:3T:78:HIS:CE1	34:3T:320:LEU:HD22	2.34	0.63
34:3T:378:SER:HA	34:3T:381:ASN:ND2	2.13	0.63
34:3V:103:LEU:HD13	34:3V:342:GLN:HG3	1.80	0.63
34:3Z:264:SER:O	34:3Z:267:GLU:HG2	1.98	0.63
34:3Z:495:GLN:O	34:3Z:498:LEU:HG	1.97	0.63
13:3b:399:TYR:O	13:3b:402:ARG:NH1	2.31	0.63
13:3d:399:TYR:O	13:3d:402:ARG:NH1	2.31	0.63
35:4C:1090:ARG:HB3	35:4C:1104:LEU:HD13	1.80	0.63
37:4E:583:GLU:HG3	43:5L:35:LYS:O	1.98	0.63
37:4F:537:LEU:HD21	38:4K:53:LEU:CD1	2.28	0.63
37:4F:1093:VAL:CG2	38:4N:33:LYS:O	2.46	0.63
37:4G:506:MET:HE2	37:4G:547:GLY:HA2	1.80	0.63
37:4G:1074:GLN:CD	38:4L:42:ILE:CG1	2.64	0.63
37:4H:875:PRO:HA	37:4H:1471:LEU:HD13	1.80	0.63
39:4Q:67:TRP:HA	44:5P:149:MET:HE1	1.81	0.63
39:4Q:132:ILE:O	39:4Q:136:LEU:HG	1.98	0.63
40:4V:438:LEU:HD23	40:4V:443:VAL:HG12	1.79	0.63
13:4d:399:TYR:O	13:4d:402:ARG:NH1	2.31	0.63
44:5R:113:MET:HG3	44:5R:128:MET:HE1	1.79	0.63
47:6B:205:ARG:NH2	12:Bg:404:ASP:H	1.95	0.63
48:6E:202:ARG:NH2	49:6G:464:ASN:OD1	2.30	0.63
50:6K:342:LEU:HD13	50:6K:365:LEU:HB3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:6Q:7:UNK:O	52:6Q:9:UNK:N	2.30	0.63
13:6b:301:MET:HE3	13:6b:307:PRO:HG2	1.80	0.63
12:Ac:403:MET:HE3	12:Ac:407:GLU:OE1	1.98	0.63
13:Cf:273:ALA:O	13:Cf:375:VAL:N	2.27	0.63
1:0I:45:LEU:O	1:0I:49:LEU:HD23	1.97	0.63
1:0C:337:LEU:O	1:0C:341:VAL:HG23	1.96	0.63
1:0O:372:LYS:HA	1:0O:411:LEU:HD13	1.79	0.63
1:0P:286:ALA:HB1	1:0P:320:ILE:HG12	1.78	0.63
1:0Q:322:ALA:HB2	1:0Q:362:GLN:HG2	1.79	0.63
1:0Q:407:VAL:HG12	1:0Q:411:LEU:HD22	1.79	0.63
1:0R:319:TYR:CE1	1:0R:358:TRP:HH2	2.17	0.63
1:0S:271:SER:O	1:0S:275:VAL:HG23	1.98	0.63
2:1D:189:LEU:HD22	2:1D:213:LEU:HD13	1.78	0.63
3:1H:1009:ARG:NH1	48:6F:353:ILE:HB	2.13	0.63
7:1O:1866:GLY:HA2	7:1O:1869:ASN:HD21	1.64	0.63
10:1S:75:LEU:HD11	10:1S:125:LEU:HD22	1.80	0.63
12:2a:73:MET:HE3	12:2a:92:PHE:HB3	1.80	0.63
30:3F:301:VAL:C	13:6f:264:ARG:NE	2.55	0.63
32:3J:101:PRO:HD3	12:Ac:421:GLU:OE1	1.98	0.63
34:3N:38:HIS:CE1	34:3N:452:HIS:CE1	2.86	0.63
34:3N:273:ARG:O	34:3N:277:VAL:HG13	1.98	0.63
34:3O:97:LEU:HD12	34:3O:397:LEU:HD12	1.78	0.63
34:3Q:507:VAL:HG21	34:3T:463:HIS:CD2	2.33	0.63
34:3T:93:VAL:O	34:3T:97:LEU:HG	1.96	0.63
34:3T:273:ARG:O	34:3T:277:VAL:HG13	1.98	0.63
34:3W:118:HIS:CE1	34:3W:356:PHE:HB3	2.33	0.63
34:3Z:266:HIS:O	34:3Z:270:ILE:HG23	1.97	0.63
12:3a:334:GLN:NE2	12:3a:349:VAL:HG12	2.13	0.63
13:3f:399:TYR:O	13:3f:402:ARG:NH1	2.31	0.63
34:4A:118:HIS:CE1	34:4A:356:PHE:HB3	2.33	0.63
34:4B:63:SER:OG	34:4B:187:VAL:HA	1.98	0.63
37:4E:526:ARG:HH12	37:4E:681:GLU:CD	2.05	0.63
37:4F:974:VAL:HG12	37:4F:975:VAL:HG13	1.80	0.63
37:4F:1078:PRO:C	37:4F:1080:GLY:H	2.07	0.63
37:4F:1333:VAL:C	38:4N:30:ALA:C	2.66	0.63
37:4F:1701:GLN:HE21	37:4F:1773:PRO:HG3	1.63	0.63
37:4G:1083:ILE:CD1	38:4L:34:ALA:HB3	2.28	0.63
37:4G:1083:ILE:HA	38:4L:35:ALA:C	2.22	0.63
37:4G:1163:SER:OG	37:4G:1184:TRP:HB3	1.98	0.63
38:4K:48:PRO:HD2	38:4K:49:ILE:HD12	1.79	0.63
38:4K:75:ASN:C	38:4K:77:VAL:H	2.05	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4P:69:CYS:HA	38:4P:72:ARG:NH1	2.13	0.63
40:4T:492:THR:HG23	40:4T:494:LEU:H	1.62	0.63
41:5A:164:GLY:CA	43:5L:165:LEU:HD11	2.24	0.63
41:5A:170:THR:HA	43:5L:164:GLU:OE2	1.98	0.63
42:5G:80:GLY:O	42:5G:83:GLN:HB2	1.97	0.63
42:5H:141:GLN:HA	43:5L:47:LYS:HD3	1.78	0.63
43:5K:40:ASN:O	43:5K:41:ASP:HB2	1.96	0.63
12:5a:236:ILE:HD12	12:5a:368:ILE:HD11	1.79	0.63
13:5h:399:TYR:O	13:5h:402:ARG:NH1	2.31	0.63
47:6A:1558:LEU:O	47:6A:1562:THR:HG23	1.99	0.63
47:6B:290:GLY:HA3	3:6D:196:THR:HG23	1.80	0.63
47:6B:1244:LEU:HD13	51:6N:2357:ARG:HG2	1.80	0.63
47:6B:1558:LEU:O	47:6B:1562:THR:HG23	1.98	0.63
48:6F:800:LEU:HD12	49:6J:20:LEU:HD12	1.79	0.63
49:6J:18:GLU:OE2	49:6J:42:LEU:HD11	1.98	0.63
49:6J:273:ILE:HG22	49:6J:279:THR:HA	1.81	0.63
50:6K:8:ILE:HG22	50:6K:143:VAL:HG21	1.79	0.63
51:6M:1797:ARG:HG3	51:6M:1921:SER:OG	1.98	0.63
12:8e:282:ARG:NH2	12:8e:288:GLU:HG3	2.12	0.63
12:Aa:26:ASP:HB2	12:Aa:359:LYS:NZ	2.13	0.63
13:Ah:301:MET:HE3	13:Ah:307:PRO:HG2	1.79	0.63
13:Cb:394:LYS:HB3	12:Cc:346:PRO:HG3	1.79	0.63
12:Cc:67:ASP:OD2	12:Cc:72:THR:OG1	2.15	0.63
13:Ch:273:ALA:O	13:Ch:375:VAL:N	2.27	0.63
1:0H:134:LEU:HD11	1:0H:149:LEU:HD11	1.79	0.63
1:0K:143:GLU:HG3	1:0K:186:ILE:HG13	1.80	0.63
1:0B:358:TRP:HB2	1:0B:399:LYS:HD2	1.80	0.63
1:0N:358:TRP:HB2	1:0N:399:LYS:HD3	1.80	0.63
1:0P:3:THR:HG22	1:0P:6:VAL:HG23	1.80	0.63
1:0Q:342:SER:O	1:0Q:346:GLU:HG2	1.97	0.63
1:0S:224:LYS:HD3	1:0S:227:ARG:HH21	1.63	0.63
1:0T:358:TRP:HB2	1:0T:399:LYS:HD2	1.80	0.63
1:0V:218:VAL:HB	1:0V:255:LYS:HD2	1.80	0.63
1:0Y:358:TRP:HB2	1:0Y:399:LYS:HD2	1.80	0.63
2:1D:142:LEU:HD13	2:1D:147:MET:HE1	1.79	0.63
2:1G:363:VAL:O	2:1G:367:VAL:HG23	1.98	0.63
3:1H:622:PRO:O	3:1H:623:HIS:CD2	2.52	0.63
13:2h:301:MET:HE3	13:2h:307:PRO:HG2	1.80	0.63
32:3K:147:PHE:HZ	32:3K:208:MET:HE1	1.63	0.63
33:3L:103:ARG:HA	33:3L:127:PRO:HB2	1.81	0.63
34:3M:325:ASP:O	34:3M:329:THR:HG23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3T:49:PHE:HB2	34:3T:288:MET:HE1	1.80	0.63
13:3h:399:TYR:O	13:3h:402:ARG:NH1	2.31	0.63
34:4B:494:GLN:O	34:4B:498:LEU:HG	1.97	0.63
35:4C:339:LEU:HD21	1:0H:213:TYR:CE1	2.33	0.63
36:4D:175:PRO:HD3	36:4D:222:TYR:CZ	2.34	0.63
37:4F:1083:ILE:HB	38:4N:38:VAL:CG2	2.28	0.63
37:4F:1334:GLU:HG3	37:4F:1340:PRO:CD	2.28	0.63
37:4G:1089:GLY:O	37:4G:1140:ARG:N	2.32	0.63
37:4G:1701:GLN:HE21	37:4G:1773:PRO:HG3	1.63	0.63
38:4K:47:ALA:HA	38:4K:50:ARG:HB3	1.80	0.63
38:4O:69:CYS:SG	38:4P:53:LEU:HD21	2.39	0.63
38:4P:61:LEU:O	38:4P:65:MET:HG2	1.97	0.63
39:4Q:65:ARG:HD3	44:5P:48:THR:HG22	1.79	0.63
39:4R:132:ILE:O	39:4R:136:LEU:HG	1.98	0.63
40:4T:428:PHE:HE1	40:4T:431:LEU:HB2	1.62	0.63
41:4X:86:TYR:HA	41:4X:105:TYR:HA	1.81	0.63
13:4h:399:TYR:O	13:4h:402:ARG:NH1	2.31	0.63
42:5H:136:HIS:CA	43:5L:50:ILE:C	2.71	0.63
42:5H:139:LEU:CB	43:5L:146:TYR:CE2	2.81	0.63
47:6A:1244:LEU:HD13	51:6M:2357:ARG:HG2	1.80	0.63
47:6B:486:TYR:CE2	47:6B:495:PRO:HD3	2.34	0.63
47:6B:972:ALA:HB1	47:6B:1016:LEU:HD23	1.81	0.63
48:6E:1032:ASP:OD2	48:6E:1036:GLN:NE2	2.31	0.63
12:6c:67:ASP:OD2	12:6c:72:THR:OG1	2.17	0.63
12:6e:73:MET:HE3	12:6e:92:PHE:HB3	1.80	0.63
12:9a:215:LEU:HD21	12:9a:273:LEU:HD22	1.80	0.63
13:9f:399:TYR:O	13:9f:402:ARG:NH1	2.31	0.63
12:Ce:179:VAL:HG23	13:Cf:352:LYS:HB2	1.80	0.63
1:0K:217:LEU:HB2	1:0K:229:VAL:HG11	1.79	0.63
44:5P:145:PHE:O	44:5P:149:MET:HG2	1.98	0.63
1:0C:195:SER:O	1:0C:239:HIS:NE2	2.31	0.63
1:0P:134:LEU:HD11	1:0P:149:LEU:HD11	1.80	0.63
1:0Z:343:ALA:O	1:0Z:347:GLU:HG3	1.98	0.63
1:1B:380:LEU:HD21	1:1B:407:VAL:HG11	1.79	0.63
4:1K:26:GLN:HE21	4:1K:84:GLU:HG2	1.62	0.63
10:1R:394:ARG:NH2	13:Ab:120:ASP:OD1	2.31	0.63
10:1S:365:VAL:HB	12:Bg:336:LYS:HD3	1.80	0.63
13:1f:399:TYR:O	13:1f:402:ARG:NH1	2.31	0.63
17:2J:57:UNK:HA	13:Bb:84:ARG:NH2	2.08	0.63
17:2J:77:UNK:O	13:Ab:84:ARG:NH2	2.31	0.63
30:3F:297:PHE:HZ	12:6e:391:ARG:HH21	1.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:3I:168:VAL:O	31:3I:172:LEU:HG	1.99	0.63
32:3J:118:TYR:OH	32:3J:137:HIS:CD2	2.52	0.63
34:3N:382:LEU:O	34:3N:385:GLU:HG3	1.98	0.63
34:3P:48:HIS:C	34:3P:52:GLN:HE21	2.06	0.63
34:3R:122:GLN:HG2	34:3R:125:ARG:NH1	2.13	0.63
34:3T:48:HIS:CD2	34:3T:222:LEU:HG	2.33	0.63
34:3T:490:GLN:HG3	34:3T:494:GLN:HE21	1.63	0.63
35:4C:918:ARG:HH21	35:4C:928:TRP:HB2	1.62	0.63
37:4E:542:ARG:HB3	42:5H:112:THR:HG23	1.80	0.63
37:4E:1123:LEU:HB2	43:5L:137:ARG:HD3	1.81	0.63
37:4G:856:MET:HE1	37:4G:860:LEU:HB2	1.80	0.63
37:4H:508:PRO:HD2	38:4M:70:LYS:NZ	2.12	0.63
40:4T:438:LEU:HD23	40:4T:443:VAL:HG12	1.79	0.63
12:5g:417:ASP:O	12:5g:421:GLU:HG2	1.98	0.63
47:6A:486:TYR:CE2	47:6A:495:PRO:HD3	2.34	0.63
47:6A:972:ALA:HB1	47:6A:1016:LEU:HD23	1.81	0.63
48:6E:957:HIS:O	50:6K:441:GLN:NE2	2.29	0.63
51:6M:2164:LEU:HD23	51:6M:2291:PRO:HB3	1.81	0.63
51:6N:1797:ARG:HG3	51:6N:1921:SER:OG	1.99	0.63
51:6N:2164:LEU:HD23	51:6N:2291:PRO:HB3	1.81	0.63
51:6N:2247:LEU:HB3	51:6N:2252:TYR:CE2	2.30	0.63
52:6P:7:UNK:O	52:6P:9:UNK:N	2.31	0.63
13:7f:301:MET:HE3	13:7f:307:PRO:HG2	1.80	0.63
12:7g:401:GLU:OE1	12:7g:401:GLU:N	2.31	0.63
13:Ab:301:MET:HE3	13:Ab:307:PRO:HG2	1.80	0.63
12:Ae:87:PRO:HA	12:Ae:90:PHE:CD1	2.34	0.63
13:Bh:273:ALA:O	13:Bh:375:VAL:N	2.27	0.63
1:0J:100:LYS:HE2	1:0J:141:VAL:HG21	1.80	0.63
1:0I:271:SER:O	1:0I:275:VAL:HG23	1.98	0.63
1:0D:368:PRO:HG3	1:0D:410:LYS:HD2	1.81	0.63
1:0M:358:TRP:CD1	1:0M:362:GLN:HE22	2.17	0.63
1:0T:52:ASP:H	1:0T:58:GLN:NE2	1.95	0.63
1:0T:265:GLU:HA	1:0T:268:LYS:HE2	1.79	0.63
1:0Z:167:GLY:O	1:0Z:169:VAL:N	2.28	0.63
2:1D:397:LYS:HD3	2:1D:430:SER:H	1.64	0.63
3:1H:991:ILE:HG12	47:6A:399:LYS:HB3	1.81	0.63
6:1N:550:GLU:O	6:1N:554:VAL:HG23	1.98	0.63
6:1N:1715:TRP:HE1	6:1N:1738:ALA:N	1.95	0.63
7:1O:918:ARG:NH1	7:1O:1020:ALA:O	2.29	0.63
12:1a:245:GLN:HG3	12:1a:355:ASP:OD1	1.99	0.63
12:1e:274:THR:OG1	12:1e:279:GLN:NE2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2d:301:MET:HE3	13:2d:307:PRO:HG2	1.80	0.63
12:2g:274:THR:HG21	12:2g:279:GLN:HA	1.81	0.63
30:3G:541:THR:HA	13:7h:116:ASP:OD1	1.99	0.63
34:3S:250:ARG:O	34:3S:254:MET:HG2	1.98	0.63
34:4A:126:PHE:CE1	34:4A:368:LEU:HG	2.32	0.63
37:4E:574:LEU:C	43:5L:30:ARG:HE	2.06	0.63
37:4F:1316:GLN:O	37:4F:1318:TYR:N	2.30	0.63
37:4H:954:SER:HB2	38:4M:48:PRO:HA	1.80	0.63
37:4H:1084:ARG:HE	38:4M:37:GLY:C	1.98	0.63
37:4H:1333:VAL:CB	38:4M:27:ALA:C	2.71	0.63
38:4I:75:ASN:C	38:4I:77:VAL:H	2.06	0.63
38:4K:73:PRO:HD2	38:4K:76:PRO:CG	2.27	0.63
38:4N:47:ALA:HA	38:4N:50:ARG:HB3	1.80	0.63
40:4U:428:PHE:HE1	40:4U:431:LEU:HB2	1.62	0.63
42:5H:93:GLU:HB2	43:5L:45:ASN:HD21	1.62	0.63
42:5H:136:HIS:CD2	43:5L:50:ILE:HB	2.33	0.63
43:5I:7:TRP:HE3	43:5I:10:LEU:O	1.82	0.63
43:5I:161:ASP:OD1	43:5I:161:ASP:N	2.29	0.63
43:5L:162:VAL:HG22	43:5L:164:GLU:HG3	1.81	0.63
13:5b:301:MET:HE3	13:5b:307:PRO:HG2	1.80	0.63
49:6J:15:LYS:HA	49:6J:18:GLU:HG3	1.80	0.63
51:6M:2188:GLU:OE2	51:6M:2308:LYS:NZ	2.32	0.63
12:6a:254:ALA:O	12:6a:258:ILE:HG22	1.98	0.63
13:6d:222:PRO:HD2	12:6e:324:LYS:HG2	1.81	0.63
12:9g:267:MET:HE1	12:9g:305:PRO:HG3	1.79	0.63
13:Af:301:MET:HE3	13:Af:307:PRO:HG2	1.80	0.63
1:0I:337:LEU:O	1:0I:341:VAL:HG23	1.97	0.63
1:0B:380:LEU:O	1:0B:384:VAL:HG23	1.98	0.63
1:0F:353:LYS:HB2	1:0F:396:LEU:HD21	1.80	0.63
1:0O:265:GLU:HA	1:0O:268:LYS:HE2	1.80	0.63
1:0O:332:ILE:HG13	1:0O:370:HIS:CE1	2.32	0.63
3:1H:1002:PRO:HB2	47:6A:406:ARG:NH1	2.12	0.63
4:1J:26:GLN:HE21	4:1J:84:GLU:HG2	1.62	0.63
4:1J:82:ILE:HD12	4:1J:82:ILE:H	1.63	0.63
4:1K:82:ILE:HD12	4:1K:82:ILE:H	1.63	0.63
4:1K:227:PHE:HA	4:1K:271:GLN:O	1.99	0.63
5:1M:540:THR:HA	13:1f:161:TYR:O	1.98	0.63
12:1a:19:LYS:O	12:1a:23:VAL:HG23	1.97	0.63
23:2Q:79:UNK:HA	12:3e:213:ARG:NH2	2.06	0.63
12:2e:139:LEU:HA	12:2e:145:SER:OG	1.99	0.63
30:3G:729:LEU:HD21	13:6b:156:ARG:CD	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:3G:757:ALA:O	30:3G:761:VAL:HG23	1.98	0.63
32:3J:150:ARG:HH21	12:Aa:391:ARG:HD2	1.64	0.63
33:3L:197:LEU:HD13	12:7e:389:PHE:HD2	1.64	0.63
34:3Q:506:GLU:HB2	34:3T:266:HIS:NE2	2.14	0.63
35:4C:400:GLU:HA	35:4C:498:SER:O	1.98	0.63
35:4C:428:ARG:HH11	35:4C:458:TYR:HB2	1.63	0.63
37:4E:733:LEU:HA	37:4E:1801:GLN:OE1	1.99	0.63
37:4F:826:LEU:HD22	38:4N:82:TYR:HH	1.60	0.63
37:4F:1138:VAL:HG22	38:4N:33:LYS:CG	2.29	0.63
37:4F:1156:LEU:HD23	37:4F:1162:VAL:CG2	2.28	0.63
37:4F:1335:MET:CB	37:4F:1338:PHE:H	2.10	0.63
37:4G:522:VAL:HB	37:4G:678:LEU:HD23	1.79	0.63
37:4H:1090:GLN:O	37:4H:1091:VAL:CB	2.46	0.63
40:4V:69:VAL:HG21	40:4V:410:LEU:HD21	1.80	0.63
13:4b:140:ALA:HA	13:4b:171:VAL:HG12	1.81	0.63
13:4f:140:ALA:HA	13:4f:171:VAL:HG12	1.81	0.63
42:5H:138:ARG:HG3	43:5L:51:HIS:HE2	1.63	0.63
43:5I:87:ILE:HG12	43:5I:146:TYR:CG	2.34	0.63
43:5J:46:PRO:HA	43:5J:49:ALA:HB3	1.79	0.63
43:5K:46:PRO:HA	43:5K:49:ALA:HB3	1.79	0.63
43:5L:87:ILE:HG12	43:5L:146:TYR:CG	2.34	0.63
13:5d:399:TYR:O	13:5d:402:ARG:NH1	2.31	0.63
47:6A:384:GLU:O	47:6A:388:LEU:HG	1.98	0.63
49:6H:15:LYS:HA	49:6H:18:GLU:HG3	1.80	0.63
49:6H:18:GLU:OE2	49:6H:42:LEU:HD11	1.98	0.63
49:6I:273:ILE:HG22	49:6I:279:THR:HA	1.81	0.63
50:6L:8:ILE:HG22	50:6L:143:VAL:HG21	1.79	0.63
13:7b:301:MET:HE3	13:7b:307:PRO:HG2	1.80	0.63
13:8b:140:ALA:HA	13:8b:171:VAL:HG12	1.81	0.63
13:8f:140:ALA:HA	13:8f:171:VAL:HG12	1.81	0.63
12:9a:73:MET:HE3	12:9a:92:PHE:HB3	1.81	0.63
12:9a:86:ARG:NH2	12:Aa:282:ARG:HB2	2.13	0.63
12:9c:67:ASP:OD2	12:9c:72:THR:OG1	2.16	0.63
13:9h:140:ALA:HA	13:9h:171:VAL:HG12	1.81	0.63
12:Aa:84:ILE:O	12:Aa:86:ARG:NH1	2.27	0.63
12:Aa:219:THR:HG23	13:Ab:324:VAL:HG21	1.79	0.63
13:Cb:273:ALA:O	13:Cb:375:VAL:N	2.27	0.63
13:Db:140:ALA:HA	13:Db:171:VAL:HG12	1.81	0.63
13:Dd:140:ALA:HA	13:Dd:171:VAL:HG12	1.81	0.63
13:Dh:140:ALA:HA	13:Dh:171:VAL:HG12	1.81	0.63
1:0J:315:MET:HE2	1:0J:315:MET:HA	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0K:275:VAL:HG11	1:0K:298:LEU:HD11	1.81	0.63
44:5P:93:PHE:CE2	44:5P:145:PHE:HD2	2.16	0.63
1:0A:295:VAL:O	1:0A:299:VAL:HG23	1.99	0.63
1:0C:126:ALA:O	1:0C:129:SER:OG	2.15	0.63
1:0D:37:LEU:HD12	1:0D:68:LEU:HD21	1.81	0.63
1:0G:265:GLU:HA	1:0G:268:LYS:HE2	1.81	0.63
1:0N:278:VAL:HG13	1:0N:285:LEU:HD23	1.80	0.63
1:0O:257:LEU:HD21	1:0O:294:GLY:HA2	1.80	0.63
1:0R:108:ARG:CZ	1:0R:147:TRP:HE3	2.11	0.63
1:0R:147:TRP:HE1	1:0R:186:ILE:HG13	1.64	0.63
1:0Z:20:PHE:O	1:0Z:24:VAL:HG13	1.98	0.63
1:1A:368:PRO:HG3	1:1A:410:LYS:HD2	1.81	0.63
2:1E:397:LYS:HD3	2:1E:430:SER:H	1.64	0.63
2:1F:49:GLN:HB3	2:1F:51:VAL:HG22	1.81	0.63
3:1H:937:MET:HA	47:6A:378:LEU:HD11	1.81	0.63
3:1H:1005:PRO:HA	47:6A:406:ARG:HA	1.80	0.63
6:1N:1520:GLU:O	6:1N:1524:VAL:HG23	1.99	0.63
7:1O:2152:VAL:HG22	8:1P:813:ARG:NE	2.14	0.63
10:1R:57:LYS:HB3	13:Ad:337:THR:O	1.98	0.63
10:1R:381:THR:HG21	10:1R:386:LEU:HB3	1.81	0.63
13:1f:140:ALA:HA	13:1f:171:VAL:HG12	1.81	0.63
20:2N:49:UNK:O	12:6e:361:LEU:HD21	1.99	0.63
34:3Z:273:ARG:O	34:3Z:277:VAL:HG13	1.98	0.63
12:3e:35:THR:HG23	12:3e:37:HIS:NE2	2.13	0.63
34:4B:219:ILE:HA	34:4B:222:LEU:HD12	1.80	0.63
37:4E:577:LEU:C	43:5L:43:GLN:NE2	2.56	0.63
37:4E:586:PHE:C	43:5L:18:ILE:CD1	2.60	0.63
37:4E:1456:PHE:HD1	37:4E:1463:CYS:HG	1.45	0.63
37:4F:1082:LEU:CA	37:4F:1082:LEU:HB2	2.17	0.63
37:4G:853:VAL:HG12	37:4G:854:TYR:N	2.13	0.63
37:4G:1084:ARG:HG3	37:4G:1092:LEU:CD2	2.28	0.63
37:4H:945:ALA:HB2	37:4H:977:PRO:HA	1.80	0.63
37:4H:954:SER:O	38:4M:48:PRO:HA	1.97	0.63
38:4M:75:ASN:C	38:4M:77:VAL:H	2.05	0.63
40:4U:438:LEU:HD23	40:4U:443:VAL:HG12	1.79	0.63
40:4U:492:THR:HG23	40:4U:494:LEU:H	1.62	0.63
12:4a:33:THR:O	12:4a:58:ARG:NH1	2.31	0.63
13:4b:72:PRO:HG3	12:4c:1:MET:HG2	1.81	0.63
13:4d:140:ALA:HA	13:4d:171:VAL:HG12	1.81	0.63
41:5A:141:ASN:N	43:5L:167:PRO:HA	2.13	0.63
12:5a:329:GLN:O	12:5a:333:VAL:HG23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5b:96:LYS:HE3	12:5c:1:MET:HE1	1.80	0.63
12:5e:274:THR:HG21	12:5e:279:GLN:HA	1.80	0.63
13:5f:301:MET:HE3	13:5f:307:PRO:HG2	1.80	0.63
13:5h:140:ALA:HA	13:5h:171:VAL:HG12	1.81	0.63
47:6A:966:GLN:HG2	47:6A:1094:VAL:HG21	1.81	0.63
49:6G:15:LYS:HA	49:6G:18:GLU:HG3	1.80	0.63
49:6I:15:LYS:HA	49:6I:18:GLU:HG3	1.80	0.63
50:6K:509:ILE:HG22	50:6K:511:ASN:H	1.63	0.63
50:6K:554:ASN:O	50:6K:558:THR:HG23	1.98	0.63
50:6L:342:LEU:HD13	50:6L:365:LEU:HB3	1.79	0.63
51:6N:2188:GLU:OE2	51:6N:2308:LYS:NZ	2.32	0.63
13:8d:140:ALA:HA	13:8d:171:VAL:HG12	1.81	0.63
13:8h:140:ALA:HA	13:8h:171:VAL:HG12	1.81	0.63
13:9f:178:SER:OG	12:9g:347:ASN:ND2	2.32	0.63
12:9g:67:ASP:OD2	12:9g:72:THR:OG1	2.16	0.63
13:Bb:399:TYR:O	13:Bb:402:ARG:NH1	2.31	0.63
12:Bc:261:PRO:O	12:Bc:262:ARG:HG2	1.97	0.63
13:Cb:301:MET:HE3	13:Cb:307:PRO:HG2	1.80	0.63
13:Df:140:ALA:HA	13:Df:171:VAL:HG12	1.81	0.63
1:0J:218:VAL:HG22	1:0J:229:VAL:HG21	1.79	0.63
1:0I:270:HIS:O	1:0I:274:VAL:HG23	1.99	0.63
1:0C:363:ILE:HG22	1:0C:370:HIS:HB3	1.80	0.63
1:0O:69:ALA:O	1:0O:113:HIS:NE2	2.32	0.63
1:0S:338:PRO:HA	1:0S:341:VAL:HG22	1.81	0.63
1:0T:380:LEU:HD21	1:0T:407:VAL:HG21	1.81	0.63
1:0V:371:ALA:HB1	1:0V:407:VAL:HA	1.80	0.63
4:1J:227:PHE:HA	4:1J:271:GLN:O	1.99	0.63
6:1N:1083:LYS:HD2	6:1N:1086:LEU:HG	1.81	0.63
10:1R:364:PHE:CD2	10:1R:366:LYS:HG2	2.34	0.63
13:1b:140:ALA:HA	13:1b:171:VAL:HG12	1.81	0.63
12:1e:361:LEU:HD22	14:2F:14:ALA:HB2	1.81	0.63
14:2G:44:LYS:HD2	13:Df:245:ASP:OD2	1.99	0.63
34:3M:273:ARG:O	34:3M:277:VAL:HG13	1.97	0.63
34:3Y:75:GLN:HB2	34:3Y:419:LEU:HD22	1.81	0.63
12:3a:139:LEU:HA	12:3a:145:SER:OG	1.98	0.63
34:4B:494:GLN:HG2	34:4B:497:MET:HE2	1.81	0.63
37:4E:574:LEU:HD22	42:5H:134:LEU:HD11	1.80	0.63
37:4G:664:TYR:CD2	38:4I:43:ASN:CG	2.77	0.63
37:4G:856:MET:CE	38:4L:85:LEU:HA	2.29	0.63
37:4H:1324:THR:OG1	38:4M:24:THR:HG22	1.99	0.63
38:4K:25:PRO:CB	42:5G:96:ALA:CB	2.76	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:4a:45:GLU:HG3	12:4a:46:ARG:HG2	1.81	0.63
42:5H:49:ILE:HG22	43:5L:144:TYR:CD1	2.26	0.63
42:5H:141:GLN:N	43:5L:47:LYS:CG	2.57	0.63
12:5a:106:TYR:HB2	12:5a:401:GLU:OE2	1.98	0.63
12:5a:107:THR:O	12:5a:111:GLU:HG2	1.98	0.63
13:5b:140:ALA:HA	13:5b:171:VAL:HG12	1.81	0.63
13:5f:399:TYR:O	13:5f:402:ARG:NH1	2.31	0.63
47:6A:1003:VAL:O	47:6A:1007:GLN:HG3	1.98	0.63
47:6B:384:GLU:O	47:6B:388:LEU:HG	1.98	0.63
47:6B:1003:VAL:O	47:6B:1007:GLN:HG3	1.98	0.63
48:6E:899:LEU:HG	48:6E:900:GLN:HG2	1.79	0.63
48:6F:899:LEU:HG	48:6F:900:GLN:HG2	1.79	0.63
48:6F:1032:ASP:OD2	48:6F:1036:GLN:NE2	2.31	0.63
49:6G:18:GLU:OE2	49:6G:42:LEU:HD11	1.98	0.63
51:6M:2247:LEU:HB3	51:6M:2252:TYR:CE2	2.30	0.63
51:6N:1611:THR:HG22	51:6N:1613:ARG:H	1.64	0.63
13:9d:301:MET:HE3	13:9d:307:PRO:HG2	1.80	0.63
12:Ae:87:PRO:HD3	12:Be:281:TYR:CE1	2.33	0.63
13:Bd:273:ALA:O	13:Bd:375:VAL:N	2.27	0.63
13:Bd:399:TYR:O	13:Bd:402:ARG:NH1	2.31	0.63
12:Cc:193:VAL:HG13	12:Cc:262:ARG:HB2	1.81	0.63
13:Cd:273:ALA:O	13:Cd:375:VAL:N	2.27	0.63
13:Df:406:HIS:CD2	12:Dg:261:PRO:HD3	2.34	0.63
1:0B:37:LEU:HD12	1:0B:68:LEU:HD21	1.79	0.63
1:0E:27:MET:HB3	1:0F:6:VAL:HG22	1.81	0.63
1:0F:198:THR:HB	1:0F:201:LEU:HG	1.81	0.63
1:0F:265:GLU:HA	1:0F:268:LYS:HE2	1.81	0.63
1:0N:98:PHE:CE2	12:Ac:406:MET:HE1	2.33	0.63
1:0O:282:THR:OG1	1:0O:285:LEU:HG	1.98	0.63
1:0Y:380:LEU:O	1:0Y:384:VAL:HG23	1.97	0.63
1:1B:76:ALA:HB1	1:1B:110:VAL:HG13	1.79	0.63
1:1B:198:THR:HB	1:1B:201:LEU:HG	1.81	0.63
5:1L:518:LEU:HB2	13:1b:417:GLU:OE1	1.99	0.63
6:1N:1833:LYS:HE2	6:1N:1886:ARG:HH21	1.64	0.63
30:3F:604:THR:O	30:3F:608:THR:HG23	1.99	0.63
32:3J:395:VAL:O	32:3J:399:LEU:HG	1.99	0.63
34:3P:338:LEU:HD12	34:3P:393:ALA:CB	2.29	0.63
34:3P:506:GLU:HA	34:3S:33:GLN:HE21	1.64	0.63
34:3Q:266:HIS:O	34:3Q:270:ILE:HG12	1.98	0.63
34:3T:38:HIS:CE1	34:3T:452:HIS:CE1	2.87	0.63
34:3T:71:LEU:HG	34:3T:419:LEU:HD21	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3T:502:VAL:HG12	34:3T:506:GLU:OE2	1.99	0.63
34:3V:118:HIS:CE1	34:3V:356:PHE:HB3	2.34	0.63
34:4A:96:HIS:O	34:4A:100:ILE:HG13	1.99	0.63
36:4D:63:HIS:CE1	36:4D:122:HIS:CD2	2.87	0.63
37:4E:1755:LEU:HD12	37:4E:1756:PRO:HD2	1.81	0.63
37:4G:974:VAL:CG1	37:4G:975:VAL:H	2.10	0.63
37:4G:1341:ILE:HD12	37:4G:1341:ILE:N	2.14	0.63
37:4H:540:VAL:CG1	38:4M:72:ARG:NH1	2.62	0.63
38:4J:48:PRO:HD2	38:4J:49:ILE:HD12	1.79	0.63
38:4M:73:PRO:HD2	38:4M:76:PRO:CG	2.27	0.63
38:4N:48:PRO:HD2	38:4N:49:ILE:HD12	1.79	0.63
40:4T:385:THR:HA	40:4T:388:VAL:HG12	1.81	0.63
42:5G:139:LEU:CD2	43:5K:50:ILE:CD1	2.77	0.63
42:5H:91:TYR:CD1	43:5L:42:TYR:HA	2.34	0.63
12:5a:73:MET:HE3	12:5a:92:PHE:HB3	1.81	0.63
12:5c:341:PHE:HB3	12:5c:348:ASN:HD22	1.63	0.63
13:5f:140:ALA:HA	13:5f:171:VAL:HG12	1.81	0.63
47:6B:404:GLU:HG3	48:6E:336:ILE:HD13	1.81	0.63
50:6L:509:ILE:HG22	50:6L:511:ASN:H	1.63	0.63
51:6M:1611:THR:HG22	51:6M:1613:ARG:H	1.64	0.63
12:6g:332:ASN:HD21	12:6g:336:LYS:NZ	1.97	0.63
13:9b:399:TYR:O	13:9b:402:ARG:NH1	2.31	0.63
13:9d:140:ALA:HA	13:9d:171:VAL:HG12	1.81	0.63
13:9f:301:MET:HE3	13:9f:307:PRO:HG2	1.79	0.63
13:Ad:301:MET:HE3	13:Ad:307:PRO:HG2	1.80	0.63
13:Bh:301:MET:HE3	13:Bh:307:PRO:HG2	1.79	0.63
1:0W:368:PRO:HG3	1:0W:410:LYS:HD2	1.79	0.63
1:0I:322:ALA:HB2	1:0I:362:GLN:HG2	1.79	0.63
1:0B:383:LEU:HB3	1:0B:400:CYS:SG	2.38	0.62
1:0E:94:GLU:CD	1:0E:99:TYR:HE2	2.07	0.62
1:0N:246:VAL:HA	10:1R:201:ARG:HH22	1.62	0.62
1:0P:167:GLY:O	1:0P:169:VAL:N	2.31	0.62
1:0Q:160:ALA:O	1:0Q:164:VAL:HG23	1.99	0.62
1:0S:368:PRO:HA	1:0S:410:LYS:HB3	1.81	0.62
2:1F:127:LEU:HD11	2:1F:146:ALA:HB1	1.81	0.62
5:1L:410:VAL:HB	5:1L:449:ILE:HD11	1.80	0.62
10:1S:371:LEU:HB2	13:Bf:214:ARG:HD2	1.80	0.62
13:1d:140:ALA:HA	13:1d:171:VAL:HG12	1.81	0.62
24:2U:176:LYS:HE3	13:Cd:160:ASP:HA	1.80	0.62
13:2f:133:GLN:O	13:2f:165:SER:OG	2.18	0.62
12:2g:67:ASP:OD2	12:2g:72:THR:OG1	2.16	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:3F:312:ARG:HG2	13:6f:159:VAL:HG13	1.80	0.62
34:3M:266:HIS:CE1	34:3M:270:ILE:HD11	2.33	0.62
34:3T:186:GLN:HG3	34:3T:187:VAL:HG23	1.79	0.62
34:3T:482:LEU:HD21	34:3T:486:ARG:CZ	2.29	0.62
34:3Y:263:LYS:HA	34:3Y:266:HIS:NE2	2.14	0.62
37:4E:586:PHE:CE1	43:5L:10:LEU:HD13	2.34	0.62
37:4F:945:ALA:HB2	37:4F:977:PRO:HA	1.80	0.62
37:4F:1322:ARG:C	38:4N:26:GLU:CD	2.67	0.62
37:4G:1335:MET:HA	38:4L:28:VAL:CB	2.28	0.62
37:4H:1341:ILE:HD13	38:4M:31:ALA:N	2.13	0.62
40:4V:385:THR:HA	40:4V:388:VAL:HG12	1.81	0.62
13:4h:140:ALA:HA	13:4h:171:VAL:HG12	1.81	0.62
42:5E:130:ALA:O	42:5E:135:ARG:HG3	1.98	0.62
42:5G:130:ALA:O	42:5G:135:ARG:HG3	1.98	0.62
42:5H:139:LEU:CD1	43:5L:83:HIS:HE1	2.06	0.62
43:5K:87:ILE:HG12	43:5K:146:TYR:CG	2.34	0.62
12:5e:382:SER:O	12:5e:386:THR:HG23	1.99	0.62
13:5h:301:MET:HE3	13:5h:307:PRO:HG2	1.80	0.62
3:6D:1010:LEU:HD23	48:6E:353:ILE:HG23	1.81	0.62
50:6L:554:ASN:O	50:6L:558:THR:HG23	1.98	0.62
12:8e:282:ARG:HH12	12:8e:292:GLN:CD	2.07	0.62
13:9h:399:TYR:O	13:9h:402:ARG:NH1	2.31	0.62
13:Ad:96:LYS:HA	12:Ae:1:MET:HE1	1.82	0.62
13:Bf:62:VAL:HG21	13:Cf:283:HIS:O	1.98	0.62
13:Bf:399:TYR:O	13:Bf:402:ARG:NH1	2.31	0.62
13:Cd:301:MET:HE3	13:Cd:307:PRO:HG2	1.80	0.62
13:Ch:301:MET:HE3	13:Ch:307:PRO:HG2	1.80	0.62
1:0K:122:ILE:HG21	1:0K:162:GLN:NE2	2.14	0.62
1:0N:218:VAL:HB	1:0N:255:LYS:HD2	1.80	0.62
1:0O:413:HIS:HD2	1:0O:416:ALA:HB3	1.64	0.62
1:0R:108:ARG:HD3	1:0R:147:TRP:CB	2.28	0.62
1:0V:173:VAL:HG22	1:0V:210:ALA:HB2	1.80	0.62
1:0X:37:LEU:HG	1:0X:42:ALA:HB3	1.81	0.62
1:1A:37:LEU:HD12	1:1A:68:LEU:HD21	1.81	0.62
1:1B:371:ALA:HB1	1:1B:407:VAL:HA	1.79	0.62
2:1F:120:GLN:HE22	2:1F:156:VAL:HG21	1.64	0.62
4:1J:229:LEU:HD23	4:1J:270:ILE:HG22	1.80	0.62
10:1R:236:GLY:HA3	32:3J:124:ARG:HD3	1.81	0.62
13:1h:140:ALA:HA	13:1h:171:VAL:HG12	1.81	0.62
13:2b:133:GLN:O	13:2b:165:SER:OG	2.18	0.62
13:2h:133:GLN:O	13:2h:165:SER:OG	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:3F:337:PRO:HD3	13:7f:402:ARG:HH22	1.64	0.62
34:3O:276:GLU:HG3	34:3O:452:HIS:CE1	2.35	0.62
34:3X:251:LEU:O	34:3X:254:MET:HG3	1.99	0.62
35:4C:453:LYS:HB3	35:4C:472:SER:OG	1.99	0.62
37:4E:577:LEU:HD23	43:5L:52:LEU:HD22	1.82	0.62
37:4E:1761:TYR:CD2	37:4E:1763:PRO:O	2.52	0.62
37:4F:1081:HIS:CB	37:4F:1338:PHE:CZ	2.71	0.62
37:4G:539:GLN:HE22	37:4G:543:ASN:HD21	1.46	0.62
37:4G:875:PRO:HA	37:4G:1471:LEU:HD13	1.80	0.62
37:4H:1082:LEU:O	38:4M:35:ALA:C	2.42	0.62
38:4J:73:PRO:HD2	38:4J:76:PRO:CG	2.27	0.62
40:4U:607:PRO:O	40:4U:611:GLU:HG2	2.00	0.62
41:4Y:169:LEU:N	43:5J:152:LEU:O	2.29	0.62
43:5J:7:TRP:HE3	43:5J:10:LEU:O	1.82	0.62
43:5J:87:ILE:HG12	43:5J:146:TYR:CG	2.34	0.62
43:5L:7:TRP:HE3	43:5L:10:LEU:O	1.82	0.62
44:5Q:93:PHE:CE2	44:5Q:145:PHE:HD2	2.16	0.62
12:5c:87:PRO:HD3	12:6c:281:TYR:CG	2.34	0.62
13:5d:301:MET:HE3	13:5d:307:PRO:HG2	1.80	0.62
47:6B:966:GLN:HG2	47:6B:1094:VAL:HG21	1.81	0.62
48:6E:1046:THR:HG23	48:6E:1049:GLU:H	1.65	0.62
49:6J:252:GLU:HG3	49:6J:415:HIS:HE1	1.64	0.62
12:7g:86:ARG:CD	12:8g:281:TYR:HB3	2.28	0.62
12:8a:73:MET:HE3	12:8a:92:PHE:HB3	1.81	0.62
13:9d:399:TYR:O	13:9d:402:ARG:NH1	2.31	0.62
13:9f:140:ALA:HA	13:9f:171:VAL:HG12	1.81	0.62
13:9h:301:MET:HE3	13:9h:307:PRO:HG2	1.80	0.62
12:Ba:86:ARG:HD3	12:Ca:281:TYR:HB2	1.79	0.62
12:Ba:417:ASP:O	12:Ba:421:GLU:HG2	1.99	0.62
13:Bb:178:SER:OG	12:Bc:347:ASN:ND2	2.32	0.62
12:Cc:248:ALA:HA	12:Cc:252:LYS:HE3	1.81	0.62
13:Cf:301:MET:HE3	13:Cf:307:PRO:HG2	1.80	0.62
13:Ch:133:GLN:O	13:Ch:165:SER:OG	2.18	0.62
13:Dd:133:GLN:O	13:Dd:165:SER:OG	2.18	0.62
1:0C:117:LEU:O	1:0C:121:VAL:HG23	1.99	0.62
1:0C:343:ALA:O	1:0C:347:GLU:HG3	1.99	0.62
1:0D:373:ALA:O	1:0D:377:THR:HG23	1.99	0.62
1:0F:45:LEU:O	1:0F:49:LEU:HD23	2.00	0.62
1:0L:11:GLU:HG2	1:0L:15:LYS:NZ	2.15	0.62
1:0R:200:GLU:HG3	3:6D:516:PHE:HB2	1.80	0.62
1:0R:363:ILE:HG22	1:0R:370:HIS:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0U:349:GLU:HB3	1:0U:351:HIS:CE1	2.34	0.62
1:0V:101:GLN:NE2	12:2c:406:MET:SD	2.72	0.62
1:1B:131:VAL:HA	1:1B:134:LEU:HD12	1.80	0.62
1:1B:220:ASN:O	1:1B:226:LYS:NZ	2.32	0.62
1:1C:122:ILE:HG21	1:1C:162:GLN:NE2	2.14	0.62
2:1D:18:LEU:HD23	2:1F:55:ALA:HB2	1.81	0.62
3:1H:265:TRP:CE3	47:6A:350:ARG:HD2	2.34	0.62
3:1H:949:LYS:HA	47:6A:385:GLU:CG	2.28	0.62
3:1H:1005:PRO:CD	47:6A:406:ARG:NH2	2.60	0.62
10:1S:381:THR:HG21	10:1S:386:LEU:HB2	1.82	0.62
31:3I:145:GLU:O	31:3I:149:VAL:HG23	1.98	0.62
31:3I:285:ARG:CZ	31:3I:285:ARG:HB3	2.27	0.62
34:3N:484:GLU:HG3	34:3U:248:PHE:HZ	1.64	0.62
34:3P:334:LEU:HD11	34:3P:396:ALA:HB3	1.81	0.62
34:3R:263:LYS:HA	34:3R:266:HIS:NE2	2.14	0.62
35:4C:538:PHE:CZ	37:4E:1730:LEU:HB2	2.34	0.62
37:4E:582:GLN:CB	43:5L:34:ALA:HA	2.26	0.62
37:4E:590:LYS:C	43:5L:20:HIS:HA	2.24	0.62
37:4E:930:VAL:HG22	37:4E:964:PRO:HD3	1.80	0.62
37:4G:567:LEU:CD1	38:4I:32:GLU:OE1	2.47	0.62
37:4G:945:ALA:HB2	37:4G:977:PRO:HA	1.81	0.62
37:4H:1315:VAL:O	37:4H:1322:ARG:C	2.42	0.62
38:4N:54:GLU:HA	38:4N:58:VAL:HG22	1.79	0.62
40:4T:69:VAL:HG21	40:4T:410:LEU:HD21	1.80	0.62
40:4T:607:PRO:O	40:4T:611:GLU:HG2	2.00	0.62
40:4U:385:THR:HA	40:4U:388:VAL:HG12	1.81	0.62
12:4g:391:ARG:NH2	13:4h:438:GLU:O	2.27	0.62
42:5F:130:ALA:O	42:5F:135:ARG:HG3	1.98	0.62
42:5H:95:GLU:O	42:5H:98:PHE:HB3	1.99	0.62
42:5H:137:TYR:CD1	43:5L:45:ASN:HB3	2.34	0.62
13:5b:133:GLN:O	13:5b:165:SER:OG	2.18	0.62
13:5d:140:ALA:HA	13:5d:171:VAL:HG12	1.81	0.62
13:5h:133:GLN:O	13:5h:165:SER:OG	2.18	0.62
48:6F:1046:THR:HG23	48:6F:1049:GLU:H	1.65	0.62
12:6e:3:GLU:HB3	12:6e:62:ARG:HH21	1.64	0.62
13:7d:399:TYR:O	13:7d:402:ARG:NH1	2.31	0.62
12:9g:391:ARG:NH2	13:9h:438:GLU:O	2.30	0.62
12:Aa:52:ASN:O	12:Aa:60:VAL:HG22	1.99	0.62
13:Ab:133:GLN:O	13:Ab:165:SER:OG	2.18	0.62
13:Ad:399:TYR:O	13:Ad:402:ARG:NH1	2.31	0.62
12:Ae:175:VAL:HG21	13:Af:332:VAL:HG13	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Cg:68:LEU:HD23	12:Cg:143:THR:HG23	1.80	0.62
13:Db:133:GLN:O	13:Db:165:SER:OG	2.18	0.62
13:Df:133:GLN:O	13:Df:165:SER:OG	2.18	0.62
1:0J:371:ALA:HB1	1:0J:407:VAL:HA	1.80	0.62
1:0I:206:VAL:HG21	1:0I:243:LEU:HD22	1.81	0.62
1:0K:164:VAL:HG21	1:0K:201:LEU:HD22	1.80	0.62
1:0A:37:LEU:HG	1:0A:42:ALA:HB3	1.80	0.62
1:0F:282:THR:OG1	1:0F:285:LEU:HG	1.98	0.62
1:0M:134:LEU:HG	1:0M:145:SER:OG	1.99	0.62
1:0Q:33:ASN:O	1:0Q:37:LEU:HG	1.99	0.62
1:0Q:338:PRO:HA	1:0Q:341:VAL:HG22	1.80	0.62
1:1A:196:LYS:HE2	5:1L:585:MET:HG3	1.81	0.62
2:1F:153:GLN:O	2:1F:156:VAL:HG12	1.99	0.62
4:1K:229:LEU:HD23	4:1K:270:ILE:HG22	1.81	0.62
10:1R:39:MET:HG3	10:1R:40:HIS:H	1.64	0.62
12:2c:117:LEU:HA	12:2c:120:VAL:HG22	1.80	0.62
13:2d:133:GLN:O	13:2d:165:SER:OG	2.18	0.62
30:3G:747:ARG:HB3	12:6a:402:GLY:HA3	1.82	0.62
34:3M:273:ARG:HG2	34:3M:459:ILE:HD12	1.80	0.62
34:3O:487:ALA:HA	34:3O:490:GLN:NE2	2.14	0.62
34:3T:91:GLU:CD	34:3T:95:ARG:HD2	2.24	0.62
12:3a:86:ARG:HA	12:4a:281:TYR:CD1	2.35	0.62
35:4C:325:LEU:HD21	35:4C:342:PHE:CZ	2.34	0.62
37:4E:588:PRO:O	43:5L:21:PRO:HB3	1.99	0.62
37:4E:665:GLY:HA2	37:4E:670:GLY:HA3	1.81	0.62
37:4E:734:GLN:HG2	37:4E:742:VAL:HG21	1.82	0.62
37:4E:1111:VAL:HG23	37:4E:1113:VAL:HG23	1.80	0.62
37:4E:1385:ALA:HB2	37:4E:1455:LEU:HD23	1.82	0.62
37:4F:1074:GLN:CD	38:4N:41:LYS:C	2.68	0.62
37:4F:1314:LEU:HD13	37:4F:1753:GLN:HG2	1.80	0.62
37:4G:827:PRO:O	37:4G:854:TYR:HD2	1.82	0.62
37:4G:952:ASP:CG	37:4G:954:SER:H	2.07	0.62
38:4J:75:ASN:C	38:4J:77:VAL:H	2.06	0.62
39:4S:16:ILE:CD1	43:5K:125:GLN:HG2	2.30	0.62
42:5H:135:ARG:HG3	43:5L:52:LEU:O	1.95	0.62
43:5K:7:TRP:HE3	43:5K:10:LEU:O	1.81	0.62
43:5K:24:LYS:HD3	43:5K:24:LYS:N	2.15	0.62
13:5b:401:LYS:HE2	12:5c:430:ALA:HA	1.81	0.62
3:6D:168:GLN:HB3	3:6D:228:ASN:ND2	2.14	0.62
49:6H:132:ILE:O	49:6H:136:MET:HG2	1.99	0.62
49:6I:252:GLU:HG3	49:6I:415:HIS:HE1	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6I:336:ILE:HG13	49:6I:357:CYS:SG	2.39	0.62
13:6f:133:GLN:O	13:6f:165:SER:OG	2.18	0.62
12:7g:179:VAL:HG23	13:7h:352:LYS:HB2	1.80	0.62
12:8a:215:LEU:HD21	12:8a:273:LEU:HD22	1.82	0.62
12:Ba:107:THR:O	12:Ba:111:GLU:HG2	1.99	0.62
12:Be:95:THR:HA	13:Bf:133:GLN:HE22	1.64	0.62
12:Be:212:PHE:O	12:Be:216:LYS:HG2	1.99	0.62
12:Cc:261:PRO:O	12:Cc:262:ARG:HG2	1.98	0.62
13:Cd:133:GLN:O	13:Cd:165:SER:OG	2.18	0.62
13:Cf:133:GLN:O	13:Cf:165:SER:OG	2.18	0.62
13:Db:406:HIS:CD2	12:Dc:261:PRO:HD3	2.34	0.62
13:Dd:222:PRO:HD2	12:De:324:LYS:HG2	1.82	0.62
12:Dg:67:ASP:OD2	12:Dg:72:THR:OG1	2.15	0.62
13:Dh:133:GLN:O	13:Dh:165:SER:OG	2.18	0.62
1:0W:265:GLU:HA	1:0W:268:LYS:HE2	1.81	0.62
1:0I:80:VAL:HG21	1:0I:117:LEU:HD22	1.81	0.62
1:0B:225:LEU:O	1:0B:229:VAL:HG22	2.00	0.62
1:0M:282:THR:OG1	1:0M:285:LEU:HG	1.99	0.62
1:0O:37:LEU:HD12	1:0O:68:LEU:HD21	1.81	0.62
1:0P:89:VAL:HG21	1:0P:125:GLY:HA3	1.80	0.62
1:0R:70:ASN:OD1	1:0R:112:ARG:NH2	2.32	0.62
1:0R:238:LYS:HZ1	1:0R:239:HIS:CE1	2.18	0.62
1:0U:164:VAL:HG21	1:0U:201:LEU:HD22	1.80	0.62
1:0Y:225:LEU:O	1:0Y:229:VAL:HG22	1.99	0.62
1:0Z:363:ILE:HG22	1:0Z:370:HIS:HB3	1.80	0.62
1:1A:358:TRP:HB2	1:1A:399:LYS:HD2	1.81	0.62
1:1B:76:ALA:HB3	1:1B:117:LEU:HD21	1.81	0.62
1:1B:354:SER:O	1:1B:399:LYS:HG2	1.99	0.62
4:1J:82:ILE:CD1	47:6B:91:PRO:HB2	2.28	0.62
4:1K:152:MET:HE2	12:Be:424:GLN:HE22	1.63	0.62
5:1M:492:PHE:HB2	12:1g:406:MET:HE2	1.80	0.62
6:1N:977:GLU:HG2	6:1N:1034:TRP:NE1	2.14	0.62
10:1S:175:ARG:NH2	13:Af:423:GLU:HA	2.14	0.62
20:2N:29:UNK:HA	13:6f:282:TYR:HB3	1.80	0.62
24:2S:135:ARG:O	13:Cb:96:LYS:HD3	1.99	0.62
12:2c:67:ASP:OD2	12:2c:72:THR:OG1	2.16	0.62
30:3F:328:ILE:HG13	30:3F:328:ILE:O	2.00	0.62
30:3F:431:LYS:HD3	13:7d:417:GLU:OE2	1.99	0.62
30:3G:758:GLU:OE2	12:6a:191:GLN:NE2	2.31	0.62
32:3J:357:CYS:O	32:3J:358:ARG:HG2	2.00	0.62
34:3T:325:ASP:O	34:3T:329:THR:HG23	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3b:133:GLN:O	13:3b:165:SER:OG	2.18	0.62
13:3d:133:GLN:O	13:3d:165:SER:OG	2.18	0.62
37:4F:1093:VAL:HA	38:4N:36:VAL:HG22	0.64	0.62
37:4G:854:TYR:CZ	38:4L:82:TYR:CE2	2.88	0.62
37:4G:958:LEU:HG	37:4G:959:LEU:N	2.15	0.62
37:4G:1328:ASP:OD2	37:4G:1330:ALA:N	2.32	0.62
40:4U:357:ARG:O	40:4U:361:VAL:HG23	2.00	0.62
40:4V:607:PRO:O	40:4V:611:GLU:HG2	2.00	0.62
43:5I:46:PRO:HA	43:5I:49:ALA:HB3	1.79	0.62
43:5I:110:GLN:OE1	43:5I:117:GLY:HA3	2.00	0.62
43:5K:110:GLN:OE1	43:5K:117:GLY:HA3	2.00	0.62
13:5f:133:GLN:O	13:5f:165:SER:OG	2.18	0.62
47:6A:905:SER:OG	47:6A:906:ARG:NH1	2.33	0.62
49:6J:336:ILE:HG13	49:6J:357:CYS:SG	2.39	0.62
12:6a:235:GLY:HA3	12:6a:366:THR:HG21	1.81	0.62
13:6d:133:GLN:O	13:6d:165:SER:OG	2.18	0.62
13:6h:133:GLN:O	13:6h:165:SER:OG	2.18	0.62
12:8a:207:LEU:HB3	12:8a:225:LEU:HD22	1.81	0.62
13:9b:140:ALA:HA	13:9b:171:VAL:HG12	1.81	0.62
13:Af:133:GLN:O	13:Af:165:SER:OG	2.18	0.62
13:Af:399:TYR:O	13:Af:402:ARG:NH1	2.31	0.62
13:Ah:399:TYR:O	13:Ah:402:ARG:NH1	2.31	0.62
13:Bb:301:MET:HE3	13:Bb:307:PRO:HG2	1.80	0.62
13:Cb:133:GLN:O	13:Cb:165:SER:OG	2.18	0.62
12:Cc:415:MET:O	12:Cc:419:VAL:HG23	1.99	0.62
12:Da:99:ASN:HA	12:Da:142:GLY:H	1.64	0.62
12:De:20:PHE:HA	12:De:230:SER:HB2	1.81	0.62
1:0I:253:PHE:HZ	1:0I:278:VAL:HG21	1.63	0.62
1:0A:370:HIS:O	1:0A:374:VAL:HG23	2.00	0.62
1:0C:265:GLU:HA	1:0C:268:LYS:HE2	1.80	0.62
1:0L:358:TRP:HB2	1:0L:399:LYS:HD2	1.81	0.62
1:0M:265:GLU:HA	1:0M:268:LYS:HE2	1.81	0.62
1:0N:363:ILE:HG22	1:0N:370:HIS:HB3	1.81	0.62
1:0Q:38:GLN:HG3	1:0Q:75:LEU:HD21	1.82	0.62
1:0S:380:LEU:HD21	1:0S:407:VAL:HG21	1.81	0.62
1:0T:21:VAL:HG22	1:0T:49:LEU:HD13	1.80	0.62
1:0T:370:HIS:O	1:0T:374:VAL:HG23	2.00	0.62
1:0Z:92:LEU:HD11	1:0Z:107:LEU:HD11	1.81	0.62
2:1E:189:LEU:HD23	2:1E:192:LEU:HD12	1.82	0.62
5:1L:518:LEU:HG	13:1b:192:HIS:CD2	2.34	0.62
5:1M:410:VAL:HB	5:1M:449:ILE:HD11	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1N:447:LEU:HD23	6:1N:452:LEU:HD13	1.81	0.62
12:1a:208:TYR:HA	12:1a:211:CYS:SG	2.39	0.62
12:1g:320:ARG:HB3	16:2I:4:UNK:CA	2.29	0.62
23:2R:80:UNK:H	12:3a:213:ARG:NH2	1.98	0.62
12:2e:73:MET:HE3	12:2e:92:PHE:HB3	1.81	0.62
30:3F:437:ILE:HG23	13:7d:159:VAL:HG22	1.80	0.62
32:3K:57:GLU:HB3	32:3K:60:LYS:HE2	1.81	0.62
34:3R:248:PHE:HE2	34:3W:485:TYR:CA	2.09	0.62
34:3T:92:THR:HA	34:3T:95:ARG:HD3	1.81	0.62
34:3Y:263:LYS:HA	34:3Y:266:HIS:CE1	2.34	0.62
13:3f:133:GLN:O	13:3f:165:SER:OG	2.18	0.62
13:3h:133:GLN:O	13:3h:165:SER:OG	2.18	0.62
13:3h:431:ASP:OD2	39:4Q:167:HIS:CD2	2.52	0.62
34:4B:248:PHE:CB	34:4B:251:LEU:HD13	2.30	0.62
37:4E:1165:ARG:HE	37:4E:1182:ARG:NE	1.95	0.62
37:4F:1077:THR:OG1	37:4F:1081:HIS:O	2.15	0.62
37:4F:1324:THR:N	38:4N:26:GLU:CB	2.58	0.62
37:4G:529:VAL:N	37:4G:530:PRO:HD2	2.14	0.62
37:4G:529:VAL:HG11	38:4I:66:GLN:NE2	2.15	0.62
37:4G:686:HIS:CE1	38:4I:51:GLN:CD	2.78	0.62
37:4G:853:VAL:CG1	37:4G:854:TYR:N	2.62	0.62
38:4K:77:VAL:CG2	38:4N:57:VAL:CG1	2.77	0.62
41:4Z:81:TYR:O	41:4Z:87:VAL:HA	2.00	0.62
12:4a:134:GLN:HA	12:4a:165:LEU:O	1.99	0.62
41:5C:126:TYR:H	41:5C:133:ARG:HA	1.64	0.62
42:5H:10:PHE:CE1	42:5H:15:LEU:HB2	2.33	0.62
42:5H:93:GLU:O	43:5L:44:THR:O	2.17	0.62
42:5H:139:LEU:O	42:5H:140:TYR:C	2.43	0.62
42:5H:158:MET:CG	43:5L:158:HIS:CG	2.81	0.62
43:5J:24:LYS:HD3	43:5J:24:LYS:N	2.15	0.62
43:5K:12:SER:HB2	43:5K:69:ASP:OD2	2.00	0.62
13:5d:133:GLN:O	13:5d:165:SER:OG	2.18	0.62
47:6B:172:LEU:HD11	13:Ch:390:ARG:HD3	1.82	0.62
47:6B:381:GLN:CA	3:6D:848:ARG:HD2	2.30	0.62
47:6B:905:SER:OG	47:6B:906:ARG:NH1	2.33	0.62
3:6D:258:GLY:O	3:6D:262:GLU:HG2	2.00	0.62
49:6G:252:GLU:HG3	49:6G:415:HIS:HE1	1.64	0.62
49:6H:252:GLU:HG3	49:6H:415:HIS:HE1	1.64	0.62
13:6b:133:GLN:O	13:6b:165:SER:OG	2.18	0.62
12:6e:3:GLU:HB3	12:6e:62:ARG:NH2	2.14	0.62
12:6e:60:VAL:CB	12:6e:86:ARG:HD3	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6g:332:ASN:HD21	12:6g:336:LYS:HZ1	1.48	0.62
13:7d:224:TYR:CD1	12:7e:323:THR:HG21	2.35	0.62
13:Ab:399:TYR:O	13:Ab:402:ARG:NH1	2.31	0.62
13:Ad:133:GLN:O	13:Ad:165:SER:OG	2.18	0.62
13:Cb:224:TYR:HE2	12:Cc:246:LEU:HB2	1.64	0.62
1:0H:89:VAL:HG21	1:0H:125:GLY:HA3	1.81	0.62
1:0H:167:GLY:O	1:0H:169:VAL:N	2.31	0.62
1:0J:220:ASN:O	1:0J:226:LYS:NZ	2.31	0.62
1:0A:143:GLU:OE2	1:0A:182:SER:HB2	2.00	0.62
1:0C:21:VAL:HG22	1:0C:49:LEU:HD13	1.80	0.62
1:0F:55:PRO:HB3	1:0F:96:ASN:HD21	1.63	0.62
1:0U:265:GLU:HA	1:0U:268:LYS:HE2	1.81	0.62
1:0Y:37:LEU:HD12	1:0Y:68:LEU:HD21	1.79	0.62
2:1E:88:LEU:HA	2:1E:91:CYS:SG	2.39	0.62
3:1I:917:PRO:O	3:1I:919:GLU:N	2.33	0.62
6:1N:75:GLN:HG3	6:1N:87:LEU:HD22	1.79	0.62
6:1N:1451:ILE:HD11	6:1N:1511:VAL:HG22	1.80	0.62
8:1P:791:MET:HE2	8:1P:796:LYS:HG2	1.80	0.62
10:1R:109:ARG:NH2	12:9c:110:ALA:HB3	2.15	0.62
28:3C:535:ARG:CB	13:4h:339:ARG:HD3	2.26	0.62
32:3J:348:ARG:HH12	12:9a:417:ASP:HB3	1.65	0.62
34:3Q:387:VAL:O	34:3Q:391:GLU:HG2	1.99	0.62
34:3S:83:GLU:HB2	34:3U:40:ASN:HD21	1.65	0.62
34:3V:383:ARG:O	34:3V:387:VAL:HG23	2.00	0.62
13:3d:140:ALA:HA	13:3d:171:VAL:HG12	1.81	0.62
13:3h:140:ALA:HA	13:3h:171:VAL:HG12	1.81	0.62
35:4C:817:ASN:OD1	35:4C:843:MET:HG2	1.99	0.62
37:4E:581:LEU:N	43:5L:35:LYS:CD	2.61	0.62
37:4F:875:PRO:HA	37:4F:1471:LEU:HD13	1.80	0.62
37:4F:1091:VAL:O	38:4N:37:GLY:N	2.32	0.62
37:4F:1321:THR:O	37:4F:1321:THR:OG1	2.15	0.62
37:4F:1753:GLN:OE1	38:4N:24:THR:N	2.32	0.62
37:4H:525:GLU:HG2	37:4H:1078:PRO:HB2	1.81	0.62
40:4T:357:ARG:O	40:4T:361:VAL:HG23	2.00	0.62
40:4U:69:VAL:HG21	40:4U:410:LEU:HD21	1.80	0.62
40:4U:822:TRP:CZ3	40:4U:826:ALA:HB2	2.35	0.62
40:4V:357:ARG:O	40:4V:361:VAL:HG23	2.00	0.62
40:4V:822:TRP:CZ3	40:4V:826:ALA:HB2	2.35	0.62
43:5I:24:LYS:HD3	43:5I:24:LYS:N	2.15	0.62
43:5L:24:LYS:HD3	43:5L:24:LYS:N	2.15	0.62
49:6G:132:ILE:O	49:6G:136:MET:HG2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:7e:404:ASP:C	12:7e:406:MET:H	2.08	0.62
12:8a:415:MET:O	12:8a:419:VAL:HG23	2.00	0.62
12:8g:11:GLN:HE22	13:8h:249:ASN:H	1.48	0.62
13:Af:273:ALA:O	13:Af:375:VAL:N	2.27	0.62
13:Ah:133:GLN:O	13:Ah:165:SER:OG	2.18	0.62
13:Bd:301:MET:HE3	13:Bd:307:PRO:HG2	1.80	0.62
12:Be:86:ARG:HD2	12:Ce:281:TYR:CB	2.30	0.62
12:Be:172:SER:HB2	12:Be:205:GLU:HG3	1.80	0.62
13:Bf:273:ALA:O	13:Bf:375:VAL:N	2.27	0.62
13:Bh:140:ALA:HA	13:Bh:171:VAL:HG12	1.81	0.62
13:Bh:399:TYR:O	13:Bh:402:ARG:NH1	2.31	0.62
12:De:11:GLN:HG3	13:Df:249:ASN:HB2	1.81	0.62
1:0D:286:ALA:HB1	1:0D:320:ILE:HG22	1.81	0.62
1:0F:380:LEU:O	1:0F:384:VAL:HG23	2.00	0.62
1:0P:85:LEU:HD11	1:0P:107:LEU:HD23	1.81	0.62
1:0Q:384:VAL:HG21	1:0Q:423:ARG:NE	2.15	0.62
1:0U:47:ARG:HB2	1:0U:84:ILE:HG12	1.81	0.62
1:0U:206:VAL:HG21	1:0U:243:LEU:HD22	1.81	0.62
1:0X:363:ILE:HG22	1:0X:370:HIS:HB3	1.81	0.62
1:1B:284:GLU:O	1:1B:288:LEU:HG	1.99	0.62
5:1M:453:VAL:H	5:1M:459:GLN:HE22	1.46	0.62
6:1N:701:LEU:HD12	6:1N:704:LEU:HD12	1.82	0.62
6:1N:1052:LEU:HD22	6:1N:1566:GLU:HG2	1.81	0.62
7:1O:171:LEU:HD11	7:1O:210:PHE:CZ	2.35	0.62
9:1Q:369:ALA:HB2	9:1Q:865:LYS:HG3	1.81	0.62
10:1S:172:VAL:HG11	13:Af:396:ASP:CG	2.25	0.62
12:1a:99:ASN:HB2	13:1b:258:ASN:HD21	1.64	0.62
12:1c:323:THR:HA	12:1c:326:VAL:HG12	1.80	0.62
12:1e:73:MET:HE3	12:1e:92:PHE:HB3	1.81	0.62
12:1e:208:TYR:CZ	12:1e:225:LEU:HD11	2.34	0.62
13:2f:273:ALA:O	13:2f:375:VAL:N	2.27	0.62
30:3F:640:ALA:O	30:3F:644:ARG:HG2	2.00	0.62
34:3P:498:LEU:O	34:3P:502:VAL:HG23	1.99	0.62
34:3S:75:GLN:HE21	34:3S:419:LEU:HD22	1.65	0.62
34:3T:335:SER:O	34:3T:339:GLU:HG3	1.99	0.62
34:3U:83:GLU:O	34:3U:86:GLN:HG2	2.00	0.62
13:3d:196:GLU:HA	39:4S:172:THR:HG22	1.81	0.62
13:3f:73:THR:OG1	12:3g:247:ASN:ND2	2.33	0.62
12:3g:175:VAL:HG11	13:3h:332:VAL:HG13	1.81	0.62
37:4E:582:GLN:CB	43:5L:34:ALA:O	2.32	0.62
37:4E:1626:VAL:HG12	37:4E:1634:PHE:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1154:ARG:HG3	37:4F:1164:GLU:HG2	1.81	0.62
37:4G:585:VAL:HG23	43:5I:56:VAL:HG22	1.81	0.62
37:4G:856:MET:HE2	38:4L:85:LEU:CD2	2.30	0.62
37:4G:1082:LEU:CD2	37:4G:1101:LEU:HD11	2.29	0.62
37:4H:1299:ARG:HD3	37:4H:1303:VAL:CG2	2.30	0.62
40:4T:822:TRP:CZ3	40:4T:826:ALA:HB2	2.35	0.62
40:4U:221:GLN:HG2	40:4U:261:SER:HB3	1.82	0.62
41:4X:81:TYR:O	41:4X:87:VAL:HA	2.00	0.62
42:5H:139:LEU:CD1	43:5L:146:TYR:HD2	2.13	0.62
42:5H:140:TYR:CA	43:5L:47:LYS:HE2	2.28	0.62
43:5J:110:GLN:OE1	43:5J:117:GLY:HA3	2.00	0.62
12:5c:417:ASP:O	12:5c:421:GLU:HG2	2.00	0.62
47:6B:603:PHE:O	47:6B:607:THR:HG23	1.99	0.62
3:6D:988:TRP:CE3	3:6D:991:ILE:HD12	2.34	0.62
49:6G:273:ILE:HG22	49:6G:279:THR:HA	1.81	0.62
49:6J:262:ASN:OD1	49:6J:262:ASN:N	2.33	0.62
13:7f:399:TYR:O	13:7f:402:ARG:NH1	2.31	0.62
12:8g:178:THR:CG2	12:8g:181:GLU:HG3	2.29	0.62
13:8h:133:GLN:O	13:8h:165:SER:OG	2.18	0.62
12:9a:389:PHE:CD1	12:9a:395:LEU:HD11	2.35	0.62
12:9e:58:ARG:NH2	12:Ae:281:TYR:CZ	2.68	0.62
13:Bf:301:MET:HE3	13:Bf:307:PRO:HG2	1.80	0.62
12:Da:396:HIS:CD2	13:Db:263:PRO:HD3	2.34	0.62
1:0A:256:ILE:HG23	1:0A:271:SER:HB3	1.80	0.62
1:0B:271:SER:O	1:0B:275:VAL:HG23	1.99	0.62
1:0C:92:LEU:HD11	1:0C:107:LEU:HD11	1.81	0.62
1:0D:265:GLU:HA	1:0D:268:LYS:HE2	1.81	0.62
1:0F:261:LYS:HE3	39:4Q:139:GLU:HB2	1.81	0.62
1:0R:278:VAL:HG13	1:0R:285:LEU:HD23	1.81	0.62
1:1B:110:VAL:HG12	1:1B:117:LEU:HG	1.81	0.62
1:1B:172:LEU:O	1:1B:176:VAL:HG23	2.00	0.62
2:1E:135:VAL:HG22	2:1E:175:SER:HB2	1.82	0.62
3:1H:925:ASN:HD22	4:1J:218:ARG:HH22	1.45	0.62
10:1S:393:ALA:O	13:Af:123:ARG:NH2	2.32	0.62
13:2h:273:ALA:O	13:2h:375:VAL:N	2.27	0.62
31:3I:285:ARG:CZ	13:9h:396:ASP:CB	2.73	0.62
31:3I:311:ARG:NH1	13:8h:409:VAL:O	2.30	0.62
34:3O:431:GLY:O	34:3O:435:SER:HB2	2.00	0.62
34:3R:263:LYS:HA	34:3R:266:HIS:CE1	2.35	0.62
34:3Y:503:ASN:O	34:3Y:507:VAL:HG23	2.00	0.62
13:3d:222:PRO:HD2	12:3e:324:LYS:HG2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3f:140:ALA:HA	13:3f:171:VAL:HG12	1.81	0.62
13:3f:403:ALA:HB2	12:3g:344:TRP:HZ3	1.63	0.62
35:4C:1078:LEU:HD12	35:4C:1079:THR:H	1.65	0.62
37:4E:575:SER:CB	43:5L:30:ARG:HB3	2.30	0.62
37:4E:582:GLN:HE22	43:5L:52:LEU:CD1	2.10	0.62
37:4E:832:LEU:O	37:4E:836:VAL:HG23	2.00	0.62
37:4E:1819:SER:OG	37:4E:1821:PRO:HD2	2.00	0.62
37:4F:1082:LEU:HD22	38:4N:39:HIS:HA	1.80	0.62
37:4G:959:LEU:O	37:4G:970:SER:CA	2.46	0.62
37:4G:1082:LEU:CG	38:4L:36:VAL:HA	2.25	0.62
37:4G:1323:ILE:N	38:4L:26:GLU:HG2	2.13	0.62
37:4G:1333:VAL:HG13	38:4L:27:ALA:H	1.65	0.62
37:4G:1335:MET:HE3	37:4G:1338:PHE:HB2	1.81	0.62
37:4H:1082:LEU:HD12	38:4M:39:HIS:HB2	1.80	0.62
37:4H:1335:MET:HB2	37:4H:1338:PHE:H	1.64	0.62
39:4S:22:LYS:CE	43:5K:105:LEU:HD13	2.30	0.62
40:4T:221:GLN:HG2	40:4T:261:SER:HB3	1.82	0.62
41:5B:126:TYR:H	41:5B:133:ARG:HA	1.64	0.62
42:5H:49:ILE:CD1	43:5L:144:TYR:HA	2.28	0.62
42:5H:85:CYS:HB2	43:5L:47:LYS:CD	2.29	0.62
43:5J:107:HIS:O	43:5J:118:LEU:N	2.31	0.62
47:6B:1587:ALA:HA	47:6B:1592:LEU:HB2	1.81	0.62
47:6B:1842:SER:HB2	50:6K:574:GLU:OE1	2.00	0.62
48:6E:518:THR:HG21	48:6E:520:GLN:HE21	1.64	0.62
51:6M:1593:LEU:HD21	51:6M:1606:LEU:HD12	1.80	0.62
51:6N:2150:THR:HA	51:6N:2257:THR:HA	1.82	0.62
12:6a:73:MET:HE3	12:6a:92:PHE:HB3	1.81	0.62
12:6a:109:GLY:HA2	12:6a:147:MET:SD	2.40	0.62
13:7b:133:GLN:O	13:7b:165:SER:OG	2.18	0.62
13:7b:399:TYR:O	13:7b:402:ARG:NH1	2.31	0.62
12:8a:134:GLN:HA	12:8a:165:LEU:O	2.00	0.62
13:Ab:273:ALA:O	13:Ab:375:VAL:N	2.27	0.62
13:Bd:140:ALA:HA	13:Bd:171:VAL:HG12	1.81	0.62
12:Dc:67:ASP:OD2	12:Dc:72:THR:OG1	2.16	0.62
13:Dh:207:GLU:OE1	13:Dh:304:LYS:NZ	2.30	0.62
1:0D:358:TRP:HB2	1:0D:399:LYS:HD2	1.81	0.62
1:0S:80:VAL:HG22	1:0S:85:LEU:HD11	1.82	0.62
1:0T:114:SER:OG	1:0T:116:GLU:HG3	2.00	0.62
1:0U:63:LEU:CD2	5:1M:594:PRO:HG3	2.28	0.62
1:1B:254:PRO:HA	1:1B:257:LEU:HD12	1.80	0.62
1:1C:164:VAL:HG21	1:1C:201:LEU:HD22	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:286:ALA:O	1:1C:290:VAL:HG23	2.00	0.62
3:1H:991:ILE:HG21	3:1H:1010:LEU:HD13	1.82	0.62
31:3I:150:GLU:HA	31:3I:153:GLU:OE1	1.99	0.62
32:3J:103:MET:HG3	12:Ac:424:GLN:HG3	1.82	0.62
33:3L:55:ASN:HB3	33:3L:57:LEU:CD1	2.30	0.62
34:3N:204:MET:HE1	34:3Q:288:MET:C	2.24	0.62
34:3U:93:VAL:HG13	34:3U:397:LEU:HB3	1.80	0.62
34:3U:111:ILE:HD12	34:3U:383:ARG:HH11	1.65	0.62
34:3U:370:GLU:HA	34:3Z:360:VAL:HG23	1.82	0.62
13:3b:140:ALA:HA	13:3b:171:VAL:HG12	1.81	0.62
13:3f:100:ALA:HB1	12:3g:252:LYS:HA	1.81	0.62
36:4D:63:HIS:HE1	36:4D:122:HIS:NE2	1.98	0.62
37:4E:581:LEU:H	43:5L:35:LYS:HE2	1.65	0.62
37:4G:664:TYR:CG	38:4I:43:ASN:HB3	2.34	0.62
37:4G:1136:ARG:HB2	38:4L:33:LYS:HE2	1.82	0.62
40:4U:408:CYS:SG	40:4U:409:TYR:N	2.73	0.62
41:4Z:86:TYR:HA	41:4Z:105:TYR:HA	1.82	0.62
41:5A:143:MET:O	41:5A:144:HIS:C	2.42	0.62
42:5H:91:TYR:C	43:5L:41:ASP:HB3	2.23	0.62
43:5K:42:TYR:H	43:5K:42:TYR:HD2	1.47	0.62
13:5f:407:TRP:NE1	12:5g:258:ILE:O	2.32	0.62
3:6D:232:CYS:SG	3:6D:267:LEU:HA	2.40	0.62
49:6G:336:ILE:HG13	49:6G:357:CYS:SG	2.39	0.62
49:6H:336:ILE:HG13	49:6H:357:CYS:SG	2.39	0.62
50:6L:179:GLU:HG3	50:6L:375:VAL:HG11	1.81	0.62
51:6M:2150:THR:HA	51:6M:2257:THR:HA	1.82	0.62
51:6N:1593:LEU:HD21	51:6N:1606:LEU:HD12	1.80	0.62
12:7e:86:ARG:NH1	12:8e:281:TYR:HA	2.15	0.62
12:Ag:67:ASP:OD2	12:Ag:72:THR:OG1	2.16	0.62
12:Cg:274:THR:HG22	12:Cg:282:ARG:HD3	1.81	0.62
1:0F:322:ALA:HB2	1:0F:362:GLN:HG2	1.81	0.61
1:0L:286:ALA:HB1	1:0L:320:ILE:HG12	1.82	0.61
1:0O:4:ARG:HH12	13:Ad:192:HIS:HE1	1.48	0.61
1:0T:182:SER:O	1:0T:185:ARG:HG2	2.00	0.61
1:0T:195:SER:O	1:0T:239:HIS:NE2	2.33	0.61
1:1A:282:THR:OG1	1:1A:285:LEU:HG	2.00	0.61
1:1B:21:VAL:HA	1:1B:24:VAL:HG22	1.82	0.61
7:1O:84:LEU:HD21	7:1O:125:CYS:HB2	1.82	0.61
25:2W:27:UNK:HA	13:2b:264:ARG:CZ	2.30	0.61
13:2h:140:ALA:HA	13:2h:171:VAL:HG12	1.81	0.61
32:3J:305:MET:HG3	12:Aa:309:ARG:HG3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3N:451:ARG:O	34:3N:455:THR:HG23	2.00	0.61
34:3O:496:TYR:HB3	34:3O:500:TYR:OH	2.00	0.61
34:3V:386:HIS:O	34:3V:390:LEU:HG	2.00	0.61
35:4C:291:PHE:CD2	35:4C:315:VAL:HG12	2.35	0.61
36:4D:33:ARG:HH22	36:4D:144:ARG:HD2	1.65	0.61
37:4E:1083:ILE:HD13	37:4E:1352:PRO:HB3	1.80	0.61
37:4F:510:HIS:CD2	38:4N:70:LYS:CE	2.77	0.61
37:4F:1341:ILE:HD12	38:4N:30:ALA:HB1	1.82	0.61
37:4G:526:ARG:NH2	37:4G:680:VAL:HB	2.14	0.61
37:4G:526:ARG:HH22	37:4G:681:GLU:CD	2.08	0.61
37:4G:826:LEU:CD1	38:4L:85:LEU:HD21	2.30	0.61
37:4H:1333:VAL:O	37:4H:1341:ILE:N	2.33	0.61
40:4T:408:CYS:SG	40:4T:409:TYR:N	2.73	0.61
42:5H:135:ARG:HD3	43:5L:56:VAL:H	1.64	0.61
42:5H:141:GLN:CB	43:5L:47:LYS:HD3	2.30	0.61
43:5I:107:HIS:O	43:5I:118:LEU:N	2.31	0.61
43:5K:162:VAL:HG22	43:5K:164:GLU:HG3	1.81	0.61
44:5R:120:LEU:HD23	44:5R:125:VAL:HG22	1.82	0.61
47:6A:1587:ALA:HA	47:6A:1592:LEU:HB2	1.81	0.61
48:6E:391:ILE:HG13	48:6E:407:LEU:HD13	1.81	0.61
49:6I:262:ASN:OD1	49:6I:262:ASN:N	2.33	0.61
49:6J:132:ILE:O	49:6J:136:MET:HG2	1.99	0.61
13:6d:407:TRP:HB3	12:6e:255:VAL:HG23	1.82	0.61
12:8a:99:ASN:HA	12:8a:142:GLY:H	1.63	0.61
13:8b:55:GLU:O	13:9b:285:GLN:NE2	2.33	0.61
13:9b:133:GLN:O	13:9b:165:SER:OG	2.18	0.61
13:9d:96:LYS:HA	12:9e:1:MET:CE	2.30	0.61
12:Ag:140:GLY:HA2	12:Ag:184:ASN:HB2	1.82	0.61
12:Be:87:PRO:HG2	12:Ce:278:SER:OG	2.00	0.61
12:Cg:55:THR:HG22	12:Dg:284:LEU:H	1.65	0.61
1:0I:33:ASN:O	1:0I:37:LEU:HG	1.99	0.61
1:0I:219:ILE:HG12	1:0I:255:LYS:HG2	1.81	0.61
1:0D:282:THR:OG1	1:0D:285:LEU:HG	2.00	0.61
1:0L:71:TYR:CE1	31:3I:496:LEU:HD23	2.35	0.61
1:0O:358:TRP:HB2	1:0O:399:LYS:HD2	1.82	0.61
1:0Q:400:CYS:O	1:0Q:404:LEU:HG	2.00	0.61
1:0U:225:LEU:O	1:0U:229:VAL:HG22	2.00	0.61
1:0Y:160:ALA:O	1:0Y:164:VAL:HG23	2.00	0.61
1:0Z:21:VAL:HG22	1:0Z:49:LEU:HD13	1.81	0.61
1:1A:286:ALA:HB1	1:1A:320:ILE:HG22	1.82	0.61
1:1A:341:VAL:HA	1:1A:344:LEU:HD12	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1Q:824:GLU:HA	9:1Q:857:ALA:HB2	1.80	0.61
12:1c:341:PHE:HB3	12:1c:348:ASN:HD22	1.65	0.61
13:1d:133:GLN:O	13:1d:165:SER:OG	2.18	0.61
24:2T:126:ASN:ND2	24:2T:132:ARG:HA	2.16	0.61
30:3G:761:VAL:O	30:3G:765:THR:HG23	2.00	0.61
32:3J:334:ALA:H	12:9a:197:ASP:HA	1.65	0.61
32:3J:405:ARG:NH2	12:8a:194:GLU:OE2	2.33	0.61
34:3M:64:HIS:O	34:3M:68:LEU:HD23	2.00	0.61
34:3O:496:TYR:HB3	34:3O:500:TYR:CZ	2.35	0.61
34:3X:356:PHE:O	34:3X:360:VAL:HG12	2.00	0.61
34:3Z:266:HIS:HA	34:3Z:463:HIS:CE1	2.35	0.61
35:4C:795:ARG:HH21	37:4E:1701:GLN:HE22	1.48	0.61
37:4F:972:PHE:CD2	37:4F:974:VAL:HG23	2.35	0.61
37:4F:1082:LEU:HD23	38:4N:42:ILE:HD12	1.81	0.61
37:4F:1335:MET:O	37:4F:1709:LEU:HD22	2.00	0.61
37:4G:692:MET:HB2	38:4I:60:VAL:CG2	2.29	0.61
37:4G:1136:ARG:H	38:4L:33:LYS:HE2	1.65	0.61
37:4G:1321:THR:HG22	38:4L:29:LYS:NZ	2.15	0.61
41:4Y:81:TYR:O	41:4Y:87:VAL:HA	2.00	0.61
12:4g:274:THR:HG21	12:4g:279:GLN:HA	1.81	0.61
42:5H:136:HIS:H	42:5H:137:TYR:N	1.97	0.61
43:5K:141:LEU:O	43:5K:144:TYR:HB3	2.00	0.61
43:5L:12:SER:HB2	43:5L:69:ASP:OD2	2.00	0.61
12:5a:135:VAL:HG21	12:5a:152:ILE:HD11	1.81	0.61
12:5e:73:MET:HE3	12:5e:92:PHE:HB3	1.82	0.61
12:5g:67:ASP:OD2	12:5g:72:THR:OG1	2.15	0.61
49:6G:328:CYS:SG	49:6G:356:ILE:HD12	2.40	0.61
49:6I:328:CYS:SG	49:6I:356:ILE:HD12	2.41	0.61
50:6K:462:LEU:HD21	50:6K:492:LEU:HB2	1.81	0.61
13:6f:178:SER:OG	12:6g:347:ASN:ND2	2.33	0.61
13:7h:399:TYR:O	13:7h:402:ARG:NH1	2.31	0.61
13:9b:273:ALA:O	13:9b:375:VAL:N	2.27	0.61
12:9c:391:ARG:NH2	13:9d:438:GLU:O	2.32	0.61
13:Af:140:ALA:HA	13:Af:171:VAL:HG12	1.81	0.61
13:Ah:140:ALA:HA	13:Ah:171:VAL:HG12	1.81	0.61
12:Ce:73:MET:HE3	12:Ce:92:PHE:HB3	1.80	0.61
1:0J:269:LYS:O	1:0J:273:THR:HG23	2.01	0.61
1:0B:47:ARG:HD3	47:6B:123:ALA:HB2	1.82	0.61
1:0B:160:ALA:O	1:0B:164:VAL:HG23	2.00	0.61
1:0M:118:ALA:HB1	1:0M:152:ILE:HG12	1.82	0.61
1:0N:179:PRO:HG2	32:3J:96:LYS:C	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0N:218:VAL:HG12	1:0N:255:LYS:HB3	1.83	0.61
1:0O:315:MET:HG2	1:0O:319:TYR:CE2	2.35	0.61
1:0P:242:ASP:O	1:0P:246:VAL:HG23	1.99	0.61
1:0P:337:LEU:O	1:0P:341:VAL:HG23	2.01	0.61
1:0R:137:PHE:HZ	4:1K:72:PHE:HB3	1.66	0.61
1:0U:394:ASP:OD1	1:0U:395:ASP:N	2.33	0.61
1:0X:227:ARG:NH1	1:0X:264:ASP:OD2	2.34	0.61
1:0Z:193:ASP:HA	1:0Z:196:LYS:HE3	1.82	0.61
1:1A:233:LEU:HD13	1:1A:252:ILE:HD12	1.82	0.61
1:1C:358:TRP:CD1	1:1C:362:GLN:HE22	2.18	0.61
3:1H:922:ALA:CB	4:1J:251:GLN:HG2	2.31	0.61
4:1J:217:VAL:O	4:1J:249:THR:HA	1.99	0.61
5:1L:453:VAL:H	5:1L:459:GLN:HE22	1.46	0.61
7:1O:775:LEU:O	7:1O:779:VAL:HG23	2.00	0.61
10:1S:366:LYS:HB3	12:Bg:291:GLN:HA	1.82	0.61
12:1a:73:MET:HE3	12:1a:92:PHE:HB3	1.80	0.61
13:1f:100:ALA:HB1	12:1g:252:LYS:HA	1.83	0.61
24:2T:131:CYS:HA	24:2T:151:PHE:HA	1.82	0.61
13:2d:140:ALA:HA	13:2d:171:VAL:HG12	1.81	0.61
30:3F:456:ARG:HE	12:7c:402:GLY:C	2.08	0.61
34:3P:368:LEU:O	34:3P:372:GLN:HG3	2.00	0.61
34:3P:485:TYR:CE2	34:3S:482:LEU:HA	2.30	0.61
34:3P:500:TYR:O	34:3P:504:LEU:HG	1.99	0.61
34:3Z:44:LYS:O	34:3Z:48:HIS:ND1	2.32	0.61
12:3e:73:MET:HE3	12:3e:92:PHE:HB3	1.82	0.61
12:3g:55:THR:HG23	12:4g:282:ARG:O	2.00	0.61
35:4C:570:ALA:HB3	43:5L:110:GLN:OE1	2.00	0.61
36:4D:213:TRP:HE3	36:4D:222:TYR:HE2	1.48	0.61
36:4D:244:ALA:O	36:4D:245:HIS:ND1	2.34	0.61
37:4E:546:SER:CB	42:5H:112:THR:H	2.13	0.61
37:4E:1469:GLU:HG3	37:4E:1472:ARG:CZ	2.30	0.61
37:4F:856:MET:SD	38:4N:85:LEU:CD1	2.80	0.61
37:4F:935:ARG:HH22	38:4K:72:ARG:C	2.07	0.61
37:4F:1085:MET:CE	37:4F:1350:ILE:HD12	2.28	0.61
37:4F:1524:LEU:HD23	37:4F:1616:VAL:HG21	1.82	0.61
37:4H:1333:VAL:N	37:4H:1341:ILE:O	2.32	0.61
39:4Q:69:GLY:HA2	44:5P:41:ARG:HD3	1.81	0.61
39:4S:52:ARG:NH2	44:5U:127:GLU:OE2	2.30	0.61
40:4V:221:GLN:HG2	40:4V:261:SER:HB3	1.82	0.61
40:4V:408:CYS:SG	40:4V:409:TYR:N	2.73	0.61
13:4b:222:PRO:HD2	12:4c:324:LYS:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4d:133:GLN:O	13:4d:165:SER:OG	2.18	0.61
12:4e:60:VAL:CG2	12:4e:86:ARG:HD3	2.30	0.61
41:5D:126:TYR:H	41:5D:133:ARG:HA	1.64	0.61
43:5I:162:VAL:HG22	43:5I:164:GLU:HG3	1.81	0.61
43:5K:55:TYR:HB3	43:5K:76:PHE:CE2	2.35	0.61
12:5c:67:ASP:OD2	12:5c:72:THR:OG1	2.16	0.61
12:5g:87:PRO:HD3	12:6g:281:TYR:CG	2.35	0.61
47:6A:603:PHE:O	47:6A:607:THR:HG23	1.99	0.61
3:6D:1008:ALA:HA	3:6D:1011:GLU:OE1	2.00	0.61
48:6E:156:LEU:HB2	48:6E:175:LEU:HD13	1.82	0.61
48:6E:237:VAL:HG13	48:6E:240:ASN:HD22	1.65	0.61
48:6F:111:LEU:HD12	48:6F:114:LEU:HD22	1.81	0.61
48:6F:518:THR:HG21	48:6F:520:GLN:HE21	1.64	0.61
49:6H:273:ILE:HG22	49:6H:279:THR:HA	1.81	0.61
49:6H:328:CYS:SG	49:6H:356:ILE:HD12	2.41	0.61
49:6I:132:ILE:O	49:6I:136:MET:HG2	1.99	0.61
49:6I:307:GLN:HB2	49:6I:308:PRO:HD3	1.82	0.61
49:6J:307:GLN:HB2	49:6J:308:PRO:HD3	1.82	0.61
50:6K:179:GLU:HG3	50:6K:375:VAL:HG11	1.81	0.61
12:6e:86:ARG:NH1	12:7e:281:TYR:HA	2.14	0.61
12:7a:415:MET:O	12:7a:419:VAL:HG23	2.01	0.61
13:7h:133:GLN:O	13:7h:165:SER:OG	2.18	0.61
13:7h:140:ALA:HA	13:7h:171:VAL:HG12	1.81	0.61
13:9h:133:GLN:O	13:9h:165:SER:OG	2.18	0.61
13:Ah:273:ALA:O	13:Ah:375:VAL:N	2.27	0.61
13:Bd:133:GLN:O	13:Bd:165:SER:OG	2.18	0.61
12:Cc:55:THR:HG22	12:Dc:284:LEU:H	1.65	0.61
12:Cg:140:GLY:HA2	12:Cg:184:ASN:HB2	1.82	0.61
1:0D:46:LEU:HB3	1:0D:65:LEU:CD2	2.31	0.61
1:0E:380:LEU:HD21	1:0E:407:VAL:HG21	1.82	0.61
1:0G:261:LYS:NZ	39:4R:136:LEU:HD13	2.15	0.61
1:0N:174:LEU:O	1:0N:178:GLU:HG2	2.00	0.61
1:0R:220:ASN:O	1:0R:226:LYS:NZ	2.31	0.61
1:0U:262:PHE:HE2	1:0U:264:ASP:HB2	1.65	0.61
1:0Y:76:ALA:HB1	1:0Y:110:VAL:HG23	1.83	0.61
1:1C:346:GLU:HG3	1:1C:347:GLU:CD	2.25	0.61
3:1I:1045:ARG:HA	3:1I:1048:GLU:OE1	2.00	0.61
4:1J:325:TYR:HB3	4:1J:329:GLN:HE21	1.65	0.61
4:1K:217:VAL:O	4:1K:249:THR:HA	1.99	0.61
10:1S:46:ILE:O	10:1S:50:ILE:HG13	2.01	0.61
12:1a:1:MET:HG3	12:1a:129:CYS:SG	2.41	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1c:176:SER:HB2	12:1c:181:GLU:OE1	2.00	0.61
14:2G:135:ARG:HH22	13:Af:36:MET:HE2	1.66	0.61
23:2R:52:UNK:HA	12:3c:291:GLN:NE2	2.14	0.61
23:2R:80:UNK:O	12:3a:297:LYS:NZ	2.32	0.61
24:2T:141:ARG:HG3	13:Dh:299:ALA:HB3	1.82	0.61
24:2U:128:VAL:CG1	12:De:332:ASN:HA	2.31	0.61
12:2e:214:THR:HB	12:2e:297:LYS:NZ	2.14	0.61
34:3N:33:GLN:HE21	34:3U:506:GLU:HA	1.65	0.61
34:3N:274:ILE:O	34:3N:277:VAL:HG22	2.00	0.61
34:3P:113:GLU:O	34:3P:117:ARG:HG2	1.99	0.61
34:3P:279:ASN:O	34:3P:283:THR:HG23	2.00	0.61
34:3V:498:LEU:O	34:3V:502:VAL:HG23	2.00	0.61
12:3a:20:PHE:HA	12:3a:230:SER:HB2	1.81	0.61
12:3c:175:VAL:HG11	13:3d:332:VAL:HG13	1.81	0.61
37:4E:578:ASP:N	43:5L:42:TYR:HH	1.79	0.61
37:4F:960:LEU:CD2	38:4K:72:ARG:HE	2.14	0.61
37:4F:1298:THR:HA	37:4F:1304:MET:HG2	1.82	0.61
37:4F:1335:MET:HE2	38:4N:32:GLU:OE2	1.99	0.61
37:4G:686:HIS:O	38:4I:54:GLU:OE1	2.17	0.61
37:4G:692:MET:SD	38:4I:60:VAL:HG22	2.41	0.61
37:4G:1074:GLN:HE22	38:4L:42:ILE:HA	1.64	0.61
37:4G:1082:LEU:CD2	37:4G:1082:LEU:HG	2.17	0.61
37:4H:1082:LEU:HD23	37:4H:1094:ALA:HB2	1.82	0.61
37:4H:1093:VAL:CB	38:4M:32:GLU:HA	2.21	0.61
37:4H:1333:VAL:CG1	38:4M:28:VAL:N	2.63	0.61
38:4I:47:ALA:HA	38:4I:50:ARG:HB3	1.80	0.61
39:4S:4:LEU:HD13	43:5K:137:ARG:HA	1.81	0.61
40:4T:202:HIS:O	40:4T:206:VAL:HG23	2.00	0.61
40:4T:251:LEU:HD21	40:4T:262:GLN:NE2	2.15	0.61
40:4U:202:HIS:O	40:4U:206:VAL:HG23	2.00	0.61
40:4U:251:LEU:HD21	40:4U:262:GLN:NE2	2.15	0.61
40:4V:251:LEU:HD21	40:4V:262:GLN:NE2	2.15	0.61
40:4V:258:LEU:O	40:4V:259:THR:OG1	2.15	0.61
13:4d:273:ALA:O	13:4d:375:VAL:N	2.27	0.61
12:5a:91:VAL:HG21	12:5a:116:VAL:HG12	1.82	0.61
48:6E:111:LEU:HD12	48:6E:114:LEU:HD22	1.81	0.61
48:6F:156:LEU:HB2	48:6F:175:LEU:HD13	1.82	0.61
48:6F:237:VAL:HG13	48:6F:240:ASN:HD22	1.65	0.61
48:6F:391:ILE:HG13	48:6F:407:LEU:HD13	1.81	0.61
49:6J:328:CYS:SG	49:6J:356:ILE:HD12	2.41	0.61
50:6K:478:PRO:HA	50:6K:500:THR:HG21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:6L:462:LEU:HD21	50:6L:492:LEU:HB2	1.81	0.61
51:6N:1468:VAL:HB	51:6N:1471:THR:HG23	1.83	0.61
13:7f:133:GLN:O	13:7f:165:SER:OG	2.18	0.61
13:8f:133:GLN:O	13:8f:165:SER:OG	2.18	0.61
12:9a:86:ARG:NH2	12:Aa:278:SER:O	2.23	0.61
13:9d:133:GLN:O	13:9d:165:SER:OG	2.18	0.61
13:9h:187:SER:O	13:9h:191:THR:HG22	2.01	0.61
12:Be:3:GLU:HB2	12:Be:127:CYS:SG	2.39	0.61
12:Be:186:THR:HG21	12:Be:385:PHE:CD1	2.34	0.61
13:Bf:140:ALA:HA	13:Bf:171:VAL:HG12	1.81	0.61
13:Cf:140:ALA:HA	13:Cf:171:VAL:HG12	1.81	0.61
13:Ch:140:ALA:HA	13:Ch:171:VAL:HG12	1.81	0.61
13:Dd:207:GLU:OE1	13:Dd:304:LYS:NZ	2.30	0.61
1:0W:373:ALA:O	1:0W:377:THR:HG23	2.01	0.61
1:0B:217:LEU:HB2	1:0B:229:VAL:HG11	1.81	0.61
1:0C:128:ASP:HA	1:0C:131:VAL:HG22	1.81	0.61
1:0C:134:LEU:HD11	1:0C:149:LEU:HD11	1.82	0.61
1:0E:90:TYR:O	1:0E:94:GLU:HG3	2.01	0.61
1:0Q:219:ILE:HG12	1:0Q:255:LYS:HG2	1.81	0.61
1:0R:167:GLY:O	1:0R:169:VAL:N	2.27	0.61
1:0R:337:LEU:O	1:0R:341:VAL:HG23	1.99	0.61
1:0S:322:ALA:HB2	1:0S:362:GLN:HG2	1.82	0.61
1:0U:217:LEU:HB2	1:0U:229:VAL:HG11	1.83	0.61
1:0Z:265:GLU:HA	1:0Z:268:LYS:HE2	1.82	0.61
1:1B:174:LEU:HA	1:1B:177:GLN:CD	2.26	0.61
4:1K:325:TYR:HB3	4:1K:329:GLN:HE21	1.65	0.61
6:1N:726:LEU:HD13	8:1P:731:LYS:HG3	1.81	0.61
8:1P:697:VAL:HG22	8:1P:698:ARG:HG3	1.82	0.61
13:1b:133:GLN:O	13:1b:165:SER:OG	2.18	0.61
13:1h:133:GLN:O	13:1h:165:SER:OG	2.18	0.61
13:2b:140:ALA:HA	13:2b:171:VAL:HG12	1.81	0.61
12:2e:86:ARG:HD2	12:3e:281:TYR:CD1	2.35	0.61
13:2f:140:ALA:HA	13:2f:171:VAL:HG12	1.81	0.61
30:3F:299:LEU:HB3	30:3F:302:LEU:H	1.65	0.61
34:3M:258:TYR:HA	34:3M:261:ARG:NH1	2.16	0.61
34:3O:84:GLU:HB3	34:3T:40:ASN:HD21	1.66	0.61
34:3T:451:ARG:O	34:3T:455:THR:HG23	2.01	0.61
13:3h:262:TYR:CE1	39:4Q:169:LEU:HD23	2.35	0.61
34:4B:93:VAL:O	34:4B:97:LEU:HG	2.00	0.61
37:4E:576:ALA:CA	43:5L:30:ARG:C	2.73	0.61
37:4E:577:LEU:HB3	42:5H:95:GLU:OE2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:977:PRO:HG2	38:4O:36:VAL:HG12	1.80	0.61
37:4E:1637:LEU:HD11	37:4E:1641:LEU:HD23	1.81	0.61
37:4F:970:SER:O	37:4F:1074:GLN:CG	2.49	0.61
37:4F:1084:ARG:CA	38:4N:37:GLY:HA2	2.29	0.61
37:4G:413:ALA:O	37:4G:416:VAL:HG22	2.01	0.61
37:4G:529:VAL:HG11	38:4I:66:GLN:HE21	1.66	0.61
38:4K:61:LEU:HB2	38:4K:80:LEU:HD11	1.83	0.61
13:4h:133:GLN:O	13:4h:165:SER:OG	2.18	0.61
42:5E:146:THR:O	43:5I:144:TYR:OH	2.17	0.61
42:5G:139:LEU:HD22	43:5K:141:LEU:HD21	1.81	0.61
43:5I:138:HIS:O	43:5I:141:LEU:HB3	2.01	0.61
43:5J:162:VAL:HG22	43:5J:164:GLU:HG3	1.81	0.61
43:5L:141:LEU:O	43:5L:144:TYR:HB3	2.01	0.61
44:5N:121:SER:O	44:5N:124:GLU:N	2.32	0.61
44:5O:121:SER:O	44:5O:124:GLU:N	2.32	0.61
13:5f:181:VAL:HG22	12:5g:347:ASN:O	2.00	0.61
47:6B:1480:LEU:O	47:6B:1484:VAL:HG23	2.00	0.61
47:6B:1802:ALA:O	47:6B:1806:GLN:HB2	2.01	0.61
48:6E:875:GLU:HG2	48:6E:952:LEU:HD23	1.82	0.61
48:6E:1029:ARG:O	48:6E:1033:VAL:HG23	2.00	0.61
48:6F:333:LEU:HD23	48:6F:336:ILE:HD12	1.82	0.61
48:6F:875:GLU:HG2	48:6F:952:LEU:HD23	1.82	0.61
50:6L:182:ALA:HB3	50:6L:375:VAL:HG13	1.82	0.61
50:6L:497:GLU:HB2	50:6L:506:LYS:HD3	1.82	0.61
51:6M:1468:VAL:HB	51:6M:1471:THR:HG23	1.83	0.61
51:6M:1900:VAL:HG11	51:6M:1916:ARG:HH11	1.64	0.61
13:7d:133:GLN:O	13:7d:165:SER:OG	2.18	0.61
12:9c:110:ALA:HA	12:9c:113:ILE:HG22	1.83	0.61
12:Aa:287:PRO:HD3	12:Aa:325:GLU:OE1	2.01	0.61
13:Bb:133:GLN:O	13:Bb:165:SER:OG	2.18	0.61
13:Bb:273:ALA:O	13:Bb:375:VAL:N	2.27	0.61
13:Bb:397:LEU:HD12	12:Bc:431:GLU:OE2	1.99	0.61
12:Cg:67:ASP:OD2	12:Cg:72:THR:OG1	2.17	0.61
13:Db:187:SER:O	13:Db:191:THR:HG22	2.01	0.61
12:Dc:177:ASP:O	13:Dd:352:LYS:HA	2.01	0.61
1:0H:337:LEU:O	1:0H:341:VAL:HG23	2.00	0.61
1:0W:368:PRO:HA	1:0W:410:LYS:HB3	1.82	0.61
1:0K:358:TRP:CD1	1:0K:362:GLN:HE22	2.18	0.61
44:5P:120:LEU:HD23	44:5P:125:VAL:HG22	1.83	0.61
1:0A:51:LEU:HD13	47:6B:118:GLY:HA2	1.81	0.61
1:0L:195:SER:O	1:0L:239:HIS:CE1	2.50	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Q:80:VAL:HG22	1:0Q:85:LEU:HD11	1.82	0.61
1:0U:320:ILE:HB	1:0U:327:LEU:HD23	1.82	0.61
1:1A:265:GLU:HA	1:1A:268:LYS:HE2	1.82	0.61
2:1G:373:ARG:HD2	2:1G:374:GLY:N	2.14	0.61
3:1H:1003:THR:HG23	3:1H:1004:ALA:H	1.66	0.61
6:1N:580:LEU:HD12	6:1N:616:LEU:HD11	1.81	0.61
6:1N:1359:GLU:OE1	6:1N:1476:LEU:HD22	2.01	0.61
12:1e:222:PHE:HE2	13:1f:248:LEU:HG	1.64	0.61
12:2a:322:SER:HB2	12:2a:324:LYS:HG2	1.82	0.61
13:2b:187:SER:O	13:2b:191:THR:HG22	2.01	0.61
13:2d:187:SER:O	13:2d:191:THR:HG22	2.01	0.61
13:2f:187:SER:O	13:2f:191:THR:HG22	2.01	0.61
13:2h:187:SER:O	13:2h:191:THR:HG22	2.01	0.61
30:3F:301:VAL:CG2	13:6f:428:LEU:HA	2.26	0.61
32:3J:358:ARG:NE	12:9a:390:ARG:HA	2.16	0.61
34:3V:92:THR:HG22	34:3V:95:ARG:HH12	1.65	0.61
34:3X:44:LYS:O	34:3X:48:HIS:ND1	2.32	0.61
12:3a:86:ARG:CZ	12:4a:281:TYR:CD1	2.84	0.61
12:3g:86:ARG:NH1	12:3g:123:GLU:OE2	2.32	0.61
34:4A:404:HIS:O	34:4A:408:ARG:HG2	1.99	0.61
35:4C:304:ALA:HB3	35:4C:307:ARG:HB2	1.82	0.61
36:4D:294:LYS:HD3	36:4D:296:ALA:H	1.66	0.61
37:4E:579:THR:O	37:4E:579:THR:HG22	1.99	0.61
37:4F:540:VAL:HG12	38:4N:72:ARG:HH12	1.58	0.61
37:4F:1075:VAL:O	38:4N:38:VAL:HG21	2.01	0.61
37:4G:784:LEU:O	37:4G:788:LEU:HD12	2.01	0.61
37:4G:825:ASP:O	37:4G:826:LEU:HD23	1.99	0.61
37:4G:1331:TRP:CH2	37:4G:1345:PRO:HA	2.34	0.61
37:4H:1082:LEU:O	38:4M:35:ALA:O	2.19	0.61
37:4H:1144:LEU:HG	38:4M:29:LYS:CG	2.29	0.61
38:4I:24:THR:OG1	42:5E:104:GLN:NE2	2.33	0.61
40:4T:541:ARG:HA	40:4T:646:LEU:HD13	1.83	0.61
13:4f:133:GLN:O	13:4f:165:SER:OG	2.18	0.61
13:4f:273:ALA:O	13:4f:375:VAL:N	2.27	0.61
13:4h:273:ALA:O	13:4h:375:VAL:N	2.27	0.61
42:5E:158:MET:HE3	43:5I:159:PRO:HD3	1.83	0.61
42:5H:139:LEU:HB3	43:5L:145:SER:CB	2.30	0.61
43:5I:12:SER:HB2	43:5I:69:ASP:OD2	2.00	0.61
43:5J:12:SER:HB2	43:5J:69:ASP:OD2	2.00	0.61
43:5J:42:TYR:H	43:5J:42:TYR:HD2	1.47	0.61
43:5L:110:GLN:OE1	43:5L:117:GLY:HA3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5L:138:HIS:O	43:5L:141:LEU:HB3	2.01	0.61
12:5a:86:ARG:HA	12:6a:281:TYR:CD1	2.35	0.61
47:6A:1480:LEU:O	47:6A:1484:VAL:HG23	2.00	0.61
47:6A:1842:SER:HB2	50:6L:574:GLU:OE1	2.01	0.61
3:6D:20:ILE:O	3:6D:24:THR:HG23	2.00	0.61
3:6D:798:ALA:H	3:6D:842:HIS:CE1	2.19	0.61
49:6G:391:ILE:HG21	49:6G:397:SER:HB3	1.82	0.61
50:6L:478:PRO:HA	50:6L:500:THR:HG21	1.82	0.61
13:6b:140:ALA:HA	13:6b:171:VAL:HG12	1.81	0.61
13:6h:187:SER:O	13:6h:191:THR:HG22	2.01	0.61
12:7g:235:GLY:HA3	12:7g:366:THR:HG21	1.82	0.61
12:8a:172:SER:OG	12:8a:175:VAL:O	2.18	0.61
12:8c:417:ASP:O	12:8c:421:GLU:HG2	1.99	0.61
13:8d:133:GLN:O	13:8d:165:SER:OG	2.18	0.61
12:8e:16:ILE:HD11	12:8e:229:ILE:HG21	1.82	0.61
13:9d:187:SER:O	13:9d:191:THR:HG22	2.01	0.61
13:9f:133:GLN:O	13:9f:165:SER:OG	2.18	0.61
12:Be:3:GLU:HB3	12:Be:62:ARG:HH21	1.66	0.61
13:Bf:133:GLN:O	13:Bf:165:SER:OG	2.18	0.61
12:Bg:332:ASN:HD21	12:Bg:336:LYS:HD2	1.63	0.61
12:Ca:276:ARG:HA	12:Ca:279:GLN:HE21	1.64	0.61
13:Cd:140:ALA:HA	13:Cd:171:VAL:HG12	1.81	0.61
13:Ch:187:SER:O	13:Ch:191:THR:HG22	2.01	0.61
13:Dd:187:SER:O	13:Dd:191:THR:HG22	2.01	0.61
13:Df:187:SER:O	13:Df:191:THR:HG22	2.01	0.61
1:0H:127:LEU:HD13	1:0H:163:VAL:HA	1.82	0.61
1:0J:320:ILE:HG22	1:0J:327:LEU:HB3	1.81	0.61
1:0A:363:ILE:HG22	1:0A:370:HIS:HB3	1.82	0.61
1:0B:65:LEU:HD11	1:0B:84:ILE:HD13	1.82	0.61
1:0G:160:ALA:O	1:0G:164:VAL:HG23	2.01	0.61
1:0S:225:LEU:O	1:0S:229:VAL:HG22	2.00	0.61
1:0Z:342:SER:HA	1:0Z:345:ASN:HD22	1.66	0.61
1:1A:417:LEU:O	1:1A:421:VAL:HG23	2.01	0.61
2:1F:14:VAL:HG12	13:Ah:423:GLU:OE1	2.01	0.61
3:1H:504:LEU:HD22	3:1H:527:CYS:SG	2.41	0.61
4:1J:106:GLU:HG2	4:1J:159:THR:HG22	1.83	0.61
6:1N:127:MET:SD	6:1N:173:ARG:HD2	2.40	0.61
7:1O:175:VAL:HG22	8:1P:885:PRO:HG2	1.81	0.61
7:1O:1466:ALA:O	7:1O:1469:GLU:HG2	2.00	0.61
10:1S:50:ILE:HA	10:1S:61:ILE:HD11	1.82	0.61
10:1S:409:TYR:HB2	13:Bf:326:LYS:HE2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:3E:1188:TRP:CE3	29:3E:1189:ARG:HG3	2.36	0.61
34:3N:503:ASN:HA	34:3N:506:GLU:OE1	2.00	0.61
34:3P:126:PHE:CD1	34:3P:368:LEU:HD21	2.35	0.61
34:3T:279:ASN:O	34:3T:283:THR:HG23	2.00	0.61
34:3X:276:GLU:HG2	34:3X:456:LEU:HB2	1.81	0.61
12:3g:177:ASP:O	13:3h:352:LYS:HA	2.01	0.61
34:4A:119:MET:HE1	37:4F:1609:PRO:HB3	1.83	0.61
35:4C:728:ARG:HH11	37:4E:1764:PRO:CD	2.14	0.61
37:4F:1083:ILE:CB	38:4N:34:ALA:O	2.49	0.61
37:4F:1093:VAL:N	37:4F:1136:ARG:O	2.34	0.61
37:4G:935:ARG:HH12	38:4I:72:ARG:CG	2.13	0.61
37:4G:1083:ILE:C	38:4L:38:VAL:HG23	2.25	0.61
37:4H:958:LEU:HD21	37:4H:970:SER:HB3	1.81	0.61
37:4H:1136:ARG:HB2	37:4H:1145:VAL:C	2.21	0.61
37:4H:1137:ALA:O	37:4H:1145:VAL:HB	2.01	0.61
38:4L:61:LEU:HB2	38:4L:80:LEU:HD11	1.83	0.61
39:4S:3:GLY:H	43:5K:140:LYS:NZ	1.98	0.61
40:4U:541:ARG:HA	40:4U:646:LEU:HD13	1.83	0.61
13:4b:133:GLN:O	13:4b:165:SER:OG	2.18	0.61
12:4c:55:THR:HG22	12:5c:283:ALA:HA	1.82	0.61
12:4c:67:ASP:OD2	12:4c:72:THR:OG1	2.15	0.61
42:5H:137:TYR:HA	43:5L:47:LYS:HA	1.74	0.61
43:5K:52:LEU:HA	43:5K:55:TYR:CD2	2.36	0.61
44:5Q:145:PHE:O	44:5Q:149:MET:HG2	2.00	0.61
47:6A:1802:ALA:O	47:6A:1806:GLN:HB2	2.01	0.61
48:6E:210:LEU:HD23	48:6E:232:LEU:HD21	1.83	0.61
48:6F:847:LEU:HD11	48:6F:952:LEU:HD11	1.83	0.61
50:6K:497:GLU:HB2	50:6K:506:LYS:HD3	1.82	0.61
51:6N:1900:VAL:HG11	51:6N:1916:ARG:HH11	1.64	0.61
13:6d:140:ALA:HA	13:6d:171:VAL:HG12	1.81	0.61
13:6d:187:SER:O	13:6d:191:THR:HG22	2.01	0.61
13:6d:403:ALA:HB2	12:6e:344:TRP:CZ3	2.32	0.61
12:7e:278:SER:CA	12:7e:281:TYR:HB2	2.29	0.61
12:7g:87:PRO:HG2	12:8g:278:SER:OG	2.00	0.61
13:7h:2:ARG:HH22	13:7h:48:ALA:HA	1.66	0.61
13:9d:2:ARG:HH22	13:9d:48:ALA:HA	1.66	0.61
13:9h:2:ARG:HH22	13:9h:48:ALA:HA	1.66	0.61
13:Ad:140:ALA:HA	13:Ad:171:VAL:HG12	1.81	0.61
12:Ag:27:GLU:O	12:Ag:359:LYS:NZ	2.32	0.61
13:Cd:187:SER:O	13:Cd:191:THR:HG22	2.01	0.61
12:Ce:99:ASN:HA	12:Ce:142:GLY:H	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Cf:187:SER:O	13:Cf:191:THR:HG22	2.01	0.61
13:Dh:187:SER:O	13:Dh:191:THR:HG22	2.01	0.61
1:0I:275:VAL:HG21	1:0I:298:LEU:HD21	1.83	0.61
1:0D:311:LEU:HD21	1:0D:352:LEU:HA	1.83	0.61
1:0M:413:HIS:CE1	1:0M:416:ALA:HB2	2.36	0.61
1:0N:128:ASP:OD1	31:3H:161:ALA:HA	2.01	0.61
1:0P:127:LEU:HD13	1:0P:163:VAL:HA	1.82	0.61
1:0Z:126:ALA:O	1:0Z:129:SER:OG	2.18	0.61
1:1C:227:ARG:HD3	1:1C:266:PHE:HB2	1.83	0.61
2:1E:82:LEU:CD1	2:1E:118:PRO:HB2	2.31	0.61
2:1F:373:ARG:HD2	2:1F:374:GLY:N	2.14	0.61
3:1I:841:SER:OG	3:1I:937:MET:HB3	2.00	0.61
4:1K:106:GLU:HG2	4:1K:159:THR:HG22	1.83	0.61
6:1N:1032:TRP:HE3	6:1N:1077:CYS:SG	2.24	0.61
7:1O:208:VAL:HG22	8:1P:908:LYS:HE3	1.83	0.61
14:2G:115:GLN:HB3	12:Be:78:SER:HB2	1.81	0.61
24:2T:126:ASN:ND2	24:2T:132:ARG:HG2	2.15	0.61
24:2V:208:ARG:HH21	13:Cd:406:HIS:CE1	2.18	0.61
30:3F:382:TRP:HZ3	13:8f:339:ARG:O	1.84	0.61
34:3N:49:PHE:HB2	34:3N:288:MET:HE1	1.81	0.61
34:3P:38:HIS:CE1	34:3P:42:LEU:HD21	2.35	0.61
34:3R:471:ARG:HG3	34:3W:496:TYR:HE2	1.66	0.61
34:3T:274:ILE:O	34:3T:277:VAL:HG22	2.01	0.61
34:3V:121:LEU:HD21	34:3V:357:LEU:HB2	1.82	0.61
34:3W:74:LEU:HD11	34:3W:191:ALA:HB1	1.83	0.61
35:4C:829:VAL:HG21	35:4C:834:ILE:O	2.00	0.61
35:4C:911:SER:O	35:4C:1075:CYS:HB3	2.01	0.61
36:4D:273:PHE:HE2	46:5Z:102:UNK:CB	2.13	0.61
37:4E:589:PRO:HG2	43:5L:20:HIS:CB	2.30	0.61
37:4F:1082:LEU:CD1	38:4N:39:HIS:C	2.73	0.61
37:4H:570:LEU:HD13	42:5F:99:LYS:HG2	1.83	0.61
40:4V:202:HIS:O	40:4V:206:VAL:HG23	2.00	0.61
42:5H:139:LEU:HD23	43:5L:146:TYR:CB	2.19	0.61
42:5H:143:VAL:CG1	42:5H:144:PHE:CE1	2.83	0.61
43:5J:138:HIS:O	43:5J:141:LEU:HB3	2.01	0.61
43:5J:141:LEU:O	43:5J:144:TYR:HB3	2.01	0.61
12:5c:116:VAL:O	12:5c:120:VAL:HG13	2.00	0.61
12:5g:274:THR:HG21	12:5g:279:GLN:HA	1.83	0.61
47:6A:1213:GLU:HG3	47:6A:1256:LEU:HD13	1.82	0.61
48:6E:333:LEU:HD23	48:6E:336:ILE:HD12	1.82	0.61
48:6E:847:LEU:HD11	48:6E:952:LEU:HD11	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:6F:210:LEU:HD23	48:6F:232:LEU:HD21	1.83	0.61
48:6F:1029:ARG:O	48:6F:1033:VAL:HG23	2.00	0.61
49:6H:391:ILE:HG21	49:6H:397:SER:HB3	1.82	0.61
49:6J:358:GLN:HE22	49:6J:436:GLN:NE2	1.97	0.61
50:6K:182:ALA:HB3	50:6K:375:VAL:HG13	1.82	0.61
12:6a:86:ARG:HD3	12:7a:281:TYR:CD1	2.30	0.61
13:6b:2:ARG:HH22	13:6b:48:ALA:HA	1.66	0.61
13:6b:187:SER:O	13:6b:191:THR:HG22	2.01	0.61
13:6f:2:ARG:HH22	13:6f:48:ALA:HA	1.66	0.61
13:6f:187:SER:O	13:6f:191:THR:HG22	2.01	0.61
13:6h:2:ARG:HH22	13:6h:48:ALA:HA	1.66	0.61
13:7d:2:ARG:HH22	13:7d:48:ALA:HA	1.66	0.61
13:9f:2:ARG:HH22	13:9f:48:ALA:HA	1.66	0.61
13:Ad:187:SER:O	13:Ad:191:THR:HG22	2.01	0.61
12:Ae:35:THR:HG23	12:Ae:37:HIS:NE2	2.15	0.61
12:Ae:84:ILE:O	12:Ae:86:ARG:NH1	2.29	0.61
13:Bb:140:ALA:HA	13:Bb:171:VAL:HG12	1.81	0.61
12:Ca:276:ARG:HA	12:Ca:279:GLN:NE2	2.15	0.61
13:Cb:140:ALA:HA	13:Cb:171:VAL:HG12	1.81	0.61
1:0H:262:PHE:HE2	1:0H:264:ASP:HB2	1.64	0.61
1:0J:34:ILE:HG23	1:0J:68:LEU:HD22	1.82	0.61
1:0J:80:VAL:HG22	1:0J:85:LEU:HD11	1.80	0.61
1:0W:413:HIS:CE1	1:0W:416:ALA:HB2	2.36	0.61
1:0I:367:THR:HB	1:0I:370:HIS:HD1	1.65	0.61
1:0A:227:ARG:NH1	1:0A:264:ASP:OD2	2.34	0.61
1:0B:114:SER:OG	1:0B:116:GLU:HG3	1.99	0.61
1:0B:214:LEU:HD22	1:0B:229:VAL:HG12	1.82	0.61
1:0F:47:ARG:HB2	1:0F:84:ILE:HG12	1.81	0.61
1:0G:413:HIS:CE1	1:0G:416:ALA:HB2	2.36	0.61
1:0R:358:TRP:HB2	1:0R:399:LYS:HD2	1.81	0.61
1:0U:182:SER:O	1:0U:185:ARG:HG2	2.00	0.61
1:0V:107:LEU:HD22	1:0V:121:VAL:HG13	1.82	0.61
1:0V:417:LEU:O	1:0V:421:VAL:HG23	2.01	0.61
2:1D:224:ALA:O	2:1D:227:VAL:HG22	2.01	0.61
2:1F:12:ALA:HB1	13:Ah:430:LYS:HE2	1.83	0.61
3:1I:515:GLY:H	3:1I:572:TYR:HH	1.48	0.61
5:1L:106:LYS:HA	5:1L:138:ALA:HB1	1.82	0.61
7:1O:47:ILE:O	7:1O:51:VAL:HG13	2.01	0.61
10:1R:50:ILE:HA	10:1R:61:ILE:HD11	1.82	0.61
13:1f:133:GLN:O	13:1f:165:SER:OG	2.18	0.61
13:1h:187:SER:O	13:1h:191:THR:HG22	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2c:274:THR:HG21	12:2c:279:GLN:HA	1.83	0.61
30:3F:577:GLU:O	30:3F:581:LEU:HG	2.01	0.61
30:3G:627:LEU:HD11	12:7e:406:MET:HA	1.83	0.61
32:3J:165:SER:OG	32:3J:207:ASP:OD1	2.10	0.61
34:3N:77:GLN:HB3	34:3N:317:ARG:NH2	2.16	0.61
34:3U:334:LEU:HD11	34:3U:396:ALA:HB3	1.83	0.61
34:3W:93:VAL:O	34:3W:97:LEU:HG	2.00	0.61
12:3e:176:SER:OG	13:3f:349:THR:HB	2.00	0.61
12:3g:67:ASP:OD2	12:3g:72:THR:OG1	2.16	0.61
37:4E:586:PHE:CD2	43:5L:10:LEU:CD1	2.81	0.61
37:4F:1322:ARG:CB	38:4N:25:PRO:HB3	2.25	0.61
37:4G:514:TYR:CE2	37:4G:538:GLU:HB3	2.36	0.61
37:4G:1082:LEU:CD2	38:4L:40:LYS:N	2.57	0.61
37:4G:1082:LEU:HD11	38:4L:40:LYS:N	2.14	0.61
37:4G:1333:VAL:HG23	38:4L:25:PRO:C	2.26	0.61
37:4H:954:SER:HB2	38:4M:48:PRO:CA	2.31	0.61
37:4H:1082:LEU:HD12	38:4M:39:HIS:CG	2.36	0.61
37:4H:1137:ALA:N	38:4M:33:LYS:CE	2.49	0.61
38:4I:30:ALA:C	38:4I:33:LYS:N	2.52	0.61
38:4J:61:LEU:HB2	38:4J:80:LEU:HD11	1.83	0.61
38:4L:58:VAL:O	38:4L:62:MET:HB2	2.01	0.61
13:4f:2:ARG:HH22	13:4f:48:ALA:HA	1.66	0.61
13:4h:2:ARG:HH22	13:4h:48:ALA:HA	1.66	0.61
42:5H:81:VAL:HG21	42:5H:129:MET:HE2	1.83	0.61
42:5H:139:LEU:HB2	43:5L:146:TYR:CE2	2.35	0.61
44:5Q:113:MET:HG3	44:5Q:128:MET:HE1	1.83	0.61
12:5e:86:ARG:CD	12:6e:281:TYR:HD1	2.14	0.61
47:6A:1002:GLU:O	47:6A:1002:GLU:HG3	2.00	0.61
49:6I:358:GLN:HE22	49:6I:436:GLN:NE2	1.97	0.61
51:6M:1266:HIS:HA	51:6M:1321:LEU:HD23	1.83	0.61
51:6N:1266:HIS:HA	51:6N:1321:LEU:HD23	1.83	0.61
13:7b:2:ARG:HH22	13:7b:48:ALA:HA	1.66	0.61
12:7e:45:GLU:HG3	12:7e:46:ARG:HG2	1.81	0.61
13:7f:2:ARG:HH22	13:7f:48:ALA:HA	1.66	0.61
13:7f:224:TYR:HE2	12:7g:246:LEU:HB2	1.64	0.61
12:7g:177:ASP:O	13:7h:352:LYS:HA	2.01	0.61
13:8h:399:TYR:O	13:8h:402:ARG:NH1	2.31	0.61
13:9f:187:SER:O	13:9f:191:THR:HG22	2.01	0.61
13:9f:273:ALA:O	13:9f:375:VAL:N	2.27	0.61
13:Ab:140:ALA:HA	13:Ab:171:VAL:HG12	1.81	0.61
13:Ad:273:ALA:O	13:Ad:375:VAL:N	2.27	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ae:52:ASN:O	12:Ae:60:VAL:HG22	2.01	0.61
13:Ah:187:SER:O	13:Ah:191:THR:HG22	2.01	0.61
13:Bb:187:SER:O	13:Bb:191:THR:HG22	2.01	0.61
13:Bd:187:SER:O	13:Bd:191:THR:HG22	2.01	0.61
13:Bf:187:SER:O	13:Bf:191:THR:HG22	2.01	0.61
12:Bg:87:PRO:HG2	12:Cg:278:SER:HB3	1.83	0.61
13:Cb:187:SER:O	13:Cb:191:THR:HG22	2.01	0.61
12:Ce:87:PRO:HG2	12:De:278:SER:HB2	1.83	0.61
1:0J:37:LEU:HD23	1:0J:68:LEU:HD21	1.82	0.61
1:0J:162:GLN:HA	1:0J:165:ASP:OD2	2.00	0.61
1:0D:341:VAL:HA	1:0D:344:LEU:HD12	1.81	0.61
1:0E:95:GLN:HE21	25:2X:62:UNK:HA	1.66	0.61
1:0V:128:ASP:HA	1:0V:131:VAL:HG22	1.83	0.61
2:1E:314:VAL:HB	2:1E:319:CYS:SG	2.41	0.61
7:1O:330:HIS:HE1	7:1O:448:CYS:SG	2.24	0.61
10:1R:426:TRP:NE1	12:Aa:77:ARG:HH22	1.99	0.61
10:1S:57:LYS:HE3	13:Ah:339:ARG:NH1	2.15	0.61
13:1d:187:SER:O	13:1d:191:THR:HG22	2.01	0.61
14:2G:85:PHE:CD2	12:Ce:217:LEU:HD11	2.36	0.61
12:2c:73:MET:HA	12:2c:76:VAL:HG22	1.83	0.61
31:3H:333:ALA:HA	12:8a:427:ASP:OD1	2.01	0.61
32:3J:248:ARG:HH21	12:Aa:427:ASP:CG	2.08	0.61
34:3O:257:LYS:O	34:3O:261:ARG:HG2	2.01	0.61
34:3Q:99:ARG:O	34:3Q:103:LEU:HG	2.00	0.61
34:3Q:250:ARG:HE	34:3T:247:ASP:HB2	1.65	0.61
34:3Z:38:HIS:CE1	34:3Z:452:HIS:CE1	2.89	0.61
37:4H:1323:ILE:CD1	38:4M:26:GLU:HA	2.28	0.61
39:4R:67:TRP:HA	44:5Q:149:MET:HE1	1.83	0.61
40:4U:322:LEU:O	40:4U:326:VAL:HG23	2.01	0.61
13:4b:187:SER:O	13:4b:191:THR:HG22	2.01	0.61
13:4d:2:ARG:HH22	13:4d:48:ALA:HA	1.66	0.61
13:4d:100:ALA:HA	12:4e:252:LYS:HG2	1.83	0.61
41:5A:96:ALA:O	41:5A:118:ASN:HA	2.01	0.61
42:5H:136:HIS:N	42:5H:137:TYR:N	2.47	0.61
44:5M:121:SER:O	44:5M:124:GLU:N	2.32	0.61
47:6A:1287:GLN:HE21	51:6M:2474:GLN:HE22	1.49	0.61
47:6B:1002:GLU:O	47:6B:1002:GLU:HG3	2.01	0.61
47:6B:1156:LEU:HD23	47:6B:1313:LYS:HZ1	1.66	0.61
47:6B:1287:GLN:HE21	51:6N:2474:GLN:HE22	1.49	0.61
49:6G:205:LEU:H	49:6G:305:LYS:HZ1	1.49	0.61
49:6H:307:GLN:HB2	49:6H:308:PRO:HD3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:6d:2:ARG:HH22	13:6d:48:ALA:HA	1.66	0.61
12:7g:67:ASP:OD2	12:7g:72:THR:OG1	2.18	0.61
13:8b:133:GLN:O	13:8b:165:SER:OG	2.18	0.61
13:9b:187:SER:O	13:9b:191:THR:HG22	2.01	0.61
12:9c:274:THR:HG22	12:9c:282:ARG:HD3	1.82	0.61
13:9d:273:ALA:O	13:9d:375:VAL:N	2.27	0.61
13:9d:407:TRP:HE1	12:9e:258:ILE:HB	1.66	0.61
13:Ah:2:ARG:HH22	13:Ah:48:ALA:HA	1.66	0.61
13:Bh:133:GLN:O	13:Bh:165:SER:OG	2.18	0.61
13:Bh:187:SER:O	13:Bh:191:THR:HG22	2.01	0.61
13:Cb:2:ARG:HH22	13:Cb:48:ALA:HA	1.66	0.61
1:0W:349:GLU:O	1:0W:353:LYS:HG3	2.01	0.61
1:0W:358:TRP:HB2	1:0W:399:LYS:HD2	1.82	0.61
1:0I:407:VAL:HG12	1:0I:411:LEU:HD22	1.83	0.61
1:0E:201:LEU:O	1:0E:205:VAL:HG23	2.01	0.60
1:0L:350:ASP:CA	1:0L:353:LYS:HG3	2.30	0.60
1:0P:262:PHE:HE2	1:0P:264:ASP:HB2	1.64	0.60
1:0Q:164:VAL:HG21	1:0Q:201:LEU:HD22	1.82	0.60
1:0X:91:SER:HA	1:0X:99:TYR:CE2	2.36	0.60
1:1A:46:LEU:HB3	1:1A:65:LEU:CD2	2.31	0.60
1:1A:221:GLN:HB3	5:1L:505:MET:HG3	1.82	0.60
1:1B:396:LEU:HD22	1:1B:397:LYS:NZ	2.13	0.60
1:1B:399:LYS:HZ3	1:1B:402:ARG:NH1	1.98	0.60
2:1D:512:CYS:O	2:1D:517:ALA:HB2	2.01	0.60
2:1F:170:ASN:HB2	2:1F:212:THR:HG22	1.82	0.60
2:1G:364:GLY:O	2:1G:368:VAL:HG23	2.01	0.60
5:1M:106:LYS:HA	5:1M:138:ALA:HB1	1.82	0.60
6:1N:107:SER:OG	6:1N:118:GLY:HA3	2.01	0.60
6:1N:1083:LYS:HB3	6:1N:1086:LEU:HD12	1.82	0.60
6:1N:1442:THR:HG23	6:1N:1445:GLY:N	2.10	0.60
6:1N:2275:ILE:HB	6:1N:2307:LEU:HB2	1.83	0.60
10:1R:175:ARG:HH22	13:Ab:423:GLU:CG	2.14	0.60
10:1R:243:PRO:HA	10:1R:255:LEU:HD11	1.80	0.60
14:2F:68:CYS:CB	13:Cb:46:ASP:HB2	2.23	0.60
23:2Q:81:UNK:HA	12:3e:306:ARG:HH22	1.66	0.60
30:3F:301:VAL:HG12	13:6f:264:ARG:HE	1.65	0.60
30:3F:315:LEU:HD12	13:6f:159:VAL:HG11	1.83	0.60
30:3F:631:LEU:HD21	30:3F:635:ARG:NH1	2.16	0.60
31:3I:179:LEU:HD13	31:3I:183:ARG:HH21	1.66	0.60
34:3T:374:SER:HA	34:3T:377:ARG:NE	2.17	0.60
34:3U:100:ILE:HG23	34:3U:390:LEU:HD22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4C:397:LEU:HD21	35:4C:469:LEU:HD22	1.83	0.60
36:4D:141:TYR:O	36:4D:142:ASN:HB2	1.99	0.60
36:4D:252:TYR:HA	36:4D:262:THR:O	2.00	0.60
37:4E:575:SER:HB3	43:5L:31:ASP:N	2.16	0.60
37:4E:577:LEU:HD12	42:5H:134:LEU:HD13	1.82	0.60
37:4E:1527:ILE:HG13	37:4E:1611:ILE:HG12	1.82	0.60
37:4G:935:ARG:HH22	37:4G:960:LEU:HD23	1.65	0.60
37:4H:1323:ILE:CA	38:4M:25:PRO:CB	2.68	0.60
38:4J:25:PRO:O	38:4J:28:VAL:CA	2.49	0.60
38:4J:58:VAL:O	38:4J:62:MET:HB2	2.01	0.60
38:4M:61:LEU:HB2	38:4M:80:LEU:HD11	1.83	0.60
40:4T:258:LEU:O	40:4T:259:THR:OG1	2.15	0.60
40:4V:541:ARG:HA	40:4V:646:LEU:HD13	1.83	0.60
13:4d:187:SER:O	13:4d:191:THR:HG22	2.01	0.60
13:4f:187:SER:O	13:4f:191:THR:HG22	2.01	0.60
42:5H:129:MET:O	42:5H:130:ALA:O	2.19	0.60
42:5H:129:MET:O	42:5H:134:LEU:CB	2.49	0.60
43:5K:22:HIS:HB3	43:5K:25:LYS:HB2	1.84	0.60
43:5K:107:HIS:O	43:5K:118:LEU:N	2.31	0.60
43:5K:138:HIS:O	43:5K:141:LEU:HB3	2.01	0.60
44:5Q:120:LEU:HD23	44:5Q:125:VAL:HG22	1.83	0.60
13:5d:187:SER:O	13:5d:191:THR:HG22	2.01	0.60
13:5h:187:SER:O	13:5h:191:THR:HG22	2.01	0.60
47:6A:1156:LEU:HD23	47:6A:1313:LYS:HZ1	1.66	0.60
47:6B:1213:GLU:HG3	47:6B:1256:LEU:HD13	1.82	0.60
49:6G:307:GLN:HB2	49:6G:308:PRO:HD3	1.82	0.60
49:6H:367:THR:HG21	49:6H:387:LYS:H	1.66	0.60
51:6M:1822:ALA:HA	51:6M:1825:VAL:HG22	1.83	0.60
13:6b:399:TYR:O	13:6b:402:ARG:NH1	2.31	0.60
13:6f:140:ALA:HA	13:6f:171:VAL:HG12	1.81	0.60
13:6h:140:ALA:HA	13:6h:171:VAL:HG12	1.81	0.60
12:Ag:87:PRO:HA	12:Ag:90:PHE:CD1	2.35	0.60
13:Bd:2:ARG:HH22	13:Bd:48:ALA:HA	1.66	0.60
12:Ca:26:ASP:HB2	12:Ca:359:LYS:HE3	1.83	0.60
12:Ca:87:PRO:HG2	12:Da:278:SER:HB2	1.83	0.60
12:Ca:176:SER:OG	13:Cb:349:THR:HB	2.01	0.60
13:Db:273:ALA:O	13:Db:375:VAL:N	2.27	0.60
12:De:3:GLU:HB3	12:De:62:ARG:NH2	2.15	0.60
1:0W:322:ALA:HB2	1:0W:362:GLN:HG2	1.82	0.60
1:0D:346:GLU:HG3	1:0D:347:GLU:CD	2.26	0.60
1:0F:358:TRP:HB2	1:0F:399:LYS:HD2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0N:142:LYS:CE	1:0N:178:GLU:HG3	2.29	0.60
1:0Q:380:LEU:HD21	1:0Q:407:VAL:HG21	1.82	0.60
1:0R:131:VAL:HA	1:0R:134:LEU:HD12	1.82	0.60
1:0T:47:ARG:HG3	1:0T:84:ILE:HG12	1.81	0.60
1:0X:80:VAL:HG11	1:0X:120:SER:OG	2.01	0.60
1:0Y:373:ALA:O	1:0Y:377:THR:HG23	1.99	0.60
1:1A:363:ILE:HG22	1:1A:370:HIS:HB3	1.83	0.60
1:1C:387:GLU:OE2	1:1C:397:LYS:HA	2.01	0.60
3:1H:1009:ARG:HB3	48:6F:353:ILE:CD1	2.25	0.60
10:1S:364:PHE:HA	12:Bg:337:ASN:ND2	2.15	0.60
10:1S:443:TYR:HB2	10:1S:446:CYS:SG	2.41	0.60
12:1a:60:VAL:HG21	12:1a:86:ARG:NH2	2.16	0.60
17:2J:62:UNK:O	13:Bb:229:ARG:NH2	2.34	0.60
34:3Z:386:HIS:CE1	34:3Z:390:LEU:HD11	2.35	0.60
13:3d:2:ARG:HH22	13:3d:48:ALA:HA	1.66	0.60
37:4E:583:GLU:N	43:5L:38:GLY:N	2.43	0.60
37:4F:1083:ILE:O	38:4N:38:VAL:CB	2.49	0.60
37:4F:1333:VAL:N	38:4N:30:ALA:HB2	2.15	0.60
37:4F:1349:THR:C	37:4F:1350:ILE:HG13	2.23	0.60
37:4G:969:LEU:HG	37:4G:970:SER:N	2.14	0.60
37:4G:1084:ARG:CB	38:4L:37:GLY:CA	2.79	0.60
37:4G:1334:GLU:N	38:4L:27:ALA:C	2.60	0.60
37:4H:958:LEU:HD11	37:4H:971:ALA:H	1.65	0.60
40:4U:239:ARG:HH22	40:4U:677:PRO:HA	1.66	0.60
40:4U:704:GLU:HG2	40:4U:717:GLU:HG3	1.82	0.60
12:4a:139:LEU:HD12	12:4a:170:VAL:HG12	1.83	0.60
12:4a:278:SER:HA	12:4a:281:TYR:HD2	1.65	0.60
12:4c:114:ASP:OD1	12:4c:115:SER:N	2.34	0.60
42:5F:159:VAL:HB	43:5J:156:SER:OG	2.01	0.60
42:5H:139:LEU:CG	43:5L:146:TYR:CG	2.83	0.60
42:5H:158:MET:HG2	43:5L:158:HIS:CD2	2.35	0.60
43:5J:22:HIS:HB3	43:5J:25:LYS:HB2	1.83	0.60
13:5b:273:ALA:O	13:5b:375:VAL:N	2.27	0.60
47:6A:1248:GLU:HG2	51:6M:2324:LEU:HG	1.84	0.60
49:6G:367:THR:HG21	49:6G:387:LYS:H	1.66	0.60
12:6a:207:LEU:HB3	12:6a:225:LEU:HD22	1.82	0.60
12:6c:179:VAL:HG23	13:6d:352:LYS:HB2	1.82	0.60
12:6e:23:VAL:HG11	12:6e:230:SER:OG	2.01	0.60
12:7e:278:SER:C	12:7e:281:TYR:HB2	2.26	0.60
13:7f:140:ALA:HA	13:7f:171:VAL:HG12	1.81	0.60
12:8g:341:PHE:HB3	12:8g:348:ASN:HD22	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:9b:2:ARG:HH22	13:9b:48:ALA:HA	1.66	0.60
13:Af:2:ARG:HH22	13:Af:48:ALA:HA	1.66	0.60
13:Cd:2:ARG:HH22	13:Cd:48:ALA:HA	1.66	0.60
13:Cf:2:ARG:HH22	13:Cf:48:ALA:HA	1.66	0.60
13:Db:207:GLU:OE1	13:Db:304:LYS:NZ	2.30	0.60
13:Dh:2:ARG:HH22	13:Dh:48:ALA:HA	1.66	0.60
1:0R:218:VAL:HB	1:0R:255:LYS:HD2	1.83	0.60
1:0R:319:TYR:CE1	1:0R:358:TRP:CH2	2.88	0.60
1:0S:311:LEU:HD21	1:0S:352:LEU:HA	1.84	0.60
4:1J:20:THR:HG21	13:Bh:423:GLU:OE2	2.02	0.60
7:1O:1132:LEU:HD21	7:1O:1823:PHE:CE2	2.35	0.60
10:1R:364:PHE:CZ	12:Bc:294:TRP:HB3	2.36	0.60
10:1R:379:LYS:HD3	10:1R:388:VAL:HG23	1.83	0.60
24:2T:152:GLU:HA	13:Dh:176:GLN:NE2	2.16	0.60
12:2a:257:LEU:HA	12:2a:312:THR:HG21	1.82	0.60
34:3O:482:LEU:O	34:3O:486:ARG:HD3	2.01	0.60
34:3V:338:LEU:HD21	34:3V:393:ALA:HB2	1.84	0.60
34:3V:404:HIS:O	34:3V:408:ARG:HG2	1.99	0.60
12:3a:60:VAL:CG2	12:3a:86:ARG:HG2	2.31	0.60
12:3a:244:GLY:H	12:3a:247:ASN:HD21	1.48	0.60
13:3b:2:ARG:HH22	13:3b:48:ALA:HA	1.66	0.60
13:3b:187:SER:O	13:3b:191:THR:HG22	2.01	0.60
35:4C:396:THR:HG21	35:4C:421:MET:HG2	1.82	0.60
35:4C:731:ARG:HB2	35:4C:781:LEU:HD12	1.83	0.60
35:4C:837:SER:OG	35:4C:838:PRO:HD3	2.01	0.60
35:4C:1112:PHE:CZ	37:4E:1812:TYR:HA	2.36	0.60
37:4E:404:ALA:O	37:4E:408:VAL:HG23	2.02	0.60
37:4E:578:ASP:N	43:5L:31:ASP:OD1	2.34	0.60
37:4E:935:ARG:HH22	38:4P:72:ARG:HB2	1.65	0.60
37:4E:1119:PRO:O	43:5L:140:LYS:HE2	2.01	0.60
37:4F:429:TYR:CD2	37:4F:854:TYR:CE1	2.90	0.60
37:4G:1321:THR:CG2	38:4L:29:LYS:NZ	2.64	0.60
37:4H:1136:ARG:HD2	38:4M:29:LYS:CD	2.31	0.60
37:4H:1138:VAL:HB	38:4M:33:LYS:HB2	1.82	0.60
37:4H:1333:VAL:HA	37:4H:1334:GLU:OE1	2.01	0.60
38:4K:25:PRO:O	38:4K:28:VAL:CA	2.49	0.60
38:4K:58:VAL:O	38:4K:62:MET:HB2	2.01	0.60
40:4T:322:LEU:O	40:4T:326:VAL:HG23	2.01	0.60
40:4V:704:GLU:HG2	40:4V:717:GLU:HG3	1.82	0.60
13:4b:273:ALA:O	13:4b:375:VAL:N	2.27	0.60
12:4g:177:ASP:OD1	13:4h:248:LEU:HD21	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:135:ARG:HD3	43:5L:56:VAL:N	2.13	0.60
42:5H:135:ARG:CD	43:5L:53:ASP:CA	2.76	0.60
42:5H:137:TYR:CD2	43:5L:47:LYS:HB2	2.36	0.60
43:5I:141:LEU:O	43:5I:144:TYR:HB3	2.01	0.60
43:5J:52:LEU:HA	43:5J:55:TYR:CD2	2.36	0.60
43:5L:22:HIS:HB3	43:5L:25:LYS:HB2	1.84	0.60
43:5L:107:HIS:O	43:5L:118:LEU:N	2.31	0.60
44:5R:93:PHE:CE2	44:5R:145:PHE:HD2	2.18	0.60
13:5f:187:SER:O	13:5f:191:THR:HG22	2.01	0.60
47:6A:11:ASP:HB3	47:6A:12:GLU:CD	2.27	0.60
47:6A:1171:LEU:HD13	47:6A:1301:ALA:HB1	1.84	0.60
47:6B:11:ASP:HB3	47:6B:12:GLU:CD	2.27	0.60
47:6B:1248:GLU:HG2	51:6N:2324:LEU:HG	1.84	0.60
47:6B:1385:ALA:HB1	47:6B:1448:LEU:HD13	1.84	0.60
49:6I:47:ILE:HG12	49:6I:70:THR:HG22	1.84	0.60
49:6J:47:ILE:HG12	49:6J:70:THR:HG22	1.84	0.60
50:6L:433:VAL:HG12	50:6L:499:LYS:NZ	2.16	0.60
51:6N:1822:ALA:HA	51:6N:1825:VAL:HG22	1.83	0.60
12:6a:246:LEU:HB2	12:6a:353:VAL:HG22	1.83	0.60
13:6b:222:PRO:O	12:6c:324:LYS:HB3	2.01	0.60
13:7b:140:ALA:HA	13:7b:171:VAL:HG12	1.81	0.60
13:7d:140:ALA:HA	13:7d:171:VAL:HG12	1.81	0.60
12:7e:275:SER:O	12:7e:279:GLN:HG3	2.01	0.60
13:Ab:207:GLU:OE1	13:Ab:304:LYS:NZ	2.30	0.60
13:Ad:2:ARG:HH22	13:Ad:48:ALA:HA	1.66	0.60
12:Ba:145:SER:O	12:Ba:149:THR:HG23	2.00	0.60
13:Bb:2:ARG:HH22	13:Bb:48:ALA:HA	1.66	0.60
13:Bf:2:ARG:HH22	13:Bf:48:ALA:HA	1.66	0.60
12:Bg:171:PRO:HG3	12:Bg:181:GLU:HG2	1.84	0.60
12:Ca:91:VAL:CG2	12:Ca:116:VAL:HG12	2.31	0.60
13:Cb:399:TYR:O	13:Cb:402:ARG:NH1	2.31	0.60
13:Cf:399:TYR:O	13:Cf:402:ARG:NH1	2.31	0.60
1:0H:72:SER:HB3	1:0H:75:LEU:HG	1.82	0.60
1:0W:225:LEU:O	1:0W:229:VAL:HG22	2.01	0.60
1:0K:227:ARG:HD3	1:0K:266:PHE:HB2	1.83	0.60
1:0A:249:GLY:HA3	47:6A:337:ARG:NH1	2.12	0.60
1:0D:160:ALA:O	1:0D:164:VAL:HG23	2.01	0.60
1:0E:173:VAL:HG22	1:0E:210:ALA:HB2	1.82	0.60
1:0G:349:GLU:O	1:0G:353:LYS:HG3	2.01	0.60
1:0G:358:TRP:HB2	1:0G:399:LYS:HD2	1.82	0.60
1:0Q:358:TRP:CD1	1:0Q:362:GLN:HE22	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0U:59:GLN:HE22	5:1M:597:LYS:HB3	1.67	0.60
1:1B:214:LEU:HD13	1:1B:229:VAL:HG23	1.83	0.60
2:1D:509:LEU:O	6:1N:1991:MET:HE3	2.02	0.60
3:1H:613:LEU:O	3:1H:617:VAL:HG23	2.01	0.60
3:1H:951:TYR:OH	47:6A:391:ARG:NH2	2.31	0.60
6:1N:2725:LEU:HG	6:1N:2761:VAL:HG11	1.84	0.60
10:1R:92:GLN:OE1	13:9d:163:LYS:NZ	2.28	0.60
12:1a:222:PHE:HE2	13:1b:248:LEU:HG	1.66	0.60
12:2a:20:PHE:HA	12:2a:230:SER:HB2	1.83	0.60
13:2f:224:TYR:HE2	12:2g:246:LEU:HB2	1.66	0.60
30:3F:455:ARG:HD2	12:7c:106:TYR:HB3	1.83	0.60
32:3J:199:PRO:HD3	32:3J:204:VAL:HG13	1.83	0.60
34:3N:325:ASP:O	34:3N:329:THR:HG23	2.01	0.60
34:3N:481:LEU:HA	34:3N:484:GLU:CD	2.27	0.60
34:3O:500:TYR:O	34:3O:504:LEU:HG	2.02	0.60
34:3P:339:GLU:O	34:3P:343:THR:HG23	2.01	0.60
34:3P:463:HIS:O	34:3P:467:LEU:HD23	2.00	0.60
34:3T:490:GLN:O	34:3T:494:GLN:HG2	2.02	0.60
34:3U:126:PHE:CD1	34:3U:368:LEU:HD11	2.36	0.60
13:3f:2:ARG:HH22	13:3f:48:ALA:HA	1.66	0.60
35:4C:881:PRO:O	37:4E:596:TYR:HE2	1.84	0.60
37:4E:575:SER:O	43:5L:30:ARG:C	2.44	0.60
37:4E:1090:GLN:HE22	38:4O:30:ALA:HB1	1.67	0.60
37:4E:1109:ARG:O	43:5L:140:LYS:HD2	2.00	0.60
37:4E:1157:CYS:HB2	37:4E:1161:SER:OG	2.00	0.60
37:4F:1082:LEU:HD21	38:4N:43:ASN:H	1.65	0.60
37:4H:935:ARG:NH2	38:4J:72:ARG:C	2.60	0.60
37:4H:1092:LEU:H	38:4M:35:ALA:H	1.46	0.60
40:4U:258:LEU:O	40:4U:259:THR:OG1	2.15	0.60
40:4V:239:ARG:HH22	40:4V:677:PRO:HA	1.66	0.60
13:4b:2:ARG:HH22	13:4b:48:ALA:HA	1.66	0.60
42:5H:45:ALA:CB	42:5H:49:ILE:HD12	2.32	0.60
42:5H:94:CYS:CA	43:5L:44:THR:C	2.71	0.60
42:5H:127:ALA:O	42:5H:130:ALA:HB3	2.01	0.60
42:5H:136:HIS:HB2	43:5L:146:TYR:CE2	2.35	0.60
43:5J:55:TYR:HB3	43:5J:76:PHE:CE2	2.35	0.60
43:5K:55:TYR:O	43:5K:58:THR:OG1	2.17	0.60
43:5L:51:HIS:CE1	43:5L:146:TYR:CZ	2.90	0.60
13:5b:2:ARG:HH22	13:5b:48:ALA:HA	1.66	0.60
13:5b:398:MET:HG3	12:5c:346:PRO:HD3	1.84	0.60
47:6A:1385:ALA:HB1	47:6A:1448:LEU:HD13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6G:15:LYS:HD3	49:6G:42:LEU:HD13	1.83	0.60
50:6K:433:VAL:HG12	50:6K:499:LYS:NZ	2.16	0.60
13:7f:187:SER:O	13:7f:191:THR:HG22	2.01	0.60
13:8b:2:ARG:HH22	13:8b:48:ALA:HA	1.66	0.60
13:8f:2:ARG:HH22	13:8f:48:ALA:HA	1.66	0.60
13:Ab:2:ARG:HH22	13:Ab:48:ALA:HA	1.66	0.60
12:Ac:323:THR:HA	12:Ac:326:VAL:HG12	1.83	0.60
13:Af:187:SER:O	13:Af:191:THR:HG22	2.01	0.60
13:Af:207:GLU:OE1	13:Af:304:LYS:NZ	2.30	0.60
12:Be:249:ASP:H	12:Be:252:LYS:HD2	1.64	0.60
13:Bh:2:ARG:HH22	13:Bh:48:ALA:HA	1.66	0.60
12:Cc:87:PRO:HG2	12:Dc:278:SER:OG	2.01	0.60
13:Ch:399:TYR:O	13:Ch:402:ARG:NH1	2.31	0.60
1:0H:285:LEU:O	1:0H:289:VAL:HG23	2.01	0.60
1:0I:97:ARG:HB3	1:0I:138:ASP:OD2	2.02	0.60
1:0B:417:LEU:O	1:0B:421:VAL:HG23	2.01	0.60
1:0L:51:LEU:HD12	1:0M:51:LEU:HD22	1.83	0.60
1:0L:363:ILE:HG22	1:0L:370:HIS:HB3	1.84	0.60
1:0P:193:ASP:HA	1:0P:196:LYS:HE3	1.83	0.60
1:0Q:97:ARG:HB3	1:0Q:138:ASP:OD2	2.01	0.60
1:0T:363:ILE:HG22	1:0T:370:HIS:HB3	1.83	0.60
3:1H:993:ALA:O	3:1H:997:GLU:HG3	2.01	0.60
4:1K:212:LYS:HG2	4:1K:255:VAL:HG22	1.83	0.60
5:1M:560:MET:HE2	13:1f:262:TYR:CG	2.37	0.60
6:1N:1398:HIS:ND1	6:1N:1436:TYR:HB3	2.17	0.60
10:1R:247:GLY:O	10:1R:258:THR:OG1	2.18	0.60
13:1b:187:SER:O	13:1b:191:THR:HG22	2.01	0.60
12:2c:60:VAL:HG21	12:2c:86:ARG:HH22	1.65	0.60
12:2e:397:TRP:HZ2	13:2f:260:VAL:HB	1.66	0.60
30:3F:301:VAL:CA	13:6f:264:ARG:HE	2.15	0.60
31:3I:102:VAL:HG23	31:3I:105:LEU:HD22	1.83	0.60
33:3L:109:ILE:HD13	33:3L:112:LEU:HD12	1.82	0.60
34:3N:107:TYR:CE2	34:3N:111:ILE:HD11	2.37	0.60
34:3N:338:LEU:HD21	34:3N:393:ALA:CB	2.31	0.60
34:3P:495:GLN:O	34:3P:498:LEU:HG	2.02	0.60
34:3U:93:VAL:O	34:3U:97:LEU:HG	2.01	0.60
34:3W:258:TYR:HE2	34:3W:477:GLU:CD	2.09	0.60
13:3d:187:SER:O	13:3d:191:THR:HG22	2.01	0.60
13:3h:2:ARG:HH22	13:3h:48:ALA:HA	1.66	0.60
13:3h:434:GLU:OE2	39:4Q:165:LYS:C	2.44	0.60
37:4G:943:ASP:OD1	37:4G:951:ASN:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1083:ILE:HG21	37:4G:1352:PRO:HG3	1.83	0.60
37:4G:1094:ALA:CB	38:4L:36:VAL:CG1	2.57	0.60
37:4G:1136:ARG:NH1	37:4G:1319:ASP:OD2	2.35	0.60
37:4H:922:SER:HB2	37:4H:935:ARG:HG2	1.83	0.60
37:4H:972:PHE:CE1	38:4M:41:LYS:CE	2.84	0.60
37:4H:1093:VAL:HA	38:4M:35:ALA:HB3	1.84	0.60
38:4I:58:VAL:O	38:4I:62:MET:HB2	2.01	0.60
40:4T:239:ARG:HH22	40:4T:677:PRO:HA	1.66	0.60
40:4T:704:GLU:HG2	40:4T:717:GLU:HG3	1.82	0.60
40:4V:322:LEU:O	40:4V:326:VAL:HG23	2.01	0.60
41:4Y:86:TYR:HA	41:4Y:105:TYR:HA	1.84	0.60
12:4a:86:ARG:HD3	12:5a:281:TYR:CD1	2.31	0.60
13:4h:12:ALA:HB3	13:4h:140:ALA:HB2	1.84	0.60
13:4h:187:SER:O	13:4h:191:THR:HG22	2.01	0.60
43:5J:51:HIS:CE1	43:5J:146:TYR:CZ	2.90	0.60
43:5J:55:TYR:O	43:5J:58:THR:OG1	2.17	0.60
43:5K:39:LEU:HD22	43:5K:48:THR:HG22	1.82	0.60
43:5L:52:LEU:HA	43:5L:55:TYR:CD2	2.36	0.60
12:5c:135:VAL:HG11	12:5c:152:ILE:HD11	1.83	0.60
47:6A:76:THR:HA	47:6A:152:PHE:CE1	2.37	0.60
47:6B:1171:LEU:HD13	47:6B:1301:ALA:HB1	1.84	0.60
49:6I:205:LEU:H	49:6I:305:LYS:HZ1	1.49	0.60
49:6J:205:LEU:H	49:6J:305:LYS:HZ1	1.49	0.60
13:6b:181:VAL:HG22	12:6c:347:ASN:O	2.00	0.60
13:7h:187:SER:O	13:7h:191:THR:HG22	2.01	0.60
12:8a:86:ARG:NH1	12:8a:88:ASP:OD2	2.33	0.60
13:8f:403:ALA:HB2	12:8g:344:TRP:CZ3	2.36	0.60
13:8h:2:ARG:HH22	13:8h:48:ALA:HA	1.66	0.60
13:Ab:187:SER:O	13:Ab:191:THR:HG22	2.01	0.60
12:Bc:140:GLY:HA2	12:Bc:184:ASN:HB2	1.83	0.60
13:Cd:399:TYR:O	13:Cd:402:ARG:NH1	2.31	0.60
13:Ch:2:ARG:HH22	13:Ch:48:ALA:HA	1.66	0.60
12:De:3:GLU:HB3	12:De:62:ARG:HH21	1.66	0.60
13:Df:273:ALA:O	13:Df:375:VAL:N	2.27	0.60
1:0B:76:ALA:HB1	1:0B:110:VAL:HG23	1.84	0.60
1:0B:172:LEU:O	1:0B:176:VAL:HG23	2.01	0.60
1:0B:373:ALA:O	1:0B:377:THR:HG23	2.01	0.60
1:0L:91:SER:HA	1:0L:99:TYR:CE2	2.35	0.60
1:0P:311:LEU:HD22	1:0P:351:HIS:CD2	2.36	0.60
1:0R:126:ALA:O	1:0R:129:SER:OG	2.11	0.60
1:0T:316:ALA:O	1:0T:320:ILE:HG13	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Y:311:LEU:HD21	1:0Y:352:LEU:HA	1.84	0.60
1:0Z:17:ARG:O	1:0Z:21:VAL:HG23	2.02	0.60
1:1A:346:GLU:HG3	1:1A:347:GLU:CD	2.26	0.60
1:1B:230:CYS:HB2	1:1B:270:HIS:HB3	1.83	0.60
1:1B:353:LYS:HD3	1:1B:386:LEU:HD21	1.82	0.60
2:1D:224:ALA:O	2:1D:228:ILE:HD12	2.00	0.60
2:1F:358:VAL:HG13	2:1F:363:VAL:HB	1.82	0.60
2:1G:170:ASN:HB2	2:1G:212:THR:HG22	1.82	0.60
4:1J:212:LYS:HG2	4:1J:255:VAL:HG22	1.83	0.60
10:1R:279:PHE:HD2	10:1R:283:ARG:NH2	1.98	0.60
12:1c:9:GLY:HA2	12:1c:66:MET:HE3	1.84	0.60
13:1f:187:SER:O	13:1f:191:THR:HG22	2.01	0.60
12:1g:139:LEU:HD12	12:1g:170:VAL:HG22	1.84	0.60
12:2e:52:ASN:O	12:2e:60:VAL:HG22	2.02	0.60
30:3G:662:GLY:O	30:3G:666:VAL:HG23	2.01	0.60
30:3G:685:ARG:HD2	13:7d:339:ARG:NH2	2.13	0.60
34:3R:103:LEU:HD11	34:3R:390:LEU:CD1	2.32	0.60
34:3S:99:ARG:O	34:3S:103:LEU:HG	2.02	0.60
34:3S:397:LEU:HA	34:3S:400:LEU:HD12	1.82	0.60
34:3X:38:HIS:CE1	34:3X:452:HIS:CE1	2.89	0.60
12:3a:213:ARG:HD2	12:3a:297:LYS:HB3	1.84	0.60
12:3a:272:PRO:HD3	12:3a:364:SER:HA	1.83	0.60
12:3c:67:ASP:OD2	12:3c:72:THR:OG1	2.17	0.60
13:3f:187:SER:O	13:3f:191:THR:HG22	2.01	0.60
37:4G:910:LEU:CD1	37:4G:915:SER:HB2	2.30	0.60
38:4I:25:PRO:O	38:4I:28:VAL:CA	2.49	0.60
39:4S:20:PHE:CZ	43:5K:121:PHE:CZ	2.90	0.60
12:4e:20:PHE:HA	12:4e:230:SER:HB2	1.84	0.60
42:5E:143:VAL:CG2	43:5I:141:LEU:CD1	2.75	0.60
42:5H:136:HIS:HB2	43:5L:146:TYR:HE2	1.67	0.60
43:5I:51:HIS:CE1	43:5I:146:TYR:CZ	2.90	0.60
43:5I:52:LEU:HA	43:5I:55:TYR:CD2	2.36	0.60
43:5K:51:HIS:CE1	43:5K:146:TYR:CZ	2.90	0.60
48:6F:607:HIS:HE1	48:6F:624:THR:HB	1.65	0.60
49:6H:15:LYS:HD3	49:6H:42:LEU:HD13	1.83	0.60
49:6I:391:ILE:HG21	49:6I:397:SER:HB3	1.82	0.60
13:8d:2:ARG:HH22	13:8d:48:ALA:HA	1.66	0.60
12:Ba:276:ARG:HA	12:Ba:279:GLN:NE2	2.17	0.60
12:Bc:153:SER:O	12:Bc:157:GLU:HG2	2.01	0.60
13:Bd:62:VAL:HG21	13:Cd:283:HIS:O	2.02	0.60
12:Be:3:GLU:HB3	12:Be:62:ARG:NH2	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ca:170:VAL:HG21	12:Ca:201:VAL:HG13	1.84	0.60
13:Dd:273:ALA:O	13:Dd:375:VAL:N	2.27	0.60
13:Df:2:ARG:HH22	13:Df:48:ALA:HA	1.66	0.60
44:5P:55:MET:SD	44:5P:75:LEU:HD22	2.42	0.60
1:0F:225:LEU:O	1:0F:229:VAL:HG22	2.02	0.60
1:0M:367:THR:HB	1:0M:370:HIS:HD2	1.64	0.60
1:0N:56:SER:HB2	12:Ac:406:MET:HB2	1.84	0.60
1:0P:269:LYS:O	1:0P:273:THR:HG23	2.01	0.60
1:0Y:282:THR:OG1	1:0Y:285:LEU:HG	2.01	0.60
1:0Y:363:ILE:HG22	1:0Y:370:HIS:HB3	1.83	0.60
1:0Z:128:ASP:HA	1:0Z:131:VAL:HG22	1.83	0.60
1:1B:37:LEU:HD23	1:1B:68:LEU:HD21	1.83	0.60
1:1B:252:ILE:O	1:1B:256:ILE:HG13	2.01	0.60
2:1D:189:LEU:HD23	2:1D:192:LEU:HD12	1.84	0.60
10:1R:430:HIS:CE1	12:Aa:77:ARG:CD	2.85	0.60
13:1h:2:ARG:HH22	13:1h:48:ALA:HA	1.66	0.60
12:2c:341:PHE:HB3	12:2c:348:ASN:HD22	1.66	0.60
31:3H:140:MET:HG3	31:3H:182:GLN:HG3	1.82	0.60
32:3K:118:TYR:CD1	32:3K:139:TYR:HB3	2.37	0.60
34:3N:77:GLN:HG3	34:3Q:47:ASN:ND2	2.16	0.60
34:3O:254:MET:HA	34:3O:257:LYS:HG2	1.84	0.60
34:3O:453:ARG:O	34:3O:456:LEU:HG	2.02	0.60
34:3S:52:GLN:OE1	34:3S:288:MET:HG2	2.01	0.60
34:3S:384:ASN:HA	34:3S:387:VAL:HG22	1.84	0.60
34:4B:494:GLN:HA	34:4B:497:MET:HE2	1.84	0.60
37:4E:509:PRO:O	37:4E:510:HIS:CG	2.55	0.60
37:4E:1724:ARG:NH2	37:4E:1740:LEU:HG	2.17	0.60
37:4G:540:VAL:HG11	38:4L:69:CYS:HG	1.67	0.60
37:4G:922:SER:HB2	37:4G:935:ARG:HG2	1.83	0.60
37:4H:664:TYR:CZ	38:4J:50:ARG:NH2	2.69	0.60
37:4H:1144:LEU:HD23	37:4H:1156:LEU:HB2	1.83	0.60
38:4L:73:PRO:HD2	38:4L:76:PRO:CG	2.28	0.60
38:4O:61:LEU:O	38:4O:65:MET:HG2	2.02	0.60
43:5J:158:HIS:HD1	43:5J:160:SER:HB3	1.67	0.60
43:5L:42:TYR:H	43:5L:42:TYR:HD2	1.47	0.60
12:5a:213:ARG:HD2	12:5a:297:LYS:HD2	1.83	0.60
13:5b:187:SER:O	13:5b:191:THR:HG22	2.01	0.60
12:5e:91:VAL:HG21	12:5e:116:VAL:HG12	1.82	0.60
12:5g:341:PHE:HB3	12:5g:348:ASN:HD22	1.67	0.60
13:5h:12:ALA:HB3	13:5h:140:ALA:HB2	1.84	0.60
3:6D:59:GLN:HB2	3:6D:109:LEU:HD23	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6H:116:ILE:HD12	49:6H:139:LEU:HD21	1.84	0.60
49:6J:15:LYS:HD3	49:6J:42:LEU:HD13	1.83	0.60
51:6N:1351:GLU:HG2	51:6N:1552:GLU:HG2	1.83	0.60
13:7d:187:SER:O	13:7d:191:THR:HG22	2.01	0.60
12:8a:311:LEU:HD13	12:8a:342:VAL:HG11	1.83	0.60
13:Ch:12:ALA:HB3	13:Ch:140:ALA:HB2	1.84	0.60
13:Dd:2:ARG:HH22	13:Dd:48:ALA:HA	1.66	0.60
12:De:176:SER:OG	13:Df:349:THR:HB	2.01	0.60
1:0J:365:ARG:HG3	1:0J:406:SER:OG	2.02	0.60
1:0W:163:VAL:HG12	1:0W:168:ALA:HB1	1.83	0.60
1:0B:322:ALA:HB2	1:0B:362:GLN:HG2	1.84	0.60
1:0C:193:ASP:HA	1:0C:196:LYS:HE3	1.83	0.60
1:0D:363:ILE:HG22	1:0D:370:HIS:HB3	1.84	0.60
1:0E:143:GLU:HG3	1:0E:186:ILE:HD13	1.84	0.60
1:0M:225:LEU:O	1:0M:229:VAL:HG22	2.01	0.60
1:0P:129:SER:O	1:0P:132:THR:HG22	2.01	0.60
1:0R:21:VAL:HG22	1:0R:49:LEU:HD13	1.82	0.60
1:0R:230:CYS:HB2	1:0R:270:HIS:HB3	1.83	0.60
1:0S:46:LEU:HB3	1:0S:65:LEU:CD2	2.32	0.60
1:0V:395:ASP:OD1	1:0V:396:LEU:N	2.35	0.60
1:0Z:196:LYS:HB3	1:0Z:235:GLN:HG3	1.84	0.60
2:1G:358:VAL:HG13	2:1G:363:VAL:HB	1.83	0.60
3:1H:936:ILE:HD12	47:6A:371:MET:HE3	1.83	0.60
3:1H:1005:PRO:CG	47:6A:402:MET:HG2	2.32	0.60
3:1H:1016:MET:HB3	48:6F:349:GLY:C	2.27	0.60
12:1c:406:MET:HA	12:1c:409:THR:HG22	1.82	0.60
15:2H:162:UNK:CB	13:7h:1:MET:HE3	2.32	0.60
13:2f:241:SER:OG	13:2f:250:VAL:O	2.20	0.60
12:2g:177:ASP:O	13:2h:352:LYS:HA	2.02	0.60
13:2h:241:SER:OG	13:2h:250:VAL:O	2.20	0.60
30:3G:527:PHE:HE2	30:3G:544:LEU:HD12	1.67	0.60
34:3M:501:ASP:O	34:3M:505:THR:HG23	2.01	0.60
34:3N:77:GLN:HB3	34:3N:317:ARG:HH21	1.66	0.60
34:3R:259:MET:O	34:3R:263:LYS:HG3	2.02	0.60
34:3Z:255:HIS:O	34:3Z:259:MET:HG2	2.02	0.60
13:3b:12:ALA:HB3	13:3b:140:ALA:HB2	1.84	0.60
12:3c:140:GLY:HA2	12:3c:184:ASN:HB2	1.83	0.60
13:3f:12:ALA:HB3	13:3f:140:ALA:HB2	1.84	0.60
13:3h:12:ALA:HB3	13:3h:140:ALA:HB2	1.84	0.60
34:4B:464:LEU:HD12	34:4B:465:LYS:HD2	1.83	0.60
37:4E:603:ASP:OD2	37:4E:623:ARG:NH2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4M:58:VAL:O	38:4M:62:MET:HB2	2.01	0.60
12:4a:87:PRO:HD3	12:5a:281:TYR:CE1	2.36	0.60
12:4a:278:SER:CA	12:4a:281:TYR:HB2	2.32	0.60
13:4f:12:ALA:HB3	13:4f:140:ALA:HB2	1.84	0.60
43:5I:22:HIS:HB3	43:5I:25:LYS:HB2	1.83	0.60
44:5V:110:ARG:HH21	44:5V:129:ILE:CD1	2.15	0.60
13:5b:12:ALA:HB3	13:5b:140:ALA:HB2	1.84	0.60
13:5b:241:SER:OG	13:5b:250:VAL:O	2.20	0.60
12:5e:86:ARG:HA	12:6e:281:TYR:CD1	2.37	0.60
13:5h:241:SER:OG	13:5h:250:VAL:O	2.20	0.60
47:6A:877:SER:HB2	48:6F:60:GLY:CA	2.32	0.60
47:6B:76:THR:HA	47:6B:152:PHE:CE1	2.37	0.60
48:6E:607:HIS:HE1	48:6E:624:THR:HB	1.65	0.60
48:6F:979:PHE:O	48:6F:983:ILE:HG12	2.02	0.60
49:6G:116:ILE:HD12	49:6G:139:LEU:HD21	1.84	0.60
49:6H:69:TYR:CE1	49:6H:74:MET:HG2	2.37	0.60
49:6I:15:LYS:HD3	49:6I:42:LEU:HD13	1.83	0.60
49:6I:116:ILE:HD12	49:6I:139:LEU:HD21	1.84	0.60
49:6I:358:GLN:HB2	49:6I:473:ARG:HE	1.67	0.60
50:6K:307:ARG:O	50:6K:310:GLU:HG2	2.02	0.60
50:6L:574:GLU:HG2	50:6L:578:LYS:HE3	1.84	0.60
13:6h:399:TYR:O	13:6h:402:ARG:NH1	2.31	0.60
12:Bg:274:THR:HG21	12:Bg:279:GLN:HA	1.83	0.60
13:Dh:12:ALA:HB3	13:Dh:140:ALA:HB2	1.84	0.60
1:0H:224:LYS:HG3	1:0H:225:LEU:HD12	1.84	0.60
1:0J:311:LEU:HD21	1:0J:352:LEU:HA	1.83	0.60
1:0I:358:TRP:CD1	1:0I:362:GLN:HE22	2.19	0.60
1:0D:262:PHE:HE2	1:0D:264:ASP:HB2	1.67	0.60
1:0M:152:ILE:HG23	1:0M:159:LEU:HD12	1.84	0.60
1:0P:224:LYS:HG3	1:0P:225:LEU:HD12	1.84	0.60
1:0R:184:LYS:HB3	1:0R:217:LEU:HD21	1.84	0.60
1:0V:67:ARG:HG3	1:0V:105:PHE:HE2	1.65	0.60
1:0Z:230:CYS:HB2	1:0Z:270:HIS:HB3	1.84	0.60
2:1E:82:LEU:HD11	2:1E:118:PRO:CB	2.32	0.60
2:1E:224:ALA:O	2:1E:228:ILE:HD12	2.01	0.60
7:1O:768:LEU:HD21	8:1P:858:LEU:HD11	1.83	0.60
8:1P:1006:LEU:HD22	8:1P:1021:LEU:HD12	1.84	0.60
10:1R:155:THR:CG2	13:9b:96:LYS:HB2	2.24	0.60
13:1d:2:ARG:HH22	13:1d:48:ALA:HA	1.66	0.60
12:1g:274:THR:HG22	12:1g:282:ARG:HD3	1.83	0.60
14:2G:167:TRP:HB2	12:Ae:361:LEU:HD13	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2T:124:ALA:O	24:2T:128:VAL:HG23	2.02	0.60
13:2b:241:SER:OG	13:2b:250:VAL:O	2.20	0.60
13:2d:241:SER:OG	13:2d:250:VAL:O	2.20	0.60
30:3F:390:ASP:OD2	13:8f:339:ARG:NH2	2.35	0.60
30:3G:747:ARG:CB	12:6a:402:GLY:HA3	2.31	0.60
34:3N:96:HIS:CG	34:3N:335:SER:HG	2.20	0.60
34:3P:506:GLU:HA	34:3S:33:GLN:NE2	2.16	0.60
13:3b:406:HIS:CD2	12:3c:261:PRO:HD3	2.37	0.60
13:3d:12:ALA:HB3	13:3d:140:ALA:HB2	1.84	0.60
12:3e:3:GLU:HB3	12:3e:62:ARG:NH2	2.17	0.60
35:4C:298:VAL:HB	35:4C:386:LEU:CD1	2.32	0.60
37:4E:585:VAL:HG13	43:5L:37:THR:HG22	0.79	0.60
37:4E:585:VAL:HA	43:5L:37:THR:HG22	1.80	0.60
37:4E:962:THR:OG1	38:4P:70:LYS:O	2.15	0.60
37:4G:798:MET:HB3	37:4G:813:CYS:HA	1.84	0.60
37:4G:1083:ILE:HD13	38:4L:34:ALA:HB3	1.83	0.60
37:4H:1357:THR:O	37:4H:1369:GLY:HA2	2.01	0.60
12:4a:73:MET:HE3	12:4a:92:PHE:HB3	1.82	0.60
12:4c:140:GLY:HA2	12:4c:184:ASN:HB2	1.82	0.60
12:4e:406:MET:SD	12:4e:409:THR:OG1	2.59	0.60
13:5f:403:ALA:HB2	12:5g:344:TRP:CZ3	2.37	0.60
47:6B:843:ARG:NH2	47:6B:870:LEU:O	2.34	0.60
48:6E:565:TRP:O	48:6E:569:VAL:HG23	2.02	0.60
48:6E:800:LEU:HD12	49:6I:20:LEU:HD12	1.83	0.60
48:6E:874:LEU:HD11	48:6E:951:VAL:HG22	1.84	0.60
48:6F:565:TRP:O	48:6F:569:VAL:HG23	2.02	0.60
49:6G:44:PRO:HG2	49:6I:30:GLU:CD	2.27	0.60
49:6I:95:ASP:OD2	49:6I:107:THR:OG1	2.20	0.60
50:6K:510:THR:HG23	50:6K:512:ASP:H	1.67	0.60
50:6K:574:GLU:HG2	50:6K:578:LYS:HE3	1.84	0.60
50:6L:307:ARG:O	50:6L:310:GLU:HG2	2.02	0.60
50:6L:510:THR:HG23	50:6L:512:ASP:H	1.67	0.60
13:6d:399:TYR:O	13:6d:402:ARG:NH1	2.31	0.60
12:8c:113:ILE:HA	12:8c:116:VAL:CG1	2.32	0.60
12:8e:91:VAL:HG21	12:8e:116:VAL:HG12	1.83	0.60
13:8f:222:PRO:HD2	12:8g:324:LYS:HG2	1.84	0.60
13:8h:187:SER:O	13:8h:191:THR:HG22	2.01	0.60
12:9a:58:ARG:NH2	12:Aa:281:TYR:CZ	2.70	0.60
12:9a:390:ARG:HG3	12:9a:391:ARG:H	1.67	0.60
12:9c:341:PHE:HB3	12:9c:348:ASN:HD22	1.67	0.60
12:9e:73:MET:HE3	12:9e:92:PHE:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Aa:171:PRO:HG3	12:Aa:181:GLU:HG2	1.83	0.60
12:Ag:87:PRO:HA	12:Ag:90:PHE:HD1	1.67	0.60
12:Ba:208:TYR:CZ	12:Ba:225:LEU:HD11	2.37	0.60
12:Ca:417:ASP:O	12:Ca:421:GLU:HG2	2.02	0.60
13:Cf:12:ALA:HB3	13:Cf:140:ALA:HB2	1.84	0.60
12:Dg:177:ASP:O	13:Dh:352:LYS:HA	2.01	0.60
1:0H:311:LEU:HD22	1:0H:351:HIS:CD2	2.36	0.60
1:0E:353:LYS:HD3	1:0E:386:LEU:HD22	1.83	0.60
1:0F:263:PRO:HG3	39:4Q:147:GLN:OE1	2.02	0.60
1:0F:324:SER:OG	1:0F:327:LEU:HD23	2.00	0.60
1:0M:101:GLN:HG3	1:0M:141:VAL:HG12	1.82	0.60
1:0P:52:ASP:H	1:0P:58:GLN:NE2	1.91	0.60
1:0P:72:SER:HB3	1:0P:75:LEU:HG	1.82	0.60
1:0Y:65:LEU:HD11	1:0Y:84:ILE:HD13	1.84	0.60
1:1A:248:VAL:HA	1:1A:253:PHE:HE2	1.67	0.60
1:1B:131:VAL:HB	1:1B:171:LEU:HD22	1.82	0.60
1:1C:169:VAL:O	1:1C:173:VAL:HG23	2.02	0.60
2:1F:391:LYS:HB3	2:1F:425:ALA:O	2.01	0.60
3:1I:504:LEU:HD22	3:1I:527:CYS:SG	2.42	0.60
6:1N:1250:LEU:HD21	6:1N:1371:ALA:HB2	1.82	0.60
10:1R:204:ALA:O	10:1R:208:MET:HG3	2.02	0.60
13:1f:2:ARG:HH22	13:1f:48:ALA:HA	1.66	0.60
24:2U:152:GLU:OE1	13:Dd:176:GLN:NE2	2.31	0.60
12:2e:99:ASN:HA	12:2e:142:GLY:H	1.66	0.60
12:2g:55:THR:HG21	12:3g:284:LEU:HD13	1.83	0.60
32:3J:58:LEU:HD11	32:3J:116:TYR:CE2	2.37	0.60
12:3a:395:LEU:O	12:3a:399:THR:HG23	2.02	0.60
13:3d:427:ALA:HB1	39:4S:167:HIS:NE2	2.17	0.60
13:3h:187:SER:O	13:3h:191:THR:HG22	2.01	0.60
37:4E:586:PHE:CD2	43:5L:10:LEU:HB3	2.37	0.60
37:4F:671:LEU:HB3	38:4K:39:HIS:HB3	1.82	0.60
37:4F:1091:VAL:O	37:4F:1093:VAL:HG23	2.02	0.60
37:4F:1334:GLU:HB3	38:4N:28:VAL:CA	2.31	0.60
37:4F:1336:ASP:O	37:4F:1707:PRO:O	2.20	0.60
37:4G:431:ALA:HA	37:4G:434:TYR:H	1.65	0.60
37:4H:1316:GLN:O	37:4H:1321:THR:N	2.23	0.60
37:4H:1333:VAL:CG2	37:4H:1341:ILE:O	2.50	0.60
38:4O:68:LEU:HD11	38:4O:80:LEU:HD12	1.83	0.60
13:4d:12:ALA:HB3	13:4d:140:ALA:HB2	1.84	0.60
42:5E:138:ARG:NH1	43:5I:30:ARG:HH22	1.93	0.60
42:5H:137:TYR:HB2	43:5L:49:ALA:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5I:42:TYR:H	43:5I:42:TYR:HD2	1.47	0.60
43:5I:96:SER:HG	43:5I:136:TYR:HE1	1.49	0.60
44:5V:97:ASP:HB3	44:5V:142:TYR:OH	2.01	0.60
13:5d:241:SER:OG	13:5d:250:VAL:O	2.20	0.60
13:5d:273:ALA:O	13:5d:375:VAL:N	2.27	0.60
13:5f:12:ALA:HB3	13:5f:140:ALA:HB2	1.84	0.60
13:5f:241:SER:OG	13:5f:250:VAL:O	2.20	0.60
13:5h:2:ARG:HH22	13:5h:48:ALA:HA	1.66	0.60
48:6E:979:PHE:O	48:6E:983:ILE:HG12	2.02	0.60
48:6F:800:LEU:HD13	49:6J:17:GLU:OE2	2.01	0.60
49:6G:69:TYR:CE1	49:6G:74:MET:HG2	2.37	0.60
49:6J:116:ILE:HD12	49:6J:139:LEU:HD21	1.84	0.60
51:6N:1399:VAL:O	51:6N:1402:ARG:HG2	2.02	0.60
13:6f:399:TYR:O	13:6f:402:ARG:NH1	2.31	0.60
13:6h:420:GLU:HG2	1:0K:4:ARG:HB2	1.84	0.60
13:8d:187:SER:O	13:8d:191:THR:HG22	2.01	0.60
12:8g:177:ASP:N	12:8g:181:GLU:OE2	2.34	0.60
13:9b:12:ALA:HB3	13:9b:140:ALA:HB2	1.84	0.60
13:9h:241:SER:OG	13:9h:250:VAL:O	2.20	0.60
12:Be:172:SER:OG	12:Be:175:VAL:O	2.20	0.60
12:Bg:313:ALA:O	12:Bg:349:VAL:HA	2.01	0.60
12:Ca:178:THR:HG22	13:Cb:352:LYS:HZ3	1.65	0.60
13:Db:224:TYR:HE2	12:Dc:246:LEU:HB2	1.67	0.60
13:Db:399:TYR:O	13:Db:402:ARG:NH1	2.31	0.60
13:Dd:12:ALA:HB3	13:Dd:140:ALA:HB2	1.84	0.60
13:Dh:241:SER:OG	13:Dh:250:VAL:O	2.20	0.60
1:0B:47:ARG:HH22	47:6B:121:LEU:C	2.09	0.59
1:0B:311:LEU:HD21	1:0B:352:LEU:HA	1.84	0.59
1:0F:261:LYS:HD3	39:4Q:136:LEU:CB	2.25	0.59
1:0Q:363:ILE:HG22	1:0Q:370:HIS:HB3	1.84	0.59
1:0T:244:ALA:O	1:0T:248:VAL:HG23	2.02	0.59
1:0Y:417:LEU:O	1:0Y:421:VAL:HG23	2.02	0.59
1:0Z:34:ILE:HA	1:0Z:37:LEU:HD12	1.84	0.59
2:1E:503:ALA:O	2:1E:507:HIS:N	2.34	0.59
6:1N:1715:TRP:HE1	6:1N:1738:ALA:CA	2.14	0.59
8:1P:982:ARG:HD2	8:1P:986:ASP:OD2	2.02	0.59
10:1R:342:LEU:HD22	12:Ac:190:HIS:NE2	2.16	0.59
10:1S:392:LEU:HD11	13:Bf:338:LYS:HD3	1.84	0.59
10:1S:432:THR:HB	12:Ae:83:GLN:OE1	2.02	0.59
13:1d:12:ALA:HB3	13:1d:140:ALA:HB2	1.84	0.59
13:1d:241:SER:OG	13:1d:250:VAL:O	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:2F:161:VAL:HG11	12:Aa:224:ASP:HA	1.83	0.59
14:2G:46:ARG:NH1	12:De:75:SER:HA	2.16	0.59
17:2J:98:UNK:CB	13:9b:79:ARG:HD3	2.32	0.59
29:3E:1167:LEU:HD21	12:5e:425:TYR:HE1	1.67	0.59
30:3F:372:GLU:OE2	13:8f:390:ARG:HD3	2.02	0.59
34:3S:48:HIS:HD1	34:3S:221:ALA:C	2.09	0.59
34:3Y:259:MET:O	34:3Y:263:LYS:HG3	2.02	0.59
12:3a:175:VAL:HG21	13:3b:332:VAL:HG13	1.84	0.59
37:4E:584:ALA:CB	37:4E:586:PHE:H	2.14	0.59
37:4F:826:LEU:CD1	38:4N:82:TYR:HE1	2.15	0.59
37:4G:1093:VAL:HG23	38:4L:35:ALA:C	2.27	0.59
37:4G:1681:ARG:HB3	37:4G:1697:SER:OG	2.02	0.59
37:4H:1138:VAL:CA	38:4M:33:LYS:CG	2.80	0.59
38:4L:25:PRO:O	38:4L:28:VAL:CA	2.49	0.59
38:4M:25:PRO:O	38:4M:28:VAL:CA	2.49	0.59
38:4M:33:LYS:HE3	38:4M:33:LYS:HA	1.85	0.59
38:4N:25:PRO:O	38:4N:28:VAL:CA	2.49	0.59
39:4R:176:PRO:HB3	39:4R:182:PRO:HD3	1.84	0.59
40:4T:404:ASP:OD2	40:4T:406:SER:HB3	2.02	0.59
40:4V:404:ASP:OD2	40:4V:406:SER:HB3	2.03	0.59
13:4b:12:ALA:HB3	13:4b:140:ALA:HB2	1.84	0.59
13:4b:241:SER:OG	13:4b:250:VAL:O	2.20	0.59
42:5H:52:ASP:HB3	43:5L:141:LEU:HD13	1.83	0.59
43:5I:42:TYR:CD2	43:5I:42:TYR:N	2.59	0.59
43:5L:39:LEU:HD22	43:5L:48:THR:HG22	1.83	0.59
43:5L:96:SER:HG	43:5L:136:TYR:HE1	1.49	0.59
13:5d:12:ALA:HB3	13:5d:140:ALA:HB2	1.84	0.59
47:6B:1338:LEU:HD11	47:6B:1376:LEU:HD22	1.83	0.59
48:6F:303:LEU:CD1	48:6F:306:VAL:HB	2.32	0.59
48:6F:957:HIS:O	50:6L:441:GLN:NE2	2.29	0.59
49:6J:95:ASP:OD2	49:6J:107:THR:OG1	2.20	0.59
49:6J:358:GLN:HB2	49:6J:473:ARG:HE	1.67	0.59
12:7e:73:MET:HE3	12:7e:92:PHE:HB3	1.82	0.59
13:8f:187:SER:O	13:8f:191:THR:HG22	2.01	0.59
13:9d:241:SER:OG	13:9d:250:VAL:O	2.20	0.59
13:Ad:177:VAL:HB	12:Ae:331:LEU:HD22	1.84	0.59
12:Ae:20:PHE:HA	12:Ae:230:SER:HB2	1.83	0.59
12:Ae:208:TYR:HA	12:Ae:211:CYS:SG	2.42	0.59
12:Be:208:TYR:OH	13:Bf:325:PRO:HB2	2.01	0.59
13:Cd:12:ALA:HB3	13:Cd:140:ALA:HB2	1.84	0.59
12:Cg:111:GLU:N	12:Cg:111:GLU:OE1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Da:377:MET:O	12:Da:381:VAL:HG23	2.02	0.59
13:Db:2:ARG:HH22	13:Db:48:ALA:HA	1.66	0.59
13:Dd:241:SER:OG	13:Dd:250:VAL:O	2.20	0.59
13:Df:12:ALA:HB3	13:Df:140:ALA:HB2	1.84	0.59
13:Df:224:TYR:HE2	12:Dg:246:LEU:HB2	1.67	0.59
13:Df:241:SER:OG	13:Df:250:VAL:O	2.20	0.59
13:Dh:273:ALA:O	13:Dh:375:VAL:N	2.27	0.59
1:0H:52:ASP:H	1:0H:58:GLN:NE2	1.90	0.59
1:0B:227:ARG:NH1	1:0B:264:ASP:OD2	2.35	0.59
1:0C:17:ARG:O	1:0C:21:VAL:HG23	2.02	0.59
1:0C:196:LYS:HB3	1:0C:235:GLN:HG3	1.84	0.59
1:0F:263:PRO:HG3	39:4Q:147:GLN:CD	2.28	0.59
1:0M:33:ASN:O	1:0M:37:LEU:HG	2.01	0.59
1:0M:224:LYS:HG3	1:0M:227:ARG:HH21	1.67	0.59
1:0M:329:LEU:HA	1:0M:370:HIS:CE1	2.36	0.59
1:0S:70:ASN:HA	1:0S:113:HIS:NE2	2.16	0.59
1:0U:358:TRP:CD1	1:0U:362:GLN:HE22	2.20	0.59
1:0Y:18:VAL:HG12	1:0Y:57:ILE:HG12	1.84	0.59
2:1G:367:VAL:HG21	2:1G:386:LEU:CD2	2.32	0.59
2:1G:391:LYS:HB3	2:1G:425:ALA:O	2.01	0.59
3:1I:1058:ALA:O	3:1I:1062:THR:HG23	2.01	0.59
7:1O:227:VAL:HA	7:1O:230:LEU:HD12	1.84	0.59
10:1R:441:HIS:CD2	10:1R:443:TYR:O	2.54	0.59
13:1d:273:ALA:O	13:1d:375:VAL:N	2.27	0.59
17:2J:9:UNK:HA	13:Db:82:THR:HG21	1.83	0.59
12:2g:261:PRO:O	12:2g:262:ARG:HG2	2.02	0.59
31:3I:239:GLU:OE2	32:3K:248:ARG:HB2	2.02	0.59
31:3I:289:ASN:ND2	13:9h:393:HIS:HE1	1.99	0.59
34:3P:39:GLU:O	34:3P:43:ARG:HG3	2.02	0.59
34:3Q:362:PRO:HG3	34:3Q:371:ALA:HB2	1.84	0.59
34:3T:107:TYR:O	34:3T:111:ILE:HG12	2.02	0.59
36:4D:42:ILE:HB	36:4D:108:LYS:HZ3	1.68	0.59
36:4D:285:THR:HG23	36:4D:287:MET:H	1.67	0.59
37:4E:583:GLU:CB	43:5L:35:LYS:C	2.75	0.59
37:4E:586:PHE:CE2	43:5L:15:LEU:HG	2.34	0.59
37:4F:686:HIS:HE1	38:4K:54:GLU:OE2	1.84	0.59
37:4F:974:VAL:CG1	37:4F:975:VAL:H	2.13	0.59
37:4F:1082:LEU:CB	37:4F:1082:LEU:HD22	2.27	0.59
37:4F:1333:VAL:HA	38:4N:27:ALA:HA	0.60	0.59
37:4F:1335:MET:HB2	37:4F:1338:PHE:N	2.12	0.59
37:4G:431:ALA:HB1	38:4L:83:TYR:HE2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4J:33:LYS:HE3	38:4J:33:LYS:HA	1.84	0.59
12:4e:73:MET:HE3	12:4e:92:PHE:HB3	1.83	0.59
13:4f:241:SER:OG	13:4f:250:VAL:O	2.20	0.59
13:4h:241:SER:OG	13:4h:250:VAL:O	2.20	0.59
42:5H:143:VAL:HG21	43:5L:144:TYR:O	2.02	0.59
42:5H:158:MET:HG2	43:5L:158:HIS:CE1	2.37	0.59
43:5I:55:TYR:HB3	43:5I:76:PHE:CE2	2.35	0.59
12:5a:19:LYS:O	12:5a:23:VAL:HG13	2.03	0.59
47:6A:843:ARG:NH2	47:6A:870:LEU:O	2.34	0.59
47:6B:381:GLN:HA	3:6D:848:ARG:CD	2.32	0.59
47:6B:406:ARG:NH1	3:6D:1002:PRO:C	2.60	0.59
3:6D:168:GLN:HB3	3:6D:228:ASN:HD21	1.68	0.59
48:6E:303:LEU:CD1	48:6E:306:VAL:HB	2.32	0.59
48:6F:303:LEU:HD13	48:6F:306:VAL:HB	1.84	0.59
48:6F:874:LEU:HD11	48:6F:951:VAL:HG22	1.84	0.59
49:6H:47:ILE:HG12	49:6H:70:THR:HG22	1.84	0.59
49:6H:358:GLN:HB2	49:6H:473:ARG:HE	1.67	0.59
49:6I:367:THR:HG21	49:6I:387:LYS:H	1.66	0.59
49:6J:391:ILE:HG21	49:6J:397:SER:HB3	1.82	0.59
51:6M:1351:GLU:HG2	51:6M:1552:GLU:HG2	1.83	0.59
12:7a:73:MET:HE3	12:7a:92:PHE:HB3	1.82	0.59
13:Ab:241:SER:OG	13:Ab:250:VAL:O	2.20	0.59
13:Bb:62:VAL:HG21	13:Cb:283:HIS:O	2.02	0.59
12:Be:222:PHE:HE2	13:Bf:248:LEU:HG	1.66	0.59
12:Be:276:ARG:HA	12:Be:279:GLN:NE2	2.18	0.59
12:Ca:7:ILE:HB	12:Ca:135:VAL:HG12	1.83	0.59
12:Ce:135:VAL:HG11	12:Ce:152:ILE:HD11	1.82	0.59
12:De:3:GLU:HB2	12:De:127:CYS:SG	2.41	0.59
1:0I:72:SER:OG	1:0I:75:LEU:HG	2.01	0.59
44:5P:113:MET:HG3	44:5P:128:MET:HE1	1.84	0.59
1:0A:174:LEU:O	1:0A:178:GLU:HG2	2.03	0.59
1:0D:122:ILE:HG12	1:0D:127:LEU:HD21	1.83	0.59
1:0D:240:SER:OG	1:0D:243:LEU:HG	2.02	0.59
1:0D:248:VAL:HA	1:0D:253:PHE:HE2	1.66	0.59
1:0D:358:TRP:CD1	1:0D:362:GLN:HE22	2.20	0.59
1:0E:371:ALA:HB1	1:0E:407:VAL:HA	1.82	0.59
1:0G:380:LEU:O	1:0G:384:VAL:HG23	2.01	0.59
1:0G:380:LEU:HD21	1:0G:407:VAL:HG21	1.85	0.59
1:0P:214:LEU:HD22	1:0P:229:VAL:HG12	1.82	0.59
1:0Q:92:LEU:HG	1:0Q:132:THR:HG21	1.84	0.59
1:0R:180:GLU:HB3	1:0R:183:LEU:HG	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0V:214:LEU:HD22	1:0V:229:VAL:HG12	1.84	0.59
1:0Y:322:ALA:HB2	1:0Y:362:GLN:HG2	1.84	0.59
1:0Y:358:TRP:CD1	1:0Y:362:GLN:HE22	2.21	0.59
1:0Z:269:LYS:O	1:0Z:273:THR:HG23	2.02	0.59
1:1A:311:LEU:HD21	1:1A:352:LEU:HA	1.83	0.59
1:1A:358:TRP:CD1	1:1A:362:GLN:HE22	2.20	0.59
1:1B:91:SER:HA	1:1B:99:TYR:CE2	2.37	0.59
2:1D:82:LEU:HD11	2:1D:118:PRO:CB	2.32	0.59
3:1H:640:GLY:O	3:1H:644:ARG:HG2	2.02	0.59
3:1I:640:GLY:O	3:1I:644:ARG:HG2	2.02	0.59
3:1I:707:VAL:O	3:1I:711:VAL:HG23	2.01	0.59
4:1J:86:ILE:HD11	4:1J:178:ARG:HD3	1.83	0.59
4:1K:86:ILE:HD11	4:1K:178:ARG:HD3	1.83	0.59
4:1K:129:PRO:HD3	3:6D:632:ASP:OD2	2.02	0.59
12:1a:99:ASN:HA	12:1a:142:GLY:H	1.67	0.59
13:1b:2:ARG:HH22	13:1b:48:ALA:HA	1.66	0.59
24:2T:140:PRO:HG2	13:Ch:117:LEU:HD21	1.83	0.59
24:2T:156:LYS:HG2	24:2T:160:ARG:HD2	1.84	0.59
24:2V:130:ALA:CB	12:Dg:335:ASN:HB3	2.30	0.59
34:3M:75:GLN:NE2	34:3M:419:LEU:HD22	2.16	0.59
34:3M:77:GLN:HB3	34:3M:317:ARG:HH21	1.66	0.59
34:3S:280:TRP:HA	34:3S:283:THR:HG22	1.84	0.59
34:3T:37:ASN:O	34:3T:41:THR:HG23	2.02	0.59
34:3U:68:LEU:O	34:3U:71:LEU:N	2.35	0.59
34:3W:498:LEU:CD1	34:4B:105:GLN:HG3	2.32	0.59
34:4A:302:LEU:O	34:4A:306:VAL:HG13	2.02	0.59
34:4B:472:ASP:O	34:4B:475:MET:HG3	2.01	0.59
37:4G:1334:GLU:C	38:4L:28:VAL:HG22	2.27	0.59
37:4H:430:ASP:HB3	37:4H:433:LYS:HG2	1.83	0.59
37:4H:1086:THR:OG1	37:4H:1090:GLN:HB2	2.01	0.59
37:4H:1091:VAL:CB	38:4M:33:LYS:C	2.75	0.59
37:4H:1323:ILE:CG2	38:4M:26:GLU:H	2.15	0.59
38:4K:33:LYS:HA	38:4K:33:LYS:HE3	1.85	0.59
38:4N:61:LEU:HB2	38:4N:80:LEU:HD11	1.83	0.59
40:4U:404:ASP:OD2	40:4U:406:SER:HB3	2.03	0.59
13:4b:207:GLU:OE1	13:4b:304:LYS:NZ	2.30	0.59
13:4b:269:LEU:N	13:4b:379:SER:O	2.33	0.59
42:5H:91:TYR:CZ	43:5L:42:TYR:CB	2.72	0.59
42:5H:136:HIS:CE1	43:5L:142:TYR:HE1	2.20	0.59
47:6A:95:TYR:O	47:6A:99:GLN:HG2	2.02	0.59
47:6A:1338:LEU:HD11	47:6A:1376:LEU:HD22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6G:358:GLN:HB2	49:6G:473:ARG:HE	1.67	0.59
49:6H:229:GLU:HB2	49:6H:278:TYR:OH	2.03	0.59
49:6J:367:THR:HG21	49:6J:387:LYS:H	1.66	0.59
51:6M:1399:VAL:O	51:6M:1402:ARG:HG2	2.02	0.59
51:6M:1406:ARG:NH2	51:6M:1409:ASP:OD1	2.35	0.59
12:6a:64:ILE:HG12	12:6a:119:VAL:HG23	1.84	0.59
13:7b:187:SER:O	13:7b:191:THR:HG22	2.01	0.59
12:8c:415:MET:O	12:8c:419:VAL:HG23	2.02	0.59
12:9g:55:THR:HG23	12:Ag:282:ARG:O	2.02	0.59
12:Ac:267:MET:HE1	12:Ac:305:PRO:HG3	1.83	0.59
13:Ad:96:LYS:HA	12:Ae:1:MET:CE	2.33	0.59
13:Ad:403:ALA:HB2	12:Ae:344:TRP:CZ3	2.37	0.59
12:Ag:27:GLU:HA	12:Ag:359:LYS:HD3	1.83	0.59
12:Bc:313:ALA:O	12:Bc:349:VAL:HA	2.02	0.59
12:Ca:258:ILE:HD13	12:Ca:264:HIS:HB3	1.84	0.59
13:Cb:12:ALA:HB3	13:Cb:140:ALA:HB2	1.84	0.59
13:Db:241:SER:OG	13:Db:250:VAL:O	2.20	0.59
1:0H:193:ASP:HA	1:0H:196:LYS:HE3	1.83	0.59
1:0H:256:ILE:HG23	1:0H:271:SER:HB2	1.84	0.59
1:0J:262:PHE:CE2	1:0J:264:ASP:HB3	2.37	0.59
1:0I:164:VAL:HG21	1:0I:201:LEU:HD22	1.83	0.59
1:0I:363:ILE:HG22	1:0I:370:HIS:HB3	1.84	0.59
1:0A:184:LYS:HB3	1:0A:217:LEU:HD21	1.85	0.59
1:0A:291:GLY:HA2	47:6A:323:LEU:HD22	1.84	0.59
1:0G:225:LEU:O	1:0G:229:VAL:HG22	2.01	0.59
1:0N:80:VAL:HG22	1:0N:85:LEU:HD22	1.84	0.59
1:0P:320:ILE:HG22	1:0P:327:LEU:HB3	1.83	0.59
1:0Q:308:ASN:HA	1:0Q:311:LEU:HD12	1.84	0.59
1:0S:380:LEU:O	1:0S:384:VAL:HG23	2.02	0.59
1:0T:262:PHE:HE2	1:0T:264:ASP:HB2	1.66	0.59
1:0U:63:LEU:HD22	5:1M:594:PRO:HG3	1.84	0.59
1:0V:278:VAL:HG13	1:0V:285:LEU:HD23	1.85	0.59
1:0X:184:LYS:HB3	1:0X:217:LEU:HD21	1.85	0.59
1:0X:322:ALA:HB2	1:0X:362:GLN:HG2	1.83	0.59
1:0Z:134:LEU:HD11	1:0Z:149:LEU:HD11	1.83	0.59
1:1B:340:LEU:HD21	1:1B:360:LEU:HD11	1.83	0.59
2:1D:82:LEU:CD1	2:1D:118:PRO:HB2	2.32	0.59
2:1D:175:SER:OG	2:1D:179:HIS:NE2	2.35	0.59
2:1E:147:MET:HG2	2:1E:172:LEU:HD13	1.84	0.59
2:1F:224:ALA:O	2:1F:228:ILE:HG13	2.02	0.59
3:1H:280:SER:HA	3:1H:495:PRO:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1O:288:MET:HE2	7:1O:329:LEU:HA	1.83	0.59
13:1d:283:HIS:HA	12:Da:86:ARG:NH2	2.16	0.59
13:1h:12:ALA:HB3	13:1h:140:ALA:HB2	1.84	0.59
17:2J:84:UNK:O	13:Ab:229:ARG:NH2	2.34	0.59
24:2T:141:ARG:HB2	13:Dh:215:ARG:HD3	1.84	0.59
12:2a:171:PRO:HG3	12:2a:181:GLU:HG2	1.84	0.59
30:3G:602:ARG:NH2	13:7f:416:GLY:HA3	2.17	0.59
30:3G:627:LEU:HD21	12:7e:406:MET:HA	1.84	0.59
31:3I:102:VAL:HG13	31:3I:106:LYS:HE3	1.85	0.59
34:3M:290:ALA:O	34:3M:293:GLN:HG3	2.02	0.59
34:3W:491:GLU:OE2	34:4B:112:LYS:NZ	2.29	0.59
34:3Z:49:PHE:CE2	34:3Z:53:ILE:HD11	2.37	0.59
12:3a:172:SER:HB3	12:3a:205:GLU:CD	2.27	0.59
37:4E:570:LEU:O	37:4E:574:LEU:N	2.33	0.59
37:4E:1162:VAL:HB	37:4E:1299:ARG:NH1	2.17	0.59
37:4F:430:ASP:O	37:4F:433:LYS:HG2	2.02	0.59
37:4F:1324:THR:CA	38:4N:26:GLU:CG	2.66	0.59
37:4G:533:MET:HA	37:4G:536:LEU:HD12	1.83	0.59
37:4G:1071:THR:HG21	37:4G:1458:PRO:HG3	1.83	0.59
38:4I:61:LEU:HB2	38:4I:80:LEU:HD11	1.83	0.59
39:4Q:176:PRO:HB3	39:4Q:182:PRO:HD3	1.84	0.59
13:4d:241:SER:OG	13:4d:250:VAL:O	2.20	0.59
41:5A:123:LYS:HA	41:5A:137:GLN:HA	1.84	0.59
42:5H:136:HIS:O	42:5H:137:TYR:C	2.41	0.59
42:5H:139:LEU:HB3	43:5L:145:SER:CA	2.33	0.59
42:5H:151:THR:HB	42:5H:153:TYR:CE1	2.38	0.59
43:5I:34:ALA:HB1	43:5I:42:TYR:CE2	2.38	0.59
43:5L:55:TYR:HB3	43:5L:76:PHE:CE2	2.35	0.59
44:5V:20:PHE:CZ	44:5V:29:GLY:O	2.55	0.59
13:5d:2:ARG:HH22	13:5d:48:ALA:HA	1.66	0.59
47:6A:217:SER:O	47:6A:221:GLN:HG3	2.03	0.59
47:6B:217:SER:O	47:6B:221:GLN:HG3	2.03	0.59
48:6E:303:LEU:HD12	48:6E:303:LEU:O	2.03	0.59
49:6G:95:ASP:OD2	49:6G:107:THR:OG1	2.20	0.59
49:6G:229:GLU:HB2	49:6G:278:TYR:OH	2.03	0.59
49:6I:69:TYR:CE1	49:6I:74:MET:HG2	2.37	0.59
49:6J:386:LEU:O	49:6J:414:SER:HB3	2.03	0.59
51:6N:1406:ARG:NH2	51:6N:1409:ASP:OD1	2.35	0.59
13:7b:96:LYS:HE3	12:7c:1:MET:CE	2.32	0.59
13:8b:187:SER:O	13:8b:191:THR:HG22	2.01	0.59
12:9g:174:LYS:HZ1	13:9h:333:ALA:HA	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ac:55:THR:HG21	12:Bc:284:LEU:HD13	1.82	0.59
13:Ad:241:SER:OG	13:Ad:250:VAL:O	2.20	0.59
13:Ah:269:LEU:N	13:Ah:379:SER:O	2.33	0.59
13:Db:12:ALA:HB3	13:Db:140:ALA:HB2	1.84	0.59
1:0W:380:LEU:O	1:0W:384:VAL:HG23	2.01	0.59
1:0I:160:ALA:O	1:0I:164:VAL:HG23	2.02	0.59
1:0A:134:LEU:HG	1:0A:145:SER:OG	2.01	0.59
1:0E:343:ALA:O	1:0E:347:GLU:HG3	2.01	0.59
1:0F:128:ASP:O	1:0F:132:THR:HG23	2.02	0.59
1:0F:262:PHE:HE2	1:0F:264:ASP:HB2	1.66	0.59
1:0O:33:ASN:O	1:0O:37:LEU:HG	2.02	0.59
1:0O:358:TRP:CD1	1:0O:362:GLN:HE22	2.20	0.59
1:0Q:5:ALA:HA	1:0Q:8:GLN:OE1	2.01	0.59
1:0R:174:LEU:O	1:0R:178:GLU:HG2	2.02	0.59
1:0U:248:VAL:HA	1:0U:253:PHE:HE2	1.67	0.59
1:0Y:227:ARG:HD3	1:0Y:266:PHE:HB2	1.84	0.59
1:1A:373:ALA:O	1:1A:377:THR:HG23	2.03	0.59
2:1E:175:SER:OG	2:1E:179:HIS:NE2	2.34	0.59
2:1G:224:ALA:O	2:1G:228:ILE:HG13	2.02	0.59
10:1S:445:TRP:CE3	12:Be:231:ALA:HB2	2.38	0.59
13:1b:12:ALA:HB3	13:1b:140:ALA:HB2	1.84	0.59
13:1h:273:ALA:O	13:1h:375:VAL:N	2.27	0.59
14:2F:122:ALA:HB3	13:Bb:322:ASP:OD1	2.01	0.59
24:2U:128:VAL:CG2	12:De:336:LYS:HG3	2.31	0.59
24:2U:129:SER:HB2	24:2U:150:PHE:O	2.01	0.59
13:2d:273:ALA:O	13:2d:375:VAL:N	2.27	0.59
30:3F:270:THR:O	30:3F:274:VAL:HG23	2.01	0.59
30:3F:456:ARG:NH1	12:7c:404:ASP:OD1	2.35	0.59
30:3F:594:ALA:HA	30:3F:597:GLN:OE1	2.02	0.59
31:3I:331:GLN:HE22	31:3I:335:LEU:HD11	1.67	0.59
34:3M:500:TYR:O	34:3M:504:LEU:HG	2.02	0.59
34:3O:43:ARG:HB3	34:3T:80:LEU:HD21	1.85	0.59
34:3R:255:HIS:HA	34:3R:474:TRP:NE1	2.16	0.59
34:3U:39:GLU:O	34:3U:43:ARG:HG3	2.02	0.59
34:3V:334:LEU:O	34:3V:338:LEU:HD23	2.01	0.59
34:3X:49:PHE:CE2	34:3X:53:ILE:HD11	2.37	0.59
12:3g:68:LEU:HD23	12:3g:143:THR:HG22	1.85	0.59
35:4C:396:THR:CG2	35:4C:421:MET:HG2	2.32	0.59
37:4E:791:ALA:HB2	37:4E:1623:ARG:HE	1.66	0.59
37:4E:1378:LEU:HD13	37:4E:1399:LEU:HD11	1.83	0.59
37:4E:1524:LEU:HD22	37:4E:1616:VAL:HG21	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1324:THR:N	38:4N:26:GLU:CD	2.59	0.59
37:4G:1093:VAL:CG2	38:4L:35:ALA:HB3	2.33	0.59
37:4G:1195:ARG:HD2	37:4G:1279:LEU:HD21	1.84	0.59
38:4L:33:LYS:HE3	38:4L:33:LYS:HA	1.84	0.59
38:4L:60:VAL:CG1	38:4L:84:LEU:HA	2.33	0.59
38:4M:60:VAL:CG1	38:4M:84:LEU:HA	2.33	0.59
38:4N:33:LYS:HE3	38:4N:33:LYS:HA	1.84	0.59
38:4N:58:VAL:O	38:4N:62:MET:HB2	2.01	0.59
39:4R:206:MET:SD	39:4R:210:LEU:HD12	2.43	0.59
42:5H:135:ARG:NH1	43:5L:56:VAL:CG2	2.65	0.59
12:5a:171:PRO:HG3	12:5a:181:GLU:HG2	1.85	0.59
47:6A:789:LEU:HD11	47:6A:817:LEU:HD11	1.85	0.59
47:6B:95:TYR:O	47:6B:99:GLN:HG2	2.02	0.59
47:6B:789:LEU:HD11	47:6B:817:LEU:HD11	1.85	0.59
48:6F:154:ASP:HB2	49:6H:225:ARG:HH12	1.67	0.59
48:6F:303:LEU:HD12	48:6F:303:LEU:O	2.03	0.59
49:6H:44:PRO:HG2	49:6J:30:GLU:CD	2.28	0.59
49:6H:386:LEU:O	49:6H:414:SER:HB3	2.03	0.59
49:6I:229:GLU:HB2	49:6I:278:TYR:OH	2.03	0.59
51:6M:1906:ASP:OD1	51:6M:1907:ALA:N	2.36	0.59
51:6N:1906:ASP:OD1	51:6N:1907:ALA:N	2.35	0.59
13:6d:12:ALA:HB3	13:6d:140:ALA:HB2	1.84	0.59
13:6h:12:ALA:HB3	13:6h:140:ALA:HB2	1.84	0.59
13:7d:241:SER:OG	13:7d:250:VAL:O	2.20	0.59
13:7f:222:PRO:HD2	12:7g:324:LYS:HG2	1.84	0.59
12:8e:278:SER:C	12:8e:281:TYR:HB2	2.28	0.59
13:8h:12:ALA:HB3	13:8h:140:ALA:HB2	1.84	0.59
13:9f:241:SER:OG	13:9f:250:VAL:O	2.20	0.59
12:Ac:83:GLN:O	12:Bc:281:TYR:OH	2.15	0.59
13:Af:241:SER:OG	13:Af:250:VAL:O	2.20	0.59
13:Ch:62:VAL:HG21	13:Dh:283:HIS:O	2.02	0.59
12:De:396:HIS:CG	13:Df:263:PRO:HG3	2.37	0.59
1:0J:285:LEU:O	1:0J:289:VAL:HG23	2.03	0.59
1:0A:90:TYR:CE2	47:6B:110:LYS:HG2	2.38	0.59
1:0B:290:VAL:HG22	1:0B:295:VAL:HG11	1.84	0.59
1:0C:34:ILE:HA	1:0C:37:LEU:HD12	1.84	0.59
1:0G:322:ALA:HB2	1:0G:362:GLN:HG2	1.83	0.59
1:0Q:133:CYS:HB2	1:0Q:145:SER:HB3	1.84	0.59
1:0S:358:TRP:CD1	1:0S:362:GLN:HE22	2.21	0.59
1:0Y:227:ARG:NH1	1:0Y:264:ASP:OD2	2.35	0.59
1:1C:206:VAL:HG21	1:1C:243:LEU:HD22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1F:7:LYS:O	2:1F:11:VAL:HG23	2.03	0.59
2:1F:78:GLN:HE21	2:1F:119:VAL:HG23	1.67	0.59
3:1H:951:TYR:HD2	47:6A:388:LEU:HD11	1.68	0.59
4:1J:179:GLU:OE1	4:1J:181:PHE:HB3	2.02	0.59
4:1K:179:GLU:OE1	4:1K:181:PHE:HB3	2.02	0.59
10:1R:443:TYR:HD1	12:Ba:227:HIS:NE2	2.00	0.59
10:1R:444:PRO:HD2	12:Ba:227:HIS:CD2	2.37	0.59
13:1b:241:SER:OG	13:1b:250:VAL:O	2.20	0.59
12:1e:86:ARG:HG3	12:2e:281:TYR:HB3	1.84	0.59
12:1g:72:THR:O	12:1g:76:VAL:HG23	2.02	0.59
13:1h:269:LEU:N	13:1h:379:SER:O	2.33	0.59
13:2d:2:ARG:HH22	13:2d:48:ALA:HA	1.66	0.59
13:2h:2:ARG:HH22	13:2h:48:ALA:HA	1.66	0.59
29:3E:1161:ARG:NH1	12:5e:416:ASN:HD22	2.00	0.59
29:3E:1195:ARG:HD3	13:5d:155:GLU:OE2	2.03	0.59
34:3P:68:LEU:O	34:3P:71:LEU:N	2.35	0.59
34:3P:407:MET:O	34:3P:411:MET:HG2	2.02	0.59
34:3U:312:TRP:CH2	34:3U:415:TYR:HA	2.37	0.59
34:4A:121:LEU:HD12	34:4A:353:LEU:HD11	1.82	0.59
35:4C:867:SER:HB3	35:4C:885:ARG:HD2	1.84	0.59
37:4E:586:PHE:HE2	43:5L:73:SER:HB3	1.68	0.59
37:4E:1322:ARG:HH21	37:4E:1712:LEU:HD13	1.68	0.59
37:4G:430:ASP:OD2	37:4G:431:ALA:N	2.36	0.59
37:4G:525:GLU:HG2	37:4G:1078:PRO:HB2	1.84	0.59
37:4G:1136:ARG:HB2	38:4L:33:LYS:CE	2.33	0.59
37:4G:1738:ALA:HB2	44:5S:121:SER:OG	2.02	0.59
37:4H:1091:VAL:HG23	38:4M:30:ALA:O	2.03	0.59
37:4H:1195:ARG:HD2	37:4H:1279:LEU:HD21	1.85	0.59
39:4Q:206:MET:SD	39:4Q:210:LEU:HD12	2.43	0.59
42:5H:133:LEU:N	42:5H:134:LEU:O	2.36	0.59
42:5H:139:LEU:HD22	43:5L:142:TYR:O	2.03	0.59
13:5h:273:ALA:O	13:5h:375:VAL:N	2.27	0.59
47:6A:3:GLU:O	47:6A:7:LYS:HG2	2.02	0.59
47:6B:182:GLN:OE1	13:Ch:308:ARG:O	2.19	0.59
47:6B:1175:TYR:CZ	47:6B:1179:LEU:HD11	2.37	0.59
48:6E:303:LEU:HD13	48:6E:306:VAL:HB	1.85	0.59
49:6G:386:LEU:O	49:6G:414:SER:HB3	2.03	0.59
49:6I:386:LEU:O	49:6I:414:SER:HB3	2.03	0.59
50:6L:50:ARG:HH22	50:6L:124:MET:HB3	1.66	0.59
12:6a:397:TRP:CD2	13:6b:257:THR:HG22	2.37	0.59
13:6b:12:ALA:HB3	13:6b:140:ALA:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7b:12:ALA:HB3	13:7b:140:ALA:HB2	1.84	0.59
12:7c:415:MET:O	12:7c:419:VAL:HG23	2.03	0.59
12:7e:73:MET:HA	12:7e:76:VAL:HG12	1.84	0.59
13:7f:241:SER:OG	13:7f:250:VAL:O	2.20	0.59
13:7h:12:ALA:HB3	13:7h:140:ALA:HB2	1.84	0.59
13:9d:12:ALA:HB3	13:9d:140:ALA:HB2	1.84	0.59
13:9f:12:ALA:HB3	13:9f:140:ALA:HB2	1.84	0.59
13:Ad:269:LEU:N	13:Ad:379:SER:O	2.33	0.59
12:Ba:99:ASN:HB2	13:Bb:258:ASN:HD21	1.68	0.59
12:Ba:247:ASN:OD1	12:Ba:248:ALA:N	2.35	0.59
12:Bg:177:ASP:OD2	53:Bg:501:GDP:O2'	2.10	0.59
13:Cb:221:ARG:HG2	12:Cc:325:GLU:CD	2.27	0.59
1:0W:380:LEU:HD21	1:0W:407:VAL:HG21	1.85	0.59
1:0A:42:ALA:HB2	1:0B:10:PHE:HZ	1.67	0.59
1:0A:65:LEU:HD22	1:0A:84:ILE:HG21	1.83	0.59
1:0B:85:LEU:HA	1:0B:88:LEU:HD12	1.85	0.59
1:0O:89:VAL:HG11	1:0O:125:GLY:HA3	1.83	0.59
1:0O:286:ALA:HB1	1:0O:320:ILE:HG22	1.84	0.59
1:0S:164:VAL:HG21	1:0S:201:LEU:HD22	1.83	0.59
1:1C:138:ASP:O	1:1C:141:VAL:HG22	2.03	0.59
5:1M:518:LEU:HG	13:1f:192:HIS:CD2	2.38	0.59
6:1N:606:ALA:HB1	6:1N:641:TRP:CH2	2.37	0.59
6:1N:2167:ARG:HB3	6:1N:2243:VAL:HG11	1.84	0.59
10:1S:445:TRP:CD1	10:1S:446:CYS:HG	2.20	0.59
12:1e:222:PHE:CD2	13:1f:247:ALA:HB1	2.38	0.59
12:1g:55:THR:HG23	12:2g:282:ARG:O	2.02	0.59
24:2U:168:ILE:HD11	13:Dd:308:ARG:HB3	1.83	0.59
12:2a:388:MET:HE3	13:2b:347:CYS:HA	1.85	0.59
13:2d:222:PRO:HD2	12:2e:324:LYS:HG2	1.85	0.59
30:3F:337:PRO:CB	13:7f:402:ARG:NH2	2.66	0.59
31:3I:286:LEU:O	31:3I:290:THR:HG23	2.03	0.59
34:3M:81:GLU:HA	34:3M:84:GLU:CD	2.27	0.59
34:3M:280:TRP:CZ3	34:3M:449:GLU:HA	2.38	0.59
34:3P:312:TRP:CH2	34:3P:415:TYR:HA	2.37	0.59
34:3R:345:ALA:O	34:3R:349:LEU:HG	2.02	0.59
34:3S:66:LYS:HG3	34:3U:55:GLN:OE1	2.03	0.59
34:3T:49:PHE:CE2	34:3T:53:ILE:HD11	2.38	0.59
34:3U:407:MET:O	34:3U:411:MET:HG2	2.02	0.59
12:3a:86:ARG:HH12	12:4a:280:GLN:HB2	1.66	0.59
12:3a:171:PRO:HG3	12:3a:181:GLU:HG2	1.83	0.59
13:3d:273:ALA:O	13:3d:375:VAL:N	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4B:68:LEU:O	34:4B:72:PRO:HD2	2.03	0.59
35:4C:504:VAL:HG11	35:4C:548:THR:HG22	1.85	0.59
37:4F:970:SER:O	37:4F:1074:GLN:CB	2.51	0.59
37:4F:1357:THR:O	37:4F:1369:GLY:HA2	2.03	0.59
37:4G:1093:VAL:HG12	38:4L:33:LYS:CE	2.33	0.59
37:4H:529:VAL:HG11	38:4J:66:GLN:HG3	1.84	0.59
39:4S:176:PRO:HB3	39:4S:182:PRO:HD3	1.84	0.59
12:4c:72:THR:O	12:4c:76:VAL:HG23	2.02	0.59
13:4d:269:LEU:N	13:4d:379:SER:O	2.33	0.59
41:5A:114:GLU:CB	41:5A:122:GLY:HA3	2.33	0.59
42:5H:94:CYS:C	43:5L:45:ASN:HA	2.27	0.59
43:5I:39:LEU:HD22	43:5I:48:THR:HG22	1.83	0.59
43:5J:39:LEU:HD22	43:5J:48:THR:HG22	1.83	0.59
13:5b:179:THR:HG22	12:5c:327:ASP:OD1	2.01	0.59
13:5f:2:ARG:HH22	13:5f:48:ALA:HA	1.66	0.59
47:6A:278:GLU:O	47:6A:282:LYS:HG2	2.03	0.59
47:6A:1626:ALA:O	47:6A:1630:VAL:HG23	2.01	0.59
47:6B:406:ARG:NH2	3:6D:995:PHE:CD1	2.70	0.59
49:6G:47:ILE:HG12	49:6G:70:THR:HG22	1.83	0.59
49:6I:278:TYR:CB	49:6I:281:LYS:HE2	2.33	0.59
49:6J:69:TYR:CE1	49:6J:74:MET:HG2	2.37	0.59
49:6J:229:GLU:HB2	49:6J:278:TYR:OH	2.03	0.59
49:6J:278:TYR:CB	49:6J:281:LYS:HE2	2.33	0.59
50:6K:187:TYR:HA	50:6K:190:ASP:OD2	2.02	0.59
13:6b:273:ALA:O	13:6b:375:VAL:N	2.27	0.59
12:6c:313:ALA:O	12:6c:349:VAL:HA	2.02	0.59
13:6f:12:ALA:HB3	13:6f:140:ALA:HB2	1.84	0.59
12:7c:60:VAL:HG11	12:7c:86:ARG:HH22	1.68	0.59
13:7d:406:HIS:CG	12:7e:261:PRO:HD3	2.38	0.59
12:9e:171:PRO:HG3	12:9e:181:GLU:HG2	1.85	0.59
13:9h:273:ALA:O	13:9h:375:VAL:N	2.27	0.59
12:Ae:391:ARG:HG3	13:Af:346:TRP:HB3	1.84	0.59
12:Ba:98:GLY:O	13:Bb:257:THR:OG1	2.13	0.59
13:Bh:241:SER:OG	13:Bh:250:VAL:O	2.20	0.59
12:Da:170:VAL:HG11	12:Da:201:VAL:HG23	1.84	0.59
13:Df:399:TYR:O	13:Df:402:ARG:NH1	2.31	0.59
1:0J:169:VAL:O	1:0J:173:VAL:HG23	2.03	0.59
1:0W:244:ALA:O	1:0W:248:VAL:HG23	2.03	0.59
1:0I:133:CYS:HB2	1:0I:145:SER:HB3	1.83	0.59
1:0B:358:TRP:CD1	1:0B:362:GLN:HE22	2.21	0.59
1:0E:395:ASP:O	1:0E:399:LYS:HG2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0L:56:SER:HB2	12:8e:406:MET:HB2	1.84	0.59
1:0M:240:SER:HB2	1:0M:243:LEU:HG	1.85	0.59
1:0N:252:ILE:HA	1:0N:255:LYS:HE2	1.85	0.59
1:0R:282:THR:HG21	1:0R:285:LEU:HD13	1.85	0.59
1:0S:265:GLU:HA	1:0S:268:LYS:HE2	1.84	0.59
1:0T:80:VAL:HG22	1:0T:85:LEU:HD22	1.85	0.59
1:0V:134:LEU:HG	1:0V:145:SER:OG	2.03	0.59
1:0X:65:LEU:HD22	1:0X:84:ILE:HG21	1.83	0.59
1:0Y:329:LEU:HD23	1:0Y:370:HIS:NE2	2.17	0.59
1:1B:169:VAL:O	1:1B:173:VAL:HG23	2.03	0.59
2:1D:503:ALA:O	2:1D:507:HIS:N	2.34	0.59
3:1H:851:SER:HG	47:6A:384:GLU:CD	2.10	0.59
3:1H:1010:LEU:HB3	47:6A:402:MET:CE	2.32	0.59
6:1N:489:ASP:HB3	6:1N:498:ALA:HB2	1.84	0.59
6:1N:1362:ALA:O	6:1N:1366:VAL:HG23	2.02	0.59
6:1N:2662:TRP:HZ3	6:1N:2667:ARG:O	1.85	0.59
7:1O:170:VAL:HG11	7:1O:207:HIS:HE2	1.68	0.59
13:1f:12:ALA:HB3	13:1f:140:ALA:HB2	1.84	0.59
14:2F:85:PHE:CD2	12:Ca:217:LEU:HD11	2.38	0.59
12:2a:222:PHE:HE2	13:2b:248:LEU:HG	1.68	0.59
13:2b:2:ARG:HH22	13:2b:48:ALA:HA	1.66	0.59
30:3G:673:GLU:HG2	13:7d:437:ALA:HA	1.83	0.59
33:3L:123:LEU:HB2	33:3L:134:TYR:OH	2.03	0.59
34:3U:305:CYS:HA	34:3U:308:GLU:OE2	2.02	0.59
34:3V:245:ASN:HB3	34:3V:252:GLU:HG3	1.85	0.59
12:3e:249:ASP:H	12:3e:252:LYS:HD2	1.67	0.59
13:3f:177:VAL:HB	12:3g:331:LEU:HD22	1.85	0.59
35:4C:283:MET:HG3	35:4C:284:THR:H	1.67	0.59
36:4D:229:VAL:HG21	36:4D:255:PHE:HE2	1.66	0.59
37:4E:582:GLN:OE1	43:5L:52:LEU:HD13	2.02	0.59
37:4E:585:VAL:CA	43:5L:10:LEU:HD11	2.32	0.59
37:4F:1094:ALA:HB3	38:4N:36:VAL:CB	2.29	0.59
38:4I:33:LYS:HE3	38:4I:33:LYS:HA	1.85	0.59
39:4S:206:MET:SD	39:4S:210:LEU:HD12	2.43	0.59
40:4V:168:VAL:HG13	40:4V:286:VAL:HG11	1.84	0.59
13:4f:269:LEU:N	13:4f:379:SER:O	2.33	0.59
41:5A:164:GLY:C	43:5L:165:LEU:HD13	2.28	0.59
42:5E:118:SER:OG	42:5E:120:ASP:OD1	2.21	0.59
42:5E:143:VAL:HG21	43:5I:141:LEU:HD13	1.84	0.59
42:5H:139:LEU:HD13	43:5L:145:SER:HB2	1.85	0.59
47:6A:74:MET:O	47:6A:78:VAL:HB	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:1175:TYR:CZ	47:6A:1179:LEU:HD11	2.38	0.59
47:6B:3:GLU:O	47:6B:7:LYS:HG2	2.02	0.59
47:6B:74:MET:O	47:6B:78:VAL:HB	2.03	0.59
47:6B:770:PHE:CE2	47:6B:780:LEU:HD21	2.37	0.59
47:6B:1626:ALA:O	47:6B:1630:VAL:HG23	2.01	0.59
50:6K:50:ARG:HH22	50:6K:124:MET:HB3	1.66	0.59
13:6f:241:SER:OG	13:6f:250:VAL:O	2.20	0.59
12:7a:334:GLN:NE2	12:7a:349:VAL:HG12	2.18	0.59
13:7b:241:SER:OG	13:7b:250:VAL:O	2.20	0.59
13:8f:12:ALA:HB3	13:8f:140:ALA:HB2	1.84	0.59
12:9e:108:GLU:HA	12:9e:111:GLU:HG2	1.83	0.59
13:Ad:207:GLU:OE1	13:Ad:304:LYS:NZ	2.30	0.59
12:Bc:55:THR:HG23	12:Cc:282:ARG:O	2.02	0.59
12:Be:274:THR:HG21	12:Be:279:GLN:HA	1.84	0.59
13:Bf:4:VAL:HG12	13:Bf:133:GLN:HB2	1.85	0.59
13:Bh:12:ALA:HB3	13:Bh:140:ALA:HB2	1.84	0.59
1:0H:149:LEU:HD22	1:0H:163:VAL:HG21	1.84	0.59
1:0H:214:LEU:HD22	1:0H:229:VAL:HG12	1.82	0.59
1:0J:91:SER:HA	1:0J:99:TYR:CE2	2.37	0.59
1:0I:308:ASN:HA	1:0I:311:LEU:HD12	1.84	0.59
1:0K:206:VAL:HG21	1:0K:243:LEU:HD22	1.84	0.59
1:0E:17:ARG:NH1	1:0E:52:ASP:OD1	2.36	0.59
1:0L:128:ASP:HA	1:0L:131:VAL:HG22	1.84	0.59
1:0Q:373:ALA:O	1:0Q:377:THR:HG23	2.02	0.59
1:0T:193:ASP:HA	1:0T:196:LYS:HE3	1.85	0.59
1:0U:322:ALA:HB2	1:0U:362:GLN:HG2	1.84	0.59
1:1B:127:LEU:HD12	1:1B:162:GLN:HE22	1.68	0.59
1:1C:62:ALA:HA	1:1C:65:LEU:HD12	1.83	0.59
2:1G:310:LEU:O	2:1G:314:VAL:HG13	2.02	0.59
4:1J:79:LYS:HD3	47:6B:92:ARG:HH11	1.67	0.59
5:1L:556:TYR:CE2	12:1a:395:LEU:HB3	2.37	0.59
6:1N:1393:LEU:HB2	6:1N:1508:LEU:HD21	1.84	0.59
10:1R:335:LEU:HA	32:3J:71:VAL:O	2.01	0.59
10:1R:364:PHE:HA	12:Bc:337:ASN:ND2	2.18	0.59
13:1d:269:LEU:N	13:1d:379:SER:O	2.33	0.59
13:1d:283:HIS:O	12:Da:86:ARG:NE	2.35	0.59
22:2P:62:UNK:HA	12:6e:209:ASP:OD1	2.02	0.59
13:2f:2:ARG:HH22	13:2f:48:ALA:HA	1.66	0.59
28:3C:539:GLU:HG3	13:4h:339:ARG:NE	2.17	0.59
34:3P:357:LEU:HB3	34:3P:358:GLU:OE1	2.03	0.59
34:3T:266:HIS:O	34:3T:270:ILE:HG12	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3W:68:LEU:O	34:3W:72:PRO:HD2	2.03	0.59
35:4C:571:ASN:N	37:4E:1762:GLU:OE1	2.33	0.59
37:4E:575:SER:C	37:4E:577:LEU:CA	2.76	0.59
37:4E:835:PHE:CZ	37:4E:847:VAL:HG21	2.37	0.59
37:4E:1123:LEU:CD2	43:5L:133:ASP:HA	2.30	0.59
37:4E:1179:ALA:HB1	37:4E:1202:LYS:HB2	1.84	0.59
37:4F:974:VAL:HG12	37:4F:975:VAL:N	2.13	0.59
37:4F:1287:LEU:HD23	39:4S:27:GLU:HB2	1.85	0.59
37:4F:1334:GLU:N	38:4N:28:VAL:C	2.60	0.59
37:4G:1082:LEU:CG	38:4L:39:HIS:HB2	2.32	0.59
40:4T:619:LEU:HB3	40:4T:622:THR:HG22	1.84	0.59
12:4c:170:VAL:HG21	12:4c:201:VAL:HG13	1.84	0.59
13:4h:4:VAL:HG12	13:4h:133:GLN:HB2	1.85	0.59
42:5G:136:HIS:HB3	42:5G:139:LEU:HD12	1.85	0.59
43:5I:90:GLN:OE1	43:5I:147:THR:OG1	2.20	0.59
43:5L:90:GLN:OE1	43:5L:147:THR:OG1	2.20	0.59
12:5e:286:VAL:O	12:5e:290:THR:HG23	2.02	0.59
47:6A:770:PHE:CE2	47:6A:780:LEU:HD21	2.37	0.59
47:6B:278:GLU:O	47:6B:282:LYS:HG2	2.03	0.59
3:6D:19:LEU:HD11	3:6D:38:ALA:HB1	1.84	0.59
3:6D:1008:ALA:O	3:6D:1011:GLU:HB2	2.03	0.59
49:6H:95:ASP:OD2	49:6H:107:THR:OG1	2.20	0.59
50:6L:240:ASP:O	50:6L:244:VAL:HG23	2.03	0.59
13:6h:241:SER:OG	13:6h:250:VAL:O	2.20	0.59
13:7f:12:ALA:HB3	13:7f:140:ALA:HB2	1.84	0.59
13:7h:273:ALA:O	13:7h:375:VAL:N	2.27	0.59
13:8d:12:ALA:HB3	13:8d:140:ALA:HB2	1.84	0.59
13:8d:241:SER:OG	13:8d:250:VAL:O	2.20	0.59
12:8e:286:VAL:O	12:8e:290:THR:HG23	2.03	0.59
13:8h:273:ALA:O	13:8h:375:VAL:N	2.27	0.59
12:9a:99:ASN:HD22	13:9b:258:ASN:HD21	1.50	0.59
12:9g:117:LEU:HA	12:9g:120:VAL:HG12	1.85	0.59
13:9h:12:ALA:HB3	13:9h:140:ALA:HB2	1.84	0.59
13:Bb:4:VAL:HG12	13:Bb:133:GLN:HB2	1.85	0.59
12:Da:396:HIS:ND1	13:Db:263:PRO:HG3	2.17	0.59
13:Dd:399:TYR:O	13:Dd:402:ARG:NH1	2.31	0.59
12:Dg:60:VAL:HG21	12:Dg:86:ARG:CG	2.23	0.59
12:Dg:178:THR:OG1	12:Dg:181:GLU:HG3	2.02	0.59
1:0W:358:TRP:CD1	1:0W:362:GLN:HE22	2.20	0.59
1:0I:295:VAL:O	1:0I:299:VAL:HG23	2.03	0.59
1:0K:62:ALA:HA	1:0K:65:LEU:HD12	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0C:80:VAL:HG22	1:0C:85:LEU:HD22	1.85	0.59
1:0G:349:GLU:HB3	1:0G:351:HIS:CE1	2.38	0.59
1:0L:37:LEU:HD23	1:0L:68:LEU:HD21	1.85	0.59
1:0N:108:ARG:CD	1:0N:147:TRP:CD1	2.82	0.59
1:0P:149:LEU:HD22	1:0P:163:VAL:HG21	1.84	0.59
1:0R:279:ALA:O	1:0R:323:PHE:CE2	2.56	0.59
1:0S:168:ALA:H	1:0S:171:LEU:HD12	1.68	0.59
1:0S:248:VAL:HG21	1:0S:285:LEU:HD22	1.84	0.59
1:0Y:214:LEU:HD22	1:0Y:229:VAL:HG12	1.84	0.59
1:0Z:242:ASP:O	1:0Z:246:VAL:HG23	2.03	0.59
1:1C:367:THR:HB	1:1C:370:HIS:HD1	1.68	0.59
2:1F:11:VAL:O	13:Ah:423:GLU:OE2	2.21	0.59
6:1N:2064:LEU:HD21	6:1N:2120:LEU:HG	1.85	0.59
7:1O:3185:ARG:HD3	7:1O:3192:PHE:HZ	1.67	0.59
13:1b:273:ALA:O	13:1b:375:VAL:N	2.27	0.59
12:1g:112:LEU:O	12:1g:116:VAL:HG23	2.03	0.59
25:2W:137:UNK:HA	12:2c:421:GLU:OE2	2.03	0.59
30:3F:615:GLU:HA	30:3F:618:LYS:HE3	1.83	0.59
34:3P:38:HIS:O	34:3P:42:LEU:HD23	2.03	0.59
34:3Q:96:HIS:O	34:3Q:100:ILE:HG13	2.03	0.59
34:3S:280:TRP:CZ3	34:3S:449:GLU:HA	2.38	0.59
12:3c:341:PHE:HB3	12:3c:348:ASN:HD22	1.66	0.59
13:3d:399:TYR:CE2	39:4S:217:LEU:HB3	2.38	0.59
34:4B:352:LEU:HB3	34:4B:356:PHE:HE1	1.67	0.59
37:4E:770:ILE:HD13	37:4E:773:ARG:HE	1.68	0.59
37:4F:1334:GLU:CB	38:4N:28:VAL:HA	2.31	0.59
37:4G:691:MET:CB	37:4G:691:MET:HG3	2.19	0.59
37:4H:974:VAL:HG12	37:4H:975:VAL:HG13	1.84	0.59
37:4H:1101:LEU:HD13	38:4M:39:HIS:ND1	2.18	0.59
39:4S:44:ALA:HB1	44:5U:128:MET:HE1	1.84	0.59
13:4d:4:VAL:HG12	13:4d:133:GLN:HB2	1.85	0.59
13:4f:4:VAL:HG12	13:4f:133:GLN:HB2	1.85	0.59
41:5A:21:GLY:HA3	43:5L:188:GLU:C	2.27	0.59
43:5I:58:THR:HG22	43:5I:130:TRP:CH2	2.38	0.59
43:5L:23:PRO:HG2	43:5L:24:LYS:HD3	1.85	0.59
13:5h:251:ASP:HB2	13:5h:254:GLU:HG3	1.85	0.59
47:6B:230:HIS:ND1	13:Bf:402:ARG:CZ	2.66	0.59
47:6B:1000:ALA:O	47:6B:1001:THR:OG1	2.21	0.59
3:6D:605:VAL:HG13	3:6D:655:GLU:HG3	1.85	0.59
50:6K:240:ASP:O	50:6K:244:VAL:HG23	2.03	0.59
50:6L:187:TYR:HA	50:6L:190:ASP:OD2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6M:2248:LYS:HG3	51:6M:2252:TYR:HH	1.66	0.59
51:6N:2248:LYS:HG3	51:6N:2252:TYR:HH	1.65	0.59
12:6a:232:VAL:HG22	12:6a:270:PHE:HB2	1.85	0.59
13:6b:4:VAL:HG12	13:6b:133:GLN:HB2	1.85	0.59
12:6c:406:MET:HE3	12:6c:410:GLU:HB2	1.85	0.59
13:6d:4:VAL:HG12	13:6d:133:GLN:HB2	1.85	0.59
12:6e:52:ASN:O	12:6e:60:VAL:HG22	2.03	0.59
13:6h:4:VAL:HG12	13:6h:133:GLN:HB2	1.85	0.59
12:7g:275:SER:HG	12:7g:278:SER:HG	1.50	0.59
12:8a:73:MET:HA	12:8a:76:VAL:HG22	1.85	0.59
13:8b:12:ALA:HB3	13:8b:140:ALA:HB2	1.84	0.59
13:9b:4:VAL:HG12	13:9b:133:GLN:HB2	1.85	0.59
13:9b:241:SER:OG	13:9b:250:VAL:O	2.20	0.59
13:9b:401:LYS:NZ	12:9c:429:SER:O	2.28	0.59
13:9f:4:VAL:HG12	13:9f:133:GLN:HB2	1.85	0.59
12:9g:415:MET:O	12:9g:419:VAL:HG23	2.03	0.59
12:Ae:282:ARG:NH2	12:Ae:292:GLN:OE1	2.19	0.59
12:Be:35:THR:HG1	12:Be:37:HIS:HE2	1.45	0.59
12:Bg:330:MET:HB3	12:Bg:349:VAL:HG21	1.84	0.59
1:0K:176:VAL:HG11	1:0K:213:TYR:HB3	1.83	0.59
1:0E:262:PHE:CE2	1:0E:264:ASP:HB2	2.38	0.58
1:0L:34:ILE:HG23	1:0L:68:LEU:HD22	1.84	0.58
1:0N:129:SER:HA	31:3H:163:GLU:OE1	2.03	0.58
1:0P:108:ARG:CG	1:0P:148:THR:HG22	2.32	0.58
1:0Q:259:CYS:SG	1:0Q:267:VAL:HB	2.43	0.58
1:0U:45:LEU:O	1:0U:49:LEU:HD23	2.03	0.58
1:0V:127:LEU:HD22	1:0V:163:VAL:HG12	1.84	0.58
1:0Z:131:VAL:HA	1:0Z:134:LEU:HD12	1.84	0.58
1:0Z:173:VAL:HG22	1:0Z:210:ALA:HB2	1.85	0.58
1:1A:295:VAL:O	1:1A:299:VAL:HG23	2.02	0.58
4:1J:194:LEU:O	4:1J:217:VAL:HG13	2.02	0.58
12:1a:397:TRP:CZ2	13:1b:260:VAL:HB	2.36	0.58
12:1e:35:THR:HG23	12:1e:37:HIS:NE2	2.17	0.58
12:1e:397:TRP:CZ2	13:1f:260:VAL:HB	2.37	0.58
13:1f:269:LEU:N	13:1f:379:SER:O	2.33	0.58
12:1g:64:ILE:HD13	12:1g:120:VAL:HG12	1.85	0.58
12:2a:99:ASN:HD22	13:2b:258:ASN:HD21	1.50	0.58
13:2b:273:ALA:O	13:2b:375:VAL:N	2.27	0.58
30:3F:543:SER:HB3	30:3F:546:GLU:HG3	1.84	0.58
31:3I:256:ARG:O	31:3I:260:VAL:HG22	2.02	0.58
34:3M:274:ILE:O	34:3M:277:VAL:HG22	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3M:325:ASP:HA	34:3M:328:MET:SD	2.42	0.58
34:3N:87:ASN:HB3	34:3Q:37:ASN:OD1	2.03	0.58
34:3R:355:SER:HA	34:3R:358:GLU:HG3	1.85	0.58
34:3T:77:GLN:HB3	34:3T:317:ARG:NH2	2.17	0.58
13:3d:251:ASP:HB2	13:3d:254:GLU:HG3	1.85	0.58
35:4C:841:PHE:CE2	35:4C:843:MET:HA	2.37	0.58
35:4C:891:SER:CB	35:4C:926:THR:HG22	2.33	0.58
37:4E:559:MET:HA	42:5H:108:PRO:HD3	1.84	0.58
37:4F:526:ARG:NH2	37:4F:680:VAL:HB	2.16	0.58
37:4F:541:ALA:HB1	38:4K:46:ALA:HB1	1.85	0.58
37:4F:960:LEU:HD11	37:4F:968:VAL:HG13	1.82	0.58
37:4F:1753:GLN:HE22	38:4N:24:THR:N	2.01	0.58
37:4G:529:VAL:HG11	38:4I:62:MET:HG2	1.81	0.58
37:4G:690:CYS:SG	38:4I:59:PRO:CD	2.87	0.58
37:4G:1335:MET:HG2	37:4G:1338:PHE:CD2	2.38	0.58
37:4G:1357:THR:O	37:4G:1369:GLY:HA2	2.03	0.58
38:4I:77:VAL:HG11	38:4L:84:LEU:HD13	1.85	0.58
38:4M:33:LYS:CE	38:4M:33:LYS:HA	2.32	0.58
38:4O:15:PRO:O	38:4O:18:PRO:HD2	2.03	0.58
40:4U:619:LEU:HB3	40:4U:622:THR:HG22	1.84	0.58
12:4c:243:PRO:HB2	12:4c:355:ASP:OD2	2.03	0.58
42:5H:49:ILE:HG23	42:5H:49:ILE:HD13	1.84	0.58
43:5J:34:ALA:HB1	43:5J:42:TYR:CE2	2.38	0.58
12:5a:415:MET:O	12:5a:419:VAL:HG23	2.03	0.58
13:5b:210:TYR:CE1	12:5c:324:LYS:HB2	2.38	0.58
13:5d:251:ASP:HB2	13:5d:254:GLU:HG3	1.85	0.58
12:5e:102:ALA:HB1	12:5e:401:GLU:OE1	2.03	0.58
12:5e:395:LEU:O	12:5e:399:THR:HG23	2.02	0.58
13:5f:251:ASP:HB2	13:5f:254:GLU:HG3	1.85	0.58
47:6A:1000:ALA:O	47:6A:1001:THR:OG1	2.21	0.58
47:6B:215:ALA:O	47:6B:219:LYS:HG3	2.03	0.58
48:6F:259:VAL:CG1	48:6F:262:ASN:HD22	2.16	0.58
50:6K:60:VAL:HG12	50:6K:267:ARG:HG2	1.85	0.58
13:6d:241:SER:OG	13:6d:250:VAL:O	2.20	0.58
13:6f:4:VAL:HG12	13:6f:133:GLN:HB2	1.85	0.58
12:7a:256:ASN:HB3	12:7a:350:LYS:HG3	1.84	0.58
13:8b:241:SER:OG	13:8b:250:VAL:O	2.20	0.58
13:8f:241:SER:OG	13:8f:250:VAL:O	2.20	0.58
12:Ac:172:SER:HA	12:Ac:203:ASP:OD1	2.03	0.58
13:Ah:241:SER:OG	13:Ah:250:VAL:O	2.20	0.58
13:Bd:251:ASP:HB2	13:Bd:254:GLU:HG3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Cb:4:VAL:HG12	13:Cb:133:GLN:HB2	1.85	0.58
12:Cc:274:THR:HG21	12:Cc:279:GLN:HA	1.84	0.58
13:Cd:100:ALA:HA	12:Cc:252:LYS:HG2	1.83	0.58
12:Cc:208:TYR:CZ	12:Cc:225:LEU:HD11	2.38	0.58
1:0A:33:ASN:ND2	1:0B:3:THR:HG21	2.17	0.58
1:0B:227:ARG:HD3	1:0B:266:PHE:HB2	1.85	0.58
1:0C:417:LEU:O	1:0C:421:VAL:HG23	2.03	0.58
1:0E:395:ASP:OD1	1:0E:396:LEU:N	2.36	0.58
1:0X:42:ALA:HB2	1:0Y:10:PHE:HZ	1.67	0.58
1:0Y:335:LYS:NZ	1:0Y:339:PRO:HD3	2.18	0.58
1:0Z:256:ILE:HG23	1:0Z:271:SER:HB2	1.85	0.58
1:1B:320:ILE:HG22	1:1B:327:LEU:HB3	1.84	0.58
1:1C:176:VAL:HG11	1:1C:213:TYR:HB3	1.84	0.58
2:1G:95:LEU:O	2:1G:99:VAL:HG23	2.03	0.58
3:1H:625:ALA:HA	3:1H:628:ARG:HG2	1.85	0.58
4:1K:261:THR:HA	4:1K:286:GLY:HA3	1.84	0.58
7:1O:1481:LEU:HD11	7:1O:1485:ARG:HE	1.68	0.58
7:1O:3106:LEU:HD11	7:1O:3147:LEU:HB2	1.84	0.58
10:1R:365:VAL:HG12	12:Bc:336:LYS:HD3	1.85	0.58
13:1b:4:VAL:HG12	13:1b:133:GLN:HB2	1.85	0.58
13:1f:4:VAL:HG12	13:1f:133:GLN:HB2	1.85	0.58
13:1h:4:VAL:HG12	13:1h:133:GLN:HB2	1.85	0.58
12:2g:222:PHE:CD2	13:2h:247:ALA:HB1	2.38	0.58
30:3G:538:LEU:HD13	13:7h:120:ASP:HB2	1.85	0.58
31:3H:116:VAL:HG21	31:3H:207:LEU:HD11	1.84	0.58
34:3O:365:GLU:HA	34:3O:368:LEU:HD12	1.85	0.58
34:3P:108:SER:HA	34:3P:111:ILE:HG12	1.85	0.58
34:3P:118:HIS:O	34:3P:121:LEU:HG	2.02	0.58
34:3S:325:ASP:HA	34:3S:328:MET:SD	2.43	0.58
34:3T:386:HIS:O	34:3T:390:LEU:HD23	2.04	0.58
34:3V:118:HIS:HE1	34:3V:356:PHE:HB3	1.68	0.58
34:3V:235:LEU:HA	34:3Z:99:ARG:HH22	1.68	0.58
13:3b:273:ALA:O	13:3b:375:VAL:N	2.27	0.58
37:4E:581:LEU:O	43:5L:35:LYS:C	2.46	0.58
37:4E:581:LEU:HD21	43:5L:30:ARG:HA	1.85	0.58
37:4E:588:PRO:O	37:4E:589:PRO:O	2.21	0.58
37:4E:1302:ASN:HB2	43:5L:122:MET:HE1	1.84	0.58
37:4E:1467:GLU:HB3	37:4E:1471:LEU:HB2	1.85	0.58
37:4F:1195:ARG:HD2	37:4F:1279:LEU:HD21	1.85	0.58
37:4F:1316:GLN:HA	37:4F:1321:THR:HG21	1.84	0.58
37:4G:856:MET:CE	38:4L:85:LEU:HD23	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:973:HIS:CE1	37:4G:976:ASP:HB2	2.38	0.58
37:4G:1303:VAL:HG12	37:4G:1317:ASP:CA	2.33	0.58
37:4H:1136:ARG:HB2	37:4H:1146:SER:CA	2.30	0.58
37:4H:1308:TYR:HE2	37:4H:1314:LEU:HB2	1.68	0.58
37:4H:1333:VAL:CG2	38:4M:27:ALA:HB3	2.32	0.58
38:4I:60:VAL:CG1	38:4I:84:LEU:HA	2.33	0.58
38:4J:60:VAL:CG1	38:4J:84:LEU:HA	2.33	0.58
13:4h:251:ASP:HB2	13:4h:254:GLU:HG3	1.86	0.58
41:5A:141:ASN:C	43:5L:167:PRO:HA	2.27	0.58
41:5B:109:ALA:HA	41:5B:127:ALA:O	2.03	0.58
41:5C:109:ALA:HA	41:5C:127:ALA:O	2.03	0.58
41:5D:109:ALA:HA	41:5D:127:ALA:O	2.03	0.58
43:5I:55:TYR:O	43:5I:58:THR:OG1	2.17	0.58
43:5K:51:HIS:CE1	43:5K:146:TYR:HH	2.20	0.58
46:5Z:108:ALA:O	46:5Z:112:VAL:HG23	2.03	0.58
13:5b:251:ASP:HB2	13:5b:254:GLU:HG3	1.86	0.58
47:6A:215:ALA:O	47:6A:219:LYS:HG3	2.03	0.58
3:6D:616:TYR:HH	3:6D:629:TRP:CD1	2.21	0.58
48:6E:259:VAL:CG1	48:6E:262:ASN:HD22	2.16	0.58
49:6G:71:ARG:HD2	49:6I:33:SER:OG	2.02	0.58
50:6L:60:VAL:HG12	50:6L:267:ARG:HG2	1.85	0.58
51:6M:2001:VAL:HG12	51:6M:2005:CYS:SG	2.43	0.58
51:6N:2001:VAL:HG12	51:6N:2005:CYS:SG	2.43	0.58
13:6b:241:SER:OG	13:6b:250:VAL:O	2.20	0.58
13:6d:273:ALA:O	13:6d:375:VAL:N	2.27	0.58
13:7h:241:SER:OG	13:7h:250:VAL:O	2.20	0.58
12:8e:139:LEU:HD12	12:8e:170:VAL:HG22	1.86	0.58
13:8h:251:ASP:HB2	13:8h:254:GLU:HG3	1.86	0.58
12:9e:3:GLU:HB3	12:9e:62:ARG:NH2	2.17	0.58
13:Ad:12:ALA:HB3	13:Ad:140:ALA:HB2	1.84	0.58
13:Ah:207:GLU:OE1	13:Ah:304:LYS:NZ	2.30	0.58
13:Bb:241:SER:OG	13:Bb:250:VAL:O	2.20	0.58
13:Bd:4:VAL:HG12	13:Bd:133:GLN:HB2	1.85	0.58
12:Be:73:MET:HA	12:Be:76:VAL:HG12	1.85	0.58
13:Cd:4:VAL:HG12	13:Cd:133:GLN:HB2	1.85	0.58
13:Cf:4:VAL:HG12	13:Cf:133:GLN:HB2	1.85	0.58
12:Cg:114:ASP:OD1	12:Cg:115:SER:N	2.35	0.58
13:Dh:4:VAL:HG12	13:Dh:133:GLN:HB2	1.85	0.58
1:0A:172:LEU:HD22	1:0A:187:ALA:HA	1.84	0.58
1:0C:173:VAL:HG22	1:0C:210:ALA:HB2	1.85	0.58
1:0F:363:ILE:HG22	1:0F:370:HIS:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0G:244:ALA:O	1:0G:248:VAL:HG23	2.03	0.58
1:0N:233:LEU:HD13	1:0N:252:ILE:HG21	1.84	0.58
1:0T:92:LEU:HD11	1:0T:107:LEU:HD11	1.85	0.58
1:0U:80:VAL:HG22	1:0U:85:LEU:HD11	1.84	0.58
1:0U:346:GLU:HG3	1:0U:347:GLU:CD	2.28	0.58
1:0U:363:ILE:HG22	1:0U:370:HIS:HB3	1.85	0.58
1:1B:128:ASP:HA	1:1B:131:VAL:HG22	1.85	0.58
1:1B:149:LEU:HD23	1:1B:172:LEU:HD21	1.84	0.58
3:1H:1005:PRO:CA	47:6A:406:ARG:HB2	2.33	0.58
4:1J:261:THR:HA	4:1J:286:GLY:HA3	1.84	0.58
4:1K:194:LEU:O	4:1K:217:VAL:HG13	2.02	0.58
5:1M:560:MET:HG2	13:1f:434:GLU:OE1	2.04	0.58
10:1S:430:HIS:NE2	12:Ae:77:ARG:HD2	2.19	0.58
12:1a:3:GLU:HB3	12:1a:62:ARG:NH2	2.18	0.58
12:1a:3:GLU:HB3	12:1a:62:ARG:HH21	1.68	0.58
12:1a:175:VAL:HG21	13:1b:332:VAL:CG1	2.33	0.58
12:1c:20:PHE:HA	12:1c:230:SER:HB2	1.85	0.58
13:1d:4:VAL:HG12	13:1d:133:GLN:HB2	1.85	0.58
24:2T:165:LEU:HA	24:2T:168:ILE:HD12	1.84	0.58
24:2V:211:ARG:HB3	13:Cd:409:VAL:HG11	1.84	0.58
13:2d:4:VAL:HG12	13:2d:133:GLN:HB2	1.85	0.58
12:2e:86:ARG:HG3	12:3e:281:TYR:HB3	1.84	0.58
29:3E:1177:LEU:O	29:3E:1181:THR:HG23	2.03	0.58
30:3F:605:SER:O	30:3F:609:ILE:HG13	2.03	0.58
32:3K:143:ASN:HD22	32:3K:145:ALA:HB2	1.69	0.58
34:3N:91:GLU:HA	34:3Q:33:GLN:NE2	2.19	0.58
34:3O:96:HIS:O	34:3O:100:ILE:HG13	2.03	0.58
34:3Q:502:VAL:O	34:3Q:506:GLU:HG2	2.03	0.58
34:3R:87:ASN:HB3	34:4B:37:ASN:OD1	2.04	0.58
34:3R:247:ASP:OD2	34:3W:248:PHE:HB3	2.04	0.58
34:3X:122:GLN:HE22	34:3X:372:GLN:HE21	1.52	0.58
34:3Z:93:VAL:HG21	34:3Z:401:VAL:HG22	1.85	0.58
34:3Z:122:GLN:HE22	34:3Z:372:GLN:HE21	1.52	0.58
13:3d:4:VAL:HG12	13:3d:133:GLN:HB2	1.85	0.58
13:3f:251:ASP:HB2	13:3f:254:GLU:HG3	1.85	0.58
35:4C:346:VAL:HG23	1:0H:179:PRO:HD2	1.85	0.58
35:4C:841:PHE:CD2	35:4C:849:ILE:HD13	2.37	0.58
37:4E:1286:THR:HG21	38:4O:10:ASN:OD1	2.04	0.58
37:4F:795:LEU:HB3	37:4F:815:ALA:HB2	1.85	0.58
37:4F:1333:VAL:CG1	38:4N:30:ALA:HA	2.32	0.58
37:4F:1334:GLU:HB2	37:4F:1340:PRO:CB	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:898:PRO:HB2	37:4G:901:VAL:HG12	1.85	0.58
37:4H:959:LEU:HB3	37:4H:971:ALA:HB3	1.85	0.58
40:4T:168:VAL:HG13	40:4T:286:VAL:HG11	1.84	0.58
13:4b:4:VAL:HG12	13:4b:133:GLN:HB2	1.85	0.58
43:5J:58:THR:HG22	43:5J:130:TRP:CH2	2.38	0.58
12:5e:189:VAL:O	12:5e:193:VAL:HG13	2.04	0.58
47:6A:88:GLY:C	47:6A:92:ARG:HE	2.11	0.58
47:6A:492:ASN:O	47:6A:493:LEU:O	2.21	0.58
47:6A:606:LYS:HD2	47:6A:766:VAL:HG11	1.85	0.58
3:6D:594:GLY:C	3:6D:600:VAL:HG11	2.28	0.58
49:6G:278:TYR:CB	49:6G:281:LYS:HE2	2.33	0.58
13:6b:251:ASP:HB2	13:6b:254:GLU:HG3	1.85	0.58
13:6h:273:ALA:O	13:6h:375:VAL:N	2.27	0.58
12:7e:377:MET:O	12:7e:381:VAL:HG23	2.03	0.58
12:8a:396:HIS:CD2	13:8b:263:PRO:HD3	2.37	0.58
12:8g:391:ARG:NH2	13:8h:438:GLU:O	2.36	0.58
13:8h:241:SER:OG	13:8h:250:VAL:O	2.20	0.58
13:Ab:4:VAL:HG12	13:Ab:133:GLN:HB2	1.85	0.58
12:Ac:178:THR:HG23	12:Ac:181:GLU:HG3	1.84	0.58
12:Bg:341:PHE:HB3	12:Bg:348:ASN:HD22	1.68	0.58
13:Bh:4:VAL:HG12	13:Bh:133:GLN:HB2	1.85	0.58
13:Bh:251:ASP:HB2	13:Bh:254:GLU:HG3	1.85	0.58
13:Ch:241:SER:OG	13:Ch:250:VAL:O	2.20	0.58
1:0G:368:PRO:HA	1:0G:410:LYS:HB3	1.86	0.58
1:0Q:169:VAL:O	1:0Q:173:VAL:HG23	2.03	0.58
1:0Y:217:LEU:HB2	1:0Y:229:VAL:HG11	1.84	0.58
1:1A:164:VAL:HG21	1:1A:201:LEU:HD22	1.84	0.58
1:1A:243:LEU:O	1:1A:247:VAL:HG23	2.02	0.58
5:1M:248:ARG:H	5:1M:354:GLY:HA3	1.67	0.58
13:2b:4:VAL:HG12	13:2b:133:GLN:HB2	1.85	0.58
30:3G:534:PRO:HB2	13:7h:113:GLU:HG2	1.85	0.58
30:3G:573:LYS:NZ	12:7g:404:ASP:OD2	2.37	0.58
32:3J:327:GLY:HA3	32:3J:339:ALA:HB2	1.85	0.58
32:3K:327:GLY:HA3	32:3K:339:ALA:HB2	1.85	0.58
34:3O:323:ALA:HB1	34:3O:407:MET:HG2	1.84	0.58
34:3Q:492:LEU:HB3	34:3T:255:HIS:CD2	2.38	0.58
34:3S:479:ALA:O	34:3S:482:LEU:HG	2.02	0.58
34:3T:352:LEU:HB3	34:3T:375:TYR:HE1	1.67	0.58
13:3b:251:ASP:HB2	13:3b:254:GLU:HG3	1.86	0.58
13:3h:251:ASP:HB2	13:3h:254:GLU:HG3	1.86	0.58
37:4F:1340:PRO:HA	38:4N:31:ALA:H	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1093:VAL:HG12	38:4L:33:LYS:HE3	1.84	0.58
37:4H:1332:SER:CA	37:4H:1342:LEU:HD23	2.33	0.58
37:4H:1341:ILE:HG23	37:4H:1350:ILE:CD1	2.33	0.58
38:4K:76:PRO:HD2	38:4N:53:LEU:HD22	1.68	0.58
38:4N:82:TYR:HA	38:4N:85:LEU:HG	1.85	0.58
13:4b:251:ASP:HB2	13:4b:254:GLU:HG3	1.85	0.58
13:4h:269:LEU:N	13:4h:379:SER:O	2.33	0.58
42:5E:136:HIS:HB3	42:5E:139:LEU:HD12	1.85	0.58
42:5F:136:HIS:HB3	42:5F:139:LEU:HD12	1.85	0.58
13:5b:73:THR:OG1	12:5c:247:ASN:ND2	2.37	0.58
13:5f:273:ALA:O	13:5f:375:VAL:N	2.27	0.58
47:6A:86:GLU:N	47:6A:86:GLU:OE1	2.37	0.58
47:6B:88:GLY:C	47:6B:92:ARG:HE	2.11	0.58
47:6B:796:ILE:HG21	47:6B:810:LEU:O	2.03	0.58
3:6D:640:GLY:O	3:6D:644:ARG:HG2	2.03	0.58
48:6F:292:ALA:HA	48:6F:563:GLY:HA2	1.84	0.58
49:6H:472:TRP:H	49:6H:472:TRP:CD1	2.21	0.58
13:6f:207:GLU:OE1	13:6f:304:LYS:NZ	2.30	0.58
13:7d:12:ALA:HB3	13:7d:140:ALA:HB2	1.84	0.58
12:7e:20:PHE:HA	12:7e:230:SER:HB2	1.84	0.58
12:8a:285:THR:HG23	12:8a:288:GLU:H	1.68	0.58
12:8c:341:PHE:HB3	12:8c:348:ASN:HD22	1.68	0.58
12:Ae:33:THR:HG23	12:Ae:35:THR:HG22	1.84	0.58
13:Bd:12:ALA:HB3	13:Bd:140:ALA:HB2	1.84	0.58
13:Bd:241:SER:OG	13:Bd:250:VAL:O	2.20	0.58
13:Bf:241:SER:OG	13:Bf:250:VAL:O	2.20	0.58
13:Bf:251:ASP:HB2	13:Bf:254:GLU:HG3	1.85	0.58
13:Cd:241:SER:OG	13:Cd:250:VAL:O	2.20	0.58
12:Ce:98:GLY:O	13:Cf:257:THR:OG1	2.13	0.58
13:Db:362:VAL:HB	13:Db:370:LYS:HB2	1.86	0.58
13:Df:4:VAL:HG12	13:Df:133:GLN:HB2	1.85	0.58
1:0K:131:VAL:HG13	1:0K:171:LEU:HD11	1.85	0.58
1:0B:346:GLU:HG3	1:0B:347:GLU:CD	2.28	0.58
1:0B:363:ILE:HG22	1:0B:370:HIS:HB3	1.84	0.58
1:0D:248:VAL:HG21	1:0D:285:LEU:HD22	1.86	0.58
1:0G:358:TRP:CD1	1:0G:362:GLN:HE22	2.21	0.58
1:0R:42:ALA:HB2	1:0S:10:PHE:HZ	1.67	0.58
1:0S:85:LEU:HA	1:0S:88:LEU:HD12	1.85	0.58
1:0T:134:LEU:HD11	1:0T:149:LEU:HD11	1.85	0.58
1:0T:395:ASP:OD1	1:0T:396:LEU:N	2.37	0.58
1:0U:4:ARG:NH2	13:Dd:196:GLU:OE2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0U:311:LEU:HD21	1:0U:352:LEU:HA	1.85	0.58
1:0X:3:THR:HG22	1:0X:6:VAL:HG23	1.85	0.58
1:0X:337:LEU:O	1:0X:341:VAL:HG23	2.02	0.58
1:1A:186:ILE:CA	5:1L:588:ARG:HH12	2.14	0.58
3:1H:991:ILE:HG12	47:6A:399:LYS:HB2	1.85	0.58
3:1I:841:SER:OG	3:1I:937:MET:HE3	2.04	0.58
7:1O:1635:SER:OG	7:1O:1923:PRO:HB2	2.02	0.58
10:1R:175:ARG:HH22	13:Ab:423:GLU:CD	2.12	0.58
13:1f:251:ASP:HB2	13:1f:254:GLU:HG3	1.85	0.58
13:1f:273:ALA:O	13:1f:375:VAL:N	2.27	0.58
24:2T:205:GLN:NE2	12:Cg:194:GLU:O	2.31	0.58
12:2a:176:SER:OG	12:2a:181:GLU:OE1	2.16	0.58
12:2a:415:MET:O	12:2a:419:VAL:HG23	2.03	0.58
13:2f:4:VAL:HG12	13:2f:133:GLN:HB2	1.85	0.58
13:2h:4:VAL:HG12	13:2h:133:GLN:HB2	1.85	0.58
30:3F:248:PRO:C	30:3F:250:GLU:H	2.06	0.58
30:3G:673:GLU:HB3	13:7d:311:LYS:HE3	1.84	0.58
34:3P:497:MET:SD	34:3S:471:ARG:HD2	2.44	0.58
34:3Z:502:VAL:HG12	34:3Z:506:GLU:OE2	2.04	0.58
12:3a:86:ARG:CB	12:4a:281:TYR:HD1	2.17	0.58
13:3f:4:VAL:HG12	13:3f:133:GLN:HB2	1.85	0.58
37:4E:581:LEU:CD2	43:5L:33:LEU:HB3	2.24	0.58
37:4F:510:HIS:CD2	37:4F:510:HIS:N	2.70	0.58
37:4F:1083:ILE:N	38:4N:38:VAL:HB	2.17	0.58
37:4F:1093:VAL:HG13	38:4N:33:LYS:CE	2.32	0.58
37:4F:1323:ILE:CB	38:4N:26:GLU:HB3	2.29	0.58
37:4G:1335:MET:HE3	37:4G:1339:ALA:N	2.19	0.58
37:4H:1180:ALA:HA	37:4H:1201:SER:HB3	1.86	0.58
37:4H:1524:LEU:HD23	37:4H:1616:VAL:HG21	1.86	0.58
38:4M:49:ILE:HG22	38:4M:50:ARG:N	2.19	0.58
41:4X:33:TYR:HA	41:4X:81:TYR:HA	1.86	0.58
12:4c:178:THR:OG1	12:4c:181:GLU:HG2	2.02	0.58
13:4d:251:ASP:HB2	13:4d:254:GLU:HG3	1.86	0.58
13:4f:251:ASP:HB2	13:4f:254:GLU:HG3	1.86	0.58
41:5A:149:TYR:O	41:5A:156:LYS:HA	2.03	0.58
42:5H:49:ILE:HA	43:5L:144:TYR:CB	2.23	0.58
42:5H:136:HIS:CE1	43:5L:50:ILE:HG22	2.39	0.58
43:5J:90:GLN:OE1	43:5J:147:THR:OG1	2.20	0.58
13:5b:4:VAL:HG12	13:5b:133:GLN:HB2	1.85	0.58
13:5b:362:VAL:HB	13:5b:370:LYS:HB2	1.86	0.58
12:5c:64:ILE:HD13	12:5c:120:VAL:HG12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5d:4:VAL:HG12	13:5d:133:GLN:HB2	1.85	0.58
47:6B:86:GLU:N	47:6B:86:GLU:OE1	2.37	0.58
13:7d:251:ASP:HB2	13:7d:254:GLU:HG3	1.85	0.58
13:7f:251:ASP:HB2	13:7f:254:GLU:HG3	1.85	0.58
13:7h:4:VAL:HG12	13:7h:133:GLN:HB2	1.85	0.58
12:8c:60:VAL:HG21	12:8c:86:ARG:HH11	1.68	0.58
13:8f:4:VAL:HG12	13:8f:133:GLN:HB2	1.85	0.58
13:8f:251:ASP:HB2	13:8f:254:GLU:HG3	1.86	0.58
13:8h:4:VAL:HG12	13:8h:133:GLN:HB2	1.85	0.58
13:9h:4:VAL:HG12	13:9h:133:GLN:HB2	1.85	0.58
13:Af:4:VAL:HG12	13:Af:133:GLN:HB2	1.85	0.58
12:Ba:58:ARG:NH2	12:Ca:281:TYR:CZ	2.71	0.58
13:Bb:12:ALA:HB3	13:Bb:140:ALA:HB2	1.84	0.58
13:Bb:251:ASP:HB2	13:Bb:254:GLU:HG3	1.85	0.58
12:Bg:135:VAL:HG11	12:Bg:152:ILE:HD11	1.84	0.58
13:Cb:241:SER:OG	13:Cb:250:VAL:O	2.20	0.58
13:Cb:251:ASP:HB2	13:Cb:254:GLU:HG3	1.85	0.58
13:Db:251:ASP:HB2	13:Db:254:GLU:HG3	1.85	0.58
13:Dd:4:VAL:HG12	13:Dd:133:GLN:HB2	1.85	0.58
13:Dd:362:VAL:HB	13:Dd:370:LYS:HB2	1.86	0.58
12:De:178:THR:HG22	13:Df:352:LYS:HZ3	1.67	0.58
13:Df:362:VAL:HB	13:Df:370:LYS:HB2	1.86	0.58
13:Dh:362:VAL:HB	13:Dh:370:LYS:HB2	1.86	0.58
1:0J:358:TRP:HB2	1:0J:399:LYS:HD2	1.85	0.58
1:0W:349:GLU:HB3	1:0W:351:HIS:CE1	2.38	0.58
1:0B:173:VAL:HG12	1:0B:177:GLN:NE2	2.19	0.58
1:0B:370:HIS:O	1:0B:374:VAL:HG23	2.04	0.58
1:0D:295:VAL:O	1:0D:299:VAL:HG23	2.03	0.58
1:0F:349:GLU:HB3	1:0F:351:HIS:CE1	2.38	0.58
1:0L:108:ARG:HD3	1:0L:147:TRP:HB3	1.85	0.58
1:0M:275:VAL:HG13	1:0M:289:VAL:HG11	1.86	0.58
1:0Q:403:ALA:O	1:0Q:407:VAL:HG23	2.03	0.58
1:0R:65:LEU:HD22	1:0R:84:ILE:HG21	1.85	0.58
1:0R:280:LYS:HE2	47:6B:273:GLY:HA2	1.86	0.58
1:0R:344:LEU:HD11	1:0R:360:LEU:HD11	1.85	0.58
1:0T:221:GLN:HA	1:0T:226:LYS:CE	2.28	0.58
1:0V:350:ASP:CA	1:0V:353:LYS:HG3	2.28	0.58
1:0X:219:ILE:HG12	1:0X:255:LYS:HG2	1.84	0.58
1:0Y:159:LEU:O	1:0Y:163:VAL:HG23	2.04	0.58
1:1B:144:ALA:O	1:1B:148:THR:HG23	2.03	0.58
2:1E:124:ASN:O	2:1E:168:ASN:ND2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1H:987:VAL:HG11	47:6A:396:SER:N	2.17	0.58
3:1I:560:PRO:HD3	3:1I:574:LEU:HD13	1.83	0.58
4:1J:86:ILE:HB	4:1J:176:THR:HG21	1.84	0.58
4:1J:196:PHE:CZ	4:1J:229:LEU:HD21	2.39	0.58
5:1L:383:ASP:HA	5:1L:471:SER:H	1.68	0.58
5:1M:383:ASP:HA	5:1M:471:SER:H	1.68	0.58
5:1M:560:MET:HE1	13:1f:265:ILE:CD1	2.34	0.58
7:1O:3185:ARG:HD3	7:1O:3192:PHE:CE1	2.39	0.58
13:1b:251:ASP:HB2	13:1b:254:GLU:HG3	1.86	0.58
14:2G:167:TRP:HH2	12:Ae:282:ARG:HB3	1.68	0.58
21:2O:45:UNK:O	12:6e:320:ARG:NH1	2.37	0.58
13:2d:251:ASP:HB2	13:2d:254:GLU:HG3	1.85	0.58
30:3F:299:LEU:HA	13:6f:431:ASP:OD1	2.04	0.58
34:3P:121:LEU:HD22	34:3P:357:LEU:CD1	2.33	0.58
34:3R:296:SER:HB2	34:4B:209:THR:HA	1.86	0.58
34:3S:46:ARG:HH21	34:3S:449:GLU:CD	2.12	0.58
34:3U:348:LYS:NZ	34:3U:382:LEU:HD22	2.19	0.58
34:3Z:103:LEU:HD13	34:3Z:338:LEU:HG	1.84	0.58
12:3a:179:VAL:HG12	13:3b:351:PHE:N	2.19	0.58
13:3b:4:VAL:HG12	13:3b:133:GLN:HB2	1.85	0.58
12:3c:179:VAL:HG23	13:3d:352:LYS:HB2	1.85	0.58
35:4C:359:LEU:HD21	35:4C:386:LEU:HD13	1.85	0.58
37:4E:580:GLU:N	37:4E:580:GLU:HA	2.04	0.58
37:4E:1701:GLN:HE21	37:4E:1773:PRO:HG2	1.67	0.58
37:4F:537:LEU:HD21	38:4K:53:LEU:HD11	1.85	0.58
37:4F:1334:GLU:CB	38:4N:27:ALA:O	2.52	0.58
37:4F:1335:MET:HB2	37:4F:1337:GLY:N	2.19	0.58
37:4G:1074:GLN:HB3	38:4L:38:VAL:CG1	2.34	0.58
37:4G:1083:ILE:HA	38:4L:34:ALA:C	2.28	0.58
37:4H:422:TRP:CE2	37:4H:426:VAL:HG21	2.39	0.58
37:4H:510:HIS:ND1	38:4M:66:GLN:HB3	2.19	0.58
37:4H:773:ARG:HD2	37:4H:1636:VAL:HG12	1.85	0.58
37:4H:972:PHE:CE1	38:4M:41:LYS:HE2	2.38	0.58
37:4H:1288:THR:HG22	37:4H:1295:ARG:HD2	1.85	0.58
37:4H:1313:VAL:O	37:4H:1323:ILE:O	2.22	0.58
37:4H:1322:ARG:NH2	37:4H:1709:LEU:HD23	2.19	0.58
38:4I:57:VAL:O	38:4I:60:VAL:HG23	2.04	0.58
38:4I:73:PRO:HD2	38:4I:76:PRO:CG	2.27	0.58
38:4J:49:ILE:HG22	38:4J:50:ARG:N	2.19	0.58
38:4K:32:GLU:HG3	38:4K:33:LYS:HZ1	1.68	0.58
38:4M:82:TYR:N	38:4M:82:TYR:CD1	2.70	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:4S:16:ILE:HD12	43:5K:125:GLN:HG2	1.86	0.58
40:4V:619:LEU:HB3	40:4V:622:THR:HG22	1.84	0.58
42:5H:96:ALA:H	43:5L:43:GLN:C	2.12	0.58
42:5H:136:HIS:CA	42:5H:136:HIS:H	2.04	0.58
12:5e:190:HIS:O	12:5e:193:VAL:HG22	2.03	0.58
47:6A:796:ILE:HG21	47:6A:810:LEU:O	2.03	0.58
47:6B:574:ALA:HA	47:6B:1160:LEU:HD11	1.84	0.58
47:6B:772:ARG:HH22	48:6E:61:ARG:HG2	1.67	0.58
49:6H:278:TYR:CB	49:6H:281:LYS:HE2	2.33	0.58
51:6M:1240:LYS:HZ1	51:6M:1428:LEU:HD21	1.68	0.58
51:6M:1322:LEU:HD11	51:6M:1342:PRO:HG3	1.86	0.58
51:6M:1557:LEU:HD11	51:6M:1961:ALA:HB1	1.86	0.58
51:6N:1557:LEU:HD11	51:6N:1961:ALA:HB1	1.86	0.58
13:6d:251:ASP:HB2	13:6d:254:GLU:HG3	1.86	0.58
13:7f:4:VAL:HG12	13:7f:133:GLN:HB2	1.85	0.58
13:7f:207:GLU:OE1	13:7f:304:LYS:NZ	2.30	0.58
13:8b:251:ASP:HB2	13:8b:254:GLU:HG3	1.85	0.58
13:8d:251:ASP:HB2	13:8d:254:GLU:HG3	1.86	0.58
13:8h:80:THR:O	13:8h:84:ARG:NH2	2.37	0.58
13:9b:80:THR:O	13:9b:84:ARG:NH2	2.37	0.58
12:9c:178:THR:OG1	13:9d:258:ASN:OD1	2.21	0.58
13:9d:4:VAL:HG12	13:9d:133:GLN:HB2	1.85	0.58
13:9f:362:VAL:HB	13:9f:370:LYS:HB2	1.86	0.58
12:9g:235:GLY:HA2	12:9g:238:CYS:SG	2.44	0.58
12:Aa:45:GLU:HG3	12:Aa:46:ARG:HG2	1.86	0.58
13:Ab:12:ALA:HB3	13:Ab:140:ALA:HB2	1.84	0.58
12:Ag:323:THR:HA	12:Ag:326:VAL:HG12	1.86	0.58
12:Be:171:PRO:HG3	12:Be:181:GLU:HG2	1.86	0.58
13:Bf:12:ALA:HB3	13:Bf:140:ALA:HB2	1.84	0.58
13:Cf:241:SER:OG	13:Cf:250:VAL:O	2.20	0.58
13:Ch:4:VAL:HG12	13:Ch:133:GLN:HB2	1.85	0.58
1:0J:227:ARG:HG3	1:0J:267:VAL:HG22	1.85	0.58
1:0I:169:VAL:O	1:0I:173:VAL:HG23	2.03	0.58
1:0A:319:TYR:CD1	1:0A:358:TRP:HH2	2.21	0.58
1:0B:95:GLN:N	1:0B:95:GLN:OE1	2.36	0.58
1:0B:159:LEU:O	1:0B:163:VAL:HG23	2.04	0.58
1:0B:173:VAL:HG12	1:0B:177:GLN:HE21	1.69	0.58
1:0B:265:GLU:HA	1:0B:268:LYS:HE2	1.85	0.58
1:0B:276:ARG:HD2	1:0B:315:MET:SD	2.43	0.58
1:0C:34:ILE:HG23	1:0C:68:LEU:HD22	1.86	0.58
1:0C:75:LEU:O	1:0C:79:VAL:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0D:370:HIS:O	1:0D:374:VAL:HG23	2.04	0.58
1:0Q:14:GLN:O	1:0Q:18:VAL:HG23	2.03	0.58
1:0R:137:PHE:O	4:1K:120:ARG:NH1	2.37	0.58
1:0R:358:TRP:CE2	47:6B:274:ILE:HG23	2.38	0.58
1:0V:37:LEU:HD12	1:0V:68:LEU:HD21	1.85	0.58
1:0X:47:ARG:HG3	1:0X:84:ILE:HG12	1.85	0.58
1:0X:172:LEU:HD22	1:0X:187:ALA:HA	1.84	0.58
1:0Y:95:GLN:OE1	1:0Y:95:GLN:N	2.36	0.58
1:1B:248:VAL:HG21	1:1B:285:LEU:HG	1.86	0.58
2:1G:217:ALA:O	2:1G:263:HIS:NE2	2.35	0.58
3:1I:797:PRO:HD3	3:1I:919:GLU:HG2	1.85	0.58
4:1K:196:PHE:CZ	4:1K:229:LEU:HD21	2.38	0.58
5:1M:518:LEU:HD21	13:1f:189:LEU:CD1	2.34	0.58
6:1N:90:GLN:HA	6:1N:143:LEU:HD11	1.86	0.58
6:1N:1157:CYS:SG	6:1N:1177:LYS:HG2	2.44	0.58
7:1O:174:THR:HG22	7:1O:200:CYS:HB2	1.84	0.58
7:1O:1216:VAL:HG21	7:1O:1276:GLY:HA3	1.86	0.58
7:1O:1512:ARG:O	7:1O:1516:VAL:HG23	2.04	0.58
8:1P:766:VAL:HA	8:1P:769:VAL:HG12	1.85	0.58
12:1a:3:GLU:HB2	12:1a:127:CYS:SG	2.43	0.58
13:1b:269:LEU:N	13:1b:379:SER:O	2.33	0.58
12:1g:341:PHE:HB3	12:1g:348:ASN:HD22	1.69	0.58
17:2K:16:UNK:O	13:Df:229:ARG:NH2	2.37	0.58
24:2U:205:GLN:NE2	12:Cc:194:GLU:O	2.36	0.58
31:3H:197:GLU:O	31:3H:201:ARG:HD3	2.04	0.58
32:3J:118:TYR:HD1	32:3J:139:TYR:HB3	1.67	0.58
32:3J:363:ILE:HD11	12:9a:416:ASN:HA	1.86	0.58
34:3M:46:ARG:HH21	34:3M:449:GLU:CD	2.12	0.58
34:3P:312:TRP:HH2	34:3P:415:TYR:O	1.86	0.58
34:3R:75:GLN:HB2	34:3R:419:LEU:HD13	1.85	0.58
34:3T:387:VAL:O	34:3T:391:GLU:HG2	2.04	0.58
34:3U:312:TRP:HH2	34:3U:415:TYR:O	1.86	0.58
34:3V:338:LEU:HD21	34:3V:393:ALA:CB	2.34	0.58
34:3W:60:TYR:HE2	34:3W:430:GLY:HA2	1.68	0.58
34:3X:99:ARG:HH22	34:4A:235:LEU:HA	1.69	0.58
13:3f:273:ALA:O	13:3f:375:VAL:N	2.27	0.58
13:3h:4:VAL:HG12	13:3h:133:GLN:HB2	1.85	0.58
35:4C:550:LEU:HB3	35:4C:741:PRO:HB3	1.86	0.58
37:4F:1138:VAL:HG12	37:4F:1142:GLY:CA	2.27	0.58
37:4G:1524:LEU:HD23	37:4G:1616:VAL:HG21	1.84	0.58
37:4H:1091:VAL:CG2	38:4M:30:ALA:HB1	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4K:76:PRO:HD2	38:4N:53:LEU:HD23	1.68	0.58
38:4L:57:VAL:O	38:4L:60:VAL:HG23	2.04	0.58
38:4O:24:THR:OG1	38:4O:25:PRO:HD3	2.04	0.58
41:4Y:146:LEU:HA	41:4Y:160:GLN:HA	1.86	0.58
41:4Z:33:TYR:HA	41:4Z:81:TYR:HA	1.86	0.58
12:4e:23:VAL:HA	12:4e:26:ASP:OD2	2.04	0.58
41:5A:139:GLU:C	41:5A:141:ASN:H	2.12	0.58
42:5H:139:LEU:CD2	43:5L:146:TYR:CB	2.80	0.58
12:5a:20:PHE:O	12:5a:23:VAL:HG22	2.02	0.58
13:5f:4:VAL:HG12	13:5f:133:GLN:HB2	1.85	0.58
13:5h:362:VAL:HB	13:5h:370:LYS:HB2	1.86	0.58
47:6A:574:ALA:HA	47:6A:1160:LEU:HD11	1.84	0.58
47:6B:172:LEU:CD1	13:Ch:390:ARG:HD3	2.34	0.58
47:6B:205:ARG:HG3	12:Bg:106:TYR:CD1	2.38	0.58
47:6B:492:ASN:O	47:6B:493:LEU:O	2.21	0.58
47:6B:606:LYS:HD2	47:6B:766:VAL:HG11	1.85	0.58
49:6G:116:ILE:HD12	49:6G:139:LEU:CD2	2.34	0.58
49:6G:472:TRP:H	49:6G:472:TRP:CD1	2.21	0.58
49:6H:116:ILE:HD12	49:6H:139:LEU:CD2	2.34	0.58
51:6N:1322:LEU:HD11	51:6N:1342:PRO:HG3	1.86	0.58
13:6b:221:ARG:HG2	12:6c:325:GLU:OE2	2.04	0.58
12:6c:341:PHE:HB3	12:6c:348:ASN:HD22	1.68	0.58
13:6h:251:ASP:HB2	13:6h:254:GLU:HG3	1.85	0.58
13:7d:4:VAL:HG12	13:7d:133:GLN:HB2	1.85	0.58
13:7d:80:THR:O	13:7d:84:ARG:NH2	2.37	0.58
12:7e:330:MET:HG3	12:7e:351:SER:OG	2.03	0.58
13:7f:80:THR:O	13:7f:84:ARG:NH2	2.37	0.58
13:7h:80:THR:O	13:7h:84:ARG:NH2	2.37	0.58
13:8b:269:LEU:N	13:8b:379:SER:O	2.33	0.58
13:8d:4:VAL:HG12	13:8d:133:GLN:HB2	1.85	0.58
13:8d:80:THR:O	13:8d:84:ARG:NH2	2.37	0.58
13:8f:80:THR:O	13:8f:84:ARG:NH2	2.37	0.58
13:8f:100:ALA:HB1	12:8g:252:LYS:HA	1.86	0.58
12:8g:135:VAL:HG11	12:8g:152:ILE:HD11	1.86	0.58
13:9b:207:GLU:OE1	13:9b:304:LYS:NZ	2.30	0.58
13:9f:80:THR:O	13:9f:84:ARG:NH2	2.37	0.58
13:9h:80:THR:O	13:9h:84:ARG:NH2	2.37	0.58
12:Ac:285:THR:HG22	12:Ac:287:PRO:CD	2.32	0.58
13:Ah:12:ALA:HB3	13:Ah:140:ALA:HB2	1.84	0.58
13:Cd:251:ASP:HB2	13:Cd:254:GLU:HG3	1.85	0.58
12:Ce:50:TYR:CE2	12:Ce:241:ARG:HD3	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ce:172:SER:OG	12:Ce:175:VAL:O	2.21	0.58
13:Ch:251:ASP:HB2	13:Ch:254:GLU:HG3	1.85	0.58
12:De:172:SER:OG	12:De:175:VAL:O	2.21	0.58
12:De:272:PRO:HD3	12:De:364:SER:HA	1.86	0.58
1:0C:185:ARG:HD2	1:0C:224:LYS:CG	2.32	0.58
1:0R:95:GLN:O	1:0R:100:LYS:NZ	2.36	0.58
1:0S:4:ARG:HH22	13:Bf:424:ASP:HA	1.68	0.58
1:0U:186:ILE:HD13	5:1M:588:ARG:NH1	2.19	0.58
1:0V:113:HIS:HB2	1:0V:117:LEU:HD12	1.86	0.58
1:0Y:30:ASN:HB2	1:0Y:33:ASN:ND2	2.18	0.58
1:0Y:241:VAL:O	1:0Y:245:GLU:HG2	2.03	0.58
1:0Z:34:ILE:HG23	1:0Z:68:LEU:HD22	1.86	0.58
1:1B:3:THR:HG22	1:1B:6:VAL:HG23	1.86	0.58
2:1G:231:ASN:HD21	2:1G:234:PRO:HG2	1.69	0.58
4:1J:389:ARG:HA	4:1J:419:TRP:HA	1.86	0.58
4:1K:86:ILE:HB	4:1K:176:THR:HG21	1.84	0.58
4:1K:389:ARG:HA	4:1K:419:TRP:HA	1.86	0.58
5:1L:248:ARG:H	5:1L:354:GLY:HA3	1.67	0.58
7:1O:84:LEU:CD2	7:1O:125:CYS:HB2	2.34	0.58
8:1P:868:TRP:CD1	8:1P:980:ARG:HB3	2.39	0.58
9:1Q:856:LEU:HB3	9:1Q:859:LEU:HD12	1.85	0.58
10:1S:75:LEU:HD21	10:1S:125:LEU:HD13	1.85	0.58
13:1d:251:ASP:HB2	13:1d:254:GLU:HG3	1.85	0.58
13:2h:12:ALA:HB3	13:2h:140:ALA:HB2	1.84	0.58
30:3G:599:ALA:HA	30:3G:602:ARG:HD2	1.86	0.58
34:3M:251:LEU:HA	34:3M:481:LEU:CD2	2.34	0.58
34:3M:258:TYR:HA	34:3M:261:ARG:HH12	1.68	0.58
34:3N:500:TYR:O	34:3N:504:LEU:HD23	2.03	0.58
34:3O:105:GLN:O	34:3O:109:LEU:HD23	2.03	0.58
34:3P:104:ARG:NH1	34:3P:387:VAL:HG13	2.12	0.58
34:3Q:89:ILE:HG13	34:3Q:90:GLU:N	2.18	0.58
34:3Q:370:GLU:HA	34:3X:360:VAL:HG23	1.85	0.58
34:3R:254:MET:HG3	34:3R:481:LEU:HD11	1.85	0.58
34:3R:503:ASN:O	34:3R:507:VAL:HG23	2.03	0.58
34:3W:71:LEU:HD22	34:3W:419:LEU:HD11	1.85	0.58
13:3d:80:THR:O	13:3d:84:ARG:NH2	2.37	0.58
13:3h:241:SER:OG	13:3h:250:VAL:O	2.20	0.58
34:4A:92:THR:HG22	34:4A:95:ARG:HH12	1.68	0.58
34:4B:60:TYR:HE2	34:4B:430:GLY:HA2	1.69	0.58
35:4C:900:ILE:O	35:4C:1111:ALA:HA	2.03	0.58
37:4E:574:LEU:CA	43:5L:30:ARG:NE	2.55	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:576:ALA:H	43:5L:30:ARG:CB	2.07	0.58
37:4F:972:PHE:CE1	37:4F:1072:ALA:O	2.57	0.58
37:4F:1341:ILE:CD1	38:4N:30:ALA:HB1	2.33	0.58
37:4G:670:GLY:C	37:4G:671:LEU:CD2	2.77	0.58
37:4G:1093:VAL:HG23	38:4L:36:VAL:CG1	2.30	0.58
37:4H:1303:VAL:HG12	37:4H:1317:ASP:HA	1.86	0.58
38:4K:29:LYS:O	38:4K:33:LYS:HD3	2.04	0.58
38:4K:82:TYR:HA	38:4K:85:LEU:HG	1.86	0.58
38:4N:32:GLU:HG3	38:4N:33:LYS:HZ1	1.67	0.58
39:4R:68:ARG:NH2	44:5Q:118:GLU:OE1	2.37	0.58
41:4Y:33:TYR:HA	41:4Y:81:TYR:HA	1.86	0.58
42:5E:146:THR:CG2	43:5I:144:TYR:OH	2.50	0.58
42:5H:137:TYR:CG	43:5L:48:THR:N	2.71	0.58
43:5K:34:ALA:HB1	43:5K:42:TYR:CE2	2.38	0.58
43:5L:34:ALA:HB1	43:5L:42:TYR:CE2	2.38	0.58
45:5W:165:UNK:C	45:5W:167:UNK:H	2.16	0.58
13:5h:4:VAL:HG12	13:5h:133:GLN:HB2	1.85	0.58
47:6A:137:HIS:CE1	47:6A:142:GLU:HB3	2.38	0.58
47:6A:1647:GLN:HE22	47:6A:1672:LEU:CA	2.16	0.58
47:6B:1640:ASP:O	47:6B:1642:ALA:N	2.37	0.58
48:6E:292:ALA:HA	48:6E:563:GLY:HA2	1.85	0.58
51:6M:1478:TYR:CD2	51:6M:1494:LEU:HD13	2.39	0.58
51:6M:1945:GLY:HA3	51:6M:2078:HIS:CE1	2.39	0.58
51:6M:2193:THR:OG1	51:6M:2197:TYR:OH	2.22	0.58
51:6N:1362:ARG:HD3	51:6N:1371:VAL:CG2	2.33	0.58
51:6N:1531:GLN:HB3	51:6N:1533:ARG:HH12	1.68	0.58
12:6e:60:VAL:CG1	12:6e:86:ARG:HD3	2.33	0.58
13:6f:251:ASP:HB2	13:6f:254:GLU:HG3	1.85	0.58
13:7b:80:THR:O	13:7b:84:ARG:NH2	2.37	0.58
13:7d:207:GLU:OE1	13:7d:304:LYS:NZ	2.30	0.58
12:7e:86:ARG:HD2	12:8e:281:TYR:CB	2.34	0.58
13:8f:362:VAL:HB	13:8f:370:LYS:HB2	1.86	0.58
13:9d:80:THR:O	13:9d:84:ARG:NH2	2.37	0.58
12:Aa:84:ILE:C	12:Aa:86:ARG:HH11	2.12	0.58
12:Ac:341:PHE:HB3	12:Ac:348:ASN:HD22	1.69	0.58
12:Ae:179:VAL:HG23	13:Af:352:LYS:HB2	1.84	0.58
12:Bg:294:TRP:CE2	12:Bg:333:VAL:HG11	2.39	0.58
12:Ce:68:LEU:HD23	12:Ce:143:THR:HG23	1.86	0.58
12:Cg:107:THR:HG21	12:Cg:401:GLU:HB3	1.86	0.58
13:Db:4:VAL:HG12	13:Db:133:GLN:HB2	1.85	0.58
13:Dd:251:ASP:HB2	13:Dd:254:GLU:HG3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:De:50:TYR:OH	12:De:237:THR:OG1	1.94	0.58
13:Df:251:ASP:HB2	13:Df:254:GLU:HG3	1.85	0.58
1:0C:18:VAL:O	1:0C:22:THR:HG23	2.03	0.58
1:0D:322:ALA:HB2	1:0D:362:GLN:HG2	1.85	0.58
1:0P:305:SER:OG	1:0P:310:ARG:HB3	2.03	0.58
1:0Q:206:VAL:HG21	1:0Q:243:LEU:HD22	1.85	0.58
1:0R:137:PHE:CD1	4:1K:120:ARG:HD2	2.39	0.58
1:0T:17:ARG:NH1	1:0T:52:ASP:OD1	2.36	0.58
1:0T:185:ARG:HD2	1:0T:224:LYS:CG	2.34	0.58
1:0U:262:PHE:CE2	1:0U:264:ASP:HB2	2.38	0.58
6:1N:732:LEU:HD22	6:1N:827:PRO:HB3	1.85	0.58
6:1N:1186:LYS:HD2	6:1N:1186:LYS:O	2.04	0.58
8:1P:769:VAL:CG1	8:1P:775:ARG:HD3	2.34	0.58
13:1f:362:VAL:HB	13:1f:370:LYS:HB2	1.86	0.58
13:1h:251:ASP:HB2	13:1h:254:GLU:HG3	1.85	0.58
13:1h:362:VAL:HB	13:1h:370:LYS:HB2	1.86	0.58
24:2V:164:VAL:HG11	13:Df:309:HIS:CD2	2.38	0.58
13:2h:251:ASP:HB2	13:2h:254:GLU:HG3	1.86	0.58
13:2h:362:VAL:HB	13:2h:370:LYS:HB2	1.86	0.58
30:3F:456:ARG:HH21	12:7c:402:GLY:HA2	1.67	0.58
34:3M:320:LEU:HD12	34:3M:324:HIS:HD2	1.69	0.58
34:3M:434:ASP:HA	34:3M:438:ILE:HD13	1.85	0.58
34:3Q:330:GLU:O	34:3Q:334:LEU:HG	2.03	0.58
34:3Q:366:VAL:HG13	34:3X:356:PHE:CD1	2.39	0.58
34:3U:253:ALA:O	34:3U:256:GLU:HG3	2.04	0.58
34:3V:336:ARG:O	34:3V:339:GLU:HG3	2.03	0.58
34:3W:266:HIS:HA	34:3W:463:HIS:CE1	2.37	0.58
13:3b:80:THR:O	13:3b:84:ARG:NH2	2.37	0.58
12:3c:68:LEU:HD23	12:3c:143:THR:HG23	1.84	0.58
13:3h:273:ALA:O	13:3h:375:VAL:N	2.27	0.58
34:4A:118:HIS:HE1	34:4A:356:PHE:HB3	1.68	0.58
34:4B:266:HIS:O	34:4B:270:ILE:HG12	2.02	0.58
37:4E:578:ASP:HA	43:5L:43:GLN:CG	2.34	0.58
37:4F:1082:LEU:N	38:4N:39:HIS:CD2	2.72	0.58
37:4G:514:TYR:HE2	37:4G:538:GLU:HB3	1.68	0.58
37:4G:970:SER:N	37:4G:1074:GLN:CB	2.67	0.58
37:4G:1081:HIS:ND1	37:4G:1338:PHE:CE2	2.72	0.58
37:4G:1288:THR:HG22	37:4G:1295:ARG:HD2	1.86	0.58
37:4H:534:HIS:HA	37:4H:537:LEU:HD12	1.85	0.58
37:4H:577:LEU:HD11	42:5F:135:ARG:CG	2.28	0.58
38:4I:29:LYS:HA	38:4I:32:GLU:CB	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4J:29:LYS:O	38:4J:33:LYS:HD3	2.04	0.58
38:4K:49:ILE:HG22	38:4K:50:ARG:N	2.19	0.58
38:4K:60:VAL:CG1	38:4K:84:LEU:HA	2.33	0.58
40:4U:168:VAL:HG13	40:4U:286:VAL:HG11	1.85	0.58
41:4X:146:LEU:HA	41:4X:160:GLN:HA	1.86	0.58
42:5E:139:LEU:HB3	43:5I:141:LEU:HD21	1.86	0.58
42:5H:129:MET:HE3	42:5H:134:LEU:HG	1.85	0.58
43:5K:58:THR:HG22	43:5K:130:TRP:CH2	2.38	0.58
44:5T:30:THR:OG1	44:5T:66:THR:HB	2.03	0.58
13:5b:269:LEU:N	13:5b:379:SER:O	2.33	0.58
13:5f:362:VAL:HB	13:5f:370:LYS:HB2	1.86	0.58
47:6A:436:ARG:HD2	47:6A:854:LEU:HB3	1.86	0.58
47:6A:1519:GLN:HG2	47:6A:1520:ASP:OD1	2.03	0.58
47:6B:382:SER:HB3	3:6D:848:ARG:HG3	1.85	0.58
47:6B:1083:SER:O	47:6B:1086:LEU:HB3	2.04	0.58
47:6B:1289:VAL:HG12	47:6B:1334:ALA:HB1	1.84	0.58
47:6B:1647:GLN:HE22	47:6B:1672:LEU:CA	2.16	0.58
49:6I:472:TRP:H	49:6I:472:TRP:CD1	2.21	0.58
12:7e:171:PRO:HG3	12:7e:181:GLU:HG2	1.85	0.58
13:8b:4:VAL:HG12	13:8b:133:GLN:HB2	1.85	0.58
13:8b:80:THR:O	13:8b:84:ARG:NH2	2.37	0.58
13:8h:362:VAL:HB	13:8h:370:LYS:HB2	1.86	0.58
12:9e:249:ASP:H	12:9e:252:LYS:HD3	1.68	0.58
13:9f:207:GLU:OE1	13:9f:304:LYS:NZ	2.30	0.58
12:9g:341:PHE:HB3	12:9g:348:ASN:HD22	1.69	0.58
13:9h:207:GLU:OE1	13:9h:304:LYS:NZ	2.30	0.58
13:9h:362:VAL:HB	13:9h:370:LYS:HB2	1.86	0.58
13:Ab:80:THR:O	13:Ab:84:ARG:NH2	2.37	0.58
12:Ac:86:ARG:HA	12:Bc:281:TYR:CD1	2.39	0.58
13:Ad:4:VAL:HG12	13:Ad:133:GLN:HB2	1.85	0.58
13:Af:12:ALA:HB3	13:Af:140:ALA:HB2	1.84	0.58
12:Ag:329:GLN:O	12:Ag:333:VAL:HG23	2.04	0.58
12:Be:86:ARG:HD2	12:Ce:281:TYR:HB2	1.86	0.58
13:Cf:251:ASP:HB2	13:Cf:254:GLU:HG3	1.86	0.58
12:Dc:341:PHE:HB3	12:Dc:348:ASN:HD22	1.69	0.58
12:Dg:313:ALA:O	12:Dg:349:VAL:HA	2.04	0.58
1:0H:305:SER:OG	1:0H:310:ARG:HB3	2.03	0.58
1:0W:89:VAL:HG11	1:0W:125:GLY:HA3	1.86	0.58
1:0W:417:LEU:O	1:0W:421:VAL:HG23	2.04	0.58
1:0I:403:ALA:O	1:0I:407:VAL:HG23	2.04	0.58
1:0K:225:LEU:O	1:0K:229:VAL:HG22	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0B:122:ILE:HG23	1:0B:127:LEU:HG	1.86	0.58
1:0B:245:GLU:OE2	1:0B:285:LEU:HD21	2.03	0.58
1:0F:368:PRO:HD2	44:5M:21:ALA:HB1	1.86	0.58
1:0G:295:VAL:O	1:0G:299:VAL:HG23	2.03	0.58
1:0L:206:VAL:HG21	1:0L:243:LEU:HD22	1.86	0.58
1:0L:265:GLU:HA	1:0L:268:LYS:HE2	1.86	0.58
1:0P:285:LEU:O	1:0P:289:VAL:HG23	2.03	0.58
1:0R:172:LEU:HD22	1:0R:187:ALA:HA	1.85	0.58
1:0R:227:ARG:HG3	1:0R:267:VAL:HG22	1.85	0.58
1:0X:3:THR:HG23	1:0X:5:ALA:N	2.18	0.58
1:0X:227:ARG:HG3	1:0X:267:VAL:HG22	1.85	0.58
1:0Y:265:GLU:HA	1:0Y:268:LYS:HE2	1.85	0.58
1:1C:417:LEU:O	1:1C:421:VAL:HG23	2.04	0.58
2:1F:391:LYS:HE2	2:1F:425:ALA:HB1	1.86	0.58
3:1H:1009:ARG:HD2	48:6F:353:ILE:HD13	1.86	0.58
6:1N:1779:GLN:CG	6:1N:1791:LEU:HD21	2.33	0.58
10:1S:375:GLU:OE1	10:1S:378:LEU:HD12	2.03	0.58
13:1b:362:VAL:HB	13:1b:370:LYS:HB2	1.86	0.58
13:1d:362:VAL:HB	13:1d:370:LYS:HB2	1.86	0.58
24:2T:142:GLY:HA2	13:Ch:120:ASP:OD1	2.04	0.58
24:2T:217:ARG:NH2	12:Cg:260:PHE:HB3	2.19	0.58
13:2b:251:ASP:HB2	13:2b:254:GLU:HG3	1.86	0.58
13:2d:12:ALA:HB3	13:2d:140:ALA:HB2	1.84	0.58
13:2f:251:ASP:HB2	13:2f:254:GLU:HG3	1.85	0.58
30:3F:342:ARG:HD2	12:7g:262:ARG:HH11	1.67	0.58
32:3J:43:ILE:HG23	32:3J:72:ARG:HB2	1.86	0.58
34:3O:107:TYR:CE1	34:3O:111:ILE:HD11	2.39	0.58
34:3O:255:HIS:O	34:3O:259:MET:HG2	2.04	0.58
34:3O:366:VAL:CG1	34:3Y:359:ARG:HE	2.16	0.58
34:3S:290:ALA:O	34:3S:293:GLN:HG3	2.04	0.58
34:3U:96:HIS:O	34:3U:100:ILE:HG13	2.04	0.58
13:3f:80:THR:O	13:3f:84:ARG:NH2	2.37	0.58
13:3h:80:THR:O	13:3h:84:ARG:NH2	2.37	0.58
34:4A:270:ILE:O	34:4A:273:ARG:HG2	2.03	0.58
35:4C:799:LEU:HD13	35:4C:803:LEU:HD11	1.86	0.58
37:4E:1720:LEU:HD12	37:4E:1730:LEU:CD1	2.34	0.58
37:4F:880:ILE:HB	37:4F:926:SER:OG	2.03	0.58
37:4F:1093:VAL:HG11	38:4N:33:LYS:CE	2.33	0.58
37:4F:1322:ARG:HH12	37:4F:1711:PRO:CA	1.97	0.58
37:4G:773:ARG:HD2	37:4G:1636:VAL:HG12	1.85	0.58
37:4G:968:VAL:HB	38:4L:42:ILE:HD11	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1335:MET:HE3	37:4G:1338:PHE:CB	2.34	0.58
37:4H:1136:ARG:HB3	37:4H:1146:SER:HA	1.82	0.58
38:4J:57:VAL:O	38:4J:60:VAL:HG23	2.04	0.58
40:4V:530:ARG:HB3	40:4V:617:GLU:OE2	2.04	0.58
41:4Z:146:LEU:HA	41:4Z:160:GLN:HA	1.86	0.58
13:4b:362:VAL:HB	13:4b:370:LYS:HB2	1.86	0.58
13:4d:80:THR:O	13:4d:84:ARG:NH2	2.37	0.58
12:4e:101:TRP:CD1	12:4e:145:SER:HG	2.21	0.58
41:5A:144:HIS:HA	41:5A:161:PHE:O	2.04	0.58
42:5F:157:LEU:HB3	42:5F:159:VAL:HG23	1.86	0.58
42:5H:135:ARG:NH2	43:5L:33:LEU:CD1	2.67	0.58
43:5K:90:GLN:OE1	43:5K:147:THR:OG1	2.20	0.58
44:5R:87:ASP:O	44:5R:90:ARG:HG2	2.04	0.58
13:5d:362:VAL:HB	13:5d:370:LYS:HB2	1.86	0.58
47:6A:404:GLU:HG3	48:6F:336:ILE:HD13	1.85	0.58
47:6A:1640:ASP:O	47:6A:1642:ALA:N	2.37	0.58
47:6B:212:LEU:HD21	12:Bg:190:HIS:CE1	2.39	0.58
48:6E:963:ILE:HD13	48:6E:965:VAL:HG12	1.86	0.58
50:6L:433:VAL:HG12	50:6L:499:LYS:HZ2	1.69	0.58
51:6M:1362:ARG:HD3	51:6M:1371:VAL:CG2	2.33	0.58
51:6M:1531:GLN:HB3	51:6M:1533:ARG:HH12	1.68	0.58
51:6N:2190:THR:HG22	51:6N:2192:LEU:H	1.68	0.58
12:6a:145:SER:HB2	12:6a:188:SER:OG	2.03	0.58
13:6h:80:THR:O	13:6h:84:ARG:NH2	2.37	0.58
12:7a:21:TRP:HA	12:7a:24:VAL:HG22	1.85	0.58
13:7f:273:ALA:O	13:7f:375:VAL:N	2.27	0.58
13:7h:251:ASP:HB2	13:7h:254:GLU:HG3	1.86	0.58
13:8b:362:VAL:HB	13:8b:370:LYS:HB2	1.86	0.58
13:8d:362:VAL:HB	13:8d:370:LYS:HB2	1.86	0.58
12:9c:66:MET:HA	12:9c:91:VAL:HG23	1.85	0.58
13:9d:407:TRP:CE3	12:9e:255:VAL:HG12	2.39	0.58
12:9e:3:GLU:HB2	12:9e:127:CYS:SG	2.43	0.58
12:Aa:87:PRO:HA	12:Aa:90:PHE:CD1	2.38	0.58
12:Ac:313:ALA:O	12:Ac:349:VAL:HA	2.04	0.58
13:Af:80:THR:O	13:Af:84:ARG:NH2	2.37	0.58
13:Af:269:LEU:N	13:Af:379:SER:O	2.33	0.58
12:Ag:145:SER:OG	12:Ag:188:SER:HB2	2.04	0.58
13:Cb:207:GLU:OE1	13:Cb:304:LYS:NZ	2.30	0.58
12:Cg:232:VAL:HG21	12:Cg:300:MET:SD	2.44	0.58
12:Dc:68:LEU:HD23	12:Dc:143:THR:HG23	1.84	0.58
12:Dc:313:ALA:O	12:Dc:349:VAL:HA	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Dh:251:ASP:HB2	13:Dh:254:GLU:HG3	1.85	0.58
1:0H:33:ASN:O	1:0H:37:LEU:HD13	2.04	0.58
1:0H:262:PHE:CE2	1:0H:264:ASP:HB2	2.38	0.58
1:0J:214:LEU:HD22	1:0J:229:VAL:HG12	1.86	0.58
1:0K:367:THR:HB	1:0K:370:HIS:HD1	1.67	0.58
1:0C:47:ARG:HG3	1:0C:84:ILE:HG12	1.85	0.57
1:0E:67:ARG:HG3	1:0E:105:PHE:HE2	1.68	0.57
1:0E:214:LEU:HD22	1:0E:229:VAL:HG12	1.85	0.57
1:0L:230:CYS:HB2	1:0L:270:HIS:HB3	1.86	0.57
1:0P:256:ILE:HG23	1:0P:271:SER:HB2	1.86	0.57
1:0T:252:ILE:HA	1:0T:255:LYS:HE2	1.83	0.57
1:0V:91:SER:OG	1:0V:99:TYR:HB3	2.04	0.57
1:1A:248:VAL:HG21	1:1A:285:LEU:HD22	1.86	0.57
2:1F:367:VAL:HG21	2:1F:386:LEU:CD2	2.34	0.57
10:1R:201:ARG:NH1	10:1R:252:THR:HG23	2.17	0.57
10:1S:375:GLU:OE1	13:Af:117:LEU:HD11	2.03	0.57
12:1c:313:ALA:O	12:1c:349:VAL:HA	2.04	0.57
12:1e:359:LYS:O	14:2F:13:LYS:HG2	2.03	0.57
13:2d:207:GLU:OE1	13:2d:304:LYS:NZ	2.30	0.57
13:2f:362:VAL:HB	13:2f:370:LYS:HB2	1.86	0.57
12:2g:313:ALA:O	12:2g:349:VAL:HA	2.03	0.57
30:3F:374:ARG:NH2	13:8f:385:GLY:HA3	2.19	0.57
30:3F:452:ASN:HB3	12:7c:402:GLY:CA	2.28	0.57
30:3F:648:GLU:O	30:3F:652:THR:HG23	2.04	0.57
34:3M:489:MET:HG2	34:3M:493:LYS:HD2	1.86	0.57
34:3N:284:PHE:CZ	34:3N:288:MET:HE3	2.39	0.57
34:3O:47:ASN:ND2	34:3T:76:GLU:HB2	2.18	0.57
34:3Q:75:GLN:HG2	34:3Q:419:LEU:HD13	1.85	0.57
34:3Q:270:ILE:O	34:3Q:274:ILE:HG23	2.04	0.57
34:3T:339:GLU:O	34:3T:343:THR:HG23	2.04	0.57
34:3Z:274:ILE:O	34:3Z:277:VAL:HG22	2.03	0.57
12:3g:313:ALA:O	12:3g:349:VAL:HA	2.04	0.57
37:4E:588:PRO:CA	43:5L:17:SER:C	2.66	0.57
37:4E:1617:ALA:HB1	37:4E:1620:ILE:HB	1.85	0.57
37:4F:671:LEU:HB3	38:4K:39:HIS:ND1	2.18	0.57
37:4F:1094:ALA:CA	38:4N:36:VAL:HG11	2.33	0.57
37:4F:1335:MET:CE	38:4N:32:GLU:OE2	2.51	0.57
37:4G:1082:LEU:HD23	37:4G:1101:LEU:CD1	2.34	0.57
37:4G:1335:MET:HB2	37:4G:1338:PHE:H	0.65	0.57
37:4H:1091:VAL:HB	38:4M:34:ALA:CB	2.27	0.57
38:4I:82:TYR:HA	38:4I:85:LEU:HG	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4K:77:VAL:CB	38:4N:57:VAL:HG21	2.33	0.57
38:4N:57:VAL:O	38:4N:60:VAL:HG23	2.04	0.57
12:4a:235:GLY:HA3	12:4a:366:THR:HG21	1.85	0.57
13:4f:362:VAL:HB	13:4f:370:LYS:HB2	1.86	0.57
12:4g:140:GLY:HA2	12:4g:184:ASN:HB2	1.85	0.57
12:4g:170:VAL:HG21	12:4g:201:VAL:HG13	1.85	0.57
42:5H:133:LEU:N	43:5L:50:ILE:CD1	2.64	0.57
43:5I:23:PRO:HG2	43:5I:24:LYS:HD3	1.84	0.57
46:5Z:111:ALA:O	46:5Z:115:VAL:HG23	2.03	0.57
12:5e:87:PRO:HD3	12:6e:281:TYR:CD1	2.39	0.57
47:6A:1083:SER:O	47:6A:1086:LEU:HB3	2.04	0.57
47:6B:137:HIS:CE1	47:6B:142:GLU:HB3	2.38	0.57
47:6B:436:ARG:HD2	47:6B:854:LEU:HB3	1.86	0.57
47:6B:772:ARG:NH2	48:6E:65:GLY:O	2.37	0.57
48:6F:963:ILE:HD13	48:6F:965:VAL:HG12	1.86	0.57
49:6H:68:VAL:HG22	49:6H:159:ALA:HB1	1.85	0.57
51:6M:2190:THR:HG22	51:6M:2192:LEU:H	1.69	0.57
51:6N:1478:TYR:CD2	51:6N:1494:LEU:HD13	2.39	0.57
12:6g:313:ALA:O	12:6g:349:VAL:HA	2.04	0.57
13:7b:251:ASP:HB2	13:7b:254:GLU:HG3	1.86	0.57
12:7g:261:PRO:O	12:7g:262:ARG:HG2	2.03	0.57
13:9d:362:VAL:HB	13:9d:370:LYS:HB2	1.86	0.57
12:9g:274:THR:HG22	12:9g:282:ARG:HD3	1.85	0.57
13:Ab:269:LEU:N	13:Ab:379:SER:O	2.33	0.57
12:Ag:60:VAL:HG21	12:Ag:86:ARG:HH21	1.69	0.57
13:Bd:80:THR:O	13:Bd:84:ARG:NH2	2.37	0.57
12:Be:278:SER:HA	12:Be:281:TYR:CD2	2.39	0.57
1:0A:175:CYS:HB2	1:0A:187:ALA:HB2	1.86	0.57
1:0A:218:VAL:HB	1:0A:255:LYS:HD2	1.86	0.57
1:0A:227:ARG:HG3	1:0A:267:VAL:HG22	1.85	0.57
1:0A:322:ALA:HB2	1:0A:362:GLN:HG2	1.85	0.57
1:0B:169:VAL:O	1:0B:173:VAL:HG23	2.04	0.57
1:0L:395:ASP:OD1	1:0L:396:LEU:N	2.37	0.57
1:0P:33:ASN:O	1:0P:37:LEU:HD13	2.04	0.57
1:0S:346:GLU:HG3	1:0S:347:GLU:CD	2.29	0.57
1:0X:174:LEU:O	1:0X:178:GLU:HG2	2.05	0.57
1:0Z:185:ARG:HD2	1:0Z:224:LYS:CG	2.32	0.57
1:1C:152:ILE:HG23	1:1C:159:LEU:HD12	1.86	0.57
1:1C:387:GLU:OE2	1:1C:400:CYS:HB3	2.04	0.57
2:1F:217:ALA:O	2:1F:263:HIS:NE2	2.34	0.57
7:1O:2312:TRP:HB3	7:1O:2351:LEU:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1Q:760:ARG:O	9:1Q:762:LYS:N	2.36	0.57
10:1S:425:GLY:HA2	10:1S:429:LYS:NZ	2.20	0.57
12:1a:274:THR:HG21	12:1a:279:GLN:HA	1.84	0.57
12:2a:99:ASN:HA	12:2a:142:GLY:H	1.69	0.57
13:2d:362:VAL:HB	13:2d:370:LYS:HB2	1.86	0.57
30:3F:374:ARG:HH22	13:8f:385:GLY:HA3	1.69	0.57
31:3I:278:ALA:C	13:9h:402:ARG:NH2	2.62	0.57
32:3K:340:TYR:O	32:3K:344:VAL:HG23	2.03	0.57
34:3S:81:GLU:CD	34:3S:317:ARG:HE	2.13	0.57
34:3Y:255:HIS:HA	34:3Y:474:TRP:NE1	2.18	0.57
12:3a:330:MET:HG3	12:3a:351:SER:OG	2.04	0.57
12:3g:248:ALA:HA	12:3g:252:LYS:HE3	1.86	0.57
37:4E:542:ARG:CB	42:5H:112:THR:HG23	2.34	0.57
37:4E:543:ASN:OD1	42:5H:112:THR:HG21	2.04	0.57
37:4F:1083:ILE:CA	38:4N:38:VAL:CA	2.82	0.57
37:4F:1304:MET:HB2	37:4F:1316:GLN:HG2	1.87	0.57
37:4F:1323:ILE:N	37:4F:1323:ILE:HG12	2.19	0.57
37:4H:1333:VAL:HG23	37:4H:1342:LEU:CA	2.33	0.57
38:4I:45:ALA:C	38:4I:47:ALA:H	2.12	0.57
40:4T:530:ARG:HB3	40:4T:617:GLU:OE2	2.04	0.57
40:4U:530:ARG:HB3	40:4U:617:GLU:OE2	2.04	0.57
13:4f:80:THR:O	13:4f:84:ARG:NH2	2.37	0.57
13:4h:80:THR:O	13:4h:84:ARG:NH2	2.37	0.57
41:5B:88:TYR:HA	41:5B:103:PHE:HA	1.85	0.57
41:5D:88:TYR:HA	41:5D:103:PHE:HA	1.85	0.57
42:5H:91:TYR:C	43:5L:45:ASN:CB	2.72	0.57
42:5H:92:THR:O	43:5L:44:THR:CB	2.52	0.57
42:5H:103:LEU:O	42:5H:106:VAL:HG12	2.05	0.57
43:5J:23:PRO:HG2	43:5J:24:LYS:HD3	1.85	0.57
43:5L:55:TYR:O	43:5L:58:THR:OG1	2.17	0.57
44:5Q:87:ASP:O	44:5Q:90:ARG:HG2	2.04	0.57
49:6I:154:LEU:CD2	49:6I:388:VAL:HG12	2.34	0.57
49:6I:344:ASP:HB3	49:6I:347:PRO:HG2	1.85	0.57
51:6M:1564:PRO:HA	51:6M:1928:GLN:HE22	1.68	0.57
51:6N:1945:GLY:HA3	51:6N:2078:HIS:CE1	2.39	0.57
13:6b:80:THR:O	13:6b:84:ARG:NH2	2.37	0.57
12:6c:86:ARG:HD2	12:6c:88:ASP:HB3	1.85	0.57
13:6d:80:THR:O	13:6d:84:ARG:NH2	2.37	0.57
13:6f:80:THR:O	13:6f:84:ARG:NH2	2.37	0.57
12:7a:73:MET:HA	12:7a:76:VAL:HG12	1.85	0.57
12:8a:132:GLY:HA3	12:8a:163:MET:HG3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8c:232:VAL:HG21	12:8c:300:MET:SD	2.44	0.57
13:9b:362:VAL:HB	13:9b:370:LYS:HB2	1.86	0.57
13:9h:251:ASP:HB2	13:9h:254:GLU:HG3	1.85	0.57
13:Bb:80:THR:O	13:Bb:84:ARG:NH2	2.37	0.57
12:Bc:135:VAL:HG11	12:Bc:152:ILE:HD11	1.85	0.57
12:Bc:334:GLN:OE1	12:Bc:349:VAL:HG22	2.03	0.57
13:Bf:80:THR:O	13:Bf:84:ARG:NH2	2.37	0.57
13:Bh:62:VAL:HG21	13:Ch:283:HIS:O	2.05	0.57
12:De:337:ASN:HB3	12:De:340:TYR:HD2	1.69	0.57
12:Dg:341:PHE:HB3	12:Dg:348:ASN:HD22	1.69	0.57
13:Dh:80:THR:O	13:Dh:84:ARG:NH2	2.37	0.57
1:0J:225:LEU:O	1:0J:229:VAL:HG22	2.04	0.57
1:0A:52:ASP:H	1:0A:58:GLN:NE2	1.93	0.57
1:0A:87:GLN:CD	47:6B:114:THR:HG21	2.28	0.57
1:0C:335:LYS:HE2	1:0C:338:PRO:HG2	1.86	0.57
1:0F:261:LYS:HB3	39:4Q:140:ALA:HB2	1.84	0.57
1:0G:127:LEU:O	1:0G:131:VAL:HG23	2.04	0.57
1:0L:257:LEU:HD21	1:0L:294:GLY:HA2	1.86	0.57
1:0M:346:GLU:HG3	1:0M:347:GLU:OE1	2.05	0.57
1:0P:20:PHE:O	1:0P:24:VAL:HG23	2.04	0.57
1:0S:95:GLN:N	1:0S:95:GLN:OE1	2.37	0.57
1:0T:91:SER:HA	1:0T:99:TYR:CE2	2.39	0.57
1:0V:21:VAL:HG22	1:0V:49:LEU:HD13	1.87	0.57
1:0V:286:ALA:HB1	1:0V:320:ILE:HG12	1.86	0.57
1:1B:133:CYS:SG	1:1B:141:VAL:HG12	2.43	0.57
1:1B:218:VAL:HG12	1:1B:255:LYS:HB3	1.85	0.57
1:1C:275:VAL:HG21	1:1C:298:LEU:HD11	1.85	0.57
3:1H:922:ALA:HB2	4:1J:251:GLN:HG2	1.86	0.57
5:1M:375:SER:OG	5:1M:376:PRO:HD3	2.04	0.57
6:1N:743:HIS:O	6:1N:744:ARG:HG2	2.04	0.57
12:1g:140:GLY:HA2	12:1g:184:ASN:HB2	1.85	0.57
13:2b:12:ALA:HB3	13:2b:140:ALA:HB2	1.84	0.57
13:2f:12:ALA:HB3	13:2f:140:ALA:HB2	1.84	0.57
28:3C:520:VAL:HG12	28:3C:521:ASP:N	2.19	0.57
30:3F:301:VAL:O	13:6f:264:ARG:CZ	2.52	0.57
32:3J:50:VAL:HG13	32:3J:135:PRO:HB2	1.86	0.57
33:3L:44:PHE:CE2	33:3L:47:LEU:HD12	2.39	0.57
34:3P:251:LEU:HD22	34:3S:492:LEU:CD1	2.33	0.57
34:3P:253:ALA:O	34:3P:256:GLU:HG3	2.04	0.57
34:3P:271:ALA:HA	34:3P:274:ILE:HG12	1.85	0.57
34:3P:449:GLU:HG3	34:3P:453:ARG:NH1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3S:381:ASN:HA	34:3S:384:ASN:ND2	2.19	0.57
34:3X:103:LEU:HD13	34:3X:342:GLN:NE2	2.19	0.57
12:3e:172:SER:OG	12:3e:175:VAL:O	2.21	0.57
13:3f:241:SER:OG	13:3f:250:VAL:O	2.20	0.57
37:4E:581:LEU:CD1	43:5L:33:LEU:CA	2.83	0.57
37:4E:1162:VAL:HG23	37:4E:1299:ARG:NH2	2.18	0.57
37:4G:791:ALA:HB2	37:4G:1623:ARG:HE	1.69	0.57
37:4H:795:LEU:HB3	37:4H:815:ALA:HB2	1.85	0.57
37:4H:1082:LEU:CD1	37:4H:1101:LEU:HD11	2.33	0.57
38:4L:29:LYS:O	38:4L:33:LYS:HD3	2.04	0.57
38:4M:29:LYS:O	38:4M:33:LYS:HD3	2.04	0.57
38:4M:82:TYR:HA	38:4M:85:LEU:HG	1.86	0.57
13:4b:80:THR:O	13:4b:84:ARG:NH2	2.37	0.57
13:4d:362:VAL:HB	13:4d:370:LYS:HB2	1.86	0.57
12:4g:66:MET:HA	12:4g:91:VAL:HG23	1.85	0.57
42:5G:157:LEU:HB3	42:5G:159:VAL:HG23	1.86	0.57
45:5X:165:UNK:C	45:5X:167:UNK:H	2.16	0.57
12:5c:117:LEU:HA	12:5c:120:VAL:HG22	1.85	0.57
13:5d:80:THR:O	13:5d:84:ARG:NH2	2.37	0.57
47:6B:1519:GLN:HG2	47:6B:1520:ASP:OD1	2.03	0.57
48:6E:1022:GLN:NE2	50:6K:399:LEU:HD23	2.19	0.57
49:6G:68:VAL:HG22	49:6G:159:ALA:HB1	1.85	0.57
49:6H:154:LEU:HD22	49:6H:388:VAL:HG12	1.86	0.57
49:6H:295:THR:OG1	49:6H:297:ASP:OD2	2.23	0.57
49:6I:154:LEU:HD22	49:6I:388:VAL:HG12	1.86	0.57
49:6J:154:LEU:HD22	49:6J:388:VAL:HG12	1.86	0.57
49:6J:344:ASP:HB3	49:6J:347:PRO:HG2	1.85	0.57
49:6J:472:TRP:H	49:6J:472:TRP:CD1	2.21	0.57
51:6N:1375:PRO:HB2	51:6N:1379:ASP:OD1	2.04	0.57
13:6f:269:LEU:N	13:6f:379:SER:O	2.33	0.57
54:8b:501:GTP:O1B	12:8c:252:LYS:NZ	2.37	0.57
12:8e:171:PRO:HG3	12:8e:181:GLU:HG2	1.87	0.57
12:Ae:98:GLY:O	13:Af:257:THR:OG1	2.13	0.57
12:Ba:222:PHE:CE2	13:Bb:248:LEU:HG	2.40	0.57
12:Cg:313:ALA:O	12:Cg:349:VAL:HA	2.04	0.57
12:Da:171:PRO:HG3	12:Da:181:GLU:HG2	1.86	0.57
13:Db:80:THR:O	13:Db:84:ARG:NH2	2.37	0.57
1:0W:262:PHE:CE2	1:0W:264:ASP:HB2	2.40	0.57
1:0I:75:LEU:O	1:0I:79:VAL:HG23	2.05	0.57
1:0A:6:VAL:HG13	1:0B:37:LEU:HD23	1.87	0.57
1:0G:163:VAL:HG12	1:0G:168:ALA:HB1	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0G:338:PRO:HA	1:0G:341:VAL:HG22	1.86	0.57
1:0L:88:LEU:O	1:0L:91:SER:HB3	2.04	0.57
1:0M:368:PRO:HG3	1:0M:410:LYS:HD2	1.86	0.57
1:0N:230:CYS:HB2	1:0N:270:HIS:HB3	1.86	0.57
1:0O:163:VAL:HG12	1:0O:168:ALA:HB2	1.85	0.57
1:0Q:172:LEU:O	1:0Q:176:VAL:HG23	2.04	0.57
1:0T:17:ARG:O	1:0T:21:VAL:HG23	2.05	0.57
1:0Y:168:ALA:H	1:0Y:171:LEU:HD12	1.69	0.57
1:1A:196:LYS:HA	1:1A:239:HIS:HE1	1.69	0.57
1:1B:118:ALA:O	1:1B:122:ILE:HG12	2.04	0.57
2:1G:88:LEU:HA	2:1G:91:CYS:SG	2.43	0.57
3:1H:797:PRO:HD3	3:1H:919:GLU:HG2	1.85	0.57
3:1H:951:TYR:HD2	47:6A:388:LEU:CD1	2.17	0.57
6:1N:403:ALA:O	6:1N:407:VAL:HG13	2.05	0.57
7:1O:1866:GLY:HA2	7:1O:1869:ASN:ND2	2.20	0.57
12:1c:21:TRP:HA	12:1c:24:VAL:HG22	1.86	0.57
24:2V:141:ARG:HB2	13:Df:215:ARG:CD	2.26	0.57
13:2b:362:VAL:HB	13:2b:370:LYS:HB2	1.86	0.57
34:3N:49:PHE:CE2	34:3N:53:ILE:HD11	2.38	0.57
34:3N:485:TYR:HD2	34:3N:489:MET:HE2	1.69	0.57
34:3S:352:LEU:HG	34:3S:375:TYR:CE1	2.39	0.57
34:3U:104:ARG:NH1	34:3U:387:VAL:HG13	2.12	0.57
13:3b:269:LEU:N	13:3b:379:SER:O	2.33	0.57
13:3d:241:SER:OG	13:3d:250:VAL:O	2.20	0.57
13:3h:263:PRO:CB	39:4Q:171:SER:O	2.51	0.57
37:4E:584:ALA:N	43:5L:36:TYR:CA	2.65	0.57
37:4F:1084:ARG:HG2	37:4F:1092:LEU:CB	2.21	0.57
37:4F:1283:GLY:O	37:4F:1300:GLU:HB2	2.04	0.57
37:4H:972:PHE:CG	37:4H:972:PHE:C	2.82	0.57
37:4H:1091:VAL:C	38:4M:34:ALA:O	2.47	0.57
37:4H:1304:MET:O	37:4H:1315:VAL:HA	2.04	0.57
38:4K:29:LYS:HA	38:4K:32:GLU:CB	2.34	0.57
38:4N:60:VAL:CG1	38:4N:84:LEU:HA	2.33	0.57
13:4b:224:TYR:CD2	12:4c:245:GLN:HG2	2.39	0.57
12:4g:86:ARG:NH1	12:5g:281:TYR:O	2.37	0.57
12:4g:134:GLN:HA	12:4g:165:LEU:O	2.04	0.57
13:4h:362:VAL:HB	13:4h:370:LYS:HB2	1.86	0.57
42:5E:157:LEU:HB3	42:5E:159:VAL:HG23	1.86	0.57
42:5H:98:PHE:CE1	42:5H:102:MET:HE3	2.40	0.57
43:5K:23:PRO:HG2	43:5K:24:LYS:HD3	1.85	0.57
12:5a:94:GLN:HE22	13:5b:131:GLY:HA3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5a:282:ARG:HH12	12:5a:292:GLN:CD	2.12	0.57
13:5b:176:GLN:O	12:5c:331:LEU:HD13	2.04	0.57
13:5b:401:LYS:HG3	12:5c:344:TRP:CB	2.34	0.57
13:5h:80:THR:O	13:5h:84:ARG:NH2	2.37	0.57
47:6A:438:THR:O	47:6A:441:ALA:N	2.38	0.57
47:6A:1289:VAL:HG12	47:6A:1334:ALA:HB1	1.84	0.57
49:6G:295:THR:OG1	49:6G:297:ASP:OD2	2.23	0.57
49:6J:154:LEU:CD2	49:6J:388:VAL:HG12	2.34	0.57
51:6M:1375:PRO:HB2	51:6M:1379:ASP:OD1	2.04	0.57
51:6N:1240:LYS:HZ1	51:6N:1428:LEU:HD21	1.69	0.57
51:6N:1564:PRO:HA	51:6N:1928:GLN:HE22	1.68	0.57
13:6d:407:TRP:CB	12:6e:255:VAL:HG23	2.35	0.57
13:7b:4:VAL:HG12	13:7b:133:GLN:HB2	1.85	0.57
13:7d:403:ALA:HB2	12:7e:344:TRP:HZ3	1.68	0.57
13:8d:269:LEU:N	13:8d:379:SER:O	2.33	0.57
13:9d:251:ASP:HB2	13:9d:254:GLU:HG3	1.85	0.57
12:9e:86:ARG:HD2	12:Ae:281:TYR:HB2	1.86	0.57
12:9e:394:PHE:CE1	13:9f:261:PRO:HA	2.39	0.57
12:9g:313:ALA:O	12:9g:349:VAL:HA	2.03	0.57
12:Ac:91:VAL:HG21	12:Ac:116:VAL:HG22	1.85	0.57
13:Ad:80:THR:O	13:Ad:84:ARG:NH2	2.37	0.57
12:Ae:87:PRO:HA	12:Ae:90:PHE:HD1	1.70	0.57
13:Ah:4:VAL:HG12	13:Ah:133:GLN:HB2	1.85	0.57
13:Bb:269:LEU:N	13:Bb:379:SER:O	2.33	0.57
13:Bh:80:THR:O	13:Bh:84:ARG:NH2	2.37	0.57
13:Cb:80:THR:O	13:Cb:84:ARG:NH2	2.37	0.57
12:Cc:313:ALA:O	12:Cc:349:VAL:HA	2.04	0.57
12:Ce:171:PRO:HG3	12:Ce:181:GLU:HG2	1.86	0.57
13:Cf:80:THR:O	13:Cf:84:ARG:NH2	2.37	0.57
13:Df:224:TYR:CZ	12:Dg:323:THR:HG21	2.39	0.57
1:0W:346:GLU:HG3	1:0W:347:GLU:CD	2.30	0.57
1:0A:17:ARG:O	1:0A:21:VAL:HG23	2.04	0.57
1:0F:358:TRP:CD1	1:0F:362:GLN:HE22	2.21	0.57
1:0P:262:PHE:CE2	1:0P:264:ASP:HB2	2.39	0.57
1:0S:395:ASP:OD1	1:0S:396:LEU:N	2.38	0.57
1:0U:182:SER:O	1:0U:186:ILE:HG12	2.04	0.57
1:0X:6:VAL:HG13	1:0Y:37:LEU:HD23	1.87	0.57
1:0Y:290:VAL:HG22	1:0Y:295:VAL:HG11	1.86	0.57
1:1A:322:ALA:HB2	1:1A:362:GLN:HG2	1.85	0.57
1:1A:337:LEU:O	1:1A:341:VAL:HG23	2.05	0.57
1:1B:115:PRO:HB3	1:1B:156:ASN:ND2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:142:LYS:NZ	1:1C:178:GLU:OE1	2.36	0.57
5:1L:375:SER:OG	5:1L:376:PRO:HD3	2.04	0.57
6:1N:2468:LYS:HA	6:1N:2494:GLU:HB3	1.87	0.57
10:1R:367:GLY:O	12:Bc:336:LYS:NZ	2.38	0.57
12:1c:171:PRO:HG3	12:1c:181:GLU:HG2	1.85	0.57
13:1h:80:THR:O	13:1h:84:ARG:NH2	2.37	0.57
13:2d:80:THR:O	13:2d:84:ARG:NH2	2.37	0.57
12:2e:247:ASN:O	12:2e:252:LYS:NZ	2.38	0.57
12:2g:341:PHE:HB3	12:2g:348:ASN:HD22	1.69	0.57
29:3E:1191:TRP:NE1	13:5d:112:LYS:HD2	2.19	0.57
31:3I:318:LEU:HD21	13:8h:409:VAL:HG21	1.84	0.57
31:3I:471:ARG:HH12	13:8f:434:GLU:CB	2.14	0.57
32:3J:341:THR:O	32:3J:345:MET:HG3	2.04	0.57
33:3L:184:ASP:HB2	33:3L:187:TRP:CD1	2.39	0.57
34:3P:39:GLU:HG3	34:3P:43:ARG:NE	2.16	0.57
34:3Q:362:PRO:HG2	34:3Q:367:GLY:C	2.30	0.57
34:3T:468:ALA:O	34:3T:471:ARG:HB3	2.05	0.57
34:3Z:491:GLU:HA	34:3Z:494:GLN:OE1	2.05	0.57
12:3c:11:GLN:HE22	13:3d:249:ASN:H	1.52	0.57
13:3d:362:VAL:HB	13:3d:370:LYS:HB2	1.86	0.57
13:3f:269:LEU:N	13:3f:379:SER:O	2.33	0.57
13:3h:362:VAL:HB	13:3h:370:LYS:HB2	1.86	0.57
36:4D:89:ASP:HB2	36:4D:104:LEU:HD23	1.86	0.57
37:4E:580:GLU:O	43:5L:35:LYS:HB2	2.04	0.57
37:4E:773:ARG:HH22	37:4E:1622:PRO:HD2	1.67	0.57
37:4E:1113:VAL:HB	37:4E:1116:ALA:O	2.04	0.57
37:4G:910:LEU:HD12	37:4G:915:SER:CB	2.29	0.57
37:4G:1093:VAL:HG11	37:4G:1093:VAL:HG21	1.86	0.57
37:4H:1074:GLN:OE1	38:4M:38:VAL:CG1	2.51	0.57
37:4H:1144:LEU:HD11	38:4M:29:LYS:HB2	1.86	0.57
38:4J:82:TYR:HA	38:4J:85:LEU:HG	1.86	0.57
38:4K:57:VAL:O	38:4K:60:VAL:HG23	2.04	0.57
38:4M:45:ALA:C	38:4M:47:ALA:H	2.12	0.57
39:4Q:68:ARG:NH2	44:5P:118:GLU:OE1	2.37	0.57
40:4V:407:ARG:HH22	44:5T:7:GLN:CD	2.13	0.57
12:4g:341:PHE:HB3	12:4g:348:ASN:HD22	1.69	0.57
41:5A:21:GLY:HA3	43:5L:188:GLU:CA	2.34	0.57
41:5C:88:TYR:HA	41:5C:103:PHE:HA	1.85	0.57
43:5J:112:PRO:O	44:5T:111:HIS:HD2	1.87	0.57
13:5b:80:THR:O	13:5b:84:ARG:NH2	2.37	0.57
13:5b:100:ALA:HA	12:5c:252:LYS:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:699:LYS:O	48:6F:53:SER:OG	2.20	0.57
47:6B:286:ARG:O	3:6D:197:SER:C	2.46	0.57
47:6B:975:GLU:HB3	47:6B:1012:CYS:SG	2.44	0.57
3:6D:802:VAL:HG13	3:6D:845:ILE:HD13	1.87	0.57
48:6F:126:GLN:HA	48:6F:153:LEU:HD13	1.87	0.57
48:6F:153:LEU:HD23	48:6F:175:LEU:HD21	1.87	0.57
12:6g:306:ARG:HG2	12:6g:340:TYR:HE1	1.69	0.57
12:7c:341:PHE:HB3	12:7c:348:ASN:HD22	1.68	0.57
12:7e:3:GLU:HB3	12:7e:62:ARG:HH21	1.69	0.57
13:8f:273:ALA:O	13:8f:375:VAL:N	2.27	0.57
12:8g:337:ASN:HB3	12:8g:340:TYR:HD2	1.68	0.57
13:9d:207:GLU:OE1	13:9d:304:LYS:NZ	2.30	0.57
13:Bb:362:VAL:HB	13:Bb:370:LYS:HB2	1.86	0.57
12:Bc:68:LEU:HD21	12:Bc:147:MET:SD	2.44	0.57
12:Bc:284:LEU:HD23	12:Bc:362:LYS:HB3	1.86	0.57
12:Be:208:TYR:CZ	12:Be:225:LEU:HD11	2.39	0.57
12:Be:397:TRP:CZ2	13:Bf:260:VAL:HB	2.39	0.57
13:Cb:404:PHE:CD1	12:Cc:259:PRO:HA	2.39	0.57
13:Dd:80:THR:O	13:Dd:84:ARG:NH2	2.37	0.57
13:Df:80:THR:O	13:Df:84:ARG:NH2	2.37	0.57
1:0H:92:LEU:HB2	1:0H:129:SER:HB2	1.87	0.57
1:0K:233:LEU:HD22	1:0K:252:ILE:HD13	1.86	0.57
44:5P:87:ASP:O	44:5P:90:ARG:HG2	2.04	0.57
1:0G:134:LEU:HB3	1:0G:171:LEU:HB3	1.87	0.57
1:0G:346:GLU:HG3	1:0G:347:GLU:CD	2.30	0.57
1:0L:127:LEU:HD22	1:0L:163:VAL:HG12	1.86	0.57
1:0O:225:LEU:O	1:0O:229:VAL:HG22	2.05	0.57
1:0T:34:ILE:HG23	1:0T:68:LEU:HD22	1.87	0.57
1:0U:227:ARG:HD3	1:0U:266:PHE:HB2	1.86	0.57
1:0X:17:ARG:O	1:0X:21:VAL:HG23	2.05	0.57
1:0Z:380:LEU:O	1:0Z:384:VAL:HG23	2.05	0.57
3:1H:526:ASP:OD2	47:6A:350:ARG:NH2	2.37	0.57
3:1H:922:ALA:HA	4:1J:251:GLN:HE21	1.70	0.57
3:1I:610:VAL:HG11	3:1I:652:CYS:SG	2.44	0.57
4:1J:93:GLU:HB3	4:1J:184:PRO:HG2	1.87	0.57
5:1L:540:THR:HA	13:1b:161:TYR:O	2.05	0.57
12:1a:171:PRO:HG3	12:1a:181:GLU:HG2	1.87	0.57
12:1c:134:GLN:HA	12:1c:165:LEU:O	2.04	0.57
13:1d:80:THR:O	13:1d:84:ARG:NH2	2.37	0.57
30:3G:529:PRO:O	30:3G:543:SER:HB2	2.05	0.57
34:3M:500:TYR:HA	34:3M:503:ASN:HD22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3O:259:MET:O	34:3O:263:LYS:HG2	2.05	0.57
34:3U:396:ALA:O	34:3U:400:LEU:HG	2.04	0.57
12:3c:271:THR:HG22	12:3c:365:ALA:O	2.05	0.57
12:3g:145:SER:HB2	12:3g:188:SER:OG	2.05	0.57
34:4B:71:LEU:HD22	34:4B:419:LEU:HD11	1.85	0.57
35:4C:1084:ARG:HH12	37:4E:715:PHE:C	2.08	0.57
37:4E:574:LEU:HD11	42:5H:98:PHE:CD2	2.40	0.57
37:4E:576:ALA:HA	43:5L:30:ARG:C	2.29	0.57
37:4F:773:ARG:HD2	37:4F:1636:VAL:HG12	1.85	0.57
37:4F:1073:LEU:HD11	37:4F:1367:VAL:O	2.05	0.57
37:4F:1083:ILE:HG22	37:4F:1084:ARG:N	2.20	0.57
37:4G:664:TYR:CE2	38:4I:43:ASN:OD1	2.57	0.57
37:4G:913:GLU:HG3	37:4G:915:SER:HB3	1.85	0.57
37:4G:1075:VAL:HG22	37:4G:1075:VAL:O	2.03	0.57
37:4H:1323:ILE:HA	38:4M:25:PRO:CD	2.26	0.57
38:4L:49:ILE:HG22	38:4L:50:ARG:N	2.19	0.57
38:4L:82:TYR:HA	38:4L:85:LEU:HG	1.86	0.57
40:4T:53:VAL:HG23	40:4T:421:ALA:HA	1.87	0.57
40:4T:407:ARG:HH22	44:5S:7:GLN:CD	2.13	0.57
40:4V:53:VAL:HG23	40:4V:421:ALA:HA	1.87	0.57
42:5H:49:ILE:CB	43:5L:144:TYR:HD1	2.17	0.57
42:5H:129:MET:HE3	42:5H:134:LEU:H	1.69	0.57
47:6B:438:THR:O	47:6B:441:ALA:N	2.38	0.57
3:6D:1010:LEU:HD23	48:6E:353:ILE:CG2	2.35	0.57
48:6E:126:GLN:HA	48:6E:153:LEU:HD13	1.87	0.57
49:6H:64:VAL:HG12	49:6H:110:VAL:HG13	1.87	0.57
51:6M:1662:ASP:OD2	51:6M:1663:ALA:N	2.38	0.57
13:Ad:362:VAL:HB	13:Ad:370:LYS:HB2	1.86	0.57
13:Ah:251:ASP:HB2	13:Ah:254:GLU:HG3	1.85	0.57
12:Ba:64:ILE:HD13	12:Ba:120:VAL:HG12	1.87	0.57
12:Ba:171:PRO:HG3	12:Ba:181:GLU:HG2	1.87	0.57
12:Bc:114:ASP:OD1	12:Bc:115:SER:N	2.38	0.57
12:Da:52:ASN:O	12:Da:60:VAL:HG22	2.05	0.57
1:0H:65:LEU:HD22	1:0H:84:ILE:HG21	1.87	0.57
1:0W:282:THR:OG1	1:0W:285:LEU:HG	2.05	0.57
1:0N:380:LEU:HD21	1:0N:407:VAL:HG21	1.86	0.57
1:0P:65:LEU:HD22	1:0P:84:ILE:HG21	1.87	0.57
1:0Q:156:ASN:HB3	1:0Q:159:LEU:HD13	1.86	0.57
1:0X:164:VAL:HG21	1:0X:201:LEU:HD13	1.86	0.57
1:0X:262:PHE:CD1	1:0X:263:PRO:HD2	2.40	0.57
1:0Y:276:ARG:HD2	1:0Y:315:MET:SD	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Z:214:LEU:HD22	1:0Z:229:VAL:HG12	1.86	0.57
1:0Z:335:LYS:HE2	1:0Z:338:PRO:HG2	1.86	0.57
1:1A:217:LEU:HB2	1:1A:229:VAL:HG11	1.87	0.57
1:1B:273:THR:HG23	1:1B:276:ARG:NH2	2.19	0.57
1:1B:282:THR:HB	1:1B:285:LEU:HB2	1.86	0.57
1:1C:30:ASN:HB3	1:1C:32:GLN:NE2	2.20	0.57
2:1D:139:ARG:HH21	2:1D:176:HIS:CG	2.22	0.57
3:1H:835:LEU:HG	3:1H:846:VAL:HG11	1.87	0.57
4:1K:93:GLU:HB3	4:1K:184:PRO:HG2	1.87	0.57
6:1N:1400:ALA:HA	6:1N:1462:ASP:OD2	2.04	0.57
12:1e:171:PRO:HG3	12:1e:181:GLU:HG2	1.87	0.57
12:1e:172:SER:HB2	12:1e:205:GLU:CD	2.30	0.57
12:1e:222:PHE:CZ	13:1f:248:LEU:HG	2.40	0.57
13:1f:80:THR:O	13:1f:84:ARG:NH2	2.37	0.57
13:1f:241:SER:OG	13:1f:250:VAL:O	2.20	0.57
25:2X:26:UNK:CB	13:2f:264:ARG:HD3	2.33	0.57
28:3C:558:ARG:HH11	12:3g:407:GLU:HG2	1.70	0.57
31:3I:148:TYR:CE1	31:3I:172:LEU:HD22	2.40	0.57
34:3O:492:LEU:HB3	34:3O:496:TYR:OH	2.05	0.57
34:3R:122:GLN:HB3	34:3R:368:LEU:HG	1.85	0.57
34:3T:481:LEU:HA	34:3T:484:GLU:HG3	1.86	0.57
34:3U:463:HIS:O	34:3U:467:LEU:HD23	2.03	0.57
13:3b:241:SER:OG	13:3b:250:VAL:O	2.20	0.57
13:3b:362:VAL:HB	13:3b:370:LYS:HB2	1.86	0.57
12:3c:313:ALA:O	12:3c:349:VAL:HA	2.04	0.57
35:4C:1078:LEU:HD12	35:4C:1079:THR:N	2.20	0.57
37:4F:544:MET:HE1	38:4N:69:CYS:O	2.04	0.57
37:4H:952:ASP:CG	37:4H:954:SER:HB3	2.30	0.57
37:4H:972:PHE:CE2	37:4H:974:VAL:CB	2.88	0.57
37:4H:1138:VAL:CB	38:4M:33:LYS:HB2	2.35	0.57
37:4H:1326:ALA:HB3	37:4H:1328:ASP:OD2	2.05	0.57
38:4J:25:PRO:CB	42:5F:96:ALA:CB	2.82	0.57
38:4N:73:PRO:HD2	38:4N:76:PRO:CG	2.28	0.57
40:4U:407:ARG:HH22	44:5U:7:GLN:CD	2.13	0.57
12:4a:396:HIS:NE2	13:4b:261:PRO:O	2.31	0.57
12:4c:86:ARG:NH1	12:5c:281:TYR:O	2.37	0.57
43:5K:33:LEU:HG	43:5K:52:LEU:HD11	1.87	0.57
47:6A:533:GLU:HA	47:6A:536:LEU:HD13	1.87	0.57
47:6A:1497:ALA:O	47:6A:1501:VAL:HG23	2.04	0.57
47:6B:371:MET:HE1	3:6D:933:THR:HG22	1.86	0.57
47:6B:474:TYR:HA	47:6B:477:VAL:HG12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:1497:ALA:O	47:6B:1501:VAL:HG23	2.04	0.57
3:6D:971:ALA:HB1	3:6D:1028:GLN:HG2	1.86	0.57
48:6E:153:LEU:HD23	48:6E:175:LEU:HD21	1.87	0.57
49:6G:154:LEU:CD1	49:6G:392:GLY:HA2	2.34	0.57
51:6M:1493:GLN:HG2	51:6M:1501:THR:CG2	2.34	0.57
51:6N:1662:ASP:OD2	51:6N:1663:ALA:N	2.38	0.57
13:6d:269:LEU:N	13:6d:379:SER:O	2.33	0.57
13:6h:269:LEU:N	13:6h:379:SER:O	2.33	0.57
12:7a:395:LEU:O	12:7a:399:THR:HG23	2.04	0.57
13:8f:269:LEU:N	13:8f:379:SER:O	2.33	0.57
12:9a:350:LYS:NZ	12:9a:352:SER:HB2	2.20	0.57
12:Aa:188:SER:O	12:Aa:192:LEU:HG	2.05	0.57
12:Ac:201:VAL:HG12	12:Ac:266:PHE:O	2.05	0.57
12:Ag:341:PHE:HB3	12:Ag:348:ASN:HD22	1.70	0.57
13:Ah:80:THR:O	13:Ah:84:ARG:NH2	2.37	0.57
12:Ba:84:ILE:HA	12:Ca:281:TYR:OH	2.05	0.57
13:Bf:269:LEU:N	13:Bf:379:SER:O	2.33	0.57
12:Ca:73:MET:HE3	12:Ca:92:PHE:HB3	1.85	0.57
13:Cd:80:THR:O	13:Cd:84:ARG:NH2	2.37	0.57
13:Cd:207:GLU:OE1	13:Cd:304:LYS:NZ	2.30	0.57
13:Cf:207:GLU:OE1	13:Cf:304:LYS:NZ	2.30	0.57
13:Ch:80:THR:O	13:Ch:84:ARG:NH2	2.37	0.57
1:0I:159:LEU:O	1:0I:163:VAL:HG23	2.02	0.57
1:0A:94:GLU:CD	1:0A:99:TYR:HE2	2.13	0.57
1:0A:262:PHE:CD1	1:0A:263:PRO:HD2	2.40	0.57
1:0D:262:PHE:CE2	1:0D:264:ASP:HB2	2.39	0.57
1:0E:127:LEU:HD22	1:0E:163:VAL:HG12	1.85	0.57
1:0E:286:ALA:HB1	1:0E:320:ILE:HG12	1.87	0.57
1:0L:417:LEU:O	1:0L:421:VAL:HG23	2.05	0.57
1:0N:21:VAL:HG22	1:0N:49:LEU:HD13	1.85	0.57
1:0Q:3:THR:O	1:0Q:7:LEU:HG	2.05	0.57
1:0S:295:VAL:O	1:0S:299:VAL:HG23	2.05	0.57
1:0X:227:ARG:HD3	1:0X:266:PHE:HB2	1.87	0.57
1:0X:295:VAL:O	1:0X:299:VAL:HG23	2.05	0.57
1:0Y:248:VAL:HA	1:0Y:253:PHE:HE2	1.69	0.57
1:0Z:47:ARG:HG3	1:0Z:84:ILE:HG12	1.85	0.57
1:0Z:201:LEU:O	1:0Z:205:VAL:HG23	2.04	0.57
1:1C:379:CYS:O	1:1C:383:LEU:HG	2.04	0.57
3:1I:625:ALA:HA	3:1I:628:ARG:HG2	1.86	0.57
4:1K:318:ASN:ND2	4:1K:392:LYS:O	2.32	0.57
6:1N:1160:ALA:O	6:1N:1164:VAL:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1N:1170:HIS:CD2	6:1N:1174:MET:HG2	2.40	0.57
6:1N:2028:THR:HG21	9:1Q:376:LEU:HB3	1.86	0.57
12:1a:208:TYR:CZ	12:1a:225:LEU:HD11	2.40	0.57
13:1b:80:THR:O	13:1b:84:ARG:NH2	2.37	0.57
12:1g:313:ALA:O	12:1g:349:VAL:HA	2.05	0.57
24:2S:151:PHE:O	13:Db:176:GLN:NE2	2.22	0.57
13:2h:207:GLU:OE1	13:2h:304:LYS:NZ	2.30	0.57
30:3G:680:ARG:NH2	13:7d:438:GLU:OE1	2.37	0.57
31:3H:123:TYR:CE2	31:3H:127:LEU:HD11	2.39	0.57
33:3L:68:ARG:HA	13:6d:159:VAL:HG13	1.87	0.57
34:3M:352:LEU:HG	34:3M:375:TYR:CE1	2.40	0.57
34:3O:273:ARG:O	34:3O:277:VAL:HG23	2.05	0.57
34:3Q:107:TYR:CE1	34:3Q:111:ILE:HD11	2.40	0.57
34:3Q:253:ALA:O	34:3Q:256:GLU:HG3	2.05	0.57
34:3X:93:VAL:HG21	34:3X:401:VAL:HG22	1.87	0.57
12:3e:50:TYR:OH	12:3e:237:THR:OG1	1.95	0.57
13:3f:362:VAL:HB	13:3f:370:LYS:HB2	1.86	0.57
35:4C:420:ASN:HB2	35:4C:461:MET:HE3	1.87	0.57
36:4D:247:VAL:HB	36:4D:275:ASN:HD21	1.70	0.57
37:4E:581:LEU:N	43:5L:35:LYS:HE2	2.19	0.57
37:4F:582:GLN:C	43:5K:30:ARG:HD2	2.29	0.57
37:4F:672:PHE:O	38:4K:39:HIS:ND1	2.38	0.57
37:4F:1301:ASP:HB3	37:4F:1303:VAL:HG22	1.87	0.57
37:4G:1083:ILE:CD1	38:4L:31:ALA:HB1	2.35	0.57
37:4H:1073:LEU:N	38:4M:41:LYS:NZ	2.52	0.57
37:4H:1138:VAL:HB	38:4M:33:LYS:CB	2.33	0.57
38:4J:24:THR:OG1	42:5F:97:HIS:HA	2.04	0.57
38:4L:29:LYS:HA	38:4L:32:GLU:CB	2.34	0.57
38:4M:29:LYS:O	38:4M:32:GLU:HB3	2.05	0.57
40:4U:53:VAL:HG23	40:4U:421:ALA:HA	1.87	0.57
42:5H:85:CYS:SG	43:5L:47:LYS:HE3	2.44	0.57
43:5J:42:TYR:CD2	43:5J:42:TYR:N	2.59	0.57
13:5f:80:THR:O	13:5f:84:ARG:NH2	2.37	0.57
13:5f:269:LEU:N	13:5f:379:SER:O	2.33	0.57
12:5g:313:ALA:O	12:5g:349:VAL:HA	2.05	0.57
47:6A:1647:GLN:NE2	47:6A:1673:TRP:H	2.03	0.57
47:6B:1647:GLN:NE2	47:6B:1673:TRP:H	2.03	0.57
3:6D:12:ALA:HB1	3:6D:46:ASN:HD21	1.70	0.57
3:6D:1010:LEU:CD2	48:6E:353:ILE:HG23	2.34	0.57
49:6G:154:LEU:HD22	49:6G:388:VAL:HG12	1.86	0.57
49:6H:154:LEU:CD1	49:6H:392:GLY:HA2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6I:68:VAL:HG22	49:6I:159:ALA:HB1	1.85	0.57
49:6I:154:LEU:CD1	49:6I:392:GLY:HA2	2.34	0.57
49:6I:344:ASP:HB3	49:6I:347:PRO:HD2	1.87	0.57
50:6K:150:VAL:HB	50:6K:154:PHE:CE1	2.39	0.57
50:6K:154:PHE:CD2	50:6K:158:GLN:HB2	2.40	0.57
50:6L:154:PHE:CD2	50:6L:158:GLN:HB2	2.40	0.57
51:6N:1437:LEU:HD23	51:6N:1438:ARG:N	2.20	0.57
12:7a:238:CYS:SG	12:7a:316:LEU:HD21	2.44	0.57
13:7b:269:LEU:N	13:7b:379:SER:O	2.33	0.57
12:7c:135:VAL:HG11	12:7c:152:ILE:HD11	1.85	0.57
12:7e:3:GLU:HB3	12:7e:62:ARG:NH2	2.19	0.57
12:9e:108:GLU:O	12:9e:111:GLU:HG2	2.04	0.57
13:Cd:362:VAL:HB	13:Cd:370:LYS:HB2	1.86	0.57
1:0J:72:SER:HB3	1:0J:75:LEU:HG	1.87	0.57
1:0J:315:MET:CE	1:0J:355:ALA:HB1	2.32	0.57
1:0I:349:GLU:HB3	1:0I:351:HIS:CE1	2.40	0.57
1:0K:346:GLU:HG3	1:0K:347:GLU:OE1	2.04	0.57
1:0A:96:ASN:ND2	4:1J:71:ASP:OD1	2.38	0.57
1:0B:218:VAL:HG12	1:0B:255:LYS:HB3	1.87	0.57
1:0E:113:HIS:HB2	1:0E:117:LEU:HD12	1.87	0.57
1:0F:346:GLU:HG3	1:0F:347:GLU:CD	2.30	0.57
1:0N:93:SER:HB2	31:3H:166:ARG:HH12	1.70	0.57
1:0N:164:VAL:HG21	1:0N:201:LEU:HD22	1.87	0.57
1:0O:349:GLU:HB3	1:0O:351:HIS:CE1	2.40	0.57
1:0R:52:ASP:H	1:0R:58:GLN:NE2	1.94	0.57
1:0S:217:LEU:HB2	1:0S:229:VAL:HG11	1.87	0.57
1:0S:417:LEU:O	1:0S:421:VAL:HG23	2.05	0.57
1:0U:337:LEU:O	1:0U:341:VAL:HG23	2.05	0.57
1:0V:65:LEU:HD22	1:0V:84:ILE:HG21	1.86	0.57
1:0Y:122:ILE:HG23	1:0Y:127:LEU:HG	1.87	0.57
1:1C:118:ALA:HB1	1:1C:152:ILE:HG12	1.87	0.57
3:1H:560:PRO:HD3	3:1H:574:LEU:HD13	1.86	0.57
3:1H:1043:GLU:HG3	3:1H:1047:PHE:CZ	2.40	0.57
6:1N:2029:GLY:O	6:1N:2033:LEU:HG	2.05	0.57
10:1R:334:PRO:HG3	13:Ab:415:GLU:HG2	1.87	0.57
10:1R:409:TYR:HB2	13:Bb:326:LYS:HE2	1.87	0.57
10:1S:432:THR:HB	12:Ae:83:GLN:HE22	1.69	0.57
13:1d:283:HIS:ND1	12:Da:86:ARG:NH1	2.52	0.57
14:2G:83:SER:OG	12:Ce:224:ASP:OD2	2.21	0.57
23:2R:8:UNK:CB	13:3d:339:ARG:HD2	2.35	0.57
24:2V:151:PHE:HE2	12:Dg:328:GLU:O	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2c:313:ALA:O	12:2c:349:VAL:HA	2.04	0.57
30:3F:297:PHE:CD1	13:6f:434:GLU:HG2	2.40	0.57
30:3G:543:SER:OG	30:3G:546:GLU:HG3	2.03	0.57
32:3K:389:LEU:HD22	32:3K:394:GLU:HB3	1.87	0.57
34:3N:200:ALA:O	34:3N:204:MET:HG2	2.04	0.57
34:3O:99:ARG:NE	34:3O:103:LEU:HD21	2.20	0.57
34:3O:471:ARG:HG2	34:3O:475:MET:HE1	1.85	0.57
34:3S:74:LEU:HD21	34:3S:191:ALA:HB1	1.86	0.57
34:3V:403:ARG:O	34:3V:407:MET:HG3	2.05	0.57
34:3Y:488:ARG:NE	34:4A:252:GLU:OE2	2.34	0.57
37:4E:581:LEU:CB	43:5L:33:LEU:C	2.75	0.57
37:4E:826:LEU:HB2	37:4E:864:VAL:HG11	1.86	0.57
37:4F:669:GLU:OE1	37:4F:671:LEU:HD11	2.05	0.57
37:4G:1083:ILE:CG1	37:4G:1352:PRO:HB3	2.18	0.57
37:4G:1323:ILE:HG12	38:4L:26:GLU:OE2	2.03	0.57
37:4H:533:MET:O	37:4H:537:LEU:HG	2.04	0.57
37:4H:757:LEU:HD12	37:4H:810:VAL:HG23	1.87	0.57
38:4I:49:ILE:HG22	38:4I:50:ARG:N	2.19	0.57
38:4J:45:ALA:C	38:4J:47:ALA:H	2.12	0.57
38:4L:29:LYS:O	38:4L:32:GLU:HB3	2.05	0.57
38:4M:57:VAL:O	38:4M:60:VAL:HG23	2.04	0.57
12:4c:179:VAL:HG23	13:4d:352:LYS:HB2	1.87	0.57
42:5H:89:ALA:HB1	42:5H:93:GLU:CB	2.34	0.57
47:6A:474:TYR:HA	47:6A:477:VAL:HG12	1.86	0.57
47:6A:975:GLU:HB3	47:6A:1012:CYS:SG	2.44	0.57
47:6B:146:SER:O	47:6B:150:ARG:HG3	2.05	0.57
47:6B:212:LEU:HD21	12:Bg:190:HIS:HE1	1.69	0.57
47:6B:533:GLU:HA	47:6B:536:LEU:HD13	1.87	0.57
47:6B:1097:ALA:O	47:6B:1100:GLU:HB2	2.04	0.57
3:6D:550:PHE:CE2	3:6D:600:VAL:HG13	2.40	0.57
48:6F:737:ARG:HB3	49:6H:14:LYS:NZ	2.20	0.57
49:6G:64:VAL:HG12	49:6G:110:VAL:HG13	1.87	0.57
49:6G:154:LEU:CD2	49:6G:388:VAL:HG12	2.34	0.57
50:6L:180:PRO:HB2	50:6L:214:SER:OG	2.04	0.57
50:6L:292:SER:N	50:6L:298:ASP:OD2	2.30	0.57
51:6M:1437:LEU:HD23	51:6M:1438:ARG:N	2.20	0.57
12:7c:323:THR:HA	12:7c:326:VAL:HG22	1.86	0.57
12:9a:172:SER:HB3	12:9a:205:GLU:CD	2.30	0.57
13:9b:251:ASP:HB2	13:9b:254:GLU:HG3	1.86	0.57
12:9c:235:GLY:HA3	12:9c:366:THR:HG21	1.86	0.57
12:9e:86:ARG:HD2	12:Ae:281:TYR:CB	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:9f:251:ASP:HB2	13:9f:254:GLU:HG3	1.85	0.57
12:Ag:313:ALA:O	12:Ag:349:VAL:HA	2.05	0.57
12:Ba:208:TYR:CE1	13:Bb:326:LYS:HB2	2.40	0.57
13:Bf:406:HIS:CD2	12:Bg:261:PRO:HD3	2.40	0.57
13:Bh:269:LEU:N	13:Bh:379:SER:O	2.33	0.57
13:Cb:362:VAL:HB	13:Cb:370:LYS:HB2	1.86	0.57
13:Cf:362:VAL:HB	13:Cf:370:LYS:HB2	1.86	0.57
12:Cg:341:PHE:HB3	12:Cg:348:ASN:HD22	1.69	0.57
13:Ch:362:VAL:HB	13:Ch:370:LYS:HB2	1.86	0.57
12:Da:23:VAL:HA	12:Da:26:ASP:OD1	2.05	0.57
12:Dg:174:LYS:HG3	12:Dg:175:VAL:HG23	1.87	0.57
1:0A:12:ARG:O	1:0A:16:GLU:HG2	2.05	0.57
1:0A:164:VAL:HG21	1:0A:201:LEU:HD13	1.86	0.57
1:0B:286:ALA:O	1:0B:290:VAL:HG23	2.05	0.57
1:0F:89:VAL:HG11	1:0F:125:GLY:HA3	1.86	0.57
1:0G:262:PHE:CE2	1:0G:264:ASP:HB2	2.40	0.57
1:0G:282:THR:OG1	1:0G:285:LEU:HG	2.05	0.57
1:0Q:118:ALA:HB1	1:0Q:152:ILE:HG12	1.87	0.57
1:0R:128:ASP:OD1	1:0R:129:SER:N	2.38	0.57
1:0R:227:ARG:HD3	1:0R:266:PHE:HB2	1.86	0.57
1:0T:173:VAL:HG22	1:0T:210:ALA:HB2	1.86	0.57
1:0V:262:PHE:HE2	1:0V:264:ASP:HB3	1.68	0.57
1:0X:52:ASP:H	1:0X:58:GLN:NE2	1.93	0.57
1:0Y:80:VAL:HG22	1:0Y:85:LEU:HD11	1.87	0.57
1:1C:70:ASN:HA	1:1C:113:HIS:CE1	2.40	0.57
2:1F:157:GLY:HA2	3:1H:96:ALA:HB2	1.85	0.57
3:1H:206:ASP:H	47:6A:291:GLN:NE2	2.03	0.57
4:1J:102:PHE:HZ	47:6A:356:VAL:CG2	2.16	0.57
4:1J:200:VAL:HB	4:1J:282:LEU:HG	1.87	0.57
4:1J:318:ASN:ND2	4:1J:392:LYS:O	2.32	0.57
5:1L:453:VAL:N	5:1L:459:GLN:HE22	2.02	0.57
6:1N:7:LEU:HD22	6:1N:26:VAL:HG13	1.86	0.57
10:1R:38:PRO:O	10:1R:39:MET:O	2.23	0.57
10:1S:443:TYR:HH	12:Be:26:ASP:HB2	1.68	0.57
12:1c:177:ASP:O	13:1d:352:LYS:HA	2.05	0.57
14:2F:113:VAL:HG12	13:Bb:243:ARG:O	2.05	0.57
24:2T:195:ARG:O	24:2T:199:ARG:HG2	2.05	0.57
24:2V:156:LYS:HE3	24:2V:160:ARG:HH22	1.70	0.57
12:2a:256:ASN:HB3	12:2a:350:LYS:HG3	1.87	0.57
13:2b:80:THR:O	13:2b:84:ARG:NH2	2.37	0.57
13:2h:80:THR:O	13:2h:84:ARG:NH2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:3F:614:THR:O	30:3F:618:LYS:HE3	2.05	0.57
31:3I:239:GLU:O	31:3I:243:VAL:HG23	2.05	0.57
33:3L:197:LEU:HD13	12:7e:389:PHE:CD2	2.39	0.57
34:3M:74:LEU:HD21	34:3M:191:ALA:HB1	1.86	0.57
34:3P:435:SER:HA	34:3Z:417:SER:OG	2.05	0.57
34:3W:209:THR:HA	34:3Y:296:SER:HB3	1.87	0.57
12:3e:3:GLU:HB2	12:3e:127:CYS:SG	2.45	0.57
34:4A:270:ILE:HA	34:4A:273:ARG:NE	2.20	0.57
36:4D:174:SER:HB2	36:4D:200:ASP:HB3	1.87	0.57
37:4E:575:SER:O	43:5L:30:ARG:O	2.23	0.57
37:4E:584:ALA:CB	37:4E:586:PHE:N	2.68	0.57
37:4E:1108:PHE:CG	43:5L:137:ARG:O	2.58	0.57
37:4G:679:ASP:O	37:4G:683:VAL:HG23	2.05	0.57
37:4G:1082:LEU:HD12	38:4L:35:ALA:O	2.05	0.57
37:4G:1136:ARG:CA	37:4G:1145:VAL:O	2.52	0.57
37:4H:1138:VAL:N	38:4M:33:LYS:CB	2.68	0.57
37:4H:1341:ILE:HG23	38:4M:31:ALA:HB2	1.85	0.57
38:4J:29:LYS:HA	38:4J:32:GLU:CB	2.34	0.57
38:4M:29:LYS:HA	38:4M:32:GLU:CB	2.34	0.57
39:4S:4:LEU:CD2	43:5K:137:ARG:HD3	2.35	0.57
42:5H:41:TYR:OH	42:5H:42:ARG:NH1	2.37	0.57
43:5L:58:THR:HG22	43:5L:130:TRP:CH2	2.38	0.57
44:5S:41:ARG:NH2	44:5S:49:GLU:HG2	2.13	0.57
12:5c:36:TYR:CG	12:5c:44:LEU:HD21	2.40	0.57
47:6A:181:ARG:C	47:6A:181:ARG:HD2	2.30	0.57
47:6A:1499:ASP:O	47:6A:1503:LYS:HG2	2.05	0.57
47:6B:1499:ASP:O	47:6B:1503:LYS:HG2	2.05	0.57
47:6B:1826:PRO:HD2	47:6B:1914:MET:SD	2.45	0.57
49:6J:116:ILE:HD12	49:6J:139:LEU:CD2	2.34	0.57
49:6J:344:ASP:HB3	49:6J:347:PRO:HD2	1.87	0.57
50:6K:180:PRO:HB2	50:6K:214:SER:OG	2.04	0.57
50:6K:292:SER:N	50:6K:298:ASP:OD2	2.30	0.57
51:6M:2034:PHE:HE2	51:6M:2036:LEU:HD22	1.70	0.57
51:6N:1493:GLN:HG2	51:6N:1501:THR:CG2	2.34	0.57
12:7g:341:PHE:HB3	12:7g:348:ASN:HD22	1.69	0.57
13:7h:362:VAL:HB	13:7h:370:LYS:HB2	1.86	0.57
13:Ab:362:VAL:HB	13:Ab:370:LYS:HB2	1.86	0.57
13:Ad:251:ASP:HB2	13:Ad:254:GLU:HG3	1.85	0.57
13:Af:251:ASP:HB2	13:Af:254:GLU:HG3	1.86	0.57
13:Bd:269:LEU:N	13:Bd:379:SER:O	2.33	0.57
12:Be:83:GLN:O	12:Ce:281:TYR:OH	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bf:176:GLN:O	12:Bg:331:LEU:HD13	2.05	0.57
13:Bf:362:VAL:HB	13:Bf:370:LYS:HB2	1.86	0.57
12:Ce:222:PHE:CE2	13:Cf:248:LEU:HG	2.40	0.57
12:De:99:ASN:HD22	13:Df:258:ASN:HD21	1.51	0.57
1:0H:184:LYS:HB3	1:0H:217:LEU:HD21	1.87	0.57
1:0K:70:ASN:HA	1:0K:113:HIS:CE1	2.40	0.57
1:0B:287:GLN:NE2	1:0B:326:THR:HG23	2.19	0.56
1:0M:138:ASP:O	1:0M:141:VAL:HG22	2.05	0.56
1:0M:185:ARG:HH11	1:0M:224:LYS:HD2	1.70	0.56
1:0O:227:ARG:HD3	1:0O:266:PHE:HB2	1.86	0.56
1:0U:417:LEU:O	1:0U:421:VAL:HG23	2.05	0.56
1:0V:380:LEU:HD21	1:0V:407:VAL:HG21	1.85	0.56
1:0X:88:LEU:O	1:0X:91:SER:HB3	2.04	0.56
1:1A:189:SER:HB3	5:1L:586:ASP:OD1	2.05	0.56
1:1B:210:ALA:O	1:1B:214:LEU:HG	2.05	0.56
2:1D:517:ALA:HB1	6:1N:1993:GLY:N	2.18	0.56
3:1H:809:TRP:CD2	3:1H:848:ARG:NH2	2.72	0.56
4:1J:26:GLN:NE2	4:1J:84:GLU:HA	2.19	0.56
4:1K:200:VAL:HB	4:1K:282:LEU:HG	1.86	0.56
14:2F:85:PHE:HD2	12:Ca:217:LEU:HD11	1.68	0.56
12:2c:64:ILE:HD13	12:2c:120:VAL:HG12	1.85	0.56
13:2f:80:THR:O	13:2f:84:ARG:NH2	2.37	0.56
30:3G:569:ILE:HG22	30:3G:573:LYS:HE3	1.86	0.56
32:3J:340:TYR:O	32:3J:344:VAL:HG23	2.04	0.56
32:3K:183:VAL:HB	32:3K:221:VAL:HB	1.87	0.56
32:3K:407:ARG:O	32:3K:411:VAL:HG23	2.05	0.56
33:3L:36:GLU:O	33:3L:39:ARG:HG2	2.05	0.56
34:3M:490:GLN:HA	34:3M:493:LYS:HD3	1.86	0.56
34:3O:120:GLU:HA	34:3O:123:GLN:OE1	2.05	0.56
34:3O:353:LEU:HD13	34:3O:375:TYR:CZ	2.40	0.56
34:3Q:443:ARG:HG2	34:3Q:447:ASP:OD1	2.05	0.56
34:3Q:492:LEU:CD1	34:3T:251:LEU:HD21	2.34	0.56
34:3T:284:PHE:CZ	34:3T:288:MET:HE3	2.40	0.56
34:3W:477:GLU:HG2	37:4H:1612:THR:HG22	1.85	0.56
13:3d:269:LEU:N	13:3d:379:SER:O	2.33	0.56
35:4C:298:VAL:HB	35:4C:386:LEU:HD11	1.86	0.56
35:4C:805:PRO:HA	35:4C:857:ALA:HB3	1.87	0.56
37:4E:579:THR:CG2	37:4E:579:THR:C	2.77	0.56
37:4E:582:GLN:CD	43:5L:34:ALA:HA	2.29	0.56
37:4F:968:VAL:O	38:4N:42:ILE:HD11	2.05	0.56
37:4F:1083:ILE:HG13	37:4F:1358:LEU:HD12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1083:ILE:HB	38:4N:38:VAL:HG22	1.87	0.56
37:4F:1339:ALA:C	38:4N:31:ALA:CB	2.70	0.56
37:4F:1341:ILE:HG12	37:4F:1350:ILE:CD1	2.34	0.56
37:4G:431:ALA:CA	37:4G:434:TYR:H	2.18	0.56
37:4H:1074:GLN:CG	38:4M:38:VAL:HG11	2.34	0.56
37:4H:1084:ARG:NE	38:4M:37:GLY:HA2	2.20	0.56
40:4V:517:PRO:O	40:4V:520:GLU:HG3	2.05	0.56
12:4c:341:PHE:HB3	12:4c:348:ASN:HD22	1.69	0.56
12:4e:86:ARG:HG3	12:5e:281:TYR:HB3	1.87	0.56
12:4e:285:THR:HG22	12:4e:287:PRO:CD	2.31	0.56
42:5H:129:MET:CE	42:5H:134:LEU:N	2.68	0.56
43:5J:33:LEU:HG	43:5J:52:LEU:HD11	1.87	0.56
43:5L:33:LEU:HG	43:5L:52:LEU:HD11	1.87	0.56
13:5d:269:LEU:N	13:5d:379:SER:O	2.33	0.56
13:5h:269:LEU:N	13:5h:379:SER:O	2.33	0.56
47:6A:146:SER:O	47:6A:150:ARG:HG3	2.04	0.56
48:6E:154:ASP:OD1	48:6E:155:MET:N	2.38	0.56
48:6E:359:GLY:HA2	48:6E:655:LEU:HD13	1.87	0.56
48:6E:833:HIS:HD1	48:6E:835:GLU:CD	2.12	0.56
49:6H:344:ASP:HB3	49:6H:347:PRO:HG2	1.85	0.56
49:6I:116:ILE:HD12	49:6I:139:LEU:CD2	2.34	0.56
50:6K:56:ALA:O	50:6K:60:VAL:HG23	2.05	0.56
50:6L:150:VAL:HB	50:6L:154:PHE:CE1	2.39	0.56
51:6N:2034:PHE:HE2	51:6N:2036:LEU:HD22	1.70	0.56
12:7c:67:ASP:OD2	12:7c:72:THR:OG1	2.21	0.56
12:8e:60:VAL:HG11	12:8e:86:ARG:HH11	1.69	0.56
12:8e:207:LEU:HB3	12:8e:225:LEU:HD22	1.85	0.56
12:Aa:73:MET:HE3	12:Aa:92:PHE:HB3	1.86	0.56
13:Ab:251:ASP:HB2	13:Ab:254:GLU:HG3	1.85	0.56
12:Ba:278:SER:HA	12:Ba:281:TYR:CD2	2.39	0.56
12:Ca:70:PRO:HB2	13:Cb:1:MET:HE2	1.87	0.56
1:0A:227:ARG:HD3	1:0A:266:PHE:HB2	1.87	0.56
1:0E:65:LEU:HD22	1:0E:84:ILE:HG21	1.87	0.56
1:0E:242:ASP:O	1:0E:246:VAL:HG23	2.04	0.56
1:0G:214:LEU:HD22	1:0G:229:VAL:HG12	1.86	0.56
1:0M:198:THR:HG22	1:0M:200:GLU:H	1.68	0.56
1:0Q:381:ALA:HA	1:0Q:423:ARG:HH21	1.69	0.56
1:0R:282:THR:HG23	1:0R:283:PRO:HD2	1.86	0.56
1:0R:341:VAL:HG21	1:0R:377:THR:HB	1.86	0.56
1:0V:127:LEU:HD13	1:0V:163:VAL:HA	1.87	0.56
1:0X:343:ALA:O	1:0X:347:GLU:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Y:45:LEU:C	1:0Y:48:PRO:HD2	2.31	0.56
1:1B:72:SER:HB3	1:1B:75:LEU:HG	1.87	0.56
1:1B:253:PHE:HA	1:1B:256:ILE:HD12	1.86	0.56
1:1C:225:LEU:O	1:1C:229:VAL:HG22	2.06	0.56
2:1D:189:LEU:O	2:1D:193:VAL:HG23	2.04	0.56
3:1H:1036:GLN:HA	3:1H:1039:GLN:OE1	2.05	0.56
3:1I:854:LEU:HD21	3:1I:863:PHE:HB2	1.86	0.56
4:1K:26:GLN:NE2	4:1K:84:GLU:HA	2.19	0.56
6:1N:349:ARG:NH2	6:1N:381:TRP:CG	2.74	0.56
7:1O:1915:VAL:HG21	7:1O:1996:TYR:OH	2.04	0.56
10:1S:365:VAL:H	12:Bg:337:ASN:CG	2.11	0.56
10:1S:397:PRO:CG	13:Bf:338:LYS:HA	2.34	0.56
10:1S:414:ASP:CG	13:Bf:327:ASP:CG	2.73	0.56
10:1S:441:HIS:CD2	10:1S:443:TYR:O	2.56	0.56
12:1c:284:LEU:HD23	12:1c:362:LYS:HD3	1.86	0.56
12:1e:281:TYR:OH	13:Db:85:GLN:HA	2.05	0.56
12:1g:91:VAL:HG11	12:1g:116:VAL:HG22	1.87	0.56
16:2I:66:UNK:N	12:Bc:92:PHE:HE2	2.03	0.56
24:2V:219:ALA:HB2	12:Ce:417:ASP:CG	2.29	0.56
31:3H:123:TYR:HE1	31:3H:197:GLU:HG2	1.70	0.56
33:3L:109:ILE:HG22	33:3L:141:ARG:HD2	1.86	0.56
34:3N:48:HIS:NE2	34:3N:222:LEU:HG	2.20	0.56
34:3O:118:HIS:CE1	34:3O:356:PHE:CE2	2.93	0.56
34:3P:472:ASP:HA	34:3P:475:MET:HE3	1.87	0.56
34:3R:276:GLU:HG3	34:3R:459:ILE:HD12	1.87	0.56
34:3S:105:GLN:O	34:3S:109:LEU:HG	2.04	0.56
34:3V:352:LEU:HD11	34:3V:382:LEU:HD21	1.87	0.56
12:3a:397:TRP:HZ2	13:3b:260:VAL:HB	1.70	0.56
34:4A:63:SER:HA	34:4A:66:LYS:HE3	1.87	0.56
35:4C:788:VAL:HB	35:4C:876:HIS:O	2.05	0.56
36:4D:139:ARG:NH2	36:4D:140:ARG:HH21	2.03	0.56
36:4D:214:GLY:O	36:4D:223:THR:N	2.38	0.56
37:4E:583:GLU:CB	43:5L:36:TYR:HA	2.34	0.56
37:4E:586:PHE:CD2	43:5L:10:LEU:CD2	2.86	0.56
37:4E:1719:LEU:HD22	37:4E:1754:TYR:HB3	1.87	0.56
37:4G:1075:VAL:HG21	37:4G:1352:PRO:HB2	1.87	0.56
37:4G:1136:ARG:HA	37:4G:1145:VAL:O	2.04	0.56
37:4G:1136:ARG:CZ	37:4G:1146:SER:HB3	2.35	0.56
37:4G:1323:ILE:CB	38:4L:26:GLU:OE2	2.52	0.56
37:4H:515:TYR:HB2	37:4H:539:GLN:HG2	1.86	0.56
37:4H:598:LEU:HD23	37:4H:1775:LEU:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:826:LEU:HD13	38:4M:82:TYR:CE1	2.40	0.56
38:4N:29:LYS:HA	38:4N:32:GLU:CB	2.34	0.56
38:4N:49:ILE:HG22	38:4N:50:ARG:N	2.19	0.56
12:4c:313:ALA:O	12:4c:349:VAL:HA	2.04	0.56
12:4e:257:LEU:HA	12:4e:312:THR:HG21	1.87	0.56
12:4g:313:ALA:O	12:4g:349:VAL:HA	2.04	0.56
42:5H:133:LEU:HA	43:5L:50:ILE:HG12	1.87	0.56
47:6A:1246:ALA:O	47:6A:1250:ARG:HG3	2.06	0.56
47:6A:1826:PRO:HD2	47:6A:1914:MET:SD	2.45	0.56
47:6B:181:ARG:C	47:6B:181:ARG:HD2	2.30	0.56
47:6B:391:ARG:NH2	3:6D:951:TYR:OH	2.37	0.56
47:6B:767:VAL:HG12	47:6B:770:PHE:HB3	1.87	0.56
47:6B:1164:LEU:O	47:6B:1167:GLU:HG2	2.04	0.56
47:6B:1246:ALA:O	47:6B:1250:ARG:HG3	2.05	0.56
48:6F:956:GLN:HB3	50:6L:445:LEU:HB3	1.87	0.56
49:6J:68:VAL:HG22	49:6J:159:ALA:HB1	1.85	0.56
50:6L:56:ALA:O	50:6L:60:VAL:HG23	2.05	0.56
12:6a:54:ALA:HB2	12:6a:86:ARG:NH2	2.20	0.56
13:6b:269:LEU:N	13:6b:379:SER:O	2.33	0.56
12:7a:171:PRO:HG3	12:7a:181:GLU:HG2	1.87	0.56
12:8c:232:VAL:HG22	12:8c:270:PHE:HB2	1.87	0.56
13:8d:273:ALA:O	13:8d:375:VAL:N	2.27	0.56
12:9g:284:LEU:CD2	12:9g:362:LYS:HB3	2.35	0.56
13:Ah:362:VAL:HB	13:Ah:370:LYS:HB2	1.86	0.56
12:De:377:MET:O	12:De:381:VAL:HG23	2.05	0.56
1:0I:118:ALA:HB1	1:0I:152:ILE:HG12	1.87	0.56
1:0I:156:ASN:HB3	1:0I:159:LEU:HD13	1.86	0.56
1:0K:118:ALA:HB1	1:0K:152:ILE:HG12	1.87	0.56
1:0A:47:ARG:NH2	47:6B:117:LEU:HB3	2.20	0.56
1:0A:386:LEU:HA	1:0A:389:ASP:OD2	2.06	0.56
1:0B:168:ALA:H	1:0B:171:LEU:HD12	1.69	0.56
1:0C:201:LEU:O	1:0C:205:VAL:HG23	2.04	0.56
1:0F:214:LEU:HD22	1:0F:229:VAL:HG12	1.88	0.56
1:0F:227:ARG:HD3	1:0F:266:PHE:HB2	1.88	0.56
1:0M:417:LEU:O	1:0M:421:VAL:HG23	2.04	0.56
1:0N:407:VAL:O	1:0N:411:LEU:HB2	2.05	0.56
1:0S:227:ARG:HD3	1:0S:266:PHE:HB2	1.86	0.56
1:0T:196:LYS:HB3	1:0T:235:GLN:HG3	1.87	0.56
1:0T:214:LEU:HD22	1:0T:229:VAL:HG12	1.86	0.56
1:0T:367:THR:HB	1:0T:370:HIS:CG	2.41	0.56
1:0V:238:LYS:NZ	1:0V:239:HIS:CD2	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Y:30:ASN:HD22	1:0Y:33:ASN:ND2	2.03	0.56
1:1B:142:LYS:HE3	1:1B:178:GLU:HG3	1.86	0.56
2:1D:18:LEU:HD22	2:1F:55:ALA:HB2	1.87	0.56
3:1H:235:MET:HB3	3:1H:240:VAL:HG11	1.86	0.56
3:1H:265:TRP:CD2	47:6A:350:ARG:HD2	2.40	0.56
3:1H:988:TRP:CE3	3:1H:1010:LEU:CG	2.86	0.56
3:1H:988:TRP:HE3	3:1H:1010:LEU:HG	1.63	0.56
3:1H:1005:PRO:HD3	47:6A:406:ARG:HH22	1.67	0.56
4:1K:289:LEU:HB2	4:1K:317:ASN:HB2	1.86	0.56
5:1L:434:LEU:HD22	5:1L:496:ARG:HD2	1.87	0.56
6:1N:713:MET:SD	6:1N:824:ASP:HA	2.45	0.56
7:1O:341:ALA:HB2	7:1O:454:GLU:HG3	1.86	0.56
7:1O:447:LEU:HD23	7:1O:447:LEU:H	1.70	0.56
7:1O:2170:LEU:HD12	7:1O:2173:GLU:HG3	1.86	0.56
10:1R:149:ARG:HD2	10:1R:154:GLY:O	2.05	0.56
10:1R:420:ARG:NH1	12:Aa:74:ASP:OD1	2.39	0.56
12:1a:172:SER:HB2	12:1a:205:GLU:CD	2.30	0.56
12:1a:391:ARG:HG3	13:1b:346:TRP:HB3	1.87	0.56
12:1e:11:GLN:HG3	13:1f:249:ASN:HB2	1.88	0.56
12:1e:145:SER:HB2	12:1e:188:SER:OG	2.06	0.56
12:1e:291:GLN:OE1	13:Db:124:LYS:NZ	2.38	0.56
13:1h:226:ASN:OD1	14:2G:30:ASN:ND2	2.36	0.56
13:1h:241:SER:OG	13:1h:250:VAL:O	2.20	0.56
24:2T:145:TRP:CH2	24:2T:161:HIS:HB3	2.39	0.56
12:2a:267:MET:HE1	12:2a:305:PRO:HG3	1.87	0.56
12:2a:380:ARG:O	12:2a:383:GLU:HG2	2.06	0.56
12:2c:177:ASP:O	13:2d:352:LYS:HA	2.05	0.56
12:2c:177:ASP:OD2	53:2c:501:GDP:O2'	2.09	0.56
12:2e:171:PRO:HG3	12:2e:181:GLU:HG2	1.86	0.56
28:3C:558:ARG:HE	12:3g:407:GLU:CD	2.13	0.56
30:3F:300:ARG:N	13:6f:431:ASP:OD1	2.38	0.56
30:3F:342:ARG:HH11	12:7g:262:ARG:HD2	1.70	0.56
31:3I:158:VAL:O	31:3I:160:PRO:HD3	2.05	0.56
32:3J:363:ILE:HG21	12:9a:419:VAL:HG11	1.86	0.56
34:3Q:120:GLU:HA	34:3Q:123:GLN:OE1	2.05	0.56
34:3Q:312:TRP:CZ2	34:3Q:418:GLY:HA3	2.40	0.56
34:3Q:353:LEU:HD13	34:3Q:375:TYR:CZ	2.40	0.56
34:3S:77:GLN:HB3	34:3S:317:ARG:NH2	2.21	0.56
34:3S:301:HIS:O	34:3S:304:SER:OG	2.24	0.56
34:3V:63:SER:HA	34:3V:66:LYS:HE3	1.87	0.56
34:3Z:251:LEU:O	34:3Z:254:MET:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3Z:353:LEU:O	34:3Z:357:LEU:HD12	2.05	0.56
12:3a:272:PRO:HD2	12:3a:361:LEU:HD23	1.87	0.56
13:3b:224:TYR:HE2	12:3c:246:LEU:HB2	1.70	0.56
12:3c:112:LEU:O	12:3c:116:VAL:HG23	2.04	0.56
12:3c:171:PRO:HB3	12:3c:181:GLU:HG3	1.88	0.56
12:3e:3:GLU:HB3	12:3e:62:ARG:HH21	1.69	0.56
13:3h:269:LEU:N	13:3h:379:SER:O	2.33	0.56
34:4A:100:ILE:HG12	34:4A:338:LEU:CD2	2.35	0.56
35:4C:291:PHE:HD2	35:4C:315:VAL:HG12	1.69	0.56
35:4C:555:GLU:OE2	35:4C:706:SER:OG	2.24	0.56
37:4E:581:LEU:CB	43:5L:32:LEU:C	2.78	0.56
37:4E:589:PRO:C	43:5L:21:PRO:N	2.62	0.56
37:4F:559:MET:O	37:4F:563:GLU:HG3	2.04	0.56
37:4F:1349:THR:C	37:4F:1350:ILE:CG1	2.78	0.56
37:4F:1710:GLU:OE1	37:4F:1712:LEU:HD11	2.05	0.56
37:4G:922:SER:O	37:4G:933:ARG:NH1	2.38	0.56
37:4G:1074:GLN:HE22	38:4L:42:ILE:CA	2.18	0.56
37:4G:1084:ARG:HA	38:4L:41:LYS:HE3	1.88	0.56
37:4H:684:GLU:O	37:4H:688:LEU:HG	2.05	0.56
37:4H:688:LEU:HD13	37:4H:782:PRO:CB	2.35	0.56
37:4H:1332:SER:HG	38:4M:24:THR:CB	2.17	0.56
38:4K:77:VAL:HG21	38:4N:57:VAL:CB	2.34	0.56
38:4L:45:ALA:C	38:4L:47:ALA:H	2.12	0.56
38:4N:82:TYR:N	38:4N:82:TYR:CD1	2.71	0.56
39:4S:19:TYR:CD1	43:5K:124:MET:HE2	2.40	0.56
39:4S:20:PHE:HZ	43:5K:121:PHE:CZ	2.23	0.56
39:4S:65:ARG:HH22	44:5R:88:GLU:CD	2.13	0.56
40:4T:517:PRO:O	40:4T:520:GLU:HG3	2.05	0.56
40:4U:517:PRO:O	40:4U:520:GLU:HG3	2.05	0.56
41:4Z:168:GLY:HA2	43:5K:152:LEU:O	2.05	0.56
12:4a:86:ARG:CD	12:5a:281:TYR:HD1	2.14	0.56
41:5A:96:ALA:O	41:5A:117:ALA:O	2.23	0.56
42:5H:67:GLY:HA3	42:5H:113:ASP:OD1	2.05	0.56
42:5H:91:TYR:CB	43:5L:41:ASP:C	2.78	0.56
42:5H:134:LEU:C	43:5L:49:ALA:CB	2.78	0.56
42:5H:135:ARG:NH2	43:5L:33:LEU:HD21	2.20	0.56
42:5H:136:HIS:CG	43:5L:50:ILE:CB	2.86	0.56
42:5H:136:HIS:CE1	43:5L:50:ILE:O	2.58	0.56
42:5H:137:TYR:CD1	43:5L:46:PRO:CA	2.88	0.56
43:5I:33:LEU:HG	43:5I:52:LEU:HD11	1.87	0.56
43:5I:48:THR:O	43:5I:51:HIS:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5I:52:LEU:O	43:5I:52:LEU:HG	2.04	0.56
43:5J:52:LEU:O	43:5J:52:LEU:HG	2.04	0.56
43:5L:111:ARG:HB2	43:5L:115:SER:OG	2.05	0.56
45:5Y:165:UNK:C	45:5Y:167:UNK:H	2.16	0.56
12:5c:313:ALA:O	12:5c:349:VAL:HA	2.04	0.56
47:6A:468:PHE:O	47:6A:472:VAL:HG13	2.05	0.56
47:6A:1097:ALA:O	47:6A:1100:GLU:HB2	2.04	0.56
47:6A:1164:LEU:O	47:6A:1167:GLU:HG2	2.04	0.56
47:6B:468:PHE:O	47:6B:472:VAL:HG13	2.05	0.56
48:6E:810:LEU:HD21	49:6G:3:VAL:HG11	1.86	0.56
48:6E:884:LEU:HD13	48:6E:886:VAL:HG23	1.87	0.56
48:6F:154:ASP:OD1	48:6F:155:MET:N	2.38	0.56
48:6F:359:GLY:HA2	48:6F:655:LEU:HD13	1.87	0.56
48:6F:643:ILE:CD1	48:6F:656:LEU:HG	2.35	0.56
48:6F:833:HIS:HD1	48:6F:835:GLU:CD	2.12	0.56
49:6G:344:ASP:HB3	49:6G:347:PRO:HG2	1.85	0.56
49:6H:154:LEU:CD2	49:6H:388:VAL:HG12	2.34	0.56
49:6J:154:LEU:CD1	49:6J:392:GLY:HA2	2.34	0.56
50:6L:527:GLU:O	50:6L:530:LYS:HB3	2.05	0.56
13:6b:362:VAL:HB	13:6b:370:LYS:HB2	1.86	0.56
12:6c:86:ARG:HG3	12:7c:281:TYR:HB3	1.87	0.56
12:6c:285:THR:HG23	12:6c:288:GLU:H	1.70	0.56
13:6f:362:VAL:HB	13:6f:370:LYS:HB2	1.86	0.56
13:6h:362:VAL:HB	13:6h:370:LYS:HB2	1.86	0.56
13:7b:207:GLU:OE1	13:7b:304:LYS:NZ	2.30	0.56
13:7b:273:ALA:O	13:7b:375:VAL:N	2.27	0.56
12:7c:313:ALA:O	12:7c:349:VAL:HA	2.05	0.56
13:8b:273:ALA:O	13:8b:375:VAL:N	2.27	0.56
12:8c:177:ASP:OD2	53:8c:501:GDP:O2'	2.11	0.56
12:9a:389:PHE:HD1	12:9a:395:LEU:HD11	1.70	0.56
12:Aa:177:ASP:OD1	13:Ab:248:LEU:HD21	2.06	0.56
12:Ae:172:SER:HB3	12:Ae:205:GLU:CD	2.30	0.56
12:Ae:257:LEU:HA	12:Ae:312:THR:HG21	1.87	0.56
13:Af:362:VAL:HB	13:Af:370:LYS:HB2	1.86	0.56
12:Bc:341:PHE:HB3	12:Bc:348:ASN:HD22	1.70	0.56
12:Bg:67:ASP:O	12:Bg:92:PHE:HA	2.06	0.56
12:Cc:341:PHE:HB3	12:Cc:348:ASN:HD22	1.69	0.56
12:Cg:10:GLY:O	12:Cg:14:ASN:ND2	2.38	0.56
13:Ch:207:GLU:OE1	13:Ch:304:LYS:NZ	2.30	0.56
12:Dc:145:SER:HB2	12:Dc:188:SER:OG	2.04	0.56
12:Dg:337:ASN:HB3	12:Dg:340:TYR:HD2	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0K:134:LEU:HD11	1:0K:149:LEU:HD12	1.87	0.56
1:0K:380:LEU:HD21	1:0K:407:VAL:HG21	1.87	0.56
1:0G:240:SER:HB3	1:0G:243:LEU:HG	1.88	0.56
1:0M:162:GLN:HA	1:0M:165:ASP:OD2	2.05	0.56
1:0N:227:ARG:HD3	1:0N:266:PHE:HB2	1.87	0.56
1:0Q:349:GLU:HB3	1:0Q:351:HIS:CE1	2.40	0.56
1:0T:262:PHE:CE2	1:0T:264:ASP:HB2	2.40	0.56
1:0U:98:PHE:HD1	5:1M:595:GLU:O	1.88	0.56
1:0Z:162:GLN:HA	1:0Z:165:ASP:OD2	2.06	0.56
1:1B:85:LEU:HD23	1:1B:88:LEU:HD12	1.85	0.56
1:1B:164:VAL:HG21	1:1B:201:LEU:HD22	1.87	0.56
2:1D:112:MET:HG2	2:1D:153:GLN:HE22	1.71	0.56
2:1E:112:MET:HG2	2:1E:153:GLN:HE22	1.71	0.56
5:1M:453:VAL:N	5:1M:459:GLN:HE22	2.02	0.56
7:1O:909:VAL:HG23	7:1O:1012:THR:HG23	1.87	0.56
13:1f:207:GLU:OE1	13:1f:304:LYS:NZ	2.30	0.56
12:1g:171:PRO:HB3	12:1g:181:GLU:HG3	1.87	0.56
15:2H:158:UNK:HA	12:7g:77:ARG:NH2	2.18	0.56
24:2T:141:ARG:HD2	13:Dh:297:GLU:CB	2.35	0.56
24:2U:168:ILE:O	24:2U:171:LYS:HG3	2.05	0.56
12:2c:175:VAL:HG11	13:2d:332:VAL:HG13	1.87	0.56
29:3E:1194:GLN:HG2	13:5d:159:VAL:HG11	1.87	0.56
34:3N:99:ARG:O	34:3N:103:LEU:HG	2.05	0.56
34:3Y:254:MET:HB3	34:3Y:258:TYR:HE2	1.70	0.56
34:3Y:276:GLU:HG3	34:3Y:459:ILE:HD12	1.87	0.56
13:3f:403:ALA:HB2	12:3g:344:TRP:CZ3	2.41	0.56
12:3g:175:VAL:HG11	13:3h:332:VAL:CG1	2.35	0.56
37:4E:580:GLU:N	37:4E:580:GLU:HG3	2.20	0.56
37:4E:589:PRO:CA	43:5L:19:ARG:N	2.67	0.56
37:4E:960:LEU:CD2	38:4P:72:ARG:HG3	2.36	0.56
37:4F:1316:GLN:HA	37:4F:1321:THR:CG2	2.36	0.56
37:4G:527:VAL:HA	37:4G:531:LEU:CD2	2.34	0.56
37:4G:856:MET:SD	37:4G:861:ALA:N	2.79	0.56
37:4G:1084:ARG:HG3	37:4G:1092:LEU:HD23	1.86	0.56
37:4H:1137:ALA:C	38:4M:33:LYS:CG	2.56	0.56
37:4H:1333:VAL:CB	37:4H:1341:ILE:O	2.54	0.56
38:4K:61:LEU:HD22	38:4K:80:LEU:HD21	1.87	0.56
38:4N:45:ALA:C	38:4N:47:ALA:H	2.12	0.56
42:5E:156:GLU:HA	43:5I:155:ALA:H	1.70	0.56
42:5G:118:SER:OG	42:5G:120:ASP:OD1	2.21	0.56
42:5H:135:ARG:HB3	43:5L:52:LEU:N	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:5R:55:MET:HE3	44:5R:79:LYS:HE2	1.88	0.56
12:5e:171:PRO:HG3	12:5e:181:GLU:HG2	1.87	0.56
47:6A:595:ARG:NH1	47:6A:898:ASP:OD1	2.37	0.56
47:6A:767:VAL:HG12	47:6A:770:PHE:HB3	1.87	0.56
47:6B:350:ARG:HH22	3:6D:526:ASP:CG	2.13	0.56
47:6B:406:ARG:CZ	3:6D:995:PHE:HD1	2.19	0.56
3:6D:649:SER:HB2	3:6D:688:LEU:HD21	1.87	0.56
48:6E:59:LEU:HA	48:6E:70:TYR:HA	1.86	0.56
48:6E:643:ILE:CD1	48:6E:656:LEU:HG	2.35	0.56
48:6F:59:LEU:HA	48:6F:70:TYR:HA	1.86	0.56
48:6F:118:ASP:HA	48:6F:147:ASP:HB3	1.88	0.56
48:6F:884:LEU:HD13	48:6F:886:VAL:HG23	1.88	0.56
50:6L:159:ARG:HH22	50:6L:178:ASN:HD21	1.54	0.56
13:7b:362:VAL:HB	13:7b:370:LYS:HB2	1.86	0.56
12:7c:178:THR:HG22	13:7d:352:LYS:NZ	2.21	0.56
13:7d:273:ALA:O	13:7d:375:VAL:N	2.27	0.56
12:7e:172:SER:OG	12:7e:175:VAL:O	2.24	0.56
12:8a:91:VAL:CG2	12:8a:116:VAL:HG12	2.36	0.56
13:8h:207:GLU:OE1	13:8h:304:LYS:NZ	2.30	0.56
12:Aa:172:SER:HB3	12:Aa:205:GLU:CD	2.30	0.56
12:Ag:171:PRO:HB3	12:Ag:181:GLU:HG3	1.87	0.56
13:Bd:362:VAL:HB	13:Bd:370:LYS:HB2	1.86	0.56
13:Bh:362:VAL:HB	13:Bh:370:LYS:HB2	1.86	0.56
1:0H:260:LEU:CD1	1:0H:297:ALA:HB1	2.35	0.56
1:0D:285:LEU:O	1:0D:289:VAL:HG23	2.06	0.56
1:0G:373:ALA:O	1:0G:377:THR:HG23	2.06	0.56
1:0M:325:GLU:HG3	1:0M:366:HIS:HB3	1.88	0.56
1:0N:179:PRO:HG2	32:3J:97:GLY:N	2.20	0.56
1:0P:80:VAL:HG22	1:0P:85:LEU:HD22	1.87	0.56
1:0R:358:TRP:CD1	1:0R:362:GLN:HE22	2.24	0.56
1:0U:395:ASP:OD1	1:0U:396:LEU:N	2.37	0.56
1:0V:225:LEU:O	1:0V:229:VAL:HG22	2.04	0.56
1:0V:244:ALA:O	1:0V:248:VAL:HG23	2.05	0.56
1:0Y:142:LYS:HE3	1:0Y:178:GLU:OE2	2.06	0.56
2:1E:139:ARG:HH21	2:1E:176:HIS:CG	2.24	0.56
3:1H:984:GLN:O	47:6A:395:VAL:HG11	2.06	0.56
4:1J:227:PHE:HD1	4:1J:229:LEU:HG	1.70	0.56
10:1S:57:LYS:HZ2	13:Ah:339:ARG:HA	1.71	0.56
13:1h:188:VAL:HG13	13:1h:425:LEU:HD22	1.88	0.56
12:2e:60:VAL:HG12	12:2e:86:ARG:CD	2.36	0.56
32:3J:147:PHE:CE2	32:3J:168:LEU:HD21	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3N:352:LEU:HD12	34:3N:382:LEU:HD11	1.88	0.56
34:3Q:118:HIS:CE1	34:3Q:356:PHE:CE2	2.94	0.56
34:3R:99:ARG:HH22	34:4B:240:GLU:HG2	1.70	0.56
34:3T:437:GLY:O	34:3T:441:LEU:HG	2.06	0.56
12:3c:55:THR:HG23	12:4c:282:ARG:O	2.06	0.56
37:4E:590:LYS:O	43:5L:20:HIS:HD2	1.89	0.56
37:4E:1093:VAL:HG11	37:4E:1335:MET:HE3	1.86	0.56
37:4F:1073:LEU:CD2	37:4F:1379:ALA:HB2	2.35	0.56
38:4N:29:LYS:O	38:4N:33:LYS:HD3	2.04	0.56
12:4a:278:SER:HA	12:4a:281:TYR:HB2	1.87	0.56
42:5H:93:GLU:C	43:5L:44:THR:C	2.70	0.56
42:5H:94:CYS:O	42:5H:97:HIS:HB3	2.06	0.56
42:5H:143:VAL:HG12	42:5H:144:PHE:CG	2.41	0.56
43:5K:111:ARG:HB2	43:5K:115:SER:OG	2.05	0.56
48:6E:118:ASP:HA	48:6E:147:ASP:HB3	1.88	0.56
49:6G:18:GLU:OE2	49:6G:19:VAL:HG13	2.06	0.56
50:6K:333:ASP:HB3	50:6K:335:MET:HE3	1.87	0.56
50:6L:465:PHE:HE2	50:6L:494:VAL:HG23	1.71	0.56
51:6N:2272:ARG:HH21	51:6N:2274:GLY:HA3	1.69	0.56
13:6d:362:VAL:HB	13:6d:370:LYS:HB2	1.86	0.56
12:7c:145:SER:O	12:7c:149:THR:HG23	2.05	0.56
13:7d:362:VAL:HB	13:7d:370:LYS:HB2	1.86	0.56
12:8c:272:PRO:HD3	12:8c:364:SER:HA	1.88	0.56
12:8e:257:LEU:HA	12:8e:312:THR:HG21	1.87	0.56
13:Bb:406:HIS:CD2	12:Bc:261:PRO:HD3	2.41	0.56
12:Cc:111:GLU:OE1	12:Cc:111:GLU:N	2.38	0.56
1:0W:240:SER:HB3	1:0W:243:LEU:HG	1.88	0.56
1:0K:152:ILE:HG23	1:0K:159:LEU:HD12	1.88	0.56
1:0A:230:CYS:HB2	1:0A:270:HIS:HB3	1.87	0.56
1:0A:343:ALA:O	1:0A:347:GLU:HG3	2.06	0.56
1:0B:262:PHE:CD1	1:0B:263:PRO:HD2	2.41	0.56
1:0E:127:LEU:HD13	1:0E:163:VAL:HA	1.88	0.56
1:0M:332:ILE:HG13	1:0M:370:HIS:CE1	2.40	0.56
1:0S:214:LEU:HD22	1:0S:229:VAL:HG12	1.87	0.56
1:0U:89:VAL:HG11	1:0U:125:GLY:HA3	1.88	0.56
1:0U:214:LEU:HD22	1:0U:229:VAL:HG12	1.87	0.56
1:0U:241:VAL:HG12	1:0U:245:GLU:OE1	2.05	0.56
1:0Y:262:PHE:CD1	1:0Y:263:PRO:HD2	2.41	0.56
1:0Z:133:CYS:SG	1:0Z:145:SER:HB3	2.46	0.56
1:1A:227:ARG:HD3	1:1A:266:PHE:HB2	1.87	0.56
3:1H:995:PHE:CE2	3:1H:1005:PRO:HG2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1M:434:LEU:HD22	5:1M:496:ARG:HD2	1.87	0.56
6:1N:2190:PRO:HG3	6:1N:2636:ALA:HB1	1.86	0.56
7:1O:19:SER:HA	7:1O:22:VAL:HG22	1.88	0.56
7:1O:3033:TRP:CH2	7:1O:3076:LEU:HD12	2.41	0.56
10:1S:88:GLU:HG3	10:1S:115:HIS:HD2	1.70	0.56
12:1a:267:MET:HE1	12:1a:305:PRO:HG3	1.86	0.56
13:1b:188:VAL:HG13	13:1b:425:LEU:HD22	1.88	0.56
13:1b:207:GLU:OE1	13:1b:304:LYS:NZ	2.30	0.56
13:1d:188:VAL:HG13	13:1d:425:LEU:HD22	1.88	0.56
13:1f:188:VAL:HG13	13:1f:425:LEU:HD22	1.88	0.56
22:2P:87:UNK:O	13:5d:96:LYS:HD2	2.05	0.56
24:2S:140:PRO:CB	13:Cb:117:LEU:HD11	2.35	0.56
34:3M:81:GLU:HA	34:3M:84:GLU:OE2	2.06	0.56
34:3P:109:LEU:HA	34:3P:112:LYS:CE	2.36	0.56
34:3U:338:LEU:HD12	34:3U:393:ALA:CB	2.35	0.56
34:3V:79:ALA:O	34:3V:82:ILE:HB	2.06	0.56
34:3Y:482:LEU:HB2	34:4A:485:TYR:CE2	2.41	0.56
34:4A:79:ALA:O	34:4A:82:ILE:HB	2.06	0.56
37:4E:1135:PHE:CZ	38:4O:35:ALA:N	2.74	0.56
37:4E:1136:ARG:HA	37:4E:1145:VAL:O	2.05	0.56
37:4F:1075:VAL:O	38:4N:38:VAL:CG2	2.53	0.56
37:4G:691:MET:CG	37:4G:785:LYS:HB3	2.31	0.56
37:4G:1075:VAL:HG13	37:4G:1083:ILE:HB	1.87	0.56
37:4H:526:ARG:NH2	37:4H:680:VAL:HB	2.21	0.56
37:4H:897:VAL:HG21	37:4H:906:THR:CG2	2.35	0.56
38:4J:29:LYS:O	38:4J:32:GLU:HB3	2.05	0.56
39:4R:4:LEU:HA	43:5J:93:MET:HE1	1.88	0.56
12:4g:114:ASP:OD1	12:4g:115:SER:N	2.39	0.56
43:5I:51:HIS:CE1	43:5I:146:TYR:OH	2.58	0.56
43:5J:51:HIS:CE1	43:5J:146:TYR:OH	2.58	0.56
47:6A:1311:HIS:HB2	47:6A:1436:LEU:HD13	1.88	0.56
47:6B:350:ARG:NH1	3:6D:265:TRP:CE3	2.74	0.56
47:6B:1216:ALA:HB2	51:6N:2442:THR:HG21	1.88	0.56
47:6B:1311:HIS:HB2	47:6B:1436:LEU:HD13	1.88	0.56
3:6D:984:GLN:NE2	48:6E:346:LEU:HD11	2.21	0.56
3:6D:1016:MET:HB2	48:6E:349:GLY:O	2.05	0.56
49:6H:18:GLU:OE2	49:6H:19:VAL:HG13	2.06	0.56
50:6K:159:ARG:HH22	50:6K:178:ASN:HD21	1.54	0.56
50:6K:382:GLN:HE22	50:6K:399:LEU:HD21	1.70	0.56
50:6K:465:PHE:HE2	50:6K:494:VAL:HG23	1.71	0.56
50:6K:527:GLU:O	50:6K:530:LYS:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:6L:333:ASP:HB3	50:6L:335:MET:HE3	1.87	0.56
51:6N:2272:ARG:NH2	51:6N:2274:GLY:HA3	2.20	0.56
12:6g:397:TRP:CD2	13:6h:257:THR:HG22	2.40	0.56
13:8b:188:VAL:HG13	13:8b:425:LEU:HD22	1.88	0.56
13:8f:188:VAL:HG13	13:8f:425:LEU:HD22	1.88	0.56
12:9e:21:TRP:HA	12:9e:24:VAL:HG22	1.88	0.56
12:Ae:84:ILE:C	12:Ae:86:ARG:HH11	2.14	0.56
12:Ba:20:PHE:HA	12:Ba:230:SER:HB3	1.85	0.56
12:Ce:20:PHE:HA	12:Ce:230:SER:HB2	1.87	0.56
1:0J:164:VAL:HG21	1:0J:201:LEU:HD22	1.87	0.56
1:0A:11:GLU:OE2	47:6B:137:HIS:CD2	2.58	0.56
1:0A:11:GLU:OE2	47:6B:137:HIS:HB3	2.05	0.56
1:0A:218:VAL:O	1:0A:226:LYS:NZ	2.39	0.56
1:0O:164:VAL:HG21	1:0O:201:LEU:HD22	1.86	0.56
1:0P:184:LYS:HB3	1:0P:217:LEU:HD21	1.88	0.56
1:0P:260:LEU:CD1	1:0P:297:ALA:HB1	2.36	0.56
1:0Q:225:LEU:O	1:0Q:229:VAL:HG22	2.06	0.56
1:0U:221:GLN:HB2	5:1M:501:ASP:OD2	2.04	0.56
1:0V:195:SER:O	1:0V:239:HIS:CE1	2.54	0.56
1:0V:353:LYS:HD3	1:0V:386:LEU:HD22	1.87	0.56
1:0Z:367:THR:HB	1:0Z:370:HIS:CG	2.41	0.56
1:1A:285:LEU:O	1:1A:289:VAL:HG23	2.06	0.56
1:1C:233:LEU:HD22	1:1C:252:ILE:HD13	1.88	0.56
3:1I:1036:GLN:HA	3:1I:1039:GLN:OE1	2.06	0.56
4:1J:127:ASP:OD1	4:1J:128:SER:N	2.39	0.56
4:1J:289:LEU:HB2	4:1J:317:ASN:HB2	1.86	0.56
4:1K:127:ASP:OD1	4:1K:128:SER:N	2.39	0.56
4:1K:227:PHE:HD1	4:1K:229:LEU:HG	1.70	0.56
5:1L:415:TYR:HD1	5:1L:440:LYS:H	1.52	0.56
6:1N:1369:CYS:SG	6:1N:1378:HIS:HB2	2.46	0.56
10:1S:110:PHE:HE1	12:9g:106:TYR:CG	2.24	0.56
12:1c:176:SER:OG	13:1d:349:THR:HB	2.05	0.56
12:1e:361:LEU:HD13	14:2F:20:ALA:HB1	1.86	0.56
13:2b:406:HIS:CD2	12:2c:261:PRO:HD3	2.40	0.56
12:2c:179:VAL:HG23	13:2d:352:LYS:HB2	1.88	0.56
30:3F:620:ARG:NH1	30:3F:624:VAL:HG21	2.20	0.56
32:3J:352:ALA:HB2	12:9a:417:ASP:CG	2.30	0.56
33:3L:44:PHE:CE2	33:3L:66:GLN:NE2	2.74	0.56
34:3M:66:LYS:HG3	34:3P:55:GLN:OE1	2.06	0.56
34:3M:105:GLN:O	34:3M:109:LEU:HG	2.05	0.56
34:3O:312:TRP:CZ2	34:3O:418:GLY:HA3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3O:366:VAL:O	34:3Y:359:ARG:HD2	2.04	0.56
34:3T:345:ALA:HA	34:3T:348:LYS:CD	2.36	0.56
34:3U:39:GLU:HG3	34:3U:43:ARG:NE	2.12	0.56
34:3U:107:TYR:CE2	34:3U:111:ILE:HD11	2.41	0.56
37:4E:580:GLU:CA	43:5L:35:LYS:CB	2.66	0.56
37:4E:587:ALA:N	37:4E:587:ALA:HA	2.07	0.56
37:4E:673:THR:HG22	37:4E:677:THR:O	2.06	0.56
37:4F:429:TYR:HB2	37:4F:854:TYR:CD1	2.40	0.56
37:4G:526:ARG:O	37:4G:528:SER:N	2.38	0.56
37:4H:1075:VAL:HG21	37:4H:1356:VAL:HG11	1.86	0.56
37:4H:1084:ARG:HB2	38:4M:38:VAL:HG22	1.86	0.56
37:4H:1332:SER:OG	38:4M:24:THR:OG1	2.24	0.56
38:4L:32:GLU:CG	38:4L:33:LYS:HZ2	2.14	0.56
40:4U:531:SER:O	40:4U:614:LEU:HD11	2.06	0.56
12:4g:10:GLY:O	12:4g:14:ASN:ND2	2.39	0.56
42:5H:85:CYS:HB2	43:5L:47:LYS:CG	2.36	0.56
42:5H:91:TYR:CD2	43:5L:42:TYR:N	2.74	0.56
12:5a:94:GLN:NE2	13:5b:131:GLY:HA3	2.21	0.56
47:6A:713:VAL:HG11	47:6A:770:PHE:CD2	2.41	0.56
47:6B:381:GLN:C	3:6D:848:ARG:HD2	2.30	0.56
47:6B:595:ARG:NH1	47:6B:898:ASP:OD1	2.37	0.56
47:6B:713:VAL:HG11	47:6B:770:PHE:CD2	2.41	0.56
47:6B:813:VAL:HG22	47:6B:814:ALA:H	1.71	0.56
49:6G:358:GLN:HE22	49:6G:436:GLN:NE2	1.97	0.56
49:6G:446:GLU:OE2	49:6G:447:ARG:NH1	2.38	0.56
49:6I:64:VAL:HG12	49:6I:110:VAL:HG13	1.87	0.56
49:6I:446:GLU:OE2	49:6I:447:ARG:NH1	2.38	0.56
49:6J:64:VAL:HG12	49:6J:110:VAL:HG13	1.87	0.56
50:6K:433:VAL:HG12	50:6K:499:LYS:HZ2	1.70	0.56
50:6L:382:GLN:HE22	50:6L:399:LEU:HD21	1.70	0.56
51:6M:1414:VAL:O	51:6M:1418:LEU:HG	2.05	0.56
12:6a:165:LEU:HD22	12:6a:250:LEU:HD11	1.87	0.56
13:6b:188:VAL:HG13	13:6b:425:LEU:HD22	1.88	0.56
13:6d:188:VAL:HG13	13:6d:425:LEU:HD22	1.88	0.56
12:8c:11:GLN:HA	12:8c:72:THR:HG21	1.87	0.56
13:8d:188:VAL:HG13	13:8d:425:LEU:HD22	1.88	0.56
12:Ag:10:GLY:O	12:Ag:14:ASN:ND2	2.39	0.56
12:Bc:87:PRO:HG2	12:Cc:278:SER:HB3	1.88	0.56
12:Cc:251:ARG:O	12:Cc:255:VAL:HG23	2.05	0.56
13:Cd:222:PRO:HD2	12:Cc:324:LYS:HG2	1.86	0.56
13:Db:269:LEU:N	13:Db:379:SER:O	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:De:178:THR:N	12:De:181:GLU:OE2	2.34	0.56
1:0J:142:LYS:HE3	1:0J:178:GLU:HG3	1.86	0.56
1:0C:367:THR:HB	1:0C:370:HIS:CG	2.41	0.56
1:0E:10:PHE:CZ	1:0F:42:ALA:HB2	2.41	0.56
1:0E:21:VAL:HG22	1:0E:49:LEU:HD13	1.88	0.56
1:0L:42:ALA:HB2	1:0M:10:PHE:HZ	1.71	0.56
1:0M:92:LEU:HA	1:0M:132:THR:HG21	1.86	0.56
1:0P:14:GLN:O	1:0P:18:VAL:HG23	2.06	0.56
1:0Q:127:LEU:O	1:0Q:131:VAL:HG23	2.06	0.56
1:1A:349:GLU:HB3	1:1A:351:HIS:CE1	2.41	0.56
1:1B:172:LEU:HD13	1:1B:191:LEU:HD23	1.88	0.56
1:1B:380:LEU:HD11	1:1B:407:VAL:HG11	1.86	0.56
2:1E:82:LEU:HD11	2:1E:118:PRO:HB2	1.87	0.56
3:1H:930:LYS:HZ1	4:1J:244:LEU:HA	1.71	0.56
3:1H:1002:PRO:HB2	47:6A:406:ARG:HE	1.71	0.56
3:1H:1016:MET:HB3	48:6F:350:GLY:HA2	1.87	0.56
4:1J:293:LEU:HD22	4:1J:313:PHE:CD2	2.41	0.56
4:1K:293:LEU:HD22	4:1K:313:PHE:CD2	2.41	0.56
5:1M:142:PHE:HA	5:1M:190:VAL:HA	1.87	0.56
14:2F:115:GLN:HB3	12:Ba:78:SER:HB2	1.87	0.56
13:2f:207:GLU:OE1	13:2f:304:LYS:NZ	2.30	0.56
32:3K:62:TYR:HB2	32:3K:111:PHE:HD2	1.71	0.56
32:3K:141:VAL:HA	32:3K:228:GLU:OE2	2.06	0.56
34:3R:38:HIS:CE1	34:3R:452:HIS:CE1	2.94	0.56
34:3T:251:LEU:HA	34:3T:481:LEU:HD13	1.86	0.56
34:3X:117:ARG:O	34:3X:121:LEU:HD23	2.05	0.56
34:3Y:501:ASP:O	34:3Y:505:THR:HG23	2.06	0.56
12:3a:163:MET:HA	12:3a:197:ASP:OD1	2.06	0.56
35:4C:346:VAL:CG2	1:0H:179:PRO:HD2	2.36	0.56
37:4E:772:ALA:O	37:4E:774:HIS:ND1	2.39	0.56
37:4F:412:LEU:O	37:4F:416:VAL:HG23	2.05	0.56
37:4F:688:LEU:HD13	37:4F:782:PRO:HB3	1.87	0.56
37:4F:1072:ALA:HB2	37:4F:1084:ARG:HE	1.70	0.56
37:4F:1326:ALA:HB3	37:4F:1328:ASP:OD1	2.06	0.56
37:4F:1341:ILE:H	38:4N:30:ALA:HB3	1.71	0.56
37:4F:1626:VAL:HG22	37:4F:1634:PHE:O	2.05	0.56
37:4G:973:HIS:NE2	37:4G:976:ASP:HB2	2.20	0.56
37:4G:1665:LYS:HG2	37:4G:1673:ALA:O	2.06	0.56
37:4H:692:MET:CB	38:4J:63:GLN:HE21	2.17	0.56
37:4H:1137:ALA:H	37:4H:1145:VAL:HB	1.70	0.56
37:4H:1333:VAL:HG11	38:4M:27:ALA:CA	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4K:29:LYS:C	38:4K:32:GLU:HB3	2.31	0.56
38:4N:29:LYS:C	38:4N:32:GLU:HB3	2.31	0.56
40:4U:636:GLY:O	40:4U:638:THR:N	2.33	0.56
42:5H:49:ILE:C	43:5L:144:TYR:CG	2.83	0.56
43:5K:48:THR:O	43:5K:51:HIS:HB2	2.05	0.56
43:5K:52:LEU:O	43:5K:52:LEU:HG	2.04	0.56
43:5K:165:LEU:HG	43:5K:166:ALA:N	2.21	0.56
47:6A:1216:ALA:HB2	51:6M:2442:THR:HG21	1.88	0.56
47:6B:205:ARG:HH22	12:Bg:404:ASP:N	2.02	0.56
3:6D:988:TRP:HA	3:6D:991:ILE:HD12	1.86	0.56
48:6E:77:GLY:H	48:6E:99:ASP:HB3	1.70	0.56
48:6E:227:ALA:HB2	48:6E:247:GLY:HA2	1.88	0.56
48:6F:77:GLY:H	48:6F:99:ASP:HB3	1.70	0.56
49:6H:446:GLU:OE2	49:6H:447:ARG:NH1	2.38	0.56
49:6J:446:GLU:OE2	49:6J:447:ARG:NH1	2.38	0.56
51:6M:1989:SER:OG	51:6M:1991:THR:O	2.23	0.56
51:6N:1989:SER:OG	51:6N:1991:THR:O	2.23	0.56
12:6g:60:VAL:HG21	12:6g:86:ARG:HH12	1.70	0.56
13:7f:362:VAL:HB	13:7f:370:LYS:HB2	1.86	0.56
12:7g:313:ALA:O	12:7g:349:VAL:HA	2.05	0.56
12:9e:3:GLU:HB3	12:9e:62:ARG:HH21	1.69	0.56
12:9e:176:SER:HB2	12:9e:181:GLU:OE1	2.05	0.56
12:Aa:102:ALA:HB1	12:Aa:401:GLU:OE1	2.06	0.56
12:Ba:391:ARG:HG3	13:Bb:346:TRP:HB3	1.88	0.56
13:Bb:188:VAL:HG13	13:Bb:425:LEU:HD22	1.88	0.56
12:De:257:LEU:HA	12:De:312:THR:HG21	1.88	0.56
1:0K:133:CYS:HB3	1:0K:141:VAL:HG12	1.87	0.56
1:0A:278:VAL:HG13	1:0A:285:LEU:HD23	1.88	0.56
1:0B:142:LYS:HE3	1:0B:178:GLU:OE2	2.06	0.56
1:0E:271:SER:O	1:0E:275:VAL:HG23	2.05	0.56
1:0G:134:LEU:HB2	1:0G:171:LEU:HD13	1.88	0.56
1:0L:224:LYS:HG3	1:0L:225:LEU:HD12	1.88	0.56
1:0L:252:ILE:HA	1:0L:255:LYS:HE2	1.87	0.56
1:0M:285:LEU:O	1:0M:289:VAL:HG23	2.06	0.56
1:0U:245:GLU:HA	1:0U:248:VAL:HG22	1.87	0.56
1:0U:411:LEU:HD12	1:0U:411:LEU:O	2.06	0.56
1:0X:230:CYS:HB2	1:0X:270:HIS:HB3	1.87	0.56
1:0Y:85:LEU:HA	1:0Y:88:LEU:HD12	1.88	0.56
1:0Y:170:PRO:O	1:0Y:174:LEU:HG	2.06	0.56
1:1A:240:SER:OG	1:1A:243:LEU:HG	2.06	0.56
1:1C:89:VAL:HG11	1:1C:125:GLY:HA3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:275:VAL:HG21	1:1C:298:LEU:HD21	1.87	0.56
2:1E:189:LEU:HD13	2:1E:227:VAL:HG22	1.87	0.56
2:1G:64:THR:HA	2:1G:88:LEU:HD13	1.88	0.56
2:1G:390:GLY:O	2:1G:396:THR:OG1	2.23	0.56
4:1J:320:ASP:OD1	4:1J:321:VAL:N	2.39	0.56
4:1K:320:ASP:OD1	4:1K:321:VAL:N	2.39	0.56
5:1L:142:PHE:HA	5:1L:190:VAL:HA	1.87	0.56
6:1N:1418:ALA:O	6:1N:1421:LEU:HG	2.05	0.56
10:1R:40:HIS:HA	10:1R:135:THR:HG23	1.88	0.56
12:1e:208:TYR:HE2	13:1f:329:ASN:HD22	1.53	0.56
12:2a:396:HIS:NE2	13:2b:262:TYR:HA	2.20	0.56
28:3C:520:VAL:HG13	13:4h:389:SER:HB2	1.87	0.56
30:3G:707:ARG:NH1	12:6c:158:GLU:OE1	2.38	0.56
30:3G:751:ALA:HA	12:6a:106:TYR:CE2	2.41	0.56
34:3O:55:GLN:CD	34:3T:70:GLU:OE2	2.49	0.56
34:3O:472:ASP:HA	34:3O:475:MET:HE2	1.88	0.56
34:3Q:92:THR:HG21	34:3Q:328:MET:HE1	1.88	0.56
34:3T:48:HIS:NE2	34:3T:222:LEU:HG	2.21	0.56
34:3V:47:ASN:HD22	34:3Z:76:GLU:HB3	1.71	0.56
34:3X:76:GLU:HB3	34:4A:47:ASN:HD22	1.71	0.56
12:3a:334:GLN:HE21	12:3a:349:VAL:HG12	1.69	0.56
37:4E:589:PRO:CD	43:5L:20:HIS:O	2.51	0.56
37:4E:589:PRO:HG3	43:5L:17:SER:H	1.70	0.56
37:4F:1075:VAL:HG21	37:4F:1356:VAL:HG11	1.88	0.56
37:4H:429:TYR:O	37:4H:854:TYR:HD1	1.89	0.56
38:4N:61:LEU:HA	38:4N:64:GLY:HA3	1.88	0.56
40:4T:531:SER:O	40:4T:614:LEU:HD11	2.06	0.56
40:4U:457:THR:O	40:4U:484:ILE:HA	2.05	0.56
41:4Z:164:GLY:O	43:5K:156:SER:HB2	2.06	0.56
13:4b:11:GLN:NE2	12:4c:244:GLY:O	2.39	0.56
42:5H:137:TYR:CD2	43:5L:45:ASN:HB3	2.40	0.56
43:5L:51:HIS:CE1	43:5L:146:TYR:OH	2.58	0.56
47:6A:116:ASN:OD1	47:6A:117:LEU:N	2.39	0.56
47:6A:813:VAL:HG22	47:6A:814:ALA:H	1.71	0.56
47:6A:994:LYS:HD2	47:6A:994:LYS:N	2.20	0.56
47:6B:839:ALA:HB3	47:6B:883:ILE:HD11	1.87	0.56
3:6D:1016:MET:HG3	48:6E:350:GLY:HA2	1.88	0.56
48:6F:227:ALA:HB2	48:6F:247:GLY:HA2	1.88	0.56
50:6K:203:ILE:HD13	50:6K:341:VAL:HB	1.87	0.56
50:6K:426:ILE:HG13	50:6K:427:PRO:HD3	1.88	0.56
50:6L:426:ILE:HG13	50:6L:427:PRO:HD3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6M:2272:ARG:HH21	51:6M:2274:GLY:HA3	1.69	0.56
13:6f:188:VAL:HG13	13:6f:425:LEU:HD22	1.88	0.56
13:7b:188:VAL:HG13	13:7b:425:LEU:HD22	1.88	0.56
12:8a:113:ILE:HA	12:8a:116:VAL:CG2	2.35	0.56
12:8c:55:THR:HG21	12:9c:284:LEU:HD23	1.88	0.56
13:8h:269:LEU:N	13:8h:379:SER:O	2.33	0.56
12:Bc:104:GLY:O	12:Bc:147:MET:HG3	2.06	0.56
1:0J:85:LEU:HD23	1:0J:88:LEU:HD12	1.87	0.56
1:0J:131:VAL:HB	1:0J:171:LEU:HD22	1.87	0.56
1:0B:45:LEU:C	1:0B:48:PRO:HD2	2.31	0.56
1:0B:248:VAL:HA	1:0B:253:PHE:HE2	1.70	0.56
1:0B:285:LEU:O	1:0B:289:VAL:HG23	2.05	0.56
1:0F:367:THR:HB	1:0F:370:HIS:HD1	1.69	0.56
1:0O:346:GLU:HG3	1:0O:347:GLU:OE1	2.05	0.56
1:0R:161:GLN:HA	1:0R:164:VAL:HG12	1.87	0.56
1:0U:242:ASP:HA	1:0U:245:GLU:OE2	2.06	0.56
1:0V:27:MET:HB2	1:0V:37:LEU:HD11	1.88	0.56
1:0X:278:VAL:HG13	1:0X:285:LEU:HD23	1.88	0.56
1:0Z:17:ARG:NH1	1:0Z:52:ASP:OD1	2.39	0.56
1:1A:89:VAL:HG11	1:1A:125:GLY:HA3	1.88	0.56
1:1C:311:LEU:HD11	1:1C:351:HIS:CD2	2.41	0.56
1:1C:354:SER:HB3	1:1C:396:LEU:HD23	1.88	0.56
2:1F:390:GLY:O	2:1F:396:THR:OG1	2.23	0.56
3:1H:205:PRO:HB2	3:1H:210:GLN:HE21	1.71	0.56
5:1L:564:ARG:NH1	13:1b:434:GLU:HG3	2.21	0.56
6:1N:2323:LEU:HD21	6:1N:2423:PHE:HD1	1.71	0.56
6:1N:2541:THR:O	6:1N:2621:LEU:HA	2.05	0.56
8:1P:705:ASP:OD1	8:1P:706:VAL:N	2.39	0.56
12:1e:208:TYR:HE2	13:1f:329:ASN:ND2	2.04	0.56
13:1f:406:HIS:CD2	12:1g:261:PRO:HD3	2.41	0.56
12:1g:281:TYR:HB3	13:Dd:88:HIS:CD2	2.41	0.56
24:2T:179:GLU:O	24:2T:183:GLU:HG3	2.05	0.56
12:2c:145:SER:HB2	12:2c:188:SER:OG	2.06	0.56
29:3E:1188:TRP:CH2	29:3E:1195:ARG:HB3	2.41	0.56
31:3I:289:ASN:HD21	13:9h:393:HIS:HE1	1.48	0.56
33:3L:91:PHE:CE2	13:6d:156:ARG:HD2	2.41	0.56
34:3M:77:GLN:HB3	34:3M:317:ARG:NH2	2.22	0.56
34:3M:204:MET:N	34:3M:204:MET:HE2	2.21	0.56
34:3P:33:GLN:HA	34:3P:36:ILE:HG12	1.87	0.56
34:3Q:116:ARG:O	34:3Q:120:GLU:HG2	2.06	0.56
34:3Q:405:ALA:HA	34:3Q:408:ARG:HE	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3R:251:LEU:HB3	34:3W:488:ARG:NH2	2.21	0.56
34:3S:339:GLU:O	34:3S:343:THR:HG23	2.06	0.56
34:3T:96:HIS:CG	34:3T:335:SER:HG	2.24	0.56
34:3T:106:ASP:O	34:3T:110:LEU:HG	2.06	0.56
34:3T:112:LYS:HA	34:3T:112:LYS:HE3	1.87	0.56
34:3U:356:PHE:HA	34:3U:359:ARG:HE	1.70	0.56
12:3a:237:THR:HG23	12:3a:240:LEU:HD13	1.87	0.56
35:4C:339:LEU:HD21	1:0H:213:TYR:HE1	1.70	0.56
35:4C:432:GLU:HG3	35:4C:449:VAL:HG23	1.88	0.56
35:4C:510:LEU:HG	35:4C:513:VAL:HG12	1.88	0.56
35:4C:562:PRO:HB3	35:4C:732:TRP:CD2	2.41	0.56
37:4E:582:GLN:C	43:5L:33:LEU:O	2.47	0.56
37:4E:1184:TRP:CZ3	38:4O:28:VAL:HG22	2.40	0.56
37:4F:582:GLN:CB	43:5K:30:ARG:HD2	2.33	0.56
37:4F:1283:GLY:HA2	39:4S:24:ARG:NH2	2.21	0.56
37:4G:952:ASP:C	37:4G:954:SER:N	2.61	0.56
37:4G:952:ASP:C	37:4G:954:SER:H	2.14	0.56
37:4G:1332:SER:C	37:4G:1333:VAL:HG12	2.31	0.56
37:4H:954:SER:CA	38:4M:48:PRO:N	2.68	0.56
37:4H:1094:ALA:O	37:4H:1338:PHE:CZ	2.57	0.56
38:4I:29:LYS:O	38:4I:33:LYS:HD3	2.04	0.56
38:4J:29:LYS:HA	38:4J:32:GLU:HB3	1.87	0.56
38:4N:29:LYS:O	38:4N:32:GLU:HB3	2.05	0.56
12:4e:206:ALA:O	12:4e:210:ILE:HG23	2.06	0.56
42:5E:139:LEU:HD22	43:5I:141:LEU:HD23	1.83	0.56
42:5H:94:CYS:CB	43:5L:46:PRO:HD3	2.35	0.56
42:5H:135:ARG:HG2	43:5L:55:TYR:N	2.17	0.56
42:5H:136:HIS:ND1	43:5L:51:HIS:HA	2.21	0.56
42:5H:140:TYR:CD1	43:5L:50:ILE:HG13	2.40	0.56
43:5I:111:ARG:HB2	43:5I:115:SER:OG	2.05	0.56
43:5K:51:HIS:CE1	43:5K:146:TYR:OH	2.58	0.56
47:6B:116:ASN:OD1	47:6B:117:LEU:N	2.39	0.56
47:6B:409:ARG:HD2	3:6D:1006:ASP:HB2	1.87	0.56
48:6E:756:GLN:HG2	48:6E:769:GLN:HG2	1.88	0.56
48:6F:1000:ILE:HD11	48:6F:1014:LEU:HD13	1.87	0.56
50:6L:203:ILE:HD13	50:6L:341:VAL:HB	1.87	0.56
51:6M:2272:ARG:NH2	51:6M:2274:GLY:HA3	2.20	0.56
51:6N:1414:VAL:O	51:6N:1418:LEU:HG	2.05	0.56
12:6c:170:VAL:HG11	12:6c:377:MET:SD	2.46	0.56
12:6e:33:THR:CG2	12:6e:35:THR:HG22	2.36	0.56
13:6h:188:VAL:HG13	13:6h:425:LEU:HD22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:7a:274:THR:HG21	12:7a:279:GLN:HA	1.87	0.56
12:7a:377:MET:O	12:7a:381:VAL:HG23	2.06	0.56
13:7d:269:LEU:N	13:7d:379:SER:O	2.33	0.56
13:7f:269:LEU:N	13:7f:379:SER:O	2.33	0.56
12:7g:10:GLY:O	12:7g:14:ASN:ND2	2.38	0.56
12:8g:313:ALA:O	12:8g:349:VAL:HA	2.04	0.56
13:8h:188:VAL:HG13	13:8h:425:LEU:HD22	1.88	0.56
12:Aa:206:ALA:O	12:Aa:210:ILE:HG23	2.06	0.56
13:Ab:188:VAL:HG13	13:Ab:425:LEU:HD22	1.88	0.56
12:Ae:50:TYR:CE2	12:Ae:241:ARG:HD3	2.41	0.56
12:Be:189:VAL:O	12:Be:193:VAL:HG23	2.06	0.56
13:Bf:188:VAL:HG13	13:Bf:425:LEU:HD22	1.88	0.56
12:Bg:306:ARG:HG2	12:Bg:340:TYR:CE1	2.41	0.56
12:Ca:206:ALA:O	12:Ca:210:ILE:HG23	2.06	0.56
1:0I:127:LEU:O	1:0I:131:VAL:HG23	2.06	0.56
1:0I:202:ALA:O	1:0I:206:VAL:HG23	2.06	0.56
1:0B:316:ALA:O	1:0B:320:ILE:HG23	2.06	0.55
1:0C:214:LEU:HD22	1:0C:229:VAL:HG12	1.87	0.55
1:0D:196:LYS:HA	1:0D:239:HIS:HE1	1.71	0.55
1:0D:245:GLU:HA	1:0D:248:VAL:HG22	1.87	0.55
1:0G:227:ARG:HD3	1:0G:266:PHE:HB2	1.87	0.55
1:0N:91:SER:HA	1:0N:99:TYR:HE2	1.70	0.55
1:0O:217:LEU:HB2	1:0O:229:VAL:HG11	1.89	0.55
1:0P:206:VAL:HG21	1:0P:243:LEU:HD22	1.86	0.55
1:0Q:86:PRO:HA	1:0Q:89:VAL:HG12	1.87	0.55
1:0U:196:LYS:HE2	5:1M:585:MET:HG3	1.88	0.55
1:1B:394:ASP:OD1	1:1B:395:ASP:N	2.39	0.55
1:1C:134:LEU:HD11	1:1C:149:LEU:HD12	1.88	0.55
1:1C:245:GLU:HA	1:1C:248:VAL:HG22	1.88	0.55
1:1C:285:LEU:O	1:1C:289:VAL:HG23	2.06	0.55
2:1D:135:VAL:C	2:1D:137:PHE:H	2.14	0.55
2:1F:97:GLN:OE1	2:1F:97:GLN:N	2.35	0.55
2:1F:122:GLY:O	2:1F:126:VAL:HG23	2.06	0.55
3:1H:821:LYS:HA	3:1H:824:VAL:HG12	1.88	0.55
4:1K:190:ALA:HB3	4:1K:223:LYS:HB2	1.87	0.55
6:1N:2110:ALA:HA	6:1N:2113:THR:HG22	1.88	0.55
9:1Q:856:LEU:CB	9:1Q:859:LEU:HD12	2.36	0.55
12:1g:10:GLY:O	12:1g:14:ASN:ND2	2.39	0.55
12:1g:141:GLY:O	12:1g:145:SER:OG	2.21	0.55
24:2T:209:TYR:CE1	12:Cg:261:PRO:HG2	2.41	0.55
12:2e:87:PRO:HD3	12:3e:281:TYR:CD1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2g:172:SER:OG	12:2g:205:GLU:HB2	2.07	0.55
12:2g:284:LEU:CD2	12:2g:362:LYS:HB2	2.36	0.55
34:3M:264:SER:O	34:3M:268:GLN:HG2	2.06	0.55
34:3N:204:MET:CE	34:3Q:288:MET:HB3	2.36	0.55
34:3N:325:ASP:HA	34:3N:328:MET:SD	2.46	0.55
34:3O:263:LYS:O	34:3O:267:GLU:HG2	2.06	0.55
34:3R:250:ARG:HD2	34:3W:247:ASP:CG	2.31	0.55
34:3T:107:TYR:CE2	34:3T:111:ILE:HD11	2.41	0.55
34:3V:252:GLU:OE2	34:3X:488:ARG:NE	2.39	0.55
34:3X:491:GLU:OE2	34:3Z:112:LYS:NZ	2.32	0.55
34:3Y:38:HIS:CE1	34:3Y:452:HIS:CE1	2.94	0.55
37:4E:582:GLN:NE2	43:5L:34:ALA:HA	2.21	0.55
37:4F:1074:GLN:CD	38:4N:41:LYS:CA	2.78	0.55
37:4F:1081:HIS:CD2	37:4F:1338:PHE:CZ	2.92	0.55
37:4G:538:GLU:OE1	37:4G:664:TYR:CZ	2.60	0.55
37:4G:940:ALA:HB2	37:4G:955:GLY:HA3	1.89	0.55
37:4H:1303:VAL:HG12	37:4H:1317:ASP:C	2.30	0.55
38:4K:29:LYS:O	38:4K:32:GLU:HB3	2.05	0.55
38:4K:61:LEU:HA	38:4K:64:GLY:HA3	1.88	0.55
38:4M:29:LYS:HA	38:4M:32:GLU:HB3	1.87	0.55
38:4N:61:LEU:HD22	38:4N:80:LEU:HD21	1.88	0.55
41:5A:117:ALA:N	43:5L:169:LEU:HD21	2.20	0.55
42:5H:93:GLU:N	43:5L:45:ASN:HD21	1.86	0.55
42:5H:139:LEU:CG	43:5L:145:SER:HB2	2.36	0.55
43:5J:48:THR:O	43:5J:51:HIS:HB2	2.06	0.55
43:5J:111:ARG:HB2	43:5J:115:SER:OG	2.05	0.55
44:5Q:55:MET:HE3	44:5Q:79:LYS:HE2	1.88	0.55
12:5a:277:GLY:O	12:5a:281:TYR:HD2	1.88	0.55
12:5a:382:SER:O	12:5a:386:THR:HG23	2.05	0.55
12:5c:86:ARG:HG3	12:6c:281:TYR:HB3	1.88	0.55
47:6A:1047:ALA:O	47:6A:1051:LEU:HG	2.05	0.55
47:6B:11:ASP:HB3	47:6B:12:GLU:OE1	2.06	0.55
47:6B:291:GLN:HB2	3:6D:209:GLU:CD	2.31	0.55
3:6D:547:SER:OG	3:6D:549:VAL:HG23	2.07	0.55
3:6D:839:ASN:HB2	3:6D:842:HIS:HD2	1.68	0.55
49:6I:398:ILE:HG12	49:6I:432:LEU:HD11	1.86	0.55
13:7d:188:VAL:HG13	13:7d:425:LEU:HD22	1.88	0.55
13:7h:188:VAL:HG13	13:7h:425:LEU:HD22	1.88	0.55
12:8c:10:GLY:O	12:8c:14:ASN:ND2	2.39	0.55
12:9a:201:VAL:HG13	12:9a:301:CYS:HB2	1.87	0.55
13:9b:188:VAL:HG13	13:9b:425:LEU:HD22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:9c:313:ALA:O	12:9c:349:VAL:HA	2.05	0.55
12:9c:415:MET:O	12:9c:419:VAL:HG23	2.05	0.55
13:9d:224:TYR:HD2	12:9e:245:GLN:HG2	1.71	0.55
13:9f:188:VAL:HG13	13:9f:425:LEU:HD22	1.88	0.55
13:Ad:188:VAL:HG13	13:Ad:425:LEU:HD22	1.88	0.55
12:Ba:11:GLN:HG3	13:Bb:249:ASN:HB2	1.87	0.55
12:Ce:377:MET:O	12:Ce:381:VAL:HG23	2.06	0.55
12:Cg:134:GLN:HA	12:Cg:165:LEU:O	2.06	0.55
1:0J:282:THR:HB	1:0J:285:LEU:HB2	1.87	0.55
1:0W:262:PHE:HE2	1:0W:264:ASP:HB2	1.69	0.55
1:0B:164:VAL:HG21	1:0B:201:LEU:HD22	1.88	0.55
1:0C:17:ARG:NH1	1:0C:52:ASP:OD1	2.39	0.55
1:0G:193:ASP:O	1:0G:197:HIS:HD2	1.90	0.55
1:0N:38:GLN:HB2	1:0N:75:LEU:HD11	1.88	0.55
1:0N:131:VAL:HA	1:0N:134:LEU:HD12	1.88	0.55
1:0R:37:LEU:HG	1:0R:42:ALA:HB3	1.86	0.55
1:0R:319:TYR:HH	47:6B:273:GLY:C	2.09	0.55
1:0T:88:LEU:O	1:0T:91:SER:HB3	2.06	0.55
1:0T:126:ALA:O	1:0T:129:SER:OG	2.23	0.55
1:0Y:286:ALA:O	1:0Y:290:VAL:HG23	2.07	0.55
1:0Z:342:SER:HA	1:0Z:345:ASN:ND2	2.21	0.55
1:1B:214:LEU:HB3	1:1B:229:VAL:HG23	1.87	0.55
3:1H:991:ILE:HD13	47:6A:399:LYS:HA	1.87	0.55
3:1H:1007:ARG:HB2	3:1H:1009:ARG:HG2	1.88	0.55
4:1K:25:LYS:HE2	13:Bd:415:GLU:HB2	1.87	0.55
5:1M:415:TYR:HD1	5:1M:440:LYS:H	1.52	0.55
6:1N:1171:ARG:HH12	6:1N:1201:GLU:HG3	1.71	0.55
6:1N:1191:GLU:O	6:1N:1195:VAL:HG13	2.05	0.55
7:1O:956:ALA:CB	13:7b:402:ARG:HG3	2.36	0.55
7:1O:2093:LEU:HD12	7:1O:2559:GLU:OE2	2.05	0.55
7:1O:2499:ASN:HA	8:1P:800:TYR:CE1	2.41	0.55
7:1O:2502:LEU:HB3	8:1P:800:TYR:CE1	2.41	0.55
10:1S:329:ARG:C	10:1S:331:TRP:H	2.13	0.55
12:1e:208:TYR:CE1	13:1f:326:LYS:HB2	2.41	0.55
21:2O:15:UNK:O	21:2O:17:UNK:N	2.39	0.55
24:2V:120:THR:HA	24:2V:123:HIS:CD2	2.41	0.55
13:2f:188:VAL:HG13	13:2f:425:LEU:HD22	1.88	0.55
30:3F:631:LEU:HA	30:3F:634:LYS:HD3	1.88	0.55
30:3G:539:LEU:O	13:8h:308:ARG:NH1	2.38	0.55
33:3L:28:LEU:HG	33:3L:47:LEU:HD11	1.89	0.55
34:3M:42:LEU:HD13	34:3M:453:ARG:HE	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3V:196:LEU:CD2	34:3Z:48:HIS:HB3	2.36	0.55
34:4A:342:GLN:NE2	34:4A:390:LEU:HD21	2.22	0.55
34:4A:352:LEU:HB3	34:4A:356:PHE:HE1	1.71	0.55
35:4C:934:THR:O	35:4C:938:VAL:HG23	2.06	0.55
37:4E:575:SER:O	43:5L:31:ASP:OD1	2.24	0.55
37:4E:578:ASP:HA	43:5L:43:GLN:HE21	1.70	0.55
37:4F:810:VAL:HG12	37:4F:1626:VAL:HG12	1.87	0.55
37:4G:969:LEU:C	37:4G:1074:GLN:HB2	2.31	0.55
37:4H:431:ALA:HB1	38:4M:83:TYR:CA	2.34	0.55
37:4H:1084:ARG:HH21	38:4M:40:LYS:CB	2.19	0.55
37:4H:1138:VAL:HG12	38:4M:33:LYS:CB	2.36	0.55
37:4H:1144:LEU:HD23	37:4H:1156:LEU:HD12	1.87	0.55
37:4H:1626:VAL:HG22	37:4H:1634:PHE:O	2.06	0.55
38:4I:29:LYS:O	38:4I:32:GLU:HB3	2.05	0.55
40:4T:457:THR:O	40:4T:484:ILE:HA	2.05	0.55
42:5E:143:VAL:HA	43:5I:144:TYR:HE2	1.66	0.55
42:5H:96:ALA:HB3	43:5L:44:THR:CB	2.37	0.55
43:5L:5:LEU:HA	43:5L:8:LYS:HG3	1.88	0.55
43:5L:7:TRP:CE3	43:5L:10:LEU:O	2.60	0.55
12:5g:86:ARG:HG3	12:6g:281:TYR:HB3	1.88	0.55
47:6A:11:ASP:HB3	47:6A:12:GLU:OE1	2.06	0.55
47:6A:821:LEU:HD13	47:6A:824:VAL:HG23	1.88	0.55
47:6A:839:ALA:HB3	47:6A:883:ILE:HD11	1.87	0.55
47:6B:821:LEU:HD13	47:6B:824:VAL:HG23	1.88	0.55
48:6E:1000:ILE:HD11	48:6E:1014:LEU:HD13	1.87	0.55
49:6H:358:GLN:HE22	49:6H:436:GLN:NE2	1.97	0.55
49:6H:398:ILE:HG12	49:6H:432:LEU:HD11	1.86	0.55
51:6M:1370:LYS:HD3	51:6M:1372:TYR:CE2	2.42	0.55
12:6a:112:LEU:HD11	12:6a:147:MET:CE	2.36	0.55
12:7a:210:ILE:O	12:7a:214:THR:HG22	2.07	0.55
13:7f:188:VAL:HG13	13:7f:425:LEU:HD22	1.88	0.55
12:7g:170:VAL:CG2	12:7g:201:VAL:HG13	2.37	0.55
12:8e:376:GLU:HA	12:8e:379:LYS:HG2	1.87	0.55
12:Ac:10:GLY:O	12:Ac:14:ASN:ND2	2.39	0.55
13:Af:188:VAL:HG13	13:Af:425:LEU:HD22	1.88	0.55
13:Ah:188:VAL:HG13	13:Ah:425:LEU:HD22	1.88	0.55
12:Bg:10:GLY:O	12:Bg:14:ASN:ND2	2.39	0.55
12:Ce:276:ARG:HA	12:Ce:279:GLN:HE21	1.70	0.55
13:Ch:188:VAL:HG13	13:Ch:425:LEU:HD22	1.88	0.55
12:Da:395:LEU:HD21	12:Da:405:GLU:OE1	2.05	0.55
1:0W:193:ASP:O	1:0W:197:HIS:HD2	1.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0W:214:LEU:HD22	1:0W:229:VAL:HG12	1.87	0.55
1:0W:217:LEU:HB2	1:0W:229:VAL:HG11	1.88	0.55
1:0K:282:THR:OG1	1:0K:285:LEU:HG	2.06	0.55
1:0K:417:LEU:HD13	1:0K:435:GLU:HA	1.87	0.55
1:0B:233:LEU:HD22	1:0B:252:ILE:HD13	1.88	0.55
1:0C:70:ASN:OD1	1:0C:112:ARG:NH2	2.38	0.55
1:0C:358:TRP:CD1	1:0C:362:GLN:HE22	2.24	0.55
1:0D:131:VAL:HG13	1:0D:171:LEU:HD11	1.87	0.55
1:0G:262:PHE:HE2	1:0G:264:ASP:HB2	1.70	0.55
1:0O:368:PRO:HG3	1:0O:410:LYS:HD2	1.88	0.55
1:0R:137:PHE:CZ	4:1K:72:PHE:HB3	2.41	0.55
1:0U:371:ALA:CB	1:0U:411:LEU:HD23	2.34	0.55
1:0Y:164:VAL:HG21	1:0Y:201:LEU:HD22	1.89	0.55
2:1F:189:LEU:O	2:1F:193:VAL:HG23	2.07	0.55
3:1H:946:VAL:HA	3:1H:949:LYS:HG3	1.88	0.55
3:1H:988:TRP:CZ3	47:6A:398:GLU:HB3	2.40	0.55
6:1N:613:TRP:CE3	6:1N:616:LEU:HD12	2.41	0.55
10:1R:232:MET:HE1	31:3H:143:GLU:HA	1.87	0.55
13:1b:406:HIS:CD2	12:1c:261:PRO:HD3	2.41	0.55
15:2H:131:UNK:HA	12:9g:217:LEU:HA	1.89	0.55
24:2U:143:SER:HA	13:Cd:116:ASP:OD2	2.06	0.55
12:2a:186:THR:HG21	12:2a:385:PHE:CD1	2.41	0.55
13:2b:188:VAL:HG13	13:2b:425:LEU:HD22	1.88	0.55
12:2e:257:LEU:HA	12:2e:312:THR:HG21	1.88	0.55
13:2h:317:LEU:HB3	13:2h:319:TYR:HE1	1.72	0.55
32:3K:395:VAL:HG11	13:8h:410:GLY:HA2	1.88	0.55
34:3O:86:GLN:O	34:3O:90:GLU:HG2	2.06	0.55
34:3O:405:ALA:HA	34:3O:408:ARG:HE	1.71	0.55
34:3S:42:LEU:HD13	34:3S:453:ARG:HE	1.71	0.55
34:3X:48:HIS:HB3	34:4A:196:LEU:CD2	2.36	0.55
35:4C:295:PRO:HG2	35:4C:313:VAL:HA	1.87	0.55
35:4C:407:VAL:HA	35:4C:504:VAL:O	2.06	0.55
37:4E:586:PHE:HB3	43:5L:15:LEU:HA	1.87	0.55
37:4E:1323:ILE:HG23	37:4E:1333:VAL:HG22	1.88	0.55
37:4F:972:PHE:CE2	37:4F:974:VAL:HG23	2.42	0.55
37:4F:1079:SER:OG	37:4F:1081:HIS:CD2	2.60	0.55
37:4F:1323:ILE:HA	38:4N:26:GLU:HB3	0.57	0.55
37:4F:1328:ASP:OD1	37:4F:1329:GLY:N	2.39	0.55
37:4F:1719:LEU:HD12	37:4F:1741:VAL:HG11	1.89	0.55
37:4G:1283:GLY:O	37:4G:1300:GLU:HB2	2.06	0.55
37:4G:1316:GLN:HA	37:4G:1322:ARG:H	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:672:PHE:O	38:4J:39:HIS:ND1	2.39	0.55
38:4I:82:TYR:N	38:4I:82:TYR:CD1	2.70	0.55
38:4J:29:LYS:C	38:4J:32:GLU:HB3	2.31	0.55
38:4N:29:LYS:HA	38:4N:32:GLU:HB3	1.87	0.55
40:4U:460:ASP:HA	40:4U:488:GLY:HA3	1.89	0.55
40:4V:457:THR:O	40:4V:484:ILE:HA	2.05	0.55
40:4V:531:SER:O	40:4V:614:LEU:HD11	2.06	0.55
12:4g:11:GLN:HA	12:4g:72:THR:HG21	1.88	0.55
42:5H:138:ARG:C	42:5H:141:GLN:H	2.15	0.55
42:5H:158:MET:HA	43:5L:158:HIS:CG	2.41	0.55
43:5J:165:LEU:HG	43:5J:166:ALA:N	2.21	0.55
43:5K:7:TRP:CE3	43:5K:10:LEU:O	2.60	0.55
47:6A:196:GLN:NE2	47:6A:200:GLN:HE21	2.01	0.55
47:6B:994:LYS:HD2	47:6B:994:LYS:N	2.20	0.55
3:6D:192:ARG:NH1	3:6D:287:GLU:OE2	2.39	0.55
49:6G:398:ILE:HG12	49:6G:432:LEU:HD11	1.86	0.55
49:6J:398:ILE:HG12	49:6J:432:LEU:HD11	1.86	0.55
49:6J:412:MET:HA	49:6J:436:GLN:HG3	1.89	0.55
51:6N:1370:LYS:HD3	51:6N:1372:TYR:CE2	2.42	0.55
12:7e:153:SER:O	12:7e:157:GLU:HG3	2.06	0.55
12:8g:139:LEU:HD12	12:8g:170:VAL:HG22	1.87	0.55
13:Bd:188:VAL:HG13	13:Bd:425:LEU:HD22	1.88	0.55
13:Cd:188:VAL:HG13	13:Cd:425:LEU:HD22	1.88	0.55
12:Ce:397:TRP:HZ2	13:Cf:260:VAL:HB	1.71	0.55
12:Da:201:VAL:HG12	12:Da:266:PHE:O	2.06	0.55
1:0H:206:VAL:HG21	1:0H:243:LEU:HD22	1.86	0.55
1:0J:85:LEU:HA	1:0J:88:LEU:HD12	1.88	0.55
1:0B:131:VAL:HG13	1:0B:171:LEU:HD11	1.89	0.55
1:0D:89:VAL:HG11	1:0D:125:GLY:HA3	1.89	0.55
1:0G:202:ALA:O	1:0G:206:VAL:HG23	2.07	0.55
1:0M:65:LEU:HD21	1:0M:84:ILE:HG21	1.88	0.55
1:0N:286:ALA:HB1	1:0N:320:ILE:HG12	1.87	0.55
1:0O:46:LEU:HB3	1:0O:65:LEU:CD2	2.35	0.55
1:0Q:128:ASP:O	1:0Q:132:THR:HG23	2.06	0.55
1:0S:262:PHE:CD1	1:0S:263:PRO:HD2	2.42	0.55
1:0S:349:GLU:HB3	1:0S:351:HIS:CE1	2.40	0.55
1:0U:53:ASN:OD1	1:0U:54:VAL:N	2.40	0.55
1:0X:358:TRP:CD1	1:0X:362:GLN:HE22	2.23	0.55
1:0Z:233:LEU:HD13	1:0Z:252:ILE:HG21	1.88	0.55
1:0Z:358:TRP:CD1	1:0Z:362:GLN:HE22	2.24	0.55
3:1H:509:ARG:O	3:1H:513:LEU:HG	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1H:951:TYR:CE1	3:1H:959:PHE:HZ	2.25	0.55
3:1H:984:GLN:CB	47:6A:395:VAL:HG21	2.37	0.55
3:1H:1006:ASP:O	47:6A:409:ARG:HD2	2.06	0.55
4:1J:190:ALA:HB3	4:1J:223:LYS:HB2	1.87	0.55
10:1R:237:SER:N	32:3J:122:CYS:SG	2.66	0.55
14:2G:85:PHE:HD2	12:Ce:217:LEU:HD11	1.70	0.55
24:2U:211:ARG:HB3	13:Cb:409:VAL:HG11	1.88	0.55
13:2b:207:GLU:OE1	13:2b:304:LYS:NZ	2.30	0.55
13:2b:269:LEU:N	13:2b:379:SER:O	2.33	0.55
13:2d:317:LEU:HB3	13:2d:319:TYR:HE1	1.72	0.55
13:2f:269:LEU:N	13:2f:379:SER:O	2.33	0.55
13:2f:317:LEU:HB3	13:2f:319:TYR:HE1	1.72	0.55
29:3E:1194:GLN:CD	13:5d:159:VAL:HG21	2.31	0.55
30:3F:301:VAL:HG12	13:6f:264:ARG:CG	2.36	0.55
30:3F:387:LEU:HG	13:8f:339:ARG:HD2	1.87	0.55
31:3I:150:GLU:O	31:3I:154:LEU:HG	2.05	0.55
34:3M:34:PHE:CE1	34:3M:273:ARG:HD2	2.42	0.55
34:3M:81:GLU:HA	34:3M:84:GLU:HG2	1.88	0.55
34:3M:480:ALA:HA	34:3M:483:GLU:HG3	1.89	0.55
34:3O:453:ARG:HA	34:3O:456:LEU:CD2	2.35	0.55
34:3P:108:SER:O	34:3P:112:LYS:HG2	2.07	0.55
34:3P:496:TYR:HA	34:3S:259:MET:HE1	1.88	0.55
34:3P:496:TYR:HE1	34:3S:471:ARG:HA	1.72	0.55
34:3R:248:PHE:HB3	34:3W:488:ARG:CZ	2.35	0.55
34:3R:384:ASN:HA	34:3R:387:VAL:HG12	1.87	0.55
34:3V:386:HIS:CE1	34:3V:390:LEU:HD11	2.42	0.55
34:3W:70:GLU:CD	34:3W:189:PRO:HB3	2.32	0.55
13:3b:188:VAL:HG13	13:3b:425:LEU:HD22	1.88	0.55
13:3h:196:GLU:O	39:4Q:174:ALA:N	2.40	0.55
35:4C:393:PRO:HA	35:4C:422:GLY:O	2.07	0.55
35:4C:735:LEU:HG	35:4C:737:VAL:HG13	1.88	0.55
36:4D:25:VAL:N	36:4D:99:GLU:OE2	2.33	0.55
37:4E:575:SER:C	43:5L:30:ARG:O	2.48	0.55
37:4E:1525:LEU:HD11	37:4E:1611:ILE:CG2	2.34	0.55
37:4F:1074:GLN:OE1	38:4N:41:LYS:HG2	2.05	0.55
37:4F:1333:VAL:CA	38:4N:30:ALA:H	2.13	0.55
37:4G:970:SER:N	37:4G:1074:GLN:HB2	2.21	0.55
37:4G:1333:VAL:CG2	38:4L:26:GLU:N	2.68	0.55
37:4G:1709:LEU:HD22	38:4L:28:VAL:CG2	2.36	0.55
37:4G:1719:LEU:HD12	37:4G:1741:VAL:HG21	1.89	0.55
37:4H:903:THR:HG23	37:4H:905:ALA:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1092:LEU:N	38:4M:34:ALA:C	2.65	0.55
37:4H:1349:THR:C	37:4H:1350:ILE:HG13	2.31	0.55
38:4I:29:LYS:HA	38:4I:32:GLU:HB3	1.87	0.55
38:4J:61:LEU:HD22	38:4J:80:LEU:HD21	1.87	0.55
38:4L:65:MET:O	38:4L:69:CYS:CB	2.50	0.55
39:4R:123:LYS:O	39:4R:127:GLU:HG3	2.06	0.55
12:4a:282:ARG:HH21	12:4a:288:GLU:HG3	1.71	0.55
13:4d:317:LEU:HB3	13:4d:319:TYR:HE1	1.72	0.55
42:5H:127:ALA:HA	42:5H:130:ALA:HB3	1.88	0.55
42:5H:158:MET:CG	43:5L:159:PRO:HG2	2.37	0.55
43:5J:5:LEU:HA	43:5J:8:LYS:HG3	1.88	0.55
47:6B:1047:ALA:O	47:6B:1051:LEU:HG	2.05	0.55
48:6F:756:GLN:HG2	48:6F:769:GLN:HG2	1.88	0.55
49:6H:344:ASP:HB3	49:6H:347:PRO:HD2	1.87	0.55
49:6I:412:MET:HA	49:6I:436:GLN:HG3	1.89	0.55
51:6N:2149:ALA:HB2	51:6N:2273:THR:HG21	1.87	0.55
12:Ae:396:HIS:NE2	13:Af:261:PRO:O	2.39	0.55
12:Ba:99:ASN:HA	12:Ba:142:GLY:H	1.71	0.55
12:Bc:10:GLY:O	12:Bc:14:ASN:ND2	2.39	0.55
13:Cb:56:THR:HG22	13:Db:285:GLN:HG2	1.88	0.55
12:Da:207:LEU:HB3	12:Da:225:LEU:HD22	1.88	0.55
12:De:207:LEU:HB3	12:De:225:LEU:HD22	1.89	0.55
1:0J:230:CYS:HB2	1:0J:270:HIS:HB3	1.87	0.55
1:0W:344:LEU:HD11	1:0W:386:LEU:HD11	1.88	0.55
1:0K:219:ILE:HG12	1:0K:255:LYS:HG2	1.87	0.55
1:0A:47:ARG:HH22	47:6B:117:LEU:HD13	1.70	0.55
1:0B:170:PRO:O	1:0B:174:LEU:HG	2.07	0.55
1:0D:198:THR:HB	1:0D:201:LEU:HG	1.87	0.55
1:0E:225:LEU:O	1:0E:229:VAL:HG22	2.06	0.55
1:0E:230:CYS:HB2	1:0E:270:HIS:HB3	1.88	0.55
1:0L:233:LEU:HD13	1:0L:252:ILE:HG21	1.89	0.55
1:0M:217:LEU:HB2	1:0M:229:VAL:HG11	1.87	0.55
1:0N:88:LEU:O	1:0N:91:SER:HB3	2.06	0.55
1:0Q:367:THR:HB	1:0Q:370:HIS:HD1	1.71	0.55
1:0X:127:LEU:HD13	1:0X:130:LEU:HD12	1.88	0.55
1:0Y:320:ILE:HB	1:0Y:327:LEU:HD22	1.87	0.55
1:1B:117:LEU:O	1:1B:121:VAL:HG23	2.06	0.55
2:1D:465:ASP:CB	6:1N:2007:ALA:HA	2.36	0.55
2:1F:207:LYS:CG	2:1F:211:HIS:HE1	2.17	0.55
3:1H:845:ILE:O	3:1H:848:ARG:HG3	2.07	0.55
10:1R:347:LEU:HD22	12:Ac:402:GLY:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1R:398:VAL:HG13	13:Ab:123:ARG:NH2	2.20	0.55
12:1c:114:ASP:OD1	12:1c:115:SER:N	2.39	0.55
13:1f:317:LEU:HB3	13:1f:319:TYR:HE1	1.72	0.55
14:2G:157:ALA:HA	12:Ae:276:ARG:HH11	1.70	0.55
12:2a:163:MET:CE	12:2a:197:ASP:HB2	2.32	0.55
13:2b:317:LEU:HB3	13:2b:319:TYR:HE1	1.72	0.55
13:2d:188:VAL:HG13	13:2d:425:LEU:HD22	1.88	0.55
13:2h:188:VAL:HG13	13:2h:425:LEU:HD22	1.88	0.55
30:3F:638:LEU:HD13	30:3F:642:ARG:NH2	2.21	0.55
30:3G:527:PHE:CE2	30:3G:544:LEU:HD12	2.41	0.55
30:3G:529:PRO:HB2	30:3G:545:VAL:HG13	1.88	0.55
31:3I:467:ARG:HD2	13:8f:429:GLU:OE1	2.05	0.55
34:3M:96:HIS:O	34:3M:100:ILE:HG13	2.06	0.55
34:3M:191:ALA:HA	34:3M:194:ARG:HD3	1.86	0.55
34:3N:486:ARG:HA	34:3N:489:MET:CE	2.37	0.55
34:3R:254:MET:HB3	34:3R:258:TYR:HE2	1.71	0.55
34:3S:191:ALA:HA	34:3S:194:ARG:HD3	1.87	0.55
34:3T:74:LEU:HD21	34:3T:191:ALA:HB1	1.88	0.55
12:3a:50:TYR:CE2	12:3a:241:ARG:HD3	2.41	0.55
12:3e:171:PRO:HG3	12:3e:181:GLU:HG2	1.87	0.55
34:4B:70:GLU:CD	34:4B:189:PRO:HB3	2.31	0.55
35:4C:293:VAL:HG12	35:4C:295:PRO:HD2	1.88	0.55
35:4C:314:ARG:HA	35:4C:355:ALA:O	2.07	0.55
35:4C:570:ALA:CA	37:4E:1762:GLU:OE1	2.54	0.55
37:4E:576:ALA:N	43:5L:30:ARG:O	2.37	0.55
37:4E:581:LEU:CA	43:5L:34:ALA:CA	2.84	0.55
37:4F:598:LEU:HD23	37:4F:1775:LEU:HB2	1.89	0.55
37:4F:616:TRP:CZ2	37:4F:1338:PHE:C	2.80	0.55
37:4F:933:ARG:HB3	37:4F:935:ARG:NE	2.21	0.55
37:4G:429:TYR:HD2	37:4G:854:TYR:HE1	1.55	0.55
37:4G:688:LEU:HD13	37:4G:782:PRO:HB3	1.87	0.55
37:4G:1081:HIS:CG	37:4G:1338:PHE:CZ	2.94	0.55
37:4H:954:SER:CA	38:4M:48:PRO:CA	2.85	0.55
37:4H:1366:VAL:HG12	37:4H:1380:ALA:HA	1.88	0.55
38:4J:30:ALA:C	38:4J:33:LYS:N	2.52	0.55
38:4J:40:LYS:HE3	38:4J:44:LEU:HD12	1.88	0.55
38:4K:45:ALA:C	38:4K:47:ALA:H	2.12	0.55
38:4L:29:LYS:HA	38:4L:32:GLU:HB3	1.87	0.55
38:4L:61:LEU:HD22	38:4L:80:LEU:HD21	1.87	0.55
38:4M:61:LEU:HD22	38:4M:80:LEU:HD21	1.87	0.55
38:4N:30:ALA:C	38:4N:33:LYS:N	2.52	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:4T:460:ASP:HA	40:4T:488:GLY:HA3	1.89	0.55
12:4c:140:GLY:HA3	12:4c:181:GLU:OE1	2.06	0.55
13:4f:317:LEU:HB3	13:4f:319:TYR:HE1	1.72	0.55
13:4h:317:LEU:HB3	13:4h:319:TYR:HE1	1.72	0.55
41:5A:21:GLY:CA	43:5L:191:LYS:CB	2.85	0.55
42:5H:96:ALA:C	43:5L:44:THR:HB	2.32	0.55
42:5H:137:TYR:OH	43:5L:45:ASN:OD1	2.22	0.55
43:5L:165:LEU:HG	43:5L:166:ALA:N	2.21	0.55
13:5b:100:ALA:HB1	12:5c:252:LYS:HA	1.88	0.55
47:6A:243:GLU:O	47:6A:247:VAL:HG23	2.05	0.55
47:6B:347:ARG:O	47:6B:350:ARG:HB3	2.06	0.55
3:6D:899:LEU:HD21	3:6D:905:PRO:HB3	1.89	0.55
48:6F:997:ARG:NH1	50:6L:427:PRO:HG2	2.21	0.55
12:7c:232:VAL:HG21	12:7c:300:MET:SD	2.47	0.55
12:7c:272:PRO:HD3	12:7c:364:SER:HA	1.88	0.55
12:8e:68:LEU:HD23	12:8e:143:THR:HG23	1.89	0.55
12:8g:174:LYS:HG2	12:8g:175:VAL:HG23	1.88	0.55
12:9a:99:ASN:HA	12:9a:142:GLY:H	1.72	0.55
12:Aa:208:TYR:CZ	12:Aa:225:LEU:HD11	2.42	0.55
12:Ae:102:ALA:HB1	12:Ae:401:GLU:OE1	2.06	0.55
12:Ba:177:ASP:OD2	13:Bb:248:LEU:HD21	2.06	0.55
13:Bb:248:LEU:HB3	13:Bb:354:GLY:HA2	1.89	0.55
13:Bd:248:LEU:HB3	13:Bd:354:GLY:HA2	1.89	0.55
13:Bh:188:VAL:HG13	13:Bh:425:LEU:HD22	1.88	0.55
13:Cb:188:VAL:HG13	13:Cb:425:LEU:HD22	1.88	0.55
13:Cf:188:VAL:HG13	13:Cf:425:LEU:HD22	1.88	0.55
13:Db:317:LEU:HB3	13:Db:319:TYR:HE1	1.72	0.55
12:Dc:391:ARG:NH2	13:Dd:438:GLU:O	2.39	0.55
1:0W:202:ALA:O	1:0W:206:VAL:HG23	2.07	0.55
1:0D:164:VAL:HG21	1:0D:201:LEU:HD22	1.87	0.55
1:0E:134:LEU:HB3	1:0E:171:LEU:HD12	1.88	0.55
1:0E:361:GLY:HA2	1:0E:403:ALA:HA	1.88	0.55
1:0F:217:LEU:HB2	1:0F:229:VAL:HG11	1.88	0.55
1:0F:346:GLU:HG3	1:0F:347:GLU:OE1	2.07	0.55
1:0V:185:ARG:HD2	1:0V:224:LYS:CG	2.35	0.55
1:0Y:285:LEU:O	1:0Y:289:VAL:HG23	2.06	0.55
1:0Z:70:ASN:OD1	1:0Z:112:ARG:NH2	2.38	0.55
1:1A:59:GLN:NE2	5:1L:597:LYS:HB3	2.22	0.55
1:1B:262:PHE:CD1	1:1B:263:PRO:HD2	2.41	0.55
2:1D:82:LEU:HD11	2:1D:118:PRO:HB2	1.87	0.55
3:1H:988:TRP:CE2	3:1H:1013:GLY:HA3	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1H:991:ILE:HD13	47:6A:399:LYS:CA	2.37	0.55
3:1I:505:GLY:HA3	3:1I:549:VAL:CG1	2.37	0.55
5:1L:139:THR:HA	5:1L:163:PRO:HA	1.88	0.55
5:1M:561:ARG:HA	13:1f:434:GLU:OE1	2.06	0.55
6:1N:664:ALA:HB1	6:1N:705:VAL:HG12	1.89	0.55
6:1N:2150:ALA:HB3	6:1N:2172:ALA:HB2	1.87	0.55
7:1O:80:TYR:HB3	7:1O:125:CYS:HB3	1.88	0.55
7:1O:2893:HIS:O	7:1O:2897:GLN:HG3	2.07	0.55
10:1R:57:LYS:HE3	13:Ad:339:ARG:NH1	2.20	0.55
13:1b:317:LEU:HB3	13:1b:319:TYR:HE1	1.72	0.55
12:1c:10:GLY:O	12:1c:14:ASN:ND2	2.39	0.55
13:1d:317:LEU:HB3	13:1d:319:TYR:HE1	1.72	0.55
12:1e:257:LEU:HA	12:1e:312:THR:HG21	1.87	0.55
12:1g:21:TRP:HA	12:1g:24:VAL:HG22	1.86	0.55
13:1h:317:LEU:HB3	13:1h:319:TYR:HE1	1.72	0.55
14:2F:135:ARG:HH22	13:Ab:36:MET:CE	2.19	0.55
14:2G:18:THR:O	14:2G:21:SER:HB2	2.07	0.55
14:2G:44:LYS:N	12:De:74:ASP:OD2	2.39	0.55
23:2Q:96:UNK:CB	12:3e:337:ASN:HA	2.37	0.55
24:2U:130:ALA:HB2	24:2U:152:GLU:HB2	1.87	0.55
24:2V:144:LYS:HD3	24:2V:165:LEU:HD13	1.88	0.55
29:3E:1154:ARG:HD3	29:3E:1158:ARG:HH12	1.71	0.55
30:3G:542:MET:HB2	13:7h:156:ARG:NH2	2.21	0.55
30:3G:755:ARG:HE	12:6a:407:GLU:CG	2.20	0.55
31:3I:493:LYS:HB3	31:3I:496:LEU:HD12	1.88	0.55
32:3J:103:MET:HG2	12:Ac:425:TYR:CE1	2.41	0.55
34:3N:485:TYR:O	34:3N:489:MET:HG3	2.07	0.55
34:3Q:82:ILE:HG23	34:3Q:408:ARG:HD2	1.88	0.55
34:3X:270:ILE:HD13	34:3X:273:ARG:HH21	1.71	0.55
34:3Y:103:LEU:HD12	34:3Y:338:LEU:HG	1.87	0.55
13:3d:188:VAL:HG13	13:3d:425:LEU:HD22	1.88	0.55
12:3e:60:VAL:CG2	12:3e:86:ARG:HG2	2.34	0.55
36:4D:121:ASN:OD1	36:4D:122:HIS:CD2	2.60	0.55
36:4D:157:PRO:HA	36:4D:188:ARG:HH12	1.71	0.55
37:4E:543:ASN:HD22	38:4O:66:GLN:HE21	1.55	0.55
37:4E:691:MET:HA	38:4P:62:MET:HE1	1.87	0.55
37:4G:537:LEU:HD21	38:4I:53:LEU:HD11	1.87	0.55
37:4G:692:MET:H	38:4I:59:PRO:CG	2.20	0.55
37:4H:1719:LEU:HB2	37:4H:1741:VAL:HG22	1.88	0.55
38:4I:29:LYS:C	38:4I:32:GLU:HB3	2.31	0.55
38:4I:38:VAL:HA	38:4I:41:LYS:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4I:47:ALA:O	38:4I:48:PRO:C	2.49	0.55
38:4I:61:LEU:HA	38:4I:64:GLY:HA3	1.88	0.55
38:4J:53:LEU:HD21	38:4M:72:ARG:CD	2.36	0.55
38:4K:65:MET:O	38:4K:69:CYS:CB	2.50	0.55
38:4L:38:VAL:C	38:4L:41:LYS:H	2.15	0.55
38:4M:29:LYS:C	38:4M:32:GLU:HB3	2.31	0.55
38:4M:40:LYS:HE3	38:4M:44:LEU:HD12	1.88	0.55
38:4N:28:VAL:HG12	38:4N:29:LYS:HG2	1.89	0.55
40:4U:475:ALA:HA	40:4U:478:LEU:HD12	1.89	0.55
12:4a:11:GLN:HA	12:4a:72:THR:HG21	1.89	0.55
12:4a:132:GLY:HA3	12:4a:163:MET:HG3	1.88	0.55
12:4a:176:SER:OG	13:4b:349:THR:HB	2.06	0.55
13:4b:317:LEU:HB3	13:4b:319:TYR:HE1	1.72	0.55
12:4g:101:TRP:HD1	12:4g:145:SER:OG	1.90	0.55
42:5H:135:ARG:CA	43:5L:52:LEU:CB	2.84	0.55
43:5I:5:LEU:HA	43:5I:8:LYS:HG3	1.88	0.55
43:5J:7:TRP:CE3	43:5J:10:LEU:O	2.60	0.55
43:5K:5:LEU:HA	43:5K:8:LYS:HG3	1.88	0.55
43:5K:149:ARG:HG2	43:5K:150:VAL:H	1.71	0.55
12:5a:165:LEU:HD22	12:5a:250:LEU:HD21	1.88	0.55
47:6A:347:ARG:O	47:6A:350:ARG:HB3	2.06	0.55
47:6B:243:GLU:O	47:6B:247:VAL:HG23	2.05	0.55
47:6B:1923:ALA:O	47:6B:1927:THR:HG23	2.06	0.55
49:6G:344:ASP:HB3	49:6G:347:PRO:HD2	1.87	0.55
51:6M:1347:LEU:HD23	51:6M:1438:ARG:HG2	1.89	0.55
51:6N:1347:LEU:HD23	51:6N:1438:ARG:HG2	1.89	0.55
12:6a:377:MET:O	12:6a:381:VAL:HG23	2.06	0.55
12:6c:151:LEU:O	12:6c:155:ILE:HG12	2.07	0.55
12:6c:397:TRP:CG	13:6d:257:THR:HG22	2.41	0.55
13:7h:269:LEU:N	13:7h:379:SER:O	2.33	0.55
13:9d:248:LEU:HB3	13:9d:354:GLY:HA2	1.89	0.55
12:9g:207:LEU:O	12:9g:210:ILE:HG22	2.07	0.55
13:9h:248:LEU:HB3	13:9h:354:GLY:HA2	1.89	0.55
13:Bf:248:LEU:HB3	13:Bf:354:GLY:HA2	1.89	0.55
13:Dd:317:LEU:HB3	13:Dd:319:TYR:HE1	1.72	0.55
13:Df:317:LEU:HB3	13:Df:319:TYR:HE1	1.72	0.55
13:Dh:317:LEU:HB3	13:Dh:319:TYR:HE1	1.72	0.55
1:0J:133:CYS:SG	1:0J:141:VAL:HG22	2.47	0.55
1:0B:245:GLU:OE1	1:0B:285:LEU:HD11	2.07	0.55
1:0E:363:ILE:HG22	1:0E:370:HIS:HB3	1.88	0.55
1:0L:37:LEU:HG	1:0L:42:ALA:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0M:80:VAL:HG22	1:0M:85:LEU:HD11	1.88	0.55
1:0M:227:ARG:HD3	1:0M:266:PHE:HB2	1.89	0.55
1:0O:322:ALA:HB2	1:0O:362:GLN:HG2	1.88	0.55
1:0S:245:GLU:HA	1:0S:248:VAL:HG22	1.88	0.55
1:0T:343:ALA:O	1:0T:347:GLU:HG3	2.06	0.55
1:0U:131:VAL:HG13	1:0U:171:LEU:HD11	1.87	0.55
1:0Z:322:ALA:HB2	1:0Z:362:GLN:HG2	1.89	0.55
1:1A:186:ILE:HD13	5:1L:588:ARG:NH1	2.22	0.55
1:1C:227:ARG:HG3	1:1C:267:VAL:HG22	1.87	0.55
3:1H:1009:ARG:HH11	48:6F:353:ILE:HB	1.71	0.55
6:1N:1831:ALA:HB1	6:1N:1833:LYS:HG3	1.87	0.55
10:1R:205:ALA:HA	10:1R:208:MET:HE3	1.87	0.55
10:1S:424:THR:HG21	12:Be:218:THR:HA	1.89	0.55
14:2G:92:GLU:HG3	14:2G:102:ALA:HA	1.88	0.55
15:2H:65:UNK:HA	12:Bg:92:PHE:HE2	1.72	0.55
30:3F:372:GLU:HG2	13:8f:390:ARG:CG	2.37	0.55
34:3M:100:ILE:HG12	34:3M:338:LEU:CD2	2.37	0.55
34:3M:327:VAL:HG11	34:3M:404:HIS:HB3	1.88	0.55
34:3N:204:MET:N	34:3N:204:MET:HE2	2.22	0.55
34:3O:38:HIS:O	34:3O:42:LEU:HG	2.07	0.55
34:3O:44:LYS:HD3	34:3T:80:LEU:HD23	1.88	0.55
34:3O:280:TRP:HB2	34:3O:452:HIS:CE1	2.42	0.55
34:3P:49:PHE:CZ	34:3P:53:ILE:HD11	2.42	0.55
34:3Q:276:GLU:HG3	34:3Q:452:HIS:CE1	2.41	0.55
34:3S:109:LEU:HA	34:3S:112:LYS:HE2	1.89	0.55
34:3W:366:VAL:HG22	37:4G:904:ALA:HB1	1.88	0.55
12:3e:257:LEU:HA	12:3e:312:THR:HG21	1.88	0.55
35:4C:918:ARG:NH2	35:4C:928:TRP:HB2	2.20	0.55
37:4E:589:PRO:HB3	43:5L:19:ARG:N	2.14	0.55
37:4E:1336:ASP:OD1	37:4E:1709:LEU:HD23	2.06	0.55
37:4E:1742:LYS:C	37:4E:1744:GLU:H	2.14	0.55
37:4F:802:TYR:HA	37:4F:809:VAL:HG22	1.89	0.55
37:4F:1333:VAL:HA	38:4N:27:ALA:C	2.29	0.55
37:4G:598:LEU:HD23	37:4G:1775:LEU:HB2	1.89	0.55
38:4M:38:VAL:C	38:4M:41:LYS:H	2.15	0.55
40:4T:475:ALA:HA	40:4T:478:LEU:HD12	1.89	0.55
40:4V:487:LEU:HB3	40:4V:489:ILE:HG12	1.89	0.55
12:4g:272:PRO:HD3	12:4g:364:SER:HA	1.89	0.55
42:5H:85:CYS:C	43:5L:47:LYS:CE	2.79	0.55
42:5H:139:LEU:CB	43:5L:145:SER:HB3	2.36	0.55
42:5H:140:TYR:HA	42:5H:144:PHE:CD2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5L:149:ARG:HG2	43:5L:150:VAL:H	1.71	0.55
12:5a:272:PRO:HD3	12:5a:364:SER:HA	1.88	0.55
12:5c:178:THR:OG1	12:5c:181:GLU:HG3	2.07	0.55
13:5h:248:LEU:HB3	13:5h:354:GLY:HA2	1.89	0.55
47:6A:76:THR:HA	47:6A:152:PHE:HE1	1.71	0.55
47:6B:131:LEU:O	47:6B:135:GLN:HG3	2.06	0.55
47:6B:384:GLU:OE1	3:6D:851:SER:HB2	2.06	0.55
49:6I:3:VAL:O	49:6I:7:ILE:HG12	2.07	0.55
13:7h:207:GLU:OE1	13:7h:304:LYS:NZ	2.30	0.55
13:9d:188:VAL:HG13	13:9d:425:LEU:HD22	1.88	0.55
13:9f:317:LEU:HB3	13:9f:319:TYR:HE1	1.72	0.55
13:Ad:317:LEU:HB3	13:Ad:319:TYR:HE1	1.72	0.55
13:Bf:317:LEU:HB3	13:Bf:319:TYR:HE1	1.72	0.55
13:Bh:248:LEU:HB3	13:Bh:354:GLY:HA2	1.89	0.55
13:Bh:317:LEU:HB3	13:Bh:319:TYR:HE1	1.72	0.55
12:De:170:VAL:HG11	12:De:377:MET:SD	2.47	0.55
1:0H:217:LEU:HG	1:0H:225:LEU:HD23	1.88	0.55
1:0I:156:ASN:OD1	1:0I:157:ALA:N	2.39	0.55
1:0K:322:ALA:HB2	1:0K:362:GLN:HG2	1.88	0.55
1:0A:127:LEU:HD13	1:0A:130:LEU:HD12	1.88	0.55
1:0A:128:ASP:OD1	1:0A:129:SER:N	2.40	0.55
1:0A:341:VAL:HG11	1:0A:377:THR:HB	1.88	0.55
1:0D:349:GLU:HB3	1:0D:351:HIS:CE1	2.41	0.55
1:0G:217:LEU:HB2	1:0G:229:VAL:HG11	1.88	0.55
1:0G:344:LEU:HD11	1:0G:386:LEU:HD11	1.88	0.55
1:0N:238:LYS:HE3	1:0N:239:HIS:CD2	2.42	0.55
1:0P:217:LEU:HG	1:0P:225:LEU:HD23	1.88	0.55
1:0Q:134:LEU:HA	1:0Q:142:LYS:HG2	1.89	0.55
1:0R:218:VAL:HG12	1:0R:255:LYS:HB3	1.88	0.55
1:0R:262:PHE:CD1	1:0R:263:PRO:HD2	2.42	0.55
1:0T:80:VAL:HG11	1:0T:120:SER:OG	2.07	0.55
1:0Y:338:PRO:HA	1:0Y:341:VAL:HG22	1.88	0.55
1:1A:412:THR:OG1	1:1A:413:HIS:N	2.40	0.55
1:1A:413:HIS:CE1	1:1A:416:ALA:H	2.25	0.55
1:1B:358:TRP:CD1	1:1B:399:LYS:HZ2	2.25	0.55
2:1E:231:ASN:OD1	2:1E:235:PRO:HD3	2.06	0.55
3:1H:210:GLN:HG3	47:6A:291:GLN:HE22	1.72	0.55
3:1H:1009:ARG:HD2	48:6F:353:ILE:CD1	2.37	0.55
5:1M:139:THR:HA	5:1M:163:PRO:HA	1.88	0.55
6:1N:142:PHE:CG	8:1P:764:GLY:HA3	2.42	0.55
6:1N:510:TYR:OH	6:1N:525:ARG:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1R:267:LEU:HD21	10:1R:284:GLU:HB2	1.89	0.55
14:2F:18:THR:O	14:2F:21:SER:HB2	2.07	0.55
34:3M:434:ASP:HA	34:3M:438:ILE:CD1	2.37	0.55
34:3R:332:GLU:OE2	34:4B:233:ALA:HB1	2.07	0.55
34:3U:33:GLN:HA	34:3U:36:ILE:HG12	1.89	0.55
34:3U:330:GLU:O	34:3U:333:ARG:HG2	2.07	0.55
13:3d:317:LEU:HB3	13:3d:319:TYR:HE1	1.72	0.55
13:3d:342:GLN:NE2	13:3d:343:PHE:O	2.40	0.55
13:3f:188:VAL:HG13	13:3f:425:LEU:HD22	1.88	0.55
13:3f:317:LEU:HB3	13:3f:319:TYR:HE1	1.72	0.55
34:4B:254:MET:HG2	34:4B:481:LEU:CD1	2.33	0.55
36:4D:52:LEU:HD12	36:4D:162:ILE:CG1	2.37	0.55
37:4E:580:GLU:CB	43:5L:27:LEU:HD11	2.33	0.55
37:4E:581:LEU:CG	43:5L:34:ALA:N	2.61	0.55
37:4E:588:PRO:O	37:4E:589:PRO:C	2.50	0.55
37:4F:692:MET:CB	38:4K:63:GLN:HE21	2.18	0.55
37:4F:968:VAL:H	37:4F:1076:THR:CB	2.18	0.55
37:4F:1323:ILE:HA	38:4N:26:GLU:CD	2.23	0.55
37:4G:671:LEU:CG	38:4I:40:LYS:HA	2.37	0.55
37:4G:692:MET:H	38:4I:59:PRO:HG2	1.72	0.55
37:4G:1333:VAL:C	38:4L:27:ALA:CB	2.72	0.55
37:4H:1162:VAL:H	37:4H:1299:ARG:NH1	1.97	0.55
38:4I:28:VAL:HG12	38:4I:29:LYS:HG2	1.89	0.55
38:4P:49:ILE:O	38:4P:53:LEU:HD23	2.06	0.55
39:4S:7:LEU:HD11	43:5K:93:MET:HG2	1.89	0.55
40:4T:487:LEU:HB3	40:4T:489:ILE:HG12	1.89	0.55
40:4T:636:GLY:O	40:4T:638:THR:N	2.33	0.55
40:4U:487:LEU:HB3	40:4U:489:ILE:HG12	1.89	0.55
40:4V:78:ARG:HB3	40:4V:311:VAL:HG23	1.88	0.55
40:4V:460:ASP:HA	40:4V:488:GLY:HA3	1.89	0.55
40:4V:475:ALA:HA	40:4V:478:LEU:HD12	1.89	0.55
43:5L:48:THR:O	43:5L:51:HIS:HB2	2.06	0.55
43:5L:87:ILE:HG23	43:5L:146:TYR:HB3	1.89	0.55
44:5S:91:GLU:O	44:5S:95:VAL:HG23	2.06	0.55
12:5e:115:SER:O	12:5e:119:VAL:HG23	2.07	0.55
47:6A:194:ARG:O	47:6A:198:THR:HG23	2.07	0.55
47:6A:976:LEU:HD22	47:6A:1101:ARG:HA	1.89	0.55
47:6A:1923:ALA:O	47:6A:1927:THR:HG23	2.06	0.55
47:6B:196:GLN:NE2	47:6B:200:GLN:HE21	2.01	0.55
3:6D:505:GLY:HA3	3:6D:549:VAL:CG2	2.37	0.55
49:6G:3:VAL:O	49:6G:7:ILE:HG12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6J:3:VAL:O	49:6J:7:ILE:HG12	2.07	0.55
50:6K:73:ARG:NH1	50:6K:232:THR:HG22	2.21	0.55
50:6L:583:ALA:O	50:6L:587:LEU:HD23	2.06	0.55
12:7c:10:GLY:O	12:7c:14:ASN:ND2	2.40	0.55
12:7c:178:THR:HG22	13:7d:352:LYS:HZ3	1.70	0.55
13:9b:248:LEU:HB3	13:9b:354:GLY:HA2	1.89	0.55
13:9d:342:GLN:NE2	13:9d:343:PHE:O	2.40	0.55
13:9f:248:LEU:HB3	13:9f:354:GLY:HA2	1.89	0.55
12:9g:10:GLY:O	12:9g:14:ASN:ND2	2.40	0.55
13:9h:188:VAL:HG13	13:9h:425:LEU:HD22	1.88	0.55
13:9h:317:LEU:HB3	13:9h:319:TYR:HE1	1.72	0.55
13:9h:342:GLN:NE2	13:9h:343:PHE:O	2.40	0.55
12:Ae:73:MET:HE3	12:Ae:92:PHE:HB3	1.89	0.55
13:Ah:317:LEU:HB3	13:Ah:319:TYR:HE1	1.72	0.55
13:Bb:342:GLN:NE2	13:Bb:343:PHE:O	2.40	0.55
12:Bc:112:LEU:HB2	12:Bc:147:MET:HE1	1.88	0.55
13:Bd:317:LEU:HB3	13:Bd:319:TYR:HE1	1.72	0.55
12:Be:404:ASP:OD2	12:Be:405:GLU:N	2.40	0.55
12:Ce:99:ASN:HB2	13:Cf:258:ASN:HD21	1.72	0.55
12:Dc:272:PRO:HD3	12:Dc:364:SER:HA	1.89	0.55
12:De:50:TYR:CE2	12:De:241:ARG:HD3	2.41	0.55
1:0H:252:ILE:HG22	1:0H:256:ILE:HG12	1.88	0.55
1:0A:291:GLY:HA3	47:6A:326:THR:HG21	1.89	0.55
1:0B:243:LEU:O	1:0B:247:VAL:HG23	2.06	0.55
1:0B:270:HIS:O	1:0B:274:VAL:HG23	2.06	0.55
1:0C:131:VAL:HA	1:0C:134:LEU:HD12	1.88	0.55
1:0D:227:ARG:HD3	1:0D:266:PHE:HB2	1.88	0.55
1:0F:65:LEU:HD22	1:0F:84:ILE:HD13	1.88	0.55
1:0F:315:MET:HG2	1:0F:319:TYR:CE2	2.42	0.55
1:0G:182:SER:O	1:0G:185:ARG:HG2	2.07	0.55
1:0N:417:LEU:O	1:0N:421:VAL:HG23	2.07	0.55
1:0P:252:ILE:HG22	1:0P:256:ILE:HG12	1.89	0.55
1:0P:311:LEU:HD22	1:0P:351:HIS:HD2	1.72	0.55
1:0Q:117:LEU:O	1:0Q:121:VAL:HG23	2.07	0.55
1:0R:127:LEU:O	1:0R:131:VAL:HG13	2.06	0.55
1:0R:147:TRP:HE1	1:0R:186:ILE:CD1	2.19	0.55
1:0R:149:LEU:HD22	1:0R:163:VAL:HG13	1.88	0.55
1:0R:319:TYR:CD1	1:0R:358:TRP:HH2	2.24	0.55
1:0X:134:LEU:HA	1:0X:142:LYS:HA	1.88	0.55
1:0Y:131:VAL:HG13	1:0Y:171:LEU:HD11	1.89	0.55
1:1B:353:LYS:NZ	1:1B:386:LEU:HD11	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:397:LYS:HD2	1:1B:397:LYS:N	2.21	0.55
2:1E:21:VAL:HG13	2:1G:56:LEU:HD23	1.89	0.55
2:1F:17:THR:OG1	2:1F:18:LEU:HD12	2.06	0.55
2:1F:34:THR:O	2:1F:38:VAL:HG23	2.07	0.55
3:1H:1005:PRO:CB	47:6A:402:MET:HG2	2.37	0.55
5:1M:481:PRO:C	5:1M:487:LYS:HZ2	2.14	0.55
6:1N:2414:GLU:OE1	6:1N:2414:GLU:N	2.37	0.55
7:1O:2594:TYR:CE2	7:1O:2607:VAL:HG21	2.42	0.55
10:1S:149:ARG:HG3	10:1S:154:GLY:O	2.07	0.55
13:1b:342:GLN:NE2	13:1b:343:PHE:O	2.40	0.55
12:1c:141:GLY:O	12:1c:145:SER:OG	2.21	0.55
13:1d:342:GLN:NE2	13:1d:343:PHE:O	2.40	0.55
13:1f:342:GLN:NE2	13:1f:343:PHE:O	2.40	0.55
13:1h:342:GLN:NE2	13:1h:343:PHE:O	2.40	0.55
14:2G:41:TRP:HH2	12:De:73:MET:HB2	1.71	0.55
17:2K:2:UNK:HA	13:Df:31:GLN:HG2	1.89	0.55
18:2L:5:UNK:CB	12:5g:359:LYS:HB3	2.37	0.55
24:2T:152:GLU:HG3	24:2T:153:ASN:N	2.21	0.55
24:2U:129:SER:OG	24:2U:132:ARG:HG2	2.06	0.55
30:3F:300:ARG:HB3	13:6f:427:ALA:HB1	1.89	0.55
31:3I:308:GLN:HA	32:3K:388:MET:HG2	1.88	0.55
31:3I:321:SER:O	31:3I:325:VAL:HG23	2.07	0.55
32:3J:323:VAL:HG21	12:9a:160:PRO:HG3	1.89	0.55
34:3O:288:MET:HG3	34:3T:200:ALA:HB1	1.88	0.55
34:3O:366:VAL:HG22	34:3Y:356:PHE:CE2	2.41	0.55
34:3O:480:ALA:O	34:3O:484:GLU:HG3	2.07	0.55
34:3P:330:GLU:O	34:3P:333:ARG:HG2	2.07	0.55
34:3Q:438:ILE:HB	34:3Q:439:PRO:HD3	1.89	0.55
34:3R:247:ASP:OD2	34:3W:250:ARG:N	2.39	0.55
34:3S:266:HIS:CE1	34:3S:270:ILE:HD11	2.41	0.55
34:3S:266:HIS:O	34:3S:270:ILE:HG13	2.07	0.55
34:3T:103:LEU:HB3	34:3T:342:GLN:CD	2.32	0.55
34:3U:49:PHE:CZ	34:3U:53:ILE:HD11	2.42	0.55
34:3U:382:LEU:HD23	34:3U:385:GLU:OE2	2.06	0.55
34:3U:463:HIS:CE1	34:3U:467:LEU:HD21	2.42	0.55
34:3V:126:PHE:CE1	34:3V:368:LEU:HG	2.42	0.55
34:3X:284:PHE:O	34:3X:288:MET:HG2	2.07	0.55
34:3X:352:LEU:O	34:3X:356:PHE:HD2	1.90	0.55
13:3b:317:LEU:HB3	13:3b:319:TYR:HE1	1.72	0.55
13:3h:317:LEU:HB3	13:3h:319:TYR:HE1	1.72	0.55
36:4D:203:TRP:CZ3	36:4D:218:ARG:HD3	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:1302:ASN:HB3	43:5L:121:PHE:CE2	2.39	0.55
37:4F:970:SER:CA	37:4F:1074:GLN:HB2	2.37	0.55
37:4F:1082:LEU:CA	37:4F:1082:LEU:HB3	2.17	0.55
37:4F:1082:LEU:N	38:4N:39:HIS:CG	2.75	0.55
37:4F:1297:THR:HB	37:4F:1305:VAL:HG22	1.89	0.55
37:4F:1314:LEU:CD1	37:4F:1753:GLN:HG2	2.37	0.55
37:4G:1366:VAL:HG11	37:4G:1396:LEU:HB3	1.88	0.55
37:4H:969:LEU:HD12	37:4H:1074:GLN:O	2.07	0.55
37:4H:1092:LEU:O	38:4M:36:VAL:CB	2.55	0.55
37:4H:1315:VAL:N	37:4H:1323:ILE:H	2.02	0.55
38:4I:40:LYS:HE3	38:4I:44:LEU:HD12	1.88	0.55
38:4J:47:ALA:O	38:4J:48:PRO:C	2.49	0.55
38:4K:29:LYS:HA	38:4K:32:GLU:HB3	1.87	0.55
38:4K:40:LYS:HE3	38:4K:44:LEU:HD12	1.88	0.55
40:4V:455:THR:O	40:4V:455:THR:OG1	2.14	0.55
12:4a:206:ALA:O	12:4a:210:ILE:HG23	2.07	0.55
13:4b:248:LEU:HB3	13:4b:354:GLY:HA2	1.89	0.55
42:5H:137:TYR:CG	43:5L:47:LYS:CB	2.89	0.55
43:5L:42:TYR:N	43:5L:42:TYR:CD2	2.59	0.55
13:5b:248:LEU:HB3	13:5b:354:GLY:HA2	1.89	0.55
47:6A:715:LEU:HD12	47:6A:718:LYS:HE2	1.89	0.55
47:6A:1587:ALA:O	47:6A:1597:ARG:HG3	2.07	0.55
47:6B:351:ARG:HD3	3:6D:526:ASP:OD1	2.07	0.55
47:6B:402:MET:HG3	3:6D:1011:GLU:OE2	2.06	0.55
47:6B:976:LEU:HD22	47:6B:1101:ARG:HA	1.89	0.55
49:6G:415:HIS:CE1	49:6G:447:ARG:HH21	2.25	0.55
49:6H:412:MET:HA	49:6H:436:GLN:HG3	1.89	0.55
49:6H:415:HIS:CE1	49:6H:447:ARG:HH21	2.25	0.55
50:6L:565:ALA:HB1	50:6L:573:LYS:HG3	1.89	0.55
51:6M:2294:ASP:O	51:6M:2295:GLU:C	2.49	0.55
12:7e:91:VAL:CG2	12:7e:116:VAL:HG12	2.37	0.55
12:8a:311:LEU:HD21	12:8a:372:THR:HG23	1.87	0.55
13:8h:342:GLN:NE2	13:8h:343:PHE:O	2.40	0.55
13:Bd:342:GLN:NE2	13:Bd:343:PHE:O	2.40	0.55
13:Bf:342:GLN:NE2	13:Bf:343:PHE:O	2.40	0.55
12:Ce:392:LYS:HB3	12:Ce:395:LEU:HD23	1.89	0.55
13:Db:342:GLN:NE2	13:Db:343:PHE:O	2.40	0.55
12:Dc:10:GLY:O	12:Dc:14:ASN:ND2	2.39	0.55
13:Dd:342:GLN:NE2	13:Dd:343:PHE:O	2.40	0.55
12:De:272:PRO:HD2	12:De:361:LEU:HD13	1.88	0.55
13:Df:342:GLN:NE2	13:Df:343:PHE:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0H:359:THR:HA	1:0H:362:GLN:OE1	2.07	0.55
1:0J:88:LEU:HD22	1:0J:103:ALA:HA	1.88	0.55
1:0J:350:ASP:CA	1:0J:353:LYS:HG3	2.35	0.55
1:0I:145:SER:O	1:0I:148:THR:OG1	2.22	0.55
1:0B:296:GLY:HA2	1:0B:299:VAL:HG22	1.88	0.55
1:0D:47:ARG:HG3	1:0D:87:GLN:HE22	1.71	0.55
1:0D:202:ALA:O	1:0D:206:VAL:HG23	2.07	0.55
1:0E:107:LEU:HD22	1:0E:121:VAL:HG13	1.88	0.55
1:0E:184:LYS:HB3	1:0E:217:LEU:HD21	1.88	0.55
1:0N:200:GLU:CD	32:3J:23:LEU:HG	2.31	0.55
1:0P:359:THR:HA	1:0P:362:GLN:OE1	2.07	0.55
1:0S:346:GLU:HG3	1:0S:347:GLU:OE1	2.07	0.55
1:1C:322:ALA:HB2	1:1C:362:GLN:HG2	1.87	0.55
3:1I:280:SER:HA	3:1I:495:PRO:HB3	1.89	0.55
6:1N:1173:LEU:O	6:1N:1177:LYS:HG3	2.07	0.55
13:1h:248:LEU:HB3	13:1h:354:GLY:HA2	1.89	0.55
14:2F:44:LYS:HE2	13:Db:2:ARG:HD2	1.89	0.55
14:2F:92:GLU:HG3	14:2F:102:ALA:HA	1.88	0.55
14:2G:9:TRP:CD1	14:2G:9:TRP:H	2.24	0.55
24:2T:130:ALA:HA	24:2T:153:ASN:OD1	2.07	0.55
12:2a:257:LEU:HD23	12:2a:312:THR:HG22	1.89	0.55
30:3G:590:VAL:HG13	31:3I:450:PRO:HB3	1.89	0.55
32:3J:43:ILE:HG22	32:3J:44:LEU:HD12	1.87	0.55
34:3M:109:LEU:HA	34:3M:112:LYS:HE2	1.89	0.55
34:3O:330:GLU:OE2	34:3O:403:ARG:NH1	2.40	0.55
34:3Q:323:ALA:O	34:3Q:327:VAL:HG23	2.06	0.55
34:3T:373:ALA:O	34:3T:377:ARG:HG3	2.06	0.55
34:3T:493:LYS:O	34:3T:497:MET:HG2	2.06	0.55
34:3V:44:LYS:NZ	34:3Z:84:GLU:HG2	2.21	0.55
34:3V:92:THR:OG1	34:3V:328:MET:HE1	2.07	0.55
34:3V:105:GLN:O	34:3V:109:LEU:HG	2.07	0.55
34:3X:84:GLU:HG2	34:4A:44:LYS:NZ	2.21	0.55
34:3X:384:ASN:HA	34:3X:387:VAL:HG22	1.89	0.55
34:3Z:38:HIS:NE2	34:3Z:452:HIS:CE1	2.75	0.55
13:3b:342:GLN:NE2	13:3b:343:PHE:O	2.40	0.55
13:3f:342:GLN:NE2	13:3f:343:PHE:O	2.40	0.55
13:3h:342:GLN:NE2	13:3h:343:PHE:O	2.40	0.55
34:4A:122:GLN:HB3	34:4A:126:PHE:CE1	2.37	0.55
36:4D:170:HIS:O	36:4D:245:HIS:HE1	1.89	0.55
36:4D:294:LYS:HG2	36:4D:295:PRO:HD2	1.88	0.55
37:4E:730:ARG:O	37:4E:734:GLN:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:1154:ARG:HH21	37:4E:1156:LEU:HD21	1.72	0.55
37:4G:538:GLU:OE2	37:4G:664:TYR:CE2	2.60	0.55
37:4G:692:MET:N	38:4I:59:PRO:HG2	2.21	0.55
37:4H:802:TYR:HA	37:4H:809:VAL:HG22	1.89	0.55
37:4H:1082:LEU:O	38:4M:35:ALA:CB	2.54	0.55
37:4H:1130:ALA:CB	38:4M:44:LEU:HA	2.37	0.55
37:4H:1137:ALA:N	37:4H:1145:VAL:HB	2.22	0.55
37:4H:1319:ASP:N	37:4H:1321:THR:HG22	2.20	0.55
38:4J:32:GLU:HG3	38:4J:33:LYS:HZ1	1.71	0.55
38:4J:36:VAL:O	38:4J:36:VAL:HG23	2.07	0.55
38:4L:36:VAL:HG23	38:4L:36:VAL:O	2.07	0.55
38:4L:47:ALA:O	38:4L:48:PRO:C	2.49	0.55
38:4M:38:VAL:HA	38:4M:41:LYS:HB2	1.89	0.55
39:4S:145:ILE:O	39:4S:149:GLN:HG3	2.07	0.55
40:4T:78:ARG:HB3	40:4T:311:VAL:HG23	1.87	0.55
40:4T:655:VAL:HG11	40:4T:723:VAL:HG11	1.89	0.55
40:4U:655:VAL:HG11	40:4U:723:VAL:HG11	1.89	0.55
40:4V:655:VAL:HG11	40:4V:723:VAL:HG11	1.89	0.55
41:5A:21:GLY:HA3	43:5L:188:GLU:HA	1.89	0.55
41:5A:144:HIS:H	41:5A:164:GLY:HA3	1.70	0.55
42:5H:45:ALA:O	42:5H:46:ARG:C	2.49	0.55
42:5H:50:LEU:HA	43:5L:144:TYR:CZ	2.42	0.55
43:5I:7:TRP:CE3	43:5I:10:LEU:O	2.60	0.55
43:5I:149:ARG:HG2	43:5I:150:VAL:H	1.72	0.55
43:5J:149:ARG:HG2	43:5J:150:VAL:H	1.71	0.55
13:5b:188:VAL:HG13	13:5b:425:LEU:HD22	1.88	0.55
13:5b:210:TYR:CD2	12:5c:324:LYS:HD3	2.42	0.55
13:5d:248:LEU:HB3	13:5d:354:GLY:HA2	1.89	0.55
13:5f:248:LEU:HB3	13:5f:354:GLY:HA2	1.89	0.55
47:6A:131:LEU:O	47:6A:135:GLN:HG3	2.06	0.55
47:6A:588:ALA:HB1	47:6A:764:GLY:HA2	1.89	0.55
47:6B:588:ALA:HB1	47:6B:764:GLY:HA2	1.89	0.55
48:6F:891:ARG:HE	48:6F:905:LEU:HD22	1.71	0.55
50:6L:73:ARG:NH1	50:6L:232:THR:HG22	2.21	0.55
51:6M:2061:LEU:HD11	51:6M:2089:TYR:HB3	1.88	0.55
51:6N:2294:ASP:O	51:6N:2295:GLU:C	2.49	0.55
12:6c:10:GLY:O	12:6c:14:ASN:ND2	2.40	0.55
13:6d:342:GLN:NE2	13:6d:343:PHE:O	2.40	0.55
13:6f:342:GLN:NE2	13:6f:343:PHE:O	2.40	0.55
12:6g:341:PHE:HB3	12:6g:348:ASN:ND2	2.21	0.55
12:7a:138:SER:OG	53:7a:501:GDP:H5'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8c:313:ALA:O	12:8c:349:VAL:HA	2.05	0.55
12:8c:329:GLN:O	12:8c:333:VAL:HG13	2.07	0.55
13:8d:222:PRO:O	12:8e:324:LYS:HB3	2.06	0.55
13:8d:342:GLN:NE2	13:8d:343:PHE:O	2.40	0.55
13:8f:342:GLN:NE2	13:8f:343:PHE:O	2.40	0.55
12:Aa:397:TRP:HZ2	13:Ab:260:VAL:HB	1.71	0.55
12:Ac:11:GLN:HA	12:Ac:72:THR:HG21	1.87	0.55
13:Af:317:LEU:HB3	13:Af:319:TYR:HE1	1.72	0.55
13:Bb:317:LEU:HB3	13:Bb:319:TYR:HE1	1.72	0.55
12:Be:257:LEU:HA	12:Be:312:THR:HG21	1.89	0.55
12:Ca:238:CYS:SG	12:Ca:316:LEU:HD21	2.47	0.55
12:Cc:10:GLY:O	12:Cc:14:ASN:ND2	2.40	0.55
12:Ce:86:ARG:HD2	12:Ce:89:ASN:CG	2.31	0.55
13:Cf:394:LYS:HB3	12:Cg:346:PRO:HG3	1.89	0.55
1:0H:320:ILE:HG22	1:0H:327:LEU:HB3	1.88	0.55
1:0W:324:SER:OG	1:0W:327:LEU:HD23	2.06	0.55
1:0I:285:LEU:O	1:0I:289:VAL:HG23	2.07	0.55
1:0A:90:TYR:HE2	47:6B:110:LYS:CG	2.20	0.54
1:0C:252:ILE:HA	1:0C:255:LYS:HE2	1.88	0.54
1:0D:218:VAL:HG12	1:0D:255:LYS:HB3	1.89	0.54
1:0F:223:ALA:HB2	1:0F:262:PHE:CZ	2.42	0.54
1:0F:292:ASN:C	39:4Q:132:ILE:HD13	2.31	0.54
1:0M:176:VAL:HG11	1:0M:213:TYR:HB3	1.89	0.54
1:0N:184:LYS:HB3	1:0N:217:LEU:HD21	1.89	0.54
1:0O:85:LEU:HA	1:0O:88:LEU:HD12	1.89	0.54
1:0P:225:LEU:O	1:0P:229:VAL:HG22	2.08	0.54
1:0Q:156:ASN:OD1	1:0Q:157:ALA:N	2.40	0.54
1:0S:285:LEU:O	1:0S:289:VAL:HG23	2.06	0.54
1:0V:361:GLY:HA2	1:0V:403:ALA:HA	1.89	0.54
1:1A:201:LEU:O	1:1A:205:VAL:HG23	2.06	0.54
1:1B:88:LEU:HD22	1:1B:103:ALA:HA	1.88	0.54
1:1B:206:VAL:HG21	1:1B:243:LEU:CD2	2.37	0.54
1:1C:262:PHE:CD1	1:1C:263:PRO:HD2	2.43	0.54
1:1C:282:THR:OG1	1:1C:285:LEU:HG	2.07	0.54
3:1H:802:VAL:HG13	3:1H:845:ILE:HD13	1.88	0.54
4:1J:229:LEU:HB2	4:1J:240:THR:O	2.07	0.54
4:1K:229:LEU:HB2	4:1K:240:THR:O	2.07	0.54
5:1L:481:PRO:C	5:1L:487:LYS:HZ2	2.14	0.54
6:1N:982:MET:O	6:1N:986:VAL:HG23	2.07	0.54
7:1O:368:ALA:HB1	7:1O:431:LEU:HA	1.89	0.54
10:1R:365:VAL:N	12:Bc:337:ASN:HD21	2.04	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1e:33:THR:HG23	12:1e:35:THR:HG22	1.89	0.54
13:1f:248:LEU:HB3	13:1f:354:GLY:HA2	1.89	0.54
13:1f:290:GLU:OE2	12:Dc:125:GLU:OE2	2.24	0.54
14:2G:46:ARG:HH12	12:De:75:SER:HA	1.72	0.54
14:2G:113:VAL:HG12	13:Bf:243:ARG:O	2.07	0.54
24:2V:130:ALA:O	12:Dg:335:ASN:ND2	2.40	0.54
12:2c:10:GLY:O	12:2c:14:ASN:ND2	2.39	0.54
12:2c:391:ARG:HG3	13:2d:346:TRP:HB3	1.88	0.54
30:3G:530:THR:HG21	31:3I:385:ILE:HA	1.89	0.54
31:3I:309:SER:HA	31:3I:312:ARG:HD3	1.87	0.54
34:3V:270:ILE:O	34:3V:273:ARG:HG2	2.07	0.54
12:3g:309:ARG:NH1	12:3g:343:GLU:OE2	2.39	0.54
13:3h:188:VAL:HG13	13:3h:425:LEU:HD22	1.88	0.54
34:4A:245:ASN:HB3	34:4A:252:GLU:HG3	1.89	0.54
35:4C:841:PHE:CE2	35:4C:849:ILE:HD13	2.42	0.54
35:4C:902:PHE:CD1	35:4C:1075:CYS:HB2	2.42	0.54
37:4E:413:ALA:HA	37:4E:416:VAL:HG12	1.89	0.54
37:4E:576:ALA:N	43:5L:30:ARG:CA	2.70	0.54
37:4E:581:LEU:CA	37:4E:581:LEU:HB3	2.21	0.54
37:4E:581:LEU:N	43:5L:35:LYS:CE	2.67	0.54
37:4E:586:PHE:CG	43:5L:10:LEU:HD22	2.42	0.54
37:4E:1474:PHE:HE2	37:4E:1514:PRO:HB2	1.72	0.54
37:4F:1082:LEU:C	38:4N:38:VAL:HG23	2.32	0.54
37:4F:1720:LEU:HD11	44:5U:119:LYS:HB2	1.89	0.54
37:4G:1082:LEU:CB	38:4L:36:VAL:HG12	2.37	0.54
37:4G:1136:ARG:NH1	37:4G:1146:SER:HB3	2.22	0.54
37:4H:1072:ALA:CB	37:4H:1085:MET:O	2.53	0.54
37:4H:1072:ALA:CB	38:4M:41:LYS:NZ	2.70	0.54
38:4I:38:VAL:C	38:4I:41:LYS:H	2.15	0.54
38:4I:40:LYS:HZ1	38:4I:44:LEU:HB2	1.70	0.54
38:4K:47:ALA:O	38:4K:48:PRO:C	2.49	0.54
38:4L:29:LYS:C	38:4L:32:GLU:HB3	2.31	0.54
38:4N:36:VAL:O	38:4N:36:VAL:HG23	2.07	0.54
39:4Q:123:LYS:O	39:4Q:127:GLU:HG3	2.06	0.54
39:4Q:145:ILE:O	39:4Q:149:GLN:HG3	2.08	0.54
39:4S:123:LYS:O	39:4S:127:GLU:HG3	2.06	0.54
40:4U:78:ARG:HB3	40:4U:311:VAL:HG23	1.87	0.54
40:4V:225:ALA:O	40:4V:229:VAL:HG23	2.07	0.54
47:6A:396:SER:HA	47:6A:399:LYS:HZ1	1.71	0.54
47:6B:194:ARG:O	47:6B:198:THR:HG23	2.07	0.54
47:6B:715:LEU:HD12	47:6B:718:LYS:HE2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:1587:ALA:O	47:6B:1597:ARG:HG3	2.07	0.54
48:6E:109:ALA:HB2	48:6E:130:LEU:HD13	1.89	0.54
48:6E:202:ARG:HH21	49:6G:464:ASN:HA	1.72	0.54
48:6E:891:ARG:HE	48:6E:905:LEU:HD22	1.71	0.54
49:6H:3:VAL:O	49:6H:7:ILE:HG12	2.07	0.54
50:6K:583:ALA:O	50:6K:587:LEU:HD23	2.06	0.54
51:6M:1919:ALA:HA	51:6M:1922:TRP:CE2	2.42	0.54
51:6M:2149:ALA:HB2	51:6M:2273:THR:HG21	1.87	0.54
51:6N:1623:ARG:HH11	51:6N:1638:VAL:HG23	1.72	0.54
51:6N:2061:LEU:HD11	51:6N:2089:TYR:HB3	1.88	0.54
13:8b:342:GLN:NE2	13:8b:343:PHE:O	2.40	0.54
12:8c:177:ASP:N	12:8c:181:GLU:OE2	2.39	0.54
13:9d:317:LEU:HB3	13:9d:319:TYR:HE1	1.72	0.54
13:9f:342:GLN:NE2	13:9f:343:PHE:O	2.40	0.54
12:Aa:170:VAL:CG2	12:Aa:201:VAL:HG13	2.37	0.54
13:Ab:317:LEU:HB3	13:Ab:319:TYR:HE1	1.72	0.54
12:Ac:87:PRO:HA	12:Ac:90:PHE:CD1	2.41	0.54
12:Be:175:VAL:HG21	13:Bf:332:VAL:CG1	2.37	0.54
12:Da:52:ASN:HB3	12:Da:60:VAL:CG2	2.37	0.54
12:Dc:337:ASN:HB3	12:Dc:340:TYR:HD2	1.72	0.54
1:0H:225:LEU:O	1:0H:229:VAL:HG22	2.08	0.54
1:0W:122:ILE:HG12	1:0W:127:LEU:HD21	1.89	0.54
1:0A:367:THR:HB	1:0A:370:HIS:CG	2.42	0.54
1:0E:94:GLU:CD	1:0E:99:TYR:CE2	2.86	0.54
1:0E:238:LYS:HD2	1:0E:239:HIS:HD2	1.72	0.54
1:0L:32:GLN:NE2	31:3I:470:GLY:O	2.40	0.54
1:0M:380:LEU:HD21	1:0M:407:VAL:HG21	1.88	0.54
1:0O:134:LEU:HA	1:0O:142:LYS:HG2	1.88	0.54
1:0S:46:LEU:HB3	1:0S:65:LEU:HD21	1.88	0.54
1:0T:233:LEU:HD13	1:0T:252:ILE:HG21	1.90	0.54
1:0U:65:LEU:HD23	1:0U:106:CYS:SG	2.47	0.54
1:0V:363:ILE:HG22	1:0V:370:HIS:HB3	1.88	0.54
1:0Z:72:SER:HB3	1:0Z:75:LEU:HG	1.88	0.54
1:0Z:243:LEU:O	1:0Z:247:VAL:HG23	2.07	0.54
1:0Z:262:PHE:CD1	1:0Z:263:PRO:HD2	2.42	0.54
1:1A:245:GLU:HA	1:1A:248:VAL:HG22	1.87	0.54
2:1E:135:VAL:C	2:1E:137:PHE:H	2.15	0.54
2:1F:139:ARG:HH22	2:1F:176:HIS:CE1	2.24	0.54
3:1H:232:CYS:SG	3:1H:267:LEU:HA	2.47	0.54
3:1H:953:ILE:N	47:6A:384:GLU:OE1	2.40	0.54
6:1N:1442:THR:OG1	6:1N:1940:PRO:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1N:2662:TRP:CZ2	6:1N:2665:LEU:HG	2.41	0.54
7:1O:825:GLU:O	7:1O:829:VAL:HG23	2.07	0.54
7:1O:872:GLY:O	7:1O:875:THR:OG1	2.21	0.54
7:1O:2093:LEU:HD23	7:1O:2096:ARG:HE	1.73	0.54
10:1R:391:SER:HB3	10:1R:394:ARG:HH21	1.71	0.54
10:1R:432:THR:HB	12:Aa:83:GLN:OE1	2.06	0.54
10:1S:98:ASP:OD1	10:1S:99:THR:N	2.39	0.54
13:1d:248:LEU:HB3	13:1d:354:GLY:HA2	1.89	0.54
13:1h:207:GLU:OE1	13:1h:304:LYS:NZ	2.30	0.54
14:2F:9:TRP:CD1	14:2F:9:TRP:H	2.24	0.54
24:2U:185:ALA:O	24:2U:189:ILE:HG13	2.07	0.54
13:2d:269:LEU:N	13:2d:379:SER:O	2.33	0.54
13:2f:406:HIS:CD2	12:2g:261:PRO:HD3	2.42	0.54
13:2h:269:LEU:N	13:2h:379:SER:O	2.33	0.54
31:3H:147:LEU:HB2	31:3H:172:LEU:HD21	1.88	0.54
31:3H:150:GLU:OE1	31:3H:164:ARG:NE	2.38	0.54
32:3K:54:GLY:O	32:3K:141:VAL:HG12	2.07	0.54
32:3K:153:PHE:HD2	32:3K:162:VAL:HG13	1.73	0.54
33:3L:87:GLU:HA	33:3L:115:PHE:CZ	2.42	0.54
34:3O:84:GLU:HB3	34:3T:40:ASN:ND2	2.22	0.54
34:3X:38:HIS:NE2	34:3X:452:HIS:CE1	2.75	0.54
35:4C:398:PRO:O	35:4C:401:ILE:HG23	2.07	0.54
35:4C:841:PHE:CE2	35:4C:849:ILE:HG21	2.42	0.54
36:4D:14:LEU:HD12	36:4D:17:ARG:HD2	1.89	0.54
37:4E:575:SER:CA	43:5L:30:ARG:HB3	2.37	0.54
37:4E:583:GLU:CA	43:5L:35:LYS:CA	2.85	0.54
37:4E:587:ALA:CB	43:5L:18:ILE:HG23	2.33	0.54
37:4E:852:LYS:HD3	38:4O:74:ASP:OD1	2.07	0.54
37:4E:1109:ARG:NH2	42:5H:29:ALA:HB2	2.22	0.54
37:4E:1154:ARG:NH2	37:4E:1156:LEU:HD21	2.22	0.54
37:4E:1286:THR:HG22	37:4E:1297:THR:HG23	1.90	0.54
37:4F:903:THR:CG2	37:4F:906:THR:HG23	2.32	0.54
37:4F:972:PHE:CG	38:4N:44:LEU:HD22	2.42	0.54
37:4F:1144:LEU:HD23	37:4F:1156:LEU:HB2	1.88	0.54
37:4G:559:MET:HA	42:5E:108:PRO:HD3	1.89	0.54
37:4H:510:HIS:CE1	38:4M:70:LYS:HG2	2.42	0.54
38:4I:61:LEU:HD22	38:4I:80:LEU:HD21	1.87	0.54
38:4J:28:VAL:HG12	38:4J:29:LYS:HG2	1.89	0.54
38:4J:61:LEU:HA	38:4J:64:GLY:HA3	1.88	0.54
38:4K:36:VAL:O	38:4K:36:VAL:HG23	2.07	0.54
38:4N:65:MET:O	38:4N:69:CYS:CB	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:4U:649:ASP:O	40:4U:650:ASP:HB2	2.07	0.54
42:5F:118:SER:OG	42:5F:120:ASP:OD1	2.21	0.54
44:5V:104:ILE:O	44:5V:139:GLN:HA	2.07	0.54
44:5V:110:ARG:CG	44:5V:125:VAL:HG11	2.28	0.54
48:6F:109:ALA:HB2	48:6F:130:LEU:HD13	1.90	0.54
49:6G:412:MET:HA	49:6G:436:GLN:HG3	1.89	0.54
49:6J:415:HIS:CE1	49:6J:447:ARG:HH21	2.25	0.54
50:6K:565:ALA:HB1	50:6K:573:LYS:HG3	1.89	0.54
51:6M:1623:ARG:HH11	51:6M:1638:VAL:HG23	1.72	0.54
12:6a:206:ALA:O	12:6a:210:ILE:HG23	2.08	0.54
13:6b:342:GLN:NE2	13:6b:343:PHE:O	2.40	0.54
12:6c:232:VAL:HG21	12:6c:300:MET:SD	2.47	0.54
12:6e:171:PRO:HG3	12:6e:181:GLU:HG2	1.89	0.54
12:6g:10:GLY:O	12:6g:14:ASN:ND2	2.40	0.54
13:6h:342:GLN:NE2	13:6h:343:PHE:O	2.40	0.54
12:7a:35:THR:HG23	12:7a:37:HIS:NE2	2.23	0.54
13:7d:248:LEU:HB3	13:7d:354:GLY:HA2	1.89	0.54
13:7f:342:GLN:NE2	13:7f:343:PHE:O	2.40	0.54
13:7h:342:GLN:NE2	13:7h:343:PHE:O	2.40	0.54
12:8a:42:LEU:HA	12:8a:45:GLU:HG2	1.90	0.54
12:8a:342:VAL:HG21	12:8a:345:ILE:HD13	1.89	0.54
13:8b:317:LEU:HB3	13:8b:319:TYR:HE1	1.72	0.54
12:8e:12:CYS:SG	12:8e:138:SER:OG	2.65	0.54
12:8e:404:ASP:HB3	12:8e:407:GLU:OE1	2.07	0.54
13:9b:317:LEU:HB3	13:9b:319:TYR:HE1	1.72	0.54
13:9b:342:GLN:NE2	13:9b:343:PHE:O	2.40	0.54
12:9c:10:GLY:O	12:9c:14:ASN:ND2	2.40	0.54
12:Aa:86:ARG:CD	12:Ba:281:TYR:CD1	2.83	0.54
13:Ah:103:PHE:HD2	13:Ah:413:MET:HE1	1.73	0.54
12:Be:11:GLN:HG3	13:Bf:249:ASN:HB2	1.88	0.54
13:Bh:342:GLN:NE2	13:Bh:343:PHE:O	2.40	0.54
13:Cb:342:GLN:NE2	13:Cb:343:PHE:O	2.40	0.54
13:Db:248:LEU:HB3	13:Db:354:GLY:HA2	1.89	0.54
13:Dh:342:GLN:NE2	13:Dh:343:PHE:O	2.40	0.54
1:0J:256:ILE:HG23	1:0J:271:SER:HB2	1.90	0.54
1:0W:227:ARG:HD3	1:0W:266:PHE:HB2	1.88	0.54
1:0I:115:PRO:HB3	1:0I:155:HIS:HB3	1.89	0.54
1:0K:89:VAL:HG11	1:0K:125:GLY:HA3	1.88	0.54
1:0A:245:GLU:O	47:6A:337:ARG:NH2	2.40	0.54
1:0C:72:SER:HB3	1:0C:75:LEU:HG	1.88	0.54
1:0M:322:ALA:HB2	1:0M:362:GLN:HG2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0O:395:ASP:OD1	1:0O:396:LEU:N	2.40	0.54
1:0T:70:ASN:OD1	1:0T:112:ARG:NH2	2.39	0.54
1:0V:227:ARG:HG3	1:0V:267:VAL:HG22	1.89	0.54
1:0X:131:VAL:HA	1:0X:134:LEU:HD12	1.88	0.54
1:1A:219:ILE:HA	1:1A:255:LYS:HZ1	1.73	0.54
1:1C:269:LYS:O	1:1C:273:THR:HG23	2.07	0.54
1:1C:353:LYS:HB2	1:1C:396:LEU:HD21	1.89	0.54
3:1H:1009:ARG:HD2	48:6F:353:ILE:HB	1.89	0.54
4:1J:25:LYS:HE3	13:Bh:414:GLU:OE2	2.08	0.54
4:1J:387:THR:HA	4:1J:421:ARG:CB	2.36	0.54
4:1K:387:THR:HA	4:1K:421:ARG:CB	2.36	0.54
7:1O:2140:TRP:HB3	7:1O:2141:LEU:HD12	1.89	0.54
10:1S:39:MET:O	10:1S:135:THR:HG23	2.08	0.54
12:1a:232:VAL:HG22	12:1a:270:PHE:HB2	1.90	0.54
14:2F:44:LYS:HD2	13:Db:245:ASP:OD2	2.08	0.54
12:2a:207:LEU:HB3	12:2a:225:LEU:HD22	1.89	0.54
12:2g:151:LEU:O	12:2g:155:ILE:HG12	2.07	0.54
34:3M:459:ILE:HA	34:3M:462:GLU:HG3	1.89	0.54
34:3S:75:GLN:NE2	34:3S:419:LEU:HD22	2.22	0.54
34:3T:100:ILE:HG12	34:3T:338:LEU:CD1	2.38	0.54
12:3a:86:ARG:CZ	12:4a:281:TYR:CG	2.90	0.54
37:4E:571:ASP:O	37:4E:575:SER:CA	2.55	0.54
37:4E:576:ALA:HA	37:4E:581:LEU:CD2	2.37	0.54
37:4F:970:SER:O	37:4F:1074:GLN:HB2	2.07	0.54
37:4F:1162:VAL:H	37:4F:1299:ARG:NH1	1.99	0.54
37:4F:1323:ILE:N	37:4F:1323:ILE:CB	2.64	0.54
37:4F:1734:PHE:HD2	37:4F:1736:ARG:HH12	1.55	0.54
37:4G:567:LEU:HD21	42:5E:103:LEU:HD13	1.88	0.54
37:4G:935:ARG:NE	38:4L:49:ILE:CD1	2.70	0.54
37:4G:1136:ARG:CG	37:4G:1146:SER:HA	2.25	0.54
38:4J:25:PRO:CG	42:5F:96:ALA:CB	2.82	0.54
38:4K:57:VAL:CG1	38:4N:76:PRO:HG2	2.26	0.54
38:4M:61:LEU:HA	38:4M:64:GLY:HA3	1.88	0.54
12:4a:131:GLN:NE2	12:4a:163:MET:HG2	2.22	0.54
13:4b:342:GLN:NE2	13:4b:343:PHE:O	2.40	0.54
13:4d:342:GLN:NE2	13:4d:343:PHE:O	2.40	0.54
13:4f:248:LEU:HB3	13:4f:354:GLY:HA2	1.89	0.54
13:4f:342:GLN:NE2	13:4f:343:PHE:O	2.40	0.54
13:4h:248:LEU:HB3	13:4h:354:GLY:HA2	1.89	0.54
42:5F:157:LEU:HB2	43:5J:155:ALA:O	2.07	0.54
42:5H:85:CYS:HB2	43:5L:47:LYS:HD2	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5J:87:ILE:HG23	43:5J:146:TYR:HB3	1.89	0.54
43:5J:161:ASP:OD1	43:5J:161:ASP:N	2.29	0.54
44:5T:41:ARG:HG3	44:5T:47:PRO:HD2	1.90	0.54
44:5U:145:PHE:CE2	44:5U:149:MET:SD	3.01	0.54
13:5d:188:VAL:HG13	13:5d:425:LEU:HD22	1.88	0.54
13:5f:188:VAL:HG13	13:5f:425:LEU:HD22	1.88	0.54
47:6A:383:ALA:HA	47:6A:386:GLN:HB2	1.88	0.54
47:6B:76:THR:HA	47:6B:152:PHE:HE1	1.72	0.54
48:6E:899:LEU:H	48:6E:899:LEU:HD23	1.71	0.54
49:6G:344:ASP:HB3	49:6G:347:PRO:CD	2.38	0.54
49:6H:46:GLU:H	49:6H:46:GLU:CD	2.15	0.54
50:6K:8:ILE:HD11	50:6K:30:ILE:HD11	1.89	0.54
50:6K:290:LEU:HD13	50:6K:293:LEU:HD21	1.90	0.54
50:6L:8:ILE:HD11	50:6L:30:ILE:HD11	1.89	0.54
51:6M:1362:ARG:NH2	51:6M:1409:ASP:OD2	2.40	0.54
51:6N:1244:LEU:C	51:6N:1246:PRO:HD2	2.31	0.54
51:6N:1919:ALA:HA	51:6N:1922:TRP:CE2	2.42	0.54
12:6e:86:ARG:CZ	12:7e:281:TYR:HD1	2.20	0.54
12:6e:207:LEU:HB3	12:6e:225:LEU:HD22	1.90	0.54
13:7d:342:GLN:NE2	13:7d:343:PHE:O	2.40	0.54
13:8f:177:VAL:HB	12:8g:331:LEU:HD22	1.88	0.54
13:8f:207:GLU:OE1	13:8f:304:LYS:NZ	2.30	0.54
13:8f:317:LEU:HB3	13:8f:319:TYR:HE1	1.72	0.54
13:8h:248:LEU:HB3	13:8h:354:GLY:HA2	1.89	0.54
13:Ad:103:PHE:HD2	13:Ad:413:MET:HE1	1.73	0.54
13:Bb:222:PRO:HD2	12:Bc:324:LYS:HD2	1.88	0.54
13:Bd:103:PHE:HD2	13:Bd:413:MET:HE1	1.73	0.54
13:Bf:103:PHE:HD2	13:Bf:413:MET:HE1	1.73	0.54
13:Bh:103:PHE:HD2	13:Bh:413:MET:HE1	1.73	0.54
12:Cc:246:LEU:HD13	54:Cc:501:GTP:H8	1.72	0.54
12:Cc:322:SER:HB3	12:Cc:325:GLU:HG3	1.89	0.54
13:Db:188:VAL:HG13	13:Db:425:LEU:HD22	1.88	0.54
12:De:404:ASP:HB3	12:De:407:GLU:OE1	2.08	0.54
1:0H:311:LEU:HD22	1:0H:351:HIS:HD2	1.72	0.54
1:0K:275:VAL:HG13	1:0K:289:VAL:HG11	1.89	0.54
1:0K:349:GLU:HB3	1:0K:351:HIS:CE1	2.42	0.54
1:0B:95:GLN:HG2	1:0B:96:ASN:H	1.72	0.54
1:0F:72:SER:HB3	1:0F:75:LEU:HG	1.89	0.54
1:0Q:6:VAL:CG1	1:0Q:10:PHE:HE2	2.20	0.54
1:0R:134:LEU:HA	1:0R:142:LYS:HA	1.90	0.54
1:0U:198:THR:HB	1:0U:201:LEU:HG	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Y:95:GLN:HG2	1:0Y:96:ASN:H	1.73	0.54
1:0Y:202:ALA:O	1:0Y:206:VAL:HG23	2.08	0.54
1:0Y:346:GLU:HG3	1:0Y:347:GLU:CD	2.33	0.54
1:1A:221:GLN:HB2	5:1L:501:ASP:OD2	2.07	0.54
1:1C:349:GLU:HB3	1:1C:351:HIS:CE1	2.42	0.54
2:1D:21:VAL:HG13	2:1F:56:LEU:HD23	1.90	0.54
2:1F:117:SER:HB2	2:1F:158:THR:HG21	1.90	0.54
3:1H:854:LEU:HD21	3:1H:863:PHE:HB2	1.88	0.54
6:1N:813:LEU:HD11	6:1N:820:PRO:HG3	1.89	0.54
6:1N:2113:THR:HG23	6:1N:2116:GLY:H	1.72	0.54
7:1O:1123:PRO:HD3	7:1O:1764:TRP:CG	2.42	0.54
7:1O:3106:LEU:HG	7:1O:3147:LEU:HD12	1.89	0.54
10:1S:396:GLU:OE2	13:Bf:339:ARG:NE	2.38	0.54
13:1b:248:LEU:HB3	13:1b:354:GLY:HA2	1.89	0.54
12:1c:55:THR:HG21	12:2c:284:LEU:HD23	1.90	0.54
14:2F:37:PHE:CZ	12:Da:87:PRO:HB3	2.41	0.54
14:2F:90:HIS:NE2	12:Ca:274:THR:HB	2.23	0.54
14:2G:61:LYS:HA	14:2G:64:LYS:HE2	1.89	0.54
22:2P:52:UNK:HA	13:5f:123:ARG:HH12	1.73	0.54
23:2Q:80:UNK:O	12:3e:297:LYS:NZ	2.29	0.54
24:2T:186:ARG:O	24:2T:190:TRP:HE3	1.89	0.54
24:2T:217:ARG:HG3	12:Cg:262:ARG:HD3	1.90	0.54
30:3G:537:GLY:HA2	13:8h:299:ALA:CB	2.37	0.54
34:3M:89:ILE:O	34:3M:93:VAL:HG13	2.07	0.54
34:3M:276:GLU:HG3	34:3M:452:HIS:NE2	2.23	0.54
34:3O:39:GLU:OE1	34:3O:43:ARG:HG3	2.07	0.54
34:3O:345:ALA:O	34:3O:349:LEU:HG	2.08	0.54
34:3O:438:ILE:HB	34:3O:439:PRO:HD3	1.90	0.54
34:3Q:282:GLN:NE2	34:3Q:283:THR:HG23	2.22	0.54
34:3W:302:LEU:O	34:3W:306:VAL:HG23	2.07	0.54
34:3W:334:LEU:O	34:3W:338:LEU:HG	2.07	0.54
34:3X:498:LEU:HD11	34:3Z:105:GLN:CD	2.32	0.54
13:3b:77:GLU:OE2	12:3c:243:PRO:HB3	2.08	0.54
13:3d:207:GLU:OE1	13:3d:304:LYS:NZ	2.30	0.54
12:3g:68:LEU:HD21	12:3g:147:MET:SD	2.48	0.54
12:3g:151:LEU:O	12:3g:155:ILE:HG12	2.08	0.54
35:4C:459:PHE:HB2	35:4C:467:LEU:CD2	2.33	0.54
35:4C:867:SER:HB3	35:4C:885:ARG:HH11	1.73	0.54
37:4E:581:LEU:HD21	43:5L:33:LEU:HD23	1.90	0.54
37:4F:1321:THR:HB	38:4N:29:LYS:NZ	2.21	0.54
37:4H:958:LEU:HD12	37:4H:971:ALA:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1138:VAL:CB	38:4M:30:ALA:HA	2.35	0.54
37:4H:1333:VAL:CA	37:4H:1341:ILE:O	2.55	0.54
37:4H:1334:GLU:HG2	37:4H:1334:GLU:O	2.06	0.54
38:4J:38:VAL:HA	38:4J:41:LYS:HB2	1.89	0.54
38:4P:52:TYR:HD2	38:4P:53:LEU:HD22	1.72	0.54
39:4R:145:ILE:O	39:4R:149:GLN:HG3	2.07	0.54
40:4T:50:LEU:HG	40:4T:77:VAL:HG22	1.90	0.54
40:4T:649:ASP:O	40:4T:650:ASP:HB2	2.08	0.54
40:4V:50:LEU:HG	40:4V:77:VAL:HG22	1.90	0.54
12:4a:131:GLN:HE22	12:4a:163:MET:HG2	1.72	0.54
13:4b:103:PHE:HD2	13:4b:413:MET:HE1	1.73	0.54
12:4c:10:GLY:O	12:4c:14:ASN:ND2	2.40	0.54
13:4d:103:PHE:HD2	13:4d:413:MET:HE1	1.73	0.54
13:4d:248:LEU:HB3	13:4d:354:GLY:HA2	1.89	0.54
12:4e:208:TYR:HA	12:4e:211:CYS:SG	2.48	0.54
13:4f:103:PHE:HD2	13:4f:413:MET:HE1	1.73	0.54
12:4g:151:LEU:O	12:4g:155:ILE:HG12	2.08	0.54
13:4h:342:GLN:NE2	13:4h:343:PHE:O	2.40	0.54
42:5H:86:ILE:N	43:5L:47:LYS:HE3	2.22	0.54
42:5H:143:VAL:HG11	42:5H:144:PHE:CE1	2.41	0.54
13:5b:103:PHE:HD2	13:5b:413:MET:HE1	1.73	0.54
13:5f:103:PHE:HD2	13:5f:413:MET:HE1	1.73	0.54
13:5h:103:PHE:HD2	13:5h:413:MET:HE1	1.73	0.54
47:6A:1376:LEU:O	47:6A:1380:LEU:HG	2.07	0.54
47:6B:351:ARG:HH12	3:6D:522:GLU:HA	1.73	0.54
47:6B:810:LEU:H	47:6B:812:GLN:HE22	1.54	0.54
49:6I:18:GLU:OE2	49:6I:19:VAL:HG13	2.06	0.54
49:6I:344:ASP:HB3	49:6I:347:PRO:CD	2.38	0.54
50:6K:596:GLU:O	50:6K:599:GLU:HG2	2.07	0.54
51:6N:1362:ARG:NH2	51:6N:1409:ASP:OD2	2.40	0.54
51:6N:1900:VAL:HG22	51:6N:1917:LEU:HD11	1.90	0.54
13:7f:248:LEU:HB3	13:7f:354:GLY:HA2	1.89	0.54
13:7f:317:LEU:HB3	13:7f:319:TYR:HE1	1.72	0.54
12:8g:10:GLY:O	12:8g:14:ASN:ND2	2.41	0.54
13:8h:317:LEU:HB3	13:8h:319:TYR:HE1	1.72	0.54
12:9a:64:ILE:HD13	12:9a:120:VAL:HG22	1.90	0.54
12:9a:238:CYS:SG	12:9a:316:LEU:HD21	2.48	0.54
12:9e:232:VAL:HG22	12:9e:270:PHE:HB2	1.88	0.54
12:9e:286:VAL:O	12:9e:290:THR:HG23	2.07	0.54
12:Aa:165:LEU:HD22	12:Aa:250:LEU:HD11	1.90	0.54
12:Aa:330:MET:HG3	12:Aa:351:SER:OG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ab:103:PHE:HD2	13:Ab:413:MET:HE1	1.73	0.54
13:Af:103:PHE:HD2	13:Af:413:MET:HE1	1.73	0.54
13:Af:342:GLN:NE2	13:Af:343:PHE:O	2.40	0.54
12:Cc:11:GLN:HE22	13:Cd:249:ASN:H	1.55	0.54
12:Ce:395:LEU:HD21	12:Ce:405:GLU:OE1	2.07	0.54
13:Cf:317:LEU:HB3	13:Cf:319:TYR:HE1	1.72	0.54
13:Ch:317:LEU:HB3	13:Ch:319:TYR:HE1	1.72	0.54
13:Dd:248:LEU:HB3	13:Dd:354:GLY:HA2	1.89	0.54
13:Df:248:LEU:HB3	13:Df:354:GLY:HA2	1.89	0.54
1:0J:86:PRO:HD3	1:0J:124:SER:HB2	1.88	0.54
1:0W:134:LEU:HB3	1:0W:171:LEU:HB3	1.90	0.54
1:0I:225:LEU:O	1:0I:229:VAL:HG22	2.07	0.54
1:0K:122:ILE:HG23	1:0K:127:LEU:HG	1.88	0.54
1:0A:216:PRO:HA	1:0A:219:ILE:HG13	1.89	0.54
1:0B:349:GLU:HB3	1:0B:351:HIS:CE1	2.42	0.54
1:0C:3:THR:HG22	1:0C:6:VAL:HG23	1.89	0.54
1:0E:278:VAL:HG23	1:0E:285:LEU:HD23	1.89	0.54
1:0F:227:ARG:HG3	1:0F:267:VAL:HG22	1.89	0.54
1:0O:276:ARG:HD2	1:0O:315:MET:SD	2.47	0.54
1:0P:119:GLN:OE1	1:0P:159:LEU:HG	2.07	0.54
1:0Q:115:PRO:HB3	1:0Q:155:HIS:HB3	1.89	0.54
1:0R:324:SER:OG	1:0R:327:LEU:HG	2.08	0.54
1:0X:147:TRP:NE1	1:0X:186:ILE:HG13	2.22	0.54
1:0Y:198:THR:HB	1:0Y:201:LEU:HG	1.89	0.54
1:0Y:316:ALA:O	1:0Y:320:ILE:HG23	2.07	0.54
1:0Y:349:GLU:HB3	1:0Y:351:HIS:CE1	2.42	0.54
1:1A:47:ARG:HG3	1:1A:87:GLN:HE22	1.71	0.54
1:1C:127:LEU:O	1:1C:131:VAL:HG23	2.08	0.54
2:1D:508:VAL:CB	6:1N:1999:VAL:HG11	2.38	0.54
3:1H:854:LEU:HD23	3:1H:859:SER:OG	2.07	0.54
6:1N:702:GLN:O	6:1N:705:VAL:HG22	2.07	0.54
7:1O:3079:VAL:HA	7:1O:3092:HIS:O	2.08	0.54
10:1R:59:GLY:HA3	10:1R:99:THR:HG23	1.90	0.54
14:2F:61:LYS:HA	14:2F:64:LYS:HE2	1.89	0.54
15:2H:158:UNK:CA	12:7g:77:ARG:HH22	2.17	0.54
24:2V:122:ALA:HA	24:2V:135:ARG:HH22	1.73	0.54
28:3C:554:ARG:O	28:3C:558:ARG:HG3	2.07	0.54
30:3G:722:MET:O	30:3G:725:TYR:HB3	2.08	0.54
34:3M:106:ASP:O	34:3M:110:LEU:HG	2.08	0.54
34:3P:270:ILE:HG22	34:3P:273:ARG:NH2	2.22	0.54
34:3U:89:ILE:HD12	34:3U:404:HIS:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3V:254:MET:HG3	34:3V:477:GLU:CD	2.32	0.54
34:3V:507:VAL:O	34:3X:34:PHE:HB3	2.07	0.54
34:3Z:81:GLU:HA	34:3Z:84:GLU:HG3	1.89	0.54
12:3a:179:VAL:HG23	12:3a:180:VAL:HG13	1.89	0.54
12:3e:50:TYR:CE2	12:3e:241:ARG:HD3	2.42	0.54
13:3h:423:GLU:OE2	39:4Q:210:LEU:HB3	2.08	0.54
34:4A:254:MET:HG3	34:4A:477:GLU:CD	2.32	0.54
34:4B:366:VAL:HG22	37:4H:904:ALA:HB1	1.88	0.54
35:4C:546:ASN:HB2	35:4C:709:LEU:HG	1.89	0.54
37:4E:576:ALA:C	43:5L:30:ARG:O	2.49	0.54
37:4E:578:ASP:HA	43:5L:43:GLN:HG2	1.88	0.54
37:4E:856:MET:SD	38:4O:82:TYR:CE1	3.00	0.54
37:4F:518:LEU:HG	37:4F:678:LEU:CD1	2.38	0.54
37:4F:1189:LEU:HD11	37:4F:1305:VAL:HG21	1.90	0.54
37:4F:1300:GLU:HG3	39:4S:20:PHE:CE2	2.43	0.54
37:4G:1092:LEU:HD12	37:4G:1135:PHE:CE2	2.42	0.54
37:4G:1333:VAL:HG23	38:4L:24:THR:C	2.33	0.54
37:4G:1720:LEU:HD11	44:5S:119:LYS:HB2	1.89	0.54
37:4H:574:LEU:HD23	42:5F:130:ALA:HB2	1.89	0.54
37:4H:1091:VAL:CG2	38:4M:30:ALA:O	2.56	0.54
37:4H:1092:LEU:HG	38:4M:36:VAL:C	2.33	0.54
37:4H:1138:VAL:CA	38:4M:33:LYS:HG3	2.36	0.54
37:4H:1172:TRP:HZ3	37:4H:1197:PRO:HG2	1.73	0.54
38:4J:38:VAL:O	38:4J:41:LYS:N	2.41	0.54
38:4J:53:LEU:CD2	38:4M:72:ARG:CD	2.85	0.54
38:4K:38:VAL:HA	38:4K:41:LYS:HB2	1.89	0.54
38:4M:28:VAL:HG12	38:4M:29:LYS:HG2	1.89	0.54
38:4M:30:ALA:C	38:4M:33:LYS:N	2.52	0.54
40:4U:50:LEU:HG	40:4U:77:VAL:HG22	1.89	0.54
40:4U:225:ALA:O	40:4U:229:VAL:HG23	2.07	0.54
40:4V:649:ASP:O	40:4V:650:ASP:HB2	2.08	0.54
12:4c:151:LEU:O	12:4c:155:ILE:HG12	2.08	0.54
42:5E:60:PHE:O	42:5E:64:GLN:HG2	2.07	0.54
42:5H:133:LEU:H	43:5L:50:ILE:CD1	2.14	0.54
42:5H:139:LEU:HB3	43:5L:145:SER:O	2.07	0.54
43:5K:87:ILE:HG23	43:5K:146:TYR:HB3	1.89	0.54
44:5S:30:THR:HB	44:5S:66:THR:OG1	2.06	0.54
12:5a:113:ILE:HA	12:5a:116:VAL:CG2	2.34	0.54
13:5b:313:MET:HE2	13:5b:382:THR:HG22	1.90	0.54
13:5d:103:PHE:HD2	13:5d:413:MET:HE1	1.73	0.54
47:6A:810:LEU:H	47:6A:812:GLN:HE22	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:64:GLN:O	47:6B:64:GLN:HG2	2.06	0.54
47:6B:381:GLN:HA	3:6D:848:ARG:HD2	1.89	0.54
47:6B:956:GLU:HA	47:6B:959:HIS:NE2	2.22	0.54
47:6B:1562:THR:HG22	47:6B:1625:VAL:HG21	1.89	0.54
3:6D:186:ARG:HA	3:6D:189:LEU:HD21	1.90	0.54
48:6F:1033:VAL:O	48:6F:1037:ILE:HG13	2.07	0.54
49:6I:415:HIS:CE1	49:6I:447:ARG:HH21	2.25	0.54
50:6L:290:LEU:HD13	50:6L:293:LEU:HD21	1.90	0.54
51:6M:1674:LEU:HG	51:6M:1689:ARG:HB2	1.90	0.54
51:6M:1900:VAL:HG22	51:6M:1917:LEU:HD11	1.90	0.54
12:6a:171:PRO:HG3	12:6a:181:GLU:HG2	1.89	0.54
13:6b:317:LEU:HB3	13:6b:319:TYR:HE1	1.72	0.54
13:7h:248:LEU:HB3	13:7h:354:GLY:HA2	1.89	0.54
12:8c:176:SER:OG	12:8c:178:THR:O	2.25	0.54
13:8d:317:LEU:HB3	13:8d:319:TYR:HE1	1.72	0.54
12:Aa:252:LYS:HG3	12:Aa:256:ASN:HD21	1.71	0.54
12:Aa:285:THR:HG23	12:Aa:288:GLU:H	1.71	0.54
13:Ab:342:GLN:NE2	13:Ab:343:PHE:O	2.40	0.54
13:Ad:248:LEU:HB3	13:Ad:354:GLY:HA2	1.89	0.54
13:Bb:103:PHE:HD2	13:Bb:413:MET:HE1	1.73	0.54
12:Dg:174:LYS:HZ2	13:Dh:333:ALA:HA	1.73	0.54
13:Dh:188:VAL:HG13	13:Dh:425:LEU:HD22	1.88	0.54
13:Dh:269:LEU:N	13:Dh:379:SER:O	2.33	0.54
1:0H:80:VAL:HG22	1:0H:85:LEU:HD22	1.88	0.54
1:0A:147:TRP:NE1	1:0A:186:ILE:HG13	2.22	0.54
1:0L:52:ASP:HB3	1:0L:58:GLN:HG3	1.88	0.54
1:0N:207:ASP:O	10:1R:254:GLY:HA2	2.08	0.54
1:0N:367:THR:HB	1:0N:370:HIS:CG	2.42	0.54
1:0P:260:LEU:HD11	1:0P:297:ALA:HB1	1.89	0.54
1:0S:95:GLN:HG2	1:0S:96:ASN:H	1.73	0.54
1:0T:256:ILE:HG23	1:0T:271:SER:HB2	1.90	0.54
1:0V:182:SER:O	1:0V:185:ARG:HG2	2.07	0.54
2:1G:153:GLN:O	2:1G:156:VAL:HG22	2.07	0.54
3:1I:835:LEU:HG	3:1I:846:VAL:HG11	1.89	0.54
6:1N:588:PRO:HB3	6:1N:641:TRP:CE3	2.43	0.54
6:1N:1006:LEU:HD13	6:1N:1024:VAL:HG11	1.90	0.54
6:1N:1457:GLU:OE2	6:1N:1458:THR:HG23	2.07	0.54
7:1O:1192:ALA:HB3	7:1O:1193:PRO:HD3	1.90	0.54
10:1S:104:ILE:HG23	10:1S:109:ARG:HB3	1.89	0.54
12:1c:210:ILE:O	12:1c:214:THR:OG1	2.21	0.54
24:2S:129:SER:HA	24:2S:151:PHE:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:3C:539:GLU:HG3	13:4h:339:ARG:HE	1.73	0.54
31:3I:388:ARG:O	31:3I:392:VAL:HG23	2.08	0.54
31:3I:423:GLU:OE1	12:8g:340:TYR:OH	2.20	0.54
32:3J:357:CYS:SG	12:9a:412:GLU:HG3	2.48	0.54
33:3L:140:HIS:HA	33:3L:158:ARG:NH1	2.23	0.54
34:3M:324:HIS:CG	34:3M:407:MET:HE1	2.43	0.54
34:3M:384:ASN:HA	34:3M:387:VAL:HG22	1.89	0.54
34:3P:386:HIS:O	34:3P:390:LEU:HD23	2.08	0.54
34:3P:496:TYR:CE1	34:3S:471:ARG:HA	2.43	0.54
34:3Q:348:LYS:NZ	34:3Q:382:LEU:HD22	2.22	0.54
34:3U:271:ALA:HA	34:3U:274:ILE:HG12	1.88	0.54
34:3W:207:TYR:CE2	34:3Y:289:ALA:HB1	2.42	0.54
34:3Y:258:TYR:CD2	34:3Y:474:TRP:HD1	2.25	0.54
12:3a:86:ARG:NH2	12:4a:281:TYR:CE1	2.76	0.54
12:3g:391:ARG:HG3	13:3h:346:TRP:HB3	1.89	0.54
34:4B:251:LEU:O	34:4B:254:MET:HG3	2.08	0.54
35:4C:540:LYS:CE	37:4E:1730:LEU:HD23	2.34	0.54
35:4C:699:LEU:HD13	35:4C:729:TYR:HB3	1.90	0.54
37:4E:1187:THR:HB	37:4E:1299:ARG:NH1	2.22	0.54
37:4F:563:GLU:CB	42:5G:103:LEU:HD11	2.37	0.54
37:4G:802:TYR:HA	37:4G:809:VAL:HG22	1.90	0.54
37:4G:1080:GLY:O	37:4G:1081:HIS:C	2.50	0.54
37:4G:1626:VAL:HG22	37:4G:1634:PHE:O	2.08	0.54
37:4H:518:LEU:HG	37:4H:678:LEU:CD1	2.38	0.54
38:4I:38:VAL:O	38:4I:41:LYS:N	2.41	0.54
38:4K:75:ASN:HA	38:4N:53:LEU:HD23	1.90	0.54
38:4L:40:LYS:HE3	38:4L:44:LEU:HD12	1.88	0.54
39:4S:63:ILE:HD13	44:5R:96:PHE:CE2	2.42	0.54
40:4T:225:ALA:O	40:4T:229:VAL:HG23	2.07	0.54
13:4h:103:PHE:HD2	13:4h:413:MET:HE1	1.73	0.54
41:5A:21:GLY:CA	43:5L:188:GLU:HA	2.38	0.54
42:5H:91:TYR:OH	43:5L:52:LEU:HB2	2.07	0.54
42:5H:130:ALA:C	42:5H:132:GLY:H	2.12	0.54
42:5H:136:HIS:N	43:5L:48:THR:O	2.40	0.54
44:5U:41:ARG:HG3	44:5U:47:PRO:HD2	1.89	0.54
13:5h:188:VAL:HG13	13:5h:425:LEU:HD22	1.88	0.54
47:6A:347:ARG:HB3	47:6A:350:ARG:HH21	1.72	0.54
47:6B:380:ARG:O	3:6D:848:ARG:NH1	2.40	0.54
47:6B:383:ALA:HA	47:6B:386:GLN:HB2	1.88	0.54
47:6B:877:SER:HB2	48:6E:60:GLY:HA3	1.89	0.54
47:6B:1376:LEU:O	47:6B:1380:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:6E:1033:VAL:O	48:6E:1037:ILE:HG13	2.07	0.54
51:6N:1268:ASN:HB2	51:6N:1271:ASP:HB3	1.88	0.54
51:6N:1674:LEU:HG	51:6N:1689:ARG:HB2	1.90	0.54
51:6N:2207:ARG:NH1	51:6N:2259:ASP:OD2	2.31	0.54
13:6f:224:TYR:CD1	12:6g:323:THR:HG21	2.42	0.54
13:6f:403:ALA:HB2	12:6g:344:TRP:CZ3	2.43	0.54
12:7e:138:SER:OG	53:7e:502:GDP:H5'	2.08	0.54
12:7g:388:MET:HA	13:7h:346:TRP:O	2.08	0.54
12:9a:86:ARG:NH2	12:Aa:278:SER:OG	2.40	0.54
12:9a:258:ILE:HG12	12:9a:266:PHE:HZ	1.73	0.54
13:9b:103:PHE:HD2	13:9b:413:MET:HE1	1.73	0.54
12:Ae:274:THR:OG1	12:Ae:282:ARG:NH1	2.40	0.54
13:Ah:248:LEU:HB3	13:Ah:354:GLY:HA2	1.89	0.54
13:Cd:342:GLN:NE2	13:Cd:343:PHE:O	2.40	0.54
13:Cf:342:GLN:NE2	13:Cf:343:PHE:O	2.40	0.54
13:Dd:188:VAL:HG13	13:Dd:425:LEU:HD22	1.88	0.54
13:Df:188:VAL:HG13	13:Df:425:LEU:HD22	1.88	0.54
13:Df:269:LEU:N	13:Df:379:SER:O	2.33	0.54
12:Dg:68:LEU:HD21	12:Dg:147:MET:SD	2.47	0.54
1:0W:87:GLN:HA	1:0W:90:TYR:HD2	1.72	0.54
1:0W:182:SER:O	1:0W:185:ARG:HG2	2.07	0.54
1:0K:411:LEU:HD22	1:0K:417:LEU:HG	1.90	0.54
1:0B:346:GLU:HG3	1:0B:347:GLU:OE1	2.08	0.54
1:0C:322:ALA:HB2	1:0C:362:GLN:HG2	1.90	0.54
1:0D:417:LEU:O	1:0D:421:VAL:HG23	2.08	0.54
1:0F:261:LYS:HD2	39:4Q:136:LEU:O	2.07	0.54
1:0M:89:VAL:HG11	1:0M:125:GLY:HA3	1.89	0.54
1:0O:133:CYS:HB3	1:0O:141:VAL:HG12	1.90	0.54
1:0O:386:LEU:HA	1:0O:389:ASP:OD1	2.07	0.54
1:0O:394:ASP:OD1	1:0O:395:ASP:N	2.40	0.54
1:0P:371:ALA:HB1	1:0P:407:VAL:HA	1.90	0.54
1:0S:370:HIS:O	1:0S:374:VAL:HG23	2.08	0.54
1:0T:227:ARG:HD3	1:0T:266:PHE:HB2	1.88	0.54
1:0X:3:THR:HG23	1:0X:5:ALA:H	1.73	0.54
1:1B:242:ASP:O	1:1B:246:VAL:HG23	2.07	0.54
4:1K:123:VAL:HG11	4:1K:133:VAL:HG11	1.89	0.54
4:1K:151:GLY:HA3	13:Bd:401:LYS:O	2.08	0.54
5:1M:564:ARG:HH11	13:1f:434:GLU:HG3	1.73	0.54
6:1N:557:ILE:HG12	6:1N:616:LEU:HD23	1.90	0.54
7:1O:2170:LEU:HD22	7:1O:2603:ARG:HH22	1.71	0.54
7:1O:2502:LEU:HD23	8:1P:800:TYR:CE1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1R:140:VAL:O	10:1R:140:VAL:HG23	2.07	0.54
10:1R:369:LYS:NZ	12:Ac:128:ASP:HA	2.23	0.54
10:1R:388:VAL:HG12	13:Bb:299:ALA:HB2	1.90	0.54
12:1a:208:TYR:OH	13:1b:325:PRO:HB2	2.07	0.54
13:1b:313:MET:HE2	13:1b:382:THR:HG22	1.90	0.54
13:2d:248:LEU:HB3	13:2d:354:GLY:HA2	1.89	0.54
32:3K:338:ASP:OD2	13:9h:409:VAL:HG11	2.08	0.54
34:3O:324:HIS:O	34:3O:328:MET:HG2	2.08	0.54
34:3O:489:MET:O	34:3O:493:LYS:HG3	2.08	0.54
34:3O:494:GLN:O	34:3O:498:LEU:HG	2.07	0.54
34:3P:356:PHE:HA	34:3P:359:ARG:HE	1.71	0.54
34:3Q:277:VAL:O	34:3Q:281:GLN:HG2	2.07	0.54
34:3Q:345:ALA:O	34:3Q:349:LEU:HG	2.08	0.54
34:3Q:501:ASP:O	34:3Q:505:THR:HG23	2.08	0.54
34:3T:345:ALA:O	34:3T:348:LYS:HG2	2.08	0.54
34:3U:312:TRP:CD1	34:3U:422:HIS:HE2	2.26	0.54
34:3V:303:SER:O	34:3V:306:VAL:HG12	2.08	0.54
34:3X:81:GLU:HA	34:3X:84:GLU:HG3	1.89	0.54
34:3Z:284:PHE:O	34:3Z:288:MET:HG2	2.08	0.54
34:4A:266:HIS:HA	34:4A:463:HIS:CE1	2.42	0.54
34:4B:334:LEU:O	34:4B:338:LEU:HG	2.08	0.54
37:4E:576:ALA:C	43:5L:52:LEU:HD21	2.33	0.54
37:4E:582:GLN:HA	37:4E:582:GLN:OE1	2.07	0.54
37:4F:935:ARG:NH1	38:4N:49:ILE:HG13	2.16	0.54
37:4F:1172:TRP:HZ3	37:4F:1197:PRO:HG2	1.73	0.54
37:4G:686:HIS:HA	37:4G:689:ARG:HD3	1.89	0.54
37:4G:691:MET:CB	37:4G:691:MET:HG2	2.19	0.54
37:4G:1335:MET:N	37:4G:1335:MET:CE	2.37	0.54
37:4H:1136:ARG:CD	38:4M:29:LYS:CD	2.84	0.54
37:4H:1323:ILE:HG21	38:4M:26:GLU:HG3	1.89	0.54
38:4K:74:ASP:O	38:4N:53:LEU:HB3	2.08	0.54
38:4L:40:LYS:HZ1	38:4L:44:LEU:HB2	1.72	0.54
38:4O:65:MET:HE3	38:4P:53:LEU:HD12	1.89	0.54
12:4a:172:SER:OG	12:4a:175:VAL:O	2.26	0.54
12:4e:207:LEU:HB3	12:4e:225:LEU:HD22	1.89	0.54
12:4e:404:ASP:HB3	12:4e:407:GLU:OE1	2.08	0.54
42:5F:60:PHE:O	42:5F:64:GLN:HG2	2.07	0.54
42:5H:136:HIS:CA	43:5L:47:LYS:O	2.56	0.54
13:5h:313:MET:HE2	13:5h:382:THR:HG22	1.90	0.54
47:6A:1562:THR:HG22	47:6A:1625:VAL:HG21	1.89	0.54
47:6B:402:MET:SD	3:6D:995:PHE:CE2	3.01	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6D:59:GLN:HG3	3:6D:112:THR:HG21	1.89	0.54
49:6H:344:ASP:HB3	49:6H:347:PRO:CD	2.38	0.54
49:6J:18:GLU:OE2	49:6J:19:VAL:HG13	2.06	0.54
49:6J:344:ASP:HB3	49:6J:347:PRO:CD	2.38	0.54
50:6K:556:ARG:NH2	50:6K:580:LEU:HG	2.23	0.54
51:6M:1244:LEU:C	51:6M:1246:PRO:HD2	2.31	0.54
51:6M:2265:ALA:O	51:6M:2276:LEU:HD11	2.07	0.54
51:6N:2265:ALA:O	51:6N:2276:LEU:HD11	2.07	0.54
13:6f:103:PHE:HD2	13:6f:413:MET:HE1	1.73	0.54
13:6h:103:PHE:HD2	13:6h:413:MET:HE1	1.73	0.54
12:7a:174:LYS:HZ2	13:7b:333:ALA:HB2	1.71	0.54
13:7b:342:GLN:NE2	13:7b:343:PHE:O	2.40	0.54
13:7h:317:LEU:HB3	13:7h:319:TYR:HE1	1.72	0.54
13:8d:207:GLU:OE1	13:8d:304:LYS:NZ	2.30	0.54
12:9a:207:LEU:HB3	12:9a:225:LEU:HD22	1.89	0.54
13:9b:269:LEU:N	13:9b:379:SER:O	2.33	0.54
12:Ba:74:ASP:HA	12:Ba:77:ARG:HH21	1.73	0.54
12:Ca:171:PRO:HG3	12:Ca:181:GLU:HG2	1.88	0.54
13:Cb:317:LEU:HB3	13:Cb:319:TYR:HE1	1.72	0.54
12:Cc:177:ASP:O	13:Cd:352:LYS:HA	2.07	0.54
13:Cd:317:LEU:HB3	13:Cd:319:TYR:HE1	1.72	0.54
12:Ce:206:ALA:O	12:Ce:210:ILE:HG23	2.07	0.54
13:Ch:103:PHE:HD2	13:Ch:413:MET:HE1	1.73	0.54
12:Dg:10:GLY:O	12:Dg:14:ASN:ND2	2.39	0.54
12:Dg:179:VAL:HG23	13:Dh:352:LYS:HB2	1.89	0.54
13:Dh:248:LEU:HB3	13:Dh:354:GLY:HA2	1.89	0.54
1:0J:282:THR:HG21	1:0J:285:LEU:HD13	1.89	0.54
1:0I:54:VAL:HB	1:0I:57:ILE:HD12	1.90	0.54
1:0K:311:LEU:HD11	1:0K:351:HIS:CD2	2.42	0.54
1:0A:87:GLN:OE1	47:6B:114:THR:HG21	2.07	0.54
1:0B:87:GLN:HA	1:0B:90:TYR:HD2	1.72	0.54
1:0E:128:ASP:O	1:0E:132:THR:HG23	2.07	0.54
1:0L:11:GLU:HG2	1:0L:15:LYS:HZ3	1.73	0.54
1:0L:227:ARG:HG3	1:0L:267:VAL:HG22	1.89	0.54
1:0L:358:TRP:CD1	1:0L:362:GLN:HE22	2.26	0.54
1:0N:322:ALA:HB2	1:0N:362:GLN:HG2	1.90	0.54
1:0Q:72:SER:OG	1:0Q:75:LEU:HG	2.07	0.54
1:0Q:346:GLU:HG3	1:0Q:347:GLU:CD	2.33	0.54
1:0S:282:THR:OG1	1:0S:285:LEU:HG	2.07	0.54
1:0S:363:ILE:HG22	1:0S:370:HIS:HB3	1.90	0.54
1:0V:72:SER:HB3	1:0V:75:LEU:HG	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Y:296:GLY:HA2	1:0Y:299:VAL:HG22	1.88	0.54
1:1A:131:VAL:HG13	1:1A:171:LEU:HD11	1.88	0.54
1:1C:370:HIS:O	1:1C:374:VAL:HG23	2.07	0.54
2:1D:465:ASP:O	6:1N:2007:ALA:HB1	2.08	0.54
2:1G:233:LEU:HB3	2:1G:234:PRO:HD3	1.89	0.54
3:1H:140:ALA:HB2	3:1H:164:TYR:HA	1.90	0.54
3:1H:991:ILE:HG21	3:1H:1010:LEU:HD11	1.88	0.54
4:1J:123:VAL:HG11	4:1J:133:VAL:HG11	1.89	0.54
5:1L:482:VAL:HG23	12:1c:410:GLU:OE1	2.08	0.54
5:1M:393:LEU:HD22	5:1M:432:GLN:HB3	1.90	0.54
6:1N:1185:GLY:O	6:1N:1186:LYS:HG3	2.07	0.54
10:1R:88:GLU:HG3	10:1R:115:HIS:HD2	1.72	0.54
12:1a:50:TYR:CE2	12:1a:241:ARG:HD3	2.43	0.54
12:1c:170:VAL:CG2	12:1c:201:VAL:HG23	2.38	0.54
13:1f:313:MET:HE2	13:1f:382:THR:HG22	1.90	0.54
14:2F:38:LYS:NZ	12:Da:87:PRO:O	2.41	0.54
14:2G:41:TRP:HZ2	12:De:74:ASP:N	2.06	0.54
24:2V:171:LYS:NZ	13:Df:339:ARG:HG2	2.23	0.54
13:2b:342:GLN:NE2	13:2b:343:PHE:O	2.40	0.54
13:2h:342:GLN:NE2	13:2h:343:PHE:O	2.40	0.54
29:3E:1161:ARG:HG2	12:5e:417:ASP:OD1	2.07	0.54
30:3F:273:GLU:O	30:3F:276:LEU:HG	2.07	0.54
30:3F:342:ARG:NH1	12:7g:262:ARG:HD2	2.23	0.54
30:3F:510:ILE:HG12	12:7a:106:TYR:CE2	2.42	0.54
30:3G:531:GLU:C	30:3G:533:GLY:N	2.66	0.54
30:3G:532:THR:HG22	30:3G:543:SER:HB3	1.89	0.54
30:3G:533:GLY:CA	13:7h:113:GLU:OE2	2.54	0.54
34:3O:116:ARG:O	34:3O:120:GLU:HG2	2.07	0.54
34:3O:500:TYR:HA	34:3O:503:ASN:ND2	2.22	0.54
34:3V:436:ARG:O	34:3V:440:GLU:HG2	2.08	0.54
34:3W:190:ASN:HA	34:3W:193:LEU:CD1	2.38	0.54
13:3b:207:GLU:OE1	13:3b:304:LYS:NZ	2.30	0.54
12:3c:175:VAL:HG11	13:3d:332:VAL:CG1	2.36	0.54
12:3c:267:MET:HE1	12:3c:305:PRO:HG3	1.89	0.54
35:4C:290:VAL:HG23	35:4C:291:PHE:HD1	1.73	0.54
36:4D:142:ASN:OD1	36:4D:143:ILE:N	2.33	0.54
36:4D:173:LEU:CD2	36:4D:229:VAL:HA	2.38	0.54
37:4E:744:THR:HG22	37:4E:747:ARG:HH12	1.72	0.54
37:4E:1290:PRO:C	37:4E:1292:THR:H	2.15	0.54
37:4F:972:PHE:CD1	37:4F:972:PHE:N	2.71	0.54
37:4G:1093:VAL:CG2	38:4L:36:VAL:CG1	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1158:PRO:HG3	37:4G:1325:ARG:NH2	2.22	0.54
37:4G:1172:TRP:HZ3	37:4G:1197:PRO:HG2	1.73	0.54
37:4H:544:MET:CE	38:4M:70:LYS:O	2.55	0.54
37:4H:880:ILE:HB	37:4H:926:SER:OG	2.08	0.54
37:4H:1082:LEU:HD22	37:4H:1094:ALA:HB3	1.87	0.54
37:4H:1315:VAL:O	37:4H:1322:ARG:N	2.40	0.54
38:4J:82:TYR:N	38:4J:82:TYR:CD1	2.71	0.54
38:4L:61:LEU:HA	38:4L:64:GLY:HA3	1.88	0.54
39:4S:4:LEU:HD13	43:5K:137:ARG:CA	2.38	0.54
40:4T:78:ARG:HB3	40:4T:311:VAL:CG2	2.37	0.54
40:4V:213:LEU:CD1	40:4V:221:GLN:HB2	2.38	0.54
13:4d:188:VAL:HG13	13:4d:425:LEU:HD22	1.88	0.54
13:4h:188:VAL:HG13	13:4h:425:LEU:HD22	1.88	0.54
41:5A:139:GLU:C	41:5A:141:ASN:N	2.66	0.54
42:5H:96:ALA:N	43:5L:44:THR:CA	2.20	0.54
42:5H:137:TYR:HB2	43:5L:46:PRO:CA	2.36	0.54
42:5H:140:TYR:HB2	43:5L:47:LYS:CG	2.38	0.54
44:5V:47:PRO:O	44:5V:52:LEU:HB2	2.08	0.54
46:5Z:63:UNK:HA	46:5Z:104:UNK:HA	1.90	0.54
12:5c:101:TRP:HD1	12:5c:145:SER:OG	1.90	0.54
12:5e:257:LEU:HA	12:5e:312:THR:HG21	1.88	0.54
12:5g:10:GLY:O	12:5g:14:ASN:ND2	2.40	0.54
12:5g:151:LEU:O	12:5g:155:ILE:HG12	2.08	0.54
47:6B:288:ASP:C	3:6D:197:SER:O	2.50	0.54
47:6B:347:ARG:HB3	47:6B:350:ARG:HH21	1.72	0.54
48:6E:290:ASP:HA	48:6E:295:LEU:HD22	1.90	0.54
48:6F:353:ILE:HG13	48:6F:354:PRO:CD	2.33	0.54
51:6N:1368:THR:O	51:6N:1368:THR:HG22	2.08	0.54
13:6d:103:PHE:HD2	13:6d:413:MET:HE1	1.73	0.54
13:7b:248:LEU:HB3	13:7b:354:GLY:HA2	1.89	0.54
12:7e:286:VAL:O	12:7e:290:THR:HG23	2.08	0.54
12:7g:86:ARG:HD2	12:8g:281:TYR:HB3	1.90	0.54
12:7g:391:ARG:HH21	13:7h:435:VAL:HA	1.73	0.54
13:8b:103:PHE:HD2	13:8b:413:MET:HE1	1.73	0.54
13:8b:313:MET:HE2	13:8b:382:THR:HG22	1.90	0.54
13:9d:103:PHE:HD2	13:9d:413:MET:HE1	1.73	0.54
12:Ae:86:ARG:CD	12:Be:281:TYR:CD1	2.83	0.54
12:Ae:171:PRO:HG3	12:Ae:181:GLU:HG2	1.90	0.54
12:Ba:222:PHE:CD2	13:Bb:247:ALA:HB1	2.42	0.54
54:Bb:501:GTP:O3G	12:Bc:252:LYS:HE2	2.08	0.54
12:Bc:67:ASP:O	12:Bc:92:PHE:HA	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bg:134:GLN:HA	12:Bg:165:LEU:O	2.08	0.54
12:De:175:VAL:HG21	13:Df:332:VAL:CG1	2.38	0.54
12:Dg:111:GLU:OE2	12:Dg:112:LEU:HG	2.08	0.54
1:0A:39:GLN:NE2	47:6A:246:ARG:NH2	2.56	0.54
1:0B:39:GLN:NE2	47:6B:130:GLY:C	2.66	0.54
1:0C:34:ILE:HD13	1:0C:71:TYR:HB2	1.89	0.54
1:0C:262:PHE:CD1	1:0C:263:PRO:HD2	2.43	0.54
1:0G:87:GLN:HA	1:0G:90:TYR:HD2	1.71	0.54
1:0G:329:LEU:HD22	39:4R:118:ARG:NH2	2.22	0.54
1:0G:346:GLU:HG3	1:0G:347:GLU:OE1	2.07	0.54
1:0N:361:GLY:HA2	1:0N:403:ALA:HA	1.90	0.54
1:0P:185:ARG:HD3	1:0P:224:LYS:HB2	1.90	0.54
1:0Q:201:LEU:O	1:0Q:205:VAL:HG23	2.08	0.54
1:0S:219:ILE:HG12	1:0S:255:LYS:HG2	1.90	0.54
1:0Z:324:SER:OG	1:0Z:326:THR:HG22	2.08	0.54
1:1B:119:GLN:HG3	1:1B:159:LEU:HD11	1.89	0.54
1:1C:122:ILE:HG23	1:1C:127:LEU:HG	1.89	0.54
1:1C:262:PHE:CE2	1:1C:264:ASP:HB3	2.43	0.54
2:1G:148:PRO:O	2:1G:152:THR:HG23	2.08	0.54
4:1J:204:SER:HG	4:1J:287:HIS:CD2	2.24	0.54
8:1P:978:LEU:HD23	8:1P:980:ARG:N	2.23	0.54
13:1d:313:MET:HE2	13:1d:382:THR:HG22	1.90	0.54
12:1g:232:VAL:HG21	12:1g:300:MET:SD	2.48	0.54
13:1h:313:MET:HE2	13:1h:382:THR:HG22	1.90	0.54
24:2V:220:TYR:OH	12:Ce:262:ARG:HD2	2.08	0.54
12:2g:177:ASP:OD1	13:2h:248:LEU:HD21	2.07	0.54
13:2h:248:LEU:HB3	13:2h:354:GLY:HA2	1.89	0.54
33:3L:105:LEU:HB3	33:3L:108:GLN:HB2	1.89	0.54
34:3O:82:ILE:HG23	34:3O:408:ARG:HD2	1.89	0.54
34:3P:120:GLU:HA	34:3P:120:GLU:OE2	2.08	0.54
34:3R:107:TYR:HB2	34:3R:342:GLN:HE22	1.73	0.54
34:3Z:452:HIS:HA	34:3Z:455:THR:OG1	2.07	0.54
12:3c:10:GLY:O	12:3c:14:ASN:ND2	2.39	0.54
12:3c:151:LEU:O	12:3c:155:ILE:HG12	2.08	0.54
34:4A:100:ILE:HG12	34:4A:338:LEU:HD22	1.90	0.54
34:4A:377:ARG:HH22	37:4F:896:SER:C	2.16	0.54
35:4C:424:ALA:CB	35:4C:462:ALA:HA	2.36	0.54
36:4D:7:ASP:O	36:4D:10:ILE:HG12	2.08	0.54
36:4D:213:TRP:HE3	36:4D:222:TYR:CE2	2.25	0.54
36:4D:218:ARG:CG	46:5Z:95:MET:HB3	2.38	0.54
37:4E:573:ALA:C	43:5L:30:ARG:CD	2.80	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:576:ALA:HA	37:4E:581:LEU:HD23	1.89	0.54
37:4E:586:PHE:HE1	43:5L:59:LEU:HD21	1.73	0.54
37:4E:589:PRO:CG	43:5L:17:SER:HA	2.37	0.54
37:4G:1083:ILE:C	38:4L:38:VAL:N	2.66	0.54
37:4H:1094:ALA:HB1	37:4H:1095:PRO:O	2.08	0.54
37:4H:1333:VAL:HG23	37:4H:1342:LEU:N	2.22	0.54
37:4H:1720:LEU:HD11	44:5T:119:LYS:HB2	1.89	0.54
38:4J:38:VAL:C	38:4J:41:LYS:H	2.15	0.54
38:4J:53:LEU:HD23	38:4M:72:ARG:CB	2.34	0.54
38:4K:38:VAL:O	38:4K:41:LYS:N	2.41	0.54
38:4L:75:ASN:C	38:4L:77:VAL:N	2.66	0.54
39:4Q:63:ILE:HD13	44:5P:96:PHE:CE2	2.42	0.54
40:4T:213:LEU:CD1	40:4T:221:GLN:HB2	2.38	0.54
40:4U:78:ARG:HB3	40:4U:311:VAL:CG2	2.37	0.54
40:4V:78:ARG:HB3	40:4V:311:VAL:CG2	2.37	0.54
40:4V:636:GLY:O	40:4V:638:THR:N	2.33	0.54
13:4b:188:VAL:HG13	13:4b:425:LEU:HD22	1.88	0.54
13:4f:188:VAL:HG13	13:4f:425:LEU:HD22	1.88	0.54
42:5E:148:GLN:HE21	43:5I:144:TYR:HA	1.72	0.54
42:5G:60:PHE:O	42:5G:64:GLN:HG2	2.07	0.54
42:5H:93:GLU:CA	43:5L:44:THR:OG1	2.56	0.54
43:5I:87:ILE:HG23	43:5I:146:TYR:HB3	1.89	0.54
44:5T:32:THR:OG1	44:5T:35:GLU:HG2	2.08	0.54
12:5c:10:GLY:O	12:5c:14:ASN:ND2	2.40	0.54
12:5c:86:ARG:HA	12:6c:281:TYR:CD1	2.43	0.54
12:5e:207:LEU:HB3	12:5e:225:LEU:HD22	1.89	0.54
13:5f:255:PHE:O	13:5f:259:LEU:HB2	2.08	0.54
13:5f:342:GLN:NE2	13:5f:343:PHE:O	2.40	0.54
47:6A:107:THR:HG22	47:6A:110:LYS:NZ	2.23	0.54
47:6A:403:ARG:O	47:6A:406:ARG:HB3	2.08	0.54
47:6A:956:GLU:HA	47:6A:959:HIS:NE2	2.22	0.54
47:6B:403:ARG:O	47:6B:406:ARG:HB3	2.08	0.54
47:6B:952:ARG:NH1	47:6B:1036:SER:HB3	2.22	0.54
3:6D:83:LEU:O	3:6D:86:THR:OG1	2.22	0.54
48:6E:353:ILE:HG13	48:6E:354:PRO:CD	2.33	0.54
48:6F:899:LEU:H	48:6F:899:LEU:HD23	1.71	0.54
49:6H:191:SER:HB2	49:6H:437:ILE:O	2.08	0.54
50:6L:556:ARG:NH2	50:6L:580:LEU:HG	2.23	0.54
50:6L:596:GLU:O	50:6L:599:GLU:HG2	2.07	0.54
51:6M:1368:THR:O	51:6M:1368:THR:HG22	2.08	0.54
13:6b:103:PHE:HD2	13:6b:413:MET:HE1	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:7a:334:GLN:HE21	12:7a:349:VAL:HG12	1.73	0.54
13:7b:313:MET:HE2	13:7b:382:THR:HG22	1.90	0.54
13:7b:317:LEU:HB3	13:7b:319:TYR:HE1	1.72	0.54
13:7d:313:MET:HE2	13:7d:382:THR:HG22	1.90	0.54
12:8a:50:TYR:CE2	12:8a:241:ARG:HD3	2.42	0.54
13:8f:248:LEU:HB3	13:8f:354:GLY:HA2	1.89	0.54
12:9a:58:ARG:NH2	12:Aa:281:TYR:OH	2.41	0.54
12:9a:342:VAL:HG21	12:9a:345:ILE:HD13	1.88	0.54
13:9b:313:MET:HE2	13:9b:382:THR:HG22	1.90	0.54
12:Aa:275:SER:OG	12:Aa:278:SER:HB3	2.07	0.54
12:Ac:151:LEU:O	12:Ac:155:ILE:HG12	2.08	0.54
12:Ac:417:ASP:O	12:Ac:421:GLU:HG2	2.07	0.54
12:Ag:151:LEU:O	12:Ag:155:ILE:HG12	2.08	0.54
13:Ch:269:LEU:N	13:Ch:379:SER:O	2.33	0.54
13:Ch:342:GLN:NE2	13:Ch:343:PHE:O	2.40	0.54
13:Dd:269:LEU:N	13:Dd:379:SER:O	2.33	0.54
1:0H:185:ARG:HD3	1:0H:224:LYS:HB2	1.90	0.54
1:0J:262:PHE:CD1	1:0J:263:PRO:HD2	2.43	0.54
1:0W:122:ILE:HG21	1:0W:162:GLN:NE2	2.22	0.54
1:0C:256:ILE:HG23	1:0C:271:SER:HB2	1.90	0.54
1:0G:122:ILE:HG12	1:0G:127:LEU:HD21	1.90	0.54
1:0M:206:VAL:HG21	1:0M:243:LEU:HD22	1.90	0.54
1:0N:371:ALA:HB1	1:0N:407:VAL:HA	1.90	0.54
1:0O:206:VAL:HG21	1:0O:243:LEU:HD22	1.90	0.54
1:0R:47:ARG:HG3	1:0R:84:ILE:HG12	1.89	0.54
1:0T:230:CYS:HB2	1:0T:270:HIS:HB3	1.90	0.54
1:1A:198:THR:HB	1:1A:201:LEU:HG	1.88	0.54
3:1I:140:ALA:HB2	3:1I:164:TYR:HA	1.90	0.54
4:1J:231:ALA:HB2	4:1J:237:VAL:HG12	1.90	0.54
4:1K:231:ALA:HB2	4:1K:237:VAL:HG12	1.90	0.54
5:1L:393:LEU:HD22	5:1L:432:GLN:HB3	1.90	0.54
10:1R:415:TYR:CD2	13:Ab:127:ASP:HB3	2.42	0.54
14:2G:105:ALA:O	12:Ce:277:GLY:HA3	2.08	0.54
15:2H:195:UNK:O	13:6h:36:MET:HE2	2.08	0.54
16:2I:63:UNK:O	12:Bc:77:ARG:NH1	2.40	0.54
13:2b:248:LEU:HB3	13:2b:354:GLY:HA2	1.89	0.54
12:2c:207:LEU:O	12:2c:210:ILE:HG22	2.07	0.54
13:2d:342:GLN:NE2	13:2d:343:PHE:O	2.40	0.54
13:2f:342:GLN:NE2	13:2f:343:PHE:O	2.40	0.54
12:2g:377:MET:O	12:2g:381:VAL:HG23	2.07	0.54
33:3L:72:LEU:HD12	33:3L:89:PHE:HE2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3P:71:LEU:O	34:3P:75:GLN:HG3	2.08	0.54
34:3P:312:TRP:CD1	34:3P:422:HIS:HE2	2.26	0.54
34:3R:103:LEU:C	34:3R:103:LEU:HD12	2.33	0.54
34:3U:115:SER:O	34:3U:119:MET:HG2	2.08	0.54
34:3U:370:GLU:OE2	34:3Z:359:ARG:HB2	2.08	0.54
34:3V:345:ALA:O	34:3V:349:LEU:HD23	2.08	0.54
34:3W:477:GLU:CG	37:4H:1612:THR:HG22	2.37	0.54
12:3c:171:PRO:HB3	12:3c:181:GLU:CG	2.38	0.54
12:3g:10:GLY:O	12:3g:14:ASN:ND2	2.40	0.54
35:4C:300:PHE:HE1	35:4C:386:LEU:HD21	1.73	0.54
35:4C:1050:ASP:HB2	35:4C:1052:THR:OG1	2.08	0.54
36:4D:69:LEU:HD22	36:4D:100:THR:HG23	1.90	0.54
36:4D:119:ARG:NH2	36:4D:190:THR:O	2.39	0.54
37:4E:577:LEU:HD12	43:5L:30:ARG:NH2	2.19	0.54
37:4E:582:GLN:HG2	43:5L:34:ALA:HA	1.89	0.54
37:4E:1185:LEU:HD13	37:4E:1195:ARG:HB3	1.90	0.54
37:4F:526:ARG:HH22	37:4F:681:GLU:CD	2.16	0.54
37:4F:1336:ASP:HA	37:4F:1709:LEU:HB2	1.89	0.54
37:4H:540:VAL:CB	38:4M:72:ARG:NH1	2.71	0.54
37:4H:1303:VAL:HG12	37:4H:1317:ASP:CA	2.38	0.54
37:4H:1760:SER:HB3	43:5J:120:SER:HA	1.89	0.54
38:4L:28:VAL:HG12	38:4L:29:LYS:HG2	1.89	0.54
38:4M:47:ALA:O	38:4M:48:PRO:C	2.49	0.54
38:4N:38:VAL:C	38:4N:41:LYS:H	2.15	0.54
38:4N:38:VAL:HA	38:4N:41:LYS:HB2	1.89	0.54
38:4N:40:LYS:HE3	38:4N:44:LEU:HD12	1.88	0.54
39:4R:48:LEU:HD13	44:5T:124:GLU:HB3	1.90	0.54
39:4S:48:LEU:CD1	44:5U:124:GLU:HB3	2.38	0.54
41:4Z:145:GLY:O	41:4Z:161:PHE:N	2.36	0.54
12:4a:64:ILE:HD13	12:4a:120:VAL:HG22	1.90	0.54
12:4c:232:VAL:HG21	12:4c:300:MET:SD	2.48	0.54
12:4c:355:ASP:OD1	12:4c:356:ILE:HG12	2.08	0.54
13:4h:313:MET:HE2	13:4h:382:THR:HG22	1.90	0.54
41:5A:21:GLY:HA2	43:5L:187:GLU:O	2.05	0.54
43:5I:79:VAL:HG22	43:5I:131:MET:HE1	1.90	0.54
44:5S:32:THR:OG1	44:5S:35:GLU:HG2	2.08	0.54
44:5U:32:THR:OG1	44:5U:35:GLU:HG2	2.08	0.54
12:5a:389:PHE:HD1	12:5a:395:LEU:HD11	1.72	0.54
13:5d:255:PHE:O	13:5d:259:LEU:HB2	2.08	0.54
13:5d:313:MET:HE2	13:5d:382:THR:HG22	1.90	0.54
13:5d:342:GLN:NE2	13:5d:343:PHE:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5f:313:MET:HE2	13:5f:382:THR:HG22	1.90	0.54
47:6B:107:THR:HG22	47:6B:110:LYS:NZ	2.23	0.54
3:6D:594:GLY:O	3:6D:597:ARG:N	2.35	0.54
48:6E:1037:ILE:HG12	48:6E:1053:TYR:CG	2.43	0.54
48:6F:1037:ILE:HG12	48:6F:1053:TYR:CG	2.43	0.54
49:6G:191:SER:HB2	49:6G:437:ILE:O	2.08	0.54
49:6I:191:SER:HB2	49:6I:437:ILE:O	2.08	0.54
49:6J:191:SER:HB2	49:6J:437:ILE:O	2.08	0.54
13:6d:207:GLU:OE1	13:6d:304:LYS:NZ	2.30	0.54
13:6d:317:LEU:HB3	13:6d:319:TYR:HE1	1.72	0.54
13:7d:103:PHE:HD2	13:7d:413:MET:HE1	1.73	0.54
12:7e:3:GLU:HB2	12:7e:127:CYS:SG	2.48	0.54
12:7g:272:PRO:HD3	12:7g:364:SER:HA	1.90	0.54
13:7h:103:PHE:HD2	13:7h:413:MET:HE1	1.73	0.54
13:7h:107:HIS:O	13:7h:112:LYS:NZ	2.41	0.54
13:8d:248:LEU:HB3	13:8d:354:GLY:HA2	1.89	0.54
13:8d:313:MET:HE2	13:8d:382:THR:HG22	1.90	0.54
13:8f:313:MET:HE2	13:8f:382:THR:HG22	1.90	0.54
13:9d:269:LEU:N	13:9d:379:SER:O	2.33	0.54
13:9d:313:MET:HE2	13:9d:382:THR:HG22	1.90	0.54
13:9f:269:LEU:N	13:9f:379:SER:O	2.33	0.54
12:Ac:111:GLU:OE2	12:Ac:112:LEU:HG	2.08	0.54
13:Ad:342:GLN:NE2	13:Ad:343:PHE:O	2.40	0.54
13:Cf:103:PHE:HD2	13:Cf:413:MET:HE1	1.73	0.54
13:Db:255:PHE:O	13:Db:259:LEU:HB2	2.08	0.54
13:Df:207:GLU:OE1	13:Df:304:LYS:NZ	2.30	0.54
12:Dg:151:LEU:O	12:Dg:155:ILE:HG12	2.08	0.54
1:0J:193:ASP:O	1:0J:197:HIS:HD2	1.91	0.54
1:0W:346:GLU:HG3	1:0W:347:GLU:OE1	2.07	0.54
1:0I:6:VAL:CG1	1:0I:10:PHE:HE2	2.21	0.54
1:0K:262:PHE:CD1	1:0K:263:PRO:HD2	2.43	0.54
1:0D:242:ASP:O	1:0D:246:VAL:HG23	2.07	0.53
1:0E:34:ILE:HG23	1:0E:68:LEU:HD22	1.90	0.53
1:0O:245:GLU:HA	1:0O:248:VAL:HG22	1.88	0.53
1:0Q:48:PRO:HA	1:0Q:51:LEU:HD12	1.90	0.53
1:0R:88:LEU:O	1:0R:91:SER:HB3	2.08	0.53
1:0R:367:THR:HB	1:0R:370:HIS:CG	2.43	0.53
1:0R:394:ASP:N	1:0R:394:ASP:OD2	2.41	0.53
1:0T:358:TRP:CD1	1:0T:362:GLN:HE22	2.27	0.53
1:0V:324:SER:OG	1:0V:326:THR:HG22	2.07	0.53
1:0X:128:ASP:OD1	1:0X:129:SER:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Z:3:THR:HG22	1:0Z:6:VAL:HG23	1.89	0.53
1:0Z:76:ALA:HB1	1:0Z:110:VAL:HG13	1.90	0.53
1:1B:80:VAL:HG11	1:1B:120:SER:HB2	1.88	0.53
2:1F:503:ALA:O	2:1F:507:HIS:N	2.34	0.53
4:1K:204:SER:HG	4:1K:287:HIS:CD2	2.24	0.53
7:1O:1738:GLN:HB3	7:1O:1849:ARG:HD3	1.90	0.53
10:1R:375:GLU:HA	10:1R:378:LEU:HG	1.90	0.53
10:1R:415:TYR:CE2	13:Ab:127:ASP:HB3	2.43	0.53
12:1e:221:THR:HA	13:1f:325:PRO:HD2	1.91	0.53
13:1f:407:TRP:HE1	12:1g:258:ILE:HB	1.71	0.53
24:2S:142:GLY:O	13:Cb:120:ASP:OD1	2.26	0.53
32:3K:125:VAL:HG13	32:3K:132:LEU:HB3	1.90	0.53
34:3P:501:ASP:O	34:3P:505:THR:HG23	2.07	0.53
34:3Q:367:GLY:O	34:3Q:370:GLU:HG2	2.09	0.53
34:3Q:507:VAL:HG22	34:3T:273:ARG:HH12	1.72	0.53
34:3R:382:LEU:HA	34:3R:385:GLU:OE1	2.08	0.53
34:3S:46:ARG:HE	34:3S:449:GLU:CD	2.15	0.53
34:3V:122:GLN:HB3	34:3V:126:PHE:CE1	2.39	0.53
34:3W:190:ASN:HA	34:3W:193:LEU:HD13	1.91	0.53
34:3Z:338:LEU:HG	34:3Z:342:GLN:HE22	1.73	0.53
13:3d:399:TYR:HE2	39:4S:217:LEU:HB3	1.73	0.53
36:4D:89:ASP:OD2	36:4D:100:THR:HG22	2.09	0.53
36:4D:203:TRP:HZ3	36:4D:218:ARG:HD3	1.73	0.53
37:4E:579:THR:CG2	37:4E:579:THR:CA	2.81	0.53
37:4E:583:GLU:CA	43:5L:35:LYS:C	2.81	0.53
37:4E:583:GLU:CB	43:5L:35:LYS:CA	2.81	0.53
37:4F:509:PRO:C	37:4F:510:HIS:CD2	2.86	0.53
37:4F:1350:ILE:CG2	37:4F:1351:SER:N	2.69	0.53
37:4G:1334:GLU:HG3	37:4G:1340:PRO:CB	2.38	0.53
37:4H:1304:MET:C	37:4H:1315:VAL:HG23	2.33	0.53
38:4M:36:VAL:HG23	38:4M:36:VAL:O	2.07	0.53
41:4Y:145:GLY:O	41:4Y:161:PHE:N	2.36	0.53
13:4b:313:MET:HE2	13:4b:382:THR:HG22	1.90	0.53
12:4e:54:ALA:HB2	12:4e:86:ARG:NH2	2.23	0.53
12:4g:382:SER:O	12:4g:386:THR:HG22	2.08	0.53
41:5D:145:GLY:O	41:5D:161:PHE:CB	2.56	0.53
43:5K:79:VAL:HG22	43:5K:131:MET:HE1	1.89	0.53
12:5a:318:ARG:NH1	12:5a:358:PRO:HB3	2.23	0.53
12:5c:272:PRO:HD3	12:5c:364:SER:HA	1.90	0.53
12:5e:91:VAL:CG2	12:5e:116:VAL:HG12	2.37	0.53
12:5g:116:VAL:O	12:5g:119:VAL:HG12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5h:207:GLU:OE1	13:5h:304:LYS:NZ	2.30	0.53
13:5h:255:PHE:O	13:5h:259:LEU:HB2	2.08	0.53
47:6B:81:MET:O	47:6B:86:GLU:OE1	2.26	0.53
47:6B:788:ASP:HB3	47:6B:791:SER:OG	2.08	0.53
3:6D:505:GLY:HA3	3:6D:549:VAL:HG21	1.90	0.53
3:6D:524:ARG:CZ	3:6D:583:LEU:HD13	2.38	0.53
3:6D:926:MET:HE2	3:6D:930:LYS:HB3	1.90	0.53
48:6E:737:ARG:HB3	49:6G:14:LYS:NZ	2.23	0.53
48:6E:800:LEU:HG	48:6E:810:LEU:CB	2.37	0.53
48:6E:884:LEU:CD1	48:6E:886:VAL:HG23	2.38	0.53
48:6F:290:ASP:HA	48:6F:295:LEU:HD22	1.90	0.53
48:6F:800:LEU:HG	48:6F:810:LEU:CB	2.38	0.53
51:6M:1268:ASN:HB2	51:6M:1271:ASP:HB3	1.88	0.53
13:6d:212:ILE:O	13:6d:216:SER:OG	2.25	0.53
12:6e:232:VAL:HG22	12:6e:270:PHE:HB2	1.90	0.53
13:6f:317:LEU:HB3	13:6f:319:TYR:HE1	1.72	0.53
13:6h:207:GLU:OE1	13:6h:304:LYS:NZ	2.30	0.53
13:6h:317:LEU:HB3	13:6h:319:TYR:HE1	1.72	0.53
13:7d:317:LEU:HB3	13:7d:319:TYR:HE1	1.72	0.53
13:7f:313:MET:HE2	13:7f:382:THR:HG22	1.90	0.53
12:8a:131:GLN:HE22	12:8a:250:LEU:HB2	1.70	0.53
12:8c:86:ARG:NH2	12:9c:282:ARG:HA	2.15	0.53
13:8d:103:PHE:HD2	13:8d:413:MET:HE1	1.73	0.53
13:8f:103:PHE:HD2	13:8f:413:MET:HE1	1.73	0.53
13:8h:313:MET:HE2	13:8h:382:THR:HG22	1.90	0.53
12:9c:267:MET:HE1	12:9c:305:PRO:HG3	1.89	0.53
12:9g:165:LEU:HD22	12:9g:250:LEU:HD11	1.90	0.53
13:9h:313:MET:HE2	13:9h:382:THR:HG22	1.90	0.53
12:Ag:55:THR:HG21	12:Bg:284:LEU:HD13	1.89	0.53
13:Ah:342:GLN:NE2	13:Ah:343:PHE:O	2.40	0.53
12:Be:207:LEU:HB3	12:Be:225:LEU:HD22	1.90	0.53
13:Bf:207:GLU:OE1	13:Bf:304:LYS:NZ	2.30	0.53
12:Bg:267:MET:HE1	12:Bg:305:PRO:HG3	1.90	0.53
13:Bh:255:PHE:O	13:Bh:259:LEU:HB2	2.08	0.53
13:Cd:103:PHE:HD2	13:Cd:413:MET:HE1	1.73	0.53
13:Cf:313:MET:HE2	13:Cf:382:THR:HG22	1.90	0.53
13:Ch:313:MET:HE2	13:Ch:382:THR:HG22	1.90	0.53
13:Dd:255:PHE:O	13:Dd:259:LEU:HB2	2.08	0.53
12:Dg:72:THR:O	12:Dg:76:VAL:HG23	2.08	0.53
1:0H:243:LEU:O	1:0H:247:VAL:HG23	2.08	0.53
1:0H:260:LEU:HD11	1:0H:297:ALA:HB1	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0H:371:ALA:HB1	1:0H:407:VAL:HA	1.90	0.53
1:0W:262:PHE:CD1	1:0W:263:PRO:HD2	2.43	0.53
1:0I:48:PRO:HA	1:0I:51:LEU:HD12	1.90	0.53
1:0K:227:ARG:HG3	1:0K:267:VAL:HG22	1.88	0.53
1:0A:134:LEU:HA	1:0A:142:LYS:HA	1.89	0.53
1:0B:47:ARG:O	1:0B:51:LEU:HG	2.08	0.53
1:0D:217:LEU:HB2	1:0D:229:VAL:HG11	1.90	0.53
1:0E:127:LEU:HD23	1:0E:130:LEU:HD12	1.90	0.53
1:0E:262:PHE:CD1	1:0E:263:PRO:HD2	2.43	0.53
1:0G:316:ALA:O	1:0G:320:ILE:HG23	2.09	0.53
1:0G:365:ARG:O	1:0G:410:LYS:HE3	2.07	0.53
1:0L:262:PHE:CD1	1:0L:263:PRO:HD2	2.42	0.53
1:0N:15:LYS:HE3	12:Ac:402:GLY:N	2.23	0.53
1:0N:92:LEU:HD11	1:0N:107:LEU:HD11	1.88	0.53
1:0N:210:ALA:O	1:0N:214:LEU:HG	2.08	0.53
1:0O:367:THR:HG21	3:6D:915:TRP:HB2	1.90	0.53
1:0P:233:LEU:HD13	1:0P:252:ILE:HG21	1.89	0.53
1:0R:311:LEU:CG	47:6B:270:VAL:HG21	2.38	0.53
1:0S:202:ALA:O	1:0S:206:VAL:HG23	2.08	0.53
1:0T:225:LEU:O	1:0T:229:VAL:HG22	2.08	0.53
1:0V:14:GLN:O	1:0V:18:VAL:HG13	2.09	0.53
1:0V:128:ASP:O	1:0V:132:THR:HG23	2.07	0.53
1:0X:367:THR:HB	1:0X:370:HIS:CG	2.43	0.53
1:0Z:252:ILE:HA	1:0Z:255:LYS:HE2	1.88	0.53
2:1F:233:LEU:HB3	2:1F:234:PRO:HD3	1.90	0.53
2:1G:78:GLN:HE21	2:1G:119:VAL:HG23	1.72	0.53
2:1G:122:GLY:O	2:1G:126:VAL:HG23	2.08	0.53
3:1H:760:THR:HG22	3:1H:807:CYS:HA	1.90	0.53
3:1I:104:ASN:O	3:1I:107:THR:HG22	2.08	0.53
7:1O:750:ASP:O	7:1O:754:LEU:HG	2.08	0.53
10:1R:414:ASP:CG	13:Bb:327:ASP:OD2	2.51	0.53
10:1S:58:THR:H	13:Ah:339:ARG:HH22	1.47	0.53
10:1S:364:PHE:HB2	12:Bg:340:TYR:CE2	2.42	0.53
12:1a:161:ASP:OD1	12:1a:162:ARG:HG2	2.09	0.53
12:1c:55:THR:HG23	12:2c:282:ARG:O	2.08	0.53
13:1d:255:PHE:O	13:1d:259:LEU:HB2	2.08	0.53
13:1f:255:PHE:O	13:1f:259:LEU:HB2	2.08	0.53
13:1h:255:PHE:O	13:1h:259:LEU:HB2	2.08	0.53
30:3G:627:LEU:HD21	12:7e:406:MET:CA	2.37	0.53
32:3J:334:ALA:HB2	12:9a:258:ILE:HG21	1.88	0.53
34:3M:46:ARG:HE	34:3M:449:GLU:CD	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3N:493:LYS:O	34:3N:497:MET:HG2	2.07	0.53
34:3Q:271:ALA:O	34:3Q:274:ILE:HG12	2.08	0.53
34:3U:69:ALA:O	34:3U:73:VAL:HG23	2.07	0.53
13:3b:248:LEU:HB3	13:3b:354:GLY:HA2	1.89	0.53
13:3h:313:MET:HE2	13:3h:382:THR:HG22	1.90	0.53
34:4A:39:GLU:HA	34:4A:42:LEU:HD12	1.90	0.53
35:4C:526:PRO:HB2	35:4C:782:GLU:HB2	1.89	0.53
37:4E:578:ASP:N	37:4E:578:ASP:CG	2.67	0.53
37:4E:581:LEU:CB	37:4E:581:LEU:C	2.78	0.53
37:4E:589:PRO:CA	43:5L:19:ARG:C	2.81	0.53
37:4E:1296:VAL:HG12	37:4E:1306:VAL:HG13	1.89	0.53
37:4E:1484:ALA:HB2	37:4E:1513:VAL:HG11	1.88	0.53
37:4E:1719:LEU:HD11	37:4E:1752:ALA:HA	1.89	0.53
37:4F:1094:ALA:N	38:4N:36:VAL:CG2	2.50	0.53
37:4H:972:PHE:CD2	37:4H:973:HIS:C	2.86	0.53
37:4H:1082:LEU:CG	38:4M:39:HIS:HB2	2.39	0.53
37:4H:1331:TRP:NE1	38:4M:27:ALA:HB2	2.22	0.53
37:4H:1349:THR:O	37:4H:1350:ILE:HG13	2.08	0.53
38:4K:28:VAL:HG12	38:4K:29:LYS:HG2	1.89	0.53
38:4L:82:TYR:N	38:4L:82:TYR:CD1	2.71	0.53
39:4Q:172:THR:HG22	39:4Q:173:ALA:H	1.73	0.53
39:4Q:181:SER:OG	39:4Q:184:SER:HB2	2.07	0.53
39:4S:181:SER:OG	39:4S:184:SER:HB2	2.07	0.53
40:4U:540:LEU:HD22	40:4U:547:LEU:HD21	1.90	0.53
40:4U:648:SER:HA	40:4U:654:ARG:HD3	1.90	0.53
41:4Y:169:LEU:H	43:5J:152:LEU:C	2.14	0.53
13:4d:313:MET:HE2	13:4d:382:THR:HG22	1.90	0.53
12:4g:232:VAL:HG21	12:4g:300:MET:SD	2.48	0.53
42:5G:89:ALA:O	42:5G:137:TYR:OH	2.26	0.53
42:5H:90:ALA:C	43:5L:45:ASN:ND2	2.57	0.53
42:5H:97:HIS:N	43:5L:44:THR:HB	2.23	0.53
42:5H:137:TYR:CA	43:5L:47:LYS:N	2.70	0.53
42:5H:140:TYR:CB	43:5L:47:LYS:HE2	2.38	0.53
43:5K:60:GLN:O	43:5K:64:THR:HG23	2.08	0.53
12:5a:128:ASP:OD1	12:5a:129:CYS:N	2.33	0.53
12:5c:267:MET:HE1	12:5c:305:PRO:HG3	1.90	0.53
13:5d:207:GLU:OE1	13:5d:304:LYS:NZ	2.30	0.53
13:5f:100:ALA:HB1	12:5g:252:LYS:HA	1.90	0.53
47:6A:189:GLY:HA2	47:6A:192:ARG:NH1	2.23	0.53
47:6B:406:ARG:CZ	3:6D:995:PHE:CD1	2.91	0.53
3:6D:15:GLU:HB3	3:6D:42:LEU:HD21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6D:844:PRO:HB3	3:6D:946:VAL:HG22	1.90	0.53
48:6F:222:SER:HB3	49:6H:463:GLU:OE1	2.08	0.53
50:6K:275:ARG:NH2	50:6K:288:ILE:HG23	2.22	0.53
50:6L:275:ARG:NH2	50:6L:288:ILE:HG23	2.22	0.53
13:6b:248:LEU:HB3	13:6b:354:GLY:HA2	1.89	0.53
13:6f:212:ILE:O	13:6f:216:SER:OG	2.25	0.53
13:6f:313:MET:HE2	13:6f:382:THR:HG22	1.90	0.53
12:6g:151:LEU:O	12:6g:155:ILE:HG12	2.08	0.53
12:6g:232:VAL:HG21	12:6g:300:MET:SD	2.48	0.53
13:6h:248:LEU:HB3	13:6h:354:GLY:HA2	1.89	0.53
13:7f:103:PHE:HD2	13:7f:413:MET:HE1	1.73	0.53
12:8a:64:ILE:HD13	12:8a:120:VAL:HG22	1.89	0.53
13:8b:248:LEU:HB3	13:8b:354:GLY:HA2	1.89	0.53
13:8b:255:PHE:O	13:8b:259:LEU:HB2	2.08	0.53
13:8d:100:ALA:HA	12:8e:252:LYS:HG2	1.90	0.53
13:8f:255:PHE:O	13:8f:259:LEU:HB2	2.08	0.53
13:8h:255:PHE:O	13:8h:259:LEU:HB2	2.08	0.53
13:9f:103:PHE:HD2	13:9f:413:MET:HE1	1.73	0.53
13:9f:313:MET:HE2	13:9f:382:THR:HG22	1.90	0.53
13:9h:103:PHE:HD2	13:9h:413:MET:HE1	1.73	0.53
12:Ae:207:LEU:HB3	12:Ae:225:LEU:HD22	1.90	0.53
13:Bd:207:GLU:OE1	13:Bd:304:LYS:NZ	2.30	0.53
12:Bg:60:VAL:HG11	12:Bg:86:ARG:NH2	2.22	0.53
12:Cc:418:LEU:O	12:Cc:421:GLU:HB2	2.08	0.53
12:Ce:178:THR:HG22	13:Cf:352:LYS:HZ3	1.73	0.53
13:Cf:269:LEU:N	13:Cf:379:SER:O	2.33	0.53
12:Cg:267:MET:HE1	12:Cg:305:PRO:HG3	1.90	0.53
12:Dc:139:LEU:HD12	12:Dc:170:VAL:HG22	1.90	0.53
12:Dc:151:LEU:O	12:Dc:155:ILE:HG12	2.08	0.53
12:Dc:232:VAL:HG21	12:Dc:300:MET:SD	2.48	0.53
12:De:318:ARG:NH1	12:De:358:PRO:HB3	2.23	0.53
13:Dh:313:MET:HE2	13:Dh:382:THR:HG22	1.90	0.53
1:0H:180:GLU:HB3	1:0H:183:LEU:HG	1.90	0.53
1:0H:233:LEU:HD13	1:0H:252:ILE:HG21	1.89	0.53
1:0W:118:ALA:O	1:0W:122:ILE:HG13	2.08	0.53
1:0W:142:LYS:HB2	1:0W:183:LEU:HD11	1.90	0.53
1:0I:3:THR:O	1:0I:7:LEU:HG	2.08	0.53
1:0A:34:ILE:HD13	1:0A:71:TYR:HB2	1.91	0.53
1:0A:131:VAL:HA	1:0A:134:LEU:HD12	1.89	0.53
1:0F:218:VAL:HG12	1:0F:255:LYS:HB3	1.89	0.53
1:0F:326:THR:HG1	52:6Q:1:UNK:C	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0N:105:PHE:HA	1:0N:108:ARG:NE	2.24	0.53
1:0P:85:LEU:HD21	1:0P:121:VAL:HA	1.88	0.53
1:0T:262:PHE:CD1	1:0T:263:PRO:HD2	2.43	0.53
1:0Z:182:SER:O	1:0Z:185:ARG:HG2	2.08	0.53
1:0Z:227:ARG:HD3	1:0Z:266:PHE:HB2	1.89	0.53
1:1B:18:VAL:HA	1:1B:21:VAL:HG22	1.90	0.53
1:1C:270:HIS:O	1:1C:274:VAL:HG23	2.07	0.53
1:1C:411:LEU:HD22	1:1C:417:LEU:CD2	2.38	0.53
2:1D:217:ALA:CB	2:1D:260:ILE:HG22	2.37	0.53
2:1E:217:ALA:CB	2:1E:260:ILE:HG22	2.37	0.53
2:1E:298:ALA:O	2:1E:302:GLN:HG2	2.08	0.53
2:1E:358:VAL:HG13	2:1E:363:VAL:HB	1.91	0.53
4:1J:102:PHE:CZ	47:6A:356:VAL:HG21	2.39	0.53
5:1M:440:LYS:HB3	12:1g:262:ARG:HD3	1.89	0.53
7:1O:2564:THR:HB	7:1O:2594:TYR:CE1	2.43	0.53
10:1R:39:MET:HG3	10:1R:40:HIS:N	2.24	0.53
10:1R:57:LYS:HZ2	13:Ad:339:ARG:HA	1.73	0.53
10:1R:346:ALA:HA	10:1R:349:THR:OG1	2.07	0.53
12:1a:176:SER:OG	12:1a:178:THR:O	2.26	0.53
24:2V:143:SER:HB3	13:Cf:117:LEU:HD21	1.90	0.53
30:3F:638:LEU:HD13	30:3F:642:ARG:CZ	2.39	0.53
34:3X:251:LEU:HD23	34:3X:481:LEU:HD13	1.88	0.53
34:3Y:122:GLN:HB3	34:3Y:368:LEU:HD22	1.90	0.53
34:3Y:473:GLY:O	34:3Y:477:GLU:HG2	2.08	0.53
12:3a:274:THR:HG22	12:3a:282:ARG:HD3	1.90	0.53
13:3d:313:MET:HE2	13:3d:382:THR:HG22	1.90	0.53
13:3f:207:GLU:OE1	13:3f:304:LYS:NZ	2.30	0.53
13:3f:248:LEU:HB3	13:3f:354:GLY:HA2	1.89	0.53
12:3g:110:ALA:HA	12:3g:113:ILE:HG22	1.90	0.53
13:3h:248:LEU:HB3	13:3h:354:GLY:HA2	1.89	0.53
37:4E:518:LEU:HD11	37:4E:678:LEU:HD13	1.91	0.53
37:4E:1131:THR:HB	37:4E:1149:ARG:HB2	1.90	0.53
37:4E:1695:MET:SD	37:4E:1781:LEU:HD13	2.47	0.53
37:4F:514:TYR:HE2	37:4F:538:GLU:CB	2.17	0.53
37:4F:1082:LEU:CA	38:4N:39:HIS:N	2.71	0.53
37:4F:1086:THR:OG1	37:4F:1090:GLN:HB2	2.09	0.53
37:4F:1304:MET:HB2	37:4F:1316:GLN:CG	2.38	0.53
37:4G:431:ALA:HB1	38:4L:83:TYR:CE2	2.42	0.53
37:4G:1316:GLN:HA	37:4G:1322:ARG:CA	2.38	0.53
37:4G:1333:VAL:C	38:4L:24:THR:C	2.77	0.53
37:4G:1334:GLU:CA	38:4L:28:VAL:HA	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:526:ARG:HH22	37:4H:681:GLU:CD	2.15	0.53
37:4H:536:LEU:O	37:4H:539:GLN:HG3	2.07	0.53
37:4H:664:TYR:CE1	38:4J:50:ARG:NH2	2.76	0.53
37:4H:1092:LEU:CA	38:4M:36:VAL:H	2.22	0.53
37:4H:1319:ASP:H	37:4H:1321:THR:CG2	2.20	0.53
38:4L:38:VAL:HA	38:4L:41:LYS:HB2	1.89	0.53
38:4M:68:LEU:CD1	38:4M:80:LEU:HB2	2.31	0.53
39:4R:172:THR:HG22	39:4R:173:ALA:H	1.74	0.53
40:4T:732:HIS:CD2	40:4T:832:LEU:HD21	2.44	0.53
40:4U:213:LEU:CD1	40:4U:221:GLN:HB2	2.38	0.53
40:4U:732:HIS:CD2	40:4U:832:LEU:HD21	2.44	0.53
12:4c:115:SER:HA	12:4c:118:ASP:OD1	2.08	0.53
13:4f:313:MET:HE2	13:4f:382:THR:HG22	1.90	0.53
42:5H:91:TYR:CE2	43:5L:39:LEU:O	2.61	0.53
42:5H:136:HIS:HA	43:5L:51:HIS:N	2.09	0.53
42:5H:138:ARG:CA	43:5L:47:LYS:C	2.80	0.53
43:5J:79:VAL:HG22	43:5J:131:MET:HE1	1.90	0.53
43:5L:34:ALA:HB1	43:5L:42:TYR:CZ	2.44	0.53
13:5b:255:PHE:O	13:5b:259:LEU:HB2	2.08	0.53
13:5b:317:LEU:HB3	13:5b:319:TYR:HE1	1.72	0.53
47:6A:6:ARG:HG2	47:6A:6:ARG:HH11	1.72	0.53
47:6A:81:MET:O	47:6A:86:GLU:OE1	2.26	0.53
47:6A:788:ASP:HB3	47:6A:791:SER:OG	2.08	0.53
47:6A:1902:MET:HG2	47:6A:1911:VAL:HG21	1.89	0.53
47:6B:189:GLY:HA2	47:6B:192:ARG:NH1	2.23	0.53
3:6D:233:THR:HG22	3:6D:274:LEU:HD12	1.90	0.53
48:6F:650:GLU:HB3	48:6F:653:TRP:HD1	1.74	0.53
12:6a:239:CYS:HB3	12:6a:247:ASN:OD1	2.09	0.53
13:6d:248:LEU:HB3	13:6d:354:GLY:HA2	1.89	0.53
13:6d:255:PHE:O	13:6d:259:LEU:HB2	2.08	0.53
13:6h:313:MET:HE2	13:6h:382:THR:HG22	1.90	0.53
12:7a:172:SER:OG	12:7a:175:VAL:O	2.26	0.53
13:7h:212:ILE:O	13:7h:216:SER:OG	2.25	0.53
12:8c:101:TRP:HD1	12:8c:145:SER:HG	1.51	0.53
13:8d:255:PHE:O	13:8d:259:LEU:HB2	2.08	0.53
12:8e:278:SER:HA	12:8e:281:TYR:CB	2.31	0.53
13:8h:103:PHE:HD2	13:8h:413:MET:HE1	1.73	0.53
12:9c:64:ILE:HD13	12:9c:120:VAL:HG22	1.89	0.53
12:Aa:26:ASP:HB2	12:Aa:359:LYS:HZ3	1.72	0.53
13:Ad:255:PHE:O	13:Ad:259:LEU:HB2	2.08	0.53
13:Ah:255:PHE:O	13:Ah:259:LEU:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ba:86:ARG:CD	12:Ca:281:TYR:HB2	2.37	0.53
12:Be:318:ARG:NH1	12:Be:358:PRO:HB3	2.23	0.53
13:Bf:255:PHE:O	13:Bf:259:LEU:HB2	2.08	0.53
13:Cb:103:PHE:HD2	13:Cb:413:MET:HE1	1.73	0.53
13:Dd:313:MET:HE2	13:Dd:382:THR:HG22	1.90	0.53
13:Df:255:PHE:O	13:Df:259:LEU:HB2	2.08	0.53
1:0I:259:CYS:SG	1:0I:267:VAL:HB	2.47	0.53
1:0A:137:PHE:HD1	4:1J:120:ARG:HD2	1.74	0.53
1:0A:358:TRP:CD1	1:0A:362:GLN:HE22	2.26	0.53
1:0B:202:ALA:O	1:0B:206:VAL:HG23	2.08	0.53
1:0B:245:GLU:HA	1:0B:248:VAL:HG22	1.91	0.53
1:0C:233:LEU:HD13	1:0C:252:ILE:HG21	1.91	0.53
1:0C:361:GLY:HA2	1:0C:403:ALA:HA	1.91	0.53
1:0F:87:GLN:HA	1:0F:90:TYR:HD2	1.73	0.53
1:0G:118:ALA:O	1:0G:122:ILE:HG13	2.08	0.53
1:0L:320:ILE:HG22	1:0L:327:LEU:HB3	1.90	0.53
1:0N:350:ASP:CA	1:0N:353:LYS:HG3	2.32	0.53
1:0Q:159:LEU:O	1:0Q:163:VAL:HG23	2.08	0.53
1:0Q:248:VAL:CG1	1:0Q:278:VAL:HG21	2.39	0.53
1:0S:133:CYS:HB3	1:0S:141:VAL:HG12	1.89	0.53
1:0U:196:LYS:HA	1:0U:239:HIS:HE1	1.72	0.53
1:0V:262:PHE:CE2	1:0V:264:ASP:HB3	2.42	0.53
1:0Y:326:THR:HA	1:0Y:329:LEU:HD12	1.90	0.53
1:1A:341:VAL:HG22	1:1A:379:CYS:SG	2.47	0.53
1:1B:196:LYS:HB3	1:1B:235:GLN:HG3	1.89	0.53
2:1E:310:LEU:O	2:1E:314:VAL:HG13	2.08	0.53
2:1F:64:THR:HA	2:1F:88:LEU:HD13	1.91	0.53
4:1K:25:LYS:HB2	13:Bd:415:GLU:HB3	1.87	0.53
6:1N:187:TRP:CZ3	8:1P:756:LEU:HD12	2.43	0.53
7:1O:277:GLY:O	7:1O:280:VAL:HG22	2.08	0.53
7:1O:1728:PRO:HB2	44:5V:17:LYS:HD3	1.90	0.53
10:1R:248:VAL:HG12	10:1R:255:LEU:HD22	1.91	0.53
10:1S:388:VAL:CG1	13:Bf:299:ALA:HB2	2.38	0.53
13:1b:255:PHE:O	13:1b:259:LEU:HB2	2.08	0.53
12:1c:151:LEU:O	12:1c:155:ILE:HG12	2.09	0.53
12:1e:207:LEU:HB3	12:1e:225:LEU:HD22	1.90	0.53
12:1g:116:VAL:O	12:1g:120:VAL:HG13	2.07	0.53
12:1g:171:PRO:HB3	12:1g:181:GLU:CG	2.39	0.53
13:1h:226:ASN:CG	14:2G:30:ASN:HD21	2.17	0.53
24:2V:176:LYS:O	24:2V:179:GLU:HG3	2.08	0.53
13:2f:248:LEU:HB3	13:2f:354:GLY:HA2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:3C:554:ARG:HG3	12:3g:106:TYR:CE1	2.44	0.53
29:3E:1150:TYR:CD2	12:5e:409:THR:HG22	2.43	0.53
34:3M:38:HIS:CE1	34:3M:452:HIS:HE1	2.26	0.53
34:3N:219:ILE:HD12	34:3N:222:LEU:HD13	1.91	0.53
34:3P:93:VAL:HG13	34:3P:397:LEU:HD22	1.89	0.53
34:3S:38:HIS:CE1	34:3S:452:HIS:HE1	2.26	0.53
34:3V:39:GLU:HA	34:3V:42:LEU:HD12	1.91	0.53
34:3W:325:ASP:O	34:3W:329:THR:HG23	2.08	0.53
34:3Z:89:ILE:HD11	34:3Z:327:VAL:HG23	1.90	0.53
34:4B:463:HIS:O	34:4B:467:LEU:HD23	2.09	0.53
35:4C:825:VAL:HG12	35:4C:874:VAL:HG12	1.89	0.53
35:4C:928:TRP:CE3	35:4C:1063:LEU:HG	2.43	0.53
37:4F:853:VAL:CG1	37:4F:854:TYR:N	2.72	0.53
37:4F:1313:VAL:O	37:4F:1324:THR:HA	2.08	0.53
37:4F:1723:TYR:HE1	37:4F:1736:ARG:HD3	1.73	0.53
37:4G:1082:LEU:HD21	38:4L:36:VAL:CG2	2.39	0.53
37:4G:1094:ALA:HB1	37:4G:1095:PRO:HG2	1.90	0.53
37:4G:1094:ALA:HB1	37:4G:1095:PRO:O	2.08	0.53
37:4G:1161:SER:HA	37:4G:1188:ALA:HA	1.89	0.53
37:4G:1723:TYR:HE1	37:4G:1736:ARG:HD3	1.73	0.53
37:4H:1082:LEU:CD1	38:4M:39:HIS:HB2	2.38	0.53
37:4H:1283:GLY:O	37:4H:1300:GLU:HB2	2.09	0.53
37:4H:1350:ILE:CG1	38:4M:31:ALA:HB2	2.32	0.53
37:4H:1719:LEU:HD12	37:4H:1741:VAL:HG21	1.89	0.53
39:4S:172:THR:HG22	39:4S:173:ALA:H	1.74	0.53
41:4X:145:GLY:O	41:4X:161:PHE:N	2.36	0.53
12:4a:111:GLU:OE2	12:4a:112:LEU:HD23	2.08	0.53
41:5C:145:GLY:O	41:5C:161:PHE:CB	2.57	0.53
42:5H:91:TYR:CB	43:5L:41:ASP:HB2	2.23	0.53
42:5H:158:MET:CG	43:5L:158:HIS:CD2	2.90	0.53
43:5J:60:GLN:O	43:5J:64:THR:HG23	2.08	0.53
12:5a:271:THR:HG22	12:5a:365:ALA:O	2.09	0.53
47:6A:952:ARG:NH1	47:6A:1036:SER:HB3	2.22	0.53
47:6A:1337:LEU:HD23	47:6A:1338:LEU:N	2.24	0.53
47:6B:65:PRO:CB	47:6B:129:ARG:HH11	2.16	0.53
47:6B:1337:LEU:HD23	47:6B:1338:LEU:N	2.24	0.53
3:6D:945:ILE:O	3:6D:949:LYS:HG3	2.08	0.53
48:6F:884:LEU:CD1	48:6F:886:VAL:HG23	2.39	0.53
50:6K:293:LEU:HD12	50:6K:293:LEU:H	1.72	0.53
50:6K:431:GLU:N	50:6K:431:GLU:OE1	2.42	0.53
50:6L:154:PHE:CE2	50:6L:158:GLN:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6M:2277:PRO:HB2	51:6M:2278:GLU:OE2	2.09	0.53
13:6b:207:GLU:OE1	13:6b:304:LYS:NZ	2.30	0.53
13:6b:255:PHE:O	13:6b:259:LEU:HB2	2.08	0.53
13:6d:313:MET:HE2	13:6d:382:THR:HG22	1.90	0.53
13:6f:222:PRO:O	12:6g:324:LYS:HB3	2.08	0.53
13:6h:212:ILE:O	13:6h:216:SER:OG	2.25	0.53
13:6h:255:PHE:O	13:6h:259:LEU:HB2	2.08	0.53
12:7a:330:MET:SD	12:7a:349:VAL:HG21	2.48	0.53
13:7b:103:PHE:HD2	13:7b:413:MET:HE1	1.73	0.53
12:7c:115:SER:HA	12:7c:118:ASP:OD2	2.08	0.53
12:8g:151:LEU:O	12:8g:155:ILE:HG12	2.07	0.53
12:8g:246:LEU:HB3	12:8g:353:VAL:HG12	1.89	0.53
12:9c:179:VAL:HG23	12:9c:180:VAL:HG13	1.90	0.53
13:9h:255:PHE:O	13:9h:259:LEU:HB2	2.08	0.53
13:9h:269:LEU:N	13:9h:379:SER:O	2.33	0.53
12:Ae:222:PHE:HE2	13:Af:248:LEU:HG	1.73	0.53
12:Ba:101:TRP:HD1	12:Ba:145:SER:OG	1.90	0.53
13:Bd:255:PHE:O	13:Bd:259:LEU:HB2	2.08	0.53
12:Ca:99:ASN:HA	12:Ca:142:GLY:H	1.73	0.53
13:Cb:313:MET:HE2	13:Cb:382:THR:HG22	1.90	0.53
13:Cd:313:MET:HE2	13:Cd:382:THR:HG22	1.90	0.53
12:Ce:318:ARG:NH1	12:Ce:358:PRO:HB3	2.23	0.53
12:Da:101:TRP:HD1	12:Da:145:SER:OG	1.89	0.53
13:Df:313:MET:HE2	13:Df:382:THR:HG22	1.90	0.53
1:0H:27:MET:SD	1:0I:6:VAL:HG22	2.49	0.53
1:0I:346:GLU:HG3	1:0I:347:GLU:OE1	2.09	0.53
1:0D:33:ASN:O	1:0D:37:LEU:HG	2.09	0.53
1:0E:227:ARG:HG3	1:0E:267:VAL:HG22	1.90	0.53
1:0G:122:ILE:HG21	1:0G:162:GLN:NE2	2.22	0.53
1:0N:45:LEU:HD12	1:0O:10:PHE:CE1	2.44	0.53
1:0Q:265:GLU:HA	1:0Q:268:LYS:HE2	1.91	0.53
1:0R:319:TYR:O	47:6B:277:PHE:CZ	2.62	0.53
1:0S:67:ARG:HA	1:0S:70:ASN:ND2	2.23	0.53
1:0S:320:ILE:HB	1:0S:327:LEU:HD13	1.91	0.53
1:0V:47:ARG:HG3	1:0V:84:ILE:HG12	1.90	0.53
1:0V:395:ASP:O	1:0V:399:LYS:HG2	2.08	0.53
1:0X:127:LEU:HB3	1:0X:166:ALA:HB2	1.90	0.53
1:0Y:87:GLN:HA	1:0Y:90:TYR:HD2	1.73	0.53
1:0Z:361:GLY:HA2	1:0Z:403:ALA:HA	1.91	0.53
1:1B:193:ASP:O	1:1B:197:HIS:HD2	1.92	0.53
1:1C:218:VAL:CG1	1:1C:255:LYS:HB3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:219:ILE:HG12	1:1C:255:LYS:HG2	1.90	0.53
5:1M:453:VAL:H	5:1M:459:GLN:NE2	2.06	0.53
6:1N:706:VAL:HG13	6:1N:732:LEU:CD2	2.38	0.53
6:1N:2033:LEU:HD21	9:1Q:411:CYS:HA	1.89	0.53
7:1O:1368:GLY:C	7:1O:1370:PRO:HD3	2.33	0.53
7:1O:2108:PHE:CZ	7:1O:2121:ARG:HG2	2.43	0.53
7:1O:2603:ARG:O	7:1O:2607:VAL:HG23	2.08	0.53
7:1O:2677:ARG:HB3	7:1O:3048:ALA:HB2	1.89	0.53
12:2a:206:ALA:O	12:2a:210:ILE:HG23	2.09	0.53
13:2b:255:PHE:O	13:2b:259:LEU:HB2	2.08	0.53
13:2d:313:MET:HE2	13:2d:382:THR:HG22	1.90	0.53
13:2f:255:PHE:O	13:2f:259:LEU:HB2	2.08	0.53
30:3F:484:GLU:CD	13:7b:112:LYS:NZ	2.63	0.53
30:3F:547:LEU:O	30:3F:551:LEU:HG	2.07	0.53
30:3G:718:LYS:O	30:3G:722:MET:HG2	2.08	0.53
30:3G:725:TYR:CE2	13:6b:156:ARG:NH1	2.75	0.53
33:3L:181:PRO:HB2	33:3L:187:TRP:HH2	1.74	0.53
34:3M:203:ALA:HA	34:3M:206:GLN:NE2	2.24	0.53
34:3S:83:GLU:HB2	34:3U:40:ASN:ND2	2.23	0.53
34:3U:71:LEU:O	34:3U:75:GLN:HG3	2.08	0.53
12:3a:117:LEU:HA	12:3a:120:VAL:HG12	1.91	0.53
13:3d:248:LEU:HB3	13:3d:354:GLY:HA2	1.89	0.53
13:3h:197:HIS:O	39:4Q:174:ALA:HB2	2.07	0.53
35:4C:808:GLY:HA3	35:4C:856:ARG:HG2	1.91	0.53
36:4D:136:GLU:O	36:4D:139:ARG:HG2	2.07	0.53
37:4F:1093:VAL:CG1	37:4F:1137:ALA:HA	2.39	0.53
37:4G:970:SER:HB2	37:4G:1074:GLN:CD	2.32	0.53
37:4G:974:VAL:O	37:4G:976:ASP:N	2.40	0.53
37:4G:1093:VAL:HG11	38:4L:32:GLU:C	2.33	0.53
37:4H:974:VAL:O	37:4H:976:ASP:N	2.41	0.53
37:4H:1138:VAL:O	37:4H:1142:GLY:C	2.50	0.53
38:4I:36:VAL:O	38:4I:36:VAL:HG23	2.07	0.53
38:4J:77:VAL:HG22	38:4M:61:LEU:CD2	2.36	0.53
38:4K:75:ASN:C	38:4K:77:VAL:N	2.66	0.53
40:4T:648:SER:HA	40:4T:654:ARG:HD3	1.90	0.53
40:4V:309:LEU:HD11	40:4V:325:VAL:HG21	1.91	0.53
40:4V:732:HIS:CD2	40:4V:832:LEU:HD21	2.44	0.53
13:4b:255:PHE:O	13:4b:259:LEU:HB2	2.08	0.53
12:4c:111:GLU:OE2	12:4c:112:LEU:HG	2.09	0.53
41:5A:143:MET:C	41:5A:145:GLY:N	2.64	0.53
41:5B:145:GLY:O	41:5B:161:PHE:CB	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5F:139:LEU:HD21	43:5J:50:ILE:HD12	1.89	0.53
42:5H:82:LEU:HD12	42:5H:85:CYS:HG	1.72	0.53
42:5H:91:TYR:CE1	43:5L:48:THR:C	2.87	0.53
13:5h:317:LEU:HB3	13:5h:319:TYR:HE1	1.72	0.53
13:5h:342:GLN:NE2	13:5h:343:PHE:O	2.40	0.53
3:6D:52:ILE:HA	3:6D:55:LEU:HG	1.89	0.53
48:6E:650:GLU:HB3	48:6E:653:TRP:HD1	1.74	0.53
49:6H:439:THR:O	49:6H:447:ARG:HG3	2.09	0.53
49:6I:140:ASP:OD1	49:6I:141:GLY:N	2.42	0.53
49:6J:140:ASP:OD1	49:6J:141:GLY:N	2.42	0.53
49:6J:439:THR:O	49:6J:447:ARG:HG3	2.09	0.53
50:6K:154:PHE:CE2	50:6K:158:GLN:HB2	2.44	0.53
50:6K:202:LEU:HD12	50:6K:327:LEU:HD21	1.91	0.53
50:6L:431:GLU:N	50:6L:431:GLU:OE1	2.42	0.53
51:6M:2137:ASP:OD2	51:6M:2300:VAL:HG11	2.09	0.53
51:6N:2137:ASP:OD2	51:6N:2300:VAL:HG11	2.09	0.53
51:6N:2193:THR:OG1	51:6N:2197:TYR:OH	2.22	0.53
51:6N:2277:PRO:HB2	51:6N:2278:GLU:OE2	2.09	0.53
12:6c:55:THR:HG23	12:7c:282:ARG:O	2.08	0.53
12:6e:64:ILE:HD13	12:6e:120:VAL:HG22	1.89	0.53
13:6f:248:LEU:HB3	13:6f:354:GLY:HA2	1.89	0.53
13:6f:255:PHE:O	13:6f:259:LEU:HB2	2.08	0.53
12:7g:134:GLN:HA	12:7g:165:LEU:O	2.08	0.53
12:8c:66:MET:HA	12:8c:91:VAL:HG23	1.90	0.53
13:9d:255:PHE:O	13:9d:259:LEU:HB2	2.08	0.53
13:Ab:248:LEU:HB3	13:Ab:354:GLY:HA2	1.89	0.53
12:Ac:73:MET:HE2	12:Ac:90:PHE:HD2	1.74	0.53
13:Af:248:LEU:HB3	13:Af:354:GLY:HA2	1.89	0.53
12:Ba:207:LEU:HB3	12:Ba:225:LEU:HD22	1.90	0.53
13:Bb:255:PHE:O	13:Bb:259:LEU:HB2	2.08	0.53
13:Bh:207:GLU:OE1	13:Bh:304:LYS:NZ	2.30	0.53
13:Cb:248:LEU:HB3	13:Cb:354:GLY:HA2	1.89	0.53
12:Cc:172:SER:OG	12:Cc:205:GLU:OE1	2.22	0.53
12:Ce:64:ILE:HD13	12:Ce:120:VAL:HG22	1.90	0.53
12:Dg:232:VAL:HG21	12:Dg:300:MET:SD	2.49	0.53
1:0I:143:GLU:HG3	1:0I:186:ILE:HG13	1.91	0.53
1:0I:411:LEU:HG	1:0I:412:THR:O	2.08	0.53
1:0K:185:ARG:HH11	1:0K:224:LYS:HD3	1.73	0.53
1:0A:47:ARG:HH22	47:6B:117:LEU:HB3	1.72	0.53
1:0A:218:VAL:HG12	1:0A:255:LYS:HB3	1.90	0.53
1:0C:92:LEU:HB3	1:0C:133:CYS:SG	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0C:227:ARG:HD3	1:0C:266:PHE:HB2	1.89	0.53
1:0M:44:ALA:O	1:0M:48:PRO:HD3	2.09	0.53
1:0M:168:ALA:O	1:0M:172:LEU:HG	2.08	0.53
1:0N:265:GLU:HA	1:0N:268:LYS:HE2	1.91	0.53
1:0P:262:PHE:CD1	1:0P:263:PRO:HD2	2.44	0.53
1:0P:367:THR:HB	1:0P:370:HIS:CG	2.44	0.53
1:0Q:346:GLU:HG3	1:0Q:347:GLU:OE1	2.08	0.53
1:0Q:380:LEU:C	1:0Q:423:ARG:HH22	2.16	0.53
1:0T:202:ALA:O	1:0T:206:VAL:HG23	2.09	0.53
1:0U:412:THR:OG1	1:0U:413:HIS:N	2.41	0.53
1:0X:147:TRP:HE1	1:0X:186:ILE:CD1	2.21	0.53
1:0Y:196:LYS:HA	1:0Y:239:HIS:HE1	1.74	0.53
1:0Y:275:VAL:HG13	1:0Y:289:VAL:HG11	1.89	0.53
1:1A:186:ILE:HD13	5:1L:588:ARG:CZ	2.38	0.53
2:1D:124:ASN:O	2:1D:168:ASN:ND2	2.37	0.53
2:1G:222:GLU:HB3	2:1G:223:MET:HE2	1.90	0.53
3:1H:178:ALA:HA	3:1H:181:ILE:HD12	1.91	0.53
3:1H:1005:PRO:HA	47:6A:406:ARG:CA	2.38	0.53
3:1I:890:ARG:HB3	3:1I:892:ILE:HG13	1.90	0.53
3:1I:916:LEU:HD22	3:1I:921:VAL:HG22	1.90	0.53
4:1J:120:ARG:HH21	4:1J:147:LYS:HE3	1.74	0.53
4:1J:194:LEU:HB3	4:1J:196:PHE:CD2	2.40	0.53
4:1K:120:ARG:HH21	4:1K:147:LYS:HE3	1.74	0.53
6:1N:381:TRP:O	6:1N:385:THR:HG23	2.08	0.53
6:1N:1988:PHE:CZ	6:1N:2004:ILE:HG21	2.43	0.53
7:1O:1989:PHE:HB2	7:1O:2026:PHE:CE2	2.44	0.53
7:1O:2870:LEU:HA	7:1O:2874:SER:OG	2.07	0.53
10:1S:75:LEU:HG	10:1S:76:VAL:N	2.23	0.53
10:1S:423:PRO:CB	12:Be:216:LYS:HD3	2.38	0.53
12:1a:396:HIS:CD2	13:1b:263:PRO:HD3	2.43	0.53
14:2G:111:VAL:HG13	14:2G:112:GLY:H	1.73	0.53
24:2U:132:ARG:HH22	24:2U:151:PHE:HZ	1.56	0.53
13:2b:313:MET:HE2	13:2b:382:THR:HG22	1.90	0.53
13:2h:255:PHE:O	13:2h:259:LEU:HB2	2.08	0.53
30:3F:529:PRO:HB2	30:3F:545:VAL:HG22	1.89	0.53
32:3J:191:VAL:HG22	32:3J:208:MET:HG2	1.90	0.53
34:3M:39:GLU:OE1	34:3M:42:LEU:HD12	2.09	0.53
34:3R:100:ILE:O	34:3R:103:LEU:HG	2.08	0.53
34:3S:76:GLU:OE1	34:3U:47:ASN:HB2	2.09	0.53
34:3S:78:HIS:HA	34:3S:81:GLU:OE2	2.08	0.53
34:3T:349:LEU:HD23	34:3T:382:LEU:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3V:485:TYR:CE1	34:3X:251:LEU:HD11	2.43	0.53
34:3W:352:LEU:HB3	34:3W:356:PHE:HE1	1.74	0.53
34:3Y:488:ARG:HH21	34:4A:252:GLU:CD	2.16	0.53
13:3b:313:MET:HE2	13:3b:382:THR:HG22	1.90	0.53
13:3f:313:MET:HE2	13:3f:382:THR:HG22	1.90	0.53
34:4A:42:LEU:HD23	34:4A:280:TRP:CE2	2.43	0.53
34:4B:325:ASP:O	34:4B:329:THR:HG23	2.08	0.53
34:4B:498:LEU:O	34:4B:502:VAL:HG23	2.09	0.53
35:4C:395:LEU:HD12	35:4C:396:THR:N	2.24	0.53
35:4C:878:PRO:HG3	37:4E:1769:ALA:HB1	1.90	0.53
37:4E:1092:LEU:HD12	37:4E:1093:VAL:H	1.73	0.53
37:4E:1287:LEU:O	37:4E:1296:VAL:HG22	2.09	0.53
37:4F:536:LEU:O	37:4F:540:VAL:HG23	2.08	0.53
37:4F:544:MET:HE1	38:4N:70:LYS:O	2.08	0.53
37:4F:1094:ALA:N	37:4F:1135:PHE:HA	2.22	0.53
37:4G:590:LYS:HG2	37:4G:591:PRO:HD2	1.91	0.53
37:4G:1082:LEU:CG	38:4L:36:VAL:CA	2.85	0.53
37:4G:1132:PRO:HG2	38:4L:36:VAL:CG2	2.38	0.53
37:4H:784:LEU:O	37:4H:788:LEU:HD12	2.08	0.53
37:4H:1083:ILE:HA	38:4M:35:ALA:HB2	1.86	0.53
38:4J:65:MET:O	38:4J:69:CYS:CB	2.50	0.53
38:4K:38:VAL:C	38:4K:41:LYS:H	2.15	0.53
38:4K:61:LEU:HB3	38:4K:84:LEU:HD21	1.91	0.53
38:4M:75:ASN:C	38:4M:77:VAL:N	2.66	0.53
39:4S:63:ILE:HD11	44:5R:92:ALA:C	2.34	0.53
40:4T:309:LEU:HD11	40:4T:325:VAL:HG21	1.91	0.53
40:4T:540:LEU:HD22	40:4T:547:LEU:HD21	1.90	0.53
12:4a:131:GLN:NE2	12:4a:250:LEU:HB2	2.23	0.53
12:4a:171:PRO:HG3	12:4a:181:GLU:HG2	1.90	0.53
42:5H:139:LEU:CG	43:5L:145:SER:C	2.82	0.53
12:5a:216:LYS:HB2	12:5a:275:SER:OG	2.08	0.53
12:5e:206:ALA:O	12:5e:210:ILE:HG23	2.08	0.53
13:5f:177:VAL:HB	12:5g:331:LEU:HD22	1.91	0.53
13:5f:317:LEU:HB3	13:5f:319:TYR:HE1	1.72	0.53
12:5g:232:VAL:HG21	12:5g:300:MET:SD	2.48	0.53
47:6A:1394:PRO:HD3	47:6A:1441:LEU:HD11	1.90	0.53
47:6B:9:LEU:HD11	47:6B:94:LEU:HD13	1.90	0.53
47:6B:205:ARG:NH2	12:Bg:403:MET:CG	2.70	0.53
47:6B:291:GLN:HB2	3:6D:209:GLU:OE1	2.07	0.53
47:6B:850:ARG:HB3	47:6B:852:TYR:CE1	2.44	0.53
47:6B:1394:PRO:HD3	47:6B:1441:LEU:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:1902:MET:HG2	47:6B:1911:VAL:HG21	1.89	0.53
3:6D:73:SER:HB2	3:6D:76:PHE:HB2	1.90	0.53
48:6F:643:ILE:HD11	48:6F:654:GLN:O	2.08	0.53
49:6G:439:THR:O	49:6G:447:ARG:HG3	2.09	0.53
49:6I:439:THR:O	49:6I:447:ARG:HG3	2.09	0.53
50:6L:151:PRO:HB3	50:6L:212:ASP:OD2	2.09	0.53
50:6L:206:LEU:HG	50:6L:346:SER:HB2	1.91	0.53
51:6M:2276:LEU:O	51:6M:2277:PRO:C	2.51	0.53
51:6N:1251:LYS:NZ	51:6N:1323:ASP:HB3	2.24	0.53
51:6N:1710:LEU:O	51:6N:1714:LEU:HG	2.08	0.53
13:6b:313:MET:HE2	13:6b:382:THR:HG22	1.90	0.53
12:6e:278:SER:HA	12:6e:281:TYR:HB2	1.90	0.53
13:7d:96:LYS:HA	12:7e:1:MET:HE1	1.90	0.53
12:7e:309:ARG:HH22	12:7e:343:GLU:CD	2.13	0.53
12:7g:151:LEU:O	12:7g:155:ILE:HG12	2.09	0.53
13:8b:207:GLU:OE1	13:8b:304:LYS:NZ	2.30	0.53
12:8e:113:ILE:HA	12:8e:116:VAL:CG2	2.37	0.53
12:9a:86:ARG:HH11	12:Aa:281:TYR:HB2	1.73	0.53
13:9d:96:LYS:HA	12:9e:1:MET:HE1	1.91	0.53
12:9e:6:HIS:HD2	12:9e:134:GLN:HG3	1.73	0.53
13:9f:255:PHE:O	13:9f:259:LEU:HB2	2.08	0.53
12:Ag:171:PRO:HB3	12:Ag:181:GLU:CG	2.39	0.53
13:Bd:313:MET:HE2	13:Bd:382:THR:HG22	1.90	0.53
12:Bg:332:ASN:ND2	12:Bg:336:LYS:HD2	2.24	0.53
13:Cd:269:LEU:N	13:Cd:379:SER:O	2.33	0.53
12:Cg:60:VAL:HG21	12:Cg:86:ARG:HH21	1.73	0.53
13:Db:313:MET:HE2	13:Db:382:THR:HG22	1.90	0.53
1:0H:108:ARG:HH12	1:0H:144:ALA:HB1	1.74	0.53
1:0J:75:LEU:O	1:0J:79:VAL:HG23	2.08	0.53
1:0I:108:ARG:HB2	1:0I:148:THR:HG22	1.90	0.53
1:0A:147:TRP:HE1	1:0A:186:ILE:CD1	2.21	0.53
1:0D:168:ALA:H	1:0D:171:LEU:HD12	1.74	0.53
1:0E:233:LEU:HD13	1:0E:252:ILE:HG21	1.91	0.53
1:0N:93:SER:HB2	31:3H:166:ARG:NH1	2.23	0.53
1:0N:129:SER:HA	31:3H:163:GLU:CD	2.34	0.53
1:0P:175:CYS:HB2	1:0P:187:ALA:HB2	1.91	0.53
1:0P:299:VAL:HG13	1:0P:336:ALA:HA	1.90	0.53
1:0Q:143:GLU:HG3	1:0Q:186:ILE:HG13	1.91	0.53
1:0X:127:LEU:O	1:0X:131:VAL:HG13	2.08	0.53
1:0Y:4:ARG:CZ	13:Bb:423:GLU:HB3	2.39	0.53
1:0Y:248:VAL:HG11	1:0Y:285:LEU:HD22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Z:34:ILE:HD13	1:0Z:71:TYR:HB2	1.89	0.53
1:1A:262:PHE:CD1	1:1A:263:PRO:HD2	2.44	0.53
1:1B:358:TRP:HB2	1:1B:399:LYS:HD2	1.91	0.53
1:1C:185:ARG:HH11	1:1C:224:LYS:HD3	1.74	0.53
2:1E:55:ALA:HB2	2:1G:17:THR:HG22	1.90	0.53
2:1F:222:GLU:HB3	2:1F:223:MET:HE2	1.90	0.53
2:1F:400:THR:HG22	2:1F:405:ALA:CB	2.38	0.53
3:1H:104:ASN:OD1	3:1H:105:HIS:CD2	2.61	0.53
3:1H:924:GLY:N	4:1J:249:THR:OG1	2.41	0.53
5:1L:453:VAL:H	5:1L:459:GLN:NE2	2.06	0.53
5:1M:564:ARG:HD2	5:1M:564:ARG:N	2.23	0.53
7:1O:1493:LYS:HG3	44:5V:152:GLY:HA2	1.89	0.53
7:1O:1766:ALA:HB3	8:1P:837:ARG:HG3	1.90	0.53
12:1a:179:VAL:HG13	12:1a:180:VAL:HG13	1.90	0.53
12:1c:337:ASN:HB3	12:1c:340:TYR:HD2	1.74	0.53
13:1d:103:PHE:HD2	13:1d:413:MET:HE1	1.73	0.53
12:1g:114:ASP:OD1	12:1g:115:SER:N	2.40	0.53
13:2d:103:PHE:HD2	13:2d:413:MET:HE1	1.73	0.53
13:2h:313:MET:HE2	13:2h:382:THR:HG22	1.90	0.53
30:3F:376:ALA:N	13:8f:309:HIS:HD2	2.07	0.53
33:3L:197:LEU:CD2	12:7e:390:ARG:HG3	2.38	0.53
34:3N:91:GLU:HG3	34:3N:95:ARG:HH21	1.73	0.53
34:3O:37:ASN:O	34:3O:41:THR:HG23	2.08	0.53
34:3P:86:GLN:OE1	34:3P:408:ARG:HD2	2.08	0.53
34:3P:96:HIS:O	34:3P:100:ILE:HG13	2.08	0.53
34:3S:199:ASP:N	34:3S:199:ASP:OD2	2.42	0.53
34:3S:258:TYR:HB2	34:3S:474:TRP:HD1	1.73	0.53
34:3V:308:GLU:HG2	34:3V:422:HIS:HE1	1.73	0.53
12:3g:232:VAL:HG21	12:3g:300:MET:SD	2.49	0.53
13:3h:207:GLU:OE1	13:3h:304:LYS:NZ	2.30	0.53
37:4E:574:LEU:O	37:4E:577:LEU:C	2.51	0.53
37:4F:853:VAL:HG12	37:4F:854:TYR:N	2.23	0.53
37:4F:1082:LEU:CA	38:4N:38:VAL:CB	2.76	0.53
37:4F:1082:LEU:N	38:4N:39:HIS:HB2	2.16	0.53
37:4F:1288:THR:HG22	37:4F:1295:ARG:HD2	1.91	0.53
37:4F:1333:VAL:CA	38:4N:27:ALA:N	2.67	0.53
37:4H:429:TYR:HB3	37:4H:433:LYS:CE	2.39	0.53
38:4I:27:ALA:C	38:4I:30:ALA:H	2.17	0.53
38:4I:65:MET:O	38:4I:69:CYS:CB	2.50	0.53
38:4I:75:ASN:C	38:4I:77:VAL:N	2.66	0.53
39:4Q:42:SER:HB3	44:5S:48:THR:HG22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:4U:309:LEU:HD11	40:4U:325:VAL:HG21	1.91	0.53
12:4a:286:VAL:O	12:4a:290:THR:HG23	2.09	0.53
13:4d:255:PHE:O	13:4d:259:LEU:HB2	2.08	0.53
13:4h:255:PHE:O	13:4h:259:LEU:HB2	2.08	0.53
42:5H:137:TYR:H	43:5L:49:ALA:C	2.09	0.53
43:5I:165:LEU:HG	43:5I:166:ALA:N	2.21	0.53
43:5K:34:ALA:HB1	43:5K:42:TYR:CZ	2.44	0.53
46:5Z:90:HIS:O	46:5Z:94:VAL:HG23	2.09	0.53
12:5a:7:ILE:HB	12:5a:135:VAL:HG12	1.90	0.53
12:5a:389:PHE:CD1	12:5a:395:LEU:HD11	2.44	0.53
13:5b:401:LYS:CE	12:5c:430:ALA:HA	2.38	0.53
12:5e:64:ILE:HD13	12:5e:120:VAL:HG12	1.91	0.53
47:6A:9:LEU:HD11	47:6A:94:LEU:HD13	1.89	0.53
47:6A:850:ARG:HB3	47:6A:852:TYR:CE1	2.44	0.53
47:6A:1214:LYS:O	47:6A:1218:VAL:HG23	2.08	0.53
47:6B:291:GLN:HA	3:6D:206:ASP:HB2	1.90	0.53
47:6B:406:ARG:HB2	3:6D:1005:PRO:HD3	1.90	0.53
48:6E:484:LEU:HA	48:6E:614:VAL:HG21	1.91	0.53
50:6K:206:LEU:HG	50:6K:346:SER:HB2	1.91	0.53
50:6L:293:LEU:HD12	50:6L:293:LEU:H	1.72	0.53
51:6M:1251:LYS:NZ	51:6M:1323:ASP:HB3	2.24	0.53
12:7e:64:ILE:HD13	12:7e:120:VAL:HG22	1.90	0.53
12:7g:232:VAL:HG21	12:7g:300:MET:SD	2.49	0.53
13:7h:313:MET:HE2	13:7h:382:THR:HG22	1.90	0.53
12:9a:2:ARG:HB2	12:9a:240:LEU:HD12	1.89	0.53
12:9a:318:ARG:NH1	12:9a:358:PRO:HB3	2.23	0.53
12:9e:16:ILE:HD11	12:9e:229:ILE:HG21	1.90	0.53
12:9e:172:SER:OG	12:9e:175:VAL:O	2.26	0.53
12:9e:174:LYS:NZ	13:9f:333:ALA:HA	2.24	0.53
12:9e:207:LEU:HD21	12:9e:229:ILE:HD11	1.90	0.53
12:9g:237:THR:HG23	12:9g:240:LEU:HD12	1.90	0.53
12:Bc:171:PRO:HB3	12:Bc:181:GLU:CG	2.38	0.53
13:Bd:177:VAL:HG22	12:Be:327:ASP:HB3	1.90	0.53
12:Ca:64:ILE:HD13	12:Ca:120:VAL:HG22	1.90	0.53
12:Ca:172:SER:HB3	12:Ca:205:GLU:CD	2.33	0.53
13:Cd:248:LEU:HB3	13:Cd:354:GLY:HA2	1.89	0.53
12:Cg:151:LEU:O	12:Cg:155:ILE:HG12	2.08	0.53
12:Da:274:THR:HG22	12:Da:282:ARG:HD3	1.89	0.53
12:Da:318:ARG:NH1	12:Da:358:PRO:HB3	2.24	0.53
12:Da:392:LYS:HB3	12:Da:395:LEU:HD23	1.90	0.53
12:De:396:HIS:CD2	13:Df:263:PRO:HD3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Dh:255:PHE:O	13:Dh:259:LEU:HB2	2.08	0.53
1:0H:27:MET:O	1:0H:33:ASN:HB2	2.09	0.53
1:0H:262:PHE:CD1	1:0H:263:PRO:HD2	2.44	0.53
1:0I:265:GLU:HA	1:0I:268:LYS:HE2	1.90	0.53
1:0K:395:ASP:OD1	1:0K:396:LEU:N	2.42	0.53
1:0F:69:ALA:O	1:0F:113:HIS:CE1	2.59	0.53
1:0F:368:PRO:HA	1:0F:410:LYS:HB3	1.90	0.53
1:0N:262:PHE:CD1	1:0N:263:PRO:HD2	2.44	0.53
1:0N:337:LEU:O	1:0N:341:VAL:HG23	2.08	0.53
1:0P:347:GLU:HB3	1:0P:353:LYS:HG2	1.90	0.53
1:0Q:417:LEU:O	1:0Q:421:VAL:HG23	2.07	0.53
1:0U:87:GLN:HA	1:0U:90:TYR:HD2	1.73	0.53
1:0X:338:PRO:HB2	1:0X:339:PRO:HD3	1.91	0.53
1:0Y:34:ILE:HG23	1:0Y:68:LEU:HD22	1.89	0.53
1:1C:100:LYS:HE2	1:1C:141:VAL:HG11	1.90	0.53
3:1H:809:TRP:CG	3:1H:848:ARG:HH22	2.26	0.53
3:1I:952:GLY:O	3:1I:956:VAL:HG13	2.09	0.53
12:1a:16:ILE:HD11	12:1a:229:ILE:HG21	1.91	0.53
12:1a:342:VAL:HG11	12:1a:345:ILE:HD12	1.91	0.53
13:1b:103:PHE:HD2	13:1b:413:MET:HE1	1.73	0.53
14:2F:85:PHE:HB2	12:Ca:276:ARG:NH2	2.24	0.53
22:2P:27:UNK:O	22:2P:29:UNK:N	2.42	0.53
24:2V:141:ARG:NH2	13:Df:297:GLU:OE2	2.42	0.53
24:2V:202:ARG:HG2	12:Ce:194:GLU:CD	2.33	0.53
30:3G:544:LEU:HD21	13:7h:112:LYS:HZ2	1.74	0.53
33:3L:86:LEU:HG	33:3L:115:PHE:HE2	1.72	0.53
34:3M:46:ARG:NE	34:3M:449:GLU:OE2	2.42	0.53
34:3M:190:ASN:HB3	34:3M:193:LEU:HD23	1.91	0.53
34:3O:373:ALA:HA	34:3O:376:THR:HG22	1.91	0.53
34:3Q:250:ARG:HE	34:3T:247:ASP:CB	2.22	0.53
34:3Q:461:ALA:O	34:3Q:464:LEU:HG	2.08	0.53
34:3Q:492:LEU:HD22	34:3T:255:HIS:CG	2.44	0.53
34:3Q:507:VAL:HG22	34:3T:273:ARG:NH1	2.24	0.53
34:3T:342:GLN:NE2	34:3T:390:LEU:HD21	2.23	0.53
34:3V:42:LEU:HD23	34:3V:280:TRP:CE2	2.43	0.53
34:3Y:338:LEU:HD11	34:3Y:390:LEU:HG	1.90	0.53
34:3Y:493:LYS:O	34:3Y:497:MET:HG2	2.09	0.53
12:3a:207:LEU:HB3	12:3a:225:LEU:HD22	1.90	0.53
37:4E:542:ARG:HH22	42:5H:121:GLN:HE22	1.56	0.53
37:4E:1274:PRO:HD2	37:4E:1277:LEU:HD12	1.90	0.53
37:4E:1810:MET:O	37:4E:1814:GLN:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1074:GLN:HB3	38:4N:41:LYS:C	2.33	0.53
37:4F:1083:ILE:O	38:4N:38:VAL:CG2	2.57	0.53
37:4F:1093:VAL:HG22	38:4N:36:VAL:H	1.72	0.53
37:4F:1341:ILE:HG22	37:4F:1342:LEU:C	2.34	0.53
37:4G:854:TYR:HB2	38:4L:85:LEU:CD1	2.39	0.53
37:4H:793:THR:OG1	38:4J:70:LYS:NZ	2.34	0.53
37:4H:1084:ARG:HD3	38:4M:41:LYS:CD	2.35	0.53
37:4H:1142:GLY:HA3	37:4H:1325:ARG:NH2	2.24	0.53
37:4H:1723:TYR:HE1	37:4H:1736:ARG:HD3	1.73	0.53
38:4K:57:VAL:HB	38:4N:76:PRO:HD2	1.90	0.53
38:4M:61:LEU:HB3	38:4M:84:LEU:HD21	1.91	0.53
39:4R:181:SER:OG	39:4R:184:SER:HB2	2.07	0.53
40:4U:478:LEU:HD11	40:4U:487:LEU:HD21	1.90	0.53
12:4e:86:ARG:HB3	12:4e:88:ASP:OD1	2.09	0.53
13:4f:255:PHE:O	13:4f:259:LEU:HB2	2.08	0.53
13:4h:207:GLU:OE1	13:4h:304:LYS:NZ	2.30	0.53
42:5H:137:TYR:CD1	43:5L:46:PRO:CD	2.92	0.53
42:5H:143:VAL:HG23	43:5L:146:TYR:CA	2.38	0.53
43:5J:34:ALA:HB1	43:5J:42:TYR:CZ	2.44	0.53
43:5K:93:MET:HE3	43:5K:136:TYR:O	2.09	0.53
13:5b:342:GLN:NE2	13:5b:343:PHE:O	2.40	0.53
47:6B:6:ARG:HH11	47:6B:6:ARG:HG2	1.72	0.53
47:6B:595:ARG:NH1	47:6B:826:VAL:HG11	2.23	0.53
47:6B:959:HIS:HB3	47:6B:1084:LYS:HG3	1.90	0.53
47:6B:1214:LYS:O	47:6B:1218:VAL:HG23	2.08	0.53
3:6D:15:GLU:O	3:6D:19:LEU:HD23	2.08	0.53
49:6H:47:ILE:HD12	49:6H:121:LEU:HB3	1.91	0.53
49:6H:262:ASN:OD1	49:6H:262:ASN:N	2.33	0.53
49:6I:47:ILE:HD12	49:6I:121:LEU:HB3	1.91	0.53
50:6K:151:PRO:HB3	50:6K:212:ASP:OD2	2.09	0.53
50:6K:419:LEU:HD12	50:6K:484:PHE:CD2	2.44	0.53
50:6L:202:LEU:HD12	50:6L:327:LEU:HD21	1.91	0.53
50:6L:419:LEU:HD12	50:6L:484:PHE:CD2	2.44	0.53
51:6M:1710:LEU:O	51:6M:1714:LEU:HG	2.08	0.53
51:6M:2207:ARG:NH1	51:6M:2259:ASP:OD2	2.31	0.53
12:7e:11:GLN:HA	12:7e:72:THR:HG21	1.90	0.53
12:7e:86:ARG:CD	12:8e:281:TYR:CD1	2.88	0.53
12:8e:101:TRP:HD1	12:8e:145:SER:OG	1.91	0.53
13:Ad:313:MET:HE2	13:Ad:382:THR:HG22	1.90	0.53
13:Af:255:PHE:O	13:Af:259:LEU:HB2	2.08	0.53
12:Ag:114:ASP:OD1	12:Ag:115:SER:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bb:313:MET:HE2	13:Bb:382:THR:HG22	1.90	0.53
12:Bc:232:VAL:HG21	12:Bc:300:MET:SD	2.49	0.53
12:Be:222:PHE:CD2	13:Bf:247:ALA:HB1	2.44	0.53
12:Bg:151:LEU:O	12:Bg:155:ILE:HG12	2.08	0.53
12:Cc:151:LEU:O	12:Cc:155:ILE:HG12	2.08	0.53
12:Cg:232:VAL:HG22	12:Cg:270:PHE:HB2	1.91	0.53
13:Db:103:PHE:HD2	13:Db:413:MET:HE1	1.73	0.53
12:De:274:THR:HG22	12:De:282:ARG:HD3	1.90	0.53
1:0W:412:THR:OG1	1:0W:413:HIS:N	2.41	0.53
1:0I:395:ASP:OD1	1:0I:396:LEU:N	2.41	0.53
1:0A:89:VAL:HG21	1:0A:125:GLY:HA2	1.91	0.53
1:0A:127:LEU:O	1:0A:131:VAL:HG13	2.08	0.53
1:0D:413:HIS:CE1	1:0D:416:ALA:H	2.27	0.53
1:0G:86:PRO:HA	1:0G:89:VAL:HG22	1.90	0.53
1:0G:223:ALA:HB2	1:0G:262:PHE:CZ	2.42	0.53
1:0L:344:LEU:HD23	1:0L:347:GLU:OE2	2.09	0.53
1:0S:198:THR:HB	1:0S:201:LEU:HG	1.90	0.53
1:0S:248:VAL:HG12	1:0S:253:PHE:CZ	2.44	0.53
1:0V:286:ALA:O	1:0V:290:VAL:HG23	2.09	0.53
1:0Y:67:ARG:HA	1:0Y:70:ASN:ND2	2.24	0.53
2:1D:358:VAL:HG13	2:1D:363:VAL:HB	1.91	0.53
2:1D:511:ARG:C	2:1D:513:GLU:H	2.17	0.53
2:1E:232:ALA:C	2:1E:235:PRO:HD2	2.34	0.53
2:1G:22:ASP:O	2:1G:26:THR:HG22	2.08	0.53
2:1G:157:GLY:HA2	3:1I:96:ALA:HB2	1.89	0.53
3:1H:258:GLY:O	47:6A:347:ARG:NH2	2.39	0.53
3:1H:526:ASP:OD1	47:6A:351:ARG:HD3	2.09	0.53
3:1H:756:LEU:O	3:1H:760:THR:HG23	2.09	0.53
3:1H:1005:PRO:HA	47:6A:406:ARG:HB2	1.91	0.53
4:1K:194:LEU:HB3	4:1K:196:PHE:CD2	2.40	0.53
7:1O:914:LYS:HG3	7:1O:928:HIS:CD2	2.44	0.53
10:1R:383:GLY:HA3	13:Bb:207:GLU:OE2	2.09	0.53
13:1f:96:LYS:HB3	12:1g:129:CYS:SG	2.48	0.53
13:1h:103:PHE:HD2	13:1h:413:MET:HE1	1.73	0.53
14:2F:111:VAL:HG13	14:2F:112:GLY:H	1.73	0.53
15:2H:157:UNK:O	12:7g:77:ARG:NH2	2.41	0.53
13:2d:255:PHE:O	13:2d:259:LEU:HB2	2.08	0.53
12:2e:395:LEU:O	12:2e:399:THR:HG23	2.08	0.53
13:2h:103:PHE:HD2	13:2h:413:MET:HE1	1.73	0.53
30:3F:289:ARG:O	30:3F:294:ALA:HB2	2.08	0.53
30:3G:634:LYS:NZ	12:7e:410:GLU:HG3	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3M:502:VAL:HG12	34:3M:506:GLU:OE1	2.08	0.53
34:3O:443:ARG:HH21	34:3O:444:GLN:HG2	1.73	0.53
34:3R:258:TYR:CD2	34:3R:474:TRP:HD1	2.27	0.53
34:3U:365:GLU:OE1	34:3Z:377:ARG:NH1	2.35	0.53
13:3f:255:PHE:O	13:3f:259:LEU:HB2	2.08	0.53
13:3h:255:PHE:O	13:3h:259:LEU:HB2	2.08	0.53
36:4D:92:ASP:HB3	36:4D:131:TYR:HB2	1.91	0.53
37:4E:599:VAL:O	37:4E:1776:VAL:HA	2.08	0.53
37:4H:952:ASP:CG	37:4H:954:SER:CB	2.82	0.53
37:4H:1091:VAL:O	38:4M:37:GLY:HA3	2.06	0.53
38:4J:27:ALA:C	38:4J:30:ALA:H	2.17	0.53
38:4J:75:ASN:C	38:4J:77:VAL:N	2.66	0.53
38:4K:27:ALA:C	38:4K:30:ALA:H	2.17	0.53
38:4K:77:VAL:HG13	38:4N:84:LEU:HD22	1.91	0.53
38:4K:82:TYR:N	38:4K:82:TYR:CD1	2.71	0.53
38:4M:53:LEU:HD12	38:4M:54:GLU:N	2.24	0.53
39:4R:66:TYR:HD1	44:5Q:46:ASN:HD22	1.54	0.53
39:4S:19:TYR:CE2	43:5K:121:PHE:CD1	2.96	0.53
40:4T:478:LEU:HD11	40:4T:487:LEU:HD21	1.90	0.53
40:4V:213:LEU:HD13	40:4V:221:GLN:HB2	1.90	0.53
40:4V:249:VAL:HG13	40:4V:251:LEU:HD13	1.89	0.53
12:4c:101:TRP:HD1	12:4c:145:SER:OG	1.92	0.53
42:5H:137:TYR:CG	43:5L:47:LYS:C	2.86	0.53
42:5H:140:TYR:C	43:5L:47:LYS:HG2	2.31	0.53
43:5I:34:ALA:HB1	43:5I:42:TYR:CZ	2.44	0.53
44:5T:122:GLU:O	44:5T:125:VAL:HG12	2.09	0.53
12:5c:87:PRO:HA	12:5c:90:PHE:CD1	2.44	0.53
12:5g:321:MET:HG3	12:5g:363:MET:SD	2.49	0.53
47:6A:595:ARG:NH1	47:6A:826:VAL:HG11	2.23	0.53
47:6B:43:ASP:HB2	47:6B:45:ASP:OD1	2.09	0.53
47:6B:208:GLN:HE22	12:Bg:154:LYS:NZ	2.07	0.53
47:6B:366:GLU:HB3	3:6D:683:ARG:CD	2.38	0.53
47:6B:1088:ALA:HB3	47:6B:1089:LYS:HZ1	1.73	0.53
49:6G:47:ILE:HD12	49:6G:121:LEU:HB3	1.91	0.53
51:6N:2276:LEU:O	51:6N:2277:PRO:C	2.51	0.53
12:7a:323:THR:HA	12:7a:326:VAL:CG2	2.38	0.53
12:7g:73:MET:HE2	12:7g:90:PHE:HD2	1.74	0.53
12:9a:404:ASP:HB3	12:9a:407:GLU:OE1	2.08	0.53
12:9c:116:VAL:HA	12:9c:119:VAL:HG12	1.91	0.53
12:9g:232:VAL:HG21	12:9g:300:MET:SD	2.49	0.53
13:Ab:255:PHE:O	13:Ab:259:LEU:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bg:232:VAL:HG21	12:Bg:300:MET:SD	2.49	0.53
13:Cf:248:LEU:HB3	13:Cf:354:GLY:HA2	1.89	0.53
13:Ch:248:LEU:HB3	13:Ch:354:GLY:HA2	1.89	0.53
12:Da:60:VAL:HG12	12:Da:86:ARG:CZ	2.39	0.53
12:Da:170:VAL:CG1	12:Da:201:VAL:HG23	2.39	0.53
12:Dc:141:GLY:O	12:Dc:145:SER:OG	2.20	0.53
13:Dd:103:PHE:HD2	13:Dd:413:MET:HE1	1.73	0.53
1:0H:88:LEU:O	1:0H:91:SER:HB3	2.09	0.53
1:0I:283:PRO:HG3	1:0I:323:PHE:HB3	1.89	0.53
1:0K:308:ASN:HA	1:0K:311:LEU:HD12	1.91	0.53
1:0B:67:ARG:HA	1:0B:70:ASN:ND2	2.24	0.53
1:0B:196:LYS:HA	1:0B:239:HIS:HE1	1.74	0.53
1:0B:240:SER:HB3	1:0B:243:LEU:HG	1.91	0.53
1:0D:48:PRO:HA	1:0D:51:LEU:HD12	1.91	0.53
1:0G:142:LYS:HB2	1:0G:183:LEU:HD11	1.91	0.53
1:0G:169:VAL:H	1:0G:170:PRO:HD2	1.74	0.53
1:0L:225:LEU:O	1:0L:229:VAL:HG22	2.09	0.53
1:0P:27:MET:O	1:0P:33:ASN:HB2	2.09	0.53
1:0P:128:ASP:HA	1:0P:131:VAL:HG22	1.90	0.53
1:0R:147:TRP:NE1	1:0R:186:ILE:HG13	2.23	0.53
1:0T:131:VAL:HA	1:0T:134:LEU:HD12	1.90	0.53
1:0T:343:ALA:O	1:0T:346:GLU:C	2.52	0.53
1:0U:346:GLU:HG3	1:0U:347:GLU:OE1	2.09	0.53
1:1A:275:VAL:HG13	1:1A:289:VAL:HG11	1.90	0.53
1:1B:15:LYS:HA	1:1B:18:VAL:HG22	1.90	0.53
1:1B:108:ARG:HD3	1:1B:147:TRP:HB3	1.91	0.53
1:1B:265:GLU:HA	1:1B:268:LYS:HE2	1.91	0.53
1:1B:318:GLY:HA3	1:1B:358:TRP:CZ3	2.44	0.53
1:1C:224:LYS:O	1:1C:228:GLN:HG2	2.08	0.53
2:1F:10:ALA:O	2:1F:14:VAL:HG23	2.09	0.53
3:1H:890:ARG:HB3	3:1H:892:ILE:HG13	1.90	0.53
3:1I:505:GLY:HA3	3:1I:549:VAL:HG11	1.90	0.53
3:1I:614:LEU:HD21	3:1I:656:TYR:CE1	2.44	0.53
4:1K:41:SER:HA	4:1K:44:VAL:HG22	1.91	0.53
5:1L:564:ARG:HD2	5:1L:564:ARG:N	2.24	0.53
6:1N:1986:PRO:HG2	6:1N:1988:PHE:CZ	2.44	0.53
9:1Q:392:THR:CG2	9:1Q:433:ALA:HB1	2.39	0.53
10:1R:392:LEU:C	10:1R:394:ARG:H	2.15	0.53
11:1T:530:GLU:HA	11:1T:600:ALA:HB1	1.90	0.53
13:1f:103:PHE:HD2	13:1f:413:MET:HE1	1.73	0.53
12:1g:134:GLN:HA	12:1g:165:LEU:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2U:128:VAL:HG11	12:De:332:ASN:ND2	2.24	0.53
12:2e:113:ILE:HA	12:2e:116:VAL:CG2	2.37	0.53
13:2f:313:MET:HE2	13:2f:382:THR:HG22	1.90	0.53
29:3E:1173:SER:O	29:3E:1177:LEU:HG	2.09	0.53
30:3F:506:ARG:HG2	12:7a:402:GLY:HA3	1.91	0.53
34:3M:100:ILE:HG12	34:3M:338:LEU:HD22	1.90	0.53
34:3P:266:HIS:CE1	34:3S:506:GLU:HB2	2.43	0.53
34:3Q:443:ARG:HH21	34:3Q:444:GLN:HG2	1.74	0.53
34:3U:263:LYS:O	34:3U:267:GLU:HG2	2.09	0.53
34:3X:273:ARG:HA	34:3X:456:LEU:HD13	1.90	0.53
13:3d:255:PHE:O	13:3d:259:LEU:HB2	2.08	0.53
34:4A:308:GLU:HG2	34:4A:422:HIS:HE1	1.73	0.53
37:4E:579:THR:HA	43:5L:35:LYS:HE3	1.88	0.53
37:4E:1104:PRO:C	37:4E:1105:LEU:HG	2.33	0.53
37:4F:972:PHE:CD2	37:4F:972:PHE:C	2.86	0.53
37:4F:1081:HIS:HE1	37:4F:1096:ALA:H	1.57	0.53
37:4G:687:MET:O	37:4G:690:CYS:N	2.27	0.53
37:4G:826:LEU:HD13	38:4L:85:LEU:HD21	1.91	0.53
37:4G:1317:ASP:HB2	37:4G:1321:THR:OG1	2.09	0.53
37:4G:1323:ILE:HB	37:4G:1323:ILE:O	2.09	0.53
37:4H:1089:GLY:O	37:4H:1140:ARG:N	2.41	0.53
37:4H:1144:LEU:HG	38:4M:29:LYS:HB2	1.90	0.53
37:4H:1384:ALA:H	37:4H:1458:PRO:HD3	1.72	0.53
38:4I:53:LEU:HD12	38:4I:54:GLU:N	2.24	0.53
40:4U:249:VAL:HG13	40:4U:251:LEU:HD13	1.89	0.53
40:4V:648:SER:HA	40:4V:654:ARG:HD3	1.90	0.53
40:4V:714:ASP:OD1	40:4V:714:ASP:C	2.52	0.53
12:4c:60:VAL:HG21	12:4c:86:ARG:NH2	2.24	0.53
12:4g:267:MET:HE1	12:4g:305:PRO:HG3	1.90	0.53
41:5A:144:HIS:HA	41:5A:161:PHE:C	2.34	0.53
42:5H:81:VAL:O	43:5L:46:PRO:HG3	2.09	0.53
12:5c:253:LEU:HD21	12:5c:316:LEU:HD21	1.89	0.53
12:5g:86:ARG:CG	12:6g:281:TYR:HB3	2.38	0.53
47:6A:959:HIS:HB3	47:6A:1084:LYS:HG3	1.90	0.53
48:6F:484:LEU:HA	48:6F:614:VAL:HG21	1.91	0.53
49:6H:102:LEU:O	49:6H:104:LYS:HG2	2.09	0.53
49:6H:340:PHE:CG	49:6H:347:PRO:HB2	2.44	0.53
49:6I:340:PHE:CG	49:6I:347:PRO:HB2	2.44	0.53
49:6J:47:ILE:HD12	49:6J:121:LEU:HB3	1.91	0.53
51:6M:1416:ALA:O	51:6M:1420:LEU:HD23	2.09	0.53
51:6M:2289:VAL:HG12	51:6M:2291:PRO:HD3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6M:2469:GLY:O	51:6M:2472:GLN:HG3	2.08	0.53
51:6M:2492:ALA:O	51:6M:2496:ARG:HG3	2.09	0.53
13:6f:403:ALA:HB2	12:6g:344:TRP:HZ3	1.73	0.53
12:7c:165:LEU:HD22	12:7c:250:LEU:HD11	1.90	0.53
12:8e:210:ILE:O	12:8e:214:THR:HG22	2.09	0.53
12:8g:68:LEU:HD21	12:8g:147:MET:SD	2.49	0.53
13:9b:255:PHE:O	13:9b:259:LEU:HB2	2.08	0.53
12:9e:58:ARG:NH2	12:Ae:281:TYR:OH	2.41	0.53
12:9e:117:LEU:HA	12:9e:120:VAL:HG22	1.90	0.53
13:Ab:313:MET:HE2	13:Ab:382:THR:HG22	1.90	0.53
12:Ac:337:ASN:HB3	12:Ac:340:TYR:HD2	1.74	0.53
13:Bf:313:MET:HE2	13:Bf:382:THR:HG22	1.90	0.53
13:Bh:313:MET:HE2	13:Bh:382:THR:HG22	1.90	0.53
13:Cb:269:LEU:N	13:Cb:379:SER:O	2.33	0.53
12:Cc:232:VAL:HG21	12:Cc:300:MET:SD	2.49	0.53
12:Cg:272:PRO:HD3	12:Cg:364:SER:HA	1.91	0.53
12:De:185:ALA:O	12:De:189:VAL:HG23	2.09	0.53
13:Df:103:PHE:HD2	13:Df:413:MET:HE1	1.73	0.53
1:0J:253:PHE:HA	1:0J:256:ILE:HB	1.91	0.53
44:5P:9:THR:HG23	44:5P:12:GLN:H	1.73	0.53
1:0A:94:GLU:CD	1:0A:99:TYR:CE2	2.87	0.52
1:0B:34:ILE:HG23	1:0B:68:LEU:HD22	1.91	0.52
1:0D:87:GLN:HA	1:0D:90:TYR:HD2	1.73	0.52
1:0D:262:PHE:CD1	1:0D:263:PRO:HD2	2.44	0.52
1:0D:371:ALA:C	1:0D:411:LEU:HD12	2.34	0.52
1:0E:280:LYS:HE3	1:0E:319:TYR:CZ	2.44	0.52
1:0F:202:ALA:O	1:0F:206:VAL:HG23	2.10	0.52
1:0F:332:ILE:CG1	1:0F:370:HIS:CD2	2.89	0.52
1:0L:131:VAL:HA	1:0L:134:LEU:HD12	1.90	0.52
1:0M:131:VAL:HG13	1:0M:171:LEU:HD11	1.90	0.52
1:0M:245:GLU:HA	1:0M:248:VAL:HG22	1.91	0.52
1:0M:329:LEU:HA	1:0M:370:HIS:HE1	1.73	0.52
1:0M:346:GLU:HG3	1:0M:347:GLU:CD	2.34	0.52
1:0P:108:ARG:HG2	1:0P:148:THR:HG22	1.90	0.52
1:0S:131:VAL:HG13	1:0S:171:LEU:HD11	1.91	0.52
1:0V:7:LEU:O	1:0V:11:GLU:HG3	2.09	0.52
1:0V:202:ALA:O	1:0V:206:VAL:HG23	2.09	0.52
1:0V:262:PHE:CD1	1:0V:263:PRO:HD2	2.43	0.52
1:0V:280:LYS:HE3	1:0V:319:TYR:CZ	2.45	0.52
1:0Y:320:ILE:HB	1:0Y:327:LEU:HD13	1.90	0.52
1:0Z:316:ALA:O	1:0Z:320:ILE:HG13	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:371:ALA:C	1:1A:411:LEU:HD12	2.34	0.52
2:1G:328:ALA:O	2:1G:331:LYS:HG3	2.10	0.52
2:1G:503:ALA:O	2:1G:507:HIS:N	2.34	0.52
3:1H:197:SER:O	47:6A:288:ASP:C	2.52	0.52
3:1H:1005:PRO:CG	47:6A:406:ARG:HB2	2.38	0.52
4:1J:41:SER:HA	4:1J:44:VAL:HG22	1.91	0.52
6:1N:355:ALA:O	6:1N:392:GLN:NE2	2.40	0.52
6:1N:1029:PRO:HA	6:1N:1032:TRP:HD1	1.72	0.52
6:1N:1949:THR:HG22	6:1N:1951:THR:HG22	1.91	0.52
10:1R:382:LEU:HG	13:Bb:214:ARG:NH1	2.24	0.52
10:1S:135:THR:O	10:1S:143:LEU:HD11	2.09	0.52
12:1a:207:LEU:HB3	12:1a:225:LEU:HD22	1.91	0.52
12:1a:208:TYR:CE1	12:1a:225:LEU:HD11	2.45	0.52
12:1c:232:VAL:HG21	12:1c:300:MET:SD	2.49	0.52
14:2F:41:TRP:HZ2	12:Da:74:ASP:N	2.06	0.52
14:2F:164:ALA:HB1	12:Aa:215:LEU:HD22	1.91	0.52
13:2b:103:PHE:HD2	13:2b:413:MET:HE1	1.73	0.52
13:2f:103:PHE:HD2	13:2f:413:MET:HE1	1.73	0.52
30:3F:382:TRP:CE2	13:8f:342:GLN:OE1	2.62	0.52
33:3L:38:LEU:HD21	33:3L:52:LEU:HD21	1.89	0.52
34:3M:338:LEU:HD11	34:3M:390:LEU:HD23	1.90	0.52
34:3O:387:VAL:O	34:3O:391:GLU:HG2	2.08	0.52
34:3R:473:GLY:O	34:3R:477:GLU:HG2	2.09	0.52
34:3S:34:PHE:CE1	34:3S:273:ARG:HD2	2.45	0.52
34:3T:348:LYS:HG3	34:3T:382:LEU:HD22	1.91	0.52
34:3Y:356:PHE:HZ	34:3Y:378:SER:HG	1.56	0.52
12:3a:60:VAL:HB	12:3a:86:ARG:HG2	1.90	0.52
13:3b:255:PHE:O	13:3b:259:LEU:HB2	2.08	0.52
12:3e:58:ARG:HD2	12:4e:280:GLN:NE2	2.25	0.52
13:3f:210:TYR:CE1	12:3g:324:LYS:HB2	2.44	0.52
13:3h:103:PHE:HD2	13:3h:413:MET:HE1	1.73	0.52
35:4C:811:ARG:HH12	37:4E:1681:ARG:CD	2.22	0.52
37:4E:586:PHE:CD2	43:5L:15:LEU:CG	2.78	0.52
37:4E:824:ALA:HB1	38:4P:85:LEU:HD13	1.90	0.52
37:4E:1123:LEU:CD2	43:5L:137:ARG:HB2	2.38	0.52
37:4F:1299:ARG:HD3	37:4F:1303:VAL:CG2	2.35	0.52
37:4F:1793:THR:O	37:4F:1797:VAL:HG23	2.08	0.52
37:4G:958:LEU:HD11	37:4G:970:SER:HB3	1.91	0.52
37:4G:1082:LEU:CD1	38:4L:36:VAL:CB	2.77	0.52
37:4G:1093:VAL:CA	38:4L:36:VAL:H	2.21	0.52
37:4G:1094:ALA:HB1	37:4G:1095:PRO:CG	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1081:HIS:HB3	37:4H:1338:PHE:HE1	1.73	0.52
37:4H:1333:VAL:CA	37:4H:1334:GLU:OE1	2.57	0.52
37:4H:1379:ALA:HA	37:4H:1384:ALA:HA	1.90	0.52
38:4I:72:ARG:HB3	38:4L:49:ILE:HG23	1.90	0.52
38:4K:25:PRO:HG3	42:5G:93:GLU:HA	1.90	0.52
38:4L:27:ALA:C	38:4L:30:ALA:H	2.17	0.52
38:4L:42:ILE:O	38:4L:45:ALA:O	2.27	0.52
38:4M:42:ILE:O	38:4M:45:ALA:O	2.27	0.52
39:4R:63:ILE:HD13	44:5Q:96:PHE:CE2	2.44	0.52
40:4V:540:LEU:HD22	40:4V:547:LEU:HD21	1.90	0.52
12:4e:64:ILE:HD13	12:4e:120:VAL:HG22	1.90	0.52
12:4e:171:PRO:HG3	12:4e:181:GLU:HG2	1.89	0.52
41:5A:141:ASN:CB	43:5L:168:GLU:CB	2.87	0.52
41:5D:144:HIS:H	41:5D:164:GLY:HA2	1.74	0.52
42:5H:92:THR:N	43:5L:41:ASP:CB	2.59	0.52
42:5H:131:ARG:CA	43:5L:53:ASP:HB3	2.36	0.52
42:5H:139:LEU:CA	43:5L:146:TYR:CE1	2.92	0.52
43:5I:60:GLN:O	43:5I:64:THR:HG23	2.08	0.52
43:5K:113:PRO:CA	44:5U:112:VAL:HG22	2.35	0.52
43:5L:79:VAL:HG22	43:5L:131:MET:HE1	1.90	0.52
44:5S:105:SER:HA	44:5S:139:GLN:HA	1.91	0.52
12:5c:232:VAL:HG21	12:5c:300:MET:SD	2.49	0.52
47:6A:43:ASP:HB2	47:6A:45:ASP:OD1	2.09	0.52
47:6A:131:LEU:HD12	47:6A:132:LEU:N	2.24	0.52
47:6A:291:GLN:HG3	47:6A:291:GLN:O	2.08	0.52
47:6A:1797:SER:O	47:6A:1798:ASN:O	2.27	0.52
3:6D:1010:LEU:HG	48:6E:353:ILE:HG12	1.91	0.52
49:6G:340:PHE:CG	49:6G:347:PRO:HB2	2.44	0.52
49:6J:340:PHE:CG	49:6J:347:PRO:HB2	2.44	0.52
50:6K:45:PHE:CD1	50:6K:107:VAL:HG21	2.44	0.52
50:6L:45:PHE:CD1	50:6L:107:VAL:HG21	2.44	0.52
51:6M:1625:VAL:HG13	51:6M:1638:VAL:HG12	1.91	0.52
51:6N:2469:GLY:O	51:6N:2472:GLN:HG3	2.08	0.52
12:6e:206:ALA:O	12:6e:210:ILE:HG23	2.09	0.52
12:6g:267:MET:HE1	12:6g:305:PRO:HG3	1.91	0.52
12:8c:151:LEU:O	12:8c:155:ILE:HG12	2.08	0.52
12:8e:382:SER:O	12:8e:386:THR:HG23	2.08	0.52
12:Ag:111:GLU:OE2	12:Ag:112:LEU:HG	2.09	0.52
12:Bc:134:GLN:HA	12:Bc:165:LEU:O	2.10	0.52
13:Bd:272:TYR:HB3	13:Bd:275:ILE:HD11	1.92	0.52
12:Be:405:GLU:OE1	12:Be:405:GLU:HA	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bf:272:TYR:HB3	13:Bf:275:ILE:HD11	1.92	0.52
12:Ca:207:LEU:HB3	12:Ca:225:LEU:HD22	1.90	0.52
12:Dc:73:MET:HE2	12:Dc:90:PHE:HD2	1.75	0.52
12:Dg:101:TRP:HD1	12:Dg:145:SER:OG	1.92	0.52
1:0J:210:ALA:O	1:0J:214:LEU:HG	2.08	0.52
1:0W:223:ALA:HB2	1:0W:262:PHE:CZ	2.43	0.52
1:0K:224:LYS:O	1:0K:228:GLN:HG2	2.09	0.52
1:0K:248:VAL:HG21	1:0K:285:LEU:HD22	1.91	0.52
1:0A:87:GLN:NE2	47:6B:114:THR:HG21	2.24	0.52
1:0A:127:LEU:HB3	1:0A:166:ALA:HB2	1.91	0.52
1:0D:273:THR:O	1:0D:277:GLU:HG2	2.09	0.52
1:0G:291:GLY:HA2	39:4R:125:VAL:HG13	1.90	0.52
1:0N:28:ALA:HB1	1:0N:67:ARG:HB2	1.91	0.52
1:0O:260:LEU:HD23	1:0O:261:LYS:HE3	1.90	0.52
1:0O:262:PHE:CD1	1:0O:263:PRO:HD2	2.44	0.52
1:0R:85:LEU:HA	1:0R:88:LEU:HD12	1.92	0.52
1:0S:367:THR:HB	1:0S:370:HIS:HD1	1.72	0.52
1:0U:196:LYS:HD3	5:1M:585:MET:HE2	1.91	0.52
1:1B:315:MET:HG3	1:1B:319:TYR:CE2	2.45	0.52
2:1E:21:VAL:HG21	2:1G:46:LEU:HD21	1.90	0.52
4:1J:20:THR:HG23	4:1J:21:ILE:HG12	1.89	0.52
5:1M:518:LEU:HD22	13:1f:417:GLU:HB3	1.91	0.52
10:1R:364:PHE:CE2	12:Bc:294:TRP:HB3	2.44	0.52
10:1S:46:ILE:HG23	10:1S:102:LEU:HD23	1.90	0.52
10:1S:404:LEU:HD21	12:Ae:111:GLU:OE2	2.09	0.52
13:1b:272:TYR:HB3	13:1b:275:ILE:HD11	1.92	0.52
24:2V:145:TRP:CH2	24:2V:161:HIS:HB3	2.44	0.52
13:2d:407:TRP:CD2	12:2e:255:VAL:HG22	2.45	0.52
12:2g:10:GLY:O	12:2g:14:ASN:ND2	2.41	0.52
30:3F:369:TYR:CZ	31:3I:459:SER:HA	2.44	0.52
30:3F:530:THR:CG2	31:3H:385:ILE:HA	2.40	0.52
30:3G:736:ALA:O	30:3G:739:GLU:HG3	2.09	0.52
31:3I:354:LEU:HD13	31:3I:361:PRO:HA	1.91	0.52
31:3I:360:ASN:O	31:3I:364:VAL:HG23	2.09	0.52
34:3M:324:HIS:CD2	34:3M:407:MET:HE1	2.43	0.52
34:3O:339:GLU:O	34:3O:343:THR:HG23	2.09	0.52
34:3R:289:ALA:HB1	34:4B:207:TYR:CE2	2.43	0.52
34:3Z:352:LEU:O	34:3Z:356:PHE:CD2	2.62	0.52
12:3e:6:HIS:HD2	12:3e:134:GLN:HG3	1.74	0.52
12:3e:207:LEU:HB3	12:3e:225:LEU:HD22	1.90	0.52
12:3g:114:ASP:OD1	12:3g:115:SER:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4C:915:LEU:HD21	35:4C:1072:ARG:HG2	1.91	0.52
37:4E:1183:GLY:HA3	37:4E:1197:PRO:HA	1.90	0.52
37:4E:1645:TYR:HE2	37:4E:1780:LEU:HD11	1.72	0.52
37:4F:603:ASP:HA	37:4F:786:GLN:NE2	2.23	0.52
37:4F:826:LEU:HD11	38:4N:82:TYR:HE1	1.73	0.52
37:4F:960:LEU:HD11	37:4F:968:VAL:HG12	1.86	0.52
37:4F:1384:ALA:H	37:4F:1458:PRO:HD3	1.72	0.52
37:4G:859:GLU:HG2	37:4G:860:LEU:H	1.74	0.52
37:4G:1075:VAL:CG1	37:4G:1083:ILE:CG2	2.87	0.52
37:4G:1093:VAL:CG1	38:4L:32:GLU:C	2.82	0.52
37:4G:1094:ALA:O	37:4G:1338:PHE:HZ	1.91	0.52
37:4H:671:LEU:HB3	38:4J:39:HIS:ND1	2.24	0.52
38:4J:47:ALA:HA	38:4J:50:ARG:CB	2.40	0.52
38:4J:61:LEU:HB3	38:4J:84:LEU:HD21	1.91	0.52
38:4K:25:PRO:CB	42:5G:96:ALA:HB1	2.39	0.52
38:4L:53:LEU:HD12	38:4L:54:GLU:N	2.24	0.52
38:4L:61:LEU:HB3	38:4L:84:LEU:HD21	1.91	0.52
40:4T:249:VAL:HG13	40:4T:251:LEU:HD13	1.89	0.52
40:4T:714:ASP:OD1	40:4T:714:ASP:C	2.52	0.52
12:4c:185:ALA:O	12:4c:189:VAL:HG13	2.09	0.52
12:4g:111:GLU:OE2	12:4g:112:LEU:HG	2.09	0.52
42:5H:91:TYR:HE1	43:5L:49:ALA:CA	2.20	0.52
42:5H:137:TYR:CZ	43:5L:45:ASN:CB	2.89	0.52
43:5I:93:MET:HE3	43:5I:136:TYR:O	2.09	0.52
44:5R:114:THR:O	44:5R:119:LYS:HD2	2.10	0.52
44:5T:105:SER:HA	44:5T:139:GLN:HA	1.92	0.52
44:5V:92:ALA:O	44:5V:95:VAL:HG22	2.09	0.52
13:5b:207:GLU:OE1	13:5b:304:LYS:NZ	2.30	0.52
13:5d:317:LEU:HB3	13:5d:319:TYR:HE1	1.72	0.52
13:5f:207:GLU:OE1	13:5f:304:LYS:NZ	2.30	0.52
47:6A:65:PRO:CB	47:6A:129:ARG:HH11	2.16	0.52
47:6B:131:LEU:HD12	47:6B:132:LEU:N	2.24	0.52
47:6B:409:ARG:O	47:6B:413:TYR:HD1	1.93	0.52
3:6D:988:TRP:HA	3:6D:991:ILE:CD1	2.39	0.52
48:6E:643:ILE:HD11	48:6E:654:GLN:O	2.08	0.52
49:6G:102:LEU:O	49:6G:104:LYS:HG2	2.09	0.52
50:6K:392:GLU:CD	50:6K:392:GLU:H	2.18	0.52
50:6K:594:GLU:CG	50:6K:596:GLU:HG2	2.39	0.52
50:6L:392:GLU:CD	50:6L:392:GLU:H	2.17	0.52
51:6M:1505:ASP:O	51:6M:1509:VAL:HG23	2.09	0.52
51:6N:1416:ALA:O	51:6N:1420:LEU:HD23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6N:2492:ALA:O	51:6N:2496:ARG:HG3	2.09	0.52
12:6c:321:MET:HG3	12:6c:363:MET:SD	2.49	0.52
12:6g:306:ARG:HG2	12:6g:340:TYR:CE1	2.45	0.52
13:7b:255:PHE:O	13:7b:259:LEU:HB2	2.08	0.52
13:7h:255:PHE:O	13:7h:259:LEU:HB2	2.08	0.52
12:9c:116:VAL:O	12:9c:120:VAL:HG23	2.09	0.52
12:9c:272:PRO:HD3	12:9c:364:SER:HA	1.90	0.52
12:Ae:206:ALA:O	12:Ae:210:ILE:HG23	2.09	0.52
13:Bb:272:TYR:HB3	13:Bb:275:ILE:HD11	1.92	0.52
12:Be:404:ASP:HB3	12:Be:407:GLU:OE1	2.09	0.52
12:Ca:318:ARG:NH1	12:Ca:358:PRO:HB3	2.24	0.52
12:Cc:107:THR:HG21	12:Cc:401:GLU:HB3	1.91	0.52
12:Ce:222:PHE:HE2	13:Cf:248:LEU:HG	1.74	0.52
13:Ch:255:PHE:O	13:Ch:259:LEU:HB2	2.08	0.52
12:Da:58:ARG:NE	12:Da:86:ARG:HH12	1.92	0.52
1:0I:185:ARG:HD3	1:0I:224:LYS:HD2	1.91	0.52
1:0I:294:GLY:O	1:0I:298:LEU:HD23	2.09	0.52
44:5P:114:THR:O	44:5P:119:LYS:HD2	2.10	0.52
1:0A:86:PRO:HA	1:0A:89:VAL:HG12	1.91	0.52
1:0A:137:PHE:HZ	4:1J:72:PHE:HB3	1.74	0.52
1:0C:335:LYS:NZ	1:0C:339:PRO:HD3	2.25	0.52
1:0E:358:TRP:CD1	1:0E:362:GLN:HE22	2.27	0.52
1:0N:225:LEU:O	1:0N:229:VAL:HG22	2.09	0.52
1:0Q:283:PRO:HG3	1:0Q:323:PHE:HB3	1.89	0.52
1:0Q:411:LEU:HG	1:0Q:412:THR:O	2.09	0.52
1:0R:92:LEU:HA	1:0R:100:LYS:HG2	1.92	0.52
1:0R:216:PRO:HA	1:0R:219:ILE:HG13	1.91	0.52
1:0S:72:SER:HB3	1:0S:75:LEU:HG	1.91	0.52
1:0S:168:ALA:O	1:0S:172:LEU:HG	2.08	0.52
1:0U:282:THR:OG1	1:0U:285:LEU:HG	2.10	0.52
1:0X:319:TYR:O	1:0X:323:PHE:HD2	1.91	0.52
1:0Z:335:LYS:NZ	1:0Z:339:PRO:HD3	2.25	0.52
3:1H:951:TYR:CE2	47:6A:391:ARG:NH2	2.77	0.52
3:1I:178:ALA:HA	3:1I:181:ILE:HD12	1.91	0.52
4:1K:20:THR:HG23	4:1K:21:ILE:HG12	1.89	0.52
6:1N:1188:VAL:HG12	6:1N:1191:GLU:H	1.74	0.52
6:1N:2034:VAL:HG22	6:1N:2037:ALA:HB3	1.92	0.52
13:1b:407:TRP:HH2	12:1c:197:ASP:OD2	1.93	0.52
12:1e:222:PHE:CE1	13:1f:325:PRO:HB3	2.45	0.52
13:1f:272:TYR:HB3	13:1f:275:ILE:HD11	1.92	0.52
12:1g:151:LEU:O	12:1g:155:ILE:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1h:218:ASP:HB3	14:2G:39:PRO:HG3	1.90	0.52
14:2F:122:ALA:HB1	14:2F:125:THR:CG2	2.33	0.52
12:2c:267:MET:HE1	12:2c:305:PRO:HG3	1.91	0.52
12:2g:232:VAL:HG21	12:2g:300:MET:SD	2.49	0.52
30:3F:495:ARG:O	30:3F:498:VAL:HG22	2.10	0.52
30:3F:611:ARG:NH1	30:3F:615:GLU:HB2	2.23	0.52
32:3J:58:LEU:HD12	32:3J:58:LEU:N	2.23	0.52
32:3J:99:LEU:HD21	32:3J:105:GLU:HB2	1.91	0.52
34:3P:294:HIS:CE1	34:3P:437:GLY:HA3	2.44	0.52
34:3R:33:GLN:HB3	34:4B:91:GLU:HG2	1.90	0.52
34:3U:382:LEU:HA	34:3U:385:GLU:OE2	2.10	0.52
34:3V:38:HIS:NE2	34:3V:452:HIS:HE1	2.07	0.52
13:3b:272:TYR:HB3	13:3b:275:ILE:HD11	1.92	0.52
12:3c:183:TYR:OH	12:3c:388:MET:HB3	2.09	0.52
13:3d:103:PHE:HD2	13:3d:413:MET:HE1	1.73	0.52
13:3d:272:TYR:HB3	13:3d:275:ILE:HD11	1.92	0.52
13:3f:103:PHE:HD2	13:3f:413:MET:HE1	1.73	0.52
13:3h:272:TYR:HB3	13:3h:275:ILE:HD11	1.92	0.52
36:4D:119:ARG:HB2	36:4D:156:LEU:HB2	1.90	0.52
37:4E:575:SER:H	43:5L:30:ARG:CD	2.11	0.52
37:4E:578:ASP:CA	43:5L:43:GLN:HE21	2.22	0.52
37:4E:819:LEU:HD12	37:4E:1521:PRO:HB3	1.90	0.52
37:4E:819:LEU:CD1	37:4E:1521:PRO:HB3	2.38	0.52
37:4E:1184:TRP:CZ2	38:4O:31:ALA:HB3	2.44	0.52
37:4G:529:VAL:CG2	38:4I:66:GLN:HE21	2.17	0.52
37:4G:933:ARG:NH2	38:4I:71:GLU:HB3	2.25	0.52
37:4H:590:LYS:HG2	37:4H:591:PRO:HD2	1.91	0.52
37:4H:686:HIS:HE1	38:4J:54:GLU:OE2	1.93	0.52
38:4J:24:THR:CG2	42:5F:97:HIS:HB2	2.39	0.52
38:4K:39:HIS:O	38:4K:40:LYS:C	2.52	0.52
38:4K:47:ALA:HA	38:4K:50:ARG:CB	2.40	0.52
38:4L:47:ALA:HA	38:4L:50:ARG:CB	2.40	0.52
38:4M:27:ALA:C	38:4M:30:ALA:H	2.17	0.52
38:4O:14:VAL:HG22	38:4O:17:LEU:HD12	1.91	0.52
40:4U:427:SER:HB2	40:4U:455:THR:CG2	2.40	0.52
40:4U:501:ARG:HD2	44:5R:34:LYS:HD2	1.90	0.52
40:4U:714:ASP:OD1	40:4U:714:ASP:C	2.52	0.52
12:4g:171:PRO:HB3	12:4g:181:GLU:HG3	1.90	0.52
41:5A:125:THR:HA	41:5A:134:TYR:O	2.10	0.52
42:5H:93:GLU:CA	43:5L:45:ASN:ND2	2.72	0.52
42:5H:135:ARG:HG2	43:5L:54:LEU:C	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:135:ARG:O	43:5L:51:HIS:HB2	2.08	0.52
43:5I:138:HIS:O	43:5I:142:TYR:HD2	1.92	0.52
43:5J:22:HIS:CE1	43:5J:24:LYS:HE2	2.45	0.52
43:5J:93:MET:HE3	43:5J:136:TYR:O	2.09	0.52
43:5K:22:HIS:CE1	43:5K:24:LYS:HE2	2.45	0.52
43:5L:138:HIS:O	43:5L:142:TYR:HD2	1.92	0.52
12:5a:185:ALA:O	12:5a:189:VAL:HG13	2.09	0.52
12:5e:86:ARG:CZ	12:6e:281:TYR:HA	2.39	0.52
12:5e:284:LEU:HD21	12:5e:363:MET:HG3	1.91	0.52
12:5e:415:MET:O	12:5e:419:VAL:HG23	2.09	0.52
47:6A:409:ARG:O	47:6A:413:TYR:HD1	1.93	0.52
47:6B:291:GLN:HG3	47:6B:291:GLN:O	2.08	0.52
3:6D:186:ARG:HA	3:6D:189:LEU:CD2	2.39	0.52
48:6E:847:LEU:HD23	48:6E:873:PRO:HG3	1.92	0.52
48:6E:896:ALA:HB2	48:6E:903:ILE:HG13	1.90	0.52
48:6F:169:SER:HA	48:6F:192:ASP:HB3	1.91	0.52
48:6F:847:LEU:HD23	48:6F:873:PRO:HG3	1.92	0.52
49:6I:195:ILE:HB	49:6I:210:PHE:HB2	1.91	0.52
49:6J:125:ASP:HB3	49:6J:128:LYS:HE3	1.92	0.52
51:6M:1251:LYS:HZ1	51:6M:1323:ASP:HB3	1.75	0.52
51:6N:1505:ASP:O	51:6N:1509:VAL:HG23	2.09	0.52
51:6N:1625:VAL:HG13	51:6N:1638:VAL:HG12	1.91	0.52
12:7a:207:LEU:HB3	12:7a:225:LEU:HD22	1.89	0.52
13:7d:255:PHE:O	13:7d:259:LEU:HB2	2.08	0.52
12:8g:232:VAL:HG21	12:8g:300:MET:SD	2.50	0.52
12:Ac:232:VAL:HG21	12:Ac:300:MET:SD	2.49	0.52
12:Ag:274:THR:HG21	12:Ag:279:GLN:HA	1.91	0.52
13:Ah:328:VAL:O	13:Ah:332:VAL:HG12	2.10	0.52
12:Be:11:GLN:HA	12:Be:72:THR:HG21	1.91	0.52
13:Bh:272:TYR:HB3	13:Bh:275:ILE:HD11	1.92	0.52
13:Cb:222:PRO:O	12:Cc:324:LYS:HB3	2.09	0.52
13:Cf:255:PHE:O	13:Cf:259:LEU:HB2	2.08	0.52
13:Ch:272:TYR:HB3	13:Ch:275:ILE:HD11	1.92	0.52
12:De:35:THR:HG23	12:De:37:HIS:NE2	2.24	0.52
12:Dg:73:MET:HE2	12:Dg:90:PHE:HD2	1.75	0.52
1:0I:218:VAL:HG12	1:0I:255:LYS:HB3	1.91	0.52
1:0I:341:VAL:HG22	1:0I:379:CYS:SG	2.49	0.52
1:0A:85:LEU:HA	1:0A:88:LEU:HD12	1.92	0.52
1:0B:149:LEU:HD22	1:0B:163:VAL:HG13	1.90	0.52
1:0B:198:THR:HB	1:0B:201:LEU:HG	1.91	0.52
1:0C:286:ALA:O	1:0C:290:VAL:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0G:262:PHE:CD1	1:0G:263:PRO:HD2	2.44	0.52
1:0L:173:VAL:HG22	1:0L:210:ALA:HB2	1.91	0.52
1:0N:206:VAL:HG21	1:0N:243:LEU:HD22	1.92	0.52
1:0S:316:ALA:O	1:0S:320:ILE:HG23	2.09	0.52
1:0T:98:PHE:CZ	12:Dc:406:MET:HE1	2.44	0.52
1:0U:108:ARG:NH2	1:0U:144:ALA:HB1	2.24	0.52
1:0Y:240:SER:HB3	1:0Y:243:LEU:HG	1.92	0.52
1:0Y:297:ALA:HA	1:0Y:300:ASP:OD2	2.10	0.52
1:1A:168:ALA:H	1:1A:171:LEU:HD12	1.75	0.52
2:1G:10:ALA:O	2:1G:14:VAL:HG22	2.08	0.52
3:1H:829:GLU:HG3	3:1H:866:TRP:HE1	1.73	0.52
3:1I:821:LYS:HA	3:1I:824:VAL:HG12	1.90	0.52
4:1K:27:ALA:HB3	4:1K:57:TRP:NE1	2.24	0.52
5:1M:379:MET:HB2	5:1M:467:GLU:HG2	1.92	0.52
5:1M:518:LEU:CB	13:1f:417:GLU:OE1	2.53	0.52
5:1M:540:THR:HB	13:1f:160:ASP:O	2.09	0.52
7:1O:195:PRO:HA	7:1O:198:VAL:HG12	1.91	0.52
7:1O:976:VAL:HG21	7:1O:982:VAL:HG22	1.91	0.52
10:1R:421:THR:HB	12:Aa:94:GLN:HE22	1.74	0.52
13:1d:272:TYR:HB3	13:1d:275:ILE:HD11	1.92	0.52
12:1e:361:LEU:HD23	14:2F:12:LEU:O	2.09	0.52
13:1h:272:TYR:HB3	13:1h:275:ILE:HD11	1.92	0.52
14:2F:41:TRP:HZ3	12:Da:92:PHE:CZ	2.28	0.52
14:2G:161:VAL:HG11	12:Ae:224:ASP:HA	1.91	0.52
15:2H:174:UNK:O	13:7h:372:GLN:HG2	2.09	0.52
12:2a:186:THR:HA	12:2a:189:VAL:HG12	1.92	0.52
12:2c:232:VAL:HG21	12:2c:300:MET:SD	2.49	0.52
30:3G:544:LEU:HD21	13:7h:112:LYS:NZ	2.24	0.52
31:3H:158:VAL:HB	31:3H:159:PRO:HD3	1.91	0.52
34:3M:202:ALA:O	34:3M:206:GLN:HG3	2.09	0.52
34:3P:462:GLU:O	34:3P:465:LYS:HG2	2.10	0.52
34:3Q:254:MET:SD	34:3Q:257:LYS:HE2	2.50	0.52
34:3R:352:LEU:HD21	34:3R:378:SER:HB2	1.91	0.52
34:3R:507:VAL:HG12	34:3W:460:ARG:NH1	2.25	0.52
34:3R:507:VAL:HG22	34:3W:463:HIS:NE2	2.24	0.52
34:3T:381:ASN:O	34:3T:385:GLU:HG2	2.10	0.52
34:3U:305:CYS:HB3	34:3U:426:LEU:HD22	1.89	0.52
34:3Y:254:MET:HG3	34:3Y:481:LEU:HD11	1.90	0.52
13:3b:103:PHE:HD2	13:3b:413:MET:HE1	1.73	0.52
13:3b:328:VAL:O	13:3b:332:VAL:HG12	2.10	0.52
13:3f:272:TYR:HB3	13:3f:275:ILE:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3f:328:VAL:O	13:3f:332:VAL:HG12	2.10	0.52
34:4A:266:HIS:O	34:4A:270:ILE:HG13	2.08	0.52
35:4C:290:VAL:HB	35:4C:322:SER:OG	2.10	0.52
37:4E:570:LEU:O	37:4E:574:LEU:CA	2.58	0.52
37:4E:581:LEU:CA	37:4E:581:LEU:HB2	2.21	0.52
37:4E:584:ALA:N	43:5L:32:LEU:O	2.42	0.52
37:4E:1742:LYS:C	37:4E:1744:GLU:N	2.67	0.52
37:4G:1075:VAL:HG11	37:4G:1352:PRO:HG3	1.91	0.52
37:4G:1144:LEU:HD23	37:4G:1156:LEU:HD13	1.92	0.52
37:4G:1384:ALA:H	37:4G:1458:PRO:HD3	1.72	0.52
37:4H:603:ASP:HA	37:4H:786:GLN:NE2	2.23	0.52
37:4H:972:PHE:CD2	37:4H:972:PHE:C	2.88	0.52
37:4H:1130:ALA:HB1	38:4M:44:LEU:N	2.25	0.52
37:4H:1324:THR:O	37:4H:1331:TRP:HA	2.09	0.52
37:4H:1335:MET:CB	37:4H:1338:PHE:H	2.22	0.52
38:4N:38:VAL:O	38:4N:41:LYS:N	2.41	0.52
40:4T:213:LEU:HD13	40:4T:221:GLN:HB2	1.90	0.52
40:4T:427:SER:HB2	40:4T:455:THR:CG2	2.40	0.52
40:4T:501:ARG:HB2	44:5P:34:LYS:HG3	1.90	0.52
40:4V:478:LEU:HD11	40:4V:487:LEU:HD21	1.90	0.52
41:4X:22:THR:HA	41:4X:36:GLN:HA	1.92	0.52
43:5J:75:LEU:O	43:5J:79:VAL:HG23	2.10	0.52
43:5J:138:HIS:O	43:5J:142:TYR:HD2	1.92	0.52
44:5Q:114:THR:O	44:5Q:119:LYS:HD2	2.10	0.52
12:5a:232:VAL:HG22	12:5a:270:PHE:HB2	1.90	0.52
12:5g:134:GLN:HA	12:5g:165:LEU:O	2.09	0.52
47:6B:397:GLN:HB3	48:6E:340:TYR:O	2.09	0.52
47:6B:713:VAL:HG11	47:6B:770:PHE:CE2	2.45	0.52
48:6E:169:SER:HA	48:6E:192:ASP:HB3	1.91	0.52
49:6G:125:ASP:HB3	49:6G:128:LYS:HE3	1.92	0.52
49:6G:140:ASP:OD1	49:6G:141:GLY:N	2.42	0.52
49:6I:125:ASP:HB3	49:6I:128:LYS:HE3	1.92	0.52
49:6I:367:THR:CG2	49:6I:387:LYS:H	2.22	0.52
49:6J:195:ILE:HB	49:6J:210:PHE:HB2	1.91	0.52
50:6K:223:PHE:HE2	50:6K:397:LEU:HD13	1.75	0.52
50:6L:152:ALA:HB2	50:6L:180:PRO:HD2	1.91	0.52
51:6N:1592:VAL:HG21	51:6N:1801:LEU:HD11	1.92	0.52
12:7a:206:ALA:O	12:7a:210:ILE:HG23	2.08	0.52
12:8a:207:LEU:CD1	12:8a:229:ILE:HD11	2.38	0.52
12:8e:86:ARG:HG3	12:8e:88:ASP:OD1	2.09	0.52
12:8g:101:TRP:HD1	12:8g:145:SER:OG	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:8h:328:VAL:O	13:8h:332:VAL:HG12	2.10	0.52
13:9b:272:TYR:HB3	13:9b:275:ILE:HD11	1.92	0.52
12:9c:232:VAL:HG21	12:9c:300:MET:SD	2.49	0.52
13:9d:403:ALA:HB2	12:9e:344:TRP:CZ3	2.39	0.52
12:9e:161:ASP:O	12:9e:251:ARG:NH2	2.43	0.52
12:Ac:272:PRO:HD3	12:Ac:364:SER:HA	1.90	0.52
12:Ag:232:VAL:HG21	12:Ag:300:MET:SD	2.49	0.52
13:Ah:313:MET:HE2	13:Ah:382:THR:HG22	1.90	0.52
12:Bc:272:PRO:HD3	12:Bc:364:SER:HA	1.91	0.52
12:Be:84:ILE:HA	12:Ce:281:TYR:OH	2.10	0.52
13:Cd:272:TYR:HB3	13:Cd:275:ILE:HD11	1.92	0.52
13:Cf:272:TYR:HB3	13:Cf:275:ILE:HD11	1.92	0.52
13:Ch:328:VAL:O	13:Ch:332:VAL:HG12	2.10	0.52
12:De:201:VAL:HG22	12:De:266:PHE:O	2.09	0.52
12:De:248:ALA:HA	12:De:252:LYS:HD2	1.90	0.52
13:Dh:103:PHE:HD2	13:Dh:413:MET:HE1	1.73	0.52
1:0H:47:ARG:HG3	1:0H:84:ILE:HG12	1.92	0.52
1:0D:394:ASP:N	1:0D:394:ASP:OD2	2.43	0.52
1:0P:27:MET:SD	1:0Q:6:VAL:HG22	2.50	0.52
1:0Q:54:VAL:HB	1:0Q:57:ILE:HD12	1.90	0.52
1:0S:33:ASN:O	1:0S:37:LEU:HG	2.09	0.52
1:0U:133:CYS:HB3	1:0U:141:VAL:HG12	1.91	0.52
3:1I:829:GLU:HG3	3:1I:866:TRP:HE1	1.73	0.52
4:1J:27:ALA:HB3	4:1J:57:TRP:NE1	2.24	0.52
4:1K:112:ARG:HD3	4:1K:151:GLY:HA2	1.92	0.52
5:1M:521:LYS:HD2	5:1M:523:TRP:CZ2	2.45	0.52
6:1N:2601:SER:O	6:1N:2604:THR:OG1	2.27	0.52
8:1P:979:VAL:HG23	8:1P:980:ARG:HG3	1.92	0.52
10:1S:170:PRO:O	13:Af:393:HIS:CE1	2.63	0.52
13:1f:328:VAL:O	13:1f:332:VAL:HG12	2.10	0.52
24:2U:189:ILE:CG2	24:2U:193:GLN:HE22	2.22	0.52
12:2a:396:HIS:CD2	13:2b:263:PRO:HD3	2.44	0.52
13:2b:96:LYS:HB3	12:2c:129:CYS:SG	2.49	0.52
12:2e:207:LEU:HB3	12:2e:225:LEU:HD22	1.90	0.52
30:3F:301:VAL:HG11	13:6f:428:LEU:HD13	1.92	0.52
30:3G:538:LEU:HD11	13:7h:117:LEU:HD13	1.91	0.52
34:3M:327:VAL:O	34:3M:400:LEU:HD11	2.09	0.52
34:3R:378:SER:HA	34:3R:381:ASN:OD1	2.10	0.52
34:3S:77:GLN:HB3	34:3S:317:ARG:HH21	1.74	0.52
34:3U:86:GLN:OE1	34:3U:408:ARG:HD2	2.09	0.52
34:3V:270:ILE:HA	34:3V:273:ARG:NE	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3V:279:ASN:O	34:3V:283:THR:HG23	2.10	0.52
12:3a:112:LEU:O	12:3a:116:VAL:HG23	2.09	0.52
12:3c:232:VAL:HG21	12:3c:300:MET:SD	2.49	0.52
13:3d:328:VAL:O	13:3d:332:VAL:HG12	2.10	0.52
34:4A:38:HIS:NE2	34:4A:452:HIS:HE1	2.07	0.52
35:4C:455:TRP:HE3	35:4C:470:ASN:HB3	1.75	0.52
36:4D:13:LEU:HB3	36:4D:103:LEU:HD13	1.90	0.52
37:4E:574:LEU:HA	43:5L:30:ARG:CZ	2.39	0.52
37:4E:589:PRO:N	43:5L:17:SER:C	2.67	0.52
37:4F:537:LEU:O	37:4F:540:VAL:HB	2.09	0.52
37:4F:784:LEU:O	37:4F:788:LEU:HD12	2.08	0.52
37:4G:510:HIS:HA	37:4G:543:ASN:ND2	2.25	0.52
37:4G:1074:GLN:HE22	38:4L:42:ILE:N	2.07	0.52
37:4G:1162:VAL:HB	37:4G:1299:ARG:NH1	2.24	0.52
37:4H:951:ASN:O	37:4H:952:ASP:C	2.52	0.52
37:4H:1144:LEU:CB	37:4H:1156:LEU:O	2.57	0.52
37:4H:1324:THR:CA	38:4M:25:PRO:HD2	2.38	0.52
37:4H:1378:LEU:HD13	37:4H:1399:LEU:HD11	1.92	0.52
38:4I:39:HIS:O	38:4I:40:LYS:C	2.52	0.52
38:4I:61:LEU:HB3	38:4I:84:LEU:HD21	1.91	0.52
38:4M:81:ALA:O	38:4M:85:LEU:HG	2.09	0.52
38:4O:60:VAL:HG12	38:4O:84:LEU:HD23	1.89	0.52
40:4T:501:ARG:HD2	44:5P:34:LYS:HD2	1.90	0.52
41:4Z:22:THR:HA	41:4Z:36:GLN:HA	1.92	0.52
12:4g:171:PRO:HB3	12:4g:181:GLU:CG	2.40	0.52
41:5A:21:GLY:C	43:5L:191:LYS:CB	2.82	0.52
41:5A:162:PHE:N	41:5A:164:GLY:CA	2.73	0.52
42:5H:91:TYR:CD2	43:5L:42:TYR:HB3	2.45	0.52
42:5H:126:ALA:O	42:5H:130:ALA:CB	2.58	0.52
42:5H:141:GLN:HA	43:5L:47:LYS:HZ3	1.74	0.52
43:5L:60:GLN:O	43:5L:64:THR:HG23	2.08	0.52
44:5S:122:GLU:O	44:5S:125:VAL:HG12	2.09	0.52
47:6A:713:VAL:HG11	47:6A:770:PHE:CE2	2.45	0.52
47:6B:227:GLU:OE1	47:6B:230:HIS:HD2	1.92	0.52
3:6D:55:LEU:HD22	3:6D:109:LEU:HD11	1.90	0.52
3:6D:988:TRP:O	3:6D:991:ILE:HB	2.09	0.52
48:6F:202:ARG:HH21	49:6H:464:ASN:HA	1.74	0.52
48:6F:1027:PHE:HE2	50:6L:398:LEU:HD13	1.75	0.52
49:6J:367:THR:CG2	49:6J:387:LYS:H	2.22	0.52
51:6M:1244:LEU:HG	51:6M:1245:GLY:N	2.22	0.52
51:6N:1244:LEU:HG	51:6N:1245:GLY:N	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6N:2289:VAL:HG12	51:6N:2291:PRO:HD3	1.91	0.52
12:6a:68:LEU:HD11	12:6a:108:GLU:HB3	1.91	0.52
12:6g:139:LEU:HD12	12:6g:170:VAL:HG22	1.90	0.52
12:7g:337:ASN:HB3	12:7g:340:TYR:HD2	1.74	0.52
12:8c:134:GLN:HA	12:8c:165:LEU:O	2.09	0.52
12:8e:138:SER:OG	12:8e:169:VAL:HB	2.10	0.52
12:8g:114:ASP:OD1	12:8g:115:SER:N	2.42	0.52
12:9e:1:MET:HG2	12:9e:129:CYS:SG	2.50	0.52
12:9e:66:MET:HG2	12:9e:147:MET:SD	2.49	0.52
13:9f:222:PRO:O	12:9g:322:SER:OG	2.27	0.52
13:Ad:328:VAL:O	13:Ad:332:VAL:HG12	2.10	0.52
12:Ae:107:THR:O	12:Ae:111:GLU:HG3	2.10	0.52
12:Ag:73:MET:HE2	12:Ag:90:PHE:HD2	1.75	0.52
12:Be:396:HIS:CD2	13:Bf:263:PRO:HD3	2.44	0.52
12:Ca:177:ASP:OD2	13:Cb:248:LEU:HD21	2.10	0.52
13:Cb:272:TYR:HB3	13:Cb:275:ILE:HD11	1.92	0.52
13:Cb:328:VAL:O	13:Cb:332:VAL:HG12	2.10	0.52
12:Cc:68:LEU:HD21	12:Cc:147:MET:SD	2.50	0.52
12:Cc:267:MET:HE1	12:Cc:305:PRO:HG3	1.91	0.52
13:Cd:328:VAL:O	13:Cd:332:VAL:HG12	2.10	0.52
12:Da:222:PHE:HE2	13:Db:248:LEU:HG	1.75	0.52
13:Df:272:TYR:HB3	13:Df:275:ILE:HD11	1.92	0.52
1:0A:34:ILE:HG21	1:0A:71:TYR:CB	2.40	0.52
1:0B:297:ALA:HA	1:0B:300:ASP:OD2	2.10	0.52
1:0D:275:VAL:HG13	1:0D:289:VAL:HG11	1.90	0.52
1:0E:7:LEU:HD13	26:2Z:43:UNK:HA	1.91	0.52
1:0N:344:LEU:HD23	1:0N:347:GLU:OE2	2.10	0.52
1:0P:144:ALA:O	1:0P:148:THR:HG23	2.09	0.52
1:0Q:218:VAL:HG12	1:0Q:255:LYS:HB3	1.91	0.52
1:0T:34:ILE:HD13	1:0T:71:TYR:HB2	1.91	0.52
1:0Y:149:LEU:HD22	1:0Y:163:VAL:HG13	1.90	0.52
1:0Z:21:VAL:HA	1:0Z:24:VAL:HG22	1.92	0.52
1:1A:273:THR:O	1:1A:277:GLU:HG2	2.09	0.52
1:1B:276:ARG:HA	1:1B:316:ALA:HB2	1.92	0.52
1:1B:360:LEU:HD22	1:1B:374:VAL:HG13	1.92	0.52
2:1F:193:VAL:HG11	2:1F:231:ASN:HB3	1.91	0.52
2:1G:147:MET:CE	2:1G:183:ILE:HG12	2.39	0.52
3:1H:187:SER:OG	3:1H:211:ALA:O	2.20	0.52
3:1H:265:TRP:CH2	47:6A:350:ARG:HG3	2.44	0.52
4:1J:112:ARG:HD3	4:1J:151:GLY:HA2	1.92	0.52
4:1K:250:LEU:HD13	3:6D:923:TYR:CE2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1L:379:MET:HB2	5:1L:467:GLU:HG2	1.91	0.52
5:1L:521:LYS:HD2	5:1L:523:TRP:CZ2	2.45	0.52
6:1N:324:ARG:HA	6:1N:327:VAL:HG22	1.92	0.52
6:1N:788:LEU:HD23	6:1N:788:LEU:H	1.74	0.52
7:1O:1476:LEU:HA	7:1O:1479:VAL:HG12	1.91	0.52
7:1O:1647:VAL:HG11	7:1O:1730:VAL:HG13	1.91	0.52
10:1R:181:SER:HB2	32:3J:47:GLU:O	2.10	0.52
14:2G:122:ALA:HB1	14:2G:125:THR:CG2	2.33	0.52
24:2T:133:SER:O	24:2T:137:THR:HA	2.08	0.52
12:2g:101:TRP:HD1	12:2g:145:SER:OG	1.91	0.52
29:3E:1191:TRP:HZ2	13:5d:112:LYS:HE3	1.73	0.52
30:3G:725:TYR:HH	13:6b:152:LEU:HD11	1.74	0.52
31:3H:171:TRP:O	31:3H:175:ARG:HG2	2.10	0.52
32:3K:70:ASN:ND2	32:3K:75:GLY:HA2	2.25	0.52
33:3L:197:LEU:HD23	12:7e:390:ARG:HG3	1.90	0.52
34:3S:302:LEU:O	34:3S:306:VAL:HG23	2.10	0.52
34:3W:91:GLU:HG2	34:3Y:33:GLN:HB3	1.90	0.52
34:3Z:461:ALA:O	34:3Z:465:LYS:HG2	2.10	0.52
12:3a:404:ASP:HB3	12:3a:407:GLU:OE1	2.09	0.52
13:3b:212:ILE:O	13:3b:216:SER:OG	2.25	0.52
12:3g:341:PHE:HB3	12:3g:348:ASN:ND2	2.24	0.52
34:4A:266:HIS:NE2	34:4A:270:ILE:HD11	2.25	0.52
34:4A:279:ASN:O	34:4A:283:THR:HG23	2.10	0.52
37:4E:757:LEU:HD22	37:4E:799:SER:OG	2.10	0.52
37:4F:540:VAL:HA	38:4N:69:CYS:SG	2.49	0.52
37:4F:1074:GLN:CA	38:4N:41:LYS:CG	2.85	0.52
37:4F:1332:SER:C	38:4N:27:ALA:N	2.68	0.52
37:4G:826:LEU:HA	38:4L:82:TYR:OH	2.10	0.52
37:4G:1323:ILE:CG1	38:4L:26:GLU:CD	2.73	0.52
37:4H:1074:GLN:CD	38:4M:42:ILE:HD12	2.34	0.52
37:4H:1323:ILE:HG22	37:4H:1324:THR:C	2.35	0.52
37:4H:1466:TYR:OH	37:4H:1469:GLU:HG3	2.10	0.52
38:4I:42:ILE:O	38:4I:45:ALA:O	2.27	0.52
38:4M:39:HIS:O	38:4M:40:LYS:C	2.52	0.52
38:4N:39:HIS:O	38:4N:40:LYS:C	2.52	0.52
40:4U:255:VAL:HB	40:4U:258:LEU:HD23	1.92	0.52
12:4e:60:VAL:HB	12:4e:86:ARG:CZ	2.39	0.52
12:4e:318:ARG:NH1	12:4e:358:PRO:HB3	2.23	0.52
42:5H:89:ALA:C	42:5H:90:ALA:O	2.51	0.52
42:5H:91:TYR:CG	43:5L:42:TYR:N	2.77	0.52
42:5H:95:GLU:HB2	42:5H:134:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5L:22:HIS:CE1	43:5L:24:LYS:HE2	2.45	0.52
44:5Q:89:LEU:HD23	44:5Q:146:VAL:HG13	1.92	0.52
44:5U:91:GLU:O	44:5U:95:VAL:HG23	2.09	0.52
13:5b:328:VAL:O	13:5b:332:VAL:HG12	2.10	0.52
12:5e:101:TRP:HD1	12:5e:145:SER:OG	1.90	0.52
47:6A:102:GLY:O	47:6A:106:LYS:HG3	2.09	0.52
47:6A:790:ASP:N	47:6A:790:ASP:OD2	2.42	0.52
47:6A:1647:GLN:NE2	47:6A:1672:LEU:HA	2.20	0.52
47:6B:790:ASP:N	47:6B:790:ASP:OD2	2.42	0.52
47:6B:1797:SER:O	47:6B:1798:ASN:O	2.27	0.52
3:6D:645:LEU:HB3	3:6D:684:HIS:CE1	2.44	0.52
3:6D:1010:LEU:CB	48:6E:353:ILE:HG12	2.40	0.52
48:6F:650:GLU:HB3	48:6F:653:TRP:CD1	2.44	0.52
49:6H:125:ASP:HB3	49:6H:128:LYS:HE3	1.92	0.52
49:6H:140:ASP:OD1	49:6H:141:GLY:N	2.42	0.52
50:6K:335:MET:HA	50:6K:361:ASN:ND2	2.24	0.52
50:6L:223:PHE:HE2	50:6L:397:LEU:HD13	1.75	0.52
50:6L:335:MET:HA	50:6L:361:ASN:ND2	2.24	0.52
51:6M:1592:VAL:HG21	51:6M:1801:LEU:HD11	1.92	0.52
13:6d:96:LYS:HA	12:6e:1:MET:HE1	1.92	0.52
12:7e:207:LEU:HB3	12:7e:225:LEU:HD22	1.90	0.52
12:8a:271:THR:HG22	12:8a:365:ALA:O	2.08	0.52
12:8a:376:GLU:O	12:8a:379:LYS:HG3	2.09	0.52
12:8c:25:SER:OG	12:8c:30:ILE:O	2.28	0.52
12:8e:172:SER:OG	12:8e:175:VAL:O	2.27	0.52
12:8g:72:THR:O	12:8g:76:VAL:HG23	2.10	0.52
12:8g:111:GLU:OE2	12:8g:112:LEU:HG	2.10	0.52
12:9g:272:PRO:HD3	12:9g:364:SER:HA	1.91	0.52
12:Ae:6:HIS:HD2	12:Ae:134:GLN:HG3	1.75	0.52
13:Af:313:MET:HE2	13:Af:382:THR:HG22	1.90	0.52
12:Ag:337:ASN:HB3	12:Ag:340:TYR:HD2	1.75	0.52
12:Ba:248:ALA:CB	12:Ba:350:LYS:HZ1	2.23	0.52
12:Bc:66:MET:SD	12:Bc:147:MET:HE2	2.50	0.52
12:Be:6:HIS:HD2	12:Be:134:GLN:HG3	1.75	0.52
12:Be:18:ALA:HB2	12:Be:76:VAL:HG23	1.90	0.52
12:Be:176:SER:OG	13:Bf:349:THR:HB	2.10	0.52
13:Db:272:TYR:HB3	13:Db:275:ILE:HD11	1.92	0.52
13:Dd:272:TYR:HB3	13:Dd:275:ILE:HD11	1.92	0.52
13:Dh:272:TYR:HB3	13:Dh:275:ILE:HD11	1.92	0.52
1:0J:265:GLU:HA	1:0J:268:LYS:HE2	1.92	0.52
1:0W:169:VAL:H	1:0W:170:PRO:HD2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0A:202:ALA:O	1:0A:206:VAL:HG23	2.10	0.52
1:0A:269:LYS:HB2	1:0A:309:ASN:HB2	1.92	0.52
1:0B:320:ILE:HB	1:0B:327:LEU:HD13	1.92	0.52
1:0E:108:ARG:HD3	1:0E:147:TRP:CD1	2.44	0.52
1:0L:70:ASN:OD1	1:0L:112:ARG:NH2	2.42	0.52
1:0L:176:VAL:O	1:0L:184:LYS:NZ	2.39	0.52
1:0O:80:VAL:HG22	1:0O:85:LEU:HD11	1.90	0.52
1:0P:47:ARG:HG3	1:0P:84:ILE:HG12	1.92	0.52
1:0Q:185:ARG:HD3	1:0Q:224:LYS:HD2	1.92	0.52
1:0Q:198:THR:HB	1:0Q:201:LEU:HG	1.92	0.52
1:0T:257:LEU:HD21	1:0T:294:GLY:HA2	1.92	0.52
1:0T:361:GLY:HA2	1:0T:403:ALA:HA	1.92	0.52
1:0U:17:ARG:O	1:0U:21:VAL:HG22	2.09	0.52
1:0U:262:PHE:CD1	1:0U:263:PRO:HD2	2.45	0.52
1:1A:48:PRO:HA	1:1A:51:LEU:HD12	1.91	0.52
1:1B:214:LEU:HB3	1:1B:229:VAL:HG21	1.92	0.52
1:1C:248:VAL:HG12	1:1C:253:PHE:CZ	2.45	0.52
1:1C:342:SER:O	1:1C:346:GLU:HG2	2.10	0.52
2:1G:5:THR:O	2:1G:9:THR:HG23	2.09	0.52
3:1H:525:ASN:HB2	47:6A:351:ARG:NH1	2.25	0.52
10:1R:294:VAL:HG21	31:3H:129:GLU:HG2	1.91	0.52
12:1c:267:MET:HE1	12:1c:305:PRO:HG3	1.92	0.52
14:2G:32:LYS:HG3	14:2G:36:GLU:HG3	1.90	0.52
24:2U:117:GLU:O	24:2U:121:VAL:HG23	2.09	0.52
24:2U:128:VAL:HG21	12:De:336:LYS:HE3	1.91	0.52
12:2c:55:THR:HG23	12:3c:282:ARG:O	2.10	0.52
12:2c:104:GLY:O	12:2c:147:MET:HG3	2.10	0.52
13:2f:2:ARG:HH21	13:2f:243:ARG:HA	1.75	0.52
12:2g:55:THR:HG23	12:3g:283:ALA:HA	1.92	0.52
30:3G:670:LYS:HG3	13:7d:433:GLU:OE2	2.10	0.52
34:3M:75:GLN:HA	34:3M:415:TYR:HE2	1.74	0.52
34:3T:384:ASN:HA	34:3T:387:VAL:HG12	1.91	0.52
34:3W:282:GLN:NE2	34:3W:283:THR:HG23	2.25	0.52
34:3Z:352:LEU:HD22	34:3Z:356:PHE:CE2	2.45	0.52
12:3a:318:ARG:NH1	12:3a:358:PRO:HB3	2.25	0.52
13:3f:212:ILE:O	13:3f:216:SER:OG	2.25	0.52
13:3h:328:VAL:O	13:3h:332:VAL:HG12	2.10	0.52
34:4B:85:TYR:O	34:4B:89:ILE:HG12	2.09	0.52
36:4D:222:TYR:CD2	36:4D:222:TYR:C	2.87	0.52
37:4E:729:ARG:O	37:4E:733:LEU:HG	2.09	0.52
37:4F:422:TRP:CE2	37:4F:426:VAL:HG21	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:854:TYR:CE1	38:4N:82:TYR:HE2	2.26	0.52
37:4F:958:LEU:CD1	37:4F:972:PHE:HB3	2.39	0.52
37:4F:1083:ILE:O	38:4N:38:VAL:HG22	2.09	0.52
37:4G:529:VAL:HG21	38:4I:66:GLN:NE2	2.18	0.52
37:4G:1322:ARG:CB	38:4L:25:PRO:HG2	2.32	0.52
37:4G:1378:LEU:HD13	37:4G:1399:LEU:HD11	1.91	0.52
37:4H:1287:LEU:HD23	39:4R:27:GLU:HB2	1.90	0.52
38:4J:39:HIS:O	38:4J:40:LYS:C	2.52	0.52
38:4N:42:ILE:O	38:4N:45:ALA:O	2.27	0.52
38:4N:82:TYR:N	38:4N:82:TYR:HD1	2.08	0.52
40:4T:255:VAL:HB	40:4T:258:LEU:HD23	1.92	0.52
40:4U:213:LEU:HD13	40:4U:221:GLN:HB2	1.90	0.52
40:4U:501:ARG:HB2	44:5R:34:LYS:HG3	1.90	0.52
40:4V:255:VAL:HB	40:4V:258:LEU:HD23	1.92	0.52
41:4Y:22:THR:HA	41:4Y:36:GLN:HA	1.92	0.52
42:5H:91:TYR:HE2	43:5L:39:LEU:O	1.93	0.52
42:5H:126:ALA:O	42:5H:130:ALA:HB2	2.10	0.52
42:5H:127:ALA:CA	42:5H:130:ALA:HB3	2.39	0.52
42:5H:137:TYR:HB3	43:5L:48:THR:N	2.21	0.52
43:5I:22:HIS:CE1	43:5I:24:LYS:HE2	2.45	0.52
43:5I:75:LEU:O	43:5I:79:VAL:HG23	2.10	0.52
43:5L:75:LEU:O	43:5L:79:VAL:HG23	2.10	0.52
43:5L:91:LEU:HD22	43:5L:95:ARG:HB3	1.92	0.52
43:5L:134:SER:O	43:5L:137:ARG:HB3	2.10	0.52
47:6B:102:GLY:O	47:6B:106:LYS:HG3	2.09	0.52
3:6D:19:LEU:HD11	3:6D:38:ALA:CB	2.40	0.52
3:6D:981:LYS:HD3	3:6D:1020:LEU:HD13	1.92	0.52
48:6E:798:LEU:HD23	49:6I:13:GLU:OE2	2.09	0.52
48:6E:810:LEU:CG	49:6G:3:VAL:HG11	2.40	0.52
48:6E:858:TRP:CE2	48:6E:863:CYS:HB2	2.45	0.52
48:6F:858:TRP:CE2	48:6F:863:CYS:HB2	2.45	0.52
48:6F:958:MET:HE2	50:6L:446:ILE:HA	1.90	0.52
49:6I:252:GLU:HG3	49:6I:415:HIS:CE1	2.45	0.52
49:6J:252:GLU:HG3	49:6J:415:HIS:CE1	2.45	0.52
50:6L:594:GLU:CG	50:6L:596:GLU:HG2	2.39	0.52
13:6d:407:TRP:CG	12:6e:255:VAL:HG23	2.44	0.52
13:7f:255:PHE:O	13:7f:259:LEU:HB2	2.08	0.52
12:8a:161:ASP:N	12:8a:161:ASP:OD1	2.42	0.52
12:8c:239:CYS:SG	12:8c:316:LEU:HD11	2.50	0.52
13:8d:56:THR:HA	13:9d:285:GLN:HG2	1.92	0.52
13:8d:328:VAL:O	13:8d:332:VAL:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8e:153:SER:O	12:8e:157:GLU:HG2	2.10	0.52
13:8f:328:VAL:O	13:8f:332:VAL:HG12	2.10	0.52
12:9a:377:MET:O	12:9a:381:VAL:HG23	2.10	0.52
12:9c:20:PHE:HA	12:9c:230:SER:HB2	1.90	0.52
12:Ae:64:ILE:HD13	12:Ae:120:VAL:HG22	1.90	0.52
13:Af:328:VAL:O	13:Af:332:VAL:HG12	2.10	0.52
13:Ah:212:ILE:O	13:Ah:216:SER:OG	2.25	0.52
12:Ba:117:LEU:HA	12:Ba:120:VAL:HG22	1.90	0.52
12:Bc:151:LEU:O	12:Bc:155:ILE:HG12	2.08	0.52
12:Be:278:SER:C	12:Be:281:TYR:HB2	2.34	0.52
13:Cb:255:PHE:O	13:Cb:259:LEU:HB2	2.08	0.52
13:Cd:255:PHE:O	13:Cd:259:LEU:HB2	2.08	0.52
13:Cf:328:VAL:O	13:Cf:332:VAL:HG12	2.10	0.52
12:Dg:139:LEU:HD12	12:Dg:170:VAL:HG22	1.92	0.52
1:0J:196:LYS:HB3	1:0J:235:GLN:HG3	1.91	0.52
1:0J:350:ASP:OD1	1:0J:351:HIS:N	2.42	0.52
1:0J:367:THR:HB	1:0J:370:HIS:CG	2.45	0.52
1:0C:316:ALA:O	1:0C:320:ILE:HG13	2.08	0.52
1:0F:55:PRO:HB2	1:0F:96:ASN:HD21	1.74	0.52
1:0F:240:SER:HB3	1:0F:243:LEU:HG	1.91	0.52
1:0F:290:VAL:HG22	1:0F:295:VAL:HG21	1.90	0.52
1:0L:367:THR:HB	1:0L:370:HIS:CG	2.45	0.52
1:0P:44:ALA:O	1:0P:48:PRO:HD3	2.10	0.52
1:0X:24:VAL:HG13	1:0X:37:LEU:HD21	1.92	0.52
1:1A:143:GLU:OE2	5:1L:591:LEU:HD13	2.09	0.52
2:1F:8:LEU:HD13	13:Ah:422:ARG:NH2	2.18	0.52
2:1F:328:ALA:O	2:1F:331:LYS:HG3	2.10	0.52
3:1H:688:LEU:HD11	3:1H:695:THR:HG21	1.91	0.52
3:1I:186:ARG:HG2	3:1I:289:LEU:HD13	1.92	0.52
5:1M:384:VAL:HG11	5:1M:390:ALA:HB2	1.92	0.52
6:1N:2548:HIS:NE2	6:1N:2594:GLY:HA2	2.25	0.52
7:1O:2632:LEU:HD11	7:1O:2671:ALA:HB2	1.92	0.52
10:1R:58:THR:HG22	13:Ad:339:ARG:NH2	2.21	0.52
13:1b:328:VAL:O	13:1b:332:VAL:HG12	2.10	0.52
12:1e:222:PHE:CZ	13:1f:325:PRO:HB3	2.45	0.52
12:1g:21:TRP:CZ3	12:1g:61:PRO:HB3	2.45	0.52
14:2F:32:LYS:HG3	14:2F:36:GLU:HG3	1.90	0.52
12:2a:86:ARG:HA	12:3a:281:TYR:CD1	2.44	0.52
13:2b:2:ARG:HH21	13:2b:243:ARG:HA	1.75	0.52
12:2c:272:PRO:HD3	12:2c:364:SER:HA	1.92	0.52
13:2d:2:ARG:HH21	13:2d:243:ARG:HA	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2e:210:ILE:O	12:2e:214:THR:HG22	2.09	0.52
12:2e:248:ALA:HA	12:2e:252:LYS:HD2	1.91	0.52
12:2e:396:HIS:NE2	13:2f:261:PRO:O	2.39	0.52
12:2g:207:LEU:O	12:2g:210:ILE:HG22	2.09	0.52
13:2h:2:ARG:HH21	13:2h:243:ARG:HA	1.75	0.52
31:3I:286:LEU:HD11	13:9h:400:ALA:CB	2.39	0.52
32:3K:256:THR:O	32:3K:260:THR:HG23	2.10	0.52
34:3P:87:ASN:HA	34:3P:90:GLU:OE1	2.09	0.52
34:3R:122:GLN:HA	34:3R:125:ARG:NE	2.21	0.52
34:3R:289:ALA:HB2	34:4B:203:ALA:HB1	1.91	0.52
34:3V:323:ALA:HB1	34:3V:407:MET:HE2	1.92	0.52
34:3W:312:TRP:CH2	34:3W:419:LEU:HB2	2.44	0.52
34:3Z:263:LYS:HA	34:3Z:263:LYS:HE3	1.92	0.52
12:3e:253:LEU:HD13	12:3e:316:LEU:HD11	1.92	0.52
12:3e:274:THR:HG22	12:3e:282:ARG:HD3	1.92	0.52
34:4B:282:GLN:NE2	34:4B:283:THR:HG23	2.25	0.52
35:4C:557:GLY:O	35:4C:733:ALA:HA	2.09	0.52
35:4C:836:VAL:HG11	35:4C:870:VAL:HG11	1.91	0.52
35:4C:1056:PHE:HZ	35:4C:1087:ILE:HG12	1.75	0.52
36:4D:24:GLN:NE2	36:4D:140:ARG:HD3	2.25	0.52
36:4D:175:PRO:HG3	36:4D:213:TRP:CD2	2.45	0.52
37:4F:935:ARG:HD3	38:4N:49:ILE:HG13	1.92	0.52
37:4F:970:SER:N	37:4F:1074:GLN:HB2	2.24	0.52
37:4F:1082:LEU:HD23	38:4N:42:ILE:CG1	2.38	0.52
37:4G:422:TRP:CE2	37:4G:426:VAL:HG21	2.45	0.52
37:4G:922:SER:CB	37:4G:935:ARG:HG2	2.40	0.52
37:4H:1074:GLN:NE2	38:4M:39:HIS:CD2	2.63	0.52
37:4H:1189:LEU:HD11	37:4H:1305:VAL:HG21	1.92	0.52
38:4I:47:ALA:HA	38:4I:50:ARG:CB	2.39	0.52
38:4J:53:LEU:HD12	38:4J:54:GLU:N	2.24	0.52
38:4L:39:HIS:O	38:4L:40:LYS:C	2.52	0.52
38:4M:40:LYS:CE	38:4M:44:LEU:HD12	2.40	0.52
38:4N:53:LEU:HD12	38:4N:54:GLU:N	2.24	0.52
38:4N:68:LEU:CD1	38:4N:80:LEU:HB2	2.31	0.52
39:4S:48:LEU:HD21	44:5U:128:MET:HB2	1.92	0.52
12:4a:60:VAL:CG1	12:4a:86:ARG:NE	2.70	0.52
12:4a:271:THR:HG22	12:4a:365:ALA:O	2.09	0.52
13:4b:328:VAL:O	13:4b:332:VAL:HG12	2.10	0.52
41:5B:144:HIS:H	41:5B:164:GLY:HA2	1.74	0.52
42:5H:91:TYR:CA	43:5L:41:ASP:HB3	2.40	0.52
12:5c:151:LEU:O	12:5c:155:ILE:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:227:GLU:OE1	47:6A:230:HIS:HD2	1.93	0.52
47:6A:595:ARG:HB3	47:6A:826:VAL:HG22	1.92	0.52
47:6A:838:ARG:HA	47:6A:853:HIS:CE1	2.45	0.52
47:6A:981:LYS:CA	47:6A:984:ILE:HG12	2.31	0.52
47:6A:1839:VAL:HG21	47:6A:1901:LEU:CD1	2.39	0.52
47:6B:409:ARG:CD	3:6D:1006:ASP:N	2.70	0.52
47:6B:595:ARG:HB3	47:6B:826:VAL:HG22	1.92	0.52
47:6B:838:ARG:HA	47:6B:853:HIS:CE1	2.45	0.52
3:6D:1036:GLN:HA	3:6D:1039:GLN:OE1	2.10	0.52
48:6F:896:ALA:HB2	48:6F:903:ILE:HG13	1.90	0.52
49:6G:195:ILE:HB	49:6G:210:PHE:HB2	1.91	0.52
49:6G:262:ASN:OD1	49:6G:262:ASN:N	2.33	0.52
49:6G:367:THR:CG2	49:6G:387:LYS:H	2.22	0.52
50:6K:152:ALA:HB2	50:6K:180:PRO:HD2	1.91	0.52
51:6N:2166:LEU:HG	51:6N:2289:VAL:HG22	1.92	0.52
12:6e:6:HIS:HD2	12:6e:134:GLN:HG3	1.75	0.52
12:6e:23:VAL:HA	12:6e:26:ASP:OD2	2.10	0.52
12:7a:313:ALA:O	12:7a:349:VAL:HA	2.10	0.52
12:7c:31:ASP:HB2	12:7c:32:PRO:HD2	1.92	0.52
12:8a:396:HIS:NE2	13:8b:262:TYR:HA	2.25	0.52
12:8c:337:ASN:HB3	12:8c:340:TYR:HD2	1.74	0.52
12:9a:274:THR:HG22	12:9a:282:ARG:HD3	1.92	0.52
13:9f:272:TYR:HB3	13:9f:275:ILE:HD11	1.92	0.52
12:Aa:64:ILE:HG12	12:Aa:119:VAL:HG23	1.91	0.52
12:Ca:86:ARG:HD2	12:Ca:89:ASN:CG	2.35	0.52
12:Ca:208:TYR:CZ	12:Ca:225:LEU:HD11	2.44	0.52
13:Cb:96:LYS:HB3	12:Cc:129:CYS:SG	2.50	0.52
12:Ce:207:LEU:HB3	12:Ce:225:LEU:HD22	1.91	0.52
13:Cf:407:TRP:HE1	12:Cg:258:ILE:HB	1.75	0.52
13:Ch:2:ARG:HH21	13:Ch:243:ARG:HA	1.75	0.52
1:0H:44:ALA:O	1:0H:48:PRO:HD3	2.10	0.52
1:0I:198:THR:HB	1:0I:201:LEU:HG	1.91	0.52
1:0I:355:ALA:O	1:0I:359:THR:HG23	2.09	0.52
44:5P:59:VAL:HG21	44:5P:67:ILE:HG23	1.92	0.52
1:0A:83:GLU:OE1	47:6B:117:LEU:HD12	2.10	0.52
1:0F:349:GLU:HB2	1:0F:352:LEU:HB3	1.92	0.52
1:0L:52:ASP:H	1:0L:58:GLN:NE2	2.03	0.52
1:0L:256:ILE:HG23	1:0L:271:SER:HB2	1.92	0.52
1:0O:70:ASN:HA	1:0O:113:HIS:CE1	2.44	0.52
1:0O:219:ILE:HG12	1:0O:255:LYS:HG2	1.91	0.52
1:0O:346:GLU:HG3	1:0O:347:GLU:CD	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Q:182:SER:O	1:0Q:185:ARG:HG2	2.10	0.52
1:0R:18:VAL:HG12	1:0R:57:ILE:HG12	1.92	0.52
1:0U:186:ILE:CA	5:1M:588:ARG:HH12	2.22	0.52
1:0U:202:ALA:O	1:0U:206:VAL:HG23	2.10	0.52
1:1A:87:GLN:HA	1:1A:90:TYR:HD2	1.73	0.52
1:1B:153:ALA:HA	1:1B:160:ALA:HB2	1.92	0.52
1:1C:308:ASN:HA	1:1C:311:LEU:HD12	1.92	0.52
1:1C:341:VAL:HG21	1:1C:377:THR:CG2	2.39	0.52
4:1J:14:GLU:HG2	4:1J:106:GLU:HB2	1.92	0.52
5:1M:409:MET:HE1	5:1M:451:ILE:HD13	1.92	0.52
9:1Q:428:TRP:HA	9:1Q:436:LEU:HA	1.90	0.52
12:1c:201:VAL:HG12	12:1c:266:PHE:O	2.08	0.52
13:1d:2:ARG:HH21	13:1d:243:ARG:HA	1.75	0.52
12:1g:176:SER:OG	13:1h:349:THR:HB	2.10	0.52
12:1g:337:ASN:HB3	12:1g:340:TYR:HD2	1.75	0.52
13:1h:328:VAL:O	13:1h:332:VAL:HG12	2.10	0.52
24:2T:132:ARG:HH11	24:2T:145:TRP:CD1	2.27	0.52
24:2U:139:VAL:O	13:Dd:214:ARG:NH2	2.43	0.52
12:2a:396:HIS:HE2	13:2b:261:PRO:C	2.16	0.52
30:3G:546:GLU:HG2	31:3I:392:VAL:CG2	2.40	0.52
32:3J:358:ARG:CD	12:9a:390:ARG:HB3	2.36	0.52
33:3L:174:VAL:O	33:3L:174:VAL:HG12	2.10	0.52
34:3P:111:ILE:HG13	34:3P:112:LYS:N	2.25	0.52
34:3P:118:HIS:HA	34:3P:121:LEU:HD21	1.91	0.52
34:3Q:324:HIS:O	34:3Q:328:MET:HG2	2.10	0.52
34:3W:85:TYR:O	34:3W:89:ILE:HG12	2.09	0.52
34:3Y:248:PHE:HE2	34:4A:485:TYR:HA	1.74	0.52
34:3Z:118:HIS:HD2	34:3Z:357:LEU:HD11	1.73	0.52
13:3b:224:TYR:CZ	12:3c:323:THR:HG21	2.45	0.52
12:3g:267:MET:HE1	12:3g:305:PRO:HG3	1.91	0.52
34:4A:123:GLN:CG	37:4F:1532:LEU:H	2.23	0.52
35:4C:899:ARG:HA	35:4C:1109:LEU:HD11	1.92	0.52
37:4E:518:LEU:HD23	37:4E:535:ALA:HB2	1.92	0.52
37:4E:589:PRO:HB2	43:5L:19:ARG:CA	2.40	0.52
37:4E:754:ALA:HB1	37:4E:1624:ILE:HD12	1.92	0.52
37:4E:776:HIS:CD2	37:4E:1783:LEU:HD23	2.44	0.52
37:4F:576:ALA:HA	37:4F:581:LEU:CD2	2.35	0.52
37:4F:826:LEU:HD13	38:4N:82:TYR:CE1	2.44	0.52
37:4F:826:LEU:CD2	38:4N:82:TYR:OH	2.49	0.52
37:4F:1076:THR:N	38:4N:42:ILE:CD1	2.69	0.52
37:4F:1083:ILE:CA	38:4N:37:GLY:HA3	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1093:VAL:HG12	37:4F:1137:ALA:HA	1.92	0.52
37:4F:1466:TYR:OH	37:4F:1469:GLU:HG3	2.10	0.52
37:4G:1093:VAL:CG2	38:4L:32:GLU:O	2.58	0.52
37:4G:1466:TYR:OH	37:4G:1469:GLU:HG3	2.10	0.52
37:4H:623:ARG:NH1	37:4H:688:LEU:HD11	2.25	0.52
37:4H:1074:GLN:CG	37:4H:1074:GLN:CA	2.79	0.52
37:4H:1532:LEU:HD12	37:4H:1533:PRO:HD2	1.92	0.52
38:4K:25:PRO:HB3	42:5G:96:ALA:HB1	1.90	0.52
38:4L:27:ALA:HA	38:4L:30:ALA:H	1.75	0.52
38:4N:47:ALA:O	38:4N:48:PRO:C	2.49	0.52
41:4W:88:TYR:HA	41:4W:103:PHE:HA	1.92	0.52
12:4c:134:GLN:HA	12:4c:165:LEU:O	2.09	0.52
42:5H:144:PHE:HZ	43:5L:144:TYR:CZ	2.26	0.52
43:5J:62:GLY:HA2	43:5J:67:PHE:CD2	2.45	0.52
13:5b:212:ILE:O	13:5b:216:SER:OG	2.25	0.52
12:5c:177:ASP:N	12:5c:181:GLU:OE2	2.43	0.52
12:5e:116:VAL:O	12:5e:120:VAL:HG13	2.10	0.52
12:5g:272:PRO:HD3	12:5g:364:SER:HA	1.92	0.52
13:5h:328:VAL:O	13:5h:332:VAL:HG12	2.10	0.52
47:6B:186:ALA:CA	13:Ch:339:ARG:HD2	2.31	0.52
48:6F:140:PRO:HB2	48:6F:143:LEU:HB2	1.92	0.52
49:6I:102:LEU:O	49:6I:104:LYS:HG2	2.09	0.52
49:6J:46:GLU:H	49:6J:46:GLU:CD	2.15	0.52
12:6a:313:ALA:O	12:6a:349:VAL:HA	2.09	0.52
12:6c:178:THR:CG2	12:6c:181:GLU:HG3	2.40	0.52
13:6d:96:LYS:HA	12:6e:1:MET:CE	2.39	0.52
12:6e:86:ARG:HH22	12:7e:281:TYR:CA	2.23	0.52
12:6e:382:SER:O	12:6e:386:THR:HG23	2.09	0.52
12:7c:207:LEU:O	12:7c:210:ILE:HG22	2.10	0.52
12:7e:279:GLN:C	12:7e:281:TYR:H	2.18	0.52
13:8b:2:ARG:HH21	13:8b:243:ARG:HA	1.75	0.52
13:8d:2:ARG:HH21	13:8d:243:ARG:HA	1.75	0.52
12:8e:60:VAL:HG11	12:8e:86:ARG:NH1	2.25	0.52
13:8h:56:THR:HA	13:9h:285:GLN:HG2	1.92	0.52
13:8h:272:TYR:HB3	13:8h:275:ILE:HD11	1.92	0.52
13:9b:328:VAL:O	13:9b:332:VAL:HG12	2.10	0.52
12:9c:73:MET:HE2	12:9c:90:PHE:HD2	1.75	0.52
12:9c:285:THR:HG23	12:9c:288:GLU:H	1.74	0.52
12:9g:68:LEU:HD21	12:9g:147:MET:SD	2.50	0.52
12:9g:115:SER:O	12:9g:119:VAL:HG23	2.09	0.52
12:Ac:101:TRP:HD1	12:Ac:145:SER:OG	1.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bc:111:GLU:OE2	12:Bc:112:LEU:HG	2.09	0.52
12:Be:74:ASP:OD1	12:Be:77:ARG:NH2	2.43	0.52
13:Cf:2:ARG:HH21	13:Cf:243:ARG:HA	1.75	0.52
13:Cf:55:GLU:O	13:Df:285:GLN:NE2	2.42	0.52
12:Da:248:ALA:HA	12:Da:252:LYS:HD2	1.91	0.52
12:De:70:PRO:HB2	13:Df:1:MET:HE2	1.91	0.52
1:0F:169:VAL:H	1:0F:170:PRO:HD2	1.75	0.52
1:0L:104:ALA:HA	1:0L:107:LEU:HD12	1.92	0.52
1:0L:380:LEU:HD22	1:0L:404:LEU:HD23	1.92	0.52
1:0P:370:HIS:O	1:0P:374:VAL:HG23	2.10	0.52
1:0Q:355:ALA:O	1:0Q:359:THR:HG23	2.09	0.52
1:0Q:384:VAL:HG11	1:0Q:423:ARG:HG2	1.92	0.52
1:0Q:395:ASP:OD1	1:0Q:396:LEU:N	2.42	0.52
1:0R:233:LEU:HD13	1:0R:252:ILE:HG21	1.92	0.52
1:0R:359:THR:HA	1:0R:362:GLN:OE1	2.10	0.52
1:0X:269:LYS:HB2	1:0X:309:ASN:HB2	1.92	0.52
1:0Z:88:LEU:HA	1:0Z:91:SER:OG	2.10	0.52
1:1A:33:ASN:O	1:1A:37:LEU:HG	2.10	0.52
1:1A:394:ASP:N	1:1A:394:ASP:OD2	2.43	0.52
1:1C:205:VAL:HG13	1:1C:210:ALA:HB3	1.92	0.52
3:1H:186:ARG:HG2	3:1H:289:LEU:HD13	1.92	0.52
3:1H:930:LYS:NZ	4:1J:244:LEU:HA	2.25	0.52
3:1I:1043:GLU:HG2	3:1I:1047:PHE:CE2	2.45	0.52
4:1K:14:GLU:HG2	4:1K:106:GLU:HB2	1.92	0.52
5:1L:376:PRO:HG2	5:1L:394:LEU:HD23	1.92	0.52
5:1L:384:VAL:HG11	5:1L:390:ALA:HB2	1.92	0.52
7:1O:2033:ALA:HA	7:1O:2036:TRP:HD1	1.75	0.52
12:1a:131:GLN:NE2	12:1a:250:LEU:HB2	2.25	0.52
13:1b:2:ARG:HH21	13:1b:243:ARG:HA	1.75	0.52
13:1f:2:ARG:HH21	13:1f:243:ARG:HA	1.75	0.52
13:1h:2:ARG:HH21	13:1h:243:ARG:HA	1.75	0.52
15:2H:191:UNK:O	15:2H:192:UNK:O	2.28	0.52
24:2U:164:VAL:HG11	13:Dd:309:HIS:NE2	2.25	0.52
24:2V:151:PHE:O	13:Df:176:GLN:HG3	2.09	0.52
25:2X:115:UNK:CB	12:2g:262:ARG:HD3	2.40	0.52
12:2c:66:MET:SD	12:2c:147:MET:HB3	2.50	0.52
12:2g:193:VAL:HG13	12:2g:262:ARG:HB2	1.92	0.52
30:3F:325:PHE:CE1	13:7f:342:GLN:HB3	2.45	0.52
32:3K:142:ALA:HB2	32:3K:176:PHE:HD2	1.75	0.52
34:3O:501:ASP:HA	34:3O:504:LEU:HD12	1.90	0.52
34:3R:121:LEU:O	34:3R:125:ARG:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3V:482:LEU:HD22	34:3X:489:MET:HE1	1.92	0.52
34:3X:270:ILE:CD1	34:3X:273:ARG:HH21	2.24	0.52
34:3X:490:GLN:HE22	37:4F:1795:ARG:HE	1.57	0.52
34:4A:243:ALA:O	34:4A:244:ARG:HB3	2.10	0.52
34:4B:49:PHE:CE2	34:4B:53:ILE:HD11	2.45	0.52
34:4B:74:LEU:HD21	34:4B:191:ALA:CB	2.39	0.52
37:4E:576:ALA:CB	43:5L:30:ARG:CG	2.81	0.52
37:4E:835:PHE:CE2	37:4E:847:VAL:HG21	2.45	0.52
37:4E:1366:VAL:HG21	37:4E:1396:LEU:HB3	1.90	0.52
37:4F:1093:VAL:O	37:4F:1136:ARG:HG2	2.10	0.52
37:4H:935:ARG:NH1	38:4J:73:PRO:O	2.40	0.52
37:4H:1091:VAL:HG22	37:4H:1138:VAL:HG12	1.87	0.52
38:4J:27:ALA:HA	38:4J:30:ALA:H	1.75	0.52
38:4J:58:VAL:HG23	38:4J:59:PRO:HD3	1.92	0.52
38:4M:27:ALA:HA	38:4M:30:ALA:H	1.75	0.52
38:4N:27:ALA:C	38:4N:30:ALA:H	2.17	0.52
40:4U:290:PRO:HB2	40:4U:293:HIS:HB2	1.92	0.52
40:4V:427:SER:HB2	40:4V:455:THR:CG2	2.40	0.52
12:4a:86:ARG:HH11	12:5a:281:TYR:HA	1.75	0.52
13:4f:207:GLU:OE1	13:4f:304:LYS:NZ	2.30	0.52
41:5A:145:GLY:H	41:5A:161:PHE:CB	2.23	0.52
41:5A:162:PHE:N	41:5A:164:GLY:HA2	2.25	0.52
41:5C:144:HIS:H	41:5C:164:GLY:HA2	1.74	0.52
42:5H:135:ARG:HD3	43:5L:53:ASP:HA	1.90	0.52
42:5H:139:LEU:CD1	43:5L:142:TYR:O	2.58	0.52
13:5b:401:LYS:NZ	12:5c:429:SER:C	2.64	0.52
13:5d:328:VAL:O	13:5d:332:VAL:HG12	2.10	0.52
13:5f:328:VAL:O	13:5f:332:VAL:HG12	2.10	0.52
47:6B:233:LEU:HD12	13:Bf:415:GLU:HB3	1.91	0.52
47:6B:287:GLY:C	3:6D:197:SER:C	2.78	0.52
48:6E:140:PRO:HB2	48:6E:143:LEU:HB2	1.92	0.52
50:6K:80:SER:N	50:6K:101:ASP:OD1	2.43	0.52
51:6M:1843:ALA:HA	51:6M:1846:ASP:OD2	2.09	0.52
51:6M:2247:LEU:HD13	51:6M:2252:TYR:HD2	1.75	0.52
12:6g:101:TRP:HD1	12:6g:145:SER:OG	1.93	0.52
12:7e:206:ALA:O	12:7e:210:ILE:HG23	2.10	0.52
12:8a:174:LYS:HZ2	13:8b:333:ALA:HA	1.73	0.52
13:8b:272:TYR:HB3	13:8b:275:ILE:HD11	1.92	0.52
13:8b:328:VAL:O	13:8b:332:VAL:HG12	2.10	0.52
13:8d:272:TYR:HB3	13:8d:275:ILE:HD11	1.92	0.52
12:9a:11:GLN:HA	12:9a:72:THR:HG21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:9a:164:MET:HB3	12:9a:197:ASP:H	1.74	0.52
12:9e:99:ASN:HA	12:9e:142:GLY:H	1.75	0.52
12:Aa:396:HIS:CD2	13:Ab:263:PRO:HD3	2.45	0.52
13:Ab:328:VAL:O	13:Ab:332:VAL:HG12	2.10	0.52
12:Ba:11:GLN:HA	12:Ba:72:THR:HG21	1.91	0.52
12:Ba:33:THR:O	12:Ba:58:ARG:NH1	2.42	0.52
13:Bh:328:VAL:O	13:Bh:332:VAL:HG12	2.10	0.52
13:Cd:2:ARG:HH21	13:Cd:243:ARG:HA	1.75	0.52
12:Ce:208:TYR:HA	12:Ce:211:CYS:SG	2.49	0.52
12:Da:221:THR:HG23	12:Da:223:GLY:H	1.75	0.52
12:Da:396:HIS:CG	13:Db:263:PRO:HG3	2.45	0.52
12:Dg:267:MET:HE1	12:Dg:305:PRO:HG3	1.91	0.52
13:Dh:2:ARG:HH21	13:Dh:243:ARG:HA	1.75	0.52
13:Dh:328:VAL:O	13:Dh:332:VAL:HG12	2.10	0.52
1:0W:316:ALA:O	1:0W:320:ILE:HG23	2.10	0.52
1:0K:205:VAL:HG13	1:0K:210:ALA:HB3	1.92	0.52
1:0A:24:VAL:HG13	1:0A:37:LEU:HD21	1.92	0.51
1:0B:338:PRO:HA	1:0B:341:VAL:HG12	1.90	0.51
1:0D:80:VAL:HG21	1:0D:117:LEU:HD22	1.92	0.51
1:0L:194:ILE:HG23	1:0L:201:LEU:HD13	1.91	0.51
1:0O:112:ARG:NH2	1:0O:113:HIS:CE1	2.78	0.51
1:0Q:20:PHE:O	1:0Q:24:VAL:HG13	2.10	0.51
1:0U:221:GLN:HB3	5:1M:505:MET:HG3	1.92	0.51
1:0V:344:LEU:HD23	1:0V:347:GLU:OE2	2.09	0.51
1:0Y:223:ALA:HB2	1:0Y:262:PHE:CZ	2.45	0.51
1:0Y:245:GLU:HA	1:0Y:248:VAL:HG22	1.92	0.51
1:1B:328:ALA:O	1:1B:331:VAL:HG22	2.10	0.51
2:1F:19:LYS:NZ	13:Ah:192:HIS:HE1	2.08	0.51
2:1F:51:VAL:HG12	10:1S:358:ALA:HB1	1.92	0.51
6:1N:1389:PHE:HB3	6:1N:1508:LEU:CD1	2.40	0.51
6:1N:1712:HIS:HB3	6:1N:1741:HIS:HB3	1.92	0.51
7:1O:3059:LEU:HB3	7:1O:3063:ALA:HB3	1.92	0.51
10:1S:57:LYS:HB3	13:Ah:337:THR:O	2.10	0.51
10:1S:70:LEU:HD22	10:1S:75:LEU:HD23	1.91	0.51
10:1S:149:ARG:HH22	13:9f:109:THR:HG21	1.74	0.51
12:1c:272:PRO:HD3	12:1c:364:SER:HA	1.92	0.51
23:2R:22:UNK:CA	13:2d:123:ARG:HH22	2.23	0.51
30:3F:494:ALA:O	30:3F:498:VAL:HG13	2.10	0.51
30:3F:635:ARG:HD2	30:3F:638:LEU:HD21	1.92	0.51
32:3J:408:THR:O	32:3J:411:VAL:HB	2.10	0.51
33:3L:200:GLN:NE2	12:7e:390:ARG:HG2	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3M:203:ALA:HB1	34:3P:289:ALA:HB2	1.92	0.51
34:3N:269:GLY:O	34:3N:273:ARG:HG3	2.10	0.51
34:3N:312:TRP:HA	34:3N:315:GLN:CD	2.35	0.51
34:3N:353:LEU:O	34:3N:357:LEU:HD23	2.10	0.51
34:3P:119:MET:HE1	34:3P:372:GLN:HG2	1.91	0.51
34:3P:422:HIS:O	34:3P:426:LEU:HD23	2.10	0.51
34:3Q:386:HIS:CE1	34:3Q:390:LEU:HD11	2.45	0.51
34:3T:325:ASP:HA	34:3T:328:MET:SD	2.50	0.51
34:3W:501:ASP:O	34:3W:505:THR:HG23	2.10	0.51
34:3X:352:LEU:HD22	34:3X:356:PHE:CE2	2.45	0.51
12:3g:73:MET:HE2	12:3g:90:PHE:HD2	1.75	0.51
34:4A:361:LEU:HD11	34:4A:371:ALA:HB2	1.92	0.51
35:4C:455:TRP:HE3	35:4C:470:ASN:CB	2.23	0.51
35:4C:736:ARG:HA	35:4C:775:LEU:H	1.73	0.51
35:4C:900:ILE:HB	35:4C:1109:LEU:HD21	1.92	0.51
37:4E:576:ALA:C	43:5L:52:LEU:CD2	2.83	0.51
37:4E:578:ASP:HB2	43:5L:31:ASP:OD1	2.10	0.51
37:4E:1108:PHE:CE2	43:5L:138:HIS:HA	2.45	0.51
37:4E:1275:PHE:CE2	37:4E:1276:THR:HG23	2.46	0.51
37:4F:1082:LEU:CB	37:4F:1082:LEU:HA	2.20	0.51
37:4F:1083:ILE:CG2	37:4F:1083:ILE:CA	2.78	0.51
37:4F:1131:THR:HG22	37:4F:1132:PRO:O	2.09	0.51
37:4G:690:CYS:SG	37:4G:690:CYS:O	2.68	0.51
37:4G:1334:GLU:O	37:4G:1335:MET:C	2.50	0.51
37:4G:1349:THR:C	37:4G:1350:ILE:HG13	2.35	0.51
37:4H:671:LEU:HD13	38:4J:39:HIS:CB	2.32	0.51
37:4H:954:SER:CA	38:4M:48:PRO:HA	2.40	0.51
37:4H:1136:ARG:HG3	38:4M:32:GLU:CG	2.40	0.51
38:4M:38:VAL:O	38:4M:41:LYS:N	2.41	0.51
38:4M:65:MET:O	38:4M:69:CYS:CB	2.50	0.51
38:4N:75:ASN:C	38:4N:77:VAL:N	2.66	0.51
39:4S:19:TYR:OH	43:5K:121:PHE:HB2	2.10	0.51
13:4d:207:GLU:OE1	13:4d:304:LYS:NZ	2.30	0.51
13:4d:328:VAL:O	13:4d:332:VAL:HG12	2.10	0.51
13:4f:328:VAL:O	13:4f:332:VAL:HG12	2.10	0.51
12:4g:170:VAL:CG2	12:4g:201:VAL:HG13	2.40	0.51
42:5H:50:LEU:HG	43:5L:144:TYR:OH	2.10	0.51
43:5K:27:LEU:O	43:5K:31:ASP:HB2	2.10	0.51
44:5U:105:SER:HA	44:5U:139:GLN:HA	1.92	0.51
44:5U:122:GLU:O	44:5U:125:VAL:HG12	2.10	0.51
47:6B:399:LYS:HA	3:6D:991:ILE:HG23	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:1647:GLN:NE2	47:6B:1672:LEU:HA	2.20	0.51
3:6D:926:MET:SD	3:6D:934:LEU:HD11	2.50	0.51
48:6E:99:ASP:O	48:6E:100:ASN:ND2	2.43	0.51
48:6E:650:GLU:HB3	48:6E:653:TRP:CD1	2.44	0.51
49:6H:195:ILE:HB	49:6H:210:PHE:HB2	1.91	0.51
49:6I:46:GLU:H	49:6I:46:GLU:CD	2.15	0.51
49:6I:193:ASN:O	49:6I:441:ALA:HB2	2.10	0.51
49:6J:102:LEU:O	49:6J:104:LYS:HG2	2.09	0.51
49:6J:193:ASN:O	49:6J:441:ALA:HB2	2.10	0.51
49:6J:437:ILE:HD13	49:6J:454:LEU:HD11	1.92	0.51
50:6L:80:SER:N	50:6L:101:ASP:OD1	2.43	0.51
51:6N:1330:GLU:HA	51:6N:1333:GLU:OE1	2.10	0.51
51:6N:1843:ALA:HA	51:6N:1846:ASP:OD2	2.09	0.51
12:6c:207:LEU:O	12:6c:210:ILE:HG22	2.10	0.51
13:7b:328:VAL:O	13:7b:332:VAL:HG12	2.10	0.51
12:7c:5:VAL:HG23	12:7c:130:LEU:HD11	1.92	0.51
12:7c:134:GLN:HA	12:7c:165:LEU:O	2.10	0.51
13:7f:328:VAL:O	13:7f:332:VAL:HG12	2.10	0.51
13:8f:2:ARG:HH21	13:8f:243:ARG:HA	1.75	0.51
13:8f:272:TYR:HB3	13:8f:275:ILE:HD11	1.92	0.51
12:8g:31:ASP:HB2	12:8g:32:PRO:HD2	1.92	0.51
12:Aa:6:HIS:HD2	12:Aa:134:GLN:HG3	1.75	0.51
12:Ae:99:ASN:HB2	13:Af:258:ASN:HD21	1.75	0.51
12:Ag:101:TRP:HD1	12:Ag:145:SER:HG	1.56	0.51
13:Bf:328:VAL:O	13:Bf:332:VAL:HG12	2.10	0.51
12:Bg:267:MET:HG2	12:Bg:301:CYS:HB3	1.92	0.51
13:Bh:2:ARG:HD3	13:Bh:2:ARG:H	1.76	0.51
13:Cb:2:ARG:HH21	13:Cb:243:ARG:HA	1.75	0.51
12:Cc:72:THR:O	12:Cc:76:VAL:HG23	2.10	0.51
1:0H:11:GLU:O	1:0H:15:LYS:HG2	2.09	0.51
1:0H:177:GLN:O	1:0H:179:PRO:HD3	2.10	0.51
1:0J:224:LYS:HG2	1:0J:227:ARG:HH21	1.74	0.51
1:0I:182:SER:O	1:0I:185:ARG:HG2	2.10	0.51
1:0B:223:ALA:HB2	1:0B:262:PHE:CZ	2.45	0.51
1:0C:202:ALA:O	1:0C:206:VAL:HG23	2.10	0.51
1:0M:134:LEU:HD23	1:0M:142:LYS:HB3	1.93	0.51
1:0N:252:ILE:HG22	1:0N:256:ILE:HG12	1.92	0.51
1:0Q:17:ARG:HE	1:0Q:57:ILE:HD13	1.74	0.51
1:0U:63:LEU:HD11	5:1M:596:PRO:HB3	1.92	0.51
1:0V:252:ILE:HG22	1:0V:256:ILE:HG12	1.91	0.51
1:1B:367:THR:HB	1:1B:370:HIS:CG	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1F:14:VAL:HG13	2:1F:18:LEU:HD13	1.91	0.51
3:1H:205:PRO:HA	47:6A:291:GLN:HG3	1.92	0.51
3:1H:813:VAL:HG22	3:1H:853:LEU:HD21	1.93	0.51
4:1J:21:ILE:HG21	13:Bh:419:SER:HB3	1.92	0.51
4:1K:256:PHE:CZ	4:1K:258:PRO:HB3	2.45	0.51
5:1L:409:MET:HE1	5:1L:451:ILE:HD13	1.92	0.51
5:1M:376:PRO:HG2	5:1M:394:LEU:HD23	1.93	0.51
6:1N:43:VAL:HG22	6:1N:47:THR:OG1	2.11	0.51
6:1N:411:VAL:HG13	6:1N:455:HIS:CG	2.44	0.51
7:1O:228:TYR:HB2	8:1P:877:VAL:HG13	1.92	0.51
7:1O:1616:TRP:CD1	7:1O:1759:LEU:HD11	2.45	0.51
7:1O:3022:PRO:HB2	7:1O:3023:PRO:HD3	1.92	0.51
13:1d:328:VAL:O	13:1d:332:VAL:HG12	2.10	0.51
14:2G:44:LYS:NZ	13:Df:245:ASP:OD2	2.40	0.51
24:2T:141:ARG:HD3	13:Dh:215:ARG:CZ	2.40	0.51
24:2T:152:GLU:OE1	24:2T:158:VAL:HB	2.10	0.51
24:2T:156:LYS:O	24:2T:160:ARG:HD3	2.10	0.51
12:2a:98:GLY:HA2	13:2b:254:GLU:HG2	1.92	0.51
12:2a:101:TRP:HD1	12:2a:145:SER:OG	1.90	0.51
12:2c:337:ASN:HB3	12:2c:340:TYR:HD2	1.75	0.51
12:2g:178:THR:HA	13:2h:352:LYS:HD3	1.91	0.51
12:2g:337:ASN:HB3	12:2g:340:TYR:HD2	1.75	0.51
13:2h:328:VAL:O	13:2h:332:VAL:HG12	2.10	0.51
30:3F:434:ALA:HA	30:3F:437:ILE:HD13	1.91	0.51
32:3K:42:ARG:HH21	32:3K:43:ILE:HG12	1.74	0.51
34:3M:365:GLU:OE1	34:3M:365:GLU:HA	2.10	0.51
34:3P:74:LEU:HD22	34:3P:313:HIS:CE1	2.44	0.51
34:3P:89:ILE:HD12	34:3P:404:HIS:CE1	2.45	0.51
34:3Q:373:ALA:HB1	34:3X:362:PRO:HA	1.92	0.51
34:3V:487:ALA:O	34:3V:491:GLU:HG2	2.10	0.51
34:3Y:255:HIS:CA	34:3Y:474:TRP:HE1	2.22	0.51
12:3e:206:ALA:O	12:3e:210:ILE:HG23	2.10	0.51
12:3e:285:THR:HG23	12:3e:288:GLU:H	1.73	0.51
34:4B:312:TRP:CH2	34:4B:419:LEU:HB2	2.44	0.51
36:4D:52:LEU:HD12	36:4D:162:ILE:HG13	1.92	0.51
37:4E:430:ASP:HB2	37:4E:433:LYS:HG3	1.92	0.51
37:4E:550:GLY:O	37:4E:551:GLU:HG2	2.10	0.51
37:4E:575:SER:O	43:5L:31:ASP:HA	2.10	0.51
37:4E:583:GLU:CB	43:5L:36:TYR:C	2.83	0.51
37:4E:692:MET:CB	38:4P:59:PRO:HB3	2.40	0.51
37:4E:964:PRO:HD2	37:4E:1372:PRO:HG2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:1165:ARG:NH1	37:4E:1184:TRP:CD1	2.78	0.51
37:4E:1173:LEU:HD12	37:4E:1204:LYS:HB3	1.91	0.51
37:4F:664:TYR:CZ	38:4K:50:ARG:NH2	2.79	0.51
37:4F:1095:PRO:HD2	37:4F:1098:ASP:OD2	2.09	0.51
37:4G:534:HIS:CE1	38:4I:50:ARG:HH22	2.28	0.51
37:4G:1093:VAL:HG12	38:4L:33:LYS:NZ	2.24	0.51
37:4G:1532:LEU:HD12	37:4G:1533:PRO:HD2	1.92	0.51
37:4H:1332:SER:HA	37:4H:1342:LEU:HA	1.91	0.51
38:4I:81:ALA:O	38:4I:85:LEU:HG	2.10	0.51
38:4I:82:TYR:N	38:4I:82:TYR:HD1	2.07	0.51
38:4K:53:LEU:HD12	38:4K:54:GLU:N	2.24	0.51
38:4L:58:VAL:HG23	38:4L:59:PRO:HD3	1.92	0.51
38:4L:81:ALA:O	38:4L:85:LEU:HG	2.10	0.51
38:4M:58:VAL:HG23	38:4M:59:PRO:HD3	1.92	0.51
38:4N:58:VAL:HG23	38:4N:59:PRO:HD3	1.92	0.51
39:4Q:36:ALA:HB1	44:5S:92:ALA:HB1	1.91	0.51
40:4T:290:PRO:HB2	40:4T:293:HIS:HB2	1.92	0.51
12:4a:6:HIS:HD2	12:4a:134:GLN:HG3	1.75	0.51
12:4c:170:VAL:CG2	12:4c:201:VAL:HG13	2.40	0.51
13:4h:272:TYR:HB3	13:4h:275:ILE:HD11	1.91	0.51
41:5A:143:MET:O	41:5A:145:GLY:N	2.43	0.51
42:5H:85:CYS:HB2	43:5L:47:LYS:HG3	1.92	0.51
42:5H:137:TYR:CG	43:5L:47:LYS:HB2	2.45	0.51
43:5I:35:LYS:NZ	43:5I:42:TYR:OH	2.29	0.51
43:5K:75:LEU:O	43:5K:79:VAL:HG23	2.10	0.51
43:5K:138:HIS:O	43:5K:142:TYR:HD2	1.92	0.51
43:5L:93:MET:HE3	43:5L:136:TYR:O	2.09	0.51
44:5T:91:GLU:O	44:5T:95:VAL:HG23	2.10	0.51
12:5a:208:TYR:OH	12:5a:222:PHE:HE1	1.93	0.51
12:5c:134:GLN:HA	12:5c:165:LEU:O	2.10	0.51
12:5c:253:LEU:HD21	12:5c:316:LEU:HD11	1.92	0.51
48:6F:75:LEU:HD11	48:6F:86:LEU:HD21	1.93	0.51
48:6F:858:TRP:CD1	48:6F:946:LEU:HB3	2.45	0.51
49:6H:367:THR:CG2	49:6H:387:LYS:H	2.22	0.51
50:6L:289:GLU:OE1	50:6L:300:ALA:HB2	2.10	0.51
51:6M:1330:GLU:HA	51:6M:1333:GLU:OE1	2.10	0.51
51:6M:2166:LEU:HG	51:6M:2289:VAL:HG22	1.92	0.51
51:6N:2247:LEU:HD13	51:6N:2252:TYR:HD2	1.75	0.51
12:6c:83:GLN:O	12:7c:281:TYR:OH	2.20	0.51
13:7f:224:TYR:CD2	12:7g:245:GLN:HG2	2.44	0.51
12:7g:183:TYR:OH	12:7g:388:MET:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:9c:207:LEU:O	12:9c:210:ILE:HG22	2.11	0.51
13:9d:272:TYR:HB3	13:9d:275:ILE:HD11	1.92	0.51
13:Ah:2:ARG:HH21	13:Ah:243:ARG:HA	1.75	0.51
12:Bc:66:MET:SD	12:Bc:147:MET:HB3	2.51	0.51
13:Bd:2:ARG:HD3	13:Bd:2:ARG:H	1.76	0.51
13:Bf:2:ARG:HD3	13:Bf:2:ARG:H	1.76	0.51
12:Cg:337:ASN:HB3	12:Cg:340:TYR:HD2	1.75	0.51
12:De:11:GLN:HA	12:De:72:THR:HG21	1.91	0.51
12:De:70:PRO:HG3	12:De:92:PHE:HD2	1.76	0.51
13:Df:2:ARG:HH21	13:Df:243:ARG:HA	1.75	0.51
1:0H:347:GLU:HB3	1:0H:353:LYS:HG2	1.91	0.51
1:0J:15:LYS:O	1:0J:18:VAL:HG22	2.11	0.51
1:0J:252:ILE:HA	1:0J:255:LYS:HD2	1.92	0.51
1:0W:219:ILE:HG12	1:0W:255:LYS:HG2	1.92	0.51
1:0I:17:ARG:HE	1:0I:57:ILE:HD13	1.74	0.51
1:0K:15:LYS:O	1:0K:18:VAL:HG22	2.10	0.51
1:0F:230:CYS:HB3	1:0F:270:HIS:HB3	1.93	0.51
1:0L:14:GLN:O	1:0L:18:VAL:HG23	2.10	0.51
1:0L:361:GLY:HA2	1:0L:403:ALA:HA	1.92	0.51
1:0N:354:SER:HB2	1:0N:399:LYS:HD2	1.92	0.51
1:0P:11:GLU:O	1:0P:15:LYS:HG2	2.09	0.51
1:0P:180:GLU:HB3	1:0P:183:LEU:HG	1.92	0.51
1:0P:344:LEU:HA	1:0P:347:GLU:CD	2.35	0.51
1:0S:79:VAL:HG13	1:0S:84:ILE:HB	1.93	0.51
1:0S:108:ARG:NH2	1:0S:144:ALA:HB1	2.26	0.51
1:0T:127:LEU:HD13	1:0T:130:LEU:HD12	1.93	0.51
1:0V:230:CYS:HB2	1:0V:270:HIS:HB3	1.91	0.51
1:0V:367:THR:HB	1:0V:370:HIS:CG	2.45	0.51
1:0X:85:LEU:HA	1:0X:88:LEU:HD12	1.93	0.51
1:0Z:184:LYS:HB3	1:0Z:217:LEU:HD21	1.91	0.51
1:0Z:202:ALA:O	1:0Z:206:VAL:HG23	2.10	0.51
1:1B:227:ARG:HG3	1:1B:267:VAL:HG22	1.93	0.51
1:1C:105:PHE:O	1:1C:108:ARG:HG2	2.11	0.51
1:1C:368:PRO:HA	1:1C:410:LYS:HB3	1.93	0.51
2:1F:147:MET:CE	2:1F:183:ILE:HG12	2.40	0.51
3:1H:783:LEU:HD11	3:1H:822:LEU:HD12	1.92	0.51
6:1N:606:ALA:CB	6:1N:641:TRP:CH2	2.93	0.51
6:1N:1725:ARG:HE	6:1N:2215:ASN:HD21	1.58	0.51
7:1O:2898:GLU:OE2	8:1P:766:VAL:HG22	2.11	0.51
7:1O:3084:SER:HB2	7:1O:3218:VAL:HG11	1.92	0.51
13:1f:324:VAL:HB	13:1f:327:ASP:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1g:272:PRO:HD3	12:1g:364:SER:HA	1.91	0.51
14:2F:90:HIS:CE1	12:Ca:274:THR:HB	2.45	0.51
13:2d:328:VAL:O	13:2d:332:VAL:HG12	2.10	0.51
30:3F:638:LEU:HA	30:3F:641:GLU:OE1	2.10	0.51
34:3P:274:ILE:HA	34:3P:277:VAL:HG22	1.92	0.51
34:3Q:32:SER:O	34:3Q:36:ILE:HG12	2.11	0.51
34:3U:39:GLU:HG2	34:3U:43:ARG:HH21	1.75	0.51
34:3V:85:TYR:O	34:3V:89:ILE:HG12	2.10	0.51
34:3V:243:ALA:O	34:3V:244:ARG:HB3	2.10	0.51
34:3Z:66:LYS:O	34:3Z:70:GLU:HG3	2.10	0.51
13:3b:324:VAL:HB	13:3b:327:ASP:HB2	1.93	0.51
12:3c:101:TRP:HD1	12:3c:145:SER:OG	1.94	0.51
12:3c:267:MET:HG2	12:3c:301:CYS:HB3	1.93	0.51
13:3d:212:ILE:O	13:3d:216:SER:OG	2.25	0.51
35:4C:394:SER:HB3	35:4C:421:MET:HB2	1.92	0.51
35:4C:569:ARG:C	37:4E:1762:GLU:OE1	2.52	0.51
37:4E:590:LYS:N	43:5L:21:PRO:CD	2.68	0.51
37:4G:1075:VAL:HG13	37:4G:1075:VAL:O	2.09	0.51
37:4G:1793:THR:O	37:4G:1797:VAL:HG23	2.10	0.51
37:4H:576:ALA:HA	37:4H:581:LEU:CD2	2.36	0.51
37:4H:692:MET:CG	38:4J:63:GLN:NE2	2.72	0.51
37:4H:1093:VAL:HG13	37:4H:1094:ALA:N	2.25	0.51
38:4I:27:ALA:HA	38:4I:30:ALA:H	1.75	0.51
38:4I:40:LYS:CE	38:4I:44:LEU:HD12	2.40	0.51
38:4K:27:ALA:HA	38:4K:30:ALA:H	1.75	0.51
38:4K:40:LYS:NZ	38:4K:40:LYS:O	2.43	0.51
38:4M:40:LYS:NZ	38:4M:40:LYS:O	2.43	0.51
38:4M:47:ALA:HA	38:4M:50:ARG:CB	2.40	0.51
38:4N:61:LEU:HB3	38:4N:84:LEU:HD21	1.91	0.51
40:4T:293:HIS:CE1	40:4T:301:LEU:HA	2.46	0.51
42:5H:91:TYR:CE2	43:5L:42:TYR:CD2	2.98	0.51
42:5H:137:TYR:HD2	43:5L:48:THR:OG1	1.93	0.51
12:5a:276:ARG:HA	12:5a:279:GLN:NE2	2.25	0.51
12:5e:6:HIS:HD2	12:5e:134:GLN:HG3	1.76	0.51
12:5e:60:VAL:HG11	12:5e:86:ARG:NH1	2.24	0.51
12:5e:249:ASP:H	12:5e:252:LYS:HD2	1.76	0.51
12:5e:272:PRO:HD3	12:5e:364:SER:HA	1.93	0.51
47:6A:629:ALA:HA	47:6A:632:MET:HG3	1.91	0.51
47:6A:1441:LEU:HA	47:6A:1444:CYS:SG	2.51	0.51
47:6B:230:HIS:ND1	13:Bf:402:ARG:NH2	2.57	0.51
47:6B:770:PHE:CE2	47:6B:780:LEU:HD11	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:1839:VAL:HG21	47:6B:1901:LEU:CD1	2.39	0.51
3:6D:36:VAL:HG13	3:6D:79:PRO:HG2	1.92	0.51
3:6D:649:SER:CB	3:6D:688:LEU:HD21	2.40	0.51
48:6E:97:LEU:HB2	48:6E:119:VAL:HG22	1.92	0.51
48:6E:1017:PRO:HG3	48:6E:1029:ARG:HD3	1.91	0.51
48:6F:97:LEU:HB2	48:6F:119:VAL:HG22	1.92	0.51
48:6F:310:ASP:H	48:6F:312:VAL:HG12	1.75	0.51
49:6I:437:ILE:HD13	49:6I:454:LEU:HD11	1.92	0.51
51:6M:1593:LEU:HD22	51:6M:1653:ILE:HG21	1.92	0.51
13:6b:324:VAL:HB	13:6b:327:ASP:HB2	1.93	0.51
13:6d:324:VAL:HB	13:6d:327:ASP:HB2	1.93	0.51
12:6g:272:PRO:HD3	12:6g:364:SER:HA	1.92	0.51
13:7d:328:VAL:O	13:7d:332:VAL:HG12	2.10	0.51
13:7h:2:ARG:HH21	13:7h:243:ARG:HA	1.75	0.51
13:7h:328:VAL:O	13:7h:332:VAL:HG12	2.10	0.51
12:8g:68:LEU:HD23	12:8g:143:THR:HG22	1.92	0.51
13:9b:179:THR:HB	12:9c:246:LEU:HD21	1.92	0.51
12:9c:55:THR:HG23	12:Ac:282:ARG:O	2.10	0.51
12:9c:130:LEU:HB3	12:9c:162:ARG:HD3	1.92	0.51
12:Ac:87:PRO:HA	12:Ac:90:PHE:HD1	1.75	0.51
12:Ae:99:ASN:HA	12:Ae:142:GLY:H	1.75	0.51
13:Bb:324:VAL:HB	13:Bb:327:ASP:HB2	1.93	0.51
13:Bb:328:VAL:O	13:Bb:332:VAL:HG12	2.10	0.51
13:Bd:100:ALA:HA	12:Be:252:LYS:HG2	1.92	0.51
13:Bd:328:VAL:O	13:Bd:332:VAL:HG12	2.10	0.51
13:Cf:2:ARG:HD3	13:Cf:2:ARG:H	1.76	0.51
13:Ch:2:ARG:HD3	13:Ch:2:ARG:H	1.76	0.51
12:Dc:207:LEU:O	12:Dc:210:ILE:HG22	2.11	0.51
13:Dd:2:ARG:HH21	13:Dd:243:ARG:HA	1.75	0.51
13:Dd:328:VAL:O	13:Dd:332:VAL:HG12	2.10	0.51
13:Df:328:VAL:O	13:Df:332:VAL:HG12	2.10	0.51
1:0J:108:ARG:HD3	1:0J:147:TRP:HB3	1.92	0.51
1:0E:202:ALA:O	1:0E:206:VAL:HG23	2.11	0.51
1:0F:37:LEU:HD13	1:0F:68:LEU:HD21	1.91	0.51
1:0T:218:VAL:HG12	1:0T:255:LYS:HB3	1.92	0.51
1:0V:184:LYS:HB3	1:0V:217:LEU:HD21	1.91	0.51
1:0X:91:SER:HB2	1:0X:99:TYR:CZ	2.45	0.51
1:0Y:270:HIS:O	1:0Y:274:VAL:HG23	2.09	0.51
1:1C:231:CYS:O	1:1C:235:GLN:HG2	2.10	0.51
1:1C:340:LEU:HD22	1:1C:356:THR:HG22	1.91	0.51
3:1H:197:SER:N	47:6A:290:GLY:N	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1H:205:PRO:HB2	3:1H:210:GLN:NE2	2.25	0.51
3:1I:668:PHE:HZ	3:1I:677:HIS:HB3	1.75	0.51
3:1I:783:LEU:HD11	3:1I:822:LEU:HD12	1.91	0.51
6:1N:151:HIS:O	6:1N:155:VAL:HG22	2.08	0.51
10:1R:63:GLN:HE22	10:1R:83:THR:CG2	2.23	0.51
10:1R:104:ILE:HA	10:1R:109:ARG:HD3	1.92	0.51
11:1T:646:PRO:CB	11:1T:732:SER:HA	2.41	0.51
13:1d:72:PRO:HG3	12:1e:1:MET:CE	2.41	0.51
15:2H:65:UNK:HA	12:Bg:92:PHE:CE2	2.46	0.51
13:2f:328:VAL:O	13:2f:332:VAL:HG12	2.10	0.51
28:3C:554:ARG:HH12	12:3g:404:ASP:CB	2.23	0.51
30:3G:538:LEU:CB	13:7h:120:ASP:OD1	2.42	0.51
31:3I:319:LYS:HD2	31:3I:322:LEU:HD21	1.91	0.51
32:3J:143:ASN:HD22	32:3J:145:ALA:HB2	1.74	0.51
32:3J:144:GLU:H	32:3J:144:GLU:CD	2.18	0.51
32:3K:118:TYR:OH	32:3K:137:HIS:CD2	2.64	0.51
34:3O:63:SER:HA	34:3O:66:LYS:HE2	1.92	0.51
34:3P:75:GLN:HG2	34:3P:419:LEU:CD2	2.41	0.51
34:3P:75:GLN:HG2	34:3P:419:LEU:HD22	1.92	0.51
34:3P:463:HIS:CE1	34:3P:467:LEU:HD21	2.46	0.51
34:3S:204:MET:HE1	34:3U:288:MET:C	2.35	0.51
34:3T:380:ALA:O	34:3T:384:ASN:ND2	2.43	0.51
34:3W:203:ALA:HB1	34:3Y:289:ALA:HB2	1.91	0.51
34:3W:333:ARG:NH1	34:3W:334:LEU:HD23	2.24	0.51
13:3f:324:VAL:HB	13:3f:327:ASP:HB2	1.93	0.51
13:3h:212:ILE:O	13:3h:216:SER:OG	2.25	0.51
13:3h:324:VAL:HB	13:3h:327:ASP:HB2	1.93	0.51
35:4C:811:ARG:HH12	37:4E:1681:ARG:HG2	1.76	0.51
36:4D:139:ARG:HH22	36:4D:140:ARG:HH21	1.57	0.51
37:4E:577:LEU:HD22	43:5L:42:TYR:HB2	1.92	0.51
37:4E:586:PHE:C	43:5L:18:ILE:CG1	2.83	0.51
37:4E:589:PRO:CD	43:5L:17:SER:CA	2.73	0.51
37:4E:824:ALA:HB3	37:4E:864:VAL:HG13	1.93	0.51
37:4E:977:PRO:HG2	38:4O:36:VAL:CG1	2.40	0.51
37:4E:1159:ASP:OD1	37:4E:1159:ASP:N	2.42	0.51
37:4E:1456:PHE:HD1	37:4E:1463:CYS:SG	2.33	0.51
37:4E:1678:VAL:HG22	37:4E:1700:VAL:HG13	1.91	0.51
37:4G:576:ALA:HA	37:4G:581:LEU:CD2	2.36	0.51
37:4G:616:TRP:HZ2	37:4G:1338:PHE:C	2.19	0.51
37:4G:1084:ARG:CZ	38:4L:40:LYS:HG2	2.41	0.51
37:4G:1331:TRP:CD1	37:4G:1343:GLY:HA3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:776:HIS:CE1	37:4H:1636:VAL:HG22	2.46	0.51
37:4H:959:LEU:O	37:4H:970:SER:HA	2.11	0.51
37:4H:1084:ARG:NE	38:4M:37:GLY:CA	2.74	0.51
37:4H:1333:VAL:CB	38:4M:27:ALA:CB	2.89	0.51
38:4I:77:VAL:HG13	38:4L:84:LEU:CD1	2.30	0.51
38:4K:49:ILE:C	38:4N:72:ARG:HH21	2.18	0.51
38:4K:81:ALA:O	38:4K:85:LEU:HG	2.09	0.51
38:4L:38:VAL:O	38:4L:41:LYS:N	2.41	0.51
38:4M:82:TYR:N	38:4M:82:TYR:HD1	2.07	0.51
38:4N:81:ALA:O	38:4N:85:LEU:HG	2.09	0.51
40:4V:293:HIS:CE1	40:4V:301:LEU:HA	2.46	0.51
42:5H:94:CYS:H	43:5L:45:ASN:CA	2.23	0.51
13:5b:2:ARG:HH21	13:5b:243:ARG:HA	1.75	0.51
12:5c:311:LEU:HD23	12:5c:342:VAL:HG21	1.91	0.51
12:5g:73:MET:HE2	12:5g:90:PHE:HD2	1.75	0.51
47:6A:196:GLN:HE22	47:6A:200:GLN:NE2	2.03	0.51
47:6B:366:GLU:CD	3:6D:683:ARG:HD3	2.36	0.51
47:6B:770:PHE:HA	47:6B:771:PRO:C	2.36	0.51
47:6B:1290:ALA:O	47:6B:1294:VAL:HG23	2.11	0.51
47:6B:1441:LEU:HA	47:6B:1444:CYS:SG	2.51	0.51
3:6D:797:PRO:HA	3:6D:842:HIS:NE2	2.25	0.51
48:6E:75:LEU:HD11	48:6E:86:LEU:HD21	1.92	0.51
48:6E:310:ASP:H	48:6E:312:VAL:HG12	1.75	0.51
48:6E:858:TRP:CD1	48:6E:946:LEU:HB3	2.45	0.51
48:6E:858:TRP:HD1	48:6E:946:LEU:HB3	1.75	0.51
50:6L:318:LYS:HA	50:6L:321:ASP:OD2	2.10	0.51
12:7a:86:ARG:CG	12:8a:281:TYR:HB3	2.40	0.51
12:7e:161:ASP:O	12:7e:251:ARG:NH2	2.44	0.51
12:7g:86:ARG:HD3	12:8g:281:TYR:HB3	1.90	0.51
12:8e:6:HIS:HD2	12:8e:134:GLN:HG3	1.75	0.51
12:8e:206:ALA:O	12:8e:210:ILE:HG23	2.09	0.51
12:8g:91:VAL:CG1	12:8g:116:VAL:HG12	2.36	0.51
13:8h:2:ARG:HH21	13:8h:243:ARG:HA	1.75	0.51
12:9a:84:ILE:O	12:Aa:281:TYR:HE1	1.92	0.51
12:9c:151:LEU:O	12:9c:155:ILE:HG12	2.11	0.51
13:9h:272:TYR:HB3	13:9h:275:ILE:HD11	1.92	0.51
13:Ab:2:ARG:HD3	13:Ab:2:ARG:H	1.76	0.51
12:Ba:73:MET:HA	12:Ba:76:VAL:HG12	1.91	0.51
13:Bd:177:VAL:CG2	12:Be:327:ASP:HB3	2.41	0.51
13:Bd:324:VAL:HB	13:Bd:327:ASP:HB2	1.93	0.51
12:Be:117:LEU:HA	12:Be:120:VAL:HG12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bg:272:PRO:HD3	12:Bg:364:SER:HA	1.92	0.51
13:Cd:2:ARG:HD3	13:Cd:2:ARG:H	1.76	0.51
13:Ch:324:VAL:HB	13:Ch:327:ASP:HB2	1.93	0.51
13:Db:2:ARG:HH21	13:Db:243:ARG:HA	1.75	0.51
1:0H:370:HIS:O	1:0H:374:VAL:HG23	2.10	0.51
1:0J:353:LYS:HD3	1:0J:386:LEU:HD22	1.91	0.51
1:0J:363:ILE:HG22	1:0J:370:HIS:HB3	1.93	0.51
44:5P:93:PHE:HE2	44:5P:145:PHE:HD2	1.59	0.51
1:0A:90:TYR:CD2	47:6B:114:THR:HG22	2.46	0.51
1:0A:94:GLU:OE2	47:6B:110:LYS:HG2	2.11	0.51
1:0B:332:ILE:HG13	1:0B:370:HIS:HD1	1.72	0.51
1:0G:67:ARG:HA	1:0G:70:ASN:ND2	2.26	0.51
1:0M:82:ASN:HB2	1:0M:84:ILE:CD1	2.40	0.51
1:0P:89:VAL:HG11	1:0P:125:GLY:HA3	1.92	0.51
1:0P:368:PRO:HA	1:0P:410:LYS:HB3	1.93	0.51
1:1C:264:ASP:OD1	1:1C:265:GLU:N	2.43	0.51
1:1C:320:ILE:HB	1:1C:327:LEU:HD22	1.93	0.51
2:1G:224:ALA:O	2:1G:227:VAL:HG22	2.10	0.51
3:1H:168:GLN:HB3	3:1H:228:ASN:ND2	2.17	0.51
3:1H:668:PHE:HZ	3:1H:677:HIS:HB3	1.76	0.51
3:1H:798:ALA:H	3:1H:842:HIS:CE1	2.27	0.51
3:1I:708:LEU:O	3:1I:712:VAL:HG23	2.10	0.51
4:1J:245:SER:H	4:1J:248:GLU:HG3	1.76	0.51
4:1J:256:PHE:CZ	4:1J:258:PRO:HB3	2.45	0.51
6:1N:641:TRP:HD1	6:1N:653:GLN:CG	2.22	0.51
6:1N:1052:LEU:CD2	6:1N:1566:GLU:HA	2.40	0.51
6:1N:2045:LEU:HD13	6:1N:2132:SER:OG	2.11	0.51
7:1O:84:LEU:HB3	7:1O:89:LYS:HE3	1.93	0.51
7:1O:1128:PRO:HB3	7:1O:2137:THR:HG23	1.92	0.51
7:1O:1193:PRO:O	7:1O:1194:ARG:O	2.27	0.51
7:1O:2502:LEU:HB3	8:1P:800:TYR:CZ	2.46	0.51
10:1R:172:VAL:HG22	13:Ab:397:LEU:CD1	2.40	0.51
10:1R:342:LEU:HD13	12:Ac:190:HIS:CE1	2.45	0.51
12:1a:396:HIS:NE2	13:1b:261:PRO:O	2.43	0.51
12:1c:27:GLU:OE2	12:1c:318:ARG:NH2	2.37	0.51
12:1c:341:PHE:HB3	12:1c:348:ASN:ND2	2.25	0.51
13:1h:324:VAL:HB	13:1h:327:ASP:HB2	1.93	0.51
13:2b:77:GLU:OE2	12:2c:243:PRO:HB3	2.11	0.51
13:2b:328:VAL:O	13:2b:332:VAL:HG12	2.10	0.51
12:2c:87:PRO:HG2	12:3c:278:SER:OG	2.11	0.51
12:2e:206:ALA:O	12:2e:210:ILE:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:3F:327:GLY:C	13:7f:433:GLU:OE2	2.54	0.51
32:3J:248:ARG:HG3	32:3J:248:ARG:HH11	1.75	0.51
34:3M:204:MET:HE1	34:3P:288:MET:C	2.36	0.51
34:3M:433:TYR:O	34:3M:438:ILE:HD12	2.11	0.51
34:3N:199:ASP:OD2	34:3N:199:ASP:N	2.42	0.51
34:3P:446:GLN:O	34:3P:449:GLU:HG2	2.10	0.51
34:3R:258:TYR:HB2	34:3R:474:TRP:HD1	1.74	0.51
34:3S:276:GLU:OE1	34:3S:456:LEU:HD23	2.10	0.51
34:3U:345:ALA:O	34:3U:349:LEU:HG	2.09	0.51
34:3V:467:LEU:HB3	34:3X:500:TYR:CE1	2.45	0.51
34:3X:66:LYS:O	34:3X:70:GLU:HG3	2.10	0.51
13:3f:151:SER:HB2	13:3f:193:SER:OG	2.11	0.51
13:3h:2:ARG:HD3	13:3h:2:ARG:H	1.76	0.51
34:4A:303:SER:O	34:4A:306:VAL:HG22	2.11	0.51
35:4C:383:THR:HG23	35:4C:385:PRO:HD3	1.91	0.51
35:4C:471:VAL:HG11	35:4C:499:LEU:HD11	1.92	0.51
36:4D:175:PRO:HG3	36:4D:213:TRP:CE2	2.45	0.51
37:4E:578:ASP:OD1	43:5L:43:GLN:NE2	2.43	0.51
37:4F:1084:ARG:N	38:4N:41:LYS:HE3	2.25	0.51
37:4G:913:GLU:CG	37:4G:915:SER:HB3	2.40	0.51
37:4G:1333:VAL:CA	38:4L:24:THR:HA	2.36	0.51
37:4H:952:ASP:CG	37:4H:954:SER:HG	2.10	0.51
37:4H:967:SER:OG	37:4H:1075:VAL:HG13	2.08	0.51
37:4H:1084:ARG:CB	38:4M:38:VAL:HG22	2.41	0.51
37:4H:1144:LEU:HD11	38:4M:29:LYS:CB	2.41	0.51
37:4H:1161:SER:HA	37:4H:1188:ALA:HA	1.92	0.51
37:4H:1715:GLY:CA	37:4H:1754:TYR:HB2	2.40	0.51
38:4J:81:ALA:O	38:4J:85:LEU:HG	2.10	0.51
38:4K:30:ALA:C	38:4K:33:LYS:N	2.52	0.51
38:4K:57:VAL:HG11	38:4N:76:PRO:CG	2.27	0.51
38:4K:58:VAL:HG23	38:4K:59:PRO:HD3	1.92	0.51
38:4L:40:LYS:CE	38:4L:44:LEU:HD12	2.40	0.51
38:4N:27:ALA:HA	38:4N:30:ALA:H	1.75	0.51
38:4N:47:ALA:HA	38:4N:50:ARG:CB	2.40	0.51
39:4S:52:ARG:HH22	44:5U:124:GLU:HG2	1.74	0.51
40:4U:293:HIS:CE1	40:4U:301:LEU:HA	2.46	0.51
13:4h:328:VAL:O	13:4h:332:VAL:HG12	2.10	0.51
12:5a:7:ILE:HD13	12:5a:135:VAL:HG12	1.91	0.51
12:5a:275:SER:O	12:5a:278:SER:N	2.43	0.51
13:5b:251:ASP:H	13:5b:254:GLU:HB2	1.76	0.51
12:5e:86:ARG:NE	12:6e:281:TYR:O	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5g:87:PRO:HA	12:5g:90:PHE:CD1	2.46	0.51
13:5h:2:ARG:HH21	13:5h:243:ARG:HA	1.75	0.51
47:6A:1332:VAL:HG22	47:6A:1384:LEU:HD11	1.92	0.51
3:6D:856:ASN:O	3:6D:859:SER:OG	2.24	0.51
48:6E:132:LEU:HD21	48:6E:139:GLY:HA3	1.92	0.51
48:6E:251:LEU:HD13	48:6E:273:VAL:HG12	1.92	0.51
48:6F:722:ARG:NH1	49:6H:21:ASN:HD22	2.08	0.51
50:6K:289:GLU:OE1	50:6K:300:ALA:HB2	2.10	0.51
50:6K:318:LYS:HA	50:6K:321:ASP:OD2	2.10	0.51
51:6N:1593:LEU:HD22	51:6N:1653:ILE:HG21	1.92	0.51
51:6N:1706:GLY:HA3	51:6N:1710:LEU:HD23	1.92	0.51
12:6a:208:TYR:HA	12:6a:211:CYS:SG	2.51	0.51
13:6b:2:ARG:H	13:6b:2:ARG:HD3	1.76	0.51
13:6f:324:VAL:HB	13:6f:327:ASP:HB2	1.93	0.51
12:7a:232:VAL:HG22	12:7a:270:PHE:HB2	1.93	0.51
12:7c:87:PRO:HG2	12:8c:278:SER:HB2	1.92	0.51
12:7e:279:GLN:C	12:7e:281:TYR:N	2.63	0.51
13:8d:2:ARG:H	13:8d:2:ARG:HD3	1.76	0.51
12:9e:20:PHE:O	12:9e:23:VAL:HG12	2.10	0.51
12:9g:337:ASN:HB3	12:9g:340:TYR:HD2	1.75	0.51
13:Ab:272:TYR:HB3	13:Ab:275:ILE:HD11	1.92	0.51
13:Ad:212:ILE:O	13:Ad:216:SER:OG	2.25	0.51
12:Ae:222:PHE:CE2	13:Af:248:LEU:HG	2.45	0.51
12:Ba:274:THR:HG23	12:Ba:279:GLN:HG2	1.93	0.51
13:Bb:2:ARG:HD3	13:Bb:2:ARG:H	1.76	0.51
13:Bf:324:VAL:HB	13:Bf:327:ASP:HB2	1.93	0.51
13:Cb:2:ARG:HD3	13:Cb:2:ARG:H	1.76	0.51
12:Cc:73:MET:HE2	12:Cc:90:PHE:HD2	1.75	0.51
12:Cc:337:ASN:HB3	12:Cc:340:TYR:HD2	1.75	0.51
12:Da:64:ILE:HD13	12:Da:120:VAL:HG22	1.91	0.51
12:De:99:ASN:HD22	13:Df:258:ASN:ND2	2.09	0.51
12:Dg:219:THR:HG23	12:Dg:219:THR:O	2.11	0.51
1:0K:105:PHE:O	1:0K:108:ARG:HG2	2.11	0.51
1:0K:231:CYS:O	1:0K:235:GLN:HG2	2.10	0.51
1:0K:394:ASP:OD1	1:0K:395:ASP:N	2.44	0.51
1:0B:118:ALA:HB1	1:0B:152:ILE:HG12	1.93	0.51
1:0C:225:LEU:O	1:0C:229:VAL:HG22	2.11	0.51
1:0E:126:ALA:O	1:0E:129:SER:OG	2.26	0.51
1:0E:367:THR:HB	1:0E:370:HIS:CG	2.46	0.51
1:0F:316:ALA:O	1:0F:320:ILE:HG23	2.10	0.51
1:0P:108:ARG:HH12	1:0P:144:ALA:HB1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0U:349:GLU:HB2	1:0U:352:LEU:HB3	1.92	0.51
1:0V:34:ILE:HG23	1:0V:68:LEU:HD22	1.93	0.51
1:1A:196:LYS:HZ1	1:1A:197:HIS:CE1	2.28	0.51
1:1A:346:GLU:HG3	1:1A:347:GLU:OE1	2.10	0.51
2:1F:224:ALA:O	2:1F:227:VAL:HG22	2.10	0.51
3:1I:512:LEU:HD22	3:1I:569:VAL:HG23	1.92	0.51
3:1I:798:ALA:H	3:1I:842:HIS:CE1	2.28	0.51
4:1K:245:SER:H	4:1K:248:GLU:HG3	1.76	0.51
4:1K:268:LEU:HG	4:1K:282:LEU:HD13	1.92	0.51
6:1N:1784:ASP:HB2	8:1P:696:ARG:HE	1.74	0.51
6:1N:2544:VAL:HG11	6:1N:2556:ALA:N	2.26	0.51
7:1O:1088:ARG:HG3	7:1O:1167:LEU:HD22	1.91	0.51
7:1O:2512:TRP:HE3	7:1O:2513:PHE:CD1	2.29	0.51
10:1R:346:ALA:HB3	12:Ac:404:ASP:OD2	2.10	0.51
10:1S:157:ASN:HD22	12:9g:128:ASP:C	2.19	0.51
13:1d:324:VAL:HB	13:1d:327:ASP:HB2	1.93	0.51
13:2d:324:VAL:HB	13:2d:327:ASP:HB2	1.93	0.51
12:2e:117:LEU:HA	12:2e:120:VAL:HG12	1.91	0.51
13:2f:272:TYR:HB3	13:2f:275:ILE:HD11	1.91	0.51
32:3J:127:CYS:SG	32:3J:128:GLU:N	2.83	0.51
32:3K:51:LEU:HB2	32:3K:136:LEU:HG	1.93	0.51
34:3M:301:HIS:O	34:3M:304:SER:OG	2.23	0.51
34:3Q:366:VAL:HG22	34:3X:356:PHE:CZ	2.45	0.51
34:3S:405:ALA:HA	34:3S:408:ARG:HD3	1.93	0.51
34:3U:294:HIS:CE1	34:3U:437:GLY:HA3	2.46	0.51
34:3U:370:GLU:CG	34:3Z:360:VAL:HB	2.35	0.51
34:3Y:96:HIS:O	34:3Y:100:ILE:HG13	2.11	0.51
34:3Z:398:ARG:O	34:3Z:401:VAL:N	2.40	0.51
13:3d:324:VAL:HB	13:3d:327:ASP:HB2	1.93	0.51
13:3f:406:HIS:CD2	12:3g:261:PRO:HD3	2.45	0.51
34:4B:258:TYR:HE2	34:4B:477:GLU:CD	2.19	0.51
37:4E:589:PRO:HA	43:5L:18:ILE:CA	2.41	0.51
37:4F:506:MET:HE3	37:4F:508:PRO:HA	1.93	0.51
37:4G:668:PRO:O	37:4G:671:LEU:CG	2.58	0.51
37:4G:776:HIS:CE1	37:4G:1636:VAL:HG22	2.46	0.51
37:4G:854:TYR:CD2	37:4G:854:TYR:N	2.78	0.51
37:4G:1083:ILE:HG22	37:4G:1358:LEU:CD1	2.41	0.51
37:4G:1136:ARG:N	38:4L:33:LYS:CE	2.72	0.51
37:4G:1159:ASP:OD1	37:4G:1313:VAL:HG21	2.10	0.51
38:4J:42:ILE:O	38:4J:45:ALA:O	2.27	0.51
38:4J:47:ALA:N	38:4J:48:PRO:CD	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4K:47:ALA:N	38:4K:48:PRO:CD	2.74	0.51
38:4L:25:PRO:HA	38:4L:28:VAL:HG23	1.93	0.51
38:4N:40:LYS:CE	38:4N:44:LEU:HD12	2.40	0.51
13:4b:151:SER:HB2	13:4b:193:SER:OG	2.11	0.51
13:4d:2:ARG:HH21	13:4d:243:ARG:HA	1.75	0.51
13:4d:151:SER:HB2	13:4d:193:SER:OG	2.11	0.51
12:4g:73:MET:HE2	12:4g:90:PHE:HD2	1.75	0.51
12:4g:207:LEU:O	12:4g:210:ILE:HG22	2.11	0.51
13:4h:2:ARG:HH21	13:4h:243:ARG:HA	1.75	0.51
42:5E:62:HIS:O	42:5E:63:LYS:HG2	2.10	0.51
43:5J:27:LEU:O	43:5J:31:ASP:HB2	2.10	0.51
12:5c:330:MET:SD	12:5c:349:VAL:HG11	2.50	0.51
12:5g:207:LEU:O	12:5g:210:ILE:HG22	2.11	0.51
13:5h:251:ASP:H	13:5h:254:GLU:HB2	1.76	0.51
47:6A:770:PHE:CE2	47:6A:780:LEU:HD11	2.44	0.51
47:6A:1290:ALA:O	47:6A:1294:VAL:HG23	2.11	0.51
47:6B:981:LYS:CA	47:6B:984:ILE:HG12	2.31	0.51
48:6F:1017:PRO:HG3	48:6F:1029:ARG:HD3	1.91	0.51
49:6H:80:PRO:HB3	49:6H:419:GLU:HA	1.93	0.51
49:6H:271:GLU:HA	49:6H:274:GLU:HG3	1.92	0.51
51:6M:1706:GLY:HA3	51:6M:1710:LEU:HD23	1.92	0.51
13:6b:272:TYR:HB3	13:6b:275:ILE:HD11	1.92	0.51
13:6f:328:VAL:O	13:6f:332:VAL:HG12	2.10	0.51
12:6g:178:THR:HG22	13:6h:352:LYS:HZ2	1.75	0.51
13:6h:324:VAL:HB	13:6h:327:ASP:HB2	1.93	0.51
12:7a:50:TYR:CE2	12:7a:241:ARG:HD3	2.46	0.51
12:7a:101:TRP:HD1	12:7a:145:SER:OG	1.90	0.51
12:7c:183:TYR:OH	12:7c:388:MET:HB3	2.11	0.51
13:7f:2:ARG:HH21	13:7f:243:ARG:HA	1.75	0.51
12:8g:73:MET:HE2	12:8g:90:PHE:HD2	1.76	0.51
13:9f:328:VAL:O	13:9f:332:VAL:HG12	2.10	0.51
12:9g:151:LEU:O	12:9g:155:ILE:HG12	2.11	0.51
13:Ad:2:ARG:HH21	13:Ad:243:ARG:HA	1.75	0.51
13:Ad:272:TYR:HB3	13:Ad:275:ILE:HD11	1.92	0.51
12:Ba:396:HIS:CD2	13:Bb:263:PRO:HD3	2.45	0.51
13:Bd:151:SER:HB2	13:Bd:193:SER:OG	2.11	0.51
13:Bh:151:SER:HB2	13:Bh:193:SER:OG	2.11	0.51
12:Cc:179:VAL:HG23	13:Cd:352:LYS:HB2	1.93	0.51
13:Ch:151:SER:HB2	13:Ch:193:SER:OG	2.11	0.51
12:Da:208:TYR:CZ	12:Da:225:LEU:HD11	2.45	0.51
13:Db:328:VAL:O	13:Db:332:VAL:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0H:3:THR:HG23	1:0H:5:ALA:H	1.75	0.51
1:0H:108:ARG:NH1	1:0H:144:ALA:HB1	2.25	0.51
1:0W:394:ASP:N	1:0W:394:ASP:OD2	2.43	0.51
1:0I:248:VAL:CG1	1:0I:278:VAL:HG11	2.40	0.51
1:0A:92:LEU:HA	1:0A:100:LYS:HG2	1.92	0.51
1:0B:251:GLU:OE1	1:0B:254:PRO:HD3	2.11	0.51
1:0C:182:SER:O	1:0C:185:ARG:HG2	2.10	0.51
1:0M:320:ILE:HB	1:0M:327:LEU:HD22	1.93	0.51
1:0P:318:GLY:HA3	1:0P:359:THR:HG22	1.93	0.51
1:0Q:294:GLY:O	1:0Q:298:LEU:HD23	2.10	0.51
1:0Q:381:ALA:HA	1:0Q:423:ARG:NH2	2.26	0.51
1:0S:95:GLN:HG2	1:0S:96:ASN:N	2.26	0.51
1:0S:403:ALA:O	1:0S:407:VAL:HG23	2.10	0.51
1:0T:142:LYS:HB2	1:0T:183:LEU:HD11	1.91	0.51
1:0X:218:VAL:O	1:0X:226:LYS:NZ	2.38	0.51
1:0Y:273:THR:O	1:0Y:277:GLU:HG2	2.09	0.51
1:1B:224:LYS:HG2	1:1B:227:ARG:HH21	1.74	0.51
1:1B:344:LEU:HD23	1:1B:347:GLU:OE2	2.10	0.51
1:1B:383:LEU:HD21	1:1B:403:ALA:HB3	1.92	0.51
1:1C:223:ALA:HB2	1:1C:262:PHE:CZ	2.46	0.51
3:1H:144:ARG:HH22	47:6A:346:GLU:CD	2.19	0.51
3:1H:189:LEU:H	3:1H:189:LEU:HD23	1.76	0.51
3:1H:205:PRO:HA	47:6A:291:GLN:O	2.11	0.51
3:1H:228:ASN:HB2	3:1H:231:SER:OG	2.10	0.51
4:1J:63:ILE:CG2	4:1J:179:GLU:HG2	2.40	0.51
4:1J:268:LEU:HG	4:1J:282:LEU:HD13	1.92	0.51
4:1K:63:ILE:CG2	4:1K:179:GLU:HG2	2.40	0.51
4:1K:112:ARG:NH1	13:Bd:402:ARG:HG3	2.26	0.51
5:1M:523:TRP:CD2	5:1M:547:GLU:HG2	2.44	0.51
6:1N:510:TYR:HE2	6:1N:526:PRO:HD2	1.76	0.51
6:1N:1525:ALA:HB1	6:1N:1717:LYS:HD3	1.93	0.51
6:1N:1571:ALA:O	6:1N:1575:LEU:HG	2.11	0.51
6:1N:1775:VAL:HB	6:1N:1791:LEU:HD11	1.91	0.51
7:1O:362:ILE:HG23	7:1O:465:LEU:HD11	1.92	0.51
10:1S:395:VAL:CG2	13:Bf:338:LYS:HG3	2.37	0.51
10:1S:445:TRP:HZ3	12:Be:227:HIS:O	1.94	0.51
14:2F:41:TRP:HH2	12:Da:73:MET:HB2	1.75	0.51
15:2H:177:UNK:HA	13:6h:57:GLY:CA	2.39	0.51
24:2U:208:ARG:CZ	12:Cc:261:PRO:HB3	2.40	0.51
24:2U:217:ARG:HH21	12:Cc:420:SER:HB2	1.76	0.51
12:2a:1:MET:HA	12:2a:1:MET:HE2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2e:102:ALA:HB1	12:2e:401:GLU:OE1	2.10	0.51
13:2h:272:TYR:HB3	13:2h:275:ILE:HD11	1.92	0.51
30:3F:328:ILE:HG21	13:7f:386:GLU:N	2.25	0.51
30:3F:433:GLU:O	30:3F:437:ILE:HD12	2.11	0.51
31:3I:286:LEU:HD21	13:9h:400:ALA:HB2	1.93	0.51
31:3I:467:ARG:HB2	13:8f:433:GLU:HG3	1.91	0.51
32:3J:411:VAL:HG13	12:8a:410:GLU:OE1	2.10	0.51
34:3M:405:ALA:HA	34:3M:408:ARG:HD3	1.93	0.51
34:3O:49:PHE:CD2	34:3O:53:ILE:HD11	2.46	0.51
34:3O:103:LEU:HD13	34:3O:342:GLN:HG3	1.93	0.51
34:3O:366:VAL:HG13	34:3Y:356:PHE:CG	2.46	0.51
34:3O:490:GLN:CA	34:3O:493:LYS:HZ2	2.19	0.51
34:3T:77:GLN:HB3	34:3T:317:ARG:HH21	1.76	0.51
34:3U:75:GLN:HG2	34:3U:419:LEU:CD2	2.41	0.51
34:3V:407:MET:HB2	34:3V:408:ARG:NH1	2.25	0.51
12:3a:58:ARG:HE	12:3a:86:ARG:NH2	2.08	0.51
13:3b:151:SER:HB2	13:3b:193:SER:OG	2.11	0.51
13:3d:151:SER:HB2	13:3d:193:SER:OG	2.11	0.51
12:3g:170:VAL:HG21	12:3g:201:VAL:HG13	1.93	0.51
35:4C:556:TRP:N	35:4C:705:ARG:NH1	2.59	0.51
35:4C:945:LEU:HD12	37:4E:724:LEU:HG	1.93	0.51
37:4E:590:LYS:O	37:4E:591:PRO:C	2.53	0.51
37:4E:757:LEU:HD21	37:4E:801:VAL:HB	1.91	0.51
37:4E:1090:GLN:NE2	38:4O:30:ALA:HB1	2.25	0.51
37:4F:664:TYR:CE1	38:4K:50:ARG:NH2	2.79	0.51
37:4F:974:VAL:O	37:4F:976:ASP:N	2.43	0.51
37:4G:1302:ASN:HB2	37:4G:1318:TYR:HD1	1.75	0.51
37:4H:1156:LEU:HD23	37:4H:1162:VAL:HG22	1.92	0.51
38:4K:25:PRO:HA	38:4K:28:VAL:HG23	1.93	0.51
38:4L:80:LEU:O	38:4L:84:LEU:HD12	2.11	0.51
38:4M:32:GLU:HG3	38:4M:33:LYS:HZ1	1.76	0.51
38:4M:80:LEU:O	38:4M:84:LEU:HD12	2.11	0.51
38:4N:40:LYS:NZ	38:4N:40:LYS:O	2.43	0.51
38:4N:47:ALA:N	38:4N:48:PRO:CD	2.74	0.51
40:4V:69:VAL:O	40:4V:73:LEU:HG	2.11	0.51
41:4W:132:ARG:HA	41:4W:150:ARG:O	2.10	0.51
12:4a:249:ASP:OD1	12:4a:250:LEU:N	2.43	0.51
13:4b:224:TYR:HD2	12:4c:245:GLN:HG2	1.76	0.51
12:4c:68:LEU:HD21	12:4c:147:MET:SD	2.51	0.51
12:4c:267:MET:HE1	12:4c:305:PRO:HG3	1.91	0.51
13:4f:2:ARG:HH21	13:4f:243:ARG:HA	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4f:151:SER:HB2	13:4f:193:SER:OG	2.11	0.51
13:4f:272:TYR:HB3	13:4f:275:ILE:HD11	1.92	0.51
12:4g:60:VAL:HG21	12:4g:86:ARG:NH2	2.25	0.51
43:5I:27:LEU:O	43:5I:31:ASP:HB2	2.10	0.51
43:5J:134:SER:O	43:5J:137:ARG:HB3	2.10	0.51
43:5K:62:GLY:HA2	43:5K:67:PHE:CD2	2.45	0.51
44:5S:145:PHE:CE2	44:5S:149:MET:SD	3.04	0.51
44:5U:93:PHE:CZ	44:5U:145:PHE:CE2	2.99	0.51
12:5a:20:PHE:O	12:5a:24:VAL:HG23	2.10	0.51
12:5a:253:LEU:HD23	12:5a:368:ILE:HD12	1.91	0.51
12:5e:86:ARG:HD2	12:6e:281:TYR:HB3	1.91	0.51
12:5e:284:LEU:HD23	12:5e:363:MET:HE2	1.92	0.51
13:5f:212:ILE:O	13:5f:216:SER:OG	2.25	0.51
47:6A:60:TYR:HD1	47:6A:74:MET:HE2	1.76	0.51
47:6A:408:LEU:HA	47:6A:411:ARG:HD2	1.92	0.51
47:6A:770:PHE:HA	47:6A:771:PRO:C	2.36	0.51
47:6B:1332:VAL:HG22	47:6B:1384:LEU:HD11	1.92	0.51
3:6D:683:ARG:NE	3:6D:754:PHE:CZ	2.79	0.51
3:6D:854:LEU:HD12	3:6D:953:ILE:HG23	1.92	0.51
48:6F:99:ASP:O	48:6F:100:ASN:ND2	2.43	0.51
49:6G:271:GLU:HA	49:6G:274:GLU:HG3	1.92	0.51
49:6H:193:ASN:O	49:6H:441:ALA:HB2	2.10	0.51
50:6K:71:ALA:O	50:6K:75:ILE:HG12	2.10	0.51
50:6L:71:ALA:O	50:6L:75:ILE:HG12	2.10	0.51
51:6M:1399:VAL:O	51:6M:1402:ARG:N	2.44	0.51
51:6M:1493:GLN:HG2	51:6M:1501:THR:HG22	1.92	0.51
51:6N:1399:VAL:O	51:6N:1402:ARG:N	2.44	0.51
51:6N:1798:VAL:HG13	51:6N:1898:LEU:HA	1.93	0.51
12:6c:337:ASN:HB3	12:6c:340:TYR:HD2	1.75	0.51
13:8b:2:ARG:HD3	13:8b:2:ARG:H	1.76	0.51
13:8f:2:ARG:HD3	13:8f:2:ARG:H	1.76	0.51
13:8h:2:ARG:HD3	13:8h:2:ARG:H	1.76	0.51
12:9a:238:CYS:SG	12:9a:239:CYS:N	2.83	0.51
12:9a:350:LYS:HZ2	12:9a:352:SER:HB2	1.76	0.51
12:9e:101:TRP:HD1	12:9e:145:SER:OG	1.94	0.51
12:9g:183:TYR:OH	12:9g:388:MET:HB3	2.10	0.51
13:9h:2:ARG:HD3	13:9h:2:ARG:H	1.76	0.51
13:9h:328:VAL:O	13:9h:332:VAL:HG12	2.10	0.51
12:Aa:21:TRP:CD1	12:Aa:85:PHE:HE1	2.29	0.51
12:Aa:60:VAL:CG1	12:Aa:86:ARG:HD2	2.41	0.51
13:Ad:2:ARG:HD3	13:Ad:2:ARG:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Af:2:ARG:HD3	13:Af:2:ARG:H	1.76	0.51
12:Ag:272:PRO:HD3	12:Ag:364:SER:HA	1.92	0.51
12:Ag:415:MET:O	12:Ag:419:VAL:HG23	2.11	0.51
13:Bh:2:ARG:HH21	13:Bh:243:ARG:HA	1.75	0.51
13:Cb:151:SER:HB2	13:Cb:193:SER:OG	2.11	0.51
13:Cd:151:SER:HB2	13:Cd:193:SER:OG	2.11	0.51
13:Cd:324:VAL:HB	13:Cd:327:ASP:HB2	1.93	0.51
12:Ce:257:LEU:HA	12:Ce:312:THR:HG21	1.92	0.51
13:Cf:324:VAL:HB	13:Cf:327:ASP:HB2	1.93	0.51
13:Db:394:LYS:HB3	12:Dc:346:PRO:HG3	1.91	0.51
12:De:396:HIS:ND1	13:Df:263:PRO:HG3	2.25	0.51
1:0H:367:THR:HB	1:0H:370:HIS:CG	2.46	0.51
1:0A:233:LEU:HD13	1:0A:252:ILE:HG21	1.92	0.51
1:0D:154:GLY:HA2	1:0D:197:HIS:NE2	2.26	0.51
1:0N:179:PRO:HG3	32:3J:95:LYS:HB3	1.93	0.51
1:0O:198:THR:HB	1:0O:201:LEU:HG	1.93	0.51
1:0R:358:TRP:NE1	47:6B:274:ILE:HG23	2.25	0.51
1:0U:45:LEU:C	1:0U:48:PRO:HD2	2.35	0.51
1:0V:233:LEU:HD13	1:0V:252:ILE:HG21	1.93	0.51
1:1C:210:ALA:O	1:1C:214:LEU:HG	2.11	0.51
1:1C:318:GLY:HA3	1:1C:359:THR:HG22	1.93	0.51
1:1C:391:ALA:HB3	1:1C:396:LEU:HD12	1.93	0.51
2:1D:517:ALA:C	6:1N:1993:GLY:HA3	2.35	0.51
2:1E:62:LEU:HD12	2:1G:28:PHE:CD2	2.46	0.51
2:1E:391:LYS:HE2	2:1E:425:ALA:HB1	1.93	0.51
2:1F:248:ASP:N	2:1F:248:ASP:OD1	2.44	0.51
2:1G:232:ALA:C	2:1G:235:PRO:HD2	2.36	0.51
3:1H:852:ASP:OD2	47:6A:382:SER:HA	2.11	0.51
5:1L:523:TRP:CD2	5:1L:547:GLU:HG2	2.44	0.51
6:1N:1914:ARG:HA	6:1N:1917:LEU:HG	1.91	0.51
7:1O:2503:GLU:N	8:1P:800:TYR:OH	2.44	0.51
7:1O:3185:ARG:CZ	7:1O:3213:LEU:HG	2.41	0.51
9:1Q:739:VAL:C	9:1Q:741:LEU:H	2.18	0.51
10:1R:298:LEU:HD11	31:3H:129:GLU:HB3	1.93	0.51
13:1b:324:VAL:HB	13:1b:327:ASP:HB2	1.93	0.51
12:1c:267:MET:HG2	12:1c:301:CYS:HB3	1.93	0.51
23:2Q:52:UNK:CA	12:3g:291:GLN:HE22	2.23	0.51
24:2U:180:ARG:O	24:2U:183:GLU:HG3	2.11	0.51
12:2a:6:HIS:HD2	12:2a:134:GLN:HG3	1.75	0.51
12:2a:285:THR:HG23	12:2a:288:GLU:H	1.75	0.51
12:2e:274:THR:HG22	12:2e:282:ARG:HD3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2h:324:VAL:HB	13:2h:327:ASP:HB2	1.93	0.51
31:3I:467:ARG:HA	13:8f:430:LYS:NZ	2.26	0.51
34:3M:280:TRP:HA	34:3M:283:THR:HG22	1.92	0.51
34:3M:280:TRP:HB2	34:3M:452:HIS:CD2	2.46	0.51
34:3P:330:GLU:OE1	34:3P:403:ARG:NH1	2.44	0.51
34:3T:91:GLU:OE1	34:3T:95:ARG:HD2	2.10	0.51
34:3T:346:ALA:O	34:3T:350:ASN:ND2	2.44	0.51
34:3X:398:ARG:O	34:3X:401:VAL:N	2.40	0.51
13:3b:407:TRP:HE1	12:3c:258:ILE:HB	1.76	0.51
13:3d:2:ARG:HD3	13:3d:2:ARG:H	1.76	0.51
13:3f:2:ARG:HD3	13:3f:2:ARG:H	1.76	0.51
12:3g:183:TYR:OH	12:3g:388:MET:HB3	2.11	0.51
13:3h:262:TYR:CZ	39:4Q:168:HIS:HD2	2.29	0.51
34:4A:407:MET:HB3	34:4A:408:ARG:NH2	2.25	0.51
35:4C:900:ILE:HD11	35:4C:914:ARG:HG3	1.92	0.51
37:4E:589:PRO:CB	43:5L:18:ILE:N	2.73	0.51
37:4E:959:LEU:HB3	37:4E:971:ALA:HB3	1.92	0.51
37:4E:1111:VAL:HG12	42:5H:48:ALA:HB3	1.92	0.51
37:4F:1323:ILE:C	37:4F:1323:ILE:CG2	2.83	0.51
37:4F:1341:ILE:CG2	37:4F:1350:ILE:HG12	2.40	0.51
37:4F:1724:ARG:HB3	37:4F:1727:LEU:HD12	1.93	0.51
37:4G:534:HIS:HE2	37:4G:538:GLU:CD	2.15	0.51
37:4G:692:MET:CG	38:4I:60:VAL:HG22	2.40	0.51
37:4G:967:SER:OG	37:4G:1076:THR:O	2.25	0.51
37:4G:1088:ASP:O	37:4G:1090:GLN:HB2	2.11	0.51
37:4H:935:ARG:HH22	38:4J:72:ARG:C	2.18	0.51
37:4H:1333:VAL:CG1	38:4M:27:ALA:HB3	2.35	0.51
38:4J:40:LYS:CE	38:4J:44:LEU:HD12	2.40	0.51
38:4K:82:TYR:N	38:4K:82:TYR:HD1	2.08	0.51
38:4L:47:ALA:N	38:4L:48:PRO:CD	2.74	0.51
38:4M:25:PRO:HA	38:4M:28:VAL:HG23	1.93	0.51
38:4N:33:LYS:CE	38:4N:33:LYS:HA	2.32	0.51
40:4V:281:GLN:HA	40:4V:284:LEU:HD12	1.92	0.51
40:4V:290:PRO:HB2	40:4V:293:HIS:HB2	1.92	0.51
13:4d:272:TYR:HB3	13:4d:275:ILE:HD11	1.92	0.51
42:5G:62:HIS:O	42:5G:63:LYS:HG2	2.10	0.51
42:5H:97:HIS:H	43:5L:44:THR:CB	2.23	0.51
42:5H:136:HIS:HA	43:5L:51:HIS:CG	2.46	0.51
42:5H:140:TYR:CE2	43:5L:144:TYR:CD2	2.98	0.51
43:5I:62:GLY:HA2	43:5I:67:PHE:CD2	2.45	0.51
12:5a:206:ALA:O	12:5a:210:ILE:HG23	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5b:151:SER:HB2	13:5b:193:SER:OG	2.11	0.51
12:5e:117:LEU:HA	12:5e:120:VAL:HG22	1.91	0.51
47:6A:1555:THR:HG21	47:6A:1746:ALA:HB3	1.93	0.51
47:6B:408:LEU:HA	47:6B:411:ARG:HD2	1.92	0.51
3:6D:888:SER:HB2	3:6D:914:LYS:HB2	1.91	0.51
3:6D:900:ALA:HB1	3:6D:909:LEU:HG	1.91	0.51
48:6F:353:ILE:O	48:6F:354:PRO:C	2.52	0.51
48:6F:858:TRP:HD1	48:6F:946:LEU:HB3	1.75	0.51
51:6M:2041:THR:HG22	51:6M:2081:GLU:HG3	1.93	0.51
12:6a:184:ASN:OD1	12:6a:398:TYR:OH	2.24	0.51
13:6b:328:VAL:O	13:6b:332:VAL:HG12	2.10	0.51
13:6d:2:ARG:HD3	13:6d:2:ARG:H	1.76	0.51
13:6d:272:TYR:HB3	13:6d:275:ILE:HD11	1.92	0.51
13:6f:272:TYR:HB3	13:6f:275:ILE:HD11	1.92	0.51
13:6h:192:HIS:HE1	1:0K:4:ARG:HD3	1.76	0.51
13:6h:272:TYR:HB3	13:6h:275:ILE:HD11	1.92	0.51
12:7a:48:ASN:O	12:7a:62:ARG:NH2	2.43	0.51
12:7c:55:THR:HG23	12:8c:282:ARG:O	2.11	0.51
13:7d:2:ARG:HH21	13:7d:243:ARG:HA	1.75	0.51
12:7g:159:TYR:HB3	12:7g:162:ARG:HG3	1.92	0.51
12:7g:246:LEU:HB3	12:7g:353:VAL:HG12	1.91	0.51
12:8a:274:THR:HG22	12:8a:282:ARG:HD3	1.92	0.51
12:8a:394:PHE:CE1	13:8b:261:PRO:HA	2.45	0.51
13:8d:56:THR:HG21	13:9d:283:HIS:O	2.10	0.51
12:8g:134:GLN:HA	12:8g:165:LEU:O	2.10	0.51
13:8h:324:VAL:HB	13:8h:327:ASP:HB2	1.93	0.51
12:9a:161:ASP:N	12:9a:161:ASP:OD1	2.43	0.51
12:9c:337:ASN:HB3	12:9c:340:TYR:HD2	1.75	0.51
13:9d:328:VAL:O	13:9d:332:VAL:HG12	2.10	0.51
12:9g:284:LEU:HD21	12:9g:362:LYS:HB3	1.93	0.51
12:Ac:173:PRO:HA	12:Ac:380:ARG:HD2	1.93	0.51
12:Ae:18:ALA:HB2	12:Ae:76:VAL:HG23	1.93	0.51
12:Ae:208:TYR:CE1	13:Af:326:LYS:HB2	2.46	0.51
13:Af:2:ARG:HH21	13:Af:243:ARG:HA	1.75	0.51
13:Af:272:TYR:HB3	13:Af:275:ILE:HD11	1.92	0.51
12:Ag:179:VAL:HG23	12:Ag:180:VAL:HG13	1.92	0.51
12:Ag:267:MET:HE1	12:Ag:305:PRO:HG3	1.91	0.51
12:Be:48:ASN:O	12:Be:62:ARG:NH2	2.43	0.51
13:Bh:324:VAL:HB	13:Bh:327:ASP:HB2	1.93	0.51
13:Cf:151:SER:HB2	13:Cf:193:SER:OG	2.11	0.51
12:Da:206:ALA:O	12:Da:210:ILE:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:De:6:HIS:HD2	12:De:134:GLN:HG3	1.75	0.51
1:0I:138:ASP:OD1	1:0I:139:PRO:HD2	2.11	0.51
1:0K:223:ALA:HB2	1:0K:262:PHE:CZ	2.46	0.51
1:0B:95:GLN:HG2	1:0B:96:ASN:N	2.26	0.51
1:0B:273:THR:O	1:0B:277:GLU:HG2	2.10	0.51
1:0D:224:LYS:O	1:0D:228:GLN:HG2	2.11	0.51
1:0N:257:LEU:HD21	1:0N:294:GLY:HA2	1.92	0.51
1:0O:227:ARG:HG3	1:0O:267:VAL:HG22	1.93	0.51
1:0R:218:VAL:O	1:0R:226:LYS:NZ	2.44	0.51
1:0T:252:ILE:HG22	1:0T:256:ILE:HG12	1.93	0.51
1:0Z:257:LEU:HD21	1:0Z:294:GLY:HA2	1.93	0.51
1:1A:237:ALA:HB2	1:1A:247:VAL:HG21	1.93	0.51
1:1B:106:CYS:O	1:1B:110:VAL:HG23	2.10	0.51
1:1B:363:ILE:HG22	1:1B:370:HIS:HB3	1.93	0.51
1:1B:390:GLY:HA2	1:1B:397:LYS:CE	2.41	0.51
1:1C:222:ASP:HB2	1:1C:225:LEU:HD13	1.93	0.51
2:1D:21:VAL:HG21	2:1F:46:LEU:HD21	1.92	0.51
3:1H:512:LEU:HD23	3:1H:524:ARG:NH1	2.21	0.51
3:1I:189:LEU:H	3:1I:189:LEU:HD23	1.76	0.51
3:1I:916:LEU:HD22	3:1I:921:VAL:CG2	2.41	0.51
5:1L:380:PHE:HZ	5:1L:508:THR:HG21	1.76	0.51
5:1M:380:PHE:HZ	5:1M:508:THR:HG21	1.76	0.51
6:1N:2662:TRP:CH2	6:1N:2665:LEU:HA	2.46	0.51
7:1O:768:LEU:HD11	8:1P:858:LEU:HD11	1.93	0.51
9:1Q:800:THR:O	9:1Q:801:PHE:O	2.28	0.51
10:1R:366:LYS:HD2	12:Bc:291:GLN:O	2.11	0.51
10:1S:376:LEU:HD12	13:Af:96:LYS:CD	2.37	0.51
10:1S:383:GLY:HA3	13:Bf:207:GLU:CD	2.36	0.51
10:1S:392:LEU:HD23	13:Bf:293:ASN:O	2.11	0.51
12:1e:208:TYR:CE1	12:1e:225:LEU:HD11	2.46	0.51
13:1f:151:SER:HB2	13:1f:193:SER:OG	2.11	0.51
21:2O:9:UNK:HA	12:6c:355:ASP:OD2	2.11	0.51
24:2T:144:LYS:HD3	24:2T:165:LEU:HD13	1.93	0.51
13:2b:272:TYR:HB3	13:2b:275:ILE:HD11	1.92	0.51
12:2c:151:LEU:O	12:2c:155:ILE:HG12	2.10	0.51
12:2c:175:VAL:HG11	13:2d:332:VAL:CG1	2.41	0.51
12:2c:183:TYR:OH	12:2c:388:MET:HB3	2.11	0.51
28:3C:539:GLU:CG	13:4h:339:ARG:HE	2.23	0.51
29:3E:1145:THR:HG22	13:5f:262:TYR:CE1	2.45	0.51
30:3F:301:VAL:CG2	13:6f:428:LEU:CA	2.88	0.51
31:3H:148:TYR:CE1	31:3H:172:LEU:HD22	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:3J:118:TYR:OH	32:3J:137:HIS:HD2	1.93	0.51
33:3L:87:GLU:HA	33:3L:115:PHE:HZ	1.76	0.51
34:3M:244:ARG:HD2	34:3M:245:ASN:O	2.10	0.51
34:3N:327:VAL:HG21	34:3N:404:HIS:HB3	1.93	0.51
34:3N:489:MET:HG2	34:3U:251:LEU:CD2	2.40	0.51
34:3T:327:VAL:HG11	34:3T:404:HIS:HB3	1.91	0.51
34:3U:75:GLN:HG2	34:3U:419:LEU:HD22	1.92	0.51
34:3U:348:LYS:HZ2	34:3U:382:LEU:HD22	1.74	0.51
13:3b:2:ARG:HD3	13:3b:2:ARG:H	1.76	0.51
12:3c:48:ASN:O	12:3c:62:ARG:NH2	2.42	0.51
12:3e:322:SER:O	12:3e:326:VAL:HG23	2.10	0.51
13:3f:2:ARG:HH21	13:3f:243:ARG:HA	1.75	0.51
12:3g:267:MET:HG2	12:3g:301:CYS:HB3	1.93	0.51
13:3h:2:ARG:HH21	13:3h:243:ARG:HA	1.75	0.51
13:3h:151:SER:HB2	13:3h:193:SER:OG	2.11	0.51
36:4D:248:VAL:HG12	36:4D:251:GLY:H	1.76	0.51
37:4E:1154:ARG:HH22	37:4E:1303:VAL:HG22	1.76	0.51
37:4G:854:TYR:CB	38:4L:85:LEU:HD12	2.39	0.51
37:4G:1724:ARG:HB3	37:4G:1727:LEU:HD12	1.93	0.51
37:4H:623:ARG:HH12	37:4H:688:LEU:HD21	1.76	0.51
37:4H:1715:GLY:HA3	37:4H:1754:TYR:HB2	1.92	0.51
38:4K:40:LYS:CE	38:4K:44:LEU:HD12	2.40	0.51
38:4K:42:ILE:O	38:4K:45:ALA:O	2.27	0.51
38:4L:68:LEU:CD1	38:4L:80:LEU:HB2	2.31	0.51
38:4M:25:PRO:C	38:4M:28:VAL:N	2.61	0.51
38:4M:47:ALA:N	38:4M:48:PRO:CD	2.74	0.51
38:4O:35:ALA:HA	38:4O:38:VAL:HG22	1.93	0.51
39:4R:198:VAL:O	39:4R:202:LEU:HG	2.11	0.51
40:4T:69:VAL:O	40:4T:73:LEU:HG	2.11	0.51
40:4T:207:SER:O	40:4T:211:ILE:HG12	2.11	0.51
40:4U:719:ASP:O	40:4U:723:VAL:HG12	2.10	0.51
13:4b:272:TYR:HB3	13:4b:275:ILE:HD11	1.91	0.51
12:4e:60:VAL:HG23	12:4e:86:ARG:HD3	1.92	0.51
13:4h:151:SER:HB2	13:4h:193:SER:OG	2.11	0.51
42:5H:91:TYR:CG	43:5L:42:TYR:HB3	2.46	0.51
42:5H:128:PHE:O	42:5H:131:ARG:N	2.44	0.51
42:5H:139:LEU:O	43:5L:146:TYR:HA	2.09	0.51
43:5I:134:SER:O	43:5I:137:ARG:HB3	2.10	0.51
43:5J:91:LEU:HD22	43:5J:95:ARG:HB3	1.92	0.51
44:5R:93:PHE:HB3	44:5R:142:TYR:HB2	1.93	0.51
12:5a:395:LEU:HD13	12:5a:405:GLU:CD	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5b:403:ALA:CB	12:5c:344:TRP:HZ3	2.22	0.51
13:5d:151:SER:HB2	13:5d:193:SER:OG	2.11	0.51
13:5d:251:ASP:H	13:5d:254:GLU:HB2	1.76	0.51
13:5f:251:ASP:H	13:5f:254:GLU:HB2	1.76	0.51
13:5h:2:ARG:HD3	13:5h:2:ARG:H	1.75	0.51
13:5h:151:SER:HB2	13:5h:193:SER:OG	2.11	0.51
13:5h:212:ILE:O	13:5h:216:SER:OG	2.25	0.51
47:6A:845:ASP:OD1	47:6A:870:LEU:HD22	2.11	0.51
47:6A:1633:PHE:CD2	47:6A:1747:LEU:HD22	2.46	0.51
47:6B:60:TYR:HD1	47:6B:74:MET:HE2	1.76	0.51
47:6B:371:MET:HE3	3:6D:936:ILE:HD12	1.92	0.51
47:6B:629:ALA:HA	47:6B:632:MET:HG3	1.91	0.51
48:6E:131:ARG:NH2	49:6G:279:THR:HG21	2.25	0.51
48:6E:200:SER:OG	48:6E:202:ARG:HG3	2.11	0.51
48:6E:353:ILE:O	48:6E:354:PRO:C	2.52	0.51
49:6G:80:PRO:HB3	49:6G:419:GLU:HA	1.93	0.51
49:6H:437:ILE:HD13	49:6H:454:LEU:HD11	1.92	0.51
49:6J:192:PHE:HB2	49:6J:212:ILE:HG13	1.93	0.51
51:6M:1410:SER:O	51:6M:1414:VAL:HG23	2.11	0.51
12:6c:272:PRO:HD3	12:6c:364:SER:HA	1.93	0.51
13:6f:2:ARG:HD3	13:6f:2:ARG:H	1.76	0.51
12:6g:177:ASP:N	12:6g:181:GLU:OE2	2.44	0.51
13:6h:328:VAL:O	13:6h:332:VAL:HG12	2.10	0.51
13:7h:324:VAL:HB	13:7h:327:ASP:HB2	1.93	0.51
12:8a:232:VAL:HG22	12:8a:270:PHE:HB2	1.93	0.51
12:8g:272:PRO:HD3	12:8g:364:SER:HA	1.92	0.51
12:9a:376:GLU:O	12:9a:379:LYS:HG3	2.11	0.51
13:9d:2:ARG:H	13:9d:2:ARG:HD3	1.76	0.51
13:9f:151:SER:HB2	13:9f:193:SER:OG	2.11	0.51
13:Ab:151:SER:HB2	13:Ab:193:SER:OG	2.11	0.51
13:Ah:2:ARG:H	13:Ah:2:ARG:HD3	1.76	0.51
13:Ah:128:ASN:ND2	13:Bh:285:GLN:HG3	2.25	0.51
12:Bc:207:LEU:HB3	12:Bc:225:LEU:HD22	1.93	0.51
13:Bf:151:SER:HB2	13:Bf:193:SER:OG	2.11	0.51
13:Bh:251:ASP:H	13:Bh:254:GLU:HB2	1.76	0.51
12:Ca:238:CYS:SG	12:Ca:239:CYS:N	2.83	0.51
13:Cb:324:VAL:HB	13:Cb:327:ASP:HB2	1.93	0.51
12:Cc:248:ALA:HA	12:Cc:252:LYS:HD2	1.92	0.51
12:Cg:267:MET:HG2	12:Cg:301:CYS:HB3	1.92	0.51
12:Dc:274:THR:HG21	12:Dc:279:GLN:HA	1.93	0.51
12:De:27:GLU:O	12:De:359:LYS:HE3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:De:64:ILE:HD13	12:De:120:VAL:HG22	1.92	0.51
1:0W:67:ARG:HA	1:0W:70:ASN:ND2	2.26	0.51
1:0K:210:ALA:O	1:0K:214:LEU:HG	2.11	0.51
1:0K:346:GLU:HG3	1:0K:347:GLU:CD	2.36	0.51
1:0B:168:ALA:O	1:0B:172:LEU:HG	2.10	0.51
1:0C:23:ALA:O	1:0C:27:MET:HG2	2.11	0.51
1:0D:252:ILE:HG22	1:0D:256:ILE:HG12	1.94	0.51
1:0E:47:ARG:HG3	1:0E:84:ILE:HG12	1.93	0.51
1:0F:157:ALA:HB2	1:0F:197:HIS:ND1	2.25	0.51
1:0L:65:LEU:HD22	1:0L:84:ILE:HG21	1.92	0.51
1:0M:87:GLN:HA	1:0M:90:TYR:HD2	1.76	0.51
1:0M:227:ARG:HG3	1:0M:267:VAL:HG22	1.93	0.51
1:0N:85:LEU:HA	1:0N:88:LEU:HD12	1.93	0.51
1:0N:358:TRP:CD1	1:0N:362:GLN:HE22	2.29	0.51
1:0Q:270:HIS:O	1:0Q:274:VAL:HG23	2.11	0.51
1:0V:12:ARG:O	1:0V:16:GLU:HG2	2.11	0.51
1:0V:238:LYS:HZ2	1:0V:239:HIS:CD2	2.29	0.51
1:0Z:252:ILE:HG22	1:0Z:256:ILE:HG12	1.93	0.51
1:1B:115:PRO:HB3	1:1B:156:ASN:CG	2.36	0.51
2:1E:181:ARG:HA	2:1E:223:MET:HE2	1.93	0.51
3:1I:576:THR:HA	3:1I:629:TRP:CZ3	2.46	0.51
10:1R:446:CYS:HA	12:Ba:361:LEU:HD21	1.91	0.51
10:1S:57:LYS:HE3	13:Ah:339:ARG:HH11	1.75	0.51
10:1S:445:TRP:CZ3	12:Be:227:HIS:CD2	2.98	0.51
13:1b:251:ASP:H	13:1b:254:GLU:HB2	1.76	0.51
24:2T:120:THR:HA	24:2T:123:HIS:CD2	2.46	0.51
24:2U:142:GLY:O	13:Cd:120:ASP:OD1	2.28	0.51
12:2a:216:LYS:HB2	12:2a:275:SER:OG	2.11	0.51
12:2c:72:THR:O	12:2c:76:VAL:HG13	2.10	0.51
12:2g:183:TYR:OH	12:2g:388:MET:HB3	2.11	0.51
32:3J:383:TYR:HB2	32:3J:401:GLN:HE22	1.76	0.51
34:3M:320:LEU:HD12	34:3M:324:HIS:CD2	2.46	0.51
34:3N:405:ALA:HA	34:3N:408:ARG:HD3	1.93	0.51
34:3T:266:HIS:HA	34:3T:463:HIS:HE1	1.75	0.51
34:3T:405:ALA:HA	34:3T:408:ARG:HD3	1.93	0.51
34:3U:274:ILE:HG13	34:3U:275:ASN:N	2.26	0.51
34:3W:270:ILE:O	34:3W:274:ILE:HG13	2.11	0.51
34:3X:493:LYS:O	34:3X:497:MET:HG2	2.11	0.51
34:3Y:37:ASN:O	34:3Y:41:THR:HG23	2.11	0.51
34:3Z:64:HIS:HE1	34:3Z:427:ALA:HA	1.75	0.51
13:3b:2:ARG:HH21	13:3b:243:ARG:HA	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3h:199:ASP:HA	39:4Q:175:GLN:NE2	2.26	0.51
37:4E:575:SER:HB2	43:5L:30:ARG:HB3	1.91	0.51
37:4F:776:HIS:CE1	37:4F:1636:VAL:HG22	2.46	0.51
37:4F:1394:PRO:HG2	37:4F:1399:LEU:HD11	1.92	0.51
37:4G:1093:VAL:HA	38:4L:36:VAL:C	2.36	0.51
37:4H:954:SER:HA	38:4M:48:PRO:CA	2.41	0.51
37:4H:954:SER:HA	38:4M:48:PRO:CG	2.40	0.51
37:4H:1084:ARG:H	38:4M:34:ALA:C	2.19	0.51
37:4H:1156:LEU:HD23	37:4H:1162:VAL:CG2	2.41	0.51
38:4K:80:LEU:O	38:4K:84:LEU:HD12	2.11	0.51
38:4L:77:VAL:HG12	38:4L:78:GLU:N	2.26	0.51
38:4L:82:TYR:N	38:4L:82:TYR:HD1	2.08	0.51
40:4U:207:SER:O	40:4U:211:ILE:HG12	2.11	0.51
40:4V:207:SER:O	40:4V:211:ILE:HG12	2.11	0.51
13:4b:2:ARG:HH21	13:4b:243:ARG:HA	1.75	0.51
41:5A:117:ALA:HB3	43:5L:169:LEU:CD2	2.39	0.51
41:5A:144:HIS:H	41:5A:164:GLY:CA	2.24	0.51
42:5H:158:MET:CB	43:5L:158:HIS:HA	2.39	0.51
42:5H:158:MET:N	43:5L:158:HIS:HA	2.21	0.51
43:5I:136:TYR:HA	43:5I:139:TYR:HB2	1.93	0.51
43:5K:91:LEU:HD22	43:5K:95:ARG:HB3	1.92	0.51
43:5L:14:GLN:O	43:5L:18:ILE:CD1	2.59	0.51
43:5L:62:GLY:HA2	43:5L:67:PHE:CD2	2.45	0.51
43:5L:96:SER:OG	43:5L:136:TYR:HE1	1.94	0.51
44:5T:108:GLU:O	44:5T:112:VAL:HG23	2.11	0.51
13:5d:2:ARG:HH21	13:5d:243:ARG:HA	1.75	0.51
12:5e:178:THR:HG23	12:5e:181:GLU:HB2	1.93	0.51
13:5f:2:ARG:HD3	13:5f:2:ARG:H	1.75	0.51
13:5f:151:SER:HB2	13:5f:193:SER:OG	2.11	0.51
47:6A:879:ASP:O	47:6A:883:ILE:HG13	2.11	0.51
47:6A:1160:LEU:HD12	47:6A:1161:ALA:H	1.76	0.51
47:6B:845:ASP:OD1	47:6B:870:LEU:HD22	2.11	0.51
47:6B:879:ASP:O	47:6B:883:ILE:HG13	2.11	0.51
47:6B:968:ALA:O	47:6B:971:SER:OG	2.27	0.51
48:6E:115:THR:C	48:6E:143:LEU:HD12	2.36	0.51
48:6F:200:SER:OG	48:6F:202:ARG:HG3	2.11	0.51
48:6F:879:SER:HA	48:6F:920:GLN:HA	1.93	0.51
49:6G:192:PHE:HB2	49:6G:212:ILE:HG13	1.93	0.51
49:6G:193:ASN:O	49:6G:441:ALA:HB2	2.10	0.51
49:6I:192:PHE:HB2	49:6I:212:ILE:HG13	1.93	0.51
49:6J:299:MET:HE3	49:6J:314:LYS:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6N:1473:LEU:HD22	51:6N:1475:GLU:OE2	2.10	0.51
51:6N:2041:THR:HG22	51:6N:2081:GLU:HG3	1.93	0.51
13:6b:2:ARG:HH21	13:6b:243:ARG:HA	1.75	0.51
13:6d:2:ARG:HH21	13:6d:243:ARG:HA	1.75	0.51
13:6d:328:VAL:O	13:6d:332:VAL:HG12	2.10	0.51
12:6e:99:ASN:HA	12:6e:142:GLY:H	1.76	0.51
12:6g:73:MET:HE2	12:6g:90:PHE:HD2	1.75	0.51
13:6h:2:ARG:HD3	13:6h:2:ARG:H	1.76	0.51
12:7a:86:ARG:HG3	12:8a:281:TYR:HB3	1.93	0.51
12:7a:238:CYS:SG	12:7a:239:CYS:N	2.84	0.51
13:7b:151:SER:HB2	13:7b:193:SER:OG	2.11	0.51
13:7h:151:SER:HB2	13:7h:193:SER:OG	2.11	0.51
12:8c:110:ALA:HA	12:8c:113:ILE:HG22	1.92	0.51
13:8d:55:GLU:O	13:9d:285:GLN:NE2	2.42	0.51
12:9a:178:THR:N	12:9a:181:GLU:OE2	2.29	0.51
12:9a:206:ALA:HA	12:9a:209:ASP:OD1	2.11	0.51
13:9b:151:SER:HB2	13:9b:193:SER:OG	2.11	0.51
12:9e:163:MET:HA	12:9e:197:ASP:OD2	2.11	0.51
13:Ab:2:ARG:HH21	13:Ab:243:ARG:HA	1.75	0.51
13:Af:151:SER:HB2	13:Af:193:SER:OG	2.11	0.51
13:Ah:272:TYR:HB3	13:Ah:275:ILE:HD11	1.92	0.51
13:Bb:151:SER:HB2	13:Bb:193:SER:OG	2.11	0.51
12:Be:86:ARG:HG2	12:Be:88:ASP:OD1	2.11	0.51
13:Bf:251:ASP:H	13:Bf:254:GLU:HB2	1.76	0.51
12:Bg:183:TYR:OH	12:Bg:388:MET:HB3	2.11	0.51
12:Cc:207:LEU:HB3	12:Cc:225:LEU:HD22	1.93	0.51
12:Cg:174:LYS:HG2	12:Cg:175:VAL:HG23	1.93	0.51
12:Da:404:ASP:HB3	12:Da:407:GLU:OE1	2.11	0.51
13:Db:2:ARG:HD3	13:Db:2:ARG:H	1.76	0.51
13:Db:251:ASP:H	13:Db:254:GLU:HB2	1.76	0.51
1:0H:89:VAL:HG11	1:0H:125:GLY:HA3	1.92	0.51
1:0H:318:GLY:HA3	1:0H:359:THR:HG22	1.93	0.51
1:0W:154:GLY:HA2	1:0W:197:HIS:NE2	2.26	0.51
1:0K:222:ASP:HB2	1:0K:225:LEU:HD13	1.93	0.51
1:0C:142:LYS:HE3	1:0C:183:LEU:HD21	1.93	0.50
1:0E:382:THR:O	1:0E:386:LEU:HG	2.10	0.50
1:0G:154:GLY:HA2	1:0G:197:HIS:NE2	2.26	0.50
1:0G:219:ILE:HG12	1:0G:255:LYS:HG2	1.92	0.50
1:0L:262:PHE:CE2	1:0L:264:ASP:HB2	2.46	0.50
1:0P:45:LEU:C	1:0P:48:PRO:HD2	2.36	0.50
1:0Q:202:ALA:HB1	1:0Q:236:ILE:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Q:236:ILE:HG23	1:0Q:243:LEU:HD13	1.93	0.50
1:0R:95:GLN:O	4:1K:71:ASP:HB3	2.11	0.50
1:0R:147:TRP:HE1	1:0R:186:ILE:HD12	1.75	0.50
1:0S:45:LEU:C	1:0S:48:PRO:HD2	2.36	0.50
1:0T:72:SER:HB3	1:0T:75:LEU:HG	1.92	0.50
1:0T:407:VAL:O	1:0T:411:LEU:HB2	2.10	0.50
1:0X:248:VAL:HG12	1:0X:253:PHE:HE2	1.76	0.50
1:1A:247:VAL:HG13	1:1A:252:ILE:HD11	1.94	0.50
1:1B:273:THR:HG23	1:1B:276:ARG:HH21	1.76	0.50
1:1B:358:TRP:CB	1:1B:399:LYS:HD2	2.41	0.50
1:1C:327:LEU:O	1:1C:331:VAL:HG23	2.11	0.50
2:1D:62:LEU:HD12	2:1F:28:PHE:CD2	2.47	0.50
2:1F:83:SER:O	2:1F:87:LYS:HG2	2.11	0.50
2:1F:207:LYS:O	2:1F:210:VAL:HG12	2.11	0.50
2:1G:353:VAL:HG13	3:1I:915:TRP:HA	1.93	0.50
3:1H:983:ARG:HE	47:6A:392:LEU:HD11	1.76	0.50
6:1N:3:GLN:HE22	6:1N:41:ALA:HB1	1.76	0.50
6:1N:349:ARG:NH2	6:1N:381:TRP:CD2	2.80	0.50
6:1N:1154:VAL:HG22	6:1N:1180:CYS:SG	2.52	0.50
6:1N:2719:LEU:CD2	6:1N:2724:VAL:HA	2.41	0.50
7:1O:380:ALA:O	7:1O:384:VAL:HG23	2.10	0.50
7:1O:1230:ALA:HA	7:1O:1233:VAL:HG22	1.93	0.50
9:1Q:825:THR:O	9:1Q:855:ARG:HG2	2.09	0.50
10:1R:295:MET:CE	31:3H:136:LEU:HG	2.42	0.50
10:1R:368:VAL:N	12:Bc:332:ASN:ND2	2.58	0.50
12:1a:117:LEU:HA	12:1a:120:VAL:HG12	1.93	0.50
12:1a:179:VAL:HG23	13:1b:350:GLY:HA2	1.92	0.50
13:1b:151:SER:HB2	13:1b:193:SER:OG	2.11	0.50
12:1c:73:MET:HE2	12:1c:90:PHE:HD2	1.76	0.50
12:1c:284:LEU:HD23	12:1c:362:LYS:HB3	1.93	0.50
13:1d:251:ASP:H	13:1d:254:GLU:HB2	1.76	0.50
24:2T:132:ARG:HH11	24:2T:145:TRP:NE1	2.09	0.50
24:2V:201:GLN:OE1	12:Ce:195:ASN:ND2	2.40	0.50
12:2a:258:ILE:HD13	12:2a:264:HIS:HB3	1.93	0.50
13:2b:324:VAL:HB	13:2b:327:ASP:HB2	1.93	0.50
13:2d:272:TYR:HB3	13:2d:275:ILE:HD11	1.92	0.50
13:2f:324:VAL:HB	13:2f:327:ASP:HB2	1.93	0.50
12:2g:178:THR:N	12:2g:181:GLU:OE2	2.42	0.50
12:2g:272:PRO:HD3	12:2g:364:SER:HA	1.92	0.50
31:3I:105:LEU:HD23	31:3I:213:ALA:HB1	1.92	0.50
34:3M:192:TYR:CE1	34:3P:55:GLN:HG3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3O:47:ASN:ND2	34:3T:77:GLN:HG3	2.26	0.50
34:3O:356:PHE:CE1	34:3O:375:TYR:HB2	2.47	0.50
34:3P:323:ALA:HB1	34:3P:407:MET:SD	2.51	0.50
34:3R:37:ASN:O	34:3R:41:THR:HG23	2.11	0.50
34:3R:493:LYS:O	34:3R:497:MET:HG2	2.10	0.50
34:3S:192:TYR:CE1	34:3U:55:GLN:HG3	2.46	0.50
34:3V:485:TYR:HA	34:3X:248:PHE:HE1	1.76	0.50
34:3W:107:TYR:O	34:3W:111:ILE:HG13	2.11	0.50
12:3a:98:GLY:HA2	13:3b:254:GLU:HG2	1.92	0.50
12:3a:139:LEU:HD22	12:3a:188:SER:OG	2.12	0.50
12:3c:272:PRO:HD3	12:3c:364:SER:HA	1.92	0.50
13:3f:321:GLY:HA3	13:3f:372:GLN:O	2.12	0.50
12:3g:48:ASN:O	12:3g:62:ARG:NH2	2.42	0.50
12:3g:207:LEU:HB3	12:3g:225:LEU:HD22	1.93	0.50
12:3g:272:PRO:HD3	12:3g:364:SER:HA	1.93	0.50
13:3h:251:ASP:H	13:3h:254:GLU:HB2	1.76	0.50
35:4C:504:VAL:CG1	35:4C:548:THR:HG22	2.41	0.50
35:4C:918:ARG:NH2	35:4C:928:TRP:CD1	2.79	0.50
36:4D:40:LYS:HG3	36:4D:155:CYS:SG	2.51	0.50
37:4E:566:ALA:HB2	42:5H:106:VAL:HG21	1.93	0.50
37:4E:585:VAL:CA	43:5L:37:THR:HG23	2.40	0.50
37:4E:589:PRO:N	43:5L:21:PRO:HA	2.25	0.50
37:4E:856:MET:HE3	37:4E:860:LEU:CB	2.40	0.50
37:4F:586:PHE:HE1	43:5K:59:LEU:HD22	1.76	0.50
37:4F:1334:GLU:C	38:4N:28:VAL:C	2.77	0.50
37:4F:1712:LEU:CD1	37:4F:1713:PRO:HD2	2.34	0.50
37:4G:518:LEU:HD23	37:4G:535:ALA:HB2	1.93	0.50
37:4G:852:LYS:HB3	37:4G:854:TYR:CE2	2.46	0.50
37:4G:935:ARG:NH2	37:4G:960:LEU:CD2	2.73	0.50
37:4G:1076:THR:N	38:4L:38:VAL:HG21	2.26	0.50
37:4G:1316:GLN:HA	37:4G:1322:ARG:N	2.25	0.50
37:4G:1347:GLY:C	37:4G:1348:LEU:HD12	2.36	0.50
37:4H:1323:ILE:HD13	38:4M:26:GLU:CA	2.34	0.50
38:4I:68:LEU:CD1	38:4I:80:LEU:HB2	2.31	0.50
38:4N:81:ALA:C	38:4N:82:TYR:HD1	2.19	0.50
39:4Q:198:VAL:O	39:4Q:202:LEU:HG	2.12	0.50
39:4R:52:ARG:HH22	44:5T:124:GLU:HG2	1.76	0.50
40:4T:666:ALA:HA	40:4T:669:LEU:HD12	1.93	0.50
40:4T:719:ASP:O	40:4T:723:VAL:HG12	2.10	0.50
12:4a:258:ILE:HD13	12:4a:264:HIS:HB3	1.93	0.50
12:4c:183:TYR:OH	12:4c:388:MET:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:4c:272:PRO:HD3	12:4c:364:SER:HA	1.93	0.50
42:5F:89:ALA:O	42:5F:137:TYR:OH	2.26	0.50
42:5F:135:ARG:HB2	42:5F:136:HIS:CD2	2.46	0.50
42:5H:130:ALA:HB1	43:5L:53:ASP:OD1	2.11	0.50
42:5H:135:ARG:CZ	43:5L:56:VAL:N	2.73	0.50
42:5H:137:TYR:CD1	43:5L:47:LYS:HB2	2.46	0.50
43:5I:14:GLN:O	43:5I:18:ILE:CD1	2.59	0.50
43:5I:84:HIS:O	43:5I:87:ILE:HB	2.11	0.50
43:5J:84:HIS:O	43:5J:87:ILE:HB	2.11	0.50
43:5J:96:SER:OG	43:5J:136:TYR:HE1	1.94	0.50
43:5K:96:SER:OG	43:5K:136:TYR:HE1	1.94	0.50
43:5K:134:SER:O	43:5K:137:ARG:HB3	2.10	0.50
44:5U:30:THR:HB	44:5U:66:THR:OG1	2.11	0.50
13:5f:179:THR:HG22	12:5g:327:ASP:OD1	2.11	0.50
12:5g:114:ASP:OD1	12:5g:115:SER:N	2.41	0.50
47:6A:382:SER:N	47:6A:385:GLU:OE1	2.39	0.50
47:6A:469:ALA:O	47:6A:472:VAL:HG22	2.12	0.50
47:6B:196:GLN:HE22	47:6B:200:GLN:NE2	2.03	0.50
47:6B:1160:LEU:HD12	47:6B:1161:ALA:H	1.76	0.50
47:6B:1225:PHE:O	47:6B:1228:VAL:HG22	2.11	0.50
47:6B:1331:ASP:OD2	47:6B:1332:VAL:N	2.45	0.50
47:6B:1555:THR:HG21	47:6B:1746:ALA:HB3	1.92	0.50
48:6E:78:THR:OG1	48:6E:100:ASN:ND2	2.44	0.50
48:6F:78:THR:OG1	48:6F:100:ASN:ND2	2.44	0.50
48:6F:132:LEU:HD21	48:6F:139:GLY:HA3	1.92	0.50
48:6F:251:LEU:HD13	48:6F:273:VAL:HG12	1.92	0.50
49:6I:271:GLU:HA	49:6I:274:GLU:HG3	1.92	0.50
51:6M:1473:LEU:HD22	51:6M:1475:GLU:OE2	2.10	0.50
51:6M:1798:VAL:HG13	51:6M:1898:LEU:HA	1.93	0.50
51:6N:1410:SER:O	51:6N:1414:VAL:HG23	2.11	0.50
51:6N:1493:GLN:HG2	51:6N:1501:THR:HG22	1.92	0.50
12:6c:31:ASP:HB2	12:6c:32:PRO:HD2	1.94	0.50
12:6c:183:TYR:OH	12:6c:388:MET:HB3	2.11	0.50
13:6d:21:TRP:CZ2	13:6d:65:CYS:HB2	2.47	0.50
13:6d:151:SER:HB2	13:6d:193:SER:OG	2.11	0.50
13:6f:21:TRP:CZ2	13:6f:65:CYS:HB2	2.47	0.50
13:6f:151:SER:HB2	13:6f:193:SER:OG	2.11	0.50
13:6f:181:VAL:HG22	12:6g:347:ASN:O	2.11	0.50
13:6h:21:TRP:CZ2	13:6h:65:CYS:HB2	2.47	0.50
12:7a:99:ASN:HA	12:7a:142:GLY:H	1.77	0.50
12:7a:219:THR:O	12:7a:219:THR:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7d:151:SER:HB2	13:7d:193:SER:OG	2.11	0.50
12:7e:276:ARG:HA	12:7e:279:GLN:NE2	2.27	0.50
13:7h:21:TRP:CZ2	13:7h:65:CYS:HB2	2.47	0.50
12:8a:163:MET:HE3	12:8a:250:LEU:HD13	1.92	0.50
12:8g:398:TYR:HB3	12:8g:403:MET:HE3	1.93	0.50
13:9b:251:ASP:H	13:9b:254:GLU:HB2	1.76	0.50
13:9d:21:TRP:CZ2	13:9d:65:CYS:HB2	2.47	0.50
12:9e:206:ALA:O	12:9e:210:ILE:HG23	2.10	0.50
12:9g:73:MET:HE2	12:9g:90:PHE:HD2	1.76	0.50
12:Ae:101:TRP:HD1	12:Ae:145:SER:OG	1.90	0.50
13:Ah:151:SER:HB2	13:Ah:193:SER:OG	2.11	0.50
12:Ba:6:HIS:HD2	12:Ba:134:GLN:HG3	1.76	0.50
13:Bd:251:ASP:H	13:Bd:254:GLU:HB2	1.76	0.50
12:Be:179:VAL:HG23	13:Bf:352:LYS:HB2	1.93	0.50
12:Ca:211:CYS:SG	12:Ca:220:PRO:HB3	2.51	0.50
12:Cg:99:ASN:HA	12:Cg:142:GLY:H	1.75	0.50
13:Db:324:VAL:HB	13:Db:327:ASP:HB2	1.93	0.50
13:Df:2:ARG:HD3	13:Df:2:ARG:H	1.76	0.50
13:Df:324:VAL:HB	13:Df:327:ASP:HB2	1.93	0.50
1:0J:242:ASP:O	1:0J:246:VAL:HG23	2.11	0.50
1:0W:172:LEU:HA	1:0W:175:CYS:SG	2.51	0.50
1:0K:104:ALA:HB3	1:0K:144:ALA:HB1	1.92	0.50
1:0K:248:VAL:HG12	1:0K:253:PHE:HZ	1.75	0.50
1:0K:368:PRO:HA	1:0K:410:LYS:HB3	1.93	0.50
1:0D:346:GLU:HG3	1:0D:347:GLU:OE1	2.11	0.50
1:0E:76:ALA:HB1	1:0E:110:VAL:HG22	1.93	0.50
1:0G:373:ALA:HA	1:0G:376:ASP:OD2	2.12	0.50
1:0M:67:ARG:HA	1:0M:70:ASN:ND2	2.26	0.50
1:0O:248:VAL:HA	1:0O:253:PHE:HE2	1.76	0.50
1:0P:3:THR:OG1	1:0P:4:ARG:N	2.44	0.50
1:0P:93:SER:HA	1:0P:132:THR:HG21	1.92	0.50
1:0Q:138:ASP:OD1	1:0Q:139:PRO:HD2	2.11	0.50
1:0R:341:VAL:HG22	1:0R:379:CYS:SG	2.51	0.50
1:0T:371:ALA:HB1	1:0T:407:VAL:HA	1.93	0.50
1:0U:228:GLN:HA	1:0U:231:CYS:SG	2.52	0.50
1:0V:76:ALA:HB1	1:0V:110:VAL:HG22	1.94	0.50
1:0X:143:GLU:OE2	1:0X:182:SER:HB3	2.11	0.50
1:0Y:95:GLN:HG2	1:0Y:96:ASN:N	2.26	0.50
1:0Z:379:CYS:O	1:0Z:383:LEU:HG	2.11	0.50
1:1A:168:ALA:O	1:1A:172:LEU:HG	2.12	0.50
1:1A:386:LEU:HB3	1:1A:396:LEU:HD21	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:108:ARG:HG3	1:1B:148:THR:HG22	1.93	0.50
2:1D:40:ALA:HA	2:1D:43:LEU:HD23	1.94	0.50
2:1D:391:LYS:HE2	2:1D:425:ALA:HB1	1.93	0.50
2:1F:353:VAL:HG13	3:1H:915:TRP:HA	1.92	0.50
2:1F:469:ALA:HB2	3:1H:1043:GLU:OE1	2.10	0.50
3:1H:753:HIS:ND1	47:6A:370:GLN:OE1	2.44	0.50
3:1H:1005:PRO:HB3	47:6A:402:MET:O	2.10	0.50
5:1M:60:ALA:HB1	12:Dg:421:GLU:OE1	2.11	0.50
6:1N:1092:ARG:HG3	6:1N:1132:PHE:CZ	2.47	0.50
7:1O:718:VAL:HG11	7:1O:769:GLN:HB2	1.92	0.50
7:1O:2189:LEU:HD22	8:1P:813:ARG:HD3	1.92	0.50
9:1Q:706:ALA:HB3	9:1Q:755:ARG:O	2.11	0.50
10:1R:92:GLN:HB2	10:1R:94:GLU:OE1	2.11	0.50
10:1R:352:GLU:O	10:1R:356:SER:OG	2.17	0.50
10:1R:393:ALA:O	13:Ab:123:ARG:NE	2.44	0.50
12:1a:272:PRO:HD3	12:1a:364:SER:HA	1.94	0.50
12:1e:139:LEU:HD22	12:1e:188:SER:HB3	1.94	0.50
12:1g:73:MET:HE2	12:1g:90:PHE:HD2	1.75	0.50
24:2T:211:ARG:HB3	13:Cf:409:VAL:CG1	2.37	0.50
24:2V:198:PHE:O	24:2V:202:ARG:HG3	2.09	0.50
12:2a:117:LEU:HA	12:2a:120:VAL:HG12	1.92	0.50
13:2f:151:SER:HB2	13:2f:193:SER:OG	2.11	0.50
33:3L:36:GLU:OE1	33:3L:36:GLU:N	2.45	0.50
34:3M:49:PHE:CE2	34:3M:53:ILE:HD11	2.45	0.50
34:3N:489:MET:HG2	34:3U:251:LEU:HD22	1.94	0.50
34:3R:349:LEU:HD23	34:3R:382:LEU:HD23	1.94	0.50
34:3V:313:HIS:CE1	34:3V:317:ARG:HD2	2.47	0.50
34:3X:64:HIS:HE1	34:3X:427:ALA:HA	1.75	0.50
12:3a:86:ARG:NE	12:4a:281:TYR:CD1	2.79	0.50
13:3b:177:VAL:HB	12:3c:331:LEU:HD22	1.92	0.50
13:3b:321:GLY:HA3	13:3b:372:GLN:O	2.12	0.50
13:3b:403:ALA:HB2	12:3c:344:TRP:HZ3	1.77	0.50
13:3d:2:ARG:HH21	13:3d:243:ARG:HA	1.75	0.50
13:3d:251:ASP:H	13:3d:254:GLU:HB2	1.76	0.50
13:3d:321:GLY:HA3	13:3d:372:GLN:O	2.12	0.50
13:3h:321:GLY:HA3	13:3h:372:GLN:O	2.12	0.50
34:4B:107:TYR:O	34:4B:111:ILE:HG13	2.11	0.50
34:4B:270:ILE:O	34:4B:274:ILE:HG13	2.11	0.50
35:4C:867:SER:HB3	35:4C:885:ARG:NH1	2.26	0.50
36:4D:217:ASP:HB2	46:5Z:95:MET:HG3	1.93	0.50
37:4E:578:ASP:HA	43:5L:43:GLN:NE2	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:1184:TRP:HZ2	38:4O:31:ALA:HB3	1.76	0.50
37:4E:1627:ILE:HG13	37:4E:1627:ILE:O	2.11	0.50
37:4F:968:VAL:H	37:4F:1076:THR:HB	1.76	0.50
37:4F:1080:GLY:O	37:4F:1081:HIS:C	2.54	0.50
37:4F:1334:GLU:O	37:4F:1334:GLU:HG2	1.98	0.50
37:4G:1334:GLU:CG	37:4G:1340:PRO:HB3	2.41	0.50
37:4H:541:ALA:HB1	38:4J:46:ALA:HB1	1.92	0.50
37:4H:1084:ARG:CB	38:4M:41:LYS:HE3	2.41	0.50
37:4H:1093:VAL:CG1	37:4H:1094:ALA:N	2.74	0.50
37:4H:1138:VAL:C	37:4H:1143:LEU:O	2.53	0.50
37:4H:1724:ARG:HB3	37:4H:1727:LEU:HD12	1.93	0.50
38:4I:80:LEU:O	38:4I:84:LEU:HD12	2.11	0.50
38:4I:81:ALA:C	38:4I:82:TYR:HD1	2.19	0.50
38:4J:25:PRO:HA	38:4J:28:VAL:HG23	1.93	0.50
38:4M:81:ALA:C	38:4M:82:TYR:HD1	2.19	0.50
39:4Q:78:ARG:HH22	40:4T:505:ASP:C	2.19	0.50
40:4T:281:GLN:HA	40:4T:284:LEU:HD12	1.92	0.50
40:4U:69:VAL:O	40:4U:73:LEU:HG	2.11	0.50
40:4V:719:ASP:O	40:4V:723:VAL:HG12	2.10	0.50
12:4c:104:GLY:O	12:4c:147:MET:HG3	2.11	0.50
12:4c:337:ASN:HB3	12:4c:340:TYR:HD2	1.75	0.50
12:4c:391:ARG:NH2	13:4d:438:GLU:O	2.45	0.50
13:4f:251:ASP:H	13:4f:254:GLU:HB2	1.76	0.50
12:4g:337:ASN:HB3	12:4g:340:TYR:HD2	1.75	0.50
13:4h:2:ARG:HD3	13:4h:2:ARG:H	1.76	0.50
13:4h:251:ASP:H	13:4h:254:GLU:HB2	1.76	0.50
41:5A:117:ALA:H	43:5L:169:LEU:CD2	2.22	0.50
42:5E:150:HIS:CD2	43:5I:149:ARG:HE	2.29	0.50
42:5H:93:GLU:CA	43:5L:45:ASN:HD21	2.24	0.50
43:5I:91:LEU:HD22	43:5I:95:ARG:HB3	1.92	0.50
43:5L:136:TYR:HA	43:5L:139:TYR:HB2	1.93	0.50
44:5Q:103:PHE:HB3	44:5Q:139:GLN:HB3	1.94	0.50
13:5d:21:TRP:CZ2	13:5d:65:CYS:HB2	2.47	0.50
13:5f:2:ARG:HH21	13:5f:243:ARG:HA	1.75	0.50
12:5g:27:GLU:OE2	12:5g:318:ARG:NH2	2.36	0.50
13:5h:272:TYR:HB3	13:5h:275:ILE:HD11	1.92	0.50
47:6A:39:ASN:HB2	47:6A:128:SER:HA	1.92	0.50
47:6A:540:ARG:HA	47:6A:543:VAL:HG22	1.92	0.50
47:6A:968:ALA:O	47:6A:971:SER:OG	2.27	0.50
47:6A:1225:PHE:O	47:6A:1228:VAL:HG22	2.11	0.50
47:6B:469:ALA:O	47:6B:472:VAL:HG22	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:540:ARG:HA	47:6B:543:VAL:HG22	1.92	0.50
47:6B:1277:VAL:HB	47:6B:1278:PRO:HD3	1.94	0.50
48:6E:879:SER:HA	48:6E:920:GLN:HA	1.93	0.50
49:6H:71:ARG:HD2	49:6J:33:SER:OG	2.11	0.50
49:6H:192:PHE:HB2	49:6H:212:ILE:HG13	1.93	0.50
12:6a:179:VAL:HG23	13:6b:352:LYS:HB2	1.92	0.50
13:6b:151:SER:HB2	13:6b:193:SER:OG	2.11	0.50
13:6f:2:ARG:HH21	13:6f:243:ARG:HA	1.75	0.50
12:6g:183:TYR:OH	12:6g:388:MET:HB3	2.10	0.50
12:6g:397:TRP:NE1	13:6h:257:THR:HA	2.27	0.50
13:6h:2:ARG:HH21	13:6h:243:ARG:HA	1.75	0.50
13:6h:151:SER:HB2	13:6h:193:SER:OG	2.11	0.50
12:7a:6:HIS:HD2	12:7a:134:GLN:HG3	1.76	0.50
12:7a:66:MET:HE2	12:7a:147:MET:SD	2.52	0.50
12:7c:130:LEU:HB3	12:7c:162:ARG:HD3	1.92	0.50
13:7f:151:SER:HB2	13:7f:193:SER:OG	2.11	0.50
13:7f:324:VAL:HB	13:7f:327:ASP:HB2	1.92	0.50
12:8e:207:LEU:CD1	12:8e:229:ILE:HD11	2.39	0.50
13:8h:321:GLY:HA3	13:8h:372:GLN:O	2.12	0.50
12:9a:201:VAL:HG12	12:9a:266:PHE:O	2.11	0.50
13:9b:21:TRP:CZ2	13:9b:65:CYS:HB2	2.47	0.50
13:9d:2:ARG:HH21	13:9d:243:ARG:HA	1.75	0.50
13:9h:2:ARG:HH21	13:9h:243:ARG:HA	1.75	0.50
13:9h:21:TRP:CZ2	13:9h:65:CYS:HB2	2.47	0.50
12:Ac:48:ASN:O	12:Ac:62:ARG:NH2	2.42	0.50
13:Ad:151:SER:HB2	13:Ad:193:SER:OG	2.11	0.50
12:Ag:72:THR:O	12:Ag:76:VAL:HG23	2.10	0.50
13:Ah:324:VAL:HB	13:Ah:327:ASP:HB2	1.93	0.50
13:Bb:251:ASP:H	13:Bb:254:GLU:HB2	1.76	0.50
12:Be:399:THR:OG1	12:Be:405:GLU:OE2	2.28	0.50
13:Bf:2:ARG:HH21	13:Bf:243:ARG:HA	1.75	0.50
13:Cd:55:GLU:O	13:Dd:285:GLN:NE2	2.45	0.50
12:Ce:276:ARG:HA	12:Ce:279:GLN:NE2	2.26	0.50
13:Ch:21:TRP:CZ2	13:Ch:65:CYS:HB2	2.47	0.50
13:Dd:2:ARG:HD3	13:Dd:2:ARG:H	1.76	0.50
13:Dd:324:VAL:HB	13:Dd:327:ASP:HB2	1.93	0.50
12:Dg:174:LYS:HZ1	13:Dh:336:LYS:HB2	1.76	0.50
1:0J:379:CYS:O	1:0J:383:LEU:HG	2.11	0.50
1:0W:33:ASN:O	1:0W:37:LEU:HG	2.11	0.50
1:0W:205:VAL:HG13	1:0W:210:ALA:HB3	1.93	0.50
1:0I:236:ILE:HG23	1:0I:243:LEU:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0I:283:PRO:HB3	1:0I:324:SER:HB3	1.93	0.50
1:0A:32:GLN:HA	47:6A:247:VAL:CG1	2.41	0.50
1:0B:45:LEU:O	1:0B:49:LEU:HD23	2.12	0.50
1:0E:28:ALA:HB1	1:0E:67:ARG:HB2	1.94	0.50
1:0O:260:LEU:CD2	1:0O:261:LYS:HE3	2.41	0.50
1:0R:417:LEU:O	1:0R:421:VAL:HG23	2.11	0.50
1:0X:374:VAL:O	1:0X:377:THR:OG1	2.24	0.50
1:0Z:65:LEU:HD22	1:0Z:84:ILE:HG21	1.94	0.50
1:1A:45:LEU:C	1:1A:48:PRO:HD2	2.36	0.50
1:1A:86:PRO:HA	1:1A:89:VAL:HG22	1.93	0.50
2:1F:319:CYS:N	2:1F:320:PRO:HD2	2.27	0.50
3:1H:927:SER:HB2	4:1J:245:SER:OG	2.12	0.50
3:1I:508:LEU:CD1	3:1I:531:MET:HG3	2.40	0.50
4:1K:152:MET:HG3	12:Be:424:GLN:CD	2.37	0.50
4:1K:402:TYR:HA	3:6D:1053:GLN:HE21	1.75	0.50
5:1L:471:SER:O	5:1L:471:SER:OG	2.25	0.50
6:1N:319:ALA:O	6:1N:323:LEU:HG	2.11	0.50
6:1N:979:TRP:HB3	6:1N:1002:ALA:HB2	1.93	0.50
7:1O:853:PRO:HD2	7:1O:1018:LEU:CD1	2.41	0.50
7:1O:906:ARG:HG2	7:1O:932:PRO:HB2	1.93	0.50
7:1O:2502:LEU:HD23	8:1P:800:TYR:CD1	2.47	0.50
10:1S:409:TYR:HB2	13:Bf:326:LYS:HE3	1.93	0.50
12:1a:6:HIS:HD2	12:1a:134:GLN:HG3	1.76	0.50
12:1c:88:ASP:N	12:1c:88:ASP:OD2	2.44	0.50
12:1e:362:LYS:HE2	12:1e:362:LYS:CA	2.39	0.50
13:1f:251:ASP:H	13:1f:254:GLU:HB2	1.76	0.50
12:1g:207:LEU:HB3	12:1g:225:LEU:HD22	1.94	0.50
13:1h:251:ASP:H	13:1h:254:GLU:HB2	1.76	0.50
24:2U:190:TRP:HA	24:2U:193:GLN:OE1	2.11	0.50
13:2b:210:TYR:CD1	12:2c:324:LYS:HB2	2.46	0.50
13:2d:251:ASP:H	13:2d:254:GLU:HB2	1.76	0.50
13:2h:251:ASP:H	13:2h:254:GLU:HB2	1.76	0.50
30:3F:524:VAL:HG12	30:3F:525:LYS:N	2.26	0.50
31:3H:137:VAL:HG21	31:3H:186:LEU:HD22	1.93	0.50
34:3M:50:GLN:O	34:3M:54:GLU:HG2	2.11	0.50
34:3N:46:ARG:HG2	34:3N:445:TYR:HE2	1.75	0.50
34:3N:91:GLU:HG3	34:3N:95:ARG:NH2	2.27	0.50
34:3O:348:LYS:NZ	34:3O:382:LEU:HD22	2.26	0.50
34:3O:356:PHE:CZ	34:3O:375:TYR:HB2	2.46	0.50
34:3P:38:HIS:CE1	34:3P:452:HIS:HE1	2.30	0.50
34:3Q:71:LEU:HD11	34:3Q:426:LEU:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3T:254:MET:O	34:3T:257:LYS:HG2	2.11	0.50
34:3V:361:LEU:HD11	34:3V:371:ALA:HB2	1.93	0.50
34:3V:485:TYR:OH	34:3X:251:LEU:HD21	2.10	0.50
34:3W:99:ARG:O	34:3W:103:LEU:HG	2.12	0.50
12:3e:186:THR:O	12:3e:189:VAL:HG12	2.12	0.50
13:3h:262:TYR:HE1	39:4Q:169:LEU:CD2	2.24	0.50
34:4A:313:HIS:CE1	34:4A:317:ARG:HD2	2.47	0.50
34:4B:99:ARG:O	34:4B:103:LEU:HG	2.12	0.50
37:4F:967:SER:HA	37:4F:1076:THR:HB	1.94	0.50
37:4G:690:CYS:CB	38:4I:55:ALA:CA	2.88	0.50
37:4G:1323:ILE:HB	38:4L:26:GLU:OE2	2.09	0.50
37:4H:430:ASP:N	37:4H:433:LYS:HE3	2.12	0.50
37:4H:540:VAL:CG2	38:4M:69:CYS:SG	2.98	0.50
37:4H:1138:VAL:C	37:4H:1139:THR:CG2	2.81	0.50
37:4H:1162:VAL:N	37:4H:1299:ARG:HH12	2.00	0.50
37:4H:1323:ILE:HB	37:4H:1323:ILE:CG2	2.37	0.50
38:4I:58:VAL:HG23	38:4I:59:PRO:HD3	1.92	0.50
38:4J:40:LYS:NZ	38:4J:40:LYS:O	2.43	0.50
38:4J:82:TYR:N	38:4J:82:TYR:HD1	2.08	0.50
38:4O:61:LEU:HD11	38:4P:61:LEU:HD11	1.93	0.50
39:4S:65:ARG:NH2	44:5R:88:GLU:OE1	2.44	0.50
39:4S:136:LEU:HD13	1:0W:261:LYS:NZ	2.26	0.50
39:4S:198:VAL:O	39:4S:202:LEU:HG	2.12	0.50
40:4U:666:ALA:HA	40:4U:669:LEU:HD12	1.93	0.50
13:4b:251:ASP:H	13:4b:254:GLU:HB2	1.76	0.50
13:4b:321:GLY:HA3	13:4b:372:GLN:O	2.12	0.50
13:4b:324:VAL:HB	13:4b:327:ASP:HB2	1.93	0.50
13:4d:321:GLY:HA3	13:4d:372:GLN:O	2.12	0.50
13:4f:321:GLY:HA3	13:4f:372:GLN:O	2.12	0.50
13:4f:324:VAL:HB	13:4f:327:ASP:HB2	1.93	0.50
12:4g:25:SER:OG	12:4g:30:ILE:O	2.30	0.50
13:4h:321:GLY:HA3	13:4h:372:GLN:O	2.12	0.50
13:4h:324:VAL:HB	13:4h:327:ASP:HB2	1.93	0.50
42:5H:96:ALA:CA	43:5L:44:THR:HB	2.42	0.50
43:5K:84:HIS:O	43:5K:87:ILE:HB	2.11	0.50
44:5T:145:PHE:CE2	44:5T:149:MET:SD	3.04	0.50
12:5a:68:LEU:HD23	12:5a:143:THR:HG23	1.93	0.50
13:5f:321:GLY:HA3	13:5f:372:GLN:O	2.12	0.50
47:6A:773:THR:HG22	47:6A:776:GLN:HG2	1.94	0.50
47:6A:1331:ASP:OD2	47:6A:1332:VAL:N	2.45	0.50
47:6B:593:PRO:HB2	47:6B:824:VAL:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:773:THR:HG22	47:6B:776:GLN:HG2	1.94	0.50
47:6B:1088:ALA:HB3	47:6B:1089:LYS:NZ	2.26	0.50
47:6B:1544:ARG:HD3	51:6N:2264:PRO:HB3	1.94	0.50
47:6B:1633:PHE:CD2	47:6B:1747:LEU:HD22	2.46	0.50
3:6D:988:TRP:NE1	48:6E:348:ASP:HB3	2.24	0.50
48:6E:987:MET:HG2	48:6E:995:VAL:CG1	2.41	0.50
48:6F:115:THR:C	48:6F:143:LEU:HD12	2.36	0.50
48:6F:810:LEU:HD21	49:6H:3:VAL:HG11	1.92	0.50
49:6H:89:GLU:HG2	49:6H:390:GLN:HA	1.94	0.50
49:6J:271:GLU:HA	49:6J:274:GLU:HG3	1.92	0.50
12:6c:73:MET:HE2	12:6c:90:PHE:HD2	1.76	0.50
12:7a:248:ALA:HA	12:7a:252:LYS:HD2	1.93	0.50
12:7a:274:THR:HG23	12:7a:282:ARG:HD3	1.93	0.50
12:7a:284:LEU:HD11	12:7a:363:MET:HB2	1.92	0.50
12:7e:99:ASN:HA	12:7e:142:GLY:H	1.77	0.50
13:7f:2:ARG:HD3	13:7f:2:ARG:H	1.76	0.50
13:7f:272:TYR:HB3	13:7f:275:ILE:HD11	1.92	0.50
13:7h:2:ARG:HD3	13:7h:2:ARG:H	1.76	0.50
13:8b:321:GLY:HA3	13:8b:372:GLN:O	2.12	0.50
13:8f:321:GLY:HA3	13:8f:372:GLN:O	2.12	0.50
13:9b:2:ARG:HD3	13:9b:2:ARG:H	1.76	0.50
13:9b:223:THR:OG1	12:9c:245:GLN:NE2	2.44	0.50
13:9d:151:SER:HB2	13:9d:193:SER:OG	2.11	0.50
12:9e:48:ASN:O	12:9e:62:ARG:NH2	2.43	0.50
12:Aa:99:ASN:HA	12:Aa:142:GLY:H	1.76	0.50
12:Aa:222:PHE:CD2	13:Ab:247:ALA:HB1	2.46	0.50
13:Ab:324:VAL:HB	13:Ab:327:ASP:HB2	1.93	0.50
12:Ba:18:ALA:HB2	12:Ba:76:VAL:HG23	1.93	0.50
13:Bb:2:ARG:HH21	13:Bb:243:ARG:HA	1.75	0.50
13:Bb:212:ILE:O	13:Bb:216:SER:OG	2.25	0.50
12:Ca:329:GLN:O	12:Ca:333:VAL:HG13	2.10	0.50
13:Cb:403:ALA:HB2	12:Cc:344:TRP:HZ3	1.77	0.50
12:Cc:272:PRO:HD3	12:Cc:364:SER:HA	1.93	0.50
13:Cd:21:TRP:CZ2	13:Cd:65:CYS:HB2	2.46	0.50
13:Cf:21:TRP:CZ2	13:Cf:65:CYS:HB2	2.47	0.50
12:Cg:48:ASN:O	12:Cg:62:ARG:NH2	2.42	0.50
13:Dd:251:ASP:H	13:Dd:254:GLU:HB2	1.76	0.50
13:Df:251:ASP:H	13:Df:254:GLU:HB2	1.76	0.50
13:Dh:2:ARG:HD3	13:Dh:2:ARG:H	1.76	0.50
13:Dh:324:VAL:HB	13:Dh:327:ASP:HB2	1.93	0.50
1:0H:4:ARG:HG3	1:0H:8:GLN:HE21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0H:45:LEU:C	1:0H:48:PRO:HD2	2.36	0.50
1:0H:368:PRO:HA	1:0H:410:LYS:HB3	1.94	0.50
1:0W:56:SER:O	1:0W:59:GLN:HG2	2.12	0.50
1:0W:227:ARG:HG3	1:0W:267:VAL:HG22	1.92	0.50
1:0W:341:VAL:HG12	1:0W:379:CYS:SG	2.51	0.50
1:0W:348:PRO:HA	1:0W:353:LYS:HE3	1.93	0.50
1:0D:45:LEU:C	1:0D:48:PRO:HD2	2.36	0.50
1:0E:252:ILE:HA	1:0E:255:LYS:HE2	1.92	0.50
1:0F:70:ASN:HA	1:0F:113:HIS:CE1	2.47	0.50
1:0R:24:VAL:HG13	1:0R:37:LEU:HD21	1.93	0.50
1:0X:89:VAL:HG21	1:0X:125:GLY:HA2	1.94	0.50
1:0X:122:ILE:HG12	1:0X:127:LEU:HD21	1.92	0.50
1:0Y:48:PRO:HA	1:0Y:51:LEU:HG	1.92	0.50
1:0Y:118:ALA:HB1	1:0Y:152:ILE:HG12	1.94	0.50
1:0Z:225:LEU:O	1:0Z:229:VAL:HG22	2.12	0.50
1:1A:175:CYS:SG	1:1A:183:LEU:HD11	2.51	0.50
2:1D:142:LEU:HD13	2:1D:147:MET:CE	2.40	0.50
3:1H:104:ASN:OD1	3:1H:105:HIS:N	2.43	0.50
3:1H:197:SER:C	47:6A:287:GLY:C	2.80	0.50
7:1O:1362:GLU:CD	7:1O:1512:ARG:HE	2.19	0.50
7:1O:1989:PHE:HB2	7:1O:2026:PHE:CD2	2.46	0.50
7:1O:2151:VAL:HG12	7:1O:2189:LEU:HD21	1.93	0.50
7:1O:2823:ALA:O	7:1O:2829:HIS:HA	2.12	0.50
10:1R:366:LYS:HB3	12:Bc:291:GLN:HA	1.93	0.50
12:1a:145:SER:HB2	12:1a:188:SER:OG	2.11	0.50
12:1c:207:LEU:HB3	12:1c:225:LEU:HD22	1.94	0.50
12:1e:231:ALA:HB2	14:2F:12:LEU:HD11	1.92	0.50
13:1h:151:SER:HB2	13:1h:193:SER:OG	2.11	0.50
14:2F:45:ARG:HB2	13:Db:244:PHE:CE1	2.46	0.50
17:2K:77:UNK:HA	13:Af:84:ARG:NH2	2.26	0.50
22:2P:20:UNK:CB	12:5g:128:ASP:HA	2.41	0.50
24:2U:121:VAL:HG22	24:2U:158:VAL:HG23	1.93	0.50
13:2b:2:ARG:HD3	13:2b:2:ARG:H	1.76	0.50
13:2b:151:SER:HB2	13:2b:193:SER:OG	2.11	0.50
12:2c:341:PHE:HB3	12:2c:348:ASN:ND2	2.26	0.50
13:2d:151:SER:HB2	13:2d:193:SER:OG	2.11	0.50
13:2d:321:GLY:HA3	13:2d:372:GLN:O	2.12	0.50
12:2e:161:ASP:N	12:2e:161:ASP:OD1	2.45	0.50
13:2h:151:SER:HB2	13:2h:193:SER:OG	2.11	0.50
34:3M:71:LEU:HD11	34:3M:426:LEU:HD13	1.93	0.50
34:3M:81:GLU:HA	34:3M:84:GLU:CG	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3M:280:TRP:HB2	34:3M:452:HIS:NE2	2.26	0.50
34:3Q:51:GLY:O	34:3Q:55:GLN:HG2	2.11	0.50
34:3R:92:THR:HG22	34:3R:95:ARG:HH22	1.76	0.50
34:3S:203:ALA:HB1	34:3U:289:ALA:HB2	1.93	0.50
34:3T:64:HIS:O	34:3T:68:LEU:HD23	2.11	0.50
34:3Z:258:TYR:CE1	34:3Z:474:TRP:HA	2.47	0.50
13:3b:251:ASP:H	13:3b:254:GLU:HB2	1.76	0.50
13:3f:251:ASP:H	13:3f:254:GLU:HB2	1.76	0.50
35:4C:517:MET:HG3	36:4D:129:ARG:NH2	2.27	0.50
35:4C:794:PRO:HD2	35:4C:813:VAL:HG13	1.93	0.50
37:4E:542:ARG:HD2	42:5H:111:GLY:H	1.76	0.50
37:4E:582:GLN:HG3	43:5L:39:LEU:O	2.10	0.50
37:4E:585:VAL:CA	43:5L:37:THR:CG2	2.88	0.50
37:4E:671:LEU:HB3	37:4E:683:VAL:HG22	1.93	0.50
37:4E:954:SER:OG	37:4E:955:GLY:N	2.45	0.50
37:4E:1180:ALA:HA	37:4E:1201:SER:HB3	1.94	0.50
37:4E:1621:LYS:HE2	37:4E:1638:ASP:OD2	2.11	0.50
37:4F:663:SER:OG	37:4F:664:TYR:N	2.45	0.50
37:4F:970:SER:OG	38:4N:42:ILE:HA	2.12	0.50
37:4F:970:SER:C	37:4F:1074:GLN:HB2	2.35	0.50
37:4F:1077:THR:HG22	37:4F:1353:CYS:SG	2.52	0.50
37:4F:1084:ARG:HH21	37:4F:1086:THR:HG22	1.75	0.50
37:4F:1665:LYS:HG2	37:4F:1673:ALA:O	2.11	0.50
37:4G:533:MET:HB2	38:4I:62:MET:HE2	1.92	0.50
37:4G:671:LEU:HD13	38:4I:40:LYS:H	1.74	0.50
37:4G:1162:VAL:HB	37:4G:1299:ARG:HH12	1.76	0.50
37:4H:541:ALA:HB1	38:4J:46:ALA:O	2.11	0.50
37:4H:1093:VAL:HB	38:4M:32:GLU:OE1	2.12	0.50
37:4H:1324:THR:O	38:4M:24:THR:N	2.45	0.50
37:4H:1341:ILE:HG23	37:4H:1350:ILE:HD11	1.92	0.50
38:4I:72:ARG:CG	38:4L:49:ILE:HG21	2.28	0.50
38:4J:24:THR:HG21	42:5F:97:HIS:CB	2.38	0.50
39:4Q:193:ILE:HG22	39:4Q:194:MET:HG3	1.92	0.50
39:4R:142:ARG:O	39:4R:146:VAL:HG13	2.11	0.50
39:4S:193:ILE:HG22	39:4S:194:MET:HG3	1.92	0.50
40:4V:541:ARG:HG2	40:4V:646:LEU:HB3	1.93	0.50
12:4c:66:MET:SD	12:4c:147:MET:HB3	2.51	0.50
13:4d:251:ASP:H	13:4d:254:GLU:HB2	1.76	0.50
41:5A:139:GLU:O	41:5A:140:GLU:C	2.47	0.50
42:5F:62:HIS:O	42:5F:63:LYS:HG2	2.10	0.50
42:5H:96:ALA:HB3	43:5L:44:THR:HG22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5I:14:GLN:O	43:5I:18:ILE:HD12	2.12	0.50
43:5J:158:HIS:C	43:5J:160:SER:H	2.20	0.50
44:5R:93:PHE:CZ	44:5R:145:PHE:HD2	2.30	0.50
44:5U:93:PHE:HZ	44:5U:145:PHE:HE2	1.59	0.50
13:5b:2:ARG:H	13:5b:2:ARG:HD3	1.76	0.50
13:5b:21:TRP:CZ2	13:5b:65:CYS:HB2	2.47	0.50
12:5c:207:LEU:HB3	12:5c:225:LEU:HD22	1.94	0.50
13:5d:2:ARG:HD3	13:5d:2:ARG:H	1.76	0.50
13:5d:212:ILE:O	13:5d:216:SER:OG	2.25	0.50
13:5h:21:TRP:CZ2	13:5h:65:CYS:HB2	2.47	0.50
47:6A:593:PRO:HB2	47:6A:824:VAL:HG22	1.94	0.50
47:6A:813:VAL:C	47:6A:815:ARG:H	2.19	0.50
47:6A:1277:VAL:HB	47:6A:1278:PRO:HD3	1.94	0.50
47:6A:1544:ARG:HD3	51:6M:2264:PRO:HB3	1.94	0.50
47:6B:39:ASN:HB2	47:6B:128:SER:HA	1.92	0.50
47:6B:1032:ARG:O	47:6B:1035:ASN:HB2	2.12	0.50
47:6B:1898:ALA:HB3	47:6B:1900:GLN:HG2	1.93	0.50
3:6D:828:MET:O	3:6D:832:LEU:HD23	2.12	0.50
48:6F:987:MET:HG2	48:6F:995:VAL:CG1	2.41	0.50
49:6G:437:ILE:HD13	49:6G:454:LEU:HD11	1.93	0.50
50:6K:31:ALA:HA	50:6K:37:ARG:HA	1.93	0.50
50:6K:168:ILE:HA	50:6K:525:VAL:HG22	1.93	0.50
12:6a:86:ARG:CD	12:7a:281:TYR:CD1	2.86	0.50
12:6a:117:LEU:HA	12:6a:120:VAL:HG12	1.92	0.50
12:6a:172:SER:HB2	12:6a:205:GLU:CG	2.42	0.50
12:6a:309:ARG:NH2	12:6a:343:GLU:OE1	2.45	0.50
12:7a:103:LYS:HG3	12:7a:401:GLU:HG2	1.94	0.50
13:7b:2:ARG:HH21	13:7b:243:ARG:HA	1.75	0.50
12:7c:210:ILE:O	12:7c:214:THR:OG1	2.29	0.50
13:7f:21:TRP:CZ2	13:7f:65:CYS:HB2	2.47	0.50
13:7h:272:TYR:HB3	13:7h:275:ILE:HD11	1.92	0.50
13:8b:56:THR:HA	13:9b:285:GLN:HG2	1.94	0.50
12:8c:183:TYR:OH	12:8c:388:MET:HB3	2.12	0.50
13:8d:151:SER:HB2	13:8d:193:SER:OG	2.11	0.50
13:8d:321:GLY:HA3	13:8d:372:GLN:O	2.12	0.50
13:8d:324:VAL:HB	13:8d:327:ASP:HB2	1.93	0.50
12:8e:216:LYS:HB2	12:8e:275:SER:OG	2.11	0.50
13:8f:324:VAL:HB	13:8f:327:ASP:HB2	1.93	0.50
12:8g:27:GLU:OE2	12:8g:318:ARG:NH2	2.36	0.50
12:8g:55:THR:HG23	12:9g:282:ARG:O	2.12	0.50
12:9a:101:TRP:HD1	12:9a:145:SER:OG	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:9a:272:PRO:HD3	12:9a:364:SER:HA	1.94	0.50
13:9d:321:GLY:HA3	13:9d:372:GLN:O	2.12	0.50
12:9e:64:ILE:HD13	12:9e:120:VAL:HG12	1.93	0.50
12:9e:115:SER:HA	12:9e:118:ASP:OD1	2.11	0.50
12:9e:396:HIS:CD2	13:9f:263:PRO:HD3	2.47	0.50
13:9f:2:ARG:HD3	13:9f:2:ARG:H	1.76	0.50
13:9f:21:TRP:CZ2	13:9f:65:CYS:HB2	2.47	0.50
12:9g:48:ASN:O	12:9g:62:ARG:NH2	2.42	0.50
12:9g:101:TRP:HD1	12:9g:145:SER:OG	1.93	0.50
13:9h:151:SER:HB2	13:9h:193:SER:OG	2.11	0.50
13:9h:251:ASP:H	13:9h:254:GLU:HB2	1.76	0.50
13:9h:321:GLY:HA3	13:9h:372:GLN:O	2.12	0.50
12:Aa:64:ILE:HD13	12:Aa:120:VAL:HG22	1.92	0.50
12:Aa:161:ASP:OD1	12:Aa:161:ASP:N	2.45	0.50
12:Aa:256:ASN:ND2	12:Aa:350:LYS:HE3	2.27	0.50
12:Ae:161:ASP:OD1	12:Ae:161:ASP:N	2.45	0.50
12:Ag:3:GLU:N	12:Ag:3:GLU:OE1	2.45	0.50
12:Ag:139:LEU:HD22	12:Ag:188:SER:OG	2.11	0.50
12:Ca:311:LEU:HD23	12:Ca:342:VAL:HG11	1.92	0.50
13:Cb:251:ASP:H	13:Cb:254:GLU:HB2	1.76	0.50
12:Cc:267:MET:HG2	12:Cc:301:CYS:HB3	1.93	0.50
13:Cf:72:PRO:HG3	12:Cg:1:MET:HG2	1.93	0.50
13:Dd:407:TRP:CD2	12:De:255:VAL:HG22	2.47	0.50
12:De:393:ALA:O	13:Df:261:PRO:O	2.29	0.50
12:Dg:183:TYR:OH	12:Dg:388:MET:HB3	2.11	0.50
12:Dg:207:LEU:HB3	12:Dg:225:LEU:HD22	1.92	0.50
12:Dg:391:ARG:NH2	13:Dh:438:GLU:O	2.44	0.50
1:0I:202:ALA:HB1	1:0I:236:ILE:HG12	1.94	0.50
1:0C:257:LEU:HD21	1:0C:294:GLY:HA2	1.93	0.50
1:0G:205:VAL:HG13	1:0G:210:ALA:HB3	1.94	0.50
1:0G:227:ARG:HG3	1:0G:267:VAL:HG22	1.92	0.50
1:0N:105:PHE:HA	1:0N:108:ARG:HE	1.76	0.50
1:0P:4:ARG:HG3	1:0P:8:GLN:HE21	1.76	0.50
1:0P:101:GLN:HE21	1:0P:141:VAL:HG12	1.75	0.50
1:0P:200:GLU:HA	1:0P:203:GLN:OE1	2.10	0.50
1:0P:386:LEU:HA	1:0P:389:ASP:OD2	2.11	0.50
1:0S:87:GLN:HA	1:0S:90:TYR:HD2	1.74	0.50
1:0U:367:THR:HB	1:0U:370:HIS:HD1	1.74	0.50
1:0X:12:ARG:O	1:0X:16:GLU:HG2	2.12	0.50
1:1C:243:LEU:O	1:1C:247:VAL:HG23	2.11	0.50
3:1H:621:GLU:N	3:1H:622:PRO:HD2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1H:1009:ARG:HD3	48:6F:353:ILE:CG2	2.37	0.50
4:1J:102:PHE:CZ	47:6A:353:LYS:HA	2.46	0.50
4:1K:402:TYR:HA	3:6D:1053:GLN:NE2	2.26	0.50
6:1N:111:LYS:HA	6:1N:509:ASP:HB3	1.92	0.50
7:1O:365:LEU:HD23	7:1O:434:ALA:HB1	1.94	0.50
10:1S:432:THR:HB	12:Ae:83:GLN:NE2	2.26	0.50
13:1b:407:TRP:HE1	12:1c:258:ILE:HB	1.76	0.50
12:1c:398:TYR:HB3	12:1c:403:MET:HE3	1.92	0.50
13:1d:151:SER:HB2	13:1d:193:SER:OG	2.11	0.50
12:1e:116:VAL:O	12:1e:120:VAL:HG12	2.11	0.50
12:1e:379:LYS:O	12:1e:383:GLU:HG2	2.11	0.50
13:1f:2:ARG:HD3	13:1f:2:ARG:H	1.76	0.50
23:2Q:21:UNK:O	13:2h:123:ARG:NH2	2.45	0.50
13:2b:321:GLY:HA3	13:2b:372:GLN:O	2.12	0.50
13:2d:2:ARG:HD3	13:2d:2:ARG:H	1.76	0.50
13:2f:2:ARG:HD3	13:2f:2:ARG:H	1.76	0.50
13:2h:321:GLY:HA3	13:2h:372:GLN:O	2.12	0.50
28:3C:531:MET:HE2	13:4h:311:LYS:HE3	1.93	0.50
30:3F:635:ARG:HA	30:3F:638:LEU:HG	1.93	0.50
34:3M:93:VAL:O	34:3M:97:LEU:HG	2.12	0.50
34:3O:367:GLY:O	34:3O:370:GLU:N	2.44	0.50
34:3P:83:GLU:CD	34:3P:86:GLN:HE21	2.20	0.50
34:3Q:63:SER:HA	34:3Q:66:LYS:HE2	1.93	0.50
34:3Q:356:PHE:CZ	34:3Q:375:TYR:HB2	2.46	0.50
34:3R:64:HIS:HE1	34:3R:427:ALA:HA	1.76	0.50
34:3T:46:ARG:HG2	34:3T:445:TYR:HE2	1.76	0.50
34:3V:125:ARG:HD3	34:3V:357:LEU:HD12	1.92	0.50
34:3W:246:SER:HB2	34:3W:252:GLU:HG2	1.92	0.50
34:3X:352:LEU:O	34:3X:356:PHE:CD2	2.65	0.50
34:3Y:71:LEU:HB3	34:3Y:419:LEU:HD11	1.93	0.50
12:3a:138:SER:OG	53:3a:501:GDP:H5'	2.11	0.50
34:4A:106:ASP:O	34:4A:110:LEU:HG	2.12	0.50
35:4C:704:PRO:HG2	35:4C:717:PHE:HD2	1.71	0.50
36:4D:103:LEU:HG	36:4D:107:PHE:CE2	2.39	0.50
37:4E:512:LEU:HD12	37:4E:539:GLN:HG2	1.93	0.50
37:4E:540:VAL:HG22	38:4O:62:MET:SD	2.52	0.50
37:4E:577:LEU:CB	43:5L:30:ARG:CZ	2.87	0.50
37:4F:1075:VAL:C	38:4N:42:ILE:HD11	2.36	0.50
37:4F:1093:VAL:HG12	37:4F:1137:ALA:N	2.25	0.50
37:4G:429:TYR:CD2	37:4G:854:TYR:HE1	2.28	0.50
37:4G:680:VAL:O	37:4G:684:GLU:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:826:LEU:HD12	38:4L:85:LEU:HD21	1.92	0.50
37:4G:1338:PHE:CE2	38:4L:32:GLU:OE1	2.64	0.50
37:4H:1163:SER:OG	37:4H:1184:TRP:HB3	2.12	0.50
38:4I:47:ALA:N	38:4I:48:PRO:CD	2.74	0.50
38:4L:30:ALA:O	38:4L:33:LYS:CA	2.60	0.50
38:4M:30:ALA:O	38:4M:33:LYS:CA	2.60	0.50
38:4N:30:ALA:O	38:4N:33:LYS:CA	2.60	0.50
39:4Q:51:ARG:HH21	39:4Q:54:GLN:CD	2.18	0.50
39:4R:51:ARG:HH21	39:4R:54:GLN:CD	2.18	0.50
39:4S:51:ARG:HH21	39:4S:54:GLN:CD	2.18	0.50
40:4T:341:LEU:HD13	40:4T:348:GLY:HA3	1.94	0.50
40:4U:281:GLN:HA	40:4U:284:LEU:HD12	1.92	0.50
40:4V:341:LEU:HD13	40:4V:348:GLY:HA3	1.94	0.50
40:4V:666:ALA:HA	40:4V:669:LEU:HD12	1.93	0.50
12:4a:101:TRP:HD1	12:4a:145:SER:OG	1.93	0.50
12:4a:404:ASP:HB3	12:4a:407:GLU:OE1	2.12	0.50
13:4d:324:VAL:HB	13:4d:327:ASP:HB2	1.93	0.50
42:5H:91:TYR:CA	43:5L:41:ASP:O	2.56	0.50
42:5H:96:ALA:CB	43:5L:44:THR:HB	2.41	0.50
42:5H:139:LEU:CB	43:5L:146:TYR:N	2.73	0.50
42:5H:139:LEU:CG	43:5L:146:TYR:CB	2.90	0.50
43:5J:14:GLN:O	43:5J:18:ILE:HD12	2.12	0.50
43:5J:35:LYS:NZ	43:5J:42:TYR:OH	2.29	0.50
43:5J:136:TYR:HA	43:5J:139:TYR:HB2	1.93	0.50
43:5K:14:GLN:O	43:5K:18:ILE:CD1	2.59	0.50
43:5K:32:LEU:HG	43:5K:36:TYR:CE2	2.47	0.50
12:5a:170:VAL:HG21	12:5a:201:VAL:HG23	1.92	0.50
12:5a:313:ALA:O	12:5a:349:VAL:HA	2.12	0.50
13:5b:272:TYR:HB3	13:5b:275:ILE:HD11	1.91	0.50
13:5d:100:ALA:HA	12:5e:252:LYS:HG2	1.92	0.50
13:5f:21:TRP:CZ2	13:5f:65:CYS:HB2	2.47	0.50
12:5g:83:GLN:O	12:6g:281:TYR:OH	2.15	0.50
12:5g:219:THR:HG23	12:5g:219:THR:O	2.11	0.50
13:5h:324:VAL:HB	13:5h:327:ASP:HB2	1.93	0.50
47:6A:838:ARG:HA	47:6A:853:HIS:HE1	1.75	0.50
47:6A:1032:ARG:O	47:6A:1035:ASN:HB2	2.12	0.50
47:6A:1088:ALA:HB3	47:6A:1089:LYS:NZ	2.26	0.50
47:6A:1839:VAL:HG21	47:6A:1901:LEU:HD13	1.92	0.50
47:6B:380:ARG:HD3	3:6D:809:TRP:CZ3	2.47	0.50
47:6B:381:GLN:HB2	47:6B:386:GLN:HE21	1.75	0.50
47:6B:382:SER:N	47:6B:385:GLU:OE1	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:1839:VAL:HG21	47:6B:1901:LEU:HD13	1.92	0.50
3:6D:265:TRP:HB2	3:6D:530:VAL:HG22	1.94	0.50
3:6D:854:LEU:HD23	3:6D:859:SER:HB2	1.94	0.50
3:6D:873:GLN:O	3:6D:877:HIS:HB3	2.12	0.50
48:6E:1027:PHE:HE2	50:6K:398:LEU:HD13	1.75	0.50
50:6K:150:VAL:O	50:6K:179:GLU:N	2.43	0.50
50:6K:158:GLN:O	50:6K:162:THR:HG23	2.12	0.50
51:6M:1822:ALA:O	51:6M:1825:VAL:HG22	2.11	0.50
12:6a:99:ASN:HA	12:6a:142:GLY:H	1.76	0.50
13:6b:21:TRP:CZ2	13:6b:65:CYS:HB2	2.47	0.50
13:6b:321:GLY:HA3	13:6b:372:GLN:O	2.12	0.50
13:7b:21:TRP:CZ2	13:7b:65:CYS:HB2	2.46	0.50
13:7d:272:TYR:HB3	13:7d:275:ILE:HD11	1.92	0.50
12:7g:267:MET:HE1	12:7g:305:PRO:HG3	1.93	0.50
12:8a:263:LEU:HD22	12:8a:422:TYR:CZ	2.46	0.50
13:8b:151:SER:HB2	13:8b:193:SER:OG	2.11	0.50
12:8c:219:THR:O	12:8c:219:THR:HG23	2.11	0.50
12:9a:6:HIS:HD2	12:9a:134:GLN:HG3	1.76	0.50
12:9c:267:MET:HG2	12:9c:301:CYS:HB3	1.94	0.50
13:9d:251:ASP:H	13:9d:254:GLU:HB2	1.76	0.50
12:Ac:267:MET:HG2	12:Ac:301:CYS:HB3	1.93	0.50
13:Ad:21:TRP:CZ2	13:Ad:65:CYS:HB2	2.47	0.50
13:Af:212:ILE:O	13:Af:216:SER:OG	2.25	0.50
13:Bd:2:ARG:HH21	13:Bd:243:ARG:HA	1.75	0.50
12:Be:31:ASP:HB2	12:Be:32:PRO:HD2	1.94	0.50
12:Ca:161:ASP:O	12:Ca:251:ARG:NH2	2.45	0.50
13:Cb:21:TRP:CZ2	13:Cb:65:CYS:HB2	2.47	0.50
13:Db:151:SER:HB2	13:Db:193:SER:OG	2.11	0.50
13:Dd:21:TRP:CZ2	13:Dd:65:CYS:HB2	2.47	0.50
12:De:178:THR:HG22	13:Df:352:LYS:NZ	2.26	0.50
13:Df:21:TRP:CZ2	13:Df:65:CYS:HB2	2.47	0.50
13:Dh:21:TRP:CZ2	13:Dh:65:CYS:HB2	2.47	0.50
13:Dh:151:SER:HB2	13:Dh:193:SER:OG	2.11	0.50
1:0K:316:ALA:O	1:0K:320:ILE:HG23	2.11	0.50
1:0C:354:SER:OG	1:0C:399:LYS:HG3	2.11	0.50
1:0G:56:SER:O	1:0G:59:GLN:HG2	2.12	0.50
1:0G:70:ASN:HA	1:0G:113:HIS:NE2	2.24	0.50
1:0L:83:GLU:C	1:0L:86:PRO:HD2	2.37	0.50
1:0Q:70:ASN:HA	1:0Q:113:HIS:CE1	2.47	0.50
1:0Q:282:THR:OG1	1:0Q:285:LEU:HG	2.12	0.50
1:0Q:404:LEU:O	1:0Q:408:ILE:HG13	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0T:240:SER:HB3	1:0T:243:LEU:HG	1.92	0.50
1:1B:108:ARG:CG	1:1B:148:THR:HG22	2.42	0.50
2:1D:310:LEU:O	2:1D:314:VAL:HG13	2.11	0.50
3:1H:949:LYS:CA	47:6A:385:GLU:HG3	2.39	0.50
4:1J:218:ARG:HA	4:1J:248:GLU:O	2.12	0.50
6:1N:2024:LEU:HD13	6:1N:2055:LYS:NZ	2.27	0.50
7:1O:32:ASP:HA	7:1O:921:THR:HG21	1.93	0.50
10:1R:384:GLU:HG3	13:Bb:176:GLN:OE1	2.12	0.50
12:1e:50:TYR:CE2	12:1e:241:ARG:HD3	2.47	0.50
18:2L:8:UNK:C	18:2L:10:UNK:N	2.73	0.50
22:2P:47:UNK:CB	13:5f:120:ASP:OD2	2.60	0.50
24:2T:145:TRP:CH2	24:2T:158:VAL:HA	2.42	0.50
24:2T:175:ALA:CB	13:Dh:339:ARG:HE	2.24	0.50
13:2b:251:ASP:H	13:2b:254:GLU:HB2	1.76	0.50
13:2f:321:GLY:HA3	13:2f:372:GLN:O	2.12	0.50
12:2g:73:MET:HE2	12:2g:90:PHE:HD2	1.76	0.50
32:3J:118:TYR:OH	32:3J:137:HIS:HB3	2.11	0.50
32:3K:56:TYR:OH	32:3K:138:ALA:C	2.55	0.50
34:3P:109:LEU:HA	34:3P:112:LYS:NZ	2.27	0.50
34:3Q:356:PHE:CE1	34:3Q:375:TYR:HB2	2.47	0.50
34:3Q:396:ALA:O	34:3Q:400:LEU:HG	2.12	0.50
34:3R:251:LEU:HB3	34:3W:488:ARG:HH22	1.76	0.50
34:3V:352:LEU:HD13	34:3V:382:LEU:HD11	1.93	0.50
34:3W:280:TRP:HB2	34:3W:452:HIS:CD2	2.47	0.50
34:3X:258:TYR:CE1	34:3X:474:TRP:HA	2.47	0.50
34:3Z:270:ILE:HG22	34:3Z:273:ARG:HH21	1.76	0.50
12:3c:207:LEU:HB3	12:3c:225:LEU:HD22	1.94	0.50
12:3e:404:ASP:HB3	12:3e:407:GLU:OE1	2.10	0.50
35:4C:788:VAL:O	35:4C:878:PRO:HD2	2.12	0.50
35:4C:858:PRO:HG2	35:4C:861:ALA:HB2	1.94	0.50
37:4E:419:TYR:CE2	37:4E:423:ARG:HD2	2.46	0.50
37:4E:589:PRO:CA	43:5L:20:HIS:CA	2.90	0.50
37:4E:1130:ALA:HB2	43:5L:129:ASP:OD2	2.12	0.50
37:4E:1402:GLU:O	37:4E:1440:LEU:HD21	2.11	0.50
37:4F:582:GLN:O	43:5K:30:ARG:CB	2.55	0.50
37:4F:1316:GLN:CA	37:4F:1321:THR:HG21	2.42	0.50
37:4G:856:MET:HE1	37:4G:860:LEU:HB3	1.93	0.50
37:4G:1093:VAL:HG11	38:4L:32:GLU:HG3	1.93	0.50
37:4H:1441:LEU:HD12	37:4H:1462:SER:HB2	1.94	0.50
38:4J:30:ALA:O	38:4J:33:LYS:CA	2.60	0.50
38:4K:81:ALA:C	38:4K:82:TYR:HD1	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4O:25:PRO:HA	38:4O:28:VAL:CG2	2.42	0.50
39:4R:193:ILE:HG22	39:4R:194:MET:HG3	1.92	0.50
40:4U:341:LEU:HD13	40:4U:348:GLY:HA3	1.94	0.50
12:4a:99:ASN:HA	12:4a:142:GLY:H	1.76	0.50
13:4d:2:ARG:HD3	13:4d:2:ARG:H	1.76	0.50
42:5H:46:ARG:HD2	42:5H:144:PHE:CD1	2.46	0.50
42:5H:91:TYR:CD1	43:5L:48:THR:CB	2.95	0.50
43:5J:112:PRO:CB	44:5T:116:LEU:HG	2.41	0.50
13:5b:324:VAL:HB	13:5b:327:ASP:HB2	1.93	0.50
13:5d:272:TYR:HB3	13:5d:275:ILE:HD11	1.92	0.50
13:5d:321:GLY:HA3	13:5d:372:GLN:O	2.12	0.50
13:5f:272:TYR:HB3	13:5f:275:ILE:HD11	1.92	0.50
13:5h:321:GLY:HA3	13:5h:372:GLN:O	2.12	0.50
47:6A:1898:ALA:HB3	47:6A:1900:GLN:HG2	1.93	0.50
47:6B:107:THR:HG22	47:6B:110:LYS:HZ2	1.76	0.50
47:6B:330:MET:HE3	47:6B:334:LYS:HE3	1.94	0.50
47:6B:813:VAL:C	47:6B:815:ARG:H	2.20	0.50
47:6B:1904:SER:HA	50:6K:573:LYS:NZ	2.26	0.50
3:6D:114:GLY:HA2	3:6D:117:PHE:HD2	1.77	0.50
3:6D:683:ARG:HG2	3:6D:754:PHE:CE1	2.47	0.50
48:6E:47:PHE:CZ	48:6E:52:LEU:HD11	2.46	0.50
48:6E:1022:GLN:HE22	50:6K:399:LEU:HD23	1.77	0.50
49:6G:89:GLU:HG2	49:6G:390:GLN:HA	1.94	0.50
49:6G:252:GLU:HG3	49:6G:415:HIS:CE1	2.45	0.50
49:6I:299:MET:HE3	49:6I:314:LYS:HB3	1.93	0.50
50:6L:158:GLN:O	50:6L:162:THR:HG23	2.12	0.50
50:6L:168:ILE:HA	50:6L:525:VAL:HG22	1.93	0.50
51:6M:2321:PRO:HB3	51:6M:2357:ARG:HB2	1.93	0.50
13:6d:321:GLY:HA3	13:6d:372:GLN:O	2.12	0.50
12:6g:207:LEU:O	12:6g:210:ILE:HG22	2.10	0.50
13:7b:272:TYR:HB3	13:7b:275:ILE:HD11	1.92	0.50
12:7c:274:THR:HG21	12:7c:279:GLN:HA	1.92	0.50
13:8b:251:ASP:H	13:8b:254:GLU:HB2	1.76	0.50
12:8c:55:THR:HG23	12:9c:282:ARG:O	2.12	0.50
12:8c:207:LEU:O	12:8c:210:ILE:HG22	2.12	0.50
12:8e:257:LEU:HD21	12:8e:314:SER:HB3	1.93	0.50
12:9a:206:ALA:O	12:9a:210:ILE:HG23	2.11	0.50
13:9f:324:VAL:HB	13:9f:327:ASP:HB2	1.93	0.50
12:Ac:130:LEU:HB3	12:Ac:162:ARG:HD3	1.93	0.50
13:Ad:324:VAL:HB	13:Ad:327:ASP:HB2	1.93	0.50
13:Af:324:VAL:HB	13:Af:327:ASP:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Be:139:LEU:HD12	12:Be:170:VAL:HG22	1.93	0.50
13:Bh:321:GLY:HA3	13:Bh:372:GLN:O	2.12	0.50
13:Cb:210:TYR:CD1	12:Cc:324:LYS:HB2	2.45	0.50
13:Cb:403:ALA:HB2	12:Cc:344:TRP:CZ3	2.47	0.50
13:Cd:251:ASP:H	13:Cd:254:GLU:HB2	1.76	0.50
13:Cf:251:ASP:H	13:Cf:254:GLU:HB2	1.76	0.50
13:Ch:321:GLY:HA3	13:Ch:372:GLN:O	2.12	0.50
13:Db:21:TRP:CZ2	13:Db:65:CYS:HB2	2.47	0.50
13:Dh:251:ASP:H	13:Dh:254:GLU:HB2	1.76	0.50
1:0H:257:LEU:HD23	1:0H:260:LEU:HD21	1.93	0.50
1:0H:341:VAL:HG22	1:0H:379:CYS:SG	2.52	0.50
1:0I:70:ASN:HA	1:0I:113:HIS:CE1	2.47	0.50
1:0K:185:ARG:HD3	1:0K:224:LYS:HD3	1.94	0.50
1:0A:47:ARG:HH22	47:6B:117:LEU:CB	2.25	0.50
1:0A:137:PHE:CD1	4:1J:120:ARG:HD2	2.46	0.50
1:0B:242:ASP:O	1:0B:246:VAL:HG23	2.11	0.50
1:0G:108:ARG:NH2	1:0G:144:ALA:HB1	2.27	0.50
1:0L:92:LEU:HB3	1:0L:133:CYS:SG	2.52	0.50
1:0P:89:VAL:HG21	1:0P:125:GLY:CA	2.41	0.50
1:0V:45:LEU:HD12	1:0W:10:PHE:HE1	1.75	0.50
1:0V:382:THR:O	1:0V:386:LEU:HG	2.11	0.50
1:1A:53:ASN:ND2	5:1L:606:TRP:CE3	2.80	0.50
2:1D:25:PHE:HE1	2:1F:56:LEU:HA	1.75	0.50
2:1E:233:LEU:HB3	2:1E:234:PRO:HD3	1.93	0.50
2:1F:139:ARG:HD3	10:1S:324:PRO:HA	1.93	0.50
3:1H:683:ARG:HG2	3:1H:754:PHE:CE1	2.47	0.50
3:1I:280:SER:OG	3:1I:497:VAL:HG21	2.12	0.50
4:1K:97:HIS:ND1	4:1K:188:VAL:HG12	2.27	0.50
4:1K:218:ARG:HA	4:1K:248:GLU:O	2.12	0.50
5:1M:471:SER:O	5:1M:471:SER:OG	2.25	0.50
6:1N:175:VAL:HG21	6:1N:195:LEU:HD22	1.92	0.50
6:1N:1243:ALA:HB2	6:1N:1364:LEU:HD21	1.93	0.50
7:1O:1761:VAL:HG23	7:1O:1763:THR:HG23	1.94	0.50
10:1S:39:MET:HG3	10:1S:40:HIS:H	1.76	0.50
12:1c:116:VAL:O	12:1c:120:VAL:HG23	2.11	0.50
14:2F:115:GLN:HB2	12:Ba:75:SER:HA	1.91	0.50
14:2F:162:LYS:HD3	12:Aa:227:HIS:CE1	2.47	0.50
24:2T:152:GLU:HA	13:Dh:176:GLN:HE21	1.75	0.50
24:2T:152:GLU:HG3	24:2T:153:ASN:H	1.76	0.50
12:2a:161:ASP:N	12:2a:161:ASP:OD1	2.45	0.50
12:2a:179:VAL:HG22	13:2b:351:PHE:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2h:2:ARG:HD3	13:2h:2:ARG:H	1.76	0.50
28:3C:520:VAL:HG12	28:3C:521:ASP:H	1.75	0.50
28:3C:554:ARG:CZ	12:3g:404:ASP:H	2.24	0.50
28:3C:554:ARG:HH22	12:3g:404:ASP:CG	2.20	0.50
30:3G:751:ALA:HA	12:6a:106:TYR:HE2	1.77	0.50
31:3H:246:TYR:OH	12:Aa:427:ASP:HA	2.12	0.50
31:3I:123:TYR:HE1	31:3I:197:GLU:HG2	1.76	0.50
32:3J:263:ALA:HA	32:3J:266:VAL:HG12	1.92	0.50
32:3K:180:ILE:HG23	32:3K:222:ILE:CG2	2.42	0.50
33:3L:44:PHE:HE2	33:3L:66:GLN:HE21	1.57	0.50
33:3L:104:ASP:HA	33:3L:131:GLU:CD	2.36	0.50
34:3M:452:HIS:CE1	34:3M:456:LEU:HD11	2.46	0.50
34:3O:367:GLY:HA2	34:3Y:359:ARG:HH11	1.77	0.50
34:3Q:415:TYR:CE1	34:3Q:419:LEU:HD11	2.46	0.50
34:3T:75:GLN:HG3	34:3T:419:LEU:CD2	2.42	0.50
34:3X:386:HIS:CE1	34:3X:390:LEU:HD11	2.47	0.50
13:3b:224:TYR:CD2	12:3c:245:GLN:HG2	2.47	0.50
34:4B:106:ASP:O	34:4B:110:LEU:HG	2.11	0.50
35:4C:812:HIS:ND1	35:4C:850:SER:OG	2.43	0.50
36:4D:99:GLU:HA	36:4D:102:CYS:SG	2.51	0.50
37:4E:1105:LEU:HB2	43:5L:137:ARG:NH2	2.27	0.50
37:4F:967:SER:HB3	37:4F:1075:VAL:HG23	1.93	0.50
37:4G:538:GLU:CD	37:4G:664:TYR:CZ	2.90	0.50
37:4G:958:LEU:HD22	38:4L:45:ALA:CB	2.39	0.50
37:4G:1082:LEU:C	38:4L:35:ALA:CA	2.85	0.50
37:4G:1083:ILE:N	38:4L:35:ALA:HA	2.26	0.50
37:4H:508:PRO:CD	38:4M:70:LYS:NZ	2.75	0.50
37:4H:540:VAL:HG11	38:4M:72:ARG:NH1	2.24	0.50
38:4I:77:VAL:HG12	38:4I:78:GLU:N	2.27	0.50
38:4I:77:VAL:CG2	38:4L:61:LEU:CD2	2.84	0.50
38:4J:80:LEU:O	38:4J:84:LEU:HD12	2.11	0.50
39:4Q:67:TRP:HA	44:5P:149:MET:CE	2.41	0.50
39:4Q:142:ARG:O	39:4Q:146:VAL:HG13	2.11	0.50
41:4Y:98:GLN:HA	41:4Y:116:LEU:HA	1.93	0.50
12:4e:31:ASP:HB2	12:4e:32:PRO:HD2	1.94	0.50
13:4f:2:ARG:HD3	13:4f:2:ARG:H	1.76	0.50
43:5I:158:HIS:C	43:5I:160:SER:H	2.20	0.50
43:5J:14:GLN:O	43:5J:18:ILE:CD1	2.59	0.50
43:5K:136:TYR:HA	43:5K:139:TYR:HB2	1.93	0.50
43:5L:35:LYS:NZ	43:5L:42:TYR:OH	2.29	0.50
43:5L:55:TYR:CG	43:5L:76:PHE:HE2	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5L:158:HIS:C	43:5L:160:SER:H	2.20	0.50
44:5U:93:PHE:HZ	44:5U:145:PHE:CE2	2.30	0.50
47:6A:330:MET:HE3	47:6A:334:LYS:HE3	1.94	0.50
47:6B:233:LEU:CD1	13:Bf:415:GLU:CB	2.89	0.50
47:6B:540:ARG:O	47:6B:545:ASP:HB2	2.12	0.50
48:6E:810:LEU:CD2	49:6G:3:VAL:HG11	2.42	0.50
48:6F:47:PHE:CZ	48:6F:52:LEU:HD11	2.46	0.50
49:6I:89:GLU:HG2	49:6I:390:GLN:HA	1.94	0.50
50:6L:150:VAL:O	50:6L:179:GLU:N	2.43	0.50
51:6N:1399:VAL:HA	51:6N:1402:ARG:HE	1.76	0.50
51:6N:1531:GLN:OE1	51:6N:1533:ARG:NH1	2.45	0.50
51:6N:2321:PRO:HB3	51:6N:2357:ARG:HB2	1.93	0.50
12:6a:272:PRO:HD3	12:6a:364:SER:HA	1.94	0.50
12:7a:278:SER:HA	12:7a:281:TYR:HB2	1.93	0.50
13:7d:2:ARG:HD3	13:7d:2:ARG:H	1.76	0.50
13:7d:21:TRP:CZ2	13:7d:65:CYS:HB2	2.47	0.50
13:7d:96:LYS:HA	12:7e:1:MET:CE	2.42	0.50
13:7d:324:VAL:HB	13:7d:327:ASP:HB2	1.93	0.50
12:7g:267:MET:HG2	12:7g:301:CYS:HB3	1.92	0.50
13:7h:251:ASP:H	13:7h:254:GLU:HB2	1.76	0.50
12:8a:6:HIS:HD2	12:8a:134:GLN:HG3	1.76	0.50
13:8f:151:SER:HB2	13:8f:193:SER:OG	2.11	0.50
12:9a:210:ILE:O	12:9a:214:THR:HG22	2.12	0.50
12:9c:134:GLN:HA	12:9c:165:LEU:O	2.11	0.50
12:9c:246:LEU:HB3	12:9c:353:VAL:HG12	1.94	0.50
13:9d:224:TYR:CD2	12:9e:245:GLN:HG2	2.45	0.50
13:9f:2:ARG:HH21	13:9f:243:ARG:HA	1.75	0.50
12:Ag:207:LEU:HB3	12:Ag:225:LEU:HD22	1.93	0.50
12:Ba:404:ASP:HB3	12:Ba:407:GLU:OE1	2.12	0.50
12:Bc:130:LEU:HB3	12:Bc:162:ARG:HD3	1.93	0.50
13:Bd:224:TYR:CD2	12:Be:245:GLN:HG2	2.47	0.50
12:Be:19:LYS:HD2	12:Be:227:HIS:ND1	2.27	0.50
12:Be:172:SER:HB2	12:Be:205:GLU:CG	2.41	0.50
12:Be:186:THR:HG21	12:Be:385:PHE:CE1	2.47	0.50
12:Cc:48:ASN:O	12:Cc:62:ARG:NH2	2.42	0.50
13:Cd:403:ALA:HB2	12:Ce:344:TRP:HZ3	1.76	0.50
12:Ce:272:PRO:HD3	12:Ce:364:SER:HA	1.93	0.50
13:Cf:321:GLY:HA3	13:Cf:372:GLN:O	2.12	0.50
13:Dd:151:SER:HB2	13:Dd:193:SER:OG	2.11	0.50
13:Df:151:SER:HB2	13:Df:193:SER:OG	2.11	0.50
1:0H:406:SER:O	1:0H:410:LYS:HD2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0J:218:VAL:HG22	1:0J:229:VAL:CG2	2.41	0.50
1:0D:86:PRO:HA	1:0D:89:VAL:HG22	1.93	0.50
1:0E:33:ASN:O	1:0F:6:VAL:HG21	2.12	0.50
1:0F:55:PRO:HB2	1:0F:96:ASN:ND2	2.27	0.50
1:0L:184:LYS:HB3	1:0L:217:LEU:HD21	1.93	0.50
1:0P:406:SER:O	1:0P:410:LYS:HD2	2.11	0.50
1:0S:248:VAL:HG12	1:0S:253:PHE:HZ	1.77	0.50
1:0T:45:LEU:C	1:0T:48:PRO:HD2	2.37	0.50
1:0U:179:PRO:HB3	5:1M:377:PRO:HB2	1.93	0.50
1:0V:185:ARG:HH11	1:0V:224:LYS:HG2	1.77	0.50
1:0Y:254:PRO:O	1:0Y:258:THR:HG23	2.11	0.50
1:0Z:23:ALA:O	1:0Z:27:MET:HG2	2.12	0.50
1:1B:361:GLY:HA2	1:1B:403:ALA:HA	1.94	0.50
2:1G:83:SER:O	2:1G:87:LYS:HG2	2.11	0.50
2:1G:319:CYS:N	2:1G:320:PRO:HD2	2.27	0.50
3:1H:196:THR:CB	47:6A:290:GLY:HA3	2.42	0.50
3:1H:1005:PRO:CB	47:6A:406:ARG:HB2	2.42	0.50
3:1I:621:GLU:N	3:1I:622:PRO:HD2	2.27	0.50
4:1J:97:HIS:ND1	4:1J:188:VAL:HG12	2.27	0.50
5:1M:410:VAL:O	5:1M:449:ILE:HG12	2.12	0.50
6:1N:662:GLU:HG3	6:1N:731:GLN:HE21	1.75	0.50
6:1N:1775:VAL:O	6:1N:1779:GLN:HG3	2.12	0.50
6:1N:2648:ALA:HA	6:1N:2695:THR:CG2	2.41	0.50
6:1N:2699:MET:HE2	6:1N:2759:LEU:HG	1.94	0.50
7:1O:1000:TYR:CZ	7:1O:1006:ILE:HG12	2.47	0.50
10:1R:391:SER:H	10:1R:394:ARG:CZ	2.24	0.50
12:1a:208:TYR:CE1	13:1b:326:LYS:HB2	2.47	0.50
12:1a:252:LYS:O	12:1a:256:ASN:OD1	2.30	0.50
13:1d:207:GLU:OE1	13:1d:304:LYS:NZ	2.30	0.50
14:2G:44:LYS:HE2	13:Df:2:ARG:HD2	1.94	0.50
14:2G:122:ALA:CB	13:Bf:322:ASP:OD1	2.59	0.50
24:2T:132:ARG:HE	24:2T:145:TRP:CG	2.28	0.50
13:2b:21:TRP:CZ2	13:2b:65:CYS:HB2	2.47	0.50
13:2f:21:TRP:CZ2	13:2f:65:CYS:HB2	2.47	0.50
13:2f:251:ASP:H	13:2f:254:GLU:HB2	1.76	0.50
12:2g:31:ASP:HB2	12:2g:32:PRO:HD2	1.94	0.50
30:3F:344:ASN:ND2	12:7g:194:GLU:HA	2.24	0.50
32:3J:35:TYR:CD1	32:3J:124:ARG:HB2	2.47	0.50
32:3J:348:ARG:NH2	12:9a:421:GLU:HB2	2.26	0.50
34:3O:304:SER:O	34:3O:307:GLU:HG3	2.11	0.50
34:3T:49:PHE:O	34:3T:53:ILE:HG13	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3c:134:GLN:HA	12:3c:165:LEU:O	2.12	0.50
12:3e:138:SER:OG	53:3e:501:GDP:H5'	2.12	0.50
35:4C:448:VAL:CG2	35:4C:453:LYS:HE2	2.42	0.50
36:4D:54:ALA:HB1	36:4D:284:GLU:HA	1.94	0.50
37:4E:773:ARG:HH12	37:4E:1621:LYS:HD2	1.76	0.50
37:4E:1375:SER:HB2	37:4E:1386:PHE:CE1	2.46	0.50
37:4F:537:LEU:CD1	38:4K:54:GLU:HG3	2.40	0.50
37:4G:1315:VAL:O	38:4L:26:GLU:OE2	2.30	0.50
37:4H:514:TYR:HE2	37:4H:538:GLU:CB	2.18	0.50
37:4H:597:SER:OG	37:4H:1774:VAL:HG13	2.12	0.50
38:4M:74:ASP:OD2	38:4M:74:ASP:N	2.45	0.50
39:4S:142:ARG:O	39:4S:146:VAL:HG13	2.11	0.50
40:4T:541:ARG:HG2	40:4T:646:LEU:HB3	1.93	0.50
41:4X:169:LEU:O	43:5I:151:THR:HA	2.12	0.50
12:4e:99:ASN:HA	12:4e:142:GLY:H	1.76	0.50
42:5G:131:ARG:HA	42:5G:135:ARG:HD2	1.94	0.50
42:5H:136:HIS:CB	43:5L:51:HIS:CA	2.89	0.50
42:5H:136:HIS:CB	43:5L:146:TYR:HE2	2.24	0.50
43:5L:84:HIS:O	43:5L:87:ILE:HB	2.11	0.50
12:5c:73:MET:HE2	12:5c:90:PHE:HD2	1.77	0.50
47:6A:381:GLN:HB2	47:6A:386:GLN:HE21	1.75	0.50
47:6A:540:ARG:O	47:6A:545:ASP:HB2	2.12	0.50
47:6B:399:LYS:HD3	3:6D:994:GLN:CD	2.36	0.50
47:6B:1618:TYR:CZ	51:6N:1947:PRO:HG2	2.47	0.50
48:6F:266:ARG:HA	48:6F:289:LEU:HD13	1.94	0.50
49:6G:299:MET:HE3	49:6G:314:LYS:HB3	1.93	0.50
49:6H:252:GLU:HG3	49:6H:415:HIS:CE1	2.45	0.50
49:6I:316:THR:HG23	49:6I:319:GLN:H	1.77	0.50
49:6J:89:GLU:HG2	49:6J:390:GLN:HA	1.94	0.50
49:6J:316:THR:HG23	49:6J:319:GLN:H	1.77	0.50
50:6L:31:ALA:HA	50:6L:37:ARG:HA	1.94	0.50
51:6M:1531:GLN:OE1	51:6M:1533:ARG:NH1	2.45	0.50
51:6M:1900:VAL:HG11	51:6M:1916:ARG:NH1	2.27	0.50
51:6N:1900:VAL:HG11	51:6N:1916:ARG:NH1	2.27	0.50
12:6a:112:LEU:HD12	12:6a:112:LEU:C	2.37	0.50
13:6d:72:PRO:HG3	12:6e:1:MET:CE	2.39	0.50
13:6f:321:GLY:HA3	13:6f:372:GLN:O	2.12	0.50
13:6h:321:GLY:HA3	13:6h:372:GLN:O	2.12	0.50
13:7b:2:ARG:HD3	13:7b:2:ARG:H	1.76	0.50
12:7e:31:ASP:HB2	12:7e:32:PRO:HD2	1.94	0.50
12:7e:50:TYR:CE2	12:7e:241:ARG:HD3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8c:73:MET:HE2	12:8c:90:PHE:HD2	1.76	0.50
13:8d:251:ASP:H	13:8d:254:GLU:HB2	1.76	0.50
13:8h:21:TRP:CZ2	13:8h:65:CYS:HB2	2.47	0.50
13:8h:151:SER:HB2	13:8h:193:SER:OG	2.11	0.50
12:9a:154:LYS:HA	12:9a:157:GLU:OE1	2.11	0.50
12:9a:396:HIS:CE1	13:9b:263:PRO:HG3	2.46	0.50
13:9b:321:GLY:HA3	13:9b:372:GLN:O	2.12	0.50
12:9c:161:ASP:OD1	12:9c:161:ASP:N	2.43	0.50
12:9e:108:GLU:HA	12:9e:111:GLU:CD	2.36	0.50
13:9f:251:ASP:H	13:9f:254:GLU:HB2	1.76	0.50
12:Aa:404:ASP:HB3	12:Aa:407:GLU:OE1	2.12	0.50
13:Ab:21:TRP:CZ2	13:Ab:65:CYS:HB2	2.47	0.50
12:Ac:329:GLN:O	12:Ac:333:VAL:HG13	2.11	0.50
13:Ah:21:TRP:CZ2	13:Ah:65:CYS:HB2	2.47	0.50
12:Bg:284:LEU:HD23	12:Bg:362:LYS:HB3	1.94	0.50
12:Cg:101:TRP:HD1	12:Cg:145:SER:OG	1.94	0.50
13:Ch:251:ASP:H	13:Ch:254:GLU:HB2	1.76	0.50
12:Da:31:ASP:HB2	12:Da:32:PRO:HD2	1.94	0.50
12:Da:210:ILE:O	12:Da:214:THR:HG22	2.11	0.50
12:De:52:ASN:HB3	12:De:60:VAL:CG1	2.42	0.50
1:0H:89:VAL:HG21	1:0H:125:GLY:CA	2.41	0.50
1:0H:301:TYR:O	1:0H:305:SER:CB	2.54	0.50
1:0H:344:LEU:HA	1:0H:347:GLU:CD	2.36	0.50
1:0C:6:VAL:HG22	1:0D:27:MET:SD	2.52	0.50
1:0C:253:PHE:HA	1:0C:256:ILE:HB	1.93	0.50
1:0D:91:SER:OG	1:0D:100:LYS:HA	2.12	0.50
1:0L:214:LEU:HD22	1:0L:229:VAL:HG12	1.93	0.50
1:0M:80:VAL:HG21	1:0M:117:LEU:HD22	1.94	0.50
1:0O:261:LYS:HE2	1:0O:261:LYS:HA	1.93	0.50
1:0P:4:ARG:HG3	1:0P:8:GLN:NE2	2.27	0.50
1:0Q:196:LYS:HA	1:0Q:239:HIS:HE1	1.77	0.50
1:0T:253:PHE:HA	1:0T:256:ILE:HB	1.94	0.50
1:0Y:168:ALA:O	1:0Y:172:LEU:HG	2.10	0.50
1:1C:104:ALA:HB3	1:1C:144:ALA:HB1	1.93	0.50
2:1G:60:ASP:O	2:1G:62:LEU:N	2.37	0.50
3:1H:584:ARG:HA	3:1H:587:VAL:HG12	1.92	0.50
3:1H:944:GLU:HG2	3:1H:983:ARG:HH12	1.77	0.50
7:1O:1647:VAL:HG13	7:1O:1731:VAL:O	2.12	0.50
9:1Q:726:LEU:C	9:1Q:727:LEU:O	2.55	0.50
10:1R:432:THR:OG1	12:Aa:77:ARG:HD3	2.12	0.50
13:1b:2:ARG:HD3	13:1b:2:ARG:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1c:274:THR:HG21	12:1c:279:GLN:HA	1.92	0.50
13:1d:2:ARG:HD3	13:1d:2:ARG:H	1.75	0.50
14:2F:42:ASN:HD22	13:Db:1:MET:N	2.10	0.50
20:2N:30:UNK:HA	13:6f:372:GLN:HG2	1.93	0.50
24:2T:141:ARG:HH21	13:Dh:215:ARG:HH22	1.58	0.50
24:2T:202:ARG:NH1	12:Cg:410:GLU:OE2	2.45	0.50
13:2b:224:TYR:CD2	12:2c:245:GLN:HG2	2.46	0.50
12:2c:139:LEU:HG	12:2c:168:SER:OG	2.12	0.50
12:2c:330:MET:HG3	12:2c:351:SER:OG	2.12	0.50
12:2e:6:HIS:HD2	12:2e:134:GLN:HG3	1.76	0.50
13:2h:21:TRP:CZ2	13:2h:65:CYS:HB2	2.47	0.50
30:3F:300:ARG:HA	30:3F:303:GLU:CD	2.37	0.50
33:3L:175:ALA:O	33:3L:176:PHE:C	2.55	0.50
33:3L:197:LEU:HD12	12:7e:412:GLU:CD	2.36	0.50
34:3N:74:LEU:HD21	34:3N:191:ALA:HB1	1.94	0.50
34:3N:280:TRP:HA	34:3N:283:THR:HG22	1.94	0.50
34:3R:90:GLU:HA	34:3R:93:VAL:HG12	1.94	0.50
34:3T:269:GLY:O	34:3T:273:ARG:HG3	2.12	0.50
12:3g:141:GLY:O	12:3g:145:SER:OG	2.24	0.50
13:3h:76:ASP:HA	13:3h:79:ARG:HD2	1.94	0.50
34:4B:458:ALA:O	34:4B:462:GLU:HG2	2.11	0.50
37:4E:576:ALA:HA	37:4E:581:LEU:CG	2.42	0.50
37:4E:1156:LEU:CD2	37:4E:1162:VAL:HG22	2.39	0.50
37:4F:1078:PRO:O	37:4F:1080:GLY:N	2.44	0.50
37:4F:1083:ILE:C	38:4N:38:VAL:CA	2.61	0.50
37:4F:1162:VAL:HB	37:4F:1299:ARG:NH1	2.27	0.50
37:4F:1162:VAL:N	37:4F:1299:ARG:HH12	2.02	0.50
37:4F:1286:THR:HG22	37:4F:1297:THR:HG23	1.94	0.50
37:4F:1323:ILE:C	37:4F:1323:ILE:HG22	2.37	0.50
37:4G:539:GLN:NE2	37:4G:543:ASN:ND2	2.59	0.50
37:4G:1092:LEU:O	38:4L:37:GLY:N	2.45	0.50
37:4G:1321:THR:O	38:4L:26:GLU:CG	2.60	0.50
37:4H:974:VAL:CG1	37:4H:975:VAL:N	2.70	0.50
37:4H:1071:THR:HG21	37:4H:1458:PRO:HG3	1.94	0.50
38:4I:25:PRO:HA	38:4I:28:VAL:HG23	1.93	0.50
39:4Q:119:LYS:O	39:4Q:123:LYS:HG2	2.12	0.50
39:4R:119:LYS:O	39:4R:123:LYS:HG2	2.12	0.50
39:4S:12:ALA:HB2	43:5K:132:LEU:HD13	1.94	0.50
40:4U:541:ARG:HG2	40:4U:646:LEU:HB3	1.93	0.50
12:4a:3:GLU:HB3	12:4a:62:ARG:NH2	2.27	0.50
12:4a:201:VAL:HG12	12:4a:266:PHE:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4b:2:ARG:HD3	13:4b:2:ARG:H	1.76	0.50
41:5A:164:GLY:O	43:5L:165:LEU:HD13	2.11	0.50
42:5E:135:ARG:HB2	42:5E:136:HIS:CD2	2.46	0.50
42:5G:135:ARG:HB2	42:5G:136:HIS:CD2	2.46	0.50
43:5I:39:LEU:HD11	43:5I:51:HIS:CD2	2.47	0.50
43:5J:83:HIS:O	43:5J:87:ILE:HG13	2.12	0.50
43:5J:133:ASP:HB2	43:5J:137:ARG:HH11	1.77	0.50
43:5K:14:GLN:O	43:5K:18:ILE:HD12	2.12	0.50
43:5K:113:PRO:HG3	44:5U:112:VAL:CG1	2.35	0.50
43:5L:106:ALA:O	43:5L:116:VAL:N	2.45	0.50
44:5Q:93:PHE:HE2	44:5Q:145:PHE:HD2	1.59	0.50
12:5e:404:ASP:HB3	12:5e:407:GLU:OE1	2.12	0.50
12:5g:86:ARG:HA	12:6g:281:TYR:CD1	2.47	0.50
47:6A:1618:TYR:CZ	51:6M:1947:PRO:HG2	2.47	0.50
47:6B:392:LEU:HD11	3:6D:983:ARG:HE	1.77	0.50
47:6B:838:ARG:HA	47:6B:853:HIS:HE1	1.75	0.50
3:6D:930:LYS:O	3:6D:934:LEU:HG	2.12	0.50
48:6E:181:GLY:O	48:6E:184:SER:OG	2.30	0.50
50:6K:405:LEU:HD13	50:6K:450:GLU:HB3	1.93	0.50
50:6K:440:ASN:HD22	50:6K:472:PRO:HB2	1.76	0.50
51:6M:1399:VAL:HA	51:6M:1402:ARG:HE	1.76	0.50
51:6M:1616:LEU:HB3	51:6M:1817:GLN:O	2.12	0.50
51:6N:1822:ALA:O	51:6N:1825:VAL:HG22	2.11	0.50
12:6a:86:ARG:HA	12:7a:281:TYR:CD1	2.46	0.50
13:6f:73:THR:OG1	12:6g:247:ASN:ND2	2.45	0.50
12:6g:178:THR:HG22	13:6h:352:LYS:HZ3	1.77	0.50
13:7d:404:PHE:CD1	12:7e:259:PRO:HA	2.47	0.50
12:7g:60:VAL:HG11	12:7g:86:ARG:NH2	2.22	0.50
12:8a:330:MET:HG3	12:8a:351:SER:OG	2.11	0.50
13:8b:324:VAL:HB	13:8b:327:ASP:HB2	1.93	0.50
13:8d:21:TRP:CZ2	13:8d:65:CYS:HB2	2.47	0.50
12:8e:161:ASP:OD1	12:8e:161:ASP:N	2.45	0.50
12:8g:210:ILE:O	12:8g:214:THR:OG1	2.22	0.50
13:9b:2:ARG:HH21	13:9b:243:ARG:HA	1.75	0.50
12:Aa:207:LEU:HB3	12:Aa:225:LEU:HD22	1.94	0.50
12:Ac:207:LEU:O	12:Ac:210:ILE:HG22	2.11	0.50
12:Ae:404:ASP:HB3	12:Ae:407:GLU:OE1	2.12	0.50
12:Ba:208:TYR:CE1	12:Ba:225:LEU:HD11	2.47	0.50
12:Ba:278:SER:C	12:Ba:281:TYR:HB2	2.36	0.50
12:Be:379:LYS:O	12:Be:383:GLU:HG2	2.12	0.50
13:Cd:321:GLY:HA3	13:Cd:372:GLN:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Cg:68:LEU:HB3	12:Cg:96:GLY:HA2	1.94	0.50
12:Cg:207:LEU:HB3	12:Cg:225:LEU:HD22	1.94	0.50
13:Db:179:THR:O	12:Dc:350:LYS:HD2	2.12	0.50
12:De:161:ASP:OD1	12:De:161:ASP:N	2.45	0.50
13:Df:177:VAL:CB	12:Dg:331:LEU:HD22	2.34	0.50
12:Dg:272:PRO:HD3	12:Dg:364:SER:HA	1.94	0.50
1:0J:276:ARG:HA	1:0J:316:ALA:HB2	1.94	0.50
1:0I:114:SER:HB3	1:0I:117:LEU:HG	1.92	0.50
1:0I:282:THR:OG1	1:0I:285:LEU:HG	2.12	0.50
1:0A:323:PHE:CE2	47:6A:277:PHE:CE1	2.97	0.49
1:0C:252:ILE:HG22	1:0C:256:ILE:HG12	1.94	0.49
1:0E:196:LYS:HB3	1:0E:235:GLN:HG3	1.94	0.49
1:0F:134:LEU:HG	1:0F:145:SER:OG	2.12	0.49
1:0L:85:LEU:HA	1:0L:88:LEU:HD12	1.94	0.49
1:0L:185:ARG:HG3	1:0L:186:ILE:N	2.26	0.49
1:0P:257:LEU:HD23	1:0P:260:LEU:HD21	1.93	0.49
1:0R:24:VAL:HG12	1:0R:64:ALA:HB1	1.93	0.49
1:0R:269:LYS:HB2	1:0R:309:ASN:HB2	1.94	0.49
1:0V:380:LEU:O	1:0V:384:VAL:HG23	2.12	0.49
1:0X:86:PRO:HA	1:0X:89:VAL:HG12	1.94	0.49
1:0X:256:ILE:HG23	1:0X:271:SER:HB2	1.94	0.49
1:0Y:243:LEU:O	1:0Y:247:VAL:HG23	2.11	0.49
1:0Y:369:ASP:OD2	1:0Y:370:HIS:N	2.45	0.49
1:1C:185:ARG:HD3	1:1C:224:LYS:HD3	1.94	0.49
1:1C:316:ALA:O	1:1C:320:ILE:HG23	2.12	0.49
2:1E:49:GLN:HG3	2:1E:51:VAL:HG22	1.93	0.49
2:1F:12:ALA:HB1	13:Ah:430:LYS:CE	2.41	0.49
2:1G:61:VAL:HG13	2:1G:64:THR:CG2	2.41	0.49
3:1H:576:THR:HA	3:1H:629:TRP:CZ3	2.47	0.49
3:1H:984:GLN:HG2	47:6A:395:VAL:HG21	1.94	0.49
4:1K:227:PHE:CD1	4:1K:229:LEU:HG	2.46	0.49
5:1L:410:VAL:O	5:1L:449:ILE:HG12	2.12	0.49
6:1N:9:GLN:HE22	6:1N:13:GLN:HE21	1.60	0.49
6:1N:2483:GLU:HA	6:1N:2488:LEU:HD23	1.94	0.49
6:1N:2662:TRP:CZ3	6:1N:2667:ARG:O	2.64	0.49
7:1O:1482:LEU:HD23	44:5V:113:MET:SD	2.52	0.49
8:1P:769:VAL:HG13	8:1P:775:ARG:HD3	1.94	0.49
10:1S:135:THR:O	10:1S:140:VAL:HG21	2.11	0.49
12:1a:334:GLN:NE2	12:1a:349:VAL:HG12	2.27	0.49
13:1h:21:TRP:CZ2	13:1h:65:CYS:HB2	2.47	0.49
20:2N:47:UNK:CB	12:6e:217:LEU:HD11	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:2N:47:UNK:HA	12:6e:276:ARG:HG3	1.93	0.49
24:2T:145:TRP:CH2	24:2T:158:VAL:HG23	2.47	0.49
12:2a:274:THR:HG22	12:2a:282:ARG:HD3	1.94	0.49
29:3E:1191:TRP:CD1	29:3E:1191:TRP:C	2.90	0.49
30:3G:725:TYR:OH	13:6b:152:LEU:HD21	2.12	0.49
31:3H:112:VAL:O	31:3H:116:VAL:HG23	2.12	0.49
34:3M:261:ARG:HE	34:3M:470:SER:HB3	1.77	0.49
34:3Q:89:ILE:O	34:3Q:93:VAL:HG13	2.12	0.49
34:3Q:496:TYR:CE1	34:3T:471:ARG:HG3	2.46	0.49
34:3R:334:LEU:HD13	34:3R:397:LEU:HD23	1.94	0.49
34:3U:431:GLY:HA2	34:3U:434:ASP:OD1	2.12	0.49
34:3W:287:CYS:SG	34:3W:445:TYR:HB2	2.52	0.49
34:3Y:64:HIS:HE1	34:3Y:427:ALA:HA	1.77	0.49
12:3e:272:PRO:HD3	12:3e:364:SER:HA	1.94	0.49
13:3f:76:ASP:HA	13:3f:79:ARG:HD2	1.94	0.49
13:3f:406:HIS:CG	12:3g:261:PRO:HD3	2.47	0.49
35:4C:790:LEU:HD23	35:4C:880:VAL:HB	1.94	0.49
35:4C:804:MET:HE1	35:4C:891:SER:HA	1.92	0.49
36:4D:179:SER:HA	36:4D:236:HIS:CE1	2.45	0.49
37:4F:544:MET:HE1	38:4N:70:LYS:C	2.37	0.49
37:4F:1082:LEU:CD2	38:4N:42:ILE:N	2.75	0.49
37:4G:826:LEU:HB3	38:4L:82:TYR:CE1	2.47	0.49
37:4G:951:ASN:O	37:4G:953:PRO:HD3	2.12	0.49
37:4G:1075:VAL:HG11	37:4G:1352:PRO:HG2	1.92	0.49
37:4H:934:TRP:HE3	37:4H:959:LEU:HB2	1.76	0.49
37:4H:1093:VAL:HB	38:4M:32:GLU:CA	2.25	0.49
37:4H:1322:ARG:C	38:4M:25:PRO:HG2	2.35	0.49
38:4J:74:ASP:OD2	38:4J:74:ASP:N	2.45	0.49
38:4K:30:ALA:O	38:4K:33:LYS:CA	2.60	0.49
38:4K:74:ASP:OD2	38:4K:74:ASP:N	2.45	0.49
38:4L:74:ASP:N	38:4L:74:ASP:OD2	2.45	0.49
38:4N:32:GLU:CG	38:4N:33:LYS:NZ	2.75	0.49
39:4S:119:LYS:O	39:4S:123:LYS:HG2	2.12	0.49
41:4Z:32:ILE:O	41:4Z:81:TYR:HA	2.12	0.49
12:4c:73:MET:HE2	12:4c:90:PHE:HD2	1.77	0.49
12:4c:207:LEU:HB3	12:4c:225:LEU:HD22	1.94	0.49
12:4e:178:THR:HG23	12:4e:181:GLU:HB2	1.94	0.49
42:5H:136:HIS:CA	43:5L:51:HIS:CA	2.84	0.49
42:5H:136:HIS:HE1	43:5L:54:LEU:HB2	1.74	0.49
43:5J:106:ALA:O	43:5J:116:VAL:N	2.45	0.49
43:5L:32:LEU:HG	43:5L:36:TYR:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5a:309:ARG:NH2	12:5a:343:GLU:OE1	2.45	0.49
13:5b:321:GLY:HA3	13:5b:372:GLN:O	2.12	0.49
12:5e:257:LEU:HD21	12:5e:314:SER:HB3	1.93	0.49
12:5e:278:SER:HA	12:5e:281:TYR:HD2	1.77	0.49
47:6A:489:ALA:HB1	47:6A:1201:ARG:CZ	2.42	0.49
47:6A:1647:GLN:HE22	47:6A:1673:TRP:N	2.10	0.49
47:6B:24:ASP:O	47:6B:30:LEU:HD12	2.12	0.49
47:6B:139:THR:O	47:6B:142:GLU:HG2	2.12	0.49
47:6B:290:GLY:HA3	3:6D:197:SER:N	2.27	0.49
48:6E:810:LEU:HG	49:6G:3:VAL:HG11	1.93	0.49
48:6F:196:ASN:HB2	48:6F:218:ASN:HD21	1.76	0.49
48:6F:569:VAL:HG12	48:6F:623:PRO:HB2	1.93	0.49
48:6F:675:PHE:HA	48:6F:820:LEU:HG	1.93	0.49
48:6F:1022:GLN:NE2	50:6L:399:LEU:HD23	2.26	0.49
50:6K:150:VAL:HB	50:6K:154:PHE:HZ	1.76	0.49
50:6K:461:LEU:HD12	50:6K:461:LEU:O	2.12	0.49
50:6L:461:LEU:HD12	50:6L:461:LEU:O	2.12	0.49
51:6M:1276:GLU:OE1	51:6M:1283:LEU:HD23	2.12	0.49
51:6N:2064:ARG:NH2	51:6N:2090:CYS:SG	2.85	0.49
12:6g:391:ARG:HG2	13:6h:262:TYR:OH	2.12	0.49
12:7c:20:PHE:HA	12:7c:230:SER:HB3	1.94	0.49
12:8a:272:PRO:HD3	12:8a:364:SER:HA	1.93	0.49
12:8c:68:LEU:HD23	12:8c:143:THR:HG22	1.93	0.49
13:8f:251:ASP:H	13:8f:254:GLU:HB2	1.76	0.49
12:8g:177:ASP:O	13:8h:352:LYS:HA	2.11	0.49
12:8g:207:LEU:HB3	12:8g:225:LEU:HD22	1.93	0.49
12:9e:121:ARG:HG2	12:9e:125:GLU:OE2	2.12	0.49
13:9f:321:GLY:HA3	13:9f:372:GLN:O	2.12	0.49
13:9h:324:VAL:HB	13:9h:327:ASP:HB2	1.93	0.49
13:Ab:212:ILE:O	13:Ab:216:SER:OG	2.25	0.49
13:Af:21:TRP:CZ2	13:Af:65:CYS:HB2	2.47	0.49
12:Ag:341:PHE:HB3	12:Ag:348:ASN:ND2	2.26	0.49
13:Ah:321:GLY:HA3	13:Ah:372:GLN:O	2.12	0.49
13:Bb:21:TRP:CZ2	13:Bb:65:CYS:HB2	2.46	0.49
12:Bg:391:ARG:NH2	13:Bh:438:GLU:O	2.45	0.49
13:Bh:21:TRP:CZ2	13:Bh:65:CYS:HB2	2.47	0.49
13:Bh:212:ILE:O	13:Bh:216:SER:OG	2.25	0.49
12:Ca:114:ASP:N	12:Ca:114:ASP:OD2	2.45	0.49
13:Cd:76:ASP:HA	13:Cd:79:ARG:HD2	1.94	0.49
12:Cg:328:GLU:OE2	12:Cg:329:GLN:NE2	2.45	0.49
12:Da:98:GLY:O	13:Db:257:THR:OG1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:De:48:ASN:O	12:De:62:ARG:NH2	2.43	0.49
12:Dg:31:ASP:HB2	12:Dg:32:PRO:HD2	1.94	0.49
12:Dg:275:SER:O	12:Dg:279:GLN:HG3	2.11	0.49
1:0J:153:ALA:HA	1:0J:160:ALA:HB2	1.94	0.49
44:5P:93:PHE:HB3	44:5P:142:TYR:HB2	1.94	0.49
1:0A:392:SER:O	1:0A:396:LEU:HB3	2.11	0.49
1:0D:110:VAL:HG12	1:0D:117:LEU:HB3	1.94	0.49
1:0E:147:TRP:HZ2	1:0E:151:TYR:HH	1.54	0.49
1:0E:322:ALA:HB2	1:0E:362:GLN:HG2	1.94	0.49
1:0F:326:THR:HG23	39:4Q:122:LEU:HD21	1.93	0.49
1:0G:325:GLU:HG3	1:0G:366:HIS:CD2	2.47	0.49
1:0G:348:PRO:HA	1:0G:353:LYS:HE3	1.92	0.49
1:0L:322:ALA:HB2	1:0L:362:GLN:HG2	1.92	0.49
1:0M:222:ASP:HB2	1:0M:225:LEU:HD13	1.93	0.49
1:0M:224:LYS:O	1:0M:228:GLN:HG2	2.12	0.49
1:0O:45:LEU:O	1:0O:49:LEU:HD23	2.13	0.49
1:0Q:67:ARG:HA	1:0Q:70:ASN:ND2	2.27	0.49
1:0R:279:ALA:O	1:0R:323:PHE:HE2	1.94	0.49
1:0U:64:ALA:O	1:0U:68:LEU:HG	2.13	0.49
1:0V:252:ILE:HA	1:0V:255:LYS:HE2	1.92	0.49
1:0X:92:LEU:HA	1:0X:100:LYS:HG2	1.93	0.49
1:0Y:373:ALA:HA	1:0Y:376:ASP:OD2	2.12	0.49
1:0Z:253:PHE:HA	1:0Z:256:ILE:HB	1.94	0.49
1:1A:154:GLY:HA2	1:1A:197:HIS:NE2	2.26	0.49
1:1B:278:VAL:HG23	1:1B:285:LEU:HD23	1.93	0.49
1:1B:285:LEU:O	1:1B:289:VAL:HG23	2.11	0.49
2:1E:153:GLN:O	2:1E:156:VAL:HG22	2.12	0.49
2:1G:207:LYS:O	2:1G:210:VAL:HG12	2.13	0.49
3:1I:649:SER:HB2	3:1I:688:LEU:HD13	1.94	0.49
4:1J:227:PHE:CD1	4:1J:229:LEU:HG	2.46	0.49
5:1L:419:GLU:HB2	5:1L:420:PRO:HD3	1.94	0.49
5:1L:518:LEU:HD13	13:1b:417:GLU:OE1	2.12	0.49
7:1O:632:LEU:HD13	7:1O:635:LEU:HD12	1.94	0.49
10:1S:57:LYS:HG3	13:Ah:339:ARG:HH12	1.77	0.49
10:1S:397:PRO:HG2	13:Bf:337:THR:O	2.12	0.49
13:1h:2:ARG:HD3	13:1h:2:ARG:H	1.76	0.49
14:2G:34:GLU:HG2	14:2G:35:GLY:N	2.27	0.49
21:2O:6:UNK:O	21:2O:7:UNK:C	2.60	0.49
25:2W:40:UNK:O	13:2b:426:ALA:HB1	2.11	0.49
12:2c:134:GLN:HA	12:2c:165:LEU:O	2.11	0.49
13:2d:21:TRP:CZ2	13:2d:65:CYS:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2g:173:PRO:HA	12:2g:380:ARG:HD2	1.93	0.49
34:3M:423:GLU:HA	34:3M:426:LEU:HD12	1.94	0.49
34:3N:90:GLU:O	34:3N:93:VAL:HG12	2.12	0.49
34:3R:295:GLN:HE22	34:3R:299:LEU:HD11	1.77	0.49
34:3T:201:ALA:HA	34:3T:204:MET:HE2	1.94	0.49
34:3X:420:ALA:O	34:3X:423:GLU:HG3	2.11	0.49
12:3c:73:MET:HE2	12:3c:90:PHE:HD2	1.77	0.49
13:3d:76:ASP:HA	13:3d:79:ARG:HD2	1.95	0.49
34:4A:88:ALA:O	34:4A:92:THR:HG23	2.12	0.49
35:4C:397:LEU:HD12	35:4C:398:PRO:HD2	1.94	0.49
35:4C:1088:GLN:NE2	37:4E:724:LEU:HD22	2.27	0.49
37:4E:577:LEU:C	43:5L:43:GLN:HE21	2.20	0.49
37:4F:623:ARG:HH12	37:4F:688:LEU:HD21	1.76	0.49
37:4F:1099:PRO:HB2	37:4F:1133:ASN:HD22	1.77	0.49
37:4H:672:PHE:HB3	38:4J:39:HIS:HE1	1.76	0.49
37:4H:854:TYR:CD2	38:4M:82:TYR:HE2	2.29	0.49
37:4H:1093:VAL:CA	38:4M:36:VAL:HG13	2.43	0.49
37:4H:1341:ILE:HG12	38:4M:31:ALA:CB	2.16	0.49
38:4I:74:ASP:OD2	38:4I:74:ASP:N	2.45	0.49
38:4J:32:GLU:CG	38:4J:33:LYS:NZ	2.74	0.49
38:4J:80:LEU:C	38:4J:82:TYR:N	2.71	0.49
38:4K:32:GLU:CG	38:4K:33:LYS:NZ	2.74	0.49
38:4M:77:VAL:HG12	38:4M:78:GLU:N	2.27	0.49
39:4R:37:ILE:HG13	44:5T:116:LEU:HD13	1.94	0.49
39:4S:181:SER:O	39:4S:185:VAL:HG23	2.12	0.49
13:4b:221:ARG:HG2	12:4c:325:GLU:CD	2.36	0.49
12:4g:48:ASN:O	12:4g:62:ARG:NH2	2.42	0.49
12:4g:183:TYR:OH	12:4g:388:MET:HB3	2.12	0.49
41:5A:121:GLN:CB	43:5L:169:LEU:HG	2.41	0.49
41:5C:161:PHE:HA	41:5C:165:SER:O	2.12	0.49
42:5H:49:ILE:HG23	43:5L:144:TYR:CD1	2.44	0.49
42:5H:91:TYR:HB3	43:5L:40:ASN:O	2.12	0.49
42:5H:94:CYS:H	43:5L:45:ASN:CB	2.24	0.49
42:5H:141:GLN:HA	43:5L:47:LYS:NZ	2.27	0.49
43:5I:55:TYR:CG	43:5I:76:PHE:HE2	2.30	0.49
43:5I:106:ALA:O	43:5I:116:VAL:N	2.45	0.49
43:5J:71:LYS:HA	43:5J:118:LEU:HD21	1.94	0.49
43:5K:55:TYR:CG	43:5K:76:PHE:HE2	2.30	0.49
43:5K:133:ASP:HB2	43:5K:137:ARG:HH11	1.77	0.49
43:5K:158:HIS:C	43:5K:160:SER:H	2.20	0.49
43:5L:14:GLN:O	43:5L:18:ILE:HD12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5L:27:LEU:O	43:5L:31:ASP:HB2	2.10	0.49
44:5S:93:PHE:HZ	44:5S:145:PHE:HE2	1.60	0.49
13:5d:76:ASP:HA	13:5d:79:ARG:HD2	1.94	0.49
13:5d:324:VAL:HB	13:5d:327:ASP:HB2	1.93	0.49
47:6B:489:ALA:HB1	47:6B:1201:ARG:CZ	2.42	0.49
47:6B:1647:GLN:HE22	47:6B:1673:TRP:N	2.10	0.49
48:6E:127:VAL:HG23	48:6E:153:LEU:CD2	2.41	0.49
48:6E:196:ASN:HB2	48:6E:218:ASN:HD21	1.76	0.49
48:6E:266:ARG:HA	48:6E:289:LEU:HD13	1.94	0.49
48:6E:569:VAL:HG12	48:6E:623:PRO:HB2	1.93	0.49
48:6E:957:HIS:HB3	50:6K:412:ALA:CB	2.41	0.49
48:6F:181:GLY:O	48:6F:184:SER:OG	2.30	0.49
48:6F:810:LEU:HG	49:6H:3:VAL:HG11	1.94	0.49
49:6I:80:PRO:HB3	49:6I:419:GLU:HA	1.93	0.49
50:6K:517:SER:O	50:6K:521:ILE:HG12	2.11	0.49
50:6L:405:LEU:HD13	50:6L:450:GLU:HB3	1.93	0.49
51:6M:2064:ARG:NH2	51:6M:2090:CYS:SG	2.85	0.49
51:6N:1276:GLU:OE1	51:6N:1283:LEU:HD23	2.12	0.49
51:6N:1533:ARG:HH21	51:6N:1985:VAL:N	2.10	0.49
51:6N:1616:LEU:HB3	51:6N:1817:GLN:O	2.12	0.49
51:6N:2031:ARG:HD2	51:6N:2131:VAL:HB	1.94	0.49
12:6a:6:HIS:HD2	12:6a:134:GLN:HG3	1.77	0.49
12:6c:134:GLN:HA	12:6c:165:LEU:O	2.12	0.49
12:6g:134:GLN:HA	12:6g:165:LEU:O	2.12	0.49
12:7a:31:ASP:HB2	12:7a:32:PRO:HD2	1.94	0.49
13:7b:324:VAL:HB	13:7b:327:ASP:HB2	1.93	0.49
12:7c:236:ILE:HG12	12:7c:368:ILE:HD11	1.94	0.49
12:7g:245:GLN:HB3	12:7g:353:VAL:HG13	1.93	0.49
12:8c:190:HIS:O	12:8c:193:VAL:HG12	2.12	0.49
13:8f:21:TRP:CZ2	13:8f:65:CYS:HB2	2.47	0.49
12:8g:343:GLU:OE2	12:8g:429:SER:HA	2.12	0.49
12:9c:110:ALA:HA	12:9c:113:ILE:CG2	2.42	0.49
13:9d:212:ILE:O	13:9d:216:SER:OG	2.25	0.49
13:9f:212:ILE:O	13:9f:216:SER:OG	2.25	0.49
12:Ae:208:TYR:CZ	12:Ae:225:LEU:HD11	2.48	0.49
12:Bc:280:GLN:NE2	12:Bc:281:TYR:CE2	2.80	0.49
12:Be:101:TRP:HD1	12:Be:145:SER:OG	1.94	0.49
13:Bf:21:TRP:CZ2	13:Bf:65:CYS:HB2	2.46	0.49
13:Bf:321:GLY:HA3	13:Bf:372:GLN:O	2.12	0.49
13:Cb:76:ASP:HA	13:Cb:79:ARG:HD2	1.95	0.49
13:Cb:321:GLY:HA3	13:Cb:372:GLN:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Cg:140:GLY:HA3	12:Cg:181:GLU:OE1	2.12	0.49
13:Db:321:GLY:HA3	13:Db:372:GLN:O	2.12	0.49
12:De:206:ALA:O	12:De:210:ILE:HG23	2.12	0.49
12:Dg:330:MET:HB3	12:Dg:349:VAL:HG11	1.94	0.49
1:0H:4:ARG:HG3	1:0H:8:GLN:NE2	2.27	0.49
1:0W:108:ARG:NH2	1:0W:144:ALA:HB1	2.27	0.49
1:0K:17:ARG:O	1:0K:21:VAL:HG22	2.12	0.49
1:0A:3:THR:HG22	1:0A:6:VAL:HG23	1.93	0.49
1:0A:286:ALA:HB1	1:0A:320:ILE:HG12	1.94	0.49
1:0C:184:LYS:HB3	1:0C:217:LEU:HD21	1.93	0.49
1:0F:276:ARG:HD2	1:0F:315:MET:SD	2.52	0.49
1:0F:341:VAL:HG22	1:0F:379:CYS:SG	2.52	0.49
1:0G:134:LEU:HD21	1:0G:146:ALA:HB2	1.94	0.49
1:0G:162:GLN:HA	1:0G:165:ASP:OD1	2.12	0.49
1:0G:349:GLU:HB2	1:0G:352:LEU:HB3	1.94	0.49
1:0M:241:VAL:HG22	1:0M:281:HIS:HD2	1.78	0.49
1:0O:87:GLN:HA	1:0O:90:TYR:HD2	1.76	0.49
1:0O:412:THR:OG1	1:0O:413:HIS:N	2.45	0.49
1:0S:394:ASP:N	1:0S:394:ASP:OD2	2.46	0.49
1:0U:252:ILE:HG22	1:0U:256:ILE:HG12	1.94	0.49
1:0V:23:ALA:O	1:0V:27:MET:HG2	2.12	0.49
1:0V:154:GLY:O	1:0V:197:HIS:NE2	2.45	0.49
1:0V:218:VAL:HG12	1:0V:255:LYS:HB3	1.95	0.49
1:0Z:6:VAL:HG22	1:1A:27:MET:SD	2.52	0.49
1:1A:63:LEU:HD11	5:1L:596:PRO:HB3	1.94	0.49
1:1A:172:LEU:HD22	1:1A:187:ALA:HA	1.94	0.49
1:1C:76:ALA:O	1:1C:80:VAL:HG23	2.13	0.49
1:1C:240:SER:HB2	1:1C:243:LEU:HG	1.94	0.49
3:1H:197:SER:N	47:6A:290:GLY:HA3	2.28	0.49
3:1H:274:LEU:C	3:1H:276:ARG:H	2.20	0.49
3:1I:274:LEU:C	3:1I:276:ARG:H	2.20	0.49
5:1M:419:GLU:HB2	5:1M:420:PRO:HD3	1.95	0.49
6:1N:1715:TRP:HE1	6:1N:1738:ALA:HA	1.77	0.49
6:1N:2695:THR:HG21	6:1N:2765:PRO:HG3	1.93	0.49
7:1O:2528:HIS:CE1	8:1P:778:PRO:HG2	2.47	0.49
7:1O:2581:SER:HB3	7:1O:3064:LEU:HD11	1.93	0.49
10:1R:81:LEU:O	10:1R:85:LEU:HG	2.12	0.49
10:1S:370:PRO:HA	12:Bg:328:GLU:OE2	2.12	0.49
12:1c:21:TRP:CZ3	12:1c:61:PRO:HB3	2.47	0.49
13:1d:21:TRP:CZ2	13:1d:65:CYS:HB2	2.47	0.49
12:1e:253:LEU:HD13	12:1e:316:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2U:151:PHE:HE1	12:De:332:ASN:HD22	1.60	0.49
13:2f:77:GLU:OE2	12:2g:243:PRO:HB3	2.11	0.49
30:3F:462:ALA:O	30:3F:466:VAL:HG23	2.11	0.49
31:3I:249:LYS:HD3	32:3K:309:GLU:HG2	1.93	0.49
31:3I:363:GLU:O	31:3I:367:ARG:HG2	2.12	0.49
32:3J:80:ILE:HG22	32:3J:125:VAL:HG22	1.94	0.49
32:3K:266:VAL:O	32:3K:270:LEU:HG	2.12	0.49
33:3L:197:LEU:HB2	12:7e:412:GLU:OE1	2.12	0.49
34:3M:489:MET:HE2	34:3M:493:LYS:NZ	2.27	0.49
34:3N:324:HIS:CG	34:3N:407:MET:HE1	2.47	0.49
34:3P:305:CYS:HB3	34:3P:426:LEU:HD22	1.92	0.49
34:3Q:280:TRP:HB2	34:3Q:452:HIS:CE1	2.48	0.49
34:3Q:323:ALA:HB1	34:3Q:407:MET:HG3	1.95	0.49
34:3Q:348:LYS:HZ2	34:3Q:382:LEU:HD22	1.77	0.49
34:3T:264:SER:O	34:3T:268:GLN:HG2	2.12	0.49
34:3T:397:LEU:O	34:3T:401:VAL:HG23	2.12	0.49
34:3U:70:GLU:OE2	34:3U:74:LEU:HG	2.12	0.49
34:3X:38:HIS:CE1	34:3X:452:HIS:HE1	2.30	0.49
34:3Y:107:TYR:HB2	34:3Y:342:GLN:HE22	1.77	0.49
34:3Y:295:GLN:HE22	34:3Y:299:LEU:HD11	1.77	0.49
12:3a:186:THR:HA	12:3a:189:VAL:HG12	1.94	0.49
12:3a:330:MET:SD	12:3a:349:VAL:HG21	2.52	0.49
13:3b:76:ASP:HA	13:3b:79:ARG:HD2	1.95	0.49
12:3e:99:ASN:HA	12:3e:142:GLY:H	1.77	0.49
13:3f:222:PRO:O	12:3g:324:LYS:HB3	2.13	0.49
35:4C:342:PHE:CE1	35:4C:355:ALA:HB2	2.47	0.49
35:4C:790:LEU:HD11	35:4C:815:LEU:HD13	1.94	0.49
36:4D:121:ASN:OD1	36:4D:122:HIS:N	2.45	0.49
37:4E:589:PRO:CB	43:5L:19:ARG:C	2.74	0.49
37:4E:770:ILE:HD11	37:4E:1622:PRO:HG2	1.94	0.49
37:4E:1145:VAL:HG22	37:4E:1155:VAL:HG22	1.94	0.49
37:4F:826:LEU:CD1	38:4N:82:TYR:CE1	2.94	0.49
37:4F:932:LEU:HA	37:4F:960:LEU:O	2.13	0.49
37:4G:826:LEU:HB2	37:4G:864:VAL:HG11	1.94	0.49
37:4G:1335:MET:CA	38:4L:28:VAL:O	2.61	0.49
37:4G:1339:ALA:O	37:4G:1341:ILE:HD11	2.12	0.49
37:4H:508:PRO:HB2	38:4M:70:LYS:CE	2.42	0.49
37:4H:972:PHE:CD2	37:4H:973:HIS:N	2.80	0.49
37:4H:1081:HIS:CB	37:4H:1338:PHE:CE1	2.96	0.49
37:4H:1138:VAL:HG22	37:4H:1139:THR:H	1.78	0.49
38:4I:31:ALA:HA	38:4I:34:ALA:H	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4I:32:GLU:CG	38:4I:33:LYS:NZ	2.75	0.49
38:4L:81:ALA:C	38:4L:82:TYR:HD1	2.19	0.49
38:4M:80:LEU:C	38:4M:82:TYR:N	2.71	0.49
38:4N:77:VAL:HG12	38:4N:78:GLU:N	2.27	0.49
39:4Q:181:SER:O	39:4Q:185:VAL:HG23	2.12	0.49
39:4S:3:GLY:H	43:5K:140:LYS:HZ3	1.59	0.49
40:4U:213:LEU:HD22	40:4U:220:GLY:N	2.27	0.49
40:4V:537:VAL:HG11	40:4V:649:ASP:OD1	2.12	0.49
41:4X:98:GLN:HA	41:4X:116:LEU:HA	1.93	0.49
12:4c:207:LEU:O	12:4c:210:ILE:HG22	2.12	0.49
12:4e:272:PRO:HD3	12:4e:364:SER:HA	1.93	0.49
42:5H:91:TYR:CG	43:5L:48:THR:CB	2.94	0.49
43:5J:143:MET:C	43:5J:145:SER:N	2.70	0.49
43:5K:39:LEU:HD11	43:5K:51:HIS:CD2	2.47	0.49
43:5K:83:HIS:O	43:5K:87:ILE:HG13	2.12	0.49
12:5a:6:HIS:HD2	12:5a:134:GLN:HG3	1.78	0.49
12:5c:20:PHE:HA	12:5c:230:SER:HB2	1.94	0.49
12:5c:267:MET:HG2	12:5c:301:CYS:HB3	1.93	0.49
12:5e:99:ASN:HA	12:5e:142:GLY:H	1.76	0.49
13:5f:324:VAL:HB	13:5f:327:ASP:HB2	1.93	0.49
47:6A:24:ASP:O	47:6A:30:LEU:HD12	2.12	0.49
47:6A:1013:ALA:O	47:6A:1016:LEU:HB2	2.12	0.49
47:6B:402:MET:HG3	3:6D:1011:GLU:CG	2.40	0.49
47:6B:877:SER:HB2	48:6E:61:ARG:H	1.77	0.49
47:6B:1218:VAL:O	47:6B:1222:LEU:HG	2.12	0.49
3:6D:82:GLU:O	3:6D:86:THR:HG23	2.12	0.49
3:6D:281:ARG:HH21	3:6D:283:LEU:HD21	1.77	0.49
48:6E:394:GLU:OE2	48:6E:520:GLN:NE2	2.46	0.49
48:6F:394:GLU:OE2	48:6F:520:GLN:NE2	2.46	0.49
49:6H:299:MET:HE3	49:6H:314:LYS:HB3	1.93	0.49
50:6K:610:ASN:O	50:6K:614:THR:HG23	2.13	0.49
50:6L:150:VAL:HB	50:6L:154:PHE:HZ	1.76	0.49
50:6L:215:LEU:HD21	50:6L:332:MET:SD	2.53	0.49
50:6L:440:ASN:HD22	50:6L:472:PRO:HB2	1.76	0.49
50:6L:517:SER:O	50:6L:521:ILE:HG12	2.11	0.49
50:6L:610:ASN:O	50:6L:614:THR:HG23	2.13	0.49
51:6M:1533:ARG:HH21	51:6M:1985:VAL:N	2.10	0.49
51:6M:2031:ARG:HD2	51:6M:2131:VAL:HB	1.94	0.49
12:6a:172:SER:OG	12:6a:175:VAL:O	2.30	0.49
12:7c:284:LEU:HD23	12:7c:362:LYS:HB3	1.94	0.49
13:7d:321:GLY:HA3	13:7d:372:GLN:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7f:321:GLY:HA3	13:7f:372:GLN:O	2.12	0.49
13:8b:21:TRP:CZ2	13:8b:65:CYS:HB2	2.47	0.49
12:8c:116:VAL:HA	12:8c:119:VAL:HG12	1.94	0.49
13:9b:324:VAL:HB	13:9b:327:ASP:HB2	1.93	0.49
12:9c:159:TYR:HB3	12:9c:162:ARG:HG3	1.95	0.49
12:9g:110:ALA:HA	12:9g:113:ILE:HG22	1.94	0.49
12:9g:177:ASP:OD2	13:9h:248:LEU:HD21	2.12	0.49
12:Ae:396:HIS:CD2	13:Af:263:PRO:HD3	2.47	0.49
13:Ah:251:ASP:H	13:Ah:254:GLU:HB2	1.76	0.49
12:Ba:161:ASP:OD1	12:Ba:161:ASP:N	2.45	0.49
12:Bc:73:MET:HE2	12:Bc:90:PHE:HD2	1.77	0.49
12:Bc:171:PRO:HB3	12:Bc:181:GLU:HG3	1.94	0.49
13:Bd:321:GLY:HA3	13:Bd:372:GLN:O	2.12	0.49
12:Ca:7:ILE:HD13	12:Ca:135:VAL:HG12	1.95	0.49
12:Ca:322:SER:O	12:Ca:326:VAL:HG23	2.11	0.49
13:Cb:210:TYR:CE1	12:Cc:324:LYS:HB2	2.46	0.49
13:Cf:76:ASP:HA	13:Cf:79:ARG:HD2	1.95	0.49
12:Cg:207:LEU:O	12:Cg:210:ILE:HG22	2.13	0.49
12:Dc:176:SER:HB2	12:Dc:181:GLU:OE1	2.12	0.49
12:Dg:210:ILE:O	12:Dg:214:THR:OG1	2.27	0.49
1:0J:270:HIS:O	1:0J:274:VAL:HG23	2.12	0.49
1:0I:196:LYS:HA	1:0I:239:HIS:HE1	1.77	0.49
1:0I:362:GLN:O	1:0I:365:ARG:HG2	2.12	0.49
1:0B:108:ARG:NH2	1:0B:144:ALA:HB1	2.28	0.49
1:0D:386:LEU:HB3	1:0D:396:LEU:HD21	1.93	0.49
1:0N:134:LEU:HD11	1:0N:149:LEU:HD11	1.95	0.49
1:0P:88:LEU:O	1:0P:91:SER:HB3	2.12	0.49
1:0P:301:TYR:O	1:0P:305:SER:CB	2.54	0.49
1:0S:127:LEU:HD11	1:0S:149:LEU:HD21	1.93	0.49
1:0U:59:GLN:NE2	5:1M:597:LYS:HB3	2.26	0.49
1:0Y:45:LEU:O	1:0Y:49:LEU:HD23	2.13	0.49
1:1A:254:PRO:O	1:1A:258:THR:HG23	2.13	0.49
1:1B:160:ALA:O	1:1B:163:VAL:HG22	2.12	0.49
2:1G:97:GLN:OE1	2:1G:97:GLN:N	2.34	0.49
2:1G:289:VAL:O	2:1G:292:VAL:HG12	2.12	0.49
3:1H:114:GLY:HA2	3:1H:117:PHE:HD2	1.77	0.49
3:1H:991:ILE:HD12	3:1H:1010:LEU:HD11	1.91	0.49
4:1J:86:ILE:HB	4:1J:176:THR:CG2	2.43	0.49
6:1N:2411:ARG:HA	6:1N:2414:GLU:CD	2.38	0.49
7:1O:200:CYS:SG	7:1O:222:LEU:HD13	2.53	0.49
7:1O:766:ALA:HB1	7:1O:1024:PRO:HD3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1O:2050:LEU:HD21	7:1O:2099:ALA:HB2	1.94	0.49
7:1O:2274:ALA:HB2	7:1O:2302:LEU:HD11	1.93	0.49
12:1e:6:HIS:HD2	12:1e:134:GLN:HG3	1.76	0.49
12:1g:31:ASP:HB2	12:1g:32:PRO:HD2	1.94	0.49
18:2L:44:UNK:HA	12:5e:320:ARG:NH1	2.28	0.49
24:2T:141:ARG:NH2	13:Dh:215:ARG:HH22	2.10	0.49
24:2T:185:ALA:O	24:2T:189:ILE:HG12	2.12	0.49
24:2U:141:ARG:HH11	13:Dd:216:SER:HA	1.77	0.49
12:2c:235:GLY:HA2	12:2c:238:CYS:SG	2.52	0.49
12:2e:225:LEU:O	12:2e:229:ILE:HG13	2.12	0.49
31:3I:289:ASN:O	31:3I:293:ILE:HG12	2.12	0.49
33:3L:44:PHE:CD2	33:3L:44:PHE:O	2.66	0.49
33:3L:47:LEU:HD12	33:3L:50:LEU:HD21	1.94	0.49
34:3M:49:PHE:HD1	34:3M:288:MET:SD	2.36	0.49
34:3P:68:LEU:O	34:3P:72:PRO:HD2	2.12	0.49
34:3Q:327:VAL:HA	34:3Q:330:GLU:OE1	2.13	0.49
34:3U:68:LEU:O	34:3U:72:PRO:HD2	2.12	0.49
12:3a:98:GLY:HA2	13:3b:254:GLU:CG	2.42	0.49
12:3a:313:ALA:O	12:3a:349:VAL:HA	2.11	0.49
13:3h:422:ARG:HG3	39:4Q:214:LEU:HD21	1.94	0.49
13:3h:434:GLU:OE1	39:4Q:168:HIS:CG	2.64	0.49
35:4C:699:LEU:CD2	35:4C:724:PRO:HD3	2.42	0.49
35:4C:1052:THR:HG22	35:4C:1078:LEU:HD11	1.93	0.49
37:4E:581:LEU:CA	43:5L:32:LEU:O	2.56	0.49
37:4G:1082:LEU:CB	38:4L:39:HIS:H	2.21	0.49
37:4H:1082:LEU:HD21	37:4H:1132:PRO:HG2	1.94	0.49
37:4H:1092:LEU:N	38:4M:32:GLU:O	2.37	0.49
38:4K:31:ALA:HA	38:4K:34:ALA:H	1.78	0.49
38:4K:33:LYS:HA	38:4K:33:LYS:CE	2.32	0.49
38:4L:32:GLU:CG	38:4L:33:LYS:NZ	2.74	0.49
38:4M:32:GLU:CG	38:4M:33:LYS:NZ	2.74	0.49
38:4N:57:VAL:HG13	38:4N:58:VAL:N	2.28	0.49
38:4O:22:GLU:O	38:4O:25:PRO:HD2	2.13	0.49
40:4T:157:SER:O	40:4T:160:THR:OG1	2.29	0.49
41:4X:32:ILE:O	41:4X:81:TYR:HA	2.12	0.49
13:4b:21:TRP:CZ2	13:4b:65:CYS:HB2	2.47	0.49
12:4c:48:ASN:O	12:4c:62:ARG:NH2	2.43	0.49
12:4c:116:VAL:O	12:4c:120:VAL:HG23	2.11	0.49
42:5E:131:ARG:HA	42:5E:135:ARG:HD2	1.94	0.49
42:5H:132:GLY:HA2	43:5L:50:ILE:HD13	1.93	0.49
43:5I:83:HIS:O	43:5I:87:ILE:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5J:32:LEU:HG	43:5J:36:TYR:CE2	2.47	0.49
43:5J:39:LEU:HD11	43:5J:51:HIS:CD2	2.47	0.49
43:5J:112:PRO:HB3	44:5T:115:ASN:HB3	1.93	0.49
44:5S:93:PHE:CZ	44:5S:145:PHE:CE2	3.01	0.49
13:5b:76:ASP:HA	13:5b:79:ARG:HD2	1.94	0.49
12:5c:341:PHE:HB3	12:5c:348:ASN:ND2	2.27	0.49
13:5f:76:ASP:HA	13:5f:79:ARG:HD2	1.95	0.49
13:5f:403:ALA:HB2	12:5g:344:TRP:HZ3	1.75	0.49
47:6A:475:GLN:O	47:6A:479:LEU:HG	2.12	0.49
47:6A:1218:VAL:O	47:6A:1222:LEU:HG	2.12	0.49
47:6A:1287:GLN:NE2	51:6M:2474:GLN:HE22	2.09	0.49
47:6B:1013:ALA:O	47:6B:1016:LEU:HB2	2.12	0.49
3:6D:1006:ASP:HB3	3:6D:1007:ARG:HG3	1.95	0.49
3:6D:1059:GLU:HA	3:6D:1062:THR:HG22	1.94	0.49
48:6E:675:PHE:HA	48:6E:820:LEU:HG	1.93	0.49
48:6F:810:LEU:CG	49:6H:3:VAL:HG11	2.43	0.49
49:6J:117:ILE:HG23	49:6J:136:MET:CE	2.42	0.49
50:6K:215:LEU:HD21	50:6K:332:MET:SD	2.53	0.49
50:6L:154:PHE:HB2	50:6L:158:GLN:OE1	2.11	0.49
51:6M:2152:SER:HB2	51:6M:2256:CYS:HB2	1.93	0.49
51:6M:2293:ALA:O	51:6M:2294:ASP:O	2.30	0.49
51:6N:2136:LEU:HA	51:6N:2289:VAL:O	2.12	0.49
13:6b:251:ASP:H	13:6b:254:GLU:HB2	1.76	0.49
12:6e:172:SER:OG	12:6e:175:VAL:O	2.30	0.49
12:7a:216:LYS:C	12:7a:276:ARG:HH12	2.21	0.49
13:7b:251:ASP:H	13:7b:254:GLU:HB2	1.76	0.49
12:7c:39:ASP:N	12:7c:39:ASP:OD1	2.45	0.49
13:7f:406:HIS:CD2	12:7g:261:PRO:HD3	2.47	0.49
12:7g:207:LEU:HB3	12:7g:225:LEU:HD22	1.94	0.49
13:7h:76:ASP:HA	13:7h:79:ARG:HD2	1.95	0.49
12:8g:341:PHE:HB3	12:8g:348:ASN:ND2	2.28	0.49
13:8h:251:ASP:H	13:8h:254:GLU:HB2	1.76	0.49
12:9a:174:LYS:NZ	13:9b:333:ALA:HA	2.27	0.49
13:9d:324:VAL:HB	13:9d:327:ASP:HB2	1.93	0.49
12:9g:68:LEU:HD23	12:9g:143:THR:HG22	1.93	0.49
13:9h:212:ILE:O	13:9h:216:SER:OG	2.25	0.49
12:Ac:66:MET:HA	12:Ac:91:VAL:HG23	1.94	0.49
13:Ad:76:ASP:HA	13:Ad:79:ARG:HD2	1.94	0.49
13:Ad:128:ASN:ND2	13:Bd:285:GLN:HG3	2.25	0.49
13:Af:251:ASP:H	13:Af:254:GLU:HB2	1.76	0.49
13:Bd:21:TRP:CZ2	13:Bd:65:CYS:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Be:58:ARG:NH2	12:Ce:281:TYR:CZ	2.78	0.49
12:Bg:73:MET:HE2	12:Bg:90:PHE:HD2	1.77	0.49
12:Cc:207:LEU:O	12:Cc:210:ILE:HG22	2.13	0.49
12:Ce:235:GLY:HA3	12:Ce:366:THR:HG21	1.94	0.49
12:Cg:116:VAL:O	12:Cg:120:VAL:HG23	2.12	0.49
13:Ch:76:ASP:HA	13:Ch:79:ARG:HD2	1.95	0.49
12:Dg:134:GLN:HA	12:Dg:165:LEU:O	2.12	0.49
12:Dg:207:LEU:O	12:Dg:210:ILE:HG22	2.13	0.49
13:Dh:76:ASP:HA	13:Dh:79:ARG:HD2	1.94	0.49
1:0W:354:SER:HB3	1:0W:399:LYS:HG3	1.94	0.49
1:0I:67:ARG:HA	1:0I:70:ASN:ND2	2.27	0.49
1:0A:7:LEU:CD2	47:6B:137:HIS:HD2	2.23	0.49
1:0A:51:LEU:HD21	1:0A:87:GLN:NE2	2.27	0.49
1:0C:28:ALA:HB1	1:0C:67:ARG:HB2	1.93	0.49
1:0E:90:TYR:CE2	1:0E:94:GLU:OE2	2.65	0.49
1:0E:252:ILE:HG22	1:0E:256:ILE:HG12	1.93	0.49
1:0E:350:ASP:CA	1:0E:353:LYS:HG3	2.37	0.49
1:0G:72:SER:HB3	1:0G:75:LEU:HG	1.94	0.49
1:0L:353:LYS:HD3	1:0L:386:LEU:HD22	1.95	0.49
1:0M:219:ILE:HG12	1:0M:255:LYS:HG2	1.95	0.49
1:0O:118:ALA:HB1	1:0O:152:ILE:HG12	1.95	0.49
1:0O:196:LYS:HA	1:0O:239:HIS:HE1	1.77	0.49
1:0Q:108:ARG:HD3	1:0Q:147:TRP:HB3	1.92	0.49
1:0Q:210:ALA:O	1:0Q:214:LEU:HG	2.12	0.49
1:0S:273:THR:O	1:0S:277:GLU:HG2	2.11	0.49
1:0S:412:THR:OG1	1:0S:413:HIS:N	2.46	0.49
1:0X:233:LEU:HD13	1:0X:252:ILE:HG21	1.93	0.49
1:0X:265:GLU:HA	1:0X:268:LYS:HE2	1.94	0.49
1:1A:61:ALA:O	1:1A:65:LEU:HD23	2.13	0.49
1:1C:169:VAL:HG13	1:1C:191:LEU:HD21	1.95	0.49
2:1D:153:GLN:O	2:1D:156:VAL:HG22	2.13	0.49
2:1D:367:VAL:HG21	2:1D:386:LEU:CD2	2.38	0.49
2:1E:121:ALA:HB2	2:1E:161:VAL:HG22	1.93	0.49
3:1H:925:ASN:ND2	4:1J:218:ARG:HH22	2.09	0.49
3:1I:114:GLY:HA2	3:1I:117:PHE:HD2	1.77	0.49
4:1K:86:ILE:HB	4:1K:176:THR:CG2	2.43	0.49
6:1N:320:GLU:OE1	6:1N:320:GLU:N	2.41	0.49
6:1N:1267:ALA:O	6:1N:1271:LEU:HG	2.11	0.49
6:1N:1820:MET:HE2	8:1P:694:MET:SD	2.52	0.49
7:1O:2062:PRO:HA	7:1O:2109:CYS:SG	2.52	0.49
10:1R:234:ARG:NH1	31:3H:140:MET:SD	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1a:176:SER:OG	12:1a:181:GLU:OE1	2.19	0.49
12:1e:248:ALA:HA	12:1e:252:LYS:HD2	1.94	0.49
14:2F:34:GLU:HG2	14:2F:35:GLY:N	2.27	0.49
12:2g:55:THR:HG22	12:3g:284:LEU:H	1.77	0.49
12:2g:87:PRO:HG2	12:3g:278:SER:HB3	1.94	0.49
12:2g:116:VAL:O	12:2g:120:VAL:HG23	2.13	0.49
12:2g:134:GLN:HA	12:2g:165:LEU:O	2.11	0.49
28:3C:554:ARG:HD2	12:3g:402:GLY:O	2.13	0.49
30:3F:311:ILE:CG1	13:6f:155:GLU:OE2	2.55	0.49
30:3F:386:MET:CG	13:8f:339:ARG:HH12	2.14	0.49
31:3H:116:VAL:HG21	31:3H:207:LEU:CD1	2.42	0.49
32:3K:118:TYR:CE1	32:3K:139:TYR:HB3	2.47	0.49
32:3K:125:VAL:CG1	32:3K:132:LEU:HB3	2.42	0.49
34:3O:252:GLU:O	34:3O:256:GLU:HG2	2.13	0.49
34:3Q:125:ARG:HD2	34:3Q:361:LEU:CD1	2.33	0.49
34:3R:269:GLY:O	34:3R:273:ARG:HG3	2.12	0.49
34:3S:75:GLN:HA	34:3S:415:TYR:HE2	1.76	0.49
34:3U:97:LEU:HD22	34:3U:394:GLU:CD	2.36	0.49
34:3W:498:LEU:O	34:3W:502:VAL:HG23	2.13	0.49
34:3Y:263:LYS:HG2	34:3Y:266:HIS:NE2	2.27	0.49
34:3Z:38:HIS:CE1	34:3Z:452:HIS:HE1	2.30	0.49
13:3d:399:TYR:CD2	39:4S:217:LEU:C	2.91	0.49
13:3h:263:PRO:HB3	39:4Q:175:GLN:HB2	1.93	0.49
34:4A:452:HIS:CE1	34:4A:456:LEU:HD11	2.47	0.49
34:4B:280:TRP:HB2	34:4B:452:HIS:CD2	2.47	0.49
34:4B:338:LEU:CD2	34:4B:393:ALA:HB2	2.41	0.49
35:4C:336:HIS:O	35:4C:359:LEU:HD12	2.12	0.49
36:4D:91:VAL:HG21	36:4D:101:ILE:HD11	1.93	0.49
37:4E:575:SER:O	37:4E:577:LEU:C	2.55	0.49
37:4E:856:MET:HB2	37:4E:861:ALA:HB2	1.94	0.49
37:4E:1108:PHE:CD2	43:5L:137:ARG:O	2.66	0.49
37:4F:540:VAL:HG22	38:4N:69:CYS:HG	1.73	0.49
37:4F:1074:GLN:CB	38:4N:41:LYS:HG2	2.41	0.49
37:4F:1352:PRO:HD2	37:4F:1356:VAL:O	2.12	0.49
37:4G:826:LEU:HB3	38:4L:82:TYR:HE1	1.77	0.49
37:4G:1441:LEU:HD12	37:4G:1462:SER:HB2	1.95	0.49
37:4H:671:LEU:CD1	38:4J:39:HIS:HB3	2.35	0.49
37:4H:1162:VAL:HB	37:4H:1299:ARG:NH1	2.27	0.49
37:4H:1333:VAL:HG12	38:4M:24:THR:O	2.13	0.49
38:4K:80:LEU:C	38:4K:82:TYR:N	2.71	0.49
38:4N:25:PRO:HA	38:4N:28:VAL:HG23	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4N:80:LEU:O	38:4N:84:LEU:HD12	2.11	0.49
39:4R:181:SER:O	39:4R:185:VAL:HG23	2.12	0.49
40:4T:213:LEU:HD22	40:4T:220:GLY:N	2.27	0.49
40:4T:537:VAL:HG11	40:4T:649:ASP:OD1	2.12	0.49
40:4V:43:TRP:H	40:4V:43:TRP:CD1	2.31	0.49
12:4e:172:SER:HB2	12:4e:205:GLU:CG	2.43	0.49
41:5B:161:PHE:HA	41:5B:165:SER:O	2.13	0.49
42:5F:148:GLN:HG3	43:5J:144:TYR:HE1	1.77	0.49
42:5H:139:LEU:CG	43:5L:145:SER:CB	2.91	0.49
43:5I:133:ASP:HB2	43:5I:137:ARG:HH11	1.77	0.49
43:5L:9:ASP:O	43:5L:10:LEU:HB2	2.13	0.49
44:5R:103:PHE:HB3	44:5R:139:GLN:HB3	1.94	0.49
12:5c:83:GLN:O	12:6c:281:TYR:OH	2.16	0.49
12:5g:130:LEU:HB3	12:5g:162:ARG:HD3	1.95	0.49
12:5g:337:ASN:HB3	12:5g:340:TYR:HD2	1.75	0.49
13:5h:76:ASP:HA	13:5h:79:ARG:HD2	1.95	0.49
47:6A:139:THR:O	47:6A:142:GLU:HG2	2.12	0.49
3:6D:80:LEU:HD23	3:6D:83:LEU:HD12	1.93	0.49
48:6F:722:ARG:HH12	49:6H:21:ASN:HD22	1.59	0.49
49:6G:316:THR:HG23	49:6G:319:GLN:H	1.77	0.49
49:6H:196:ASN:ND2	49:6H:254:GLY:O	2.46	0.49
49:6H:316:THR:HG23	49:6H:319:GLN:H	1.77	0.49
49:6J:80:PRO:HB3	49:6J:419:GLU:HA	1.93	0.49
51:6M:1240:LYS:HB3	51:6M:1345:VAL:HG22	1.94	0.49
51:6N:1240:LYS:HB3	51:6N:1345:VAL:HG22	1.94	0.49
51:6N:1362:ARG:HH22	51:6N:1406:ARG:HD3	1.77	0.49
51:6N:1406:ARG:HE	51:6N:1408:ASP:HB3	1.77	0.49
51:6N:1923:ARG:NH1	51:6N:1925:PRO:HA	2.26	0.49
12:6g:311:LEU:HD23	12:6g:342:VAL:HG21	1.94	0.49
13:7h:321:GLY:HA3	13:7h:372:GLN:O	2.12	0.49
12:8c:140:GLY:HA2	12:8c:184:ASN:HB2	1.94	0.49
12:8e:185:ALA:O	12:8e:189:VAL:HG13	2.12	0.49
12:8g:48:ASN:O	12:8g:62:ARG:NH2	2.42	0.49
12:9c:341:PHE:HB3	12:9c:348:ASN:ND2	2.28	0.49
13:9d:76:ASP:HA	13:9d:79:ARG:HD2	1.95	0.49
12:9e:272:PRO:HD3	12:9e:364:SER:HA	1.95	0.49
13:9h:76:ASP:HA	13:9h:79:ARG:HD2	1.95	0.49
13:Ab:76:ASP:HA	13:Ab:79:ARG:HD2	1.95	0.49
13:Ab:321:GLY:HA3	13:Ab:372:GLN:O	2.12	0.49
13:Bb:321:GLY:HA3	13:Bb:372:GLN:O	2.12	0.49
12:Be:161:ASP:OD1	12:Be:161:ASP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ca:6:HIS:HD2	12:Ca:134:GLN:HG3	1.77	0.49
12:Cg:102:ALA:HB1	12:Cg:401:GLU:HB2	1.94	0.49
12:De:180:VAL:HG22	12:De:183:TYR:HB2	1.94	0.49
1:0W:134:LEU:HB2	1:0W:171:LEU:HD13	1.93	0.49
1:0W:349:GLU:HB2	1:0W:352:LEU:HB3	1.94	0.49
1:0I:127:LEU:HD23	1:0I:166:ALA:HB2	1.95	0.49
44:5P:103:PHE:HB3	44:5P:139:GLN:HB3	1.94	0.49
1:0A:185:ARG:HB3	1:0A:225:LEU:HD12	1.95	0.49
1:0A:374:VAL:O	1:0A:377:THR:OG1	2.24	0.49
1:0B:355:ALA:O	1:0B:359:THR:HG23	2.13	0.49
1:0C:33:ASN:O	1:0C:37:LEU:HG	2.12	0.49
1:0D:108:ARG:NH2	1:0D:144:ALA:HB1	2.27	0.49
1:0D:254:PRO:O	1:0D:258:THR:HG23	2.13	0.49
1:0F:17:ARG:O	1:0F:21:VAL:HG22	2.13	0.49
1:0G:210:ALA:O	1:0G:214:LEU:HG	2.11	0.49
1:0L:164:VAL:O	1:0L:167:GLY:HA2	2.13	0.49
1:0L:359:THR:HA	1:0L:362:GLN:OE1	2.12	0.49
1:0L:414:LEU:HD11	1:0L:439:LYS:HA	1.94	0.49
1:0M:45:LEU:C	1:0M:48:PRO:HD2	2.38	0.49
1:0M:367:THR:CB	1:0M:370:HIS:HD2	2.25	0.49
1:0N:320:ILE:HG22	1:0N:327:LEU:HB3	1.95	0.49
1:0O:175:CYS:HB2	1:0O:187:ALA:HB2	1.94	0.49
1:0O:367:THR:HB	1:0O:370:HIS:HD2	1.73	0.49
1:0O:445:ALA:H	3:6D:1039:GLN:HB3	1.78	0.49
1:0R:311:LEU:HG	47:6B:270:VAL:CG2	2.42	0.49
1:0T:286:ALA:HB1	1:0T:320:ILE:HG23	1.95	0.49
1:0V:45:LEU:HD12	1:0W:10:PHE:CE1	2.47	0.49
1:0X:147:TRP:HE1	1:0X:186:ILE:HD12	1.78	0.49
1:0Y:65:LEU:HD21	1:0Y:84:ILE:CG2	2.35	0.49
1:1A:23:ALA:O	1:1A:27:MET:HG3	2.13	0.49
2:1D:124:ASN:C	2:1D:168:ASN:HD21	2.20	0.49
2:1E:25:PHE:HE1	2:1G:56:LEU:HA	1.76	0.49
2:1E:124:ASN:C	2:1E:168:ASN:HD21	2.20	0.49
3:1H:616:TYR:HH	3:1H:629:TRP:CD1	2.30	0.49
3:1H:933:THR:CA	47:6A:371:MET:HE1	2.42	0.49
5:1L:517:ARG:NH1	13:1b:414:GLU:HG2	2.26	0.49
5:1M:450:PRO:HA	5:1M:464:MET:HA	1.95	0.49
6:1N:1412:TYR:HB2	6:1N:1430:THR:OG1	2.13	0.49
8:1P:908:LYS:O	8:1P:909:ILE:HD13	2.13	0.49
10:1R:445:TRP:CZ3	12:Ba:227:HIS:CD2	3.00	0.49
10:1R:445:TRP:HZ3	12:Ba:227:HIS:O	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1S:365:VAL:HB	12:Bg:336:LYS:HB3	1.95	0.49
13:1b:224:TYR:CD2	12:1c:245:GLN:HG2	2.47	0.49
19:2M:10:UNK:CB	13:5b:22:GLU:HG3	2.43	0.49
22:2P:94:UNK:HA	13:6d:220:GLU:HG3	1.93	0.49
24:2U:129:SER:HB3	24:2U:151:PHE:CD1	2.47	0.49
29:3E:1178:GLU:OE2	13:5d:414:GLU:OE2	2.31	0.49
30:3F:342:ARG:CD	12:7g:262:ARG:HH11	2.26	0.49
32:3J:61:VAL:HG22	32:3J:112:CYS:SG	2.52	0.49
33:3L:89:PHE:HB3	33:3L:92:LEU:HB2	1.95	0.49
34:3O:453:ARG:HA	34:3O:456:LEU:HD21	1.93	0.49
34:3Q:485:TYR:HD1	34:3T:248:PHE:CD2	2.30	0.49
34:3S:46:ARG:NE	34:3S:449:GLU:OE2	2.42	0.49
34:3T:82:ILE:HG12	34:3T:320:LEU:HD21	1.95	0.49
34:3T:255:HIS:O	34:3T:259:MET:HG2	2.12	0.49
34:3U:399:ALA:C	34:3U:402:PRO:HD2	2.37	0.49
34:3W:106:ASP:O	34:3W:110:LEU:HG	2.13	0.49
13:3b:21:TRP:CZ2	13:3b:65:CYS:HB2	2.47	0.49
12:3c:341:PHE:HB3	12:3c:348:ASN:ND2	2.27	0.49
13:3f:21:TRP:CZ2	13:3f:65:CYS:HB2	2.47	0.49
12:3g:27:GLU:OE2	12:3g:318:ARG:NH2	2.37	0.49
34:4A:104:ARG:HH12	34:4A:387:VAL:HG13	1.77	0.49
35:4C:812:HIS:HD1	35:4C:850:SER:HG	1.60	0.49
35:4C:928:TRP:CZ3	35:4C:1063:LEU:HG	2.48	0.49
36:4D:33:ARG:NH2	36:4D:144:ARG:HD2	2.27	0.49
36:4D:170:HIS:O	36:4D:243:ARG:HG3	2.12	0.49
37:4E:578:ASP:OD1	43:5L:43:GLN:CD	2.55	0.49
37:4E:740:LEU:HD23	37:4E:1797:VAL:HG21	1.95	0.49
37:4E:1302:ASN:CB	43:5L:121:PHE:HE2	2.24	0.49
37:4F:1082:LEU:CD1	38:4N:39:HIS:CB	2.89	0.49
37:4G:623:ARG:NH1	37:4G:688:LEU:HD11	2.28	0.49
37:4G:827:PRO:HB2	37:4G:854:TYR:CD2	2.47	0.49
37:4G:1084:ARG:HE	37:4G:1092:LEU:HD21	1.77	0.49
37:4G:1341:ILE:HD11	38:4L:31:ALA:N	2.25	0.49
38:4L:57:VAL:HG13	38:4L:58:VAL:N	2.28	0.49
38:4O:52:TYR:CZ	38:4P:72:ARG:HD2	2.47	0.49
41:4Z:98:GLN:HA	41:4Z:116:LEU:HA	1.93	0.49
12:4a:60:VAL:HG11	12:4a:86:ARG:CZ	2.41	0.49
12:4a:275:SER:OG	12:4a:278:SER:HB3	2.12	0.49
13:4d:76:ASP:HA	13:4d:79:ARG:HD2	1.95	0.49
12:4e:161:ASP:O	12:4e:251:ARG:NH2	2.45	0.49
13:4f:76:ASP:HA	13:4f:79:ARG:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5F:139:LEU:CD2	43:5J:141:LEU:HD21	2.29	0.49
42:5H:85:CYS:SG	42:5H:140:TYR:HB3	2.53	0.49
42:5H:140:TYR:O	42:5H:144:PHE:CD2	2.66	0.49
43:5I:143:MET:C	43:5I:145:SER:N	2.70	0.49
43:5K:71:LYS:HA	43:5K:118:LEU:HD21	1.94	0.49
43:5L:17:SER:O	43:5L:18:ILE:CG1	2.59	0.49
43:5L:83:HIS:O	43:5L:87:ILE:HG13	2.12	0.49
12:5a:102:ALA:HB1	12:5a:401:GLU:OE1	2.13	0.49
12:5g:207:LEU:HB3	12:5g:225:LEU:HD22	1.95	0.49
47:6A:1338:LEU:HD22	47:6A:1380:LEU:HD21	1.94	0.49
47:6A:1648:ILE:HD11	47:6A:1769:ARG:HE	1.77	0.49
47:6B:1287:GLN:NE2	51:6N:2474:GLN:HE22	2.09	0.49
47:6B:1648:ILE:HD11	47:6B:1769:ARG:HE	1.77	0.49
3:6D:19:LEU:HG	3:6D:42:LEU:CD1	2.42	0.49
48:6F:127:VAL:HG23	48:6F:153:LEU:CD2	2.41	0.49
48:6F:309:LEU:HB3	48:6F:312:VAL:CG1	2.42	0.49
50:6K:81:ASP:O	50:6K:84:VAL:HG22	2.13	0.49
50:6L:81:ASP:O	50:6L:84:VAL:HG22	2.13	0.49
51:6M:1406:ARG:HE	51:6M:1408:ASP:HB3	1.77	0.49
51:6M:2136:LEU:HA	51:6M:2289:VAL:O	2.12	0.49
51:6N:1478:TYR:HD2	51:6N:1494:LEU:HD13	1.77	0.49
13:6d:251:ASP:H	13:6d:254:GLU:HB2	1.76	0.49
12:6e:272:PRO:HD3	12:6e:364:SER:HA	1.95	0.49
12:6e:404:ASP:HB3	12:6e:407:GLU:OE1	2.12	0.49
12:7a:309:ARG:NH2	12:7a:343:GLU:OE1	2.45	0.49
13:7b:321:GLY:HA3	13:7b:372:GLN:O	2.12	0.49
12:8a:208:TYR:HA	12:8a:211:CYS:SG	2.52	0.49
13:8b:407:TRP:CE2	12:8c:255:VAL:HA	2.47	0.49
12:8c:48:ASN:O	12:8c:62:ARG:NH2	2.43	0.49
12:8g:5:VAL:HG23	12:8g:130:LEU:HD11	1.93	0.49
13:8h:76:ASP:HA	13:8h:79:ARG:HD2	1.95	0.49
12:9a:23:VAL:HA	12:9a:26:ASP:OD2	2.12	0.49
13:9b:221:ARG:HB3	12:9c:322:SER:HB2	1.93	0.49
12:Ac:134:GLN:HA	12:Ac:165:LEU:O	2.12	0.49
13:Bd:212:ILE:O	13:Bd:216:SER:OG	2.25	0.49
12:Be:86:ARG:HD2	12:Ce:281:TYR:HB3	1.94	0.49
12:Cc:330:MET:HG3	12:Cc:351:SER:OG	2.13	0.49
12:Cg:55:THR:HG21	12:Dg:284:LEU:HD13	1.94	0.49
12:Dc:134:GLN:HA	12:Dc:165:LEU:O	2.12	0.49
1:0H:104:ALA:HA	1:0H:107:LEU:HD12	1.94	0.49
1:0J:14:GLN:O	1:0J:18:VAL:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0A:354:SER:OG	1:0A:396:LEU:HA	2.13	0.49
1:0B:28:ALA:HB1	1:0B:67:ARG:HB2	1.93	0.49
1:0C:379:CYS:O	1:0C:383:LEU:HG	2.12	0.49
1:0N:90:TYR:O	1:0N:93:SER:OG	2.19	0.49
1:0O:380:LEU:HD11	1:0O:407:VAL:HG11	1.95	0.49
1:0P:14:GLN:HA	1:0P:17:ARG:HE	1.77	0.49
1:0P:353:LYS:HD3	1:0P:386:LEU:HD22	1.94	0.49
1:0Q:311:LEU:HD11	1:0Q:351:HIS:CD2	2.48	0.49
1:0R:108:ARG:CD	1:0R:147:TRP:HB3	2.42	0.49
1:0R:161:GLN:O	1:0R:164:VAL:HG12	2.12	0.49
1:0V:70:ASN:HA	1:0V:113:HIS:HE1	1.77	0.49
1:0X:45:LEU:C	1:0X:48:PRO:HD2	2.38	0.49
1:0X:185:ARG:HB3	1:0X:225:LEU:HD12	1.95	0.49
1:0Z:290:VAL:HG22	1:0Z:295:VAL:HG11	1.94	0.49
1:0Z:335:LYS:HZ2	1:0Z:339:PRO:HD3	1.78	0.49
1:1A:182:SER:O	1:1A:185:ARG:HG2	2.13	0.49
2:1F:139:ARG:CD	10:1S:323:SER:O	2.57	0.49
3:1H:547:SER:OG	3:1H:549:VAL:HG23	2.11	0.49
3:1I:130:ALA:O	3:1I:134:ILE:HG12	2.12	0.49
4:1J:257:GLU:O	4:1J:259:PRO:HD3	2.11	0.49
4:1K:293:LEU:HG	4:1K:321:VAL:CG1	2.43	0.49
5:1L:121:PRO:O	5:1L:177:GLY:HA3	2.12	0.49
5:1L:407:TYR:H	5:1L:423:GLY:HA3	1.78	0.49
5:1M:407:TYR:H	5:1M:423:GLY:HA3	1.78	0.49
6:1N:1033:PHE:HD1	6:1N:1086:LEU:HD11	1.76	0.49
6:1N:1535:ASP:CG	6:1N:1725:ARG:HH12	2.19	0.49
10:1R:264:GLU:OE2	32:3J:120:TYR:HB3	2.13	0.49
10:1R:369:LYS:CE	12:Ac:128:ASP:HA	2.42	0.49
15:2H:175:UNK:O	13:7h:372:GLN:NE2	2.45	0.49
24:2V:132:ARG:HB2	24:2V:152:GLU:HB2	1.93	0.49
24:2V:150:PHE:CD1	24:2V:151:PHE:CE1	3.01	0.49
12:2c:267:MET:HG2	12:2c:301:CYS:HB3	1.93	0.49
30:3F:301:VAL:HG11	13:6f:428:LEU:CD1	2.42	0.49
30:3F:597:GLN:O	30:3F:601:ARG:HG3	2.12	0.49
32:3J:150:ARG:NH2	12:Aa:391:ARG:HD2	2.27	0.49
34:3M:209:THR:HG23	34:3P:295:GLN:HB3	1.93	0.49
34:3O:32:SER:O	34:3O:36:ILE:HG12	2.13	0.49
34:3O:399:ALA:C	34:3O:402:PRO:HD2	2.38	0.49
34:3S:49:PHE:CE2	34:3S:53:ILE:HD11	2.46	0.49
34:3T:114:ALA:HB1	34:3T:375:TYR:HE2	1.77	0.49
34:3V:356:PHE:HZ	34:3V:378:SER:HG	1.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3Z:60:TYR:HE2	34:3Z:430:GLY:HA2	1.78	0.49
12:3g:134:GLN:HA	12:3g:165:LEU:O	2.13	0.49
35:4C:796:LEU:HD12	35:4C:883:GLU:O	2.12	0.49
35:4C:811:ARG:NH2	37:4E:1681:ARG:HA	2.27	0.49
37:4E:584:ALA:O	43:5L:33:LEU:CA	2.58	0.49
37:4F:826:LEU:HB2	37:4F:864:VAL:HG11	1.94	0.49
37:4F:1308:TYR:HB2	37:4F:1312:ASP:HB2	1.94	0.49
37:4F:1335:MET:HB2	37:4F:1336:ASP:C	2.38	0.49
37:4G:856:MET:HA	38:4L:85:LEU:C	2.37	0.49
37:4G:1136:ARG:HG3	38:4L:33:LYS:HZ1	1.78	0.49
37:4G:1323:ILE:HA	37:4G:1333:VAL:HG11	1.95	0.49
37:4H:510:HIS:CE1	38:4M:66:GLN:O	2.57	0.49
37:4H:1322:ARG:NH1	37:4H:1710:GLU:O	2.44	0.49
38:4J:53:LEU:CG	38:4M:72:ARG:NE	2.76	0.49
38:4J:77:VAL:HG12	38:4J:78:GLU:N	2.27	0.49
38:4J:81:ALA:C	38:4J:82:TYR:HD1	2.19	0.49
38:4K:77:VAL:HG12	38:4K:78:GLU:N	2.27	0.49
39:4R:59:THR:O	39:4R:62:THR:OG1	2.31	0.49
39:4S:4:LEU:CA	43:5K:93:MET:HE1	2.41	0.49
40:4U:537:VAL:HG11	40:4U:649:ASP:OD1	2.12	0.49
41:4Y:32:ILE:O	41:4Y:81:TYR:HA	2.12	0.49
13:4b:76:ASP:HA	13:4b:79:ARG:HD2	1.95	0.49
12:4g:39:ASP:N	12:4g:39:ASP:OD1	2.46	0.49
42:5E:52:ASP:OD2	43:5I:140:LYS:NZ	2.42	0.49
42:5H:89:ALA:HB3	42:5H:137:TYR:HH	1.78	0.49
42:5H:137:TYR:H	43:5L:50:ILE:H	0.64	0.49
43:5I:96:SER:OG	43:5I:136:TYR:HE1	1.94	0.49
43:5J:55:TYR:CG	43:5J:76:PHE:HE2	2.30	0.49
43:5L:27:LEU:CD2	43:5L:32:LEU:HD13	2.43	0.49
43:5L:39:LEU:HD11	43:5L:51:HIS:CD2	2.47	0.49
47:6A:1647:GLN:NE2	47:6A:1673:TRP:N	2.61	0.49
47:6B:475:GLN:O	47:6B:479:LEU:HG	2.12	0.49
47:6B:823:ALA:HA	47:6B:907:LEU:HD13	1.94	0.49
47:6B:1374:LEU:O	47:6B:1378:THR:HG23	2.13	0.49
47:6B:1647:GLN:NE2	47:6B:1673:TRP:N	2.61	0.49
48:6E:309:LEU:HB3	48:6E:312:VAL:CG1	2.42	0.49
48:6E:684:ASP:HB3	48:6E:687:LEU:HG	1.94	0.49
48:6F:501:THR:HG21	48:6F:514:LEU:O	2.12	0.49
48:6F:684:ASP:HB3	48:6F:687:LEU:HG	1.94	0.49
49:6I:117:ILE:HG23	49:6I:136:MET:CE	2.42	0.49
49:6I:346:GLU:HB3	49:6I:347:PRO:HD3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:6K:154:PHE:HB2	50:6K:158:GLN:OE1	2.11	0.49
51:6M:1478:TYR:HD2	51:6M:1494:LEU:HD13	1.77	0.49
51:6M:1923:ARG:NH1	51:6M:1925:PRO:HA	2.26	0.49
51:6N:1451:GLN:HA	51:6N:1454:ASP:OD1	2.13	0.49
51:6N:2293:ALA:O	51:6N:2294:ASP:O	2.30	0.49
12:6g:55:THR:HG22	12:7g:284:LEU:H	1.77	0.49
13:6h:236:SER:O	13:6h:243:ARG:NH2	2.46	0.49
12:7a:11:GLN:HA	12:7a:72:THR:HG21	1.94	0.49
12:7a:172:SER:HB2	12:7a:205:GLU:CG	2.43	0.49
13:7b:76:ASP:HA	13:7b:79:ARG:HD2	1.94	0.49
13:7f:76:ASP:HA	13:7f:79:ARG:HD2	1.94	0.49
13:7f:251:ASP:H	13:7f:254:GLU:HB2	1.76	0.49
13:8b:75:VAL:HG13	13:8b:92:LEU:HB3	1.95	0.49
13:9b:212:ILE:O	13:9b:216:SER:OG	2.25	0.49
12:9c:108:GLU:HA	12:9c:111:GLU:OE2	2.12	0.49
12:9c:140:GLY:HA2	12:9c:184:ASN:HB2	1.95	0.49
12:Ae:161:ASP:O	12:Ae:251:ARG:NH2	2.46	0.49
13:Af:76:ASP:HA	13:Af:79:ARG:HD2	1.95	0.49
13:Af:321:GLY:HA3	13:Af:372:GLN:O	2.12	0.49
13:Ah:76:ASP:HA	13:Ah:79:ARG:HD2	1.94	0.49
13:Bd:75:VAL:HG13	13:Bd:92:LEU:HB3	1.95	0.49
13:Bd:268:MET:HB3	13:Bd:378:ILE:HG23	1.95	0.49
12:Be:208:TYR:HA	12:Be:211:CYS:SG	2.52	0.49
12:Bg:207:LEU:O	12:Bg:210:ILE:HG22	2.12	0.49
13:Bh:76:ASP:HA	13:Bh:79:ARG:HD2	1.94	0.49
12:Ca:272:PRO:HD3	12:Ca:364:SER:HA	1.94	0.49
12:Cc:27:GLU:OE2	12:Cc:318:ARG:NH2	2.36	0.49
12:Ce:404:ASP:HB3	12:Ce:407:GLU:OE1	2.13	0.49
12:Da:6:HIS:HD2	12:Da:134:GLN:HG3	1.77	0.49
12:Da:272:PRO:HD3	12:Da:364:SER:HA	1.93	0.49
13:Dd:76:ASP:HA	13:Dd:79:ARG:HD2	1.94	0.49
13:Dd:321:GLY:HA3	13:Dd:372:GLN:O	2.12	0.49
12:De:222:PHE:CZ	13:Df:248:LEU:HG	2.47	0.49
13:Df:76:ASP:HA	13:Df:79:ARG:HD2	1.94	0.49
13:Dh:321:GLY:HA3	13:Dh:372:GLN:O	2.12	0.49
1:0K:320:ILE:HB	1:0K:327:LEU:HD13	1.94	0.49
1:0A:47:ARG:CG	1:0A:84:ILE:HG12	2.41	0.49
1:0A:359:THR:HA	1:0A:362:GLN:OE1	2.13	0.49
1:0B:86:PRO:HA	1:0B:89:VAL:HG22	1.94	0.49
1:0D:23:ALA:O	1:0D:27:MET:HG3	2.13	0.49
1:0E:23:ALA:O	1:0E:27:MET:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0E:70:ASN:HA	1:0E:113:HIS:HE1	1.77	0.49
1:0N:7:LEU:HB2	10:1R:354:VAL:HG11	1.93	0.49
1:0N:190:ALA:O	1:0N:194:ILE:HG13	2.13	0.49
1:0O:45:LEU:C	1:0O:48:PRO:HD2	2.37	0.49
1:0S:224:LYS:O	1:0S:228:GLN:HG2	2.13	0.49
1:0T:290:VAL:HG22	1:0T:295:VAL:HG21	1.94	0.49
1:0V:380:LEU:HD22	1:0V:404:LEU:HD23	1.93	0.49
1:0X:34:ILE:HG23	1:0X:68:LEU:CD2	2.42	0.49
1:0Z:21:VAL:O	1:0Z:24:VAL:HG22	2.12	0.49
1:1A:110:VAL:HG12	1:1A:117:LEU:HB3	1.94	0.49
1:1B:76:ALA:O	1:1B:80:VAL:HG23	2.13	0.49
1:1B:218:VAL:HG22	1:1B:229:VAL:CG1	2.41	0.49
1:1B:280:LYS:HE3	1:1B:319:TYR:CZ	2.47	0.49
2:1D:25:PHE:CE1	2:1F:56:LEU:HA	2.48	0.49
2:1D:121:ALA:HB2	2:1D:161:VAL:HG22	1.93	0.49
3:1I:250:ARG:HD2	3:1I:256:THR:HG21	1.94	0.49
3:1I:851:SER:HB2	3:1I:953:ILE:HG12	1.94	0.49
4:1J:293:LEU:HG	4:1J:321:VAL:CG1	2.43	0.49
5:1L:450:PRO:HA	5:1L:464:MET:HA	1.95	0.49
7:1O:1655:PRO:HD2	44:5V:5:THR:HG21	1.94	0.49
8:1P:789:PRO:O	8:1P:790:THR:O	2.31	0.49
13:1b:21:TRP:CZ2	13:1b:65:CYS:HB2	2.47	0.49
13:1b:321:GLY:HA3	13:1b:372:GLN:O	2.12	0.49
12:1c:140:GLY:HA2	12:1c:184:ASN:HB2	1.95	0.49
12:1e:208:TYR:HA	12:1e:211:CYS:SG	2.53	0.49
13:1f:21:TRP:CZ2	13:1f:65:CYS:HB2	2.47	0.49
14:2F:89:ALA:HA	12:Ca:361:LEU:HD23	1.95	0.49
24:2T:200:ARG:HA	24:2T:203:LEU:HG	1.95	0.49
24:2U:143:SER:HB3	13:Cd:117:LEU:CD2	2.43	0.49
24:2U:201:GLN:HA	24:2U:204:GLU:OE2	2.12	0.49
24:2V:128:VAL:HG23	24:2V:129:SER:H	1.77	0.49
24:2V:133:SER:O	24:2V:133:SER:OG	2.31	0.49
13:2b:175:PRO:O	13:2b:394:LYS:NZ	2.46	0.49
12:2c:140:GLY:HA2	12:2c:184:ASN:HB2	1.95	0.49
12:2e:98:GLY:O	13:2f:257:THR:OG1	2.29	0.49
30:3F:337:PRO:CD	13:7f:402:ARG:HH22	2.24	0.49
30:3F:375:ASP:OD2	30:3F:377:SER:OG	2.29	0.49
31:3H:123:TYR:CZ	31:3H:127:LEU:HD21	2.47	0.49
32:3J:366:LYS:N	12:9a:423:GLN:HE22	1.93	0.49
32:3J:385:PRO:HD2	32:3J:389:LEU:HD21	1.95	0.49
32:3K:96:LYS:HB2	32:3K:99:LEU:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:3K:140:PRO:HD2	32:3K:229:PHE:CE1	2.48	0.49
34:3M:261:ARG:HB3	34:3M:261:ARG:CZ	2.42	0.49
34:3P:312:TRP:O	34:3P:316:GLN:HG2	2.13	0.49
34:3P:399:ALA:C	34:3P:402:PRO:HD2	2.37	0.49
34:3R:263:LYS:HG2	34:3R:266:HIS:NE2	2.27	0.49
34:3S:106:ASP:O	34:3S:110:LEU:HG	2.13	0.49
34:3U:312:TRP:O	34:3U:316:GLN:HG2	2.13	0.49
34:3V:452:HIS:CE1	34:3V:456:LEU:HD11	2.47	0.49
35:4C:293:VAL:HG21	35:4C:384:VAL:HG13	1.93	0.49
35:4C:570:ALA:HB3	43:5L:110:GLN:CD	2.37	0.49
35:4C:571:ASN:N	37:4E:1762:GLU:HB2	2.28	0.49
36:4D:25:VAL:HG22	36:4D:99:GLU:HG2	1.95	0.49
37:4E:585:VAL:HG22	43:5L:37:THR:CA	2.41	0.49
37:4G:859:GLU:HG2	37:4G:860:LEU:N	2.27	0.49
37:4G:1093:VAL:HG11	38:4L:32:GLU:CD	2.38	0.49
37:4G:1162:VAL:H	37:4G:1299:ARG:NH1	2.10	0.49
37:4H:954:SER:HB2	38:4M:47:ALA:C	2.37	0.49
37:4H:1131:THR:HA	38:4M:40:LYS:HD2	1.94	0.49
37:4H:1723:TYR:CE1	37:4H:1736:ARG:HD3	2.48	0.49
38:4O:25:PRO:O	38:4O:28:VAL:HB	2.13	0.49
39:4Q:59:THR:O	39:4Q:62:THR:OG1	2.31	0.49
39:4R:67:TRP:HA	44:5Q:149:MET:CE	2.42	0.49
40:4T:43:TRP:H	40:4T:43:TRP:CD1	2.31	0.49
40:4U:50:LEU:CD1	40:4U:73:LEU:HB3	2.43	0.49
12:4a:139:LEU:HD22	12:4a:188:SER:HB3	1.95	0.49
13:4d:21:TRP:CZ2	13:4d:65:CYS:HB2	2.47	0.49
12:4g:55:THR:HG22	12:5g:283:ALA:HA	1.93	0.49
13:4h:76:ASP:HA	13:4h:79:ARG:HD2	1.95	0.49
42:5E:89:ALA:O	42:5E:137:TYR:OH	2.26	0.49
42:5F:131:ARG:HA	42:5F:135:ARG:HD2	1.94	0.49
42:5H:49:ILE:CB	43:5L:144:TYR:CD1	2.95	0.49
42:5H:91:TYR:HE1	43:5L:49:ALA:HA	1.76	0.49
42:5H:93:GLU:CB	43:5L:45:ASN:HD21	2.26	0.49
43:5K:106:ALA:O	43:5K:116:VAL:N	2.45	0.49
43:5L:71:LYS:HA	43:5L:118:LEU:HD21	1.94	0.49
44:5S:93:PHE:HZ	44:5S:145:PHE:CE2	2.31	0.49
13:5b:100:ALA:HB1	12:5c:255:VAL:CG1	2.41	0.49
12:5c:87:PRO:HD3	12:6c:281:TYR:CD2	2.47	0.49
12:5c:116:VAL:HA	12:5c:119:VAL:HG12	1.95	0.49
12:5c:183:TYR:OH	12:5c:388:MET:HB3	2.12	0.49
12:5c:189:VAL:HG21	12:5c:378:PHE:HE1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5c:207:LEU:O	12:5c:210:ILE:HG22	2.13	0.49
12:5c:337:ASN:HB3	12:5c:340:TYR:HD2	1.75	0.49
12:5e:172:SER:OG	12:5e:175:VAL:O	2.31	0.49
47:6A:26:ALA:O	47:6A:56:MET:HE1	2.12	0.49
47:6A:92:ARG:O	47:6A:95:TYR:HB3	2.11	0.49
47:6A:1207:LEU:HD22	51:6M:2453:LEU:HD23	1.94	0.49
47:6A:1374:LEU:O	47:6A:1378:THR:HG23	2.13	0.49
3:6D:709:LEU:HD11	3:6D:773:LEU:HG	1.94	0.49
49:6G:196:ASN:ND2	49:6G:254:GLY:O	2.46	0.49
49:6I:182:ASN:ND2	49:6I:184:LYS:O	2.46	0.49
49:6I:196:ASN:ND2	49:6I:254:GLY:O	2.46	0.49
50:6K:448:VAL:HG22	50:6K:463:GLY:O	2.13	0.49
51:6M:1362:ARG:HH22	51:6M:1406:ARG:HD3	1.77	0.49
51:6M:1451:GLN:HA	51:6M:1454:ASP:OD1	2.13	0.49
51:6N:1372:TYR:CZ	51:6N:1388:PRO:HB3	2.48	0.49
13:6b:236:SER:O	13:6b:243:ARG:NH2	2.46	0.49
13:6d:236:SER:O	13:6d:243:ARG:NH2	2.46	0.49
13:6f:236:SER:O	13:6f:243:ARG:NH2	2.46	0.49
12:6g:106:TYR:HE2	12:6g:403:MET:HE2	1.76	0.49
12:7c:245:GLN:HB3	12:7c:353:VAL:HG23	1.94	0.49
12:7g:207:LEU:O	12:7g:210:ILE:HG22	2.12	0.49
12:8e:313:ALA:O	12:8e:349:VAL:HA	2.13	0.49
13:8f:76:ASP:HA	13:8f:79:ARG:HD2	1.94	0.49
13:8f:96:LYS:HE3	12:8g:129:CYS:SG	2.53	0.49
12:9e:389:PHE:CZ	12:9e:405:GLU:OE2	2.65	0.49
12:Ac:304:ASP:OD1	12:Ac:307:HIS:ND1	2.44	0.49
13:Ad:75:VAL:HG13	13:Ad:92:LEU:HB3	1.95	0.49
13:Ad:251:ASP:H	13:Ad:254:GLU:HB2	1.76	0.49
13:Ad:321:GLY:HA3	13:Ad:372:GLN:O	2.12	0.49
12:Ae:330:MET:SD	12:Ae:349:VAL:HG11	2.52	0.49
13:Ah:75:VAL:HG13	13:Ah:92:LEU:HB3	1.95	0.49
12:Ba:330:MET:SD	12:Ba:349:VAL:HG11	2.53	0.49
12:Bc:139:LEU:HD12	12:Bc:170:VAL:HG22	1.93	0.49
12:Bg:140:GLY:HA2	12:Bg:184:ASN:HB2	1.95	0.49
13:Bh:75:VAL:HG13	13:Bh:92:LEU:HB3	1.95	0.49
12:Ca:404:ASP:HB3	12:Ca:407:GLU:OE1	2.13	0.49
13:Cf:224:TYR:CD2	12:Cg:245:GLN:HG2	2.48	0.49
13:Df:321:GLY:HA3	13:Df:372:GLN:O	2.12	0.49
1:0H:85:LEU:HD21	1:0H:121:VAL:HA	1.93	0.49
1:0W:110:VAL:HG12	1:0W:117:LEU:HB3	1.95	0.49
1:0W:210:ALA:O	1:0W:214:LEU:HG	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0A:358:TRP:HB2	1:0A:399:LYS:HD2	1.94	0.49
1:0C:394:ASP:N	1:0C:394:ASP:OD2	2.45	0.49
1:0D:21:VAL:HA	1:0D:24:VAL:HG12	1.95	0.49
1:0E:380:LEU:O	1:0E:384:VAL:HG23	2.13	0.49
1:0E:380:LEU:HD22	1:0E:404:LEU:HD23	1.94	0.49
1:0F:355:ALA:O	1:0F:359:THR:HG23	2.13	0.49
1:0M:4:ARG:NH2	13:8f:420:GLU:HB3	2.28	0.49
1:0O:86:PRO:HA	1:0O:89:VAL:HG22	1.95	0.49
1:0R:282:THR:HB	1:0R:285:LEU:HD22	1.95	0.49
1:0R:315:MET:CE	47:6B:274:ILE:HG13	2.38	0.49
1:0S:355:ALA:O	1:0S:359:THR:HG23	2.13	0.49
1:0T:394:ASP:OD1	1:0T:395:ASP:N	2.45	0.49
1:0V:167:GLY:C	1:0V:169:VAL:H	2.16	0.49
1:0X:359:THR:HA	1:0X:362:GLN:OE1	2.13	0.49
1:0Y:108:ARG:NH2	1:0Y:144:ALA:HB1	2.28	0.49
1:0Z:28:ALA:HB1	1:0Z:67:ARG:HB2	1.94	0.49
1:1B:129:SER:O	1:1B:132:THR:HG22	2.13	0.49
2:1E:367:VAL:HG21	2:1E:386:LEU:CD2	2.38	0.49
3:1I:802:VAL:HG13	3:1I:845:ILE:HD13	1.95	0.49
4:1J:207:THR:HA	4:1J:258:PRO:O	2.12	0.49
4:1K:257:GLU:O	4:1K:259:PRO:HD3	2.11	0.49
5:1L:518:LEU:HD22	13:1b:417:GLU:HB3	1.95	0.49
5:1L:559:ALA:HB1	12:1a:392:LYS:HD2	1.95	0.49
6:1N:1358:LEU:HB3	6:1N:1392:LEU:HD21	1.94	0.49
7:1O:2499:ASN:HA	8:1P:800:TYR:HE1	1.76	0.49
7:1O:2852:ARG:HD2	7:1O:3019:ASP:OD2	2.13	0.49
9:1Q:847:ASP:O	9:1Q:849:ASN:N	2.45	0.49
10:1R:278:THR:HB	10:1R:281:THR:HG23	1.93	0.49
12:1a:399:THR:HG23	12:1a:403:MET:O	2.12	0.49
13:1f:321:GLY:HA3	13:1f:372:GLN:O	2.12	0.49
14:2F:167:TRP:CZ3	12:Aa:274:THR:HG21	2.47	0.49
12:2a:208:TYR:HA	12:2a:211:CYS:SG	2.53	0.49
12:2c:73:MET:HE2	12:2c:90:PHE:HD2	1.77	0.49
12:2g:110:ALA:HA	12:2g:113:ILE:HG22	1.94	0.49
12:2g:207:LEU:HB3	12:2g:225:LEU:HD22	1.94	0.49
30:3F:510:ILE:HG12	12:7a:106:TYR:CD2	2.48	0.49
32:3J:348:ARG:NH1	12:9a:417:ASP:HB3	2.26	0.49
32:3K:142:ALA:HB2	32:3K:176:PHE:CD2	2.48	0.49
34:3M:269:GLY:O	34:3M:273:ARG:HG3	2.13	0.49
34:3N:499:ALA:HB3	34:3U:259:MET:HE1	1.95	0.49
34:3Q:330:GLU:OE2	34:3Q:403:ARG:NH1	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3R:352:LEU:HD21	34:3R:378:SER:CB	2.43	0.49
34:3S:209:THR:HG23	34:3U:295:GLN:HB3	1.93	0.49
34:3T:110:LEU:HA	34:3T:113:GLU:OE2	2.13	0.49
34:3W:338:LEU:CD2	34:3W:393:ALA:HB2	2.41	0.49
34:3X:60:TYR:HE2	34:3X:430:GLY:HA2	1.78	0.49
34:3Y:269:GLY:O	34:3Y:273:ARG:HG3	2.13	0.49
12:3a:50:TYR:OH	12:3a:237:THR:HB	2.13	0.49
13:3d:21:TRP:CZ2	13:3d:65:CYS:HB2	2.47	0.49
12:3g:396:HIS:HA	12:3g:399:THR:CG2	2.41	0.49
34:4A:107:TYR:O	34:4A:111:ILE:HG13	2.13	0.49
35:4C:326:ARG:HG2	1:0H:178:GLU:OE1	2.13	0.49
36:4D:56:ILE:O	36:4D:282:VAL:HG12	2.12	0.49
37:4E:934:TRP:CE3	37:4E:959:LEU:HB2	2.48	0.49
37:4E:1469:GLU:HA	37:4E:1472:ARG:HD3	1.95	0.49
37:4E:1761:TYR:HD2	37:4E:1763:PRO:O	1.96	0.49
37:4F:1072:ALA:CB	37:4F:1084:ARG:NE	2.75	0.49
37:4F:1753:GLN:OE1	38:4N:25:PRO:CD	2.56	0.49
37:4G:671:LEU:CD1	38:4I:40:LYS:CA	2.90	0.49
37:4G:933:ARG:HH21	38:4I:71:GLU:CB	2.26	0.49
37:4G:959:LEU:O	37:4G:970:SER:CB	2.61	0.49
37:4G:1093:VAL:HG11	38:4L:32:GLU:CG	2.43	0.49
37:4G:1341:ILE:HG23	37:4G:1350:ILE:CG1	2.43	0.49
37:4H:540:VAL:CG1	38:4M:72:ARG:HH11	2.22	0.49
37:4H:1138:VAL:CG2	38:4M:30:ALA:CB	2.72	0.49
37:4H:1143:LEU:HD23	37:4H:1158:PRO:HD2	1.94	0.49
37:4H:1335:MET:HB2	37:4H:1338:PHE:HB2	1.94	0.49
38:4O:15:PRO:N	38:4O:16:PRO:HD2	2.28	0.49
39:4Q:142:ARG:HA	39:4Q:145:ILE:HG22	1.95	0.49
39:4R:142:ARG:HA	39:4R:145:ILE:HG22	1.95	0.49
40:4U:43:TRP:H	40:4U:43:TRP:CD1	2.30	0.49
40:4U:157:SER:O	40:4U:160:THR:OG1	2.29	0.49
13:4f:21:TRP:CZ2	13:4f:65:CYS:HB2	2.47	0.49
41:5A:141:ASN:CB	43:5L:168:GLU:N	2.75	0.49
42:5E:154:THR:HB	43:5I:153:SER:HB2	1.93	0.49
43:5I:71:LYS:HA	43:5I:118:LEU:HD21	1.94	0.49
43:5K:87:ILE:HG12	43:5K:146:TYR:CB	2.43	0.49
44:5T:93:PHE:CZ	44:5T:145:PHE:CE2	3.01	0.49
12:5a:3:GLU:HB3	12:5a:62:ARG:NH2	2.28	0.49
12:5c:68:LEU:HD21	12:5c:147:MET:SD	2.53	0.49
12:5g:139:LEU:HD12	12:5g:170:VAL:HG22	1.94	0.49
47:6A:1472:LEU:HD12	47:6A:1473:ALA:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:1338:LEU:HD22	47:6B:1380:LEU:HD21	1.94	0.49
48:6E:501:THR:HG21	48:6E:514:LEU:O	2.12	0.49
49:6G:182:ASN:ND2	49:6G:184:LYS:O	2.46	0.49
49:6J:196:ASN:ND2	49:6J:254:GLY:O	2.46	0.49
51:6M:1372:TYR:CZ	51:6M:1388:PRO:HB3	2.48	0.49
51:6M:2052:ASP:HB2	51:6M:2102:VAL:HG12	1.94	0.49
13:6f:251:ASP:H	13:6f:254:GLU:HB2	1.76	0.49
12:6g:39:ASP:N	12:6g:39:ASP:OD1	2.46	0.49
13:7d:76:ASP:HA	13:7d:79:ARG:HD2	1.94	0.49
12:7e:6:HIS:HD2	12:7e:134:GLN:HG3	1.77	0.49
12:7g:39:ASP:N	12:7g:39:ASP:OD1	2.45	0.49
12:8a:225:LEU:O	12:8a:229:ILE:HG12	2.12	0.49
12:8a:396:HIS:HA	12:8a:399:THR:OG1	2.13	0.49
12:8c:284:LEU:HD23	12:8c:362:LYS:HB3	1.95	0.49
13:8d:75:VAL:HG13	13:8d:92:LEU:HB3	1.95	0.49
13:8f:75:VAL:HG13	13:8f:92:LEU:HB3	1.95	0.49
12:9g:140:GLY:HA2	12:9g:184:ASN:HB2	1.95	0.49
12:Aa:86:ARG:CZ	12:Ba:281:TYR:CE1	2.96	0.49
12:Aa:272:PRO:HD3	12:Aa:364:SER:HA	1.94	0.49
12:Aa:313:ALA:O	12:Aa:349:VAL:HA	2.12	0.49
13:Ab:251:ASP:H	13:Ab:254:GLU:HB2	1.76	0.49
13:Bb:75:VAL:HG13	13:Bb:92:LEU:HB3	1.95	0.49
12:Be:83:GLN:C	12:Ce:281:TYR:HH	2.18	0.49
12:Be:272:PRO:HD3	12:Be:364:SER:HA	1.93	0.49
13:Bf:75:VAL:HG13	13:Bf:92:LEU:HB3	1.95	0.49
13:Bf:212:ILE:O	13:Bf:216:SER:OG	2.25	0.49
13:Bh:268:MET:HB3	13:Bh:378:ILE:HG23	1.95	0.49
13:Cb:77:GLU:OE2	12:Cc:243:PRO:HB3	2.13	0.49
12:Cc:140:GLY:HA2	12:Cc:184:ASN:HB2	1.95	0.49
12:Cc:244:GLY:HA2	12:Cc:354:CYS:HA	1.95	0.49
12:Da:102:ALA:HB1	12:Da:401:GLU:OE1	2.13	0.49
13:Df:178:SER:OG	12:Dg:347:ASN:ND2	2.46	0.49
1:0H:14:GLN:HA	1:0H:17:ARG:HE	1.76	0.49
1:0W:355:ALA:O	1:0W:359:THR:HG23	2.13	0.49
1:0I:76:ALA:O	1:0I:80:VAL:HG23	2.13	0.49
1:0I:311:LEU:HD11	1:0I:351:HIS:CD2	2.48	0.49
1:0A:122:ILE:HG12	1:0A:127:LEU:HD21	1.93	0.49
1:0A:411:LEU:HD23	1:0A:417:LEU:HG	1.94	0.49
1:0E:45:LEU:C	1:0E:48:PRO:HD2	2.37	0.49
1:0F:105:PHE:O	1:0F:108:ARG:HG2	2.13	0.49
1:0F:205:VAL:HG13	1:0F:210:ALA:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0G:33:ASN:O	1:0G:37:LEU:HG	2.12	0.49
1:0L:285:LEU:O	1:0L:289:VAL:HG23	2.13	0.49
1:0O:223:ALA:HB2	1:0O:262:PHE:CZ	2.47	0.49
1:0Q:94:GLU:HA	1:0Q:100:LYS:HD3	1.95	0.49
1:0Q:311:LEU:HD11	1:0Q:351:HIS:NE2	2.28	0.49
1:0R:265:GLU:HA	1:0R:268:LYS:HE2	1.93	0.49
1:0S:344:LEU:HD11	1:0S:356:THR:OG1	2.12	0.49
1:0V:98:PHE:HD1	12:2c:406:MET:HB3	1.78	0.49
1:0V:257:LEU:HD21	1:0V:294:GLY:HA2	1.94	0.49
1:0X:34:ILE:HD13	1:0X:71:TYR:HB2	1.94	0.49
1:0X:411:LEU:HD23	1:0X:417:LEU:HG	1.94	0.49
1:0Z:88:LEU:O	1:0Z:91:SER:HB2	2.13	0.49
1:1A:108:ARG:NH2	1:1A:144:ALA:HB1	2.27	0.49
1:1B:203:GLN:OE1	1:1B:243:LEU:HD21	2.12	0.49
2:1G:373:ARG:HD2	2:1G:374:GLY:CA	2.43	0.49
3:1I:545:SER:N	3:1I:550:PHE:HE2	2.11	0.49
4:1K:204:SER:HA	4:1K:285:ALA:HB3	1.94	0.49
4:1K:207:THR:HA	4:1K:258:PRO:O	2.12	0.49
6:1N:2729:VAL:HA	6:1N:2732:LEU:HD12	1.94	0.49
7:1O:339:THR:OG1	7:1O:454:GLU:OE2	2.20	0.49
10:1S:375:GLU:OE2	13:Af:90:GLU:HG2	2.12	0.49
10:1S:395:VAL:HG21	13:Bf:338:LYS:CG	2.38	0.49
12:1a:23:VAL:O	12:1a:26:ASP:OD1	2.31	0.49
13:1d:321:GLY:HA3	13:1d:372:GLN:O	2.12	0.49
53:1e:501:GDP:H2'	13:1f:248:LEU:HD21	1.95	0.49
13:1f:75:VAL:HG13	13:1f:92:LEU:HB3	1.95	0.49
14:2F:44:LYS:HE2	13:Db:2:ARG:CZ	2.43	0.49
15:2H:161:UNK:HA	12:7g:70:PRO:HB2	1.93	0.49
21:2O:16:UNK:N	12:6c:360:GLY:O	2.46	0.49
24:2T:180:ARG:HH21	13:Ch:162:GLY:HA3	1.77	0.49
24:2V:151:PHE:HB2	12:Dg:331:LEU:CD2	2.43	0.49
12:2a:309:ARG:NH2	12:2a:343:GLU:OE1	2.46	0.49
12:2g:139:LEU:HD12	12:2g:170:VAL:HG22	1.95	0.49
30:3F:349:LEU:HD13	12:7g:156:ARG:HG3	1.93	0.49
30:3F:382:TRP:CD2	13:8f:342:GLN:OE1	2.66	0.49
31:3I:115:GLU:HG2	31:3I:119:HIS:CD2	2.48	0.49
31:3I:147:LEU:HD11	31:3I:171:TRP:HB3	1.94	0.49
32:3J:120:TYR:CD1	32:3J:137:HIS:CD2	3.01	0.49
32:3K:96:LYS:HB2	32:3K:99:LEU:CD1	2.43	0.49
34:3M:99:ARG:O	34:3M:103:LEU:HG	2.12	0.49
34:3Q:471:ARG:HG3	34:3T:496:TYR:HE2	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3S:64:HIS:CE1	34:3S:68:LEU:HD21	2.47	0.49
34:3T:90:GLU:HA	34:3T:93:VAL:HG22	1.94	0.49
34:3V:273:ARG:NH1	34:3X:507:VAL:HB	2.28	0.49
12:3a:3:GLU:HB3	12:3a:62:ARG:NH2	2.28	0.49
12:3a:284:LEU:HD23	12:3a:362:LYS:HB2	1.95	0.49
12:3a:322:SER:HB3	12:3a:324:LYS:HG2	1.95	0.49
13:3b:236:SER:O	13:3b:243:ARG:NH2	2.46	0.49
12:3c:235:GLY:HA2	12:3c:238:CYS:SG	2.52	0.49
13:3h:21:TRP:CZ2	13:3h:65:CYS:HB2	2.47	0.49
13:3h:264:ARG:HG2	39:4Q:172:THR:OG1	2.13	0.49
35:4C:905:VAL:CG1	35:4C:1115:VAL:HG12	2.42	0.49
37:4E:559:MET:HE1	42:5H:106:VAL:O	2.13	0.49
37:4E:583:GLU:O	37:4E:584:ALA:O	2.30	0.49
37:4E:879:CYS:SG	37:4E:880:ILE:N	2.86	0.49
37:4F:880:ILE:HB	37:4F:926:SER:HG	1.78	0.49
37:4G:669:GLU:HB3	38:4I:40:LYS:HD3	1.94	0.49
37:4G:1075:VAL:H	38:4L:38:VAL:HG22	1.78	0.49
37:4G:1136:ARG:CZ	38:4L:29:LYS:HE2	2.43	0.49
37:4G:1305:VAL:HA	37:4G:1315:VAL:HG12	1.94	0.49
37:4G:1379:ALA:HA	37:4G:1384:ALA:HA	1.94	0.49
38:4I:57:VAL:HG13	38:4I:58:VAL:N	2.28	0.49
38:4N:25:PRO:C	38:4N:28:VAL:N	2.61	0.49
39:4S:59:THR:O	39:4S:62:THR:OG1	2.31	0.49
40:4U:544:GLY:N	40:4U:545:PRO:HD2	2.28	0.49
40:4U:730:ARG:HA	40:4U:733:TYR:HB2	1.95	0.49
41:5A:140:GLU:C	43:5L:167:PRO:CA	2.85	0.49
42:5H:135:ARG:HD2	43:5L:52:LEU:CG	2.39	0.49
43:5I:87:ILE:HG12	43:5I:146:TYR:CB	2.43	0.49
43:5J:87:ILE:HG12	43:5J:146:TYR:CB	2.43	0.49
12:5a:213:ARG:CD	12:5a:297:LYS:HD2	2.43	0.49
12:5g:116:VAL:O	12:5g:120:VAL:HG23	2.12	0.49
47:6A:771:PRO:HG3	47:6A:780:LEU:HD12	1.95	0.49
47:6A:823:ALA:HA	47:6A:907:LEU:HD13	1.94	0.49
47:6B:291:GLN:HE21	3:6D:205:PRO:HA	1.78	0.49
47:6B:958:ALA:HB1	47:6B:1029:HIS:HB3	1.95	0.49
48:6F:182:LEU:HD23	48:6F:204:LEU:HA	1.94	0.49
49:6J:182:ASN:ND2	49:6J:184:LYS:O	2.46	0.49
51:6M:2181:GLN:HB3	51:6M:2197:TYR:HB3	1.93	0.49
51:6M:2182:GLU:HG3	51:6M:2198:PRO:HG2	1.95	0.49
51:6N:1275:GLU:O	51:6N:1279:LYS:HG2	2.13	0.49
51:6N:2152:SER:HB2	51:6N:2256:CYS:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:6b:75:VAL:HG13	13:6b:92:LEU:HB3	1.95	0.49
13:6h:75:VAL:HG13	13:6h:92:LEU:HB3	1.95	0.49
13:6h:251:ASP:H	13:6h:254:GLU:HB2	1.76	0.49
12:7c:159:TYR:HB3	12:7c:162:ARG:HG3	1.94	0.49
13:7d:251:ASP:H	13:7d:254:GLU:HB2	1.76	0.49
12:8a:64:ILE:HG12	12:8a:119:VAL:HG13	1.94	0.49
12:8a:174:LYS:HZ1	13:8b:333:ALA:HA	1.75	0.49
12:8g:140:GLY:HA2	12:8g:184:ASN:HB2	1.95	0.49
12:8g:207:LEU:O	12:8g:210:ILE:HG22	2.13	0.49
12:9a:350:LYS:HD3	12:9a:350:LYS:C	2.37	0.49
12:9a:396:HIS:HA	12:9a:399:THR:OG1	2.13	0.49
13:9d:96:LYS:HG2	12:9e:1:MET:SD	2.53	0.49
13:9f:76:ASP:HA	13:9f:79:ARG:HD2	1.94	0.49
12:9g:134:GLN:HA	12:9g:165:LEU:O	2.12	0.49
12:Ac:102:ALA:HB2	12:Ac:403:MET:SD	2.53	0.49
12:Ac:207:LEU:HB3	12:Ac:225:LEU:HD22	1.95	0.49
12:Ae:60:VAL:CG1	12:Ae:86:ARG:HD2	2.43	0.49
12:Ae:86:ARG:CZ	12:Be:281:TYR:CE1	2.96	0.49
12:Ae:178:THR:HG22	13:Af:352:LYS:HZ3	1.78	0.49
12:Ag:134:GLN:HA	12:Ag:165:LEU:O	2.12	0.49
12:Ag:176:SER:OG	12:Ag:178:THR:O	2.30	0.49
12:Ba:309:ARG:NH2	12:Ba:343:GLU:OE1	2.46	0.49
12:Bc:193:VAL:HG13	12:Bc:262:ARG:HB2	1.95	0.49
13:Bd:76:ASP:HA	13:Bd:79:ARG:HD2	1.95	0.49
12:Cc:134:GLN:HA	12:Cc:165:LEU:O	2.12	0.49
12:De:98:GLY:HA2	13:Df:254:GLU:HG3	1.94	0.49
12:Dg:388:MET:HA	13:Dh:346:TRP:O	2.13	0.49
1:0J:361:GLY:HA2	1:0J:403:ALA:HA	1.95	0.49
1:0C:85:LEU:HA	1:0C:88:LEU:HD12	1.95	0.48
1:0D:105:PHE:O	1:0D:108:ARG:HG2	2.13	0.48
1:0D:118:ALA:O	1:0D:122:ILE:HG13	2.13	0.48
1:0E:12:ARG:O	1:0E:16:GLU:HG2	2.12	0.48
1:0F:134:LEU:HB3	1:0F:171:LEU:HB3	1.93	0.48
1:0L:83:GLU:O	1:0L:86:PRO:HD2	2.12	0.48
1:0P:104:ALA:HA	1:0P:107:LEU:HD12	1.94	0.48
1:0Q:354:SER:HB2	1:0Q:399:LYS:HG3	1.94	0.48
1:0Q:362:GLN:O	1:0Q:365:ARG:HG2	2.13	0.48
1:0S:28:ALA:HB1	1:0S:67:ARG:HB2	1.94	0.48
1:0S:50:LEU:HD11	1:0S:99:TYR:HE1	1.78	0.48
1:0S:227:ARG:HG3	1:0S:267:VAL:HG22	1.94	0.48
1:0T:65:LEU:CD2	1:0T:84:ILE:HG21	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0U:224:LYS:O	1:0U:228:GLN:HG2	2.12	0.48
1:0U:417:LEU:HD13	1:0U:435:GLU:HA	1.94	0.48
1:0Y:33:ASN:O	1:0Y:37:LEU:HG	2.13	0.48
1:0Y:332:ILE:HG13	1:0Y:370:HIS:HD1	1.73	0.48
1:0Y:413:HIS:CE1	1:0Y:416:ALA:H	2.30	0.48
1:0Z:33:ASN:O	1:0Z:37:LEU:HG	2.12	0.48
1:0Z:286:ALA:O	1:0Z:290:VAL:HG23	2.13	0.48
1:1A:219:ILE:HA	1:1A:255:LYS:NZ	2.28	0.48
3:1H:1005:PRO:HA	47:6A:406:ARG:CB	2.43	0.48
3:1I:813:VAL:HG22	3:1I:853:LEU:HD21	1.95	0.48
4:1J:95:THR:HB	4:1J:97:HIS:CD2	2.48	0.48
4:1J:204:SER:HA	4:1J:285:ALA:HB3	1.94	0.48
4:1K:194:LEU:HG	4:1K:272:TYR:CE2	2.47	0.48
5:1M:121:PRO:O	5:1M:177:GLY:HA3	2.12	0.48
5:1M:404:PRO:HB3	5:1M:427:PRO:HD3	1.93	0.48
6:1N:2029:GLY:HA2	9:1Q:375:TRP:HD1	1.77	0.48
7:1O:335:ARG:HH12	8:1P:869:LEU:HB2	1.77	0.48
7:1O:3032:GLN:OE1	7:1O:3205:GLY:HA3	2.13	0.48
10:1R:46:ILE:O	10:1R:50:ILE:HG13	2.13	0.48
10:1R:263:ASP:OD2	10:1R:288:TRP:CZ3	2.66	0.48
12:1a:66:MET:SD	12:1a:116:VAL:HG11	2.53	0.48
12:1a:313:ALA:O	12:1a:349:VAL:HA	2.13	0.48
12:1a:404:ASP:HB3	12:1a:407:GLU:OE1	2.12	0.48
13:1d:222:PRO:HD2	12:1e:324:LYS:HG2	1.93	0.48
13:1h:321:GLY:HA3	13:1h:372:GLN:O	2.12	0.48
14:2G:105:ALA:O	12:Ce:277:GLY:CA	2.61	0.48
20:2N:50:UNK:HA	12:6e:361:LEU:CD2	2.43	0.48
13:2d:76:ASP:HA	13:2d:79:ARG:HD2	1.95	0.48
12:2e:60:VAL:HG12	12:2e:86:ARG:HD3	1.95	0.48
12:2e:214:THR:HB	12:2e:297:LYS:HZ3	1.78	0.48
12:2e:404:ASP:HB3	12:2e:407:GLU:OE1	2.12	0.48
30:3F:542:MET:CE	30:3F:550:ARG:HH11	2.26	0.48
30:3F:631:LEU:O	30:3F:635:ARG:HG2	2.12	0.48
34:3M:465:LYS:C	34:3M:465:LYS:HD2	2.38	0.48
34:3M:481:LEU:HA	34:3M:481:LEU:HD12	1.49	0.48
34:3N:493:LYS:HA	34:3U:474:TRP:HH2	1.78	0.48
34:3Q:399:ALA:C	34:3Q:402:PRO:HD2	2.38	0.48
34:3R:99:ARG:NH2	34:4B:240:GLU:HG2	2.28	0.48
34:3S:79:ALA:O	34:3S:83:GLU:HG2	2.13	0.48
34:3S:81:GLU:OE2	34:3S:317:ARG:HG2	2.13	0.48
34:3S:418:GLY:O	34:3S:421:SER:OG	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3V:467:LEU:HB3	34:3X:500:TYR:HE1	1.77	0.48
34:3V:501:ASP:O	34:3V:505:THR:HG23	2.13	0.48
34:3W:197:ASN:O	34:3W:200:ALA:HB3	2.13	0.48
34:3X:269:GLY:HA3	34:3X:463:HIS:ND1	2.28	0.48
34:3Z:324:HIS:O	34:3Z:328:MET:HG2	2.13	0.48
13:3f:236:SER:O	13:3f:243:ARG:NH2	2.46	0.48
13:3h:236:SER:O	13:3h:243:ARG:NH2	2.46	0.48
35:4C:1056:PHE:CE1	35:4C:1073:VAL:HG13	2.47	0.48
37:4E:579:THR:CA	43:5L:35:LYS:CE	2.80	0.48
37:4E:1335:MET:SD	37:4E:1335:MET:N	2.84	0.48
37:4E:1510:VAL:HG23	37:4E:1511:PHE:CD2	2.48	0.48
37:4F:527:VAL:HA	37:4F:531:LEU:HD23	1.94	0.48
37:4F:1366:VAL:HG12	37:4F:1380:ALA:HA	1.94	0.48
37:4G:974:VAL:CG1	37:4G:975:VAL:N	2.72	0.48
37:4G:1132:PRO:HD3	38:4L:40:LYS:HD2	1.94	0.48
37:4G:1723:TYR:CE1	37:4G:1736:ARG:HD3	2.48	0.48
37:4H:1137:ALA:O	37:4H:1145:VAL:HG23	2.13	0.48
37:4H:1301:ASP:HB3	37:4H:1303:VAL:HG22	1.95	0.48
37:4H:1726:HIS:HA	44:5Q:98:LYS:HE3	1.94	0.48
38:4I:29:LYS:CA	38:4I:32:GLU:HB3	2.43	0.48
38:4K:57:VAL:HG13	38:4K:58:VAL:N	2.28	0.48
39:4S:22:LYS:NZ	43:5K:105:LEU:HD13	2.28	0.48
39:4S:126:LYS:HD2	39:4S:126:LYS:HA	1.56	0.48
40:4T:605:PHE:HA	40:4T:608:ASP:OD2	2.13	0.48
40:4U:605:PHE:HA	40:4U:608:ASP:OD2	2.13	0.48
40:4V:213:LEU:HD22	40:4V:220:GLY:N	2.27	0.48
13:4b:212:ILE:O	13:4b:216:SER:OG	2.25	0.48
13:4b:236:SER:O	13:4b:243:ARG:NH2	2.46	0.48
12:4g:207:LEU:HB3	12:4g:225:LEU:HD22	1.95	0.48
13:4h:21:TRP:CZ2	13:4h:65:CYS:HB2	2.47	0.48
42:5H:91:TYR:HB3	43:5L:41:ASP:CA	2.43	0.48
42:5H:129:MET:O	42:5H:134:LEU:N	2.45	0.48
42:5H:143:VAL:HG21	43:5L:144:TYR:C	2.38	0.48
43:5I:32:LEU:HG	43:5I:36:TYR:CE2	2.47	0.48
43:5I:34:ALA:HB3	43:5I:35:LYS:HD3	1.95	0.48
12:5a:23:VAL:HA	12:5a:26:ASP:OD2	2.13	0.48
12:5g:101:TRP:HD1	12:5g:145:SER:OG	1.95	0.48
13:5h:75:VAL:HG13	13:5h:92:LEU:HB3	1.95	0.48
47:6A:813:VAL:HG22	47:6A:814:ALA:N	2.28	0.48
47:6A:958:ALA:HB1	47:6A:1029:HIS:HB3	1.95	0.48
47:6A:1604:MET:O	47:6A:1608:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:26:ALA:O	47:6B:56:MET:HE1	2.12	0.48
47:6B:92:ARG:O	47:6B:95:TYR:HB3	2.11	0.48
47:6B:230:HIS:CE1	13:Bf:402:ARG:CZ	2.96	0.48
48:6E:104:GLU:HB2	48:6E:106:ARG:HH11	1.78	0.48
48:6E:182:LEU:HD23	48:6E:204:LEU:HA	1.94	0.48
49:6H:182:ASN:ND2	49:6H:184:LYS:O	2.46	0.48
49:6I:56:ILE:HA	49:6I:62:PRO:HA	1.95	0.48
50:6L:448:VAL:HG22	50:6L:463:GLY:O	2.13	0.48
51:6M:1242:MET:CE	51:6M:1436:CYS:HB2	2.43	0.48
51:6M:1275:GLU:O	51:6M:1279:LYS:HG2	2.13	0.48
51:6M:2172:PRO:HB3	51:6M:2281:GLU:OE2	2.13	0.48
51:6M:2433:GLN:HB2	51:6M:2436:GLU:HB3	1.95	0.48
51:6N:2052:ASP:HB2	51:6N:2102:VAL:HG12	1.94	0.48
51:6N:2172:PRO:HB3	51:6N:2281:GLU:OE2	2.13	0.48
51:6N:2182:GLU:HG3	51:6N:2198:PRO:HG2	1.95	0.48
13:6b:76:ASP:HA	13:6b:79:ARG:HD2	1.95	0.48
13:6f:75:VAL:HG13	13:6f:92:LEU:HB3	1.95	0.48
13:6f:76:ASP:HA	13:6f:79:ARG:HD2	1.94	0.48
12:7a:3:GLU:HB3	12:7a:62:ARG:NH2	2.27	0.48
12:7a:114:ASP:N	12:7a:114:ASP:OD2	2.45	0.48
13:7d:100:ALA:HA	12:7e:252:LYS:HG2	1.94	0.48
12:7g:274:THR:HG21	12:7g:279:GLN:HA	1.94	0.48
13:7h:75:VAL:HG13	13:7h:92:LEU:HB3	1.95	0.48
12:8a:206:ALA:O	12:8a:210:ILE:HG23	2.11	0.48
13:8b:76:ASP:HA	13:8b:79:ARG:HD2	1.95	0.48
13:8d:76:ASP:HA	13:8d:79:ARG:HD2	1.95	0.48
12:8g:183:TYR:OH	12:8g:388:MET:HB3	2.13	0.48
13:8h:268:MET:HB3	13:8h:378:ILE:HG23	1.95	0.48
12:9a:31:ASP:HB2	12:9a:32:PRO:HD2	1.95	0.48
12:9a:86:ARG:CZ	12:Aa:281:TYR:HB2	2.43	0.48
13:Ab:75:VAL:HG13	13:Ab:92:LEU:HB3	1.95	0.48
12:Ac:140:GLY:HA2	12:Ac:184:ASN:HB2	1.95	0.48
12:Ae:139:LEU:HD12	12:Ae:170:VAL:HG22	1.95	0.48
12:Bc:211:CYS:SG	12:Bc:220:PRO:HB3	2.52	0.48
12:Be:71:GLY:HA3	13:Bf:245:ASP:OD2	2.12	0.48
13:Bf:268:MET:HB3	13:Bf:378:ILE:HG23	1.95	0.48
12:Cc:170:VAL:HG13	12:Cc:171:PRO:HD2	1.94	0.48
13:Db:76:ASP:HA	13:Db:79:ARG:HD2	1.94	0.48
12:De:31:ASP:HB2	12:De:32:PRO:HD2	1.95	0.48
12:Dg:140:GLY:HA2	12:Dg:184:ASN:HB2	1.95	0.48
12:Dg:285:THR:OG1	12:Dg:287:PRO:HD2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0H:143:GLU:HB2	1:0H:183:LEU:CD2	2.43	0.48
1:0J:114:SER:OG	1:0J:117:LEU:HG	2.12	0.48
1:0W:72:SER:HB3	1:0W:75:LEU:HG	1.94	0.48
1:0I:210:ALA:O	1:0I:214:LEU:HG	2.13	0.48
1:0K:69:ALA:O	1:0K:113:HIS:CE1	2.59	0.48
1:0K:142:LYS:NZ	1:0K:178:GLU:OE1	2.39	0.48
1:0A:147:TRP:HE1	1:0A:186:ILE:HD12	1.78	0.48
1:0B:33:ASN:O	1:0B:37:LEU:HG	2.12	0.48
1:0C:83:GLU:C	1:0C:86:PRO:HD2	2.38	0.48
1:0C:83:GLU:O	1:0C:86:PRO:HD2	2.13	0.48
1:0E:248:VAL:HG11	1:0E:285:LEU:HG	1.95	0.48
1:0E:257:LEU:HD21	1:0E:294:GLY:HA2	1.95	0.48
1:0F:110:VAL:HG12	1:0F:117:LEU:HB3	1.95	0.48
1:0F:210:ALA:O	1:0F:214:LEU:HG	2.13	0.48
1:0L:168:ALA:O	1:0L:172:LEU:HG	2.13	0.48
1:0M:86:PRO:HA	1:0M:89:VAL:HG22	1.94	0.48
1:0M:367:THR:CB	1:0M:370:HIS:CD2	2.94	0.48
1:0N:17:ARG:O	1:0N:21:VAL:HG23	2.13	0.48
1:0O:302:ILE:HG23	1:0O:310:ARG:HE	1.77	0.48
1:0R:173:VAL:HG22	1:0R:210:ALA:HB2	1.95	0.48
1:0S:156:ASN:HB3	1:0S:159:LEU:HD13	1.95	0.48
1:0T:164:VAL:O	1:0T:167:GLY:HA2	2.13	0.48
1:0V:282:THR:HB	1:0V:285:LEU:HD22	1.94	0.48
1:0Y:28:ALA:HB1	1:0Y:67:ARG:HB2	1.94	0.48
1:0Y:355:ALA:O	1:0Y:359:THR:HG23	2.13	0.48
2:1D:45:ARG:NH1	13:Ah:434:GLU:OE2	2.46	0.48
2:1F:54:GLU:CD	10:1S:357:THR:HA	2.38	0.48
2:1F:359:VAL:HG11	2:1F:399:LEU:HB2	1.95	0.48
3:1H:1002:PRO:CB	47:6A:406:ARG:HH11	2.20	0.48
5:1L:426:LEU:HG	5:1L:429:GLY:HA3	1.95	0.48
5:1M:426:LEU:HG	5:1M:429:GLY:HA3	1.95	0.48
7:1O:3206:LEU:HD21	7:1O:3213:LEU:HD23	1.94	0.48
8:1P:978:LEU:CD2	8:1P:981:ASP:H	2.27	0.48
10:1R:394:ARG:CZ	13:Ab:120:ASP:OD1	2.61	0.48
13:1d:75:VAL:HG13	13:1d:92:LEU:HB3	1.95	0.48
12:1e:404:ASP:HB3	12:1e:407:GLU:OE1	2.13	0.48
24:2T:132:ARG:HD3	24:2T:132:ARG:C	2.38	0.48
12:2a:330:MET:SD	12:2a:349:VAL:HG11	2.53	0.48
30:3F:395:ALA:O	30:3F:399:GLU:HG2	2.12	0.48
30:3G:725:TYR:OH	13:6b:152:LEU:HD11	2.13	0.48
32:3K:78:PHE:CE2	32:3K:99:LEU:HD22	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3M:192:TYR:CD1	34:3P:55:GLN:HG3	2.48	0.48
34:3O:33:GLN:OE1	34:3O:33:GLN:HA	2.13	0.48
34:3O:38:HIS:NE2	34:3O:42:LEU:HD21	2.28	0.48
34:3O:451:ARG:O	34:3O:455:THR:HG23	2.13	0.48
34:3P:492:LEU:HD22	34:3S:255:HIS:CE1	2.48	0.48
34:3S:452:HIS:CE1	34:3S:456:LEU:HD11	2.47	0.48
34:3T:81:GLU:HG2	34:3T:85:TYR:CE2	2.48	0.48
34:3U:312:TRP:CZ2	34:3U:418:GLY:HA3	2.47	0.48
34:3V:107:TYR:O	34:3V:111:ILE:HG13	2.13	0.48
34:3W:89:ILE:HD13	34:3W:328:MET:SD	2.54	0.48
12:3a:209:ASP:O	12:3a:213:ARG:HG2	2.13	0.48
13:3b:100:ALA:HB1	12:3c:252:LYS:HA	1.95	0.48
13:3d:100:ALA:HA	12:3e:252:LYS:HG2	1.95	0.48
13:3d:236:SER:O	13:3d:243:ARG:NH2	2.46	0.48
34:4B:38:HIS:NE2	34:4B:452:HIS:HE1	2.11	0.48
34:4B:89:ILE:HD13	34:4B:328:MET:SD	2.54	0.48
37:4E:589:PRO:HG3	43:5L:17:SER:N	2.28	0.48
37:4E:741:PRO:HB2	37:4E:744:THR:HG23	1.95	0.48
37:4E:1720:LEU:HD12	37:4E:1730:LEU:HD12	1.95	0.48
37:4F:859:GLU:HB2	37:4F:860:LEU:HD12	1.95	0.48
37:4F:952:ASP:C	37:4F:954:SER:N	2.69	0.48
37:4F:958:LEU:CD2	38:4N:46:ALA:H	2.14	0.48
37:4G:826:LEU:CB	38:4L:82:TYR:HE1	2.26	0.48
37:4H:1143:LEU:HD23	37:4H:1158:PRO:CD	2.42	0.48
38:4J:57:VAL:HG13	38:4J:58:VAL:N	2.28	0.48
39:4Q:77:ARG:NH1	39:4Q:81:GLU:OE2	2.47	0.48
39:4R:77:ARG:NH1	39:4R:81:GLU:OE2	2.46	0.48
39:4S:77:ARG:NH1	39:4S:81:GLU:OE2	2.46	0.48
39:4S:142:ARG:HA	39:4S:145:ILE:HG22	1.95	0.48
40:4T:730:ARG:HA	40:4T:733:TYR:HB2	1.95	0.48
40:4V:552:TYR:O	40:4V:555:LEU:HG	2.13	0.48
40:4V:605:PHE:HA	40:4V:608:ASP:OD2	2.13	0.48
40:4V:730:ARG:HA	40:4V:733:TYR:HB2	1.95	0.48
12:4a:272:PRO:HD3	12:4a:364:SER:HA	1.94	0.48
12:4a:313:ALA:O	12:4a:349:VAL:HA	2.12	0.48
12:4c:110:ALA:HA	12:4c:113:ILE:HG22	1.95	0.48
13:4f:236:SER:O	13:4f:243:ARG:NH2	2.46	0.48
12:4g:116:VAL:O	12:4g:120:VAL:HG23	2.12	0.48
41:5A:141:ASN:CA	43:5L:167:PRO:C	2.87	0.48
42:5H:130:ALA:CA	43:5L:53:ASP:CG	2.84	0.48
42:5H:137:TYR:CD1	43:5L:45:ASN:C	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:137:TYR:HB2	43:5L:49:ALA:H	1.56	0.48
43:5I:9:ASP:O	43:5I:10:LEU:HB2	2.13	0.48
43:5I:112:PRO:CB	44:5S:116:LEU:HG	2.38	0.48
43:5I:124:MET:HA	43:5I:127:VAL:HG12	1.95	0.48
43:5L:124:MET:HA	43:5L:127:VAL:HG12	1.95	0.48
44:5T:93:PHE:HZ	44:5T:145:PHE:HE2	1.61	0.48
44:5T:93:PHE:HZ	44:5T:145:PHE:CE2	2.31	0.48
12:5a:31:ASP:HB2	12:5a:32:PRO:HD2	1.95	0.48
13:5b:75:VAL:HG13	13:5b:92:LEU:HB3	1.95	0.48
13:5b:236:SER:O	13:5b:243:ARG:NH2	2.46	0.48
12:5e:31:ASP:HB2	12:5e:32:PRO:HD2	1.95	0.48
12:5e:172:SER:HB2	12:5e:205:GLU:CG	2.43	0.48
47:6B:1207:LEU:HD22	51:6N:2453:LEU:HD23	1.94	0.48
47:6B:1472:LEU:HD12	47:6B:1473:ALA:N	2.27	0.48
48:6E:195:HIS:HA	48:6E:217:HIS:HB2	1.95	0.48
48:6E:309:LEU:HB3	48:6E:312:VAL:HG11	1.95	0.48
48:6E:730:VAL:O	48:6E:730:VAL:HG13	2.13	0.48
48:6F:309:LEU:HB3	48:6F:312:VAL:HG11	1.95	0.48
49:6G:39:LEU:HD12	49:6I:39:LEU:HD12	1.96	0.48
49:6J:56:ILE:HA	49:6J:62:PRO:HA	1.95	0.48
49:6J:346:GLU:HB3	49:6J:347:PRO:HD3	1.95	0.48
51:6M:1687:VAL:HG11	51:6M:1704:VAL:HG11	1.95	0.48
51:6N:1242:MET:CE	51:6N:1436:CYS:HB2	2.43	0.48
51:6N:1687:VAL:HG11	51:6N:1704:VAL:HG11	1.96	0.48
12:6c:139:LEU:HD12	12:6c:170:VAL:HG22	1.94	0.48
12:6c:229:ILE:HA	12:6c:300:MET:HE1	1.94	0.48
13:6d:75:VAL:HG13	13:6d:92:LEU:HB3	1.95	0.48
13:6h:76:ASP:HA	13:6h:79:ARG:HD2	1.95	0.48
13:7b:268:MET:HB3	13:7b:378:ILE:HG23	1.95	0.48
12:7c:140:GLY:HA2	12:7c:184:ASN:HB2	1.95	0.48
12:7c:229:ILE:HA	12:7c:300:MET:HE1	1.94	0.48
13:7d:75:VAL:HG13	13:7d:92:LEU:HB3	1.95	0.48
13:7f:75:VAL:HG13	13:7f:92:LEU:HB3	1.95	0.48
12:8c:68:LEU:HD21	12:8c:147:MET:SD	2.53	0.48
12:8e:253:LEU:HD13	12:8e:316:LEU:HD11	1.95	0.48
12:8e:380:ARG:O	12:8e:383:GLU:HG3	2.13	0.48
13:8f:268:MET:HB3	13:8f:378:ILE:HG23	1.95	0.48
12:8g:20:PHE:HA	12:8g:230:SER:HB2	1.95	0.48
12:8g:66:MET:SD	12:8g:151:LEU:HD22	2.53	0.48
13:8h:75:VAL:HG13	13:8h:92:LEU:HB3	1.95	0.48
12:9c:183:TYR:OH	12:9c:388:MET:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:9f:236:SER:O	13:9f:243:ARG:NH2	2.46	0.48
13:Af:75:VAL:HG13	13:Af:92:LEU:HB3	1.95	0.48
12:Ag:7:ILE:HB	12:Ag:135:VAL:HG12	1.95	0.48
12:Ag:25:SER:OG	12:Ag:30:ILE:O	2.31	0.48
12:Ag:115:SER:HA	12:Ag:118:ASP:OD2	2.13	0.48
13:Bb:268:MET:HB3	13:Bb:378:ILE:HG23	1.95	0.48
13:Bf:76:ASP:HA	13:Bf:79:ARG:HD2	1.94	0.48
12:Bg:86:ARG:HH12	12:Cg:281:TYR:C	2.21	0.48
12:Cc:183:TYR:OH	12:Cc:388:MET:HB3	2.13	0.48
12:Cc:3:GLU:HB3	12:Cc:62:ARG:NH2	2.27	0.48
12:Cc:209:ASP:CG	12:Cc:213:ARG:HH21	2.21	0.48
13:Ch:236:SER:O	13:Ch:243:ARG:NH2	2.46	0.48
1:0I:28:ALA:HB1	1:0I:67:ARG:HB2	1.96	0.48
1:0I:70:ASN:HA	1:0I:113:HIS:HE1	1.78	0.48
1:0I:311:LEU:HD11	1:0I:351:HIS:NE2	2.28	0.48
1:0K:270:HIS:O	1:0K:274:VAL:HG23	2.13	0.48
1:0A:173:VAL:HG22	1:0A:210:ALA:HB2	1.95	0.48
1:0A:265:GLU:HA	1:0A:268:LYS:HE2	1.94	0.48
1:0A:338:PRO:O	1:0A:341:VAL:HG22	2.13	0.48
1:0E:75:LEU:O	1:0E:79:VAL:HG23	2.12	0.48
1:0E:167:GLY:C	1:0E:169:VAL:H	2.16	0.48
1:0L:98:PHE:HD2	12:8e:406:MET:HE3	1.77	0.48
1:0L:252:ILE:HG22	1:0L:256:ILE:HG12	1.93	0.48
1:0M:316:ALA:O	1:0M:320:ILE:HG23	2.14	0.48
1:0P:17:ARG:NH1	1:0P:52:ASP:OD1	2.46	0.48
1:0P:174:LEU:O	1:0P:178:GLU:HG2	2.13	0.48
1:0P:240:SER:HB2	1:0P:243:LEU:HG	1.96	0.48
1:0Q:28:ALA:HB1	1:0Q:67:ARG:HB2	1.96	0.48
1:0Q:70:ASN:HA	1:0Q:113:HIS:HE1	1.78	0.48
1:0R:137:PHE:CZ	4:1K:177:GLU:HG2	2.48	0.48
1:0X:358:TRP:HB2	1:0X:399:LYS:HD2	1.95	0.48
1:0Y:17:ARG:O	1:0Y:21:VAL:HG22	2.13	0.48
1:1B:390:GLY:HA2	1:1B:397:LYS:HZ3	1.77	0.48
2:1D:193:VAL:HG22	2:1D:232:ALA:HB2	1.95	0.48
2:1E:158:THR:HG23	2:1E:161:VAL:HB	1.95	0.48
6:1N:349:ARG:HH21	6:1N:381:TRP:CG	2.32	0.48
6:1N:510:TYR:CZ	6:1N:525:ARG:HB3	2.47	0.48
6:1N:2655:CYS:HB2	6:1N:2703:ALA:O	2.13	0.48
7:1O:1130:VAL:HG21	7:1O:1823:PHE:HD2	1.79	0.48
10:1R:46:ILE:HG23	10:1R:102:LEU:HD23	1.95	0.48
10:1S:369:LYS:HZ3	12:Ag:128:ASP:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1b:75:VAL:HG13	13:1b:92:LEU:HB3	1.95	0.48
12:1c:330:MET:HB3	12:1c:349:VAL:HG11	1.95	0.48
13:1d:76:ASP:HA	13:1d:79:ARG:HD2	1.95	0.48
12:1e:247:ASN:O	12:1e:252:LYS:NZ	2.45	0.48
13:1f:236:SER:O	13:1f:243:ARG:NH2	2.46	0.48
12:1g:39:ASP:N	12:1g:39:ASP:OD1	2.46	0.48
13:1h:75:VAL:HG13	13:1h:92:LEU:HB3	1.95	0.48
12:2a:235:GLY:HA3	12:2a:366:THR:HG21	1.94	0.48
12:2a:394:PHE:CD1	13:2b:261:PRO:HA	2.48	0.48
12:2g:48:ASN:O	12:2g:62:ARG:NH2	2.42	0.48
30:3F:271:LYS:HZ2	12:6e:428:ALA:HB1	1.78	0.48
30:3F:337:PRO:HB3	13:7f:402:ARG:CZ	2.43	0.48
30:3G:539:LEU:HG	13:8h:298:PRO:HD3	1.95	0.48
32:3K:366:LYS:C	32:3K:366:LYS:HD3	2.39	0.48
34:3P:312:TRP:CZ2	34:3P:418:GLY:HA3	2.47	0.48
34:3S:73:VAL:HG13	34:3U:47:ASN:HD21	1.79	0.48
34:3S:192:TYR:CD1	34:3U:55:GLN:HG3	2.48	0.48
34:3U:118:HIS:CE1	34:3U:356:PHE:CD2	3.01	0.48
34:3U:294:HIS:NE2	34:3U:437:GLY:HA3	2.28	0.48
34:3U:335:SER:O	34:3U:339:GLU:HG2	2.13	0.48
35:4C:539:SER:HB3	35:4C:720:THR:HA	1.95	0.48
37:4E:733:LEU:HD23	37:4E:1801:GLN:OE1	2.12	0.48
37:4E:1529:ILE:CD1	37:4E:1609:PRO:HB3	2.44	0.48
37:4F:534:HIS:NE2	37:4F:538:GLU:OE1	2.46	0.48
37:4F:918:GLN:NE2	37:4F:1516:PRO:HB2	2.29	0.48
37:4F:958:LEU:CD1	38:4N:45:ALA:HB1	2.43	0.48
37:4G:969:LEU:HD12	37:4G:1074:GLN:C	2.38	0.48
37:4G:1084:ARG:CB	38:4L:37:GLY:HA3	2.44	0.48
37:4G:1315:VAL:O	38:4L:26:GLU:CD	2.56	0.48
37:4H:757:LEU:CD1	37:4H:810:VAL:HG23	2.43	0.48
37:4H:943:ASP:OD2	37:4H:951:ASN:HB2	2.14	0.48
37:4H:952:ASP:CG	37:4H:954:SER:OG	2.55	0.48
37:4H:1332:SER:CB	38:4M:24:THR:HB	2.43	0.48
37:4H:1734:PHE:CD2	37:4H:1736:ARG:NH1	2.77	0.48
40:4T:50:LEU:CD1	40:4T:73:LEU:HB3	2.43	0.48
40:4T:552:TYR:O	40:4T:555:LEU:HG	2.13	0.48
40:4V:50:LEU:CD1	40:4V:73:LEU:HB3	2.43	0.48
40:4V:700:GLN:HA	40:4V:724:LEU:HD23	1.95	0.48
13:4d:236:SER:O	13:4d:243:ARG:NH2	2.46	0.48
12:4e:7:ILE:HD13	12:4e:135:VAL:HG12	1.94	0.48
42:5H:137:TYR:CZ	43:5L:45:ASN:CG	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:147:ALA:HA	43:5L:148:ASN:CB	2.44	0.48
43:5K:139:TYR:CZ	43:5K:143:MET:HE3	2.48	0.48
12:5c:110:ALA:HA	12:5c:113:ILE:HG22	1.95	0.48
12:5g:20:PHE:HA	12:5g:230:SER:HB2	1.96	0.48
47:6A:107:THR:HG22	47:6A:110:LYS:HZ3	1.78	0.48
47:6B:82:LEU:HD21	47:6B:93:LEU:HD12	1.95	0.48
47:6B:344:LYS:O	47:6B:347:ARG:HB2	2.14	0.48
47:6B:392:LEU:HD21	3:6D:983:ARG:HB3	1.95	0.48
47:6B:771:PRO:HG3	47:6B:780:LEU:HD12	1.95	0.48
47:6B:813:VAL:HG22	47:6B:814:ALA:N	2.28	0.48
47:6B:1604:MET:O	47:6B:1608:LEU:HG	2.13	0.48
48:6E:267:LEU:HD21	48:6E:299:VAL:HG22	1.96	0.48
48:6E:847:LEU:HD11	48:6E:952:LEU:CD1	2.43	0.48
50:6K:444:VAL:HG11	50:6K:480:ILE:HD13	1.95	0.48
51:6N:1605:GLU:HB2	51:6N:1700:LYS:HB3	1.94	0.48
51:6N:2166:LEU:HB2	51:6N:2242:VAL:HB	1.96	0.48
12:6a:127:CYS:SG	12:6a:128:ASP:N	2.86	0.48
12:6g:179:VAL:O	12:6g:388:MET:HE1	2.13	0.48
12:7a:116:VAL:O	12:7a:120:VAL:HG12	2.13	0.48
12:7a:284:LEU:CD2	12:7a:362:LYS:HB2	2.43	0.48
12:8c:31:ASP:HB2	12:8c:32:PRO:HD2	1.95	0.48
12:8c:141:GLY:O	12:8c:145:SER:HB3	2.12	0.48
13:8d:268:MET:HB3	13:8d:378:ILE:HG23	1.95	0.48
12:8e:208:TYR:HA	12:8e:211:CYS:SG	2.54	0.48
12:8e:276:ARG:NH2	12:8e:279:GLN:HB3	2.28	0.48
13:9b:76:ASP:HA	13:9b:79:ARG:HD2	1.95	0.48
12:9c:48:ASN:O	12:9c:62:ARG:NH2	2.42	0.48
12:9e:208:TYR:HA	12:9e:211:CYS:SG	2.53	0.48
12:Ac:3:GLU:OE1	12:Ac:3:GLU:N	2.46	0.48
12:Ag:183:TYR:OH	12:Ag:388:MET:HB3	2.13	0.48
12:Bc:274:THR:HG21	12:Bc:279:GLN:HA	1.94	0.48
13:Cd:236:SER:O	13:Cd:243:ARG:NH2	2.46	0.48
12:Ce:33:THR:HG23	12:Ce:35:THR:HG22	1.94	0.48
13:Db:210:TYR:CD1	12:Dc:324:LYS:HB2	2.48	0.48
12:Dc:68:LEU:HB3	12:Dc:96:GLY:HA2	1.94	0.48
12:Dc:140:GLY:HA2	12:Dc:184:ASN:HB2	1.95	0.48
12:Dc:183:TYR:OH	12:Dc:388:MET:HB3	2.13	0.48
13:Dh:212:ILE:O	13:Dh:216:SER:OG	2.25	0.48
1:0H:23:ALA:O	1:0H:27:MET:HG3	2.13	0.48
1:0J:104:ALA:O	1:0J:108:ARG:HG3	2.13	0.48
1:0W:70:ASN:HA	1:0W:113:HIS:NE2	2.24	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0B:76:ALA:O	1:0B:80:VAL:HG23	2.13	0.48
1:0B:414:LEU:HD21	1:0B:439:LYS:HA	1.96	0.48
1:0C:65:LEU:HD22	1:0C:84:ILE:HG21	1.96	0.48
1:0C:240:SER:HB3	1:0C:243:LEU:HG	1.94	0.48
1:0F:80:VAL:HG22	1:0F:85:LEU:HD11	1.95	0.48
1:0L:306:ALA:HB3	1:0L:309:ASN:ND2	2.29	0.48
1:0M:21:VAL:HG11	1:0M:57:ILE:HG23	1.95	0.48
1:0N:227:ARG:HG3	1:0N:267:VAL:HG22	1.96	0.48
1:0P:231:CYS:O	1:0P:235:GLN:HG2	2.14	0.48
1:0Q:45:LEU:C	1:0Q:48:PRO:HD2	2.38	0.48
1:0X:173:VAL:HG22	1:0X:210:ALA:HB2	1.96	0.48
1:0X:379:CYS:O	1:0X:383:LEU:HG	2.13	0.48
1:0Y:86:PRO:HA	1:0Y:89:VAL:HG22	1.94	0.48
1:0Y:242:ASP:O	1:0Y:246:VAL:HG23	2.13	0.48
1:0Y:414:LEU:HD21	1:0Y:439:LYS:HA	1.96	0.48
1:0Z:240:SER:HB3	1:0Z:243:LEU:HG	1.94	0.48
1:1B:169:VAL:HA	1:1B:172:LEU:HD12	1.94	0.48
2:1F:373:ARG:HD2	2:1F:374:GLY:CA	2.43	0.48
2:1G:193:VAL:HG11	2:1G:231:ASN:HB3	1.95	0.48
4:1J:20:THR:HG22	4:1J:55:GLU:OE2	2.13	0.48
4:1K:20:THR:HG22	4:1K:55:GLU:OE2	2.13	0.48
4:1K:25:LYS:CE	13:Bd:415:GLU:H	2.24	0.48
4:1K:95:THR:HB	4:1K:97:HIS:CD2	2.48	0.48
6:1N:465:ARG:O	6:1N:469:VAL:HG23	2.14	0.48
7:1O:943:PRO:N	7:1O:944:PRO:HD2	2.29	0.48
10:1S:402:LYS:HE2	12:Ae:95:THR:HG21	1.94	0.48
12:1e:31:ASP:HB2	12:1e:32:PRO:HD2	1.95	0.48
12:1e:179:VAL:HG22	13:1f:351:PHE:N	2.28	0.48
13:1h:212:ILE:O	13:1h:216:SER:OG	2.25	0.48
13:2b:75:VAL:HG13	13:2b:92:LEU:HB3	1.95	0.48
13:2b:76:ASP:HA	13:2b:79:ARG:HD2	1.94	0.48
12:2c:48:ASN:O	12:2c:62:ARG:NH2	2.42	0.48
12:2e:272:PRO:HD3	12:2e:364:SER:HA	1.95	0.48
13:2f:75:VAL:HG13	13:2f:92:LEU:HB3	1.95	0.48
30:3F:323:LEU:HD13	13:7f:340:THR:HG23	1.94	0.48
30:3F:506:ARG:NH1	12:7a:107:THR:HG22	2.29	0.48
30:3F:646:ALA:O	30:3F:650:LYS:HG2	2.13	0.48
31:3I:319:LYS:O	31:3I:322:LEU:HG	2.14	0.48
34:3P:119:MET:O	34:3P:123:GLN:HG2	2.13	0.48
34:3P:294:HIS:NE2	34:3P:437:GLY:HA3	2.28	0.48
34:3Q:463:HIS:NE2	34:3T:507:VAL:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3R:284:PHE:HA	34:3R:287:CYS:SG	2.52	0.48
34:3T:55:GLN:HB3	34:3T:215:THR:CG2	2.42	0.48
34:3T:86:GLN:O	34:3T:90:GLU:HG2	2.13	0.48
34:3T:219:ILE:O	34:3T:222:LEU:HB3	2.14	0.48
34:3U:435:SER:HA	34:3X:417:SER:OG	2.13	0.48
34:3V:235:LEU:HA	34:3Z:99:ARG:NH2	2.28	0.48
34:3V:328:MET:HA	34:3V:328:MET:HE2	1.95	0.48
34:3W:38:HIS:NE2	34:3W:452:HIS:HE1	2.11	0.48
12:3g:159:TYR:HB3	12:3g:162:ARG:HG3	1.95	0.48
13:3h:264:ARG:HD3	39:4Q:172:THR:HG23	1.96	0.48
34:4B:197:ASN:O	34:4B:200:ALA:HB3	2.13	0.48
36:4D:42:ILE:HB	36:4D:108:LYS:NZ	2.26	0.48
37:4E:577:LEU:HD23	42:5H:91:TYR:OH	2.13	0.48
37:4E:580:GLU:N	37:4E:580:GLU:CG	2.76	0.48
37:4E:580:GLU:O	43:5L:35:LYS:C	2.56	0.48
37:4E:1678:VAL:HG13	37:4E:1700:VAL:HG22	1.95	0.48
37:4F:574:LEU:HD23	42:5G:130:ALA:HB2	1.94	0.48
37:4F:1163:SER:OG	37:4F:1184:TRP:HB3	2.14	0.48
37:4F:1196:GLU:HG3	37:4F:1276:THR:HB	1.96	0.48
37:4G:599:VAL:HG13	37:4G:606:ALA:HB1	1.94	0.48
37:4G:918:GLN:NE2	37:4G:1516:PRO:HB2	2.29	0.48
37:4H:1130:ALA:HB1	38:4M:44:LEU:CA	2.44	0.48
38:4I:30:ALA:O	38:4I:33:LYS:CA	2.60	0.48
38:4J:29:LYS:CA	38:4J:32:GLU:HB3	2.44	0.48
38:4J:31:ALA:HA	38:4J:34:ALA:H	1.78	0.48
38:4K:45:ALA:C	38:4K:47:ALA:N	2.72	0.48
38:4L:67:ALA:HA	38:4L:70:LYS:CB	2.40	0.48
38:4M:57:VAL:HG13	38:4M:58:VAL:N	2.28	0.48
38:4N:54:GLU:HA	38:4N:58:VAL:CG2	2.43	0.48
38:4O:73:PRO:HG2	38:4O:76:PRO:HA	1.95	0.48
40:4T:544:GLY:N	40:4T:545:PRO:HD2	2.28	0.48
40:4T:656:ALA:HB1	40:4T:833:PHE:HB2	1.94	0.48
40:4V:544:GLY:N	40:4V:545:PRO:HD2	2.28	0.48
41:5B:135:GLU:N	41:5B:148:VAL:O	2.46	0.48
41:5C:135:GLU:N	41:5C:148:VAL:O	2.47	0.48
42:5H:10:PHE:CD1	42:5H:15:LEU:HB2	2.48	0.48
42:5H:91:TYR:CD1	43:5L:42:TYR:CA	2.96	0.48
42:5H:156:GLU:HA	43:5L:157:ALA:H	1.78	0.48
43:5J:34:ALA:HB3	43:5J:35:LYS:HD3	1.96	0.48
43:5J:139:TYR:CZ	43:5J:143:MET:HE3	2.48	0.48
12:5a:99:ASN:HA	12:5a:142:GLY:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5b:9:ILE:HD13	13:5b:150:GLY:HA2	1.96	0.48
13:5d:75:VAL:HG13	13:5d:92:LEU:HB3	1.95	0.48
13:5f:75:VAL:HG13	13:5f:92:LEU:HB3	1.95	0.48
47:6A:566:LEU:HD12	47:6A:1158:ARG:NH1	2.18	0.48
47:6A:823:ALA:HA	47:6A:907:LEU:CD1	2.44	0.48
47:6B:162:ASN:OD1	47:6B:164:ASN:N	2.47	0.48
47:6B:330:MET:HA	47:6B:333:VAL:HG12	1.96	0.48
47:6B:594:LEU:HD11	47:6B:606:LYS:HD2	1.95	0.48
47:6B:823:ALA:HA	47:6B:907:LEU:CD1	2.44	0.48
47:6B:941:CYS:HB2	47:6B:1067:ALA:HB1	1.95	0.48
47:6B:1165:HIS:CE1	47:6B:1169:LYS:HD2	2.49	0.48
48:6E:61:ARG:O	48:6E:68:PRO:HA	2.13	0.48
48:6F:104:GLU:HB2	48:6F:106:ARG:HH11	1.78	0.48
48:6F:131:ARG:NH2	49:6H:279:THR:HG21	2.22	0.48
48:6F:195:HIS:HA	48:6F:217:HIS:HB2	1.95	0.48
48:6F:730:VAL:O	48:6F:730:VAL:HG13	2.13	0.48
49:6G:56:ILE:HA	49:6G:62:PRO:HA	1.95	0.48
49:6J:61:ASN:HB3	49:6J:104:LYS:HB3	1.96	0.48
49:6J:278:TYR:HB2	49:6J:281:LYS:HB2	1.95	0.48
50:6K:568:LEU:HD21	50:6K:612:ILE:HG23	1.95	0.48
50:6L:568:LEU:HD21	50:6L:612:ILE:HG23	1.95	0.48
51:6M:1257:MET:HE2	51:6M:1449:PHE:HB2	1.96	0.48
51:6M:2166:LEU:HB2	51:6M:2242:VAL:HB	1.96	0.48
51:6N:1257:MET:HE2	51:6N:1449:PHE:HB2	1.96	0.48
51:6N:2181:GLN:HB3	51:6N:2197:TYR:HB3	1.94	0.48
51:6N:2433:GLN:HB2	51:6N:2436:GLU:HB3	1.95	0.48
13:6d:76:ASP:HA	13:6d:79:ARG:HD2	1.95	0.48
12:6e:86:ARG:CZ	12:7e:281:TYR:CD1	2.96	0.48
12:6g:177:ASP:O	13:6h:352:LYS:HA	2.13	0.48
12:6g:207:LEU:HB3	12:6g:225:LEU:HD22	1.95	0.48
12:7c:301:CYS:SG	12:7c:377:MET:SD	3.12	0.48
13:7d:268:MET:HB3	13:7d:378:ILE:HG23	1.95	0.48
13:7f:268:MET:HB3	13:7f:378:ILE:HG23	1.95	0.48
13:8b:212:ILE:O	13:8b:216:SER:OG	2.25	0.48
12:8c:341:PHE:HB3	12:8c:348:ASN:ND2	2.29	0.48
13:8f:210:TYR:CE1	12:8g:324:LYS:HB2	2.48	0.48
12:9g:173:PRO:HA	12:9g:380:ARG:HD2	1.96	0.48
13:9h:236:SER:O	13:9h:243:ARG:NH2	2.46	0.48
12:Aa:31:ASP:HB2	12:Aa:32:PRO:HD2	1.94	0.48
12:Aa:139:LEU:HD22	12:Aa:188:SER:HB3	1.94	0.48
12:Bc:31:ASP:HB2	12:Bc:32:PRO:HD2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Be:222:PHE:CZ	13:Bf:248:LEU:HG	2.48	0.48
13:Bh:200:VAL:HG23	13:Bh:256:GLN:HG2	1.96	0.48
12:Cc:173:PRO:HA	12:Cc:380:ARG:HD2	1.95	0.48
13:Cf:236:SER:O	13:Cf:243:ARG:NH2	2.46	0.48
12:Cg:86:ARG:HG3	12:Cg:86:ARG:HH11	1.79	0.48
13:Dd:236:SER:O	13:Dd:243:ARG:NH2	2.46	0.48
13:Df:236:SER:O	13:Df:243:ARG:NH2	2.46	0.48
12:Dg:175:VAL:HG11	13:Dh:332:VAL:CG1	2.43	0.48
12:Dg:343:GLU:OE2	12:Dg:429:SER:HA	2.14	0.48
1:0H:231:CYS:O	1:0H:235:GLN:HG2	2.14	0.48
1:0H:383:LEU:HB3	1:0H:400:CYS:HB3	1.94	0.48
1:0W:134:LEU:HD21	1:0W:146:ALA:HB2	1.95	0.48
1:0I:24:VAL:HG11	1:0I:46:LEU:HD21	1.95	0.48
1:0I:45:LEU:C	1:0I:48:PRO:HD2	2.38	0.48
1:0I:244:ALA:HB1	1:0I:278:VAL:HA	1.94	0.48
1:0I:318:GLY:HA3	1:0I:359:THR:HG22	1.95	0.48
44:5P:32:THR:OG1	44:5P:35:GLU:HG2	2.13	0.48
1:0A:128:ASP:HA	1:0A:131:VAL:HG22	1.94	0.48
1:0B:224:LYS:O	1:0B:228:GLN:HG2	2.13	0.48
1:0B:413:HIS:CE1	1:0B:416:ALA:H	2.30	0.48
1:0L:219:ILE:HG13	1:0L:255:LYS:CD	2.33	0.48
1:0M:413:HIS:CD2	1:0M:416:ALA:H	2.31	0.48
1:0N:219:ILE:HG13	1:0N:255:LYS:CD	2.33	0.48
1:0N:262:PHE:HE2	1:0N:264:ASP:CG	2.22	0.48
1:0N:290:VAL:HG22	1:0N:295:VAL:HG21	1.95	0.48
1:0O:273:THR:O	1:0O:277:GLU:HG2	2.13	0.48
1:0P:23:ALA:O	1:0P:27:MET:HG3	2.13	0.48
1:0T:227:ARG:HG3	1:0T:267:VAL:HG22	1.94	0.48
1:0X:108:ARG:NH1	1:0X:147:TRP:HE3	2.11	0.48
2:1F:298:ALA:O	2:1F:302:GLN:HG2	2.14	0.48
2:1G:298:ALA:O	2:1G:302:GLN:HG2	2.14	0.48
3:1H:789:LEU:HD11	3:1H:804:VAL:HB	1.95	0.48
3:1H:913:THR:HB	3:1H:915:TRP:CZ3	2.49	0.48
3:1I:168:GLN:HB3	3:1I:228:ASN:ND2	2.18	0.48
4:1J:21:ILE:O	4:1J:21:ILE:HG22	2.13	0.48
4:1J:194:LEU:HG	4:1J:272:TYR:CE2	2.47	0.48
4:1K:21:ILE:O	4:1K:21:ILE:HG22	2.13	0.48
4:1K:324:LYS:HB3	4:1K:324:LYS:HE3	1.63	0.48
6:1N:553:ALA:O	6:1N:557:ILE:HG13	2.13	0.48
6:1N:2681:PRO:HB2	6:1N:2698:VAL:HG13	1.95	0.48
7:1O:2093:LEU:CD2	7:1O:2096:ARG:HE	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1O:2835:ARG:O	7:1O:2839:LEU:HG	2.14	0.48
7:1O:3016:SER:OG	7:1O:3017:PRO:HD3	2.14	0.48
10:1R:232:MET:O	31:3H:139:SER:HB2	2.13	0.48
10:1R:241:MET:HE2	32:3J:26:PRO:HA	1.96	0.48
12:1a:31:ASP:HB2	12:1a:32:PRO:HD2	1.94	0.48
13:1b:76:ASP:HA	13:1b:79:ARG:HD2	1.94	0.48
12:1c:39:ASP:N	12:1c:39:ASP:OD1	2.46	0.48
12:1c:48:ASN:O	12:1c:62:ARG:NH2	2.43	0.48
12:1e:281:TYR:CE1	13:Db:87:PHE:O	2.66	0.48
24:2T:134:VAL:O	24:2T:137:THR:HG22	2.14	0.48
13:2d:75:VAL:HG13	13:2d:92:LEU:HB3	1.95	0.48
12:2e:31:ASP:HB2	12:2e:32:PRO:HD2	1.95	0.48
13:2f:178:SER:OG	12:2g:347:ASN:ND2	2.46	0.48
12:2g:140:GLY:HA2	12:2g:184:ASN:HB2	1.96	0.48
13:2h:75:VAL:HG13	13:2h:92:LEU:HB3	1.95	0.48
13:2h:76:ASP:HA	13:2h:79:ARG:HD2	1.95	0.48
30:3F:311:ILE:HG22	13:6f:159:VAL:HG21	1.95	0.48
30:3F:413:ILE:O	30:3F:417:MET:HG2	2.14	0.48
30:3F:445:ARG:HG2	13:7d:163:LYS:HE2	1.95	0.48
30:3G:538:LEU:HD11	13:7h:117:LEU:HD22	1.94	0.48
34:3M:189:PRO:HB3	34:3M:306:VAL:HG11	1.95	0.48
34:3N:493:LYS:HA	34:3U:474:TRP:CH2	2.49	0.48
34:3P:312:TRP:CG	34:3P:422:HIS:HE2	2.31	0.48
34:3P:335:SER:O	34:3P:339:GLU:HG2	2.14	0.48
34:3Q:254:MET:HG2	34:3Q:477:GLU:CD	2.39	0.48
34:3Q:259:MET:HA	34:3Q:262:THR:HG22	1.96	0.48
34:3Q:496:TYR:HE1	34:3T:471:ARG:HG3	1.79	0.48
34:3V:88:ALA:O	34:3V:92:THR:HG23	2.13	0.48
34:3X:46:ARG:HG2	34:3X:445:TYR:HE2	1.78	0.48
34:3Z:46:ARG:HG2	34:3Z:445:TYR:HE2	1.78	0.48
34:3Z:259:MET:HA	34:3Z:262:THR:HG22	1.95	0.48
12:3a:252:LYS:O	12:3a:256:ASN:ND2	2.46	0.48
12:3e:284:LEU:HG	12:3e:363:MET:HE3	1.95	0.48
34:4B:324:HIS:O	34:4B:328:MET:HG2	2.14	0.48
35:4C:728:ARG:HH11	37:4E:1764:PRO:HD3	1.77	0.48
35:4C:728:ARG:NH1	37:4E:1764:PRO:HD3	2.28	0.48
36:4D:92:ASP:HB3	36:4D:131:TYR:CB	2.44	0.48
37:4E:812:ALA:HA	37:4E:1624:ILE:HD13	1.94	0.48
37:4E:834:ALA:HA	37:4E:837:ARG:HD2	1.96	0.48
37:4E:1692:GLY:O	37:4E:1784:PRO:HD3	2.13	0.48
37:4E:1778:ARG:HG2	37:4E:1780:LEU:HG	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1719:LEU:HB2	37:4F:1741:VAL:HG12	1.94	0.48
37:4G:901:VAL:HG23	37:4G:1525:LEU:HD23	1.95	0.48
37:4G:952:ASP:OD1	37:4G:954:SER:N	2.45	0.48
37:4G:1082:LEU:CG	38:4L:39:HIS:HB3	2.42	0.48
37:4G:1136:ARG:HD3	38:4L:33:LYS:HZ3	1.78	0.48
37:4H:1162:VAL:HG23	37:4H:1299:ARG:HH22	1.79	0.48
38:4M:45:ALA:C	38:4M:47:ALA:N	2.72	0.48
40:4V:656:ALA:HB1	40:4V:833:PHE:HB2	1.94	0.48
12:4c:159:TYR:HB3	12:4c:162:ARG:HG3	1.95	0.48
13:4d:212:ILE:O	13:4d:216:SER:OG	2.25	0.48
13:4h:236:SER:O	13:4h:243:ARG:NH2	2.46	0.48
41:5D:161:PHE:HA	41:5D:165:SER:O	2.13	0.48
42:5F:139:LEU:CD2	43:5J:50:ILE:HD12	2.44	0.48
42:5H:51:LEU:HD23	42:5H:51:LEU:C	2.38	0.48
42:5H:140:TYR:HE2	43:5L:144:TYR:HD2	1.59	0.48
43:5I:27:LEU:CD2	43:5I:32:LEU:HD13	2.43	0.48
43:5I:143:MET:C	43:5I:145:SER:H	2.22	0.48
43:5J:143:MET:C	43:5J:145:SER:H	2.22	0.48
43:5L:143:MET:C	43:5L:145:SER:H	2.22	0.48
44:5R:32:THR:OG1	44:5R:35:GLU:HG2	2.14	0.48
12:5a:16:ILE:HD11	12:5a:229:ILE:HG21	1.96	0.48
12:5a:91:VAL:CG2	12:5a:116:VAL:HG12	2.43	0.48
13:5h:9:ILE:HD13	13:5h:150:GLY:HA2	1.96	0.48
13:5h:236:SER:O	13:5h:243:ARG:NH2	2.46	0.48
47:6A:82:LEU:HD21	47:6A:93:LEU:HD12	1.95	0.48
47:6A:111:HIS:CD2	47:6A:112:MET:N	2.81	0.48
47:6A:330:MET:HA	47:6A:333:VAL:HG12	1.96	0.48
47:6A:344:LYS:O	47:6A:347:ARG:HB2	2.14	0.48
47:6A:941:CYS:HB2	47:6A:1067:ALA:HB1	1.95	0.48
47:6B:1254:TRP:HA	47:6B:1257:CYS:SG	2.54	0.48
47:6B:1271:VAL:HA	47:6B:1274:ASP:OD2	2.13	0.48
3:6D:787:GLU:O	3:6D:790:ARG:HG2	2.13	0.48
48:6E:208:ALA:O	48:6E:231:GLN:HB2	2.13	0.48
48:6F:61:ARG:O	48:6F:68:PRO:HA	2.13	0.48
48:6F:115:THR:HA	48:6F:143:LEU:HA	1.95	0.48
48:6F:267:LEU:HD21	48:6F:299:VAL:HG22	1.95	0.48
49:6H:56:ILE:HA	49:6H:62:PRO:HA	1.95	0.48
49:6H:411:VAL:HG13	49:6H:434:SER:HA	1.96	0.48
50:6K:154:PHE:HD2	50:6K:158:GLN:CD	2.21	0.48
51:6M:1605:GLU:HB2	51:6M:1700:LYS:HB3	1.94	0.48
13:6b:145:THR:OG1	54:6c:501:GTP:O3B	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6c:141:GLY:O	12:6c:145:SER:OG	2.28	0.48
13:7h:236:SER:O	13:7h:243:ARG:NH2	2.46	0.48
12:8c:106:TYR:CE2	12:8c:403:MET:HE2	2.49	0.48
12:8e:249:ASP:H	12:8e:252:LYS:HD2	1.77	0.48
13:8f:179:THR:HG22	12:8g:327:ASP:OD1	2.14	0.48
12:9a:174:LYS:HZ2	13:9b:333:ALA:HA	1.78	0.48
13:9b:75:VAL:HG13	13:9b:92:LEU:HB3	1.95	0.48
13:9d:75:VAL:HG13	13:9d:92:LEU:HB3	1.95	0.48
12:9g:139:LEU:HD12	12:9g:170:VAL:HG22	1.96	0.48
12:Ba:1:MET:HE2	12:Ba:1:MET:N	2.23	0.48
12:Bc:207:LEU:O	12:Bc:210:ILE:HG22	2.13	0.48
12:Bg:280:GLN:NE2	12:Bg:281:TYR:CE2	2.82	0.48
13:Cb:236:SER:O	13:Cb:243:ARG:NH2	2.46	0.48
12:Cc:139:LEU:HD12	12:Cc:170:VAL:HG22	1.95	0.48
12:Cc:172:SER:OG	12:Cc:205:GLU:HB2	2.13	0.48
13:Cd:407:TRP:CE3	12:Ce:255:VAL:HG22	2.48	0.48
12:Cg:91:VAL:CG1	12:Cg:116:VAL:HG12	2.34	0.48
12:Cg:110:ALA:HA	12:Cg:113:ILE:HG22	1.94	0.48
13:Db:236:SER:O	13:Db:243:ARG:NH2	2.46	0.48
12:Dc:207:LEU:HB3	12:Dc:225:LEU:HD22	1.95	0.48
13:Dh:75:VAL:HG13	13:Dh:92:LEU:HB3	1.95	0.48
13:Dh:236:SER:O	13:Dh:243:ARG:NH2	2.46	0.48
1:0B:320:ILE:HD12	1:0B:327:LEU:HD22	1.95	0.48
1:0C:174:LEU:O	1:0C:178:GLU:HG2	2.12	0.48
1:0C:278:VAL:HG13	1:0C:285:LEU:HD23	1.94	0.48
1:0E:86:PRO:HA	1:0E:89:VAL:HG22	1.95	0.48
1:0E:218:VAL:HG12	1:0E:255:LYS:HB3	1.96	0.48
1:0E:240:SER:HB3	1:0E:243:LEU:HG	1.95	0.48
1:0G:355:ALA:O	1:0G:359:THR:HG23	2.14	0.48
1:0L:21:VAL:HG22	1:0L:49:LEU:HD13	1.96	0.48
1:0N:379:CYS:O	1:0N:383:LEU:HG	2.14	0.48
1:0R:280:LYS:HB3	1:0R:319:TYR:CE2	2.48	0.48
1:0R:283:PRO:HD3	47:6B:284:LEU:CD1	2.44	0.48
1:0T:206:VAL:HG13	1:0T:246:VAL:HG11	1.96	0.48
1:0T:282:THR:HB	1:0T:285:LEU:HD22	1.96	0.48
1:0V:168:ALA:O	1:0V:172:LEU:HG	2.14	0.48
1:0X:24:VAL:HG12	1:0X:64:ALA:HB1	1.94	0.48
1:1A:105:PHE:O	1:1A:108:ARG:HG2	2.13	0.48
1:1B:202:ALA:O	1:1B:206:VAL:HG23	2.14	0.48
1:1B:343:ALA:O	1:1B:346:GLU:C	2.57	0.48
2:1D:233:LEU:HB3	2:1D:234:PRO:HD3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1H:130:ALA:O	3:1H:134:ILE:HG12	2.13	0.48
3:1H:649:SER:HB2	3:1H:688:LEU:HD13	1.95	0.48
3:1I:789:LEU:HD11	3:1I:804:VAL:HB	1.95	0.48
4:1J:215:LEU:HB2	4:1J:252:CYS:HB2	1.94	0.48
6:1N:398:GLY:HA3	6:1N:406:VAL:HG21	1.96	0.48
7:1O:1619:VAL:HB	7:1O:1751:LEU:HD12	1.96	0.48
10:1R:365:VAL:H	12:Bc:337:ASN:CG	2.19	0.48
10:1S:139:GLU:CD	10:1S:140:VAL:HG13	2.38	0.48
12:1a:201:VAL:HG23	12:1a:301:CYS:HB2	1.95	0.48
13:1b:236:SER:O	13:1b:243:ARG:NH2	2.46	0.48
12:1c:207:LEU:O	12:1c:210:ILE:HG22	2.13	0.48
12:1e:391:ARG:HG3	13:1f:346:TRP:HB3	1.96	0.48
12:1e:396:HIS:CD2	13:1f:261:PRO:O	2.66	0.48
13:1f:233:GLN:HG3	13:1f:368:LEU:HD13	1.96	0.48
12:1g:183:TYR:OH	12:1g:388:MET:HB3	2.13	0.48
12:1g:207:LEU:O	12:1g:210:ILE:HG22	2.13	0.48
13:1h:76:ASP:HA	13:1h:79:ARG:HD2	1.94	0.48
13:1h:236:SER:O	13:1h:243:ARG:NH2	2.46	0.48
15:2H:153:UNK:CB	12:8g:276:ARG:HD3	2.43	0.48
24:2T:152:GLU:OE1	24:2T:157:GLU:HG3	2.14	0.48
24:2V:131:CYS:HB3	24:2V:151:PHE:HD1	1.79	0.48
12:2a:404:ASP:HB3	12:2a:407:GLU:OE1	2.13	0.48
13:2b:233:GLN:HG3	13:2b:368:LEU:HD13	1.96	0.48
12:2c:229:ILE:HA	12:2c:300:MET:HE1	1.96	0.48
13:2d:233:GLN:HG3	13:2d:368:LEU:HD13	1.96	0.48
12:2g:284:LEU:HD21	12:2g:362:LYS:HB2	1.94	0.48
13:2h:233:GLN:HG3	13:2h:368:LEU:HD13	1.96	0.48
30:3F:437:ILE:CG2	13:7d:159:VAL:CG2	2.86	0.48
30:3G:538:LEU:HD11	13:7h:117:LEU:HA	1.95	0.48
30:3G:729:LEU:HD21	13:6b:156:ARG:HD3	1.94	0.48
31:3I:399:GLU:HG2	13:8h:339:ARG:HD2	1.95	0.48
34:3N:251:LEU:HA	34:3N:481:LEU:HD13	1.96	0.48
34:3O:366:VAL:HG12	34:3Y:359:ARG:CD	2.43	0.48
34:3P:274:ILE:HG13	34:3P:275:ASN:N	2.28	0.48
34:3R:44:LYS:O	34:3R:48:HIS:ND1	2.47	0.48
34:3U:105:GLN:O	34:3U:109:LEU:HD23	2.13	0.48
34:3W:239:SER:OG	34:3Y:343:THR:HG23	2.13	0.48
12:3a:6:HIS:HD2	12:3a:134:GLN:HG3	1.78	0.48
12:3c:207:LEU:O	12:3c:210:ILE:HG22	2.13	0.48
12:3e:117:LEU:HA	12:3e:120:VAL:HG12	1.96	0.48
35:4C:346:VAL:HG23	1:0H:179:PRO:CD	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:4D:124:CYS:HB2	36:4D:127:ILE:HD13	1.95	0.48
37:4E:584:ALA:HA	43:5L:36:TYR:CA	2.43	0.48
37:4E:589:PRO:CG	43:5L:20:HIS:N	2.61	0.48
37:4F:1143:LEU:HD23	37:4F:1158:PRO:HD2	1.94	0.48
37:4F:1335:MET:CG	38:4N:32:GLU:CD	2.86	0.48
37:4G:422:TRP:CD1	37:4G:849:LEU:HB3	2.48	0.48
37:4H:918:GLN:NE2	37:4H:1516:PRO:HB2	2.29	0.48
37:4H:972:PHE:CE2	37:4H:973:HIS:C	2.91	0.48
37:4H:1196:GLU:HG3	37:4H:1276:THR:HB	1.96	0.48
37:4H:1333:VAL:CG1	38:4M:27:ALA:CB	2.91	0.48
38:4I:25:PRO:C	38:4I:28:VAL:N	2.61	0.48
38:4M:31:ALA:HA	38:4M:34:ALA:H	1.78	0.48
39:4S:22:LYS:HD2	43:5K:105:LEU:HD13	1.96	0.48
40:4U:700:GLN:HA	40:4U:724:LEU:HD23	1.95	0.48
41:4X:161:PHE:HA	41:4X:166:GLY:HA3	1.96	0.48
12:4e:172:SER:OG	12:4e:175:VAL:O	2.32	0.48
41:5D:166:GLY:O	41:5D:170:THR:N	2.45	0.48
42:5H:46:ARG:HA	42:5H:49:ILE:HG21	1.95	0.48
42:5H:49:ILE:CB	43:5L:144:TYR:HA	2.44	0.48
42:5H:91:TYR:CE2	43:5L:42:TYR:CB	2.92	0.48
42:5H:135:ARG:CA	43:5L:53:ASP:N	2.67	0.48
42:5H:136:HIS:CA	43:5L:50:ILE:N	2.77	0.48
42:5H:139:LEU:CA	43:5L:146:TYR:HA	2.44	0.48
43:5J:124:MET:HA	43:5J:127:VAL:HG12	1.95	0.48
43:5L:139:TYR:CZ	43:5L:143:MET:HE3	2.48	0.48
44:5S:28:ASP:O	44:5S:30:THR:HG23	2.13	0.48
12:5c:42:LEU:HD13	12:5c:356:ILE:HD11	1.96	0.48
12:5c:140:GLY:HA2	12:5c:184:ASN:HB2	1.95	0.48
13:5d:9:ILE:HD13	13:5d:150:GLY:HA2	1.96	0.48
13:5f:9:ILE:HD13	13:5f:150:GLY:HA2	1.96	0.48
12:5g:185:ALA:O	12:5g:189:VAL:HG13	2.13	0.48
47:6A:162:ASN:OD1	47:6A:164:ASN:N	2.47	0.48
47:6A:176:THR:O	47:6A:180:ILE:HG13	2.13	0.48
47:6A:594:LEU:HD11	47:6A:606:LYS:HD2	1.95	0.48
47:6A:1197:PHE:HE2	47:6A:1472:LEU:CD1	2.27	0.48
47:6A:1271:VAL:HA	47:6A:1274:ASP:OD2	2.13	0.48
47:6B:290:GLY:N	3:6D:197:SER:N	2.60	0.48
47:6B:1648:ILE:HD11	47:6B:1769:ARG:NH2	2.28	0.48
48:6E:115:THR:HA	48:6E:143:LEU:HA	1.95	0.48
48:6F:208:ALA:O	48:6F:231:GLN:HB2	2.14	0.48
48:6F:847:LEU:HD11	48:6F:952:LEU:CD1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:6F:900:GLN:HE21	48:6F:922:PRO:HA	1.78	0.48
49:6H:14:LYS:HE3	49:6H:14:LYS:HB3	1.58	0.48
49:6H:152:ALA:O	49:6H:156:VAL:HG23	2.14	0.48
49:6I:61:ASN:HB3	49:6I:104:LYS:HB3	1.96	0.48
49:6I:278:TYR:HB2	49:6I:281:LYS:HB2	1.95	0.48
49:6J:152:ALA:O	49:6J:156:VAL:HG23	2.14	0.48
49:6J:204:ALA:HA	49:6J:305:LYS:HD2	1.96	0.48
51:6M:1902:MET:HE3	51:6M:1902:MET:HB3	1.59	0.48
51:6M:2077:LEU:O	51:6M:2078:HIS:O	2.31	0.48
51:6M:2078:HIS:O	51:6M:2079:ALA:C	2.56	0.48
51:6N:2077:LEU:O	51:6N:2078:HIS:O	2.31	0.48
12:6a:128:ASP:N	12:6a:128:ASP:OD1	2.47	0.48
13:7b:222:PRO:HD2	12:7c:324:LYS:HG2	1.96	0.48
13:7b:236:SER:O	13:7b:243:ARG:NH2	2.46	0.48
12:7c:110:ALA:HA	12:7c:113:ILE:HG22	1.95	0.48
12:7c:246:LEU:HB3	12:7c:353:VAL:HG22	1.94	0.48
12:7e:272:PRO:HD3	12:7e:364:SER:HA	1.95	0.48
12:7g:99:ASN:HA	12:7g:142:GLY:H	1.79	0.48
12:7g:237:THR:OG1	12:7g:241:ARG:NH1	2.47	0.48
12:7g:341:PHE:HB3	12:7g:348:ASN:ND2	2.29	0.48
13:8b:268:MET:HB3	13:8b:378:ILE:HG23	1.95	0.48
12:8c:116:VAL:O	12:8c:120:VAL:HG23	2.14	0.48
12:8c:189:VAL:HG21	12:8c:378:PHE:HE1	1.79	0.48
12:8c:201:VAL:HG23	12:8c:301:CYS:HB2	1.95	0.48
12:8e:99:ASN:HA	12:8e:142:GLY:H	1.77	0.48
13:8h:200:VAL:HG23	13:8h:256:GLN:HG2	1.96	0.48
13:8h:236:SER:O	13:8h:243:ARG:NH2	2.46	0.48
12:9a:404:ASP:OD1	12:9a:405:GLU:N	2.47	0.48
12:9a:415:MET:O	12:9a:419:VAL:HG23	2.13	0.48
13:9b:236:SER:O	13:9b:243:ARG:NH2	2.46	0.48
12:9c:68:LEU:HB3	12:9c:96:GLY:HA2	1.96	0.48
12:9e:174:LYS:HZ2	13:9f:333:ALA:HA	1.78	0.48
12:9e:267:MET:HE1	12:9e:305:PRO:HG3	1.94	0.48
13:Ab:236:SER:O	13:Ab:243:ARG:NH2	2.46	0.48
13:Ah:236:SER:O	13:Ah:243:ARG:NH2	2.46	0.48
12:Bc:52:ASN:HD22	12:Bc:86:ARG:NH2	2.12	0.48
12:Bg:341:PHE:HB3	12:Bg:348:ASN:ND2	2.28	0.48
13:Cb:210:TYR:CG	12:Cc:324:LYS:HD3	2.47	0.48
12:Cc:311:LEU:HD23	12:Cc:342:VAL:HG21	1.96	0.48
12:Cc:6:HIS:HD2	12:Cc:134:GLN:HG3	1.78	0.48
13:Ch:268:MET:HB3	13:Ch:378:ILE:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Dd:212:ILE:O	13:Dd:216:SER:OG	2.25	0.48
13:Df:212:ILE:O	13:Df:216:SER:OG	2.25	0.48
12:Dg:21:TRP:CZ3	12:Dg:61:PRO:HB3	2.49	0.48
1:0J:400:CYS:O	1:0J:404:LEU:HG	2.13	0.48
1:0I:154:GLY:HA2	1:0I:197:HIS:NE2	2.28	0.48
1:0I:307:GLY:HA2	1:0I:310:ARG:HD3	1.95	0.48
1:0A:238:LYS:HE3	1:0A:239:HIS:CD2	2.49	0.48
1:0A:248:VAL:HG12	1:0A:253:PHE:HE2	1.77	0.48
1:0B:248:VAL:HG21	1:0B:285:LEU:HD22	1.95	0.48
1:0B:253:PHE:HE1	1:0B:278:VAL:HG11	1.79	0.48
1:0E:30:ASN:HB2	1:0E:33:ASN:HB2	1.96	0.48
1:0G:80:VAL:HG22	1:0G:85:LEU:HD11	1.96	0.48
1:0G:110:VAL:HG12	1:0G:117:LEU:HB3	1.95	0.48
1:0M:168:ALA:H	1:0M:171:LEU:HD12	1.78	0.48
1:0M:248:VAL:HA	1:0M:253:PHE:HE2	1.77	0.48
1:0R:353:LYS:HB2	1:0R:396:LEU:HD13	1.96	0.48
1:0T:27:MET:HB2	1:0T:37:LEU:HD11	1.96	0.48
1:0T:127:LEU:HD11	1:0T:163:VAL:HG12	1.95	0.48
1:0T:324:SER:HB3	1:0T:327:LEU:HG	1.95	0.48
1:0V:18:VAL:O	1:0V:22:THR:HG23	2.14	0.48
1:0V:33:ASN:O	1:0V:37:LEU:HG	2.13	0.48
1:0Y:224:LYS:O	1:0Y:228:GLN:HG2	2.13	0.48
1:1B:153:ALA:O	1:1B:197:HIS:CD2	2.67	0.48
1:1B:219:ILE:CG1	1:1B:255:LYS:HD3	2.36	0.48
3:1H:545:SER:N	3:1H:550:PHE:HE2	2.12	0.48
3:1H:812:VAL:CG1	3:1H:822:LEU:HD22	2.44	0.48
3:1I:512:LEU:HD23	3:1I:524:ARG:NH1	2.21	0.48
3:1I:616:TYR:HH	3:1I:629:TRP:CD1	2.30	0.48
5:1L:404:PRO:HB3	5:1L:427:PRO:HD3	1.94	0.48
6:1N:424:PHE:HB3	6:1N:433:ILE:HG12	1.96	0.48
10:1S:374:HIS:CE1	13:Af:94:SER:HB3	2.49	0.48
12:1g:201:VAL:HG12	12:1g:266:PHE:O	2.14	0.48
12:1g:341:PHE:HB3	12:1g:348:ASN:ND2	2.28	0.48
14:2F:125:THR:OG1	13:Ab:57:GLY:O	2.21	0.48
24:2U:139:VAL:HG11	24:2U:146:ALA:HA	1.95	0.48
24:2U:151:PHE:C	13:Dd:176:GLN:HE21	2.14	0.48
24:2V:175:ALA:HB3	13:Df:339:ARG:NE	2.29	0.48
12:2a:116:VAL:O	12:2a:120:VAL:HG12	2.14	0.48
12:2e:209:ASP:CG	12:2e:213:ARG:HH21	2.21	0.48
13:2f:76:ASP:HA	13:2f:79:ARG:HD2	1.95	0.48
13:2f:233:GLN:HG3	13:2f:368:LEU:HD13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:3K:415:ILE:HG22	32:3K:419:LYS:HE3	1.95	0.48
34:3M:261:ARG:HE	34:3M:470:SER:CB	2.27	0.48
34:3N:324:HIS:HB3	34:3N:328:MET:CE	2.39	0.48
34:3N:436:ARG:O	34:3N:440:GLU:HG2	2.13	0.48
34:3O:361:LEU:HD23	34:3O:362:PRO:C	2.39	0.48
34:3O:362:PRO:HG2	34:3O:367:GLY:C	2.39	0.48
34:3S:457:ALA:HA	34:3S:460:ARG:CZ	2.44	0.48
34:3T:477:GLU:OE2	34:3T:477:GLU:HA	2.14	0.48
34:3T:490:GLN:HG3	34:3T:494:GLN:NE2	2.28	0.48
34:3U:259:MET:O	34:3U:262:THR:HG22	2.13	0.48
34:3U:349:LEU:HD23	34:3U:382:LEU:HD13	1.95	0.48
34:3W:250:ARG:NH2	37:4H:1608:GLU:OE1	2.46	0.48
34:3W:324:HIS:O	34:3W:328:MET:HG2	2.14	0.48
34:3X:486:ARG:HD3	37:4F:1795:ARG:HH22	1.77	0.48
34:3Y:44:LYS:O	34:3Y:48:HIS:ND1	2.47	0.48
13:3b:178:SER:OG	12:3c:347:ASN:ND2	2.47	0.48
34:4A:270:ILE:HA	34:4A:273:ARG:HG2	1.96	0.48
34:4B:332:GLU:HG3	34:4B:336:ARG:CZ	2.43	0.48
35:4C:448:VAL:HG22	35:4C:453:LYS:HG3	1.95	0.48
35:4C:945:LEU:CD1	37:4E:724:LEU:HG	2.44	0.48
35:4C:1082:ARG:NH2	37:4E:1816:VAL:HG12	2.28	0.48
37:4E:1165:ARG:HH11	37:4E:1184:TRP:HE1	1.60	0.48
37:4F:518:LEU:HD23	37:4F:535:ALA:HB2	1.95	0.48
37:4F:793:THR:OG1	38:4K:70:LYS:NZ	2.38	0.48
37:4F:1074:GLN:NE2	38:4N:45:ALA:H	2.11	0.48
37:4F:1723:TYR:CE1	37:4F:1736:ARG:HD3	2.48	0.48
37:4G:514:TYR:CD1	37:4G:542:ARG:NH1	2.80	0.48
37:4G:532:VAL:O	37:4G:536:LEU:HG	2.13	0.48
37:4G:1075:VAL:C	38:4L:38:VAL:CG2	2.82	0.48
37:4G:1083:ILE:N	38:4L:38:VAL:H	2.12	0.48
38:4J:45:ALA:C	38:4J:47:ALA:N	2.72	0.48
38:4K:29:LYS:CA	38:4K:32:GLU:HB3	2.44	0.48
38:4K:49:ILE:CG2	38:4N:72:ARG:HE	2.21	0.48
38:4N:31:ALA:HA	38:4N:34:ALA:H	1.78	0.48
40:4T:700:GLN:HA	40:4T:724:LEU:HD23	1.96	0.48
40:4U:656:ALA:HB1	40:4U:833:PHE:HB2	1.94	0.48
40:4V:35:ARG:NH2	44:5T:60:ASP:OD1	2.47	0.48
40:4V:321:GLU:O	40:4V:325:VAL:HG23	2.14	0.48
12:4e:66:MET:SD	12:4e:116:VAL:HG21	2.53	0.48
12:4e:404:ASP:OD2	12:4e:405:GLU:N	2.47	0.48
13:4h:9:ILE:HD13	13:4h:150:GLY:HA2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:5A:165:SER:N	43:5L:165:LEU:HD22	2.27	0.48
41:5C:166:GLY:O	41:5C:170:THR:N	2.45	0.48
43:5K:87:ILE:HG12	43:5K:146:TYR:CD2	2.49	0.48
43:5K:143:MET:C	43:5K:145:SER:H	2.22	0.48
44:5Q:32:THR:OG1	44:5Q:35:GLU:HG2	2.14	0.48
44:5R:93:PHE:CZ	44:5R:145:PHE:CD2	3.01	0.48
13:5f:200:VAL:HG23	13:5f:256:GLN:HG2	1.96	0.48
13:5f:236:SER:O	13:5f:243:ARG:NH2	2.46	0.48
47:6A:1165:HIS:CE1	47:6A:1169:LYS:HD2	2.49	0.48
47:6A:1221:PHE:HE2	47:6A:1502:CYS:HG	1.56	0.48
47:6A:1252:ALA:O	47:6A:1256:LEU:HG	2.14	0.48
47:6A:1254:TRP:HA	47:6A:1257:CYS:SG	2.54	0.48
47:6B:111:HIS:CD2	47:6B:112:MET:N	2.81	0.48
47:6B:176:THR:O	47:6B:180:ILE:HG13	2.13	0.48
47:6B:399:LYS:HD3	3:6D:994:GLN:OE1	2.14	0.48
47:6B:406:ARG:N	3:6D:1005:PRO:HB3	2.28	0.48
47:6B:912:ASP:OD2	47:6B:913:GLY:N	2.42	0.48
47:6B:1197:PHE:HE2	47:6B:1472:LEU:CD1	2.27	0.48
47:6B:1252:ALA:O	47:6B:1256:LEU:HG	2.14	0.48
48:6E:594:ALA:HA	48:6E:822:ARG:NH2	2.28	0.48
48:6E:996:CYS:SG	48:6E:998:ARG:HB3	2.54	0.48
48:6F:919:LEU:HG	48:6F:920:GLN:O	2.13	0.48
49:6G:152:ALA:O	49:6G:156:VAL:HG23	2.14	0.48
49:6G:204:ALA:HA	49:6G:305:LYS:HD2	1.96	0.48
49:6G:411:VAL:HG13	49:6G:434:SER:HA	1.96	0.48
49:6I:152:ALA:O	49:6I:156:VAL:HG23	2.14	0.48
50:6K:521:ILE:O	50:6K:525:VAL:HG23	2.14	0.48
50:6L:444:VAL:HG11	50:6L:480:ILE:HD13	1.95	0.48
50:6L:521:ILE:O	50:6L:525:VAL:HG23	2.14	0.48
51:6N:2078:HIS:O	51:6N:2079:ALA:C	2.56	0.48
13:6b:233:GLN:HG3	13:6b:368:LEU:HD13	1.96	0.48
13:7b:75:VAL:HG13	13:7b:92:LEU:HB3	1.95	0.48
12:7e:219:THR:HG23	13:7f:324:VAL:HG11	1.95	0.48
12:7g:20:PHE:HA	12:7g:230:SER:HB2	1.96	0.48
12:8a:154:LYS:HA	12:8a:157:GLU:OE2	2.14	0.48
13:8b:233:GLN:HG3	13:8b:368:LEU:HD13	1.96	0.48
13:8d:137:VAL:O	13:8d:168:GLY:HA2	2.14	0.48
12:8e:91:VAL:CG2	12:8e:116:VAL:HG12	2.44	0.48
13:8f:137:VAL:O	13:8f:168:GLY:HA2	2.14	0.48
12:8g:67:ASP:O	12:8g:92:PHE:HA	2.14	0.48
12:9c:31:ASP:HB2	12:9c:32:PRO:HD2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:9c:139:LEU:HD22	12:9c:188:SER:HB3	1.96	0.48
12:9c:173:PRO:HA	12:9c:380:ARG:HD2	1.96	0.48
12:9g:139:LEU:HD22	12:9g:188:SER:HB3	1.96	0.48
12:Ac:330:MET:HB3	12:Ac:349:VAL:HG11	1.96	0.48
13:Ad:200:VAL:HG23	13:Ad:256:GLN:HG2	1.96	0.48
13:Af:236:SER:O	13:Af:243:ARG:NH2	2.46	0.48
12:Ag:207:LEU:O	12:Ag:210:ILE:HG22	2.13	0.48
12:Ba:139:LEU:HD12	12:Ba:170:VAL:HG22	1.95	0.48
12:Bc:21:TRP:CZ3	12:Bc:61:PRO:HB3	2.49	0.48
12:Ca:313:ALA:O	12:Ca:349:VAL:HA	2.14	0.48
13:Cb:200:VAL:HG23	13:Cb:256:GLN:HG2	1.96	0.48
12:Cc:68:LEU:HB3	12:Cc:96:GLY:HA2	1.95	0.48
13:Cd:200:VAL:HG23	13:Cd:256:GLN:HG2	1.96	0.48
13:Cf:200:VAL:HG23	13:Cf:256:GLN:HG2	1.96	0.48
12:Dc:229:ILE:HA	12:Dc:300:MET:HE1	1.96	0.48
13:Df:233:GLN:HG3	13:Df:368:LEU:HD13	1.96	0.48
13:Dh:233:GLN:HG3	13:Dh:368:LEU:HD13	1.96	0.48
13:Dh:268:MET:HB3	13:Dh:378:ILE:HG23	1.95	0.48
1:0I:34:ILE:HA	1:0I:37:LEU:HD12	1.95	0.48
1:0K:240:SER:HB3	1:0K:243:LEU:HG	1.96	0.48
1:0A:24:VAL:HG12	1:0A:64:ALA:HB1	1.94	0.48
1:0A:31:PRO:HB2	47:6A:251:LEU:HD11	1.95	0.48
1:0A:34:ILE:HG23	1:0A:68:LEU:CD2	2.40	0.48
1:0A:45:LEU:C	1:0A:48:PRO:HD2	2.39	0.48
1:0A:248:VAL:HG23	47:6A:330:MET:HE1	1.94	0.48
1:0C:167:GLY:C	1:0C:169:VAL:H	2.21	0.48
1:0F:45:LEU:C	1:0F:48:PRO:HD2	2.39	0.48
1:0O:109:ALA:O	1:0O:113:HIS:CD2	2.67	0.48
1:0O:328:ALA:O	1:0O:331:VAL:HG22	2.14	0.48
1:0Q:154:GLY:HA2	1:0Q:197:HIS:NE2	2.28	0.48
1:0R:379:CYS:O	1:0R:383:LEU:HG	2.14	0.48
1:0U:379:CYS:O	1:0U:383:LEU:HG	2.14	0.48
1:0V:12:ARG:NH1	1:0W:16:GLU:OE1	2.46	0.48
1:0X:34:ILE:HG21	1:0X:71:TYR:CB	2.44	0.48
1:0X:285:LEU:O	1:0X:289:VAL:HG23	2.13	0.48
1:1A:182:SER:O	1:1A:186:ILE:HG12	2.12	0.48
1:1A:355:ALA:O	1:1A:359:THR:HG23	2.14	0.48
1:1B:168:ALA:O	1:1B:172:LEU:HG	2.14	0.48
1:1B:416:ALA:O	1:1B:420:LEU:HD13	2.14	0.48
1:1C:279:ALA:HB1	1:1C:320:ILE:HG22	1.95	0.48
2:1D:134:SER:OG	2:1D:135:VAL:O	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:49:GLN:CG	2:1E:51:VAL:HG22	2.44	0.48
2:1F:100:VAL:HG12	2:1F:102:CYS:H	1.78	0.48
2:1F:146:ALA:O	2:1F:150:ILE:HG13	2.13	0.48
4:1J:196:PHE:CE2	4:1J:217:VAL:HG11	2.49	0.48
4:1K:196:PHE:CE2	4:1K:217:VAL:HG11	2.49	0.48
4:1K:215:LEU:HB2	4:1K:252:CYS:HB2	1.94	0.48
5:1L:406:ARG:NH1	5:1L:454:MET:SD	2.87	0.48
6:1N:142:PHE:HB2	8:1P:762:LEU:HB2	1.95	0.48
6:1N:820:PRO:HG2	6:1N:823:GLY:HA3	1.95	0.48
6:1N:1940:PRO:HG2	6:1N:1943:LEU:HD23	1.96	0.48
10:1R:104:ILE:HG12	10:1R:109:ARG:HD3	1.96	0.48
10:1R:171:PRO:HB2	12:Ac:431:GLU:OE2	2.14	0.48
13:1b:233:GLN:HG3	13:1b:368:LEU:HD13	1.96	0.48
13:1d:233:GLN:HG3	13:1d:368:LEU:HD13	1.96	0.48
13:1d:240:ALA:O	13:1d:356:ASN:ND2	2.47	0.48
12:1e:201:VAL:HG23	12:1e:301:CYS:HB2	1.96	0.48
13:1f:403:ALA:HB2	12:1g:344:TRP:HZ3	1.79	0.48
13:1h:233:GLN:HG3	13:1h:368:LEU:HD13	1.96	0.48
14:2F:85:PHE:HB2	12:Ca:276:ARG:HH21	1.78	0.48
15:2H:66:UNK:N	12:Bg:92:PHE:CE2	2.82	0.48
13:2f:236:SER:O	13:2f:243:ARG:NH2	2.46	0.48
28:3C:525:ALA:HA	13:4h:309:HIS:CD2	2.49	0.48
31:3H:123:TYR:CE1	31:3H:197:GLU:HG2	2.47	0.48
31:3I:150:GLU:HA	31:3I:153:GLU:CD	2.39	0.48
31:3I:154:LEU:HB3	31:3I:157:ARG:HH21	1.78	0.48
33:3L:21:TYR:HA	33:3L:24:GLU:OE2	2.13	0.48
33:3L:44:PHE:CD2	33:3L:47:LEU:HG	2.49	0.48
33:3L:190:LYS:HD3	12:7e:423:GLN:HG2	1.96	0.48
34:3M:503:ASN:HA	34:3M:506:GLU:OE2	2.13	0.48
34:3O:74:LEU:HB3	34:3O:313:HIS:CD2	2.49	0.48
34:3P:37:ASN:O	34:3P:41:THR:HG23	2.13	0.48
34:3R:328:MET:O	34:3R:332:GLU:HG2	2.14	0.48
34:3S:325:ASP:O	34:3S:329:THR:HG23	2.13	0.48
34:3U:312:TRP:CG	34:3U:422:HIS:HE2	2.32	0.48
34:3X:99:ARG:NH2	34:4A:235:LEU:HA	2.29	0.48
12:3a:219:THR:O	12:3a:219:THR:HG23	2.14	0.48
13:3h:233:GLN:HG3	13:3h:368:LEU:HD13	1.96	0.48
34:4A:360:VAL:C	34:4A:361:LEU:HD22	2.39	0.48
35:4C:1056:PHE:CD1	35:4C:1073:VAL:HG22	2.48	0.48
36:4D:48:ASN:OD1	36:4D:188:ARG:HD2	2.14	0.48
37:4E:880:ILE:HB	37:4E:926:SER:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:534:HIS:HB2	37:4F:687:MET:HE3	1.96	0.48
37:4F:776:HIS:CD2	37:4F:1783:LEU:HD12	2.48	0.48
37:4F:974:VAL:CG1	37:4F:975:VAL:N	2.75	0.48
37:4F:1079:SER:OG	37:4F:1081:HIS:HD2	1.95	0.48
37:4F:1324:THR:O	37:4F:1331:TRP:HA	2.14	0.48
37:4F:1334:GLU:O	37:4F:1334:GLU:CG	2.57	0.48
37:4G:529:VAL:HG12	38:4I:62:MET:SD	2.54	0.48
37:4G:539:GLN:O	37:4G:542:ARG:HB2	2.13	0.48
37:4G:685:ALA:HA	37:4G:688:LEU:HD12	1.96	0.48
37:4G:691:MET:CA	38:4I:59:PRO:CG	2.76	0.48
37:4G:790:GLU:O	37:4G:791:ALA:C	2.56	0.48
37:4G:1319:ASP:HB3	38:4L:29:LYS:CE	2.44	0.48
37:4G:1323:ILE:CB	38:4L:26:GLU:CD	2.86	0.48
37:4H:1072:ALA:CB	38:4M:41:LYS:CE	2.89	0.48
37:4H:1333:VAL:O	37:4H:1340:PRO:C	2.56	0.48
38:4M:32:GLU:CG	38:4M:33:LYS:HZ2	2.27	0.48
39:4Q:126:LYS:HA	39:4Q:126:LYS:HD2	1.56	0.48
40:4U:552:TYR:O	40:4U:555:LEU:HG	2.13	0.48
41:4W:168:GLY:H	43:5L:154:ALA:HB3	1.79	0.48
12:4a:60:VAL:HG11	12:4a:86:ARG:NH2	2.29	0.48
12:4e:6:HIS:HD2	12:4e:134:GLN:HG3	1.79	0.48
13:4f:9:ILE:HD13	13:4f:150:GLY:HA2	1.96	0.48
13:4f:212:ILE:O	13:4f:216:SER:OG	2.25	0.48
13:4f:222:PRO:O	12:4g:322:SER:OG	2.32	0.48
41:5A:142:ARG:CA	43:5L:167:PRO:HA	2.44	0.48
41:5D:135:GLU:N	41:5D:148:VAL:O	2.47	0.48
42:5H:135:ARG:CA	42:5H:135:ARG:O	2.49	0.48
43:5I:139:TYR:CZ	43:5I:143:MET:HE3	2.48	0.48
43:5J:87:ILE:HG12	43:5J:146:TYR:CD2	2.49	0.48
43:5J:120:SER:OG	43:5J:121:PHE:N	2.47	0.48
43:5K:120:SER:OG	43:5K:121:PHE:N	2.47	0.48
43:5K:124:MET:HA	43:5K:127:VAL:HG12	1.95	0.48
43:5K:143:MET:C	43:5K:145:SER:N	2.70	0.48
44:5U:11:GLU:H	44:5U:11:GLU:CD	2.22	0.48
44:5V:93:PHE:HB3	44:5V:142:TYR:CE1	2.49	0.48
13:5b:200:VAL:HG23	13:5b:256:GLN:HG2	1.96	0.48
13:5d:200:VAL:HG23	13:5d:256:GLN:HG2	1.96	0.48
12:5e:313:ALA:O	12:5e:349:VAL:HA	2.14	0.48
12:5g:171:PRO:HG3	12:5g:181:GLU:HG2	1.95	0.48
13:5h:200:VAL:HG23	13:5h:256:GLN:HG2	1.96	0.48
47:6A:284:LEU:O	47:6A:287:GLY:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:1810:ILE:HG22	47:6A:1915:LEU:HD11	1.96	0.48
47:6B:566:LEU:HD12	47:6B:1158:ARG:NH1	2.18	0.48
49:6G:30:GLU:CD	49:6I:44:PRO:HG2	2.38	0.48
49:6I:204:ALA:HA	49:6I:305:LYS:HD2	1.96	0.48
50:6K:50:ARG:HD3	50:6K:531:TYR:HB3	1.96	0.48
50:6L:154:PHE:HD2	50:6L:158:GLN:CD	2.21	0.48
51:6N:1362:ARG:HG3	51:6N:1373:HIS:CD2	2.49	0.48
13:6d:233:GLN:HG3	13:6d:368:LEU:HD13	1.96	0.48
13:6f:233:GLN:HG3	13:6f:368:LEU:HD13	1.96	0.48
13:6h:233:GLN:HG3	13:6h:368:LEU:HD13	1.96	0.48
12:7a:278:SER:HA	12:7a:281:TYR:HD2	1.79	0.48
12:7c:1:MET:SD	12:7c:2:ARG:HG3	2.54	0.48
12:7c:176:SER:HB2	12:7c:181:GLU:OE1	2.13	0.48
13:7d:233:GLN:HG3	13:7d:368:LEU:HD13	1.96	0.48
12:7e:60:VAL:HG21	12:7e:86:ARG:HB2	1.94	0.48
12:7e:309:ARG:NH2	12:7e:343:GLU:CD	2.71	0.48
12:7g:330:MET:O	12:7g:333:VAL:HG12	2.14	0.48
12:8a:311:LEU:CD2	12:8a:372:THR:HG23	2.43	0.48
13:8b:137:VAL:O	13:8b:168:GLY:HA2	2.14	0.48
13:8d:233:GLN:HG3	13:8d:368:LEU:HD13	1.96	0.48
13:8d:236:SER:O	13:8d:243:ARG:NH2	2.46	0.48
12:8e:275:SER:HB3	12:8e:278:SER:HB3	1.95	0.48
13:8f:233:GLN:HG3	13:8f:368:LEU:HD13	1.96	0.48
13:8h:9:ILE:HD13	13:8h:150:GLY:HA2	1.96	0.48
13:9d:236:SER:O	13:9d:243:ARG:NH2	2.46	0.48
13:9h:75:VAL:HG13	13:9h:92:LEU:HB3	1.95	0.48
12:Aa:208:TYR:HA	12:Aa:211:CYS:SG	2.54	0.48
12:Ac:284:LEU:HD23	12:Ac:362:LYS:HB3	1.95	0.48
13:Ad:236:SER:O	13:Ad:243:ARG:NH2	2.46	0.48
12:Ae:21:TRP:CD1	12:Ae:85:PHE:HE1	2.32	0.48
13:Bb:76:ASP:HA	13:Bb:79:ARG:HD2	1.95	0.48
13:Bb:137:VAL:O	13:Bb:168:GLY:HA2	2.14	0.48
13:Bd:137:VAL:O	13:Bd:168:GLY:HA2	2.14	0.48
13:Bd:200:VAL:HG23	13:Bd:256:GLN:HG2	1.96	0.48
13:Bf:137:VAL:O	13:Bf:168:GLY:HA2	2.14	0.48
13:Bf:200:VAL:HG23	13:Bf:256:GLN:HG2	1.96	0.48
13:Bh:137:VAL:O	13:Bh:168:GLY:HA2	2.14	0.48
13:Cb:137:VAL:O	13:Cb:168:GLY:HA2	2.14	0.48
13:Cd:137:VAL:O	13:Cd:168:GLY:HA2	2.14	0.48
13:Cf:137:VAL:O	13:Cf:168:GLY:HA2	2.14	0.48
13:Ch:200:VAL:HG23	13:Ch:256:GLN:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Da:60:VAL:CG1	12:Da:86:ARG:CZ	2.91	0.48
12:Da:395:LEU:HG	12:Da:405:GLU:OE2	2.14	0.48
13:Dd:233:GLN:HG3	13:Dd:368:LEU:HD13	1.96	0.48
12:De:178:THR:HA	13:Df:352:LYS:HD3	1.94	0.48
13:Df:75:VAL:HG13	13:Df:92:LEU:HB3	1.95	0.48
1:0H:248:VAL:HG11	1:0H:285:LEU:HG	1.95	0.48
1:0J:153:ALA:O	1:0J:197:HIS:CD2	2.67	0.48
1:0B:142:LYS:HE3	1:0B:178:GLU:CD	2.39	0.48
1:0B:379:CYS:O	1:0B:383:LEU:HG	2.13	0.48
1:0D:169:VAL:HG13	1:0D:170:PRO:HD3	1.95	0.48
1:0F:245:GLU:HA	1:0F:248:VAL:HG22	1.95	0.48
1:0L:231:CYS:O	1:0L:235:GLN:HG2	2.14	0.48
1:0M:210:ALA:O	1:0M:214:LEU:HG	2.14	0.48
1:0N:182:SER:O	1:0N:186:ILE:HG12	2.14	0.48
1:0Q:38:GLN:HE22	1:0Q:68:LEU:HD22	1.78	0.48
1:0Q:202:ALA:O	1:0Q:206:VAL:HG23	2.14	0.48
1:0S:169:VAL:H	1:0S:170:PRO:HD2	1.79	0.48
1:0Y:85:LEU:O	1:0Y:89:VAL:HG13	2.14	0.48
1:0Y:142:LYS:HE3	1:0Y:178:GLU:CD	2.39	0.48
1:0Y:248:VAL:HG21	1:0Y:285:LEU:HD22	1.94	0.48
1:0Z:167:GLY:C	1:0Z:169:VAL:H	2.21	0.48
1:0Z:353:LYS:HD3	1:0Z:386:LEU:HD22	1.95	0.48
1:1A:169:VAL:H	1:1A:170:PRO:HD2	1.79	0.48
1:1A:302:ILE:HG23	1:1A:310:ARG:HE	1.79	0.48
1:1C:294:GLY:O	1:1C:298:LEU:HG	2.14	0.48
2:1D:158:THR:HG23	2:1D:161:VAL:HB	1.95	0.48
2:1F:14:VAL:CG1	2:1F:18:LEU:HD13	2.43	0.48
2:1G:212:THR:O	2:1G:216:THR:HG23	2.13	0.48
3:1H:944:GLU:HA	3:1H:947:LEU:HD12	1.96	0.48
5:1L:600:ARG:NH2	5:1L:602:VAL:HG22	2.28	0.48
5:1M:406:ARG:NH1	5:1M:454:MET:SD	2.87	0.48
5:1M:600:ARG:NH2	5:1M:602:VAL:HG22	2.28	0.48
6:1N:1831:ALA:C	6:1N:1833:LYS:H	2.21	0.48
6:1N:2174:ALA:HA	6:1N:2500:SER:OG	2.13	0.48
7:1O:2900:LEU:HD23	8:1P:778:PRO:HD2	1.96	0.48
10:1S:112:LYS:HD2	12:9g:406:MET:HB3	1.96	0.48
13:1b:137:VAL:O	13:1b:168:GLY:HA2	2.14	0.48
12:1c:41:ASP:OD1	12:1c:41:ASP:N	2.46	0.48
13:1d:137:VAL:O	13:1d:168:GLY:HA2	2.14	0.48
13:1d:212:ILE:O	13:1d:216:SER:OG	2.25	0.48
13:1d:236:SER:O	13:1d:243:ARG:NH2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1f:137:VAL:O	13:1f:168:GLY:HA2	2.14	0.48
13:1h:240:ALA:O	13:1h:356:ASN:ND2	2.47	0.48
14:2F:48:PRO:HD2	13:Db:357:TYR:O	2.14	0.48
15:2H:137:UNK:CB	12:8g:77:ARG:HH21	2.26	0.48
23:2R:59:UNK:CB	13:2b:113:GLU:HB3	2.44	0.48
24:2T:185:ALA:HA	24:2T:188:ASN:ND2	2.24	0.48
12:2a:23:VAL:HA	12:2a:26:ASP:OD2	2.14	0.48
13:2b:236:SER:O	13:2b:243:ARG:NH2	2.46	0.48
13:2h:236:SER:O	13:2h:243:ARG:NH2	2.46	0.48
30:3F:412:ALA:HB2	12:7e:157:GLU:HG2	1.96	0.48
30:3F:506:ARG:CG	12:7a:402:GLY:HA3	2.43	0.48
31:3I:144:ILE:CD1	31:3I:179:LEU:HD11	2.44	0.48
33:3L:140:HIS:ND1	33:3L:162:GLU:HA	2.29	0.48
34:3M:276:GLU:HG3	34:3M:452:HIS:CD2	2.49	0.48
34:3P:312:TRP:CZ3	34:3P:419:LEU:HB2	2.49	0.48
34:3R:352:LEU:HD11	34:3R:356:PHE:HE2	1.79	0.48
34:3S:378:SER:O	34:3S:382:LEU:HG	2.13	0.48
34:3T:301:HIS:O	34:3T:304:SER:OG	2.29	0.48
34:3T:481:LEU:O	34:3T:484:GLU:HG3	2.14	0.48
34:3V:234:ARG:C	34:3V:235:LEU:HD23	2.39	0.48
34:3V:360:VAL:C	34:3V:361:LEU:HD22	2.39	0.48
34:3W:327:VAL:HG11	34:3W:404:HIS:CD2	2.49	0.48
34:3Y:500:TYR:CE2	34:3Y:504:LEU:HD11	2.49	0.48
34:3Z:122:GLN:NE2	34:3Z:372:GLN:HE21	2.12	0.48
34:3Z:267:GLU:O	34:3Z:270:ILE:HG12	2.13	0.48
34:3Z:276:GLU:CG	34:3Z:456:LEU:HB2	2.43	0.48
12:3a:186:THR:HG21	12:3a:385:PHE:CE1	2.49	0.48
13:3b:137:VAL:O	13:3b:168:GLY:HA2	2.14	0.48
13:3b:268:MET:HB3	13:3b:378:ILE:HG23	1.95	0.48
13:3d:268:MET:HB3	13:3d:378:ILE:HG23	1.95	0.48
12:3e:174:LYS:HD3	12:3e:205:GLU:OE1	2.13	0.48
13:3f:75:VAL:HG13	13:3f:92:LEU:HB3	1.95	0.48
13:3f:137:VAL:O	13:3f:168:GLY:HA2	2.14	0.48
13:3f:233:GLN:HG3	13:3f:368:LEU:HD13	1.96	0.48
13:3f:268:MET:HB3	13:3f:378:ILE:HG23	1.95	0.48
12:3g:31:ASP:HB2	12:3g:32:PRO:HD2	1.96	0.48
12:3g:290:THR:HG1	12:3g:294:TRP:CD1	2.31	0.48
13:3h:240:ALA:O	13:3h:356:ASN:ND2	2.47	0.48
13:3h:268:MET:HB3	13:3h:378:ILE:HG23	1.95	0.48
34:4B:327:VAL:HG11	34:4B:404:HIS:CD2	2.49	0.48
34:4B:453:ARG:O	34:4B:456:LEU:HG	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4C:510:LEU:HD12	35:4C:544:VAL:HG22	1.96	0.48
36:4D:163:ASP:OD2	36:4D:286:LEU:HD21	2.14	0.48
37:4F:666:THR:HG23	37:4F:677:THR:HB	1.96	0.48
37:4F:933:ARG:HD2	37:4F:935:ARG:HH21	1.78	0.48
37:4F:952:ASP:CG	37:4F:954:SER:HB3	2.39	0.48
37:4F:1322:ARG:C	38:4N:26:GLU:N	2.71	0.48
37:4F:1334:GLU:C	38:4N:28:VAL:HA	2.38	0.48
37:4H:508:PRO:HB2	38:4M:70:LYS:HE2	1.95	0.48
37:4H:826:LEU:HA	37:4H:826:LEU:HD23	1.70	0.48
37:4H:1300:GLU:HG3	39:4R:20:PHE:CE2	2.49	0.48
38:4N:29:LYS:CA	38:4N:32:GLU:HB3	2.44	0.48
38:4N:74:ASP:N	38:4N:74:ASP:OD2	2.45	0.48
39:4Q:68:ARG:HB3	44:5P:41:ARG:NH1	2.29	0.48
40:4T:35:ARG:NH2	44:5S:60:ASP:OD1	2.47	0.48
40:4U:35:ARG:NH2	44:5U:60:ASP:OD1	2.47	0.48
13:4b:9:ILE:HD13	13:4b:150:GLY:HA2	1.96	0.48
12:4e:392:LYS:NZ	12:4e:405:GLU:OE1	2.47	0.48
12:4g:229:ILE:HA	12:4g:300:MET:HE1	1.96	0.48
41:5B:166:GLY:O	41:5B:170:THR:N	2.45	0.48
42:5H:96:ALA:CA	43:5L:44:THR:HA	2.30	0.48
42:5H:137:TYR:HB2	43:5L:46:PRO:HA	1.95	0.48
43:5I:87:ILE:HG12	43:5I:146:TYR:CD2	2.49	0.48
43:5L:87:ILE:HG12	43:5L:146:TYR:CB	2.43	0.48
13:5b:175:PRO:O	13:5b:394:LYS:NZ	2.46	0.48
12:5c:68:LEU:HB3	12:5c:96:GLY:HA2	1.96	0.48
13:5d:233:GLN:HG3	13:5d:368:LEU:HD13	1.96	0.48
13:5d:236:SER:O	13:5d:243:ARG:NH2	2.46	0.48
13:5h:268:MET:HB3	13:5h:378:ILE:HG23	1.95	0.48
47:6B:284:LEU:O	47:6B:287:GLY:N	2.47	0.48
48:6E:919:LEU:HG	48:6E:920:GLN:O	2.13	0.48
48:6E:1047:PHE:O	48:6E:1050:LEU:HG	2.14	0.48
48:6F:1001:LEU:HD13	50:6L:398:LEU:HD21	1.96	0.48
49:6G:203:ASN:OD1	49:6G:256:ALA:HB1	2.14	0.48
49:6I:203:ASN:OD1	49:6I:256:ALA:HB1	2.14	0.48
49:6J:203:ASN:OD1	49:6J:256:ALA:HB1	2.14	0.48
50:6L:50:ARG:HD3	50:6L:531:TYR:HB3	1.96	0.48
51:6M:1711:ALA:O	51:6M:1714:LEU:HB2	2.14	0.48
51:6M:1801:LEU:HD23	51:6M:1902:MET:HB2	1.96	0.48
51:6N:1801:LEU:HD23	51:6N:1902:MET:HB2	1.96	0.48
51:6N:1949:ARG:NH2	51:6N:1951:VAL:HG22	2.29	0.48
13:7b:137:VAL:O	13:7b:168:GLY:HA2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:7c:341:PHE:HB3	12:7c:348:ASN:ND2	2.29	0.48
13:7f:233:GLN:HG3	13:7f:368:LEU:HD13	1.96	0.48
12:8c:173:PRO:HA	12:8c:380:ARG:HD2	1.96	0.48
12:8c:391:ARG:NH2	13:8d:438:GLU:O	2.45	0.48
13:8d:90:GLU:OE1	13:8d:121:ARG:NE	2.44	0.48
13:8d:107:HIS:O	13:8d:112:LYS:NZ	2.41	0.48
13:8f:236:SER:O	13:8f:243:ARG:NH2	2.46	0.48
12:8g:116:VAL:O	12:8g:120:VAL:HG23	2.14	0.48
12:9c:101:TRP:HD1	12:9c:145:SER:OG	1.96	0.48
12:9e:91:VAL:HG11	12:9e:116:VAL:HG22	1.96	0.48
12:9e:313:ALA:O	12:9e:349:VAL:HA	2.14	0.48
13:Ah:240:ALA:O	13:Ah:356:ASN:ND2	2.47	0.48
12:Bg:111:GLU:OE2	12:Bg:112:LEU:HG	2.13	0.48
13:Cb:75:VAL:HG13	13:Cb:92:LEU:HB3	1.95	0.48
13:Cb:233:GLN:HG3	13:Cb:368:LEU:HD13	1.96	0.48
12:Cc:55:THR:HG21	12:Dc:284:LEU:HD13	1.95	0.48
12:Cc:101:TRP:HD1	12:Cc:145:SER:OG	1.97	0.48
12:Cc:229:ILE:HA	12:Cc:300:MET:HE1	1.96	0.48
13:Cd:233:GLN:HG3	13:Cd:368:LEU:HD13	1.96	0.48
12:Ce:2:ARG:NH1	12:Ce:249:ASP:OD1	2.46	0.48
13:Cf:268:MET:HB3	13:Cf:378:ILE:HG23	1.95	0.48
13:Ch:137:VAL:O	13:Ch:168:GLY:HA2	2.14	0.48
12:Da:209:ASP:CG	12:Da:213:ARG:HH21	2.22	0.48
13:Db:75:VAL:HG13	13:Db:92:LEU:HB3	1.95	0.48
13:Db:212:ILE:O	13:Db:216:SER:OG	2.25	0.48
13:Db:233:GLN:HG3	13:Db:368:LEU:HD13	1.96	0.48
13:Db:240:ALA:O	13:Db:356:ASN:ND2	2.47	0.48
12:De:23:VAL:HA	12:De:26:ASP:OD2	2.13	0.48
13:Df:268:MET:HB3	13:Df:378:ILE:HG23	1.95	0.48
1:0H:174:LEU:O	1:0H:178:GLU:HG2	2.13	0.48
1:0H:260:LEU:HD12	1:0H:261:LYS:HG3	1.96	0.48
1:0J:259:CYS:HB2	1:0J:271:SER:HB3	1.95	0.48
1:0I:354:SER:HB2	1:0I:399:LYS:HG3	1.96	0.48
1:0B:50:LEU:HD11	1:0B:99:TYR:HE1	1.79	0.48
1:0B:210:ALA:O	1:0B:214:LEU:HG	2.14	0.48
1:0C:248:VAL:HG11	1:0C:285:LEU:HG	1.96	0.48
1:0C:353:LYS:HD3	1:0C:386:LEU:HD22	1.96	0.48
1:0D:302:ILE:HG23	1:0D:310:ARG:HE	1.79	0.48
1:0D:355:ALA:O	1:0D:359:THR:HG23	2.14	0.48
1:0D:379:CYS:O	1:0D:383:LEU:HG	2.14	0.48
1:0G:251:GLU:OE1	1:0G:254:PRO:HD3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0L:290:VAL:HG22	1:0L:295:VAL:HG21	1.96	0.48
1:0M:127:LEU:HD11	1:0M:149:LEU:HD21	1.95	0.48
1:0M:294:GLY:O	1:0M:298:LEU:HG	2.14	0.48
1:0N:246:VAL:HG13	10:1R:252:THR:HG22	1.96	0.48
1:0O:355:ALA:O	1:0O:359:THR:HG23	2.14	0.48
1:0O:367:THR:HG22	1:0O:369:ASP:H	1.78	0.48
1:0P:138:ASP:O	1:0P:141:VAL:HG22	2.13	0.48
1:0Q:163:VAL:HG12	1:0Q:168:ALA:HB2	1.96	0.48
1:0Q:336:ALA:O	1:0Q:340:LEU:HG	2.13	0.48
1:0R:316:ALA:O	1:0R:319:TYR:HB2	2.13	0.48
1:0V:358:TRP:CD1	1:0V:362:GLN:HE22	2.32	0.48
1:0X:175:CYS:SG	1:0X:183:LEU:HD12	2.54	0.48
1:0Y:210:ALA:O	1:0Y:214:LEU:HG	2.14	0.48
1:1A:225:LEU:O	1:1A:229:VAL:HG22	2.14	0.48
1:1A:354:SER:HB2	1:1A:399:LYS:HG3	1.96	0.48
1:1B:262:PHE:HE2	1:1B:264:ASP:HB2	1.79	0.48
1:1C:80:VAL:HG21	1:1C:117:LEU:HD22	1.95	0.48
2:1G:43:LEU:HD21	2:1G:91:CYS:HB3	1.96	0.48
3:1H:926:MET:HE1	3:1H:934:LEU:HD11	1.94	0.48
5:1M:442:MET:SD	13:1f:405:VAL:HB	2.53	0.48
6:1N:606:ALA:CB	6:1N:641:TRP:HH2	2.26	0.48
6:1N:2247:LEU:HD21	6:1N:2273:LEU:HD21	1.96	0.48
7:1O:977:PRO:HB2	7:1O:980:GLN:OE1	2.14	0.48
7:1O:1190:LEU:HB2	7:1O:1194:ARG:HG3	1.96	0.48
7:1O:2220:GLY:HA3	7:1O:2252:ALA:HB2	1.95	0.48
7:1O:2846:ILE:HG21	7:1O:3095:GLU:HB2	1.95	0.48
10:1R:112:LYS:HD2	12:9c:406:MET:HE3	1.96	0.48
12:1a:222:PHE:CZ	13:1b:325:PRO:HB3	2.49	0.48
13:1b:240:ALA:O	13:1b:356:ASN:ND2	2.47	0.48
13:1d:200:VAL:HG23	13:1d:256:GLN:HG2	1.96	0.48
12:1e:100:ASN:HB2	13:1f:257:THR:HG21	1.96	0.48
13:1f:407:TRP:HZ2	12:1g:258:ILE:HD12	1.79	0.48
24:2U:170:ALA:C	24:2U:174:MET:HE3	2.39	0.48
24:2V:133:SER:O	24:2V:137:THR:HA	2.13	0.48
12:2e:48:ASN:O	12:2e:62:ARG:NH2	2.44	0.48
28:3C:554:ARG:HH12	12:3g:404:ASP:HB2	1.79	0.48
30:3F:529:PRO:O	30:3F:543:SER:OG	2.25	0.48
30:3G:634:LYS:HZ3	12:7e:410:GLU:HG3	1.79	0.48
31:3I:360:ASN:OD1	31:3I:362:TYR:HD2	1.97	0.48
32:3K:176:PHE:O	32:3K:198:VAL:HG22	2.14	0.48
34:3O:88:ALA:O	34:3O:91:GLU:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3O:370:GLU:CA	34:3Y:360:VAL:HB	2.22	0.48
34:3R:500:TYR:CE2	34:3R:504:LEU:HD11	2.49	0.48
34:3U:312:TRP:CZ3	34:3U:419:LEU:HB2	2.49	0.48
34:3U:438:ILE:HB	34:3U:439:PRO:HD3	1.96	0.48
34:3W:235:LEU:HG	34:3Y:95:ARG:HD2	1.96	0.48
34:3X:338:LEU:C	34:3X:342:GLN:HE22	2.22	0.48
34:3X:356:PHE:CD2	34:3X:375:TYR:HD1	2.31	0.48
12:3a:213:ARG:HG3	12:3a:214:THR:N	2.29	0.48
13:3b:233:GLN:HG3	13:3b:368:LEU:HD13	1.96	0.48
13:3d:137:VAL:O	13:3d:168:GLY:HA2	2.14	0.48
13:3d:233:GLN:HG3	13:3d:368:LEU:HD13	1.96	0.48
13:3f:240:ALA:O	13:3f:356:ASN:ND2	2.47	0.48
12:3g:207:LEU:O	12:3g:210:ILE:HG22	2.13	0.48
13:3h:75:VAL:HG13	13:3h:92:LEU:HB3	1.95	0.48
13:3h:137:VAL:O	13:3h:168:GLY:HA2	2.14	0.48
34:4A:234:ARG:C	34:4A:235:LEU:HD23	2.39	0.48
34:4A:404:HIS:CE1	34:4A:408:ARG:HD2	2.49	0.48
35:4C:373:ILE:O	35:4C:384:VAL:HB	2.14	0.48
37:4G:666:THR:CG2	37:4G:677:THR:HB	2.44	0.48
37:4G:1094:ALA:CB	37:4G:1095:PRO:CD	2.81	0.48
37:4G:1338:PHE:N	37:4G:1338:PHE:CD2	2.81	0.48
37:4H:577:LEU:HD22	42:5F:135:ARG:HA	1.95	0.48
37:4H:1093:VAL:H	38:4M:32:GLU:C	2.22	0.48
37:4H:1286:THR:HG22	37:4H:1297:THR:HG23	1.96	0.48
38:4J:80:LEU:C	38:4J:82:TYR:H	2.22	0.48
38:4M:29:LYS:CA	38:4M:32:GLU:HB3	2.44	0.48
38:4O:52:TYR:CZ	38:4O:56:THR:HG21	2.49	0.48
38:4O:53:LEU:HD13	38:4P:65:MET:HE3	1.96	0.48
39:4R:138:LEU:HA	39:4R:141:GLU:HG2	1.95	0.48
40:4T:321:GLU:O	40:4T:325:VAL:HG23	2.14	0.48
41:4W:161:PHE:HA	41:4W:166:GLY:HA2	1.95	0.48
13:4b:233:GLN:HG3	13:4b:368:LEU:HD13	1.96	0.48
13:4d:9:ILE:HD13	13:4d:150:GLY:HA2	1.96	0.48
42:5H:134:LEU:O	43:5L:50:ILE:N	2.47	0.48
42:5H:135:ARG:NH2	43:5L:59:LEU:CD1	2.76	0.48
42:5H:136:HIS:N	42:5H:137:TYR:H	2.05	0.48
42:5H:138:ARG:O	43:5L:146:TYR:CE1	2.67	0.48
43:5K:17:SER:O	43:5K:18:ILE:CG1	2.59	0.48
44:5R:133:ASP:HA	44:5R:140:VAL:HG12	1.96	0.48
12:5a:192:LEU:HD13	12:5a:199:CYS:SG	2.54	0.48
13:5b:240:ALA:O	13:5b:356:ASN:ND2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:619:LEU:HD11	47:6A:709:LEU:HB3	1.96	0.48
47:6B:619:LEU:HD11	47:6B:709:LEU:HB3	1.96	0.48
47:6B:1810:ILE:HG22	47:6B:1915:LEU:HD11	1.96	0.48
48:6E:900:GLN:HE21	48:6E:922:PRO:HA	1.78	0.48
48:6F:594:ALA:HA	48:6F:822:ARG:NH2	2.28	0.48
49:6H:203:ASN:OD1	49:6H:256:ALA:HB1	2.14	0.48
49:6H:204:ALA:HA	49:6H:305:LYS:HD2	1.96	0.48
50:6K:109:TYR:HB3	50:6K:114:LYS:HG3	1.95	0.48
51:6M:1949:ARG:NH2	51:6M:1951:VAL:HG22	2.29	0.48
51:6M:2175:PRO:HB2	51:6M:2259:ASP:OD2	2.14	0.48
51:6N:1365:ASP:OD1	51:6N:1403:LEU:HD12	2.14	0.48
51:6N:1711:ALA:O	51:6N:1714:LEU:HB2	2.14	0.48
12:6a:192:LEU:HG	12:6a:199:CYS:SG	2.54	0.48
13:6d:9:ILE:HD13	13:6d:150:GLY:HA2	1.96	0.48
12:6e:276:ARG:HA	12:6e:279:GLN:HG3	1.95	0.48
12:6g:140:GLY:HA2	12:6g:184:ASN:HB2	1.95	0.48
13:6h:9:ILE:HD13	13:6h:150:GLY:HA2	1.96	0.48
12:7a:208:TYR:HA	12:7a:211:CYS:SG	2.53	0.48
13:7b:200:VAL:HG23	13:7b:256:GLN:HG2	1.96	0.48
13:7b:233:GLN:HG3	13:7b:368:LEU:HD13	1.96	0.48
13:7f:236:SER:O	13:7f:243:ARG:NH2	2.46	0.48
12:7g:116:VAL:O	12:7g:120:VAL:HG23	2.14	0.48
12:7g:140:GLY:HA2	12:7g:184:ASN:HB2	1.95	0.48
13:8b:236:SER:O	13:8b:243:ARG:NH2	2.46	0.48
12:8c:106:TYR:HE2	12:8c:403:MET:HE2	1.78	0.48
13:8d:212:ILE:O	13:8d:216:SER:OG	2.25	0.48
13:8f:9:ILE:HD13	13:8f:150:GLY:HA2	1.96	0.48
13:8f:200:VAL:HG23	13:8f:256:GLN:HG2	1.96	0.48
12:9e:210:ILE:O	12:9e:214:THR:HG22	2.13	0.48
12:9g:207:LEU:HB3	12:9g:225:LEU:HD22	1.96	0.48
12:Aa:324:LYS:HD3	12:Aa:324:LYS:HA	1.72	0.48
13:Ad:240:ALA:O	13:Ad:356:ASN:ND2	2.47	0.48
13:Af:240:ALA:O	13:Af:356:ASN:ND2	2.47	0.48
12:Ba:99:ASN:HD21	13:Bb:352:LYS:HZ3	1.62	0.48
13:Bb:200:VAL:HG23	13:Bb:256:GLN:HG2	1.96	0.48
12:Bc:39:ASP:N	12:Bc:39:ASP:OD1	2.45	0.48
12:Bc:183:TYR:OH	12:Bc:388:MET:HB3	2.14	0.48
13:Bd:236:SER:O	13:Bd:243:ARG:NH2	2.46	0.48
12:Be:100:ASN:HB2	13:Bf:257:THR:HG21	1.94	0.48
12:Bg:83:GLN:O	12:Cg:281:TYR:OH	2.17	0.48
13:Cb:240:ALA:O	13:Cb:356:ASN:ND2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Cc:116:VAL:O	12:Cc:120:VAL:HG23	2.14	0.48
13:Cd:75:VAL:HG13	13:Cd:92:LEU:HB3	1.95	0.48
13:Cd:240:ALA:O	13:Cd:356:ASN:ND2	2.47	0.48
13:Cf:233:GLN:HG3	13:Cf:368:LEU:HD13	1.96	0.48
13:Cf:240:ALA:O	13:Cf:356:ASN:ND2	2.47	0.48
12:Cg:229:ILE:HA	12:Cg:300:MET:HE1	1.96	0.48
12:Cg:311:LEU:HD23	12:Cg:342:VAL:HG21	1.96	0.48
13:Ch:233:GLN:HG3	13:Ch:368:LEU:HD13	1.96	0.48
13:Ch:240:ALA:O	13:Ch:356:ASN:ND2	2.47	0.48
12:Da:222:PHE:CZ	13:Db:248:LEU:HG	2.48	0.48
12:Dc:27:GLU:OE2	12:Dc:318:ARG:NH2	2.36	0.48
13:Dd:75:VAL:HG13	13:Dd:92:LEU:HB3	1.95	0.48
13:Dd:137:VAL:O	13:Dd:168:GLY:HA2	2.14	0.48
13:Dd:240:ALA:O	13:Dd:356:ASN:ND2	2.47	0.48
13:Dd:268:MET:HB3	13:Dd:378:ILE:HG23	1.95	0.48
12:De:222:PHE:HE2	13:Df:248:LEU:HG	1.77	0.48
12:De:404:ASP:OD2	12:De:405:GLU:N	2.46	0.48
13:Df:137:VAL:O	13:Df:168:GLY:HA2	2.14	0.48
13:Df:240:ALA:O	13:Df:356:ASN:ND2	2.47	0.48
13:Dh:137:VAL:O	13:Dh:168:GLY:HA2	2.14	0.48
13:Dh:240:ALA:O	13:Dh:356:ASN:ND2	2.47	0.48
1:0H:210:ALA:O	1:0H:214:LEU:HG	2.14	0.48
1:0H:379:CYS:O	1:0H:383:LEU:HG	2.14	0.48
1:0J:252:ILE:HG22	1:0J:256:ILE:HG12	1.95	0.48
1:0W:379:CYS:O	1:0W:383:LEU:HG	2.14	0.48
1:0D:89:VAL:O	1:0D:129:SER:OG	2.30	0.47
1:0M:273:THR:O	1:0M:277:GLU:HG2	2.14	0.47
1:0O:349:GLU:HB2	1:0O:352:LEU:HB3	1.96	0.47
1:0P:260:LEU:HD12	1:0P:261:LYS:HG3	1.96	0.47
1:0P:383:LEU:HB3	1:0P:400:CYS:HB3	1.95	0.47
1:0R:139:PRO:HG3	4:1K:120:ARG:HH22	1.79	0.47
1:0R:167:GLY:C	1:0R:169:VAL:H	2.21	0.47
1:0R:320:ILE:CG2	1:0R:327:LEU:HB3	2.43	0.47
1:0R:353:LYS:HD3	1:0R:386:LEU:HD22	1.96	0.47
1:0S:344:LEU:HD11	1:0S:356:THR:CB	2.44	0.47
1:0U:37:LEU:HB3	1:0U:42:ALA:HB3	1.96	0.47
1:0U:196:LYS:HD3	5:1M:585:MET:CE	2.44	0.47
1:0V:320:ILE:HG22	1:0V:327:LEU:HB3	1.95	0.47
1:0V:343:ALA:O	1:0V:346:GLU:C	2.57	0.47
1:0X:238:LYS:HE3	1:0X:239:HIS:CD2	2.49	0.47
1:0X:353:LYS:HD3	1:0X:386:LEU:HD22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Y:349:GLU:HB2	1:0Y:352:LEU:HB3	1.96	0.47
1:1B:76:ALA:CB	1:1B:117:LEU:HD21	2.42	0.47
1:1B:392:SER:OG	1:1B:396:LEU:HB2	2.14	0.47
2:1D:95:LEU:O	2:1D:99:VAL:HG23	2.12	0.47
2:1E:319:CYS:N	2:1E:320:PRO:HD2	2.29	0.47
3:1H:584:ARG:O	3:1H:587:VAL:HG12	2.13	0.47
3:1H:679:GLU:HB3	3:1H:683:ARG:HH12	1.79	0.47
3:1H:845:ILE:HA	3:1H:848:ARG:HG2	1.96	0.47
3:1H:1016:MET:HB3	48:6F:349:GLY:O	2.14	0.47
3:1I:760:THR:HG22	3:1I:807:CYS:HA	1.96	0.47
4:1K:208:LYS:HA	4:1K:257:GLU:OE2	2.14	0.47
5:1M:564:ARG:HD3	13:1f:434:GLU:CG	2.43	0.47
7:1O:2501:GLU:HA	7:1O:2504:ARG:NH1	2.28	0.47
10:1R:268:ASN:O	10:1R:272:MET:HG2	2.14	0.47
12:1a:285:THR:HG23	12:1a:288:GLU:H	1.79	0.47
13:1b:200:VAL:HG23	13:1b:256:GLN:HG2	1.96	0.47
12:1c:229:ILE:HA	12:1c:300:MET:HE1	1.96	0.47
12:1e:322:SER:O	12:1e:326:VAL:HG23	2.13	0.47
13:1f:76:ASP:HA	13:1f:79:ARG:HD2	1.95	0.47
13:1f:240:ALA:O	13:1f:356:ASN:ND2	2.47	0.47
12:1g:102:ALA:HB2	12:1g:403:MET:HE3	1.96	0.47
13:1h:137:VAL:O	13:1h:168:GLY:HA2	2.14	0.47
14:2F:102:ALA:HB3	12:Ca:279:GLN:NE2	2.28	0.47
14:2G:41:TRP:CH2	12:De:73:MET:HB2	2.49	0.47
14:2G:75:ARG:NH1	13:Cf:357:TYR:O	2.47	0.47
14:2G:102:ALA:HB3	12:Ce:279:GLN:NE2	2.29	0.47
23:2R:66:UNK:CB	13:2b:123:ARG:HD3	2.43	0.47
24:2V:123:HIS:HA	24:2V:158:VAL:HG21	1.96	0.47
12:2c:141:GLY:O	12:2c:145:SER:OG	2.25	0.47
13:2f:210:TYR:CD1	12:2g:324:LYS:HB2	2.49	0.47
12:2g:341:PHE:HB3	12:2g:348:ASN:ND2	2.29	0.47
13:2h:268:MET:HB3	13:2h:378:ILE:HG23	1.95	0.47
31:3I:147:LEU:HD11	31:3I:175:ARG:HE	1.78	0.47
32:3J:129:GLU:HB3	32:3J:130:GLU:OE1	2.14	0.47
34:3M:489:MET:HE2	34:3M:493:LYS:HD2	1.96	0.47
34:3N:301:HIS:O	34:3N:304:SER:OG	2.28	0.47
34:3N:502:VAL:O	34:3N:506:GLU:HG3	2.13	0.47
34:3O:87:ASN:HD21	34:3T:36:ILE:HG22	1.79	0.47
34:3S:280:TRP:HB2	34:3S:452:HIS:CD2	2.49	0.47
34:3T:116:ARG:HB2	34:3T:116:ARG:NH1	2.29	0.47
34:3T:252:GLU:O	34:3T:255:HIS:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3U:117:ARG:O	34:3U:121:LEU:HD23	2.14	0.47
34:3X:122:GLN:NE2	34:3X:372:GLN:HE21	2.12	0.47
13:3b:75:VAL:HG13	13:3b:92:LEU:HB3	1.95	0.47
12:3c:229:ILE:HA	12:3c:300:MET:HE1	1.96	0.47
12:3e:20:PHE:CA	12:3e:230:SER:HB2	2.42	0.47
12:3g:116:VAL:O	12:3g:120:VAL:HG23	2.14	0.47
35:4C:782:GLU:OE1	37:4E:1764:PRO:HG3	2.13	0.47
37:4E:578:ASP:HB2	43:5L:31:ASP:CG	2.38	0.47
37:4E:581:LEU:C	43:5L:32:LEU:O	2.56	0.47
37:4E:588:PRO:CD	43:5L:32:LEU:CB	2.88	0.47
37:4F:536:LEU:O	37:4F:537:LEU:C	2.57	0.47
37:4F:1144:LEU:HD23	37:4F:1156:LEU:CB	2.44	0.47
37:4F:1320:GLY:O	38:4N:28:VAL:CG1	2.62	0.47
37:4G:690:CYS:HB2	38:4I:54:GLU:C	2.39	0.47
37:4G:969:LEU:C	37:4G:1074:GLN:CG	2.86	0.47
37:4G:1094:ALA:CB	37:4G:1095:PRO:HG2	2.44	0.47
37:4G:1094:ALA:HA	37:4G:1095:PRO:HD2	1.29	0.47
37:4G:1130:ALA:HB1	38:4L:40:LYS:HZ1	1.79	0.47
37:4G:1315:VAL:HG22	38:4L:26:GLU:OE2	2.13	0.47
37:4G:1336:ASP:O	37:4G:1707:PRO:O	2.31	0.47
38:4J:36:VAL:O	38:4J:36:VAL:CG2	2.62	0.47
38:4M:37:GLY:O	38:4M:40:LYS:HB3	2.15	0.47
39:4Q:138:LEU:HA	39:4Q:141:GLU:HG2	1.95	0.47
13:4b:75:VAL:HG13	13:4b:92:LEU:HB3	1.95	0.47
13:4h:233:GLN:HG3	13:4h:368:LEU:HD13	1.96	0.47
42:5F:67:GLY:O	42:5F:71:THR:HG23	2.14	0.47
42:5H:91:TYR:C	43:5L:45:ASN:CG	2.81	0.47
42:5H:137:TYR:CG	43:5L:45:ASN:C	2.92	0.47
42:5H:144:PHE:CE1	43:5L:144:TYR:CE1	3.02	0.47
43:5I:112:PRO:HB3	44:5S:115:ASN:HB3	1.96	0.47
43:5J:9:ASP:O	43:5J:10:LEU:HB2	2.13	0.47
43:5K:34:ALA:HB3	43:5K:35:LYS:HD3	1.95	0.47
12:5c:274:THR:HG23	12:5c:279:GLN:HG2	1.96	0.47
13:5f:233:GLN:HG3	13:5f:368:LEU:HD13	1.96	0.47
12:5g:31:ASP:HB2	12:5g:32:PRO:HD2	1.96	0.47
12:5g:329:GLN:O	12:5g:333:VAL:HG23	2.13	0.47
47:6A:1648:ILE:HD11	47:6A:1769:ARG:NH2	2.28	0.47
47:6B:381:GLN:HA	3:6D:848:ARG:HD3	1.94	0.47
47:6B:1182:GLY:HA3	47:6B:1291:LEU:HD21	1.95	0.47
3:6D:529:LEU:HG	3:6D:586:LEU:HD13	1.94	0.47
48:6E:97:LEU:HD12	48:6E:119:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:6E:270:LEU:O	48:6E:273:VAL:HG22	2.14	0.47
48:6E:989:LYS:C	48:6E:991:LEU:H	2.22	0.47
51:6M:1362:ARG:HG3	51:6M:1373:HIS:CD2	2.49	0.47
51:6M:1365:ASP:OD1	51:6M:1403:LEU:HD12	2.14	0.47
51:6N:1385:PRO:HB2	51:6N:1387:GLN:NE2	2.26	0.47
51:6N:1902:MET:HE3	51:6N:1902:MET:HB3	1.59	0.47
12:6a:50:TYR:CE2	12:6a:241:ARG:HD3	2.50	0.47
12:6c:140:GLY:HA2	12:6c:184:ASN:HB2	1.95	0.47
12:6c:290:THR:HG1	12:6c:294:TRP:CD1	2.32	0.47
12:6c:341:PHE:HB3	12:6c:348:ASN:ND2	2.29	0.47
12:6e:50:TYR:CE2	12:6e:241:ARG:HD3	2.49	0.47
13:6f:9:ILE:HD13	13:6f:150:GLY:HA2	1.96	0.47
12:7a:2:ARG:NH1	12:7a:249:ASP:OD1	2.46	0.47
13:7f:137:VAL:O	13:7f:168:GLY:HA2	2.14	0.47
12:8c:20:PHE:HA	12:8c:230:SER:HB2	1.96	0.47
12:8c:179:VAL:HG13	12:8c:180:VAL:HG13	1.95	0.47
13:8d:9:ILE:HD13	13:8d:150:GLY:HA2	1.96	0.47
13:8f:90:GLU:OE1	13:8f:121:ARG:NE	2.44	0.47
13:8f:212:ILE:O	13:8f:216:SER:OG	2.25	0.47
12:8g:39:ASP:N	12:8g:39:ASP:OD1	2.45	0.47
12:8g:248:ALA:HA	12:8g:252:LYS:HE3	1.94	0.47
13:8h:137:VAL:O	13:8h:168:GLY:HA2	2.14	0.47
13:8h:233:GLN:HG3	13:8h:368:LEU:HD13	1.96	0.47
13:9b:268:MET:HB3	13:9b:378:ILE:HG23	1.95	0.47
13:9d:137:VAL:O	13:9d:168:GLY:HA2	2.14	0.47
13:9f:75:VAL:HG13	13:9f:92:LEU:HB3	1.95	0.47
13:9h:137:VAL:O	13:9h:168:GLY:HA2	2.14	0.47
13:Ab:240:ALA:O	13:Ab:356:ASN:ND2	2.47	0.47
13:Ad:268:MET:HB3	13:Ad:378:ILE:HG23	1.95	0.47
13:Ah:9:ILE:HD13	13:Ah:150:GLY:HA2	1.96	0.47
13:Ah:200:VAL:HG23	13:Ah:256:GLN:HG2	1.96	0.47
12:Ba:248:ALA:HB1	12:Ba:350:LYS:HZ1	1.79	0.47
12:Be:50:TYR:CE2	12:Be:241:ARG:HD3	2.49	0.47
12:Cc:20:PHE:HA	12:Cc:230:SER:HB2	1.95	0.47
12:Cc:21:TRP:CZ3	12:Cc:61:PRO:HB3	2.49	0.47
13:Cd:268:MET:HB3	13:Cd:378:ILE:HG23	1.95	0.47
13:Cf:75:VAL:HG13	13:Cf:92:LEU:HB3	1.95	0.47
12:Cg:173:PRO:HA	12:Cg:380:ARG:HD2	1.96	0.47
1:0H:17:ARG:NH1	1:0H:52:ASP:OD1	2.46	0.47
1:0I:277:GLU:HA	1:0I:280:LYS:HZ2	1.79	0.47
1:0I:412:THR:OG1	1:0I:413:HIS:N	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0A:31:PRO:HA	1:0A:34:ILE:HD12	1.96	0.47
1:0A:91:SER:HB2	1:0A:99:TYR:CZ	2.49	0.47
1:0B:85:LEU:O	1:0B:89:VAL:HG13	2.14	0.47
1:0B:349:GLU:HB2	1:0B:352:LEU:HB3	1.96	0.47
1:0N:185:ARG:HD2	1:0N:224:LYS:HB3	1.96	0.47
1:0N:306:ALA:HB3	1:0N:309:ASN:ND2	2.29	0.47
1:0Q:307:GLY:HA2	1:0Q:310:ARG:HD3	1.95	0.47
1:0Q:318:GLY:HA3	1:0Q:359:THR:HG22	1.95	0.47
1:0R:282:THR:CG2	1:0R:283:PRO:HD2	2.43	0.47
1:0S:223:ALA:HB2	1:0S:262:PHE:CZ	2.48	0.47
1:0S:328:ALA:HA	1:0S:331:VAL:HG12	1.95	0.47
1:0T:23:ALA:O	1:0T:27:MET:HG2	2.14	0.47
1:0U:56:SER:O	1:0U:59:GLN:HG2	2.14	0.47
1:0V:134:LEU:HD21	1:0V:146:ALA:HB2	1.96	0.47
1:0Y:248:VAL:HA	1:0Y:253:PHE:CE2	2.47	0.47
1:1A:379:CYS:O	1:1A:383:LEU:HG	2.14	0.47
1:1B:85:LEU:HD22	1:1B:107:LEU:HD23	1.95	0.47
1:1B:356:THR:O	1:1B:359:THR:HG22	2.14	0.47
1:1C:262:PHE:HE2	1:1C:264:ASP:HB3	1.79	0.47
1:1C:336:ALA:O	1:1C:340:LEU:HG	2.13	0.47
2:1D:179:HIS:O	2:1D:183:ILE:HG13	2.13	0.47
2:1E:328:ALA:O	2:1E:331:LYS:HG3	2.15	0.47
3:1I:890:ARG:NH2	3:1I:943:SER:OG	2.47	0.47
4:1K:57:TRP:CZ3	4:1K:59:PRO:HB3	2.49	0.47
6:1N:548:ASN:HB2	6:1N:551:GLU:CD	2.39	0.47
6:1N:641:TRP:CD1	6:1N:653:GLN:HG3	2.49	0.47
6:1N:1092:ARG:HB2	8:1P:716:LEU:HD23	1.96	0.47
7:1O:162:PRO:HD3	8:1P:910:CYS:SG	2.54	0.47
10:1R:421:THR:CB	12:Aa:94:GLN:HE22	2.26	0.47
12:1a:222:PHE:CD2	13:1b:247:ALA:HB1	2.49	0.47
12:1a:271:THR:HG22	12:1a:365:ALA:O	2.14	0.47
12:1a:334:GLN:HE21	12:1a:349:VAL:HG12	1.80	0.47
13:1b:9:ILE:HD13	13:1b:150:GLY:HA2	1.96	0.47
13:1d:268:MET:HB3	13:1d:378:ILE:HG23	1.95	0.47
13:1f:212:ILE:O	13:1f:216:SER:OG	2.25	0.47
12:1g:48:ASN:O	12:1g:62:ARG:NH2	2.44	0.47
14:2F:44:LYS:HE2	13:Db:2:ARG:NE	2.29	0.47
14:2F:144:LYS:HA	12:Aa:78:SER:O	2.13	0.47
24:2T:142:GLY:CA	13:Ch:120:ASP:OD1	2.62	0.47
12:2a:48:ASN:O	12:2a:62:ARG:NH2	2.44	0.47
54:2b:501:GTP:H8	12:2c:246:LEU:HD13	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2f:137:VAL:O	13:2f:168:GLY:HA2	2.14	0.47
30:3F:301:VAL:HG23	13:6f:427:ALA:C	2.39	0.47
30:3G:539:LEU:HA	13:8h:298:PRO:CG	2.43	0.47
30:3G:666:VAL:HG13	13:7d:433:GLU:HG3	1.94	0.47
34:3M:79:ALA:O	34:3M:83:GLU:HG2	2.15	0.47
34:3O:281:GLN:HE21	34:3T:197:ASN:HB3	1.79	0.47
34:3P:118:HIS:CE1	34:3P:356:PHE:CD2	3.02	0.47
34:3P:122:GLN:HE21	34:3P:368:LEU:HB3	1.78	0.47
34:3Q:104:ARG:NH2	34:3Q:391:GLU:OE2	2.45	0.47
34:3R:42:LEU:HD13	34:3R:453:ARG:HE	1.80	0.47
34:3R:503:ASN:HB3	34:3W:467:LEU:HD13	1.96	0.47
34:3S:187:VAL:O	34:3S:187:VAL:HG23	2.14	0.47
34:3W:338:LEU:HD11	34:3W:393:ALA:HB1	1.95	0.47
34:3X:45:ASN:HB3	34:3X:284:PHE:CE2	2.49	0.47
12:3a:176:SER:OG	13:3b:349:THR:HB	2.15	0.47
12:3a:309:ARG:NH2	12:3a:343:GLU:OE2	2.47	0.47
13:3b:240:ALA:O	13:3b:356:ASN:ND2	2.47	0.47
13:3d:200:VAL:HG23	13:3d:256:GLN:HG2	1.96	0.47
13:3d:240:ALA:O	13:3d:356:ASN:ND2	2.47	0.47
12:3e:48:ASN:O	12:3e:62:ARG:NH2	2.42	0.47
34:4B:404:HIS:O	34:4B:408:ARG:HG3	2.15	0.47
35:4C:517:MET:HE3	36:4D:129:ARG:HH21	1.78	0.47
35:4C:915:LEU:CD2	35:4C:1072:ARG:HA	2.41	0.47
35:4C:930:ILE:HD11	35:4C:1056:PHE:CE1	2.49	0.47
36:4D:89:ASP:HB2	36:4D:104:LEU:HD22	1.96	0.47
36:4D:111:TYR:HB3	36:4D:114:ASN:HB2	1.95	0.47
36:4D:131:TYR:HE1	46:5Z:98:UNK:H	1.61	0.47
37:4E:524:LEU:HD21	38:4O:50:ARG:HH11	1.79	0.47
37:4E:574:LEU:HD11	42:5H:98:PHE:HE2	1.75	0.47
37:4E:1113:VAL:HA	42:5H:43:PHE:O	2.13	0.47
37:4F:1073:LEU:HG	37:4F:1379:ALA:HB3	1.96	0.47
37:4F:1161:SER:HA	37:4F:1188:ALA:HA	1.95	0.47
37:4F:1335:MET:SD	38:4N:32:GLU:CD	2.97	0.47
37:4F:1341:ILE:HG12	37:4F:1350:ILE:CG1	2.44	0.47
37:4F:1366:VAL:HG21	37:4F:1396:LEU:HD22	1.96	0.47
37:4F:1709:LEU:HD21	38:4N:28:VAL:HG22	1.96	0.47
37:4G:686:HIS:CE1	38:4I:51:GLN:CG	2.97	0.47
37:4G:788:LEU:CD1	37:4G:1627:ILE:HD11	2.44	0.47
37:4G:1130:ALA:HB1	38:4L:40:LYS:NZ	2.29	0.47
37:4G:1303:VAL:CG1	37:4G:1317:ASP:HA	2.42	0.47
37:4G:1715:GLY:CA	37:4G:1754:TYR:HB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:953:PRO:CB	38:4M:47:ALA:HB3	2.40	0.47
37:4H:1072:ALA:HB3	38:4M:41:LYS:NZ	2.29	0.47
37:4H:1136:ARG:HH11	38:4M:29:LYS:CD	2.25	0.47
37:4H:1138:VAL:N	38:4M:33:LYS:HB3	2.29	0.47
37:4H:1483:ALA:HB1	37:4H:1510:VAL:HA	1.96	0.47
38:4K:36:VAL:O	38:4K:36:VAL:CG2	2.62	0.47
38:4L:38:VAL:O	38:4L:41:LYS:CB	2.63	0.47
38:4L:45:ALA:C	38:4L:47:ALA:N	2.72	0.47
39:4S:138:LEU:HA	39:4S:141:GLU:HG2	1.95	0.47
13:4b:205:ASP:O	13:4b:209:ILE:HG13	2.15	0.47
12:4e:58:ARG:HH21	12:5e:281:TYR:HE1	1.58	0.47
13:4f:75:VAL:HG13	13:4f:92:LEU:HB3	1.95	0.47
13:4f:233:GLN:HG3	13:4f:368:LEU:HD13	1.96	0.47
13:4h:75:VAL:HG13	13:4h:92:LEU:HB3	1.95	0.47
42:5H:137:TYR:HA	42:5H:140:TYR:HD1	1.79	0.47
43:5I:120:SER:OG	43:5I:121:PHE:N	2.47	0.47
43:5L:87:ILE:HG12	43:5L:146:TYR:CD2	2.49	0.47
13:5d:137:VAL:O	13:5d:168:GLY:HA2	2.14	0.47
12:5e:50:TYR:CE2	12:5e:241:ARG:HD3	2.50	0.47
13:5f:268:MET:HB3	13:5f:378:ILE:HG23	1.95	0.47
13:5h:137:VAL:O	13:5h:168:GLY:HA2	2.14	0.47
47:6A:110:LYS:O	47:6A:114:THR:HG23	2.14	0.47
47:6B:969:ALA:CB	47:6B:1094:VAL:HG13	2.44	0.47
3:6D:512:LEU:HD22	3:6D:569:VAL:HG13	1.96	0.47
3:6D:587:VAL:O	3:6D:591:LEU:HG	2.14	0.47
48:6F:97:LEU:HD12	48:6F:119:VAL:HG22	1.96	0.47
48:6F:996:CYS:SG	48:6F:998:ARG:HB3	2.54	0.47
48:6F:1047:PHE:O	48:6F:1050:LEU:HG	2.14	0.47
49:6H:346:GLU:HB3	49:6H:347:PRO:HD3	1.95	0.47
51:6N:2175:PRO:HB2	51:6N:2259:ASP:OD2	2.14	0.47
12:6a:172:SER:HB2	12:6a:205:GLU:HG3	1.95	0.47
13:6b:240:ALA:O	13:6b:356:ASN:ND2	2.47	0.47
13:6b:406:HIS:CE1	12:6c:261:PRO:HD3	2.49	0.47
12:6e:406:MET:SD	12:6e:410:GLU:HG2	2.54	0.47
12:7a:161:ASP:OD1	12:7a:161:ASP:N	2.45	0.47
13:7d:137:VAL:O	13:7d:168:GLY:HA2	2.14	0.47
13:7d:236:SER:O	13:7d:243:ARG:NH2	2.46	0.47
13:7f:200:VAL:HG23	13:7f:256:GLN:HG2	1.96	0.47
13:7h:137:VAL:O	13:7h:168:GLY:HA2	2.14	0.47
13:7h:233:GLN:HG3	13:7h:368:LEU:HD13	1.96	0.47
13:7h:268:MET:HB3	13:7h:378:ILE:HG23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8a:263:LEU:HD22	12:8a:422:TYR:CE1	2.49	0.47
13:8b:9:ILE:HD13	13:8b:150:GLY:HA2	1.96	0.47
12:9c:193:VAL:HG13	12:9c:262:ARG:HB2	1.96	0.47
13:9f:221:ARG:HB3	12:9g:322:SER:HB2	1.96	0.47
12:9g:267:MET:HG2	12:9g:301:CYS:HB3	1.96	0.47
12:Aa:222:PHE:CE2	13:Ab:248:LEU:HG	2.50	0.47
13:Ah:268:MET:HB3	13:Ah:378:ILE:HG23	1.95	0.47
12:Ba:272:PRO:HD3	12:Ba:364:SER:HA	1.96	0.47
12:Ba:313:ALA:O	12:Ba:349:VAL:HA	2.14	0.47
13:Bh:205:ASP:O	13:Bh:209:ILE:HG13	2.15	0.47
13:Bh:240:ALA:O	13:Bh:356:ASN:ND2	2.47	0.47
13:Cb:268:MET:HB3	13:Cb:378:ILE:HG23	1.95	0.47
12:Ce:201:VAL:HG23	12:Ce:301:CYS:HB2	1.96	0.47
12:Cg:284:LEU:HD23	12:Cg:362:LYS:HB2	1.95	0.47
12:Da:16:ILE:HD11	12:Da:229:ILE:HG21	1.96	0.47
13:Db:137:VAL:O	13:Db:168:GLY:HA2	2.14	0.47
12:De:98:GLY:HA3	13:Df:253:THR:OG1	2.14	0.47
12:Dg:274:THR:OG1	12:Dg:279:GLN:HG2	2.14	0.47
1:0W:224:LYS:O	1:0W:228:GLN:HG2	2.14	0.47
1:0K:230:CYS:HB2	1:0K:270:HIS:HB3	1.96	0.47
1:0D:61:ALA:O	1:0D:65:LEU:HD23	2.14	0.47
1:0E:174:LEU:O	1:0E:178:GLU:HG2	2.14	0.47
1:0F:108:ARG:NH2	1:0F:144:ALA:HB1	2.29	0.47
1:0F:261:LYS:HE2	1:0F:261:LYS:HB2	1.30	0.47
1:0G:118:ALA:HB1	1:0G:152:ILE:HG12	1.96	0.47
1:0L:379:CYS:O	1:0L:383:LEU:HG	2.13	0.47
1:0N:168:ALA:O	1:0N:172:LEU:HG	2.14	0.47
1:0N:193:ASP:O	1:0N:197:HIS:HD2	1.96	0.47
1:0Q:34:ILE:HA	1:0Q:37:LEU:HD12	1.95	0.47
1:0Q:418:ASP:O	1:0Q:422:HIS:ND1	2.45	0.47
1:0R:12:ARG:O	1:0R:16:GLU:HG2	2.14	0.47
1:0R:350:ASP:CA	1:0R:353:LYS:HG3	2.43	0.47
1:0S:240:SER:HB3	1:0S:243:LEU:HG	1.96	0.47
1:0T:33:ASN:O	1:0T:37:LEU:HG	2.15	0.47
1:0T:379:CYS:O	1:0T:383:LEU:HG	2.14	0.47
1:0U:48:PRO:HA	1:0U:51:LEU:HB2	1.96	0.47
1:0U:219:ILE:HG12	1:0U:255:LYS:HG2	1.95	0.47
1:0U:308:ASN:OD1	5:1M:573:ASN:HA	2.14	0.47
1:1A:156:ASN:HB3	1:1A:159:LEU:HD13	1.94	0.47
1:1B:178:GLU:O	1:1B:184:LYS:NZ	2.44	0.47
1:1C:154:GLY:HA2	1:1C:197:HIS:NE2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:100:VAL:HG12	2:1E:102:CYS:H	1.79	0.47
2:1G:100:VAL:HG12	2:1G:102:CYS:H	1.79	0.47
3:1H:795:LEU:HD21	4:1J:250:LEU:CD1	2.38	0.47
4:1J:57:TRP:CZ3	4:1J:59:PRO:HB3	2.49	0.47
4:1J:208:LYS:HA	4:1J:257:GLU:OE2	2.14	0.47
5:1M:517:ARG:HB3	13:1f:417:GLU:OE2	2.13	0.47
5:1M:583:LEU:HD12	5:1M:584:GLY:H	1.79	0.47
6:1N:46:GLU:OE1	8:1P:772:ALA:HB2	2.15	0.47
7:1O:1729:VAL:HG12	7:1O:1730:VAL:N	2.29	0.47
7:1O:2138:ASP:OD1	7:1O:2143:TRP:NE1	2.47	0.47
9:1Q:824:GLU:HA	9:1Q:857:ALA:CB	2.44	0.47
10:1R:335:LEU:HB2	13:Ab:406:HIS:HB3	1.96	0.47
10:1R:391:SER:CB	10:1R:394:ARG:HH21	2.28	0.47
12:1a:396:HIS:CD2	13:1b:261:PRO:O	2.67	0.47
12:1e:176:SER:OG	13:1f:349:THR:HB	2.15	0.47
13:1h:268:MET:HB3	13:1h:378:ILE:HG23	1.95	0.47
15:2H:132:UNK:N	12:9g:216:LYS:O	2.48	0.47
16:2I:39:UNK:HA	12:Dc:279:GLN:CD	2.39	0.47
24:2U:135:ARG:NH1	24:2U:137:THR:HG22	2.19	0.47
24:2V:208:ARG:CZ	12:Ce:261:PRO:HB3	2.45	0.47
13:2b:137:VAL:O	13:2b:168:GLY:HA2	2.14	0.47
13:2b:268:MET:HB3	13:2b:378:ILE:HG23	1.95	0.47
12:2c:189:VAL:HG21	12:2c:378:PHE:HE1	1.78	0.47
12:2c:207:LEU:HB3	12:2c:225:LEU:HD22	1.95	0.47
12:2c:330:MET:HB3	12:2c:349:VAL:HG11	1.96	0.47
13:2d:236:SER:O	13:2d:243:ARG:NH2	2.46	0.47
13:2f:268:MET:HB3	13:2f:378:ILE:HG23	1.95	0.47
30:3G:542:MET:HB2	13:7h:156:ARG:CZ	2.44	0.47
30:3G:754:GLN:OE1	12:6a:105:HIS:CD2	2.68	0.47
31:3I:467:ARG:HA	13:8f:430:LYS:HZ2	1.78	0.47
32:3J:78:PHE:CE2	32:3J:99:LEU:HD11	2.49	0.47
32:3J:248:ARG:NH2	12:Aa:427:ASP:OD2	2.32	0.47
34:3M:270:ILE:HG22	34:3M:274:ILE:HD11	1.96	0.47
34:3N:55:GLN:HB3	34:3N:215:THR:CG2	2.43	0.47
34:3Q:77:GLN:O	34:3Q:81:GLU:HG3	2.14	0.47
34:3R:258:TYR:CD2	34:3R:474:TRP:CD1	3.02	0.47
34:3V:485:TYR:CZ	34:3X:251:LEU:HD21	2.49	0.47
34:3W:404:HIS:O	34:3W:408:ARG:HG3	2.14	0.47
34:3X:118:HIS:O	34:3X:122:GLN:HG3	2.13	0.47
34:3X:490:GLN:NE2	37:4F:1795:ARG:HE	2.12	0.47
34:3Z:118:HIS:O	34:3Z:122:GLN:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3Z:500:TYR:O	34:3Z:504:LEU:HD23	2.13	0.47
12:3c:68:LEU:HB3	12:3c:96:GLY:HA2	1.96	0.47
12:3c:274:THR:HG23	12:3c:279:GLN:HG2	1.95	0.47
13:3d:75:VAL:HG13	13:3d:92:LEU:HB3	1.95	0.47
12:3e:179:VAL:HG12	13:3f:351:PHE:N	2.29	0.47
12:3g:229:ILE:HA	12:3g:300:MET:HE1	1.96	0.47
34:4A:325:ASP:O	34:4A:329:THR:HG23	2.15	0.47
35:4C:518:LEU:C	36:4D:129:ARG:HH12	2.23	0.47
36:4D:243:ARG:HE	36:4D:260:LEU:HD21	1.79	0.47
37:4E:579:THR:O	37:4E:579:THR:HG23	2.11	0.47
37:4E:580:GLU:O	43:5L:32:LEU:CD1	2.61	0.47
37:4E:1111:VAL:HG12	42:5H:48:ALA:CB	2.44	0.47
37:4E:1441:LEU:HD12	37:4E:1462:SER:HB2	1.97	0.47
37:4F:534:HIS:CE1	37:4F:538:GLU:OE1	2.67	0.47
37:4F:1734:PHE:CD2	37:4F:1736:ARG:NH1	2.77	0.47
37:4G:686:HIS:CD2	37:4G:689:ARG:HD3	2.50	0.47
37:4G:776:HIS:CD2	37:4G:1783:LEU:HD12	2.49	0.47
37:4G:902:GLN:HB2	37:4G:1523:PRO:HB3	1.95	0.47
37:4G:969:LEU:HD12	37:4G:1074:GLN:O	2.13	0.47
37:4H:1138:VAL:HG13	37:4H:1139:THR:H	1.74	0.47
37:4H:1297:THR:O	37:4H:1304:MET:HA	2.14	0.47
38:4I:37:GLY:O	38:4I:40:LYS:HB3	2.15	0.47
38:4I:45:ALA:C	38:4I:47:ALA:N	2.72	0.47
38:4I:80:LEU:C	38:4I:82:TYR:H	2.22	0.47
38:4L:29:LYS:CA	38:4L:32:GLU:HB3	2.43	0.47
38:4N:36:VAL:CG2	38:4N:36:VAL:O	2.62	0.47
40:4U:321:GLU:O	40:4U:325:VAL:HG23	2.14	0.47
40:4V:638:THR:O	40:4V:640:GLU:N	2.47	0.47
13:4d:75:VAL:HG13	13:4d:92:LEU:HB3	1.95	0.47
13:4d:205:ASP:O	13:4d:209:ILE:HG13	2.15	0.47
13:4d:233:GLN:HG3	13:4d:368:LEU:HD13	1.96	0.47
12:4g:341:PHE:HB3	12:4g:348:ASN:ND2	2.29	0.47
13:4h:137:VAL:O	13:4h:168:GLY:HA2	2.14	0.47
41:5A:22:THR:H	43:5L:191:LYS:C	2.22	0.47
42:5G:67:GLY:O	42:5G:71:THR:HG23	2.14	0.47
42:5G:136:HIS:HB3	42:5G:139:LEU:CD1	2.44	0.47
42:5H:49:ILE:CA	43:5L:144:TYR:CD1	2.97	0.47
42:5H:136:HIS:N	43:5L:49:ALA:CA	2.75	0.47
44:5Q:113:MET:HE3	44:5Q:120:LEU:HD22	1.96	0.47
13:5d:268:MET:HB3	13:5d:378:ILE:HG23	1.95	0.47
13:5f:137:VAL:O	13:5f:168:GLY:HA2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5g:406:MET:SD	12:5g:409:THR:OG1	2.70	0.47
13:5h:240:ALA:O	13:5h:356:ASN:ND2	2.47	0.47
47:6A:912:ASP:OD2	47:6A:913:GLY:N	2.42	0.47
47:6A:1593:PRO:HD2	47:6A:1596:TRP:CH2	2.49	0.47
47:6A:1904:SER:HA	50:6L:573:LYS:NZ	2.29	0.47
47:6B:110:LYS:O	47:6B:114:THR:HG23	2.14	0.47
48:6E:510:VAL:HG12	48:6E:564:THR:HA	1.96	0.47
48:6E:607:HIS:CE1	48:6E:624:THR:HB	2.48	0.47
48:6F:270:LEU:O	48:6F:273:VAL:HG22	2.14	0.47
48:6F:639:PRO:HB3	48:6F:655:LEU:HB2	1.96	0.47
48:6F:750:VAL:HA	48:6F:864:GLN:HG2	1.97	0.47
49:6I:2:SER:N	49:6I:5:GLU:OE1	2.47	0.47
49:6I:411:VAL:HG13	49:6I:434:SER:HA	1.96	0.47
49:6J:2:SER:N	49:6J:5:GLU:OE1	2.47	0.47
49:6J:46:GLU:N	49:6J:46:GLU:CD	2.72	0.47
49:6J:411:VAL:HG13	49:6J:434:SER:HA	1.96	0.47
50:6L:109:TYR:HB3	50:6L:114:LYS:HG3	1.96	0.47
51:6N:1606:LEU:HD13	51:6N:1653:ILE:HG12	1.96	0.47
13:6b:9:ILE:HD13	13:6b:150:GLY:HA2	1.96	0.47
13:6b:268:MET:HB3	13:6b:378:ILE:HG23	1.95	0.47
12:6c:178:THR:OG1	13:6d:258:ASN:OD1	2.32	0.47
12:6e:249:ASP:H	12:6e:252:LYS:HD3	1.79	0.47
12:6e:322:SER:O	12:6e:326:VAL:HG23	2.13	0.47
12:6g:11:GLN:NE2	13:6h:246:GLY:O	2.47	0.47
12:6g:68:LEU:HD21	12:6g:147:MET:SD	2.54	0.47
13:7b:107:HIS:O	13:7b:112:LYS:NZ	2.41	0.47
12:7c:330:MET:SD	12:7c:349:VAL:HG21	2.54	0.47
13:7d:200:VAL:HG23	13:7d:256:GLN:HG2	1.96	0.47
13:7h:200:VAL:HG23	13:7h:256:GLN:HG2	1.96	0.47
13:7h:205:ASP:O	13:7h:209:ILE:HG13	2.15	0.47
12:8a:206:ALA:HA	12:8a:209:ASP:OD1	2.14	0.47
12:8c:237:THR:OG1	12:8c:241:ARG:NH1	2.47	0.47
13:8d:200:VAL:HG23	13:8d:256:GLN:HG2	1.96	0.47
12:8e:117:LEU:HA	12:8e:120:VAL:HG12	1.97	0.47
13:9b:200:VAL:HG23	13:9b:256:GLN:HG2	1.96	0.47
13:9f:200:VAL:HG23	13:9f:256:GLN:HG2	1.96	0.47
12:9g:341:PHE:HB3	12:9g:348:ASN:ND2	2.30	0.47
13:9h:240:ALA:O	13:9h:356:ASN:ND2	2.47	0.47
12:Aa:48:ASN:O	12:Aa:62:ARG:NH2	2.43	0.47
13:Ab:200:VAL:HG23	13:Ab:256:GLN:HG2	1.96	0.47
13:Ab:268:MET:HB3	13:Ab:378:ILE:HG23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ad:205:ASP:O	13:Ad:209:ILE:HG13	2.15	0.47
12:Ae:48:ASN:O	12:Ae:62:ARG:NH2	2.44	0.47
13:Af:200:VAL:HG23	13:Af:256:GLN:HG2	1.96	0.47
13:Ah:205:ASP:O	13:Ah:209:ILE:HG13	2.15	0.47
12:Ba:50:TYR:CE2	12:Ba:241:ARG:HD3	2.50	0.47
12:Be:86:ARG:CZ	12:Ce:278:SER:HB3	2.44	0.47
12:Be:275:SER:O	12:Be:279:GLN:HG3	2.15	0.47
13:Bf:236:SER:O	13:Bf:243:ARG:NH2	2.46	0.47
12:Bg:114:ASP:OD1	12:Bg:115:SER:N	2.45	0.47
12:Cg:55:THR:HG23	12:Dg:282:ARG:O	2.14	0.47
12:Cg:183:TYR:OH	12:Cg:388:MET:HB3	2.14	0.47
13:Ch:205:ASP:O	13:Ch:209:ILE:HG13	2.15	0.47
13:Ch:212:ILE:O	13:Ch:216:SER:OG	2.25	0.47
13:Db:268:MET:HB3	13:Db:378:ILE:HG23	1.95	0.47
12:Dc:31:ASP:HB2	12:Dc:32:PRO:HD2	1.96	0.47
12:De:74:ASP:HA	12:De:77:ARG:NH1	2.29	0.47
12:De:172:SER:HB2	12:De:205:GLU:CD	2.39	0.47
12:Dg:278:SER:O	12:Dg:278:SER:OG	2.32	0.47
1:0W:320:ILE:HD12	1:0W:327:LEU:HD12	1.96	0.47
1:0W:367:THR:CB	1:0W:370:HIS:CD2	2.95	0.47
1:0I:391:ALA:HB3	1:0I:396:LEU:HD13	1.96	0.47
1:0K:24:VAL:HG11	1:0K:46:LEU:HD21	1.96	0.47
1:0K:344:LEU:HD21	1:0K:356:THR:OG1	2.14	0.47
1:0A:108:ARG:NH1	1:0A:147:TRP:HE3	2.11	0.47
1:0D:76:ALA:O	1:0D:80:VAL:HG23	2.13	0.47
1:0D:193:ASP:O	1:0D:197:HIS:HD2	1.97	0.47
1:0E:285:LEU:O	1:0E:289:VAL:HG23	2.14	0.47
1:0F:118:ALA:HB1	1:0F:152:ILE:HG12	1.97	0.47
1:0F:156:ASN:HB3	1:0F:159:LEU:HD13	1.96	0.47
1:0F:224:LYS:O	1:0F:228:GLN:HG2	2.14	0.47
1:0F:334:GLU:OE1	39:4Q:133:ARG:NH2	2.48	0.47
1:0N:156:ASN:HD21	1:0N:159:LEU:HD13	1.79	0.47
1:0P:210:ALA:O	1:0P:214:LEU:HG	2.14	0.47
1:0Q:176:VAL:HG13	1:0Q:217:LEU:HD11	1.95	0.47
1:0Q:248:VAL:HG13	1:0Q:278:VAL:HG21	1.97	0.47
1:0S:196:LYS:HA	1:0S:239:HIS:HE1	1.80	0.47
1:0U:407:VAL:O	1:0U:411:LEU:HG	2.14	0.47
1:0X:286:ALA:HB1	1:0X:320:ILE:HG12	1.96	0.47
1:1C:248:VAL:HA	1:1C:253:PHE:HE2	1.79	0.47
2:1D:100:VAL:HG12	2:1D:102:CYS:H	1.80	0.47
2:1D:181:ARG:HA	2:1D:223:MET:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:193:VAL:HG22	2:1E:232:ALA:HB2	1.95	0.47
2:1F:212:THR:O	2:1F:216:THR:HG23	2.13	0.47
2:1G:176:HIS:O	2:1G:179:HIS:CE1	2.67	0.47
3:1H:949:LYS:HG2	47:6A:385:GLU:CG	2.38	0.47
3:1H:987:VAL:HG11	47:6A:396:SER:CA	2.44	0.47
3:1I:832:LEU:HD13	3:1I:875:ALA:HB2	1.96	0.47
4:1J:281:GLN:C	4:1J:282:LEU:HD12	2.40	0.47
4:1K:281:GLN:C	4:1K:282:LEU:HD12	2.40	0.47
6:1N:606:ALA:C	6:1N:641:TRP:CH2	2.89	0.47
6:1N:626:ASP:OD1	6:1N:627:GLU:HG3	2.13	0.47
6:1N:1007:PRO:HG2	6:1N:1027:MET:HG3	1.97	0.47
6:1N:1170:HIS:NE2	6:1N:1198:HIS:NE2	2.63	0.47
8:1P:690:LEU:HG	8:1P:692:PRO:HD2	1.97	0.47
9:1Q:395:TRP:HD1	9:1Q:405:TRP:CD1	2.32	0.47
10:1R:415:TYR:HB3	13:Ab:127:ASP:O	2.14	0.47
12:1c:183:TYR:OH	12:1c:388:MET:HB3	2.14	0.47
12:1c:311:LEU:HD23	12:1c:342:VAL:HG21	1.96	0.47
13:1f:9:ILE:HD13	13:1f:150:GLY:HA2	1.96	0.47
13:1f:200:VAL:HG23	13:1f:256:GLN:HG2	1.96	0.47
12:1g:248:ALA:HA	12:1g:252:LYS:HE3	1.96	0.47
12:1g:311:LEU:HD23	12:1g:342:VAL:HG21	1.96	0.47
13:1h:200:VAL:HG23	13:1h:256:GLN:HG2	1.96	0.47
14:2G:106:TRP:CZ2	12:Be:77:ARG:CZ	2.98	0.47
22:2P:100:UNK:HA	13:6d:221:ARG:HH21	1.79	0.47
23:2R:97:UNK:N	12:3a:337:ASN:OD1	2.47	0.47
25:2W:40:UNK:CB	13:2b:426:ALA:HB3	2.44	0.47
13:2d:137:VAL:O	13:2d:168:GLY:HA2	2.14	0.47
13:2d:268:MET:HB3	13:2d:378:ILE:HG23	1.95	0.47
12:2e:145:SER:O	12:2e:149:THR:HG23	2.15	0.47
12:2g:202:LEU:HD22	12:2g:300:MET:HE2	1.96	0.47
29:3E:1184:ILE:HG21	13:5d:109:THR:HG22	1.95	0.47
31:3I:312:ARG:HH22	32:3K:386:ASP:C	2.22	0.47
32:3K:181:VAL:HG22	32:3K:223:GLU:HB2	1.97	0.47
34:3M:344:ALA:HB1	34:3M:348:LYS:NZ	2.29	0.47
34:3M:457:ALA:HA	34:3M:460:ARG:CZ	2.45	0.47
34:3Q:74:LEU:HB3	34:3Q:313:HIS:CD2	2.49	0.47
34:3Q:338:LEU:O	34:3Q:342:GLN:HG2	2.14	0.47
34:3Q:378:SER:O	34:3Q:382:LEU:HG	2.14	0.47
34:3S:255:HIS:HD2	34:3S:474:TRP:CZ2	2.32	0.47
34:3T:324:HIS:CG	34:3T:407:MET:HE1	2.50	0.47
34:3V:254:MET:HG3	34:3V:477:GLU:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3Y:42:LEU:HD13	34:3Y:453:ARG:HE	1.79	0.47
34:3Y:248:PHE:HE2	34:4A:485:TYR:CA	2.28	0.47
34:3Z:45:ASN:HB3	34:3Z:284:PHE:CE2	2.49	0.47
12:3a:66:MET:SD	12:3a:116:VAL:HG11	2.54	0.47
12:3c:159:TYR:HB3	12:3c:162:ARG:HG3	1.96	0.47
12:3c:177:ASP:O	13:3d:352:LYS:HA	2.13	0.47
12:3e:86:ARG:HA	12:4e:281:TYR:CD1	2.50	0.47
34:4B:338:LEU:HD11	34:4B:393:ALA:HB1	1.95	0.47
35:4C:555:GLU:CD	35:4C:705:ARG:NH1	2.72	0.47
36:4D:167:LEU:HD22	36:4D:169:MET:HE2	1.97	0.47
36:4D:233:LEU:HD21	36:4D:241:VAL:CG2	2.43	0.47
37:4E:577:LEU:CD2	43:5L:52:LEU:HD22	2.44	0.47
37:4E:578:ASP:C	43:5L:42:TYR:OH	2.58	0.47
37:4E:583:GLU:CB	43:5L:36:TYR:N	2.78	0.47
37:4F:422:TRP:CD1	37:4F:849:LEU:HB3	2.49	0.47
37:4F:426:VAL:HG11	37:4F:853:VAL:CG2	2.45	0.47
37:4F:525:GLU:HG3	37:4F:1079:SER:HA	1.95	0.47
37:4F:541:ALA:HB1	38:4K:46:ALA:O	2.13	0.47
37:4F:854:TYR:CZ	38:4N:82:TYR:HE2	2.32	0.47
37:4F:1332:SER:O	38:4N:27:ALA:N	2.48	0.47
37:4G:534:HIS:HB2	37:4G:687:MET:HE1	1.96	0.47
37:4G:567:LEU:CD1	38:4I:32:GLU:CD	2.87	0.47
37:4G:1081:HIS:O	37:4G:1082:LEU:O	2.32	0.47
37:4G:1083:ILE:CD1	38:4L:34:ALA:CB	2.92	0.47
37:4G:1329:GLY:O	37:4G:1331:TRP:CE3	2.49	0.47
37:4G:1334:GLU:CB	37:4G:1340:PRO:HB3	2.43	0.47
37:4G:1715:GLY:HA3	37:4G:1754:TYR:HB2	1.96	0.47
37:4H:422:TRP:CD1	37:4H:849:LEU:HB3	2.49	0.47
37:4H:972:PHE:HD1	38:4M:41:LYS:CD	2.04	0.47
37:4H:1082:LEU:HG	38:4M:36:VAL:HG12	1.95	0.47
38:4I:54:GLU:HA	38:4I:58:VAL:CG2	2.43	0.47
38:4J:38:VAL:O	38:4J:41:LYS:CB	2.63	0.47
38:4L:80:LEU:C	38:4L:82:TYR:H	2.22	0.47
38:4M:36:VAL:O	38:4M:37:GLY:C	2.55	0.47
38:4O:51:GLN:O	38:4O:54:GLU:HG2	2.15	0.47
39:4S:12:ALA:HB3	39:4S:13:PRO:HD3	1.97	0.47
39:4S:78:ARG:NH2	40:4U:504:HIS:O	2.47	0.47
40:4T:614:LEU:HD12	40:4T:614:LEU:HA	1.69	0.47
40:4U:638:THR:O	40:4U:640:GLU:N	2.47	0.47
12:4a:163:MET:HE3	12:4a:250:LEU:HB3	1.97	0.47
13:4f:205:ASP:O	13:4f:209:ILE:HG13	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:5A:22:THR:H	43:5L:192:ARG:N	2.12	0.47
42:5E:143:VAL:HG22	43:5I:144:TYR:HD2	1.71	0.47
43:5L:40:ASN:CG	43:5L:41:ASP:N	2.73	0.47
44:5Q:93:PHE:HB3	44:5Q:142:TYR:HB2	1.96	0.47
44:5V:97:ASP:CG	44:5V:98:LYS:H	2.21	0.47
13:5b:268:MET:HB3	13:5b:378:ILE:HG23	1.95	0.47
12:5c:50:TYR:CE2	12:5c:241:ARG:HD3	2.49	0.47
13:5d:205:ASP:O	13:5d:209:ILE:HG13	2.15	0.47
12:5g:140:GLY:HA2	12:5g:184:ASN:HB2	1.96	0.47
13:5h:205:ASP:O	13:5h:209:ILE:HG13	2.15	0.47
47:6A:116:ASN:O	47:6A:119:ARG:HB2	2.14	0.47
47:6A:969:ALA:CB	47:6A:1094:VAL:HG13	2.44	0.47
47:6B:774:ALA:HA	47:6B:897:LEU:HD13	1.96	0.47
47:6B:1085:ALA:O	47:6B:1089:LYS:NZ	2.40	0.47
3:6D:890:ARG:HB3	3:6D:892:ILE:HG13	1.96	0.47
3:6D:991:ILE:HG22	3:6D:995:PHE:HE2	1.79	0.47
48:6E:639:PRO:HB3	48:6E:655:LEU:HB2	1.97	0.47
48:6F:510:VAL:HG12	48:6F:564:THR:HA	1.96	0.47
48:6F:864:GLN:H	48:6F:885:VAL:HG22	1.78	0.47
48:6F:989:LYS:C	48:6F:991:LEU:H	2.22	0.47
49:6G:346:GLU:HB3	49:6G:347:PRO:HD3	1.95	0.47
49:6I:46:GLU:N	49:6I:46:GLU:CD	2.72	0.47
51:6M:1238:PRO:HB2	51:6M:1342:PRO:HA	1.97	0.47
51:6M:1617:ARG:HD2	51:6M:1617:ARG:H	1.79	0.47
51:6N:1238:PRO:HB2	51:6N:1342:PRO:HA	1.97	0.47
51:6N:1239:LEU:O	51:6N:1321:LEU:HA	2.15	0.47
51:6N:1617:ARG:HD2	51:6N:1617:ARG:H	1.79	0.47
12:6c:330:MET:HB3	12:6c:349:VAL:HG21	1.95	0.47
13:6d:268:MET:HB3	13:6d:378:ILE:HG23	1.95	0.47
12:6e:16:ILE:HD11	12:6e:229:ILE:HG21	1.96	0.47
13:6h:268:MET:HB3	13:6h:378:ILE:HG23	1.95	0.47
12:7e:16:ILE:HD11	12:7e:229:ILE:HG21	1.97	0.47
12:7e:100:ASN:HD21	12:7e:401:GLU:CD	2.22	0.47
12:7g:31:ASP:HB2	12:7g:32:PRO:HD2	1.97	0.47
12:8g:21:TRP:CZ3	12:8g:61:PRO:HB3	2.49	0.47
12:9a:50:TYR:CE2	12:9a:241:ARG:HD3	2.50	0.47
13:9d:240:ALA:O	13:9d:356:ASN:ND2	2.47	0.47
13:9d:268:MET:HB3	13:9d:378:ILE:HG23	1.95	0.47
12:9e:50:TYR:CE2	12:9e:241:ARG:HD3	2.49	0.47
12:9e:377:MET:HE2	12:9e:377:MET:HB2	1.61	0.47
12:9e:404:ASP:HB3	12:9e:407:GLU:OE1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:9f:137:VAL:O	13:9f:168:GLY:HA2	2.14	0.47
12:Aa:18:ALA:HB2	12:Aa:76:VAL:HG23	1.97	0.47
12:Aa:391:ARG:HG3	13:Ab:346:TRP:HB3	1.95	0.47
13:Ab:9:ILE:HD13	13:Ab:150:GLY:HA2	1.96	0.47
13:Af:9:ILE:HD13	13:Af:150:GLY:HA2	1.96	0.47
13:Af:268:MET:HB3	13:Af:378:ILE:HG23	1.95	0.47
12:Ag:116:VAL:O	12:Ag:120:VAL:HG23	2.14	0.47
12:Ba:83:GLN:C	12:Ca:281:TYR:HH	2.10	0.47
12:Ba:207:LEU:HD23	12:Ba:210:ILE:HD11	1.95	0.47
13:Bb:236:SER:O	13:Bb:243:ARG:NH2	2.46	0.47
12:Bc:267:MET:HG2	12:Bc:301:CYS:HB3	1.96	0.47
12:Bc:311:LEU:HD23	12:Bc:342:VAL:HG21	1.96	0.47
12:Bc:324:LYS:HA	12:Bc:327:ASP:OD2	2.14	0.47
13:Bd:240:ALA:O	13:Bd:356:ASN:ND2	2.47	0.47
12:Be:185:ALA:O	12:Be:189:VAL:HG23	2.13	0.47
13:Bf:210:TYR:HH	12:Bg:323:THR:HG1	1.43	0.47
12:Bg:101:TRP:HD1	12:Bg:145:SER:OG	1.97	0.47
13:Bh:236:SER:O	13:Bh:243:ARG:NH2	2.46	0.47
13:Cb:205:ASP:O	13:Cb:209:ILE:HG13	2.15	0.47
12:Cg:60:VAL:HG21	12:Cg:86:ARG:NH2	2.30	0.47
13:Db:9:ILE:HD13	13:Db:150:GLY:HA2	1.96	0.47
13:Df:179:THR:O	12:Dg:350:LYS:HD2	2.15	0.47
1:0J:76:ALA:O	1:0J:80:VAL:HG23	2.14	0.47
1:0I:94:GLU:HA	1:0I:100:LYS:HD3	1.96	0.47
1:0I:336:ALA:O	1:0I:340:LEU:HG	2.14	0.47
1:0K:154:GLY:HA2	1:0K:197:HIS:NE2	2.30	0.47
1:0K:336:ALA:O	1:0K:340:LEU:HG	2.14	0.47
1:0A:137:PHE:CZ	4:1J:72:PHE:HB3	2.48	0.47
1:0B:367:THR:CB	1:0B:370:HIS:CD2	2.96	0.47
1:0D:270:HIS:O	1:0D:274:VAL:HG23	2.14	0.47
1:0E:343:ALA:O	1:0E:346:GLU:C	2.58	0.47
1:0G:224:LYS:O	1:0G:228:GLN:HG2	2.15	0.47
1:0G:367:THR:HB	1:0G:370:HIS:HD2	1.74	0.47
1:0G:368:PRO:CG	44:5O:27:GLY:HA2	2.38	0.47
1:0L:129:SER:O	1:0L:132:THR:OG1	2.24	0.47
1:0O:97:ARG:HB3	1:0O:138:ASP:OD2	2.15	0.47
1:0O:159:LEU:O	1:0O:163:VAL:HG23	2.15	0.47
1:0O:413:HIS:CD2	1:0O:416:ALA:CB	2.97	0.47
1:0O:417:LEU:O	1:0O:421:VAL:HG23	2.14	0.47
1:0P:91:SER:HB3	1:0P:103:ALA:HB2	1.95	0.47
1:0R:32:GLN:HA	47:6B:247:VAL:HG11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0R:354:SER:HB2	1:0R:399:LYS:HG3	1.96	0.47
1:0R:374:VAL:O	1:0R:377:THR:OG1	2.23	0.47
1:0S:248:VAL:HA	1:0S:253:PHE:HE2	1.80	0.47
1:0U:302:ILE:HG23	1:0U:310:ARG:HE	1.80	0.47
1:0X:107:LEU:HD22	1:0X:121:VAL:HG13	1.96	0.47
1:0Y:412:THR:OG1	1:0Y:413:HIS:N	2.38	0.47
1:1A:308:ASN:OD1	5:1L:573:ASN:HA	2.14	0.47
1:1B:85:LEU:HA	1:1B:88:LEU:HD12	1.95	0.47
1:1B:104:ALA:O	1:1B:108:ARG:HG3	2.14	0.47
1:1B:278:VAL:CG2	1:1B:285:LEU:HD23	2.44	0.47
1:1C:24:VAL:HG11	1:1C:46:LEU:HD21	1.96	0.47
1:1C:69:ALA:O	1:1C:113:HIS:CE1	2.59	0.47
1:1C:404:LEU:HD23	1:1C:404:LEU:C	2.40	0.47
1:1C:411:LEU:HD23	1:1C:413:HIS:N	2.30	0.47
2:1D:398:LEU:HD21	2:1D:433:GLY:HA3	1.97	0.47
3:1H:262:GLU:CD	47:6A:347:ARG:HG2	2.40	0.47
3:1H:916:LEU:HD23	3:1H:921:VAL:HG22	1.96	0.47
3:1H:983:ARG:NE	47:6A:392:LEU:HD21	2.29	0.47
6:1N:317:ALA:HA	6:1N:320:GLU:CD	2.39	0.47
6:1N:1016:LEU:HD13	6:1N:1069:LEU:HB3	1.97	0.47
6:1N:1232:GLU:HG3	6:1N:1241:ALA:HB2	1.97	0.47
6:1N:1848:ARG:O	6:1N:1852:THR:HG23	2.14	0.47
10:1R:430:HIS:CD2	12:Aa:77:ARG:HH11	2.32	0.47
10:1R:445:TRP:CE3	12:Ba:231:ALA:HB2	2.49	0.47
10:1S:375:GLU:CD	10:1S:378:LEU:HD12	2.39	0.47
13:1b:205:ASP:O	13:1b:209:ILE:HG13	2.15	0.47
13:1d:205:ASP:O	13:1d:209:ILE:HG13	2.15	0.47
12:1e:272:PRO:HD3	12:1e:364:SER:HA	1.97	0.47
13:1f:205:ASP:O	13:1f:209:ILE:HG13	2.15	0.47
13:1h:205:ASP:O	13:1h:209:ILE:HG13	2.15	0.47
12:2a:179:VAL:HA	13:2b:349:THR:OG1	2.14	0.47
12:2c:202:LEU:HD22	12:2c:300:MET:HE2	1.97	0.47
12:2g:229:ILE:HA	12:2g:300:MET:HE1	1.97	0.47
30:3G:668:GLU:HA	30:3G:671:PHE:HD2	1.79	0.47
31:3I:158:VAL:HB	31:3I:159:PRO:HD3	1.96	0.47
32:3J:177:GLU:H	32:3J:227:ALA:CB	2.28	0.47
32:3J:333:GLY:HA3	12:9a:264:HIS:CD2	2.50	0.47
34:3M:312:TRP:HA	34:3M:315:GLN:CD	2.40	0.47
34:3O:77:GLN:O	34:3O:81:GLU:HG3	2.14	0.47
34:3T:51:GLY:O	34:3T:55:GLN:HG2	2.15	0.47
34:3U:97:LEU:HD22	34:3U:394:GLU:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3W:352:LEU:HD12	34:3W:382:LEU:HD11	1.96	0.47
12:3a:139:LEU:O	12:3a:171:PRO:HD3	2.14	0.47
12:3a:248:ALA:CB	12:3a:350:LYS:HZ1	2.28	0.47
12:3a:285:THR:HG22	12:3a:287:PRO:CD	2.38	0.47
12:3g:179:VAL:HG23	13:3h:352:LYS:HB2	1.97	0.47
35:4C:299:THR:CG2	35:4C:389:ARG:HB3	2.42	0.47
35:4C:578:ALA:O	35:4C:582:GLU:HG2	2.14	0.47
37:4E:580:GLU:C	43:5L:35:LYS:HE2	2.39	0.47
37:4F:935:ARG:HD3	38:4N:49:ILE:CG1	2.44	0.47
37:4F:938:SER:OG	37:4F:955:GLY:HA2	2.15	0.47
37:4F:1753:GLN:NE2	38:4N:24:THR:N	2.62	0.47
37:4G:793:THR:HG23	38:4I:83:TYR:CE2	2.50	0.47
37:4G:1082:LEU:CD2	37:4G:1101:LEU:CD1	2.93	0.47
37:4H:776:HIS:CD2	37:4H:1783:LEU:HD12	2.49	0.47
37:4H:1081:HIS:CG	37:4H:1338:PHE:CE1	3.03	0.47
37:4H:1396:LEU:HA	37:4H:1399:LEU:HD12	1.97	0.47
38:4I:80:LEU:C	38:4I:82:TYR:N	2.71	0.47
38:4L:31:ALA:HA	38:4L:34:ALA:H	1.78	0.47
38:4L:80:LEU:C	38:4L:82:TYR:N	2.71	0.47
38:4M:54:GLU:HA	38:4M:58:VAL:CG2	2.43	0.47
39:4Q:12:ALA:HB3	39:4Q:13:PRO:HD3	1.97	0.47
40:4T:638:THR:O	40:4T:640:GLU:N	2.47	0.47
40:4V:726:PRO:HA	40:4V:818:MET:CE	2.45	0.47
13:4b:240:ALA:O	13:4b:356:ASN:ND2	2.47	0.47
12:4c:50:TYR:CE2	12:4c:241:ARG:HD3	2.50	0.47
12:4c:341:PHE:HB3	12:4c:348:ASN:ND2	2.29	0.47
12:4c:397:TRP:CD2	13:4d:257:THR:HG22	2.50	0.47
13:4d:240:ALA:O	13:4d:356:ASN:ND2	2.47	0.47
13:4f:137:VAL:O	13:4f:168:GLY:HA2	2.14	0.47
13:4h:205:ASP:O	13:4h:209:ILE:HG13	2.15	0.47
41:5A:120:TYR:H	43:5L:168:GLU:HG3	1.76	0.47
42:5H:96:ALA:HB3	43:5L:44:THR:CG2	2.45	0.47
42:5H:137:TYR:HA	43:5L:46:PRO:C	2.33	0.47
42:5H:143:VAL:HG21	43:5L:145:SER:C	2.40	0.47
43:5K:112:PRO:CG	44:5U:116:LEU:HG	2.40	0.47
12:5a:276:ARG:HA	12:5a:279:GLN:HE21	1.79	0.47
13:5b:406:HIS:CG	12:5c:261:PRO:HD3	2.48	0.47
12:5c:31:ASP:HB2	12:5c:32:PRO:HD2	1.96	0.47
13:5d:240:ALA:O	13:5d:356:ASN:ND2	2.47	0.47
13:5f:240:ALA:O	13:5f:356:ASN:ND2	2.47	0.47
12:5g:159:TYR:HB3	12:5g:162:ARG:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5h:233:GLN:HG3	13:5h:368:LEU:HD13	1.96	0.47
47:6B:189:GLY:HA2	47:6B:192:ARG:HH11	1.80	0.47
3:6D:617:VAL:HG21	3:6D:645:LEU:HD12	1.97	0.47
48:6E:613:LYS:HA	48:6E:618:TRP:H	1.79	0.47
48:6E:864:GLN:H	48:6E:885:VAL:HG22	1.78	0.47
50:6K:314:ASP:N	50:6K:314:ASP:OD2	2.46	0.47
50:6K:419:LEU:HD12	50:6K:484:PHE:CE2	2.49	0.47
50:6K:458:ASP:CG	50:6K:459:ASN:H	2.22	0.47
50:6L:25:ASP:O	50:6L:26:ARG:HG3	2.14	0.47
50:6L:419:LEU:HD12	50:6L:484:PHE:CE2	2.49	0.47
50:6L:516:LEU:HD12	50:6L:516:LEU:H	1.79	0.47
51:6M:1239:LEU:O	51:6M:1321:LEU:HA	2.15	0.47
51:6M:1649:ASP:HB2	51:6M:1651:ASP:OD2	2.15	0.47
51:6N:1399:VAL:HA	51:6N:1402:ARG:HG2	1.96	0.47
12:6a:161:ASP:O	12:6a:251:ARG:NH2	2.48	0.47
13:6b:224:TYR:CD1	12:6c:323:THR:HG21	2.49	0.47
12:6c:39:ASP:N	12:6c:39:ASP:OD1	2.45	0.47
12:6c:236:ILE:HG12	12:6c:368:ILE:HD11	1.95	0.47
13:6d:200:VAL:HG23	13:6d:256:GLN:HG2	1.96	0.47
13:6f:200:VAL:HG23	13:6f:256:GLN:HG2	1.96	0.47
13:6f:268:MET:HB3	13:6f:378:ILE:HG23	1.95	0.47
13:7b:205:ASP:O	13:7b:209:ILE:HG13	2.15	0.47
12:7c:207:LEU:HB3	12:7c:225:LEU:HD22	1.96	0.47
13:7f:205:ASP:O	13:7f:209:ILE:HG13	2.15	0.47
13:8b:200:VAL:HG23	13:8b:256:GLN:HG2	1.96	0.47
12:8e:161:ASP:O	12:8e:251:ARG:NH2	2.48	0.47
13:8h:240:ALA:O	13:8h:356:ASN:ND2	2.47	0.47
12:9g:202:LEU:HD22	12:9g:300:MET:HE2	1.96	0.47
12:Aa:102:ALA:HB2	12:Aa:398:TYR:CD2	2.50	0.47
13:Ad:222:PRO:O	12:Ae:324:LYS:HB3	2.14	0.47
12:Ag:68:LEU:HD21	12:Ag:147:MET:SD	2.55	0.47
12:Ag:159:TYR:HB3	12:Ag:162:ARG:HG3	1.95	0.47
12:Ag:311:LEU:HD23	12:Ag:342:VAL:HG21	1.96	0.47
13:Bb:233:GLN:HG3	13:Bb:368:LEU:HD13	1.96	0.47
12:Bc:83:GLN:O	12:Cc:281:TYR:OH	2.17	0.47
12:Bc:141:GLY:O	12:Bc:145:SER:OG	2.26	0.47
13:Bd:205:ASP:O	13:Bd:209:ILE:HG13	2.15	0.47
13:Bf:205:ASP:O	13:Bf:209:ILE:HG13	2.15	0.47
12:Bg:207:LEU:HB3	12:Bg:225:LEU:HD22	1.96	0.47
12:Bg:311:LEU:HD23	12:Bg:342:VAL:HG21	1.96	0.47
12:Cc:391:ARG:NH2	13:Cd:438:GLU:O	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Cf:205:ASP:O	13:Cf:209:ILE:HG13	2.15	0.47
12:Cg:73:MET:HE2	12:Cg:90:PHE:HD2	1.79	0.47
12:Dg:311:LEU:HD23	12:Dg:342:VAL:HG21	1.96	0.47
1:0H:218:VAL:HG12	1:0H:255:LYS:HB3	1.96	0.47
1:0J:127:LEU:HD13	1:0J:163:VAL:HA	1.96	0.47
1:0W:86:PRO:HA	1:0W:89:VAL:HG22	1.97	0.47
1:0W:105:PHE:O	1:0W:108:ARG:HG2	2.15	0.47
1:0A:7:LEU:O	1:0A:11:GLU:HG3	2.15	0.47
1:0A:193:ASP:HA	1:0A:196:LYS:HE3	1.96	0.47
1:0B:227:ARG:HG3	1:0B:267:VAL:HG22	1.96	0.47
1:0C:194:ILE:HG23	1:0C:201:LEU:HD13	1.97	0.47
1:0D:168:ALA:O	1:0D:172:LEU:HG	2.15	0.47
1:0E:128:ASP:OD1	1:0E:129:SER:N	2.47	0.47
1:0F:67:ARG:HA	1:0F:70:ASN:ND2	2.30	0.47
1:0L:37:LEU:HG	1:0L:42:ALA:CB	2.44	0.47
1:0L:56:SER:HB3	12:8e:404:ASP:OD2	2.14	0.47
1:0N:269:LYS:O	1:0N:273:THR:HG23	2.14	0.47
1:0R:15:LYS:O	1:0R:18:VAL:HG22	2.14	0.47
1:0R:358:TRP:NE1	47:6B:278:GLU:OE2	2.42	0.47
1:0R:411:LEU:HD23	1:0R:417:LEU:HG	1.96	0.47
1:0S:379:CYS:O	1:0S:383:LEU:HG	2.14	0.47
1:0T:306:ALA:HB3	1:0T:309:ASN:ND2	2.30	0.47
1:0T:380:LEU:HD22	1:0T:404:LEU:HD23	1.96	0.47
1:0U:86:PRO:HA	1:0U:89:VAL:HG22	1.96	0.47
1:0U:355:ALA:O	1:0U:359:THR:HG23	2.15	0.47
1:1B:219:ILE:HG13	1:1B:255:LYS:CD	2.35	0.47
2:1D:328:ALA:O	2:1D:331:LYS:HG3	2.15	0.47
2:1E:134:SER:OG	2:1E:135:VAL:O	2.30	0.47
2:1F:98:ALA:O	2:1F:101:SER:HB3	2.15	0.47
5:1L:583:LEU:HD12	5:1L:584:GLY:H	1.79	0.47
6:1N:362:LEU:O	6:1N:366:TRP:HE3	1.96	0.47
6:1N:2678:LEU:O	6:1N:2684:VAL:HG13	2.14	0.47
7:1O:161:LEU:HD23	8:1P:910:CYS:HA	1.96	0.47
7:1O:1483:GLN:NE2	44:5V:118:GLU:O	2.47	0.47
10:1R:110:PHE:HE1	12:9c:106:TYR:CG	2.32	0.47
10:1R:156:TYR:HB2	12:9c:162:ARG:NH1	2.29	0.47
10:1S:169:LEU:HB2	13:Af:393:HIS:CD2	2.49	0.47
12:1a:138:SER:OG	53:1a:501:GDP:H5'	2.14	0.47
13:1b:212:ILE:O	13:1b:216:SER:OG	2.25	0.47
13:1d:9:ILE:HD13	13:1d:150:GLY:HA2	1.96	0.47
12:1g:229:ILE:HA	12:1g:300:MET:HE1	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2R:80:UNK:H	12:3a:213:ARG:HH22	1.61	0.47
24:2U:202:ARG:HA	12:Cc:194:GLU:OE1	2.14	0.47
24:2V:150:PHE:HD1	24:2V:151:PHE:CE1	2.33	0.47
13:2b:222:PRO:HD2	12:2c:324:LYS:CG	2.40	0.47
13:2h:137:VAL:O	13:2h:168:GLY:HA2	2.14	0.47
30:3F:437:ILE:HG22	30:3F:438:GLU:N	2.21	0.47
30:3F:470:VAL:O	30:3F:473:MET:HG3	2.13	0.47
30:3G:544:LEU:CD2	13:7h:112:LYS:HZ2	2.27	0.47
30:3G:746:ARG:O	30:3G:750:MET:HG2	2.15	0.47
30:3G:754:GLN:OE1	12:6a:105:HIS:HD2	1.97	0.47
31:3H:130:ALA:O	31:3H:134:THR:HG23	2.15	0.47
31:3I:109:LEU:HD21	31:3I:214:ARG:HG3	1.96	0.47
31:3I:272:ILE:HG12	32:3K:340:TYR:HA	1.96	0.47
31:3I:312:ARG:NH2	32:3K:386:ASP:O	2.45	0.47
32:3J:56:TYR:HB3	32:3J:116:TYR:HE1	1.79	0.47
32:3K:324:ASN:HB3	32:3K:328:GLY:HA3	1.97	0.47
34:3M:459:ILE:HG13	34:3M:460:ARG:N	2.28	0.47
34:3N:284:PHE:CE2	34:3N:288:MET:HE3	2.49	0.47
34:3P:431:GLY:O	34:3P:435:SER:HB3	2.14	0.47
34:3P:500:TYR:CZ	34:3P:504:LEU:HD21	2.50	0.47
34:3S:251:LEU:HA	34:3S:481:LEU:HD13	1.95	0.47
34:3S:258:TYR:OH	34:3S:477:GLU:HB2	2.14	0.47
34:3S:280:TRP:HB2	34:3S:452:HIS:NE2	2.29	0.47
34:3U:330:GLU:OE2	34:3U:403:ARG:NH1	2.47	0.47
34:3V:404:HIS:CE1	34:3V:408:ARG:HD2	2.49	0.47
12:3a:99:ASN:HA	12:3a:142:GLY:H	1.79	0.47
12:3a:396:HIS:HE2	13:3b:261:PRO:C	2.19	0.47
13:3b:9:ILE:HD13	13:3b:150:GLY:HA2	1.96	0.47
13:3b:200:VAL:HG23	13:3b:256:GLN:HG2	1.96	0.47
13:3b:210:TYR:CE1	12:3c:324:LYS:HB2	2.49	0.47
13:3f:9:ILE:HD13	13:3f:150:GLY:HA2	1.96	0.47
34:4A:254:MET:HG3	34:4A:477:GLU:OE1	2.14	0.47
34:4A:349:LEU:HD23	34:4A:382:LEU:CD1	2.44	0.47
34:4B:113:GLU:OE1	34:4B:117:ARG:HG3	2.15	0.47
35:4C:451:GLN:HE21	35:4C:473:TYR:HE1	1.63	0.47
35:4C:570:ALA:CB	43:5L:110:GLN:OE1	2.61	0.47
36:4D:136:GLU:HG2	36:4D:139:ARG:HE	1.80	0.47
37:4E:688:LEU:HD21	37:4E:786:GLN:HE21	1.79	0.47
37:4E:852:LYS:NZ	38:4O:74:ASP:HB2	2.29	0.47
37:4E:1108:PHE:CE1	43:5L:137:ARG:CG	2.90	0.47
37:4E:1109:ARG:C	43:5L:140:LYS:HD2	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:1385:ALA:CB	37:4E:1455:LEU:HD23	2.42	0.47
37:4F:537:LEU:HA	37:4F:537:LEU:HD23	1.64	0.47
37:4F:544:MET:SD	38:4N:70:LYS:O	2.73	0.47
37:4F:1082:LEU:CD2	38:4N:42:ILE:H	2.27	0.47
37:4F:1286:THR:O	39:4S:27:GLU:HG2	2.15	0.47
37:4F:1333:VAL:HA	38:4N:26:GLU:O	2.14	0.47
37:4F:1483:ALA:HB1	37:4F:1510:VAL:HA	1.96	0.47
37:4H:508:PRO:CD	38:4M:70:LYS:HZ2	2.22	0.47
37:4H:536:LEU:O	37:4H:537:LEU:C	2.57	0.47
37:4H:780:ASP:OD1	37:4H:781:GLY:N	2.47	0.47
37:4H:954:SER:CB	38:4M:48:PRO:CA	2.88	0.47
37:4H:1366:VAL:HG21	37:4H:1396:LEU:HD22	1.95	0.47
38:4K:25:PRO:HB3	42:5G:96:ALA:HB2	1.94	0.47
38:4N:38:VAL:O	38:4N:41:LYS:CB	2.63	0.47
38:4N:80:LEU:C	38:4N:82:TYR:H	2.22	0.47
38:4N:80:LEU:C	38:4N:82:TYR:N	2.71	0.47
40:4T:726:PRO:HA	40:4T:818:MET:CE	2.45	0.47
12:4g:159:TYR:HB3	12:4g:162:ARG:HG3	1.96	0.47
13:4h:15:GLN:NE2	54:4h:501:GTP:O6	2.48	0.47
42:5E:67:GLY:O	42:5E:71:THR:HG23	2.14	0.47
42:5E:107:ARG:HG3	42:5E:108:PRO:HD2	1.96	0.47
42:5F:107:ARG:HG3	42:5F:108:PRO:HD2	1.96	0.47
42:5F:136:HIS:HB3	42:5F:139:LEU:CD1	2.44	0.47
42:5H:94:CYS:HA	42:5H:97:HIS:CB	2.44	0.47
42:5H:129:MET:HE3	42:5H:134:LEU:CG	2.44	0.47
42:5H:133:LEU:HG	43:5L:46:PRO:CB	2.36	0.47
43:5I:40:ASN:CG	43:5I:41:ASP:N	2.73	0.47
13:5b:205:ASP:O	13:5b:209:ILE:HG13	2.15	0.47
12:5e:16:ILE:HD11	12:5e:229:ILE:HG21	1.97	0.47
12:5e:161:ASP:O	12:5e:251:ARG:NH2	2.47	0.47
13:5f:205:ASP:O	13:5f:209:ILE:HG13	2.15	0.47
12:5g:341:PHE:HB3	12:5g:348:ASN:ND2	2.28	0.47
47:6A:189:GLY:HA2	47:6A:192:ARG:HH11	1.80	0.47
47:6A:774:ALA:HA	47:6A:897:LEU:HD13	1.96	0.47
47:6A:1182:GLY:HA3	47:6A:1291:LEU:HD21	1.95	0.47
47:6A:1747:LEU:HG	47:6A:1747:LEU:O	2.14	0.47
47:6B:877:SER:CB	48:6E:61:ARG:H	2.28	0.47
47:6B:1747:LEU:HG	47:6B:1747:LEU:O	2.14	0.47
48:6E:303:LEU:HD13	48:6E:306:VAL:H	1.80	0.47
48:6E:750:VAL:HA	48:6E:864:GLN:HG2	1.97	0.47
48:6E:1019:ARG:O	48:6E:1026:THR:HG21	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6G:117:ILE:HG23	49:6G:136:MET:CE	2.42	0.47
49:6H:286:MET:HG2	49:6H:333:VAL:HG21	1.95	0.47
49:6I:204:ALA:H	49:6I:305:LYS:HZ2	1.62	0.47
49:6J:286:MET:HG2	49:6J:333:VAL:HG21	1.95	0.47
49:6J:295:THR:OG1	49:6J:297:ASP:OD2	2.23	0.47
50:6K:12:LEU:H	50:6K:149:THR:HG22	1.79	0.47
50:6K:25:ASP:O	50:6K:26:ARG:HG3	2.14	0.47
50:6K:516:LEU:HD12	50:6K:516:LEU:H	1.79	0.47
50:6L:151:PRO:HB2	50:6L:154:PHE:CD1	2.49	0.47
50:6L:314:ASP:N	50:6L:314:ASP:OD2	2.46	0.47
50:6L:504:LYS:HZ3	50:6L:506:LYS:H	1.63	0.47
51:6M:1303:PHE:CZ	51:6M:1334:GLU:HB3	2.49	0.47
51:6M:1606:LEU:HD13	51:6M:1653:ILE:HG12	1.96	0.47
51:6M:2295:GLU:OE1	51:6M:2296:LYS:HD3	2.14	0.47
51:6N:1303:PHE:CZ	51:6N:1334:GLU:HB3	2.49	0.47
51:6N:1649:ASP:HB2	51:6N:1651:ASP:OD2	2.15	0.47
13:6b:200:VAL:HG23	13:6b:256:GLN:HG2	1.96	0.47
12:6c:179:VAL:O	12:6c:388:MET:HE1	2.15	0.47
13:6d:240:ALA:O	13:6d:356:ASN:ND2	2.47	0.47
12:6g:27:GLU:OE2	12:6g:318:ARG:NH2	2.36	0.47
12:6g:86:ARG:HA	12:7g:281:TYR:CD1	2.49	0.47
12:6g:116:VAL:O	12:6g:120:VAL:HG23	2.15	0.47
13:6h:200:VAL:HG23	13:6h:256:GLN:HG2	1.96	0.47
13:6h:240:ALA:O	13:6h:356:ASN:ND2	2.47	0.47
12:7a:16:ILE:HD11	12:7a:229:ILE:HG21	1.97	0.47
12:7a:21:TRP:CZ2	12:7a:63:ALA:HB2	2.50	0.47
12:7c:103:LYS:HG3	12:7c:401:GLU:HG3	1.97	0.47
13:7d:9:ILE:HD13	13:7d:150:GLY:HA2	1.96	0.47
13:7d:205:ASP:O	13:7d:209:ILE:HG13	2.14	0.47
12:7e:174:LYS:HD2	12:7e:175:VAL:HB	1.96	0.47
12:8c:330:MET:HB3	12:8c:349:VAL:HG11	1.97	0.47
12:8e:50:TYR:CE2	12:8e:241:ARG:HD3	2.49	0.47
13:8h:205:ASP:O	13:8h:209:ILE:HG13	2.15	0.47
12:9a:161:ASP:O	12:9a:251:ARG:NH2	2.48	0.47
12:9c:201:VAL:HG23	12:9c:301:CYS:HB2	1.96	0.47
12:9c:327:ASP:OD2	12:9c:328:GLU:N	2.48	0.47
13:9d:406:HIS:CG	12:9e:261:PRO:HD3	2.50	0.47
13:9d:407:TRP:HZ2	12:9e:258:ILE:HD12	1.80	0.47
13:9h:9:ILE:HD13	13:9h:150:GLY:HA2	1.96	0.47
13:9h:268:MET:HB3	13:9h:378:ILE:HG23	1.95	0.47
12:Aa:60:VAL:HB	12:Aa:86:ARG:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ac:176:SER:OG	13:Ad:349:THR:HB	2.14	0.47
12:Ac:237:THR:OG1	12:Ac:241:ARG:NH1	2.47	0.47
13:Ad:9:ILE:HD13	13:Ad:150:GLY:HA2	1.96	0.47
12:Ag:173:PRO:HA	12:Ag:380:ARG:HD2	1.97	0.47
12:Bc:112:LEU:HB2	12:Bc:147:MET:CE	2.44	0.47
12:Be:213:ARG:O	12:Be:216:LYS:HE3	2.14	0.47
13:Bf:240:ALA:O	13:Bf:356:ASN:ND2	2.47	0.47
12:Ca:210:ILE:HG22	12:Ca:297:LYS:O	2.15	0.47
13:Cd:205:ASP:O	13:Cd:209:ILE:HG13	2.15	0.47
13:Cf:179:THR:O	12:Cg:350:LYS:HD2	2.14	0.47
13:Ch:9:ILE:HD13	13:Ch:150:GLY:HA2	1.96	0.47
13:Ch:75:VAL:HG13	13:Ch:92:LEU:HB3	1.95	0.47
12:Da:406:MET:HE3	12:Da:406:MET:HB3	1.88	0.47
13:Db:205:ASP:O	13:Db:209:ILE:HG13	2.15	0.47
12:Dc:311:LEU:HD23	12:Dc:342:VAL:HG21	1.96	0.47
13:Dd:9:ILE:HD13	13:Dd:150:GLY:HA2	1.96	0.47
12:De:214:THR:N	12:De:297:LYS:HZ2	2.12	0.47
13:Df:9:ILE:HD13	13:Df:150:GLY:HA2	1.96	0.47
1:0H:86:PRO:HA	1:0H:89:VAL:HG22	1.96	0.47
1:0W:85:LEU:HD13	1:0W:121:VAL:HA	1.96	0.47
1:0I:370:HIS:O	1:0I:374:VAL:HG23	2.14	0.47
1:0A:11:GLU:OE2	47:6B:137:HIS:HD2	1.97	0.47
1:0A:344:LEU:HA	1:0A:347:GLU:CD	2.39	0.47
1:0C:218:VAL:HG12	1:0C:255:LYS:HB3	1.97	0.47
1:0C:227:ARG:HG3	1:0C:267:VAL:HG22	1.95	0.47
1:0D:156:ASN:HB3	1:0D:159:LEU:HD13	1.95	0.47
1:0D:182:SER:O	1:0D:185:ARG:HG2	2.15	0.47
1:0E:134:LEU:HA	1:0E:142:LYS:HA	1.96	0.47
1:0E:359:THR:HA	1:0E:362:GLN:OE1	2.15	0.47
1:0E:379:CYS:O	1:0E:383:LEU:HG	2.15	0.47
1:0F:169:VAL:N	1:0F:170:PRO:HD2	2.30	0.47
1:0G:55:PRO:HB2	1:0G:96:ASN:ND2	2.30	0.47
1:0G:105:PHE:O	1:0G:108:ARG:HG2	2.15	0.47
1:0L:51:LEU:O	1:0M:48:PRO:HB3	2.15	0.47
1:0L:167:GLY:C	1:0L:169:VAL:H	2.21	0.47
1:0L:182:SER:HA	1:0L:185:ARG:HE	1.79	0.47
1:0M:175:CYS:HB2	1:0M:187:ALA:HB2	1.97	0.47
1:0N:359:THR:HA	1:0N:362:GLN:OE1	2.14	0.47
1:0O:85:LEU:HD23	1:0O:88:LEU:HD12	1.97	0.47
1:0P:143:GLU:HB2	1:0P:183:LEU:CD2	2.44	0.47
1:0P:358:TRP:CG	1:0P:362:GLN:HE22	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0P:379:CYS:O	1:0P:383:LEU:HG	2.15	0.47
1:0Q:37:LEU:HB3	1:0Q:42:ALA:HB3	1.97	0.47
1:0Q:244:ALA:HB1	1:0Q:278:VAL:HA	1.94	0.47
1:0R:108:ARG:NH1	1:0R:147:TRP:HE3	2.11	0.47
1:0R:196:LYS:HA	1:0R:239:HIS:NE2	2.29	0.47
1:0R:285:LEU:O	1:0R:289:VAL:HG23	2.14	0.47
1:0U:143:GLU:HG3	1:0U:186:ILE:HG13	1.96	0.47
1:0U:332:ILE:CG1	1:0U:370:HIS:CD2	2.92	0.47
1:0V:17:ARG:NH1	1:0V:52:ASP:OD1	2.47	0.47
1:0X:225:LEU:O	1:0X:229:VAL:HG22	2.14	0.47
1:0X:304:ASP:O	1:0X:305:SER:OG	2.32	0.47
1:0X:306:ALA:HB3	1:0X:309:ASN:ND2	2.30	0.47
1:0Y:336:ALA:O	1:0Y:340:LEU:HG	2.14	0.47
1:0Z:85:LEU:HA	1:0Z:88:LEU:HD12	1.96	0.47
1:0Z:194:ILE:HG23	1:0Z:201:LEU:HD13	1.97	0.47
1:0Z:224:LYS:O	1:0Z:228:GLN:HG2	2.14	0.47
1:1B:73:ASP:OD2	1:1B:74:ASP:N	2.47	0.47
1:1B:359:THR:O	1:1B:363:ILE:HG13	2.14	0.47
1:1B:365:ARG:HG3	1:1B:406:SER:HB2	1.96	0.47
1:1C:45:LEU:C	1:1C:48:PRO:HD2	2.40	0.47
2:1D:136:ASP:OD1	2:1D:139:ARG:NH1	2.48	0.47
2:1E:209:VAL:O	2:1E:213:LEU:HD23	2.14	0.47
2:1E:398:LEU:HD21	2:1E:433:GLY:HA3	1.97	0.47
2:1F:78:GLN:NE2	2:1F:119:VAL:HG23	2.29	0.47
3:1H:110:LEU:HA	3:1H:113:VAL:HG12	1.95	0.47
3:1H:661:GLY:N	3:1H:662:PRO:HD2	2.29	0.47
3:1I:941:LEU:HB2	3:1I:942:PRO:HD3	1.95	0.47
3:1I:1043:GLU:HG2	3:1I:1047:PHE:CZ	2.50	0.47
5:1L:35:ALA:N	12:Dc:421:GLU:OE2	2.48	0.47
5:1L:564:ARG:HG3	5:1L:567:ARG:NH2	2.25	0.47
5:1M:250:VAL:HA	5:1M:303:LEU:HA	1.96	0.47
5:1M:560:MET:SD	13:1f:431:ASP:HB3	2.54	0.47
6:1N:935:GLN:N	6:1N:936:PRO:HD3	2.29	0.47
6:1N:984:ARG:NE	8:1P:719:TYR:OH	2.47	0.47
6:1N:1768:PRO:O	6:1N:1772:VAL:HG23	2.15	0.47
7:1O:2016:LEU:HG	7:1O:2039:THR:OG1	2.15	0.47
7:1O:2182:GLU:HB2	7:1O:2198:CYS:SG	2.54	0.47
10:1S:393:ALA:O	13:Af:123:ARG:CZ	2.63	0.47
12:1a:208:TYR:HE2	13:1b:329:ASN:HD22	1.61	0.47
13:1b:268:MET:HB3	13:1b:378:ILE:HG23	1.95	0.47
12:1e:20:PHE:HA	12:1e:230:SER:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1f:227:LEU:O	13:1f:231:ILE:HG13	2.15	0.47
13:1f:268:MET:HB3	13:1f:378:ILE:HG23	1.95	0.47
12:1g:159:TYR:HB3	12:1g:162:ARG:HG3	1.95	0.47
12:1g:309:ARG:NH1	12:1g:343:GLU:OE1	2.47	0.47
13:1h:9:ILE:HD13	13:1h:150:GLY:HA2	1.96	0.47
16:2I:65:UNK:C	12:Bc:92:PHE:HE2	2.28	0.47
24:2U:188:ASN:O	24:2U:192:GLU:HG2	2.15	0.47
24:2V:132:ARG:HD3	24:2V:158:VAL:CG1	2.45	0.47
12:2c:20:PHE:HA	12:2c:230:SER:HB2	1.95	0.47
12:2c:317:PHE:HB3	12:2c:321:MET:CE	2.44	0.47
13:2d:273:ALA:N	13:2d:375:VAL:O	2.48	0.47
13:2f:21:TRP:CZ3	13:2f:52:PHE:HB3	2.50	0.47
13:2f:210:TYR:CE1	12:2g:324:LYS:HB2	2.49	0.47
12:2g:21:TRP:CZ3	12:2g:61:PRO:HB3	2.50	0.47
12:2g:384:GLN:NE2	13:2h:349:THR:HG22	2.30	0.47
28:3C:521:ASP:N	28:3C:522:PRO:HD2	2.30	0.47
30:3F:358:LYS:O	30:3F:362:GLU:HG2	2.15	0.47
30:3F:514:LYS:NZ	12:7a:407:GLU:OE2	2.36	0.47
30:3F:565:GLN:O	30:3F:569:ILE:HG12	2.14	0.47
31:3H:181:ALA:O	31:3H:185:VAL:HG23	2.15	0.47
31:3I:239:GLU:OE2	32:3K:245:GLY:HA2	2.14	0.47
32:3J:100:ALA:HB1	12:Ac:425:TYR:CE2	2.49	0.47
32:3J:243:PHE:CD1	32:3J:244:PRO:HD2	2.50	0.47
32:3K:115:GLN:HB2	32:3K:119:TYR:OH	2.15	0.47
34:3M:262:THR:HG22	34:3M:470:SER:HB2	1.95	0.47
34:3N:203:ALA:HB1	34:3Q:289:ALA:HB2	1.96	0.47
34:3N:479:ALA:O	34:3N:483:GLU:HG2	2.14	0.47
34:3O:437:GLY:O	34:3O:441:LEU:HG	2.14	0.47
34:3O:485:TYR:HA	34:3O:488:ARG:CZ	2.44	0.47
34:3P:109:LEU:HA	34:3P:112:LYS:HE2	1.95	0.47
34:3P:438:ILE:HB	34:3P:439:PRO:HD3	1.97	0.47
34:3R:102:GLN:HE22	34:4B:240:GLU:CD	2.23	0.47
34:3T:200:ALA:O	34:3T:204:MET:HG3	2.15	0.47
34:3U:37:ASN:O	34:3U:41:THR:HG23	2.14	0.47
34:3V:401:VAL:HB	34:3V:402:PRO:HD3	1.97	0.47
34:3X:93:VAL:HG21	34:3X:401:VAL:CG2	2.44	0.47
34:3X:279:ASN:O	34:3X:283:THR:HG23	2.13	0.47
34:3Y:258:TYR:HB2	34:3Y:474:TRP:HD1	1.78	0.47
34:3Z:93:VAL:HG21	34:3Z:401:VAL:CG2	2.44	0.47
34:3Z:279:ASN:O	34:3Z:283:THR:HG23	2.13	0.47
34:3Z:338:LEU:HD11	34:3Z:390:LEU:CD2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3a:48:ASN:O	12:3a:62:ARG:NH2	2.45	0.47
12:3a:210:ILE:O	12:3a:214:THR:HG22	2.15	0.47
12:3c:31:ASP:HB2	12:3c:32:PRO:HD2	1.97	0.47
12:3c:246:LEU:HD13	54:3c:501:GTP:H8	1.80	0.47
12:3c:311:LEU:HD23	12:3c:342:VAL:HG21	1.96	0.47
13:3f:200:VAL:HG23	13:3f:256:GLN:HG2	1.96	0.47
12:3g:140:GLY:HA2	12:3g:184:ASN:HB2	1.95	0.47
12:3g:236:ILE:HG12	12:3g:368:ILE:HD11	1.97	0.47
13:3h:9:ILE:HD13	13:3h:150:GLY:HA2	1.96	0.47
13:3h:200:VAL:HG23	13:3h:256:GLN:HG2	1.96	0.47
34:4A:123:GLN:OE1	37:4F:1607:PRO:HD2	2.15	0.47
34:4A:401:VAL:HB	34:4A:402:PRO:HD3	1.97	0.47
34:4B:333:ARG:NH1	34:4B:334:LEU:HD23	2.29	0.47
34:4B:352:LEU:HD11	34:4B:382:LEU:CD1	2.41	0.47
35:4C:558:LEU:HD21	35:4C:700:PHE:HB2	1.95	0.47
35:4C:1060:SER:OG	35:4C:1061:GLY:N	2.44	0.47
36:4D:98:LEU:HD13	36:4D:141:TYR:CD2	2.50	0.47
36:4D:108:LYS:HA	36:4D:115:PHE:HB3	1.97	0.47
37:4E:574:LEU:C	43:5L:30:ARG:NE	2.71	0.47
37:4E:576:ALA:N	43:5L:30:ARG:HB3	2.28	0.47
37:4E:577:LEU:HB2	43:5L:30:ARG:NE	2.30	0.47
37:4E:583:GLU:HG3	43:5L:35:LYS:C	2.39	0.47
37:4E:586:PHE:CE2	43:5L:15:LEU:CG	2.97	0.47
37:4E:589:PRO:HB2	43:5L:19:ARG:N	2.29	0.47
37:4E:733:LEU:HD23	37:4E:1801:GLN:NE2	2.30	0.47
37:4E:818:ASN:ND2	37:4E:1522:PRO:HG2	2.30	0.47
37:4E:1157:CYS:HB2	37:4E:1161:SER:HG	1.77	0.47
37:4E:1378:LEU:HD12	37:4E:1385:ALA:HB3	1.95	0.47
37:4E:1474:PHE:CE2	37:4E:1514:PRO:HB2	2.48	0.47
37:4F:510:HIS:CE1	37:4F:543:ASN:CB	2.98	0.47
37:4F:977:PRO:HG2	37:4F:1067:PRO:HB2	1.96	0.47
37:4F:1074:GLN:CA	38:4N:41:LYS:HG2	2.44	0.47
37:4F:1082:LEU:CD1	38:4N:39:HIS:CA	2.92	0.47
37:4F:1135:PHE:HE1	37:4F:1150:GLY:HA2	1.78	0.47
37:4F:1532:LEU:HD12	37:4F:1533:PRO:HD2	1.97	0.47
37:4G:664:TYR:CZ	38:4I:43:ASN:OD1	2.67	0.47
37:4G:970:SER:H	37:4G:1074:GLN:CB	2.28	0.47
37:4G:1072:ALA:HB2	37:4G:1086:THR:HA	1.96	0.47
37:4G:1321:THR:CB	38:4L:26:GLU:HA	2.38	0.47
37:4G:1394:PRO:HA	37:4G:1449:ASP:OD2	2.14	0.47
37:4G:1396:LEU:HA	37:4G:1399:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1483:ALA:HB1	37:4G:1510:VAL:HA	1.97	0.47
37:4H:856:MET:HB2	37:4H:861:ALA:HB2	1.97	0.47
37:4H:972:PHE:HE2	37:4H:974:VAL:CB	2.28	0.47
37:4H:1084:ARG:CB	38:4M:38:VAL:CG2	2.92	0.47
37:4H:1084:ARG:HB2	38:4M:41:LYS:HE3	1.97	0.47
37:4H:1136:ARG:CA	37:4H:1145:VAL:O	2.62	0.47
37:4H:1316:GLN:O	37:4H:1318:TYR:N	2.48	0.47
38:4K:37:GLY:O	38:4K:40:LYS:HB3	2.15	0.47
38:4K:80:LEU:C	38:4K:82:TYR:H	2.22	0.47
38:4L:37:GLY:O	38:4L:40:LYS:HB3	2.15	0.47
38:4L:73:PRO:HB2	38:4L:75:ASN:H	1.80	0.47
38:4M:80:LEU:C	38:4M:82:TYR:H	2.22	0.47
39:4Q:167:HIS:CE1	39:4Q:206:MET:HG3	2.50	0.47
39:4R:167:HIS:CE1	39:4R:206:MET:HG3	2.50	0.47
40:4U:297:ASP:O	40:4U:301:LEU:HG	2.14	0.47
40:4U:614:LEU:HD12	40:4U:614:LEU:HA	1.69	0.47
12:4a:16:ILE:HD11	12:4a:229:ILE:HG21	1.97	0.47
13:4b:15:GLN:NE2	54:4b:501:GTP:O6	2.48	0.47
13:4b:268:MET:HB3	13:4b:378:ILE:HG23	1.95	0.47
12:4c:21:TRP:CZ3	12:4c:61:PRO:HB3	2.50	0.47
12:4c:31:ASP:HB2	12:4c:32:PRO:HD2	1.95	0.47
12:4c:330:MET:HG3	12:4c:351:SER:OG	2.14	0.47
12:4c:430:ALA:HB1	12:4c:431:GLU:OE1	2.15	0.47
13:4d:137:VAL:O	13:4d:168:GLY:HA2	2.14	0.47
13:4d:268:MET:HB3	13:4d:378:ILE:HG23	1.95	0.47
13:4f:15:GLN:NE2	54:4f:501:GTP:O6	2.48	0.47
13:4f:240:ALA:O	13:4f:356:ASN:ND2	2.47	0.47
12:4g:20:PHE:HA	12:4g:230:SER:HB2	1.97	0.47
12:4g:21:TRP:CZ3	12:4g:61:PRO:HB3	2.50	0.47
12:4g:110:ALA:HA	12:4g:113:ILE:HG22	1.96	0.47
12:4g:176:SER:OG	12:4g:178:THR:O	2.32	0.47
13:4h:212:ILE:O	13:4h:216:SER:OG	2.25	0.47
13:4h:240:ALA:O	13:4h:356:ASN:ND2	2.47	0.47
41:5A:117:ALA:H	43:5L:169:LEU:HD11	1.77	0.47
41:5A:162:PHE:H	41:5A:164:GLY:C	2.22	0.47
42:5H:85:CYS:CA	43:5L:47:LYS:HD2	2.45	0.47
42:5H:141:GLN:CA	43:5L:47:LYS:CD	2.92	0.47
43:5J:27:LEU:CD2	43:5J:32:LEU:HD13	2.43	0.47
43:5J:40:ASN:CG	43:5J:41:ASP:N	2.73	0.47
43:5K:9:ASP:O	43:5K:10:LEU:HB2	2.13	0.47
44:5M:122:GLU:O	44:5M:125:VAL:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:5N:122:GLU:O	44:5N:125:VAL:N	2.48	0.47
44:5O:122:GLU:O	44:5O:125:VAL:N	2.48	0.47
44:5S:121:SER:HB2	44:5S:124:GLU:HG3	1.97	0.47
13:5b:137:VAL:O	13:5b:168:GLY:HA2	2.14	0.47
13:5b:227:LEU:O	13:5b:231:ILE:HG13	2.15	0.47
12:5c:48:ASN:O	12:5c:62:ARG:NH2	2.42	0.47
12:5c:87:PRO:HA	12:5c:90:PHE:HD1	1.78	0.47
12:5c:202:LEU:HD22	12:5c:300:MET:HE2	1.96	0.47
13:5d:227:LEU:O	13:5d:231:ILE:HG13	2.15	0.47
12:5e:287:PRO:HD3	12:5e:325:GLU:OE2	2.13	0.47
12:5g:317:PHE:HB3	12:5g:321:MET:CE	2.45	0.47
12:5g:377:MET:O	12:5g:381:VAL:HG23	2.15	0.47
47:6A:909:ARG:HG3	47:6A:927:ILE:HD12	1.97	0.47
47:6A:1156:LEU:HD23	47:6A:1313:LYS:NZ	2.28	0.47
47:6A:1645:ALA:O	47:6A:1648:ILE:HG22	2.14	0.47
47:6B:116:ASN:O	47:6B:119:ARG:HB2	2.14	0.47
47:6B:397:GLN:O	47:6B:401:VAL:HG23	2.15	0.47
47:6B:401:VAL:HG11	48:6E:337:ARG:HG2	1.97	0.47
47:6B:409:ARG:HD3	3:6D:1006:ASP:H	1.79	0.47
47:6B:909:ARG:HG3	47:6B:927:ILE:HD12	1.97	0.47
47:6B:1593:PRO:HD2	47:6B:1596:TRP:CH2	2.49	0.47
47:6B:1645:ALA:O	47:6B:1648:ILE:HG22	2.14	0.47
3:6D:129:VAL:O	3:6D:133:THR:HG23	2.15	0.47
3:6D:279:LEU:HD11	3:6D:534:LEU:HD22	1.96	0.47
3:6D:671:SER:O	3:6D:673:PRO:HD3	2.15	0.47
3:6D:760:THR:HG22	3:6D:807:CYS:HA	1.95	0.47
3:6D:796:LEU:HD22	3:6D:934:LEU:HD21	1.95	0.47
3:6D:829:GLU:HG2	3:6D:866:TRP:HD1	1.79	0.47
48:6E:76:THR:HA	48:6E:98:ARG:O	2.14	0.47
48:6E:102:LEU:HD12	48:6E:122:ASN:HD21	1.79	0.47
48:6F:177:ARG:HH12	49:6H:465:ALA:HB3	1.79	0.47
48:6F:201:VAL:HG12	48:6F:204:LEU:HB3	1.97	0.47
48:6F:384:LEU:HD23	48:6F:411:LEU:HD22	1.96	0.47
48:6F:607:HIS:CE1	48:6F:624:THR:HB	2.48	0.47
48:6F:613:LYS:HA	48:6F:618:TRP:H	1.79	0.47
48:6F:1019:ARG:O	48:6F:1026:THR:HG21	2.14	0.47
48:6F:1020:ILE:HG12	48:6F:1026:THR:HG22	1.96	0.47
49:6G:33:SER:OG	49:6I:71:ARG:HD2	2.15	0.47
49:6G:61:ASN:HB3	49:6G:104:LYS:HB3	1.96	0.47
49:6G:203:ASN:CB	49:6G:258:ASN:HA	2.29	0.47
49:6G:401:VAL:HG11	49:6G:432:LEU:CD1	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6H:2:SER:N	49:6H:5:GLU:OE1	2.47	0.47
49:6H:117:ILE:HG23	49:6H:136:MET:CE	2.42	0.47
49:6H:344:ASP:HB3	49:6H:347:PRO:CG	2.45	0.47
49:6J:204:ALA:H	49:6J:305:LYS:HZ2	1.62	0.47
49:6J:368:ASN:OD1	49:6J:370:VAL:HG12	2.15	0.47
49:6J:401:VAL:HG23	49:6J:411:VAL:HG11	1.97	0.47
50:6K:119:GLU:OE2	50:6K:164:ASP:HB2	2.14	0.47
50:6K:594:GLU:HG2	50:6K:596:GLU:HG2	1.95	0.47
50:6L:12:LEU:H	50:6L:149:THR:HG22	1.79	0.47
50:6L:78:LYS:HD2	50:6L:101:ASP:HB3	1.95	0.47
50:6L:401:ASP:OD2	50:6L:402:VAL:N	2.48	0.47
50:6L:458:ASP:CG	50:6L:459:ASN:H	2.22	0.47
51:6M:1240:LYS:HG3	51:6M:1322:LEU:HD22	1.96	0.47
51:6M:1399:VAL:HA	51:6M:1402:ARG:HG2	1.96	0.47
51:6N:1556:LEU:HD21	51:6N:1987:PHE:HD1	1.79	0.47
51:6N:1664:MET:HE3	51:6N:1664:MET:HB3	1.73	0.47
12:6a:58:ARG:HE	12:6a:86:ARG:NH1	2.13	0.47
13:6b:90:GLU:OE1	13:6b:121:ARG:NE	2.44	0.47
13:6b:205:ASP:O	13:6b:209:ILE:HG13	2.15	0.47
12:6c:48:ASN:O	12:6c:62:ARG:NH2	2.44	0.47
13:6d:205:ASP:O	13:6d:209:ILE:HG13	2.15	0.47
13:6d:407:TRP:HE1	12:6e:258:ILE:HB	1.79	0.47
13:6f:90:GLU:OE1	13:6f:121:ARG:NE	2.44	0.47
13:6f:240:ALA:O	13:6f:356:ASN:ND2	2.47	0.47
12:6g:20:PHE:HA	12:6g:230:SER:HB2	1.96	0.47
12:6g:159:TYR:HB3	12:6g:162:ARG:HG3	1.95	0.47
13:7b:15:GLN:NE2	54:7b:501:GTP:O6	2.48	0.47
13:7b:227:LEU:O	13:7b:231:ILE:HG13	2.15	0.47
13:7b:240:ALA:O	13:7b:356:ASN:ND2	2.47	0.47
12:7c:178:THR:OG1	12:7c:181:GLU:HG3	2.15	0.47
13:7d:227:LEU:O	13:7d:231:ILE:HG13	2.15	0.47
13:7f:227:LEU:O	13:7f:231:ILE:HG13	2.15	0.47
13:7h:227:LEU:O	13:7h:231:ILE:HG13	2.15	0.47
13:8b:15:GLN:NE2	54:8b:501:GTP:O6	2.48	0.47
13:8b:205:ASP:O	13:8b:209:ILE:HG13	2.15	0.47
13:8b:227:LEU:O	13:8b:231:ILE:HG13	2.15	0.47
12:8c:159:TYR:HB3	12:8c:162:ARG:HG3	1.96	0.47
13:8d:15:GLN:NE2	54:8d:501:GTP:O6	2.48	0.47
13:8d:205:ASP:O	13:8d:209:ILE:HG13	2.15	0.47
13:8d:227:LEU:O	13:8d:231:ILE:HG13	2.15	0.47
13:8d:240:ALA:O	13:8d:356:ASN:ND2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:8f:15:GLN:NE2	54:8f:501:GTP:O6	2.48	0.47
13:8f:55:GLU:O	13:9f:285:GLN:NE2	2.48	0.47
13:8f:205:ASP:O	13:8f:209:ILE:HG13	2.15	0.47
13:8f:227:LEU:O	13:8f:231:ILE:HG13	2.15	0.47
13:8f:240:ALA:O	13:8f:356:ASN:ND2	2.47	0.47
12:8g:311:LEU:HD23	12:8g:342:VAL:HG21	1.96	0.47
12:9a:150:LEU:O	12:9a:153:SER:OG	2.27	0.47
13:9b:137:VAL:O	13:9b:168:GLY:HA2	2.14	0.47
12:9c:104:GLY:O	12:9c:147:MET:HG3	2.14	0.47
12:9c:176:SER:OG	13:9d:349:THR:HB	2.15	0.47
13:9d:205:ASP:O	13:9d:209:ILE:HG13	2.15	0.47
12:9e:21:TRP:CZ2	12:9e:63:ALA:HB2	2.50	0.47
12:9e:31:ASP:HB2	12:9e:32:PRO:HD2	1.96	0.47
12:9e:99:ASN:HD22	13:9f:258:ASN:HD21	1.63	0.47
12:9e:108:GLU:HA	12:9e:111:GLU:CG	2.45	0.47
13:9f:9:ILE:HD13	13:9f:150:GLY:HA2	1.96	0.47
13:9f:268:MET:HB3	13:9f:378:ILE:HG23	1.95	0.47
12:9g:31:ASP:HB2	12:9g:32:PRO:HD2	1.97	0.47
12:9g:106:TYR:CE2	12:9g:403:MET:HE2	2.50	0.47
12:9g:229:ILE:HA	12:9g:300:MET:HE1	1.96	0.47
13:9h:200:VAL:HG23	13:9h:256:GLN:HG2	1.96	0.47
12:Aa:184:ASN:OD1	12:Aa:398:TYR:OH	2.27	0.47
13:Ab:205:ASP:O	13:Ab:209:ILE:HG13	2.15	0.47
13:Ab:227:LEU:O	13:Ab:231:ILE:HG13	2.15	0.47
12:Ac:116:VAL:O	12:Ac:120:VAL:HG23	2.15	0.47
12:Ae:31:ASP:HB2	12:Ae:32:PRO:HD2	1.95	0.47
12:Ae:175:VAL:HG21	13:Af:332:VAL:CG1	2.44	0.47
13:Af:205:ASP:O	13:Af:209:ILE:HG13	2.15	0.47
12:Ag:31:ASP:HB2	12:Ag:32:PRO:HD2	1.97	0.47
12:Ba:209:ASP:CG	12:Ba:213:ARG:HH21	2.22	0.47
13:Bb:205:ASP:O	13:Bb:209:ILE:HG13	2.15	0.47
13:Bd:273:ALA:N	13:Bd:375:VAL:O	2.48	0.47
12:Be:86:ARG:HH22	12:Ce:278:SER:C	2.13	0.47
12:Ca:330:MET:SD	12:Ca:349:VAL:HG11	2.54	0.47
12:Cc:330:MET:HB3	12:Cc:349:VAL:HG11	1.95	0.47
13:Cd:227:LEU:O	13:Cd:231:ILE:HG13	2.15	0.47
13:Cd:407:TRP:CE2	12:Ce:255:VAL:HA	2.50	0.47
12:Ce:66:MET:SD	12:Ce:116:VAL:HG21	2.54	0.47
13:Cf:227:LEU:O	13:Cf:231:ILE:HG13	2.15	0.47
12:Cg:159:TYR:HB3	12:Cg:162:ARG:HG3	1.96	0.47
12:Cg:235:GLY:HA3	12:Cg:366:THR:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Cg:341:PHE:HB3	12:Cg:348:ASN:ND2	2.29	0.47
13:Ch:227:LEU:O	13:Ch:231:ILE:HG13	2.15	0.47
12:Dc:159:TYR:HB3	12:Dc:162:ARG:HG3	1.95	0.47
13:Dd:205:ASP:O	13:Dd:209:ILE:HG13	2.15	0.47
12:De:98:GLY:O	13:Df:257:THR:OG1	2.15	0.47
12:De:100:ASN:HB2	13:Df:257:THR:HG21	1.97	0.47
12:De:172:SER:HB2	12:De:205:GLU:CG	2.44	0.47
12:De:178:THR:H	12:De:181:GLU:CD	2.21	0.47
12:Dg:173:PRO:HA	12:Dg:380:ARG:HD2	1.96	0.47
12:Dg:229:ILE:HA	12:Dg:300:MET:HE1	1.97	0.47
1:0J:37:LEU:HG	1:0J:42:ALA:HB3	1.97	0.47
1:0J:338:PRO:HB2	1:0J:339:PRO:HD3	1.97	0.47
1:0K:49:LEU:HD12	1:0K:57:ILE:CG2	2.45	0.47
1:0K:279:ALA:HB1	1:0K:320:ILE:HG22	1.96	0.47
1:0K:320:ILE:HB	1:0K:327:LEU:HD22	1.97	0.47
1:0A:107:LEU:HD22	1:0A:121:VAL:HG13	1.97	0.47
1:0A:137:PHE:O	4:1J:120:ARG:NH1	2.48	0.47
1:0A:379:CYS:O	1:0A:383:LEU:HG	2.15	0.47
1:0C:65:LEU:CD2	1:0C:84:ILE:HG21	2.45	0.47
1:0D:349:GLU:HB2	1:0D:352:LEU:HB3	1.96	0.47
1:0E:37:LEU:HD22	1:0F:10:PHE:CE2	2.50	0.47
1:0F:394:ASP:N	1:0F:394:ASP:OD1	2.45	0.47
1:0M:231:CYS:O	1:0M:235:GLN:HG2	2.15	0.47
1:0N:147:TRP:CE3	1:0N:186:ILE:HD12	2.50	0.47
1:0N:253:PHE:HA	1:0N:256:ILE:HB	1.97	0.47
1:0O:241:VAL:HG22	1:0O:281:HIS:HD2	1.80	0.47
1:0P:140:GLY:H	1:0P:183:LEU:HD21	1.80	0.47
1:0U:218:VAL:HG12	1:0U:255:LYS:HB3	1.96	0.47
1:0X:240:SER:HB3	1:0X:243:LEU:HG	1.96	0.47
1:1B:344:LEU:HD13	1:1B:382:THR:OG1	2.14	0.47
1:1B:384:VAL:HA	1:1B:387:GLU:OE2	2.15	0.47
1:1C:381:ALA:HA	1:1C:384:VAL:HG12	1.97	0.47
2:1F:22:ASP:O	2:1F:26:THR:HG22	2.14	0.47
3:1H:951:TYR:CD1	3:1H:976:VAL:O	2.68	0.47
6:1N:404:PRO:O	6:1N:407:VAL:HG22	2.15	0.47
6:1N:588:PRO:HG3	6:1N:641:TRP:CE3	2.49	0.47
6:1N:713:MET:HE1	6:1N:827:PRO:HG3	1.97	0.47
6:1N:1948:VAL:HG22	6:1N:2035:ALA:O	2.14	0.47
7:1O:284:LEU:HG	7:1O:296:PRO:HB2	1.97	0.47
7:1O:1154:ALA:O	7:1O:1158:VAL:HG23	2.14	0.47
9:1Q:395:TRP:CD1	9:1Q:405:TRP:CD1	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1S:425:GLY:HA2	10:1S:429:LYS:HZ3	1.80	0.47
13:1b:227:LEU:O	13:1b:231:ILE:HG13	2.15	0.47
12:1g:267:MET:HG2	12:1g:301:CYS:HB3	1.97	0.47
13:1h:227:LEU:O	13:1h:231:ILE:HG13	2.15	0.47
15:2H:63:UNK:O	12:Bg:77:ARG:NH1	2.47	0.47
24:2T:143:SER:HB3	13:Ch:117:LEU:HD22	1.97	0.47
24:2T:202:ARG:HG2	12:Cg:194:GLU:CD	2.40	0.47
12:2a:272:PRO:HD3	12:2a:364:SER:HA	1.97	0.47
13:2b:15:GLN:NE2	54:2b:501:GTP:O6	2.48	0.47
13:2b:21:TRP:CZ3	13:2b:52:PHE:HB3	2.50	0.47
13:2d:15:GLN:NE2	54:2d:501:GTP:O6	2.48	0.47
12:2g:159:TYR:HB3	12:2g:162:ARG:HG3	1.96	0.47
12:2g:172:SER:OG	12:2g:205:GLU:OE1	2.30	0.47
13:2h:15:GLN:NE2	54:2h:501:GTP:O6	2.48	0.47
32:3J:393:ALA:HB2	12:8a:156:ARG:NH1	2.30	0.47
32:3K:69:ARG:HB3	32:3K:104:THR:HB	1.97	0.47
34:3O:113:GLU:OE2	34:3T:244:ARG:HB2	2.14	0.47
34:3O:118:HIS:CE1	34:3O:122:GLN:HE21	2.32	0.47
34:3U:254:MET:HE2	34:3U:477:GLU:HB3	1.95	0.47
34:3U:502:VAL:O	34:3U:506:GLU:OE1	2.33	0.47
34:3V:279:ASN:O	34:3V:282:GLN:HG3	2.15	0.47
34:3Y:396:ALA:O	34:3Y:400:LEU:HG	2.15	0.47
12:3a:58:ARG:CZ	12:3a:86:ARG:NH2	2.77	0.47
12:3c:21:TRP:CZ3	12:3c:61:PRO:HB3	2.50	0.47
12:3c:161:ASP:OD1	12:3c:162:ARG:NH1	2.48	0.47
35:4C:920:MET:HB2	35:4C:926:THR:HG21	1.96	0.47
37:4F:537:LEU:CD2	38:4K:53:LEU:HD11	2.45	0.47
37:4F:614:THR:HG23	37:4F:1077:THR:HB	1.96	0.47
37:4F:1073:LEU:O	38:4N:41:LYS:HE2	2.12	0.47
37:4F:1077:THR:CB	37:4F:1081:HIS:O	2.63	0.47
37:4G:827:PRO:HG3	37:4G:850:PRO:HB2	1.97	0.47
37:4G:1299:ARG:HD3	37:4G:1303:VAL:CG2	2.38	0.47
37:4H:422:TRP:O	37:4H:426:VAL:HG23	2.15	0.47
37:4H:518:LEU:HG	37:4H:678:LEU:HD12	1.96	0.47
37:4H:1138:VAL:CA	37:4H:1139:THR:HG23	2.45	0.47
37:4H:1332:SER:H	38:4M:24:THR:N	2.12	0.47
38:4J:73:PRO:HB2	38:4J:75:ASN:H	1.80	0.47
38:4K:38:VAL:O	38:4K:41:LYS:CB	2.63	0.47
38:4K:50:ARG:N	38:4N:72:ARG:HH21	2.12	0.47
38:4L:36:VAL:O	38:4L:36:VAL:CG2	2.62	0.47
38:4N:37:GLY:O	38:4N:40:LYS:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:4R:12:ALA:HB3	39:4R:13:PRO:HD3	1.97	0.47
39:4S:167:HIS:CE1	39:4S:206:MET:HG3	2.50	0.47
40:4U:492:THR:HG23	40:4U:494:LEU:N	2.30	0.47
40:4U:726:PRO:HA	40:4U:818:MET:CE	2.45	0.47
12:4a:60:VAL:HB	12:4a:86:ARG:HG2	1.96	0.47
12:4a:66:MET:SD	12:4a:116:VAL:HG21	2.55	0.47
13:4b:137:VAL:O	13:4b:168:GLY:HA2	2.14	0.47
12:4c:330:MET:HB3	12:4c:349:VAL:HG11	1.97	0.47
13:4d:15:GLN:NE2	54:4d:501:GTP:O6	2.48	0.47
13:4f:268:MET:HB3	13:4f:378:ILE:HG23	1.95	0.47
42:5G:107:ARG:HG3	42:5G:108:PRO:HD2	1.96	0.47
42:5H:85:CYS:CB	43:5L:47:LYS:HE3	2.44	0.47
42:5H:91:TYR:O	43:5L:45:ASN:CG	2.58	0.47
42:5H:144:PHE:CZ	43:5L:144:TYR:CE1	3.02	0.47
13:5b:233:GLN:HG3	13:5b:368:LEU:HD13	1.96	0.47
13:5b:407:TRP:HB3	12:5c:255:VAL:HG23	1.95	0.47
12:5c:21:TRP:CZ3	12:5c:61:PRO:HB3	2.50	0.47
12:5c:170:VAL:HG11	12:5c:377:MET:SD	2.55	0.47
13:5f:227:LEU:O	13:5f:231:ILE:HG13	2.15	0.47
47:6B:384:GLU:CD	3:6D:851:SER:HB2	2.39	0.47
47:6B:1247:GLU:HG3	47:6B:1503:LYS:NZ	2.30	0.47
3:6D:809:TRP:NE1	3:6D:852:ASP:OD2	2.48	0.47
48:6E:201:VAL:HG12	48:6E:204:LEU:HB3	1.97	0.47
48:6E:384:LEU:HD23	48:6E:411:LEU:HD22	1.96	0.47
48:6F:303:LEU:HD13	48:6F:306:VAL:H	1.80	0.47
49:6G:2:SER:N	49:6G:5:GLU:OE1	2.47	0.47
49:6G:344:ASP:HB3	49:6G:347:PRO:CG	2.45	0.47
49:6H:61:ASN:HB3	49:6H:104:LYS:HB3	1.96	0.47
49:6I:401:VAL:HG23	49:6I:411:VAL:HG11	1.97	0.47
50:6K:78:LYS:HD2	50:6K:101:ASP:HB3	1.95	0.47
50:6K:151:PRO:HB2	50:6K:154:PHE:CD1	2.50	0.47
50:6L:119:GLU:OE2	50:6L:164:ASP:HB2	2.14	0.47
50:6L:594:GLU:HG2	50:6L:596:GLU:HG2	1.96	0.47
51:6M:1385:PRO:HB2	51:6M:1387:GLN:NE2	2.26	0.47
51:6M:1556:LEU:HD21	51:6M:1987:PHE:HD1	1.79	0.47
51:6N:2295:GLU:OE1	51:6N:2296:LYS:HD3	2.14	0.47
13:6d:90:GLU:OE1	13:6d:121:ARG:NE	2.44	0.47
12:6e:313:ALA:O	12:6e:349:VAL:HA	2.14	0.47
13:6f:137:VAL:O	13:6f:168:GLY:HA2	2.14	0.47
12:7a:68:LEU:HD11	12:7a:108:GLU:HB3	1.96	0.47
12:7a:404:ASP:HB2	12:7a:407:GLU:OE1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7d:240:ALA:O	13:7d:356:ASN:ND2	2.47	0.47
12:7e:249:ASP:H	12:7e:252:LYS:HD3	1.78	0.47
12:7e:313:ALA:O	12:7e:349:VAL:HA	2.15	0.47
13:7f:9:ILE:HD13	13:7f:150:GLY:HA2	1.96	0.47
12:7g:27:GLU:OE2	12:7g:318:ARG:NH2	2.36	0.47
13:7h:240:ALA:O	13:7h:356:ASN:ND2	2.47	0.47
12:8a:342:VAL:CG2	12:8a:345:ILE:HD13	2.45	0.47
12:8a:377:MET:HB2	12:8a:377:MET:HE2	1.61	0.47
13:8b:240:ALA:O	13:8b:356:ASN:ND2	2.47	0.47
12:8e:274:THR:HG22	12:8e:282:ARG:HD3	1.97	0.47
13:8h:227:LEU:O	13:8h:231:ILE:HG13	2.15	0.47
12:9a:342:VAL:CG2	12:9a:345:ILE:HD13	2.45	0.47
12:9a:377:MET:HB2	12:9a:377:MET:HE2	1.60	0.47
13:9b:205:ASP:O	13:9b:209:ILE:HG13	2.15	0.47
13:9b:240:ALA:O	13:9b:356:ASN:ND2	2.47	0.47
12:9c:311:LEU:HD23	12:9c:342:VAL:HG21	1.96	0.47
13:9d:90:GLU:OE1	13:9d:121:ARG:NE	2.44	0.47
13:9d:200:VAL:HG23	13:9d:256:GLN:HG2	1.96	0.47
13:9d:227:LEU:O	13:9d:231:ILE:HG13	2.15	0.47
12:9e:91:VAL:HG21	12:9e:115:SER:OG	2.15	0.47
13:9f:205:ASP:O	13:9f:209:ILE:HG13	2.15	0.47
12:9g:236:ILE:HG12	12:9g:368:ILE:HD11	1.97	0.47
13:9h:205:ASP:O	13:9h:209:ILE:HG13	2.15	0.47
12:Ac:31:ASP:HB2	12:Ac:32:PRO:HD2	1.97	0.47
13:Af:175:PRO:O	13:Af:394:LYS:NZ	2.46	0.47
13:Ah:137:VAL:O	13:Ah:168:GLY:HA2	2.14	0.47
12:Ba:31:ASP:HB2	12:Ba:32:PRO:HD2	1.97	0.47
12:Ba:98:GLY:C	13:Bb:254:GLU:HG2	2.40	0.47
12:Ba:275:SER:O	12:Ba:279:GLN:HG3	2.15	0.47
13:Bb:240:ALA:O	13:Bb:356:ASN:ND2	2.47	0.47
12:Bc:27:GLU:OE2	12:Bc:318:ARG:NH2	2.39	0.47
13:Bd:21:TRP:CZ3	13:Bd:52:PHE:HB3	2.50	0.47
12:Be:406:MET:HE3	12:Be:406:MET:HB3	1.87	0.47
13:Bf:233:GLN:HG3	13:Bf:368:LEU:HD13	1.96	0.47
13:Bh:21:TRP:CZ3	13:Bh:52:PHE:HB3	2.50	0.47
13:Cb:15:GLN:NE2	54:Cc:501:GTP:O6	2.48	0.47
12:Cc:83:GLN:O	12:Dc:281:TYR:HE1	1.97	0.47
13:Cd:15:GLN:NE2	54:Cd:501:GTP:O6	2.48	0.47
12:Ce:395:LEU:HG	12:Ce:405:GLU:OE2	2.14	0.47
13:Cf:9:ILE:HD13	13:Cf:150:GLY:HA2	1.96	0.47
13:Cf:15:GLN:NE2	54:Cf:501:GTP:O6	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Cf:212:ILE:O	13:Cf:216:SER:OG	2.25	0.47
12:De:335:ASN:O	12:De:338:SER:OG	2.33	0.47
13:Df:205:ASP:O	13:Df:209:ILE:HG13	2.15	0.47
12:Dg:27:GLU:OE2	12:Dg:318:ARG:NH2	2.36	0.47
13:Dh:9:ILE:HD13	13:Dh:150:GLY:HA2	1.96	0.47
13:Dh:21:TRP:CZ3	13:Dh:52:PHE:HB3	2.50	0.47
13:Dh:205:ASP:O	13:Dh:209:ILE:HG13	2.15	0.47
1:0H:358:TRP:CG	1:0H:362:GLN:HE22	2.32	0.47
1:0K:294:GLY:O	1:0K:298:LEU:HG	2.15	0.47
1:0K:368:PRO:HG3	1:0K:410:LYS:HD2	1.96	0.47
44:5P:55:MET:HB3	44:5P:75:LEU:HD13	1.96	0.47
1:0A:35:GLU:CD	47:6A:246:ARG:NH1	2.58	0.47
1:0A:67:ARG:HG3	1:0A:105:PHE:HE2	1.80	0.47
1:0A:240:SER:HB3	1:0A:243:LEU:HG	1.96	0.47
1:0E:362:GLN:O	1:0E:366:HIS:CD2	2.67	0.47
1:0N:153:ALA:O	1:0N:197:HIS:CD2	2.68	0.47
1:0O:122:ILE:HG21	1:0O:162:GLN:NE2	2.30	0.47
1:0O:240:SER:HB3	1:0O:243:LEU:HG	1.96	0.47
1:0P:108:ARG:NH1	1:0P:144:ALA:HB1	2.29	0.47
1:0Q:240:SER:HB3	1:0Q:243:LEU:HG	1.97	0.47
1:0S:332:ILE:CG1	1:0S:370:HIS:CD2	2.94	0.47
1:0X:128:ASP:HA	1:0X:131:VAL:HG22	1.97	0.47
1:0Z:193:ASP:O	1:0Z:197:HIS:HD2	1.97	0.47
1:1A:349:GLU:HB2	1:1A:352:LEU:HB3	1.96	0.47
1:1B:28:ALA:HA	1:1B:34:ILE:HG12	1.95	0.47
1:1B:37:LEU:HG	1:1B:42:ALA:HB3	1.97	0.47
1:1C:273:THR:O	1:1C:277:GLU:HG2	2.15	0.47
2:1D:124:ASN:HA	2:1D:168:ASN:HD21	1.79	0.47
2:1G:248:ASP:N	2:1G:248:ASP:OD1	2.44	0.47
3:1H:526:ASP:CG	47:6A:350:ARG:HH22	2.23	0.47
3:1H:945:ILE:CG1	47:6A:381:GLN:NE2	2.77	0.47
3:1H:1053:GLN:NE2	4:1J:402:TYR:HA	2.22	0.47
5:1L:250:VAL:HA	5:1L:303:LEU:HA	1.96	0.47
5:1M:564:ARG:CZ	13:1f:434:GLU:HA	2.45	0.47
6:1N:2258:MET:HG3	6:1N:2472:LEU:HD12	1.95	0.47
7:1O:1453:GLU:HG3	7:1O:1454:ALA:H	1.80	0.47
7:1O:2020:GLY:HA2	7:1O:2035:SER:OG	2.15	0.47
10:1R:398:VAL:HG22	13:Ab:123:ARG:NH2	2.30	0.47
10:1S:369:LYS:NZ	12:Ag:128:ASP:HA	2.30	0.47
13:1d:227:LEU:O	13:1d:231:ILE:HG13	2.15	0.47
13:1f:15:GLN:NE2	54:1f:501:GTP:O6	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1g:202:LEU:HD22	12:1g:300:MET:HE2	1.97	0.47
24:2T:135:ARG:HB2	24:2T:136:PRO:HD3	1.97	0.47
24:2V:125:SER:O	24:2V:129:SER:HB2	2.15	0.47
24:2V:149:SER:HB2	13:Df:304:LYS:NZ	2.30	0.47
12:2a:16:ILE:HD11	12:2a:229:ILE:HG21	1.97	0.47
12:2a:124:ALA:HB1	12:2a:130:LEU:HD11	1.96	0.47
12:2a:287:PRO:HD3	12:2a:325:GLU:OE1	2.15	0.47
12:2c:68:LEU:HD21	12:2c:147:MET:SD	2.54	0.47
13:2d:240:ALA:O	13:2d:356:ASN:ND2	2.47	0.47
12:2e:161:ASP:O	12:2e:251:ARG:NH2	2.48	0.47
12:2e:394:PHE:CD1	13:2f:261:PRO:HA	2.50	0.47
13:2f:15:GLN:NE2	54:2f:501:GTP:O6	2.48	0.47
13:2h:21:TRP:CZ3	13:2h:52:PHE:HB3	2.50	0.47
30:3G:534:PRO:N	13:7h:113:GLU:OE2	2.47	0.47
31:3H:134:THR:HG22	31:3H:186:LEU:HD11	1.97	0.47
32:3J:363:ILE:HD11	12:9a:416:ASN:CG	2.39	0.47
32:3K:306:GLU:OE2	32:3K:315:GLN:NE2	2.48	0.47
32:3K:341:THR:O	32:3K:345:MET:HG3	2.15	0.47
33:3L:25:CYS:SG	33:3L:47:LEU:HD21	2.55	0.47
34:3O:386:HIS:O	34:3O:390:LEU:HD12	2.14	0.47
34:3P:70:GLU:OE2	34:3P:74:LEU:HG	2.15	0.47
34:3P:251:LEU:HD23	34:3P:251:LEU:C	2.39	0.47
34:3Q:118:HIS:CE1	34:3Q:122:GLN:HE21	2.32	0.47
34:3Q:437:GLY:O	34:3Q:441:LEU:HG	2.14	0.47
34:3S:352:LEU:HG	34:3S:375:TYR:HE1	1.79	0.47
34:3X:258:TYR:CZ	34:3X:474:TRP:HA	2.50	0.47
12:3c:99:ASN:HA	12:3c:142:GLY:H	1.80	0.47
13:3d:9:ILE:HD13	13:3d:150:GLY:HA2	1.96	0.47
37:4E:526:ARG:HB3	37:4E:680:VAL:HG11	1.96	0.47
37:4E:762:ALA:HB2	37:4E:816:ALA:HB2	1.97	0.47
37:4E:1761:TYR:CE2	37:4E:1763:PRO:HG2	2.50	0.47
37:4F:528:SER:OG	37:4F:530:PRO:HD2	2.15	0.47
37:4F:1135:PHE:O	37:4F:1147:ALA:HB3	2.14	0.47
37:4F:1287:LEU:HA	39:4S:27:GLU:OE1	2.15	0.47
37:4G:519:LEU:HD23	37:4G:519:LEU:HA	1.56	0.47
37:4G:669:GLU:OE2	38:4I:36:VAL:O	2.33	0.47
37:4H:1081:HIS:ND1	37:4H:1338:PHE:CZ	2.83	0.47
37:4H:1328:ASP:OD2	37:4H:1329:GLY:N	2.47	0.47
38:4I:38:VAL:O	38:4I:41:LYS:CB	2.63	0.47
38:4K:36:VAL:O	38:4K:37:GLY:C	2.55	0.47
38:4K:49:ILE:CG2	38:4N:72:ARG:NE	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4M:38:VAL:O	38:4M:41:LYS:CB	2.63	0.47
38:4O:25:PRO:HA	38:4O:28:VAL:HG23	1.97	0.47
40:4T:492:THR:HG23	40:4T:494:LEU:N	2.30	0.47
12:4a:113:ILE:HA	12:4a:116:VAL:CG1	2.37	0.47
13:4b:72:PRO:HB3	12:4c:1:MET:HE3	1.96	0.47
12:4c:229:ILE:HA	12:4c:300:MET:HE1	1.97	0.47
41:5A:137:GLN:O	41:5A:143:MET:O	2.33	0.47
42:5E:135:ARG:HD3	43:5I:57:HIS:CE1	2.50	0.47
42:5H:129:MET:HB3	42:5H:134:LEU:CG	2.44	0.47
42:5H:143:VAL:CG2	43:5L:145:SER:C	2.88	0.47
43:5L:34:ALA:HB3	43:5L:35:LYS:HD3	1.95	0.47
44:5U:128:MET:HB2	44:5U:128:MET:HE3	1.56	0.47
12:5a:117:LEU:HA	12:5a:120:VAL:HG12	1.96	0.47
12:5a:207:LEU:HB3	12:5a:225:LEU:HD22	1.96	0.47
13:5h:227:LEU:O	13:5h:231:ILE:HG13	2.15	0.47
47:6A:397:GLN:O	47:6A:401:VAL:HG23	2.15	0.47
47:6A:617:TYR:CZ	47:6A:767:VAL:HG22	2.50	0.47
47:6A:1244:LEU:HD11	51:6M:2361:ALA:HB2	1.96	0.47
47:6A:1247:GLU:HG3	47:6A:1503:LYS:NZ	2.30	0.47
47:6B:1929:LEU:HB3	51:6N:1924:ARG:HG3	1.96	0.47
48:6E:1027:PHE:CE2	50:6K:398:LEU:HD13	2.49	0.47
48:6F:76:THR:HA	48:6F:98:ARG:O	2.14	0.47
48:6F:166:THR:O	48:6F:188:LEU:HD12	2.14	0.47
49:6G:286:MET:HG2	49:6G:333:VAL:HG21	1.95	0.47
49:6H:278:TYR:HB2	49:6H:281:LYS:HB2	1.95	0.47
49:6I:368:ASN:OD1	49:6I:370:VAL:HG12	2.15	0.47
50:6K:401:ASP:OD2	50:6K:402:VAL:N	2.48	0.47
51:6M:2146:ASN:O	51:6M:2273:THR:OG1	2.22	0.47
12:6a:269:GLY:HA2	12:6a:300:MET:HE1	1.96	0.47
13:6d:21:TRP:CZ3	13:6d:52:PHE:HB3	2.50	0.47
12:6e:31:ASP:HB2	12:6e:32:PRO:HD2	1.96	0.47
13:6f:205:ASP:O	13:6f:209:ILE:HG13	2.15	0.47
12:6g:397:TRP:CD1	13:6h:257:THR:HA	2.49	0.47
13:6h:21:TRP:CZ3	13:6h:52:PHE:HB3	2.50	0.47
13:6h:90:GLU:OE1	13:6h:121:ARG:NE	2.44	0.47
13:6h:137:VAL:O	13:6h:168:GLY:HA2	2.14	0.47
12:7a:117:LEU:HA	12:7a:120:VAL:HG12	1.96	0.47
12:7e:397:TRP:O	12:7e:401:GLU:OE1	2.33	0.47
12:8a:16:ILE:CD1	12:8a:229:ILE:HB	2.44	0.47
12:8a:161:ASP:O	12:8a:251:ARG:NH2	2.48	0.47
12:8g:173:PRO:HA	12:8g:380:ARG:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8g:267:MET:HG2	12:8g:301:CYS:HB3	1.96	0.47
12:9a:163:MET:HE1	12:9a:254:ALA:CB	2.45	0.47
12:9c:236:ILE:HG12	12:9c:368:ILE:HD11	1.97	0.47
13:9d:233:GLN:HG3	13:9d:368:LEU:HD13	1.96	0.47
13:9f:240:ALA:O	13:9f:356:ASN:ND2	2.47	0.47
12:9g:3:GLU:N	12:9g:3:GLU:OE1	2.47	0.47
13:9h:227:LEU:O	13:9h:231:ILE:HG13	2.15	0.47
13:9h:233:GLN:HG3	13:9h:368:LEU:HD13	1.96	0.47
12:Ac:311:LEU:HD23	12:Ac:342:VAL:HG21	1.96	0.47
13:Ad:137:VAL:O	13:Ad:168:GLY:HA2	2.14	0.47
13:Ad:248:LEU:HA	13:Ad:248:LEU:HD23	1.79	0.47
13:Af:227:LEU:O	13:Af:231:ILE:HG13	2.15	0.47
12:Ag:229:ILE:HA	12:Ag:300:MET:HE1	1.97	0.47
13:Ah:21:TRP:CZ3	13:Ah:52:PHE:HB3	2.50	0.47
13:Ah:233:GLN:HG3	13:Ah:368:LEU:HD13	1.96	0.47
13:Bd:233:GLN:HG3	13:Bd:368:LEU:HD13	1.96	0.47
12:Be:279:GLN:C	12:Be:281:TYR:H	2.23	0.47
13:Bf:21:TRP:CZ3	13:Bf:52:PHE:HB3	2.50	0.47
12:Cc:159:TYR:HB3	12:Cc:162:ARG:HG3	1.96	0.47
12:Cc:341:PHE:HB3	12:Cc:348:ASN:ND2	2.29	0.47
13:Cd:9:ILE:HD13	13:Cd:150:GLY:HA2	1.96	0.47
12:Ce:396:HIS:CD2	13:Cf:263:PRO:HD3	2.50	0.47
13:Ch:15:GLN:NE2	54:Ch:501:GTP:O6	2.48	0.47
12:Da:244:GLY:H	12:Da:247:ASN:HD21	1.62	0.47
13:Db:21:TRP:CZ3	13:Db:52:PHE:HB3	2.50	0.47
13:Db:200:VAL:HG23	13:Db:256:GLN:HG2	1.96	0.47
12:Dc:341:PHE:HB3	12:Dc:348:ASN:ND2	2.29	0.47
13:Dd:21:TRP:CZ3	13:Dd:52:PHE:HB3	2.50	0.47
12:De:215:LEU:HB3	12:De:217:LEU:CD1	2.45	0.47
13:Dh:15:GLN:NE2	54:Dh:501:GTP:O6	2.48	0.47
1:0H:140:GLY:H	1:0H:183:LEU:HD21	1.80	0.47
1:0H:230:CYS:HB2	1:0H:270:HIS:HB3	1.97	0.47
1:0I:37:LEU:HB3	1:0I:42:ALA:HB3	1.97	0.47
1:0I:89:VAL:HG11	1:0I:125:GLY:HA3	1.96	0.47
1:0I:133:CYS:HB2	1:0I:145:SER:CB	2.45	0.47
1:0K:133:CYS:HB2	1:0K:145:SER:HB2	1.96	0.47
1:0K:379:CYS:O	1:0K:383:LEU:HG	2.15	0.47
1:0G:198:THR:HG22	1:0G:200:GLU:H	1.80	0.47
1:0G:379:CYS:O	1:0G:383:LEU:HG	2.15	0.47
1:0L:218:VAL:HG12	1:0L:255:LYS:HB3	1.97	0.47
1:0L:262:PHE:HE2	1:0L:264:ASP:HB2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0L:269:LYS:HB2	1:0L:309:ASN:HB2	1.97	0.47
1:0Q:391:ALA:HB3	1:0Q:396:LEU:HD13	1.96	0.47
1:0R:128:ASP:HA	1:0R:131:VAL:HG22	1.96	0.47
1:0R:305:SER:OG	1:0R:310:ARG:HB3	2.15	0.47
1:0R:398:THR:O	1:0R:402:ARG:HG3	2.15	0.47
1:0U:254:PRO:O	1:0U:258:THR:HG23	2.15	0.47
1:0Y:50:LEU:HD11	1:0Y:99:TYR:HE1	1.80	0.47
1:0Y:227:ARG:HG3	1:0Y:267:VAL:HG22	1.96	0.47
1:0Z:65:LEU:CD2	1:0Z:84:ILE:HG21	2.45	0.47
1:0Z:335:LYS:HE2	1:0Z:338:PRO:CG	2.45	0.47
1:1C:156:ASN:HD22	1:1C:159:LEU:HD23	1.80	0.47
2:1E:124:ASN:HA	2:1E:168:ASN:HD21	1.79	0.47
3:1H:524:ARG:HH12	3:1H:573:ALA:HB1	1.80	0.47
3:1H:941:LEU:HB2	3:1H:942:PRO:HD3	1.95	0.47
4:1K:99:TYR:CE1	4:1K:187:ALA:HB1	2.50	0.47
7:1O:653:GLY:HA3	7:1O:1219:SER:OG	2.14	0.47
7:1O:1742:ARG:HE	7:1O:1849:ARG:HH21	1.62	0.47
10:1S:361:LYS:HD2	12:Bg:339:SER:OG	2.15	0.47
14:2F:135:ARG:NH2	13:Ab:36:MET:HE2	2.28	0.47
15:2H:130:UNK:O	12:9g:218:THR:OG1	2.33	0.47
17:2J:77:UNK:C	13:Ab:84:ARG:NH2	2.78	0.47
24:2U:145:TRP:HZ2	24:2U:162:MET:SD	2.38	0.47
12:2a:182:PRO:O	12:2a:186:THR:HG22	2.15	0.47
13:2b:240:ALA:O	13:2b:356:ASN:ND2	2.47	0.47
12:2c:248:ALA:CB	12:2c:252:LYS:HD2	2.45	0.47
13:2d:21:TRP:CZ3	13:2d:52:PHE:HB3	2.50	0.47
12:2e:313:ALA:O	12:2e:349:VAL:HA	2.15	0.47
12:2e:377:MET:HE2	12:2e:377:MET:HB2	1.60	0.47
30:3F:589:ARG:O	30:3F:593:VAL:HG22	2.15	0.47
31:3H:246:TYR:HE2	12:Aa:427:ASP:CG	2.23	0.47
31:3I:113:VAL:HG12	31:3I:117:GLU:OE1	2.14	0.47
31:3I:116:VAL:HG22	31:3I:203:ALA:HB1	1.97	0.47
31:3I:254:ALA:O	31:3I:257:LEU:HG	2.15	0.47
33:3L:38:LEU:HG	33:3L:57:LEU:HD21	1.97	0.47
34:3O:265:GLN:NE2	34:3O:463:HIS:HA	2.28	0.47
34:3O:271:ALA:HA	34:3O:274:ILE:HD11	1.96	0.47
34:3O:373:ALA:O	34:3O:376:THR:HG22	2.15	0.47
34:3O:492:LEU:HB3	34:3O:496:TYR:CZ	2.49	0.47
34:3Q:104:ARG:HG2	34:3Q:390:LEU:HD23	1.97	0.47
34:3Q:361:LEU:HD23	34:3Q:362:PRO:C	2.40	0.47
34:3R:251:LEU:CD2	34:3W:492:LEU:HD13	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3S:269:GLY:HA3	34:3S:463:HIS:HD1	1.77	0.47
34:3T:440:GLU:O	34:3T:444:GLN:HG2	2.15	0.47
34:3Y:258:TYR:CD2	34:3Y:474:TRP:CD1	3.02	0.47
34:3Z:81:GLU:O	34:3Z:84:GLU:HG3	2.15	0.47
34:3Z:386:HIS:NE2	34:3Z:390:LEU:HD11	2.30	0.47
12:3c:116:VAL:O	12:3c:120:VAL:HG23	2.15	0.47
13:3d:21:TRP:CZ3	13:3d:52:PHE:HB3	2.50	0.47
12:3e:60:VAL:HG21	12:3e:86:ARG:CG	2.41	0.47
13:3h:15:GLN:NE2	54:3h:501:GTP:O6	2.48	0.47
34:4A:279:ASN:O	34:4A:282:GLN:HG3	2.15	0.47
35:4C:294:GLU:HB3	35:4C:295:PRO:HD3	1.95	0.47
35:4C:811:ARG:HH22	37:4E:1681:ARG:HG2	1.80	0.47
36:4D:24:GLN:HE22	36:4D:140:ARG:HD3	1.80	0.47
37:4E:959:LEU:O	37:4E:970:SER:HA	2.15	0.47
37:4F:518:LEU:HG	37:4F:678:LEU:HD12	1.97	0.47
37:4F:671:LEU:HD22	38:4K:39:HIS:C	2.40	0.47
37:4F:692:MET:HE1	38:4K:87:HIS:HD2	1.80	0.47
37:4F:1076:THR:HG22	37:4F:1077:THR:O	2.15	0.47
37:4F:1082:LEU:CB	38:4N:38:VAL:HG12	2.45	0.47
37:4F:1082:LEU:HD22	38:4N:39:HIS:O	2.15	0.47
37:4G:523:PRO:O	37:4G:527:VAL:HG23	2.15	0.47
37:4G:933:ARG:HH21	38:4I:71:GLU:HB3	1.79	0.47
37:4G:1338:PHE:CD1	38:4L:31:ALA:O	2.67	0.47
37:4H:1082:LEU:O	38:4M:35:ALA:CA	2.63	0.47
38:4J:25:PRO:C	38:4J:28:VAL:N	2.61	0.47
38:4J:37:GLY:O	38:4J:40:LYS:HB3	2.15	0.47
38:4K:73:PRO:HB2	38:4K:75:ASN:H	1.80	0.47
39:4R:4:LEU:CA	43:5J:93:MET:HE1	2.44	0.47
39:4S:48:LEU:HG	44:5U:128:MET:CE	2.45	0.47
40:4T:297:ASP:O	40:4T:301:LEU:HG	2.14	0.47
40:4V:297:ASP:O	40:4V:301:LEU:HG	2.14	0.47
41:4Y:161:PHE:HA	41:4Y:166:GLY:HA3	1.97	0.47
42:5H:19:ILE:HG12	42:5H:62:HIS:CE1	2.50	0.47
42:5H:98:PHE:HE1	42:5H:102:MET:HE3	1.78	0.47
44:5V:30:THR:HB	44:5V:66:THR:HB	1.97	0.47
12:5a:48:ASN:O	12:5a:62:ARG:NH2	2.42	0.47
12:5c:159:TYR:HB3	12:5c:162:ARG:HG3	1.96	0.47
47:6A:181:ARG:HA	47:6A:184:ARG:NH2	2.30	0.47
47:6A:1929:LEU:HB3	51:6M:1924:ARG:HG3	1.96	0.47
47:6B:617:TYR:CZ	47:6B:767:VAL:HG22	2.50	0.47
47:6B:1156:LEU:HD23	47:6B:1313:LYS:NZ	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:1214:LYS:N	47:6B:1215:PRO:HD2	2.30	0.47
48:6E:196:ASN:HB2	48:6E:218:ASN:ND2	2.29	0.47
48:6E:633:PHE:CE1	48:6E:673:VAL:HG21	2.50	0.47
48:6E:997:ARG:NH1	50:6K:427:PRO:HG2	2.29	0.47
48:6E:1020:ILE:HG12	48:6E:1026:THR:HG22	1.96	0.47
48:6F:196:ASN:HB2	48:6F:218:ASN:ND2	2.29	0.47
49:6G:56:ILE:HG22	49:6G:62:PRO:HG3	1.98	0.47
49:6G:234:LEU:HD13	49:6G:272:ALA:HB2	1.97	0.47
49:6H:56:ILE:HG22	49:6H:62:PRO:HG3	1.97	0.47
49:6H:234:LEU:HD13	49:6H:272:ALA:HB2	1.97	0.47
49:6I:286:MET:HG2	49:6I:333:VAL:HG21	1.95	0.47
12:6a:86:ARG:HD2	12:7a:281:TYR:HD1	1.77	0.47
12:6c:159:TYR:HB3	12:6c:162:ARG:HG3	1.96	0.47
13:6d:137:VAL:O	13:6d:168:GLY:HA2	2.14	0.47
13:6f:21:TRP:CZ3	13:6f:52:PHE:HB3	2.50	0.47
13:6f:100:ALA:HB1	12:6g:252:LYS:HA	1.97	0.47
13:6h:205:ASP:O	13:6h:209:ILE:HG13	2.15	0.47
13:7b:212:ILE:O	13:7b:216:SER:OG	2.25	0.47
12:7c:68:LEU:HD21	12:7c:147:MET:SD	2.55	0.47
12:7c:99:ASN:HA	12:7c:142:GLY:H	1.80	0.47
13:7f:240:ALA:O	13:7f:356:ASN:ND2	2.47	0.47
13:7h:15:GLN:NE2	54:7h:501:GTP:O6	2.48	0.47
12:8c:311:LEU:HD23	12:8c:342:VAL:HG21	1.96	0.47
12:8g:236:ILE:HG12	12:8g:368:ILE:HD11	1.97	0.47
13:9d:9:ILE:HD13	13:9d:150:GLY:HA2	1.96	0.47
12:9g:20:PHE:HA	12:9g:230:SER:HB2	1.95	0.47
12:Aa:139:LEU:HD21	12:Aa:192:LEU:HD11	1.97	0.47
12:Ac:229:ILE:HA	12:Ac:300:MET:HE1	1.97	0.47
13:Ad:227:LEU:O	13:Ad:231:ILE:HG13	2.15	0.47
12:Ba:86:ARG:NH2	12:Ca:278:SER:C	2.73	0.47
12:Ba:178:THR:HG22	13:Bb:352:LYS:HZ3	1.79	0.47
13:Bd:15:GLN:NE2	54:Bd:501:GTP:O6	2.48	0.47
12:Bg:159:TYR:HB3	12:Bg:162:ARG:HG3	1.96	0.47
13:Bh:9:ILE:HD13	13:Bh:150:GLY:HA2	1.96	0.47
13:Cb:227:LEU:O	13:Cb:231:ILE:HG13	2.15	0.47
12:Cc:3:GLU:HB3	12:Cc:62:ARG:HH21	1.80	0.47
12:Cc:31:ASP:HB2	12:Cc:32:PRO:HD2	1.95	0.47
12:Cc:161:ASP:O	12:Cc:251:ARG:NH2	2.48	0.47
12:Cc:330:MET:SD	12:Cc:349:VAL:HG11	2.55	0.47
12:Cg:139:LEU:HD12	12:Cg:170:VAL:HG22	1.97	0.47
13:Dd:15:GLN:NE2	54:Dd:501:GTP:O6	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Df:15:GLN:NE2	54:Df:501:GTP:O6	2.48	0.47
13:Df:21:TRP:CZ3	13:Df:52:PHE:HB3	2.50	0.47
12:Dg:174:LYS:NZ	13:Dh:333:ALA:HA	2.30	0.47
12:Dg:341:PHE:HB3	12:Dg:348:ASN:ND2	2.29	0.47
1:0H:365:ARG:HH12	1:0H:402:ARG:HB3	1.80	0.47
1:0J:414:LEU:HD11	1:0J:439:LYS:HA	1.97	0.47
1:0I:65:LEU:HD22	1:0I:84:ILE:HD13	1.96	0.47
1:0I:176:VAL:HG11	1:0I:213:TYR:HB3	1.96	0.47
1:0A:32:GLN:HA	47:6A:247:VAL:HG11	1.96	0.46
1:0B:156:ASN:HB3	1:0B:159:LEU:HD13	1.97	0.46
1:0C:45:LEU:C	1:0C:48:PRO:HD2	2.40	0.46
1:0G:411:LEU:O	1:0G:411:LEU:HG	2.15	0.46
1:0N:137:PHE:HB2	32:3J:77:ARG:HB2	1.96	0.46
1:0O:37:LEU:HB3	1:0O:42:ALA:HB3	1.98	0.46
1:0P:143:GLU:OE2	1:0P:182:SER:OG	2.31	0.46
1:0P:363:ILE:HG22	1:0P:370:HIS:HB3	1.97	0.46
1:0P:365:ARG:HH12	1:0P:402:ARG:HB3	1.80	0.46
1:0Q:21:VAL:HA	1:0Q:24:VAL:HG22	1.97	0.46
1:0Q:133:CYS:HB2	1:0Q:145:SER:CB	2.45	0.46
1:0Q:214:LEU:HD22	1:0Q:229:VAL:HG12	1.97	0.46
1:0R:17:ARG:O	1:0R:21:VAL:HG23	2.14	0.46
1:0R:34:ILE:HG23	1:0R:68:LEU:CD2	2.43	0.46
1:0R:343:ALA:O	1:0R:346:GLU:C	2.58	0.46
1:0R:365:ARG:N	1:0R:406:SER:OG	2.48	0.46
1:0S:34:ILE:HG23	1:0S:68:LEU:HD22	1.97	0.46
1:0S:85:LEU:O	1:0S:89:VAL:HG13	2.15	0.46
1:0T:65:LEU:HD22	1:0T:84:ILE:HG21	1.97	0.46
1:0T:92:LEU:HB3	1:0T:133:CYS:SG	2.55	0.46
1:0U:301:TYR:OH	1:0U:309:ASN:O	2.22	0.46
1:0V:362:GLN:O	1:0V:366:HIS:CD2	2.68	0.46
1:0Y:47:ARG:CG	1:0Y:48:PRO:HD3	2.45	0.46
1:0Y:156:ASN:HB3	1:0Y:159:LEU:HD13	1.98	0.46
1:0Z:45:LEU:C	1:0Z:48:PRO:HD2	2.40	0.46
1:0Z:227:ARG:HG3	1:0Z:267:VAL:HG22	1.96	0.46
1:1A:224:LYS:O	1:1A:228:GLN:HG2	2.15	0.46
1:1B:414:LEU:HD11	1:1B:439:LYS:HA	1.97	0.46
1:1C:290:VAL:HG22	1:1C:295:VAL:HG11	1.97	0.46
2:1E:60:ASP:O	2:1E:62:LEU:N	2.36	0.46
3:1I:104:ASN:HA	3:1I:107:THR:HG22	1.97	0.46
5:1L:425:VAL:HG22	5:1L:431:VAL:HG21	1.96	0.46
5:1M:564:ARG:HG3	5:1M:567:ARG:NH2	2.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1N:960:ALA:O	6:1N:964:ILE:HG13	2.14	0.46
7:1O:230:LEU:HD13	7:1O:239:ALA:HB1	1.95	0.46
7:1O:342:VAL:HG21	7:1O:347:LEU:HD12	1.97	0.46
12:1a:112:LEU:O	12:1a:116:VAL:HG23	2.14	0.46
13:1b:15:GLN:NE2	54:1b:501:GTP:O6	2.48	0.46
12:1c:202:LEU:HD22	12:1c:300:MET:HE2	1.97	0.46
12:1c:330:MET:O	12:1c:333:VAL:HG12	2.14	0.46
12:1e:222:PHE:HD2	13:1f:247:ALA:HB1	1.79	0.46
13:1h:15:GLN:NE2	54:1h:501:GTP:O6	2.48	0.46
13:1h:130:THR:OG1	13:1h:131:GLY:N	2.49	0.46
14:2G:115:GLN:HB2	12:Be:75:SER:HA	1.97	0.46
15:2H:158:UNK:HA	12:7g:77:ARG:HH12	1.80	0.46
13:2b:130:THR:OG1	13:2b:131:GLY:N	2.49	0.46
12:2c:21:TRP:CZ3	12:2c:61:PRO:HB3	2.51	0.46
13:2d:130:THR:OG1	13:2d:131:GLY:N	2.49	0.46
13:2d:205:ASP:O	13:2d:209:ILE:HG13	2.15	0.46
12:2e:3:GLU:HB3	12:2e:62:ARG:NH2	2.30	0.46
13:2f:240:ALA:O	13:2f:356:ASN:ND2	2.47	0.46
12:2g:177:ASP:N	12:2g:181:GLU:OE2	2.48	0.46
12:2g:267:MET:HG2	12:2g:301:CYS:HB3	1.96	0.46
13:2h:130:THR:OG1	13:2h:131:GLY:N	2.49	0.46
28:3C:553:ARG:NH1	12:3g:110:ALA:HB3	2.30	0.46
30:3G:627:LEU:HA	30:3G:627:LEU:HD23	1.64	0.46
30:3G:725:TYR:CE1	30:3G:729:LEU:HD11	2.50	0.46
33:3L:46:ASN:HA	33:3L:68:ARG:HE	1.79	0.46
34:3N:326:GLU:OE2	34:3N:327:VAL:HG23	2.15	0.46
34:3O:104:ARG:HG2	34:3O:390:LEU:HD23	1.95	0.46
34:3P:51:GLY:O	34:3P:54:GLU:HG3	2.15	0.46
34:3R:247:ASP:HB3	34:3R:248:PHE:H	1.48	0.46
34:3R:263:LYS:HA	34:3R:266:HIS:CD2	2.50	0.46
34:3T:503:ASN:HA	34:3T:506:GLU:OE1	2.14	0.46
34:3V:375:TYR:O	34:3V:378:SER:OG	2.33	0.46
34:3W:199:ASP:OD2	34:3W:200:ALA:N	2.47	0.46
34:3X:81:GLU:O	34:3X:84:GLU:HG3	2.15	0.46
34:3Z:496:TYR:HD2	34:3Z:497:MET:CE	2.26	0.46
12:3a:164:MET:H	12:3a:197:ASP:CG	2.24	0.46
12:3a:309:ARG:O	12:3a:372:THR:HG23	2.15	0.46
13:3d:15:GLN:NE2	54:3d:501:GTP:O6	2.48	0.46
13:3d:399:TYR:HD2	39:4S:217:LEU:C	2.22	0.46
12:3e:66:MET:SD	12:3e:116:VAL:HG21	2.55	0.46
12:3e:145:SER:HB2	12:3e:188:SER:OG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3f:130:THR:OG1	13:3f:131:GLY:N	2.49	0.46
35:4C:1051:THR:O	35:4C:1051:THR:HG22	2.14	0.46
37:4E:518:LEU:HD21	37:4E:534:HIS:CE1	2.49	0.46
37:4F:692:MET:SD	38:4K:87:HIS:HB3	2.55	0.46
37:4F:1323:ILE:HA	37:4F:1323:ILE:N	2.10	0.46
37:4G:969:LEU:CD2	37:4G:1377:VAL:HG21	2.45	0.46
37:4G:1341:ILE:HG23	37:4G:1350:ILE:HG12	1.97	0.46
37:4H:534:HIS:HB2	37:4H:687:MET:HE3	1.98	0.46
37:4H:972:PHE:CZ	37:4H:974:VAL:CG2	2.98	0.46
37:4H:1135:PHE:HE1	37:4H:1150:GLY:HA2	1.79	0.46
38:4I:73:PRO:HB2	38:4I:75:ASN:H	1.80	0.46
38:4L:54:GLU:HA	38:4L:58:VAL:CG2	2.43	0.46
38:4M:36:VAL:O	38:4M:36:VAL:CG2	2.62	0.46
39:4R:206:MET:HE3	39:4R:206:MET:HB3	1.77	0.46
40:4T:517:PRO:HA	40:4T:520:GLU:HG3	1.98	0.46
12:4a:50:TYR:CE2	12:4a:241:ARG:HD3	2.49	0.46
12:4a:150:LEU:O	12:4a:153:SER:OG	2.31	0.46
13:4b:222:PRO:O	12:4c:322:SER:HB2	2.14	0.46
13:4b:227:LEU:O	13:4b:231:ILE:HG13	2.15	0.46
12:4c:99:ASN:HA	12:4c:142:GLY:H	1.80	0.46
12:4c:311:LEU:HD23	12:4c:342:VAL:HG21	1.96	0.46
12:4e:172:SER:HB2	12:4e:205:GLU:HG3	1.96	0.46
13:4f:227:LEU:O	13:4f:231:ILE:HG13	2.15	0.46
12:4g:139:LEU:HD22	12:4g:188:SER:HB3	1.97	0.46
42:5E:136:HIS:HB3	42:5E:139:LEU:CD1	2.44	0.46
43:5K:40:ASN:CG	43:5K:41:ASP:N	2.73	0.46
43:5L:52:LEU:O	43:5L:52:LEU:HG	2.04	0.46
44:5T:77:ALA:O	44:5T:81:LYS:HG2	2.15	0.46
12:5a:21:TRP:CD1	12:5a:85:PHE:HE1	2.33	0.46
12:5a:170:VAL:CG2	12:5a:201:VAL:HG23	2.45	0.46
13:5b:15:GLN:NE2	54:5c:501:GTP:O6	2.48	0.46
12:5c:120:VAL:HG21	12:5c:155:ILE:HD11	1.97	0.46
12:5c:229:ILE:HA	12:5c:300:MET:HE1	1.96	0.46
12:5c:236:ILE:HG12	12:5c:368:ILE:HD11	1.97	0.46
13:5d:177:VAL:CG2	12:5e:327:ASP:HB3	2.45	0.46
13:5d:181:VAL:H	12:5e:256:ASN:ND2	2.12	0.46
12:5e:161:ASP:OD1	12:5e:161:ASP:N	2.45	0.46
12:5e:192:LEU:HD13	12:5e:199:CYS:SG	2.55	0.46
12:5g:48:ASN:O	12:5g:62:ARG:NH2	2.42	0.46
12:5g:183:TYR:OH	12:5g:388:MET:HB3	2.14	0.46
12:5g:202:LEU:HD22	12:5g:300:MET:HE2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5g:229:ILE:HA	12:5g:300:MET:HE1	1.96	0.46
47:6A:1214:LYS:N	47:6A:1215:PRO:HD2	2.30	0.46
47:6B:181:ARG:HA	47:6B:184:ARG:NH2	2.30	0.46
49:6I:295:THR:OG1	49:6I:297:ASP:OD2	2.23	0.46
50:6K:106:VAL:HG13	50:6K:113:GLU:OE2	2.16	0.46
50:6K:478:PRO:HA	50:6K:500:THR:CG2	2.44	0.46
50:6K:499:LYS:HE2	50:6K:499:LYS:HB2	1.58	0.46
50:6L:106:VAL:HG13	50:6L:113:GLU:OE2	2.16	0.46
50:6L:478:PRO:HA	50:6L:500:THR:CG2	2.44	0.46
51:6M:1561:PHE:HB3	51:6M:1984:ALA:HB3	1.98	0.46
51:6M:1715:LYS:HE3	51:6M:1715:LYS:HB3	1.75	0.46
51:6N:1241:VAL:HG11	51:6N:1251:LYS:CG	2.44	0.46
51:6N:1561:PHE:HB3	51:6N:1984:ALA:HB3	1.98	0.46
51:6N:1715:LYS:HE3	51:6N:1715:LYS:HB3	1.75	0.46
51:6N:2146:ASN:O	51:6N:2273:THR:OG1	2.22	0.46
12:6a:141:GLY:O	12:6a:145:SER:OG	2.28	0.46
12:6a:172:SER:HB2	12:6a:205:GLU:CD	2.41	0.46
13:6b:15:GLN:NE2	54:6c:501:GTP:O6	2.48	0.46
13:6b:137:VAL:O	13:6b:168:GLY:HA2	2.14	0.46
12:6c:21:TRP:CZ3	12:6c:61:PRO:HB3	2.50	0.46
12:6c:68:LEU:HB3	12:6c:96:GLY:HA2	1.96	0.46
12:6e:161:ASP:O	12:6e:251:ARG:NH2	2.48	0.46
13:7b:9:ILE:HD13	13:7b:150:GLY:HA2	1.96	0.46
13:7d:15:GLN:NE2	54:7e:501:GTP:O6	2.48	0.46
12:7g:68:LEU:HD21	12:7g:147:MET:SD	2.55	0.46
12:8c:267:MET:HG2	12:8c:301:CYS:HB3	1.96	0.46
13:8h:21:TRP:CZ3	13:8h:52:PHE:HB3	2.50	0.46
13:8h:90:GLU:OE1	13:8h:121:ARG:NE	2.44	0.46
13:9d:15:GLN:NE2	54:9e:501:GTP:O6	2.48	0.46
12:9e:201:VAL:HG23	12:9e:301:CYS:HB2	1.95	0.46
13:9f:227:LEU:O	13:9f:231:ILE:HG13	2.15	0.46
12:Aa:208:TYR:CE1	13:Ab:326:LYS:HB2	2.50	0.46
13:Ab:191:THR:HA	13:Ab:194:LEU:HG	1.98	0.46
13:Ad:21:TRP:CZ3	13:Ad:52:PHE:HB3	2.50	0.46
12:Ae:313:ALA:O	12:Ae:349:VAL:HA	2.14	0.46
13:Af:191:THR:HA	13:Af:194:LEU:HG	1.98	0.46
12:Ag:391:ARG:NH2	13:Ah:438:GLU:O	2.49	0.46
12:Ba:267:MET:HE1	12:Ba:305:PRO:HG3	1.96	0.46
13:Bb:21:TRP:CZ3	13:Bb:52:PHE:HB3	2.50	0.46
13:Bh:227:LEU:O	13:Bh:231:ILE:HG13	2.15	0.46
12:Cc:343:GLU:OE2	12:Cc:429:SER:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Cc:377:MET:O	12:Cc:381:VAL:HG23	2.15	0.46
13:Cd:212:ILE:O	13:Cd:216:SER:OG	2.25	0.46
12:Cc:318:ARG:HB3	12:Cc:357:PRO:HA	1.98	0.46
12:Da:251:ARG:O	12:Da:255:VAL:HG13	2.15	0.46
12:Da:313:ALA:O	12:Da:349:VAL:HA	2.15	0.46
12:Da:404:ASP:OD2	12:Da:405:GLU:N	2.48	0.46
13:Db:15:GLN:NE2	54:Db:501:GTP:O6	2.48	0.46
13:Db:227:LEU:O	13:Db:231:ILE:HG13	2.15	0.46
12:De:16:ILE:HD11	12:De:229:ILE:HG21	1.97	0.46
12:De:67:ASP:O	12:De:92:PHE:HA	2.16	0.46
1:0H:85:LEU:HD21	1:0H:121:VAL:HG22	1.96	0.46
1:0H:91:SER:HB3	1:0H:103:ALA:HB2	1.97	0.46
1:0W:55:PRO:HB2	1:0W:96:ASN:ND2	2.30	0.46
1:0I:214:LEU:HD22	1:0I:229:VAL:HG12	1.97	0.46
1:0K:156:ASN:HD22	1:0K:159:LEU:HD23	1.80	0.46
1:0A:225:LEU:O	1:0A:229:VAL:HG22	2.14	0.46
1:0A:285:LEU:O	1:0A:289:VAL:HG23	2.14	0.46
1:0B:154:GLY:HA2	1:0B:197:HIS:NE2	2.30	0.46
1:0B:325:GLU:OE1	1:0B:367:THR:OG1	2.25	0.46
1:0C:210:ALA:O	1:0C:214:LEU:HG	2.15	0.46
1:0C:346:GLU:HG2	1:0C:346:GLU:O	2.13	0.46
1:0D:421:VAL:HG22	1:0D:432:MET:HA	1.96	0.46
1:0E:101:GLN:HE22	12:2g:406:MET:HE2	1.79	0.46
1:0E:192:SER:HB3	1:0E:231:CYS:SG	2.55	0.46
1:0E:320:ILE:HG22	1:0E:327:LEU:HB3	1.96	0.46
1:0F:297:ALA:HB2	39:4Q:136:LEU:CD1	2.45	0.46
1:0L:253:PHE:HA	1:0L:256:ILE:HB	1.97	0.46
1:0M:311:LEU:HD21	1:0M:352:LEU:HA	1.97	0.46
1:0N:343:ALA:O	1:0N:346:GLU:C	2.59	0.46
1:0Q:44:ALA:O	1:0Q:48:PRO:HD3	2.15	0.46
1:0Q:370:HIS:O	1:0Q:374:VAL:HG23	2.14	0.46
1:0S:210:ALA:O	1:0S:214:LEU:HG	2.15	0.46
1:0X:202:ALA:O	1:0X:206:VAL:HG23	2.15	0.46
1:0X:398:THR:O	1:0X:402:ARG:HG3	2.15	0.46
1:1A:270:HIS:O	1:1A:274:VAL:HG23	2.15	0.46
2:1E:231:ASN:O	2:1E:233:LEU:N	2.45	0.46
2:1F:176:HIS:O	2:1F:179:HIS:CE1	2.68	0.46
3:1H:505:GLY:HA3	3:1H:549:VAL:CG2	2.45	0.46
3:1H:632:ASP:OD2	4:1J:129:PRO:HD3	2.15	0.46
3:1H:832:LEU:HD13	3:1H:875:ALA:HB2	1.96	0.46
4:1J:99:TYR:CE1	4:1J:187:ALA:HB1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1M:391:ASP:OD1	5:1M:436:ARG:HB3	2.15	0.46
5:1M:425:VAL:HG22	5:1M:431:VAL:HG21	1.96	0.46
6:1N:376:SER:O	6:1N:380:THR:HG23	2.14	0.46
7:1O:1033:LEU:HD23	7:1O:1097:ALA:HB1	1.98	0.46
7:1O:1388:LEU:HD13	44:5V:57:SER:OG	2.14	0.46
7:1O:1422:LEU:HD21	44:5V:95:VAL:CG1	2.45	0.46
7:1O:2878:LEU:HD22	7:1O:3002:TYR:HA	1.96	0.46
7:1O:2894:VAL:HG13	7:1O:2959:MET:SD	2.55	0.46
8:1P:775:ARG:NE	8:1P:777:VAL:HG22	2.30	0.46
10:1R:171:PRO:HB2	12:Ac:431:GLU:CD	2.40	0.46
10:1S:172:VAL:HG23	13:Af:393:HIS:CE1	2.51	0.46
13:1b:130:THR:OG1	13:1b:131:GLY:N	2.49	0.46
12:1c:236:ILE:HG12	12:1c:368:ILE:HD11	1.98	0.46
13:1d:15:GLN:NE2	54:1d:501:GTP:O6	2.48	0.46
13:1d:130:THR:OG1	13:1d:131:GLY:N	2.49	0.46
13:2b:223:THR:HG23	13:2b:225:THR:HG23	1.98	0.46
12:2c:68:LEU:HB3	12:2c:96:GLY:HA2	1.96	0.46
13:2d:223:THR:HG23	13:2d:225:THR:HG23	1.98	0.46
12:2e:330:MET:SD	12:2e:349:VAL:HG11	2.56	0.46
12:2e:396:HIS:NE2	13:2f:262:TYR:HA	2.31	0.46
13:2f:130:THR:OG1	13:2f:131:GLY:N	2.49	0.46
13:2f:200:VAL:HG23	13:2f:256:GLN:HG2	1.96	0.46
12:2g:68:LEU:HD23	12:2g:143:THR:HG22	1.96	0.46
13:2h:223:THR:HG23	13:2h:225:THR:HG23	1.98	0.46
13:2h:240:ALA:O	13:2h:356:ASN:ND2	2.47	0.46
30:3F:516:LEU:HD13	12:7a:154:LYS:NZ	2.31	0.46
30:3F:566:ARG:HA	30:3F:569:ILE:HD11	1.97	0.46
31:3I:278:ALA:HB1	13:9h:399:TYR:OH	2.15	0.46
32:3J:120:TYR:HA	32:3J:136:LEU:O	2.15	0.46
34:3N:36:ILE:HG22	34:3Q:87:ASN:HD21	1.80	0.46
34:3O:117:ARG:O	34:3O:121:LEU:HD23	2.15	0.46
34:3O:125:ARG:HD2	34:3O:361:LEU:CD1	2.33	0.46
34:3R:113:GLU:HG2	34:4B:244:ARG:HB2	1.97	0.46
34:3S:99:ARG:HA	34:3S:102:GLN:OE1	2.15	0.46
34:3U:49:PHE:CD1	34:3U:288:MET:HE1	2.50	0.46
34:3X:276:GLU:CG	34:3X:456:LEU:HB2	2.45	0.46
34:3Z:258:TYR:CZ	34:3Z:474:TRP:HA	2.50	0.46
12:3a:318:ARG:HB3	12:3a:357:PRO:HA	1.98	0.46
13:3b:21:TRP:CZ3	13:3b:52:PHE:HB3	2.50	0.46
13:3b:130:THR:OG1	13:3b:131:GLY:N	2.49	0.46
13:3f:21:TRP:CZ3	13:3f:52:PHE:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3g:21:TRP:CZ3	12:3g:61:PRO:HB3	2.51	0.46
12:3g:202:LEU:HD22	12:3g:300:MET:HE2	1.97	0.46
13:3h:130:THR:OG1	13:3h:131:GLY:N	2.49	0.46
13:3h:205:ASP:O	13:3h:209:ILE:HG13	2.15	0.46
37:4E:573:ALA:O	43:5L:30:ARG:CZ	2.63	0.46
37:4E:575:SER:HA	43:5L:31:ASP:OD1	2.15	0.46
37:4E:585:VAL:HG11	43:5L:9:ASP:CB	2.23	0.46
37:4F:1333:VAL:CB	38:4N:30:ALA:CA	2.93	0.46
37:4G:429:TYR:HD2	37:4G:854:TYR:CE1	2.33	0.46
37:4G:1333:VAL:HG13	38:4L:27:ALA:N	2.29	0.46
37:4H:1091:VAL:CG2	37:4H:1091:VAL:N	2.78	0.46
37:4H:1137:ALA:O	37:4H:1145:VAL:CB	2.63	0.46
38:4K:54:GLU:HA	38:4K:58:VAL:CG2	2.43	0.46
38:4N:48:PRO:CD	38:4N:49:ILE:HD12	2.45	0.46
39:4S:4:LEU:HD21	43:5K:137:ARG:HD3	1.97	0.46
40:4U:517:PRO:HA	40:4U:520:GLU:HG3	1.98	0.46
40:4V:63:VAL:HG21	40:4V:413:ARG:O	2.15	0.46
12:4a:3:GLU:HB3	12:4a:62:ARG:HH21	1.80	0.46
13:4b:21:TRP:CZ3	13:4b:52:PHE:HB3	2.50	0.46
12:4c:173:PRO:HA	12:4c:380:ARG:HD2	1.96	0.46
13:4d:200:VAL:HG23	13:4d:256:GLN:HG2	1.96	0.46
13:4d:223:THR:HG23	13:4d:225:THR:HG23	1.98	0.46
13:4d:227:LEU:O	13:4d:231:ILE:HG13	2.15	0.46
13:4h:200:VAL:HG23	13:4h:256:GLN:HG2	1.96	0.46
13:4h:223:THR:HG23	13:4h:225:THR:HG23	1.98	0.46
13:4h:268:MET:HB3	13:4h:378:ILE:HG23	1.95	0.46
41:5D:167:PRO:CB	41:5D:172:GLN:H	2.28	0.46
42:5H:41:TYR:CD2	42:5H:51:LEU:HD13	2.51	0.46
42:5H:84:THR:OG1	42:5H:94:CYS:CB	2.62	0.46
42:5H:133:LEU:CD1	43:5L:46:PRO:HB2	2.44	0.46
42:5H:139:LEU:CD1	43:5L:145:SER:HB2	2.46	0.46
43:5J:32:LEU:HG	43:5J:36:TYR:HE2	1.81	0.46
44:5R:116:LEU:HD23	44:5U:22:LEU:HD22	1.96	0.46
12:5a:161:ASP:O	12:5a:251:ARG:NH2	2.48	0.46
13:5d:15:GLN:NE2	54:5d:501:GTP:O6	2.48	0.46
13:5f:15:GLN:NE2	54:5f:501:GTP:O6	2.48	0.46
12:5g:21:TRP:CZ3	12:5g:61:PRO:HB3	2.50	0.46
47:6B:180:ILE:HA	47:6B:183:GLN:HG3	1.96	0.46
47:6B:402:MET:HB3	3:6D:995:PHE:CZ	2.51	0.46
47:6B:1244:LEU:HD11	51:6N:2361:ALA:HB2	1.97	0.46
47:6B:1369:GLN:NE2	47:6B:1370:ARG:HG2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6D:84:VAL:HG12	3:6D:133:THR:HG21	1.97	0.46
3:6D:813:VAL:HG22	3:6D:853:LEU:HD21	1.96	0.46
48:6E:166:THR:O	48:6E:188:LEU:HD12	2.14	0.46
48:6E:867:SER:OG	48:6E:883:LYS:N	2.48	0.46
48:6F:102:LEU:HD12	48:6F:122:ASN:HD21	1.79	0.46
48:6F:633:PHE:CE1	48:6F:673:VAL:HG21	2.50	0.46
48:6F:803:GLU:OE2	49:6J:25:LYS:HE3	2.16	0.46
50:6L:179:GLU:HB3	50:6L:180:PRO:HD3	1.96	0.46
50:6L:244:VAL:HG13	50:6L:269:LEU:HD23	1.97	0.46
51:6M:1241:VAL:HG11	51:6M:1251:LYS:CG	2.44	0.46
51:6M:2248:LYS:N	51:6M:2252:TYR:OH	2.48	0.46
13:6b:21:TRP:CZ3	13:6b:52:PHE:HB3	2.50	0.46
13:6b:404:PHE:CE1	12:6c:259:PRO:HA	2.50	0.46
12:6c:50:TYR:CE2	12:6c:241:ARG:HD3	2.50	0.46
12:6c:311:LEU:HD23	12:6c:342:VAL:HG21	1.97	0.46
12:6c:397:TRP:NE1	13:6d:257:THR:HA	2.30	0.46
12:6g:31:ASP:HB2	12:6g:32:PRO:HD2	1.97	0.46
12:6g:229:ILE:HA	12:6g:300:MET:HE1	1.96	0.46
13:7f:15:GLN:NE2	54:7f:501:GTP:O6	2.48	0.46
12:7g:173:PRO:HA	12:7g:380:ARG:HD2	1.97	0.46
13:7h:9:ILE:HD13	13:7h:150:GLY:HA2	1.96	0.46
12:8a:23:VAL:HA	12:8a:26:ASP:OD2	2.16	0.46
12:8a:52:ASN:O	12:8a:60:VAL:HG22	2.14	0.46
12:8c:88:ASP:N	12:8c:88:ASP:OD2	2.43	0.46
12:8c:330:MET:O	12:8c:333:VAL:HG22	2.16	0.46
12:8e:279:GLN:C	12:8e:281:TYR:N	2.71	0.46
13:8f:21:TRP:CZ3	13:8f:52:PHE:HB3	2.50	0.46
13:8h:15:GLN:NE2	54:8h:501:GTP:O6	2.48	0.46
13:8h:191:THR:HA	13:8h:194:LEU:HG	1.98	0.46
13:9b:227:LEU:O	13:9b:231:ILE:HG13	2.15	0.46
13:9d:210:TYR:CE1	12:9e:324:LYS:HB2	2.50	0.46
13:9h:130:THR:OG1	13:9h:131:GLY:N	2.49	0.46
12:Aa:238:CYS:SG	12:Aa:239:CYS:N	2.89	0.46
13:Ab:130:THR:OG1	13:Ab:131:GLY:N	2.49	0.46
13:Ab:248:LEU:HD23	13:Ab:248:LEU:HA	1.79	0.46
12:Ac:27:GLU:OE2	12:Ac:318:ARG:NH2	2.38	0.46
13:Ad:191:THR:HA	13:Ad:194:LEU:HG	1.98	0.46
13:Ad:273:ALA:N	13:Ad:375:VAL:O	2.48	0.46
13:Ah:62:VAL:HG21	13:Bh:283:HIS:O	2.15	0.46
12:Bc:116:VAL:O	12:Bc:120:VAL:HG23	2.15	0.46
12:Be:313:ALA:O	12:Be:349:VAL:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Be:391:ARG:HG3	13:Bf:346:TRP:HB3	1.98	0.46
13:Bh:15:GLN:NE2	54:Bh:501:GTP:O6	2.48	0.46
13:Cb:223:THR:HG23	13:Cb:225:THR:HG23	1.98	0.46
13:Cb:406:HIS:CG	12:Cc:261:PRO:HD3	2.50	0.46
12:Cc:232:VAL:HG22	12:Cc:270:PHE:HB2	1.97	0.46
13:Cd:223:THR:HG23	13:Cd:225:THR:HG23	1.98	0.46
13:Cf:177:VAL:HB	12:Cg:331:LEU:HD22	1.97	0.46
13:Cf:223:THR:HG23	13:Cf:225:THR:HG23	1.98	0.46
12:Cg:228:LEU:O	12:Cg:232:VAL:HG23	2.16	0.46
13:Ch:223:THR:HG23	13:Ch:225:THR:HG23	1.98	0.46
12:Da:11:GLN:HA	12:Da:72:THR:HG21	1.96	0.46
13:Dd:227:LEU:O	13:Dd:231:ILE:HG13	2.15	0.46
12:Dg:116:VAL:O	12:Dg:120:VAL:HG23	2.14	0.46
12:Dg:159:TYR:HB3	12:Dg:162:ARG:HG3	1.96	0.46
12:Dg:202:LEU:HD22	12:Dg:300:MET:HE2	1.97	0.46
1:0J:97:ARG:HD3	1:0J:138:ASP:OD1	2.15	0.46
1:0W:118:ALA:HB1	1:0W:152:ILE:HG12	1.97	0.46
1:0W:411:LEU:O	1:0W:411:LEU:HG	2.15	0.46
1:0K:45:LEU:C	1:0K:48:PRO:HD2	2.40	0.46
1:0A:167:GLY:C	1:0A:169:VAL:H	2.20	0.46
1:0A:338:PRO:HB2	1:0A:339:PRO:HD3	1.97	0.46
1:0B:248:VAL:HA	1:0B:253:PHE:CE2	2.48	0.46
1:0C:335:LYS:HE2	1:0C:338:PRO:CG	2.45	0.46
1:0D:172:LEU:HD22	1:0D:187:ALA:HA	1.98	0.46
1:0D:223:ALA:HB2	1:0D:262:PHE:CZ	2.50	0.46
1:0E:30:ASN:HB2	1:0E:33:ASN:CG	2.40	0.46
1:0F:30:ASN:O	1:0F:34:ILE:HG13	2.16	0.46
1:0M:56:SER:O	1:0M:59:GLN:HG2	2.14	0.46
1:0M:355:ALA:O	1:0M:359:THR:HG23	2.16	0.46
1:0N:346:GLU:HG2	1:0N:346:GLU:O	2.14	0.46
1:0P:86:PRO:HA	1:0P:89:VAL:HG22	1.97	0.46
1:0X:365:ARG:HG3	1:0X:406:SER:OG	2.13	0.46
1:1A:53:ASN:OD1	1:1A:53:ASN:N	2.44	0.46
1:1B:390:GLY:CA	1:1B:397:LYS:HZ3	2.29	0.46
2:1D:82:LEU:HD11	2:1D:118:PRO:HB3	1.97	0.46
2:1E:82:LEU:HD11	2:1E:118:PRO:HB3	1.98	0.46
2:1E:136:ASP:OD1	2:1E:139:ARG:NH1	2.49	0.46
2:1E:426:LEU:O	2:1E:427:GLU:C	2.58	0.46
3:1H:873:GLN:O	3:1H:877:HIS:HB3	2.15	0.46
3:1H:945:ILE:HG12	47:6A:381:GLN:NE2	2.31	0.46
3:1I:953:ILE:O	3:1I:956:VAL:HG22	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1J:26:GLN:OE1	4:1J:61:PRO:HD3	2.15	0.46
4:1J:94:VAL:HB	4:1J:185:VAL:HG12	1.97	0.46
4:1K:94:VAL:HB	4:1K:185:VAL:HG12	1.97	0.46
5:1L:391:ASP:OD1	5:1L:436:ARG:HB3	2.15	0.46
6:1N:477:LEU:HD13	8:1P:744:GLU:OE1	2.15	0.46
6:1N:546:PRO:HB3	6:1N:552:GLU:CD	2.40	0.46
6:1N:706:VAL:HG13	6:1N:732:LEU:HD21	1.98	0.46
7:1O:412:GLN:H	7:1O:412:GLN:CD	2.22	0.46
9:1Q:642:ARG:HA	9:1Q:660:VAL:HA	1.98	0.46
10:1R:299:ASP:C	31:3H:182:GLN:HE22	2.23	0.46
13:1b:223:THR:HG23	13:1b:225:THR:HG23	1.98	0.46
12:1c:159:TYR:HB3	12:1c:162:ARG:HG3	1.96	0.46
12:1e:388:MET:HA	13:1f:346:TRP:O	2.16	0.46
13:1f:130:THR:OG1	13:1f:131:GLY:N	2.49	0.46
13:1f:223:THR:HG23	13:1f:225:THR:HG23	1.98	0.46
14:2F:44:LYS:HD3	13:Db:243:ARG:O	2.16	0.46
24:2U:140:PRO:HG2	13:Cd:117:LEU:HD21	1.97	0.46
24:2U:202:ARG:NH1	12:Cc:410:GLU:OE2	2.49	0.46
12:2a:377:MET:HE2	12:2a:377:MET:HB2	1.58	0.46
13:2b:9:ILE:HD13	13:2b:150:GLY:HA2	1.96	0.46
13:2b:179:THR:O	12:2c:350:LYS:HD2	2.16	0.46
13:2b:200:VAL:HG23	13:2b:256:GLN:HG2	1.96	0.46
13:2b:227:LEU:O	13:2b:231:ILE:HG13	2.15	0.46
12:2c:130:LEU:HB3	12:2c:162:ARG:HD3	1.98	0.46
12:2c:159:TYR:HB3	12:2c:162:ARG:HG3	1.97	0.46
13:2d:200:VAL:HG23	13:2d:256:GLN:HG2	1.96	0.46
13:2d:227:LEU:O	13:2d:231:ILE:HG13	2.15	0.46
13:2f:9:ILE:HD13	13:2f:150:GLY:HA2	1.96	0.46
13:2f:223:THR:HG23	13:2f:225:THR:HG23	1.98	0.46
13:2f:227:LEU:O	13:2f:231:ILE:HG13	2.15	0.46
13:2h:200:VAL:HG23	13:2h:256:GLN:HG2	1.96	0.46
13:2h:205:ASP:O	13:2h:209:ILE:HG13	2.15	0.46
30:3F:233:VAL:N	12:5c:390:ARG:O	2.38	0.46
30:3F:300:ARG:CB	13:6f:427:ALA:HB1	2.45	0.46
30:3G:652:THR:HG21	13:7d:400:ALA:HA	1.98	0.46
31:3H:107:ARG:O	31:3H:111:THR:HG23	2.15	0.46
32:3J:352:ALA:CB	12:9a:413:SER:HB2	2.43	0.46
32:3K:265:ALA:O	32:3K:269:THR:HG23	2.15	0.46
34:3M:38:HIS:CE1	34:3M:452:HIS:CE1	3.03	0.46
34:3M:352:LEU:HG	34:3M:375:TYR:HE1	1.79	0.46
34:3N:264:SER:O	34:3N:268:GLN:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3R:276:GLU:HG3	34:3R:459:ILE:CD1	2.45	0.46
34:3T:438:ILE:HB	34:3T:439:PRO:HD3	1.97	0.46
12:3a:3:GLU:HB3	12:3a:62:ARG:HH21	1.81	0.46
13:3d:130:THR:OG1	13:3d:131:GLY:N	2.49	0.46
13:3d:205:ASP:O	13:3d:209:ILE:HG13	2.15	0.46
13:3d:223:THR:HG23	13:3d:225:THR:HG23	1.98	0.46
12:3e:64:ILE:HG12	12:3e:119:VAL:HG13	1.97	0.46
13:3f:15:GLN:NE2	54:3f:501:GTP:O6	2.48	0.46
12:3g:311:LEU:HD23	12:3g:342:VAL:HG21	1.96	0.46
13:3h:21:TRP:CZ3	13:3h:52:PHE:HB3	2.50	0.46
34:4A:487:ALA:O	34:4A:491:GLU:HG2	2.15	0.46
34:4B:74:LEU:HD21	34:4B:191:ALA:HB3	1.98	0.46
35:4C:300:PHE:CE1	35:4C:386:LEU:HD21	2.49	0.46
36:4D:210:ILE:HG22	36:4D:212:GLY:O	2.16	0.46
37:4E:1111:VAL:CG2	37:4E:1118:LEU:HD12	2.41	0.46
37:4E:1127:ARG:HD3	43:5L:133:ASP:HB3	1.96	0.46
37:4E:1313:VAL:HG21	38:4O:17:LEU:CD1	2.28	0.46
37:4F:1162:VAL:HG23	37:4F:1299:ARG:HH22	1.79	0.46
37:4G:902:GLN:HA	37:4G:906:THR:HG21	1.98	0.46
37:4G:1093:VAL:CG1	38:4L:32:GLU:O	2.64	0.46
37:4G:1158:PRO:CG	37:4G:1325:ARG:HH21	2.26	0.46
37:4G:1333:VAL:CA	38:4L:24:THR:C	2.71	0.46
37:4G:1338:PHE:HB2	38:4L:32:GLU:N	2.31	0.46
37:4G:1344:SER:O	37:4G:1345:PRO:C	2.58	0.46
37:4G:1762:GLU:HB2	43:5I:71:LYS:HE3	1.98	0.46
37:4H:518:LEU:HD23	37:4H:535:ALA:HB2	1.98	0.46
37:4H:592:GLU:OE2	37:4H:593:ALA:N	2.48	0.46
37:4H:1160:GLY:HA3	37:4H:1189:LEU:HD13	1.96	0.46
37:4H:1166:LEU:O	37:4H:1167:ASP:O	2.33	0.46
38:4K:78:GLU:O	38:4K:82:TYR:CD1	2.69	0.46
38:4L:40:LYS:NZ	38:4L:40:LYS:O	2.43	0.46
38:4L:70:LYS:HB3	38:4L:71:GLU:CD	2.41	0.46
39:4S:16:ILE:HD11	43:5K:125:GLN:HG2	1.97	0.46
40:4U:294:GLY:O	40:4U:295:THR:OG1	2.32	0.46
12:4c:236:ILE:HG12	12:4c:368:ILE:HD11	1.97	0.46
13:4d:12:ALA:HB2	54:4d:501:GTP:C8	2.51	0.46
13:4d:21:TRP:CZ3	13:4d:52:PHE:HB3	2.50	0.46
13:4f:21:TRP:CZ3	13:4f:52:PHE:HB3	2.50	0.46
13:4f:200:VAL:HG23	13:4f:256:GLN:HG2	1.96	0.46
12:4g:31:ASP:HB2	12:4g:32:PRO:HD2	1.97	0.46
41:5A:140:GLU:C	43:5L:168:GLU:C	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:52:ASP:CB	43:5L:141:LEU:HD13	2.45	0.46
42:5H:95:GLU:HA	42:5H:98:PHE:HB3	1.97	0.46
42:5H:137:TYR:CE1	43:5L:45:ASN:CB	2.94	0.46
42:5H:139:LEU:N	43:5L:146:TYR:CZ	2.83	0.46
43:5J:17:SER:O	43:5J:18:ILE:CG1	2.59	0.46
44:5S:77:ALA:O	44:5S:81:LYS:HG2	2.15	0.46
44:5U:89:LEU:HD23	44:5U:150:THR:HG23	1.98	0.46
13:5b:130:THR:OG1	13:5b:131:GLY:N	2.49	0.46
13:5d:62:VAL:HG21	13:6d:283:HIS:O	2.15	0.46
13:5f:12:ALA:HB2	54:5f:501:GTP:C8	2.51	0.46
13:5h:155:GLU:O	13:5h:159:VAL:HG23	2.16	0.46
47:6A:698:LEU:HB3	48:6F:70:TYR:HE2	1.80	0.46
47:6A:1369:GLN:NE2	47:6A:1370:ARG:HG2	2.30	0.46
47:6A:1585:ARG:O	47:6A:1589:GLU:HG2	2.15	0.46
47:6B:403:ARG:HA	3:6D:995:PHE:HE1	1.81	0.46
3:6D:589:ALA:HB2	3:6D:644:ARG:NH2	2.31	0.46
48:6E:810:LEU:HG	49:6G:3:VAL:HG21	1.97	0.46
48:6F:251:LEU:HA	48:6F:254:LEU:HD12	1.98	0.46
48:6F:867:SER:OG	48:6F:883:LYS:N	2.48	0.46
49:6G:14:LYS:HE3	49:6G:14:LYS:HB3	1.58	0.46
49:6G:278:TYR:HB2	49:6G:281:LYS:HB2	1.95	0.46
49:6J:312:SER:O	49:6J:313:GLN:HB2	2.16	0.46
50:6K:411:THR:HG22	50:6K:413:GLY:H	1.79	0.46
50:6L:73:ARG:O	50:6L:77:ARG:HG3	2.14	0.46
51:6N:1240:LYS:HG3	51:6N:1322:LEU:HD22	1.96	0.46
12:6a:16:ILE:HD11	12:6a:229:ILE:HG21	1.98	0.46
13:6b:195:LEU:HD12	13:6b:266:HIS:HE1	1.81	0.46
13:6b:221:ARG:HG2	12:6c:325:GLU:CG	2.44	0.46
13:6d:15:GLN:NE2	54:6e:501:GTP:O6	2.48	0.46
13:6d:195:LEU:HD12	13:6d:266:HIS:HE1	1.81	0.46
12:6e:86:ARG:HE	12:6e:86:ARG:HB3	1.11	0.46
13:6f:15:GLN:NE2	54:6g:501:GTP:O6	2.48	0.46
13:6f:195:LEU:HD12	13:6f:266:HIS:HE1	1.81	0.46
12:6g:55:THR:HG23	12:7g:283:ALA:HA	1.97	0.46
12:7a:161:ASP:O	12:7a:251:ARG:NH2	2.49	0.46
13:7b:21:TRP:CZ3	13:7b:52:PHE:HB3	2.50	0.46
12:7c:48:ASN:O	12:7c:62:ARG:NH2	2.42	0.46
13:7d:130:THR:OG1	13:7d:131:GLY:N	2.49	0.46
12:7e:211:CYS:SG	12:7e:220:PRO:HB3	2.54	0.46
13:7h:195:LEU:HD12	13:7h:266:HIS:HE1	1.81	0.46
13:8b:191:THR:HA	13:8b:194:LEU:HG	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:8d:191:THR:HA	13:8d:194:LEU:HG	1.98	0.46
12:8e:272:PRO:HD3	12:8e:364:SER:HA	1.97	0.46
13:8f:191:THR:HA	13:8f:194:LEU:HG	1.98	0.46
12:9a:337:ASN:HB3	12:9a:340:TYR:HD2	1.81	0.46
13:9d:130:THR:OG1	13:9d:131:GLY:N	2.49	0.46
13:9h:90:GLU:OE1	13:9h:121:ARG:NE	2.44	0.46
12:Aa:11:GLN:HG3	13:Ab:249:ASN:HB2	1.98	0.46
12:Aa:210:ILE:HG22	12:Aa:297:LYS:O	2.15	0.46
13:Ad:155:GLU:O	13:Ad:159:VAL:HG23	2.16	0.46
13:Ad:233:GLN:HG3	13:Ad:368:LEU:HD13	1.96	0.46
13:Ah:191:THR:HA	13:Ah:194:LEU:HG	1.98	0.46
12:Ba:16:ILE:HD11	12:Ba:229:ILE:HG21	1.97	0.46
12:Bc:202:LEU:HD22	12:Bc:300:MET:HE2	1.97	0.46
12:Be:218:THR:HG22	12:Be:219:THR:HG23	1.97	0.46
13:Bh:195:LEU:HD12	13:Bh:266:HIS:HE1	1.81	0.46
13:Cb:9:ILE:HD13	13:Cb:150:GLY:HA2	1.96	0.46
12:Cc:55:THR:HG23	12:Dc:282:ARG:O	2.15	0.46
12:Cc:202:LEU:HD22	12:Cc:300:MET:HE2	1.97	0.46
13:Cd:195:LEU:HD12	13:Cd:266:HIS:HE1	1.81	0.46
12:Ce:16:ILE:HD11	12:Ce:229:ILE:HG21	1.97	0.46
13:Cf:195:LEU:HD12	13:Cf:266:HIS:HE1	1.81	0.46
12:Cg:404:ASP:OD2	12:Cg:406:MET:HG3	2.16	0.46
12:Da:50:TYR:CE2	12:Da:241:ARG:HD3	2.49	0.46
12:Da:330:MET:SD	12:Da:349:VAL:HG11	2.55	0.46
12:Dc:116:VAL:O	12:Dc:120:VAL:HG23	2.14	0.46
12:De:247:ASN:O	12:De:252:LYS:NZ	2.46	0.46
12:De:304:ASP:OD2	12:De:307:HIS:ND1	2.48	0.46
12:De:313:ALA:O	12:De:349:VAL:HA	2.15	0.46
13:Df:200:VAL:HG23	13:Df:256:GLN:HG2	1.96	0.46
13:Df:223:THR:HG23	13:Df:225:THR:HG23	1.98	0.46
13:Df:227:LEU:O	13:Df:231:ILE:HG13	2.15	0.46
13:Dh:223:THR:HG23	13:Dh:225:THR:HG23	1.98	0.46
1:0H:363:ILE:HG22	1:0H:370:HIS:HB3	1.97	0.46
1:0J:158:GLU:HG3	1:0J:162:GLN:HE21	1.80	0.46
1:0W:338:PRO:HA	1:0W:341:VAL:HG22	1.98	0.46
1:0I:259:CYS:HA	1:0I:262:PHE:CD2	2.49	0.46
1:0K:72:SER:OG	1:0K:75:LEU:HG	2.16	0.46
1:0K:355:ALA:O	1:0K:359:THR:HG23	2.15	0.46
44:5P:133:ASP:HA	44:5P:140:VAL:HG22	1.96	0.46
1:0B:380:LEU:HD11	1:0B:407:VAL:HG11	1.97	0.46
1:0L:386:LEU:HB3	1:0L:396:LEU:HD21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0N:394:ASP:OD1	1:0N:395:ASP:N	2.48	0.46
1:0O:224:LYS:O	1:0O:228:GLN:HG2	2.15	0.46
1:0O:255:LYS:O	1:0O:258:THR:OG1	2.27	0.46
1:0Q:275:VAL:HG21	1:0Q:298:LEU:HD21	1.96	0.46
1:0Q:384:VAL:HG21	1:0Q:423:ARG:CZ	2.45	0.46
1:0R:67:ARG:HG3	1:0R:105:PHE:HE2	1.81	0.46
1:0T:182:SER:O	1:0T:186:ILE:HG12	2.14	0.46
1:0V:127:LEU:HD23	1:0V:130:LEU:HD12	1.96	0.46
1:0V:344:LEU:HA	1:0V:347:GLU:OE2	2.15	0.46
1:0X:67:ARG:HG3	1:0X:105:PHE:HE2	1.81	0.46
1:0Y:154:GLY:HA2	1:0Y:197:HIS:NE2	2.30	0.46
1:1A:193:ASP:O	1:1A:197:HIS:HD2	1.98	0.46
1:1C:30:ASN:O	1:1C:34:ILE:HG13	2.16	0.46
1:1C:49:LEU:HD12	1:1C:57:ILE:CG2	2.46	0.46
2:1D:60:ASP:O	2:1D:62:LEU:N	2.34	0.46
2:1E:120:GLN:HB3	2:1E:153:GLN:HE21	1.79	0.46
3:1H:284:PRO:HA	3:1H:493:ASP:OD1	2.15	0.46
3:1H:984:GLN:HE22	48:6F:346:LEU:HD11	1.80	0.46
3:1H:1010:LEU:HB3	47:6A:402:MET:HE2	1.96	0.46
3:1I:88:SER:C	3:1I:141:TYR:HE1	2.23	0.46
3:1I:661:GLY:N	3:1I:662:PRO:HD2	2.29	0.46
3:1I:926:MET:HE1	3:1I:934:LEU:HD11	1.96	0.46
4:1J:22:LYS:HG3	4:1J:90:PHE:CE1	2.51	0.46
4:1J:227:PHE:CE2	4:1J:244:LEU:HD13	2.49	0.46
4:1K:22:LYS:HG3	4:1K:90:PHE:CE1	2.51	0.46
4:1K:26:GLN:OE1	4:1K:61:PRO:HD3	2.15	0.46
5:1L:597:LYS:NZ	5:1L:600:ARG:HD3	2.30	0.46
6:1N:142:PHE:CD1	8:1P:764:GLY:HA3	2.51	0.46
6:1N:664:ALA:HB1	6:1N:701:LEU:HD21	1.97	0.46
7:1O:139:HIS:CD2	7:1O:140:PRO:HD2	2.50	0.46
7:1O:208:VAL:HG22	8:1P:908:LYS:CE	2.45	0.46
7:1O:633:ARG:HD2	8:1P:872:GLN:HB2	1.97	0.46
10:1R:40:HIS:H	10:1R:44:GLN:HB2	1.80	0.46
10:1S:38:PRO:O	10:1S:39:MET:O	2.33	0.46
10:1S:394:ARG:HG3	13:Af:123:ARG:HD3	1.97	0.46
10:1S:432:THR:OG1	12:Ae:77:ARG:HD3	2.15	0.46
13:1b:349:THR:OG1	13:1b:350:GLY:N	2.49	0.46
12:1c:55:THR:HG23	12:2c:283:ALA:HA	1.97	0.46
13:1d:21:TRP:CZ3	13:1d:52:PHE:HB3	2.50	0.46
12:1e:274:THR:HG22	12:1e:282:ARG:HD3	1.98	0.46
12:1e:291:GLN:CD	13:Db:124:LYS:NZ	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1e:313:ALA:O	12:1e:349:VAL:HA	2.15	0.46
13:1f:177:VAL:HB	12:1g:331:LEU:HD22	1.97	0.46
12:1g:68:LEU:HB3	12:1g:96:GLY:HA2	1.98	0.46
13:1h:175:PRO:HG3	13:1h:390:ARG:NH2	2.31	0.46
13:1h:223:THR:HG23	13:1h:225:THR:HG23	1.98	0.46
14:2F:45:ARG:HD3	13:Db:244:PHE:HE1	1.81	0.46
14:2F:105:ALA:O	12:Ca:277:GLY:HA3	2.16	0.46
16:2I:10:UNK:O	16:2I:13:UNK:N	2.48	0.46
12:2a:50:TYR:CE2	12:2a:241:ARG:HD3	2.50	0.46
13:2f:212:ILE:O	13:2f:216:SER:OG	2.25	0.46
13:2h:9:ILE:HD13	13:2h:150:GLY:HA2	1.96	0.46
30:3F:613:ASN:HA	30:3F:616:VAL:HG22	1.98	0.46
31:3I:270:ARG:O	31:3I:273:GLN:HG3	2.16	0.46
32:3J:183:VAL:HG12	32:3J:184:LYS:HG3	1.97	0.46
34:3M:258:TYR:O	34:3M:262:THR:HG23	2.14	0.46
34:3N:456:LEU:HA	34:3N:459:ILE:HG22	1.97	0.46
34:3O:51:GLY:O	34:3O:55:GLN:HG2	2.15	0.46
34:3P:77:GLN:O	34:3P:81:GLU:HG3	2.15	0.46
34:3S:255:HIS:CE1	34:3S:259:MET:HE2	2.50	0.46
34:3W:388:ALA:O	34:3W:391:GLU:HG2	2.15	0.46
34:3X:49:PHE:HD1	34:3X:288:MET:SD	2.39	0.46
34:3Y:270:ILE:O	34:3Y:274:ILE:HG13	2.15	0.46
13:3b:15:GLN:NE2	54:3c:501:GTP:O6	2.48	0.46
13:3b:64:ARG:NH1	13:3b:129:CYS:HB3	2.31	0.46
12:3c:50:TYR:CE2	12:3c:241:ARG:HD3	2.51	0.46
13:3d:64:ARG:NH1	13:3d:129:CYS:HB3	2.31	0.46
34:4A:364:GLY:O	34:4A:367:GLY:N	2.48	0.46
35:4C:454:ILE:HD12	35:4C:485:LEU:HD22	1.97	0.46
35:4C:555:GLU:CG	35:4C:705:ARG:HH12	2.29	0.46
35:4C:708:VAL:HG13	35:4C:710:GLN:HG2	1.97	0.46
37:4E:749:GLN:HB3	37:4E:803:TYR:OH	2.15	0.46
37:4E:1187:THR:HB	37:4E:1299:ARG:HH11	1.80	0.46
37:4E:1680:LEU:CD2	37:4E:1698:VAL:HG22	2.45	0.46
37:4E:1681:ARG:HG3	37:4E:1697:SER:HB3	1.98	0.46
37:4F:583:GLU:O	43:5K:28:THR:O	2.34	0.46
37:4F:794:GLU:HG2	38:4K:70:LYS:NZ	2.30	0.46
37:4F:935:ARG:NH1	38:4N:49:ILE:HG12	2.28	0.46
37:4F:1781:LEU:HD12	37:4F:1782:GLU:H	1.79	0.46
37:4G:854:TYR:CZ	38:4L:82:TYR:CD2	3.04	0.46
37:4G:933:ARG:NH2	38:4I:71:GLU:HG2	2.21	0.46
37:4G:1308:TYR:HB2	37:4G:1312:ASP:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1319:ASP:CB	38:4L:29:LYS:CE	2.93	0.46
37:4H:527:VAL:HA	37:4H:531:LEU:HD23	1.96	0.46
37:4H:977:PRO:HG2	37:4H:1067:PRO:HB2	1.96	0.46
37:4H:1144:LEU:CD1	38:4M:29:LYS:HB2	2.45	0.46
37:4H:1288:THR:HG22	37:4H:1295:ARG:CD	2.45	0.46
37:4H:1323:ILE:CG2	37:4H:1324:THR:N	2.78	0.46
37:4H:1719:LEU:HB2	37:4H:1741:VAL:CG2	2.44	0.46
38:4I:36:VAL:O	38:4I:36:VAL:CG2	2.62	0.46
38:4I:48:PRO:CD	38:4I:49:ILE:HD12	2.45	0.46
38:4M:73:PRO:HB2	38:4M:75:ASN:H	1.80	0.46
38:4N:36:VAL:O	38:4N:37:GLY:C	2.55	0.46
40:4T:63:VAL:HG21	40:4T:413:ARG:O	2.15	0.46
40:4T:361:VAL:O	40:4T:365:VAL:HG22	2.16	0.46
40:4U:427:SER:HB2	40:4U:455:THR:HG22	1.97	0.46
40:4V:361:VAL:O	40:4V:365:VAL:HG22	2.16	0.46
40:4V:492:THR:HG23	40:4V:494:LEU:N	2.30	0.46
40:4V:517:PRO:HA	40:4V:520:GLU:HG3	1.98	0.46
12:4a:31:ASP:HB2	12:4a:32:PRO:HD2	1.97	0.46
13:4b:12:ALA:HB2	54:4b:501:GTP:C8	2.51	0.46
13:4b:223:THR:HG23	13:4b:225:THR:HG23	1.98	0.46
12:4e:313:ALA:O	12:4e:349:VAL:HA	2.15	0.46
12:4g:68:LEU:HB3	12:4g:96:GLY:HA2	1.96	0.46
13:4h:12:ALA:HB2	54:4h:501:GTP:C8	2.51	0.46
41:5A:169:LEU:O	41:5A:172:GLN:N	2.48	0.46
42:5H:85:CYS:C	43:5L:47:LYS:HD2	2.40	0.46
42:5H:91:TYR:CB	43:5L:41:ASP:CB	2.83	0.46
43:5I:17:SER:O	43:5I:18:ILE:CG1	2.59	0.46
43:5J:186:THR:O	43:5J:187:GLU:C	2.59	0.46
44:5U:77:ALA:O	44:5U:81:LYS:HG2	2.15	0.46
12:5e:87:PRO:HD3	12:6e:281:TYR:CG	2.50	0.46
13:5f:130:THR:OG1	13:5f:131:GLY:N	2.49	0.46
13:5f:191:THR:HA	13:5f:194:LEU:HG	1.98	0.46
12:5g:64:ILE:HD13	12:5g:120:VAL:HG22	1.97	0.46
12:5g:237:THR:OG1	12:5g:241:ARG:NH1	2.48	0.46
13:5h:21:TRP:CZ3	13:5h:52:PHE:HB3	2.50	0.46
13:5h:191:THR:HA	13:5h:194:LEU:HG	1.98	0.46
47:6A:829:LEU:HD23	47:6A:835:ALA:HB2	1.98	0.46
47:6A:1801:ARG:HA	47:6A:1897:THR:O	2.15	0.46
47:6B:1247:GLU:HG3	47:6B:1503:LYS:HZ1	1.81	0.46
47:6B:1585:ARG:O	47:6B:1589:GLU:HG2	2.15	0.46
47:6B:1801:ARG:HA	47:6B:1897:THR:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:6E:154:ASP:HB2	49:6G:225:ARG:HH12	1.80	0.46
48:6E:251:LEU:HA	48:6E:254:LEU:HD12	1.98	0.46
48:6F:891:ARG:HB3	48:6F:932:TYR:CE1	2.51	0.46
49:6I:234:LEU:HD13	49:6I:272:ALA:HB2	1.97	0.46
49:6I:263:ASP:HA	49:6I:266:LEU:HD12	1.96	0.46
49:6I:312:SER:O	49:6I:313:GLN:HB2	2.16	0.46
49:6J:148:LEU:HD23	49:6J:148:LEU:HA	1.70	0.46
49:6J:370:VAL:O	49:6J:374:LYS:HG2	2.15	0.46
50:6K:244:VAL:HG13	50:6K:269:LEU:HD23	1.97	0.46
51:6M:2034:PHE:CE2	51:6M:2036:LEU:HB2	2.51	0.46
51:6M:2194:SER:HA	51:6M:2197:TYR:CE2	2.51	0.46
51:6N:1249:SER:OG	51:6N:1250:GLY:N	2.49	0.46
51:6N:1798:VAL:N	51:6N:1899:ASP:OD1	2.37	0.46
51:6N:2248:LYS:N	51:6N:2252:TYR:OH	2.48	0.46
12:6a:310:TYR:O	12:6a:342:VAL:HG22	2.15	0.46
13:6b:227:LEU:O	13:6b:231:ILE:HG13	2.15	0.46
13:6f:191:THR:HA	13:6f:194:LEU:HG	1.98	0.46
13:6f:223:THR:HG23	13:6f:225:THR:HG23	1.98	0.46
12:6g:48:ASN:O	12:6g:62:ARG:NH2	2.44	0.46
12:6g:173:PRO:HA	12:6g:380:ARG:HD2	1.97	0.46
13:6h:15:GLN:NE2	54:6h:501:GTP:O6	2.48	0.46
13:6h:195:LEU:HD12	13:6h:266:HIS:HE1	1.81	0.46
13:6h:223:THR:HG23	13:6h:225:THR:HG23	1.98	0.46
12:7a:33:THR:HG23	12:7a:35:THR:HG22	1.97	0.46
13:7b:155:GLU:O	13:7b:159:VAL:HG23	2.16	0.46
12:7c:21:TRP:CZ3	12:7c:61:PRO:HB3	2.51	0.46
13:7f:195:LEU:HD12	13:7f:266:HIS:HE1	1.81	0.46
12:7g:102:ALA:HB2	12:7g:403:MET:SD	2.56	0.46
12:7g:178:THR:OG1	12:7g:181:GLU:HG3	2.16	0.46
12:7g:202:LEU:HD22	12:7g:300:MET:HE2	1.97	0.46
12:7g:236:ILE:HG12	12:7g:368:ILE:HD11	1.97	0.46
12:7g:317:PHE:HB3	12:7g:321:MET:CE	2.45	0.46
13:7h:155:GLU:O	13:7h:159:VAL:HG23	2.16	0.46
13:7h:191:THR:HA	13:7h:194:LEU:HG	1.98	0.46
12:8a:330:MET:SD	12:8a:349:VAL:HG11	2.56	0.46
13:8d:21:TRP:CZ3	13:8d:52:PHE:HB3	2.50	0.46
12:8g:159:TYR:HB3	12:8g:162:ARG:HG3	1.97	0.46
12:8g:245:GLN:HB3	12:8g:353:VAL:HG13	1.98	0.46
13:8h:212:ILE:O	13:8h:216:SER:OG	2.25	0.46
12:9a:313:ALA:O	12:9a:349:VAL:HA	2.15	0.46
12:9c:145:SER:HB2	12:9c:188:SER:OG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:9d:72:PRO:HG3	12:9e:1:MET:CE	2.40	0.46
13:9f:233:GLN:HG3	13:9f:368:LEU:HD13	1.96	0.46
13:9h:15:GLN:NE2	54:9h:501:GTP:O6	2.48	0.46
13:9h:155:GLU:O	13:9h:159:VAL:HG23	2.16	0.46
13:Ab:155:GLU:O	13:Ab:159:VAL:HG23	2.16	0.46
12:Ac:183:TYR:OH	12:Ac:388:MET:HB3	2.14	0.46
13:Ad:130:THR:OG1	13:Ad:131:GLY:N	2.49	0.46
12:Ae:16:ILE:HD11	12:Ae:229:ILE:HG21	1.98	0.46
12:Ae:67:ASP:O	12:Ae:92:PHE:HA	2.14	0.46
13:Af:21:TRP:CZ3	13:Af:52:PHE:HB3	2.50	0.46
13:Af:137:VAL:O	13:Af:168:GLY:HA2	2.14	0.46
13:Af:155:GLU:O	13:Af:159:VAL:HG23	2.16	0.46
13:Af:273:ALA:N	13:Af:375:VAL:O	2.48	0.46
13:Ah:223:THR:HG23	13:Ah:225:THR:HG23	1.98	0.46
13:Ah:227:LEU:O	13:Ah:231:ILE:HG13	2.15	0.46
12:Ba:99:ASN:HD21	13:Bb:352:LYS:NZ	2.13	0.46
13:Bb:64:ARG:NH1	13:Bb:129:CYS:HB3	2.31	0.46
13:Bb:195:LEU:HD12	13:Bb:266:HIS:HE1	1.81	0.46
13:Bb:227:LEU:O	13:Bb:231:ILE:HG13	2.15	0.46
12:Bc:99:ASN:HA	12:Bc:142:GLY:H	1.79	0.46
12:Bc:159:TYR:HB3	12:Bc:162:ARG:HG3	1.96	0.46
13:Bd:64:ARG:NH1	13:Bd:129:CYS:HB3	2.31	0.46
13:Bd:227:LEU:O	13:Bd:231:ILE:HG13	2.15	0.46
13:Bf:9:ILE:HD13	13:Bf:150:GLY:HA2	1.96	0.46
13:Bf:15:GLN:NE2	54:Bf:501:GTP:O6	2.48	0.46
13:Bf:195:LEU:HD12	13:Bf:266:HIS:HE1	1.81	0.46
12:Bg:398:TYR:HB3	12:Bg:403:MET:HE3	1.97	0.46
13:Bh:64:ARG:NH1	13:Bh:129:CYS:HB3	2.31	0.46
13:Bh:155:GLU:O	13:Bh:159:VAL:HG23	2.16	0.46
12:Ca:3:GLU:HB3	12:Ca:62:ARG:NH2	2.30	0.46
13:Cb:195:LEU:HD12	13:Cb:266:HIS:HE1	1.81	0.46
13:Ch:21:TRP:CZ3	13:Ch:52:PHE:HB3	2.50	0.46
13:Ch:195:LEU:HD12	13:Ch:266:HIS:HE1	1.81	0.46
13:Db:12:ALA:HB2	54:Db:501:GTP:C8	2.51	0.46
13:Dd:12:ALA:HB2	54:Dd:501:GTP:C8	2.51	0.46
13:Dd:200:VAL:HG23	13:Dd:256:GLN:HG2	1.96	0.46
13:Dd:223:THR:HG23	13:Dd:225:THR:HG23	1.98	0.46
13:Dh:191:THR:HA	13:Dh:194:LEU:HG	1.98	0.46
1:0A:306:ALA:HB3	1:0A:309:ASN:ND2	2.30	0.46
1:0A:398:THR:O	1:0A:402:ARG:HG3	2.15	0.46
1:0C:142:LYS:NZ	1:0C:178:GLU:HG3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0D:241:VAL:HG12	1:0D:281:HIS:HB3	1.98	0.46
1:0F:55:PRO:CB	1:0F:96:ASN:ND2	2.78	0.46
1:0G:131:VAL:CG1	1:0G:171:LEU:HD11	2.44	0.46
1:0G:354:SER:HB2	1:0G:399:LYS:HG3	1.97	0.46
1:0G:394:ASP:N	1:0G:394:ASP:OD2	2.43	0.46
1:0N:240:SER:HB3	1:0N:243:LEU:HG	1.98	0.46
1:0P:85:LEU:HA	1:0P:88:LEU:HD12	1.98	0.46
1:0P:358:TRP:HB2	1:0P:399:LYS:HD2	1.97	0.46
1:0Q:65:LEU:HD22	1:0Q:84:ILE:HD13	1.96	0.46
1:0Q:127:LEU:HD23	1:0Q:166:ALA:HB2	1.98	0.46
1:0R:143:GLU:HB2	1:0R:183:LEU:HD23	1.96	0.46
1:0R:306:ALA:HB3	1:0R:309:ASN:ND2	2.30	0.46
1:0S:218:VAL:HG12	1:0S:255:LYS:HB3	1.96	0.46
1:0T:349:GLU:O	1:0T:353:LYS:HG3	2.15	0.46
1:0V:169:VAL:O	1:0V:173:VAL:HG23	2.14	0.46
1:1B:30:ASN:O	1:1B:34:ILE:HG13	2.16	0.46
1:1B:42:ALA:HB2	1:1C:10:PHE:HZ	1.81	0.46
1:1B:358:TRP:HA	1:1B:399:LYS:HD2	1.97	0.46
1:1C:387:GLU:HG2	1:1C:400:CYS:SG	2.54	0.46
3:1H:991:ILE:CG1	47:6A:399:LYS:CB	2.93	0.46
3:1I:524:ARG:HH12	3:1I:573:ALA:HB1	1.81	0.46
3:1I:873:GLN:O	3:1I:877:HIS:HB3	2.15	0.46
4:1K:26:GLN:HE22	4:1K:85:PRO:CD	2.23	0.46
4:1K:194:LEU:HD22	4:1K:196:PHE:HE2	1.81	0.46
4:1K:227:PHE:CE2	4:1K:244:LEU:HD13	2.49	0.46
5:1L:417:ALA:O	5:1L:435:VAL:HA	2.16	0.46
5:1M:417:ALA:O	5:1M:435:VAL:HA	2.16	0.46
5:1M:549:MET:SD	13:1f:163:LYS:HE2	2.55	0.46
6:1N:619:SER:HB3	6:1N:625:MET:H	1.79	0.46
6:1N:1211:SER:HB2	6:1N:1220:GLN:HB2	1.97	0.46
7:1O:226:ALA:O	7:1O:230:LEU:HG	2.15	0.46
7:1O:1092:ARG:NH2	8:1P:848:GLU:OE1	2.49	0.46
7:1O:2219:THR:O	7:1O:2223:MET:HG2	2.16	0.46
13:1b:21:TRP:CZ3	13:1b:52:PHE:HB3	2.50	0.46
13:1d:175:PRO:HG3	13:1d:390:ARG:NH2	2.31	0.46
13:1d:223:THR:HG23	13:1d:225:THR:HG23	1.98	0.46
13:1d:349:THR:OG1	13:1d:350:GLY:N	2.49	0.46
13:1f:64:ARG:NH1	13:1f:129:CYS:HB3	2.31	0.46
13:1f:175:PRO:HG3	13:1f:390:ARG:NH2	2.31	0.46
13:1f:349:THR:OG1	13:1f:350:GLY:N	2.49	0.46
13:1h:349:THR:OG1	13:1h:350:GLY:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2U:183:GLU:OE2	24:2U:184:GLN:HG3	2.16	0.46
12:2a:31:ASP:HB2	12:2a:32:PRO:HD2	1.97	0.46
12:2a:232:VAL:HG22	12:2a:270:PHE:HB2	1.98	0.46
13:2b:12:ALA:HB2	54:2b:501:GTP:C8	2.51	0.46
13:2b:175:PRO:HG3	13:2b:390:ARG:NH2	2.31	0.46
13:2b:205:ASP:O	13:2b:209:ILE:HG13	2.15	0.46
12:2c:31:ASP:HB2	12:2c:32:PRO:HD2	1.97	0.46
12:2c:232:VAL:HG22	12:2c:270:PHE:HB2	1.97	0.46
12:2e:232:VAL:HG22	12:2e:270:PHE:HB2	1.98	0.46
12:2e:322:SER:O	12:2e:326:VAL:HG23	2.16	0.46
13:2f:12:ALA:HB2	54:2f:501:GTP:C8	2.51	0.46
13:2f:175:PRO:HG3	13:2f:390:ARG:NH2	2.31	0.46
13:2f:191:THR:HA	13:2f:194:LEU:HG	1.98	0.46
13:2h:12:ALA:HB2	54:2h:501:GTP:C8	2.51	0.46
13:2h:227:LEU:O	13:2h:231:ILE:HG13	2.15	0.46
30:3F:300:ARG:HD2	30:3F:303:GLU:CD	2.41	0.46
30:3F:638:LEU:HD12	30:3F:639:ALA:N	2.30	0.46
30:3G:755:ARG:HE	12:6a:407:GLU:HG3	1.80	0.46
31:3H:127:LEU:HD23	31:3H:193:LEU:HD11	1.96	0.46
31:3I:107:ARG:O	31:3I:111:THR:HG23	2.15	0.46
31:3I:169:ALA:HA	31:3I:172:LEU:HD12	1.98	0.46
31:3I:307:GLU:HB3	32:3K:388:MET:SD	2.56	0.46
32:3J:405:ARG:HH12	12:8a:262:ARG:HD2	1.79	0.46
33:3L:91:PHE:CE2	13:6d:159:VAL:HG21	2.50	0.46
33:3L:127:PRO:O	33:3L:131:GLU:HG3	2.16	0.46
34:3N:51:GLY:O	34:3N:55:GLN:HG2	2.15	0.46
34:3N:255:HIS:HD2	34:3N:474:TRP:CZ2	2.33	0.46
34:3N:419:LEU:HA	34:3N:419:LEU:HD12	1.68	0.46
34:3R:75:GLN:HB2	34:3R:419:LEU:CD1	2.46	0.46
34:3R:92:THR:HG21	34:3R:328:MET:HE1	1.97	0.46
34:3R:270:ILE:O	34:3R:274:ILE:HG13	2.15	0.46
34:3S:50:GLN:O	34:3S:54:GLU:HG2	2.15	0.46
34:3U:46:ARG:HG2	34:3U:445:TYR:HE2	1.80	0.46
34:3U:472:ASP:O	34:3U:475:MET:HG3	2.15	0.46
34:3W:233:ALA:HB2	34:3Y:328:MET:CE	2.43	0.46
34:3Z:49:PHE:HD1	34:3Z:288:MET:SD	2.39	0.46
12:3a:251:ARG:O	12:3a:255:VAL:HG13	2.15	0.46
13:3b:205:ASP:O	13:3b:209:ILE:HG13	2.15	0.46
13:3b:223:THR:HG23	13:3b:225:THR:HG23	1.98	0.46
12:3c:175:VAL:CG2	13:3d:333:ALA:HB2	2.45	0.46
13:3d:434:GLU:OE1	39:4S:168:HIS:ND1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3f:64:ARG:NH1	13:3f:129:CYS:HB3	2.31	0.46
12:3g:50:TYR:CE2	12:3g:241:ARG:HD3	2.51	0.46
12:3g:330:MET:HB3	12:3g:349:VAL:HG11	1.97	0.46
36:4D:197:LEU:O	36:4D:201:LEU:HG	2.16	0.46
36:4D:243:ARG:HH21	36:4D:262:THR:HB	1.80	0.46
37:4E:694:PRO:HD2	37:4E:788:LEU:HB3	1.96	0.46
37:4E:1112:ALA:HB3	42:5H:43:PHE:CD1	2.50	0.46
37:4E:1307:ALA:HA	37:4E:1313:VAL:CG2	2.38	0.46
37:4F:1166:LEU:O	37:4F:1167:ASP:O	2.33	0.46
37:4G:430:ASP:O	37:4G:433:LYS:HD2	2.16	0.46
37:4G:935:ARG:CZ	38:4L:49:ILE:CG1	2.90	0.46
37:4G:1085:MET:CE	37:4G:1350:ILE:HD12	2.45	0.46
37:4H:692:MET:HG3	38:4J:63:GLN:NE2	2.31	0.46
37:4H:922:SER:CB	37:4H:935:ARG:HG2	2.45	0.46
37:4H:1093:VAL:CB	38:4M:35:ALA:HB3	2.43	0.46
38:4I:67:ALA:HA	38:4I:70:LYS:CB	2.40	0.46
38:4I:78:GLU:O	38:4I:82:TYR:CD1	2.69	0.46
38:4J:36:VAL:O	38:4J:37:GLY:C	2.55	0.46
39:4Q:198:VAL:HA	39:4Q:201:HIS:CD2	2.51	0.46
40:4T:229:VAL:HG13	40:4T:263:PHE:CD1	2.50	0.46
40:4U:229:VAL:HG13	40:4U:263:PHE:CD1	2.50	0.46
40:4U:334:ALA:HB1	40:4U:545:PRO:HG3	1.98	0.46
40:4U:361:VAL:O	40:4U:365:VAL:HG22	2.16	0.46
40:4V:50:LEU:HD11	40:4V:73:LEU:HB3	1.97	0.46
40:4V:229:VAL:HG13	40:4V:263:PHE:CD1	2.50	0.46
40:4V:334:ALA:HB1	40:4V:545:PRO:HG3	1.98	0.46
40:4V:427:SER:HB2	40:4V:455:THR:HG22	1.97	0.46
40:4V:692:ARG:O	40:4V:693:THR:HG23	2.15	0.46
13:4b:200:VAL:HG23	13:4b:256:GLN:HG2	1.96	0.46
13:4f:12:ALA:HB2	54:4f:501:GTP:C8	2.51	0.46
13:4f:223:THR:HG23	13:4f:225:THR:HG23	1.98	0.46
12:4g:193:VAL:HG23	12:4g:262:ARG:HB2	1.98	0.46
13:4h:21:TRP:CZ3	13:4h:52:PHE:HB3	2.50	0.46
41:5B:167:PRO:CB	41:5B:172:GLN:H	2.28	0.46
42:5H:136:HIS:HA	43:5L:51:HIS:CB	2.45	0.46
43:5I:10:LEU:HD23	43:5I:10:LEU:HA	1.55	0.46
43:5I:32:LEU:HG	43:5I:36:TYR:HE2	1.81	0.46
43:5K:186:THR:O	43:5K:187:GLU:C	2.59	0.46
12:5a:322:SER:HB2	12:5a:324:LYS:HG3	1.98	0.46
13:5b:21:TRP:CZ3	13:5b:52:PHE:HB3	2.50	0.46
13:5b:191:THR:HA	13:5b:194:LEU:HG	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5b:223:THR:HG23	13:5b:225:THR:HG23	1.98	0.46
13:5d:21:TRP:CZ3	13:5d:52:PHE:HB3	2.50	0.46
13:5d:179:THR:HB	12:5e:246:LEU:HD21	1.97	0.46
13:5d:191:THR:HA	13:5d:194:LEU:HG	1.98	0.46
12:5g:68:LEU:HB3	12:5g:96:GLY:HA2	1.97	0.46
12:5g:311:LEU:HD23	12:5g:342:VAL:HG21	1.96	0.46
13:5h:15:GLN:NE2	54:5h:501:GTP:O6	2.48	0.46
13:5h:130:THR:OG1	13:5h:131:GLY:N	2.49	0.46
47:6A:180:ILE:HA	47:6A:183:GLN:HG3	1.96	0.46
47:6B:770:PHE:CD1	47:6B:771:PRO:HA	2.51	0.46
47:6B:829:LEU:HD23	47:6B:835:ALA:HB2	1.98	0.46
47:6B:1618:TYR:O	47:6B:1824:ARG:NH2	2.48	0.46
48:6E:858:TRP:NE1	48:6E:863:CYS:HB2	2.30	0.46
48:6E:891:ARG:HB3	48:6E:932:TYR:CE1	2.51	0.46
48:6F:858:TRP:NE1	48:6F:863:CYS:HB2	2.30	0.46
49:6G:312:SER:O	49:6G:313:GLN:HB2	2.16	0.46
49:6H:312:SER:O	49:6H:313:GLN:HB2	2.16	0.46
49:6J:234:LEU:HD13	49:6J:272:ALA:HB2	1.97	0.46
50:6K:402:VAL:HB	50:6K:423:ASN:HA	1.96	0.46
50:6L:74:LEU:HD11	50:6L:103:PRO:HB2	1.97	0.46
50:6L:411:THR:HG22	50:6L:413:GLY:H	1.79	0.46
51:6M:1249:SER:OG	51:6M:1250:GLY:N	2.49	0.46
51:6M:1422:ASP:OD1	51:6M:1423:ALA:N	2.49	0.46
12:6a:239:CYS:SG	12:6a:316:LEU:HD11	2.56	0.46
13:6b:12:ALA:HB2	54:6c:501:GTP:C8	2.51	0.46
13:6d:191:THR:HA	13:6d:194:LEU:HG	1.98	0.46
13:7b:195:LEU:HD12	13:7b:266:HIS:HE1	1.81	0.46
12:7c:179:VAL:O	12:7c:388:MET:HE1	2.15	0.46
13:7d:21:TRP:CZ3	13:7d:52:PHE:HB3	2.50	0.46
13:7d:195:LEU:HD12	13:7d:266:HIS:HE1	1.81	0.46
12:7e:396:HIS:HA	12:7e:399:THR:OG1	2.16	0.46
13:7f:130:THR:OG1	13:7f:131:GLY:N	2.49	0.46
13:7f:155:GLU:O	13:7f:159:VAL:HG23	2.16	0.46
13:7f:191:THR:HA	13:7f:194:LEU:HG	1.98	0.46
13:8b:407:TRP:CE3	12:8c:255:VAL:HG22	2.50	0.46
13:9b:233:GLN:HG3	13:9b:368:LEU:HD13	1.96	0.46
12:9c:202:LEU:HD22	12:9c:300:MET:HE2	1.98	0.46
13:9d:349:THR:OG1	13:9d:350:GLY:N	2.49	0.46
13:9f:130:THR:OG1	13:9f:131:GLY:N	2.49	0.46
13:9h:349:THR:OG1	13:9h:350:GLY:N	2.49	0.46
13:Ab:137:VAL:O	13:Ab:168:GLY:HA2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ab:349:THR:OG1	13:Ab:350:GLY:N	2.49	0.46
12:Ac:75:SER:HA	12:Ac:78:SER:OG	2.16	0.46
13:Ad:15:GLN:NE2	54:Ae:501:GTP:O6	2.48	0.46
13:Af:130:THR:OG1	13:Af:131:GLY:N	2.49	0.46
12:Ba:74:ASP:CB	12:Ba:77:ARG:HH21	2.29	0.46
12:Ba:86:ARG:HH22	12:Ca:278:SER:C	2.21	0.46
13:Bb:15:GLN:NE2	54:Bb:501:GTP:O6	2.48	0.46
12:Bc:112:LEU:O	12:Bc:116:VAL:HG23	2.16	0.46
12:Bc:173:PRO:HA	12:Bc:380:ARG:HD2	1.98	0.46
13:Bd:195:LEU:HD12	13:Bd:266:HIS:HE1	1.81	0.46
12:Be:285:THR:CG2	12:Be:287:PRO:HD2	2.37	0.46
13:Bf:155:GLU:O	13:Bf:159:VAL:HG23	2.16	0.46
13:Bf:176:GLN:HG3	12:Bg:331:LEU:HD21	1.98	0.46
12:Bg:112:LEU:O	12:Bg:116:VAL:HG23	2.16	0.46
13:Cb:130:THR:OG1	13:Cb:131:GLY:N	2.49	0.46
13:Cb:349:THR:OG1	13:Cb:350:GLY:N	2.49	0.46
12:Cc:145:SER:HB2	12:Cc:188:SER:OG	2.14	0.46
13:Cd:349:THR:OG1	13:Cd:350:GLY:N	2.49	0.46
13:Cf:349:THR:OG1	13:Cf:350:GLY:N	2.49	0.46
12:Cg:21:TRP:CZ3	12:Cg:61:PRO:HB3	2.50	0.46
12:Cg:31:ASP:HB2	12:Cg:32:PRO:HD2	1.97	0.46
13:Db:223:THR:HG23	13:Db:225:THR:HG23	1.98	0.46
12:Dc:21:TRP:CZ3	12:Dc:61:PRO:HB3	2.50	0.46
12:Dc:99:ASN:HA	12:Dc:142:GLY:H	1.80	0.46
12:Dc:202:LEU:HD22	12:Dc:300:MET:HE2	1.97	0.46
12:De:99:ASN:HB2	13:Df:258:ASN:HD21	1.81	0.46
13:Df:12:ALA:HB2	54:Df:501:GTP:C8	2.51	0.46
13:Dh:64:ARG:NH1	13:Dh:129:CYS:HB3	2.31	0.46
13:Dh:227:LEU:O	13:Dh:231:ILE:HG13	2.15	0.46
1:0W:198:THR:HG22	1:0W:200:GLU:H	1.80	0.46
1:0W:254:PRO:O	1:0W:258:THR:HG23	2.15	0.46
1:0K:273:THR:O	1:0K:277:GLU:HG2	2.15	0.46
1:0A:291:GLY:HA2	47:6A:323:LEU:CD2	2.45	0.46
1:0B:101:GLN:HG3	1:0B:141:VAL:HG12	1.97	0.46
1:0B:318:GLY:HA3	1:0B:359:THR:HG22	1.98	0.46
1:0C:355:ALA:O	1:0C:359:THR:HG23	2.14	0.46
1:0E:168:ALA:O	1:0E:172:LEU:HG	2.16	0.46
1:0F:182:SER:O	1:0F:185:ARG:HG2	2.16	0.46
1:0G:153:ALA:O	1:0G:197:HIS:NE2	2.49	0.46
1:0M:134:LEU:HD13	1:0M:171:LEU:HB3	1.97	0.46
1:0N:180:GLU:O	1:0N:183:LEU:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0N:259:CYS:HB2	1:0N:271:SER:HB3	1.97	0.46
1:0O:214:LEU:HD22	1:0O:229:VAL:HG12	1.96	0.46
1:0Q:227:ARG:HG2	1:0Q:267:VAL:CG1	2.46	0.46
1:0R:73:ASP:OD1	1:0R:113:HIS:HB3	2.15	0.46
1:0S:336:ALA:O	1:0S:340:LEU:HG	2.15	0.46
1:0X:335:LYS:NZ	31:3H:206:GLU:OE2	2.43	0.46
1:0Y:34:ILE:HD13	1:0Y:71:TYR:HB2	1.98	0.46
1:0Z:355:ALA:O	1:0Z:359:THR:HG23	2.14	0.46
1:1A:30:ASN:O	1:1A:34:ILE:HG13	2.15	0.46
1:1B:51:LEU:HD12	1:1C:51:LEU:HD11	1.98	0.46
1:1B:332:ILE:HD11	1:1B:363:ILE:CG2	2.42	0.46
1:1C:21:VAL:HB	1:1C:60:SER:OG	2.15	0.46
1:1C:368:PRO:HG3	1:1C:410:LYS:HD2	1.97	0.46
2:1D:120:GLN:HB3	2:1D:153:GLN:HE21	1.79	0.46
2:1D:208:ALA:O	2:1D:212:THR:HG23	2.15	0.46
2:1D:221:SER:OG	2:1D:264:SER:HA	2.16	0.46
2:1D:236:VAL:HG13	2:1D:253:ALA:HB1	1.97	0.46
2:1E:208:ALA:O	2:1E:212:THR:HG23	2.15	0.46
2:1E:447:THR:C	2:1E:449:VAL:H	2.23	0.46
2:1F:16:GLY:HA2	2:1F:20:GLN:CD	2.40	0.46
3:1H:508:LEU:HG	3:1H:527:CYS:SG	2.55	0.46
3:1H:981:LYS:HD3	3:1H:1020:LEU:HD13	1.97	0.46
3:1H:1004:ALA:C	47:6A:406:ARG:HG3	2.41	0.46
3:1H:1004:ALA:O	47:6A:406:ARG:HG3	2.15	0.46
4:1J:63:ILE:HG12	4:1J:179:GLU:OE1	2.16	0.46
4:1J:194:LEU:HD22	4:1J:196:PHE:HE2	1.81	0.46
4:1J:315:ILE:HG22	4:1J:318:ASN:HA	1.98	0.46
5:1L:440:LYS:HB3	12:1c:262:ARG:NH1	2.30	0.46
10:1R:39:MET:O	10:1R:135:THR:HG23	2.15	0.46
10:1R:278:THR:HG22	10:1R:280:ALA:H	1.80	0.46
12:1a:287:PRO:HD3	12:1a:325:GLU:OE1	2.16	0.46
12:1a:330:MET:O	12:1a:333:VAL:HG12	2.14	0.46
13:1b:64:ARG:NH1	13:1b:129:CYS:HB3	2.31	0.46
13:1b:175:PRO:HG3	13:1b:390:ARG:NH2	2.31	0.46
12:1c:68:LEU:HB3	12:1c:96:GLY:HA2	1.98	0.46
13:1d:15:GLN:HB3	13:1d:228:ASN:ND2	2.31	0.46
13:1h:15:GLN:HB3	13:1h:228:ASN:ND2	2.31	0.46
13:1h:21:TRP:CZ3	13:1h:52:PHE:HB3	2.50	0.46
13:1h:30:ILE:HA	13:1h:36:MET:HB3	1.98	0.46
13:1h:64:ARG:NH1	13:1h:129:CYS:HB3	2.31	0.46
24:2U:168:ILE:HG23	24:2U:171:LYS:HE3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2a:161:ASP:O	12:2a:251:ARG:NH2	2.49	0.46
12:2g:68:LEU:HB3	12:2g:96:GLY:HA2	1.97	0.46
12:2g:99:ASN:HA	12:2g:142:GLY:H	1.79	0.46
13:2h:175:PRO:HG3	13:2h:390:ARG:NH2	2.31	0.46
32:3J:103:MET:HE2	12:Ac:424:GLN:HE21	1.81	0.46
33:3L:20:ILE:HG23	33:3L:21:TYR:H	1.80	0.46
33:3L:27:GLU:HA	33:3L:49:SER:O	2.15	0.46
33:3L:45:VAL:HG23	33:3L:65:ALA:O	2.16	0.46
33:3L:121:LEU:HD23	33:3L:138:VAL:HG21	1.97	0.46
34:3M:481:LEU:HA	34:3M:484:GLU:HG3	1.96	0.46
34:3N:384:ASN:HA	34:3N:387:VAL:HG22	1.97	0.46
34:3O:407:MET:O	34:3O:411:MET:HG2	2.15	0.46
34:3P:500:TYR:CE1	34:3P:504:LEU:HD21	2.50	0.46
34:3Q:311:ALA:O	34:3Q:315:GLN:HG2	2.16	0.46
34:3R:63:SER:OG	34:4B:214:ALA:HB2	2.16	0.46
34:3R:254:MET:CG	34:3R:481:LEU:HD11	2.45	0.46
34:3R:333:ARG:O	34:3R:337:GLN:HG2	2.15	0.46
34:3S:38:HIS:CE1	34:3S:452:HIS:CE1	3.03	0.46
34:3S:365:GLU:HA	34:3S:365:GLU:OE2	2.16	0.46
34:3T:81:GLU:HG2	34:3T:85:TYR:CZ	2.51	0.46
34:3V:364:GLY:O	34:3V:367:GLY:N	2.48	0.46
34:3Y:276:GLU:HG3	34:3Y:459:ILE:CD1	2.45	0.46
13:3b:96:LYS:HB3	12:3c:129:CYS:SG	2.56	0.46
13:3b:185:TYR:OH	13:3b:398:MET:HB3	2.16	0.46
12:3c:330:MET:HB3	12:3c:349:VAL:HG11	1.96	0.46
13:3d:185:TYR:OH	13:3d:398:MET:HB3	2.16	0.46
13:3f:205:ASP:O	13:3f:209:ILE:HG13	2.15	0.46
13:3f:223:THR:HG23	13:3f:225:THR:HG23	1.98	0.46
13:3f:349:THR:OG1	13:3f:350:GLY:N	2.49	0.46
12:3g:135:VAL:HG22	12:3g:137:HIS:HD2	1.81	0.46
13:3h:64:ARG:NH1	13:3h:129:CYS:HB3	2.31	0.46
13:3h:223:THR:HG23	13:3h:225:THR:HG23	1.98	0.46
35:4C:826:ARG:HG2	35:4C:840:GLU:CD	2.40	0.46
36:4D:170:HIS:HB3	36:4D:245:HIS:ND1	2.31	0.46
37:4E:750:LEU:HD11	37:4E:1626:VAL:HG21	1.97	0.46
37:4G:592:GLU:OE2	37:4G:593:ALA:N	2.48	0.46
37:4H:664:TYR:OH	38:4J:50:ARG:NH2	2.48	0.46
37:4H:967:SER:OG	37:4H:1076:THR:O	2.18	0.46
39:4R:198:VAL:HA	39:4R:201:HIS:CD2	2.51	0.46
39:4S:198:VAL:HA	39:4S:201:HIS:CD2	2.51	0.46
40:4T:334:ALA:HB1	40:4T:545:PRO:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:4T:427:SER:HB2	40:4T:455:THR:HG22	1.97	0.46
40:4T:692:ARG:O	40:4T:693:THR:HG23	2.15	0.46
40:4U:63:VAL:HG21	40:4U:413:ARG:O	2.15	0.46
40:4U:394:ASP:HA	40:4U:660:ARG:HH12	1.81	0.46
12:4c:27:GLU:OE2	12:4c:318:ARG:NH2	2.37	0.46
12:4e:113:ILE:HA	12:4e:116:VAL:CG1	2.41	0.46
12:4e:257:LEU:HD23	12:4e:312:THR:HG22	1.98	0.46
13:4h:155:GLU:O	13:4h:159:VAL:HG23	2.16	0.46
13:4h:175:PRO:HG3	13:4h:390:ARG:NH2	2.31	0.46
42:5H:67:GLY:O	42:5H:71:THR:HG23	2.15	0.46
42:5H:74:TRP:HH2	42:5H:129:MET:HG2	1.79	0.46
42:5H:129:MET:O	42:5H:134:LEU:CA	2.64	0.46
42:5H:137:TYR:CE2	43:5L:45:ASN:CB	2.95	0.46
43:5J:24:LYS:HD3	43:5J:24:LYS:H	1.81	0.46
12:5a:3:GLU:HB3	12:5a:62:ARG:HH21	1.80	0.46
12:5a:106:TYR:C	12:5a:107:THR:HG1	2.23	0.46
12:5a:139:LEU:O	12:5a:171:PRO:HD3	2.15	0.46
12:5a:395:LEU:O	12:5a:399:THR:HG23	2.16	0.46
13:5b:155:GLU:O	13:5b:159:VAL:HG23	2.16	0.46
13:5b:195:LEU:HD12	13:5b:266:HIS:HE1	1.81	0.46
12:5c:316:LEU:HB2	12:5c:366:THR:HG23	1.98	0.46
13:5d:12:ALA:HB2	54:5d:501:GTP:C8	2.51	0.46
12:5e:59:TYR:C	12:5e:60:VAL:HG13	2.41	0.46
13:5f:21:TRP:CZ3	13:5f:52:PHE:HB3	2.50	0.46
13:5f:155:GLU:O	13:5f:159:VAL:HG23	2.16	0.46
13:5h:12:ALA:HB2	54:5h:501:GTP:C8	2.51	0.46
13:5h:195:LEU:HD12	13:5h:266:HIS:HE1	1.81	0.46
48:6E:650:GLU:HG3	48:6E:652:ALA:H	1.81	0.46
49:6G:263:ASP:HA	49:6G:266:LEU:HD12	1.96	0.46
49:6G:401:VAL:HG23	49:6G:411:VAL:HG11	1.97	0.46
49:6H:203:ASN:CB	49:6H:258:ASN:HA	2.29	0.46
50:6K:179:GLU:HB3	50:6K:180:PRO:HD3	1.96	0.46
50:6K:196:LEU:HD12	50:6K:196:LEU:H	1.79	0.46
51:6M:1798:VAL:N	51:6M:1899:ASP:OD1	2.37	0.46
51:6N:1422:ASP:OD1	51:6N:1423:ALA:N	2.49	0.46
51:6N:2034:PHE:CE2	51:6N:2036:LEU:HB2	2.51	0.46
51:6N:2046:LEU:HD21	51:6N:2048:ILE:HD11	1.97	0.46
51:6N:2194:SER:HA	51:6N:2197:TYR:CE2	2.51	0.46
13:6b:191:THR:HA	13:6b:194:LEU:HG	1.98	0.46
13:6b:223:THR:HG23	13:6b:225:THR:HG23	1.98	0.46
12:6c:116:VAL:O	12:6c:120:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:6d:223:THR:HG23	13:6d:225:THR:HG23	1.98	0.46
13:6d:227:LEU:O	13:6d:231:ILE:HG13	2.15	0.46
13:6f:175:PRO:HG3	13:6f:390:ARG:NH2	2.31	0.46
13:6h:191:THR:HA	13:6h:194:LEU:HG	1.98	0.46
12:7a:113:ILE:HD11	12:7a:154:LYS:HG3	1.97	0.46
13:7b:12:ALA:HB2	54:7b:501:GTP:C8	2.51	0.46
12:7c:311:LEU:HD23	12:7c:342:VAL:HG21	1.97	0.46
13:7d:155:GLU:O	13:7d:159:VAL:HG23	2.16	0.46
13:7d:223:THR:HG23	13:7d:225:THR:HG23	1.98	0.46
13:7d:349:THR:OG1	13:7d:350:GLY:N	2.49	0.46
12:7g:3:GLU:OE1	12:7g:3:GLU:N	2.49	0.46
12:7g:48:ASN:O	12:7g:62:ARG:NH2	2.42	0.46
12:7g:68:LEU:HB3	12:7g:96:GLY:HA2	1.98	0.46
12:7g:330:MET:HB3	12:7g:349:VAL:HG11	1.96	0.46
12:8a:179:VAL:HA	13:8b:349:THR:OG1	2.15	0.46
13:8b:185:TYR:OH	13:8b:398:MET:HB3	2.16	0.46
13:8b:223:THR:HG23	13:8b:225:THR:HG23	1.98	0.46
12:8c:99:ASN:HA	12:8c:142:GLY:H	1.80	0.46
13:8d:130:THR:OG1	13:8d:131:GLY:N	2.49	0.46
12:8e:174:LYS:NZ	13:8f:333:ALA:HB2	2.31	0.46
13:8h:175:PRO:HG3	13:8h:390:ARG:NH2	2.31	0.46
12:9a:330:MET:SD	12:9a:349:VAL:HG11	2.55	0.46
13:9d:155:GLU:O	13:9d:159:VAL:HG23	2.16	0.46
13:9d:176:GLN:O	12:9e:331:LEU:HD13	2.15	0.46
13:9f:349:THR:OG1	13:9f:350:GLY:N	2.49	0.46
12:9g:311:LEU:HD23	12:9g:342:VAL:HG21	1.97	0.46
13:Ab:21:TRP:CZ3	13:Ab:52:PHE:HB3	2.50	0.46
13:Ab:64:ARG:NH1	13:Ab:129:CYS:HB3	2.31	0.46
13:Ad:30:ILE:HA	13:Ad:36:MET:HB3	1.98	0.46
13:Ad:195:LEU:HD12	13:Ad:266:HIS:HE1	1.81	0.46
13:Ad:223:THR:HG23	13:Ad:225:THR:HG23	1.98	0.46
13:Af:12:ALA:HB2	54:Af:501:GTP:C8	2.51	0.46
13:Af:15:GLN:NE2	54:Af:501:GTP:O6	2.48	0.46
13:Af:30:ILE:HA	13:Af:36:MET:HB3	1.98	0.46
13:Af:233:GLN:HG3	13:Af:368:LEU:HD13	1.96	0.46
13:Af:349:THR:OG1	13:Af:350:GLY:N	2.49	0.46
12:Ag:52:ASN:HD22	12:Ag:86:ARG:NH2	2.13	0.46
13:Ah:155:GLU:O	13:Ah:159:VAL:HG23	2.16	0.46
13:Bb:9:ILE:HD13	13:Bb:150:GLY:HA2	1.96	0.46
12:Bc:232:VAL:HG22	12:Bc:270:PHE:HB2	1.98	0.46
12:Bc:236:ILE:HG12	12:Bc:368:ILE:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bf:64:ARG:NH1	13:Bf:129:CYS:HB3	2.31	0.46
13:Bf:227:LEU:O	13:Bf:231:ILE:HG13	2.15	0.46
12:Bg:116:VAL:O	12:Bg:120:VAL:HG23	2.16	0.46
13:Bh:233:GLN:HG3	13:Bh:368:LEU:HD13	1.96	0.46
12:Ca:98:GLY:HA2	13:Cb:254:GLU:HG3	1.97	0.46
12:Ca:318:ARG:HB3	12:Ca:357:PRO:HA	1.98	0.46
12:Cc:364:SER:OG	12:Cc:365:ALA:N	2.48	0.46
13:Cf:21:TRP:CZ3	13:Cf:52:PHE:HB3	2.50	0.46
13:Db:130:THR:OG1	13:Db:131:GLY:N	2.49	0.46
13:Db:175:PRO:HG3	13:Db:390:ARG:NH2	2.31	0.46
13:Dd:64:ARG:NH1	13:Dd:129:CYS:HB3	2.31	0.46
13:Dd:191:THR:HA	13:Dd:194:LEU:HG	1.98	0.46
13:Df:64:ARG:NH1	13:Df:129:CYS:HB3	2.31	0.46
13:Df:191:THR:HA	13:Df:194:LEU:HG	1.98	0.46
12:Dg:99:ASN:HA	12:Dg:142:GLY:H	1.80	0.46
13:Dh:12:ALA:HB2	54:Dh:501:GTP:C8	2.51	0.46
1:0W:367:THR:HB	1:0W:370:HIS:HD2	1.73	0.46
1:0B:70:ASN:HA	1:0B:113:HIS:NE2	2.31	0.46
1:0B:172:LEU:HD22	1:0B:187:ALA:HA	1.97	0.46
1:0D:219:ILE:HG12	1:0D:255:LYS:HG2	1.96	0.46
1:0E:169:VAL:O	1:0E:173:VAL:HG23	2.15	0.46
1:0L:240:SER:HB3	1:0L:243:LEU:HG	1.97	0.46
1:0L:407:VAL:O	1:0L:411:LEU:HB2	2.16	0.46
1:0N:28:ALA:O	1:0N:34:ILE:HD11	2.15	0.46
1:0O:413:HIS:CD2	1:0O:416:ALA:HB3	2.47	0.46
1:0P:227:ARG:HG3	1:0P:267:VAL:HG22	1.96	0.46
1:0P:230:CYS:HB2	1:0P:270:HIS:HB3	1.98	0.46
1:0V:231:CYS:O	1:0V:235:GLN:HG2	2.16	0.46
1:1B:127:LEU:CD1	1:1B:163:VAL:HG12	2.46	0.46
2:1D:426:LEU:O	2:1D:427:GLU:C	2.58	0.46
2:1D:447:THR:C	2:1D:449:VAL:H	2.23	0.46
2:1E:25:PHE:CE1	2:1G:56:LEU:HA	2.50	0.46
2:1F:193:VAL:HG22	2:1F:232:ALA:HB2	1.98	0.46
3:1H:1004:ALA:HA	47:6A:406:ARG:NH2	2.31	0.46
3:1I:284:PRO:HA	3:1I:493:ASP:OD1	2.15	0.46
4:1K:63:ILE:HG12	4:1K:179:GLU:OE1	2.16	0.46
4:1K:315:ILE:HG22	4:1K:318:ASN:HA	1.98	0.46
5:1M:552:HIS:CE1	5:1M:556:TYR:CE1	3.04	0.46
6:1N:383:ASP:O	6:1N:387:VAL:HG23	2.16	0.46
6:1N:701:LEU:O	6:1N:701:LEU:HG	2.16	0.46
7:1O:837:ASN:OD1	7:1O:867:GLN:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1O:2302:LEU:HB2	7:1O:2363:ALA:HB2	1.96	0.46
10:1R:344:SER:HB3	10:1R:348:ARG:NH1	2.31	0.46
10:1S:46:ILE:HD12	10:1S:46:ILE:H	1.81	0.46
12:1a:222:PHE:CZ	13:1b:248:LEU:HG	2.50	0.46
12:1a:316:LEU:HB2	12:1a:366:THR:HG23	1.98	0.46
12:1a:328:GLU:O	12:1a:331:LEU:HG	2.15	0.46
13:1b:175:PRO:O	13:1b:394:LYS:NZ	2.46	0.46
12:1c:31:ASP:HB2	12:1c:32:PRO:HD2	1.97	0.46
12:1e:316:LEU:HB2	12:1e:366:THR:HG23	1.98	0.46
12:1e:396:HIS:CD2	13:1f:263:PRO:HD3	2.51	0.46
13:1f:21:TRP:CZ3	13:1f:52:PHE:HB3	2.50	0.46
12:1g:232:VAL:HG22	12:1g:270:PHE:HB2	1.98	0.46
14:2G:113:VAL:HG21	13:Bf:245:ASP:OD2	2.15	0.46
17:2J:67:UNK:O	17:2J:69:UNK:N	2.49	0.46
24:2T:176:LYS:O	24:2T:180:ARG:NH1	2.49	0.46
24:2U:136:PRO:C	24:2U:138:ASP:H	2.23	0.46
24:2U:205:GLN:HG3	12:Cc:194:GLU:HA	1.98	0.46
24:2V:124:ALA:O	24:2V:128:VAL:HG22	2.16	0.46
13:2b:155:GLU:O	13:2b:159:VAL:HG23	2.16	0.46
13:2b:191:THR:HA	13:2b:194:LEU:HG	1.98	0.46
12:2c:50:TYR:CE2	12:2c:241:ARG:HD3	2.51	0.46
13:2d:64:ARG:NH1	13:2d:129:CYS:HB3	2.31	0.46
13:2d:175:PRO:HG3	13:2d:390:ARG:NH2	2.31	0.46
13:2f:224:TYR:CD2	12:2g:245:GLN:HG2	2.50	0.46
30:3F:372:GLU:HG2	13:8f:390:ARG:HG2	1.98	0.46
30:3G:704:GLN:O	30:3G:708:LEU:HG	2.15	0.46
33:3L:41:PHE:HA	33:3L:44:PHE:CE1	2.51	0.46
34:3M:61:HIS:HE1	34:3M:434:ASP:OD1	1.97	0.46
34:3O:311:ALA:O	34:3O:315:GLN:HG2	2.16	0.46
34:3U:270:ILE:HG22	34:3U:273:ARG:NH2	2.30	0.46
34:3W:103:LEU:HD22	34:3W:342:GLN:HG3	1.98	0.46
34:3Z:330:GLU:OE1	34:3Z:403:ARG:NH1	2.48	0.46
13:3b:349:THR:OG1	13:3b:350:GLY:N	2.49	0.46
12:3c:317:PHE:HB3	12:3c:321:MET:CE	2.45	0.46
13:3f:185:TYR:OH	13:3f:398:MET:HB3	2.16	0.46
13:3h:349:THR:OG1	13:3h:350:GLY:N	2.49	0.46
34:4B:103:LEU:HD22	34:4B:342:GLN:HG3	1.98	0.46
35:4C:1084:ARG:HG2	37:4E:717:MET:HE3	1.97	0.46
36:4D:87:LEU:HD21	36:4D:168:CYS:HB3	1.98	0.46
36:4D:104:LEU:HD21	36:4D:117:LEU:CD2	2.46	0.46
36:4D:225:GLY:O	36:4D:229:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:576:ALA:HB3	43:5L:52:LEU:CD2	2.38	0.46
37:4E:582:GLN:HG3	43:5L:39:LEU:HB2	1.98	0.46
37:4E:586:PHE:CD2	43:5L:10:LEU:CG	2.99	0.46
37:4F:1074:GLN:HA	38:4N:41:LYS:HG2	1.97	0.46
37:4F:1085:MET:HE3	37:4F:1085:MET:HB2	1.68	0.46
37:4F:1138:VAL:CG2	38:4N:33:LYS:CG	2.93	0.46
37:4G:864:VAL:HG21	38:4L:85:LEU:CD2	2.46	0.46
37:4G:1180:ALA:HA	37:4G:1201:SER:HB3	1.96	0.46
37:4G:1331:TRP:NE1	37:4G:1343:GLY:HA3	2.30	0.46
37:4G:1334:GLU:CA	38:4L:28:VAL:N	2.78	0.46
37:4G:1335:MET:CA	38:4L:28:VAL:C	2.87	0.46
37:4H:584:ALA:HA	43:5J:29:GLY:HA3	1.97	0.46
37:4H:1073:LEU:HD11	37:4H:1379:ALA:HB3	1.98	0.46
37:4H:1308:TYR:HB2	37:4H:1312:ASP:HB2	1.97	0.46
37:4H:1394:PRO:HA	37:4H:1449:ASP:OD2	2.15	0.46
38:4J:54:GLU:HA	38:4J:58:VAL:CG2	2.43	0.46
38:4J:70:LYS:HB3	38:4J:71:GLU:CD	2.41	0.46
38:4K:70:LYS:HB3	38:4K:71:GLU:CD	2.41	0.46
39:4R:41:GLN:NE2	44:5T:113:MET:O	2.48	0.46
39:4S:37:ILE:HG13	44:5U:116:LEU:CD1	2.46	0.46
40:4T:394:ASP:HA	40:4T:660:ARG:HH12	1.81	0.46
40:4T:440:CYS:HA	40:4T:443:VAL:HG22	1.98	0.46
40:4U:440:CYS:HA	40:4U:443:VAL:HG22	1.98	0.46
40:4U:692:ARG:O	40:4U:693:THR:HG23	2.15	0.46
40:4V:487:LEU:HG	40:4V:522:LEU:HD13	1.98	0.46
13:4d:175:PRO:HG3	13:4d:390:ARG:NH2	2.31	0.46
13:4f:175:PRO:HG3	13:4f:390:ARG:NH2	2.31	0.46
12:4g:311:LEU:HD23	12:4g:342:VAL:HG21	1.97	0.46
13:4h:227:LEU:O	13:4h:231:ILE:HG13	2.15	0.46
43:5I:186:THR:O	43:5I:187:GLU:C	2.59	0.46
43:5K:32:LEU:HG	43:5K:36:TYR:HE2	1.81	0.46
44:5R:99:ASP:OD2	44:5R:100:GLY:N	2.49	0.46
12:5a:176:SER:OG	13:5b:349:THR:HB	2.16	0.46
13:5d:130:THR:OG1	13:5d:131:GLY:N	2.49	0.46
13:5d:175:PRO:HG3	13:5d:390:ARG:NH2	2.31	0.46
12:5e:23:VAL:HA	12:5e:26:ASP:OD2	2.16	0.46
47:6A:770:PHE:CD1	47:6A:771:PRO:HA	2.51	0.46
47:6A:1779:ARG:CZ	51:6M:1595:MET:HE1	2.46	0.46
47:6B:1631:ALA:HB2	47:6B:1920:TRP:HZ2	1.80	0.46
48:6E:961:THR:OG1	48:6E:962:PRO:HD3	2.16	0.46
48:6F:650:GLU:HG3	48:6F:652:ALA:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6H:248:ASN:HD21	49:6J:256:ALA:HB3	1.81	0.46
49:6H:401:VAL:HG23	49:6H:411:VAL:HG11	1.97	0.46
49:6I:344:ASP:HB3	49:6I:347:PRO:CG	2.45	0.46
49:6I:370:VAL:O	49:6I:374:LYS:HG2	2.15	0.46
49:6J:56:ILE:HG22	49:6J:62:PRO:HG3	1.98	0.46
49:6J:263:ASP:HA	49:6J:266:LEU:HD12	1.96	0.46
50:6K:74:LEU:HD11	50:6K:103:PRO:HB2	1.97	0.46
50:6K:241:GLU:HA	50:6K:241:GLU:OE2	2.16	0.46
50:6L:241:GLU:OE2	50:6L:270:ARG:NH2	2.47	0.46
51:6M:1593:LEU:HD21	51:6M:1606:LEU:CD1	2.45	0.46
12:6a:245:GLN:HB3	12:6a:353:VAL:HG23	1.98	0.46
13:6b:185:TYR:OH	13:6b:398:MET:HB3	2.16	0.46
12:6e:128:ASP:OD2	12:6e:128:ASP:N	2.49	0.46
12:6e:211:CYS:SG	12:6e:220:PRO:HB3	2.55	0.46
13:6f:130:THR:OG1	13:6f:131:GLY:N	2.49	0.46
12:6g:21:TRP:CZ3	12:6g:61:PRO:HB3	2.51	0.46
12:6g:317:PHE:HB3	12:6g:321:MET:CE	2.45	0.46
13:6h:12:ALA:HB2	54:6h:501:GTP:C8	2.51	0.46
13:6h:15:GLN:HB3	13:6h:228:ASN:ND2	2.31	0.46
13:6h:227:LEU:O	13:6h:231:ILE:HG13	2.15	0.46
13:7b:185:TYR:OH	13:7b:398:MET:HB3	2.16	0.46
12:7c:170:VAL:HG11	12:7c:377:MET:HE2	1.96	0.46
12:7e:282:ARG:HH22	12:7e:288:GLU:HG3	1.74	0.46
13:7f:185:TYR:OH	13:7f:398:MET:HB3	2.16	0.46
13:7f:349:THR:OG1	13:7f:350:GLY:N	2.49	0.46
12:7g:21:TRP:CZ3	12:7g:61:PRO:HB3	2.51	0.46
13:7h:64:ARG:NH1	13:7h:129:CYS:HB3	2.31	0.46
13:7h:185:TYR:OH	13:7h:398:MET:HB3	2.16	0.46
12:8a:201:VAL:HG23	12:8a:301:CYS:HB2	1.96	0.46
12:8a:271:THR:OG1	12:8a:272:PRO:HA	2.16	0.46
13:8b:130:THR:OG1	13:8b:131:GLY:N	2.49	0.46
13:8b:273:ALA:N	13:8b:375:VAL:O	2.48	0.46
12:8c:21:TRP:CZ3	12:8c:61:PRO:HB3	2.50	0.46
12:8c:145:SER:OG	12:8c:188:SER:HB2	2.16	0.46
13:8d:175:PRO:HG3	13:8d:390:ARG:NH2	2.31	0.46
13:8d:185:TYR:OH	13:8d:398:MET:HB3	2.16	0.46
13:8d:223:THR:HG23	13:8d:225:THR:HG23	1.98	0.46
12:8e:127:CYS:SG	12:8e:128:ASP:N	2.88	0.46
12:8e:232:VAL:HG22	12:8e:270:PHE:HB2	1.98	0.46
13:8f:185:TYR:OH	13:8f:398:MET:HB3	2.16	0.46
12:8g:202:LEU:HD22	12:8g:300:MET:HE2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:8h:185:TYR:OH	13:8h:398:MET:HB3	2.16	0.46
13:9b:9:ILE:HD13	13:9b:150:GLY:HA2	1.96	0.46
13:9b:349:THR:OG1	13:9b:350:GLY:N	2.49	0.46
12:9c:229:ILE:HA	12:9c:300:MET:HE1	1.97	0.46
13:9d:12:ALA:HB2	54:9e:501:GTP:C8	2.51	0.46
13:9d:21:TRP:CZ3	13:9d:52:PHE:HB3	2.50	0.46
13:9f:155:GLU:O	13:9f:159:VAL:HG23	2.16	0.46
12:9g:130:LEU:HB3	12:9g:162:ARG:HD3	1.98	0.46
13:9h:12:ALA:HB2	54:9h:501:GTP:C8	2.51	0.46
13:9h:223:THR:HG23	13:9h:225:THR:HG23	1.98	0.46
12:Aa:2:ARG:O	12:Aa:49:VAL:HG13	2.15	0.46
13:Ab:12:ALA:HB2	54:Ab:501:GTP:C8	2.51	0.46
13:Ab:30:ILE:HA	13:Ab:36:MET:HB3	1.98	0.46
12:Ac:341:PHE:HB3	12:Ac:348:ASN:ND2	2.30	0.46
13:Ad:12:ALA:HB2	54:Ae:501:GTP:C8	2.51	0.46
13:Ad:62:VAL:HG21	13:Bd:283:HIS:O	2.15	0.46
13:Ad:210:TYR:CE1	12:Ae:324:LYS:HB2	2.51	0.46
13:Ad:349:THR:OG1	13:Ad:350:GLY:N	2.49	0.46
13:Af:223:THR:HG23	13:Af:225:THR:HG23	1.98	0.46
13:Af:248:LEU:HD23	13:Af:248:LEU:HA	1.79	0.46
12:Ag:99:ASN:HA	12:Ag:142:GLY:H	1.81	0.46
13:Ah:12:ALA:HB2	54:Ah:501:GTP:C8	2.51	0.46
13:Ah:30:ILE:HA	13:Ah:36:MET:HB3	1.98	0.46
12:Ba:406:MET:HE3	12:Ba:406:MET:HB3	1.89	0.46
12:Bc:237:THR:OG1	12:Bc:241:ARG:NH1	2.49	0.46
13:Bd:9:ILE:HD13	13:Bd:150:GLY:HA2	1.96	0.46
12:Be:208:TYR:CE1	12:Be:225:LEU:HD11	2.49	0.46
12:Be:277:GLY:O	12:Be:281:TYR:CD2	2.69	0.46
13:Bh:223:THR:HG23	13:Bh:225:THR:HG23	1.98	0.46
12:Ca:50:TYR:CE2	12:Ca:241:ARG:HD3	2.49	0.46
12:Ca:335:ASN:O	12:Ca:338:SER:OG	2.33	0.46
13:Cb:64:ARG:NH1	13:Cb:129:CYS:HB3	2.31	0.46
13:Cb:212:ILE:O	13:Cb:216:SER:OG	2.25	0.46
13:Cd:130:THR:OG1	13:Cd:131:GLY:N	2.49	0.46
13:Cd:273:ALA:N	13:Cd:375:VAL:O	2.48	0.46
13:Cf:130:THR:OG1	13:Cf:131:GLY:N	2.49	0.46
13:Ch:349:THR:OG1	13:Ch:350:GLY:N	2.49	0.46
12:Da:335:ASN:O	12:Da:338:SER:OG	2.32	0.46
13:Db:191:THR:HA	13:Db:194:LEU:HG	1.98	0.46
13:Db:224:TYR:CD2	12:Dc:245:GLN:HG2	2.50	0.46
12:De:161:ASP:O	12:De:251:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Dh:200:VAL:HG23	13:Dh:256:GLN:HG2	1.96	0.46
1:0W:55:PRO:HB2	1:0W:96:ASN:HD21	1.80	0.46
1:0K:86:PRO:HA	1:0K:89:VAL:HG22	1.97	0.46
1:0K:254:PRO:O	1:0K:258:THR:HG23	2.15	0.46
1:0B:34:ILE:HD13	1:0B:71:TYR:HB2	1.98	0.46
1:0B:283:PRO:O	1:0B:287:GLN:HG2	2.16	0.46
1:0D:169:VAL:N	1:0D:170:PRO:HD2	2.31	0.46
1:0E:154:GLY:O	1:0E:197:HIS:NE2	2.48	0.46
1:0F:302:ILE:HG23	1:0F:310:ARG:HE	1.81	0.46
1:0G:85:LEU:HD23	1:0G:88:LEU:HD12	1.97	0.46
1:0Q:281:HIS:CD2	1:0Q:282:THR:HG23	2.51	0.46
1:0Q:283:PRO:HB3	1:0Q:324:SER:HB3	1.98	0.46
1:0R:342:SER:HA	1:0R:345:ASN:HD22	1.80	0.46
1:0S:299:VAL:HG21	1:0S:334:GLU:HB3	1.98	0.46
1:0T:28:ALA:HB1	1:0T:67:ARG:HB2	1.96	0.46
1:0U:248:VAL:HG12	1:0U:253:PHE:CZ	2.51	0.46
1:0U:273:THR:O	1:0U:277:GLU:HG2	2.15	0.46
1:1A:28:ALA:HB1	1:1A:67:ARG:HB2	1.98	0.46
1:1A:179:PRO:HB3	5:1L:377:PRO:HB2	1.97	0.46
2:1E:136:ASP:O	2:1E:140:ARG:HG3	2.16	0.46
2:1E:159:PRO:HB3	2:1E:202:PRO:HG2	1.98	0.46
2:1E:207:LYS:NZ	2:1E:211:HIS:CE1	2.84	0.46
3:1H:88:SER:C	3:1H:141:TYR:HE1	2.23	0.46
3:1I:820:ALA:C	3:1I:822:LEU:H	2.23	0.46
4:1J:26:GLN:HE22	4:1J:85:PRO:CD	2.23	0.46
4:1J:95:THR:HB	4:1J:97:HIS:NE2	2.31	0.46
4:1K:95:THR:HB	4:1K:97:HIS:NE2	2.31	0.46
6:1N:1016:LEU:HD21	6:1N:1070:HIS:HA	1.98	0.46
6:1N:2030:ALA:O	6:1N:2034:VAL:HG12	2.16	0.46
6:1N:2330:TYR:CZ	6:1N:2416:TRP:HB2	2.51	0.46
10:1R:58:THR:N	13:Ad:339:ARG:HH21	1.97	0.46
10:1R:393:ALA:C	13:Ab:123:ARG:HE	2.24	0.46
12:1a:208:TYR:HE2	13:1b:329:ASN:ND2	2.13	0.46
12:1a:394:PHE:CD1	13:1b:261:PRO:HA	2.50	0.46
12:1a:396:HIS:CD2	13:1b:262:TYR:HA	2.51	0.46
13:1b:15:GLN:HB3	13:1b:228:ASN:ND2	2.31	0.46
13:1b:30:ILE:HA	13:1b:36:MET:HB3	1.98	0.46
13:1d:30:ILE:HA	13:1d:36:MET:HB3	1.98	0.46
13:1d:64:ARG:NH1	13:1d:129:CYS:HB3	2.31	0.46
12:1e:161:ASP:N	12:1e:161:ASP:OD1	2.45	0.46
13:1f:12:ALA:HB2	54:1f:501:GTP:C8	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1f:30:ILE:HA	13:1f:36:MET:HB3	1.98	0.46
13:1f:175:PRO:O	13:1f:394:LYS:NZ	2.46	0.46
24:2T:141:ARG:HD3	13:Dh:215:ARG:NH2	2.31	0.46
24:2T:209:TYR:CD1	24:2T:214:ILE:HD11	2.45	0.46
13:2b:212:ILE:O	13:2b:216:SER:OG	2.25	0.46
13:2d:12:ALA:HB2	54:2d:501:GTP:C8	2.51	0.46
13:2d:155:GLU:O	13:2d:159:VAL:HG23	2.16	0.46
13:2d:195:LEU:HD12	13:2d:266:HIS:HE1	1.81	0.46
13:2f:155:GLU:O	13:2f:159:VAL:HG23	2.16	0.46
13:2f:205:ASP:O	13:2f:209:ILE:HG13	2.15	0.46
12:2g:68:LEU:HD21	12:2g:147:MET:SD	2.56	0.46
13:2h:155:GLU:O	13:2h:159:VAL:HG23	2.16	0.46
13:2h:185:TYR:OH	13:2h:398:MET:HB3	2.16	0.46
13:2h:191:THR:HA	13:2h:194:LEU:HG	1.98	0.46
31:3H:249:LYS:HD3	32:3J:309:GLU:HG2	1.98	0.46
31:3I:136:LEU:O	31:3I:140:MET:HG2	2.15	0.46
32:3J:111:PHE:CZ	32:3J:113:PRO:HA	2.50	0.46
32:3J:265:ALA:O	32:3J:269:THR:HG23	2.15	0.46
32:3J:393:ALA:HB3	12:8a:160:PRO:HB2	1.98	0.46
34:3M:40:ASN:OD1	34:3M:44:LYS:HE3	2.16	0.46
34:3P:312:TRP:CG	34:3P:422:HIS:NE2	2.84	0.46
34:3T:456:LEU:HA	34:3T:459:ILE:HG22	1.98	0.46
34:3U:312:TRP:CG	34:3U:422:HIS:NE2	2.84	0.46
34:3X:111:ILE:HD13	34:3X:349:LEU:HD11	1.97	0.46
34:3X:269:GLY:O	34:3X:273:ARG:HG3	2.16	0.46
34:3X:330:GLU:OE1	34:3X:403:ARG:NH1	2.48	0.46
34:3Y:263:LYS:HA	34:3Y:266:HIS:CD2	2.51	0.46
34:3Z:111:ILE:HD13	34:3Z:349:LEU:HD11	1.97	0.46
12:3a:60:VAL:CB	12:3a:86:ARG:HG2	2.45	0.46
12:3a:103:LYS:HG2	12:3a:401:GLU:OE2	2.16	0.46
12:3a:232:VAL:HG22	12:3a:270:PHE:HB2	1.98	0.46
12:3c:139:LEU:HD22	12:3c:188:SER:HB3	1.97	0.46
13:3d:349:THR:OG1	13:3d:350:GLY:N	2.49	0.46
13:3f:401:LYS:NZ	12:3g:429:SER:O	2.23	0.46
12:3g:317:PHE:HB3	12:3g:321:MET:CE	2.45	0.46
13:3h:12:ALA:HB2	54:3h:501:GTP:C8	2.51	0.46
13:3h:185:TYR:OH	13:3h:398:MET:HB3	2.16	0.46
37:4E:581:LEU:C	43:5L:33:LEU:CA	2.85	0.46
37:4E:591:PRO:HD3	43:5L:21:PRO:HD2	1.98	0.46
37:4E:1761:TYR:CE2	37:4E:1763:PRO:O	2.69	0.46
37:4F:544:MET:CE	38:4N:69:CYS:O	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:592:GLU:OE2	37:4F:593:ALA:N	2.48	0.46
37:4G:977:PRO:HG2	37:4G:1067:PRO:HB2	1.97	0.46
37:4G:1302:ASN:CB	43:5I:122:MET:HE1	2.46	0.46
37:4H:1136:ARG:CG	38:4M:32:GLU:OE2	2.61	0.46
38:4K:25:PRO:CA	38:4K:28:VAL:H	2.29	0.46
38:4L:78:GLU:O	38:4L:82:TYR:CD1	2.69	0.46
38:4M:27:ALA:O	38:4M:28:VAL:C	2.58	0.46
38:4M:78:GLU:O	38:4M:82:TYR:CD1	2.69	0.46
38:4N:26:GLU:CB	38:4N:26:GLU:CD	2.70	0.46
38:4N:73:PRO:HB2	38:4N:75:ASN:H	1.80	0.46
38:4N:78:GLU:O	38:4N:82:TYR:CD1	2.69	0.46
38:4O:41:LYS:HB2	38:4O:44:LEU:HD23	1.98	0.46
39:4Q:50:ARG:NH2	44:5S:46:ASN:OD1	2.48	0.46
40:4T:50:LEU:HD11	40:4T:73:LEU:HB3	1.97	0.46
40:4T:487:LEU:HG	40:4T:522:LEU:HD13	1.98	0.46
12:4a:271:THR:OG1	12:4a:272:PRO:HA	2.15	0.46
13:4b:406:HIS:CD2	12:4c:261:PRO:HD3	2.51	0.46
13:4d:349:THR:OG1	13:4d:350:GLY:N	2.49	0.46
13:4f:155:GLU:O	13:4f:159:VAL:HG23	2.16	0.46
54:4f:501:GTP:O3G	12:4g:252:LYS:HE2	2.16	0.46
12:4g:99:ASN:HA	12:4g:142:GLY:H	1.80	0.46
13:4h:30:ILE:HA	13:4h:36:MET:HB3	1.98	0.46
41:5A:77:GLY:C	43:5L:184:ILE:CB	2.89	0.46
41:5C:77:GLY:N	41:5C:92:TRP:O	2.46	0.46
41:5C:167:PRO:CB	41:5C:172:GLN:H	2.28	0.46
43:5I:24:LYS:HD3	43:5I:24:LYS:H	1.81	0.46
43:5L:120:SER:OG	43:5L:121:PHE:N	2.47	0.46
43:5L:143:MET:C	43:5L:145:SER:N	2.70	0.46
13:5b:175:PRO:HG3	13:5b:390:ARG:NH2	2.31	0.46
13:5b:185:TYR:OH	13:5b:398:MET:HB3	2.16	0.46
13:5d:155:GLU:O	13:5d:159:VAL:HG23	2.16	0.46
12:5e:286:VAL:HB	12:5e:325:GLU:CD	2.41	0.46
12:5g:112:LEU:O	12:5g:116:VAL:HG23	2.15	0.46
13:5h:223:THR:HG23	13:5h:225:THR:HG23	1.98	0.46
47:6A:1247:GLU:HG3	47:6A:1503:LYS:HZ1	1.81	0.46
47:6A:1618:TYR:O	47:6A:1824:ARG:NH2	2.48	0.46
47:6A:1631:ALA:HB2	47:6A:1920:TRP:HZ2	1.80	0.46
48:6E:259:VAL:HG12	48:6E:259:VAL:O	2.16	0.46
48:6F:237:VAL:HG12	48:6F:262:ASN:HD21	1.80	0.46
49:6H:263:ASP:HA	49:6H:266:LEU:HD12	1.96	0.46
49:6H:401:VAL:HG11	49:6H:432:LEU:CD1	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6J:351:LEU:HA	49:6J:351:LEU:HD12	1.81	0.46
50:6K:73:ARG:O	50:6K:77:ARG:HG3	2.15	0.46
50:6L:196:LEU:HD12	50:6L:196:LEU:H	1.79	0.46
50:6L:382:GLN:HE22	50:6L:399:LEU:CD2	2.29	0.46
51:6M:1458:LEU:HD11	51:6M:1484:LEU:HD21	1.98	0.46
51:6N:1378:ASN:OD1	51:6N:1379:ASP:N	2.49	0.46
51:6N:1593:LEU:HD21	51:6N:1606:LEU:CD1	2.45	0.46
12:6a:161:ASP:OD2	12:6a:162:ARG:HG2	2.16	0.46
13:6b:130:THR:OG1	13:6b:131:GLY:N	2.49	0.46
12:6c:193:VAL:HG13	12:6c:262:ARG:HB2	1.98	0.46
13:6d:12:ALA:HB2	54:6e:501:GTP:C8	2.51	0.46
13:6d:15:GLN:HB3	13:6d:228:ASN:ND2	2.31	0.46
13:6d:185:TYR:OH	13:6d:398:MET:HB3	2.16	0.46
13:6d:406:HIS:CG	12:6e:261:PRO:HD3	2.50	0.46
12:6e:87:PRO:HD2	12:7e:281:TYR:CD1	2.51	0.46
12:6e:330:MET:SD	12:6e:349:VAL:HG11	2.55	0.46
13:6f:12:ALA:HB2	54:6g:501:GTP:C8	2.51	0.46
13:6f:15:GLN:HB3	13:6f:228:ASN:ND2	2.31	0.46
13:6f:185:TYR:OH	13:6f:398:MET:HB3	2.16	0.46
13:6f:227:LEU:O	13:6f:231:ILE:HG13	2.15	0.46
13:6h:175:PRO:HG3	13:6h:390:ARG:NH2	2.31	0.46
12:7a:278:SER:HA	12:7a:281:TYR:CD2	2.50	0.46
13:7b:191:THR:HA	13:7b:194:LEU:HG	1.98	0.46
13:7b:223:THR:HG23	13:7b:225:THR:HG23	1.98	0.46
13:7d:191:THR:HA	13:7d:194:LEU:HG	1.98	0.46
12:7e:60:VAL:CG2	12:7e:86:ARG:HB2	2.45	0.46
12:7g:50:TYR:CE2	12:7g:241:ARG:HD3	2.51	0.46
12:8a:113:ILE:HG12	12:8a:117:LEU:HD23	1.97	0.46
12:8a:246:LEU:HD11	12:8a:323:THR:CG2	2.46	0.46
13:8b:21:TRP:CZ3	13:8b:52:PHE:HB3	2.50	0.46
13:8b:155:GLU:O	13:8b:159:VAL:HG23	2.16	0.46
12:8c:284:LEU:HD23	12:8c:362:LYS:HD3	1.98	0.46
13:8d:30:ILE:HA	13:8d:36:MET:HB3	1.98	0.46
13:8d:155:GLU:O	13:8d:159:VAL:HG23	2.16	0.46
12:8e:31:ASP:HB2	12:8e:32:PRO:HD2	1.97	0.46
12:8e:225:LEU:O	12:8e:229:ILE:HG12	2.15	0.46
13:8f:130:THR:OG1	13:8f:131:GLY:N	2.49	0.46
13:8f:175:PRO:HG3	13:8f:390:ARG:NH2	2.31	0.46
13:8h:15:GLN:HB3	13:8h:228:ASN:ND2	2.31	0.46
13:8h:30:ILE:HA	13:8h:36:MET:HB3	1.98	0.46
13:8h:130:THR:OG1	13:8h:131:GLY:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:9b:130:THR:OG1	13:9b:131:GLY:N	2.49	0.46
13:9d:175:PRO:HG3	13:9d:390:ARG:NH2	2.31	0.46
12:9e:91:VAL:CG1	12:9e:116:VAL:HG22	2.46	0.46
13:9f:15:GLN:HB3	13:9f:228:ASN:ND2	2.31	0.46
12:9g:330:MET:HB3	12:9g:349:VAL:HG11	1.97	0.46
12:Aa:337:ASN:HB3	12:Aa:340:TYR:HD2	1.81	0.46
13:Ab:223:THR:HG23	13:Ab:225:THR:HG23	1.98	0.46
13:Ab:233:GLN:HG3	13:Ab:368:LEU:HD13	1.96	0.46
13:Ab:273:ALA:N	13:Ab:375:VAL:O	2.48	0.46
12:Ac:159:TYR:HB3	12:Ac:162:ARG:HG3	1.97	0.46
12:Ac:202:LEU:HD22	12:Ac:300:MET:HE2	1.97	0.46
12:Ac:211:CYS:SG	12:Ac:220:PRO:HB3	2.56	0.46
13:Ad:15:GLN:HB3	13:Ad:228:ASN:ND2	2.31	0.46
13:Af:64:ARG:NH1	13:Af:129:CYS:HB3	2.31	0.46
13:Ah:15:GLN:NE2	54:Ah:501:GTP:O6	2.48	0.46
13:Bb:155:GLU:O	13:Bb:159:VAL:HG23	2.16	0.46
12:Bc:285:THR:HG23	12:Bc:288:GLU:H	1.81	0.46
13:Bd:155:GLU:O	13:Bd:159:VAL:HG23	2.16	0.46
13:Bd:248:LEU:HD23	13:Bd:248:LEU:HA	1.79	0.46
12:Be:101:TRP:NE1	12:Be:188:SER:OG	2.49	0.46
13:Bf:223:THR:HG23	13:Bf:225:THR:HG23	1.98	0.46
12:Bg:21:TRP:CZ3	12:Bg:61:PRO:HB3	2.51	0.46
12:Bg:237:THR:OG1	12:Bg:241:ARG:NH1	2.49	0.46
12:Ca:16:ILE:HD11	12:Ca:229:ILE:HG21	1.98	0.46
13:Cb:12:ALA:HB2	54:Cc:501:GTP:C8	2.51	0.46
12:Cc:60:VAL:HG11	12:Cc:86:ARG:HB2	1.98	0.46
13:Cd:64:ARG:NH1	13:Cd:129:CYS:HB3	2.31	0.46
12:Ce:50:TYR:OH	12:Ce:237:THR:CG2	2.53	0.46
13:Cf:155:GLU:O	13:Cf:159:VAL:HG23	2.16	0.46
13:Ch:273:ALA:N	13:Ch:375:VAL:O	2.48	0.46
12:Da:161:ASP:O	12:Da:251:ARG:NH2	2.49	0.46
13:Db:64:ARG:NH1	13:Db:129:CYS:HB3	2.31	0.46
12:Dc:178:THR:OG1	12:Dc:181:GLU:HG3	2.15	0.46
13:Dd:130:THR:OG1	13:Dd:131:GLY:N	2.49	0.46
13:Dd:175:PRO:HG3	13:Dd:390:ARG:NH2	2.31	0.46
13:Df:175:PRO:HG3	13:Df:390:ARG:NH2	2.31	0.46
12:Dg:67:ASP:O	12:Dg:92:PHE:HA	2.16	0.46
12:Dg:193:VAL:HG13	12:Dg:262:ARG:HB2	1.98	0.46
12:Dg:245:GLN:HB3	12:Dg:353:VAL:HG13	1.97	0.46
13:Dh:15:GLN:HB3	13:Dh:228:ASN:ND2	2.31	0.46
1:0H:17:ARG:O	1:0H:21:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0H:353:LYS:HD3	1:0H:386:LEU:HD22	1.98	0.46
1:0J:178:GLU:O	1:0J:184:LYS:NZ	2.44	0.46
1:0I:44:ALA:O	1:0I:48:PRO:HD3	2.16	0.46
1:0K:235:GLN:O	1:0K:239:HIS:ND1	2.49	0.46
1:0K:245:GLU:HA	1:0K:248:VAL:HG22	1.97	0.46
1:0K:337:LEU:O	1:0K:341:VAL:HG23	2.15	0.46
1:0A:210:ALA:O	1:0A:214:LEU:HG	2.16	0.46
1:0A:270:HIS:O	1:0A:273:THR:OG1	2.27	0.46
1:0B:56:SER:O	1:0B:59:GLN:HG2	2.16	0.46
1:0B:72:SER:OG	1:0B:75:LEU:HG	2.16	0.46
1:0B:372:LYS:HA	1:0B:411:LEU:CD1	2.46	0.46
1:0C:407:VAL:O	1:0C:411:LEU:HB2	2.15	0.46
1:0F:257:LEU:HD13	39:4Q:136:LEU:HD21	1.98	0.46
1:0P:6:VAL:HG13	1:0Q:27:MET:SD	2.56	0.46
1:0R:134:LEU:HB2	1:0R:171:LEU:HD23	1.98	0.46
1:0R:210:ALA:O	1:0R:214:LEU:HG	2.16	0.46
1:0T:83:GLU:C	1:0T:86:PRO:HD2	2.41	0.46
1:0V:306:ALA:HB3	1:0V:309:ASN:ND2	2.31	0.46
1:0X:210:ALA:O	1:0X:214:LEU:HG	2.16	0.46
1:0X:344:LEU:HA	1:0X:347:GLU:CD	2.40	0.46
1:0Y:245:GLU:OE1	1:0Y:285:LEU:HD21	2.16	0.46
1:0Z:210:ALA:O	1:0Z:214:LEU:HG	2.15	0.46
1:1B:350:ASP:O	1:1B:353:LYS:HB2	2.15	0.46
1:1C:411:LEU:HD22	1:1C:417:LEU:HD21	1.98	0.46
2:1D:147:MET:HG2	2:1D:172:LEU:HD13	1.98	0.46
2:1D:426:LEU:O	2:1D:428:GLN:C	2.59	0.46
2:1F:459:GLY:O	2:1F:463:SER:CB	2.64	0.46
3:1H:196:THR:OG1	47:6A:290:GLY:HA3	2.16	0.46
3:1H:783:LEU:HA	3:1H:783:LEU:HD23	1.68	0.46
3:1H:820:ALA:C	3:1H:822:LEU:H	2.23	0.46
4:1J:170:CYS:SG	4:1J:171:ASP:N	2.89	0.46
5:1L:552:HIS:CE1	5:1L:556:TYR:CE1	3.04	0.46
5:1M:597:LYS:NZ	5:1M:600:ARG:HD3	2.30	0.46
6:1N:159:HIS:CE1	8:1P:753:LEU:HD22	2.51	0.46
7:1O:1492:ARG:HH22	44:5V:150:THR:HA	1.81	0.46
10:1R:370:PRO:HA	12:Bc:328:GLU:OE2	2.16	0.46
12:1a:161:ASP:O	12:1a:251:ARG:NH2	2.49	0.46
12:1e:3:GLU:HB3	12:1e:62:ARG:NH2	2.31	0.46
12:1e:48:ASN:O	12:1e:62:ARG:NH2	2.43	0.46
12:1e:330:MET:SD	12:1e:349:VAL:HG11	2.55	0.46
13:1f:15:GLN:HB3	13:1f:228:ASN:ND2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:2F:112:GLY:HA2	13:Bb:47:ASP:HB3	1.98	0.46
15:2H:193:UNK:HA	13:6h:46:ASP:HB2	1.98	0.46
24:2T:156:LYS:HG2	24:2T:160:ARG:CD	2.45	0.46
24:2U:149:SER:HB3	13:Dd:304:LYS:NZ	2.31	0.46
24:2U:209:TYR:HD1	24:2U:214:ILE:HG21	1.81	0.46
12:2a:222:PHE:CE2	13:2b:248:LEU:HG	2.49	0.46
13:2b:64:ARG:NH1	13:2b:129:CYS:HB3	2.31	0.46
13:2b:185:TYR:OH	13:2b:398:MET:HB3	2.16	0.46
13:2d:9:ILE:HD13	13:2d:150:GLY:HA2	1.96	0.46
13:2d:15:GLN:HB3	13:2d:228:ASN:ND2	2.31	0.46
13:2d:185:TYR:OH	13:2d:398:MET:HB3	2.16	0.46
13:2f:185:TYR:OH	13:2f:398:MET:HB3	2.16	0.46
13:2h:15:GLN:HB3	13:2h:228:ASN:ND2	2.31	0.46
13:2h:64:ARG:NH1	13:2h:129:CYS:HB3	2.31	0.46
13:2h:195:LEU:HD12	13:2h:266:HIS:HE1	1.81	0.46
30:3F:301:VAL:CB	13:6f:264:ARG:HE	2.29	0.46
31:3I:402:ALA:CB	13:8h:339:ARG:NH1	2.79	0.46
32:3J:127:CYS:N	32:3J:131:ASN:OD1	2.32	0.46
32:3J:376:GLU:CG	32:3J:383:TYR:HB3	2.45	0.46
33:3L:48:GLU:C	33:3L:69:LEU:HD12	2.40	0.46
34:3M:259:MET:N	34:3M:259:MET:HE2	2.31	0.46
34:3P:356:PHE:CZ	34:3P:375:TYR:HB2	2.51	0.46
34:3Q:39:GLU:OE1	34:3Q:46:ARG:NH2	2.48	0.46
34:3S:52:GLN:O	34:3S:56:TYR:HD2	1.97	0.46
34:3S:254:MET:HG3	34:3S:481:LEU:HD11	1.97	0.46
34:3T:422:HIS:O	34:3T:426:LEU:HD23	2.15	0.46
34:3T:479:ALA:O	34:3T:483:GLU:HG2	2.16	0.46
34:3W:196:LEU:HD23	34:3Y:48:HIS:CD2	2.50	0.46
12:3c:202:LEU:HD22	12:3c:300:MET:HE2	1.97	0.46
13:3f:12:ALA:HB2	54:3f:501:GTP:C8	2.51	0.46
13:3f:191:THR:HA	13:3f:194:LEU:HG	1.98	0.46
12:3g:189:VAL:HG21	12:3g:378:PHE:HE1	1.81	0.46
13:3h:15:GLN:HB3	13:3h:228:ASN:ND2	2.31	0.46
34:4A:99:ARG:O	34:4A:103:LEU:HG	2.16	0.46
34:4B:388:ALA:O	34:4B:391:GLU:HG2	2.15	0.46
34:4B:494:GLN:HA	34:4B:497:MET:HG2	1.98	0.46
35:4C:419:LYS:HB3	35:4C:466:GLN:HG2	1.97	0.46
35:4C:790:LEU:HD12	35:4C:817:ASN:HD21	1.80	0.46
35:4C:811:ARG:NH1	37:4E:1681:ARG:HD3	2.27	0.46
36:4D:107:PHE:HA	36:4D:110:LYS:NZ	2.30	0.46
37:4E:684:GLU:O	37:4E:688:LEU:HG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1180:ALA:HA	37:4F:1201:SER:HB3	1.96	0.46
37:4F:1339:ALA:O	38:4N:32:GLU:N	2.48	0.46
37:4G:792:VAL:HG21	37:4G:798:MET:CB	2.40	0.46
37:4G:968:VAL:HB	37:4G:1076:THR:OG1	2.16	0.46
37:4G:1166:LEU:O	37:4G:1167:ASP:O	2.33	0.46
37:4G:1286:THR:HG22	37:4G:1297:THR:HG23	1.98	0.46
37:4H:1071:THR:O	37:4H:1072:ALA:HB2	2.15	0.46
37:4H:1084:ARG:HD3	38:4M:41:LYS:CG	2.46	0.46
37:4H:1092:LEU:HG	38:4M:37:GLY:N	2.31	0.46
37:4H:1130:ALA:CB	38:4M:40:LYS:HZ1	2.22	0.46
38:4J:78:GLU:O	38:4J:82:TYR:CD1	2.69	0.46
40:4U:50:LEU:HD11	40:4U:73:LEU:HB3	1.97	0.46
40:4U:293:HIS:ND1	40:4U:304:ALA:HB3	2.30	0.46
40:4U:487:LEU:HG	40:4U:522:LEU:HD13	1.98	0.46
40:4U:726:PRO:HA	40:4U:818:MET:HE2	1.97	0.46
40:4V:394:ASP:HA	40:4V:660:ARG:HH12	1.81	0.46
40:4V:440:CYS:HA	40:4V:443:VAL:HG22	1.98	0.46
41:4Z:161:PHE:HA	41:4Z:166:GLY:HA3	1.98	0.46
13:4b:155:GLU:O	13:4b:159:VAL:HG23	2.16	0.46
13:4b:175:PRO:HG3	13:4b:390:ARG:NH2	2.31	0.46
13:4b:185:TYR:OH	13:4b:398:MET:HB3	2.16	0.46
13:4b:349:THR:OG1	13:4b:350:GLY:N	2.49	0.46
13:4d:30:ILE:HA	13:4d:36:MET:HB3	1.98	0.46
13:4f:185:TYR:OH	13:4f:398:MET:HB3	2.16	0.46
13:4f:349:THR:OG1	13:4f:350:GLY:N	2.49	0.46
42:5H:139:LEU:HA	43:5L:146:TYR:HA	1.98	0.46
42:5H:141:GLN:N	43:5L:47:LYS:CD	2.78	0.46
43:5K:24:LYS:HD3	43:5K:24:LYS:H	1.81	0.46
43:5L:32:LEU:HG	43:5L:36:TYR:HE2	1.81	0.46
43:5L:158:HIS:ND1	43:5L:160:SER:HB3	2.31	0.46
44:5Q:133:ASP:HA	44:5Q:140:VAL:HG22	1.97	0.46
44:5S:87:ASP:HA	44:5S:90:ARG:NH1	2.31	0.46
44:5U:35:GLU:O	44:5U:39:VAL:HG23	2.16	0.46
44:5V:113:MET:HG3	44:5V:128:MET:HE1	1.98	0.46
46:5Z:90:HIS:HA	46:5Z:93:VAL:HG22	1.97	0.46
12:5a:118:ASP:O	12:5a:122:LYS:HG2	2.15	0.46
13:5b:64:ARG:NH1	13:5b:129:CYS:HB3	2.31	0.46
12:5c:130:LEU:HB3	12:5c:162:ARG:HD3	1.98	0.46
13:5d:195:LEU:HD12	13:5d:266:HIS:HE1	1.81	0.46
13:5f:195:LEU:HD12	13:5f:266:HIS:HE1	1.81	0.46
13:5h:175:PRO:HG3	13:5h:390:ARG:NH2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:46:HIS:HB3	47:6B:62:ARG:NH2	2.30	0.46
47:6B:1014:GLU:CA	47:6B:1017:LYS:HG2	2.45	0.46
3:6D:256:THR:O	3:6D:260:THR:HG23	2.15	0.46
3:6D:561:GLU:OE2	3:6D:625:ALA:HB3	2.16	0.46
48:6F:961:THR:OG1	48:6F:962:PRO:HD3	2.16	0.46
48:6F:1027:PHE:CE2	50:6L:398:LEU:HD13	2.51	0.46
49:6G:370:VAL:O	49:6G:374:LYS:HG2	2.15	0.46
49:6H:12:LEU:O	49:6H:16:VAL:HG23	2.16	0.46
49:6J:446:GLU:HG3	49:6J:447:ARG:HD2	1.98	0.46
50:6K:381:VAL:O	50:6K:385:ILE:HG13	2.16	0.46
50:6L:402:VAL:HB	50:6L:423:ASN:HA	1.96	0.46
51:6M:1828:ALA:O	51:6M:1832:ARG:HG3	2.16	0.46
51:6M:1902:MET:HE2	51:6M:1910:ALA:HA	1.98	0.46
51:6M:2046:LEU:HD21	51:6M:2048:ILE:HD11	1.97	0.46
51:6M:2061:LEU:HD23	51:6M:2070:ARG:HD2	1.97	0.46
51:6N:1902:MET:HE2	51:6N:1910:ALA:HA	1.98	0.46
51:6N:2061:LEU:HD23	51:6N:2070:ARG:HD2	1.97	0.46
13:6b:15:GLN:HB3	13:6b:228:ASN:ND2	2.31	0.46
13:6b:155:GLU:O	13:6b:159:VAL:HG23	2.16	0.46
13:6b:175:PRO:HG3	13:6b:390:ARG:NH2	2.31	0.46
12:6c:86:ARG:HA	12:7c:281:TYR:CD1	2.51	0.46
12:6c:174:LYS:NZ	12:6c:205:GLU:HB3	2.31	0.46
12:6c:334:GLN:OE1	12:6c:349:VAL:HG22	2.15	0.46
13:6d:130:THR:OG1	13:6d:131:GLY:N	2.49	0.46
13:6d:175:PRO:HG3	13:6d:390:ARG:NH2	2.31	0.46
13:6f:30:ILE:HA	13:6f:36:MET:HB3	1.98	0.46
12:6g:50:TYR:CE2	12:6g:241:ARG:HD3	2.51	0.46
13:6h:130:THR:OG1	13:6h:131:GLY:N	2.49	0.46
13:6h:185:TYR:OH	13:6h:398:MET:HB3	2.16	0.46
13:7b:130:THR:OG1	13:7b:131:GLY:N	2.49	0.46
12:7c:317:PHE:HB3	12:7c:321:MET:CE	2.45	0.46
13:7d:185:TYR:OH	13:7d:398:MET:HB3	2.16	0.46
13:7f:64:ARG:NH1	13:7f:129:CYS:HB3	2.31	0.46
13:7f:223:THR:HG23	13:7f:225:THR:HG23	1.98	0.46
13:7h:130:THR:OG1	13:7h:131:GLY:N	2.49	0.46
13:7h:223:THR:HG23	13:7h:225:THR:HG23	1.98	0.46
13:7h:349:THR:OG1	13:7h:350:GLY:N	2.49	0.46
12:8e:3:GLU:HB3	12:8e:62:ARG:NH2	2.31	0.46
12:8e:246:LEU:HB3	12:8e:353:VAL:HG12	1.98	0.46
13:8f:30:ILE:HA	13:8f:36:MET:HB3	1.98	0.46
13:8f:155:GLU:O	13:8f:159:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:8f:223:THR:HG23	13:8f:225:THR:HG23	1.98	0.46
12:9a:91:VAL:HG21	12:9a:116:VAL:HG22	1.97	0.46
13:9b:15:GLN:NE2	54:9b:501:GTP:O6	2.48	0.46
13:9b:185:TYR:OH	13:9b:398:MET:HB3	2.16	0.46
13:9b:195:LEU:HD12	13:9b:266:HIS:HE1	1.81	0.46
13:9d:100:ALA:HA	12:9e:252:LYS:CG	2.43	0.46
13:9d:223:THR:HG23	13:9d:225:THR:HG23	1.98	0.46
13:9f:12:ALA:HB2	54:9f:501:GTP:C8	2.51	0.46
12:9g:159:TYR:HB3	12:9g:162:ARG:HG3	1.98	0.46
13:9h:21:TRP:CZ3	13:9h:52:PHE:HB3	2.50	0.46
12:Aa:16:ILE:HD11	12:Aa:229:ILE:HG21	1.98	0.46
12:Aa:26:ASP:OD2	12:Aa:359:LYS:HE2	2.16	0.46
12:Aa:330:MET:SD	12:Aa:349:VAL:HG11	2.56	0.46
13:Ab:15:GLN:NE2	54:Ab:501:GTP:O6	2.48	0.46
12:Ac:67:ASP:O	12:Ac:92:PHE:HA	2.16	0.46
12:Ac:330:MET:O	12:Ac:333:VAL:HG22	2.15	0.46
13:Af:15:GLN:HB3	13:Af:228:ASN:ND2	2.31	0.46
12:Ag:202:LEU:HD22	12:Ag:300:MET:HE2	1.97	0.46
13:Ah:130:THR:OG1	13:Ah:131:GLY:N	2.49	0.46
12:Ba:279:GLN:C	12:Ba:281:TYR:H	2.23	0.46
12:Bg:31:ASP:HB2	12:Bg:32:PRO:HD2	1.97	0.46
12:Ca:377:MET:HE2	12:Ca:377:MET:HB2	1.61	0.46
13:Cd:12:ALA:HB2	54:Cd:501:GTP:C8	2.51	0.46
13:Cf:12:ALA:HB2	54:Cf:501:GTP:C8	2.51	0.46
13:Cf:64:ARG:NH1	13:Cf:129:CYS:HB3	2.31	0.46
12:Cg:248:ALA:CB	12:Cg:252:LYS:HD2	2.46	0.46
13:Ch:130:THR:OG1	13:Ch:131:GLY:N	2.49	0.46
12:Dc:173:PRO:HA	12:Dc:380:ARG:HD2	1.98	0.46
13:Dd:15:GLN:HB3	13:Dd:228:ASN:ND2	2.31	0.46
13:Df:130:THR:OG1	13:Df:131:GLY:N	2.49	0.46
1:0H:21:VAL:HG11	1:0H:60:SER:OG	2.15	0.46
1:0J:392:SER:O	1:0J:396:LEU:HB3	2.16	0.46
1:0I:281:HIS:CD2	1:0I:282:THR:HG23	2.51	0.46
1:0A:353:LYS:HD3	1:0A:386:LEU:HD22	1.97	0.46
1:0B:411:LEU:O	1:0B:411:LEU:HG	2.15	0.46
1:0E:10:PHE:CE2	1:0F:37:LEU:HD23	2.51	0.46
1:0E:34:ILE:HD13	1:0E:71:TYR:HB2	1.98	0.46
1:0G:21:VAL:CG1	1:0G:49:LEU:HD21	2.46	0.46
1:0G:55:PRO:HB2	1:0G:96:ASN:HD21	1.80	0.46
1:0L:401:ARG:O	1:0L:405:LYS:HG2	2.16	0.46
1:0M:12:ARG:O	1:0M:16:GLU:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Q:277:GLU:HA	1:0Q:280:LYS:HZ2	1.80	0.46
1:0R:34:ILE:HG21	1:0R:71:TYR:CB	2.46	0.46
1:0S:56:SER:O	1:0S:59:GLN:HG2	2.16	0.46
1:0U:53:ASN:OD1	1:0U:54:VAL:HG23	2.16	0.46
1:0V:174:LEU:O	1:0V:178:GLU:HG2	2.16	0.46
1:0V:185:ARG:NH1	1:0V:224:LYS:HG2	2.31	0.46
1:0X:193:ASP:HA	1:0X:196:LYS:HE3	1.97	0.46
1:0Z:122:ILE:HG12	1:0Z:127:LEU:HD21	1.98	0.46
1:1A:56:SER:O	1:1A:59:GLN:HG2	2.16	0.46
1:1A:72:SER:OG	1:1A:75:LEU:HG	2.15	0.46
2:1D:49:GLN:HG3	2:1D:51:VAL:H	1.81	0.46
2:1D:207:LYS:NZ	2:1D:211:HIS:CE1	2.84	0.46
2:1E:179:HIS:O	2:1E:183:ILE:HG13	2.16	0.46
2:1G:64:THR:CA	2:1G:88:LEU:HD13	2.46	0.46
3:1H:945:ILE:O	3:1H:949:LYS:HG3	2.16	0.46
4:1K:170:CYS:SG	4:1K:171:ASP:N	2.89	0.46
5:1M:488:LEU:HB3	5:1M:489:PRO:HD2	1.98	0.46
12:1a:141:GLY:O	12:1a:145:SER:OG	2.26	0.46
13:1b:12:ALA:HB2	54:1b:501:GTP:C8	2.51	0.46
13:1d:12:ALA:HB2	54:1d:501:GTP:C8	2.51	0.46
12:1e:207:LEU:HD23	12:1e:210:ILE:HD11	1.98	0.46
13:1f:210:TYR:CE1	12:1g:324:LYS:HB2	2.51	0.46
12:1g:99:ASN:HA	12:1g:142:GLY:H	1.79	0.46
14:2G:43:THR:HA	12:De:74:ASP:CG	2.41	0.46
24:2T:190:TRP:HA	24:2T:193:GLN:OE1	2.16	0.46
13:2b:15:GLN:HB3	13:2b:228:ASN:ND2	2.31	0.46
13:2b:195:LEU:HD12	13:2b:266:HIS:HE1	1.81	0.46
12:2c:3:GLU:N	12:2c:3:GLU:OE1	2.49	0.46
13:2d:191:THR:HA	13:2d:194:LEU:HG	1.98	0.46
12:2e:106:TYR:C	12:2e:107:THR:HG1	2.24	0.46
13:2h:30:ILE:HA	13:2h:36:MET:HB3	1.98	0.46
31:3I:153:GLU:HA	31:3I:156:ARG:CD	2.46	0.46
33:3L:50:LEU:HD23	33:3L:50:LEU:HA	1.73	0.46
33:3L:102:LEU:HB2	33:3L:126:ASN:HB3	1.97	0.46
34:3O:338:LEU:O	34:3O:342:GLN:HG2	2.16	0.46
34:3Q:503:ASN:HB3	34:3T:467:LEU:HD13	1.98	0.46
34:3R:48:HIS:CD2	34:4B:196:LEU:HD23	2.50	0.46
34:3S:497:MET:HA	34:3S:497:MET:HE2	1.97	0.46
34:3U:121:LEU:HG	34:3U:357:LEU:HD11	1.98	0.46
34:3V:85:TYR:HB3	34:3V:324:HIS:CD2	2.51	0.46
34:3W:386:HIS:CE1	34:3W:390:LEU:HD11	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3Z:34:PHE:CE1	34:3Z:273:ARG:HD2	2.50	0.46
13:3b:191:THR:HA	13:3b:194:LEU:HG	1.98	0.46
12:3c:27:GLU:OE2	12:3c:318:ARG:NH2	2.40	0.46
12:3e:232:VAL:HG22	12:3e:270:PHE:HB2	1.98	0.46
13:3h:191:THR:HA	13:3h:194:LEU:HG	1.98	0.46
35:4C:330:PRO:HB2	35:4C:371:ASP:OD2	2.16	0.46
36:4D:39:ALA:HA	36:4D:108:LYS:HZ2	1.80	0.46
36:4D:226:PRO:O	36:4D:230:THR:HG23	2.16	0.46
37:4E:575:SER:O	37:4E:577:LEU:CA	2.62	0.46
37:4E:692:MET:HB3	38:4P:59:PRO:HB3	1.98	0.46
37:4E:1701:GLN:NE2	37:4E:1773:PRO:HG2	2.29	0.46
37:4E:1736:ARG:HB3	37:4E:1739:GLN:HG2	1.97	0.46
37:4F:1160:GLY:HA3	37:4F:1189:LEU:HD13	1.96	0.46
37:4G:686:HIS:CG	37:4G:689:ARG:HD3	2.51	0.46
37:4G:972:PHE:CE2	37:4G:974:VAL:CG2	2.99	0.46
37:4G:1335:MET:HE3	37:4G:1338:PHE:O	2.10	0.46
37:4H:599:VAL:O	37:4H:1776:VAL:HA	2.16	0.46
37:4H:623:ARG:NH1	37:4H:688:LEU:HD21	2.30	0.46
37:4H:1333:VAL:HB	38:4M:27:ALA:O	2.16	0.46
38:4M:70:LYS:HB3	38:4M:71:GLU:CD	2.41	0.46
38:4N:70:LYS:HB3	38:4N:71:GLU:CD	2.41	0.46
39:4R:93:ASN:O	39:4R:97:THR:HG23	2.16	0.46
39:4S:68:ARG:NH2	44:5R:118:GLU:OE1	2.49	0.46
40:4T:726:PRO:HA	40:4T:818:MET:HE2	1.97	0.46
13:4d:155:GLU:O	13:4d:159:VAL:HG23	2.16	0.46
13:4d:185:TYR:OH	13:4d:398:MET:HB3	2.16	0.46
12:4e:3:GLU:HB3	12:4e:62:ARG:NH2	2.31	0.46
12:4e:7:ILE:HB	12:4e:135:VAL:HG12	1.98	0.46
12:4e:16:ILE:HD11	12:4e:229:ILE:HG21	1.98	0.46
13:4f:30:ILE:HA	13:4f:36:MET:HB3	1.98	0.46
13:4h:349:THR:OG1	13:4h:350:GLY:N	2.49	0.46
42:5H:81:VAL:HG21	42:5H:129:MET:CE	2.46	0.46
42:5H:136:HIS:C	43:5L:50:ILE:N	2.68	0.46
42:5H:141:GLN:HG3	43:5L:47:LYS:HD3	1.98	0.46
42:5H:141:GLN:HB2	43:5L:47:LYS:HB3	1.97	0.46
42:5H:144:PHE:HZ	43:5L:144:TYR:CE2	2.34	0.46
44:5T:86:GLU:HG3	44:5T:150:THR:HB	1.97	0.46
44:5T:87:ASP:HA	44:5T:90:ARG:NH1	2.31	0.46
44:5U:110:ARG:HG3	44:5U:125:VAL:HG11	1.98	0.46
13:5b:12:ALA:HB2	54:5c:501:GTP:C8	2.51	0.46
13:5h:246:GLY:N	13:5h:249:ASN:OD1	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:560:ILE:CD1	47:6A:1447:GLU:HG3	2.46	0.46
47:6A:1798:ASN:O	47:6A:1799:ASN:C	2.58	0.46
47:6B:209:MET:SD	12:Bg:407:GLU:OE2	2.74	0.46
47:6B:1026:ALA:HA	47:6B:1029:HIS:CD2	2.51	0.46
47:6B:1276:PHE:HA	51:6N:2467:ARG:HH12	1.81	0.46
47:6B:1596:TRP:HB2	47:6B:1599:THR:HG21	1.97	0.46
47:6B:1625:VAL:HG11	47:6B:1754:LEU:HD22	1.97	0.46
47:6B:1779:ARG:CZ	51:6N:1595:MET:HE1	2.46	0.46
48:6F:154:ASP:CB	49:6H:225:ARG:HH12	2.27	0.46
48:6F:195:HIS:N	48:6F:216:GLY:O	2.46	0.46
48:6F:259:VAL:O	48:6F:259:VAL:HG12	2.16	0.46
49:6I:56:ILE:HG22	49:6I:62:PRO:HG3	1.98	0.46
49:6I:446:GLU:HG3	49:6I:447:ARG:HD2	1.98	0.46
49:6J:344:ASP:HB3	49:6J:347:PRO:CG	2.45	0.46
50:6K:241:GLU:OE2	50:6K:270:ARG:NH2	2.47	0.46
51:6M:1378:ASN:OD1	51:6M:1379:ASP:N	2.49	0.46
51:6N:1458:LEU:HD11	51:6N:1484:LEU:HD21	1.98	0.46
51:6N:1828:ALA:O	51:6N:1832:ARG:HG3	2.16	0.46
51:6N:2029:LEU:HB2	51:6N:2093:ALA:HB3	1.98	0.46
13:6b:30:ILE:HA	13:6b:36:MET:HB3	1.98	0.46
13:6b:64:ARG:NH1	13:6b:129:CYS:HB3	2.31	0.46
12:6c:66:MET:SD	12:6c:151:LEU:HD22	2.56	0.46
13:6d:30:ILE:HA	13:6d:36:MET:HB3	1.98	0.46
13:6d:155:GLU:O	13:6d:159:VAL:HG23	2.16	0.46
12:6g:202:LEU:HD22	12:6g:300:MET:HE2	1.97	0.46
13:7b:349:THR:OG1	13:7b:350:GLY:N	2.49	0.46
12:7c:50:TYR:CE2	12:7c:241:ARG:HD3	2.52	0.46
13:7d:12:ALA:HB2	54:7e:501:GTP:C8	2.51	0.46
13:7d:175:PRO:HG3	13:7d:390:ARG:NH2	2.31	0.46
13:7f:21:TRP:CZ3	13:7f:52:PHE:HB3	2.50	0.46
12:7g:229:ILE:HA	12:7g:300:MET:HE1	1.97	0.46
12:7g:311:LEU:HD23	12:7g:342:VAL:HG21	1.97	0.46
13:7h:21:TRP:CZ3	13:7h:52:PHE:HB3	2.50	0.46
13:8b:30:ILE:HA	13:8b:36:MET:HB3	1.98	0.46
13:8b:175:PRO:HG3	13:8b:390:ARG:NH2	2.31	0.46
12:8c:207:LEU:HB3	12:8c:225:LEU:HD22	1.97	0.46
13:8d:273:ALA:N	13:8d:375:VAL:O	2.48	0.46
12:8e:377:MET:HE2	12:8e:377:MET:HB2	1.60	0.46
13:8f:15:GLN:HB3	13:8f:228:ASN:ND2	2.31	0.46
13:8f:273:ALA:N	13:8f:375:VAL:O	2.48	0.46
12:8g:176:SER:OG	12:8g:178:THR:O	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:8h:64:ARG:NH1	13:8h:129:CYS:HB3	2.31	0.46
13:9b:90:GLU:OE1	13:9b:121:ARG:NE	2.44	0.46
12:9e:42:LEU:HD13	12:9e:356:ILE:HD11	1.98	0.46
13:9f:248:LEU:HD23	13:9f:248:LEU:HA	1.79	0.46
13:9h:15:GLN:HB3	13:9h:228:ASN:ND2	2.31	0.46
13:9h:175:PRO:HG3	13:9h:390:ARG:NH2	2.31	0.46
13:Ab:15:GLN:HB3	13:Ab:228:ASN:ND2	2.31	0.46
13:Ab:195:LEU:HD12	13:Ab:266:HIS:HE1	1.81	0.46
12:Ac:21:TRP:CZ3	12:Ac:61:PRO:HB3	2.51	0.46
12:Ac:68:LEU:HB3	12:Ac:96:GLY:HA2	1.97	0.46
12:Ac:193:VAL:HG13	12:Ac:262:ARG:HB2	1.98	0.46
13:Ad:64:ARG:NH1	13:Ad:129:CYS:HB3	2.31	0.46
12:Ae:176:SER:OG	13:Af:349:THR:HB	2.16	0.46
12:Ae:272:PRO:HD3	12:Ae:364:SER:HA	1.97	0.46
12:Ag:50:TYR:CE2	12:Ag:241:ARG:HD3	2.52	0.46
12:Ag:284:LEU:HD23	12:Ag:362:LYS:HB3	1.98	0.46
13:Bb:223:THR:HG23	13:Bb:225:THR:HG23	1.98	0.46
13:Bb:349:THR:OG1	13:Bb:350:GLY:N	2.49	0.46
13:Bd:223:THR:HG23	13:Bd:225:THR:HG23	1.98	0.46
13:Bd:349:THR:OG1	13:Bd:350:GLY:N	2.49	0.46
12:Bg:55:THR:HG22	12:Cg:284:LEU:H	1.80	0.46
12:Ca:25:SER:OG	12:Ca:30:ILE:O	2.30	0.46
13:Cb:155:GLU:O	13:Cb:159:VAL:HG23	2.16	0.46
12:Cc:31:ASP:HB2	12:Cc:32:PRO:HD2	1.97	0.46
13:Cd:21:TRP:CZ3	13:Cd:52:PHE:HB3	2.50	0.46
12:Ce:201:VAL:HG22	12:Ce:266:PHE:O	2.17	0.46
13:Cf:273:ALA:N	13:Cf:375:VAL:O	2.48	0.46
12:Cg:193:VAL:HG13	12:Cg:262:ARG:HB2	1.98	0.46
12:Cg:202:LEU:HD22	12:Cg:300:MET:HE2	1.98	0.46
13:Ch:12:ALA:HB2	54:Ch:501:GTP:C8	2.51	0.46
13:Ch:155:GLU:O	13:Ch:159:VAL:HG23	2.16	0.46
13:Df:15:GLN:HB3	13:Df:228:ASN:ND2	2.31	0.46
12:Dg:232:VAL:HG22	12:Dg:270:PHE:HB2	1.98	0.46
12:Dg:334:GLN:HA	12:Dg:341:PHE:CE1	2.51	0.46
1:0J:182:SER:O	1:0J:186:ILE:HG12	2.16	0.46
1:0J:353:LYS:HB2	1:0J:396:LEU:HD13	1.98	0.46
1:0W:85:LEU:O	1:0W:89:VAL:HG13	2.16	0.46
1:0I:417:LEU:O	1:0I:421:VAL:HG23	2.16	0.46
1:0C:290:VAL:HG22	1:0C:295:VAL:HG11	1.97	0.45
1:0G:261:LYS:HZ2	39:4R:136:LEU:HD13	1.80	0.45
1:0G:367:THR:CB	1:0G:370:HIS:CD2	2.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0M:92:LEU:HG	1:0M:132:THR:HG21	1.98	0.45
1:0N:45:LEU:C	1:0N:48:PRO:HD2	2.41	0.45
1:0N:194:ILE:HG22	1:0N:201:LEU:HB3	1.98	0.45
1:0O:30:ASN:O	1:0O:34:ILE:HG13	2.16	0.45
1:0P:185:ARG:HG3	1:0P:186:ILE:N	2.30	0.45
1:0P:302:ILE:HG23	1:0P:310:ARG:HD2	1.98	0.45
1:0S:320:ILE:HB	1:0S:327:LEU:HD22	1.97	0.45
1:0U:227:ARG:HG3	1:0U:267:VAL:HG22	1.97	0.45
1:0V:285:LEU:O	1:0V:289:VAL:HG23	2.15	0.45
1:0V:379:CYS:O	1:0V:383:LEU:HG	2.16	0.45
1:0Y:386:LEU:HA	1:0Y:389:ASP:OD1	2.15	0.45
1:0Z:407:VAL:O	1:0Z:411:LEU:HB2	2.16	0.45
1:1C:237:ALA:HB2	1:1C:247:VAL:HG21	1.99	0.45
1:1C:337:LEU:O	1:1C:341:VAL:HG23	2.16	0.45
2:1D:319:CYS:N	2:1D:320:PRO:HD2	2.31	0.45
2:1E:426:LEU:O	2:1E:428:GLN:C	2.59	0.45
2:1G:447:THR:C	2:1G:449:VAL:H	2.24	0.45
3:1H:800:TYR:O	3:1H:804:VAL:HG23	2.16	0.45
3:1I:591:LEU:HD23	3:1I:591:LEU:HA	1.81	0.45
4:1J:178:ARG:O	4:1J:179:GLU:HB3	2.15	0.45
4:1K:178:ARG:O	4:1K:179:GLU:HB3	2.15	0.45
6:1N:1344:PRO:HD3	6:1N:1475:LEU:HD12	1.96	0.45
7:1O:1365:VAL:HG21	7:1O:1516:VAL:HG12	1.97	0.45
7:1O:1420:TRP:CE3	7:1O:1481:LEU:HD22	2.51	0.45
7:1O:2084:LEU:HD23	7:1O:2088:VAL:HG21	1.99	0.45
7:1O:2828:GLY:HA2	7:1O:2989:ALA:HA	1.97	0.45
13:1d:273:ALA:N	13:1d:375:VAL:O	2.48	0.45
12:1e:42:LEU:HD13	12:1e:356:ILE:HD11	1.98	0.45
12:1g:330:MET:HB3	12:1g:349:VAL:HG11	1.98	0.45
15:2H:46:UNK:CB	13:Ch:46:ASP:OD1	2.64	0.45
21:2O:4:UNK:C	21:2O:6:UNK:H2	2.28	0.45
24:2T:175:ALA:HB2	13:Dh:339:ARG:HE	1.81	0.45
24:2T:199:ARG:NH2	24:2T:222:GLU:CD	2.72	0.45
24:2U:129:SER:OG	24:2U:132:ARG:N	2.49	0.45
24:2V:131:CYS:HA	24:2V:151:PHE:HA	1.98	0.45
12:2c:171:PRO:HB3	12:2c:181:GLU:CG	2.43	0.45
12:2e:50:TYR:CE2	12:2e:241:ARG:HD3	2.51	0.45
13:2f:30:ILE:HA	13:2f:36:MET:HB3	1.98	0.45
13:2f:64:ARG:NH1	13:2f:129:CYS:HB3	2.31	0.45
30:3F:379:PHE:HB3	13:8f:308:ARG:O	2.16	0.45
31:3I:122:ARG:O	31:3I:126:VAL:HG13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:3J:67:ARG:HE	32:3J:106:GLU:HB3	1.80	0.45
32:3J:407:ARG:O	32:3J:411:VAL:N	2.47	0.45
34:3M:47:ASN:ND2	34:3P:77:GLN:OE1	2.45	0.45
34:3M:68:LEU:HA	34:3M:71:LEU:HD12	1.99	0.45
34:3M:252:GLU:O	34:3M:253:ALA:C	2.59	0.45
34:3O:342:GLN:CD	34:3O:386:HIS:HE2	2.24	0.45
34:3P:122:GLN:OE1	34:3P:372:GLN:HG2	2.16	0.45
34:3Q:325:ASP:O	34:3Q:329:THR:HG23	2.16	0.45
34:3T:71:LEU:HD11	34:3T:419:LEU:HD11	1.99	0.45
34:3T:82:ILE:CG1	34:3T:320:LEU:HD21	2.46	0.45
34:3V:219:ILE:HB	34:3Z:74:LEU:HD21	1.98	0.45
34:3X:74:LEU:HD21	34:4A:219:ILE:HB	1.98	0.45
34:3X:480:ALA:O	34:3X:484:GLU:HG3	2.16	0.45
34:3X:500:TYR:CE2	34:3X:504:LEU:HD11	2.51	0.45
34:3Y:92:THR:HG21	34:3Y:328:MET:HE1	1.97	0.45
34:3Y:250:ARG:O	34:3Y:254:MET:HG2	2.16	0.45
13:3b:12:ALA:HB2	54:3c:501:GTP:C8	2.51	0.45
13:3b:155:GLU:O	13:3b:159:VAL:HG23	2.16	0.45
13:3b:227:LEU:O	13:3b:231:ILE:HG13	2.15	0.45
12:3c:236:ILE:HG12	12:3c:368:ILE:HD11	1.98	0.45
13:3d:12:ALA:HB2	54:3d:501:GTP:C8	2.51	0.45
13:3d:191:THR:HA	13:3d:194:LEU:HG	1.98	0.45
13:3d:227:LEU:O	13:3d:231:ILE:HG13	2.15	0.45
12:3e:161:ASP:O	12:3e:251:ARG:NH2	2.49	0.45
13:3f:15:GLN:HB3	13:3f:228:ASN:ND2	2.31	0.45
12:3g:106:TYR:HE2	12:3g:403:MET:HE2	1.81	0.45
34:4A:89:ILE:HD13	34:4A:328:MET:SD	2.56	0.45
35:4C:811:ARG:HH12	37:4E:1681:ARG:CG	2.29	0.45
37:4E:577:LEU:CD2	42:5H:91:TYR:OH	2.64	0.45
37:4F:599:VAL:O	37:4F:1776:VAL:HA	2.16	0.45
37:4F:1082:LEU:CA	37:4F:1082:LEU:O	2.49	0.45
37:4F:1082:LEU:HD12	38:4N:39:HIS:CE1	2.50	0.45
37:4F:1082:LEU:HD23	37:4F:1082:LEU:HB3	1.96	0.45
37:4G:431:ALA:HA	37:4G:433:LYS:HB2	1.98	0.45
37:4G:853:VAL:C	37:4G:854:TYR:CG	2.93	0.45
37:4H:534:HIS:NE2	37:4H:538:GLU:OE1	2.49	0.45
37:4H:1098:ASP:HB2	37:4H:1101:LEU:HD12	1.98	0.45
38:4I:27:ALA:O	38:4I:28:VAL:C	2.58	0.45
38:4J:53:LEU:HG	38:4M:72:ARG:NE	2.31	0.45
38:4O:52:TYR:CE1	38:4P:72:ARG:HD2	2.51	0.45
39:4Q:206:MET:HE3	39:4Q:206:MET:HB3	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:4R:131:HIS:O	39:4R:135:GLU:HG3	2.16	0.45
40:4T:293:HIS:ND1	40:4T:304:ALA:HB3	2.30	0.45
12:4c:202:LEU:HD22	12:4c:300:MET:HE2	1.97	0.45
12:4c:317:PHE:HB3	12:4c:321:MET:CE	2.45	0.45
13:4d:191:THR:HA	13:4d:194:LEU:HG	1.98	0.45
13:4d:403:ALA:HB2	12:4e:344:TRP:HZ3	1.80	0.45
12:4e:64:ILE:HG12	12:4e:119:VAL:HG13	1.98	0.45
12:4g:91:VAL:CG2	12:4g:116:VAL:HG12	2.44	0.45
13:4h:64:ARG:NH1	13:4h:129:CYS:HB3	2.31	0.45
13:4h:185:TYR:OH	13:4h:398:MET:HB3	2.16	0.45
13:4h:191:THR:HA	13:4h:194:LEU:HG	1.98	0.45
41:5A:96:ALA:HB1	41:5A:117:ALA:O	2.16	0.45
42:5G:157:LEU:HB2	43:5K:155:ALA:O	2.17	0.45
42:5H:7:TRP:HZ3	42:5H:10:PHE:HE1	1.62	0.45
42:5H:137:TYR:CB	43:5L:49:ALA:CA	2.92	0.45
43:5K:27:LEU:CD2	43:5K:32:LEU:HD13	2.43	0.45
44:5S:35:GLU:O	44:5S:39:VAL:HG23	2.16	0.45
44:5T:35:GLU:O	44:5T:39:VAL:HG23	2.16	0.45
44:5U:28:ASP:O	44:5U:30:THR:HG23	2.15	0.45
12:5a:271:THR:OG1	12:5a:272:PRO:HA	2.16	0.45
13:5b:246:GLY:N	13:5b:249:ASN:OD1	2.43	0.45
12:5e:52:ASN:O	12:5e:60:VAL:HG22	2.16	0.45
12:5e:73:MET:HA	12:5e:76:VAL:CG1	2.46	0.45
13:5f:175:PRO:HG3	13:5f:390:ARG:NH2	2.31	0.45
47:6A:1276:PHE:HA	51:6M:2467:ARG:HH12	1.81	0.45
47:6A:1650:ILE:O	47:6A:1654:VAL:HG23	2.16	0.45
47:6B:402:MET:HG2	3:6D:1005:PRO:HG3	1.99	0.45
47:6B:406:ARG:HH11	3:6D:1002:PRO:C	2.24	0.45
47:6B:1650:ILE:O	47:6B:1654:VAL:HG23	2.16	0.45
3:6D:53:ARG:HD2	3:6D:94:ARG:HD2	1.98	0.45
3:6D:130:ALA:O	3:6D:134:ILE:HG12	2.17	0.45
3:6D:696:ARG:HE	3:6D:766:HIS:HE1	1.64	0.45
49:6H:33:SER:O	49:6H:37:LYS:HG2	2.16	0.45
50:6K:382:GLN:HE22	50:6K:399:LEU:CD2	2.29	0.45
50:6L:241:GLU:OE2	50:6L:241:GLU:HA	2.16	0.45
50:6L:381:VAL:O	50:6L:385:ILE:HG13	2.16	0.45
50:6L:499:LYS:HE2	50:6L:499:LYS:HB2	1.58	0.45
51:6M:2029:LEU:HB2	51:6M:2093:ALA:HB3	1.98	0.45
12:6a:31:ASP:HB2	12:6a:32:PRO:HD2	1.97	0.45
12:6a:48:ASN:O	12:6a:62:ARG:NH2	2.44	0.45
13:6b:96:LYS:HE3	12:6c:1:MET:HE1	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:6d:64:ARG:NH1	13:6d:129:CYS:HB3	2.31	0.45
12:6e:329:GLN:O	12:6e:333:VAL:HG23	2.15	0.45
12:6g:99:ASN:HA	12:6g:142:GLY:H	1.81	0.45
12:6g:236:ILE:HG12	12:6g:368:ILE:HD11	1.97	0.45
13:6h:30:ILE:HA	13:6h:36:MET:HB3	1.98	0.45
13:6h:155:GLU:O	13:6h:159:VAL:HG23	2.16	0.45
12:7a:201:VAL:HG22	12:7a:266:PHE:O	2.17	0.45
12:7e:86:ARG:NH1	12:8e:281:TYR:CG	2.84	0.45
13:7f:212:ILE:O	13:7f:216:SER:OG	2.25	0.45
13:7h:15:GLN:HB3	13:7h:228:ASN:ND2	2.31	0.45
12:8a:313:ALA:O	12:8a:349:VAL:HA	2.16	0.45
13:8b:15:GLN:HB3	13:8b:228:ASN:ND2	2.31	0.45
13:8b:349:THR:OG1	13:8b:350:GLY:N	2.49	0.45
12:8e:48:ASN:O	12:8e:62:ARG:NH2	2.44	0.45
13:8f:64:ARG:NH1	13:8f:129:CYS:HB3	2.31	0.45
12:8g:229:ILE:HA	12:8g:300:MET:HE1	1.96	0.45
13:8h:155:GLU:O	13:8h:159:VAL:HG23	2.16	0.45
13:9b:15:GLN:HB3	13:9b:228:ASN:ND2	2.31	0.45
13:9d:185:TYR:OH	13:9d:398:MET:HB3	2.16	0.45
13:9d:195:LEU:HD12	13:9d:266:HIS:HE1	1.81	0.45
13:9f:15:GLN:NE2	54:9f:501:GTP:O6	2.48	0.45
13:9f:185:TYR:OH	13:9f:398:MET:HB3	2.16	0.45
13:9h:64:ARG:NH1	13:9h:129:CYS:HB3	2.31	0.45
12:Ac:284:LEU:CD2	12:Ac:362:LYS:HB3	2.47	0.45
13:Ah:15:GLN:HB3	13:Ah:228:ASN:ND2	2.31	0.45
13:Ah:248:LEU:HD23	13:Ah:248:LEU:HA	1.79	0.45
13:Ah:349:THR:OG1	13:Ah:350:GLY:N	2.49	0.45
13:Bb:185:TYR:OH	13:Bb:398:MET:HB3	2.16	0.45
12:Bc:327:ASP:OD1	12:Bc:328:GLU:N	2.49	0.45
12:Bc:341:PHE:HB3	12:Bc:348:ASN:ND2	2.30	0.45
13:Bd:15:GLN:HB3	13:Bd:228:ASN:ND2	2.31	0.45
13:Bf:349:THR:OG1	13:Bf:350:GLY:N	2.49	0.45
12:Bg:170:VAL:HG21	12:Bg:201:VAL:HG13	1.98	0.45
12:Bg:229:ILE:HA	12:Bg:300:MET:HE1	1.96	0.45
13:Cb:21:TRP:CZ3	13:Cb:52:PHE:HB3	2.50	0.45
13:Cb:101:ASN:HB2	12:Cc:256:ASN:HD21	1.81	0.45
13:Cb:273:ALA:N	13:Cb:375:VAL:O	2.48	0.45
12:Cc:50:TYR:CE2	12:Cc:241:ARG:HD3	2.51	0.45
12:Cc:317:PHE:HB3	12:Cc:321:MET:CE	2.45	0.45
13:Cd:155:GLU:O	13:Cd:159:VAL:HG23	2.16	0.45
12:Cg:113:ILE:HD12	12:Cg:116:VAL:HG21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ch:64:ARG:NH1	13:Ch:129:CYS:HB3	2.31	0.45
12:Dc:193:VAL:HG13	12:Dc:262:ARG:HB2	1.99	0.45
13:Dd:155:GLU:O	13:Dd:159:VAL:HG23	2.16	0.45
13:Df:155:GLU:O	13:Df:159:VAL:HG23	2.16	0.45
1:0H:65:LEU:CD2	1:0H:84:ILE:HG21	2.46	0.45
1:0J:306:ALA:HB3	1:0J:309:ASN:ND2	2.31	0.45
1:0J:343:ALA:O	1:0J:346:GLU:C	2.59	0.45
1:0W:153:ALA:O	1:0W:197:HIS:NE2	2.48	0.45
1:0A:47:ARG:NH1	47:6B:117:LEU:HB2	2.29	0.45
1:0C:193:ASP:O	1:0C:197:HIS:HD2	1.98	0.45
1:0C:285:LEU:O	1:0C:289:VAL:HG23	2.16	0.45
1:0E:79:VAL:HG13	1:0E:84:ILE:HB	1.98	0.45
1:0F:86:PRO:HA	1:0F:89:VAL:HG22	1.98	0.45
1:0F:241:VAL:HG13	1:0F:281:HIS:HB3	1.98	0.45
1:0N:103:ALA:O	1:0N:107:LEU:HG	2.15	0.45
1:0N:285:LEU:O	1:0N:289:VAL:HG23	2.14	0.45
1:0O:105:PHE:O	1:0O:108:ARG:HG2	2.16	0.45
1:0Q:259:CYS:HA	1:0Q:262:PHE:CD2	2.50	0.45
1:0R:225:LEU:O	1:0R:229:VAL:HG22	2.16	0.45
1:0R:355:ALA:O	1:0R:359:THR:HG23	2.15	0.45
1:0S:169:VAL:N	1:0S:170:PRO:HD2	2.31	0.45
1:0S:354:SER:HB3	1:0S:399:LYS:HG3	1.97	0.45
1:0U:162:GLN:HA	1:0U:165:ASP:OD1	2.15	0.45
1:0U:240:SER:HB3	1:0U:243:LEU:HG	1.99	0.45
1:0V:128:ASP:OD1	1:0V:129:SER:N	2.48	0.45
1:0X:127:LEU:HB3	1:0X:166:ALA:CB	2.46	0.45
1:0Y:56:SER:O	1:0Y:59:GLN:HG2	2.16	0.45
1:0Y:134:LEU:HA	1:0Y:142:LYS:HG2	1.99	0.45
1:0Y:318:GLY:HA3	1:0Y:359:THR:HG22	1.99	0.45
1:0Z:248:VAL:HG11	1:0Z:285:LEU:HG	1.98	0.45
1:1C:254:PRO:O	1:1C:258:THR:HG23	2.16	0.45
2:1D:136:ASP:O	2:1D:140:ARG:HG3	2.16	0.45
2:1D:232:ALA:O	2:1D:236:VAL:HG23	2.16	0.45
2:1E:217:ALA:HB1	2:1E:260:ILE:HG22	1.98	0.45
2:1F:234:PRO:HB2	2:1F:235:PRO:HD3	1.99	0.45
2:1G:459:GLY:O	2:1G:463:SER:CB	2.64	0.45
3:1H:554:ILE:HA	3:1H:591:LEU:HD11	1.98	0.45
3:1H:591:LEU:HD23	3:1H:591:LEU:HA	1.81	0.45
3:1H:951:TYR:CZ	47:6A:391:ARG:NH2	2.83	0.45
3:1H:1009:ARG:CD	48:6F:353:ILE:HG21	2.39	0.45
3:1I:508:LEU:HG	3:1I:527:CYS:SG	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1K:67:LEU:HB2	4:1K:177:GLU:O	2.15	0.45
5:1L:367:GLY:O	5:1L:460:LEU:HD13	2.16	0.45
5:1L:534:ASP:OD1	5:1L:534:ASP:N	2.48	0.45
5:1M:441:ALA:HB1	12:1g:260:PHE:HB3	1.98	0.45
6:1N:316:ARG:NE	6:1N:316:ARG:HA	2.31	0.45
6:1N:345:ARG:HB2	6:1N:346:PRO:HD3	1.96	0.45
6:1N:2697:LEU:HA	6:1N:2697:LEU:HD12	1.50	0.45
10:1S:407:ALA:O	12:Be:213:ARG:NH1	2.47	0.45
12:1c:3:GLU:OE1	12:1c:3:GLU:N	2.49	0.45
13:1h:12:ALA:HB2	54:1h:501:GTP:C8	2.51	0.45
14:2F:135:ARG:HH12	13:Ab:36:MET:HE2	1.80	0.45
15:2H:66:UNK:N	12:Bg:92:PHE:HE2	2.14	0.45
13:2b:30:ILE:HA	13:2b:36:MET:HB3	1.98	0.45
12:2c:173:PRO:HA	12:2c:380:ARG:HD2	1.98	0.45
13:2f:195:LEU:HD12	13:2f:266:HIS:HE1	1.81	0.45
12:2g:50:TYR:CE2	12:2g:241:ARG:HD3	2.51	0.45
12:2g:232:VAL:HG22	12:2g:270:PHE:HB2	1.98	0.45
12:2g:236:ILE:HG12	12:2g:368:ILE:HD11	1.97	0.45
12:2g:311:LEU:HD23	12:2g:342:VAL:HG21	1.97	0.45
32:3J:186:ASN:HD22	32:3J:218:GLU:HB3	1.81	0.45
34:3N:485:TYR:CD2	34:3N:489:MET:HE2	2.49	0.45
34:3R:370:GLU:OE1	34:3R:374:SER:OG	2.33	0.45
34:3Z:122:GLN:HB3	34:3Z:368:LEU:HD22	1.97	0.45
12:3a:16:ILE:HD11	12:3a:229:ILE:HG21	1.97	0.45
12:3a:161:ASP:O	12:3a:251:ARG:NH2	2.49	0.45
12:3e:313:ALA:O	12:3e:349:VAL:HA	2.15	0.45
13:3f:227:LEU:O	13:3f:231:ILE:HG13	2.15	0.45
12:3g:237:THR:OG1	12:3g:241:ARG:NH1	2.49	0.45
13:3h:175:PRO:HG3	13:3h:390:ARG:NH2	2.31	0.45
13:3h:227:LEU:O	13:3h:231:ILE:HG13	2.15	0.45
34:4B:453:ARG:HA	34:4B:456:LEU:HG	1.97	0.45
37:4E:773:ARG:O	37:4E:1639:THR:HG22	2.16	0.45
37:4E:960:LEU:HD23	38:4P:72:ARG:HG3	1.98	0.45
37:4F:692:MET:HE1	38:4K:87:HIS:CD2	2.51	0.45
37:4F:1082:LEU:HD23	38:4N:42:ILE:CD1	2.45	0.45
37:4F:1083:ILE:HB	38:4N:38:VAL:HG23	1.92	0.45
37:4F:1090:GLN:HB3	37:4F:1092:LEU:HG	1.97	0.45
37:4F:1715:GLY:CA	37:4F:1754:TYR:HB2	2.47	0.45
37:4H:820:ARG:O	37:4H:870:THR:HG22	2.16	0.45
37:4H:903:THR:HG23	37:4H:905:ALA:H	1.79	0.45
37:4H:1084:ARG:CG	38:4M:41:LYS:CE	2.91	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1138:VAL:N	37:4H:1139:THR:CG2	2.78	0.45
38:4J:67:ALA:HA	38:4J:70:LYS:CB	2.40	0.45
38:4N:49:ILE:HD12	38:4N:49:ILE:H	1.81	0.45
38:4P:73:PRO:HG2	38:4P:76:PRO:HA	1.97	0.45
39:4Q:68:ARG:HB3	44:5P:41:ARG:HH12	1.81	0.45
40:4U:278:GLU:CD	40:4U:692:ARG:HD2	2.41	0.45
13:4b:30:ILE:HA	13:4b:36:MET:HB3	1.98	0.45
13:4b:64:ARG:NH1	13:4b:129:CYS:HB3	2.31	0.45
13:4b:191:THR:HA	13:4b:194:LEU:HG	1.98	0.45
12:4e:232:VAL:HG22	12:4e:270:PHE:HB2	1.98	0.45
12:4e:335:ASN:O	12:4e:338:SER:OG	2.32	0.45
13:4f:191:THR:HA	13:4f:194:LEU:HG	1.98	0.45
12:4g:50:TYR:CE2	12:4g:241:ARG:HD3	2.51	0.45
12:4g:317:PHE:HB3	12:4g:321:MET:CE	2.45	0.45
12:4g:330:MET:HB3	12:4g:349:VAL:HG11	1.98	0.45
41:5A:21:GLY:HA2	43:5L:187:GLU:C	2.41	0.45
42:5H:46:ARG:CD	42:5H:144:PHE:CD1	2.99	0.45
43:5K:17:SER:O	43:5K:17:SER:OG	2.29	0.45
44:5S:22:LEU:HD22	44:5P:116:LEU:HD23	1.97	0.45
13:5d:64:ARG:NH1	13:5d:129:CYS:HB3	2.31	0.45
12:5e:286:VAL:HB	12:5e:325:GLU:OE2	2.16	0.45
47:6A:19:ASP:OD2	47:6A:19:ASP:N	2.46	0.45
47:6A:46:HIS:HB3	47:6A:62:ARG:NH2	2.30	0.45
47:6A:117:LEU:O	47:6A:121:LEU:HG	2.17	0.45
47:6B:117:LEU:O	47:6B:121:LEU:HG	2.17	0.45
48:6E:195:HIS:N	48:6E:216:GLY:O	2.46	0.45
48:6E:380:ALA:O	48:6E:384:LEU:HG	2.15	0.45
49:6G:12:LEU:O	49:6G:16:VAL:HG23	2.16	0.45
49:6H:370:VAL:O	49:6H:374:LYS:HG2	2.15	0.45
49:6I:107:THR:HA	49:6I:110:VAL:HG22	1.98	0.45
49:6I:245:ASP:OD1	49:6I:245:ASP:N	2.50	0.45
50:6L:198:GLU:OE1	50:6L:219:GLU:HB2	2.16	0.45
51:6N:1267:VAL:O	51:6N:1323:ASP:HB2	2.15	0.45
12:6a:397:TRP:O	12:6a:401:GLU:HG2	2.16	0.45
13:6b:212:ILE:O	13:6b:216:SER:OG	2.25	0.45
13:6f:64:ARG:NH1	13:6f:129:CYS:HB3	2.31	0.45
13:6f:155:GLU:O	13:6f:159:VAL:HG23	2.16	0.45
13:6h:64:ARG:NH1	13:6h:129:CYS:HB3	2.31	0.45
12:7a:174:LYS:HB3	12:7a:174:LYS:HE3	1.63	0.45
12:7a:397:TRP:O	12:7a:401:GLU:OE1	2.32	0.45
13:7b:15:GLN:HB3	13:7b:228:ASN:ND2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7b:64:ARG:NH1	13:7b:129:CYS:HB3	2.31	0.45
13:7d:11:GLN:HE22	12:7e:247:ASN:H	1.64	0.45
13:7d:212:ILE:O	13:7d:216:SER:OG	2.25	0.45
12:7e:172:SER:HB2	12:7e:205:GLU:CD	2.41	0.45
12:7e:275:SER:HB2	12:7e:278:SER:OG	2.16	0.45
12:7e:276:ARG:HA	12:7e:279:GLN:CD	2.42	0.45
12:8a:163:MET:HE1	12:8a:165:LEU:CB	2.32	0.45
12:8c:179:VAL:O	12:8c:388:MET:HE1	2.17	0.45
12:8c:202:LEU:HD22	12:8c:300:MET:HE2	1.98	0.45
13:8d:15:GLN:HB3	13:8d:228:ASN:ND2	2.31	0.45
13:8d:175:PRO:O	13:8d:394:LYS:NZ	2.46	0.45
12:8e:192:LEU:HD13	12:8e:199:CYS:SG	2.56	0.45
13:8h:12:ALA:HB2	54:8h:501:GTP:C8	2.51	0.45
13:8h:273:ALA:N	13:8h:375:VAL:O	2.48	0.45
12:9a:121:ARG:HG2	12:9a:125:GLU:OE2	2.17	0.45
13:9d:15:GLN:HB3	13:9d:228:ASN:ND2	2.31	0.45
13:9d:64:ARG:NH1	13:9d:129:CYS:HB3	2.31	0.45
13:9h:185:TYR:OH	13:9h:398:MET:HB3	2.16	0.45
12:Aa:161:ASP:O	12:Aa:251:ARG:NH2	2.49	0.45
12:Ac:50:TYR:CE2	12:Ac:241:ARG:HD3	2.52	0.45
12:Ae:23:VAL:HA	12:Ae:26:ASP:OD1	2.15	0.45
12:Ag:67:ASP:O	12:Ag:92:PHE:HA	2.17	0.45
12:Ag:236:ILE:HG12	12:Ag:368:ILE:HD11	1.97	0.45
12:Ag:285:THR:HG23	12:Ag:288:GLU:H	1.81	0.45
12:Ba:161:ASP:O	12:Ba:251:ARG:NH2	2.49	0.45
12:Ba:222:PHE:CZ	13:Bb:248:LEU:HG	2.52	0.45
12:Ba:397:TRP:CZ2	13:Bb:260:VAL:HB	2.45	0.45
13:Bb:175:PRO:HG3	13:Bb:390:ARG:NH2	2.31	0.45
12:Be:161:ASP:O	12:Be:251:ARG:NH2	2.49	0.45
12:Be:176:SER:HB2	12:Be:181:GLU:OE1	2.17	0.45
13:Bf:175:PRO:HG3	13:Bf:390:ARG:NH2	2.31	0.45
12:Bg:202:LEU:HD22	12:Bg:300:MET:HE2	1.98	0.45
12:Bg:232:VAL:HG22	12:Bg:270:PHE:HB2	1.98	0.45
13:Bh:130:THR:OG1	13:Bh:131:GLY:N	2.49	0.45
12:Ca:31:ASP:HB2	12:Ca:32:PRO:HD2	1.97	0.45
12:Ce:11:GLN:HG3	13:Cf:249:ASN:HD22	1.81	0.45
12:Ce:106:TYR:HE1	12:Ce:403:MET:HE1	1.81	0.45
12:Ce:161:ASP:N	12:Ce:161:ASP:OD1	2.45	0.45
13:Db:15:GLN:HB3	13:Db:228:ASN:ND2	2.31	0.45
13:Db:155:GLU:O	13:Db:159:VAL:HG23	2.16	0.45
13:Db:185:TYR:OH	13:Db:398:MET:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Dc:330:MET:HB3	12:Dc:349:VAL:HG11	1.98	0.45
13:Dh:30:ILE:HA	13:Dh:36:MET:HB3	1.98	0.45
13:Dh:195:LEU:HD12	13:Dh:266:HIS:HE1	1.81	0.45
1:0H:185:ARG:HG3	1:0H:186:ILE:N	2.30	0.45
1:0J:42:ALA:HB2	1:0K:10:PHE:HZ	1.82	0.45
1:0J:192:SER:HB3	1:0J:231:CYS:SG	2.55	0.45
1:0W:270:HIS:O	1:0W:274:VAL:HG23	2.15	0.45
1:0K:122:ILE:HD13	1:0K:127:LEU:HD21	1.98	0.45
1:0K:248:VAL:HG12	1:0K:253:PHE:CZ	2.49	0.45
1:0K:248:VAL:HA	1:0K:253:PHE:CE2	2.51	0.45
1:0A:50:LEU:HD23	1:0A:87:GLN:HG2	1.97	0.45
1:0A:127:LEU:HB3	1:0A:166:ALA:CB	2.46	0.45
1:0B:320:ILE:HD11	1:0B:331:VAL:HG13	1.98	0.45
1:0E:164:VAL:O	1:0E:167:GLY:HA2	2.16	0.45
1:0F:83:GLU:O	1:0F:86:PRO:HD2	2.16	0.45
1:0F:270:HIS:O	1:0F:274:VAL:HG23	2.16	0.45
1:0F:320:ILE:HD12	1:0F:327:LEU:HD12	1.98	0.45
1:0L:56:SER:HB3	12:8e:404:ASP:CG	2.42	0.45
1:0N:34:ILE:HD13	1:0N:71:TYR:HB2	1.97	0.45
1:0O:118:ALA:O	1:0O:122:ILE:HG13	2.16	0.45
1:0O:248:VAL:HA	1:0O:253:PHE:CE2	2.51	0.45
1:0P:164:VAL:O	1:0P:167:GLY:HA2	2.16	0.45
1:0Q:134:LEU:HD21	1:0Q:146:ALA:HB2	1.97	0.45
1:0S:118:ALA:HB1	1:0S:152:ILE:HG12	1.98	0.45
1:0S:248:VAL:HA	1:0S:253:PHE:CE2	2.51	0.45
1:0U:105:PHE:O	1:0U:108:ARG:HG2	2.16	0.45
1:0V:122:ILE:HG12	1:0V:127:LEU:HD21	1.98	0.45
1:0X:301:TYR:O	1:0X:305:SER:OG	2.34	0.45
1:0Y:172:LEU:HD22	1:0Y:187:ALA:HA	1.98	0.45
1:0Z:174:LEU:O	1:0Z:178:GLU:HG2	2.16	0.45
1:0Z:365:ARG:HG3	1:0Z:406:SER:HB3	1.98	0.45
1:0Z:380:LEU:HD22	1:0Z:404:LEU:HD23	1.97	0.45
1:1B:243:LEU:HD23	1:1B:243:LEU:HA	1.54	0.45
2:1D:176:HIS:O	2:1D:179:HIS:CE1	2.69	0.45
2:1D:511:ARG:C	2:1D:513:GLU:N	2.74	0.45
3:1H:196:THR:C	47:6A:290:GLY:HA3	2.42	0.45
3:1H:796:LEU:HD11	3:1H:934:LEU:HD21	1.99	0.45
3:1H:988:TRP:CH2	47:6A:398:GLU:HB3	2.51	0.45
3:1I:796:LEU:HD11	3:1I:934:LEU:HD21	1.99	0.45
4:1K:194:LEU:HG	4:1K:272:TYR:HE2	1.81	0.45
5:1L:488:LEU:HB3	5:1L:489:PRO:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1L:552:HIS:HA	5:1L:555:LYS:HE2	1.99	0.45
5:1M:534:ASP:N	5:1M:534:ASP:OD1	2.48	0.45
6:1N:1765:ALA:HB1	6:1N:2192:GLN:HG2	1.97	0.45
7:1O:365:LEU:CD1	7:1O:438:LEU:HD23	2.46	0.45
7:1O:915:LEU:HD23	7:1O:925:LEU:HB3	1.98	0.45
7:1O:2121:ARG:HH12	7:1O:2173:GLU:HG2	1.81	0.45
7:1O:3185:ARG:HE	7:1O:3213:LEU:HA	1.82	0.45
10:1R:79:ARG:O	10:1R:83:THR:HG23	2.16	0.45
12:1a:256:ASN:CB	12:1a:350:LYS:HD2	2.40	0.45
12:1e:388:MET:HE3	13:1f:347:CYS:SG	2.56	0.45
24:2T:189:ILE:O	24:2T:192:GLU:HG3	2.16	0.45
12:2c:60:VAL:HG21	12:2c:86:ARG:NH2	2.29	0.45
12:2c:139:LEU:HD22	12:2c:188:SER:HB3	1.99	0.45
13:2d:30:ILE:HA	13:2d:36:MET:HB3	1.98	0.45
13:2f:15:GLN:HB3	13:2f:228:ASN:ND2	2.31	0.45
12:2g:27:GLU:OE2	12:2g:318:ARG:NH2	2.37	0.45
28:3C:554:ARG:HH12	12:3g:404:ASP:H	1.64	0.45
29:3E:1188:TRP:CZ2	29:3E:1195:ARG:NE	2.81	0.45
30:3F:543:SER:HB3	30:3F:546:GLU:CG	2.45	0.45
34:3M:455:THR:O	34:3M:459:ILE:HG23	2.16	0.45
34:3O:51:GLY:HA2	34:3O:54:GLU:OE2	2.17	0.45
34:3O:80:LEU:HD13	34:3T:44:LYS:HA	1.97	0.45
34:3O:325:ASP:O	34:3O:329:THR:HG23	2.16	0.45
34:3P:119:MET:HE1	34:3P:372:GLN:CG	2.46	0.45
34:3P:326:GLU:HG3	34:3P:330:GLU:OE2	2.15	0.45
34:3Q:100:ILE:O	34:3Q:104:ARG:HG3	2.16	0.45
34:3S:47:ASN:ND2	34:3U:77:GLN:OE1	2.45	0.45
34:3S:90:GLU:HA	34:3S:93:VAL:HG12	1.97	0.45
34:3U:85:TYR:HB3	34:3U:324:HIS:CD2	2.52	0.45
34:3U:381:ASN:O	34:3U:385:GLU:HG3	2.16	0.45
34:3V:503:ASN:O	34:3V:507:VAL:HG23	2.17	0.45
34:3W:401:VAL:HB	34:3W:402:PRO:HD3	1.99	0.45
13:3b:15:GLN:HB3	13:3b:228:ASN:ND2	2.31	0.45
13:3d:15:GLN:HB3	13:3d:228:ASN:ND2	2.31	0.45
13:3d:195:LEU:HD12	13:3d:266:HIS:HE1	1.81	0.45
12:3e:16:ILE:HD11	12:3e:229:ILE:HG21	1.98	0.45
12:3e:330:MET:SD	12:3e:349:VAL:HG11	2.55	0.45
12:3g:173:PRO:HA	12:3g:380:ARG:HD2	1.97	0.45
34:4A:386:HIS:CE1	34:4A:390:LEU:HD11	2.52	0.45
34:4B:254:MET:O	34:4B:257:LYS:HG2	2.17	0.45
34:4B:366:VAL:HG11	37:4H:908:ALA:CB	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4C:795:ARG:HE	37:4E:1701:GLN:NE2	2.14	0.45
36:4D:66:TYR:HE1	36:4D:103:LEU:HD22	1.80	0.45
37:4E:575:SER:N	43:5L:30:ARG:NE	2.65	0.45
37:4G:426:VAL:HG11	37:4G:853:VAL:CG2	2.47	0.45
37:4G:691:MET:C	38:4I:59:PRO:HG2	2.40	0.45
37:4G:1093:VAL:CG1	38:4L:32:GLU:CG	2.90	0.45
37:4G:1184:TRP:HB2	37:4G:1186:ARG:HE	1.81	0.45
37:4H:1282:ILE:HG22	37:4H:1300:GLU:HB3	1.98	0.45
38:4I:25:PRO:CA	38:4I:28:VAL:H	2.29	0.45
38:4I:57:VAL:O	38:4I:58:VAL:C	2.60	0.45
38:4J:84:LEU:CB	38:4M:77:VAL:CG2	2.89	0.45
39:4Q:93:ASN:O	39:4Q:97:THR:HG23	2.16	0.45
39:4R:15:LEU:HD12	43:5J:101:LYS:HB2	1.96	0.45
40:4V:293:HIS:ND1	40:4V:304:ALA:HB3	2.30	0.45
12:4c:3:GLU:N	12:4c:3:GLU:OE1	2.49	0.45
12:4e:52:ASN:HB3	12:4e:60:VAL:CG1	2.47	0.45
12:4e:330:MET:SD	12:4e:349:VAL:HG11	2.55	0.45
12:4g:173:PRO:HA	12:4g:380:ARG:HD2	1.98	0.45
12:4g:202:LEU:HD22	12:4g:300:MET:HE2	1.97	0.45
13:4h:15:GLN:HB3	13:4h:228:ASN:ND2	2.31	0.45
42:5H:53:TYR:CE1	42:5H:133:LEU:CB	2.98	0.45
42:5H:53:TYR:HE1	42:5H:133:LEU:CB	2.29	0.45
42:5H:143:VAL:HG23	43:5L:146:TYR:N	2.31	0.45
44:5S:56:ILE:HA	44:5S:59:VAL:HG12	1.97	0.45
44:5T:55:MET:O	44:5T:59:VAL:HG12	2.16	0.45
12:5a:377:MET:HB2	12:5a:377:MET:HE2	1.61	0.45
12:5a:404:ASP:HB2	12:5a:407:GLU:OE1	2.16	0.45
47:6A:545:ASP:O	47:6A:548:ALA:N	2.50	0.45
47:6A:848:THR:HG23	47:6A:866:LEU:HD21	1.97	0.45
47:6A:1014:GLU:CA	47:6A:1017:LYS:HG2	2.45	0.45
47:6B:181:ARG:NH1	47:6B:182:GLN:HG3	2.31	0.45
47:6B:545:ASP:O	47:6B:548:ALA:N	2.50	0.45
47:6B:560:ILE:CD1	47:6B:1447:GLU:HG3	2.46	0.45
47:6B:848:THR:HG23	47:6B:866:LEU:HD21	1.97	0.45
3:6D:189:LEU:H	3:6D:189:LEU:HD23	1.81	0.45
3:6D:682:LEU:HB3	3:6D:754:PHE:HB3	1.99	0.45
3:6D:899:LEU:HD21	3:6D:905:PRO:CB	2.46	0.45
48:6F:380:ALA:O	48:6F:384:LEU:HG	2.15	0.45
48:6F:711:ALA:HB3	48:6F:771:HIS:CD2	2.52	0.45
49:6I:84:SER:HB2	49:6I:416:ARG:NH2	2.32	0.45
49:6J:84:SER:HB2	49:6J:416:ARG:NH2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6J:245:ASP:N	49:6J:245:ASP:OD1	2.50	0.45
51:6M:1267:VAL:O	51:6M:1323:ASP:HB2	2.15	0.45
51:6M:2260:ALA:C	51:6M:2262:ASP:H	2.25	0.45
51:6N:2260:ALA:C	51:6N:2262:ASP:H	2.25	0.45
12:6c:178:THR:HG22	12:6c:181:GLU:HG3	1.97	0.45
12:6e:210:ILE:HG22	12:6e:297:LYS:O	2.16	0.45
12:7a:272:PRO:HD3	12:7a:364:SER:HA	1.97	0.45
12:7c:11:GLN:NE2	13:7d:246:GLY:O	2.49	0.45
12:7c:173:PRO:HA	12:7c:380:ARG:HD2	1.98	0.45
13:7d:64:ARG:NH1	13:7d:129:CYS:HB3	2.31	0.45
13:7f:12:ALA:HB2	54:7f:501:GTP:C8	2.51	0.45
12:8a:103:LYS:HG2	12:8a:401:GLU:OE2	2.16	0.45
12:8a:139:LEU:HD22	12:8a:188:SER:HB2	1.98	0.45
13:8b:12:ALA:HB2	54:8b:501:GTP:C8	2.51	0.45
13:8b:248:LEU:HD23	13:8b:248:LEU:HA	1.79	0.45
13:8d:349:THR:OG1	13:8d:350:GLY:N	2.49	0.45
13:8f:349:THR:OG1	13:8f:350:GLY:N	2.49	0.45
12:8g:50:TYR:CE2	12:8g:241:ARG:HD3	2.51	0.45
12:8g:232:VAL:HG22	12:8g:270:PHE:HB2	1.98	0.45
13:8h:223:THR:HG23	13:8h:225:THR:HG23	1.97	0.45
12:9a:3:GLU:HB3	12:9a:62:ARG:NH2	2.31	0.45
12:9a:232:VAL:HG22	12:9a:270:PHE:HB2	1.99	0.45
12:9a:374:ILE:HD11	12:9a:422:TYR:CZ	2.51	0.45
13:9b:12:ALA:HB2	54:9b:501:GTP:C8	2.51	0.45
12:9c:21:TRP:CZ3	12:9c:61:PRO:HB3	2.51	0.45
12:9c:174:LYS:HB3	12:9c:174:LYS:HE3	1.73	0.45
13:9f:223:THR:HG23	13:9f:225:THR:HG23	1.98	0.45
12:9g:177:ASP:N	12:9g:181:GLU:OE2	2.49	0.45
12:9g:232:VAL:HG22	12:9g:270:PHE:HB2	1.98	0.45
13:9h:195:LEU:HD12	13:9h:266:HIS:HE1	1.81	0.45
12:Ac:178:THR:OG1	13:Ad:258:ASN:OD1	2.29	0.45
12:Ae:232:VAL:HG22	12:Ae:270:PHE:HB2	1.99	0.45
12:Ag:165:LEU:HD11	12:Ag:200:MET:HE2	1.99	0.45
13:Ah:195:LEU:HD12	13:Ah:266:HIS:HE1	1.81	0.45
13:Bb:12:ALA:HB2	54:Bb:501:GTP:C8	2.51	0.45
13:Bb:15:GLN:HB3	13:Bb:228:ASN:ND2	2.31	0.45
12:Be:16:ILE:HD11	12:Be:229:ILE:HG21	1.97	0.45
12:Be:377:MET:HE2	12:Be:377:MET:HB2	1.59	0.45
13:Bf:15:GLN:HB3	13:Bf:228:ASN:ND2	2.31	0.45
13:Bf:175:PRO:O	13:Bf:394:LYS:NZ	2.46	0.45
13:Cb:175:PRO:HG3	13:Cb:390:ARG:NH2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Cc:246:LEU:HD13	54:Cc:501:GTP:C8	2.51	0.45
13:Cf:175:PRO:HG3	13:Cf:390:ARG:NH2	2.31	0.45
13:Cf:397:LEU:HD12	12:Cg:431:GLU:OE2	2.16	0.45
12:Cg:245:GLN:HB3	12:Cg:353:VAL:HG13	1.98	0.45
13:Db:107:HIS:O	13:Db:112:LYS:NZ	2.41	0.45
12:Dc:232:VAL:HG22	12:Dc:270:PHE:HB2	1.99	0.45
13:Dd:30:ILE:HA	13:Dd:36:MET:HB3	1.98	0.45
13:Dd:185:TYR:OH	13:Dd:398:MET:HB3	2.16	0.45
13:Dd:195:LEU:HD12	13:Dd:266:HIS:HE1	1.81	0.45
13:Df:30:ILE:HA	13:Df:36:MET:HB3	1.98	0.45
13:Df:185:TYR:OH	13:Df:398:MET:HB3	2.16	0.45
13:Df:195:LEU:HD12	13:Df:266:HIS:HE1	1.81	0.45
13:Dh:130:THR:OG1	13:Dh:131:GLY:N	2.49	0.45
13:Dh:155:GLU:O	13:Dh:159:VAL:HG23	2.16	0.45
13:Dh:175:PRO:HG3	13:Dh:390:ARG:NH2	2.31	0.45
1:0H:117:LEU:O	1:0H:121:VAL:HG23	2.17	0.45
1:0H:227:ARG:HG3	1:0H:267:VAL:HG22	1.97	0.45
1:0H:302:ILE:HG23	1:0H:310:ARG:HD2	1.97	0.45
1:0W:21:VAL:CG1	1:0W:49:LEU:HD21	2.46	0.45
1:0K:30:ASN:O	1:0K:34:ILE:HG13	2.16	0.45
1:0A:37:LEU:HG	1:0A:42:ALA:CB	2.46	0.45
1:0A:90:TYR:O	1:0A:94:GLU:HG3	2.15	0.45
1:0D:67:ARG:HA	1:0D:70:ASN:ND2	2.32	0.45
1:0D:217:LEU:CB	1:0D:229:VAL:HG11	2.47	0.45
1:0E:256:ILE:HG23	1:0E:271:SER:HB2	1.98	0.45
1:0G:169:VAL:N	1:0G:170:PRO:HD2	2.31	0.45
1:0P:65:LEU:CD2	1:0P:84:ILE:HG21	2.46	0.45
1:0R:229:VAL:O	1:0R:233:LEU:HG	2.16	0.45
1:0R:240:SER:HB3	1:0R:243:LEU:HG	1.97	0.45
1:0U:65:LEU:CD2	1:0U:84:ILE:HG21	2.42	0.45
1:0V:290:VAL:HG21	1:0V:327:LEU:HD22	1.97	0.45
1:0X:282:THR:HG21	1:0X:285:LEU:HD13	1.98	0.45
1:0Y:70:ASN:HA	1:0Y:113:HIS:NE2	2.31	0.45
1:0Y:218:VAL:HG12	1:0Y:255:LYS:HB3	1.97	0.45
1:1A:37:LEU:HB3	1:1A:42:ALA:HB3	1.98	0.45
1:1A:407:VAL:HG13	1:1A:411:LEU:HD13	1.98	0.45
1:1B:253:PHE:CG	1:1B:256:ILE:HD12	2.52	0.45
1:1B:304:ASP:O	1:1B:305:SER:OG	2.32	0.45
1:1C:122:ILE:HD13	1:1C:127:LEU:HD21	1.99	0.45
2:1D:337:CYS:O	2:1D:341:VAL:HG23	2.17	0.45
2:1E:236:VAL:HG13	2:1E:253:ALA:HB1	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1I:813:VAL:HG13	3:1I:853:LEU:HD23	1.98	0.45
4:1J:67:LEU:HB2	4:1J:177:GLU:O	2.15	0.45
4:1J:194:LEU:HG	4:1J:272:TYR:HE2	1.81	0.45
5:1L:186:VAL:N	5:1L:200:LEU:O	2.49	0.45
5:1M:367:GLY:O	5:1M:460:LEU:HD13	2.16	0.45
5:1M:517:ARG:HH11	13:1f:414:GLU:HG2	1.81	0.45
5:1M:552:HIS:HA	5:1M:555:LYS:HE2	1.99	0.45
6:1N:314:PRO:HB2	6:1N:318:VAL:HG22	1.98	0.45
7:1O:1336:ASP:C	7:1O:1338:TRP:H	2.24	0.45
10:1R:80:GLU:OE2	10:1R:80:GLU:N	2.45	0.45
10:1R:336:PRO:HD2	32:3J:71:VAL:O	2.15	0.45
10:1S:368:VAL:HB	12:Bg:332:ASN:CG	2.41	0.45
12:1a:314:SER:OG	12:1a:368:ILE:HB	2.16	0.45
13:1d:185:TYR:OH	13:1d:398:MET:HB3	2.16	0.45
13:1d:218:ASP:HB3	14:2F:39:PRO:HG3	1.97	0.45
12:1g:173:PRO:HA	12:1g:380:ARG:HD2	1.97	0.45
14:2F:43:THR:HB	13:Db:46:ASP:O	2.16	0.45
14:2G:144:LYS:HA	12:Ae:78:SER:O	2.16	0.45
16:2I:65:UNK:CB	12:Bc:94:GLN:HE22	2.29	0.45
24:2T:204:GLU:O	24:2T:208:ARG:HG3	2.16	0.45
24:2V:151:PHE:CE2	12:Dg:332:ASN:HB2	2.51	0.45
24:2V:161:HIS:O	24:2V:164:VAL:HG12	2.16	0.45
12:2c:39:ASP:N	12:2c:39:ASP:OD1	2.47	0.45
30:3G:546:GLU:HG2	31:3I:392:VAL:HG22	1.98	0.45
31:3H:172:LEU:HD23	31:3H:172:LEU:HA	1.65	0.45
32:3J:68:ILE:HD13	32:3J:125:VAL:HG21	1.97	0.45
32:3J:362:PRO:CG	12:9a:383:GLU:HG2	2.46	0.45
34:3M:252:GLU:C	34:3M:256:GLU:OE1	2.59	0.45
34:3M:263:LYS:O	34:3M:267:GLU:HG2	2.17	0.45
34:3M:270:ILE:HD13	34:3M:273:ARG:NH2	2.31	0.45
34:3M:387:VAL:O	34:3M:391:GLU:HG2	2.16	0.45
34:3O:366:VAL:HG22	34:3Y:356:PHE:CZ	2.51	0.45
34:3P:93:VAL:HG13	34:3P:397:LEU:HB3	1.97	0.45
34:3P:270:ILE:O	34:3P:274:ILE:HG23	2.16	0.45
34:3U:270:ILE:O	34:3U:274:ILE:HG23	2.17	0.45
34:3U:312:TRP:HH2	34:3U:415:TYR:HA	1.79	0.45
34:3U:433:TYR:CZ	34:3U:438:ILE:HD11	2.51	0.45
34:3W:349:LEU:HD23	34:3W:382:LEU:CD1	2.47	0.45
34:3Z:455:THR:C	34:3Z:457:ALA:H	2.24	0.45
13:3d:155:GLU:O	13:3d:159:VAL:HG23	2.16	0.45
13:3d:175:PRO:HG3	13:3d:390:ARG:NH2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3f:155:GLU:O	13:3f:159:VAL:HG23	2.16	0.45
13:3f:175:PRO:HG3	13:3f:390:ARG:NH2	2.31	0.45
12:3g:330:MET:HG3	12:3g:351:SER:OG	2.17	0.45
13:3h:195:LEU:HD12	13:3h:266:HIS:HE1	1.81	0.45
34:4B:386:HIS:CE1	34:4B:390:LEU:HD11	2.51	0.45
35:4C:531:GLU:OE2	35:4C:784:LEU:HD23	2.16	0.45
36:4D:49:LEU:HD11	36:4D:161:LEU:HG	1.97	0.45
36:4D:64:GLY:N	36:4D:90:TYR:O	2.50	0.45
37:4E:522:VAL:HG23	37:4E:680:VAL:HG21	1.99	0.45
37:4E:581:LEU:CA	43:5L:32:LEU:HA	2.40	0.45
37:4F:616:TRP:HZ2	37:4F:1338:PHE:CA	2.28	0.45
37:4F:972:PHE:CE2	37:4F:974:VAL:CG2	2.99	0.45
37:4F:972:PHE:CE2	38:4N:44:LEU:HD13	2.50	0.45
37:4F:1101:LEU:CD1	37:4F:1132:PRO:HG3	2.46	0.45
37:4G:853:VAL:C	37:4G:854:TYR:CD2	2.94	0.45
37:4G:935:ARG:CZ	38:4L:49:ILE:CD1	2.94	0.45
37:4G:1073:LEU:CD2	37:4G:1379:ALA:HB2	2.39	0.45
37:4G:1082:LEU:CD2	37:4G:1101:LEU:HD21	2.44	0.45
37:4G:1297:THR:O	37:4G:1304:MET:HA	2.16	0.45
37:4G:1331:TRP:CH2	37:4G:1344:SER:O	2.69	0.45
37:4G:1338:PHE:CD2	38:4L:32:GLU:OE1	2.69	0.45
37:4H:969:LEU:HD22	37:4H:1371:LEU:HD21	1.97	0.45
38:4I:49:ILE:HD12	38:4I:49:ILE:H	1.81	0.45
38:4M:73:PRO:CD	38:4M:76:PRO:HG3	2.34	0.45
38:4N:57:VAL:O	38:4N:58:VAL:C	2.60	0.45
40:4T:42:GLY:HA2	40:4T:78:ARG:HH22	1.82	0.45
40:4T:278:GLU:CD	40:4T:692:ARG:HD2	2.41	0.45
40:4U:42:GLY:HA2	40:4U:78:ARG:HH22	1.82	0.45
40:4V:696:SER:HB3	40:4V:818:MET:O	2.17	0.45
13:4d:64:ARG:NH1	13:4d:129:CYS:HB3	2.31	0.45
13:4d:195:LEU:HD12	13:4d:266:HIS:HE1	1.81	0.45
12:4g:145:SER:HB2	12:4g:188:SER:OG	2.16	0.45
42:5G:136:HIS:CB	42:5G:139:LEU:HD12	2.47	0.45
43:5J:32:LEU:HA	43:5J:32:LEU:HD12	1.50	0.45
43:5K:35:LYS:N	43:5K:35:LYS:CD	2.75	0.45
43:5K:161:ASP:OD1	43:5K:161:ASP:N	2.29	0.45
44:5Q:62:ASP:OD2	44:5Q:62:ASP:N	2.49	0.45
44:5T:62:ASP:OD1	44:5T:63:GLY:N	2.49	0.45
44:5T:110:ARG:HG3	44:5T:125:VAL:HG11	1.98	0.45
12:5c:99:ASN:HA	12:5c:142:GLY:H	1.81	0.45
12:5e:3:GLU:HB3	12:5e:62:ARG:NH2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5f:349:THR:OG1	13:5f:350:GLY:N	2.49	0.45
13:5h:64:ARG:NH1	13:5h:129:CYS:HB3	2.31	0.45
13:5h:185:TYR:OH	13:5h:398:MET:HB3	2.16	0.45
47:6A:1625:VAL:HG11	47:6A:1754:LEU:HD22	1.98	0.45
47:6A:1628:LEU:HD23	47:6A:1628:LEU:HA	1.82	0.45
47:6B:1798:ASN:O	47:6B:1799:ASN:C	2.58	0.45
48:6E:237:VAL:HG12	48:6E:262:ASN:HD21	1.80	0.45
48:6E:711:ALA:HB3	48:6E:771:HIS:CD2	2.52	0.45
48:6E:1020:ILE:HA	48:6E:1026:THR:HG21	1.99	0.45
49:6G:193:ASN:ND2	49:6G:209:GLU:HB3	2.31	0.45
49:6H:84:SER:HB2	49:6H:416:ARG:NH2	2.32	0.45
50:6K:198:GLU:OE1	50:6K:219:GLU:HB2	2.16	0.45
50:6L:14:THR:HB	50:6L:208:GLY:O	2.17	0.45
50:6L:198:GLU:CD	50:6L:219:GLU:HB2	2.41	0.45
12:6c:232:VAL:HG22	12:6c:270:PHE:HB2	1.98	0.45
12:6g:68:LEU:HD23	12:6g:143:THR:HG22	1.99	0.45
12:7a:3:GLU:HB3	12:7a:62:ARG:HH21	1.80	0.45
12:7c:232:VAL:HG22	12:7c:270:PHE:HB2	1.97	0.45
12:7c:285:THR:HG23	12:7c:288:GLU:H	1.81	0.45
13:7d:15:GLN:HB3	13:7d:228:ASN:ND2	2.31	0.45
12:7e:103:LYS:HG3	12:7e:401:GLU:HG2	1.98	0.45
12:7e:329:GLN:O	12:7e:333:VAL:HG23	2.16	0.45
12:7e:330:MET:SD	12:7e:349:VAL:HG11	2.56	0.45
13:7f:15:GLN:HB3	13:7f:228:ASN:ND2	2.31	0.45
13:7f:179:THR:O	12:7g:350:LYS:HD2	2.16	0.45
12:8a:31:ASP:HB2	12:8a:32:PRO:HD2	1.97	0.45
12:8c:27:GLU:OE2	12:8c:318:ARG:NH2	2.40	0.45
13:8d:64:ARG:NH1	13:8d:129:CYS:HB3	2.31	0.45
13:9b:175:PRO:HG3	13:9b:390:ARG:NH2	2.31	0.45
12:9c:207:LEU:HB3	12:9c:225:LEU:HD22	1.98	0.45
12:9e:116:VAL:O	12:9e:120:VAL:HG13	2.16	0.45
13:9f:64:ARG:NH1	13:9f:129:CYS:HB3	2.31	0.45
12:9g:21:TRP:CZ3	12:9g:61:PRO:HB3	2.51	0.45
12:9g:317:PHE:HB3	12:9g:321:MET:CE	2.44	0.45
13:Ab:21:TRP:HZ3	13:Ab:52:PHE:HB3	1.82	0.45
13:Af:21:TRP:HZ3	13:Af:52:PHE:HB3	1.82	0.45
13:Af:195:LEU:HD12	13:Af:266:HIS:HE1	1.81	0.45
13:Ah:64:ARG:NH1	13:Ah:129:CYS:HB3	2.31	0.45
13:Bb:21:TRP:HZ3	13:Bb:52:PHE:HB3	1.82	0.45
13:Bb:130:THR:OG1	13:Bb:131:GLY:N	2.49	0.45
13:Bd:130:THR:OG1	13:Bd:131:GLY:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Be:42:LEU:HD13	12:Be:356:ILE:HD11	1.99	0.45
13:Bh:191:THR:HA	13:Bh:194:LEU:HG	1.98	0.45
13:Bh:248:LEU:HD23	13:Bh:248:LEU:HA	1.79	0.45
13:Bh:349:THR:OG1	13:Bh:350:GLY:N	2.49	0.45
12:Ca:60:VAL:HG11	12:Ca:86:ARG:CZ	2.46	0.45
13:Cd:15:GLN:HB3	13:Cd:228:ASN:ND2	2.31	0.45
12:Cg:50:TYR:CE2	12:Cg:241:ARG:HD3	2.51	0.45
12:Cg:107:THR:CG2	12:Cg:401:GLU:HB3	2.45	0.45
13:Df:175:PRO:O	13:Df:394:LYS:NZ	2.46	0.45
13:Df:246:GLY:N	13:Df:249:ASN:OD1	2.43	0.45
13:Dh:185:TYR:OH	13:Dh:398:MET:HB3	2.16	0.45
13:Dh:349:THR:OG1	13:Dh:350:GLY:N	2.49	0.45
1:0I:338:PRO:HB2	1:0I:339:PRO:HD3	1.99	0.45
1:0K:37:LEU:HD13	1:0K:68:LEU:HD21	1.98	0.45
1:0K:248:VAL:HA	1:0K:253:PHE:HE2	1.81	0.45
1:0C:164:VAL:O	1:0C:167:GLY:HA2	2.17	0.45
1:0D:290:VAL:HA	1:0D:295:VAL:HG22	1.97	0.45
1:0D:417:LEU:HD13	1:0D:435:GLU:HA	1.99	0.45
1:0L:56:SER:HA	1:0L:59:GLN:HG2	1.99	0.45
1:0M:279:ALA:HB1	1:0M:320:ILE:HG22	1.99	0.45
1:0S:411:LEU:HG	1:0S:412:THR:O	2.17	0.45
1:0U:241:VAL:HG22	1:0U:281:HIS:HD2	1.81	0.45
1:0U:256:ILE:HG23	1:0U:271:SER:HB2	1.98	0.45
1:0V:15:LYS:O	1:0V:18:VAL:HG22	2.17	0.45
1:0X:167:GLY:C	1:0X:169:VAL:H	2.21	0.45
1:0Y:348:PRO:HA	1:0Y:353:LYS:HE3	1.98	0.45
1:0Z:245:GLU:HA	1:0Z:248:VAL:HG22	1.98	0.45
1:0Z:306:ALA:HB3	1:0Z:309:ASN:ND2	2.31	0.45
1:0Z:399:LYS:HZ2	1:0Z:402:ARG:NH2	2.14	0.45
2:1E:262:SER:O	2:1E:306:LYS:HD2	2.16	0.45
2:1F:112:MET:HG2	2:1F:153:GLN:NE2	2.31	0.45
3:1H:614:LEU:HD21	3:1H:656:TYR:CE1	2.51	0.45
3:1H:815:ASP:HB2	3:1H:818:SER:OG	2.17	0.45
3:1H:835:LEU:HG	3:1H:846:VAL:CG1	2.46	0.45
3:1I:279:LEU:HD21	3:1I:500:LEU:HD12	1.98	0.45
5:1M:442:MET:HG2	5:1M:474:ARG:HH21	1.82	0.45
6:1N:661:ALA:HB3	6:1N:731:GLN:HE22	1.82	0.45
6:1N:813:LEU:HD11	6:1N:820:PRO:HD3	1.99	0.45
6:1N:2247:LEU:HD11	6:1N:2273:LEU:HD21	1.98	0.45
7:1O:2159:GLU:OE1	7:1O:2504:ARG:NH2	2.33	0.45
10:1R:364:PHE:HE2	10:1R:366:LYS:HG2	1.76	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1S:378:LEU:CD2	13:Bf:215:ARG:HA	2.46	0.45
12:1a:284:LEU:HD23	12:1a:362:LYS:HB2	1.97	0.45
13:1b:155:GLU:O	13:1b:159:VAL:HG23	2.16	0.45
13:1b:185:TYR:OH	13:1b:398:MET:HB3	2.16	0.45
13:1d:68:LEU:HD12	13:1d:93:ILE:HB	1.99	0.45
13:1d:191:THR:HA	13:1d:194:LEU:HG	1.98	0.45
12:1e:161:ASP:O	12:1e:251:ARG:NH2	2.49	0.45
13:1h:185:TYR:OH	13:1h:398:MET:HB3	2.16	0.45
14:2F:41:TRP:CZ2	12:Da:77:ARG:NH1	2.82	0.45
12:2c:311:LEU:HD23	12:2c:342:VAL:HG21	1.97	0.45
12:2g:391:ARG:HG2	13:2h:262:TYR:OH	2.16	0.45
13:2h:212:ILE:O	13:2h:216:SER:OG	2.25	0.45
30:3F:615:GLU:HA	30:3F:618:LYS:CE	2.46	0.45
31:3H:144:ILE:HD12	31:3H:179:LEU:HD22	1.96	0.45
31:3I:197:GLU:O	31:3I:201:ARG:HD3	2.16	0.45
33:3L:174:VAL:O	33:3L:175:ALA:O	2.33	0.45
34:3M:254:MET:O	34:3M:258:TYR:HD1	1.99	0.45
34:3O:493:LYS:O	34:3O:497:MET:HG2	2.17	0.45
34:3P:122:GLN:HE22	34:3P:372:GLN:HG3	1.82	0.45
34:3P:312:TRP:CH2	34:3P:316:GLN:HG3	2.51	0.45
34:3Q:60:TYR:HE1	34:3Q:298:ALA:HB1	1.81	0.45
34:3R:507:VAL:HG22	34:3W:463:HIS:CD2	2.52	0.45
34:3T:85:TYR:O	34:3T:89:ILE:HG13	2.17	0.45
34:3X:258:TYR:CD1	34:3X:474:TRP:HD1	2.35	0.45
34:3X:455:THR:C	34:3X:457:ALA:H	2.25	0.45
34:3Y:486:ARG:HB2	37:4G:1795:ARG:NH1	2.32	0.45
13:3b:175:PRO:HG3	13:3b:390:ARG:NH2	2.31	0.45
13:3h:155:GLU:O	13:3h:159:VAL:HG23	2.16	0.45
34:4A:276:GLU:HG3	34:4A:452:HIS:CD2	2.52	0.45
35:4C:386:LEU:HD23	35:4C:386:LEU:C	2.42	0.45
35:4C:897:THR:HG21	35:4C:900:ILE:HD13	1.98	0.45
36:4D:218:ARG:HH12	36:4D:245:HIS:HD2	1.64	0.45
37:4E:586:PHE:CD2	43:5L:10:LEU:CB	2.99	0.45
37:4E:1302:ASN:ND2	43:5L:121:PHE:CE2	2.84	0.45
37:4F:796:PRO:HD2	37:4F:815:ALA:HB1	1.99	0.45
37:4F:1083:ILE:HD12	38:4N:34:ALA:O	2.16	0.45
37:4F:1138:VAL:C	37:4F:1139:THR:HG1	2.17	0.45
37:4F:1175:PRO:HA	37:4F:1181:ALA:HB2	1.98	0.45
37:4F:1335:MET:HG3	37:4F:1337:GLY:N	2.32	0.45
37:4G:431:ALA:HA	37:4G:433:LYS:N	2.32	0.45
37:4G:958:LEU:HD22	38:4L:46:ALA:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1072:ALA:C	38:4M:41:LYS:HZ1	2.20	0.45
37:4H:1334:GLU:HB3	37:4H:1340:PRO:HB3	1.99	0.45
38:4L:33:LYS:HA	38:4L:33:LYS:CE	2.32	0.45
39:4S:56:PHE:O	39:4S:59:THR:OG1	2.32	0.45
40:4T:293:HIS:HE1	40:4T:301:LEU:O	1.99	0.45
40:4U:293:HIS:HE1	40:4U:301:LEU:O	1.99	0.45
40:4V:726:PRO:HA	40:4V:818:MET:HE2	1.97	0.45
12:4e:176:SER:HB2	12:4e:181:GLU:OE1	2.16	0.45
13:4f:64:ARG:NH1	13:4f:129:CYS:HB3	2.31	0.45
13:4h:195:LEU:HD12	13:4h:266:HIS:HE1	1.81	0.45
42:5E:136:HIS:CB	42:5E:139:LEU:HD12	2.47	0.45
42:5H:133:LEU:CD1	42:5H:140:TYR:CD1	2.98	0.45
42:5H:134:LEU:HA	42:5H:134:LEU:HD23	1.45	0.45
43:5J:142:TYR:O	43:5J:145:SER:HB2	2.17	0.45
43:5K:158:HIS:ND1	43:5K:160:SER:HB3	2.31	0.45
43:5L:133:ASP:HB2	43:5L:137:ARG:HH11	1.77	0.45
44:5S:86:GLU:HG3	44:5S:150:THR:HB	1.97	0.45
44:5S:110:ARG:HG3	44:5S:125:VAL:HG11	1.99	0.45
44:5T:56:ILE:HA	44:5T:59:VAL:HG12	1.98	0.45
13:5b:349:THR:OG1	13:5b:350:GLY:N	2.49	0.45
13:5f:223:THR:HG23	13:5f:225:THR:HG23	1.98	0.45
47:6A:181:ARG:NH1	47:6A:182:GLN:HG3	2.31	0.45
47:6A:791:SER:OG	47:6A:792:GLU:N	2.49	0.45
47:6A:1250:ARG:HG2	47:6A:1499:ASP:CG	2.42	0.45
47:6B:1250:ARG:HG2	47:6B:1499:ASP:CG	2.42	0.45
47:6B:1516:LEU:HG	47:6B:1525:LEU:HD23	1.97	0.45
3:6D:50:PHE:CE2	3:6D:86:THR:HB	2.51	0.45
3:6D:679:GLU:CB	3:6D:683:ARG:HH12	2.18	0.45
3:6D:689:PHE:HE2	3:6D:758:CYS:HB3	1.82	0.45
48:6F:1020:ILE:HA	48:6F:1026:THR:CG2	2.46	0.45
49:6G:33:SER:O	49:6G:37:LYS:HG2	2.15	0.45
49:6G:84:SER:HB2	49:6G:416:ARG:NH2	2.32	0.45
49:6G:245:ASP:N	49:6G:245:ASP:OD1	2.50	0.45
49:6G:252:GLU:HG3	49:6G:447:ARG:HH21	1.82	0.45
49:6G:368:ASN:OD1	49:6G:370:VAL:HG12	2.15	0.45
49:6H:193:ASN:ND2	49:6H:209:GLU:HB3	2.31	0.45
49:6H:252:GLU:HG3	49:6H:447:ARG:HH21	1.82	0.45
49:6J:107:THR:HA	49:6J:110:VAL:HG22	1.99	0.45
49:6J:193:ASN:ND2	49:6J:209:GLU:HB3	2.31	0.45
50:6K:46:THR:OG1	50:6K:49:GLU:O	2.35	0.45
50:6K:407:LEU:HG	50:6K:492:LEU:HG	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:6L:46:THR:OG1	50:6L:49:GLU:O	2.35	0.45
51:6M:1322:LEU:HD12	51:6M:1322:LEU:N	2.31	0.45
51:6N:1723:PRO:HD3	51:6N:1790:MET:HE2	1.98	0.45
12:6a:170:VAL:HG21	12:6a:201:VAL:HG23	1.98	0.45
12:6c:317:PHE:HB3	12:6c:321:MET:CE	2.45	0.45
13:6d:349:THR:OG1	13:6d:350:GLY:N	2.49	0.45
12:6e:86:ARG:NH2	12:7e:281:TYR:HB3	2.31	0.45
12:6g:139:LEU:HD22	12:6g:188:SER:HB3	1.98	0.45
13:6h:175:PRO:O	13:6h:394:LYS:NZ	2.46	0.45
12:7c:141:GLY:O	12:7c:145:SER:OG	2.26	0.45
13:7h:21:TRP:HZ3	13:7h:52:PHE:HB3	1.82	0.45
13:8d:12:ALA:HB2	54:8d:501:GTP:C8	2.51	0.45
13:8f:12:ALA:HB2	54:8f:501:GTP:C8	2.51	0.45
13:8f:248:LEU:HD23	13:8f:248:LEU:HA	1.79	0.45
12:9a:386:THR:OG1	12:9a:387:ALA:N	2.50	0.45
13:9b:64:ARG:NH1	13:9b:129:CYS:HB3	2.31	0.45
13:9b:155:GLU:O	13:9b:159:VAL:HG23	2.16	0.45
13:9d:68:LEU:HD12	13:9d:93:ILE:HB	1.99	0.45
12:9e:207:LEU:CD1	12:9e:229:ILE:HD11	2.46	0.45
13:9f:90:GLU:OE1	13:9f:121:ARG:NE	2.44	0.45
13:9f:195:LEU:HD12	13:9f:266:HIS:HE1	1.81	0.45
12:9g:175:VAL:HG21	13:9h:333:ALA:HB2	1.97	0.45
13:9h:107:HIS:O	13:9h:112:LYS:NZ	2.41	0.45
13:Ab:406:HIS:CD2	12:Ac:261:PRO:HD3	2.51	0.45
12:Ac:403:MET:HE2	12:Ac:408:PHE:CE1	2.51	0.45
13:Ad:21:TRP:HZ3	13:Ad:52:PHE:HB3	1.82	0.45
12:Ae:42:LEU:HD13	12:Ae:356:ILE:HD11	1.98	0.45
12:Ae:314:SER:OG	12:Ae:368:ILE:HB	2.16	0.45
12:Ae:406:MET:HE3	12:Ae:406:MET:HB3	1.92	0.45
13:Ah:68:LEU:HD12	13:Ah:93:ILE:HB	1.99	0.45
13:Bd:21:TRP:HZ3	13:Bd:52:PHE:HB3	1.82	0.45
13:Bd:175:PRO:HG3	13:Bd:390:ARG:NH2	2.31	0.45
13:Bd:185:TYR:OH	13:Bd:398:MET:HB3	2.16	0.45
12:Be:318:ARG:HB3	12:Be:357:PRO:HA	1.98	0.45
12:Be:394:PHE:CD1	13:Bf:261:PRO:HA	2.52	0.45
13:Bf:185:TYR:OH	13:Bf:398:MET:HB3	2.16	0.45
12:Bg:236:ILE:HG12	12:Bg:368:ILE:HD11	1.99	0.45
13:Bh:15:GLN:HB3	13:Bh:228:ASN:ND2	2.31	0.45
13:Bh:21:TRP:HZ3	13:Bh:52:PHE:HB3	1.82	0.45
13:Bh:175:PRO:HG3	13:Bh:390:ARG:NH2	2.31	0.45
12:Ca:91:VAL:HG23	12:Ca:91:VAL:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Cb:15:GLN:HB3	13:Cb:228:ASN:ND2	2.31	0.45
13:Cd:175:PRO:HG3	13:Cd:390:ARG:NH2	2.31	0.45
13:Cf:185:TYR:OH	13:Cf:398:MET:HB3	2.16	0.45
13:Ch:15:GLN:HB3	13:Ch:228:ASN:ND2	2.31	0.45
13:Ch:185:TYR:OH	13:Ch:398:MET:HB3	2.16	0.45
12:Da:21:TRP:CD1	12:Da:85:PHE:HE1	2.35	0.45
12:Da:284:LEU:CD1	12:Da:362:LYS:HB2	2.47	0.45
13:Db:195:LEU:HD12	13:Db:266:HIS:HE1	1.81	0.45
12:De:42:LEU:HD13	12:De:356:ILE:HD11	1.99	0.45
13:Dh:273:ALA:N	13:Dh:375:VAL:O	2.48	0.45
1:0H:164:VAL:O	1:0H:167:GLY:HA2	2.16	0.45
1:0J:85:LEU:HD22	1:0J:107:LEU:HD23	1.98	0.45
1:0W:83:GLU:O	1:0W:86:PRO:HD2	2.16	0.45
1:0I:274:VAL:O	1:0I:278:VAL:HG23	2.17	0.45
1:0B:3:THR:HG22	1:0B:6:VAL:HG23	1.99	0.45
1:0C:153:ALA:O	1:0C:197:HIS:CD2	2.70	0.45
1:0C:230:CYS:HB3	1:0C:270:HIS:HB3	1.97	0.45
1:0D:72:SER:OG	1:0D:75:LEU:HG	2.15	0.45
1:0E:108:ARG:HD3	1:0E:147:TRP:HD1	1.74	0.45
1:0E:306:ALA:HB3	1:0E:309:ASN:ND2	2.32	0.45
1:0M:13:TYR:O	1:0M:17:ARG:HG3	2.16	0.45
1:0P:168:ALA:O	1:0P:172:LEU:HG	2.17	0.45
1:0R:107:LEU:HD22	1:0R:121:VAL:HG13	1.99	0.45
1:0S:318:GLY:HA3	1:0S:359:THR:HG22	1.99	0.45
1:0U:70:ASN:HA	1:0U:113:HIS:NE2	2.27	0.45
1:1A:210:ALA:O	1:1A:214:LEU:HG	2.15	0.45
1:1A:367:THR:CB	1:1A:370:HIS:CD2	2.97	0.45
1:1B:37:LEU:HG	1:1B:42:ALA:CB	2.47	0.45
1:1B:299:VAL:HG13	1:1B:336:ALA:HA	1.98	0.45
1:1C:235:GLN:O	1:1C:239:HIS:ND1	2.49	0.45
1:1C:248:VAL:HA	1:1C:253:PHE:CE2	2.52	0.45
2:1E:312:ALA:HB2	2:1E:350:TYR:CE2	2.52	0.45
2:1F:231:ASN:OD1	2:1F:234:PRO:HD2	2.17	0.45
2:1F:447:THR:C	2:1F:449:VAL:H	2.24	0.45
2:1G:193:VAL:HG22	2:1G:232:ALA:HB2	1.99	0.45
3:1H:994:GLN:OE1	47:6A:399:LYS:HD3	2.17	0.45
3:1I:812:VAL:CG1	3:1I:822:LEU:HD22	2.47	0.45
5:1L:29:LYS:HA	5:1L:63:LEU:HA	1.98	0.45
5:1L:442:MET:HG2	5:1L:474:ARG:HH21	1.82	0.45
5:1L:515:THR:O	5:1L:517:ARG:N	2.50	0.45
5:1M:515:THR:O	5:1M:517:ARG:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1P:775:ARG:HE	8:1P:777:VAL:HG22	1.81	0.45
12:1a:86:ARG:HD2	12:1a:89:ASN:CG	2.41	0.45
13:1b:191:THR:HA	13:1b:194:LEU:HG	1.98	0.45
12:1c:68:LEU:HD21	12:1c:147:MET:SD	2.57	0.45
13:1d:195:LEU:HD12	13:1d:266:HIS:HE1	1.81	0.45
12:1e:117:LEU:HA	12:1e:120:VAL:HG12	1.98	0.45
13:1f:155:GLU:O	13:1f:159:VAL:HG23	2.16	0.45
13:1h:68:LEU:HD12	13:1h:93:ILE:HB	1.99	0.45
14:2F:111:VAL:HG13	14:2F:112:GLY:N	2.32	0.45
14:2G:111:VAL:HG13	14:2G:112:GLY:N	2.32	0.45
25:2X:26:UNK:C	13:2f:264:ARG:HD3	2.47	0.45
12:2c:236:ILE:HG12	12:2c:368:ILE:HD11	1.97	0.45
12:2e:394:PHE:CE1	13:2f:261:PRO:HA	2.52	0.45
12:2g:3:GLU:OE1	12:2g:3:GLU:N	2.50	0.45
30:3G:542:MET:HA	30:3G:546:GLU:OE1	2.16	0.45
32:3J:67:ARG:HD3	32:3J:104:THR:CG2	2.46	0.45
33:3L:28:LEU:HB2	33:3L:47:LEU:HD13	1.99	0.45
33:3L:46:ASN:HA	33:3L:68:ARG:HH21	1.82	0.45
34:3M:437:GLY:O	34:3M:441:LEU:HD23	2.17	0.45
34:3M:480:ALA:HA	34:3M:483:GLU:CG	2.46	0.45
34:3N:195:THR:HG22	34:3N:195:THR:O	2.17	0.45
34:3N:250:ARG:O	34:3N:254:MET:HG2	2.16	0.45
34:3N:496:TYR:HA	34:3U:259:MET:CE	2.47	0.45
34:3O:251:LEU:HG	34:3O:252:GLU:OE2	2.17	0.45
34:3O:367:GLY:HA2	34:3Y:359:ARG:NH1	2.31	0.45
34:3P:312:TRP:HH2	34:3P:415:TYR:HA	1.79	0.45
34:3P:387:VAL:O	34:3P:391:GLU:HG2	2.17	0.45
34:3S:387:VAL:O	34:3S:391:GLU:HG2	2.16	0.45
34:3U:312:TRP:CH2	34:3U:316:GLN:HG3	2.51	0.45
34:3U:387:VAL:O	34:3U:391:GLU:HG2	2.17	0.45
34:3V:276:GLU:HG3	34:3V:452:HIS:CD2	2.52	0.45
34:3V:507:VAL:HG21	34:3X:463:HIS:HD2	1.82	0.45
12:3a:86:ARG:CD	12:4a:281:TYR:CD1	3.00	0.45
12:3a:182:PRO:O	12:3a:186:THR:HG22	2.17	0.45
13:3b:195:LEU:HD12	13:3b:266:HIS:HE1	1.81	0.45
12:3c:130:LEU:HB3	12:3c:162:ARG:HD3	1.97	0.45
13:3f:195:LEU:HD12	13:3f:266:HIS:HE1	1.81	0.45
13:3h:262:TYR:CD1	39:4Q:169:LEU:HD23	2.51	0.45
34:4B:401:VAL:HB	34:4B:402:PRO:HD3	1.99	0.45
35:4C:430:VAL:HG12	35:4C:432:GLU:O	2.16	0.45
35:4C:489:CYS:SG	35:4C:491:ASN:HB2	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4C:528:TRP:HB2	37:4E:1757:ARG:HD3	1.99	0.45
35:4C:1052:THR:HA	35:4C:1078:LEU:HD11	1.95	0.45
36:4D:243:ARG:HH12	36:4D:246:GLN:HB2	1.81	0.45
37:4E:589:PRO:CG	43:5L:20:HIS:CA	2.95	0.45
37:4E:589:PRO:HG2	43:5L:20:HIS:CA	2.46	0.45
37:4E:803:TYR:CE1	37:4E:805:PRO:HD2	2.52	0.45
37:4F:773:ARG:HD2	37:4F:1636:VAL:CG1	2.46	0.45
37:4F:854:TYR:CE1	38:4N:82:TYR:CE2	3.04	0.45
37:4F:1083:ILE:HG12	37:4F:1358:LEU:HD12	1.97	0.45
37:4G:773:ARG:HD2	37:4G:1636:VAL:CG1	2.46	0.45
37:4G:798:MET:HE2	37:4G:811:VAL:HG13	1.98	0.45
37:4G:969:LEU:HD12	37:4G:1074:GLN:N	2.32	0.45
37:4G:1075:VAL:HG21	37:4G:1352:PRO:CB	2.46	0.45
37:4G:1075:VAL:CG1	37:4G:1083:ILE:CB	2.94	0.45
37:4G:1525:LEU:HD11	37:4G:1611:ILE:HG22	1.98	0.45
37:4G:1697:SER:HB2	37:4G:1777:TYR:CZ	2.52	0.45
37:4G:1719:LEU:HB2	37:4G:1741:VAL:HG22	1.97	0.45
37:4H:951:ASN:O	37:4H:953:PRO:N	2.50	0.45
37:4H:1665:LYS:HG2	37:4H:1673:ALA:O	2.17	0.45
38:4I:40:LYS:NZ	38:4I:40:LYS:O	2.43	0.45
38:4J:38:VAL:HG13	38:4J:41:LYS:HB3	1.99	0.45
39:4Q:131:HIS:O	39:4Q:135:GLU:HG3	2.16	0.45
39:4S:93:ASN:O	39:4S:97:THR:HG23	2.16	0.45
40:4T:696:SER:HB3	40:4T:818:MET:O	2.17	0.45
40:4V:42:GLY:HA2	40:4V:78:ARG:HH22	1.82	0.45
40:4V:278:GLU:CD	40:4V:692:ARG:HD2	2.41	0.45
12:4e:145:SER:OG	12:4e:188:SER:HB2	2.17	0.45
13:4f:195:LEU:HD12	13:4f:266:HIS:HE1	1.81	0.45
12:4g:27:GLU:OE2	12:4g:318:ARG:NH2	2.38	0.45
42:5F:136:HIS:CB	42:5F:139:LEU:HD12	2.47	0.45
43:5J:101:LYS:O	43:5J:105:LEU:HG	2.17	0.45
43:5K:158:HIS:C	43:5K:160:SER:N	2.75	0.45
43:5L:101:LYS:O	43:5L:105:LEU:HG	2.17	0.45
13:5b:15:GLN:HB3	13:5b:228:ASN:ND2	2.31	0.45
13:5b:222:PRO:HD2	12:5c:324:LYS:HG2	1.98	0.45
12:5c:19:LYS:O	12:5c:23:VAL:HG13	2.17	0.45
13:5d:185:TYR:OH	13:5d:398:MET:HB3	2.16	0.45
13:5f:210:TYR:CE1	12:5g:324:LYS:HB2	2.52	0.45
12:5g:3:GLU:OE1	12:5g:3:GLU:N	2.50	0.45
12:5g:50:TYR:CE2	12:5g:241:ARG:HD3	2.50	0.45
47:6A:206:ALA:HA	47:6A:209:MET:HE3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:1026:ALA:HA	47:6A:1029:HIS:CD2	2.51	0.45
47:6A:1516:LEU:HG	47:6A:1525:LEU:HD23	1.97	0.45
47:6A:1596:TRP:HB2	47:6A:1599:THR:HG21	1.97	0.45
47:6A:1817:GLU:HG2	47:6A:1818:PRO:HD3	1.98	0.45
47:6A:1843:ARG:NH1	47:6A:1904:SER:OG	2.49	0.45
47:6B:153:GLU:CD	47:6B:157:ARG:HH12	2.25	0.45
47:6B:206:ALA:HA	47:6B:209:MET:HE3	1.99	0.45
47:6B:351:ARG:NH1	3:6D:525:ASN:HB2	2.31	0.45
47:6B:380:ARG:HD3	3:6D:809:TRP:HZ3	1.80	0.45
48:6E:189:LYS:HA	48:6E:210:LEU:HA	1.98	0.45
48:6F:76:THR:HG22	48:6F:98:ARG:HB3	1.99	0.45
49:6G:301:ASP:OD1	49:6G:303:ASP:N	2.42	0.45
49:6H:107:THR:HA	49:6H:110:VAL:HG22	1.99	0.45
49:6H:368:ASN:OD1	49:6H:370:VAL:HG12	2.15	0.45
49:6I:278:TYR:HB2	49:6I:281:LYS:HE2	1.98	0.45
49:6J:12:LEU:O	49:6J:16:VAL:HG23	2.16	0.45
49:6J:49:LYS:HE2	49:6J:69:TYR:CD2	2.52	0.45
50:6K:14:THR:HB	50:6K:208:GLY:O	2.17	0.45
50:6K:19:VAL:HG21	50:6K:129:MET:HB3	1.98	0.45
50:6K:50:ARG:HG2	50:6K:535:ASP:OD1	2.17	0.45
50:6K:198:GLU:CD	50:6K:219:GLU:HB2	2.41	0.45
50:6L:407:LEU:HG	50:6L:492:LEU:HG	1.99	0.45
51:6M:2152:SER:OG	51:6M:2285:LEU:HD23	2.17	0.45
51:6N:1634:THR:OG1	51:6N:1635:GLY:N	2.50	0.45
51:6N:2138:SER:HA	51:6N:2288:TRP:CD1	2.52	0.45
12:6a:25:SER:OG	12:6a:30:ILE:O	2.31	0.45
12:6a:87:PRO:HD3	12:7a:281:TYR:CE1	2.52	0.45
13:6b:349:THR:OG1	13:6b:350:GLY:N	2.49	0.45
13:6d:21:TRP:HZ3	13:6d:52:PHE:HB3	1.82	0.45
13:6f:175:PRO:O	13:6f:394:LYS:NZ	2.46	0.45
12:6g:3:GLU:OE1	12:6g:3:GLU:N	2.50	0.45
13:7b:175:PRO:HG3	13:7b:390:ARG:NH2	2.31	0.45
12:7c:284:LEU:CD2	12:7c:362:LYS:HB3	2.46	0.45
12:7e:232:VAL:HG22	12:7e:270:PHE:HB2	1.99	0.45
13:7f:21:TRP:HZ3	13:7f:52:PHE:HB3	1.82	0.45
13:7f:175:PRO:HG3	13:7f:390:ARG:NH2	2.31	0.45
12:7g:55:THR:HG23	12:8g:282:ARG:O	2.17	0.45
13:7h:175:PRO:O	13:7h:394:LYS:NZ	2.46	0.45
12:8c:55:THR:HG23	12:9c:283:ALA:HA	1.97	0.45
12:8g:317:PHE:HB3	12:8g:321:MET:CE	2.45	0.45
12:9a:240:LEU:HD21	12:9a:249:ASP:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:9b:21:TRP:HZ3	13:9b:52:PHE:HB3	1.82	0.45
13:9b:21:TRP:CZ3	13:9b:52:PHE:HB3	2.50	0.45
13:9b:191:THR:HA	13:9b:194:LEU:HG	1.98	0.45
12:9e:330:MET:SD	12:9e:349:VAL:HG11	2.56	0.45
13:9f:21:TRP:HZ3	13:9f:52:PHE:HB3	1.82	0.45
13:9f:175:PRO:HG3	13:9f:390:ARG:NH2	2.31	0.45
12:9g:104:GLY:O	12:9g:147:MET:HG3	2.16	0.45
12:9g:403:MET:HE3	12:9g:403:MET:HB2	1.80	0.45
13:9h:68:LEU:HD12	13:9h:93:ILE:HB	1.99	0.45
13:Ad:68:LEU:HD12	13:Ad:93:ILE:HB	1.99	0.45
12:Ae:60:VAL:HB	12:Ae:86:ARG:HD2	1.99	0.45
12:Ag:330:MET:HB3	12:Ag:349:VAL:HG11	1.99	0.45
13:Bf:12:ALA:HB2	54:Bf:501:GTP:C8	2.51	0.45
13:Bf:21:TRP:HZ3	13:Bf:52:PHE:HB3	1.82	0.45
12:Bg:55:THR:HG21	12:Cg:284:LEU:HD13	1.97	0.45
13:Cb:185:TYR:OH	13:Cb:398:MET:HB3	2.16	0.45
13:Cd:185:TYR:OH	13:Cd:398:MET:HB3	2.16	0.45
12:Ce:176:SER:HB2	12:Ce:181:GLU:OE1	2.17	0.45
13:Cf:15:GLN:HB3	13:Cf:228:ASN:ND2	2.31	0.45
12:Da:67:ASP:O	12:Da:92:PHE:HA	2.17	0.45
12:Da:73:MET:HE3	12:Da:92:PHE:HB3	1.98	0.45
12:Dc:50:TYR:CE2	12:Dc:241:ARG:HD3	2.51	0.45
12:Dc:236:ILE:HG12	12:Dc:368:ILE:HD11	1.99	0.45
12:Dc:317:PHE:HB3	12:Dc:321:MET:CE	2.45	0.45
13:Dd:246:GLY:N	13:Dd:249:ASN:OD1	2.43	0.45
12:De:330:MET:SD	12:De:349:VAL:HG11	2.56	0.45
1:0H:168:ALA:O	1:0H:172:LEU:HG	2.17	0.45
1:0H:236:ILE:HG22	1:0H:243:LEU:HB3	1.99	0.45
1:0A:6:VAL:CG1	1:0B:37:LEU:HD23	2.46	0.45
1:0B:175:CYS:HB2	1:0B:187:ALA:HB2	1.99	0.45
1:0B:214:LEU:HA	1:0B:217:LEU:HD13	1.99	0.45
1:0C:122:ILE:HG12	1:0C:127:LEU:HD21	1.98	0.45
1:0C:283:PRO:HG3	1:0C:323:PHE:CD1	2.52	0.45
1:0E:33:ASN:O	1:0E:37:LEU:HG	2.16	0.45
1:0E:147:TRP:NE1	1:0E:151:TYR:CE2	2.85	0.45
1:0E:290:VAL:HG22	1:0E:295:VAL:HG11	1.98	0.45
1:0F:248:VAL:HA	1:0F:253:PHE:HE2	1.82	0.45
1:0G:417:LEU:HD13	1:0G:435:GLU:HA	1.99	0.45
1:0M:368:PRO:HA	1:0M:410:LYS:HB3	1.98	0.45
1:0P:290:VAL:HG22	1:0P:295:VAL:HG11	1.99	0.45
1:0Q:101:GLN:HG3	1:0Q:141:VAL:HG12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0R:319:TYR:HA	47:6B:277:PHE:CZ	2.51	0.45
1:0U:63:LEU:HD21	5:1M:594:PRO:HG3	1.95	0.45
1:0V:86:PRO:HA	1:0V:89:VAL:HG22	1.99	0.45
1:0V:350:ASP:HA	1:0V:353:LYS:CG	2.36	0.45
1:0X:6:VAL:CG1	1:0Y:37:LEU:HD23	2.46	0.45
1:0Y:47:ARG:O	1:0Y:51:LEU:HG	2.16	0.45
1:0Z:83:GLU:C	1:0Z:86:PRO:HD2	2.42	0.45
1:0Z:164:VAL:O	1:0Z:167:GLY:HA2	2.17	0.45
1:1B:127:LEU:HD12	1:1B:162:GLN:NE2	2.32	0.45
1:1B:149:LEU:HD21	1:1B:172:LEU:HD11	1.99	0.45
1:1C:37:LEU:HD13	1:1C:68:LEU:HD21	1.98	0.45
2:1D:46:LEU:HD11	2:1D:53:LEU:HA	1.99	0.45
2:1E:176:HIS:O	2:1E:179:HIS:CE1	2.69	0.45
2:1E:212:THR:O	2:1E:216:THR:HG23	2.17	0.45
2:1E:232:ALA:O	2:1E:236:VAL:HG23	2.16	0.45
2:1E:511:ARG:C	2:1E:513:GLU:H	2.24	0.45
2:1G:367:VAL:HG11	2:1G:386:LEU:HD23	1.99	0.45
3:1H:279:LEU:HD21	3:1H:500:LEU:HD12	1.98	0.45
3:1H:671:SER:O	3:1H:673:PRO:HD3	2.17	0.45
3:1H:929:ALA:O	3:1H:933:THR:HG23	2.17	0.45
3:1H:949:LYS:HA	47:6A:385:GLU:OE2	2.17	0.45
3:1I:250:ARG:HD2	3:1I:256:THR:CG2	2.47	0.45
3:1I:671:SER:O	3:1I:673:PRO:HD3	2.17	0.45
5:1L:560:MET:HE2	13:1b:262:TYR:CG	2.52	0.45
5:1M:29:LYS:HA	5:1M:63:LEU:HA	1.98	0.45
5:1M:186:VAL:N	5:1M:200:LEU:O	2.49	0.45
5:1M:556:TYR:CG	12:1e:396:HIS:HB3	2.51	0.45
6:1N:477:LEU:HA	6:1N:477:LEU:HD23	1.79	0.45
6:1N:2167:ARG:CB	6:1N:2243:VAL:HG11	2.46	0.45
7:1O:48:ALA:O	7:1O:51:VAL:HG22	2.17	0.45
7:1O:236:VAL:HG23	7:1O:237:GLU:CD	2.41	0.45
7:1O:1192:ALA:O	7:1O:1194:ARG:NH1	2.49	0.45
7:1O:2717:CYS:HB2	7:1O:2812:ALA:HB2	1.98	0.45
8:1P:801:ILE:HG22	8:1P:802:THR:HG23	1.99	0.45
10:1R:123:THR:OG1	10:1R:132:LEU:HD22	2.17	0.45
12:1a:238:CYS:SG	12:1a:239:CYS:N	2.90	0.45
13:1b:68:LEU:HD12	13:1b:93:ILE:HB	1.99	0.45
12:1c:99:ASN:HA	12:1c:142:GLY:H	1.81	0.45
13:1f:185:TYR:OH	13:1f:398:MET:HB3	2.16	0.45
13:1f:191:THR:HA	13:1f:194:LEU:HG	1.98	0.45
22:2P:21:UNK:C	12:5g:128:ASP:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2T:141:ARG:HD2	13:Dh:297:GLU:HB2	1.97	0.45
24:2U:149:SER:HB3	13:Dd:304:LYS:HZ1	1.82	0.45
24:2V:164:VAL:HG21	13:Df:309:HIS:CD2	2.52	0.45
12:2g:330:MET:HB3	12:2g:349:VAL:HG11	1.99	0.45
29:3E:1185:LYS:NZ	13:5d:108:TYR:HE2	1.97	0.45
31:3I:350:GLU:O	31:3I:354:LEU:HG	2.17	0.45
32:3J:52:ASN:HA	32:3J:137:HIS:O	2.17	0.45
32:3K:58:LEU:HB2	32:3K:116:TYR:OH	2.16	0.45
32:3K:130:GLU:O	32:3K:131:ASN:O	2.35	0.45
32:3K:183:VAL:N	32:3K:221:VAL:O	2.39	0.45
34:3M:300:ALA:O	34:3M:303:SER:OG	2.21	0.45
34:3O:88:ALA:O	34:3O:92:THR:HG23	2.17	0.45
34:3O:366:VAL:CG1	34:3Y:359:ARG:NE	2.75	0.45
34:3S:40:ASN:OD1	34:3S:44:LYS:HE3	2.16	0.45
34:3V:118:HIS:CE1	34:3V:356:PHE:CB	2.99	0.45
34:3X:122:GLN:HB3	34:3X:368:LEU:HD22	1.97	0.45
34:3Y:489:MET:HE1	34:4A:482:LEU:HD22	1.99	0.45
12:3a:248:ALA:HB2	12:3a:350:LYS:HZ1	1.82	0.45
12:3e:31:ASP:HB2	12:3e:32:PRO:HD2	1.97	0.45
12:3g:99:ASN:HA	12:3g:142:GLY:H	1.82	0.45
34:4A:303:SER:HA	34:4A:306:VAL:HG22	1.97	0.45
35:4C:284:THR:OG1	35:4C:318:VAL:HB	2.16	0.45
35:4C:325:LEU:HD21	35:4C:342:PHE:CE1	2.51	0.45
35:4C:571:ASN:ND2	37:4E:1762:GLU:H	2.14	0.45
35:4C:933:LEU:O	35:4C:1085:SER:OG	2.32	0.45
36:4D:122:HIS:HA	36:4D:127:ILE:HG21	1.98	0.45
37:4E:577:LEU:CB	43:5L:30:ARG:NH2	2.80	0.45
37:4E:582:GLN:O	43:5L:37:THR:C	2.58	0.45
37:4E:591:PRO:HA	43:5L:20:HIS:CB	2.40	0.45
37:4E:1159:ASP:OD2	38:4O:17:LEU:HB3	2.17	0.45
37:4E:1172:TRP:CZ3	37:4E:1197:PRO:HG2	2.52	0.45
37:4E:1314:LEU:HD11	37:4E:1322:ARG:HB2	1.99	0.45
37:4F:671:LEU:CB	38:4K:39:HIS:HB3	2.46	0.45
37:4F:897:VAL:HG21	37:4F:906:THR:CG2	2.46	0.45
37:4F:1093:VAL:HG12	37:4F:1136:ARG:O	2.16	0.45
37:4F:1138:VAL:O	37:4F:1143:LEU:N	2.50	0.45
37:4F:1171:GLY:HA2	37:4F:1273:PRO:HG2	1.99	0.45
37:4F:1302:ASN:HB2	37:4F:1318:TYR:HD1	1.82	0.45
37:4F:1525:LEU:HD11	37:4F:1611:ILE:HG22	1.99	0.45
37:4F:1697:SER:HB2	37:4F:1777:TYR:CZ	2.52	0.45
37:4G:534:HIS:CE1	38:4I:50:ARG:NH2	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:599:VAL:O	37:4G:1776:VAL:HA	2.17	0.45
37:4G:1171:GLY:HA2	37:4G:1273:PRO:HG2	1.99	0.45
37:4G:1175:PRO:HA	37:4G:1181:ALA:HB2	1.98	0.45
37:4G:1288:THR:HG22	37:4G:1295:ARG:CD	2.47	0.45
37:4H:528:SER:OG	37:4H:530:PRO:HD2	2.17	0.45
37:4H:761:SER:OG	37:4H:1616:VAL:HB	2.17	0.45
37:4H:796:PRO:HD2	37:4H:815:ALA:HB1	1.99	0.45
38:4K:61:LEU:HD21	38:4N:65:MET:HE1	1.97	0.45
38:4L:57:VAL:O	38:4L:58:VAL:C	2.60	0.45
39:4R:7:LEU:HD21	43:5J:94:GLU:HG2	1.98	0.45
39:4S:15:LEU:HD21	43:5K:124:MET:SD	2.57	0.45
39:4S:206:MET:HE3	39:4S:206:MET:HB3	1.77	0.45
40:4U:66:ASN:HA	44:5U:68:ASP:OD1	2.16	0.45
40:4U:637:VAL:O	40:4U:638:THR:OG1	2.31	0.45
40:4U:696:SER:HB3	40:4U:818:MET:O	2.17	0.45
12:4a:54:ALA:HB2	12:4a:86:ARG:NH2	2.31	0.45
12:4c:67:ASP:O	12:4c:92:PHE:HA	2.16	0.45
13:4f:15:GLN:HB3	13:4f:228:ASN:ND2	2.31	0.45
12:4g:55:THR:HG23	12:5g:282:ARG:O	2.17	0.45
41:5B:77:GLY:N	41:5B:92:TRP:O	2.46	0.45
42:5H:135:ARG:HB3	43:5L:51:HIS:CA	2.47	0.45
42:5H:137:TYR:HD1	43:5L:46:PRO:CA	2.30	0.45
42:5H:137:TYR:CD2	43:5L:48:THR:OG1	2.70	0.45
42:5H:139:LEU:CA	43:5L:145:SER:O	2.59	0.45
43:5I:142:TYR:O	43:5I:145:SER:HB2	2.17	0.45
43:5K:51:HIS:NE2	43:5K:146:TYR:CZ	2.85	0.45
43:5L:24:LYS:HD3	43:5L:24:LYS:H	1.81	0.45
44:5R:113:MET:HE3	44:5R:120:LEU:HD22	1.99	0.45
44:5S:59:VAL:HG23	44:5S:71:GLU:HB3	1.99	0.45
44:5S:62:ASP:OD1	44:5S:63:GLY:N	2.49	0.45
44:5U:56:ILE:HA	44:5U:59:VAL:HG12	1.97	0.45
13:5d:223:THR:HG23	13:5d:225:THR:HG23	1.98	0.45
12:5e:334:GLN:NE2	12:5e:349:VAL:HG12	2.32	0.45
13:5f:64:ARG:NH1	13:5f:129:CYS:HB3	2.31	0.45
47:6A:153:GLU:CD	47:6A:157:ARG:HH12	2.25	0.45
47:6A:1241:GLU:HA	47:6A:1244:LEU:HD12	1.99	0.45
47:6A:1667:TRP:CZ2	47:6A:1672:LEU:HD11	2.52	0.45
3:6D:36:VAL:HG13	3:6D:79:PRO:CG	2.46	0.45
3:6D:232:CYS:SG	3:6D:267:LEU:HD23	2.57	0.45
48:6E:82:ASN:OD1	48:6E:83:ALA:N	2.50	0.45
48:6E:722:ARG:NH1	49:6G:21:ASN:HD22	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:6E:852:PRO:HG3	48:6E:949:LEU:HD13	1.99	0.45
48:6E:1020:ILE:HA	48:6E:1026:THR:CG2	2.46	0.45
48:6F:82:ASN:OD1	48:6F:83:ALA:N	2.50	0.45
48:6F:189:LYS:HA	48:6F:210:LEU:HA	1.98	0.45
48:6F:607:HIS:CG	48:6F:608:CYS:H	2.35	0.45
48:6F:1020:ILE:HA	48:6F:1026:THR:HG21	1.99	0.45
49:6G:74:MET:HE1	49:6G:76:ARG:HB2	1.99	0.45
49:6G:107:THR:HA	49:6G:110:VAL:HG22	1.98	0.45
49:6G:204:ALA:H	49:6G:305:LYS:HZ2	1.62	0.45
49:6H:74:MET:HE1	49:6H:76:ARG:HB2	1.99	0.45
49:6H:278:TYR:HB2	49:6H:281:LYS:HE2	1.98	0.45
49:6J:33:SER:O	49:6J:37:LYS:HG2	2.16	0.45
49:6J:64:VAL:HG22	49:6J:151:ASN:HB2	1.99	0.45
49:6J:252:GLU:HG3	49:6J:447:ARG:HH21	1.82	0.45
49:6J:299:MET:HE2	49:6J:299:MET:HB3	1.83	0.45
50:6L:50:ARG:HG2	50:6L:535:ASP:OD1	2.17	0.45
51:6M:2138:SER:HA	51:6M:2288:TRP:CD1	2.52	0.45
51:6M:2203:ALA:HB2	51:6M:2242:VAL:HG22	1.98	0.45
51:6N:2152:SER:OG	51:6N:2285:LEU:HD23	2.17	0.45
12:6a:201:VAL:HG12	12:6a:266:PHE:O	2.16	0.45
13:6d:176:GLN:O	12:6e:331:LEU:HD13	2.16	0.45
12:6e:377:MET:HE2	12:6e:377:MET:HB2	1.59	0.45
13:6f:349:THR:OG1	13:6f:350:GLY:N	2.49	0.45
13:6h:21:TRP:HZ3	13:6h:52:PHE:HB3	1.82	0.45
13:6h:349:THR:OG1	13:6h:350:GLY:N	2.49	0.45
12:7c:202:LEU:HD22	12:7c:300:MET:HE2	1.99	0.45
12:7c:378:PHE:HD1	12:7c:415:MET:HE3	1.82	0.45
13:7d:21:TRP:HZ3	13:7d:52:PHE:HB3	1.82	0.45
12:8a:273:LEU:HD23	12:8a:273:LEU:HA	1.83	0.45
13:8b:64:ARG:NH1	13:8b:129:CYS:HB3	2.31	0.45
12:8c:50:TYR:CE2	12:8c:241:ARG:HD3	2.52	0.45
12:8c:229:ILE:HA	12:8c:300:MET:HE1	1.97	0.45
12:9a:42:LEU:HD13	12:9a:356:ILE:HD11	1.99	0.45
12:9a:176:SER:HB2	13:9b:349:THR:HB	1.98	0.45
12:9c:232:VAL:HG22	12:9c:270:PHE:HB2	1.99	0.45
12:9e:247:ASN:O	12:9e:252:LYS:NZ	2.48	0.45
13:9f:30:ILE:HA	13:9f:36:MET:HB3	1.98	0.45
12:Aa:58:ARG:HE	12:Aa:86:ARG:HH22	1.65	0.45
13:Af:68:LEU:HD12	13:Af:93:ILE:HB	1.99	0.45
13:Ah:21:TRP:HZ3	13:Ah:52:PHE:HB3	1.82	0.45
13:Ah:128:ASN:OD1	13:Bh:285:GLN:NE2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bd:12:ALA:HB2	54:Bd:501:GTP:C8	2.51	0.45
13:Bd:191:THR:HA	13:Bd:194:LEU:HG	1.98	0.45
13:Bf:130:THR:OG1	13:Bf:131:GLY:N	2.49	0.45
13:Cb:191:THR:HA	13:Cb:194:LEU:HG	1.98	0.45
13:Cd:68:LEU:HD12	13:Cd:93:ILE:HB	1.99	0.45
12:Ce:189:VAL:O	12:Ce:193:VAL:HG23	2.17	0.45
13:Cf:30:ILE:HA	13:Cf:36:MET:HB3	1.98	0.45
12:Cg:83:GLN:O	12:Dg:281:TYR:HE1	1.99	0.45
12:Cg:330:MET:HB3	12:Cg:349:VAL:HG11	1.97	0.45
13:Ch:30:ILE:HA	13:Ch:36:MET:HB3	1.98	0.45
13:Ch:68:LEU:HD12	13:Ch:93:ILE:HB	1.99	0.45
12:Da:42:LEU:HD13	12:Da:356:ILE:HD11	1.99	0.45
13:Db:210:TYR:CE1	12:Dc:324:LYS:HB2	2.51	0.45
12:De:21:TRP:CZ2	12:De:63:ALA:HB2	2.52	0.45
12:De:70:PRO:HG3	12:De:92:PHE:CD2	2.52	0.45
12:De:318:ARG:HB3	12:De:357:PRO:HA	1.98	0.45
12:Dg:50:TYR:CE2	12:Dg:241:ARG:HD3	2.51	0.45
1:0J:37:LEU:HG	1:0J:42:ALA:CB	2.47	0.45
1:0J:219:ILE:HG12	1:0J:255:LYS:HG2	1.99	0.45
1:0W:163:VAL:HG12	1:0W:168:ALA:CB	2.46	0.45
1:0I:227:ARG:HG2	1:0I:267:VAL:CG1	2.47	0.45
1:0I:379:CYS:O	1:0I:383:LEU:HG	2.17	0.45
1:0K:134:LEU:HA	1:0K:142:LYS:HG2	1.99	0.45
1:0K:301:TYR:HA	1:0K:304:ASP:OD1	2.16	0.45
1:0A:218:VAL:HG22	1:0A:229:VAL:HG21	1.99	0.45
1:0A:229:VAL:O	1:0A:233:LEU:HG	2.16	0.45
1:0C:245:GLU:HA	1:0C:248:VAL:HG22	1.99	0.45
1:0C:371:ALA:HB1	1:0C:407:VAL:HA	1.99	0.45
1:0D:210:ALA:O	1:0D:214:LEU:HG	2.16	0.45
1:0E:365:ARG:HG3	1:0E:406:SER:HB3	1.99	0.45
1:0F:273:THR:O	1:0F:277:GLU:HG2	2.17	0.45
1:0G:55:PRO:CB	1:0G:96:ASN:ND2	2.78	0.45
1:0L:45:LEU:C	1:0L:48:PRO:HD2	2.42	0.45
1:0L:65:LEU:CD2	1:0L:84:ILE:HG21	2.47	0.45
1:0L:344:LEU:HA	1:0L:347:GLU:OE2	2.17	0.45
1:0N:34:ILE:HG23	1:0N:68:LEU:HD22	1.99	0.45
1:0O:338:PRO:HB2	1:0O:339:PRO:HD3	1.99	0.45
1:0R:147:TRP:CD1	1:0R:186:ILE:HG23	2.52	0.45
1:0R:193:ASP:HA	1:0R:196:LYS:HE3	1.99	0.45
1:0R:323:PHE:CZ	47:6B:277:PHE:CE1	3.04	0.45
1:0U:185:ARG:HG3	5:1M:588:ARG:HH11	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0U:368:PRO:O	1:0U:372:LYS:HG3	2.17	0.45
1:0X:324:SER:HG	1:0X:327:LEU:HG	1.81	0.45
1:0X:353:LYS:HB2	1:0X:396:LEU:HD13	1.99	0.45
1:0Z:153:ALA:O	1:0Z:197:HIS:CD2	2.70	0.45
1:1A:64:ALA:O	1:1A:68:LEU:HG	2.17	0.45
1:1A:371:ALA:O	1:1A:411:LEU:HD12	2.17	0.45
1:1C:338:PRO:HB2	1:1C:339:PRO:HD3	1.99	0.45
2:1D:212:THR:O	2:1D:216:THR:HG23	2.17	0.45
2:1D:217:ALA:HB1	2:1D:260:ILE:HG22	1.98	0.45
2:1E:82:LEU:HD12	2:1E:118:PRO:HB2	1.99	0.45
2:1E:186:GLU:HB2	2:1E:188:LEU:HD12	1.99	0.45
2:1E:221:SER:OG	2:1E:264:SER:HA	2.17	0.45
2:1E:426:LEU:O	2:1E:429:MET:N	2.50	0.45
2:1F:64:THR:CA	2:1F:88:LEU:HD13	2.46	0.45
3:1H:922:ALA:HB1	4:1J:250:LEU:HD12	1.99	0.45
3:1H:988:TRP:HE3	3:1H:1010:LEU:CG	2.27	0.45
3:1I:645:LEU:HB3	3:1I:684:HIS:CE1	2.51	0.45
4:1J:26:GLN:NE2	4:1J:60:ARG:HG2	2.32	0.45
4:1K:58:ARG:NH1	4:1K:88:GLN:HE22	2.07	0.45
4:1K:294:SER:HA	4:1K:324:LYS:HA	1.99	0.45
6:1N:2719:LEU:HD21	6:1N:2724:VAL:HA	1.98	0.45
7:1O:670:ALA:HA	7:1O:694:LEU:HD11	1.99	0.45
7:1O:1216:VAL:HG22	7:1O:1216:VAL:O	2.17	0.45
7:1O:1384:VAL:O	7:1O:1388:LEU:HG	2.16	0.45
9:1Q:626:ALA:H	9:1Q:641:GLN:HA	1.82	0.45
13:1b:195:LEU:HD12	13:1b:266:HIS:HE1	1.81	0.45
12:1c:173:PRO:HA	12:1c:380:ARG:HD2	1.98	0.45
13:1d:155:GLU:O	13:1d:159:VAL:HG23	2.16	0.45
13:1f:68:LEU:HD12	13:1f:93:ILE:HB	1.99	0.45
13:1h:191:THR:HA	13:1h:194:LEU:HG	1.98	0.45
13:1h:195:LEU:HD12	13:1h:266:HIS:HE1	1.81	0.45
24:2T:140:PRO:HG2	13:Ch:117:LEU:CD1	2.44	0.45
12:2e:42:LEU:HD13	12:2e:356:ILE:HD11	1.99	0.45
30:3G:726:ASP:O	30:3G:729:LEU:HB2	2.16	0.45
31:3I:193:LEU:O	31:3I:197:GLU:HG3	2.16	0.45
32:3J:83:PRO:HG3	32:3J:123:VAL:HG22	1.99	0.45
32:3J:368:PRO:HD3	12:9a:307:HIS:O	2.16	0.45
32:3J:407:ARG:NE	32:3J:410:ASP:OD1	2.35	0.45
32:3K:263:ALA:HA	32:3K:266:VAL:HG12	1.98	0.45
34:3M:204:MET:HE3	34:3P:288:MET:HB3	1.99	0.45
34:3M:252:GLU:O	34:3M:255:HIS:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3O:304:SER:HA	34:3O:307:GLU:HG3	1.99	0.45
34:3P:433:TYR:CZ	34:3P:438:ILE:HD11	2.52	0.45
34:3S:380:ALA:O	34:3S:384:ASN:ND2	2.46	0.45
34:3U:51:GLY:O	34:3U:54:GLU:HG3	2.17	0.45
34:3Z:258:TYR:CD1	34:3Z:474:TRP:HD1	2.35	0.45
12:3a:31:ASP:HB2	12:3a:32:PRO:HD2	1.97	0.45
12:3c:232:VAL:HG22	12:3c:270:PHE:HB2	1.99	0.45
12:3c:252:LYS:HE2	54:3c:501:GTP:O3G	2.17	0.45
12:3e:150:LEU:O	12:3e:153:SER:OG	2.31	0.45
13:3h:74:VAL:O	13:3h:78:VAL:HG23	2.17	0.45
34:4A:372:GLN:O	34:4A:376:THR:HG23	2.17	0.45
35:4C:489:CYS:SG	35:4C:492:CYS:N	2.90	0.45
35:4C:1084:ARG:HD3	37:4E:715:PHE:CZ	2.52	0.45
37:4E:542:ARG:CD	42:5H:110:PRO:HG2	2.46	0.45
37:4E:1092:LEU:HD21	37:4E:1135:PHE:CE1	2.52	0.45
37:4E:1163:SER:OG	37:4E:1184:TRP:HB3	2.17	0.45
37:4F:531:LEU:HD22	37:4F:680:VAL:HG13	1.99	0.45
37:4F:542:ARG:CZ	38:4K:42:ILE:HD13	2.47	0.45
37:4F:546:SER:HB2	37:4F:552:ASP:HA	1.99	0.45
37:4F:1082:LEU:HB2	37:4F:1082:LEU:HD22	1.98	0.45
37:4F:1083:ILE:HA	38:4N:35:ALA:O	2.17	0.45
37:4F:1317:ASP:O	37:4F:1318:TYR:HB3	2.15	0.45
37:4F:1709:LEU:HD12	37:4F:1710:GLU:N	2.25	0.45
37:4G:511:ASN:HD22	37:4G:554:THR:HB	1.81	0.45
37:4G:820:ARG:HB3	37:4G:870:THR:HG21	1.99	0.45
37:4H:1341:ILE:CB	38:4M:31:ALA:HB3	2.47	0.45
37:4H:1697:SER:HB2	37:4H:1777:TYR:CZ	2.52	0.45
38:4K:48:PRO:CD	38:4K:49:ILE:HD12	2.46	0.45
38:4K:49:ILE:HD12	38:4K:49:ILE:H	1.81	0.45
38:4M:25:PRO:CA	38:4M:28:VAL:H	2.29	0.45
39:4Q:169:LEU:HD22	39:4Q:178:ILE:CD1	2.45	0.45
39:4R:119:LYS:HA	39:4R:122:LEU:HD12	1.99	0.45
39:4S:119:LYS:HA	39:4S:122:LEU:HD12	1.99	0.45
40:4V:293:HIS:HE1	40:4V:301:LEU:O	1.99	0.45
12:4a:48:ASN:O	12:4a:62:ARG:NH2	2.45	0.45
12:4a:182:PRO:O	12:4a:186:THR:HG23	2.15	0.45
13:4b:15:GLN:HB3	13:4b:228:ASN:ND2	2.31	0.45
13:4d:130:THR:OG1	13:4d:131:GLY:N	2.49	0.45
12:4e:113:ILE:HD13	12:4e:150:LEU:HG	1.99	0.45
13:4h:130:THR:OG1	13:4h:131:GLY:N	2.49	0.45
41:5A:131:GLY:HA3	41:5A:152:ALA:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5G:143:VAL:HG22	43:5K:144:TYR:HE2	1.78	0.45
42:5H:77:VAL:O	42:5H:81:VAL:HG22	2.16	0.45
42:5H:129:MET:HA	42:5H:132:GLY:O	2.16	0.45
42:5H:137:TYR:CZ	43:5L:45:ASN:OD1	2.69	0.45
42:5H:137:TYR:CD2	43:5L:47:LYS:CB	2.99	0.45
43:5I:101:LYS:O	43:5I:105:LEU:HG	2.17	0.45
43:5J:51:HIS:NE2	43:5J:146:TYR:CZ	2.85	0.45
43:5K:142:TYR:O	43:5K:145:SER:HB2	2.17	0.45
43:5L:51:HIS:NE2	43:5L:146:TYR:CZ	2.85	0.45
12:5a:322:SER:O	12:5a:326:VAL:HG23	2.17	0.45
13:5d:15:GLN:HB3	13:5d:228:ASN:ND2	2.31	0.45
13:5d:349:THR:OG1	13:5d:350:GLY:N	2.49	0.45
47:6A:1027:ASN:O	47:6A:1031:GLU:OE1	2.35	0.45
47:6B:1027:ASN:O	47:6B:1031:GLU:OE1	2.35	0.45
47:6B:1233:ARG:HG2	47:6B:1509:GLY:HA2	1.99	0.45
47:6B:1601:VAL:HG23	51:6N:1980:LEU:HD11	1.98	0.45
47:6B:1667:TRP:CZ2	47:6B:1672:LEU:HD11	2.52	0.45
47:6B:1843:ARG:NH1	47:6B:1904:SER:OG	2.49	0.45
47:6B:1929:LEU:HD22	51:6N:1925:PRO:HD2	1.99	0.45
3:6D:280:SER:HA	3:6D:495:PRO:HB3	1.99	0.45
48:6E:76:THR:HG22	48:6E:98:ARG:HB3	1.99	0.45
48:6E:607:HIS:CG	48:6E:608:CYS:H	2.35	0.45
48:6E:833:HIS:ND1	48:6E:835:GLU:OE2	2.39	0.45
49:6H:46:GLU:N	49:6H:46:GLU:CD	2.72	0.45
49:6I:12:LEU:O	49:6I:16:VAL:HG23	2.16	0.45
49:6I:33:SER:O	49:6I:37:LYS:HG2	2.16	0.45
49:6I:49:LYS:HE2	49:6I:69:TYR:CD2	2.52	0.45
49:6I:74:MET:HE1	49:6I:76:ARG:HB2	1.99	0.45
49:6I:154:LEU:CD1	49:6I:389:ASN:HA	2.47	0.45
49:6I:193:ASN:ND2	49:6I:209:GLU:HB3	2.31	0.45
49:6J:74:MET:HE1	49:6J:76:ARG:HB2	1.99	0.45
50:6K:240:ASP:OD1	50:6K:270:ARG:NH1	2.49	0.45
50:6K:504:LYS:HZ3	50:6K:506:LYS:H	1.65	0.45
50:6L:334:LYS:HD2	50:6L:359:PHE:O	2.17	0.45
51:6M:1634:THR:OG1	51:6M:1635:GLY:N	2.50	0.45
51:6M:1723:PRO:HD3	51:6M:1790:MET:HE2	1.98	0.45
51:6N:1322:LEU:HD12	51:6N:1322:LEU:N	2.31	0.45
51:6N:2203:ALA:HB2	51:6N:2242:VAL:HG22	1.98	0.45
12:6a:21:TRP:CZ2	12:6a:63:ALA:HB2	2.52	0.45
12:6a:68:LEU:HD23	12:6a:143:THR:HG23	1.98	0.45
13:6f:21:TRP:HZ3	13:6f:52:PHE:HB3	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6g:232:VAL:HG22	12:6g:270:PHE:HB2	1.98	0.45
12:6g:330:MET:HB3	12:6g:349:VAL:HG11	1.98	0.45
12:7a:201:VAL:HG23	12:7a:301:CYS:HB2	1.98	0.45
13:7b:21:TRP:HZ3	13:7b:52:PHE:HB3	1.82	0.45
13:7h:12:ALA:HB2	54:7h:501:GTP:C8	2.51	0.45
13:7h:30:ILE:HA	13:7h:36:MET:HB3	1.98	0.45
13:7h:175:PRO:HG3	13:7h:390:ARG:NH2	2.31	0.45
12:8a:335:ASN:O	12:8a:338:SER:OG	2.32	0.45
12:8g:130:LEU:HB3	12:8g:162:ARG:HD3	1.99	0.45
12:8g:330:MET:HB3	12:8g:349:VAL:HG11	1.99	0.45
13:8h:195:LEU:HD12	13:8h:266:HIS:HE1	1.81	0.45
13:9b:30:ILE:HA	13:9b:36:MET:HB3	1.98	0.45
12:9c:172:SER:HB2	12:9c:205:GLU:HB2	1.98	0.45
13:9d:191:THR:HA	13:9d:194:LEU:HG	1.98	0.45
13:9d:407:TRP:CD2	12:9e:255:VAL:HG12	2.51	0.45
12:9e:86:ARG:HG2	12:9e:88:ASP:OD1	2.16	0.45
13:Ab:68:LEU:HD12	13:Ab:93:ILE:HB	1.99	0.45
12:Ac:236:ILE:HG12	12:Ac:368:ILE:HD11	1.98	0.45
12:Ag:83:GLN:O	12:Bg:281:TYR:OH	2.25	0.45
12:Ag:284:LEU:CD2	12:Ag:362:LYS:HB3	2.47	0.45
12:Ag:327:ASP:OD1	12:Ag:328:GLU:N	2.50	0.45
13:Bb:74:VAL:O	13:Bb:78:VAL:HG23	2.17	0.45
12:Bc:317:PHE:HB3	12:Bc:321:MET:CE	2.45	0.45
13:Bd:74:VAL:O	13:Bd:78:VAL:HG23	2.17	0.45
12:Be:208:TYR:CE1	13:Bf:326:LYS:HB2	2.52	0.45
12:Be:330:MET:SD	12:Be:349:VAL:HG11	2.57	0.45
12:Ca:139:LEU:O	12:Ca:171:PRO:HD3	2.17	0.45
13:Cb:68:LEU:HD12	13:Cb:93:ILE:HB	1.99	0.45
12:Cc:165:LEU:HD11	12:Cc:200:MET:HE2	1.99	0.45
13:Cd:191:THR:HA	13:Cd:194:LEU:HG	1.98	0.45
13:Cf:21:TRP:HZ3	13:Cf:52:PHE:HB3	1.82	0.45
13:Cf:68:LEU:HD12	13:Cf:93:ILE:HB	1.99	0.45
12:Cg:398:TYR:HD2	12:Cg:403:MET:HE1	1.82	0.45
13:Ch:21:TRP:HZ3	13:Ch:52:PHE:HB3	1.82	0.45
13:Ch:107:HIS:O	13:Ch:112:LYS:NZ	2.41	0.45
13:Ch:175:PRO:HG3	13:Ch:390:ARG:NH2	2.31	0.45
13:Db:30:ILE:HA	13:Db:36:MET:HB3	1.98	0.45
13:Db:210:TYR:CG	12:Dc:324:LYS:HD3	2.52	0.45
12:Dc:3:GLU:OE1	12:Dc:3:GLU:N	2.50	0.45
12:De:257:LEU:HD21	12:De:314:SER:HB2	1.99	0.45
13:Df:349:THR:OG1	13:Df:350:GLY:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Dg:236:ILE:HG12	12:Dg:368:ILE:HD11	1.99	0.45
1:0H:194:ILE:HG23	1:0H:201:LEU:HD13	1.98	0.45
1:0J:88:LEU:O	1:0J:91:SER:HB2	2.17	0.45
1:0I:14:GLN:O	1:0I:18:VAL:HG13	2.17	0.45
1:0K:193:ASP:O	1:0K:197:HIS:HD2	2.00	0.45
44:5P:113:MET:HE3	44:5P:120:LEU:HD22	1.99	0.45
1:0D:407:VAL:HG13	1:0D:411:LEU:HD13	1.98	0.45
1:0E:156:ASN:HD21	1:0E:159:LEU:HD13	1.80	0.45
1:0G:413:HIS:CD2	1:0G:416:ALA:H	2.35	0.45
1:0L:270:HIS:O	1:0L:274:VAL:HG23	2.17	0.45
1:0M:302:ILE:HG23	1:0M:310:ARG:HE	1.81	0.45
1:0P:403:ALA:O	1:0P:406:SER:OG	2.31	0.45
1:0Q:8:GLN:HA	1:0Q:11:GLU:OE1	2.17	0.45
1:0Q:114:SER:HB2	1:0Q:117:LEU:HG	1.98	0.45
1:0Q:230:CYS:HG	1:0Q:259:CYS:HG	1.60	0.45
1:0R:34:ILE:HD13	1:0R:71:TYR:HB2	1.99	0.45
1:0U:223:ALA:HB2	1:0U:262:PHE:CZ	2.52	0.45
1:0X:229:VAL:O	1:0X:233:LEU:HG	2.17	0.45
1:0Y:47:ARG:HG3	1:0Y:48:PRO:HD3	1.98	0.45
1:0Z:394:ASP:OD2	1:0Z:395:ASP:N	2.50	0.45
1:1A:45:LEU:O	1:1A:49:LEU:HD23	2.17	0.45
1:1A:169:VAL:N	1:1A:170:PRO:HD2	2.32	0.45
1:1B:214:LEU:O	1:1B:218:VAL:HG23	2.16	0.45
1:1B:404:LEU:O	1:1B:408:ILE:HG12	2.16	0.45
1:1C:193:ASP:O	1:1C:197:HIS:HD2	2.00	0.45
2:1F:51:VAL:HG23	2:1F:52:MET:SD	2.57	0.45
2:1G:16:GLY:HA2	2:1G:20:GLN:CD	2.42	0.45
2:1G:89:ALA:HB2	2:1G:126:VAL:HG22	1.99	0.45
3:1H:262:GLU:OE2	47:6A:350:ARG:NH2	2.50	0.45
3:1H:991:ILE:CG1	47:6A:399:LYS:HB2	2.47	0.45
4:1J:21:ILE:CG2	13:Bh:419:SER:HB3	2.47	0.45
5:1L:412:SER:H	5:1L:449:ILE:CD1	2.30	0.45
5:1L:486:ASP:OD1	5:1L:487:LYS:N	2.50	0.45
6:1N:155:VAL:HB	6:1N:159:HIS:HE2	1.82	0.45
6:1N:2494:GLU:CD	6:1N:2725:LEU:HD22	2.42	0.45
7:1O:2479:GLU:O	7:1O:2483:PHE:CD2	2.70	0.45
7:1O:2672:ALA:HB3	7:1O:2712:LEU:HD21	1.99	0.45
8:1P:769:VAL:HG11	8:1P:775:ARG:HD3	1.97	0.45
10:1R:285:PHE:HE1	32:3J:118:TYR:HH	1.63	0.45
10:1S:364:PHE:HZ	12:Bg:333:VAL:CG1	2.22	0.45
12:1c:50:TYR:CE2	12:1c:241:ARG:HD3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:2F:90:HIS:HB3	12:Ca:279:GLN:CD	2.42	0.45
22:2P:82:UNK:N	12:5e:125:GLU:OE2	2.50	0.45
23:2R:96:UNK:HA	12:3a:337:ASN:OD1	2.16	0.45
24:2T:132:ARG:HB2	24:2T:152:GLU:CG	2.47	0.45
24:2U:129:SER:CB	24:2U:151:PHE:HA	2.47	0.45
12:2a:42:LEU:HD13	12:2a:356:ILE:HD11	1.99	0.45
12:2a:103:LYS:HG2	12:2a:401:GLU:OE2	2.16	0.45
12:2g:284:LEU:HD23	12:2g:362:LYS:HB2	1.99	0.45
13:2h:175:PRO:O	13:2h:394:LYS:NZ	2.46	0.45
28:3C:538:ARG:NH2	13:4h:339:ARG:HH22	2.15	0.45
30:3F:337:PRO:CG	13:7f:402:ARG:NH2	2.80	0.45
30:3G:527:PHE:CZ	13:7h:108:TYR:O	2.69	0.45
30:3G:597:GLN:O	30:3G:601:ARG:HG3	2.17	0.45
31:3H:105:LEU:HD23	31:3H:213:ALA:HB1	1.98	0.45
32:3K:88:PHE:HZ	32:3K:138:ALA:HB2	1.82	0.45
33:3L:47:LEU:CD1	33:3L:50:LEU:HD21	2.47	0.45
34:3M:75:GLN:HG3	34:3M:419:LEU:HD13	1.98	0.45
34:3M:258:TYR:OH	34:3M:477:GLU:HB2	2.16	0.45
34:3M:327:VAL:HG13	34:3M:400:LEU:CG	2.46	0.45
34:3O:265:GLN:HE22	34:3O:463:HIS:CA	2.29	0.45
34:3P:89:ILE:HD12	34:3P:404:HIS:CG	2.51	0.45
34:3P:109:LEU:O	34:3P:112:LYS:HG3	2.17	0.45
34:3P:124:ARG:NH2	34:3P:125:ARG:HB2	2.32	0.45
34:3P:492:LEU:HB3	34:3S:255:HIS:CD2	2.52	0.45
34:3R:498:LEU:HD21	34:3Y:102:GLN:HA	1.99	0.45
34:3S:64:HIS:CE1	34:3S:426:LEU:HG	2.52	0.45
34:3T:48:HIS:CD2	34:3T:222:LEU:HA	2.51	0.45
34:3U:83:GLU:CD	34:3U:86:GLN:HE21	2.25	0.45
12:3a:161:ASP:OD1	12:3a:161:ASP:N	2.45	0.45
12:3c:102:ALA:HB1	12:3c:401:GLU:HB2	1.99	0.45
13:3d:74:VAL:O	13:3d:78:VAL:HG23	2.17	0.45
12:3e:151:LEU:O	12:3e:155:ILE:HG12	2.17	0.45
13:3f:74:VAL:O	13:3f:78:VAL:HG23	2.17	0.45
12:3g:3:GLU:OE1	12:3g:3:GLU:N	2.49	0.45
34:4B:434:ASP:OD1	34:4B:435:SER:N	2.50	0.45
35:4C:326:ARG:HB2	35:4C:376:ASP:OD2	2.16	0.45
36:4D:66:TYR:CE1	36:4D:103:LEU:HD22	2.52	0.45
36:4D:253:GLU:O	36:4D:262:THR:HG22	2.16	0.45
37:4E:581:LEU:HD22	43:5L:32:LEU:H	1.82	0.45
37:4E:678:LEU:HD21	37:4E:683:VAL:HG21	1.99	0.45
37:4F:1071:THR:HG21	37:4F:1458:PRO:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1076:THR:CA	38:4N:42:ILE:CD1	2.94	0.45
37:4F:1184:TRP:HB2	37:4F:1186:ARG:HE	1.82	0.45
37:4F:1334:GLU:CA	38:4N:28:VAL:C	2.89	0.45
37:4F:1341:ILE:H	38:4N:31:ALA:N	2.15	0.45
37:4F:1456:PHE:HD1	37:4F:1463:CYS:HG	1.58	0.45
37:4F:1756:PRO:HB2	37:4F:1758:VAL:HG12	1.98	0.45
37:4G:826:LEU:HD22	38:4L:82:TYR:HE1	1.80	0.45
37:4G:1076:THR:HG23	38:4L:38:VAL:CB	2.45	0.45
37:4G:1341:ILE:CD1	38:4L:31:ALA:N	2.78	0.45
37:4H:508:PRO:HA	37:4H:509:PRO:HD3	1.67	0.45
37:4H:902:GLN:HB2	37:4H:1523:PRO:HB3	1.98	0.45
37:4H:1175:PRO:HA	37:4H:1181:ALA:HB2	1.98	0.45
38:4I:70:LYS:HB3	38:4I:71:GLU:CD	2.41	0.45
38:4J:48:PRO:CD	38:4J:49:ILE:HD12	2.45	0.45
38:4J:49:ILE:HD12	38:4J:49:ILE:H	1.82	0.45
39:4S:131:HIS:O	39:4S:135:GLU:HG3	2.16	0.45
40:4U:223:LEU:CD2	40:4U:260:GLU:HG3	2.47	0.45
40:4U:643:MET:SD	40:4U:646:LEU:HD12	2.57	0.45
40:4V:224:TYR:O	40:4V:257:VAL:O	2.35	0.45
12:4a:311:LEU:HD23	12:4a:342:VAL:HG11	1.98	0.45
13:4b:195:LEU:HD12	13:4b:266:HIS:HE1	1.81	0.45
13:4d:15:GLN:HB3	13:4d:228:ASN:ND2	2.31	0.45
12:4e:48:ASN:O	12:4e:62:ARG:NH2	2.45	0.45
12:4e:172:SER:HB2	12:4e:205:GLU:CD	2.42	0.45
41:5A:162:PHE:N	41:5A:164:GLY:C	2.74	0.45
42:5H:45:ALA:C	42:5H:49:ILE:HD12	2.42	0.45
42:5H:91:TYR:HH	43:5L:52:LEU:HB2	1.82	0.45
42:5H:137:TYR:CG	43:5L:45:ASN:HB3	2.52	0.45
43:5L:143:MET:O	43:5L:147:THR:HG22	2.17	0.45
43:5L:158:HIS:C	43:5L:160:SER:N	2.75	0.45
44:5V:93:PHE:HB3	44:5V:142:TYR:CD1	2.52	0.45
44:5V:93:PHE:CB	44:5V:142:TYR:CD1	3.00	0.45
12:5a:251:ARG:O	12:5a:255:VAL:HG13	2.17	0.45
12:5e:127:CYS:SG	12:5e:128:ASP:N	2.89	0.45
12:5e:139:LEU:O	12:5e:171:PRO:HD3	2.16	0.45
13:5f:185:TYR:OH	13:5f:398:MET:HB3	2.16	0.45
12:5g:236:ILE:HG12	12:5g:368:ILE:HD11	1.99	0.45
47:6A:1233:ARG:HG2	47:6A:1509:GLY:HA2	1.99	0.45
47:6A:1929:LEU:HD22	51:6M:1925:PRO:HD2	1.99	0.45
47:6B:791:SER:OG	47:6B:792:GLU:N	2.49	0.45
47:6B:1241:GLU:HA	47:6B:1244:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:1807:VAL:HG21	47:6B:1897:THR:HG21	1.99	0.45
48:6F:789:HIS:H	48:6F:820:LEU:HD13	1.81	0.45
48:6F:852:PRO:HG3	48:6F:949:LEU:HD13	1.99	0.45
49:6G:49:LYS:HE2	49:6G:69:TYR:CD2	2.52	0.45
49:6G:278:TYR:HB2	49:6G:281:LYS:HE2	1.98	0.45
49:6G:290:SER:HA	49:6G:293:PHE:CE1	2.52	0.45
49:6H:64:VAL:HG22	49:6H:151:ASN:HB2	1.99	0.45
49:6I:252:GLU:HG3	49:6I:447:ARG:HH21	1.82	0.45
49:6J:154:LEU:CD1	49:6J:389:ASN:HA	2.47	0.45
50:6K:313:MET:HE2	50:6K:317:ARG:HE	1.81	0.45
50:6K:334:LYS:HD2	50:6K:359:PHE:O	2.17	0.45
50:6L:19:VAL:HG21	50:6L:129:MET:HB3	1.97	0.45
50:6L:240:ASP:OD1	50:6L:270:ARG:NH1	2.49	0.45
50:6L:459:ASN:OD1	50:6L:460:ASN:N	2.50	0.45
50:6L:504:LYS:NZ	50:6L:506:LYS:HB3	2.32	0.45
12:6a:139:LEU:O	12:6a:171:PRO:HD3	2.17	0.45
13:6b:21:TRP:HZ3	13:6b:52:PHE:HB3	1.82	0.45
13:6d:175:PRO:O	13:6d:394:LYS:NZ	2.46	0.45
12:7a:68:LEU:HD23	12:7a:143:THR:HG23	1.99	0.45
12:7a:139:LEU:HD22	12:7a:188:SER:HB2	1.99	0.45
13:7d:181:VAL:HG22	12:7e:347:ASN:O	2.16	0.45
12:7e:23:VAL:HA	12:7e:26:ASP:OD2	2.17	0.45
13:7f:30:ILE:HA	13:7f:36:MET:HB3	1.98	0.45
12:8a:322:SER:O	12:8a:326:VAL:HG23	2.16	0.45
13:8b:74:VAL:O	13:8b:78:VAL:HG23	2.17	0.45
13:8b:195:LEU:HD12	13:8b:266:HIS:HE1	1.81	0.45
12:8c:3:GLU:N	12:8c:3:GLU:OE1	2.50	0.45
12:8c:284:LEU:CD2	12:8c:362:LYS:HB3	2.47	0.45
12:8e:23:VAL:HA	12:8e:26:ASP:OD2	2.17	0.45
13:8f:407:TRP:HB3	12:8g:255:VAL:HG23	1.98	0.45
13:8h:349:THR:OG1	13:8h:350:GLY:N	2.49	0.45
12:9a:103:LYS:HG2	12:9a:401:GLU:OE2	2.16	0.45
13:9b:223:THR:HG23	13:9b:225:THR:HG23	1.98	0.45
13:9f:68:LEU:HD12	13:9f:93:ILE:HB	1.99	0.45
13:9f:191:THR:HA	13:9f:194:LEU:HG	1.98	0.45
12:9g:150:LEU:O	12:9g:153:SER:OG	2.31	0.45
12:Aa:67:ASP:O	12:Aa:92:PHE:HA	2.16	0.45
13:Ah:175:PRO:HG3	13:Ah:390:ARG:NH2	2.31	0.45
12:Ba:21:TRP:CZ2	12:Ba:63:ALA:HB2	2.52	0.45
12:Ba:207:LEU:HA	12:Ba:210:ILE:HG12	1.98	0.45
13:Bd:246:GLY:N	13:Bd:249:ASN:OD1	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Be:26:ASP:OD2	12:Be:81:TYR:OH	2.29	0.45
13:Bf:74:VAL:O	13:Bf:78:VAL:HG23	2.17	0.45
13:Bf:191:THR:HA	13:Bf:194:LEU:HG	1.98	0.45
13:Bf:246:GLY:N	13:Bf:249:ASN:OD1	2.43	0.45
12:Ca:42:LEU:HD13	12:Ca:356:ILE:HD11	1.99	0.45
12:Ca:257:LEU:HA	12:Ca:312:THR:CG2	2.44	0.45
12:Cc:3:GLU:OE1	12:Cc:3:GLU:N	2.49	0.45
12:Cc:236:ILE:HG12	12:Cc:368:ILE:HD11	1.99	0.45
12:Cc:42:LEU:HD13	12:Cc:356:ILE:HD11	1.99	0.45
12:Cc:381:VAL:HB	12:Cc:415:MET:HE1	1.99	0.45
12:Cg:317:PHE:HB3	12:Cg:321:MET:CE	2.46	0.45
13:Dd:349:THR:OG1	13:Dd:350:GLY:N	2.49	0.45
13:Df:273:ALA:N	13:Df:375:VAL:O	2.48	0.45
1:0H:349:GLU:HB3	1:0H:351:HIS:CE1	2.51	0.45
1:0J:269:LYS:HB2	1:0J:309:ASN:HB2	1.98	0.45
1:0K:226:LYS:HB3	1:0K:259:CYS:SG	2.56	0.45
1:0A:355:ALA:O	1:0A:359:THR:HG23	2.17	0.45
1:0B:237:ALA:HB2	1:0B:247:VAL:HG21	1.99	0.45
1:0C:128:ASP:OD1	1:0C:129:SER:N	2.49	0.45
1:0D:37:LEU:HB3	1:0D:42:ALA:HB3	1.98	0.45
1:0D:328:ALA:HA	1:0D:331:VAL:HG22	1.99	0.45
1:0E:95:GLN:HA	25:2X:62:UNK:O	2.16	0.45
1:0E:185:ARG:HD2	1:0E:186:ILE:N	2.32	0.45
1:0F:325:GLU:HG3	1:0F:366:HIS:CD2	2.52	0.45
1:0F:379:CYS:O	1:0F:383:LEU:HG	2.16	0.45
1:0G:261:LYS:HZ1	39:4R:136:LEU:HD13	1.82	0.45
1:0G:421:VAL:HG22	1:0G:432:MET:HA	1.98	0.45
1:0M:72:SER:OG	1:0M:75:LEU:HG	2.17	0.45
1:0M:105:PHE:O	1:0M:108:ARG:HG2	2.15	0.45
1:0N:23:ALA:O	1:0N:27:MET:HG2	2.16	0.45
1:0N:263:PRO:HB2	10:1R:76:VAL:H	1.80	0.45
1:0O:176:VAL:HG11	1:0O:213:TYR:HB3	1.98	0.45
1:0Q:80:VAL:HG21	1:0Q:117:LEU:HD22	1.99	0.45
1:0R:322:ALA:HB3	47:6B:277:PHE:CZ	2.52	0.45
1:0S:46:LEU:HB3	1:0S:65:LEU:HD22	1.98	0.45
1:0U:98:PHE:CD1	5:1M:595:GLU:O	2.69	0.45
1:0Y:101:GLN:HG3	1:0Y:141:VAL:HG12	1.99	0.45
1:0Z:169:VAL:O	1:0Z:173:VAL:HG23	2.17	0.45
1:1B:174:LEU:HA	1:1B:177:GLN:NE2	2.31	0.45
1:1C:56:SER:O	1:1C:59:GLN:HG2	2.17	0.45
2:1D:312:ALA:HB2	2:1D:350:TYR:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:186:GLU:HB2	2:1E:188:LEU:CD1	2.46	0.45
3:1H:1007:ARG:HD3	3:1H:1009:ARG:HE	1.80	0.45
3:1I:554:ILE:HA	3:1I:591:LEU:HD11	1.99	0.45
4:1J:39:LEU:HB2	4:1J:42:GLN:HG3	1.98	0.45
4:1J:294:SER:HA	4:1J:324:LYS:HA	1.99	0.45
4:1K:26:GLN:NE2	4:1K:60:ARG:HG2	2.32	0.45
5:1L:446:LYS:HG3	5:1L:468:LEU:HB3	1.99	0.45
5:1M:483:GLY:N	5:1M:487:LYS:HD2	2.32	0.45
6:1N:1201:GLU:HA	6:1N:1232:GLU:OE2	2.17	0.45
6:1N:2541:THR:HG23	6:1N:2590:GLY:HA3	1.98	0.45
6:1N:2712:MET:O	6:1N:2716:MET:HG2	2.17	0.45
7:1O:127:ALA:HA	7:1O:130:LEU:HD12	1.99	0.45
7:1O:365:LEU:HD11	7:1O:438:LEU:HB3	1.98	0.45
7:1O:365:LEU:HD12	7:1O:438:LEU:HD23	1.98	0.45
7:1O:1072:PRO:HB3	7:1O:2747:LEU:HD11	1.99	0.45
7:1O:2706:HIS:HB3	7:1O:2822:LEU:HD13	1.99	0.45
7:1O:3113:LEU:HD23	7:1O:3113:LEU:HA	1.73	0.45
10:1R:424:THR:HB	12:Ba:218:THR:OG1	2.16	0.45
10:1S:398:VAL:CG1	13:Af:123:ARG:HH22	2.28	0.45
10:1S:409:TYR:OH	12:Be:205:GLU:HG2	2.17	0.45
10:1S:445:TRP:CH2	12:Be:227:HIS:CD2	3.05	0.45
12:1e:98:GLY:HA2	13:1f:254:GLU:HG3	1.99	0.45
12:1e:177:ASP:O	13:1f:352:LYS:HA	2.17	0.45
13:1f:182:VAL:HG22	12:1g:256:ASN:OD1	2.17	0.45
13:1f:224:TYR:CD2	12:1g:245:GLN:HG2	2.51	0.45
12:1g:50:TYR:CE2	12:1g:241:ARG:HD3	2.51	0.45
12:1g:236:ILE:HG12	12:1g:368:ILE:HD11	1.99	0.45
14:2G:37:PHE:CZ	12:De:87:PRO:HB3	2.51	0.45
24:2T:164:VAL:HG11	13:Dh:309:HIS:NE2	2.32	0.45
24:2V:149:SER:HB2	13:Df:304:LYS:HZ1	1.82	0.45
13:2b:21:TRP:HZ3	13:2b:52:PHE:HB3	1.82	0.45
13:2d:212:ILE:O	13:2d:216:SER:OG	2.25	0.45
12:2e:150:LEU:O	12:2e:153:SER:OG	2.33	0.45
13:2f:349:THR:OG1	13:2f:350:GLY:N	2.49	0.45
12:2g:262:ARG:HA	12:2g:264:HIS:CD2	2.51	0.45
30:3G:547:LEU:HD21	13:7h:155:GLU:CD	2.42	0.45
30:3G:602:ARG:HH22	13:7f:416:GLY:HA3	1.82	0.45
31:3H:164:ARG:O	31:3H:168:VAL:HG23	2.17	0.45
32:3K:118:TYR:OH	32:3K:137:HIS:HD2	1.98	0.45
33:3L:97:LEU:HD12	33:3L:123:LEU:HD21	1.99	0.45
33:3L:197:LEU:HD12	12:7e:412:GLU:OE2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3N:197:ASN:HB3	34:3N:199:ASP:OD2	2.17	0.45
34:3O:44:LYS:HE2	34:3T:80:LEU:HB3	1.99	0.45
34:3O:386:HIS:ND1	34:3O:390:LEU:HD11	2.32	0.45
34:3R:61:HIS:HE1	34:3R:434:ASP:OD1	2.00	0.45
34:3R:252:GLU:H	34:3W:488:ARG:NH2	2.15	0.45
34:3R:486:ARG:HB2	37:4H:1795:ARG:NH1	2.32	0.45
34:3S:263:LYS:O	34:3S:267:GLU:HG2	2.17	0.45
34:3T:302:LEU:O	34:3T:306:VAL:HG23	2.17	0.45
34:3U:276:GLU:HB3	34:3U:456:LEU:HD21	1.99	0.45
34:3V:89:ILE:HG13	34:3V:404:HIS:CD2	2.51	0.45
34:3Y:107:TYR:CE2	34:3Y:111:ILE:HD11	2.52	0.45
13:3b:74:VAL:O	13:3b:78:VAL:HG23	2.17	0.45
35:4C:905:VAL:HG13	35:4C:1115:VAL:HG12	1.98	0.45
35:4C:1082:ARG:HD3	37:4E:1815:ALA:O	2.17	0.45
36:4D:170:HIS:C	36:4D:245:HIS:HE1	2.24	0.45
36:4D:229:VAL:HG21	36:4D:255:PHE:CE2	2.49	0.45
37:4E:826:LEU:HD23	38:4O:78:GLU:OE2	2.17	0.45
37:4E:1179:ALA:O	37:4E:1204:LYS:NZ	2.50	0.45
37:4E:1332:SER:HA	37:4E:1341:ILE:O	2.17	0.45
37:4F:430:ASP:OD1	37:4F:431:ALA:N	2.50	0.45
37:4F:1084:ARG:NE	37:4F:1086:THR:HG23	2.31	0.45
37:4F:1092:LEU:HD23	37:4F:1137:ALA:HB2	1.99	0.45
37:4F:1297:THR:HB	37:4F:1305:VAL:CG2	2.47	0.45
37:4F:1336:ASP:CG	37:4F:1708:ALA:HA	2.42	0.45
37:4G:536:LEU:O	37:4G:540:VAL:HG23	2.17	0.45
37:4G:1082:LEU:CD2	38:4L:39:HIS:HB3	2.46	0.45
37:4G:1349:THR:O	37:4G:1350:ILE:HG13	2.16	0.45
37:4G:1756:PRO:HB2	37:4G:1758:VAL:HG12	1.98	0.45
37:4H:828:VAL:HG22	37:4H:856:MET:SD	2.57	0.45
37:4H:1082:LEU:CD2	38:4M:36:VAL:HG11	2.28	0.45
37:4H:1084:ARG:HD3	38:4M:41:LYS:HG3	1.99	0.45
37:4H:1144:LEU:HG	38:4M:29:LYS:CB	2.47	0.45
37:4H:1380:ALA:HB2	37:4H:1399:LEU:HB3	1.98	0.45
38:4M:49:ILE:HD12	38:4M:49:ILE:H	1.81	0.45
39:4R:169:LEU:HD22	39:4R:178:ILE:CD1	2.45	0.45
39:4S:37:ILE:HG21	44:5U:116:LEU:CB	2.47	0.45
41:4Y:171:CYS:CB	43:5J:150:VAL:HG11	2.47	0.45
12:4a:23:VAL:HA	12:4a:26:ASP:OD2	2.17	0.45
12:4a:161:ASP:OD1	12:4a:161:ASP:N	2.46	0.45
12:4a:176:SER:HB2	12:4a:181:GLU:OE1	2.17	0.45
12:4e:3:GLU:HB3	12:4e:62:ARG:HH21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:4e:318:ARG:HB3	12:4e:357:PRO:HA	1.99	0.45
13:4f:74:VAL:O	13:4f:78:VAL:HG23	2.17	0.45
12:4g:236:ILE:HG12	12:4g:368:ILE:HD11	1.99	0.45
12:4g:316:LEU:HA	12:4g:352:SER:OG	2.17	0.45
42:5H:135:ARG:CB	43:5L:52:LEU:CA	2.95	0.45
42:5H:135:ARG:CG	43:5L:54:LEU:H	2.22	0.45
42:5H:140:TYR:HB3	43:5L:47:LYS:HE2	1.99	0.45
43:5I:143:MET:O	43:5I:147:THR:HG22	2.17	0.45
43:5J:143:MET:O	43:5J:147:THR:HG22	2.17	0.45
43:5K:39:LEU:CD1	43:5K:51:HIS:CD2	3.00	0.45
43:5L:7:TRP:HH2	43:5L:69:ASP:OD2	2.00	0.45
12:5a:311:LEU:HD11	12:5a:372:THR:HG22	1.98	0.45
13:5b:30:ILE:HA	13:5b:36:MET:HB3	1.98	0.45
12:5e:139:LEU:HD12	12:5e:170:VAL:HG22	1.99	0.45
12:5g:87:PRO:HD3	12:6g:281:TYR:CD2	2.51	0.45
13:5h:15:GLN:HB3	13:5h:228:ASN:ND2	2.31	0.45
13:5h:30:ILE:HA	13:5h:36:MET:HB3	1.98	0.45
47:6A:407:LEU:HG	47:6A:411:ARG:NE	2.32	0.45
47:6A:923:SER:O	47:6A:927:ILE:HG12	2.16	0.45
47:6A:1289:VAL:CG1	47:6A:1334:ALA:HB1	2.46	0.45
47:6A:1601:VAL:HG23	51:6M:1980:LEU:HD11	1.98	0.45
47:6A:1807:VAL:HG21	47:6A:1897:THR:HG21	1.99	0.45
47:6B:6:ARG:NH1	47:6B:6:ARG:C	2.75	0.45
47:6B:923:SER:O	47:6B:927:ILE:HG12	2.16	0.45
48:6E:518:THR:CG2	48:6E:520:GLN:HE21	2.29	0.45
48:6E:803:GLU:HG2	48:6E:804:GLY:N	2.31	0.45
48:6F:395:TRP:O	48:6F:395:TRP:CG	2.70	0.45
48:6F:518:THR:CG2	48:6F:520:GLN:HE21	2.29	0.45
48:6F:803:GLU:HG2	48:6F:804:GLY:N	2.31	0.45
49:6G:46:GLU:N	49:6G:46:GLU:CD	2.72	0.45
49:6H:290:SER:HA	49:6H:293:PHE:CE1	2.52	0.45
49:6I:64:VAL:HG22	49:6I:151:ASN:HB2	1.99	0.45
49:6I:290:SER:HA	49:6I:293:PHE:CE1	2.52	0.45
49:6J:204:ALA:N	49:6J:305:LYS:HZ2	2.15	0.45
49:6J:278:TYR:HB2	49:6J:281:LYS:HE2	1.98	0.45
51:6M:1798:VAL:CG1	51:6M:1898:LEU:HA	2.47	0.45
51:6N:2114:CYS:SG	51:6N:2116:SER:N	2.90	0.45
51:6N:2146:ASN:ND2	51:6N:2150:THR:O	2.49	0.45
52:6P:24:UNK:O	52:6P:25:UNK:C	2.65	0.45
12:6g:165:LEU:HD11	12:6g:200:MET:HE2	1.99	0.45
12:6g:330:MET:HG3	12:6g:351:SER:OG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:7a:377:MET:HE2	12:7a:377:MET:HB2	1.61	0.45
13:7f:72:PRO:HG3	12:7g:1:MET:HG2	1.99	0.45
13:8d:74:VAL:O	13:8d:78:VAL:HG23	2.17	0.45
13:8d:195:LEU:HD12	13:8d:266:HIS:HE1	1.81	0.45
13:8f:74:VAL:O	13:8f:78:VAL:HG23	2.17	0.45
12:9c:3:GLU:N	12:9c:3:GLU:OE1	2.50	0.45
12:9c:50:TYR:CE2	12:9c:241:ARG:HD3	2.51	0.45
13:9f:21:TRP:CZ3	13:9f:52:PHE:HB3	2.50	0.45
12:9g:165:LEU:HD11	12:9g:200:MET:HE2	1.99	0.45
13:9h:21:TRP:HZ3	13:9h:52:PHE:HB3	1.82	0.45
12:Aa:70:PRO:HG3	12:Aa:92:PHE:HD2	1.81	0.45
13:Af:185:TYR:OH	13:Af:398:MET:HB3	2.16	0.45
13:Ah:185:TYR:OH	13:Ah:398:MET:HB3	2.16	0.45
12:Ba:95:THR:HA	13:Bb:133:GLN:HE22	1.82	0.45
12:Bc:3:GLU:OE1	12:Bc:3:GLU:N	2.50	0.45
12:Be:98:GLY:C	13:Bf:254:GLU:HG2	2.42	0.45
12:Bg:3:GLU:N	12:Bg:3:GLU:OE1	2.49	0.45
12:Bg:48:ASN:O	12:Bg:62:ARG:NH2	2.43	0.45
12:Bg:317:PHE:HB3	12:Bg:321:MET:CE	2.45	0.45
12:Bg:336:LYS:O	12:Bg:337:ASN:ND2	2.49	0.45
13:Bh:12:ALA:HB2	54:Bh:501:GTP:C8	2.51	0.45
13:Bh:74:VAL:O	13:Bh:78:VAL:HG23	2.17	0.45
13:Bh:185:TYR:OH	13:Bh:398:MET:HB3	2.16	0.45
13:Cb:30:ILE:HA	13:Cb:36:MET:HB3	1.98	0.45
13:Cb:100:ALA:HB1	12:Cc:252:LYS:HA	1.98	0.45
12:Ce:48:ASN:O	12:Ce:62:ARG:NH2	2.44	0.45
12:Ce:210:ILE:HG22	12:Ce:297:LYS:O	2.17	0.45
12:Cg:246:LEU:HB3	12:Cg:353:VAL:HG12	1.98	0.45
12:Da:52:ASN:HB3	12:Da:60:VAL:HG23	1.98	0.45
12:Da:176:SER:HB2	12:Da:181:GLU:OE1	2.17	0.45
13:Db:74:VAL:O	13:Db:78:VAL:HG23	2.17	0.45
13:Dd:273:ALA:N	13:Dd:375:VAL:O	2.48	0.45
1:0W:55:PRO:CB	1:0W:96:ASN:ND2	2.78	0.45
1:0W:169:VAL:N	1:0W:170:PRO:HD2	2.31	0.45
1:0W:413:HIS:CD2	1:0W:416:ALA:H	2.34	0.45
1:0W:417:LEU:HD13	1:0W:435:GLU:HA	1.98	0.45
1:0I:47:ARG:HG3	1:0I:84:ILE:HG12	1.98	0.45
1:0A:90:TYR:CE2	47:6B:110:LYS:CG	2.98	0.44
1:0A:353:LYS:HB2	1:0A:396:LEU:HD13	2.00	0.44
1:0B:134:LEU:HA	1:0B:142:LYS:HG2	1.99	0.44
1:0B:241:VAL:O	1:0B:245:GLU:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0C:344:LEU:HD23	1:0C:347:GLU:OE2	2.18	0.44
1:0D:354:SER:HB2	1:0D:399:LYS:HG3	1.99	0.44
1:0F:348:PRO:HA	1:0F:353:LYS:HE3	1.99	0.44
1:0M:133:CYS:HB2	1:0M:145:SER:HB3	1.98	0.44
1:0M:185:ARG:NH1	1:0M:224:LYS:HD2	2.31	0.44
1:0M:392:SER:OG	1:0M:396:LEU:HD23	2.17	0.44
1:0O:61:ALA:O	1:0O:65:LEU:HD23	2.17	0.44
1:0P:341:VAL:HG22	1:0P:379:CYS:SG	2.57	0.44
1:0Q:47:ARG:HG3	1:0Q:84:ILE:HG12	1.98	0.44
1:0Q:328:ALA:HA	1:0Q:331:VAL:HG22	1.99	0.44
1:0R:218:VAL:HG22	1:0R:229:VAL:HG21	1.99	0.44
1:0R:287:GLN:HA	1:0R:327:LEU:HD21	1.98	0.44
1:0S:154:GLY:O	1:0S:197:HIS:NE2	2.36	0.44
1:0U:85:LEU:O	1:0U:89:VAL:HG13	2.17	0.44
1:0U:231:CYS:HB3	1:0U:270:HIS:CE1	2.51	0.44
1:0U:248:VAL:HG21	1:0U:285:LEU:HD22	1.99	0.44
1:0X:355:ALA:O	1:0X:359:THR:HG23	2.17	0.44
1:0Y:175:CYS:HB2	1:0Y:187:ALA:HB2	1.99	0.44
1:0Y:198:THR:HG22	1:0Y:200:GLU:H	1.82	0.44
1:0Z:86:PRO:HA	1:0Z:89:VAL:HG12	1.98	0.44
1:1A:417:LEU:HD13	1:1A:435:GLU:HA	1.99	0.44
1:1B:85:LEU:HB2	1:1B:124:SER:OG	2.18	0.44
1:1B:88:LEU:O	1:1B:91:SER:HB2	2.17	0.44
1:1C:380:LEU:HD12	1:1C:381:ALA:N	2.32	0.44
2:1D:39:LEU:O	2:1D:43:LEU:HD23	2.18	0.44
2:1D:186:GLU:HB2	2:1D:188:LEU:HD12	2.00	0.44
2:1D:186:GLU:HB2	2:1D:188:LEU:CD1	2.46	0.44
2:1E:29:GLN:HG2	2:1E:33:ASN:HD21	1.82	0.44
2:1F:332:ASP:OD2	2:1F:373:ARG:NH1	2.43	0.44
2:1G:78:GLN:NE2	2:1G:119:VAL:HG23	2.31	0.44
5:1M:412:SER:H	5:1M:449:ILE:CD1	2.30	0.44
5:1M:446:LYS:HG3	5:1M:468:LEU:HB3	1.99	0.44
5:1M:481:PRO:HG2	12:1g:410:GLU:OE2	2.17	0.44
5:1M:486:ASP:OD1	5:1M:487:LYS:N	2.50	0.44
6:1N:1189:ASN:HB3	6:1N:1210:LEU:HD21	1.98	0.44
6:1N:2163:GLY:O	6:1N:2167:ARG:HG3	2.17	0.44
6:1N:2687:LEU:HD12	6:1N:2688:LEU:HD23	1.99	0.44
7:1O:1256:HIS:HB2	8:1P:1012:LEU:HD21	2.00	0.44
10:1R:430:HIS:CE1	12:Aa:77:ARG:HD2	2.51	0.44
12:1e:16:ILE:HD11	12:1e:229:ILE:HG21	1.98	0.44
12:1e:127:CYS:SG	12:1e:128:ASP:N	2.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1e:172:SER:HB2	12:1e:205:GLU:CG	2.48	0.44
13:1f:195:LEU:HD12	13:1f:266:HIS:HE1	1.81	0.44
13:1f:222:PRO:O	12:1g:324:LYS:HB3	2.17	0.44
13:1h:155:GLU:O	13:1h:159:VAL:HG23	2.16	0.44
14:2F:167:TRP:CH2	12:Aa:282:ARG:HB3	2.48	0.44
14:2G:43:THR:HA	12:De:74:ASP:OD1	2.18	0.44
16:2I:46:UNK:CB	13:Cd:46:ASP:OD1	2.66	0.44
24:2V:151:PHE:C	13:Df:176:GLN:HE21	2.23	0.44
12:2a:3:GLU:HB3	12:2a:62:ARG:NH2	2.32	0.44
12:2a:139:LEU:O	12:2a:171:PRO:HD3	2.17	0.44
12:2c:161:ASP:N	12:2c:161:ASP:OD1	2.49	0.44
13:2d:175:PRO:O	13:2d:394:LYS:NZ	2.46	0.44
12:2e:23:VAL:HA	12:2e:26:ASP:OD2	2.17	0.44
12:2e:396:HIS:CG	13:2f:263:PRO:HD3	2.52	0.44
12:2g:39:ASP:OD1	12:2g:39:ASP:N	2.47	0.44
29:3E:1165:ASP:O	29:3E:1169:LEU:HG	2.18	0.44
32:3J:116:TYR:CE1	32:3J:172:VAL:HG23	2.52	0.44
34:3M:90:GLU:O	34:3M:93:VAL:HG22	2.17	0.44
34:3M:280:TRP:HB2	34:3M:452:HIS:CE1	2.53	0.44
34:3M:280:TRP:O	34:3M:283:THR:HG22	2.17	0.44
34:3O:82:ILE:O	34:3O:86:GLN:HG3	2.18	0.44
34:3O:89:ILE:O	34:3O:93:VAL:HG13	2.17	0.44
34:3O:497:MET:HA	34:3O:500:TYR:CD1	2.51	0.44
34:3P:485:TYR:CE1	34:3S:251:LEU:HD12	2.52	0.44
34:3Q:436:ARG:C	34:3Q:439:PRO:HD2	2.41	0.44
34:3R:99:ARG:NH2	34:4B:240:GLU:OE2	2.50	0.44
34:3R:255:HIS:CA	34:3R:474:TRP:HE1	2.21	0.44
34:3R:467:LEU:HB3	34:3W:500:TYR:HE1	1.82	0.44
34:3R:487:ALA:HB2	37:4H:1795:ARG:HD3	1.99	0.44
34:3V:303:SER:HA	34:3V:306:VAL:HG12	1.97	0.44
34:3W:352:LEU:HD11	34:3W:382:LEU:HD11	1.98	0.44
34:3Z:325:ASP:O	34:3Z:329:THR:HG23	2.16	0.44
13:3f:178:SER:OG	12:3g:347:ASN:ND2	2.50	0.44
13:3f:407:TRP:HE1	12:3g:258:ILE:HB	1.82	0.44
34:4B:82:ILE:O	34:4B:86:GLN:HG3	2.17	0.44
35:4C:736:ARG:HG2	35:4C:775:LEU:HG	1.98	0.44
37:4E:526:ARG:NH1	37:4E:681:GLU:OE2	2.40	0.44
37:4F:510:HIS:CE1	37:4F:543:ASN:HB2	2.52	0.44
37:4F:1316:GLN:C	37:4F:1321:THR:HG21	2.43	0.44
37:4F:1349:THR:HG22	37:4F:1350:ILE:N	2.31	0.44
37:4G:577:LEU:HD22	42:5E:135:ARG:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:972:PHE:O	37:4G:1071:THR:HA	2.16	0.44
37:4G:1136:ARG:HD3	38:4L:29:LYS:HD2	1.99	0.44
37:4G:1162:VAL:HG23	37:4G:1299:ARG:HH22	1.82	0.44
37:4H:585:VAL:HG23	37:4H:586:PHE:N	2.32	0.44
37:4H:773:ARG:HD2	37:4H:1636:VAL:CG1	2.46	0.44
37:4H:969:LEU:HG	37:4H:970:SER:N	2.32	0.44
37:4H:1144:LEU:HB2	37:4H:1156:LEU:O	2.17	0.44
37:4H:1316:GLN:C	37:4H:1321:THR:H	2.18	0.44
37:4H:1756:PRO:HB2	37:4H:1758:VAL:HG12	1.98	0.44
38:4L:36:VAL:O	38:4L:37:GLY:C	2.55	0.44
38:4N:38:VAL:HG13	38:4N:41:LYS:HB3	1.99	0.44
38:4N:67:ALA:HA	38:4N:70:LYS:CB	2.40	0.44
38:4O:22:GLU:C	38:4O:25:PRO:HD2	2.41	0.44
39:4Q:119:LYS:HA	39:4Q:122:LEU:HD12	1.99	0.44
40:4T:178:SER:OG	40:4T:180:SER:N	2.48	0.44
40:4T:224:TYR:O	40:4T:257:VAL:O	2.35	0.44
40:4U:224:TYR:O	40:4U:257:VAL:O	2.35	0.44
40:4V:229:VAL:HG12	40:4V:233:CYS:SG	2.58	0.44
13:4f:130:THR:OG1	13:4f:131:GLY:N	2.49	0.44
13:4h:74:VAL:O	13:4h:78:VAL:HG23	2.17	0.44
41:5A:165:SER:CA	43:5L:165:LEU:HD22	2.47	0.44
41:5D:77:GLY:N	41:5D:92:TRP:O	2.46	0.44
42:5H:95:GLU:HA	42:5H:98:PHE:CB	2.46	0.44
42:5H:139:LEU:HG	43:5L:146:TYR:CG	2.48	0.44
43:5I:39:LEU:CD1	43:5I:51:HIS:CD2	3.01	0.44
43:5I:51:HIS:NE2	43:5I:146:TYR:CZ	2.85	0.44
43:5K:16:GLU:C	43:5K:18:ILE:N	2.75	0.44
43:5K:101:LYS:O	43:5K:105:LEU:HG	2.17	0.44
43:5L:4:ASN:HB3	43:5L:116:VAL:HG22	1.99	0.44
13:5b:74:VAL:O	13:5b:78:VAL:HG23	2.17	0.44
12:5c:232:VAL:HG22	12:5c:270:PHE:HB2	1.98	0.44
12:5e:377:MET:HE2	12:5e:377:MET:HB2	1.59	0.44
13:5h:21:TRP:HZ3	13:5h:52:PHE:HB3	1.82	0.44
47:6A:281:MET:O	47:6A:285:VAL:HG13	2.18	0.44
47:6A:1228:VAL:HG11	47:6A:1242:LEU:HD21	1.99	0.44
47:6A:1929:LEU:HA	51:6M:1922:TRP:CH2	2.52	0.44
47:6B:19:ASP:OD2	47:6B:19:ASP:N	2.46	0.44
47:6B:281:MET:O	47:6B:285:VAL:HG13	2.17	0.44
47:6B:407:LEU:HG	47:6B:411:ARG:NE	2.33	0.44
47:6B:534:ALA:O	47:6B:538:VAL:HG23	2.17	0.44
47:6B:1203:ARG:HB3	51:6N:2456:VAL:HG22	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:1289:VAL:CG1	47:6B:1334:ALA:HB1	2.46	0.44
47:6B:1817:GLU:HG2	47:6B:1818:PRO:HD3	1.98	0.44
47:6B:1929:LEU:HA	51:6N:1922:TRP:CH2	2.52	0.44
3:6D:821:LYS:HE3	3:6D:821:LYS:HB2	1.75	0.44
48:6F:237:VAL:HG12	48:6F:237:VAL:O	2.17	0.44
49:6G:284:ILE:O	49:6G:333:VAL:HA	2.17	0.44
49:6G:446:GLU:HG3	49:6G:447:ARG:HD2	1.98	0.44
49:6H:301:ASP:OD1	49:6H:303:ASP:N	2.42	0.44
49:6J:290:SER:HA	49:6J:293:PHE:CE1	2.52	0.44
50:6K:459:ASN:OD1	50:6K:460:ASN:N	2.50	0.44
50:6K:504:LYS:NZ	50:6K:506:LYS:HB3	2.32	0.44
50:6L:313:MET:HE2	50:6L:317:ARG:HE	1.81	0.44
50:6L:369:ILE:HD12	50:6L:374:ALA:CB	2.47	0.44
51:6N:1798:VAL:CG1	51:6N:1898:LEU:HA	2.47	0.44
52:6Q:24:UNK:O	52:6Q:25:UNK:C	2.65	0.44
12:6c:165:LEU:HD11	12:6c:200:MET:HE2	1.99	0.44
12:7a:246:LEU:HD11	12:7a:323:THR:HG21	1.99	0.44
12:7c:165:LEU:HD11	12:7c:200:MET:HE2	1.99	0.44
13:7d:30:ILE:HA	13:7d:36:MET:HB3	1.98	0.44
12:7e:21:TRP:CZ2	12:7e:63:ALA:HB2	2.52	0.44
12:7e:172:SER:HB2	12:7e:205:GLU:CG	2.47	0.44
13:8f:195:LEU:HD12	13:8f:266:HIS:HE1	1.81	0.44
12:8g:3:GLU:N	12:8g:3:GLU:OE1	2.50	0.44
12:8g:113:ILE:HA	12:8g:116:VAL:CG2	2.44	0.44
13:9d:21:TRP:HZ3	13:9d:52:PHE:HB3	1.82	0.44
12:9e:1:MET:HE2	12:9e:1:MET:HB3	1.60	0.44
12:9e:248:ALA:HA	12:9e:252:LYS:CD	2.36	0.44
12:9g:193:VAL:HG13	12:9g:262:ARG:HB2	1.99	0.44
13:9h:191:THR:HA	13:9h:194:LEU:HG	1.98	0.44
13:Ab:185:TYR:OH	13:Ab:398:MET:HB3	2.16	0.44
54:Ab:501:GTP:O3G	12:Ac:252:LYS:HE2	2.17	0.44
12:Ae:271:THR:OG1	12:Ae:365:ALA:HB3	2.17	0.44
13:Ah:74:VAL:O	13:Ah:78:VAL:HG23	2.17	0.44
13:Bb:223:THR:HA	12:Bc:323:THR:HG22	1.99	0.44
12:Bc:229:ILE:HA	12:Bc:300:MET:HE1	1.97	0.44
13:Bf:248:LEU:HD23	13:Bf:248:LEU:HA	1.79	0.44
13:Cd:21:TRP:HZ3	13:Cd:52:PHE:HB3	1.82	0.44
13:Cd:30:ILE:HA	13:Cd:36:MET:HB3	1.98	0.44
13:Cf:191:THR:HA	13:Cf:194:LEU:HG	1.98	0.44
12:Cg:20:PHE:HA	12:Cg:230:SER:HB2	1.98	0.44
12:Cg:27:GLU:OE2	12:Cg:318:ARG:NH2	2.39	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ch:191:THR:HA	13:Ch:194:LEU:HG	1.98	0.44
12:De:232:VAL:HG22	12:De:270:PHE:HB2	1.98	0.44
13:Df:74:VAL:O	13:Df:78:VAL:HG23	2.17	0.44
1:0H:403:ALA:O	1:0H:406:SER:OG	2.31	0.44
1:0W:85:LEU:HD23	1:0W:88:LEU:HD12	1.99	0.44
1:0W:302:ILE:HG23	1:0W:310:ARG:HE	1.82	0.44
1:0K:56:SER:O	1:0K:59:GLN:HG2	2.17	0.44
44:5P:55:MET:O	44:5P:59:VAL:HG12	2.16	0.44
1:0A:218:VAL:HG22	1:0A:229:VAL:CG2	2.47	0.44
1:0B:44:ALA:O	1:0B:48:PRO:HD3	2.17	0.44
1:0C:169:VAL:O	1:0C:173:VAL:HG23	2.17	0.44
1:0C:306:ALA:HB3	1:0C:309:ASN:ND2	2.31	0.44
1:0D:336:ALA:O	1:0D:340:LEU:HG	2.18	0.44
1:0F:3:THR:OG1	1:0F:4:ARG:N	2.51	0.44
1:0F:56:SER:O	1:0F:59:GLN:HG2	2.17	0.44
1:0F:85:LEU:O	1:0F:89:VAL:HG13	2.18	0.44
1:0F:248:VAL:HG12	1:0F:253:PHE:CZ	2.51	0.44
1:0L:238:LYS:NZ	1:0L:239:HIS:CD2	2.86	0.44
1:0M:403:ALA:O	1:0M:407:VAL:HG23	2.17	0.44
1:0M:417:LEU:HD13	1:0M:435:GLU:HA	2.00	0.44
1:0P:21:VAL:HG21	1:0P:57:ILE:HG23	2.00	0.44
1:0P:196:LYS:HB3	1:0P:235:GLN:HG3	1.99	0.44
1:0Q:349:GLU:HB2	1:0Q:352:LEU:HB3	2.00	0.44
1:0R:79:VAL:HG13	1:0R:84:ILE:HB	1.99	0.44
1:0R:89:VAL:HG11	1:0R:125:GLY:HA2	1.98	0.44
1:0R:269:LYS:O	1:0R:273:THR:HG23	2.17	0.44
1:0T:210:ALA:O	1:0T:214:LEU:HG	2.16	0.44
1:0V:28:ALA:HB1	1:0V:67:ARG:HB2	1.99	0.44
1:0X:108:ARG:CD	1:0X:147:TRP:HB3	2.41	0.44
1:1A:67:ARG:HA	1:1A:70:ASN:ND2	2.32	0.44
1:1A:320:ILE:HB	1:1A:327:LEU:HD13	1.98	0.44
1:1C:64:ALA:O	1:1C:68:LEU:HG	2.17	0.44
1:1C:196:LYS:HA	1:1C:239:HIS:HE1	1.82	0.44
2:1E:311:ALA:O	2:1E:314:VAL:HG22	2.17	0.44
2:1F:78:GLN:NE2	2:1F:118:PRO:HD2	2.32	0.44
2:1G:465:ASP:CB	3:1I:1043:GLU:HB2	2.46	0.44
3:1H:952:GLY:C	47:6A:384:GLU:CD	2.85	0.44
3:1I:186:ARG:HA	3:1I:189:LEU:CD2	2.47	0.44
4:1J:82:ILE:HD12	4:1J:82:ILE:N	2.31	0.44
4:1K:82:ILE:HD12	4:1K:82:ILE:N	2.31	0.44
5:1L:609:ASP:HB2	5:1L:611:THR:HG23	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1N:151:HIS:HE1	6:1N:170:SER:OG	2.01	0.44
6:1N:2473:LEU:HB3	6:1N:2477:LEU:HB2	1.98	0.44
6:1N:2648:ALA:HA	6:1N:2695:THR:HG22	1.98	0.44
7:1O:103:LEU:H	7:1O:111:ARG:HH22	1.65	0.44
7:1O:1166:LEU:HD22	8:1P:999:LEU:HA	1.99	0.44
10:1R:334:PRO:CB	13:Ab:415:GLU:OE2	2.65	0.44
10:1S:81:LEU:O	10:1S:85:LEU:HG	2.17	0.44
13:1d:407:TRP:CD2	12:1e:255:VAL:HG22	2.51	0.44
12:1e:3:GLU:HB3	12:1e:62:ARG:HH21	1.82	0.44
12:1g:120:VAL:HG21	12:1g:155:ILE:HD11	1.99	0.44
17:2K:3:UNK:HA	13:Df:26:LEU:HD23	1.98	0.44
24:2U:170:ALA:HB1	24:2U:174:MET:HE3	2.00	0.44
12:2a:313:ALA:O	12:2a:349:VAL:HA	2.18	0.44
13:2d:349:THR:OG1	13:2d:350:GLY:N	2.49	0.44
12:2e:257:LEU:HD21	12:2e:314:SER:HB2	2.00	0.44
12:2g:27:GLU:N	12:2g:359:LYS:HZ1	2.15	0.44
12:2g:130:LEU:HB3	12:2g:162:ARG:HD3	2.00	0.44
12:2g:176:SER:HB2	12:2g:181:GLU:OE1	2.16	0.44
30:3F:308:ILE:O	30:3F:312:ARG:HG3	2.18	0.44
31:3H:109:LEU:HD21	31:3H:214:ARG:HG3	1.99	0.44
31:3I:407:LEU:O	31:3I:410:ARG:HG2	2.17	0.44
32:3K:155:ARG:HG3	32:3K:243:PHE:HB2	1.97	0.44
33:3L:180:LEU:HD12	33:3L:181:PRO:HD2	1.98	0.44
34:3N:112:LYS:HA	34:3N:112:LYS:CE	2.46	0.44
34:3N:481:LEU:O	34:3N:484:GLU:HG2	2.17	0.44
34:3O:356:PHE:HZ	34:3O:371:ALA:O	2.00	0.44
34:3O:436:ARG:C	34:3O:439:PRO:HD2	2.41	0.44
34:3P:85:TYR:HB3	34:3P:324:HIS:CD2	2.53	0.44
34:3P:446:GLN:HA	34:3P:449:GLU:CD	2.43	0.44
34:3T:92:THR:HG22	34:3T:95:ARG:NH1	2.32	0.44
34:3U:356:PHE:CZ	34:3U:375:TYR:HB2	2.52	0.44
34:3U:461:ALA:O	34:3U:464:LEU:HG	2.17	0.44
34:3V:203:ALA:HB1	34:3Z:289:ALA:HB2	1.99	0.44
13:3b:21:TRP:HZ3	13:3b:52:PHE:HB3	1.82	0.44
12:3c:3:GLU:N	12:3c:3:GLU:OE1	2.50	0.44
12:3c:173:PRO:HA	12:3c:380:ARG:HD2	1.97	0.44
12:3c:237:THR:OG1	12:3c:241:ARG:NH1	2.50	0.44
35:4C:342:PHE:CZ	35:4C:355:ALA:HB2	2.52	0.44
35:4C:908:SER:CA	35:4C:1077:ALA:HB3	2.41	0.44
35:4C:1086:ILE:HG13	37:4E:717:MET:SD	2.57	0.44
37:4E:580:GLU:C	43:5L:35:LYS:CA	2.91	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:969:LEU:O	37:4F:970:SER:HB3	2.18	0.44
37:4F:1082:LEU:HD22	38:4N:42:ILE:H	1.82	0.44
37:4F:1296:VAL:HG21	37:4F:1759:MET:SD	2.57	0.44
37:4G:526:ARG:NH2	37:4G:681:GLU:OE2	2.49	0.44
37:4H:853:VAL:HG22	37:4H:854:TYR:N	2.33	0.44
37:4H:972:PHE:HE2	37:4H:974:VAL:N	2.15	0.44
37:4H:1137:ALA:O	37:4H:1145:VAL:CG2	2.64	0.44
38:4I:77:VAL:CG2	38:4L:61:LEU:HD23	2.23	0.44
38:4K:52:TYR:O	38:4K:56:THR:HG23	2.18	0.44
38:4L:48:PRO:CD	38:4L:49:ILE:HD12	2.45	0.44
38:4M:39:HIS:C	38:4M:41:LYS:N	2.74	0.44
39:4S:103:TRP:CZ2	44:5N:128:MET:HA	2.52	0.44
40:4T:223:LEU:CD2	40:4T:260:GLU:HG3	2.47	0.44
40:4T:643:MET:SD	40:4T:646:LEU:HD12	2.57	0.44
40:4U:178:SER:OG	40:4U:180:SER:N	2.48	0.44
40:4V:156:THR:O	40:4V:160:THR:HG23	2.17	0.44
13:4b:74:VAL:O	13:4b:78:VAL:HG23	2.17	0.44
13:4d:74:VAL:O	13:4d:78:VAL:HG23	2.17	0.44
13:4h:21:TRP:HZ3	13:4h:52:PHE:HB3	1.82	0.44
41:5A:141:ASN:CB	43:5L:168:GLU:HG3	2.44	0.44
42:5H:33:ALA:HB2	42:5H:51:LEU:HD12	1.99	0.44
42:5H:128:PHE:O	42:5H:130:ALA:C	2.60	0.44
42:5H:136:HIS:CD2	43:5L:50:ILE:CG2	3.00	0.44
42:5H:157:LEU:H	43:5L:157:ALA:C	2.25	0.44
43:5J:16:GLU:C	43:5J:18:ILE:N	2.75	0.44
43:5J:39:LEU:CD1	43:5J:51:HIS:CD2	3.01	0.44
43:5K:143:MET:O	43:5K:147:THR:CG2	2.65	0.44
44:5R:103:PHE:CE1	44:5R:141:ASN:HB2	2.52	0.44
44:5U:93:PHE:CZ	44:5U:145:PHE:CD2	3.06	0.44
12:5a:113:ILE:HD11	12:5a:154:LYS:HG3	1.99	0.44
12:5c:274:THR:CG2	12:5c:279:GLN:HG2	2.48	0.44
12:5e:172:SER:HB2	12:5e:205:GLU:HG3	1.99	0.44
12:5e:392:LYS:HG2	12:5e:395:LEU:HD22	1.98	0.44
13:5f:15:GLN:HB3	13:5f:228:ASN:ND2	2.31	0.44
13:5f:21:TRP:HZ3	13:5f:52:PHE:HB3	1.82	0.44
12:5g:232:VAL:HG22	12:5g:270:PHE:HB2	1.98	0.44
12:5g:316:LEU:HB2	12:5g:366:THR:HG23	1.99	0.44
12:5g:330:MET:HG3	12:5g:351:SER:OG	2.17	0.44
13:5h:74:VAL:O	13:5h:78:VAL:HG23	2.17	0.44
13:5h:349:THR:OG1	13:5h:350:GLY:N	2.49	0.44
47:6A:6:ARG:NH1	47:6A:6:ARG:C	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:534:ALA:O	47:6A:538:VAL:HG23	2.17	0.44
47:6A:560:ILE:HG12	47:6A:1306:LEU:HD21	1.99	0.44
47:6B:1228:VAL:HG11	47:6B:1242:LEU:HD21	1.99	0.44
48:6E:204:LEU:HD11	48:6E:210:LEU:HD22	1.99	0.44
48:6E:215:LEU:HB2	48:6E:236:ASP:O	2.17	0.44
48:6E:237:VAL:HG12	48:6E:237:VAL:O	2.17	0.44
48:6E:395:TRP:O	48:6E:395:TRP:CG	2.70	0.44
48:6E:800:LEU:HA	49:6I:17:GLU:OE2	2.17	0.44
48:6F:204:LEU:HD11	48:6F:210:LEU:HD22	2.00	0.44
49:6G:64:VAL:HG22	49:6G:151:ASN:HB2	1.99	0.44
49:6G:112:ASN:ND2	49:6G:147:LYS:O	2.50	0.44
49:6G:148:LEU:HD23	49:6G:148:LEU:HA	1.70	0.44
49:6H:112:ASN:ND2	49:6H:147:LYS:O	2.50	0.44
49:6H:284:ILE:O	49:6H:333:VAL:HA	2.17	0.44
49:6H:446:GLU:HG3	49:6H:447:ARG:HD2	1.98	0.44
49:6I:284:ILE:O	49:6I:333:VAL:HA	2.17	0.44
50:6K:516:LEU:HB2	50:6K:521:ILE:HD11	2.00	0.44
50:6K:530:LYS:O	50:6K:531:TYR:C	2.60	0.44
50:6L:405:LEU:HB3	50:6L:450:GLU:O	2.17	0.44
51:6M:2146:ASN:ND2	51:6M:2150:THR:O	2.49	0.44
51:6N:2044:ALA:H	51:6N:2077:LEU:HB3	1.83	0.44
12:6a:66:MET:SD	12:6a:116:VAL:HG21	2.57	0.44
12:7c:3:GLU:N	12:7c:3:GLU:OE1	2.51	0.44
12:8a:42:LEU:HD13	12:8a:356:ILE:HD11	1.99	0.44
13:8b:56:THR:HG21	13:9b:283:HIS:O	2.17	0.44
13:8h:74:VAL:O	13:8h:78:VAL:HG23	2.17	0.44
12:9a:185:ALA:O	12:9a:189:VAL:HG23	2.17	0.44
13:9b:68:LEU:HD12	13:9b:93:ILE:HB	1.99	0.44
12:Aa:175:VAL:HG11	13:Ab:332:VAL:HG13	1.98	0.44
12:Aa:417:ASP:O	12:Aa:421:GLU:HG2	2.17	0.44
12:Ac:232:VAL:HG22	12:Ac:270:PHE:HB2	1.98	0.44
13:Ad:74:VAL:O	13:Ad:78:VAL:HG23	2.17	0.44
13:Bb:68:LEU:HD12	13:Bb:93:ILE:HB	1.99	0.44
13:Bb:90:GLU:OE1	13:Bb:121:ARG:NE	2.44	0.44
12:Be:207:LEU:HD23	12:Be:210:ILE:HD11	1.97	0.44
12:Be:267:MET:HE1	12:Be:305:PRO:HG3	1.99	0.44
13:Cb:21:TRP:HZ3	13:Cb:52:PHE:HB3	1.82	0.44
12:Ce:101:TRP:HD1	12:Ce:145:SER:HG	1.59	0.44
12:Ce:313:ALA:O	12:Ce:349:VAL:HA	2.17	0.44
13:Ch:90:GLU:OE1	13:Ch:121:ARG:NE	2.44	0.44
13:Db:349:THR:OG1	13:Db:350:GLY:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Dd:74:VAL:O	13:Dd:78:VAL:HG23	2.17	0.44
1:0H:175:CYS:HB3	1:0H:187:ALA:HB2	1.99	0.44
1:0H:338:PRO:HB2	1:0H:339:PRO:HD3	1.98	0.44
1:0I:359:THR:O	1:0I:363:ILE:HG13	2.17	0.44
1:0A:90:TYR:OH	47:6B:110:LYS:HG3	2.18	0.44
1:0A:269:LYS:O	1:0A:273:THR:HG23	2.17	0.44
1:0D:45:LEU:O	1:0D:49:LEU:HD23	2.17	0.44
1:0E:245:GLU:HA	1:0E:248:VAL:HG22	1.99	0.44
1:0F:275:VAL:HG13	1:0F:289:VAL:HG11	1.98	0.44
1:0G:302:ILE:HG23	1:0G:310:ARG:HE	1.82	0.44
1:0M:337:LEU:O	1:0M:341:VAL:HG23	2.17	0.44
1:0P:117:LEU:O	1:0P:121:VAL:HG23	2.18	0.44
1:0P:349:GLU:HB3	1:0P:351:HIS:CE1	2.51	0.44
1:0Q:359:THR:O	1:0Q:363:ILE:HG13	2.17	0.44
1:0R:143:GLU:HB2	1:0R:183:LEU:CD2	2.46	0.44
1:0U:318:GLY:HA3	1:0U:359:THR:HG22	2.00	0.44
1:0Y:105:PHE:O	1:0Y:108:ARG:HG2	2.18	0.44
1:0Z:283:PRO:HG3	1:0Z:323:PHE:CD1	2.52	0.44
1:1A:12:ARG:O	1:1A:16:GLU:HG2	2.18	0.44
1:1B:182:SER:O	1:1B:186:ILE:HG12	2.17	0.44
1:1B:309:ASN:OD1	1:1B:310:ARG:N	2.50	0.44
1:1B:387:GLU:HA	1:1B:397:LYS:CE	2.44	0.44
1:1C:86:PRO:HA	1:1C:89:VAL:HG22	1.98	0.44
2:1D:345:GLY:HA2	2:1D:386:LEU:HD13	1.99	0.44
2:1D:426:LEU:O	2:1D:429:MET:N	2.50	0.44
2:1F:232:ALA:C	2:1F:235:PRO:HD2	2.43	0.44
2:1G:207:LYS:CG	2:1G:211:HIS:HE1	2.17	0.44
4:1J:58:ARG:NH1	4:1J:88:GLN:HE22	2.08	0.44
4:1K:21:ILE:HG21	13:Bd:419:SER:HB3	1.99	0.44
5:1L:386:THR:O	5:1L:387:TYR:HB2	2.18	0.44
5:1L:483:GLY:N	5:1L:487:LYS:HD2	2.32	0.44
5:1M:451:ILE:HB	5:1M:463:GLU:HG3	1.99	0.44
5:1M:564:ARG:HD3	13:1f:434:GLU:HB2	1.98	0.44
5:1M:609:ASP:HB2	5:1M:611:THR:HG23	1.98	0.44
7:1O:61:TYR:HB3	7:1O:104:PRO:O	2.16	0.44
7:1O:1630:ALA:HB3	7:1O:1839:LEU:HD21	1.99	0.44
7:1O:3078:PHE:CZ	7:1O:3094:GLY:HA2	2.52	0.44
10:1R:341:SER:OG	10:1R:342:LEU:N	2.51	0.44
10:1R:392:LEU:HD11	13:Bb:338:LYS:HD3	1.99	0.44
12:1a:271:THR:OG1	12:1a:272:PRO:HA	2.17	0.44
12:1c:284:LEU:CD2	12:1c:362:LYS:HB3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1d:407:TRP:CE3	12:1e:255:VAL:HG22	2.53	0.44
14:2F:44:LYS:NZ	13:Db:245:ASP:OD2	2.48	0.44
22:2P:41:UNK:CB	13:6f:176:GLN:HE22	2.29	0.44
24:2U:152:GLU:OE2	24:2U:157:GLU:HB3	2.17	0.44
24:2V:132:ARG:HD3	24:2V:158:VAL:HG12	2.00	0.44
25:2W:60:UNK:C	25:2W:62:UNK:N	2.78	0.44
12:2a:240:LEU:HG	12:2a:249:ASP:OD1	2.17	0.44
13:2b:349:THR:OG1	13:2b:350:GLY:N	2.49	0.44
12:2c:73:MET:O	12:2c:76:VAL:HG22	2.18	0.44
13:2d:21:TRP:HZ3	13:2d:52:PHE:HB3	1.82	0.44
12:2e:171:PRO:HA	12:2e:181:GLU:OE2	2.18	0.44
12:2e:335:ASN:O	12:2e:338:SER:OG	2.32	0.44
13:2f:21:TRP:HZ3	13:2f:52:PHE:HB3	1.82	0.44
13:2h:349:THR:OG1	13:2h:350:GLY:N	2.49	0.44
30:3F:294:ALA:HA	12:6e:390:ARG:O	2.18	0.44
31:3I:154:LEU:HA	31:3I:157:ARG:HE	1.82	0.44
32:3J:83:PRO:HB3	32:3J:121:ASP:OD2	2.16	0.44
34:3O:49:PHE:HA	34:3O:288:MET:HE1	1.99	0.44
34:3P:498:LEU:HD12	34:3P:499:ALA:N	2.33	0.44
34:3R:288:MET:HE3	34:3R:288:MET:HB2	1.45	0.44
34:3R:352:LEU:HD21	34:3R:378:SER:OG	2.17	0.44
34:3S:280:TRP:HB2	34:3S:452:HIS:CE1	2.53	0.44
34:3U:325:ASP:O	34:3U:329:THR:HG23	2.17	0.44
34:3V:234:ARG:O	34:3V:235:LEU:HD23	2.17	0.44
34:3X:289:ALA:HB2	34:4A:203:ALA:HB1	1.99	0.44
34:3Y:107:TYR:HE2	34:3Y:383:ARG:HA	1.83	0.44
12:3a:42:LEU:HD13	12:3a:356:ILE:HD11	1.99	0.44
12:3c:68:LEU:HD21	12:3c:147:MET:SD	2.58	0.44
12:3c:274:THR:CG2	12:3c:279:GLN:HG2	2.47	0.44
13:3d:21:TRP:HZ3	13:3d:52:PHE:HB3	1.82	0.44
12:3e:161:ASP:OD1	12:3e:161:ASP:N	2.45	0.44
13:3f:30:ILE:HA	13:3f:36:MET:HB3	1.98	0.44
34:4A:118:HIS:CE1	34:4A:356:PHE:CB	3.00	0.44
34:4B:197:ASN:OD1	34:4B:198:ASN:N	2.51	0.44
34:4B:361:LEU:HD11	34:4B:371:ALA:HB2	1.99	0.44
35:4C:863:PRO:HB3	35:4C:890:SER:OG	2.17	0.44
35:4C:907:LEU:HD22	35:4C:1117:THR:HG22	1.99	0.44
36:4D:267:PRO:HB3	36:4D:295:PRO:HA	1.99	0.44
37:4E:585:VAL:CB	43:5L:10:LEU:CG	2.82	0.44
37:4F:540:VAL:CB	38:4N:72:ARG:HH12	2.31	0.44
37:4F:972:PHE:HE1	37:4F:1072:ALA:O	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1075:VAL:HG22	38:4N:38:VAL:HG21	1.97	0.44
37:4F:1322:ARG:HH11	37:4F:1322:ARG:HD3	1.37	0.44
37:4F:1341:ILE:CG1	37:4F:1350:ILE:HD13	2.46	0.44
37:4G:533:MET:HE2	38:4I:58:VAL:HG12	1.99	0.44
37:4G:583:GLU:OE2	43:5I:28:THR:HB	2.18	0.44
37:4G:1082:LEU:CA	38:4L:35:ALA:O	2.65	0.44
37:4G:1323:ILE:CG1	38:4L:26:GLU:CG	2.95	0.44
37:4H:605:LEU:HD12	37:4H:688:LEU:HD21	1.99	0.44
37:4H:954:SER:O	38:4M:48:PRO:CA	2.63	0.44
37:4H:1082:LEU:CD2	37:4H:1094:ALA:HB3	2.44	0.44
37:4H:1084:ARG:HB3	38:4M:38:VAL:CG2	2.48	0.44
37:4H:1093:VAL:CA	38:4M:35:ALA:HB3	2.47	0.44
37:4H:1366:VAL:HG21	37:4H:1396:LEU:HB3	1.99	0.44
37:4H:1753:GLN:NE2	38:4M:24:THR:CG2	2.77	0.44
38:4I:32:GLU:OE1	38:4I:32:GLU:HA	2.18	0.44
38:4J:84:LEU:HB3	38:4M:77:VAL:HG21	1.94	0.44
38:4K:38:VAL:HG13	38:4K:41:LYS:HB3	1.99	0.44
38:4K:39:HIS:C	38:4K:41:LYS:N	2.74	0.44
38:4K:76:PRO:CD	38:4N:53:LEU:HD23	2.35	0.44
38:4L:26:GLU:CD	38:4L:26:GLU:CB	2.70	0.44
38:4L:38:VAL:HG13	38:4L:41:LYS:HB3	1.99	0.44
38:4M:57:VAL:O	38:4M:58:VAL:C	2.60	0.44
38:4N:32:GLU:OE1	38:4N:32:GLU:HA	2.18	0.44
39:4S:169:LEU:HD22	39:4S:178:ILE:CD1	2.45	0.44
40:4T:229:VAL:HG12	40:4T:233:CYS:SG	2.58	0.44
40:4T:493:MET:HE3	40:4T:498:ARG:HD2	1.98	0.44
40:4U:338:TYR:O	40:4U:342:THR:HG23	2.17	0.44
40:4U:493:MET:HE3	40:4U:498:ARG:HD2	1.98	0.44
40:4V:294:GLY:O	40:4V:295:THR:OG1	2.32	0.44
40:4V:493:MET:HE3	40:4V:498:ARG:HD2	1.98	0.44
41:4W:166:GLY:O	43:5L:155:ALA:HA	2.18	0.44
12:4a:172:SER:HB2	12:4a:205:GLU:CG	2.48	0.44
12:4g:67:ASP:O	12:4g:92:PHE:HA	2.17	0.44
12:4g:189:VAL:HG21	12:4g:378:PHE:HE1	1.81	0.44
42:5H:91:TYR:CG	43:5L:42:TYR:CB	3.00	0.44
42:5H:95:GLU:C	42:5H:98:PHE:H	2.26	0.44
42:5H:95:GLU:CA	42:5H:98:PHE:HB3	2.48	0.44
42:5H:132:GLY:CA	43:5L:50:ILE:HD13	2.46	0.44
42:5H:135:ARG:NE	43:5L:52:LEU:HG	2.32	0.44
43:5I:158:HIS:ND1	43:5I:160:SER:HB3	2.31	0.44
43:5L:143:MET:O	43:5L:147:THR:CG2	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5a:211:CYS:SG	12:5a:220:PRO:HB3	2.58	0.44
12:5a:274:THR:OG1	12:5a:279:GLN:HA	2.17	0.44
13:5b:68:LEU:HD12	13:5b:93:ILE:HB	1.99	0.44
12:5c:3:GLU:N	12:5c:3:GLU:OE1	2.51	0.44
12:5c:377:MET:HG2	12:5c:380:ARG:NH2	2.32	0.44
13:5f:30:ILE:HA	13:5f:36:MET:HB3	1.98	0.44
13:5f:74:VAL:O	13:5f:78:VAL:HG23	2.17	0.44
12:5g:87:PRO:HA	12:5g:90:PHE:HD1	1.82	0.44
12:5g:330:MET:HB3	12:5g:349:VAL:HG11	1.98	0.44
47:6A:367:ARG:O	47:6A:371:MET:HG2	2.17	0.44
47:6A:605:GLY:O	47:6A:608:CYS:HB2	2.17	0.44
47:6A:866:LEU:HD23	47:6A:866:LEU:HA	1.65	0.44
47:6A:1203:ARG:HB3	51:6M:2456:VAL:HG22	1.98	0.44
47:6B:367:ARG:O	47:6B:371:MET:HG2	2.17	0.44
3:6D:693:PRO:HG2	3:6D:694:GLU:OE1	2.17	0.44
48:6E:1022:GLN:NE2	50:6K:399:LEU:HB2	2.33	0.44
49:6G:69:TYR:CD1	49:6G:74:MET:HG2	2.53	0.44
49:6H:49:LYS:HE2	49:6H:69:TYR:CD2	2.52	0.44
49:6H:148:LEU:HD23	49:6H:148:LEU:HA	1.70	0.44
49:6I:14:LYS:HE3	49:6I:14:LYS:HB3	1.58	0.44
49:6I:204:ALA:N	49:6I:305:LYS:HZ2	2.15	0.44
50:6K:369:ILE:HD12	50:6K:374:ALA:CB	2.47	0.44
50:6K:405:LEU:HB3	50:6K:450:GLU:O	2.17	0.44
50:6L:516:LEU:HB2	50:6L:521:ILE:HD11	2.00	0.44
50:6L:530:LYS:O	50:6L:531:TYR:C	2.60	0.44
51:6M:2114:CYS:SG	51:6M:2116:SER:N	2.90	0.44
51:6M:2285:LEU:HD12	51:6M:2286:ARG:N	2.32	0.44
51:6N:1300:ARG:O	51:6N:1304:GLU:HG2	2.18	0.44
12:6a:42:LEU:HD13	12:6a:356:ILE:HD11	1.99	0.44
12:6c:198:GLU:OE1	12:6c:254:ALA:HB2	2.17	0.44
12:6e:73:MET:CE	12:6e:92:PHE:HB3	2.47	0.44
12:7c:113:ILE:HA	12:7c:116:VAL:CG1	2.45	0.44
13:7d:77:GLU:HG3	12:7e:243:PRO:HB3	1.99	0.44
12:7e:406:MET:HE2	12:7e:406:MET:HB3	1.79	0.44
13:7h:74:VAL:O	13:7h:78:VAL:HG23	2.17	0.44
13:8d:248:LEU:HD23	13:8d:248:LEU:HA	1.79	0.44
12:8e:42:LEU:HD13	12:8e:356:ILE:HD11	1.99	0.44
13:8h:21:TRP:HZ3	13:8h:52:PHE:HB3	1.82	0.44
12:9c:27:GLU:OE2	12:9c:318:ARG:NH2	2.39	0.44
54:9f:501:GTP:O3G	12:9g:252:LYS:HE2	2.17	0.44
13:9h:30:ILE:HA	13:9h:36:MET:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ad:175:PRO:HG3	13:Ad:390:ARG:NH2	2.31	0.44
12:Ae:309:ARG:NH2	12:Ae:343:GLU:OE2	2.50	0.44
12:Ae:396:HIS:HE2	13:Af:261:PRO:C	2.26	0.44
12:Ag:257:LEU:HA	12:Ag:312:THR:HG21	1.99	0.44
12:Ba:222:PHE:CE1	13:Bb:325:PRO:HB3	2.53	0.44
13:Bb:30:ILE:HA	13:Bb:36:MET:HB3	1.98	0.44
13:Bb:191:THR:HA	13:Bb:194:LEU:HG	1.98	0.44
12:Bc:332:ASN:CG	12:Bc:336:LYS:HD2	2.42	0.44
12:Be:114:ASP:OD2	12:Be:115:SER:N	2.51	0.44
12:Bg:50:TYR:CE2	12:Bg:241:ARG:HD3	2.52	0.44
13:Bh:68:LEU:HD12	13:Bh:93:ILE:HB	1.99	0.44
12:Ce:11:GLN:HG3	13:Cf:249:ASN:HB2	1.98	0.44
12:Cg:3:GLU:N	12:Cg:3:GLU:OE1	2.50	0.44
12:Da:161:ASP:OD1	12:Da:161:ASP:N	2.45	0.44
12:De:151:LEU:O	12:De:155:ILE:HG12	2.17	0.44
12:De:417:ASP:O	12:De:421:GLU:HG2	2.17	0.44
12:Dg:175:VAL:HG11	13:Dh:332:VAL:HG13	2.00	0.44
13:Dh:74:VAL:O	13:Dh:78:VAL:HG23	2.17	0.44
1:0W:260:LEU:HD11	1:0W:298:LEU:HD23	1.99	0.44
1:0C:127:LEU:HD13	1:0C:163:VAL:HA	2.00	0.44
1:0C:206:VAL:HG13	1:0C:246:VAL:HG11	2.00	0.44
1:0D:290:VAL:HG22	1:0D:295:VAL:HG21	1.98	0.44
1:0E:307:GLY:HA2	1:0E:310:ARG:HG2	2.00	0.44
1:0L:30:ASN:O	1:0L:34:ILE:HG13	2.17	0.44
1:0M:182:SER:HA	1:0M:185:ARG:HG2	2.00	0.44
1:0M:248:VAL:HA	1:0M:253:PHE:CE2	2.53	0.44
1:0M:328:ALA:O	1:0M:332:ILE:HG12	2.17	0.44
1:0O:67:ARG:HA	1:0O:70:ASN:ND2	2.32	0.44
1:0P:85:LEU:HD21	1:0P:121:VAL:HG22	1.99	0.44
1:0Q:83:GLU:O	1:0Q:86:PRO:HD2	2.18	0.44
1:0R:218:VAL:HG22	1:0R:229:VAL:CG2	2.47	0.44
1:0R:259:CYS:HB2	1:0R:271:SER:OG	2.17	0.44
1:0S:349:GLU:HB2	1:0S:352:LEU:HB3	2.00	0.44
1:0T:169:VAL:O	1:0T:173:VAL:HG23	2.17	0.44
1:0U:67:ARG:HA	1:0U:70:ASN:ND2	2.33	0.44
1:0X:218:VAL:HG22	1:0X:229:VAL:CG2	2.47	0.44
1:0X:269:LYS:O	1:0X:273:THR:HG23	2.17	0.44
1:0Z:117:LEU:HA	1:0Z:120:SER:OG	2.18	0.44
1:1A:336:ALA:O	1:1A:340:LEU:HG	2.18	0.44
1:1B:253:PHE:HA	1:1B:256:ILE:CG1	2.47	0.44
1:1B:269:LYS:HG3	1:1B:309:ASN:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:159:PRO:HB3	2:1D:202:PRO:HG2	1.99	0.44
2:1E:175:SER:OG	2:1E:179:HIS:CE1	2.71	0.44
2:1F:89:ALA:HB2	2:1F:126:VAL:HG22	2.00	0.44
2:1F:312:ALA:HB2	2:1F:350:TYR:CE2	2.53	0.44
2:1F:400:THR:HG22	2:1F:405:ALA:HB3	2.00	0.44
2:1G:147:MET:HE1	2:1G:183:ILE:HG12	1.97	0.44
3:1H:645:LEU:HB3	3:1H:684:HIS:CE1	2.52	0.44
3:1I:177:VAL:HG11	3:1I:225:VAL:HG21	1.99	0.44
4:1J:50:PRO:HB2	4:1J:52:LYS:HG2	2.00	0.44
4:1J:176:THR:O	4:1J:178:ARG:N	2.51	0.44
4:1K:176:THR:O	4:1K:178:ARG:N	2.51	0.44
5:1L:451:ILE:HB	5:1L:463:GLU:HG3	1.99	0.44
5:1M:386:THR:O	5:1M:387:TYR:HB2	2.18	0.44
6:1N:253:LYS:O	6:1N:257:ARG:HG2	2.18	0.44
6:1N:641:TRP:CD1	6:1N:653:GLN:CG	3.00	0.44
6:1N:1087:CYS:SG	6:1N:1125:VAL:HG21	2.57	0.44
6:1N:2038:PRO:HB2	6:1N:2140:VAL:HG13	1.98	0.44
7:1O:238:GLN:HG2	7:1O:239:ALA:N	2.33	0.44
7:1O:3059:LEU:O	7:1O:3060:SER:HB3	2.18	0.44
10:1R:267:LEU:HD13	10:1R:285:PHE:HB2	1.98	0.44
10:1R:373:SER:CB	13:Bb:220:GLU:OE2	2.66	0.44
10:1R:398:VAL:HG22	13:Ab:123:ARG:HH22	1.82	0.44
10:1S:57:LYS:HB2	13:Ah:339:ARG:NH2	2.33	0.44
12:1a:42:LEU:HD13	12:1a:356:ILE:HD11	2.00	0.44
12:1a:48:ASN:O	12:1a:62:ARG:NH2	2.44	0.44
12:1a:284:LEU:HD11	12:1a:363:MET:HB2	2.00	0.44
12:1c:64:ILE:HD13	12:1c:120:VAL:HG22	1.99	0.44
13:1f:74:VAL:O	13:1f:78:VAL:HG23	2.17	0.44
12:1g:213:ARG:HH21	12:1g:297:LYS:HD2	1.83	0.44
14:2F:168:GLY:N	12:Aa:279:GLN:OE1	2.51	0.44
23:2Q:17:UNK:CB	13:3h:298:PRO:HD3	2.46	0.44
24:2V:152:GLU:OE1	24:2V:157:GLU:HB3	2.17	0.44
12:2c:244:GLY:HA2	12:2c:354:CYS:HA	2.00	0.44
13:2h:21:TRP:HZ3	13:2h:52:PHE:HB3	1.82	0.44
28:3C:568:ARG:HD2	12:3g:262:ARG:HB3	1.99	0.44
32:3K:392:ALA:HA	32:3K:395:VAL:HG22	1.99	0.44
34:3N:44:LYS:HA	34:3Q:80:LEU:HD13	1.98	0.44
34:3O:61:HIS:HE1	34:3O:434:ASP:OD1	2.01	0.44
34:3O:289:ALA:HB2	34:3T:203:ALA:HB1	1.99	0.44
34:3P:280:TRP:HB2	34:3P:452:HIS:CD2	2.52	0.44
34:3P:378:SER:HA	34:3P:381:ASN:HD22	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3Q:332:GLU:OE2	34:3Q:336:ARG:HD2	2.17	0.44
34:3R:339:GLU:O	34:3R:343:THR:HG23	2.17	0.44
34:3S:266:HIS:CA	34:3S:463:HIS:HE1	2.27	0.44
34:3W:82:ILE:O	34:3W:86:GLN:HG3	2.17	0.44
34:3X:38:HIS:NE2	34:3X:452:HIS:HE1	2.15	0.44
34:3X:386:HIS:NE2	34:3X:390:LEU:HD11	2.32	0.44
34:3Y:482:LEU:HB2	34:4A:485:TYR:HE2	1.81	0.44
12:3a:286:VAL:O	12:3a:290:THR:HG23	2.18	0.44
13:3b:30:ILE:HA	13:3b:36:MET:HB3	1.98	0.44
12:3c:66:MET:HA	12:3c:91:VAL:HG23	1.98	0.44
12:3e:21:TRP:CZ2	12:3e:63:ALA:HB2	2.52	0.44
12:3e:154:LYS:HA	12:3e:157:GLU:OE1	2.17	0.44
13:3f:21:TRP:HZ3	13:3f:52:PHE:HB3	1.82	0.44
13:3h:30:ILE:HA	13:3h:36:MET:HB3	1.98	0.44
34:4A:234:ARG:O	34:4A:235:LEU:HD23	2.17	0.44
35:4C:390:ARG:HG3	35:4C:391:PRO:HD2	2.00	0.44
35:4C:820:ARG:HH11	37:4E:1728:GLU:HG3	1.81	0.44
37:4E:577:LEU:HD22	43:5L:42:TYR:CB	2.48	0.44
37:4E:581:LEU:CB	43:5L:32:LEU:CA	2.95	0.44
37:4E:1682:ARG:HA	37:4E:1696:HIS:ND1	2.32	0.44
37:4F:958:LEU:HD11	37:4F:972:PHE:HB3	1.98	0.44
37:4G:672:PHE:HB3	38:4I:39:HIS:CE1	2.51	0.44
37:4G:759:PRO:HD2	37:4G:762:ALA:HB3	1.99	0.44
37:4G:796:PRO:HD2	37:4G:815:ALA:HB1	2.00	0.44
37:4G:820:ARG:O	37:4G:870:THR:HG22	2.17	0.44
37:4G:1136:ARG:H	38:4L:33:LYS:CE	2.31	0.44
37:4G:1380:ALA:HB2	37:4G:1399:LEU:HB3	1.99	0.44
37:4H:954:SER:HB2	38:4M:48:PRO:N	2.33	0.44
37:4H:1184:TRP:HB2	37:4H:1186:ARG:HE	1.82	0.44
38:4I:38:VAL:HG13	38:4I:41:LYS:HB3	1.99	0.44
38:4K:25:PRO:O	38:4K:26:GLU:C	2.56	0.44
38:4L:25:PRO:CA	38:4L:28:VAL:H	2.29	0.44
38:4L:27:ALA:O	38:4L:28:VAL:C	2.58	0.44
38:4L:52:TYR:O	38:4L:56:THR:HG23	2.18	0.44
38:4M:52:TYR:O	38:4M:56:THR:HG23	2.18	0.44
38:4N:72:ARG:HA	38:4N:73:PRO:HD3	1.79	0.44
38:4P:53:LEU:O	38:4P:58:VAL:HG23	2.18	0.44
39:4S:104:ARG:HH22	44:5N:49:GLU:N	2.16	0.44
40:4T:338:TYR:O	40:4T:342:THR:HG23	2.17	0.44
40:4U:229:VAL:HG12	40:4U:233:CYS:SG	2.58	0.44
40:4V:223:LEU:CD2	40:4V:260:GLU:HG3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4b:130:THR:OG1	13:4b:131:GLY:N	2.49	0.44
12:4e:42:LEU:HD13	12:4e:356:ILE:HD11	1.99	0.44
12:4g:161:ASP:N	12:4g:161:ASP:OD1	2.50	0.44
41:5A:126:TYR:O	41:5A:133:ARG:HA	2.16	0.44
42:5F:26:GLU:OE2	42:5F:26:GLU:N	2.43	0.44
42:5H:133:LEU:CA	42:5H:134:LEU:O	2.65	0.44
43:5K:143:MET:O	43:5K:147:THR:HG22	2.17	0.44
43:5L:10:LEU:HD23	43:5L:10:LEU:HA	1.55	0.44
43:5L:39:LEU:CD1	43:5L:51:HIS:CD2	3.01	0.44
12:5a:52:ASN:O	12:5a:60:VAL:HG22	2.16	0.44
12:5a:258:ILE:HG12	12:5a:266:PHE:HZ	1.83	0.44
13:5b:107:HIS:O	13:5b:112:LYS:NZ	2.41	0.44
12:5c:193:VAL:HG13	12:5c:262:ARG:HB2	1.99	0.44
13:5d:21:TRP:HZ3	13:5d:52:PHE:HB3	1.82	0.44
13:5d:74:VAL:O	13:5d:78:VAL:HG23	2.17	0.44
12:5e:68:LEU:HD23	12:5e:143:THR:HG23	1.99	0.44
12:5g:68:LEU:HD21	12:5g:147:MET:SD	2.58	0.44
47:6B:350:ARG:NH2	3:6D:526:ASP:CG	2.74	0.44
47:6B:351:ARG:HH12	3:6D:522:GLU:CA	2.29	0.44
47:6B:409:ARG:NE	3:6D:1006:ASP:CB	2.80	0.44
47:6B:605:GLY:O	47:6B:608:CYS:HB2	2.17	0.44
48:6E:722:ARG:HH12	49:6G:21:ASN:HD22	1.64	0.44
48:6E:897:GLU:HB2	48:6E:899:LEU:HD23	1.99	0.44
48:6F:810:LEU:CD2	49:6H:3:VAL:HG11	2.47	0.44
49:6I:352:THR:OG1	49:6I:380:ALA:O	2.32	0.44
49:6J:358:GLN:NE2	49:6J:436:GLN:HE22	2.02	0.44
51:6M:2044:ALA:H	51:6M:2077:LEU:HB3	1.83	0.44
51:6N:1464:GLU:OE2	51:6N:1484:LEU:HD23	2.18	0.44
12:6a:60:VAL:HB	12:6a:86:ARG:NE	2.32	0.44
13:6b:273:ALA:N	13:6b:375:VAL:O	2.48	0.44
12:6c:207:LEU:HB3	12:6c:225:LEU:HD22	1.98	0.44
12:6e:48:ASN:O	12:6e:62:ARG:NH2	2.44	0.44
12:6e:267:MET:HE1	12:6e:305:PRO:HG3	2.00	0.44
13:6h:74:VAL:O	13:6h:78:VAL:HG23	2.17	0.44
12:7a:284:LEU:HG	12:7a:363:MET:CE	2.47	0.44
12:7g:232:VAL:HG22	12:7g:270:PHE:HB2	1.98	0.44
13:8b:407:TRP:CD2	12:8c:255:VAL:HG22	2.52	0.44
12:8g:330:MET:SD	12:8g:349:VAL:HG11	2.57	0.44
12:9a:344:TRP:CZ3	12:9a:345:ILE:HD11	2.52	0.44
12:9g:179:VAL:O	12:9g:388:MET:HE1	2.18	0.44
12:Aa:3:GLU:HB3	12:Aa:62:ARG:NH2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ab:90:GLU:OE1	13:Ab:121:ARG:NE	2.44	0.44
13:Ab:175:PRO:HG3	13:Ab:390:ARG:NH2	2.31	0.44
12:Ac:107:THR:OG1	12:Ac:108:GLU:N	2.50	0.44
12:Ac:165:LEU:HD11	12:Ac:200:MET:HE2	2.00	0.44
13:Ad:185:TYR:OH	13:Ad:398:MET:HB3	2.16	0.44
12:Ag:232:VAL:HG22	12:Ag:270:PHE:HB2	1.98	0.44
12:Bc:50:TYR:CE2	12:Bc:241:ARG:HD3	2.51	0.44
12:Bc:330:MET:HB3	12:Bc:349:VAL:HG21	2.00	0.44
13:Bf:68:LEU:HD12	13:Bf:93:ILE:HB	1.99	0.44
12:Cc:99:ASN:HA	12:Cc:142:GLY:H	1.81	0.44
12:Ce:178:THR:HG22	13:Cf:352:LYS:NZ	2.33	0.44
12:Cg:236:ILE:HG12	12:Cg:368:ILE:HD11	1.99	0.44
12:Da:267:MET:HE1	12:Da:305:PRO:HG3	1.99	0.44
13:Db:246:GLY:N	13:Db:249:ASN:OD1	2.43	0.44
13:Db:273:ALA:N	13:Db:375:VAL:O	2.48	0.44
12:De:106:TYR:C	12:De:107:THR:HG1	2.23	0.44
12:Dg:3:GLU:N	12:Dg:3:GLU:OE1	2.51	0.44
13:Dh:21:TRP:HZ3	13:Dh:52:PHE:HB3	1.82	0.44
1:0H:196:LYS:HB3	1:0H:235:GLN:HG3	1.99	0.44
1:0J:404:LEU:O	1:0J:408:ILE:HG12	2.17	0.44
1:0W:48:PRO:O	1:0W:51:LEU:HB3	2.17	0.44
1:0W:85:LEU:HA	1:0W:88:LEU:HD12	1.99	0.44
1:0I:213:TYR:O	1:0I:216:PRO:HD2	2.18	0.44
1:0B:79:VAL:HG13	1:0B:84:ILE:HB	2.00	0.44
1:0B:308:ASN:OD1	1:0B:309:ASN:N	2.51	0.44
1:0B:325:GLU:O	1:0B:329:LEU:HG	2.18	0.44
1:0B:354:SER:OG	1:0B:395:ASP:OD2	2.34	0.44
1:0C:365:ARG:HG3	1:0C:406:SER:HB3	1.99	0.44
1:0E:10:PHE:CZ	1:0F:37:LEU:HD23	2.52	0.44
1:0E:386:LEU:HB3	1:0E:396:LEU:HD21	1.98	0.44
1:0G:85:LEU:HD13	1:0G:121:VAL:HA	1.99	0.44
1:0M:65:LEU:CD2	1:0M:84:ILE:HG21	2.46	0.44
1:0M:354:SER:HB2	1:0M:399:LYS:HG3	1.98	0.44
1:0N:209:GLY:HA3	10:1R:253:GLY:C	2.42	0.44
1:0Q:213:TYR:C	1:0Q:216:PRO:HD2	2.43	0.44
1:0Q:252:ILE:O	1:0Q:256:ILE:HG13	2.18	0.44
1:0R:164:VAL:HG21	1:0R:201:LEU:HD22	1.99	0.44
1:0R:319:TYR:CD1	47:6B:277:PHE:CG	3.05	0.44
1:0V:85:LEU:HA	1:0V:88:LEU:HD12	1.98	0.44
1:0V:256:ILE:HG23	1:0V:271:SER:HB2	1.98	0.44
1:0V:386:LEU:HB3	1:0V:396:LEU:HD21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Y:248:VAL:HG12	1:0Y:253:PHE:CZ	2.53	0.44
1:1B:172:LEU:HB3	1:1B:191:LEU:HD21	1.98	0.44
1:1B:315:MET:HE3	1:1B:319:TYR:CZ	2.52	0.44
1:1C:67:ARG:HA	1:1C:70:ASN:ND2	2.32	0.44
2:1E:320:PRO:HB2	2:1E:361:ALA:CB	2.46	0.44
2:1G:312:ALA:HB2	2:1G:350:TYR:CE2	2.53	0.44
3:1H:531:MET:HE3	3:1H:531:MET:HB3	1.92	0.44
3:1H:946:VAL:O	3:1H:949:LYS:HB2	2.18	0.44
3:1H:1006:ASP:OD1	47:6A:409:ARG:NH1	2.48	0.44
4:1K:50:PRO:HB2	4:1K:52:LYS:HG2	2.00	0.44
6:1N:97:PHE:CZ	6:1N:147:ALA:HB2	2.53	0.44
6:1N:1052:LEU:HD23	6:1N:1052:LEU:C	2.43	0.44
6:1N:1542:GLU:O	6:1N:1546:VAL:HG23	2.18	0.44
6:1N:2544:VAL:HG13	6:1N:2624:LEU:HB2	1.99	0.44
7:1O:1869:ASN:HA	7:1O:1872:ILE:HG22	2.00	0.44
10:1R:279:PHE:HZ	32:3J:225:ARG:NH2	2.16	0.44
10:1R:392:LEU:HB2	13:Bb:297:GLU:OE2	2.18	0.44
13:1b:74:VAL:O	13:1b:78:VAL:HG23	2.17	0.44
13:1d:226:ASN:OD1	14:2F:30:ASN:ND2	2.49	0.44
12:1g:327:ASP:OD2	12:1g:328:GLU:N	2.51	0.44
23:2Q:21:UNK:C	13:2h:123:ARG:NH2	2.80	0.44
12:2c:139:LEU:HD22	12:2c:188:SER:CB	2.47	0.44
12:2e:3:GLU:HB3	12:2e:62:ARG:HH21	1.82	0.44
28:3C:524:TYR:HB3	13:4h:309:HIS:HB3	1.99	0.44
28:3C:531:MET:O	28:3C:535:ARG:HB2	2.18	0.44
29:3E:1140:VAL:HG21	13:5f:264:ARG:HD3	1.99	0.44
30:3F:271:LYS:HD3	12:6e:424:GLN:NE2	2.25	0.44
32:3J:192:GLU:HG2	32:3J:209:TRP:CZ3	2.53	0.44
34:3O:307:GLU:OE2	34:3O:308:GLU:HG3	2.17	0.44
34:3P:56:TYR:HB3	34:3P:295:GLN:HG3	2.00	0.44
34:3Q:342:GLN:CD	34:3Q:386:HIS:HE2	2.26	0.44
34:3R:486:ARG:HD3	37:4H:1795:ARG:HH22	1.81	0.44
34:3V:89:ILE:HD11	34:3V:324:HIS:CD2	2.53	0.44
34:3V:252:GLU:CD	34:3X:488:ARG:HH21	2.26	0.44
34:3Y:100:ILE:HG12	34:3Y:338:LEU:HD21	1.99	0.44
34:3Y:482:LEU:HD13	34:4A:485:TYR:CD2	2.53	0.44
12:3a:207:LEU:HD23	12:3a:210:ILE:HD11	1.99	0.44
12:3c:165:LEU:HD11	12:3c:200:MET:HE2	1.99	0.44
13:3d:30:ILE:HA	13:3d:36:MET:HB3	1.98	0.44
12:3g:104:GLY:O	12:3g:147:MET:HG3	2.17	0.44
34:4B:349:LEU:HD23	34:4B:382:LEU:CD1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:4D:98:LEU:HD21	36:4D:137:CYS:SG	2.57	0.44
36:4D:182:GLN:HA	36:4D:185:ARG:HD2	1.98	0.44
36:4D:203:TRP:HB3	36:4D:220:VAL:O	2.18	0.44
37:4E:586:PHE:CB	43:5L:15:LEU:HA	2.46	0.44
37:4E:1126:LEU:O	37:4E:1127:ARG:HG2	2.17	0.44
37:4E:1152:VAL:HG21	37:4E:1165:ARG:O	2.18	0.44
37:4E:1305:VAL:HG13	37:4E:1315:VAL:HG22	2.00	0.44
37:4E:1375:SER:HB2	37:4E:1386:PHE:HE1	1.82	0.44
37:4E:1525:LEU:HD13	37:4E:1613:TYR:CD1	2.52	0.44
37:4F:582:GLN:O	37:4F:583:GLU:C	2.60	0.44
37:4F:1073:LEU:CG	37:4F:1379:ALA:HB2	2.47	0.44
37:4F:1074:GLN:HA	38:4N:41:LYS:CB	2.45	0.44
37:4G:671:LEU:CD1	38:4I:36:VAL:HG23	2.47	0.44
37:4G:826:LEU:CG	38:4L:82:TYR:HE1	2.31	0.44
37:4G:827:PRO:HG3	37:4G:850:PRO:CB	2.47	0.44
37:4G:867:HIS:O	37:4G:887:ALA:HB1	2.17	0.44
37:4G:1093:VAL:CB	38:4L:36:VAL:N	2.57	0.44
37:4G:1296:VAL:HG21	37:4G:1759:MET:SD	2.57	0.44
37:4H:1303:VAL:CG1	37:4H:1317:ASP:HA	2.46	0.44
37:4H:1333:VAL:O	37:4H:1340:PRO:CB	2.66	0.44
37:4H:1333:VAL:C	37:4H:1341:ILE:HD12	2.42	0.44
37:4H:1525:LEU:HD11	37:4H:1611:ILE:CG2	2.48	0.44
38:4I:39:HIS:C	38:4I:41:LYS:N	2.74	0.44
38:4J:25:PRO:O	38:4J:26:GLU:C	2.56	0.44
38:4J:52:TYR:O	38:4J:56:THR:HG23	2.18	0.44
38:4P:81:ALA:O	38:4P:85:LEU:HG	2.17	0.44
39:4S:52:ARG:NH2	44:5U:124:GLU:HG2	2.33	0.44
40:4V:178:SER:OG	40:4V:180:SER:N	2.48	0.44
12:4a:232:VAL:HG22	12:4a:270:PHE:HB2	1.99	0.44
13:4b:96:LYS:HB3	12:4c:129:CYS:SG	2.58	0.44
13:4d:21:TRP:HZ3	13:4d:52:PHE:HB3	1.82	0.44
41:5A:144:HIS:CA	41:5A:164:GLY:HA2	2.44	0.44
42:5H:50:LEU:HG	43:5L:144:TYR:CE1	2.53	0.44
42:5H:158:MET:CB	43:5L:159:PRO:CD	2.89	0.44
43:5I:7:TRP:HH2	43:5I:69:ASP:OD2	2.00	0.44
43:5J:158:HIS:C	43:5J:160:SER:N	2.75	0.44
44:5U:59:VAL:HG23	44:5U:71:GLU:HB3	2.00	0.44
12:5a:42:LEU:HD13	12:5a:356:ILE:HD11	2.00	0.44
12:5a:257:LEU:HB3	12:5a:266:PHE:HE1	1.82	0.44
13:5b:407:TRP:CD1	12:5c:258:ILE:O	2.71	0.44
12:5c:176:SER:OG	12:5c:178:THR:O	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5d:30:ILE:HA	13:5d:36:MET:HB3	1.98	0.44
12:5e:42:LEU:HD13	12:5e:356:ILE:HD11	2.00	0.44
12:5g:193:VAL:HG13	12:5g:262:ARG:HB2	1.99	0.44
47:6A:567:GLY:HA2	47:6A:570:VAL:HG12	2.00	0.44
47:6B:560:ILE:HG12	47:6B:1306:LEU:HD21	1.99	0.44
47:6B:1331:ASP:OD2	47:6B:1332:VAL:HG13	2.17	0.44
48:6E:789:HIS:H	48:6E:820:LEU:HD13	1.81	0.44
48:6F:215:LEU:HB2	48:6F:236:ASP:O	2.17	0.44
48:6F:593:HIS:NE2	48:6F:595:ALA:HB3	2.32	0.44
49:6G:393:THR:HG23	49:6G:396:GLU:HB2	2.00	0.44
49:6J:284:ILE:O	49:6J:333:VAL:HA	2.17	0.44
50:6L:205:ASP:HB3	50:6L:212:ASP:HB2	2.00	0.44
51:6M:1300:ARG:O	51:6M:1304:GLU:HG2	2.18	0.44
51:6M:1464:GLU:OE2	51:6M:1484:LEU:HD23	2.18	0.44
51:6N:2140:VAL:HG13	51:6N:2286:ARG:HG2	1.99	0.44
51:6N:2167:VAL:HG22	51:6N:2241:LEU:HD13	1.99	0.44
52:6O:24:UNK:O	52:6O:25:UNK:C	2.65	0.44
12:6a:86:ARG:HD2	12:7a:281:TYR:CD1	2.53	0.44
13:6d:74:VAL:O	13:6d:78:VAL:HG23	2.17	0.44
12:6e:172:SER:HB2	12:6e:205:GLU:CG	2.48	0.44
12:6e:395:LEU:O	12:6e:399:THR:HG23	2.18	0.44
13:6f:74:VAL:O	13:6f:78:VAL:HG23	2.17	0.44
12:6g:193:VAL:HG13	12:6g:262:ARG:HB2	2.00	0.44
12:7a:112:LEU:HD12	12:7a:115:SER:HB3	1.99	0.44
12:7a:172:SER:HB2	12:7a:205:GLU:HG3	2.00	0.44
12:7a:278:SER:CA	12:7a:281:TYR:HB2	2.47	0.44
13:7b:74:VAL:O	13:7b:78:VAL:HG23	2.17	0.44
13:7b:181:VAL:HG22	12:7c:347:ASN:O	2.18	0.44
13:7d:74:VAL:O	13:7d:78:VAL:HG23	2.17	0.44
12:8a:21:TRP:CZ2	12:8a:63:ALA:HB2	2.52	0.44
12:8c:68:LEU:HB3	12:8c:96:GLY:HA2	1.98	0.44
13:9d:248:LEU:HD23	13:9d:248:LEU:HA	1.79	0.44
12:9g:316:LEU:HB2	12:9g:366:THR:HG23	2.00	0.44
12:Ac:88:ASP:OD2	12:Ac:88:ASP:N	2.50	0.44
12:Ac:178:THR:CG2	12:Ac:181:GLU:HG3	2.48	0.44
12:Ae:249:ASP:H	12:Ae:252:LYS:HD3	1.82	0.44
13:Ah:317:LEU:HB3	13:Ah:319:TYR:CE1	2.53	0.44
12:Ba:52:ASN:HB3	12:Ba:60:VAL:CG2	2.47	0.44
12:Ba:103:LYS:HG2	12:Ba:401:GLU:OE2	2.16	0.44
12:Bc:48:ASN:O	12:Bc:62:ARG:NH2	2.43	0.44
13:Bf:179:THR:O	12:Bg:350:LYS:HD2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bg:68:LEU:HB3	12:Bg:96:GLY:HA2	1.98	0.44
12:Bg:139:LEU:HD12	12:Bg:170:VAL:HG22	1.99	0.44
12:Bg:327:ASP:OD1	12:Bg:328:GLU:N	2.51	0.44
12:Ca:3:GLU:HB3	12:Ca:62:ARG:HH21	1.83	0.44
12:Ce:21:TRP:CZ2	12:Ce:63:ALA:HB2	2.53	0.44
12:Da:318:ARG:HB3	12:Da:357:PRO:HA	1.98	0.44
1:0H:358:TRP:HB2	1:0H:399:LYS:HD2	1.99	0.44
1:0J:83:GLU:C	1:0J:86:PRO:HD2	2.42	0.44
1:0J:149:LEU:HD13	1:0J:168:ALA:HB1	2.00	0.44
1:0I:349:GLU:HB2	1:0I:352:LEU:HB3	2.00	0.44
1:0K:307:GLY:HA2	1:0K:310:ARG:HD3	1.99	0.44
1:0K:338:PRO:HB2	1:0K:339:PRO:HD3	1.99	0.44
1:0B:348:PRO:HA	1:0B:353:LYS:HE3	1.99	0.44
1:0C:27:MET:HB2	1:0C:37:LEU:HD11	2.00	0.44
1:0D:367:THR:CB	1:0D:370:HIS:CD2	2.97	0.44
1:0D:371:ALA:O	1:0D:411:LEU:HD12	2.17	0.44
1:0E:191:LEU:HD22	1:0E:205:VAL:HG13	1.98	0.44
1:0F:192:SER:HB2	1:0F:232:ALA:HB2	2.00	0.44
1:0F:307:GLY:HA2	1:0F:310:ARG:HD3	1.98	0.44
1:0G:48:PRO:O	1:0G:51:LEU:HB3	2.17	0.44
1:0M:353:LYS:HB2	1:0M:396:LEU:HD11	2.00	0.44
1:0N:338:PRO:HB2	1:0N:339:PRO:HD3	1.98	0.44
1:0P:338:PRO:HB2	1:0P:339:PRO:HD3	1.98	0.44
1:0Q:15:LYS:C	1:0Q:15:LYS:HD2	2.43	0.44
1:0Q:250:ALA:HB1	1:0Q:252:ILE:HG12	2.00	0.44
1:0R:65:LEU:CD2	1:0R:84:ILE:HG21	2.48	0.44
1:0R:133:CYS:HB2	1:0R:145:SER:HB3	1.98	0.44
1:0S:307:GLY:HA2	1:0S:310:ARG:HD3	2.00	0.44
1:0U:307:GLY:O	1:0U:310:ARG:HG2	2.18	0.44
1:0X:37:LEU:HG	1:0X:42:ALA:CB	2.47	0.44
1:0Y:379:CYS:O	1:0Y:383:LEU:HG	2.17	0.44
1:1B:206:VAL:CG1	1:1B:246:VAL:HG11	2.48	0.44
1:1B:275:VAL:O	1:1B:278:VAL:HG12	2.17	0.44
1:1B:298:LEU:HD21	1:1B:313:GLY:O	2.18	0.44
1:1B:308:ASN:OD1	1:1B:309:ASN:N	2.51	0.44
1:1C:320:ILE:HB	1:1C:327:LEU:HD13	1.99	0.44
2:1F:54:GLU:OE2	10:1S:357:THR:HA	2.18	0.44
3:1H:186:ARG:HA	3:1H:189:LEU:CD2	2.48	0.44
3:1H:508:LEU:CD1	3:1H:531:MET:HG3	2.40	0.44
3:1I:110:LEU:HA	3:1I:113:VAL:HG22	2.00	0.44
3:1I:800:TYR:O	3:1I:804:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1K:39:LEU:HB2	4:1K:42:GLN:HG3	1.98	0.44
4:1K:281:GLN:O	4:1K:282:LEU:HD12	2.18	0.44
6:1N:589:PRO:O	6:1N:645:VAL:HG21	2.18	0.44
6:1N:706:VAL:HA	6:1N:732:LEU:HD21	1.99	0.44
6:1N:726:LEU:O	6:1N:730:VAL:HG23	2.18	0.44
6:1N:1249:LEU:HA	6:1N:1253:SER:OG	2.18	0.44
7:1O:1076:GLN:HE22	7:1O:1106:LEU:CD2	2.26	0.44
7:1O:1482:LEU:HD22	44:5V:96:PHE:CE2	2.53	0.44
7:1O:2550:SER:CB	7:1O:2552:LYS:HZ2	2.29	0.44
10:1R:334:PRO:CD	13:Ab:409:VAL:HG21	2.48	0.44
10:1S:409:TYR:HD2	13:Bf:326:LYS:HE2	1.83	0.44
12:1a:323:THR:O	12:1a:326:VAL:HG12	2.18	0.44
13:1d:21:TRP:HZ3	13:1d:52:PHE:HB3	1.82	0.44
12:1e:21:TRP:CZ2	12:1e:63:ALA:HB2	2.53	0.44
13:1h:74:VAL:O	13:1h:78:VAL:HG23	2.17	0.44
14:2G:41:TRP:CE2	12:De:77:ARG:NH1	2.85	0.44
14:2G:41:TRP:HZ3	12:De:92:PHE:CE1	2.35	0.44
23:2Q:66:UNK:CB	13:2f:123:ARG:HD3	2.48	0.44
24:2T:149:SER:HB2	13:Dh:207:GLU:OE2	2.17	0.44
24:2U:132:ARG:NH2	24:2U:151:PHE:HZ	2.15	0.44
13:2d:74:VAL:O	13:2d:78:VAL:HG23	2.17	0.44
12:2g:161:ASP:N	12:2g:161:ASP:OD1	2.50	0.44
12:2g:165:LEU:HD11	12:2g:200:MET:HE2	1.99	0.44
13:2h:74:VAL:O	13:2h:78:VAL:HG23	2.17	0.44
29:3E:1144:ASP:O	29:3E:1145:THR:OG1	2.33	0.44
29:3E:1151:LEU:HD21	12:5e:390:ARG:CB	2.47	0.44
30:3F:353:ALA:CB	12:7g:160:PRO:HG2	2.48	0.44
31:3I:340:GLN:O	31:3I:344:ARG:HG3	2.18	0.44
32:3J:100:ALA:HB3	32:3J:103:MET:HB2	1.99	0.44
32:3J:150:ARG:N	32:3J:236:CYS:O	2.51	0.44
32:3K:23:LEU:HD12	32:3K:24:GLN:N	2.32	0.44
32:3K:46:ALA:O	32:3K:49:ALA:HB2	2.18	0.44
32:3K:181:VAL:CG2	32:3K:223:GLU:HB2	2.47	0.44
34:3N:481:LEU:HA	34:3N:484:GLU:HG2	1.99	0.44
34:3O:115:SER:O	34:3O:119:MET:HG2	2.18	0.44
34:3P:284:PHE:O	34:3P:288:MET:HG2	2.18	0.44
34:3R:252:GLU:N	34:3W:488:ARG:NH2	2.66	0.44
34:3R:383:ARG:O	34:3R:387:VAL:HG12	2.17	0.44
34:3T:103:LEU:HD22	34:3T:342:GLN:HG3	1.99	0.44
34:3U:56:TYR:HB3	34:3U:295:GLN:HG3	2.00	0.44
12:3a:404:ASP:OD2	12:3a:405:GLU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3b:224:TYR:HD2	12:3c:245:GLN:HG2	1.82	0.44
12:3c:179:VAL:O	12:3c:388:MET:HE1	2.18	0.44
12:3c:210:ILE:O	12:3c:214:THR:OG1	2.29	0.44
12:3e:42:LEU:HD13	12:3e:356:ILE:HD11	1.99	0.44
12:3e:238:CYS:SG	12:3e:239:CYS:N	2.91	0.44
13:3h:434:GLU:OE2	39:4Q:165:LYS:HA	2.17	0.44
34:4B:270:ILE:HG22	34:4B:274:ILE:HD11	1.99	0.44
35:4C:556:TRP:O	35:4C:705:ARG:CZ	2.66	0.44
35:4C:706:SER:HB3	35:4C:767:ALA:HB3	2.00	0.44
35:4C:960:GLN:NE2	38:4P:56:THR:HG22	2.33	0.44
36:4D:219:GLY:HA2	46:5Z:24:UNK:CB	2.48	0.44
37:4E:575:SER:HB3	43:5L:28:THR:O	2.17	0.44
37:4E:581:LEU:HG	43:5L:33:LEU:C	2.42	0.44
37:4E:587:ALA:N	43:5L:18:ILE:CG2	2.80	0.44
37:4E:774:HIS:HB3	37:4E:1785:ALA:HA	1.99	0.44
37:4E:1172:TRP:CZ3	37:4E:1201:SER:HB3	2.53	0.44
37:4F:1283:GLY:N	37:4F:1300:GLU:OE1	2.50	0.44
37:4G:1162:VAL:CB	37:4G:1299:ARG:HH12	2.31	0.44
37:4H:972:PHE:HD2	37:4H:973:HIS:O	2.00	0.44
37:4H:1334:GLU:N	38:4M:28:VAL:HA	2.29	0.44
38:4J:39:HIS:C	38:4J:41:LYS:N	2.74	0.44
38:4L:73:PRO:CD	38:4L:76:PRO:HG3	2.34	0.44
38:4N:25:PRO:O	38:4N:26:GLU:C	2.56	0.44
40:4T:156:THR:O	40:4T:160:THR:HG23	2.17	0.44
40:4U:257:VAL:O	40:4U:258:LEU:O	2.36	0.44
40:4U:449:TRP:CE3	40:4U:450:LEU:HG	2.52	0.44
40:4V:382:ARG:HA	40:4V:385:THR:HG22	2.00	0.44
40:4V:643:MET:SD	40:4V:646:LEU:HD12	2.57	0.44
12:4a:170:VAL:HG22	12:4a:202:LEU:O	2.17	0.44
12:4a:278:SER:C	12:4a:281:TYR:HB2	2.42	0.44
13:4b:68:LEU:HD12	13:4b:93:ILE:HB	1.99	0.44
12:4c:193:VAL:HG13	12:4c:262:ARG:HB2	1.99	0.44
12:4c:248:ALA:CB	12:4c:252:LYS:HD2	2.46	0.44
12:4g:237:THR:OG1	12:4g:241:ARG:NH1	2.50	0.44
41:5A:77:GLY:O	41:5A:92:TRP:O	2.36	0.44
41:5A:119:LYS:C	43:5L:168:GLU:HG2	2.41	0.44
42:5F:157:LEU:H	43:5J:155:ALA:N	2.10	0.44
42:5H:129:MET:C	42:5H:134:LEU:HD12	2.42	0.44
43:5I:124:MET:HE3	43:5I:124:MET:HB3	1.93	0.44
43:5J:143:MET:O	43:5J:147:THR:CG2	2.65	0.44
44:5R:62:ASP:N	44:5R:62:ASP:OD2	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:5S:93:PHE:CZ	44:5S:145:PHE:CD2	3.06	0.44
12:5a:139:LEU:HD21	12:5a:192:LEU:HD11	2.00	0.44
12:5a:278:SER:C	12:5a:281:TYR:HB2	2.43	0.44
13:5b:21:TRP:HZ3	13:5b:52:PHE:HB3	1.82	0.44
47:6B:848:THR:CG2	47:6B:866:LEU:HD21	2.47	0.44
47:6B:866:LEU:HD23	47:6B:866:LEU:HA	1.65	0.44
3:6D:683:ARG:CZ	3:6D:754:PHE:CE2	3.01	0.44
48:6E:126:GLN:HB2	48:6E:129:ASP:HB2	2.00	0.44
48:6E:857:HIS:ND1	48:6E:946:LEU:HD21	2.32	0.44
48:6E:956:GLN:HB3	50:6K:445:LEU:HB3	2.00	0.44
48:6F:722:ARG:NH1	49:6H:21:ASN:ND2	2.66	0.44
49:6H:393:THR:HG23	49:6H:396:GLU:HB2	2.00	0.44
49:6I:112:ASN:ND2	49:6I:147:LYS:O	2.50	0.44
49:6I:113:ILE:HA	49:6I:117:ILE:HB	2.00	0.44
49:6J:113:ILE:HA	49:6J:117:ILE:HB	2.00	0.44
50:6K:205:ASP:HB3	50:6K:212:ASP:HB2	2.00	0.44
51:6M:1936:GLU:HG3	51:6M:1950:THR:HA	1.98	0.44
51:6M:2140:VAL:HG13	51:6M:2286:ARG:HG2	1.99	0.44
12:6a:23:VAL:HA	12:6a:26:ASP:OD2	2.17	0.44
12:6g:5:VAL:HG23	12:6g:130:LEU:HD11	1.99	0.44
13:7b:30:ILE:HA	13:7b:36:MET:HB3	1.98	0.44
13:7b:68:LEU:HD12	13:7b:93:ILE:HB	1.99	0.44
12:7e:91:VAL:HG23	12:7e:91:VAL:O	2.18	0.44
12:7g:176:SER:HB2	12:7g:181:GLU:OE1	2.17	0.44
12:9a:21:TRP:CZ2	12:9a:63:ALA:HB2	2.53	0.44
13:9d:74:VAL:O	13:9d:78:VAL:HG23	2.17	0.44
12:9g:50:TYR:CE2	12:9g:241:ARG:HD3	2.52	0.44
12:Aa:232:VAL:HG22	12:Aa:270:PHE:HB2	2.00	0.44
12:Aa:285:THR:OG1	12:Aa:287:PRO:HD2	2.18	0.44
13:Af:74:VAL:O	13:Af:78:VAL:HG23	2.17	0.44
13:Af:175:PRO:HG3	13:Af:390:ARG:NH2	2.31	0.44
13:Af:317:LEU:HB3	13:Af:319:TYR:CE1	2.53	0.44
12:Ag:193:VAL:HG13	12:Ag:262:ARG:HB2	2.00	0.44
13:Bb:246:GLY:N	13:Bb:249:ASN:OD1	2.43	0.44
13:Bb:248:LEU:HD23	13:Bb:248:LEU:HA	1.79	0.44
13:Bf:30:ILE:HA	13:Bf:36:MET:HB3	1.98	0.44
13:Bh:30:ILE:HA	13:Bh:36:MET:HB3	1.98	0.44
12:Ca:21:TRP:CZ2	12:Ca:63:ALA:HB2	2.53	0.44
12:Ca:128:ASP:OD1	12:Ca:129:CYS:N	2.51	0.44
13:Cf:62:VAL:HG21	13:Df:283:HIS:O	2.17	0.44
13:Ch:74:VAL:O	13:Ch:78:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Da:106:TYR:C	12:Da:107:THR:HG1	2.25	0.44
12:Dc:161:ASP:OD2	12:Dc:162:ARG:NH1	2.51	0.44
1:0W:133:CYS:HB3	1:0W:141:VAL:HG12	2.00	0.44
1:0I:182:SER:HA	1:0I:185:ARG:NE	2.32	0.44
1:0K:67:ARG:HA	1:0K:70:ASN:ND2	2.32	0.44
1:0B:17:ARG:O	1:0B:21:VAL:HG22	2.18	0.44
1:0C:343:ALA:O	1:0C:346:GLU:C	2.61	0.44
1:0D:12:ARG:O	1:0D:16:GLU:HG2	2.18	0.44
1:0D:28:ALA:HB1	1:0D:67:ARG:HB2	2.00	0.44
1:0F:85:LEU:HD23	1:0F:88:LEU:HD12	1.99	0.44
1:0G:275:VAL:HG13	1:0G:289:VAL:HG11	1.98	0.44
1:0L:42:ALA:O	1:0L:45:LEU:N	2.47	0.44
1:0L:338:PRO:HB2	1:0L:339:PRO:HD3	2.00	0.44
1:0N:353:LYS:HD3	1:0N:386:LEU:HD22	1.98	0.44
1:0O:329:LEU:HA	1:0O:370:HIS:CE1	2.52	0.44
1:0O:372:LYS:HA	1:0O:411:LEU:CD1	2.44	0.44
1:0P:253:PHE:HA	1:0P:256:ILE:HB	2.00	0.44
1:0S:172:LEU:HD22	1:0S:187:ALA:HA	1.99	0.44
1:0S:286:ALA:HB1	1:0S:320:ILE:HG22	2.00	0.44
1:0T:184:LYS:HB3	1:0T:217:LEU:HD21	1.99	0.44
1:0X:392:SER:O	1:0X:396:LEU:HB3	2.16	0.44
1:0Z:27:MET:HB2	1:0Z:37:LEU:HD11	2.00	0.44
1:0Z:106:CYS:O	1:0Z:110:VAL:HG23	2.18	0.44
1:0Z:127:LEU:HD13	1:0Z:163:VAL:HA	2.00	0.44
1:0Z:344:LEU:HD23	1:0Z:347:GLU:OE2	2.18	0.44
1:1A:223:ALA:HB2	1:1A:262:PHE:CZ	2.52	0.44
1:1C:311:LEU:CD1	1:1C:351:HIS:CD2	3.00	0.44
1:1C:412:THR:O	1:1C:414:LEU:HD22	2.18	0.44
2:1D:175:SER:OG	2:1D:179:HIS:CE1	2.71	0.44
2:1E:148:PRO:O	2:1E:152:THR:HG23	2.18	0.44
2:1F:112:MET:HG2	2:1F:153:GLN:HE22	1.82	0.44
3:1H:254:ALA:HB3	3:1H:257:SER:OG	2.17	0.44
3:1H:916:LEU:HD12	3:1H:917:PRO:CD	2.45	0.44
3:1I:860:HIS:HD2	3:1I:957:LEU:HD23	1.83	0.44
4:1J:281:GLN:O	4:1J:282:LEU:HD12	2.18	0.44
5:1M:519:LEU:HB3	13:1f:192:HIS:CE1	2.53	0.44
6:1N:22:GLN:O	6:1N:26:VAL:HG23	2.18	0.44
6:1N:1775:VAL:HB	6:1N:1791:LEU:CD1	2.48	0.44
6:1N:1921:GLU:HG3	6:1N:1962:LEU:HD11	2.00	0.44
6:1N:2243:VAL:HG12	6:1N:2247:LEU:HD23	1.98	0.44
6:1N:2258:MET:O	6:1N:2259:LEU:HD12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1N:2652:PHE:HE1	6:1N:2697:LEU:CD2	2.27	0.44
7:1O:920:PRO:HD3	7:1O:1021:LEU:HG	1.99	0.44
7:1O:2033:ALA:HA	7:1O:2036:TRP:CD1	2.53	0.44
7:1O:2557:LEU:HD22	8:1P:791:MET:HE1	1.99	0.44
10:1R:170:PRO:HB3	12:Ac:343:GLU:OE2	2.18	0.44
10:1R:170:PRO:HG2	13:Ab:397:LEU:HD21	1.98	0.44
10:1S:394:ARG:HG3	13:Af:123:ARG:CD	2.47	0.44
13:1b:21:TRP:HZ3	13:1b:52:PHE:HB3	1.82	0.44
13:1d:74:VAL:O	13:1d:78:VAL:HG23	2.17	0.44
12:1e:98:GLY:C	13:1f:254:GLU:HG2	2.42	0.44
12:1g:3:GLU:N	12:1g:3:GLU:OE1	2.51	0.44
14:2F:44:LYS:HE2	13:Db:2:ARG:CD	2.47	0.44
24:2T:161:HIS:O	24:2T:164:VAL:HG12	2.18	0.44
12:2a:113:ILE:HD11	12:2a:154:LYS:HG3	2.00	0.44
13:2b:74:VAL:O	13:2b:78:VAL:HG23	2.17	0.44
12:2c:27:GLU:OE2	12:2c:318:ARG:NH2	2.37	0.44
12:2e:86:ARG:HA	12:3e:281:TYR:CD1	2.53	0.44
13:2f:96:LYS:HB3	12:2g:129:CYS:SG	2.58	0.44
31:3I:315:VAL:HG21	32:3K:389:LEU:HD12	1.99	0.44
32:3K:49:ALA:O	32:3K:135:PRO:HD2	2.17	0.44
34:3M:52:GLN:HE21	34:3M:56:TYR:HE2	1.66	0.44
34:3N:303:SER:O	34:3N:307:GLU:HG2	2.18	0.44
34:3O:250:ARG:HD2	34:3O:250:ARG:H	1.83	0.44
34:3O:485:TYR:HD1	34:3O:488:ARG:HE	1.64	0.44
34:3O:493:LYS:O	34:3O:497:MET:HE2	2.17	0.44
34:3P:373:ALA:O	34:3P:377:ARG:HG2	2.18	0.44
34:3P:492:LEU:HD13	34:3S:255:HIS:CD2	2.53	0.44
34:3Q:266:HIS:NE2	34:3T:506:GLU:OE1	2.50	0.44
34:3Q:334:LEU:HD12	34:3Q:400:LEU:HD11	2.00	0.44
34:3S:296:SER:OG	34:3S:297:SER:N	2.50	0.44
34:3T:193:LEU:O	34:3T:193:LEU:HD12	2.18	0.44
34:3U:249:ALA:HA	34:3U:252:GLU:OE2	2.18	0.44
34:3X:75:GLN:HB2	34:3X:419:LEU:HD22	2.00	0.44
34:3Z:259:MET:O	34:3Z:263:LYS:HG2	2.18	0.44
12:3a:34:GLY:HA3	12:3a:58:ARG:HG3	2.00	0.44
12:3a:256:ASN:ND2	12:3a:350:LYS:HG3	2.33	0.44
12:3g:110:ALA:HA	12:3g:113:ILE:CG2	2.47	0.44
12:3g:165:LEU:HD11	12:3g:200:MET:HE2	1.99	0.44
35:4C:359:LEU:CD2	35:4C:386:LEU:HD13	2.47	0.44
35:4C:451:GLN:HB3	35:4C:474:GLU:O	2.18	0.44
35:4C:525:LEU:HD12	35:4C:526:PRO:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:4D:294:LYS:HD3	36:4D:296:ALA:N	2.32	0.44
37:4E:733:LEU:HD23	37:4E:1801:GLN:HE22	1.82	0.44
37:4E:761:SER:OG	37:4E:1524:LEU:O	2.34	0.44
37:4E:1292:THR:CG2	37:4E:1756:PRO:HA	2.45	0.44
37:4F:512:LEU:H	37:4F:539:GLN:HE21	1.66	0.44
37:4F:1083:ILE:O	38:4N:37:GLY:C	2.45	0.44
37:4F:1084:ARG:NH2	37:4F:1086:THR:CG2	2.81	0.44
37:4F:1093:VAL:HG23	38:4N:36:VAL:C	2.41	0.44
37:4F:1167:ASP:O	37:4F:1168:ALA:C	2.61	0.44
37:4G:1167:ASP:O	37:4G:1168:ALA:C	2.61	0.44
37:4G:1326:ALA:HB3	37:4G:1328:ASP:OD2	2.18	0.44
37:4G:1734:PHE:HD2	37:4G:1736:ARG:HH11	1.62	0.44
37:4H:1147:ALA:HB1	37:4H:1151:ALA:O	2.18	0.44
38:4I:52:TYR:O	38:4I:56:THR:HG23	2.18	0.44
38:4K:67:ALA:HA	38:4K:70:LYS:CB	2.40	0.44
39:4Q:58:MET:O	39:4Q:61:VAL:HG12	2.18	0.44
39:4Q:172:THR:HB	39:4Q:175:GLN:HB2	2.00	0.44
39:4R:48:LEU:HD21	44:5T:128:MET:HB2	2.00	0.44
39:4R:58:MET:O	39:4R:61:VAL:HG12	2.18	0.44
39:4R:172:THR:HB	39:4R:175:GLN:HB2	2.00	0.44
39:4S:210:LEU:HD23	39:4S:210:LEU:HA	1.81	0.44
40:4T:449:TRP:CE3	40:4T:450:LEU:HG	2.52	0.44
40:4V:449:TRP:CE3	40:4V:450:LEU:HG	2.52	0.44
41:4W:167:PRO:C	43:5L:153:SER:O	2.59	0.44
12:4a:1:MET:HG3	12:4a:2:ARG:N	2.33	0.44
12:4a:60:VAL:HG11	12:4a:86:ARG:HH21	1.83	0.44
12:4c:179:VAL:O	12:4c:388:MET:HE1	2.18	0.44
12:4e:11:GLN:HA	12:4e:72:THR:HG21	2.00	0.44
12:4e:21:TRP:CZ2	12:4e:63:ALA:HB2	2.52	0.44
13:4f:21:TRP:HZ3	13:4f:52:PHE:HB3	1.82	0.44
41:5A:117:ALA:N	43:5L:169:LEU:HD11	2.33	0.44
42:5H:41:TYR:CE2	42:5H:42:ARG:HG3	2.53	0.44
42:5H:147:ALA:HA	43:5L:148:ASN:CG	2.43	0.44
43:5I:32:LEU:HA	43:5I:32:LEU:HD12	1.50	0.44
43:5J:124:MET:HE3	43:5J:124:MET:HB3	1.93	0.44
43:5L:84:HIS:CA	43:5L:87:ILE:HD12	2.31	0.44
43:5L:186:THR:O	43:5L:187:GLU:C	2.59	0.44
44:5Q:103:PHE:CE1	44:5Q:141:ASN:HB2	2.53	0.44
13:5b:398:MET:HG3	12:5c:346:PRO:CD	2.48	0.44
12:5e:232:VAL:HG22	12:5e:270:PHE:HB2	1.98	0.44
47:6A:618:LYS:O	47:6A:621:VAL:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:1331:ASP:OD2	47:6A:1332:VAL:HG13	2.17	0.44
47:6A:1911:VAL:HG23	47:6A:1915:LEU:HB2	1.99	0.44
47:6B:343:SER:O	47:6B:347:ARG:HG3	2.17	0.44
47:6B:402:MET:SD	3:6D:995:PHE:CD2	3.11	0.44
47:6B:567:GLY:HA2	47:6B:570:VAL:HG12	2.00	0.44
47:6B:1628:LEU:HD23	47:6B:1628:LEU:HA	1.82	0.44
3:6D:229:ALA:O	3:6D:233:THR:HG23	2.18	0.44
3:6D:897:GLY:HA3	3:6D:1032:LEU:HD11	1.98	0.44
3:6D:1010:LEU:CD1	48:6E:351:GLY:O	2.66	0.44
48:6E:593:HIS:NE2	48:6E:595:ALA:HB3	2.32	0.44
48:6F:691:ASN:HB2	48:6F:825:VAL:HA	2.00	0.44
48:6F:696:ILE:HD13	48:6F:702:LEU:HA	2.00	0.44
48:6F:833:HIS:ND1	48:6F:835:GLU:OE2	2.39	0.44
48:6F:956:GLN:HB3	50:6L:445:LEU:CB	2.48	0.44
49:6G:154:LEU:CD1	49:6G:389:ASN:HA	2.47	0.44
49:6G:204:ALA:N	49:6G:305:LYS:HZ2	2.15	0.44
49:6G:352:THR:OG1	49:6G:380:ALA:O	2.32	0.44
49:6J:112:ASN:ND2	49:6J:147:LYS:O	2.50	0.44
50:6L:50:ARG:CD	50:6L:531:TYR:HB3	2.48	0.44
51:6M:1954:LEU:HD11	51:6M:1960:ASN:OD1	2.18	0.44
51:6N:1954:LEU:HD11	51:6N:1960:ASN:OD1	2.18	0.44
51:6N:2285:LEU:HD12	51:6N:2286:ARG:N	2.32	0.44
13:6b:74:VAL:O	13:6b:78:VAL:HG23	2.17	0.44
12:6c:113:ILE:HA	12:6c:116:VAL:CG1	2.45	0.44
13:6d:177:VAL:HB	12:6e:331:LEU:HD22	1.99	0.44
12:6e:42:LEU:HD13	12:6e:356:ILE:HD11	1.99	0.44
12:6e:150:LEU:O	12:6e:153:SER:OG	2.32	0.44
13:6f:273:ALA:N	13:6f:375:VAL:O	2.48	0.44
12:7c:68:LEU:HD23	12:7c:143:THR:HG22	2.00	0.44
12:7c:139:LEU:HD12	12:7c:170:VAL:HG22	1.99	0.44
12:8a:11:GLN:HA	12:8a:72:THR:HG21	2.00	0.44
12:8a:374:ILE:HD11	12:8a:422:TYR:CZ	2.52	0.44
13:8b:21:TRP:HZ3	13:8b:52:PHE:HB3	1.82	0.44
13:8f:21:TRP:HZ3	13:8f:52:PHE:HB3	1.82	0.44
12:8g:153:SER:O	12:8g:157:GLU:HG2	2.18	0.44
12:9a:48:ASN:O	12:9a:62:ARG:NH2	2.44	0.44
13:9b:74:VAL:O	13:9b:78:VAL:HG23	2.17	0.44
12:9c:330:MET:HB3	12:9c:349:VAL:HG11	1.99	0.44
12:9e:215:LEU:HB3	12:9e:217:LEU:CD1	2.47	0.44
12:9g:27:GLU:OE2	12:9g:318:ARG:NH2	2.40	0.44
12:Ac:102:ALA:HB1	12:Ac:401:GLU:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ac:317:PHE:HB3	12:Ac:321:MET:CE	2.46	0.44
12:Ae:151:LEU:O	12:Ae:155:ILE:HG12	2.18	0.44
12:Ba:86:ARG:CZ	12:Ca:278:SER:HB2	2.47	0.44
12:Be:52:ASN:HB3	12:Be:60:VAL:CG2	2.47	0.44
12:Bg:99:ASN:HA	12:Bg:142:GLY:H	1.82	0.44
12:Bg:193:VAL:HG13	12:Bg:262:ARG:HB2	2.00	0.44
12:Ca:151:LEU:O	12:Ca:155:ILE:HG12	2.18	0.44
12:Ca:396:HIS:CD2	13:Cb:263:PRO:HD3	2.53	0.44
13:Cb:177:VAL:HG22	12:Cc:327:ASP:CG	2.43	0.44
12:Cc:143:THR:OG1	53:Cc:502:GDP:O1B	2.35	0.44
12:Cc:322:SER:HB3	12:Cc:325:GLU:CG	2.47	0.44
12:Ce:238:CYS:SG	12:Ce:239:CYS:N	2.91	0.44
13:Cf:74:VAL:O	13:Cf:78:VAL:HG23	2.17	0.44
54:Cf:501:GTP:H8	12:Cg:246:LEU:HD13	1.82	0.44
12:Cg:68:LEU:HD21	12:Cg:147:MET:SD	2.58	0.44
12:Da:151:LEU:O	12:Da:155:ILE:HG12	2.17	0.44
12:Da:154:LYS:HA	12:Da:157:GLU:OE2	2.17	0.44
12:Da:232:VAL:HG22	12:Da:270:PHE:HB2	1.99	0.44
12:Dc:39:ASP:OD2	12:Dc:40:SER:N	2.50	0.44
13:Dd:68:LEU:HD12	13:Dd:93:ILE:HB	1.99	0.44
12:De:327:ASP:OD1	12:De:328:GLU:N	2.51	0.44
12:Dg:403:MET:HE2	12:Dg:403:MET:HB3	1.88	0.44
13:Dh:68:LEU:HD12	13:Dh:93:ILE:HB	1.99	0.44
1:0J:295:VAL:HG23	1:0J:317:LEU:HD22	1.99	0.44
1:0W:273:THR:O	1:0W:277:GLU:HG2	2.18	0.44
1:0I:250:ALA:HB1	1:0I:252:ILE:HG12	2.00	0.44
1:0K:64:ALA:O	1:0K:68:LEU:HG	2.16	0.44
1:0B:105:PHE:O	1:0B:108:ARG:HG2	2.18	0.44
1:0B:336:ALA:O	1:0B:340:LEU:HG	2.17	0.44
1:0D:318:GLY:HA3	1:0D:359:THR:HG22	2.00	0.44
1:0E:324:SER:OG	1:0E:326:THR:HG22	2.18	0.44
1:0G:410:LYS:HA	44:5O:27:GLY:HA3	1.99	0.44
1:0L:80:VAL:HG22	1:0L:85:LEU:HD22	2.00	0.44
1:0Q:74:ASP:OD1	1:0Q:75:LEU:N	2.50	0.44
1:0T:153:ALA:O	1:0T:197:HIS:CD2	2.71	0.44
1:0T:355:ALA:O	1:0T:359:THR:HG23	2.16	0.44
1:0U:210:ALA:O	1:0U:214:LEU:HG	2.16	0.44
1:0U:213:TYR:O	1:0U:216:PRO:HD2	2.18	0.44
1:0X:147:TRP:CD1	1:0X:186:ILE:HG23	2.53	0.44
1:0X:218:VAL:HG22	1:0X:229:VAL:HG21	2.00	0.44
1:0Y:328:ALA:O	1:0Y:331:VAL:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:256:ILE:HG23	1:1A:271:SER:HB2	1.99	0.44
1:1A:318:GLY:HA3	1:1A:359:THR:HG22	2.00	0.44
1:1B:83:GLU:C	1:1B:86:PRO:HD2	2.43	0.44
1:1B:317:LEU:HD21	1:1B:331:VAL:HG21	1.99	0.44
1:1B:408:ILE:HD11	1:1B:420:LEU:HD23	1.98	0.44
1:1C:70:ASN:HA	1:1C:113:HIS:NE2	2.33	0.44
1:1C:307:GLY:HA2	1:1C:310:ARG:HD3	1.99	0.44
2:1D:43:LEU:HD21	2:1D:87:LYS:HB3	2.00	0.44
2:1D:209:VAL:O	2:1D:213:LEU:HD23	2.17	0.44
2:1D:231:ASN:O	2:1D:233:LEU:N	2.47	0.44
2:1E:345:GLY:HA2	2:1E:386:LEU:HD13	1.99	0.44
3:1H:679:GLU:CG	3:1H:751:VAL:HG22	2.48	0.44
3:1H:927:SER:HB3	3:1H:930:LYS:HG3	1.99	0.44
3:1H:1006:ASP:CB	47:6A:409:ARG:HH11	2.26	0.44
6:1N:330:VAL:HG22	6:1N:342:ALA:HB2	2.00	0.44
6:1N:1354:GLY:HA3	6:1N:1468:VAL:HG12	1.99	0.44
6:1N:1897:LEU:HD21	6:1N:1958:VAL:HG22	2.00	0.44
6:1N:2441:LEU:HD12	6:1N:2442:PRO:HD2	2.00	0.44
7:1O:2560:LEU:O	7:1O:2564:THR:HG23	2.18	0.44
10:1S:403:VAL:HG11	10:1S:412:TRP:CD2	2.52	0.44
12:1a:257:LEU:HA	12:1a:312:THR:CG2	2.42	0.44
12:1c:248:ALA:CB	12:1c:252:LYS:HD2	2.47	0.44
13:1h:21:TRP:HZ3	13:1h:52:PHE:HB3	1.82	0.44
14:2F:122:ALA:C	14:2F:124:ASP:N	2.75	0.44
24:2V:152:GLU:HA	13:Df:176:GLN:HE21	1.82	0.44
12:2c:99:ASN:HA	12:2c:142:GLY:H	1.82	0.44
12:2c:165:LEU:HD11	12:2c:200:MET:HE2	1.99	0.44
12:2e:113:ILE:HD13	12:2e:150:LEU:HG	1.99	0.44
12:2e:151:LEU:O	12:2e:155:ILE:HG12	2.18	0.44
30:3F:336:VAL:HA	30:3F:337:PRO:HD2	1.60	0.44
30:3F:513:LEU:HD12	12:7a:106:TYR:CE2	2.53	0.44
30:3G:605:SER:O	30:3G:608:THR:HG22	2.17	0.44
32:3K:118:TYR:OH	32:3K:137:HIS:HB3	2.18	0.44
33:3L:41:PHE:HD1	33:3L:44:PHE:HZ	1.60	0.44
33:3L:105:LEU:C	33:3L:128:LEU:HD13	2.43	0.44
34:3N:219:ILE:O	34:3N:222:LEU:HB3	2.18	0.44
34:3O:370:GLU:HA	34:3Y:360:VAL:CB	2.23	0.44
34:3P:462:GLU:HA	34:3P:465:LYS:HG2	2.00	0.44
34:3Q:60:TYR:CE1	34:3Q:298:ALA:HB1	2.52	0.44
34:3R:252:GLU:H	34:3W:488:ARG:HH22	1.66	0.44
34:3R:485:TYR:HD2	34:3W:248:PHE:CD2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3S:456:LEU:O	34:3S:459:ILE:HG22	2.17	0.44
34:3V:234:ARG:HG2	34:3Z:336:ARG:HE	1.82	0.44
34:3W:419:LEU:HD12	34:3W:419:LEU:HA	1.83	0.44
34:3Y:71:LEU:HD11	34:3Y:426:LEU:HD12	2.00	0.44
34:3Y:279:ASN:O	34:3Y:283:THR:HG23	2.17	0.44
34:3Y:288:MET:HE3	34:3Y:288:MET:HB2	1.46	0.44
34:3Z:75:GLN:HB2	34:3Z:419:LEU:HD22	2.00	0.44
13:3d:407:TRP:CD2	12:3e:255:VAL:HG22	2.53	0.44
12:3g:178:THR:OG1	12:3g:181:GLU:HG3	2.18	0.44
13:3h:21:TRP:HZ3	13:3h:52:PHE:HB3	1.82	0.44
13:3h:273:ALA:N	13:3h:375:VAL:O	2.48	0.44
34:4B:352:LEU:HB3	34:4B:356:PHE:CE1	2.50	0.44
34:4B:461:ALA:O	34:4B:464:LEU:HG	2.18	0.44
35:4C:489:CYS:SG	35:4C:493:GLN:N	2.90	0.44
36:4D:233:LEU:CD1	36:4D:259:GLN:HB3	2.48	0.44
37:4E:601:GLU:HG3	37:4E:1776:VAL:CG1	2.48	0.44
37:4E:617:VAL:HB	37:4E:1704:GLN:HA	2.00	0.44
37:4F:1085:MET:H	38:4N:41:LYS:HE2	1.83	0.44
37:4F:1147:ALA:HB1	37:4F:1151:ALA:O	2.18	0.44
37:4F:1321:THR:O	38:4N:25:PRO:O	2.35	0.44
37:4F:1322:ARG:O	38:4N:26:GLU:CD	2.61	0.44
37:4G:534:HIS:O	37:4G:534:HIS:CD2	2.71	0.44
37:4G:934:TRP:CD1	37:4G:1463:CYS:HG	2.36	0.44
37:4G:1087:THR:HG21	37:4G:1381:PRO:HB3	1.99	0.44
37:4G:1332:SER:C	37:4G:1333:VAL:CG1	2.81	0.44
37:4G:1335:MET:CB	38:4L:28:VAL:O	2.65	0.44
37:4H:910:LEU:CD2	37:4H:915:SER:HB3	2.46	0.44
37:4H:969:LEU:HD11	37:4H:1073:LEU:HB3	2.00	0.44
37:4H:1167:ASP:O	37:4H:1168:ALA:C	2.61	0.44
37:4H:1324:THR:OG1	37:4H:1753:GLN:NE2	2.50	0.44
37:4H:1332:SER:C	38:4M:24:THR:O	2.61	0.44
37:4H:1341:ILE:CG2	38:4M:31:ALA:CB	2.93	0.44
38:4M:25:PRO:O	38:4M:26:GLU:C	2.56	0.44
39:4S:58:MET:O	39:4S:61:VAL:HG12	2.18	0.44
39:4S:172:THR:HB	39:4S:175:GLN:HB2	2.00	0.44
40:4T:257:VAL:O	40:4T:258:LEU:O	2.36	0.44
40:4U:205:THR:OG1	40:4U:257:VAL:HG13	2.18	0.44
40:4V:259:THR:N	40:4V:262:GLN:HE21	2.11	0.44
40:4V:338:TYR:O	40:4V:342:THR:HG23	2.17	0.44
13:4b:21:TRP:HZ3	13:4b:52:PHE:HB3	1.82	0.44
13:4d:68:LEU:HD12	13:4d:93:ILE:HB	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:4g:107:THR:OG1	12:4g:108:GLU:N	2.51	0.44
42:5H:81:VAL:HG23	42:5H:133:LEU:HD23	2.00	0.44
42:5H:107:ARG:HD3	42:5H:110:PRO:HA	1.99	0.44
43:5I:51:HIS:HB3	43:5I:55:TYR:CE2	2.53	0.44
43:5K:4:ASN:HB3	43:5K:116:VAL:HG22	1.99	0.44
43:5K:7:TRP:HH2	43:5K:69:ASP:OD2	2.00	0.44
43:5K:32:LEU:HA	43:5K:32:LEU:HD12	1.50	0.44
44:5S:87:ASP:CG	44:5S:90:ARG:HH12	2.26	0.44
44:5T:87:ASP:CG	44:5T:90:ARG:HH12	2.26	0.44
44:5U:86:GLU:HG3	44:5U:150:THR:HB	1.98	0.44
12:5a:171:PRO:HA	12:5a:181:GLU:OE2	2.18	0.44
12:5c:67:ASP:O	12:5c:92:PHE:HA	2.17	0.44
12:5c:397:TRP:CD2	13:5d:257:THR:HG22	2.53	0.44
12:5e:335:ASN:O	12:5e:338:SER:OG	2.32	0.44
47:6A:101:LEU:HA	47:6A:104:ILE:HD12	1.99	0.44
47:6A:545:ASP:HB3	47:6A:548:ALA:HB3	2.00	0.44
47:6A:848:THR:CG2	47:6A:866:LEU:HD21	2.47	0.44
47:6A:1289:VAL:HG12	47:6A:1334:ALA:CB	2.48	0.44
47:6B:1453:ALA:O	47:6B:1456:GLN:HG2	2.18	0.44
47:6B:1661:LEU:HB3	47:6B:1765:ARG:CB	2.48	0.44
47:6B:1911:VAL:HG23	47:6B:1915:LEU:HB2	1.99	0.44
3:6D:189:LEU:HA	3:6D:192:ARG:HD3	2.00	0.44
48:6E:132:LEU:HD23	48:6E:132:LEU:HA	1.83	0.44
48:6E:607:HIS:CG	48:6E:608:CYS:N	2.86	0.44
48:6F:601:ARG:HD3	48:6F:666:TRP:HB3	2.00	0.44
48:6F:719:LEU:HD11	48:6F:820:LEU:HD22	1.99	0.44
48:6F:857:HIS:ND1	48:6F:946:LEU:HD21	2.32	0.44
48:6F:897:GLU:HB2	48:6F:899:LEU:HD23	1.99	0.44
48:6F:947:VAL:HG12	48:6F:949:LEU:HD22	2.00	0.44
49:6I:366:VAL:C	49:6I:367:THR:HG1	2.14	0.44
49:6J:340:PHE:HB2	49:6J:348:CYS:SG	2.58	0.44
50:6L:562:ASP:O	50:6L:563:LYS:HG2	2.18	0.44
51:6M:2155:VAL:O	51:6M:2300:VAL:HA	2.18	0.44
51:6M:2167:VAL:HG22	51:6M:2241:LEU:HD13	2.00	0.44
51:6N:1245:GLY:O	51:6N:1246:PRO:C	2.61	0.44
51:6N:1936:GLU:HG3	51:6N:1950:THR:HA	1.98	0.44
12:6a:11:GLN:HA	12:6a:72:THR:HG21	2.00	0.44
12:6a:311:LEU:HA	12:6a:342:VAL:HG21	2.00	0.44
13:6d:68:LEU:HD12	13:6d:93:ILE:HB	1.99	0.44
13:6d:317:LEU:HB3	13:6d:319:TYR:CE1	2.53	0.44
12:6e:139:LEU:HD12	12:6e:170:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:6h:68:LEU:HD12	13:6h:93:ILE:HB	1.99	0.44
13:7d:145:THR:OG1	54:7e:501:GTP:O3B	2.31	0.44
13:7f:74:VAL:O	13:7f:78:VAL:HG23	2.17	0.44
13:7f:145:THR:OG1	54:7f:501:GTP:O3B	2.31	0.44
12:8a:20:PHE:CA	12:8a:230:SER:HB2	2.41	0.44
12:8a:174:LYS:NZ	13:8b:333:ALA:CA	2.79	0.44
12:8e:172:SER:HB2	12:8e:205:GLU:CD	2.43	0.44
12:8g:107:THR:OG1	12:8g:108:GLU:N	2.50	0.44
13:8h:68:LEU:HD12	13:8h:93:ILE:HB	1.99	0.44
12:9c:317:PHE:HB3	12:9c:321:MET:CE	2.46	0.44
13:9d:30:ILE:HA	13:9d:36:MET:HB3	1.98	0.44
13:9f:74:VAL:O	13:9f:78:VAL:HG23	2.17	0.44
12:Aa:70:PRO:HG3	12:Aa:92:PHE:CD2	2.53	0.44
13:Ab:74:VAL:O	13:Ab:78:VAL:HG23	2.17	0.44
12:Ac:68:LEU:HD21	12:Ac:147:MET:SD	2.58	0.44
12:Ae:70:PRO:HG3	12:Ae:92:PHE:HD2	1.82	0.44
12:Ae:238:CYS:SG	12:Ae:239:CYS:N	2.91	0.44
12:Ag:48:ASN:O	12:Ag:62:ARG:NH2	2.45	0.44
13:Bf:224:TYR:HE2	12:Bg:246:LEU:HB2	1.82	0.44
12:Ca:48:ASN:O	12:Ca:62:ARG:NH2	2.45	0.44
13:Cb:74:VAL:O	13:Cb:78:VAL:HG23	2.17	0.44
13:Cb:407:TRP:HZ2	12:Cc:258:ILE:HD12	1.81	0.44
12:Ce:100:ASN:HB2	13:Cf:257:THR:HG21	2.00	0.44
13:Cf:90:GLU:OE1	13:Cf:121:ARG:NE	2.44	0.44
12:Da:21:TRP:CZ2	12:Da:63:ALA:HB2	2.53	0.44
13:Dd:21:TRP:HZ3	13:Dd:52:PHE:HB3	1.82	0.44
12:De:184:ASN:OD1	12:De:398:TYR:OH	2.28	0.44
13:Df:68:LEU:HD12	13:Df:93:ILE:HB	1.99	0.44
1:0H:253:PHE:HA	1:0H:256:ILE:HB	2.00	0.44
1:0H:386:LEU:HB3	1:0H:396:LEU:HD21	2.00	0.44
1:0J:168:ALA:O	1:0J:172:LEU:HG	2.18	0.44
1:0I:213:TYR:C	1:0I:216:PRO:HD2	2.43	0.44
1:0K:83:GLU:O	1:0K:86:PRO:HD2	2.18	0.44
1:0A:147:TRP:CD1	1:0A:186:ILE:HG23	2.53	0.44
1:0B:23:ALA:O	1:0B:27:MET:HG2	2.18	0.44
1:0G:193:ASP:O	1:0G:197:HIS:CD2	2.71	0.44
1:0G:307:GLY:HA2	1:0G:310:ARG:HD3	1.99	0.44
1:0M:134:LEU:HD13	1:0M:171:LEU:CB	2.48	0.44
1:0M:251:GLU:OE2	1:0M:254:PRO:HD3	2.17	0.44
1:0N:6:VAL:HG22	1:0O:27:MET:HG3	2.00	0.44
1:0N:269:LYS:HB2	1:0N:309:ASN:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0S:86:PRO:HA	1:0S:89:VAL:HG22	1.99	0.44
1:0S:213:TYR:O	1:0S:216:PRO:HD2	2.18	0.44
1:0U:238:LYS:HE2	1:0U:238:LYS:HB3	1.83	0.44
1:0V:164:VAL:O	1:0V:167:GLY:HA2	2.18	0.44
1:0V:255:LYS:O	1:0V:258:THR:OG1	2.31	0.44
1:0Y:298:LEU:HD23	1:0Y:298:LEU:HA	1.89	0.44
1:0Z:182:SER:HA	1:0Z:185:ARG:NE	2.33	0.44
1:0Z:343:ALA:O	1:0Z:346:GLU:C	2.60	0.44
1:1A:263:PRO:HG3	5:1L:509:LEU:HD13	1.99	0.44
1:1B:233:LEU:HD12	1:1B:233:LEU:HA	1.69	0.44
1:1B:242:ASP:OD2	1:1B:243:LEU:N	2.51	0.44
1:1C:134:LEU:HA	1:1C:142:LYS:HG2	2.00	0.44
2:1E:124:ASN:CA	2:1E:168:ASN:HD21	2.30	0.44
2:1F:114:HIS:CD2	2:1F:116:SER:OG	2.71	0.44
3:1H:197:SER:HB3	47:6A:289:GLN:HB3	2.00	0.44
3:1H:272:PRO:O	3:1H:276:ARG:HD3	2.18	0.44
3:1I:688:LEU:HD11	3:1I:695:THR:HG21	1.99	0.44
4:1K:323:VAL:HG12	4:1K:324:LYS:HG3	2.00	0.44
7:1O:337:VAL:HG21	7:1O:638:ASP:HB2	2.00	0.44
7:1O:1647:VAL:CG1	7:1O:1730:VAL:HG13	2.47	0.44
12:1a:91:VAL:HG21	12:1a:115:SER:OG	2.17	0.44
12:1e:113:ILE:HD13	12:1e:150:LEU:HG	1.99	0.44
14:2F:106:TRP:CZ3	14:2F:109:GLN:O	2.71	0.44
24:2V:143:SER:HA	13:Cf:116:ASP:OD2	2.18	0.44
24:2V:156:LYS:HB3	24:2V:160:ARG:NH2	2.33	0.44
12:2a:1:MET:HE1	12:2a:128:ASP:OD1	2.18	0.44
12:2a:87:PRO:HG2	12:3a:278:SER:HB2	2.00	0.44
12:2a:397:TRP:CZ2	13:2b:260:VAL:HB	2.40	0.44
13:2b:72:PRO:HG3	12:2c:1:MET:HG2	1.98	0.44
12:2e:209:ASP:OD2	12:2e:297:LYS:HG2	2.17	0.44
12:2e:267:MET:HE1	12:2e:305:PRO:HG3	1.99	0.44
13:2f:74:VAL:O	13:2f:78:VAL:HG23	2.17	0.44
28:3C:527:ARG:O	28:3C:530:GLU:HG3	2.18	0.44
29:3E:1170:ASN:O	29:3E:1174:LEU:HG	2.16	0.44
31:3H:243:VAL:HG12	31:3H:247:ARG:HE	1.83	0.44
32:3J:58:LEU:CD1	32:3J:116:TYR:CZ	3.01	0.44
32:3J:103:MET:HG3	12:Ac:424:GLN:CG	2.48	0.44
34:3M:251:LEU:HA	34:3M:481:LEU:HD21	1.98	0.44
34:3M:257:LYS:HD2	34:3M:257:LYS:C	2.43	0.44
34:3N:90:GLU:O	34:3N:94:THR:HG23	2.18	0.44
34:3P:46:ARG:HG2	34:3P:445:TYR:HE2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3Q:72:PRO:HA	34:3Q:75:GLN:HG3	2.00	0.44
34:3Q:109:LEU:HD21	34:3U:495:GLN:NE2	2.32	0.44
34:3Q:115:SER:O	34:3Q:119:MET:HG2	2.18	0.44
34:3R:384:ASN:HA	34:3R:387:VAL:CG1	2.48	0.44
34:3T:56:TYR:CG	34:3T:295:GLN:HG3	2.52	0.44
34:3T:284:PHE:CE2	34:3T:288:MET:HE3	2.53	0.44
34:3T:284:PHE:O	34:3T:288:MET:HG2	2.18	0.44
34:3U:338:LEU:HD23	34:3U:338:LEU:C	2.43	0.44
34:3V:359:ARG:HG2	34:3V:360:VAL:H	1.82	0.44
34:3W:361:LEU:HD11	34:3W:371:ALA:HB2	1.99	0.44
34:3X:89:ILE:O	34:3X:93:VAL:HG23	2.17	0.44
34:3X:336:ARG:HE	34:4A:234:ARG:HG2	1.82	0.44
12:3a:151:LEU:O	12:3a:155:ILE:HG12	2.18	0.44
13:3b:68:LEU:HD12	13:3b:93:ILE:HB	1.99	0.44
12:3c:19:LYS:O	12:3c:23:VAL:HG13	2.18	0.44
12:3c:145:SER:HB2	12:3c:188:SER:OG	2.18	0.44
12:3e:141:GLY:O	12:3e:145:SER:OG	2.27	0.44
13:3f:273:ALA:N	13:3f:375:VAL:O	2.48	0.44
13:3h:423:GLU:HG2	39:4Q:214:LEU:HD22	2.00	0.44
34:4A:71:LEU:O	34:4A:75:GLN:HG3	2.18	0.44
34:4A:359:ARG:HG2	34:4A:360:VAL:H	1.82	0.44
34:4B:71:LEU:O	34:4B:75:GLN:HG3	2.18	0.44
36:4D:104:LEU:HD21	36:4D:117:LEU:HD22	1.99	0.44
37:4E:734:GLN:HG2	37:4E:742:VAL:CG2	2.46	0.44
37:4E:1128:ALA:HB1	37:4E:1151:ALA:HB2	2.00	0.44
37:4E:1626:VAL:HG11	37:4E:1634:PHE:CE2	2.53	0.44
37:4E:1698:VAL:O	37:4E:1777:TYR:HA	2.17	0.44
37:4F:691:MET:HG3	37:4F:692:MET:N	2.33	0.44
37:4F:788:LEU:CD1	37:4F:1627:ILE:HD11	2.48	0.44
37:4F:960:LEU:HD12	37:4F:960:LEU:HA	1.41	0.44
37:4F:978:ALA:HA	37:4F:1067:PRO:HD2	1.99	0.44
37:4G:673:THR:OG1	37:4G:674:HIS:ND1	2.42	0.44
37:4G:958:LEU:HD22	38:4L:46:ALA:N	2.33	0.44
37:4G:978:ALA:HA	37:4G:1067:PRO:HD2	1.99	0.44
37:4G:1335:MET:CG	38:4L:32:GLU:OE1	2.65	0.44
37:4H:952:ASP:HB3	37:4H:955:GLY:N	2.32	0.44
37:4H:1081:HIS:CE1	37:4H:1096:ALA:H	2.36	0.44
37:4H:1302:ASN:HB2	37:4H:1318:TYR:HD1	1.83	0.44
38:4N:52:TYR:O	38:4N:56:THR:HG23	2.18	0.44
40:4T:381:ILE:O	40:4T:385:THR:HG22	2.18	0.44
40:4T:487:LEU:HG	40:4T:522:LEU:CD1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:4U:487:LEU:HG	40:4U:522:LEU:CD1	2.48	0.44
40:4V:302:CYS:SG	40:4V:364:LEU:HB2	2.58	0.44
40:4V:332:SER:HA	40:4V:335:VAL:HG12	2.00	0.44
40:4V:381:ILE:O	40:4V:385:THR:HG22	2.18	0.44
12:4a:21:TRP:CZ2	12:4a:63:ALA:HB2	2.53	0.44
12:4e:60:VAL:HB	12:4e:86:ARG:NE	2.33	0.44
13:4f:68:LEU:HD12	13:4f:93:ILE:HB	1.99	0.44
42:5H:103:LEU:HD23	42:5H:103:LEU:HA	1.84	0.44
42:5H:137:TYR:HD1	43:5L:46:PRO:C	2.19	0.44
43:5J:83:HIS:CE1	43:5J:142:TYR:HD1	2.36	0.44
43:5L:51:HIS:HB3	43:5L:55:TYR:CE2	2.53	0.44
44:5V:112:VAL:HG13	44:5V:116:LEU:HD12	1.98	0.44
12:5a:318:ARG:HB3	12:5a:357:PRO:HA	1.99	0.44
12:5c:113:ILE:HD12	12:5c:116:VAL:HG21	2.00	0.44
12:5c:165:LEU:HD11	12:5c:200:MET:HE2	2.00	0.44
12:5g:170:VAL:CG2	12:5g:201:VAL:HG13	2.48	0.44
47:6A:877:SER:CB	48:6F:61:ARG:H	2.31	0.44
47:6A:1661:LEU:HB3	47:6A:1765:ARG:CB	2.48	0.44
47:6B:17:VAL:HG21	47:6B:21:LEU:HD23	2.00	0.44
48:6E:601:ARG:HD3	48:6E:666:TRP:HB3	2.00	0.44
48:6E:691:ASN:HB2	48:6E:825:VAL:HA	2.00	0.44
48:6F:126:GLN:HB2	48:6F:129:ASP:HB2	2.00	0.44
48:6F:186:THR:O	48:6F:209:ASN:HB2	2.18	0.44
49:6G:64:VAL:HG12	49:6G:110:VAL:CG1	2.47	0.44
49:6H:204:ALA:H	49:6H:305:LYS:HZ2	1.65	0.44
49:6I:264:GLU:HA	49:6I:267:ASN:HD22	1.83	0.44
49:6J:315:LYS:HD2	49:6J:319:GLN:CD	2.43	0.44
50:6K:50:ARG:CD	50:6K:531:TYR:HB3	2.48	0.44
50:6K:603:LYS:HA	50:6K:606:GLU:OE2	2.18	0.44
50:6L:237:GLU:HG3	50:6L:238:ASP:OD1	2.17	0.44
50:6L:297:VAL:HG12	50:6L:299:PHE:HD2	1.83	0.44
50:6L:486:ILE:HG12	50:6L:492:LEU:HD22	2.00	0.44
51:6M:1245:GLY:O	51:6M:1246:PRO:C	2.61	0.44
51:6M:1556:LEU:HD21	51:6M:1987:PHE:CD1	2.52	0.44
51:6M:2260:ALA:O	51:6M:2262:ASP:N	2.51	0.44
51:6M:2368:TYR:O	51:6M:2372:VAL:HG23	2.17	0.44
51:6N:2155:VAL:O	51:6N:2300:VAL:HA	2.18	0.44
51:6N:2260:ALA:O	51:6N:2262:ASP:N	2.51	0.44
12:6a:7:ILE:HD13	12:6a:135:VAL:HG12	2.00	0.44
12:6e:21:TRP:CZ2	12:6e:63:ALA:HB2	2.53	0.44
12:6e:172:SER:HB2	12:6e:205:GLU:CD	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6e:185:ALA:O	12:6e:189:VAL:HG23	2.18	0.44
13:6f:68:LEU:HD12	13:6f:93:ILE:HB	1.99	0.44
13:6h:273:ALA:N	13:6h:375:VAL:O	2.48	0.44
12:7a:42:LEU:HD13	12:7a:356:ILE:HD11	1.99	0.44
12:7a:258:ILE:HG12	12:7a:266:PHE:HZ	1.83	0.44
12:7e:278:SER:HA	12:7e:281:TYR:CB	2.42	0.44
13:7f:68:LEU:HD12	13:7f:93:ILE:HB	1.99	0.44
13:7f:210:TYR:CD1	12:7g:324:LYS:HB2	2.53	0.44
12:7g:384:GLN:NE2	13:7h:349:THR:HG22	2.33	0.44
12:8a:258:ILE:HG12	12:8a:266:PHE:HZ	1.83	0.44
12:8a:344:TRP:CZ3	12:8a:345:ILE:HD11	2.53	0.44
12:8c:189:VAL:HG21	12:8c:378:PHE:CE1	2.53	0.44
13:8d:21:TRP:HZ3	13:8d:52:PHE:HB3	1.82	0.44
12:9a:193:VAL:HG12	12:9a:262:ARG:HG2	1.99	0.44
12:9a:278:SER:HA	12:9a:281:TYR:CD2	2.53	0.44
12:9c:165:LEU:HD11	12:9c:200:MET:HE2	1.99	0.44
12:9e:103:LYS:O	12:9e:108:GLU:HB2	2.18	0.44
13:9h:74:VAL:O	13:9h:78:VAL:HG23	2.17	0.44
12:Aa:151:LEU:O	12:Aa:155:ILE:HG12	2.18	0.44
13:Ad:406:HIS:CE1	12:Ae:261:PRO:HD3	2.52	0.44
12:Ae:95:THR:HA	13:Af:133:GLN:HE22	1.82	0.44
13:Af:90:GLU:OE1	13:Af:121:ARG:NE	2.44	0.44
12:Ba:48:ASN:O	12:Ba:62:ARG:NH2	2.43	0.44
12:Ba:277:GLY:O	12:Ba:281:TYR:CD2	2.71	0.44
13:Bd:68:LEU:HD12	13:Bd:93:ILE:HB	1.99	0.44
12:Cc:104:GLY:O	12:Cc:147:MET:HG3	2.18	0.44
12:Cc:161:ASP:N	12:Cc:161:ASP:OD1	2.50	0.44
13:Cd:74:VAL:O	13:Cd:78:VAL:HG23	2.17	0.44
12:Ce:98:GLY:HA2	13:Cf:254:GLU:HG3	1.98	0.44
12:Ce:151:LEU:O	12:Ce:155:ILE:HG12	2.18	0.44
12:Ce:274:THR:OG1	12:Ce:282:ARG:NH1	2.51	0.44
12:Da:286:VAL:O	12:Da:290:THR:HG23	2.18	0.44
12:Dc:68:LEU:HD21	12:Dc:147:MET:SD	2.58	0.44
12:De:33:THR:OG1	12:De:35:THR:HG22	2.18	0.44
12:De:213:ARG:HD2	12:De:297:LYS:HD2	1.98	0.44
13:Df:21:TRP:HZ3	13:Df:52:PHE:HB3	1.82	0.44
1:0K:70:ASN:HA	1:0K:113:HIS:NE2	2.33	0.44
44:5P:55:MET:HE3	44:5P:79:LYS:HE2	1.98	0.44
1:0A:24:VAL:HG11	1:0A:46:LEU:HD21	1.99	0.43
1:0B:204:ALA:HA	1:0B:207:ASP:OD2	2.18	0.43
1:0D:320:ILE:HB	1:0D:327:LEU:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0D:332:ILE:HD13	1:0D:337:LEU:HD13	1.99	0.43
1:0F:176:VAL:HG11	1:0F:213:TYR:HB3	1.99	0.43
1:0F:262:PHE:O	1:0F:268:LYS:HD3	2.18	0.43
1:0F:328:ALA:O	1:0F:332:ILE:HG12	2.17	0.43
1:0F:332:ILE:HD11	1:0F:363:ILE:HG21	2.00	0.43
1:0G:241:VAL:HG13	1:0G:281:HIS:HB3	2.00	0.43
1:0G:260:LEU:HD11	1:0G:298:LEU:HD23	1.99	0.43
1:0G:273:THR:O	1:0G:277:GLU:HG2	2.18	0.43
1:0L:56:SER:HA	1:0L:59:GLN:CD	2.42	0.43
1:0L:95:GLN:O	1:0L:100:LYS:NZ	2.51	0.43
1:0O:251:GLU:OE1	1:0O:254:PRO:HD3	2.17	0.43
1:0Q:24:VAL:HA	1:0Q:27:MET:SD	2.58	0.43
1:0Q:213:TYR:O	1:0Q:216:PRO:HD2	2.18	0.43
1:0S:105:PHE:O	1:0S:108:ARG:HG2	2.18	0.43
1:0T:380:LEU:CD2	1:0T:407:VAL:HG21	2.48	0.43
1:0U:289:VAL:HG12	1:0U:295:VAL:HG13	2.00	0.43
1:0X:133:CYS:HB3	1:0X:145:SER:HB3	2.00	0.43
1:0Y:79:VAL:HG13	1:0Y:84:ILE:HB	2.00	0.43
1:0Y:122:ILE:HG12	1:0Y:127:LEU:HD21	1.99	0.43
1:0Y:173:VAL:HG12	1:0Y:177:GLN:HE21	1.83	0.43
1:0Y:271:SER:O	1:0Y:275:VAL:HG23	2.18	0.43
1:1A:251:GLU:OE2	1:1A:254:PRO:HD3	2.18	0.43
1:1B:252:ILE:HA	1:1B:255:LYS:HE2	1.99	0.43
1:1C:350:ASP:HA	1:1C:396:LEU:HD11	2.00	0.43
2:1D:147:MET:CG	2:1D:172:LEU:HD13	2.48	0.43
3:1H:176:VAL:O	3:1H:180:VAL:HG23	2.18	0.43
3:1H:848:ARG:HD2	47:6A:380:ARG:O	2.17	0.43
3:1H:860:HIS:HD2	3:1H:957:LEU:HD23	1.83	0.43
3:1I:272:PRO:O	3:1I:276:ARG:HD3	2.18	0.43
4:1J:323:VAL:HG12	4:1J:324:LYS:HG3	2.00	0.43
5:1M:234:GLU:HA	5:1M:317:VAL:O	2.18	0.43
7:1O:788:GLN:HE22	7:1O:839:GLN:H	1.64	0.43
7:1O:1359:ARG:O	7:1O:1362:GLU:HB2	2.18	0.43
7:1O:1453:GLU:HG3	7:1O:1454:ALA:N	2.32	0.43
7:1O:2271:THR:HG22	7:1O:2362:ARG:HH12	1.83	0.43
7:1O:2878:LEU:HA	7:1O:3001:LYS:HG2	2.00	0.43
11:1T:943:GLY:O	11:1T:947:SER:N	2.50	0.43
12:1a:11:GLN:HG3	13:1b:249:ASN:HB2	2.00	0.43
12:1a:21:TRP:CD1	12:1a:85:PHE:HE1	2.36	0.43
12:1a:151:LEU:O	12:1a:155:ILE:HG12	2.18	0.43
12:1a:406:MET:HE3	12:1a:406:MET:HB3	1.88	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1e:286:VAL:O	12:1e:290:THR:HG23	2.18	0.43
14:2G:10:ASP:OD2	14:2G:13:LYS:HG3	2.18	0.43
14:2G:122:ALA:C	14:2G:124:ASP:N	2.75	0.43
15:2H:39:UNK:HA	12:Dg:279:GLN:CD	2.43	0.43
30:3F:301:VAL:HG12	13:6f:264:ARG:CD	2.48	0.43
30:3F:372:GLU:HB3	13:8f:386:GLU:CG	2.38	0.43
31:3I:153:GLU:HG3	31:3I:156:ARG:CZ	2.48	0.43
32:3K:155:ARG:CZ	32:3K:243:PHE:HD1	2.31	0.43
33:3L:48:GLU:O	33:3L:69:LEU:HD12	2.18	0.43
34:3M:81:GLU:O	34:3M:84:GLU:HG2	2.18	0.43
34:3P:38:HIS:NE2	34:3P:42:LEU:HD21	2.33	0.43
34:3R:248:PHE:CD2	34:3W:485:TYR:HD1	2.36	0.43
34:3R:258:TYR:O	34:3R:262:THR:HG23	2.18	0.43
34:3R:279:ASN:O	34:3R:283:THR:HG23	2.17	0.43
34:3R:387:VAL:HG22	34:3R:391:GLU:OE2	2.17	0.43
34:3S:99:ARG:HA	34:3S:102:GLN:CD	2.42	0.43
34:3V:440:GLU:OE1	34:3V:443:ARG:NH1	2.51	0.43
34:3V:485:TYR:OH	34:3X:482:LEU:N	2.51	0.43
34:3W:191:ALA:HB2	34:3W:310:GLU:HG2	1.99	0.43
34:3X:266:HIS:ND1	34:3X:266:HIS:C	2.76	0.43
34:3Y:89:ILE:O	34:3Y:93:VAL:HG23	2.18	0.43
34:3Y:254:MET:CG	34:3Y:481:LEU:HD11	2.48	0.43
12:3a:350:LYS:NZ	12:3a:352:SER:HB2	2.33	0.43
12:3a:377:MET:HE2	12:3a:377:MET:HB2	1.59	0.43
12:3c:271:THR:OG1	12:3c:272:PRO:HA	2.18	0.43
13:3d:422:ARG:HB3	39:4S:214:LEU:HD21	1.99	0.43
12:3e:33:THR:OG1	12:3e:35:THR:HG22	2.18	0.43
12:3e:175:VAL:HG21	13:3f:332:VAL:HG13	2.00	0.43
12:3e:396:HIS:NE2	13:3f:261:PRO:O	2.50	0.43
37:4E:580:GLU:N	43:5L:35:LYS:CG	2.81	0.43
37:4E:580:GLU:C	43:5L:32:LEU:HD12	2.41	0.43
37:4E:581:LEU:CA	43:5L:33:LEU:C	2.87	0.43
37:4E:935:ARG:NH2	38:4P:72:ARG:C	2.76	0.43
37:4E:935:ARG:HH22	38:4P:72:ARG:CB	2.31	0.43
37:4E:1155:VAL:HG21	37:4E:1184:TRP:HH2	1.78	0.43
37:4E:1473:PHE:HB3	37:4E:1519:PRO:HD3	2.00	0.43
37:4F:761:SER:OG	37:4F:1616:VAL:HB	2.17	0.43
37:4F:856:MET:HB3	37:4F:856:MET:HE3	1.42	0.43
37:4F:902:GLN:HB2	37:4F:1523:PRO:HB3	1.99	0.43
37:4G:512:LEU:HD13	37:4G:1105:LEU:HD11	2.00	0.43
37:4G:671:LEU:HB3	38:4I:40:LYS:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:854:TYR:CG	38:4L:82:TYR:CG	3.04	0.43
37:4G:1144:LEU:HB2	37:4G:1323:ILE:HD13	2.00	0.43
37:4G:1532:LEU:HD13	37:4G:1606:PRO:HA	2.00	0.43
37:4G:1630:ASP:OD2	37:4G:1631:GLY:N	2.51	0.43
37:4H:534:HIS:CE1	37:4H:538:GLU:OE1	2.71	0.43
37:4H:978:ALA:HA	37:4H:1067:PRO:HD2	1.99	0.43
37:4H:1093:VAL:N	38:4M:32:GLU:C	2.76	0.43
37:4H:1093:VAL:HG22	38:4M:35:ALA:CB	2.45	0.43
37:4H:1333:VAL:CG2	37:4H:1341:ILE:C	2.78	0.43
37:4H:1335:MET:HB2	37:4H:1338:PHE:N	2.31	0.43
38:4K:26:GLU:CD	38:4K:26:GLU:CB	2.70	0.43
39:4S:136:LEU:HD13	1:0W:261:LYS:HZ1	1.83	0.43
40:4T:205:THR:OG1	40:4T:257:VAL:HG13	2.18	0.43
40:4T:382:ARG:HA	40:4T:385:THR:HG22	2.00	0.43
40:4T:455:THR:C	40:4T:457:THR:H	2.26	0.43
40:4U:50:LEU:HA	40:4U:53:VAL:HG22	2.00	0.43
40:4U:156:THR:O	40:4U:160:THR:HG23	2.17	0.43
40:4U:381:ILE:O	40:4U:385:THR:HG22	2.18	0.43
40:4V:257:VAL:O	40:4V:258:LEU:O	2.36	0.43
12:4a:151:LEU:O	12:4a:155:ILE:HG12	2.18	0.43
12:4a:161:ASP:O	12:4a:251:ARG:NH2	2.51	0.43
12:4e:102:ALA:HB1	12:4e:401:GLU:HB3	1.99	0.43
12:4e:238:CYS:SG	12:4e:239:CYS:N	2.91	0.43
12:4g:406:MET:HE3	12:4g:406:MET:HB3	1.85	0.43
42:5H:133:LEU:O	43:5L:46:PRO:CB	2.66	0.43
43:5K:83:HIS:CE1	43:5K:142:TYR:HD1	2.36	0.43
43:5L:142:TYR:O	43:5L:145:SER:HB2	2.17	0.43
44:5T:93:PHE:CZ	44:5T:145:PHE:CD2	3.06	0.43
12:5a:424:GLN:HG3	12:5a:425:TYR:N	2.32	0.43
12:5e:3:GLU:HB3	12:5e:62:ARG:HH21	1.83	0.43
12:5e:21:TRP:CZ2	12:5e:63:ALA:HB2	2.53	0.43
12:5e:210:ILE:HG22	12:5e:297:LYS:O	2.18	0.43
12:5e:334:GLN:HE21	12:5e:349:VAL:HG12	1.82	0.43
13:5h:68:LEU:HD12	13:5h:93:ILE:HB	1.99	0.43
13:5h:107:HIS:O	13:5h:112:LYS:NZ	2.41	0.43
47:6B:101:LEU:HA	47:6B:104:ILE:HD12	1.99	0.43
47:6B:545:ASP:HB3	47:6B:548:ALA:HB3	2.00	0.43
47:6B:618:LYS:O	47:6B:621:VAL:HG22	2.17	0.43
47:6B:629:ALA:O	47:6B:632:MET:HG3	2.17	0.43
47:6B:853:HIS:HD2	47:6B:856:PHE:H	1.66	0.43
47:6B:1323:GLU:N	47:6B:1323:GLU:OE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:1842:SER:O	50:6K:578:LYS:HE2	2.19	0.43
3:6D:763:CYS:HB3	3:6D:770:GLN:HG2	1.98	0.43
3:6D:1005:PRO:HG2	3:6D:1011:GLU:OE1	2.18	0.43
48:6E:178:VAL:HG23	48:6E:203:GLY:H	1.81	0.43
48:6E:186:THR:O	48:6E:209:ASN:HB2	2.18	0.43
48:6E:587:ILE:HG22	48:6E:588:PRO:O	2.18	0.43
48:6E:719:LEU:HD11	48:6E:820:LEU:HD22	1.99	0.43
48:6E:863:CYS:SG	48:6E:886:VAL:HG22	2.58	0.43
48:6F:178:VAL:HG23	48:6F:203:GLY:H	1.81	0.43
48:6F:587:ILE:HG22	48:6F:588:PRO:O	2.18	0.43
48:6F:607:HIS:CG	48:6F:608:CYS:N	2.86	0.43
49:6H:64:VAL:HG12	49:6H:110:VAL:CG1	2.47	0.43
49:6H:154:LEU:CD1	49:6H:389:ASN:HA	2.47	0.43
49:6I:315:LYS:HD2	49:6I:319:GLN:CD	2.43	0.43
49:6I:340:PHE:HB2	49:6I:348:CYS:SG	2.58	0.43
49:6I:460:GLU:HG3	49:6I:460:GLU:H	1.57	0.43
50:6K:105:ILE:HD11	50:6K:121:ILE:HD11	1.99	0.43
50:6K:562:ASP:O	50:6K:563:LYS:HG2	2.18	0.43
51:6M:1290:TYR:HA	51:6M:1295:LYS:CE	2.48	0.43
51:6M:1299:ASP:OD2	51:6M:1299:ASP:N	2.50	0.43
51:6N:1290:TYR:HA	51:6N:1295:LYS:HE3	1.99	0.43
51:6N:2038:GLN:HE21	51:6N:2116:SER:HB2	1.83	0.43
12:6a:3:GLU:HB3	12:6a:62:ARG:NH2	2.32	0.43
12:6a:86:ARG:HD2	12:7a:281:TYR:CB	2.48	0.43
12:6a:111:GLU:HA	12:6a:111:GLU:OE1	2.18	0.43
13:6b:68:LEU:HD12	13:6b:93:ILE:HB	1.99	0.43
13:6b:317:LEU:HB3	13:6b:319:TYR:CE1	2.53	0.43
12:6c:173:PRO:HA	12:6c:380:ARG:HD2	2.00	0.43
13:6d:273:ALA:N	13:6d:375:VAL:O	2.48	0.43
13:6f:317:LEU:HB3	13:6f:319:TYR:CE1	2.53	0.43
12:6g:378:PHE:HD1	12:6g:415:MET:HE3	1.83	0.43
13:6h:317:LEU:HB3	13:6h:319:TYR:CE1	2.53	0.43
12:7a:256:ASN:HB3	12:7a:350:LYS:CG	2.47	0.43
13:7d:68:LEU:HD12	13:7d:93:ILE:HB	1.99	0.43
12:7e:377:MET:HE2	12:7e:377:MET:HB2	1.92	0.43
13:7h:68:LEU:HD12	13:7h:93:ILE:HB	1.99	0.43
13:7h:145:THR:OG1	54:7h:501:GTP:O3B	2.31	0.43
13:8b:301:MET:HE1	13:8b:377:MET:HE1	2.00	0.43
13:8d:301:MET:HE1	13:8d:377:MET:HE1	2.00	0.43
12:8e:267:MET:HE1	12:8e:305:PRO:HG3	1.99	0.43
12:9e:16:ILE:HD11	12:9e:229:ILE:CG2	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:9f:404:PHE:CE1	12:9g:259:PRO:HA	2.53	0.43
12:Aa:21:TRP:CZ2	12:Aa:63:ALA:HB2	2.53	0.43
13:Ad:128:ASN:OD1	13:Bd:285:GLN:NE2	2.51	0.43
12:Ba:286:VAL:O	12:Ba:290:THR:HG23	2.18	0.43
13:Bd:30:ILE:HA	13:Bd:36:MET:HB3	1.98	0.43
13:Bd:301:MET:HE1	13:Bd:377:MET:HE1	2.00	0.43
13:Bh:301:MET:HE1	13:Bh:377:MET:HE1	2.01	0.43
12:Cg:161:ASP:N	12:Cg:161:ASP:OD1	2.50	0.43
13:Db:68:LEU:HD12	13:Db:93:ILE:HB	1.99	0.43
12:Dg:165:LEU:HD11	12:Dg:200:MET:HE2	1.99	0.43
12:Dg:317:PHE:HB3	12:Dg:321:MET:CE	2.47	0.43
1:0H:257:LEU:O	1:0H:260:LEU:HG	2.18	0.43
1:0W:354:SER:OG	1:0W:396:LEU:HA	2.18	0.43
1:0I:86:PRO:HA	1:0I:89:VAL:HG22	1.98	0.43
1:0K:196:LYS:HA	1:0K:239:HIS:HE1	1.83	0.43
44:5P:70:PRO:O	44:5P:74:MET:HG2	2.17	0.43
1:0A:71:TYR:HE1	47:6A:251:LEU:CD2	2.31	0.43
1:0A:335:LYS:HB2	1:0A:335:LYS:HE3	1.83	0.43
1:0B:307:GLY:HA2	1:0B:310:ARG:HD3	2.00	0.43
1:0B:338:PRO:HB2	1:0B:339:PRO:HD3	2.00	0.43
1:0C:30:ASN:O	1:0C:34:ILE:HG13	2.18	0.43
1:0D:251:GLU:OE2	1:0D:254:PRO:HD3	2.18	0.43
1:0F:260:LEU:HD11	1:0F:298:LEU:HD23	2.00	0.43
1:0G:76:ALA:O	1:0G:80:VAL:HG23	2.18	0.43
1:0N:256:ILE:HG23	1:0N:271:SER:HB2	1.99	0.43
1:0N:380:LEU:HD22	1:0N:404:LEU:HD23	2.00	0.43
1:0T:285:LEU:O	1:0T:289:VAL:HG23	2.17	0.43
1:0V:27:MET:CB	1:0V:37:LEU:HD21	2.47	0.43
1:0X:354:SER:HB2	1:0X:399:LYS:HG3	1.98	0.43
1:0Z:31:PRO:HA	1:0Z:34:ILE:HD12	1.99	0.43
1:0Z:85:LEU:HB3	1:0Z:86:PRO:HD3	2.00	0.43
1:1B:253:PHE:CE1	1:1B:275:VAL:HG22	2.53	0.43
2:1D:124:ASN:CA	2:1D:168:ASN:HD21	2.30	0.43
2:1D:227:VAL:O	2:1D:232:ALA:HB3	2.18	0.43
2:1D:245:THR:N	2:1D:246:PRO:HD3	2.32	0.43
2:1D:262:SER:O	2:1D:306:LYS:HD2	2.18	0.43
2:1E:46:LEU:HD11	2:1E:53:LEU:HA	2.00	0.43
3:1H:197:SER:HB3	47:6A:289:GLN:CB	2.48	0.43
3:1H:933:THR:HG22	47:6A:371:MET:HE1	2.01	0.43
3:1I:589:ALA:HB2	3:1I:644:ARG:NH2	2.32	0.43
4:1J:207:THR:OG1	4:1J:208:LYS:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1K:207:THR:OG1	4:1K:208:LYS:HG3	2.18	0.43
5:1L:234:GLU:HA	5:1L:317:VAL:O	2.18	0.43
6:1N:1539:LEU:HD21	6:1N:1947:CYS:HB2	2.01	0.43
6:1N:2434:LEU:HB3	6:1N:2487:HIS:CE1	2.53	0.43
7:1O:135:GLY:O	7:1O:136:SER:OG	2.37	0.43
7:1O:186:THR:HG21	8:1P:874:THR:HG22	2.00	0.43
7:1O:1049:ARG:HA	7:1O:1052:SER:OG	2.18	0.43
7:1O:1842:VAL:HG22	7:1O:1875:TRP:CZ2	2.53	0.43
7:1O:3078:PHE:CE2	7:1O:3094:GLY:HA2	2.53	0.43
10:1R:279:PHE:CE1	10:1R:282:GLN:NE2	2.87	0.43
10:1R:387:ASP:O	13:Bb:308:ARG:NH2	2.51	0.43
10:1S:395:VAL:HB	13:Bf:340:THR:OG1	2.18	0.43
13:1d:407:TRP:CE2	12:1e:255:VAL:HA	2.53	0.43
12:1e:11:GLN:HA	12:1e:72:THR:HG21	2.00	0.43
12:1e:417:ASP:O	12:1e:421:GLU:HG2	2.17	0.43
13:1f:21:TRP:HZ3	13:1f:52:PHE:HB3	1.82	0.43
14:2F:10:ASP:OD2	14:2F:13:LYS:HG3	2.18	0.43
14:2F:113:VAL:HG21	13:Bb:245:ASP:OD2	2.18	0.43
14:2G:42:ASN:HD22	13:Df:1:MET:N	2.17	0.43
14:2G:106:TRP:CZ3	14:2G:109:GLN:O	2.71	0.43
24:2U:154:ASP:HA	24:2U:155:PRO:HD2	1.87	0.43
12:2e:170:VAL:HB	12:2e:203:ASP:OD1	2.18	0.43
30:3G:711:VAL:O	30:3G:715:LEU:HG	2.18	0.43
32:3K:66:LEU:HD21	32:3K:134:ILE:HD13	2.00	0.43
32:3K:180:ILE:HG12	32:3K:194:ALA:O	2.19	0.43
33:3L:123:LEU:HD12	33:3L:134:TYR:OH	2.18	0.43
34:3M:47:ASN:HB3	34:3P:77:GLN:OE1	2.17	0.43
34:3M:90:GLU:O	34:3M:94:THR:HG23	2.18	0.43
34:3N:48:HIS:CD2	34:3N:222:LEU:HA	2.52	0.43
34:3N:109:LEU:HD23	34:3N:110:LEU:HD23	2.00	0.43
34:3O:257:LYS:HG3	34:3O:258:TYR:N	2.33	0.43
34:3O:294:HIS:CE1	34:3O:433:TYR:CD1	3.06	0.43
34:3S:47:ASN:HB3	34:3U:77:GLN:OE1	2.17	0.43
34:3S:64:HIS:O	34:3S:68:LEU:HG	2.18	0.43
34:3T:338:LEU:HD23	34:3T:338:LEU:HA	1.79	0.43
34:3U:78:HIS:O	34:3U:82:ILE:HG13	2.18	0.43
34:3V:71:LEU:O	34:3V:75:GLN:HG3	2.18	0.43
34:3V:485:TYR:CE1	34:3X:251:LEU:HD21	2.53	0.43
34:3X:89:ILE:HG13	34:3X:404:HIS:CD2	2.52	0.43
34:3Y:267:GLU:H	34:3Y:270:ILE:CD1	2.28	0.43
34:3Y:486:ARG:HD3	37:4G:1795:ARG:HH22	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3a:23:VAL:HA	12:3a:26:ASP:OD2	2.17	0.43
13:3b:246:GLY:N	13:3b:249:ASN:OD1	2.43	0.43
13:3b:273:ALA:N	13:3b:375:VAL:O	2.48	0.43
13:3f:68:LEU:HD12	13:3f:93:ILE:HB	1.99	0.43
12:3g:67:ASP:O	12:3g:92:PHE:HA	2.18	0.43
35:4C:455:TRP:HH2	35:4C:472:SER:HB3	1.79	0.43
35:4C:782:GLU:OE2	35:4C:783:GLY:N	2.52	0.43
36:4D:24:GLN:HA	36:4D:99:GLU:OE2	2.17	0.43
37:4E:960:LEU:HD21	38:4O:45:ALA:O	2.18	0.43
37:4E:963:LEU:HD12	37:4E:967:SER:OG	2.17	0.43
37:4E:1167:ASP:CG	37:4E:1168:ALA:H	2.26	0.43
37:4F:693:LEU:HD23	37:4F:693:LEU:HA	1.83	0.43
37:4F:972:PHE:HE2	37:4F:974:VAL:CG2	2.31	0.43
37:4F:1083:ILE:HA	38:4N:35:ALA:HA	1.99	0.43
37:4F:1138:VAL:CG2	38:4N:33:LYS:HG3	2.45	0.43
37:4F:1143:LEU:HD23	37:4F:1158:PRO:CD	2.48	0.43
37:4F:1333:VAL:O	38:4N:31:ALA:N	2.51	0.43
37:4F:1356:VAL:HG22	37:4F:1372:PRO:HD3	2.00	0.43
37:4F:1379:ALA:HA	37:4F:1384:ALA:HA	2.00	0.43
37:4F:1715:GLY:HA3	37:4F:1754:TYR:HB2	1.99	0.43
37:4G:670:GLY:O	37:4G:671:LEU:HD23	2.17	0.43
37:4G:693:LEU:HD23	37:4G:693:LEU:HA	1.59	0.43
37:4G:1082:LEU:HD23	38:4L:39:HIS:HB3	2.01	0.43
37:4G:1085:MET:HB3	37:4G:1367:VAL:HG11	2.00	0.43
37:4G:1136:ARG:HD3	38:4L:33:LYS:NZ	2.33	0.43
37:4G:1790:THR:O	37:4G:1794:ILE:HG13	2.18	0.43
37:4H:859:GLU:HG2	37:4H:860:LEU:N	2.32	0.43
37:4H:1334:GLU:HB3	37:4H:1340:PRO:CB	2.48	0.43
38:4J:53:LEU:HD11	38:4M:72:ARG:NH2	2.33	0.43
38:4L:40:LYS:HZ2	38:4L:44:LEU:HB2	1.79	0.43
39:4S:135:GLU:HA	39:4S:138:LEU:CD2	2.48	0.43
40:4T:50:LEU:HA	40:4T:53:VAL:HG22	2.00	0.43
12:4a:210:ILE:HG22	12:4a:297:LYS:O	2.17	0.43
12:4e:210:ILE:HG22	12:4e:297:LYS:O	2.17	0.43
12:4g:232:VAL:HG22	12:4g:270:PHE:HB2	1.99	0.43
42:5H:82:LEU:HA	42:5H:85:CYS:SG	2.58	0.43
43:5I:16:GLU:C	43:5I:18:ILE:N	2.75	0.43
43:5I:143:MET:SD	43:5I:147:THR:HG21	2.59	0.43
12:5a:127:CYS:SG	12:5a:128:ASP:N	2.91	0.43
13:5b:398:MET:SD	12:5c:346:PRO:HD2	2.57	0.43
12:5c:104:GLY:O	12:5c:147:MET:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:17:VAL:HG21	47:6A:21:LEU:HD23	2.00	0.43
47:6A:853:HIS:CD2	47:6A:855:GLU:H	2.37	0.43
47:6A:1185:SER:HB2	47:6A:1287:GLN:HE21	1.83	0.43
47:6A:1323:GLU:N	47:6A:1323:GLU:OE2	2.51	0.43
47:6B:290:GLY:CA	3:6D:197:SER:N	2.81	0.43
47:6B:403:ARG:HA	3:6D:995:PHE:CE1	2.52	0.43
47:6B:626:ALA:HB1	47:6B:691:GLY:HA3	2.00	0.43
47:6B:853:HIS:CD2	47:6B:855:GLU:H	2.37	0.43
47:6B:1014:GLU:HA	47:6B:1017:LYS:CG	2.47	0.43
47:6B:1562:THR:HG21	47:6B:1750:VAL:HG13	2.00	0.43
3:6D:140:ALA:HB2	3:6D:164:TYR:HA	2.00	0.43
3:6D:1010:LEU:HG	48:6E:353:ILE:HG23	2.01	0.43
48:6F:104:GLU:CG	48:6F:105:LEU:H	2.31	0.43
48:6F:518:THR:HG23	48:6F:521:ALA:H	1.83	0.43
48:6F:800:LEU:HA	49:6J:17:GLU:OE2	2.18	0.43
49:6G:17:GLU:OE1	49:6G:17:GLU:HA	2.16	0.43
49:6G:46:GLU:CD	49:6G:46:GLU:H	2.15	0.43
49:6G:340:PHE:HB2	49:6G:348:CYS:SG	2.58	0.43
49:6H:30:GLU:CD	49:6J:44:PRO:HG2	2.43	0.43
49:6H:69:TYR:CD1	49:6H:74:MET:HG2	2.53	0.43
49:6H:340:PHE:HB2	49:6H:348:CYS:SG	2.58	0.43
49:6H:352:THR:OG1	49:6H:380:ALA:O	2.32	0.43
49:6I:95:ASP:HA	49:6I:108:LYS:NZ	2.33	0.43
49:6I:393:THR:HG23	49:6I:396:GLU:HB2	2.00	0.43
49:6J:14:LYS:HB3	49:6J:14:LYS:HE3	1.58	0.43
49:6J:64:VAL:HG12	49:6J:110:VAL:CG1	2.47	0.43
50:6K:234:LEU:HD21	50:6K:318:LYS:HE3	1.99	0.43
50:6K:237:GLU:HG3	50:6K:238:ASP:OD1	2.17	0.43
50:6K:486:ILE:HG12	50:6K:492:LEU:HD22	1.99	0.43
50:6L:446:ILE:HD11	50:6L:465:PHE:CE2	2.53	0.43
51:6M:1290:TYR:HA	51:6M:1295:LYS:HE3	1.99	0.43
51:6M:1362:ARG:HD3	51:6M:1371:VAL:HG22	1.98	0.43
51:6M:2038:GLN:HE21	51:6M:2116:SER:HB2	1.83	0.43
51:6N:1362:ARG:HD3	51:6N:1371:VAL:HG22	1.98	0.43
12:6c:5:VAL:HG23	12:6c:130:LEU:HD11	2.00	0.43
12:6e:33:THR:HG23	12:6e:35:THR:HG22	2.00	0.43
12:6g:67:ASP:O	12:6g:92:PHE:HA	2.18	0.43
12:7a:86:ARG:HA	12:8a:281:TYR:CD1	2.53	0.43
13:7b:273:ALA:N	13:7b:375:VAL:O	2.48	0.43
12:7c:73:MET:HE2	12:7c:90:PHE:HD2	1.83	0.43
12:7e:86:ARG:HD3	12:7e:86:ARG:HA	1.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8a:114:ASP:N	12:8a:114:ASP:OD2	2.50	0.43
12:8a:328:GLU:O	12:8a:331:LEU:HG	2.19	0.43
12:8e:21:TRP:CZ2	12:8e:63:ALA:HB2	2.53	0.43
12:8e:151:LEU:O	12:8e:155:ILE:HG12	2.18	0.43
12:8e:174:LYS:HD2	12:8e:175:VAL:HB	1.99	0.43
12:8g:64:ILE:HD13	12:8g:120:VAL:HG22	1.99	0.43
13:9d:301:MET:HE1	13:9d:377:MET:HE1	2.00	0.43
12:9e:263:LEU:HD21	12:9e:421:GLU:HG2	2.00	0.43
13:9h:248:LEU:HD23	13:9h:248:LEU:HA	1.79	0.43
13:9h:301:MET:HE1	13:9h:377:MET:HE1	2.01	0.43
12:Aa:3:GLU:HB3	12:Aa:62:ARG:HH21	1.83	0.43
13:Ab:301:MET:HE1	13:Ab:377:MET:HE1	2.00	0.43
12:Ae:21:TRP:CZ2	12:Ae:63:ALA:HB2	2.53	0.43
12:Ae:396:HIS:CD2	13:Af:261:PRO:O	2.71	0.43
12:Ag:88:ASP:OD1	12:Ag:88:ASP:N	2.50	0.43
12:Ag:317:PHE:HB3	12:Ag:321:MET:CE	2.46	0.43
12:Ag:378:PHE:HD1	12:Ag:415:MET:HE3	1.83	0.43
12:Ba:177:ASP:O	13:Bb:352:LYS:HA	2.17	0.43
13:Bb:301:MET:HE1	13:Bb:377:MET:HE1	2.00	0.43
12:Be:286:VAL:O	12:Be:290:THR:HG23	2.18	0.43
13:Bf:301:MET:HE1	13:Bf:377:MET:HE1	2.01	0.43
12:Bg:68:LEU:HD21	12:Bg:147:MET:SD	2.58	0.43
12:Bg:337:ASN:HB3	12:Bg:340:TYR:HD2	1.83	0.43
13:Cd:90:GLU:OE1	13:Cd:121:ARG:NE	2.44	0.43
12:De:286:VAL:O	12:De:290:THR:HG23	2.18	0.43
1:0W:193:ASP:O	1:0W:197:HIS:CD2	2.71	0.43
1:0I:240:SER:HB3	1:0I:243:LEU:HG	2.01	0.43
1:0A:108:ARG:CD	1:0A:147:TRP:HB3	2.41	0.43
1:0D:30:ASN:O	1:0D:34:ILE:HG13	2.17	0.43
1:0D:338:PRO:HB2	1:0D:339:PRO:HD3	1.99	0.43
1:0E:7:LEU:O	1:0E:11:GLU:HG3	2.18	0.43
1:0E:42:ALA:O	1:0E:45:LEU:N	2.48	0.43
1:0F:138:ASP:O	1:0F:142:LYS:HE2	2.18	0.43
1:0F:302:ILE:HA	1:0F:310:ARG:HB2	2.00	0.43
1:0F:318:GLY:HA3	1:0F:359:THR:HG22	1.99	0.43
1:0G:254:PRO:O	1:0G:258:THR:HG23	2.18	0.43
1:0G:270:HIS:O	1:0G:274:VAL:HG23	2.17	0.43
1:0G:336:ALA:O	1:0G:340:LEU:HG	2.18	0.43
1:0M:213:TYR:O	1:0M:216:PRO:HD2	2.18	0.43
1:0N:350:ASP:HA	1:0N:353:LYS:CG	2.40	0.43
1:0P:257:LEU:O	1:0P:260:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Q:182:SER:HA	1:0Q:185:ARG:NE	2.32	0.43
1:0V:45:LEU:C	1:0V:48:PRO:HD2	2.42	0.43
1:0V:338:PRO:HB2	1:0V:339:PRO:HD3	2.00	0.43
1:0X:28:ALA:O	1:0X:34:ILE:HD11	2.18	0.43
1:0X:371:ALA:HB1	1:0X:407:VAL:HA	2.00	0.43
1:0Y:260:LEU:HD22	1:0Y:297:ALA:HB1	2.00	0.43
1:1B:127:LEU:HD13	1:1B:163:VAL:HA	1.98	0.43
3:1H:922:ALA:HA	4:1J:251:GLN:HG2	2.00	0.43
4:1K:89:PRO:HA	4:1K:111:LEU:HD23	2.00	0.43
4:1K:248:GLU:OE2	3:6D:926:MET:HA	2.18	0.43
6:1N:608:ARG:O	6:1N:612:VAL:HG22	2.18	0.43
7:1O:171:LEU:O	7:1O:175:VAL:HG23	2.18	0.43
7:1O:1738:GLN:HB3	7:1O:1849:ARG:CD	2.48	0.43
7:1O:2186:ARG:HA	7:1O:2229:PRO:HG3	2.00	0.43
10:1R:40:HIS:ND1	10:1R:135:THR:HG21	2.34	0.43
10:1R:282:GLN:OE1	32:3J:227:ALA:HA	2.19	0.43
12:1a:102:ALA:HB1	12:1a:401:GLU:HB3	2.00	0.43
12:1a:326:VAL:O	12:1a:330:MET:HG2	2.18	0.43
12:1a:417:ASP:O	12:1a:421:GLU:HG2	2.17	0.43
12:1g:193:VAL:HG13	12:1g:262:ARG:HB2	1.99	0.43
14:2F:105:ALA:O	12:Ca:277:GLY:CA	2.66	0.43
14:2G:113:VAL:N	12:Be:74:ASP:OD2	2.34	0.43
12:2e:139:LEU:O	12:2e:171:PRO:HD3	2.18	0.43
30:3F:315:LEU:HD21	13:6f:156:ARG:CZ	2.49	0.43
32:3J:116:TYR:CZ	32:3J:173:PRO:HD2	2.53	0.43
32:3J:155:ARG:NH1	12:Aa:383:GLU:HG2	2.33	0.43
32:3K:27:ASN:HB3	32:3K:30:THR:CG2	2.43	0.43
33:3L:28:LEU:CG	33:3L:47:LEU:HD11	2.48	0.43
33:3L:190:LYS:HA	12:7e:423:GLN:HE21	1.82	0.43
34:3M:305:CYS:HB2	34:3M:426:LEU:HD23	2.00	0.43
34:3M:433:TYR:CD1	34:3M:438:ILE:HD11	2.53	0.43
34:3N:56:TYR:CG	34:3N:295:GLN:HG3	2.53	0.43
34:3N:204:MET:HE3	34:3Q:288:MET:HB3	2.01	0.43
34:3S:71:LEU:HB3	34:3S:419:LEU:HD21	2.00	0.43
34:3V:270:ILE:HG21	34:3V:270:ILE:HD13	1.78	0.43
34:3V:386:HIS:NE2	34:3V:390:LEU:HD21	2.33	0.43
34:3V:446:GLN:O	34:3V:449:GLU:HG2	2.18	0.43
34:3W:495:GLN:NE2	34:4B:109:LEU:HD11	2.33	0.43
34:3Z:352:LEU:HD22	34:3Z:356:PHE:HE2	1.83	0.43
13:3b:210:TYR:CD1	12:3c:324:LYS:HB2	2.53	0.43
12:3c:193:VAL:HG13	12:3c:262:ARG:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3d:68:LEU:HD12	13:3d:93:ILE:HB	1.99	0.43
12:3e:113:ILE:HD11	12:3e:154:LYS:HG3	1.99	0.43
35:4C:395:LEU:O	35:4C:396:THR:OG1	2.36	0.43
35:4C:544:VAL:HG11	35:4C:735:LEU:HD22	1.99	0.43
35:4C:849:ILE:O	35:4C:849:ILE:HG13	2.17	0.43
37:4E:586:PHE:HZ	43:5L:73:SER:HA	1.83	0.43
37:4F:860:LEU:HD12	37:4F:860:LEU:N	2.34	0.43
37:4F:969:LEU:CD2	37:4F:1377:VAL:HG21	2.48	0.43
37:4F:1094:ALA:CB	38:4N:36:VAL:CG2	2.77	0.43
37:4F:1288:THR:HA	37:4F:1295:ARG:HG2	1.99	0.43
37:4G:1136:ARG:HB2	38:4L:33:LYS:CD	2.48	0.43
37:4G:1334:GLU:C	38:4L:28:VAL:CG2	2.91	0.43
37:4H:788:LEU:CD1	37:4H:1627:ILE:HD11	2.48	0.43
37:4H:971:ALA:HA	37:4H:1072:ALA:O	2.18	0.43
37:4H:1171:GLY:HA2	37:4H:1273:PRO:HG2	2.00	0.43
38:4J:32:GLU:CG	38:4J:33:LYS:HZ2	2.31	0.43
38:4J:57:VAL:O	38:4J:58:VAL:C	2.60	0.43
38:4J:84:LEU:HB3	38:4M:77:VAL:HG22	1.94	0.43
38:4L:32:GLU:OE1	38:4L:32:GLU:HA	2.18	0.43
39:4Q:132:ILE:HG22	39:4Q:136:LEU:HD11	2.00	0.43
39:4R:132:ILE:HG22	39:4R:136:LEU:HD11	2.00	0.43
39:4S:37:ILE:HD11	44:5U:112:VAL:CG1	2.48	0.43
39:4S:63:ILE:HG12	44:5R:93:PHE:CE1	2.53	0.43
39:4S:132:ILE:HG22	39:4S:136:LEU:HD11	2.00	0.43
40:4T:302:CYS:SG	40:4T:364:LEU:HB2	2.58	0.43
40:4U:382:ARG:HA	40:4U:385:THR:HG22	2.00	0.43
40:4U:455:THR:C	40:4U:457:THR:H	2.27	0.43
40:4U:601:ALA:O	40:4U:605:PHE:HD1	2.01	0.43
40:4V:50:LEU:HA	40:4V:53:VAL:HG22	2.00	0.43
12:4a:113:ILE:HD13	12:4a:150:LEU:HG	2.01	0.43
12:4a:330:MET:SD	12:4a:349:VAL:HG11	2.57	0.43
12:4e:282:ARG:HE	12:4e:282:ARG:HB3	1.63	0.43
12:4g:3:GLU:OE1	12:4g:3:GLU:N	2.51	0.43
13:4h:68:LEU:HD12	13:4h:93:ILE:HB	1.99	0.43
42:5H:143:VAL:CG2	43:5L:146:TYR:N	2.82	0.43
42:5H:152:GLU:O	42:5H:154:THR:HG23	2.17	0.43
43:5J:4:ASN:HB3	43:5J:116:VAL:HG22	1.99	0.43
43:5J:10:LEU:HA	43:5J:10:LEU:HD23	1.55	0.43
43:5K:10:LEU:HA	43:5K:10:LEU:HD23	1.55	0.43
13:5b:301:MET:HE1	13:5b:377:MET:HE1	2.00	0.43
12:5e:406:MET:HE3	12:5e:406:MET:HB3	1.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5h:206:ASN:OD1	54:5h:501:GTP:N2	2.49	0.43
13:5h:301:MET:HE1	13:5h:377:MET:HE1	2.00	0.43
47:6A:277:PHE:CD2	47:6A:277:PHE:C	2.96	0.43
47:6A:343:SER:O	47:6A:347:ARG:HG3	2.17	0.43
47:6A:626:ALA:HB1	47:6A:691:GLY:HA3	2.00	0.43
47:6A:853:HIS:HD2	47:6A:856:PHE:H	1.67	0.43
47:6A:1453:ALA:O	47:6A:1456:GLN:HG2	2.18	0.43
47:6B:1592:LEU:HD22	47:6B:1596:TRP:HZ2	1.82	0.43
3:6D:891:GLY:HA2	3:6D:913:THR:HG23	1.99	0.43
48:6E:259:VAL:HG11	48:6E:264:LEU:HD11	1.99	0.43
48:6E:607:HIS:CD2	48:6E:609:TRP:HE3	2.24	0.43
48:6E:696:ILE:HD13	48:6E:702:LEU:HA	2.00	0.43
48:6E:947:VAL:HG12	48:6E:949:LEU:HD22	2.00	0.43
48:6F:863:CYS:SG	48:6F:886:VAL:HG22	2.58	0.43
49:6G:264:GLU:HA	49:6G:267:ASN:HD22	1.83	0.43
49:6H:113:ILE:HA	49:6H:117:ILE:HB	2.00	0.43
49:6H:113:ILE:HG12	49:6H:117:ILE:HD12	2.01	0.43
49:6I:64:VAL:HG12	49:6I:110:VAL:CG1	2.47	0.43
49:6I:358:GLN:NE2	49:6I:436:GLN:HE22	2.02	0.43
49:6J:95:ASP:HA	49:6J:108:LYS:NZ	2.33	0.43
49:6J:264:GLU:HA	49:6J:267:ASN:HD22	1.83	0.43
49:6J:352:THR:OG1	49:6J:380:ALA:O	2.32	0.43
50:6L:18:CYS:HB2	50:6L:376:ALA:HB2	1.99	0.43
50:6L:548:LEU:HA	50:6L:602:LEU:HD13	1.99	0.43
50:6L:603:LYS:HA	50:6L:606:GLU:OE2	2.18	0.43
51:6M:1664:MET:HE3	51:6M:1664:MET:HB3	1.73	0.43
51:6N:1290:TYR:HA	51:6N:1295:LYS:CE	2.48	0.43
51:6N:1475:GLU:CG	51:6N:1478:TYR:HE1	2.31	0.43
51:6N:1556:LEU:HD21	51:6N:1987:PHE:CD1	2.52	0.43
12:6a:112:LEU:HD11	12:6a:147:MET:HE2	1.99	0.43
12:6a:113:ILE:HD13	12:6a:150:LEU:HG	2.00	0.43
12:6c:239:CYS:SG	12:6c:316:LEU:HD23	2.58	0.43
12:6e:154:LYS:O	12:6e:158:GLU:HG2	2.18	0.43
12:6e:278:SER:CA	12:6e:281:TYR:HB2	2.49	0.43
12:6e:320:ARG:HE	12:6e:320:ARG:HB3	1.55	0.43
12:6g:145:SER:HB2	12:6g:188:SER:OG	2.17	0.43
13:6h:192:HIS:CE1	1:0K:4:ARG:HD3	2.53	0.43
12:7a:172:SER:HB2	12:7a:205:GLU:CD	2.43	0.43
12:7c:193:VAL:HG13	12:7c:262:ARG:HB2	2.00	0.43
12:7c:229:ILE:O	12:7c:233:MET:HG3	2.18	0.43
12:8a:86:ARG:HH21	12:9a:281:TYR:C	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8a:222:PHE:CE2	13:8b:248:LEU:HG	2.53	0.43
12:8e:16:ILE:HD11	12:8e:229:ILE:CG2	2.46	0.43
12:8e:172:SER:HB2	12:8e:205:GLU:CG	2.48	0.43
13:8f:301:MET:HE1	13:8f:377:MET:HE1	2.01	0.43
13:9b:175:PRO:O	13:9b:394:LYS:NZ	2.46	0.43
13:9d:246:GLY:N	13:9d:249:ASN:OD1	2.43	0.43
12:9e:68:LEU:HD11	12:9e:108:GLU:HB3	1.99	0.43
12:9g:99:ASN:HA	12:9g:142:GLY:H	1.83	0.43
13:Ad:224:TYR:HD2	12:Ae:245:GLN:HG2	1.83	0.43
13:Af:222:PRO:HD2	12:Ag:324:LYS:HD2	2.00	0.43
12:Ba:60:VAL:CG1	12:Ca:281:TYR:HB3	2.48	0.43
12:Ba:84:ILE:CA	12:Ca:281:TYR:OH	2.66	0.43
12:Ba:391:ARG:HG3	13:Bb:346:TRP:CB	2.48	0.43
12:Be:21:TRP:CZ2	12:Be:63:ALA:HB2	2.53	0.43
12:Bg:378:PHE:HD1	12:Bg:415:MET:HE3	1.83	0.43
12:Ca:60:VAL:HG11	12:Ca:86:ARG:HB3	2.00	0.43
12:Ca:106:TYR:HE1	12:Ca:403:MET:HE1	1.83	0.43
12:Cc:107:THR:CG2	12:Cc:401:GLU:HB3	2.47	0.43
12:Da:48:ASN:O	12:Da:62:ARG:NH2	2.44	0.43
13:Db:21:TRP:HZ3	13:Db:52:PHE:HB3	1.82	0.43
12:De:21:TRP:CD1	12:De:85:PHE:HE1	2.36	0.43
13:Dh:90:GLU:OE1	13:Dh:121:ARG:NE	2.44	0.43
1:0W:175:CYS:HB3	1:0W:183:LEU:HD21	1.99	0.43
1:0I:83:GLU:O	1:0I:86:PRO:HD2	2.18	0.43
1:0A:137:PHE:HE2	4:1J:72:PHE:CD1	2.36	0.43
1:0C:86:PRO:HA	1:0C:89:VAL:HG12	1.99	0.43
1:0C:380:LEU:HD22	1:0C:404:LEU:HD23	1.99	0.43
1:0D:85:LEU:HD23	1:0D:88:LEU:HD12	2.00	0.43
1:0E:14:GLN:HA	1:0E:17:ARG:HE	1.83	0.43
1:0F:261:LYS:CD	39:4Q:136:LEU:O	2.67	0.43
1:0F:409:ALA:O	44:5M:27:GLY:HA3	2.18	0.43
1:0G:87:GLN:HA	1:0G:90:TYR:CD2	2.51	0.43
1:0G:198:THR:HG22	1:0G:200:GLU:N	2.34	0.43
1:0M:127:LEU:HD11	1:0M:149:LEU:CD2	2.48	0.43
1:0N:231:CYS:O	1:0N:235:GLN:HG2	2.18	0.43
1:0O:133:CYS:HB2	1:0O:145:SER:HB3	2.00	0.43
1:0O:307:GLY:HA2	1:0O:310:ARG:HD3	2.01	0.43
1:0P:218:VAL:HG22	1:0P:229:VAL:CG2	2.49	0.43
1:0R:323:PHE:CZ	47:6B:277:PHE:HE1	2.36	0.43
1:0R:392:SER:O	1:0R:396:LEU:HB3	2.18	0.43
1:0S:252:ILE:HG22	1:0S:256:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0T:283:PRO:HG3	1:0T:323:PHE:CD1	2.53	0.43
1:0U:72:SER:HB3	1:0U:75:LEU:HG	1.99	0.43
1:0Y:307:GLY:HA2	1:0Y:310:ARG:HD3	2.00	0.43
1:0Y:347:GLU:HB3	1:0Y:349:GLU:HG2	2.01	0.43
1:0Z:39:GLN:HB3	5:1L:607:ARG:CZ	2.49	0.43
1:0Z:382:THR:O	1:0Z:386:LEU:HG	2.19	0.43
1:1A:85:LEU:HD23	1:1A:88:LEU:HD12	1.99	0.43
1:1A:224:LYS:HD3	1:1A:227:ARG:HH21	1.83	0.43
1:1C:375:ALA:HA	1:1C:380:LEU:HD23	2.01	0.43
2:1D:117:SER:HA	2:1D:120:GLN:NE2	2.33	0.43
2:1D:364:GLY:O	2:1D:368:VAL:HG23	2.18	0.43
2:1G:5:THR:HG22	2:1G:9:THR:HG23	1.99	0.43
2:1G:41:GLY:HA2	2:1G:44:GLU:HG2	2.01	0.43
3:1H:512:LEU:HD22	3:1H:569:VAL:HG22	1.99	0.43
3:1H:984:GLN:HB3	47:6A:395:VAL:HG21	2.00	0.43
3:1I:783:LEU:HD23	3:1I:783:LEU:HA	1.68	0.43
5:1L:563:GLN:HB3	5:1L:564:ARG:HH11	1.84	0.43
5:1M:563:GLN:HB3	5:1M:564:ARG:HH11	1.84	0.43
6:1N:658:HIS:CE1	6:1N:727:ASN:HB3	2.54	0.43
6:1N:1137:ASN:O	6:1N:1141:VAL:HG23	2.19	0.43
6:1N:1360:ARG:O	6:1N:1364:LEU:HG	2.18	0.43
6:1N:1886:ARG:HA	6:1N:1886:ARG:NE	2.34	0.43
6:1N:2243:VAL:O	6:1N:2247:LEU:HD23	2.18	0.43
7:1O:276:ARG:O	7:1O:280:VAL:HG13	2.19	0.43
7:1O:788:GLN:NE2	7:1O:838:PRO:HA	2.33	0.43
7:1O:921:THR:O	7:1O:985:GLN:HA	2.19	0.43
7:1O:1130:VAL:HG21	7:1O:1823:PHE:CD2	2.53	0.43
7:1O:2491:VAL:HG11	7:1O:2507:LEU:HG	1.99	0.43
9:1Q:381:VAL:HG12	9:1Q:855:ARG:HH11	1.83	0.43
9:1Q:847:ASP:O	9:1Q:848:LYS:C	2.60	0.43
10:1R:443:TYR:OH	12:Ba:26:ASP:HB2	2.18	0.43
12:1g:248:ALA:CB	12:1g:252:LYS:HD2	2.48	0.43
20:2N:31:UNK:HA	13:5f:57:GLY:H	1.83	0.43
22:2P:27:UNK:O	22:2P:28:UNK:C	2.65	0.43
12:2a:151:LEU:O	12:2a:155:ILE:HG12	2.18	0.43
12:2e:68:LEU:HD23	12:2e:143:THR:HG23	2.00	0.43
29:3E:1166:TRP:NE1	12:5e:420:SER:OG	2.49	0.43
30:3F:271:LYS:HB3	12:6e:424:GLN:OE1	2.18	0.43
34:3N:254:MET:HA	34:3N:257:LYS:HG2	2.00	0.43
34:3N:500:TYR:CZ	34:3N:504:LEU:HD21	2.52	0.43
34:3O:38:HIS:NE2	34:3O:456:LEU:HD22	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3O:39:GLU:OE1	34:3O:46:ARG:NH2	2.51	0.43
34:3O:270:ILE:O	34:3O:274:ILE:HG12	2.17	0.43
34:3P:78:HIS:O	34:3P:82:ILE:HG13	2.18	0.43
34:3P:121:LEU:HD12	34:3P:122:GLN:N	2.32	0.43
34:3Q:38:HIS:NE2	34:3Q:456:LEU:HD13	2.34	0.43
34:3R:107:TYR:HE2	34:3R:383:ARG:HA	1.84	0.43
34:3U:107:TYR:CE1	34:3U:349:LEU:HD11	2.53	0.43
34:3V:196:LEU:HD23	34:3Z:48:HIS:HB3	1.99	0.43
34:3V:252:GLU:OE2	34:3X:492:LEU:HD21	2.19	0.43
34:3X:280:TRP:HB2	34:3X:452:HIS:HD2	1.79	0.43
34:3Z:38:HIS:NE2	34:3Z:452:HIS:HE1	2.16	0.43
13:3f:246:GLY:N	13:3f:249:ASN:OD1	2.43	0.43
35:4C:538:PHE:HD1	37:4E:1728:GLU:O	2.01	0.43
37:4E:582:GLN:O	43:5L:38:GLY:N	2.51	0.43
37:4F:1321:THR:HA	38:4N:29:LYS:HZ3	1.50	0.43
37:4F:1321:THR:HG22	37:4F:1322:ARG:H	1.59	0.43
37:4F:1366:VAL:HG21	37:4F:1396:LEU:HB3	2.00	0.43
37:4G:519:LEU:HD11	37:4G:532:VAL:HG12	2.00	0.43
37:4G:933:ARG:NE	38:4I:71:GLU:CG	2.78	0.43
37:4G:934:TRP:HE3	37:4G:959:LEU:HB2	1.83	0.43
37:4G:1077:THR:OG1	37:4G:1081:HIS:HB2	2.19	0.43
37:4G:1319:ASP:OD2	38:4L:29:LYS:HE2	2.18	0.43
37:4G:1338:PHE:N	37:4G:1338:PHE:HD2	2.15	0.43
37:4G:1348:LEU:HD13	37:4G:1360:TRP:CZ3	2.54	0.43
37:4G:1367:VAL:O	37:4G:1378:LEU:O	2.36	0.43
37:4H:1296:VAL:HG21	37:4H:1759:MET:SD	2.57	0.43
37:4H:1334:GLU:OE1	37:4H:1334:GLU:N	2.51	0.43
37:4H:1525:LEU:HD13	37:4H:1613:TYR:CD2	2.52	0.43
37:4H:1532:LEU:HD13	37:4H:1606:PRO:HA	2.00	0.43
37:4H:1630:ASP:OD2	37:4H:1631:GLY:N	2.51	0.43
38:4M:48:PRO:CD	38:4M:49:ILE:HD12	2.46	0.43
38:4N:38:VAL:O	38:4N:38:VAL:CG1	2.62	0.43
39:4S:4:LEU:HD22	43:5K:137:ARG:HD3	1.99	0.43
39:4S:137:ASN:O	39:4S:141:GLU:HG2	2.19	0.43
40:4V:53:VAL:CG2	40:4V:421:ALA:HA	2.48	0.43
40:4V:205:THR:OG1	40:4V:257:VAL:HG13	2.18	0.43
40:4V:487:LEU:HG	40:4V:522:LEU:CD1	2.48	0.43
13:4b:179:THR:O	12:4c:350:LYS:HD2	2.17	0.43
12:4c:68:LEU:HB3	12:4c:96:GLY:HA2	2.00	0.43
41:5C:146:LEU:HA	41:5C:160:GLN:HA	2.00	0.43
42:5F:157:LEU:HG	43:5J:154:ALA:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5K:163:VAL:O	43:5K:165:LEU:HB3	2.18	0.43
12:5a:172:SER:HB3	12:5a:205:GLU:CG	2.49	0.43
12:5a:208:TYR:HH	12:5a:222:PHE:HE1	1.66	0.43
12:5c:173:PRO:HA	12:5c:380:ARG:HD2	1.99	0.43
12:5e:21:TRP:CD1	12:5e:85:PHE:HE1	2.36	0.43
47:6A:629:ALA:O	47:6A:632:MET:HG3	2.17	0.43
47:6A:1014:GLU:HA	47:6A:1017:LYS:CG	2.47	0.43
47:6A:1520:ASP:OD1	47:6A:1520:ASP:N	2.51	0.43
47:6A:1592:LEU:HD22	47:6A:1596:TRP:HZ2	1.82	0.43
3:6D:832:LEU:HD13	3:6D:835:LEU:HD12	2.00	0.43
3:6D:1008:ALA:HA	3:6D:1011:GLU:CD	2.42	0.43
48:6E:518:THR:HG23	48:6E:521:ALA:H	1.83	0.43
48:6F:132:LEU:HD23	48:6F:132:LEU:HA	1.83	0.43
48:6F:760:SER:HA	48:6F:765:SER:HA	2.00	0.43
49:6H:194:ILE:HD12	49:6H:234:LEU:CD2	2.48	0.43
49:6H:315:LYS:HD2	49:6H:319:GLN:CD	2.43	0.43
49:6J:393:THR:HG23	49:6J:396:GLU:HB2	2.00	0.43
50:6K:297:VAL:HG12	50:6K:299:PHE:HD2	1.83	0.43
50:6K:446:ILE:HD11	50:6K:465:PHE:CE2	2.53	0.43
50:6K:548:LEU:HA	50:6K:602:LEU:HD13	1.99	0.43
50:6L:105:ILE:HD11	50:6L:121:ILE:HD11	1.99	0.43
51:6N:1299:ASP:OD2	51:6N:1299:ASP:N	2.50	0.43
51:6N:2368:TYR:O	51:6N:2372:VAL:HG23	2.17	0.43
12:6a:3:GLU:HB3	12:6a:62:ARG:HH21	1.83	0.43
12:6a:73:MET:CE	12:6a:92:PHE:HB3	2.48	0.43
12:6a:350:LYS:NZ	12:6a:352:SER:HB3	2.33	0.43
12:6c:68:LEU:HD21	12:6c:147:MET:SD	2.58	0.43
12:6c:172:SER:HB2	12:6c:205:GLU:HB2	2.01	0.43
12:7a:151:LEU:O	12:7a:155:ILE:HG12	2.18	0.43
12:7e:48:ASN:O	12:7e:62:ARG:NH2	2.44	0.43
12:7e:415:MET:O	12:7e:419:VAL:HG23	2.19	0.43
13:7h:317:LEU:HB3	13:7h:319:TYR:CE1	2.53	0.43
12:8e:277:GLY:O	12:8e:281:TYR:CD2	2.72	0.43
12:9a:19:LYS:O	12:9a:23:VAL:HG23	2.18	0.43
12:9a:163:MET:HE1	12:9a:254:ALA:HB2	2.00	0.43
12:9c:229:ILE:O	12:9c:233:MET:HG3	2.19	0.43
12:9e:84:ILE:O	12:Ae:281:TYR:CE1	2.71	0.43
12:9e:172:SER:HB2	12:9e:205:GLU:CG	2.48	0.43
12:9g:229:ILE:O	12:9g:233:MET:HG3	2.19	0.43
13:9h:246:GLY:N	13:9h:249:ASN:OD1	2.43	0.43
12:Aa:287:PRO:HA	12:Aa:290:THR:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ac:391:ARG:NH2	13:Ad:438:GLU:O	2.51	0.43
13:Ad:301:MET:HE1	13:Ad:377:MET:HE1	2.00	0.43
12:Ae:11:GLN:HA	12:Ae:72:THR:HG21	1.99	0.43
12:Ae:139:LEU:O	12:Ae:171:PRO:HD3	2.18	0.43
12:Bc:68:LEU:HD23	12:Bc:143:THR:HB	1.99	0.43
12:Bc:165:LEU:HD11	12:Bc:200:MET:HE2	2.00	0.43
12:Bc:378:PHE:HD1	12:Bc:415:MET:HE3	1.83	0.43
12:Bg:229:ILE:O	12:Bg:233:MET:HG3	2.19	0.43
12:Ce:113:ILE:HD13	12:Ce:150:LEU:HG	2.00	0.43
13:Cf:210:TYR:CD1	12:Cg:324:LYS:HB2	2.52	0.43
13:Ch:246:GLY:N	13:Ch:249:ASN:OD1	2.43	0.43
1:0H:301:TYR:OH	1:0H:309:ASN:O	2.26	0.43
1:0W:87:GLN:HA	1:0W:90:TYR:CD2	2.51	0.43
1:0W:248:VAL:HG21	1:0W:285:LEU:CD2	2.40	0.43
1:0I:252:ILE:O	1:0I:256:ILE:HG13	2.18	0.43
44:5P:103:PHE:CE1	44:5P:141:ASN:HB2	2.53	0.43
1:0B:185:ARG:HD3	1:0B:224:LYS:HB3	1.99	0.43
1:0F:87:GLN:HA	1:0F:90:TYR:CD2	2.53	0.43
1:0L:43:MET:HG3	1:0L:65:LEU:HD11	2.01	0.43
1:0L:269:LYS:O	1:0L:273:THR:HG23	2.19	0.43
1:0N:94:GLU:CD	1:0N:99:TYR:CE2	2.96	0.43
1:0O:44:ALA:O	1:0O:48:PRO:HD3	2.17	0.43
1:0O:318:GLY:HA3	1:0O:359:THR:HG22	2.00	0.43
1:0Q:226:LYS:CD	1:0Q:262:PHE:HE2	2.26	0.43
1:0Q:380:LEU:HD23	1:0Q:380:LEU:HA	1.86	0.43
1:0S:61:ALA:O	1:0S:65:LEU:HD23	2.18	0.43
1:0T:28:ALA:O	1:0T:34:ILE:HD11	2.19	0.43
1:0U:186:ILE:HD13	5:1M:588:ARG:CZ	2.48	0.43
1:0X:320:ILE:HG22	1:0X:327:LEU:HB3	2.01	0.43
1:0Y:290:VAL:HG13	1:0Y:295:VAL:HG21	2.00	0.43
1:0Y:325:GLU:OE1	1:0Y:367:THR:OG1	2.29	0.43
1:0Y:354:SER:HB2	1:0Y:399:LYS:HG3	2.01	0.43
1:0Z:182:SER:O	1:0Z:186:ILE:HG12	2.18	0.43
1:0Z:403:ALA:O	1:0Z:407:VAL:HG23	2.18	0.43
1:1B:231:CYS:O	1:1B:235:GLN:HG2	2.18	0.43
1:1C:301:TYR:HA	1:1C:304:ASP:OD2	2.18	0.43
1:1C:346:GLU:HG3	1:1C:347:GLU:OE1	2.18	0.43
2:1D:82:LEU:HD12	2:1D:118:PRO:HB2	2.00	0.43
2:1E:36:VAL:HG11	2:1E:83:SER:OG	2.19	0.43
2:1E:135:VAL:HG22	2:1E:176:HIS:H	1.84	0.43
2:1F:104:VAL:O	2:1F:107:SER:OG	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1F:306:LYS:HA	2:1F:306:LYS:HD3	1.71	0.43
2:1G:345:GLY:HA2	2:1G:386:LEU:HD13	2.01	0.43
3:1H:793:ASP:OD2	4:1J:241:ALA:N	2.51	0.43
3:1H:813:VAL:HG13	3:1H:853:LEU:HD23	2.00	0.43
4:1J:89:PRO:HA	4:1J:111:LEU:HD23	2.00	0.43
5:1L:518:LEU:CB	13:1b:417:GLU:OE1	2.65	0.43
5:1L:549:MET:SD	13:1b:163:LYS:HE2	2.58	0.43
5:1L:553:ARG:O	5:1L:557:THR:HG23	2.19	0.43
5:1M:386:THR:HA	5:1M:439:PRO:HG2	2.01	0.43
5:1M:553:ARG:O	5:1M:557:THR:HG23	2.19	0.43
6:1N:349:ARG:NE	6:1N:349:ARG:HA	2.34	0.43
6:1N:1363:ARG:HH21	6:1N:1482:THR:CG2	2.32	0.43
7:1O:857:ALA:HB1	7:1O:861:MET:HE3	2.01	0.43
7:1O:1338:TRP:CE3	7:1O:1360:MET:HE1	2.54	0.43
7:1O:3030:ILE:O	7:1O:3078:PHE:HA	2.19	0.43
7:1O:3033:TRP:CZ2	7:1O:3076:LEU:HD12	2.53	0.43
10:1R:256:LYS:HG2	32:3J:86:PRO:N	2.33	0.43
10:1S:42:GLU:H	10:1S:46:ILE:CD1	2.31	0.43
10:1S:388:VAL:HG12	13:Bf:299:ALA:HB2	1.99	0.43
13:1b:301:MET:HE1	13:1b:377:MET:HE1	2.01	0.43
12:1c:67:ASP:O	12:1c:92:PHE:HA	2.18	0.43
13:1d:301:MET:HE1	13:1d:377:MET:HE1	2.00	0.43
12:1g:67:ASP:O	12:1g:92:PHE:HA	2.18	0.43
13:1h:301:MET:HE1	13:1h:377:MET:HE1	2.00	0.43
24:2T:176:LYS:HD2	24:2T:176:LYS:N	2.34	0.43
24:2U:171:LYS:NZ	13:Dd:339:ARG:HG2	2.33	0.43
13:2f:90:GLU:OE1	13:2f:121:ARG:NE	2.44	0.43
30:3F:405:MET:HE3	12:7e:150:LEU:HD13	2.00	0.43
31:3I:148:TYR:CD1	31:3I:172:LEU:HD22	2.53	0.43
31:3I:469:PHE:CD1	31:3I:474:ALA:HB1	2.53	0.43
32:3K:35:TYR:HB3	32:3K:133:LEU:HB2	2.00	0.43
34:3M:499:ALA:O	34:3M:503:ASN:ND2	2.52	0.43
34:3N:114:ALA:HB1	34:3N:375:TYR:HE2	1.82	0.43
34:3O:60:TYR:HH	34:3O:430:GLY:HA2	1.79	0.43
34:3O:66:LYS:HD2	34:3T:215:THR:HG23	1.99	0.43
34:3O:366:VAL:HG13	34:3Y:356:PHE:CD1	2.53	0.43
34:3O:367:GLY:O	34:3O:370:GLU:HG2	2.18	0.43
34:3R:106:ASP:O	34:3R:110:LEU:HG	2.17	0.43
34:3T:114:ALA:HB1	34:3T:375:TYR:CE2	2.52	0.43
34:3V:266:HIS:HA	34:3V:463:HIS:CE1	2.53	0.43
34:3W:43:ARG:HB3	34:3Y:80:LEU:HD11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3W:236:ALA:HB3	34:3Y:339:GLU:HG3	2.00	0.43
34:3X:48:HIS:HB3	34:4A:196:LEU:HD23	1.99	0.43
34:3X:325:ASP:O	34:3X:329:THR:HG23	2.17	0.43
34:3Z:270:ILE:HG22	34:3Z:273:ARG:NH2	2.33	0.43
12:3a:21:TRP:CZ2	12:3a:63:ALA:HB2	2.54	0.43
13:3b:317:LEU:HB3	13:3b:319:TYR:CE1	2.53	0.43
13:3f:317:LEU:HB3	13:3f:319:TYR:CE1	2.53	0.43
34:4A:85:TYR:HB3	34:4A:324:HIS:CD2	2.53	0.43
35:4C:800:PRO:HB3	37:4E:1681:ARG:NH1	2.34	0.43
37:4E:581:LEU:CB	43:5L:34:ALA:CA	2.75	0.43
37:4E:808:SER:HA	37:4E:1627:ILE:O	2.18	0.43
37:4E:1403:PRO:HA	37:4E:1440:LEU:HD11	1.99	0.43
37:4E:1704:GLN:NE2	37:4E:1772:LEU:O	2.52	0.43
37:4F:968:VAL:H	37:4F:1076:THR:H	1.67	0.43
37:4F:1073:LEU:CG	37:4F:1379:ALA:CB	2.93	0.43
37:4G:740:LEU:HD13	37:4G:1794:ILE:HG12	2.01	0.43
37:4G:1314:LEU:HD23	37:4G:1324:THR:CG2	2.49	0.43
37:4G:1335:MET:CA	38:4L:28:VAL:CA	2.77	0.43
37:4H:820:ARG:HB3	37:4H:870:THR:HG21	2.01	0.43
37:4H:958:LEU:CG	37:4H:959:LEU:N	2.76	0.43
37:4H:1094:ALA:HA	37:4H:1095:PRO:HD2	1.53	0.43
37:4H:1314:LEU:HA	37:4H:1314:LEU:HD12	1.71	0.43
38:4I:36:VAL:O	38:4I:37:GLY:C	2.55	0.43
38:4J:68:LEU:CD1	38:4J:80:LEU:HB2	2.31	0.43
38:4K:27:ALA:O	38:4K:28:VAL:C	2.58	0.43
38:4M:38:VAL:HG13	38:4M:41:LYS:HB3	1.99	0.43
38:4N:31:ALA:O	38:4N:32:GLU:C	2.60	0.43
38:4N:45:ALA:C	38:4N:47:ALA:N	2.72	0.43
38:4O:26:GLU:HA	38:4O:29:LYS:HD3	2.00	0.43
39:4Q:135:GLU:HA	39:4Q:138:LEU:CD2	2.48	0.43
39:4Q:210:LEU:HD23	39:4Q:210:LEU:HA	1.81	0.43
39:4S:43:TYR:CD2	44:5U:89:LEU:HD13	2.53	0.43
39:4S:163:VAL:HG13	39:4S:205:ALA:HB2	2.00	0.43
40:4T:332:SER:HA	40:4T:335:VAL:HG12	1.99	0.43
40:4V:624:THR:O	40:4V:628:THR:HG23	2.18	0.43
12:4c:66:MET:SD	12:4c:147:MET:HE2	2.58	0.43
42:5H:98:PHE:CE1	42:5H:129:MET:HG3	2.52	0.43
43:5I:143:MET:O	43:5I:147:THR:CG2	2.65	0.43
43:5J:7:TRP:HH2	43:5J:69:ASP:OD2	2.00	0.43
43:5J:51:HIS:HB3	43:5J:55:TYR:CE2	2.53	0.43
43:5J:84:HIS:CA	43:5J:87:ILE:HD12	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5J:143:MET:SD	43:5J:147:THR:HG21	2.59	0.43
43:5K:51:HIS:HB3	43:5K:55:TYR:CE2	2.53	0.43
44:5N:26:ASP:HA	1:0W:410:LYS:NZ	2.33	0.43
12:5c:398:TYR:O	12:5c:403:MET:HB2	2.19	0.43
12:5g:99:ASN:HA	12:5g:142:GLY:H	1.82	0.43
47:6A:1089:LYS:HG2	47:6A:1089:LYS:HZ2	1.63	0.43
47:6A:1360:MET:HE3	47:6A:1364:VAL:HG23	2.00	0.43
47:6A:1562:THR:HG21	47:6A:1750:VAL:HG13	2.00	0.43
47:6B:960:GLU:O	47:6B:964:LEU:HG	2.18	0.43
47:6B:1185:SER:HB2	47:6B:1287:GLN:HE21	1.83	0.43
47:6B:1300:ALA:CB	47:6B:1330:PRO:HD3	2.48	0.43
48:6E:104:GLU:CG	48:6E:105:LEU:H	2.32	0.43
48:6E:679:GLY:HA3	48:6E:766:HIS:NE2	2.33	0.43
48:6E:867:SER:OG	48:6E:868:PRO:HD3	2.18	0.43
48:6F:259:VAL:HG11	48:6F:264:LEU:HD11	1.99	0.43
48:6F:995:VAL:CG2	48:6F:1045:PHE:HB2	2.47	0.43
49:6G:113:ILE:HA	49:6G:117:ILE:HB	2.00	0.43
49:6G:113:ILE:HG12	49:6G:117:ILE:HD12	2.01	0.43
49:6G:194:ILE:HD12	49:6G:234:LEU:CD2	2.48	0.43
49:6G:366:VAL:HG23	49:6G:368:ASN:HB2	2.01	0.43
49:6J:43:THR:HA	49:6J:44:PRO:HD3	1.92	0.43
49:6J:415:HIS:HB3	49:6J:439:THR:HA	2.01	0.43
50:6K:266:LEU:HD12	50:6K:266:LEU:HA	1.85	0.43
50:6L:50:ARG:HB3	50:6L:109:TYR:CE1	2.54	0.43
51:6M:1246:PRO:HB2	51:6M:1250:GLY:HA3	2.00	0.43
51:6M:1262:PHE:CD1	51:6M:1456:LEU:HD13	2.53	0.43
51:6M:1475:GLU:CG	51:6M:1478:TYR:HE1	2.31	0.43
51:6M:2100:ARG:HD2	51:6M:2100:ARG:HA	1.76	0.43
51:6N:2137:ASP:HB3	51:6N:2139:PHE:CD2	2.54	0.43
13:6b:404:PHE:CD1	12:6c:259:PRO:HA	2.53	0.43
12:6c:64:ILE:HD13	12:6c:120:VAL:HG22	1.98	0.43
12:7a:326:VAL:O	12:7a:330:MET:HG2	2.18	0.43
12:7c:245:GLN:HB3	12:7c:353:VAL:CG2	2.49	0.43
12:7e:185:ALA:O	12:7e:189:VAL:HG23	2.18	0.43
12:8a:267:MET:HE1	12:8a:305:PRO:HG3	2.00	0.43
12:8c:317:PHE:HB3	12:8c:321:MET:CE	2.46	0.43
13:8f:68:LEU:HD12	13:8f:93:ILE:HB	1.99	0.43
12:8g:237:THR:OG1	12:8g:241:ARG:NH1	2.51	0.43
13:8h:301:MET:HE1	13:8h:377:MET:HE1	2.01	0.43
12:9e:139:LEU:O	12:9e:171:PRO:HD3	2.18	0.43
13:9f:246:GLY:N	13:9f:249:ASN:OD1	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:9f:301:MET:HE1	13:9f:377:MET:HE1	2.01	0.43
12:Aa:95:THR:HA	13:Ab:133:GLN:HE22	1.83	0.43
12:Aa:208:TYR:CE1	12:Aa:225:LEU:HD11	2.54	0.43
13:Ad:11:GLN:HE22	12:Ae:247:ASN:H	1.67	0.43
12:Ae:70:PRO:HG3	12:Ae:92:PHE:CD2	2.54	0.43
12:Ae:98:GLY:C	13:Af:254:GLU:HG2	2.43	0.43
12:Ae:397:TRP:CZ2	13:Af:260:VAL:HB	2.40	0.43
12:Ag:229:ILE:O	12:Ag:233:MET:HG3	2.19	0.43
12:Bc:75:SER:HA	12:Bc:78:SER:OG	2.18	0.43
12:Bc:229:ILE:O	12:Bc:233:MET:HG3	2.19	0.43
12:Bg:173:PRO:HA	12:Bg:380:ARG:HD2	2.00	0.43
12:Dc:165:LEU:HD11	12:Dc:200:MET:HE2	2.00	0.43
13:Df:90:GLU:OE1	13:Df:121:ARG:NE	2.44	0.43
12:Dg:229:ILE:O	12:Dg:233:MET:HG3	2.18	0.43
13:Dh:147:SER:HB2	13:Dh:190:SER:HB3	2.01	0.43
1:0H:270:HIS:O	1:0H:274:VAL:HG23	2.18	0.43
1:0J:24:VAL:HG13	1:0J:37:LEU:HD21	2.00	0.43
1:0W:318:GLY:HA3	1:0W:359:THR:HG22	1.99	0.43
1:0W:338:PRO:O	1:0W:341:VAL:HG22	2.19	0.43
1:0K:307:GLY:O	1:0K:311:LEU:HG	2.19	0.43
1:0A:51:LEU:HD13	47:6B:121:LEU:HB2	1.99	0.43
1:0A:91:SER:OG	1:0A:103:ALA:HB2	2.18	0.43
1:0A:257:LEU:HD21	1:0A:294:GLY:HA2	2.00	0.43
1:0A:320:ILE:HG22	1:0A:327:LEU:HB3	2.01	0.43
1:0B:3:THR:HG23	1:0B:5:ALA:N	2.34	0.43
1:0B:184:LYS:HB3	1:0B:217:LEU:HD21	2.00	0.43
1:0B:328:ALA:HA	1:0B:331:VAL:HG22	2.00	0.43
1:0D:83:GLU:O	1:0D:86:PRO:HD2	2.17	0.43
1:0E:27:MET:CB	1:0E:37:LEU:HD21	2.49	0.43
1:0E:28:ALA:O	1:0E:34:ILE:HD11	2.18	0.43
1:0F:241:VAL:HG22	1:0F:281:HIS:HD2	1.84	0.43
1:0G:213:TYR:O	1:0G:216:PRO:HD2	2.19	0.43
1:0G:286:ALA:HB1	1:0G:320:ILE:HG22	2.00	0.43
1:0G:318:GLY:HA3	1:0G:359:THR:HG22	1.99	0.43
1:0L:156:ASN:HD21	1:0L:159:LEU:HD13	1.83	0.43
1:0L:355:ALA:O	1:0L:359:THR:HG23	2.19	0.43
1:0M:332:ILE:HD11	1:0M:363:ILE:HG21	2.01	0.43
1:0M:365:ARG:HE	1:0M:365:ARG:HB2	1.68	0.43
1:0O:108:ARG:NH2	1:0O:144:ALA:HB1	2.34	0.43
1:0P:236:ILE:HG22	1:0P:243:LEU:HB3	2.01	0.43
1:0T:182:SER:HA	1:0T:185:ARG:NE	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0V:414:LEU:HD21	1:0V:438:GLY:C	2.43	0.43
1:0X:222:ASP:HB3	1:0X:225:LEU:HB2	2.00	0.43
1:0Y:15:LYS:O	1:0Y:18:VAL:HG22	2.19	0.43
1:0Y:91:SER:OG	1:0Y:100:LYS:HA	2.19	0.43
1:0Y:185:ARG:HD3	1:0Y:224:LYS:HB3	1.99	0.43
1:1A:338:PRO:HB2	1:1A:339:PRO:HD3	2.00	0.43
1:1C:181:LEU:O	1:1C:185:ARG:HG2	2.18	0.43
1:1C:305:SER:OG	1:1C:310:ARG:HB3	2.19	0.43
1:1C:414:LEU:HD11	1:1C:438:GLY:C	2.44	0.43
2:1D:127:LEU:CD1	2:1D:146:ALA:HB1	2.43	0.43
2:1E:117:SER:HA	2:1E:120:GLN:NE2	2.33	0.43
2:1E:127:LEU:CD1	2:1E:146:ALA:HB1	2.43	0.43
2:1F:8:LEU:CD1	13:Ah:422:ARG:HH12	2.32	0.43
2:1F:173:ILE:HD12	2:1F:216:THR:HG22	2.00	0.43
2:1F:511:ARG:C	2:1F:513:GLU:H	2.26	0.43
2:1G:306:LYS:HD3	2:1G:306:LYS:HA	1.71	0.43
3:1H:197:SER:N	47:6A:290:GLY:CA	2.82	0.43
3:1I:183:ALA:O	3:1I:186:ARG:HB2	2.19	0.43
4:1J:79:LYS:HD3	47:6B:92:ARG:HH12	1.77	0.43
5:1L:440:LYS:HB3	12:1c:262:ARG:HH11	1.84	0.43
5:1L:552:HIS:HE1	5:1L:556:TYR:CE1	2.37	0.43
5:1M:552:HIS:HE1	5:1M:556:TYR:CE1	2.37	0.43
6:1N:802:GLN:HB3	6:1N:829:PHE:HB3	1.99	0.43
6:1N:1077:CYS:O	6:1N:1081:VAL:HG23	2.17	0.43
7:1O:2267:LYS:O	7:1O:2271:THR:HG23	2.18	0.43
7:1O:2439:PRO:HA	7:1O:2440:PRO:HD3	1.94	0.43
8:1P:978:LEU:HD23	8:1P:980:ARG:H	1.82	0.43
10:1R:334:PRO:CG	13:Ab:415:GLU:HG2	2.49	0.43
10:1R:334:PRO:HD3	13:Ab:415:GLU:HG2	2.00	0.43
10:1S:123:THR:OG1	10:1S:132:LEU:HD22	2.17	0.43
10:1S:445:TRP:HH2	12:Be:23:VAL:HG21	1.83	0.43
12:1a:16:ILE:HD11	12:1a:229:ILE:CG2	2.47	0.43
53:1a:501:GDP:H2'	13:1b:248:LEU:HD21	1.99	0.43
12:1c:139:LEU:HD22	12:1c:188:SER:HB2	2.01	0.43
12:1e:207:LEU:HA	12:1e:210:ILE:HG12	2.00	0.43
12:1e:406:MET:HE3	12:1e:406:MET:HB3	1.88	0.43
13:1f:301:MET:HE1	13:1f:377:MET:HE1	2.01	0.43
13:2b:90:GLU:OE1	13:2b:121:ARG:NE	2.44	0.43
12:2c:120:VAL:HG21	12:2c:155:ILE:HD11	2.00	0.43
12:2c:189:VAL:HG21	12:2c:378:PHE:CE1	2.54	0.43
13:2h:301:MET:HE1	13:2h:377:MET:HE1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:3F:375:ASP:C	13:8f:309:HIS:HD2	2.26	0.43
34:3M:99:ARG:HD3	34:3M:102:GLN:OE1	2.18	0.43
34:3N:75:GLN:HG3	34:3N:419:LEU:CD2	2.48	0.43
34:3P:118:HIS:CE1	34:3P:121:LEU:HD11	2.53	0.43
34:3P:377:ARG:O	34:3P:381:ASN:ND2	2.52	0.43
34:3Q:485:TYR:HD1	34:3T:248:PHE:CE2	2.36	0.43
34:3R:355:SER:HA	34:3R:358:GLU:CG	2.47	0.43
34:3T:324:HIS:HB3	34:3T:328:MET:CE	2.44	0.43
34:3Y:269:GLY:HA3	34:3Y:463:HIS:ND1	2.33	0.43
34:3Z:89:ILE:O	34:3Z:93:VAL:HG23	2.18	0.43
12:3c:388:MET:HA	13:3d:346:TRP:O	2.18	0.43
13:3d:273:ALA:N	13:3d:375:VAL:O	2.48	0.43
13:3d:317:LEU:HB3	13:3d:319:TYR:CE1	2.53	0.43
34:4A:356:PHE:HZ	34:4A:378:SER:CB	2.31	0.43
34:4B:452:HIS:CE1	34:4B:456:LEU:HD23	2.54	0.43
35:4C:736:ARG:O	35:4C:772:CYS:HB2	2.18	0.43
36:4D:206:PRO:HB3	36:4D:224:PHE:CZ	2.52	0.43
37:4E:1111:VAL:CA	42:5H:42:ARG:O	2.64	0.43
37:4E:1165:ARG:HH21	37:4E:1182:ARG:HG3	1.79	0.43
37:4F:512:LEU:HA	37:4F:539:GLN:HG3	2.00	0.43
37:4F:828:VAL:HG13	37:4F:856:MET:HG3	2.01	0.43
37:4F:958:LEU:HB3	38:4N:48:PRO:HG2	2.00	0.43
37:4G:690:CYS:SG	38:4I:57:VAL:N	2.91	0.43
37:4G:856:MET:SD	38:4L:85:LEU:HA	2.58	0.43
37:4G:1075:VAL:CG1	37:4G:1083:ILE:HG22	2.48	0.43
37:4G:1282:ILE:HG22	37:4G:1300:GLU:HB3	1.99	0.43
37:4G:1319:ASP:HB2	38:4L:29:LYS:HZ3	1.81	0.43
38:4K:57:VAL:O	38:4K:58:VAL:C	2.60	0.43
38:4M:60:VAL:CG1	38:4M:87:HIS:HB2	2.36	0.43
39:4Q:137:ASN:O	39:4Q:141:GLU:HG2	2.19	0.43
39:4S:37:ILE:CD1	44:5U:112:VAL:HG12	2.48	0.43
40:4U:302:CYS:SG	40:4U:364:LEU:HB2	2.58	0.43
40:4U:692:ARG:O	40:4U:692:ARG:HG3	2.19	0.43
40:4V:440:CYS:HB3	40:4V:467:ALA:H	1.83	0.43
40:4V:455:THR:C	40:4V:457:THR:H	2.27	0.43
12:4a:258:ILE:CD1	12:4a:264:HIS:HB3	2.47	0.43
13:4b:317:LEU:HB3	13:4b:319:TYR:CE1	2.53	0.43
12:4e:151:LEU:O	12:4e:155:ILE:HG12	2.19	0.43
41:5A:21:GLY:C	43:5L:188:GLU:HA	2.43	0.43
42:5H:136:HIS:ND1	43:5L:51:HIS:CA	2.81	0.43
42:5H:138:ARG:HG3	43:5L:51:HIS:NE2	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5H:140:TYR:CZ	43:5L:50:ILE:HD11	2.50	0.43
43:5I:83:HIS:CE1	43:5I:142:TYR:HD1	2.36	0.43
43:5J:158:HIS:ND1	43:5J:160:SER:HB3	2.31	0.43
43:5L:16:GLU:C	43:5L:18:ILE:N	2.75	0.43
43:5L:83:HIS:CE1	43:5L:142:TYR:HD1	2.36	0.43
13:5d:68:LEU:HD12	13:5d:93:ILE:HB	1.99	0.43
12:5e:60:VAL:HA	12:5e:61:PRO:HD3	1.84	0.43
12:5e:139:LEU:HD21	12:5e:192:LEU:HD11	2.01	0.43
12:5g:322:SER:OG	12:5g:325:GLU:HB2	2.18	0.43
47:6A:24:ASP:HB3	47:6A:30:LEU:HD13	2.01	0.43
47:6A:64:GLN:O	47:6A:64:GLN:HG2	2.06	0.43
47:6A:960:GLU:O	47:6A:964:LEU:HG	2.18	0.43
47:6A:1300:ALA:CB	47:6A:1330:PRO:HD3	2.48	0.43
47:6A:1798:ASN:OD1	47:6A:1799:ASN:N	2.47	0.43
47:6B:24:ASP:HB3	47:6B:30:LEU:HD13	2.01	0.43
47:6B:1072:GLU:HG3	47:6B:1076:ARG:HH21	1.83	0.43
47:6B:1101:ARG:HD2	47:6B:1101:ARG:N	2.33	0.43
48:6E:691:ASN:OD1	48:6E:825:VAL:HG12	2.18	0.43
48:6E:760:SER:HA	48:6E:765:SER:HA	2.00	0.43
48:6F:282:LEU:HB3	48:6F:309:LEU:HD12	2.01	0.43
48:6F:679:GLY:HA3	48:6F:766:HIS:NE2	2.33	0.43
48:6F:867:SER:OG	48:6F:868:PRO:HD3	2.18	0.43
49:6G:18:GLU:CD	49:6G:42:LEU:HD11	2.43	0.43
49:6H:17:GLU:OE1	49:6H:17:GLU:HA	2.16	0.43
49:6I:415:HIS:HB3	49:6I:439:THR:HA	2.01	0.43
49:6J:18:GLU:CD	49:6J:42:LEU:HD11	2.43	0.43
49:6J:460:GLU:HG3	49:6J:460:GLU:H	1.57	0.43
50:6K:18:CYS:HB2	50:6K:376:ALA:HB2	1.99	0.43
50:6K:50:ARG:HB3	50:6K:109:TYR:CE1	2.54	0.43
50:6L:234:LEU:HD21	50:6L:318:LYS:HE3	1.99	0.43
50:6L:266:LEU:HD12	50:6L:266:LEU:HA	1.85	0.43
50:6L:403:THR:HG22	50:6L:424:THR:H	1.83	0.43
51:6M:2438:GLN:O	51:6M:2442:THR:HG23	2.19	0.43
51:6N:2438:GLN:O	51:6N:2442:THR:HG23	2.19	0.43
12:7e:337:ASN:HB3	12:7e:340:TYR:HD2	1.84	0.43
12:8a:3:GLU:HB3	12:8a:62:ARG:NH2	2.34	0.43
12:8c:67:ASP:O	12:8c:92:PHE:HA	2.19	0.43
12:8c:327:ASP:OD2	12:8c:328:GLU:N	2.52	0.43
13:8d:68:LEU:HD12	13:8d:93:ILE:HB	1.99	0.43
12:8e:3:GLU:HB3	12:8e:62:ARG:HH21	1.83	0.43
13:8h:147:SER:HB2	13:8h:190:SER:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:9a:318:ARG:HB3	12:9a:357:PRO:HA	2.00	0.43
12:9a:406:MET:HE3	12:9a:406:MET:HB3	1.91	0.43
12:Aa:219:THR:HG23	13:Ab:324:VAL:CG2	2.45	0.43
12:Ac:229:ILE:O	12:Ac:233:MET:HG3	2.19	0.43
12:Ac:378:PHE:HD1	12:Ac:415:MET:HE3	1.84	0.43
13:Af:301:MET:HE1	13:Af:377:MET:HE1	2.00	0.43
12:Ba:222:PHE:HE2	13:Bb:248:LEU:HG	1.81	0.43
12:Be:21:TRP:CD1	12:Be:85:PHE:HE1	2.35	0.43
12:Bg:107:THR:OG1	12:Bg:108:GLU:N	2.50	0.43
13:Cb:175:PRO:O	13:Cb:394:LYS:NZ	2.46	0.43
12:Cc:67:ASP:O	12:Cc:92:PHE:HA	2.19	0.43
12:Cc:229:ILE:O	12:Cc:233:MET:HG3	2.19	0.43
12:Da:18:ALA:HB2	12:Da:76:VAL:HG23	2.00	0.43
12:Dg:161:ASP:OD1	12:Dg:161:ASP:N	2.50	0.43
1:0W:128:ASP:HA	1:0W:131:VAL:HB	2.00	0.43
1:0W:169:VAL:O	1:0W:173:VAL:HG23	2.18	0.43
1:0K:118:ALA:O	1:0K:122:ILE:HG13	2.17	0.43
1:0A:79:VAL:HG13	1:0A:84:ILE:HB	1.99	0.43
1:0A:108:ARG:CZ	1:0A:147:TRP:CE3	2.98	0.43
1:0B:3:THR:CG2	1:0B:6:VAL:H	2.32	0.43
1:0B:27:MET:O	1:0B:33:ASN:HB2	2.18	0.43
1:0B:122:ILE:HG12	1:0B:127:LEU:HD21	2.00	0.43
1:0B:213:TYR:O	1:0B:216:PRO:HD2	2.19	0.43
1:0E:134:LEU:HD21	1:0E:146:ALA:HB2	1.99	0.43
1:0E:218:VAL:HG22	1:0E:229:VAL:CG2	2.49	0.43
1:0E:253:PHE:HE1	1:0E:275:VAL:HG13	1.83	0.43
1:0E:338:PRO:HB2	1:0E:339:PRO:HD3	2.01	0.43
1:0N:160:ALA:HA	1:0N:163:VAL:HG22	2.01	0.43
1:0N:179:PRO:HD2	32:3J:97:GLY:HA2	2.00	0.43
1:0N:355:ALA:O	1:0N:359:THR:HG23	2.19	0.43
1:0P:134:LEU:HG	1:0P:145:SER:OG	2.19	0.43
1:0P:301:TYR:OH	1:0P:309:ASN:O	2.26	0.43
1:0S:34:ILE:HD13	1:0S:71:TYR:HB2	2.01	0.43
1:0S:305:SER:OG	1:0S:310:ARG:HB3	2.18	0.43
1:0T:344:LEU:C	1:0T:382:THR:HG21	2.44	0.43
1:0X:168:ALA:O	1:0X:172:LEU:HG	2.18	0.43
1:0X:359:THR:O	1:0X:363:ILE:HG13	2.18	0.43
1:0Z:218:VAL:HG12	1:0Z:255:LYS:HB3	2.01	0.43
1:1C:162:GLN:HA	1:1C:165:ASP:OD1	2.19	0.43
1:1C:307:GLY:O	1:1C:311:LEU:HG	2.19	0.43
2:1D:231:ASN:C	2:1D:233:LEU:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:236:VAL:CG1	2:1D:253:ALA:HB1	2.48	0.43
2:1E:245:THR:N	2:1E:246:PRO:HD3	2.33	0.43
2:1F:61:VAL:O	2:1F:64:THR:HG22	2.19	0.43
2:1G:183:ILE:O	2:1G:188:LEU:HD22	2.19	0.43
3:1H:183:ALA:O	3:1H:186:ARG:HB2	2.19	0.43
3:1H:262:GLU:OE2	47:6A:347:ARG:HG2	2.18	0.43
3:1H:589:ALA:HB2	3:1H:644:ARG:NH2	2.33	0.43
4:1J:212:LYS:HA	4:1J:254:VAL:O	2.19	0.43
4:1K:132:SER:O	4:1K:158:VAL:HA	2.18	0.43
5:1L:321:PRO:O	5:1L:323:GLN:N	2.51	0.43
5:1L:386:THR:HA	5:1L:439:PRO:HG2	2.01	0.43
5:1M:549:MET:HB2	13:1f:163:LYS:HE2	2.01	0.43
5:1M:556:TYR:CB	12:1e:396:HIS:HB3	2.49	0.43
6:1N:594:PRO:HA	6:1N:595:PRO:HD3	1.93	0.43
7:1O:1289:GLU:O	7:1O:1293:LEU:HD23	2.19	0.43
7:1O:1334:PRO:O	7:1O:1360:MET:HG3	2.19	0.43
7:1O:1385:ARG:HG2	44:5V:61:ALA:HB3	2.00	0.43
7:1O:1388:LEU:HA	7:1O:1499:MET:HE2	2.01	0.43
10:1R:59:GLY:HA3	10:1R:99:THR:CG2	2.48	0.43
10:1S:110:PHE:CE1	12:9g:106:TYR:CG	3.06	0.43
12:1a:50:TYR:OH	12:1a:237:THR:OG1	1.93	0.43
12:1c:161:ASP:OD1	12:1c:162:ARG:HG2	2.18	0.43
12:1e:394:PHE:CD1	13:1f:261:PRO:HA	2.53	0.43
12:1e:396:HIS:NE2	13:1f:261:PRO:O	2.52	0.43
12:1g:139:LEU:HD22	12:1g:188:SER:HB2	2.01	0.43
14:2F:45:ARG:HB2	13:Db:244:PHE:CD1	2.54	0.43
17:2J:40:UNK:C	13:Cb:229:ARG:NH2	2.81	0.43
17:2K:72:UNK:O	13:Bf:279:GLU:OE2	2.36	0.43
22:2P:20:UNK:HA	12:5g:125:GLU:O	2.17	0.43
24:2U:178:ALA:O	24:2U:182:THR:HG23	2.19	0.43
24:2U:209:TYR:OH	12:Cc:262:ARG:HG2	2.19	0.43
24:2V:140:PRO:HG2	13:Cf:117:LEU:HD11	2.00	0.43
12:2a:209:ASP:OD2	12:2a:213:ARG:HD2	2.19	0.43
12:2a:392:LYS:NZ	12:2a:405:GLU:OE1	2.52	0.43
13:2b:301:MET:HE1	13:2b:377:MET:HE1	2.00	0.43
13:2d:68:LEU:HD12	13:2d:93:ILE:HB	1.99	0.43
13:2f:177:VAL:HB	12:2g:331:LEU:HD22	1.99	0.43
13:2f:301:MET:HE1	13:2f:377:MET:HE1	2.01	0.43
28:3C:554:ARG:NH1	12:3g:407:GLU:OE2	2.49	0.43
29:3E:1188:TRP:HZ2	29:3E:1195:ARG:HE	1.59	0.43
29:3E:1220:THR:CB	12:5c:400:GLY:HA2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:3I:146:SER:O	31:3I:150:GLU:HG2	2.18	0.43
31:3I:175:ARG:HH12	32:3K:34:VAL:HG22	1.84	0.43
32:3J:334:ALA:N	12:9a:197:ASP:HA	2.34	0.43
32:3K:191:VAL:HG12	32:3K:193:PRO:HD2	1.99	0.43
34:3N:215:THR:HG23	34:3Q:66:LYS:HD2	1.99	0.43
34:3N:349:LEU:HD22	34:3N:382:LEU:HD13	2.01	0.43
34:3O:48:HIS:NE2	34:3T:195:THR:OG1	2.52	0.43
34:3P:492:LEU:HD23	34:3P:492:LEU:HA	1.89	0.43
34:3Q:82:ILE:O	34:3Q:86:GLN:HG3	2.19	0.43
34:3Q:356:PHE:HZ	34:3Q:371:ALA:O	2.02	0.43
34:3Q:471:ARG:HG3	34:3T:496:TYR:CE2	2.54	0.43
34:3R:80:LEU:HD11	34:4B:43:ARG:HB3	2.00	0.43
34:3R:267:GLU:H	34:3R:270:ILE:CD1	2.28	0.43
34:3S:188:ASN:OD1	34:3S:188:ASN:O	2.37	0.43
34:3V:104:ARG:HH12	34:3V:387:VAL:HG13	1.82	0.43
34:3V:252:GLU:O	34:3V:256:GLU:HG3	2.18	0.43
34:3V:266:HIS:CD2	34:3V:270:ILE:HD11	2.53	0.43
34:3W:372:GLN:O	34:3W:376:THR:HG23	2.19	0.43
12:3c:229:ILE:O	12:3c:233:MET:HG3	2.19	0.43
12:3e:27:GLU:O	12:3e:359:LYS:HE3	2.19	0.43
12:3e:337:ASN:HB2	12:3e:341:PHE:HE1	1.83	0.43
13:3h:68:LEU:HD12	13:3h:93:ILE:HB	1.99	0.43
13:3h:217:LEU:HG	13:3h:277:SER:HB3	2.01	0.43
34:4A:189:PRO:O	34:4A:192:TYR:HE1	2.01	0.43
34:4A:446:GLN:O	34:4A:449:GLU:HG2	2.18	0.43
37:4E:574:LEU:HD21	42:5H:98:PHE:CE2	2.54	0.43
37:4E:885:MET:SD	37:4E:886:PRO:HD2	2.59	0.43
37:4E:1172:TRP:HZ3	37:4E:1201:SER:CB	2.32	0.43
37:4E:1517:TYR:OH	37:4E:1520:PRO:HD3	2.19	0.43
37:4F:429:TYR:HB2	37:4F:854:TYR:HD1	1.83	0.43
37:4F:508:PRO:C	37:4F:510:HIS:CD2	2.96	0.43
37:4F:1077:THR:CA	37:4F:1081:HIS:O	2.66	0.43
37:4F:1722:ARG:O	37:4F:1723:TYR:HB3	2.19	0.43
37:4G:1093:VAL:HB	38:4L:33:LYS:C	2.44	0.43
37:4G:1722:ARG:O	37:4G:1723:TYR:HB3	2.19	0.43
37:4H:944:LYS:HD3	37:4H:944:LYS:HA	1.86	0.43
37:4H:953:PRO:C	38:4M:48:PRO:HD3	2.34	0.43
37:4H:1073:LEU:HD11	37:4H:1367:VAL:O	2.19	0.43
37:4H:1131:THR:HG22	37:4H:1132:PRO:O	2.18	0.43
39:4Q:163:VAL:HG13	39:4Q:205:ALA:HB2	2.00	0.43
39:4R:37:ILE:HA	39:4R:37:ILE:HD13	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:4T:53:VAL:CG2	40:4T:421:ALA:HA	2.48	0.43
40:4T:601:ALA:O	40:4T:605:PHE:HD1	2.01	0.43
40:4U:624:THR:O	40:4U:628:THR:HG23	2.18	0.43
40:4U:648:SER:O	40:4U:649:ASP:O	2.36	0.43
12:4a:139:LEU:HD21	12:4a:192:LEU:HD11	2.00	0.43
12:4c:229:ILE:O	12:4c:233:MET:HG3	2.18	0.43
13:4d:317:LEU:HB3	13:4d:319:TYR:CE1	2.53	0.43
41:5B:146:LEU:HA	41:5B:160:GLN:HA	2.00	0.43
42:5E:32:LEU:HB3	42:5E:51:LEU:HD11	2.00	0.43
42:5E:142:HIS:O	42:5E:146:THR:HG22	2.18	0.43
43:5I:70:ASP:N	43:5I:70:ASP:OD1	2.51	0.43
43:5K:53:ASP:HA	43:5K:56:VAL:HB	2.01	0.43
43:5K:54:LEU:O	43:5K:58:THR:HG23	2.18	0.43
43:5K:124:MET:HE3	43:5K:124:MET:HB3	1.93	0.43
43:5L:53:ASP:HA	43:5L:56:VAL:HB	2.01	0.43
43:5L:54:LEU:O	43:5L:58:THR:HG23	2.18	0.43
12:5a:21:TRP:CZ2	12:5a:63:ALA:HB2	2.54	0.43
12:5a:275:SER:HB3	12:5a:278:SER:OG	2.19	0.43
12:5a:287:PRO:HD3	12:5a:325:GLU:OE1	2.19	0.43
12:5e:48:ASN:O	12:5e:62:ARG:NH2	2.44	0.43
13:5f:301:MET:HE1	13:5f:377:MET:HE1	2.01	0.43
47:6A:200:GLN:HA	47:6A:203:THR:OG1	2.18	0.43
47:6A:1101:ARG:HD2	47:6A:1101:ARG:N	2.32	0.43
47:6A:1245:ARG:O	47:6A:1248:GLU:HB2	2.18	0.43
47:6B:179:GLY:HA2	13:Ch:308:ARG:O	2.19	0.43
47:6B:562:HIS:HD2	47:6B:807:ALA:HB2	1.82	0.43
47:6B:1245:ARG:O	47:6B:1248:GLU:HB2	2.18	0.43
3:6D:95:THR:HG23	3:6D:96:ALA:N	2.34	0.43
48:6F:607:HIS:CD2	48:6F:609:TRP:HE3	2.24	0.43
49:6G:315:LYS:HD2	49:6G:319:GLN:CD	2.44	0.43
49:6H:256:ALA:HB3	49:6J:248:ASN:HD21	1.83	0.43
49:6H:264:GLU:HA	49:6H:267:ASN:HD22	1.83	0.43
49:6H:366:VAL:HG23	49:6H:368:ASN:HB2	2.01	0.43
50:6K:458:ASP:O	50:6K:459:ASN:O	2.35	0.43
50:6L:105:ILE:HD11	50:6L:116:PHE:HB2	2.00	0.43
50:6L:458:ASP:O	50:6L:459:ASN:O	2.35	0.43
51:6M:2137:ASP:HB3	51:6M:2139:PHE:CD2	2.54	0.43
51:6N:1246:PRO:HB2	51:6N:1250:GLY:HA3	2.00	0.43
51:6N:1262:PHE:CD1	51:6N:1456:LEU:HD13	2.53	0.43
12:6a:86:ARG:CZ	12:7a:281:TYR:HA	2.47	0.43
12:6c:3:GLU:N	12:6c:3:GLU:OE1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:6d:301:MET:HE1	13:6d:377:MET:HE1	2.00	0.43
12:6e:139:LEU:O	12:6e:171:PRO:HD3	2.19	0.43
12:7a:23:VAL:HA	12:7a:26:ASP:OD2	2.19	0.43
12:7c:27:GLU:OE2	12:7c:318:ARG:NH2	2.38	0.43
12:7c:161:ASP:OD1	12:7c:161:ASP:N	2.50	0.43
12:7e:139:LEU:O	12:7e:171:PRO:HD3	2.18	0.43
12:7e:151:LEU:O	12:7e:155:ILE:HG12	2.18	0.43
12:7e:334:GLN:HE22	12:7e:347:ASN:CG	2.27	0.43
12:7g:67:ASP:O	12:7g:92:PHE:HA	2.19	0.43
12:7g:229:ILE:O	12:7g:233:MET:HG3	2.19	0.43
12:8a:68:LEU:HD23	12:8a:143:THR:HG23	2.00	0.43
13:8b:68:LEU:HD12	13:8b:93:ILE:HB	1.99	0.43
12:8e:73:MET:CE	12:8e:92:PHE:HB3	2.47	0.43
12:8g:127:CYS:SG	12:8g:130:LEU:HB2	2.59	0.43
12:8g:175:VAL:HG11	13:8h:332:VAL:HG13	2.01	0.43
12:8g:193:VAL:HG13	12:8g:262:ARG:HB2	2.00	0.43
12:8g:229:ILE:O	12:8g:233:MET:HG3	2.19	0.43
12:9a:73:MET:CE	12:9a:92:PHE:HB3	2.48	0.43
12:9c:176:SER:HB2	12:9c:181:GLU:OE1	2.18	0.43
12:9e:150:LEU:O	12:9e:153:SER:OG	2.32	0.43
12:9e:197:ASP:OD1	12:9e:198:GLU:N	2.52	0.43
12:9g:284:LEU:HD23	12:9g:362:LYS:HB3	2.00	0.43
12:Aa:139:LEU:O	12:Aa:171:PRO:HD3	2.18	0.43
12:Ae:33:THR:CG2	12:Ae:35:THR:HG22	2.47	0.43
12:Ae:208:TYR:CE1	12:Ae:225:LEU:HD11	2.54	0.43
12:Ae:210:ILE:HG22	12:Ae:297:LYS:O	2.18	0.43
12:Ba:176:SER:HB2	12:Ba:181:GLU:OE1	2.19	0.43
13:Bd:217:LEU:HG	13:Bd:277:SER:HB3	2.01	0.43
12:Be:207:LEU:HA	12:Be:210:ILE:HG12	2.01	0.43
12:Be:222:PHE:CZ	13:Bf:325:PRO:HB3	2.54	0.43
12:Ca:11:GLN:HA	12:Ca:72:THR:HG21	2.00	0.43
12:Ca:328:GLU:O	12:Ca:331:LEU:HG	2.18	0.43
12:Ce:393:ALA:O	13:Cf:261:PRO:O	2.37	0.43
12:Cg:67:ASP:O	12:Cg:92:PHE:HA	2.19	0.43
13:Dd:90:GLU:OE1	13:Dd:121:ARG:NE	2.44	0.43
13:Dd:147:SER:HB2	13:Dd:190:SER:HB3	2.01	0.43
1:0H:269:LYS:HD3	1:0H:309:ASN:HA	2.00	0.43
1:0W:198:THR:HG22	1:0W:200:GLU:N	2.34	0.43
1:0W:307:GLY:HA2	1:0W:310:ARG:HD3	1.99	0.43
1:0A:28:ALA:O	1:0A:34:ILE:HD11	2.19	0.43
1:0B:50:LEU:HD12	1:0B:58:GLN:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0B:198:THR:HG22	1:0B:200:GLU:H	1.82	0.43
1:0C:65:LEU:HD21	1:0C:79:VAL:HG13	2.01	0.43
1:0C:236:ILE:HG22	1:0C:243:LEU:HB3	2.00	0.43
1:0E:175:CYS:HB2	1:0E:187:ALA:HB2	2.00	0.43
1:0F:169:VAL:O	1:0F:173:VAL:HG23	2.18	0.43
1:0M:37:LEU:HB3	1:0M:42:ALA:HB3	1.99	0.43
1:0N:164:VAL:O	1:0N:167:GLY:HA2	2.17	0.43
1:0O:170:PRO:O	1:0O:174:LEU:HD23	2.19	0.43
1:0P:92:LEU:HD12	1:0P:129:SER:OG	2.19	0.43
1:0P:148:THR:OG1	1:0P:149:LEU:N	2.51	0.43
1:0P:164:VAL:HG21	1:0P:201:LEU:HD22	2.01	0.43
1:0P:269:LYS:HD3	1:0P:309:ASN:HA	2.01	0.43
1:0R:231:CYS:O	1:0R:235:GLN:HG2	2.19	0.43
1:0R:253:PHE:HA	1:0R:256:ILE:HB	2.00	0.43
1:0S:251:GLU:OE2	1:0S:254:PRO:HD3	2.18	0.43
1:0T:37:LEU:HD12	1:0T:68:LEU:HD21	2.00	0.43
1:0T:347:GLU:OE2	1:0T:353:LYS:HA	2.19	0.43
1:0U:83:GLU:O	1:0U:86:PRO:HD2	2.19	0.43
1:0U:85:LEU:HD23	1:0U:88:LEU:HD12	2.00	0.43
1:0X:257:LEU:HD21	1:0X:294:GLY:HA2	2.01	0.43
1:0Y:213:TYR:O	1:0Y:216:PRO:HD2	2.18	0.43
1:0Y:367:THR:CB	1:0Y:370:HIS:CD2	3.01	0.43
1:0Z:30:ASN:O	1:0Z:34:ILE:HG13	2.18	0.43
1:0Z:350:ASP:CA	1:0Z:353:LYS:HG3	2.46	0.43
1:1A:98:PHE:HD2	5:1L:595:GLU:O	2.01	0.43
1:1B:180:GLU:O	1:1B:184:LYS:HG3	2.19	0.43
1:1C:85:LEU:HD23	1:1C:88:LEU:HD12	2.00	0.43
2:1E:236:VAL:CG1	2:1E:253:ALA:HB1	2.48	0.43
3:1H:1005:PRO:CG	47:6A:402:MET:SD	3.03	0.43
4:1J:132:SER:O	4:1J:158:VAL:HA	2.18	0.43
4:1J:322:SER:HA	4:1J:385:GLN:O	2.18	0.43
4:1K:212:LYS:HA	4:1K:254:VAL:O	2.19	0.43
5:1L:518:LEU:HD21	13:1b:189:LEU:HD13	2.00	0.43
6:1N:394:LEU:HD22	6:1N:406:VAL:HG22	2.01	0.43
6:1N:410:HIS:HB3	6:1N:447:LEU:HD11	1.99	0.43
6:1N:626:ASP:OD1	6:1N:627:GLU:N	2.52	0.43
6:1N:2540:LEU:HG	6:1N:2619:THR:HG23	2.01	0.43
7:1O:1018:LEU:HD23	7:1O:1020:ALA:O	2.19	0.43
7:1O:1839:LEU:HD11	7:1O:1925:MET:HB3	2.01	0.43
7:1O:2852:ARG:HB2	7:1O:3019:ASP:OD1	2.19	0.43
10:1R:414:ASP:O	13:Bb:287:SER:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1S:424:THR:H	10:1S:424:THR:HG23	1.52	0.43
10:1S:432:THR:HB	12:Ae:83:GLN:CD	2.42	0.43
10:1S:441:HIS:CE1	12:Be:279:GLN:HE22	2.36	0.43
13:1b:182:VAL:HG22	12:1c:256:ASN:OD1	2.18	0.43
12:1e:139:LEU:O	12:1e:171:PRO:HD3	2.19	0.43
12:1e:151:LEU:O	12:1e:155:ILE:HG12	2.19	0.43
12:1e:278:SER:O	12:1e:278:SER:OG	2.26	0.43
12:1g:378:PHE:HD1	12:1g:415:MET:HE3	1.84	0.43
24:2U:158:VAL:O	24:2U:162:MET:HG2	2.19	0.43
12:2a:21:TRP:CZ2	12:2a:63:ALA:HB2	2.54	0.43
13:2d:301:MET:HE1	13:2d:377:MET:HE1	2.00	0.43
12:2e:21:TRP:CZ2	12:2e:63:ALA:HB2	2.54	0.43
12:2e:127:CYS:SG	12:2e:128:ASP:N	2.91	0.43
12:2g:317:PHE:HB3	12:2g:321:MET:CE	2.44	0.43
30:3F:328:ILE:O	30:3F:328:ILE:CG1	2.66	0.43
30:3G:666:VAL:HG13	13:7d:433:GLU:CD	2.43	0.43
32:3J:366:LYS:O	12:9a:426:GLN:NE2	2.52	0.43
34:3N:68:LEU:HD23	34:3N:426:LEU:HD23	2.01	0.43
34:3N:401:VAL:HA	34:3N:404:HIS:ND1	2.34	0.43
34:3P:124:ARG:HH22	34:3P:125:ARG:HB2	1.84	0.43
34:3Q:253:ALA:HA	34:3Q:256:GLU:HG3	2.01	0.43
34:3Q:386:HIS:O	34:3Q:390:LEU:HD13	2.18	0.43
34:3R:327:VAL:HG11	34:3R:404:HIS:HB2	2.01	0.43
34:3R:480:ALA:O	34:3R:484:GLU:HG3	2.19	0.43
34:3S:68:LEU:HA	34:3S:71:LEU:HD12	2.00	0.43
34:3S:456:LEU:HA	34:3S:459:ILE:HG22	2.00	0.43
34:3T:323:ALA:O	34:3T:327:VAL:HG23	2.19	0.43
34:3U:280:TRP:HB2	34:3U:452:HIS:CD2	2.53	0.43
34:3V:222:LEU:HG	34:3Z:77:GLN:OE1	2.19	0.43
34:3X:77:GLN:OE1	34:4A:222:LEU:HG	2.19	0.43
34:3Y:352:LEU:HD12	34:3Y:382:LEU:HD11	2.01	0.43
34:3Z:338:LEU:C	34:3Z:342:GLN:HE22	2.27	0.43
13:3b:222:PRO:O	12:3c:324:LYS:HB3	2.19	0.43
13:3b:406:HIS:CG	12:3c:261:PRO:HD3	2.53	0.43
13:3d:217:LEU:HG	13:3d:277:SER:HB3	2.01	0.43
13:3d:246:GLY:N	13:3d:249:ASN:OD1	2.43	0.43
12:3e:139:LEU:O	12:3e:171:PRO:HD3	2.18	0.43
12:3e:208:TYR:HA	12:3e:211:CYS:HG	1.84	0.43
12:3g:193:VAL:HG13	12:3g:262:ARG:HB2	1.99	0.43
13:3h:246:GLY:N	13:3h:249:ASN:OD1	2.43	0.43
34:4A:352:LEU:O	34:4A:355:SER:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4B:372:GLN:O	34:4B:376:THR:HG23	2.19	0.43
35:4C:833:ALA:HB1	35:4C:856:ARG:O	2.17	0.43
35:4C:843:MET:HG3	35:4C:844:PRO:O	2.19	0.43
35:4C:843:MET:HE1	35:4C:849:ILE:HG12	2.00	0.43
35:4C:867:SER:CB	35:4C:885:ARG:HH11	2.32	0.43
36:4D:139:ARG:HH12	36:4D:140:ARG:HE	1.65	0.43
37:4E:583:GLU:N	43:5L:35:LYS:CA	2.77	0.43
37:4F:1138:VAL:HB	37:4F:1139:THR:H	1.44	0.43
37:4F:1322:ARG:HB3	38:4N:25:PRO:CG	2.37	0.43
37:4F:1630:ASP:OD2	37:4F:1631:GLY:N	2.51	0.43
37:4G:792:VAL:HG21	37:4G:798:MET:CG	2.49	0.43
37:4G:1136:ARG:CB	38:4L:33:LYS:CE	2.94	0.43
37:4G:1356:VAL:HG22	37:4G:1372:PRO:HD3	2.00	0.43
37:4H:542:ARG:CZ	38:4J:42:ILE:HD13	2.49	0.43
37:4H:856:MET:HA	38:4M:85:LEU:HB3	2.01	0.43
37:4H:1135:PHE:O	37:4H:1147:ALA:HB3	2.18	0.43
37:4H:1324:THR:OG1	38:4M:24:THR:CG2	2.65	0.43
37:4H:1722:ARG:O	37:4H:1723:TYR:HB3	2.19	0.43
38:4I:40:LYS:HZ2	38:4I:44:LEU:HB2	1.82	0.43
39:4R:135:GLU:HA	39:4R:138:LEU:CD2	2.48	0.43
39:4R:137:ASN:O	39:4R:141:GLU:HG2	2.19	0.43
39:4R:163:VAL:HG13	39:4R:205:ALA:HB2	2.00	0.43
40:4T:624:THR:O	40:4T:628:THR:HG23	2.18	0.43
40:4U:450:LEU:HD13	40:4U:456:LEU:HD21	2.00	0.43
40:4V:552:TYR:HA	40:4V:555:LEU:HG	2.01	0.43
40:4V:601:ALA:O	40:4V:605:PHE:HD1	2.01	0.43
12:4a:68:LEU:HD23	12:4a:143:THR:HG23	2.01	0.43
12:4e:113:ILE:CA	12:4e:116:VAL:HG12	2.42	0.43
13:4f:317:LEU:HB3	13:4f:319:TYR:CE1	2.53	0.43
41:5A:120:TYR:HA	43:5L:168:GLU:OE1	2.14	0.43
42:5E:135:ARG:CD	43:5I:57:HIS:NE2	2.79	0.43
42:5G:142:HIS:O	42:5G:146:THR:HG22	2.18	0.43
42:5H:136:HIS:NE2	43:5L:50:ILE:HG22	2.34	0.43
42:5H:137:TYR:CG	43:5L:46:PRO:N	2.84	0.43
43:5I:4:ASN:HB3	43:5I:116:VAL:HG22	1.99	0.43
43:5J:53:ASP:HA	43:5J:56:VAL:HB	2.01	0.43
43:5J:54:LEU:O	43:5J:58:THR:HG23	2.18	0.43
43:5J:163:VAL:O	43:5J:165:LEU:HB3	2.18	0.43
43:5K:143:MET:SD	43:5K:147:THR:HG21	2.59	0.43
43:5L:143:MET:SD	43:5L:147:THR:HG21	2.59	0.43
45:5W:86:UNK:O	45:5W:87:UNK:C	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5b:206:ASN:OD1	54:5c:501:GTP:N2	2.49	0.43
12:5c:27:GLU:OE2	12:5c:318:ARG:NH2	2.40	0.43
12:5c:391:ARG:NH2	13:5d:438:GLU:O	2.43	0.43
13:5d:301:MET:HE1	13:5d:377:MET:HE1	2.00	0.43
13:5f:68:LEU:HD12	13:5f:93:ILE:HB	1.99	0.43
13:5f:406:HIS:CE1	12:5g:261:PRO:HD3	2.54	0.43
12:5g:39:ASP:OD1	12:5g:40:SER:N	2.52	0.43
47:6A:562:HIS:HD2	47:6A:807:ALA:HB2	1.82	0.43
47:6A:1072:GLU:HG3	47:6A:1076:ARG:HH21	1.83	0.43
47:6B:200:GLN:HA	47:6B:203:THR:OG1	2.18	0.43
47:6B:201:ARG:HD2	12:Bg:107:THR:HG22	2.01	0.43
47:6B:290:GLY:O	3:6D:196:THR:HG23	2.18	0.43
47:6B:877:SER:HB2	48:6E:60:GLY:CA	2.49	0.43
47:6B:1360:MET:HE3	47:6B:1364:VAL:HG23	2.00	0.43
47:6B:1520:ASP:OD1	47:6B:1520:ASP:N	2.51	0.43
48:6E:895:MET:N	48:6E:928:THR:O	2.51	0.43
48:6F:952:LEU:CD1	48:6F:953:PRO:HD2	2.46	0.43
49:6G:136:MET:HG2	49:6G:136:MET:H	1.55	0.43
49:6H:95:ASP:HA	49:6H:108:LYS:NZ	2.33	0.43
49:6I:113:ILE:HG12	49:6I:117:ILE:HD12	2.01	0.43
50:6K:8:ILE:HD13	50:6K:133:ALA:HB1	2.00	0.43
50:6K:321:ASP:HB2	50:6K:322:PRO:HD3	2.01	0.43
50:6L:8:ILE:HD13	50:6L:133:ALA:HB1	1.99	0.43
50:6L:77:ARG:HH12	50:6L:158:GLN:CD	2.27	0.43
51:6M:1267:VAL:HG22	51:6M:1309:ARG:HG2	2.00	0.43
51:6N:1245:GLY:HA3	51:6N:1355:LEU:HD13	2.00	0.43
12:6c:145:SER:HB2	12:6c:188:SER:OG	2.18	0.43
12:6c:229:ILE:O	12:6c:233:MET:HG3	2.19	0.43
13:6h:301:MET:HE1	13:6h:377:MET:HE1	2.00	0.43
12:7a:271:THR:OG1	12:7a:365:ALA:HB3	2.18	0.43
13:7h:273:ALA:N	13:7h:375:VAL:O	2.48	0.43
12:8a:3:GLU:HB3	12:8a:62:ARG:HH21	1.83	0.43
12:8a:12:CYS:O	12:8a:16:ILE:HG22	2.18	0.43
12:8c:229:ILE:O	12:8c:233:MET:HG3	2.19	0.43
12:8c:236:ILE:HG12	12:8c:368:ILE:HD11	2.01	0.43
13:8f:147:SER:HB2	13:8f:190:SER:HB3	2.01	0.43
12:9a:151:LEU:O	12:9a:155:ILE:HG12	2.18	0.43
13:9b:217:LEU:HG	13:9b:277:SER:HB3	2.01	0.43
13:9b:301:MET:HE1	13:9b:377:MET:HE1	2.01	0.43
12:Aa:377:MET:HE2	12:Aa:377:MET:HB2	1.59	0.43
13:Ad:224:TYR:CD2	12:Ae:245:GLN:HG2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ag:179:VAL:O	12:Ag:388:MET:HE1	2.18	0.43
12:Ba:185:ALA:O	12:Ba:189:VAL:HG23	2.18	0.43
13:Bf:217:LEU:HG	13:Bf:277:SER:HB3	2.01	0.43
13:Bh:217:LEU:HG	13:Bh:277:SER:HB3	2.01	0.43
13:Bh:273:ALA:N	13:Bh:375:VAL:O	2.48	0.43
13:Cf:175:PRO:O	13:Cf:394:LYS:NZ	2.46	0.43
13:Cf:301:MET:HE1	13:Cf:377:MET:HE1	2.00	0.43
13:Ch:301:MET:HE1	13:Ch:377:MET:HE1	2.00	0.43
12:Da:185:ALA:O	12:Da:189:VAL:HG23	2.19	0.43
12:Dc:229:ILE:O	12:Dc:233:MET:HG3	2.18	0.43
13:Df:147:SER:HB2	13:Df:190:SER:HB3	2.01	0.43
13:Dh:206:ASN:OD1	54:Dh:501:GTP:N2	2.49	0.43
1:0H:218:VAL:HG22	1:0H:229:VAL:CG2	2.49	0.43
1:0H:306:ALA:HB3	1:0H:309:ASN:ND2	2.34	0.43
1:0J:271:SER:O	1:0J:275:VAL:HG23	2.19	0.43
1:0W:213:TYR:O	1:0W:216:PRO:HD2	2.19	0.43
1:0K:233:LEU:HD13	1:0K:252:ILE:HD12	2.00	0.43
1:0A:371:ALA:HB1	1:0A:407:VAL:HA	2.01	0.43
1:0B:18:VAL:HG22	1:0B:57:ILE:HG12	2.01	0.43
1:0B:407:VAL:CG1	1:0B:411:LEU:HD22	2.48	0.43
1:0D:21:VAL:O	1:0D:24:VAL:HG12	2.19	0.43
1:0D:56:SER:O	1:0D:59:GLN:HG2	2.19	0.43
1:0F:254:PRO:O	1:0F:258:THR:HG23	2.19	0.43
1:0F:417:LEU:O	1:0F:421:VAL:HG23	2.19	0.43
1:0N:365:ARG:HG3	1:0N:406:SER:HB3	2.00	0.43
1:0O:24:VAL:HG11	1:0O:46:LEU:HD21	2.01	0.43
1:0R:47:ARG:CG	1:0R:84:ILE:HG12	2.49	0.43
1:0R:280:LYS:HB2	47:6B:277:PHE:HB2	2.00	0.43
1:0R:371:ALA:HB1	1:0R:407:VAL:HA	2.01	0.43
1:0T:168:ALA:O	1:0T:172:LEU:HG	2.19	0.43
1:0T:185:ARG:HH11	1:0T:224:LYS:HG2	1.84	0.43
1:0T:193:ASP:O	1:0T:197:HIS:HD2	2.02	0.43
1:0X:108:ARG:CZ	1:0X:147:TRP:CE3	2.98	0.43
1:0Y:23:ALA:O	1:0Y:27:MET:HG2	2.18	0.43
1:0Y:231:CYS:O	1:0Y:235:GLN:HG2	2.18	0.43
1:0Y:372:LYS:HA	1:0Y:411:LEU:CD1	2.49	0.43
1:0Z:91:SER:HB2	1:0Z:103:ALA:HB2	2.01	0.43
1:0Z:182:SER:HA	1:0Z:185:ARG:CD	2.48	0.43
1:1B:358:TRP:CA	1:1B:399:LYS:HD2	2.48	0.43
2:1E:112:MET:HG2	2:1E:153:GLN:NE2	2.34	0.43
2:1F:60:ASP:C	2:1F:62:LEU:H	2.23	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1F:183:ILE:O	2:1F:188:LEU:HD22	2.19	0.43
2:1G:173:ILE:HD12	2:1G:216:THR:HG22	2.00	0.43
3:1H:951:TYR:HD1	3:1H:976:VAL:O	2.01	0.43
4:1J:81:PRO:HB2	4:1J:84:GLU:HG3	2.01	0.43
4:1J:104:THR:HG22	4:1J:161:LYS:HE3	2.01	0.43
4:1J:245:SER:HB2	4:1J:246:PRO:HD2	2.00	0.43
4:1K:81:PRO:HB2	4:1K:84:GLU:HG3	2.01	0.43
4:1K:245:SER:HB2	4:1K:246:PRO:HD2	2.00	0.43
4:1K:322:SER:HA	4:1K:385:GLN:O	2.18	0.43
5:1L:131:GLN:HA	5:1L:169:ASP:HA	2.01	0.43
5:1M:131:GLN:HA	5:1M:169:ASP:HA	2.01	0.43
6:1N:732:LEU:HD12	6:1N:732:LEU:N	2.33	0.43
6:1N:1716:LEU:HD13	6:1N:1754:CYS:SG	2.59	0.43
7:1O:1339:SER:OG	7:1O:1340:GLN:N	2.52	0.43
7:1O:1483:GLN:OE1	44:5V:118:GLU:HB2	2.19	0.43
7:1O:2878:LEU:HD12	7:1O:2961:PHE:CZ	2.54	0.43
9:1Q:732:SER:O	9:1Q:733:THR:O	2.37	0.43
10:1R:255:LEU:C	10:1R:256:LYS:HD2	2.44	0.43
12:1a:13:GLY:HA2	12:1a:16:ILE:HG22	2.01	0.43
12:1a:52:ASN:O	12:1a:60:VAL:HG22	2.19	0.43
12:1c:284:LEU:HG	12:1c:363:MET:HE3	2.00	0.43
13:1d:317:LEU:HB3	13:1d:319:TYR:CE1	2.53	0.43
14:2F:147:ILE:HD13	12:Aa:75:SER:HA	2.00	0.43
14:2F:161:VAL:CG2	12:Aa:228:LEU:HG	2.49	0.43
14:2G:147:ILE:HD12	12:Ae:78:SER:HB2	2.01	0.43
17:2J:69:UNK:O	17:2J:70:UNK:C	2.65	0.43
24:2S:128:VAL:O	12:Dc:335:ASN:ND2	2.47	0.43
24:2T:183:GLU:O	24:2T:186:ARG:HB2	2.18	0.43
12:2a:245:GLN:N	12:2a:355:ASP:OD2	2.52	0.43
13:2b:68:LEU:HD12	13:2b:93:ILE:HB	1.99	0.43
13:2b:174:SER:OG	13:2b:175:PRO:HD2	2.19	0.43
54:2b:501:GTP:C8	12:2c:246:LEU:HD13	2.54	0.43
13:2d:174:SER:OG	13:2d:175:PRO:HD2	2.19	0.43
13:2d:206:ASN:OD1	54:2d:501:GTP:N2	2.49	0.43
13:2f:68:LEU:HD12	13:2f:93:ILE:HB	1.99	0.43
13:2f:104:ALA:HB2	13:2f:413:MET:HB2	2.01	0.43
12:2g:229:ILE:O	12:2g:233:MET:HG3	2.18	0.43
13:2h:174:SER:OG	13:2h:175:PRO:HD2	2.19	0.43
29:3E:1150:TYR:HD2	12:5e:409:THR:HG22	1.82	0.43
30:3F:307:ASN:O	30:3F:311:ILE:HD12	2.19	0.43
31:3I:149:VAL:HA	31:3I:152:GLU:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:3J:147:PHE:HE2	32:3J:168:LEU:HD21	1.83	0.43
32:3K:44:LEU:HD23	32:3K:70:ASN:HA	2.01	0.43
33:3L:178:LYS:HG2	12:6e:118:ASP:CG	2.43	0.43
34:3N:378:SER:O	34:3N:382:LEU:HG	2.18	0.43
34:3N:481:LEU:HA	34:3N:484:GLU:CG	2.49	0.43
34:3P:363:SER:HA	34:3P:368:LEU:HD11	2.00	0.43
34:3P:381:ASN:HA	34:3P:384:ASN:HD21	1.83	0.43
34:3Q:362:PRO:O	34:3Q:367:GLY:HA3	2.18	0.43
34:3R:461:ALA:O	34:3R:464:LEU:HG	2.18	0.43
34:3S:61:HIS:HE1	34:3S:434:ASP:OD2	2.01	0.43
34:3U:89:ILE:O	34:3U:93:VAL:HG23	2.19	0.43
34:3U:475:MET:SD	34:3U:476:GLY:N	2.92	0.43
34:3X:254:MET:HG2	34:3X:481:LEU:CD1	2.48	0.43
34:3Y:461:ALA:O	34:3Y:464:LEU:HG	2.18	0.43
34:3Y:492:LEU:HD21	34:4A:252:GLU:OE2	2.19	0.43
13:3f:217:LEU:HG	13:3f:277:SER:HB3	2.01	0.43
12:3g:232:VAL:HG22	12:3g:270:PHE:HB2	2.00	0.43
13:3h:317:LEU:HB3	13:3h:319:TYR:CE1	2.53	0.43
34:4A:252:GLU:O	34:4A:256:GLU:HG3	2.18	0.43
34:4B:363:SER:O	34:4B:363:SER:OG	2.33	0.43
35:4C:1088:GLN:NE2	35:4C:1108:CYS:SG	2.92	0.43
36:4D:52:LEU:HD12	36:4D:162:ILE:HG12	2.00	0.43
36:4D:222:TYR:CD1	36:4D:222:TYR:N	2.86	0.43
37:4E:542:ARG:NE	42:5H:111:GLY:O	2.52	0.43
37:4E:1349:THR:HG22	37:4E:1359:SER:HB2	2.00	0.43
37:4E:1356:VAL:HA	37:4E:1370:THR:O	2.19	0.43
37:4E:1469:GLU:HG3	37:4E:1472:ARG:NH1	2.34	0.43
37:4F:542:ARG:CD	38:4K:42:ILE:HG21	2.48	0.43
37:4F:1162:VAL:CB	37:4F:1299:ARG:HH12	2.32	0.43
37:4F:1349:THR:CG2	37:4F:1350:ILE:N	2.81	0.43
37:4G:1323:ILE:HA	38:4L:26:GLU:HG2	1.93	0.43
37:4H:588:PRO:HA	37:4H:589:PRO:HD3	1.96	0.43
37:4H:885:MET:HE3	37:4H:917:PRO:O	2.19	0.43
37:4H:1305:VAL:HG12	37:4H:1315:VAL:HB	2.01	0.43
37:4H:1334:GLU:CB	37:4H:1340:PRO:HA	2.41	0.43
37:4H:1356:VAL:HG22	37:4H:1372:PRO:HD3	2.00	0.43
37:4H:1734:PHE:HD2	37:4H:1736:ARG:HH11	1.64	0.43
38:4L:39:HIS:C	38:4L:41:LYS:N	2.74	0.43
39:4S:65:ARG:HD2	44:5R:46:ASN:O	2.18	0.43
40:4T:259:THR:N	40:4T:262:GLN:HE21	2.11	0.43
40:4T:552:TYR:HA	40:4T:555:LEU:HG	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:4U:332:SER:HA	40:4U:335:VAL:HG12	1.99	0.43
40:4U:440:CYS:HB3	40:4U:467:ALA:H	1.83	0.43
40:4V:66:ASN:HA	44:5T:68:ASP:OD1	2.18	0.43
40:4V:692:ARG:O	40:4V:692:ARG:HG3	2.19	0.43
13:4b:147:SER:HB2	13:4b:190:SER:HB3	2.01	0.43
12:4c:107:THR:OG1	12:4c:108:GLU:N	2.52	0.43
12:4e:68:LEU:HD23	12:4e:143:THR:HG23	2.01	0.43
12:4e:286:VAL:O	12:4e:290:THR:HG23	2.19	0.43
42:5F:142:HIS:O	42:5F:146:THR:HG22	2.18	0.43
42:5G:32:LEU:HB3	42:5G:51:LEU:HD11	2.00	0.43
42:5H:90:ALA:HB1	43:5L:41:ASP:CG	2.43	0.43
42:5H:136:HIS:ND1	43:5L:51:HIS:N	2.67	0.43
43:5I:54:LEU:O	43:5I:58:THR:HG23	2.18	0.43
43:5I:158:HIS:C	43:5I:160:SER:N	2.75	0.43
43:5I:163:VAL:HG12	43:5I:165:LEU:CB	2.42	0.43
43:5I:163:VAL:O	43:5I:165:LEU:HB3	2.18	0.43
43:5J:166:ALA:HA	43:5J:167:PRO:HD3	1.78	0.43
43:5K:34:ALA:CB	43:5K:42:TYR:CZ	3.02	0.43
13:5b:147:SER:HB2	13:5b:190:SER:HB3	2.01	0.43
13:5b:210:TYR:CG	12:5c:324:LYS:HD3	2.54	0.43
12:5e:172:SER:HB2	12:5e:205:GLU:CD	2.44	0.43
13:5f:273:ALA:N	13:5f:375:VAL:O	2.48	0.43
47:6A:157:ARG:HH11	47:6A:157:ARG:HD2	1.56	0.43
47:6A:698:LEU:HB3	48:6F:70:TYR:CE2	2.54	0.43
47:6A:1323:GLU:N	47:6A:1324:PRO:HD2	2.34	0.43
47:6A:1661:LEU:HB3	47:6A:1765:ARG:HB2	2.01	0.43
47:6B:29:PHE:HD1	47:6B:49:THR:CG2	2.32	0.43
47:6B:289:GLN:C	3:6D:197:SER:HB3	2.44	0.43
47:6B:392:LEU:HD11	3:6D:983:ARG:HH21	1.82	0.43
47:6B:901:LEU:HD13	47:6B:904:PHE:HZ	1.84	0.43
47:6B:1221:PHE:HE2	47:6B:1502:CYS:HG	1.62	0.43
47:6B:1323:GLU:N	47:6B:1324:PRO:HD2	2.34	0.43
3:6D:890:ARG:HH22	3:6D:944:GLU:HG3	1.84	0.43
48:6E:282:LEU:HB3	48:6E:309:LEU:HD12	2.01	0.43
48:6F:483:GLN:OE1	48:6F:615:ASN:ND2	2.51	0.43
48:6F:691:ASN:OD1	48:6F:825:VAL:HG12	2.18	0.43
48:6F:874:LEU:CD1	48:6F:921:VAL:HG11	2.46	0.43
48:6F:916:SER:O	48:6F:917:THR:OG1	2.32	0.43
49:6H:18:GLU:CD	49:6H:42:LEU:HD11	2.43	0.43
49:6I:18:GLU:CD	49:6I:42:LEU:HD11	2.43	0.43
49:6I:366:VAL:HG23	49:6I:368:ASN:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6J:366:VAL:HG23	49:6J:368:ASN:HB2	2.01	0.43
50:6K:105:ILE:HD11	50:6K:116:PHE:HB2	2.01	0.43
50:6K:403:THR:HG22	50:6K:424:THR:H	1.83	0.43
50:6L:473:ALA:HB3	50:6L:478:PRO:HD3	1.99	0.43
51:6M:2164:LEU:CD2	51:6M:2291:PRO:HB3	2.48	0.43
51:6N:2104:GLU:OE2	51:6N:2105:GLU:N	2.48	0.43
13:6b:301:MET:HE1	13:6b:377:MET:HE1	2.00	0.43
12:6c:27:GLU:OE2	12:6c:318:ARG:NH2	2.39	0.43
12:6c:99:ASN:HA	12:6c:142:GLY:H	1.84	0.43
13:6f:301:MET:HE1	13:6f:377:MET:HE1	2.01	0.43
12:6g:174:LYS:HG3	12:6g:175:VAL:HG23	2.00	0.43
12:6g:229:ILE:O	12:6g:233:MET:HG3	2.19	0.43
12:7a:406:MET:HE3	12:7a:406:MET:HB3	1.91	0.43
12:7c:151:LEU:O	12:7c:155:ILE:HG12	2.19	0.43
12:7c:207:LEU:HD21	12:7c:300:MET:HB3	2.01	0.43
12:7e:210:ILE:HG22	12:7e:297:LYS:O	2.18	0.43
12:7e:284:LEU:HB2	12:7e:362:LYS:HZ2	1.82	0.43
12:7g:139:LEU:HD22	12:7g:188:SER:HB2	2.00	0.43
12:8e:139:LEU:O	12:8e:171:PRO:HD3	2.18	0.43
12:8g:139:LEU:HD22	12:8g:188:SER:HB2	2.00	0.43
12:9c:179:VAL:O	12:9c:388:MET:HE1	2.19	0.43
12:9g:95:THR:HG23	12:9g:108:GLU:OE1	2.18	0.43
12:9g:120:VAL:HG11	12:9g:155:ILE:HD11	1.99	0.43
12:Ac:284:LEU:HD23	12:Ac:362:LYS:HD3	2.01	0.43
12:Ag:107:THR:OG1	12:Ag:108:GLU:N	2.52	0.43
12:Ba:71:GLY:HA3	13:Bb:245:ASP:OD2	2.18	0.43
12:Ba:74:ASP:CA	12:Ba:77:ARG:HH21	2.30	0.43
12:Ba:99:ASN:N	13:Bb:254:GLU:HG2	2.34	0.43
13:Bd:222:PRO:O	12:Be:322:SER:HB2	2.19	0.43
13:Cb:90:GLU:OE1	13:Cb:121:ARG:NE	2.44	0.43
12:Cc:316:LEU:HA	12:Cc:352:SER:OG	2.19	0.43
12:Cg:330:MET:SD	12:Cg:349:VAL:HG11	2.59	0.43
13:Ch:174:SER:OG	13:Ch:175:PRO:HD2	2.19	0.43
13:Db:317:LEU:HB3	13:Db:319:TYR:CE1	2.53	0.43
12:Dc:107:THR:OG1	12:Dc:108:GLU:N	2.52	0.43
12:De:284:LEU:HG	12:De:363:MET:CE	2.49	0.43
13:Dh:107:HIS:O	13:Dh:112:LYS:NZ	2.41	0.43
1:0J:180:GLU:O	1:0J:184:LYS:HG3	2.19	0.43
1:0K:181:LEU:O	1:0K:185:ARG:HG2	2.18	0.43
1:0K:311:LEU:CD1	1:0K:351:HIS:CD2	3.01	0.43
1:0K:421:VAL:HG22	1:0K:432:MET:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0A:47:ARG:NH2	47:6B:117:LEU:HD13	2.34	0.43
1:0A:315:MET:HE3	1:0A:315:MET:HB3	1.75	0.43
1:0B:260:LEU:HD22	1:0B:297:ALA:HB1	2.00	0.43
1:0B:275:VAL:HG13	1:0B:289:VAL:HG11	2.00	0.43
1:0E:83:GLU:C	1:0E:86:PRO:HD2	2.44	0.43
1:0F:226:LYS:HE3	1:0F:259:CYS:SG	2.59	0.43
1:0F:336:ALA:O	1:0F:340:LEU:HG	2.19	0.43
1:0G:169:VAL:O	1:0G:173:VAL:HG23	2.18	0.43
1:0G:328:ALA:HA	1:0G:331:VAL:HG12	2.01	0.43
1:0M:87:GLN:HA	1:0M:90:TYR:CD2	2.53	0.43
1:0N:94:GLU:HB2	1:0N:99:TYR:CD2	2.54	0.43
1:0O:398:THR:O	1:0O:402:ARG:HG3	2.18	0.43
1:0Q:338:PRO:HB2	1:0Q:339:PRO:HD3	2.01	0.43
1:0Q:359:THR:HA	1:0Q:362:GLN:OE1	2.18	0.43
1:0R:15:LYS:HA	1:0R:18:VAL:HG22	2.01	0.43
1:0R:127:LEU:CD2	1:0R:163:VAL:HA	2.44	0.43
1:0R:319:TYR:HE1	1:0R:358:TRP:CH2	2.36	0.43
1:0R:359:THR:O	1:0R:363:ILE:HG13	2.18	0.43
1:0R:392:SER:O	1:0R:392:SER:OG	2.37	0.43
1:0T:127:LEU:CD1	1:0T:163:VAL:HG12	2.49	0.43
1:0T:160:ALA:O	1:0T:163:VAL:HG22	2.19	0.43
1:0T:338:PRO:HB2	1:0T:339:PRO:HD3	2.01	0.43
1:0U:127:LEU:HD12	1:0U:130:LEU:HD12	2.01	0.43
1:0U:224:LYS:HE2	5:1M:588:ARG:HG3	2.00	0.43
1:0Z:128:ASP:OD2	1:0Z:129:SER:N	2.51	0.43
1:0Z:335:LYS:HE2	1:0Z:338:PRO:HB2	2.01	0.43
1:0Z:371:ALA:HB1	1:0Z:407:VAL:HA	2.01	0.43
1:1A:290:VAL:HA	1:1A:295:VAL:HG22	1.99	0.43
1:1B:122:ILE:HD11	1:1B:152:ILE:HD13	2.01	0.43
1:1B:253:PHE:HA	1:1B:256:ILE:CD1	2.48	0.43
1:1B:347:GLU:OE1	1:1B:353:LYS:CA	2.67	0.43
1:1C:12:ARG:O	1:1C:16:GLU:HG2	2.19	0.43
2:1D:60:ASP:C	2:1D:62:LEU:H	2.25	0.43
2:1D:352:PRO:O	2:1D:356:LYS:HG3	2.19	0.43
2:1E:352:PRO:O	2:1E:356:LYS:HG3	2.19	0.43
3:1H:526:ASP:CG	47:6A:350:ARG:NH2	2.77	0.43
3:1H:683:ARG:HH11	3:1H:683:ARG:HD2	1.61	0.43
3:1H:839:ASN:HB2	3:1H:842:HIS:CD2	2.54	0.43
3:1H:897:GLY:HA3	3:1H:1032:LEU:HD11	2.01	0.43
3:1H:934:LEU:HD22	3:1H:938:LEU:HD11	2.01	0.43
3:1I:944:GLU:HA	3:1I:947:LEU:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1J:260:SER:HA	4:1J:290:GLU:OE1	2.19	0.43
4:1K:104:THR:HG22	4:1K:161:LYS:HE3	2.01	0.43
5:1L:60:ALA:HB1	12:Dc:421:GLU:OE1	2.19	0.43
5:1M:541:LEU:HD11	13:1f:163:LYS:CE	2.46	0.43
6:1N:2719:LEU:HA	6:1N:2719:LEU:HD23	1.76	0.43
7:1O:1366:ARG:NH2	7:1O:1512:ARG:NH2	2.67	0.43
10:1R:80:GLU:HG2	10:1R:81:LEU:N	2.34	0.43
10:1R:396:GLU:HB3	10:1R:397:PRO:HD3	1.99	0.43
10:1S:155:THR:HG22	13:9f:97:GLU:HG2	2.00	0.43
12:1a:21:TRP:CZ2	12:1a:63:ALA:HB2	2.54	0.43
12:1a:207:LEU:HD23	12:1a:210:ILE:HD11	2.01	0.43
12:1a:330:MET:SD	12:1a:349:VAL:HG21	2.58	0.43
12:1c:229:ILE:O	12:1c:233:MET:HG3	2.19	0.43
13:1h:317:LEU:HB3	13:1h:319:TYR:CE1	2.53	0.43
17:2J:76:UNK:O	13:Ab:80:THR:HA	2.18	0.43
24:2T:139:VAL:HG23	24:2T:143:SER:OG	2.19	0.43
24:2T:182:THR:O	24:2T:186:ARG:HG3	2.18	0.43
12:2a:3:GLU:HB3	12:2a:62:ARG:HH21	1.83	0.43
12:2a:68:LEU:HD23	12:2a:143:THR:HG23	2.00	0.43
13:2b:104:ALA:HB2	13:2b:413:MET:HB2	2.01	0.43
12:2e:396:HIS:ND1	13:2f:263:PRO:HG3	2.33	0.43
29:3E:1154:ARG:CZ	12:5e:386:THR:HA	2.49	0.43
29:3E:1157:ALA:O	29:3E:1161:ARG:HG3	2.19	0.43
30:3F:379:PHE:CZ	13:8f:340:THR:HA	2.54	0.43
30:3F:433:GLU:O	30:3F:434:ALA:C	2.62	0.43
30:3G:740:SER:O	30:3G:744:LEU:HG	2.17	0.43
33:3L:55:ASN:HB3	33:3L:57:LEU:HD13	2.00	0.43
34:3M:39:GLU:OE1	34:3M:39:GLU:HA	2.18	0.43
34:3O:42:LEU:HB2	34:3O:46:ARG:HH21	1.84	0.43
34:3O:280:TRP:HA	34:3O:283:THR:HG22	2.00	0.43
34:3O:435:SER:O	34:3O:439:PRO:HG2	2.18	0.43
34:3Q:37:ASN:O	34:3Q:41:THR:HG23	2.19	0.43
34:3R:96:HIS:O	34:3R:100:ILE:HG13	2.18	0.43
34:3R:251:LEU:HD22	34:3W:492:LEU:HD13	2.00	0.43
34:3T:258:TYR:HE1	34:3T:477:GLU:HG3	1.84	0.43
34:3U:251:LEU:HA	34:3U:251:LEU:HD12	1.74	0.43
34:3V:506:GLU:HB3	34:3X:270:ILE:HD11	2.00	0.43
34:3W:254:MET:HG3	34:3W:481:LEU:HD11	2.00	0.43
34:3X:255:HIS:O	34:3X:259:MET:HG2	2.19	0.43
34:3X:452:HIS:HA	34:3X:455:THR:OG1	2.19	0.43
13:3b:217:LEU:HG	13:3b:277:SER:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3d:423:GLU:HG2	39:4S:214:LEU:CD2	2.39	0.43
12:3e:377:MET:HE2	12:3e:377:MET:HB2	1.59	0.43
12:3g:189:VAL:HG21	12:3g:378:PHE:CE1	2.54	0.43
12:3g:229:ILE:O	12:3g:233:MET:HG3	2.19	0.43
34:4A:123:GLN:HG2	37:4F:1532:LEU:HB2	2.00	0.43
34:4A:342:GLN:HE22	34:4A:390:LEU:HD21	1.84	0.43
34:4B:359:ARG:HG2	34:4B:360:VAL:H	1.83	0.43
34:4B:419:LEU:HD12	34:4B:419:LEU:HA	1.83	0.43
36:4D:39:ALA:HA	36:4D:108:LYS:NZ	2.33	0.43
37:4E:588:PRO:N	43:5L:32:LEU:HB3	2.34	0.43
37:4E:732:ALA:HB3	37:4E:1801:GLN:NE2	2.34	0.43
37:4F:518:LEU:HG	37:4F:678:LEU:HD11	2.01	0.43
37:4F:585:VAL:HG23	37:4F:586:PHE:N	2.34	0.43
37:4F:586:PHE:CE1	43:5K:59:LEU:HD22	2.53	0.43
37:4F:1083:ILE:CG2	37:4F:1084:ARG:N	2.82	0.43
37:4F:1331:TRP:HD1	37:4F:1333:VAL:CG2	2.31	0.43
37:4F:1709:LEU:CD2	38:4N:28:VAL:HG22	2.49	0.43
37:4G:528:SER:CB	37:4G:530:PRO:HD2	2.48	0.43
37:4G:538:GLU:C	37:4G:540:VAL:N	2.75	0.43
37:4G:826:LEU:HD13	38:4L:82:TYR:CE1	2.54	0.43
37:4G:885:MET:HE3	37:4G:917:PRO:O	2.19	0.43
37:4H:432:SER:C	37:4H:434:TYR:N	2.77	0.43
37:4H:936:GLU:HB2	37:4H:1478:PRO:HD3	2.01	0.43
37:4H:1525:LEU:HD11	37:4H:1611:ILE:HG22	2.01	0.43
38:4L:25:PRO:O	38:4L:26:GLU:C	2.56	0.43
38:4L:63:GLN:OE1	38:4L:87:HIS:NE2	2.52	0.43
38:4M:30:ALA:HA	38:4M:33:LYS:HG2	2.01	0.43
38:4N:25:PRO:CA	38:4N:28:VAL:H	2.29	0.43
40:4T:440:CYS:HB3	40:4T:467:ALA:H	1.83	0.43
40:4T:450:LEU:HD13	40:4T:456:LEU:HD21	2.00	0.43
40:4T:648:SER:O	40:4T:649:ASP:O	2.36	0.43
40:4T:692:ARG:O	40:4T:692:ARG:HG3	2.19	0.43
40:4U:533:PRO:O	40:4U:610:LEU:HD21	2.19	0.43
40:4U:552:TYR:HA	40:4U:555:LEU:HG	2.01	0.43
40:4V:450:LEU:HD13	40:4V:456:LEU:HD21	2.01	0.43
41:4Z:149:TYR:O	41:4Z:157:TRP:N	2.49	0.43
12:4e:139:LEU:O	12:4e:171:PRO:HD3	2.19	0.43
42:5H:95:GLU:C	42:5H:98:PHE:HB3	2.43	0.43
43:5I:53:ASP:HA	43:5I:56:VAL:HB	2.01	0.43
43:5J:34:ALA:CB	43:5J:42:TYR:CZ	3.02	0.43
43:5J:113:PRO:CA	44:5T:112:VAL:HG22	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5K:52:LEU:HA	43:5K:52:LEU:HD12	1.84	0.43
43:5K:87:ILE:HG12	43:5K:146:TYR:HB2	2.01	0.43
44:5T:59:VAL:HG23	44:5T:71:GLU:HB3	2.01	0.43
12:5a:116:VAL:O	12:5a:120:VAL:HG12	2.18	0.43
13:5d:104:ALA:HB2	13:5d:413:MET:HB2	2.01	0.43
12:5e:26:ASP:O	12:5e:359:LYS:HD2	2.19	0.43
12:5e:176:SER:OG	13:5f:349:THR:HB	2.19	0.43
13:5f:104:ALA:HB2	13:5f:413:MET:HB2	2.01	0.43
12:5g:67:ASP:O	12:5g:92:PHE:HA	2.19	0.43
12:5g:165:LEU:HD11	12:5g:200:MET:HE2	2.01	0.43
47:6A:901:LEU:HD13	47:6A:904:PHE:HZ	1.84	0.43
47:6A:1603:SER:H	47:6A:1603:SER:HG	1.46	0.43
47:6B:350:ARG:NH1	3:6D:265:TRP:HE3	2.14	0.43
47:6B:1661:LEU:HB3	47:6B:1765:ARG:HB2	2.01	0.43
47:6B:1798:ASN:OD1	47:6B:1799:ASN:N	2.47	0.43
3:6D:88:SER:O	3:6D:141:TYR:HE1	2.02	0.43
3:6D:692:VAL:HG12	3:6D:695:THR:H	1.84	0.43
48:6E:83:ALA:HB1	48:6E:86:LEU:HD12	2.01	0.43
48:6E:790:VAL:HG22	48:6E:815:VAL:HG13	2.01	0.43
48:6E:970:VAL:HG12	48:6E:975:PRO:HB3	2.00	0.43
48:6E:995:VAL:CG2	48:6E:1045:PHE:HB2	2.47	0.43
48:6F:790:VAL:HG22	48:6F:815:VAL:HG13	2.01	0.43
48:6F:970:VAL:HG12	48:6F:975:PRO:HB3	2.00	0.43
49:6I:69:TYR:CD1	49:6I:74:MET:HG2	2.53	0.43
49:6J:69:TYR:CD1	49:6J:74:MET:HG2	2.53	0.43
49:6J:113:ILE:HG12	49:6J:117:ILE:HD12	2.01	0.43
50:6K:88:ILE:HD12	50:6K:95:VAL:HB	2.00	0.43
51:6N:1547:TYR:CD1	51:6N:2005:CYS:HB3	2.54	0.43
51:6N:2164:LEU:CD2	51:6N:2291:PRO:HB3	2.48	0.43
12:6a:377:MET:HB2	12:6a:377:MET:HE2	1.63	0.43
12:6e:100:ASN:ND2	12:6e:401:GLU:HG3	2.33	0.43
12:6g:327:ASP:OD1	12:6g:328:GLU:N	2.51	0.43
12:7a:170:VAL:HB	12:7a:203:ASP:OD1	2.18	0.43
12:7c:67:ASP:O	12:7c:92:PHE:HA	2.19	0.43
12:7c:398:TYR:HD2	12:7c:403:MET:HE1	1.84	0.43
13:7d:317:LEU:HB3	13:7d:319:TYR:CE1	2.53	0.43
13:7d:403:ALA:CB	12:7e:344:TRP:HZ3	2.31	0.43
12:7e:404:ASP:C	12:7e:406:MET:N	2.75	0.43
12:7g:165:LEU:HD11	12:7g:200:MET:HE2	2.01	0.43
12:8a:172:SER:HB2	12:8a:205:GLU:CG	2.49	0.43
13:8d:147:SER:HB2	13:8d:190:SER:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:8f:406:HIS:CG	12:8g:261:PRO:HD3	2.54	0.43
12:8g:87:PRO:HG2	12:9g:278:SER:HB3	2.00	0.43
12:9a:3:GLU:HB3	12:9a:62:ARG:HH21	1.83	0.43
12:9a:68:LEU:HD23	12:9a:143:THR:HG23	2.00	0.43
12:9e:113:ILE:HD13	12:9e:150:LEU:HG	2.01	0.43
12:9e:151:LEU:O	12:9e:155:ILE:HG12	2.19	0.43
12:9g:145:SER:HB2	12:9g:188:SER:OG	2.19	0.43
13:Ab:147:SER:HB2	13:Ab:190:SER:HB3	2.01	0.43
12:Ac:99:ASN:HA	12:Ac:142:GLY:H	1.84	0.43
12:Ae:71:GLY:HA3	13:Af:245:ASP:OD2	2.19	0.43
13:Af:147:SER:HB2	13:Af:190:SER:HB3	2.01	0.43
12:Ag:68:LEU:HB3	12:Ag:96:GLY:HA2	1.99	0.43
13:Ah:246:GLY:N	13:Ah:249:ASN:OD1	2.43	0.43
13:Ah:301:MET:HE1	13:Ah:377:MET:HE1	2.01	0.43
12:Ba:377:MET:HE2	12:Ba:377:MET:HB2	1.61	0.43
13:Bb:217:LEU:HG	13:Bb:277:SER:HB3	2.01	0.43
13:Bb:224:TYR:CD1	12:Bc:323:THR:HG21	2.54	0.43
13:Bd:104:ALA:HB2	13:Bd:413:MET:HB2	2.01	0.43
12:Ca:222:PHE:CE2	13:Cb:248:LEU:HG	2.53	0.43
12:Cc:171:PRO:HG2	12:Cc:185:ALA:HB2	2.00	0.43
13:Cd:174:SER:OG	13:Cd:175:PRO:HD2	2.19	0.43
12:Ce:208:TYR:CE1	12:Ce:225:LEU:HD11	2.53	0.43
13:Ch:217:LEU:HG	13:Ch:277:SER:HB3	2.01	0.43
12:Da:244:GLY:N	12:Da:247:ASN:HD21	2.17	0.43
13:Db:147:SER:HB2	13:Db:190:SER:HB3	2.01	0.43
12:De:18:ALA:HB2	12:De:76:VAL:HG23	2.01	0.43
12:Dg:48:ASN:O	12:Dg:62:ARG:NH2	2.42	0.43
12:Dg:107:THR:OG1	12:Dg:108:GLU:N	2.52	0.43
12:Dg:143:THR:OG1	53:Dg:501:GDP:O1B	2.36	0.43
1:0I:163:VAL:HG12	1:0I:168:ALA:HB2	2.00	0.43
1:0I:226:LYS:CD	1:0I:262:PHE:HE2	2.25	0.43
1:0I:344:LEU:HD21	1:0I:356:THR:OG1	2.19	0.43
1:0K:359:THR:O	1:0K:363:ILE:HG13	2.19	0.43
44:5P:51:GLU:O	44:5P:55:MET:HG2	2.19	0.43
1:0B:95:GLN:NE2	1:0B:99:TYR:CE2	2.87	0.42
1:0C:335:LYS:HE2	1:0C:338:PRO:HB2	2.01	0.42
1:0C:392:SER:O	1:0C:392:SER:OG	2.37	0.42
1:0D:299:VAL:HG21	1:0D:334:GLU:HB3	2.01	0.42
1:0E:329:LEU:HA	1:0E:370:HIS:CE1	2.54	0.42
1:0O:29:LYS:HD2	1:0O:29:LYS:HA	1.89	0.42
1:0O:213:TYR:O	1:0O:216:PRO:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0R:37:LEU:HG	1:0R:42:ALA:CB	2.49	0.42
1:0V:134:LEU:HA	1:0V:142:LYS:HA	2.01	0.42
1:0Y:28:ALA:O	1:0Y:34:ILE:HD11	2.19	0.42
1:0Y:396:LEU:HD23	1:0Y:396:LEU:HA	1.89	0.42
1:0Z:83:GLU:O	1:0Z:86:PRO:HD2	2.19	0.42
1:0Z:392:SER:O	1:0Z:392:SER:OG	2.36	0.42
1:1A:134:LEU:HG	1:1A:145:SER:OG	2.18	0.42
1:1A:299:VAL:HG21	1:1A:334:GLU:HB3	2.01	0.42
1:1B:94:GLU:CD	1:1B:99:TYR:HE2	2.27	0.42
1:1B:233:LEU:CD2	1:1B:252:ILE:HG13	2.43	0.42
1:1B:325:GLU:CD	1:1B:325:GLU:H	2.27	0.42
1:1C:127:LEU:CD1	1:1C:162:GLN:HG2	2.44	0.42
1:1C:163:VAL:HG12	1:1C:168:ALA:HB2	2.01	0.42
1:1C:359:THR:O	1:1C:363:ILE:HG13	2.19	0.42
2:1G:511:ARG:C	2:1G:513:GLU:H	2.26	0.42
4:1K:288:GLU:N	4:1K:317:ASN:HD22	2.17	0.42
5:1M:321:PRO:O	5:1M:323:GLN:N	2.51	0.42
5:1M:412:SER:H	5:1M:449:ILE:HD13	1.84	0.42
6:1N:152:TRP:CH2	8:1P:753:LEU:HD11	2.54	0.42
6:1N:330:VAL:HG22	6:1N:342:ALA:CB	2.49	0.42
6:1N:1182:ALA:HA	6:1N:1189:ASN:HD21	1.84	0.42
6:1N:1882:ALA:O	6:1N:1886:ARG:HG2	2.19	0.42
7:1O:895:LEU:O	7:1O:899:GLN:HG2	2.19	0.42
7:1O:1422:LEU:HD21	44:5V:95:VAL:HG11	2.01	0.42
7:1O:2090:HIS:CD2	8:1P:798:MET:HB3	2.53	0.42
8:1P:821:SER:OG	8:1P:824:PRO:HG2	2.19	0.42
10:1R:50:ILE:HD13	10:1R:99:THR:HG22	2.01	0.42
10:1R:116:THR:N	10:1R:117:PRO:HD2	2.34	0.42
10:1R:366:LYS:HE3	12:Bc:291:GLN:HG3	2.01	0.42
10:1S:406:ASN:ND2	12:Ae:115:SER:HB3	2.34	0.42
12:1a:139:LEU:O	12:1a:171:PRO:HD3	2.19	0.42
12:1g:68:LEU:HD21	12:1g:147:MET:SD	2.59	0.42
12:1g:384:GLN:NE2	13:1h:349:THR:HG22	2.34	0.42
24:2U:154:ASP:OD1	24:2U:156:LYS:N	2.51	0.42
12:2a:252:LYS:O	12:2a:255:VAL:HG12	2.19	0.42
12:2c:130:LEU:O	12:2c:162:ARG:NE	2.52	0.42
13:2d:52:PHE:HZ	13:2d:239:THR:HG21	1.84	0.42
13:2f:174:SER:OG	13:2f:175:PRO:HD2	2.19	0.42
13:2h:68:LEU:HD12	13:2h:93:ILE:HB	1.99	0.42
13:2h:104:ALA:HB2	13:2h:413:MET:HB2	2.01	0.42
30:3F:299:LEU:O	30:3F:303:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:3I:147:LEU:CD1	31:3I:175:ARG:HE	2.32	0.42
32:3J:352:ALA:HB1	12:9a:413:SER:C	2.44	0.42
34:3M:48:HIS:HE2	34:3M:288:MET:HE2	1.84	0.42
34:3M:56:TYR:HB3	34:3M:295:GLN:CD	2.44	0.42
34:3M:269:GLY:HA3	34:3M:463:HIS:CE1	2.54	0.42
34:3N:284:PHE:O	34:3N:288:MET:HG2	2.19	0.42
34:3N:312:TRP:CH2	34:3N:418:GLY:HA3	2.54	0.42
34:3N:439:PRO:O	34:3N:443:ARG:HG3	2.18	0.42
34:3Q:450:SER:HA	34:3Q:453:ARG:HD2	2.01	0.42
34:3R:95:ARG:HD2	34:4B:235:LEU:HG	2.00	0.42
34:3T:312:TRP:CH2	34:3T:418:GLY:HA3	2.54	0.42
34:3U:267:GLU:HA	34:3U:270:ILE:HD11	2.01	0.42
34:3V:189:PRO:O	34:3V:192:TYR:HE1	2.02	0.42
34:3W:74:LEU:HD23	34:3W:77:GLN:HB2	2.01	0.42
34:3W:359:ARG:HG2	34:3W:360:VAL:H	1.83	0.42
34:3Z:495:GLN:HA	34:3Z:498:LEU:CD2	2.49	0.42
13:3b:144:GLY:N	54:3c:501:GTP:O2G	2.52	0.42
12:3c:91:VAL:HG21	12:3c:116:VAL:HG22	2.01	0.42
13:3f:144:GLY:N	54:3f:501:GTP:O2G	2.52	0.42
12:3g:290:THR:HG21	12:3g:329:GLN:HB3	2.00	0.42
34:4A:388:ALA:HB2	37:4F:846:PRO:HG3	2.00	0.42
34:4B:485:TYR:O	34:4B:489:MET:HG2	2.19	0.42
35:4C:1058:PRO:HG2	35:4C:1071:VAL:HA	2.01	0.42
36:4D:62:ILE:HD11	36:4D:86:PHE:HD2	1.84	0.42
36:4D:166:ILE:HA	36:4D:240:LEU:O	2.18	0.42
37:4E:543:ASN:HD22	38:4O:66:GLN:NE2	2.15	0.42
37:4E:583:GLU:O	43:5L:37:THR:HG23	2.19	0.42
37:4E:590:LYS:CA	37:4E:590:LYS:H	2.05	0.42
37:4E:1163:SER:HA	37:4E:1185:LEU:O	2.19	0.42
37:4E:1167:ASP:OD1	37:4E:1167:ASP:N	2.52	0.42
37:4F:588:PRO:HA	37:4F:589:PRO:HD3	1.96	0.42
37:4F:969:LEU:HD22	37:4F:1371:LEU:HD21	2.01	0.42
37:4F:1074:GLN:HA	38:4N:41:LYS:HB3	2.01	0.42
37:4F:1320:GLY:C	38:4N:29:LYS:NZ	2.77	0.42
37:4G:508:PRO:HG2	38:4L:70:LYS:HE2	2.01	0.42
37:4G:856:MET:CE	38:4L:85:LEU:CD2	2.94	0.42
37:4G:944:LYS:HD3	37:4G:944:LYS:HA	1.86	0.42
37:4G:1314:LEU:HD23	37:4G:1322:ARG:O	2.18	0.42
37:4G:1315:VAL:CG2	38:4L:26:GLU:OE2	2.67	0.42
37:4H:605:LEU:HB2	37:4H:623:ARG:NH1	2.33	0.42
37:4H:1336:ASP:O	37:4H:1707:PRO:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4J:27:ALA:O	38:4J:28:VAL:C	2.58	0.42
38:4J:32:GLU:OE1	38:4J:32:GLU:HA	2.18	0.42
38:4L:49:ILE:HD12	38:4L:49:ILE:H	1.82	0.42
38:4O:20:VAL:HB	38:4O:23:THR:CG2	2.49	0.42
39:4Q:103:TRP:CZ2	44:5M:128:MET:HA	2.54	0.42
39:4S:36:ALA:HB3	44:5U:96:PHE:CZ	2.54	0.42
40:4T:73:LEU:O	40:4T:77:VAL:HG23	2.19	0.42
40:4T:533:PRO:O	40:4T:610:LEU:HD21	2.19	0.42
40:4U:53:VAL:CG2	40:4U:421:ALA:HA	2.48	0.42
40:4U:73:LEU:O	40:4U:77:VAL:HG23	2.19	0.42
40:4U:501:ARG:HH12	40:4U:514:ASP:CG	2.25	0.42
40:4V:648:SER:O	40:4V:649:ASP:O	2.36	0.42
12:4a:172:SER:HB2	12:4a:205:GLU:CD	2.43	0.42
12:4c:68:LEU:HD23	12:4c:143:THR:HB	2.01	0.42
12:4c:165:LEU:HD11	12:4c:200:MET:HE2	2.01	0.42
12:4e:263:LEU:HD21	12:4e:421:GLU:HG2	2.00	0.42
13:4h:147:SER:HB2	13:4h:190:SER:HB3	2.01	0.42
42:5H:68:PRO:HD2	42:5H:113:ASP:OD1	2.19	0.42
42:5H:135:ARG:CZ	43:5L:56:VAL:HA	2.48	0.42
43:5L:32:LEU:HA	43:5L:32:LEU:HD12	1.50	0.42
44:5Q:93:PHE:CZ	44:5Q:145:PHE:HD2	2.37	0.42
44:5U:105:SER:OG	44:5U:139:GLN:NE2	2.52	0.42
12:5e:278:SER:HA	12:5e:281:TYR:CD2	2.53	0.42
13:5h:147:SER:HB2	13:5h:190:SER:HB3	2.01	0.42
47:6B:259:LYS:HB2	47:6B:259:LYS:HE2	1.71	0.42
47:6B:439:TYR:OH	47:6B:841:GLY:N	2.52	0.42
48:6E:411:LEU:HD12	48:6E:489:VAL:HG22	2.01	0.42
48:6E:483:GLN:OE1	48:6E:615:ASN:ND2	2.52	0.42
48:6E:780:PRO:HA	48:6E:827:LEU:HD23	2.01	0.42
49:6I:194:ILE:HG13	49:6I:195:ILE:HG13	2.00	0.42
49:6I:269:VAL:O	49:6I:273:ILE:HG13	2.19	0.42
50:6K:202:LEU:CD1	50:6K:327:LEU:HD21	2.49	0.42
50:6L:321:ASP:HB2	50:6L:322:PRO:HD3	2.01	0.42
51:6M:1245:GLY:HA3	51:6M:1355:LEU:HD13	2.00	0.42
51:6M:2137:ASP:OD1	51:6M:2289:VAL:HB	2.19	0.42
51:6N:1267:VAL:HG22	51:6N:1309:ARG:HG2	2.00	0.42
51:6N:2062:MET:HG2	51:6N:2063:ASP:O	2.18	0.42
51:6N:2100:ARG:HD2	51:6N:2100:ARG:HA	1.76	0.42
12:6e:121:ARG:HG2	12:6e:125:GLU:OE2	2.19	0.42
12:6e:263:LEU:HD21	12:6e:421:GLU:HG2	2.00	0.42
13:6f:144:GLY:N	54:6g:501:GTP:O2G	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7b:174:SER:OG	13:7b:175:PRO:HD2	2.19	0.42
12:7c:68:LEU:HB3	12:7c:96:GLY:HA2	2.00	0.42
12:7c:303:ALA:HB2	12:7c:377:MET:HG3	2.01	0.42
13:7d:301:MET:HE1	13:7d:377:MET:HE1	2.00	0.42
13:7f:174:SER:OG	13:7f:175:PRO:HD2	2.19	0.42
13:7f:301:MET:HE1	13:7f:377:MET:HE1	2.00	0.42
12:8a:131:GLN:O	12:8a:163:MET:HG3	2.19	0.42
13:8b:147:SER:HB2	13:8b:190:SER:HB3	2.01	0.42
12:8c:323:THR:HA	12:8c:326:VAL:HG22	2.00	0.42
12:8g:251:ARG:O	12:8g:255:VAL:HG12	2.19	0.42
12:9a:328:GLU:O	12:9a:331:LEU:HG	2.19	0.42
13:9b:248:LEU:HD23	13:9b:248:LEU:HA	1.79	0.42
13:9d:144:GLY:N	54:9e:501:GTP:O2G	2.52	0.42
12:9e:120:VAL:HG21	12:9e:155:ILE:HD11	2.01	0.42
12:9e:395:LEU:O	12:9e:399:THR:HG23	2.18	0.42
13:9h:144:GLY:N	54:9h:501:GTP:O2G	2.52	0.42
12:Aa:11:GLN:HA	12:Aa:72:THR:HG21	2.00	0.42
13:Ab:104:ALA:HB2	13:Ab:413:MET:HB2	2.01	0.42
12:Ae:335:ASN:O	12:Ae:338:SER:OG	2.32	0.42
12:Ag:21:TRP:CZ3	12:Ag:61:PRO:HB3	2.54	0.42
13:Bb:273:ALA:N	13:Bb:375:VAL:O	2.48	0.42
13:Bd:144:GLY:N	54:Bd:501:GTP:O2G	2.53	0.42
13:Bd:179:THR:HB	12:Be:246:LEU:HD21	2.00	0.42
12:Be:26:ASP:O	12:Be:359:LYS:HD2	2.19	0.42
12:Be:151:LEU:O	12:Be:155:ILE:HG12	2.19	0.42
12:Be:274:THR:HG23	12:Be:282:ARG:HD3	2.01	0.42
13:Bh:104:ALA:HB2	13:Bh:413:MET:HB2	2.01	0.42
13:Cb:301:MET:HE1	13:Cb:377:MET:HE1	2.00	0.42
12:Ce:99:ASN:HD21	13:Cf:352:LYS:HZ3	1.67	0.42
13:Cf:174:SER:OG	13:Cf:175:PRO:HD2	2.19	0.42
13:Cf:246:GLY:N	13:Cf:249:ASN:OD1	2.43	0.42
12:Cg:229:ILE:O	12:Cg:233:MET:HG3	2.19	0.42
13:Db:90:GLU:OE1	13:Db:121:ARG:NE	2.44	0.42
13:Db:301:MET:HE1	13:Db:377:MET:HE1	2.00	0.42
12:Dc:248:ALA:CB	12:Dc:252:LYS:HD2	2.49	0.42
12:De:238:CYS:SG	12:De:239:CYS:N	2.91	0.42
1:0J:330:SER:O	1:0J:334:GLU:HG2	2.19	0.42
1:0K:12:ARG:O	1:0K:16:GLU:HG2	2.19	0.42
1:0K:85:LEU:HD13	1:0K:121:VAL:HA	2.01	0.42
1:0A:142:LYS:HB2	1:0A:183:LEU:HD11	1.99	0.42
1:0A:222:ASP:HB3	1:0A:225:LEU:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0B:47:ARG:HH12	47:6B:120:THR:HA	1.84	0.42
1:0B:286:ALA:HB1	1:0B:320:ILE:HG22	2.01	0.42
1:0C:31:PRO:HA	1:0C:34:ILE:HD12	2.00	0.42
1:0C:337:LEU:HB2	1:0C:338:PRO:HD3	2.00	0.42
1:0E:85:LEU:HA	1:0E:88:LEU:HD12	2.00	0.42
1:0F:219:ILE:HG12	1:0F:255:LYS:CG	2.46	0.42
1:0F:261:LYS:HZ2	39:4Q:136:LEU:CD2	2.29	0.42
1:0L:128:ASP:OD1	1:0L:129:SER:N	2.53	0.42
1:0L:218:VAL:HG22	1:0L:229:VAL:CG2	2.49	0.42
1:0M:24:VAL:HG11	1:0M:46:LEU:HD21	2.01	0.42
1:0M:379:CYS:O	1:0M:383:LEU:HG	2.19	0.42
1:0N:178:GLU:HA	1:0N:179:PRO:HD3	1.77	0.42
1:0O:336:ALA:O	1:0O:340:LEU:HG	2.19	0.42
1:0P:47:ARG:HB2	1:0P:84:ILE:HG12	2.00	0.42
1:0P:167:GLY:C	1:0P:169:VAL:H	2.24	0.42
1:0P:306:ALA:HB3	1:0P:309:ASN:ND2	2.34	0.42
1:0R:283:PRO:HD3	47:6B:284:LEU:HD13	2.01	0.42
1:0S:97:ARG:HB3	1:0S:138:ASP:OD1	2.20	0.42
1:0T:382:THR:O	1:0T:386:LEU:HG	2.19	0.42
1:0V:83:GLU:C	1:0V:86:PRO:HD2	2.44	0.42
1:0V:95:GLN:HG3	25:2W:62:UNK:CA	2.24	0.42
1:0V:105:PHE:HA	1:0V:108:ARG:CZ	2.49	0.42
1:0V:329:LEU:HA	1:0V:370:HIS:CE1	2.54	0.42
1:0X:134:LEU:HG	1:0X:145:SER:OG	2.19	0.42
1:0X:253:PHE:HA	1:0X:256:ILE:HB	2.01	0.42
1:0Z:168:ALA:O	1:0Z:172:LEU:HG	2.19	0.42
1:1B:65:LEU:HD22	1:1B:84:ILE:HG21	2.02	0.42
1:1B:338:PRO:HB2	1:1B:339:PRO:HD3	2.01	0.42
1:1C:213:TYR:O	1:1C:216:PRO:HD2	2.19	0.42
1:1C:235:GLN:HA	1:1C:238:LYS:HD3	2.01	0.42
2:1D:320:PRO:HB2	2:1D:361:ALA:CB	2.47	0.42
2:1F:352:PRO:O	2:1F:356:LYS:HG3	2.18	0.42
2:1G:394:GLY:O	2:1G:397:LYS:HE3	2.19	0.42
3:1H:232:CYS:SG	3:1H:270:GLN:HB2	2.59	0.42
3:1H:812:VAL:HG11	3:1H:822:LEU:HD22	2.01	0.42
3:1I:144:ARG:HG2	3:1I:145:PRO:HD2	2.01	0.42
4:1J:21:ILE:HG21	13:Bh:419:SER:CB	2.49	0.42
4:1J:120:ARG:HE	4:1J:147:LYS:HG2	1.83	0.42
4:1J:288:GLU:N	4:1J:317:ASN:HD22	2.17	0.42
4:1K:120:ARG:HE	4:1K:147:LYS:HG2	1.83	0.42
4:1K:229:LEU:CD2	4:1K:270:ILE:HG22	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1K:260:SER:HA	4:1K:290:GLU:OE1	2.19	0.42
5:1L:412:SER:H	5:1L:449:ILE:HD13	1.85	0.42
5:1M:222:LEU:HA	5:1M:238:THR:H	1.83	0.42
6:1N:171:THR:O	6:1N:175:VAL:HG23	2.19	0.42
6:1N:723:TRP:CD2	8:1P:733:PRO:HB3	2.54	0.42
6:1N:2482:TRP:HB2	6:1N:2497:ARG:HH21	1.83	0.42
6:1N:2724:VAL:HB	6:1N:2765:PRO:HB2	2.01	0.42
7:1O:2016:LEU:HD23	7:1O:2039:THR:HA	2.00	0.42
10:1R:296:PRO:HG3	32:3J:38:VAL:HG23	2.02	0.42
10:1R:398:VAL:CG1	13:Ab:123:ARG:HH22	2.30	0.42
13:1d:283:HIS:O	12:Da:86:ARG:NH2	2.51	0.42
12:1e:286:VAL:HG22	12:1e:321:MET:SD	2.59	0.42
12:1e:377:MET:HE2	12:1e:377:MET:HB2	1.58	0.42
12:1g:165:LEU:HD11	12:1g:200:MET:HE2	2.01	0.42
12:1g:229:ILE:O	12:1g:233:MET:HG3	2.19	0.42
14:2F:41:TRP:CZ3	12:Da:92:PHE:CZ	3.07	0.42
18:2L:43:UNK:HA	12:5e:42:LEU:HD11	2.00	0.42
23:2R:49:UNK:N	12:3c:340:TYR:OH	2.52	0.42
24:2T:184:GLN:O	24:2T:188:ASN:ND2	2.52	0.42
24:2U:155:PRO:O	24:2U:158:VAL:HG22	2.19	0.42
13:2b:52:PHE:HZ	13:2b:239:THR:HG21	1.84	0.42
13:2b:273:ALA:N	13:2b:375:VAL:O	2.48	0.42
12:2c:107:THR:OG1	12:2c:108:GLU:N	2.52	0.42
12:2c:112:LEU:HB2	12:2c:147:MET:HE1	2.01	0.42
13:2d:104:ALA:HB2	13:2d:413:MET:HB2	2.01	0.42
13:2d:237:SER:HA	13:2d:320:ARG:HD2	2.01	0.42
12:2e:238:CYS:SG	12:2e:239:CYS:N	2.92	0.42
12:2e:406:MET:HE3	12:2e:406:MET:HB3	1.92	0.42
13:2f:273:ALA:N	13:2f:375:VAL:O	2.48	0.42
13:2f:371:VAL:HG22	13:2f:373:ARG:H	1.85	0.42
12:2g:145:SER:HB2	12:2g:188:SER:OG	2.19	0.42
12:2g:222:PHE:CE2	13:2h:325:PRO:CG	3.03	0.42
13:2h:90:GLU:OE1	13:2h:121:ARG:NE	2.44	0.42
13:2h:147:SER:HB2	13:2h:190:SER:HB3	2.01	0.42
30:3F:301:VAL:HA	13:6f:264:ARG:NH2	2.21	0.42
30:3F:506:ARG:HH11	12:7a:107:THR:HG22	1.84	0.42
30:3G:544:LEU:HD23	30:3G:544:LEU:HA	1.56	0.42
30:3G:627:LEU:HD22	12:7e:409:THR:OG1	2.18	0.42
31:3I:144:ILE:HD11	31:3I:179:LEU:HG	2.01	0.42
32:3J:48:PRO:HG2	32:3J:66:LEU:HG	2.01	0.42
32:3J:101:PRO:HD3	12:Ac:421:GLU:OE2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:3K:141:VAL:CG2	32:3K:228:GLU:OE2	2.62	0.42
34:3N:219:ILE:CD1	34:3N:222:LEU:HD13	2.49	0.42
34:3P:353:LEU:HA	34:3P:375:TYR:HE1	1.83	0.42
34:3P:456:LEU:HD23	34:3P:456:LEU:HA	1.80	0.42
34:3R:255:HIS:O	34:3R:259:MET:HG2	2.19	0.42
34:3S:56:TYR:HB3	34:3S:295:GLN:CD	2.44	0.42
34:3S:60:TYR:HE1	34:3S:298:ALA:HB1	1.84	0.42
34:3T:327:VAL:HA	34:3T:330:GLU:OE2	2.19	0.42
34:3Y:480:ALA:O	34:3Y:484:GLU:HG3	2.19	0.42
13:3d:144:GLY:N	54:3d:501:GTP:O2G	2.53	0.42
13:3d:301:MET:HE1	13:3d:377:MET:HE1	2.01	0.42
13:3h:144:GLY:N	54:3h:501:GTP:O2G	2.53	0.42
35:4C:471:VAL:HG13	35:4C:499:LEU:HD21	2.01	0.42
35:4C:531:GLU:HG2	35:4C:784:LEU:HB3	2.01	0.42
37:4E:602:VAL:HG11	37:4E:779:LEU:HD22	2.01	0.42
37:4E:1120:GLY:CA	43:5L:140:LYS:NZ	2.75	0.42
37:4E:1741:VAL:O	37:4E:1742:LYS:O	2.37	0.42
37:4F:1335:MET:CB	37:4F:1337:GLY:N	2.82	0.42
37:4G:538:GLU:O	37:4G:542:ARG:HG2	2.20	0.42
37:4G:857:ALA:N	38:4L:85:LEU:O	2.51	0.42
37:4G:1335:MET:HE3	37:4G:1338:PHE:CA	2.46	0.42
37:4G:1336:ASP:HA	37:4G:1709:LEU:HB2	2.01	0.42
37:4G:1341:ILE:CD1	38:4L:27:ALA:O	2.65	0.42
37:4H:1489:LYS:HA	37:4H:1489:LYS:HD3	1.85	0.42
38:4N:39:HIS:C	38:4N:41:LYS:N	2.74	0.42
39:4S:19:TYR:CE2	43:5K:121:PHE:HB2	2.54	0.42
40:4V:73:LEU:O	40:4V:77:VAL:HG23	2.19	0.42
13:4b:273:ALA:N	13:4b:375:VAL:O	2.48	0.42
13:4d:147:SER:HB2	13:4d:190:SER:HB3	2.01	0.42
13:4f:147:SER:HB2	13:4f:190:SER:HB3	2.01	0.42
41:5D:146:LEU:HA	41:5D:160:GLN:HA	2.00	0.42
42:5E:26:GLU:OE2	42:5E:26:GLU:N	2.43	0.42
42:5F:32:LEU:HB3	42:5F:51:LEU:HD11	2.00	0.42
42:5H:158:MET:SD	43:5L:159:PRO:HG2	2.60	0.42
43:5I:87:ILE:HG12	43:5I:146:TYR:HB2	2.01	0.42
43:5J:87:ILE:HG12	43:5J:146:TYR:HB2	2.02	0.42
43:5L:163:VAL:O	43:5L:165:LEU:HB3	2.19	0.42
45:5X:86:UNK:O	45:5X:87:UNK:C	2.67	0.42
12:5a:286:VAL:N	12:5a:287:PRO:HD2	2.34	0.42
12:5c:36:TYR:CD2	12:5c:44:LEU:HD21	2.54	0.42
12:5c:179:VAL:O	12:5c:388:MET:HE1	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5c:255:VAL:HG13	12:5c:256:ASN:N	2.34	0.42
13:5d:147:SER:HB2	13:5d:190:SER:HB3	2.01	0.42
12:5e:151:LEU:O	12:5e:155:ILE:HG12	2.18	0.42
13:5f:147:SER:HB2	13:5f:190:SER:HB3	2.01	0.42
12:5g:173:PRO:HA	12:5g:380:ARG:HD2	2.00	0.42
47:6A:439:TYR:OH	47:6A:841:GLY:N	2.52	0.42
47:6A:767:VAL:CG1	47:6A:770:PHE:HB3	2.49	0.42
47:6A:1196:HIS:CD2	51:6M:2463:SER:HB2	2.54	0.42
47:6B:561:GLY:O	47:6B:565:LEU:HD23	2.19	0.42
47:6B:767:VAL:CG1	47:6B:770:PHE:HB3	2.49	0.42
3:6D:851:SER:HB3	3:6D:953:ILE:HG12	2.01	0.42
48:6E:223:LEU:HD22	48:6E:226:LEU:HD13	2.01	0.42
48:6E:237:VAL:CG1	48:6E:240:ASN:HD22	2.30	0.42
48:6E:620:LEU:HD13	48:6E:655:LEU:HG	2.02	0.42
48:6E:874:LEU:CD1	48:6E:921:VAL:HG11	2.46	0.42
48:6F:411:LEU:HD12	48:6F:489:VAL:HG22	2.01	0.42
48:6F:944:VAL:HA	48:6F:945:PRO:HD3	1.80	0.42
49:6G:95:ASP:HA	49:6G:108:LYS:NZ	2.33	0.42
49:6G:360:VAL:HG21	49:6G:412:MET:HE3	2.01	0.42
49:6H:70:THR:OG1	49:6H:75:PHE:HE2	2.02	0.42
49:6I:10:HIS:O	49:6I:12:LEU:HD12	2.19	0.42
49:6I:203:ASN:CB	49:6I:258:ASN:HA	2.29	0.42
49:6J:269:VAL:O	49:6J:273:ILE:HG13	2.19	0.42
49:6J:401:VAL:HG11	49:6J:432:LEU:CD1	2.27	0.42
50:6K:586:TRP:NE1	50:6K:590:ASN:HD22	2.17	0.42
50:6K:596:GLU:HA	50:6K:599:GLU:HG2	2.01	0.42
50:6L:88:ILE:HD12	50:6L:95:VAL:HB	2.00	0.42
50:6L:586:TRP:NE1	50:6L:590:ASN:HD22	2.17	0.42
51:6N:1241:VAL:HG11	51:6N:1251:LYS:HG3	2.01	0.42
51:6N:2014:LEU:HD13	51:6N:2032:TYR:CE1	2.54	0.42
51:6N:2169:ALA:HB1	51:6N:2173:ARG:NH2	2.34	0.42
12:6a:95:THR:HG23	12:6a:108:GLU:OE1	2.19	0.42
13:6b:107:HIS:O	13:6b:112:LYS:NZ	2.41	0.42
13:6b:144:GLY:N	54:6c:501:GTP:O2G	2.52	0.42
12:6c:1:MET:SD	12:6c:2:ARG:HG3	2.60	0.42
13:6d:144:GLY:N	54:6e:501:GTP:O2G	2.53	0.42
13:6h:144:GLY:N	54:6h:501:GTP:O2G	2.53	0.42
12:7a:314:SER:OG	12:7a:368:ILE:HB	2.19	0.42
13:7b:52:PHE:HZ	13:7b:239:THR:HG21	1.84	0.42
13:7d:147:SER:HB2	13:7d:190:SER:HB3	2.01	0.42
13:7d:174:SER:OG	13:7d:175:PRO:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:7e:16:ILE:HD11	12:7e:229:ILE:CG2	2.49	0.42
12:7e:139:LEU:HD22	12:7e:188:SER:HB2	2.01	0.42
13:7h:147:SER:HB2	13:7h:190:SER:HB3	2.01	0.42
12:8a:247:ASN:OD1	12:8a:248:ALA:N	2.53	0.42
12:8e:396:HIS:NE2	13:8f:261:PRO:O	2.37	0.42
12:9a:215:LEU:HB3	12:9a:217:LEU:HD13	2.02	0.42
13:9b:371:VAL:HG22	13:9b:373:ARG:H	1.85	0.42
12:9c:99:ASN:HA	12:9c:142:GLY:H	1.84	0.42
12:9e:139:LEU:HD22	12:9e:188:SER:OG	2.18	0.42
13:9f:144:GLY:N	54:9f:501:GTP:O2G	2.52	0.42
13:9f:222:PRO:HD2	12:9g:324:LYS:CG	2.43	0.42
13:9f:371:VAL:HG22	13:9f:373:ARG:H	1.85	0.42
13:Af:104:ALA:HB2	13:Af:413:MET:HB2	2.01	0.42
13:Bb:144:GLY:N	54:Bb:501:GTP:O2G	2.52	0.42
13:Bd:371:VAL:HG22	13:Bd:373:ARG:H	1.85	0.42
12:Be:278:SER:CA	12:Be:281:TYR:HB2	2.49	0.42
13:Bf:104:ALA:HB2	13:Bf:413:MET:HB2	2.01	0.42
13:Bf:144:GLY:N	54:Bf:501:GTP:O2G	2.52	0.42
13:Bf:371:VAL:HG22	13:Bf:373:ARG:H	1.85	0.42
13:Bh:144:GLY:N	54:Bh:501:GTP:O2G	2.52	0.42
13:Bh:371:VAL:HG22	13:Bh:373:ARG:H	1.85	0.42
12:Ca:23:VAL:HA	12:Ca:26:ASP:OD2	2.19	0.42
13:Cb:222:PRO:HD2	12:Cc:324:LYS:CG	2.38	0.42
13:Cd:301:MET:HE1	13:Cd:377:MET:HE1	2.01	0.42
13:Cf:217:LEU:HG	13:Cf:277:SER:HB3	2.01	0.42
12:Cg:179:VAL:O	12:Cg:388:MET:HE1	2.20	0.42
12:Da:287:PRO:HD3	12:Da:325:GLU:OE2	2.18	0.42
13:Dd:317:LEU:HB3	13:Dd:319:TYR:CE1	2.53	0.42
12:De:6:HIS:NE2	12:De:136:CYS:SG	2.92	0.42
13:Df:317:LEU:HB3	13:Df:319:TYR:CE1	2.53	0.42
1:0H:83:GLU:C	1:0H:86:PRO:HD2	2.44	0.42
1:0J:142:LYS:HB3	1:0J:175:CYS:SG	2.59	0.42
1:0J:248:VAL:HG11	1:0J:285:LEU:HG	2.01	0.42
1:0I:224:LYS:O	1:0I:228:GLN:HG2	2.19	0.42
1:0K:163:VAL:HG12	1:0K:168:ALA:HB2	2.00	0.42
1:0A:249:GLY:CA	47:6A:337:ARG:HH12	2.21	0.42
1:0A:319:TYR:CE1	1:0A:358:TRP:CH2	3.08	0.42
1:0E:354:SER:HB2	1:0E:399:LYS:HE3	2.01	0.42
1:0F:34:ILE:HD13	1:0F:71:TYR:HB2	2.02	0.42
1:0M:82:ASN:HB2	1:0M:84:ILE:HD11	2.00	0.42
1:0M:92:LEU:HA	1:0M:132:THR:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0N:139:PRO:HG3	32:3J:77:ARG:HH22	1.83	0.42
1:0N:180:GLU:HB3	1:0N:183:LEU:HD23	2.01	0.42
1:0O:149:LEU:HD22	1:0O:163:VAL:HG13	2.01	0.42
1:0O:248:VAL:HG12	1:0O:253:PHE:CZ	2.54	0.42
1:0P:358:TRP:CD1	1:0P:362:GLN:HE22	2.36	0.42
1:0U:30:ASN:O	1:0U:34:ILE:HG13	2.18	0.42
1:0V:97:ARG:NH1	12:2c:410:GLU:OE2	2.52	0.42
1:0V:160:ALA:O	1:0V:164:VAL:HG23	2.18	0.42
1:0X:3:THR:OG1	1:0X:4:ARG:N	2.52	0.42
1:0X:335:LYS:HB2	1:0X:335:LYS:HE3	1.72	0.42
1:0Y:50:LEU:HD12	1:0Y:58:GLN:HG3	2.01	0.42
1:0Z:337:LEU:HB2	1:0Z:338:PRO:HD3	2.00	0.42
1:1A:218:VAL:CG1	1:1A:255:LYS:HB3	2.47	0.42
1:1A:290:VAL:HG22	1:1A:295:VAL:HG21	1.99	0.42
1:1C:118:ALA:O	1:1C:122:ILE:HG13	2.18	0.42
1:1C:153:ALA:O	1:1C:197:HIS:NE2	2.53	0.42
2:1D:112:MET:HG2	2:1D:153:GLN:NE2	2.34	0.42
2:1E:136:ASP:OD1	2:1E:139:ARG:HD2	2.18	0.42
2:1F:356:LYS:HE3	3:1H:915:TRP:CZ3	2.55	0.42
2:1G:112:MET:HG2	2:1G:153:GLN:NE2	2.34	0.42
3:1H:206:ASP:N	47:6A:291:GLN:NE2	2.62	0.42
3:1H:951:TYR:HA	3:1H:976:VAL:HG13	2.00	0.42
3:1I:236:VAL:HG21	3:1I:274:LEU:HB3	2.00	0.42
4:1J:228:SER:OG	4:1J:271:GLN:HB3	2.20	0.42
4:1K:228:SER:OG	4:1K:271:GLN:HB3	2.20	0.42
4:1K:248:GLU:CD	3:6D:926:MET:HA	2.45	0.42
5:1L:404:PRO:HG2	5:1L:456:GLU:OE2	2.19	0.42
5:1L:453:VAL:HB	5:1L:461:ILE:HG22	2.01	0.42
6:1N:15:ALA:HA	6:1N:19:ARG:HB2	2.01	0.42
6:1N:974:PRO:HB2	6:1N:979:TRP:HE1	1.84	0.42
7:1O:2526:LEU:HD22	8:1P:779:SER:HB2	2.01	0.42
8:1P:913:VAL:N	8:1P:914:PRO:HD2	2.34	0.42
10:1R:256:LYS:O	10:1R:258:THR:HG23	2.19	0.42
10:1R:414:ASP:CG	10:1R:414:ASP:O	2.62	0.42
10:1S:396:GLU:HB3	10:1S:397:PRO:HD3	2.02	0.42
12:1a:221:THR:HG23	12:1a:223:GLY:H	1.83	0.42
13:1b:317:LEU:HB3	13:1b:319:TYR:CE1	2.53	0.42
13:1b:371:VAL:HG22	13:1b:373:ARG:H	1.85	0.42
14:2G:45:ARG:HD3	13:Df:244:PHE:HE1	1.84	0.42
14:2G:51:GLU:OE2	14:2G:54:ARG:NH2	2.52	0.42
15:2H:161:UNK:O	12:7g:74:ASP:OD2	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:2I:63:UNK:CB	12:Bc:77:ARG:HD3	2.49	0.42
17:2K:77:UNK:HA	13:Af:84:ARG:CZ	2.49	0.42
12:2a:99:ASN:HD22	13:2b:258:ASN:ND2	2.16	0.42
13:2b:237:SER:HA	13:2b:320:ARG:HD2	2.02	0.42
13:2b:371:VAL:HG22	13:2b:373:ARG:H	1.85	0.42
13:2f:147:SER:HB2	13:2f:190:SER:HB3	2.01	0.42
13:2f:237:SER:HA	13:2f:320:ARG:HD2	2.01	0.42
13:2h:52:PHE:HZ	13:2h:239:THR:HG21	1.85	0.42
13:2h:237:SER:HA	13:2h:320:ARG:HD2	2.02	0.42
28:3C:557:ILE:O	28:3C:560:THR:OG1	2.36	0.42
29:3E:1191:TRP:CE2	13:5d:112:LYS:HG3	2.54	0.42
30:3G:729:LEU:HA	30:3G:729:LEU:HD23	1.62	0.42
31:3H:179:LEU:O	31:3H:182:GLN:HB2	2.20	0.42
31:3I:318:LEU:HD11	13:8h:409:VAL:HG21	2.01	0.42
32:3K:135:PRO:C	32:3K:136:LEU:HD12	2.44	0.42
32:3K:243:PHE:CD1	32:3K:244:PRO:HD2	2.54	0.42
34:3M:480:ALA:O	34:3M:483:GLU:HG3	2.19	0.42
34:3N:263:LYS:O	34:3N:267:GLU:HG2	2.20	0.42
34:3P:100:ILE:HG12	34:3P:338:LEU:HD13	2.01	0.42
34:3Q:367:GLY:O	34:3Q:368:LEU:C	2.62	0.42
34:3R:500:TYR:O	34:3R:504:LEU:HG	2.19	0.42
34:3T:64:HIS:CE1	34:3T:68:LEU:HD21	2.54	0.42
34:3U:352:LEU:HD13	34:3U:382:LEU:CD1	2.42	0.42
34:3U:492:LEU:HD23	34:3U:492:LEU:HA	1.88	0.42
34:3W:363:SER:O	34:3W:363:SER:OG	2.33	0.42
34:3Y:327:VAL:HG11	34:3Y:404:HIS:HB2	2.02	0.42
34:3Z:280:TRP:HB2	34:3Z:452:HIS:HD2	1.79	0.42
13:3b:301:MET:HE1	13:3b:377:MET:HE1	2.00	0.42
12:3g:5:VAL:HG23	12:3g:130:LEU:HD11	2.01	0.42
13:3h:174:SER:OG	13:3h:175:PRO:HD2	2.19	0.42
34:4A:332:GLU:O	34:4A:336:ARG:HG3	2.18	0.42
34:4B:360:VAL:C	34:4B:361:LEU:HD22	2.43	0.42
35:4C:928:TRP:CZ2	35:4C:1060:SER:HB3	2.55	0.42
36:4D:213:TRP:CE3	36:4D:222:TYR:CE2	3.05	0.42
37:4E:578:ASP:N	43:5L:43:GLN:HE21	2.16	0.42
37:4E:1464:ALA:HB2	37:4E:1474:PHE:HD1	1.84	0.42
37:4E:1781:LEU:HD12	37:4E:1782:GLU:H	1.84	0.42
37:4F:798:MET:HE3	37:4F:798:MET:HB3	1.94	0.42
37:4F:1282:ILE:HG22	37:4F:1300:GLU:HB3	2.00	0.42
37:4F:1284:SER:HB2	37:4F:1299:ARG:HA	2.00	0.42
37:4F:1294:ALA:HB2	37:4F:1308:TYR:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:1525:LEU:HD11	37:4F:1611:ILE:CG2	2.49	0.42
37:4G:537:LEU:HD23	37:4G:537:LEU:HA	1.58	0.42
37:4G:539:GLN:HE22	37:4G:543:ASN:ND2	2.16	0.42
37:4G:590:LYS:HD3	37:4G:591:PRO:O	2.19	0.42
37:4G:600:CYS:SG	37:4G:602:VAL:HG22	2.60	0.42
37:4G:1083:ILE:CB	38:4L:35:ALA:HA	2.44	0.42
37:4G:1093:VAL:HG21	38:4L:32:GLU:O	2.18	0.42
38:4J:30:ALA:HA	38:4J:33:LYS:HG2	2.01	0.42
38:4M:63:GLN:OE1	38:4M:87:HIS:NE2	2.52	0.42
38:4P:54:GLU:HA	38:4P:58:VAL:CG2	2.49	0.42
40:4T:450:LEU:O	40:4T:477:LEU:HD11	2.20	0.42
40:4T:501:ARG:HH12	40:4T:514:ASP:CG	2.25	0.42
40:4U:450:LEU:O	40:4U:477:LEU:HD11	2.20	0.42
40:4V:157:SER:O	40:4V:160:THR:OG1	2.29	0.42
40:4V:450:LEU:O	40:4V:477:LEU:HD11	2.20	0.42
40:4V:533:PRO:O	40:4V:610:LEU:HD21	2.19	0.42
13:4b:144:GLY:N	54:4b:501:GTP:O2G	2.52	0.42
12:4c:172:SER:HB2	12:4c:205:GLU:HB2	2.00	0.42
12:4c:244:GLY:HA2	12:4c:354:CYS:HA	2.00	0.42
13:4d:144:GLY:N	54:4d:501:GTP:O2G	2.52	0.42
13:4f:33:ASP:OD2	13:4f:35:GLN:NE2	2.53	0.42
13:4h:317:LEU:HB3	13:4h:319:TYR:CE1	2.53	0.42
42:5H:143:VAL:HG13	43:5L:147:THR:O	2.17	0.42
43:5J:90:GLN:CD	43:5J:147:THR:HG1	2.24	0.42
43:5L:34:ALA:CB	43:5L:42:TYR:CZ	3.02	0.42
43:5L:70:ASP:N	43:5L:70:ASP:OD1	2.51	0.42
44:5Q:149:MET:HE3	44:5Q:149:MET:HB3	1.78	0.42
12:5a:232:VAL:O	12:5a:236:ILE:HG12	2.19	0.42
13:5b:174:SER:OG	13:5b:175:PRO:HD2	2.19	0.42
13:5b:371:VAL:HG22	13:5b:373:ARG:H	1.85	0.42
12:5c:107:THR:HG21	12:5c:401:GLU:HB3	2.01	0.42
12:5g:304:ASP:HA	12:5g:305:PRO:HD3	1.93	0.42
13:5h:104:ALA:HB2	13:5h:413:MET:HB2	2.01	0.42
47:6A:29:PHE:HD1	47:6A:49:THR:CG2	2.32	0.42
47:6A:561:GLY:O	47:6A:565:LEU:HD23	2.18	0.42
47:6B:1196:HIS:CD2	51:6N:2463:SER:HB2	2.54	0.42
3:6D:800:TYR:O	3:6D:804:VAL:HG23	2.19	0.42
48:6E:355:PRO:HB3	48:6E:652:ALA:HB2	2.01	0.42
48:6E:944:VAL:HA	48:6E:945:PRO:HD3	1.80	0.42
48:6E:952:LEU:CD1	48:6E:953:PRO:HD2	2.46	0.42
48:6F:157:ARG:NH1	49:6H:281:LYS:NZ	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:6F:780:PRO:HA	48:6F:827:LEU:HD23	2.01	0.42
48:6F:958:MET:HB3	50:6L:444:VAL:HG23	2.00	0.42
49:6G:43:THR:CG2	49:6G:71:ARG:HB3	2.50	0.42
49:6G:70:THR:OG1	49:6G:75:PHE:HE2	2.02	0.42
49:6G:194:ILE:HG13	49:6G:195:ILE:HG13	2.00	0.42
49:6G:211:MET:HE3	49:6G:211:MET:HB2	1.97	0.42
49:6H:43:THR:CG2	49:6H:71:ARG:HB3	2.50	0.42
49:6H:194:ILE:HG13	49:6H:195:ILE:HG13	2.00	0.42
49:6I:70:THR:OG1	49:6I:75:PHE:HE2	2.02	0.42
49:6J:117:ILE:HD11	49:6J:148:LEU:HD22	2.01	0.42
49:6J:194:ILE:HG13	49:6J:195:ILE:HG13	2.00	0.42
50:6K:77:ARG:HH12	50:6K:158:GLN:CD	2.27	0.42
50:6K:473:ALA:HB3	50:6K:478:PRO:HD3	1.99	0.42
50:6L:202:LEU:CD1	50:6L:327:LEU:HD21	2.49	0.42
51:6M:1547:TYR:CD1	51:6M:2005:CYS:HB3	2.54	0.42
51:6M:1974:ARG:HG3	51:6M:1976:ASN:HD21	1.84	0.42
51:6M:2062:MET:HG2	51:6M:2063:ASP:O	2.18	0.42
51:6M:2306:LEU:O	51:6M:2310:VAL:HG13	2.19	0.42
51:6N:2306:LEU:O	51:6N:2310:VAL:HG13	2.19	0.42
52:6P:47:UNK:O	52:6P:48:UNK:C	2.67	0.42
52:6Q:47:UNK:O	52:6Q:48:UNK:C	2.67	0.42
12:6a:286:VAL:O	12:6a:290:THR:HG23	2.19	0.42
12:6c:377:MET:HE3	12:6c:377:MET:HB2	1.71	0.42
12:6g:68:LEU:HB3	12:6g:96:GLY:HA2	2.00	0.42
12:7e:274:THR:HG21	12:7e:279:GLN:HA	2.01	0.42
13:7h:52:PHE:HZ	13:7h:239:THR:HG21	1.84	0.42
12:8a:286:VAL:O	12:8a:290:THR:HG23	2.19	0.42
12:8a:343:GLU:HG2	12:8a:344:TRP:N	2.35	0.42
12:8c:165:LEU:HD11	12:8c:200:MET:HE2	2.01	0.42
12:9a:21:TRP:CD1	12:9a:85:PHE:HE1	2.37	0.42
13:9b:52:PHE:HZ	13:9b:239:THR:HG21	1.85	0.42
13:9b:144:GLY:N	54:9b:501:GTP:O2G	2.52	0.42
13:9d:177:VAL:HG22	12:9e:327:ASP:HB2	2.01	0.42
13:9d:217:LEU:HG	13:9d:277:SER:HB3	2.01	0.42
13:9d:371:VAL:HG22	13:9d:373:ARG:H	1.85	0.42
13:9d:398:MET:HG3	12:9e:346:PRO:HD2	2.01	0.42
13:9f:217:LEU:HG	13:9f:277:SER:HB3	2.01	0.42
13:9f:273:ALA:N	13:9f:375:VAL:O	2.48	0.42
13:9h:174:SER:OG	13:9h:175:PRO:HD2	2.19	0.42
13:9h:371:VAL:HG22	13:9h:373:ARG:H	1.85	0.42
13:Ab:179:THR:OG1	54:Ab:501:GTP:O3'	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ad:104:ALA:HB2	13:Ad:413:MET:HB2	2.01	0.42
13:Ad:174:SER:OG	13:Ad:175:PRO:HD2	2.19	0.42
12:Ag:68:LEU:HD23	12:Ag:143:THR:HB	2.02	0.42
13:Ah:104:ALA:HB2	13:Ah:413:MET:HB2	2.01	0.42
13:Ah:273:ALA:N	13:Ah:375:VAL:O	2.48	0.42
13:Ah:371:VAL:HG22	13:Ah:373:ARG:H	1.85	0.42
12:Ba:73:MET:CE	12:Ba:92:PHE:HB3	2.45	0.42
13:Bb:104:ALA:HB2	13:Bb:413:MET:HB2	2.01	0.42
12:Be:113:ILE:HD11	12:Be:154:LYS:HG3	2.01	0.42
53:Be:501:GDP:H2'	13:Bf:248:LEU:HD21	2.01	0.42
13:Cb:174:SER:OG	13:Cb:175:PRO:HD2	2.19	0.42
13:Cb:217:LEU:HG	13:Cb:277:SER:HB3	2.01	0.42
13:Cd:175:PRO:O	13:Cd:394:LYS:NZ	2.46	0.42
13:Cd:217:LEU:HG	13:Cd:277:SER:HB3	2.01	0.42
13:Cf:404:PHE:CD1	12:Cg:259:PRO:HA	2.53	0.42
12:Cg:39:ASP:OD2	12:Cg:40:SER:N	2.53	0.42
12:Cg:165:LEU:HD11	12:Cg:200:MET:HE2	2.02	0.42
12:Da:177:ASP:O	13:Db:352:LYS:HA	2.19	0.42
12:De:175:VAL:HG21	13:Df:332:VAL:HG13	2.00	0.42
12:Dg:86:ARG:HB3	12:Dg:88:ASP:OD1	2.19	0.42
12:Dg:246:LEU:HB3	12:Dg:353:VAL:HG12	2.02	0.42
12:Dg:343:GLU:HG2	12:Dg:344:TRP:N	2.34	0.42
1:0H:290:VAL:HG22	1:0H:295:VAL:HG11	2.01	0.42
1:0J:65:LEU:HD22	1:0J:84:ILE:HG21	2.02	0.42
1:0W:275:VAL:HG13	1:0W:289:VAL:HG11	1.99	0.42
1:0I:262:PHE:HB2	1:0I:267:VAL:HG21	2.01	0.42
1:0K:85:LEU:HD23	1:0K:88:LEU:HD12	2.01	0.42
1:0A:168:ALA:O	1:0A:172:LEU:HG	2.18	0.42
1:0A:253:PHE:HA	1:0A:256:ILE:HB	2.01	0.42
1:0A:423:ARG:HD2	1:0A:423:ARG:HA	1.90	0.42
1:0C:269:LYS:O	1:0C:273:THR:HG23	2.20	0.42
1:0E:231:CYS:O	1:0E:235:GLN:HG2	2.20	0.42
1:0L:174:LEU:O	1:0L:178:GLU:HG2	2.19	0.42
1:0L:347:GLU:OE1	1:0L:353:LYS:HG2	2.19	0.42
1:0M:421:VAL:HG22	1:0M:432:MET:HA	2.01	0.42
1:0N:21:VAL:HG21	1:0N:57:ILE:HG23	2.01	0.42
1:0O:85:LEU:O	1:0O:89:VAL:HG13	2.20	0.42
1:0O:260:LEU:HD11	1:0O:298:LEU:HD23	2.01	0.42
1:0P:34:ILE:HG23	1:0P:68:LEU:HD22	2.02	0.42
1:0P:83:GLU:C	1:0P:86:PRO:HD2	2.44	0.42
1:0Q:29:LYS:HD2	1:0Q:29:LYS:HA	1.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Q:262:PHE:HB2	1:0Q:267:VAL:HG21	2.01	0.42
1:0Q:344:LEU:HD21	1:0Q:356:THR:OG1	2.20	0.42
1:0Q:408:ILE:HG23	1:0Q:431:LYS:HA	2.01	0.42
1:0V:332:ILE:HD11	1:0V:363:ILE:HG21	2.01	0.42
1:1A:13:TYR:O	1:1A:17:ARG:HG3	2.19	0.42
1:1A:85:LEU:O	1:1A:89:VAL:HG13	2.20	0.42
1:1A:105:PHE:CE1	5:1L:592:ALA:HB1	2.55	0.42
1:1B:12:ARG:O	1:1B:16:GLU:HG2	2.19	0.42
1:1C:269:LYS:HB3	1:1C:269:LYS:HE2	1.79	0.42
2:1E:49:GLN:HG3	2:1E:51:VAL:H	1.85	0.42
2:1G:35:PHE:HA	2:1G:38:VAL:HG22	2.01	0.42
2:1G:137:PHE:O	2:1G:141:VAL:HG23	2.19	0.42
3:1H:983:ARG:O	3:1H:987:VAL:HG23	2.19	0.42
3:1I:205:PRO:HB2	3:1I:210:GLN:HE21	1.83	0.42
3:1I:649:SER:OG	3:1I:650:PRO:HD3	2.19	0.42
3:1I:897:GLY:HA3	3:1I:1032:LEU:HD11	2.01	0.42
4:1J:87:PHE:HA	4:1J:112:ARG:O	2.19	0.42
4:1K:254:VAL:HG11	4:1K:282:LEU:CD2	2.49	0.42
5:1M:560:MET:HE1	13:1f:265:ILE:HD13	2.02	0.42
7:1O:925:LEU:HD11	7:1O:949:ALA:HB2	2.00	0.42
7:1O:2470:PRO:HB2	7:1O:2526:LEU:HG	2.02	0.42
7:1O:3075:SER:HA	7:1O:3097:THR:HA	2.00	0.42
8:1P:868:TRP:HE1	8:1P:983:HIS:HB3	1.84	0.42
10:1R:383:GLY:C	13:Bb:176:GLN:NE2	2.77	0.42
10:1R:395:VAL:HG21	13:Bb:338:LYS:HG3	2.01	0.42
10:1S:374:HIS:O	10:1S:375:GLU:HB2	2.20	0.42
10:1S:392:LEU:HD12	10:1S:392:LEU:HA	1.69	0.42
13:1b:224:TYR:HE2	12:1c:246:LEU:HB2	1.83	0.42
13:1f:371:VAL:HG22	13:1f:373:ARG:H	1.84	0.42
14:2F:115:GLN:OE1	12:Ba:75:SER:HB2	2.19	0.42
14:2G:112:GLY:HA2	13:Bf:47:ASP:HB3	2.02	0.42
15:2H:39:UNK:HA	12:Dg:279:GLN:NE2	2.33	0.42
22:2P:17:UNK:O	12:6g:291:GLN:NE2	2.52	0.42
23:2Q:21:UNK:C	13:2h:123:ARG:HH22	2.33	0.42
13:2b:147:SER:HB2	13:2b:190:SER:HB3	2.01	0.42
12:2c:179:VAL:O	12:2c:388:MET:HE1	2.19	0.42
12:2c:229:ILE:O	12:2c:233:MET:HG3	2.19	0.42
13:2d:371:VAL:HG22	13:2d:373:ARG:H	1.85	0.42
12:2e:21:TRP:CD1	12:2e:85:PHE:HE1	2.37	0.42
12:2e:214:THR:HB	12:2e:297:LYS:HZ2	1.83	0.42
13:2f:52:PHE:HZ	13:2f:239:THR:HG21	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2h:371:VAL:HG22	13:2h:373:ARG:H	1.85	0.42
30:3F:515:ALA:O	30:3F:519:VAL:HG23	2.20	0.42
30:3G:725:TYR:CZ	13:6b:112:LYS:HD2	2.54	0.42
31:3H:166:ARG:O	31:3H:170:THR:HG23	2.20	0.42
31:3H:246:TYR:OH	32:3J:305:MET:HE1	2.19	0.42
32:3K:41:THR:HG23	32:3K:132:LEU:HD13	2.02	0.42
32:3K:48:PRO:HG2	32:3K:66:LEU:HA	2.01	0.42
34:3M:477:GLU:OE1	34:3M:481:LEU:HD22	2.20	0.42
34:3N:278:SER:O	34:3N:282:GLN:HG2	2.20	0.42
34:3N:287:CYS:SG	34:3N:445:TYR:HB2	2.59	0.42
34:3P:40:ASN:O	34:3P:44:LYS:HG3	2.19	0.42
34:3P:259:MET:HA	34:3P:262:THR:HG22	2.02	0.42
34:3Q:294:HIS:CE1	34:3Q:433:TYR:CD1	3.07	0.42
34:3S:270:ILE:O	34:3S:274:ILE:HG13	2.19	0.42
34:3T:266:HIS:CE1	34:3T:270:ILE:HD11	2.55	0.42
34:3T:471:ARG:HH11	34:3T:471:ARG:HG2	1.84	0.42
34:3T:481:LEU:HA	34:3T:484:GLU:CG	2.49	0.42
34:3W:388:ALA:HB2	37:4G:846:PRO:HG3	2.01	0.42
12:3a:197:ASP:OD2	12:3a:198:GLU:N	2.52	0.42
12:3g:284:LEU:HD23	12:3g:362:LYS:HB3	2.01	0.42
13:3h:196:GLU:HB2	39:4Q:173:ALA:CB	2.49	0.42
34:4B:75:GLN:HA	34:4B:415:TYR:CE1	2.54	0.42
34:4B:352:LEU:O	34:4B:355:SER:N	2.53	0.42
35:4C:338:SER:HB2	35:4C:358:THR:HG1	1.83	0.42
35:4C:833:ALA:HB3	35:4C:866:LEU:HD21	2.00	0.42
36:4D:233:LEU:HD23	36:4D:233:LEU:HA	1.85	0.42
37:4E:1092:LEU:HD21	37:4E:1135:PHE:CZ	2.54	0.42
37:4E:1154:ARG:NE	37:4E:1156:LEU:HD21	2.34	0.42
37:4E:1165:ARG:NH2	38:4O:32:GLU:CD	2.77	0.42
37:4F:540:VAL:HG13	38:4N:69:CYS:HA	2.00	0.42
37:4F:542:ARG:HD2	38:4K:42:ILE:HG21	2.01	0.42
37:4F:759:PRO:HD2	37:4F:762:ALA:HB3	2.01	0.42
37:4F:885:MET:HE3	37:4F:917:PRO:O	2.19	0.42
37:4F:1083:ILE:HD12	38:4N:34:ALA:CA	2.49	0.42
37:4F:1323:ILE:N	37:4F:1323:ILE:CG1	2.82	0.42
37:4G:1076:THR:HG23	38:4L:38:VAL:HB	2.02	0.42
37:4G:1083:ILE:HG13	37:4G:1352:PRO:CB	2.19	0.42
37:4G:1091:VAL:O	37:4G:1092:LEU:HB3	2.20	0.42
37:4G:1301:ASP:HB3	37:4G:1303:VAL:HG22	2.01	0.42
37:4H:536:LEU:C	37:4H:540:VAL:HG23	2.44	0.42
37:4H:780:ASP:CG	37:4H:782:PRO:HD2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:934:TRP:CD1	37:4H:1463:CYS:SG	3.13	0.42
37:4H:1332:SER:HA	37:4H:1342:LEU:CD2	2.45	0.42
37:4H:1349:THR:C	37:4H:1350:ILE:CG1	2.93	0.42
38:4I:63:GLN:OE1	38:4I:87:HIS:NE2	2.52	0.42
38:4J:26:GLU:CD	38:4J:26:GLU:CB	2.70	0.42
38:4K:28:VAL:HG23	42:5G:96:ALA:HB1	2.01	0.42
38:4M:26:GLU:O	38:4M:29:LYS:N	2.53	0.42
39:4R:50:ARG:NH2	44:5T:46:ASN:OD1	2.53	0.42
39:4R:126:LYS:HD2	39:4R:126:LYS:HA	1.56	0.42
39:4S:100:GLN:NE2	44:5N:118:GLU:O	2.52	0.42
40:4T:671:PHE:HA	40:4T:674:ALA:HB2	2.02	0.42
13:4b:33:ASP:OD2	13:4b:35:GLN:NE2	2.53	0.42
13:4b:174:SER:OG	13:4b:175:PRO:HD2	2.19	0.42
13:4d:33:ASP:OD2	13:4d:35:GLN:NE2	2.53	0.42
13:4d:301:MET:HE1	13:4d:377:MET:HE1	2.00	0.42
12:4e:377:MET:HE2	12:4e:377:MET:HB2	1.61	0.42
13:4f:144:GLY:N	54:4f:501:GTP:O2G	2.52	0.42
12:4g:68:LEU:HD21	12:4g:147:MET:SD	2.58	0.42
13:4h:33:ASP:OD2	13:4h:35:GLN:NE2	2.53	0.42
13:4h:301:MET:HE1	13:4h:377:MET:HE1	2.00	0.42
43:5I:17:SER:C	43:5I:18:ILE:HG13	2.38	0.42
44:5R:97:ASP:HB2	44:5R:104:ILE:HG22	2.02	0.42
44:5U:33:THR:HG22	44:5U:67:ILE:HD11	2.00	0.42
13:5d:371:VAL:HG22	13:5d:373:ARG:H	1.85	0.42
13:5f:107:HIS:O	13:5f:112:LYS:NZ	2.41	0.42
13:5h:371:VAL:HG22	13:5h:373:ARG:H	1.85	0.42
47:6A:430:GLU:HG3	48:6F:278:LEU:HD21	2.01	0.42
47:6B:901:LEU:HD13	47:6B:904:PHE:CZ	2.54	0.42
48:6F:620:LEU:HD13	48:6F:655:LEU:HG	2.02	0.42
49:6G:10:HIS:O	49:6G:12:LEU:HD12	2.19	0.42
49:6H:360:VAL:HG21	49:6H:412:MET:HE3	2.01	0.42
49:6I:117:ILE:HD11	49:6I:148:LEU:HD22	2.01	0.42
49:6I:194:ILE:HD12	49:6I:234:LEU:CD2	2.48	0.42
49:6I:360:VAL:HG21	49:6I:412:MET:HE3	2.01	0.42
49:6J:10:HIS:O	49:6J:12:LEU:HD12	2.19	0.42
49:6J:43:THR:CG2	49:6J:71:ARG:HB3	2.50	0.42
49:6J:70:THR:OG1	49:6J:75:PHE:HE2	2.02	0.42
50:6K:65:ARG:HG3	50:6K:93:PHE:HA	2.01	0.42
50:6K:519:ASP:OD1	50:6K:520:GLU:N	2.53	0.42
50:6L:519:ASP:OD1	50:6L:520:GLU:N	2.53	0.42
51:6M:1241:VAL:HG11	51:6M:1251:LYS:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6M:1314:ASP:OD1	51:6M:1315:CYS:N	2.53	0.42
51:6M:2104:GLU:OE2	51:6M:2105:GLU:N	2.48	0.42
51:6M:2169:ALA:HB1	51:6M:2173:ARG:NH2	2.34	0.42
51:6N:1314:ASP:OD1	51:6N:1315:CYS:N	2.53	0.42
51:6N:1974:ARG:HG3	51:6N:1976:ASN:HD21	1.84	0.42
51:6N:2137:ASP:OD1	51:6N:2289:VAL:HB	2.19	0.42
12:6a:171:PRO:HA	12:6a:181:GLU:OE2	2.19	0.42
13:6f:33:ASP:OD2	13:6f:35:GLN:NE2	2.53	0.42
12:6g:104:GLY:O	12:6g:147:MET:HG3	2.20	0.42
13:7b:145:THR:OG1	54:7b:501:GTP:O3B	2.31	0.42
13:7b:317:LEU:HB3	13:7b:319:TYR:CE1	2.53	0.42
13:7d:273:ALA:N	13:7d:375:VAL:O	2.48	0.42
13:7f:147:SER:HB2	13:7f:190:SER:HB3	2.01	0.42
13:7h:144:GLY:N	54:7h:501:GTP:O2G	2.53	0.42
13:7h:174:SER:OG	13:7h:175:PRO:HD2	2.19	0.42
12:8a:207:LEU:O	12:8a:210:ILE:HG12	2.18	0.42
12:8c:60:VAL:HG11	12:8c:86:ARG:NH1	2.34	0.42
12:8c:64:ILE:HD13	12:8c:120:VAL:HG22	2.01	0.42
13:8f:33:ASP:OD2	13:8f:35:GLN:NE2	2.53	0.42
12:8g:211:CYS:SG	12:8g:217:LEU:HD22	2.59	0.42
12:8g:211:CYS:SG	12:8g:220:PRO:HB3	2.60	0.42
13:8h:33:ASP:OD2	13:8h:35:GLN:NE2	2.53	0.42
13:9f:52:PHE:HZ	13:9f:239:THR:HG21	1.85	0.42
13:Ab:210:TYR:OH	12:Ac:323:THR:HG23	2.18	0.42
13:Ad:179:THR:OG1	54:Ae:501:GTP:O3'	2.37	0.42
13:Ad:237:SER:HA	13:Ad:320:ARG:HD2	2.02	0.42
12:Ae:39:ASP:OD1	12:Ae:40:SER:N	2.52	0.42
54:Af:501:GTP:O3G	12:Ag:252:LYS:HE2	2.19	0.42
13:Ah:237:SER:HA	13:Ah:320:ARG:HD2	2.02	0.42
13:Bb:371:VAL:HG22	13:Bb:373:ARG:H	1.85	0.42
12:Bc:171:PRO:HB3	12:Bc:181:GLU:HG2	2.01	0.42
13:Bd:179:THR:O	12:Be:350:LYS:HD2	2.20	0.42
12:Be:6:HIS:NE2	12:Be:136:CYS:SG	2.92	0.42
12:Be:139:LEU:O	12:Be:171:PRO:HD3	2.19	0.42
13:Bh:174:SER:OG	13:Bh:175:PRO:HD2	2.19	0.42
12:Ce:21:TRP:CD1	12:Ce:85:PHE:HE1	2.38	0.42
12:Ce:60:VAL:HG11	12:Ce:86:ARG:NH2	2.33	0.42
12:Ce:86:ARG:HD3	12:Ce:88:ASP:OD1	2.20	0.42
12:Ce:176:SER:OG	13:Cf:349:THR:HB	2.20	0.42
12:Ce:397:TRP:CZ2	13:Cf:260:VAL:HB	2.52	0.42
12:Da:6:HIS:NE2	12:Da:136:CYS:SG	2.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Db:52:PHE:HZ	13:Db:239:THR:HG21	1.85	0.42
13:Dd:301:MET:HE1	13:Dd:377:MET:HE1	2.00	0.42
13:Df:301:MET:HE1	13:Df:377:MET:HE1	2.00	0.42
13:Dh:217:LEU:HG	13:Dh:277:SER:HB3	2.01	0.42
13:Dh:317:LEU:HB3	13:Dh:319:TYR:CE1	2.53	0.42
1:0H:301:TYR:CE2	1:0H:310:ARG:HA	2.55	0.42
1:0H:358:TRP:CD1	1:0H:362:GLN:HE22	2.36	0.42
1:0J:43:MET:HE1	1:0J:78:ALA:HB3	2.01	0.42
1:0J:94:GLU:CD	1:0J:99:TYR:HE2	2.28	0.42
1:0I:359:THR:HA	1:0I:362:GLN:OE1	2.18	0.42
1:0K:153:ALA:O	1:0K:197:HIS:NE2	2.53	0.42
1:0K:285:LEU:O	1:0K:289:VAL:HG23	2.19	0.42
1:0B:28:ALA:O	1:0B:34:ILE:HD11	2.20	0.42
1:0C:168:ALA:O	1:0C:172:LEU:HG	2.19	0.42
1:0D:44:ALA:O	1:0D:48:PRO:HD3	2.20	0.42
1:0D:92:LEU:HB2	1:0D:129:SER:OG	2.20	0.42
1:0D:213:TYR:O	1:0D:216:PRO:HD2	2.20	0.42
1:0D:230:CYS:HB2	1:0D:270:HIS:HB3	2.01	0.42
1:0G:241:VAL:HG22	1:0G:281:HIS:HD2	1.83	0.42
1:0M:82:ASN:HB2	1:0M:84:ILE:HD12	2.02	0.42
1:0N:17:ARG:NH1	1:0N:52:ASP:OD1	2.52	0.42
1:0O:252:ILE:HG22	1:0O:256:ILE:HG12	2.01	0.42
1:0P:76:ALA:O	1:0P:80:VAL:HG23	2.19	0.42
1:0P:301:TYR:CE2	1:0P:310:ARG:HA	2.55	0.42
1:0Q:255:LYS:H	1:0Q:255:LYS:HD2	1.84	0.42
1:0R:175:CYS:HB2	1:0R:187:ALA:HB2	2.01	0.42
1:0S:275:VAL:HG13	1:0S:289:VAL:HG11	2.01	0.42
1:0S:338:PRO:HB2	1:0S:339:PRO:HD3	2.01	0.42
1:0U:336:ALA:O	1:0U:340:LEU:HG	2.20	0.42
1:0V:134:LEU:HB3	1:0V:171:LEU:HD12	2.02	0.42
1:0X:109:ALA:O	1:0X:113:HIS:CD2	2.72	0.42
1:0Y:220:ASN:OD1	1:0Y:225:LEU:HD22	2.19	0.42
1:0Z:28:ALA:O	1:0Z:34:ILE:HD11	2.20	0.42
1:1A:242:ASP:O	1:1A:246:VAL:HG23	2.19	0.42
1:1B:127:LEU:CD1	1:1B:162:GLN:OE1	2.68	0.42
1:1C:17:ARG:O	1:1C:21:VAL:HG22	2.19	0.42
1:1C:108:ARG:HD3	1:1C:147:TRP:HB3	2.00	0.42
2:1D:240:VAL:HG12	2:1D:253:ALA:HB3	2.01	0.42
2:1G:352:PRO:O	2:1G:356:LYS:HG3	2.19	0.42
2:1G:356:LYS:HE3	3:1I:915:TRP:CZ3	2.55	0.42
3:1H:561:GLU:OE2	3:1H:612:VAL:HG13	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1H:679:GLU:HG3	3:1H:751:VAL:HG22	2.02	0.42
3:1H:799:PRO:HA	47:6A:374:LEU:HD21	2.01	0.42
3:1H:953:ILE:HA	47:6A:384:GLU:OE2	2.20	0.42
3:1H:1007:ARG:NH2	48:6F:333:LEU:HD12	2.35	0.42
3:1I:927:SER:OG	3:1I:930:LYS:HG3	2.20	0.42
4:1J:229:LEU:CD2	4:1J:270:ILE:HG22	2.46	0.42
4:1J:254:VAL:HG11	4:1J:282:LEU:CD2	2.50	0.42
5:1M:453:VAL:HB	5:1M:461:ILE:HG22	2.01	0.42
5:1M:525:LYS:HD2	13:1f:155:GLU:OE2	2.20	0.42
6:1N:175:VAL:HG13	6:1N:192:TYR:HE1	1.84	0.42
6:1N:1181:LEU:HD11	6:1N:1192:MET:HG3	2.01	0.42
6:1N:2613:ALA:O	6:1N:2614:THR:OG1	2.27	0.42
7:1O:1393:PRO:HG2	44:5V:82:GLU:HG2	2.00	0.42
7:1O:1769:ASN:OD1	8:1P:837:ARG:NH2	2.53	0.42
7:1O:1839:LEU:CD1	7:1O:1925:MET:HB3	2.50	0.42
7:1O:2502:LEU:HB3	8:1P:800:TYR:OH	2.19	0.42
7:1O:3053:GLY:HA3	7:1O:3056:ASP:CG	2.44	0.42
8:1P:734:LEU:HD12	8:1P:736:TYR:HE1	1.85	0.42
10:1R:419:CYS:SG	10:1R:422:GLY:N	2.88	0.42
10:1S:57:LYS:NZ	13:Ah:339:ARG:HG3	2.34	0.42
12:1a:6:HIS:NE2	12:1a:136:CYS:SG	2.92	0.42
13:1b:100:ALA:HB1	12:1c:252:LYS:HA	2.02	0.42
13:1d:371:VAL:HG22	13:1d:373:ARG:H	1.85	0.42
13:1f:317:LEU:HB3	13:1f:319:TYR:CE1	2.53	0.42
12:1g:172:SER:HB2	12:1g:205:GLU:HB2	2.01	0.42
13:1h:144:GLY:N	54:1h:501:GTP:O2G	2.52	0.42
13:1h:371:VAL:HG22	13:1h:373:ARG:H	1.85	0.42
17:2J:24:UNK:C	17:2J:26:UNK:N	2.82	0.42
18:2L:44:UNK:HA	12:5e:320:ARG:HH12	1.83	0.42
23:2R:82:UNK:HA	12:3a:297:LYS:HZ3	1.85	0.42
24:2U:150:PHE:HB3	24:2U:151:PHE:CD2	2.55	0.42
12:2a:201:VAL:HG22	12:2a:266:PHE:O	2.20	0.42
12:2a:396:HIS:CD2	13:2b:262:TYR:HA	2.55	0.42
12:2a:417:ASP:O	12:2a:421:GLU:HG2	2.19	0.42
12:2e:6:HIS:NE2	12:2e:136:CYS:SG	2.93	0.42
12:2e:102:ALA:HB2	12:2e:398:TYR:CD2	2.54	0.42
13:2f:33:ASP:OD2	13:2f:35:GLN:NE2	2.53	0.42
12:2g:219:THR:HG22	13:2h:324:VAL:HG21	2.02	0.42
13:2h:273:ALA:N	13:2h:375:VAL:O	2.48	0.42
30:3F:258:ARG:O	13:6d:430:LYS:NZ	2.46	0.42
31:3I:157:ARG:CZ	31:3I:160:PRO:HA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:3L:77:ASN:O	33:3L:100:ASN:HA	2.20	0.42
34:3M:81:GLU:OE2	34:3M:317:ARG:NE	2.53	0.42
34:3P:107:TYR:O	34:3P:111:ILE:HG23	2.19	0.42
34:3P:338:LEU:HD12	34:3P:393:ALA:HB1	2.01	0.42
34:3Q:100:ILE:HA	34:3Q:103:LEU:HD12	2.00	0.42
34:3Q:342:GLN:HE22	34:3Q:390:LEU:CD1	2.26	0.42
34:3R:378:SER:O	34:3R:382:LEU:HD13	2.19	0.42
34:3T:439:PRO:O	34:3T:443:ARG:HG3	2.19	0.42
34:3V:270:ILE:HA	34:3V:273:ARG:HG2	2.02	0.42
34:3W:71:LEU:O	34:3W:75:GLN:HG3	2.19	0.42
34:3W:352:LEU:O	34:3W:355:SER:N	2.53	0.42
34:3W:366:VAL:HG11	37:4G:908:ALA:CB	2.46	0.42
34:3Y:254:MET:O	34:3Y:258:TYR:CD2	2.72	0.42
13:3b:403:ALA:HB2	12:3c:344:TRP:CZ3	2.54	0.42
12:3c:107:THR:OG1	12:3c:108:GLU:N	2.53	0.42
12:3c:364:SER:OG	12:3c:365:ALA:N	2.51	0.42
13:3d:174:SER:OG	13:3d:175:PRO:HD2	2.19	0.42
12:3e:27:GLU:OE1	12:3e:359:LYS:HE2	2.20	0.42
13:3f:174:SER:OG	13:3f:175:PRO:HD2	2.19	0.42
13:3f:210:TYR:CG	12:3g:324:LYS:HD3	2.55	0.42
13:3f:301:MET:HE1	13:3f:377:MET:HE1	2.00	0.42
34:4B:501:ASP:O	34:4B:505:THR:HG23	2.18	0.42
35:4C:824:VAL:O	35:4C:875:GLU:HG3	2.20	0.42
37:4E:578:ASP:CB	43:5L:31:ASP:OD1	2.68	0.42
37:4E:614:THR:O	37:4E:614:THR:HG22	2.19	0.42
37:4E:1071:THR:HG21	37:4E:1458:PRO:HG3	2.02	0.42
37:4E:1120:GLY:HA2	43:5L:140:LYS:HZ3	1.83	0.42
37:4E:1441:LEU:HA	37:4E:1441:LEU:HD23	1.74	0.42
37:4F:1156:LEU:HD13	37:4F:1317:ASP:HB3	2.02	0.42
37:4F:1344:SER:OG	37:4F:1346:ALA:O	2.37	0.42
37:4G:666:THR:HG23	37:4G:677:THR:HB	2.00	0.42
37:4G:748:TYR:CE1	37:4G:1791:ILE:HG23	2.54	0.42
37:4G:970:SER:CB	37:4G:1074:GLN:CG	2.80	0.42
37:4G:1136:ARG:HG2	37:4G:1146:SER:CB	2.49	0.42
37:4G:1314:LEU:HD21	37:4G:1753:GLN:OE1	2.19	0.42
37:4H:403:ASP:OD2	37:4H:404:ALA:N	2.52	0.42
37:4H:574:LEU:CD2	42:5F:130:ALA:HB2	2.50	0.42
37:4H:958:LEU:HD23	37:4H:960:LEU:HB2	2.02	0.42
37:4H:1074:GLN:CG	38:4M:38:VAL:CG1	2.98	0.42
37:4H:1086:THR:OG1	37:4H:1088:ASP:O	2.24	0.42
37:4H:1333:VAL:CA	38:4M:24:THR:O	2.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1734:PHE:HD2	37:4H:1736:ARG:HH12	1.61	0.42
38:4I:38:VAL:CG1	38:4I:41:LYS:HB3	2.50	0.42
38:4J:26:GLU:O	38:4J:29:LYS:N	2.53	0.42
38:4J:31:ALA:O	38:4J:32:GLU:C	2.60	0.42
38:4J:63:GLN:OE1	38:4J:87:HIS:NE2	2.52	0.42
38:4P:80:LEU:O	38:4P:84:LEU:HG	2.18	0.42
39:4Q:16:ILE:CD1	43:5I:124:MET:HE1	2.50	0.42
39:4Q:63:ILE:HD11	44:5P:92:ALA:HB1	2.00	0.42
39:4R:67:TRP:CH2	44:5Q:128:MET:HA	2.55	0.42
39:4R:171:SER:HB2	39:4R:199:GLU:OE2	2.20	0.42
40:4T:634:ARG:O	40:4T:635:LEU:HG	2.19	0.42
40:4T:715:VAL:CG2	40:4T:720:LEU:HG	2.49	0.42
40:4U:450:LEU:HD22	40:4U:456:LEU:HD22	2.01	0.42
40:4U:634:ARG:O	40:4U:635:LEU:HG	2.19	0.42
40:4U:671:PHE:HA	40:4U:674:ALA:HB2	2.02	0.42
40:4U:715:VAL:CG2	40:4U:720:LEU:HG	2.49	0.42
40:4U:731:LYS:HE2	40:4U:731:LYS:HB2	1.88	0.42
40:4V:224:TYR:HB2	40:4V:259:THR:OG1	2.20	0.42
40:4V:671:PHE:HA	40:4V:674:ALA:HB2	2.02	0.42
41:4W:167:PRO:CA	43:5L:153:SER:O	2.67	0.42
41:4Y:144:HIS:HA	41:4Y:162:PHE:HA	2.00	0.42
41:4Z:153:ARG:O	43:5K:95:ARG:NH1	2.53	0.42
41:4Z:169:LEU:N	43:5K:152:LEU:O	2.39	0.42
12:4a:101:TRP:NE1	12:4a:188:SER:OG	2.53	0.42
12:4c:127:CYS:C	12:4c:129:CYS:H	2.27	0.42
13:4f:174:SER:OG	13:4f:175:PRO:HD2	2.19	0.42
42:5F:148:GLN:HG3	43:5J:144:TYR:CE1	2.55	0.42
42:5H:53:TYR:CE1	42:5H:133:LEU:HB2	2.54	0.42
12:5a:16:ILE:HD11	12:5a:229:ILE:CG2	2.50	0.42
12:5a:52:ASN:HB3	12:5a:60:VAL:CG2	2.50	0.42
12:5a:328:GLU:O	12:5a:331:LEU:HG	2.19	0.42
13:5b:317:LEU:HB3	13:5b:319:TYR:CE1	2.53	0.42
12:5c:330:MET:HB3	12:5c:349:VAL:HG11	2.00	0.42
12:5e:91:VAL:HG23	12:5e:91:VAL:O	2.18	0.42
13:5f:144:GLY:N	54:5f:501:GTP:O2G	2.52	0.42
13:5h:217:LEU:HG	13:5h:277:SER:HB3	2.01	0.42
47:6A:57:ILE:HG21	47:6A:157:ARG:HG3	2.02	0.42
47:6A:173:ALA:O	47:6A:177:GLU:HB2	2.19	0.42
47:6A:774:ALA:O	47:6A:778:VAL:HG23	2.19	0.42
47:6A:1361:PRO:O	47:6A:1364:VAL:HG22	2.20	0.42
47:6B:205:ARG:HD3	47:6B:209:MET:CE	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6B:1089:LYS:HG2	47:6B:1089:LYS:HZ2	1.63	0.42
47:6B:1361:PRO:O	47:6B:1364:VAL:HG22	2.20	0.42
3:6D:614:LEU:HD21	3:6D:656:TYR:CE1	2.55	0.42
48:6E:108:LEU:HD22	48:6E:114:LEU:HD21	2.02	0.42
48:6E:777:LEU:HD12	48:6E:783:TYR:CD2	2.54	0.42
48:6F:74:SER:HA	48:6F:96:VAL:HB	2.00	0.42
48:6F:83:ALA:HB1	48:6F:86:LEU:HD12	2.01	0.42
48:6F:793:LEU:HD12	48:6F:814:VAL:HG11	2.02	0.42
49:6G:43:THR:HA	49:6G:44:PRO:HD3	1.92	0.42
49:6I:43:THR:CG2	49:6I:71:ARG:HB3	2.50	0.42
50:6L:460:ASN:OD1	50:6L:461:LEU:N	2.52	0.42
51:6M:2014:LEU:HD13	51:6M:2032:TYR:CE1	2.54	0.42
51:6N:1575:PRO:HD3	51:6N:1923:ARG:HB3	2.02	0.42
52:6O:47:UNK:O	52:6O:48:UNK:C	2.67	0.42
12:6a:34:GLY:HA3	12:6a:58:ARG:HG3	2.01	0.42
12:6a:327:ASP:OD1	12:6a:331:LEU:HD13	2.19	0.42
13:6b:33:ASP:OD2	13:6b:35:GLN:NE2	2.53	0.42
13:6d:33:ASP:OD2	13:6d:35:GLN:NE2	2.53	0.42
13:6h:33:ASP:OD2	13:6h:35:GLN:NE2	2.53	0.42
12:7a:210:ILE:HG22	12:7a:297:LYS:O	2.19	0.42
13:7b:147:SER:HB2	13:7b:190:SER:HB3	2.01	0.42
12:7c:86:ARG:NH1	12:8c:281:TYR:O	2.52	0.42
12:7c:256:ASN:ND2	12:7c:350:LYS:HE3	2.35	0.42
13:7d:52:PHE:HZ	13:7d:239:THR:HG21	1.85	0.42
12:7e:204:ASN:HD21	53:7e:502:GDP:HN22	1.68	0.42
12:7e:284:LEU:HB2	12:7e:362:LYS:NZ	2.34	0.42
13:7f:273:ALA:N	13:7f:375:VAL:O	2.48	0.42
13:7f:317:LEU:HB3	13:7f:319:TYR:CE1	2.53	0.42
13:8b:33:ASP:OD2	13:8b:35:GLN:NE2	2.53	0.42
13:8d:33:ASP:OD2	13:8d:35:GLN:NE2	2.53	0.42
13:8d:174:SER:OG	13:8d:175:PRO:HD2	2.19	0.42
13:8d:317:LEU:HB3	13:8d:319:TYR:CE1	2.53	0.42
12:8g:116:VAL:O	12:8g:119:VAL:HG12	2.19	0.42
12:9a:174:LYS:HZ1	13:9b:336:LYS:HB2	1.84	0.42
13:9b:33:ASP:OD2	13:9b:35:GLN:NE2	2.53	0.42
12:9c:68:LEU:HD21	12:9c:147:MET:SD	2.60	0.42
12:9c:177:ASP:OD2	13:9d:248:LEU:HD21	2.20	0.42
13:9d:174:SER:OG	13:9d:175:PRO:HD2	2.19	0.42
13:9f:33:ASP:OD2	13:9f:35:GLN:NE2	2.53	0.42
12:9g:67:ASP:O	12:9g:92:PHE:HA	2.19	0.42
13:9h:217:LEU:HG	13:9h:277:SER:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ab:217:LEU:HG	13:Ab:277:SER:HB3	2.01	0.42
13:Ad:147:SER:HB2	13:Ad:190:SER:HB3	2.01	0.42
13:Ad:217:LEU:HG	13:Ad:277:SER:HB3	2.01	0.42
13:Af:179:THR:OG1	54:Af:501:GTP:O3'	2.37	0.42
13:Af:371:VAL:HG22	13:Af:373:ARG:H	1.85	0.42
13:Ah:33:ASP:OD2	13:Ah:35:GLN:NE2	2.53	0.42
13:Ah:144:GLY:N	54:Ah:501:GTP:O2G	2.53	0.42
12:Ba:151:LEU:O	12:Ba:155:ILE:HG12	2.19	0.42
12:Ba:279:GLN:C	12:Ba:281:TYR:N	2.77	0.42
12:Be:73:MET:CE	12:Be:92:PHE:HB3	2.45	0.42
12:Be:395:LEU:HD11	12:Be:405:GLU:OE1	2.20	0.42
12:Ca:21:TRP:CD1	12:Ca:85:PHE:HE1	2.38	0.42
12:Ca:232:VAL:HG22	12:Ca:270:PHE:HB2	2.00	0.42
12:Ca:286:VAL:O	12:Ca:290:THR:HG23	2.20	0.42
13:Cb:144:GLY:N	54:Cc:501:GTP:O2G	2.52	0.42
12:Cc:262:ARG:HA	12:Cc:264:HIS:CD2	2.54	0.42
12:Cg:11:GLN:HE22	13:Ch:249:ASN:H	1.66	0.42
12:Da:3:GLU:HB3	12:Da:62:ARG:NH2	2.35	0.42
12:Da:99:ASN:HD22	13:Db:258:ASN:ND2	2.09	0.42
12:Da:257:LEU:HA	12:Da:312:THR:HG21	2.01	0.42
12:Dc:48:ASN:O	12:Dc:62:ARG:NH2	2.42	0.42
12:Dc:64:ILE:HD13	12:Dc:120:VAL:HG22	2.01	0.42
12:De:180:VAL:HG23	12:De:183:TYR:HD2	1.84	0.42
1:0J:28:ALA:HA	1:0J:34:ILE:HG12	2.02	0.42
1:0J:231:CYS:O	1:0J:235:GLN:HG2	2.19	0.42
1:0K:28:ALA:HB1	1:0K:67:ARG:HB2	2.01	0.42
1:0K:386:LEU:HB3	1:0K:396:LEU:HD11	2.01	0.42
44:5P:89:LEU:HD23	44:5P:146:VAL:HG13	2.01	0.42
1:0A:3:THR:OG1	1:0A:4:ARG:N	2.53	0.42
1:0A:336:ALA:O	1:0A:340:LEU:HD13	2.20	0.42
1:0C:28:ALA:O	1:0C:34:ILE:HD11	2.20	0.42
1:0C:137:PHE:HE1	5:1M:91:THR:HA	1.81	0.42
1:0E:182:SER:O	1:0E:185:ARG:HG3	2.20	0.42
1:0E:414:LEU:HD21	1:0E:438:GLY:C	2.44	0.42
1:0F:248:VAL:HA	1:0F:253:PHE:CE2	2.54	0.42
1:0G:338:PRO:HB2	1:0G:339:PRO:HD3	2.02	0.42
1:0L:153:ALA:O	1:0L:197:HIS:CD2	2.73	0.42
1:0M:394:ASP:OD2	1:0M:394:ASP:N	2.45	0.42
1:0N:70:ASN:OD1	1:0N:112:ARG:NH2	2.52	0.42
1:0O:174:LEU:HD13	1:0O:177:GLN:OE1	2.19	0.42
1:0O:210:ALA:O	1:0O:214:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0O:379:CYS:O	1:0O:383:LEU:HG	2.19	0.42
1:0P:218:VAL:HG12	1:0P:255:LYS:HB3	2.01	0.42
1:0Q:6:VAL:O	1:0Q:7:LEU:C	2.62	0.42
1:0R:357:ALA:O	1:0R:403:ALA:HB2	2.20	0.42
1:0S:18:VAL:HG22	1:0S:57:ILE:HG12	2.02	0.42
1:0U:338:PRO:HB2	1:0U:339:PRO:HD3	2.00	0.42
1:0Y:336:ALA:C	1:0Y:339:PRO:HD2	2.44	0.42
1:1A:44:ALA:O	1:1A:48:PRO:HD3	2.20	0.42
1:1A:118:ALA:HB1	1:1A:152:ILE:HG12	2.02	0.42
1:1B:308:ASN:HB3	1:1B:349:GLU:OE1	2.19	0.42
1:1B:343:ALA:C	1:1B:347:GLU:HG3	2.45	0.42
1:1C:15:LYS:HA	1:1C:18:VAL:HG12	2.01	0.42
2:1F:139:ARG:NH2	2:1F:176:HIS:HB3	2.35	0.42
3:1H:206:ASP:O	47:6A:291:GLN:NE2	2.52	0.42
3:1H:813:VAL:HG11	3:1H:852:ASP:HB3	2.00	0.42
3:1H:950:ILE:H	3:1H:950:ILE:HG13	1.71	0.42
3:1I:125:GLN:O	3:1I:129:VAL:HG13	2.20	0.42
3:1I:854:LEU:HD23	3:1I:854:LEU:HA	1.86	0.42
4:1J:207:THR:HG22	4:1J:261:THR:HG22	2.02	0.42
4:1K:87:PHE:HA	4:1K:112:ARG:O	2.19	0.42
4:1K:207:THR:HG22	4:1K:261:THR:HG22	2.02	0.42
5:1L:222:LEU:HA	5:1L:238:THR:H	1.83	0.42
6:1N:90:GLN:NE2	8:1P:765:ALA:O	2.52	0.42
6:1N:2494:GLU:OE2	6:1N:2725:LEU:HD13	2.19	0.42
7:1O:910:PRO:HA	7:1O:911:PRO:HD3	1.93	0.42
7:1O:1755:LEU:HD23	7:1O:1759:LEU:HD22	2.00	0.42
10:1R:421:THR:HG22	12:Aa:92:PHE:HE2	1.84	0.42
10:1R:438:THR:HG22	10:1R:438:THR:O	2.19	0.42
10:1S:149:ARG:CZ	10:1S:153:GLY:HA2	2.50	0.42
10:1S:436:GLN:NE2	12:Be:281:TYR:CE2	2.85	0.42
12:1a:207:LEU:HA	12:1a:210:ILE:HG12	2.01	0.42
13:1b:52:PHE:HZ	13:1b:239:THR:HG21	1.84	0.42
13:1f:174:SER:OG	13:1f:175:PRO:HD2	2.19	0.42
14:2F:47:GLY:HA3	13:Db:357:TYR:HB3	2.00	0.42
14:2F:51:GLU:OE2	14:2F:54:ARG:NH2	2.52	0.42
14:2F:152:ALA:O	14:2F:154:ARG:NH2	2.52	0.42
14:2G:152:ALA:O	14:2G:154:ARG:NH2	2.52	0.42
24:2U:196:GLU:OE2	24:2U:200:ARG:HD3	2.19	0.42
12:2a:171:PRO:HA	12:2a:181:GLU:OE2	2.20	0.42
12:2a:286:VAL:O	12:2a:290:THR:HG23	2.19	0.42
13:2d:90:GLU:OE1	13:2d:121:ARG:NE	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2h:33:ASP:OD2	13:2h:35:GLN:NE2	2.53	0.42
30:3F:342:ARG:HH12	30:3F:344:ASN:ND2	2.15	0.42
30:3F:382:TRP:CZ3	13:8f:339:ARG:HG3	2.54	0.42
30:3F:409:GLN:HE22	12:7e:153:SER:CB	2.31	0.42
31:3H:179:LEU:HD23	31:3H:183:ARG:HH21	1.84	0.42
31:3H:236:ARG:O	31:3H:239:GLU:HG3	2.20	0.42
31:3I:180:GLU:O	31:3I:184:GLN:HG3	2.18	0.42
32:3J:389:LEU:HD22	32:3J:394:GLU:HB3	2.00	0.42
32:3J:407:ARG:HB3	32:3J:410:ASP:CG	2.43	0.42
32:3K:57:GLU:CD	32:3K:60:LYS:HE2	2.44	0.42
33:3L:87:GLU:CA	33:3L:115:PHE:HZ	2.33	0.42
34:3M:60:TYR:HE1	34:3M:298:ALA:HB1	1.85	0.42
34:3O:349:LEU:HD23	34:3O:382:LEU:HD13	2.02	0.42
34:3O:450:SER:HA	34:3O:453:ARG:HD2	2.01	0.42
34:3P:462:GLU:HG2	34:3P:465:LYS:HE3	2.02	0.42
34:3R:254:MET:O	34:3R:258:TYR:CD2	2.72	0.42
34:3S:40:ASN:HB3	34:3U:84:GLU:OE2	2.20	0.42
34:3T:433:TYR:CE2	34:3T:438:ILE:HD11	2.55	0.42
34:3V:194:ARG:O	34:3V:195:THR:OG1	2.35	0.42
34:3W:74:LEU:HD11	34:3W:191:ALA:CB	2.48	0.42
34:3W:122:GLN:HE22	34:3W:357:LEU:HA	1.84	0.42
13:3b:174:SER:OG	13:3b:175:PRO:HD2	2.19	0.42
12:3c:64:ILE:HD13	12:3c:120:VAL:HG22	2.01	0.42
12:3c:102:ALA:HB2	12:3c:403:MET:SD	2.60	0.42
12:3g:68:LEU:HB3	12:3g:96:GLY:HA2	2.02	0.42
13:3h:301:MET:HE1	13:3h:377:MET:HE1	2.00	0.42
34:4B:388:ALA:HB2	37:4H:846:PRO:HG3	2.02	0.42
35:4C:456:PRO:HG3	35:4C:470:ASN:ND2	2.35	0.42
35:4C:801:GLY:HA2	37:4E:1685:LEU:HD13	2.02	0.42
35:4C:867:SER:HB3	35:4C:885:ARG:CD	2.49	0.42
35:4C:905:VAL:O	35:4C:1115:VAL:HA	2.19	0.42
36:4D:170:HIS:HB2	36:4D:202:LEU:HA	2.02	0.42
37:4E:584:ALA:HB1	43:5L:14:GLN:HB3	2.02	0.42
37:4E:1630:ASP:N	37:4E:1630:ASP:OD2	2.51	0.42
37:4E:1742:LYS:HA	37:4E:1742:LYS:HD2	1.86	0.42
37:4F:691:MET:HE2	37:4F:691:MET:HB2	1.92	0.42
37:4F:792:VAL:HG12	37:4F:798:MET:HG3	2.00	0.42
37:4F:1162:VAL:HG12	37:4F:1164:GLU:HG3	2.02	0.42
37:4G:528:SER:O	37:4G:531:LEU:HB3	2.19	0.42
37:4G:536:LEU:O	37:4G:537:LEU:C	2.61	0.42
37:4G:690:CYS:SG	38:4I:56:THR:N	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:1083:ILE:CA	38:4L:35:ALA:O	2.67	0.42
37:4H:510:HIS:CD2	38:4M:70:LYS:HE3	2.52	0.42
37:4H:616:TRP:HZ2	37:4H:1338:PHE:C	2.27	0.42
37:4H:671:LEU:HB3	38:4J:39:HIS:HB3	2.01	0.42
37:4H:974:VAL:HG12	37:4H:975:VAL:N	2.19	0.42
38:4K:60:VAL:CG1	38:4K:87:HIS:HB2	2.36	0.42
38:4L:26:GLU:O	38:4L:29:LYS:N	2.53	0.42
39:4Q:171:SER:HB2	39:4Q:199:GLU:OE2	2.20	0.42
39:4R:65:ARG:HD3	44:5Q:48:THR:CG2	2.48	0.42
39:4R:171:SER:OG	39:4R:172:THR:N	2.51	0.42
40:4T:224:TYR:HB2	40:4T:259:THR:OG1	2.20	0.42
40:4T:450:LEU:HD22	40:4T:456:LEU:HD22	2.01	0.42
40:4U:224:TYR:HB2	40:4U:259:THR:OG1	2.20	0.42
40:4U:259:THR:N	40:4U:262:GLN:HE21	2.11	0.42
40:4V:388:VAL:O	40:4V:392:LEU:HG	2.19	0.42
40:4V:501:ARG:HH12	40:4V:514:ASP:CG	2.25	0.42
40:4V:715:VAL:CG2	40:4V:720:LEU:HG	2.49	0.42
41:4X:123:LYS:HA	41:4X:137:GLN:HA	2.02	0.42
41:4Y:123:LYS:HA	41:4Y:137:GLN:HA	2.02	0.42
41:4Z:123:LYS:HA	41:4Z:137:GLN:HA	2.02	0.42
12:4a:204:ASN:HD21	53:4a:501:GDP:HN22	1.67	0.42
12:4e:164:MET:O	12:4e:166:THR:HG23	2.19	0.42
12:4g:229:ILE:O	12:4g:233:MET:HG3	2.19	0.42
43:5L:47:LYS:O	43:5L:48:THR:C	2.61	0.42
44:5R:141:ASN:HB3	44:5R:144:GLU:HB3	2.01	0.42
13:5d:33:ASP:OD2	13:5d:35:GLN:NE2	2.53	0.42
13:5d:273:ALA:N	13:5d:375:VAL:O	2.48	0.42
47:6A:282:LYS:O	47:6A:285:VAL:HG22	2.20	0.42
47:6A:901:LEU:HD13	47:6A:904:PHE:CZ	2.54	0.42
47:6B:57:ILE:HG21	47:6B:157:ARG:HG3	2.02	0.42
47:6B:173:ALA:O	47:6B:177:GLU:HB2	2.19	0.42
47:6B:282:LYS:O	47:6B:285:VAL:HG22	2.20	0.42
47:6B:1843:ARG:HH21	50:6K:577:GLU:HB3	1.83	0.42
3:6D:19:LEU:HA	3:6D:19:LEU:HD13	1.84	0.42
3:6D:992:GLN:NE2	3:6D:1011:GLU:O	2.52	0.42
48:6E:74:SER:HA	48:6E:96:VAL:HB	2.00	0.42
48:6E:222:SER:HB3	49:6G:463:GLU:OE1	2.20	0.42
48:6E:861:ALA:HB1	48:6E:887:PRO:HD2	2.02	0.42
48:6E:901:GLN:HB3	48:6E:902:PRO:HD3	2.02	0.42
48:6E:983:ILE:HG23	48:6E:1010:HIS:CE1	2.55	0.42
48:6F:56:LEU:HD22	48:6F:70:TYR:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:6F:108:LEU:HD22	48:6F:114:LEU:HD21	2.02	0.42
48:6F:223:LEU:HD22	48:6F:226:LEU:HD13	2.00	0.42
48:6F:237:VAL:CG1	48:6F:240:ASN:HD22	2.30	0.42
48:6F:861:ALA:HB1	48:6F:887:PRO:HD2	2.02	0.42
48:6F:901:GLN:HB3	48:6F:902:PRO:HD3	2.02	0.42
49:6H:10:HIS:O	49:6H:12:LEU:HD12	2.19	0.42
49:6H:136:MET:HE3	49:6H:136:MET:HB3	1.80	0.42
49:6J:394:ILE:O	49:6J:398:ILE:HG13	2.20	0.42
50:6K:223:PHE:CE2	50:6K:397:LEU:HD13	2.52	0.42
50:6K:460:ASN:OD1	50:6K:461:LEU:N	2.52	0.42
50:6L:279:THR:HG22	51:6M:1813:ARG:NH1	2.35	0.42
50:6L:514:GLY:O	50:6L:515:ARG:HG2	2.19	0.42
50:6L:596:GLU:HA	50:6L:599:GLU:HG2	2.02	0.42
51:6M:1575:PRO:HD3	51:6M:1923:ARG:HB3	2.02	0.42
51:6M:1595:MET:HE3	51:6M:1595:MET:HB3	1.67	0.42
51:6N:1595:MET:HE3	51:6N:1595:MET:HB3	1.67	0.42
12:6a:210:ILE:HG22	12:6a:297:LYS:O	2.19	0.42
13:6f:206:ASN:OD1	54:6g:501:GTP:N2	2.49	0.42
12:7a:16:ILE:HD11	12:7a:229:ILE:CG2	2.50	0.42
13:7b:144:GLY:N	54:7b:501:GTP:O2G	2.53	0.42
12:7e:68:LEU:HD23	12:7e:143:THR:HG23	2.01	0.42
12:7e:100:ASN:ND2	12:7e:401:GLU:CD	2.77	0.42
12:7e:267:MET:HE1	12:7e:305:PRO:HG3	2.01	0.42
12:7e:326:VAL:O	12:7e:330:MET:HG2	2.19	0.42
13:7f:52:PHE:HZ	13:7f:239:THR:HG21	1.85	0.42
13:7f:217:LEU:HG	13:7f:277:SER:HB3	2.01	0.42
13:7h:301:MET:HE1	13:7h:377:MET:HE1	2.00	0.42
12:8a:321:MET:HE3	12:8a:321:MET:HB2	1.90	0.42
13:8b:144:GLY:N	54:8b:501:GTP:O2G	2.52	0.42
12:8c:55:THR:CG2	12:9c:284:LEU:HD23	2.50	0.42
12:8e:13:GLY:HA2	12:8e:16:ILE:HG22	2.02	0.42
13:8f:407:TRP:NE1	12:8g:258:ILE:O	2.52	0.42
12:8g:165:LEU:HD11	12:8g:200:MET:HE2	2.01	0.42
12:8g:379:LYS:O	12:8g:383:GLU:HG2	2.20	0.42
13:8h:317:LEU:HB3	13:8h:319:TYR:CE1	2.53	0.42
12:9a:86:ARG:HH21	12:Aa:282:ARG:HB2	1.85	0.42
12:9a:210:ILE:HG22	12:9a:297:LYS:O	2.19	0.42
12:9a:287:PRO:HD3	12:9a:325:GLU:OE1	2.20	0.42
12:9a:335:ASN:O	12:9a:338:SER:OG	2.30	0.42
13:9f:104:ALA:HB2	13:9f:413:MET:HB2	2.01	0.42
13:9f:174:SER:OG	13:9f:175:PRO:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:9f:237:SER:HA	13:9f:320:ARG:HD2	2.02	0.42
13:9h:52:PHE:HZ	13:9h:239:THR:HG21	1.85	0.42
13:9h:62:VAL:HG21	13:Ah:283:HIS:O	2.19	0.42
13:Ad:371:VAL:HG22	13:Ad:373:ARG:H	1.85	0.42
12:Ae:106:TYR:HE1	12:Ae:403:MET:HE1	1.85	0.42
12:Ag:322:SER:HB3	12:Ag:325:GLU:HB2	2.02	0.42
13:Ah:147:SER:HB2	13:Ah:190:SER:HB3	2.01	0.42
13:Ah:174:SER:OG	13:Ah:175:PRO:HD2	2.19	0.42
12:Ba:86:ARG:CZ	12:Ca:281:TYR:HB2	2.50	0.42
13:Bb:52:PHE:HZ	13:Bb:239:THR:HG21	1.84	0.42
12:Be:70:PRO:HG3	12:Be:92:PHE:CD2	2.55	0.42
12:Be:99:ASN:N	13:Bf:254:GLU:HG2	2.35	0.42
12:Bg:165:LEU:HD11	12:Bg:200:MET:HE2	2.01	0.42
12:Ca:139:LEU:HD22	12:Ca:188:SER:HB2	2.01	0.42
13:Cd:144:GLY:N	54:Cd:501:GTP:O2G	2.52	0.42
13:Cd:246:GLY:N	13:Cd:249:ASN:OD1	2.43	0.42
12:Ce:374:ILE:HD11	12:Ce:422:TYR:CZ	2.55	0.42
12:Ce:396:HIS:CG	13:Cf:263:PRO:HG3	2.54	0.42
12:Da:60:VAL:HG11	12:Da:86:ARG:NE	2.34	0.42
12:Da:91:VAL:HG21	12:Da:116:VAL:HG22	2.02	0.42
13:Db:144:GLY:N	54:Db:501:GTP:O2G	2.53	0.42
13:Dd:144:GLY:N	54:Dd:501:GTP:O2G	2.52	0.42
12:De:27:GLU:OE1	12:De:359:LYS:HE2	2.20	0.42
12:De:60:VAL:HG22	12:De:61:PRO:O	2.19	0.42
12:Dg:322:SER:HB3	12:Dg:325:GLU:HB2	2.01	0.42
12:Dg:398:TYR:O	12:Dg:403:MET:HB2	2.19	0.42
13:Dh:301:MET:HE1	13:Dh:377:MET:HE1	2.00	0.42
1:0J:12:ARG:O	1:0J:16:GLU:HG2	2.19	0.42
1:0J:88:LEU:HA	1:0J:91:SER:OG	2.19	0.42
1:0J:358:TRP:CD1	1:0J:362:GLN:HE22	2.38	0.42
1:0I:85:LEU:O	1:0I:89:VAL:HG13	2.20	0.42
1:0I:87:GLN:HA	1:0I:90:TYR:CD2	2.55	0.42
1:0K:127:LEU:CD1	1:0K:162:GLN:HG2	2.44	0.42
1:0K:213:TYR:O	1:0K:216:PRO:HD2	2.19	0.42
1:0A:359:THR:O	1:0A:363:ILE:HG13	2.19	0.42
1:0B:12:ARG:O	1:0B:16:GLU:HG2	2.19	0.42
1:0B:231:CYS:O	1:0B:235:GLN:HG2	2.18	0.42
1:0C:353:LYS:HB2	1:0C:396:LEU:HD13	2.01	0.42
1:0D:13:TYR:O	1:0D:17:ARG:HG3	2.19	0.42
1:0D:307:GLY:HA2	1:0D:310:ARG:HD3	2.00	0.42
1:0F:338:PRO:HB2	1:0F:339:PRO:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0G:85:LEU:HA	1:0G:88:LEU:HD12	2.01	0.42
1:0L:169:VAL:O	1:0L:173:VAL:HG23	2.19	0.42
1:0L:175:CYS:SG	1:0L:187:ALA:HB2	2.59	0.42
1:0N:134:LEU:HG	1:0N:145:SER:OG	2.20	0.42
1:0P:76:ALA:HB1	1:0P:110:VAL:HG13	2.02	0.42
1:0Q:407:VAL:CG1	1:0Q:411:LEU:HD22	2.48	0.42
1:0Q:412:THR:HG23	1:0Q:413:HIS:N	2.35	0.42
1:0R:286:ALA:HB1	1:0R:320:ILE:HG12	2.02	0.42
1:0R:338:PRO:HB2	1:0R:339:PRO:HD3	2.01	0.42
1:0R:423:ARG:HD2	1:0R:423:ARG:HA	1.89	0.42
1:0S:30:ASN:O	1:0S:34:ILE:HG13	2.20	0.42
1:0S:91:SER:OG	1:0S:100:LYS:HA	2.20	0.42
1:0S:290:VAL:HG22	1:0S:295:VAL:HG21	2.02	0.42
1:0T:83:GLU:O	1:0T:86:PRO:HD2	2.20	0.42
1:0T:278:VAL:HG13	1:0T:285:LEU:HD23	2.02	0.42
1:1A:233:LEU:HD22	1:1A:252:ILE:HD13	2.02	0.42
1:1B:158:GLU:OE1	1:1B:159:LEU:HG	2.19	0.42
1:1C:3:THR:HG22	1:1C:6:VAL:HG23	2.02	0.42
1:1C:87:GLN:HA	1:1C:90:TYR:CD2	2.54	0.42
2:1D:40:ALA:HA	2:1D:43:LEU:CD2	2.50	0.42
2:1D:136:ASP:OD1	2:1D:139:ARG:HD2	2.18	0.42
2:1F:394:GLY:O	2:1F:397:LYS:HE3	2.20	0.42
3:1H:187:SER:OG	3:1H:215:ALA:HB2	2.19	0.42
3:1H:649:SER:OG	3:1H:650:PRO:HD3	2.19	0.42
3:1I:555:ALA:O	3:1I:559:CYS:HB2	2.19	0.42
4:1J:90:PHE:HB3	4:1J:91:PRO:HD3	2.01	0.42
4:1J:208:LYS:HB2	4:1J:320:ASP:HB3	2.02	0.42
4:1K:19:ALA:HB2	4:1K:54:VAL:HB	2.01	0.42
4:1K:208:LYS:HB2	4:1K:320:ASP:HB3	2.01	0.42
5:1L:540:THR:HB	13:1b:160:ASP:O	2.19	0.42
5:1M:404:PRO:HG2	5:1M:456:GLU:OE2	2.19	0.42
6:1N:974:PRO:HB2	6:1N:979:TRP:NE1	2.35	0.42
6:1N:1016:LEU:HA	6:1N:1073:GLN:HG3	2.02	0.42
6:1N:1211:SER:OG	6:1N:1212:HIS:N	2.53	0.42
6:1N:1378:HIS:O	6:1N:1382:MET:HG2	2.18	0.42
6:1N:2533:PRO:HA	6:1N:2534:PRO:HD3	1.96	0.42
7:1O:1777:PRO:HA	7:1O:1778:PRO:HD3	1.88	0.42
7:1O:2512:TRP:HE3	7:1O:2513:PHE:CE1	2.37	0.42
10:1R:237:SER:OG	32:3J:84:SER:HB2	2.20	0.42
13:1d:52:PHE:HZ	13:1d:239:THR:HG21	1.84	0.42
12:1e:6:HIS:NE2	12:1e:136:CYS:SG	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1e:23:VAL:O	12:1e:26:ASP:OD1	2.38	0.42
12:1e:98:GLY:HA2	13:1f:254:GLU:CG	2.49	0.42
12:1e:101:TRP:NE1	12:1e:188:SER:OG	2.52	0.42
13:1f:52:PHE:HZ	13:1f:239:THR:HG21	1.85	0.42
13:1f:144:GLY:N	54:1f:501:GTP:O2G	2.52	0.42
13:1h:280:LYS:NZ	12:De:88:ASP:HB3	2.34	0.42
14:2F:90:HIS:HB3	12:Ca:279:GLN:OE1	2.18	0.42
15:2H:161:UNK:HA	12:7g:70:PRO:CB	2.49	0.42
24:2U:217:ARG:HD3	12:Cc:421:GLU:OE2	2.19	0.42
24:2V:171:LYS:HA	24:2V:174:MET:HG2	2.02	0.42
13:2b:33:ASP:OD2	13:2b:35:GLN:NE2	2.53	0.42
12:2c:110:ALA:HA	12:2c:113:ILE:HG22	2.01	0.42
13:2d:147:SER:HB2	13:2d:190:SER:HB3	2.01	0.42
12:2e:286:VAL:O	12:2e:290:THR:HG23	2.19	0.42
12:2g:83:GLN:O	12:3g:281:TYR:OH	2.24	0.42
12:2g:107:THR:OG1	12:2g:108:GLU:N	2.52	0.42
12:2g:150:LEU:O	12:2g:153:SER:OG	2.32	0.42
12:2g:208:TYR:CE1	12:2g:225:LEU:HD11	2.55	0.42
30:3F:290:LYS:O	30:3F:294:ALA:HB3	2.19	0.42
30:3F:587:ILE:HA	30:3F:590:VAL:HG22	2.02	0.42
30:3G:747:ARG:HB2	12:6a:402:GLY:HA3	2.00	0.42
32:3J:333:GLY:HA3	12:9a:264:HIS:NE2	2.34	0.42
32:3J:362:PRO:HB3	12:9a:383:GLU:HA	2.02	0.42
32:3J:393:ALA:HB2	12:8a:156:ARG:HH11	1.85	0.42
32:3J:393:ALA:HB1	12:8a:156:ARG:HD2	2.01	0.42
32:3K:57:GLU:HB2	32:3K:62:TYR:HE2	1.85	0.42
32:3K:155:ARG:NH2	32:3K:243:PHE:HD1	2.18	0.42
33:3L:21:TYR:HA	33:3L:24:GLU:CD	2.45	0.42
34:3M:349:LEU:HD22	34:3M:382:LEU:HD13	2.01	0.42
34:3M:418:GLY:O	34:3M:421:SER:OG	2.27	0.42
34:3N:73:VAL:HG13	34:3Q:47:ASN:OD1	2.20	0.42
34:3O:47:ASN:OD1	34:3T:73:VAL:HG13	2.20	0.42
34:3O:73:VAL:O	34:3O:77:GLN:HG3	2.20	0.42
34:3Q:492:LEU:HD11	34:3T:251:LEU:HD21	2.02	0.42
34:3R:60:TYR:HE2	34:3R:430:GLY:HA2	1.84	0.42
34:3R:251:LEU:HD23	34:3R:251:LEU:C	2.44	0.42
34:3T:38:HIS:HE1	34:3T:452:HIS:CE1	2.24	0.42
34:3U:38:HIS:CE1	34:3U:452:HIS:HE1	2.37	0.42
34:3U:366:VAL:HG23	34:3Z:356:PHE:CG	2.55	0.42
34:3V:121:LEU:HD21	34:3V:357:LEU:CB	2.48	0.42
34:3V:386:HIS:CE1	34:3V:390:LEU:HD21	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3W:222:LEU:HD13	34:3Y:313:HIS:ND1	2.35	0.42
34:3Z:263:LYS:HA	34:3Z:263:LYS:CE	2.48	0.42
34:3Z:496:TYR:CD2	34:3Z:497:MET:HE2	2.49	0.42
12:3a:16:ILE:HD11	12:3a:229:ILE:CG2	2.50	0.42
12:3a:240:LEU:HG	12:3a:249:ASP:OD1	2.19	0.42
12:3a:406:MET:HE3	12:3a:406:MET:HB3	1.86	0.42
12:3c:60:VAL:HG21	12:3c:86:ARG:HB2	2.01	0.42
13:3f:33:ASP:OD2	13:3f:35:GLN:NE2	2.53	0.42
12:3g:286:VAL:O	12:3g:290:THR:HG22	2.20	0.42
12:3g:327:ASP:OD1	12:3g:328:GLU:N	2.53	0.42
13:3h:33:ASP:OD2	13:3h:35:GLN:NE2	2.53	0.42
34:4A:123:GLN:NE2	37:4F:1606:PRO:HB2	2.34	0.42
34:4A:194:ARG:O	34:4A:195:THR:OG1	2.35	0.42
35:4C:728:ARG:HD2	37:4E:1764:PRO:CD	2.44	0.42
35:4C:815:LEU:HD11	35:4C:872:LEU:HD13	2.02	0.42
35:4C:831:ASN:ND2	35:4C:868:GLY:HA2	2.34	0.42
37:4E:706:ALA:HB2	37:4E:721:LEU:HD23	2.01	0.42
37:4E:730:ARG:HG3	37:4E:742:VAL:HG11	2.00	0.42
37:4E:930:VAL:HG11	37:4E:1371:LEU:HD13	2.02	0.42
37:4F:577:LEU:HD11	42:5G:135:ARG:CG	2.27	0.42
37:4F:692:MET:CG	38:4K:63:GLN:NE2	2.82	0.42
37:4F:960:LEU:HD12	37:4F:970:SER:HB3	2.02	0.42
37:4F:1093:VAL:HG12	37:4F:1137:ALA:CA	2.49	0.42
37:4G:1378:LEU:HD13	37:4G:1399:LEU:CD1	2.50	0.42
37:4H:422:TRP:CD1	37:4H:849:LEU:HD13	2.55	0.42
37:4H:1088:ASP:O	37:4H:1089:GLY:C	2.62	0.42
37:4H:1092:LEU:HD12	37:4H:1135:PHE:CD2	2.55	0.42
38:4J:42:ILE:HD13	38:4J:42:ILE:HG21	1.85	0.42
38:4K:26:GLU:O	38:4K:29:LYS:N	2.53	0.42
38:4K:31:ALA:O	38:4K:32:GLU:C	2.60	0.42
38:4K:32:GLU:OE1	38:4K:32:GLU:HA	2.18	0.42
38:4K:63:GLN:OE1	38:4K:87:HIS:NE2	2.52	0.42
38:4L:38:VAL:CG1	38:4L:41:LYS:HB3	2.50	0.42
39:4S:70:TYR:HB2	44:5R:149:MET:CE	2.50	0.42
40:4T:251:LEU:HD21	40:4T:262:GLN:HE22	1.83	0.42
40:4T:617:GLU:CD	40:4T:618:ARG:H	2.28	0.42
40:4U:737:ALA:HB1	40:4U:827:ASN:HB3	2.02	0.42
40:4V:617:GLU:CD	40:4V:618:ARG:H	2.28	0.42
41:4Y:169:LEU:O	43:5J:151:THR:HA	2.19	0.42
41:4Z:144:HIS:HA	41:4Z:162:PHE:HA	2.00	0.42
13:4b:301:MET:HE1	13:4b:377:MET:HE1	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4b:313:MET:HG3	13:4b:381:SER:HA	2.02	0.42
12:4c:102:ALA:HB2	12:4c:403:MET:HE3	2.02	0.42
13:4d:174:SER:OG	13:4d:175:PRO:HD2	2.19	0.42
13:4d:248:LEU:HD23	13:4d:248:LEU:HA	1.79	0.42
13:4d:313:MET:HG3	13:4d:381:SER:HA	2.02	0.42
13:4f:273:ALA:N	13:4f:375:VAL:O	2.48	0.42
13:4f:301:MET:HE1	13:4f:377:MET:HE1	2.01	0.42
12:4g:179:VAL:O	12:4g:388:MET:HE1	2.19	0.42
13:4h:144:GLY:N	54:4h:501:GTP:O2G	2.52	0.42
13:4h:174:SER:OG	13:4h:175:PRO:HD2	2.19	0.42
13:4h:217:LEU:HG	13:4h:277:SER:HB3	2.01	0.42
13:4h:273:ALA:N	13:4h:375:VAL:O	2.48	0.42
42:5H:129:MET:O	42:5H:132:GLY:O	2.38	0.42
42:5H:158:MET:HB3	43:5L:158:HIS:CD2	2.49	0.42
43:5K:17:SER:C	43:5K:18:ILE:HG13	2.38	0.42
44:5S:99:ASP:N	44:5S:99:ASP:OD1	2.52	0.42
13:5b:101:ASN:HB2	12:5c:256:ASN:HD21	1.85	0.42
12:5c:91:VAL:CG1	12:5c:116:VAL:HG12	2.36	0.42
13:5d:144:GLY:N	54:5d:501:GTP:O2G	2.52	0.42
13:5f:371:VAL:HG22	13:5f:373:ARG:H	1.85	0.42
47:6A:205:ARG:HD3	47:6A:209:MET:CE	2.47	0.42
47:6A:371:MET:HE3	47:6A:371:MET:HB3	1.75	0.42
47:6A:1618:TYR:CE1	51:6M:1947:PRO:HG2	2.54	0.42
47:6B:774:ALA:O	47:6B:778:VAL:HG23	2.19	0.42
3:6D:62:LEU:HD11	3:6D:87:PHE:CE2	2.55	0.42
3:6D:78:GLU:HA	3:6D:81:CYS:SG	2.58	0.42
48:6E:56:LEU:HD22	48:6E:70:TYR:HB2	2.02	0.42
48:6E:337:ARG:HG2	48:6E:337:ARG:HH11	1.84	0.42
48:6E:793:LEU:HD12	48:6E:814:VAL:HG11	2.02	0.42
48:6F:355:PRO:HB3	48:6F:652:ALA:HB2	2.01	0.42
48:6F:777:LEU:HD12	48:6F:783:TYR:CD2	2.54	0.42
48:6F:957:HIS:HB3	50:6L:412:ALA:CB	2.43	0.42
49:6G:136:MET:HE3	49:6G:136:MET:HB3	1.80	0.42
49:6G:287:ASP:HA	49:6G:337:GLU:HB3	2.02	0.42
49:6G:415:HIS:HB3	49:6G:439:THR:HA	2.01	0.42
49:6H:285:GLY:HA2	49:6H:333:VAL:CG2	2.48	0.42
49:6H:394:ILE:O	49:6H:398:ILE:HG13	2.20	0.42
49:6H:415:HIS:HB3	49:6H:439:THR:HA	2.01	0.42
49:6I:84:SER:HB2	49:6I:416:ARG:HH21	1.84	0.42
49:6J:84:SER:HB2	49:6J:416:ARG:HH21	1.84	0.42
49:6J:360:VAL:HG21	49:6J:412:MET:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:6K:416:MET:HB3	50:6K:454:ALA:HA	2.00	0.42
50:6K:514:GLY:O	50:6K:515:ARG:HG2	2.19	0.42
51:6M:1241:VAL:HG21	51:6M:1255:CYS:SG	2.60	0.42
51:6M:1589:LYS:HE2	51:6M:1705:GLU:HB2	2.01	0.42
51:6M:2293:ALA:HB3	51:6M:2298:CYS:SG	2.59	0.42
51:6N:1589:LYS:HE2	51:6N:1705:GLU:HB2	2.01	0.42
12:6g:176:SER:HB2	12:6g:181:GLU:OE1	2.20	0.42
12:6g:384:GLN:NE2	13:6h:349:THR:HG22	2.34	0.42
13:6h:104:ALA:HB2	13:6h:413:MET:HB2	2.01	0.42
12:7a:100:ASN:HD21	12:7a:401:GLU:CD	2.28	0.42
13:7b:217:LEU:HG	13:7b:277:SER:HB3	2.01	0.42
13:7b:301:MET:HE1	13:7b:377:MET:HE1	2.00	0.42
12:7c:153:SER:OG	12:7c:195:ASN:ND2	2.53	0.42
12:7c:362:LYS:HG2	12:7c:363:MET:HG3	2.02	0.42
13:7d:144:GLY:N	54:7e:501:GTP:O2G	2.53	0.42
13:7d:210:TYR:CE1	12:7e:324:LYS:HB2	2.55	0.42
13:7f:144:GLY:N	54:7f:501:GTP:O2G	2.52	0.42
13:7h:90:GLU:OE1	13:7h:121:ARG:NE	2.44	0.42
13:8d:144:GLY:N	54:8d:501:GTP:O2G	2.53	0.42
12:8e:95:THR:HG23	12:8e:108:GLU:OE1	2.19	0.42
13:8f:174:SER:OG	13:8f:175:PRO:HD2	2.19	0.42
13:8h:174:SER:OG	13:8h:175:PRO:HD2	2.19	0.42
13:8h:217:LEU:HG	13:8h:277:SER:HB3	2.01	0.42
12:9c:112:LEU:O	12:9c:116:VAL:HG13	2.20	0.42
13:9d:52:PHE:HZ	13:9d:239:THR:HG21	1.85	0.42
13:9d:177:VAL:HB	12:9e:331:LEU:HD22	2.01	0.42
13:9d:273:ALA:N	13:9d:375:VAL:O	2.48	0.42
12:9e:86:ARG:CZ	12:Ae:278:SER:OG	2.68	0.42
12:9e:389:PHE:HZ	12:9e:405:GLU:OE2	2.03	0.42
12:Aa:271:THR:OG1	12:Aa:365:ALA:HB3	2.20	0.42
13:Ab:237:SER:HA	13:Ab:320:ARG:HD2	2.02	0.42
13:Ab:371:VAL:HG22	13:Ab:373:ARG:H	1.85	0.42
12:Ac:86:ARG:O	12:Ac:89:ASN:HB2	2.19	0.42
13:Ad:33:ASP:OD2	13:Ad:35:GLN:NE2	2.53	0.42
12:Ae:377:MET:HB2	12:Ae:377:MET:HE2	1.61	0.42
13:Ah:313:MET:HG3	13:Ah:381:SER:HA	2.02	0.42
12:Ba:215:LEU:HD11	12:Ba:228:LEU:HD21	2.01	0.42
12:Bc:64:ILE:HD13	12:Bc:120:VAL:HG22	2.01	0.42
13:Bd:174:SER:OG	13:Bd:175:PRO:HD2	2.19	0.42
13:Bf:52:PHE:HZ	13:Bf:239:THR:HG21	1.84	0.42
12:Bg:150:LEU:O	12:Bg:153:SER:OG	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bh:147:SER:HB2	13:Bh:190:SER:HB3	2.01	0.42
12:Cc:179:VAL:O	12:Cc:388:MET:HE1	2.20	0.42
12:Ce:103:LYS:HG2	12:Ce:401:GLU:OE1	2.20	0.42
13:Cf:144:GLY:N	54:Cf:501:GTP:O2G	2.52	0.42
13:Ch:144:GLY:N	54:Ch:501:GTP:O2G	2.53	0.42
12:Da:377:MET:HE2	12:Da:377:MET:HB2	1.92	0.42
13:Db:104:ALA:HB2	13:Db:413:MET:HB2	2.01	0.42
13:Dd:52:PHE:HZ	13:Dd:239:THR:HG21	1.84	0.42
12:De:177:ASP:O	13:Df:352:LYS:HA	2.19	0.42
13:Df:144:GLY:N	54:Df:501:GTP:O2G	2.53	0.42
13:Df:206:ASN:OD1	54:Df:501:GTP:N2	2.49	0.42
12:Dg:60:VAL:HG23	12:Dg:84:ILE:O	2.19	0.42
12:Dg:97:ALA:O	12:Dg:99:ASN:N	2.53	0.42
1:0H:34:ILE:HG23	1:0H:68:LEU:HD22	2.02	0.42
1:0K:108:ARG:HD3	1:0K:147:TRP:HB3	2.00	0.42
1:0A:83:GLU:C	1:0A:86:PRO:HD2	2.45	0.42
1:0B:380:LEU:HD21	1:0B:407:VAL:HG21	2.01	0.42
1:0E:21:VAL:HG21	1:0E:57:ILE:HG23	2.02	0.42
1:0E:413:HIS:CE1	1:0E:415:PRO:HD2	2.55	0.42
1:0G:269:LYS:HB3	1:0G:269:LYS:HE2	1.83	0.42
1:0O:359:THR:O	1:0O:363:ILE:HG13	2.20	0.42
1:0Q:87:GLN:HA	1:0Q:90:TYR:CD2	2.55	0.42
1:0R:159:LEU:O	1:0R:163:VAL:HG23	2.19	0.42
1:0R:382:THR:O	1:0R:386:LEU:HG	2.20	0.42
1:0S:265:GLU:OE2	1:0S:265:GLU:N	2.45	0.42
1:0T:122:ILE:HG12	1:0T:127:LEU:HD21	2.02	0.42
1:0U:28:ALA:HB1	1:0U:67:ARG:HB2	2.02	0.42
1:0V:253:PHE:HA	1:0V:256:ILE:HB	2.01	0.42
1:0X:153:ALA:O	1:0X:197:HIS:CD2	2.73	0.42
1:0X:336:ALA:O	1:0X:340:LEU:HD13	2.20	0.42
1:0Y:29:LYS:HD2	1:0Y:29:LYS:HA	1.89	0.42
1:1B:330:SER:O	1:1B:334:GLU:HG2	2.19	0.42
1:1B:353:LYS:HZ3	1:1B:386:LEU:HD11	1.84	0.42
1:1C:101:GLN:HG3	1:1C:141:VAL:HG12	2.00	0.42
1:1C:185:ARG:HD3	1:1C:224:LYS:CD	2.49	0.42
2:1F:54:GLU:HA	2:1F:57:MET:HB2	2.02	0.42
2:1G:246:PRO:HG2	2:1G:249:LEU:CB	2.44	0.42
3:1H:978:LYS:HD3	3:1H:981:LYS:HD2	2.02	0.42
4:1K:90:PHE:HB3	4:1K:91:PRO:HD3	2.00	0.42
6:1N:185:GLU:O	6:1N:189:VAL:HG23	2.19	0.42
7:1O:947:TYR:OH	7:1O:982:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1P:980:ARG:O	8:1P:984:VAL:HG23	2.19	0.42
10:1R:110:PHE:CE2	12:9c:402:GLY:HA3	2.54	0.42
10:1R:258:THR:HG22	32:3J:86:PRO:HG3	2.02	0.42
10:1S:41:LEU:CD1	10:1S:46:ILE:HD11	2.49	0.42
10:1S:391:SER:OG	10:1S:392:LEU:N	2.51	0.42
11:1T:650:ARG:HA	11:1T:728:PHE:CB	2.50	0.42
13:1b:144:GLY:N	54:1b:501:GTP:O2G	2.52	0.42
12:1c:112:LEU:HB2	12:1c:147:MET:HE1	2.02	0.42
12:1c:213:ARG:HH21	12:1c:297:LYS:HD2	1.85	0.42
13:1d:144:GLY:N	54:1d:501:GTP:O2G	2.52	0.42
14:2F:32:LYS:HD3	14:2F:36:GLU:O	2.19	0.42
14:2F:37:PHE:CD2	12:Da:77:ARG:NE	2.87	0.42
24:2T:137:THR:OG1	24:2T:138:ASP:N	2.53	0.42
12:2a:327:ASP:OD1	12:2a:328:GLU:N	2.53	0.42
12:2a:328:GLU:O	12:2a:331:LEU:HG	2.19	0.42
13:2b:144:GLY:N	54:2b:501:GTP:O2G	2.52	0.42
12:2c:68:LEU:HD23	12:2c:143:THR:HB	2.02	0.42
13:2d:33:ASP:OD2	13:2d:35:GLN:NE2	2.53	0.42
12:2e:154:LYS:HA	12:2e:157:GLU:OE1	2.20	0.42
13:2f:144:GLY:N	54:2f:501:GTP:O2G	2.53	0.42
13:2f:217:LEU:HG	13:2f:277:SER:HB3	2.01	0.42
13:2h:217:LEU:HG	13:2h:277:SER:HB3	2.01	0.42
29:3E:1194:GLN:O	29:3E:1198:ARG:HG2	2.20	0.42
30:3F:330:ALA:C	13:7f:430:LYS:NZ	2.78	0.42
30:3G:725:TYR:HE1	30:3G:729:LEU:HD11	1.84	0.42
31:3H:102:VAL:O	31:3H:106:LYS:HG3	2.20	0.42
31:3I:153:GLU:HA	31:3I:156:ARG:HD2	2.01	0.42
32:3J:81:ILE:HB	32:3J:124:ARG:HG3	2.02	0.42
32:3J:135:PRO:C	32:3J:136:LEU:HD12	2.45	0.42
32:3K:115:GLN:HB2	32:3K:119:TYR:HH	1.85	0.42
34:3N:502:VAL:HG12	34:3N:506:GLU:OE1	2.20	0.42
34:3O:49:PHE:HD1	34:3O:288:MET:SD	2.43	0.42
34:3P:71:LEU:HB2	34:3P:72:PRO:HD3	2.02	0.42
34:3P:461:ALA:O	34:3P:464:LEU:HG	2.20	0.42
34:3Q:73:VAL:O	34:3Q:77:GLN:HG3	2.20	0.42
34:3Q:356:PHE:CZ	34:3Q:359:ARG:NH2	2.88	0.42
34:3Q:467:LEU:HD21	34:3T:503:ASN:HB3	2.00	0.42
34:3X:97:LEU:HA	34:3X:97:LEU:HD23	1.47	0.42
34:3X:273:ARG:HG2	34:3X:456:LEU:CD1	2.50	0.42
34:3Z:121:LEU:HG	34:3Z:357:LEU:HD22	2.01	0.42
12:3a:7:ILE:HB	12:3a:135:VAL:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3b:33:ASP:OD2	13:3b:35:GLN:NE2	2.53	0.42
12:3c:330:MET:SD	12:3c:349:VAL:HG11	2.60	0.42
12:3e:16:ILE:HD11	12:3e:229:ILE:CG2	2.50	0.42
12:3e:286:VAL:O	12:3e:290:THR:HG23	2.20	0.42
12:3g:179:VAL:O	12:3g:388:MET:HE1	2.19	0.42
34:4A:352:LEU:HB3	34:4A:356:PHE:CE1	2.54	0.42
36:4D:63:HIS:CE1	36:4D:122:HIS:NE2	2.84	0.42
36:4D:182:GLN:O	36:4D:186:ILE:HG13	2.20	0.42
37:4E:575:SER:C	37:4E:577:LEU:C	2.88	0.42
37:4E:578:ASP:CA	43:5L:42:TYR:CZ	3.02	0.42
37:4E:692:MET:HB2	38:4P:59:PRO:HB3	2.01	0.42
37:4E:733:LEU:HD23	37:4E:1801:GLN:CD	2.44	0.42
37:4E:1127:ARG:NE	43:5L:137:ARG:HH12	2.18	0.42
37:4E:1690:GLU:OE1	37:4E:1783:LEU:HD11	2.20	0.42
37:4E:1790:THR:O	37:4E:1794:ILE:HG13	2.20	0.42
37:4F:508:PRO:HD2	38:4N:70:LYS:NZ	2.34	0.42
37:4F:972:PHE:CZ	37:4F:1074:GLN:OE1	2.71	0.42
37:4F:1074:GLN:HB3	38:4N:42:ILE:N	2.34	0.42
37:4F:1753:GLN:CD	38:4N:24:THR:N	2.78	0.42
37:4G:603:ASP:OD1	37:4G:786:GLN:NE2	2.52	0.42
37:4H:417:ARG:HA	37:4H:417:ARG:HD3	1.81	0.42
37:4H:509:PRO:O	37:4H:510:HIS:HB2	2.20	0.42
37:4H:526:ARG:NH2	37:4H:681:GLU:OE2	2.52	0.42
37:4H:666:THR:OG1	37:4H:677:THR:HB	2.20	0.42
37:4H:748:TYR:CE1	37:4H:1791:ILE:HG23	2.54	0.42
37:4H:1093:VAL:C	38:4M:36:VAL:HG13	2.44	0.42
37:4H:1294:ALA:HB2	37:4H:1308:TYR:HA	2.00	0.42
38:4M:38:VAL:CG1	38:4M:38:VAL:O	2.62	0.42
38:4M:67:ALA:HA	38:4M:70:LYS:CB	2.40	0.42
38:4O:14:VAL:HG22	38:4O:17:LEU:CD1	2.49	0.42
39:4S:171:SER:HB2	39:4S:199:GLU:OE2	2.20	0.42
40:4T:358:ASP:OD2	40:4T:359:GLU:N	2.52	0.42
40:4T:388:VAL:O	40:4T:392:LEU:HG	2.19	0.42
40:4T:440:CYS:SG	44:5P:122:GLU:HB3	2.60	0.42
40:4T:737:ALA:HB1	40:4T:827:ASN:HB3	2.02	0.42
40:4U:358:ASP:OD2	40:4U:359:GLU:N	2.52	0.42
40:4U:388:VAL:O	40:4U:392:LEU:HG	2.19	0.42
40:4U:617:GLU:CD	40:4U:618:ARG:H	2.28	0.42
40:4V:251:LEU:HD21	40:4V:262:GLN:HE22	1.83	0.42
12:4a:277:GLY:O	12:4a:281:TYR:HD2	2.02	0.42
13:4d:288:VAL:HG21	13:4d:327:ASP:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4f:288:VAL:HG21	13:4f:327:ASP:HB3	2.02	0.42
41:5A:20:GLU:CB	43:5L:190:ARG:CB	2.98	0.42
42:5H:49:ILE:CG1	43:5L:144:TYR:CA	2.95	0.42
42:5H:139:LEU:CA	43:5L:146:TYR:CD2	2.96	0.42
43:5J:70:ASP:N	43:5J:70:ASP:OD1	2.51	0.42
43:5K:23:PRO:HG2	43:5K:24:LYS:CD	2.50	0.42
43:5K:113:PRO:CG	44:5U:112:VAL:HG13	2.38	0.42
44:5T:97:ASP:HB3	44:5T:104:ILE:HD11	2.02	0.42
44:5V:137:ASP:OD2	44:5V:139:GLN:HB2	2.20	0.42
45:5Y:86:UNK:O	45:5Y:87:UNK:C	2.67	0.42
13:5b:33:ASP:OD2	13:5b:35:GLN:NE2	2.53	0.42
13:5b:104:ALA:HB2	13:5b:413:MET:HB2	2.01	0.42
13:5b:210:TYR:CD1	12:5c:324:LYS:HB2	2.54	0.42
12:5c:304:ASP:HA	12:5c:305:PRO:HD3	1.94	0.42
13:5d:217:LEU:HG	13:5d:277:SER:HB3	2.01	0.42
12:5e:120:VAL:HG21	12:5e:155:ILE:HD11	2.00	0.42
47:6B:366:GLU:CG	3:6D:683:ARG:HD3	2.50	0.42
47:6B:384:GLU:HG3	47:6B:387:ARG:NH2	2.35	0.42
47:6B:1618:TYR:CE1	51:6N:1947:PRO:HG2	2.54	0.42
3:6D:778:GLY:O	3:6D:781:VAL:HG12	2.19	0.42
3:6D:878:LEU:O	3:6D:881:SER:OG	2.34	0.42
3:6D:954:PHE:HB3	3:6D:959:PHE:HE1	1.84	0.42
48:6E:494:VAL:HG11	48:6E:623:PRO:HB3	2.02	0.42
48:6E:618:TRP:O	48:6E:655:LEU:HD11	2.19	0.42
48:6F:494:VAL:HG11	48:6F:623:PRO:HB3	2.02	0.42
49:6G:394:ILE:O	49:6G:398:ILE:HG13	2.20	0.42
49:6H:358:GLN:HB2	49:6H:473:ARG:NE	2.34	0.42
49:6J:194:ILE:HD12	49:6J:234:LEU:CD2	2.48	0.42
50:6K:435:SER:HB2	50:6K:476:GLY:HA3	2.02	0.42
50:6L:65:ARG:HG3	50:6L:93:PHE:HA	2.01	0.42
50:6L:475:ARG:HA	50:6L:475:ARG:HD3	1.91	0.42
51:6M:2014:LEU:HD13	51:6M:2032:TYR:CZ	2.55	0.42
51:6N:1397:ALA:HA	51:6N:1400:VAL:HG23	2.02	0.42
12:7a:394:PHE:CE1	13:7b:261:PRO:HA	2.55	0.42
13:7d:246:GLY:N	13:7d:249:ASN:OD1	2.43	0.42
12:8a:215:LEU:HB3	12:8a:217:LEU:HD13	2.02	0.42
13:8b:174:SER:OG	13:8b:175:PRO:HD2	2.19	0.42
13:8b:246:GLY:N	13:8b:249:ASN:OD1	2.43	0.42
12:8e:21:TRP:CD1	12:8e:85:PHE:HE1	2.38	0.42
13:8f:144:GLY:N	54:8f:501:GTP:O2G	2.53	0.42
13:8f:222:PRO:O	12:8g:324:LYS:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8g:99:ASN:HA	12:8g:142:GLY:H	1.84	0.42
13:9b:246:GLY:N	13:9b:249:ASN:OD1	2.43	0.42
12:9c:68:LEU:HD23	12:9c:143:THR:HB	2.02	0.42
13:9d:104:ALA:HB2	13:9d:413:MET:HB2	2.01	0.42
13:9d:147:SER:HB2	13:9d:190:SER:HB3	2.01	0.42
12:9e:210:ILE:HG22	12:9e:297:LYS:O	2.20	0.42
12:9g:185:ALA:O	12:9g:189:VAL:HG12	2.19	0.42
13:9h:33:ASP:OD2	13:9h:35:GLN:NE2	2.53	0.42
13:9h:104:ALA:HB2	13:9h:413:MET:HB2	2.01	0.42
13:9h:237:SER:HA	13:9h:320:ARG:HD2	2.02	0.42
12:Aa:186:THR:O	12:Aa:189:VAL:HG12	2.20	0.42
13:Ab:174:SER:OG	13:Ab:175:PRO:HD2	2.19	0.42
13:Ab:313:MET:HG3	13:Ab:381:SER:HA	2.02	0.42
13:Ad:313:MET:HG3	13:Ad:381:SER:HA	2.02	0.42
13:Af:217:LEU:HG	13:Af:277:SER:HB3	2.01	0.42
13:Af:237:SER:HA	13:Af:320:ARG:HD2	2.02	0.42
13:Af:313:MET:HG3	13:Af:381:SER:HA	2.02	0.42
12:Ag:430:ALA:O	12:Ag:431:GLU:HB2	2.19	0.42
13:Bb:147:SER:HB2	13:Bb:190:SER:HB3	2.01	0.42
13:Bb:174:SER:OG	13:Bb:175:PRO:HD2	2.19	0.42
13:Bd:147:SER:HB2	13:Bd:190:SER:HB3	2.01	0.42
13:Bf:174:SER:OG	13:Bf:175:PRO:HD2	2.19	0.42
13:Bh:60:LYS:NZ	13:Ch:283:HIS:ND1	2.68	0.42
12:Ca:185:ALA:O	12:Ca:189:VAL:HG23	2.19	0.42
12:Ce:395:LEU:HD11	12:Ce:405:GLU:OE1	2.19	0.42
13:Dd:104:ALA:HB2	13:Dd:413:MET:HB2	2.01	0.42
13:Dd:206:ASN:OD1	54:Dd:501:GTP:N2	2.49	0.42
12:De:284:LEU:HD23	12:De:362:LYS:HB2	2.02	0.42
13:Df:52:PHE:HZ	13:Df:239:THR:HG21	1.85	0.42
13:Df:107:HIS:O	13:Df:112:LYS:NZ	2.41	0.42
13:Df:217:LEU:HG	13:Df:277:SER:HB3	2.01	0.42
13:Dh:174:SER:OG	13:Dh:175:PRO:HD2	2.19	0.42
1:0H:47:ARG:HB2	1:0H:84:ILE:HG12	2.01	0.42
1:0H:76:ALA:O	1:0H:80:VAL:HG23	2.20	0.42
1:0H:76:ALA:HB1	1:0H:110:VAL:HG13	2.02	0.42
1:0I:407:VAL:CG1	1:0I:411:LEU:HD22	2.48	0.42
1:0K:23:ALA:O	1:0K:27:MET:HG2	2.19	0.42
1:0K:269:LYS:HB3	1:0K:269:LYS:HE2	1.79	0.42
1:0A:153:ALA:O	1:0A:197:HIS:CD2	2.73	0.42
1:0C:42:ALA:HB2	1:0D:10:PHE:HZ	1.85	0.42
1:0C:182:SER:O	1:0C:186:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0C:338:PRO:HA	1:0C:341:VAL:HG23	2.01	0.42
1:0D:85:LEU:O	1:0D:89:VAL:HG13	2.20	0.42
1:0D:185:ARG:HD3	1:0D:224:LYS:CG	2.49	0.42
1:0E:10:PHE:HZ	1:0F:42:ALA:HB2	1.83	0.42
1:0E:254:PRO:O	1:0E:258:THR:HG23	2.20	0.42
1:0E:332:ILE:HD11	1:0E:363:ILE:HG21	2.02	0.42
1:0L:85:LEU:CD1	1:0L:107:LEU:HD23	2.48	0.42
1:0L:185:ARG:HD3	1:0L:224:LYS:CD	2.50	0.42
1:0L:185:ARG:HD3	1:0L:224:LYS:CG	2.50	0.42
1:0M:328:ALA:HB1	1:0M:363:ILE:HG23	2.02	0.42
1:0M:336:ALA:O	1:0M:340:LEU:HG	2.20	0.42
1:0N:382:THR:O	1:0N:386:LEU:HG	2.19	0.42
1:0O:87:GLN:HA	1:0O:90:TYR:CD2	2.53	0.42
1:0P:308:ASN:OD1	1:0P:309:ASN:N	2.52	0.42
1:0Q:38:GLN:HG3	1:0Q:75:LEU:CD2	2.50	0.42
1:0R:122:ILE:HG23	1:0R:127:LEU:HD11	2.02	0.42
1:0T:153:ALA:HA	1:0T:160:ALA:HB2	2.01	0.42
1:0T:157:ALA:HB1	1:0T:198:THR:CG2	2.50	0.42
1:0T:259:CYS:HB2	1:0T:271:SER:HB3	2.01	0.42
1:0T:269:LYS:O	1:0T:273:THR:HG23	2.20	0.42
1:0V:79:VAL:HG13	1:0V:84:ILE:HB	2.00	0.42
1:0Y:265:GLU:OE2	1:0Y:265:GLU:N	2.45	0.42
1:0Z:218:VAL:HG22	1:0Z:229:VAL:CG2	2.50	0.42
1:1B:127:LEU:HD13	1:1B:163:VAL:HG12	2.01	0.42
1:1C:218:VAL:HG22	1:1C:229:VAL:CG2	2.49	0.42
3:1H:144:ARG:HG2	3:1H:145:PRO:HD2	2.02	0.42
3:1H:228:ASN:HB3	3:1H:230:GLU:OE2	2.19	0.42
3:1H:265:TRP:CZ2	3:1H:269:GLU:OE1	2.73	0.42
3:1H:276:ARG:HG3	3:1H:537:ASP:HB2	2.02	0.42
3:1H:615:LEU:HD22	3:1H:623:HIS:NE2	2.35	0.42
3:1I:679:GLU:CG	3:1I:751:VAL:HG22	2.50	0.42
4:1K:21:ILE:CD1	13:Bd:422:ARG:HB3	2.50	0.42
4:1K:270:ILE:O	4:1K:270:ILE:HG13	2.19	0.42
5:1M:532:PHE:CZ	13:1f:159:VAL:HG13	2.54	0.42
5:1M:560:MET:CE	13:1f:265:ILE:HD13	2.50	0.42
6:1N:73:LEU:HB3	7:1O:3111:LYS:HD3	2.02	0.42
6:1N:355:ALA:HB1	6:1N:388:GLN:HG2	2.01	0.42
6:1N:2205:LEU:HD23	6:1N:2205:LEU:HA	1.88	0.42
6:1N:2467:HIS:CE1	6:1N:2493:SER:HA	2.55	0.42
7:1O:61:TYR:CE1	7:1O:105:ARG:HD2	2.55	0.42
7:1O:2536:VAL:HG21	7:1O:2570:ALA:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1R:57:LYS:HB2	13:Ad:339:ARG:NH2	2.35	0.42
10:1R:424:THR:CG2	12:Ba:218:THR:HA	2.50	0.42
10:1S:430:HIS:CG	10:1S:431:PRO:HD2	2.55	0.42
13:1d:283:HIS:HA	12:Da:86:ARG:CZ	2.50	0.42
13:1d:288:VAL:HG21	13:1d:327:ASP:HB3	2.02	0.42
13:1f:288:VAL:HG21	13:1f:327:ASP:HB3	2.02	0.42
12:1g:107:THR:O	12:1g:111:GLU:HG2	2.20	0.42
13:1h:52:PHE:HZ	13:1h:239:THR:HG21	1.85	0.42
24:2T:140:PRO:CG	13:Ch:117:LEU:HD11	2.44	0.42
24:2U:209:TYR:HD1	24:2U:214:ILE:CG2	2.33	0.42
12:2a:363:MET:O	12:2a:364:SER:OG	2.32	0.42
13:2d:107:HIS:O	13:2d:112:LYS:NZ	2.41	0.42
13:2d:222:PRO:O	12:2e:322:SER:OG	2.37	0.42
12:2e:201:VAL:HG22	12:2e:266:PHE:O	2.19	0.42
13:2f:222:PRO:O	12:2g:324:LYS:HB3	2.18	0.42
12:2g:179:VAL:O	12:2g:388:MET:HE1	2.20	0.42
13:2h:144:GLY:N	54:2h:501:GTP:O2G	2.52	0.42
30:3F:373:LEU:HD23	30:3F:373:LEU:HA	1.70	0.42
30:3F:524:VAL:HG12	30:3F:525:LYS:H	1.83	0.42
30:3G:546:GLU:HG2	31:3I:392:VAL:HG21	2.02	0.42
30:3G:756:ALA:O	30:3G:760:THR:HG23	2.20	0.42
32:3K:363:ILE:HD12	32:3K:363:ILE:HA	1.91	0.42
34:3M:266:HIS:CA	34:3M:463:HIS:HE1	2.30	0.42
34:3M:502:VAL:O	34:3M:506:GLU:HG3	2.20	0.42
34:3N:262:THR:HG22	34:3U:503:ASN:ND2	2.34	0.42
34:3O:356:PHE:CZ	34:3O:359:ARG:NH2	2.88	0.42
34:3P:267:GLU:HA	34:3P:270:ILE:HD11	2.02	0.42
34:3Q:280:TRP:HB2	34:3Q:452:HIS:CD2	2.54	0.42
34:3Q:435:SER:O	34:3Q:439:PRO:HG2	2.19	0.42
34:3U:472:ASP:HA	34:3U:475:MET:HG3	2.01	0.42
34:3V:485:TYR:HE2	34:3X:482:LEU:HB2	1.85	0.42
34:3W:69:ALA:O	34:3W:73:VAL:HG23	2.20	0.42
34:3W:74:LEU:HD22	34:3W:313:HIS:CD2	2.55	0.42
34:3W:360:VAL:C	34:3W:361:LEU:HD22	2.43	0.42
34:3X:449:GLU:OE2	34:3X:453:ARG:NH2	2.53	0.42
34:3Y:255:HIS:O	34:3Y:259:MET:HG2	2.19	0.42
34:3Z:254:MET:SD	34:3Z:255:HIS:N	2.93	0.42
12:3a:207:LEU:HA	12:3a:210:ILE:HG12	2.01	0.42
13:3b:288:VAL:HG21	13:3b:327:ASP:HB3	2.02	0.42
13:3d:33:ASP:OD2	13:3d:35:GLN:NE2	2.53	0.42
34:4A:103:LEU:HD13	34:4A:342:GLN:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4B:122:GLN:HE22	34:4B:357:LEU:HA	1.84	0.42
34:4B:453:ARG:HA	34:4B:456:LEU:CD2	2.50	0.42
35:4C:571:ASN:HD21	37:4E:1762:GLU:N	2.18	0.42
35:4C:788:VAL:HA	35:4C:819:THR:HG21	2.02	0.42
35:4C:829:VAL:CG2	35:4C:834:ILE:HB	2.50	0.42
36:4D:108:LYS:HE3	36:4D:108:LYS:HB3	1.95	0.42
37:4E:577:LEU:HG	43:5L:30:ARG:NH1	2.35	0.42
37:4E:580:GLU:CA	43:5L:35:LYS:CG	2.97	0.42
37:4E:789:ALA:HB1	38:4P:66:GLN:OE1	2.19	0.42
37:4E:1105:LEU:HD12	43:5L:137:ARG:NH1	2.34	0.42
37:4E:1109:ARG:CZ	37:4E:1109:ARG:CB	2.97	0.42
37:4E:1322:ARG:NH2	37:4E:1712:LEU:HD13	2.34	0.42
37:4E:1529:ILE:HD12	37:4E:1609:PRO:HB3	2.01	0.42
37:4F:590:LYS:HD3	37:4F:591:PRO:O	2.20	0.42
37:4F:748:TYR:CE1	37:4F:1791:ILE:HG23	2.55	0.42
37:4F:1136:ARG:CG	38:4N:33:LYS:HZ3	2.29	0.42
37:4F:1335:MET:HG2	38:4N:32:GLU:OE1	2.09	0.42
37:4F:1341:ILE:HG22	37:4F:1342:LEU:O	2.20	0.42
37:4F:1378:LEU:HD12	37:4F:1385:ALA:HB3	2.00	0.42
37:4F:1394:PRO:HA	37:4F:1449:ASP:OD2	2.19	0.42
37:4G:534:HIS:CD2	37:4G:534:HIS:C	2.93	0.42
37:4G:565:ALA:HA	37:4G:674:HIS:HB2	2.01	0.42
37:4G:686:HIS:CE1	38:4I:51:GLN:HG2	2.55	0.42
37:4G:692:MET:O	37:4G:694:PRO:HD3	2.20	0.42
37:4G:1306:VAL:O	37:4G:1313:VAL:HA	2.20	0.42
37:4G:1335:MET:C	37:4G:1337:GLY:N	2.75	0.42
37:4G:1734:PHE:CD2	37:4G:1736:ARG:NH1	2.77	0.42
37:4H:623:ARG:CZ	37:4H:688:LEU:HD11	2.49	0.42
37:4H:1321:THR:CB	38:4M:29:LYS:HZ1	2.32	0.42
37:4H:1333:VAL:CG2	37:4H:1342:LEU:HA	2.50	0.42
38:4N:63:GLN:OE1	38:4N:87:HIS:NE2	2.52	0.42
38:4O:42:ILE:O	38:4O:42:ILE:HG23	2.20	0.42
39:4R:104:ARG:HH22	44:5O:49:GLU:N	2.18	0.42
40:4U:439:GLY:N	40:4U:442:SER:OG	2.53	0.42
40:4U:440:CYS:SG	44:5R:122:GLU:HB3	2.60	0.42
40:4V:450:LEU:HD22	40:4V:456:LEU:HD22	2.01	0.42
40:4V:634:ARG:O	40:4V:635:LEU:HG	2.19	0.42
40:4V:638:THR:C	40:4V:640:GLU:N	2.78	0.42
12:4a:131:GLN:O	12:4a:163:MET:HG3	2.20	0.42
13:4b:288:VAL:HG21	13:4b:327:ASP:HB3	2.02	0.42
13:4d:273:ALA:N	13:4d:375:VAL:O	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4f:313:MET:HG3	13:4f:381:SER:HA	2.02	0.42
13:4h:288:VAL:HG21	13:4h:327:ASP:HB3	2.02	0.42
13:4h:313:MET:HG3	13:4h:381:SER:HA	2.02	0.42
41:5A:138:TRP:CB	41:5A:142:ARG:O	2.68	0.42
42:5H:95:GLU:CB	42:5H:134:LEU:HD21	2.44	0.42
43:5J:23:PRO:HG2	43:5J:24:LYS:CD	2.50	0.42
44:5Q:116:LEU:HD23	44:5T:22:LEU:HD22	2.01	0.42
44:5T:33:THR:HG22	44:5T:67:ILE:HD11	2.01	0.42
44:5U:99:ASP:N	44:5U:99:ASP:OD2	2.52	0.42
12:5a:151:LEU:O	12:5a:155:ILE:HG12	2.19	0.42
13:5b:217:LEU:HG	13:5b:277:SER:HB3	2.01	0.42
13:5b:248:LEU:HD23	13:5b:248:LEU:HA	1.79	0.42
12:5c:229:ILE:O	12:5c:233:MET:HG3	2.19	0.42
12:5g:229:ILE:O	12:5g:233:MET:HG3	2.19	0.42
13:5h:33:ASP:OD2	13:5h:35:GLN:NE2	2.53	0.42
13:5h:174:SER:OG	13:5h:175:PRO:HD2	2.19	0.42
47:6A:259:LYS:HB2	47:6A:259:LYS:HE2	1.71	0.42
47:6A:384:GLU:HG3	47:6A:387:ARG:NH2	2.35	0.42
47:6A:710:VAL:O	47:6A:714:VAL:HG23	2.20	0.42
47:6B:205:ARG:CG	12:Bg:106:TYR:CD1	3.03	0.42
47:6B:710:VAL:O	47:6B:714:VAL:HG23	2.20	0.42
47:6B:809:ALA:C	47:6B:811:PRO:HD2	2.45	0.42
47:6B:930:GLY:HA2	47:6B:933:ARG:HD2	2.00	0.42
3:6D:912:ARG:HD3	3:6D:915:TRP:CH2	2.55	0.42
48:6E:916:SER:O	48:6E:917:THR:OG1	2.32	0.42
48:6E:989:LYS:HE3	48:6E:994:GLY:O	2.20	0.42
48:6F:73:LEU:HG	48:6F:92:LEU:HD11	2.02	0.42
48:6F:618:TRP:O	48:6F:655:LEU:HD11	2.19	0.42
48:6F:983:ILE:HG23	48:6F:1010:HIS:CE1	2.55	0.42
49:6H:269:VAL:O	49:6H:273:ILE:HG13	2.19	0.42
49:6H:287:ASP:HA	49:6H:337:GLU:HB3	2.02	0.42
49:6I:287:ASP:HA	49:6I:337:GLU:HB3	2.01	0.42
49:6I:394:ILE:O	49:6I:398:ILE:HG13	2.20	0.42
50:6K:8:ILE:HD13	50:6K:133:ALA:CB	2.50	0.42
50:6K:8:ILE:HG13	50:6K:21:VAL:HA	2.02	0.42
50:6L:223:PHE:CE2	50:6L:397:LEU:HD13	2.52	0.42
50:6L:416:MET:HB3	50:6L:454:ALA:HA	2.00	0.42
50:6L:435:SER:HB2	50:6L:476:GLY:HA3	2.02	0.42
51:6M:1277:VAL:HG13	51:6M:1288:LYS:HE2	2.02	0.42
51:6M:1397:ALA:HA	51:6M:1400:VAL:HG23	2.02	0.42
51:6N:2491:GLU:HG3	51:6N:2495:LYS:HE3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:6d:104:ALA:HB2	13:6d:413:MET:HB2	2.01	0.42
13:6d:147:SER:HB2	13:6d:190:SER:HB3	2.01	0.42
12:6e:151:LEU:O	12:6e:155:ILE:HG12	2.19	0.42
12:6e:286:VAL:O	12:6e:290:THR:HG23	2.19	0.42
12:6e:322:SER:OG	12:6e:325:GLU:HB2	2.20	0.42
13:6f:104:ALA:HB2	13:6f:413:MET:HB2	2.01	0.42
13:6f:147:SER:HB2	13:6f:190:SER:HB3	2.01	0.42
13:6f:246:GLY:N	13:6f:249:ASN:OD1	2.43	0.42
12:6g:256:ASN:ND2	12:6g:350:LYS:HE3	2.35	0.42
13:6h:206:ASN:OD1	54:6h:501:GTP:N2	2.49	0.42
12:7a:139:LEU:O	12:7a:171:PRO:HD3	2.20	0.42
12:7a:381:VAL:HB	12:7a:415:MET:HE1	2.02	0.42
13:7b:104:ALA:HB2	13:7b:413:MET:HB2	2.01	0.42
12:7c:330:MET:HB3	12:7c:349:VAL:HG11	2.01	0.42
13:7d:217:LEU:HG	13:7d:277:SER:HB3	2.01	0.42
12:7g:5:VAL:HG23	12:7g:130:LEU:HD11	2.02	0.42
13:7h:217:LEU:HG	13:7h:277:SER:HB3	2.01	0.42
12:8a:73:MET:CE	12:8a:92:PHE:HB3	2.48	0.42
13:8b:104:ALA:HB2	13:8b:413:MET:HB2	2.01	0.42
12:8c:60:VAL:HG11	12:8c:86:ARG:HH11	1.84	0.42
12:9a:384:GLN:O	12:9a:388:MET:HG3	2.20	0.42
13:9b:313:MET:HG3	13:9b:381:SER:HA	2.02	0.42
12:9c:7:ILE:HB	12:9c:135:VAL:HG22	2.02	0.42
12:9c:67:ASP:O	12:9c:92:PHE:HA	2.20	0.42
12:9c:91:VAL:CG2	12:9c:116:VAL:HG12	2.49	0.42
12:9e:21:TRP:CD1	12:9e:85:PHE:HE1	2.37	0.42
13:9f:224:TYR:HE2	12:9g:246:LEU:HB2	1.85	0.42
13:9f:313:MET:HG3	13:9f:381:SER:HA	2.02	0.42
13:9h:147:SER:HB2	13:9h:190:SER:HB3	2.01	0.42
12:Ac:177:ASP:OD2	13:Ad:248:LEU:HD21	2.20	0.42
13:Ad:144:GLY:N	54:Ae:501:GTP:O2G	2.53	0.42
13:Ad:176:GLN:O	12:Ae:331:LEU:HD13	2.20	0.42
12:Ae:3:GLU:HB3	12:Ae:62:ARG:NH2	2.35	0.42
12:Ae:69:GLU:OE1	13:Af:251:ASP:OD1	2.38	0.42
13:Af:174:SER:OG	13:Af:175:PRO:HD2	2.19	0.42
12:Ba:21:TRP:CD1	12:Ba:85:PHE:HE1	2.37	0.42
12:Ba:139:LEU:HD22	12:Ba:188:SER:HB2	2.01	0.42
12:Ba:248:ALA:HB1	12:Ba:350:LYS:NZ	2.35	0.42
12:Bg:27:GLU:OE2	12:Bg:318:ARG:NH2	2.36	0.42
12:Ca:113:ILE:HD11	12:Ca:154:LYS:HG3	2.02	0.42
13:Cd:104:ALA:HB2	13:Cd:413:MET:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ce:286:VAL:O	12:Ce:290:THR:HG23	2.20	0.42
13:Cf:147:SER:HB2	13:Cf:190:SER:HB3	2.01	0.42
12:Cg:139:LEU:HD22	12:Cg:188:SER:HB3	2.02	0.42
12:Cg:145:SER:HB2	12:Cg:188:SER:OG	2.19	0.42
13:Ch:147:SER:HB2	13:Ch:190:SER:HB3	2.01	0.42
13:Db:33:ASP:OD2	13:Db:35:GLN:NE2	2.53	0.42
12:Dc:5:VAL:HG23	12:Dc:130:LEU:HD11	2.02	0.42
12:Dc:67:ASP:O	12:Dc:92:PHE:HA	2.20	0.42
12:Dc:97:ALA:O	12:Dc:99:ASN:N	2.53	0.42
13:Dd:217:LEU:HG	13:Dd:277:SER:HB3	2.01	0.42
13:Df:104:ALA:HB2	13:Df:413:MET:HB2	2.01	0.42
12:Dg:64:ILE:HD13	12:Dg:120:VAL:HG22	2.01	0.42
12:Dg:384:GLN:NE2	13:Dh:349:THR:HG22	2.35	0.42
13:Dh:144:GLY:N	54:Dh:501:GTP:O2G	2.52	0.42
1:0A:357:ALA:O	1:0A:403:ALA:HB2	2.20	0.42
1:0B:354:SER:HB3	1:0B:399:LYS:HG3	2.01	0.42
1:0C:411:LEU:HD23	1:0C:417:LEU:HG	2.00	0.42
1:0D:34:ILE:HD13	1:0D:71:TYR:HB2	2.02	0.42
1:0D:348:PRO:HA	1:0D:353:LYS:HE3	2.02	0.42
1:0E:210:ALA:O	1:0E:214:LEU:HG	2.19	0.42
1:0E:344:LEU:HD23	1:0E:347:GLU:OE2	2.20	0.42
1:0E:371:ALA:HA	1:0E:407:VAL:HG12	2.01	0.42
1:0F:18:VAL:HG22	1:0F:57:ILE:HG12	2.02	0.42
1:0F:213:TYR:O	1:0F:216:PRO:HD2	2.19	0.42
1:0M:320:ILE:HB	1:0M:327:LEU:HD13	2.01	0.42
1:0N:127:LEU:O	1:0N:131:VAL:HG13	2.19	0.42
1:0O:143:GLU:HB2	1:0O:183:LEU:HD13	2.02	0.42
1:0P:394:ASP:OD1	1:0P:395:ASP:N	2.52	0.42
1:0S:28:ALA:O	1:0S:34:ILE:HD11	2.20	0.42
1:0T:30:ASN:O	1:0T:34:ILE:HG13	2.19	0.42
1:0T:128:ASP:OD1	1:0T:129:SER:N	2.52	0.42
1:0U:13:TYR:O	1:0U:17:ARG:HG3	2.20	0.42
1:0V:106:CYS:O	1:0V:110:VAL:HG23	2.18	0.42
1:0V:156:ASN:HD21	1:0V:159:LEU:HD13	1.84	0.42
1:0Y:286:ALA:HB1	1:0Y:320:ILE:HG22	2.02	0.42
1:0Z:236:ILE:HG22	1:0Z:243:LEU:HB3	2.01	0.42
1:1A:34:ILE:HD13	1:1A:71:TYR:HB2	2.01	0.42
1:1A:98:PHE:CD1	5:1L:597:LYS:HB2	2.55	0.42
1:1A:213:TYR:O	1:1A:216:PRO:HD2	2.20	0.42
1:1B:185:ARG:HD2	1:1B:224:LYS:HB3	2.02	0.42
1:1C:28:ALA:HB1	1:1C:67:ARG:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:135:VAL:C	2:1D:137:PHE:N	2.78	0.42
3:1H:223:LEU:O	3:1H:226:SER:OG	2.35	0.42
3:1H:984:GLN:CG	47:6A:395:VAL:HG21	2.50	0.42
3:1H:1006:ASP:HB2	47:6A:406:ARG:HA	2.01	0.42
3:1I:839:ASN:HB2	3:1I:842:HIS:CD2	2.54	0.42
3:1I:946:VAL:O	3:1I:950:ILE:HG13	2.19	0.42
4:1J:19:ALA:HB2	4:1J:54:VAL:HB	2.01	0.42
4:1J:178:ARG:HB3	47:6B:95:TYR:OH	2.20	0.42
4:1J:215:LEU:N	4:1J:251:GLN:O	2.49	0.42
4:1J:270:ILE:O	4:1J:270:ILE:HG13	2.19	0.42
4:1K:215:LEU:N	4:1K:251:GLN:O	2.49	0.42
6:1N:1870:ASP:O	6:1N:1874:THR:HG23	2.20	0.42
7:1O:1420:TRP:CD2	7:1O:1481:LEU:HD22	2.54	0.42
7:1O:2862:HIS:HB2	7:1O:3032:GLN:OE1	2.20	0.42
8:1P:979:VAL:HG23	8:1P:980:ARG:N	2.34	0.42
9:1Q:369:ALA:HB3	9:1Q:372:ALA:HB2	2.01	0.42
10:1S:365:VAL:N	12:Bg:337:ASN:OD1	2.53	0.42
10:1S:365:VAL:N	12:Bg:337:ASN:HD21	2.16	0.42
12:1a:286:VAL:O	12:1a:290:THR:HG23	2.20	0.42
13:1b:174:SER:OG	13:1b:175:PRO:HD2	2.19	0.42
13:1f:313:MET:HG3	13:1f:381:SER:HA	2.02	0.42
13:1h:288:VAL:HG21	13:1h:327:ASP:HB3	2.02	0.42
14:2G:55:GLN:O	14:2G:59:MET:HG2	2.20	0.42
17:2J:30:UNK:O	17:2J:31:UNK:C	2.68	0.42
12:2a:204:ASN:HD21	53:2a:501:GDP:HN22	1.68	0.42
12:2c:55:THR:HG21	12:3c:284:LEU:HD13	2.01	0.42
13:2d:144:GLY:N	54:2d:501:GTP:O2G	2.52	0.42
13:2d:217:LEU:HG	13:2d:277:SER:HB3	2.01	0.42
12:2g:381:VAL:HB	12:2g:415:MET:HE1	2.01	0.42
30:3F:382:TRP:CH2	13:8f:339:ARG:HG3	2.55	0.42
31:3I:261:ALA:O	31:3I:265:GLU:HG2	2.20	0.42
32:3J:307:ALA:HA	32:3J:312:LEU:HG	2.02	0.42
34:3O:477:GLU:OE2	34:3O:481:LEU:HD11	2.19	0.42
34:3Q:333:ARG:O	34:3Q:336:ARG:HG2	2.20	0.42
34:3R:80:LEU:HD23	34:3R:80:LEU:HA	1.90	0.42
34:3R:471:ARG:HA	34:3W:496:TYR:OH	2.20	0.42
34:3S:262:THR:OG1	34:3S:470:SER:OG	2.28	0.42
34:3S:284:PHE:HD2	34:3S:445:TYR:HE1	1.67	0.42
34:3T:75:GLN:HG3	34:3T:419:LEU:HD23	2.01	0.42
34:3U:334:LEU:HD21	34:3U:393:ALA:HB1	2.02	0.42
34:3U:436:ARG:HD3	34:3U:436:ARG:HA	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3V:93:VAL:O	34:3V:97:LEU:HG	2.20	0.42
34:3V:328:MET:O	34:3V:332:GLU:HG3	2.20	0.42
34:3V:338:LEU:HD13	34:3V:338:LEU:HA	1.85	0.42
34:3W:386:HIS:O	34:3W:390:LEU:HD13	2.20	0.42
34:3W:482:LEU:O	34:3W:486:ARG:HG3	2.20	0.42
34:3X:258:TYR:CD1	34:3X:474:TRP:CD1	3.08	0.42
34:3X:506:GLU:O	34:3X:507:VAL:HB	2.20	0.42
34:3Z:449:GLU:OE2	34:3Z:453:ARG:NH2	2.53	0.42
34:3Z:503:ASN:HA	34:3Z:506:GLU:CD	2.44	0.42
12:3a:86:ARG:CZ	12:4a:281:TYR:HA	2.45	0.42
13:3b:104:ALA:HB2	13:3b:413:MET:HB2	2.01	0.42
13:3b:371:VAL:HG22	13:3b:373:ARG:H	1.85	0.42
13:3d:104:ALA:HB2	13:3d:413:MET:HB2	2.01	0.42
13:3f:248:LEU:HA	13:3f:248:LEU:HD23	1.79	0.42
13:3f:288:VAL:HG21	13:3f:327:ASP:HB3	2.02	0.42
13:3f:371:VAL:HG22	13:3f:373:ARG:H	1.85	0.42
13:3h:248:LEU:HA	13:3h:248:LEU:HD23	1.79	0.42
13:3h:288:VAL:HG21	13:3h:327:ASP:HB3	2.02	0.42
13:3h:371:VAL:HG22	13:3h:373:ARG:H	1.85	0.42
34:4B:50:GLN:O	34:4B:54:GLU:HG2	2.20	0.42
35:4C:517:MET:HE3	36:4D:129:ARG:NH2	2.35	0.42
35:4C:555:GLU:CD	35:4C:705:ARG:HH12	2.28	0.42
35:4C:784:LEU:HD11	37:4E:1766:VAL:HG22	2.02	0.42
35:4C:867:SER:C	35:4C:885:ARG:HH11	2.28	0.42
36:4D:146:TRP:O	36:4D:150:THR:HG23	2.20	0.42
36:4D:206:PRO:HD3	36:4D:243:ARG:CD	2.50	0.42
37:4E:514:TYR:HB3	37:4E:539:GLN:OE1	2.20	0.42
37:4E:570:LEU:HD22	37:4E:574:LEU:HD11	2.01	0.42
37:4E:577:LEU:HB2	43:5L:30:ARG:NH2	2.34	0.42
37:4E:588:PRO:C	43:5L:17:SER:C	2.88	0.42
37:4E:1105:LEU:HB2	43:5L:137:ARG:CZ	2.50	0.42
37:4E:1717:ALA:HA	37:4E:1730:LEU:HD13	2.00	0.42
37:4F:821:SER:HA	37:4F:868:GLN:O	2.20	0.42
37:4G:512:LEU:HA	37:4G:539:GLN:CD	2.45	0.42
37:4G:514:TYR:HE2	37:4G:538:GLU:OE2	2.02	0.42
37:4G:933:ARG:NH2	38:4I:71:GLU:CG	2.80	0.42
37:4G:1161:SER:HA	37:4G:1188:ALA:CA	2.49	0.42
37:4G:1294:ALA:HB2	37:4G:1308:TYR:HA	2.01	0.42
37:4H:943:ASP:OD2	37:4H:951:ASN:ND2	2.49	0.42
37:4H:1323:ILE:CG2	38:4M:26:GLU:N	2.81	0.42
38:4J:38:VAL:CG1	38:4J:41:LYS:HB3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4K:30:ALA:HA	38:4K:33:LYS:HG2	2.01	0.42
38:4L:25:PRO:C	38:4L:28:VAL:N	2.61	0.42
40:4T:439:GLY:N	40:4T:442:SER:OG	2.53	0.42
40:4T:638:THR:C	40:4T:640:GLU:N	2.78	0.42
40:4U:251:LEU:HD21	40:4U:262:GLN:HE22	1.83	0.42
40:4V:51:VAL:HG23	40:4V:77:VAL:HG21	2.02	0.42
40:4V:737:ALA:HB1	40:4V:827:ASN:HB3	2.02	0.42
12:4a:282:ARG:NH2	12:4a:292:GLN:OE1	2.49	0.42
12:4a:406:MET:O	12:4a:409:THR:OG1	2.33	0.42
12:4e:60:VAL:HG22	12:4e:61:PRO:O	2.20	0.42
12:4g:5:VAL:HG23	12:4g:130:LEU:HD11	2.01	0.42
42:5H:11:THR:OG1	42:5H:14:GLU:HG2	2.20	0.42
42:5H:85:CYS:O	42:5H:88:GLY:N	2.51	0.42
42:5H:130:ALA:C	43:5L:53:ASP:CB	2.93	0.42
43:5K:84:HIS:CA	43:5K:87:ILE:HD12	2.31	0.42
44:5U:135:ASP:OD2	44:5U:137:ASP:N	2.47	0.42
13:5d:107:HIS:O	13:5d:112:LYS:NZ	2.41	0.42
12:5e:16:ILE:HD11	12:5e:229:ILE:CG2	2.50	0.42
13:5f:33:ASP:OD2	13:5f:35:GLN:NE2	2.53	0.42
13:5f:203:MET:C	13:5f:204:LEU:HD12	2.45	0.42
47:6B:1236:LYS:O	51:6N:2365:LEU:HD11	2.19	0.42
47:6B:1592:LEU:HD13	47:6B:1596:TRP:NE1	2.31	0.42
3:6D:661:GLY:N	3:6D:662:PRO:HD2	2.34	0.42
3:6D:688:LEU:HD23	3:6D:688:LEU:HA	1.71	0.42
48:6E:73:LEU:HG	48:6E:92:LEU:HD11	2.02	0.42
48:6E:157:ARG:NH1	49:6G:281:LYS:NZ	2.67	0.42
48:6E:708:ALA:HB1	48:6E:770:LEU:HD12	2.02	0.42
48:6F:337:ARG:HG2	48:6F:337:ARG:HH11	1.84	0.42
49:6G:269:VAL:O	49:6G:273:ILE:HG13	2.19	0.42
49:6H:84:SER:HB2	49:6H:416:ARG:HH21	1.84	0.42
49:6H:88:HIS:HB2	49:6H:366:VAL:HG21	2.02	0.42
49:6H:211:MET:HE3	49:6H:211:MET:HB2	1.96	0.42
50:6K:88:ILE:HB	50:6K:89:LYS:NZ	2.34	0.42
50:6K:156:ASP:OD2	50:6K:492:LEU:HD23	2.20	0.42
50:6K:267:ARG:HA	50:6K:267:ARG:HD2	1.75	0.42
50:6K:519:ASP:OD1	50:6K:520:GLU:HG3	2.20	0.42
50:6K:594:GLU:HG3	50:6K:596:GLU:HG2	2.01	0.42
50:6L:8:ILE:HG13	50:6L:21:VAL:HA	2.02	0.42
50:6L:519:ASP:OD1	50:6L:520:GLU:HG3	2.20	0.42
51:6M:1532:LEU:HD22	51:6M:1983:HIS:HE1	1.85	0.42
51:6N:1241:VAL:HG21	51:6N:1255:CYS:SG	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6N:1277:VAL:HG13	51:6N:1288:LYS:HE2	2.02	0.42
51:6N:1681:ASP:HB3	51:6N:1683:HIS:HD2	1.84	0.42
51:6N:2260:ALA:C	51:6N:2262:ASP:N	2.77	0.42
51:6N:2293:ALA:HB3	51:6N:2298:CYS:SG	2.59	0.42
12:6a:151:LEU:O	12:6a:155:ILE:HG12	2.19	0.42
12:6a:256:ASN:HD22	12:6a:350:LYS:CD	2.32	0.42
12:6a:290:THR:HG22	12:6a:317:PHE:HZ	1.85	0.42
13:6b:217:LEU:HG	13:6b:277:SER:HB3	2.01	0.42
13:6d:206:ASN:OD1	54:6e:501:GTP:N2	2.49	0.42
13:6d:407:TRP:CE2	12:6e:255:VAL:HA	2.55	0.42
13:6f:217:LEU:HG	13:6f:277:SER:HB3	2.01	0.42
13:6h:147:SER:HB2	13:6h:190:SER:HB3	2.01	0.42
13:6h:246:GLY:N	13:6h:249:ASN:OD1	2.43	0.42
12:7a:174:LYS:HZ3	13:7b:333:ALA:HB2	1.80	0.42
12:7a:328:GLU:O	12:7a:331:LEU:HG	2.20	0.42
12:7e:374:ILE:HD11	12:7e:422:TYR:CZ	2.55	0.42
13:7f:90:GLU:OE1	13:7f:121:ARG:NE	2.44	0.42
12:7g:64:ILE:HD13	12:7g:120:VAL:HG22	2.01	0.42
13:7h:33:ASP:OD2	13:7h:35:GLN:NE2	2.53	0.42
13:7h:313:MET:HG3	13:7h:381:SER:HA	2.02	0.42
13:7h:371:VAL:HG22	13:7h:373:ARG:H	1.85	0.42
12:8a:48:ASN:O	12:8a:62:ARG:NH2	2.46	0.42
12:8c:87:PRO:HG2	12:9c:278:SER:HB2	2.01	0.42
12:8c:335:ASN:O	12:8c:338:SER:OG	2.38	0.42
12:8c:362:LYS:HG2	12:8c:363:MET:HG3	2.02	0.42
13:8d:203:MET:C	13:8d:204:LEU:HD12	2.45	0.42
12:8e:165:LEU:HB2	12:8e:250:LEU:HD21	2.02	0.42
12:8e:245:GLN:HB3	12:8e:353:VAL:HG13	2.02	0.42
13:8f:203:MET:C	13:8f:204:LEU:HD12	2.45	0.42
13:8f:217:LEU:HG	13:8f:277:SER:HB3	2.01	0.42
13:8h:203:MET:C	13:8h:204:LEU:HD12	2.45	0.42
13:9b:174:SER:OG	13:9b:175:PRO:HD2	2.19	0.42
13:9b:237:SER:HA	13:9b:320:ARG:HD2	2.01	0.42
13:9d:33:ASP:OD2	13:9d:35:GLN:NE2	2.53	0.42
12:9e:164:MET:O	12:9e:166:THR:HG23	2.20	0.42
12:9g:161:ASP:OD1	12:9g:162:ARG:N	2.53	0.42
12:Aa:176:SER:HB2	12:Aa:181:GLU:OE1	2.19	0.42
12:Aa:210:ILE:HD11	12:Aa:228:LEU:HD13	2.02	0.42
13:Ab:203:MET:C	13:Ab:204:LEU:HD12	2.45	0.42
13:Af:33:ASP:OD2	13:Af:35:GLN:NE2	2.53	0.42
13:Af:222:PRO:O	12:Ag:322:SER:OG	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ah:90:GLU:OE1	13:Ah:121:ARG:NE	2.44	0.42
13:Ah:179:THR:OG1	54:Ah:501:GTP:O3'	2.37	0.42
12:Ba:396:HIS:CD2	13:Bb:261:PRO:O	2.73	0.42
12:Bc:107:THR:OG1	12:Bc:108:GLU:N	2.52	0.42
12:Bc:172:SER:HB2	12:Bc:205:GLU:HB2	2.02	0.42
13:Bd:52:PHE:HZ	13:Bd:239:THR:HG21	1.84	0.42
13:Bd:181:VAL:H	12:Be:256:ASN:ND2	2.18	0.42
12:Be:396:HIS:CD2	13:Bf:261:PRO:O	2.73	0.42
13:Bf:273:ALA:N	13:Bf:375:VAL:O	2.48	0.42
13:Bh:52:PHE:HZ	13:Bh:239:THR:HG21	1.85	0.42
13:Cb:104:ALA:HB2	13:Cb:413:MET:HB2	2.01	0.42
13:Cf:104:ALA:HB2	13:Cf:413:MET:HB2	2.01	0.42
13:Ch:104:ALA:HB2	13:Ch:413:MET:HB2	2.01	0.42
12:Da:210:ILE:HG22	12:Da:297:LYS:O	2.20	0.42
12:Da:211:CYS:SG	12:Da:220:PRO:HB3	2.60	0.42
12:Dg:294:TRP:CD2	12:Dg:333:VAL:HG11	2.55	0.42
13:Dh:104:ALA:HB2	13:Dh:413:MET:HB2	2.01	0.42
1:0H:85:LEU:CD1	1:0H:107:LEU:HD23	2.47	0.42
1:0H:167:GLY:C	1:0H:169:VAL:H	2.24	0.42
1:0J:382:THR:O	1:0J:386:LEU:HG	2.20	0.42
1:0I:307:GLY:O	1:0I:311:LEU:HG	2.20	0.42
1:0A:109:ALA:O	1:0A:113:HIS:CD2	2.72	0.41
1:0E:243:LEU:O	1:0E:247:VAL:HG23	2.19	0.41
1:0G:248:VAL:HG21	1:0G:285:LEU:CD2	2.40	0.41
1:0M:83:GLU:O	1:0M:86:PRO:HD2	2.20	0.41
1:0N:167:GLY:C	1:0N:169:VAL:H	2.23	0.41
1:0Q:307:GLY:O	1:0Q:311:LEU:HG	2.20	0.41
1:0R:85:LEU:HB3	1:0R:86:PRO:HD3	2.02	0.41
1:0R:213:TYR:O	1:0R:216:PRO:HD2	2.20	0.41
1:0R:248:VAL:HG21	1:0R:285:LEU:HG	2.02	0.41
1:0R:328:ALA:HA	1:0R:331:VAL:HG12	2.02	0.41
1:0U:295:VAL:O	1:0U:299:VAL:HG23	2.20	0.41
1:0U:332:ILE:HD13	1:0U:337:LEU:HD13	2.02	0.41
1:0V:270:HIS:O	1:0V:274:VAL:HG23	2.20	0.41
1:0X:236:ILE:HG22	1:0X:243:LEU:HB3	2.02	0.41
1:0Z:42:ALA:HB2	1:1A:10:PHE:HZ	1.85	0.41
1:0Z:278:VAL:HG22	1:0Z:285:LEU:HB3	2.01	0.41
1:0Z:411:LEU:HD23	1:0Z:417:LEU:HG	2.01	0.41
1:1A:63:LEU:HA	1:1A:63:LEU:HD23	1.39	0.41
1:1A:348:PRO:HA	1:1A:353:LYS:HE3	2.02	0.41
1:1B:344:LEU:HA	1:1B:347:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:311:LEU:CD1	1:1C:351:HIS:HD2	2.33	0.41
2:1D:298:ALA:O	2:1D:302:GLN:HG2	2.20	0.41
2:1E:60:ASP:C	2:1E:62:LEU:H	2.26	0.41
2:1E:240:VAL:HG12	2:1E:253:ALA:HB3	2.01	0.41
2:1F:137:PHE:O	2:1F:141:VAL:HG23	2.20	0.41
2:1F:345:GLY:HA2	2:1F:386:LEU:HD13	2.02	0.41
3:1H:944:GLU:HG2	3:1H:983:ARG:NH1	2.35	0.41
3:1H:1043:GLU:HG3	3:1H:1047:PHE:CE2	2.55	0.41
3:1I:934:LEU:HD22	3:1I:938:LEU:HD11	2.02	0.41
4:1J:293:LEU:HD13	4:1J:313:PHE:CD1	2.55	0.41
4:1K:299:THR:H	4:1K:307:LYS:HD3	1.85	0.41
5:1M:83:ALA:HA	5:1M:100:ILE:O	2.20	0.41
6:1N:316:ARG:HE	6:1N:317:ALA:N	2.09	0.41
6:1N:1033:PHE:CE1	6:1N:1086:LEU:HD21	2.55	0.41
6:1N:1833:LYS:HA	6:1N:1886:ARG:CD	2.50	0.41
6:1N:2623:PHE:HB3	6:1N:2651:LEU:HA	2.02	0.41
7:1O:228:TYR:CD1	8:1P:877:VAL:HG22	2.55	0.41
10:1R:393:ALA:O	13:Ab:123:ARG:CZ	2.68	0.41
10:1R:394:ARG:HG2	13:Ab:123:ARG:CD	2.50	0.41
12:1a:384:GLN:O	12:1a:388:MET:HG3	2.20	0.41
13:1b:147:SER:HB2	13:1b:190:SER:HB3	2.01	0.41
12:1c:161:ASP:OD1	12:1c:162:ARG:NH1	2.53	0.41
12:1c:379:LYS:O	12:1c:383:GLU:HG2	2.20	0.41
13:1f:273:ALA:N	13:1f:375:VAL:O	2.48	0.41
14:2F:55:GLN:O	14:2F:59:MET:HG2	2.20	0.41
14:2G:32:LYS:HD3	14:2G:36:GLU:O	2.19	0.41
23:2R:18:UNK:O	13:2d:123:ARG:NE	2.53	0.41
24:2U:141:ARG:NE	13:Dd:215:ARG:HH11	2.18	0.41
24:2V:209:TYR:CE2	12:Ce:261:PRO:HG2	2.55	0.41
12:2a:62:ARG:HD2	12:2a:127:CYS:SG	2.60	0.41
13:2b:217:LEU:HG	13:2b:277:SER:HB3	2.01	0.41
12:2e:211:CYS:SG	12:2e:220:PRO:HB3	2.59	0.41
12:2e:215:LEU:HB3	12:2e:217:LEU:HD13	2.02	0.41
12:2g:226:ASN:O	12:2g:230:SER:OG	2.36	0.41
13:2h:288:VAL:HG21	13:2h:327:ASP:HB3	2.02	0.41
29:3E:1221:ALA:HB2	12:5c:402:GLY:HA2	2.02	0.41
31:3I:351:PHE:HE1	31:3I:365:PHE:CE2	2.38	0.41
31:3I:392:VAL:O	31:3I:396:LEU:HG	2.20	0.41
32:3K:384:VAL:HG13	32:3K:389:LEU:HD11	2.00	0.41
33:3L:156:LEU:HD11	33:3L:160:LYS:HE3	2.02	0.41
34:3M:288:MET:HE3	34:3M:288:MET:HB3	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3M:503:ASN:HA	34:3M:506:GLU:CD	2.44	0.41
34:3Q:90:GLU:O	34:3Q:93:VAL:HG22	2.20	0.41
34:3S:254:MET:O	34:3S:258:TYR:HD1	2.03	0.41
34:3T:112:LYS:HA	34:3T:112:LYS:CE	2.47	0.41
34:3T:287:CYS:SG	34:3T:445:TYR:HB2	2.59	0.41
34:3U:71:LEU:HB2	34:3U:72:PRO:HD3	2.02	0.41
34:3Z:306:VAL:O	34:3Z:310:GLU:HG3	2.20	0.41
12:3a:208:TYR:CE1	13:3b:326:LYS:HB2	2.55	0.41
12:3c:67:ASP:O	12:3c:92:PHE:HA	2.20	0.41
13:3d:288:VAL:HG21	13:3d:327:ASP:HB3	2.02	0.41
13:3f:104:ALA:HB2	13:3f:413:MET:HB2	2.01	0.41
12:3g:107:THR:OG1	12:3g:108:GLU:N	2.53	0.41
13:3h:237:SER:HA	13:3h:320:ARG:HD2	2.02	0.41
34:4A:388:ALA:CB	37:4F:846:PRO:HG3	2.50	0.41
34:4A:408:ARG:NE	34:4A:408:ARG:HA	2.35	0.41
34:4B:74:LEU:HD21	34:4B:191:ALA:HB1	2.02	0.41
35:4C:314:ARG:HB3	35:4C:354:ALA:HB1	2.01	0.41
37:4E:570:LEU:C	37:4E:574:LEU:HB2	2.31	0.41
37:4E:581:LEU:HD13	43:5L:32:LEU:H	1.84	0.41
37:4E:774:HIS:CE1	37:4E:1639:THR:HG21	2.55	0.41
37:4E:1469:GLU:O	37:4E:1469:GLU:HG2	2.20	0.41
37:4F:903:THR:HG23	37:4F:906:THR:H	1.85	0.41
37:4F:972:PHE:HD2	37:4F:974:VAL:HG23	1.80	0.41
37:4G:1324:THR:HG21	37:4G:1753:GLN:NE2	2.35	0.41
37:4G:1336:ASP:N	37:4G:1336:ASP:OD2	2.50	0.41
37:4H:518:LEU:HG	37:4H:678:LEU:HD11	2.02	0.41
37:4H:583:GLU:OE1	43:5J:28:THR:HB	2.19	0.41
37:4H:1071:THR:O	37:4H:1087:THR:HG23	2.20	0.41
37:4H:1161:SER:HA	37:4H:1188:ALA:CA	2.50	0.41
38:4I:31:ALA:O	38:4I:32:GLU:C	2.60	0.41
38:4L:30:ALA:HA	38:4L:33:LYS:HG2	2.01	0.41
38:4M:32:GLU:HA	38:4M:32:GLU:OE1	2.18	0.41
38:4N:73:PRO:CD	38:4N:76:PRO:HG3	2.34	0.41
40:4V:358:ASP:OD2	40:4V:359:GLU:N	2.52	0.41
12:4a:73:MET:CE	12:4a:92:PHE:HB3	2.48	0.41
12:4a:328:GLU:O	12:4a:331:LEU:HG	2.19	0.41
13:4b:248:LEU:HD23	13:4b:248:LEU:HA	1.79	0.41
12:4c:267:MET:HG2	12:4c:301:CYS:HB3	2.02	0.41
13:4d:175:PRO:O	13:4d:394:LYS:NZ	2.46	0.41
12:4e:249:ASP:N	12:4e:252:LYS:HD3	2.26	0.41
12:4e:322:SER:O	12:4e:326:VAL:HG23	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:5E:153:TYR:O	43:5I:152:LEU:HG	2.20	0.41
42:5H:91:TYR:CE1	43:5L:49:ALA:N	2.88	0.41
42:5H:137:TYR:O	42:5H:139:LEU:CA	2.68	0.41
42:5H:157:LEU:H	43:5L:157:ALA:N	2.18	0.41
43:5I:23:PRO:HG2	43:5I:24:LYS:CD	2.50	0.41
43:5I:34:ALA:CB	43:5I:42:TYR:CZ	3.02	0.41
44:5S:108:GLU:O	44:5S:112:VAL:HG23	2.20	0.41
13:5b:203:MET:C	13:5b:204:LEU:HD12	2.45	0.41
13:5d:174:SER:OG	13:5d:175:PRO:HD2	2.19	0.41
13:5d:313:MET:HG3	13:5d:381:SER:HA	2.02	0.41
13:5f:217:LEU:HG	13:5f:277:SER:HB3	2.01	0.41
13:5h:144:GLY:N	54:5h:501:GTP:O2G	2.52	0.41
13:5h:203:MET:C	13:5h:204:LEU:HD12	2.45	0.41
47:6A:1097:ALA:HB1	47:6A:1101:ARG:NH1	2.35	0.41
47:6B:290:GLY:N	3:6D:197:SER:CB	2.83	0.41
47:6B:371:MET:HE3	47:6B:371:MET:HB3	1.75	0.41
47:6B:1014:GLU:O	47:6B:1018:VAL:HG23	2.20	0.41
47:6B:1772:LEU:HD23	47:6B:1772:LEU:HA	1.62	0.41
48:6E:609:TRP:CZ3	48:6E:646:TYR:HD1	2.38	0.41
48:6E:966:GLU:HA	48:6E:966:GLU:OE2	2.20	0.41
48:6F:708:ALA:HB1	48:6F:770:LEU:HD12	2.02	0.41
49:6G:88:HIS:HB2	49:6G:366:VAL:HG21	2.02	0.41
49:6G:285:GLY:HA2	49:6G:333:VAL:CG2	2.48	0.41
49:6G:358:GLN:HB2	49:6G:473:ARG:NE	2.34	0.41
49:6I:136:MET:HE3	49:6I:136:MET:HB3	1.80	0.41
49:6I:205:LEU:HD12	49:6I:205:LEU:HA	1.92	0.41
49:6J:22:LEU:HD12	49:6J:22:LEU:HA	1.95	0.41
50:6L:8:ILE:HD13	50:6L:133:ALA:CB	2.50	0.41
50:6L:156:ASP:OD2	50:6L:492:LEU:HD23	2.20	0.41
51:6M:2260:ALA:C	51:6M:2262:ASP:N	2.77	0.41
51:6M:2491:GLU:HG3	51:6M:2495:LYS:HE3	2.02	0.41
13:6b:147:SER:HB2	13:6b:190:SER:HB3	2.01	0.41
13:6b:206:ASN:OD1	54:6c:501:GTP:N2	2.49	0.41
12:6c:208:TYR:CE1	12:6c:225:LEU:HD11	2.55	0.41
12:6c:284:LEU:HD13	12:6c:362:LYS:HB3	2.02	0.41
13:6d:217:LEU:HG	13:6d:277:SER:HB3	2.01	0.41
12:6e:68:LEU:HD23	12:6e:143:THR:HG23	2.01	0.41
12:6e:286:VAL:HG22	12:6e:321:MET:SD	2.61	0.41
13:6f:52:PHE:HZ	13:6f:239:THR:HG21	1.84	0.41
12:6g:208:TYR:CE1	12:6g:225:LEU:HD11	2.55	0.41
13:6h:217:LEU:HG	13:6h:277:SER:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:7a:21:TRP:CD1	12:7a:85:PHE:HE1	2.38	0.41
12:7a:342:VAL:HG21	12:7a:345:ILE:HD12	2.02	0.41
12:7g:161:ASP:OD1	12:7g:161:ASP:N	2.52	0.41
13:7h:104:ALA:HB2	13:7h:413:MET:HB2	2.01	0.41
13:8b:52:PHE:HZ	13:8b:239:THR:HG21	1.85	0.41
13:8d:104:ALA:HB2	13:8d:413:MET:HB2	2.01	0.41
13:8f:104:ALA:HB2	13:8f:413:MET:HB2	2.01	0.41
12:8g:335:ASN:O	12:8g:338:SER:OG	2.38	0.41
13:8h:144:GLY:N	54:8h:501:GTP:O2G	2.52	0.41
13:8h:248:LEU:HA	13:8h:248:LEU:HD23	1.79	0.41
13:8h:371:VAL:HG22	13:8h:373:ARG:H	1.85	0.41
12:9a:13:GLY:HA2	12:9a:16:ILE:HG22	2.02	0.41
13:9b:203:MET:C	13:9b:204:LEU:HD12	2.45	0.41
13:9b:288:VAL:HG21	13:9b:327:ASP:HB3	2.02	0.41
12:9c:135:VAL:HG12	12:9c:137:HIS:HD2	1.85	0.41
13:9d:237:SER:HA	13:9d:320:ARG:HD2	2.02	0.41
13:9d:313:MET:HG3	13:9d:381:SER:HA	2.02	0.41
12:9e:327:ASP:OD1	12:9e:328:GLU:N	2.53	0.41
13:9h:273:ALA:N	13:9h:375:VAL:O	2.48	0.41
12:Aa:68:LEU:HD11	12:Aa:108:GLU:HB3	2.02	0.41
12:Aa:71:GLY:HA3	13:Ab:245:ASP:OD2	2.20	0.41
13:Ab:33:ASP:OD2	13:Ab:35:GLN:NE2	2.53	0.41
12:Ae:1:MET:HE2	12:Ae:1:MET:HB3	1.84	0.41
12:Ae:257:LEU:HD23	12:Ae:312:THR:HG22	2.02	0.41
13:Af:144:GLY:N	54:Af:501:GTP:O2G	2.52	0.41
13:Ah:217:LEU:HG	13:Ah:277:SER:HB3	2.01	0.41
13:Bb:33:ASP:OD2	13:Bb:35:GLN:NE2	2.53	0.41
13:Bd:179:THR:OG1	54:Bd:501:GTP:O3'	2.37	0.41
12:Be:99:ASN:HD21	13:Bf:352:LYS:HZ3	1.68	0.41
12:Be:257:LEU:HD23	12:Be:312:THR:HG22	2.02	0.41
12:Bg:64:ILE:HD13	12:Bg:120:VAL:HG22	2.01	0.41
13:Bh:203:MET:C	13:Bh:204:LEU:HD12	2.45	0.41
13:Cb:313:MET:HG3	13:Cb:381:SER:HA	2.02	0.41
13:Cd:313:MET:HG3	13:Cd:381:SER:HA	2.02	0.41
12:Ce:98:GLY:C	13:Cf:254:GLU:HG2	2.44	0.41
12:Ce:207:LEU:O	12:Ce:210:ILE:HG12	2.20	0.41
12:Ce:286:VAL:HG22	12:Ce:321:MET:SD	2.60	0.41
12:Ce:399:THR:OG1	12:Ce:405:GLU:OE2	2.38	0.41
13:Ch:52:PHE:HZ	13:Ch:239:THR:HG21	1.85	0.41
13:Ch:371:VAL:HG22	13:Ch:373:ARG:H	1.85	0.41
12:Da:417:ASP:O	12:Da:421:GLU:HG2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Db:407:TRP:HE1	12:Dc:258:ILE:HB	1.85	0.41
13:Dd:33:ASP:OD2	13:Dd:35:GLN:NE2	2.53	0.41
13:Dd:313:MET:HG3	13:Dd:381:SER:HA	2.02	0.41
13:Df:33:ASP:OD2	13:Df:35:GLN:NE2	2.53	0.41
1:0J:359:THR:O	1:0J:363:ILE:HG13	2.19	0.41
1:0W:302:ILE:HA	1:0W:310:ARG:HB2	2.01	0.41
1:0I:30:ASN:O	1:0I:34:ILE:HG13	2.19	0.41
1:0K:159:LEU:O	1:0K:163:VAL:HG23	2.20	0.41
1:0K:380:LEU:CD2	1:0K:407:VAL:HG21	2.51	0.41
1:0A:83:GLU:CD	47:6B:117:LEU:HD12	2.45	0.41
1:0A:117:LEU:HA	1:0A:120:SER:OG	2.21	0.41
1:0C:218:VAL:HG22	1:0C:229:VAL:CG2	2.51	0.41
1:0C:231:CYS:O	1:0C:235:GLN:HG2	2.20	0.41
1:0E:122:ILE:HG12	1:0E:127:LEU:HD21	2.02	0.41
1:0G:138:ASP:O	1:0G:142:LYS:HE2	2.20	0.41
1:0N:201:LEU:HA	1:0N:201:LEU:HD23	1.80	0.41
1:0P:322:ALA:HB2	1:0P:362:GLN:HG2	2.02	0.41
1:0Q:30:ASN:O	1:0Q:34:ILE:HG13	2.19	0.41
1:0R:142:LYS:HE3	1:0R:183:LEU:HD13	2.02	0.41
1:0S:231:CYS:O	1:0S:235:GLN:HG2	2.18	0.41
1:0S:324:SER:OG	1:0S:327:LEU:HD12	2.20	0.41
1:0T:231:CYS:O	1:0T:235:GLN:HG2	2.20	0.41
1:0T:411:LEU:HD23	1:0T:417:LEU:HG	2.01	0.41
1:0U:231:CYS:O	1:0U:235:GLN:HG2	2.19	0.41
1:0V:275:VAL:HG11	1:0V:298:LEU:HD11	2.02	0.41
1:0V:307:GLY:HA2	1:0V:310:ARG:HG2	2.02	0.41
1:0X:73:ASP:OD1	1:0X:113:HIS:HB3	2.21	0.41
1:0X:164:VAL:O	1:0X:167:GLY:HA2	2.20	0.41
1:0X:343:ALA:C	1:0X:347:GLU:HG3	2.45	0.41
1:0X:348:PRO:HG2	1:0X:349:GLU:OE1	2.20	0.41
1:0Y:12:ARG:O	1:0Y:16:GLU:HG2	2.20	0.41
1:0Z:142:LYS:HG3	1:0Z:183:LEU:CD1	2.40	0.41
1:1B:43:MET:HE1	1:1B:78:ALA:HB3	2.01	0.41
1:1C:23:ALA:O	1:1C:27:MET:HG2	2.20	0.41
1:1C:192:SER:OG	1:1C:232:ALA:N	2.53	0.41
2:1D:234:PRO:HB2	2:1D:235:PRO:HD3	2.03	0.41
4:1J:299:THR:H	4:1J:307:LYS:HD3	1.85	0.41
4:1K:293:LEU:HD13	4:1K:313:PHE:CD1	2.55	0.41
5:1L:490:GLU:O	5:1L:493:THR:HG22	2.20	0.41
5:1M:490:GLU:O	5:1M:493:THR:HG22	2.20	0.41
6:1N:476:ARG:HB2	6:1N:510:TYR:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1N:1031:GLY:HA2	6:1N:1034:TRP:HD1	1.85	0.41
6:1N:1359:GLU:CD	6:1N:1482:THR:HG21	2.46	0.41
6:1N:2629:PHE:CZ	6:1N:2633:VAL:HG21	2.55	0.41
7:1O:1067:LEU:CD2	7:1O:2747:LEU:HD12	2.51	0.41
10:1S:63:GLN:HG3	10:1S:82:LEU:HG	2.03	0.41
10:1S:368:VAL:N	12:Bg:332:ASN:ND2	2.67	0.41
10:1S:382:LEU:CD2	12:Bg:324:LYS:HE3	2.50	0.41
10:1S:397:PRO:HG2	13:Bf:338:LYS:CA	2.39	0.41
10:1S:409:TYR:CD2	13:Bf:326:LYS:HE2	2.55	0.41
10:1S:415:TYR:HB3	13:Af:127:ASP:O	2.20	0.41
10:1S:427:TYR:HE2	12:Be:216:LYS:CD	2.28	0.41
12:1a:172:SER:HB2	12:1a:205:GLU:CG	2.50	0.41
12:1a:321:MET:HE3	12:1a:321:MET:HB2	1.97	0.41
12:1c:378:PHE:HD1	12:1c:415:MET:HE3	1.85	0.41
12:1e:177:ASP:HB3	53:1e:501:GDP:O3'	2.20	0.41
13:1f:33:ASP:OD2	13:1f:35:GLN:NE2	2.53	0.41
13:1f:147:SER:HB2	13:1f:190:SER:HB3	2.01	0.41
12:1g:382:SER:O	12:1g:386:THR:HG22	2.19	0.41
13:1h:237:SER:HA	13:1h:320:ARG:HD2	2.02	0.41
13:1h:313:MET:HG3	13:1h:381:SER:HA	2.02	0.41
24:2S:136:PRO:C	24:2S:138:ASP:H	2.28	0.41
24:2T:202:ARG:HB3	24:2T:220:TYR:CE1	2.55	0.41
24:2V:132:ARG:H	24:2V:151:PHE:HA	1.85	0.41
13:2d:288:VAL:HG21	13:2d:327:ASP:HB3	2.02	0.41
13:2f:179:THR:O	12:2g:350:LYS:HD2	2.20	0.41
13:2f:313:MET:HG3	13:2f:381:SER:HA	2.02	0.41
12:2g:391:ARG:NH2	13:2h:438:GLU:O	2.52	0.41
30:3G:725:TYR:CD2	13:6b:112:LYS:HD2	2.54	0.41
30:3G:747:ARG:NH1	12:6a:401:GLU:HA	2.35	0.41
31:3H:106:LYS:HG2	31:3H:217:ILE:HG23	2.02	0.41
31:3H:193:LEU:O	31:3H:197:GLU:HG3	2.20	0.41
31:3I:102:VAL:O	31:3I:106:LYS:HG3	2.21	0.41
31:3I:143:GLU:HB3	31:3I:175:ARG:CZ	2.50	0.41
31:3I:311:ARG:HG3	32:3K:388:MET:HB3	2.02	0.41
34:3M:51:GLY:O	34:3M:55:GLN:HG2	2.19	0.41
34:3M:203:ALA:C	34:3M:204:MET:HE2	2.46	0.41
34:3N:105:GLN:OE1	34:3N:105:GLN:HA	2.20	0.41
34:3N:106:ASP:O	34:3N:110:LEU:HG	2.20	0.41
34:3P:418:GLY:O	34:3P:422:HIS:CD2	2.73	0.41
34:3R:488:ARG:NH2	34:3R:492:LEU:HD21	2.35	0.41
34:3S:195:THR:HG21	34:3S:317:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3U:418:GLY:O	34:3U:422:HIS:CD2	2.73	0.41
34:3U:488:ARG:HA	34:3U:491:GLU:OE2	2.20	0.41
34:3V:485:TYR:CA	34:3X:248:PHE:HE1	2.33	0.41
34:3W:117:ARG:O	34:3W:121:LEU:HG	2.19	0.41
34:3X:84:GLU:HG2	34:4A:44:LYS:HZ1	1.83	0.41
34:3X:266:HIS:CE1	34:3X:270:ILE:HG13	2.55	0.41
34:3Y:60:TYR:HE2	34:3Y:430:GLY:HA2	1.84	0.41
34:3Z:356:PHE:CD2	34:3Z:375:TYR:HD1	2.38	0.41
13:3d:371:VAL:HG22	13:3d:373:ARG:H	1.85	0.41
12:3e:87:PRO:HD3	12:4e:281:TYR:CE1	2.55	0.41
13:3f:203:MET:C	13:3f:204:LEU:HD12	2.45	0.41
13:3h:104:ALA:HB2	13:3h:413:MET:HB2	2.01	0.41
35:4C:370:GLU:HG3	35:4C:387:ARG:HG2	2.02	0.41
36:4D:171:GLY:N	36:4D:201:LEU:O	2.37	0.41
37:4E:578:ASP:C	43:5L:42:TYR:CZ	2.98	0.41
37:4E:687:MET:CE	38:4P:50:ARG:HH12	2.33	0.41
37:4E:934:TRP:HE3	37:4E:959:LEU:HB2	1.85	0.41
37:4E:1356:VAL:HG22	37:4E:1372:PRO:HD3	2.02	0.41
37:4F:407:GLU:O	37:4F:411:THR:HG23	2.20	0.41
37:4F:408:VAL:O	37:4F:411:THR:OG1	2.36	0.41
37:4F:526:ARG:HB3	37:4F:680:VAL:HG11	2.02	0.41
37:4F:692:MET:CE	38:4K:87:HIS:HD2	2.33	0.41
37:4F:1082:LEU:CD1	38:4N:39:HIS:CD2	3.01	0.41
37:4F:1083:ILE:HG13	37:4F:1083:ILE:HG21	1.99	0.41
37:4F:1084:ARG:HB2	38:4N:37:GLY:O	2.20	0.41
37:4F:1304:MET:H	37:4F:1316:GLN:CG	2.33	0.41
37:4F:1331:TRP:HD1	37:4F:1333:VAL:HG23	1.84	0.41
37:4G:526:ARG:HB3	37:4G:680:VAL:HG11	2.03	0.41
37:4G:1335:MET:CG	37:4G:1338:PHE:H	2.18	0.41
37:4H:426:VAL:HG11	37:4H:853:VAL:HB	2.02	0.41
37:4H:969:LEU:CD2	37:4H:1377:VAL:HG21	2.50	0.41
37:4H:1084:ARG:HH11	37:4H:1086:THR:CG2	2.32	0.41
38:4I:26:GLU:CD	38:4I:26:GLU:CB	2.70	0.41
40:4U:76:ARG:HG2	40:4U:403:TYR:OH	2.20	0.41
40:4U:638:THR:C	40:4U:640:GLU:N	2.78	0.41
40:4V:439:GLY:N	40:4V:442:SER:OG	2.53	0.41
41:4X:144:HIS:HA	41:4X:162:PHE:HA	2.00	0.41
12:4c:64:ILE:HD13	12:4c:120:VAL:HG22	2.01	0.41
42:5H:85:CYS:CA	42:5H:137:TYR:CE1	3.02	0.41
42:5H:94:CYS:N	43:5L:45:ASN:CA	2.83	0.41
42:5H:135:ARG:HB2	43:5L:50:ILE:O	2.15	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5K:34:ALA:C	43:5K:35:LYS:CD	2.91	0.41
44:5T:137:ASP:OD1	44:5T:138:GLY:N	2.50	0.41
44:5V:105:SER:HA	44:5V:139:GLN:HG2	2.02	0.41
13:5b:144:GLY:N	54:5c:501:GTP:O2G	2.52	0.41
12:5c:1:MET:SD	12:5c:2:ARG:HG3	2.61	0.41
13:5d:203:MET:C	13:5d:204:LEU:HD12	2.45	0.41
13:5f:52:PHE:HZ	13:5f:239:THR:HG21	1.85	0.41
13:5f:313:MET:HG3	13:5f:381:SER:HA	2.02	0.41
13:5h:203:MET:HE2	13:5h:267:PHE:HB3	2.03	0.41
13:5h:237:SER:HA	13:5h:320:ARG:HD2	2.02	0.41
13:5h:273:ALA:N	13:5h:375:VAL:O	2.48	0.41
47:6A:809:ALA:C	47:6A:811:PRO:HD2	2.45	0.41
47:6A:1014:GLU:O	47:6A:1018:VAL:HG23	2.21	0.41
47:6A:1787:LYS:O	47:6A:1791:VAL:HG13	2.20	0.41
47:6B:1097:ALA:HB1	47:6B:1101:ARG:NH1	2.35	0.41
47:6B:1787:LYS:O	47:6B:1791:VAL:HG13	2.20	0.41
48:6F:412:ALA:HB3	48:6F:486:ARG:HG3	2.02	0.41
48:6F:966:GLU:HA	48:6F:966:GLU:OE2	2.20	0.41
48:6F:989:LYS:HE3	48:6F:994:GLY:O	2.20	0.41
49:6G:84:SER:HB2	49:6G:416:ARG:HH21	1.84	0.41
49:6H:245:ASP:OD1	49:6H:245:ASP:N	2.50	0.41
49:6I:88:HIS:HB2	49:6I:366:VAL:HG21	2.02	0.41
49:6J:287:ASP:HA	49:6J:337:GLU:HB3	2.02	0.41
50:6K:22:TRP:CH2	50:6K:394:VAL:HG21	2.55	0.41
50:6L:22:TRP:CH2	50:6L:394:VAL:HG21	2.55	0.41
50:6L:88:ILE:HB	50:6L:89:LYS:NZ	2.34	0.41
50:6L:369:ILE:HD12	50:6L:374:ALA:HB2	2.03	0.41
51:6M:1347:LEU:HB3	51:6M:1438:ARG:HA	2.02	0.41
51:6M:1615:PRO:HB2	51:6M:1644:GLY:HA3	2.02	0.41
51:6N:1615:PRO:HB2	51:6N:1644:GLY:HA3	2.02	0.41
51:6N:2183:ALA:HB2	51:6N:2189:ILE:HD13	2.02	0.41
12:6a:170:VAL:CG2	12:6a:201:VAL:HG23	2.50	0.41
13:6b:52:PHE:HZ	13:6b:239:THR:HG21	1.84	0.41
12:6c:67:ASP:O	12:6c:92:PHE:HA	2.20	0.41
12:6c:278:SER:O	12:6c:278:SER:OG	2.37	0.41
13:6d:52:PHE:HZ	13:6d:239:THR:HG21	1.84	0.41
13:6d:174:SER:OG	13:6d:175:PRO:HD2	2.19	0.41
12:6e:16:ILE:HD11	12:6e:229:ILE:CG2	2.50	0.41
13:6f:174:SER:OG	13:6f:175:PRO:HD2	2.19	0.41
12:6g:103:LYS:HG2	12:6g:401:GLU:OE2	2.21	0.41
13:6h:174:SER:OG	13:6h:175:PRO:HD2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7b:237:SER:HA	13:7b:320:ARG:HD2	2.02	0.41
13:7d:33:ASP:OD2	13:7d:35:GLN:NE2	2.53	0.41
13:7f:33:ASP:OD2	13:7f:35:GLN:NE2	2.53	0.41
13:7f:313:MET:HG3	13:7f:381:SER:HA	2.02	0.41
13:7f:371:VAL:HG22	13:7f:373:ARG:H	1.85	0.41
12:7g:68:LEU:HD23	12:7g:143:THR:HB	2.01	0.41
13:7h:203:MET:C	13:7h:204:LEU:HD12	2.45	0.41
12:8a:21:TRP:CD1	12:8a:85:PHE:HE1	2.38	0.41
12:8a:404:ASP:HB3	12:8a:407:GLU:OE1	2.20	0.41
13:8b:203:MET:C	13:8b:204:LEU:HD12	2.45	0.41
12:8c:406:MET:HA	12:8c:409:THR:HG22	2.02	0.41
13:8d:217:LEU:HG	13:8d:277:SER:HB3	2.01	0.41
12:8e:316:LEU:HB2	12:8e:366:THR:CG2	2.50	0.41
13:8f:52:PHE:HZ	13:8f:239:THR:HG21	1.85	0.41
12:9a:6:HIS:NE2	12:9a:136:CYS:SG	2.93	0.41
13:9b:104:ALA:HB2	13:9b:413:MET:HB2	2.01	0.41
13:9b:179:THR:OG1	54:9b:501:GTP:O3'	2.37	0.41
12:9c:208:TYR:CE1	12:9c:225:LEU:HD11	2.56	0.41
12:9e:172:SER:HB2	12:9e:205:GLU:CD	2.45	0.41
13:9f:288:VAL:HG21	13:9f:327:ASP:HB3	2.02	0.41
13:9h:288:VAL:HG21	13:9h:327:ASP:HB3	2.02	0.41
12:Aa:106:TYR:HE1	12:Aa:403:MET:HE1	1.85	0.41
12:Ae:60:VAL:HG12	12:Ae:86:ARG:CZ	2.51	0.41
12:Ae:176:SER:HB2	12:Ae:181:GLU:OE1	2.20	0.41
12:Ae:274:THR:HG22	12:Ae:279:GLN:HG2	2.01	0.41
12:Ag:248:ALA:CB	12:Ag:252:LYS:HD2	2.50	0.41
12:Bc:322:SER:HB3	12:Bc:325:GLU:HB2	2.02	0.41
13:Bd:97:GLU:OE2	12:Be:129:CYS:SG	2.78	0.41
13:Bd:203:MET:C	13:Bd:204:LEU:HD12	2.45	0.41
13:Bf:147:SER:HB2	13:Bf:190:SER:HB3	2.01	0.41
13:Bf:179:THR:OG1	54:Bf:501:GTP:O3'	2.37	0.41
13:Bf:203:MET:C	13:Bf:204:LEU:HD12	2.45	0.41
12:Bg:208:TYR:CE1	12:Bg:225:LEU:HD11	2.56	0.41
12:Ca:68:LEU:HD23	12:Ca:143:THR:HG23	2.02	0.41
13:Cb:33:ASP:OD2	13:Cb:35:GLN:NE2	2.53	0.41
13:Cb:246:GLY:N	13:Cb:249:ASN:OD1	2.43	0.41
13:Cb:404:PHE:N	12:Cc:259:PRO:O	2.35	0.41
13:Cd:147:SER:HB2	13:Cd:190:SER:HB3	2.01	0.41
12:Ce:139:LEU:O	12:Ce:171:PRO:HD3	2.20	0.41
12:Ce:170:VAL:HB	12:Ce:203:ASP:OD1	2.20	0.41
12:Ce:232:VAL:HG22	12:Ce:270:PHE:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Cf:52:PHE:HZ	13:Cf:239:THR:HG21	1.85	0.41
13:Cf:313:MET:HG3	13:Cf:381:SER:HA	2.02	0.41
12:Cg:398:TYR:HB3	12:Cg:403:MET:CE	2.50	0.41
13:Ch:288:VAL:HG21	13:Ch:327:ASP:HB3	2.02	0.41
13:Db:174:SER:OG	13:Db:175:PRO:HD2	2.19	0.41
13:Db:313:MET:HG3	13:Db:381:SER:HA	2.02	0.41
13:Db:371:VAL:HG22	13:Db:373:ARG:H	1.85	0.41
12:Dc:68:LEU:HD23	12:Dc:143:THR:CG2	2.50	0.41
12:Dc:327:ASP:OD2	12:Dc:328:GLU:N	2.52	0.41
13:Dd:174:SER:OG	13:Dd:175:PRO:HD2	2.19	0.41
13:Dd:407:TRP:CE3	12:De:255:VAL:HG22	2.55	0.41
13:Df:174:SER:OG	13:Df:175:PRO:HD2	2.19	0.41
13:Dh:52:PHE:HZ	13:Dh:239:THR:HG21	1.85	0.41
1:0H:122:ILE:HD11	1:0H:152:ILE:HG21	2.01	0.41
1:0J:185:ARG:HD2	1:0J:224:LYS:HB3	2.03	0.41
1:0K:175:CYS:HB2	1:0K:187:ALA:HB2	2.02	0.41
1:0K:185:ARG:HD3	1:0K:224:LYS:CD	2.49	0.41
1:0A:80:VAL:HG22	1:0A:85:LEU:HD22	2.03	0.41
1:0A:236:ILE:HG22	1:0A:243:LEU:HB3	2.03	0.41
1:0A:264:ASP:OD2	1:0A:266:PHE:HD2	2.03	0.41
1:0A:394:ASP:OD2	1:0A:394:ASP:N	2.53	0.41
1:0B:30:ASN:O	1:0B:34:ILE:HG13	2.20	0.41
1:0B:82:ASN:CG	47:6B:123:ALA:HB1	2.46	0.41
1:0B:269:LYS:HB3	1:0B:269:LYS:HE2	1.80	0.41
1:0C:350:ASP:CA	1:0C:353:LYS:HG3	2.47	0.41
1:0D:118:ALA:HB1	1:0D:152:ILE:HG12	2.02	0.41
1:0D:149:LEU:HD23	1:0D:149:LEU:HA	1.92	0.41
1:0D:248:VAL:HG12	1:0D:253:PHE:CZ	2.55	0.41
1:0F:248:VAL:HG12	1:0F:253:PHE:HZ	1.85	0.41
1:0F:287:GLN:HG3	39:4Q:121:TYR:OH	2.19	0.41
1:0G:30:ASN:O	1:0G:34:ILE:HG13	2.20	0.41
1:0L:213:TYR:O	1:0L:216:PRO:HD2	2.20	0.41
1:0P:52:ASP:OD2	1:0P:54:VAL:HB	2.19	0.41
1:0Q:382:THR:O	1:0Q:386:LEU:HG	2.21	0.41
1:0R:28:ALA:O	1:0R:34:ILE:HD11	2.20	0.41
1:0T:56:SER:HA	1:0T:59:GLN:HG2	2.01	0.41
1:0T:167:GLY:C	1:0T:169:VAL:H	2.22	0.41
1:0X:85:LEU:HB3	1:0X:86:PRO:HD3	2.02	0.41
1:0Z:85:LEU:CD1	1:0Z:107:LEU:HD23	2.47	0.41
1:0Z:338:PRO:HA	1:0Z:341:VAL:HG23	2.01	0.41
1:1A:387:GLU:HG3	1:1A:400:CYS:SG	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:28:ALA:HB1	1:1B:67:ARG:HB2	2.03	0.41
1:1B:122:ILE:HG21	1:1B:162:GLN:OE1	2.19	0.41
2:1D:96:SER:HB2	2:1D:137:PHE:CE1	2.55	0.41
2:1D:148:PRO:O	2:1D:152:THR:HG23	2.20	0.41
2:1D:512:CYS:O	6:1N:1991:MET:HB3	2.20	0.41
2:1F:364:GLY:O	2:1F:368:VAL:HG23	2.21	0.41
2:1G:403:SER:O	2:1G:404:THR:OG1	2.32	0.41
3:1H:229:ALA:O	3:1H:233:THR:HG23	2.20	0.41
3:1H:571:ASN:OD1	3:1H:572:TYR:N	2.53	0.41
3:1H:1006:ASP:CB	47:6A:409:ARG:NH1	2.82	0.41
3:1H:1027:ALA:HA	3:1H:1030:ARG:HD2	2.02	0.41
3:1I:812:VAL:HG11	3:1I:822:LEU:HD22	2.01	0.41
3:1I:951:TYR:CZ	3:1I:955:LYS:HD3	2.54	0.41
4:1K:96:PHE:CZ	4:1K:158:VAL:HG23	2.55	0.41
4:1K:293:LEU:HG	4:1K:321:VAL:HG11	2.03	0.41
5:1M:449:ILE:HD12	5:1M:449:ILE:HA	1.91	0.41
5:1M:518:LEU:HG	13:1f:192:HIS:HD2	1.85	0.41
6:1N:400:THR:HG22	8:1P:736:TYR:OH	2.20	0.41
6:1N:588:PRO:HD2	6:1N:639:VAL:CG1	2.51	0.41
6:1N:1808:SER:HA	6:1N:1811:ARG:HD2	2.02	0.41
7:1O:168:TRP:CD1	8:1P:889:SER:HA	2.55	0.41
7:1O:638:ASP:OD1	8:1P:869:LEU:HD13	2.21	0.41
7:1O:2999:CYS:SG	7:1O:3002:TYR:N	2.81	0.41
7:1O:3061:ASP:OD1	7:1O:3061:ASP:N	2.53	0.41
8:1P:734:LEU:HD12	8:1P:736:TYR:CE1	2.55	0.41
8:1P:823:SER:OG	8:1P:824:PRO:HD3	2.20	0.41
10:1S:399:ARG:HG3	10:1S:401:THR:H	1.85	0.41
13:1b:33:ASP:OD2	13:1b:35:GLN:NE2	2.53	0.41
13:1b:288:VAL:HG21	13:1b:327:ASP:HB3	2.02	0.41
12:1c:104:GLY:O	12:1c:147:MET:HG3	2.20	0.41
12:1c:107:THR:OG1	12:1c:108:GLU:N	2.53	0.41
13:1d:33:ASP:OD2	13:1d:35:GLN:NE2	2.53	0.41
13:1d:147:SER:HB2	13:1d:190:SER:HB3	2.01	0.41
12:1e:13:GLY:HA2	12:1e:16:ILE:HG22	2.02	0.41
12:1e:138:SER:OG	53:1e:501:GDP:H5'	2.20	0.41
12:1e:284:LEU:CD2	14:2F:20:ALA:HB2	2.50	0.41
13:1f:104:ALA:HB2	13:1f:413:MET:HB2	2.01	0.41
13:1f:224:TYR:HD2	12:1g:245:GLN:HG2	1.85	0.41
12:1g:271:THR:O	12:1g:364:SER:OG	2.34	0.41
13:1h:33:ASP:OD2	13:1h:35:GLN:NE2	2.53	0.41
13:1h:90:GLU:OE1	13:1h:121:ARG:NE	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1h:174:SER:OG	13:1h:175:PRO:HD2	2.19	0.41
14:2F:103:THR:OG1	14:2F:104:ASN:N	2.51	0.41
14:2F:123:ALA:HB1	14:2F:127:LYS:HE3	2.01	0.41
15:2H:38:UNK:O	12:Dg:279:GLN:OE1	2.38	0.41
24:2T:132:ARG:HB2	24:2T:152:GLU:HG2	2.01	0.41
24:2T:156:LYS:NZ	24:2T:160:ARG:HD2	2.35	0.41
24:2T:208:ARG:HA	24:2T:211:ARG:HE	1.85	0.41
24:2T:208:ARG:HG2	24:2T:211:ARG:NH2	2.35	0.41
13:2b:288:VAL:HG21	13:2b:327:ASP:HB3	2.02	0.41
30:3F:330:ALA:HB1	13:7f:430:LYS:CD	2.44	0.41
30:3F:383:GLN:HG3	13:8f:339:ARG:HD2	2.02	0.41
31:3H:124:ASP:HA	31:3H:127:LEU:HD12	2.02	0.41
32:3J:248:ARG:HG3	32:3J:248:ARG:NH1	2.35	0.41
32:3K:78:PHE:HE2	32:3K:99:LEU:HD22	1.86	0.41
33:3L:157:GLU:HA	33:3L:160:LYS:HD2	2.03	0.41
34:3N:196:LEU:HD12	34:3N:197:ASN:H	1.85	0.41
34:3O:383:ARG:O	34:3O:387:VAL:HG23	2.20	0.41
34:3Q:500:TYR:CZ	34:3Q:504:LEU:HD21	2.55	0.41
34:3R:251:LEU:HB3	34:3W:488:ARG:CZ	2.50	0.41
34:3S:460:ARG:O	34:3S:464:LEU:HG	2.20	0.41
34:3U:40:ASN:O	34:3U:44:LYS:HG3	2.20	0.41
34:3U:100:ILE:HG12	34:3U:338:LEU:HD13	2.01	0.41
34:3V:87:ASN:HB3	34:3Z:37:ASN:OD1	2.20	0.41
34:3W:96:HIS:O	34:3W:100:ILE:HG13	2.20	0.41
34:3W:394:GLU:O	34:3W:398:ARG:HG2	2.20	0.41
34:3X:34:PHE:CZ	34:3X:273:ARG:HD2	2.55	0.41
34:3X:46:ARG:HG2	34:3X:445:TYR:CE2	2.55	0.41
34:3Z:46:ARG:HG2	34:3Z:445:TYR:CE2	2.55	0.41
12:3a:60:VAL:HG21	12:3a:86:ARG:HG2	2.02	0.41
13:3b:237:SER:HA	13:3b:320:ARG:HD2	2.02	0.41
12:3e:68:LEU:HD23	12:3e:143:THR:HG23	2.01	0.41
13:3f:237:SER:HA	13:3f:320:ARG:HD2	2.02	0.41
12:3g:64:ILE:HD13	12:3g:120:VAL:HG22	2.02	0.41
12:3g:170:VAL:CG2	12:3g:201:VAL:HG13	2.50	0.41
34:4A:485:TYR:CD2	34:4A:485:TYR:C	2.98	0.41
34:4B:191:ALA:HB2	34:4B:310:GLU:HG2	2.01	0.41
34:4B:386:HIS:O	34:4B:390:LEU:HD13	2.20	0.41
34:4B:394:GLU:O	34:4B:398:ARG:HG2	2.20	0.41
36:4D:213:TRP:CD1	36:4D:213:TRP:H	2.39	0.41
37:4E:419:TYR:O	37:4E:423:ARG:HG3	2.19	0.41
37:4E:613:THR:O	37:4E:1354:PRO:HD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:775:TRP:CG	37:4E:1642:VAL:HG11	2.55	0.41
37:4F:422:TRP:CD1	37:4F:849:LEU:HD13	2.56	0.41
37:4F:540:VAL:CG1	38:4N:72:ARG:HH12	2.21	0.41
37:4F:613:THR:HB	37:4F:1078:PRO:HG2	2.01	0.41
37:4F:1091:VAL:CG2	37:4F:1138:VAL:N	2.69	0.41
37:4F:1334:GLU:O	37:4F:1709:LEU:HD21	2.21	0.41
37:4G:431:ALA:HA	37:4G:434:TYR:N	2.35	0.41
37:4G:518:LEU:HG	37:4G:678:LEU:HD22	2.02	0.41
37:4G:668:PRO:O	37:4G:671:LEU:HG	2.19	0.41
37:4G:826:LEU:HD13	38:4L:82:TYR:HE1	1.84	0.41
37:4G:1162:VAL:N	37:4G:1299:ARG:HH12	2.14	0.41
37:4G:1525:LEU:HD11	37:4G:1611:ILE:CG2	2.50	0.41
37:4H:408:VAL:O	37:4H:411:THR:OG1	2.36	0.41
37:4H:934:TRP:CE3	37:4H:959:LEU:HB2	2.54	0.41
37:4H:956:ALA:HA	37:4H:957:PRO:HD3	1.94	0.41
37:4H:1092:LEU:HB3	38:4M:36:VAL:HG22	2.01	0.41
37:4H:1323:ILE:C	38:4M:25:PRO:HG2	2.41	0.41
37:4H:1341:ILE:CD1	38:4M:27:ALA:O	2.68	0.41
38:4I:30:ALA:HA	38:4I:33:LYS:HG2	2.01	0.41
38:4N:30:ALA:HA	38:4N:33:LYS:HG2	2.01	0.41
38:4N:38:VAL:CG1	38:4N:41:LYS:HB3	2.50	0.41
39:4S:19:TYR:CZ	43:5K:121:PHE:HB2	2.55	0.41
40:4T:51:VAL:HG23	40:4T:77:VAL:HG21	2.02	0.41
40:4T:731:LYS:HE2	40:4T:731:LYS:HB2	1.88	0.41
40:4U:51:VAL:HG23	40:4U:77:VAL:HG21	2.01	0.41
40:4V:181:LEU:HG	40:4V:382:ARG:NH1	2.35	0.41
13:4b:107:HIS:O	13:4b:112:LYS:NZ	2.41	0.41
13:4f:217:LEU:HG	13:4f:277:SER:HB3	2.01	0.41
13:4f:248:LEU:HD23	13:4f:248:LEU:HA	1.79	0.41
41:5A:121:GLN:HA	43:5L:169:LEU:O	2.17	0.41
42:5H:135:ARG:CA	43:5L:52:LEU:N	2.83	0.41
43:5K:162:VAL:HG13	43:5K:164:GLU:OE2	2.20	0.41
44:5Q:93:PHE:CZ	44:5Q:145:PHE:CD2	3.08	0.41
12:5a:310:TYR:O	12:5a:342:VAL:HG23	2.20	0.41
13:5b:313:MET:HG3	13:5b:381:SER:HA	2.02	0.41
13:5d:203:MET:HE2	13:5d:267:PHE:HB3	2.03	0.41
12:5e:257:LEU:HD23	12:5e:312:THR:HG22	2.02	0.41
13:5f:174:SER:OG	13:5f:175:PRO:HD2	2.19	0.41
13:5f:203:MET:HE2	13:5f:267:PHE:HB3	2.03	0.41
13:5f:237:SER:HA	13:5f:320:ARG:HD2	2.02	0.41
12:5g:104:GLY:O	12:5g:147:MET:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5h:112:LYS:HA	13:5h:112:LYS:HD3	1.86	0.41
47:6A:24:ASP:HB3	47:6A:30:LEU:CD1	2.50	0.41
47:6A:930:GLY:HA2	47:6A:933:ARG:HD2	2.00	0.41
47:6A:1236:LYS:O	51:6M:2365:LEU:HD11	2.20	0.41
47:6B:157:ARG:HH11	47:6B:157:ARG:HD2	1.56	0.41
47:6B:289:GLN:N	3:6D:197:SER:CB	2.83	0.41
47:6B:290:GLY:HA3	3:6D:196:THR:CG2	2.49	0.41
3:6D:809:TRP:HA	3:6D:813:VAL:CG2	2.50	0.41
3:6D:848:ARG:HD3	3:6D:848:ARG:HH11	1.66	0.41
48:6E:61:ARG:O	48:6E:62:THR:HG23	2.20	0.41
49:6G:273:ILE:CG2	49:6G:279:THR:HA	2.49	0.41
49:6G:398:ILE:HA	49:6G:401:VAL:HG12	2.01	0.41
49:6H:398:ILE:HA	49:6H:401:VAL:HG12	2.02	0.41
49:6J:88:HIS:HB2	49:6J:366:VAL:HG21	2.02	0.41
50:6K:369:ILE:HD12	50:6K:374:ALA:HB2	2.03	0.41
50:6L:471:PRO:HA	50:6L:472:PRO:HD3	1.86	0.41
50:6L:536:GLU:HG2	50:6L:540:LYS:HE3	2.01	0.41
51:6M:1437:LEU:HD23	51:6M:1437:LEU:C	2.45	0.41
51:6M:1681:ASP:HB3	51:6M:1683:HIS:HD2	1.84	0.41
51:6M:2174:LEU:HB3	51:6M:2258:LEU:HD11	2.02	0.41
51:6M:2183:ALA:HB2	51:6M:2189:ILE:HD13	2.02	0.41
51:6N:1347:LEU:HB3	51:6N:1438:ARG:HA	2.02	0.41
51:6N:1532:LEU:HD22	51:6N:1983:HIS:HE1	1.85	0.41
51:6N:2014:LEU:HD13	51:6N:2032:TYR:CZ	2.55	0.41
51:6N:2155:VAL:CG1	51:6N:2251:LYS:HD2	2.50	0.41
13:6b:104:ALA:HB2	13:6b:413:MET:HB2	2.01	0.41
13:6b:174:SER:OG	13:6b:175:PRO:HD2	2.19	0.41
13:6b:371:VAL:HG22	13:6b:373:ARG:H	1.85	0.41
12:6e:21:TRP:CD1	12:6e:85:PHE:HE1	2.37	0.41
12:6g:64:ILE:HD13	12:6g:120:VAL:HG22	2.01	0.41
12:6g:252:LYS:HE2	54:6g:501:GTP:O3G	2.20	0.41
13:6h:52:PHE:HZ	13:6h:239:THR:HG21	1.84	0.41
13:7b:313:MET:HG3	13:7b:381:SER:HA	2.02	0.41
12:7c:104:GLY:O	12:7c:147:MET:HG3	2.20	0.41
13:7d:313:MET:HG3	13:7d:381:SER:HA	2.02	0.41
13:7f:104:ALA:HB2	13:7f:413:MET:HB2	2.01	0.41
12:8a:109:GLY:O	12:8a:113:ILE:HB	2.21	0.41
12:8a:174:LYS:NZ	13:8b:336:LYS:HB2	2.35	0.41
13:8b:217:LEU:HG	13:8b:277:SER:HB3	2.01	0.41
13:8b:237:SER:HA	13:8b:320:ARG:HD2	2.02	0.41
12:8c:256:ASN:ND2	12:8c:350:LYS:HE3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8e:257:LEU:HD23	12:8e:312:THR:HG22	2.03	0.41
12:9a:84:ILE:O	12:Aa:281:TYR:CE1	2.72	0.41
13:9b:147:SER:HB2	13:9b:190:SER:HB3	2.01	0.41
13:9b:403:ALA:HB2	12:9c:344:TRP:HZ3	1.85	0.41
13:9d:288:VAL:HG21	13:9d:327:ASP:HB3	2.02	0.41
13:9f:147:SER:HB2	13:9f:190:SER:HB3	2.01	0.41
12:9g:267:MET:HE2	12:9g:371:SER:OG	2.20	0.41
13:9h:313:MET:HG3	13:9h:381:SER:HA	2.02	0.41
13:Ab:144:GLY:N	54:Ab:501:GTP:O2G	2.52	0.41
13:Af:203:MET:C	13:Af:204:LEU:HD12	2.45	0.41
12:Ag:172:SER:HB2	12:Ag:205:GLU:HB2	2.02	0.41
12:Ba:6:HIS:NE2	12:Ba:136:CYS:SG	2.93	0.41
13:Bb:203:MET:C	13:Bb:204:LEU:HD12	2.45	0.41
13:Bb:288:VAL:HG21	13:Bb:327:ASP:HB3	2.02	0.41
12:Bc:139:LEU:HD22	12:Bc:188:SER:HB2	2.02	0.41
13:Bf:33:ASP:OD2	13:Bf:35:GLN:NE2	2.53	0.41
13:Bh:33:ASP:OD2	13:Bh:35:GLN:NE2	2.53	0.41
13:Cb:147:SER:HB2	13:Cb:190:SER:HB3	2.01	0.41
13:Cb:179:THR:OG1	54:Cc:501:GTP:O3'	2.37	0.41
13:Cb:287:SER:O	13:Cb:291:ILE:HG12	2.21	0.41
13:Cd:52:PHE:HZ	13:Cd:239:THR:HG21	1.85	0.41
13:Cd:287:SER:O	13:Cd:291:ILE:HG12	2.21	0.41
12:Ce:86:ARG:HG3	12:Ce:89:ASN:HB2	2.02	0.41
13:Cf:237:SER:HA	13:Cf:320:ARG:HD2	2.02	0.41
13:Cf:287:SER:O	13:Cf:291:ILE:HG12	2.21	0.41
13:Ch:237:SER:HA	13:Ch:320:ARG:HD2	2.01	0.41
12:Da:16:ILE:HD11	12:Da:229:ILE:CG2	2.50	0.41
12:Da:221:THR:HG23	12:Da:223:GLY:N	2.35	0.41
12:Da:244:GLY:HA3	12:Da:354:CYS:HA	2.01	0.41
12:Da:381:VAL:HB	12:Da:415:MET:HE1	2.02	0.41
12:De:73:MET:HE3	12:De:92:PHE:HB3	2.02	0.41
13:Dh:288:VAL:HG21	13:Dh:327:ASP:HB3	2.02	0.41
13:Dh:313:MET:HG3	13:Dh:381:SER:HA	2.02	0.41
1:0H:75:LEU:O	1:0H:79:VAL:HG23	2.20	0.41
1:0J:202:ALA:HB1	1:0J:236:ILE:HG12	2.01	0.41
1:0J:233:LEU:HD13	1:0J:252:ILE:HG13	2.02	0.41
1:0J:315:MET:HA	1:0J:315:MET:CE	2.50	0.41
1:0J:336:ALA:O	1:0J:340:LEU:HD13	2.20	0.41
1:0W:336:ALA:O	1:0W:340:LEU:HG	2.19	0.41
1:0A:245:GLU:O	1:0A:248:VAL:HG22	2.19	0.41
1:0C:47:ARG:CG	1:0C:84:ILE:HG12	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0E:295:VAL:O	1:0E:299:VAL:HG23	2.20	0.41
1:0E:330:SER:O	1:0E:334:GLU:HG2	2.20	0.41
1:0F:80:VAL:HG21	1:0F:117:LEU:HD22	2.02	0.41
1:0L:72:SER:HB2	31:3I:495:LEU:O	2.21	0.41
1:0M:307:GLY:HA2	1:0M:310:ARG:HD3	2.02	0.41
1:0M:380:LEU:CD2	1:0M:407:VAL:HG21	2.50	0.41
1:0N:7:LEU:HD12	10:1R:354:VAL:HB	2.03	0.41
1:0N:98:PHE:CD2	12:Ac:406:MET:HE1	2.55	0.41
1:0N:305:SER:OG	1:0N:310:ARG:HB3	2.20	0.41
1:0O:382:THR:O	1:0O:386:LEU:HG	2.20	0.41
1:0P:365:ARG:HG3	1:0P:406:SER:HB3	2.03	0.41
1:0R:236:ILE:HG22	1:0R:243:LEU:HB3	2.03	0.41
1:0S:12:ARG:O	1:0S:16:GLU:HG2	2.20	0.41
1:0S:95:GLN:NE2	1:0S:99:TYR:CE2	2.89	0.41
1:0S:302:ILE:HG23	1:0S:310:ARG:HE	1.85	0.41
1:0T:47:ARG:CG	1:0T:84:ILE:HG12	2.50	0.41
1:0U:24:VAL:HG11	1:0U:46:LEU:HD21	2.02	0.41
1:0U:257:LEU:HD23	1:0U:257:LEU:HA	1.90	0.41
1:0X:34:ILE:HG21	1:0X:71:TYR:HB3	2.03	0.41
1:0X:157:ALA:HB1	1:0X:198:THR:HG22	2.03	0.41
1:0X:231:CYS:O	1:0X:235:GLN:HG2	2.20	0.41
1:0X:320:ILE:CG2	1:0X:327:LEU:HB3	2.51	0.41
1:0Y:226:LYS:HE3	1:0Y:259:CYS:SG	2.61	0.41
1:0Y:237:ALA:HB2	1:0Y:247:VAL:HG21	2.02	0.41
1:0Z:76:ALA:O	1:0Z:80:VAL:HG23	2.20	0.41
1:0Z:114:SER:HG	1:0Z:116:GLU:CD	2.29	0.41
1:1A:350:ASP:HB2	5:1L:575:ARG:HH21	1.85	0.41
2:1F:347:LEU:O	2:1F:354:THR:HG21	2.21	0.41
2:1G:112:MET:HG2	2:1G:153:GLN:HE22	1.85	0.41
3:1H:951:TYR:CE2	47:6A:388:LEU:HD21	2.55	0.41
3:1H:988:TRP:O	3:1H:991:ILE:HB	2.20	0.41
3:1I:276:ARG:HG3	3:1I:537:ASP:HB2	2.02	0.41
4:1J:96:PHE:CZ	4:1J:158:VAL:HG23	2.55	0.41
6:1N:1784:ASP:HB3	6:1N:1787:PHE:HB3	2.02	0.41
7:1O:2129:PRO:HG2	7:1O:2183:HIS:HB2	2.03	0.41
10:1R:110:PHE:CE1	12:9c:106:TYR:CG	3.09	0.41
10:1R:285:PHE:CE2	32:3J:229:PHE:HB3	2.55	0.41
10:1R:432:THR:HB	12:Aa:83:GLN:HE22	1.85	0.41
12:1a:113:ILE:HD11	12:1a:154:LYS:HG3	2.02	0.41
12:1a:139:LEU:HA	12:1a:145:SER:HB3	2.03	0.41
13:1b:313:MET:HG3	13:1b:381:SER:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1c:68:LEU:HD23	12:1c:143:THR:HB	2.03	0.41
13:1d:104:ALA:HB2	13:1d:413:MET:HB2	2.01	0.41
13:1d:237:SER:HA	13:1d:320:ARG:HD2	2.02	0.41
13:1f:217:LEU:HG	13:1f:277:SER:HB3	2.01	0.41
13:1f:237:SER:HA	13:1f:320:ARG:HD2	2.01	0.41
13:1h:147:SER:HB2	13:1h:190:SER:HB3	2.01	0.41
13:1h:273:ALA:N	13:1h:375:VAL:O	2.48	0.41
14:2G:123:ALA:HB1	14:2G:127:LYS:HE3	2.01	0.41
18:2L:50:UNK:CB	13:5d:364:PRO:HG2	2.51	0.41
22:2P:88:UNK:O	13:5d:96:LYS:HG3	2.20	0.41
12:2a:13:GLY:HA2	12:2a:16:ILE:HG22	2.02	0.41
13:2b:73:THR:HG23	12:2c:2:ARG:NH2	2.36	0.41
13:2b:107:HIS:O	13:2b:112:LYS:NZ	2.41	0.41
13:2d:145:THR:OG1	54:2d:501:GTP:O3B	2.31	0.41
12:2e:99:ASN:HD22	13:2f:258:ASN:ND2	2.14	0.41
13:2f:203:MET:C	13:2f:204:LEU:HD12	2.45	0.41
12:2g:67:ASP:O	12:2g:92:PHE:HA	2.19	0.41
13:2h:313:MET:HG3	13:2h:381:SER:HA	2.02	0.41
29:3E:1166:TRP:HB3	12:5e:421:GLU:OE1	2.21	0.41
30:3F:369:TYR:CE2	31:3I:459:SER:HA	2.56	0.41
30:3F:505:GLU:O	30:3F:509:ILE:HG13	2.21	0.41
32:3J:355:ARG:CZ	12:9a:416:ASN:ND2	2.81	0.41
32:3J:389:LEU:HB3	32:3J:395:VAL:HG13	2.01	0.41
32:3K:118:TYR:HD1	32:3K:139:TYR:HB3	1.83	0.41
34:3M:57:SER:O	34:3M:61:HIS:CD2	2.73	0.41
34:3M:407:MET:O	34:3M:411:MET:HG2	2.21	0.41
34:3N:112:LYS:HA	34:3N:112:LYS:HE3	2.02	0.41
34:3O:252:GLU:OE2	34:3O:252:GLU:N	2.51	0.41
34:3P:111:ILE:HD13	34:3P:383:ARG:HD2	2.02	0.41
34:3P:382:LEU:O	34:3P:382:LEU:HD23	2.20	0.41
34:3P:492:LEU:HD13	34:3S:255:HIS:CG	2.55	0.41
34:3R:251:LEU:HB3	34:3W:488:ARG:NH1	2.35	0.41
34:3R:266:HIS:C	34:3R:268:GLN:H	2.28	0.41
34:3T:258:TYR:CE1	34:3T:477:GLU:HG3	2.55	0.41
34:3T:477:GLU:O	34:3T:481:LEU:HG	2.20	0.41
34:3V:332:GLU:O	34:3V:336:ARG:HG3	2.19	0.41
34:3V:485:TYR:CD2	34:3X:482:LEU:HD13	2.56	0.41
34:3W:330:GLU:O	34:3W:334:LEU:HG	2.20	0.41
34:3X:306:VAL:O	34:3X:310:GLU:HG3	2.20	0.41
34:3Y:264:SER:O	34:3Y:268:GLN:HB2	2.20	0.41
34:3Y:266:HIS:C	34:3Y:268:GLN:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3Z:118:HIS:CD2	34:3Z:357:LEU:HD11	2.55	0.41
12:3a:68:LEU:HD23	12:3a:143:THR:HG23	2.02	0.41
12:3a:172:SER:HB3	12:3a:205:GLU:HG3	2.02	0.41
12:3a:237:THR:CG2	12:3a:240:LEU:HD13	2.49	0.41
13:3b:203:MET:C	13:3b:204:LEU:HD12	2.45	0.41
13:3d:237:SER:HA	13:3d:320:ARG:HD2	2.02	0.41
12:3g:274:THR:CG2	12:3g:279:GLN:HG2	2.50	0.41
13:3h:203:MET:C	13:3h:204:LEU:HD12	2.45	0.41
35:4C:824:VAL:CG2	35:4C:842:ARG:HD2	2.45	0.41
37:4E:515:TYR:CE1	37:4E:536:LEU:HG	2.55	0.41
37:4F:617:VAL:HB	37:4F:1704:GLN:HA	2.02	0.41
37:4F:1083:ILE:CA	38:4N:37:GLY:CA	2.98	0.41
37:4F:1084:ARG:CA	38:4N:37:GLY:CA	2.89	0.41
37:4G:422:TRP:CD1	37:4G:849:LEU:HD13	2.56	0.41
37:4G:512:LEU:H	37:4G:539:GLN:HE21	1.63	0.41
37:4G:534:HIS:CB	37:4G:687:MET:HE1	2.50	0.41
37:4G:958:LEU:HA	37:4G:958:LEU:HD12	1.77	0.41
37:4H:551:GLU:OE2	37:4H:553:LEU:HD23	2.19	0.41
37:4H:974:VAL:CG1	37:4H:975:VAL:HG13	2.50	0.41
37:4H:1144:LEU:HD12	37:4H:1144:LEU:HA	1.15	0.41
38:4K:75:ASN:O	38:4K:77:VAL:N	2.54	0.41
38:4M:38:VAL:CG1	38:4M:41:LYS:HB3	2.50	0.41
38:4O:80:LEU:HD22	38:4P:84:LEU:CD1	2.50	0.41
39:4Q:37:ILE:HA	39:4Q:37:ILE:HD13	1.80	0.41
40:4T:489:ILE:O	40:4T:495:LEU:HD13	2.20	0.41
40:4U:260:GLU:OE1	40:4U:260:GLU:N	2.50	0.41
40:4U:489:ILE:O	40:4U:495:LEU:HD13	2.20	0.41
40:4V:171:HIS:CE1	40:4V:290:PRO:HA	2.55	0.41
40:4V:489:ILE:O	40:4V:495:LEU:HD13	2.20	0.41
40:4V:715:VAL:HG23	40:4V:720:LEU:HG	2.02	0.41
12:4a:52:ASN:HB3	12:4a:60:VAL:HG22	2.02	0.41
13:4d:217:LEU:HG	13:4d:277:SER:HB3	2.01	0.41
12:4e:374:ILE:HD11	12:4e:422:TYR:CZ	2.56	0.41
12:4e:396:HIS:HA	12:4e:399:THR:OG1	2.21	0.41
42:5E:156:GLU:HB3	43:5I:155:ALA:HB3	2.02	0.41
42:5H:94:CYS:HA	42:5H:97:HIS:HB3	2.01	0.41
42:5H:140:TYR:O	43:5L:47:LYS:NZ	2.52	0.41
43:5L:17:SER:O	43:5L:17:SER:OG	2.29	0.41
43:5L:87:ILE:HG12	43:5L:146:TYR:HB2	2.01	0.41
44:5S:33:THR:HG22	44:5S:67:ILE:HD11	2.01	0.41
13:5b:287:SER:O	13:5b:291:ILE:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5b:288:VAL:HG21	13:5b:327:ASP:HB3	2.02	0.41
13:5d:52:PHE:HZ	13:5d:239:THR:HG21	1.85	0.41
13:5d:287:SER:O	13:5d:291:ILE:HG12	2.21	0.41
13:5h:313:MET:HG3	13:5h:381:SER:HA	2.02	0.41
47:6A:591:THR:O	47:6A:822:ASP:HB2	2.19	0.41
47:6A:1561:LEU:HD23	47:6A:1625:VAL:HG23	2.01	0.41
47:6A:1592:LEU:HD13	47:6A:1596:TRP:NE1	2.31	0.41
47:6A:1807:VAL:CG2	47:6A:1897:THR:HG21	2.50	0.41
47:6B:12:GLU:N	47:6B:12:GLU:CD	2.77	0.41
47:6B:204:PHE:CZ	12:Bg:110:ALA:HB2	2.55	0.41
47:6B:1203:ARG:O	47:6B:1207:LEU:HG	2.20	0.41
47:6B:1372:ALA:O	47:6B:1376:LEU:HG	2.20	0.41
47:6B:1807:VAL:CG2	47:6B:1897:THR:HG21	2.50	0.41
3:6D:103:LEU:HD22	3:6D:170:LEU:HD21	2.02	0.41
3:6D:1051:ARG:HD2	3:6D:1055:ARG:NH2	2.36	0.41
48:6E:128:LEU:HB2	48:6E:159:LEU:HD22	2.02	0.41
48:6E:800:LEU:HD21	48:6E:812:LEU:HG	2.02	0.41
48:6F:798:LEU:HD23	49:6J:13:GLU:OE2	2.20	0.41
49:6G:192:PHE:HB2	49:6G:212:ILE:CG1	2.50	0.41
49:6I:88:HIS:CB	49:6I:366:VAL:HG21	2.51	0.41
49:6I:398:ILE:HA	49:6I:401:VAL:HG12	2.02	0.41
49:6J:452:ASN:HA	49:6J:455:LEU:HD12	2.02	0.41
50:6K:436:THR:OG1	50:6K:476:GLY:HA2	2.20	0.41
50:6K:536:GLU:HG2	50:6K:540:LYS:HE3	2.01	0.41
50:6L:594:GLU:HG3	50:6L:596:GLU:HG2	2.02	0.41
51:6M:1467:VAL:HG12	51:6M:1503:TRP:O	2.21	0.41
51:6N:1295:LYS:HE3	51:6N:1295:LYS:HB2	1.89	0.41
51:6N:1437:LEU:HD23	51:6N:1437:LEU:C	2.45	0.41
51:6N:1467:VAL:HG12	51:6N:1503:TRP:O	2.21	0.41
51:6N:1547:TYR:CE1	51:6N:2005:CYS:HB3	2.55	0.41
51:6N:2174:LEU:HB3	51:6N:2258:LEU:HD11	2.02	0.41
51:6N:2278:GLU:OE2	51:6N:2278:GLU:N	2.53	0.41
12:6a:16:ILE:HD11	12:6a:229:ILE:CG2	2.50	0.41
13:6b:246:GLY:N	13:6b:249:ASN:OD1	2.43	0.41
12:6c:68:LEU:HD23	12:6c:143:THR:HB	2.03	0.41
13:6d:237:SER:HA	13:6d:320:ARG:HD2	2.02	0.41
13:6d:287:SER:O	13:6d:291:ILE:HG12	2.21	0.41
13:6d:288:VAL:HG21	13:6d:327:ASP:HB3	2.02	0.41
13:6f:288:VAL:HG21	13:6f:327:ASP:HB3	2.02	0.41
13:6f:406:HIS:CD2	12:6g:261:PRO:HD3	2.55	0.41
13:6h:237:SER:HA	13:6h:320:ARG:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:6h:288:VAL:HG21	13:6h:327:ASP:HB3	2.02	0.41
12:7a:73:MET:CE	12:7a:92:PHE:HB3	2.49	0.41
12:7a:284:LEU:HG	12:7a:363:MET:HE3	2.03	0.41
12:7a:335:ASN:O	12:7a:338:SER:OG	2.33	0.41
13:7b:371:VAL:HG22	13:7b:373:ARG:H	1.85	0.41
13:7d:104:ALA:HB2	13:7d:413:MET:HB2	2.01	0.41
13:7d:237:SER:HA	13:7d:320:ARG:HD2	2.02	0.41
12:8a:131:GLN:OE1	12:8a:250:LEU:HD12	2.21	0.41
13:8d:52:PHE:HZ	13:8d:239:THR:HG21	1.85	0.41
12:8g:104:GLY:O	12:8g:147:MET:HG3	2.20	0.41
13:8h:52:PHE:HZ	13:8h:239:THR:HG21	1.85	0.41
13:8h:104:ALA:HB2	13:8h:413:MET:HB2	2.01	0.41
12:9e:202:LEU:CD1	12:9e:229:ILE:HD12	2.51	0.41
12:9g:238:CYS:SG	12:9g:318:ARG:HD2	2.60	0.41
12:Aa:23:VAL:HA	12:Aa:26:ASP:OD1	2.20	0.41
12:Aa:101:TRP:HD1	12:Aa:145:SER:OG	1.91	0.41
12:Aa:286:VAL:N	12:Aa:287:PRO:HD2	2.35	0.41
12:Aa:374:ILE:HD11	12:Aa:422:TYR:CZ	2.55	0.41
12:Ae:73:MET:CE	12:Ae:92:PHE:HB3	2.50	0.41
12:Ag:284:LEU:HD23	12:Ag:362:LYS:HD3	2.02	0.41
13:Ah:128:ASN:OD1	13:Bh:285:GLN:CD	2.63	0.41
13:Bd:119:LEU:HD11	13:Bd:156:ARG:HB3	2.03	0.41
12:Be:120:VAL:HG11	12:Be:155:ILE:HD11	2.03	0.41
12:Be:275:SER:OG	12:Be:278:SER:OG	2.34	0.41
12:Be:396:HIS:CD2	13:Bf:262:TYR:HA	2.55	0.41
13:Bf:119:LEU:HD11	13:Bf:156:ARG:HB3	2.03	0.41
13:Bf:403:ALA:HB2	12:Bg:344:TRP:HZ3	1.84	0.41
12:Bg:60:VAL:HG21	12:Bg:86:ARG:HB2	2.03	0.41
13:Bh:119:LEU:HD11	13:Bh:156:ARG:HB3	2.03	0.41
12:Ca:321:MET:HE3	12:Ca:321:MET:HB2	1.93	0.41
13:Cb:52:PHE:HZ	13:Cb:239:THR:HG21	1.84	0.41
13:Cd:288:VAL:HG21	13:Cd:327:ASP:HB3	2.02	0.41
13:Cd:371:VAL:HG22	13:Cd:373:ARG:H	1.85	0.41
12:Ce:177:ASP:OD2	13:Cf:248:LEU:HD11	2.20	0.41
12:Ce:329:GLN:O	12:Ce:333:VAL:HG13	2.20	0.41
13:Cf:203:MET:HE2	13:Cf:267:PHE:HB3	2.03	0.41
13:Ch:287:SER:O	13:Ch:291:ILE:HG12	2.21	0.41
13:Ch:313:MET:HG3	13:Ch:381:SER:HA	2.02	0.41
12:Da:13:GLY:HA2	12:Da:16:ILE:HG22	2.02	0.41
12:Da:286:VAL:HB	12:Da:325:GLU:CD	2.46	0.41
12:Da:328:GLU:O	12:Da:331:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Da:394:PHE:CE1	13:Db:261:PRO:HA	2.55	0.41
13:Db:178:SER:OG	12:Dc:347:ASN:ND2	2.53	0.41
13:Db:217:LEU:HG	13:Db:277:SER:HB3	2.01	0.41
12:Dc:378:PHE:HD1	12:Dc:415:MET:HE3	1.84	0.41
13:Df:313:MET:HG3	13:Df:381:SER:HA	2.02	0.41
13:Df:371:VAL:HG22	13:Df:373:ARG:H	1.84	0.41
12:Dg:130:LEU:HB3	12:Dg:162:ARG:HD3	2.01	0.41
12:Dg:248:ALA:CB	12:Dg:252:LYS:HD2	2.50	0.41
13:Dh:203:MET:C	13:Dh:204:LEU:HD12	2.45	0.41
1:0H:43:MET:HG3	1:0H:65:LEU:HD11	2.02	0.41
1:0H:240:SER:HB3	1:0H:243:LEU:HG	2.02	0.41
1:0H:322:ALA:HB2	1:0H:362:GLN:HG2	2.02	0.41
1:0J:233:LEU:HD23	1:0J:233:LEU:HA	1.92	0.41
1:0J:278:VAL:CG2	1:0J:285:LEU:HD23	2.43	0.41
1:0I:17:ARG:HH21	1:0I:54:VAL:HG21	1.85	0.41
1:0I:255:LYS:HD2	1:0I:255:LYS:H	1.84	0.41
1:0I:320:ILE:HB	1:0I:327:LEU:HD13	2.02	0.41
1:0A:73:ASP:OD1	1:0A:113:HIS:HB3	2.21	0.41
1:0A:157:ALA:HB1	1:0A:198:THR:HG22	2.03	0.41
1:0A:164:VAL:O	1:0A:167:GLY:HA2	2.20	0.41
1:0A:231:CYS:O	1:0A:235:GLN:HG2	2.20	0.41
1:0A:382:THR:O	1:0A:386:LEU:HG	2.21	0.41
1:0C:182:SER:HA	1:0C:185:ARG:CD	2.50	0.41
1:0C:182:SER:HA	1:0C:185:ARG:NE	2.35	0.41
1:0C:359:THR:HA	1:0C:362:GLN:OE1	2.21	0.41
1:0E:34:ILE:HG21	1:0E:71:TYR:HB3	2.03	0.41
1:0G:83:GLU:O	1:0G:86:PRO:HD2	2.19	0.41
1:0G:364:GLY:O	1:0G:410:LYS:HG3	2.20	0.41
1:0M:359:THR:HA	1:0M:362:GLN:OE1	2.20	0.41
1:0P:270:HIS:O	1:0P:274:VAL:HG23	2.20	0.41
1:0P:361:GLY:HA2	1:0P:403:ALA:HA	2.02	0.41
1:0Q:34:ILE:HD13	1:0Q:71:TYR:HB2	2.02	0.41
1:0Q:398:THR:O	1:0Q:402:ARG:HG3	2.20	0.41
1:0S:47:ARG:O	1:0S:51:LEU:HD23	2.21	0.41
1:0S:50:LEU:HD12	1:0S:58:GLN:HG3	2.01	0.41
1:0T:85:LEU:CD1	1:0T:107:LEU:HD23	2.48	0.41
1:0U:44:ALA:O	1:0U:48:PRO:HD3	2.20	0.41
1:0U:226:LYS:HE3	1:0U:259:CYS:SG	2.60	0.41
1:0V:28:ALA:O	1:0V:34:ILE:HD11	2.20	0.41
1:0V:97:ARG:NH1	12:2c:410:GLU:CD	2.78	0.41
1:0X:42:ALA:HB2	1:0Y:10:PHE:CZ	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0X:79:VAL:HG13	1:0X:84:ILE:HB	2.01	0.41
1:0X:83:GLU:C	1:0X:86:PRO:HD2	2.46	0.41
1:0X:269:LYS:HE2	1:0X:269:LYS:HB3	1.87	0.41
1:0X:357:ALA:O	1:0X:403:ALA:HB2	2.20	0.41
1:0X:382:THR:O	1:0X:386:LEU:HG	2.21	0.41
1:0Y:95:GLN:NE2	1:0Y:99:TYR:CE2	2.89	0.41
1:1A:119:GLN:HE22	1:1A:162:GLN:HE22	1.68	0.41
1:1A:248:VAL:HG12	1:1A:253:PHE:CZ	2.55	0.41
1:1B:403:ALA:O	1:1B:407:VAL:HG12	2.20	0.41
2:1D:82:LEU:HG	2:1D:118:PRO:O	2.20	0.41
2:1E:397:LYS:HZ2	2:1E:430:SER:HA	1.85	0.41
2:1G:104:VAL:O	2:1G:107:SER:OG	2.34	0.41
3:1H:113:VAL:O	3:1H:116:ILE:HB	2.19	0.41
3:1H:545:SER:HA	3:1H:550:PHE:CD2	2.56	0.41
3:1H:556:ALA:O	3:1H:574:LEU:HD11	2.19	0.41
3:1H:559:CYS:HB2	3:1H:560:PRO:HD3	2.01	0.41
3:1I:880:LEU:HD22	3:1I:972:VAL:HG12	2.02	0.41
4:1J:293:LEU:HG	4:1J:321:VAL:HG11	2.03	0.41
5:1L:83:ALA:HA	5:1L:100:ILE:O	2.20	0.41
5:1M:549:MET:CG	13:1f:163:LYS:HE2	2.51	0.41
6:1N:404:PRO:HA	6:1N:407:VAL:HG22	2.01	0.41
6:1N:554:VAL:HA	6:1N:557:ILE:HD12	2.03	0.41
7:1O:851:LYS:HB3	7:1O:992:THR:HG23	2.03	0.41
7:1O:1593:ILE:O	7:1O:1593:ILE:HG13	2.19	0.41
7:1O:1996:TYR:CD2	7:1O:2019:LEU:HA	2.56	0.41
7:1O:2735:LEU:HD13	7:1O:2740:PRO:HD2	2.03	0.41
10:1R:256:LYS:HG2	32:3J:85:THR:C	2.45	0.41
10:1R:427:TYR:CE2	12:Ba:216:LYS:HB3	2.55	0.41
13:1d:174:SER:OG	13:1d:175:PRO:HD2	2.19	0.41
13:1h:217:LEU:HG	13:1h:277:SER:HB3	2.01	0.41
13:1h:226:ASN:OD1	14:2G:30:ASN:OD1	2.38	0.41
14:2F:41:TRP:HZ3	12:Da:92:PHE:CE1	2.39	0.41
14:2G:103:THR:OG1	14:2G:104:ASN:N	2.51	0.41
24:2U:194:GLN:HA	24:2U:197:THR:HG22	2.02	0.41
24:2V:130:ALA:HB1	12:Dg:335:ASN:CB	2.36	0.41
24:2V:171:LYS:HZ2	13:Df:339:ARG:HG2	1.85	0.41
24:2V:190:TRP:CE3	12:Ce:110:ALA:HB1	2.55	0.41
13:2b:313:MET:HG3	13:2b:381:SER:HA	2.02	0.41
12:2c:67:ASP:O	12:2c:92:PHE:HA	2.19	0.41
12:2e:95:THR:HG23	12:2e:108:GLU:OE1	2.19	0.41
13:2f:107:HIS:O	13:2f:112:LYS:NZ	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2f:288:VAL:HG21	13:2f:327:ASP:HB3	2.02	0.41
13:2h:107:HIS:O	13:2h:112:LYS:NZ	2.41	0.41
31:3H:150:GLU:OE1	31:3H:164:ARG:NH2	2.52	0.41
31:3I:149:VAL:HG12	31:3I:153:GLU:OE2	2.20	0.41
31:3I:166:ARG:O	31:3I:170:THR:HG22	2.21	0.41
31:3I:407:LEU:O	31:3I:411:LYS:HG2	2.20	0.41
32:3K:147:PHE:CE2	32:3K:236:CYS:HB3	2.55	0.41
33:3L:20:ILE:HG23	33:3L:21:TYR:N	2.35	0.41
33:3L:35:ILE:HB	33:3L:57:LEU:HD11	2.02	0.41
34:3M:114:ALA:HB1	34:3M:375:TYR:HE2	1.85	0.41
34:3M:190:ASN:HB3	34:3M:193:LEU:HB3	2.01	0.41
34:3N:38:HIS:HE1	34:3N:452:HIS:CE1	2.24	0.41
34:3O:443:ARG:HD2	34:3R:407:MET:HE1	2.02	0.41
34:3P:500:TYR:CD2	34:3S:471:ARG:HD3	2.56	0.41
34:3Q:60:TYR:CE1	34:3Q:302:LEU:HD11	2.55	0.41
34:3R:250:ARG:O	34:3R:254:MET:HG2	2.21	0.41
34:3R:264:SER:O	34:3R:268:GLN:HB2	2.21	0.41
34:3R:328:MET:CE	34:4B:233:ALA:HB2	2.48	0.41
34:3S:57:SER:O	34:3S:61:HIS:CD2	2.73	0.41
34:3V:349:LEU:HD22	34:3V:382:LEU:HD13	2.02	0.41
34:3W:80:LEU:HD13	34:3Y:44:LYS:HA	2.03	0.41
34:3X:484:GLU:HG2	37:4F:1799:ALA:HB1	2.03	0.41
34:3Y:248:PHE:HB3	34:4A:488:ARG:HD2	2.02	0.41
34:3Z:121:LEU:HD23	34:3Z:357:LEU:CD1	2.36	0.41
34:3Z:342:GLN:O	34:3Z:343:THR:C	2.64	0.41
12:3a:21:TRP:CD1	12:3a:85:PHE:HE1	2.39	0.41
12:3a:73:MET:CE	12:3a:92:PHE:HB3	2.48	0.41
13:3d:147:SER:HB2	13:3d:190:SER:HB3	2.01	0.41
13:3d:203:MET:C	13:3d:204:LEU:HD12	2.45	0.41
13:3f:287:SER:O	13:3f:291:ILE:HG12	2.21	0.41
13:3h:287:SER:O	13:3h:291:ILE:HG12	2.21	0.41
36:4D:283:ASP:OD1	36:4D:285:THR:HG22	2.21	0.41
37:4E:1165:ARG:CZ	37:4E:1182:ARG:HG3	2.49	0.41
37:4E:1704:GLN:HG3	37:4E:1773:PRO:HA	2.01	0.41
37:4F:972:PHE:CE2	38:4N:44:LEU:CD1	3.03	0.41
37:4F:1082:LEU:HB2	38:4N:38:VAL:HG12	2.00	0.41
37:4F:1162:VAL:HB	37:4F:1299:ARG:HH12	1.85	0.41
37:4G:820:ARG:HB3	37:4G:870:THR:CG2	2.50	0.41
37:4G:1082:LEU:CA	38:4L:39:HIS:HB2	2.46	0.41
37:4G:1136:ARG:CG	38:4L:33:LYS:HZ1	2.32	0.41
37:4G:1334:GLU:HG3	37:4G:1340:PRO:HB3	1.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:952:ASP:O	37:4H:955:GLY:N	2.53	0.41
37:4H:954:SER:O	38:4M:48:PRO:HB3	2.21	0.41
37:4H:1084:ARG:CA	38:4M:38:VAL:HG23	2.50	0.41
37:4H:1313:VAL:O	37:4H:1323:ILE:C	2.64	0.41
37:4H:1344:SER:OG	37:4H:1346:ALA:O	2.37	0.41
37:4H:1378:LEU:HD13	37:4H:1399:LEU:CD1	2.51	0.41
38:4I:45:ALA:O	38:4I:47:ALA:N	2.53	0.41
38:4J:25:PRO:HG2	42:5F:93:GLU:HA	2.01	0.41
38:4K:45:ALA:O	38:4K:47:ALA:N	2.53	0.41
38:4L:38:VAL:O	38:4L:38:VAL:CG1	2.62	0.41
38:4M:45:ALA:O	38:4M:47:ALA:N	2.53	0.41
39:4R:37:ILE:HG23	39:4R:37:ILE:HD12	1.85	0.41
40:4T:76:ARG:HG2	40:4T:403:TYR:OH	2.20	0.41
41:4Y:165:SER:HA	43:5J:155:ALA:HA	2.01	0.41
12:4a:171:PRO:HA	12:4a:181:GLU:OE2	2.20	0.41
13:4b:203:MET:C	13:4b:204:LEU:HD12	2.45	0.41
12:4c:5:VAL:HG23	12:4c:130:LEU:HD11	2.02	0.41
42:5H:130:ALA:C	43:5L:53:ASP:CG	2.88	0.41
43:5J:17:SER:C	43:5J:18:ILE:HG13	2.38	0.41
43:5K:47:LYS:O	43:5K:48:THR:C	2.61	0.41
43:5K:70:ASP:OD1	43:5K:70:ASP:N	2.51	0.41
13:5b:203:MET:HE2	13:5b:267:PHE:HB3	2.03	0.41
12:5c:189:VAL:HG21	12:5c:378:PHE:CE1	2.55	0.41
13:5d:237:SER:HA	13:5d:320:ARG:HD2	2.02	0.41
12:5e:13:GLY:HA2	12:5e:16:ILE:HG22	2.02	0.41
12:5e:170:VAL:HG21	12:5e:201:VAL:HG13	2.02	0.41
12:5g:86:ARG:HG3	12:5g:86:ARG:HH11	1.85	0.41
13:5h:287:SER:O	13:5h:291:ILE:HG12	2.21	0.41
13:5h:317:LEU:HB3	13:5h:319:TYR:CE1	2.53	0.41
47:6A:6:ARG:NH1	47:6A:6:ARG:O	2.54	0.41
47:6A:75:ASP:HB3	47:6A:78:VAL:H	1.85	0.41
47:6A:251:LEU:HD23	47:6A:251:LEU:HA	1.84	0.41
47:6A:1244:LEU:CD1	51:6M:2361:ALA:HB2	2.51	0.41
47:6B:24:ASP:HB3	47:6B:30:LEU:CD1	2.50	0.41
3:6D:65:SER:HB3	3:6D:80:LEU:HD21	2.02	0.41
3:6D:554:ILE:HG21	3:6D:554:ILE:HD13	1.81	0.41
3:6D:872:LYS:HA	3:6D:872:LYS:HD3	1.93	0.41
48:6E:412:ALA:HB3	48:6E:486:ARG:HG3	2.02	0.41
48:6F:128:LEU:HB2	48:6F:159:LEU:HD22	2.02	0.41
48:6F:609:TRP:CZ3	48:6F:646:TYR:HD1	2.38	0.41
49:6G:134:GLN:NE2	49:6G:138:ASP:OD2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6H:71:ARG:NH1	49:6J:30:GLU:HB3	2.35	0.41
49:6J:88:HIS:CB	49:6J:366:VAL:HG21	2.51	0.41
49:6J:203:ASN:CB	49:6J:258:ASN:HA	2.29	0.41
49:6J:269:VAL:CG2	49:6J:284:ILE:HD13	2.42	0.41
49:6J:398:ILE:HA	49:6J:401:VAL:HG12	2.02	0.41
51:6M:1895:PRO:HA	51:6M:1896:PRO:HD3	1.97	0.41
51:6M:1919:ALA:HA	51:6M:1922:TRP:CZ2	2.55	0.41
51:6M:2155:VAL:CG1	51:6M:2251:LYS:HD2	2.50	0.41
13:6b:119:LEU:HD11	13:6b:156:ARG:HB3	2.03	0.41
13:6d:246:GLY:N	13:6d:249:ASN:OD1	2.43	0.41
13:6d:407:TRP:NE1	12:6e:258:ILE:O	2.53	0.41
13:6f:237:SER:HA	13:6f:320:ARG:HD2	2.02	0.41
13:6f:287:SER:O	13:6f:291:ILE:HG12	2.21	0.41
12:8a:253:LEU:HD23	12:8a:314:SER:OG	2.20	0.41
13:8b:287:SER:O	13:8b:291:ILE:HG12	2.21	0.41
12:8c:5:VAL:HG23	12:8c:130:LEU:HD11	2.01	0.41
12:8c:75:SER:HA	12:8c:78:SER:OG	2.21	0.41
12:8g:185:ALA:O	12:8g:189:VAL:HG13	2.20	0.41
13:8h:203:MET:HE2	13:8h:267:PHE:HB3	2.03	0.41
12:9a:6:HIS:HE2	12:9a:136:CYS:HG	1.68	0.41
13:9b:112:LYS:HA	13:9b:112:LYS:HD3	1.86	0.41
13:9f:145:THR:OG1	54:9f:501:GTP:O3B	2.31	0.41
12:9g:161:ASP:OD1	12:9g:162:ARG:HG2	2.21	0.41
12:Aa:73:MET:CE	12:Aa:92:PHE:HB3	2.49	0.41
13:Ad:203:MET:C	13:Ad:204:LEU:HD12	2.45	0.41
12:Ae:11:GLN:HG3	13:Af:249:ASN:HB2	2.02	0.41
13:Bb:119:LEU:HD11	13:Bb:156:ARG:HB3	2.03	0.41
12:Be:58:ARG:NE	12:Ce:281:TYR:CE1	2.88	0.41
13:Bh:237:SER:HA	13:Bh:320:ARG:HD2	2.02	0.41
13:Cb:11:GLN:HE22	12:Cc:247:ASN:H	1.68	0.41
13:Cb:119:LEU:HD11	13:Cb:156:ARG:HB3	2.03	0.41
13:Cb:203:MET:HE2	13:Cb:267:PHE:HB3	2.03	0.41
13:Cb:237:SER:HA	13:Cb:320:ARG:HD2	2.02	0.41
13:Cb:288:VAL:HG21	13:Cb:327:ASP:HB3	2.02	0.41
12:Cc:64:ILE:HD13	12:Cc:120:VAL:HG22	2.01	0.41
13:Cd:33:ASP:OD2	13:Cd:35:GLN:NE2	2.53	0.41
13:Cd:203:MET:HE2	13:Cd:267:PHE:HB3	2.03	0.41
13:Cd:237:SER:HA	13:Cd:320:ARG:HD2	2.01	0.41
13:Cf:33:ASP:OD2	13:Cf:35:GLN:NE2	2.53	0.41
13:Cf:288:VAL:HG21	13:Cf:327:ASP:HB3	2.02	0.41
13:Cf:371:VAL:HG22	13:Cf:373:ARG:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Da:128:ASP:OD1	12:Da:129:CYS:N	2.53	0.41
13:Db:248:LEU:HA	13:Db:248:LEU:HD23	1.79	0.41
13:Db:288:VAL:HG21	13:Db:327:ASP:HB3	2.02	0.41
13:Dd:288:VAL:HG21	13:Dd:327:ASP:HB3	2.02	0.41
13:Dd:371:VAL:HG22	13:Dd:373:ARG:H	1.85	0.41
13:Df:288:VAL:HG21	13:Df:327:ASP:HB3	2.02	0.41
13:Dh:33:ASP:OD2	13:Dh:35:GLN:NE2	2.53	0.41
1:0H:365:ARG:HG3	1:0H:406:SER:HB3	2.03	0.41
1:0I:127:LEU:HD11	1:0I:149:LEU:CD2	2.45	0.41
1:0I:398:THR:O	1:0I:402:ARG:HG3	2.20	0.41
1:0K:235:GLN:HA	1:0K:238:LYS:HD3	2.02	0.41
1:0K:414:LEU:HD11	1:0K:438:GLY:C	2.45	0.41
44:5P:93:PHE:CZ	44:5P:145:PHE:HD2	2.38	0.41
1:0A:34:ILE:HG21	1:0A:71:TYR:HB3	2.03	0.41
1:0A:76:ALA:HB1	1:0A:110:VAL:HG22	2.03	0.41
1:0A:94:GLU:OE1	1:0A:99:TYR:CE2	2.73	0.41
1:0A:299:VAL:HG21	1:0A:334:GLU:HB3	2.01	0.41
1:0B:24:VAL:HG11	1:0B:46:LEU:HD21	2.02	0.41
1:0D:176:VAL:HG11	1:0D:213:TYR:HB3	2.03	0.41
1:0F:37:LEU:HB3	1:0F:42:ALA:HB3	2.02	0.41
1:0L:382:THR:O	1:0L:386:LEU:HG	2.20	0.41
1:0L:423:ARG:HD2	1:0L:423:ARG:HA	1.86	0.41
1:0O:83:GLU:O	1:0O:86:PRO:HD2	2.21	0.41
1:0P:85:LEU:CD1	1:0P:107:LEU:HD23	2.47	0.41
1:0P:122:ILE:HD11	1:0P:152:ILE:HG21	2.01	0.41
1:0R:76:ALA:HB1	1:0R:110:VAL:HG22	2.02	0.41
1:0V:47:ARG:CG	1:0V:84:ILE:HG12	2.50	0.41
1:0Z:359:THR:HA	1:0Z:362:GLN:OE1	2.21	0.41
1:1B:127:LEU:HD11	1:1B:162:GLN:OE1	2.20	0.41
1:1B:215:ALA:HB3	1:1B:216:PRO:HD3	2.02	0.41
1:1B:358:TRP:CD1	1:1B:362:GLN:HE22	2.39	0.41
1:1C:134:LEU:HG	1:1C:145:SER:OG	2.21	0.41
1:1C:396:LEU:HD23	1:1C:396:LEU:HA	1.76	0.41
2:1G:400:THR:HA	2:1G:403:SER:OG	2.21	0.41
3:1H:511:LEU:HB3	3:1H:524:ARG:HD3	2.03	0.41
3:1H:951:TYR:HE2	47:6A:388:LEU:HD21	1.85	0.41
3:1I:229:ALA:O	3:1I:233:THR:HG23	2.20	0.41
3:1I:987:VAL:O	3:1I:991:ILE:HG13	2.20	0.41
4:1K:295:GLN:O	4:1K:324:LYS:HD2	2.20	0.41
5:1L:501:ASP:O	5:1L:505:MET:HG2	2.21	0.41
5:1L:606:TRP:O	5:1L:606:TRP:CG	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1M:501:ASP:O	5:1M:505:MET:HG2	2.21	0.41
5:1M:606:TRP:O	5:1M:606:TRP:CG	2.73	0.41
7:1O:2468:TRP:C	7:1O:2470:PRO:HD3	2.46	0.41
7:1O:2893:HIS:HA	8:1P:779:SER:HG	1.80	0.41
8:1P:923:LEU:HD12	8:1P:923:LEU:H	1.85	0.41
9:1Q:726:LEU:O	9:1Q:727:LEU:O	2.39	0.41
10:1R:344:SER:O	10:1R:348:ARG:HB2	2.20	0.41
10:1S:70:LEU:CD2	10:1S:75:LEU:HD23	2.51	0.41
12:1a:72:THR:O	12:1a:75:SER:OG	2.32	0.41
13:1b:104:ALA:HB2	13:1b:413:MET:HB2	2.01	0.41
12:1c:317:PHE:HB3	12:1c:321:MET:CE	2.46	0.41
13:1d:203:MET:C	13:1d:204:LEU:HD12	2.45	0.41
12:1e:229:ILE:O	12:1e:233:MET:HG3	2.21	0.41
13:1f:287:SER:O	13:1f:291:ILE:HG12	2.21	0.41
12:1g:21:TRP:CE3	12:1g:61:PRO:HB3	2.55	0.41
13:1h:104:ALA:HB2	13:1h:413:MET:HB2	2.01	0.41
13:1h:203:MET:C	13:1h:204:LEU:HD12	2.45	0.41
14:2F:113:VAL:HG23	14:2F:113:VAL:O	2.20	0.41
18:2L:10:UNK:O	18:2L:11:UNK:C	2.68	0.41
20:2N:31:UNK:HA	13:5f:57:GLY:N	2.36	0.41
21:2O:5:UNK:O	21:2O:6:UNK:C	2.69	0.41
24:2V:141:ARG:CZ	13:Df:297:GLU:HG3	2.50	0.41
24:2V:147:ALA:HB2	13:Df:299:ALA:HA	2.02	0.41
12:2c:66:MET:SD	12:2c:147:MET:HE2	2.61	0.41
28:3C:525:ALA:HA	13:4h:309:HIS:HD2	1.86	0.41
31:3I:153:GLU:HA	31:3I:156:ARG:NE	2.36	0.41
32:3J:116:TYR:CE2	32:3J:173:PRO:HG2	2.56	0.41
34:3N:49:PHE:O	34:3N:53:ILE:HG13	2.20	0.41
34:3O:253:ALA:HB3	34:3O:254:MET:HE2	2.01	0.41
34:3O:291:LEU:HA	34:3O:441:LEU:HD13	2.03	0.41
34:3R:44:LYS:HA	34:4B:80:LEU:HD13	2.03	0.41
34:3R:269:GLY:HA3	34:3R:463:HIS:ND1	2.34	0.41
34:3T:63:SER:HB3	34:3T:187:VAL:HG11	2.03	0.41
34:3T:345:ALA:HA	34:3T:348:LYS:CE	2.49	0.41
34:3T:416:SER:OG	34:3T:417:SER:N	2.52	0.41
34:3V:44:LYS:HZ1	34:3Z:84:GLU:HG2	1.83	0.41
34:3X:362:PRO:HG2	34:3X:368:LEU:HD23	2.02	0.41
13:3b:90:GLU:OE1	13:3b:121:ARG:NE	2.44	0.41
13:3b:248:LEU:HA	13:3b:248:LEU:HD23	1.79	0.41
13:3b:287:SER:O	13:3b:291:ILE:HG12	2.21	0.41
12:3c:68:LEU:HD23	12:3c:143:THR:CG2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3e:60:VAL:HG11	12:3e:86:ARG:CZ	2.51	0.41
13:3f:334:THR:HA	13:3f:337:THR:HG22	2.03	0.41
13:3h:147:SER:HB2	13:3h:190:SER:HB3	2.01	0.41
13:3h:427:ALA:HB2	39:4Q:206:MET:SD	2.61	0.41
34:4A:244:ARG:CG	34:4A:246:SER:HB3	2.44	0.41
35:4C:703:VAL:HG23	35:4C:718:LEU:O	2.21	0.41
37:4E:422:TRP:O	37:4E:426:VAL:HG12	2.20	0.41
37:4E:740:LEU:HG	37:4E:745:ILE:HD11	2.02	0.41
37:4E:1296:VAL:HB	37:4E:1759:MET:HE2	2.03	0.41
37:4E:1347:GLY:HA2	37:4E:1360:TRP:O	2.21	0.41
37:4E:1772:LEU:HA	37:4E:1773:PRO:HD3	1.85	0.41
37:4F:789:ALA:HA	37:4F:792:VAL:HG22	2.02	0.41
37:4F:944:LYS:HD3	37:4F:944:LYS:HA	1.87	0.41
37:4F:952:ASP:C	37:4F:954:SER:H	2.28	0.41
37:4F:1341:ILE:N	38:4N:31:ALA:N	2.68	0.41
37:4G:585:VAL:HG13	37:4G:586:PHE:N	2.35	0.41
37:4G:1328:ASP:OD2	37:4G:1329:GLY:N	2.54	0.41
37:4H:506:MET:HG2	37:4H:507:PRO:O	2.21	0.41
37:4H:565:ALA:HA	37:4H:674:HIS:HB2	2.02	0.41
37:4H:826:LEU:CD1	38:4M:82:TYR:HE1	2.31	0.41
38:4J:75:ASN:O	38:4J:77:VAL:N	2.54	0.41
38:4L:75:ASN:O	38:4L:77:VAL:N	2.54	0.41
38:4O:14:VAL:O	38:4O:17:LEU:HB2	2.20	0.41
39:4S:22:LYS:CD	43:5K:105:LEU:HD13	2.51	0.41
39:4S:37:ILE:HA	39:4S:37:ILE:HD13	1.81	0.41
39:4S:68:ARG:HB3	44:5R:41:ARG:NH1	2.36	0.41
40:4T:171:HIS:CE1	40:4T:290:PRO:HA	2.55	0.41
40:4T:181:LEU:HG	40:4T:382:ARG:NH1	2.35	0.41
40:4T:715:VAL:HG23	40:4T:720:LEU:HG	2.02	0.41
40:4U:715:VAL:HG23	40:4U:720:LEU:HG	2.02	0.41
40:4V:196:ALA:HB2	40:4V:382:ARG:HH12	1.85	0.41
12:4a:326:VAL:O	12:4a:330:MET:HG2	2.20	0.41
13:4b:104:ALA:HB2	13:4b:413:MET:HB2	2.01	0.41
13:4d:104:ALA:HB2	13:4d:413:MET:HB2	2.01	0.41
13:4d:203:MET:C	13:4d:204:LEU:HD12	2.45	0.41
12:4e:54:ALA:HB2	12:4e:86:ARG:HH22	1.84	0.41
13:4f:178:SER:OG	12:4g:347:ASN:ND2	2.53	0.41
42:5H:70:ARG:NH2	42:5H:114:THR:OG1	2.53	0.41
42:5H:135:ARG:O	43:5L:52:LEU:CB	2.68	0.41
42:5H:137:TYR:CE1	43:5L:46:PRO:HD2	2.56	0.41
43:5K:90:GLN:CD	43:5K:147:THR:HG1	2.25	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5L:16:GLU:HA	43:5L:18:ILE:H	1.86	0.41
44:5U:62:ASP:OD2	44:5U:63:GLY:N	2.53	0.41
44:5U:94:LYS:HA	44:5U:97:ASP:OD1	2.21	0.41
46:5Z:115:VAL:HG22	46:5Z:131:MET:SD	2.61	0.41
12:5a:176:SER:HB2	12:5a:181:GLU:OE1	2.21	0.41
13:5b:237:SER:HA	13:5b:320:ARG:HD2	2.01	0.41
13:5f:119:LEU:HD11	13:5f:156:ARG:HB3	2.03	0.41
13:5f:287:SER:O	13:5f:291:ILE:HG12	2.21	0.41
47:6A:395:VAL:HG22	48:6F:348:ASP:OD1	2.21	0.41
47:6A:1164:LEU:HD13	47:6A:1309:HIS:HB3	2.03	0.41
47:6A:1203:ARG:O	47:6A:1207:LEU:HG	2.20	0.41
47:6B:6:ARG:NH1	47:6B:6:ARG:O	2.54	0.41
47:6B:75:ASP:HB3	47:6B:78:VAL:H	1.85	0.41
47:6B:591:THR:O	47:6B:822:ASP:HB2	2.19	0.41
47:6B:1164:LEU:HD13	47:6B:1309:HIS:HB3	2.03	0.41
47:6B:1244:LEU:CD1	51:6N:2361:ALA:HB2	2.51	0.41
47:6B:1832:VAL:O	47:6B:1836:VAL:HG23	2.20	0.41
3:6D:813:VAL:HG22	3:6D:853:LEU:CD2	2.51	0.41
3:6D:858:ARG:O	3:6D:861:PRO:HD2	2.20	0.41
3:6D:1010:LEU:HA	3:6D:1010:LEU:HD13	1.00	0.41
3:6D:1011:GLU:H	3:6D:1011:GLU:HG3	1.52	0.41
48:6F:61:ARG:O	48:6F:62:THR:HG23	2.20	0.41
48:6F:577:CYS:HB3	48:6F:582:LEU:HB2	2.02	0.41
49:6H:43:THR:HA	49:6H:44:PRO:HD3	1.92	0.41
49:6H:192:PHE:HB2	49:6H:212:ILE:CG1	2.50	0.41
49:6I:452:ASN:HA	49:6I:455:LEU:HD12	2.02	0.41
49:6J:136:MET:HE3	49:6J:136:MET:HB3	1.80	0.41
50:6K:520:GLU:O	50:6K:524:MET:HG2	2.20	0.41
50:6L:498:ASP:OD2	50:6L:505:ASN:ND2	2.51	0.41
50:6L:520:GLU:O	50:6L:524:MET:HG2	2.20	0.41
51:6M:1547:TYR:CE1	51:6M:2005:CYS:HB3	2.55	0.41
12:6a:185:ALA:O	12:6a:189:VAL:HG23	2.21	0.41
12:6a:344:TRP:CZ3	12:6a:345:ILE:HD11	2.56	0.41
13:6b:313:MET:HG3	13:6b:381:SER:HA	2.02	0.41
12:6c:252:LYS:HE2	54:6c:501:GTP:O3G	2.20	0.41
13:6f:371:VAL:HG22	13:6f:373:ARG:H	1.85	0.41
13:6h:287:SER:O	13:6h:291:ILE:HG12	2.21	0.41
12:7a:207:LEU:O	12:7a:210:ILE:HG12	2.20	0.41
12:7c:397:TRP:CD2	13:7d:257:THR:CG2	2.95	0.41
12:7e:344:TRP:CE3	12:7e:345:ILE:HG13	2.55	0.41
13:7f:237:SER:HA	13:7f:320:ARG:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8a:73:MET:HA	12:8a:76:VAL:CG2	2.50	0.41
13:8b:203:MET:HE2	13:8b:267:PHE:HB3	2.03	0.41
13:8d:246:GLY:N	13:8d:249:ASN:OD1	2.43	0.41
12:8e:213:ARG:HD2	12:8e:297:LYS:HD2	2.02	0.41
13:8f:203:MET:HE2	13:8f:267:PHE:HB3	2.03	0.41
13:8f:371:VAL:HG22	13:8f:373:ARG:H	1.85	0.41
12:9c:100:ASN:HB3	12:9c:103:LYS:HB2	2.03	0.41
13:9f:203:MET:C	13:9f:204:LEU:HD12	2.45	0.41
12:Aa:326:VAL:O	12:Aa:330:MET:HG2	2.21	0.41
13:Ad:52:PHE:HZ	13:Ad:239:THR:HG21	1.84	0.41
12:Ag:21:TRP:CD1	12:Ag:85:PHE:HE1	2.38	0.41
13:Ah:52:PHE:HZ	13:Ah:239:THR:HG21	1.85	0.41
12:Ba:113:ILE:HD13	12:Ba:150:LEU:HG	2.02	0.41
13:Bb:237:SER:HA	13:Bb:320:ARG:HD2	2.02	0.41
12:Bc:52:ASN:HD22	12:Bc:86:ARG:HH21	1.68	0.41
13:Bd:33:ASP:OD2	13:Bd:35:GLN:NE2	2.53	0.41
12:Be:322:SER:OG	12:Be:325:GLU:HB2	2.21	0.41
13:Bf:288:VAL:HG21	13:Bf:327:ASP:HB3	2.02	0.41
12:Ca:170:VAL:CG2	12:Ca:201:VAL:HG13	2.49	0.41
12:Cc:343:GLU:OE2	12:Cc:428:ALA:O	2.38	0.41
12:Ce:16:ILE:HD11	12:Ce:229:ILE:CG2	2.50	0.41
13:Cf:119:LEU:HD11	13:Cf:156:ARG:HB3	2.03	0.41
13:Ch:203:MET:HE2	13:Ch:267:PHE:HB3	2.03	0.41
13:Dd:203:MET:C	13:Dd:204:LEU:HD12	2.45	0.41
13:Df:203:MET:C	13:Df:204:LEU:HD12	2.45	0.41
12:Dg:304:ASP:HA	12:Dg:305:PRO:HD3	1.94	0.41
1:0H:29:LYS:HD2	1:0H:29:LYS:HA	1.92	0.41
1:0H:361:GLY:HA2	1:0H:403:ALA:HA	2.03	0.41
1:0W:320:ILE:HD11	1:0W:331:VAL:CG1	2.51	0.41
1:0K:329:LEU:HA	1:0K:370:HIS:NE2	2.36	0.41
1:0A:42:ALA:HB2	1:0B:10:PHE:CZ	2.50	0.41
1:0C:17:ARG:HH12	1:0D:45:LEU:HD22	1.86	0.41
1:0C:328:ALA:O	1:0C:331:VAL:HG12	2.20	0.41
1:0C:371:ALA:HB1	1:0C:407:VAL:HG13	2.03	0.41
1:0C:382:THR:O	1:0C:386:LEU:HG	2.21	0.41
1:0D:169:VAL:H	1:0D:170:PRO:HD2	1.86	0.41
1:0D:417:LEU:HD23	1:0D:417:LEU:HA	1.92	0.41
1:0E:265:GLU:HA	1:0E:268:LYS:HE2	2.03	0.41
1:0E:282:THR:HB	1:0E:285:LEU:HD22	2.02	0.41
1:0E:379:CYS:O	1:0E:382:THR:OG1	2.35	0.41
1:0G:28:ALA:HB1	1:0G:67:ARG:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0G:302:ILE:HA	1:0G:310:ARG:HB2	2.01	0.41
1:0L:86:PRO:O	1:0L:89:VAL:HG12	2.21	0.41
1:0L:143:GLU:HG3	1:0L:186:ILE:HG13	2.01	0.41
1:0M:85:LEU:O	1:0M:89:VAL:HG13	2.21	0.41
1:0M:338:PRO:HB2	1:0M:339:PRO:HD3	2.01	0.41
1:0O:290:VAL:HG22	1:0O:295:VAL:HG21	2.02	0.41
1:0P:43:MET:HG3	1:0P:65:LEU:HD11	2.02	0.41
1:0Q:379:CYS:O	1:0Q:383:LEU:HG	2.21	0.41
1:0R:147:TRP:NE1	1:0R:186:ILE:HD12	2.36	0.41
1:0R:279:ALA:O	1:0R:323:PHE:CZ	2.73	0.41
1:0R:342:SER:HA	1:0R:345:ASN:ND2	2.36	0.41
1:0S:398:THR:O	1:0S:402:ARG:HG3	2.21	0.41
1:0U:108:ARG:HH22	1:0U:144:ALA:HB1	1.85	0.41
1:0X:76:ALA:HB1	1:0X:110:VAL:HG22	2.03	0.41
1:0Y:72:SER:HB2	1:0Y:75:LEU:HG	2.02	0.41
1:0Z:231:CYS:O	1:0Z:235:GLN:HG2	2.20	0.41
1:1A:185:ARG:HG3	5:1L:588:ARG:HH11	1.86	0.41
1:1A:332:ILE:HD13	1:1A:337:LEU:HD13	2.01	0.41
2:1F:60:ASP:O	2:1F:62:LEU:N	2.35	0.41
2:1F:315:CYS:SG	2:1F:354:THR:HG23	2.60	0.41
4:1J:295:GLN:O	4:1J:324:LYS:HD2	2.20	0.41
4:1K:248:GLU:OE2	3:6D:927:SER:N	2.49	0.41
5:1L:449:ILE:HD12	5:1L:449:ILE:HA	1.91	0.41
6:1N:1425:ASP:OD1	6:1N:1425:ASP:N	2.54	0.41
6:1N:2494:GLU:HA	6:1N:2725:LEU:CD2	2.50	0.41
6:1N:2671:LYS:HB3	6:1N:2675:GLN:HB2	2.03	0.41
6:1N:2675:GLN:OE1	6:1N:2678:LEU:HD12	2.20	0.41
6:1N:2684:VAL:O	6:1N:2687:LEU:HG	2.20	0.41
7:1O:1631:ARG:NH1	8:1P:811:ASP:O	2.54	0.41
7:1O:2719:MET:HE1	7:1O:3040:TRP:HB3	2.03	0.41
10:1R:343:PRO:O	10:1R:344:SER:OG	2.34	0.41
10:1R:426:TRP:NE1	12:Aa:77:ARG:NH2	2.66	0.41
12:1a:377:MET:HE2	12:1a:377:MET:HB2	1.59	0.41
13:1b:237:SER:HA	13:1b:320:ARG:HD2	2.02	0.41
12:1c:165:LEU:HD11	12:1c:200:MET:HE2	2.02	0.41
13:1d:313:MET:HG3	13:1d:381:SER:HA	2.02	0.41
12:1e:103:LYS:HG2	12:1e:401:GLU:OE2	2.21	0.41
14:2G:41:TRP:HE1	12:De:74:ASP:HB2	1.85	0.41
14:2G:90:HIS:CE1	12:Ce:274:THR:HB	2.55	0.41
17:2K:58:UNK:O	13:Bf:81:GLY:HA2	2.19	0.41
24:2T:167:PHE:O	24:2T:171:LYS:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2U:124:ALA:CB	24:2U:158:VAL:HG11	2.51	0.41
12:2a:271:THR:OG1	12:2a:365:ALA:HB3	2.21	0.41
13:2b:203:MET:C	13:2b:204:LEU:HD12	2.45	0.41
12:2c:239:CYS:SG	12:2c:316:LEU:HD23	2.60	0.41
13:2d:313:MET:HG3	13:2d:381:SER:HA	2.02	0.41
12:2e:16:ILE:HD11	12:2e:229:ILE:HG21	2.03	0.41
12:2e:86:ARG:HE	12:3e:281:TYR:HA	1.86	0.41
12:2e:257:LEU:HD23	12:2e:312:THR:HG22	2.02	0.41
13:2h:203:MET:C	13:2h:204:LEU:HD12	2.45	0.41
13:2h:246:GLY:N	13:2h:249:ASN:OD1	2.43	0.41
13:2h:248:LEU:HD23	13:2h:248:LEU:HA	1.79	0.41
30:3F:386:MET:CB	13:8f:339:ARG:NH1	2.84	0.41
31:3I:308:GLN:O	31:3I:312:ARG:HD2	2.20	0.41
31:3I:351:PHE:CE1	31:3I:365:PHE:CE2	3.08	0.41
32:3J:198:VAL:HA	32:3J:199:PRO:HD3	1.73	0.41
32:3K:44:LEU:HD11	32:3K:78:PHE:HB3	2.03	0.41
34:3M:105:GLN:HG3	34:3S:498:LEU:HD11	2.02	0.41
34:3N:352:LEU:HD11	34:3N:382:LEU:HD11	2.03	0.41
34:3O:100:ILE:O	34:3O:104:ARG:HG3	2.21	0.41
34:3O:459:ILE:O	34:3O:462:GLU:HG2	2.20	0.41
34:3S:51:GLY:O	34:3S:55:GLN:HG2	2.20	0.41
34:3S:56:TYR:CD1	34:3S:295:GLN:HG3	2.55	0.41
34:3U:54:GLU:OE2	34:3U:55:GLN:HG2	2.21	0.41
34:3U:251:LEU:HD12	34:3U:254:MET:HE3	2.01	0.41
34:3U:254:MET:HE2	34:3U:477:GLU:CB	2.50	0.41
34:3W:118:HIS:HD2	34:3W:372:GLN:NE2	2.17	0.41
34:3X:405:ALA:O	34:3X:409:GLN:HG2	2.21	0.41
34:3X:500:TYR:O	34:3X:504:LEU:HG	2.20	0.41
34:3Y:359:ARG:HG3	34:3Y:360:VAL:N	2.36	0.41
13:3b:52:PHE:HZ	13:3b:239:THR:HG21	1.85	0.41
13:3b:203:MET:HE2	13:3b:267:PHE:HB3	2.03	0.41
13:3b:334:THR:HA	13:3b:337:THR:HG22	2.03	0.41
13:3d:287:SER:O	13:3d:291:ILE:HG12	2.21	0.41
13:3d:334:THR:HA	13:3d:337:THR:HG22	2.03	0.41
13:3f:52:PHE:HZ	13:3f:239:THR:HG21	1.84	0.41
13:3f:313:MET:HG3	13:3f:381:SER:HA	2.02	0.41
13:3h:313:MET:HG3	13:3h:381:SER:HA	2.02	0.41
13:3h:334:THR:HA	13:3h:337:THR:HG22	2.03	0.41
34:4A:93:VAL:O	34:4A:97:LEU:HG	2.20	0.41
34:4B:118:HIS:HD2	34:4B:372:GLN:NE2	2.17	0.41
35:4C:1078:LEU:HD12	35:4C:1078:LEU:HA	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4E:586:PHE:HB3	43:5L:18:ILE:HG21	2.03	0.41
37:4E:1392:GLN:H	37:4E:1392:GLN:HG3	1.68	0.41
37:4F:565:ALA:HA	37:4F:674:HIS:HB2	2.02	0.41
37:4F:826:LEU:HD13	38:4N:85:LEU:HD11	2.01	0.41
37:4F:960:LEU:HD23	38:4K:72:ARG:HE	1.85	0.41
37:4F:1083:ILE:CG1	37:4F:1352:PRO:HG3	2.34	0.41
37:4G:975:VAL:HG23	37:4G:977:PRO:HD3	2.02	0.41
37:4G:1074:GLN:OE1	38:4L:41:LYS:HB3	2.20	0.41
37:4G:1323:ILE:HG12	38:4L:26:GLU:CG	2.51	0.41
37:4G:1338:PHE:HE1	38:4L:35:ALA:HB1	1.77	0.41
37:4H:798:MET:HE3	37:4H:798:MET:HB3	1.93	0.41
37:4H:938:SER:OG	37:4H:955:GLY:HA2	2.20	0.41
37:4H:1084:ARG:HD2	38:4M:41:LYS:HE2	1.99	0.41
37:4H:1317:ASP:O	37:4H:1318:TYR:HB3	2.21	0.41
37:4H:1333:VAL:CG2	37:4H:1341:ILE:HB	2.51	0.41
38:4I:26:GLU:O	38:4I:29:LYS:N	2.53	0.41
38:4J:25:PRO:CA	38:4J:28:VAL:H	2.29	0.41
38:4K:38:VAL:CG1	38:4K:41:LYS:HB3	2.50	0.41
38:4O:20:VAL:O	38:4O:23:THR:OG1	2.36	0.41
39:4R:63:ILE:HD11	44:5Q:92:ALA:HB1	2.01	0.41
39:4R:210:LEU:HA	39:4R:210:LEU:HD23	1.81	0.41
39:4S:15:LEU:CD2	43:5K:124:MET:SD	3.09	0.41
39:4S:34:ASN:OD1	44:5U:116:LEU:HD22	2.21	0.41
40:4T:260:GLU:OE1	40:4T:260:GLU:N	2.50	0.41
40:4U:171:HIS:CE1	40:4U:290:PRO:HA	2.55	0.41
12:4a:277:GLY:O	12:4a:281:TYR:CD2	2.74	0.41
13:4b:119:LEU:HD11	13:4b:156:ARG:HB3	2.03	0.41
13:4b:217:LEU:HG	13:4b:277:SER:HB3	2.01	0.41
12:4e:73:MET:CE	12:4e:92:PHE:HB3	2.49	0.41
13:4f:104:ALA:HB2	13:4f:413:MET:HB2	2.01	0.41
13:4f:119:LEU:HD11	13:4f:156:ARG:HB3	2.03	0.41
13:4f:203:MET:C	13:4f:204:LEU:HD12	2.45	0.41
13:4h:119:LEU:HD11	13:4h:156:ARG:HB3	2.03	0.41
41:5A:76:HIS:O	41:5A:92:TRP:O	2.38	0.41
42:5H:70:ARG:NH2	42:5H:111:GLY:O	2.46	0.41
43:5I:162:VAL:HG13	43:5I:164:GLU:OE2	2.20	0.41
43:5J:162:VAL:HG13	43:5J:164:GLU:OE2	2.21	0.41
43:5L:161:ASP:OD1	43:5L:161:ASP:N	2.29	0.41
44:5S:94:LYS:HA	44:5S:97:ASP:OD1	2.21	0.41
44:5S:97:ASP:HB3	44:5S:104:ILE:HD11	2.02	0.41
12:5e:113:ILE:HD13	12:5e:150:LEU:HG	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5e:186:THR:HA	12:5e:189:VAL:HG12	2.02	0.41
12:5e:238:CYS:SG	12:5e:239:CYS:N	2.94	0.41
13:5f:179:THR:OG1	54:5f:501:GTP:O3'	2.37	0.41
47:6A:17:VAL:CG2	47:6A:21:LEU:HD23	2.51	0.41
47:6A:111:HIS:NE2	47:6A:112:MET:SD	2.94	0.41
47:6A:1372:ALA:O	47:6A:1376:LEU:HG	2.20	0.41
47:6A:1625:VAL:HG11	47:6A:1754:LEU:CD2	2.51	0.41
47:6A:1832:VAL:O	47:6A:1836:VAL:HG23	2.20	0.41
47:6B:33:GLN:HA	47:6B:36:SER:OG	2.21	0.41
47:6B:111:HIS:NE2	47:6B:112:MET:SD	2.94	0.41
47:6B:277:PHE:CD2	47:6B:277:PHE:C	2.96	0.41
47:6B:370:GLN:O	47:6B:373:SER:HB3	2.21	0.41
47:6B:1561:LEU:HD23	47:6B:1625:VAL:HG23	2.01	0.41
47:6B:1631:ALA:HB2	47:6B:1920:TRP:CZ2	2.56	0.41
3:6D:988:TRP:HA	3:6D:991:ILE:HG13	2.03	0.41
48:6E:577:CYS:HB3	48:6E:582:LEU:HB2	2.02	0.41
48:6F:906:ALA:HA	48:6F:917:THR:OG1	2.21	0.41
49:6G:249:VAL:HA	49:6G:255:PHE:HA	2.03	0.41
49:6H:134:GLN:NE2	49:6H:138:ASP:OD2	2.53	0.41
49:6H:136:MET:HG2	49:6H:136:MET:H	1.55	0.41
49:6H:273:ILE:CG2	49:6H:279:THR:HA	2.49	0.41
49:6J:205:LEU:HD12	49:6J:205:LEU:HA	1.91	0.41
50:6K:83:ILE:HD12	50:6K:83:ILE:H	1.86	0.41
50:6K:498:ASP:OD2	50:6K:505:ASN:ND2	2.51	0.41
50:6L:8:ILE:CG2	50:6L:143:VAL:HG21	2.49	0.41
50:6L:119:GLU:CD	50:6L:164:ASP:HB2	2.46	0.41
50:6L:436:THR:OG1	50:6L:476:GLY:HA2	2.20	0.41
51:6M:2278:GLU:OE2	51:6M:2278:GLU:N	2.53	0.41
51:6N:1251:LYS:HZ1	51:6N:1323:ASP:HB3	1.85	0.41
51:6N:1807:GLU:OE1	51:6N:1811:ARG:NE	2.54	0.41
51:6N:1819:GLU:HG3	51:6N:1820:GLU:N	2.35	0.41
51:6N:1919:ALA:HA	51:6N:1922:TRP:CZ2	2.55	0.41
13:6b:287:SER:O	13:6b:291:ILE:HG12	2.21	0.41
13:6d:119:LEU:HD11	13:6d:156:ARG:HB3	2.03	0.41
13:6d:313:MET:HG3	13:6d:381:SER:HA	2.02	0.41
12:6e:204:ASN:HD21	53:6e:502:GDP:HN22	1.68	0.41
12:6e:372:THR:HA	12:6e:422:TYR:CD1	2.56	0.41
12:6e:374:ILE:HD11	12:6e:422:TYR:CZ	2.56	0.41
13:6f:119:LEU:HD11	13:6f:156:ARG:HB3	2.03	0.41
13:6h:371:VAL:HG22	13:6h:373:ARG:H	1.85	0.41
12:7a:1:MET:HG3	12:7a:2:ARG:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7d:406:HIS:CD2	12:7e:260:PHE:HA	2.56	0.41
13:8b:90:GLU:OE1	13:8b:121:ARG:NE	2.44	0.41
13:8d:203:MET:HE2	13:8d:267:PHE:HB3	2.03	0.41
13:8d:237:SER:HA	13:8d:320:ARG:HD2	2.02	0.41
13:8d:287:SER:O	13:8d:291:ILE:HG12	2.21	0.41
13:8d:371:VAL:HG22	13:8d:373:ARG:H	1.85	0.41
12:8e:106:TYR:HE1	12:8e:403:MET:HE1	1.85	0.41
12:8e:113:ILE:HD11	12:8e:154:LYS:HG3	2.02	0.41
12:8e:170:VAL:HG21	12:8e:201:VAL:HG13	2.03	0.41
12:8e:174:LYS:HZ2	13:8f:333:ALA:HB2	1.85	0.41
13:8f:181:VAL:HG22	12:8g:347:ASN:O	2.20	0.41
13:8f:237:SER:HA	13:8f:320:ARG:HD2	2.02	0.41
13:8f:287:SER:O	13:8f:291:ILE:HG12	2.21	0.41
13:9b:392:ASP:OD1	13:9b:425:LEU:HD23	2.21	0.41
12:9c:25:SER:OG	12:9c:30:ILE:O	2.38	0.41
13:9d:407:TRP:CE2	12:9e:255:VAL:HA	2.56	0.41
13:Ad:90:GLU:OE1	13:Ad:121:ARG:NE	2.44	0.41
12:Ae:1:MET:HG2	12:Ae:129:CYS:SG	2.60	0.41
12:Ae:3:GLU:HB3	12:Ae:62:ARG:HH21	1.86	0.41
13:Af:145:THR:OG1	54:Af:501:GTP:O3B	2.31	0.41
12:Ag:362:LYS:HG2	12:Ag:363:MET:HG3	2.02	0.41
12:Ba:3:GLU:HB3	12:Ba:62:ARG:NH2	2.35	0.41
12:Ba:238:CYS:SG	12:Ba:239:CYS:N	2.93	0.41
12:Ba:271:THR:OG1	12:Ba:365:ALA:HB3	2.21	0.41
13:Bb:313:MET:HG3	13:Bb:381:SER:HA	2.02	0.41
13:Bb:392:ASP:OD1	13:Bb:425:LEU:HD23	2.21	0.41
12:Be:179:VAL:HG22	13:Bf:351:PHE:N	2.36	0.41
13:Cd:119:LEU:HD11	13:Cd:156:ARG:HB3	2.03	0.41
13:Cf:145:THR:OG1	54:Cf:501:GTP:O3B	2.31	0.41
13:Ch:119:LEU:HD11	13:Ch:156:ARG:HB3	2.03	0.41
13:Db:206:ASN:OD1	54:Db:501:GTP:N2	2.49	0.41
13:Dd:287:SER:O	13:Dd:291:ILE:HG12	2.21	0.41
12:De:13:GLY:HA2	12:De:16:ILE:HG22	2.03	0.41
12:De:257:LEU:HD23	12:De:312:THR:HG22	2.02	0.41
13:Dh:237:SER:HA	13:Dh:320:ARG:HD2	2.01	0.41
13:Dh:287:SER:O	13:Dh:291:ILE:HG12	2.21	0.41
1:0J:127:LEU:HD22	1:0J:163:VAL:HG12	2.02	0.41
1:0A:91:SER:HA	1:0A:99:TYR:HE2	1.81	0.41
1:0A:348:PRO:HG2	1:0A:349:GLU:OE1	2.19	0.41
1:0B:282:THR:HB	1:0B:284:GLU:OE2	2.21	0.41
1:0C:85:LEU:CD1	1:0C:107:LEU:HD23	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0F:298:LEU:HD23	1:0F:298:LEU:HA	1.94	0.41
1:0L:359:THR:O	1:0L:363:ILE:HG13	2.20	0.41
1:0M:374:VAL:HG13	1:0M:379:CYS:HB2	2.01	0.41
1:0O:230:CYS:HB2	1:0O:270:HIS:HB3	2.03	0.41
1:0O:302:ILE:HA	1:0O:310:ARG:HB2	2.03	0.41
1:0P:29:LYS:HD2	1:0P:29:LYS:HA	1.92	0.41
1:0R:76:ALA:HB3	1:0R:117:LEU:HD13	2.03	0.41
1:0R:407:VAL:O	1:0R:411:LEU:HB2	2.20	0.41
1:0S:29:LYS:HD2	1:0S:29:LYS:HA	1.89	0.41
1:0S:108:ARG:HH22	1:0S:144:ALA:HB1	1.85	0.41
1:0T:318:GLY:HA3	1:0T:359:THR:HG22	2.03	0.41
1:0U:348:PRO:HA	1:0U:353:LYS:HE3	2.03	0.41
1:0U:407:VAL:HB	1:0U:411:LEU:CD2	2.45	0.41
1:0V:407:VAL:O	1:0V:411:LEU:HB2	2.20	0.41
1:0X:70:ASN:O	1:0X:113:HIS:HE1	2.03	0.41
1:0X:264:ASP:OD2	1:0X:266:PHE:HD2	2.03	0.41
1:0X:270:HIS:O	1:0X:273:THR:OG1	2.31	0.41
1:1A:83:GLU:O	1:1A:86:PRO:HD2	2.20	0.41
1:1B:252:ILE:C	1:1B:256:ILE:HG13	2.46	0.41
1:1C:318:GLY:CA	1:1C:359:THR:HG22	2.50	0.41
1:1C:341:VAL:HG21	1:1C:377:THR:HG22	2.02	0.41
1:1C:394:ASP:OD2	1:1C:394:ASP:N	2.53	0.41
2:1D:51:VAL:HG23	2:1F:17:THR:HG21	2.03	0.41
2:1D:232:ALA:C	2:1D:235:PRO:HD2	2.46	0.41
2:1G:146:ALA:O	2:1G:150:ILE:HG13	2.20	0.41
3:1I:228:ASN:HB3	3:1I:230:GLU:OE2	2.21	0.41
3:1I:511:LEU:HB3	3:1I:524:ARG:HD3	2.03	0.41
3:1I:973:LEU:O	3:1I:977:GLU:HG3	2.21	0.41
3:1I:981:LYS:HD3	3:1I:1020:LEU:HD13	2.03	0.41
5:1L:442:MET:SD	13:1b:405:VAL:HB	2.61	0.41
5:1L:455:SER:C	5:1L:457:ALA:H	2.29	0.41
5:1M:549:MET:CB	13:1f:163:LYS:HE2	2.51	0.41
6:1N:424:PHE:HE2	6:1N:436:ALA:HB2	1.86	0.41
6:1N:664:ALA:CB	6:1N:705:VAL:HG12	2.51	0.41
6:1N:1240:VAL:O	6:1N:1243:ALA:HB3	2.21	0.41
6:1N:1427:PRO:HA	6:1N:1428:PRO:HD3	1.96	0.41
6:1N:1444:ILE:HD12	6:1N:1940:PRO:HG3	2.02	0.41
6:1N:1481:LEU:HD23	6:1N:1481:LEU:HA	1.89	0.41
6:1N:1876:VAL:HG21	6:1N:1902:LEU:HD11	2.02	0.41
6:1N:2240:ALA:HA	6:1N:2241:PRO:HD3	1.97	0.41
7:1O:871:ALA:O	7:1O:875:THR:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1R:57:LYS:H	13:Ad:339:ARG:HH22	1.66	0.41
10:1R:278:THR:HG22	10:1R:280:ALA:N	2.35	0.41
12:1a:73:MET:CE	12:1a:92:PHE:HB3	2.49	0.41
13:1b:203:MET:C	13:1b:204:LEU:HD12	2.45	0.41
13:1b:287:SER:O	13:1b:291:ILE:HG12	2.21	0.41
12:1e:16:ILE:HD11	12:1e:229:ILE:CG2	2.51	0.41
13:1f:203:MET:C	13:1f:204:LEU:HD12	2.45	0.41
13:1h:283:HIS:HB3	12:De:86:ARG:CD	2.49	0.41
13:1h:287:SER:O	13:1h:291:ILE:HG12	2.21	0.41
14:2F:122:ALA:HB2	13:Bb:372:GLN:OE1	2.21	0.41
14:2G:37:PHE:CZ	12:De:87:PRO:HA	2.55	0.41
14:2G:164:ALA:HB1	12:Ae:215:LEU:HD22	2.03	0.41
14:2G:168:GLY:N	12:Ae:279:GLN:OE1	2.53	0.41
20:2N:10:UNK:O	13:6f:225:THR:HG21	2.20	0.41
23:2R:52:UNK:CB	12:2c:125:GLU:HG2	2.50	0.41
24:2T:217:ARG:HH12	12:Cg:263:LEU:HD13	1.84	0.41
24:2U:114:ARG:O	24:2U:115:ALA:C	2.64	0.41
24:2U:189:ILE:HG22	24:2U:193:GLN:NE2	2.29	0.41
12:2a:98:GLY:HA2	13:2b:254:GLU:CG	2.51	0.41
12:2e:13:GLY:HA2	12:2e:16:ILE:HG22	2.03	0.41
12:2e:106:TYR:HE1	12:2e:403:MET:HE1	1.85	0.41
13:2f:246:GLY:N	13:2f:249:ASN:OD1	2.43	0.41
29:3E:1150:TYR:CE1	29:3E:1154:ARG:NH2	2.89	0.41
30:3G:539:LEU:HA	13:8h:298:PRO:HG3	2.02	0.41
30:3G:681:GLU:CD	30:3G:685:ARG:HH21	2.29	0.41
31:3H:123:TYR:HE1	31:3H:197:GLU:CG	2.34	0.41
31:3H:144:ILE:HG22	31:3H:148:TYR:CE2	2.56	0.41
32:3J:50:VAL:HG22	32:3J:135:PRO:HG2	2.03	0.41
32:3J:344:VAL:O	32:3J:348:ARG:HG3	2.21	0.41
34:3O:492:LEU:HA	34:3O:495:GLN:OE1	2.19	0.41
34:3Q:397:LEU:O	34:3Q:401:VAL:HG23	2.20	0.41
34:3R:258:TYR:CG	34:3R:474:TRP:HD1	2.39	0.41
34:3R:398:ARG:O	34:3R:401:VAL:N	2.50	0.41
34:3S:254:MET:HE2	34:3S:254:MET:N	2.35	0.41
34:3S:327:VAL:HG11	34:3S:404:HIS:HB3	2.03	0.41
34:3T:342:GLN:NE2	34:3T:386:HIS:NE2	2.69	0.41
34:3W:476:GLY:HA2	37:4H:764:LEU:HD11	2.02	0.41
12:3a:248:ALA:CB	12:3a:350:LYS:NZ	2.83	0.41
13:3b:119:LEU:HD11	13:3b:156:ARG:HB3	2.03	0.41
13:3d:119:LEU:HD11	13:3d:156:ARG:HB3	2.03	0.41
13:3f:90:GLU:OE1	13:3f:121:ARG:NE	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3f:203:MET:HE2	13:3f:267:PHE:HB3	2.03	0.41
13:3h:203:MET:HE2	13:3h:267:PHE:HB3	2.03	0.41
34:4A:119:MET:CE	37:4F:1529:ILE:HG23	2.49	0.41
34:4B:49:PHE:O	34:4B:53:ILE:HG13	2.21	0.41
34:4B:96:HIS:O	34:4B:100:ILE:HG13	2.20	0.41
34:4B:235:LEU:HD23	34:4B:235:LEU:HA	1.92	0.41
35:4C:338:SER:HB2	35:4C:358:THR:OG1	2.20	0.41
35:4C:760:GLY:HA3	35:4C:761:ARG:NH2	2.35	0.41
35:4C:815:LEU:HD12	35:4C:849:ILE:HD11	2.03	0.41
37:4E:569:ALA:HB1	42:5H:123:ALA:HB2	2.03	0.41
37:4F:552:ASP:CG	37:4F:555:GLU:HG2	2.45	0.41
37:4F:583:GLU:HG3	43:5K:28:THR:HB	2.03	0.41
37:4G:664:TYR:CD1	38:4I:43:ASN:CB	2.99	0.41
37:4G:1073:LEU:HD23	37:4G:1073:LEU:HA	1.68	0.41
37:4G:1094:ALA:CB	37:4G:1095:PRO:CG	2.97	0.41
37:4G:1334:GLU:HB2	37:4G:1340:PRO:CB	2.48	0.41
37:4G:1347:GLY:O	37:4G:1348:LEU:HD12	2.21	0.41
37:4G:1725:PRO:O	37:4G:1726:HIS:HB3	2.20	0.41
37:4H:431:ALA:CB	38:4M:86:SER:OG	2.60	0.41
37:4H:514:TYR:CD2	37:4H:538:GLU:HB3	2.50	0.41
37:4H:759:PRO:HD2	37:4H:762:ALA:HB3	2.02	0.41
37:4H:954:SER:O	38:4M:48:PRO:CB	2.68	0.41
37:4H:1144:LEU:HD11	38:4M:29:LYS:CA	2.51	0.41
38:4I:75:ASN:O	38:4I:77:VAL:N	2.54	0.41
38:4J:84:LEU:CB	38:4M:77:VAL:HG22	2.49	0.41
39:4S:65:ARG:HD3	44:5R:48:THR:HG22	2.03	0.41
12:4a:238:CYS:SG	12:4a:239:CYS:N	2.93	0.41
13:4b:52:PHE:HZ	13:4b:239:THR:HG21	1.85	0.41
13:4b:287:SER:O	13:4b:291:ILE:HG12	2.21	0.41
13:4b:334:THR:HA	13:4b:337:THR:HG22	2.03	0.41
13:4b:371:VAL:HG22	13:4b:373:ARG:H	1.85	0.41
13:4d:300:SER:O	13:4d:300:SER:OG	2.39	0.41
13:4f:287:SER:O	13:4f:291:ILE:HG12	2.21	0.41
13:4h:203:MET:C	13:4h:204:LEU:HD12	2.45	0.41
13:4h:287:SER:O	13:4h:291:ILE:HG12	2.21	0.41
13:4h:334:THR:HA	13:4h:337:THR:HG22	2.03	0.41
42:5H:85:CYS:SG	42:5H:133:LEU:HD11	2.61	0.41
42:5H:140:TYR:HD2	42:5H:144:PHE:CE2	2.39	0.41
43:5I:139:TYR:O	43:5I:143:MET:N	2.46	0.41
43:5J:55:TYR:CG	43:5J:76:PHE:CE2	3.09	0.41
43:5K:155:ALA:O	43:5K:156:SER:OG	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:5Q:141:ASN:HB3	44:5Q:144:GLU:HB3	2.03	0.41
44:5T:32:THR:HG1	44:5T:35:GLU:HG2	1.86	0.41
13:5d:119:LEU:HD11	13:5d:156:ARG:HB3	2.03	0.41
12:5e:374:ILE:HD11	12:5e:422:TYR:CZ	2.56	0.41
13:5h:3:GLU:HA	13:5h:51:THR:HA	2.03	0.41
13:5h:52:PHE:HZ	13:5h:239:THR:HG21	1.85	0.41
47:6A:33:GLN:HA	47:6A:36:SER:OG	2.21	0.41
47:6A:370:GLN:O	47:6A:373:SER:HB3	2.21	0.41
47:6A:486:TYR:CZ	47:6A:495:PRO:HD3	2.56	0.41
47:6A:780:LEU:HD23	47:6A:780:LEU:HA	1.68	0.41
47:6A:1384:LEU:HA	47:6A:1387:THR:HG22	2.03	0.41
47:6A:1843:ARG:HH21	50:6L:577:GLU:HB3	1.86	0.41
47:6B:17:VAL:CG2	47:6B:21:LEU:HD23	2.51	0.41
47:6B:284:LEU:C	47:6B:287:GLY:H	2.29	0.41
47:6B:1384:LEU:HA	47:6B:1387:THR:HG22	2.03	0.41
47:6B:1625:VAL:HG11	47:6B:1754:LEU:CD2	2.51	0.41
3:6D:828:MET:SD	3:6D:862:PHE:HB2	2.61	0.41
3:6D:860:HIS:HB2	3:6D:861:PRO:HD3	2.03	0.41
48:6E:805:LEU:HD23	48:6E:805:LEU:HA	1.77	0.41
48:6F:486:ARG:O	48:6F:489:VAL:HB	2.21	0.41
48:6F:800:LEU:HA	49:6J:17:GLU:CD	2.46	0.41
49:6H:117:ILE:HD11	49:6H:148:LEU:HD22	2.01	0.41
49:6I:22:LEU:HD12	49:6I:22:LEU:HA	1.95	0.41
49:6J:44:PRO:HB2	49:6J:46:GLU:OE1	2.21	0.41
49:6J:182:ASN:HD21	49:6J:433:ALA:HB2	1.86	0.41
50:6K:79:PHE:HA	50:6K:84:VAL:HG21	2.03	0.41
50:6K:119:GLU:CD	50:6K:164:ASP:HB2	2.46	0.41
50:6L:51:LEU:HD12	50:6L:59:GLN:HG3	2.02	0.41
51:6M:1807:GLU:OE1	51:6M:1811:ARG:NE	2.54	0.41
51:6N:2172:PRO:HG3	51:6N:2283:VAL:HG13	2.03	0.41
12:6a:210:ILE:HG13	12:6a:211:CYS:N	2.35	0.41
12:6a:397:TRP:CE2	13:6b:257:THR:HA	2.55	0.41
13:6b:237:SER:HA	13:6b:320:ARG:HD2	2.02	0.41
13:6d:371:VAL:HG22	13:6d:373:ARG:H	1.85	0.41
12:6e:238:CYS:SG	12:6e:239:CYS:N	2.94	0.41
13:6f:313:MET:HG3	13:6f:381:SER:HA	2.02	0.41
13:6h:119:LEU:HD11	13:6h:156:ARG:HB3	2.03	0.41
13:7b:334:THR:HA	13:7b:337:THR:HG22	2.03	0.41
13:7d:371:VAL:HG22	13:7d:373:ARG:H	1.85	0.41
12:7g:141:GLY:O	12:7g:145:SER:OG	2.21	0.41
13:8b:313:MET:HG3	13:8b:381:SER:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:8e:406:MET:O	12:8e:409:THR:OG1	2.36	0.41
13:8f:145:THR:OG1	54:8f:501:GTP:O3B	2.31	0.41
13:8f:246:GLY:N	13:8f:249:ASN:OD1	2.43	0.41
13:8h:179:THR:OG1	54:8h:501:GTP:O3'	2.37	0.41
12:9a:245:GLN:OE1	12:9a:353:VAL:HG12	2.20	0.41
12:9a:396:HIS:CD2	13:9b:263:PRO:HD3	2.56	0.41
13:9b:273:ALA:N	13:9b:375:VAL:O	2.48	0.41
13:9b:317:LEU:HB3	13:9b:319:TYR:CE1	2.53	0.41
13:9d:203:MET:C	13:9d:204:LEU:HD12	2.45	0.41
12:9e:207:LEU:O	12:9e:210:ILE:HG12	2.20	0.41
12:9g:379:LYS:O	12:9g:383:GLU:HG2	2.21	0.41
13:9h:203:MET:C	13:9h:204:LEU:HD12	2.45	0.41
12:Ac:335:ASN:O	12:Ac:338:SER:OG	2.39	0.41
12:Ae:326:VAL:O	12:Ae:330:MET:HG2	2.21	0.41
13:Ah:288:VAL:HG21	13:Ah:327:ASP:HB3	2.02	0.41
12:Ba:1:MET:H1	12:Ba:1:MET:CE	2.24	0.41
12:Ba:154:LYS:O	12:Ba:158:GLU:HG2	2.21	0.41
12:Ba:286:VAL:N	12:Ba:287:PRO:HD2	2.35	0.41
13:Bf:222:PRO:O	12:Bg:324:LYS:HB3	2.19	0.41
13:Bf:392:ASP:OD1	13:Bf:425:LEU:HD23	2.21	0.41
12:Bg:174:LYS:HE2	12:Bg:174:LYS:HB2	1.86	0.41
13:Bh:179:THR:OG1	54:Bh:501:GTP:O3'	2.37	0.41
12:Ca:208:TYR:CE1	12:Ca:225:LEU:HD11	2.55	0.41
13:Cb:371:VAL:HG22	13:Cb:373:ARG:H	1.85	0.41
13:Cb:394:LYS:NZ	12:Cc:346:PRO:HB2	2.35	0.41
13:Cd:203:MET:C	13:Cd:204:LEU:HD12	2.45	0.41
12:Ce:372:THR:HA	12:Ce:422:TYR:CD1	2.56	0.41
13:Cf:210:TYR:CG	12:Cg:324:LYS:HD3	2.56	0.41
13:Ch:33:ASP:OD2	13:Ch:35:GLN:NE2	2.53	0.41
12:Da:213:ARG:HD2	12:Da:297:LYS:HD3	2.03	0.41
13:Db:203:MET:C	13:Db:204:LEU:HD12	2.45	0.41
12:De:176:SER:CB	13:Df:349:THR:HB	2.50	0.41
13:Df:210:TYR:CD1	12:Dg:324:LYS:HB2	2.56	0.41
13:Df:237:SER:HA	13:Df:320:ARG:HD2	2.01	0.41
13:Df:287:SER:O	13:Df:291:ILE:HG12	2.21	0.41
13:Dh:371:VAL:HG22	13:Dh:373:ARG:H	1.85	0.41
1:0H:21:VAL:HG21	1:0H:57:ILE:HG23	2.03	0.41
1:0H:177:GLN:HG2	1:0H:213:TYR:CE1	2.56	0.41
1:0H:392:SER:O	1:0H:392:SER:OG	2.39	0.41
1:0J:77:GLU:HB2	1:0J:117:LEU:HD21	2.02	0.41
1:0W:30:ASN:O	1:0W:34:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0I:13:TYR:O	1:0I:17:ARG:HG3	2.21	0.41
1:0I:302:ILE:HG23	1:0I:310:ARG:HE	1.85	0.41
1:0A:25:ALA:O	1:0A:67:ARG:NH1	2.54	0.41
1:0A:85:LEU:HB3	1:0A:86:PRO:HD3	2.03	0.41
1:0A:147:TRP:CD1	1:0A:186:ILE:CG2	3.04	0.41
1:0A:320:ILE:CG2	1:0A:327:LEU:HB3	2.51	0.41
1:0B:47:ARG:CD	47:6B:123:ALA:HB2	2.50	0.41
1:0B:120:SER:HA	1:0B:123:ASP:OD1	2.21	0.41
1:0B:396:LEU:HD23	1:0B:396:LEU:HA	1.90	0.41
1:0C:213:TYR:O	1:0C:216:PRO:HD2	2.21	0.41
1:0C:335:LYS:HZ3	1:0C:338:PRO:HB2	1.85	0.41
1:0C:401:ARG:O	1:0C:405:LYS:HG2	2.20	0.41
1:0C:403:ALA:O	1:0C:407:VAL:HG23	2.21	0.41
1:0E:30:ASN:O	1:0E:33:ASN:HB2	2.21	0.41
1:0E:217:LEU:HB2	1:0E:229:VAL:HG11	2.03	0.41
1:0F:391:ALA:HB3	1:0F:396:LEU:HD12	2.03	0.41
1:0F:398:THR:O	1:0F:402:ARG:HG3	2.21	0.41
1:0L:23:ALA:O	1:0L:27:MET:HG2	2.20	0.41
1:0M:143:GLU:O	1:0M:147:TRP:HD1	2.04	0.41
1:0M:230:CYS:HB3	1:0M:270:HIS:HB3	2.03	0.41
1:0M:347:GLU:HB3	1:0M:349:GLU:HG2	2.02	0.41
1:0N:86:PRO:HA	1:0N:89:VAL:HG22	2.02	0.41
1:0N:344:LEU:HA	1:0N:347:GLU:OE2	2.20	0.41
1:0O:23:ALA:O	1:0O:27:MET:HG2	2.20	0.41
1:0O:39:GLN:OE1	10:1R:354:VAL:HA	2.21	0.41
1:0O:64:ALA:O	1:0O:68:LEU:HG	2.20	0.41
1:0O:224:LYS:CD	1:0O:227:ARG:HH21	2.34	0.41
1:0P:17:ARG:HH12	1:0Q:45:LEU:HD22	1.85	0.41
1:0P:17:ARG:O	1:0P:21:VAL:HG23	2.21	0.41
1:0P:226:LYS:HE3	1:0P:259:CYS:SG	2.61	0.41
1:0Q:13:TYR:O	1:0Q:17:ARG:HG3	2.21	0.41
1:0Q:86:PRO:HA	1:0Q:89:VAL:CG1	2.50	0.41
1:0R:108:ARG:CZ	1:0R:147:TRP:CE3	2.98	0.41
1:0R:153:ALA:O	1:0R:197:HIS:CD2	2.73	0.41
1:0S:21:VAL:HG12	1:0S:49:LEU:HD13	2.03	0.41
1:0S:70:ASN:CA	1:0S:113:HIS:HE2	2.29	0.41
1:0S:84:ILE:O	1:0S:88:LEU:HG	2.21	0.41
1:0S:257:LEU:HD23	1:0S:257:LEU:HA	1.85	0.41
1:0S:269:LYS:HB3	1:0S:269:LYS:HE2	1.81	0.41
1:0U:51:LEU:HG	1:0U:87:GLN:NE2	2.36	0.41
1:0U:270:HIS:O	1:0U:273:THR:OG1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0V:42:ALA:HB2	1:0W:10:PHE:HZ	1.85	0.41
1:0V:265:GLU:HA	1:0V:268:LYS:HE2	2.03	0.41
1:0V:347:GLU:OE1	1:0V:353:LYS:HG2	2.21	0.41
1:0X:24:VAL:HG11	1:0X:46:LEU:HD21	2.02	0.41
1:0X:147:TRP:CD1	1:0X:186:ILE:CG2	3.04	0.41
1:0X:392:SER:O	1:0X:392:SER:OG	2.39	0.41
1:0X:394:ASP:OD2	1:0X:394:ASP:N	2.53	0.41
1:0Y:24:VAL:HG11	1:0Y:46:LEU:HD21	2.02	0.41
1:0Y:274:VAL:O	1:0Y:278:VAL:HG13	2.20	0.41
1:0Y:391:ALA:HB3	1:0Y:396:LEU:HD12	2.03	0.41
1:0Z:17:ARG:HH12	1:1A:45:LEU:HD22	1.86	0.41
1:0Z:213:TYR:O	1:0Z:216:PRO:HD2	2.21	0.41
1:0Z:401:ARG:O	1:0Z:405:LYS:HG2	2.20	0.41
1:1A:176:VAL:HG11	1:1A:213:TYR:HB3	2.03	0.41
1:1A:230:CYS:HB2	1:1A:270:HIS:HB3	2.02	0.41
1:1A:257:LEU:HD23	1:1A:257:LEU:HA	1.90	0.41
1:1B:113:HIS:HB2	1:1B:117:LEU:HD23	2.02	0.41
1:1B:192:SER:HB2	1:1B:231:CYS:SG	2.60	0.41
1:1B:382:THR:O	1:1B:386:LEU:HD13	2.21	0.41
2:1D:98:ALA:O	2:1D:101:SER:HB3	2.20	0.41
2:1D:147:MET:SD	2:1D:183:ILE:HG12	2.61	0.41
2:1E:82:LEU:HG	2:1E:118:PRO:O	2.20	0.41
2:1E:135:VAL:C	2:1E:137:PHE:N	2.79	0.41
2:1F:7:LYS:HD3	2:1F:7:LYS:HA	1.85	0.41
2:1G:112:MET:SD	2:1G:127:LEU:HD11	2.61	0.41
3:1H:508:LEU:HD23	3:1H:508:LEU:HA	1.93	0.41
3:1H:798:ALA:HA	3:1H:799:PRO:HD2	1.92	0.41
3:1H:848:ARG:O	47:6A:382:SER:HB3	2.19	0.41
3:1H:874:THR:O	3:1H:877:HIS:N	2.54	0.41
3:1H:995:PHE:CD1	47:6A:406:ARG:CZ	3.04	0.41
3:1I:531:MET:HE3	3:1I:531:MET:HB3	1.92	0.41
3:1I:545:SER:HA	3:1I:550:PHE:CD2	2.56	0.41
3:1I:756:LEU:HB3	3:1I:807:CYS:SG	2.61	0.41
3:1I:1027:ALA:HA	3:1I:1030:ARG:HD2	2.01	0.41
4:1K:408:ASN:HA	4:1K:426:VAL:HA	2.02	0.41
5:1L:388:ALA:O	5:1L:439:PRO:HD2	2.21	0.41
5:1L:560:MET:HB3	5:1L:560:MET:HE3	1.79	0.41
5:1M:388:ALA:O	5:1M:439:PRO:HD2	2.21	0.41
5:1M:440:LYS:HB3	12:1g:262:ARG:CD	2.50	0.41
5:1M:455:SER:C	5:1M:457:ALA:H	2.29	0.41
6:1N:62:ASP:OD2	6:1N:63:VAL:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1N:813:LEU:HA	6:1N:813:LEU:HD23	1.42	0.41
6:1N:1394:THR:O	6:1N:1398:HIS:CD2	2.73	0.41
6:1N:1889:GLY:HA3	6:1N:1934:PHE:HE1	1.86	0.41
6:1N:1897:LEU:HD22	6:1N:1961:ARG:HD2	2.02	0.41
6:1N:1900:ALA:HB1	6:1N:1920:VAL:HG13	2.02	0.41
6:1N:2535:LEU:HD12	6:1N:2619:THR:OG1	2.21	0.41
6:1N:2653:ASP:OD1	6:1N:2653:ASP:N	2.54	0.41
7:1O:225:TRP:CH2	8:1P:877:VAL:HG21	2.56	0.41
7:1O:278:ALA:O	7:1O:282:LEU:HG	2.20	0.41
7:1O:526:THR:O	7:1O:530:MET:HG2	2.20	0.41
7:1O:1647:VAL:HG11	7:1O:1730:VAL:CG1	2.50	0.41
7:1O:2498:ASP:OD1	7:1O:2501:GLU:HG3	2.20	0.41
7:1O:3028:SER:HA	7:1O:3209:ASN:OD1	2.20	0.41
8:1P:917:GLU:HG3	8:1P:921:LYS:HD3	2.03	0.41
10:1R:371:LEU:HB2	13:Bb:214:ARG:HD2	2.02	0.41
12:1a:154:LYS:O	12:1a:158:GLU:HG2	2.21	0.41
12:1a:201:VAL:HG22	12:1a:266:PHE:O	2.21	0.41
13:1b:217:LEU:HG	13:1b:277:SER:HB3	2.01	0.41
13:1b:273:ALA:N	13:1b:375:VAL:O	2.48	0.41
13:1d:217:LEU:HG	13:1d:277:SER:HB3	2.01	0.41
13:1d:287:SER:O	13:1d:291:ILE:HG12	2.21	0.41
12:1e:68:LEU:HD23	12:1e:143:THR:HG23	2.02	0.41
12:1e:69:GLU:OE1	13:1f:251:ASP:OD1	2.39	0.41
12:1e:73:MET:CE	12:1e:92:PHE:HB3	2.49	0.41
12:1e:179:VAL:HG23	13:1f:352:LYS:HB2	2.02	0.41
12:1e:360:GLY:HA2	14:2F:22:PRO:HG3	2.02	0.41
12:1g:5:VAL:HG23	12:1g:130:LEU:HD11	2.03	0.41
12:1g:107:THR:OG1	12:1g:108:GLU:N	2.54	0.41
13:1h:8:HIS:HB3	13:1h:13:GLY:O	2.21	0.41
14:2G:37:PHE:HZ	12:De:87:PRO:HA	1.85	0.41
14:2G:113:VAL:HG23	14:2G:113:VAL:O	2.20	0.41
17:2J:77:UNK:HA	13:Ab:84:ARG:CZ	2.50	0.41
17:2K:57:UNK:CB	13:Bf:84:ARG:HH12	2.34	0.41
21:2O:17:UNK:O	12:6c:360:GLY:HA3	2.21	0.41
24:2U:151:PHE:O	13:Dd:176:GLN:HG3	2.21	0.41
24:2V:135:ARG:HB2	24:2V:136:PRO:HD3	2.01	0.41
24:2V:151:PHE:O	13:Df:176:GLN:NE2	2.36	0.41
25:2X:92:UNK:HA	25:2X:154:UNK:HA	2.02	0.41
12:2a:16:ILE:HD11	12:2a:229:ILE:CG2	2.50	0.41
12:2a:21:TRP:CD1	12:2a:85:PHE:HE1	2.39	0.41
13:2b:246:GLY:N	13:2b:249:ASN:OD1	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2b:248:LEU:HD23	13:2b:248:LEU:HA	1.79	0.41
13:2b:287:SER:O	13:2b:291:ILE:HG12	2.21	0.41
12:2c:97:ALA:O	12:2c:99:ASN:N	2.53	0.41
13:2d:287:SER:O	13:2d:291:ILE:HG12	2.21	0.41
12:2e:86:ARG:HB3	12:2e:88:ASP:OD1	2.21	0.41
13:2f:287:SER:O	13:2f:291:ILE:HG12	2.21	0.41
12:2g:64:ILE:HD13	12:2g:120:VAL:HG22	2.03	0.41
13:2h:287:SER:O	13:2h:291:ILE:HG12	2.21	0.41
29:3E:1191:TRP:CE2	13:5d:112:LYS:HE3	2.56	0.41
30:3F:323:LEU:HD11	30:3F:325:PHE:CZ	2.56	0.41
30:3F:343:LEU:HA	30:3F:343:LEU:HD12	1.78	0.41
30:3G:529:PRO:CB	30:3G:544:LEU:HB2	2.51	0.41
30:3G:722:MET:HE3	30:3G:722:MET:HB3	1.70	0.41
30:3G:747:ARG:HH11	12:6a:401:GLU:HA	1.86	0.41
32:3J:67:ARG:HD3	32:3J:104:THR:HG23	2.03	0.41
32:3J:69:ARG:NH2	13:Ab:400:ALA:O	2.53	0.41
32:3K:243:PHE:HB3	32:3K:246:ALA:HB2	2.02	0.41
32:3K:252:LEU:HD23	32:3K:252:LEU:HA	1.92	0.41
32:3K:356:ASP:OD2	32:3K:359:ARG:NH1	2.54	0.41
34:3M:35:GLN:O	34:3M:39:GLU:HG2	2.21	0.41
34:3M:244:ARG:NE	34:3P:113:GLU:OE1	2.53	0.41
34:3M:320:LEU:HB2	34:3M:411:MET:HE2	2.01	0.41
34:3M:500:TYR:CE2	34:3M:504:LEU:HD11	2.56	0.41
34:3N:354:ALA:O	34:3N:358:GLU:OE1	2.38	0.41
34:3O:288:MET:SD	34:3O:288:MET:N	2.94	0.41
34:3P:302:LEU:O	34:3P:306:VAL:HG23	2.21	0.41
34:3Q:291:LEU:HA	34:3Q:441:LEU:HD13	2.03	0.41
34:3Q:352:LEU:HD11	34:3Q:378:SER:HB3	2.03	0.41
34:3S:64:HIS:HE1	34:3S:426:LEU:HG	1.86	0.41
34:3S:471:ARG:O	34:3S:475:MET:HG2	2.21	0.41
34:3S:488:ARG:NE	34:3S:492:LEU:HD11	2.36	0.41
34:3T:46:ARG:NH2	34:3T:446:GLN:OE1	2.54	0.41
34:3T:255:HIS:HD2	34:3T:474:TRP:CZ2	2.39	0.41
34:3T:372:GLN:HA	34:3T:372:GLN:OE1	2.20	0.41
34:3U:36:ILE:HG13	34:3U:37:ASN:N	2.35	0.41
34:3V:352:LEU:O	34:3V:355:SER:N	2.54	0.41
34:3W:75:GLN:HA	34:3W:415:TYR:CE1	2.55	0.41
34:3W:442:ARG:O	34:3W:446:GLN:HG3	2.20	0.41
34:3X:269:GLY:HA3	34:3X:463:HIS:CE1	2.56	0.41
34:3X:276:GLU:HG2	34:3X:456:LEU:CB	2.49	0.41
34:3X:342:GLN:O	34:3X:343:THR:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3Y:398:ARG:O	34:3Y:401:VAL:N	2.50	0.41
34:3Y:500:TYR:O	34:3Y:504:LEU:HG	2.21	0.41
34:3Z:405:ALA:O	34:3Z:409:GLN:HG2	2.21	0.41
12:3a:374:ILE:HD11	12:3a:422:TYR:CZ	2.56	0.41
13:3b:147:SER:HB2	13:3b:190:SER:HB3	2.01	0.41
13:3b:313:MET:HG3	13:3b:381:SER:HA	2.02	0.41
12:3c:208:TYR:CE1	12:3c:225:LEU:HD11	2.56	0.41
13:3d:52:PHE:HZ	13:3d:239:THR:HG21	1.84	0.41
13:3d:203:MET:HE2	13:3d:267:PHE:HB3	2.03	0.41
13:3d:313:MET:HG3	13:3d:381:SER:HA	2.02	0.41
12:3e:257:LEU:HD23	12:3e:312:THR:HG22	2.03	0.41
12:3e:284:LEU:HD21	12:3e:363:MET:N	2.35	0.41
12:3e:284:LEU:CD2	12:3e:362:LYS:HB2	2.50	0.41
34:4A:33:GLN:HB2	34:4A:34:PHE:H	1.73	0.41
34:4A:270:ILE:HA	34:4A:273:ARG:CD	2.51	0.41
34:4A:396:ALA:O	34:4A:400:LEU:HG	2.21	0.41
34:4B:312:TRP:HZ2	34:4B:415:TYR:O	2.04	0.41
34:4B:482:LEU:HA	34:4B:482:LEU:HD12	1.66	0.41
35:4C:328:PHE:CE2	35:4C:376:ASP:HB3	2.55	0.41
35:4C:376:ASP:HA	35:4C:381:ARG:HD3	2.03	0.41
35:4C:504:VAL:HG13	35:4C:507:ASP:OD2	2.21	0.41
35:4C:1106:MET:CE	37:4E:724:LEU:HD23	2.51	0.41
36:4D:254:PHE:HB3	36:4D:258:ARG:HA	2.01	0.41
37:4E:546:SER:CB	42:5H:112:THR:O	2.69	0.41
37:4E:574:LEU:CD2	43:5L:30:ARG:HH21	2.20	0.41
37:4E:581:LEU:CA	43:5L:31:ASP:C	2.94	0.41
37:4E:588:PRO:C	43:5L:21:PRO:CA	2.89	0.41
37:4E:601:GLU:HG3	37:4E:1776:VAL:HG12	2.02	0.41
37:4E:741:PRO:O	37:4E:745:ILE:HG12	2.21	0.41
37:4E:1313:VAL:HB	38:4O:17:LEU:HD21	2.02	0.41
37:4F:526:ARG:NH2	37:4F:681:GLU:OE2	2.52	0.41
37:4F:536:LEU:O	37:4F:540:VAL:CG2	2.69	0.41
37:4F:780:ASP:OD1	37:4F:782:PRO:HD2	2.21	0.41
37:4F:1073:LEU:HA	37:4F:1073:LEU:HD23	1.16	0.41
37:4F:1136:ARG:NH2	38:4N:29:LYS:CE	2.79	0.41
37:4F:1380:ALA:HB2	37:4F:1399:LEU:HB3	2.02	0.41
37:4F:1532:LEU:HD13	37:4F:1606:PRO:HA	2.02	0.41
37:4F:1725:PRO:O	37:4F:1726:HIS:HB3	2.20	0.41
37:4G:586:PHE:HE1	43:5I:59:LEU:HB3	1.85	0.41
37:4G:617:VAL:HB	37:4G:1704:GLN:HA	2.02	0.41
37:4G:754:ALA:HB2	37:4G:810:VAL:HG11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4G:792:VAL:CG2	37:4G:798:MET:HB3	2.45	0.41
37:4G:819:LEU:HD11	37:4G:869:ARG:HD3	2.03	0.41
37:4G:825:ASP:C	37:4G:826:LEU:HD23	2.45	0.41
37:4G:960:LEU:HD22	38:4L:46:ALA:HB2	2.02	0.41
37:4G:1341:ILE:CD1	38:4L:27:ALA:HB1	2.47	0.41
37:4H:428:VAL:HG22	37:4H:853:VAL:HG11	2.03	0.41
37:4H:428:VAL:HG22	37:4H:853:VAL:CG1	2.51	0.41
37:4H:533:MET:CB	38:4J:62:MET:HE2	2.51	0.41
37:4H:764:LEU:HD23	37:4H:764:LEU:HA	1.85	0.41
37:4H:1130:ALA:CB	38:4M:44:LEU:CA	2.99	0.41
37:4H:1162:VAL:HB	37:4H:1299:ARG:HH12	1.86	0.41
37:4H:1302:ASN:CA	43:5J:122:MET:HE1	2.49	0.41
37:4H:1394:PRO:HG2	37:4H:1399:LEU:HD11	2.03	0.41
38:4J:31:ALA:HA	38:4J:34:ALA:CB	2.51	0.41
38:4J:60:VAL:CB	38:4J:84:LEU:HD23	2.48	0.41
38:4K:31:ALA:HA	38:4K:34:ALA:CB	2.51	0.41
38:4K:68:LEU:CD1	38:4K:80:LEU:HB2	2.31	0.41
38:4L:45:ALA:O	38:4L:47:ALA:N	2.53	0.41
38:4N:45:ALA:O	38:4N:47:ALA:N	2.53	0.41
38:4N:60:VAL:CB	38:4N:84:LEU:HD23	2.48	0.41
38:4O:20:VAL:HB	38:4O:23:THR:HG23	2.03	0.41
39:4Q:52:ARG:HH22	44:5S:124:GLU:HG2	1.85	0.41
39:4Q:65:ARG:HD3	44:5P:48:THR:CG2	2.47	0.41
39:4Q:118:ARG:HD2	52:6Q:1:UNK:H2	1.85	0.41
39:4Q:196:LEU:HD22	39:4Q:200:GLU:OE1	2.21	0.41
39:4R:196:LEU:HD22	39:4R:200:GLU:OE1	2.21	0.41
39:4S:15:LEU:HD22	43:5K:128:MET:SD	2.61	0.41
40:4T:160:THR:O	40:4T:161:THR:C	2.64	0.41
40:4U:160:THR:O	40:4U:161:THR:C	2.64	0.41
40:4U:181:LEU:HG	40:4U:382:ARG:NH1	2.35	0.41
40:4U:196:ALA:HB2	40:4U:382:ARG:HH12	1.85	0.41
40:4U:655:VAL:CG1	40:4U:723:VAL:HG11	2.50	0.41
40:4V:76:ARG:HG2	40:4V:403:TYR:OH	2.20	0.41
40:4V:160:THR:O	40:4V:161:THR:C	2.64	0.41
40:4V:487:LEU:HD12	40:4V:519:LEU:HD23	2.03	0.41
40:4V:731:LYS:HE2	40:4V:731:LYS:HB2	1.88	0.41
12:4a:131:GLN:OE1	12:4a:250:LEU:HD12	2.21	0.41
12:4a:154:LYS:O	12:4a:158:GLU:HG2	2.21	0.41
12:4a:278:SER:OG	12:4a:281:TYR:HB2	2.21	0.41
13:4b:203:MET:HE2	13:4b:267:PHE:HB3	2.03	0.41
13:4b:237:SER:HA	13:4b:320:ARG:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4d:119:LEU:HD11	13:4d:156:ARG:HB3	2.03	0.41
13:4d:287:SER:O	13:4d:291:ILE:HG12	2.21	0.41
12:4e:13:GLY:HA2	12:4e:16:ILE:HG22	2.03	0.41
12:4e:154:LYS:O	12:4e:158:GLU:HG2	2.21	0.41
13:4f:52:PHE:HZ	13:4f:239:THR:HG21	1.85	0.41
12:4g:284:LEU:HD13	12:4g:362:LYS:HB3	2.03	0.41
13:4h:237:SER:HA	13:4h:320:ARG:HD2	2.02	0.41
41:5A:21:GLY:CA	43:5L:187:GLU:C	2.92	0.41
41:5A:116:LEU:H	43:5L:169:LEU:HD11	1.85	0.41
41:5A:139:GLU:O	41:5A:140:GLU:CB	2.66	0.41
42:5E:143:VAL:HA	43:5I:144:TYR:CZ	2.49	0.41
43:5I:47:LYS:O	43:5I:48:THR:C	2.60	0.41
43:5I:52:LEU:HA	43:5I:52:LEU:HD12	1.84	0.41
43:5I:166:ALA:HA	43:5I:167:PRO:HD3	1.78	0.41
43:5I:168:GLU:CD	43:5I:168:GLU:HG3	2.20	0.41
43:5J:15:LEU:HD11	43:5J:73:SER:HB3	2.02	0.41
43:5L:34:ALA:C	43:5L:35:LYS:CD	2.91	0.41
44:5N:27:GLY:HA2	1:0W:368:PRO:HG2	2.03	0.41
44:5Q:103:PHE:CB	44:5Q:139:GLN:HB3	2.51	0.41
12:5a:73:MET:CE	12:5a:92:PHE:HB3	2.48	0.41
12:5a:106:TYR:HE1	12:5a:403:MET:HE1	1.85	0.41
12:5a:256:ASN:ND2	12:5a:350:LYS:HD2	2.36	0.41
12:5a:330:MET:SD	12:5a:349:VAL:HG11	2.60	0.41
12:5a:421:GLU:OE2	12:5a:424:GLN:NE2	2.54	0.41
13:5b:181:VAL:HG22	12:5c:347:ASN:O	2.20	0.41
13:5b:273:ALA:N	13:5b:375:VAL:O	2.48	0.41
12:5c:36:TYR:CE1	12:5c:38:GLY:HA3	2.55	0.41
13:5d:317:LEU:HB3	13:5d:319:TYR:CE1	2.53	0.41
12:5e:112:LEU:O	12:5e:116:VAL:HG13	2.21	0.41
12:5e:386:THR:OG1	12:5e:387:ALA:N	2.54	0.41
13:5f:3:GLU:HA	13:5f:51:THR:HA	2.03	0.41
13:5f:317:LEU:HB3	13:5f:319:TYR:CE1	2.53	0.41
12:5g:344:TRP:CE3	12:5g:345:ILE:HG13	2.56	0.41
13:5h:119:LEU:HD11	13:5h:156:ARG:HB3	2.03	0.41
47:6A:284:LEU:C	47:6A:287:GLY:H	2.29	0.41
47:6A:713:VAL:HG21	47:6A:770:PHE:CD2	2.55	0.41
47:6A:813:VAL:C	47:6A:815:ARG:N	2.78	0.41
47:6A:853:HIS:HB3	47:6A:856:PHE:HB2	2.02	0.41
47:6A:980:LYS:HA	47:6A:983:GLU:OE1	2.21	0.41
47:6A:1303:LEU:HD13	47:6A:1447:GLU:OE1	2.21	0.41
47:6A:1631:ALA:HB2	47:6A:1920:TRP:CZ2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:6A:1908:GLU:HA	47:6A:1911:VAL:CG1	2.49	0.41
47:6B:31:PHE:CE2	47:6B:67:PHE:HZ	2.39	0.41
47:6B:175:PHE:O	47:6B:178:GLU:HB2	2.21	0.41
47:6B:351:ARG:NH1	3:6D:522:GLU:O	2.54	0.41
47:6B:375:LEU:HG	3:6D:936:ILE:HD13	2.03	0.41
47:6B:396:SER:N	3:6D:987:VAL:HG11	2.35	0.41
47:6B:486:TYR:CZ	47:6B:495:PRO:HD3	2.56	0.41
47:6B:713:VAL:HG21	47:6B:770:PHE:CD2	2.55	0.41
47:6B:980:LYS:HA	47:6B:983:GLU:OE1	2.21	0.41
47:6B:1908:GLU:HA	47:6B:1911:VAL:CG1	2.49	0.41
3:6D:102:MET:O	3:6D:106:ILE:HG13	2.21	0.41
3:6D:508:LEU:HD21	3:6D:527:CYS:HB3	2.03	0.41
3:6D:888:SER:HA	3:6D:913:THR:OG1	2.21	0.41
48:6E:47:PHE:CZ	48:6E:85:VAL:HG21	2.56	0.41
48:6E:77:GLY:N	48:6E:99:ASP:HB3	2.35	0.41
48:6E:486:ARG:O	48:6E:489:VAL:HB	2.21	0.41
48:6E:835:GLU:OE1	48:6E:840:ILE:HG22	2.21	0.41
48:6F:235:LEU:HG	48:6F:237:VAL:HG23	2.03	0.41
49:6G:44:PRO:HB2	49:6G:46:GLU:OE1	2.21	0.41
49:6G:117:ILE:HD11	49:6G:148:LEU:HD22	2.01	0.41
49:6G:238:ILE:HD11	49:6G:246:ALA:HB1	2.03	0.41
49:6G:342:GLN:NE2	49:6G:363:ASP:OD2	2.54	0.41
49:6G:351:LEU:HD12	49:6G:351:LEU:HA	1.81	0.41
49:6H:238:ILE:HD11	49:6H:246:ALA:HB1	2.03	0.41
49:6H:249:VAL:HA	49:6H:255:PHE:HA	2.03	0.41
49:6H:342:GLN:NE2	49:6H:363:ASP:OD2	2.54	0.41
49:6I:182:ASN:HD21	49:6I:433:ALA:HB2	1.86	0.41
49:6J:342:GLN:NE2	49:6J:363:ASP:OD2	2.54	0.41
50:6K:89:LYS:HA	50:6K:89:LYS:HD3	1.90	0.41
50:6K:249:ASN:O	50:6K:253:ARG:HG3	2.20	0.41
50:6L:79:PHE:HA	50:6L:84:VAL:HG21	2.03	0.41
50:6L:83:ILE:HD12	50:6L:83:ILE:H	1.86	0.41
51:6M:1253:THR:O	51:6M:1257:MET:HG3	2.20	0.41
51:6M:1586:GLY:HA2	51:6M:1589:LYS:HD3	2.03	0.41
51:6M:1819:GLU:HG3	51:6M:1820:GLU:N	2.35	0.41
51:6M:2172:PRO:HG3	51:6M:2283:VAL:HG13	2.03	0.41
51:6N:1586:GLY:HA2	51:6N:1589:LYS:HD3	2.03	0.41
12:6a:258:ILE:HG23	12:6a:258:ILE:O	2.21	0.41
12:6a:406:MET:SD	12:6a:410:GLU:HG3	2.61	0.41
13:6b:248:LEU:HD23	13:6b:248:LEU:HA	1.79	0.41
13:6b:288:VAL:HG21	13:6b:327:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6e:1:MET:HE2	12:6e:1:MET:HB3	1.86	0.41
12:6e:245:GLN:N	12:6e:355:ASP:OD1	2.54	0.41
13:6h:313:MET:HG3	13:6h:381:SER:HA	2.02	0.41
12:7a:100:ASN:ND2	12:7a:401:GLU:CD	2.78	0.41
12:7a:282:ARG:HE	12:7a:282:ARG:HB3	1.67	0.41
13:7b:33:ASP:OD2	13:7b:35:GLN:NE2	2.53	0.41
13:7b:203:MET:HE2	13:7b:267:PHE:HB3	2.03	0.41
13:7b:392:ASP:OD1	13:7b:425:LEU:HD23	2.21	0.41
13:7d:203:MET:HE2	13:7d:267:PHE:HB3	2.03	0.41
13:7d:248:LEU:HA	13:7d:248:LEU:HD23	1.79	0.41
13:7d:392:ASP:OD1	13:7d:425:LEU:HD23	2.21	0.41
13:7d:406:HIS:ND1	12:7e:261:PRO:HD3	2.36	0.41
13:7d:407:TRP:CD1	12:7e:258:ILE:O	2.74	0.41
12:7e:215:LEU:HB3	12:7e:217:LEU:HD13	2.03	0.41
13:7f:203:MET:C	13:7f:204:LEU:HD12	2.45	0.41
13:7f:334:THR:HA	13:7f:337:THR:HG22	2.03	0.41
13:7h:334:THR:HA	13:7h:337:THR:HG22	2.03	0.41
12:8a:16:ILE:HD13	12:8a:226:ASN:HA	2.02	0.41
12:8a:50:TYR:OH	12:8a:237:THR:OG1	1.92	0.41
13:8b:371:VAL:HG22	13:8b:373:ARG:H	1.85	0.41
13:8d:313:MET:HG3	13:8d:381:SER:HA	2.02	0.41
12:8e:139:LEU:HD21	12:8e:192:LEU:HD11	2.01	0.41
12:8e:207:LEU:O	12:8e:210:ILE:HG12	2.21	0.41
12:8e:326:VAL:O	12:8e:330:MET:HG2	2.21	0.41
13:8f:175:PRO:O	13:8f:394:LYS:NZ	2.46	0.41
12:8g:68:LEU:HB3	12:8g:96:GLY:HA2	2.02	0.41
12:8g:208:TYR:CE1	12:8g:225:LEU:HD11	2.56	0.41
13:8h:145:THR:OG1	54:8h:501:GTP:O3B	2.31	0.41
13:8h:287:SER:O	13:8h:291:ILE:HG12	2.21	0.41
12:9a:164:MET:O	12:9a:166:THR:HG23	2.21	0.41
12:9c:113:ILE:HD12	12:9c:116:VAL:HG21	2.03	0.41
12:9e:164:MET:H	12:9e:197:ASP:CG	2.29	0.41
13:9f:392:ASP:OD1	13:9f:425:LEU:HD23	2.21	0.41
12:9g:75:SER:HA	12:9g:78:SER:OG	2.21	0.41
12:Aa:13:GLY:HA2	12:Aa:16:ILE:HG22	2.03	0.41
12:Aa:328:GLU:O	12:Aa:331:LEU:HG	2.21	0.41
12:Ac:64:ILE:HD13	12:Ac:120:VAL:HG22	2.01	0.41
12:Ac:362:LYS:HG2	12:Ac:363:MET:HG3	2.02	0.41
12:Ac:430:ALA:O	12:Ac:431:GLU:HB2	2.21	0.41
13:Ad:246:GLY:N	13:Ad:249:ASN:OD1	2.43	0.41
13:Ad:288:VAL:HG21	13:Ad:327:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ae:16:ILE:HD11	12:Ae:229:ILE:CG2	2.50	0.41
12:Ae:216:LYS:HB2	12:Ae:275:SER:HB2	2.02	0.41
12:Ae:274:THR:HG21	12:Ae:279:GLN:HA	2.03	0.41
12:Ag:5:VAL:HG23	12:Ag:130:LEU:HD11	2.02	0.41
13:Ah:203:MET:C	13:Ah:204:LEU:HD12	2.45	0.41
12:Ba:3:GLU:HB3	12:Ba:62:ARG:HH21	1.86	0.41
12:Ba:42:LEU:HD13	12:Ba:356:ILE:HD11	2.03	0.41
12:Ba:213:ARG:HD2	12:Ba:297:LYS:HD3	2.03	0.41
13:Bb:317:LEU:HB3	13:Bb:319:TYR:CE1	2.53	0.41
13:Bd:237:SER:HA	13:Bd:320:ARG:HD2	2.02	0.41
13:Bd:288:VAL:HG21	13:Bd:327:ASP:HB3	2.02	0.41
13:Bd:392:ASP:OD1	13:Bd:425:LEU:HD23	2.21	0.41
12:Be:279:GLN:C	12:Be:281:TYR:N	2.77	0.41
13:Bf:313:MET:HG3	13:Bf:381:SER:HA	2.02	0.41
12:Bg:5:VAL:HG23	12:Bg:130:LEU:HD11	2.02	0.41
12:Bg:74:ASP:OD1	12:Bg:77:ARG:NH2	2.53	0.41
12:Bg:248:ALA:CB	12:Bg:252:LYS:HD2	2.50	0.41
13:Bh:203:MET:HE2	13:Bh:267:PHE:HB3	2.03	0.41
13:Bh:288:VAL:HG21	13:Bh:327:ASP:HB3	2.02	0.41
13:Cb:73:THR:HG23	12:Cc:2:ARG:NH2	2.35	0.41
13:Cb:203:MET:C	13:Cb:204:LEU:HD12	2.45	0.41
13:Cb:392:ASP:OD1	13:Cb:425:LEU:HD23	2.21	0.41
12:Cc:97:ALA:O	12:Cc:99:ASN:N	2.53	0.41
12:Cc:150:LEU:O	12:Cc:153:SER:OG	2.34	0.41
12:Cc:343:GLU:HG2	12:Cc:344:TRP:N	2.35	0.41
12:Cc:404:ASP:OD2	12:Cc:405:GLU:N	2.53	0.41
12:Ce:58:ARG:NH2	12:De:281:TYR:CE1	2.88	0.41
13:Cf:203:MET:C	13:Cf:204:LEU:HD12	2.45	0.41
13:Cf:317:LEU:HB3	13:Cf:319:TYR:CE1	2.53	0.41
13:Ch:203:MET:C	13:Ch:204:LEU:HD12	2.45	0.41
13:Ch:334:THR:HA	13:Ch:337:THR:HG22	2.03	0.41
12:Da:1:MET:HG3	12:Da:46:ARG:HH12	1.85	0.41
12:Da:68:LEU:HD23	12:Da:143:THR:HG23	2.02	0.41
12:Da:102:ALA:HB2	12:Da:398:TYR:CD2	2.55	0.41
13:Db:119:LEU:HD11	13:Db:156:ARG:HB3	2.03	0.41
13:Db:237:SER:HA	13:Db:320:ARG:HD2	2.01	0.41
13:Db:287:SER:O	13:Db:291:ILE:HG12	2.21	0.41
13:Dd:119:LEU:HD11	13:Dd:156:ARG:HB3	2.03	0.41
13:Dd:237:SER:HA	13:Dd:320:ARG:HD2	2.02	0.41
12:De:284:LEU:HD12	12:De:289:LEU:HD11	2.02	0.41
12:De:321:MET:HE3	12:De:321:MET:HB2	1.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:De:324:LYS:O	12:De:328:GLU:HB3	2.20	0.41
13:Df:119:LEU:HD11	13:Df:156:ARG:HB3	2.03	0.41
12:Dg:179:VAL:O	12:Dg:388:MET:HE1	2.21	0.41
13:Dh:119:LEU:HD11	13:Dh:156:ARG:HB3	2.03	0.41
1:0J:52:ASP:HB3	1:0J:58:GLN:CG	2.49	0.41
1:0J:89:VAL:HA	1:0J:92:LEU:HD12	2.02	0.41
1:0J:215:ALA:HB3	1:0J:216:PRO:HD3	2.03	0.41
1:0J:319:TYR:O	1:0J:323:PHE:CD2	2.74	0.41
1:0W:138:ASP:O	1:0W:142:LYS:HE2	2.20	0.41
1:0W:338:PRO:HB2	1:0W:339:PRO:HD3	2.03	0.41
1:0I:17:ARG:O	1:0I:21:VAL:HG22	2.21	0.41
1:0I:149:LEU:HD23	1:0I:149:LEU:HA	1.86	0.41
1:0K:122:ILE:CD1	1:0K:127:LEU:HD21	2.51	0.41
1:0B:108:ARG:HH22	1:0B:144:ALA:HB1	1.86	0.41
1:0B:298:LEU:HD23	1:0B:298:LEU:HA	1.89	0.41
1:0D:138:ASP:HA	1:0D:139:PRO:HD3	1.96	0.41
1:0D:347:GLU:HA	1:0D:348:PRO:HD3	1.96	0.41
1:0E:213:TYR:C	1:0E:216:PRO:HD2	2.46	0.41
1:0F:12:ARG:O	1:0F:16:GLU:HG2	2.21	0.41
1:0F:159:LEU:O	1:0F:163:VAL:HG23	2.20	0.41
1:0G:34:ILE:HD13	1:0G:71:TYR:HB2	2.03	0.41
1:0G:44:ALA:O	1:0G:48:PRO:HD3	2.21	0.41
1:0N:79:VAL:HG13	1:0N:84:ILE:HB	2.02	0.41
1:0N:401:ARG:O	1:0N:405:LYS:HG2	2.21	0.41
1:0O:47:ARG:HB2	1:0O:84:ILE:HG12	2.03	0.41
1:0P:276:ARG:HA	1:0P:316:ALA:HB2	2.03	0.41
1:0R:83:GLU:C	1:0R:86:PRO:HD2	2.46	0.41
1:0R:358:TRP:CD1	1:0R:362:GLN:NE2	2.89	0.41
1:0T:156:ASN:HD21	1:0T:159:LEU:HD13	1.86	0.41
1:0U:12:ARG:O	1:0U:16:GLU:HG2	2.21	0.41
1:0U:87:GLN:HA	1:0U:90:TYR:CD2	2.55	0.41
1:0U:251:GLU:OE2	1:0U:254:PRO:HD3	2.21	0.41
1:0X:328:ALA:HA	1:0X:331:VAL:HG12	2.02	0.41
1:0X:417:LEU:O	1:0X:421:VAL:HG23	2.21	0.41
1:0Y:338:PRO:HB2	1:0Y:339:PRO:HD3	2.02	0.41
1:0Y:385:SER:O	1:0Y:388:SER:OG	2.32	0.41
1:0Z:371:ALA:HB1	1:0Z:407:VAL:HG13	2.03	0.41
2:1D:240:VAL:HA	2:1D:250:ARG:HG2	2.03	0.41
2:1E:240:VAL:HA	2:1E:250:ARG:HG2	2.03	0.41
2:1F:110:LEU:O	2:1F:113:SER:OG	2.34	0.41
2:1F:147:MET:HE1	2:1F:183:ILE:HG12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1G:179:HIS:O	2:1G:183:ILE:HG13	2.20	0.41
3:1H:841:SER:HB2	3:1H:937:MET:HB3	2.01	0.41
3:1H:868:SER:OG	3:1H:873:GLN:N	2.48	0.41
3:1I:854:LEU:HD12	3:1I:953:ILE:HG23	2.03	0.41
3:1I:860:HIS:HB2	3:1I:861:PRO:HD3	2.03	0.41
3:1I:874:THR:O	3:1I:877:HIS:N	2.54	0.41
4:1J:82:ILE:HG23	4:1J:178:ARG:NH2	2.35	0.41
4:1J:231:ALA:HB1	4:1J:235:PHE:O	2.21	0.41
4:1K:82:ILE:HG23	4:1K:178:ARG:NH2	2.35	0.41
4:1K:231:ALA:HB1	4:1K:235:PHE:O	2.21	0.41
6:1N:1917:LEU:HB2	6:1N:1965:VAL:HG13	2.03	0.41
6:1N:2209:LEU:HD13	6:1N:2215:ASN:HB2	2.03	0.41
6:1N:2535:LEU:HD13	6:1N:2648:ALA:HB3	2.03	0.41
7:1O:208:VAL:HG11	8:1P:906:LYS:O	2.21	0.41
10:1R:110:PHE:CZ	12:9c:402:GLY:HA3	2.56	0.41
10:1S:57:LYS:H	13:Ah:339:ARG:HH22	1.67	0.41
10:1S:116:THR:N	10:1S:117:PRO:HD2	2.36	0.41
10:1S:384:GLU:OE1	13:Bf:390:ARG:NH1	2.54	0.41
12:1a:86:ARG:HD3	12:1a:88:ASP:OD1	2.20	0.41
12:1c:21:TRP:CE3	12:1c:61:PRO:HB3	2.56	0.41
13:1d:8:HIS:HB3	13:1d:13:GLY:O	2.21	0.41
13:1d:90:GLU:OE1	13:1d:121:ARG:NE	2.44	0.41
13:1f:8:HIS:HB3	13:1f:13:GLY:O	2.21	0.41
13:1f:11:GLN:NE2	12:1g:244:GLY:O	2.54	0.41
12:1g:281:TYR:CE1	13:Dd:60:LYS:NZ	2.88	0.41
13:1h:282:TYR:HB2	12:De:55:THR:OG1	2.21	0.41
15:2H:64:UNK:O	12:Bg:92:PHE:CZ	2.73	0.41
22:2P:51:UNK:O	13:5f:123:ARG:CZ	2.69	0.41
24:2V:131:CYS:CB	24:2V:134:VAL:HB	2.47	0.41
24:2V:198:PHE:CE2	24:2V:202:ARG:HD2	2.56	0.41
13:2d:203:MET:C	13:2d:204:LEU:HD12	2.45	0.41
13:2f:222:PRO:HD2	12:2g:324:LYS:CG	2.46	0.41
30:3G:722:MET:SD	13:6b:108:TYR:O	2.79	0.41
31:3H:108:ARG:O	31:3H:112:VAL:HG23	2.21	0.41
31:3I:247:ARG:HD3	32:3K:255:THR:HG21	2.02	0.41
32:3J:51:LEU:HG	32:3J:66:LEU:HD12	2.03	0.41
32:3J:58:LEU:CD1	32:3J:116:TYR:CE2	3.03	0.41
32:3J:401:GLN:HE21	32:3J:407:ARG:HB2	1.85	0.41
32:3K:114:THR:OG1	32:3K:115:GLN:N	2.53	0.41
32:3K:143:ASN:ND2	32:3K:169:GLU:OE2	2.53	0.41
32:3K:315:GLN:HB3	32:3K:319:LYS:NZ	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3M:202:ALA:O	34:3M:205:SER:OG	2.31	0.41
34:3N:75:GLN:NE2	34:3N:419:LEU:HD23	2.35	0.41
34:3N:334:LEU:HD11	34:3N:393:ALA:O	2.21	0.41
34:3P:276:GLU:HG3	34:3P:452:HIS:CD2	2.56	0.41
34:3Q:342:GLN:OE1	34:3Q:386:HIS:NE2	2.50	0.41
34:3Q:394:GLU:O	34:3Q:398:ARG:HG2	2.21	0.41
34:3S:433:TYR:HD1	34:3S:434:ASP:OD2	2.04	0.41
34:3W:74:LEU:HD23	34:3W:74:LEU:HA	1.52	0.41
34:3W:118:HIS:HB2	34:3W:353:LEU:CD2	2.51	0.41
34:3W:312:TRP:HZ2	34:3W:415:TYR:O	2.04	0.41
34:3X:33:GLN:HE22	34:4A:94:THR:HG21	1.86	0.41
34:3Y:272:ALA:O	34:3Y:276:GLU:HG2	2.21	0.41
34:3Z:103:LEU:HD13	34:3Z:342:GLN:NE2	2.35	0.41
12:3a:396:HIS:CD2	13:3b:261:PRO:O	2.73	0.41
13:3f:119:LEU:HD11	13:3f:156:ARG:HB3	2.03	0.41
13:3f:147:SER:HB2	13:3f:190:SER:HB3	2.01	0.41
13:3f:224:TYR:CZ	12:3g:323:THR:HG21	2.56	0.41
34:4B:117:ARG:O	34:4B:121:LEU:HG	2.20	0.41
34:4B:118:HIS:HB2	34:4B:353:LEU:CD2	2.51	0.41
35:4C:339:LEU:HD23	35:4C:339:LEU:HA	1.83	0.41
35:4C:784:LEU:HD11	37:4E:1766:VAL:CG2	2.51	0.41
36:4D:261:VAL:HG11	36:4D:290:PHE:CE2	2.56	0.41
37:4E:588:PRO:HG2	43:5L:21:PRO:CB	2.51	0.41
37:4E:1173:LEU:HD12	37:4E:1204:LYS:CB	2.51	0.41
37:4F:507:PRO:HA	37:4F:508:PRO:HD3	1.92	0.41
37:4F:934:TRP:CD1	37:4F:1463:CYS:SG	3.14	0.41
37:4F:1341:ILE:HG13	38:4N:34:ALA:N	2.36	0.41
37:4G:1394:PRO:HG2	37:4G:1399:LEU:HD11	2.03	0.41
37:4G:1476:LEU:HD22	37:4G:1480:ALA:HB1	2.03	0.41
37:4G:1489:LYS:HA	37:4G:1489:LYS:HD3	1.85	0.41
37:4H:1074:GLN:CA	38:4M:38:VAL:HG11	2.45	0.41
38:4I:64:GLY:O	38:4I:65:MET:C	2.64	0.41
38:4L:60:VAL:CG1	38:4L:87:HIS:HB2	2.36	0.41
39:4S:16:ILE:HG12	43:5K:128:MET:HE1	2.03	0.41
39:4S:196:LEU:HD22	39:4S:200:GLU:OE1	2.21	0.41
40:4T:196:ALA:HB2	40:4T:382:ARG:HH12	1.85	0.41
40:4T:334:ALA:HA	40:4T:337:MET:HE2	2.03	0.41
40:4U:334:ALA:HA	40:4U:337:MET:HE2	2.03	0.41
40:4V:334:ALA:HA	40:4V:337:MET:HE2	2.02	0.41
12:4a:16:ILE:HD11	12:4a:229:ILE:CG2	2.50	0.41
12:4a:208:TYR:HA	12:4a:211:CYS:SG	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:4a:271:THR:CG2	12:4a:365:ALA:HB3	2.51	0.41
13:4b:392:ASP:OD1	13:4b:425:LEU:HD23	2.21	0.41
13:4d:52:PHE:HZ	13:4d:239:THR:HG21	1.85	0.41
13:4d:203:MET:HE2	13:4d:267:PHE:HB3	2.03	0.41
13:4d:334:THR:HA	13:4d:337:THR:HG22	2.03	0.41
12:4e:395:LEU:HD21	12:4e:405:GLU:HG2	2.03	0.41
13:4f:203:MET:HE2	13:4f:267:PHE:HB3	2.03	0.41
13:4f:334:THR:HA	13:4f:337:THR:HG22	2.03	0.41
12:4g:75:SER:HA	12:4g:78:SER:OG	2.21	0.41
13:4h:52:PHE:HZ	13:4h:239:THR:HG21	1.84	0.41
13:4h:392:ASP:OD1	13:4h:425:LEU:HD23	2.21	0.41
41:5A:142:ARG:CB	43:5L:167:PRO:HG3	2.51	0.41
42:5H:139:LEU:CB	43:5L:145:SER:CB	2.95	0.41
43:5J:47:LYS:O	43:5J:48:THR:C	2.61	0.41
43:5L:15:LEU:HD11	43:5L:73:SER:HB3	2.02	0.41
43:5L:55:TYR:CG	43:5L:76:PHE:CE2	3.09	0.41
44:5T:94:LYS:HA	44:5T:97:ASP:OD1	2.21	0.41
12:5a:102:ALA:HB2	12:5a:398:TYR:CD2	2.56	0.41
12:5a:257:LEU:HB3	12:5a:266:PHE:CE1	2.56	0.41
13:5d:3:GLU:HA	13:5d:51:THR:HA	2.03	0.41
13:5d:288:VAL:HG21	13:5d:327:ASP:HB3	2.02	0.41
12:5e:171:PRO:HA	12:5e:181:GLU:OE2	2.21	0.41
12:5e:401:GLU:CD	12:5e:401:GLU:O	2.64	0.41
13:5h:179:THR:OG1	54:5h:501:GTP:O3'	2.37	0.41
47:6A:31:PHE:CE2	47:6A:67:PHE:HZ	2.39	0.41
47:6A:175:PHE:O	47:6A:178:GLU:HB2	2.21	0.41
47:6B:853:HIS:HB3	47:6B:856:PHE:HB2	2.02	0.41
3:6D:625:ALA:O	3:6D:629:TRP:HD1	2.04	0.41
3:6D:983:ARG:O	3:6D:987:VAL:HG23	2.21	0.41
48:6E:235:LEU:HG	48:6E:237:VAL:HG23	2.03	0.41
48:6E:520:GLN:O	48:6E:524:ILE:HG13	2.21	0.41
48:6F:47:PHE:CZ	48:6F:85:VAL:HG21	2.56	0.41
48:6F:800:LEU:HD21	48:6F:812:LEU:HG	2.02	0.41
48:6F:835:GLU:OE1	48:6F:840:ILE:HG22	2.21	0.41
49:6H:44:PRO:HB2	49:6H:46:GLU:OE1	2.21	0.41
49:6I:44:PRO:HB2	49:6I:46:GLU:OE1	2.21	0.41
49:6I:278:TYR:HB3	49:6I:281:LYS:HE2	2.03	0.41
49:6I:342:GLN:NE2	49:6I:363:ASP:OD2	2.54	0.41
49:6J:278:TYR:HB3	49:6J:281:LYS:HE2	2.04	0.41
49:6J:285:GLY:HA2	49:6J:333:VAL:CG2	2.48	0.41
50:6K:8:ILE:CG2	50:6K:143:VAL:HG21	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:6K:51:LEU:HD12	50:6K:59:GLN:HG3	2.02	0.41
50:6L:249:ASN:O	50:6L:253:ARG:HG3	2.20	0.41
50:6L:515:ARG:HA	50:6L:515:ARG:HD2	1.83	0.41
51:6N:1895:PRO:HA	51:6N:1896:PRO:HD3	1.97	0.41
13:6b:203:MET:C	13:6b:204:LEU:HD12	2.45	0.41
12:6c:117:LEU:HB3	12:6c:121:ARG:HH12	1.86	0.41
12:6c:202:LEU:HD23	12:6c:300:MET:HE2	2.03	0.41
12:6c:207:LEU:HD21	12:6c:300:MET:HB3	2.03	0.41
13:6d:203:MET:C	13:6d:204:LEU:HD12	2.45	0.41
13:7b:288:VAL:HG21	13:7b:327:ASP:HB3	2.02	0.41
12:7e:73:MET:CE	12:7e:92:PHE:HB3	2.49	0.41
13:7f:203:MET:HE2	13:7f:267:PHE:HB3	2.03	0.41
13:7f:288:VAL:HG21	13:7f:327:ASP:HB3	2.02	0.41
13:7f:392:ASP:OD1	13:7f:425:LEU:HD23	2.21	0.41
12:7g:150:LEU:O	12:7g:153:SER:OG	2.32	0.41
13:7h:237:SER:HA	13:7h:320:ARG:HD2	2.02	0.41
12:8a:52:ASN:HB3	12:8a:60:VAL:CG2	2.51	0.41
12:8a:170:VAL:HB	12:8a:203:ASP:OD1	2.20	0.41
13:8b:288:VAL:HG21	13:8b:327:ASP:HB3	2.02	0.41
12:8c:208:TYR:CE1	12:8c:225:LEU:HD11	2.56	0.41
12:8g:66:MET:HA	12:8g:91:VAL:HG13	2.03	0.41
13:8h:119:LEU:HD11	13:8h:156:ARG:HB3	2.03	0.41
13:8h:237:SER:HA	13:8h:320:ARG:HD2	2.02	0.41
13:8h:288:VAL:HG21	13:8h:327:ASP:HB3	2.02	0.41
13:8h:392:ASP:OD1	13:8h:425:LEU:HD23	2.21	0.41
12:9c:130:LEU:O	12:9c:162:ARG:NE	2.54	0.41
13:9d:392:ASP:OD1	13:9d:425:LEU:HD23	2.21	0.41
12:9e:86:ARG:HG2	12:9e:88:ASP:CG	2.45	0.41
13:9h:392:ASP:OD1	13:9h:425:LEU:HD23	2.21	0.41
13:Ab:203:MET:HE2	13:Ab:267:PHE:HB3	2.03	0.41
13:Ab:392:ASP:OD1	13:Ab:425:LEU:HD23	2.21	0.41
12:Ac:211:CYS:SG	12:Ac:217:LEU:HD22	2.61	0.41
12:Ae:102:ALA:HB2	12:Ae:398:TYR:CD2	2.57	0.41
12:Ae:154:LYS:O	12:Ae:158:GLU:HG2	2.21	0.41
12:Ae:209:ASP:CG	12:Ae:213:ARG:HH21	2.28	0.41
13:Af:406:HIS:CD2	12:Ag:261:PRO:HD3	2.56	0.41
12:Ba:16:ILE:HD11	12:Ba:229:ILE:CG2	2.51	0.41
12:Ba:222:PHE:CZ	13:Bb:325:PRO:HB3	2.56	0.41
13:Bd:203:MET:HE2	13:Bd:267:PHE:HB3	2.03	0.41
13:Bh:206:ASN:OD1	54:Bh:501:GTP:N2	2.49	0.41
13:Bh:392:ASP:OD1	13:Bh:425:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ca:237:THR:H	12:Ca:237:THR:HG22	1.65	0.41
12:Ca:374:ILE:HD11	12:Ca:422:TYR:CZ	2.56	0.41
13:Cb:248:LEU:HD23	13:Cb:248:LEU:HA	1.79	0.41
13:Cb:317:LEU:HB3	13:Cb:319:TYR:CE1	2.53	0.41
12:Cc:185:ALA:O	12:Cc:189:VAL:HG13	2.20	0.41
13:Cd:145:THR:OG1	54:Cd:501:GTP:O3B	2.31	0.41
13:Cd:317:LEU:HB3	13:Cd:319:TYR:CE1	2.53	0.41
13:Cd:334:THR:HA	13:Cd:337:THR:HG22	2.03	0.41
13:Cd:392:ASP:OD1	13:Cd:425:LEU:HD23	2.21	0.41
12:Ce:11:GLN:HA	12:Ce:72:THR:HG21	2.02	0.41
13:Cf:392:ASP:OD1	13:Cf:425:LEU:HD23	2.21	0.41
12:Da:106:TYR:HE1	12:Da:403:MET:HE1	1.85	0.41
12:Da:154:LYS:O	12:Da:158:GLU:HG2	2.21	0.41
12:Da:208:TYR:OH	13:Db:325:PRO:HB2	2.21	0.41
12:Da:285:THR:HB	12:Da:287:PRO:HD2	2.03	0.41
12:De:16:ILE:HD11	12:De:229:ILE:CG2	2.51	0.41
12:De:68:LEU:HD23	12:De:143:THR:HG23	2.02	0.41
12:De:139:LEU:HD22	12:De:188:SER:OG	2.21	0.41
1:0H:91:SER:CB	1:0H:103:ALA:HB2	2.51	0.41
1:0J:45:LEU:C	1:0J:48:PRO:HD2	2.46	0.41
1:0W:44:ALA:O	1:0W:48:PRO:HD3	2.21	0.41
1:0I:97:ARG:HD2	1:0I:138:ASP:OD2	2.21	0.41
1:0I:227:ARG:HG2	1:0I:267:VAL:HG13	2.03	0.41
1:0I:268:LYS:O	1:0I:271:SER:OG	2.31	0.41
1:0K:87:GLN:HA	1:0K:90:TYR:CD2	2.56	0.41
1:0K:269:LYS:O	1:0K:273:THR:HG23	2.21	0.41
1:0A:192:SER:OG	1:0A:232:ALA:N	2.54	0.40
1:0A:269:LYS:HE2	1:0A:269:LYS:HB3	1.87	0.40
1:0A:290:VAL:HG22	1:0A:295:VAL:HG21	2.03	0.40
1:0B:290:VAL:HG21	1:0B:327:LEU:HD23	2.04	0.40
1:0B:302:ILE:HG23	1:0B:310:ARG:HE	1.86	0.40
1:0D:175:CYS:HB2	1:0D:187:ALA:HB2	2.02	0.40
1:0E:47:ARG:CG	1:0E:84:ILE:HG12	2.50	0.40
1:0E:295:VAL:HG23	1:0E:334:GLU:HG3	2.03	0.40
1:0E:418:ASP:O	1:0E:421:VAL:HG22	2.21	0.40
1:0F:112:ARG:NH2	1:0F:113:HIS:NE2	2.69	0.40
1:0G:163:VAL:O	1:0G:168:ALA:HB2	2.21	0.40
1:0L:92:LEU:HD11	1:0L:107:LEU:HD11	2.02	0.40
1:0L:365:ARG:HG3	1:0L:406:SER:OG	2.21	0.40
1:0M:248:VAL:HG12	1:0M:253:PHE:CZ	2.56	0.40
1:0N:85:LEU:HB3	1:0N:86:PRO:HD3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0N:91:SER:HB3	1:0N:103:ALA:HB2	2.02	0.40
1:0N:344:LEU:HD11	1:0N:360:LEU:HD11	2.03	0.40
1:0Q:97:ARG:HD2	1:0Q:138:ASP:OD2	2.21	0.40
1:0Q:227:ARG:HG2	1:0Q:267:VAL:HG13	2.03	0.40
1:0Q:302:ILE:HG23	1:0Q:310:ARG:HE	1.85	0.40
1:0Q:320:ILE:HB	1:0Q:327:LEU:HD13	2.03	0.40
1:0S:382:THR:O	1:0S:386:LEU:HG	2.21	0.40
1:0T:137:PHE:HE1	5:1L:91:THR:HA	1.81	0.40
1:0T:213:TYR:O	1:0T:216:PRO:HD2	2.21	0.40
1:0V:182:SER:HA	1:0V:185:ARG:NE	2.36	0.40
1:0X:76:ALA:HB3	1:0X:117:LEU:HD13	2.04	0.40
1:0Y:282:THR:HB	1:0Y:284:GLU:OE2	2.22	0.40
1:0Z:47:ARG:CG	1:0Z:84:ILE:HG12	2.50	0.40
1:0Z:350:ASP:OD1	1:0Z:392:SER:HB3	2.21	0.40
1:1B:45:LEU:C	1:1B:48:PRO:HD2	2.46	0.40
1:1B:52:ASP:HB3	1:1B:58:GLN:CG	2.49	0.40
1:1C:122:ILE:CD1	1:1C:127:LEU:HD21	2.51	0.40
1:1C:260:LEU:HD22	1:1C:297:ALA:HB1	2.03	0.40
2:1D:49:GLN:CG	2:1D:51:VAL:HG22	2.51	0.40
2:1E:343:LEU:O	2:1E:347:LEU:HG	2.21	0.40
3:1H:504:LEU:HD13	3:1H:531:MET:HG2	2.03	0.40
4:1J:408:ASN:HA	4:1J:426:VAL:HA	2.02	0.40
6:1N:2323:LEU:HG	6:1N:2480:LEU:HD22	2.02	0.40
7:1O:909:VAL:CG2	7:1O:1012:THR:HG23	2.51	0.40
7:1O:3060:SER:O	7:1O:3064:LEU:HG	2.21	0.40
9:1Q:830:LYS:HA	9:1Q:850:ALA:HA	2.03	0.40
10:1R:155:THR:OG1	10:1R:158:SER:HB3	2.21	0.40
10:1R:375:GLU:OE2	13:Ab:90:GLU:HG2	2.22	0.40
10:1R:380:LYS:O	13:Bb:214:ARG:NH2	2.54	0.40
10:1S:42:GLU:N	10:1S:46:ILE:HD13	2.36	0.40
10:1S:50:ILE:HG22	10:1S:56:TRP:HB3	2.03	0.40
10:1S:66:CYS:O	10:1S:70:LEU:HG	2.21	0.40
10:1S:119:TRP:CZ3	10:1S:122:LEU:HD23	2.56	0.40
12:1a:98:GLY:C	13:1b:254:GLU:HG2	2.46	0.40
13:1b:8:HIS:HB3	13:1b:13:GLY:O	2.21	0.40
13:1b:179:THR:OG1	54:1b:501:GTP:O3'	2.37	0.40
12:1e:257:LEU:HD23	12:1e:312:THR:HG22	2.02	0.40
12:1g:391:ARG:NH2	13:1h:438:GLU:O	2.54	0.40
18:2L:52:UNK:CB	13:5d:26:LEU:HD23	2.50	0.40
23:2Q:78:UNK:HA	12:3e:209:ASP:OD2	2.21	0.40
24:2T:164:VAL:HG21	13:Dh:309:HIS:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2U:172:HIS:CD2	24:2U:176:LYS:NZ	2.89	0.40
12:2a:45:GLU:HG3	12:2a:46:ARG:HG2	2.04	0.40
12:2a:326:VAL:O	12:2a:330:MET:HG2	2.20	0.40
13:2b:145:THR:OG1	54:2b:501:GTP:O3B	2.31	0.40
13:2b:210:TYR:CE1	12:2c:324:LYS:HB2	2.55	0.40
12:2c:208:TYR:CE1	12:2c:225:LEU:HD11	2.57	0.40
12:2c:384:GLN:NE2	13:2d:349:THR:HG22	2.36	0.40
13:2f:334:THR:HA	13:2f:337:THR:HG22	2.03	0.40
13:2f:392:ASP:OD1	13:2f:425:LEU:HD23	2.21	0.40
13:2h:334:THR:HA	13:2h:337:THR:HG22	2.03	0.40
30:3F:353:ALA:HB2	12:7g:160:PRO:HG2	2.03	0.40
30:3G:539:LEU:HD22	30:3G:540:GLU:OE2	2.20	0.40
31:3I:144:ILE:HG21	31:3I:144:ILE:HD13	1.87	0.40
31:3I:261:ALA:HA	32:3K:321:LEU:HD21	2.03	0.40
33:3L:28:LEU:HB2	33:3L:47:LEU:CD1	2.50	0.40
34:3M:52:GLN:O	34:3M:56:TYR:HD2	2.04	0.40
34:3P:305:CYS:HB2	34:3P:426:LEU:HD13	2.03	0.40
34:3P:419:LEU:O	34:3P:419:LEU:HG	2.21	0.40
34:3U:366:VAL:HG13	34:3U:367:GLY:N	2.36	0.40
34:3V:80:LEU:HD13	34:3Z:44:LYS:HA	2.03	0.40
34:3W:55:GLN:HG2	34:3Y:66:LYS:HG3	2.03	0.40
34:3Y:258:TYR:CG	34:3Y:474:TRP:HD1	2.39	0.40
12:3a:172:SER:HB3	12:3a:205:GLU:CG	2.51	0.40
13:3b:56:THR:HG21	13:4b:283:HIS:O	2.22	0.40
13:3d:90:GLU:OE1	13:3d:121:ARG:NE	2.44	0.40
12:3g:176:SER:OG	13:3h:349:THR:HB	2.22	0.40
12:3g:256:ASN:ND2	12:3g:350:LYS:HE3	2.36	0.40
13:3h:119:LEU:HD11	13:3h:156:ARG:HB3	2.03	0.40
34:4A:352:LEU:CD1	34:4A:382:LEU:HD11	2.50	0.40
34:4B:75:GLN:HG2	34:4B:419:LEU:HD22	2.03	0.40
35:4C:396:THR:HG21	35:4C:421:MET:HE2	2.03	0.40
35:4C:515:GLY:HA3	37:4E:1731:MET:HE2	2.03	0.40
35:4C:532:CYS:SG	35:4C:536:ALA:HB3	2.62	0.40
35:4C:532:CYS:SG	35:4C:533:ALA:N	2.94	0.40
36:4D:43:PHE:CE1	36:4D:108:LYS:HE2	2.56	0.40
37:4E:536:LEU:O	37:4E:540:VAL:HG23	2.21	0.40
37:4E:542:ARG:HD2	42:5H:111:GLY:N	2.36	0.40
37:4E:757:LEU:HD11	37:4E:801:VAL:HG12	2.03	0.40
37:4E:1690:GLU:O	37:4E:1691:GLU:C	2.64	0.40
37:4F:511:ASN:HD22	37:4F:554:THR:HB	1.85	0.40
37:4F:574:LEU:CD2	42:5G:130:ALA:HB2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:956:ALA:HA	37:4F:957:PRO:HD3	1.95	0.40
37:4F:1083:ILE:HG21	37:4F:1358:LEU:HD12	2.03	0.40
37:4F:1094:ALA:HA	37:4F:1095:PRO:HD3	1.45	0.40
37:4F:1324:THR:HA	38:4N:26:GLU:OE2	2.21	0.40
37:4F:1476:LEU:HD22	37:4F:1480:ALA:HB1	2.03	0.40
37:4G:821:SER:HB2	37:4G:899:PRO:HG2	2.03	0.40
37:4G:871:ALA:HB2	37:4G:885:MET:SD	2.61	0.40
37:4G:1092:LEU:HD12	37:4G:1135:PHE:CD2	2.56	0.40
37:4H:429:TYR:O	37:4H:854:TYR:CD1	2.71	0.40
37:4H:431:ALA:HB3	38:4M:82:TYR:O	2.21	0.40
37:4H:552:ASP:CG	37:4H:555:GLU:HG2	2.45	0.40
37:4H:1476:LEU:HD22	37:4H:1480:ALA:HB1	2.03	0.40
38:4I:29:LYS:HA	38:4I:32:GLU:HB2	2.03	0.40
38:4O:65:MET:CE	38:4P:53:LEU:HD12	2.51	0.40
38:4P:40:LYS:H	38:4P:40:LYS:HG2	1.62	0.40
39:4Q:42:SER:CB	44:5S:48:THR:HG22	2.49	0.40
39:4R:36:ALA:HB1	44:5T:92:ALA:HB1	2.02	0.40
40:4T:487:LEU:HD12	40:4T:519:LEU:HD23	2.03	0.40
40:4T:822:TRP:CZ3	40:4T:826:ALA:CB	3.04	0.40
40:4V:50:LEU:HG	40:4V:77:VAL:CG2	2.51	0.40
40:4V:251:LEU:HD23	40:4V:258:LEU:HD22	2.03	0.40
40:4V:730:ARG:HH21	40:4V:818:MET:HB3	1.86	0.40
12:4a:20:PHE:CA	12:4a:230:SER:HB2	2.46	0.40
12:4a:257:LEU:HB3	12:4a:266:PHE:HE1	1.86	0.40
13:4d:296:PHE:HZ	13:4d:351:PHE:HE1	1.70	0.40
13:4f:237:SER:HA	13:4f:320:ARG:HD2	2.02	0.40
13:4f:371:VAL:HG22	13:4f:373:ARG:H	1.85	0.40
13:4f:392:ASP:OD1	13:4f:425:LEU:HD23	2.21	0.40
13:4h:371:VAL:HG22	13:4h:373:ARG:H	1.85	0.40
41:5C:27:TYR:N	41:5C:31:ALA:O	2.42	0.40
41:5D:138:TRP:HA	41:5D:143:MET:HA	2.03	0.40
42:5E:155:ALA:O	43:5I:154:ALA:N	2.51	0.40
43:5K:35:LYS:NZ	43:5K:42:TYR:OH	2.29	0.40
43:5K:55:TYR:CG	43:5K:76:PHE:CE2	3.09	0.40
44:5R:56:ILE:HA	44:5R:59:VAL:HG12	2.02	0.40
44:5R:112:VAL:HA	44:5R:116:LEU:HD12	2.02	0.40
44:5S:69:PHE:N	44:5S:70:PRO:HD2	2.36	0.40
44:5U:32:THR:HG1	44:5U:35:GLU:HG2	1.86	0.40
13:5b:3:GLU:HA	13:5b:51:THR:HA	2.03	0.40
13:5b:119:LEU:HD11	13:5b:156:ARG:HB3	2.03	0.40
12:5c:208:TYR:CE1	12:5c:225:LEU:HD11	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5c:317:PHE:HB3	12:5c:321:MET:CE	2.44	0.40
12:5e:106:TYR:HE1	12:5e:403:MET:HE1	1.85	0.40
13:5h:288:VAL:HG21	13:5h:327:ASP:HB3	2.02	0.40
47:6A:289:GLN:O	47:6A:289:GLN:HG3	2.20	0.40
47:6A:782:ARG:HG3	47:6A:788:ASP:OD1	2.21	0.40
47:6A:1164:LEU:CD1	47:6A:1309:HIS:HB3	2.51	0.40
47:6B:251:LEU:HD23	47:6B:251:LEU:HA	1.84	0.40
47:6B:395:VAL:CG1	3:6D:987:VAL:HB	2.51	0.40
47:6B:780:LEU:HD23	47:6B:780:LEU:HA	1.68	0.40
47:6B:813:VAL:C	47:6B:815:ARG:N	2.78	0.40
47:6B:1289:VAL:HG12	47:6B:1334:ALA:CB	2.48	0.40
47:6B:1303:LEU:HD13	47:6B:1447:GLU:OE1	2.21	0.40
48:6E:906:ALA:HA	48:6E:917:THR:OG1	2.21	0.40
48:6F:251:LEU:HD21	48:6F:257:LEU:HD22	2.02	0.40
48:6F:1022:GLN:HE22	50:6L:399:LEU:HD23	1.85	0.40
49:6G:88:HIS:CB	49:6G:366:VAL:HG21	2.51	0.40
49:6H:299:MET:HB3	49:6H:299:MET:HE2	1.83	0.40
49:6I:205:LEU:H	49:6I:305:LYS:NZ	2.17	0.40
50:6L:356:LEU:HD12	50:6L:356:LEU:HA	1.84	0.40
51:6M:1251:LYS:HE3	51:6M:1251:LYS:HB3	1.95	0.40
51:6N:1253:THR:O	51:6N:1257:MET:HG3	2.20	0.40
12:6a:2:ARG:NH1	12:6a:249:ASP:OD1	2.54	0.40
12:6a:179:VAL:CG2	13:6b:352:LYS:HB2	2.51	0.40
12:6c:286:VAL:O	12:6c:290:THR:HG22	2.22	0.40
12:6e:404:ASP:OD2	12:6e:405:GLU:N	2.54	0.40
13:6h:203:MET:C	13:6h:204:LEU:HD12	2.45	0.40
12:7c:7:ILE:HG21	12:7c:151:LEU:HD23	2.02	0.40
13:7d:8:HIS:HB3	13:7d:13:GLY:O	2.21	0.40
13:7d:287:SER:O	13:7d:291:ILE:HG12	2.21	0.40
13:7d:334:THR:HA	13:7d:337:THR:HG22	2.03	0.40
12:7g:55:THR:HG23	12:8g:283:ALA:HA	2.02	0.40
12:7g:163:MET:HE3	12:7g:251:ARG:HA	2.03	0.40
12:7g:179:VAL:O	12:7g:388:MET:HE1	2.21	0.40
12:7g:208:TYR:CE1	12:7g:225:LEU:HD11	2.56	0.40
12:8e:238:CYS:SG	12:8e:239:CYS:N	2.94	0.40
13:8f:313:MET:HG3	13:8f:381:SER:HA	2.02	0.40
12:9a:170:VAL:HG21	12:9a:201:VAL:CG2	2.48	0.40
12:9a:251:ARG:O	12:9a:255:VAL:HG13	2.21	0.40
13:9b:287:SER:O	13:9b:291:ILE:HG12	2.21	0.40
12:9e:84:ILE:O	12:Ae:281:TYR:HE1	2.03	0.40
12:9e:238:CYS:SG	12:9e:316:LEU:HD11	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:9e:372:THR:HA	12:9e:422:TYR:CD1	2.56	0.40
13:9f:179:THR:OG1	54:9f:501:GTP:O3'	2.37	0.40
13:9f:296:PHE:HZ	13:9f:351:PHE:HE1	1.70	0.40
12:9g:208:TYR:CE1	12:9g:225:LEU:HD11	2.56	0.40
12:Aa:258:ILE:HD13	12:Aa:264:HIS:HB3	2.02	0.40
13:Ab:288:VAL:HG21	13:Ab:327:ASP:HB3	2.02	0.40
13:Af:288:VAL:HG21	13:Af:327:ASP:HB3	2.02	0.40
13:Af:392:ASP:OD1	13:Af:425:LEU:HD23	2.21	0.40
12:Ag:330:MET:SD	12:Ag:349:VAL:HG11	2.61	0.40
12:Ag:404:ASP:OD2	12:Ag:405:GLU:N	2.54	0.40
12:Ba:212:PHE:O	12:Ba:216:LYS:HD3	2.21	0.40
12:Ba:229:ILE:O	12:Ba:233:MET:HG3	2.21	0.40
12:Ba:278:SER:CA	12:Ba:281:TYR:HB2	2.51	0.40
12:Ba:309:ARG:HH22	12:Ba:343:GLU:HG2	1.86	0.40
53:Ba:501:GDP:H2'	13:Bb:248:LEU:HD21	2.03	0.40
13:Bb:177:VAL:CB	12:Bc:331:LEU:HD22	2.44	0.40
12:Bc:208:TYR:CE1	12:Bc:225:LEU:HD11	2.56	0.40
13:Bd:317:LEU:HB3	13:Bd:319:TYR:CE1	2.53	0.40
12:Be:103:LYS:HG2	12:Be:401:GLU:OE2	2.20	0.40
13:Bf:206:ASN:OD1	54:Bf:501:GTP:N2	2.49	0.40
12:Ca:171:PRO:HA	12:Ca:181:GLU:OE2	2.21	0.40
12:Cc:171:PRO:HG3	12:Cc:181:GLU:HG2	2.03	0.40
12:Cc:207:LEU:HA	12:Cc:210:ILE:HG22	2.04	0.40
13:Cf:96:LYS:HB3	12:Cg:129:CYS:SG	2.61	0.40
13:Cf:334:THR:HA	13:Cf:337:THR:HG22	2.03	0.40
13:Ch:392:ASP:OD1	13:Ch:425:LEU:HD23	2.21	0.40
12:Dg:177:ASP:N	12:Dg:181:GLU:OE2	2.53	0.40
13:Dh:203:MET:HE2	13:Dh:267:PHE:HB3	2.03	0.40
1:0H:442:ALA:HB1	1:0H:446:ALA:HB3	2.02	0.40
1:0J:223:ALA:HB2	1:0J:262:PHE:CZ	2.57	0.40
1:0W:192:SER:OG	1:0W:232:ALA:HB2	2.21	0.40
1:0I:34:ILE:HD13	1:0I:71:TYR:HB2	2.03	0.40
44:5P:56:ILE:HA	44:5P:59:VAL:HG12	2.02	0.40
44:5P:93:PHE:CZ	44:5P:145:PHE:CD2	3.09	0.40
1:0A:213:TYR:O	1:0A:216:PRO:HD2	2.21	0.40
1:0B:367:THR:HB	1:0B:370:HIS:HD2	1.78	0.40
1:0D:85:LEU:HD13	1:0D:121:VAL:HA	2.03	0.40
1:0D:227:ARG:HG3	1:0D:267:VAL:HG22	2.02	0.40
1:0L:80:VAL:HG11	1:0L:120:SER:HB3	2.02	0.40
1:0L:343:ALA:O	1:0L:346:GLU:C	2.64	0.40
1:0N:147:TRP:NE1	1:0N:151:TYR:CE2	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0O:34:ILE:HD13	1:0O:71:TYR:HB2	2.03	0.40
1:0P:91:SER:CB	1:0P:103:ALA:HB2	2.51	0.40
1:0Q:149:LEU:HD23	1:0Q:149:LEU:HA	1.87	0.40
1:0S:83:GLU:O	1:0S:86:PRO:HD2	2.22	0.40
1:0S:313:GLY:O	1:0S:317:LEU:HG	2.22	0.40
1:0T:218:VAL:HG22	1:0T:229:VAL:CG2	2.51	0.40
1:0U:163:VAL:HG12	1:0U:168:ALA:CB	2.47	0.40
1:0V:218:VAL:HG22	1:0V:229:VAL:CG2	2.52	0.40
1:0X:122:ILE:HD11	1:0X:152:ILE:HG21	2.03	0.40
1:0Z:175:CYS:SG	1:0Z:183:LEU:HG	2.61	0.40
1:0Z:183:LEU:HA	1:0Z:183:LEU:HD12	1.82	0.40
1:0Z:240:SER:HG	1:0Z:242:ASP:CG	2.29	0.40
1:1C:85:LEU:HD13	1:1C:121:VAL:HA	2.03	0.40
1:1C:133:CYS:SG	1:1C:141:VAL:HB	2.61	0.40
1:1C:284:GLU:OE1	1:1C:285:LEU:HD23	2.21	0.40
2:1D:22:ASP:O	2:1D:26:THR:HG23	2.20	0.40
2:1D:101:SER:HB2	10:1S:342:LEU:CB	2.52	0.40
2:1E:511:ARG:C	2:1E:513:GLU:N	2.80	0.40
2:1F:209:VAL:O	2:1F:213:LEU:HD23	2.21	0.40
2:1G:152:THR:O	2:1G:156:VAL:HG13	2.22	0.40
3:1H:845:ILE:HA	3:1H:848:ARG:CG	2.51	0.40
3:1H:860:HIS:HB2	3:1H:861:PRO:HD3	2.03	0.40
3:1H:890:ARG:HH12	3:1H:944:GLU:HG3	1.86	0.40
3:1H:973:LEU:O	3:1H:977:GLU:HG3	2.21	0.40
3:1I:186:ARG:HA	3:1I:189:LEU:HD21	2.04	0.40
3:1I:504:LEU:HD13	3:1I:531:MET:HG2	2.03	0.40
4:1J:196:PHE:CE1	4:1J:217:VAL:HG21	2.57	0.40
5:1M:376:PRO:HB2	5:1M:379:MET:SD	2.62	0.40
6:1N:385:THR:O	6:1N:389:LEU:HG	2.22	0.40
7:1O:1643:PRO:HA	7:1O:1847:GLY:HA2	2.02	0.40
7:1O:2531:HIS:CG	8:1P:782:VAL:CG2	3.05	0.40
8:1P:767:GLU:HG3	8:1P:768:GLU:CD	2.47	0.40
10:1R:172:VAL:HG12	10:1R:173:ARG:N	2.35	0.40
10:1S:373:SER:CB	13:Bf:220:GLU:OE2	2.69	0.40
13:1b:203:MET:HE2	13:1b:267:PHE:HB3	2.03	0.40
12:1c:161:ASP:OD1	12:1c:162:ARG:N	2.54	0.40
12:1e:208:TYR:HA	12:1e:208:TYR:HD1	1.79	0.40
13:1f:90:GLU:OE1	13:1f:121:ARG:NE	2.44	0.40
12:1g:391:ARG:HG2	13:1h:262:TYR:OH	2.21	0.40
16:2I:38:UNK:O	12:Dc:279:GLN:OE1	2.39	0.40
13:2b:334:THR:HA	13:2b:337:THR:HG22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2e:66:MET:HG2	12:2e:116:VAL:HG11	2.04	0.40
12:2e:164:MET:O	12:2e:166:THR:HG23	2.21	0.40
13:2f:210:TYR:CG	12:2g:324:LYS:HD3	2.55	0.40
13:2f:296:PHE:HZ	13:2f:351:PHE:HE1	1.70	0.40
13:2h:296:PHE:HZ	13:2h:351:PHE:HE1	1.70	0.40
28:3C:554:ARG:HH12	12:3g:404:ASP:CG	2.29	0.40
30:3G:550:ARG:HD2	30:3G:550:ARG:HA	1.87	0.40
31:3I:465:LYS:HG3	31:3I:469:PHE:CD2	2.56	0.40
33:3L:86:LEU:HD21	33:3L:112:LEU:HD23	2.01	0.40
34:3M:99:ARG:HA	34:3M:102:GLN:OE1	2.21	0.40
34:3M:340:ALA:HA	34:3M:343:THR:HG22	2.03	0.40
34:3N:270:ILE:O	34:3N:274:ILE:HG13	2.21	0.40
34:3P:125:ARG:NE	34:3P:125:ARG:HA	2.36	0.40
34:3R:272:ALA:O	34:3R:276:GLU:HG2	2.21	0.40
34:3S:75:GLN:HG3	34:3S:419:LEU:HD13	2.03	0.40
34:3T:32:SER:HB2	34:3T:35:GLN:CD	2.46	0.40
34:3T:270:ILE:O	34:3T:274:ILE:HG13	2.21	0.40
34:3V:408:ARG:HA	34:3V:408:ARG:NE	2.36	0.40
34:3V:485:TYR:CE2	34:3X:482:LEU:HB2	2.56	0.40
34:3W:488:ARG:HG2	34:3W:492:LEU:HD12	2.03	0.40
12:3a:208:TYR:CE1	12:3a:225:LEU:HD11	2.56	0.40
13:3b:296:PHE:HZ	13:3b:351:PHE:HE1	1.70	0.40
13:3d:248:LEU:HA	13:3d:248:LEU:HD23	1.79	0.40
13:3d:296:PHE:HZ	13:3d:351:PHE:HE1	1.70	0.40
12:3e:35:THR:HG23	12:3e:37:HIS:CD2	2.55	0.40
34:4A:125:ARG:NE	34:4A:357:LEU:O	2.54	0.40
34:4B:331:ALA:HA	34:4B:334:LEU:HD12	2.03	0.40
34:4B:503:ASN:HA	34:4B:506:GLU:HG2	2.02	0.40
35:4C:429:ILE:HG12	35:4C:487:LEU:HD13	2.03	0.40
35:4C:555:GLU:C	35:4C:705:ARG:HH12	2.29	0.40
35:4C:920:MET:HE3	35:4C:920:MET:HB3	1.97	0.40
35:4C:926:THR:OG1	35:4C:1063:LEU:HD12	2.21	0.40
36:4D:153:PHE:HA	36:4D:156:LEU:CD1	2.51	0.40
37:4E:518:LEU:HD21	37:4E:534:HIS:HE1	1.87	0.40
37:4E:715:PHE:CZ	37:4E:1812:TYR:CG	3.10	0.40
37:4E:885:MET:HB2	37:4E:885:MET:HE2	1.87	0.40
37:4E:1156:LEU:HD23	37:4E:1156:LEU:HA	1.90	0.40
37:4F:671:LEU:CG	38:4K:39:HIS:HB3	2.51	0.40
37:4F:1712:LEU:HA	37:4F:1712:LEU:HD13	1.22	0.40
37:4G:1130:ALA:O	37:4G:1131:THR:C	2.64	0.40
37:4G:1321:THR:O	38:4L:26:GLU:CA	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4H:1138:VAL:CG1	37:4H:1139:THR:N	2.48	0.40
38:4J:45:ALA:O	38:4J:47:ALA:N	2.53	0.40
38:4L:31:ALA:O	38:4L:32:GLU:C	2.60	0.40
38:4M:27:ALA:HA	38:4M:30:ALA:N	2.37	0.40
38:4M:37:GLY:O	38:4M:41:LYS:HB2	2.22	0.40
38:4N:31:ALA:HA	38:4N:34:ALA:CB	2.51	0.40
38:4O:40:LYS:H	38:4O:40:LYS:HG2	1.46	0.40
39:4R:36:ALA:HB3	44:5T:96:PHE:CZ	2.56	0.40
39:4R:94:ALA:O	39:4R:97:THR:OG1	2.33	0.40
39:4S:67:TRP:CH2	44:5R:128:MET:HA	2.57	0.40
40:4T:50:LEU:HG	40:4T:77:VAL:CG2	2.51	0.40
40:4U:35:ARG:HD2	40:4U:38:TYR:CE2	2.56	0.40
12:4a:267:MET:HE1	12:4a:371:SER:HB3	2.03	0.40
12:4c:208:TYR:CE1	12:4c:225:LEU:HD11	2.56	0.40
13:4d:371:VAL:HG22	13:4d:373:ARG:H	1.85	0.40
13:4d:392:ASP:OD1	13:4d:425:LEU:HD23	2.21	0.40
12:4e:106:TYR:HE1	12:4e:403:MET:HE1	1.85	0.40
12:4e:248:ALA:HA	12:4e:252:LYS:CD	2.49	0.40
13:4f:296:PHE:HZ	13:4f:351:PHE:HE1	1.70	0.40
13:4h:104:ALA:HB2	13:4h:413:MET:HB2	2.01	0.40
13:4h:203:MET:HE2	13:4h:267:PHE:HB3	2.03	0.40
13:4h:248:LEU:HD23	13:4h:248:LEU:HA	1.79	0.40
13:4h:296:PHE:HZ	13:4h:351:PHE:HE1	1.70	0.40
41:5A:140:GLU:O	43:5L:167:PRO:HB3	2.21	0.40
41:5B:138:TRP:HA	41:5B:143:MET:HA	2.03	0.40
42:5E:38:LEU:HD22	42:5E:47:GLN:HG2	2.03	0.40
42:5H:139:LEU:CD2	43:5L:146:TYR:CA	3.00	0.40
43:5J:52:LEU:HA	43:5J:52:LEU:HD12	1.84	0.40
43:5K:15:LEU:HD11	43:5K:73:SER:HB3	2.02	0.40
44:5Q:56:ILE:HA	44:5Q:59:VAL:HG12	2.03	0.40
44:5Q:76:MET:O	44:5Q:80:MET:HG2	2.21	0.40
12:5a:154:LYS:O	12:5a:158:GLU:HG2	2.21	0.40
13:5b:52:PHE:HZ	13:5b:239:THR:HG21	1.85	0.40
13:5b:334:THR:HA	13:5b:337:THR:HG22	2.03	0.40
13:5b:392:ASP:OD1	13:5b:425:LEU:HD23	2.21	0.40
12:5g:208:TYR:CE1	12:5g:225:LEU:HD11	2.57	0.40
47:6A:909:ARG:HA	47:6A:910:PRO:HD3	1.85	0.40
47:6A:1802:ALA:O	47:6A:1803:SER:OG	2.35	0.40
48:6F:77:GLY:N	48:6F:99:ASP:HB3	2.35	0.40
48:6F:520:GLN:O	48:6F:524:ILE:HG13	2.21	0.40
49:6G:150:ALA:O	49:6G:154:LEU:HD12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:6I:53:ARG:NH1	49:6I:67:ASP:OD2	2.54	0.40
49:6I:134:GLN:NE2	49:6I:138:ASP:OD2	2.53	0.40
49:6I:192:PHE:HB2	49:6I:212:ILE:CG1	2.50	0.40
49:6I:285:GLY:HA2	49:6I:333:VAL:CG2	2.48	0.40
49:6J:53:ARG:NH1	49:6J:67:ASP:OD2	2.54	0.40
49:6J:150:ALA:O	49:6J:154:LEU:HD12	2.21	0.40
49:6J:177:ALA:HB1	49:6J:182:ASN:HB3	2.03	0.40
49:6J:205:LEU:H	49:6J:305:LYS:NZ	2.17	0.40
49:6J:234:LEU:HD12	49:6J:234:LEU:HA	1.83	0.40
50:6K:356:LEU:HD12	50:6K:356:LEU:HA	1.84	0.40
50:6L:267:ARG:HA	50:6L:267:ARG:HD2	1.75	0.40
51:6M:1370:LYS:NZ	51:6M:1372:TYR:HA	2.36	0.40
51:6M:2034:PHE:HB3	51:6M:2089:TYR:H	1.86	0.40
51:6N:2034:PHE:HB3	51:6N:2089:TYR:H	1.86	0.40
12:6a:154:LYS:O	12:6a:158:GLU:HG2	2.21	0.40
12:6a:238:CYS:SG	12:6a:239:CYS:N	2.94	0.40
13:6b:3:GLU:HA	13:6b:51:THR:HA	2.03	0.40
13:6b:100:ALA:O	12:6c:255:VAL:HG11	2.20	0.40
13:6d:3:GLU:HA	13:6d:51:THR:HA	2.03	0.40
13:6f:8:HIS:HB3	13:6f:13:GLY:O	2.21	0.40
13:6h:8:HIS:HB3	13:6h:13:GLY:O	2.21	0.40
13:7b:8:HIS:HB3	13:7b:13:GLY:O	2.21	0.40
12:7c:208:TYR:CE1	12:7c:225:LEU:HD11	2.56	0.40
13:7d:90:GLU:OE1	13:7d:121:ARG:NE	2.44	0.40
13:7d:119:LEU:HD11	13:7d:156:ARG:HB3	2.03	0.40
13:7d:203:MET:C	13:7d:204:LEU:HD12	2.45	0.40
12:7e:170:VAL:HG12	12:7e:202:LEU:O	2.21	0.40
12:7e:257:LEU:HD21	12:7e:314:SER:HB2	2.04	0.40
13:7f:119:LEU:HD11	13:7f:156:ARG:HB3	2.03	0.40
13:7f:248:LEU:HA	13:7f:248:LEU:HD23	1.79	0.40
13:7h:203:MET:HE2	13:7h:267:PHE:HB3	2.03	0.40
13:8b:175:PRO:HB3	13:8b:390:ARG:HE	1.87	0.40
13:8d:145:THR:OG1	54:8d:501:GTP:O3B	2.31	0.40
13:8d:288:VAL:HG21	13:8d:327:ASP:HB3	2.02	0.40
12:8g:322:SER:OG	12:8g:325:GLU:HB2	2.21	0.40
12:9a:310:TYR:O	12:9a:342:VAL:HG22	2.20	0.40
13:9b:3:GLU:HA	13:9b:51:THR:HA	2.03	0.40
13:9b:296:PHE:HZ	13:9b:351:PHE:HE1	1.70	0.40
12:9e:374:ILE:HD11	12:9e:422:TYR:CZ	2.56	0.40
13:9f:287:SER:O	13:9f:291:ILE:HG12	2.21	0.40
12:Aa:16:ILE:HD11	12:Aa:229:ILE:CG2	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ab:175:PRO:HB3	13:Ab:390:ARG:HE	1.87	0.40
13:Ad:100:ALA:HA	12:Ae:252:LYS:HG3	2.03	0.40
13:Af:203:MET:HE2	13:Af:267:PHE:HB3	2.03	0.40
12:Ag:39:ASP:OD1	12:Ag:40:SER:N	2.54	0.40
12:Ba:68:LEU:HD23	12:Ba:143:THR:HG23	2.03	0.40
12:Ba:208:TYR:HD1	12:Ba:208:TYR:HA	1.79	0.40
13:Bd:300:SER:O	13:Bd:300:SER:OG	2.39	0.40
12:Be:16:ILE:HD11	12:Be:229:ILE:CG2	2.50	0.40
13:Bf:237:SER:HA	13:Bf:320:ARG:HD2	2.02	0.40
12:Ca:101:TRP:HD1	12:Ca:145:SER:OG	2.05	0.40
12:Ca:275:SER:O	12:Ca:279:GLN:HG3	2.21	0.40
12:Ca:304:ASP:HA	12:Ca:305:PRO:HD3	1.95	0.40
13:Cb:334:THR:HA	13:Cb:337:THR:HG22	2.03	0.40
12:Cc:186:THR:O	12:Cc:189:VAL:HG12	2.21	0.40
13:Cf:222:PRO:O	12:Cg:322:SER:OG	2.35	0.40
12:Cg:66:MET:HA	12:Cg:91:VAL:HG13	2.03	0.40
12:Cg:163:MET:HE3	12:Cg:251:ARG:HA	2.04	0.40
13:Ch:317:LEU:HB3	13:Ch:319:TYR:CE1	2.53	0.40
12:Da:3:GLU:HB3	12:Da:62:ARG:HH21	1.85	0.40
12:Da:326:VAL:O	12:Da:330:MET:HG2	2.21	0.40
13:Dd:203:MET:HE2	13:Dd:267:PHE:HB3	2.03	0.40
13:Df:203:MET:HE2	13:Df:267:PHE:HB3	2.03	0.40
13:Df:222:PRO:HD2	12:Dg:324:LYS:CG	2.44	0.40
12:Dg:208:TYR:CE1	12:Dg:225:LEU:HD11	2.55	0.40
1:0J:383:LEU:HB3	1:0J:400:CYS:HB3	2.03	0.40
1:0W:34:ILE:HD13	1:0W:71:TYR:HB2	2.03	0.40
1:0W:153:ALA:O	1:0W:197:HIS:CD2	2.75	0.40
44:5P:112:VAL:HA	44:5P:116:LEU:HD12	2.02	0.40
1:0A:51:LEU:CD1	47:6B:118:GLY:HA2	2.47	0.40
1:0A:95:GLN:O	1:0A:100:LYS:NZ	2.54	0.40
1:0B:97:ARG:HD2	1:0B:138:ASP:CG	2.47	0.40
1:0B:313:GLY:O	1:0B:317:LEU:HG	2.22	0.40
1:0B:320:ILE:HD11	1:0B:331:VAL:CG1	2.51	0.40
1:0C:29:LYS:HD2	1:0C:29:LYS:HA	1.94	0.40
1:0D:119:GLN:HE22	1:0D:162:GLN:HE22	1.70	0.40
1:0E:301:TYR:O	1:0E:305:SER:OG	2.30	0.40
1:0F:28:ALA:HB1	1:0F:67:ARG:HB2	2.03	0.40
1:0F:263:PRO:HG2	1:0F:264:ASP:H	1.86	0.40
1:0F:291:GLY:O	39:4Q:128:ARG:HD3	2.22	0.40
1:0G:192:SER:OG	1:0G:232:ALA:HB2	2.21	0.40
1:0N:353:LYS:HB2	1:0N:396:LEU:HD13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0O:316:ALA:O	1:0O:320:ILE:HG23	2.22	0.40
1:0O:344:LEU:HD11	1:0O:356:THR:OG1	2.22	0.40
1:0P:27:MET:HB3	1:0P:37:LEU:HD11	2.03	0.40
1:0P:203:GLN:NE2	1:0P:240:SER:OG	2.54	0.40
1:0Q:308:ASN:HA	1:0Q:311:LEU:CD1	2.49	0.40
1:0R:134:LEU:CB	1:0R:171:LEU:HD23	2.52	0.40
1:0R:181:LEU:HB3	1:0R:225:LEU:HD11	2.02	0.40
1:0T:117:LEU:HD23	1:0T:117:LEU:HA	1.93	0.40
1:0T:401:ARG:O	1:0T:405:LYS:HG2	2.21	0.40
1:0U:369:ASP:O	1:0U:372:LYS:HB2	2.21	0.40
1:0V:85:LEU:HB3	1:0V:86:PRO:HD3	2.04	0.40
1:0V:182:SER:HA	1:0V:185:ARG:CD	2.52	0.40
1:0V:210:ALA:O	1:0V:214:LEU:HG	2.21	0.40
1:0X:91:SER:OG	1:0X:103:ALA:HB2	2.22	0.40
1:0X:407:VAL:O	1:0X:411:LEU:HB2	2.20	0.40
1:0Y:15:LYS:HA	1:0Y:18:VAL:HG22	2.02	0.40
1:0Y:108:ARG:HH22	1:0Y:144:ALA:HB1	1.86	0.40
1:0Y:302:ILE:HG23	1:0Y:310:ARG:HE	1.86	0.40
1:0Z:305:SER:OG	1:0Z:310:ARG:HB3	2.21	0.40
1:1A:85:LEU:HD13	1:1A:121:VAL:HA	2.03	0.40
1:1A:417:LEU:HD23	1:1A:417:LEU:HA	1.91	0.40
1:1B:65:LEU:CD2	1:1B:84:ILE:HG21	2.51	0.40
1:1B:223:ALA:HB2	1:1B:262:PHE:CZ	2.57	0.40
1:1B:360:LEU:HD22	1:1B:374:VAL:CG1	2.51	0.40
1:1C:33:ASN:O	1:1C:37:LEU:HG	2.20	0.40
2:1E:178:ASP:O	2:1E:182:LEU:HD13	2.21	0.40
2:1E:347:LEU:O	2:1E:354:THR:HG21	2.22	0.40
2:1G:209:VAL:O	2:1G:213:LEU:HD23	2.21	0.40
3:1H:263:LEU:O	3:1H:267:LEU:HG	2.21	0.40
3:1H:616:TYR:OH	3:1H:625:ALA:HB1	2.22	0.40
3:1H:622:PRO:O	3:1H:623:HIS:CG	2.74	0.40
3:1I:95:THR:O	3:1I:96:ALA:HB2	2.21	0.40
4:1K:196:PHE:CE1	4:1K:217:VAL:HG21	2.57	0.40
5:1L:522:PRO:HB3	13:1b:159:VAL:CG2	2.44	0.40
5:1M:564:ARG:HH22	13:1f:437:ALA:HB3	1.86	0.40
6:1N:119:THR:O	6:1N:123:VAL:HG23	2.21	0.40
6:1N:1748:ARG:HE	6:1N:1781:PHE:HD1	1.65	0.40
6:1N:2469:VAL:O	6:1N:2495:VAL:HA	2.22	0.40
6:1N:2500:SER:OG	6:1N:2501:LEU:N	2.55	0.40
6:1N:2618:CYS:O	6:1N:2620:GLY:N	2.54	0.40
7:1O:194:LEU:N	7:1O:195:PRO:HD2	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1R:110:PHE:CE1	12:9c:106:TYR:HB3	2.55	0.40
10:1R:205:ALA:CA	10:1R:208:MET:HE3	2.51	0.40
10:1R:424:THR:H	10:1R:424:THR:HG23	1.49	0.40
10:1S:395:VAL:H	10:1S:395:VAL:HG22	1.65	0.40
12:1a:69:GLU:HA	12:1a:70:PRO:HD3	1.96	0.40
12:1a:106:TYR:HE1	12:1a:403:MET:HE1	1.87	0.40
12:1a:186:THR:HA	12:1a:189:VAL:HG12	2.04	0.40
12:1e:21:TRP:CD1	12:1e:85:PHE:HE1	2.39	0.40
13:1f:203:MET:HE2	13:1f:267:PHE:HB3	2.03	0.40
12:1g:179:VAL:O	12:1g:388:MET:HE1	2.21	0.40
16:2I:25:UNK:O	16:2I:26:UNK:O	2.40	0.40
22:2P:40:UNK:O	13:6f:176:GLN:OE1	2.40	0.40
23:2Q:8:UNK:CB	13:3h:339:ARG:HG2	2.52	0.40
24:2T:214:ILE:HG22	13:Cf:402:ARG:HB2	2.04	0.40
24:2U:135:ARG:O	13:Cd:96:LYS:CD	2.69	0.40
24:2U:203:LEU:HD23	24:2U:203:LEU:HA	1.90	0.40
24:2V:120:THR:HA	24:2V:123:HIS:NE2	2.37	0.40
24:2V:133:SER:HB3	24:2V:150:PHE:HA	2.04	0.40
24:2V:170:ALA:O	24:2V:174:MET:HG2	2.21	0.40
24:2V:217:ARG:HE	12:Ce:421:GLU:HB2	1.86	0.40
13:2b:296:PHE:HZ	13:2b:351:PHE:HE1	1.70	0.40
12:2c:163:MET:HE3	12:2c:251:ARG:HA	2.02	0.40
12:2g:75:SER:HA	12:2g:78:SER:OG	2.22	0.40
13:2h:145:THR:OG1	54:2h:501:GTP:O3B	2.31	0.40
13:2h:392:ASP:OD1	13:2h:425:LEU:HD23	2.21	0.40
29:3E:1150:TYR:CZ	29:3E:1154:ARG:NH2	2.89	0.40
30:3F:386:MET:SD	30:3F:389:GLN:OE1	2.80	0.40
30:3G:624:VAL:O	30:3G:627:LEU:HB2	2.21	0.40
31:3H:179:LEU:CD2	31:3H:183:ARG:HH21	2.33	0.40
32:3J:324:ASN:HD22	32:3J:336:ASN:HB2	1.86	0.40
34:3N:340:ALA:HA	34:3N:343:THR:HG22	2.03	0.40
34:3O:37:ASN:OD1	34:3T:87:ASN:HB3	2.20	0.40
34:3O:394:GLU:O	34:3O:398:ARG:HG2	2.22	0.40
34:3P:334:LEU:HD21	34:3P:393:ALA:HB1	2.02	0.40
34:3R:455:THR:O	34:3R:459:ILE:HG13	2.21	0.40
34:3S:60:TYR:CE1	34:3S:298:ALA:HB1	2.56	0.40
34:3S:114:ALA:HB1	34:3S:375:TYR:HE2	1.86	0.40
34:3S:276:GLU:OE1	34:3S:459:ILE:HG21	2.21	0.40
34:3S:381:ASN:O	34:3S:385:GLU:HG2	2.21	0.40
34:3T:419:LEU:HD12	34:3T:419:LEU:HA	1.82	0.40
34:3V:94:THR:HG21	34:3Z:33:GLN:HE22	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:3V:100:ILE:CD1	34:3V:338:LEU:HG	2.51	0.40
12:3c:304:ASP:HA	12:3c:305:PRO:HD3	1.91	0.40
12:3e:73:MET:CE	12:3e:92:PHE:HB3	2.48	0.40
13:3h:52:PHE:HZ	13:3h:239:THR:HG21	1.85	0.40
35:4C:880:VAL:HA	35:4C:881:PRO:HD3	1.94	0.40
36:4D:69:LEU:HA	36:4D:72:LEU:HD12	2.03	0.40
37:4E:526:ARG:HH22	37:4E:681:GLU:HG3	1.87	0.40
37:4E:583:GLU:CD	43:5L:36:TYR:HA	2.46	0.40
37:4E:754:ALA:HB2	37:4E:810:VAL:HG11	2.03	0.40
37:4E:1067:PRO:HA	37:4E:1068:PRO:HD3	1.90	0.40
37:4E:1172:TRP:H	37:4E:1273:PRO:HG2	1.86	0.40
37:4E:1311:GLY:O	38:4O:14:VAL:HG21	2.21	0.40
37:4F:1283:GLY:HA2	39:4S:24:ARG:HH22	1.85	0.40
37:4G:773:ARG:HH22	37:4G:1622:PRO:HD2	1.85	0.40
37:4G:856:MET:CE	37:4G:860:LEU:C	2.94	0.40
37:4G:1132:PRO:HD3	38:4L:40:LYS:CD	2.51	0.40
37:4H:1084:ARG:HH21	38:4M:40:LYS:HB3	1.87	0.40
37:4H:1085:MET:HE2	37:4H:1085:MET:HB3	1.50	0.40
38:4K:77:VAL:CG2	38:4N:57:VAL:CG2	2.75	0.40
38:4N:26:GLU:O	38:4N:29:LYS:N	2.53	0.40
38:4O:68:LEU:CD1	38:4O:80:LEU:HD12	2.50	0.40
39:4R:78:ARG:NH2	40:4V:504:HIS:O	2.53	0.40
39:4S:66:TYR:CD2	44:5R:89:LEU:HD13	2.56	0.40
39:4S:138:LEU:O	39:4S:142:ARG:HD3	2.22	0.40
40:4T:35:ARG:HD2	40:4T:38:TYR:CE2	2.56	0.40
40:4T:251:LEU:HD23	40:4T:258:LEU:HD22	2.03	0.40
40:4T:655:VAL:CG1	40:4T:723:VAL:HG11	2.50	0.40
40:4U:487:LEU:HD12	40:4U:519:LEU:HD23	2.03	0.40
41:4Y:164:GLY:O	43:5J:156:SER:N	2.54	0.40
13:4b:296:PHE:HZ	13:4b:351:PHE:HE1	1.70	0.40
13:4d:237:SER:HA	13:4d:320:ARG:HD2	2.02	0.40
12:4e:16:ILE:HD11	12:4e:229:ILE:CG2	2.51	0.40
12:4g:165:LEU:HD11	12:4g:200:MET:HE2	2.04	0.40
41:5A:121:GLN:O	41:5A:138:TRP:O	2.40	0.40
42:5H:135:ARG:HB2	43:5L:50:ILE:C	2.34	0.40
43:5I:15:LEU:HD11	43:5I:73:SER:HB3	2.02	0.40
43:5L:162:VAL:HG13	43:5L:164:GLU:OE2	2.21	0.40
44:5Q:18:GLU:O	44:5Q:22:LEU:HG	2.21	0.40
13:5b:277:SER:C	13:5b:369:ALA:HB2	2.47	0.40
13:5b:394:LYS:HB3	12:5c:346:PRO:HG3	2.03	0.40
13:5d:300:SER:O	13:5d:300:SER:OG	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5h:334:THR:HA	13:5h:337:THR:HG22	2.03	0.40
47:6A:790:ASP:CG	47:6A:791:SER:H	2.30	0.40
47:6A:1575:ARG:HA	47:6A:1618:TYR:CD1	2.56	0.40
47:6B:41:GLN:OE1	47:6B:41:GLN:HA	2.22	0.40
47:6B:392:LEU:CD1	3:6D:983:ARG:HH21	2.33	0.40
47:6B:790:ASP:CG	47:6B:791:SER:H	2.30	0.40
48:6E:251:LEU:HD21	48:6E:257:LEU:HD22	2.02	0.40
49:6G:299:MET:HB3	49:6G:299:MET:HE2	1.83	0.40
49:6H:2:SER:N	49:6H:5:GLU:HB2	2.36	0.40
49:6H:88:HIS:CB	49:6H:366:VAL:HG21	2.51	0.40
49:6I:21:ASN:HA	49:6I:24:VAL:HG22	2.03	0.40
49:6J:2:SER:N	49:6J:5:GLU:HB2	2.36	0.40
49:6J:134:GLN:NE2	49:6J:138:ASP:OD2	2.53	0.40
50:6K:518:LYS:HG3	50:6K:519:ASP:N	2.37	0.40
51:6M:1241:VAL:HG11	51:6M:1251:LYS:HG2	2.02	0.40
51:6M:1923:ARG:HH11	51:6M:1925:PRO:HA	1.85	0.40
51:6M:2174:LEU:CB	51:6M:2258:LEU:HD11	2.52	0.40
51:6M:2472:GLN:NE2	51:6M:2473:ARG:HG3	2.36	0.40
51:6N:1352:HIS:HB3	51:6N:1418:LEU:HD13	2.03	0.40
51:6N:1370:LYS:NZ	51:6N:1372:TYR:HA	2.36	0.40
51:6N:2174:LEU:CB	51:6N:2258:LEU:HD11	2.52	0.40
13:6d:8:HIS:HB3	13:6d:13:GLY:O	2.21	0.40
13:6f:203:MET:C	13:6f:204:LEU:HD12	2.45	0.40
13:6h:3:GLU:HA	13:6h:51:THR:HA	2.03	0.40
13:6h:296:PHE:HZ	13:6h:351:PHE:HE1	1.70	0.40
12:7a:286:VAL:O	12:7a:290:THR:HG23	2.22	0.40
13:7b:203:MET:C	13:7b:204:LEU:HD12	2.45	0.40
13:7b:287:SER:O	13:7b:291:ILE:HG12	2.21	0.40
13:7h:248:LEU:HA	13:7h:248:LEU:HD23	1.79	0.40
13:7h:288:VAL:HG21	13:7h:327:ASP:HB3	2.02	0.40
13:8d:8:HIS:HB3	13:8d:13:GLY:O	2.21	0.40
13:8d:175:PRO:HB3	13:8d:390:ARG:HE	1.87	0.40
12:8e:318:ARG:HB3	12:8e:357:PRO:HA	2.04	0.40
13:8f:392:ASP:OD1	13:8f:425:LEU:HD23	2.21	0.40
13:8h:8:HIS:HB3	13:8h:13:GLY:O	2.21	0.40
13:8h:296:PHE:HZ	13:8h:351:PHE:HE1	1.70	0.40
12:9a:7:ILE:HB	12:9a:135:VAL:HG22	2.03	0.40
12:9a:86:ARG:CZ	12:Aa:278:SER:OG	2.70	0.40
12:9a:286:VAL:O	12:9a:290:THR:HG23	2.21	0.40
13:9b:203:MET:HE2	13:9b:267:PHE:HB3	2.03	0.40
12:9c:240:LEU:HD11	12:9c:250:LEU:HD13	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:9d:296:PHE:HZ	13:9d:351:PHE:HE1	1.70	0.40
12:9e:67:ASP:O	12:9e:92:PHE:HA	2.20	0.40
12:9e:201:VAL:C	12:9e:202:LEU:HD22	2.46	0.40
13:9f:203:MET:HE2	13:9f:267:PHE:HB3	2.03	0.40
13:9h:203:MET:HE2	13:9h:267:PHE:HB3	2.03	0.40
12:Aa:21:TRP:CD1	12:Aa:85:PHE:CE1	3.10	0.40
13:Ab:52:PHE:HZ	13:Ab:239:THR:HG21	1.85	0.40
13:Ad:203:MET:HE2	13:Ad:267:PHE:HB3	2.03	0.40
13:Ad:296:PHE:HZ	13:Ad:351:PHE:HE1	1.70	0.40
12:Ag:64:ILE:HD13	12:Ag:120:VAL:HG22	2.02	0.40
12:Ag:267:MET:HG2	12:Ag:301:CYS:HB3	2.04	0.40
12:Ba:394:PHE:CD1	13:Bb:261:PRO:HA	2.56	0.40
12:Bc:68:LEU:HB3	12:Bc:96:GLY:HA2	2.01	0.40
13:Bd:8:HIS:HB3	13:Bd:13:GLY:O	2.21	0.40
13:Bf:203:MET:HE2	13:Bf:267:PHE:HB3	2.03	0.40
12:Bg:97:ALA:O	12:Bg:99:ASN:N	2.52	0.40
12:Bg:163:MET:HE3	12:Bg:251:ARG:HA	2.03	0.40
12:Bg:170:VAL:HG13	12:Bg:171:PRO:HD2	2.03	0.40
12:Ca:16:ILE:HD11	12:Ca:229:ILE:CG2	2.51	0.40
12:Cc:75:SER:HA	12:Cc:78:SER:OG	2.21	0.40
13:Ch:206:ASN:OD1	54:Ch:501:GTP:N2	2.49	0.40
12:Da:70:PRO:HB2	13:Db:1:MET:HE2	2.02	0.40
12:Da:172:SER:HA	12:Da:203:ASP:OD1	2.22	0.40
13:Db:222:PRO:HD2	12:Dc:324:LYS:CG	2.47	0.40
12:De:73:MET:CE	12:De:92:PHE:HB3	2.51	0.40
12:Dg:39:ASP:OD1	12:Dg:40:SER:N	2.55	0.40
1:0J:275:VAL:HG11	1:0J:298:LEU:HD11	2.01	0.40
1:0I:308:ASN:HA	1:0I:311:LEU:CD1	2.49	0.40
1:0A:76:ALA:HB3	1:0A:117:LEU:HD13	2.04	0.40
1:0A:343:ALA:C	1:0A:347:GLU:HG3	2.46	0.40
1:0A:407:VAL:O	1:0A:411:LEU:HB2	2.21	0.40
1:0B:301:TYR:OH	1:0B:309:ASN:O	2.34	0.40
1:0B:391:ALA:HB3	1:0B:396:LEU:HD12	2.04	0.40
1:0C:399:LYS:HZ2	1:0C:402:ARG:NH2	2.19	0.40
1:0D:47:ARG:CG	1:0D:87:GLN:HE22	2.35	0.40
1:0D:411:LEU:C	1:0D:411:LEU:HD23	2.47	0.40
1:0E:20:PHE:CZ	1:0E:24:VAL:HG21	2.56	0.40
1:0E:355:ALA:O	1:0E:359:THR:HG23	2.21	0.40
1:0F:76:ALA:O	1:0F:80:VAL:HG23	2.21	0.40
1:0F:79:VAL:HG13	1:0F:84:ILE:HB	2.03	0.40
1:0G:34:ILE:HG23	1:0G:68:LEU:HD22	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0L:128:ASP:O	1:0L:132:THR:HG23	2.21	0.40
1:0L:196:LYS:HB3	1:0L:235:GLN:HG3	2.04	0.40
1:0M:196:LYS:HB3	1:0M:235:GLN:HG3	2.03	0.40
1:0N:126:ALA:HB3	1:0N:128:ASP:OD1	2.21	0.40
1:0N:170:PRO:HG2	32:3J:27:ASN:HB2	2.04	0.40
1:0O:18:VAL:HG22	1:0O:57:ILE:HG12	2.04	0.40
1:0Q:108:ARG:HA	1:0Q:148:THR:HG23	2.03	0.40
1:0V:295:VAL:O	1:0V:299:VAL:HG23	2.21	0.40
1:0V:355:ALA:O	1:0V:359:THR:HG23	2.21	0.40
1:0X:25:ALA:O	1:0X:67:ARG:NH1	2.54	0.40
1:0Y:97:ARG:HD2	1:0Y:138:ASP:CG	2.47	0.40
1:0Y:257:LEU:HD23	1:0Y:257:LEU:HA	1.87	0.40
1:0Z:171:LEU:HD23	1:0Z:174:LEU:HD12	2.04	0.40
1:1A:47:ARG:CG	1:1A:87:GLN:HE22	2.35	0.40
1:1A:227:ARG:HG3	1:1A:267:VAL:HG22	2.02	0.40
1:1C:350:ASP:OD2	1:1C:351:HIS:N	2.54	0.40
1:1C:398:THR:O	1:1C:402:ARG:HG3	2.22	0.40
2:1D:49:GLN:HG3	2:1D:51:VAL:HG22	2.03	0.40
3:1H:1009:ARG:HD2	3:1H:1009:ARG:HH11	1.81	0.40
3:1H:1020:LEU:O	3:1H:1024:VAL:HG23	2.21	0.40
4:1J:107:ALA:O	4:1J:157:THR:HA	2.21	0.40
4:1K:207:THR:OG1	4:1K:208:LYS:N	2.55	0.40
5:1L:376:PRO:HB2	5:1L:379:MET:SD	2.62	0.40
5:1L:518:LEU:HG	13:1b:192:HIS:NE2	2.36	0.40
5:1M:384:VAL:O	5:1M:471:SER:HA	2.21	0.40
6:1N:813:LEU:HD21	6:1N:818:ASN:O	2.22	0.40
6:1N:974:PRO:HA	6:1N:975:PRO:HD3	1.88	0.40
6:1N:1483:LEU:HD21	6:1N:1512:LEU:HB2	2.04	0.40
6:1N:1837:ALA:O	6:1N:1841:VAL:HG23	2.21	0.40
7:1O:336:VAL:HG13	7:1O:448:CYS:SG	2.62	0.40
7:1O:1482:LEU:HD22	44:5V:96:PHE:HE2	1.87	0.40
7:1O:1605:ARG:HA	44:5V:63:GLY:O	2.21	0.40
10:1S:140:VAL:O	10:1S:144:ARG:HG3	2.21	0.40
12:1a:68:LEU:HD23	12:1a:143:THR:HG23	2.02	0.40
13:1d:248:LEU:HD23	13:1d:248:LEU:HA	1.79	0.40
12:1e:106:TYR:HE1	12:1e:403:MET:HE1	1.87	0.40
12:1e:180:VAL:HG22	13:1f:258:ASN:OD1	2.21	0.40
13:1f:3:GLU:HA	13:1f:51:THR:HA	2.03	0.40
12:1g:68:LEU:HD23	12:1g:143:THR:HB	2.04	0.40
17:2K:35:UNK:O	17:2K:36:UNK:C	2.69	0.40
24:2U:128:VAL:O	12:De:335:ASN:ND2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2b:20:CYS:HA	13:2b:232:ALA:HB1	2.04	0.40
13:2b:392:ASP:OD1	13:2b:425:LEU:HD23	2.21	0.40
13:2d:119:LEU:HD11	13:2d:156:ARG:HB3	2.03	0.40
13:2d:246:GLY:N	13:2d:249:ASN:OD1	2.43	0.40
13:2d:296:PHE:HZ	13:2d:351:PHE:HE1	1.70	0.40
12:2e:417:ASP:O	12:2e:421:GLU:HG2	2.20	0.40
12:2g:130:LEU:O	12:2g:162:ARG:NE	2.55	0.40
13:2h:20:CYS:HA	13:2h:232:ALA:HB1	2.04	0.40
29:3E:1187:THR:O	29:3E:1190:GLU:HB2	2.22	0.40
30:3F:374:ARG:NH2	13:8f:432:PHE:CB	2.80	0.40
31:3I:366:ARG:HA	31:3I:366:ARG:HD3	1.90	0.40
31:3I:467:ARG:HD3	13:8f:430:LYS:NZ	2.23	0.40
32:3J:44:LEU:HD23	32:3J:68:ILE:HG22	2.03	0.40
32:3K:57:GLU:HB3	32:3K:60:LYS:CE	2.49	0.40
32:3K:358:ARG:O	32:3K:358:ARG:HD2	2.21	0.40
33:3L:197:LEU:HD22	12:7e:389:PHE:CD2	2.56	0.40
34:3M:76:GLU:O	34:3M:80:LEU:HG	2.22	0.40
34:3M:251:LEU:HD23	34:3M:251:LEU:C	2.46	0.40
34:3M:386:HIS:O	34:3M:390:LEU:HG	2.22	0.40
34:3O:362:PRO:HG3	34:3O:371:ALA:HB2	2.03	0.40
34:3P:36:ILE:HG13	34:3P:37:ASN:N	2.37	0.40
34:3P:54:GLU:OE1	34:3P:55:GLN:HG2	2.21	0.40
34:3P:89:ILE:HD12	34:3P:404:HIS:ND1	2.36	0.40
34:3P:259:MET:O	34:3P:262:THR:HG22	2.21	0.40
34:3R:95:ARG:CD	34:4B:235:LEU:HG	2.52	0.40
34:3T:69:ALA:O	34:3T:73:VAL:HG23	2.22	0.40
34:3X:258:TYR:O	34:3X:262:THR:HG23	2.21	0.40
34:3X:324:HIS:O	34:3X:328:MET:HG2	2.20	0.40
13:3f:175:PRO:O	13:3f:394:LYS:NZ	2.46	0.40
13:3f:296:PHE:HZ	13:3f:351:PHE:HE1	1.70	0.40
13:3f:392:ASP:OD1	13:3f:425:LEU:HD23	2.21	0.40
12:3g:208:TYR:CE1	12:3g:225:LEU:HD11	2.56	0.40
34:4B:359:ARG:HB3	34:4B:361:LEU:CD2	2.52	0.40
35:4C:517:MET:O	35:4C:518:LEU:HD23	2.20	0.40
35:4C:521:ARG:O	35:4C:524:ASP:HB2	2.21	0.40
35:4C:762:SER:O	35:4C:766:ILE:HG13	2.21	0.40
35:4C:805:PRO:HA	35:4C:857:ALA:CB	2.49	0.40
36:4D:69:LEU:HD21	36:4D:103:LEU:HD23	2.04	0.40
37:4E:610:ALA:O	37:4E:617:VAL:HA	2.22	0.40
37:4E:1123:LEU:HD22	43:5L:137:ARG:HB2	2.03	0.40
37:4E:1525:LEU:HD13	37:4E:1613:TYR:CE1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4F:773:ARG:HH22	37:4F:1622:PRO:HD2	1.85	0.40
37:4F:898:PRO:HB2	37:4F:901:VAL:CG1	2.47	0.40
37:4F:934:TRP:HE3	37:4F:959:LEU:HB2	1.86	0.40
37:4F:973:HIS:CE1	37:4F:976:ASP:HB2	2.57	0.40
37:4F:1082:LEU:CD2	38:4N:39:HIS:O	2.70	0.40
37:4F:1333:VAL:CG1	38:4N:30:ALA:CA	2.96	0.40
37:4F:1334:GLU:HA	37:4F:1340:PRO:HA	2.02	0.40
37:4F:1335:MET:N	38:4N:28:VAL:O	2.53	0.40
37:4F:1339:ALA:O	38:4N:31:ALA:HB3	2.18	0.40
37:4G:428:VAL:HA	37:4G:853:VAL:O	2.21	0.40
37:4G:538:GLU:O	37:4G:539:GLN:C	2.63	0.40
37:4G:827:PRO:HB3	37:4G:852:LYS:O	2.22	0.40
37:4G:1323:ILE:CG1	38:4L:26:GLU:OE2	2.69	0.40
37:4H:773:ARG:HH22	37:4H:1622:PRO:HD2	1.85	0.40
37:4H:871:ALA:HB2	37:4H:885:MET:SD	2.61	0.40
38:4M:38:VAL:O	38:4M:41:LYS:HB3	2.21	0.40
38:4M:64:GLY:O	38:4M:65:MET:C	2.64	0.40
38:4N:75:ASN:O	38:4N:77:VAL:N	2.54	0.40
39:4R:103:TRP:CZ2	44:5O:128:MET:HA	2.56	0.40
39:4S:171:SER:OG	39:4S:172:THR:N	2.51	0.40
40:4T:535:GLU:HA	40:4T:538:ARG:HG3	2.03	0.40
40:4T:730:ARG:HH21	40:4T:818:MET:HB3	1.86	0.40
40:4U:50:LEU:HG	40:4U:77:VAL:CG2	2.51	0.40
40:4V:822:TRP:CZ3	40:4V:826:ALA:CB	3.04	0.40
13:4b:175:PRO:HB3	13:4b:390:ARG:HE	1.87	0.40
13:4b:277:SER:C	13:4b:369:ALA:HB2	2.47	0.40
12:4e:372:THR:HA	12:4e:422:TYR:CD1	2.57	0.40
13:4f:277:SER:C	13:4f:369:ALA:HB2	2.47	0.40
12:4g:23:VAL:HA	12:4g:26:ASP:OD1	2.20	0.40
12:4g:113:ILE:HD12	12:4g:116:VAL:HG21	2.03	0.40
13:4h:3:GLU:HA	13:4h:51:THR:HA	2.03	0.40
13:4h:139:ASN:OD1	13:4h:140:ALA:N	2.55	0.40
13:4h:277:SER:C	13:4h:369:ALA:HB2	2.47	0.40
41:5A:20:GLU:O	43:5L:191:LYS:CB	2.69	0.40
41:5A:21:GLY:CA	43:5L:191:LYS:N	2.69	0.40
41:5A:72:LYS:O	41:5A:73:ARG:C	2.64	0.40
41:5A:140:GLU:O	43:5L:167:PRO:CB	2.68	0.40
42:5G:26:GLU:OE2	42:5G:26:GLU:N	2.43	0.40
42:5H:129:MET:HB3	42:5H:134:LEU:CD1	2.51	0.40
42:5H:136:HIS:CB	43:5L:146:TYR:CE2	3.01	0.40
42:5H:139:LEU:HA	43:5L:146:TYR:CA	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:5I:55:TYR:CG	43:5I:76:PHE:CE2	3.09	0.40
43:5K:16:GLU:HA	43:5K:18:ILE:H	1.86	0.40
43:5K:139:TYR:HA	43:5K:142:TYR:HB2	2.04	0.40
44:5S:41:ARG:HE	44:5S:52:LEU:HD11	1.86	0.40
44:5U:97:ASP:HB3	44:5U:104:ILE:HD11	2.02	0.40
44:5V:132:ALA:HA	44:5V:148:MET:HE1	2.04	0.40
12:5a:406:MET:HE3	12:5a:406:MET:HB3	1.90	0.40
13:5d:224:TYR:CD2	12:5e:245:GLN:HG2	2.56	0.40
13:5f:300:SER:O	13:5f:300:SER:OG	2.39	0.40
13:5h:139:ASN:OD1	13:5h:140:ALA:N	2.55	0.40
13:5h:277:SER:C	13:5h:369:ALA:HB2	2.47	0.40
13:5h:300:SER:O	13:5h:300:SER:OG	2.39	0.40
13:5h:387:ILE:H	13:5h:387:ILE:HG23	1.65	0.40
47:6A:41:GLN:OE1	47:6A:41:GLN:HA	2.22	0.40
47:6A:1772:LEU:HD23	47:6A:1772:LEU:HA	1.61	0.40
47:6B:50:LYS:O	47:6B:51:ARG:HB2	2.22	0.40
47:6B:69:ASN:HD21	47:6B:133:GLU:HB2	1.86	0.40
47:6B:389:ALA:HA	47:6B:392:LEU:HD12	2.03	0.40
47:6B:562:HIS:CD2	47:6B:807:ALA:HB2	2.56	0.40
47:6B:782:ARG:HG3	47:6B:788:ASP:OD1	2.20	0.40
47:6B:1164:LEU:CD1	47:6B:1309:HIS:HB3	2.51	0.40
47:6B:1575:ARG:HA	47:6B:1618:TYR:CD1	2.56	0.40
3:6D:558:THR:HG21	3:6D:607:SER:OG	2.21	0.40
3:6D:611:ARG:O	3:6D:615:LEU:HG	2.20	0.40
3:6D:668:PHE:HZ	3:6D:677:HIS:HB3	1.86	0.40
3:6D:972:VAL:O	3:6D:976:VAL:HG23	2.21	0.40
48:6E:647:TRP:HB2	48:6E:665:TRP:CD2	2.57	0.40
48:6E:800:LEU:HA	49:6I:17:GLU:CD	2.46	0.40
48:6E:835:GLU:OE1	48:6E:839:GLY:O	2.40	0.40
48:6E:883:LYS:HA	48:6E:915:PHE:O	2.22	0.40
48:6F:835:GLU:OE1	48:6F:839:GLY:O	2.40	0.40
48:6F:997:ARG:HH12	50:6L:427:PRO:HG2	1.86	0.40
49:6G:182:ASN:HD21	49:6G:433:ALA:HB2	1.86	0.40
49:6H:150:ALA:O	49:6H:154:LEU:HD12	2.21	0.40
49:6H:452:ASN:HA	49:6H:455:LEU:HD12	2.02	0.40
49:6I:20:LEU:HD23	49:6I:20:LEU:HA	1.88	0.40
49:6I:301:ASP:OD1	49:6I:303:ASP:N	2.42	0.40
50:6K:74:LEU:HD12	50:6K:74:LEU:HA	1.93	0.40
50:6K:471:PRO:HA	50:6K:472:PRO:HD3	1.85	0.40
51:6M:1352:HIS:HB3	51:6M:1418:LEU:HD13	2.03	0.40
51:6M:1467:VAL:HG22	51:6M:1468:VAL:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:6M:2057:THR:HG23	51:6M:2093:ALA:HB1	2.03	0.40
51:6N:1467:VAL:HG22	51:6N:1468:VAL:N	2.36	0.40
51:6N:1606:LEU:HA	51:6N:1703:VAL:HG13	2.03	0.40
51:6N:2057:THR:HG23	51:6N:2093:ALA:HB1	2.03	0.40
13:6b:296:PHE:HZ	13:6b:351:PHE:HE1	1.70	0.40
12:6c:256:ASN:ND2	12:6c:350:LYS:HE3	2.36	0.40
13:6d:139:ASN:OD1	13:6d:140:ALA:N	2.55	0.40
13:6d:203:MET:HE2	13:6d:267:PHE:HB3	2.03	0.40
13:6d:296:PHE:HZ	13:6d:351:PHE:HE1	1.70	0.40
13:6f:3:GLU:HA	13:6f:51:THR:HA	2.03	0.40
13:6f:203:MET:HE2	13:6f:267:PHE:HB3	2.03	0.40
13:6f:296:PHE:HZ	13:6f:351:PHE:HE1	1.70	0.40
12:7a:374:ILE:HD11	12:7a:422:TYR:CZ	2.57	0.40
13:7d:179:THR:OG1	54:7e:501:GTP:O3'	2.37	0.40
13:7d:288:VAL:HG21	13:7d:327:ASP:HB3	2.02	0.40
12:7e:286:VAL:N	12:7e:287:PRO:HD2	2.37	0.40
12:7e:381:VAL:HB	12:7e:415:MET:HE1	2.03	0.40
13:7f:8:HIS:HB3	13:7f:13:GLY:O	2.21	0.40
13:7f:287:SER:O	13:7f:291:ILE:HG12	2.21	0.40
13:7h:287:SER:O	13:7h:291:ILE:HG12	2.21	0.40
13:7h:392:ASP:OD1	13:7h:425:LEU:HD23	2.21	0.40
12:8a:151:LEU:O	12:8a:155:ILE:HG12	2.21	0.40
12:8c:97:ALA:O	12:8c:99:ASN:N	2.53	0.40
13:8f:8:HIS:HB3	13:8f:13:GLY:O	2.21	0.40
13:8f:288:VAL:HG21	13:8f:327:ASP:HB3	2.02	0.40
13:8f:296:PHE:HZ	13:8f:351:PHE:HE1	1.70	0.40
13:8h:313:MET:HG3	13:8h:381:SER:HA	2.02	0.40
12:9a:225:LEU:O	12:9a:229:ILE:HG13	2.20	0.40
12:9a:263:LEU:HD21	12:9a:421:GLU:HG3	2.04	0.40
12:9c:97:ALA:O	12:9c:99:ASN:N	2.54	0.40
13:9d:203:MET:HE2	13:9d:267:PHE:HB3	2.03	0.40
13:9d:206:ASN:OD1	54:9e:501:GTP:N2	2.49	0.40
12:9g:68:LEU:HB3	12:9g:96:GLY:HA2	2.04	0.40
12:Ac:21:TRP:CD1	12:Ac:85:PHE:HE1	2.39	0.40
13:Ad:392:ASP:OD1	13:Ad:425:LEU:HD23	2.21	0.40
12:Ae:65:LEU:HD22	12:Ae:90:PHE:CE2	2.56	0.40
12:Ae:171:PRO:HA	12:Ae:181:GLU:OE2	2.21	0.40
12:Ae:372:THR:HA	12:Ae:422:TYR:CD1	2.57	0.40
12:Ae:374:ILE:HD11	12:Ae:422:TYR:CZ	2.56	0.40
13:Af:52:PHE:HZ	13:Af:239:THR:HG21	1.85	0.40
13:Af:175:PRO:HB3	13:Af:390:ARG:HE	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Af:246:GLY:N	13:Af:249:ASN:OD1	2.43	0.40
12:Ag:3:GLU:HG3	12:Ag:48:ASN:O	2.22	0.40
12:Ag:86:ARG:HB3	12:Ag:88:ASP:OD1	2.22	0.40
12:Ag:141:GLY:O	12:Ag:145:SER:HB3	2.22	0.40
13:Ah:203:MET:HE2	13:Ah:267:PHE:HB3	2.03	0.40
13:Ah:296:PHE:HZ	13:Ah:351:PHE:HE1	1.70	0.40
12:Ba:139:LEU:O	12:Ba:171:PRO:HD3	2.21	0.40
12:Ba:282:ARG:HH12	12:Ba:292:GLN:CD	2.30	0.40
13:Bb:206:ASN:OD1	54:Bb:501:GTP:N2	2.49	0.40
12:Be:222:PHE:CE1	13:Bf:325:PRO:HB3	2.56	0.40
13:Bf:317:LEU:HB3	13:Bf:319:TYR:CE1	2.53	0.40
13:Bh:313:MET:HG3	13:Bh:381:SER:HA	2.02	0.40
13:Cb:3:GLU:HA	13:Cb:51:THR:HA	2.03	0.40
12:Cc:5:VAL:HG23	12:Cc:130:LEU:HD11	2.02	0.40
12:Cg:64:ILE:HD13	12:Cg:120:VAL:HG22	2.03	0.40
12:Cg:178:THR:OG1	12:Cg:181:GLU:OE2	2.33	0.40
13:Db:286:LEU:O	13:Db:373:ARG:NE	2.53	0.40
12:Dc:163:MET:HE3	12:Dc:251:ARG:HA	2.02	0.40
12:Dc:208:TYR:CE1	12:Dc:225:LEU:HD11	2.56	0.40
12:De:374:ILE:HD11	12:De:422:TYR:CZ	2.57	0.40
12:De:381:VAL:HB	12:De:415:MET:HE1	2.03	0.40
1:0H:184:LYS:HE3	1:0H:217:LEU:HD11	2.03	0.40
1:0I:134:LEU:HB2	1:0I:171:LEU:HD13	2.03	0.40
1:0K:33:ASN:O	1:0K:37:LEU:HG	2.20	0.40
1:0K:112:ARG:NH2	1:0K:113:HIS:NE2	2.69	0.40
1:0K:320:ILE:HD11	1:0K:331:VAL:CG2	2.51	0.40
1:0E:253:PHE:HA	1:0E:256:ILE:HB	2.02	0.40
1:0G:290:VAL:HG22	1:0G:295:VAL:HG21	2.03	0.40
1:0L:28:ALA:O	1:0L:34:ILE:HD11	2.21	0.40
1:0N:85:LEU:HG	1:0N:124:SER:OG	2.22	0.40
1:0O:12:ARG:O	1:0O:16:GLU:HG2	2.22	0.40
1:0P:184:LYS:HE3	1:0P:217:LEU:HD11	2.03	0.40
1:0R:24:VAL:HG11	1:0R:46:LEU:HD21	2.02	0.40
1:0R:85:LEU:HD21	1:0R:121:VAL:HA	2.04	0.40
1:0V:330:SER:O	1:0V:334:GLU:HG2	2.21	0.40
1:0X:128:ASP:O	1:0X:131:VAL:HG22	2.22	0.40
1:0Y:269:LYS:HE2	1:0Y:269:LYS:HB3	1.81	0.40
1:0Z:153:ALA:HA	1:0Z:160:ALA:HB2	2.03	0.40
1:1A:411:LEU:C	1:1A:411:LEU:HD23	2.47	0.40
1:1B:399:LYS:HD3	1:1B:399:LYS:HA	1.79	0.40
2:1D:83:SER:O	2:1D:87:LYS:HG2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:311:ALA:O	2:1D:314:VAL:HG22	2.21	0.40
2:1D:343:LEU:O	2:1D:347:LEU:HG	2.22	0.40
2:1E:56:LEU:HD23	2:1G:25:PHE:HE1	1.87	0.40
2:1F:14:VAL:HB	13:Ah:423:GLU:OE2	2.21	0.40
3:1H:95:THR:O	3:1H:96:ALA:HB2	2.22	0.40
3:1I:616:TYR:OH	3:1I:625:ALA:HB1	2.22	0.40
4:1J:207:THR:OG1	4:1J:208:LYS:N	2.55	0.40
5:1L:384:VAL:O	5:1L:471:SER:HA	2.21	0.40
5:1M:560:MET:HE2	13:1f:262:TYR:CD2	2.57	0.40
6:1N:142:PHE:CZ	6:1N:143:LEU:HG	2.57	0.40
6:1N:417:LEU:CA	6:1N:420:VAL:HG12	2.48	0.40
6:1N:723:TRP:CH2	8:1P:737:ARG:HD2	2.56	0.40
6:1N:1811:ARG:NH2	6:1N:1853:ASP:HB2	2.36	0.40
6:1N:2494:GLU:OE1	6:1N:2725:LEU:HD22	2.22	0.40
7:1O:664:LEU:HD12	7:1O:665:VAL:N	2.37	0.40
7:1O:960:LEU:HD11	7:1O:994:LEU:C	2.47	0.40
7:1O:1873:MET:N	7:1O:1874:PRO:HD2	2.37	0.40
10:1R:391:SER:N	10:1R:394:ARG:HH21	2.10	0.40
10:1R:392:LEU:HD23	13:Bb:293:ASN:O	2.21	0.40
10:1S:375:GLU:HA	10:1S:378:LEU:HG	2.04	0.40
13:1b:3:GLU:HA	13:1b:51:THR:HA	2.03	0.40
12:1c:5:VAL:HG23	12:1c:130:LEU:HD11	2.03	0.40
12:1c:208:TYR:CE1	12:1c:225:LEU:HD11	2.57	0.40
13:1d:203:MET:HE2	13:1d:267:PHE:HB3	2.03	0.40
13:1h:175:PRO:HB3	13:1h:390:ARG:HE	1.87	0.40
14:2F:147:ILE:CD1	12:Aa:75:SER:HA	2.51	0.40
24:2T:199:ARG:HH12	24:2T:202:ARG:HB2	1.86	0.40
12:2a:139:LEU:HD22	12:2a:188:SER:OG	2.22	0.40
13:2b:112:LYS:HA	13:2b:112:LYS:HD3	1.86	0.40
12:2c:7:ILE:HG21	12:2c:151:LEU:HD23	2.02	0.40
12:2c:127:CYS:SG	12:2c:130:LEU:HD13	2.61	0.40
13:2d:8:HIS:HB3	13:2d:13:GLY:O	2.21	0.40
13:2d:20:CYS:HA	13:2d:232:ALA:HB1	2.04	0.40
13:2d:334:THR:HA	13:2d:337:THR:HG22	2.03	0.40
12:2e:186:THR:O	12:2e:189:VAL:HG12	2.22	0.40
13:2f:20:CYS:HA	13:2f:232:ALA:HB1	2.04	0.40
54:2f:501:GTP:H8	12:2g:246:LEU:HD13	1.86	0.40
12:2g:104:GLY:O	12:2g:147:MET:HG3	2.21	0.40
12:2g:244:GLY:HA2	12:2g:354:CYS:HA	2.04	0.40
31:3I:322:LEU:HD13	31:3I:326:GLN:NE2	2.37	0.40
32:3J:252:LEU:HD23	32:3J:252:LEU:HA	1.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:3J:358:ARG:HD2	12:9a:390:ARG:CB	2.44	0.40
32:3K:81:ILE:HB	32:3K:124:ARG:HG3	2.02	0.40
34:3M:35:GLN:NE2	34:3M:460:ARG:HD2	2.37	0.40
34:3M:60:TYR:CE1	34:3M:298:ALA:HB1	2.56	0.40
34:3N:70:GLU:OE2	34:3N:192:TYR:HB3	2.21	0.40
34:3N:471:ARG:O	34:3N:475:MET:HG2	2.21	0.40
34:3O:254:MET:HE2	34:3O:254:MET:N	2.37	0.40
34:3P:49:PHE:CD1	34:3P:288:MET:HE1	2.56	0.40
34:3P:326:GLU:O	34:3P:330:GLU:HG3	2.21	0.40
34:3R:100:ILE:HA	34:3R:103:LEU:CD2	2.52	0.40
34:3R:258:TYR:CB	34:3R:474:TRP:HD1	2.35	0.40
34:3U:438:ILE:HD13	34:3U:438:ILE:HA	1.80	0.40
34:3W:75:GLN:HG2	34:3W:419:LEU:HD22	2.03	0.40
34:3W:359:ARG:HB3	34:3W:361:LEU:CD2	2.52	0.40
34:3X:257:LYS:HD3	34:3X:261:ARG:NH2	2.36	0.40
34:3Y:455:THR:O	34:3Y:459:ILE:HG13	2.21	0.40
12:3a:221:THR:HG22	12:3a:224:ASP:OD2	2.22	0.40
12:3a:284:LEU:HD21	12:3a:363:MET:H	1.86	0.40
13:3b:179:THR:HA	12:3c:351:SER:OG	2.22	0.40
13:3b:210:TYR:CG	12:3c:324:LYS:HD3	2.55	0.40
13:3d:277:SER:C	13:3d:369:ALA:HB2	2.47	0.40
12:3g:161:ASP:OD1	12:3g:161:ASP:N	2.50	0.40
13:3h:3:GLU:HA	13:3h:51:THR:HA	2.03	0.40
13:3h:277:SER:C	13:3h:369:ALA:HB2	2.47	0.40
13:3h:296:PHE:HZ	13:3h:351:PHE:HE1	1.70	0.40
34:4A:356:PHE:HZ	34:4A:378:SER:HB2	1.87	0.40
34:4B:193:LEU:HD12	34:4B:193:LEU:H	1.87	0.40
35:4C:455:TRP:HE3	35:4C:470:ASN:C	2.30	0.40
37:4E:1088:ASP:C	37:4E:1140:ARG:HH21	2.29	0.40
37:4E:1736:ARG:HB3	37:4E:1739:GLN:CG	2.52	0.40
37:4F:1333:VAL:HG12	38:4N:30:ALA:CA	2.35	0.40
37:4G:407:GLU:O	37:4G:411:THR:HG23	2.21	0.40
37:4G:789:ALA:HA	38:4I:63:GLN:NE2	2.36	0.40
37:4G:1101:LEU:HA	37:4G:1101:LEU:HD23	1.85	0.40
37:4G:1734:PHE:HD2	37:4G:1736:ARG:HH12	1.63	0.40
38:4I:25:PRO:O	38:4I:26:GLU:C	2.56	0.40
38:4K:32:GLU:CG	38:4K:33:LYS:HZ2	2.34	0.40
38:4K:38:VAL:O	38:4K:41:LYS:HB3	2.21	0.40
38:4M:58:VAL:N	38:4M:59:PRO:HD2	2.37	0.40
38:4M:72:ARG:HA	38:4M:73:PRO:HD3	1.80	0.40
39:4Q:138:LEU:O	39:4Q:142:ARG:HD3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:4R:68:ARG:HB3	44:5Q:41:ARG:HH12	1.87	0.40
40:4U:251:LEU:HD23	40:4U:258:LEU:HD22	2.03	0.40
40:4V:535:GLU:HA	40:4V:538:ARG:HG3	2.03	0.40
13:4d:277:SER:C	13:4d:369:ALA:HB2	2.47	0.40
13:4f:139:ASN:OD1	13:4f:140:ALA:N	2.55	0.40
13:4f:175:PRO:HB3	13:4f:390:ARG:HE	1.87	0.40
13:4h:8:HIS:HB3	13:4h:13:GLY:O	2.21	0.40
13:4h:175:PRO:HB3	13:4h:390:ARG:HE	1.87	0.40
42:5H:136:HIS:CA	43:5L:50:ILE:CA	3.00	0.40
42:5H:158:MET:O	43:5L:158:HIS:CG	2.71	0.40
43:5J:51:HIS:HB3	43:5J:55:TYR:CZ	2.57	0.40
44:5S:137:ASP:OD2	44:5S:138:GLY:N	2.51	0.40
12:5a:94:GLN:NE2	13:5b:1:MET:HG2	2.37	0.40
12:5a:327:ASP:OD1	12:5a:328:GLU:N	2.55	0.40
12:5c:107:THR:OG1	12:5c:108:GLU:N	2.54	0.40
12:5c:179:VAL:HG23	13:5d:352:LYS:HB2	2.02	0.40
13:5d:20:CYS:HA	13:5d:232:ALA:HB1	2.04	0.40
47:6A:50:LYS:O	47:6A:51:ARG:HB2	2.22	0.40
47:6A:69:ASN:HD21	47:6A:133:GLU:HB2	1.86	0.40
47:6A:438:THR:HB	48:6F:211:ARG:HH22	1.87	0.40
47:6A:1240:GLY:HA3	51:6M:2361:ALA:HB1	2.04	0.40
47:6A:1599:THR:O	51:6M:2051:GLU:OE2	2.40	0.40
47:6A:1815:GLY:O	47:6A:1818:PRO:HD2	2.22	0.40
47:6B:69:ASN:HA	47:6B:136:LYS:HD2	2.03	0.40
47:6B:289:GLN:O	47:6B:289:GLN:HG3	2.20	0.40
47:6B:1815:GLY:O	47:6B:1818:PRO:HD2	2.22	0.40
3:6D:113:VAL:O	3:6D:116:ILE:HB	2.22	0.40
48:6E:130:LEU:HD12	48:6E:132:LEU:HG	2.03	0.40
48:6F:104:GLU:HG3	48:6F:105:LEU:H	1.86	0.40
48:6F:512:ALA:HA	48:6F:513:PRO:HD3	1.94	0.40
48:6F:883:LYS:HA	48:6F:915:PHE:O	2.22	0.40
49:6G:284:ILE:HG13	49:6G:285:GLY:N	2.37	0.40
49:6G:460:GLU:HG3	49:6G:460:GLU:H	1.57	0.40
49:6H:300:TYR:OH	49:6H:341:GLU:HB2	2.22	0.40
49:6I:2:SER:N	49:6I:5:GLU:HB2	2.36	0.40
49:6I:150:ALA:O	49:6I:154:LEU:HD12	2.21	0.40
49:6I:269:VAL:CG2	49:6I:284:ILE:HD13	2.42	0.40
49:6I:274:GLU:OE1	49:6I:275:LYS:HG3	2.21	0.40
49:6J:192:PHE:HB2	49:6J:212:ILE:CG1	2.50	0.40
49:6J:300:TYR:OH	49:6J:341:GLU:HB2	2.22	0.40
50:6K:152:ALA:HA	50:6K:178:ASN:HD22	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:6K:332:MET:SD	50:6K:337:VAL:HG22	2.62	0.40
50:6L:119:GLU:OE2	50:6L:161:ALA:HA	2.22	0.40
50:6L:152:ALA:HA	50:6L:178:ASN:HD22	1.85	0.40
50:6L:156:ASP:HB2	50:6L:462:LEU:HD11	2.03	0.40
51:6M:1295:LYS:HE3	51:6M:1295:LYS:HB2	1.89	0.40
51:6M:1606:LEU:HA	51:6M:1703:VAL:HG13	2.03	0.40
51:6M:2263:CYS:SG	51:6M:2267:MET:N	2.85	0.40
51:6N:2285:LEU:HD12	51:6N:2286:ARG:H	1.86	0.40
51:6N:2472:GLN:NE2	51:6N:2473:ARG:HG3	2.36	0.40
12:6a:106:TYR:HE1	12:6a:403:MET:HE1	1.87	0.40
13:6b:139:ASN:OD1	13:6b:140:ALA:N	2.55	0.40
12:6c:104:GLY:O	12:6c:147:MET:HG3	2.22	0.40
13:6f:139:ASN:OD1	13:6f:140:ALA:N	2.55	0.40
13:6f:370:LYS:HB3	13:6f:370:LYS:HE2	1.92	0.40
13:6h:139:ASN:OD1	13:6h:140:ALA:N	2.55	0.40
13:6h:203:MET:HE2	13:6h:267:PHE:HB3	2.03	0.40
12:7a:263:LEU:HD21	12:7a:421:GLU:HG3	2.02	0.40
13:7b:119:LEU:HD11	13:7b:156:ARG:HB3	2.03	0.40
13:7b:139:ASN:OD1	13:7b:140:ALA:N	2.55	0.40
12:7c:284:LEU:HD23	12:7c:362:LYS:HD3	2.03	0.40
13:7d:122:ILE:HD13	13:7d:157:LEU:HD21	2.04	0.40
13:7d:139:ASN:OD1	13:7d:140:ALA:N	2.55	0.40
13:7f:122:ILE:HD13	13:7f:157:LEU:HD21	2.04	0.40
13:7f:139:ASN:OD1	13:7f:140:ALA:N	2.55	0.40
12:7g:248:ALA:CB	12:7g:252:LYS:HD2	2.51	0.40
13:7h:122:ILE:HD13	13:7h:157:LEU:HD21	2.04	0.40
12:8a:19:LYS:O	12:8a:23:VAL:HG23	2.20	0.40
12:8a:337:ASN:HB3	12:8a:340:TYR:HD2	1.87	0.40
13:8b:8:HIS:HB3	13:8b:13:GLY:O	2.21	0.40
13:8b:112:LYS:HA	13:8b:112:LYS:HD3	1.86	0.40
13:8b:296:PHE:HZ	13:8b:351:PHE:HE1	1.70	0.40
13:8d:296:PHE:HZ	13:8d:351:PHE:HE1	1.70	0.40
13:8d:392:ASP:OD1	13:8d:425:LEU:HD23	2.21	0.40
12:8e:154:LYS:O	12:8e:158:GLU:HG2	2.21	0.40
13:8f:119:LEU:HD11	13:8f:156:ARG:HB3	2.03	0.40
13:8f:139:ASN:OD1	13:8f:140:ALA:N	2.55	0.40
13:8f:175:PRO:HB3	13:8f:390:ARG:HE	1.87	0.40
12:8g:102:ALA:HB2	12:8g:403:MET:HE2	2.04	0.40
13:8h:175:PRO:HB3	13:8h:390:ARG:HE	1.87	0.40
13:9b:8:HIS:HB3	13:9b:13:GLY:O	2.21	0.40
12:9e:55:THR:HG23	12:Ae:283:ALA:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:9e:68:LEU:HB3	12:9e:95:THR:O	2.22	0.40
12:9e:106:TYR:HE1	12:9e:403:MET:HE1	1.86	0.40
12:9e:108:GLU:HA	12:9e:111:GLU:OE1	2.21	0.40
12:9e:238:CYS:SG	12:9e:239:CYS:N	2.93	0.40
13:9h:119:LEU:HD11	13:9h:156:ARG:HB3	2.03	0.40
13:9h:296:PHE:HZ	13:9h:351:PHE:HE1	1.70	0.40
12:Aa:52:ASN:HB3	12:Aa:60:VAL:CG2	2.51	0.40
12:Aa:113:ILE:HD13	12:Aa:150:LEU:HG	2.04	0.40
12:Aa:154:LYS:O	12:Aa:158:GLU:HG2	2.22	0.40
13:Ab:296:PHE:HZ	13:Ab:351:PHE:HE1	1.70	0.40
13:Ad:175:PRO:HB3	13:Ad:390:ARG:HE	1.87	0.40
12:Ae:68:LEU:HD23	12:Ae:143:THR:HG23	2.02	0.40
12:Ae:77:ARG:NH2	12:Ae:90:PHE:CG	2.90	0.40
13:Af:122:ILE:HD13	13:Af:157:LEU:HD21	2.04	0.40
13:Af:296:PHE:HZ	13:Af:351:PHE:HE1	1.70	0.40
13:Af:334:THR:HA	13:Af:337:THR:HG22	2.03	0.40
12:Ag:27:GLU:OE2	12:Ag:318:ARG:NH2	2.39	0.40
13:Bb:287:SER:O	13:Bb:291:ILE:HG12	2.21	0.40
13:Bd:206:ASN:OD1	54:Bd:501:GTP:N2	2.49	0.40
13:Bd:313:MET:HG3	13:Bd:381:SER:HA	2.02	0.40
12:Be:154:LYS:O	12:Be:158:GLU:HG2	2.22	0.40
12:Ca:2:ARG:NH1	12:Ca:249:ASP:OD1	2.54	0.40
12:Ca:73:MET:CE	12:Ca:92:PHE:HB3	2.51	0.40
13:Cb:175:PRO:HB3	13:Cb:390:ARG:HE	1.87	0.40
12:Cc:210:ILE:O	12:Cc:214:THR:OG1	2.27	0.40
12:Cc:248:ALA:CB	12:Cc:252:LYS:HD2	2.52	0.40
12:Cc:257:LEU:O	12:Cc:259:PRO:HD3	2.22	0.40
13:Cd:122:ILE:HD13	13:Cd:157:LEU:HD21	2.04	0.40
13:Cd:277:SER:C	13:Cd:369:ALA:HB2	2.47	0.40
12:Ce:326:VAL:O	12:Ce:330:MET:HG2	2.21	0.40
13:Cf:122:ILE:HD13	13:Cf:157:LEU:HD21	2.04	0.40
13:Cf:210:TYR:CE1	12:Cg:324:LYS:HB2	2.57	0.40
13:Cf:248:LEU:HD23	13:Cf:248:LEU:HA	1.79	0.40
13:Ch:145:THR:OG1	54:Ch:501:GTP:O3B	2.31	0.40
12:De:154:LYS:O	12:De:158:GLU:HG2	2.21	0.40
12:De:208:TYR:CE1	12:De:225:LEU:HD11	2.56	0.40
1:0H:276:ARG:HA	1:0H:316:ALA:HB2	2.04	0.40
1:0J:401:ARG:O	1:0J:405:LYS:HG2	2.21	0.40
1:0K:92:LEU:HD12	1:0K:129:SER:HA	2.02	0.40
44:5P:141:ASN:HB3	44:5P:144:GLU:HB3	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	0A	497/512 (97%)	486 (98%)	10 (2%)	1 (0%)	43	72
1	0B	497/512 (97%)	485 (98%)	10 (2%)	2 (0%)	30	61
1	0C	497/512 (97%)	488 (98%)	8 (2%)	1 (0%)	43	72
1	0D	497/512 (97%)	486 (98%)	10 (2%)	1 (0%)	43	72
1	0E	497/512 (97%)	486 (98%)	10 (2%)	1 (0%)	43	72
1	0F	497/512 (97%)	484 (97%)	12 (2%)	1 (0%)	43	72
1	0G	497/512 (97%)	484 (97%)	11 (2%)	2 (0%)	30	61
1	0H	497/512 (97%)	484 (97%)	12 (2%)	1 (0%)	43	72
1	0I	497/512 (97%)	486 (98%)	10 (2%)	1 (0%)	43	72
1	0J	497/512 (97%)	489 (98%)	8 (2%)	0	100	100
1	0K	497/512 (97%)	492 (99%)	5 (1%)	0	100	100
1	0L	497/512 (97%)	487 (98%)	9 (2%)	1 (0%)	43	72
1	0M	497/512 (97%)	485 (98%)	10 (2%)	2 (0%)	30	61
1	0N	497/512 (97%)	487 (98%)	9 (2%)	1 (0%)	43	72
1	0O	497/512 (97%)	488 (98%)	8 (2%)	1 (0%)	43	72
1	0P	497/512 (97%)	484 (97%)	12 (2%)	1 (0%)	43	72
1	0Q	497/512 (97%)	486 (98%)	10 (2%)	1 (0%)	43	72
1	0R	497/512 (97%)	486 (98%)	10 (2%)	1 (0%)	43	72
1	0S	497/512 (97%)	485 (98%)	11 (2%)	1 (0%)	43	72
1	0T	497/512 (97%)	488 (98%)	8 (2%)	1 (0%)	43	72
1	0U	497/512 (97%)	487 (98%)	9 (2%)	1 (0%)	43	72
1	0V	497/512 (97%)	487 (98%)	9 (2%)	1 (0%)	43	72
1	0W	497/512 (97%)	485 (98%)	10 (2%)	2 (0%)	30	61
1	0X	497/512 (97%)	487 (98%)	9 (2%)	1 (0%)	43	72
1	0Y	497/512 (97%)	484 (97%)	11 (2%)	2 (0%)	30	61

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0Z	497/512 (97%)	488 (98%)	8 (2%)	1 (0%)	43	72
1	1A	497/512 (97%)	487 (98%)	9 (2%)	1 (0%)	43	72
1	1B	497/512 (97%)	488 (98%)	9 (2%)	0	100	100
1	1C	497/512 (97%)	491 (99%)	6 (1%)	0	100	100
2	1D	500/571 (88%)	453 (91%)	39 (8%)	8 (2%)	7	36
2	1E	500/571 (88%)	454 (91%)	37 (7%)	9 (2%)	6	34
2	1F	512/571 (90%)	464 (91%)	43 (8%)	5 (1%)	12	45
2	1G	512/571 (90%)	464 (91%)	41 (8%)	7 (1%)	9	38
3	1H	791/1102 (72%)	764 (97%)	22 (3%)	5 (1%)	21	54
3	1I	791/1102 (72%)	769 (97%)	18 (2%)	4 (0%)	24	57
3	6D	787/1102 (71%)	766 (97%)	18 (2%)	3 (0%)	30	61
4	1J	392/3965 (10%)	344 (88%)	39 (10%)	9 (2%)	5	30
4	1K	392/3965 (10%)	344 (88%)	39 (10%)	9 (2%)	5	30
5	1L	540/2939 (18%)	476 (88%)	61 (11%)	3 (1%)	21	54
5	1M	540/2939 (18%)	476 (88%)	61 (11%)	3 (1%)	21	54
6	1N	2132/2784 (77%)	2080 (98%)	51 (2%)	1 (0%)	100	100
7	1O	2594/3225 (80%)	2506 (97%)	84 (3%)	4 (0%)	43	72
8	1P	291/1023 (28%)	274 (94%)	15 (5%)	2 (1%)	18	51
9	1Q	423/945 (45%)	336 (79%)	59 (14%)	28 (7%)	1	12
10	1R	351/446 (79%)	326 (93%)	21 (6%)	4 (1%)	11	43
10	1S	260/446 (58%)	237 (91%)	17 (6%)	6 (2%)	5	30
11	1T	952/1638 (58%)	942 (99%)	8 (1%)	2 (0%)	43	72
12	1a	426/443 (96%)	410 (96%)	16 (4%)	0	100	100
12	1c	429/443 (97%)	408 (95%)	21 (5%)	0	100	100
12	1e	426/443 (96%)	411 (96%)	15 (4%)	0	100	100
12	1g	429/443 (97%)	406 (95%)	23 (5%)	0	100	100
12	2a	426/443 (96%)	410 (96%)	16 (4%)	0	100	100
12	2c	429/443 (97%)	407 (95%)	22 (5%)	0	100	100
12	2e	426/443 (96%)	412 (97%)	14 (3%)	0	100	100
12	2g	429/443 (97%)	407 (95%)	22 (5%)	0	100	100
12	3a	426/443 (96%)	411 (96%)	15 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
12	3c	429/443 (97%)	406 (95%)	23 (5%)	0	100	100
12	3e	426/443 (96%)	411 (96%)	15 (4%)	0	100	100
12	3g	429/443 (97%)	406 (95%)	23 (5%)	0	100	100
12	4a	426/443 (96%)	408 (96%)	18 (4%)	0	100	100
12	4c	429/443 (97%)	403 (94%)	26 (6%)	0	100	100
12	4e	426/443 (96%)	410 (96%)	16 (4%)	0	100	100
12	4g	429/443 (97%)	406 (95%)	23 (5%)	0	100	100
12	5a	426/443 (96%)	409 (96%)	17 (4%)	0	100	100
12	5c	429/443 (97%)	404 (94%)	25 (6%)	0	100	100
12	5e	426/443 (96%)	411 (96%)	15 (4%)	0	100	100
12	5g	429/443 (97%)	403 (94%)	26 (6%)	0	100	100
12	6a	426/443 (96%)	408 (96%)	18 (4%)	0	100	100
12	6c	429/443 (97%)	404 (94%)	25 (6%)	0	100	100
12	6e	426/443 (96%)	408 (96%)	18 (4%)	0	100	100
12	6g	429/443 (97%)	405 (94%)	24 (6%)	0	100	100
12	7a	426/443 (96%)	410 (96%)	16 (4%)	0	100	100
12	7c	429/443 (97%)	403 (94%)	26 (6%)	0	100	100
12	7e	426/443 (96%)	405 (95%)	21 (5%)	0	100	100
12	7g	429/443 (97%)	403 (94%)	26 (6%)	0	100	100
12	8a	426/443 (96%)	408 (96%)	18 (4%)	0	100	100
12	8c	429/443 (97%)	405 (94%)	24 (6%)	0	100	100
12	8e	426/443 (96%)	410 (96%)	16 (4%)	0	100	100
12	8g	429/443 (97%)	408 (95%)	21 (5%)	0	100	100
12	9a	426/443 (96%)	407 (96%)	19 (4%)	0	100	100
12	9c	429/443 (97%)	404 (94%)	25 (6%)	0	100	100
12	9e	426/443 (96%)	408 (96%)	18 (4%)	0	100	100
12	9g	429/443 (97%)	407 (95%)	22 (5%)	0	100	100
12	Aa	426/443 (96%)	412 (97%)	14 (3%)	0	100	100
12	Ac	429/443 (97%)	405 (94%)	24 (6%)	0	100	100
12	Ae	426/443 (96%)	413 (97%)	13 (3%)	0	100	100
12	Ag	429/443 (97%)	408 (95%)	21 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
12	Ba	426/443 (96%)	408 (96%)	18 (4%)	0	100	100
12	Bc	429/443 (97%)	407 (95%)	22 (5%)	0	100	100
12	Be	426/443 (96%)	407 (96%)	19 (4%)	0	100	100
12	Bg	429/443 (97%)	403 (94%)	26 (6%)	0	100	100
12	Ca	426/443 (96%)	414 (97%)	12 (3%)	0	100	100
12	Cc	429/443 (97%)	406 (95%)	23 (5%)	0	100	100
12	Ce	426/443 (96%)	408 (96%)	18 (4%)	0	100	100
12	Cg	429/443 (97%)	410 (96%)	19 (4%)	0	100	100
12	Da	426/443 (96%)	412 (97%)	14 (3%)	0	100	100
12	Dc	429/443 (97%)	407 (95%)	22 (5%)	0	100	100
12	De	426/443 (96%)	409 (96%)	17 (4%)	0	100	100
12	Dg	429/443 (97%)	404 (94%)	25 (6%)	0	100	100
13	1b	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	1d	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	1f	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	1h	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	2b	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	2d	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	2f	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	2h	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	3b	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	3d	426/451 (94%)	410 (96%)	16 (4%)	0	100	100
13	3f	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	3h	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	4b	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	4d	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	4f	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	4h	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	5b	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	5d	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	5f	426/451 (94%)	409 (96%)	17 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
13	5h	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	6b	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	6d	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	6f	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	6h	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	7b	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	7d	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	7f	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	7h	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	8b	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	8d	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	8f	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	8h	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	9b	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	9d	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	9f	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	9h	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Ab	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Ad	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Af	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Ah	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Bb	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Bd	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Bf	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Bh	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Cb	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Cd	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Cf	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Ch	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Db	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Dd	426/451 (94%)	409 (96%)	17 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
13	Df	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
13	Dh	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
14	2F	159/168 (95%)	144 (91%)	14 (9%)	1 (1%)	21	54
14	2G	159/168 (95%)	144 (91%)	14 (9%)	1 (1%)	21	54
24	2S	103/447 (23%)	100 (97%)	2 (2%)	1 (1%)	12	45
24	2T	107/447 (24%)	104 (97%)	3 (3%)	0	100	100
24	2U	109/447 (24%)	100 (92%)	9 (8%)	0	100	100
24	2V	107/447 (24%)	103 (96%)	4 (4%)	0	100	100
28	3C	59/739 (8%)	59 (100%)	0	0	100	100
29	3E	85/1471 (6%)	79 (93%)	6 (7%)	0	100	100
30	3F	440/795 (55%)	426 (97%)	11 (2%)	3 (1%)	18	51
30	3G	236/795 (30%)	231 (98%)	5 (2%)	0	100	100
31	3H	304/1940 (16%)	304 (100%)	0	0	100	100
31	3I	399/1940 (21%)	393 (98%)	6 (2%)	0	100	100
32	3J	366/749 (49%)	349 (95%)	17 (5%)	0	100	100
32	3K	361/749 (48%)	345 (96%)	15 (4%)	1 (0%)	36	65
33	3L	193/401 (48%)	184 (95%)	7 (4%)	2 (1%)	12	45
34	3M	381/507 (75%)	369 (97%)	12 (3%)	0	100	100
34	3N	386/507 (76%)	379 (98%)	7 (2%)	0	100	100
34	3O	349/507 (69%)	342 (98%)	7 (2%)	0	100	100
34	3P	351/507 (69%)	347 (99%)	4 (1%)	0	100	100
34	3Q	349/507 (69%)	344 (99%)	5 (1%)	0	100	100
34	3R	354/507 (70%)	351 (99%)	3 (1%)	0	100	100
34	3S	381/507 (75%)	371 (97%)	10 (3%)	0	100	100
34	3T	386/507 (76%)	378 (98%)	8 (2%)	0	100	100
34	3U	351/507 (69%)	348 (99%)	3 (1%)	0	100	100
34	3V	404/507 (80%)	397 (98%)	6 (2%)	1 (0%)	43	72
34	3W	405/507 (80%)	399 (98%)	6 (2%)	0	100	100
34	3X	354/507 (70%)	349 (99%)	5 (1%)	0	100	100
34	3Y	354/507 (70%)	352 (99%)	2 (1%)	0	100	100
34	3Z	354/507 (70%)	349 (99%)	5 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	4A	404/507 (80%)	396 (98%)	7 (2%)	1 (0%)	43	72
34	4B	405/507 (80%)	401 (99%)	4 (1%)	0	100	100
35	4C	618/2215 (28%)	585 (95%)	29 (5%)	4 (1%)	21	54
36	4D	293/304 (96%)	285 (97%)	6 (2%)	2 (1%)	18	51
37	4E	961/2301 (42%)	923 (96%)	28 (3%)	10 (1%)	12	45
37	4F	943/2301 (41%)	874 (93%)	49 (5%)	20 (2%)	5	31
37	4G	943/2301 (41%)	872 (92%)	57 (6%)	14 (2%)	8	37
37	4H	943/2301 (41%)	881 (93%)	47 (5%)	15 (2%)	7	36
38	4I	62/110 (56%)	41 (66%)	16 (26%)	5 (8%)	1	8
38	4J	62/110 (56%)	41 (66%)	16 (26%)	5 (8%)	1	8
38	4K	62/110 (56%)	41 (66%)	16 (26%)	5 (8%)	1	8
38	4L	62/110 (56%)	41 (66%)	16 (26%)	5 (8%)	1	8
38	4M	62/110 (56%)	41 (66%)	16 (26%)	5 (8%)	1	8
38	4N	62/110 (56%)	41 (66%)	16 (26%)	5 (8%)	1	8
38	4O	82/110 (74%)	71 (87%)	9 (11%)	2 (2%)	4	29
38	4P	53/110 (48%)	49 (92%)	3 (6%)	1 (2%)	6	33
39	4Q	214/427 (50%)	207 (97%)	5 (2%)	2 (1%)	14	46
39	4R	214/427 (50%)	207 (97%)	5 (2%)	2 (1%)	14	46
39	4S	214/427 (50%)	207 (97%)	5 (2%)	2 (1%)	14	46
40	4T	588/835 (70%)	544 (92%)	31 (5%)	13 (2%)	5	30
40	4U	588/835 (70%)	544 (92%)	31 (5%)	13 (2%)	5	30
40	4V	588/835 (70%)	544 (92%)	31 (5%)	13 (2%)	5	30
41	4W	120/173 (69%)	118 (98%)	2 (2%)	0	100	100
41	4X	120/173 (69%)	108 (90%)	12 (10%)	0	100	100
41	4Y	120/173 (69%)	107 (89%)	13 (11%)	0	100	100
41	4Z	120/173 (69%)	107 (89%)	13 (11%)	0	100	100
41	5A	119/173 (69%)	101 (85%)	12 (10%)	6 (5%)	1	16
41	5B	119/173 (69%)	106 (89%)	12 (10%)	1 (1%)	16	49
41	5C	119/173 (69%)	106 (89%)	12 (10%)	1 (1%)	16	49
41	5D	119/173 (69%)	106 (89%)	12 (10%)	1 (1%)	16	49
42	5E	212/286 (74%)	210 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
42	5F	212/286 (74%)	210 (99%)	2 (1%)	0	100	100
42	5G	212/286 (74%)	210 (99%)	2 (1%)	0	100	100
42	5H	163/286 (57%)	139 (85%)	16 (10%)	8 (5%)	1	16
43	5I	207/306 (68%)	179 (86%)	23 (11%)	5 (2%)	4	29
43	5J	207/306 (68%)	179 (86%)	23 (11%)	5 (2%)	4	29
43	5K	207/306 (68%)	179 (86%)	23 (11%)	5 (2%)	4	29
43	5L	207/306 (68%)	179 (86%)	23 (11%)	5 (2%)	4	29
44	5M	140/163 (86%)	137 (98%)	3 (2%)	0	100	100
44	5N	140/163 (86%)	137 (98%)	3 (2%)	0	100	100
44	5O	140/163 (86%)	137 (98%)	3 (2%)	0	100	100
44	5P	144/163 (88%)	139 (96%)	5 (4%)	0	100	100
44	5Q	144/163 (88%)	139 (96%)	5 (4%)	0	100	100
44	5R	144/163 (88%)	140 (97%)	4 (3%)	0	100	100
44	5S	143/163 (88%)	141 (99%)	2 (1%)	0	100	100
44	5T	143/163 (88%)	142 (99%)	1 (1%)	0	100	100
44	5U	143/163 (88%)	141 (99%)	2 (1%)	0	100	100
44	5V	147/163 (90%)	143 (97%)	3 (2%)	1 (1%)	18	51
46	5Z	39/181 (22%)	39 (100%)	0	0	100	100
47	6A	1536/1929 (80%)	1453 (95%)	64 (4%)	19 (1%)	10	41
47	6B	1536/1929 (80%)	1453 (95%)	64 (4%)	19 (1%)	10	41
48	6E	894/1138 (79%)	839 (94%)	52 (6%)	3 (0%)	36	65
48	6F	894/1138 (79%)	839 (94%)	52 (6%)	3 (0%)	36	65
49	6G	474/477 (99%)	456 (96%)	17 (4%)	1 (0%)	43	72
49	6H	474/477 (99%)	456 (96%)	17 (4%)	1 (0%)	43	72
49	6I	474/477 (99%)	456 (96%)	17 (4%)	1 (0%)	43	72
49	6J	474/477 (99%)	456 (96%)	17 (4%)	1 (0%)	43	72
50	6K	605/651 (93%)	580 (96%)	21 (4%)	4 (1%)	18	51
50	6L	605/651 (93%)	580 (96%)	21 (4%)	4 (1%)	18	51
51	6M	1059/2540 (42%)	1011 (96%)	40 (4%)	8 (1%)	16	49
51	6N	1059/2540 (42%)	1011 (96%)	40 (4%)	8 (1%)	16	49
52	6O	7/89 (8%)	6 (86%)	1 (14%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
52	6P	7/89 (8%)	6 (86%)	1 (14%)	0	100	100
52	6Q	7/89 (8%)	6 (86%)	1 (14%)	0	100	100
All	All	102979/147699 (70%)	98412 (96%)	4161 (4%)	406 (0%)	31	61

All (406) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	1D	61	VAL
2	1D	265	GLU
2	1D	427	GLU
2	1E	61	VAL
2	1E	265	GLU
2	1E	427	GLU
2	1F	61	VAL
2	1F	423	ALA
2	1G	61	VAL
2	1G	423	ALA
4	1J	22	LYS
4	1J	424	VAL
4	1K	22	LYS
4	1K	424	VAL
5	1L	244	PRO
5	1M	244	PRO
7	1O	1194	ARG
8	1P	790	THR
9	1Q	561	VAL
9	1Q	606	LYS
9	1Q	718	LYS
9	1Q	727	LEU
9	1Q	733	THR
9	1Q	734	SER
9	1Q	740	VAL
9	1Q	761	VAL
9	1Q	801	PHE
9	1Q	837	LYS
9	1Q	848	LYS
10	1R	39	MET
10	1S	39	MET
10	1S	330	VAL
14	2F	105	ALA
14	2G	105	ALA

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Mol	Chain	Res	Type
30	3F	249	VAL
33	3L	175	ALA
33	3L	179	ARG
35	4C	284	THR
36	4D	221	SER
37	4E	576	ALA
37	4E	583	GLU
37	4E	589	PRO
37	4E	1743	PRO
37	4F	400	PRO
37	4F	1094	ALA
37	4F	1139	THR
37	4F	1167	ASP
37	4F	1317	ASP
37	4F	1334	GLU
37	4G	400	PRO
37	4G	975	VAL
37	4G	1082	LEU
37	4G	1092	LEU
37	4G	1139	THR
37	4G	1167	ASP
37	4G	1322	ARG
37	4H	400	PRO
37	4H	953	PRO
37	4H	1092	LEU
37	4H	1167	ASP
37	4H	1322	ARG
39	4Q	172	THR
39	4R	172	THR
39	4S	172	THR
40	4T	178	SER
40	4T	258	LEU
40	4T	617	GLU
40	4T	635	LEU
40	4T	637	VAL
40	4T	639	TYR
40	4T	649	ASP
40	4U	178	SER
40	4U	258	LEU
40	4U	617	GLU
40	4U	635	LEU
40	4U	637	VAL

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Mol	Chain	Res	Type
40	4U	639	TYR
40	4U	649	ASP
40	4V	178	SER
40	4V	258	LEU
40	4V	617	GLU
40	4V	635	LEU
40	4V	637	VAL
40	4V	639	TYR
40	4V	649	ASP
41	5A	144	HIS
41	5B	117	ALA
41	5C	117	ALA
41	5D	117	ALA
42	5H	130	ALA
42	5H	135	ARG
47	6A	75	ASP
47	6A	493	LEU
47	6A	576	LEU
47	6A	812	GLN
47	6A	1319	PRO
47	6A	1536	ALA
47	6A	1641	CYS
47	6A	1798	ASN
47	6A	1804	ALA
47	6B	75	ASP
47	6B	493	LEU
47	6B	576	LEU
47	6B	812	GLN
47	6B	1319	PRO
47	6B	1536	ALA
47	6B	1641	CYS
47	6B	1798	ASN
47	6B	1804	ALA
3	6D	1011	GLU
48	6E	106	ARG
48	6F	106	ARG
49	6G	363	ASP
49	6H	363	ASP
49	6I	363	ASP
49	6J	363	ASP
50	6K	459	ASN
50	6K	530	LYS

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Mol	Chain	Res	Type
50	6K	531	TYR
50	6L	459	ASN
50	6L	530	LYS
50	6L	531	TYR
51	6M	2078	HIS
51	6M	2294	ASP
51	6N	2078	HIS
51	6N	2294	ASP
1	0B	412	THR
1	0C	168	ALA
1	0D	412	THR
1	0E	168	ALA
1	0F	412	THR
1	0G	412	THR
1	0L	168	ALA
1	0N	168	ALA
1	0O	412	THR
1	0P	168	ALA
1	0Q	412	THR
1	0S	412	THR
1	0T	168	ALA
1	0U	412	THR
1	0V	168	ALA
1	0Y	412	THR
1	0Z	168	ALA
1	1A	412	THR
2	1F	426	LEU
2	1G	426	LEU
4	1J	190	ALA
4	1J	410	SER
4	1J	411	VAL
4	1J	423	GLU
4	1K	190	ALA
4	1K	410	SER
4	1K	411	VAL
4	1K	421	ARG
4	1K	423	GLU
7	1O	3060	SER
9	1Q	682	ARG
9	1Q	719	VAL
9	1Q	739	VAL
9	1Q	762	LYS

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Mol	Chain	Res	Type
9	1Q	780	PRO
10	1S	359	SER
11	1T	1003	PRO
32	3K	131	ASN
36	4D	142	ASN
37	4E	577	LEU
37	4F	975	VAL
37	4F	1082	LEU
37	4F	1083	ILE
37	4F	1092	LEU
37	4F	1323	ILE
37	4F	1689	GLU
37	4G	1095	PRO
37	4G	1689	GLU
37	4H	975	VAL
37	4H	1089	GLY
37	4H	1689	GLU
38	4I	25	PRO
38	4I	81	ALA
38	4J	25	PRO
38	4J	81	ALA
38	4K	25	PRO
38	4K	81	ALA
38	4L	25	PRO
38	4L	81	ALA
38	4M	25	PRO
38	4M	81	ALA
38	4N	25	PRO
38	4N	81	ALA
39	4Q	171	SER
39	4R	171	SER
39	4S	171	SER
40	4T	177	LEU
40	4U	177	LEU
40	4V	177	LEU
41	5A	77	GLY
42	5H	131	ARG
42	5H	137	TYR
42	5H	140	TYR
44	5V	48	THR
47	6A	74	MET
47	6B	74	MET

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Mol	Chain	Res	Type
48	6E	62	THR
48	6F	62	THR
50	6K	515	ARG
50	6L	515	ARG
51	6M	2295	GLU
51	6N	2295	GLU
1	0H	168	ALA
1	0W	412	THR
1	0I	412	THR
1	0A	168	ALA
1	0M	412	THR
1	0R	168	ALA
1	0X	168	ALA
2	1D	231	ASN
2	1E	231	ASN
2	1F	231	ASN
2	1G	231	ASN
3	1H	875	ALA
3	1H	1007	ARG
3	1I	875	ALA
4	1J	191	SER
4	1J	421	ARG
4	1K	191	SER
5	1L	538	LYS
5	1M	538	LYS
7	1O	137	VAL
9	1Q	562	PRO
9	1Q	674	VAL
9	1Q	708	PRO
9	1Q	857	ALA
9	1Q	858	PRO
10	1R	373	SER
10	1S	341	SER
10	1S	358	ALA
35	4C	285	SER
35	4C	378	THR
37	4E	1167	ASP
37	4E	1742	LYS
37	4F	1079	SER
37	4G	953	PRO
37	4H	1139	THR
38	4O	40	LYS

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Mol	Chain	Res	Type
40	4T	616	HIS
40	4T	648	SER
40	4T	650	ASP
40	4U	616	HIS
40	4U	648	SER
40	4U	650	ASP
40	4V	616	HIS
40	4V	648	SER
40	4V	650	ASP
41	5A	98	GLN
41	5A	141	ASN
42	5H	136	HIS
47	6A	575	VAL
47	6B	575	VAL
51	6M	2261	ALA
51	6N	2261	ALA
4	1J	418	ILE
4	1K	418	ILE
7	1O	3059	LEU
9	1Q	717	TYR
10	1R	300	THR
10	1R	301	ALA
10	1S	336	PRO
34	3V	244	ARG
34	4A	244	ARG
35	4C	570	ALA
37	4E	581	LEU
37	4E	1689	GLU
37	4F	664	TYR
37	4H	664	TYR
38	4P	40	LYS
40	4T	638	THR
40	4T	693	THR
40	4U	638	THR
40	4U	693	THR
40	4V	638	THR
40	4V	693	THR
41	5A	37	TRP
42	5H	49	ILE
42	5H	134	LEU
43	5I	137	ARG
43	5J	137	ARG

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Mol	Chain	Res	Type
43	5K	137	ARG
43	5L	137	ARG
47	6A	810	LEU
47	6A	1640	ASP
47	6B	810	LEU
47	6B	1640	ASP
3	6D	875	ALA
51	6M	1247	ALA
51	6M	2260	ALA
51	6N	1247	ALA
51	6N	2260	ALA
1	0G	413	HIS
1	0M	413	HIS
1	0Y	413	HIS
2	1D	175	SER
2	1D	232	ALA
2	1D	426	LEU
2	1E	175	SER
2	1E	232	ALA
2	1E	426	LEU
2	1G	175	SER
3	1H	874	THR
3	1H	918	PRO
3	1I	96	ALA
3	1I	874	THR
3	1I	918	PRO
9	1Q	660	VAL
9	1Q	744	LEU
9	1Q	756	LYS
30	3F	250	GLU
37	4F	509	PRO
37	4F	1138	VAL
37	4G	1153	ALA
37	4H	1091	VAL
37	4H	1153	ALA
38	4I	28	VAL
38	4I	76	PRO
38	4J	28	VAL
38	4J	76	PRO
38	4K	28	VAL
38	4K	76	PRO
38	4L	28	VAL

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Mol	Chain	Res	Type
38	4L	76	PRO
38	4M	28	VAL
38	4M	76	PRO
38	4N	28	VAL
38	4N	76	PRO
38	4O	8	THR
41	5A	121	GLN
43	5I	29	GLY
43	5I	41	ASP
43	5J	29	GLY
43	5J	41	ASP
43	5K	29	GLY
43	5K	41	ASP
43	5L	29	GLY
43	5L	41	ASP
47	6A	546	TYR
47	6A	554	LEU
47	6A	555	ARG
47	6A	985	GLN
47	6A	1803	SER
47	6B	546	TYR
47	6B	554	LEU
47	6B	555	ARG
47	6B	985	GLN
47	6B	1803	SER
3	6D	874	THR
51	6M	2276	LEU
51	6N	2276	LEU
1	0W	413	HIS
1	0B	413	HIS
2	1E	264	SER
2	1F	265	GLU
2	1G	232	ALA
2	1G	265	GLU
3	1H	96	ALA
6	1N	546	PRO
9	1Q	738	LYS
11	1T	1113	ALA
37	4F	537	LEU
37	4F	1153	ALA
37	4H	1334	GLU
38	4I	37	GLY

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Mol	Chain	Res	Type
38	4J	37	GLY
38	4K	37	GLY
38	4L	37	GLY
38	4M	37	GLY
38	4N	37	GLY
47	6A	911	VAL
47	6B	911	VAL
5	1L	243	GLY
5	1M	243	GLY
8	1P	695	VAL
37	4F	1784	PRO
37	4G	1333	VAL
37	4G	1784	PRO
37	4H	1784	PRO
43	5I	159	PRO
43	5I	167	PRO
43	5J	159	PRO
43	5J	167	PRO
43	5K	159	PRO
43	5K	167	PRO
43	5L	159	PRO
43	5L	167	PRO
2	1D	417	PRO
2	1E	417	PRO
37	4E	585	VAL
37	4F	1095	PRO
37	4G	1323	ILE
37	4H	1095	PRO
48	6E	396	VAL
48	6F	396	VAL
30	3F	337	PRO
9	1Q	782	PRO
9	1Q	829	PRO
24	2S	136	PRO
51	6M	2189	ILE
51	6N	2189	ILE

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0A	333/408 (82%)	333 (100%)	0	100	100
1	0B	333/408 (82%)	333 (100%)	0	100	100
1	0C	333/408 (82%)	333 (100%)	0	100	100
1	0D	333/408 (82%)	333 (100%)	0	100	100
1	0E	333/408 (82%)	333 (100%)	0	100	100
1	0F	333/408 (82%)	333 (100%)	0	100	100
1	0G	333/408 (82%)	333 (100%)	0	100	100
1	0H	333/408 (82%)	333 (100%)	0	100	100
1	0I	333/408 (82%)	333 (100%)	0	100	100
1	0J	333/408 (82%)	333 (100%)	0	100	100
1	0K	332/408 (81%)	332 (100%)	0	100	100
1	0L	333/408 (82%)	333 (100%)	0	100	100
1	0M	333/408 (82%)	333 (100%)	0	100	100
1	0N	333/408 (82%)	333 (100%)	0	100	100
1	0O	333/408 (82%)	333 (100%)	0	100	100
1	0P	333/408 (82%)	333 (100%)	0	100	100
1	0Q	333/408 (82%)	333 (100%)	0	100	100
1	0R	332/408 (81%)	332 (100%)	0	100	100
1	0S	333/408 (82%)	333 (100%)	0	100	100
1	0T	333/408 (82%)	333 (100%)	0	100	100
1	0U	333/408 (82%)	333 (100%)	0	100	100
1	0V	333/408 (82%)	333 (100%)	0	100	100
1	0W	333/408 (82%)	333 (100%)	0	100	100
1	0X	333/408 (82%)	333 (100%)	0	100	100
1	0Y	333/408 (82%)	333 (100%)	0	100	100
1	0Z	333/408 (82%)	333 (100%)	0	100	100
1	1A	333/408 (82%)	333 (100%)	0	100	100
1	1B	333/408 (82%)	333 (100%)	0	100	100
1	1C	332/408 (81%)	332 (100%)	0	100	100
2	1D	256/415 (62%)	256 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	1E	256/415 (62%)	256 (100%)	0	100	100
2	1F	263/415 (63%)	263 (100%)	0	100	100
2	1G	263/415 (63%)	263 (100%)	0	100	100
3	1H	547/811 (67%)	546 (100%)	1 (0%)	87	85
3	1I	547/811 (67%)	546 (100%)	1 (0%)	87	85
3	6D	620/811 (76%)	619 (100%)	1 (0%)	87	85
4	1J	278/3239 (9%)	276 (99%)	2 (1%)	76	78
4	1K	278/3239 (9%)	276 (99%)	2 (1%)	76	78
5	1L	201/2456 (8%)	196 (98%)	5 (2%)	42	63
5	1M	201/2456 (8%)	196 (98%)	5 (2%)	42	63
6	1N	1553/1962 (79%)	1553 (100%)	0	100	100
7	1O	1932/2270 (85%)	1932 (100%)	0	100	100
8	1P	236/790 (30%)	236 (100%)	0	100	100
9	1Q	55/728 (8%)	55 (100%)	0	100	100
10	1R	295/353 (84%)	295 (100%)	0	100	100
10	1S	195/353 (55%)	195 (100%)	0	100	100
11	1T	1/1185 (0%)	1 (100%)	0	100	100
12	1a	368/379 (97%)	368 (100%)	0	100	100
12	1c	370/379 (98%)	370 (100%)	0	100	100
12	1e	368/379 (97%)	368 (100%)	0	100	100
12	1g	370/379 (98%)	370 (100%)	0	100	100
12	2a	368/379 (97%)	368 (100%)	0	100	100
12	2c	370/379 (98%)	370 (100%)	0	100	100
12	2e	368/379 (97%)	368 (100%)	0	100	100
12	2g	370/379 (98%)	370 (100%)	0	100	100
12	3a	368/379 (97%)	368 (100%)	0	100	100
12	3c	370/379 (98%)	370 (100%)	0	100	100
12	3e	368/379 (97%)	368 (100%)	0	100	100
12	3g	370/379 (98%)	370 (100%)	0	100	100
12	4a	368/379 (97%)	367 (100%)	1 (0%)	86	83
12	4c	370/379 (98%)	370 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	4e	368/379 (97%)	368 (100%)	0	100	100
12	4g	370/379 (98%)	370 (100%)	0	100	100
12	5a	368/379 (97%)	368 (100%)	0	100	100
12	5c	370/379 (98%)	370 (100%)	0	100	100
12	5e	368/379 (97%)	368 (100%)	0	100	100
12	5g	370/379 (98%)	370 (100%)	0	100	100
12	6a	368/379 (97%)	368 (100%)	0	100	100
12	6c	370/379 (98%)	370 (100%)	0	100	100
12	6e	368/379 (97%)	368 (100%)	0	100	100
12	6g	370/379 (98%)	370 (100%)	0	100	100
12	7a	368/379 (97%)	368 (100%)	0	100	100
12	7c	370/379 (98%)	370 (100%)	0	100	100
12	7e	368/379 (97%)	368 (100%)	0	100	100
12	7g	370/379 (98%)	370 (100%)	0	100	100
12	8a	368/379 (97%)	368 (100%)	0	100	100
12	8c	370/379 (98%)	370 (100%)	0	100	100
12	8e	368/379 (97%)	368 (100%)	0	100	100
12	8g	370/379 (98%)	370 (100%)	0	100	100
12	9a	368/379 (97%)	368 (100%)	0	100	100
12	9c	370/379 (98%)	370 (100%)	0	100	100
12	9e	368/379 (97%)	368 (100%)	0	100	100
12	9g	370/379 (98%)	370 (100%)	0	100	100
12	Aa	368/379 (97%)	368 (100%)	0	100	100
12	Ac	370/379 (98%)	370 (100%)	0	100	100
12	Ae	368/379 (97%)	368 (100%)	0	100	100
12	Ag	370/379 (98%)	370 (100%)	0	100	100
12	Ba	368/379 (97%)	368 (100%)	0	100	100
12	Bc	370/379 (98%)	370 (100%)	0	100	100
12	Be	368/379 (97%)	368 (100%)	0	100	100
12	Bg	370/379 (98%)	370 (100%)	0	100	100
12	Ca	368/379 (97%)	368 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	Cc	370/379 (98%)	370 (100%)	0	100	100
12	Ce	368/379 (97%)	368 (100%)	0	100	100
12	Cg	370/379 (98%)	370 (100%)	0	100	100
12	Da	368/379 (97%)	368 (100%)	0	100	100
12	Dc	370/379 (98%)	370 (100%)	0	100	100
12	De	368/379 (97%)	368 (100%)	0	100	100
12	Dg	370/379 (98%)	370 (100%)	0	100	100
13	1b	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	1d	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	1f	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	1h	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	2b	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	2d	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	2f	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	2h	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	3b	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	3d	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	3f	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	3h	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	4b	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	4d	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	4f	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	4h	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	5b	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	5d	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	5f	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	5h	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	6b	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	6d	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	6f	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	6h	361/374 (96%)	347 (96%)	14 (4%)	28	54

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	7b	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	7d	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	7f	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	7h	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	8b	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	8d	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	8f	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	8h	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	9b	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	9d	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	9f	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	9h	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Ab	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Ad	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Af	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Ah	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Bb	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Bd	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Bf	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Bh	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Cb	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Cd	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Cf	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Ch	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Db	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Dd	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Df	361/374 (96%)	347 (96%)	14 (4%)	28	54
13	Dh	361/374 (96%)	347 (96%)	14 (4%)	28	54
14	2F	115/119 (97%)	112 (97%)	3 (3%)	40	62
14	2G	115/119 (97%)	112 (97%)	3 (3%)	40	62
24	2T	85/313 (27%)	85 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
24	2U	87/313 (28%)	87 (100%)	0	100	100
24	2V	85/313 (27%)	85 (100%)	0	100	100
28	3C	45/580 (8%)	45 (100%)	0	100	100
29	3E	59/1095 (5%)	59 (100%)	0	100	100
30	3F	303/642 (47%)	301 (99%)	2 (1%)	76	78
30	3G	187/642 (29%)	187 (100%)	0	100	100
31	3H	114/1457 (8%)	114 (100%)	0	100	100
31	3I	301/1457 (21%)	301 (100%)	0	100	100
32	3J	286/576 (50%)	286 (100%)	0	100	100
32	3K	285/576 (50%)	285 (100%)	0	100	100
33	3L	165/318 (52%)	165 (100%)	0	100	100
34	3M	291/386 (75%)	291 (100%)	0	100	100
34	3N	302/386 (78%)	302 (100%)	0	100	100
34	3O	275/386 (71%)	275 (100%)	0	100	100
34	3P	276/386 (72%)	276 (100%)	0	100	100
34	3Q	275/386 (71%)	275 (100%)	0	100	100
34	3R	278/386 (72%)	278 (100%)	0	100	100
34	3S	291/386 (75%)	291 (100%)	0	100	100
34	3T	302/386 (78%)	302 (100%)	0	100	100
34	3U	276/386 (72%)	276 (100%)	0	100	100
34	3V	317/386 (82%)	317 (100%)	0	100	100
34	3W	318/386 (82%)	318 (100%)	0	100	100
34	3X	278/386 (72%)	278 (100%)	0	100	100
34	3Y	278/386 (72%)	278 (100%)	0	100	100
34	3Z	278/386 (72%)	278 (100%)	0	100	100
34	4A	317/386 (82%)	317 (100%)	0	100	100
34	4B	318/386 (82%)	318 (100%)	0	100	100
35	4C	525/1698 (31%)	525 (100%)	0	100	100
36	4D	260/267 (97%)	260 (100%)	0	100	100
37	4E	743/1694 (44%)	738 (99%)	5 (1%)	76	78
37	4F	722/1694 (43%)	714 (99%)	8 (1%)	65	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
37	4G	722/1694 (43%)	710 (98%)	12 (2%)	53	69
37	4H	722/1694 (43%)	711 (98%)	11 (2%)	57	70
38	4I	51/83 (61%)	42 (82%)	9 (18%)	2	12
38	4J	51/83 (61%)	42 (82%)	9 (18%)	2	12
38	4K	51/83 (61%)	42 (82%)	9 (18%)	2	12
38	4L	51/83 (61%)	42 (82%)	9 (18%)	2	12
38	4M	51/83 (61%)	42 (82%)	9 (18%)	2	12
38	4N	51/83 (61%)	42 (82%)	9 (18%)	2	12
38	4O	65/83 (78%)	65 (100%)	0	100	100
38	4P	44/83 (53%)	44 (100%)	0	100	100
39	4Q	178/330 (54%)	174 (98%)	4 (2%)	45	65
39	4R	178/330 (54%)	174 (98%)	4 (2%)	45	65
39	4S	178/330 (54%)	174 (98%)	4 (2%)	45	65
40	4T	464/605 (77%)	450 (97%)	14 (3%)	36	59
40	4U	464/605 (77%)	450 (97%)	14 (3%)	36	59
40	4V	464/605 (77%)	450 (97%)	14 (3%)	36	59
42	5E	132/215 (61%)	129 (98%)	3 (2%)	44	64
42	5F	132/215 (61%)	129 (98%)	3 (2%)	44	64
42	5G	132/215 (61%)	129 (98%)	3 (2%)	44	64
42	5H	132/215 (61%)	124 (94%)	8 (6%)	17	45
43	5I	155/247 (63%)	137 (88%)	18 (12%)	5	25
43	5J	155/247 (63%)	137 (88%)	18 (12%)	5	25
43	5K	155/247 (63%)	137 (88%)	18 (12%)	5	25
43	5L	155/247 (63%)	137 (88%)	18 (12%)	5	25
44	5P	125/137 (91%)	125 (100%)	0	100	100
44	5Q	125/137 (91%)	125 (100%)	0	100	100
44	5R	125/137 (91%)	125 (100%)	0	100	100
44	5S	124/137 (90%)	124 (100%)	0	100	100
44	5T	124/137 (90%)	124 (100%)	0	100	100
44	5U	124/137 (90%)	124 (100%)	0	100	100
44	5V	126/137 (92%)	126 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	5Z	22/22 (100%)	22 (100%)	0	100	100
47	6A	1147/1408 (82%)	1122 (98%)	25 (2%)	45	65
47	6B	1147/1408 (82%)	1122 (98%)	25 (2%)	45	65
48	6E	710/864 (82%)	701 (99%)	9 (1%)	61	72
48	6F	710/864 (82%)	701 (99%)	9 (1%)	61	72
49	6G	383/384 (100%)	345 (90%)	38 (10%)	7	31
49	6H	383/384 (100%)	345 (90%)	38 (10%)	7	31
49	6I	383/384 (100%)	345 (90%)	38 (10%)	7	31
49	6J	383/384 (100%)	346 (90%)	37 (10%)	8	31
50	6K	511/533 (96%)	505 (99%)	6 (1%)	63	73
50	6L	511/533 (96%)	505 (99%)	6 (1%)	63	73
51	6M	827/1940 (43%)	820 (99%)	7 (1%)	73	77
51	6N	827/1940 (43%)	820 (99%)	7 (1%)	73	77
All	All	78493/114873 (68%)	77261 (98%)	1232 (2%)	54	69

All (1232) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1H	496	VAL
3	1I	496	VAL
4	1J	73	SER
4	1J	326	SER
4	1K	73	SER
4	1K	326	SER
5	1L	421	SER
5	1L	422	SER
5	1L	471	SER
5	1L	576	VAL
5	1L	609	ASP
5	1M	421	SER
5	1M	422	SER
5	1M	471	SER
5	1M	576	VAL
5	1M	609	ASP
13	1b	74	VAL
13	1b	77	GLU
13	1b	94	SER

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Mol	Chain	Res	Type
13	1b	120	ASP
13	1b	165	SER
13	1b	170	THR
13	1b	178	SER
13	1b	191	THR
13	1b	211	ASP
13	1b	213	CYS
13	1b	225	THR
13	1b	303	VAL
13	1b	361	THR
13	1b	387	ILE
13	1d	74	VAL
13	1d	77	GLU
13	1d	94	SER
13	1d	120	ASP
13	1d	165	SER
13	1d	170	THR
13	1d	178	SER
13	1d	191	THR
13	1d	211	ASP
13	1d	213	CYS
13	1d	225	THR
13	1d	303	VAL
13	1d	361	THR
13	1d	387	ILE
13	1f	74	VAL
13	1f	77	GLU
13	1f	94	SER
13	1f	120	ASP
13	1f	165	SER
13	1f	170	THR
13	1f	178	SER
13	1f	191	THR
13	1f	211	ASP
13	1f	213	CYS
13	1f	225	THR
13	1f	303	VAL
13	1f	361	THR
13	1f	387	ILE
13	1h	74	VAL
13	1h	77	GLU
13	1h	94	SER

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Mol	Chain	Res	Type
13	1h	120	ASP
13	1h	165	SER
13	1h	170	THR
13	1h	178	SER
13	1h	191	THR
13	1h	211	ASP
13	1h	213	CYS
13	1h	225	THR
13	1h	303	VAL
13	1h	361	THR
13	1h	387	ILE
14	2F	21	SER
14	2F	126	LEU
14	2F	153	SER
14	2G	21	SER
14	2G	126	LEU
14	2G	153	SER
13	2b	74	VAL
13	2b	77	GLU
13	2b	94	SER
13	2b	120	ASP
13	2b	165	SER
13	2b	170	THR
13	2b	178	SER
13	2b	191	THR
13	2b	211	ASP
13	2b	213	CYS
13	2b	225	THR
13	2b	303	VAL
13	2b	361	THR
13	2b	387	ILE
13	2d	74	VAL
13	2d	77	GLU
13	2d	94	SER
13	2d	120	ASP
13	2d	165	SER
13	2d	170	THR
13	2d	178	SER
13	2d	191	THR
13	2d	211	ASP
13	2d	213	CYS
13	2d	225	THR

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Mol	Chain	Res	Type
13	2d	303	VAL
13	2d	361	THR
13	2d	387	ILE
13	2f	74	VAL
13	2f	77	GLU
13	2f	94	SER
13	2f	120	ASP
13	2f	165	SER
13	2f	170	THR
13	2f	178	SER
13	2f	191	THR
13	2f	211	ASP
13	2f	213	CYS
13	2f	225	THR
13	2f	303	VAL
13	2f	361	THR
13	2f	387	ILE
13	2h	74	VAL
13	2h	77	GLU
13	2h	94	SER
13	2h	120	ASP
13	2h	165	SER
13	2h	170	THR
13	2h	178	SER
13	2h	191	THR
13	2h	211	ASP
13	2h	213	CYS
13	2h	225	THR
13	2h	303	VAL
13	2h	361	THR
13	2h	387	ILE
30	3F	328	ILE
30	3F	437	ILE
13	3b	74	VAL
13	3b	77	GLU
13	3b	94	SER
13	3b	120	ASP
13	3b	165	SER
13	3b	170	THR
13	3b	178	SER
13	3b	191	THR
13	3b	211	ASP

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Mol	Chain	Res	Type
13	3b	213	CYS
13	3b	225	THR
13	3b	303	VAL
13	3b	361	THR
13	3b	387	ILE
13	3d	74	VAL
13	3d	77	GLU
13	3d	94	SER
13	3d	120	ASP
13	3d	165	SER
13	3d	170	THR
13	3d	178	SER
13	3d	191	THR
13	3d	211	ASP
13	3d	213	CYS
13	3d	225	THR
13	3d	303	VAL
13	3d	361	THR
13	3d	387	ILE
13	3f	74	VAL
13	3f	77	GLU
13	3f	94	SER
13	3f	120	ASP
13	3f	165	SER
13	3f	170	THR
13	3f	178	SER
13	3f	191	THR
13	3f	211	ASP
13	3f	213	CYS
13	3f	225	THR
13	3f	303	VAL
13	3f	361	THR
13	3f	387	ILE
13	3h	74	VAL
13	3h	77	GLU
13	3h	94	SER
13	3h	120	ASP
13	3h	165	SER
13	3h	170	THR
13	3h	178	SER
13	3h	191	THR
13	3h	211	ASP

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Mol	Chain	Res	Type
13	3h	213	CYS
13	3h	225	THR
13	3h	303	VAL
13	3h	361	THR
13	3h	387	ILE
37	4E	577	LEU
37	4E	583	GLU
37	4E	585	VAL
37	4E	588	PRO
37	4E	1123	LEU
37	4F	1075	VAL
37	4F	1082	LEU
37	4F	1083	ILE
37	4F	1093	VAL
37	4F	1322	ARG
37	4F	1323	ILE
37	4F	1332	SER
37	4F	1712	LEU
37	4G	1082	LEU
37	4G	1085	MET
37	4G	1091	VAL
37	4G	1092	LEU
37	4G	1093	VAL
37	4G	1143	LEU
37	4G	1322	ARG
37	4G	1323	ILE
37	4G	1333	VAL
37	4G	1335	MET
37	4G	1338	PHE
37	4G	1345	PRO
37	4H	954	SER
37	4H	1084	ARG
37	4H	1091	VAL
37	4H	1092	LEU
37	4H	1093	VAL
37	4H	1139	THR
37	4H	1321	THR
37	4H	1323	ILE
37	4H	1332	SER
37	4H	1333	VAL
37	4H	1341	ILE
38	4I	26	GLU

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Mol	Chain	Res	Type
38	4I	28	VAL
38	4I	29	LYS
38	4I	33	LYS
38	4I	36	VAL
38	4I	39	HIS
38	4I	58	VAL
38	4I	72	ARG
38	4I	74	ASP
38	4J	26	GLU
38	4J	28	VAL
38	4J	29	LYS
38	4J	33	LYS
38	4J	36	VAL
38	4J	39	HIS
38	4J	58	VAL
38	4J	72	ARG
38	4J	74	ASP
38	4K	26	GLU
38	4K	28	VAL
38	4K	29	LYS
38	4K	33	LYS
38	4K	36	VAL
38	4K	39	HIS
38	4K	58	VAL
38	4K	72	ARG
38	4K	74	ASP
38	4L	26	GLU
38	4L	28	VAL
38	4L	29	LYS
38	4L	33	LYS
38	4L	36	VAL
38	4L	39	HIS
38	4L	58	VAL
38	4L	72	ARG
38	4L	74	ASP
38	4M	26	GLU
38	4M	28	VAL
38	4M	29	LYS
38	4M	33	LYS
38	4M	36	VAL
38	4M	39	HIS
38	4M	58	VAL

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Mol	Chain	Res	Type
38	4M	72	ARG
38	4M	74	ASP
38	4N	26	GLU
38	4N	28	VAL
38	4N	29	LYS
38	4N	33	LYS
38	4N	36	VAL
38	4N	39	HIS
38	4N	58	VAL
38	4N	72	ARG
38	4N	74	ASP
39	4Q	10	VAL
39	4Q	171	SER
39	4Q	184	SER
39	4Q	206	MET
39	4R	10	VAL
39	4R	171	SER
39	4R	184	SER
39	4R	206	MET
39	4S	10	VAL
39	4S	171	SER
39	4S	184	SER
39	4S	206	MET
40	4T	201	ASN
40	4T	291	VAL
40	4T	311	VAL
40	4T	363	VAL
40	4T	397	ILE
40	4T	406	SER
40	4T	432	SER
40	4T	455	THR
40	4T	485	VAL
40	4T	500	SER
40	4T	510	SER
40	4T	600	THR
40	4T	714	ASP
40	4T	728	VAL
40	4U	201	ASN
40	4U	291	VAL
40	4U	311	VAL
40	4U	363	VAL
40	4U	397	ILE

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Mol	Chain	Res	Type
40	4U	406	SER
40	4U	432	SER
40	4U	455	THR
40	4U	485	VAL
40	4U	500	SER
40	4U	510	SER
40	4U	600	THR
40	4U	714	ASP
40	4U	728	VAL
40	4V	201	ASN
40	4V	291	VAL
40	4V	311	VAL
40	4V	363	VAL
40	4V	397	ILE
40	4V	406	SER
40	4V	432	SER
40	4V	455	THR
40	4V	485	VAL
40	4V	500	SER
40	4V	510	SER
40	4V	600	THR
40	4V	714	ASP
40	4V	728	VAL
12	4a	60	VAL
13	4b	74	VAL
13	4b	77	GLU
13	4b	94	SER
13	4b	120	ASP
13	4b	165	SER
13	4b	170	THR
13	4b	178	SER
13	4b	191	THR
13	4b	211	ASP
13	4b	213	CYS
13	4b	225	THR
13	4b	303	VAL
13	4b	361	THR
13	4b	387	ILE
13	4d	74	VAL
13	4d	77	GLU
13	4d	94	SER
13	4d	120	ASP

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Mol	Chain	Res	Type
13	4d	165	SER
13	4d	170	THR
13	4d	178	SER
13	4d	191	THR
13	4d	211	ASP
13	4d	213	CYS
13	4d	225	THR
13	4d	303	VAL
13	4d	361	THR
13	4d	387	ILE
13	4f	74	VAL
13	4f	77	GLU
13	4f	94	SER
13	4f	120	ASP
13	4f	165	SER
13	4f	170	THR
13	4f	178	SER
13	4f	191	THR
13	4f	211	ASP
13	4f	213	CYS
13	4f	225	THR
13	4f	303	VAL
13	4f	361	THR
13	4f	387	ILE
13	4h	74	VAL
13	4h	77	GLU
13	4h	94	SER
13	4h	120	ASP
13	4h	165	SER
13	4h	170	THR
13	4h	178	SER
13	4h	191	THR
13	4h	211	ASP
13	4h	213	CYS
13	4h	225	THR
13	4h	303	VAL
13	4h	361	THR
13	4h	387	ILE
42	5E	85	CYS
42	5E	120	ASP
42	5E	145	SER
42	5F	85	CYS

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Mol	Chain	Res	Type
42	5F	120	ASP
42	5F	145	SER
42	5G	85	CYS
42	5G	120	ASP
42	5G	145	SER
42	5H	49	ILE
42	5H	50	LEU
42	5H	135	ARG
42	5H	136	HIS
42	5H	139	LEU
42	5H	143	VAL
42	5H	156	GLU
42	5H	158	MET
43	5I	15	LEU
43	5I	18	ILE
43	5I	21	PRO
43	5I	24	LYS
43	5I	30	ARG
43	5I	33	LEU
43	5I	35	LYS
43	5I	36	TYR
43	5I	44	THR
43	5I	50	ILE
43	5I	56	VAL
43	5I	96	SER
43	5I	120	SER
43	5I	147	THR
43	5I	158	HIS
43	5I	160	SER
43	5I	161	ASP
43	5I	168	GLU
43	5J	15	LEU
43	5J	18	ILE
43	5J	21	PRO
43	5J	24	LYS
43	5J	30	ARG
43	5J	33	LEU
43	5J	35	LYS
43	5J	36	TYR
43	5J	44	THR
43	5J	50	ILE
43	5J	56	VAL

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Mol	Chain	Res	Type
43	5J	96	SER
43	5J	120	SER
43	5J	147	THR
43	5J	158	HIS
43	5J	160	SER
43	5J	161	ASP
43	5J	168	GLU
43	5K	15	LEU
43	5K	18	ILE
43	5K	21	PRO
43	5K	24	LYS
43	5K	30	ARG
43	5K	33	LEU
43	5K	35	LYS
43	5K	36	TYR
43	5K	44	THR
43	5K	50	ILE
43	5K	56	VAL
43	5K	96	SER
43	5K	120	SER
43	5K	147	THR
43	5K	158	HIS
43	5K	160	SER
43	5K	161	ASP
43	5K	168	GLU
43	5L	15	LEU
43	5L	18	ILE
43	5L	21	PRO
43	5L	24	LYS
43	5L	30	ARG
43	5L	33	LEU
43	5L	35	LYS
43	5L	36	TYR
43	5L	44	THR
43	5L	50	ILE
43	5L	56	VAL
43	5L	96	SER
43	5L	120	SER
43	5L	147	THR
43	5L	158	HIS
43	5L	160	SER
43	5L	161	ASP

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Mol	Chain	Res	Type
43	5L	168	GLU
13	5b	74	VAL
13	5b	77	GLU
13	5b	94	SER
13	5b	120	ASP
13	5b	165	SER
13	5b	170	THR
13	5b	178	SER
13	5b	191	THR
13	5b	211	ASP
13	5b	213	CYS
13	5b	225	THR
13	5b	303	VAL
13	5b	361	THR
13	5b	387	ILE
13	5d	74	VAL
13	5d	77	GLU
13	5d	94	SER
13	5d	120	ASP
13	5d	165	SER
13	5d	170	THR
13	5d	178	SER
13	5d	191	THR
13	5d	211	ASP
13	5d	213	CYS
13	5d	225	THR
13	5d	303	VAL
13	5d	361	THR
13	5d	387	ILE
13	5f	74	VAL
13	5f	77	GLU
13	5f	94	SER
13	5f	120	ASP
13	5f	165	SER
13	5f	170	THR
13	5f	178	SER
13	5f	191	THR
13	5f	211	ASP
13	5f	213	CYS
13	5f	225	THR
13	5f	303	VAL
13	5f	361	THR

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Mol	Chain	Res	Type
13	5f	387	ILE
13	5h	74	VAL
13	5h	77	GLU
13	5h	94	SER
13	5h	120	ASP
13	5h	165	SER
13	5h	170	THR
13	5h	178	SER
13	5h	191	THR
13	5h	211	ASP
13	5h	213	CYS
13	5h	225	THR
13	5h	303	VAL
13	5h	361	THR
13	5h	387	ILE
47	6A	6	ARG
47	6A	12	GLU
47	6A	37	LYS
47	6A	50	LYS
47	6A	62	ARG
47	6A	101	LEU
47	6A	112	MET
47	6A	129	ARG
47	6A	143	LYS
47	6A	183	GLN
47	6A	201	ARG
47	6A	229	VAL
47	6A	234	LEU
47	6A	333	VAL
47	6A	795	LEU
47	6A	800	SER
47	6A	923	SER
47	6A	994	LYS
47	6A	1089	LYS
47	6A	1157	VAL
47	6A	1482	GLU
47	6A	1520	ASP
47	6A	1603	SER
47	6A	1616	SER
47	6A	1625	VAL
47	6B	6	ARG
47	6B	12	GLU

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Mol	Chain	Res	Type
47	6B	37	LYS
47	6B	50	LYS
47	6B	62	ARG
47	6B	101	LEU
47	6B	112	MET
47	6B	129	ARG
47	6B	143	LYS
47	6B	183	GLN
47	6B	201	ARG
47	6B	229	VAL
47	6B	234	LEU
47	6B	333	VAL
47	6B	795	LEU
47	6B	800	SER
47	6B	923	SER
47	6B	994	LYS
47	6B	1089	LYS
47	6B	1157	VAL
47	6B	1482	GLU
47	6B	1520	ASP
47	6B	1603	SER
47	6B	1616	SER
47	6B	1625	VAL
3	6D	1010	LEU
48	6E	105	LEU
48	6E	120	SER
48	6E	167	SER
48	6E	277	SER
48	6E	332	SER
48	6E	353	ILE
48	6E	895	MET
48	6E	963	ILE
48	6E	1036	GLN
48	6F	105	LEU
48	6F	120	SER
48	6F	167	SER
48	6F	277	SER
48	6F	332	SER
48	6F	353	ILE
48	6F	895	MET
48	6F	963	ILE
48	6F	1036	GLN

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Mol	Chain	Res	Type
49	6G	2	SER
49	6G	3	VAL
49	6G	13	GLU
49	6G	46	GLU
49	6G	79	VAL
49	6G	84	SER
49	6G	85	THR
49	6G	108	LYS
49	6G	121	LEU
49	6G	136	MET
49	6G	143	ASP
49	6G	147	LYS
49	6G	154	LEU
49	6G	191	SER
49	6G	203	ASN
49	6G	211	MET
49	6G	215	VAL
49	6G	238	ILE
49	6G	262	ASN
49	6G	268	LEU
49	6G	269	VAL
49	6G	291	SER
49	6G	292	GLU
49	6G	312	SER
49	6G	328	CYS
49	6G	336	ILE
49	6G	370	VAL
49	6G	373	LYS
49	6G	386	LEU
49	6G	395	THR
49	6G	411	VAL
49	6G	417	SER
49	6G	420	THR
49	6G	425	ILE
49	6G	432	LEU
49	6G	439	THR
49	6G	445	SER
49	6G	460	GLU
49	6H	2	SER
49	6H	3	VAL
49	6H	13	GLU
49	6H	46	GLU

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Mol	Chain	Res	Type
49	6H	79	VAL
49	6H	84	SER
49	6H	85	THR
49	6H	108	LYS
49	6H	121	LEU
49	6H	136	MET
49	6H	143	ASP
49	6H	147	LYS
49	6H	154	LEU
49	6H	191	SER
49	6H	203	ASN
49	6H	211	MET
49	6H	215	VAL
49	6H	238	ILE
49	6H	262	ASN
49	6H	268	LEU
49	6H	269	VAL
49	6H	291	SER
49	6H	292	GLU
49	6H	312	SER
49	6H	328	CYS
49	6H	336	ILE
49	6H	370	VAL
49	6H	373	LYS
49	6H	386	LEU
49	6H	395	THR
49	6H	411	VAL
49	6H	417	SER
49	6H	420	THR
49	6H	425	ILE
49	6H	432	LEU
49	6H	439	THR
49	6H	445	SER
49	6H	460	GLU
49	6I	2	SER
49	6I	3	VAL
49	6I	13	GLU
49	6I	46	GLU
49	6I	79	VAL
49	6I	84	SER
49	6I	85	THR
49	6I	108	LYS

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Mol	Chain	Res	Type
49	6I	121	LEU
49	6I	136	MET
49	6I	143	ASP
49	6I	147	LYS
49	6I	154	LEU
49	6I	191	SER
49	6I	203	ASN
49	6I	211	MET
49	6I	215	VAL
49	6I	238	ILE
49	6I	262	ASN
49	6I	268	LEU
49	6I	269	VAL
49	6I	291	SER
49	6I	292	GLU
49	6I	312	SER
49	6I	328	CYS
49	6I	336	ILE
49	6I	370	VAL
49	6I	373	LYS
49	6I	386	LEU
49	6I	395	THR
49	6I	411	VAL
49	6I	417	SER
49	6I	420	THR
49	6I	425	ILE
49	6I	432	LEU
49	6I	439	THR
49	6I	445	SER
49	6I	460	GLU
49	6J	2	SER
49	6J	3	VAL
49	6J	13	GLU
49	6J	46	GLU
49	6J	79	VAL
49	6J	84	SER
49	6J	85	THR
49	6J	108	LYS
49	6J	121	LEU
49	6J	136	MET
49	6J	143	ASP
49	6J	147	LYS

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Mol	Chain	Res	Type
49	6J	154	LEU
49	6J	191	SER
49	6J	203	ASN
49	6J	211	MET
49	6J	215	VAL
49	6J	238	ILE
49	6J	262	ASN
49	6J	269	VAL
49	6J	291	SER
49	6J	292	GLU
49	6J	312	SER
49	6J	328	CYS
49	6J	336	ILE
49	6J	370	VAL
49	6J	373	LYS
49	6J	386	LEU
49	6J	395	THR
49	6J	411	VAL
49	6J	417	SER
49	6J	420	THR
49	6J	425	ILE
49	6J	432	LEU
49	6J	439	THR
49	6J	445	SER
49	6J	460	GLU
50	6K	115	VAL
50	6K	327	LEU
50	6K	399	LEU
50	6K	503	ASN
50	6K	542	VAL
50	6K	588	GLU
50	6L	115	VAL
50	6L	327	LEU
50	6L	399	LEU
50	6L	503	ASN
50	6L	542	VAL
50	6L	588	GLU
51	6M	1269	VAL
51	6M	1622	THR
51	6M	1632	ASP
51	6M	1805	VAL
51	6M	1977	SER

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Mol	Chain	Res	Type
51	6M	1999	SER
51	6M	2319	THR
51	6N	1269	VAL
51	6N	1622	THR
51	6N	1632	ASP
51	6N	1805	VAL
51	6N	1977	SER
51	6N	1999	SER
51	6N	2319	THR
13	6b	74	VAL
13	6b	77	GLU
13	6b	94	SER
13	6b	120	ASP
13	6b	165	SER
13	6b	170	THR
13	6b	178	SER
13	6b	191	THR
13	6b	211	ASP
13	6b	213	CYS
13	6b	225	THR
13	6b	303	VAL
13	6b	361	THR
13	6b	387	ILE
13	6d	74	VAL
13	6d	77	GLU
13	6d	94	SER
13	6d	120	ASP
13	6d	165	SER
13	6d	170	THR
13	6d	178	SER
13	6d	191	THR
13	6d	211	ASP
13	6d	213	CYS
13	6d	225	THR
13	6d	303	VAL
13	6d	361	THR
13	6d	387	ILE
13	6f	74	VAL
13	6f	77	GLU
13	6f	94	SER
13	6f	120	ASP
13	6f	165	SER

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Mol	Chain	Res	Type
13	6f	170	THR
13	6f	178	SER
13	6f	191	THR
13	6f	211	ASP
13	6f	213	CYS
13	6f	225	THR
13	6f	303	VAL
13	6f	361	THR
13	6f	387	ILE
13	6h	74	VAL
13	6h	77	GLU
13	6h	94	SER
13	6h	120	ASP
13	6h	165	SER
13	6h	170	THR
13	6h	178	SER
13	6h	191	THR
13	6h	211	ASP
13	6h	213	CYS
13	6h	225	THR
13	6h	303	VAL
13	6h	361	THR
13	6h	387	ILE
13	7b	74	VAL
13	7b	77	GLU
13	7b	94	SER
13	7b	120	ASP
13	7b	165	SER
13	7b	170	THR
13	7b	178	SER
13	7b	191	THR
13	7b	211	ASP
13	7b	213	CYS
13	7b	225	THR
13	7b	303	VAL
13	7b	361	THR
13	7b	387	ILE
13	7d	74	VAL
13	7d	77	GLU
13	7d	94	SER
13	7d	120	ASP
13	7d	165	SER

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Mol	Chain	Res	Type
13	7d	170	THR
13	7d	178	SER
13	7d	191	THR
13	7d	211	ASP
13	7d	213	CYS
13	7d	225	THR
13	7d	303	VAL
13	7d	361	THR
13	7d	387	ILE
13	7f	74	VAL
13	7f	77	GLU
13	7f	94	SER
13	7f	120	ASP
13	7f	165	SER
13	7f	170	THR
13	7f	178	SER
13	7f	191	THR
13	7f	211	ASP
13	7f	213	CYS
13	7f	225	THR
13	7f	303	VAL
13	7f	361	THR
13	7f	387	ILE
13	7h	74	VAL
13	7h	77	GLU
13	7h	94	SER
13	7h	120	ASP
13	7h	165	SER
13	7h	170	THR
13	7h	178	SER
13	7h	191	THR
13	7h	211	ASP
13	7h	213	CYS
13	7h	225	THR
13	7h	303	VAL
13	7h	361	THR
13	7h	387	ILE
13	8b	74	VAL
13	8b	77	GLU
13	8b	94	SER
13	8b	120	ASP
13	8b	165	SER

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Mol	Chain	Res	Type
13	8b	170	THR
13	8b	178	SER
13	8b	191	THR
13	8b	211	ASP
13	8b	213	CYS
13	8b	225	THR
13	8b	303	VAL
13	8b	361	THR
13	8b	387	ILE
13	8d	74	VAL
13	8d	77	GLU
13	8d	94	SER
13	8d	120	ASP
13	8d	165	SER
13	8d	170	THR
13	8d	178	SER
13	8d	191	THR
13	8d	211	ASP
13	8d	213	CYS
13	8d	225	THR
13	8d	303	VAL
13	8d	361	THR
13	8d	387	ILE
13	8f	74	VAL
13	8f	77	GLU
13	8f	94	SER
13	8f	120	ASP
13	8f	165	SER
13	8f	170	THR
13	8f	178	SER
13	8f	191	THR
13	8f	211	ASP
13	8f	213	CYS
13	8f	225	THR
13	8f	303	VAL
13	8f	361	THR
13	8f	387	ILE
13	8h	74	VAL
13	8h	77	GLU
13	8h	94	SER
13	8h	120	ASP
13	8h	165	SER

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Mol	Chain	Res	Type
13	8h	170	THR
13	8h	178	SER
13	8h	191	THR
13	8h	211	ASP
13	8h	213	CYS
13	8h	225	THR
13	8h	303	VAL
13	8h	361	THR
13	8h	387	ILE
13	9b	74	VAL
13	9b	77	GLU
13	9b	94	SER
13	9b	120	ASP
13	9b	165	SER
13	9b	170	THR
13	9b	178	SER
13	9b	191	THR
13	9b	211	ASP
13	9b	213	CYS
13	9b	225	THR
13	9b	303	VAL
13	9b	361	THR
13	9b	387	ILE
13	9d	74	VAL
13	9d	77	GLU
13	9d	94	SER
13	9d	120	ASP
13	9d	165	SER
13	9d	170	THR
13	9d	178	SER
13	9d	191	THR
13	9d	211	ASP
13	9d	213	CYS
13	9d	225	THR
13	9d	303	VAL
13	9d	361	THR
13	9d	387	ILE
13	9f	74	VAL
13	9f	77	GLU
13	9f	94	SER
13	9f	120	ASP
13	9f	165	SER

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Mol	Chain	Res	Type
13	9f	170	THR
13	9f	178	SER
13	9f	191	THR
13	9f	211	ASP
13	9f	213	CYS
13	9f	225	THR
13	9f	303	VAL
13	9f	361	THR
13	9f	387	ILE
13	9h	74	VAL
13	9h	77	GLU
13	9h	94	SER
13	9h	120	ASP
13	9h	165	SER
13	9h	170	THR
13	9h	178	SER
13	9h	191	THR
13	9h	211	ASP
13	9h	213	CYS
13	9h	225	THR
13	9h	303	VAL
13	9h	361	THR
13	9h	387	ILE
13	Ab	74	VAL
13	Ab	77	GLU
13	Ab	94	SER
13	Ab	120	ASP
13	Ab	165	SER
13	Ab	170	THR
13	Ab	178	SER
13	Ab	191	THR
13	Ab	211	ASP
13	Ab	213	CYS
13	Ab	225	THR
13	Ab	303	VAL
13	Ab	361	THR
13	Ab	387	ILE
13	Ad	74	VAL
13	Ad	77	GLU
13	Ad	94	SER
13	Ad	120	ASP
13	Ad	165	SER

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Mol	Chain	Res	Type
13	Ad	170	THR
13	Ad	178	SER
13	Ad	191	THR
13	Ad	211	ASP
13	Ad	213	CYS
13	Ad	225	THR
13	Ad	303	VAL
13	Ad	361	THR
13	Ad	387	ILE
13	Af	74	VAL
13	Af	77	GLU
13	Af	94	SER
13	Af	120	ASP
13	Af	165	SER
13	Af	170	THR
13	Af	178	SER
13	Af	191	THR
13	Af	211	ASP
13	Af	213	CYS
13	Af	225	THR
13	Af	303	VAL
13	Af	361	THR
13	Af	387	ILE
13	Ah	74	VAL
13	Ah	77	GLU
13	Ah	94	SER
13	Ah	120	ASP
13	Ah	165	SER
13	Ah	170	THR
13	Ah	178	SER
13	Ah	191	THR
13	Ah	211	ASP
13	Ah	213	CYS
13	Ah	225	THR
13	Ah	303	VAL
13	Ah	361	THR
13	Ah	387	ILE
13	Bb	74	VAL
13	Bb	77	GLU
13	Bb	94	SER
13	Bb	120	ASP
13	Bb	165	SER

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Mol	Chain	Res	Type
13	Bb	170	THR
13	Bb	178	SER
13	Bb	191	THR
13	Bb	211	ASP
13	Bb	213	CYS
13	Bb	225	THR
13	Bb	303	VAL
13	Bb	361	THR
13	Bb	387	ILE
13	Bd	74	VAL
13	Bd	77	GLU
13	Bd	94	SER
13	Bd	120	ASP
13	Bd	165	SER
13	Bd	170	THR
13	Bd	178	SER
13	Bd	191	THR
13	Bd	211	ASP
13	Bd	213	CYS
13	Bd	225	THR
13	Bd	303	VAL
13	Bd	361	THR
13	Bd	387	ILE
13	Bf	74	VAL
13	Bf	77	GLU
13	Bf	94	SER
13	Bf	120	ASP
13	Bf	165	SER
13	Bf	170	THR
13	Bf	178	SER
13	Bf	191	THR
13	Bf	211	ASP
13	Bf	213	CYS
13	Bf	225	THR
13	Bf	303	VAL
13	Bf	361	THR
13	Bf	387	ILE
13	Bh	74	VAL
13	Bh	77	GLU
13	Bh	94	SER
13	Bh	120	ASP
13	Bh	165	SER

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Mol	Chain	Res	Type
13	Bh	170	THR
13	Bh	178	SER
13	Bh	191	THR
13	Bh	211	ASP
13	Bh	213	CYS
13	Bh	225	THR
13	Bh	303	VAL
13	Bh	361	THR
13	Bh	387	ILE
13	Cb	74	VAL
13	Cb	77	GLU
13	Cb	94	SER
13	Cb	120	ASP
13	Cb	165	SER
13	Cb	170	THR
13	Cb	178	SER
13	Cb	191	THR
13	Cb	211	ASP
13	Cb	213	CYS
13	Cb	225	THR
13	Cb	303	VAL
13	Cb	361	THR
13	Cb	387	ILE
13	Cd	74	VAL
13	Cd	77	GLU
13	Cd	94	SER
13	Cd	120	ASP
13	Cd	165	SER
13	Cd	170	THR
13	Cd	178	SER
13	Cd	191	THR
13	Cd	211	ASP
13	Cd	213	CYS
13	Cd	225	THR
13	Cd	303	VAL
13	Cd	361	THR
13	Cd	387	ILE
13	Cf	74	VAL
13	Cf	77	GLU
13	Cf	94	SER
13	Cf	120	ASP
13	Cf	165	SER

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Mol	Chain	Res	Type
13	Cf	170	THR
13	Cf	178	SER
13	Cf	191	THR
13	Cf	211	ASP
13	Cf	213	CYS
13	Cf	225	THR
13	Cf	303	VAL
13	Cf	361	THR
13	Cf	387	ILE
13	Ch	74	VAL
13	Ch	77	GLU
13	Ch	94	SER
13	Ch	120	ASP
13	Ch	165	SER
13	Ch	170	THR
13	Ch	178	SER
13	Ch	191	THR
13	Ch	211	ASP
13	Ch	213	CYS
13	Ch	225	THR
13	Ch	303	VAL
13	Ch	361	THR
13	Ch	387	ILE
13	Db	74	VAL
13	Db	77	GLU
13	Db	94	SER
13	Db	120	ASP
13	Db	165	SER
13	Db	170	THR
13	Db	178	SER
13	Db	191	THR
13	Db	211	ASP
13	Db	213	CYS
13	Db	225	THR
13	Db	303	VAL
13	Db	361	THR
13	Db	387	ILE
13	Dd	74	VAL
13	Dd	77	GLU
13	Dd	94	SER
13	Dd	120	ASP
13	Dd	165	SER

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Mol	Chain	Res	Type
13	Dd	170	THR
13	Dd	178	SER
13	Dd	191	THR
13	Dd	211	ASP
13	Dd	213	CYS
13	Dd	225	THR
13	Dd	303	VAL
13	Dd	361	THR
13	Dd	387	ILE
13	Df	74	VAL
13	Df	77	GLU
13	Df	94	SER
13	Df	120	ASP
13	Df	165	SER
13	Df	170	THR
13	Df	178	SER
13	Df	191	THR
13	Df	211	ASP
13	Df	213	CYS
13	Df	225	THR
13	Df	303	VAL
13	Df	361	THR
13	Df	387	ILE
13	Dh	74	VAL
13	Dh	77	GLU
13	Dh	94	SER
13	Dh	120	ASP
13	Dh	165	SER
13	Dh	170	THR
13	Dh	178	SER
13	Dh	191	THR
13	Dh	211	ASP
13	Dh	213	CYS
13	Dh	225	THR
13	Dh	303	VAL
13	Dh	361	THR
13	Dh	387	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1608) such sidechains are listed below:

Mol	Chain	Res	Type
1	0A	32	GLN

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Mol	Chain	Res	Type
1	0A	39	GLN
1	0A	58	GLN
1	0A	87	GLN
1	0A	161	GLN
1	0A	177	GLN
1	0A	292	ASN
1	0B	39	GLN
1	0B	162	GLN
1	0B	203	GLN
1	0B	235	GLN
1	0B	270	HIS
1	0B	287	GLN
1	0B	309	ASN
1	0B	351	HIS
1	0C	58	GLN
1	0C	87	GLN
1	0C	96	ASN
1	0C	177	GLN
1	0C	203	GLN
1	0C	235	GLN
1	0C	270	HIS
1	0C	292	ASN
1	0D	162	GLN
1	0D	203	GLN
1	0D	235	GLN
1	0D	270	HIS
1	0D	292	ASN
1	0D	308	ASN
1	0D	309	ASN
1	0D	345	ASN
1	0D	351	HIS
1	0D	370	HIS
1	0E	58	GLN
1	0E	95	GLN
1	0E	161	GLN
1	0E	177	GLN
1	0E	203	GLN
1	0E	235	GLN
1	0E	239	HIS
1	0E	270	HIS
1	0E	292	ASN
1	0E	366	HIS

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Mol	Chain	Res	Type
1	0F	96	ASN
1	0F	113	HIS
1	0F	203	GLN
1	0F	235	GLN
1	0F	270	HIS
1	0F	292	ASN
1	0F	308	ASN
1	0F	309	ASN
1	0F	345	ASN
1	0F	351	HIS
1	0G	96	ASN
1	0G	203	GLN
1	0G	235	GLN
1	0G	270	HIS
1	0G	292	ASN
1	0G	308	ASN
1	0G	309	ASN
1	0G	345	ASN
1	0G	370	HIS
1	0G	413	HIS
1	0L	58	GLN
1	0L	87	GLN
1	0L	96	ASN
1	0L	161	GLN
1	0L	177	GLN
1	0L	203	GLN
1	0L	239	HIS
1	0L	292	ASN
1	0L	345	ASN
1	0L	370	HIS
1	0M	96	ASN
1	0M	162	GLN
1	0M	292	ASN
1	0M	308	ASN
1	0M	309	ASN
1	0M	345	ASN
1	0M	370	HIS
1	0M	413	HIS
1	0N	30	ASN
1	0N	58	GLN
1	0N	161	GLN
1	0N	177	GLN

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Mol	Chain	Res	Type
1	0N	292	ASN
1	0N	345	ASN
1	0O	235	GLN
1	0O	270	HIS
1	0O	281	HIS
1	0O	292	ASN
1	0O	308	ASN
1	0O	309	ASN
1	0O	345	ASN
1	0O	370	HIS
1	0O	413	HIS
1	0P	33	ASN
1	0P	58	GLN
1	0P	59	GLN
1	0P	87	GLN
1	0P	96	ASN
1	0P	101	GLN
1	0P	161	GLN
1	0P	177	GLN
1	0P	270	HIS
1	0P	292	ASN
1	0P	345	ASN
1	0P	351	HIS
1	0Q	87	GLN
1	0Q	95	GLN
1	0Q	281	HIS
1	0Q	292	ASN
1	0Q	308	ASN
1	0Q	309	ASN
1	0Q	345	ASN
1	0Q	351	HIS
1	0R	58	GLN
1	0R	177	GLN
1	0R	235	GLN
1	0R	292	ASN
1	0R	345	ASN
1	0S	203	GLN
1	0S	235	GLN
1	0S	270	HIS
1	0S	292	ASN
1	0S	308	ASN
1	0S	309	ASN

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Mol	Chain	Res	Type
1	0S	345	ASN
1	0S	351	HIS
1	0T	58	GLN
1	0T	96	ASN
1	0T	177	GLN
1	0T	235	GLN
1	0T	292	ASN
1	0U	59	GLN
1	0U	87	GLN
1	0U	203	GLN
1	0U	235	GLN
1	0U	270	HIS
1	0U	292	ASN
1	0U	309	ASN
1	0U	345	ASN
1	0V	58	GLN
1	0V	87	GLN
1	0V	161	GLN
1	0V	177	GLN
1	0V	203	GLN
1	0V	235	GLN
1	0V	239	HIS
1	0V	270	HIS
1	0V	292	ASN
1	0V	366	HIS
1	0X	58	GLN
1	0X	161	GLN
1	0X	177	GLN
1	0X	203	GLN
1	0X	270	HIS
1	0X	292	ASN
1	0Y	30	ASN
1	0Y	162	GLN
1	0Y	203	GLN
1	0Y	235	GLN
1	0Y	270	HIS
1	0Y	308	ASN
1	0Y	309	ASN
1	0Z	58	GLN
1	0Z	96	ASN
1	0Z	177	GLN
1	0Z	203	GLN

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Mol	Chain	Res	Type
1	0Z	235	GLN
1	0Z	270	HIS
1	0Z	292	ASN
1	0Z	345	ASN
1	1A	58	GLN
1	1A	87	GLN
1	1A	95	GLN
1	1A	162	GLN
1	1A	235	GLN
1	1A	292	ASN
1	1A	309	ASN
1	1A	345	ASN
1	1A	370	HIS
1	1B	58	GLN
1	1B	95	GLN
1	1B	96	ASN
1	1B	101	GLN
1	1B	119	GLN
1	1B	156	ASN
1	1B	177	GLN
1	1B	220	ASN
1	1B	228	GLN
1	1B	235	GLN
1	1B	270	HIS
1	1B	345	ASN
1	1B	362	GLN
1	1C	95	GLN
1	1C	113	HIS
1	1C	162	GLN
1	1C	235	GLN
1	1C	270	HIS
1	1C	292	ASN
1	1C	308	ASN
1	1C	309	ASN
1	1C	345	ASN
2	1D	120	GLN
2	1D	153	GLN
2	1D	211	HIS
2	1E	33	ASN
2	1E	120	GLN
2	1E	153	GLN
2	1E	211	HIS

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Mol	Chain	Res	Type
2	1F	120	GLN
2	1F	153	GLN
2	1G	20	GLN
2	1G	114	HIS
2	1G	120	GLN
2	1G	153	GLN
2	1G	231	ASN
3	1H	105	HIS
3	1H	228	ASN
3	1H	242	GLN
3	1H	593	GLN
3	1H	623	HIS
3	1H	686	HIS
3	1H	834	HIS
3	1H	842	HIS
3	1H	864	HIS
3	1H	867	GLN
3	1H	925	ASN
3	1H	1028	GLN
3	1H	1053	GLN
3	1I	105	HIS
3	1I	228	ASN
3	1I	242	GLN
3	1I	593	GLN
3	1I	623	HIS
3	1I	686	HIS
3	1I	753	HIS
3	1I	834	HIS
3	1I	860	HIS
3	1I	867	GLN
3	1I	1028	GLN
4	1J	26	GLN
4	1J	30	ASN
4	1J	66	HIS
4	1J	75	HIS
4	1J	88	GLN
4	1J	219	ASN
4	1J	251	GLN
4	1J	271	GLN
4	1J	281	GLN
4	1J	329	GLN
4	1K	26	GLN

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Mol	Chain	Res	Type
4	1K	30	ASN
4	1K	88	GLN
4	1K	219	ASN
4	1K	271	GLN
4	1K	281	GLN
4	1K	329	GLN
5	1L	459	GLN
5	1L	563	GLN
5	1M	459	GLN
5	1M	563	GLN
6	1N	3	GLN
6	1N	9	GLN
6	1N	37	GLN
6	1N	75	GLN
6	1N	151	HIS
6	1N	229	HIS
6	1N	261	HIS
6	1N	322	GLN
6	1N	727	ASN
6	1N	731	GLN
6	1N	818	ASN
6	1N	1082	ASN
6	1N	1133	GLN
6	1N	1189	ASN
6	1N	1213	HIS
6	1N	1357	HIS
6	1N	1386	HIS
6	1N	1387	HIS
6	1N	1733	GLN
6	1N	1767	ASN
6	1N	1860	GLN
6	1N	1878	GLN
6	1N	2159	GLN
6	1N	2173	GLN
6	1N	2664	GLN
6	1N	2760	GLN
7	1O	238	GLN
7	1O	330	HIS
7	1O	788	GLN
7	1O	862	GLN
7	1O	1057	HIS
7	1O	1076	GLN

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Mol	Chain	Res	Type
7	1O	1206	HIS
7	1O	1315	GLN
7	1O	1379	GLN
7	1O	1869	ASN
7	1O	1878	GLN
7	1O	1986	GLN
7	1O	2017	HIS
7	1O	2028	ASN
7	1O	2072	HIS
7	1O	2187	HIS
7	1O	2465	GLN
7	1O	2492	ASN
7	1O	2533	HIS
7	1O	2876	HIS
7	1O	2893	HIS
8	1P	709	GLN
8	1P	711	HIS
8	1P	847	HIS
8	1P	878	GLN
8	1P	983	HIS
10	1R	40	HIS
10	1R	44	GLN
10	1R	63	GLN
10	1R	115	HIS
10	1R	147	HIS
10	1R	260	GLN
10	1R	418	ASN
10	1R	441	HIS
10	1S	40	HIS
10	1S	44	GLN
10	1S	115	HIS
10	1S	157	ASN
10	1S	406	ASN
10	1S	418	ASN
10	1S	441	HIS
12	1a	48	ASN
12	1a	94	GLN
12	1a	99	ASN
12	1a	195	ASN
12	1a	204	ASN
12	1a	245	GLN
12	1a	298	ASN

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Mol	Chain	Res	Type
12	1a	348	ASN
12	1a	384	GLN
13	1b	15	GLN
13	1b	342	GLN
12	1c	11	GLN
12	1c	14	ASN
12	1c	43	GLN
12	1c	83	GLN
12	1c	99	ASN
12	1c	227	HIS
12	1c	245	GLN
12	1c	291	GLN
12	1c	347	ASN
12	1c	375	GLN
12	1c	384	GLN
13	1d	15	GLN
13	1d	228	ASN
13	1d	342	GLN
12	1e	48	ASN
12	1e	99	ASN
12	1e	100	ASN
12	1e	195	ASN
12	1e	204	ASN
12	1e	245	GLN
12	1e	279	GLN
12	1e	298	ASN
13	1f	15	GLN
13	1f	228	ASN
13	1f	258	ASN
13	1f	342	GLN
12	1g	11	GLN
12	1g	14	ASN
12	1g	43	GLN
12	1g	83	GLN
12	1g	89	ASN
12	1g	99	ASN
12	1g	245	GLN
12	1g	247	ASN
12	1g	291	GLN
12	1g	347	ASN
12	1g	375	GLN
12	1g	384	GLN

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Mol	Chain	Res	Type
13	1h	15	GLN
13	1h	342	GLN
14	2F	30	ASN
14	2F	42	ASN
14	2F	63	GLN
14	2F	116	GLN
14	2G	30	ASN
14	2G	42	ASN
14	2G	63	GLN
14	2G	82	GLN
24	2T	188	ASN
24	2U	123	HIS
24	2U	153	ASN
24	2U	163	GLN
24	2U	172	HIS
24	2U	187	HIS
24	2V	126	ASN
24	2V	193	GLN
12	2a	99	ASN
12	2a	100	ASN
12	2a	195	ASN
12	2a	204	ASN
12	2a	256	ASN
12	2a	298	ASN
12	2a	348	ASN
13	2b	15	GLN
13	2b	228	ASN
13	2b	283	HIS
13	2b	342	GLN
12	2c	11	GLN
12	2c	43	GLN
12	2c	83	GLN
12	2c	204	ASN
12	2c	227	HIS
12	2c	245	GLN
12	2c	291	GLN
12	2c	347	ASN
12	2c	375	GLN
12	2c	384	GLN
12	2c	426	GLN
13	2d	15	GLN
13	2d	228	ASN

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Mol	Chain	Res	Type
13	2d	283	HIS
13	2d	342	GLN
12	2e	99	ASN
12	2e	195	ASN
12	2e	204	ASN
12	2e	245	GLN
12	2e	298	ASN
12	2e	348	ASN
13	2f	15	GLN
13	2f	228	ASN
13	2f	283	HIS
13	2f	329	ASN
13	2f	342	GLN
12	2g	11	GLN
12	2g	43	GLN
12	2g	83	GLN
12	2g	227	HIS
12	2g	245	GLN
12	2g	256	ASN
12	2g	291	GLN
12	2g	347	ASN
12	2g	375	GLN
12	2g	384	GLN
12	2g	426	GLN
13	2h	15	GLN
13	2h	228	ASN
13	2h	283	HIS
13	2h	342	GLN
28	3C	577	GLN
30	3F	338	ASN
30	3F	340	GLN
30	3F	344	ASN
30	3F	409	GLN
30	3G	658	GLN
30	3G	686	GLN
31	3I	119	HIS
31	3I	174	GLN
31	3I	279	GLN
31	3I	289	ASN
31	3I	326	GLN
31	3I	331	GLN
31	3I	455	GLN

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Mol	Chain	Res	Type
32	3J	25	ASN
32	3J	64	GLN
32	3J	79	HIS
32	3J	137	HIS
32	3J	143	ASN
32	3J	160	GLN
32	3J	166	HIS
32	3J	401	GLN
32	3K	52	ASN
32	3K	64	GLN
32	3K	115	GLN
32	3K	137	HIS
32	3K	143	ASN
32	3K	160	GLN
32	3K	166	HIS
32	3K	315	GLN
33	3L	55	ASN
34	3M	35	GLN
34	3M	45	ASN
34	3M	52	GLN
34	3M	61	HIS
34	3M	64	HIS
34	3M	75	GLN
34	3M	78	HIS
34	3M	96	HIS
34	3M	255	HIS
34	3M	266	HIS
34	3M	372	GLN
34	3M	386	HIS
34	3M	452	HIS
34	3M	503	ASN
34	3N	38	HIS
34	3N	64	HIS
34	3N	255	HIS
34	3N	372	GLN
34	3N	404	HIS
34	3N	452	HIS
34	3O	35	GLN
34	3O	55	GLN
34	3O	61	HIS
34	3O	78	HIS
34	3O	87	ASN

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Mol	Chain	Res	Type
34	3O	118	HIS
34	3O	122	GLN
34	3O	265	GLN
34	3O	281	GLN
34	3O	313	HIS
34	3O	315	GLN
34	3O	490	GLN
34	3O	503	ASN
34	3P	52	GLN
34	3P	61	HIS
34	3P	64	HIS
34	3P	295	GLN
34	3P	313	HIS
34	3P	324	HIS
34	3P	372	GLN
34	3P	381	ASN
34	3P	386	HIS
34	3P	452	HIS
34	3P	463	HIS
34	3Q	47	ASN
34	3Q	75	GLN
34	3Q	78	HIS
34	3Q	87	ASN
34	3Q	102	GLN
34	3Q	118	HIS
34	3Q	122	GLN
34	3Q	268	GLN
34	3Q	281	GLN
34	3Q	313	HIS
34	3Q	315	GLN
34	3Q	463	HIS
34	3Q	503	ASN
34	3R	35	GLN
34	3R	38	HIS
34	3R	47	ASN
34	3R	61	HIS
34	3R	64	HIS
34	3R	77	GLN
34	3R	313	HIS
34	3R	315	GLN
34	3R	324	HIS
34	3R	337	GLN

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Mol	Chain	Res	Type
34	3R	342	GLN
34	3R	404	HIS
34	3R	422	HIS
34	3R	452	HIS
34	3S	35	GLN
34	3S	61	HIS
34	3S	64	HIS
34	3S	75	GLN
34	3S	78	HIS
34	3S	86	GLN
34	3S	190	ASN
34	3S	255	HIS
34	3S	266	HIS
34	3S	315	GLN
34	3S	384	ASN
34	3S	452	HIS
34	3S	503	ASN
34	3T	33	GLN
34	3T	38	HIS
34	3T	40	ASN
34	3T	64	HIS
34	3T	197	ASN
34	3T	255	HIS
34	3T	350	ASN
34	3T	381	ASN
34	3T	384	ASN
34	3T	452	HIS
34	3T	494	GLN
34	3U	61	HIS
34	3U	64	HIS
34	3U	102	GLN
34	3U	118	HIS
34	3U	266	HIS
34	3U	295	GLN
34	3U	313	HIS
34	3U	324	HIS
34	3U	372	GLN
34	3U	452	HIS
34	3U	463	HIS
34	3U	495	GLN
34	3V	47	ASN
34	3V	86	GLN

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Mol	Chain	Res	Type
34	3V	118	HIS
34	3V	123	GLN
34	3V	245	ASN
34	3V	313	HIS
34	3V	324	HIS
34	3V	342	GLN
34	3V	404	HIS
34	3V	422	HIS
34	3V	452	HIS
34	3V	495	GLN
34	3W	35	GLN
34	3W	61	HIS
34	3W	78	HIS
34	3W	102	GLN
34	3W	118	HIS
34	3W	122	GLN
34	3W	198	ASN
34	3W	313	HIS
34	3W	315	GLN
34	3W	342	GLN
34	3W	452	HIS
34	3X	33	GLN
34	3X	40	ASN
34	3X	64	HIS
34	3X	75	GLN
34	3X	122	GLN
34	3X	265	GLN
34	3X	315	GLN
34	3X	342	GLN
34	3X	372	GLN
34	3X	410	HIS
34	3X	422	HIS
34	3X	452	HIS
34	3X	463	HIS
34	3X	490	GLN
34	3Y	35	GLN
34	3Y	38	HIS
34	3Y	47	ASN
34	3Y	61	HIS
34	3Y	64	HIS
34	3Y	77	GLN
34	3Y	315	GLN

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Mol	Chain	Res	Type
34	3Y	324	HIS
34	3Y	342	GLN
34	3Y	422	HIS
34	3Y	452	HIS
34	3Z	33	GLN
34	3Z	40	ASN
34	3Z	64	HIS
34	3Z	75	GLN
34	3Z	122	GLN
34	3Z	255	HIS
34	3Z	315	GLN
34	3Z	342	GLN
34	3Z	372	GLN
34	3Z	410	HIS
34	3Z	422	HIS
34	3Z	452	HIS
34	3Z	463	HIS
34	3Z	503	ASN
12	3a	6	HIS
12	3a	48	ASN
12	3a	99	ASN
12	3a	100	ASN
12	3a	131	GLN
12	3a	195	ASN
12	3a	204	ASN
12	3a	247	ASN
12	3a	256	ASN
12	3a	298	ASN
12	3a	332	ASN
12	3a	348	ASN
13	3b	15	GLN
13	3b	228	ASN
13	3b	342	GLN
12	3c	11	GLN
12	3c	14	ASN
12	3c	43	GLN
12	3c	83	GLN
12	3c	245	GLN
12	3c	332	ASN
12	3c	347	ASN
12	3c	375	GLN
12	3c	384	GLN

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Mol	Chain	Res	Type
13	3d	15	GLN
13	3d	228	ASN
13	3d	283	HIS
13	3d	342	GLN
12	3e	6	HIS
12	3e	100	ASN
12	3e	131	GLN
12	3e	195	ASN
12	3e	204	ASN
12	3e	245	GLN
12	3e	298	ASN
13	3f	15	GLN
13	3f	228	ASN
13	3f	342	GLN
13	3f	406	HIS
12	3g	11	GLN
12	3g	14	ASN
12	3g	43	GLN
12	3g	83	GLN
12	3g	227	HIS
12	3g	247	ASN
12	3g	256	ASN
12	3g	279	GLN
12	3g	329	GLN
12	3g	332	ASN
12	3g	347	ASN
12	3g	384	GLN
13	3h	15	GLN
13	3h	228	ASN
13	3h	342	GLN
34	4A	47	ASN
34	4A	86	GLN
34	4A	102	GLN
34	4A	118	HIS
34	4A	245	ASN
34	4A	265	GLN
34	4A	313	HIS
34	4A	315	GLN
34	4A	324	HIS
34	4A	342	GLN
34	4A	404	HIS
34	4A	422	HIS

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Mol	Chain	Res	Type
34	4A	452	HIS
34	4A	495	GLN
34	4B	35	GLN
34	4B	45	ASN
34	4B	61	HIS
34	4B	78	HIS
34	4B	102	GLN
34	4B	118	HIS
34	4B	122	GLN
34	4B	313	HIS
34	4B	315	GLN
34	4B	342	GLN
34	4B	452	HIS
34	4B	463	HIS
35	4C	289	GLN
35	4C	317	ASN
35	4C	336	HIS
35	4C	382	GLN
35	4C	451	GLN
35	4C	511	HIS
35	4C	571	ASN
35	4C	575	GLN
35	4C	579	GLN
35	4C	763	HIS
35	4C	817	ASN
35	4C	831	ASN
35	4C	960	GLN
35	4C	1088	GLN
36	4D	24	GLN
36	4D	63	HIS
36	4D	122	HIS
36	4D	236	HIS
36	4D	245	HIS
36	4D	275	ASN
37	4E	674	HIS
37	4E	766	HIS
37	4E	786	GLN
37	4E	1114	HIS
37	4E	1470	GLN
37	4E	1528	HIS
37	4E	1701	GLN
37	4E	1726	HIS

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Mol	Chain	Res	Type
37	4E	1739	GLN
37	4F	511	ASN
37	4F	534	HIS
37	4F	539	GLN
37	4F	543	ASN
37	4F	582	GLN
37	4F	686	HIS
37	4F	697	GLN
37	4F	774	HIS
37	4F	902	GLN
37	4F	918	GLN
37	4F	1081	HIS
37	4F	1133	ASN
37	4F	1392	GLN
37	4F	1526	HIS
37	4G	511	ASN
37	4G	539	GLN
37	4G	543	ASN
37	4G	686	HIS
37	4G	697	GLN
37	4G	774	HIS
37	4G	902	GLN
37	4G	918	GLN
37	4G	1392	GLN
37	4G	1526	HIS
37	4H	510	HIS
37	4H	686	HIS
37	4H	697	GLN
37	4H	774	HIS
37	4H	818	ASN
37	4H	918	GLN
37	4H	1392	GLN
37	4H	1753	GLN
38	4I	43	ASN
38	4I	66	GLN
38	4J	39	HIS
38	4J	43	ASN
38	4J	63	GLN
38	4K	39	HIS
38	4K	43	ASN
38	4K	63	GLN
38	4L	43	ASN

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Mol	Chain	Res	Type
38	4M	39	HIS
38	4M	43	ASN
38	4N	39	HIS
38	4N	43	ASN
38	4O	39	HIS
38	4O	66	GLN
38	4P	39	HIS
38	4P	63	GLN
38	4P	87	HIS
39	4Q	34	ASN
39	4Q	131	HIS
39	4Q	167	HIS
39	4R	131	HIS
39	4S	34	ASN
39	4S	131	HIS
39	4S	209	GLN
40	4T	49	ASN
40	4T	74	GLN
40	4T	171	HIS
40	4T	262	GLN
40	4T	276	GLN
40	4T	293	HIS
40	4T	324	ASN
40	4T	481	ASN
40	4T	616	HIS
40	4T	662	HIS
40	4U	49	ASN
40	4U	74	GLN
40	4U	171	HIS
40	4U	262	GLN
40	4U	276	GLN
40	4U	293	HIS
40	4U	324	ASN
40	4U	481	ASN
40	4U	503	HIS
40	4U	616	HIS
40	4U	662	HIS
40	4V	49	ASN
40	4V	74	GLN
40	4V	171	HIS
40	4V	262	GLN
40	4V	276	GLN

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Mol	Chain	Res	Type
40	4V	293	HIS
40	4V	324	ASN
40	4V	481	ASN
40	4V	616	HIS
12	4a	6	HIS
12	4a	195	ASN
12	4a	204	ASN
12	4a	298	ASN
12	4a	348	ASN
13	4b	15	GLN
13	4b	228	ASN
13	4b	342	GLN
12	4c	43	GLN
12	4c	83	GLN
12	4c	227	HIS
12	4c	245	GLN
12	4c	291	GLN
12	4c	347	ASN
12	4c	375	GLN
12	4c	384	GLN
13	4d	15	GLN
13	4d	228	ASN
13	4d	342	GLN
12	4e	37	HIS
12	4e	204	ASN
12	4e	298	ASN
12	4e	348	ASN
13	4f	15	GLN
13	4f	342	GLN
12	4g	14	ASN
12	4g	43	GLN
12	4g	83	GLN
12	4g	99	ASN
12	4g	245	GLN
12	4g	247	ASN
12	4g	256	ASN
12	4g	291	GLN
12	4g	347	ASN
12	4g	375	GLN
13	4h	15	GLN
13	4h	228	ASN
13	4h	309	HIS

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Mol	Chain	Res	Type
13	4h	342	GLN
42	5E	9	HIS
42	5E	79	HIS
42	5E	83	GLN
42	5E	104	GLN
42	5E	136	HIS
42	5E	148	GLN
42	5E	150	HIS
42	5F	9	HIS
42	5F	79	HIS
42	5F	83	GLN
42	5G	9	HIS
42	5G	79	HIS
42	5G	83	GLN
42	5H	79	HIS
42	5H	148	GLN
43	5I	22	HIS
43	5I	51	HIS
43	5I	83	HIS
43	5I	107	HIS
43	5I	148	ASN
43	5J	20	HIS
43	5J	22	HIS
43	5J	51	HIS
43	5J	57	HIS
43	5J	83	HIS
43	5J	107	HIS
43	5J	138	HIS
43	5K	22	HIS
43	5K	51	HIS
43	5K	83	HIS
43	5K	138	HIS
43	5L	20	HIS
43	5L	22	HIS
43	5L	45	ASN
43	5L	148	ASN
43	5L	158	HIS
44	5Q	64	ASN
44	5Q	101	ASN
44	5Q	115	ASN
44	5R	64	ASN
44	5R	115	ASN

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Mol	Chain	Res	Type
44	5S	111	HIS
44	5T	111	HIS
44	5U	64	ASN
44	5U	111	HIS
44	5U	139	GLN
44	5V	7	GLN
44	5V	12	GLN
44	5V	64	ASN
46	5Z	67	HIS
46	5Z	110	HIS
12	5a	6	HIS
12	5a	99	ASN
12	5a	195	ASN
12	5a	204	ASN
12	5a	247	ASN
12	5a	256	ASN
12	5a	298	ASN
12	5a	424	GLN
13	5b	15	GLN
13	5b	228	ASN
13	5b	342	GLN
12	5c	14	ASN
12	5c	43	GLN
12	5c	83	GLN
12	5c	245	GLN
12	5c	247	ASN
12	5c	256	ASN
12	5c	291	GLN
12	5c	347	ASN
12	5c	375	GLN
13	5d	15	GLN
13	5d	283	HIS
13	5d	342	GLN
12	5e	14	ASN
12	5e	37	HIS
12	5e	48	ASN
12	5e	195	ASN
12	5e	204	ASN
12	5e	256	ASN
12	5e	298	ASN
12	5e	348	ASN
12	5e	416	ASN

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Mol	Chain	Res	Type
13	5f	15	GLN
13	5f	283	HIS
13	5f	342	GLN
12	5g	14	ASN
12	5g	83	GLN
12	5g	99	ASN
12	5g	227	HIS
12	5g	247	ASN
12	5g	256	ASN
12	5g	291	GLN
12	5g	347	ASN
12	5g	375	GLN
13	5h	15	GLN
13	5h	228	ASN
13	5h	283	HIS
13	5h	342	GLN
47	6A	73	HIS
47	6A	80	ASN
47	6A	137	HIS
47	6A	200	GLN
47	6A	230	HIS
47	6A	264	HIS
47	6A	291	GLN
47	6A	381	GLN
47	6A	386	GLN
47	6A	397	GLN
47	6A	412	GLN
47	6A	611	GLN
47	6A	693	GLN
47	6A	812	GLN
47	6A	853	HIS
47	6A	884	GLN
47	6A	1059	HIS
47	6A	1287	GLN
47	6A	1647	GLN
47	6B	73	HIS
47	6B	80	ASN
47	6B	137	HIS
47	6B	200	GLN
47	6B	208	GLN
47	6B	264	HIS
47	6B	291	GLN

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Mol	Chain	Res	Type
47	6B	381	GLN
47	6B	386	GLN
47	6B	397	GLN
47	6B	412	GLN
47	6B	611	GLN
47	6B	693	GLN
47	6B	812	GLN
47	6B	853	HIS
47	6B	884	GLN
47	6B	885	HIS
47	6B	1059	HIS
47	6B	1287	GLN
47	6B	1647	GLN
3	6D	46	ASN
3	6D	514	ASN
3	6D	677	HIS
3	6D	769	ASN
3	6D	834	HIS
3	6D	842	HIS
3	6D	867	GLN
3	6D	877	HIS
3	6D	1053	GLN
48	6E	100	ASN
48	6E	122	ASN
48	6E	151	ASN
48	6E	196	ASN
48	6E	240	ASN
48	6E	520	GLN
48	6E	772	GLN
48	6E	871	HIS
48	6E	901	GLN
48	6E	920	GLN
48	6E	1022	GLN
48	6E	1036	GLN
48	6F	100	ASN
48	6F	122	ASN
48	6F	151	ASN
48	6F	196	ASN
48	6F	240	ASN
48	6F	497	HIS
48	6F	520	GLN
48	6F	772	GLN

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Mol	Chain	Res	Type
48	6F	871	HIS
48	6F	901	GLN
48	6F	920	GLN
48	6F	1022	GLN
48	6F	1036	GLN
49	6G	21	ASN
49	6G	88	HIS
49	6G	182	ASN
49	6G	200	HIS
49	6G	267	ASN
49	6G	270	ASN
49	6G	307	GLN
49	6G	309	ASN
49	6G	342	GLN
49	6G	358	GLN
49	6G	390	GLN
49	6H	21	ASN
49	6H	88	HIS
49	6H	182	ASN
49	6H	200	HIS
49	6H	232	HIS
49	6H	248	ASN
49	6H	267	ASN
49	6H	270	ASN
49	6H	307	GLN
49	6H	309	ASN
49	6H	342	GLN
49	6H	358	GLN
49	6H	390	GLN
49	6H	448	ASN
49	6I	88	HIS
49	6I	182	ASN
49	6I	200	HIS
49	6I	267	ASN
49	6I	270	ASN
49	6I	307	GLN
49	6I	309	ASN
49	6I	342	GLN
49	6I	358	GLN
49	6I	390	GLN
49	6J	88	HIS
49	6J	182	ASN

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Mol	Chain	Res	Type
49	6J	200	HIS
49	6J	248	ASN
49	6J	267	ASN
49	6J	270	ASN
49	6J	307	GLN
49	6J	309	ASN
49	6J	342	GLN
49	6J	358	GLN
49	6J	390	GLN
49	6J	448	ASN
50	6K	23	GLN
50	6K	24	ASN
50	6K	63	ASN
50	6K	111	ASN
50	6K	160	GLN
50	6K	178	ASN
50	6K	338	HIS
50	6K	382	GLN
50	6K	440	ASN
50	6K	511	ASN
50	6K	590	ASN
50	6K	610	ASN
50	6L	23	GLN
50	6L	24	ASN
50	6L	63	ASN
50	6L	111	ASN
50	6L	160	GLN
50	6L	178	ASN
50	6L	338	HIS
50	6L	382	GLN
50	6L	440	ASN
50	6L	511	ASN
50	6L	590	ASN
50	6L	610	ASN
51	6M	1254	GLN
51	6M	1261	HIS
51	6M	1268	ASN
51	6M	1373	HIS
51	6M	1387	GLN
51	6M	1477	GLN
51	6M	1486	HIS
51	6M	1493	GLN

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Mol	Chain	Res	Type
51	6M	1599	GLN
51	6M	1683	HIS
51	6M	1928	GLN
51	6M	1976	ASN
51	6M	1983	HIS
51	6M	2038	GLN
51	6M	2049	ASN
51	6M	2078	HIS
51	6M	2146	ASN
51	6M	2268	GLN
51	6M	2433	GLN
51	6N	1254	GLN
51	6N	1261	HIS
51	6N	1268	ASN
51	6N	1373	HIS
51	6N	1387	GLN
51	6N	1477	GLN
51	6N	1486	HIS
51	6N	1493	GLN
51	6N	1599	GLN
51	6N	1683	HIS
51	6N	1928	GLN
51	6N	1976	ASN
51	6N	1983	HIS
51	6N	2038	GLN
51	6N	2049	ASN
51	6N	2078	HIS
51	6N	2146	ASN
51	6N	2268	GLN
51	6N	2433	GLN
12	6a	6	HIS
12	6a	100	ASN
12	6a	105	HIS
12	6a	131	GLN
12	6a	195	ASN
12	6a	204	ASN
12	6a	245	GLN
12	6a	256	ASN
12	6a	298	ASN
13	6b	15	GLN
13	6b	342	GLN
12	6c	43	GLN

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Mol	Chain	Res	Type
12	6c	83	GLN
12	6c	99	ASN
12	6c	227	HIS
12	6c	247	ASN
12	6c	256	ASN
12	6c	291	GLN
12	6c	329	GLN
12	6c	347	ASN
12	6c	375	GLN
13	6d	15	GLN
13	6d	342	GLN
12	6e	6	HIS
12	6e	48	ASN
12	6e	195	ASN
12	6e	204	ASN
12	6e	245	GLN
12	6e	298	ASN
12	6e	348	ASN
12	6e	424	GLN
13	6f	15	GLN
13	6f	342	GLN
12	6g	43	GLN
12	6g	83	GLN
12	6g	227	HIS
12	6g	247	ASN
12	6g	256	ASN
12	6g	291	GLN
12	6g	332	ASN
12	6g	337	ASN
12	6g	347	ASN
12	6g	375	GLN
12	6g	384	GLN
13	6h	15	GLN
13	6h	342	GLN
12	7a	6	HIS
12	7a	14	ASN
12	7a	94	GLN
12	7a	100	ASN
12	7a	131	GLN
12	7a	195	ASN
12	7a	204	ASN
13	7b	15	GLN

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Mol	Chain	Res	Type
13	7b	228	ASN
13	7b	342	GLN
12	7c	14	ASN
12	7c	43	GLN
12	7c	83	GLN
12	7c	191	GLN
12	7c	195	ASN
12	7c	227	HIS
12	7c	247	ASN
12	7c	256	ASN
12	7c	279	GLN
12	7c	291	GLN
12	7c	307	HIS
12	7c	347	ASN
12	7c	375	GLN
13	7d	11	GLN
13	7d	15	GLN
13	7d	228	ASN
13	7d	283	HIS
13	7d	342	GLN
12	7e	6	HIS
12	7e	14	ASN
12	7e	204	ASN
12	7e	292	GLN
12	7e	298	ASN
12	7e	348	ASN
13	7f	15	GLN
13	7f	228	ASN
13	7f	342	GLN
12	7g	11	GLN
12	7g	43	GLN
12	7g	83	GLN
12	7g	94	GLN
12	7g	227	HIS
12	7g	245	GLN
12	7g	291	GLN
12	7g	337	ASN
12	7g	347	ASN
12	7g	375	GLN
12	7g	384	GLN
13	7h	15	GLN
13	7h	283	HIS

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Mol	Chain	Res	Type
13	7h	342	GLN
12	8a	99	ASN
12	8a	100	ASN
12	8a	131	GLN
12	8a	195	ASN
12	8a	204	ASN
12	8a	256	ASN
12	8a	298	ASN
12	8a	424	GLN
13	8b	15	GLN
13	8b	228	ASN
13	8b	342	GLN
12	8c	14	ASN
12	8c	43	GLN
12	8c	83	GLN
12	8c	227	HIS
12	8c	245	GLN
12	8c	256	ASN
12	8c	291	GLN
12	8c	375	GLN
12	8c	384	GLN
12	8c	426	GLN
13	8d	15	GLN
13	8d	228	ASN
13	8d	342	GLN
12	8e	131	GLN
12	8e	195	ASN
12	8e	204	ASN
12	8e	298	ASN
12	8e	348	ASN
13	8f	15	GLN
13	8f	228	ASN
13	8f	309	HIS
12	8g	11	GLN
12	8g	43	GLN
12	8g	83	GLN
12	8g	94	GLN
12	8g	99	ASN
12	8g	227	HIS
12	8g	247	ASN
12	8g	291	GLN
12	8g	337	ASN

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Mol	Chain	Res	Type
12	8g	347	ASN
12	8g	375	GLN
13	8h	15	GLN
13	8h	228	ASN
13	8h	283	HIS
13	8h	342	GLN
12	9a	99	ASN
12	9a	100	ASN
12	9a	131	GLN
12	9a	195	ASN
12	9a	204	ASN
12	9a	298	ASN
12	9a	375	GLN
12	9a	414	ASN
12	9a	416	ASN
12	9a	423	GLN
13	9b	15	GLN
13	9b	342	GLN
12	9c	43	GLN
12	9c	83	GLN
12	9c	99	ASN
12	9c	227	HIS
12	9c	245	GLN
12	9c	347	ASN
12	9c	375	GLN
13	9d	15	GLN
13	9d	342	GLN
12	9e	6	HIS
12	9e	48	ASN
12	9e	99	ASN
12	9e	131	GLN
12	9e	195	ASN
12	9e	204	ASN
12	9e	298	ASN
13	9f	15	GLN
13	9f	228	ASN
13	9f	342	GLN
12	9g	14	ASN
12	9g	43	GLN
12	9g	83	GLN
12	9g	227	HIS
12	9g	245	GLN

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Mol	Chain	Res	Type
12	9g	256	ASN
12	9g	347	ASN
12	9g	375	GLN
13	9h	15	GLN
13	9h	342	GLN
13	9h	393	HIS
12	Aa	48	ASN
12	Aa	94	GLN
12	Aa	99	ASN
12	Aa	195	ASN
12	Aa	204	ASN
12	Aa	245	GLN
12	Aa	256	ASN
12	Aa	298	ASN
12	Aa	348	ASN
13	Ab	15	GLN
13	Ab	133	GLN
13	Ab	228	ASN
13	Ab	258	ASN
13	Ab	342	GLN
12	Ac	14	ASN
12	Ac	43	GLN
12	Ac	83	GLN
12	Ac	99	ASN
12	Ac	227	HIS
12	Ac	256	ASN
12	Ac	375	GLN
12	Ac	426	GLN
13	Ad	15	GLN
13	Ad	228	ASN
13	Ad	342	GLN
12	Ae	6	HIS
12	Ae	48	ASN
12	Ae	99	ASN
12	Ae	195	ASN
12	Ae	204	ASN
12	Ae	298	ASN
12	Ae	348	ASN
13	Af	15	GLN
13	Af	128	ASN
13	Af	133	GLN
13	Af	228	ASN

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Mol	Chain	Res	Type
13	Af	342	GLN
12	Ag	14	ASN
12	Ag	43	GLN
12	Ag	83	GLN
12	Ag	99	ASN
12	Ag	227	HIS
12	Ag	291	GLN
12	Ag	347	ASN
12	Ag	375	GLN
12	Ag	426	GLN
13	Ah	15	GLN
13	Ah	192	HIS
13	Ah	228	ASN
13	Ah	342	GLN
12	Ba	94	GLN
12	Ba	99	ASN
12	Ba	100	ASN
12	Ba	131	GLN
12	Ba	195	ASN
12	Ba	204	ASN
12	Ba	245	GLN
12	Ba	298	ASN
12	Ba	348	ASN
13	Bb	15	GLN
13	Bb	133	GLN
13	Bb	228	ASN
13	Bb	258	ASN
13	Bb	283	HIS
13	Bb	285	GLN
13	Bb	342	GLN
12	Bc	14	ASN
12	Bc	43	GLN
12	Bc	83	GLN
12	Bc	94	GLN
12	Bc	99	ASN
12	Bc	227	HIS
12	Bc	247	ASN
12	Bc	347	ASN
12	Bc	375	GLN
13	Bd	15	GLN
13	Bd	228	ASN
13	Bd	342	GLN

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Mol	Chain	Res	Type
12	Be	48	ASN
12	Be	99	ASN
12	Be	100	ASN
12	Be	131	GLN
12	Be	195	ASN
12	Be	204	ASN
12	Be	256	ASN
12	Be	298	ASN
12	Be	384	GLN
12	Be	424	GLN
13	Bf	15	GLN
13	Bf	133	GLN
13	Bf	228	ASN
13	Bf	258	ASN
13	Bf	285	GLN
13	Bf	342	GLN
12	Bg	43	GLN
12	Bg	83	GLN
12	Bg	190	HIS
12	Bg	191	GLN
12	Bg	204	ASN
12	Bg	227	HIS
12	Bg	245	GLN
12	Bg	329	GLN
12	Bg	337	ASN
12	Bg	347	ASN
12	Bg	375	GLN
13	Bh	15	GLN
13	Bh	228	ASN
13	Bh	342	GLN
12	Ca	99	ASN
12	Ca	204	ASN
12	Ca	279	GLN
12	Ca	298	ASN
12	Ca	347	ASN
12	Ca	348	ASN
13	Cb	15	GLN
13	Cb	342	GLN
13	Cb	406	HIS
12	Cc	11	GLN
12	Cc	43	GLN
12	Cc	83	GLN

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Mol	Chain	Res	Type
12	Cc	105	HIS
12	Cc	227	HIS
12	Cc	245	GLN
12	Cc	247	ASN
12	Cc	291	GLN
12	Cc	347	ASN
12	Cc	375	GLN
12	Cc	384	GLN
13	Cd	15	GLN
13	Cd	342	GLN
13	Cd	406	HIS
12	Ce	6	HIS
12	Ce	94	GLN
12	Ce	99	ASN
12	Ce	131	GLN
12	Ce	204	ASN
12	Ce	245	GLN
12	Ce	279	GLN
12	Ce	298	ASN
12	Ce	348	ASN
12	Ce	384	GLN
13	Cf	15	GLN
13	Cf	133	GLN
13	Cf	226	ASN
13	Cf	342	GLN
13	Cf	406	HIS
12	Cg	43	GLN
12	Cg	83	GLN
12	Cg	105	HIS
12	Cg	245	GLN
12	Cg	291	GLN
12	Cg	329	GLN
12	Cg	347	ASN
12	Cg	375	GLN
13	Ch	15	GLN
13	Ch	342	GLN
12	Da	37	HIS
12	Da	99	ASN
12	Da	131	GLN
12	Da	191	GLN
12	Da	204	ASN
12	Da	247	ASN

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Mol	Chain	Res	Type
12	Da	298	ASN
13	Db	15	GLN
13	Db	283	HIS
13	Db	342	GLN
12	Dc	11	GLN
12	Dc	43	GLN
12	Dc	83	GLN
12	Dc	99	ASN
12	Dc	204	ASN
12	Dc	245	GLN
12	Dc	279	GLN
12	Dc	291	GLN
12	Dc	329	GLN
12	Dc	332	ASN
12	Dc	347	ASN
12	Dc	375	GLN
12	Dc	384	GLN
13	Dd	15	GLN
13	Dd	176	GLN
13	Dd	228	ASN
13	Dd	342	GLN
12	De	94	GLN
12	De	99	ASN
12	De	195	ASN
12	De	204	ASN
12	De	245	GLN
12	De	298	ASN
12	De	396	HIS
13	Df	15	GLN
13	Df	228	ASN
13	Df	309	HIS
13	Df	329	ASN
13	Df	342	GLN
12	Dg	11	GLN
12	Dg	14	ASN
12	Dg	43	GLN
12	Dg	83	GLN
12	Dg	204	ASN
12	Dg	245	GLN
12	Dg	291	GLN
12	Dg	329	GLN
12	Dg	347	ASN

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Mol	Chain	Res	Type
12	Dg	375	GLN
12	Dg	384	GLN
13	Dh	15	GLN
13	Dh	176	GLN
13	Dh	228	ASN
13	Dh	342	GLN
1	0H	33	ASN
1	0H	58	GLN
1	0H	87	GLN
1	0H	96	ASN
1	0H	161	GLN
1	0H	177	GLN
1	0H	270	HIS
1	0H	292	ASN
1	0H	345	ASN
1	0H	351	HIS
1	0J	58	GLN
1	0J	96	ASN
1	0J	203	GLN
1	0J	235	GLN
1	0J	270	HIS
1	0J	292	ASN
1	0J	345	ASN
1	0J	351	HIS
1	0J	362	GLN
1	0W	96	ASN
1	0W	203	GLN
1	0W	235	GLN
1	0W	270	HIS
1	0W	292	ASN
1	0W	308	ASN
1	0W	309	ASN
1	0W	345	ASN
1	0W	351	HIS
1	0W	370	HIS
1	0W	413	HIS
1	0I	87	GLN
1	0I	95	GLN
1	0I	281	HIS
1	0I	292	ASN
1	0I	308	ASN
1	0I	309	ASN

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Mol	Chain	Res	Type
1	0I	351	HIS
1	0K	113	HIS
1	0K	162	GLN
1	0K	203	GLN
1	0K	235	GLN
1	0K	292	ASN
1	0K	308	ASN
1	0K	309	ASN
1	0K	345	ASN
44	5P	64	ASN
44	5P	115	ASN

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

104 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
53	GDP	1a	501	-	29,30,30	1.17	2 (6%)	45,47,47	1.75	7 (15%)
54	GTP	9h	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.57	8 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
53	GDP	2g	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.75	7 (15%)
54	GTP	1f	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	Db	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	2c	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
53	GDP	Ba	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.74	7 (15%)
54	GTP	7h	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	3g	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
53	GDP	6e	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.73	7 (15%)
54	GTP	9f	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	5c	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	9a	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.73	7 (15%)
54	GTP	7e	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	Ah	501	-	33,34,34	1.00	3 (9%)	50,54,54	1.56	8 (16%)
54	GTP	8f	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	Bd	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	6a	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.73	7 (15%)
53	GDP	Dg	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.75	7 (15%)
53	GDP	Cc	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
53	GDP	8c	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.76	7 (15%)
54	GTP	2d	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	Ae	502	-	29,30,30	1.16	2 (6%)	45,47,47	1.75	7 (15%)
54	GTP	6e	501	-	33,34,34	0.99	3 (9%)	50,54,54	1.56	8 (16%)
53	GDP	1e	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.75	7 (15%)
54	GTP	9e	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	9c	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.77	7 (15%)
54	GTP	Dh	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	4e	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.74	7 (15%)
54	GTP	8d	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	2b	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	8a	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
53	GDP	8e	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.74	7 (15%)
53	GDP	9e	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.74	7 (15%)
54	GTP	8h	501	-	33,34,34	1.00	3 (9%)	50,54,54	1.56	8 (16%)
53	GDP	Be	501	-	29,30,30	1.16	2 (6%)	45,47,47	1.74	7 (15%)
53	GDP	7c	501	-	29,30,30	1.16	2 (6%)	45,47,47	1.74	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
53	GDP	Ce	501	-	29,30,30	1.16	2 (6%)	45,47,47	1.74	7 (15%)
53	GDP	3c	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
53	GDP	5a	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.74	7 (15%)
54	GTP	3d	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	Ca	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
53	GDP	4c	501	-	29,30,30	1.16	2 (6%)	45,47,47	1.74	7 (15%)
54	GTP	Af	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	Dc	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
54	GTP	4b	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	Bh	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.57	8 (16%)
54	GTP	Ab	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	5f	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	3a	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
53	GDP	5e	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.73	7 (15%)
54	GTP	3h	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	7e	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.74	7 (15%)
54	GTP	Bb	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	4f	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	6h	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.57	8 (16%)
54	GTP	Ae	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	4g	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.74	7 (15%)
53	GDP	2a	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.74	7 (15%)
53	GDP	9g	501	-	29,30,30	1.14	2 (6%)	45,47,47	1.77	7 (15%)
53	GDP	3e	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
54	GTP	Df	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	8b	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.57	8 (16%)
53	GDP	Cg	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
54	GTP	2f	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	5g	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.75	7 (15%)
53	GDP	6g	502	-	29,30,30	1.16	2 (6%)	45,47,47	1.74	7 (15%)
53	GDP	5c	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
54	GTP	4h	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	6c	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	1b	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	De	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
54	GTP	1d	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.57	8 (16%)
54	GTP	4d	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	1g	501	-	29,30,30	1.16	2 (6%)	45,47,47	1.75	7 (15%)
53	GDP	7a	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
54	GTP	5h	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	Bg	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.75	7 (15%)
54	GTP	7b	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	Cf	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	1c	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.75	7 (15%)
53	GDP	Aa	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
54	GTP	Ch	501	-	33,34,34	1.00	3 (9%)	50,54,54	1.56	8 (16%)
54	GTP	7f	501	-	33,34,34	0.98	1 (3%)	50,54,54	1.56	8 (16%)
54	GTP	6g	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	Cd	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	1h	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	Ac	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
54	GTP	9b	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	Bc	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.77	7 (15%)
54	GTP	Dd	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	7g	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
54	GTP	3c	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	Da	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
53	GDP	6c	502	-	29,30,30	1.15	2 (6%)	45,47,47	1.75	7 (15%)
53	GDP	Ag	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.74	7 (15%)
54	GTP	Bf	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	8g	501	-	29,30,30	1.15	2 (6%)	45,47,47	1.74	7 (15%)
53	GDP	2e	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
54	GTP	2h	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	5d	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	Cc	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
54	GTP	3f	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
53	GDP	4a	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.73	7 (15%)

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
53	GDP	1a	501	-	-	3/16/32/32	0/3/3/3
54	GTP	9h	501	-	-	2/22/38/38	0/3/3/3
53	GDP	2g	501	-	-	3/16/32/32	0/3/3/3
54	GTP	1f	501	-	-	2/22/38/38	0/3/3/3
54	GTP	Db	501	-	-	2/22/38/38	0/3/3/3
53	GDP	2c	501	-	-	3/16/32/32	0/3/3/3
53	GDP	Ba	501	-	-	3/16/32/32	0/3/3/3
54	GTP	7h	501	-	-	2/22/38/38	0/3/3/3
53	GDP	3g	501	-	-	3/16/32/32	0/3/3/3
53	GDP	6e	502	-	-	3/16/32/32	0/3/3/3
54	GTP	9f	501	-	-	2/22/38/38	0/3/3/3
54	GTP	5c	501	-	-	2/22/38/38	0/3/3/3
53	GDP	9a	501	-	-	3/16/32/32	0/3/3/3
54	GTP	7e	501	-	-	2/22/38/38	0/3/3/3
54	GTP	Ah	501	-	-	2/22/38/38	0/3/3/3
54	GTP	8f	501	-	-	2/22/38/38	0/3/3/3
54	GTP	Bd	501	-	-	2/22/38/38	0/3/3/3
53	GDP	6a	501	-	-	3/16/32/32	0/3/3/3
53	GDP	Dg	501	-	-	3/16/32/32	0/3/3/3
53	GDP	Cc	502	-	-	3/16/32/32	0/3/3/3
53	GDP	8c	501	-	-	3/16/32/32	0/3/3/3
54	GTP	2d	501	-	-	2/22/38/38	0/3/3/3
53	GDP	Ae	502	-	-	3/16/32/32	0/3/3/3
54	GTP	6e	501	-	-	2/22/38/38	0/3/3/3
53	GDP	1e	501	-	-	3/16/32/32	0/3/3/3
54	GTP	9e	501	-	-	2/22/38/38	0/3/3/3
53	GDP	9c	501	-	-	3/16/32/32	0/3/3/3
54	GTP	Dh	501	-	-	2/22/38/38	0/3/3/3
53	GDP	4e	501	-	-	3/16/32/32	0/3/3/3
54	GTP	8d	501	-	-	2/22/38/38	0/3/3/3
54	GTP	2b	501	-	-	2/22/38/38	0/3/3/3
53	GDP	8a	501	-	-	3/16/32/32	0/3/3/3
53	GDP	8e	501	-	-	3/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
53	GDP	9e	502	-	-	3/16/32/32	0/3/3/3
54	GTP	8h	501	-	-	2/22/38/38	0/3/3/3
53	GDP	Be	501	-	-	3/16/32/32	0/3/3/3
53	GDP	7c	501	-	-	3/16/32/32	0/3/3/3
53	GDP	Ce	501	-	-	3/16/32/32	0/3/3/3
53	GDP	3c	502	-	-	3/16/32/32	0/3/3/3
53	GDP	5a	501	-	-	3/16/32/32	0/3/3/3
54	GTP	3d	501	-	-	2/22/38/38	0/3/3/3
53	GDP	Ca	501	-	-	3/16/32/32	0/3/3/3
53	GDP	4c	501	-	-	3/16/32/32	0/3/3/3
54	GTP	Af	501	-	-	2/22/38/38	0/3/3/3
53	GDP	Dc	501	-	-	3/16/32/32	0/3/3/3
54	GTP	4b	501	-	-	2/22/38/38	0/3/3/3
54	GTP	Bh	501	-	-	2/22/38/38	0/3/3/3
54	GTP	Ab	501	-	-	2/22/38/38	0/3/3/3
54	GTP	5f	501	-	-	2/22/38/38	0/3/3/3
53	GDP	3a	501	-	-	3/16/32/32	0/3/3/3
53	GDP	5e	501	-	-	3/16/32/32	0/3/3/3
54	GTP	3h	501	-	-	2/22/38/38	0/3/3/3
53	GDP	7e	502	-	-	3/16/32/32	0/3/3/3
54	GTP	Bb	501	-	-	2/22/38/38	0/3/3/3
54	GTP	4f	501	-	-	2/22/38/38	0/3/3/3
54	GTP	6h	501	-	-	2/22/38/38	0/3/3/3
54	GTP	Ae	501	-	-	2/22/38/38	0/3/3/3
53	GDP	4g	501	-	-	3/16/32/32	0/3/3/3
53	GDP	2a	501	-	-	3/16/32/32	0/3/3/3
53	GDP	9g	501	-	-	3/16/32/32	0/3/3/3
53	GDP	3e	501	-	-	3/16/32/32	0/3/3/3
54	GTP	Df	501	-	-	2/22/38/38	0/3/3/3
54	GTP	8b	501	-	-	2/22/38/38	0/3/3/3
53	GDP	Cg	501	-	-	3/16/32/32	0/3/3/3
54	GTP	2f	501	-	-	2/22/38/38	0/3/3/3
53	GDP	5g	501	-	-	3/16/32/32	0/3/3/3
53	GDP	6g	502	-	-	3/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
53	GDP	5c	502	-	-	3/16/32/32	0/3/3/3
54	GTP	4h	501	-	-	2/22/38/38	0/3/3/3
54	GTP	6c	501	-	-	2/22/38/38	0/3/3/3
54	GTP	1b	501	-	-	2/22/38/38	0/3/3/3
53	GDP	De	501	-	-	3/16/32/32	0/3/3/3
54	GTP	1d	501	-	-	2/22/38/38	0/3/3/3
54	GTP	4d	501	-	-	2/22/38/38	0/3/3/3
53	GDP	1g	501	-	-	3/16/32/32	0/3/3/3
53	GDP	7a	501	-	-	3/16/32/32	0/3/3/3
54	GTP	5h	501	-	-	2/22/38/38	0/3/3/3
53	GDP	Bg	501	-	-	3/16/32/32	0/3/3/3
54	GTP	7b	501	-	-	2/22/38/38	0/3/3/3
54	GTP	Cf	501	-	-	2/22/38/38	0/3/3/3
53	GDP	1c	501	-	-	3/16/32/32	0/3/3/3
53	GDP	Aa	501	-	-	3/16/32/32	0/3/3/3
54	GTP	Ch	501	-	-	2/22/38/38	0/3/3/3
54	GTP	7f	501	-	-	2/22/38/38	0/3/3/3
54	GTP	6g	501	-	-	2/22/38/38	0/3/3/3
54	GTP	Cd	501	-	-	2/22/38/38	0/3/3/3
54	GTP	1h	501	-	-	2/22/38/38	0/3/3/3
53	GDP	Ac	501	-	-	3/16/32/32	0/3/3/3
54	GTP	9b	501	-	-	2/22/38/38	0/3/3/3
53	GDP	Bc	501	-	-	3/16/32/32	0/3/3/3
54	GTP	Dd	501	-	-	2/22/38/38	0/3/3/3
53	GDP	7g	501	-	-	3/16/32/32	0/3/3/3
54	GTP	3c	501	-	-	2/22/38/38	0/3/3/3
53	GDP	Da	501	-	-	3/16/32/32	0/3/3/3
53	GDP	6c	502	-	-	3/16/32/32	0/3/3/3
53	GDP	Ag	501	-	-	3/16/32/32	0/3/3/3
54	GTP	Bf	501	-	-	2/22/38/38	0/3/3/3
53	GDP	8g	501	-	-	3/16/32/32	0/3/3/3
53	GDP	2e	501	-	-	3/16/32/32	0/3/3/3
54	GTP	2h	501	-	-	2/22/38/38	0/3/3/3
54	GTP	5d	501	-	-	2/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
54	GTP	Cc	501	-	-	2/22/38/38	0/3/3/3
54	GTP	3f	501	-	-	2/22/38/38	0/3/3/3
53	GDP	4a	501	-	-	3/16/32/32	0/3/3/3

All (241) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
53	8a	501	GDP	C5-C4	3.20	1.47	1.38
53	4e	501	GDP	C5-C4	3.17	1.47	1.38
53	2e	501	GDP	C5-C4	3.16	1.47	1.38
53	5e	501	GDP	C5-C4	3.16	1.47	1.38
53	3a	501	GDP	C5-C4	3.16	1.47	1.38
53	6c	502	GDP	C5-C4	3.16	1.47	1.38
53	9a	501	GDP	C5-C4	3.16	1.47	1.38
53	3e	501	GDP	C5-C4	3.16	1.47	1.38
53	7c	501	GDP	C5-C4	3.16	1.47	1.38
53	6e	502	GDP	C5-C4	3.16	1.47	1.38
53	Aa	501	GDP	C5-C4	3.16	1.47	1.38
53	9e	502	GDP	C5-C4	3.16	1.47	1.38
53	De	501	GDP	C5-C4	3.16	1.47	1.38
53	5c	502	GDP	C5-C4	3.16	1.47	1.38
53	3g	501	GDP	C5-C4	3.16	1.47	1.38
53	6a	501	GDP	C5-C4	3.16	1.47	1.38
53	Ac	501	GDP	C5-C4	3.16	1.47	1.38
53	7e	502	GDP	C5-C4	3.15	1.47	1.38
53	4a	501	GDP	C5-C4	3.15	1.47	1.38
53	5a	501	GDP	C5-C4	3.15	1.47	1.38
53	Ba	501	GDP	C5-C4	3.15	1.47	1.38
53	Dg	501	GDP	C5-C4	3.15	1.47	1.38
53	7g	501	GDP	C5-C4	3.15	1.47	1.38
53	4c	501	GDP	C5-C4	3.15	1.47	1.38
53	1g	501	GDP	C5-C4	3.15	1.47	1.38
53	Dc	501	GDP	C5-C4	3.15	1.47	1.38
53	2a	501	GDP	C5-C4	3.14	1.47	1.38
53	8c	501	GDP	C5-C4	3.14	1.47	1.38
53	8e	501	GDP	C5-C4	3.14	1.47	1.38
53	Cc	502	GDP	C5-C4	3.14	1.47	1.38
53	7a	501	GDP	C5-C4	3.14	1.47	1.38
53	1a	501	GDP	C5-C4	3.14	1.47	1.38
53	5g	501	GDP	C5-C4	3.14	1.47	1.38
53	1e	501	GDP	C5-C4	3.14	1.47	1.38
53	1c	501	GDP	C5-C4	3.14	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
53	4g	501	GDP	C5-C4	3.13	1.47	1.38
53	Ae	502	GDP	C5-C4	3.13	1.47	1.38
53	Ca	501	GDP	C5-C4	3.12	1.47	1.38
53	2c	501	GDP	C5-C4	3.12	1.47	1.38
53	Bg	501	GDP	C5-C4	3.12	1.47	1.38
53	3c	502	GDP	C5-C4	3.12	1.47	1.38
53	8g	501	GDP	C5-C4	3.12	1.47	1.38
53	Cg	501	GDP	C5-C4	3.12	1.47	1.38
53	6g	502	GDP	C5-C4	3.12	1.47	1.38
53	Ag	501	GDP	C5-C4	3.12	1.47	1.38
53	Da	501	GDP	C5-C4	3.12	1.47	1.38
53	2g	501	GDP	C5-C4	3.11	1.47	1.38
53	9c	501	GDP	C5-C4	3.11	1.47	1.38
53	Ce	501	GDP	C5-C4	3.10	1.47	1.38
53	9g	501	GDP	C5-C4	3.10	1.47	1.38
53	Be	501	GDP	C5-C4	3.09	1.47	1.38
53	Bc	501	GDP	C5-C4	3.09	1.47	1.38
53	4a	501	GDP	C6-N1	-2.46	1.34	1.38
53	1a	501	GDP	C6-N1	-2.45	1.34	1.38
53	Ba	501	GDP	C6-N1	-2.44	1.34	1.38
53	5a	501	GDP	C6-N1	-2.44	1.34	1.38
53	2a	501	GDP	C6-N1	-2.44	1.34	1.38
53	7a	501	GDP	C6-N1	-2.44	1.34	1.38
53	9a	501	GDP	C6-N1	-2.44	1.34	1.38
53	9e	502	GDP	C6-N1	-2.44	1.34	1.38
53	8a	501	GDP	C6-N1	-2.43	1.34	1.38
53	Ca	501	GDP	C6-N1	-2.43	1.34	1.38
53	Be	501	GDP	C6-N1	-2.43	1.34	1.38
53	3e	501	GDP	C6-N1	-2.42	1.34	1.38
53	De	501	GDP	C6-N1	-2.42	1.34	1.38
53	2e	501	GDP	C6-N1	-2.41	1.34	1.38
53	3a	501	GDP	C6-N1	-2.41	1.34	1.38
53	7e	502	GDP	C6-N1	-2.41	1.34	1.38
53	6e	502	GDP	C6-N1	-2.41	1.34	1.38
53	8e	501	GDP	C6-N1	-2.41	1.34	1.38
53	Aa	501	GDP	C6-N1	-2.41	1.34	1.38
53	7g	501	GDP	C6-N1	-2.41	1.34	1.38
53	Ae	502	GDP	C6-N1	-2.40	1.34	1.38
53	1g	501	GDP	C6-N1	-2.40	1.34	1.38
53	4e	501	GDP	C6-N1	-2.40	1.34	1.38
53	Dc	501	GDP	C6-N1	-2.40	1.34	1.38
53	5e	501	GDP	C6-N1	-2.40	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
53	Da	501	GDP	C6-N1	-2.39	1.34	1.38
53	5c	502	GDP	C6-N1	-2.39	1.34	1.38
53	6a	501	GDP	C6-N1	-2.39	1.34	1.38
53	7c	501	GDP	C6-N1	-2.39	1.34	1.38
53	5g	501	GDP	C6-N1	-2.39	1.34	1.38
53	6g	502	GDP	C6-N1	-2.39	1.34	1.38
53	1e	501	GDP	C6-N1	-2.38	1.34	1.38
53	Cg	501	GDP	C6-N1	-2.38	1.34	1.38
53	Ce	501	GDP	C6-N1	-2.38	1.34	1.38
53	3c	502	GDP	C6-N1	-2.38	1.34	1.38
53	2g	501	GDP	C6-N1	-2.37	1.34	1.38
53	2c	501	GDP	C6-N1	-2.37	1.34	1.38
53	8g	501	GDP	C6-N1	-2.37	1.34	1.38
53	6c	502	GDP	C6-N1	-2.37	1.34	1.38
53	1c	501	GDP	C6-N1	-2.37	1.34	1.38
53	8c	501	GDP	C6-N1	-2.36	1.34	1.38
53	4c	501	GDP	C6-N1	-2.36	1.34	1.38
53	3g	501	GDP	C6-N1	-2.36	1.34	1.38
53	Ag	501	GDP	C6-N1	-2.35	1.34	1.38
53	4g	501	GDP	C6-N1	-2.35	1.34	1.38
53	Dg	501	GDP	C6-N1	-2.35	1.34	1.38
53	9g	501	GDP	C6-N1	-2.34	1.34	1.38
53	Ac	501	GDP	C6-N1	-2.34	1.34	1.38
53	Bg	501	GDP	C6-N1	-2.33	1.34	1.38
53	Cc	502	GDP	C6-N1	-2.33	1.34	1.38
53	Bc	501	GDP	C6-N1	-2.33	1.34	1.38
53	9c	501	GDP	C6-N1	-2.31	1.34	1.38
54	9e	501	GTP	C2-N3	2.28	1.38	1.33
54	Cf	501	GTP	C2-N3	2.28	1.38	1.33
54	1b	501	GTP	C2-N3	2.28	1.38	1.33
54	5d	501	GTP	C2-N3	2.28	1.38	1.33
54	7e	501	GTP	C2-N3	2.28	1.38	1.33
54	4b	501	GTP	C2-N3	2.28	1.38	1.33
54	Bb	501	GTP	C2-N3	2.28	1.38	1.33
54	Df	501	GTP	C2-N3	2.27	1.38	1.33
54	7b	501	GTP	C2-N3	2.27	1.38	1.33
54	9b	501	GTP	C2-N3	2.27	1.38	1.33
54	4f	501	GTP	C2-N3	2.27	1.38	1.33
54	2f	501	GTP	C2-N3	2.27	1.38	1.33
54	4h	501	GTP	C2-N3	2.27	1.38	1.33
54	7h	501	GTP	C2-N3	2.27	1.38	1.33
54	3c	501	GTP	C2-N3	2.27	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	6c	501	GTP	C2-N3	2.26	1.38	1.33
54	3h	501	GTP	C2-N3	2.26	1.38	1.33
54	Ah	501	GTP	C2-N3	2.26	1.38	1.33
54	Dh	501	GTP	C2-N3	2.26	1.38	1.33
54	Bf	501	GTP	C2-N3	2.26	1.38	1.33
54	8h	501	GTP	C2-N3	2.26	1.38	1.33
54	5c	501	GTP	C2-N3	2.26	1.38	1.33
54	3f	501	GTP	C2-N3	2.26	1.38	1.33
54	5h	501	GTP	C2-N3	2.26	1.38	1.33
54	1f	501	GTP	C2-N3	2.26	1.38	1.33
54	Dd	501	GTP	C2-N3	2.26	1.38	1.33
54	Cc	501	GTP	C2-N3	2.26	1.38	1.33
54	Cd	501	GTP	C2-N3	2.26	1.38	1.33
54	6g	501	GTP	C2-N3	2.25	1.38	1.33
54	Db	501	GTP	C2-N3	2.25	1.38	1.33
54	Af	501	GTP	C2-N3	2.25	1.38	1.33
54	6e	501	GTP	C2-N3	2.25	1.38	1.33
54	2h	501	GTP	C2-N3	2.24	1.38	1.33
54	Ch	501	GTP	C2-N3	2.24	1.38	1.33
54	Bh	501	GTP	C2-N3	2.24	1.38	1.33
54	9f	501	GTP	C2-N3	2.24	1.38	1.33
54	8d	501	GTP	C2-N3	2.24	1.38	1.33
54	2b	501	GTP	C2-N3	2.24	1.38	1.33
54	3d	501	GTP	C2-N3	2.24	1.38	1.33
54	Bd	501	GTP	C2-N3	2.24	1.38	1.33
54	2d	501	GTP	C2-N3	2.24	1.38	1.33
54	4d	501	GTP	C2-N3	2.24	1.38	1.33
54	5f	501	GTP	C2-N3	2.24	1.38	1.33
54	8b	501	GTP	C2-N3	2.23	1.38	1.33
54	7f	501	GTP	C2-N3	2.23	1.38	1.33
54	1h	501	GTP	C2-N3	2.23	1.38	1.33
54	Ab	501	GTP	C2-N3	2.23	1.38	1.33
54	6h	501	GTP	C2-N3	2.23	1.38	1.33
54	9h	501	GTP	C2-N3	2.23	1.38	1.33
54	Ae	501	GTP	C2-N3	2.22	1.38	1.33
54	8f	501	GTP	C2-N3	2.22	1.38	1.33
54	1d	501	GTP	C2-N3	2.22	1.38	1.33
54	2b	501	GTP	PA-O3A	2.18	1.61	1.59
54	6e	501	GTP	PA-O3A	2.16	1.61	1.59
54	1b	501	GTP	PA-O3A	2.14	1.61	1.59
54	7b	501	GTP	PA-O3A	2.14	1.61	1.59
54	Ch	501	GTP	PA-O3A	2.13	1.61	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1h	501	GTP	PA-O3A	2.13	1.61	1.59
54	3c	501	GTP	PA-O3A	2.13	1.61	1.59
54	Df	501	GTP	PA-O3A	2.13	1.61	1.59
54	Dd	501	GTP	PA-O3A	2.13	1.61	1.59
54	2d	501	GTP	PA-O3A	2.12	1.61	1.59
54	7e	501	GTP	PA-O3A	2.12	1.61	1.59
54	4d	501	GTP	PA-O3A	2.11	1.61	1.59
54	Bf	501	GTP	PA-O3A	2.11	1.61	1.59
54	5d	501	GTP	PA-O3A	2.11	1.61	1.59
54	Bh	501	GTP	PA-O3A	2.11	1.61	1.59
54	3d	501	GTP	PA-O3A	2.11	1.61	1.59
54	8f	501	GTP	PA-O3A	2.11	1.61	1.59
54	9h	501	GTP	PA-O3A	2.11	1.61	1.59
54	Db	501	GTP	PA-O3A	2.11	1.61	1.59
54	3f	501	GTP	PA-O3A	2.11	1.61	1.59
54	8h	501	GTP	PA-O3A	2.10	1.61	1.59
54	4b	501	GTP	PA-O3A	2.10	1.61	1.59
54	Ah	501	GTP	PA-O3A	2.10	1.61	1.59
54	4f	501	GTP	PA-O3A	2.10	1.61	1.59
54	5h	501	GTP	PA-O3A	2.10	1.61	1.59
54	1d	501	GTP	PA-O3A	2.10	1.61	1.59
54	5f	501	GTP	PA-O3A	2.10	1.61	1.59
54	Dh	501	GTP	PA-O3A	2.10	1.61	1.59
54	Cd	501	GTP	PA-O3A	2.09	1.61	1.59
54	7h	501	GTP	PA-O3A	2.09	1.61	1.59
54	1f	501	GTP	PA-O3A	2.09	1.61	1.59
54	9e	501	GTP	PA-O3A	2.09	1.61	1.59
54	6c	501	GTP	PA-O3A	2.09	1.61	1.59
54	9f	501	GTP	PA-O3A	2.09	1.61	1.59
54	6g	501	GTP	PA-O3A	2.08	1.61	1.59
54	3h	501	GTP	PA-O3A	2.08	1.61	1.59
54	9b	501	GTP	PA-O3A	2.08	1.61	1.59
54	Cc	501	GTP	PA-O3A	2.08	1.61	1.59
53	5a	501	GDP	C5-N7	-2.08	1.34	1.39
54	8b	501	GTP	PA-O3A	2.08	1.61	1.59
53	6e	502	GDP	C5-N7	-2.07	1.34	1.39
53	6a	501	GDP	C5-N7	-2.07	1.34	1.39
54	6h	501	GTP	PA-O3A	2.07	1.61	1.59
53	3e	501	GDP	C5-N7	-2.07	1.34	1.39
54	2f	501	GTP	PA-O3A	2.07	1.61	1.59
54	Bb	501	GTP	PA-O3A	2.06	1.61	1.59
54	8d	501	GTP	PA-O3A	2.06	1.61	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
53	4e	501	GDP	C5-N7	-2.06	1.34	1.39
53	3a	501	GDP	C5-N7	-2.05	1.35	1.39
53	4a	501	GDP	C5-N7	-2.05	1.35	1.39
53	Ba	501	GDP	C5-N7	-2.05	1.35	1.39
54	Af	501	GTP	PA-O3A	2.05	1.61	1.59
54	2h	501	GTP	PA-O3A	2.05	1.61	1.59
53	Aa	501	GDP	C5-N7	-2.04	1.35	1.39
54	Ae	501	GTP	PA-O3A	2.04	1.61	1.59
53	Ca	501	GDP	C5-N7	-2.04	1.35	1.39
53	7e	502	GDP	C5-N7	-2.04	1.35	1.39
54	Ch	501	GTP	PB-O3B	2.04	1.61	1.59
53	Cg	501	GDP	C5-N7	-2.03	1.35	1.39
54	Cf	501	GTP	PA-O3A	2.03	1.61	1.59
53	5c	502	GDP	C5-N7	-2.03	1.35	1.39
54	5c	501	GTP	PA-O3A	2.03	1.61	1.59
53	Ac	501	GDP	C5-N7	-2.03	1.35	1.39
53	Da	501	GDP	C5-N7	-2.03	1.35	1.39
53	2a	501	GDP	C5-N7	-2.03	1.35	1.39
54	Bd	501	GTP	PA-O3A	2.02	1.61	1.59
53	9a	501	GDP	C5-N7	-2.02	1.35	1.39
53	3g	501	GDP	C5-N7	-2.02	1.35	1.39
53	2c	501	GDP	C5-N7	-2.02	1.35	1.39
53	7g	501	GDP	C5-N7	-2.02	1.35	1.39
53	2e	501	GDP	C5-N7	-2.02	1.35	1.39
54	Ab	501	GTP	PA-O3A	2.02	1.61	1.59
53	De	501	GDP	C5-N7	-2.02	1.35	1.39
53	8e	501	GDP	C5-N7	-2.02	1.35	1.39
54	4h	501	GTP	PA-O3A	2.02	1.61	1.59
53	7a	501	GDP	C5-N7	-2.02	1.35	1.39
53	Dc	501	GDP	C5-N7	-2.02	1.35	1.39
53	9e	502	GDP	C5-N7	-2.01	1.35	1.39
53	3c	502	GDP	C5-N7	-2.01	1.35	1.39
53	Cc	502	GDP	C5-N7	-2.01	1.35	1.39
53	5e	501	GDP	C5-N7	-2.01	1.35	1.39
54	8h	501	GTP	PB-O3B	2.01	1.61	1.59
53	8a	501	GDP	C5-N7	-2.01	1.35	1.39
54	Ah	501	GTP	PB-O3A	2.00	1.61	1.59
54	6e	501	GTP	PB-O3B	2.00	1.61	1.59

All (780) bond angle outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	7e	502	GDP	C5-C4-N3	-6.20	118.53	128.39
53	6e	502	GDP	C5-C4-N3	-6.18	118.55	128.39
53	3e	501	GDP	C5-C4-N3	-6.18	118.56	128.39
53	4a	501	GDP	C5-C4-N3	-6.17	118.57	128.39
53	4e	501	GDP	C5-C4-N3	-6.16	118.59	128.39
53	7a	501	GDP	C5-C4-N3	-6.16	118.59	128.39
53	8a	501	GDP	C5-C4-N3	-6.16	118.59	128.39
53	5e	501	GDP	C5-C4-N3	-6.16	118.59	128.39
53	8e	501	GDP	C5-C4-N3	-6.15	118.60	128.39
53	9c	501	GDP	C5-C4-N3	-6.15	118.61	128.39
53	9e	502	GDP	C5-C4-N3	-6.14	118.61	128.39
53	2a	501	GDP	C5-C4-N3	-6.14	118.62	128.39
53	3a	501	GDP	C5-C4-N3	-6.13	118.64	128.39
53	Ca	501	GDP	C5-C4-N3	-6.12	118.66	128.39
53	9g	501	GDP	C5-C4-N3	-6.12	118.66	128.39
53	9a	501	GDP	C5-C4-N3	-6.11	118.66	128.39
53	5a	501	GDP	C5-C4-N3	-6.11	118.66	128.39
53	Aa	501	GDP	C5-C4-N3	-6.11	118.67	128.39
53	Bc	501	GDP	C5-C4-N3	-6.11	118.67	128.39
53	Ae	502	GDP	C5-C4-N3	-6.10	118.68	128.39
53	2e	501	GDP	C5-C4-N3	-6.10	118.68	128.39
53	6a	501	GDP	C5-C4-N3	-6.10	118.68	128.39
53	6c	502	GDP	C5-C4-N3	-6.08	118.71	128.39
53	1a	501	GDP	C5-C4-N3	-6.07	118.73	128.39
53	1g	501	GDP	C5-C4-N3	-6.06	118.74	128.39
53	Cc	502	GDP	C5-C4-N3	-6.06	118.75	128.39
53	4c	501	GDP	C5-C4-N3	-6.06	118.75	128.39
53	Ba	501	GDP	C5-C4-N3	-6.05	118.76	128.39
53	5g	501	GDP	C5-C4-N3	-6.04	118.77	128.39
53	8g	501	GDP	C5-C4-N3	-6.04	118.77	128.39
53	7g	501	GDP	C5-C4-N3	-6.04	118.78	128.39
53	Ac	501	GDP	C5-C4-N3	-6.04	118.78	128.39
53	4g	501	GDP	C5-C4-N3	-6.04	118.78	128.39
53	5c	502	GDP	C5-C4-N3	-6.04	118.78	128.39
53	Be	501	GDP	C5-C4-N3	-6.04	118.78	128.39
53	De	501	GDP	C5-C4-N3	-6.03	118.79	128.39
53	Ag	501	GDP	C5-C4-N3	-6.03	118.79	128.39
53	Dg	501	GDP	C5-C4-N3	-6.03	118.79	128.39
53	Ce	501	GDP	C5-C4-N3	-6.03	118.79	128.39
53	2g	501	GDP	C5-C4-N3	-6.03	118.80	128.39
53	1c	501	GDP	C5-C4-N3	-6.03	118.80	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	7c	501	GDP	C5-C4-N3	-6.03	118.80	128.39
53	3g	501	GDP	C5-C4-N3	-6.02	118.81	128.39
53	Dc	501	GDP	C5-C4-N3	-6.02	118.82	128.39
53	1e	501	GDP	C5-C4-N3	-6.02	118.82	128.39
53	6g	502	GDP	C5-C4-N3	-6.00	118.83	128.39
53	Da	501	GDP	C5-C4-N3	-6.00	118.83	128.39
53	3c	502	GDP	C5-C4-N3	-5.99	118.86	128.39
53	Cg	501	GDP	C5-C4-N3	-5.99	118.86	128.39
53	8c	501	GDP	C5-C4-N3	-5.98	118.87	128.39
53	Bg	501	GDP	C5-C4-N3	-5.98	118.88	128.39
53	2c	501	GDP	C5-C4-N3	-5.95	118.91	128.39
53	9g	501	GDP	C2-N3-C4	5.23	121.30	112.30
53	9c	501	GDP	C2-N3-C4	5.19	121.24	112.30
53	Bc	501	GDP	C2-N3-C4	5.17	121.20	112.30
54	Bh	501	GTP	C5-C4-N3	-5.09	120.29	128.39
54	9h	501	GTP	C5-C4-N3	-5.07	120.32	128.39
53	Cc	502	GDP	C2-N3-C4	5.07	121.03	112.30
54	6h	501	GTP	C5-C4-N3	-5.07	120.33	128.39
54	7b	501	GTP	C5-C4-N3	-5.06	120.33	128.39
53	6c	502	GDP	C2-N3-C4	5.06	121.02	112.30
54	6c	501	GTP	C5-C4-N3	-5.06	120.33	128.39
54	1h	501	GTP	C5-C4-N3	-5.06	120.34	128.39
54	8b	501	GTP	C5-C4-N3	-5.06	120.34	128.39
54	7h	501	GTP	C5-C4-N3	-5.06	120.34	128.39
53	7a	501	GDP	C2-N3-C4	5.06	121.01	112.30
54	9f	501	GTP	C5-C4-N3	-5.06	120.34	128.39
54	Ch	501	GTP	C5-C4-N3	-5.06	120.34	128.39
54	6e	501	GTP	C5-C4-N3	-5.06	120.34	128.39
54	Ab	501	GTP	C5-C4-N3	-5.06	120.34	128.39
54	Af	501	GTP	C5-C4-N3	-5.06	120.34	128.39
53	4g	501	GDP	C2-N3-C4	5.06	121.01	112.30
54	1d	501	GTP	C5-C4-N3	-5.05	120.34	128.39
53	8a	501	GDP	C2-N3-C4	5.05	121.00	112.30
54	Dh	501	GTP	C5-C4-N3	-5.05	120.35	128.39
54	Ah	501	GTP	C5-C4-N3	-5.05	120.36	128.39
53	1a	501	GDP	C2-N3-C4	5.05	120.99	112.30
54	9e	501	GTP	C5-C4-N3	-5.05	120.36	128.39
54	3f	501	GTP	C5-C4-N3	-5.05	120.36	128.39
54	Bb	501	GTP	C5-C4-N3	-5.05	120.36	128.39
54	Cc	501	GTP	C5-C4-N3	-5.05	120.36	128.39
53	5c	502	GDP	C2-N3-C4	5.05	120.99	112.30
54	8d	501	GTP	C5-C4-N3	-5.05	120.36	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	Bf	501	GTP	C5-C4-N3	-5.05	120.36	128.39
53	1e	501	GDP	C2-N3-C4	5.04	120.99	112.30
53	7e	502	GDP	C2-N3-C4	5.04	120.99	112.30
54	Ae	501	GTP	C5-C4-N3	-5.04	120.36	128.39
54	Bd	501	GTP	C5-C4-N3	-5.04	120.36	128.39
53	2a	501	GDP	C2-N3-C4	5.04	120.99	112.30
53	7g	501	GDP	C2-N3-C4	5.04	120.99	112.30
54	3c	501	GTP	C5-C4-N3	-5.04	120.36	128.39
53	5a	501	GDP	C2-N3-C4	5.04	120.98	112.30
53	5g	501	GDP	C2-N3-C4	5.04	120.98	112.30
53	4a	501	GDP	C2-N3-C4	5.04	120.98	112.30
54	7f	501	GTP	C5-C4-N3	-5.04	120.37	128.39
54	4d	501	GTP	C5-C4-N3	-5.04	120.37	128.39
54	9b	501	GTP	C5-C4-N3	-5.04	120.37	128.39
54	2b	501	GTP	C5-C4-N3	-5.04	120.37	128.39
54	Dd	501	GTP	C5-C4-N3	-5.04	120.37	128.39
54	1b	501	GTP	C5-C4-N3	-5.04	120.38	128.39
54	Cd	501	GTP	C5-C4-N3	-5.04	120.38	128.39
53	3a	501	GDP	C2-N3-C4	5.04	120.97	112.30
54	2f	501	GTP	C5-C4-N3	-5.03	120.38	128.39
53	Ac	501	GDP	C2-N3-C4	5.03	120.97	112.30
54	2d	501	GTP	C5-C4-N3	-5.03	120.38	128.39
53	Be	501	GDP	C2-N3-C4	5.03	120.97	112.30
54	4f	501	GTP	C5-C4-N3	-5.03	120.38	128.39
54	7e	501	GTP	C5-C4-N3	-5.03	120.38	128.39
54	8f	501	GTP	C5-C4-N3	-5.03	120.38	128.39
53	Ce	501	GDP	C2-N3-C4	5.03	120.97	112.30
53	8e	501	GDP	C2-N3-C4	5.03	120.97	112.30
53	8g	501	GDP	C2-N3-C4	5.03	120.97	112.30
53	Dc	501	GDP	C2-N3-C4	5.03	120.97	112.30
54	2h	501	GTP	C5-C4-N3	-5.03	120.38	128.39
54	5d	501	GTP	C5-C4-N3	-5.03	120.38	128.39
53	5e	501	GDP	C2-N3-C4	5.03	120.96	112.30
54	5h	501	GTP	C5-C4-N3	-5.03	120.38	128.39
54	Db	501	GTP	C5-C4-N3	-5.03	120.38	128.39
54	3h	501	GTP	C5-C4-N3	-5.03	120.39	128.39
54	4h	501	GTP	C5-C4-N3	-5.03	120.39	128.39
54	3d	501	GTP	C5-C4-N3	-5.03	120.39	128.39
53	1c	501	GDP	C2-N3-C4	5.03	120.96	112.30
53	3c	502	GDP	C2-N3-C4	5.03	120.96	112.30
54	5f	501	GTP	C5-C4-N3	-5.03	120.39	128.39
53	Ae	502	GDP	C2-N3-C4	5.03	120.96	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	2e	501	GDP	C2-N3-C4	5.03	120.96	112.30
54	Cf	501	GTP	C5-C4-N3	-5.02	120.39	128.39
54	4b	501	GTP	C5-C4-N3	-5.02	120.40	128.39
53	Ca	501	GDP	C2-N3-C4	5.02	120.95	112.30
53	Cg	501	GDP	C2-N3-C4	5.02	120.95	112.30
53	9e	502	GDP	C2-N3-C4	5.02	120.95	112.30
54	1f	501	GTP	C5-C4-N3	-5.02	120.40	128.39
54	8h	501	GTP	C5-C4-N3	-5.02	120.40	128.39
54	Df	501	GTP	C5-C4-N3	-5.02	120.40	128.39
53	4e	501	GDP	C2-N3-C4	5.02	120.94	112.30
53	3e	501	GDP	C2-N3-C4	5.02	120.94	112.30
53	7c	501	GDP	C2-N3-C4	5.02	120.94	112.30
53	6g	502	GDP	C2-N3-C4	5.01	120.94	112.30
53	Dg	501	GDP	C2-N3-C4	5.01	120.93	112.30
53	3g	501	GDP	C2-N3-C4	5.01	120.93	112.30
53	6a	501	GDP	C2-N3-C4	5.01	120.93	112.30
53	6e	502	GDP	C2-N3-C4	5.01	120.93	112.30
53	Aa	501	GDP	C2-N3-C4	5.01	120.93	112.30
53	8c	501	GDP	C2-N3-C4	5.01	120.93	112.30
53	Ag	501	GDP	C2-N3-C4	5.01	120.93	112.30
53	De	501	GDP	C2-N3-C4	5.01	120.93	112.30
53	1g	501	GDP	C2-N3-C4	5.01	120.92	112.30
53	Bg	501	GDP	C2-N3-C4	5.00	120.92	112.30
54	6g	501	GTP	C5-C4-N3	-5.00	120.43	128.39
53	4c	501	GDP	C2-N3-C4	5.00	120.91	112.30
54	5c	501	GTP	C5-C4-N3	-5.00	120.43	128.39
53	Da	501	GDP	C2-N3-C4	5.00	120.91	112.30
53	Ba	501	GDP	C2-N3-C4	5.00	120.90	112.30
53	2g	501	GDP	C2-N3-C4	4.99	120.90	112.30
53	2c	501	GDP	C2-N3-C4	4.99	120.89	112.30
53	9a	501	GDP	C2-N3-C4	4.99	120.89	112.30
54	Bh	501	GTP	C2-N3-C4	4.67	120.34	112.30
54	6h	501	GTP	C2-N3-C4	4.65	120.32	112.30
54	9h	501	GTP	C2-N3-C4	4.65	120.31	112.30
54	1d	501	GTP	C2-N3-C4	4.65	120.31	112.30
54	6e	501	GTP	C2-N3-C4	4.65	120.31	112.30
54	8b	501	GTP	C2-N3-C4	4.64	120.30	112.30
54	Ch	501	GTP	C2-N3-C4	4.64	120.30	112.30
54	Df	501	GTP	C2-N3-C4	4.64	120.30	112.30
54	Ab	501	GTP	C2-N3-C4	4.64	120.30	112.30
54	Bf	501	GTP	C2-N3-C4	4.64	120.30	112.30
54	1h	501	GTP	C2-N3-C4	4.64	120.29	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	3f	501	GTP	C2-N3-C4	4.64	120.29	112.30
54	9f	501	GTP	C2-N3-C4	4.64	120.29	112.30
54	Bb	501	GTP	C2-N3-C4	4.64	120.29	112.30
54	7b	501	GTP	C2-N3-C4	4.64	120.28	112.30
54	4f	501	GTP	C2-N3-C4	4.63	120.28	112.30
54	5d	501	GTP	C2-N3-C4	4.63	120.28	112.30
54	Bd	501	GTP	C2-N3-C4	4.63	120.28	112.30
54	7h	501	GTP	C2-N3-C4	4.63	120.28	112.30
54	8d	501	GTP	C2-N3-C4	4.63	120.28	112.30
54	8f	501	GTP	C2-N3-C4	4.63	120.28	112.30
54	Af	501	GTP	C2-N3-C4	4.63	120.28	112.30
54	Dh	501	GTP	C2-N3-C4	4.63	120.28	112.30
54	1f	501	GTP	C2-N3-C4	4.63	120.28	112.30
54	Cc	501	GTP	C2-N3-C4	4.63	120.27	112.30
54	2h	501	GTP	C2-N3-C4	4.63	120.27	112.30
54	4b	501	GTP	C2-N3-C4	4.63	120.27	112.30
54	5f	501	GTP	C2-N3-C4	4.63	120.27	112.30
54	Cd	501	GTP	C2-N3-C4	4.63	120.27	112.30
54	2f	501	GTP	C2-N3-C4	4.63	120.27	112.30
54	Ah	501	GTP	C2-N3-C4	4.63	120.27	112.30
54	Dd	501	GTP	C2-N3-C4	4.63	120.27	112.30
54	9b	501	GTP	C2-N3-C4	4.63	120.27	112.30
54	Ae	501	GTP	C2-N3-C4	4.63	120.27	112.30
54	6c	501	GTP	C2-N3-C4	4.62	120.27	112.30
54	3d	501	GTP	C2-N3-C4	4.62	120.26	112.30
54	4h	501	GTP	C2-N3-C4	4.62	120.26	112.30
54	7e	501	GTP	C2-N3-C4	4.62	120.26	112.30
54	7f	501	GTP	C2-N3-C4	4.62	120.26	112.30
54	2b	501	GTP	C2-N3-C4	4.62	120.26	112.30
54	3h	501	GTP	C2-N3-C4	4.62	120.26	112.30
54	8h	501	GTP	C2-N3-C4	4.62	120.25	112.30
54	4d	501	GTP	C2-N3-C4	4.62	120.25	112.30
54	3c	501	GTP	C2-N3-C4	4.61	120.25	112.30
54	2d	501	GTP	C2-N3-C4	4.61	120.25	112.30
54	5h	501	GTP	C2-N3-C4	4.61	120.24	112.30
54	1b	501	GTP	C2-N3-C4	4.61	120.24	112.30
54	9e	501	GTP	C2-N3-C4	4.61	120.24	112.30
54	Db	501	GTP	C2-N3-C4	4.61	120.23	112.30
54	Cf	501	GTP	C2-N3-C4	4.60	120.22	112.30
54	6g	501	GTP	C2-N3-C4	4.59	120.21	112.30
54	5c	501	GTP	C2-N3-C4	4.59	120.20	112.30
53	6e	502	GDP	N9-C4-N3	4.46	134.86	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	4e	501	GDP	N9-C4-N3	4.46	134.86	125.95
53	7e	502	GDP	N9-C4-N3	4.45	134.85	125.95
53	9c	501	GDP	N9-C4-N3	4.45	134.84	125.95
53	6c	502	GDP	N9-C4-N3	4.44	134.84	125.95
53	Cc	502	GDP	N9-C4-N3	4.44	134.83	125.95
53	1g	501	GDP	N9-C4-N3	4.44	134.83	125.95
53	3a	501	GDP	N9-C4-N3	4.43	134.81	125.95
53	4c	501	GDP	N9-C4-N3	4.43	134.81	125.95
53	7c	501	GDP	N9-C4-N3	4.43	134.81	125.95
53	Dg	501	GDP	N9-C4-N3	4.43	134.81	125.95
53	4a	501	GDP	N9-C4-N3	4.43	134.81	125.95
53	9g	501	GDP	N9-C4-N3	4.43	134.81	125.95
53	3e	501	GDP	N9-C4-N3	4.43	134.81	125.95
53	2a	501	GDP	N9-C4-N3	4.43	134.80	125.95
53	4g	501	GDP	N9-C4-N3	4.43	134.80	125.95
53	5g	501	GDP	N9-C4-N3	4.43	134.80	125.95
53	8c	501	GDP	N9-C4-N3	4.42	134.80	125.95
53	8a	501	GDP	N9-C4-N3	4.42	134.80	125.95
53	1c	501	GDP	N9-C4-N3	4.42	134.80	125.95
53	5e	501	GDP	N9-C4-N3	4.42	134.79	125.95
53	5c	502	GDP	N9-C4-N3	4.42	134.79	125.95
53	Ac	501	GDP	N9-C4-N3	4.42	134.78	125.95
53	2c	501	GDP	N9-C4-N3	4.41	134.78	125.95
53	Bc	501	GDP	N9-C4-N3	4.41	134.78	125.95
53	7g	501	GDP	N9-C4-N3	4.41	134.77	125.95
53	3g	501	GDP	N9-C4-N3	4.41	134.76	125.95
53	9a	501	GDP	N9-C4-N3	4.41	134.76	125.95
53	2e	501	GDP	N9-C4-N3	4.40	134.75	125.95
53	Ag	501	GDP	N9-C4-N3	4.40	134.75	125.95
53	Bg	501	GDP	N9-C4-N3	4.40	134.75	125.95
53	8e	501	GDP	N9-C4-N3	4.40	134.75	125.95
53	8g	501	GDP	N9-C4-N3	4.39	134.74	125.95
53	Cg	501	GDP	N9-C4-N3	4.39	134.74	125.95
53	3c	502	GDP	N9-C4-N3	4.39	134.73	125.95
53	7a	501	GDP	N9-C4-N3	4.39	134.73	125.95
53	2g	501	GDP	N9-C4-N3	4.39	134.73	125.95
53	6a	501	GDP	N9-C4-N3	4.39	134.72	125.95
53	9e	502	GDP	N9-C4-N3	4.38	134.72	125.95
53	Dc	501	GDP	N9-C4-N3	4.38	134.71	125.95
53	6g	502	GDP	N9-C4-N3	4.38	134.71	125.95
53	5a	501	GDP	N9-C4-N3	4.37	134.69	125.95
53	Ae	502	GDP	N9-C4-N3	4.36	134.68	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	Ca	501	GDP	N9-C4-N3	4.35	134.65	125.95
53	1a	501	GDP	N9-C4-N3	4.34	134.63	125.95
53	Aa	501	GDP	N9-C4-N3	4.32	134.59	125.95
53	De	501	GDP	N9-C4-N3	4.31	134.58	125.95
53	Da	501	GDP	N9-C4-N3	4.30	134.54	125.95
53	1e	501	GDP	N9-C4-N3	4.28	134.52	125.95
53	Ce	501	GDP	N9-C4-N3	4.26	134.48	125.95
53	Be	501	GDP	N9-C4-N3	4.26	134.48	125.95
53	Ba	501	GDP	N9-C4-N3	4.22	134.40	125.95
53	1e	501	GDP	C6-C5-N7	3.48	136.62	130.29
53	Ba	501	GDP	C6-C5-N7	3.47	136.61	130.29
53	Be	501	GDP	C6-C5-N7	3.44	136.56	130.29
53	1a	501	GDP	C6-C5-N7	3.44	136.55	130.29
53	Ce	501	GDP	C6-C5-N7	3.43	136.54	130.29
53	Ae	502	GDP	C6-C5-N7	3.41	136.50	130.29
53	Bc	501	GDP	C6-C5-N7	3.41	136.49	130.29
53	9g	501	GDP	C6-C5-N7	3.39	136.47	130.29
53	Da	501	GDP	C6-C5-N7	3.39	136.45	130.29
53	Aa	501	GDP	C6-C5-N7	3.38	136.45	130.29
53	9c	501	GDP	C6-C5-N7	3.38	136.44	130.29
53	De	501	GDP	C6-C5-N7	3.37	136.43	130.29
53	9e	502	GDP	C6-C5-N7	3.37	136.42	130.29
53	8a	501	GDP	C6-C5-N7	3.36	136.41	130.29
53	3c	502	GDP	C6-C5-N7	3.35	136.39	130.29
53	Dc	501	GDP	C6-C5-N7	3.35	136.39	130.29
53	Ca	501	GDP	C6-C5-N7	3.35	136.39	130.29
53	5a	501	GDP	C6-C5-N7	3.35	136.39	130.29
53	7g	501	GDP	C6-C5-N7	3.35	136.38	130.29
53	Cg	501	GDP	C6-C5-N7	3.35	136.38	130.29
53	6g	502	GDP	C6-C5-N7	3.34	136.37	130.29
53	8g	501	GDP	C6-C5-N7	3.34	136.37	130.29
53	5c	502	GDP	C6-C5-N7	3.34	136.36	130.29
53	7c	501	GDP	C6-C5-N7	3.33	136.36	130.29
53	2c	501	GDP	C6-C5-N7	3.33	136.35	130.29
53	5g	501	GDP	C6-C5-N7	3.33	136.35	130.29
53	3g	501	GDP	C6-C5-N7	3.33	136.35	130.29
53	8e	501	GDP	C6-C5-N7	3.33	136.35	130.29
53	6a	501	GDP	C6-C5-N7	3.33	136.34	130.29
53	9a	501	GDP	C6-C5-N7	3.33	136.34	130.29
53	Cc	502	GDP	C6-C5-N7	3.33	136.34	130.29
53	1g	501	GDP	C6-C5-N7	3.33	136.34	130.29
53	4a	501	GDP	C6-C5-N7	3.32	136.34	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	4g	501	GDP	C6-C5-N7	3.32	136.34	130.29
53	Dg	501	GDP	C6-C5-N7	3.32	136.33	130.29
53	Bg	501	GDP	C6-C5-N7	3.32	136.33	130.29
53	2e	501	GDP	C6-C5-N7	3.32	136.32	130.29
53	7a	501	GDP	C6-C5-N7	3.31	136.32	130.29
53	8c	501	GDP	C6-C5-N7	3.31	136.32	130.29
53	2g	501	GDP	C6-C5-N7	3.31	136.32	130.29
53	6c	502	GDP	C6-C5-N7	3.31	136.31	130.29
53	Ac	501	GDP	C6-C5-N7	3.31	136.31	130.29
53	4c	501	GDP	C6-C5-N7	3.31	136.31	130.29
53	6e	502	GDP	C6-C5-N7	3.31	136.31	130.29
53	2a	501	GDP	C6-C5-N7	3.31	136.31	130.29
53	5e	501	GDP	C6-C5-N7	3.31	136.31	130.29
53	1c	501	GDP	C6-C5-N7	3.30	136.30	130.29
53	7e	502	GDP	C6-C5-N7	3.30	136.30	130.29
53	3a	501	GDP	C6-C5-N7	3.29	136.28	130.29
53	4e	501	GDP	C6-C5-N7	3.29	136.28	130.29
54	6h	501	GTP	N9-C4-N3	3.28	132.52	125.95
53	Ag	501	GDP	C6-C5-N7	3.28	136.26	130.29
54	6e	501	GTP	N9-C4-N3	3.28	132.51	125.95
54	2f	501	GTP	N9-C4-N3	3.28	132.51	125.95
54	Ab	501	GTP	N9-C4-N3	3.28	132.51	125.95
54	7h	501	GTP	N9-C4-N3	3.28	132.50	125.95
53	3e	501	GDP	C6-C5-N7	3.27	136.25	130.29
54	5h	501	GTP	N9-C4-N3	3.27	132.50	125.95
54	Bh	501	GTP	N9-C4-N3	3.27	132.49	125.95
54	6c	501	GTP	N9-C4-N3	3.27	132.49	125.95
54	7b	501	GTP	N9-C4-N3	3.27	132.49	125.95
54	3h	501	GTP	N9-C4-N3	3.27	132.49	125.95
54	4f	501	GTP	N9-C4-N3	3.27	132.49	125.95
54	Dd	501	GTP	N9-C4-N3	3.26	132.48	125.95
54	8b	501	GTP	N9-C4-N3	3.26	132.48	125.95
54	9h	501	GTP	N9-C4-N3	3.26	132.48	125.95
54	Ah	501	GTP	N9-C4-N3	3.26	132.48	125.95
54	7f	501	GTP	N9-C4-N3	3.26	132.47	125.95
54	Bb	501	GTP	N9-C4-N3	3.26	132.47	125.95
54	Df	501	GTP	N9-C4-N3	3.26	132.47	125.95
54	9b	501	GTP	N9-C4-N3	3.26	132.47	125.95
54	4d	501	GTP	N9-C4-N3	3.26	132.47	125.95
54	5f	501	GTP	N9-C4-N3	3.26	132.47	125.95
54	Bf	501	GTP	N9-C4-N3	3.26	132.47	125.95
54	8f	501	GTP	N9-C4-N3	3.26	132.47	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	8d	501	GTP	N9-C4-N3	3.26	132.47	125.95
54	9f	501	GTP	N9-C4-N3	3.26	132.46	125.95
54	Af	501	GTP	N9-C4-N3	3.26	132.46	125.95
54	Ch	501	GTP	N9-C4-N3	3.25	132.46	125.95
54	7e	501	GTP	N9-C4-N3	3.25	132.46	125.95
54	4b	501	GTP	N9-C4-N3	3.25	132.46	125.95
54	5d	501	GTP	N9-C4-N3	3.25	132.46	125.95
54	3c	501	GTP	N9-C4-N3	3.25	132.46	125.95
54	2b	501	GTP	N9-C4-N3	3.25	132.45	125.95
54	9e	501	GTP	N9-C4-N3	3.25	132.45	125.95
54	Db	501	GTP	N9-C4-N3	3.25	132.45	125.95
54	1h	501	GTP	N9-C4-N3	3.25	132.45	125.95
54	2h	501	GTP	N9-C4-N3	3.25	132.45	125.95
54	Cc	501	GTP	N9-C4-N3	3.25	132.45	125.95
54	3d	501	GTP	N9-C4-N3	3.25	132.45	125.95
54	1f	501	GTP	N9-C4-N3	3.25	132.45	125.95
54	8h	501	GTP	N9-C4-N3	3.25	132.45	125.95
54	Cf	501	GTP	N9-C4-N3	3.25	132.45	125.95
54	1d	501	GTP	N9-C4-N3	3.25	132.44	125.95
54	Bd	501	GTP	N9-C4-N3	3.25	132.44	125.95
54	6g	501	GTP	N9-C4-N3	3.25	132.44	125.95
54	Dh	501	GTP	N9-C4-N3	3.25	132.44	125.95
54	1b	501	GTP	N9-C4-N3	3.24	132.44	125.95
54	Cd	501	GTP	N9-C4-N3	3.24	132.44	125.95
54	2d	501	GTP	N9-C4-N3	3.24	132.44	125.95
54	3f	501	GTP	N9-C4-N3	3.24	132.43	125.95
54	4h	501	GTP	N9-C4-N3	3.24	132.43	125.95
54	5c	501	GTP	N9-C4-N3	3.24	132.42	125.95
54	Ae	501	GTP	N9-C4-N3	3.23	132.42	125.95
54	2d	501	GTP	C2-N1-C6	-2.96	119.74	125.11
54	3h	501	GTP	C2-N1-C6	-2.95	119.76	125.11
54	1d	501	GTP	C2-N1-C6	-2.95	119.77	125.11
54	1f	501	GTP	C2-N1-C6	-2.94	119.78	125.11
54	5f	501	GTP	C2-N1-C6	-2.94	119.78	125.11
54	Af	501	GTP	C2-N1-C6	-2.94	119.78	125.11
54	1h	501	GTP	C2-N1-C6	-2.94	119.78	125.11
54	6c	501	GTP	C2-N1-C6	-2.94	119.78	125.11
54	2f	501	GTP	C2-N1-C6	-2.94	119.79	125.11
54	6h	501	GTP	C2-N1-C6	-2.94	119.79	125.11
54	Cc	501	GTP	C2-N1-C6	-2.94	119.79	125.11
54	2b	501	GTP	C2-N1-C6	-2.93	119.79	125.11
54	8b	501	GTP	C2-N1-C6	-2.93	119.80	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	Ab	501	GTP	C2-N1-C6	-2.93	119.80	125.11
54	3d	501	GTP	C2-N1-C6	-2.93	119.80	125.11
54	8h	501	GTP	C2-N1-C6	-2.93	119.80	125.11
54	8d	501	GTP	C2-N1-C6	-2.93	119.80	125.11
54	7b	501	GTP	C2-N1-C6	-2.93	119.80	125.11
54	7h	501	GTP	C2-N1-C6	-2.93	119.80	125.11
54	8f	501	GTP	C2-N1-C6	-2.92	119.81	125.11
54	Dh	501	GTP	C2-N1-C6	-2.92	119.81	125.11
54	2h	501	GTP	C2-N1-C6	-2.92	119.81	125.11
54	Ch	501	GTP	C2-N1-C6	-2.92	119.81	125.11
54	3c	501	GTP	C2-N1-C6	-2.92	119.82	125.11
54	5c	501	GTP	C2-N1-C6	-2.92	119.82	125.11
54	Cd	501	GTP	C2-N1-C6	-2.92	119.82	125.11
54	Df	501	GTP	C2-N1-C6	-2.92	119.82	125.11
54	5h	501	GTP	C2-N1-C6	-2.92	119.82	125.11
54	9f	501	GTP	C2-N1-C6	-2.92	119.82	125.11
54	6e	501	GTP	C2-N1-C6	-2.92	119.82	125.11
54	Dd	501	GTP	C2-N1-C6	-2.92	119.82	125.11
54	Ae	501	GTP	C2-N1-C6	-2.92	119.82	125.11
54	5d	501	GTP	C2-N1-C6	-2.92	119.82	125.11
54	6g	501	GTP	C2-N1-C6	-2.91	119.83	125.11
54	9h	501	GTP	C2-N1-C6	-2.91	119.83	125.11
54	Db	501	GTP	C2-N1-C6	-2.91	119.83	125.11
54	Bh	501	GTP	C2-N1-C6	-2.91	119.83	125.11
54	Bf	501	GTP	C2-N1-C6	-2.91	119.83	125.11
54	Cf	501	GTP	C2-N1-C6	-2.91	119.83	125.11
54	9b	501	GTP	C2-N1-C6	-2.91	119.84	125.11
54	Bd	501	GTP	C2-N1-C6	-2.91	119.84	125.11
54	4d	501	GTP	C2-N1-C6	-2.90	119.84	125.11
54	7f	501	GTP	C2-N1-C6	-2.90	119.84	125.11
54	Bb	501	GTP	C2-N1-C6	-2.90	119.84	125.11
54	4h	501	GTP	C2-N1-C6	-2.90	119.85	125.11
54	4b	501	GTP	C2-N1-C6	-2.90	119.85	125.11
54	4f	501	GTP	C2-N1-C6	-2.90	119.86	125.11
54	3f	501	GTP	C2-N1-C6	-2.90	119.86	125.11
54	7e	501	GTP	C2-N1-C6	-2.90	119.86	125.11
54	9e	501	GTP	C2-N1-C6	-2.89	119.87	125.11
54	1b	501	GTP	C2-N1-C6	-2.89	119.87	125.11
54	Ah	501	GTP	C2-N1-C6	-2.89	119.87	125.11
53	Ba	501	GDP	C4-C5-N7	-2.80	106.24	110.67
53	Aa	501	GDP	C4-C5-N7	-2.75	106.32	110.67
53	9e	502	GDP	C4-C5-N7	-2.72	106.36	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	9e	501	GTP	N9-C8-N7	-2.72	108.35	113.40
54	Ab	501	GTP	N9-C8-N7	-2.72	108.36	113.40
54	6h	501	GTP	N9-C8-N7	-2.72	108.36	113.40
53	1e	501	GDP	C4-C5-N7	-2.71	106.37	110.67
54	9f	501	GTP	N9-C8-N7	-2.71	108.37	113.40
54	3c	501	GTP	N9-C8-N7	-2.71	108.37	113.40
54	5c	501	GTP	N9-C8-N7	-2.71	108.38	113.40
53	Ca	501	GDP	C4-C5-N7	-2.71	106.38	110.67
53	8a	501	GDP	C4-C5-N7	-2.71	106.38	110.67
54	Db	501	GTP	N9-C8-N7	-2.71	108.38	113.40
54	3d	501	GTP	N9-C8-N7	-2.71	108.38	113.40
54	Bh	501	GTP	N9-C8-N7	-2.71	108.38	113.40
54	4f	501	GTP	N9-C8-N7	-2.70	108.39	113.40
54	6g	501	GTP	N9-C8-N7	-2.70	108.39	113.40
54	8f	501	GTP	N9-C8-N7	-2.70	108.39	113.40
54	Bb	501	GTP	N9-C8-N7	-2.70	108.39	113.40
54	6c	501	GTP	N9-C8-N7	-2.70	108.39	113.40
54	7h	501	GTP	N9-C8-N7	-2.70	108.39	113.40
54	Ah	501	GTP	N9-C8-N7	-2.70	108.39	113.40
54	Cd	501	GTP	N9-C8-N7	-2.70	108.39	113.40
53	8e	501	GDP	C4-C5-N7	-2.70	106.39	110.67
54	Bd	501	GTP	N9-C8-N7	-2.70	108.40	113.40
54	1d	501	GTP	N9-C8-N7	-2.70	108.40	113.40
54	1b	501	GTP	N9-C8-N7	-2.70	108.40	113.40
54	2f	501	GTP	N9-C8-N7	-2.70	108.40	113.40
54	Ch	501	GTP	N9-C8-N7	-2.69	108.40	113.40
54	8b	501	GTP	N9-C8-N7	-2.69	108.40	113.40
54	Dh	501	GTP	N9-C8-N7	-2.69	108.41	113.40
53	Ae	502	GDP	C4-C5-N7	-2.69	106.40	110.67
53	Be	501	GDP	C4-C5-N7	-2.69	106.40	110.67
54	7b	501	GTP	N9-C8-N7	-2.69	108.41	113.40
54	Cc	501	GTP	N9-C8-N7	-2.69	108.41	113.40
53	7a	501	GDP	C4-C5-N7	-2.69	106.41	110.67
54	5h	501	GTP	N9-C8-N7	-2.69	108.41	113.40
54	4d	501	GTP	N9-C8-N7	-2.69	108.41	113.40
54	7e	501	GTP	N9-C8-N7	-2.69	108.42	113.40
53	Ce	501	GDP	C4-C5-N7	-2.69	106.41	110.67
54	1h	501	GTP	N9-C8-N7	-2.69	108.42	113.40
54	8d	501	GTP	N9-C8-N7	-2.69	108.42	113.40
54	9b	501	GTP	N9-C8-N7	-2.69	108.42	113.40
54	Cf	501	GTP	N9-C8-N7	-2.69	108.42	113.40
54	7f	501	GTP	N9-C8-N7	-2.69	108.42	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	Bf	501	GTP	N9-C8-N7	-2.69	108.42	113.40
54	2b	501	GTP	N9-C8-N7	-2.68	108.43	113.40
54	6e	501	GTP	N9-C8-N7	-2.68	108.43	113.40
54	8h	501	GTP	N9-C8-N7	-2.68	108.43	113.40
54	Ae	501	GTP	N9-C8-N7	-2.68	108.43	113.40
54	4b	501	GTP	N9-C8-N7	-2.68	108.43	113.40
54	Af	501	GTP	N9-C8-N7	-2.68	108.43	113.40
54	4h	501	GTP	N9-C8-N7	-2.68	108.43	113.40
53	6e	502	GDP	C4-C5-N7	-2.68	106.42	110.67
54	2d	501	GTP	N9-C8-N7	-2.68	108.44	113.40
54	Df	501	GTP	N9-C8-N7	-2.68	108.44	113.40
53	6a	501	GDP	C4-C5-N7	-2.68	106.43	110.67
54	9h	501	GTP	N9-C8-N7	-2.68	108.44	113.40
54	Dd	501	GTP	N9-C8-N7	-2.68	108.44	113.40
54	2h	501	GTP	N9-C8-N7	-2.68	108.44	113.40
54	5d	501	GTP	N9-C8-N7	-2.68	108.44	113.40
53	De	501	GDP	C4-C5-N7	-2.68	106.43	110.67
54	3h	501	GTP	N9-C8-N7	-2.67	108.44	113.40
53	7e	502	GDP	C4-C5-N7	-2.67	106.43	110.67
53	5a	501	GDP	C4-C5-N7	-2.67	106.43	110.67
54	1f	501	GTP	N9-C8-N7	-2.67	108.44	113.40
53	1a	501	GDP	C4-C5-N7	-2.67	106.44	110.67
53	5e	501	GDP	C4-C5-N7	-2.67	106.44	110.67
53	Da	501	GDP	C4-C5-N7	-2.67	106.44	110.67
53	4e	501	GDP	C4-C5-N7	-2.67	106.44	110.67
54	3f	501	GTP	N9-C8-N7	-2.67	108.45	113.40
53	4a	501	GDP	C4-C5-N7	-2.67	106.44	110.67
53	9a	501	GDP	C4-C5-N7	-2.67	106.44	110.67
53	3e	501	GDP	C4-C5-N7	-2.66	106.45	110.67
53	2e	501	GDP	C4-C5-N7	-2.66	106.45	110.67
53	9c	501	GDP	C4-C5-N7	-2.66	106.45	110.67
54	5f	501	GTP	N9-C8-N7	-2.66	108.47	113.40
53	Bc	501	GDP	C4-C5-N7	-2.65	106.47	110.67
53	2a	501	GDP	C4-C5-N7	-2.64	106.48	110.67
53	3a	501	GDP	C4-C5-N7	-2.63	106.50	110.67
53	8g	501	GDP	C4-C5-N7	-2.62	106.51	110.67
53	9g	501	GDP	C4-C5-N7	-2.62	106.52	110.67
53	1g	501	GDP	C4-C5-N7	-2.62	106.52	110.67
53	2g	501	GDP	C4-C5-N7	-2.61	106.53	110.67
53	6c	502	GDP	C4-C5-N7	-2.61	106.53	110.67
53	4c	501	GDP	C4-C5-N7	-2.61	106.53	110.67
53	6g	502	GDP	C4-C5-N7	-2.60	106.54	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	Cc	502	GDP	C4-C5-N7	-2.60	106.55	110.67
53	Dc	501	GDP	C4-C5-N7	-2.60	106.55	110.67
53	7g	501	GDP	C4-C5-N7	-2.60	106.55	110.67
53	5g	501	GDP	C4-C5-N7	-2.59	106.56	110.67
53	4g	501	GDP	C4-C5-N7	-2.59	106.56	110.67
53	Ac	501	GDP	C4-C5-N7	-2.59	106.56	110.67
53	Dg	501	GDP	C4-C5-N7	-2.59	106.56	110.67
53	5c	502	GDP	C4-C5-N7	-2.59	106.56	110.67
53	3g	501	GDP	C4-C5-N7	-2.59	106.56	110.67
53	1c	501	GDP	C4-C5-N7	-2.58	106.59	110.67
53	3c	502	GDP	C4-C5-N7	-2.58	106.59	110.67
53	7c	501	GDP	C4-C5-N7	-2.58	106.59	110.67
53	Cg	501	GDP	C4-C5-N7	-2.58	106.59	110.67
53	Ag	501	GDP	C4-C5-N7	-2.57	106.60	110.67
54	3h	501	GTP	C5-C6-N1	2.57	119.79	113.25
53	Bg	501	GDP	C4-C5-N7	-2.57	106.60	110.67
54	1d	501	GTP	C5-C6-N1	2.57	119.78	113.25
54	1f	501	GTP	C5-C6-N1	2.57	119.78	113.25
54	Af	501	GTP	C5-C6-N1	2.56	119.78	113.25
53	8c	501	GDP	C4-C5-N7	-2.56	106.61	110.67
54	Cc	501	GTP	C5-C6-N1	2.56	119.78	113.25
54	2d	501	GTP	C5-C6-N1	2.56	119.77	113.25
54	8b	501	GTP	C5-C6-N1	2.56	119.77	113.25
54	Cd	501	GTP	C5-C6-N1	2.56	119.77	113.25
54	2b	501	GTP	C5-C6-N1	2.56	119.77	113.25
54	7b	501	GTP	C5-C6-N1	2.56	119.77	113.25
54	4b	501	GTP	C5-C6-N1	2.56	119.77	113.25
54	8f	501	GTP	C5-C6-N1	2.56	119.77	113.25
54	Ch	501	GTP	C5-C6-N1	2.56	119.77	113.25
54	2f	501	GTP	C5-C6-N1	2.56	119.76	113.25
54	3c	501	GTP	C5-C6-N1	2.56	119.76	113.25
54	6g	501	GTP	C5-C6-N1	2.56	119.76	113.25
53	8c	501	GDP	C3'-C2'-C1'	2.56	106.30	101.46
54	6c	501	GTP	C5-C6-N1	2.56	119.76	113.25
54	8h	501	GTP	C5-C6-N1	2.56	119.76	113.25
54	Dd	501	GTP	C5-C6-N1	2.56	119.76	113.25
54	3d	501	GTP	C5-C6-N1	2.55	119.76	113.25
54	7h	501	GTP	C5-C6-N1	2.55	119.75	113.25
54	6h	501	GTP	C5-C6-N1	2.55	119.75	113.25
54	Bd	501	GTP	C5-C6-N1	2.55	119.75	113.25
53	Bg	501	GDP	C3'-C2'-C1'	2.55	106.29	101.46
54	Dh	501	GTP	C5-C6-N1	2.55	119.75	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	6g	501	GTP	C8-N7-C5	2.55	108.80	104.26
54	9f	501	GTP	C5-C6-N1	2.55	119.74	113.25
54	Bb	501	GTP	C5-C6-N1	2.55	119.74	113.25
54	Df	501	GTP	C5-C6-N1	2.55	119.74	113.25
54	5c	501	GTP	C5-C6-N1	2.55	119.74	113.25
54	9e	501	GTP	C8-N7-C5	2.55	108.80	104.26
54	8d	501	GTP	C5-C6-N1	2.55	119.73	113.25
54	1h	501	GTP	C5-C6-N1	2.55	119.73	113.25
54	9h	501	GTP	C5-C6-N1	2.55	119.73	113.25
53	2c	501	GDP	C4-C5-N7	-2.54	106.64	110.67
54	5h	501	GTP	C5-C6-N1	2.54	119.73	113.25
54	Bh	501	GTP	C8-N7-C5	2.54	108.79	104.26
54	3f	501	GTP	C5-C6-N1	2.54	119.73	113.25
54	6h	501	GTP	C8-N7-C5	2.54	108.79	104.26
54	5d	501	GTP	C5-C6-N1	2.54	119.73	113.25
54	Cf	501	GTP	C5-C6-N1	2.54	119.72	113.25
54	Ch	501	GTP	C8-N7-C5	2.54	108.79	104.26
54	Ae	501	GTP	C5-C6-N1	2.54	119.72	113.25
54	4d	501	GTP	C8-N7-C5	2.54	108.79	104.26
54	7f	501	GTP	C5-C6-N1	2.54	119.72	113.25
54	Ab	501	GTP	C5-C6-N1	2.54	119.72	113.25
54	3d	501	GTP	C8-N7-C5	2.54	108.78	104.26
54	5f	501	GTP	C5-C6-N1	2.54	119.72	113.25
54	4f	501	GTP	C5-C6-N1	2.54	119.72	113.25
54	4h	501	GTP	C5-C6-N1	2.54	119.72	113.25
54	Bf	501	GTP	C5-C6-N1	2.54	119.72	113.25
54	1d	501	GTP	C8-N7-C5	2.54	108.78	104.26
54	Db	501	GTP	C5-C6-N1	2.54	119.71	113.25
54	Bh	501	GTP	C5-C6-N1	2.54	119.71	113.25
54	5c	501	GTP	C8-N7-C5	2.54	108.78	104.26
54	4d	501	GTP	C5-C6-N1	2.54	119.71	113.25
54	3c	501	GTP	C8-N7-C5	2.54	108.78	104.26
54	Bf	501	GTP	C8-N7-C5	2.54	108.78	104.26
54	2h	501	GTP	C5-C6-N1	2.54	119.71	113.25
54	9e	501	GTP	C5-C6-N1	2.54	119.71	113.25
54	4b	501	GTP	C8-N7-C5	2.53	108.78	104.26
54	8b	501	GTP	C8-N7-C5	2.53	108.78	104.26
54	9b	501	GTP	C5-C6-N1	2.53	119.70	113.25
54	2f	501	GTP	C8-N7-C5	2.53	108.77	104.26
54	Cd	501	GTP	C8-N7-C5	2.53	108.77	104.26
54	7e	501	GTP	C5-C6-N1	2.53	119.70	113.25
54	2b	501	GTP	C8-N7-C5	2.53	108.77	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	9h	501	GTP	O6-C6-C5	-2.53	119.85	126.53
54	4b	501	GTP	O6-C6-C5	-2.53	119.85	126.53
54	4h	501	GTP	C8-N7-C5	2.53	108.77	104.26
54	7b	501	GTP	C8-N7-C5	2.53	108.77	104.26
54	5h	501	GTP	C8-N7-C5	2.53	108.77	104.26
54	Ab	501	GTP	C8-N7-C5	2.53	108.77	104.26
54	Bd	501	GTP	C8-N7-C5	2.53	108.77	104.26
54	Ah	501	GTP	C5-C6-N1	2.53	119.69	113.25
54	4f	501	GTP	C8-N7-C5	2.53	108.77	104.26
54	8f	501	GTP	C8-N7-C5	2.53	108.77	104.26
54	1h	501	GTP	C8-N7-C5	2.53	108.76	104.26
54	6e	501	GTP	C5-C6-N1	2.53	119.69	113.25
54	7e	501	GTP	C8-N7-C5	2.53	108.76	104.26
54	6g	501	GTP	O6-C6-C5	-2.53	119.87	126.53
54	9f	501	GTP	C8-N7-C5	2.52	108.76	104.26
54	6c	501	GTP	C8-N7-C5	2.52	108.76	104.26
54	Dd	501	GTP	C8-N7-C5	2.52	108.76	104.26
54	Dd	501	GTP	O6-C6-C5	-2.52	119.87	126.53
54	7h	501	GTP	C8-N7-C5	2.52	108.75	104.26
54	Bb	501	GTP	C8-N7-C5	2.52	108.75	104.26
54	1b	501	GTP	C5-C6-N1	2.52	119.67	113.25
54	Ae	501	GTP	C8-N7-C5	2.52	108.75	104.26
54	1d	501	GTP	O6-C6-C5	-2.52	119.88	126.53
54	3d	501	GTP	O6-C6-C5	-2.52	119.88	126.53
54	1f	501	GTP	O6-C6-C5	-2.52	119.88	126.53
54	Df	501	GTP	O6-C6-C5	-2.52	119.88	126.53
54	7f	501	GTP	C8-N7-C5	2.52	108.75	104.26
54	Ah	501	GTP	C8-N7-C5	2.52	108.75	104.26
54	9e	501	GTP	O6-C6-C5	-2.52	119.88	126.53
54	8d	501	GTP	O6-C6-C5	-2.52	119.89	126.53
54	3h	501	GTP	C8-N7-C5	2.52	108.75	104.26
54	Cf	501	GTP	C8-N7-C5	2.52	108.75	104.26
54	5c	501	GTP	O6-C6-C5	-2.52	119.89	126.53
54	3f	501	GTP	O6-C6-C5	-2.52	119.89	126.53
54	8h	501	GTP	O6-C6-C5	-2.52	119.89	126.53
54	Bd	501	GTP	O6-C6-C5	-2.52	119.89	126.53
54	5d	501	GTP	O6-C6-C5	-2.52	119.89	126.53
54	Db	501	GTP	O6-C6-C5	-2.52	119.89	126.53
54	Dh	501	GTP	C8-N7-C5	2.52	108.74	104.26
54	4h	501	GTP	O6-C6-C5	-2.51	119.89	126.53
54	8h	501	GTP	C8-N7-C5	2.51	108.74	104.26
54	8b	501	GTP	O6-C6-C5	-2.51	119.89	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	8f	501	GTP	O6-C6-C5	-2.51	119.89	126.53
54	2b	501	GTP	O6-C6-C5	-2.51	119.90	126.53
54	4d	501	GTP	O6-C6-C5	-2.51	119.90	126.53
54	3c	501	GTP	O6-C6-C5	-2.51	119.90	126.53
54	2d	501	GTP	O6-C6-C5	-2.51	119.90	126.53
54	5h	501	GTP	O6-C6-C5	-2.51	119.90	126.53
54	1f	501	GTP	C8-N7-C5	2.51	108.74	104.26
54	3h	501	GTP	O6-C6-C5	-2.51	119.90	126.53
54	Af	501	GTP	C8-N7-C5	2.51	108.74	104.26
54	Cf	501	GTP	O6-C6-C5	-2.51	119.90	126.53
54	Cd	501	GTP	O6-C6-C5	-2.51	119.90	126.53
54	7f	501	GTP	O6-C6-C5	-2.51	119.91	126.53
54	8d	501	GTP	C8-N7-C5	2.51	108.73	104.26
54	Db	501	GTP	C8-N7-C5	2.51	108.73	104.26
54	Dh	501	GTP	O6-C6-C5	-2.51	119.91	126.53
54	9h	501	GTP	C8-N7-C5	2.51	108.73	104.26
54	Ah	501	GTP	O6-C6-C5	-2.51	119.91	126.53
54	Ch	501	GTP	O6-C6-C5	-2.51	119.91	126.53
54	7e	501	GTP	O6-C6-C5	-2.51	119.91	126.53
54	6h	501	GTP	O6-C6-C5	-2.51	119.91	126.53
54	9f	501	GTP	O6-C6-C5	-2.51	119.91	126.53
54	Bf	501	GTP	O6-C6-C5	-2.51	119.91	126.53
54	2h	501	GTP	C8-N7-C5	2.51	108.73	104.26
54	9b	501	GTP	C8-N7-C5	2.51	108.73	104.26
54	3f	501	GTP	C8-N7-C5	2.51	108.72	104.26
54	6c	501	GTP	O6-C6-C5	-2.51	119.92	126.53
54	4f	501	GTP	O6-C6-C5	-2.50	119.92	126.53
54	Ab	501	GTP	O6-C6-C5	-2.50	119.92	126.53
54	2h	501	GTP	O6-C6-C5	-2.50	119.92	126.53
54	1h	501	GTP	O6-C6-C5	-2.50	119.92	126.53
54	1b	501	GTP	C8-N7-C5	2.50	108.72	104.26
54	7b	501	GTP	O6-C6-C5	-2.50	119.92	126.53
54	5f	501	GTP	C8-N7-C5	2.50	108.72	104.26
54	Cc	501	GTP	O6-C6-C5	-2.50	119.93	126.53
54	2f	501	GTP	O6-C6-C5	-2.50	119.93	126.53
54	2d	501	GTP	C8-N7-C5	2.50	108.72	104.26
54	Cc	501	GTP	C8-N7-C5	2.50	108.71	104.26
53	Ba	501	GDP	C3'-C2'-C1'	2.50	106.19	101.46
53	2c	501	GDP	C3'-C2'-C1'	2.50	106.19	101.46
54	Bb	501	GTP	O6-C6-C5	-2.50	119.94	126.53
54	Bh	501	GTP	O6-C6-C5	-2.50	119.94	126.53
54	7h	501	GTP	O6-C6-C5	-2.49	119.95	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	Af	501	GTP	O6-C6-C5	-2.49	119.95	126.53
54	5f	501	GTP	O6-C6-C5	-2.49	119.95	126.53
54	Ae	501	GTP	O6-C6-C5	-2.49	119.95	126.53
54	1b	501	GTP	O6-C6-C5	-2.49	119.95	126.53
54	6e	501	GTP	O6-C6-C5	-2.49	119.95	126.53
54	Df	501	GTP	C8-N7-C5	2.49	108.70	104.26
54	5d	501	GTP	C8-N7-C5	2.49	108.70	104.26
54	6e	501	GTP	C8-N7-C5	2.49	108.70	104.26
54	9b	501	GTP	O6-C6-C5	-2.49	119.97	126.53
53	Ce	501	GDP	C3'-C2'-C1'	2.43	106.05	101.46
53	2g	501	GDP	C3'-C2'-C1'	2.40	106.01	101.46
53	1a	501	GDP	C3'-C2'-C1'	2.39	105.99	101.46
53	Be	501	GDP	C3'-C2'-C1'	2.39	105.98	101.46
53	1c	501	GDP	C3'-C2'-C1'	2.39	105.98	101.46
53	Bc	501	GDP	C3'-C2'-C1'	2.38	105.96	101.46
53	5c	502	GDP	C3'-C2'-C1'	2.37	105.95	101.46
53	De	501	GDP	C3'-C2'-C1'	2.34	105.90	101.46
53	7c	501	GDP	C3'-C2'-C1'	2.34	105.89	101.46
53	6c	502	GDP	C3'-C2'-C1'	2.33	105.88	101.46
53	Ca	501	GDP	C3'-C2'-C1'	2.33	105.87	101.46
53	1e	501	GDP	C3'-C2'-C1'	2.32	105.85	101.46
53	5g	501	GDP	C3'-C2'-C1'	2.32	105.85	101.46
53	Aa	501	GDP	C3'-C2'-C1'	2.32	105.85	101.46
53	Ac	501	GDP	C3'-C2'-C1'	2.32	105.84	101.46
53	Cc	502	GDP	C3'-C2'-C1'	2.32	105.84	101.46
53	8g	501	GDP	C3'-C2'-C1'	2.32	105.84	101.46
53	4g	501	GDP	C3'-C2'-C1'	2.31	105.84	101.46
53	Ag	501	GDP	C3'-C2'-C1'	2.31	105.83	101.46
53	9c	501	GDP	C3'-C2'-C1'	2.31	105.83	101.46
53	8a	501	GDP	C3'-C2'-C1'	2.30	105.82	101.46
53	9g	501	GDP	C3'-C2'-C1'	2.30	105.82	101.46
53	6e	502	GDP	C3'-C2'-C1'	2.30	105.81	101.46
53	2a	501	GDP	C3'-C2'-C1'	2.30	105.81	101.46
53	7e	502	GDP	C3'-C2'-C1'	2.29	105.80	101.46
53	Ae	502	GDP	C3'-C2'-C1'	2.29	105.80	101.46
53	6g	502	GDP	C3'-C2'-C1'	2.29	105.80	101.46
53	5e	501	GDP	C3'-C2'-C1'	2.29	105.80	101.46
53	9a	501	GDP	C3'-C2'-C1'	2.29	105.80	101.46
53	7g	501	GDP	C3'-C2'-C1'	2.29	105.80	101.46
53	3g	501	GDP	C3'-C2'-C1'	2.29	105.80	101.46
53	8e	501	GDP	C3'-C2'-C1'	2.29	105.79	101.46
53	1g	501	GDP	C3'-C2'-C1'	2.29	105.79	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	5a	501	GDP	C3'-C2'-C1'	2.29	105.79	101.46
53	2e	501	GDP	C3'-C2'-C1'	2.28	105.78	101.46
53	7a	501	GDP	C3'-C2'-C1'	2.28	105.78	101.46
53	3c	502	GDP	C3'-C2'-C1'	2.28	105.77	101.46
53	3e	501	GDP	C3'-C2'-C1'	2.28	105.77	101.46
53	6a	501	GDP	C3'-C2'-C1'	2.27	105.76	101.46
53	Dg	501	GDP	C3'-C2'-C1'	2.26	105.74	101.46
53	4e	501	GDP	C3'-C2'-C1'	2.26	105.74	101.46
53	Cg	501	GDP	C3'-C2'-C1'	2.26	105.73	101.46
53	4c	501	GDP	C3'-C2'-C1'	2.25	105.72	101.46
53	4a	501	GDP	C3'-C2'-C1'	2.24	105.71	101.46
53	3a	501	GDP	C3'-C2'-C1'	2.24	105.70	101.46
53	9e	502	GDP	C3'-C2'-C1'	2.24	105.70	101.46
53	Da	501	GDP	C3'-C2'-C1'	2.19	105.61	101.46
53	Dc	501	GDP	C3'-C2'-C1'	2.16	105.55	101.46
53	2c	501	GDP	O6-C6-C5	-2.14	120.89	126.53
53	3c	502	GDP	O6-C6-C5	-2.13	120.92	126.53
53	6g	502	GDP	O6-C6-C5	-2.13	120.92	126.53
53	7c	501	GDP	O6-C6-C5	-2.11	120.95	126.53
53	Dc	501	GDP	O6-C6-C5	-2.11	120.95	126.53
53	Cg	501	GDP	O6-C6-C5	-2.11	120.96	126.53
53	3g	501	GDP	O6-C6-C5	-2.11	120.97	126.53
53	7g	501	GDP	O6-C6-C5	-2.11	120.97	126.53
53	Bc	501	GDP	O6-C6-C5	-2.11	120.97	126.53
53	Bg	501	GDP	O6-C6-C5	-2.11	120.97	126.53
53	6c	502	GDP	O6-C6-C5	-2.11	120.97	126.53
53	8c	501	GDP	O6-C6-C5	-2.11	120.97	126.53
53	1g	501	GDP	O6-C6-C5	-2.11	120.98	126.53
53	Dg	501	GDP	O6-C6-C5	-2.10	120.98	126.53
53	5g	501	GDP	O6-C6-C5	-2.10	120.98	126.53
53	5c	502	GDP	O6-C6-C5	-2.10	120.98	126.53
53	2g	501	GDP	O6-C6-C5	-2.10	120.99	126.53
53	9g	501	GDP	O6-C6-C5	-2.10	120.99	126.53
53	4c	501	GDP	O6-C6-C5	-2.10	121.00	126.53
53	Ag	501	GDP	O6-C6-C5	-2.09	121.01	126.53
53	1c	501	GDP	O6-C6-C5	-2.09	121.01	126.53
53	4g	501	GDP	O6-C6-C5	-2.09	121.02	126.53
53	8g	501	GDP	O6-C6-C5	-2.09	121.02	126.53
53	9c	501	GDP	O6-C6-C5	-2.09	121.02	126.53
53	Cc	502	GDP	O6-C6-C5	-2.09	121.02	126.53
53	Ac	501	GDP	O6-C6-C5	-2.09	121.02	126.53
53	Da	501	GDP	O6-C6-C5	-2.06	121.09	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	1e	501	GDP	O6-C6-C5	-2.06	121.10	126.53
53	5a	501	GDP	O6-C6-C5	-2.05	121.12	126.53
53	9a	501	GDP	O6-C6-C5	-2.05	121.12	126.53
53	De	501	GDP	O6-C6-C5	-2.05	121.13	126.53
53	8a	501	GDP	O6-C6-C5	-2.05	121.13	126.53
53	4a	501	GDP	O6-C6-C5	-2.04	121.15	126.53
53	3a	501	GDP	O6-C6-C5	-2.04	121.15	126.53
53	9e	502	GDP	O6-C6-C5	-2.04	121.15	126.53
53	Ae	502	GDP	O6-C6-C5	-2.04	121.16	126.53
53	Ce	501	GDP	O6-C6-C5	-2.03	121.16	126.53
53	1a	501	GDP	O6-C6-C5	-2.03	121.17	126.53
53	Ca	501	GDP	O6-C6-C5	-2.03	121.17	126.53
53	2e	501	GDP	O6-C6-C5	-2.03	121.18	126.53
53	Be	501	GDP	O6-C6-C5	-2.02	121.19	126.53
53	6a	501	GDP	O6-C6-C5	-2.02	121.19	126.53
53	8e	501	GDP	O6-C6-C5	-2.02	121.19	126.53
53	4e	501	GDP	O6-C6-C5	-2.02	121.19	126.53
53	7a	501	GDP	O6-C6-C5	-2.02	121.19	126.53
53	Aa	501	GDP	O6-C6-C5	-2.02	121.20	126.53
53	2a	501	GDP	O6-C6-C5	-2.02	121.20	126.53
53	5e	501	GDP	O6-C6-C5	-2.02	121.20	126.53
53	3e	501	GDP	O6-C6-C5	-2.02	121.20	126.53
53	Ba	501	GDP	O6-C6-C5	-2.02	121.21	126.53
53	6e	502	GDP	O6-C6-C5	-2.01	121.22	126.53
53	7e	502	GDP	O6-C6-C5	-2.00	121.25	126.53

There are no chirality outliers.

All (260) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
53	1a	501	GDP	C5'-O5'-PA-O3A
53	1a	501	GDP	C5'-O5'-PA-O1A
53	1a	501	GDP	C5'-O5'-PA-O2A
53	1c	501	GDP	C5'-O5'-PA-O3A
53	1c	501	GDP	C5'-O5'-PA-O1A
53	1c	501	GDP	C5'-O5'-PA-O2A
53	1e	501	GDP	C5'-O5'-PA-O3A
53	1e	501	GDP	C5'-O5'-PA-O1A
53	1e	501	GDP	C5'-O5'-PA-O2A
53	1g	501	GDP	C5'-O5'-PA-O3A
53	1g	501	GDP	C5'-O5'-PA-O1A
53	1g	501	GDP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
53	2a	501	GDP	C5'-O5'-PA-O3A
53	2a	501	GDP	C5'-O5'-PA-O1A
53	2a	501	GDP	C5'-O5'-PA-O2A
53	2c	501	GDP	C5'-O5'-PA-O3A
53	2c	501	GDP	C5'-O5'-PA-O1A
53	2c	501	GDP	C5'-O5'-PA-O2A
53	2e	501	GDP	C5'-O5'-PA-O3A
53	2e	501	GDP	C5'-O5'-PA-O1A
53	2e	501	GDP	C5'-O5'-PA-O2A
53	2g	501	GDP	C5'-O5'-PA-O3A
53	2g	501	GDP	C5'-O5'-PA-O1A
53	2g	501	GDP	C5'-O5'-PA-O2A
53	3a	501	GDP	C5'-O5'-PA-O3A
53	3a	501	GDP	C5'-O5'-PA-O1A
53	3a	501	GDP	C5'-O5'-PA-O2A
53	3c	502	GDP	C5'-O5'-PA-O3A
53	3c	502	GDP	C5'-O5'-PA-O1A
53	3c	502	GDP	C5'-O5'-PA-O2A
53	3e	501	GDP	C5'-O5'-PA-O3A
53	3e	501	GDP	C5'-O5'-PA-O1A
53	3e	501	GDP	C5'-O5'-PA-O2A
53	3g	501	GDP	C5'-O5'-PA-O3A
53	3g	501	GDP	C5'-O5'-PA-O1A
53	3g	501	GDP	C5'-O5'-PA-O2A
53	4a	501	GDP	C5'-O5'-PA-O3A
53	4a	501	GDP	C5'-O5'-PA-O1A
53	4a	501	GDP	C5'-O5'-PA-O2A
53	4c	501	GDP	C5'-O5'-PA-O3A
53	4c	501	GDP	C5'-O5'-PA-O1A
53	4c	501	GDP	C5'-O5'-PA-O2A
53	4e	501	GDP	C5'-O5'-PA-O3A
53	4e	501	GDP	C5'-O5'-PA-O1A
53	4e	501	GDP	C5'-O5'-PA-O2A
53	4g	501	GDP	C5'-O5'-PA-O3A
53	4g	501	GDP	C5'-O5'-PA-O1A
53	4g	501	GDP	C5'-O5'-PA-O2A
53	5a	501	GDP	C5'-O5'-PA-O3A
53	5a	501	GDP	C5'-O5'-PA-O1A
53	5a	501	GDP	C5'-O5'-PA-O2A
53	5c	502	GDP	C5'-O5'-PA-O3A
53	5c	502	GDP	C5'-O5'-PA-O1A
53	5e	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
53	5e	501	GDP	C5'-O5'-PA-O1A
53	5e	501	GDP	C5'-O5'-PA-O2A
53	5g	501	GDP	C5'-O5'-PA-O3A
53	5g	501	GDP	C5'-O5'-PA-O1A
53	5g	501	GDP	C5'-O5'-PA-O2A
53	6a	501	GDP	C5'-O5'-PA-O3A
53	6a	501	GDP	C5'-O5'-PA-O1A
53	6a	501	GDP	C5'-O5'-PA-O2A
53	6c	502	GDP	C5'-O5'-PA-O3A
53	6c	502	GDP	C5'-O5'-PA-O1A
53	6c	502	GDP	C5'-O5'-PA-O2A
53	6e	502	GDP	C5'-O5'-PA-O3A
53	6e	502	GDP	C5'-O5'-PA-O1A
53	6e	502	GDP	C5'-O5'-PA-O2A
53	6g	502	GDP	C5'-O5'-PA-O3A
53	6g	502	GDP	C5'-O5'-PA-O1A
53	6g	502	GDP	C5'-O5'-PA-O2A
53	7a	501	GDP	C5'-O5'-PA-O3A
53	7a	501	GDP	C5'-O5'-PA-O1A
53	7a	501	GDP	C5'-O5'-PA-O2A
53	7c	501	GDP	C5'-O5'-PA-O3A
53	7c	501	GDP	C5'-O5'-PA-O1A
53	7e	502	GDP	C5'-O5'-PA-O3A
53	7e	502	GDP	C5'-O5'-PA-O1A
53	7e	502	GDP	C5'-O5'-PA-O2A
53	7g	501	GDP	C5'-O5'-PA-O3A
53	7g	501	GDP	C5'-O5'-PA-O1A
53	7g	501	GDP	C5'-O5'-PA-O2A
53	8a	501	GDP	C5'-O5'-PA-O3A
53	8a	501	GDP	C5'-O5'-PA-O1A
53	8a	501	GDP	C5'-O5'-PA-O2A
53	8c	501	GDP	C5'-O5'-PA-O3A
53	8c	501	GDP	C5'-O5'-PA-O1A
53	8c	501	GDP	C5'-O5'-PA-O2A
53	8e	501	GDP	C5'-O5'-PA-O3A
53	8e	501	GDP	C5'-O5'-PA-O1A
53	8e	501	GDP	C5'-O5'-PA-O2A
53	8g	501	GDP	C5'-O5'-PA-O3A
53	8g	501	GDP	C5'-O5'-PA-O1A
53	8g	501	GDP	C5'-O5'-PA-O2A
53	9a	501	GDP	C5'-O5'-PA-O3A
53	9a	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
53	9a	501	GDP	C5'-O5'-PA-O2A
53	9c	501	GDP	C5'-O5'-PA-O3A
53	9c	501	GDP	C5'-O5'-PA-O1A
53	9c	501	GDP	C5'-O5'-PA-O2A
53	9e	502	GDP	C5'-O5'-PA-O3A
53	9e	502	GDP	C5'-O5'-PA-O1A
53	9e	502	GDP	C5'-O5'-PA-O2A
53	9g	501	GDP	C5'-O5'-PA-O3A
53	9g	501	GDP	C5'-O5'-PA-O1A
53	9g	501	GDP	C5'-O5'-PA-O2A
53	Aa	501	GDP	C5'-O5'-PA-O3A
53	Aa	501	GDP	C5'-O5'-PA-O1A
53	Aa	501	GDP	C5'-O5'-PA-O2A
53	Ac	501	GDP	C5'-O5'-PA-O3A
53	Ac	501	GDP	C5'-O5'-PA-O1A
53	Ac	501	GDP	C5'-O5'-PA-O2A
53	Ae	502	GDP	C5'-O5'-PA-O3A
53	Ae	502	GDP	C5'-O5'-PA-O1A
53	Ae	502	GDP	C5'-O5'-PA-O2A
53	Ag	501	GDP	C5'-O5'-PA-O3A
53	Ag	501	GDP	C5'-O5'-PA-O1A
53	Ag	501	GDP	C5'-O5'-PA-O2A
53	Ba	501	GDP	C5'-O5'-PA-O3A
53	Ba	501	GDP	C5'-O5'-PA-O1A
53	Ba	501	GDP	C5'-O5'-PA-O2A
53	Bc	501	GDP	C5'-O5'-PA-O3A
53	Bc	501	GDP	C5'-O5'-PA-O1A
53	Bc	501	GDP	C5'-O5'-PA-O2A
53	Be	501	GDP	C5'-O5'-PA-O3A
53	Be	501	GDP	C5'-O5'-PA-O1A
53	Be	501	GDP	C5'-O5'-PA-O2A
53	Bg	501	GDP	C5'-O5'-PA-O3A
53	Bg	501	GDP	C5'-O5'-PA-O1A
53	Bg	501	GDP	C5'-O5'-PA-O2A
53	Ca	501	GDP	C5'-O5'-PA-O3A
53	Ca	501	GDP	C5'-O5'-PA-O1A
53	Ca	501	GDP	C5'-O5'-PA-O2A
53	Cc	502	GDP	C5'-O5'-PA-O3A
53	Cc	502	GDP	C5'-O5'-PA-O1A
53	Cc	502	GDP	C5'-O5'-PA-O2A
53	Ce	501	GDP	C5'-O5'-PA-O3A
53	Ce	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
53	Ce	501	GDP	C5'-O5'-PA-O2A
53	Cg	501	GDP	C5'-O5'-PA-O3A
53	Cg	501	GDP	C5'-O5'-PA-O1A
53	Cg	501	GDP	C5'-O5'-PA-O2A
53	Da	501	GDP	C5'-O5'-PA-O3A
53	Da	501	GDP	C5'-O5'-PA-O1A
53	Da	501	GDP	C5'-O5'-PA-O2A
53	Dc	501	GDP	C5'-O5'-PA-O3A
53	Dc	501	GDP	C5'-O5'-PA-O1A
53	Dc	501	GDP	C5'-O5'-PA-O2A
53	De	501	GDP	C5'-O5'-PA-O3A
53	De	501	GDP	C5'-O5'-PA-O1A
53	De	501	GDP	C5'-O5'-PA-O2A
53	Dg	501	GDP	C5'-O5'-PA-O3A
53	Dg	501	GDP	C5'-O5'-PA-O1A
53	Dg	501	GDP	C5'-O5'-PA-O2A
54	1b	501	GTP	O4'-C4'-C5'-O5'
54	1d	501	GTP	O4'-C4'-C5'-O5'
54	1f	501	GTP	O4'-C4'-C5'-O5'
54	1h	501	GTP	O4'-C4'-C5'-O5'
54	2b	501	GTP	O4'-C4'-C5'-O5'
54	2d	501	GTP	O4'-C4'-C5'-O5'
54	2f	501	GTP	O4'-C4'-C5'-O5'
54	2h	501	GTP	O4'-C4'-C5'-O5'
54	3c	501	GTP	O4'-C4'-C5'-O5'
54	3d	501	GTP	O4'-C4'-C5'-O5'
54	3f	501	GTP	O4'-C4'-C5'-O5'
54	3h	501	GTP	O4'-C4'-C5'-O5'
54	4b	501	GTP	O4'-C4'-C5'-O5'
54	4d	501	GTP	O4'-C4'-C5'-O5'
54	4f	501	GTP	O4'-C4'-C5'-O5'
54	4h	501	GTP	O4'-C4'-C5'-O5'
54	5c	501	GTP	O4'-C4'-C5'-O5'
54	5d	501	GTP	O4'-C4'-C5'-O5'
54	5f	501	GTP	O4'-C4'-C5'-O5'
54	5h	501	GTP	O4'-C4'-C5'-O5'
54	6c	501	GTP	O4'-C4'-C5'-O5'
54	6e	501	GTP	O4'-C4'-C5'-O5'
54	6g	501	GTP	O4'-C4'-C5'-O5'
54	6h	501	GTP	O4'-C4'-C5'-O5'
54	7b	501	GTP	O4'-C4'-C5'-O5'
54	7e	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
54	7f	501	GTP	O4'-C4'-C5'-O5'
54	7h	501	GTP	O4'-C4'-C5'-O5'
54	8b	501	GTP	O4'-C4'-C5'-O5'
54	8d	501	GTP	O4'-C4'-C5'-O5'
54	8f	501	GTP	O4'-C4'-C5'-O5'
54	8h	501	GTP	O4'-C4'-C5'-O5'
54	9b	501	GTP	O4'-C4'-C5'-O5'
54	9e	501	GTP	O4'-C4'-C5'-O5'
54	9f	501	GTP	O4'-C4'-C5'-O5'
54	9h	501	GTP	O4'-C4'-C5'-O5'
54	Ab	501	GTP	O4'-C4'-C5'-O5'
54	Ae	501	GTP	O4'-C4'-C5'-O5'
54	Af	501	GTP	O4'-C4'-C5'-O5'
54	Ah	501	GTP	O4'-C4'-C5'-O5'
54	Bb	501	GTP	O4'-C4'-C5'-O5'
54	Bd	501	GTP	O4'-C4'-C5'-O5'
54	Bf	501	GTP	O4'-C4'-C5'-O5'
54	Bh	501	GTP	O4'-C4'-C5'-O5'
54	Cc	501	GTP	O4'-C4'-C5'-O5'
54	Cd	501	GTP	O4'-C4'-C5'-O5'
54	Cf	501	GTP	O4'-C4'-C5'-O5'
54	Ch	501	GTP	O4'-C4'-C5'-O5'
54	Db	501	GTP	O4'-C4'-C5'-O5'
54	Dd	501	GTP	O4'-C4'-C5'-O5'
54	Df	501	GTP	O4'-C4'-C5'-O5'
54	Dh	501	GTP	O4'-C4'-C5'-O5'
54	1b	501	GTP	C3'-C4'-C5'-O5'
54	1d	501	GTP	C3'-C4'-C5'-O5'
54	1f	501	GTP	C3'-C4'-C5'-O5'
54	1h	501	GTP	C3'-C4'-C5'-O5'
54	2b	501	GTP	C3'-C4'-C5'-O5'
54	2d	501	GTP	C3'-C4'-C5'-O5'
54	2f	501	GTP	C3'-C4'-C5'-O5'
54	2h	501	GTP	C3'-C4'-C5'-O5'
54	3c	501	GTP	C3'-C4'-C5'-O5'
54	3d	501	GTP	C3'-C4'-C5'-O5'
54	3f	501	GTP	C3'-C4'-C5'-O5'
54	3h	501	GTP	C3'-C4'-C5'-O5'
54	4b	501	GTP	C3'-C4'-C5'-O5'
54	4d	501	GTP	C3'-C4'-C5'-O5'
54	4f	501	GTP	C3'-C4'-C5'-O5'
54	4h	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
54	5c	501	GTP	C3'-C4'-C5'-O5'
54	5d	501	GTP	C3'-C4'-C5'-O5'
54	5f	501	GTP	C3'-C4'-C5'-O5'
54	5h	501	GTP	C3'-C4'-C5'-O5'
54	6c	501	GTP	C3'-C4'-C5'-O5'
54	6e	501	GTP	C3'-C4'-C5'-O5'
54	6g	501	GTP	C3'-C4'-C5'-O5'
54	6h	501	GTP	C3'-C4'-C5'-O5'
54	7b	501	GTP	C3'-C4'-C5'-O5'
54	7e	501	GTP	C3'-C4'-C5'-O5'
54	7f	501	GTP	C3'-C4'-C5'-O5'
54	7h	501	GTP	C3'-C4'-C5'-O5'
54	8b	501	GTP	C3'-C4'-C5'-O5'
54	8d	501	GTP	C3'-C4'-C5'-O5'
54	8f	501	GTP	C3'-C4'-C5'-O5'
54	8h	501	GTP	C3'-C4'-C5'-O5'
54	9b	501	GTP	C3'-C4'-C5'-O5'
54	9e	501	GTP	C3'-C4'-C5'-O5'
54	9f	501	GTP	C3'-C4'-C5'-O5'
54	9h	501	GTP	C3'-C4'-C5'-O5'
54	Ab	501	GTP	C3'-C4'-C5'-O5'
54	Ae	501	GTP	C3'-C4'-C5'-O5'
54	Af	501	GTP	C3'-C4'-C5'-O5'
54	Ah	501	GTP	C3'-C4'-C5'-O5'
54	Bb	501	GTP	C3'-C4'-C5'-O5'
54	Bd	501	GTP	C3'-C4'-C5'-O5'
54	Bf	501	GTP	C3'-C4'-C5'-O5'
54	Bh	501	GTP	C3'-C4'-C5'-O5'
54	Cc	501	GTP	C3'-C4'-C5'-O5'
54	Cd	501	GTP	C3'-C4'-C5'-O5'
54	Cf	501	GTP	C3'-C4'-C5'-O5'
54	Ch	501	GTP	C3'-C4'-C5'-O5'
54	Db	501	GTP	C3'-C4'-C5'-O5'
54	Dd	501	GTP	C3'-C4'-C5'-O5'
54	Df	501	GTP	C3'-C4'-C5'-O5'
54	Dh	501	GTP	C3'-C4'-C5'-O5'
53	5c	502	GDP	C5'-O5'-PA-O2A
53	7c	501	GDP	C5'-O5'-PA-O2A

There are no ring outliers.

68 monomers are involved in 264 short contacts:

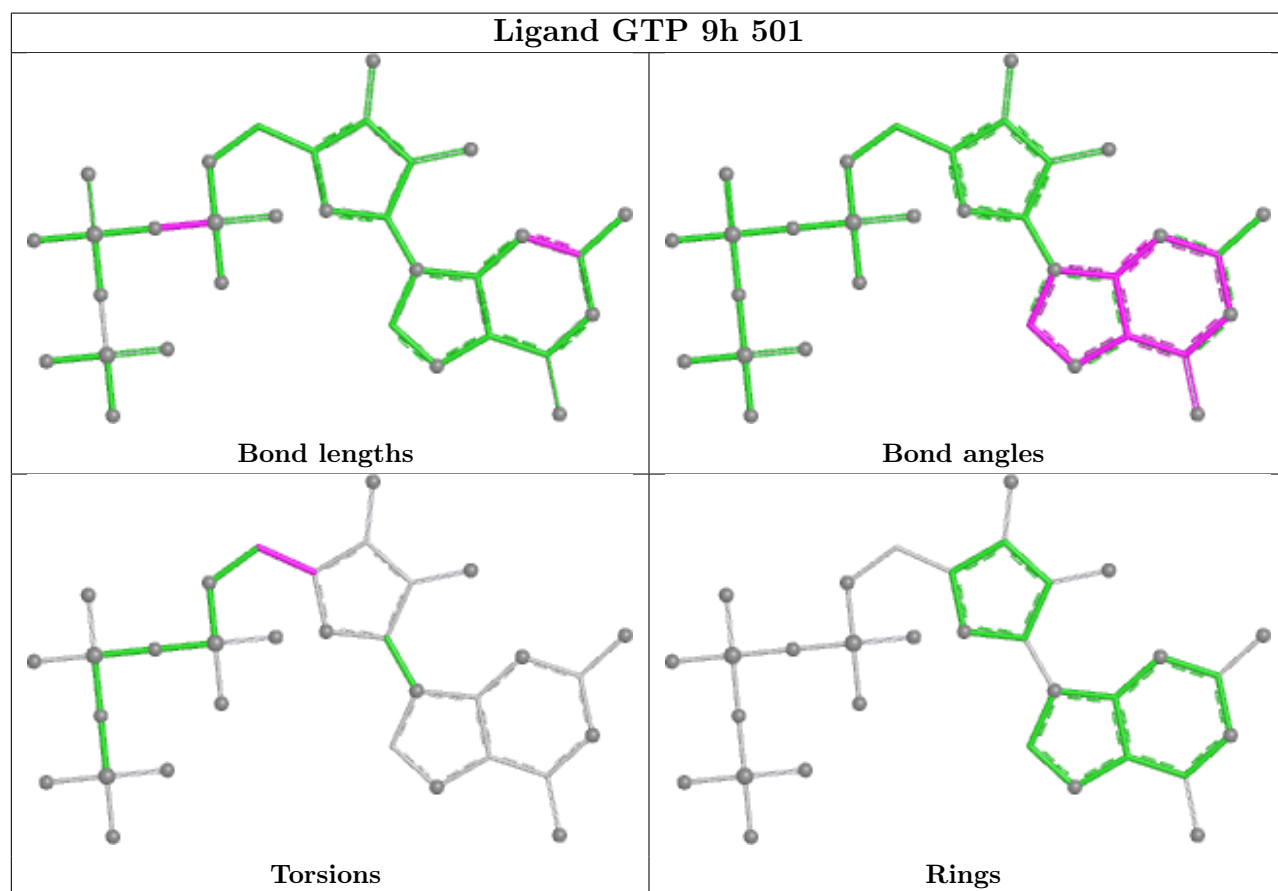
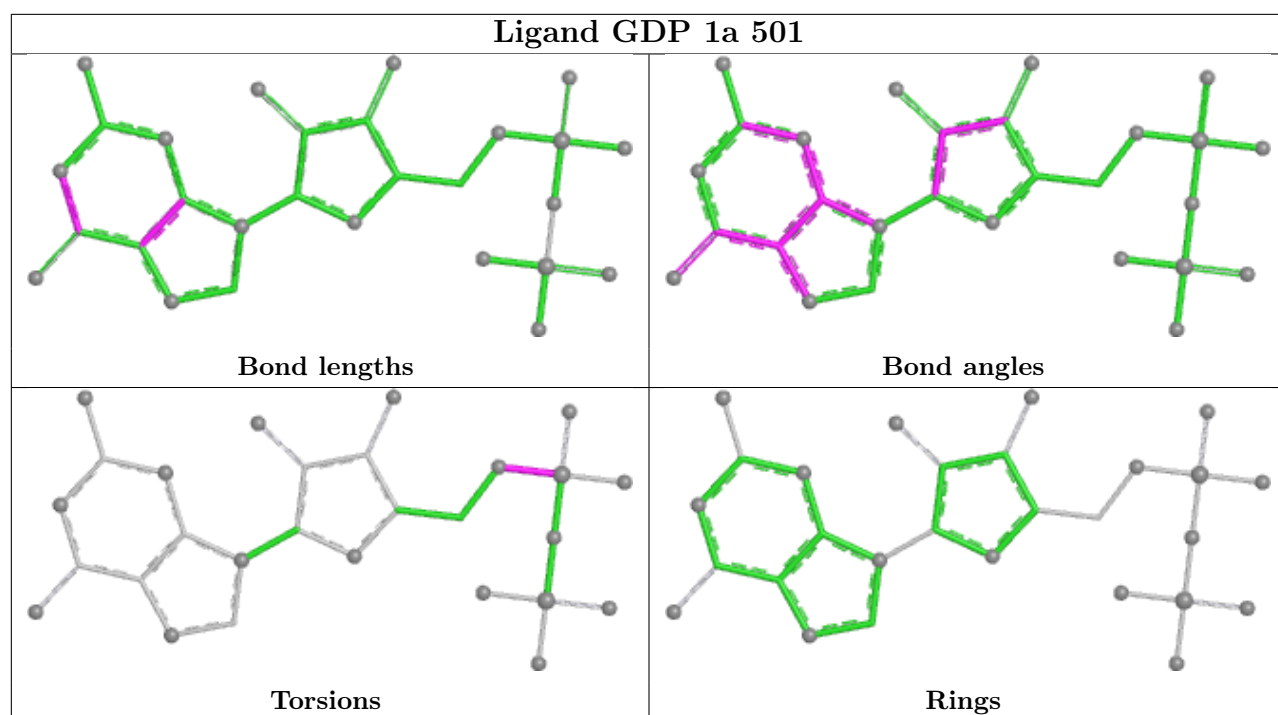
Mol	Chain	Res	Type	Clashes	Symm-Clashes
53	1a	501	GDP	2	0
54	9h	501	GTP	3	0
54	1f	501	GTP	4	0
54	Db	501	GTP	5	0
53	2c	501	GDP	1	0
53	Ba	501	GDP	1	0
54	7h	501	GTP	4	0
53	6e	502	GDP	1	0
54	9f	501	GTP	7	0
54	5c	501	GTP	4	0
54	7e	501	GTP	5	0
54	Ah	501	GTP	4	0
54	8f	501	GTP	5	0
54	Bd	501	GTP	5	0
53	Dg	501	GDP	1	0
53	Cc	502	GDP	1	0
53	8c	501	GDP	1	0
54	2d	501	GTP	6	0
54	6e	501	GTP	4	0
53	1e	501	GDP	3	0
54	9e	501	GTP	4	0
54	Dh	501	GTP	4	0
54	8d	501	GTP	4	0
54	2b	501	GTP	7	0
54	8h	501	GTP	5	0
53	Be	501	GDP	1	0
54	3d	501	GTP	3	0
54	Af	501	GTP	7	0
54	4b	501	GTP	4	0
54	Bh	501	GTP	5	0
54	Ab	501	GTP	6	0
54	5f	501	GTP	5	0
53	3a	501	GDP	1	0
54	3h	501	GTP	3	0
53	7e	502	GDP	2	0
54	Bb	501	GTP	6	0
54	4f	501	GTP	5	0
54	6h	501	GTP	4	0
54	Ae	501	GTP	4	0
53	2a	501	GDP	1	0
53	3e	501	GDP	1	0
54	Df	501	GTP	5	0
54	8b	501	GTP	4	0

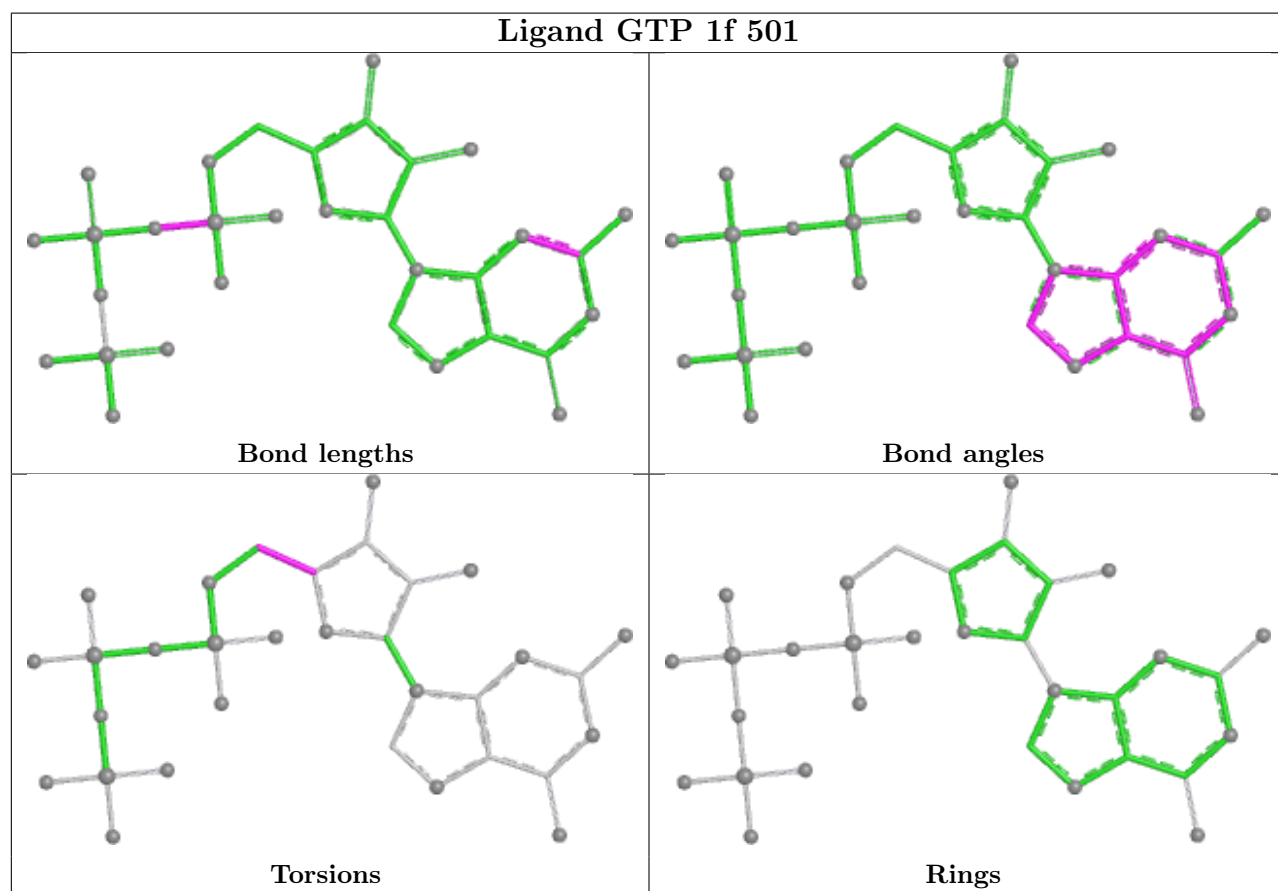
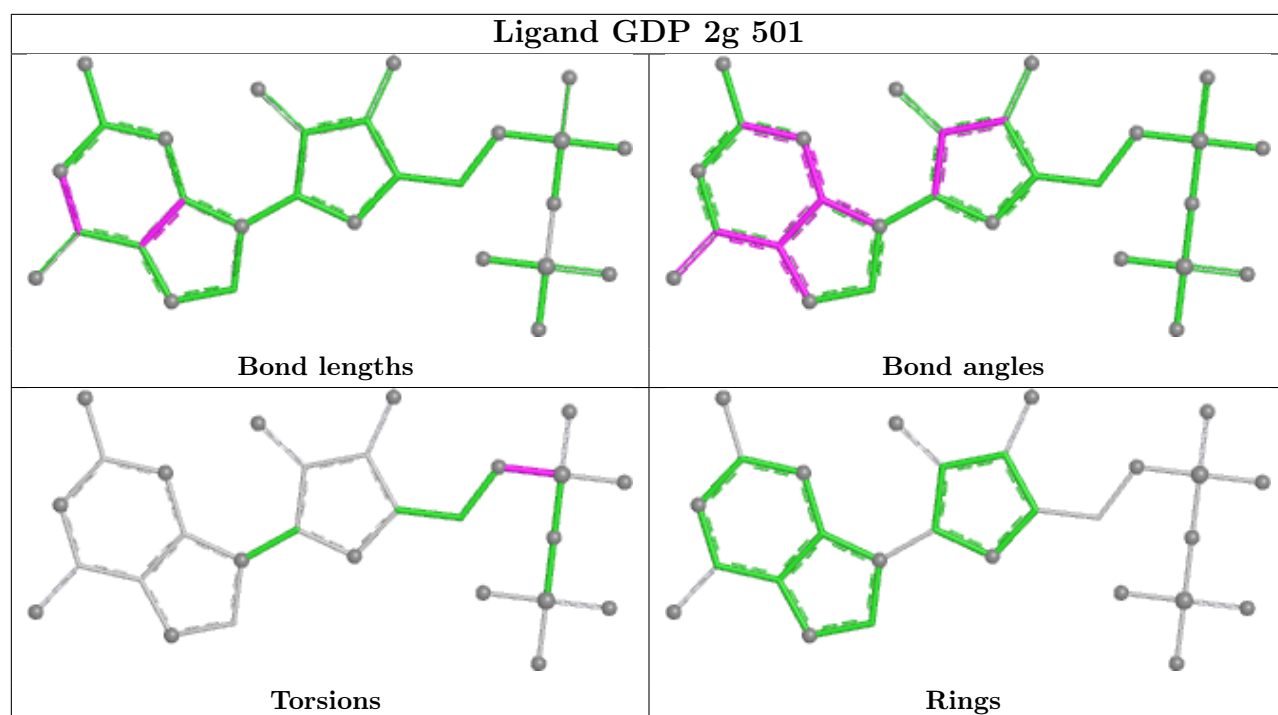
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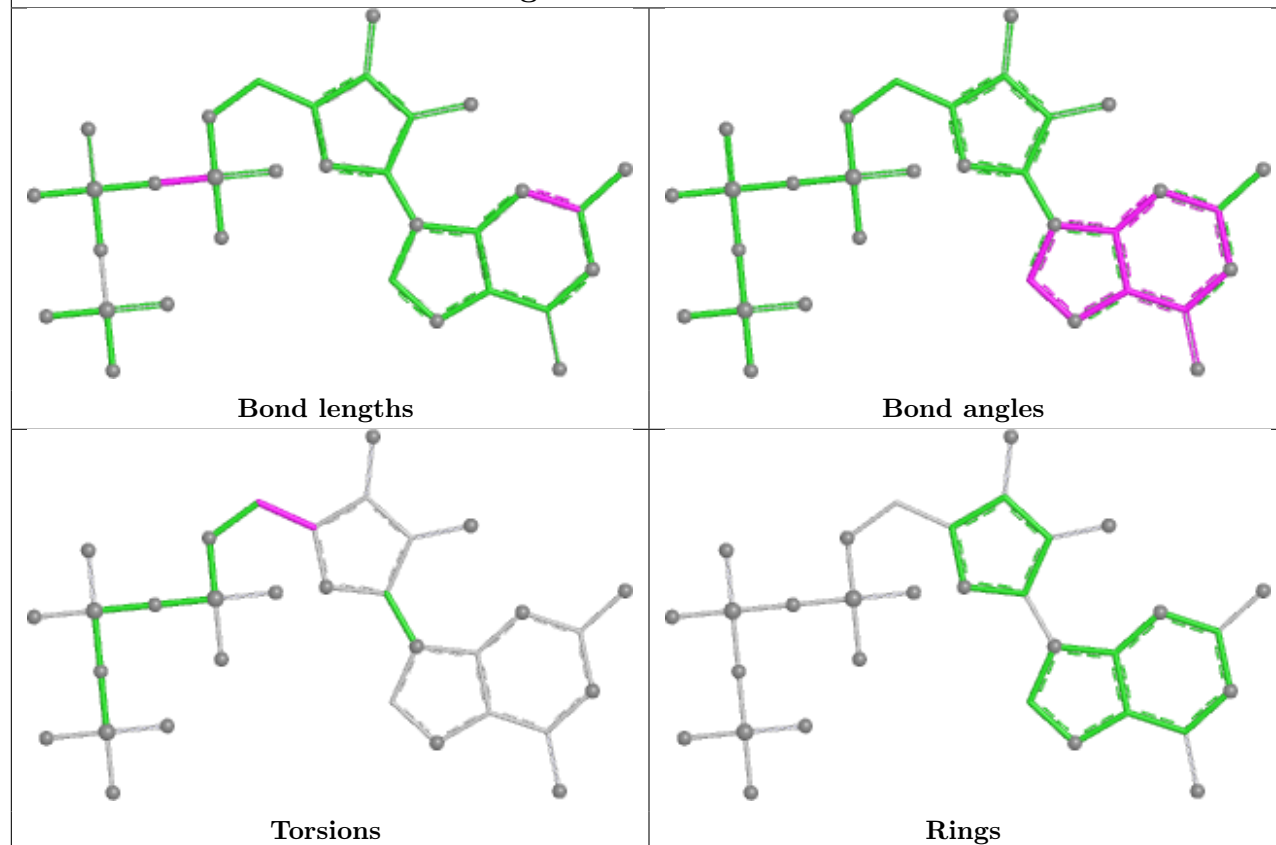
Mol	Chain	Res	Type	Clashes	Symm-Clashes
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54	6c	501	GTP	6	0
54	1b	501	GTP	5	0
54	1d	501	GTP	4	0
54	4d	501	GTP	3	0
53	7a	501	GDP	1	0
54	5h	501	GTP	5	0
53	Bg	501	GDP	1	0
54	7b	501	GTP	5	0
54	Cf	501	GTP	6	0
54	Ch	501	GTP	5	0
54	7f	501	GTP	5	0
54	6g	501	GTP	5	0
54	Cd	501	GTP	5	0
54	1h	501	GTP	3	0
54	9b	501	GTP	5	0
54	Dd	501	GTP	5	0
54	3c	501	GTP	5	0
54	Bf	501	GTP	6	0
54	2h	501	GTP	4	0
54	5d	501	GTP	3	0
54	Cc	501	GTP	6	0
54	3f	501	GTP	4	0
53	4a	501	GDP	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

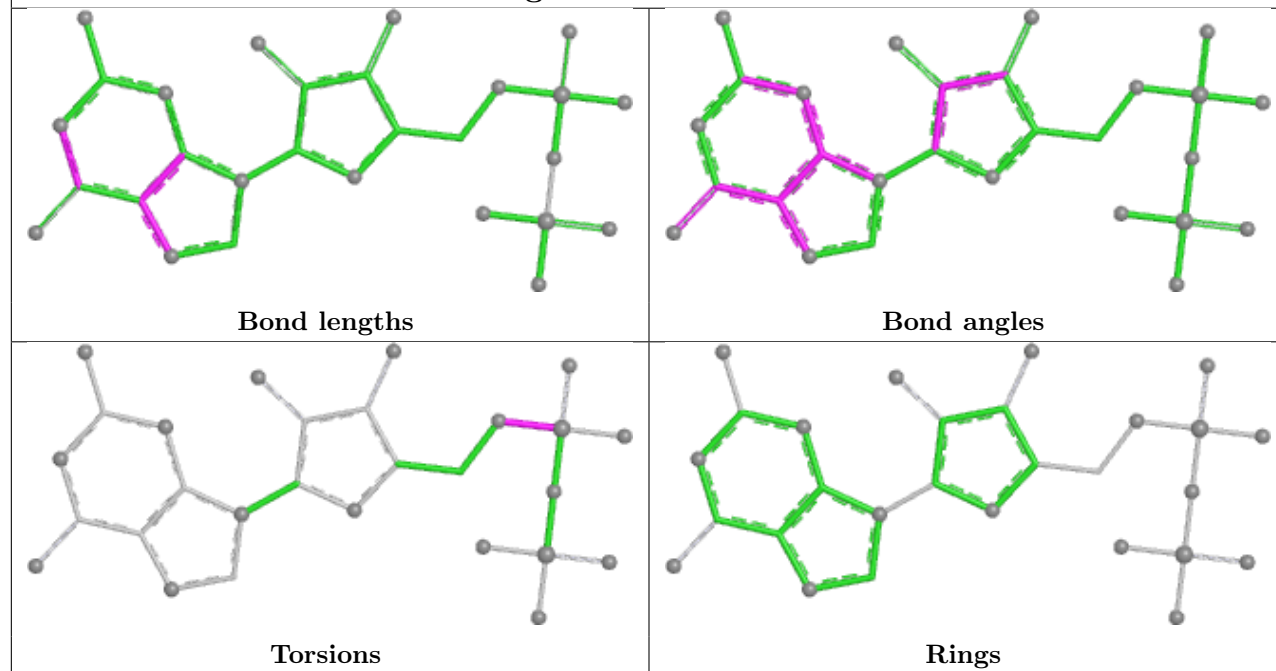


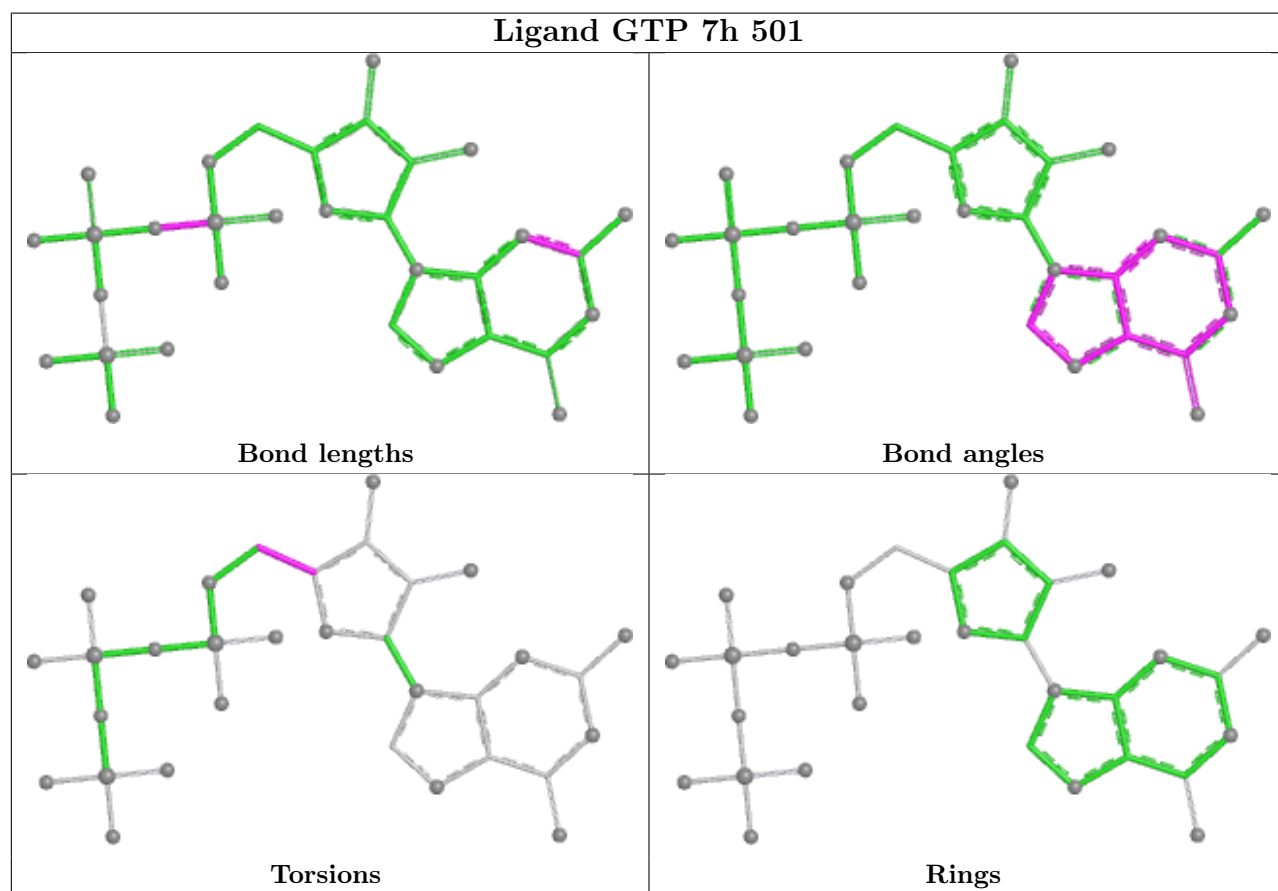
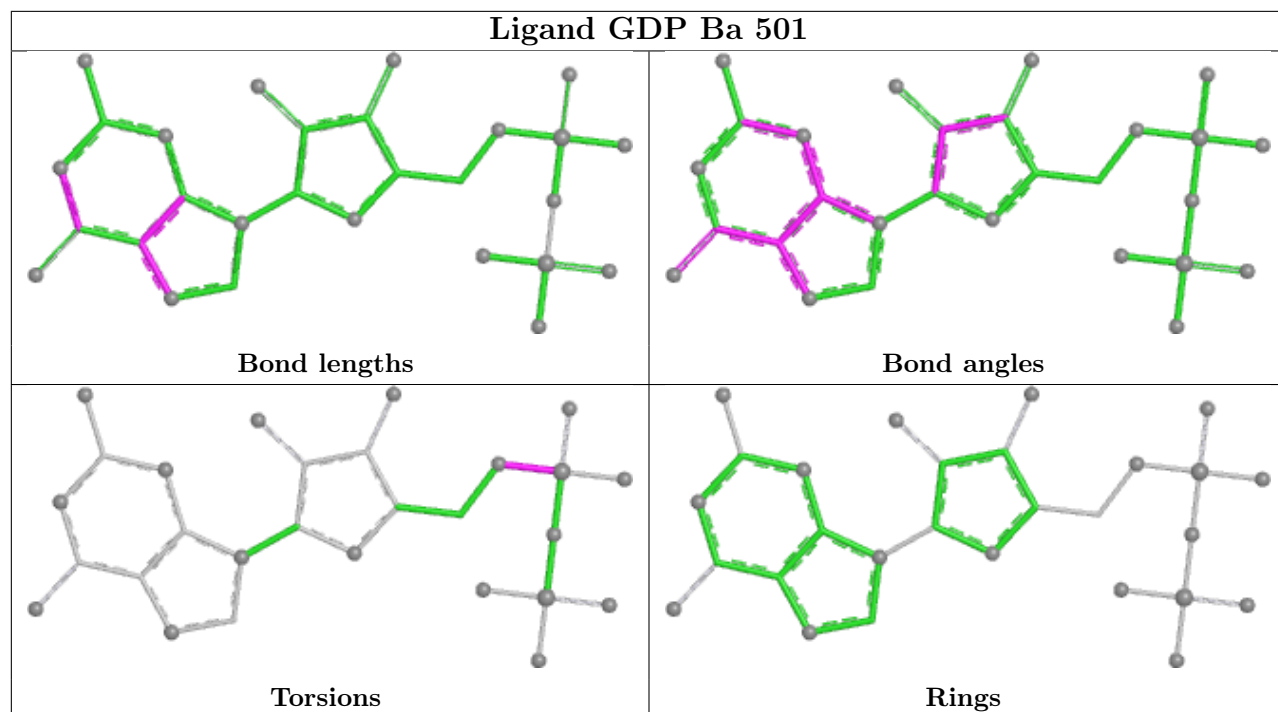


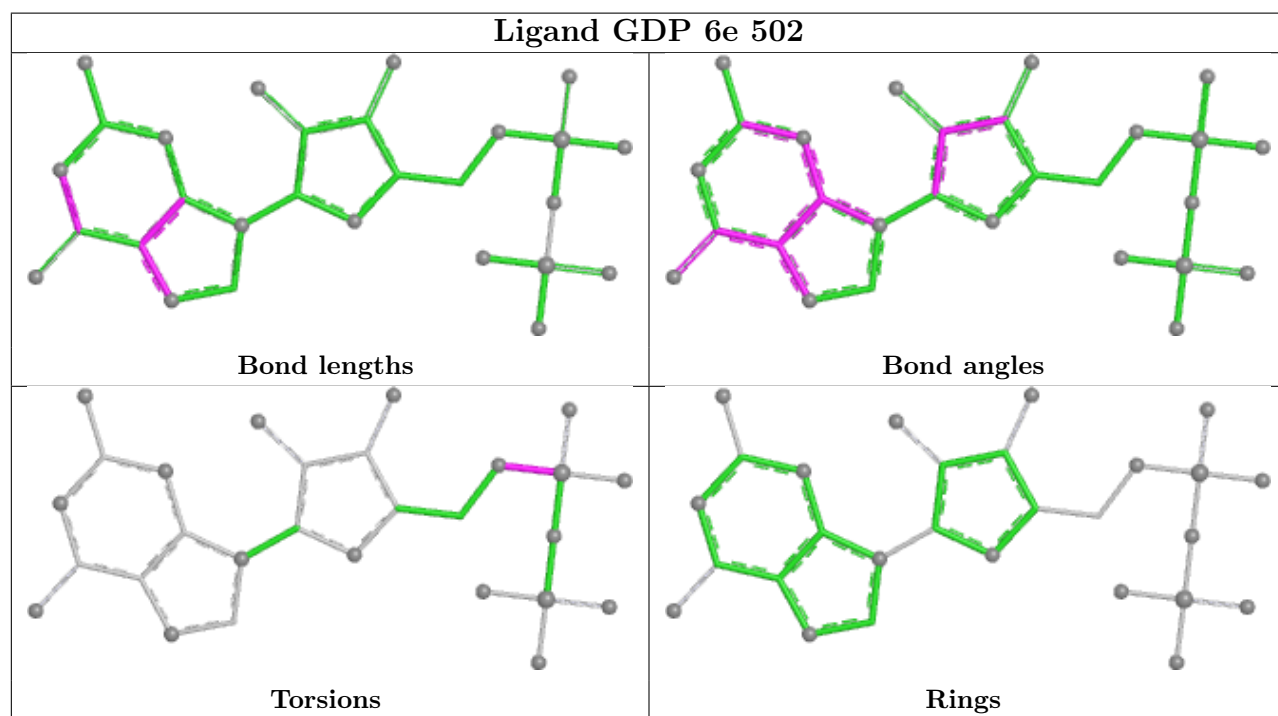
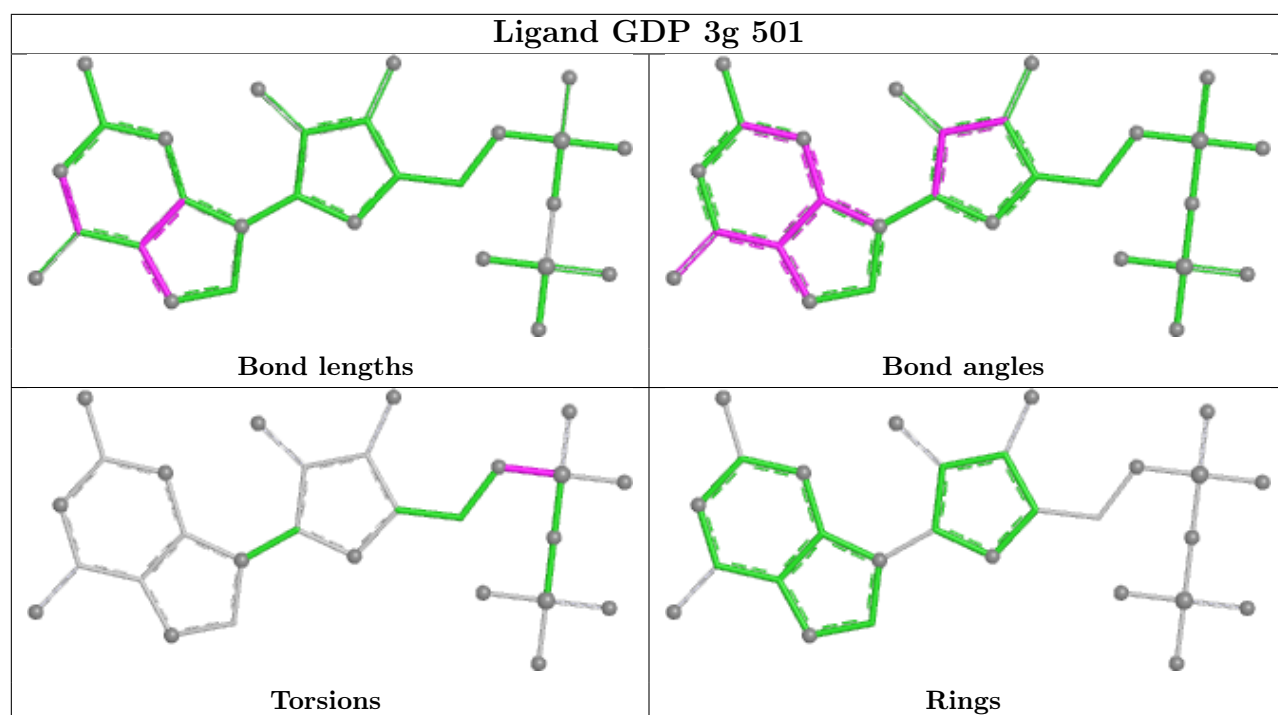
Ligand GTP Db 501

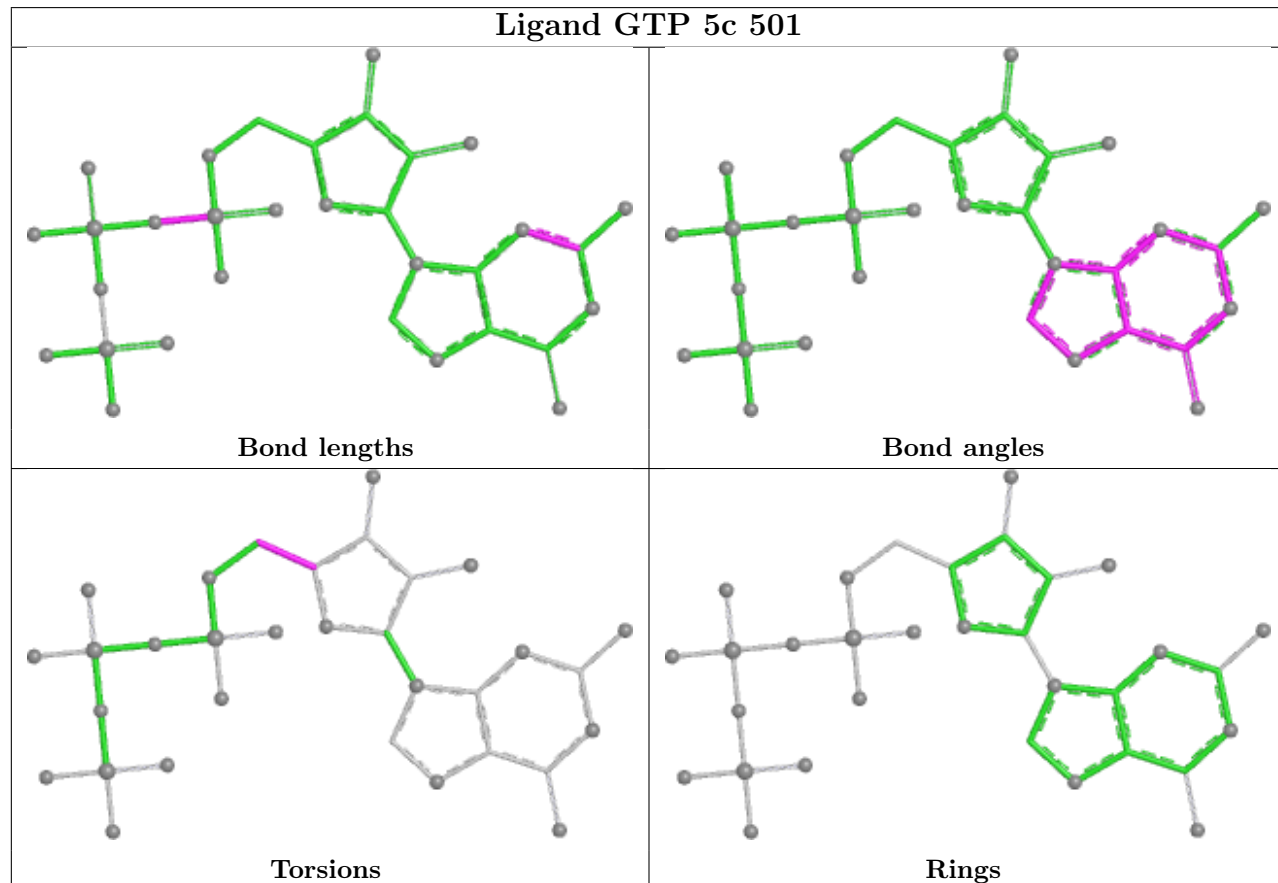
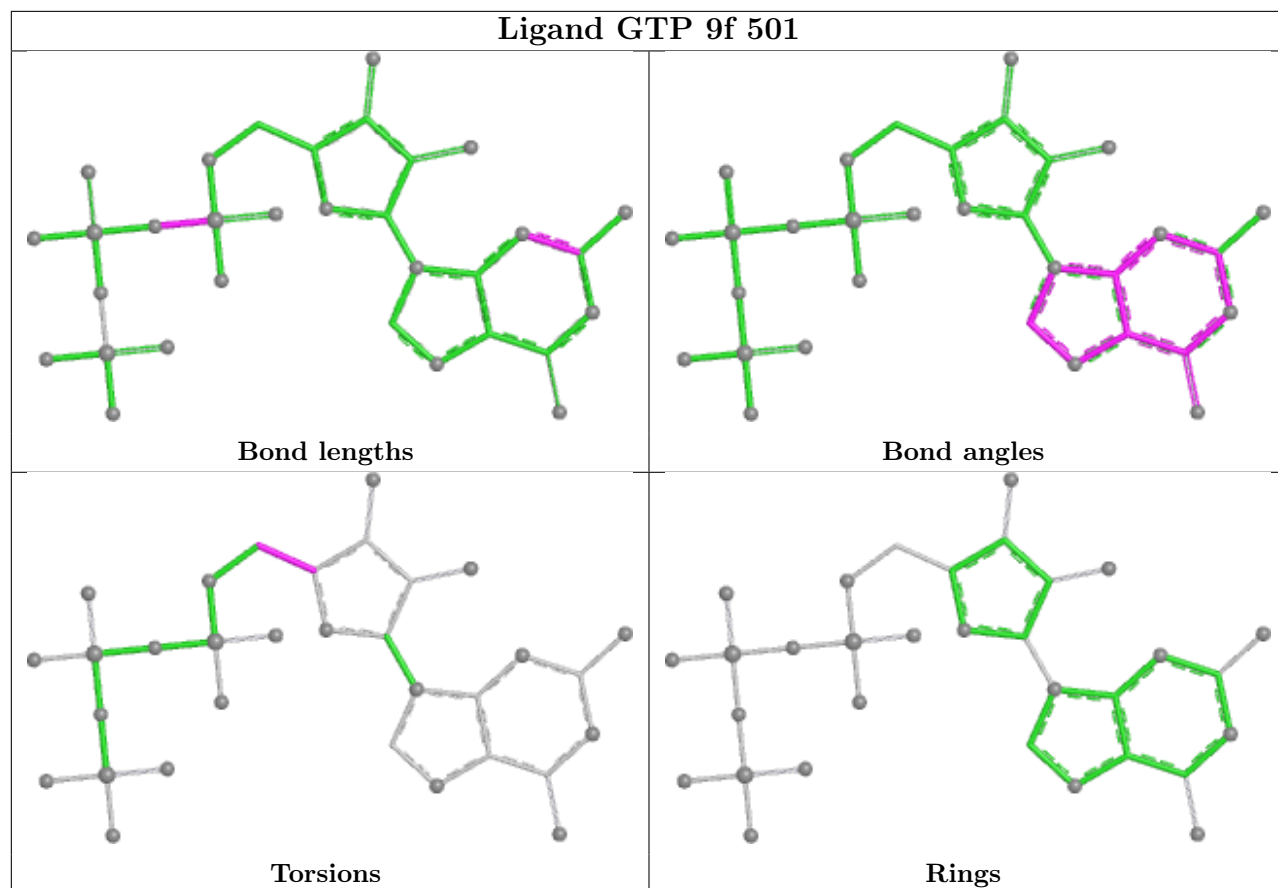


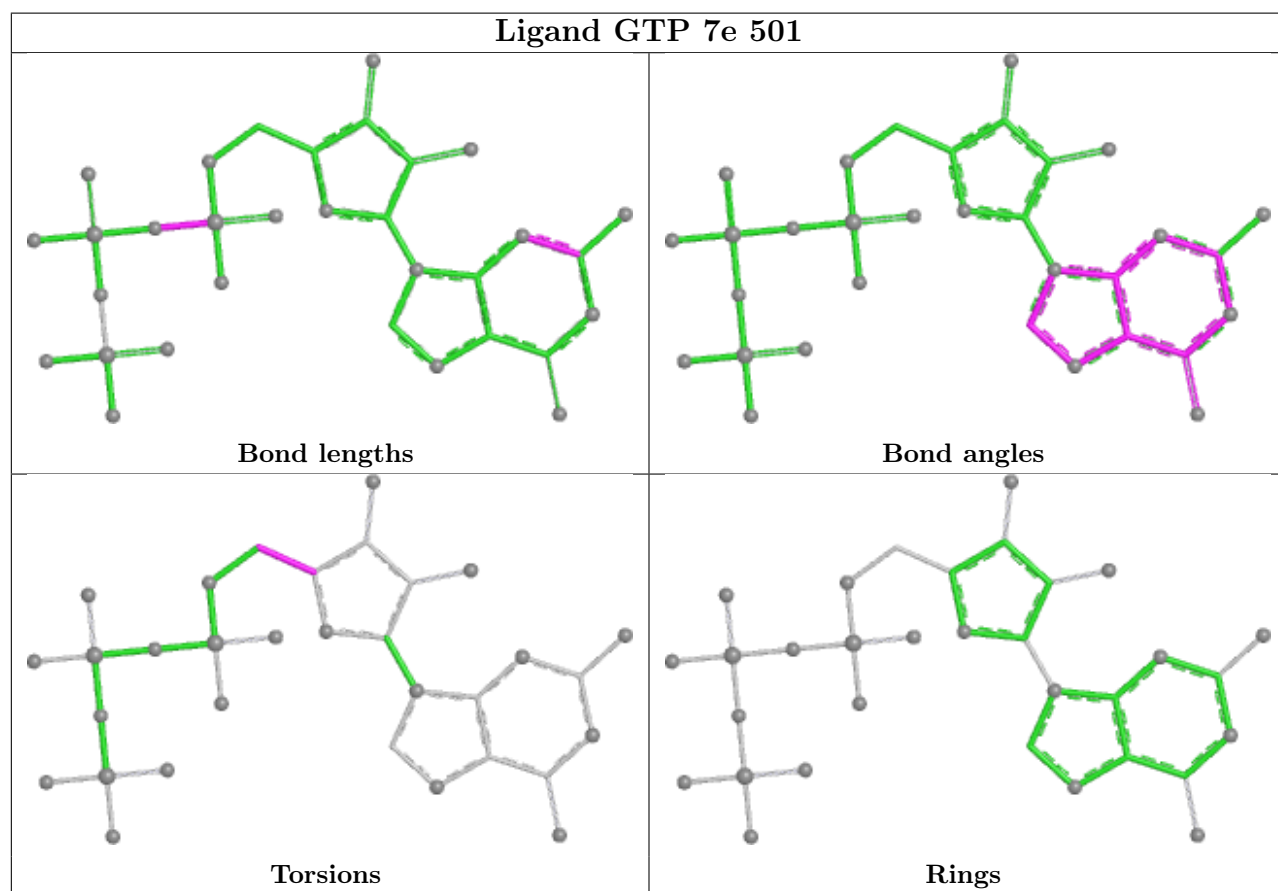
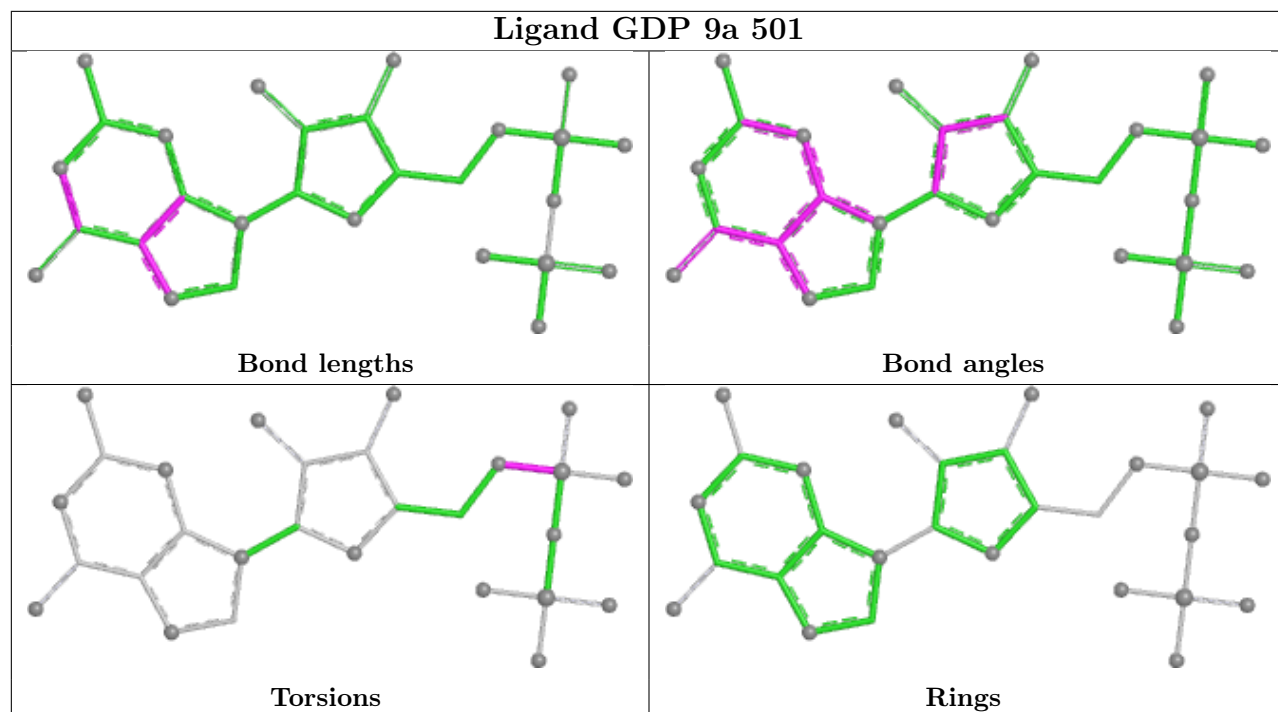
Ligand GDP 2c 501



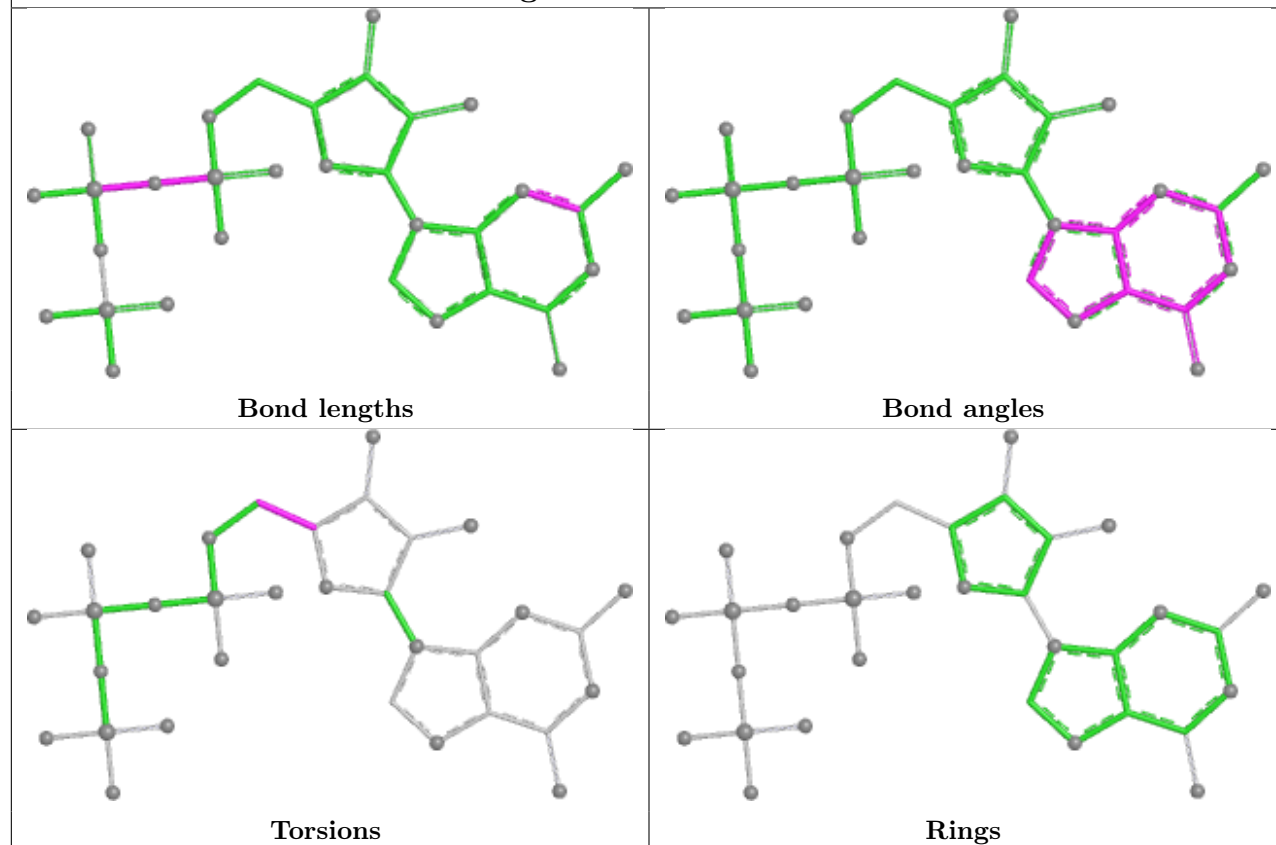




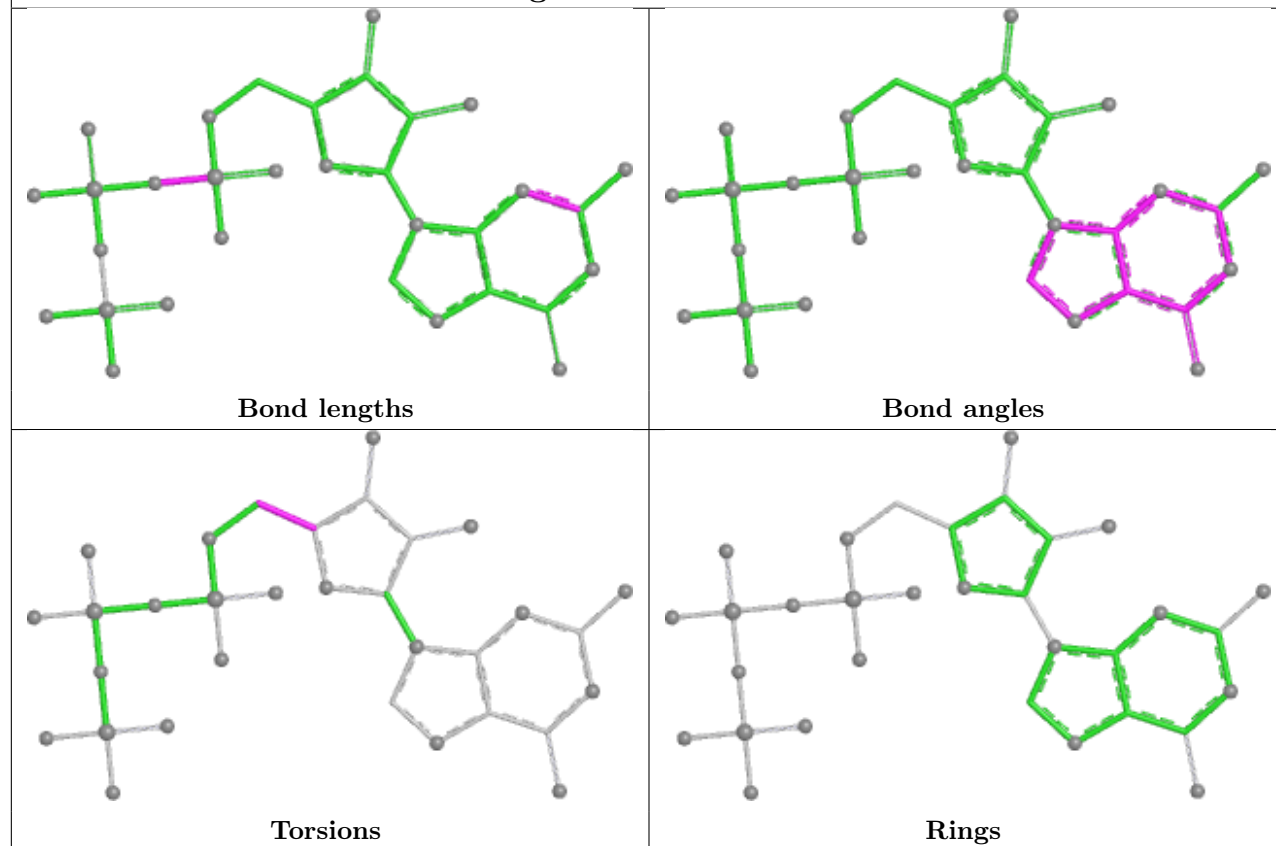




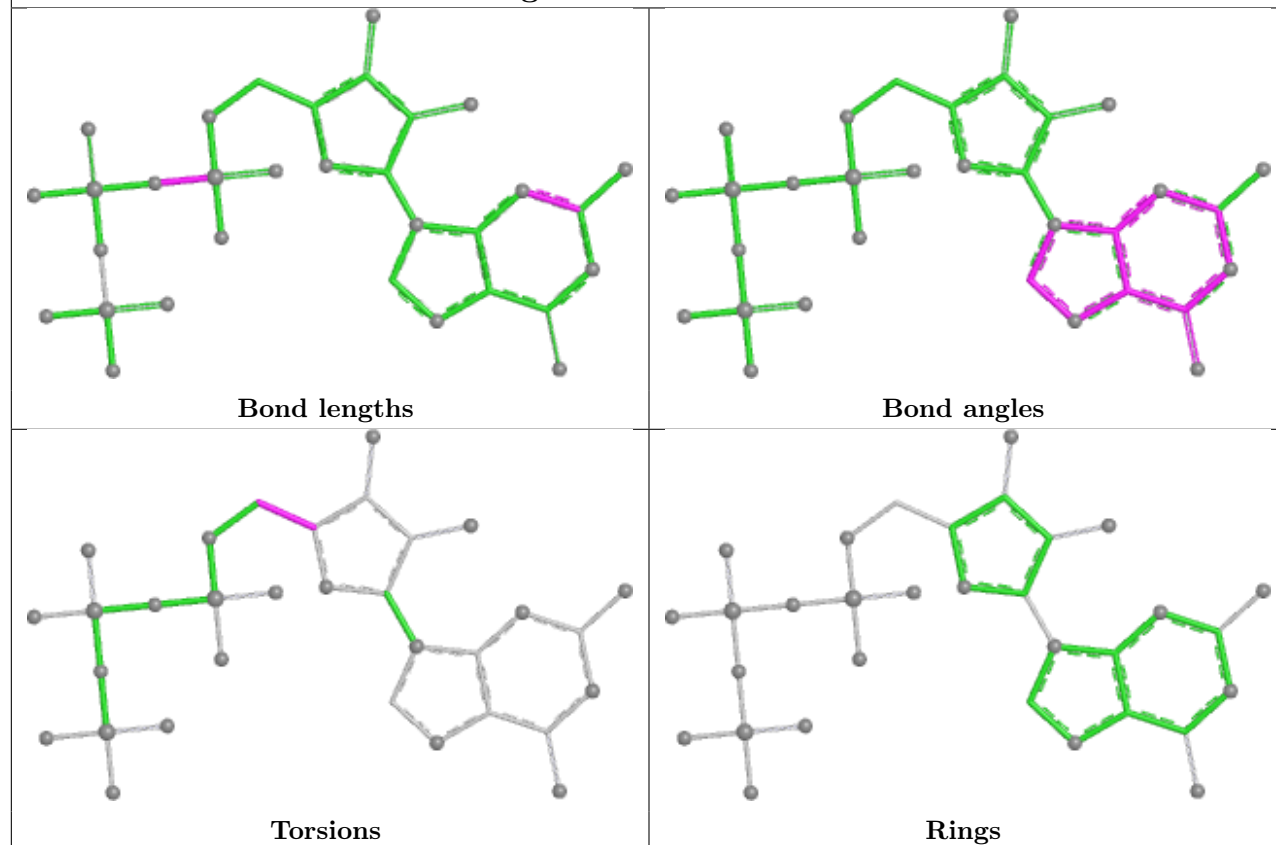
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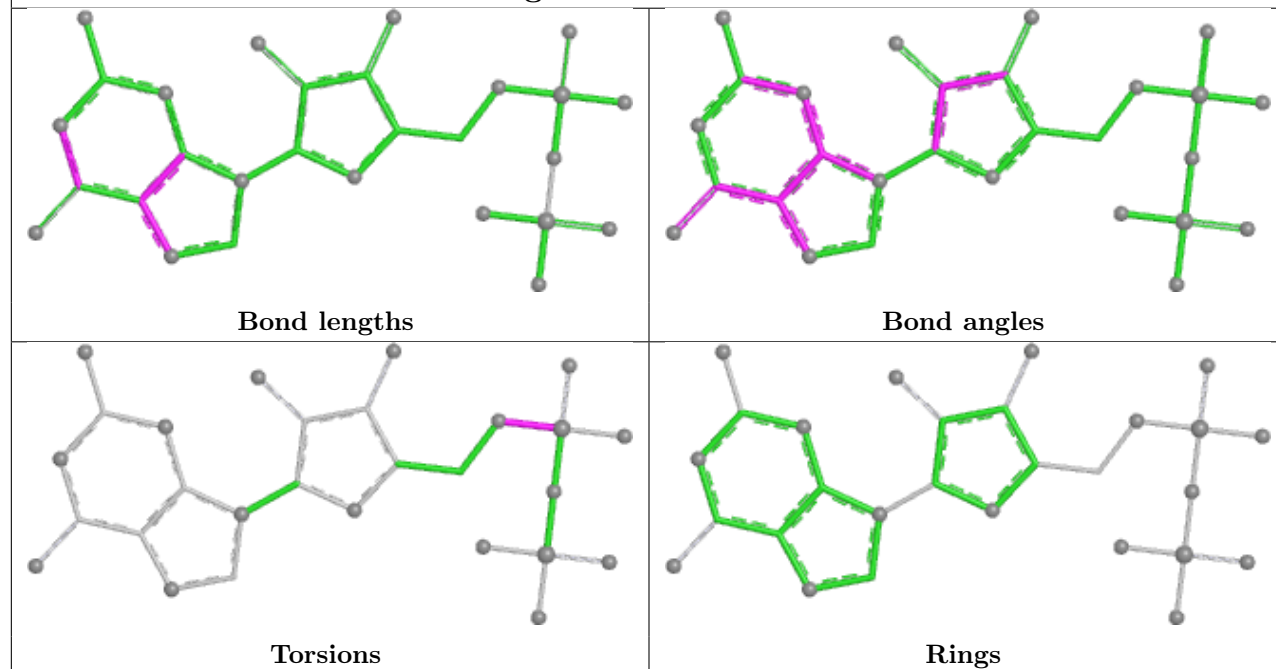
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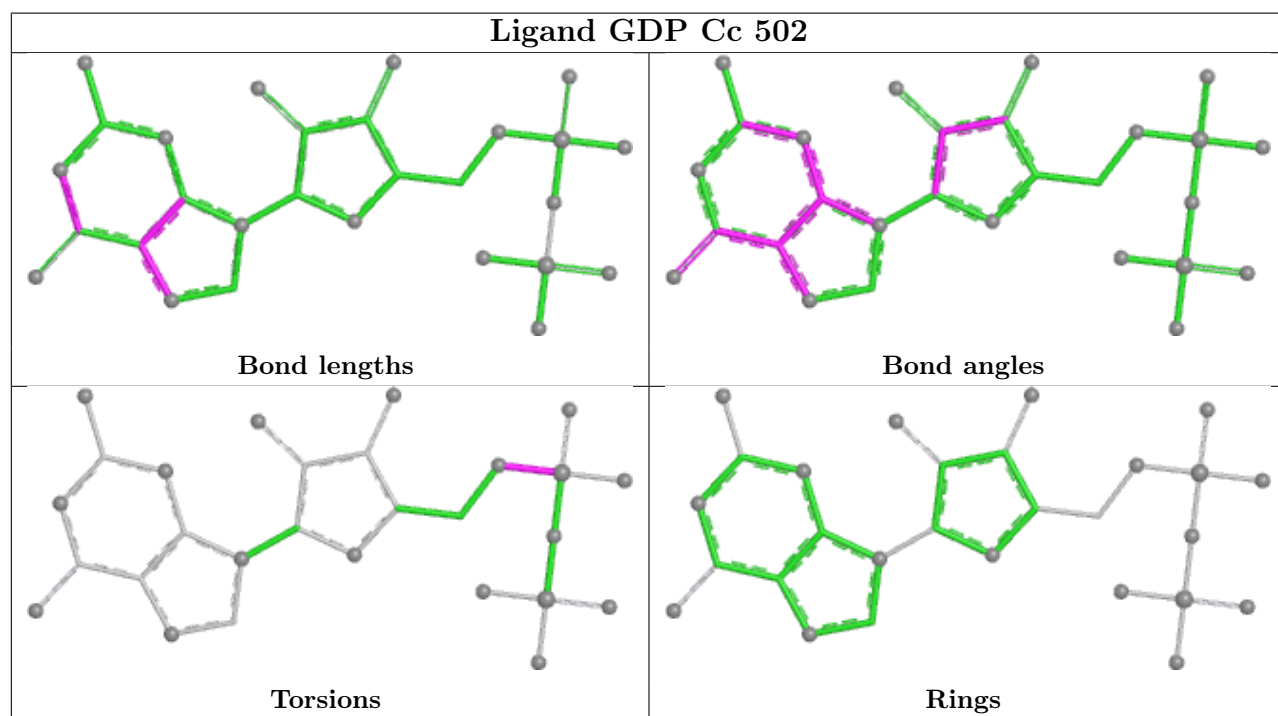
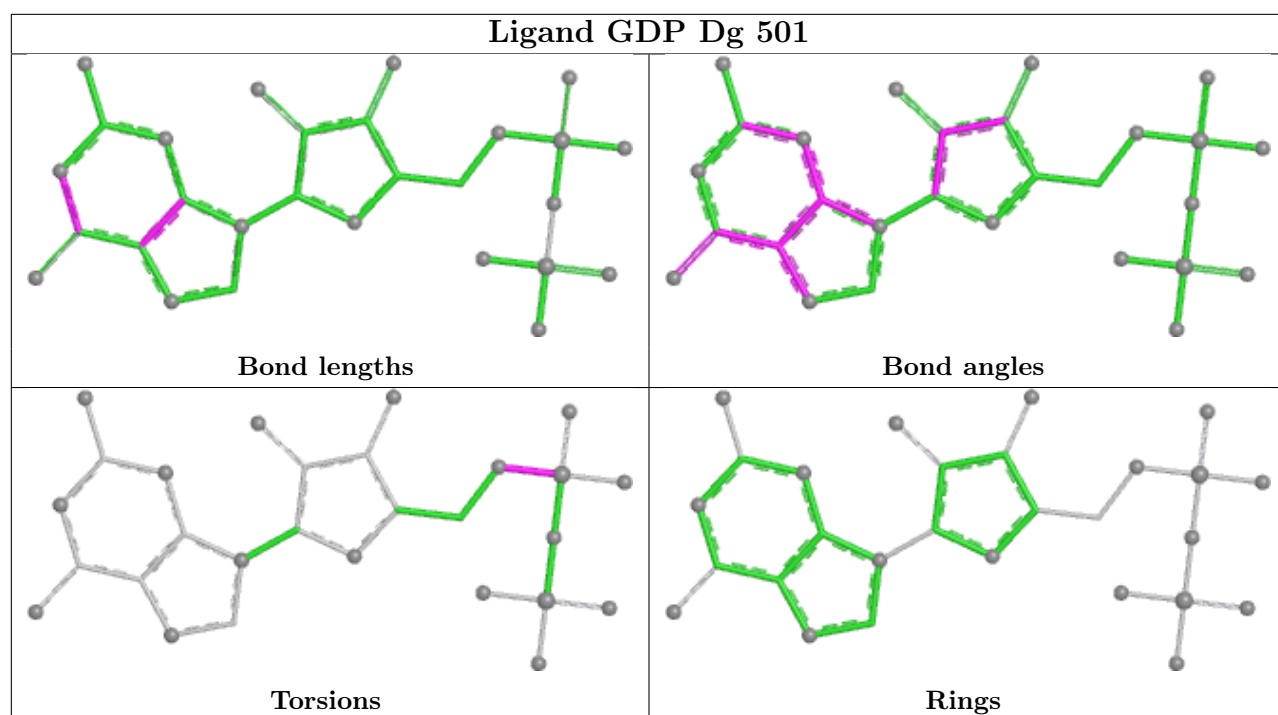


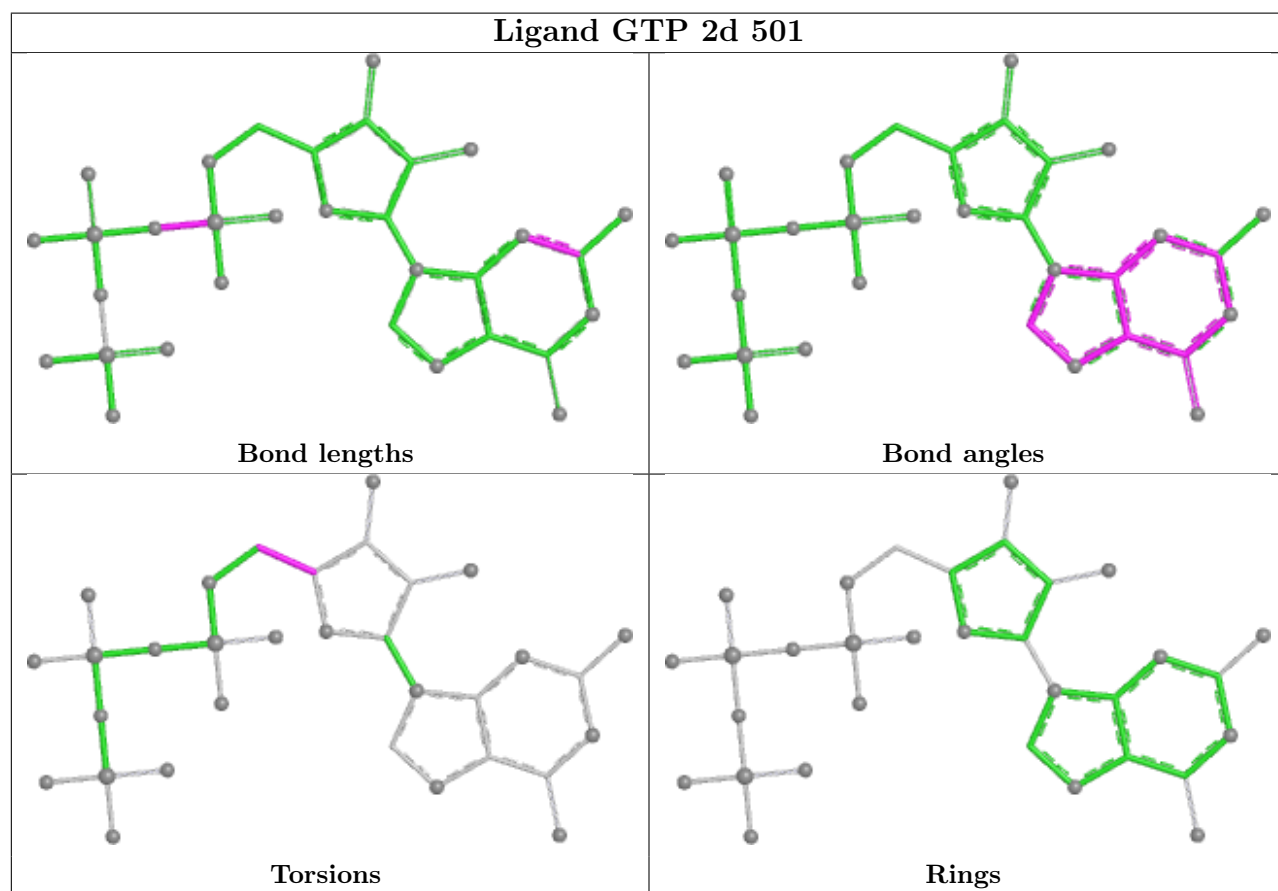
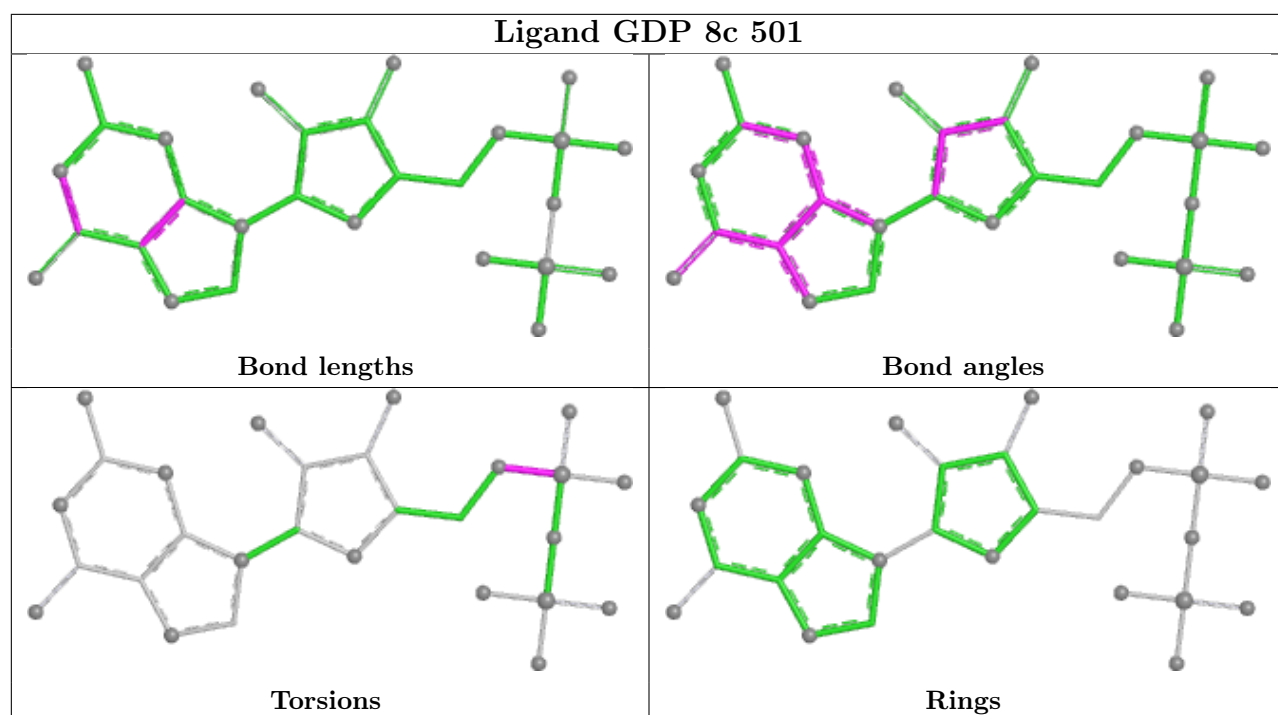
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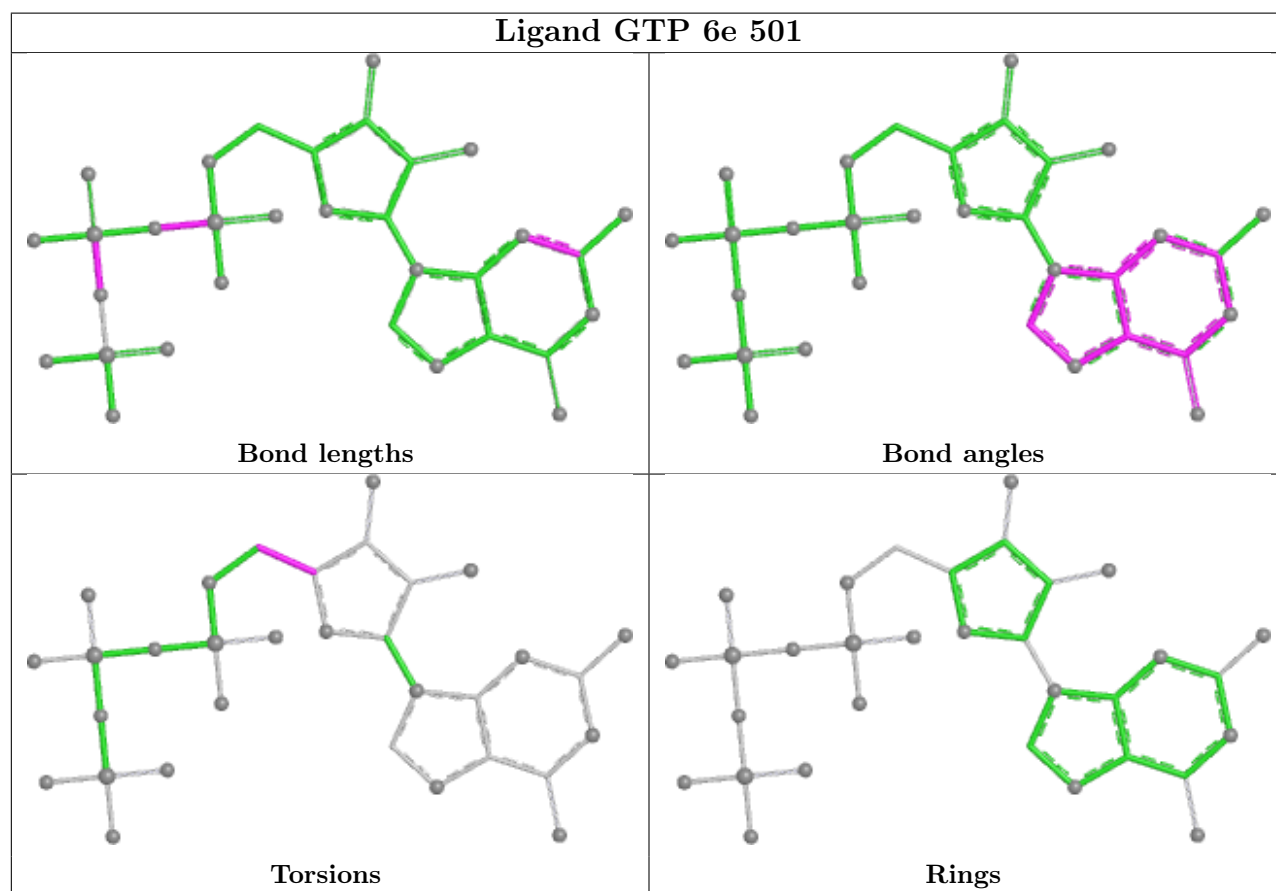
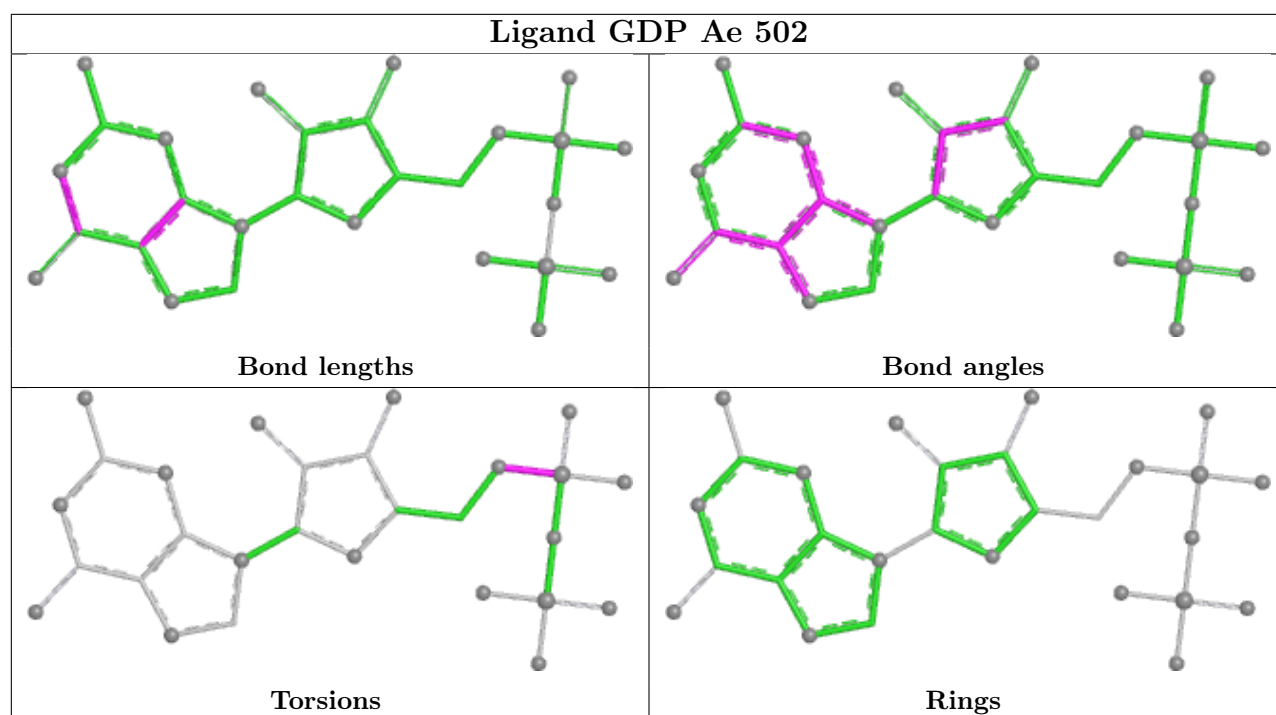


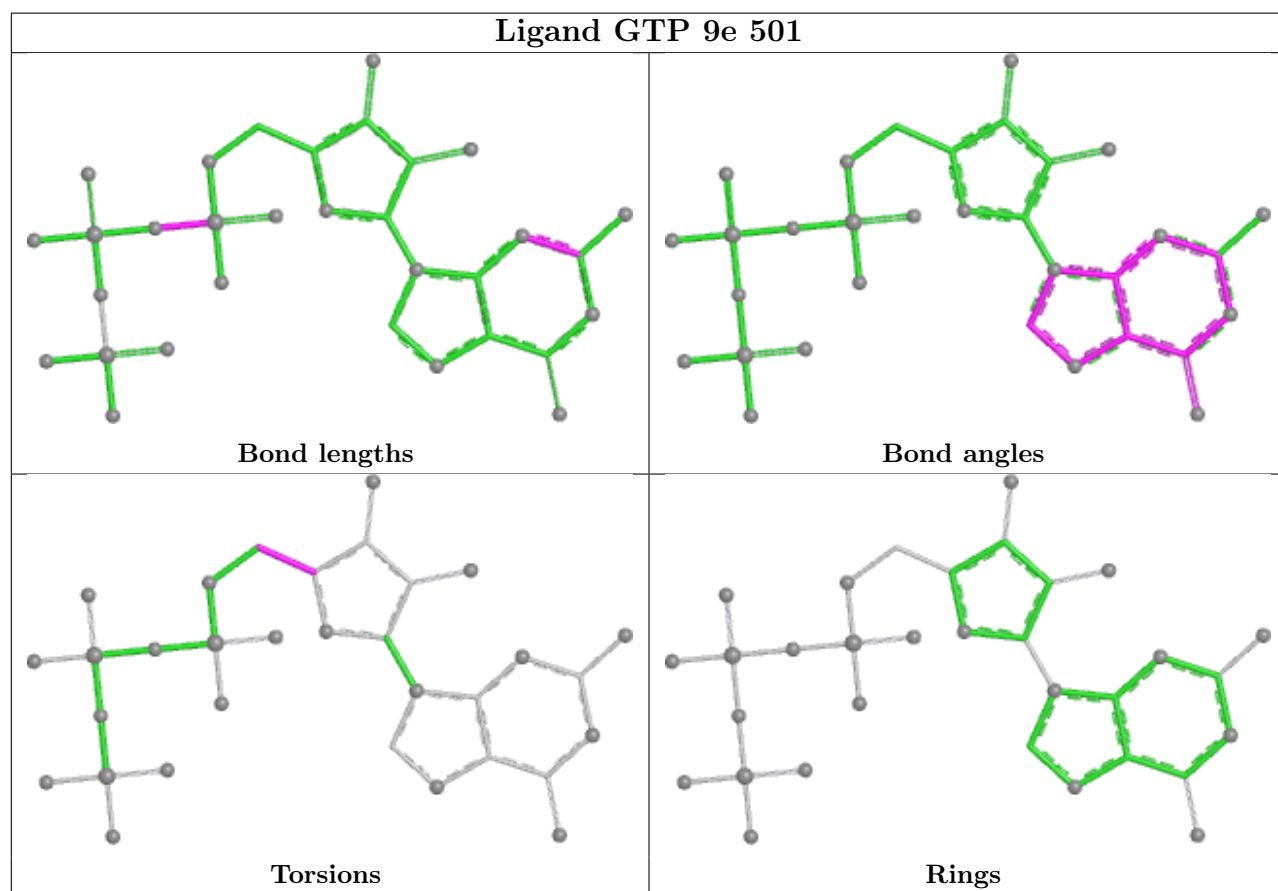
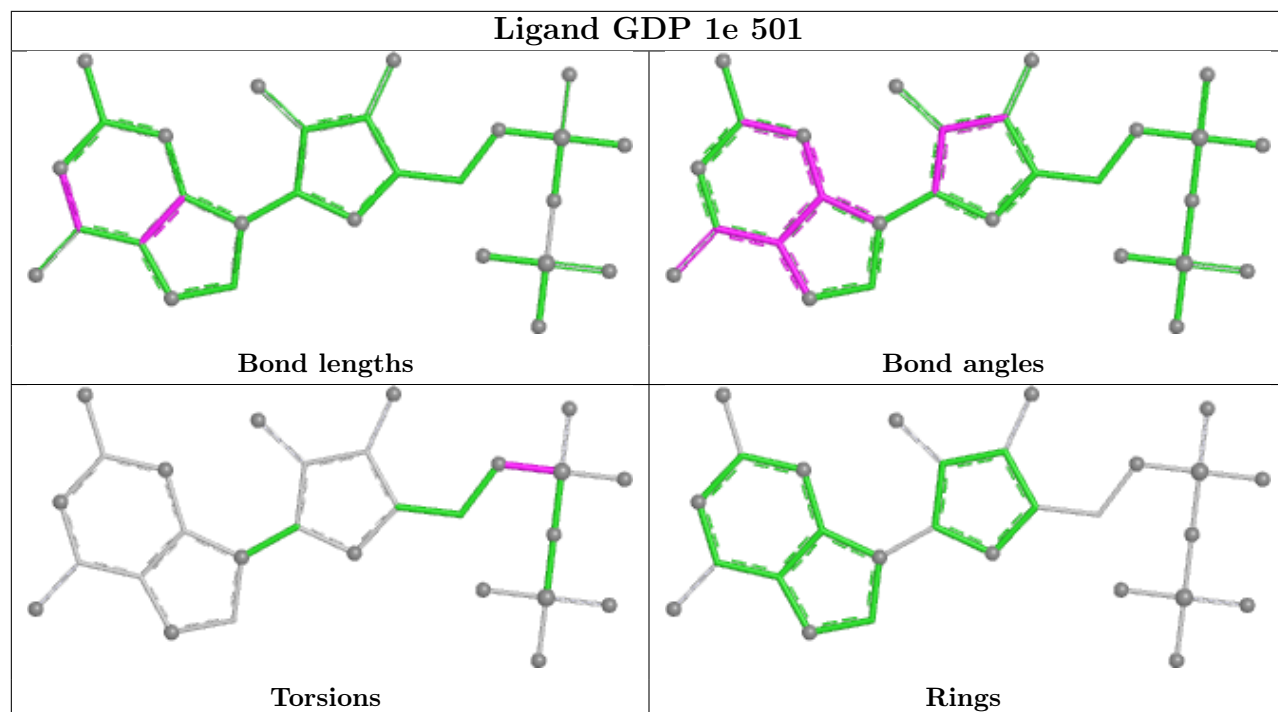
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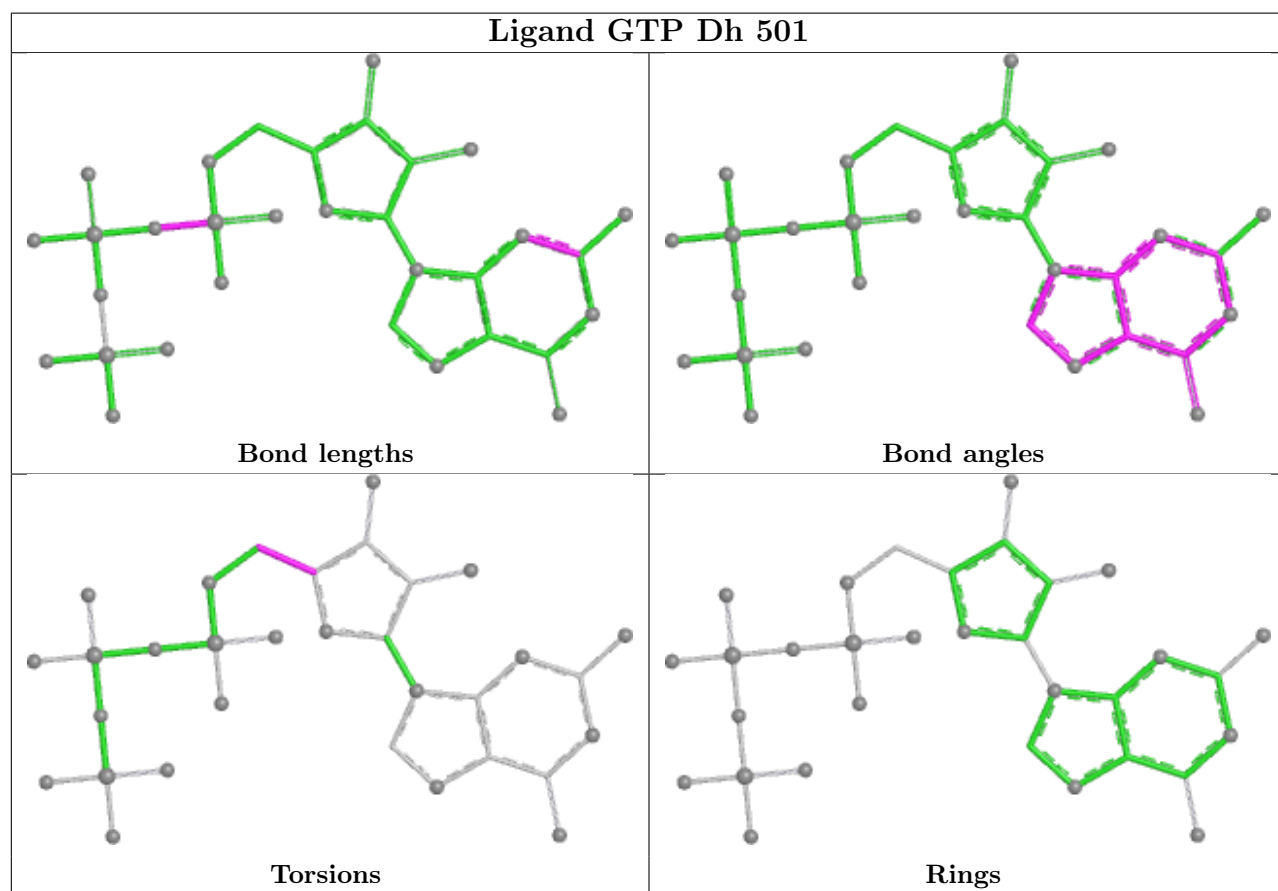
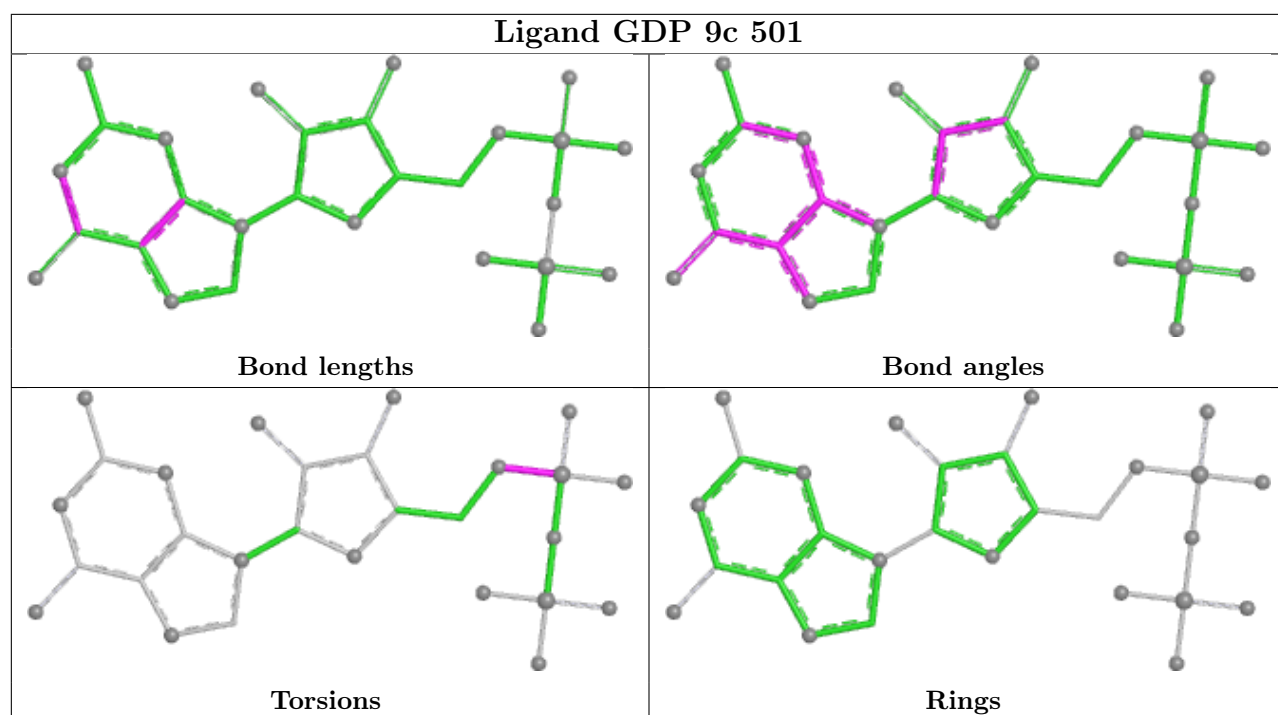


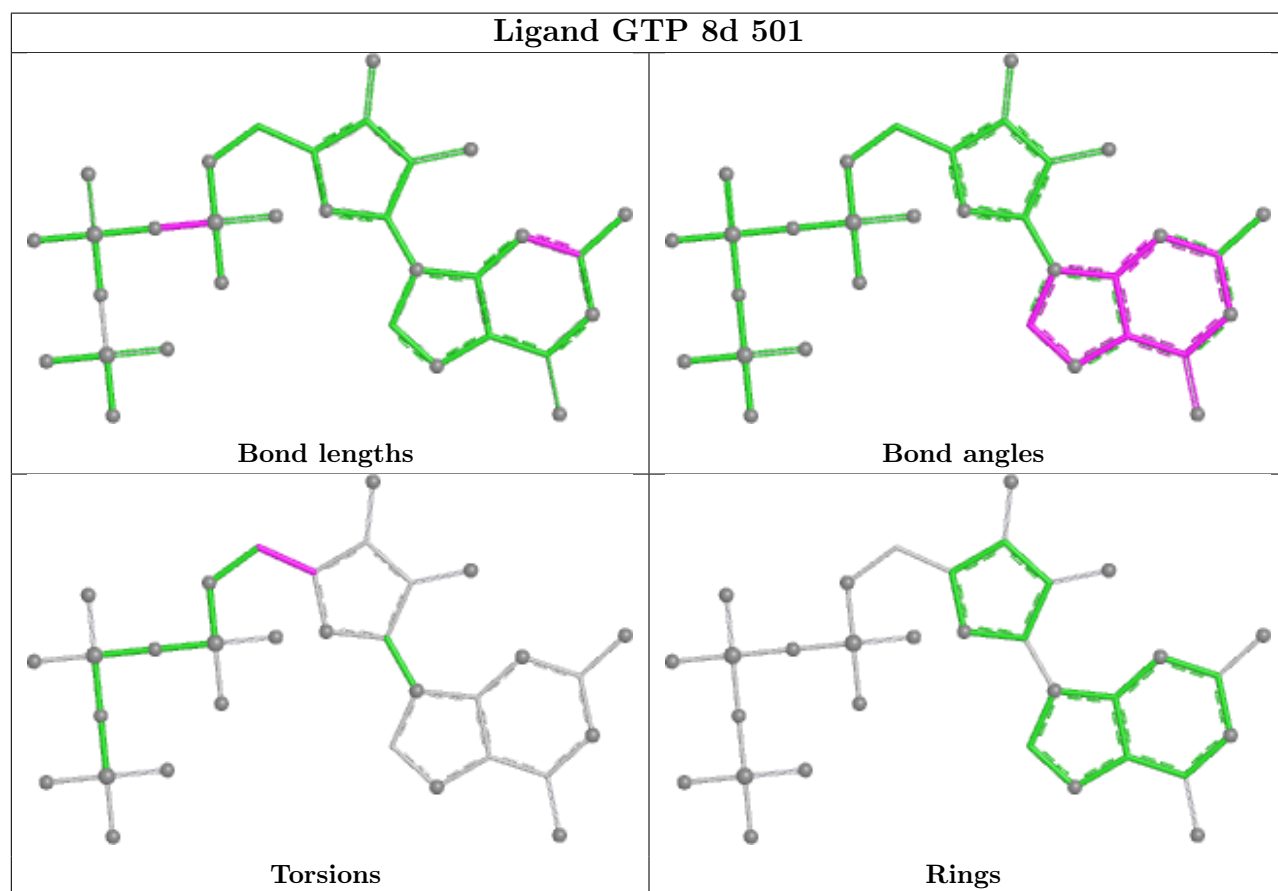
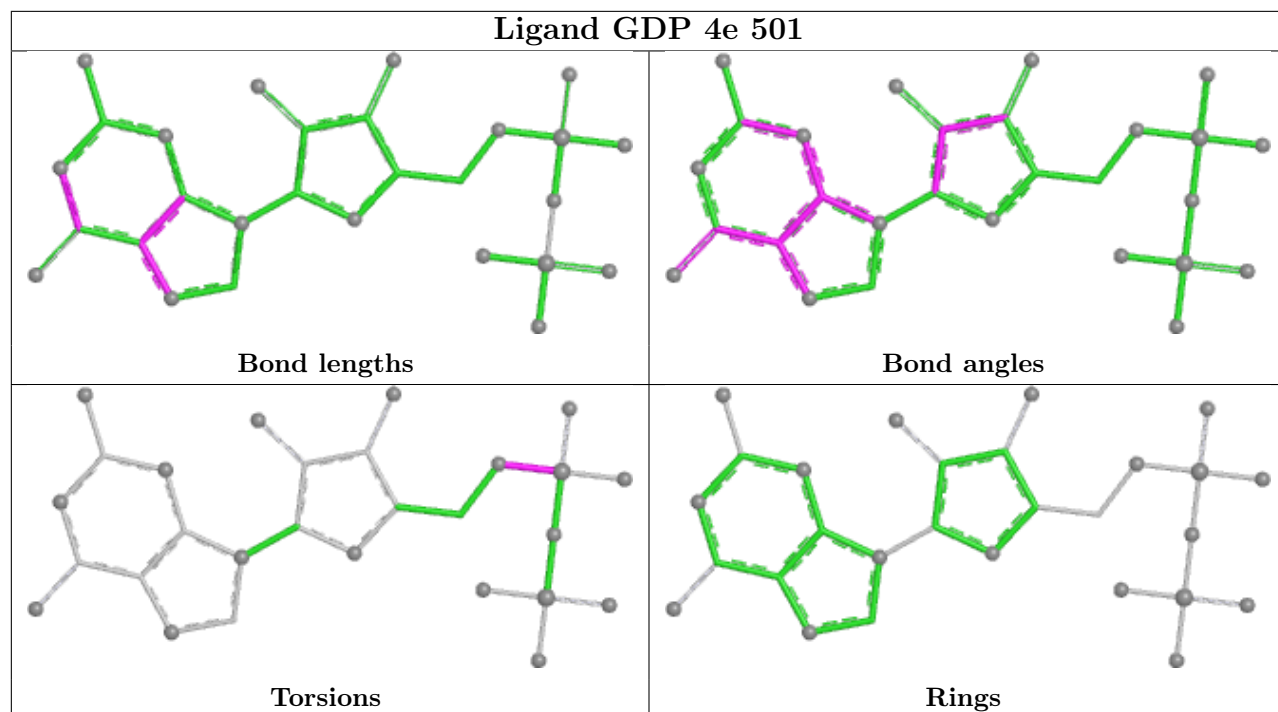


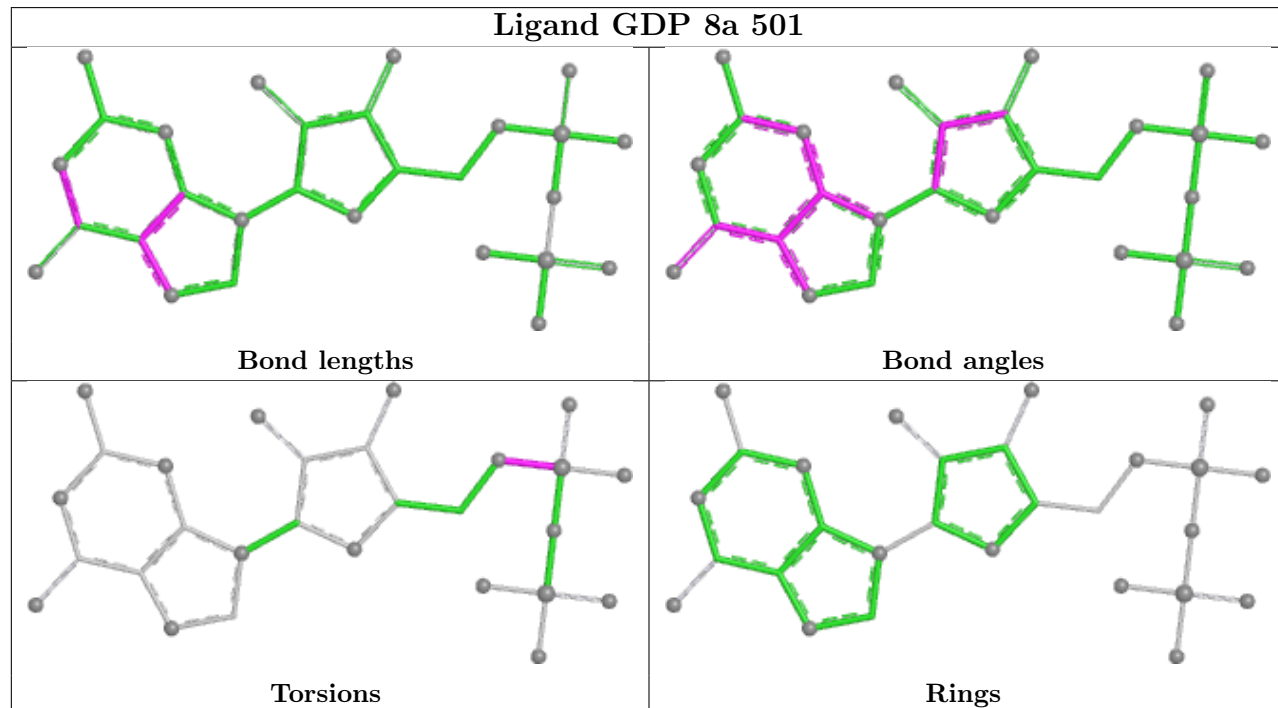
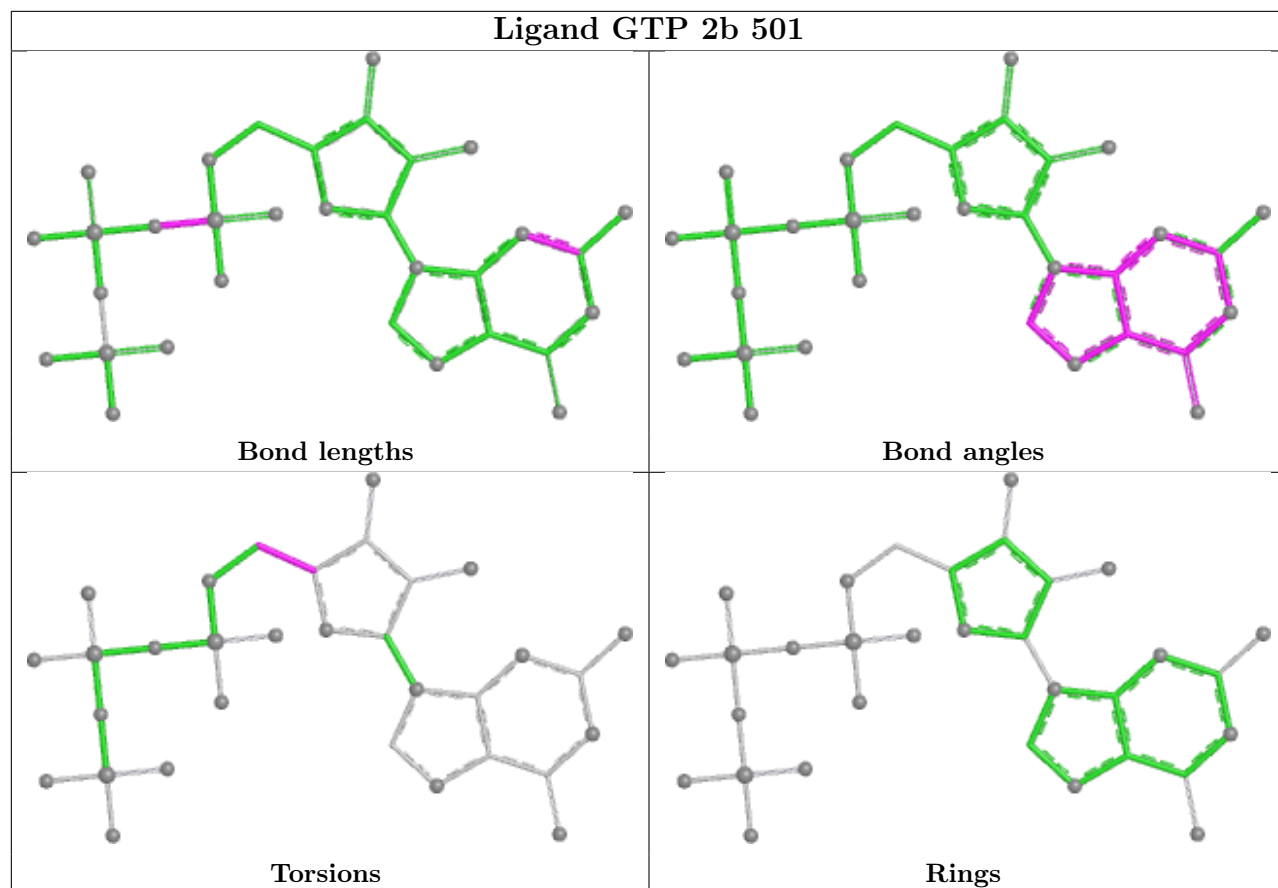


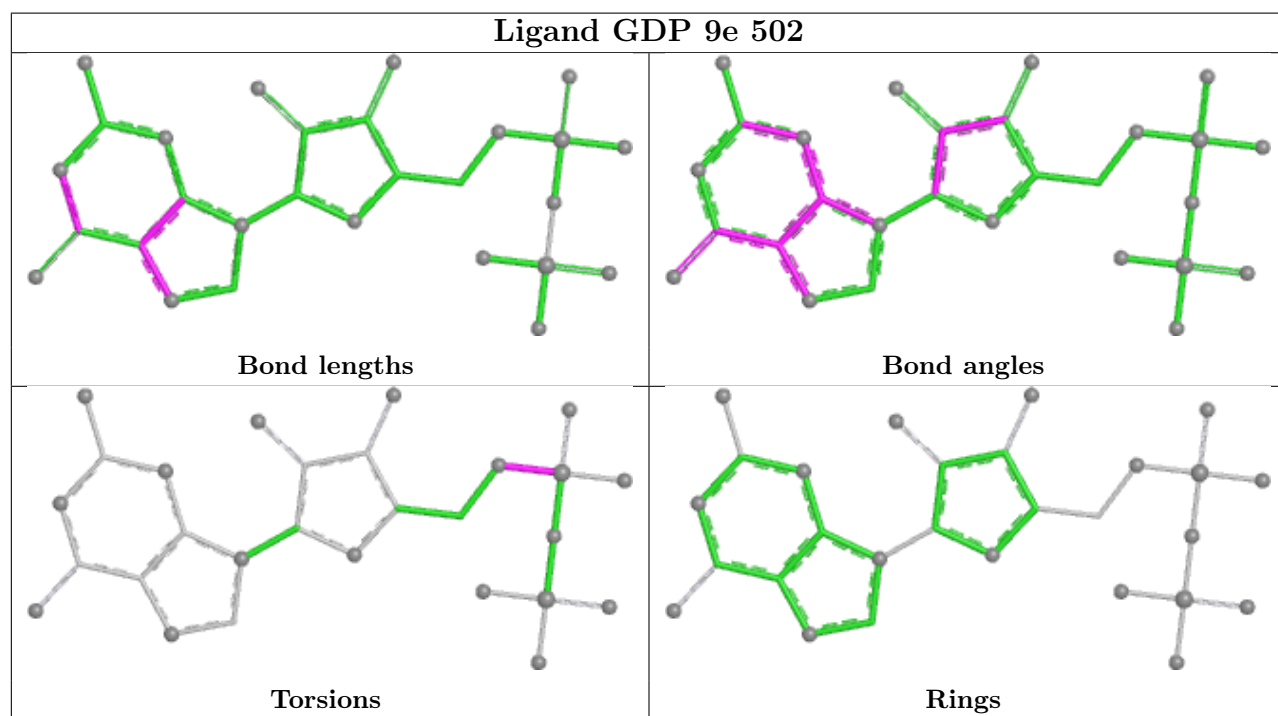
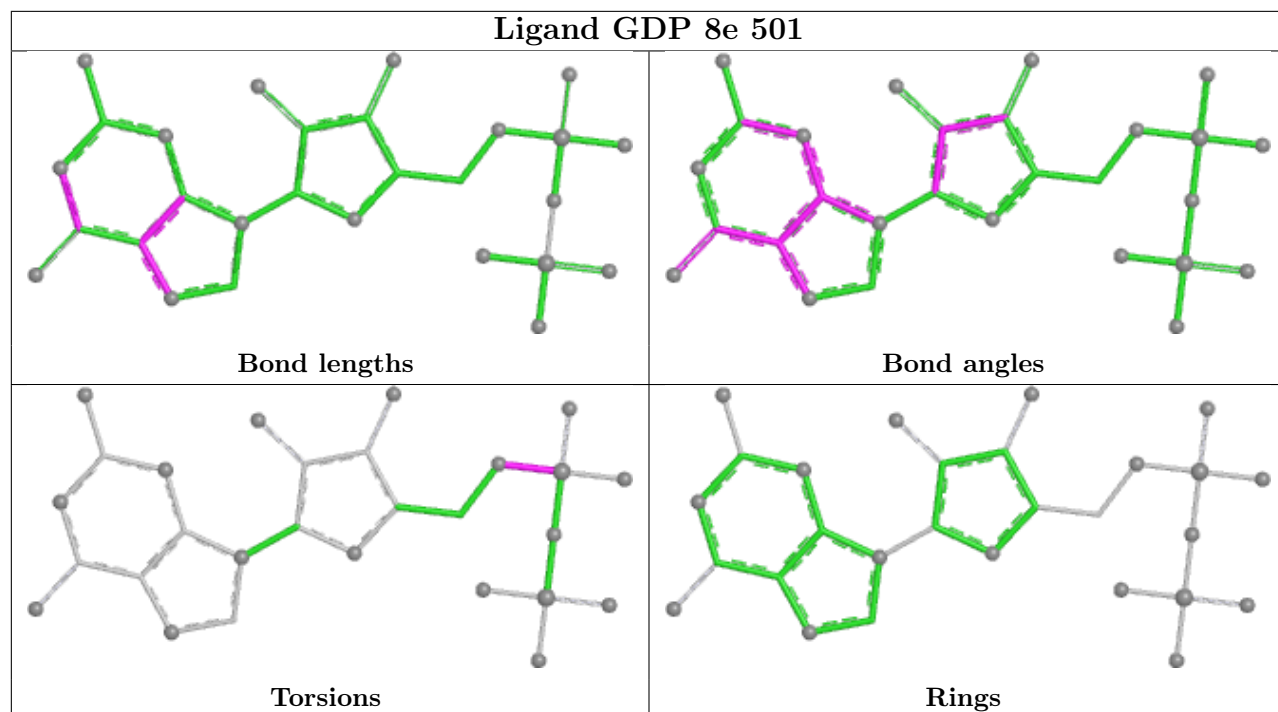


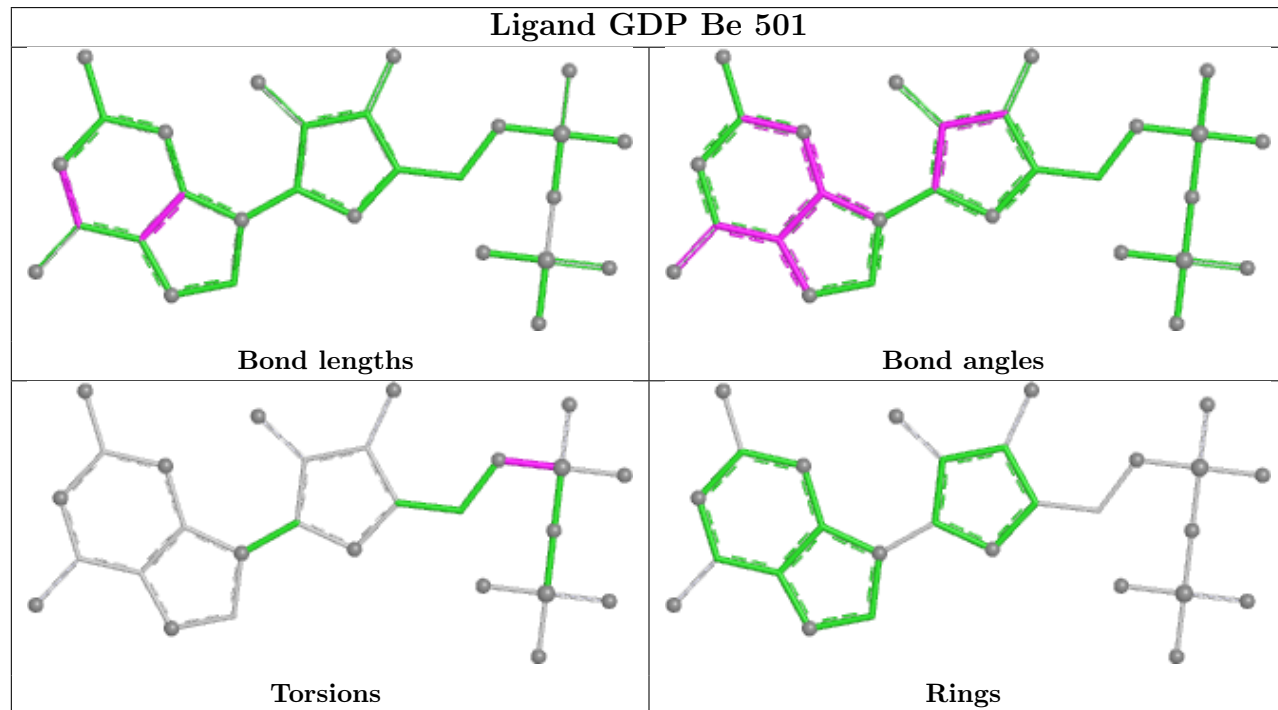
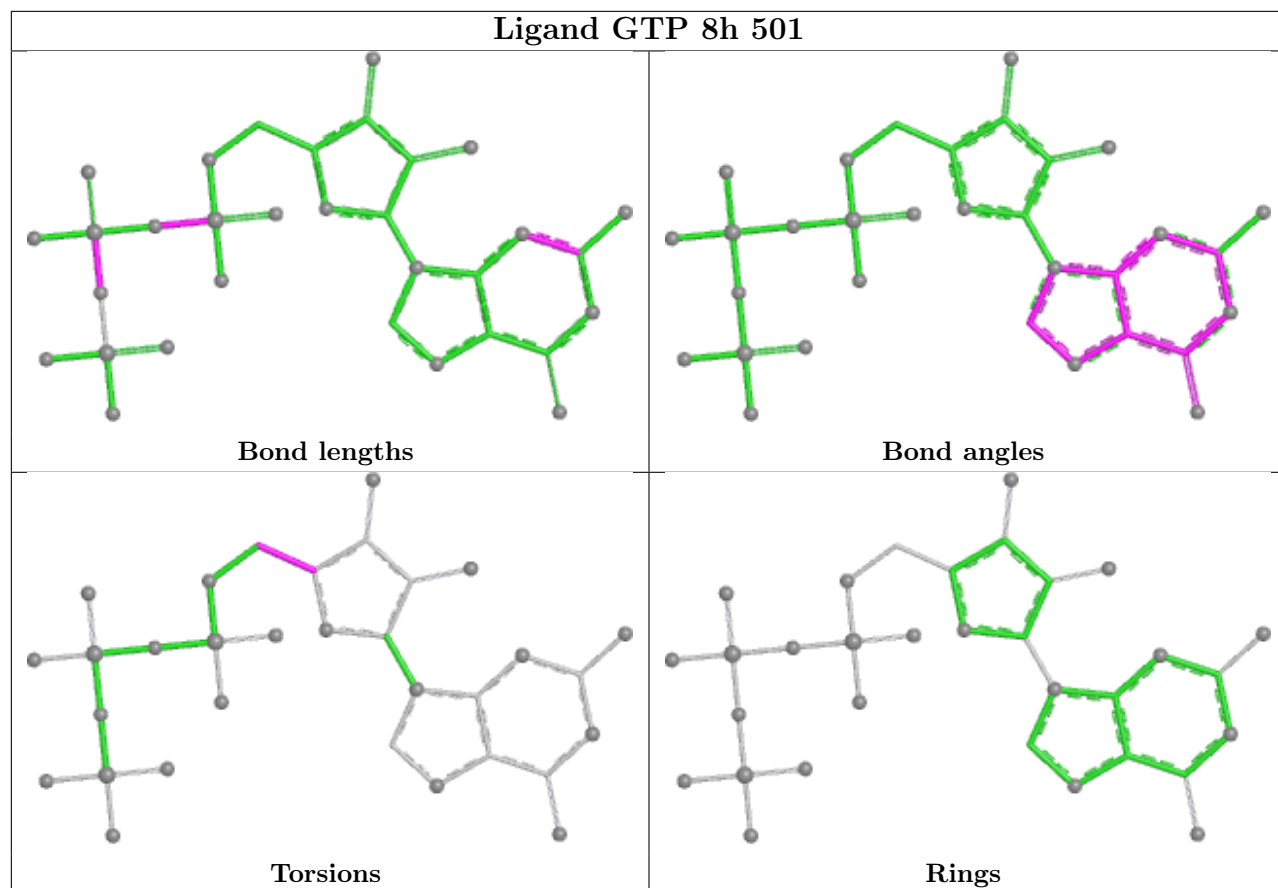


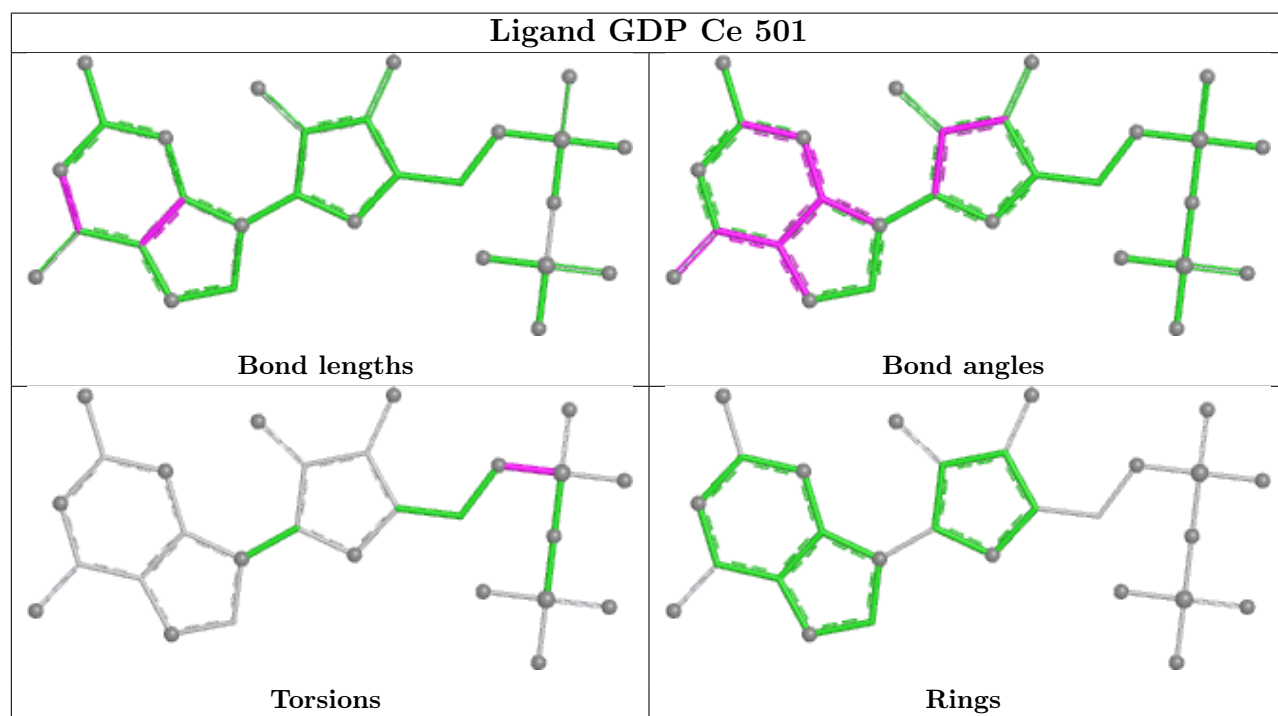
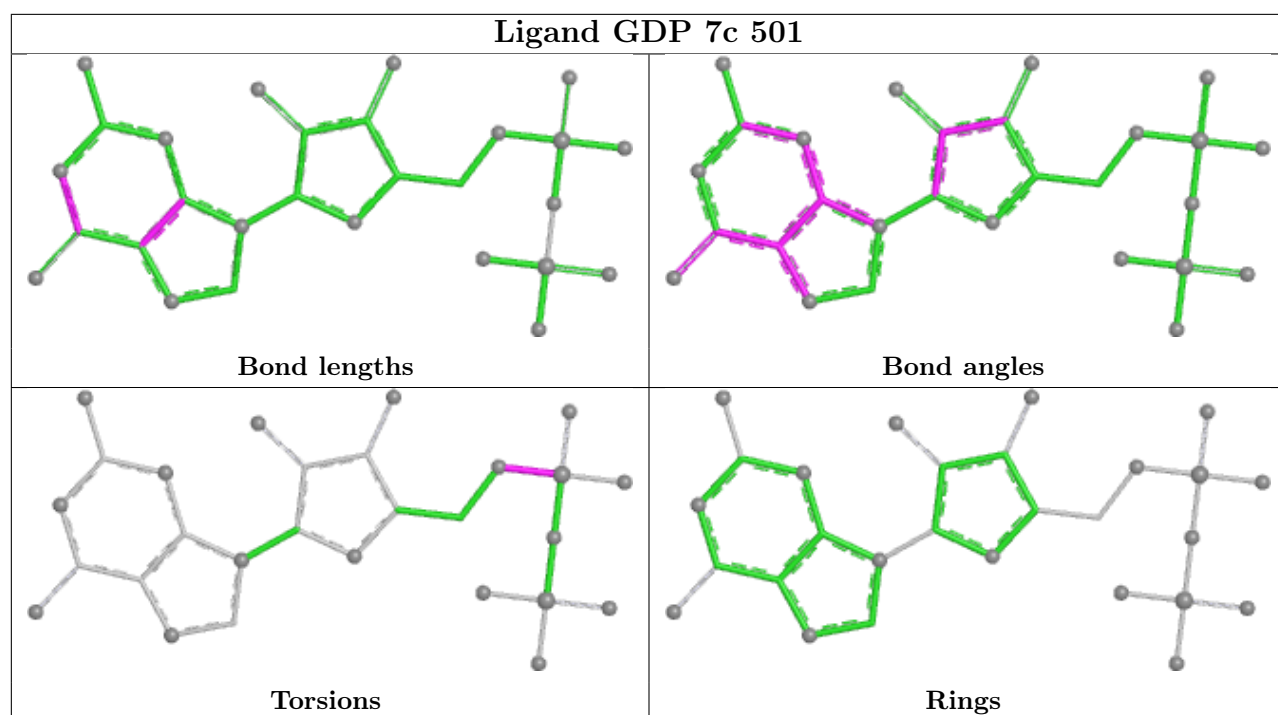


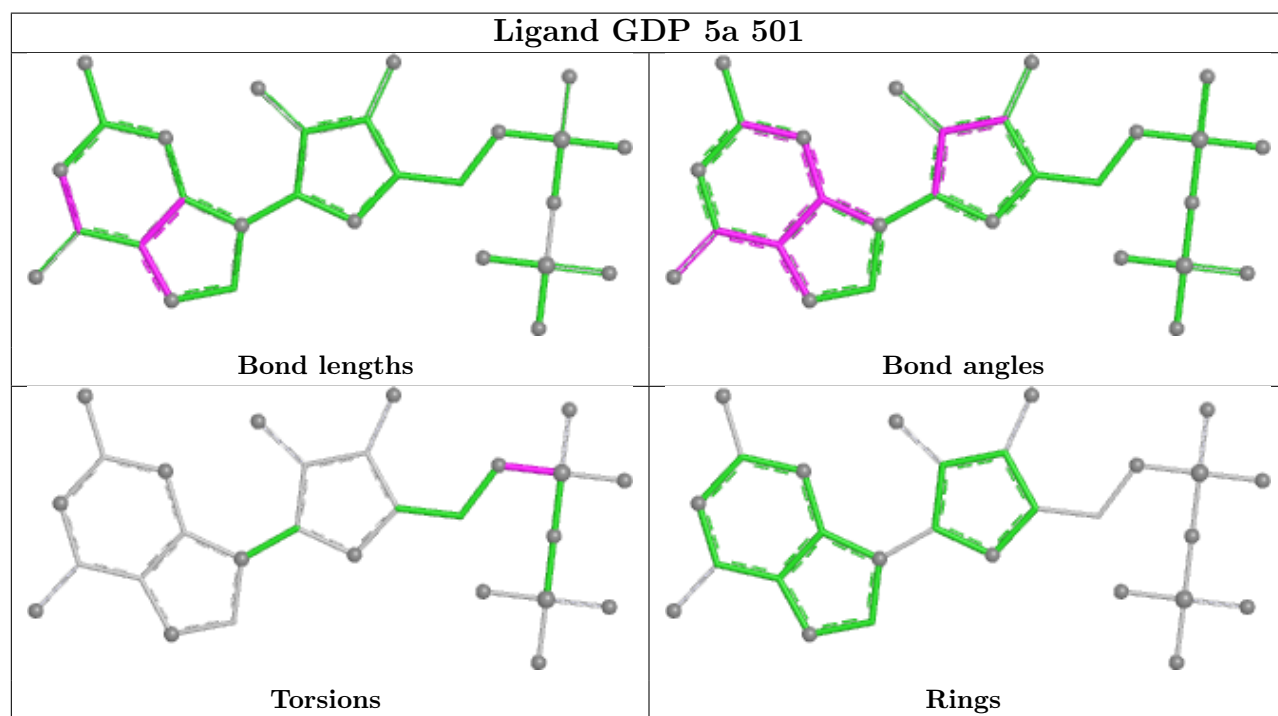
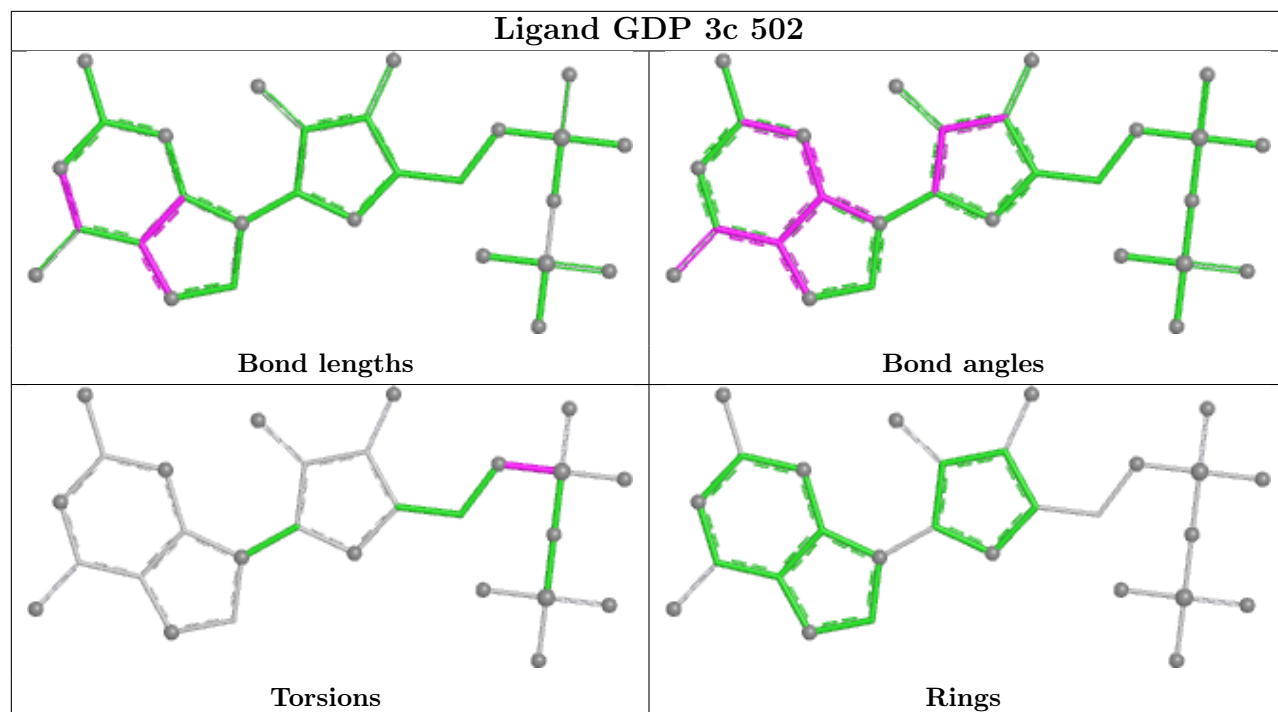


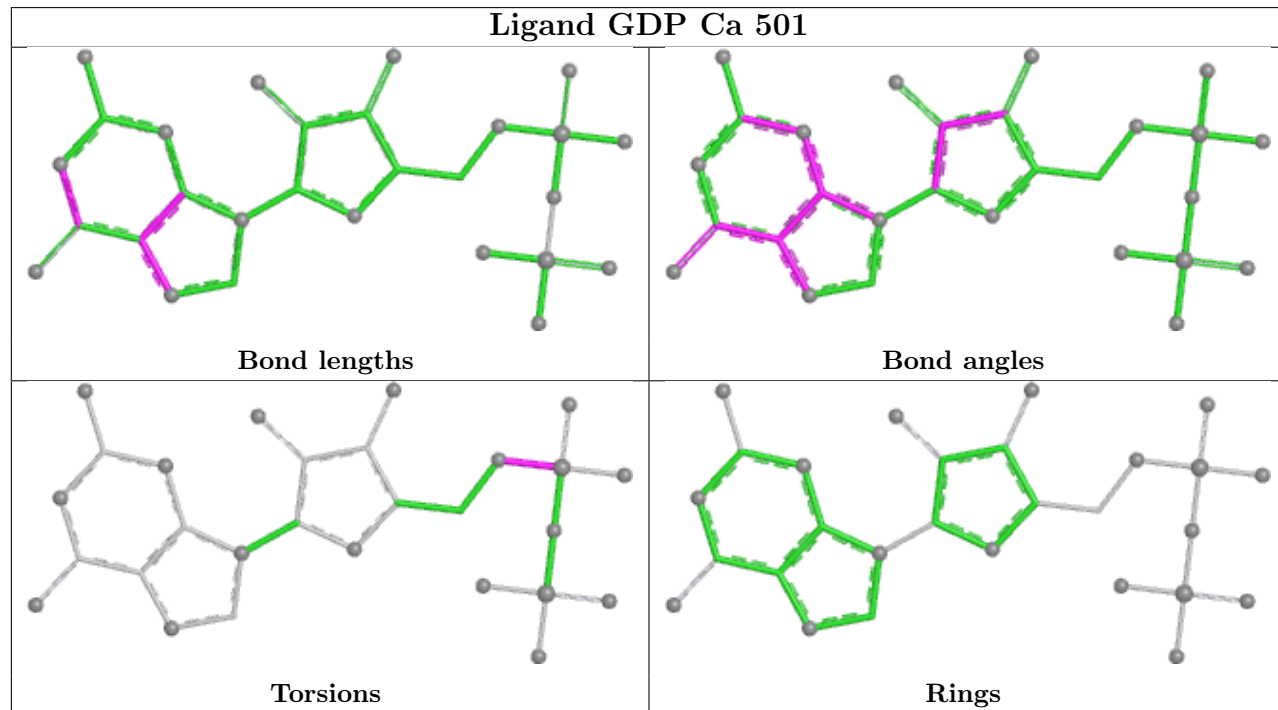
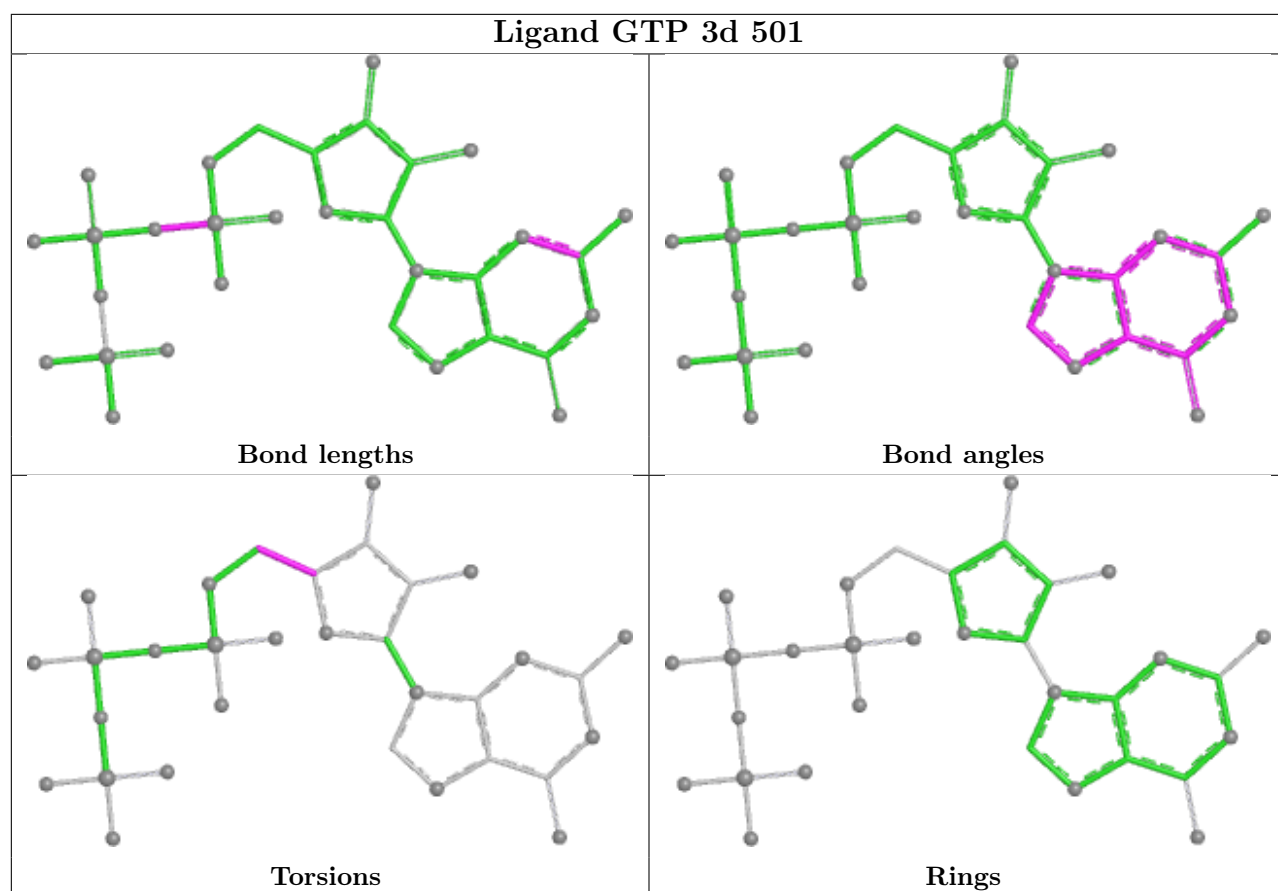


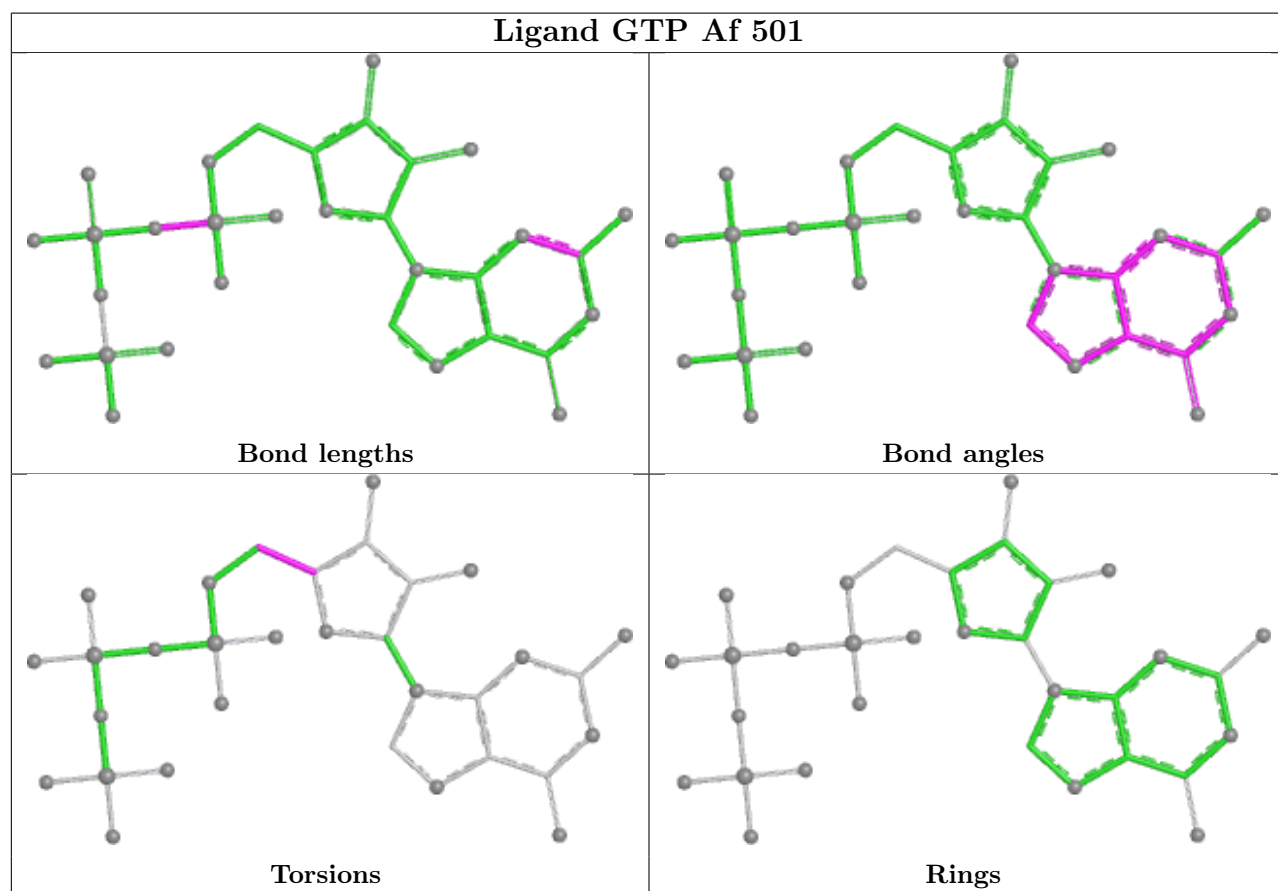
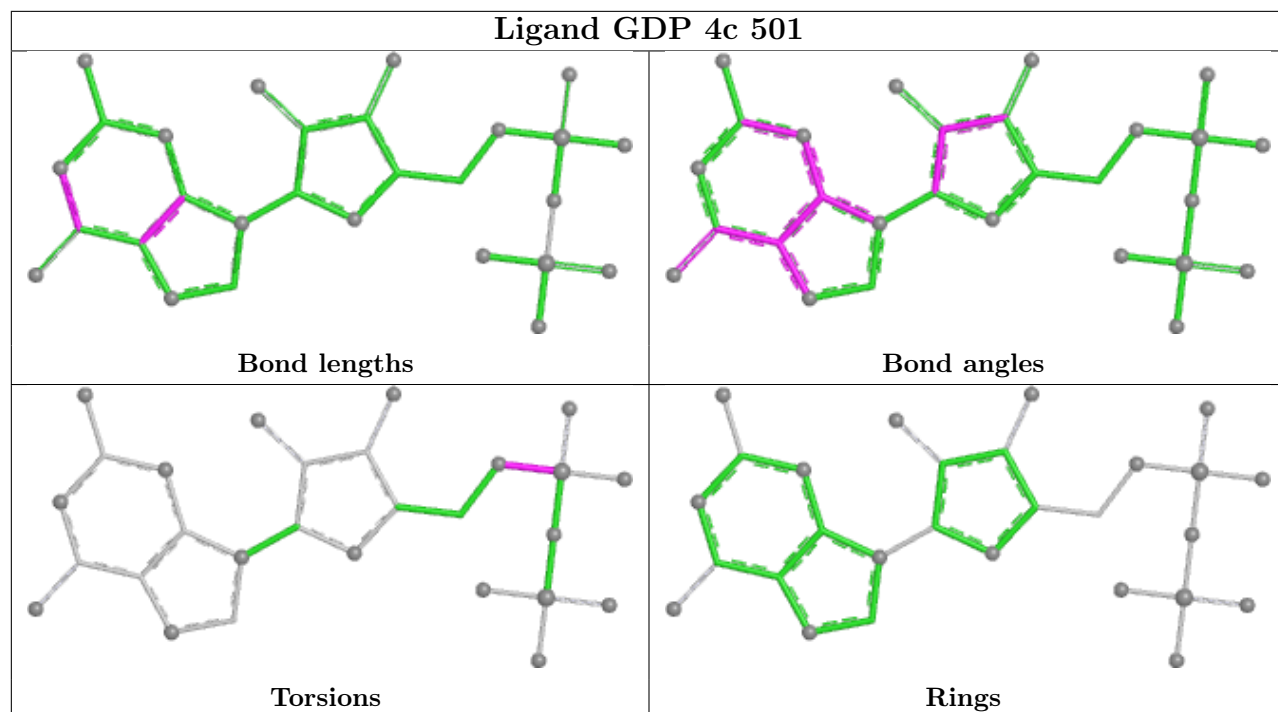


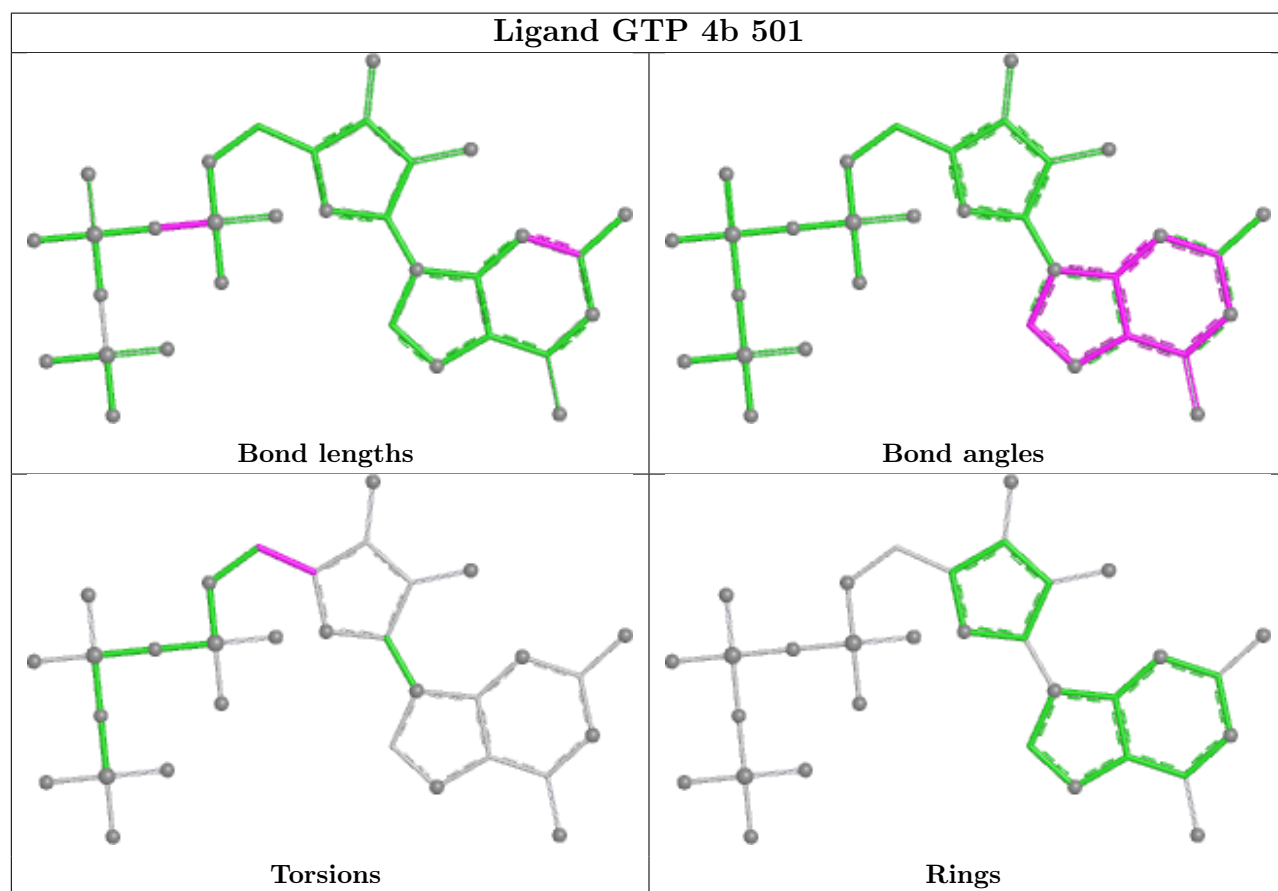
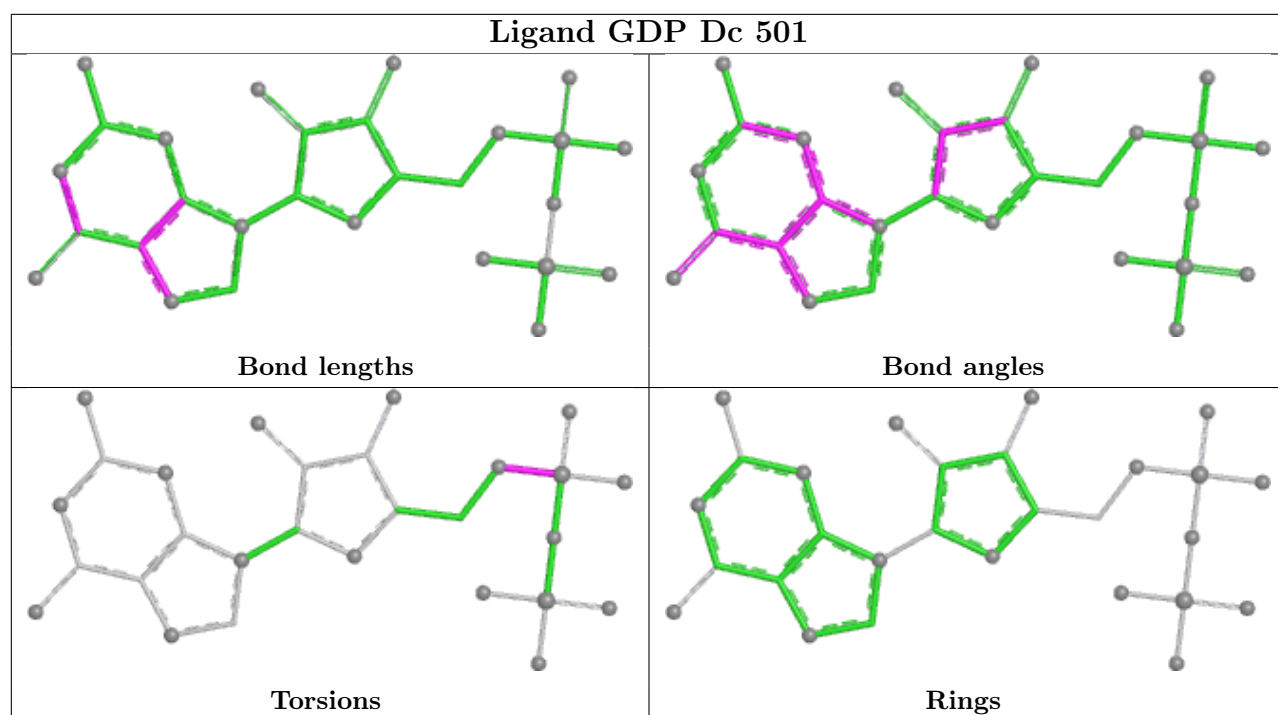




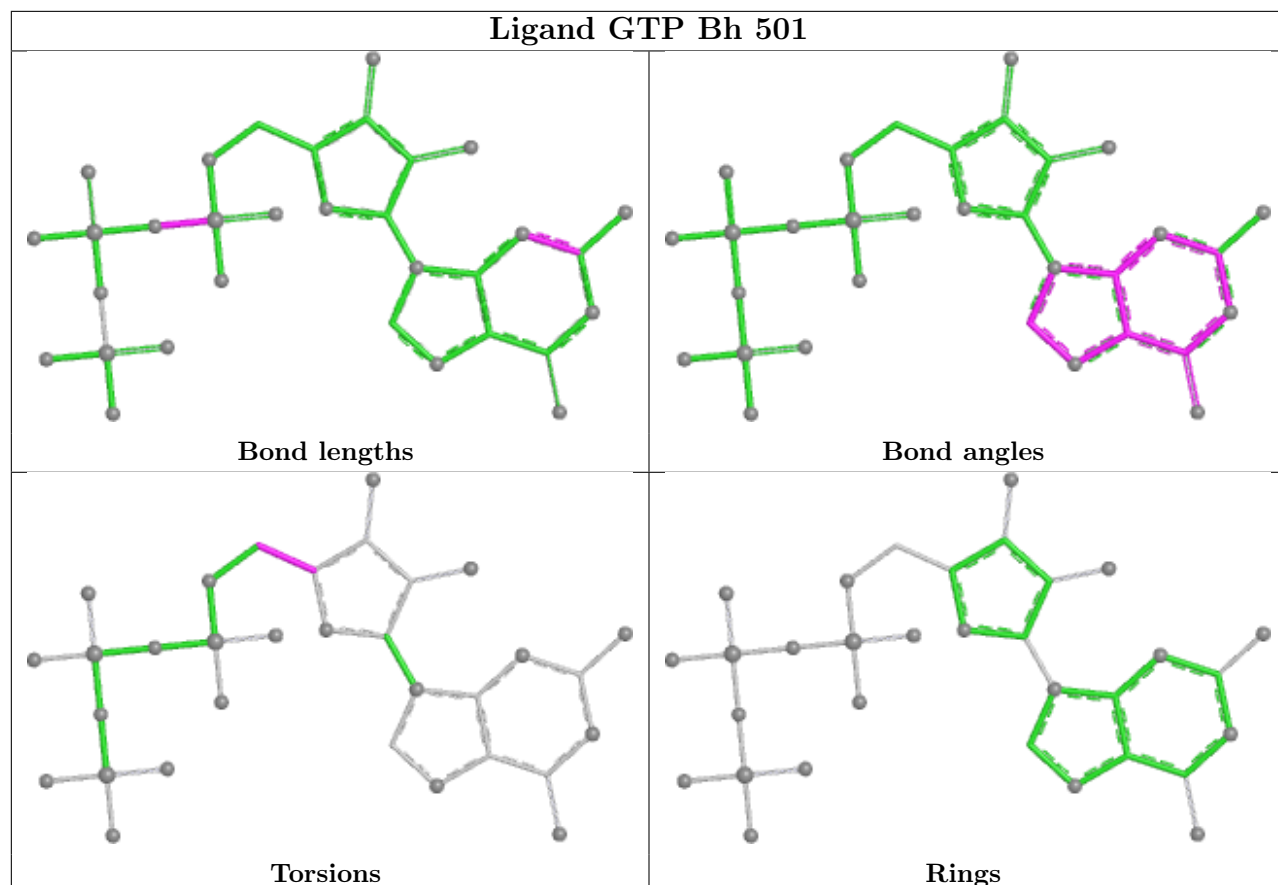




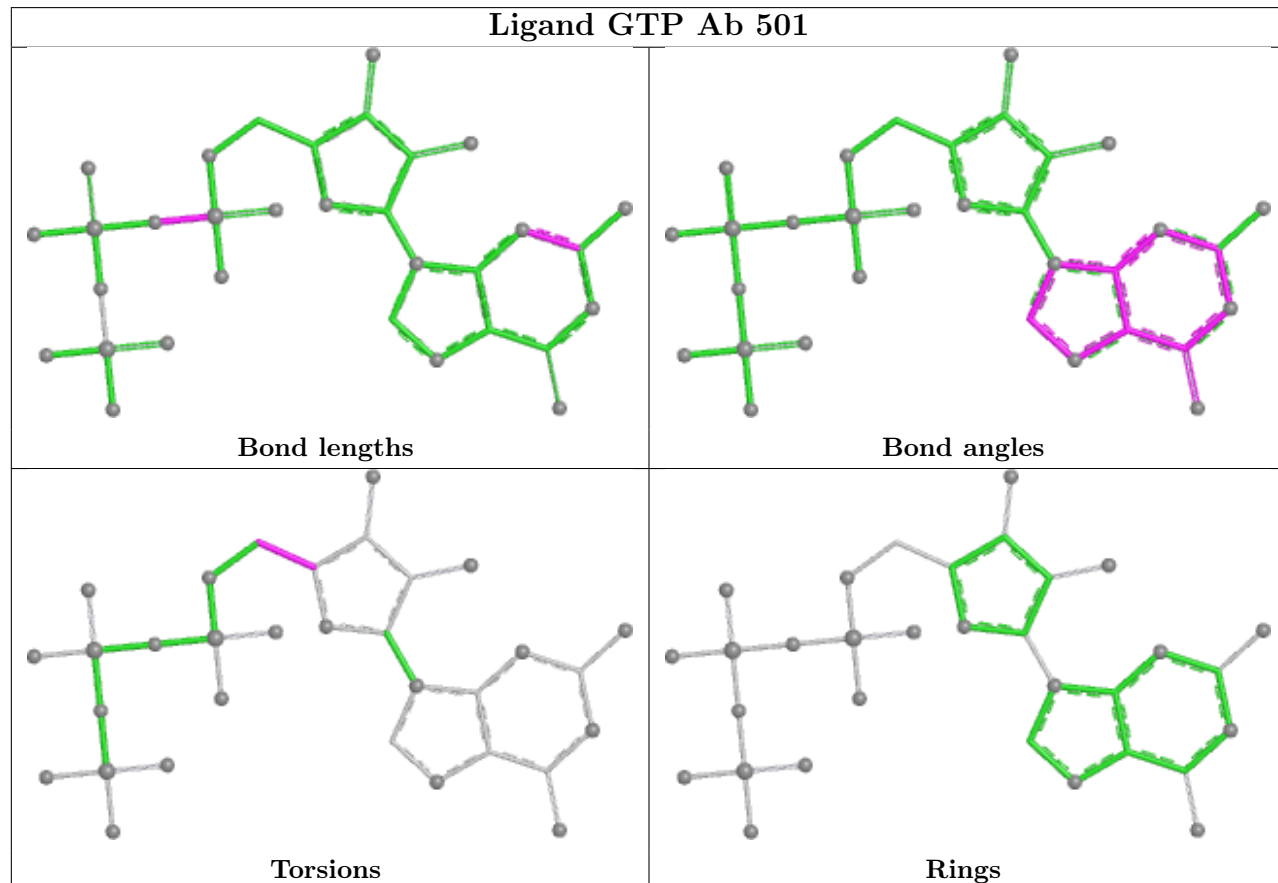


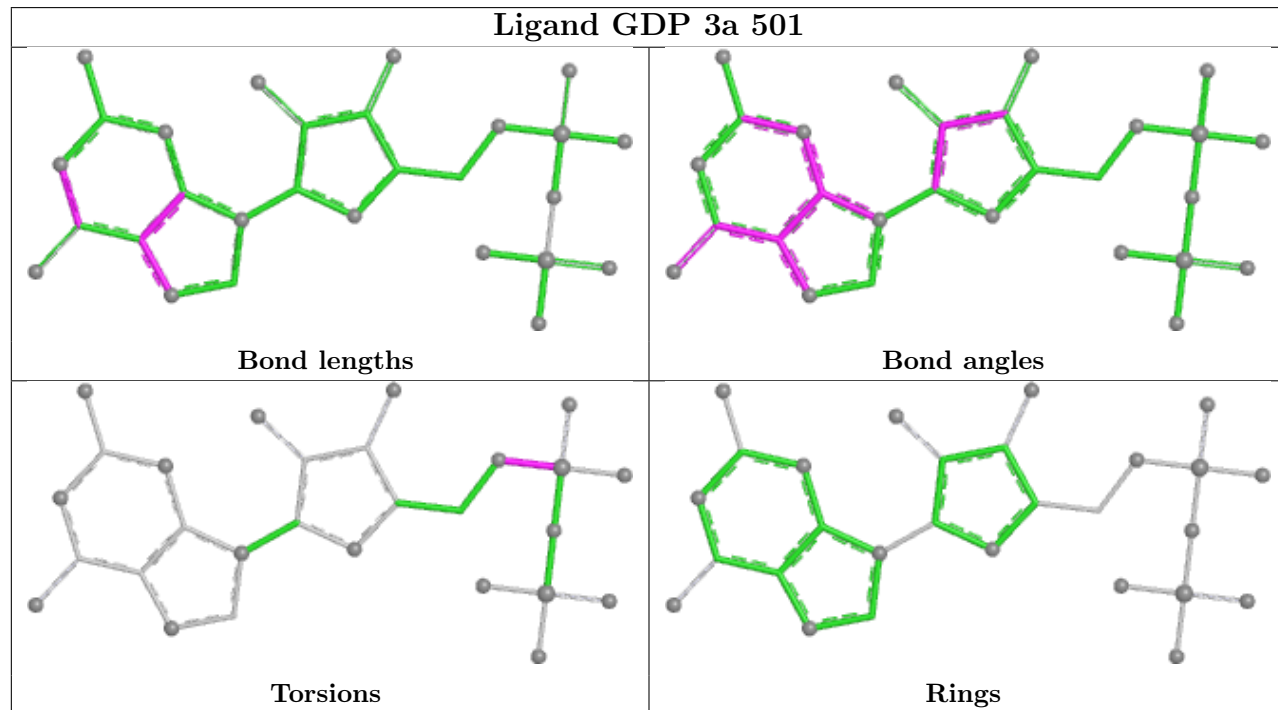
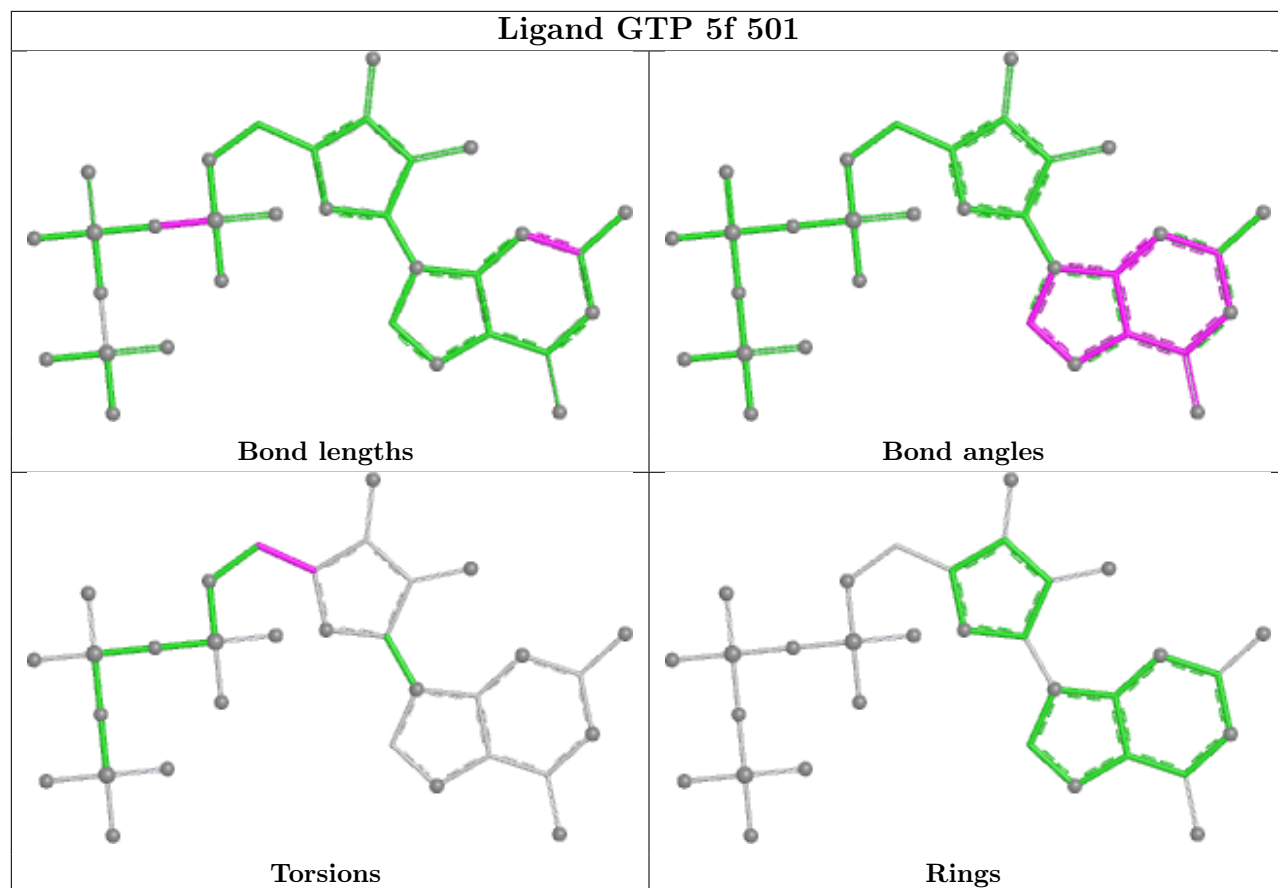


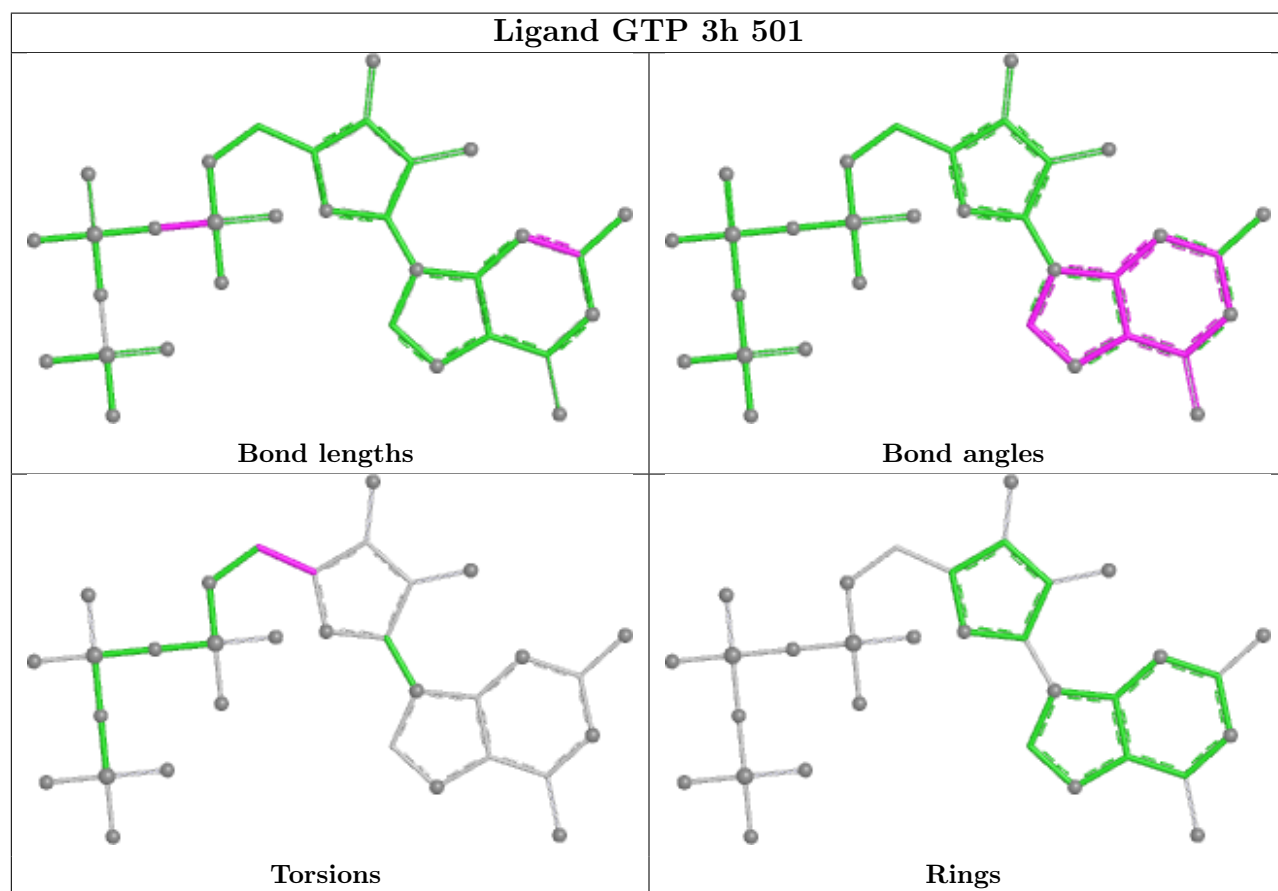
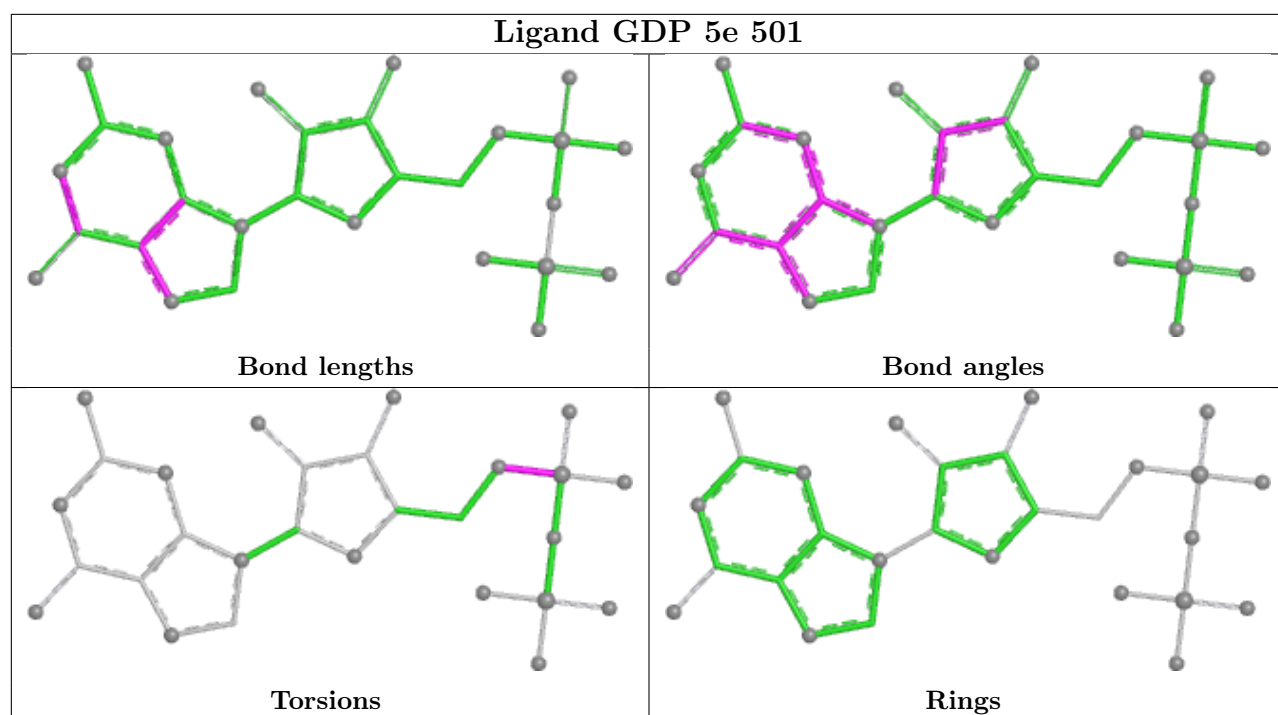
Ligand GTP Bh 501

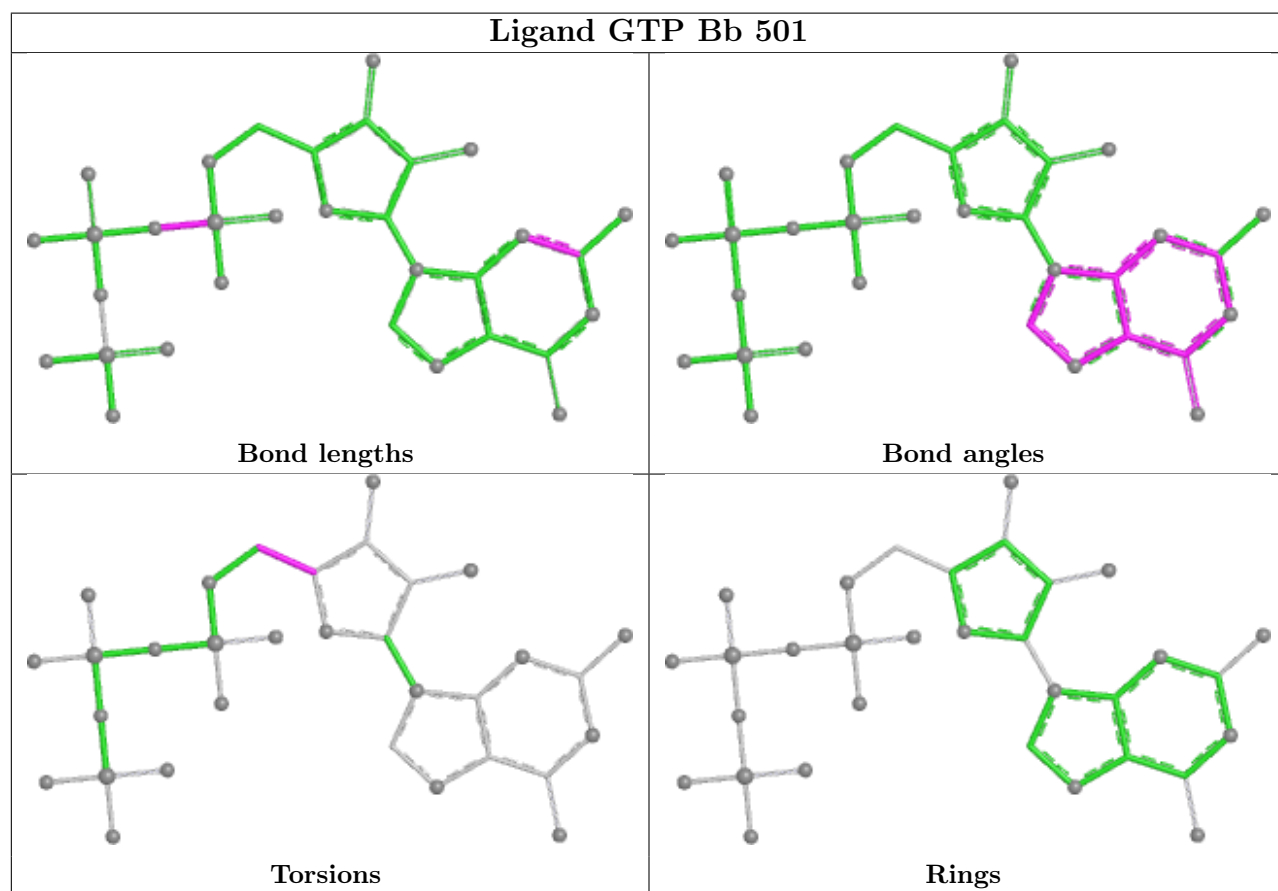
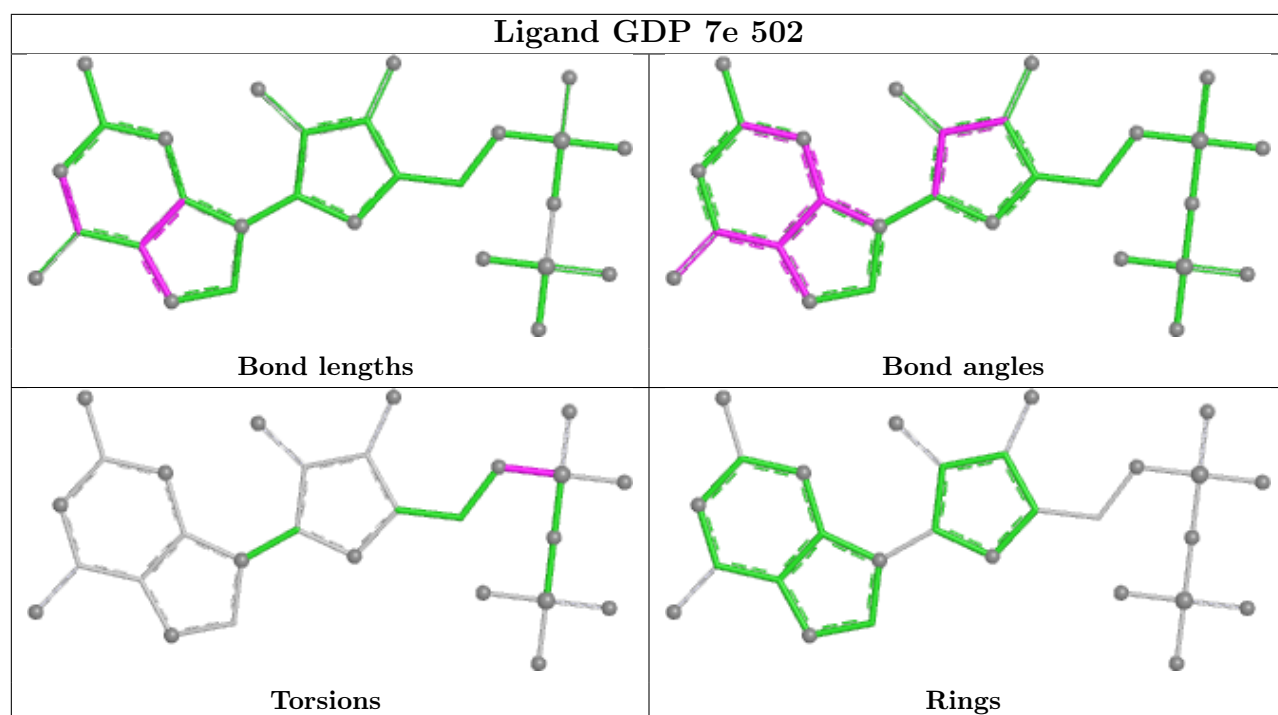


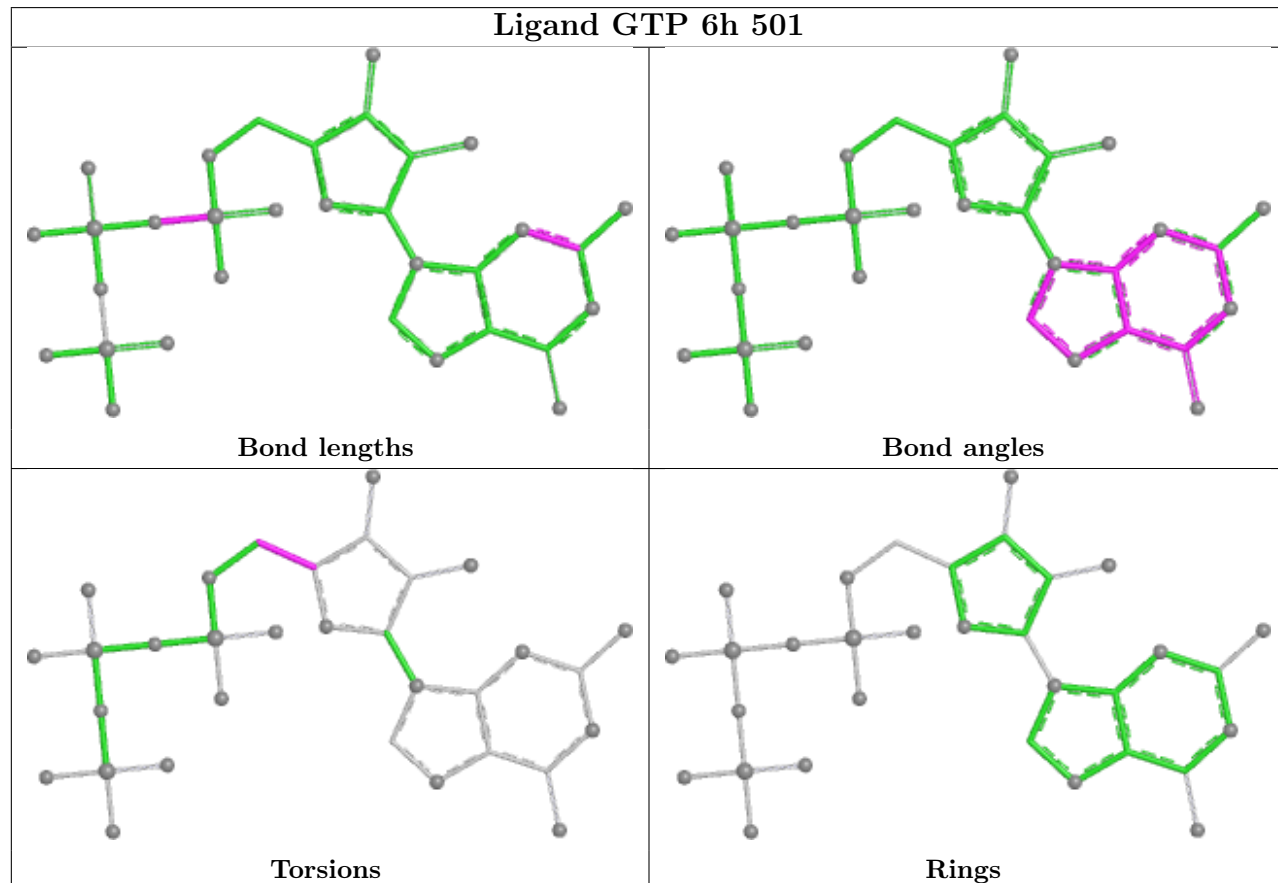
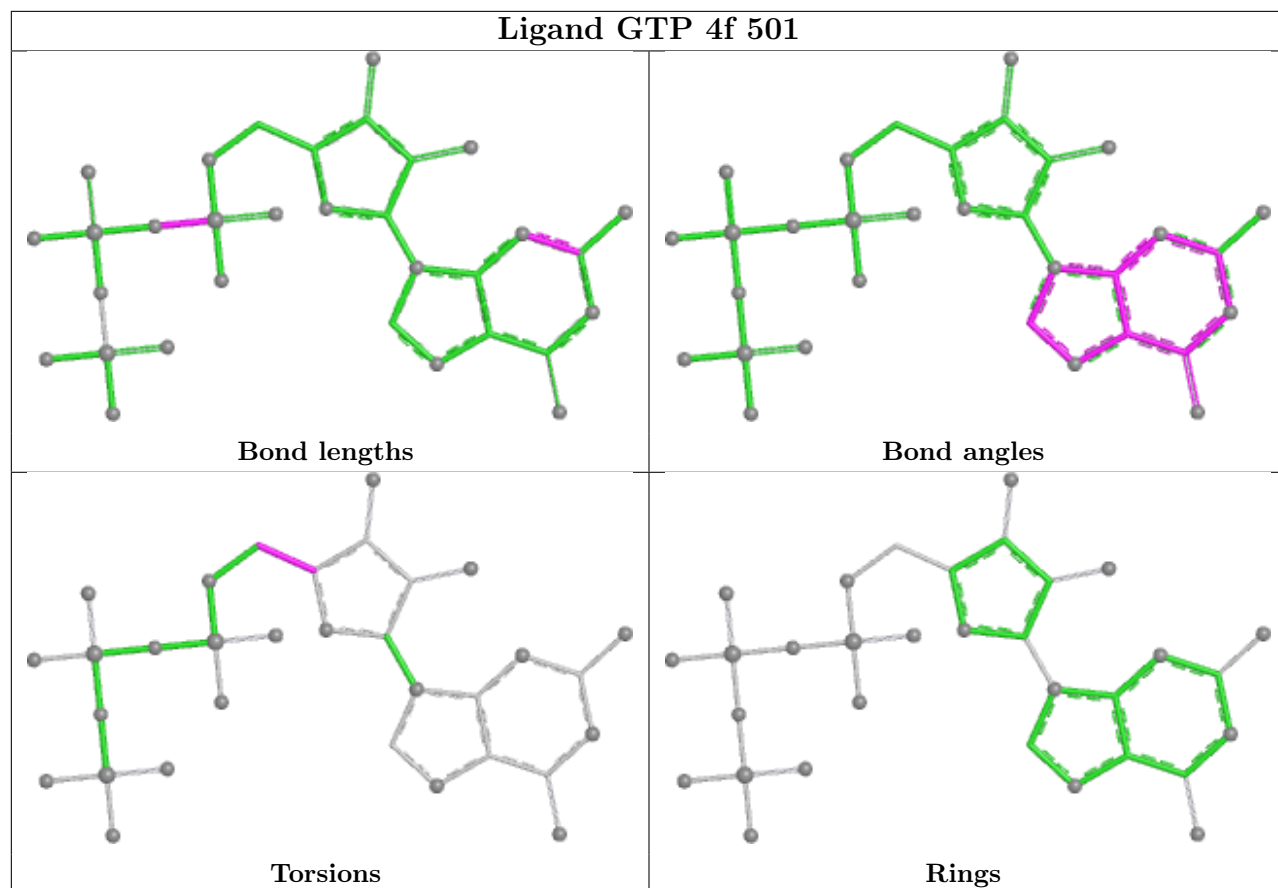
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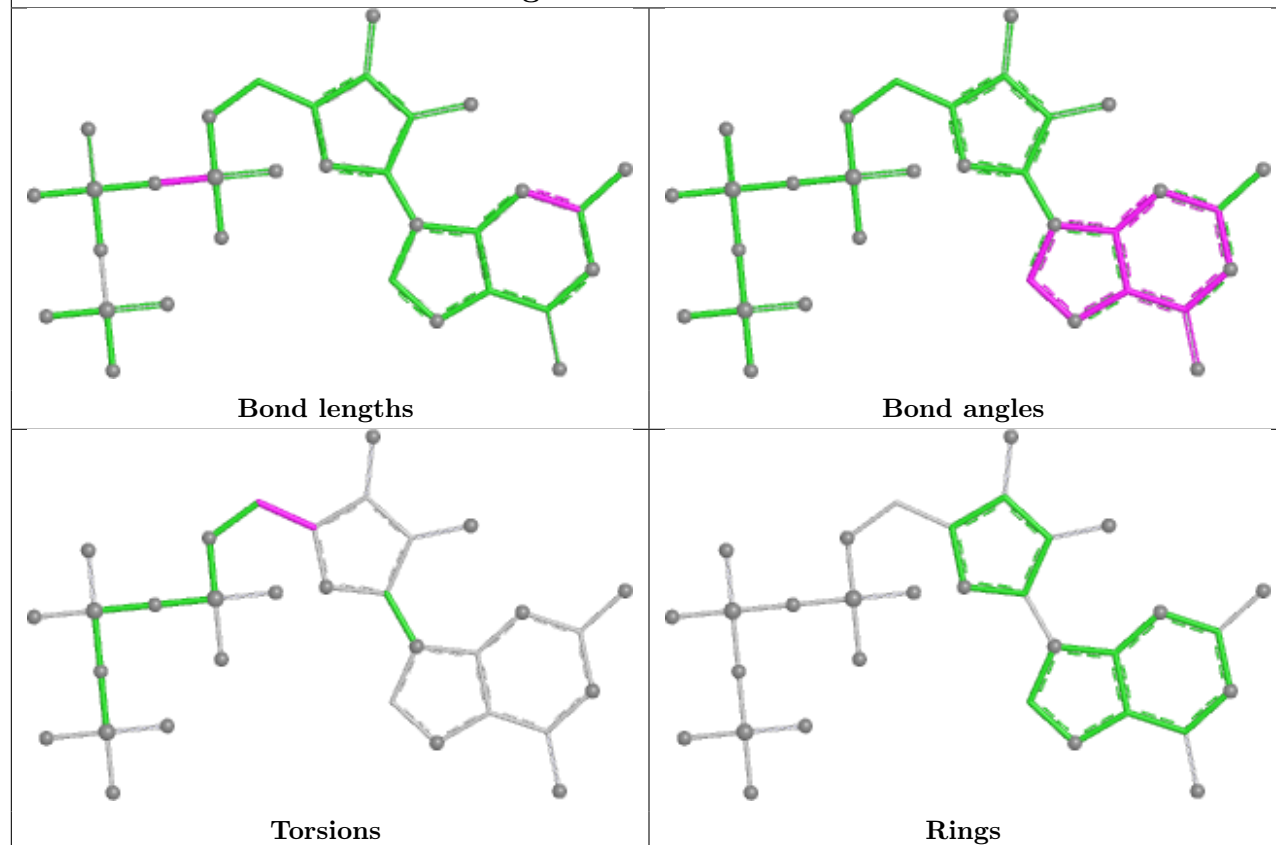




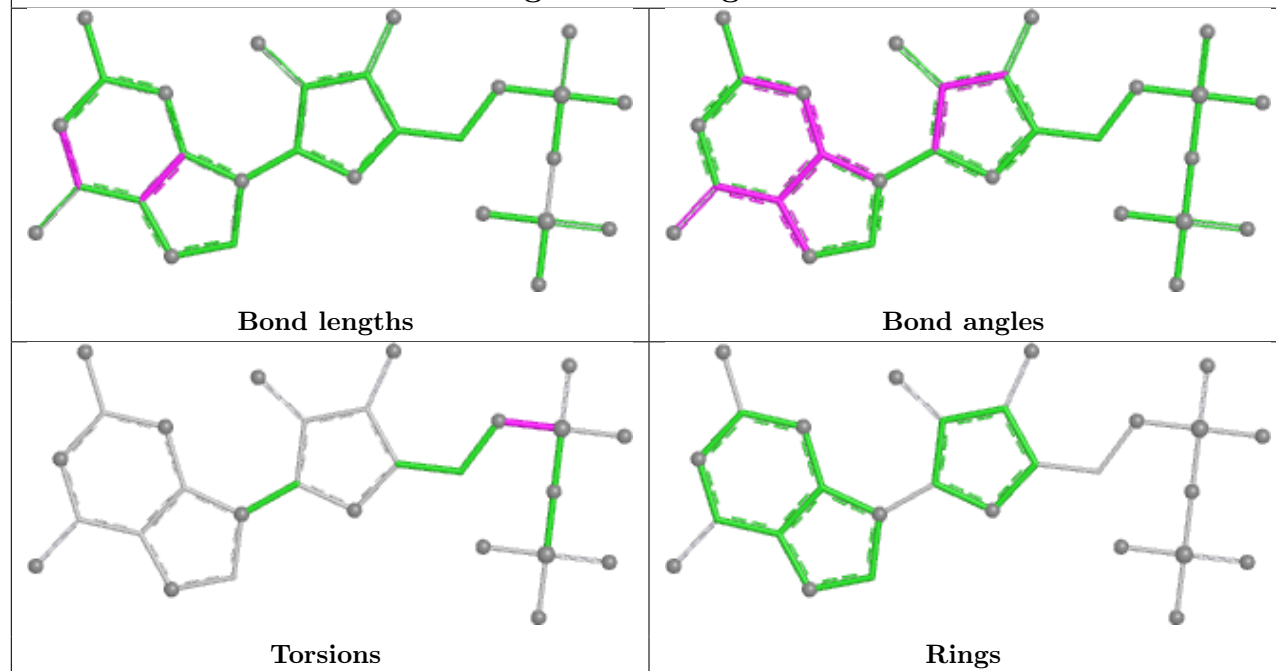


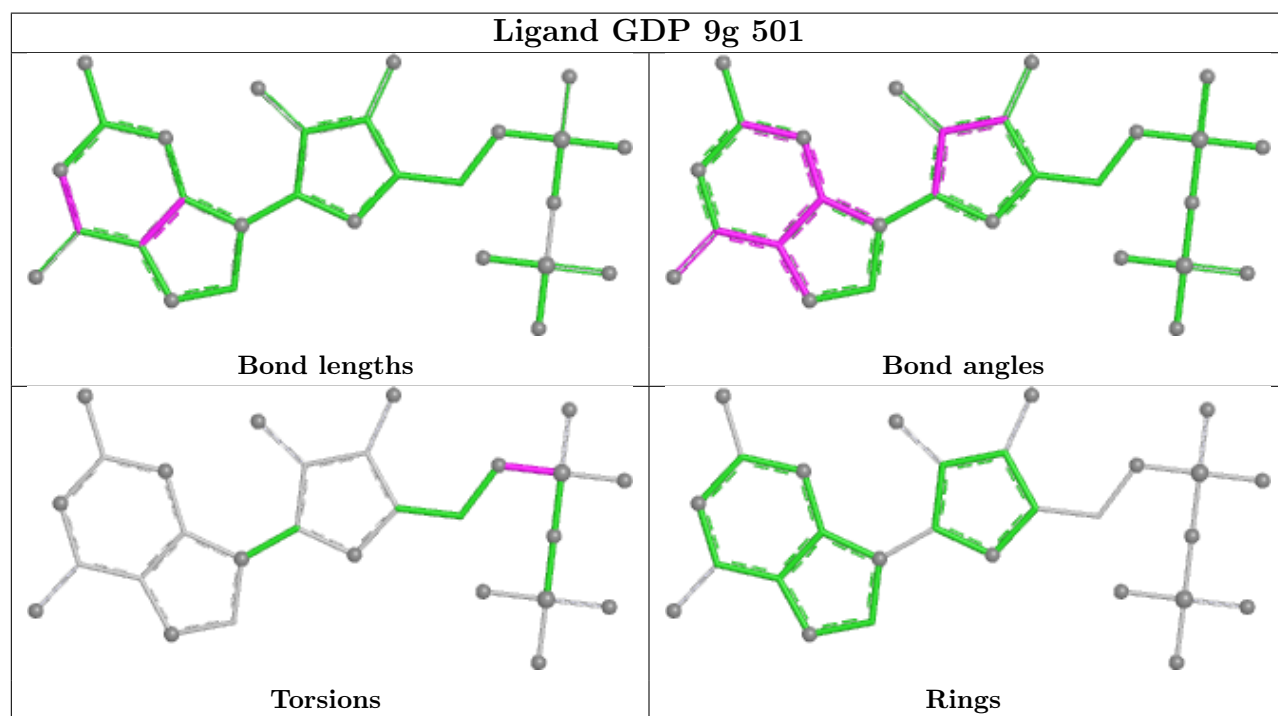
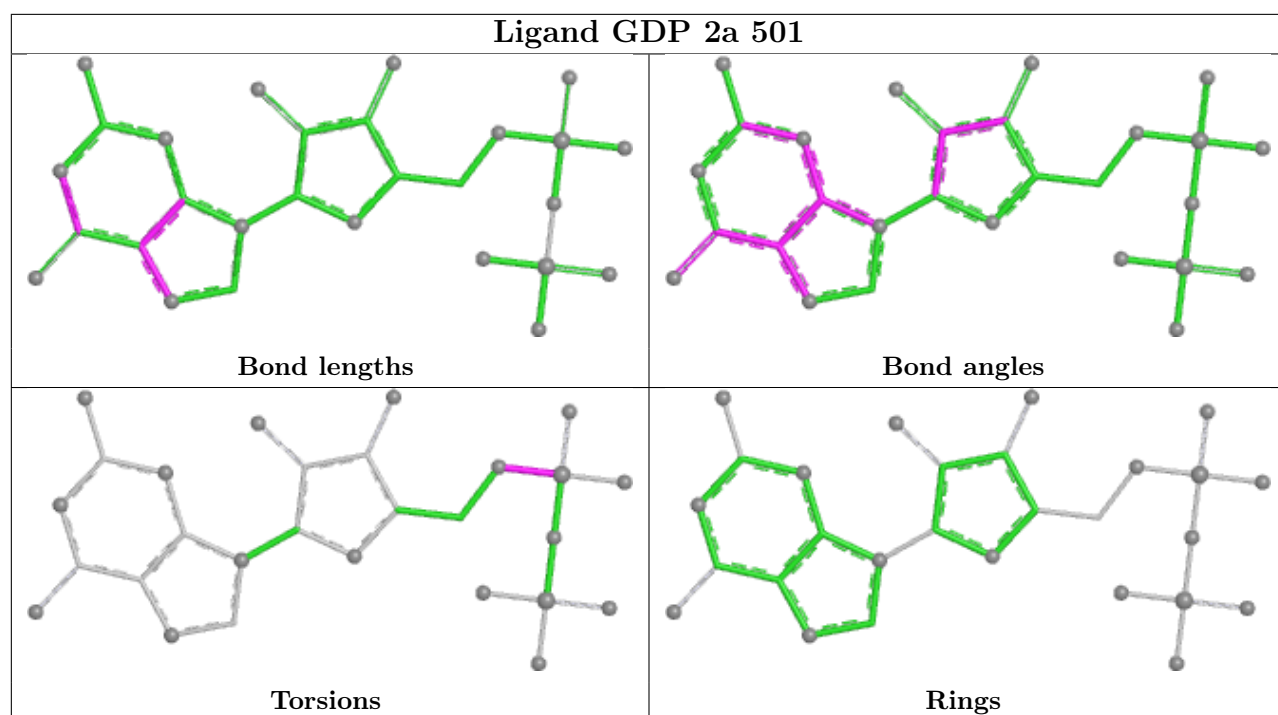


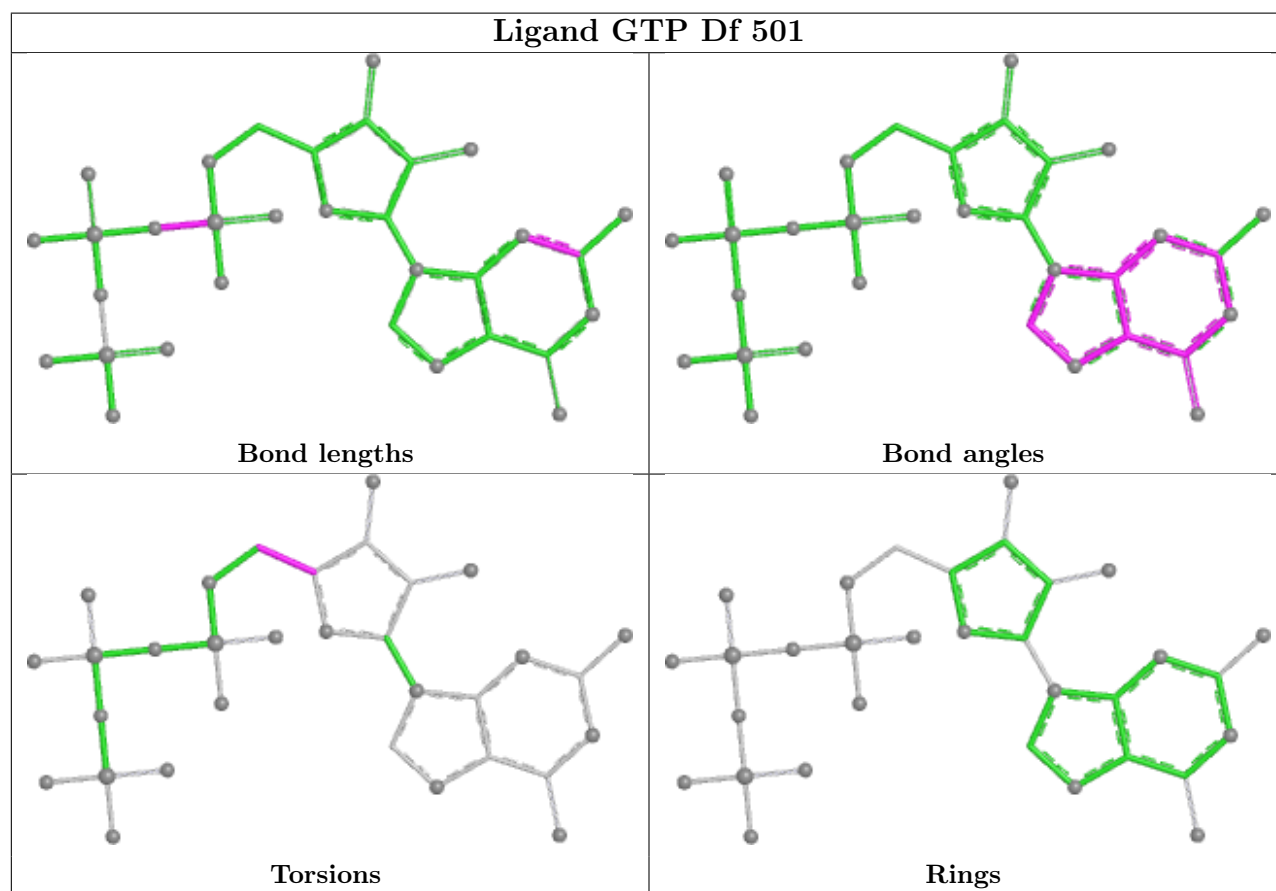
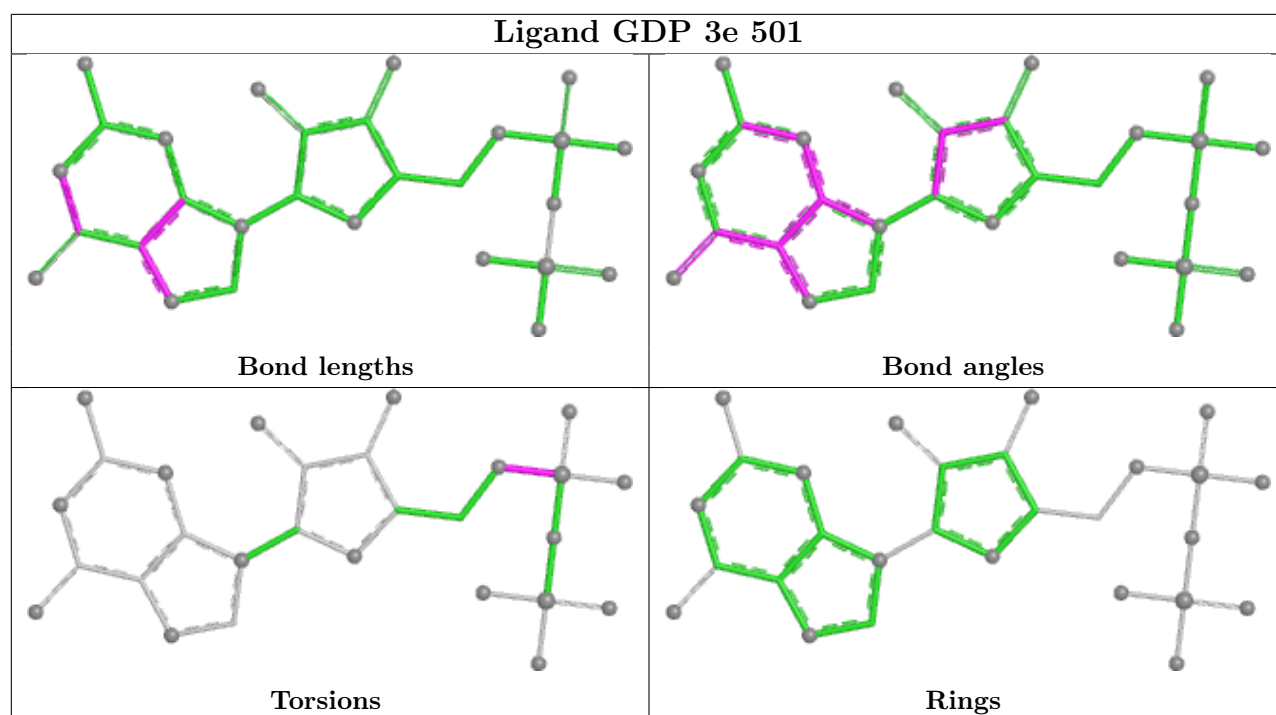
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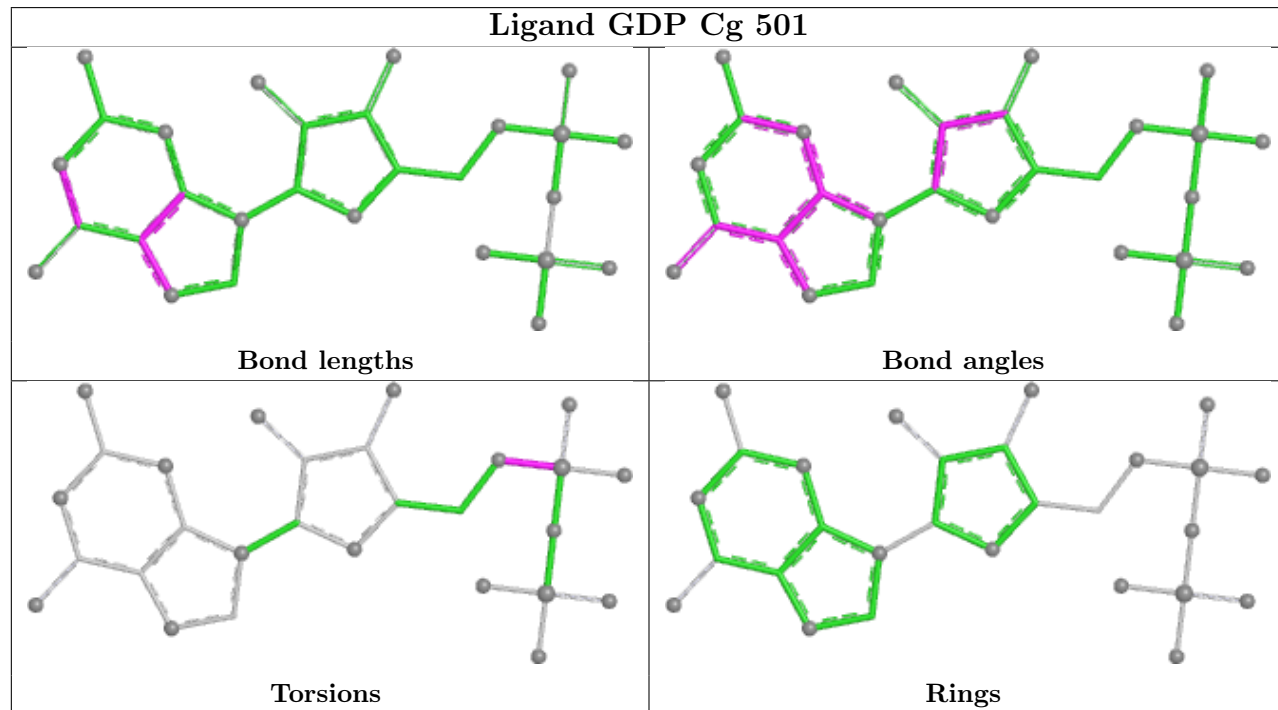
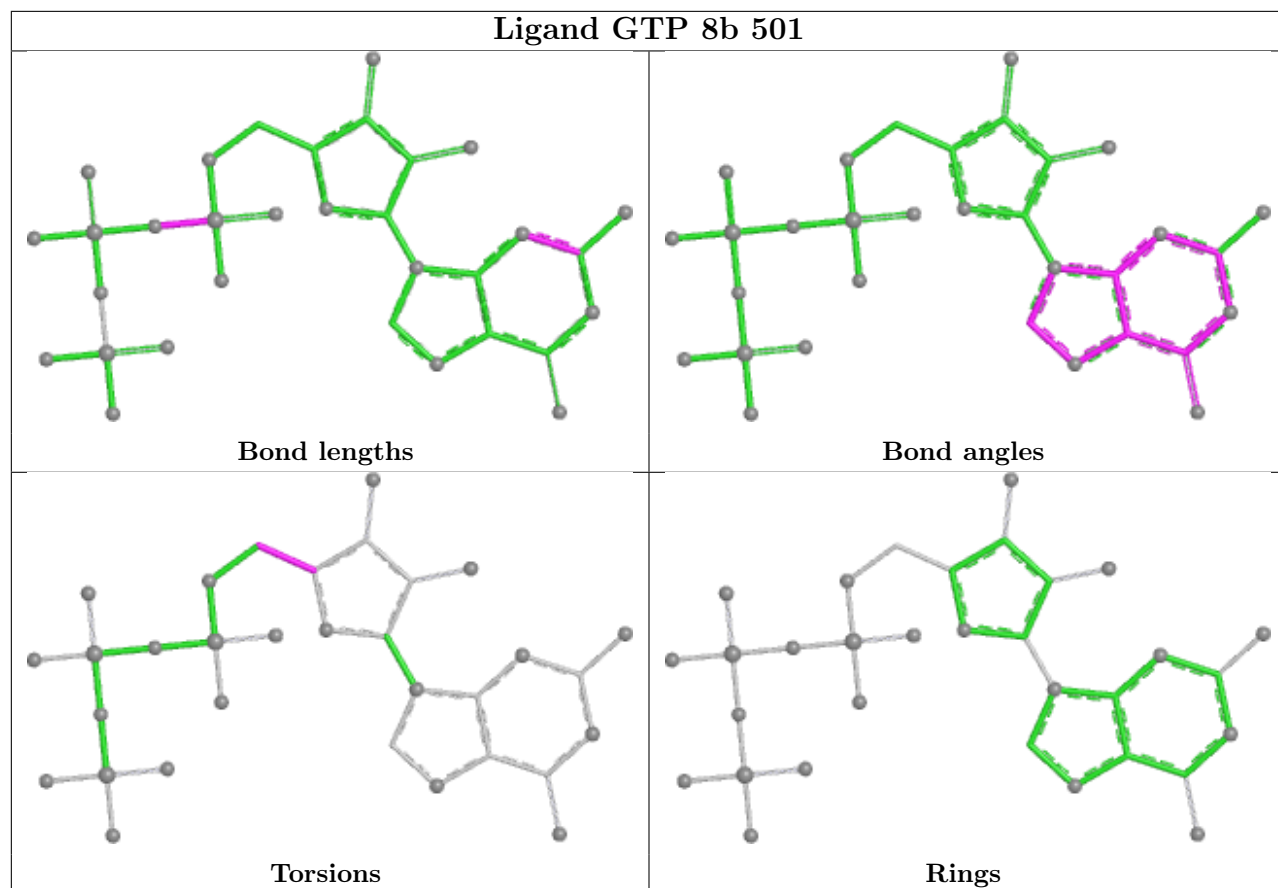


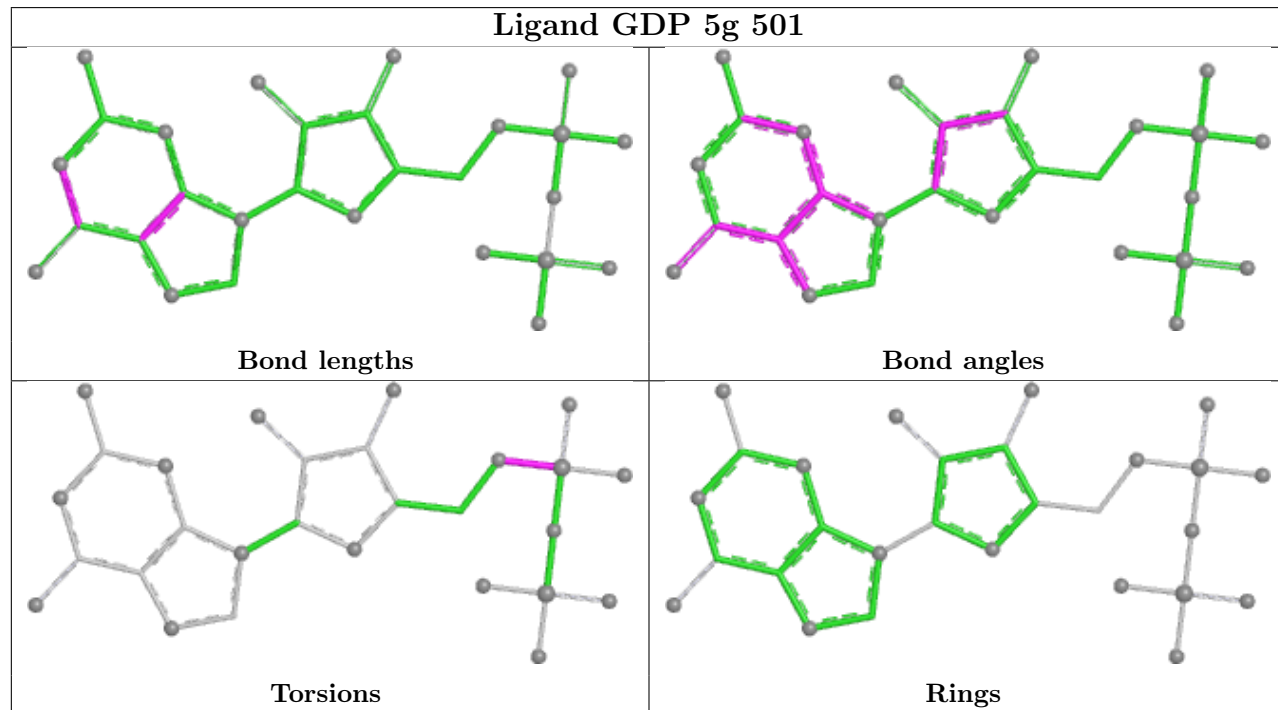
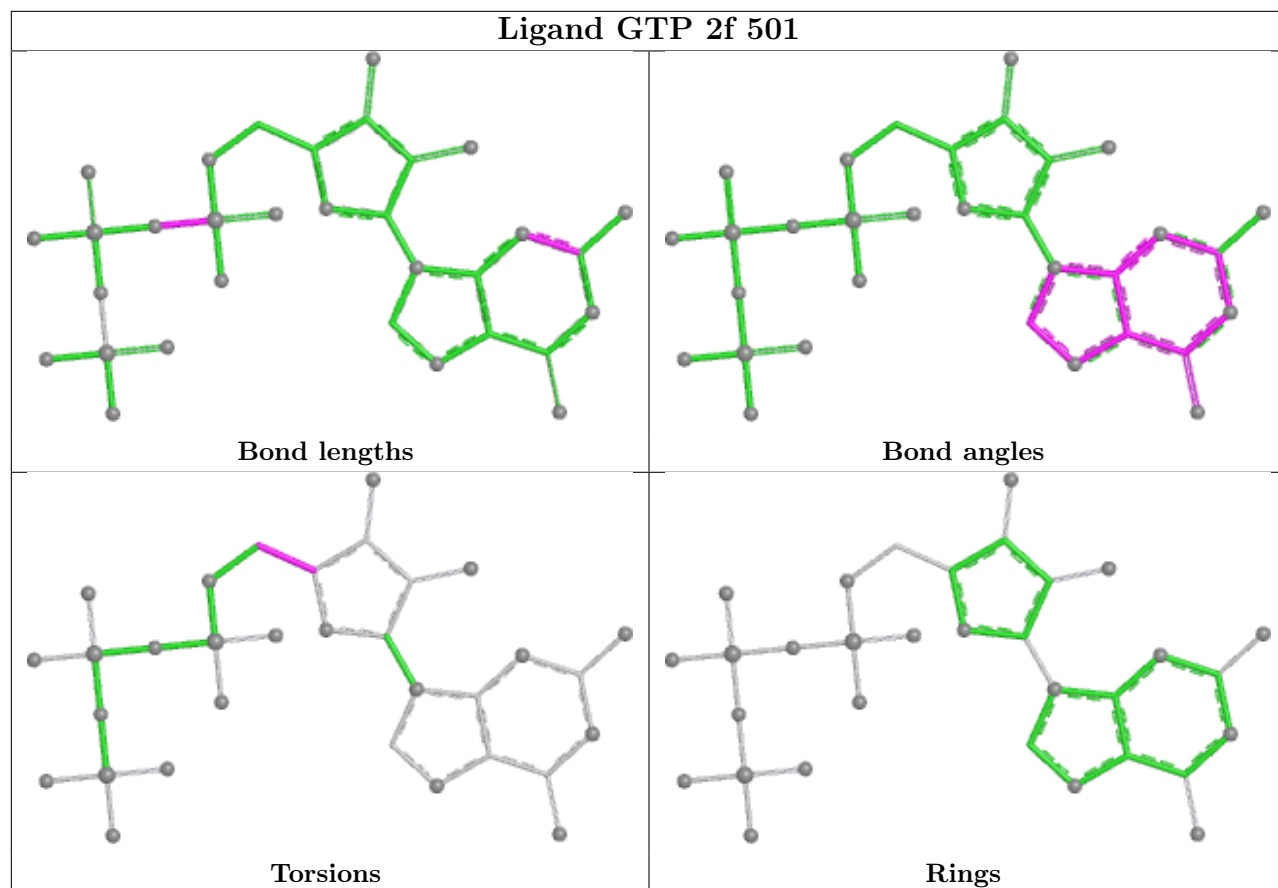
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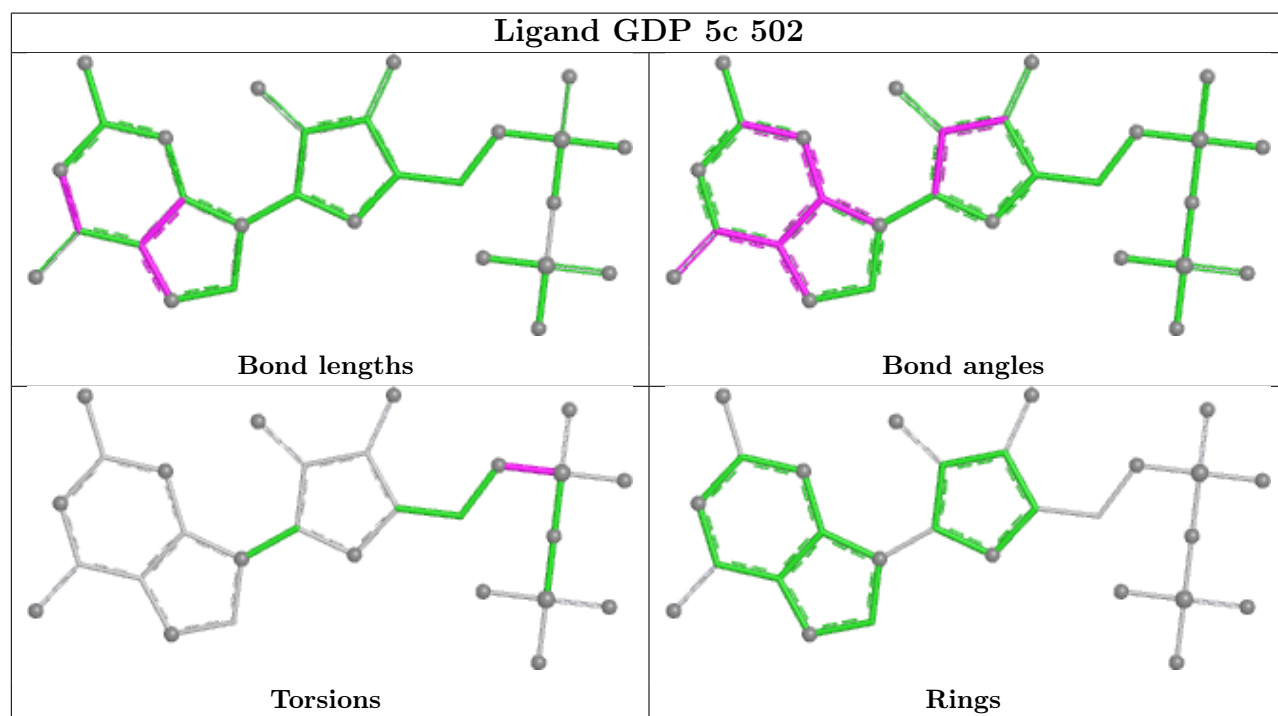
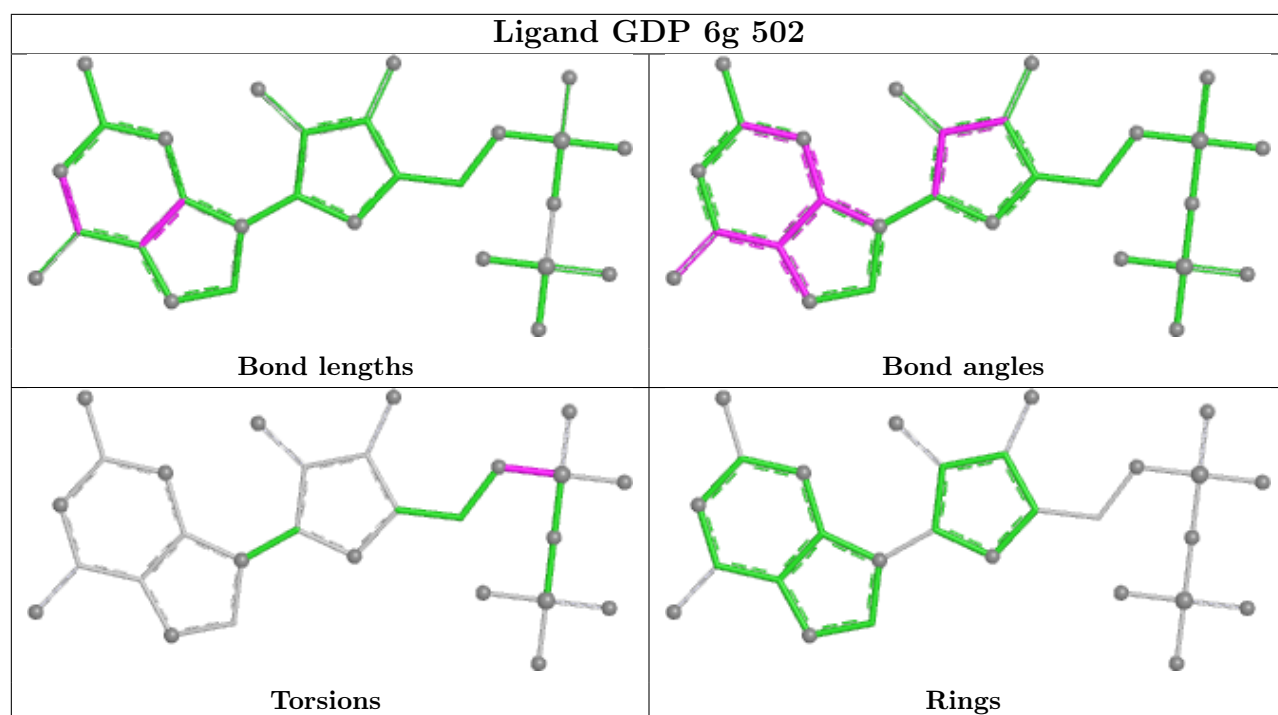




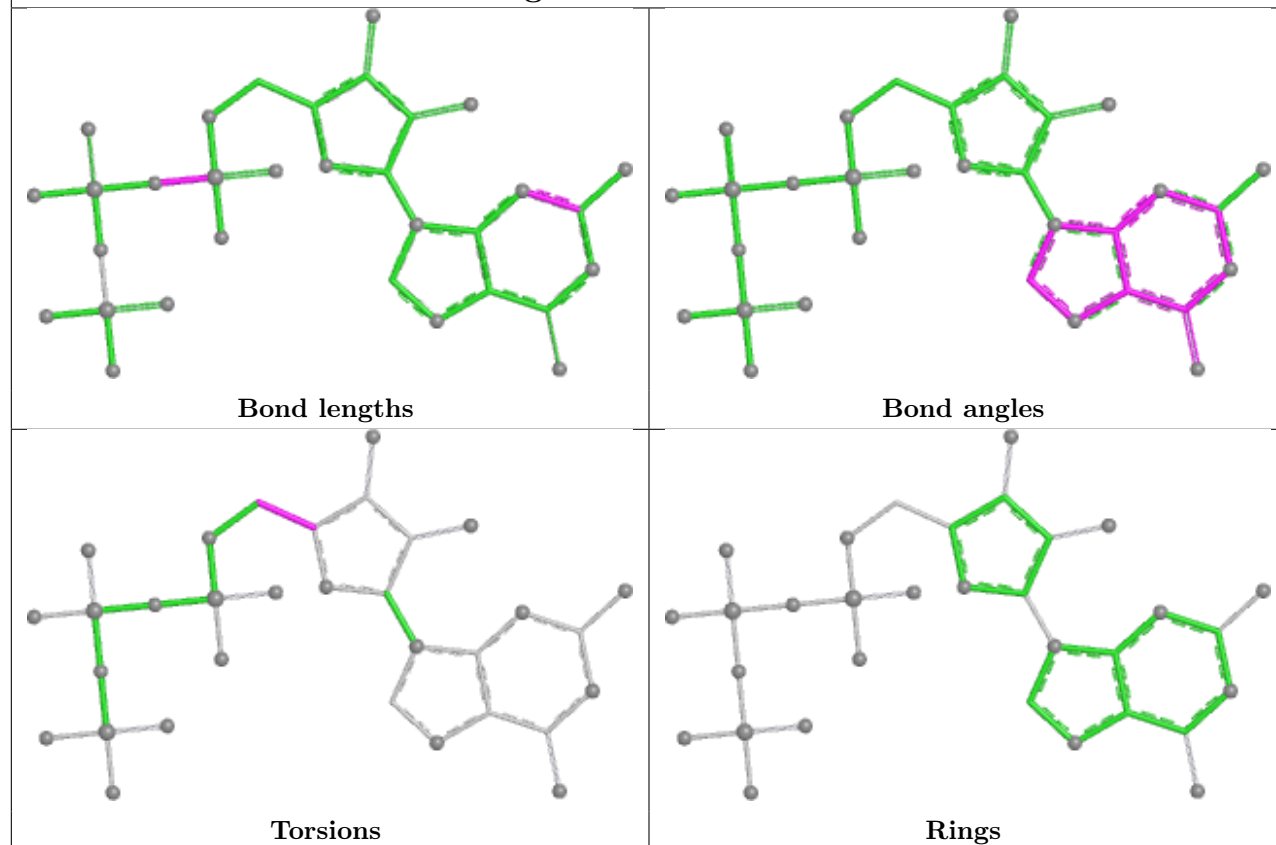




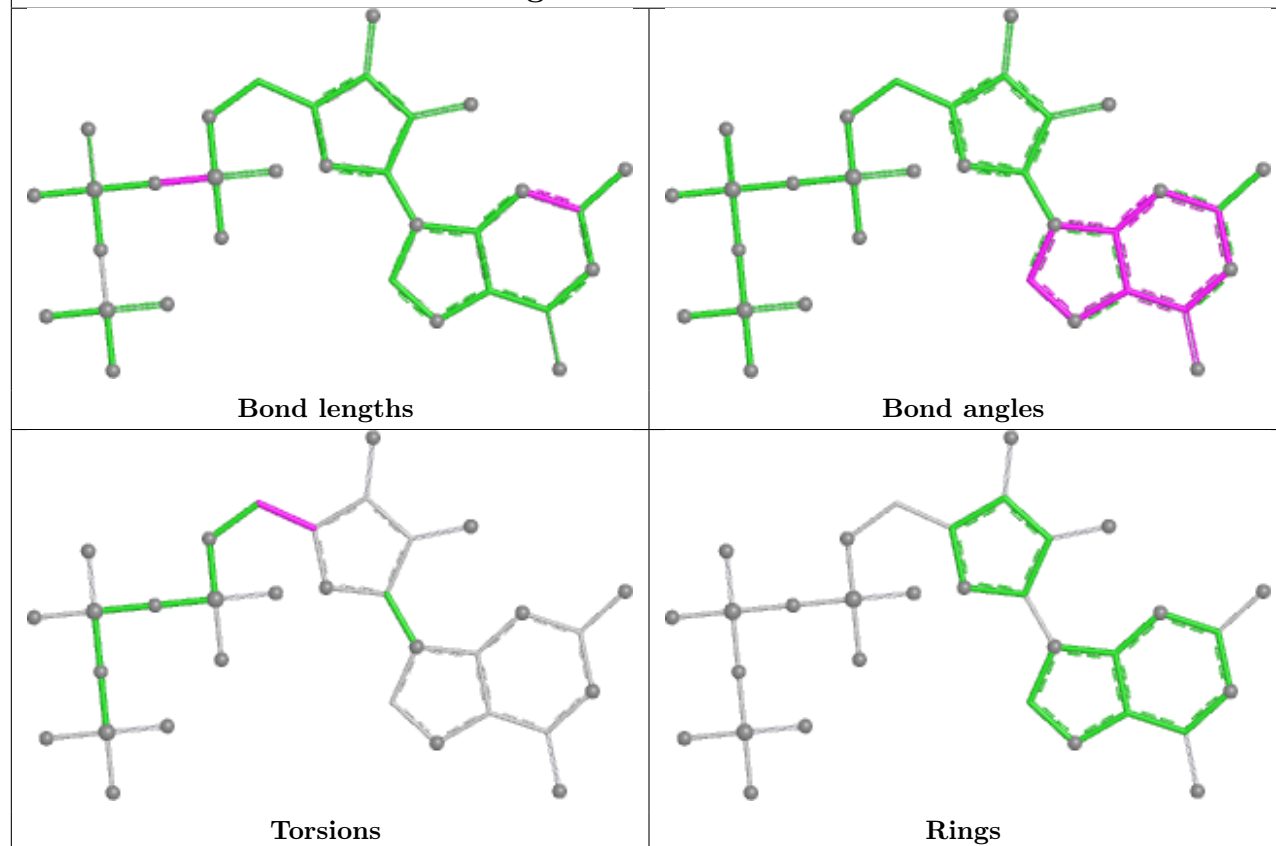


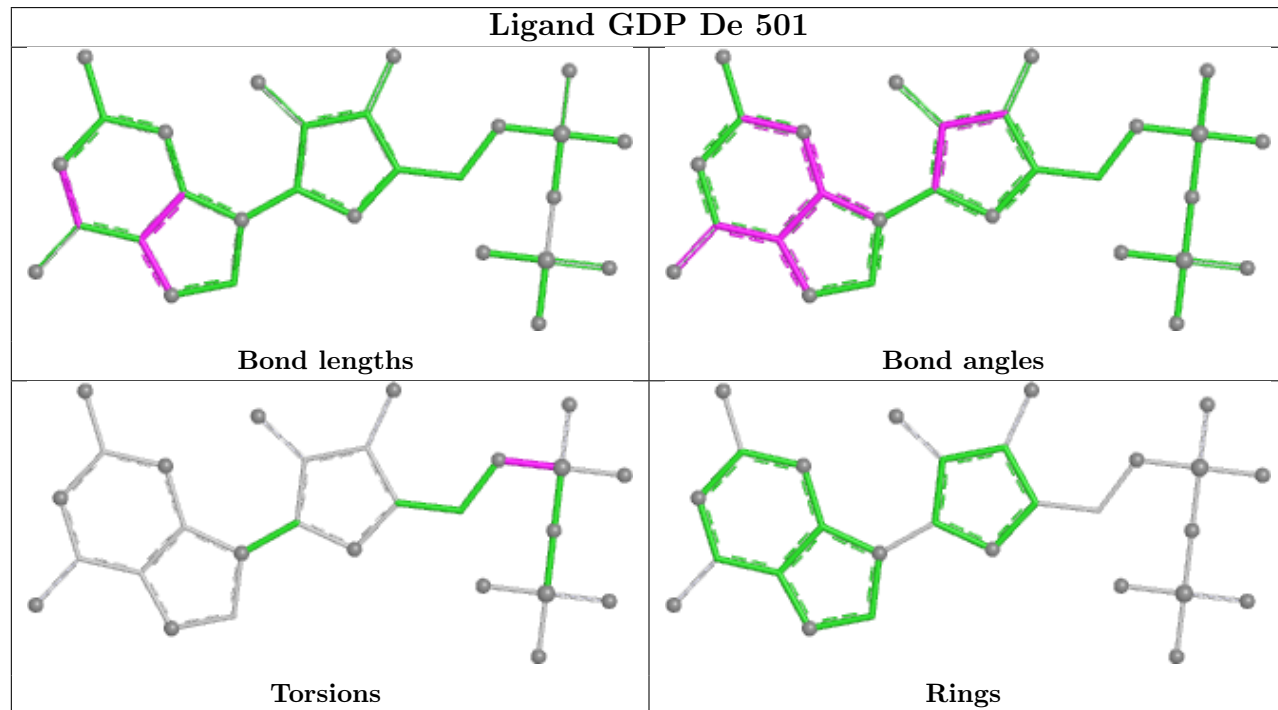
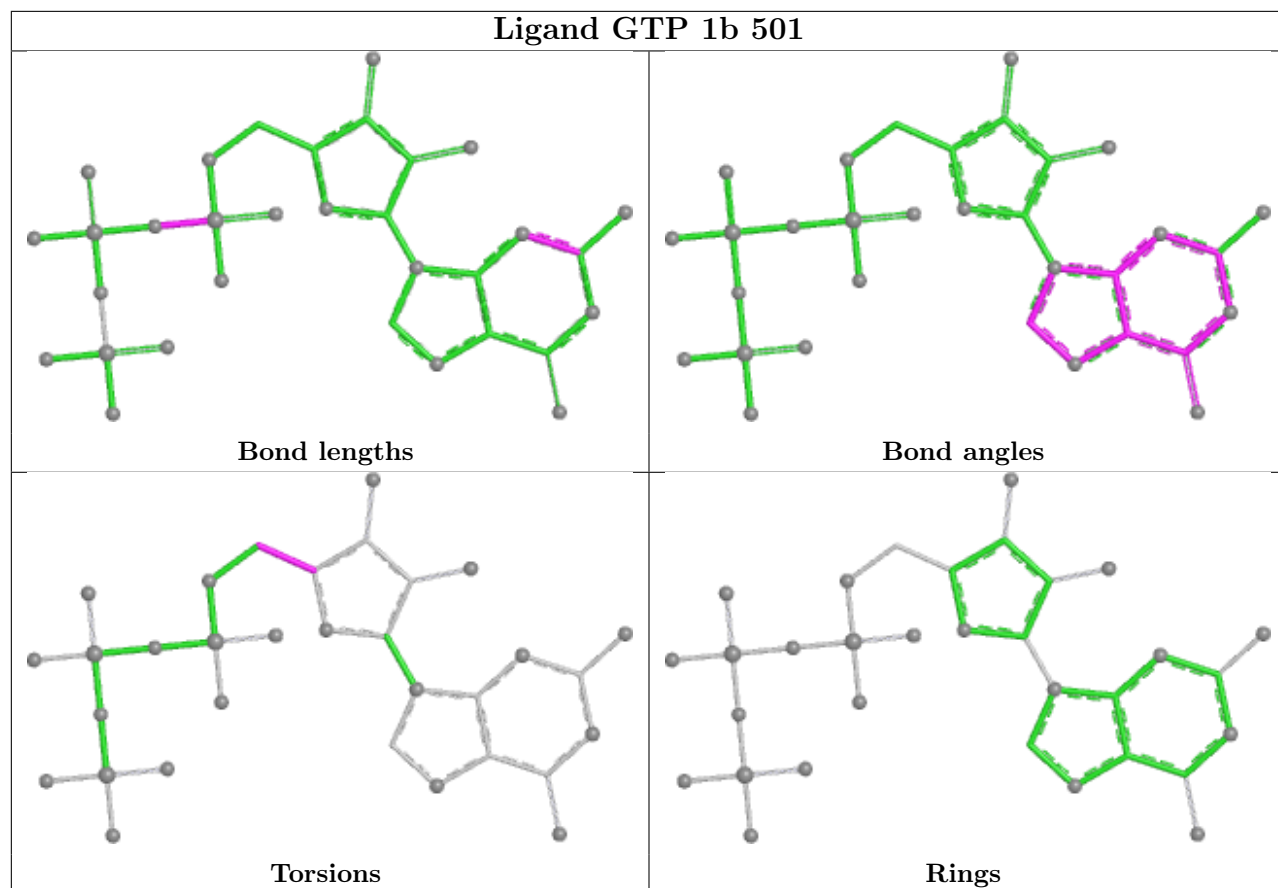


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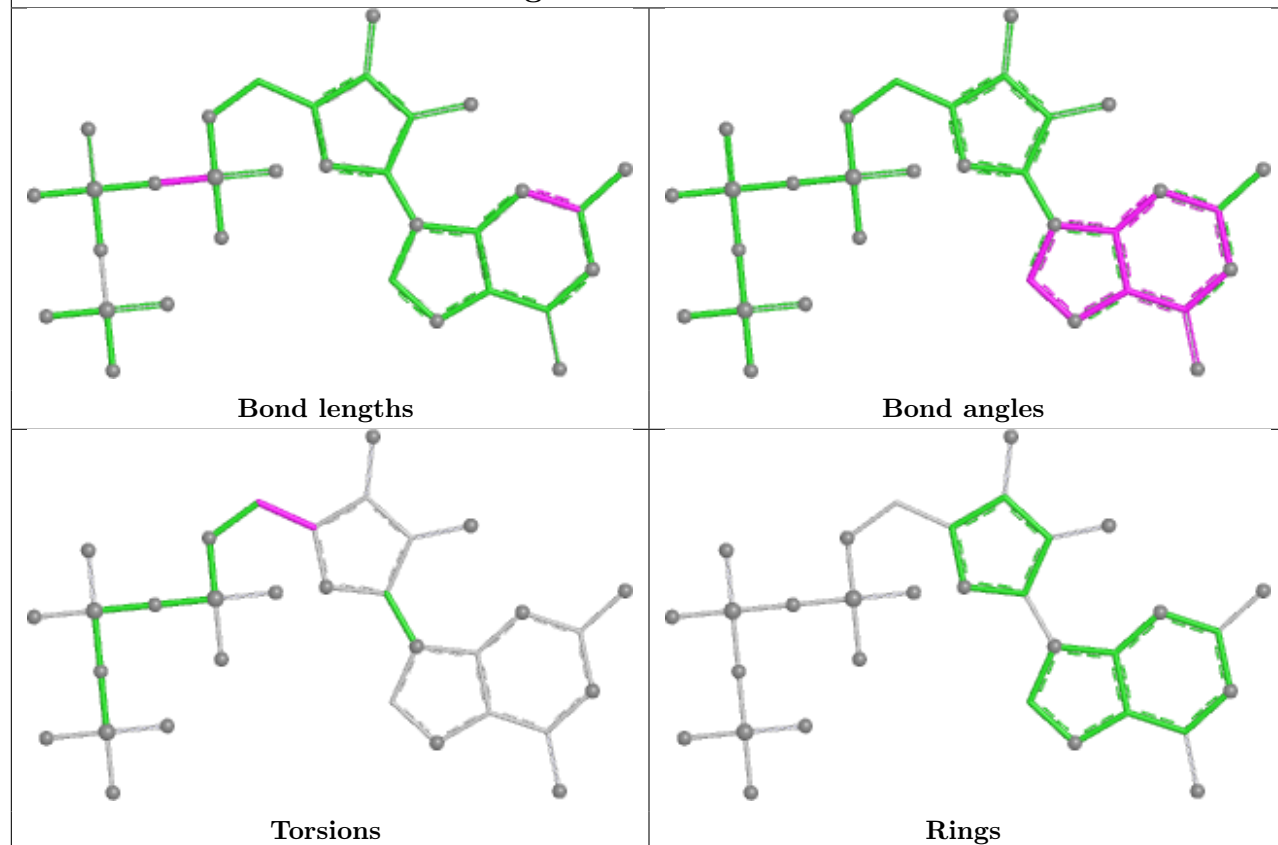


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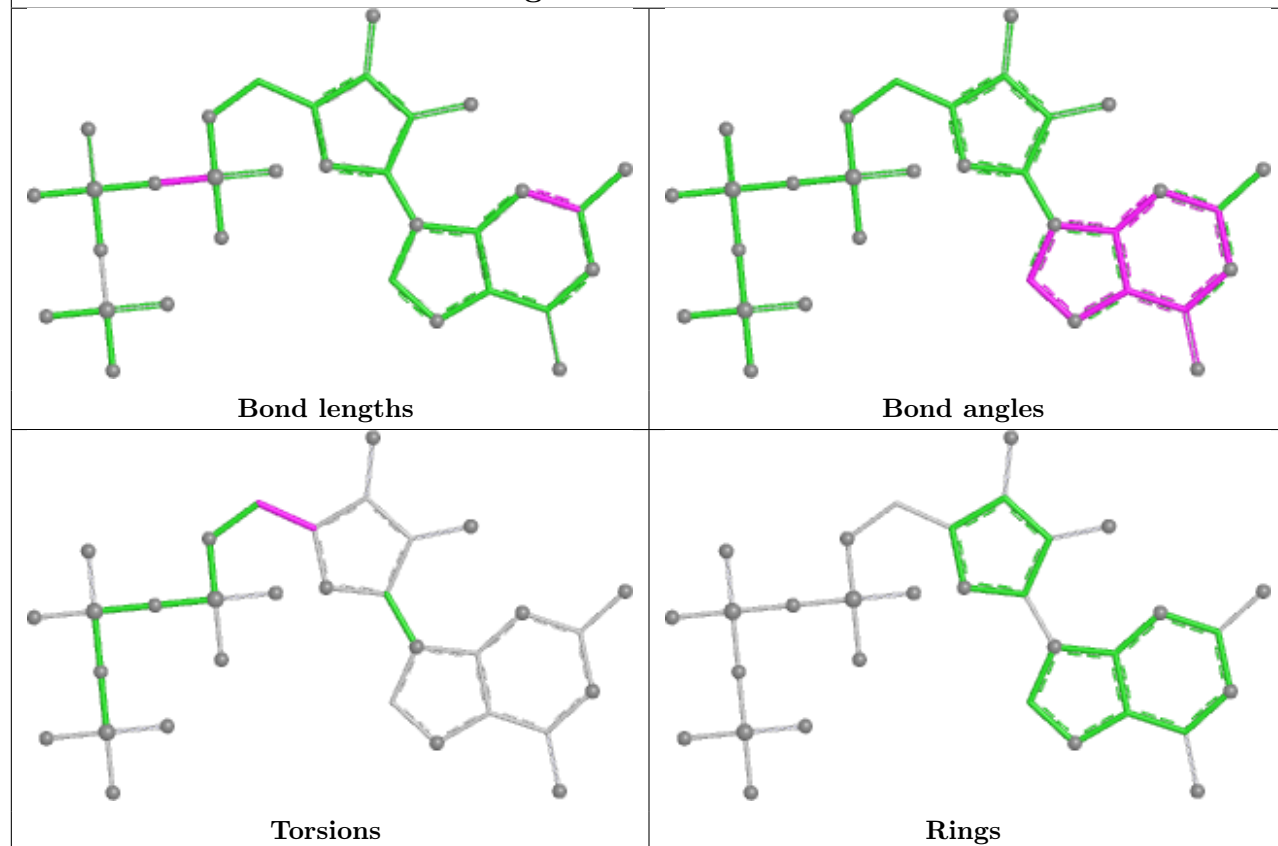


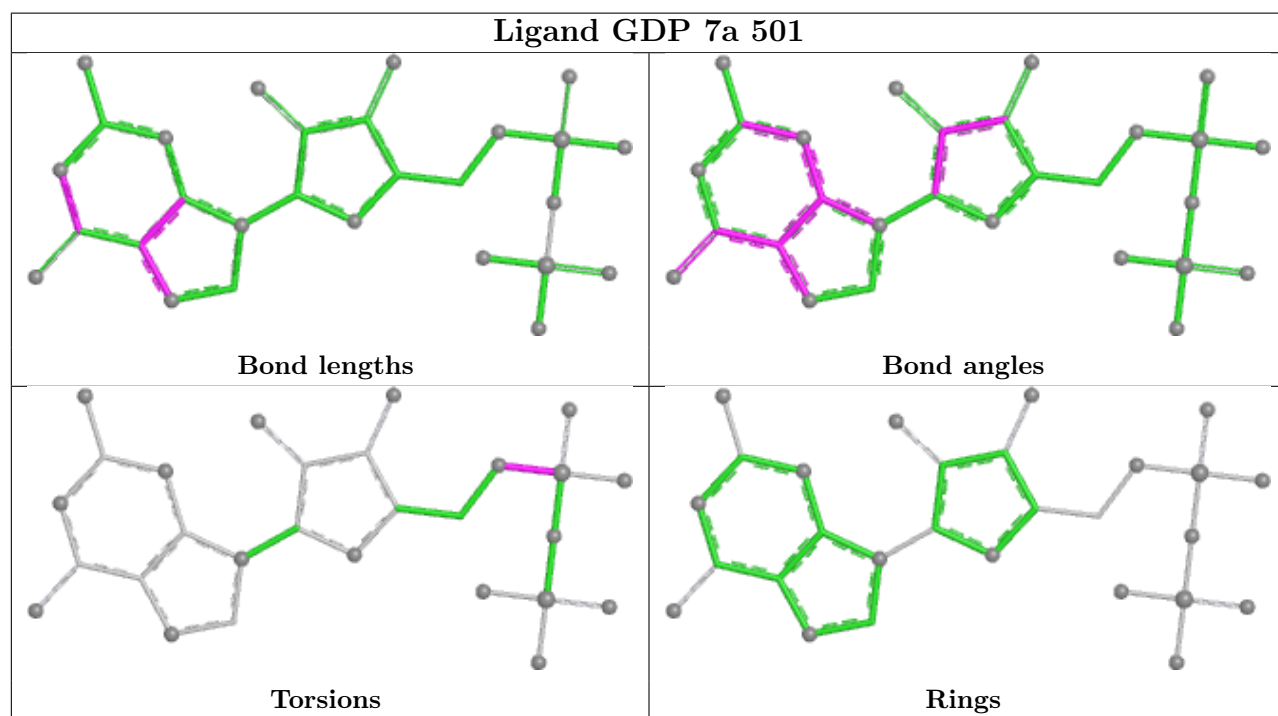
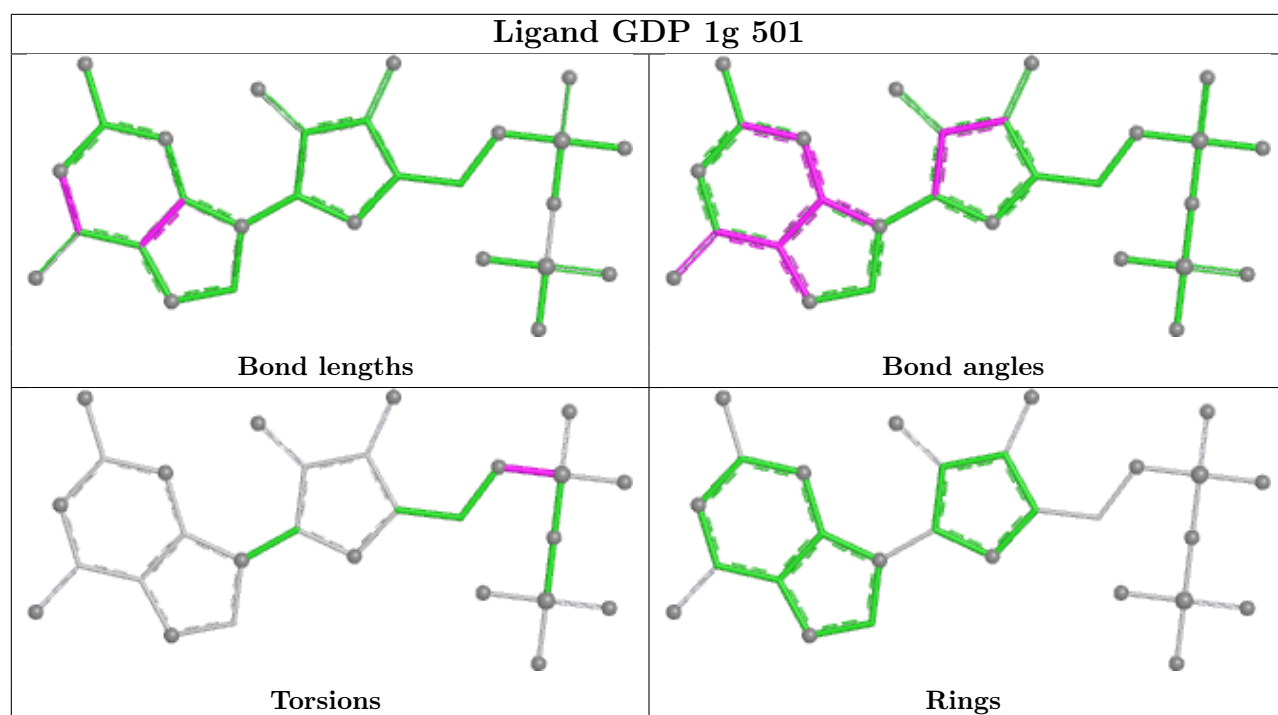


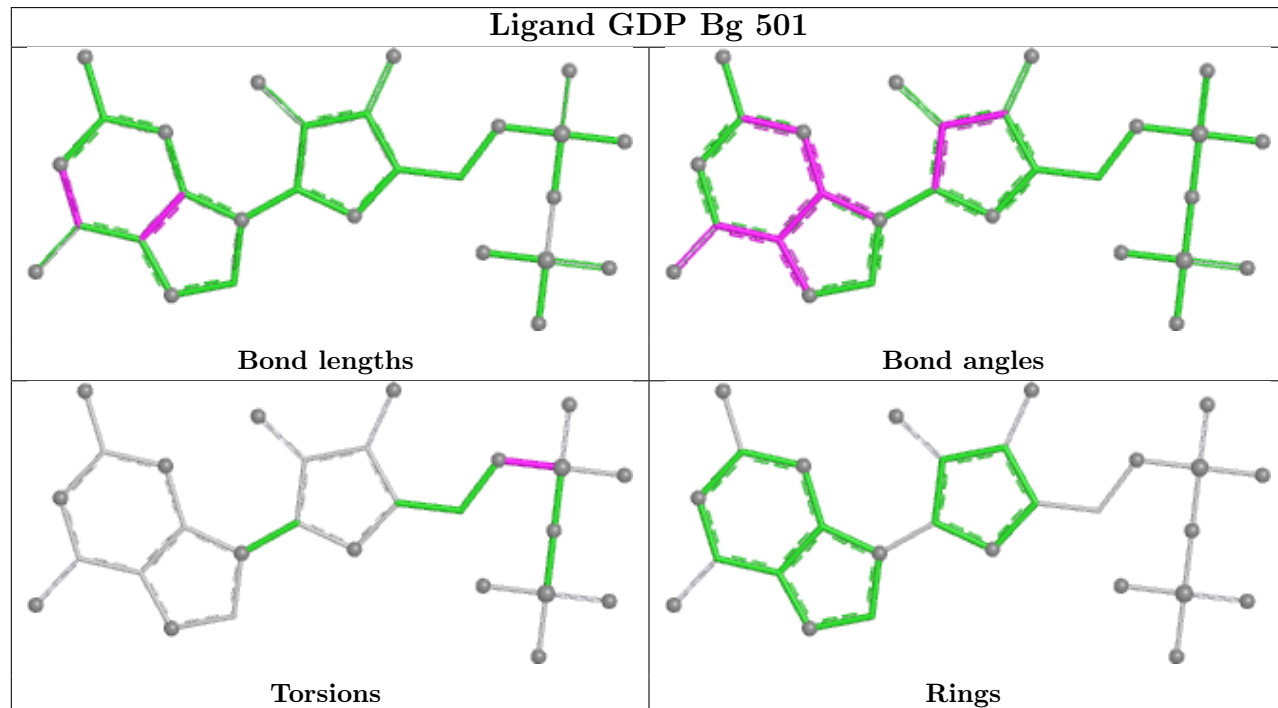
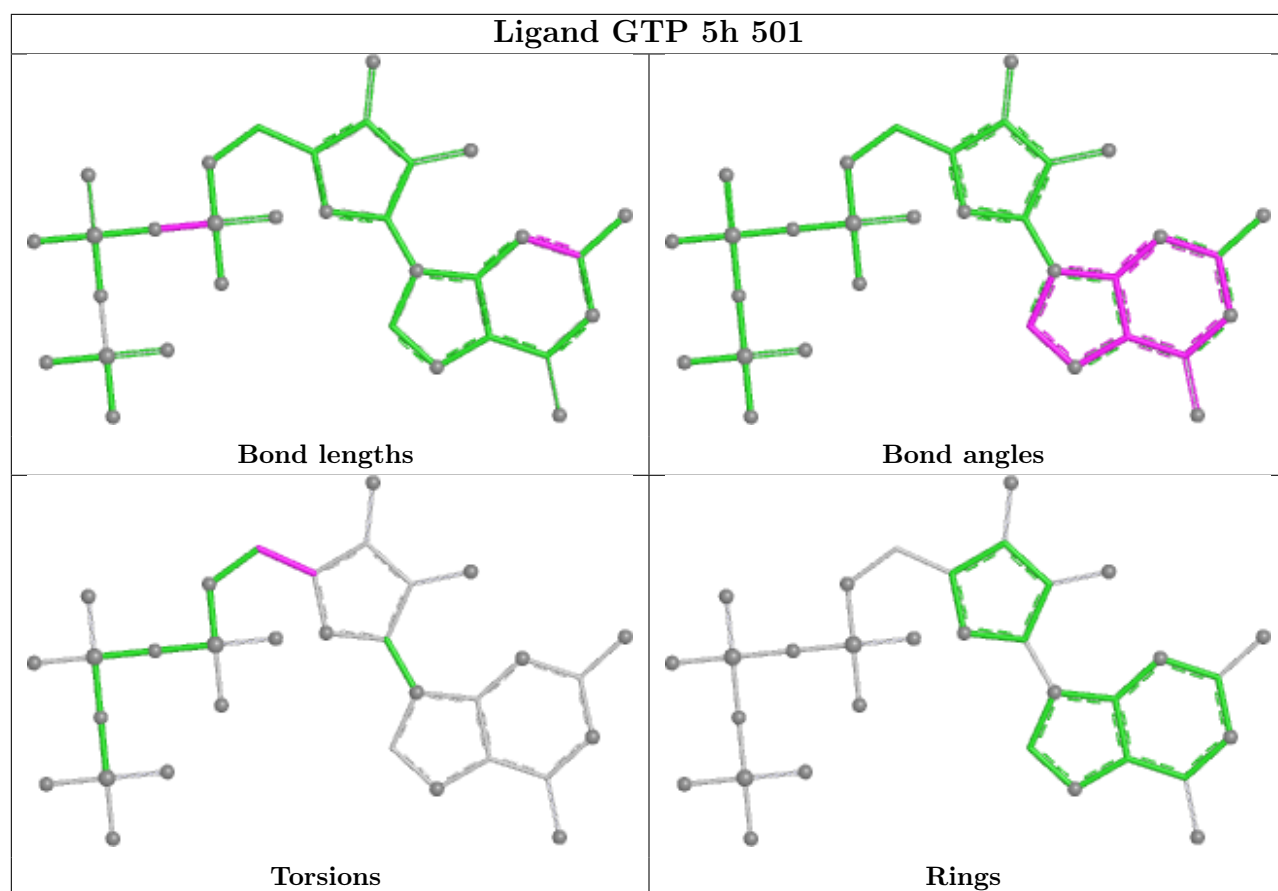
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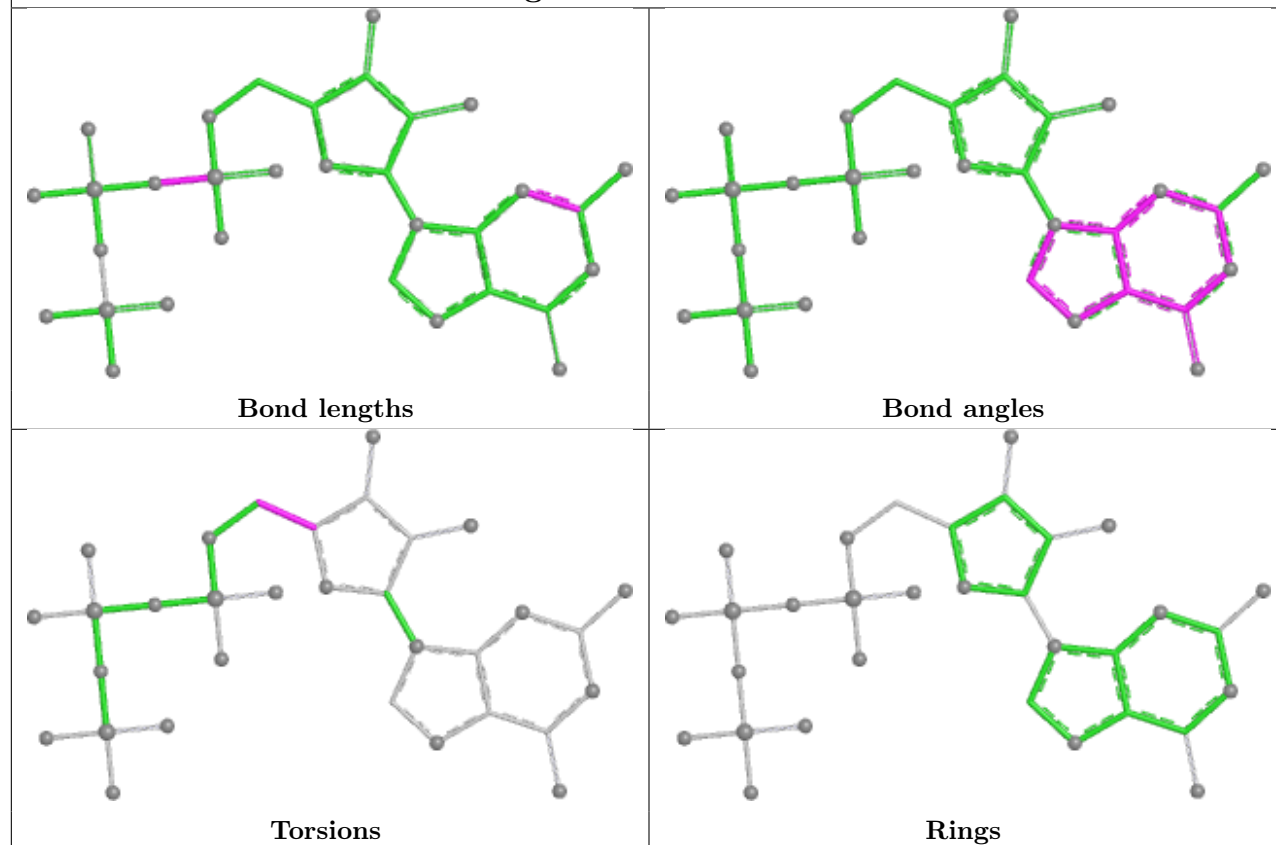
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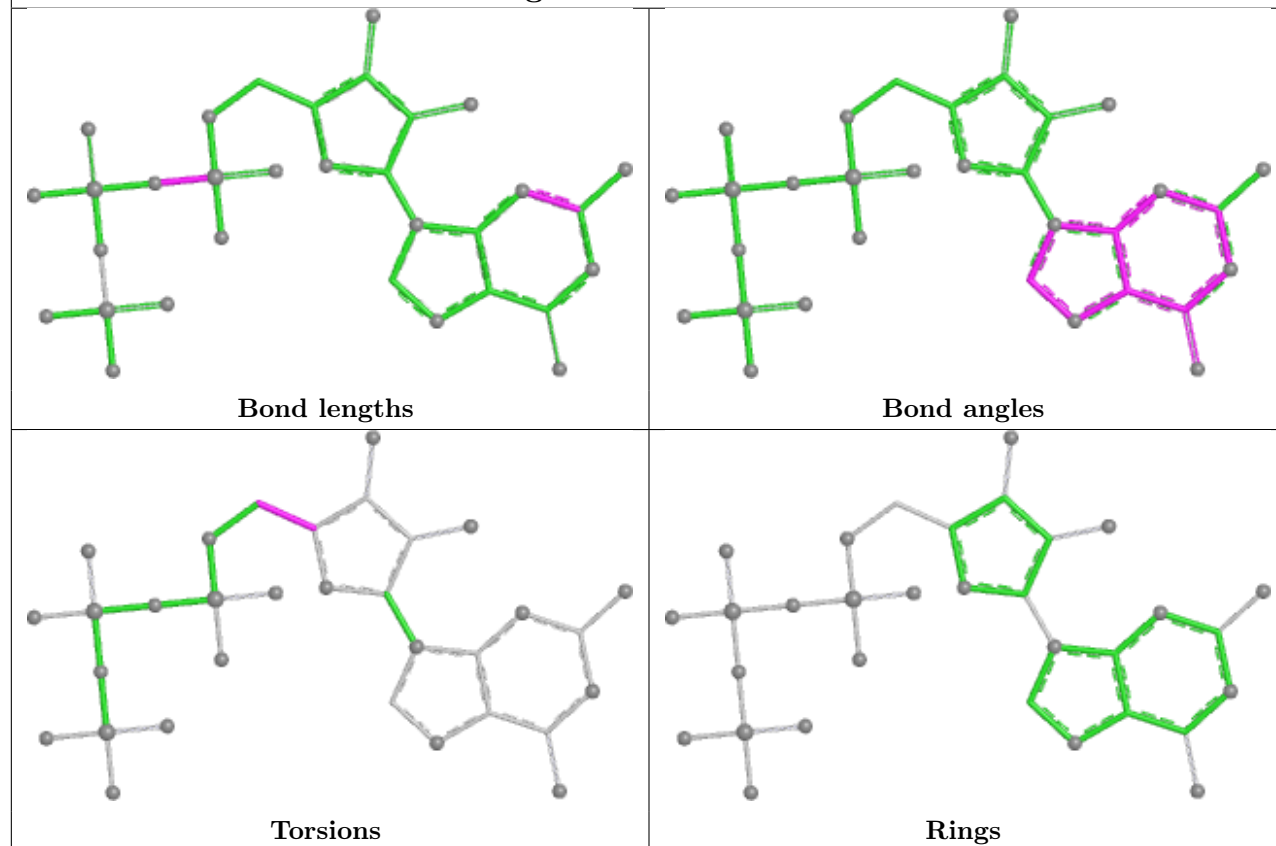


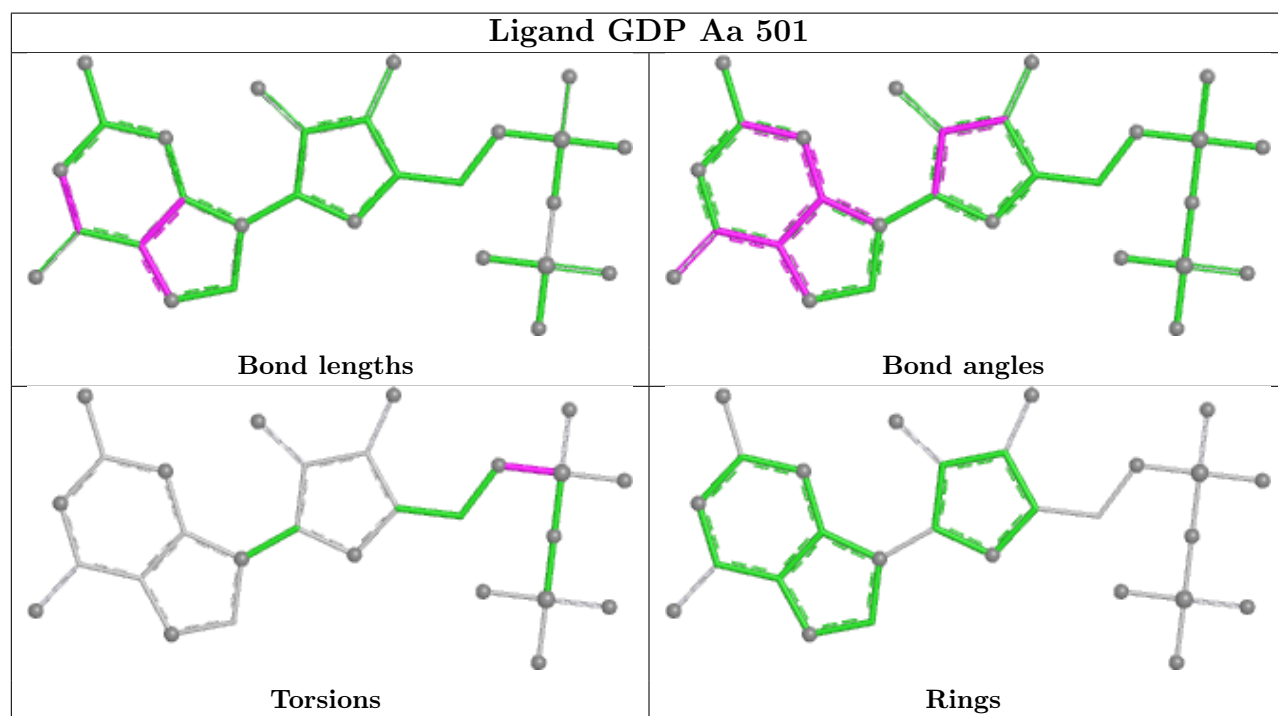
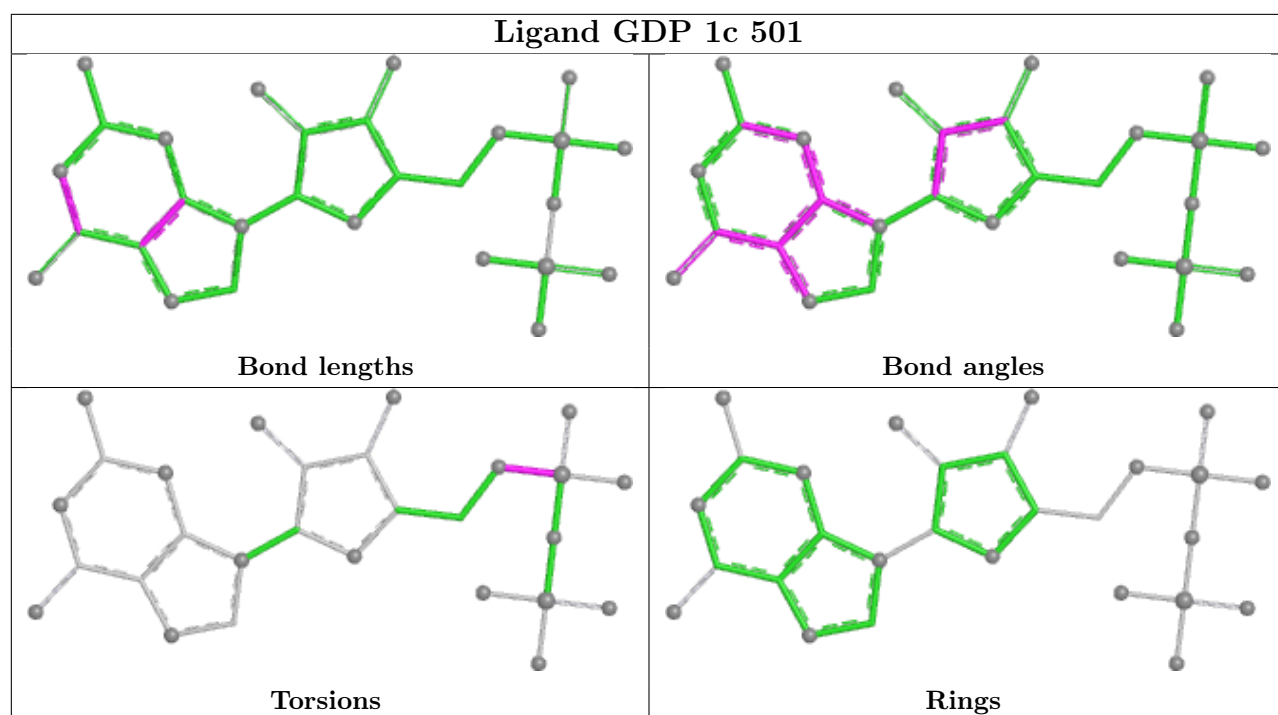


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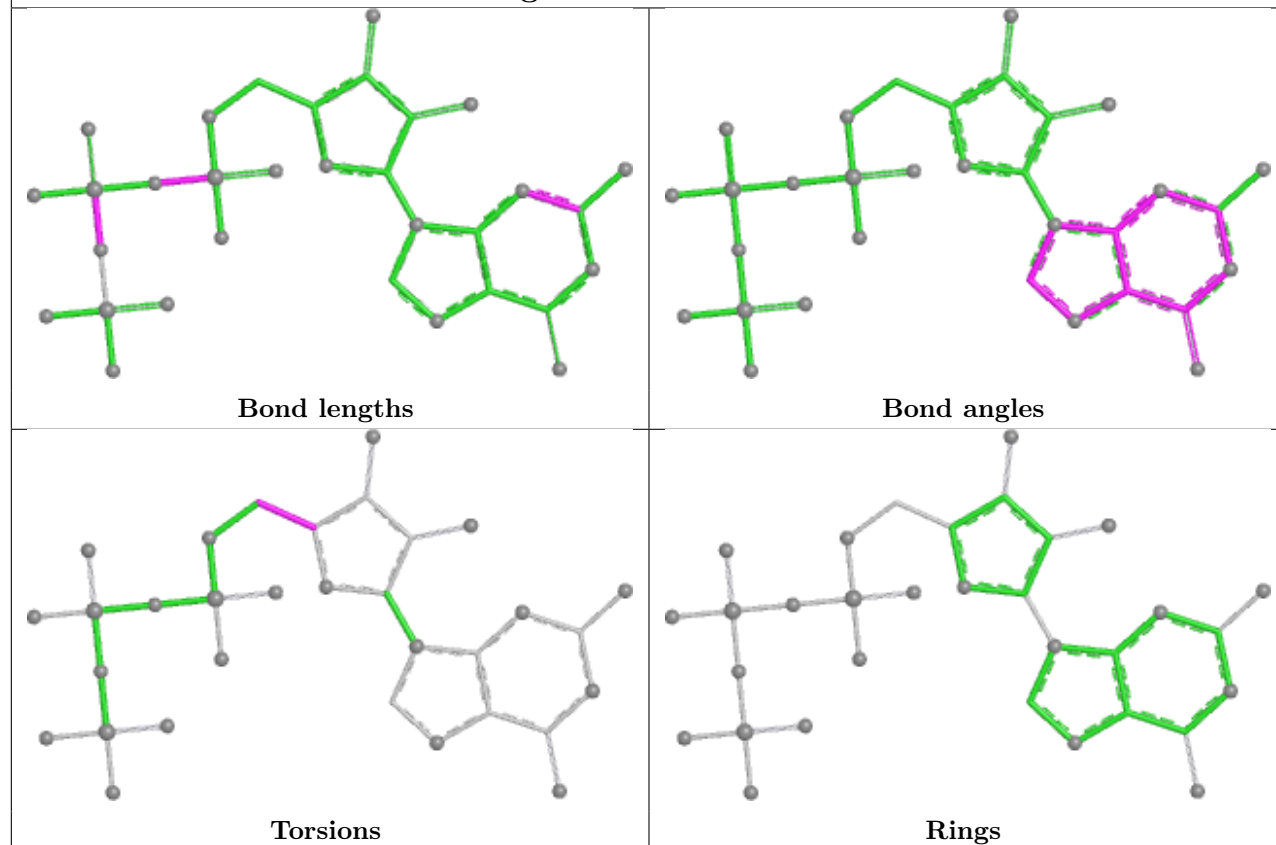


Ligand GTP Cf 501

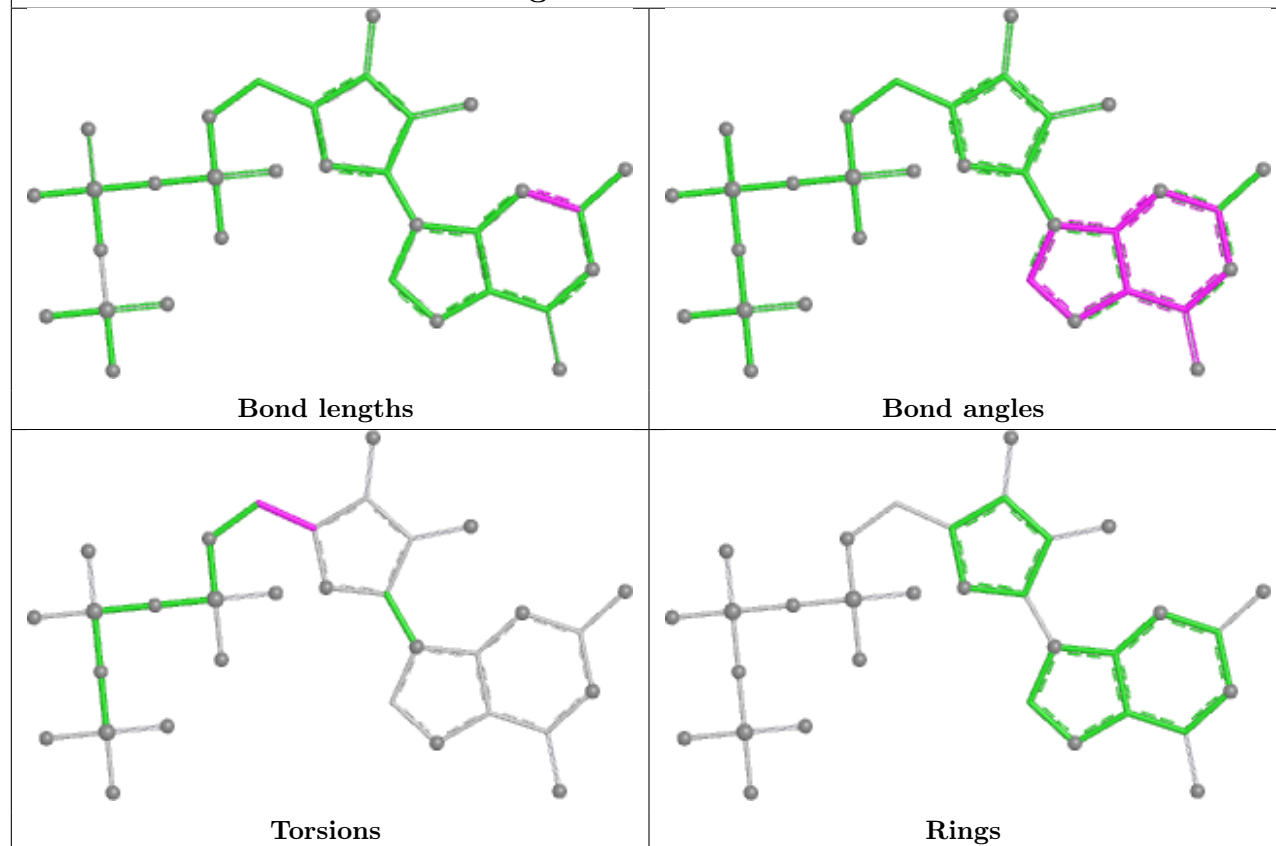


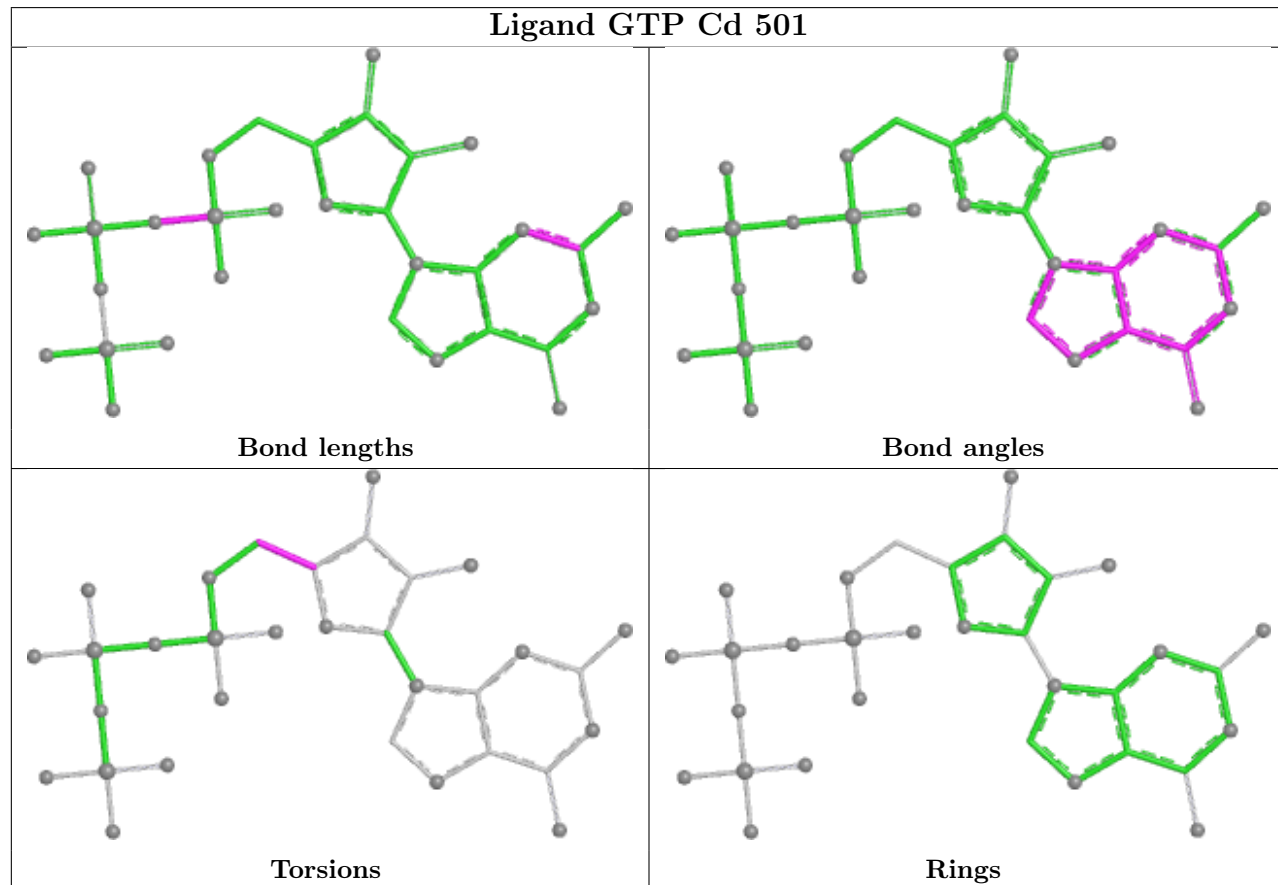
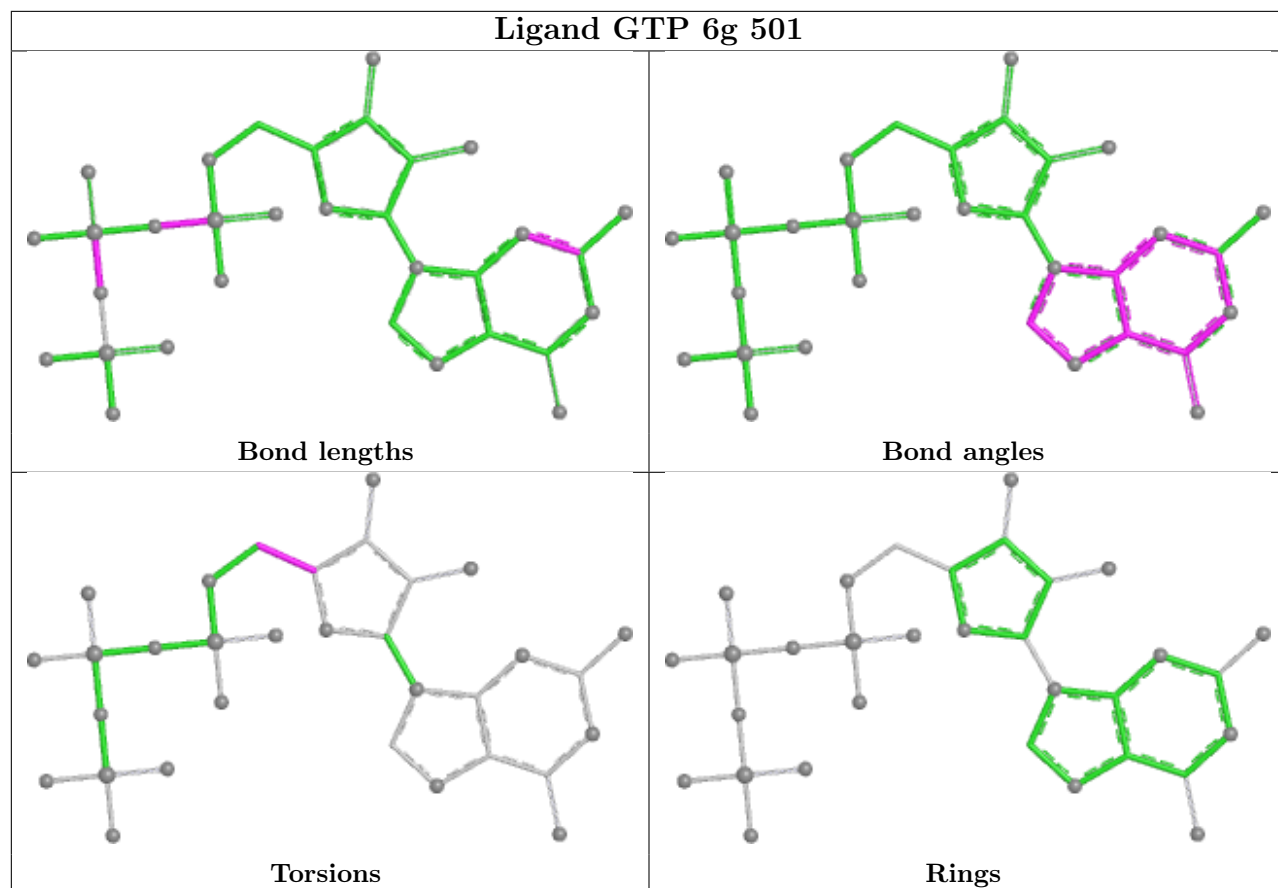


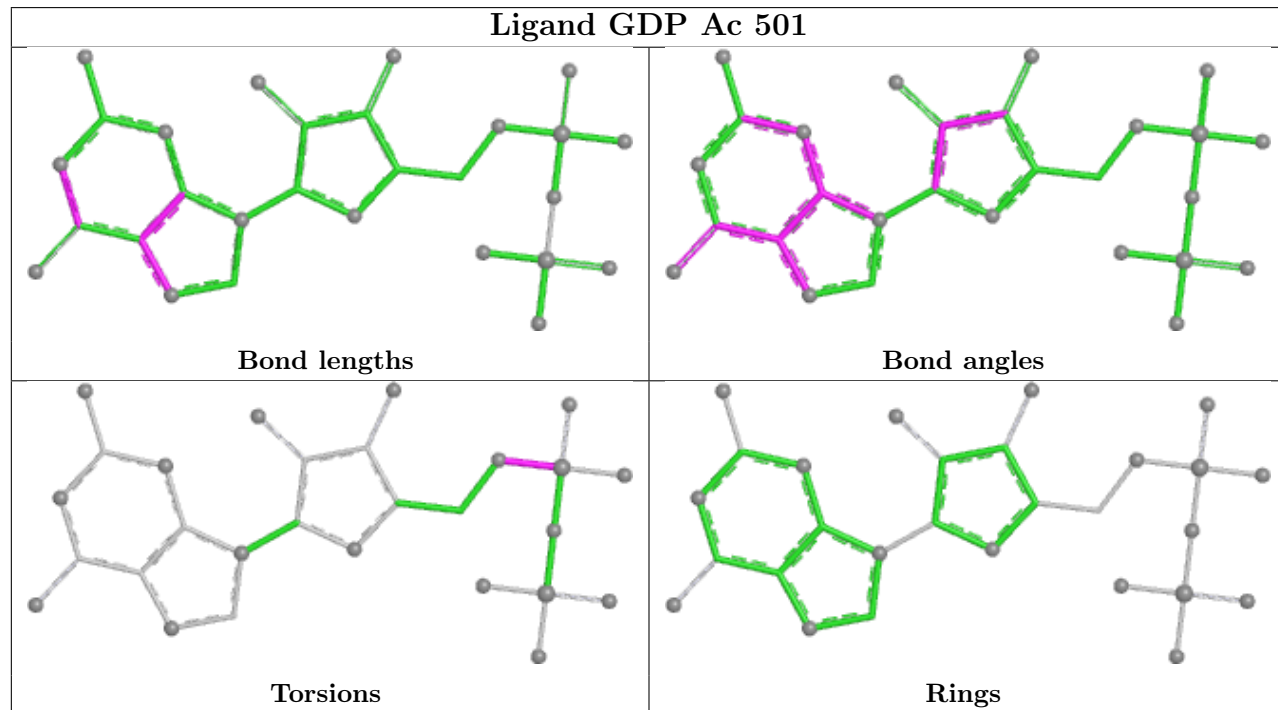
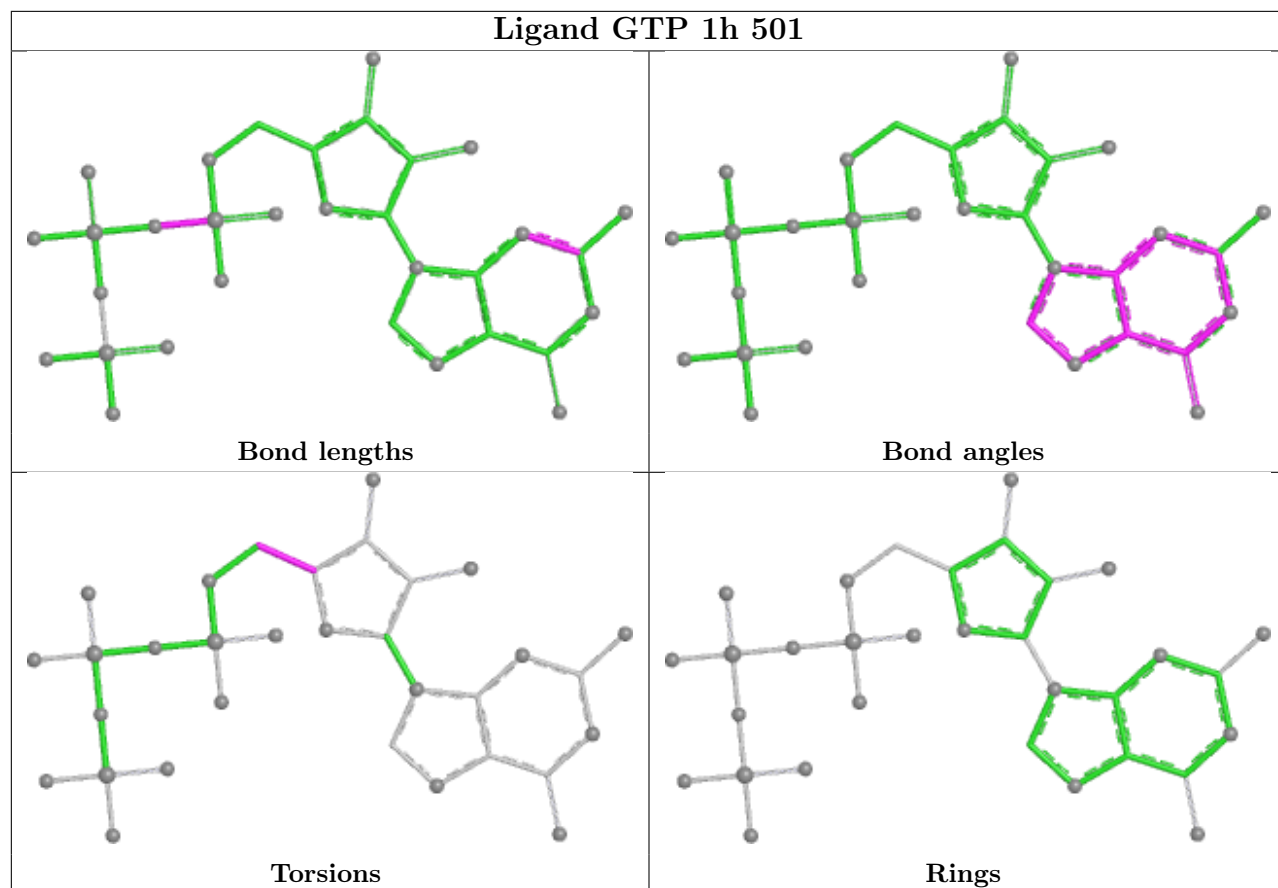
Ligand GTP Ch 501

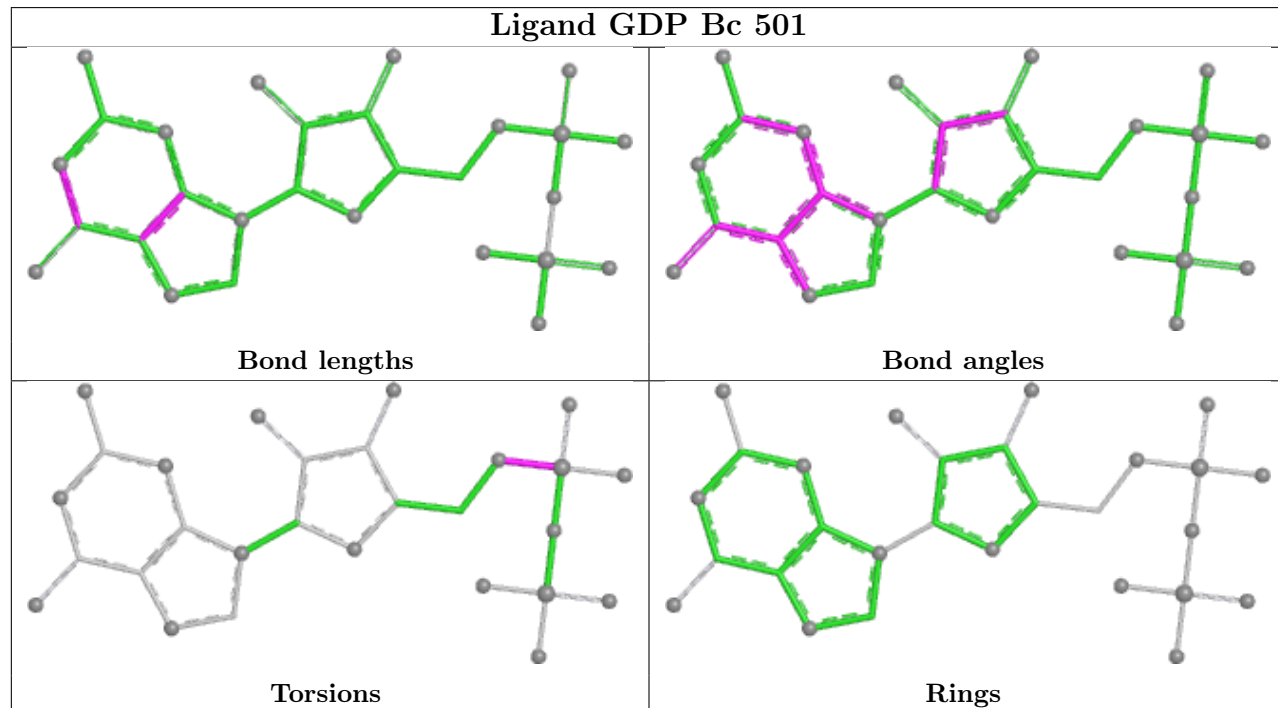
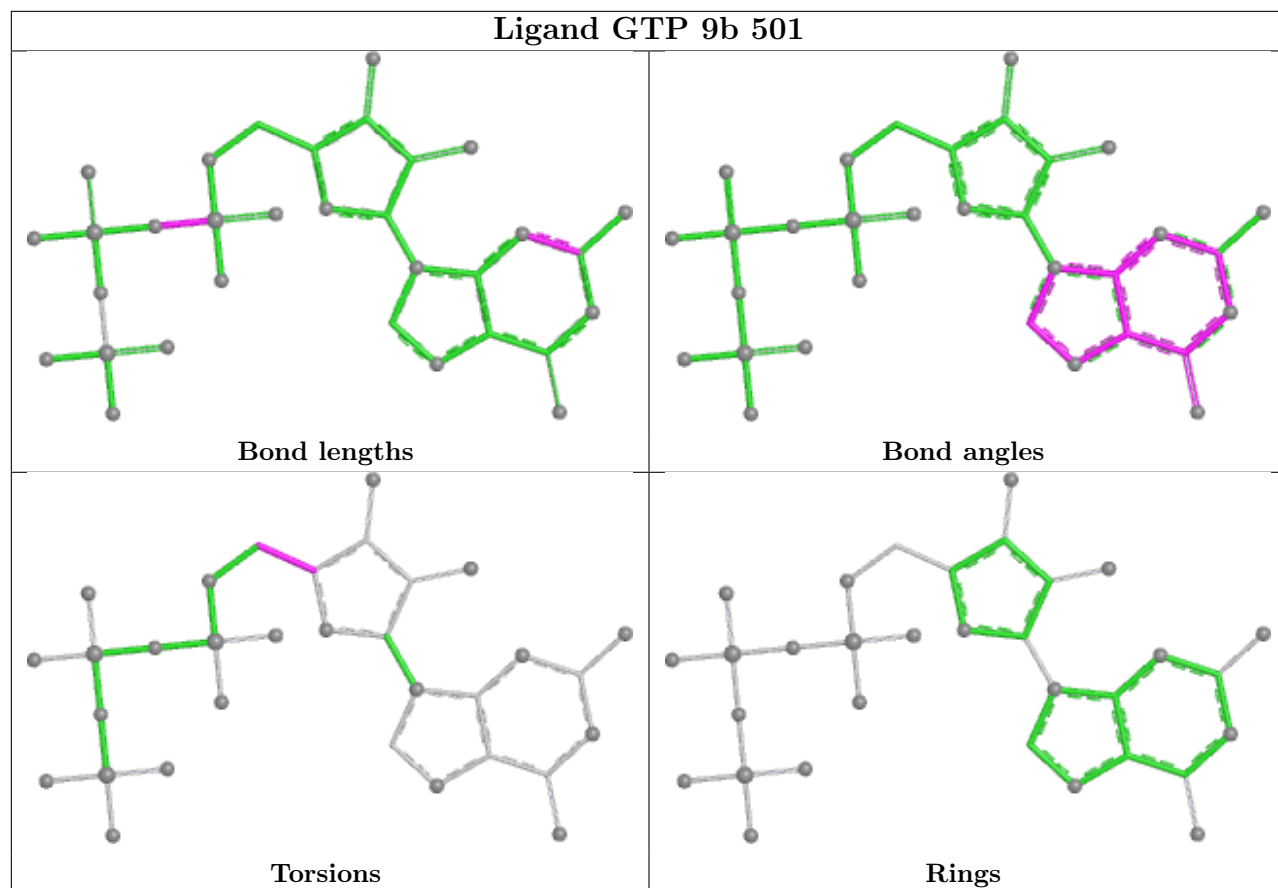


Ligand GTP 7f 501

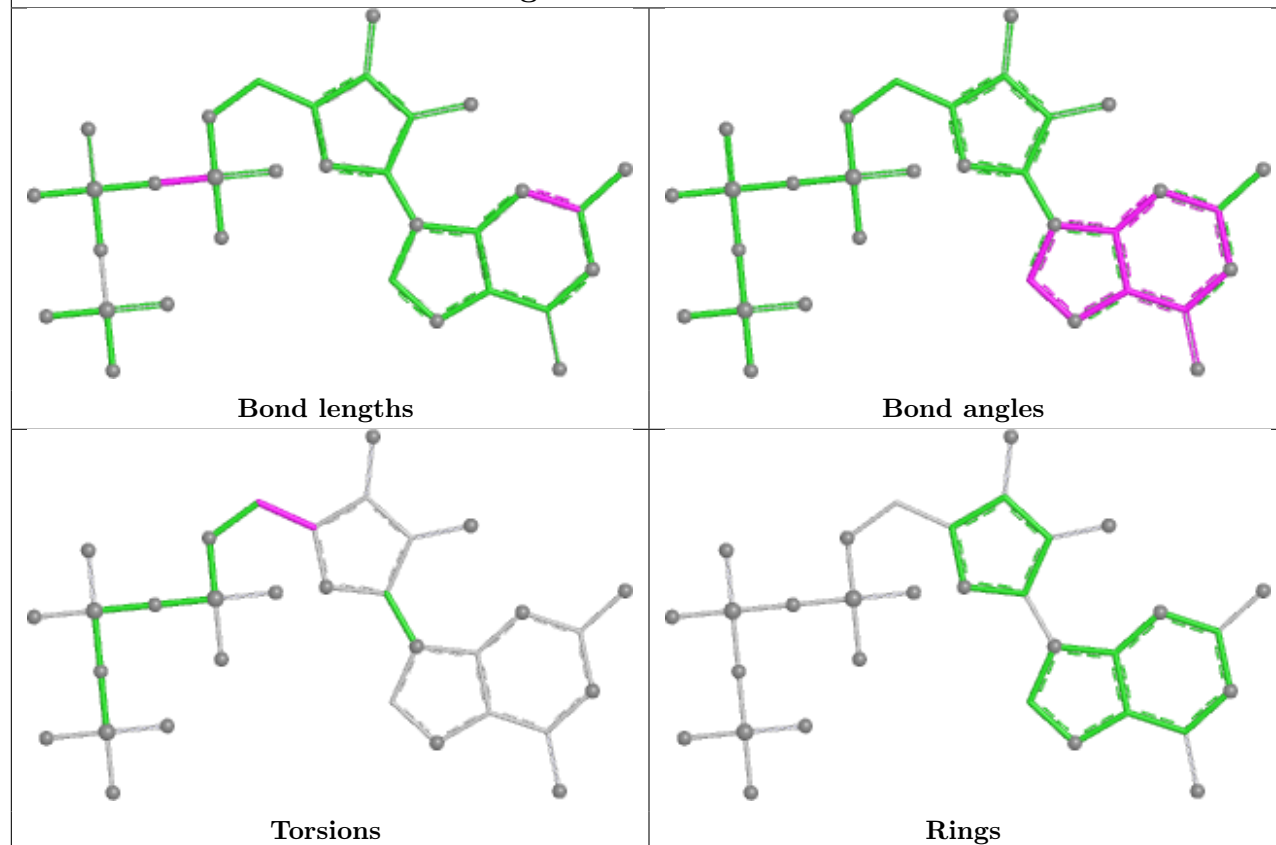




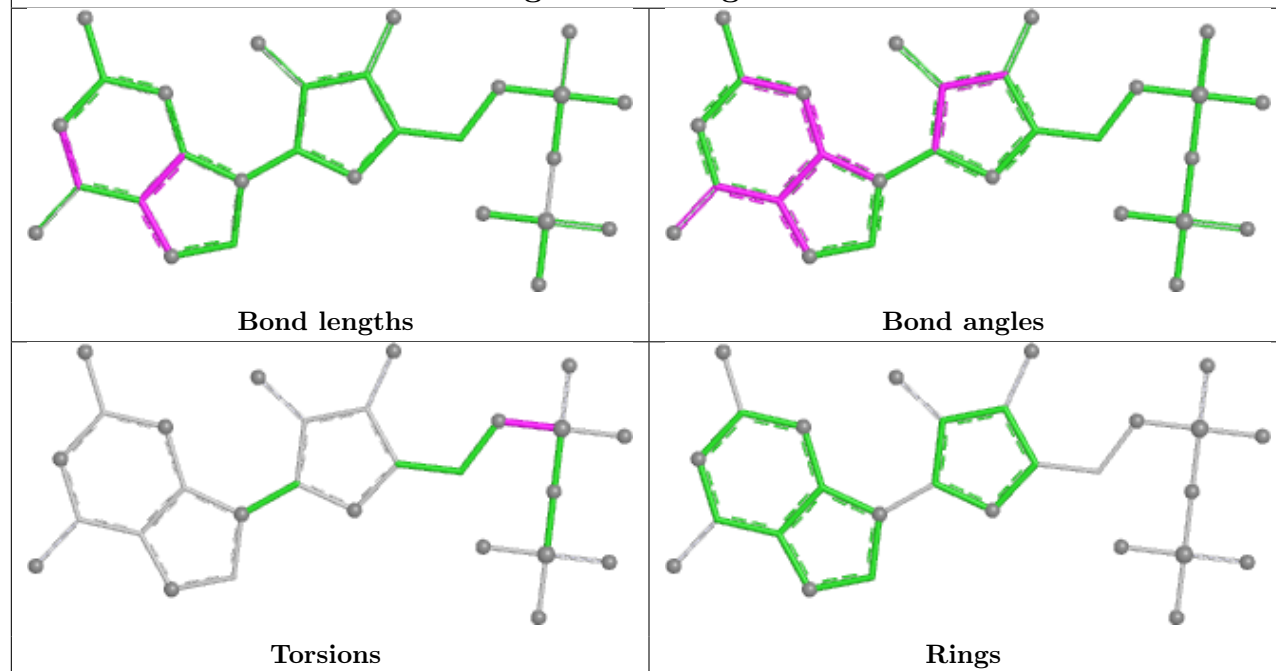


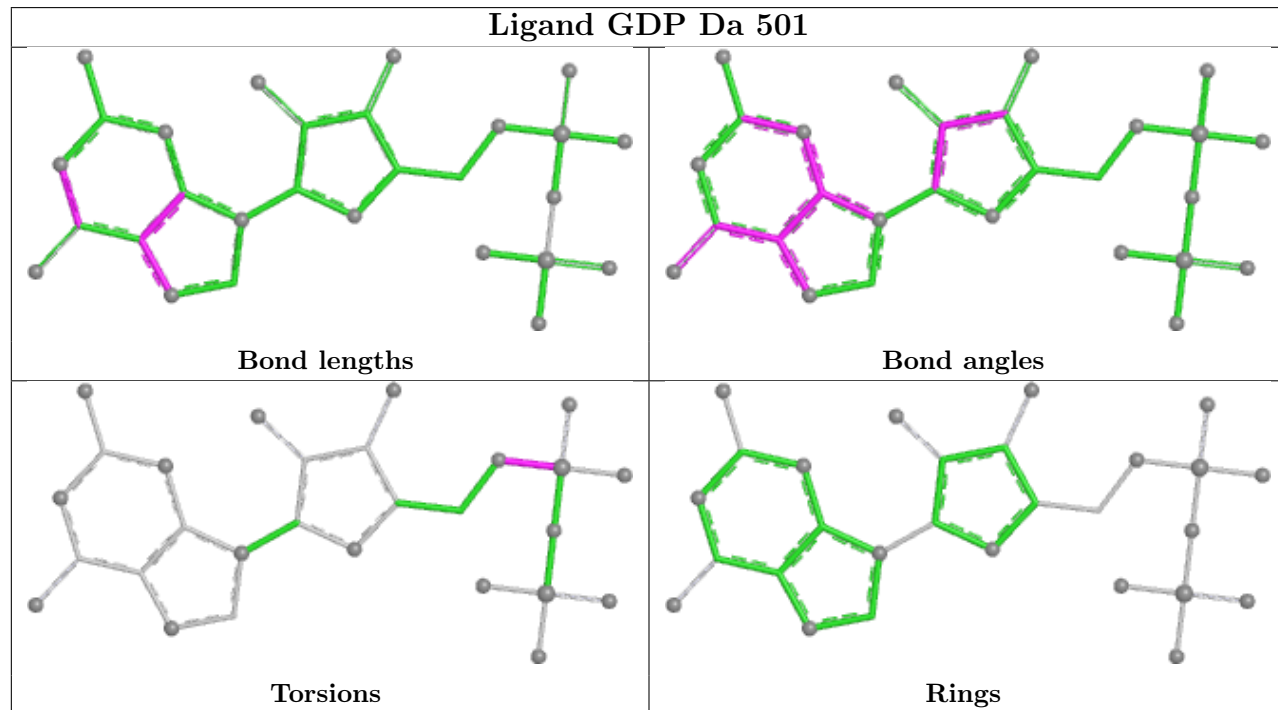
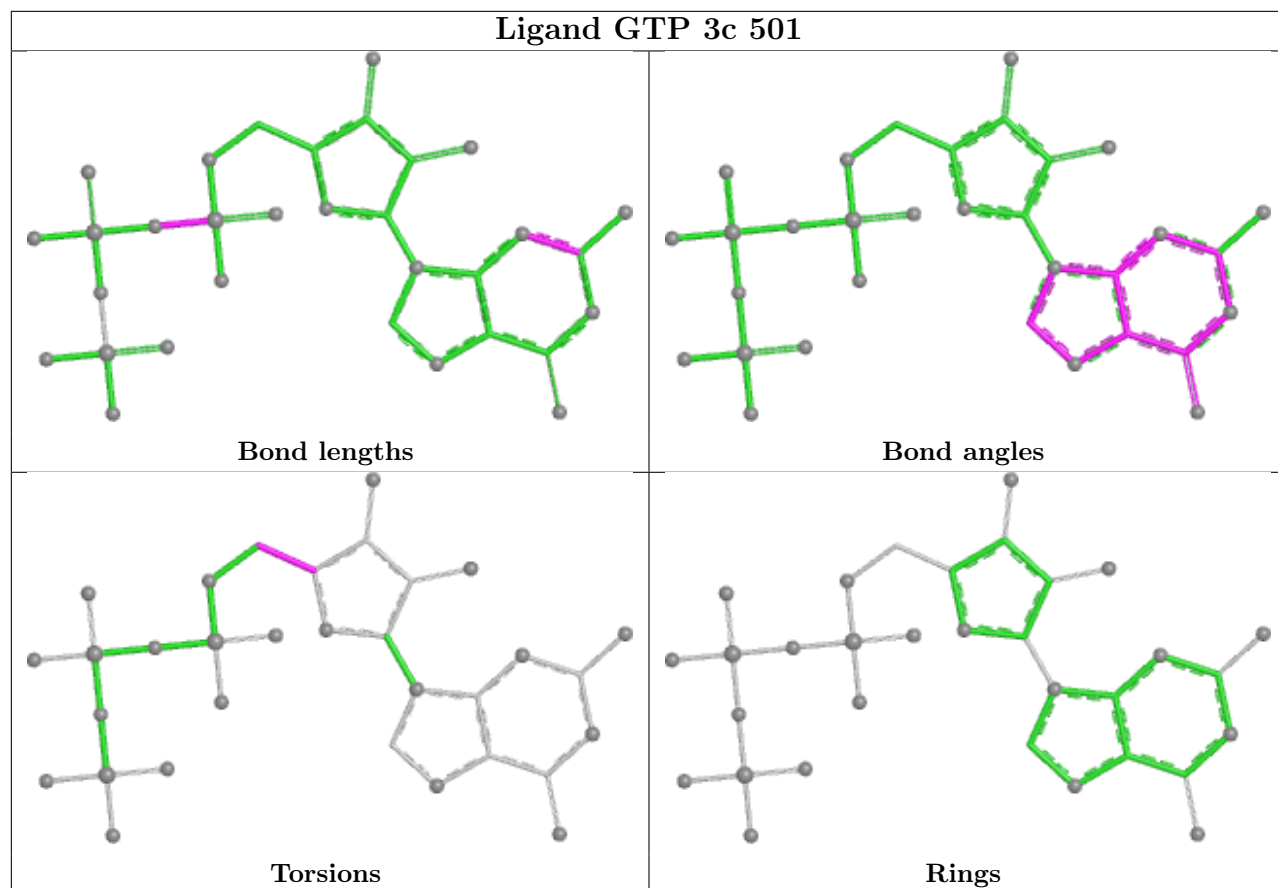


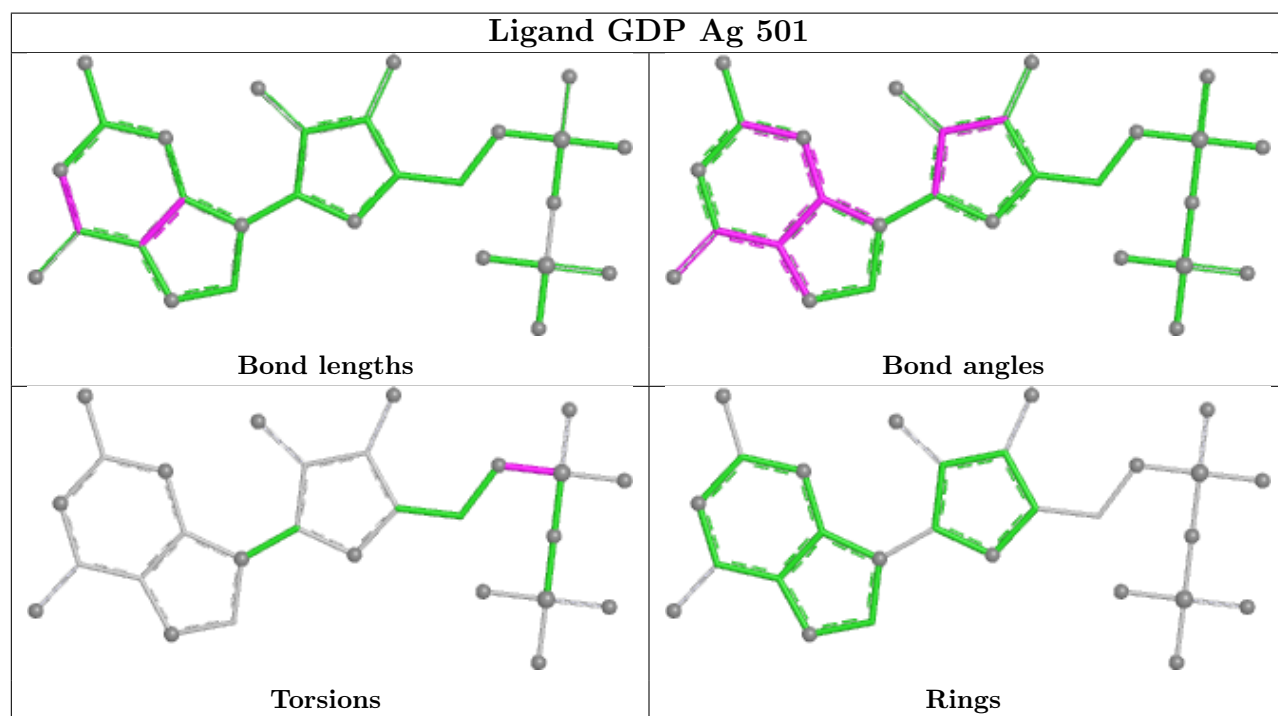
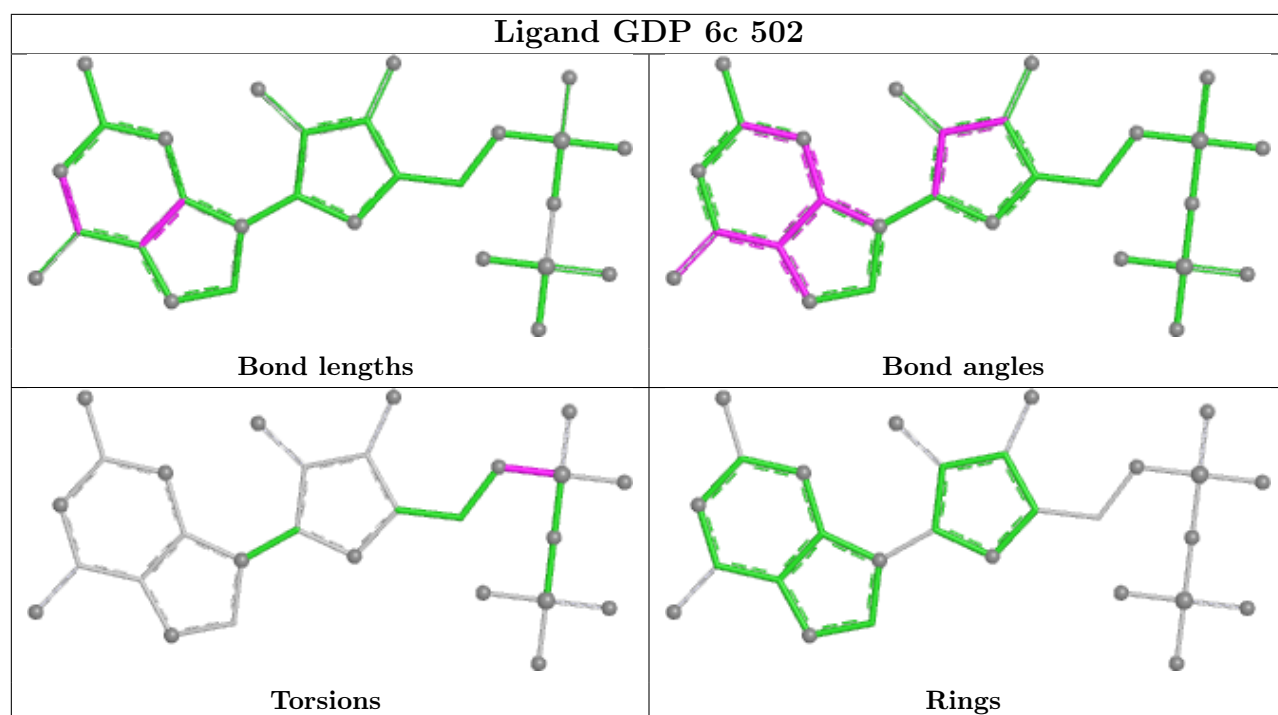
Ligand GTP Dd 501

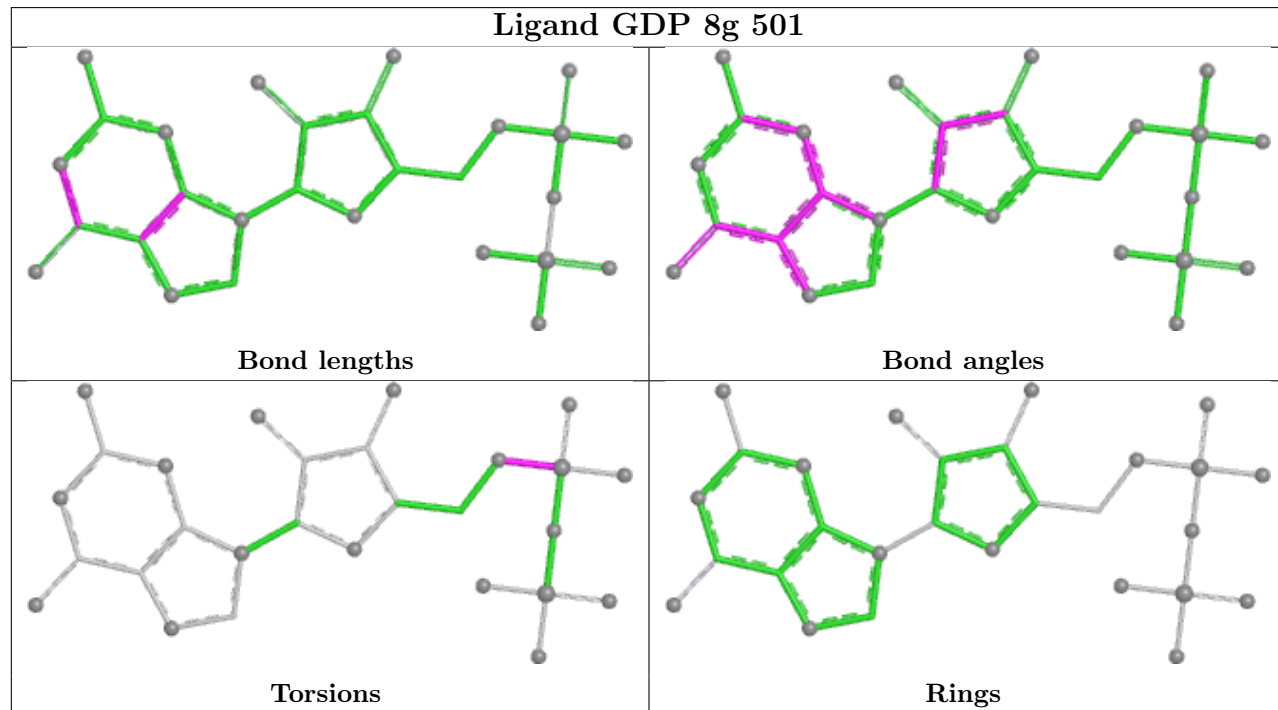
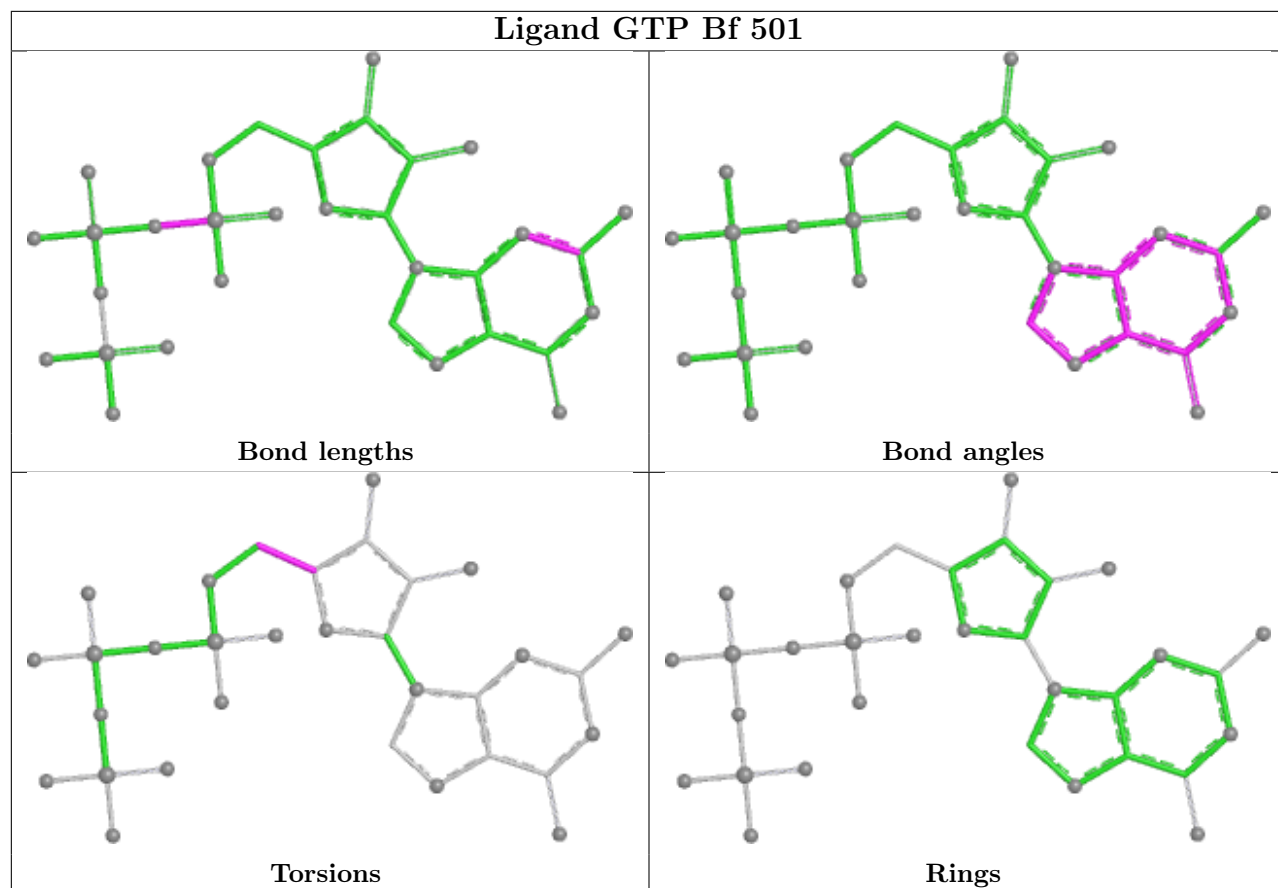


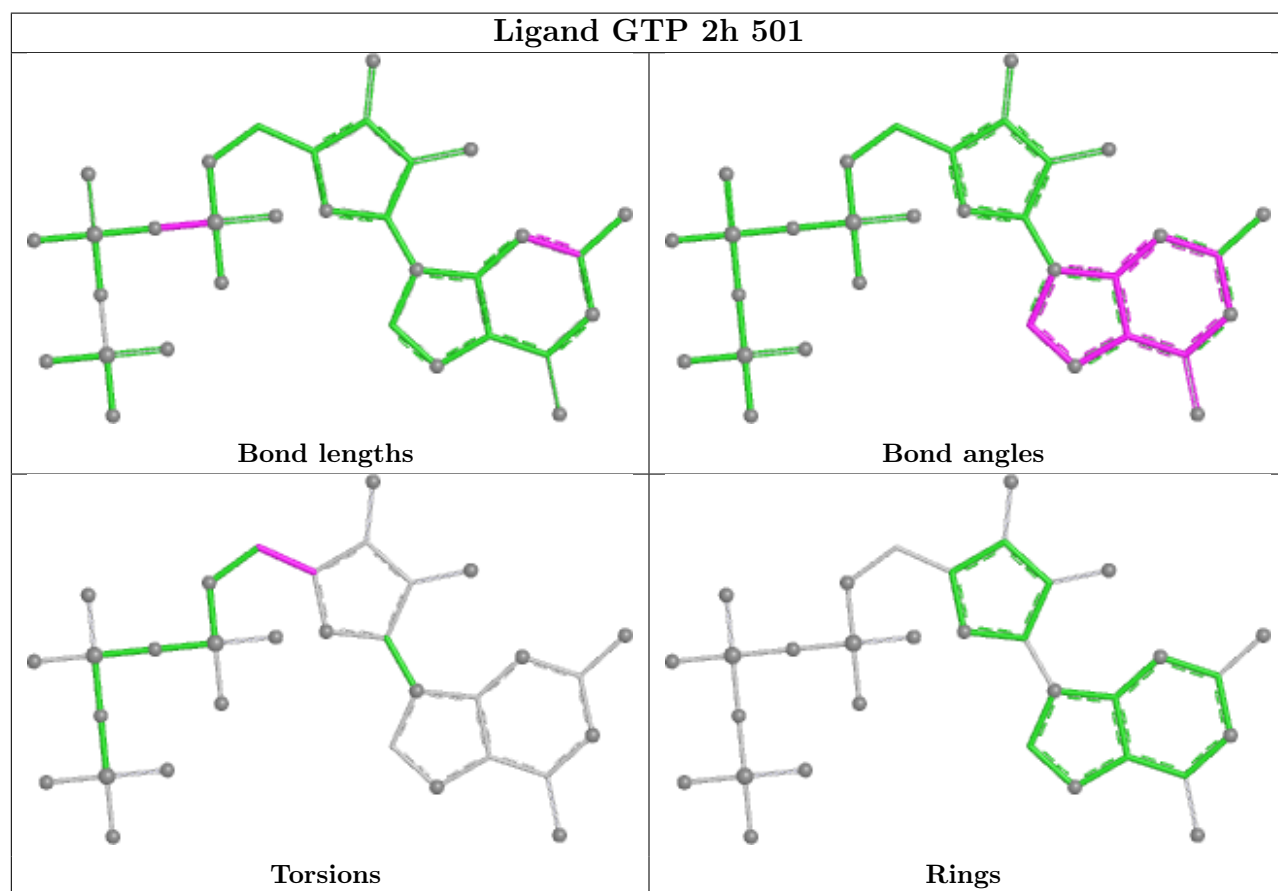
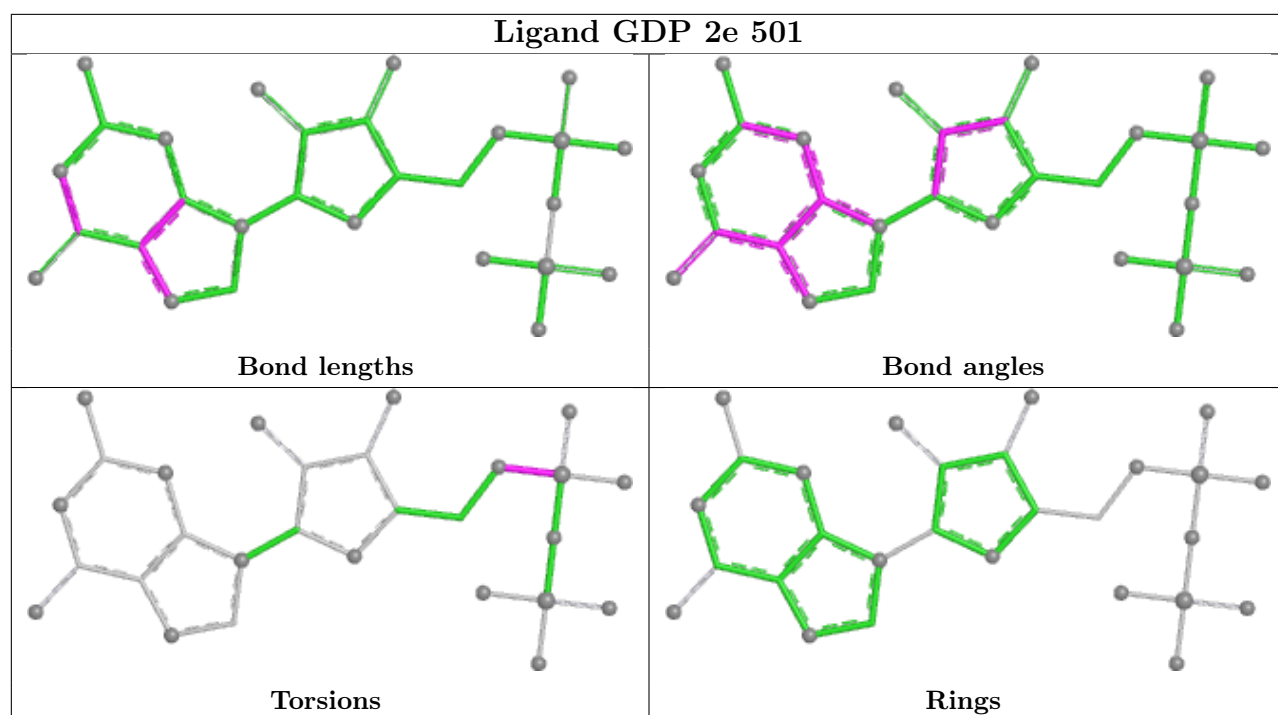
Ligand GDP 7g 501



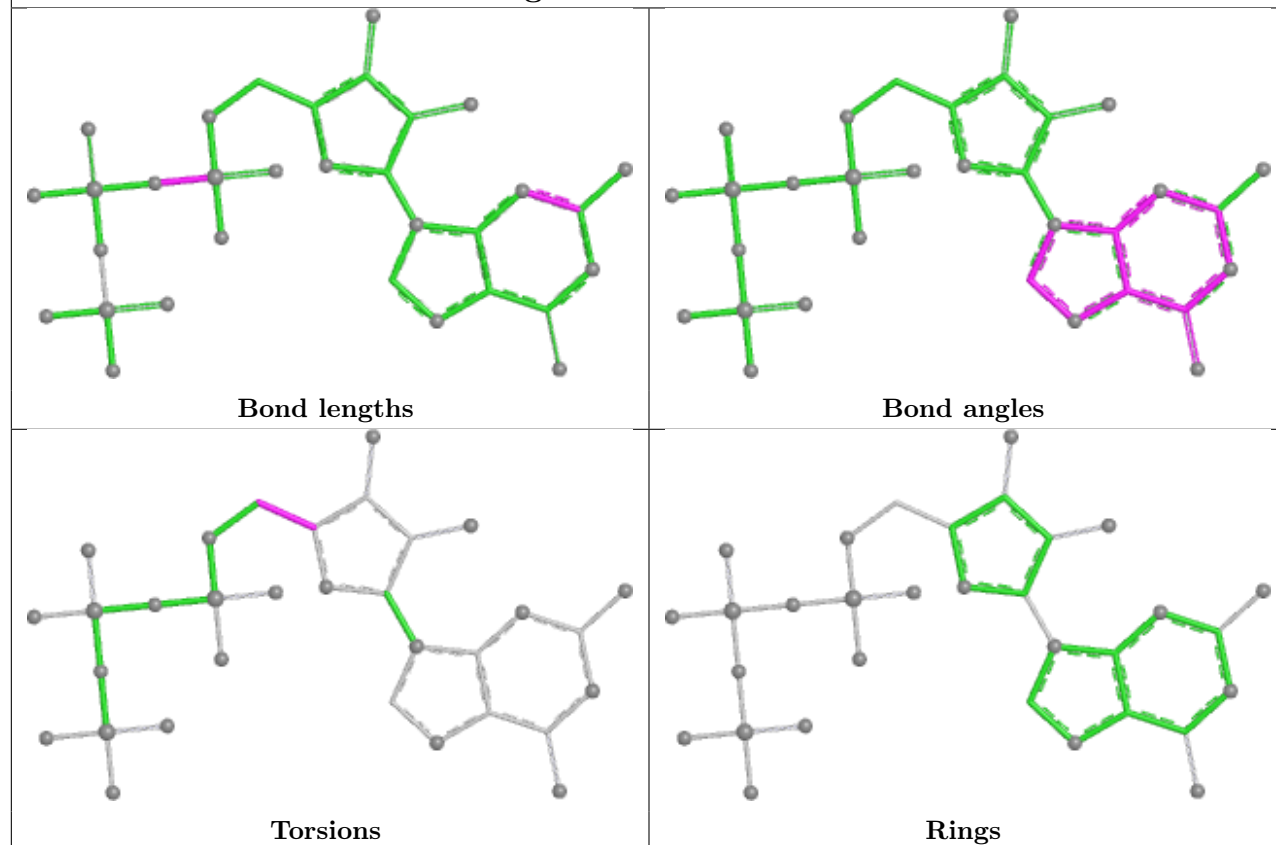




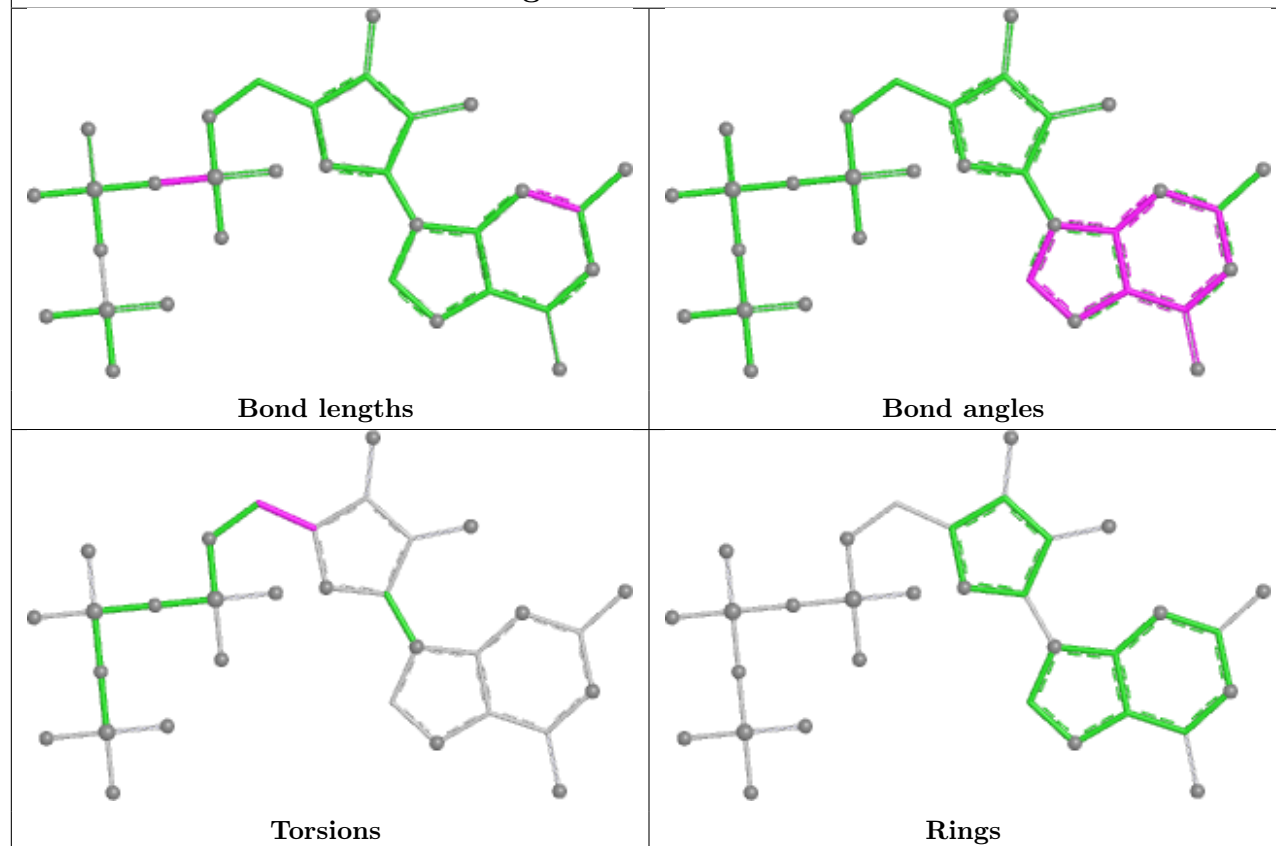


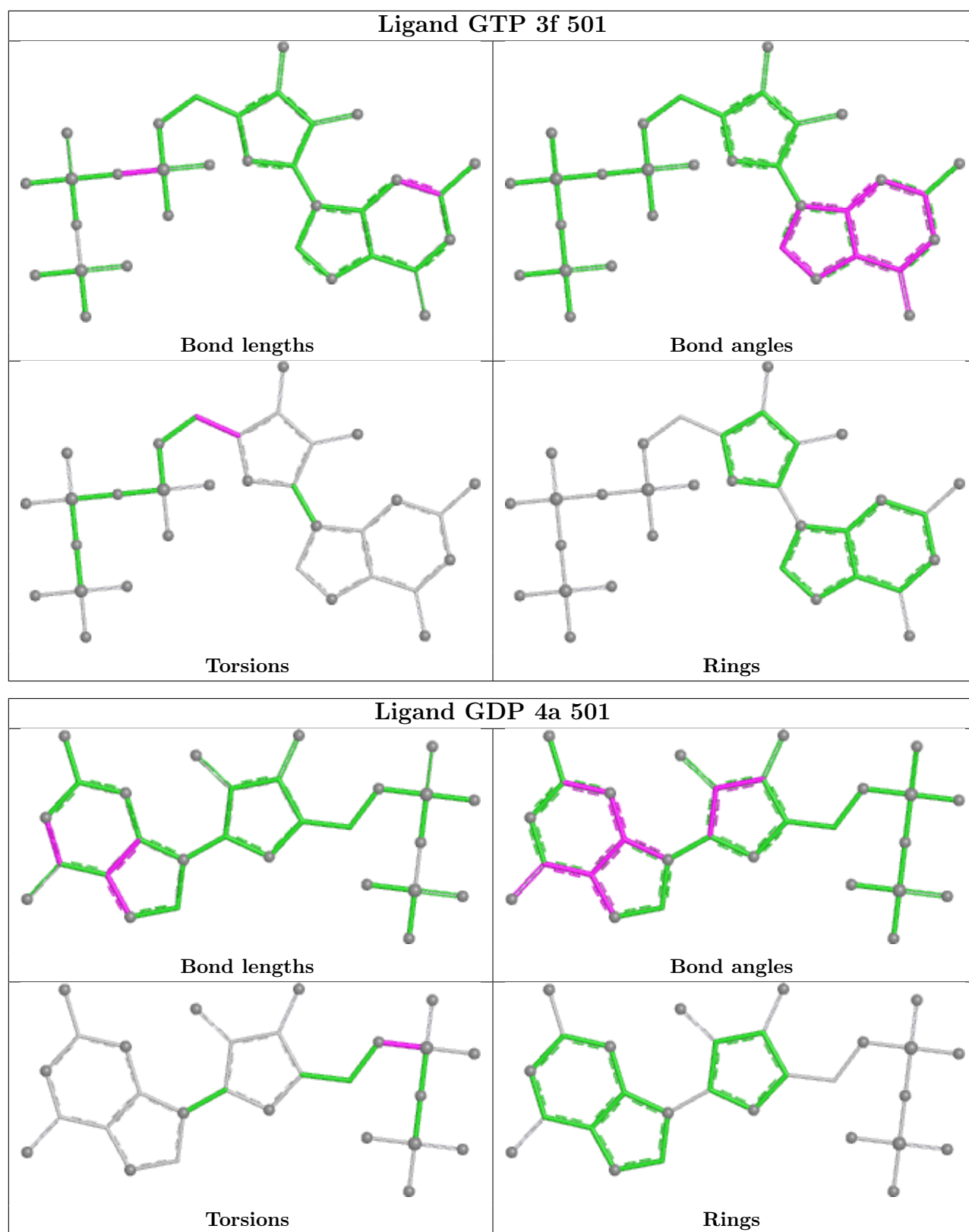


Ligand GTP 5d 501



Ligand GTP Cc 501





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
37	4F	5
37	4E	3
46	5Z	2
45	5W	1
45	5X	1
45	5Y	1
43	5I	1
43	5J	1
43	5L	1
43	5K	1
37	4G	1
41	5A	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	5W	111:UNK	C	154:UNK	N	23.64
1	5X	111:UNK	C	154:UNK	N	23.64
1	5Y	111:UNK	C	154:UNK	N	23.64
1	5Z	14:UNK	C	15:UNK	N	3.57
1	5Z	44:UNK	C	45:UNK	N	3.20
1	5I	44:THR	C	45:ASN	N	1.77
1	5J	44:THR	C	45:ASN	N	1.77
1	5L	44:THR	C	45:ASN	N	1.77
1	5K	44:THR	C	45:ASN	N	1.76
1	4F	1322:ARG	C	1323:ILE	N	1.71
1	4F	1333:VAL	C	1334:GLU	N	1.71
1	4E	577:LEU	C	578:ASP	N	1.69
1	4F	1082:LEU	C	1083:ILE	N	1.69
1	4E	589:PRO	C	590:LYS	N	1.66
1	4G	1082:LEU	C	1083:ILE	N	1.66
1	4F	1083:ILE	C	1084:ARG	N	1.65
1	4F	1323:ILE	C	1324:THR	N	1.64
1	4E	586:PHE	C	587:ALA	N	1.61
1	5A	141:ASN	C	142:ARG	N	1.20

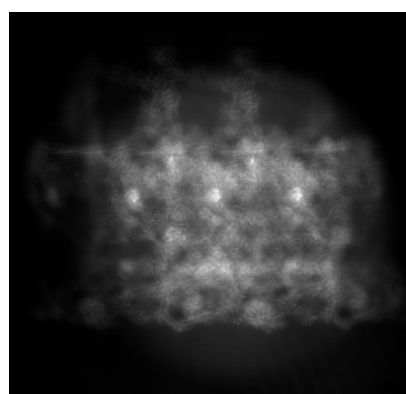
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-24207. These allow visual inspection of the internal detail of the map and identification of artifacts.

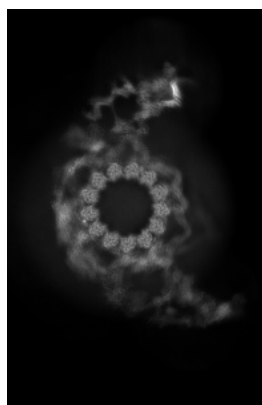
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

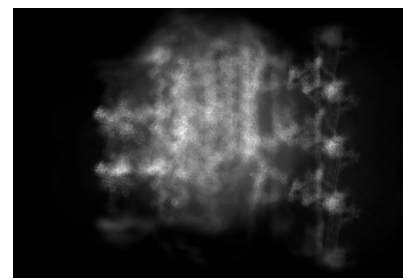
6.1.1 Primary map



X



Y

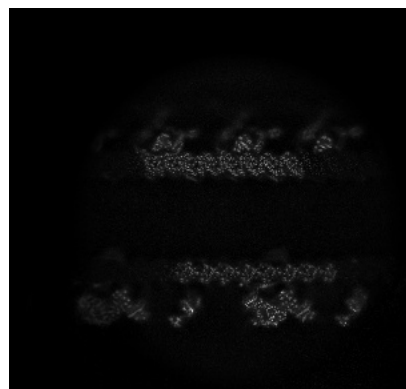


Z

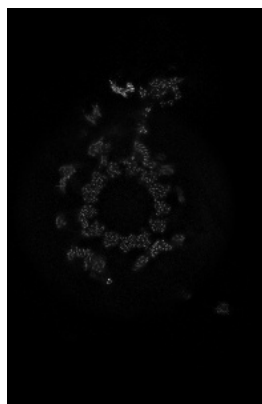
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

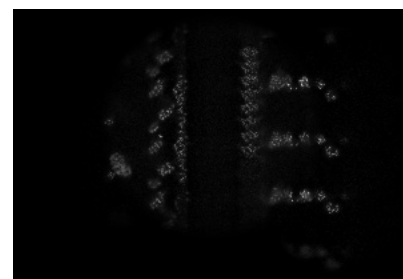
6.2.1 Primary map



X Index: 439



Y Index: 299

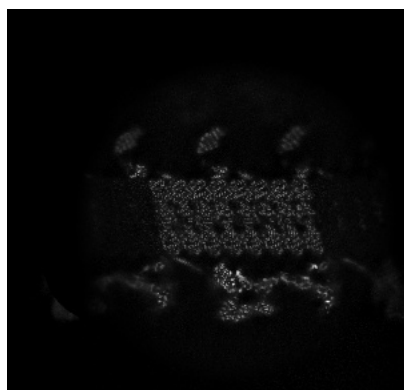


Z Index: 287

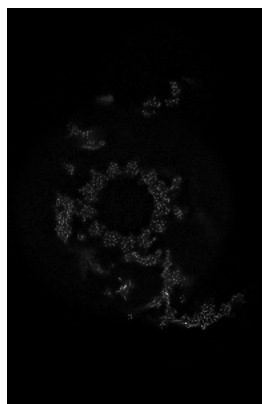
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

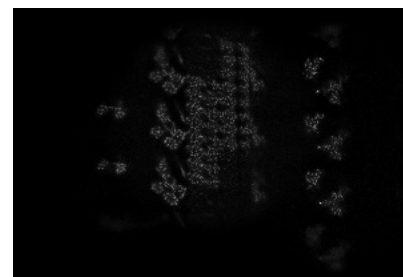
6.3.1 Primary map



X Index: 373



Y Index: 362

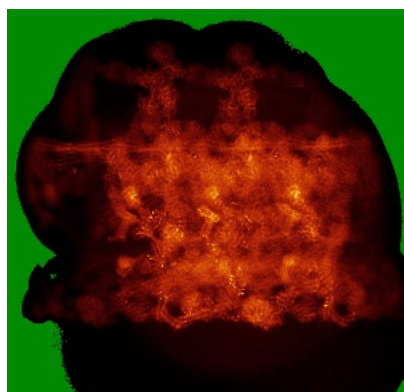


Z Index: 325

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

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

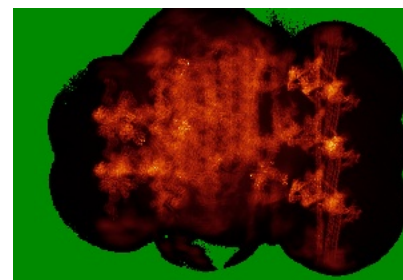
6.4.1 Primary map



X



Y

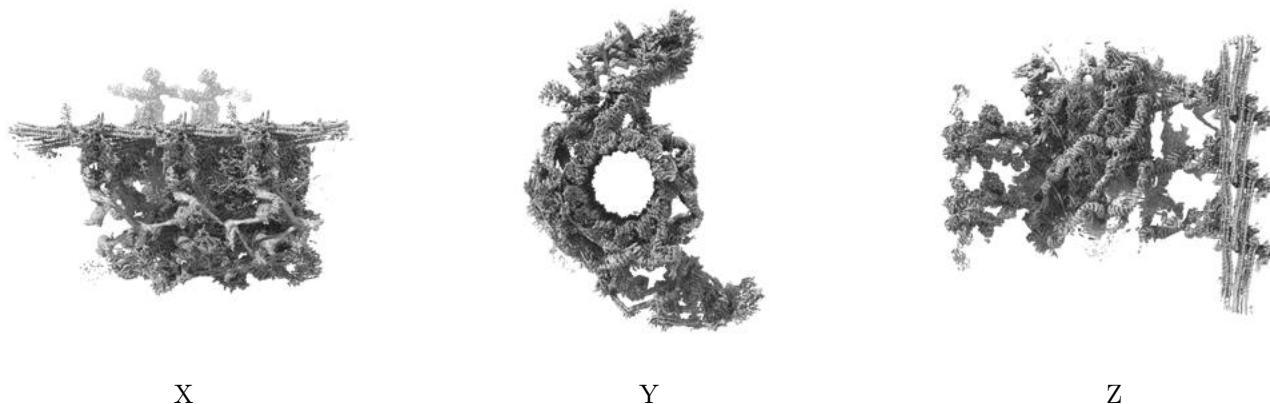


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.5. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

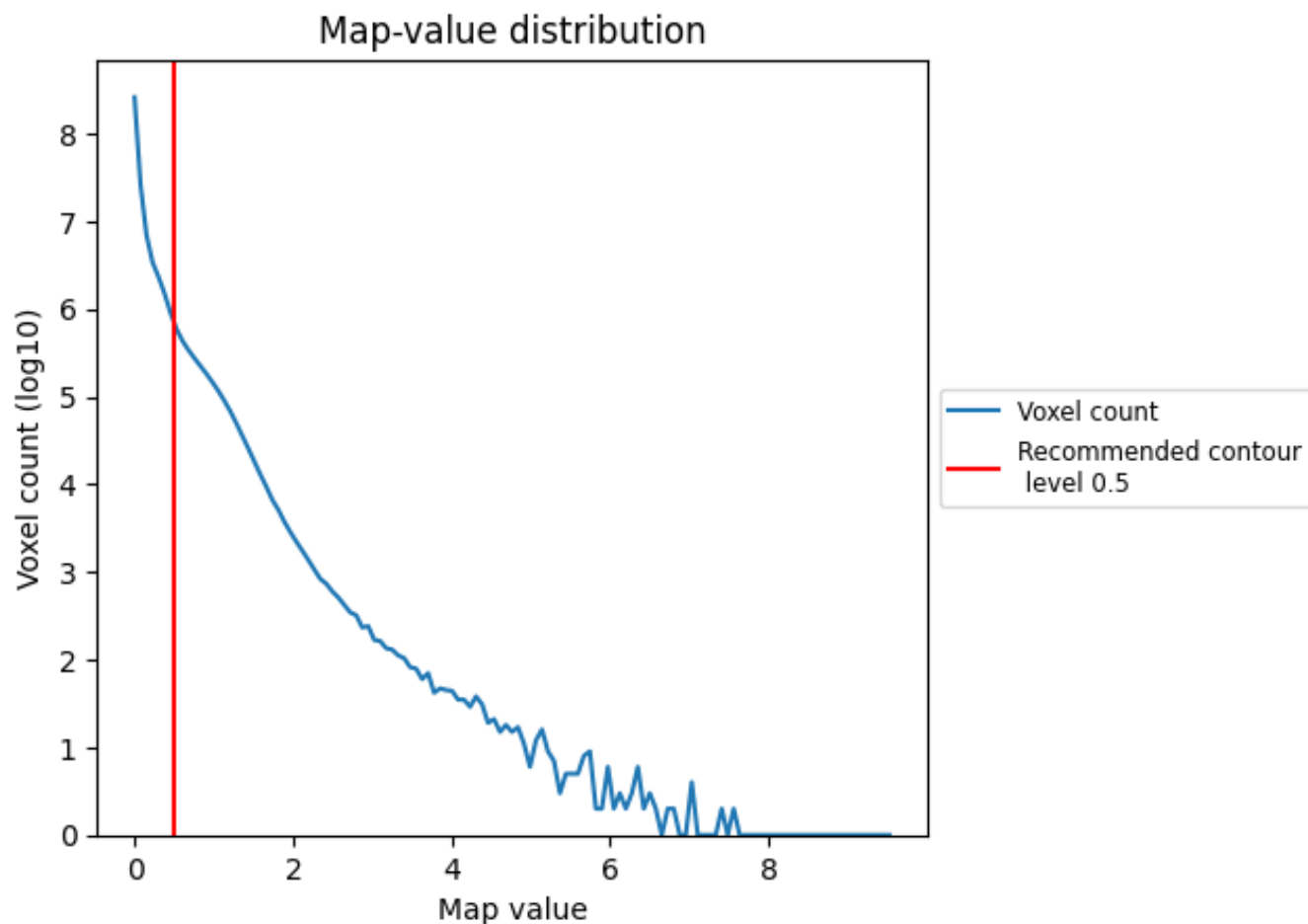
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

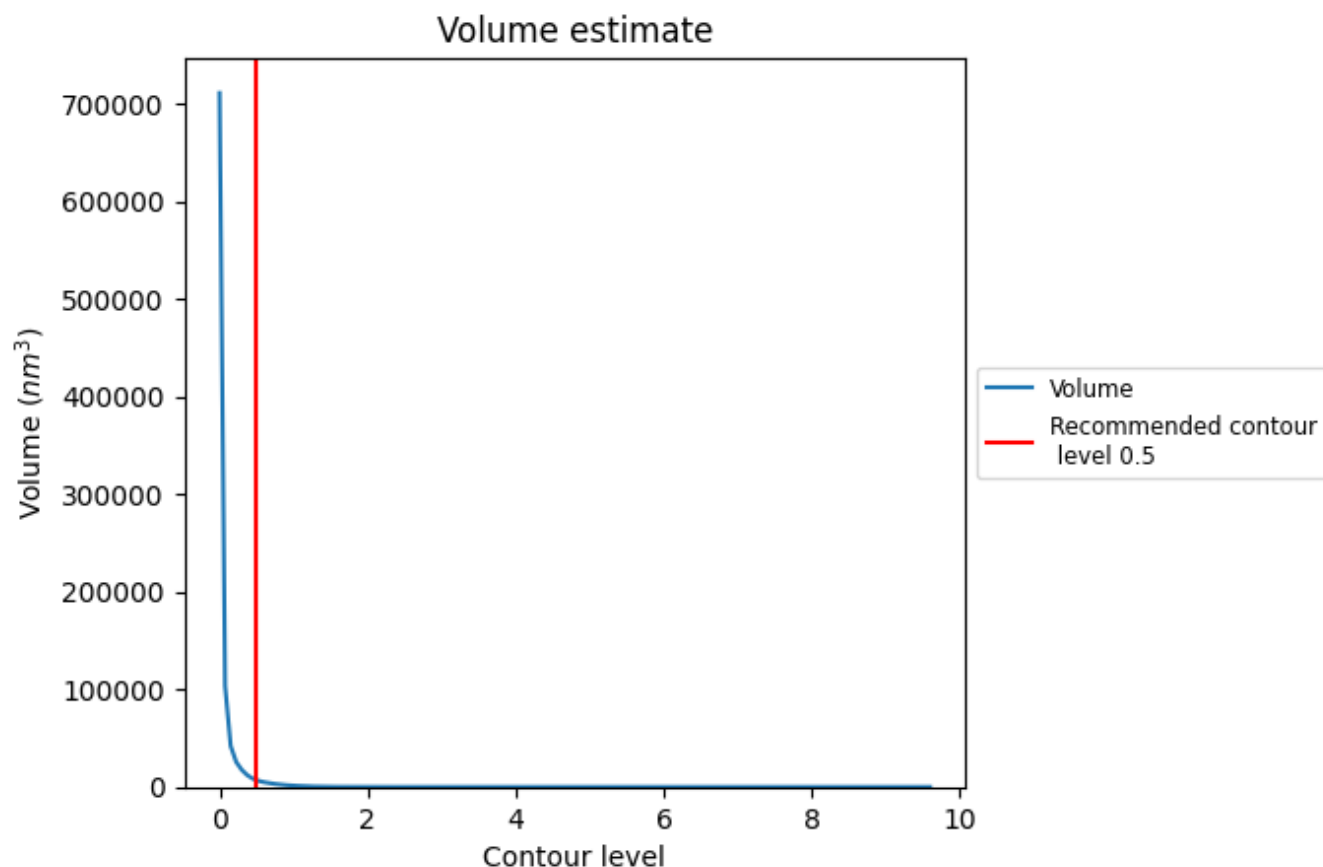
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

7.2 Volume estimate [i](#)



The volume at the recommended contour level is 7012 nm³; this corresponds to an approximate mass of 6334 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](#)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

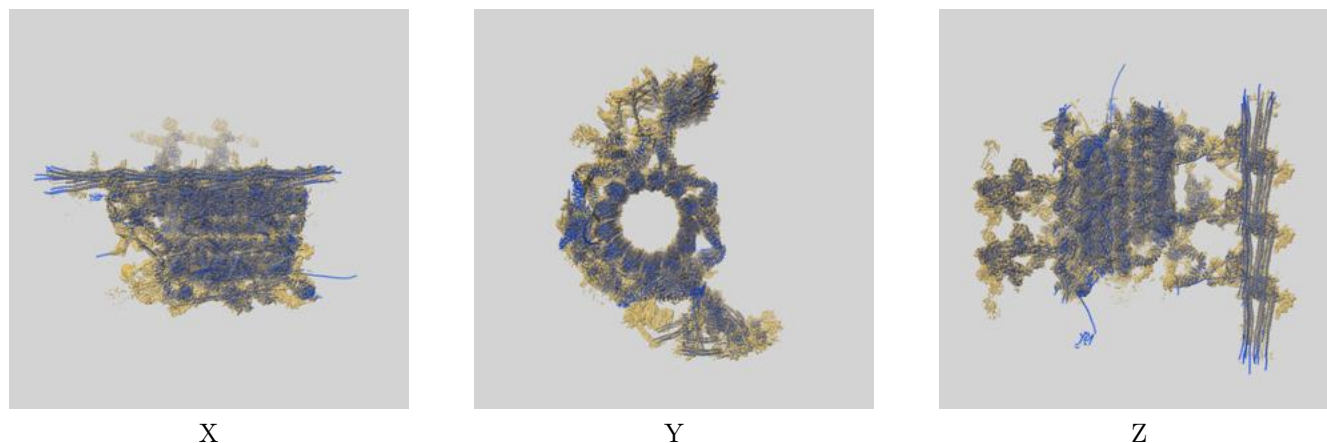
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

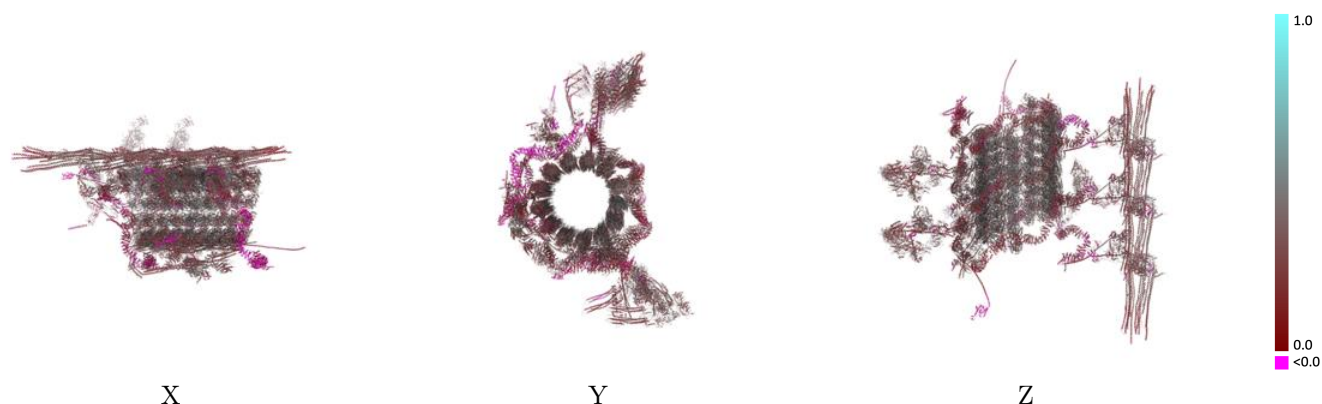
This section contains information regarding the fit between EMDB map EMD-24207 and PDB model 7N6G. Per-residue inclusion information can be found in section 3 on page 38.

9.1 Map-model overlay [i](#)



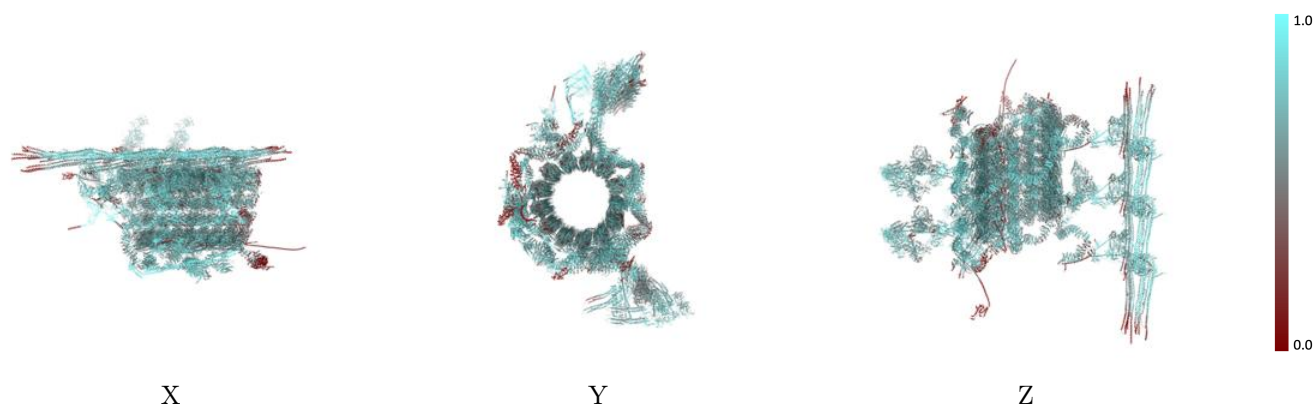
The images above show the 3D surface view of the map at the recommended contour level 0.5 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



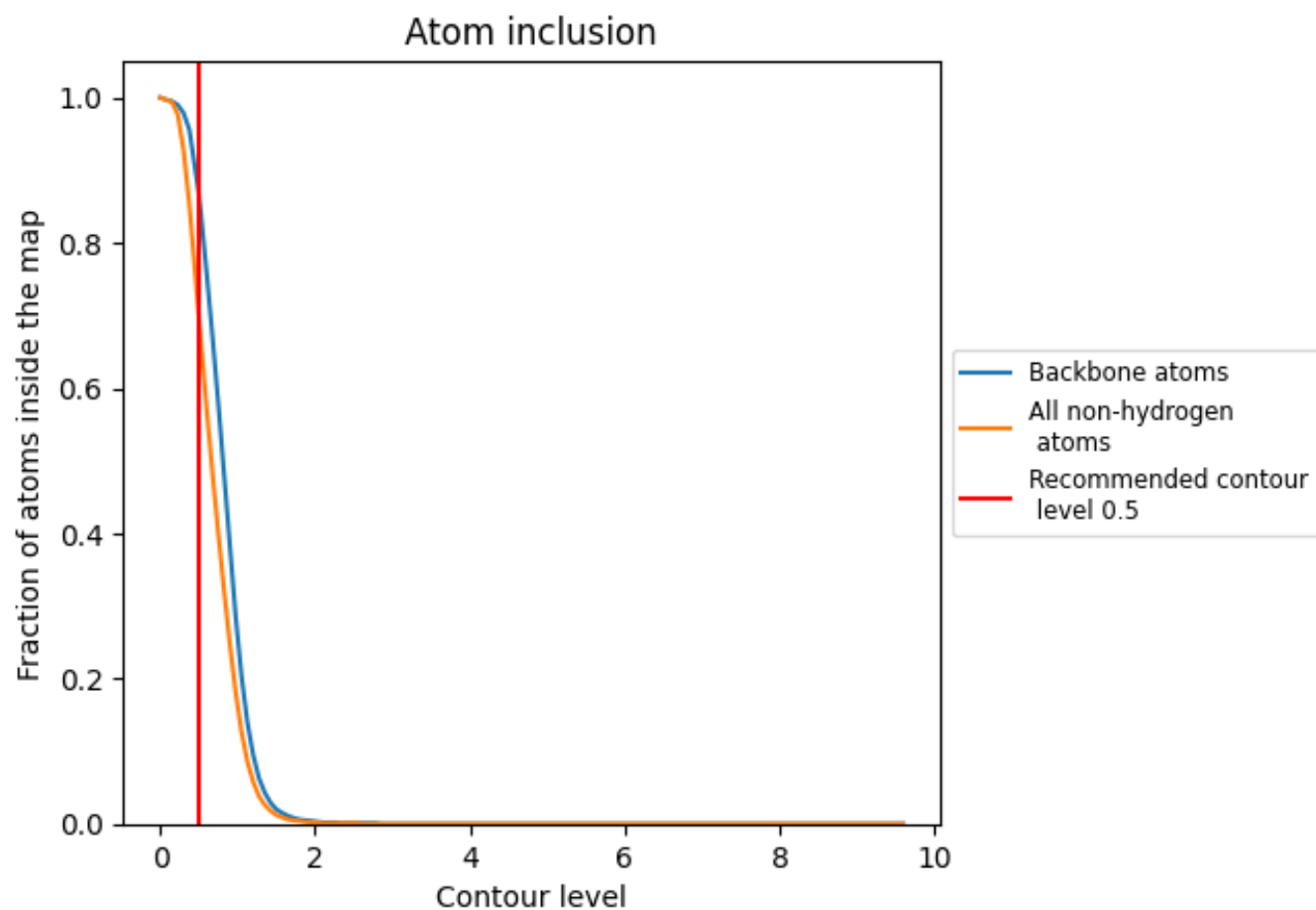
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.5).

9.4 Atom inclusion [i](#)



At the recommended contour level, 87% of all backbone atoms, 70% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6960	 0.3180
0A	 0.7500	 0.2650
0B	 0.4550	 0.2100
0C	 0.6700	 0.2090
0D	 0.5900	 0.2200
0E	 0.6450	 0.2060
0F	 0.7680	 0.1910
0G	 0.6020	 0.1330
0H	 0.7430	 0.1760
0I	 0.6340	 0.1160
0J	 0.6820	 0.1290
0K	 0.7380	 0.1500
0L	 0.8380	 0.2400
0M	 0.7780	 0.2260
0N	 0.8270	 0.2890
0O	 0.8100	 0.2820
0P	 0.3490	 0.0250
0Q	 0.4880	 0.0040
0R	 0.7990	 0.2820
0S	 0.7650	 0.2540
0T	 0.7850	 0.2600
0U	 0.8390	 0.2950
0V	 0.7750	 0.2540
0W	 0.7460	 0.2130
0X	 0.7530	 0.2590
0Y	 0.5600	 0.2060
0Z	 0.5210	 0.1890
1A	 0.7210	 0.2450
1B	 0.1150	 0.0410
1C	 0.2580	 0.0910
1D	 0.8500	 0.2490
1E	 0.4590	 0.1400
1F	 0.8270	 0.2670
1G	 0.5340	 0.1640
1H	 0.7510	 0.2730



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Chain	Atom inclusion	Q-score
1I	 0.5270	 0.2020
1J	 0.7930	 0.3180
1K	 0.8360	 0.3780
1L	 0.6760	 0.3030
1M	 0.7230	 0.2800
1N	 0.7710	 0.2690
1O	 0.8370	 0.3480
1P	 0.7480	 0.2890
1Q	 0.8610	 0.3240
1R	 0.7810	 0.3770
1S	 0.7220	 0.3510
1T	 0.9540	 0.2390
1a	 0.5810	 0.3640
1b	 0.6930	 0.3740
1c	 0.7180	 0.4100
1d	 0.7270	 0.4010
1e	 0.7370	 0.3940
1f	 0.7380	 0.3980
1g	 0.7530	 0.4240
1h	 0.7000	 0.4050
2F	 0.6800	 0.3690
2G	 0.5980	 0.3540
2H	 0.7460	 0.4360
2I	 0.8300	 0.4640
2J	 0.4780	 0.3790
2K	 0.5120	 0.4210
2L	 0.2930	 0.3280
2M	 0.4440	 0.3760
2N	 0.7190	 0.4510
2O	 0.7280	 0.3910
2P	 0.8360	 0.4620
2Q	 0.8730	 0.4280
2R	 0.8070	 0.4500
2S	 0.2160	 0.3650
2T	 0.0950	 0.2800
2U	 0.2200	 0.3280
2V	 0.2560	 0.3120
2W	 0.8800	 0.4280
2X	 0.8160	 0.4210
2Y	 0.8120	 0.3760
2Z	 0.4890	 0.3490
2a	 0.5660	 0.3220

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Chain	Atom inclusion	Q-score
2b	 0.7120	 0.3890
2c	 0.7380	 0.4000
2d	 0.7280	 0.4040
2e	 0.7040	 0.3520
2f	 0.7400	 0.4020
2g	 0.7580	 0.4150
2h	 0.6870	 0.4000
3A	 0.8110	 0.3150
3B	 0.4170	 0.2640
3C	 0.7290	 0.3540
3E	 0.5680	 0.3030
3F	 0.4460	 0.2260
3G	 0.7000	 0.2620
3H	 0.7530	 0.3050
3I	 0.6460	 0.2630
3J	 0.7750	 0.3570
3K	 0.5320	 0.2870
3L	 0.7380	 0.2520
3M	 0.3960	 0.2500
3N	 0.5050	 0.2670
3O	 0.4690	 0.2650
3P	 0.4890	 0.2650
3Q	 0.6330	 0.2930
3R	 0.6270	 0.2790
3S	 0.5110	 0.2690
3T	 0.3670	 0.2580
3U	 0.6340	 0.2820
3V	 0.6330	 0.2710
3W	 0.7740	 0.3370
3X	 0.7780	 0.3250
3Y	 0.7830	 0.3240
3Z	 0.6600	 0.2850
3a	 0.5670	 0.3380
3b	 0.6940	 0.3860
3c	 0.7580	 0.4050
3d	 0.7050	 0.3890
3e	 0.7140	 0.3830
3f	 0.7160	 0.3950
3g	 0.7560	 0.4240
3h	 0.6470	 0.3860
4A	 0.7600	 0.3150
4B	 0.6350	 0.2930

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Chain	Atom inclusion	Q-score
4C	 0.7520	 0.3040
4D	 0.7410	 0.2810
4E	 0.7300	 0.2730
4F	 0.7550	 0.3670
4G	 0.7590	 0.3660
4H	 0.7570	 0.3710
4I	 0.4340	 0.0160
4J	 0.6900	 0.2770
4K	 0.6710	 0.2600
4L	 0.3640	 -0.0330
4M	 0.3550	 -0.0260
4N	 0.3590	 -0.0290
4O	 0.7110	 0.2630
4P	 0.6930	 0.2780
4Q	 0.8390	 0.3110
4R	 0.5310	 0.1910
4S	 0.6980	 0.2050
4T	 0.7240	 0.3110
4U	 0.7230	 0.2980
4V	 0.7170	 0.3050
4W	 0.8510	 0.3030
4X	 0.9970	 0.3010
4Y	 0.9900	 0.2330
4Z	 0.9950	 0.2190
4a	 0.6040	 0.3270
4b	 0.7130	 0.3790
4c	 0.7460	 0.4040
4d	 0.7230	 0.3970
4e	 0.7260	 0.3990
4f	 0.7340	 0.3820
4g	 0.7520	 0.4110
4h	 0.6350	 0.3530
5A	 0.8630	 0.1960
5B	 1.0000	 0.2960
5C	 0.9870	 0.1560
5D	 0.9950	 0.1740
5E	 0.8180	 0.3270
5F	 0.7170	 0.2200
5G	 0.7330	 0.2050
5H	 0.7770	 0.2400
5I	 0.8210	 0.3050
5J	 0.7320	 0.2860

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Chain	Atom inclusion	Q-score
5K	 0.7840	 0.2660
5L	 0.3860	 -0.0190
5M	 0.8910	 0.2500
5N	 0.6780	 0.1350
5O	 0.5380	 0.1390
5P	 0.7090	 0.2840
5Q	 0.8310	 0.2110
5R	 0.8460	 0.2190
5S	 0.7590	 0.3020
5T	 0.7410	 0.2960
5U	 0.7430	 0.2920
5V	 0.7660	 0.2950
5W	 0.9610	 0.2070
5X	 0.7900	 0.3030
5Y	 0.9940	 0.2860
5Z	 0.9180	 0.3220
5a	 0.5220	 0.2690
5b	 0.6960	 0.3700
5c	 0.7250	 0.3810
5d	 0.7120	 0.3840
5e	 0.7060	 0.3660
5f	 0.7290	 0.3770
5g	 0.7290	 0.3600
5h	 0.6290	 0.3390
6A	 0.5910	 0.1920
6B	 0.7190	 0.2660
6D	 0.8090	 0.3340
6E	 0.7320	 0.3210
6F	 0.7260	 0.3150
6G	 0.5100	 0.2830
6H	 0.5140	 0.2820
6I	 0.5360	 0.3380
6J	 0.5370	 0.3450
6K	 0.5900	 0.3200
6L	 0.5880	 0.3230
6M	 0.6980	 0.3180
6N	 0.6940	 0.3250
6O	 0.6130	 0.1910
6P	 0.6550	 0.1850
6Q	 0.7770	 0.2210
6a	 0.5320	 0.2520
6b	 0.6940	 0.3470

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Chain	Atom inclusion	Q-score
6c	 0.7050	 0.3350
6d	 0.7170	 0.3820
6e	 0.7360	 0.3800
6f	 0.7350	 0.3740
6g	 0.7710	 0.3940
6h	 0.6550	 0.3590
7a	 0.5520	 0.2620
7b	 0.6890	 0.3570
7c	 0.6930	 0.3500
7d	 0.6890	 0.3600
7e	 0.7100	 0.3520
7f	 0.7500	 0.3800
7g	 0.7700	 0.4040
7h	 0.6850	 0.3800
8a	 0.4880	 0.2030
8b	 0.6950	 0.3660
8c	 0.7040	 0.3770
8d	 0.6830	 0.3650
8e	 0.6910	 0.3670
8f	 0.7250	 0.3570
8g	 0.7400	 0.3760
8h	 0.6410	 0.3520
9a	 0.5970	 0.3180
9b	 0.7240	 0.3890
9c	 0.7390	 0.3950
9d	 0.7120	 0.3780
9e	 0.7110	 0.3630
9f	 0.7430	 0.3920
9g	 0.7340	 0.3810
9h	 0.6700	 0.3700
Aa	 0.6200	 0.3240
Ab	 0.7200	 0.3880
Ac	 0.7560	 0.4150
Ad	 0.7180	 0.3880
Ae	 0.7500	 0.4060
Af	 0.7560	 0.4000
Ag	 0.7560	 0.4130
Ah	 0.6720	 0.3740
Ba	 0.6750	 0.4000
Bb	 0.7550	 0.4110
Bc	 0.7460	 0.3610
Bd	 0.7530	 0.4020

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Chain	Atom inclusion	Q-score
Be	 0.7620	 0.4010
Bf	 0.7700	 0.4060
Bg	 0.7530	 0.3840
Bh	 0.7010	 0.3960
Ca	 0.6860	 0.4150
Cb	 0.7430	 0.4180
Cc	 0.7710	 0.4190
Cd	 0.7560	 0.4180
Ce	 0.7650	 0.4000
Cf	 0.7660	 0.4210
Cg	 0.7590	 0.4260
Ch	 0.6860	 0.4070
Da	 0.7310	 0.4170
Db	 0.7830	 0.4210
Dc	 0.8150	 0.4470
Dd	 0.7790	 0.4220
De	 0.7820	 0.4110
Df	 0.7750	 0.4200
Dg	 0.7880	 0.4240
Dh	 0.6840	 0.3920