



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 11:12 AM UTC

PDB ID : 7N61 / pdb_00007n61
EMDB ID : EMD-24191
Title : structure of C2 projections and MIPs
Authors : Han, L.; Zhang, K.
Deposited on : 2021-06-07
Resolution : 3.50 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:

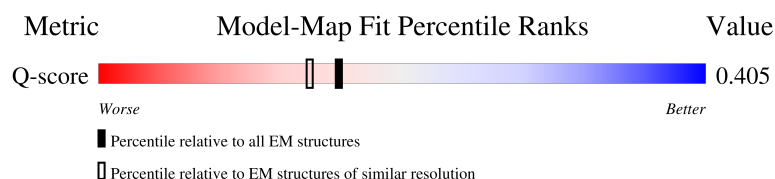
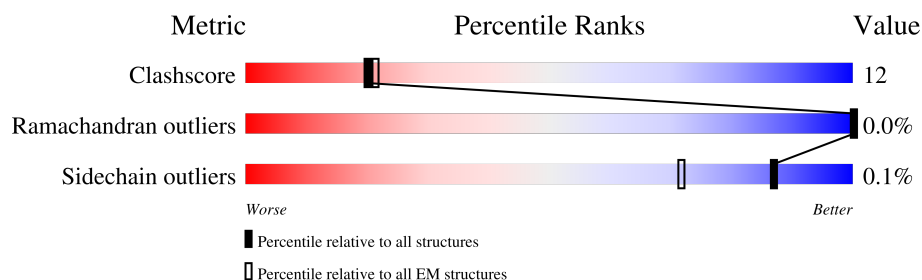
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data 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 3.50 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	13950 (3.00 - 4.00)

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	606	17% 54% 23% 23%
1	0B	606	10% 51% 26% 23%
1	0C	606	15% 52% 27% 21%
1	0D	606	34% 51% 27% 21%

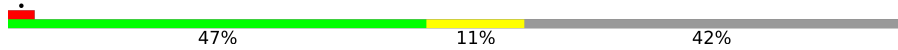
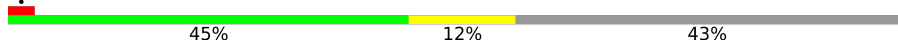
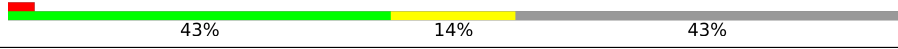
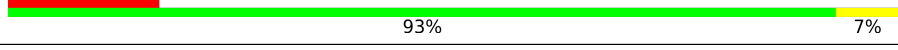
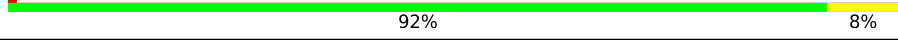
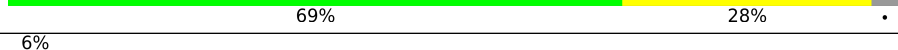
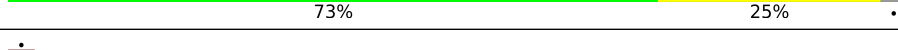
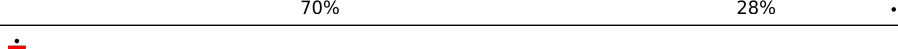
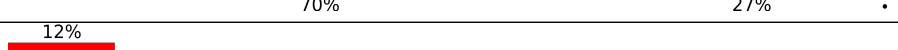
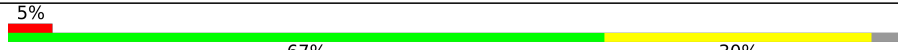
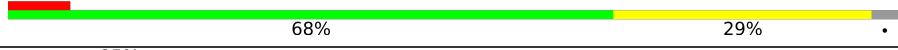
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
2	0E	222	
2	0F	222	
2	0G	222	
2	0H	222	
3	0I	976	
3	0J	976	
4	0K	528	
4	0L	528	
5	0M	758	
5	0N	758	
6	0O	201	
6	0P	201	
7	0Q	618	
7	0S	618	
8	0T	169	
9	0U	170	
10	0V	160	
11	0W	39	
12	0X	776	
12	0Y	776	
12	0Z	776	
12	1A	776	
13	1B	2257	
13	1C	2257	
14	1D	1074	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
14	1E	1074	
14	1F	1074	
14	1G	1074	
15	1H	88	
16	1L	174	
16	1M	174	
17	1a	443	
17	1c	443	
17	1e	443	
17	1g	443	
17	2a	443	
17	2c	443	
17	2e	443	
17	2g	443	
17	3a	443	
17	3c	443	
17	3e	443	
17	3g	443	
17	4a	443	
17	4c	443	
17	4e	443	
17	4g	443	
17	5a	443	
17	5c	443	
17	5e	443	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
17	5g	443	
17	6a	443	
17	6c	443	
17	6e	443	
17	6g	443	
17	7a	443	
17	7c	443	
17	7e	443	
17	7g	443	
17	8a	443	
17	8c	443	
17	8e	443	
17	8g	443	
17	9a	443	
17	9c	443	
17	9e	443	
17	9g	443	
17	Aa	443	
17	Ac	443	
17	Ae	443	
17	Ag	443	
17	Ba	443	
17	Bc	443	
17	Be	443	
17	Bg	443	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
17	Ca	443	
17	Cc	443	
17	Ce	443	
17	Cg	443	
17	Da	443	
17	Dc	443	
17	De	443	
17	Dg	443	
18	1b	451	
18	1d	451	
18	1f	451	
18	1h	451	
18	2b	451	
18	2d	451	
18	2f	451	
18	2h	451	
18	3b	451	
18	3d	451	
18	3f	451	
18	3h	451	
18	4b	451	
18	4d	451	
18	4f	451	
18	4h	451	
18	5b	451	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
18	5d	451	
18	5f	451	
18	5h	451	
18	6b	451	
18	6d	451	
18	6f	451	
18	6h	451	
18	7b	451	
18	7d	451	
18	7f	451	
18	7h	451	
18	8b	451	
18	8d	451	
18	8f	451	
18	8h	451	
18	9b	451	
18	9d	451	
18	9f	451	
18	9h	451	
18	Ab	451	
18	Ad	451	
18	Af	451	
18	Ah	451	
18	Bb	451	
18	Bd	451	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
18	Bf	451	
18	Bh	451	
18	Cb	451	
18	Cd	451	
18	Cf	451	
18	Ch	451	
18	Db	451	
18	Dd	451	
18	Df	451	
18	Dh	451	

2 Entry composition

There are 21 unique types of molecules in this entry. The entry contains 443856 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 Flagellar WD repeat-containing protein Pf20.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0A	467	Total	C	N	O	S	0	0
			3656	2298	650	685	23		
1	0B	467	Total	C	N	O	S	0	0
			3656	2298	650	685	23		
1	0C	476	Total	C	N	O	S	0	0
			3726	2343	664	696	23		
1	0D	476	Total	C	N	O	S	0	0
			3726	2343	664	696	23		

- Molecule 2 is a protein called FAP178.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	0E	128	Total	C	N	O	S	0	0
			1008	640	180	184	4		
2	0F	128	Total	C	N	O	S	0	0
			1008	640	180	184	4		
2	0G	128	Total	C	N	O	S	0	0
			1008	640	180	184	4		
2	0H	128	Total	C	N	O	S	0	0
			1008	640	180	184	4		

- Molecule 3 is a protein called FAP147.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	0I	448	Total	C	N	O	S	0	0
			3321	2062	633	616	10		
3	0J	448	Total	C	N	O	S	0	0
			3321	2062	633	616	10		

- Molecule 4 is a protein called FAP239.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	0K	166	Total	C	N	O	S	0	0
			1216	747	229	239	1		
4	0L	166	Total	C	N	O	S	0	0
			1216	747	229	239	1		

- Molecule 5 is a protein called FAP225.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	0M	515	Total	C	N	O	S	0	0
			4037	2487	769	768	13		
5	0N	515	Total	C	N	O	S	0	0
			4037	2487	769	768	13		

- Molecule 6 is a protein called FAP213.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	0O	188	Total	C	N	O	S	0	0
			1481	897	294	287	3		
6	0P	188	Total	C	N	O	S	0	0
			1481	897	294	287	3		

- Molecule 7 is a protein called FAP196.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	0Q	617	Total	C	N	O	S	0	0
			4537	2823	824	857	33		
7	0S	617	Total	C	N	O	S	0	0
			4537	2823	824	857	33		

- Molecule 8 is a protein called Unassigned protein-1.

Mol	Chain	Residues	Atoms				AltConf	Trace
8	0T	169	Total	C	N	O	0	0
			845	507	169	169		

- Molecule 9 is a protein called Unassigned protein-2.

Mol	Chain	Residues	Atoms				AltConf	Trace
9	0U	170	Total	C	N	O	0	0
			850	510	170	170		

- Molecule 10 is a protein called Unassigned protein-3.

Mol	Chain	Residues	Atoms				AltConf	Trace
10	0V	160	Total	C	N	O	0	0
			800	480	160	160		

- Molecule 11 is a protein called Unassigned protein-4.

Mol	Chain	Residues	Atoms				AltConf	Trace
11	0W	39	Total	C	N	O	0	0
			195	117	39	39		

- Molecule 12 is a protein called Kinesin-like protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	0X	420	Total	C	N	O	S	0	0
			3098	1921	561	608	8		
12	0Y	404	Total	C	N	O	S	0	0
			2903	1800	527	569	7		
12	0Z	420	Total	C	N	O	S	0	0
			3098	1921	561	608	8		
12	1A	404	Total	C	N	O	S	0	0
			2903	1800	527	569	7		

- Molecule 13 is a protein called FAP65.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	1B	630	Total	C	N	O	S	0	0
			4771	3018	865	874	14		
13	1C	630	Total	C	N	O	S	0	0
			4771	3018	865	874	14		

- Molecule 14 is a protein called FAP70.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	1D	623	Total	C	N	O	S	0	0
			4079	2527	756	781	15		
14	1E	623	Total	C	N	O	S	0	0
			4079	2527	756	781	15		
14	1F	614	Total	C	N	O	S	0	0
			4370	2725	808	821	16		
14	1G	614	Total	C	N	O	S	0	0
			4370	2725	808	821	16		

- Molecule 15 is a protein called Unassigned protein-5.

Mol	Chain	Residues	Atoms				AltConf	Trace
15	1H	88	Total	C	N	O	0	0
			440	264	88	88		

- Molecule 16 is a protein called Unassigned protein-6.

Mol	Chain	Residues	Atoms				AltConf	Trace
16	1M	174	Total	C	N	O	0	0
			870	522	174	174		
16	1L	174	Total	C	N	O	0	0
			870	522	174	174		

- Molecule 17 is a protein called Tubulin beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	1a	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	1c	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	1e	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	1g	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	2a	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	2c	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	2e	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	2g	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	3a	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	3c	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	3e	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	3g	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	4a	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	4c	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	4e	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
17	4g	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	5a	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	5c	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	5e	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	5g	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	6a	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	6c	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	6e	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	6g	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	7a	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	7c	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	7e	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	7g	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	8a	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	8c	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	8e	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	8g	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	9a	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	9c	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	9e	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
17	9g	431	Total 3379	C 2121	N 579	O 649	S 30	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
17	Aa	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Ac	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Ae	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Ag	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Ba	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Bc	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Be	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Bg	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Ca	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Cc	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Ce	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Cg	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Da	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Dc	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	De	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
17	Dg	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		

- Molecule 18 is a protein called Tubulin alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	1b	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	1d	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	1f	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
18	1h	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	2b	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	2d	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	2f	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	2h	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	3b	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	3d	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	3f	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	3h	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	4b	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	4d	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	4f	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	4h	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	5b	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	5d	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	5f	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	5h	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	6b	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	6d	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	6f	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	6h	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		

Continued on next page...

Continued from previous page...

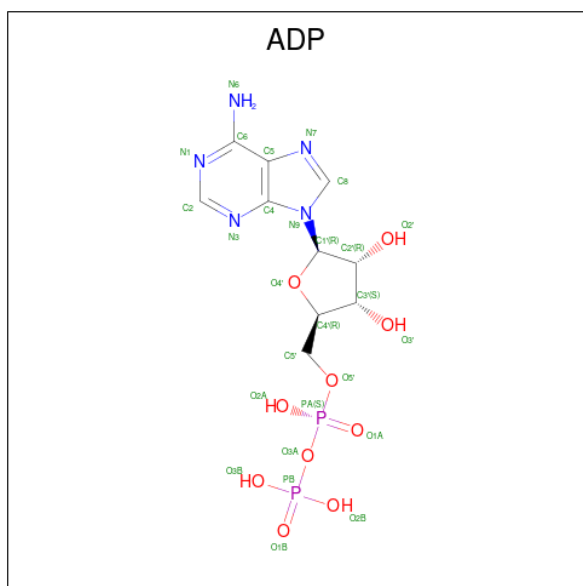
Mol	Chain	Residues	Atoms					AltConf	Trace
18	7b	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	7d	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	7f	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	7h	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	8b	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	8d	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	8f	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	8h	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	9b	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	9d	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	9f	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	9h	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	Ab	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	Ad	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	Af	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	Ah	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	Bb	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	Bd	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	Bf	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	Bh	430	Total 3339	C 2115	N 568	O 634	S 22	0	0
18	Cb	430	Total 3339	C 2115	N 568	O 634	S 22	0	0

Continued on next page...

Continued from previous page...

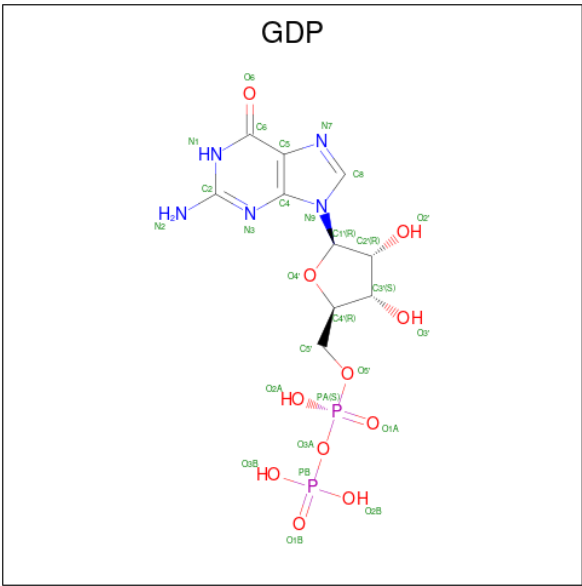
Mol	Chain	Residues	Atoms					AltConf	Trace
18	Cd	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	Cf	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	Ch	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	Db	430	Total	C	N	O	S	0	0
			3339	2115	568	634	22		
18	Dd	430	Total	C	N	O	S	0	0
			3339	2115	568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

- Molecule 19 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
19	0X	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	0Y	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	0Z	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	1A	1	Total	C	N	O	P	0
			27	10	5	10	2	

- Molecule 20 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: C₁₀H₁₅N₅O₁₁P₂).



Continued from previous page...

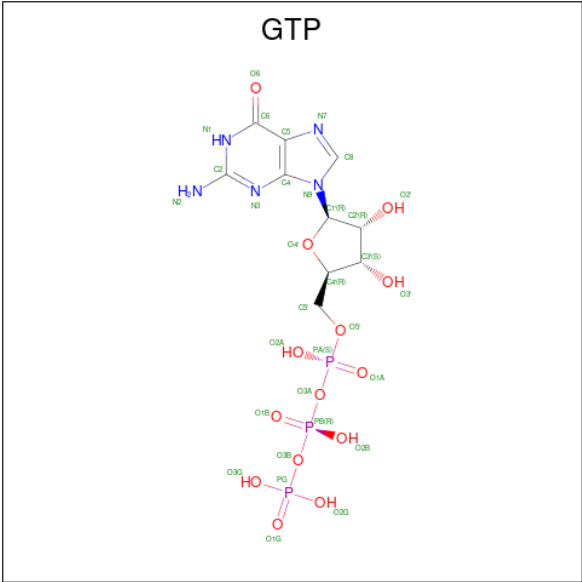
Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
20	4c	1	28	10	5	11	2	0
20	4e	1	28	10	5	11	2	0
20	4g	1	28	10	5	11	2	0
20	5a	1	28	10	5	11	2	0
20	5c	1	28	10	5	11	2	0
20	5e	1	28	10	5	11	2	0
20	5g	1	28	10	5	11	2	0
20	6a	1	28	10	5	11	2	0
20	6c	1	28	10	5	11	2	0
20	6e	1	28	10	5	11	2	0
20	6g	1	28	10	5	11	2	0
20	7a	1	28	10	5	11	2	0
20	7c	1	28	10	5	11	2	0
20	7e	1	28	10	5	11	2	0
20	7g	1	28	10	5	11	2	0
20	8a	1	28	10	5	11	2	0
20	8c	1	28	10	5	11	2	0
20	8e	1	28	10	5	11	2	0
20	8g	1	28	10	5	11	2	0
20	9a	1	28	10	5	11	2	0
20	9c	1	28	10	5	11	2	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf
20	9e	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	9g	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Aa	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Ac	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Ae	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Ag	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Ba	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Bc	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Be	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Bg	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Ca	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Cc	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Ce	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Cg	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Da	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Dc	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	De	1	Total	C	N	O	P	0
			28	10	5	11	2	
20	Dg	1	Total	C	N	O	P	0
			28	10	5	11	2	

- Molecule 21 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula: C₁₀H₁₆N₅O₁₄P₃).



Mol	Chain	Residues	Atoms					AltConf
21	1b	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	1d	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	1f	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	1h	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	2b	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	2d	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	2f	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	2h	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	3b	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	3d	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	3f	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	3h	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	4b	1	Total	C	N	O	P	0
			32	10	5	14	3	
21	4d	1	Total	C	N	O	P	0
			32	10	5	14	3	

Continued on next page...

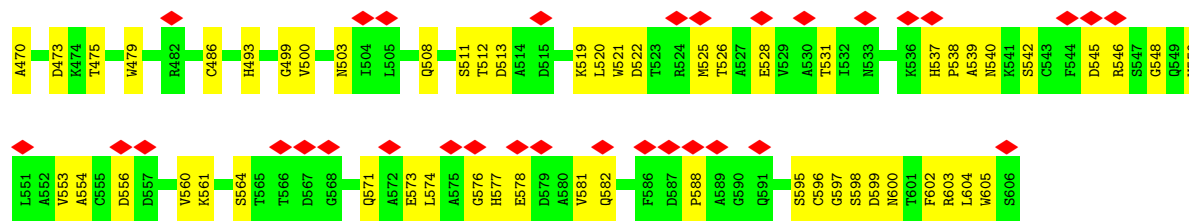
Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf
21	4f	1	Total 32	C 10	N 5	O 14	P 3	0
21	4h	1	Total 32	C 10	N 5	O 14	P 3	0
21	5b	1	Total 32	C 10	N 5	O 14	P 3	0
21	5d	1	Total 32	C 10	N 5	O 14	P 3	0
21	5f	1	Total 32	C 10	N 5	O 14	P 3	0
21	5h	1	Total 32	C 10	N 5	O 14	P 3	0
21	6b	1	Total 32	C 10	N 5	O 14	P 3	0
21	6d	1	Total 32	C 10	N 5	O 14	P 3	0
21	6f	1	Total 32	C 10	N 5	O 14	P 3	0
21	6h	1	Total 32	C 10	N 5	O 14	P 3	0
21	7b	1	Total 32	C 10	N 5	O 14	P 3	0
21	7d	1	Total 32	C 10	N 5	O 14	P 3	0
21	7f	1	Total 32	C 10	N 5	O 14	P 3	0
21	7h	1	Total 32	C 10	N 5	O 14	P 3	0
21	8b	1	Total 32	C 10	N 5	O 14	P 3	0
21	8d	1	Total 32	C 10	N 5	O 14	P 3	0
21	8f	1	Total 32	C 10	N 5	O 14	P 3	0
21	8h	1	Total 32	C 10	N 5	O 14	P 3	0
21	9b	1	Total 32	C 10	N 5	O 14	P 3	0
21	9d	1	Total 32	C 10	N 5	O 14	P 3	0
21	9f	1	Total 32	C 10	N 5	O 14	P 3	0

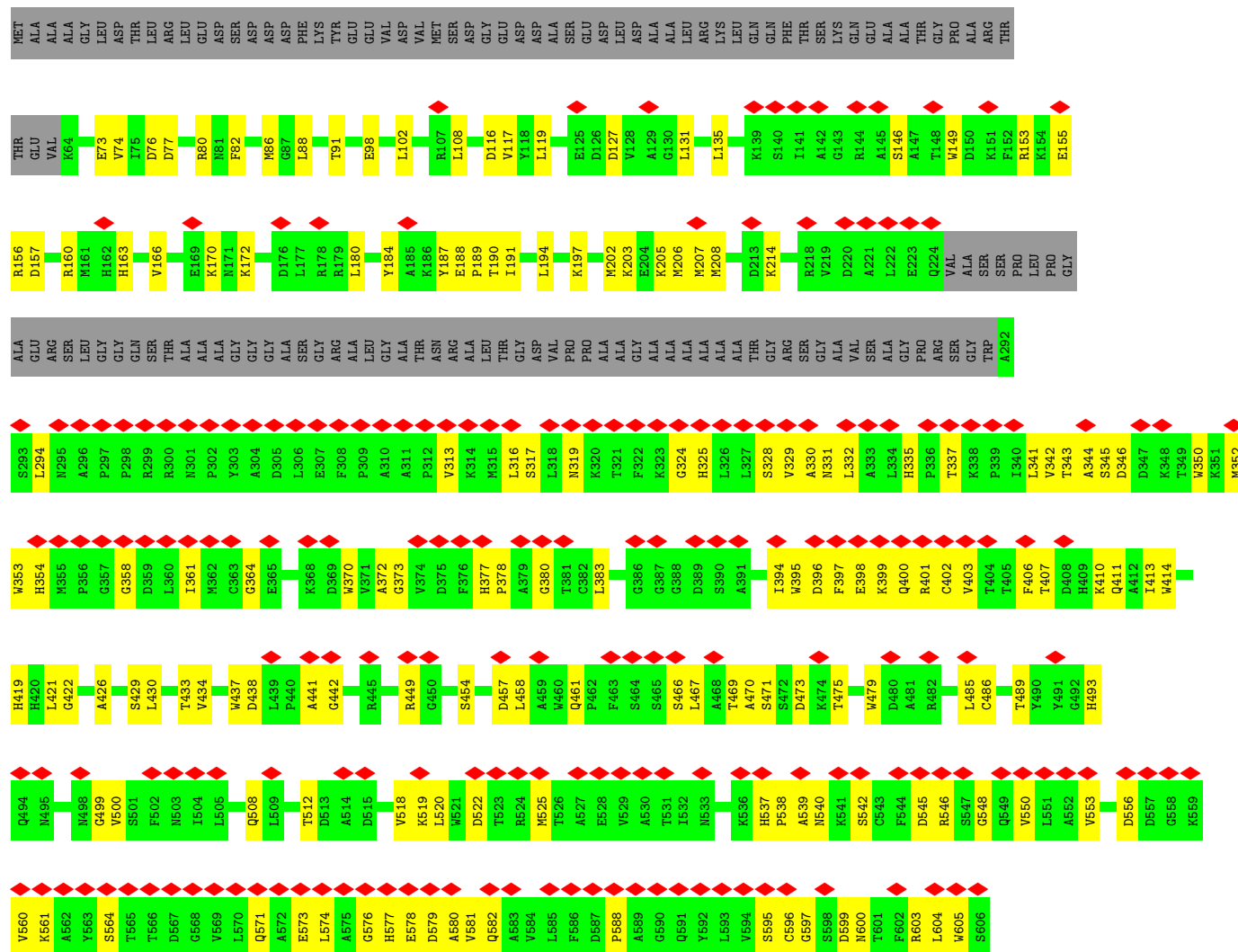
Continued on next page...

Continued from previous page...

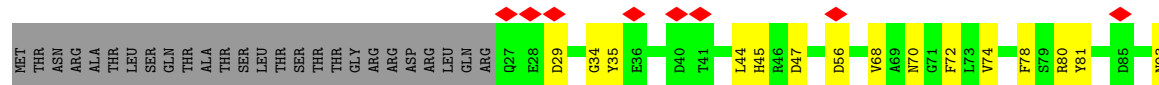
Mol	Chain	Residues	Atoms					AltConf
21	9h	1	Total 32	C 10	N 5	O 14	P 3	0
21	Ab	1	Total 32	C 10	N 5	O 14	P 3	0
21	Ad	1	Total 32	C 10	N 5	O 14	P 3	0
21	Af	1	Total 32	C 10	N 5	O 14	P 3	0
21	Ah	1	Total 32	C 10	N 5	O 14	P 3	0
21	Bb	1	Total 32	C 10	N 5	O 14	P 3	0
21	Bd	1	Total 32	C 10	N 5	O 14	P 3	0
21	Bf	1	Total 32	C 10	N 5	O 14	P 3	0
21	Bh	1	Total 32	C 10	N 5	O 14	P 3	0
21	Cb	1	Total 32	C 10	N 5	O 14	P 3	0
21	Cd	1	Total 32	C 10	N 5	O 14	P 3	0
21	Cf	1	Total 32	C 10	N 5	O 14	P 3	0
21	Ch	1	Total 32	C 10	N 5	O 14	P 3	0
21	Db	1	Total 32	C 10	N 5	O 14	P 3	0
21	Dd	1	Total 32	C 10	N 5	O 14	P 3	0
21	Df	1	Total 32	C 10	N 5	O 14	P 3	0
21	Dh	1	Total 32	C 10	N 5	O 14	P 3	0



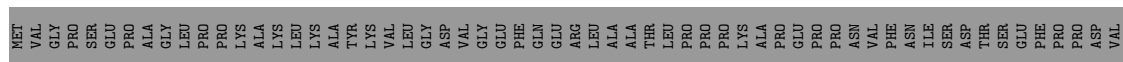
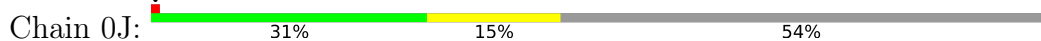
• Molecule 1: Flagellar WD repeat-containing protein Pf20

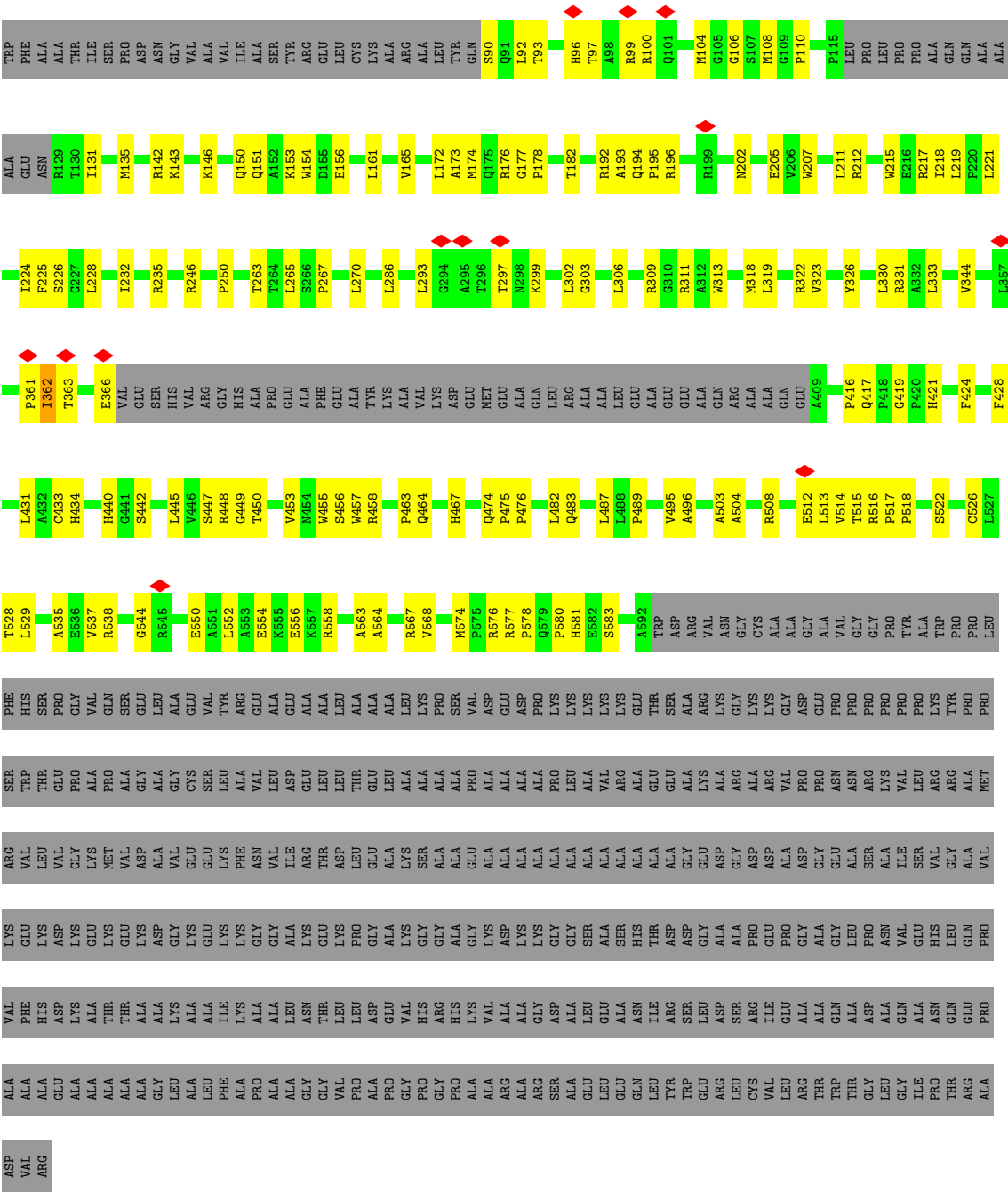


• Molecule 2: FAP178

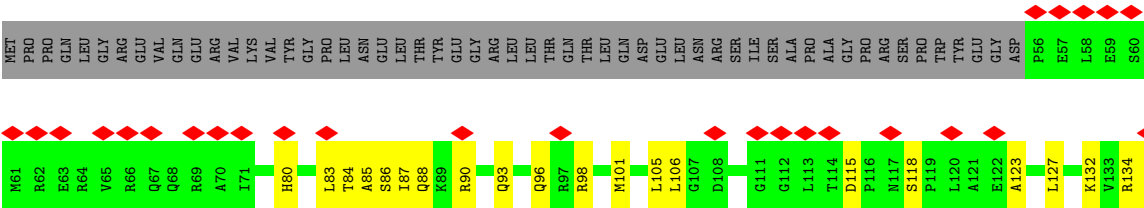


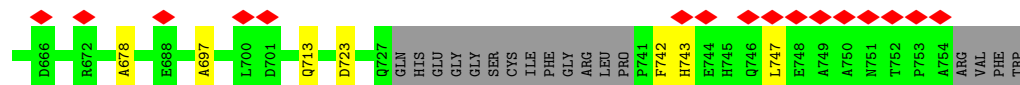
Chain 0I: 32% 14% 54%





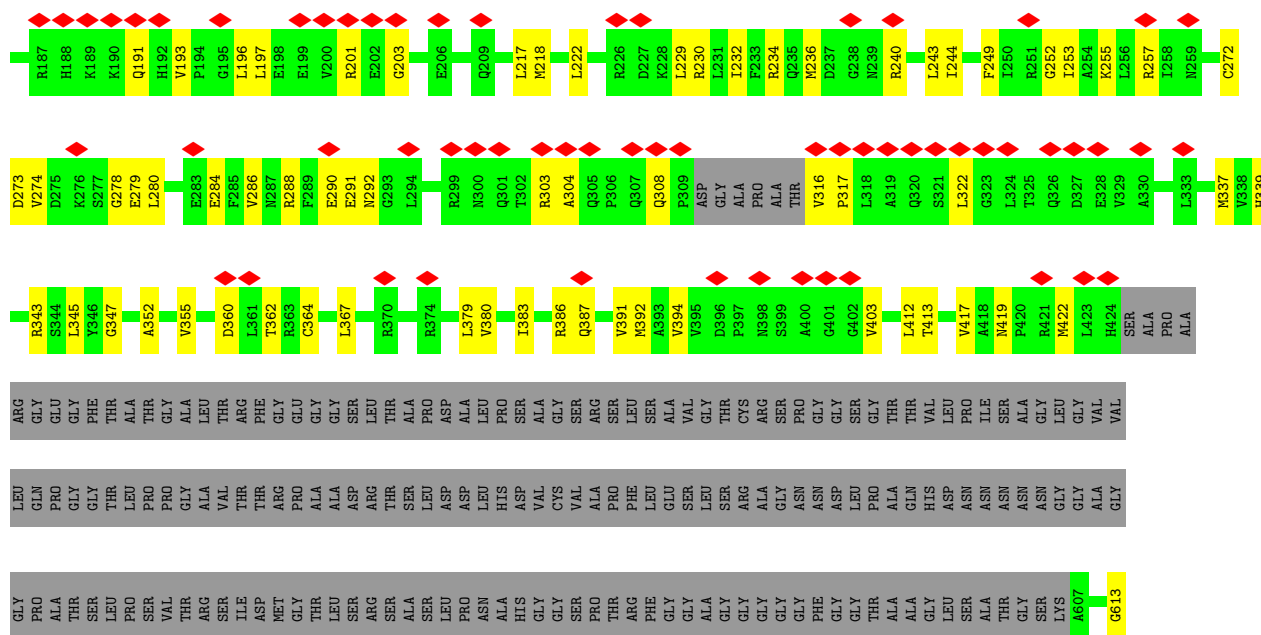
● Molecule 4: FAP239



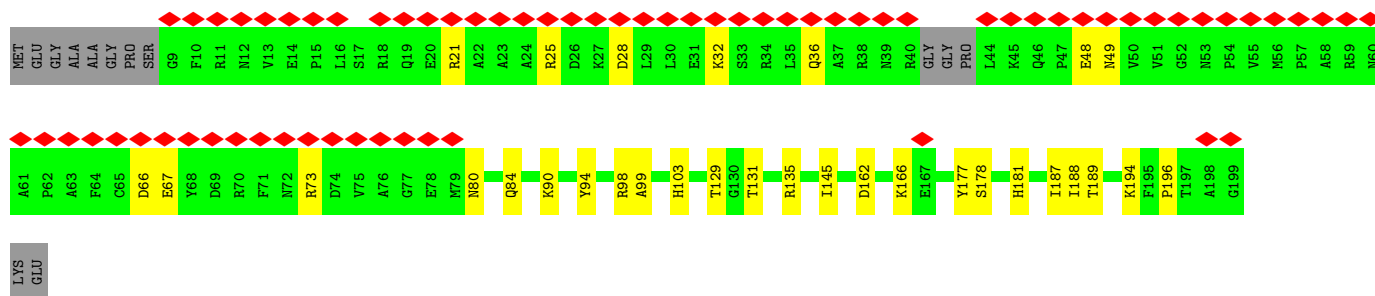
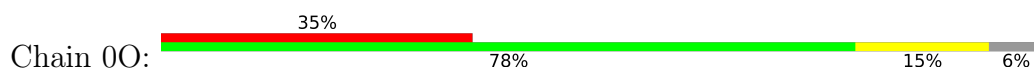


Chain 0N:

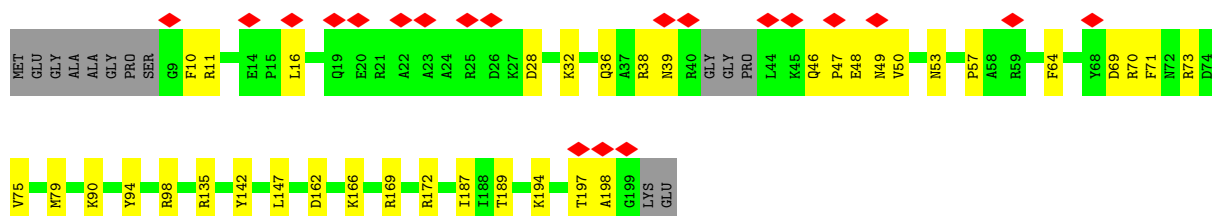
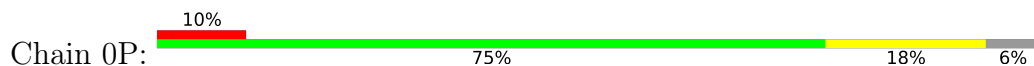




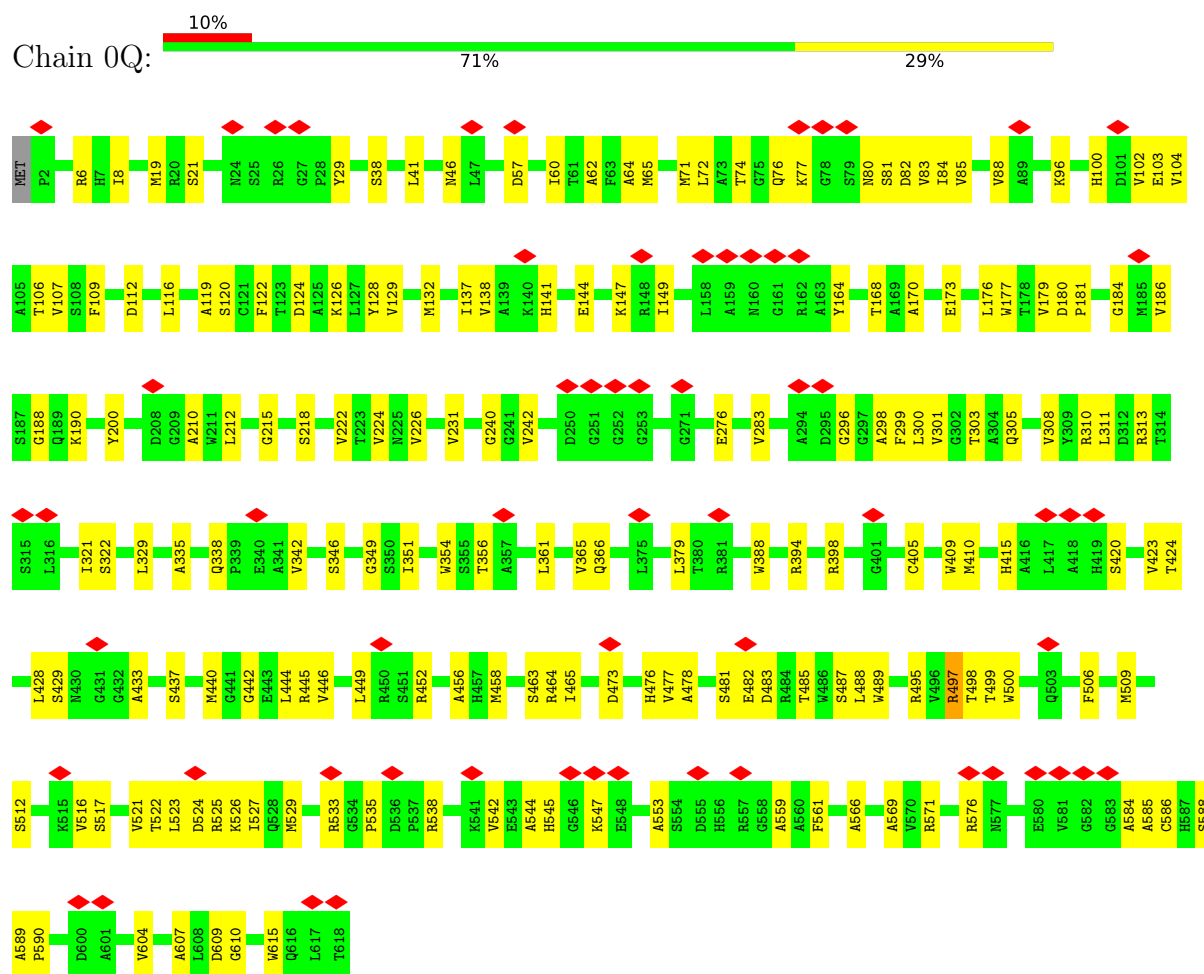
• Molecule 6: FAP213



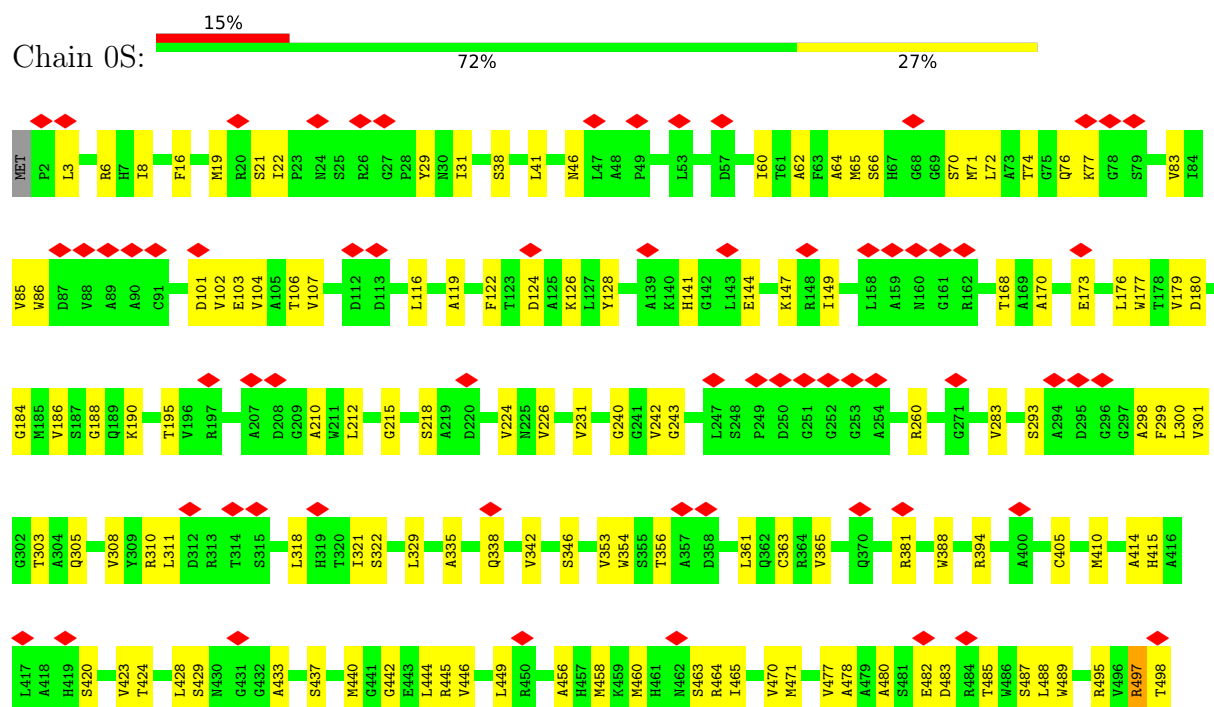
• Molecule 6: FAP213

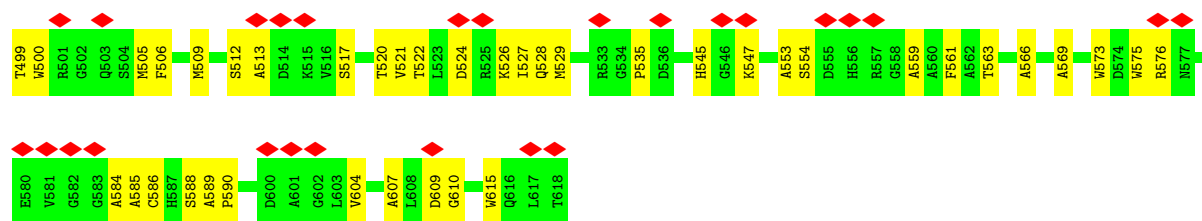


- Molecule 7: FAP196

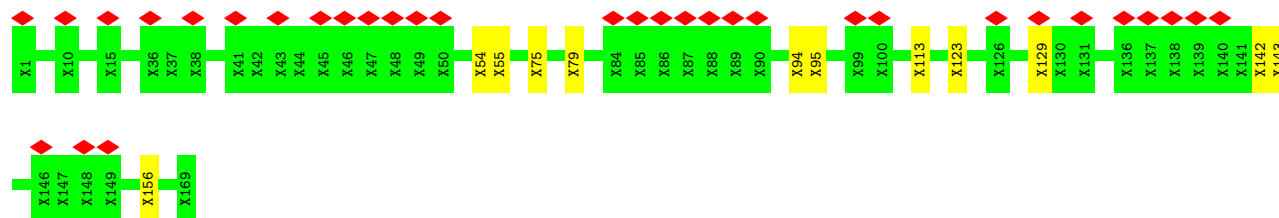


- Molecule 7: FAP196

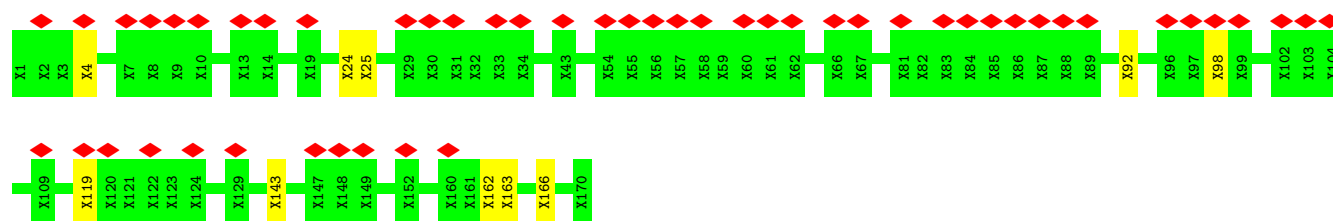




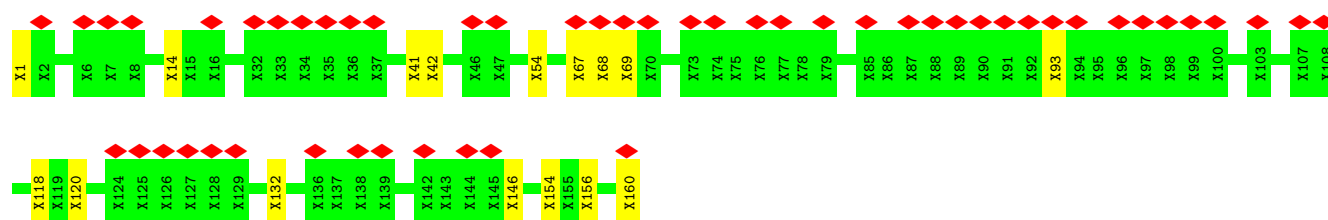
• Molecule 8: Unassigned protein-1



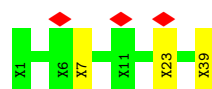
• Molecule 9: Unassigned protein-2



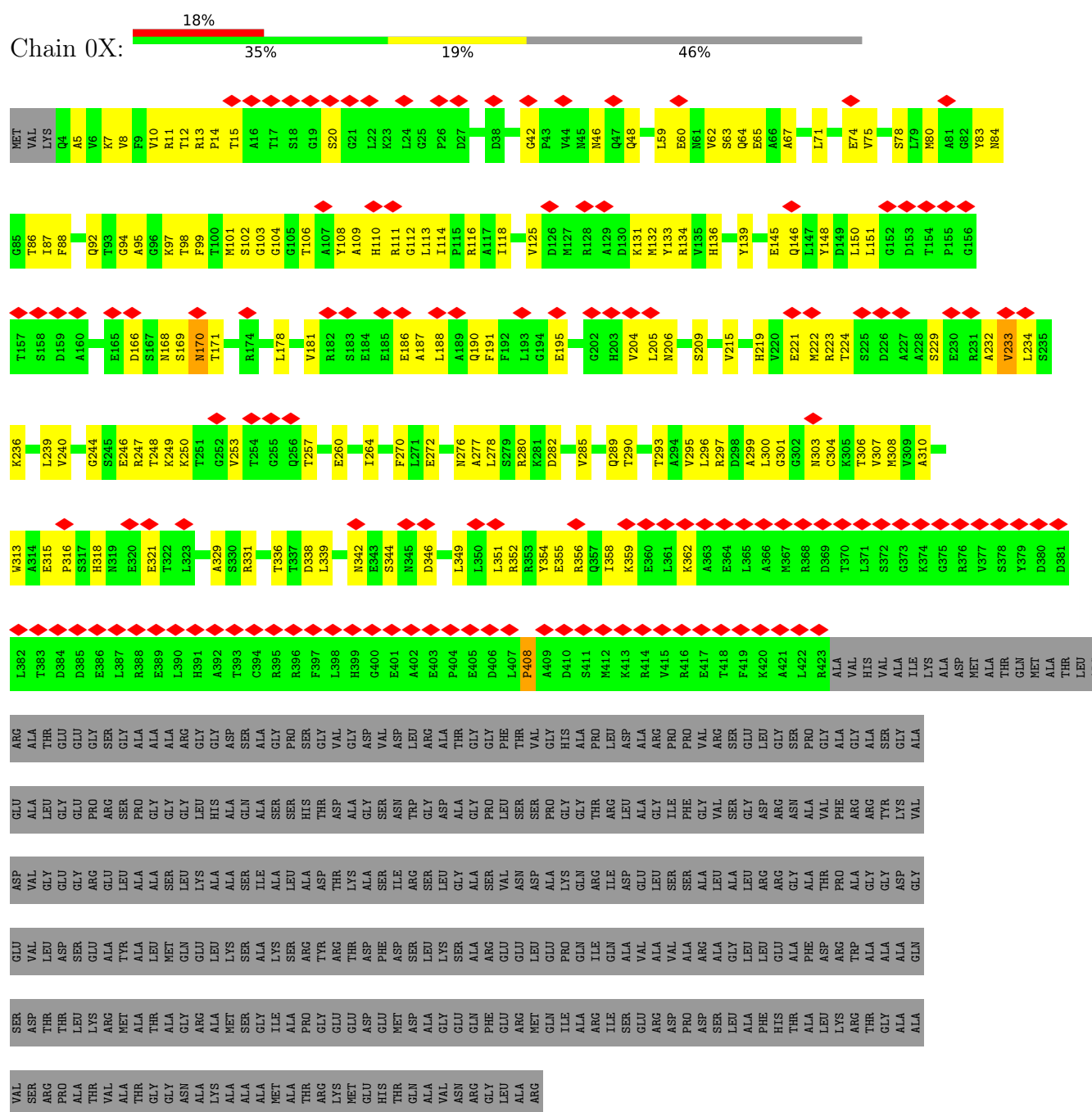
• Molecule 10: Unassigned protein-3



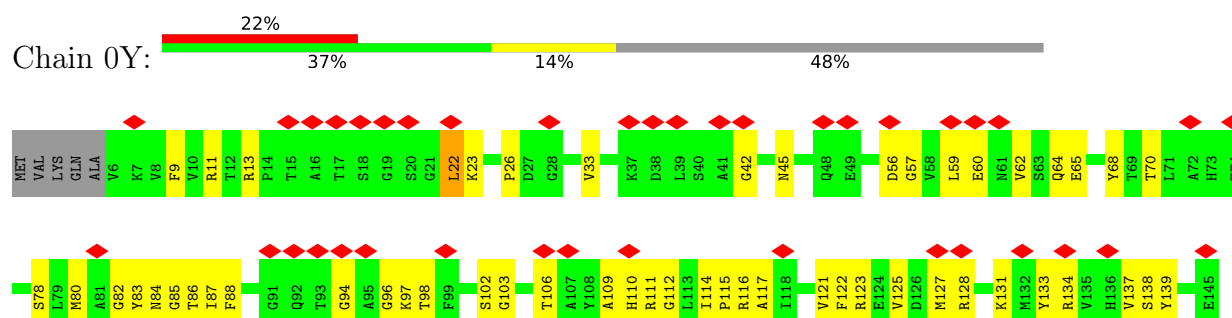
• Molecule 11: Unassigned protein-4

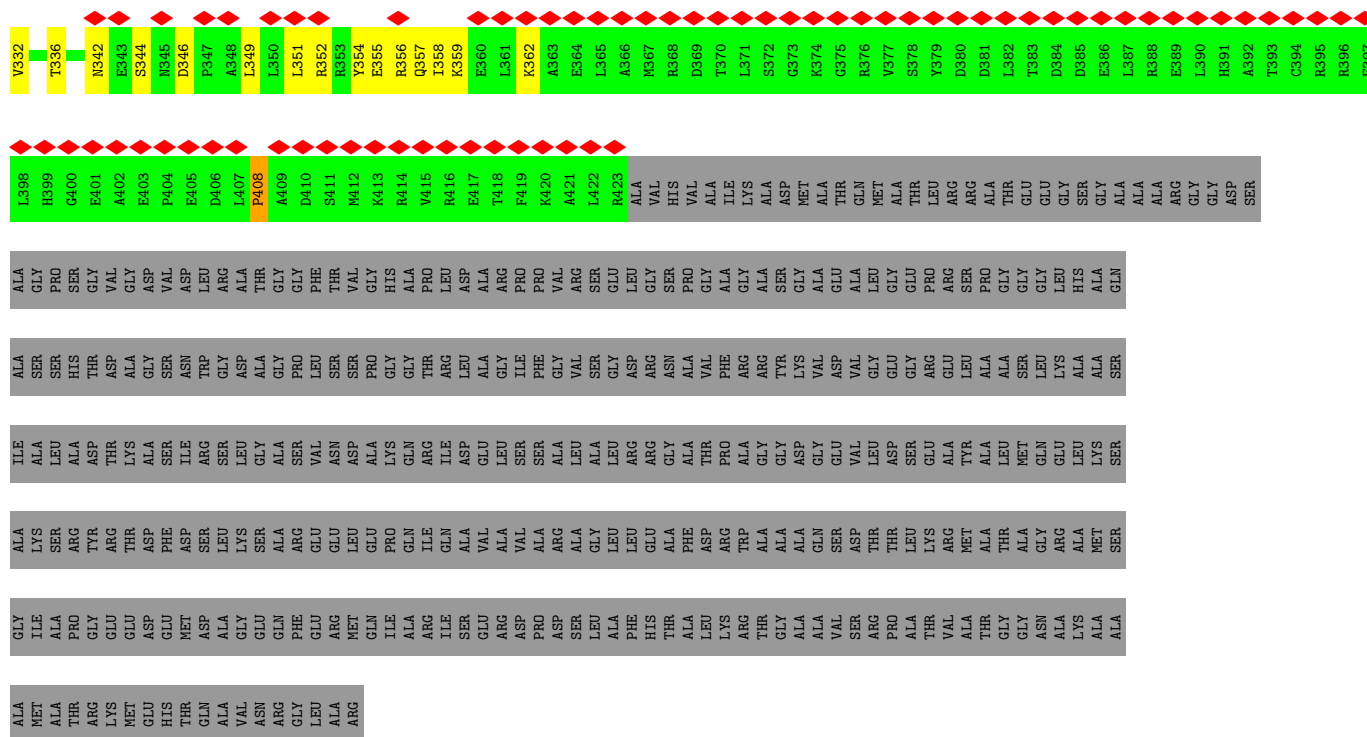


• Molecule 12: Kinesin-like protein

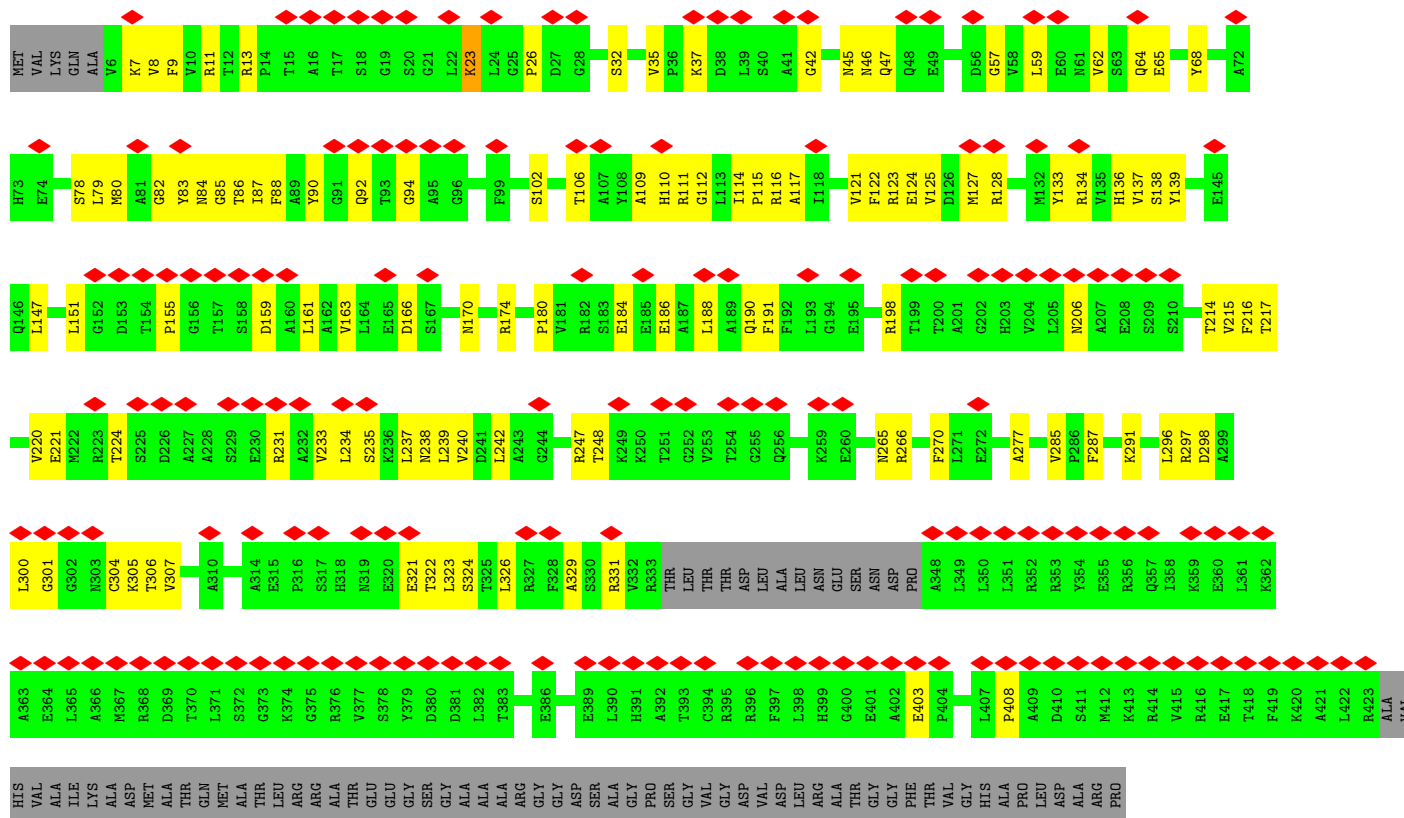
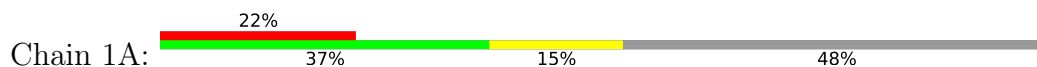


- Molecule 12: Kinesin-like protein





• Molecule 12: Kinesin-like protein



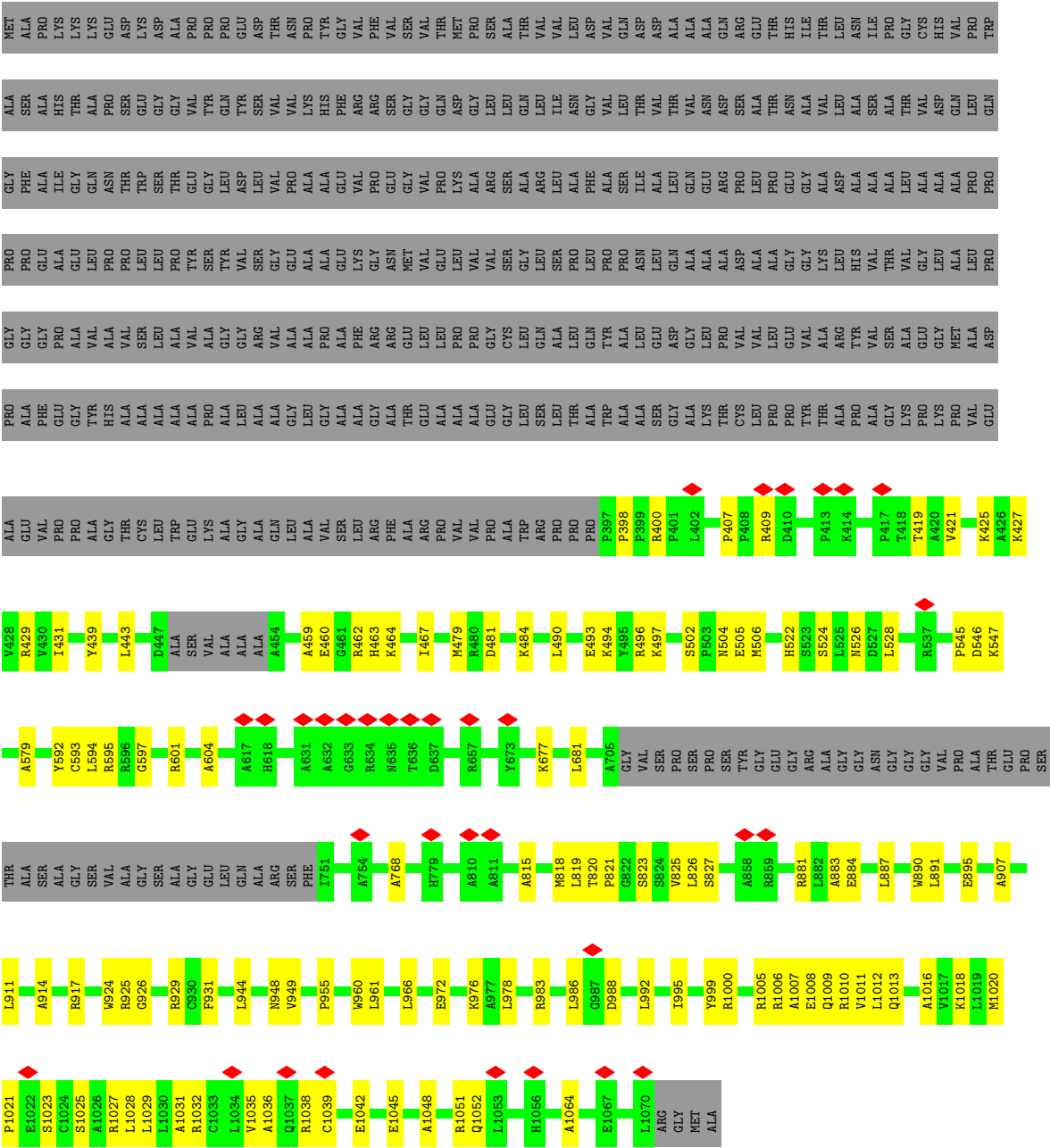


- Molecule 13: FAP65

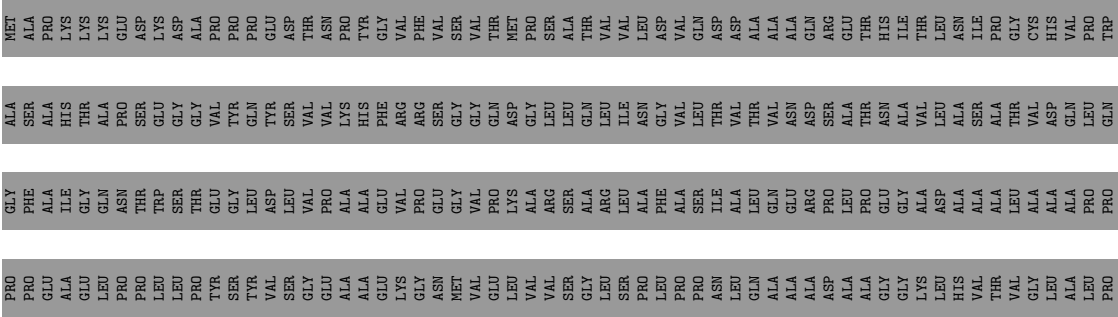


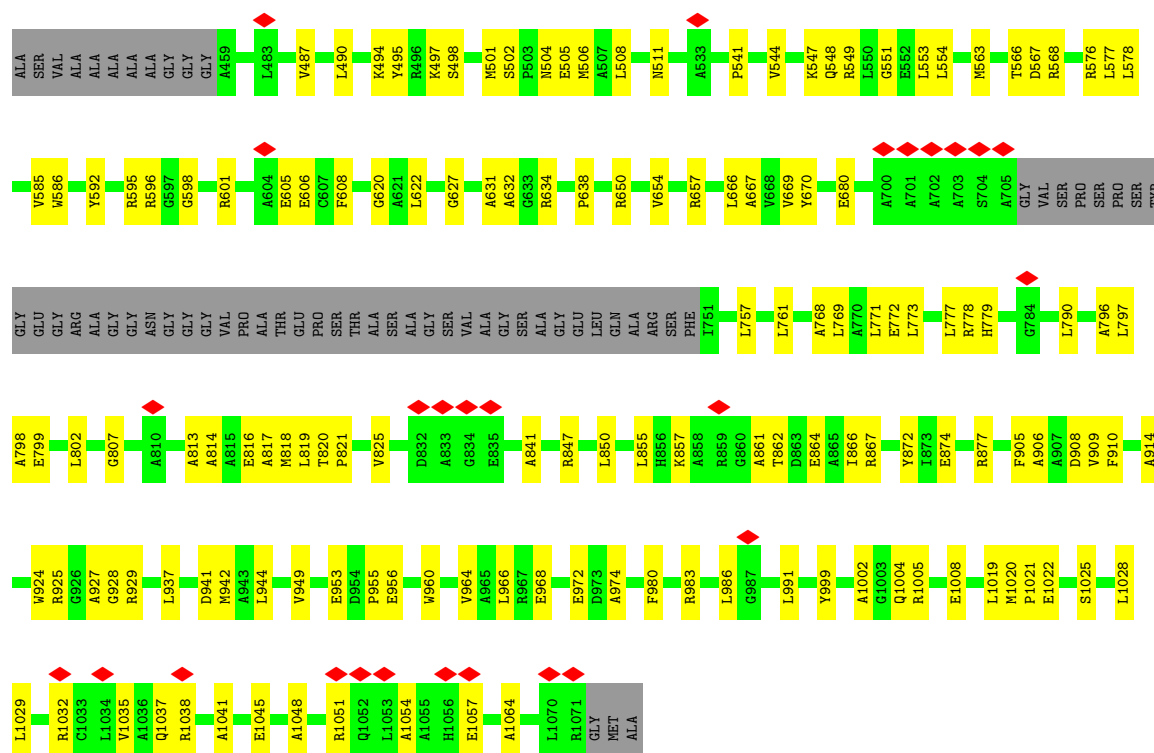
GLY	VAL	ASP	SER	THR	ASP	ASP	GLY	GLU	HIS	ARG	VAL	SER	VAL	THR	MET
ALA	GLN	LEU	ALA	PHE	MET	ALA	ALA	PRO	SER	ALA	THR	VAL	PRO	SER	PRO
THR	LEU	PRO	LYS	LEU	ARG	LEU	SER	GLN	ALA	THR	THR	VAL	VAL	VAL	ALA
ALA	GLN	SER	PRO	HIS	GLY	ASP	GLY	GLY	VAL	GLY	THR	GLY	HIS	LYS	SER
LEU	TRP	SER	ALA	SER	TYR	PHE	GLY	VAL	PRO	THR	THR	ARG	ALA	ASN	GLY
LEU	PHE	THR	GLY	ASN	GLN	SER	ALA	ASP	VAL	PHE	SER	THR	TYR	THR	GLY
ALA	ALA	LEU	VAL	PRO	GLN	CYS	GLY	LEU	PRO	SER	VAL	THR	THR	ALA	ALA
GLY	THR	TYR	VAL	GLU	GLY	CYS	GLY	VAL	TYR	THR	SER	GLU	PRO	ASP	GLN
GLY	PRO	PHE	VAL	PHE	GLY	ARG	GLY	ALA	ASP	GLU	GLU	ARG	VAL	GLY	GLN
GLY	ALA	ARG	PRO	GLY	THR	ARG	PHE	ALA	GLN	THR	THR	THR	HIS	PRO	THR
GLY	GLN	THR	GLN	VAL	ALA	SER	SER	PRO	VAL	ILE	HIS	ILE	ILE	ILE	ALA
GLY	LYS	CYS	GLY	VAL	GLY	SER	LEU	PRO	ASP	PHE	GLY	PHE	SER	GLY	PRO
ALA	LEU	VAL	HIS	GLU	GLY	GLY	GLY	ASP	PRO	GLY	GLY	GLY	VAL	GLY	GLY
ALA	THR	GLY	VAL	LEU	ARG	PHE	THR	LYS	SER	THR	THR	ASN	THR	ALA	GLY
ALA	GLU	ALA	LEU	SER	PRO	TYR	GLY	ARG	VAL	ALA	GLY	GLY	GLY	GLY	GLY
VAL	ARG	SER	ALA	ARG	ARG	SER	SER	PRO	PHE	GLY	ASN	GLY	VAL	LEU	MET
LEU	ALA	GLN	LEU	ALA	ASP	VAL	LEU	PRO	ILE	ASN	VAL	VAL	VAL	GLU	ALA
LEU	ALA	ARG	ALA	VAL	ALA	THR	LEU	PRO	ALA	ARG	THR	PRO	PRO	CYS	ALA
LEU	CYS	ALA	PHE	ALA	PHE	VAL	PRO	LEU	SER	VAL	ALA	SER	GLY	SER	GLY
LEU	VAL	VAL	ALA	PHE	PHE	THR	THR	PRO	ARG	ALA	THR	HIS	HIS	TYR	ALA
VAL	VAL	THR	PRO	PRO	PHE	ASN	GLY	GLN	GLN	LEU	PHE	LEU	THR	THR	GLY
GLY	MET	LEU	THR	PRO	GLN	HIS	GLY	ARG	THR	ASN	ALA	ALA	PRO	PHE	SER
GLY	SER	HIS	ASP	CYS	GLN	THR	GLY	MET	ASP	GLY	VAL	VAL	THR	THR	GLY
GLY	PRO	ASN	THR	ARG	GLN	THR	VAL	ALA	SER	ALA	GLY	THR	LYS	GLY	GLY
THR	PRO	PRO	ARG	GLY	ALA	ALA	ALA	VAL	THR	PRO	ALA	GLY	GLY	GLY	GLY
GLN	GLY	SER	PRO	GLY	ALA	LYS	GLY	ARG	ALA	ALA	THR	THR	THR	VAL	GLY
ALA	ALA	ARG	ALA	ARG	VAL	LEU	GLY	TYR	PRO	VAL	VAL	VAL	GLY	GLY	GLY
VAL	ASN	PRO	ALA	VAL	VAL	THR	GLY	MET	ASP	THR	LEU	VAL	THR	VAL	GLY
VAL	ASN	PRO	ALA	VAL	ALA	THR	GLY	ALA	SER	PRO	LEU	GLY	GLY	GLY	GLY
GLY	GLY	VAL	ASN	HIS	HIS	PHE	GLY	ARG	THR	ALA	SER	PRO	THR	THR	GLY
ALA	THR	LEU	ASN	VAL	THR	VAL	GLY	ALA	PRO	THR	THR	THR	THR	THR	GLY
ALA	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	ILE	SER	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GLY	GLY	GLY	THR	LEU	VAL	THR	THR	GLY
LEU	THR	LEU	ASN	ASN	ASN	VAL	GL								



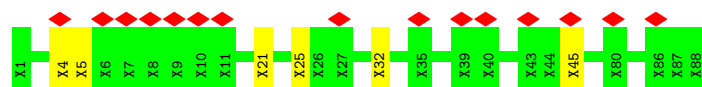


• Molecule 14: FAP70

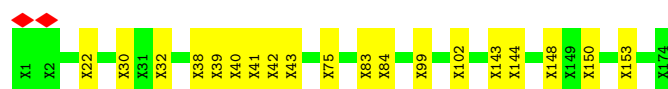
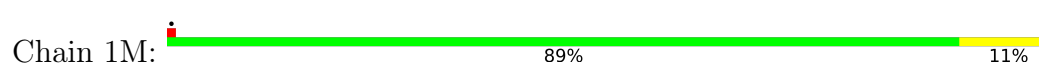




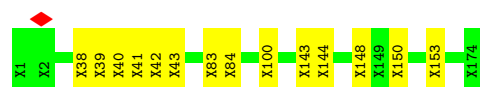
• Molecule 15: Unassigned protein-5



• Molecule 16: Unassigned protein-6

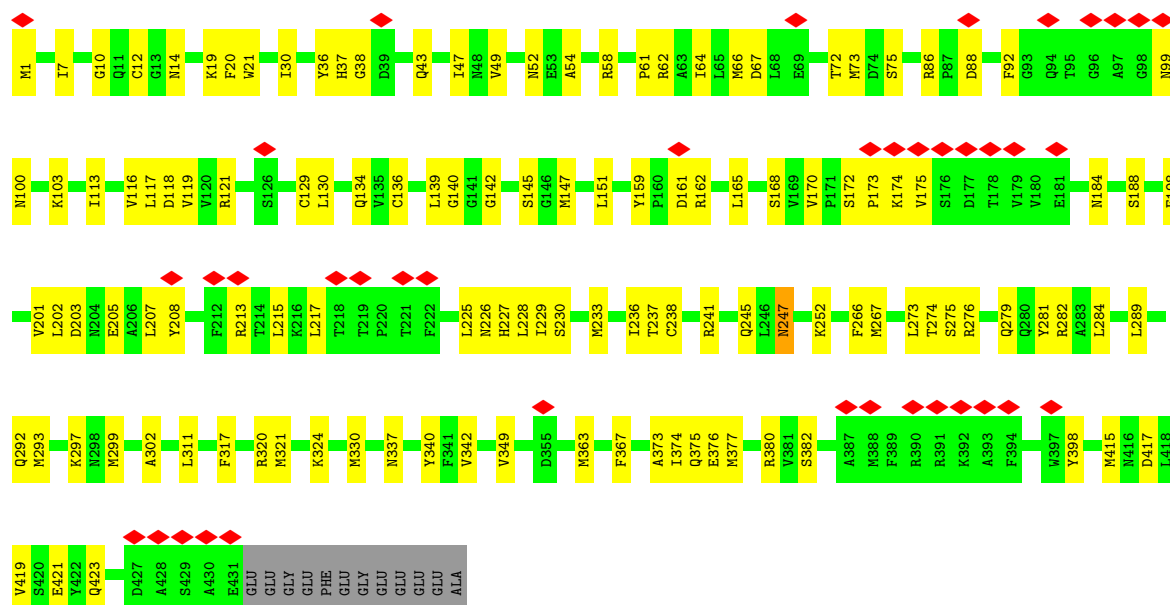


• Molecule 16: Unassigned protein-6

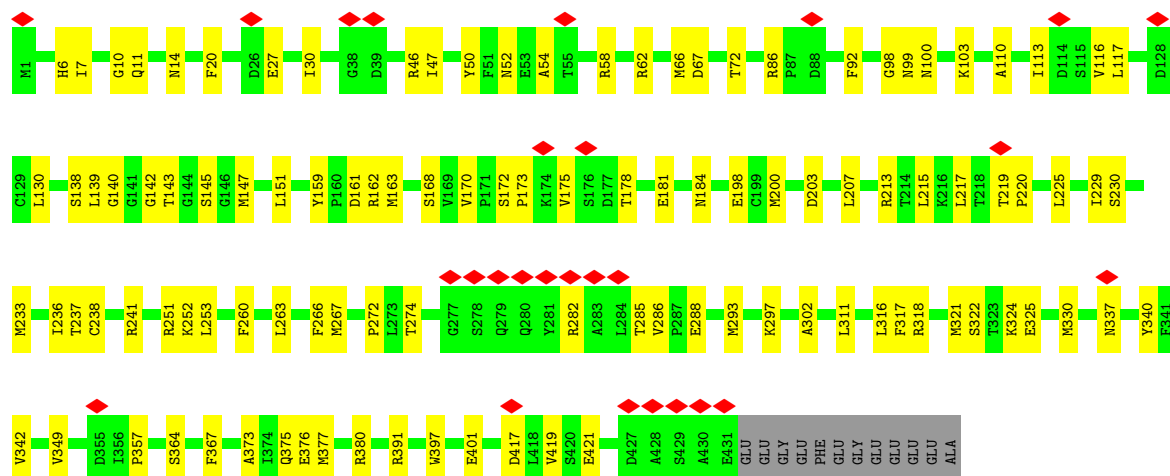
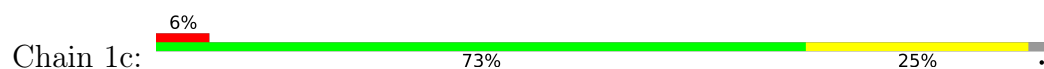


• Molecule 17: Tubulin beta

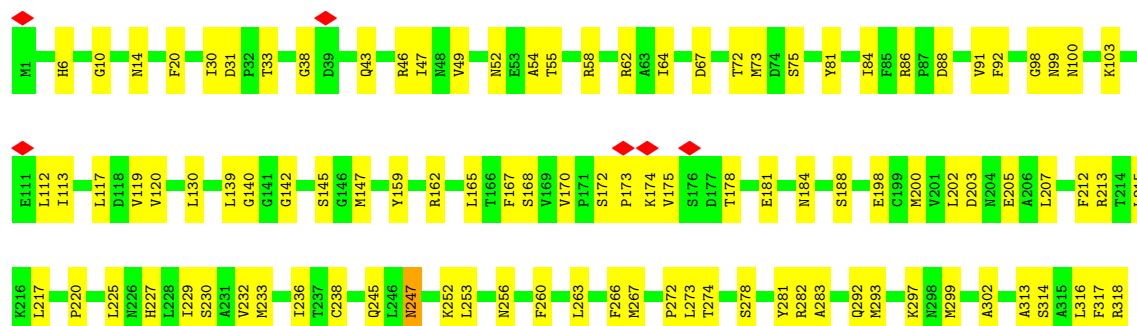




• Molecule 17: Tubulin beta

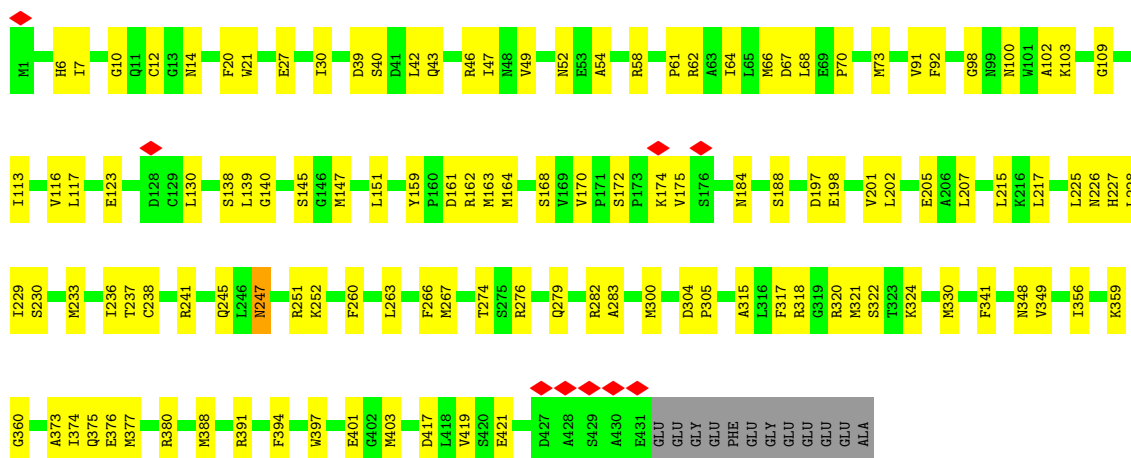


• Molecule 17: Tubulin beta

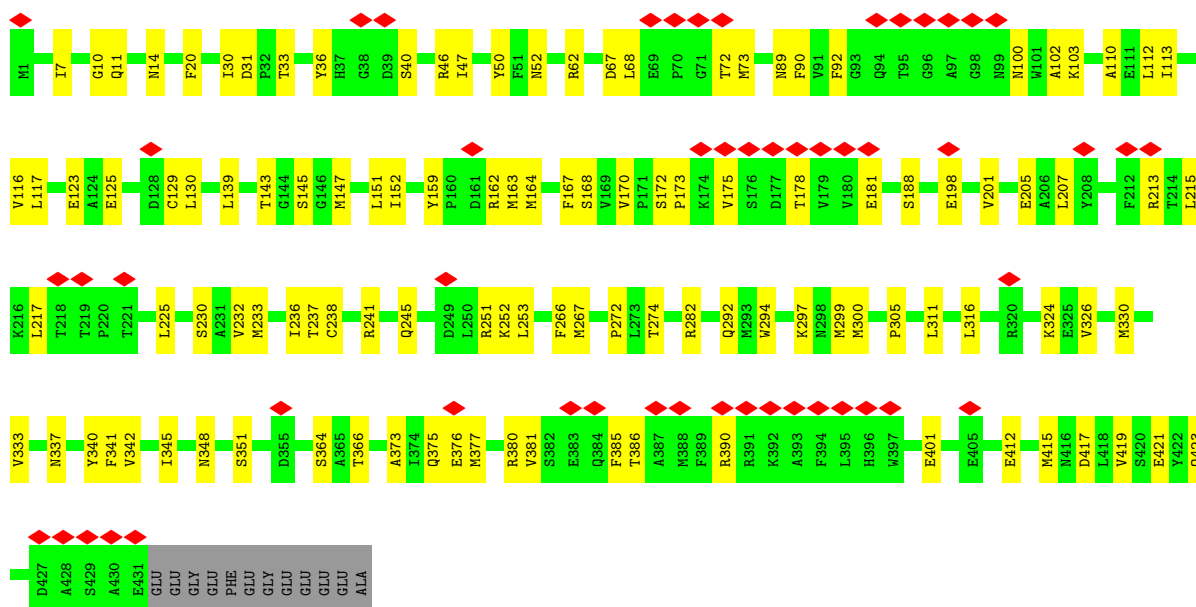
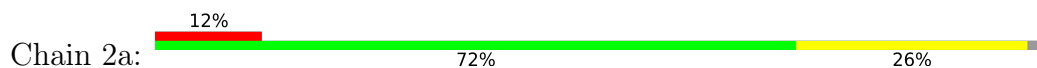




• Molecule 17: Tubulin beta

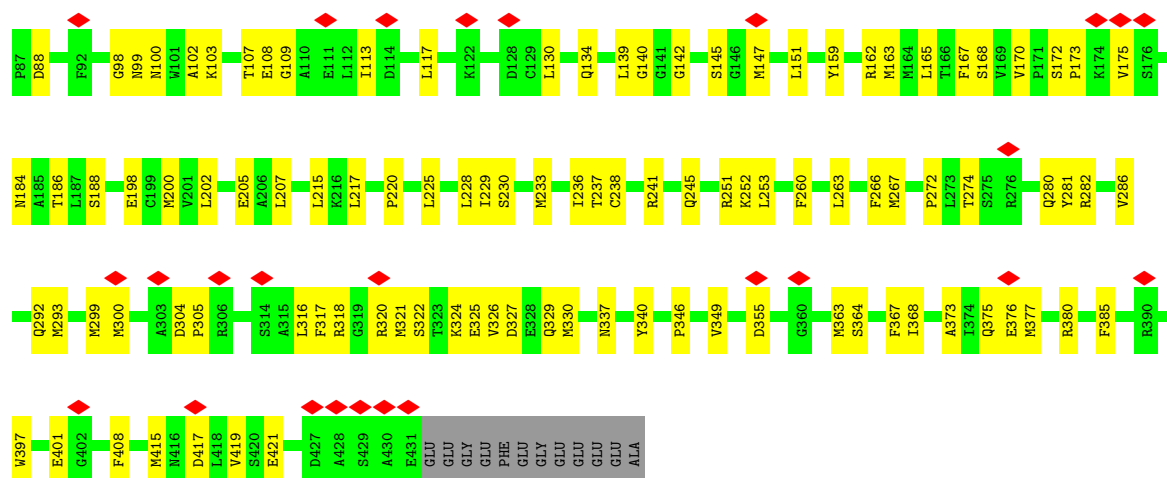


• Molecule 17: Tubulin beta

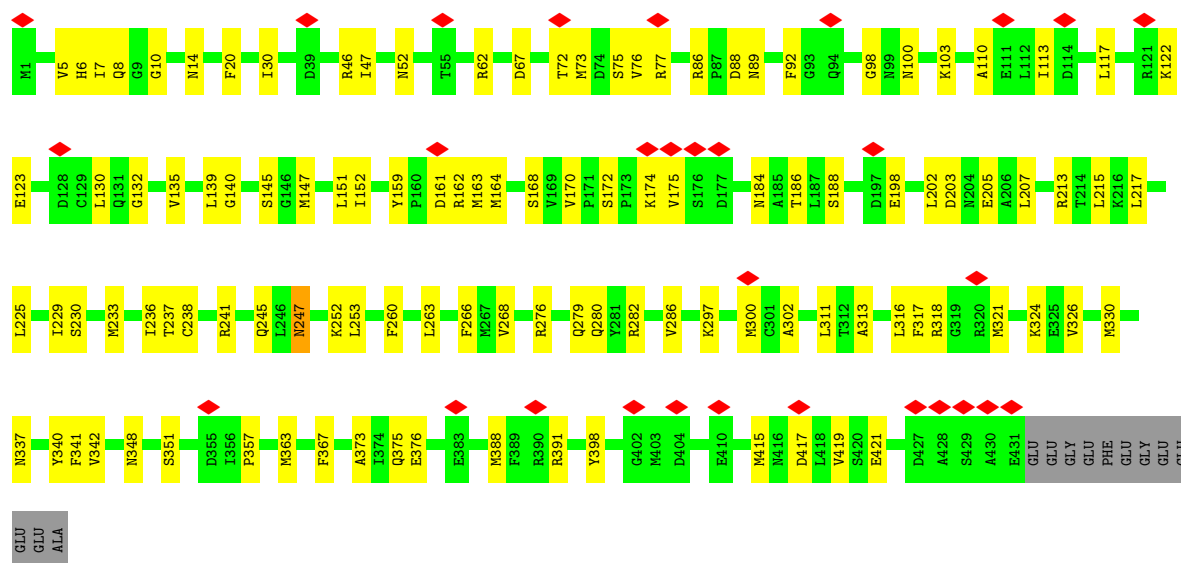
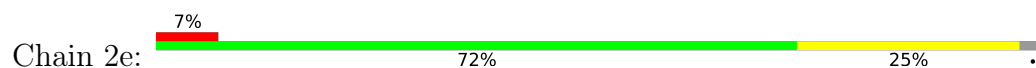


• Molecule 17: Tubulin beta

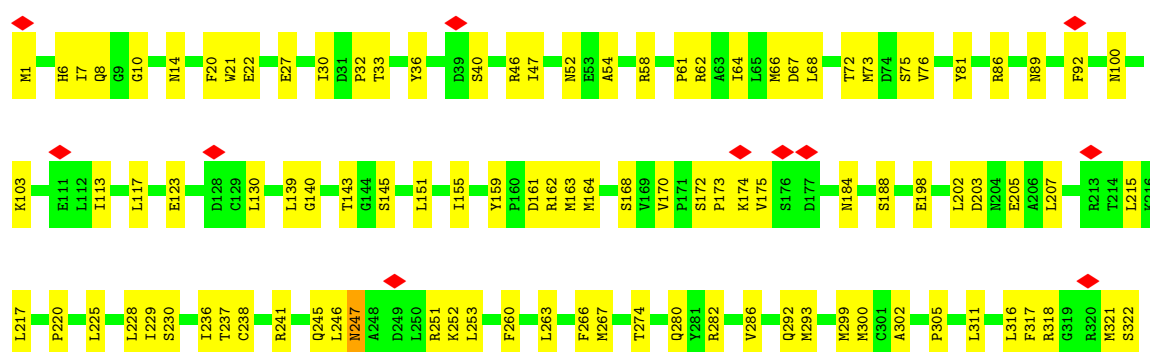


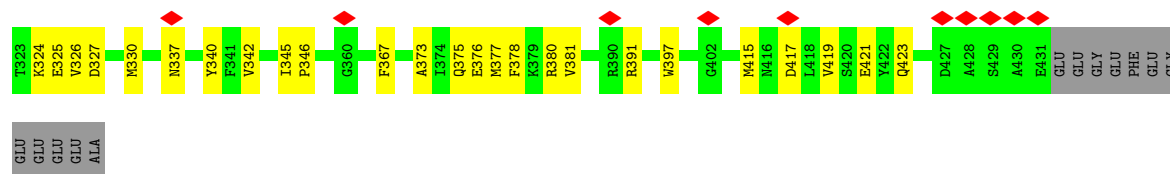


• Molecule 17: Tubulin beta

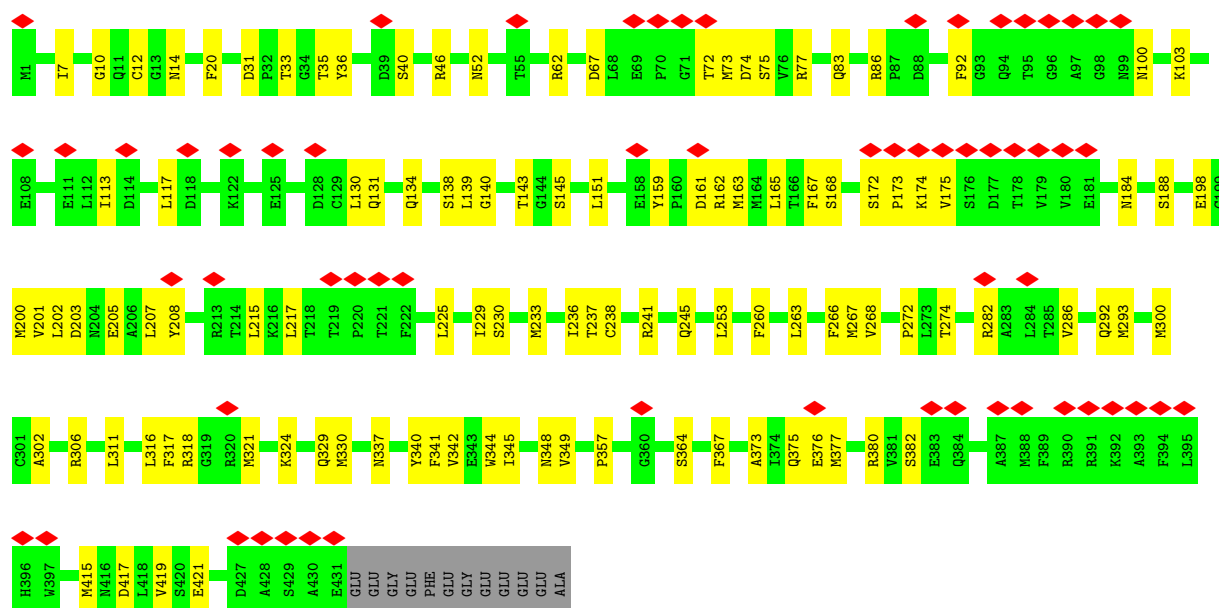
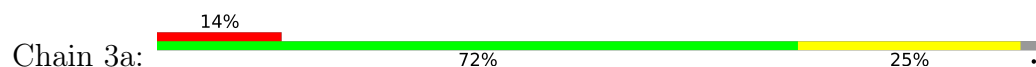


• Molecule 17: Tubulin beta

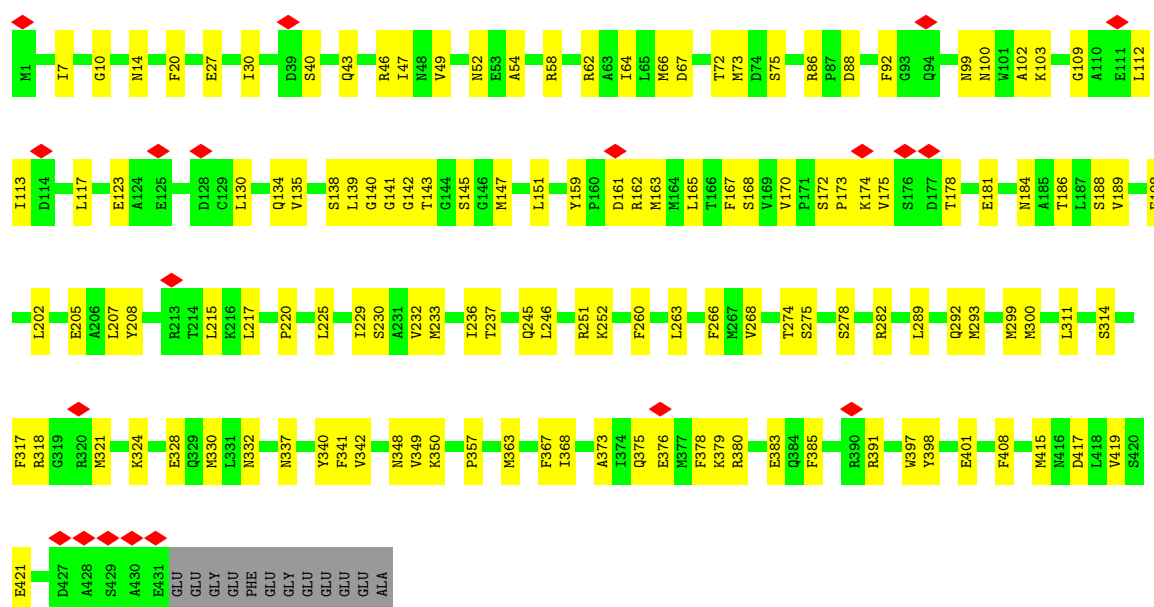




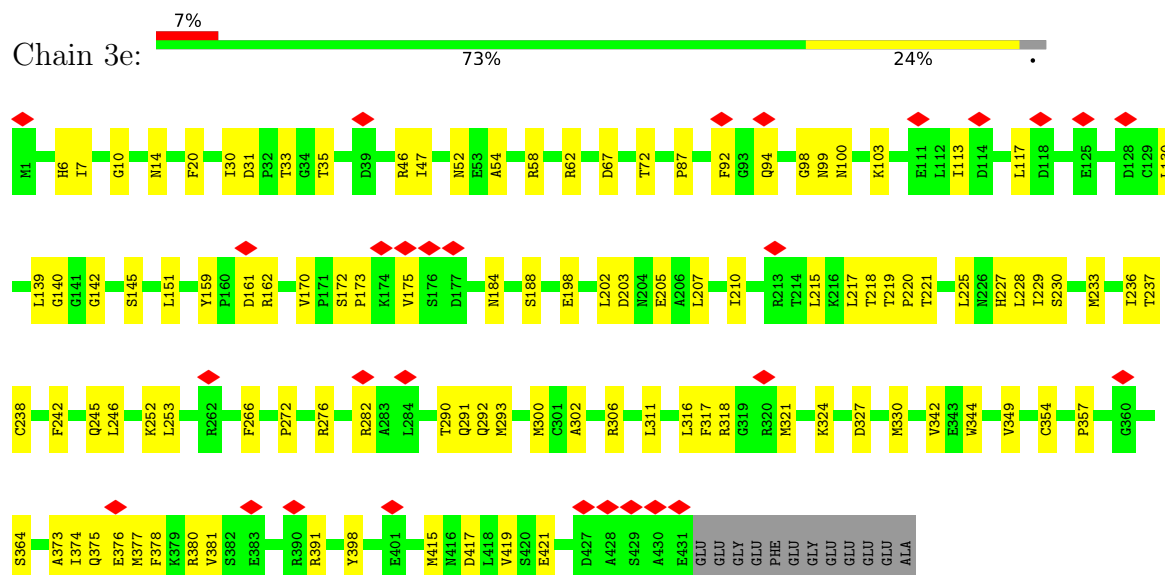
• Molecule 17: Tubulin beta



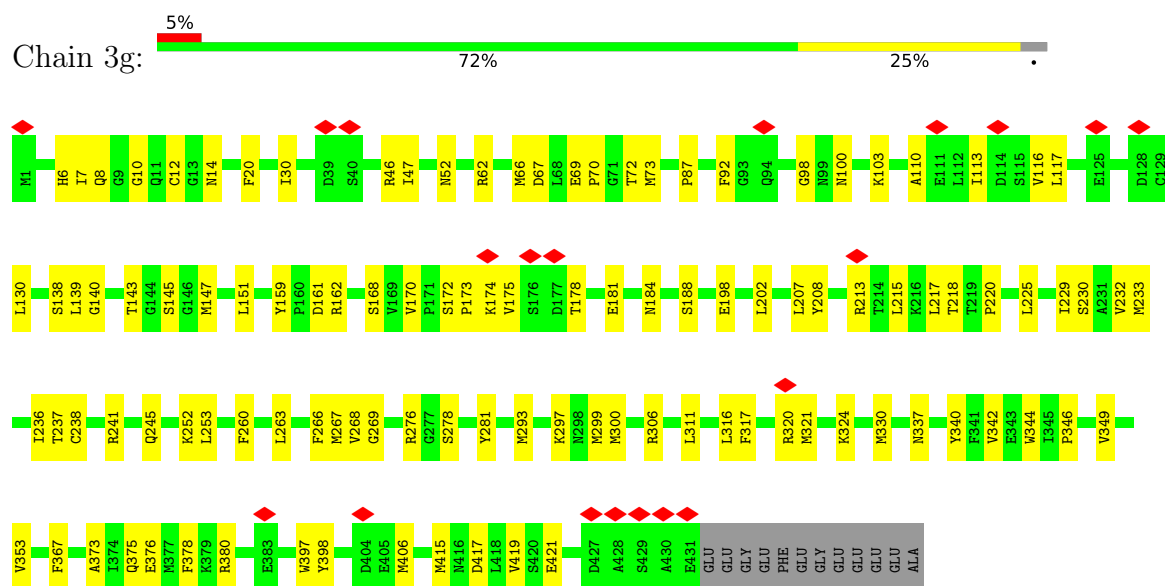
• Molecule 17: Tubulin beta



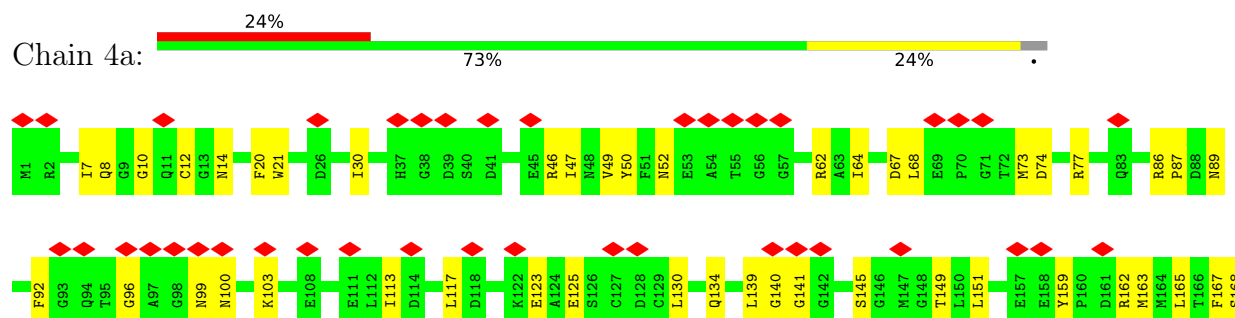
- Molecule 17: Tubulin beta

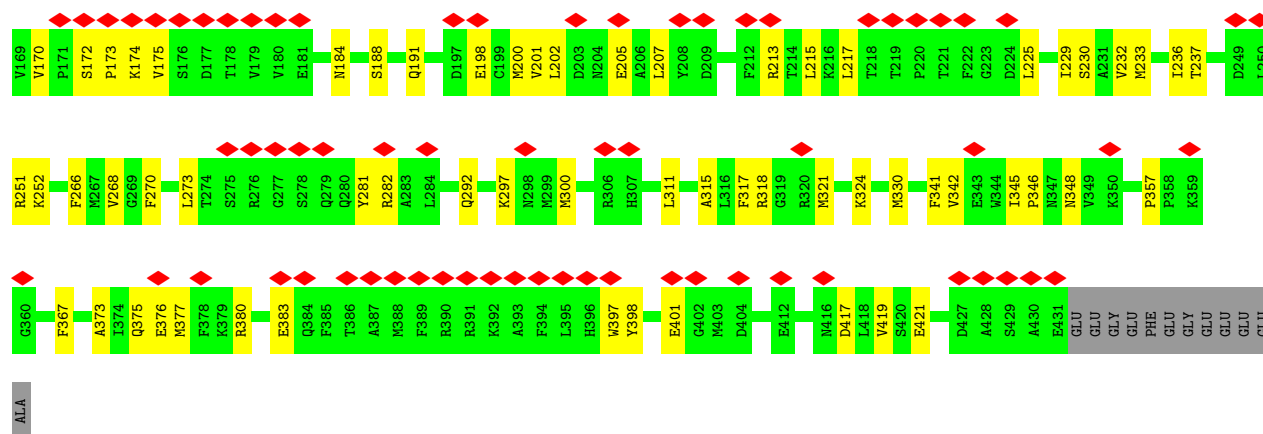


- Molecule 17: Tubulin beta

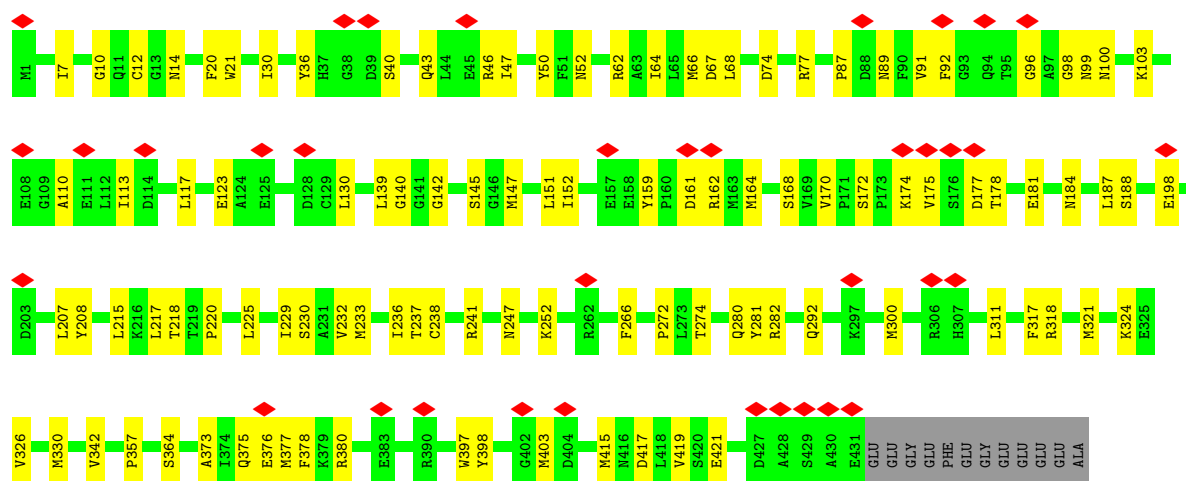
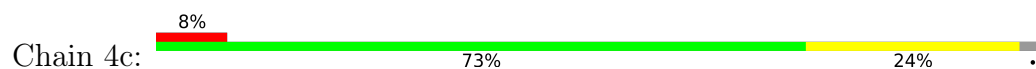


- Molecule 17: Tubulin beta

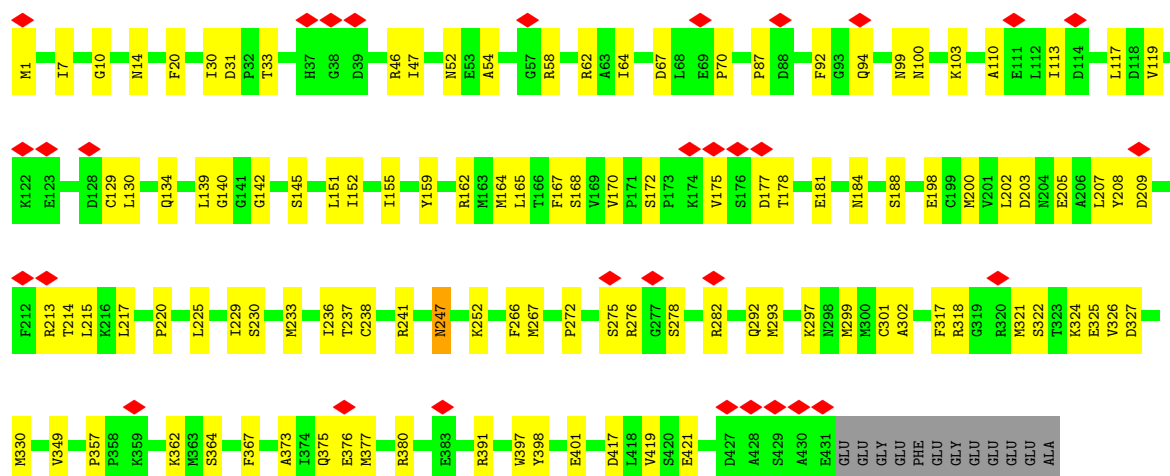
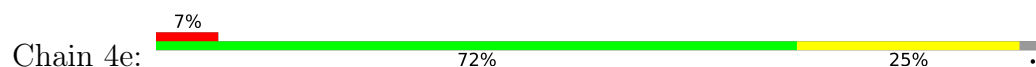




• Molecule 17: Tubulin beta



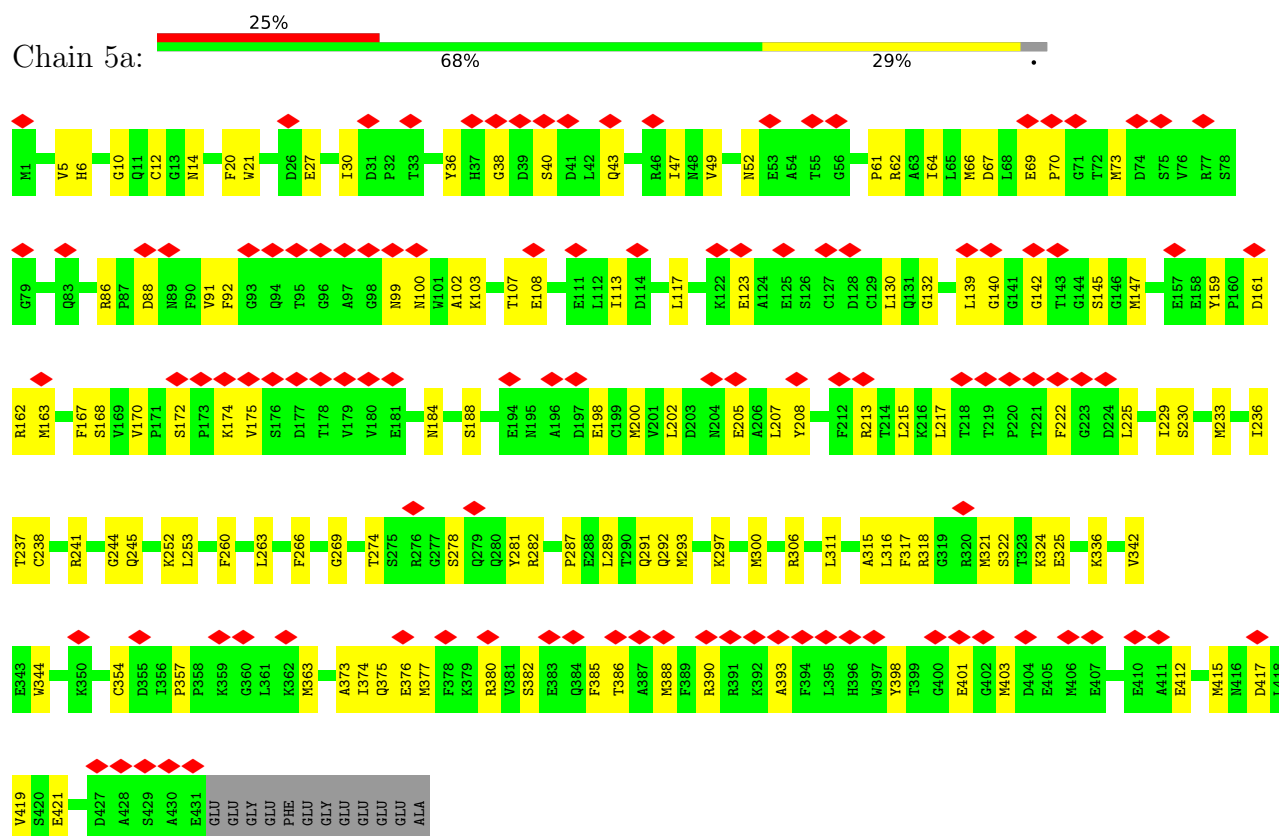
• Molecule 17: Tubulin beta



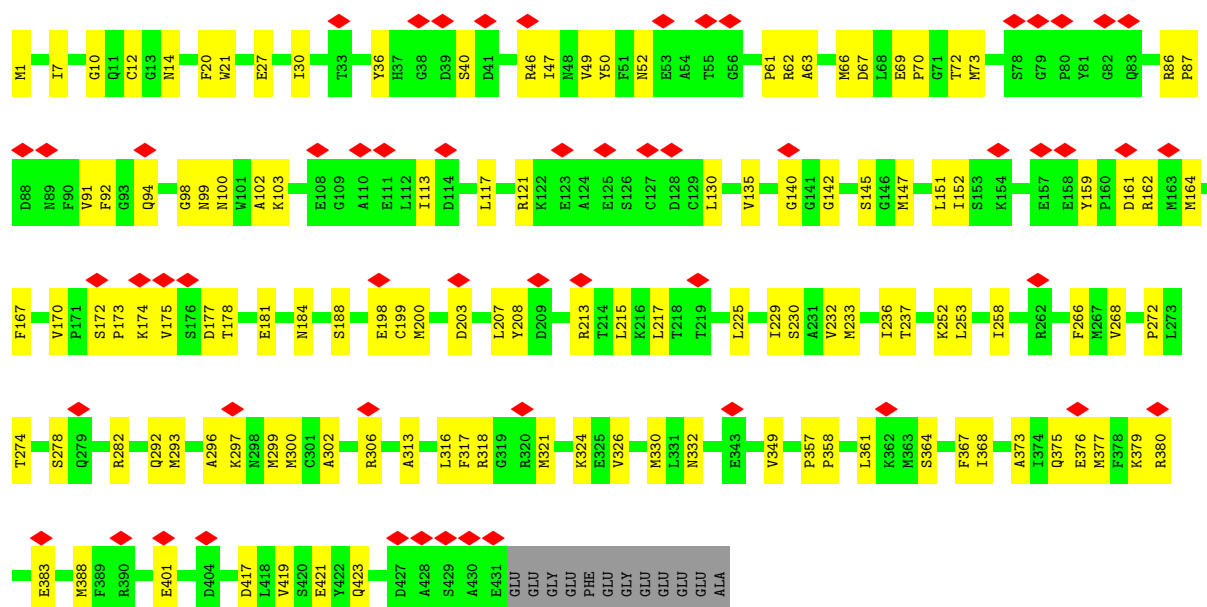
- Molecule 17: Tubulin beta



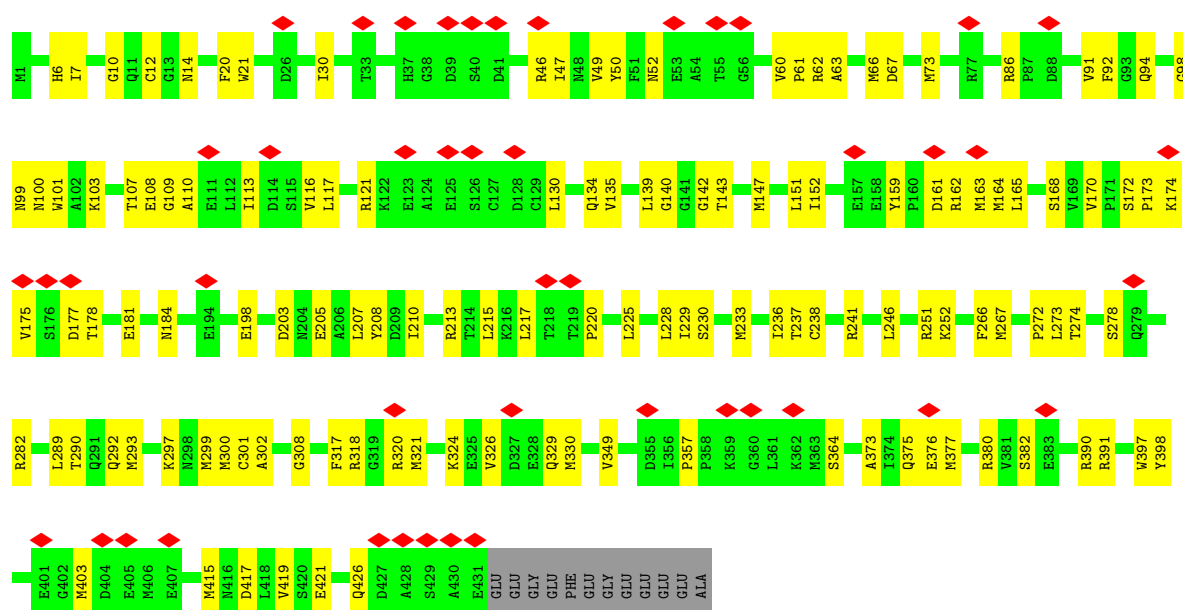
- Molecule 17: Tubulin beta



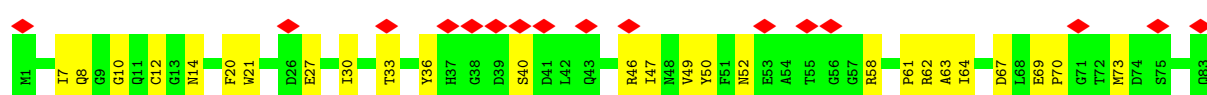
- Molecule 17: Tubulin beta

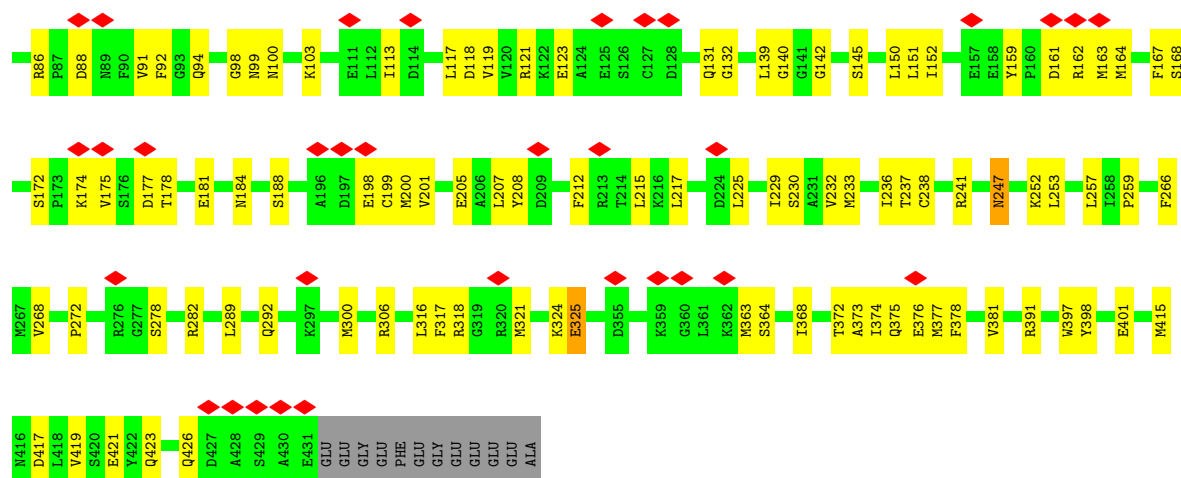


• Molecule 17: Tubulin beta

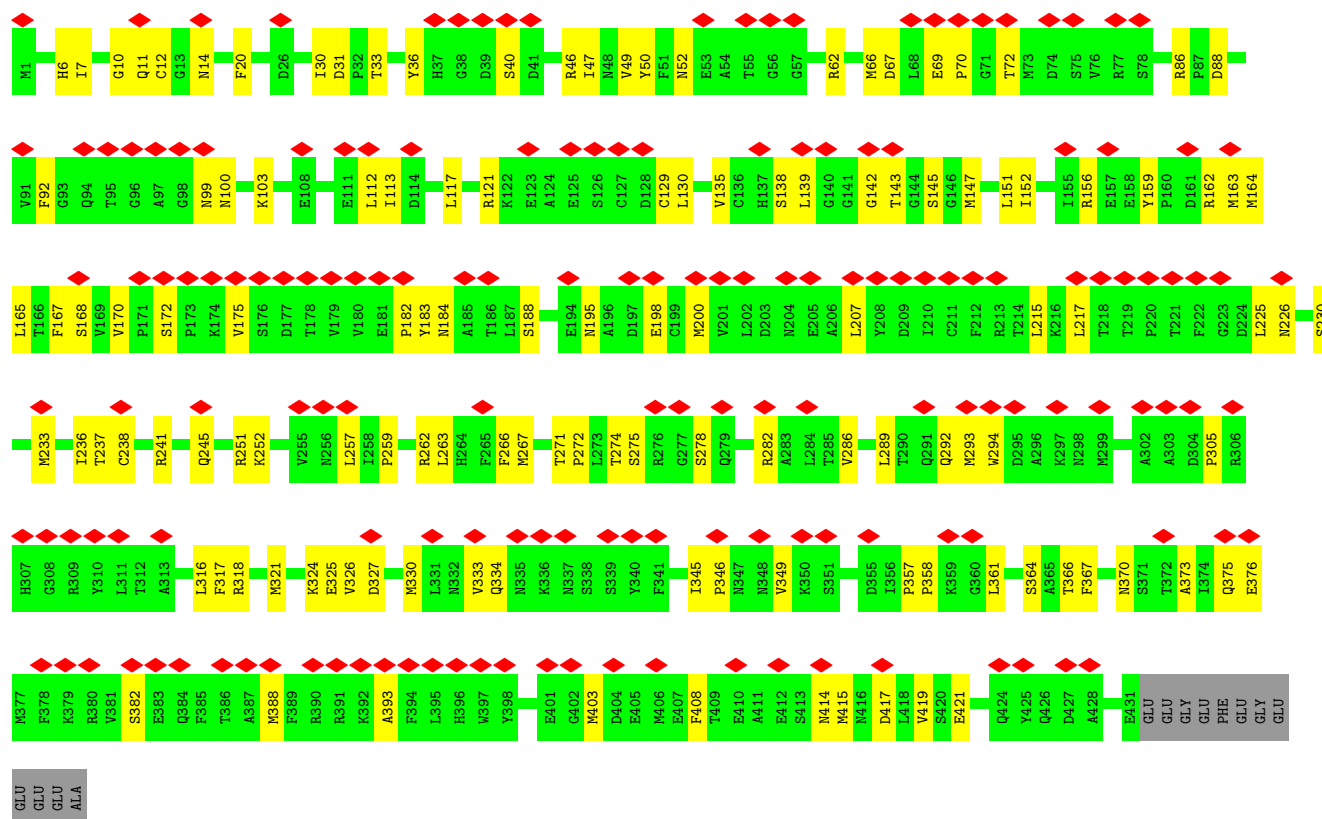
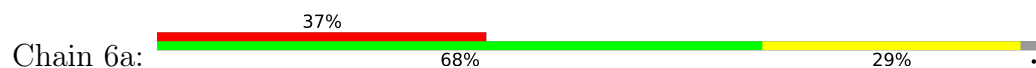


• Molecule 17: Tubulin beta

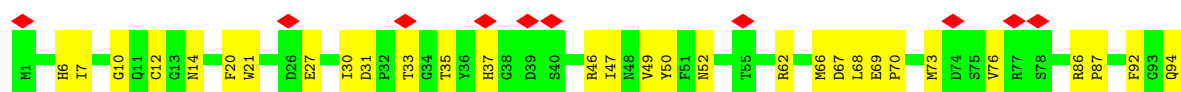


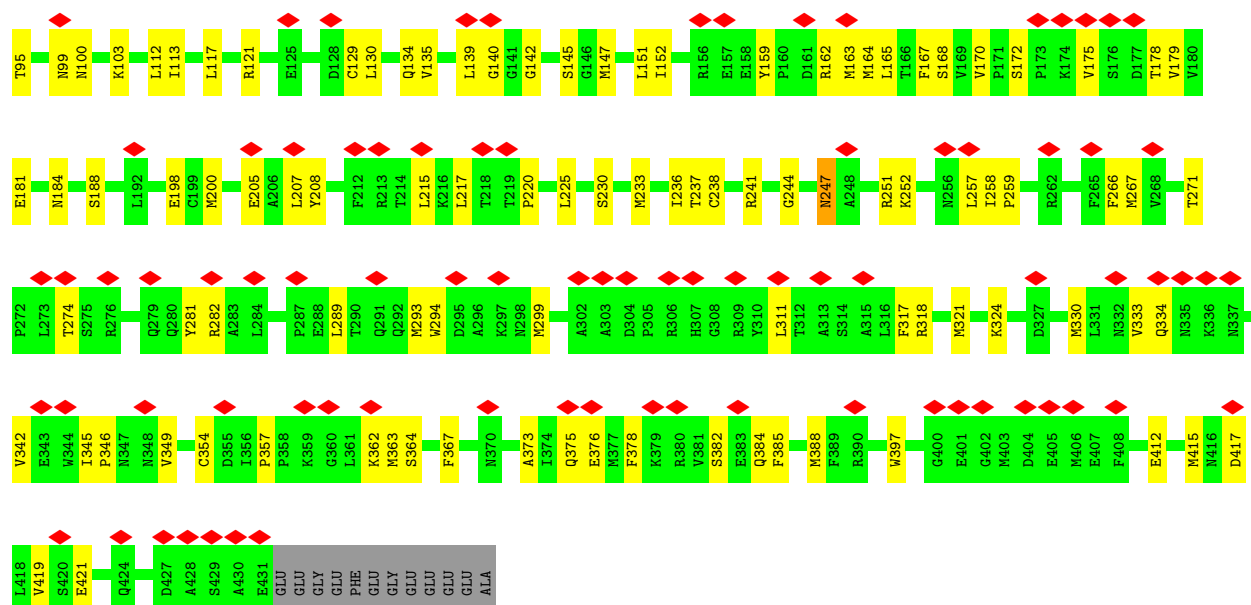


• Molecule 17: Tubulin beta

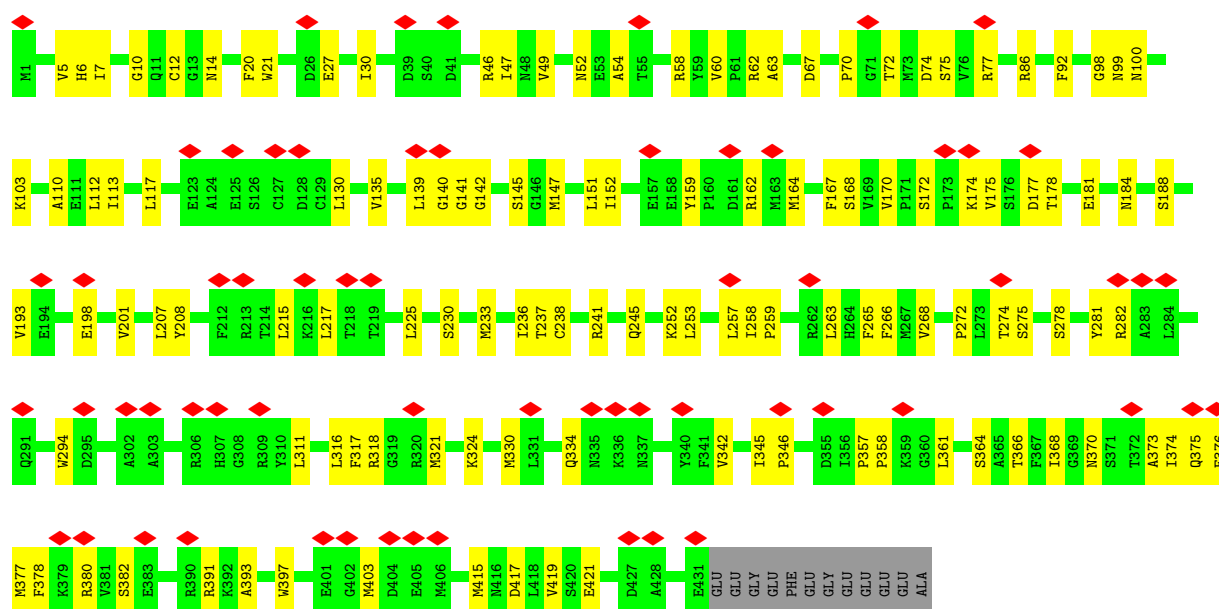


• Molecule 17: Tubulin beta

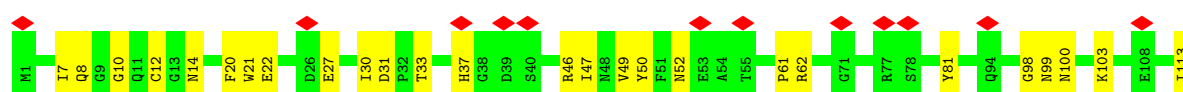


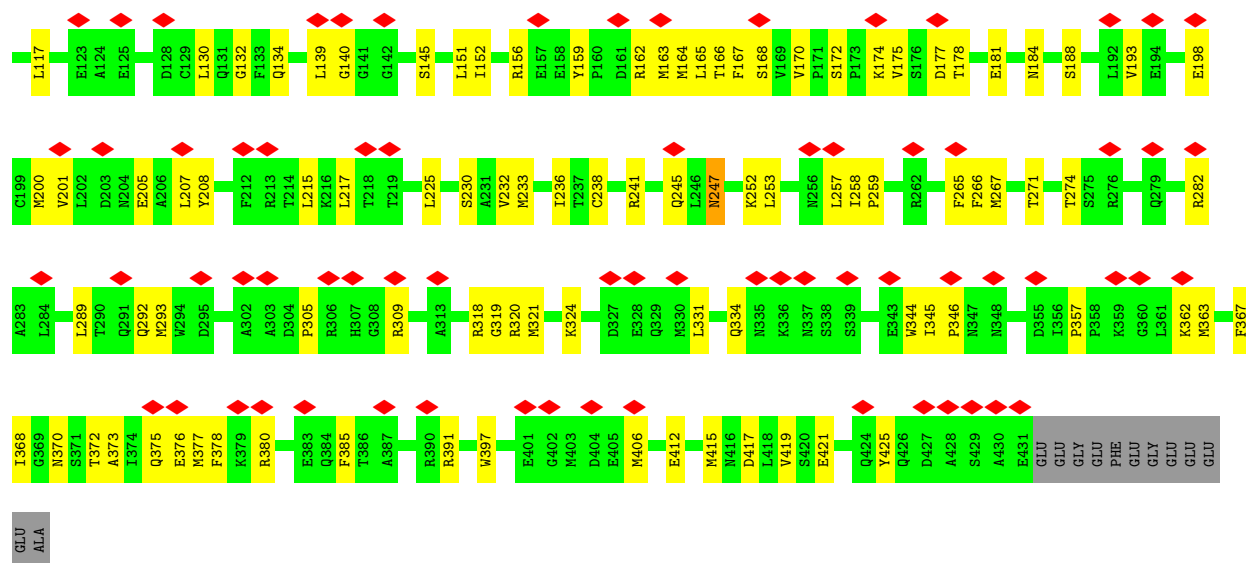


• Molecule 17: Tubulin beta

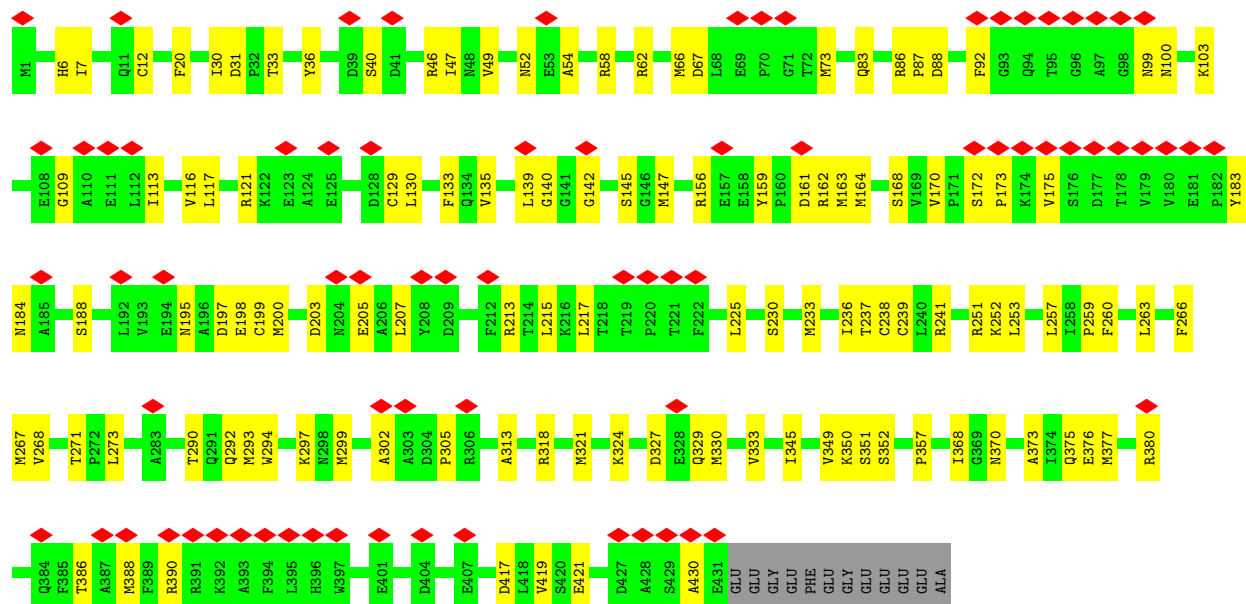


• Molecule 17: Tubulin beta

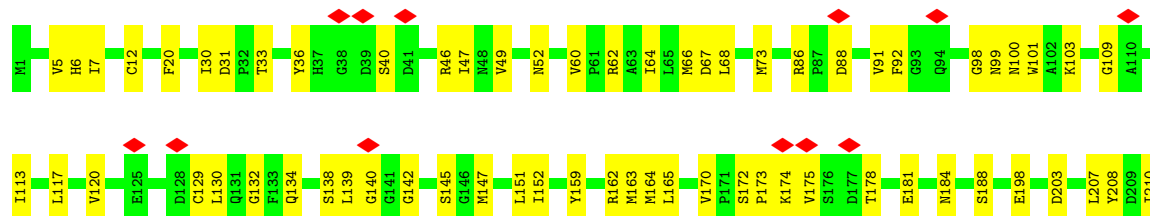


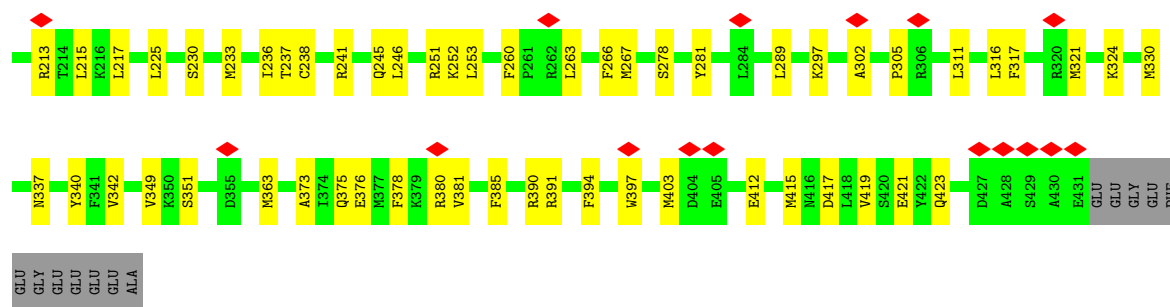


• Molecule 17: Tubulin beta

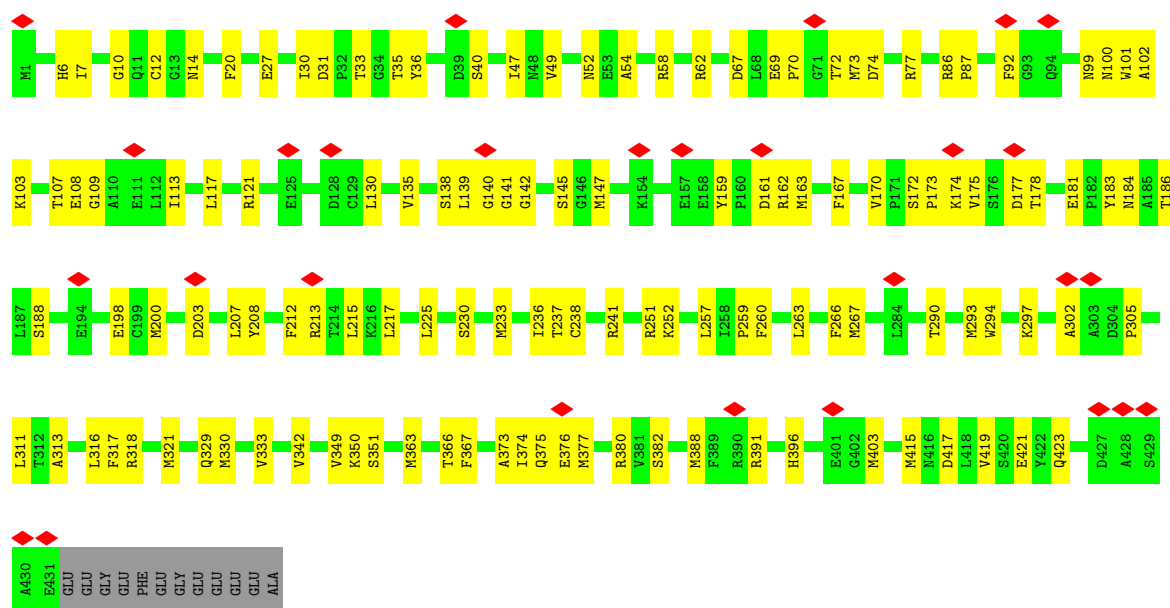


• Molecule 17: Tubulin beta

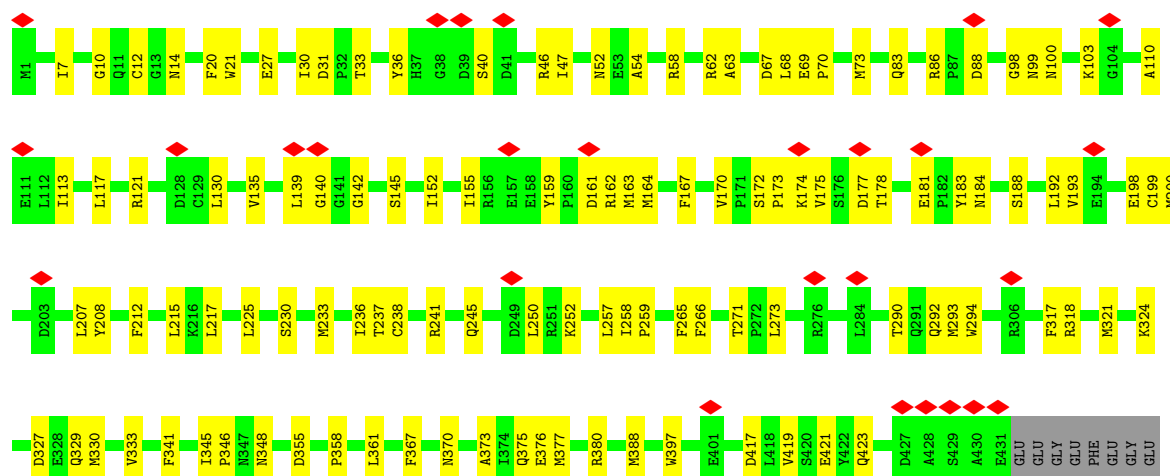




• Molecule 17: Tubulin beta

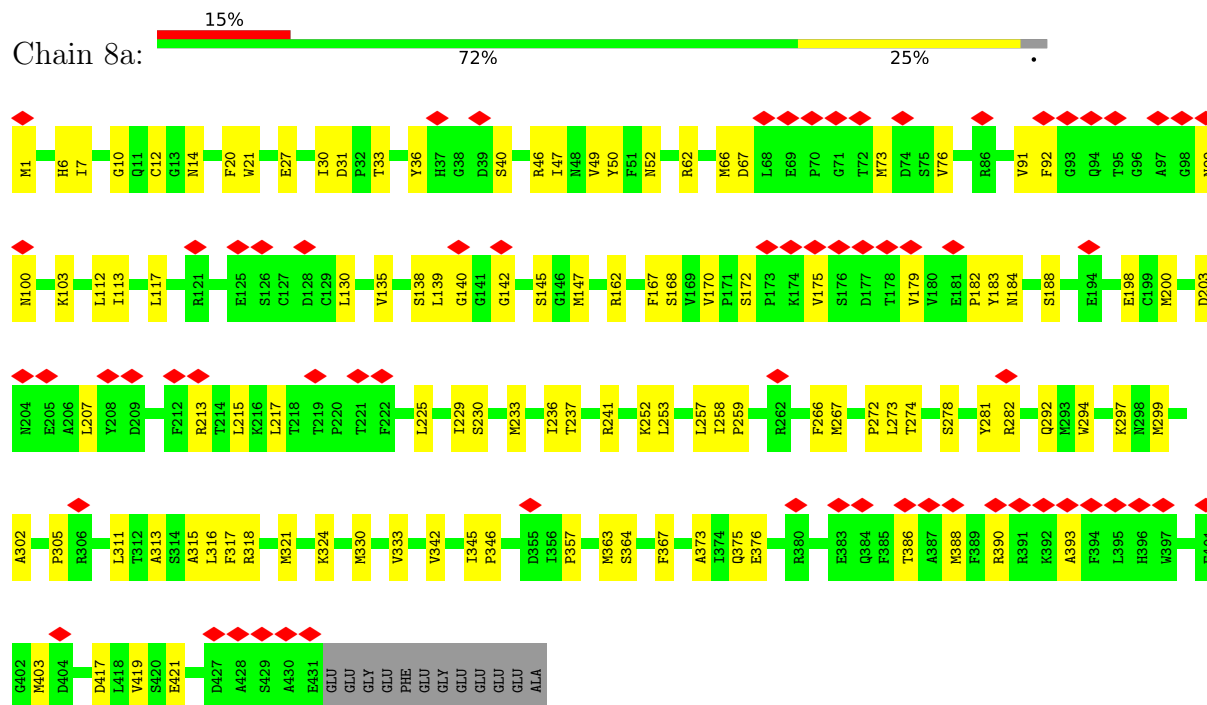


• Molecule 17: Tubulin beta

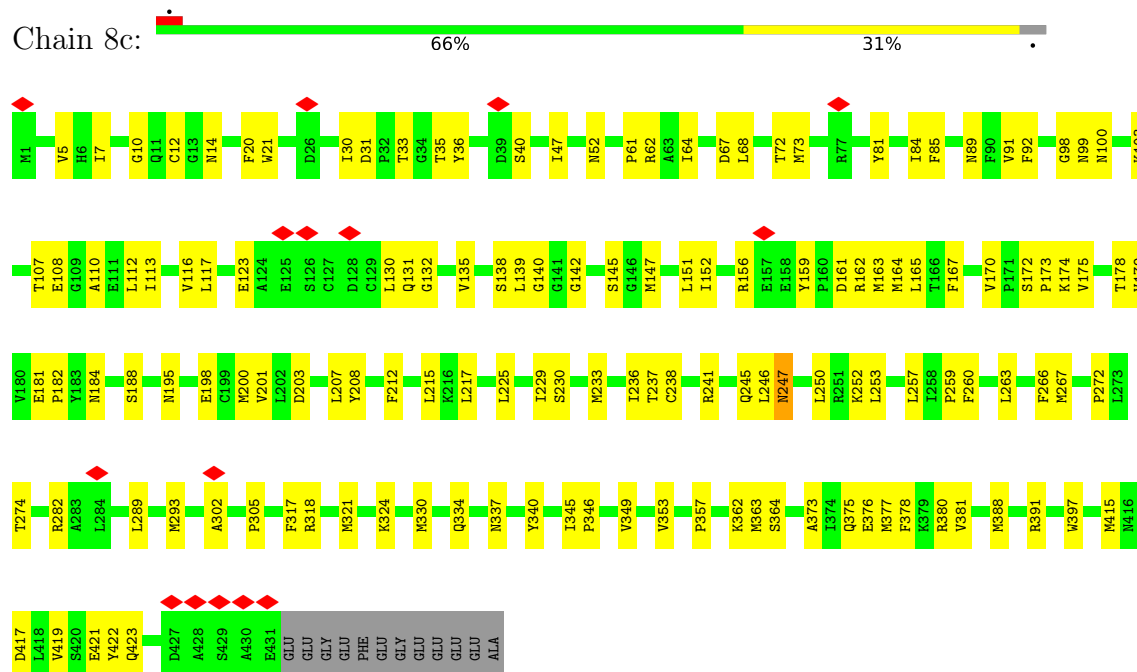


GLU
GLU
GLU
ALA

• Molecule 17: Tubulin beta

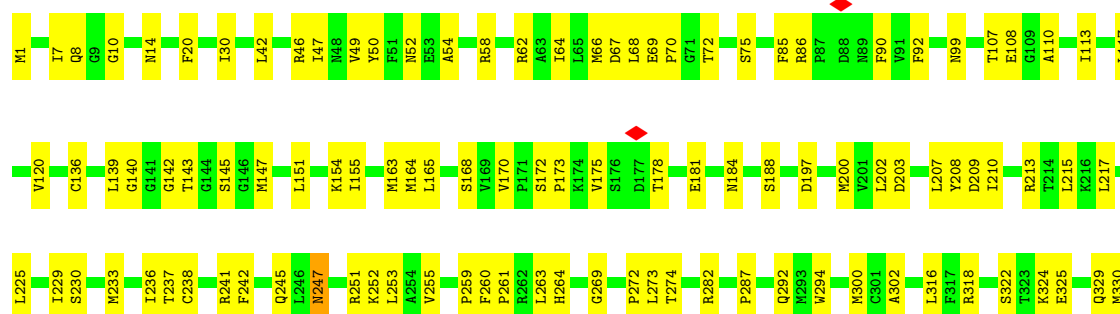


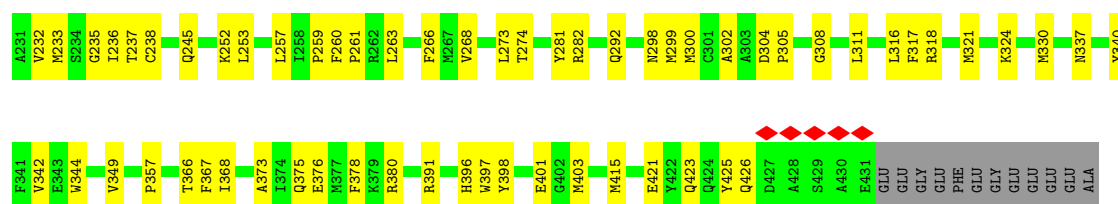
• Molecule 17: Tubulin beta



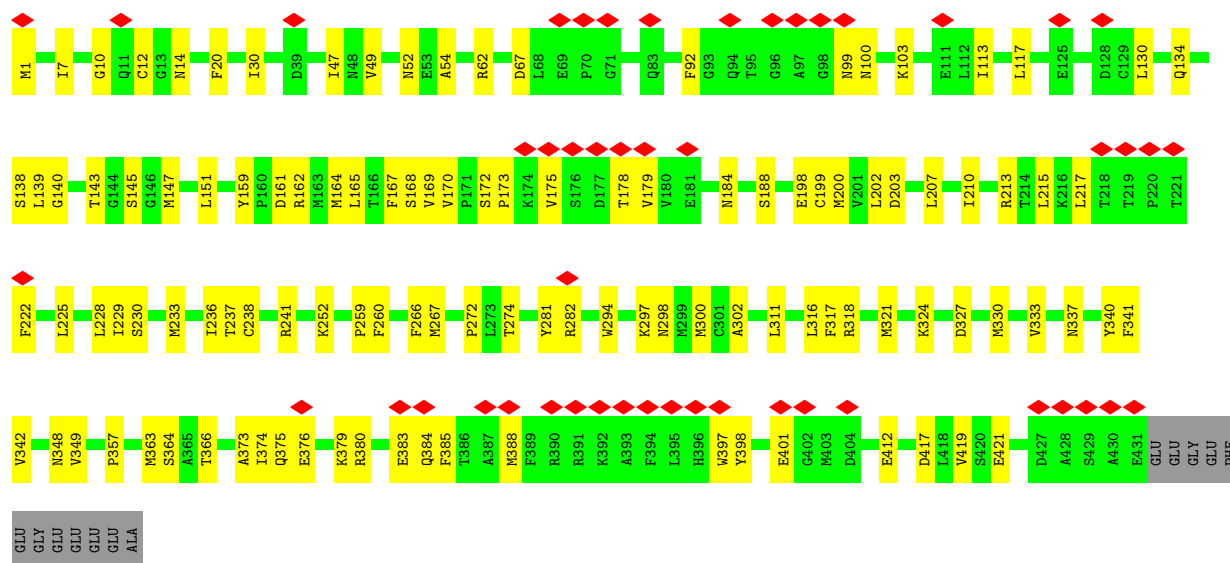
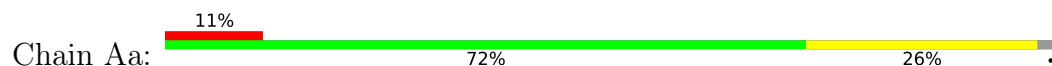
• Molecule 17: Tubulin beta



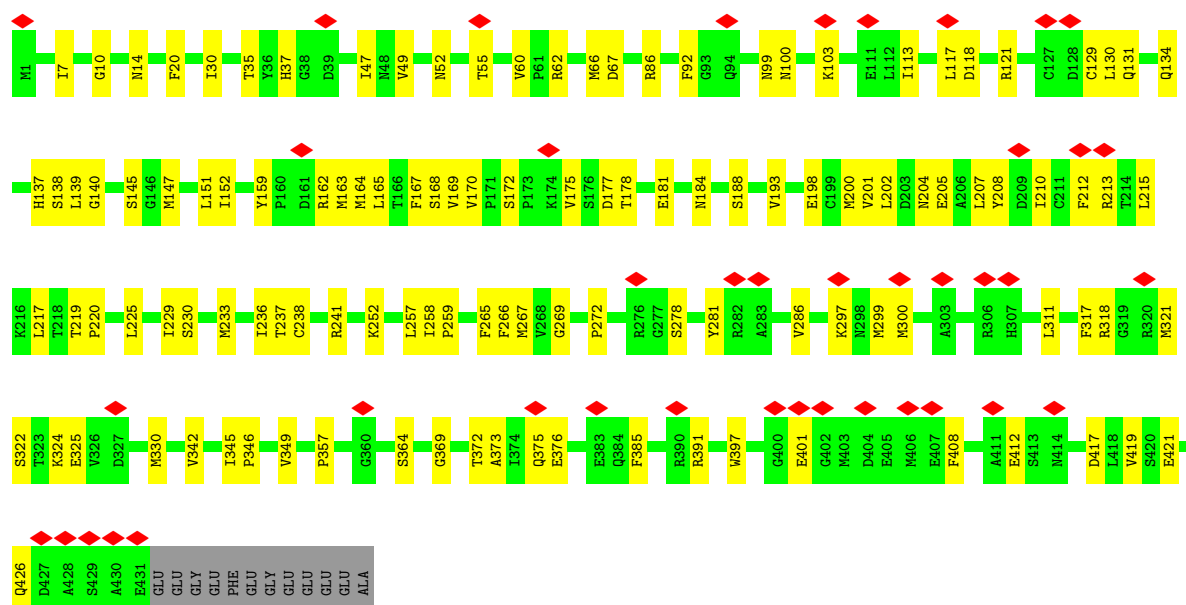




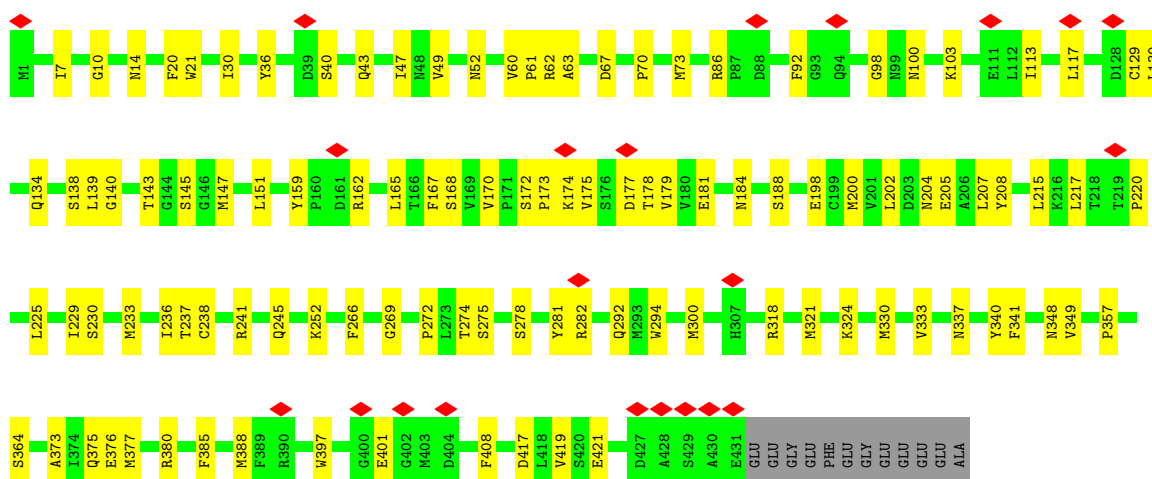
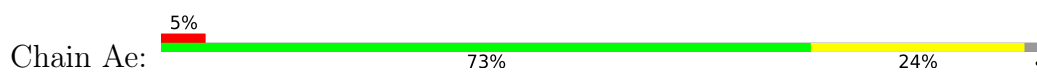
• Molecule 17: Tubulin beta



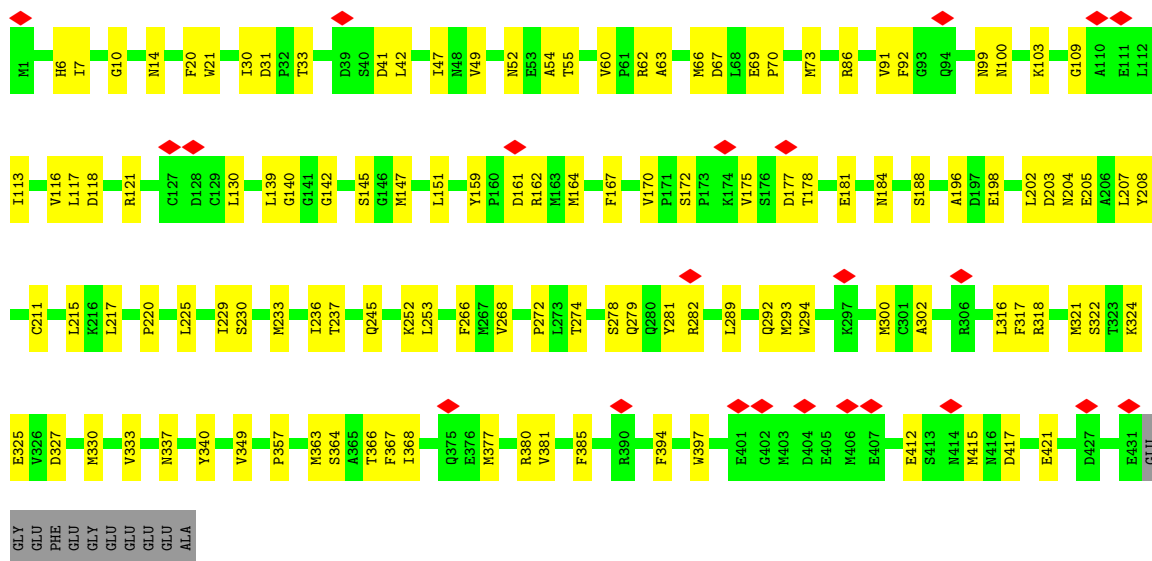
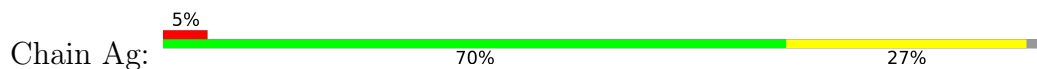
• Molecule 17: Tubulin beta



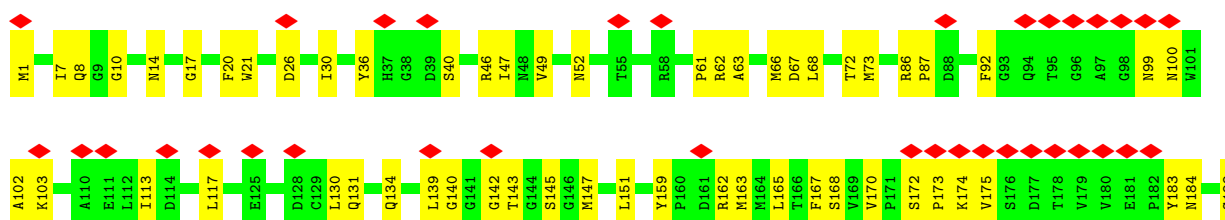
• Molecule 17: Tubulin beta

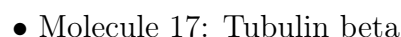


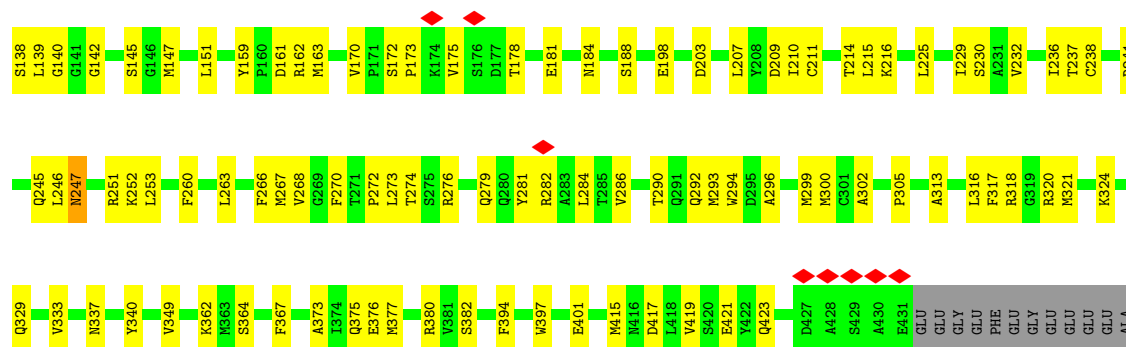
• Molecule 17: Tubulin beta



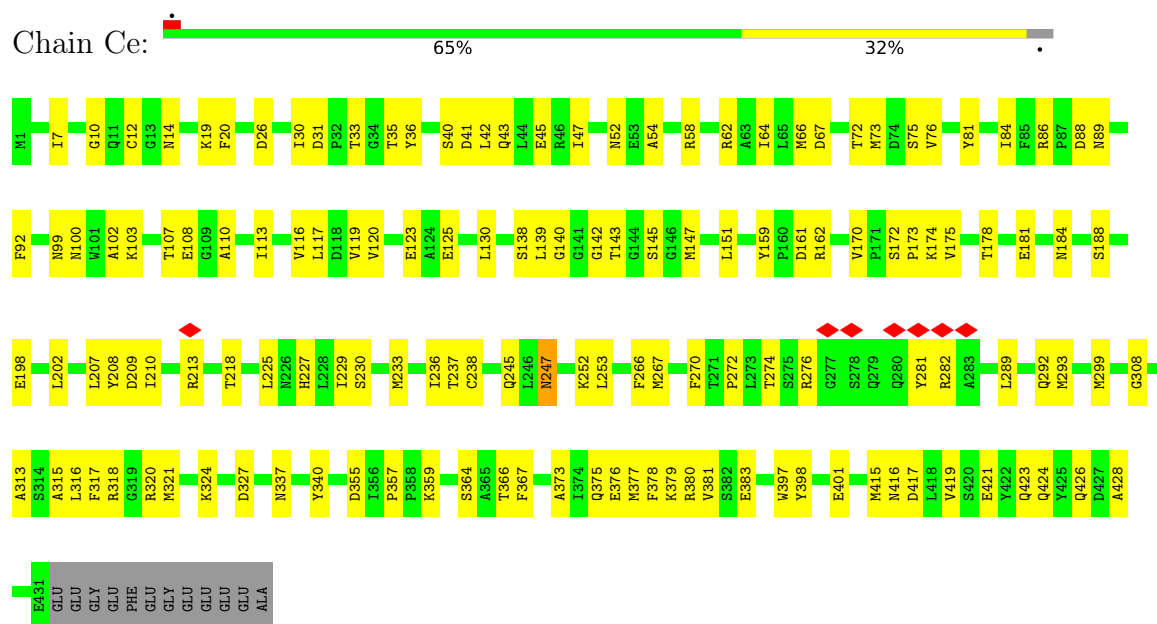
• Molecule 17: Tubulin beta



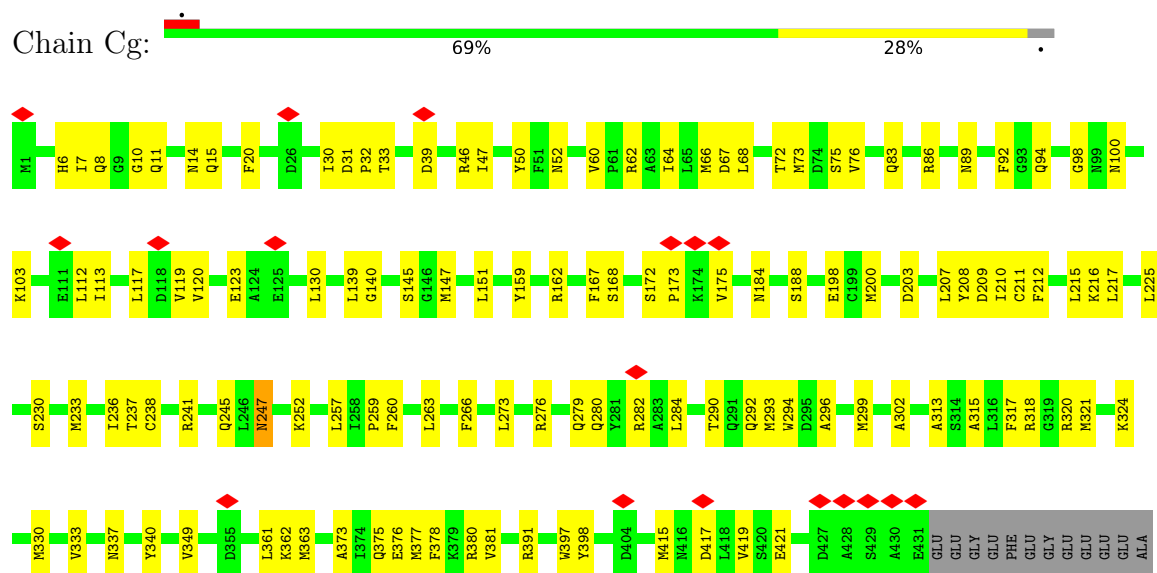




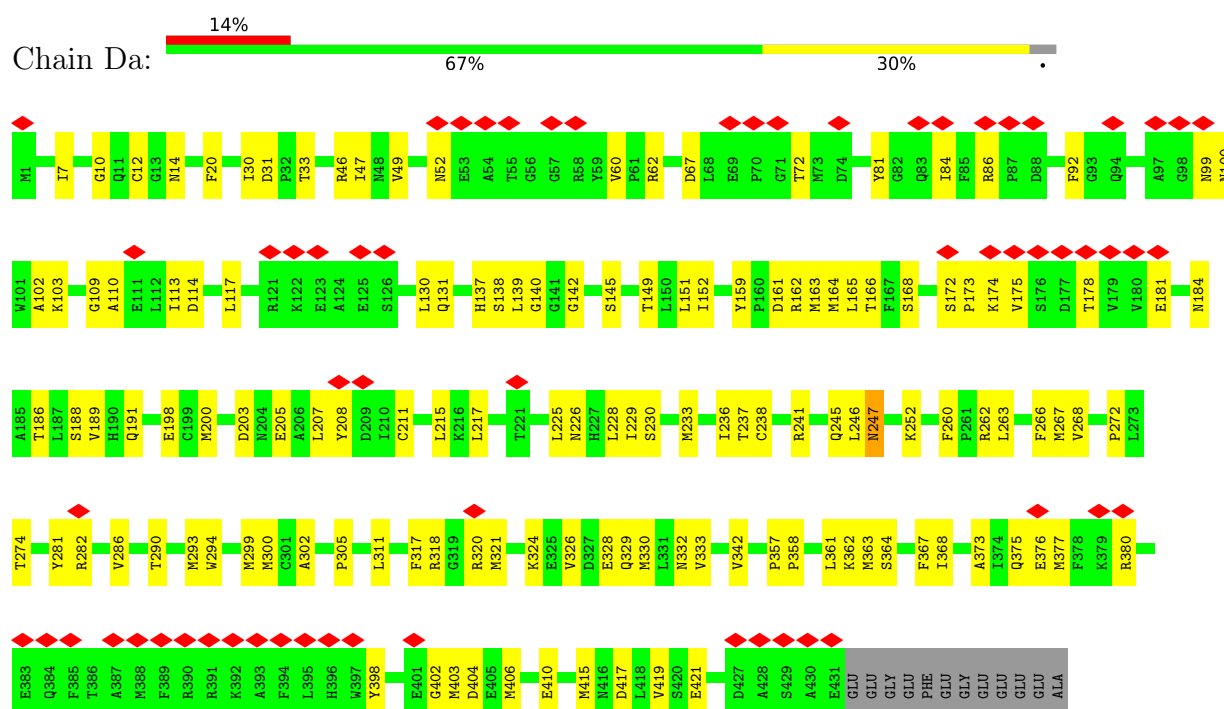
• Molecule 17: Tubulin beta



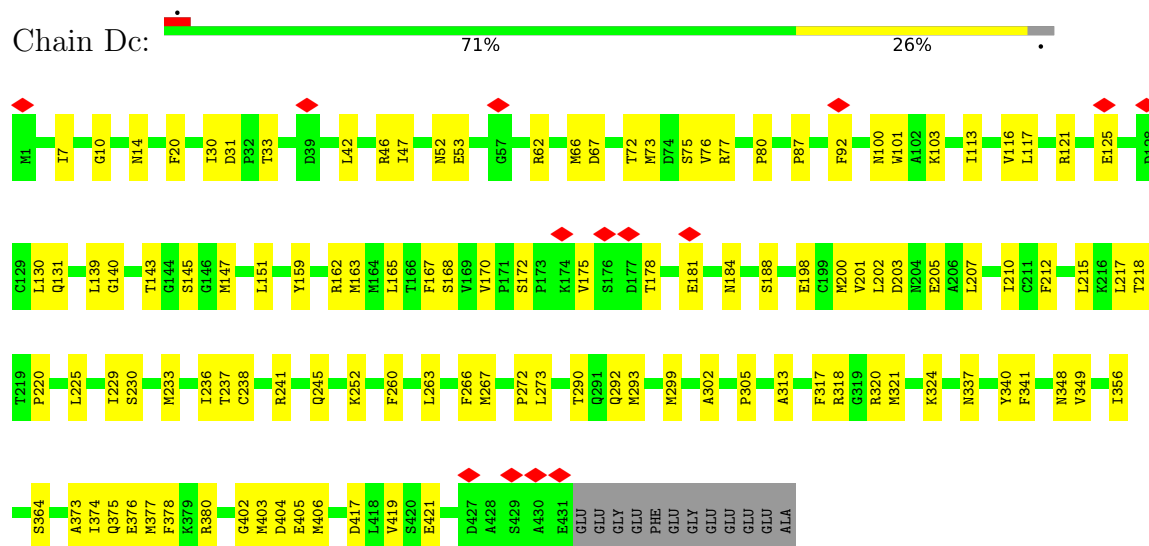
• Molecule 17: Tubulin beta



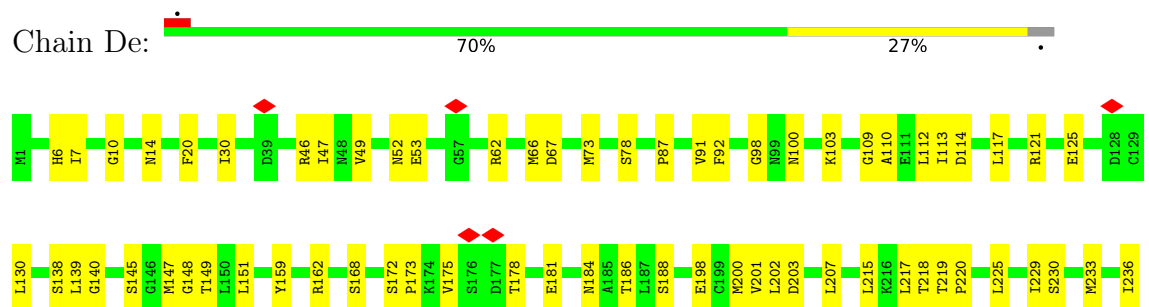
• Molecule 17: Tubulin beta

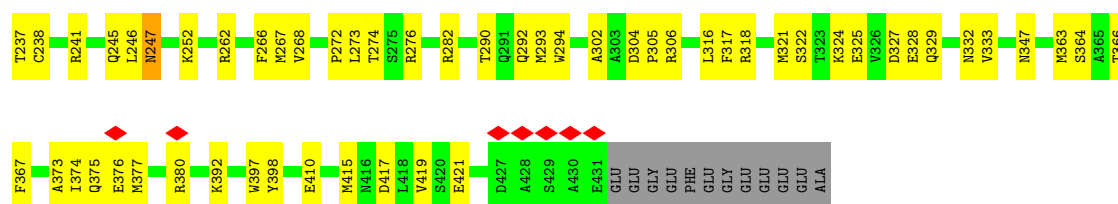


• Molecule 17: Tubulin beta

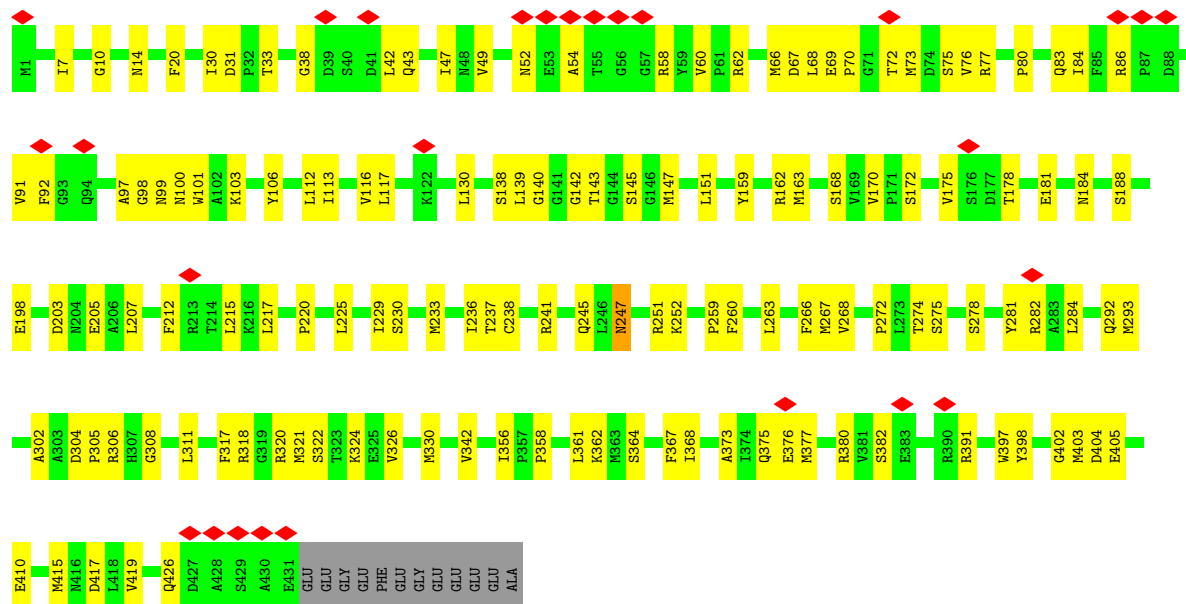


• Molecule 17: Tubulin beta

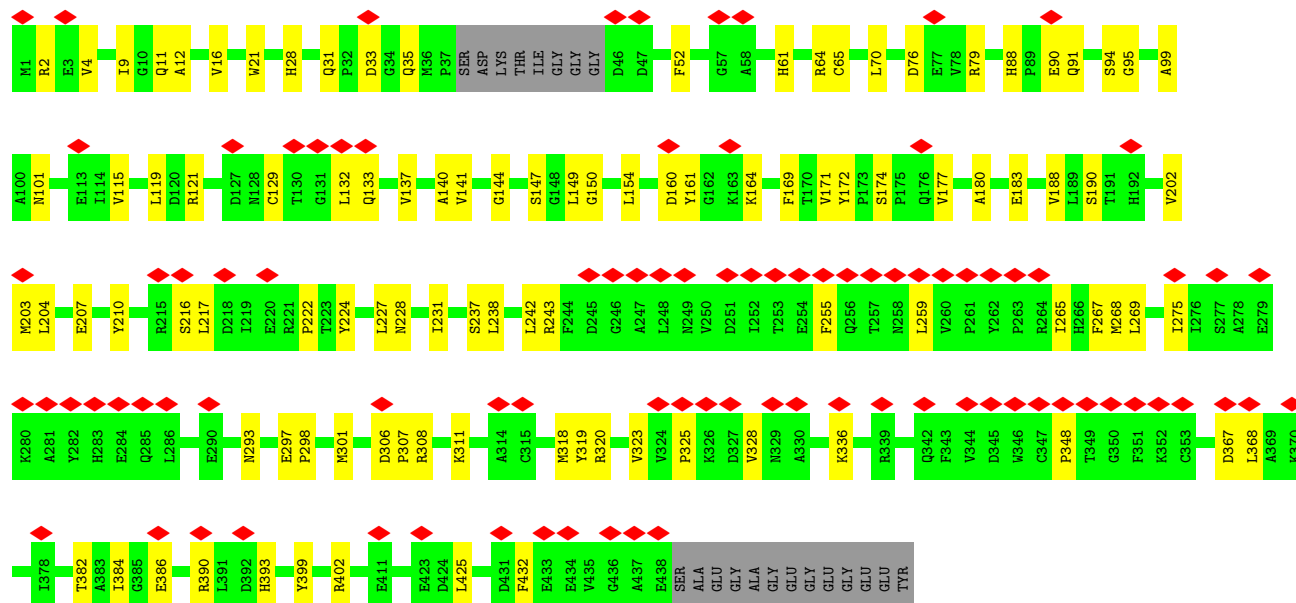
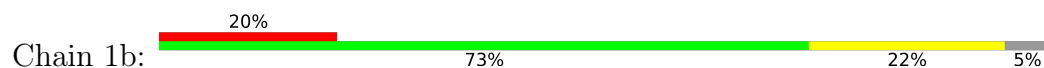




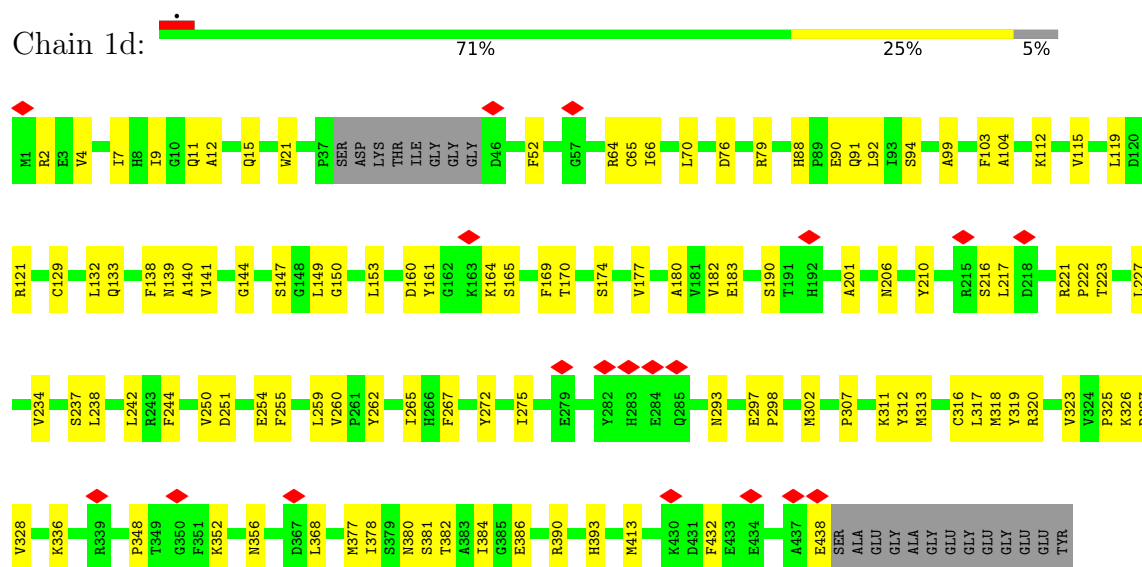
• Molecule 17: Tubulin beta



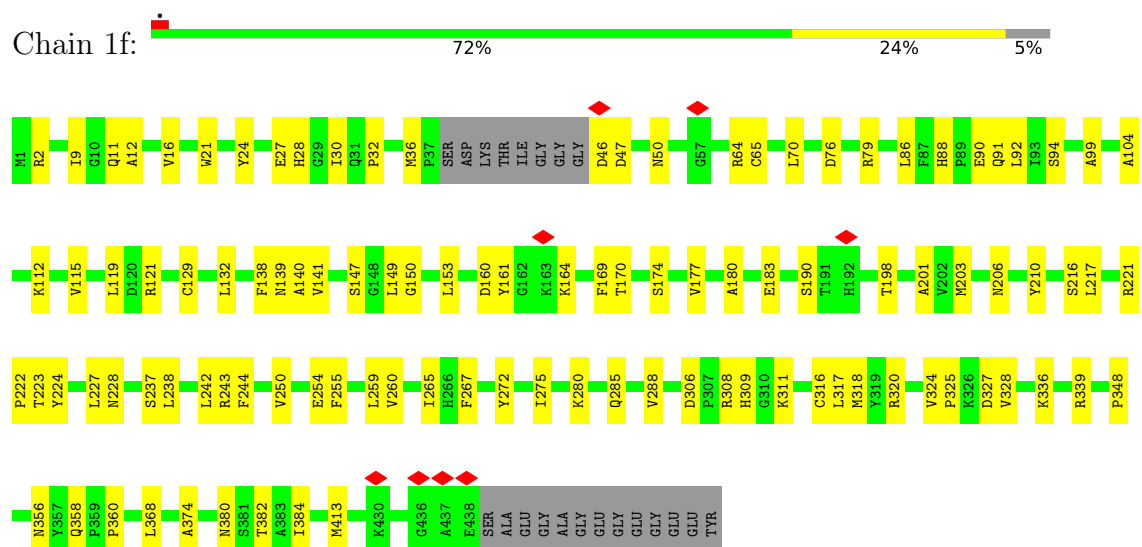
• Molecule 18: Tubulin alpha



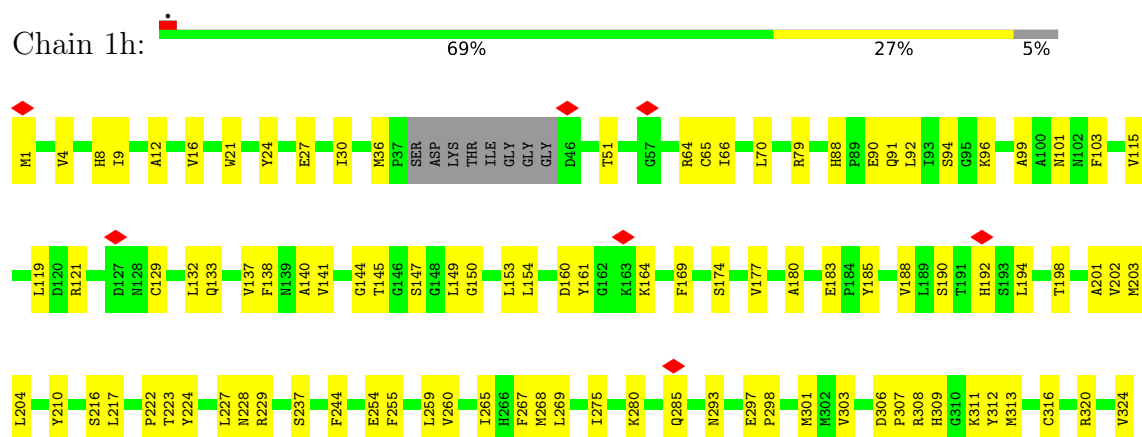
- Molecule 18: Tubulin alpha

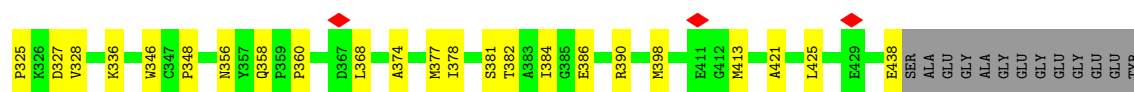


- Molecule 18: Tubulin alpha

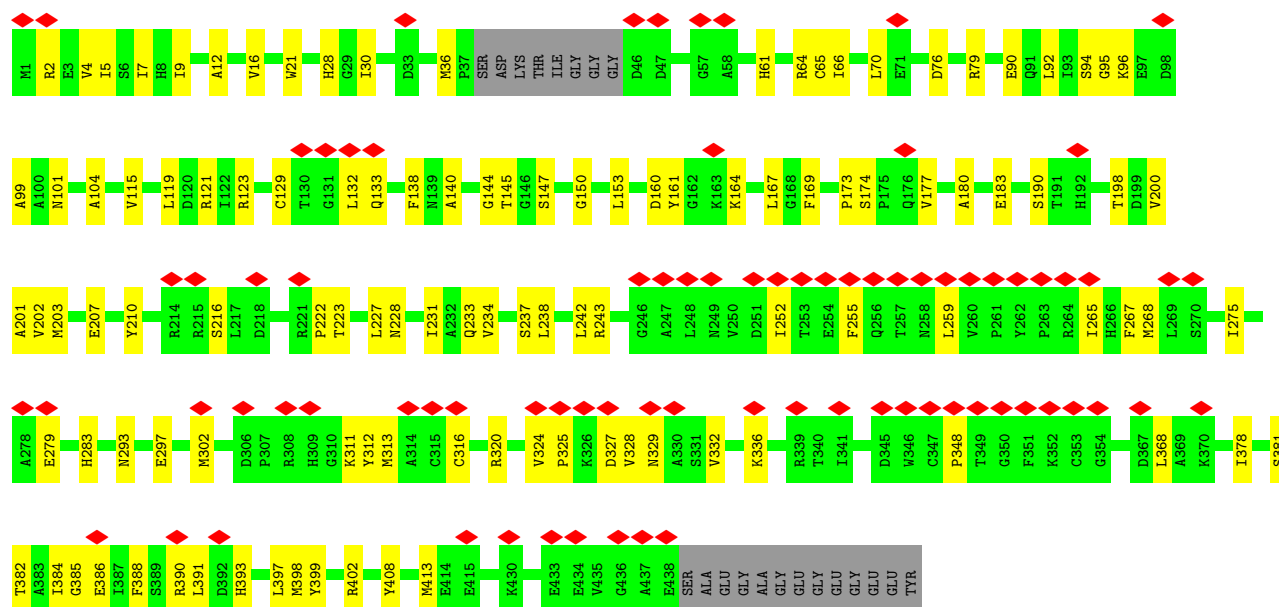
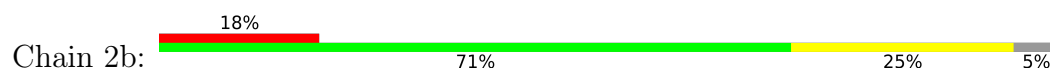


- Molecule 18: Tubulin alpha

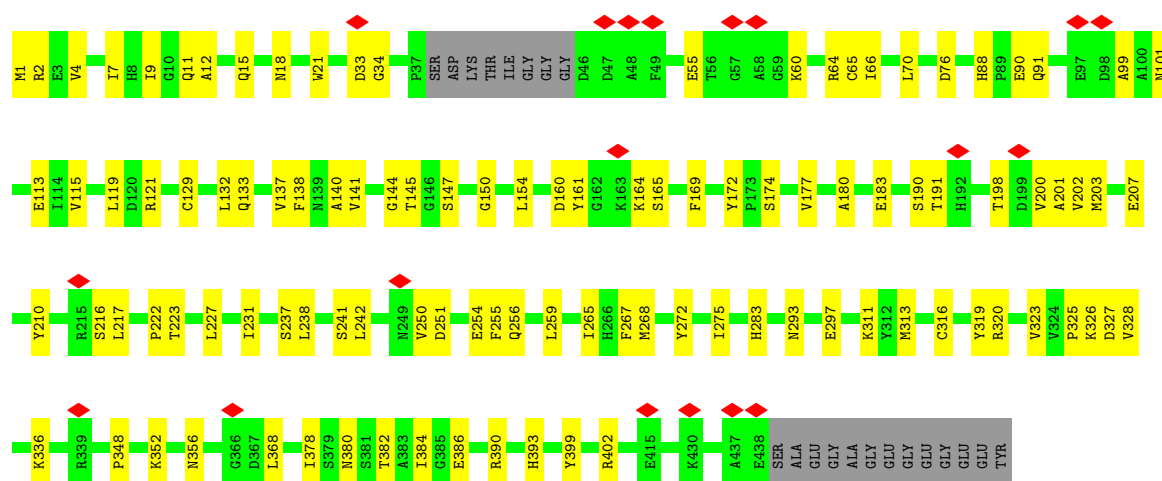




• Molecule 18: Tubulin alpha

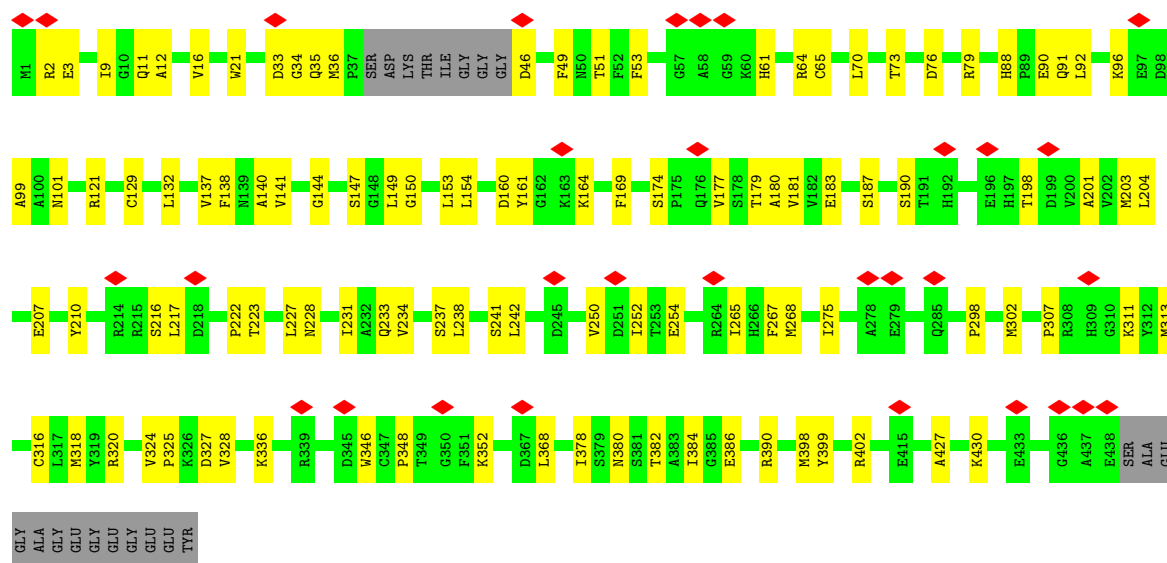


• Molecule 18: Tubulin alpha

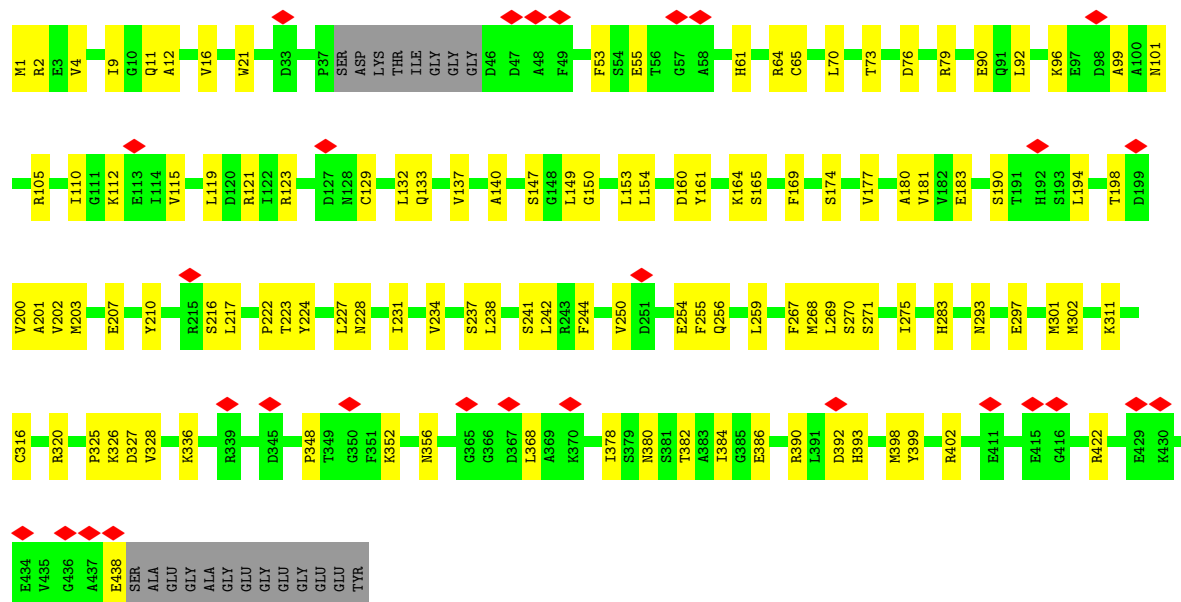


• Molecule 18: Tubulin alpha

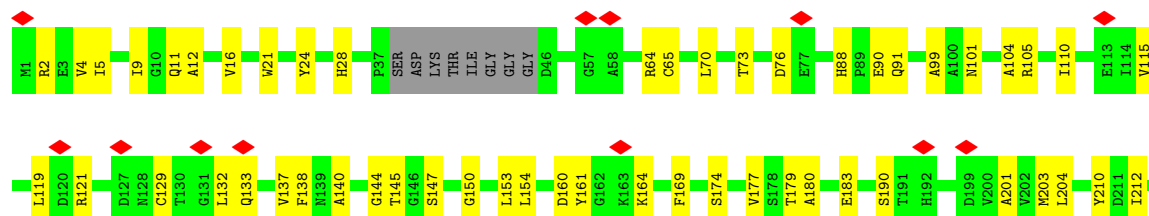
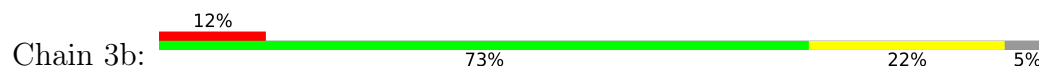


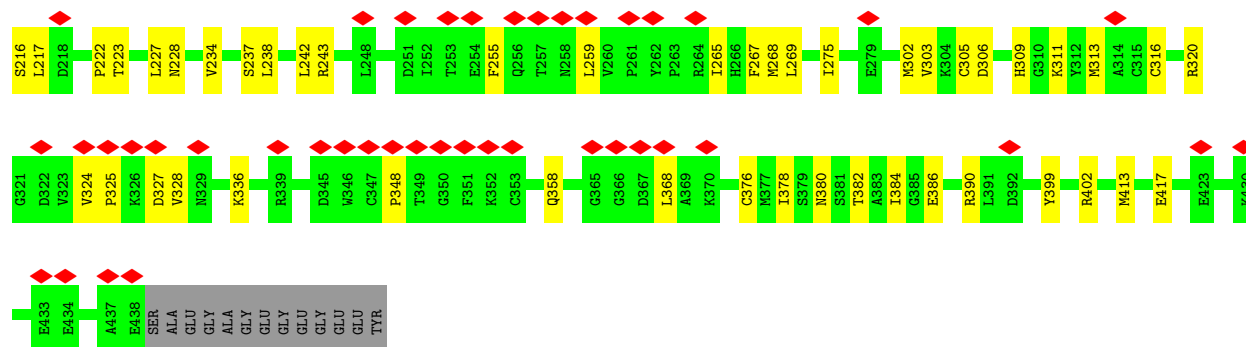


• Molecule 18: Tubulin alpha

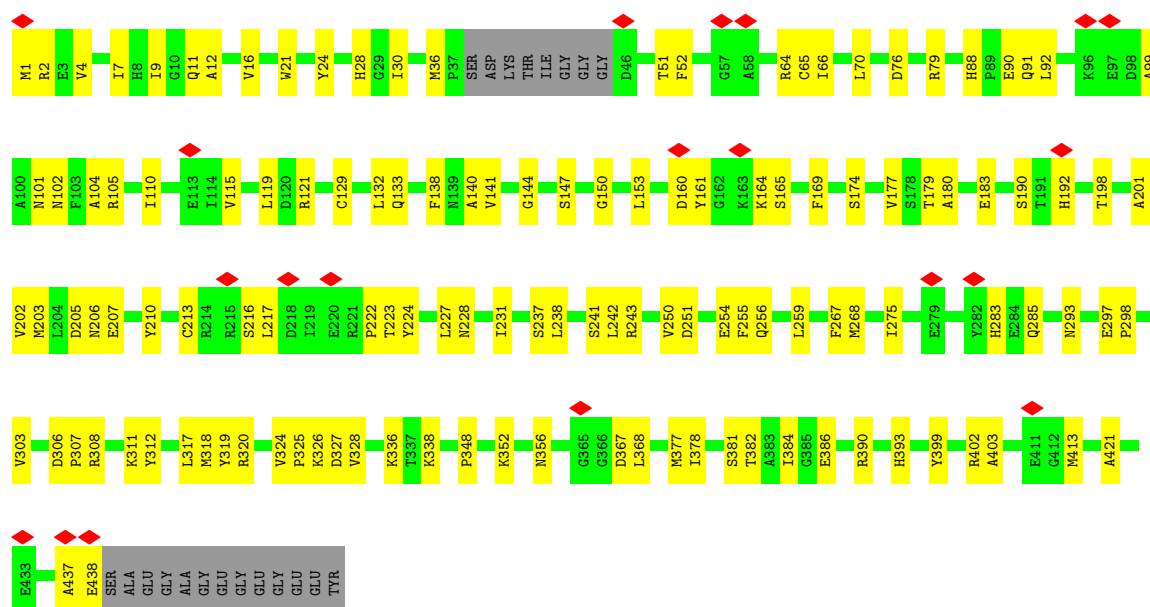


• Molecule 18: Tubulin alpha

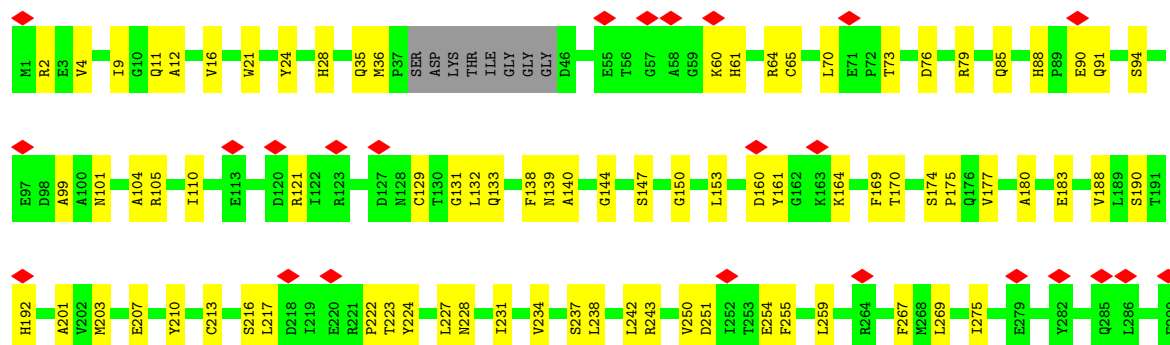


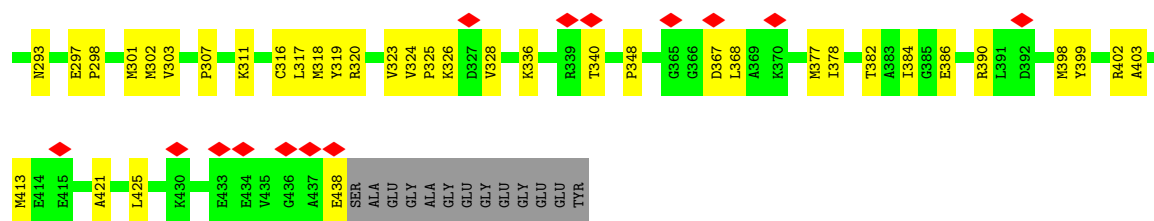


• Molecule 18: Tubulin alpha

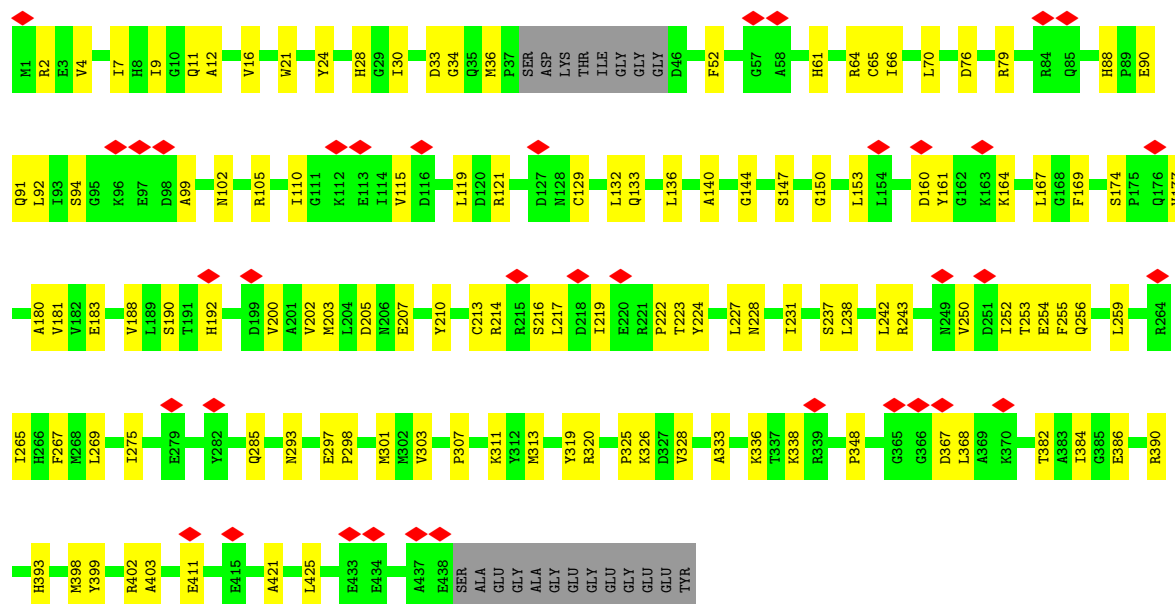


• Molecule 18: Tubulin alpha

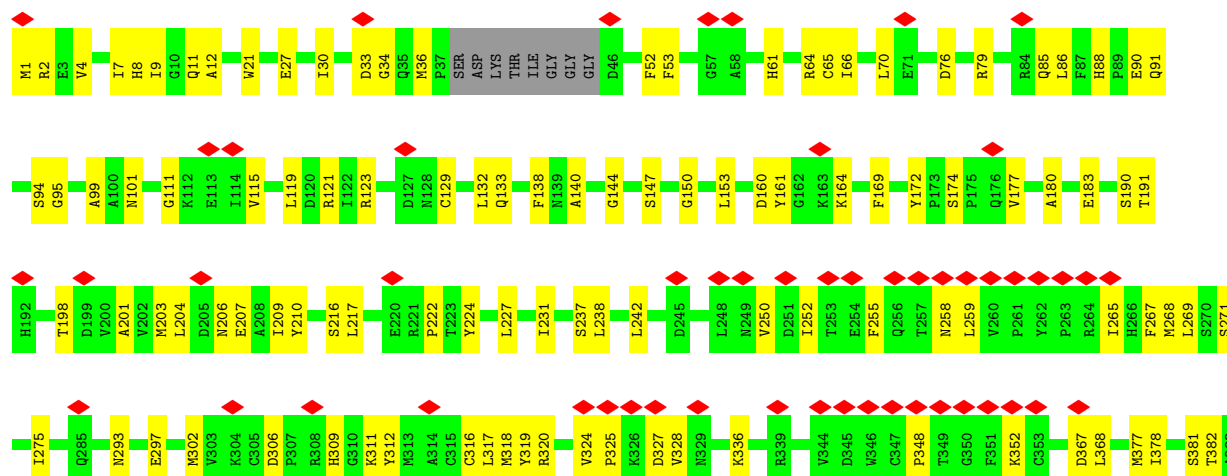


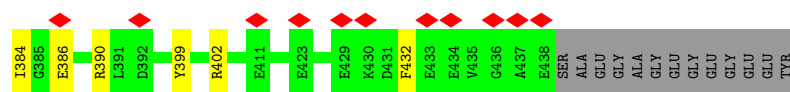


• Molecule 18: Tubulin alpha

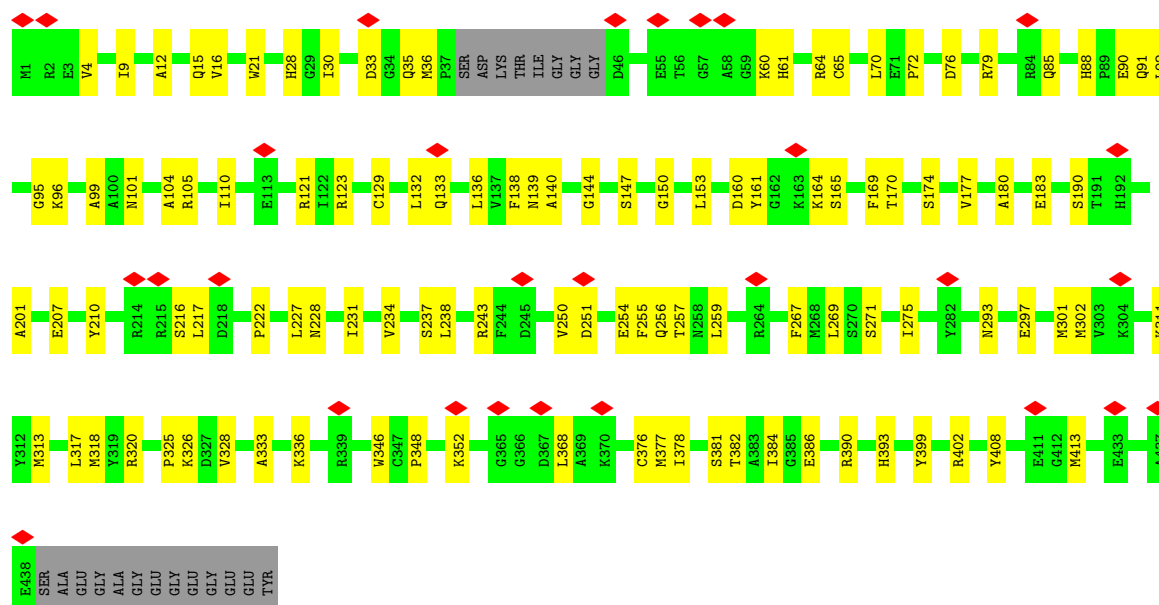


• Molecule 18: Tubulin alpha

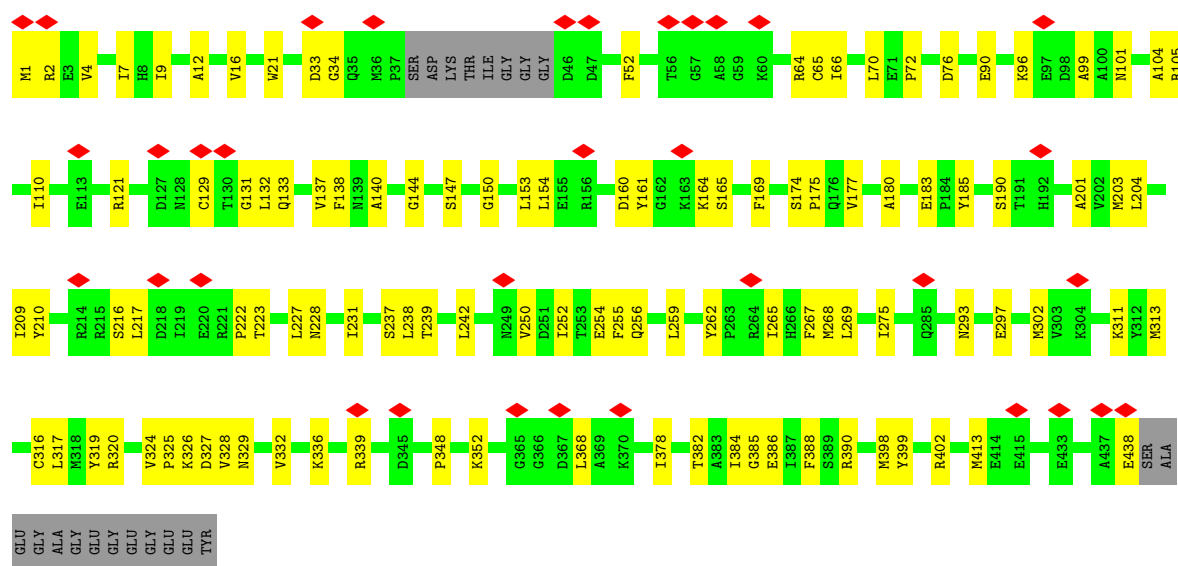




• Molecule 18: Tubulin alpha

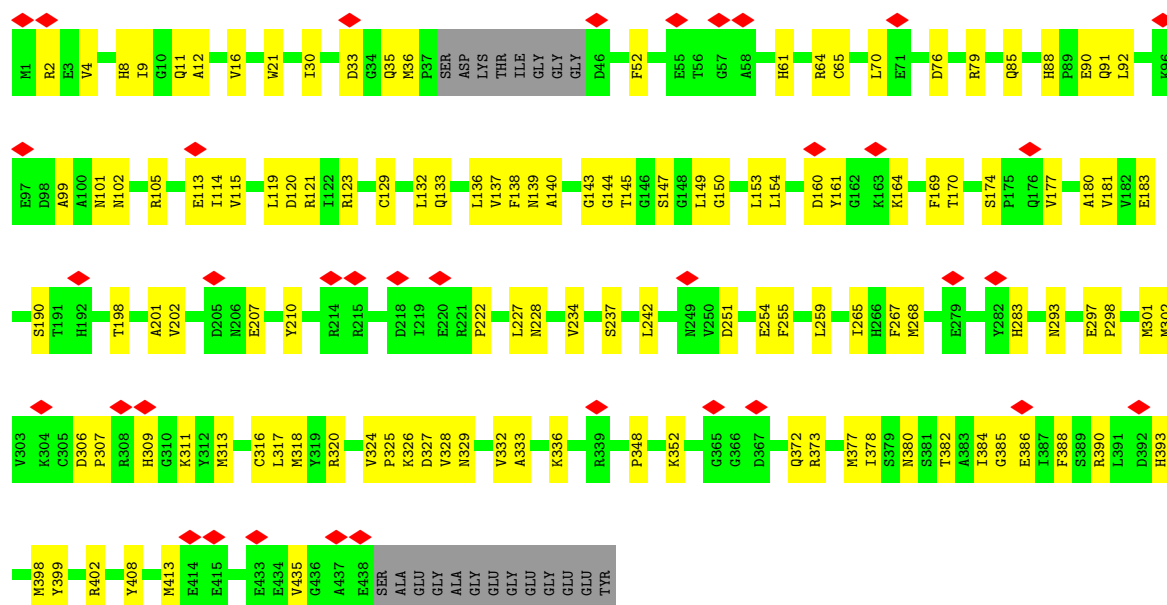


• Molecule 18: Tubulin alpha

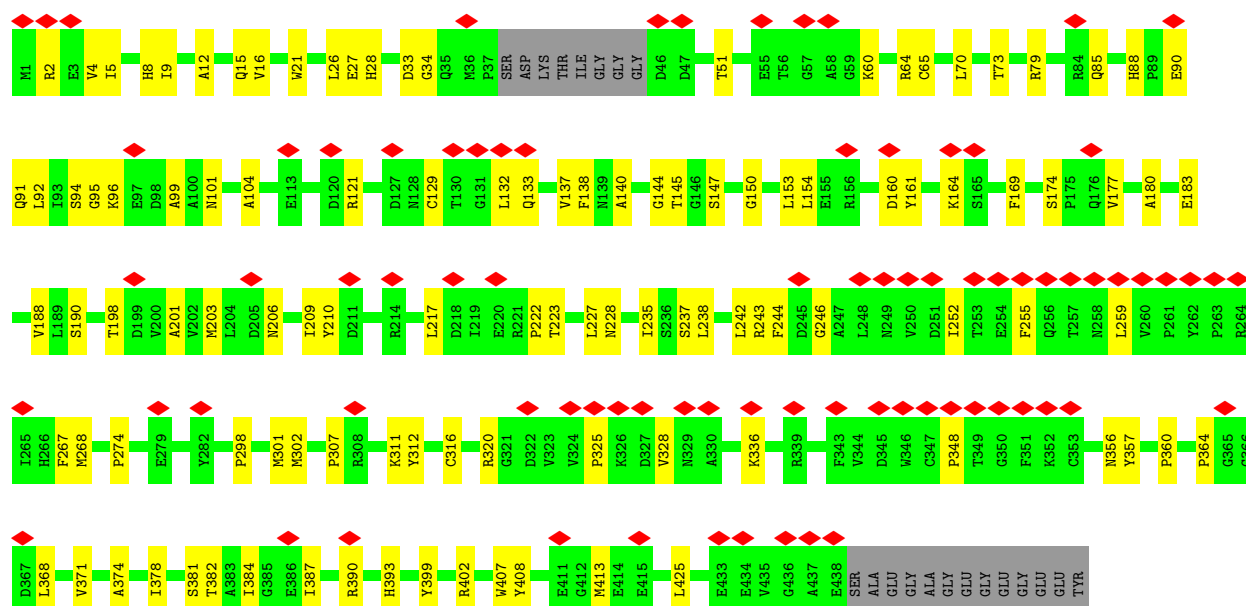


• Molecule 18: Tubulin alpha



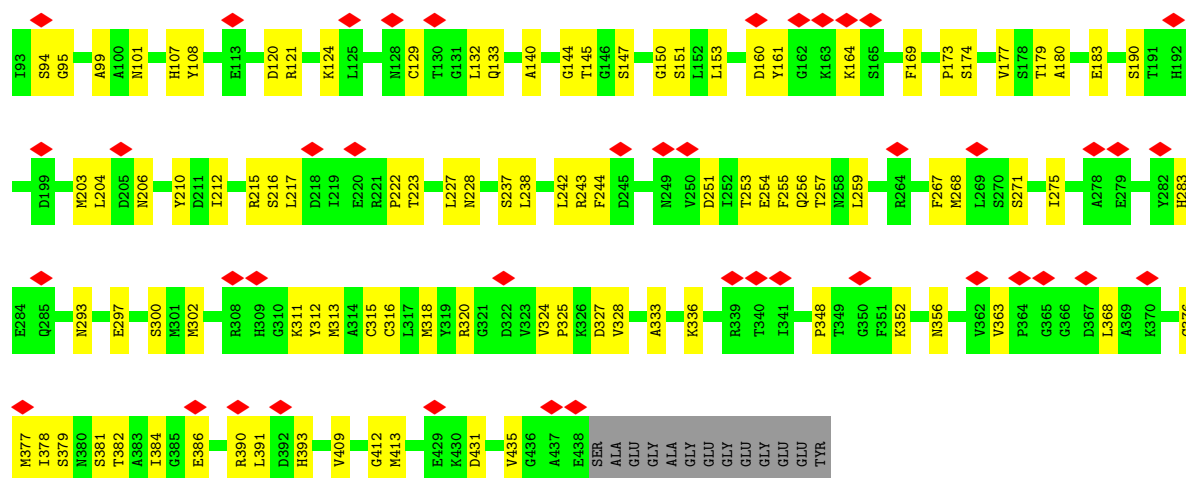


• Molecule 18: Tubulin alpha

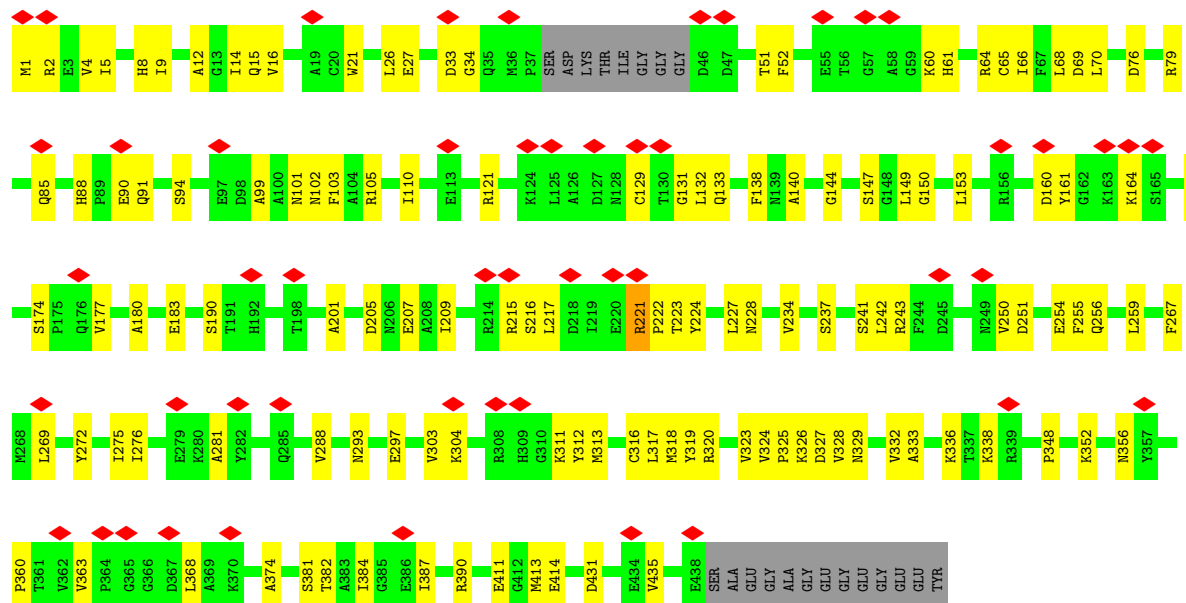


• Molecule 18: Tubulin alpha

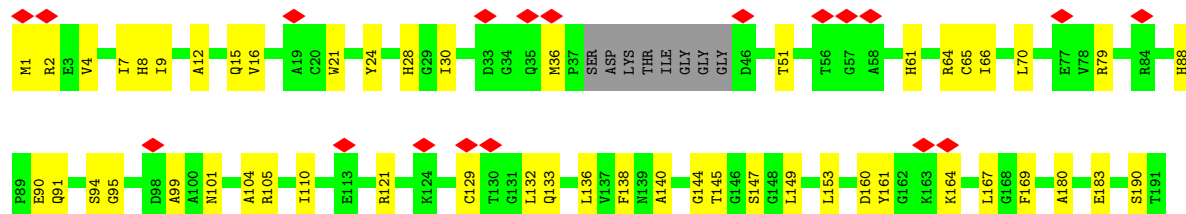
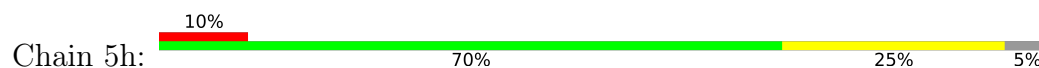


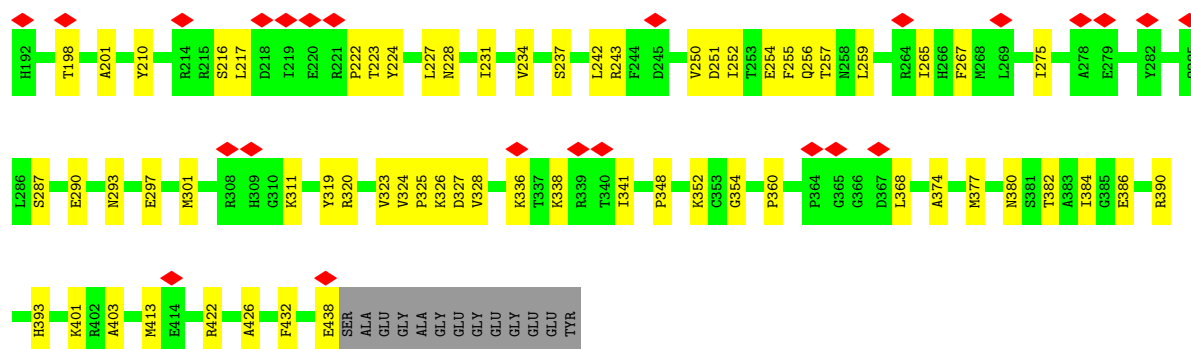


• Molecule 18: Tubulin alpha

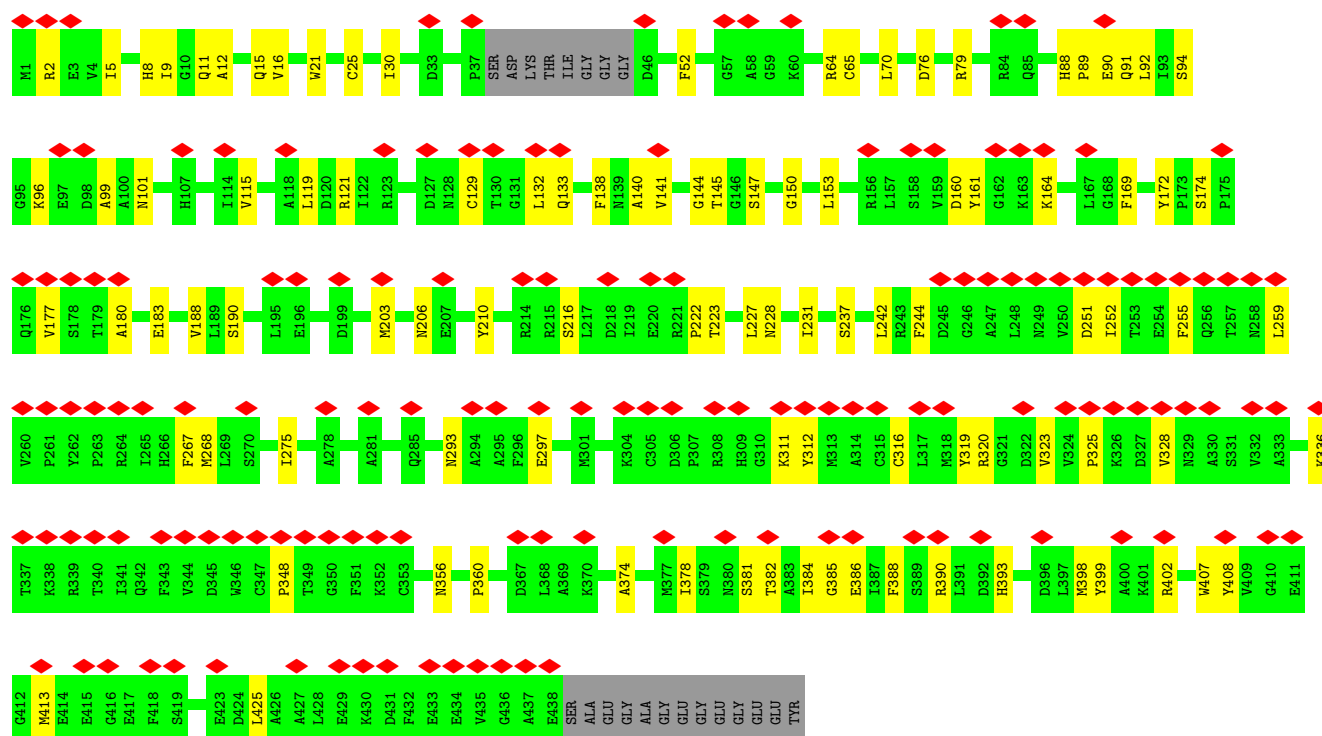
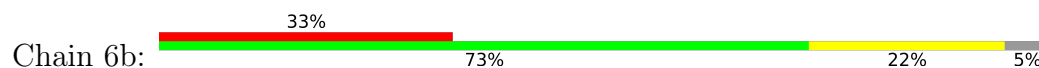


• Molecule 18: Tubulin alpha

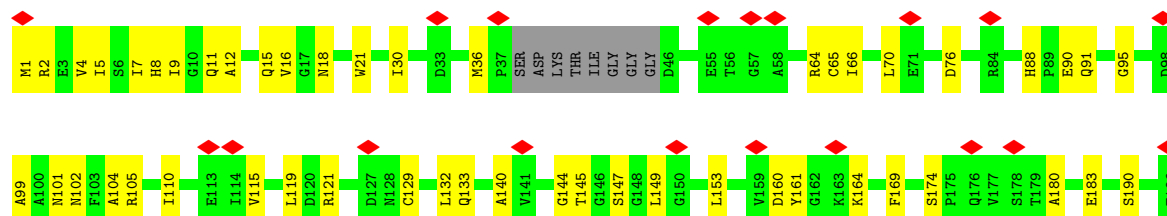


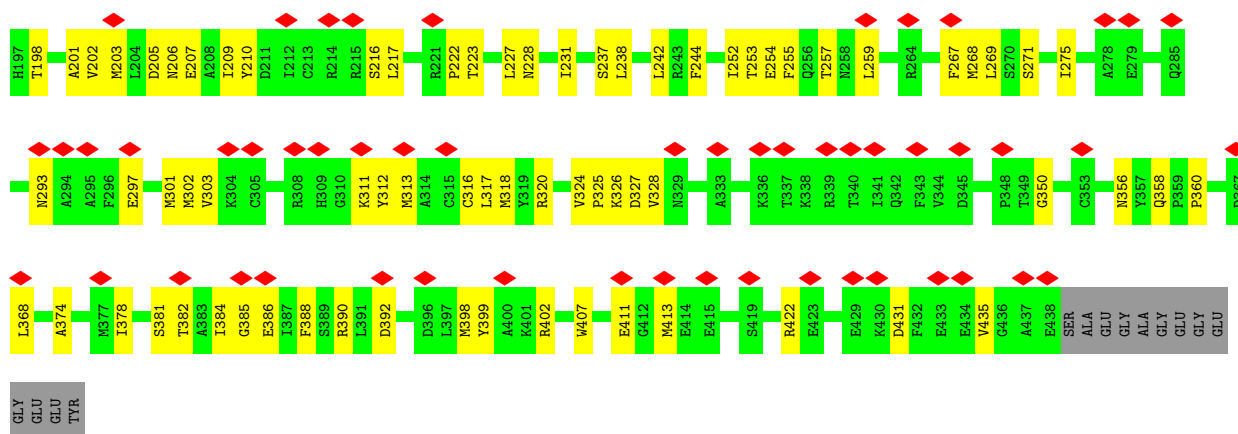


• Molecule 18: Tubulin alpha

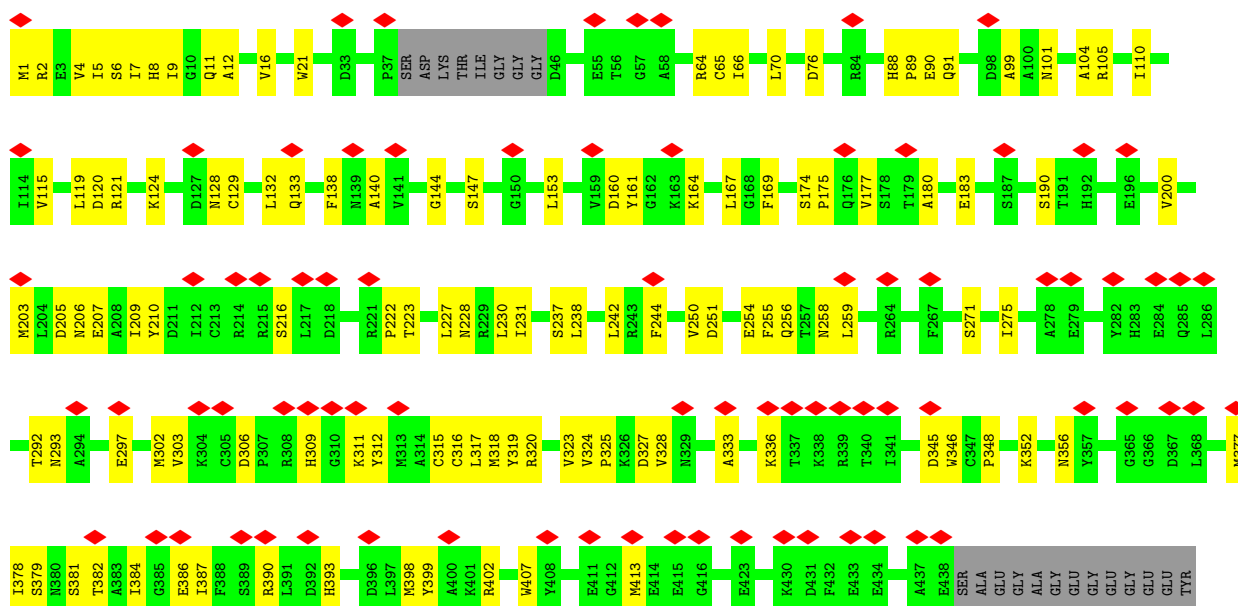


• Molecule 18: Tubulin alpha

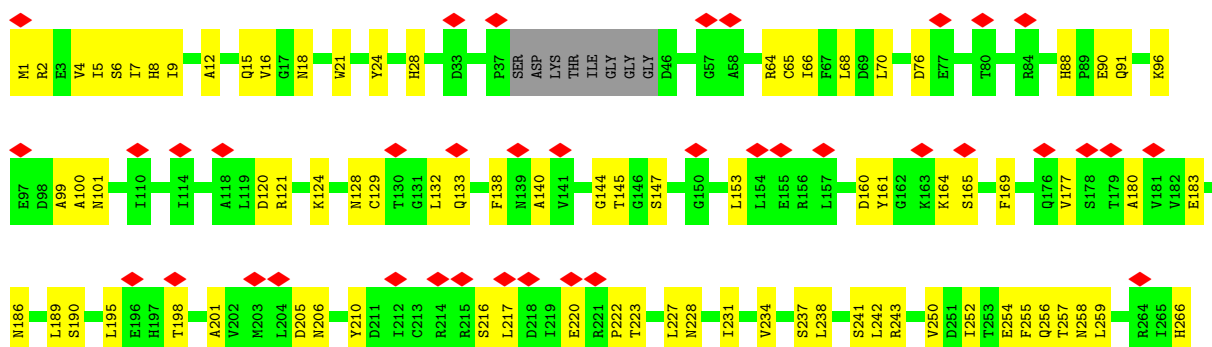


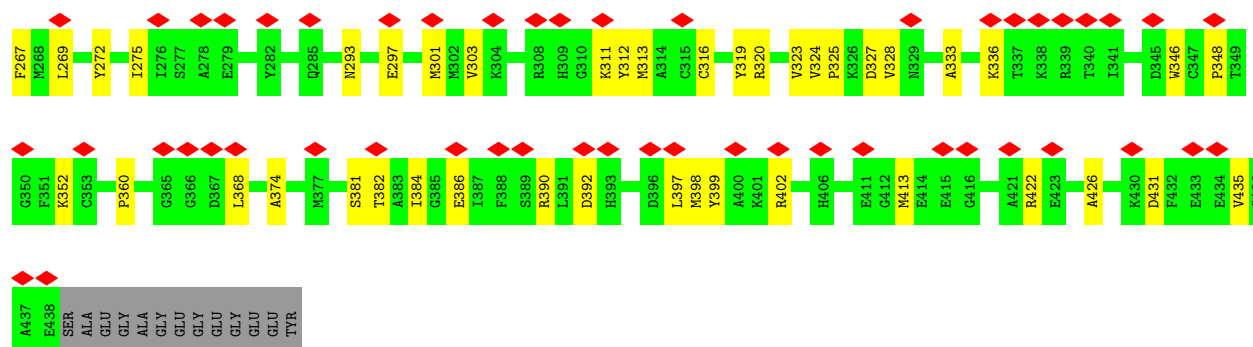


• Molecule 18: Tubulin alpha

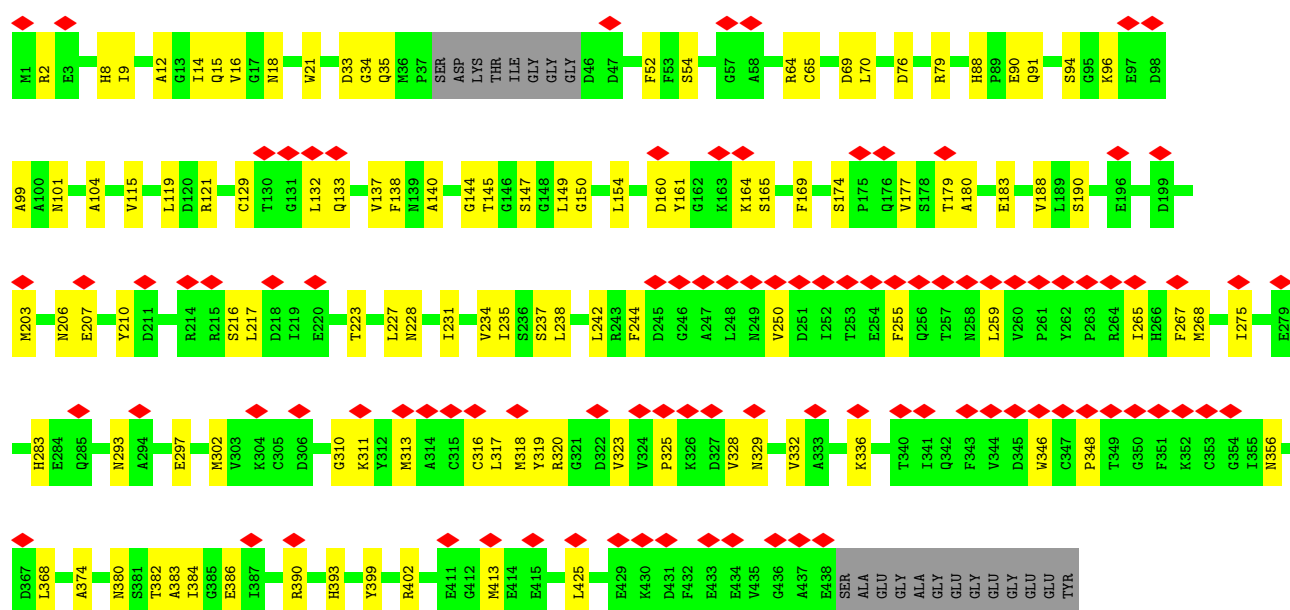
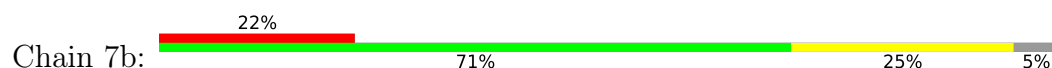


• Molecule 18: Tubulin alpha

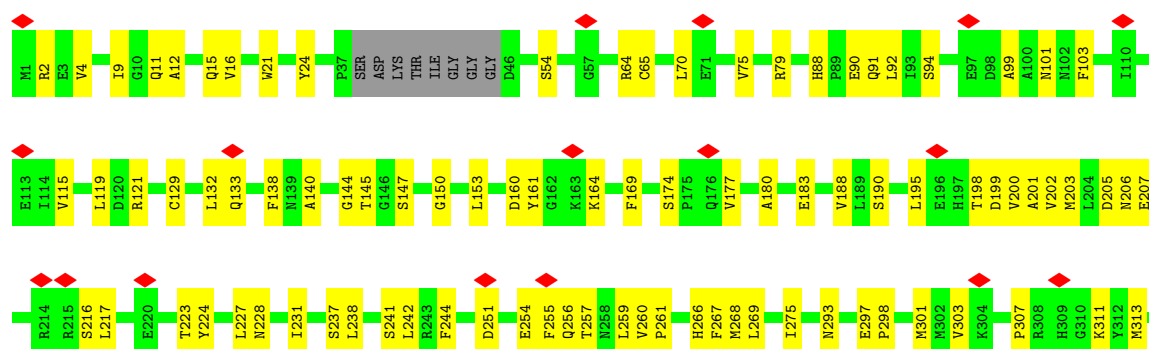


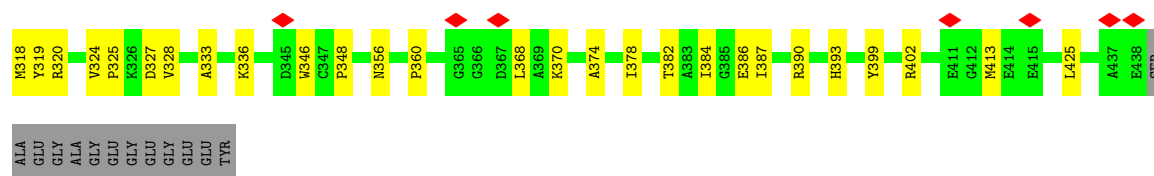


• Molecule 18: Tubulin alpha



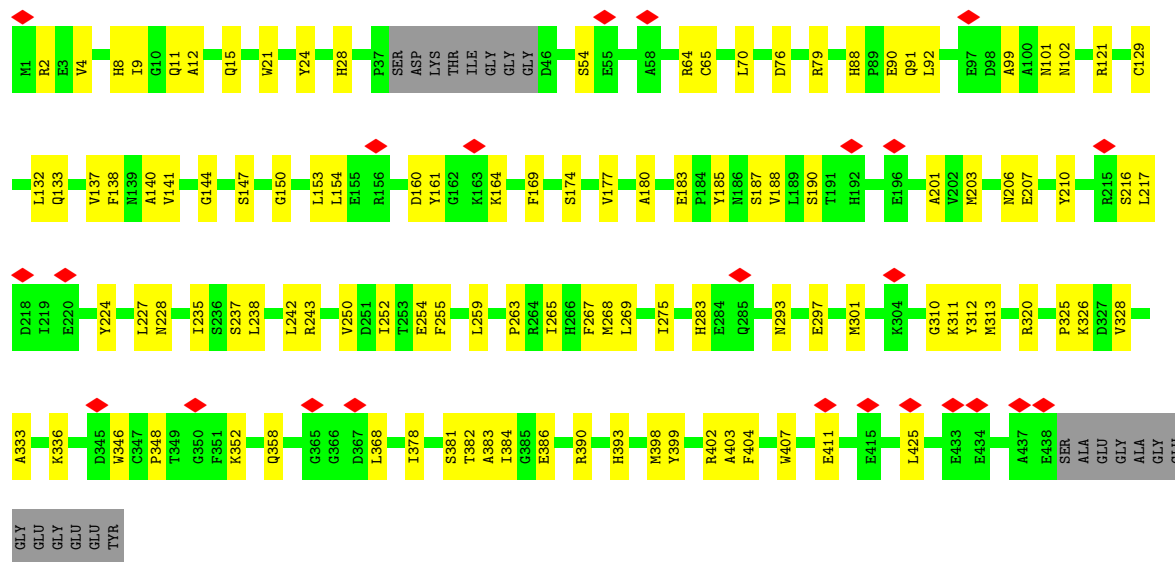
• Molecule 18: Tubulin alpha





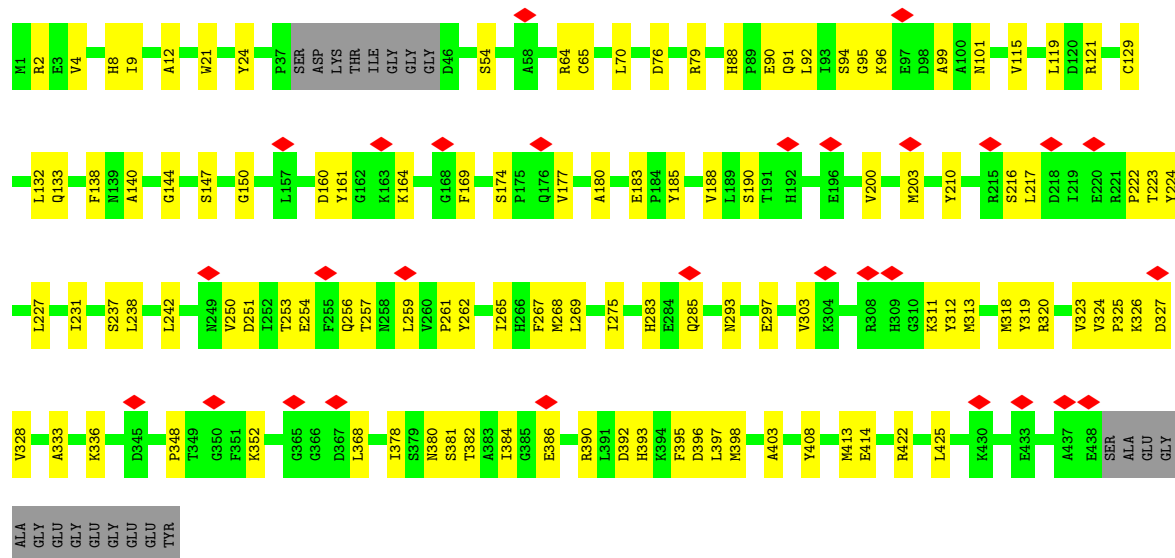
• Molecule 18: Tubulin alpha

Chain 7f: 5% 71% 24% 5%



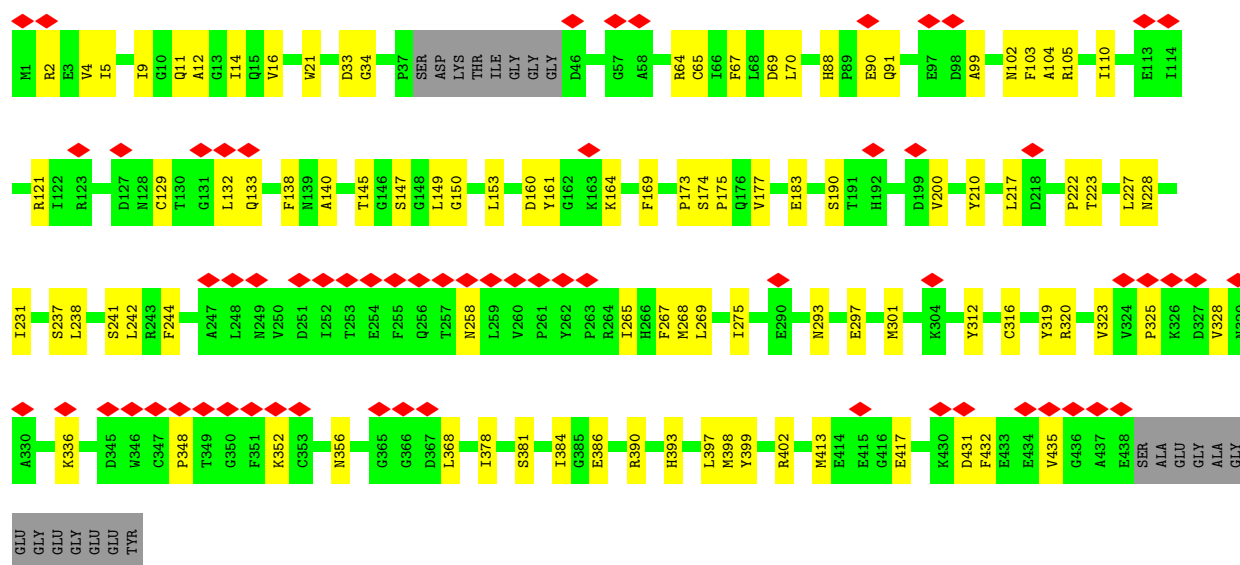
• Molecule 18: Tubulin alpha

Chain 7h: 6% 71% 25% 5%



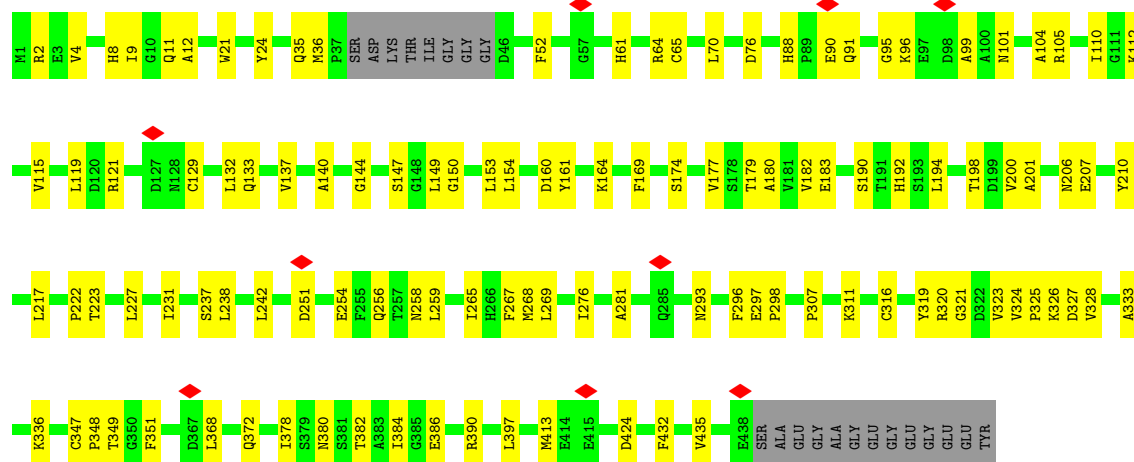
• Molecule 18: Tubulin alpha

Chain 8b: 



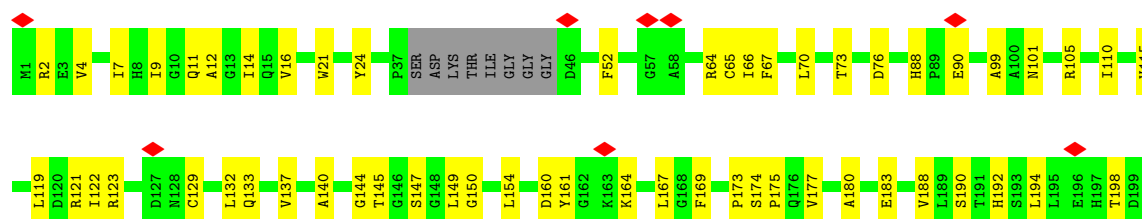
• Molecule 18: Tubulin alpha

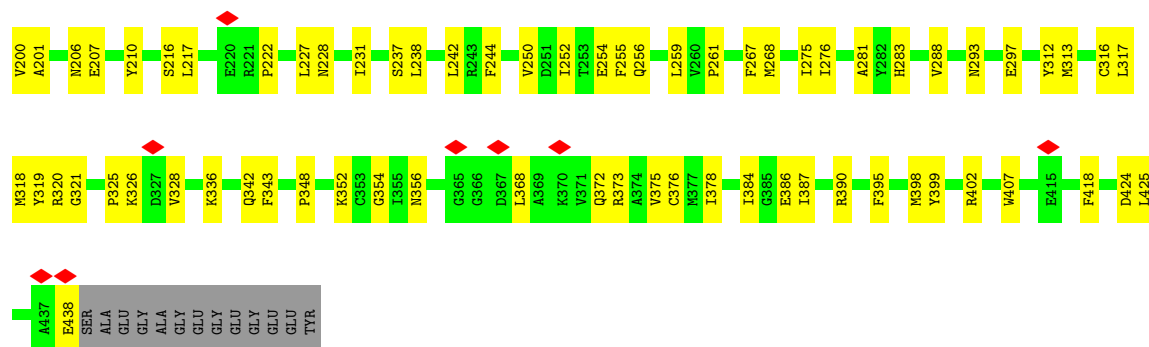
Chain 8d: 



• Molecule 18: Tubulin alpha

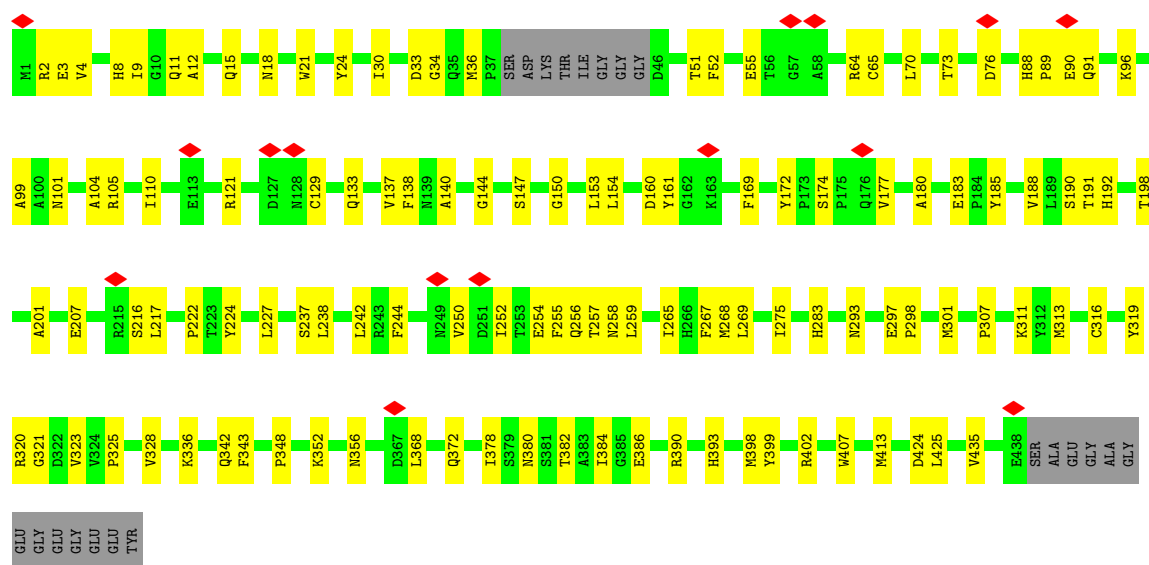
Chain 8f: 





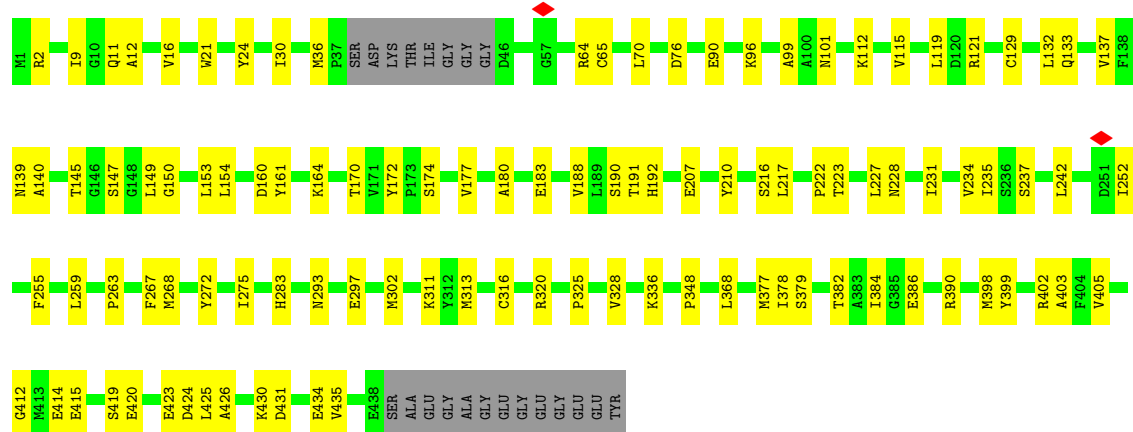
- Molecule 18: Tubulin alpha

Chain 8h: 69% 27% 5%

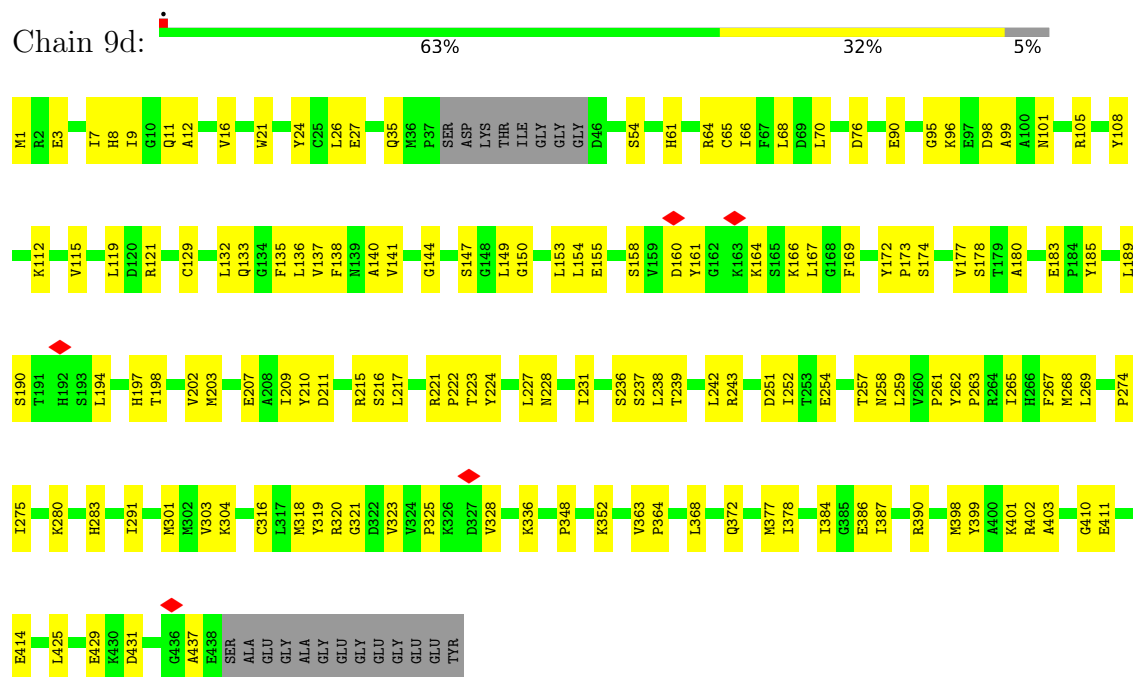


- Molecule 18: Tubulin alpha

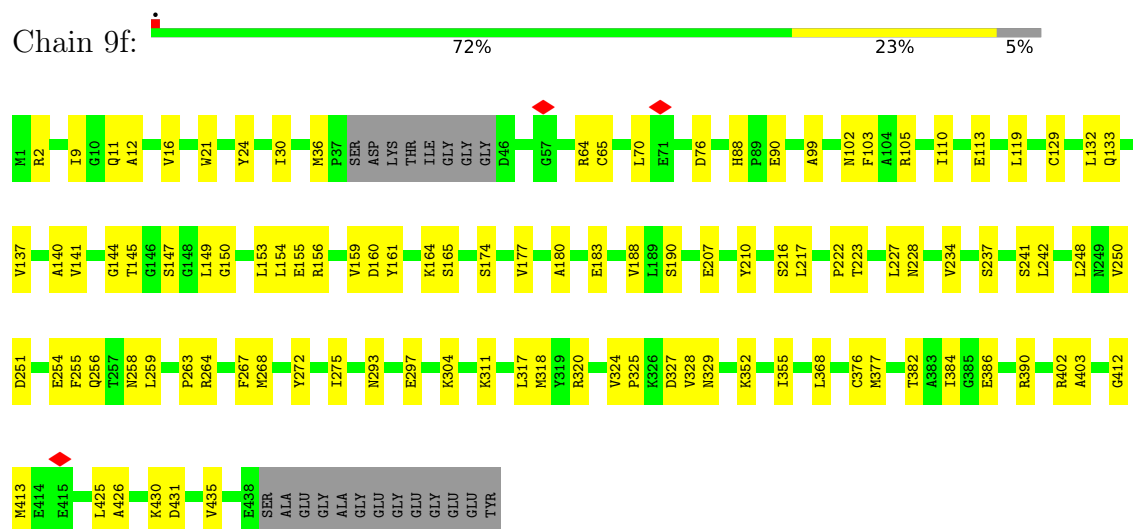
Chain 9b: 72% 23% 5%



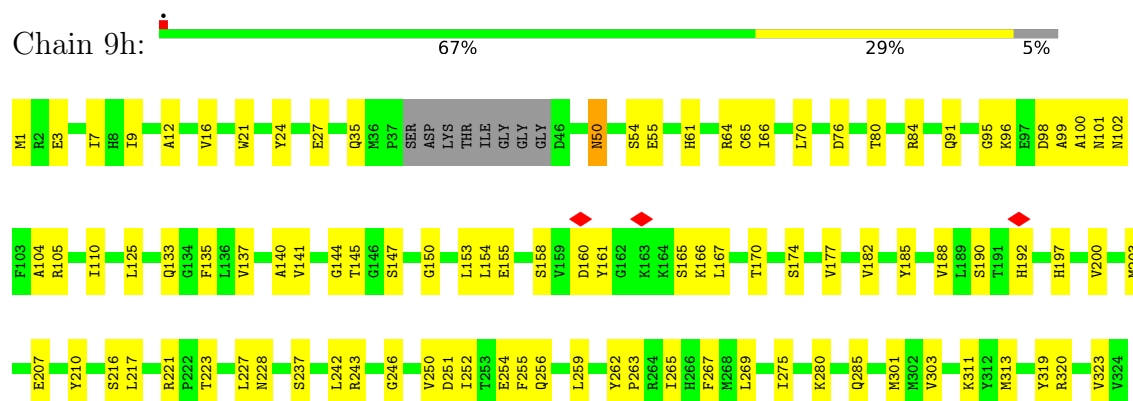
- Molecule 18: Tubulin alpha

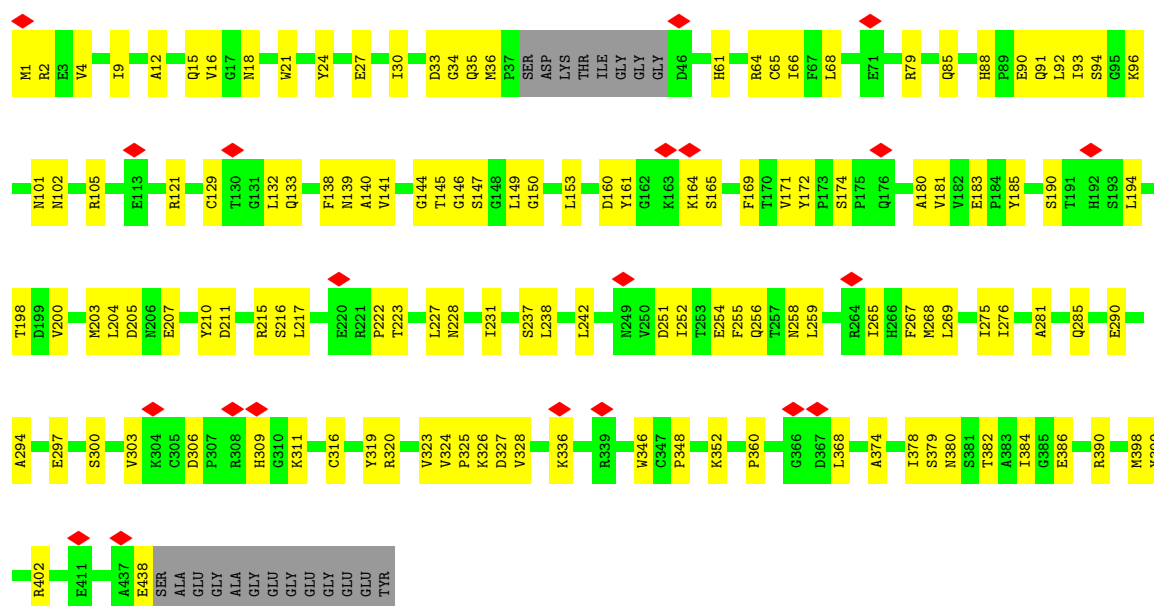


• Molecule 18: Tubulin alpha

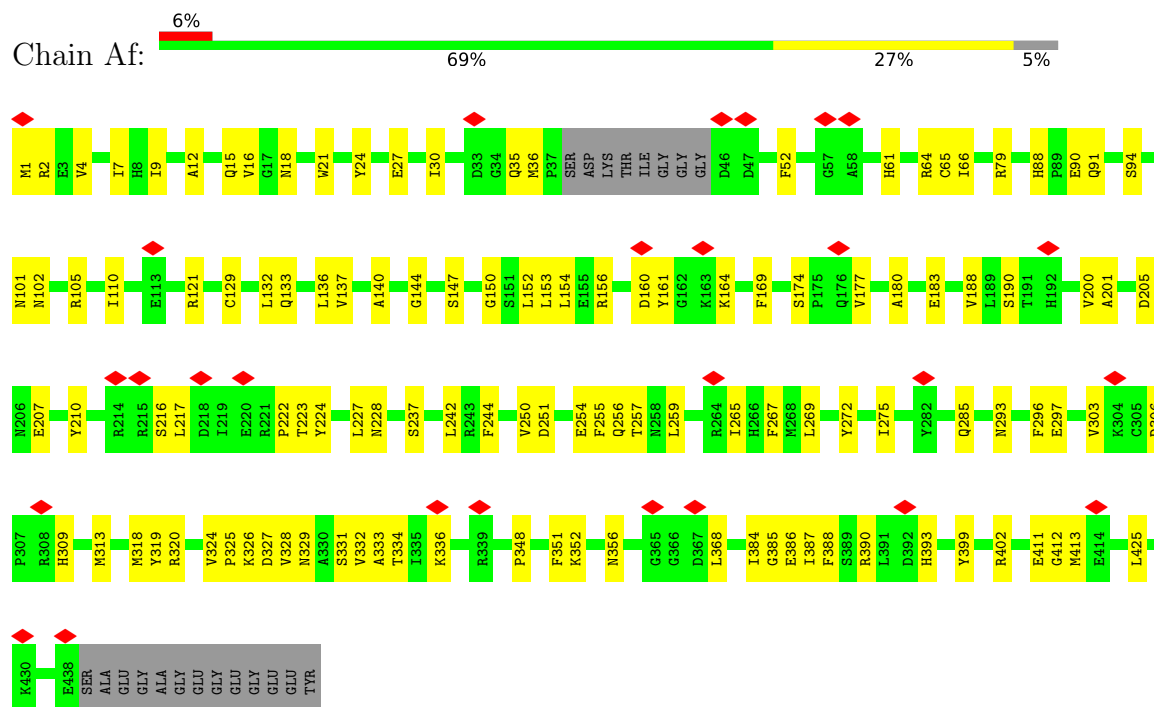


• Molecule 18: Tubulin alpha

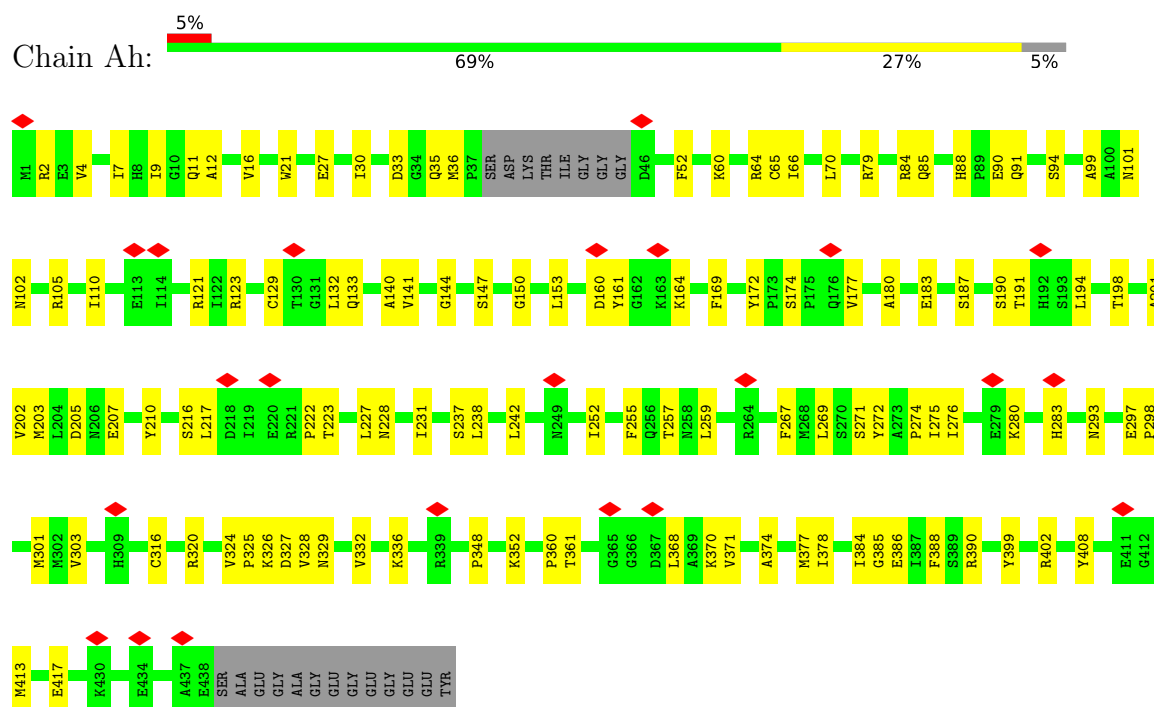




- Molecule 18: Tubulin alpha

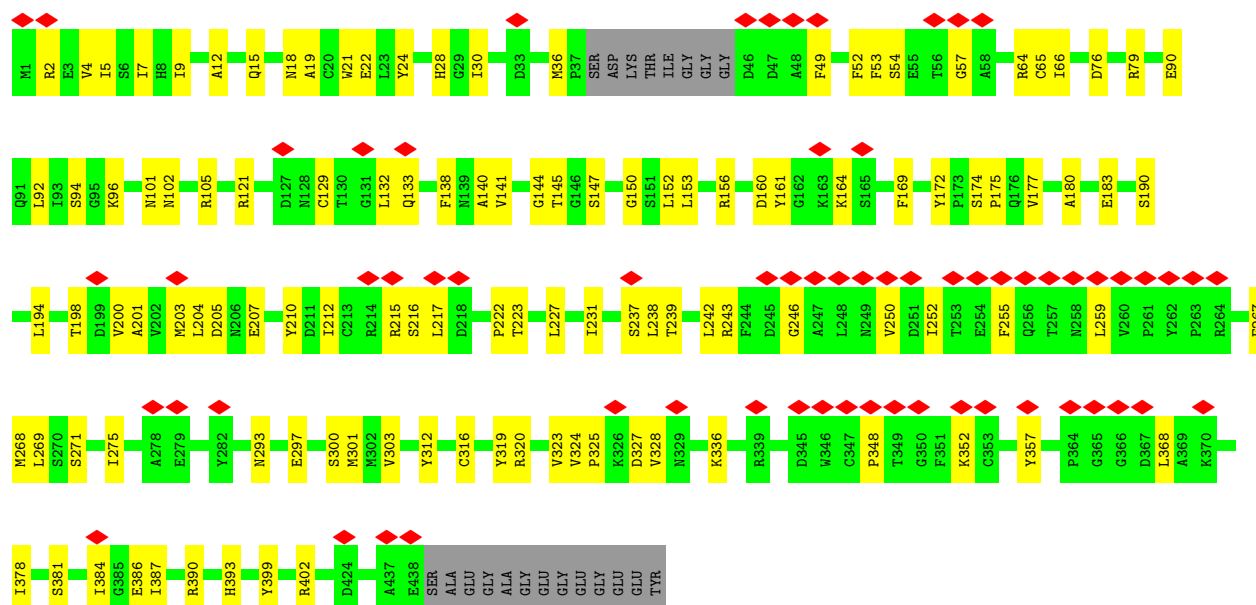


- Molecule 18: Tubulin alpha



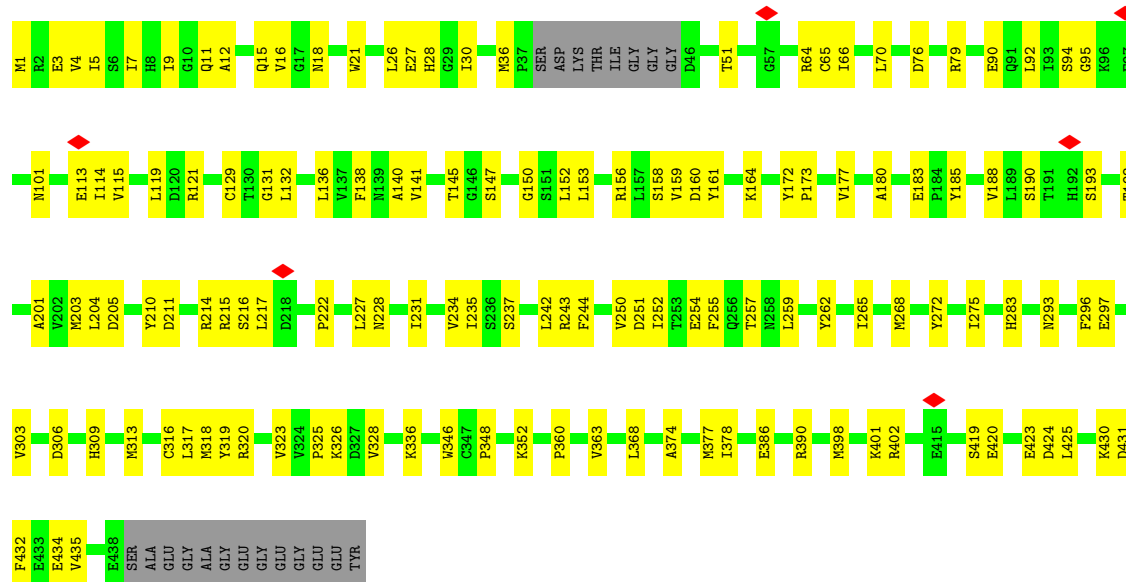
- Molecule 18: Tubulin alpha





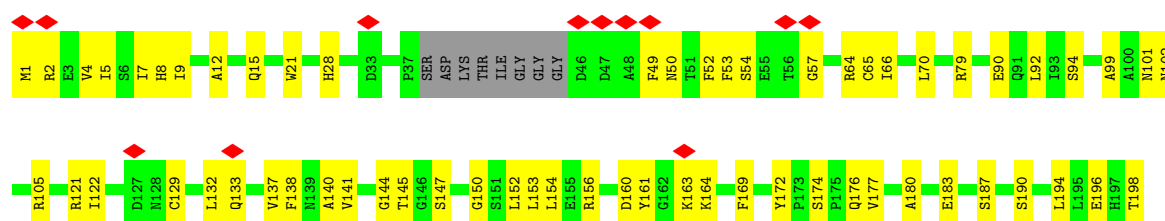
• Molecule 18: Tubulin alpha

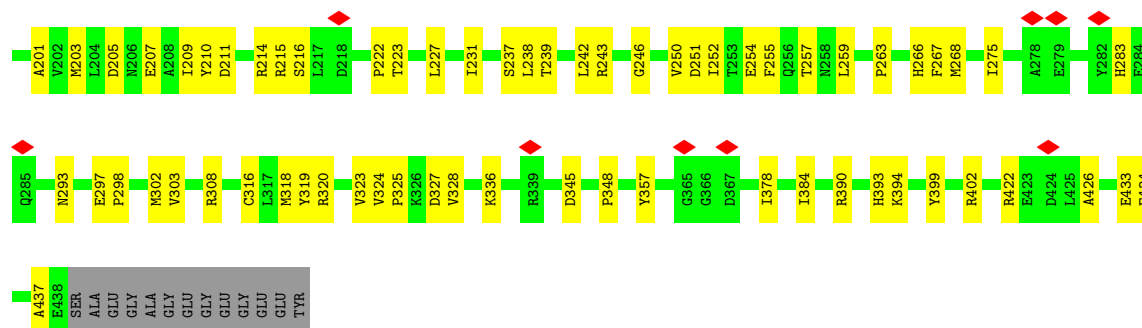
Chain Bd: 65% 30% 5%



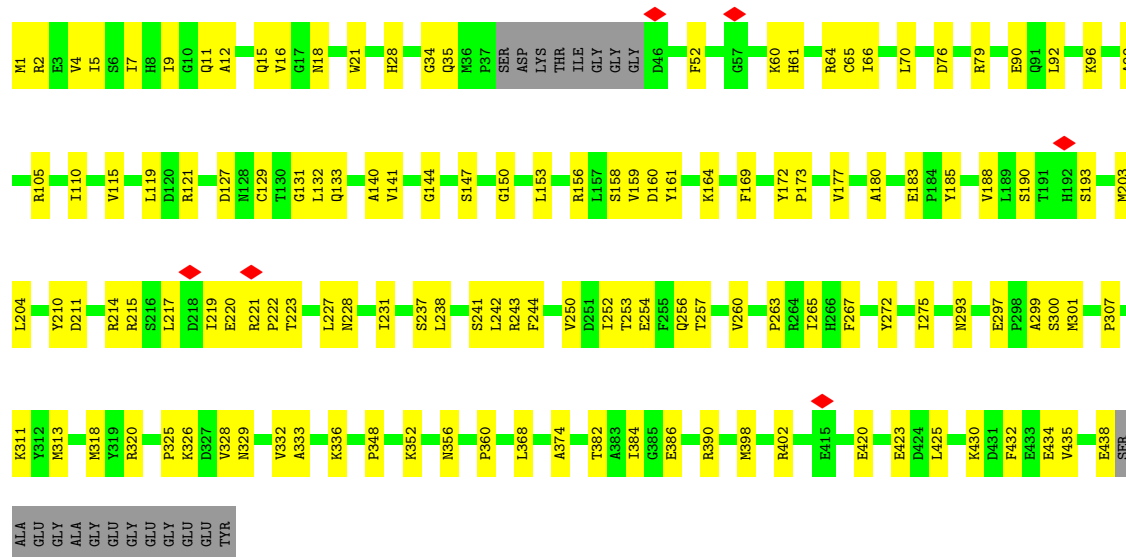
• Molecule 18: Tubulin alpha

Chain Bf: 5% 67% 28% 5%

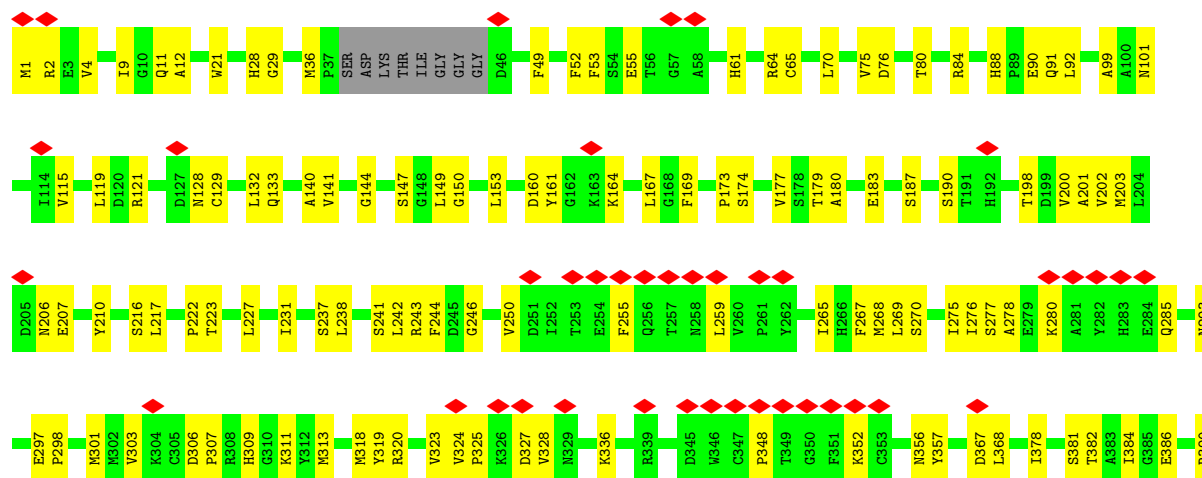


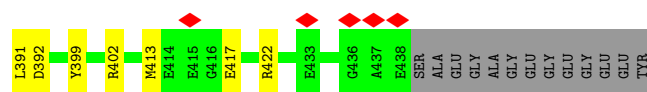


• Molecule 18: Tubulin alpha

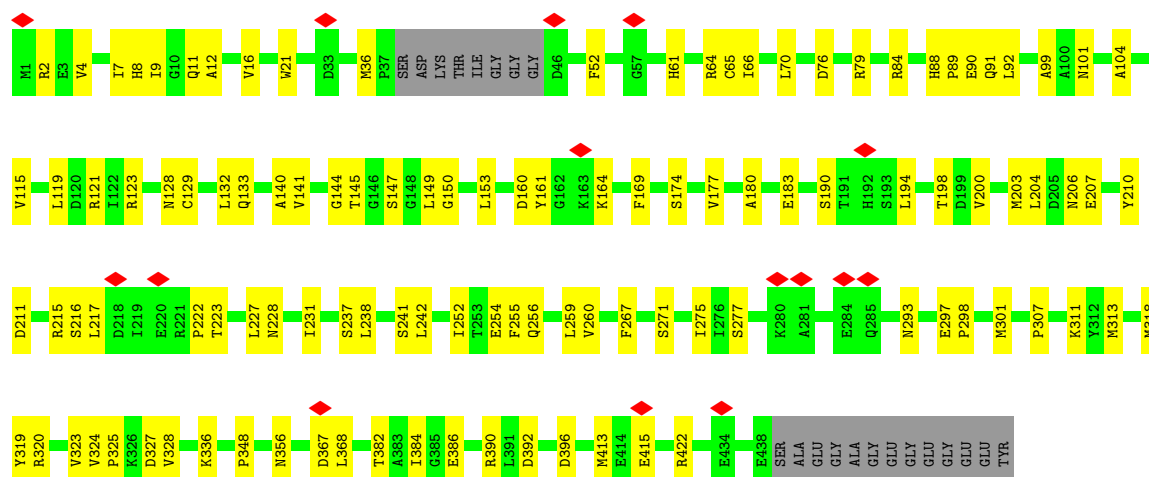


• Molecule 18: Tubulin alpha

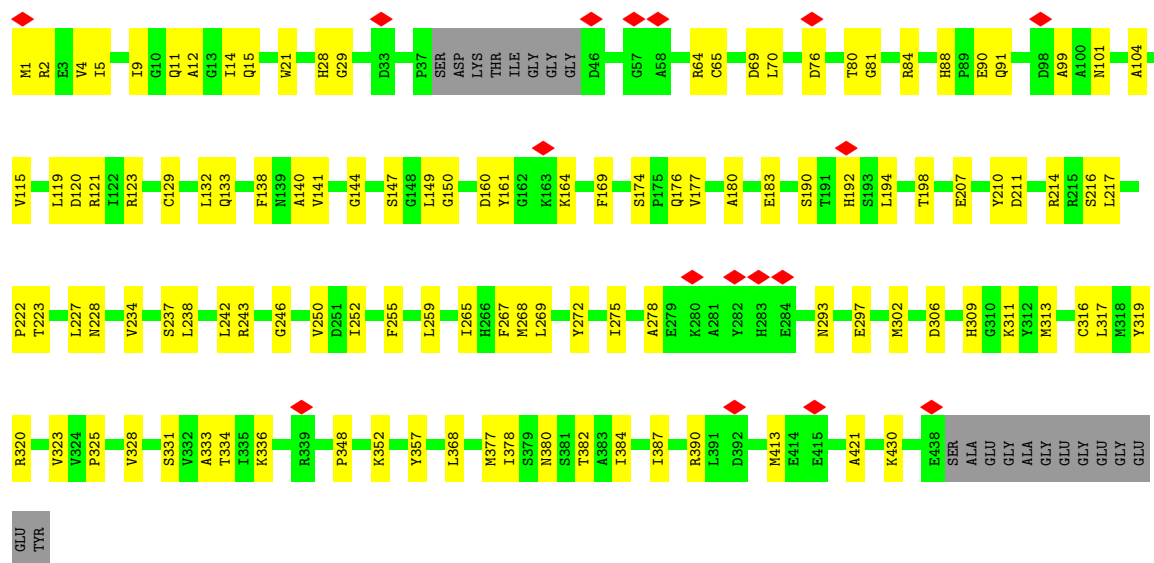




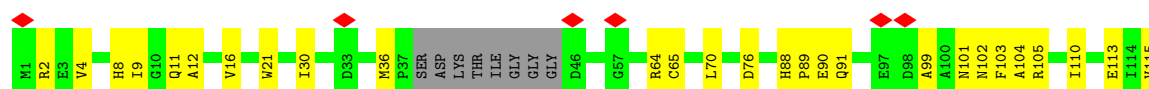
• Molecule 18: Tubulin alpha

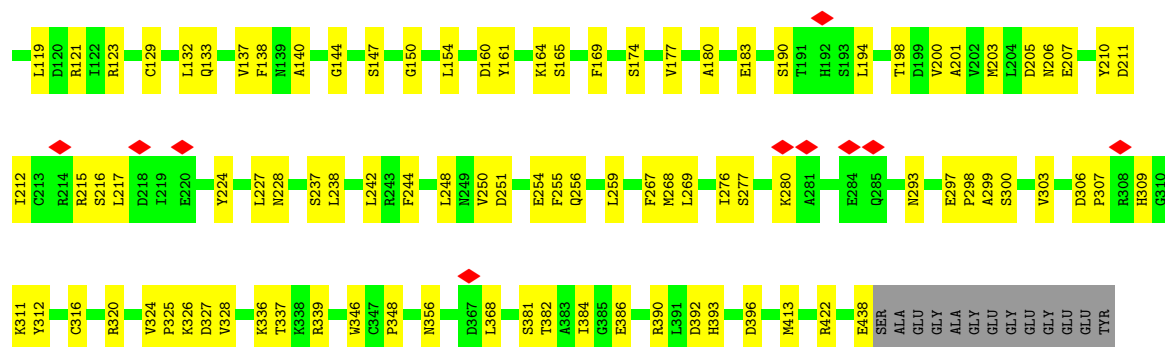


• Molecule 18: Tubulin alpha

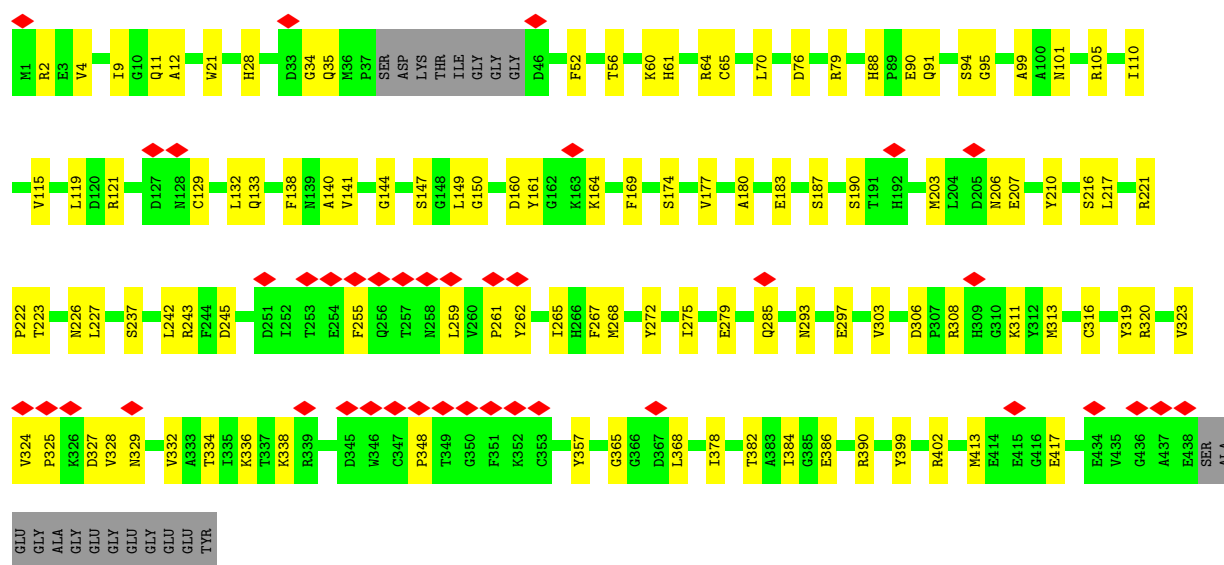


• Molecule 18: Tubulin alpha

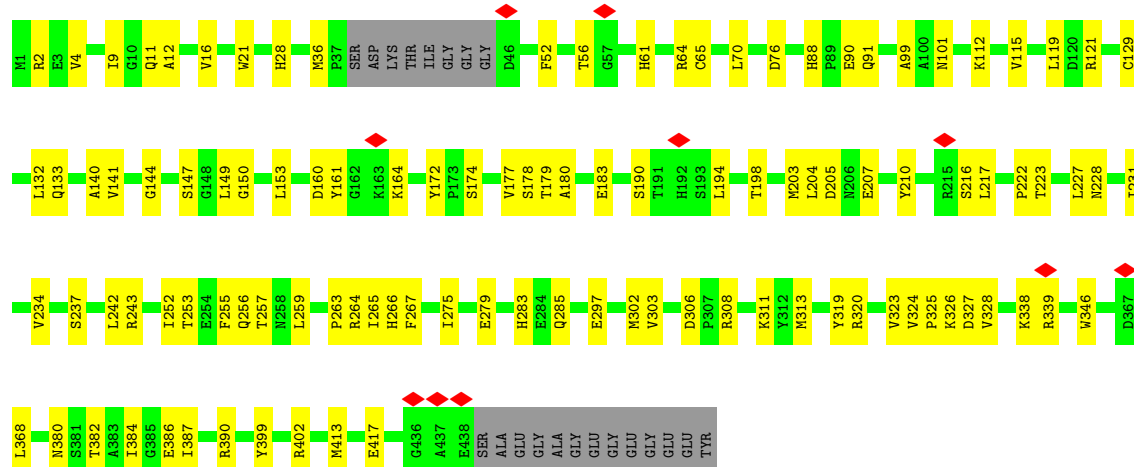




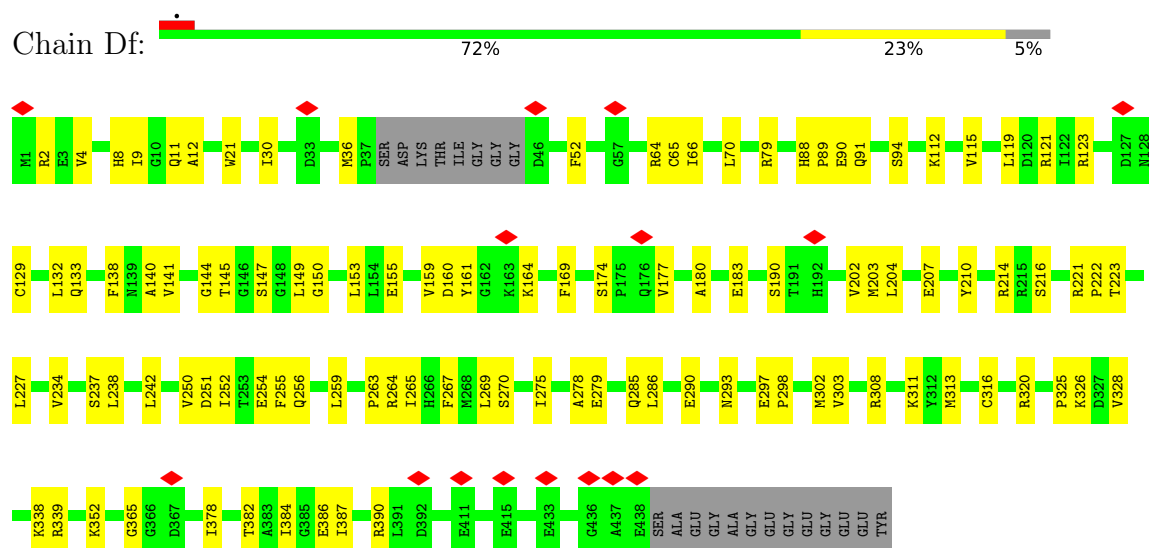
• Molecule 18: Tubulin alpha



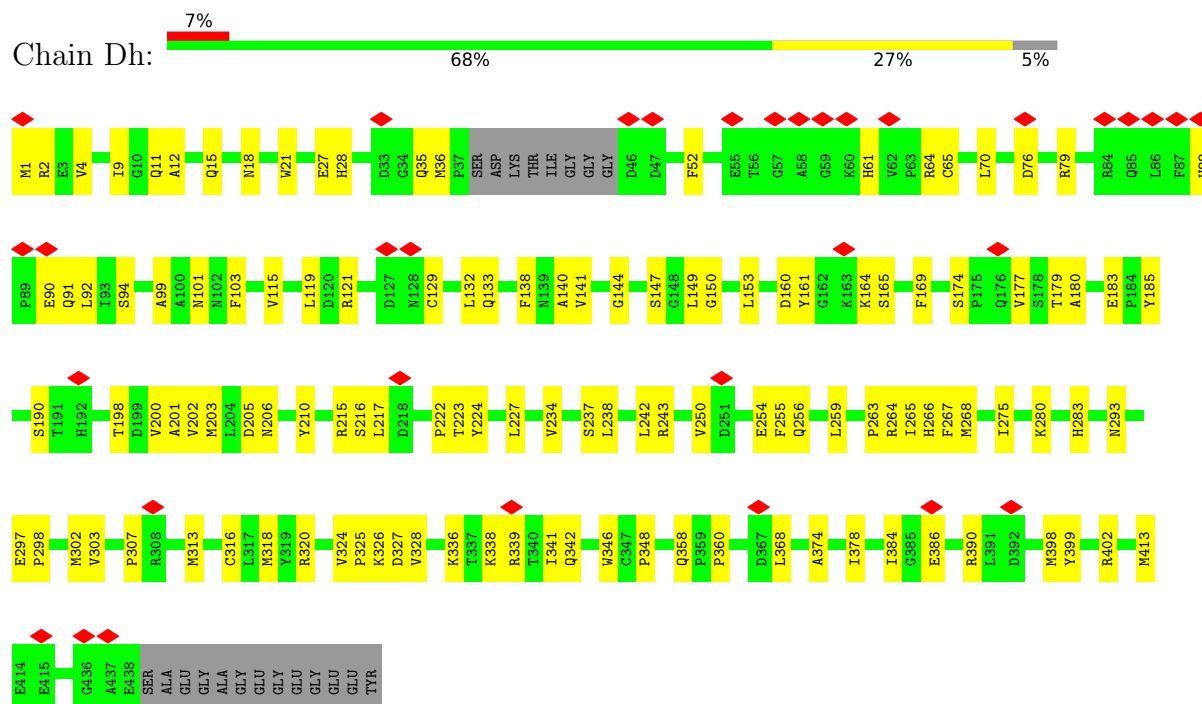
• Molecule 18: Tubulin alpha



- Molecule 18: Tubulin alpha



- Molecule 18: Tubulin alpha



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	192253	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	9.616	Depositor
Minimum map value	0.000	Depositor
Average map value	0.046	Depositor
Map value standard deviation	0.138	Depositor
Recommended contour level	0.5	Depositor
Map size ($\text{\AA}$)	805.9794, 699.57947, 699.57947	wwPDB
Map dimensions	606, 526, 526	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: GTP, ADP, GDP

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	0.25	0/3738	0.41	0/5058
1	0B	0.16	0/3738	0.38	0/5058
1	0C	0.15	0/3809	0.34	0/5153
1	0D	0.14	0/3809	0.34	0/5153
2	0E	0.16	0/1033	0.32	0/1399
2	0F	0.16	0/1033	0.32	0/1399
2	0G	0.15	0/1033	0.34	0/1399
2	0H	0.22	0/1033	0.39	0/1399
3	0I	0.19	0/3391	0.37	0/4613
3	0J	0.19	0/3391	0.39	0/4613
4	0K	0.15	0/1231	0.40	1/1674 (0.1%)
4	0L	0.13	0/1231	0.38	1/1674 (0.1%)
5	0M	0.14	0/4111	0.31	0/5556
5	0N	0.13	0/4111	0.30	0/5556
6	0O	0.13	0/1501	0.27	0/2016
6	0P	0.15	0/1501	0.30	0/2016
7	0Q	0.15	0/4634	0.36	1/6298 (0.0%)
7	0S	0.14	0/4634	0.37	1/6298 (0.0%)
12	0X	0.17	0/3143	0.41	1/4267 (0.0%)
12	0Y	0.25	0/2945	0.45	0/4003
12	0Z	0.16	0/3143	0.40	1/4267 (0.0%)
12	1A	0.23	0/2945	0.43	0/4003
13	1B	0.16	0/4891	0.34	0/6694
13	1C	0.18	0/4891	0.35	0/6694
14	1D	0.19	0/4141	0.41	0/5670
14	1E	0.15	0/4141	0.35	0/5670
14	1F	0.16	0/4441	0.35	1/6044 (0.0%)
14	1G	0.17	0/4441	0.40	0/6044
17	1a	0.16	0/3453	0.33	0/4673
17	1c	0.17	0/3453	0.32	0/4673
17	1e	0.19	0/3453	0.35	0/4673
17	1g	0.19	0/3453	0.34	0/4673

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	2a	0.22	0/3453	0.37	0/4673
17	2c	0.16	0/3453	0.32	0/4673
17	2e	0.16	0/3453	0.31	0/4673
17	2g	0.17	0/3453	0.31	0/4673
17	3a	0.15	0/3453	0.32	0/4673
17	3c	0.17	0/3453	0.32	0/4673
17	3e	0.16	0/3453	0.32	0/4673
17	3g	0.17	0/3453	0.33	0/4673
17	4a	0.15	0/3453	0.32	0/4673
17	4c	0.15	0/3453	0.31	0/4673
17	4e	0.16	0/3453	0.32	0/4673
17	4g	0.16	0/3453	0.32	0/4673
17	5a	0.14	0/3453	0.32	0/4673
17	5c	0.15	0/3453	0.31	0/4673
17	5e	0.15	0/3453	0.33	0/4673
17	5g	0.19	0/3453	0.34	0/4673
17	6a	0.15	0/3453	0.36	0/4673
17	6c	0.14	0/3453	0.33	0/4673
17	6e	0.15	0/3453	0.32	0/4673
17	6g	0.15	0/3453	0.33	0/4673
17	7a	0.14	0/3453	0.32	0/4673
17	7c	0.15	0/3453	0.31	0/4673
17	7e	0.14	0/3453	0.32	0/4673
17	7g	0.15	0/3453	0.33	0/4673
17	8a	0.15	0/3453	0.32	0/4673
17	8c	0.16	0/3453	0.33	0/4673
17	8e	0.16	0/3453	0.32	0/4673
17	8g	0.16	0/3453	0.33	0/4673
17	9a	0.24	0/3453	0.38	0/4673
17	9c	0.22	0/3453	0.35	0/4673
17	9e	0.22	0/3453	0.39	0/4673
17	9g	0.23	0/3453	0.36	0/4673
17	Aa	0.16	0/3453	0.35	0/4673
17	Ac	0.16	0/3453	0.34	0/4673
17	Ae	0.16	0/3453	0.33	0/4673
17	Ag	0.17	0/3453	0.34	0/4673
17	Ba	0.17	0/3453	0.37	0/4673
17	Bc	0.24	0/3453	0.39	0/4673
17	Be	0.17	0/3453	0.34	0/4673
17	Bg	0.23	0/3453	0.37	0/4673
17	Ca	0.16	0/3453	0.32	0/4673
17	Cc	0.20	0/3453	0.36	0/4673
17	Ce	0.19	0/3453	0.34	0/4673

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	Cg	0.19	0/3453	0.35	0/4673
17	Da	0.17	0/3453	0.34	0/4673
17	Dc	0.18	0/3453	0.33	0/4673
17	De	0.19	0/3453	0.34	0/4673
17	Dg	0.19	0/3453	0.35	0/4673
18	1b	0.14	0/3410	0.32	0/4623
18	1d	0.17	0/3410	0.33	0/4623
18	1f	0.17	0/3410	0.33	0/4623
18	1h	0.16	0/3410	0.32	0/4623
18	2b	0.15	0/3410	0.31	0/4623
18	2d	0.16	0/3410	0.32	0/4623
18	2f	0.16	0/3410	0.32	0/4623
18	2h	0.16	0/3410	0.31	0/4623
18	3b	0.16	0/3410	0.32	0/4623
18	3d	0.17	0/3410	0.33	0/4623
18	3f	0.15	0/3410	0.33	0/4623
18	3h	0.16	0/3410	0.32	0/4623
18	4b	0.14	0/3410	0.31	0/4623
18	4d	0.15	0/3410	0.33	0/4623
18	4f	0.14	0/3410	0.32	0/4623
18	4h	0.15	0/3410	0.33	0/4623
18	5b	0.14	0/3410	0.33	0/4623
18	5d	0.14	0/3410	0.34	0/4623
18	5f	0.23	0/3410	0.39	0/4623
18	5h	0.15	0/3410	0.34	0/4623
18	6b	0.14	0/3410	0.31	0/4623
18	6d	0.24	0/3410	0.40	0/4623
18	6f	0.16	0/3410	0.33	0/4623
18	6h	0.22	0/3410	0.36	0/4623
18	7b	0.14	0/3410	0.32	0/4623
18	7d	0.23	0/3410	0.37	0/4623
18	7f	0.14	0/3410	0.32	0/4623
18	7h	0.16	0/3410	0.34	0/4623
18	8b	0.15	0/3410	0.32	0/4623
18	8d	0.22	0/3410	0.38	0/4623
18	8f	0.17	0/3410	0.35	0/4623
18	8h	0.15	0/3410	0.31	0/4623
18	9b	0.21	0/3410	0.35	0/4623
18	9d	0.24	0/3410	0.40	0/4623
18	9f	0.22	0/3410	0.36	0/4623
18	9h	0.23	0/3410	0.40	0/4623
18	Ab	0.15	0/3410	0.32	0/4623
18	Ad	0.16	0/3410	0.33	0/4623

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
18	Af	0.16	0/3410	0.32	0/4623
18	Ah	0.15	0/3410	0.32	0/4623
18	Bb	0.17	0/3410	0.33	0/4623
18	Bd	0.21	0/3410	0.38	0/4623
18	Bf	0.19	0/3410	0.37	0/4623
18	Bh	0.21	0/3410	0.37	0/4623
18	Cb	0.17	0/3410	0.33	0/4623
18	Cd	0.18	0/3410	0.33	0/4623
18	Cf	0.18	0/3410	0.34	0/4623
18	Ch	0.19	0/3410	0.34	0/4623
18	Db	0.16	0/3410	0.33	0/4623
18	Dd	0.18	0/3410	0.34	0/4623
18	Df	0.18	0/3410	0.33	0/4623
18	Dh	0.17	0/3410	0.32	0/4623
All	All	0.17	0/444960	0.34	7/603080 (0.0%)

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	0X	408	PRO	N-CA-CB	7.43	111.06	103.25
12	0Z	408	PRO	N-CA-CB	7.42	111.04	103.25
4	0K	220	PRO	N-CA-CB	7.02	110.25	103.51
4	0L	220	PRO	N-CA-CB	6.32	110.22	103.52
7	0S	497	ARG	CB-CA-C	-6.32	109.27	116.54
7	0Q	497	ARG	CB-CA-C	-5.58	110.13	116.54
14	1F	942	MET	CB-CG-SD	-5.10	97.40	112.70

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0A	3656	0	3589	120	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0B	3656	0	3589	127	0
1	0C	3726	0	3671	139	0
1	0D	3726	0	3671	149	0
2	0E	1008	0	980	31	0
2	0F	1008	0	980	22	0
2	0G	1008	0	980	33	0
2	0H	1008	0	980	21	0
3	0I	3321	0	3319	135	0
3	0J	3321	0	3319	145	0
4	0K	1216	0	1136	50	0
4	0L	1216	0	1136	31	0
5	0M	4037	0	3964	117	0
5	0N	4037	0	3964	91	0
6	0O	1481	0	1456	29	0
6	0P	1481	0	1456	43	0
7	0Q	4537	0	4426	124	0
7	0S	4537	0	4426	130	0
8	0T	845	0	185	13	0
9	0U	850	0	188	11	0
10	0V	800	0	171	18	0
11	0W	195	0	42	3	0
12	0X	3098	0	2933	115	0
12	0Y	2903	0	2675	86	0
12	0Z	3098	0	2933	98	0
12	1A	2903	0	2675	80	0
13	1B	4771	0	4774	170	0
13	1C	4771	0	4774	166	0
14	1D	4079	0	3607	97	0
14	1E	4079	0	3607	84	0
14	1F	4370	0	4195	97	0
14	1G	4370	0	4195	126	0
15	1H	440	0	97	7	0
16	1L	870	0	195	10	0
16	1M	870	0	195	23	0
17	1a	3379	0	3265	94	0
17	1c	3379	0	3265	74	0
17	1e	3379	0	3265	96	0
17	1g	3379	0	3265	97	0
17	2a	3379	0	3265	77	0
17	2c	3379	0	3265	97	0
17	2e	3379	0	3265	80	0
17	2g	3379	0	3265	93	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
17	3a	3379	0	3265	76	0
17	3c	3379	0	3265	101	0
17	3e	3379	0	3265	78	0
17	3g	3379	0	3265	87	0
17	4a	3379	0	3265	79	0
17	4c	3379	0	3265	71	0
17	4e	3379	0	3265	91	0
17	4g	3379	0	3265	97	0
17	5a	3379	0	3265	93	0
17	5c	3379	0	3265	98	0
17	5e	3379	0	3265	96	0
17	5g	3379	0	3265	90	0
17	6a	3379	0	3265	95	0
17	6c	3379	0	3265	103	0
17	6e	3379	0	3265	91	0
17	6g	3379	0	3265	90	0
17	7a	3379	0	3265	91	0
17	7c	3379	0	3265	89	0
17	7e	3379	0	3265	82	0
17	7g	3379	0	3265	88	0
17	8a	3379	0	3265	78	0
17	8c	3379	0	3265	108	0
17	8e	3379	0	3265	93	0
17	8g	3379	0	3265	101	0
17	9a	3379	0	3265	95	0
17	9c	3379	0	3265	85	0
17	9e	3379	0	3265	108	0
17	9g	3379	0	3265	94	0
17	Aa	3379	0	3265	76	0
17	Ac	3379	0	3265	97	0
17	Ae	3379	0	3265	84	0
17	Ag	3379	0	3265	101	0
17	Ba	3379	0	3265	99	0
17	Bc	3379	0	3265	129	0
17	Be	3379	0	3265	89	0
17	Bg	3379	0	3265	125	0
17	Ca	3379	0	3265	69	0
17	Cc	3379	0	3265	101	0
17	Ce	3379	0	3265	108	0
17	Cg	3379	0	3265	101	0
17	Da	3379	0	3265	95	0
17	Dc	3379	0	3265	83	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
17	De	3379	0	3265	92	0
17	Dg	3379	0	3265	104	0
18	1b	3339	0	3277	67	0
18	1d	3339	0	3277	83	0
18	1f	3339	0	3277	70	0
18	1h	3339	0	3277	84	0
18	2b	3339	0	3277	73	0
18	2d	3339	0	3277	79	0
18	2f	3339	0	3277	80	0
18	2h	3339	0	3277	80	0
18	3b	3339	0	3277	66	0
18	3d	3339	0	3277	92	0
18	3f	3339	0	3277	81	0
18	3h	3339	0	3277	86	0
18	4b	3339	0	3277	76	0
18	4d	3339	0	3277	78	0
18	4f	3339	0	3277	79	0
18	4h	3339	0	3277	86	0
18	5b	3339	0	3277	76	0
18	5d	3339	0	3277	80	0
18	5f	3339	0	3277	88	0
18	5h	3339	0	3277	80	0
18	6b	3339	0	3277	77	0
18	6d	3339	0	3277	91	0
18	6f	3339	0	3277	91	0
18	6h	3339	0	3277	87	0
18	7b	3339	0	3277	73	0
18	7d	3339	0	3277	79	0
18	7f	3339	0	3277	77	0
18	7h	3339	0	3277	89	0
18	8b	3339	0	3277	66	0
18	8d	3339	0	3277	84	0
18	8f	3339	0	3277	95	0
18	8h	3339	0	3277	84	0
18	9b	3339	0	3277	68	0
18	9d	3339	0	3277	121	0
18	9f	3339	0	3277	74	0
18	9h	3339	0	3277	105	0
18	Ab	3339	0	3277	80	0
18	Ad	3339	0	3277	98	0
18	Af	3339	0	3277	84	0
18	Ah	3339	0	3277	80	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
18	Bb	3339	0	3277	79	0
18	Bd	3339	0	3277	110	0
18	Bf	3339	0	3277	107	0
18	Bh	3339	0	3277	109	0
18	Cb	3339	0	3277	90	0
18	Cd	3339	0	3277	77	0
18	Cf	3339	0	3277	78	0
18	Ch	3339	0	3277	97	0
18	Db	3339	0	3277	71	0
18	Dd	3339	0	3277	80	0
18	Df	3339	0	3277	81	0
18	Dh	3339	0	3277	85	0
19	0X	27	0	12	2	0
19	0Y	27	0	12	4	0
19	0Z	27	0	12	2	0
19	1A	27	0	12	1	0
20	1a	28	0	12	2	0
20	1c	28	0	12	1	0
20	1e	28	0	12	0	0
20	1g	28	0	12	3	0
20	2a	28	0	12	1	0
20	2c	28	0	12	1	0
20	2e	28	0	12	0	0
20	2g	28	0	12	0	0
20	3a	28	0	12	0	0
20	3c	28	0	12	1	0
20	3e	28	0	12	0	0
20	3g	28	0	12	0	0
20	4a	28	0	12	1	0
20	4c	28	0	12	1	0
20	4e	28	0	12	0	0
20	4g	28	0	12	0	0
20	5a	28	0	12	2	0
20	5c	28	0	12	1	0
20	5e	28	0	12	1	0
20	5g	28	0	12	1	0
20	6a	28	0	12	3	0
20	6c	28	0	12	1	0
20	6e	28	0	12	2	0
20	6g	28	0	12	1	0
20	7a	28	0	12	1	0
20	7c	28	0	12	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
20	7e	28	0	12	2	0
20	7g	28	0	12	1	0
20	8a	28	0	12	2	0
20	8c	28	0	12	1	0
20	8e	28	0	12	1	0
20	8g	28	0	12	1	0
20	9a	28	0	12	0	0
20	9c	28	0	12	3	0
20	9e	28	0	12	1	0
20	9g	28	0	12	0	0
20	Aa	28	0	12	1	0
20	Ac	28	0	12	0	0
20	Ae	28	0	12	0	0
20	Ag	28	0	12	0	0
20	Ba	28	0	12	0	0
20	Bc	28	0	12	0	0
20	Be	28	0	12	0	0
20	Bg	28	0	12	0	0
20	Ca	28	0	12	1	0
20	Cc	28	0	12	2	0
20	Ce	28	0	12	1	0
20	Cg	28	0	12	1	0
20	Da	28	0	12	2	0
20	Dc	28	0	12	0	0
20	De	28	0	12	1	0
20	Dg	28	0	12	1	0
21	1b	32	0	12	3	0
21	1d	32	0	12	4	0
21	1f	32	0	12	3	0
21	1h	32	0	12	2	0
21	2b	32	0	12	2	0
21	2d	32	0	12	5	0
21	2f	32	0	12	4	0
21	2h	32	0	12	3	0
21	3b	32	0	12	4	0
21	3d	32	0	12	5	0
21	3f	32	0	12	4	0
21	3h	32	0	12	2	0
21	4b	32	0	12	4	0
21	4d	32	0	12	2	0
21	4f	32	0	12	2	0
21	4h	32	0	12	2	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
21	5b	32	0	12	2	0
21	5d	32	0	12	3	0
21	5f	32	0	12	1	0
21	5h	32	0	12	3	0
21	6b	32	0	12	6	0
21	6d	32	0	12	6	0
21	6f	32	0	12	3	0
21	6h	32	0	12	4	0
21	7b	32	0	12	4	0
21	7d	32	0	12	3	0
21	7f	32	0	12	3	0
21	7h	32	0	12	2	0
21	8b	32	0	12	3	0
21	8d	32	0	12	4	0
21	8f	32	0	12	6	0
21	8h	32	0	12	4	0
21	9b	32	0	12	3	0
21	9d	32	0	12	4	0
21	9f	32	0	12	4	0
21	9h	32	0	12	4	0
21	Ab	32	0	12	2	0
21	Ad	32	0	12	1	0
21	Af	32	0	12	2	0
21	Ah	32	0	12	3	0
21	Bb	32	0	12	4	0
21	Bd	32	0	12	3	0
21	Bf	32	0	12	4	0
21	Bh	32	0	12	2	0
21	Cb	32	0	12	5	0
21	Cd	32	0	12	5	0
21	Cf	32	0	12	4	0
21	Ch	32	0	12	4	0
21	Db	32	0	12	5	0
21	Dd	32	0	12	3	0
21	Df	32	0	12	4	0
21	Dh	32	0	12	3	0
All	All	443856	0	425963	10696	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 12.

All (10696) 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)
13:1B:1659:ALA:HB2	16:1M:22:UNK:CB	1.25	1.57
13:1B:1659:ALA:CB	16:1M:22:UNK:CB	2.19	1.20
13:1B:1650:GLU:OE1	16:1M:30:UNK:O	1.69	1.10
17:5e:220:PRO:HG2	18:5f:326:LYS:HE2	1.39	1.00
18:Bh:215:ARG:HH22	18:Bh:300:SER:HA	1.27	0.97
7:0S:460:MET:HE2	7:0S:495:ARG:HH12	1.30	0.94
17:4e:220:PRO:HG2	18:4f:326:LYS:HE2	1.50	0.93
12:1A:42:GLY:H	18:9d:263:PRO:HG2	1.32	0.93
12:0Y:42:GLY:H	18:9h:263:PRO:HG2	1.33	0.93
7:0Q:488:LEU:HB3	7:0Q:498:THR:HG21	1.53	0.91
17:Bc:220:PRO:HD2	18:Bd:326:LYS:HD3	1.49	0.91
17:9g:317:PHE:HB3	17:9g:321:MET:HE1	1.53	0.90
18:9b:234:VAL:HG21	18:9b:302:MET:HE1	1.55	0.89
17:9c:391:ARG:NH2	18:9d:437:ALA:O	2.06	0.88
17:5a:317:PHE:HB3	17:5a:321:MET:HE1	1.54	0.88
12:0Y:106:THR:H	12:0Y:111:ARG:HG2	1.36	0.88
12:1A:106:THR:H	12:1A:111:ARG:HG2	1.37	0.88
17:3c:189:VAL:HB	17:3c:415:MET:HE2	1.56	0.88
17:6c:152:ILE:HG12	17:6c:164:MET:HE2	1.56	0.87
17:2c:220:PRO:HD2	18:2d:326:LYS:HD2	1.57	0.87
1:0D:206:MET:HG3	18:Ch:396:ASP:HB2	1.56	0.86
18:Bf:255:PHE:O	18:Bf:259:LEU:HB2	1.74	0.86
18:Ad:324:VAL:HG11	18:Ad:326:LYS:HZ3	1.40	0.86
5:0N:646:VAL:HG11	17:1e:320:ARG:HD3	1.56	0.86
3:0J:131:ILE:HG12	17:Bc:424:GLN:HG2	1.58	0.86
14:1G:551:GLY:H	14:1G:576:ARG:HH22	1.24	0.86
17:4g:220:PRO:HG2	18:4h:326:LYS:HE2	1.57	0.85
17:9g:391:ARG:NH2	18:9h:437:ALA:O	2.10	0.85
12:0Y:78:SER:O	12:0Y:82:GLY:HA3	1.77	0.85
17:4a:317:PHE:HB3	17:4a:321:MET:HE1	1.57	0.85
17:6e:317:PHE:HB3	17:6e:321:MET:HE1	1.56	0.84
17:3g:66:MET:HG3	17:3g:147:MET:HE3	1.57	0.83
18:8d:104:ALA:HB2	18:8d:413:MET:HE2	1.57	0.83
17:9a:346:PRO:HD2	18:9h:398:MET:HE3	1.60	0.83
17:9e:73:MET:HE2	17:9e:92:PHE:HB3	1.60	0.83
18:4d:234:VAL:HG21	18:4d:302:MET:HE1	1.60	0.83
17:Ag:317:PHE:HB3	17:Ag:321:MET:HE1	1.59	0.83
18:Dd:234:VAL:HG21	18:Dd:302:MET:HE1	1.59	0.83
17:Dc:317:PHE:HB3	17:Dc:321:MET:HE1	1.60	0.83
18:7b:2:ARG:HA	18:7b:133:GLN:HE22	1.43	0.83
18:9d:27:GLU:OE1	18:9d:243:ARG:NH1	2.12	0.83
12:1A:78:SER:O	12:1A:82:GLY:HA3	1.78	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1g:317:PHE:HB3	17:1g:321:MET:HE1	1.60	0.83
17:Cc:317:PHE:HB3	17:Cc:321:MET:HE1	1.60	0.82
9:0U:25:UNK:HA	17:5c:332:ASN:HD21	1.41	0.82
17:1c:220:PRO:HD2	18:1d:326:LYS:HD3	1.61	0.82
17:1e:198:GLU:HG3	17:1e:266:PHE:HE2	1.45	0.82
1:0B:430:LEU:O	2:0F:62:LYS:NZ	2.12	0.82
17:1a:317:PHE:HB3	17:1a:321:MET:HE1	1.60	0.82
17:9e:98:GLY:HA2	18:9f:254:GLU:HG3	1.58	0.82
17:Ag:220:PRO:HG2	18:Ah:326:LYS:HE2	1.62	0.82
17:Da:189:VAL:HB	17:Da:415:MET:HE2	1.62	0.82
3:0J:318:MET:HB3	18:Bd:159:VAL:HG21	1.60	0.82
14:1F:632:ALA:H	14:1F:638:PRO:HB2	1.45	0.82
17:7a:330:MET:HE1	17:7a:351:SER:HB2	1.62	0.82
17:Ca:165:LEU:HD11	17:Ca:200:MET:HE2	1.62	0.82
18:Cb:301:MET:HG3	18:Cb:303:VAL:H	1.42	0.82
14:1G:772:GLU:HG2	14:1G:802:LEU:HD21	1.61	0.82
13:1B:1676:ARG:HH12	18:Bf:422:ARG:HG3	1.45	0.82
14:1G:632:ALA:H	14:1G:638:PRO:HB2	1.45	0.81
3:0I:311:ARG:HH22	18:Bh:193:SER:HA	1.43	0.81
7:0Q:240:GLY:H	17:2g:33:THR:HG21	1.45	0.81
14:1G:1028:LEU:HB3	14:1G:1032:ARG:HH12	1.44	0.81
17:3e:220:PRO:HD2	18:3f:326:LYS:HD3	1.61	0.81
17:5c:152:ILE:HG12	17:5c:164:MET:HE2	1.63	0.81
17:Bg:94:GLN:NE2	18:Bh:1:MET:O	2.14	0.81
17:3a:86:ARG:HG2	17:4a:281:TYR:HB3	1.63	0.81
17:3a:131:GLN:O	17:3a:163:MET:HB2	1.81	0.81
18:5b:325:PRO:HA	18:5b:328:VAL:HG12	1.62	0.81
18:Df:234:VAL:HG21	18:Df:302:MET:HE1	1.63	0.81
18:2b:104:ALA:HB2	18:2b:413:MET:HE2	1.63	0.80
18:2b:279:GLU:O	18:2b:283:HIS:HE1	1.64	0.80
17:4e:317:PHE:HB3	17:4e:321:MET:HE1	1.61	0.80
17:5e:152:ILE:HG12	17:5e:164:MET:HE2	1.63	0.80
18:Ch:255:PHE:O	18:Ch:259:LEU:HB2	1.81	0.80
17:6a:317:PHE:HB3	17:6a:321:MET:HE1	1.61	0.80
8:0T:143:UNK:HA	18:Ch:123:ARG:HD2	1.62	0.80
17:Dc:30:ILE:HD11	17:Dc:47:ILE:HD11	1.64	0.80
18:Dh:255:PHE:O	18:Dh:259:LEU:HB2	1.82	0.80
17:9c:30:ILE:HD11	17:9c:47:ILE:HD11	1.64	0.80
5:0N:413:THR:O	17:Dc:320:ARG:NH2	2.16	0.79
14:1G:769:LEU:HG	14:1G:771:LEU:H	1.48	0.79
17:Ae:330:MET:HE2	17:Ae:349:VAL:HG13	1.64	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0Q:329:LEU:HD13	7:0Q:610:GLY:HA2	1.65	0.79
18:Bd:12:ALA:HB3	18:Bd:140:ALA:HB2	1.63	0.79
18:Bf:209:ILE:HG12	18:Bf:302:MET:HE2	1.64	0.79
14:1F:402:LEU:HB3	14:1F:406:ILE:HG21	1.63	0.79
17:4c:220:PRO:HD2	18:4d:326:LYS:HD2	1.63	0.79
17:7c:100:ASN:HB2	17:7c:397:TRP:CH2	2.18	0.79
18:8d:336:LYS:NZ	18:8d:348:PRO:O	2.15	0.79
14:1D:850:LEU:HG	14:1D:854:GLN:HE22	1.46	0.78
18:7d:251:ASP:HB2	18:7d:254:GLU:HG3	1.65	0.78
18:Cd:123:ARG:NH2	18:Dd:297:GLU:OE2	2.16	0.78
17:Dg:60:VAL:HG21	17:Dg:86:ARG:HG2	1.63	0.78
17:Ac:220:PRO:HD2	18:Ad:326:LYS:HD3	1.66	0.78
1:0D:508:GLN:HB3	1:0D:520:LEU:HD11	1.65	0.78
17:6a:165:LEU:HD11	17:6a:200:MET:HE1	1.64	0.78
17:8e:218:THR:O	18:8f:326:LYS:NZ	2.13	0.78
5:0M:628:ILE:HD11	17:1a:228:LEU:HD12	1.65	0.78
17:1g:201:VAL:HG11	17:1g:377:MET:HE1	1.64	0.78
17:3a:330:MET:HE2	17:3a:349:VAL:HG13	1.63	0.78
17:6g:165:LEU:HD11	17:6g:200:MET:HE1	1.65	0.78
18:Bh:12:ALA:HB3	18:Bh:140:ALA:HB2	1.64	0.78
17:7a:30:ILE:HD11	17:7a:47:ILE:HD11	1.66	0.78
17:8g:66:MET:HE3	17:8g:147:MET:HE3	1.64	0.78
17:Dc:165:LEU:HD11	17:Dc:200:MET:HE1	1.65	0.78
17:7e:330:MET:HE1	17:7e:351:SER:HB2	1.66	0.78
3:0I:318:MET:HB3	18:Bh:159:VAL:HG21	1.64	0.77
5:0N:240:ARG:NH2	17:Bc:40:SER:OG	2.17	0.77
17:5g:201:VAL:HG11	17:5g:377:MET:HE1	1.67	0.77
17:5g:317:PHE:HB3	17:5g:321:MET:HE1	1.66	0.77
18:Bf:90:GLU:OE1	18:Bf:121:ARG:NE	2.17	0.77
17:9g:86:ARG:NH1	17:Ag:281:TYR:HB3	1.99	0.77
1:0A:161:MET:HE2	17:Ba:424:GLN:HB3	1.64	0.77
18:6f:147:SER:HB2	18:6f:190:SER:HB3	1.66	0.77
17:1c:397:TRP:HH2	18:1d:260:VAL:HB	1.49	0.77
18:4d:251:ASP:HB2	18:4d:254:GLU:HG3	1.64	0.77
14:1G:400:ARG:HG3	14:1G:402:LEU:H	1.50	0.77
18:7h:398:MET:HE3	18:7h:403:ALA:HB3	1.67	0.77
1:0C:508:GLN:HB3	1:0C:520:LEU:HD11	1.65	0.77
12:0X:99:PHE:HA	12:0X:103:GLY:HA3	1.65	0.77
12:0X:278:LEU:HG	12:0X:285:VAL:HG21	1.65	0.77
14:1F:1032:ARG:NH1	14:1F:1045:GLU:OE2	2.18	0.77
18:6d:147:SER:HB2	18:6d:190:SER:HB3	1.67	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:0Y:161:LEU:HA	12:0Y:174:ARG:O	1.85	0.77
18:2d:90:GLU:OE1	18:2d:121:ARG:NE	2.18	0.77
18:Ad:64:ARG:NH1	18:Ad:129:CYS:SG	2.58	0.77
18:Bh:90:GLU:OE1	18:Bh:121:ARG:NE	2.18	0.77
18:1d:90:GLU:OE1	18:1d:121:ARG:NE	2.17	0.77
17:Ag:30:ILE:HD11	17:Ag:47:ILE:HD11	1.67	0.77
18:3d:90:GLU:OE1	18:3d:121:ARG:NE	2.17	0.76
17:9e:236:ILE:HG23	17:9e:237:THR:HG23	1.66	0.76
7:0S:329:LEU:HD13	7:0S:610:GLY:HA2	1.66	0.76
18:2d:64:ARG:NH1	18:2d:129:CYS:SG	2.58	0.76
1:0D:346:ASP:OD2	2:0G:152:ARG:NH2	2.18	0.76
6:0P:135:ARG:NH2	20:Cc:501:GDP:N7	2.32	0.76
17:1g:198:GLU:HG3	17:1g:266:PHE:HE2	1.50	0.76
18:2h:234:VAL:HG21	18:2h:302:MET:HE1	1.67	0.76
14:1F:772:GLU:HG2	14:1F:802:LEU:HD21	1.66	0.76
14:1G:402:LEU:HB3	14:1G:406:ILE:HG21	1.67	0.76
17:2e:207:LEU:HD13	17:2e:225:LEU:HB3	1.65	0.76
18:6f:398:MET:HE1	17:6g:345:ILE:HA	1.67	0.76
18:7d:301:MET:HG3	18:7d:303:VAL:H	1.51	0.76
17:8g:382:SER:OG	17:8g:415:MET:SD	2.42	0.76
17:Ae:204:ASN:HA	17:Ae:207:LEU:HD12	1.67	0.76
17:Ba:378:PHE:HD1	17:Ba:415:MET:HE3	1.49	0.76
3:0I:292:MET:HE2	18:Bh:402:ARG:HD3	1.66	0.76
18:6d:209:ILE:HG12	18:6d:302:MET:HG2	1.68	0.76
17:9g:86:ARG:NH2	17:Ag:281:TYR:O	2.18	0.76
18:Bb:90:GLU:OE1	18:Bb:121:ARG:NE	2.18	0.76
3:0J:150:GLN:HG2	3:0J:153:LYS:HE3	1.67	0.76
14:1F:547:LYS:HG3	14:1F:548:GLN:HG2	1.67	0.76
5:0M:369:VAL:HA	5:0M:392:MET:HE1	1.68	0.76
5:0M:372:MET:HE3	5:0M:392:MET:HE2	1.67	0.76
12:0Z:300:LEU:H	12:0Z:306:THR:HG21	1.50	0.76
12:1A:161:LEU:HA	12:1A:174:ARG:O	1.86	0.76
13:1C:1487:MET:O	13:1C:1519:LYS:NZ	2.18	0.76
17:7a:236:ILE:HG23	17:7a:237:THR:HG23	1.67	0.76
5:0M:240:ARG:NH1	17:Bg:40:SER:OG	2.19	0.75
17:Aa:143:THR:OG1	17:Aa:147:MET:SD	2.44	0.75
17:Ac:30:ILE:HD11	17:Ac:47:ILE:HD11	1.67	0.75
18:2f:90:GLU:OE1	18:2f:121:ARG:NE	2.17	0.75
17:3g:378:PHE:HD1	17:3g:415:MET:HE3	1.52	0.75
1:0A:341:LEU:HB3	1:0A:355:MET:HE3	1.66	0.75
6:0O:189:THR:HG22	17:Bg:361:LEU:HG	1.68	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:0Z:65:GLU:HG3	12:0Z:116:ARG:HH22	1.49	0.75
17:Bc:236:ILE:HG23	17:Bc:237:THR:HG23	1.68	0.75
18:Bf:64:ARG:NH1	18:Bf:129:CYS:SG	2.59	0.75
12:0X:65:GLU:HG3	12:0X:116:ARG:HH22	1.50	0.75
17:9g:236:ILE:HG23	17:9g:237:THR:HG23	1.66	0.75
18:1f:255:PHE:O	18:1f:259:LEU:HB2	1.87	0.75
18:Df:90:GLU:OE1	18:Df:121:ARG:NE	2.19	0.75
17:6a:152:ILE:HG12	17:6a:164:MET:HE2	1.65	0.75
17:Ba:207:LEU:HB3	17:Ba:225:LEU:HD22	1.69	0.75
18:Bb:336:LYS:NZ	18:Bb:348:PRO:O	2.20	0.75
18:Df:12:ALA:HB3	18:Df:140:ALA:HB2	1.67	0.75
1:0B:177:LEU:HD11	1:0C:180:LEU:HD13	1.69	0.75
18:2h:64:ARG:NH1	18:2h:129:CYS:SG	2.60	0.75
18:7f:398:MET:HE1	17:7g:345:ILE:HG12	1.69	0.75
17:Ag:289:LEU:HD22	17:Ag:363:MET:HE2	1.67	0.75
18:Cb:64:ARG:NH1	18:Cb:129:CYS:SG	2.60	0.75
2:0F:70:ASN:HA	2:0F:100:LYS:HG2	1.69	0.75
17:1a:236:ILE:HG23	17:1a:237:THR:HG23	1.68	0.75
17:5e:236:ILE:HG23	17:5e:237:THR:HG23	1.67	0.75
17:7c:98:GLY:HA2	18:7d:254:GLU:HG2	1.67	0.75
18:8b:398:MET:HE2	17:8c:346:PRO:HD2	1.69	0.75
18:8h:64:ARG:NH1	18:8h:129:CYS:SG	2.60	0.75
17:Be:236:ILE:HG23	17:Be:237:THR:HG23	1.68	0.75
18:Dd:90:GLU:OE1	18:Dd:121:ARG:NE	2.19	0.75
18:3f:234:VAL:HG21	18:3f:302:MET:HE1	1.68	0.75
17:4c:98:GLY:HA2	18:4d:254:GLU:HG2	1.69	0.75
17:6g:271:THR:OG1	17:6g:293:MET:SD	2.45	0.75
7:0Q:46:ASN:ND2	7:0Q:321:ILE:O	2.20	0.74
13:1C:1581:ILE:HG12	13:1C:1583:PRO:HD2	1.69	0.74
17:2e:236:ILE:HG23	17:2e:237:THR:HG23	1.69	0.74
18:3b:90:GLU:OE1	18:3b:121:ARG:NE	2.19	0.74
5:0M:240:ARG:HH12	17:Bg:40:SER:HG	1.32	0.74
13:1C:1242:MET:SD	13:1C:1245:ARG:NH1	2.59	0.74
18:7f:267:PHE:HB2	18:7f:384:ILE:HD12	1.69	0.74
17:Cc:198:GLU:HG3	17:Cc:266:PHE:HE2	1.50	0.74
18:Cd:90:GLU:OE1	18:Cd:121:ARG:NE	2.20	0.74
1:0A:537:HIS:HB3	1:0A:556:ASP:HB2	1.69	0.74
14:1E:1009:GLN:O	14:1E:1013:GLN:NE2	2.20	0.74
18:Db:90:GLU:OE1	18:Db:121:ARG:NE	2.20	0.74
1:0D:328:SER:HA	1:0D:600:ASN:HA	1.69	0.74
2:0H:70:ASN:HA	2:0H:100:LYS:HG2	1.70	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4e:236:ILE:HG23	17:4e:237:THR:HG23	1.70	0.74
18:8h:267:PHE:HB2	18:8h:384:ILE:HD12	1.68	0.74
17:Ce:198:GLU:HG3	17:Ce:266:PHE:HE2	1.51	0.74
3:0J:151:GLN:HA	3:0J:154:TRP:HD1	1.52	0.74
17:3c:73:MET:HE2	17:3c:92:PHE:HB3	1.68	0.74
17:7c:236:ILE:HG23	17:7c:237:THR:HG23	1.70	0.74
17:Ae:236:ILE:HG23	17:Ae:237:THR:HG23	1.68	0.74
17:1c:236:ILE:HG23	17:1c:237:THR:HG23	1.67	0.74
17:6a:236:ILE:HG23	17:6a:237:THR:HG23	1.69	0.74
17:6e:236:ILE:HG23	17:6e:237:THR:HG23	1.68	0.74
18:6h:147:SER:HB2	18:6h:190:SER:HB3	1.69	0.74
18:Cf:90:GLU:OE1	18:Cf:121:ARG:NE	2.20	0.74
3:0J:217:ARG:H	3:0J:232:ILE:HG12	1.52	0.74
12:0X:169:SER:OG	12:0X:342:ASN:ND2	2.21	0.74
17:1e:236:ILE:HD12	17:1e:368:ILE:HD11	1.69	0.74
17:6c:86:ARG:HG2	17:7c:281:TYR:HB3	1.67	0.74
17:7g:236:ILE:HG23	17:7g:237:THR:HG23	1.69	0.74
17:1c:198:GLU:HG3	17:1c:266:PHE:HE2	1.52	0.74
17:7e:207:LEU:HB3	17:7e:225:LEU:HD22	1.70	0.74
18:Dd:255:PHE:O	18:Dd:259:LEU:HB2	1.88	0.74
10:0V:67:UNK:O	17:3e:306:ARG:NH1	2.20	0.74
12:0Z:13:ARG:NH1	12:0Z:94:GLY:O	2.21	0.74
12:0Z:47:GLN:NE2	18:9b:434:GLU:OE1	2.20	0.74
14:1D:999:TYR:HB3	14:1D:1008:GLU:HG2	1.68	0.74
18:1f:2:ARG:HB3	18:1f:242:LEU:HD12	1.69	0.74
17:2c:236:ILE:HG23	17:2c:237:THR:HG23	1.69	0.74
17:3g:236:ILE:HG23	17:3g:237:THR:HG23	1.68	0.74
18:4b:90:GLU:OE1	18:4b:121:ARG:NE	2.19	0.74
17:8e:236:ILE:HG23	17:8e:237:THR:HG23	1.68	0.74
17:Dg:236:ILE:HG23	17:Dg:237:THR:HG23	1.70	0.74
1:0A:177:LEU:HD11	1:0D:180:LEU:HD13	1.70	0.73
4:0K:137:LYS:HZ2	13:1B:1219:GLU:HG3	1.53	0.73
12:0Z:99:PHE:HA	12:0Z:103:GLY:HA3	1.69	0.73
17:4a:30:ILE:HD11	17:4a:47:ILE:HD11	1.70	0.73
18:7b:250:VAL:HG21	18:7b:318:MET:HE1	1.69	0.73
17:Da:238:CYS:SG	17:Da:241:ARG:NH2	2.61	0.73
13:1C:1493:LEU:HG	13:1C:1519:LYS:HE2	1.67	0.73
17:2a:236:ILE:HG23	17:2a:237:THR:HG23	1.70	0.73
17:Ba:236:ILE:HG23	17:Ba:237:THR:HG23	1.69	0.73
17:2e:391:ARG:HH11	18:2f:346:TRP:HE3	1.36	0.73
17:6e:152:ILE:HG12	17:6e:164:MET:HE2	1.69	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:7b:325:PRO:HA	18:7b:328:VAL:HG12	1.70	0.73
17:7c:100:ASN:HB3	17:7c:103:LYS:HB2	1.69	0.73
17:8g:52:ASN:OD1	17:8g:62:ARG:NH2	2.21	0.73
7:0S:495:ARG:NH1	7:0S:499:THR:OG1	2.21	0.73
18:4d:12:ALA:HB3	18:4d:140:ALA:HB2	1.71	0.73
18:4f:12:ALA:HB3	18:4f:140:ALA:HB2	1.70	0.73
18:5b:147:SER:HB2	18:5b:190:SER:HB3	1.70	0.73
17:6a:345:ILE:HG12	18:6h:398:MET:HE1	1.69	0.73
17:7c:317:PHE:HB3	17:7c:321:MET:HE1	1.69	0.73
17:Dg:112:LEU:HD23	17:Dg:147:MET:HE1	1.70	0.73
18:1f:267:PHE:HB2	18:1f:384:ILE:HD12	1.70	0.73
18:2b:90:GLU:OE1	18:2b:121:ARG:NE	2.20	0.73
17:5g:236:ILE:HG23	17:5g:237:THR:HG23	1.68	0.73
18:Bf:12:ALA:HB3	18:Bf:140:ALA:HB2	1.71	0.73
3:0I:165:VAL:HG21	18:Bh:434:GLU:HB3	1.69	0.73
18:3h:252:ILE:O	18:3h:256:GLN:NE2	2.19	0.73
18:6b:147:SER:HB2	18:6b:190:SER:HB3	1.70	0.73
18:6h:90:GLU:OE1	18:6h:121:ARG:NE	2.20	0.73
17:9g:375:GLN:NE2	17:9g:423:GLN:OE1	2.22	0.73
7:0S:260:ARG:NH1	17:2c:31:ASP:OD2	2.22	0.73
17:3c:236:ILE:HG23	17:3c:237:THR:HG23	1.71	0.73
17:Ac:60:VAL:HG21	17:Ac:86:ARG:HH21	1.53	0.73
18:Bb:12:ALA:HB3	18:Bb:140:ALA:HB2	1.71	0.73
18:8f:336:LYS:NZ	18:8f:348:PRO:O	2.22	0.73
7:0Q:72:LEU:HD21	7:0Q:83:VAL:HG13	1.69	0.72
12:0X:229:SER:HB3	12:0X:349:LEU:HA	1.70	0.72
17:4a:236:ILE:HG23	17:4a:237:THR:HG23	1.70	0.72
17:8c:165:LEU:HD11	17:8c:200:MET:HE1	1.71	0.72
18:Bd:64:ARG:NH1	18:Bd:129:CYS:SG	2.62	0.72
18:Bf:132:LEU:HB3	18:Bf:164:LYS:HE2	1.71	0.72
6:0P:75:VAL:HG12	6:0P:79:MET:HE2	1.71	0.72
17:2c:30:ILE:HD11	17:2c:47:ILE:HD11	1.71	0.72
17:3e:198:GLU:HG3	17:3e:266:PHE:HE2	1.54	0.72
17:6a:388:MET:HG3	17:6a:393:ALA:HB3	1.71	0.72
17:Dc:236:ILE:HG23	17:Dc:237:THR:HG23	1.71	0.72
1:0C:157:ASP:OD1	1:0C:160:ARG:NH2	2.22	0.72
4:0L:90:ARG:HH12	18:Ch:438:GLU:HB3	1.54	0.72
13:1B:1242:MET:SD	13:1B:1245:ARG:NH1	2.62	0.72
17:7c:172:SER:OG	17:7c:175:VAL:O	2.07	0.72
1:0D:207:MET:HE1	18:Ch:422:ARG:HG3	1.70	0.72
12:0Z:278:LEU:HG	12:0Z:285:VAL:HG21	1.69	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1D:849:ARG:CZ	14:1D:868:PHE:HA	2.19	0.72
17:1a:66:MET:HE2	17:1a:147:MET:HE2	1.70	0.72
17:9a:86:ARG:NH1	17:Aa:281:TYR:HB3	2.03	0.72
17:Aa:321:MET:HE2	17:Aa:363:MET:HE2	1.71	0.72
18:Cf:255:PHE:O	18:Cf:259:LEU:HB2	1.89	0.72
4:0L:218:ARG:HH12	13:1C:1215:GLU:HG2	1.55	0.72
7:0Q:444:LEU:HD21	7:0Q:478:ALA:HB2	1.72	0.72
13:1C:1123:LYS:HB2	13:1C:1498:LEU:HD21	1.72	0.72
18:8d:96:LYS:HA	17:8e:1:MET:HE1	1.71	0.72
17:9g:378:PHE:HD1	17:9g:415:MET:HE3	1.53	0.72
18:Bb:64:ARG:NH1	18:Bb:129:CYS:SG	2.62	0.72
17:Be:73:MET:HE2	17:Be:92:PHE:HB3	1.70	0.72
17:Ca:152:ILE:HG23	17:Ca:164:MET:HE3	1.71	0.72
17:Cc:67:ASP:O	17:Cc:92:PHE:HA	1.87	0.72
3:0J:455:TRP:HD1	3:0J:516:ARG:HH12	1.38	0.72
5:0N:244:ILE:HB	5:0N:280:LEU:HB2	1.71	0.72
13:1B:1648:PHE:HB3	16:1M:32:UNK:CB	2.19	0.72
13:1B:1683:ARG:NH1	18:Bf:434:GLU:OE1	2.22	0.72
18:9h:155:GLU:HG2	18:9h:197:HIS:CE1	2.25	0.72
1:0B:537:HIS:HB3	1:0B:556:ASP:HB2	1.70	0.72
5:0N:360:ASP:O	18:Cb:84:ARG:NH1	2.22	0.72
6:0P:39:ASN:O	6:0P:46:GLN:NE2	2.21	0.72
6:0P:70:ARG:HH22	17:1g:359:LYS:HG2	1.54	0.72
17:2e:198:GLU:HG3	17:2e:266:PHE:HE2	1.55	0.72
18:6f:209:ILE:HG12	18:6f:302:MET:HG2	1.72	0.72
6:0O:162:ASP:OD2	17:Cg:276:ARG:NH2	2.23	0.72
12:0X:109:ALA:O	12:0X:110:HIS:ND1	2.23	0.72
12:1A:247:ARG:HH21	12:1A:324:SER:HB2	1.53	0.72
13:1C:1685:PRO:HG2	13:1C:1688:GLN:HB2	1.72	0.72
18:5f:147:SER:HB2	18:5f:190:SER:HB3	1.72	0.72
17:9a:236:ILE:HG23	17:9a:237:THR:HG23	1.70	0.72
18:Bd:90:GLU:OE1	18:Bd:121:ARG:NE	2.22	0.72
17:Da:236:ILE:HG23	17:Da:237:THR:HG23	1.72	0.72
17:3c:186:THR:HA	17:3c:415:MET:HE1	1.71	0.72
18:4d:64:ARG:NH1	18:4d:129:CYS:SG	2.62	0.72
18:4h:64:ARG:NH1	18:4h:129:CYS:SG	2.63	0.72
17:5c:207:LEU:HB3	17:5c:225:LEU:HD22	1.72	0.72
18:5f:64:ARG:NH1	18:5f:129:CYS:SG	2.63	0.72
17:Ae:220:PRO:HG2	18:Af:326:LYS:HE2	1.72	0.72
18:Bd:250:VAL:HG21	18:Bd:318:MET:HE1	1.72	0.72
17:Dg:30:ILE:HD11	17:Dg:47:ILE:HD11	1.72	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0S:46:ASN:ND2	7:0S:321:ILE:O	2.22	0.72
12:0Z:221:GLU:HG2	12:0Z:233:VAL:HG13	1.72	0.72
17:1a:198:GLU:HG3	17:1a:266:PHE:HE2	1.54	0.72
17:3a:198:GLU:HG3	17:3a:266:PHE:HE2	1.54	0.72
18:7h:267:PHE:HB2	18:7h:384:ILE:HD12	1.72	0.72
17:9a:30:ILE:HD11	17:9a:47:ILE:HD11	1.72	0.72
12:0Z:246:GLU:HG3	12:0Z:248:THR:H	1.55	0.71
17:2g:220:PRO:HD2	18:2h:326:LYS:HD2	1.71	0.71
17:3c:229:ILE:HG22	17:3c:233:MET:HE2	1.71	0.71
17:5e:198:GLU:HG3	17:5e:266:PHE:HE2	1.53	0.71
17:6a:271:THR:OG1	17:6a:293:MET:SD	2.47	0.71
18:6d:206:ASN:OD1	21:6d:501:GTP:N2	2.23	0.71
17:8e:388:MET:HE2	18:8f:348:PRO:HD2	1.71	0.71
18:Bh:132:LEU:HB3	18:Bh:164:LYS:HE2	1.71	0.71
17:Da:30:ILE:HD11	17:Da:47:ILE:HD11	1.70	0.71
1:0B:327:LEU:HD11	2:0F:152:ARG:HB3	1.72	0.71
17:5c:98:GLY:HA2	18:5d:254:GLU:HG2	1.73	0.71
17:Ac:238:CYS:SG	17:Ac:241:ARG:NH2	2.63	0.71
12:0X:221:GLU:HG2	12:0X:233:VAL:HG13	1.73	0.71
18:1f:90:GLU:OE1	18:1f:121:ARG:NE	2.22	0.71
17:9a:20:PHE:HA	17:9a:230:SER:HB2	1.73	0.71
18:Ad:12:ALA:HB3	18:Ad:140:ALA:HB2	1.70	0.71
17:8a:236:ILE:HG23	17:8a:237:THR:HG23	1.70	0.71
17:9e:30:ILE:HD11	17:9e:47:ILE:HD11	1.73	0.71
18:Bf:336:LYS:NZ	18:Bf:348:PRO:O	2.23	0.71
17:Dc:198:GLU:HG3	17:Dc:266:PHE:HE2	1.55	0.71
17:4e:229:ILE:HG22	17:4e:233:MET:HE2	1.72	0.71
17:5e:66:MET:HE3	17:5e:116:VAL:HG21	1.73	0.71
17:9e:286:VAL:HA	17:9e:363:MET:HE1	1.72	0.71
18:Db:12:ALA:HB3	18:Db:140:ALA:HB2	1.71	0.71
17:De:375:GLN:HG3	17:De:419:VAL:HG13	1.72	0.71
12:0X:272:GLU:OE1	12:0X:331:ARG:NH2	2.24	0.71
17:2g:198:GLU:HG3	17:2g:266:PHE:HE2	1.54	0.71
17:9e:86:ARG:NH1	17:Ae:281:TYR:O	2.24	0.71
18:9f:237:SER:HA	18:9f:320:ARG:HD2	1.72	0.71
3:0I:265:LEU:HD21	3:0I:330:LEU:HB3	1.70	0.71
13:1B:1123:LYS:HB2	13:1B:1498:LEU:HD21	1.72	0.71
14:1F:820:THR:HB	14:1F:825:VAL:HG21	1.73	0.71
18:9h:27:GLU:OE1	18:9h:243:ARG:NH1	2.23	0.71
17:Ca:236:ILE:HG23	17:Ca:237:THR:HG23	1.72	0.71
17:Dg:198:GLU:HG3	17:Dg:266:PHE:HE2	1.55	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0S:19:MET:HE2	7:0S:308:VAL:HG13	1.72	0.71
12:0Z:229:SER:HB3	12:0Z:349:LEU:HA	1.72	0.71
18:9d:251:ASP:HB3	18:9d:254:GLU:HG2	1.72	0.71
17:Da:198:GLU:HG3	17:Da:266:PHE:HE2	1.55	0.71
18:Df:255:PHE:O	18:Df:259:LEU:HB2	1.90	0.71
3:0I:225:PHE:HE1	6:0O:166:LYS:HG3	1.56	0.71
12:0X:59:LEU:HD23	12:0X:62:VAL:HG21	1.73	0.71
12:0Z:232:ALA:O	12:0Z:344:SER:N	2.23	0.71
14:1D:545:PRO:HD2	14:1D:579:ALA:HB1	1.72	0.71
14:1G:820:THR:HB	14:1G:825:VAL:HG21	1.71	0.71
17:1g:236:ILE:HG23	17:1g:237:THR:HG23	1.73	0.71
18:2h:90:GLU:OE1	18:2h:121:ARG:NE	2.23	0.71
17:6c:236:ILE:HG23	17:6c:237:THR:HG23	1.72	0.71
18:8b:397:LEU:HD23	17:8c:346:PRO:HD3	1.72	0.71
18:Bf:399:TYR:O	18:Bf:402:ARG:NH1	2.24	0.71
17:Cg:236:ILE:HG23	17:Cg:237:THR:HG23	1.73	0.71
12:0X:300:LEU:H	12:0X:306:THR:HG21	1.56	0.71
17:6g:334:GLN:NE2	17:6g:346:PRO:O	2.24	0.71
17:7c:30:ILE:HD11	17:7c:47:ILE:HD11	1.73	0.71
18:Bd:132:LEU:HB3	18:Bd:164:LYS:HE2	1.71	0.71
18:Db:64:ARG:NH1	18:Db:129:CYS:SG	2.63	0.71
4:0K:137:LYS:NZ	13:1B:1217:TRP:O	2.24	0.70
17:3c:172:SER:OG	17:3c:175:VAL:O	2.09	0.70
17:7e:207:LEU:HD13	17:7e:225:LEU:HB3	1.71	0.70
17:8g:267:MET:HE1	17:8g:305:PRO:HG3	1.71	0.70
17:9e:20:PHE:HA	17:9e:230:SER:HB2	1.73	0.70
18:Cb:90:GLU:OE1	18:Cb:121:ARG:NE	2.23	0.70
18:Df:267:PHE:HB2	18:Df:384:ILE:HD12	1.71	0.70
18:9b:237:SER:HA	18:9b:320:ARG:HD2	1.72	0.70
17:Ag:236:ILE:HG23	17:Ag:237:THR:HG23	1.71	0.70
17:Ca:198:GLU:HG3	17:Ca:266:PHE:HE2	1.55	0.70
18:Cd:325:PRO:HA	18:Cd:328:VAL:HG12	1.72	0.70
18:Dd:12:ALA:HB3	18:Dd:140:ALA:HB2	1.72	0.70
5:0M:244:ILE:HB	5:0M:280:LEU:HB2	1.73	0.70
10:0V:160:UNK:O	17:3a:306:ARG:NH1	2.24	0.70
17:4e:198:GLU:HG3	17:4e:266:PHE:HE2	1.54	0.70
1:0C:327:LEU:HD23	2:0E:152:ARG:HH11	1.55	0.70
3:0J:196:ARG:NH2	3:0J:205:GLU:O	2.25	0.70
6:0P:187:ILE:HD11	17:Bc:227:HIS:HB3	1.73	0.70
18:3b:12:ALA:HB3	18:3b:140:ALA:HB2	1.73	0.70
18:3b:64:ARG:NH1	18:3b:129:CYS:SG	2.64	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:4f:132:LEU:HB3	18:4f:164:LYS:HE2	1.73	0.70
18:6d:268:MET:HE3	18:6d:378:ILE:HG12	1.72	0.70
17:8c:152:ILE:HG12	17:8c:164:MET:HE2	1.71	0.70
17:8g:236:ILE:HG23	17:8g:237:THR:HG23	1.73	0.70
17:9c:238:CYS:SG	17:9c:241:ARG:NH2	2.65	0.70
13:1B:1581:ILE:HG12	13:1B:1583:PRO:HD2	1.72	0.70
13:1C:1588:LEU:HD21	13:1C:1594:LEU:HB2	1.72	0.70
18:1b:64:ARG:NH1	18:1b:129:CYS:SG	2.65	0.70
17:3c:198:GLU:HG3	17:3c:266:PHE:HE2	1.57	0.70
18:6f:325:PRO:HA	18:6f:328:VAL:HG12	1.73	0.70
17:7g:200:MET:HE1	17:7g:266:PHE:HD2	1.55	0.70
17:9g:198:GLU:HG3	17:9g:266:PHE:HE2	1.54	0.70
18:9h:397:LEU:O	18:9h:401:LYS:NZ	2.24	0.70
18:Ah:101:ASN:ND2	21:Ah:501:GTP:O1G	2.25	0.70
12:0Z:169:SER:OG	12:0Z:342:ASN:ND2	2.24	0.70
13:1B:1297:GLN:HG2	13:1B:1335:LEU:HA	1.72	0.70
17:8e:52:ASN:OD1	17:8e:62:ARG:NH2	2.25	0.70
18:Bh:325:PRO:HA	18:Bh:328:VAL:HG12	1.73	0.70
18:4d:96:LYS:HA	17:4e:1:MET:HE3	1.74	0.70
18:5d:251:ASP:HB2	18:5d:254:GLU:HG3	1.72	0.70
17:6c:172:SER:OG	17:6c:175:VAL:O	2.09	0.70
18:7b:64:ARG:NH1	18:7b:129:CYS:SG	2.64	0.70
18:7h:64:ARG:NH1	18:7h:129:CYS:SG	2.65	0.70
2:0G:70:ASN:HD21	2:0G:93:ASN:HA	1.57	0.70
3:0I:212:ARG:NH2	17:Cg:296:ALA:O	2.24	0.70
18:2f:64:ARG:NH1	18:2f:129:CYS:SG	2.65	0.70
17:Ag:66:MET:HE2	17:Ag:147:MET:HB3	1.73	0.70
18:Ah:298:PRO:HA	18:Ah:301:MET:HE1	1.74	0.70
17:De:207:LEU:HB3	17:De:225:LEU:HD22	1.72	0.70
18:Df:251:ASP:HB2	18:Df:254:GLU:HG3	1.74	0.70
3:0I:265:LEU:HD23	3:0I:331:ARG:HH21	1.55	0.70
3:0J:318:MET:SD	18:Bd:156:ARG:HA	2.31	0.70
4:0K:189:ALA:HB2	18:Bf:215:ARG:HH22	1.55	0.70
14:1E:545:PRO:HD2	14:1E:579:ALA:HB1	1.72	0.70
17:7c:390:ARG:HH11	17:7c:391:ARG:HH12	1.40	0.70
17:7e:236:ILE:HG23	17:7e:237:THR:HG23	1.74	0.70
17:8c:198:GLU:HG3	17:8c:266:PHE:HE2	1.57	0.70
17:De:172:SER:OG	17:De:175:VAL:O	2.10	0.70
12:0X:246:GLU:HG3	12:0X:248:THR:H	1.56	0.70
13:1C:1244:PRO:HG2	13:1C:1257:VAL:HA	1.73	0.70
18:1b:255:PHE:O	18:1b:259:LEU:HB2	1.91	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:3a:236:ILE:HG23	17:3a:237:THR:HG23	1.73	0.70
18:3d:12:ALA:HB3	18:3d:140:ALA:HB2	1.73	0.70
18:4f:90:GLU:OE1	18:4f:121:ARG:NE	2.25	0.70
18:7h:325:PRO:HA	18:7h:328:VAL:HG12	1.74	0.70
18:8h:336:LYS:NZ	18:8h:348:PRO:O	2.25	0.70
18:Cb:80:THR:O	18:Cb:84:ARG:NH2	2.24	0.70
18:Cd:336:LYS:NZ	18:Cd:348:PRO:O	2.24	0.70
17:1g:315:ALA:HB3	17:1g:330:MET:HE1	1.72	0.69
18:1h:267:PHE:HB2	18:1h:384:ILE:HD12	1.73	0.69
18:4h:90:GLU:OE1	18:4h:121:ARG:NE	2.23	0.69
17:9a:207:LEU:HB3	17:9a:225:LEU:HD22	1.74	0.69
17:9c:236:ILE:HG23	17:9c:237:THR:HG23	1.72	0.69
18:Ab:101:ASN:ND2	21:Ab:501:GTP:O1G	2.25	0.69
17:Bg:236:ILE:HG23	17:Bg:237:THR:HG23	1.74	0.69
18:Bh:64:ARG:NH1	18:Bh:129:CYS:SG	2.65	0.69
18:Cb:12:ALA:HB3	18:Cb:140:ALA:HB2	1.72	0.69
7:0Q:19:MET:HE2	7:0Q:308:VAL:HG13	1.74	0.69
17:1c:66:MET:HE3	17:1c:116:VAL:HG21	1.74	0.69
17:2c:186:THR:HA	17:2c:415:MET:HE1	1.74	0.69
17:6g:236:ILE:HD12	17:6g:368:ILE:HD11	1.73	0.69
18:7d:325:PRO:HA	18:7d:328:VAL:HG12	1.73	0.69
17:7g:100:ASN:HB3	17:7g:103:LYS:HB2	1.75	0.69
18:Dd:267:PHE:HB2	18:Dd:384:ILE:HD12	1.73	0.69
1:0A:334:LEU:HD13	1:0A:585:LEU:HD23	1.75	0.69
17:2g:236:ILE:HG23	17:2g:237:THR:HG23	1.74	0.69
17:4g:128:ASP:OD2	17:4g:129:CYS:N	2.25	0.69
17:4g:182:PRO:HG2	17:4g:388:MET:HE2	1.73	0.69
17:6e:30:ILE:HD11	17:6e:47:ILE:HD11	1.74	0.69
18:6h:64:ARG:NH1	18:6h:129:CYS:SG	2.65	0.69
17:Ba:325:GLU:CD	18:Bh:221:ARG:HH12	2.00	0.69
17:Be:198:GLU:HG3	17:Be:266:PHE:HE2	1.56	0.69
3:0J:265:LEU:HD21	3:0J:330:LEU:HB3	1.74	0.69
17:1e:207:LEU:HD13	17:1e:225:LEU:HB3	1.74	0.69
18:3f:64:ARG:NH1	18:3f:129:CYS:SG	2.66	0.69
17:4a:198:GLU:HG3	17:4a:266:PHE:HE2	1.56	0.69
17:4g:30:ILE:HD11	17:4g:47:ILE:HD11	1.74	0.69
18:6b:206:ASN:OD1	21:6b:501:GTP:N2	2.24	0.69
17:6g:238:CYS:SG	17:6g:241:ARG:NH2	2.66	0.69
18:9d:101:ASN:ND2	21:9d:501:GTP:O1G	2.26	0.69
18:Bh:272:TYR:HB3	18:Bh:275:ILE:HD11	1.73	0.69
13:1B:1347:LEU:HD22	13:1B:1389:VAL:HG21	1.75	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1C:1690:MET:HE2	13:1C:1705:PHE:HD1	1.58	0.69
17:1e:73:MET:SD	17:1e:92:PHE:HB3	2.33	0.69
18:3d:104:ALA:HB2	18:3d:413:MET:HE2	1.73	0.69
17:3g:220:PRO:HD2	18:3h:326:LYS:HD2	1.74	0.69
17:5a:236:ILE:HG23	17:5a:237:THR:HG23	1.74	0.69
18:5f:101:ASN:ND2	21:5f:501:GTP:O1G	2.26	0.69
17:6c:7:ILE:HB	17:6c:135:VAL:HG22	1.74	0.69
18:7h:147:SER:HB2	18:7h:190:SER:HB3	1.74	0.69
18:8b:90:GLU:OE1	18:8b:121:ARG:NE	2.25	0.69
18:Ab:298:PRO:HA	18:Ab:301:MET:HE1	1.74	0.69
7:0S:488:LEU:HB3	7:0S:498:THR:HG21	1.72	0.69
14:1F:544:VAL:HG13	14:1F:547:LYS:HG2	1.74	0.69
18:3h:90:GLU:OE1	18:3h:121:ARG:NE	2.24	0.69
18:4d:90:GLU:OE1	18:4d:121:ARG:NE	2.26	0.69
18:6f:377:MET:HE3	18:6f:379:SER:HB3	1.75	0.69
17:Ca:207:LEU:HB3	17:Ca:225:LEU:HD22	1.74	0.69
5:0M:645:TYR:OH	17:1a:43:GLN:NE2	2.25	0.69
7:0S:500:TRP:HE1	7:0S:535:PRO:HA	1.58	0.69
13:1B:1272:PRO:HB2	13:1B:1284:ARG:HH11	1.56	0.69
17:2a:172:SER:HB2	17:2a:205:GLU:HB2	1.75	0.69
18:4b:147:SER:HB2	18:4b:190:SER:HB3	1.74	0.69
17:5c:236:ILE:HG23	17:5c:237:THR:HG23	1.73	0.69
18:5h:147:SER:HB2	18:5h:190:SER:HB3	1.75	0.69
17:Ac:172:SER:OG	17:Ac:175:VAL:O	2.10	0.69
18:Cd:267:PHE:HB2	18:Cd:384:ILE:HD12	1.75	0.69
5:0M:646:VAL:HG11	17:1a:320:ARG:HD3	1.75	0.69
17:2e:207:LEU:HB3	17:2e:225:LEU:HD22	1.75	0.69
18:3d:2:ARG:HB3	18:3d:242:LEU:HD12	1.74	0.69
17:4c:172:SER:OG	17:4c:175:VAL:O	2.11	0.69
17:4g:229:ILE:HG22	17:4g:233:MET:HE2	1.75	0.69
17:6g:100:ASN:HB3	17:6g:103:LYS:HB2	1.74	0.69
18:8d:88:HIS:HD2	18:9d:283:HIS:HB3	1.56	0.69
17:9a:203:ASP:OD2	17:9a:302:ALA:N	2.25	0.69
18:9d:325:PRO:HA	18:9d:328:VAL:HG12	1.74	0.69
18:Ad:101:ASN:ND2	21:Ad:501:GTP:O1G	2.26	0.69
17:Ba:1:MET:HE1	18:Bh:96:LYS:HA	1.74	0.69
18:Bh:180:ALA:HB3	18:Bh:183:GLU:HB2	1.75	0.69
18:Cf:12:ALA:HB3	18:Cf:140:ALA:HB2	1.73	0.69
17:Cg:203:ASP:OD2	17:Cg:302:ALA:N	2.26	0.69
17:Da:186:THR:HA	17:Da:415:MET:HE1	1.75	0.69
1:0D:582:GLN:H	1:0D:597:GLY:HA2	1.56	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0K:218:ARG:HH12	13:1B:1215:GLU:HG2	1.58	0.69
9:0U:98:UNK:O	18:5f:215:ARG:NH2	2.26	0.69
12:0X:181:VAL:HG11	12:0X:187:ALA:HB2	1.75	0.69
18:2b:234:VAL:HG21	18:2b:302:MET:HE1	1.75	0.69
17:2g:207:LEU:HB3	17:2g:225:LEU:HD22	1.74	0.69
18:3f:90:GLU:OE1	18:3f:121:ARG:NE	2.26	0.69
18:4f:147:SER:HB2	18:4f:190:SER:HB3	1.75	0.69
17:4g:238:CYS:SG	17:4g:241:ARG:NH2	2.66	0.69
18:6f:90:GLU:OE1	18:6f:121:ARG:NE	2.24	0.69
17:Ac:207:LEU:HB3	17:Ac:225:LEU:HD22	1.73	0.69
17:Cg:282:ARG:HH11	17:Cg:284:LEU:HD23	1.57	0.69
17:De:198:GLU:HG3	17:De:266:PHE:HE2	1.57	0.69
2:0E:29:ASP:OD1	18:Df:264:ARG:NH2	2.25	0.69
3:0I:218:ILE:HG21	17:Cg:216:LYS:HE3	1.74	0.69
7:0Q:487:SER:OG	7:0Q:489:TRP:NE1	2.26	0.69
14:1E:425:LYS:HD2	14:1E:524:SER:HB3	1.74	0.69
17:1e:207:LEU:HB3	17:1e:225:LEU:HD22	1.73	0.69
18:4f:1:MET:HE3	18:4f:2:ARG:HH11	1.57	0.69
17:6g:391:ARG:HH11	18:6h:346:TRP:HB3	1.58	0.69
18:7d:200:VAL:HG23	18:7d:256:GLN:HG3	1.75	0.69
18:Af:147:SER:HB2	18:Af:190:SER:HB3	1.75	0.69
5:0N:419:ASN:HB3	5:0N:422:MET:HG2	1.74	0.68
12:0X:232:ALA:O	12:0X:344:SER:N	2.23	0.68
18:1h:90:GLU:OE1	18:1h:121:ARG:NE	2.23	0.68
18:4b:12:ALA:HB3	18:4b:140:ALA:HB2	1.74	0.68
17:4c:30:ILE:HD11	17:4c:47:ILE:HD11	1.74	0.68
18:4f:101:ASN:ND2	21:4f:501:GTP:O1G	2.26	0.68
17:4g:198:GLU:HG3	17:4g:266:PHE:HE2	1.57	0.68
17:Be:321:MET:HE2	17:Be:363:MET:HB2	1.76	0.68
1:0A:349:THR:HG22	1:0A:365:GLU:HB3	1.75	0.68
13:1C:1190:GLU:HG2	13:1C:1485:ALA:HB2	1.75	0.68
17:3c:375:GLN:HG3	17:3c:419:VAL:HG13	1.75	0.68
17:4c:198:GLU:HG3	17:4c:266:PHE:HE2	1.58	0.68
17:5c:66:MET:HE1	17:5c:151:LEU:HD22	1.73	0.68
18:8h:265:ILE:HG21	18:8h:313:MET:HE1	1.75	0.68
17:Ac:236:ILE:HG23	17:Ac:237:THR:HG23	1.74	0.68
18:Bf:263:PRO:O	18:Bf:266:HIS:ND1	2.25	0.68
17:Da:60:VAL:HG21	17:Da:86:ARG:HG2	1.73	0.68
17:De:236:ILE:HG23	17:De:237:THR:HG23	1.75	0.68
14:1G:1002:ALA:O	14:1G:1004:GLN:NE2	2.26	0.68
16:1M:99:UNK:C	17:Bg:406:MET:CE	2.71	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1f:64:ARG:NH1	18:1f:129:CYS:SG	2.67	0.68
17:3e:236:ILE:HG23	17:3e:237:THR:HG23	1.74	0.68
17:5g:207:LEU:HB3	17:5g:225:LEU:HD22	1.75	0.68
18:6d:399:TYR:O	18:6d:402:ARG:NH1	2.26	0.68
18:7d:64:ARG:NH1	18:7d:129:CYS:SG	2.66	0.68
18:7f:64:ARG:NH1	18:7f:129:CYS:SG	2.66	0.68
18:Ab:268:MET:HG3	18:Ab:378:ILE:HD11	1.74	0.68
17:Da:375:GLN:HG3	17:Da:419:VAL:HG13	1.76	0.68
3:0I:318:MET:HE1	18:Bh:156:ARG:HG3	1.75	0.68
18:6h:399:TYR:O	18:6h:402:ARG:NH1	2.26	0.68
17:7g:30:ILE:HD11	17:7g:47:ILE:HD11	1.74	0.68
17:9e:172:SER:OG	17:9e:175:VAL:O	2.11	0.68
1:0C:194:LEU:HD21	4:0K:106:LEU:HD11	1.75	0.68
18:2b:325:PRO:HA	18:2b:328:VAL:HG12	1.76	0.68
17:2e:375:GLN:HG3	17:2e:419:VAL:HG13	1.74	0.68
18:2h:12:ALA:HB3	18:2h:140:ALA:HB2	1.74	0.68
17:4e:203:ASP:OD2	17:4e:302:ALA:N	2.25	0.68
17:4g:131:GLN:O	17:4g:163:MET:HB2	1.94	0.68
17:6c:30:ILE:HD11	17:6c:47:ILE:HD11	1.76	0.68
17:7c:198:GLU:HG3	17:7c:266:PHE:HE2	1.59	0.68
17:Bg:67:ASP:O	17:Bg:92:PHE:HA	1.93	0.68
2:0E:44:LEU:HD23	2:0E:135:ILE:HG23	1.74	0.68
17:1a:30:ILE:HD11	17:1a:47:ILE:HD11	1.73	0.68
18:5h:267:PHE:HB2	18:5h:384:ILE:HD12	1.75	0.68
18:6f:206:ASN:OD1	21:6f:501:GTP:N2	2.26	0.68
18:6h:325:PRO:HA	18:6h:328:VAL:HG12	1.75	0.68
17:9c:198:GLU:HG3	17:9c:266:PHE:HE2	1.58	0.68
3:0I:322:ARG:HE	3:0I:326:TYR:HE2	1.39	0.68
3:0J:92:LEU:O	3:0J:96:HIS:ND1	2.27	0.68
3:0J:135:MET:O	3:0J:142:ARG:NH2	2.26	0.68
17:1g:375:GLN:HG3	17:1g:419:VAL:HG13	1.76	0.68
18:5h:325:PRO:HA	18:5h:328:VAL:HG12	1.76	0.68
18:6b:101:ASN:ND2	21:6b:501:GTP:O1G	2.26	0.68
18:6d:325:PRO:HA	18:6d:328:VAL:HG12	1.75	0.68
17:9e:175:VAL:HG11	18:9f:329:ASN:HD22	1.59	0.68
17:Ac:267:MET:HG3	17:Ac:299:MET:HE1	1.75	0.68
18:Ch:90:GLU:OE1	18:Ch:121:ARG:NE	2.24	0.68
6:0P:189:THR:HG22	17:Bc:361:LEU:HG	1.75	0.68
12:0Z:59:LEU:HD23	12:0Z:62:VAL:HG21	1.75	0.68
14:1E:1029:LEU:HD22	14:1E:1064:ALA:HB1	1.74	0.68
18:1h:255:PHE:O	18:1h:259:LEU:HB2	1.94	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:8f:259:LEU:HD13	18:8f:268:MET:HE2	1.76	0.68
18:8h:237:SER:HA	18:8h:320:ARG:HD2	1.76	0.68
17:Cc:236:ILE:HG23	17:Cc:237:THR:HG23	1.76	0.68
17:1e:172:SER:OG	17:1e:175:VAL:O	2.10	0.68
18:2d:336:LYS:NZ	18:2d:348:PRO:O	2.27	0.68
18:3b:101:ASN:ND2	21:3b:501:GTP:O1G	2.27	0.68
17:5g:152:ILE:HG12	17:5g:164:MET:HE3	1.76	0.68
17:6a:238:CYS:SG	17:6a:241:ARG:NH2	2.67	0.68
17:8g:229:ILE:HG22	17:8g:233:MET:HE2	1.75	0.68
18:9b:336:LYS:NZ	18:9b:348:PRO:O	2.27	0.68
18:9d:398:MET:HE2	17:9e:345:ILE:HG23	1.75	0.68
17:Bc:94:GLN:HE21	18:Bd:131:GLY:HA3	1.58	0.68
1:0C:146:SER:HA	1:0C:149:TRP:CD1	2.28	0.68
5:0N:343:ARG:NH2	18:Db:365:GLY:O	2.26	0.68
18:2b:64:ARG:NH1	18:2b:129:CYS:SG	2.67	0.68
18:8b:398:MET:HE1	17:8c:345:ILE:HG23	1.75	0.68
17:Aa:7:ILE:HD13	17:Aa:151:LEU:HD21	1.75	0.68
17:Aa:236:ILE:HG23	17:Aa:237:THR:HG23	1.75	0.68
17:Ce:236:ILE:HG23	17:Ce:237:THR:HG23	1.75	0.68
18:Db:336:LYS:NZ	18:Db:348:PRO:O	2.27	0.68
5:0M:161:LEU:HA	5:0M:174:ALA:HB3	1.76	0.67
14:1G:544:VAL:HG13	14:1G:547:LYS:HG2	1.75	0.67
17:1g:20:PHE:HA	17:1g:230:SER:HB2	1.76	0.67
17:2e:67:ASP:O	17:2e:92:PHE:HA	1.94	0.67
17:4g:236:ILE:HG23	17:4g:237:THR:HG23	1.76	0.67
17:5g:30:ILE:HD11	17:5g:47:ILE:HD11	1.76	0.67
3:0I:457:TRP:HE1	3:0I:483:GLN:HG2	1.59	0.67
12:0Z:248:THR:OG1	18:9b:412:GLY:O	2.11	0.67
12:1A:138:SER:HG	12:1A:217:THR:HG1	1.37	0.67
13:1C:1250:GLU:HG3	13:1C:1253:ALA:HB2	1.76	0.67
18:1d:64:ARG:NH1	18:1d:129:CYS:SG	2.67	0.67
18:2d:12:ALA:HB3	18:2d:140:ALA:HB2	1.74	0.67
18:3b:336:LYS:NZ	18:3b:348:PRO:O	2.27	0.67
17:3g:198:GLU:HG3	17:3g:266:PHE:HE2	1.57	0.67
17:4c:236:ILE:HG23	17:4c:237:THR:HG23	1.77	0.67
18:6f:64:ARG:NH1	18:6f:129:CYS:SG	2.67	0.67
17:6g:362:LYS:HG3	17:6g:363:MET:HG3	1.76	0.67
18:9f:251:ASP:N	18:9f:254:GLU:OE1	2.26	0.67
18:9h:147:SER:HB2	18:9h:190:SER:HB3	1.75	0.67
17:Cg:172:SER:OG	17:Cg:175:VAL:O	2.12	0.67
18:Dd:325:PRO:HA	18:Dd:328:VAL:HG12	1.75	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0D:434:VAL:HG21	1:0D:469:THR:HG21	1.76	0.67
18:4f:64:ARG:NH1	18:4f:129:CYS:SG	2.68	0.67
17:4g:172:SER:OG	17:4g:175:VAL:O	2.11	0.67
18:5b:2:ARG:HB3	18:5b:242:LEU:HD12	1.75	0.67
18:5d:147:SER:HB2	18:5d:190:SER:HB3	1.76	0.67
18:6b:336:LYS:NZ	18:6b:348:PRO:O	2.27	0.67
18:Af:325:PRO:HA	18:Af:328:VAL:HG12	1.77	0.67
18:Bd:160:ASP:OD1	18:Bd:161:TYR:N	2.28	0.67
18:Cd:12:ALA:HB3	18:Cd:140:ALA:HB2	1.75	0.67
1:0C:332:LEU:HB3	1:0C:341:LEU:HD11	1.74	0.67
12:0X:248:THR:OG1	18:9f:412:GLY:O	2.12	0.67
15:1H:5:UNK:O	17:4e:276:ARG:NH2	2.26	0.67
18:3b:147:SER:HB2	18:3b:190:SER:HB3	1.76	0.67
18:4d:132:LEU:HB3	18:4d:164:LYS:HE2	1.76	0.67
18:5d:336:LYS:NZ	18:5d:348:PRO:O	2.28	0.67
17:6e:198:GLU:HG3	17:6e:266:PHE:HE2	1.59	0.67
18:7b:147:SER:HB2	18:7b:190:SER:HB3	1.76	0.67
18:9d:147:SER:HB2	18:9d:190:SER:HB3	1.76	0.67
21:9f:501:GTP:O1B	17:9g:252:LYS:NZ	2.25	0.67
18:Cf:325:PRO:HA	18:Cf:328:VAL:HG12	1.76	0.67
3:0I:217:ARG:H	3:0I:232:ILE:HG12	1.58	0.67
13:1C:1190:GLU:HG3	13:1C:1484:SER:HB3	1.77	0.67
13:1C:1481:SER:HA	13:1C:1498:LEU:HD12	1.76	0.67
17:2g:172:SER:OG	17:2g:175:VAL:O	2.13	0.67
18:3f:316:CYS:HB3	18:3f:378:ILE:HG23	1.77	0.67
17:5a:207:LEU:HB3	17:5a:225:LEU:HD22	1.75	0.67
17:7e:172:SER:OG	17:7e:175:VAL:O	2.12	0.67
17:9a:245:GLN:OE1	18:9h:223:THR:OG1	2.13	0.67
17:Bc:83:GLN:O	17:Cc:281:TYR:OH	2.12	0.67
18:Db:2:ARG:HB3	18:Db:242:LEU:HD12	1.77	0.67
18:Dd:178:SER:OG	17:De:347:ASN:ND2	2.28	0.67
3:0J:508:ARG:HH22	14:1F:942:MET:HA	1.60	0.67
12:0X:233:VAL:HG12	12:0X:234:LEU:H	1.59	0.67
13:1C:1347:LEU:HD22	13:1C:1389:VAL:HG21	1.76	0.67
18:4d:267:PHE:HB2	18:4d:384:ILE:HD12	1.75	0.67
17:4e:30:ILE:HD11	17:4e:47:ILE:HD11	1.77	0.67
18:4f:267:PHE:HB2	18:4f:384:ILE:HD12	1.74	0.67
17:4g:207:LEU:HB3	17:4g:225:LEU:HD22	1.77	0.67
17:Bg:198:GLU:HG3	17:Bg:266:PHE:HE2	1.60	0.67
18:Ch:101:ASN:ND2	21:Ch:501:GTP:O1G	2.27	0.67
17:Dg:207:LEU:HB3	17:Dg:225:LEU:HD22	1.77	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0B:169:GLU:HA	1:0B:172:LYS:HD2	1.77	0.67
17:3g:330:MET:HE2	17:3g:349:VAL:HG13	1.75	0.67
17:8e:172:SER:OG	17:8e:175:VAL:O	2.13	0.67
17:Be:128:ASP:OD2	17:Be:129:CYS:N	2.27	0.67
18:Bf:147:SER:HB2	18:Bf:190:SER:HB3	1.77	0.67
17:Ce:172:SER:OG	17:Ce:175:VAL:O	2.13	0.67
3:0J:424:PHE:HZ	3:0J:514:VAL:HG21	1.60	0.67
4:0L:218:ARG:NH2	13:1C:1214:LEU:O	2.28	0.67
6:0P:36:GLN:NE2	6:0P:49:ASN:O	2.27	0.67
18:3f:2:ARG:HB3	18:3f:242:LEU:HD12	1.77	0.67
17:3g:215:LEU:HB3	17:3g:217:LEU:HD13	1.77	0.67
18:3h:64:ARG:NH1	18:3h:129:CYS:SG	2.67	0.67
18:3h:336:LYS:NZ	18:3h:348:PRO:O	2.28	0.67
17:4c:207:LEU:HB3	17:4c:225:LEU:HD22	1.76	0.67
17:6a:11:GLN:HG2	17:6a:72:THR:HG21	1.77	0.67
17:6a:207:LEU:HB3	17:6a:225:LEU:HD22	1.75	0.67
18:6f:101:ASN:ND2	21:6f:501:GTP:O1G	2.27	0.67
18:7h:90:GLU:OE1	18:7h:121:ARG:NE	2.28	0.67
18:9f:325:PRO:HA	18:9f:328:VAL:HG12	1.77	0.67
18:Bd:325:PRO:HA	18:Bd:328:VAL:HG12	1.77	0.67
1:0A:296:ALA:HB2	1:0A:482:ARG:HD3	1.75	0.67
18:3d:336:LYS:NZ	18:3d:348:PRO:O	2.28	0.67
17:5a:238:CYS:SG	17:5a:241:ARG:NH2	2.67	0.67
18:9d:251:ASP:OD1	18:9d:252:ILE:N	2.28	0.67
17:Ac:213:ARG:HE	17:Ac:297:LYS:HB3	1.59	0.67
17:Cc:172:SER:OG	17:Cc:175:VAL:O	2.13	0.67
13:1B:1390:GLU:HG3	13:1B:1404:GLU:HG2	1.75	0.67
18:2b:12:ALA:HB3	18:2b:140:ALA:HB2	1.75	0.67
17:7a:198:GLU:HG3	17:7a:266:PHE:HE2	1.59	0.67
17:8e:238:CYS:SG	17:8e:241:ARG:NH2	2.68	0.67
17:9a:344:TRP:CE3	18:9h:401:LYS:HE3	2.29	0.67
1:0D:332:LEU:HD22	1:0D:341:LEU:HD21	1.76	0.66
3:0J:265:LEU:HD23	3:0J:331:ARG:HH21	1.60	0.66
7:0Q:442:GLY:HA2	7:0Q:465:ILE:HG12	1.76	0.66
18:1f:325:PRO:HA	18:1f:328:VAL:HG12	1.76	0.66
17:3a:345:ILE:HG23	18:3h:398:MET:HE2	1.76	0.66
17:3c:207:LEU:HB3	17:3c:225:LEU:HD22	1.77	0.66
17:3g:172:SER:OG	17:3g:175:VAL:O	2.12	0.66
17:4a:167:PHE:HA	17:4a:200:MET:HB2	1.77	0.66
17:5c:317:PHE:HB3	17:5c:321:MET:HE1	1.75	0.66
18:5d:267:PHE:HB2	18:5d:384:ILE:HD12	1.77	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6h:206:ASN:OD1	21:6h:501:GTP:N2	2.27	0.66
18:8f:64:ARG:NH1	18:8f:129:CYS:SG	2.68	0.66
17:Ag:198:GLU:HG3	17:Ag:266:PHE:HE2	1.59	0.66
17:Bg:30:ILE:HD11	17:Bg:47:ILE:HD11	1.76	0.66
18:Cb:255:PHE:O	18:Cb:259:LEU:HB2	1.94	0.66
1:0D:157:ASP:OD1	1:0D:160:ARG:NH2	2.28	0.66
2:0E:70:ASN:HD21	2:0E:93:ASN:HA	1.61	0.66
5:0M:372:MET:HE1	5:0M:403:VAL:HG22	1.76	0.66
7:0S:429:SER:HB3	7:0S:433:ALA:H	1.60	0.66
13:1B:1684:LEU:HD22	13:1B:1689:TYR:HB2	1.77	0.66
18:2d:101:ASN:ND2	21:2d:501:GTP:O1G	2.27	0.66
18:5b:90:GLU:OE1	18:5b:121:ARG:NE	2.29	0.66
18:6f:254:GLU:N	18:6f:254:GLU:OE2	2.28	0.66
17:9c:7:ILE:HD13	17:9c:151:LEU:HD21	1.77	0.66
18:Ad:325:PRO:HA	18:Ad:328:VAL:HG12	1.77	0.66
1:0B:88:LEU:HD22	1:0C:98:GLU:HG3	1.76	0.66
17:2c:198:GLU:HG3	17:2c:266:PHE:HE2	1.60	0.66
17:4e:207:LEU:HB3	17:4e:225:LEU:HD22	1.76	0.66
18:6h:12:ALA:HB3	18:6h:140:ALA:HB2	1.78	0.66
17:8c:229:ILE:HG22	17:8c:233:MET:HE2	1.77	0.66
18:8d:64:ARG:NH1	18:8d:129:CYS:SG	2.68	0.66
17:Ac:100:ASN:HB3	17:Ac:103:LYS:HB2	1.77	0.66
18:Ad:132:LEU:HB3	18:Ad:164:LYS:HE2	1.77	0.66
18:Bf:169:PHE:HZ	18:Bf:238:LEU:HD13	1.60	0.66
18:Dh:12:ALA:HB3	18:Dh:140:ALA:HB2	1.76	0.66
12:0X:106:THR:H	12:0X:111:ARG:HG2	1.60	0.66
14:1F:790:LEU:HD11	14:1F:841:ALA:HB2	1.77	0.66
18:1b:12:ALA:HB3	18:1b:140:ALA:HB2	1.76	0.66
17:3c:109:GLY:HA2	17:3c:147:MET:HE2	1.77	0.66
18:6d:90:GLU:OE1	18:6d:121:ARG:NE	2.27	0.66
18:7f:325:PRO:HA	18:7f:328:VAL:HG12	1.77	0.66
17:8c:52:ASN:OD1	17:8c:62:ARG:NH2	2.29	0.66
17:Ae:207:LEU:HD23	17:Ae:300:MET:HE3	1.78	0.66
17:Ag:7:ILE:HD13	17:Ag:151:LEU:HD21	1.77	0.66
18:Ch:12:ALA:HB3	18:Ch:140:ALA:HB2	1.77	0.66
18:Db:88:HIS:HB3	18:Db:91:GLN:HB2	1.78	0.66
5:0M:678:ALA:HA	17:De:78:SER:HB3	1.77	0.66
12:0Y:331:ARG:HD3	18:9h:402:ARG:HH21	1.60	0.66
13:1B:1250:GLU:HG3	13:1B:1253:ALA:HB2	1.78	0.66
13:1B:1659:ALA:HB2	16:1M:22:UNK:CA	2.20	0.66
17:2e:20:PHE:HA	17:2e:230:SER:HB2	1.77	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:6e:172:SER:OG	17:6e:175:VAL:O	2.13	0.66
17:6g:20:PHE:HA	17:6g:230:SER:HB2	1.77	0.66
17:6g:289:LEU:O	17:6g:293:MET:HG2	1.96	0.66
18:8d:325:PRO:HA	18:8d:328:VAL:HG12	1.77	0.66
18:9d:223:THR:OG1	17:9e:245:GLN:OE1	2.13	0.66
18:Ch:336:LYS:NZ	18:Ch:348:PRO:O	2.28	0.66
9:0U:119:UNK:O	17:5g:306:ARG:NH1	2.29	0.66
12:0X:13:ARG:NH1	12:0X:94:GLY:O	2.29	0.66
12:0Z:233:VAL:HG12	12:0Z:234:LEU:H	1.60	0.66
13:1B:1216:ASN:ND2	17:Be:417:ASP:OD2	2.29	0.66
18:2f:12:ALA:HB3	18:2f:140:ALA:HB2	1.78	0.66
18:4b:267:PHE:HB2	18:4b:384:ILE:HD12	1.78	0.66
18:4d:101:ASN:ND2	21:4d:501:GTP:O1G	2.29	0.66
17:5e:30:ILE:HD11	17:5e:47:ILE:HD11	1.76	0.66
18:6b:12:ALA:HB3	18:6b:140:ALA:HB2	1.77	0.66
18:6d:254:GLU:N	18:6d:254:GLU:OE2	2.28	0.66
21:9b:501:GTP:O1B	17:9c:252:LYS:NZ	2.28	0.66
18:Ab:268:MET:HE1	18:Ab:380:ASN:HB2	1.76	0.66
18:Ad:90:GLU:OE1	18:Ad:121:ARG:NE	2.29	0.66
17:Ag:172:SER:OG	17:Ag:175:VAL:O	2.13	0.66
17:De:30:ILE:HD11	17:De:47:ILE:HD11	1.76	0.66
17:De:317:PHE:HB3	17:De:321:MET:HE1	1.77	0.66
17:De:374:ILE:HG23	17:De:377:MET:HE3	1.77	0.66
1:0A:88:LEU:HD22	1:0D:98:GLU:HG3	1.77	0.66
2:0F:66:ARG:NH2	17:Dc:402:GLY:O	2.29	0.66
3:0I:212:ARG:HH22	17:Cg:299:MET:HB2	1.61	0.66
5:0M:343:ARG:NH2	18:Df:365:GLY:O	2.28	0.66
17:2g:52:ASN:OD1	17:2g:62:ARG:NH2	2.29	0.66
18:2h:217:LEU:HD21	18:2h:368:LEU:HD23	1.76	0.66
18:3h:325:PRO:HA	18:3h:328:VAL:HG12	1.78	0.66
18:6f:316:CYS:HB3	18:6f:378:ILE:HG23	1.78	0.66
18:7f:101:ASN:HA	18:7f:144:GLY:H	1.60	0.66
18:8h:325:PRO:HA	18:8h:328:VAL:HG12	1.76	0.66
18:Ab:147:SER:HB2	18:Ab:190:SER:HB3	1.78	0.66
18:Bd:101:ASN:ND2	21:Bd:501:GTP:O1G	2.28	0.66
17:Cg:11:GLN:HG2	17:Cg:72:THR:HG21	1.78	0.66
1:0D:146:SER:HA	1:0D:149:TRP:CD1	2.30	0.66
13:1C:1313:VAL:HA	13:1C:1750:TYR:HE1	1.61	0.66
14:1E:883:ALA:O	14:1E:917:ARG:NH1	2.29	0.66
17:1e:30:ILE:HD11	17:1e:47:ILE:HD11	1.78	0.66
18:2b:279:GLU:O	18:2b:283:HIS:CE1	2.49	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4c:207:LEU:HD13	17:4c:225:LEU:HB3	1.78	0.66
18:6d:398:MET:HE1	17:6e:345:ILE:HG12	1.77	0.66
17:8c:172:SER:OG	17:8c:175:VAL:O	2.14	0.66
17:8g:172:SER:OG	17:8g:175:VAL:O	2.14	0.66
18:Cb:206:ASN:OD1	21:Cb:501:GTP:N2	2.29	0.66
17:Cg:67:ASP:O	17:Cg:92:PHE:HA	1.95	0.66
7:0S:589:ALA:HB3	7:0S:607:ALA:HB1	1.77	0.66
17:4a:345:ILE:HG23	18:4h:398:MET:HE2	1.76	0.66
18:5h:101:ASN:ND2	21:5h:501:GTP:O1G	2.29	0.66
18:7d:267:PHE:HB2	18:7d:384:ILE:HD12	1.78	0.66
17:8a:1:MET:HE1	18:8h:96:LYS:HA	1.77	0.66
1:0D:407:THR:O	1:0D:410:LYS:NZ	2.27	0.66
12:0X:249:LYS:HG3	12:0X:250:LYS:HD3	1.77	0.66
14:1F:502:SER:OG	14:1F:505:GLU:OE1	2.12	0.66
17:6a:30:ILE:HD11	17:6a:47:ILE:HD11	1.77	0.66
17:7a:345:ILE:HG12	18:7h:398:MET:HE1	1.78	0.66
17:8g:30:ILE:HD11	17:8g:47:ILE:HD11	1.78	0.66
18:9d:267:PHE:HB2	18:9d:384:ILE:HD12	1.78	0.66
17:Bg:94:GLN:HE21	18:Bh:131:GLY:HA3	1.61	0.66
18:Db:267:PHE:HB2	18:Db:384:ILE:HD12	1.77	0.66
7:0S:240:GLY:H	17:2c:33:THR:HG21	1.61	0.65
18:1f:104:ALA:HB2	18:1f:413:MET:HE3	1.78	0.65
18:3d:325:PRO:HA	18:3d:328:VAL:HG12	1.78	0.65
18:4h:12:ALA:HB3	18:4h:140:ALA:HB2	1.78	0.65
17:5c:172:SER:OG	17:5c:175:VAL:O	2.12	0.65
18:8f:206:ASN:OD1	21:8f:501:GTP:N2	2.29	0.65
18:9h:325:PRO:HA	18:9h:328:VAL:HG12	1.78	0.65
18:Bd:211:ASP:OD1	18:Bd:214:ARG:NH1	2.28	0.65
17:Cg:52:ASN:OD1	17:Cg:62:ARG:NH2	2.29	0.65
17:Dc:218:THR:O	18:Dd:326:LYS:NZ	2.24	0.65
1:0C:434:VAL:HG21	1:0C:469:THR:HG21	1.77	0.65
12:0Z:249:LYS:HG3	12:0Z:250:LYS:HD3	1.77	0.65
13:1B:1302:PRO:HD2	13:1B:1305:LEU:HB2	1.79	0.65
14:1E:522:HIS:O	14:1E:526:ASN:ND2	2.29	0.65
18:3d:101:ASN:ND2	21:3d:501:GTP:O1G	2.29	0.65
17:4a:318:ARG:HB3	17:4a:357:PRO:HA	1.77	0.65
18:5f:90:GLU:OE1	18:5f:121:ARG:NE	2.29	0.65
18:5f:325:PRO:HA	18:5f:328:VAL:HG12	1.77	0.65
17:8g:207:LEU:HB3	17:8g:225:LEU:HD22	1.78	0.65
17:Ae:172:SER:OG	17:Ae:175:VAL:O	2.15	0.65
17:Da:172:SER:OG	17:Da:175:VAL:O	2.15	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:0Z:286:PRO:HB3	17:9c:421:GLU:OE2	1.97	0.65
17:1c:391:ARG:NH1	18:1d:438:GLU:O	2.29	0.65
18:1h:325:PRO:HA	18:1h:328:VAL:HG12	1.77	0.65
17:6c:20:PHE:HA	17:6c:230:SER:HB2	1.78	0.65
18:9d:155:GLU:HG2	18:9d:197:HIS:CE1	2.32	0.65
17:Ce:26:ASP:O	17:Ce:359:LYS:NZ	2.25	0.65
18:Df:285:GLN:HE21	18:Df:290:GLU:HG3	1.61	0.65
3:0J:455:TRP:CD1	3:0J:516:ARG:HH12	2.14	0.65
18:1b:90:GLU:OE1	18:1b:121:ARG:NE	2.29	0.65
18:1b:237:SER:HA	18:1b:320:ARG:HD2	1.77	0.65
18:4d:325:PRO:HA	18:4d:328:VAL:HG12	1.78	0.65
18:5f:336:LYS:NZ	18:5f:348:PRO:O	2.29	0.65
18:6b:267:PHE:HB2	18:6b:384:ILE:HD12	1.79	0.65
17:Bc:30:ILE:HD11	17:Bc:47:ILE:HD11	1.78	0.65
18:Df:147:SER:HB2	18:Df:190:SER:HB3	1.77	0.65
1:0A:76:ASP:OD1	1:0A:80:ARG:NH2	2.29	0.65
12:0X:20:SER:HB3	12:0X:316:PRO:HG3	1.77	0.65
14:1D:1007:ALA:HA	14:1D:1010:ARG:HD2	1.77	0.65
17:1a:172:SER:OG	17:1a:175:VAL:O	2.14	0.65
18:2f:325:PRO:HA	18:2f:328:VAL:HG12	1.79	0.65
17:5c:20:PHE:HA	17:5c:230:SER:HB2	1.76	0.65
17:5e:172:SER:OG	17:5e:175:VAL:O	2.14	0.65
18:5f:12:ALA:HB3	18:5f:140:ALA:HB2	1.77	0.65
17:9e:66:MET:HE1	17:9e:151:LEU:HD22	1.78	0.65
18:Db:101:ASN:ND2	21:Db:501:GTP:O1G	2.30	0.65
17:Dc:172:SER:OG	17:Dc:175:VAL:O	2.14	0.65
18:Dh:90:GLU:OE1	18:Dh:121:ARG:NE	2.30	0.65
16:1L:83:UNK:O	16:1L:144:UNK:N	2.29	0.65
1:0C:194:LEU:HD11	4:0K:106:LEU:HD21	1.78	0.65
7:0Q:276:GLU:OE2	17:3g:276:ARG:NH2	2.30	0.65
13:1B:1244:PRO:HG2	13:1B:1257:VAL:HA	1.76	0.65
14:1G:666:LEU:HG	14:1G:670:TYR:CE1	2.32	0.65
16:1M:83:UNK:O	16:1M:144:UNK:N	2.29	0.65
18:4f:325:PRO:HA	18:4f:328:VAL:HG12	1.79	0.65
17:7a:207:LEU:HB3	17:7a:225:LEU:HD22	1.77	0.65
17:8c:260:PHE:HB2	17:8c:263:LEU:HD13	1.79	0.65
17:Ac:7:ILE:HD13	17:Ac:151:LEU:HD21	1.77	0.65
18:Af:90:GLU:OE1	18:Af:121:ARG:NE	2.30	0.65
17:Bg:220:PRO:HD2	18:Bh:326:LYS:HD2	1.78	0.65
18:Dh:268:MET:HE2	18:Dh:378:ILE:HG12	1.77	0.65
3:0I:167:ARG:HH21	18:Bh:434:GLU:HG2	1.62	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0N:680:ARG:NH2	18:Db:245:ASP:OD1	2.29	0.65
7:0Q:500:TRP:HE1	7:0Q:535:PRO:HA	1.61	0.65
7:0S:64:ALA:HB2	7:0S:107:VAL:HG13	1.78	0.65
7:0S:442:GLY:HA2	7:0S:465:ILE:HG12	1.79	0.65
13:1B:1190:GLU:HG2	13:1B:1485:ALA:HB2	1.79	0.65
13:1B:1313:VAL:HA	13:1B:1750:TYR:HE1	1.62	0.65
18:1h:12:ALA:HB3	18:1h:140:ALA:HB2	1.77	0.65
17:2a:345:ILE:HG23	18:2h:398:MET:HE2	1.79	0.65
17:3e:218:THR:O	18:3f:326:LYS:NZ	2.25	0.65
18:3h:265:ILE:HG21	18:3h:313:MET:HE1	1.79	0.65
18:5h:64:ARG:NH1	18:5h:129:CYS:SG	2.70	0.65
18:6b:90:GLU:OE1	18:6b:121:ARG:NE	2.28	0.65
18:8d:237:SER:HA	18:8d:320:ARG:HD2	1.79	0.65
18:8f:11:GLN:N	21:8f:501:GTP:O1A	2.29	0.65
18:9b:90:GLU:OE1	18:9b:121:ARG:NE	2.30	0.65
17:9g:20:PHE:HA	17:9g:230:SER:HB2	1.77	0.65
17:Ba:172:SER:OG	17:Ba:175:VAL:O	2.15	0.65
12:0Y:80:MET:HA	12:0Y:80:MET:HE3	1.79	0.65
14:1D:522:HIS:O	14:1D:526:ASN:ND2	2.29	0.65
17:1c:207:LEU:HB3	17:1c:225:LEU:HD22	1.77	0.65
17:2e:172:SER:OG	17:2e:175:VAL:O	2.15	0.65
17:3e:207:LEU:HB3	17:3e:225:LEU:HD22	1.78	0.65
18:4h:180:ALA:HB3	18:4h:183:GLU:HB2	1.78	0.65
18:5b:64:ARG:NH1	18:5b:129:CYS:SG	2.70	0.65
18:7b:320:ARG:HB2	18:7b:374:ALA:HB3	1.78	0.65
17:8c:378:PHE:HD1	17:8c:415:MET:HE3	1.62	0.65
18:8d:35:GLN:HA	18:8d:61:HIS:HD2	1.61	0.65
18:Cb:267:PHE:HB2	18:Cb:384:ILE:HD12	1.78	0.65
18:Cf:101:ASN:ND2	21:Cf:501:GTP:O1G	2.30	0.65
17:Cg:207:LEU:HB3	17:Cg:225:LEU:HD22	1.78	0.65
17:Da:228:LEU:HB3	17:Da:300:MET:HE2	1.79	0.65
12:0X:204:VAL:HG23	12:0X:205:LEU:HD12	1.78	0.65
12:0Y:94:GLY:HA2	12:0Y:206:ASN:HD22	1.62	0.65
14:1D:493:GLU:O	14:1D:496:ARG:NH1	2.30	0.65
17:3e:172:SER:OG	17:3e:175:VAL:O	2.15	0.65
18:5b:336:LYS:NZ	18:5b:348:PRO:O	2.29	0.65
17:5g:172:SER:OG	17:5g:175:VAL:O	2.15	0.65
17:6a:267:MET:HE1	17:6a:305:PRO:HG3	1.79	0.65
17:6g:172:SER:OG	17:6g:175:VAL:O	2.15	0.65
18:7b:101:ASN:ND2	21:7b:501:GTP:O1G	2.30	0.65
18:7d:90:GLU:OE1	18:7d:121:ARG:NE	2.28	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:8d:11:GLN:N	21:8d:501:GTP:O1A	2.29	0.65
18:8d:88:HIS:CE1	18:8d:90:GLU:HB3	2.32	0.65
17:8g:20:PHE:HA	17:8g:230:SER:HB2	1.78	0.65
17:9a:378:PHE:HD1	17:9a:415:MET:HE3	1.61	0.65
18:9f:147:SER:HB2	18:9f:190:SER:HB3	1.77	0.65
18:Af:132:LEU:HB3	18:Af:164:LYS:HE2	1.79	0.65
18:Ah:90:GLU:OE1	18:Ah:121:ARG:NE	2.29	0.65
18:Bd:259:LEU:HB3	18:Bd:268:MET:HE1	1.79	0.65
17:Bg:218:THR:O	18:Bh:326:LYS:NZ	2.23	0.65
17:Cc:375:GLN:HG3	17:Cc:419:VAL:HG13	1.79	0.65
5:0M:137:GLN:O	5:0M:138:HIS:ND1	2.29	0.65
6:0O:32:LYS:HE3	6:0O:48:GLU:HG3	1.77	0.65
6:0O:135:ARG:NH2	20:Cg:501:GDP:N7	2.45	0.65
13:1C:1483:PRO:HB2	13:1C:1487:MET:HE1	1.77	0.65
18:3h:12:ALA:HB3	18:3h:140:ALA:HB2	1.78	0.65
18:4b:325:PRO:HA	18:4b:328:VAL:HG12	1.79	0.65
17:4e:172:SER:OG	17:4e:175:VAL:O	2.14	0.65
18:5h:12:ALA:HB3	18:5h:140:ALA:HB2	1.78	0.65
18:7b:90:GLU:OE1	18:7b:121:ARG:NE	2.30	0.65
17:8c:330:MET:HE2	17:8c:349:VAL:HG13	1.79	0.65
17:Be:87:PRO:HG3	17:Ce:281:TYR:HB3	1.77	0.65
17:Be:172:SER:OG	17:Be:175:VAL:O	2.15	0.65
18:Db:76:ASP:OD2	17:Dc:46:ARG:NH2	2.30	0.65
18:Dh:259:LEU:HD13	18:Dh:268:MET:HE1	1.78	0.65
3:0I:450:THR:HA	3:0I:489:PRO:HB3	1.79	0.64
7:0Q:46:ASN:HD21	7:0Q:322:SER:HB3	1.62	0.64
7:0S:65:MET:HE3	7:0S:66:SER:H	1.63	0.64
14:1E:929:ARG:HG2	14:1E:960:TRP:CE2	2.32	0.64
14:1G:551:GLY:H	14:1G:576:ARG:NH2	1.94	0.64
17:1c:20:PHE:HA	17:1c:230:SER:HB2	1.79	0.64
21:4b:501:GTP:O1B	17:4c:252:LYS:NZ	2.28	0.64
18:6d:12:ALA:HB3	18:6d:140:ALA:HB2	1.79	0.64
17:6e:100:ASN:HB3	17:6e:103:LYS:HB2	1.78	0.64
18:6f:12:ALA:HB3	18:6f:140:ALA:HB2	1.79	0.64
17:6g:293:MET:HE3	17:6g:367:PHE:HB2	1.78	0.64
17:8a:52:ASN:OD1	17:8a:62:ARG:NH2	2.30	0.64
17:8a:318:ARG:HB3	17:8a:357:PRO:HA	1.78	0.64
18:9b:325:PRO:HA	18:9b:328:VAL:HG12	1.79	0.64
17:9g:30:ILE:HD11	17:9g:47:ILE:HD11	1.79	0.64
17:Ba:30:ILE:HD11	17:Ba:47:ILE:HD11	1.79	0.64
18:Bd:272:TYR:HB3	18:Bd:275:ILE:HD11	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Dc:220:PRO:HD2	18:Dd:326:LYS:HD3	1.79	0.64
1:0B:116:ASP:HA	1:0B:119:LEU:HD12	1.79	0.64
3:0J:161:LEU:HD12	3:0J:174:MET:HE2	1.78	0.64
3:0J:322:ARG:HE	3:0J:326:TYR:HE2	1.43	0.64
3:0J:482:LEU:HD23	3:0J:495:VAL:HG22	1.79	0.64
7:0Q:589:ALA:HB3	7:0Q:607:ALA:HB1	1.78	0.64
12:0Y:131:LYS:NZ	12:0Y:224:THR:OG1	2.30	0.64
13:1B:1676:ARG:NH1	18:Bf:422:ARG:HG3	2.11	0.64
17:1c:375:GLN:HG3	17:1c:419:VAL:HG13	1.78	0.64
18:6f:399:TYR:O	18:6f:402:ARG:NH1	2.30	0.64
18:8f:237:SER:HA	18:8f:320:ARG:HD2	1.79	0.64
18:9h:265:ILE:HD13	18:9h:313:MET:HE1	1.79	0.64
17:Cc:268:VAL:HG23	17:Cc:300:MET:HE3	1.80	0.64
1:0B:146:SER:HA	1:0B:149:TRP:NE1	2.13	0.64
1:0C:582:GLN:H	1:0C:597:GLY:HA2	1.60	0.64
3:0I:496:ALA:O	14:1G:511:ASN:ND2	2.30	0.64
13:1B:1303:PRO:HA	13:1B:1306:ARG:HE	1.62	0.64
14:1D:883:ALA:O	14:1D:917:ARG:NH1	2.30	0.64
17:5c:30:ILE:HD11	17:5c:47:ILE:HD11	1.79	0.64
18:5d:206:ASN:OD1	21:5d:501:GTP:N2	2.30	0.64
18:8b:64:ARG:NH1	18:8b:129:CYS:SG	2.69	0.64
18:9h:237:SER:HA	18:9h:320:ARG:HD2	1.78	0.64
18:Bb:255:PHE:O	18:Bb:259:LEU:HB2	1.97	0.64
1:0B:578:GLU:OE1	1:0B:603:ARG:NH2	2.31	0.64
18:1d:12:ALA:HB3	18:1d:140:ALA:HB2	1.78	0.64
18:2f:267:PHE:HB2	18:2f:384:ILE:HD12	1.77	0.64
18:3b:76:ASP:OD2	17:3c:46:ARG:NH2	2.31	0.64
18:8b:258:ASN:ND2	18:8b:352:LYS:HG2	2.13	0.64
17:8e:397:TRP:CZ2	18:8f:256:GLN:HB3	2.32	0.64
18:Cd:255:PHE:O	18:Cd:259:LEU:HB2	1.98	0.64
1:0D:332:LEU:HB3	1:0D:341:LEU:HD11	1.77	0.64
7:0Q:424:THR:OG1	7:0Q:465:ILE:O	2.16	0.64
13:1C:1297:GLN:HG2	13:1C:1335:LEU:HA	1.78	0.64
17:3c:330:MET:HE3	17:3c:349:VAL:HG13	1.78	0.64
18:4f:259:LEU:HD13	18:4f:268:MET:HE2	1.80	0.64
18:5d:412:GLY:O	18:5d:413:MET:HE2	1.96	0.64
21:8b:501:GTP:O1B	17:8c:252:LYS:NZ	2.27	0.64
17:8c:200:MET:HG3	17:8c:266:PHE:HB2	1.79	0.64
18:8d:2:ARG:HB3	18:8d:242:LEU:HD12	1.80	0.64
17:Ae:52:ASN:OD1	17:Ae:62:ARG:NH2	2.31	0.64
18:Bb:101:ASN:ND2	21:Bb:501:GTP:O1G	2.31	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Cd:271:SER:HB3	18:Cd:301:MET:HE2	1.79	0.64
1:0D:346:ASP:HB2	2:0G:152:ARG:HH12	1.63	0.64
12:0Z:181:VAL:HG11	12:0Z:187:ALA:HB2	1.79	0.64
17:1g:172:SER:OG	17:1g:175:VAL:O	2.15	0.64
17:2a:207:LEU:HB3	17:2a:225:LEU:HD22	1.80	0.64
18:2b:101:ASN:ND2	21:2b:501:GTP:O1G	2.30	0.64
18:2b:398:MET:HE3	17:2c:346:PRO:HD2	1.80	0.64
18:2d:267:PHE:HB2	18:2d:384:ILE:HD12	1.79	0.64
17:3g:20:PHE:HA	17:3g:230:SER:HB2	1.77	0.64
17:7g:172:SER:OG	17:7g:175:VAL:O	2.14	0.64
17:8c:238:CYS:SG	17:8c:241:ARG:NH2	2.71	0.64
1:0D:458:LEU:HG	1:0D:467:LEU:HD11	1.79	0.64
3:0I:302:LEU:O	18:Bh:430:LYS:NZ	2.26	0.64
17:2e:268:VAL:HG23	17:2e:300:MET:HE2	1.80	0.64
18:2h:237:SER:HA	18:2h:320:ARG:HD2	1.79	0.64
18:5d:315:CYS:HB3	18:5d:377:MET:HE1	1.80	0.64
18:6d:64:ARG:NH1	18:6d:129:CYS:SG	2.71	0.64
18:7b:336:LYS:NZ	18:7b:348:PRO:O	2.31	0.64
18:9f:272:TYR:HB3	18:9f:275:ILE:HD11	1.78	0.64
18:Bf:101:ASN:ND2	21:Bf:501:GTP:O1G	2.31	0.64
6:0O:188:ILE:HG22	6:0O:189:THR:HG23	1.80	0.64
17:1a:20:PHE:HA	17:1a:230:SER:HB2	1.79	0.64
17:1c:238:CYS:SG	17:1c:241:ARG:NH2	2.71	0.64
17:1e:203:ASP:OD2	17:1e:302:ALA:N	2.26	0.64
17:2c:267:MET:HG3	17:2c:299:MET:HE2	1.80	0.64
18:3b:104:ALA:HB2	18:3b:413:MET:HE2	1.79	0.64
18:4h:201:ALA:O	18:4h:267:PHE:HA	1.98	0.64
17:7g:155:ILE:HB	17:7g:164:MET:HE1	1.79	0.64
17:Ag:207:LEU:HB3	17:Ag:225:LEU:HD22	1.77	0.64
18:Dh:147:SER:HB2	18:Dh:190:SER:HB3	1.79	0.64
3:0J:221:LEU:HD22	18:Bd:1:MET:HE1	1.79	0.64
5:0M:138:HIS:H	5:0M:140:LYS:HG2	1.63	0.64
5:0M:419:ASN:H	5:0M:422:MET:HE2	1.62	0.64
14:1F:400:ARG:HH12	14:1F:404:GLU:HA	1.63	0.64
18:3f:101:ASN:ND2	21:3f:501:GTP:O1G	2.31	0.64
18:3h:132:LEU:HB3	18:3h:164:LYS:HE2	1.79	0.64
17:6a:289:LEU:O	17:6a:293:MET:HG2	1.98	0.64
17:6a:330:MET:HG3	17:6a:349:VAL:HG11	1.79	0.64
18:7f:269:LEU:HB3	18:7f:301:MET:HE2	1.79	0.64
18:9b:101:ASN:ND2	17:9c:256:ASN:OD1	2.30	0.64
18:9d:178:SER:OG	17:9e:347:ASN:ND2	2.26	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ad:147:SER:HB2	18:Ad:190:SER:HB3	1.78	0.64
18:Ah:216:SER:O	18:Ah:280:LYS:NZ	2.30	0.64
18:Bb:325:PRO:HA	18:Bb:328:VAL:HG12	1.78	0.64
17:Bg:282:ARG:NH1	17:Bg:292:GLN:OE1	2.30	0.64
1:0A:146:SER:HA	1:0A:149:TRP:NE1	2.13	0.64
10:0V:69:UNK:O	17:3e:306:ARG:NH2	2.31	0.64
12:0Z:221:GLU:HA	12:0Z:233:VAL:HA	1.78	0.64
13:1C:1526:PHE:O	13:1C:1585:ALA:HA	1.97	0.64
17:6a:183:TYR:CE1	17:6a:388:MET:HE3	2.32	0.64
17:6a:263:LEU:O	17:6a:370:ASN:ND2	2.30	0.64
17:7c:163:MET:HE3	17:7c:251:ARG:HG3	1.80	0.64
17:8e:207:LEU:HB3	17:8e:225:LEU:HD22	1.80	0.64
17:Ce:40:SER:HB3	17:Ce:43:GLN:HE21	1.63	0.64
18:Cf:80:THR:O	18:Cf:84:ARG:NH2	2.31	0.64
17:Cg:198:GLU:HG3	17:Cg:266:PHE:HE2	1.62	0.64
17:Da:203:ASP:OD2	17:Da:302:ALA:N	2.23	0.64
5:0M:388:VAL:HG12	5:0M:392:MET:HE3	1.80	0.63
12:0Y:68:TYR:HB2	12:0Y:116:ARG:HE	1.62	0.63
13:1B:1659:ALA:CB	16:1M:22:UNK:C	2.76	0.63
17:2c:375:GLN:HG3	17:2c:419:VAL:HG13	1.80	0.63
17:5a:287:PRO:O	17:5a:291:GLN:HG3	1.98	0.63
18:5f:33:ASP:HA	18:5f:85:GLN:HE21	1.64	0.63
17:6a:293:MET:HE3	17:6a:367:PHE:HB2	1.81	0.63
18:Af:12:ALA:HB3	18:Af:140:ALA:HB2	1.80	0.63
18:Bb:147:SER:HB2	18:Bb:190:SER:HB3	1.80	0.63
17:Cc:30:ILE:HD11	17:Cc:47:ILE:HD11	1.80	0.63
3:0I:212:ARG:HG3	17:Cg:209:ASP:OD2	1.98	0.63
7:0S:215:GLY:HA3	7:0S:242:VAL:HG11	1.80	0.63
13:1B:1483:PRO:HB2	13:1B:1487:MET:HE1	1.80	0.63
13:1C:1501:LEU:HD12	13:1C:1609:PHE:HZ	1.64	0.63
17:5e:86:ARG:HH11	17:6e:281:TYR:HB3	1.62	0.63
17:7c:378:PHE:HD1	17:7c:415:MET:HE3	1.62	0.63
17:8e:30:ILE:HD11	17:8e:47:ILE:HD11	1.80	0.63
17:9a:252:LYS:NZ	21:9h:501:GTP:O1B	2.31	0.63
18:Ab:64:ARG:NH1	18:Ab:129:CYS:SG	2.71	0.63
17:Bg:203:ASP:OD2	17:Bg:302:ALA:N	2.27	0.63
1:0A:152:PHE:HD2	1:0D:149:TRP:HB2	1.64	0.63
7:0S:38:SER:H	7:0S:588:SER:HB2	1.63	0.63
12:0Y:88:PHE:HB3	12:0Y:240:VAL:HB	1.81	0.63
14:1D:1029:LEU:HD22	14:1D:1064:ALA:HB1	1.81	0.63
17:1c:163:MET:HE3	17:1c:251:ARG:NH1	2.13	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1e:375:GLN:HG3	17:1e:419:VAL:HG13	1.79	0.63
18:2f:398:MET:HE2	17:2g:345:ILE:HG23	1.80	0.63
18:3f:237:SER:HA	18:3f:320:ARG:HD2	1.80	0.63
18:5b:267:PHE:HB2	18:5b:384:ILE:HD12	1.80	0.63
18:8b:237:SER:HA	18:8b:320:ARG:HD2	1.81	0.63
18:9d:221:ARG:HG3	17:9e:322:SER:HB2	1.80	0.63
18:Ab:90:GLU:OE1	18:Ab:121:ARG:NE	2.32	0.63
18:Ad:1:MET:HE3	18:Ad:2:ARG:HH11	1.64	0.63
17:Bc:67:ASP:O	17:Bc:92:PHE:HA	1.97	0.63
18:Bh:211:ASP:OD1	18:Bh:214:ARG:NH1	2.28	0.63
18:Df:64:ARG:NH1	18:Df:129:CYS:SG	2.71	0.63
1:0C:325:HIS:NE2	1:0C:343:THR:OG1	2.30	0.63
1:0D:194:LEU:HD11	4:0L:106:LEU:HD21	1.80	0.63
17:1c:172:SER:OG	17:1c:175:VAL:O	2.17	0.63
17:1c:207:LEU:HD13	17:1c:225:LEU:HB3	1.79	0.63
18:1d:316:CYS:HB3	18:1d:378:ILE:HG23	1.81	0.63
18:2h:268:MET:HG3	18:2h:378:ILE:HD11	1.78	0.63
18:4h:325:PRO:HA	18:4h:328:VAL:HG12	1.80	0.63
17:8a:207:LEU:HB3	17:8a:225:LEU:HD22	1.81	0.63
17:8c:236:ILE:HG23	17:8c:237:THR:HG23	1.80	0.63
18:9b:147:SER:HB2	18:9b:190:SER:HB3	1.80	0.63
18:9b:272:TYR:HB3	18:9b:275:ILE:HD11	1.80	0.63
18:Bh:215:ARG:NH2	18:Bh:300:SER:HA	2.07	0.63
17:Cg:397:TRP:CZ2	18:Ch:256:GLN:HB3	2.33	0.63
17:De:98:GLY:HA2	18:Df:254:GLU:HG2	1.80	0.63
7:0Q:429:SER:HB3	7:0Q:433:ALA:H	1.63	0.63
12:0Y:11:ARG:NH2	12:0Y:64:GLN:OE1	2.32	0.63
12:0Y:59:LEU:HD23	12:0Y:62:VAL:HG11	1.78	0.63
13:1B:1738:ARG:NH2	13:1B:1750:TYR:O	2.31	0.63
13:1C:1302:PRO:HD2	13:1C:1305:LEU:HB2	1.80	0.63
17:2c:172:SER:OG	17:2c:175:VAL:O	2.17	0.63
18:2d:325:PRO:HA	18:2d:328:VAL:HG12	1.80	0.63
18:4b:101:ASN:HA	18:4b:144:GLY:H	1.64	0.63
17:4e:215:LEU:O	17:4e:276:ARG:NH1	2.31	0.63
18:4f:237:SER:HA	18:4f:320:ARG:HD2	1.79	0.63
18:4h:147:SER:HB2	18:4h:190:SER:HB3	1.80	0.63
17:6e:207:LEU:HB3	17:6e:225:LEU:HD22	1.79	0.63
17:7a:66:MET:HE3	17:7a:116:VAL:HG21	1.80	0.63
18:8f:101:ASN:ND2	21:8f:501:GTP:O1G	2.32	0.63
18:9d:259:LEU:HB3	18:9d:268:MET:HE1	1.80	0.63
17:Ae:139:LEU:HD12	17:Ae:170:VAL:HG22	1.81	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ba:289:LEU:HD22	17:Ba:363:MET:HE3	1.80	0.63
18:Bh:160:ASP:OD1	18:Bh:161:TYR:N	2.28	0.63
12:0X:221:GLU:HA	12:0X:233:VAL:HA	1.79	0.63
14:1D:911:LEU:HB2	14:1G:400:ARG:HH12	1.63	0.63
17:3e:20:PHE:HA	17:3e:230:SER:HB2	1.79	0.63
18:3f:325:PRO:HA	18:3f:328:VAL:HG12	1.80	0.63
17:6c:100:ASN:HB3	17:6c:103:LYS:HB2	1.79	0.63
17:6g:27:GLU:OE2	17:6g:318:ARG:NH2	2.31	0.63
17:7g:273:LEU:H	17:7g:292:GLN:HE22	1.45	0.63
17:8e:198:GLU:HG3	17:8e:266:PHE:HE2	1.62	0.63
17:8e:334:GLN:NE2	17:8e:346:PRO:O	2.28	0.63
18:9d:64:ARG:NH1	18:9d:129:CYS:SG	2.72	0.63
1:0A:198:TYR:O	1:0A:202:MET:HG2	1.99	0.63
3:0J:311:ARG:HH22	18:Bd:193:SER:HA	1.63	0.63
13:1B:1481:SER:HA	13:1B:1498:LEU:HD12	1.81	0.63
18:4f:316:CYS:HB3	18:4f:378:ILE:HG23	1.81	0.63
18:5d:325:PRO:HA	18:5d:328:VAL:HG12	1.79	0.63
18:6d:101:ASN:ND2	21:6d:501:GTP:O1G	2.31	0.63
18:8b:336:LYS:NZ	18:8b:348:PRO:O	2.31	0.63
17:De:267:MET:HE1	17:De:373:ALA:HB3	1.80	0.63
18:Df:88:HIS:HB3	18:Df:91:GLN:HB2	1.81	0.63
1:0B:334:LEU:HD13	1:0B:585:LEU:HD23	1.79	0.63
14:1E:493:GLU:O	14:1E:496:ARG:NH1	2.32	0.63
14:1F:1005:ARG:NH1	14:1F:1008:GLU:OE2	2.32	0.63
17:1c:30:ILE:HD11	17:1c:47:ILE:HD11	1.80	0.63
18:1d:147:SER:HB2	18:1d:190:SER:HB3	1.81	0.63
18:1d:325:PRO:HA	18:1d:328:VAL:HG12	1.81	0.63
17:1g:207:LEU:HB3	17:1g:225:LEU:HD22	1.80	0.63
18:3f:267:PHE:HB2	18:3f:384:ILE:HD12	1.79	0.63
18:3f:336:LYS:NZ	18:3f:348:PRO:O	2.32	0.63
17:4e:198:GLU:HG3	17:4e:266:PHE:CE2	2.34	0.63
18:5b:12:ALA:HB3	18:5b:140:ALA:HB2	1.80	0.63
17:5g:375:GLN:HG3	17:5g:419:VAL:HG13	1.81	0.63
18:7f:90:GLU:OE1	18:7f:121:ARG:NE	2.30	0.63
17:8g:238:CYS:SG	17:8g:241:ARG:NH2	2.72	0.63
17:9a:322:SER:HB2	18:9h:221:ARG:HG3	1.80	0.63
17:9c:20:PHE:HA	17:9c:230:SER:HB2	1.80	0.63
18:Ab:12:ALA:HB3	18:Ab:140:ALA:HB2	1.79	0.63
17:Ae:100:ASN:HB3	17:Ae:103:LYS:HB2	1.80	0.63
17:Ce:375:GLN:HG3	17:Ce:419:VAL:HG13	1.80	0.63
1:0C:196:LYS:HB2	4:0K:98:ARG:NH2	2.12	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:0J:154:TRP:CH2	17:Bc:392:LYS:HG3	2.34	0.63
12:0X:355:GLU:HA	12:0X:358:ILE:HG22	1.81	0.63
13:1B:1413:PRO:HD2	13:1B:1749:ARG:HH12	1.62	0.63
18:1d:2:ARG:HB3	18:1d:242:LEU:HD12	1.80	0.63
18:2h:325:PRO:HA	18:2h:328:VAL:HG12	1.80	0.63
17:3a:238:CYS:SG	17:3a:241:ARG:NH2	2.71	0.63
17:3e:330:MET:HE3	17:3e:349:VAL:HG13	1.81	0.63
17:3e:391:ARG:NH2	18:3f:438:GLU:O	2.32	0.63
18:4b:336:LYS:NZ	18:4b:348:PRO:O	2.32	0.63
18:6f:311:LYS:H	18:6f:382:THR:HG22	1.64	0.63
17:7c:397:TRP:CZ3	18:7d:257:THR:HB	2.34	0.63
17:7e:30:ILE:HD11	17:7e:47:ILE:HD11	1.80	0.63
17:8c:30:ILE:HD11	17:8c:47:ILE:HD11	1.81	0.63
18:8h:12:ALA:HB3	18:8h:140:ALA:HB2	1.80	0.63
18:8h:55:GLU:O	18:9h:285:GLN:NE2	2.32	0.63
18:9b:64:ARG:NH1	18:9b:129:CYS:SG	2.72	0.63
17:Aa:229:ILE:HG22	17:Aa:233:MET:HE2	1.81	0.63
17:Ag:204:ASN:HA	17:Ag:207:LEU:HD12	1.81	0.63
18:Dd:88:HIS:HB3	18:Dd:91:GLN:HB2	1.81	0.63
17:Dg:172:SER:OG	17:Dg:175:VAL:O	2.16	0.63
1:0D:419:HIS:HB3	1:0D:422:GLY:H	1.63	0.62
4:0K:174:LYS:HZ1	18:Bf:390:ARG:HA	1.64	0.62
5:0M:193:VAL:HG11	5:0M:217:LEU:HD11	1.81	0.62
13:1B:1133:ASN:HD21	13:1B:1476:TRP:CG	2.17	0.62
18:1f:223:THR:OG1	17:1g:245:GLN:OE1	2.17	0.62
17:2g:286:VAL:HG22	17:2g:321:MET:HE3	1.81	0.62
18:3f:398:MET:HE2	17:3g:346:PRO:HD2	1.81	0.62
17:6a:100:ASN:HB3	17:6a:103:LYS:HB2	1.81	0.62
17:6a:198:GLU:HG3	17:6a:266:PHE:HE2	1.64	0.62
17:8c:388:MET:HE1	18:8d:347:CYS:HA	1.79	0.62
17:9e:377:MET:HG3	17:9e:380:ARG:HH12	1.63	0.62
17:Be:203:ASP:OD2	17:Be:302:ALA:N	2.29	0.62
18:Cd:101:ASN:ND2	21:Cd:501:GTP:O1G	2.31	0.62
18:Dh:325:PRO:HA	18:Dh:328:VAL:HG12	1.81	0.62
1:0C:419:HIS:HB3	1:0C:422:GLY:H	1.64	0.62
13:1C:1390:GLU:HG3	13:1C:1404:GLU:HG2	1.79	0.62
14:1G:790:LEU:HD11	14:1G:841:ALA:HB2	1.81	0.62
18:1b:267:PHE:HB2	18:1b:384:ILE:HD12	1.80	0.62
17:2a:172:SER:OG	17:2a:175:VAL:O	2.17	0.62
17:3g:52:ASN:OD1	17:3g:62:ARG:NH2	2.32	0.62
18:5h:104:ALA:HB2	18:5h:413:MET:HG3	1.80	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:6e:334:GLN:NE2	17:6e:346:PRO:O	2.29	0.62
17:6e:375:GLN:HG3	17:6e:419:VAL:HG13	1.81	0.62
17:8c:131:GLN:O	17:8c:163:MET:HB3	1.98	0.62
17:8e:321:MET:HB3	17:8e:363:MET:HE2	1.81	0.62
18:8h:252:ILE:O	18:8h:256:GLN:NE2	2.32	0.62
18:Ah:132:LEU:HB3	18:Ah:164:LYS:HE2	1.79	0.62
6:0O:187:ILE:HD11	17:Bg:227:HIS:HB3	1.80	0.62
7:0Q:21:SER:HB3	7:0Q:300:LEU:HD23	1.80	0.62
7:0Q:299:PHE:HD2	7:0Q:311:LEU:HD23	1.64	0.62
13:1B:1526:PHE:O	13:1B:1585:ALA:HA	1.98	0.62
14:1D:1039:CYS:HA	14:1D:1042:GLU:HB2	1.81	0.62
18:1d:206:ASN:OD1	21:1d:501:GTP:N2	2.32	0.62
18:4b:4:VAL:HG22	18:4b:133:GLN:HB2	1.81	0.62
17:4g:213:ARG:HH21	17:4g:297:LYS:HD2	1.64	0.62
18:7d:237:SER:HA	18:7d:320:ARG:HD2	1.80	0.62
17:7e:391:ARG:HD2	18:7f:346:TRP:HB3	1.81	0.62
18:8f:325:PRO:HA	18:8f:328:VAL:HG12	1.81	0.62
21:9d:501:GTP:O1B	17:9e:252:LYS:NZ	2.33	0.62
17:9g:7:ILE:HD13	17:9g:151:LEU:HD21	1.82	0.62
18:Ah:325:PRO:HA	18:Ah:328:VAL:HG12	1.81	0.62
17:Ba:232:VAL:HG11	17:Ba:268:VAL:HG21	1.80	0.62
18:Bd:336:LYS:NZ	18:Bd:348:PRO:O	2.32	0.62
17:Cc:203:ASP:OD2	17:Cc:302:ALA:N	2.26	0.62
2:0G:108:GLN:NE2	2:0G:123:VAL:HG21	2.14	0.62
3:0I:482:LEU:HD23	3:0I:495:VAL:HG22	1.80	0.62
5:0M:347:GLY:HA2	18:Df:221:ARG:HB2	1.80	0.62
14:1E:999:TYR:HB3	14:1E:1008:GLU:HG2	1.81	0.62
17:1a:375:GLN:HG3	17:1a:419:VAL:HG13	1.80	0.62
18:1b:217:LEU:HD21	18:1b:368:LEU:HD23	1.81	0.62
18:1f:147:SER:HB2	18:1f:190:SER:HB3	1.82	0.62
18:2f:336:LYS:NZ	18:2f:348:PRO:O	2.32	0.62
17:3a:52:ASN:OD1	17:3a:62:ARG:NH2	2.32	0.62
18:3b:2:ARG:HB3	18:3b:242:LEU:HD12	1.81	0.62
17:3g:207:LEU:HB3	17:3g:225:LEU:HD22	1.82	0.62
17:4e:267:MET:HE2	17:4e:299:MET:HG3	1.81	0.62
17:5c:86:ARG:HD3	17:5c:87:PRO:HD2	1.82	0.62
18:5d:90:GLU:OE1	18:5d:121:ARG:NE	2.32	0.62
18:6b:64:ARG:NH1	18:6b:129:CYS:SG	2.72	0.62
18:6f:203:MET:HE1	18:6f:384:ILE:HB	1.81	0.62
17:6g:30:ILE:HD11	17:6g:47:ILE:HD11	1.82	0.62
17:8g:86:ARG:HH11	17:9g:281:TYR:HD2	1.47	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9h:399:TYR:O	18:9h:402:ARG:NH1	2.30	0.62
18:Ab:316:CYS:HB3	18:Ab:378:ILE:HG23	1.81	0.62
17:Ba:317:PHE:HB3	17:Ba:321:MET:HE1	1.81	0.62
17:Bc:54:ALA:HB3	17:Bc:58:ARG:HB3	1.82	0.62
17:Cc:20:PHE:HA	17:Cc:230:SER:HB2	1.80	0.62
18:Ch:259:LEU:HD21	18:Ch:316:CYS:HB2	1.81	0.62
17:Da:226:ASN:OD1	20:Da:501:GDP:N1	2.29	0.62
17:Dc:73:MET:HE2	17:Dc:92:PHE:HB3	1.81	0.62
17:Dg:72:THR:O	17:Dg:75:SER:OG	2.16	0.62
1:0A:135:LEU:HB2	1:0D:135:LEU:HD13	1.81	0.62
1:0B:332:LEU:HD22	1:0B:341:LEU:HD21	1.81	0.62
7:0Q:149:ILE:HD13	7:0Q:170:ALA:HB2	1.82	0.62
14:1D:504:ASN:OD1	14:1D:505:GLU:N	2.32	0.62
17:1c:219:THR:HA	18:1d:326:LYS:HZ1	1.63	0.62
18:2h:267:PHE:HB2	18:2h:384:ILE:HD12	1.80	0.62
17:4e:100:ASN:HB3	17:4e:103:LYS:HB2	1.81	0.62
18:5h:90:GLU:OE1	18:5h:121:ARG:NE	2.32	0.62
17:9e:173:PRO:HA	17:9e:380:ARG:NE	2.14	0.62
17:Ag:215:LEU:HB3	17:Ag:217:LEU:HD13	1.82	0.62
18:Bd:180:ALA:HB3	18:Bd:183:GLU:HB2	1.82	0.62
1:0A:141:ILE:HD12	1:0A:144:ARG:HD2	1.82	0.62
1:0A:368:LYS:NZ	2:0H:40:ASP:OD2	2.32	0.62
1:0C:407:THR:O	1:0C:410:LYS:NZ	2.32	0.62
1:0D:190:THR:HG22	4:0L:105:LEU:HB3	1.81	0.62
12:0X:169:SER:HG	12:0X:342:ASN:ND2	1.97	0.62
18:1h:147:SER:HB2	18:1h:190:SER:HB3	1.82	0.62
17:2c:286:VAL:HG22	17:2c:321:MET:HE3	1.82	0.62
18:5f:221:ARG:HH21	17:5g:325:GLU:HB2	1.65	0.62
18:Af:2:ARG:HB3	18:Af:242:LEU:HD12	1.80	0.62
17:Ca:52:ASN:OD1	17:Ca:62:ARG:NH2	2.32	0.62
17:Dc:66:MET:HE3	17:Dc:116:VAL:HG21	1.81	0.62
18:Df:237:SER:HA	18:Df:320:ARG:HD2	1.82	0.62
18:Df:325:PRO:HA	18:Df:328:VAL:HG12	1.81	0.62
17:Dg:282:ARG:NH1	17:Dg:292:GLN:OE1	2.30	0.62
1:0C:458:LEU:HG	1:0C:467:LEU:HD11	1.81	0.62
12:0X:84:ASN:ND2	12:0X:303:ASN:O	2.32	0.62
21:1d:501:GTP:O1B	17:1e:252:LYS:NZ	2.33	0.62
18:2f:101:ASN:ND2	21:2f:501:GTP:O1G	2.32	0.62
17:7c:86:ARG:HG2	17:7c:88:ASP:H	1.65	0.62
18:7d:12:ALA:HB3	18:7d:140:ALA:HB2	1.81	0.62
17:7e:20:PHE:HA	17:7e:230:SER:HB2	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8e:100:ASN:HB3	17:8e:103:LYS:HB2	1.82	0.62
18:9b:399:TYR:O	18:9b:402:ARG:NH1	2.33	0.62
17:Bg:140:GLY:HA2	17:Bg:184:ASN:HB2	1.82	0.62
18:Dh:101:ASN:ND2	21:Dh:501:GTP:O1G	2.33	0.62
1:0A:102:LEU:HD12	1:0D:88:LEU:HD23	1.82	0.62
1:0D:194:LEU:HD21	4:0L:106:LEU:HD11	1.82	0.62
14:1G:1005:ARG:NH1	14:1G:1008:GLU:OE2	2.33	0.62
17:1a:66:MET:HE3	17:1a:116:VAL:HG21	1.82	0.62
18:1d:267:PHE:HB2	18:1d:384:ILE:HD12	1.81	0.62
17:3a:172:SER:OG	17:3a:175:VAL:O	2.17	0.62
17:3e:215:LEU:HB3	17:3e:217:LEU:HD13	1.82	0.62
18:3f:12:ALA:HB3	18:3f:140:ALA:HB2	1.80	0.62
18:8b:268:MET:HE2	18:8b:378:ILE:HG12	1.80	0.62
17:8g:133:PHE:HB2	17:8g:164:MET:HE1	1.81	0.62
3:0J:217:ARG:HH11	3:0J:219:LEU:HD21	1.64	0.62
5:0N:624:ASP:OD1	5:0N:625:THR:N	2.33	0.62
6:0P:94:TYR:OH	17:Dc:77:ARG:NH1	2.32	0.62
12:0Y:137:VAL:HG21	12:0Y:190:GLN:NE2	2.15	0.62
17:2c:207:LEU:HB3	17:2c:225:LEU:HD22	1.81	0.62
17:4a:73:MET:SD	17:4a:92:PHE:HB3	2.39	0.62
17:4a:207:LEU:HB3	17:4a:225:LEU:HD22	1.81	0.62
17:6g:207:LEU:HB3	17:6g:225:LEU:HD22	1.81	0.62
17:9a:242:PHE:HB3	17:9a:356:ILE:HD12	1.80	0.62
17:Ag:381:VAL:HB	17:Ag:415:MET:HE1	1.82	0.62
13:1B:1177:THR:HG22	13:1B:1290:VAL:HB	1.81	0.62
14:1F:1025:SER:HA	14:1F:1028:LEU:HD12	1.81	0.62
14:1G:1025:SER:HA	14:1G:1028:LEU:HD12	1.81	0.62
17:1c:267:MET:HE1	17:1c:373:ALA:HB3	1.81	0.62
17:2c:330:MET:HB3	17:2c:349:VAL:HG21	1.82	0.62
18:2h:123:ARG:NH2	18:3h:297:GLU:OE2	2.32	0.62
17:5e:67:ASP:O	17:5e:92:PHE:HA	1.99	0.62
18:5f:9:ILE:HD11	18:5f:153:LEU:HD23	1.80	0.62
17:6g:375:GLN:HG3	17:6g:419:VAL:HG13	1.82	0.62
18:8f:90:GLU:OE1	18:8f:121:ARG:NE	2.31	0.62
18:Dh:64:ARG:NH1	18:Dh:129:CYS:SG	2.73	0.62
18:Dh:336:LYS:NZ	18:Dh:348:PRO:O	2.33	0.62
1:0C:335:HIS:HE2	1:0C:380:GLY:HA3	1.65	0.61
1:0D:202:MET:HE3	18:Ch:396:ASP:OD1	2.00	0.61
12:0X:171:THR:O	12:0X:236:LYS:NZ	2.31	0.61
13:1C:1120:GLY:HA2	13:1C:1614:ARG:HH22	1.65	0.61
13:1C:1272:PRO:HB2	13:1C:1284:ARG:HH11	1.65	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1C:1738:ARG:NH2	13:1C:1750:TYR:O	2.33	0.61
14:1E:911:LEU:HG	14:1F:400:ARG:HD3	1.83	0.61
18:1b:101:ASN:ND2	21:1b:501:GTP:O1G	2.33	0.61
17:1c:215:LEU:HB3	17:1c:217:LEU:HD13	1.82	0.61
18:1d:251:ASP:HB2	18:1d:254:GLU:HG3	1.82	0.61
18:3h:237:SER:HA	18:3h:320:ARG:HD2	1.82	0.61
17:4a:172:SER:OG	17:4a:175:VAL:O	2.17	0.61
18:6h:9:ILE:HD11	18:6h:153:LEU:HD23	1.81	0.61
17:7c:207:LEU:HB3	17:7c:225:LEU:HD22	1.81	0.61
17:8c:67:ASP:OD2	17:8c:72:THR:OG1	2.14	0.61
18:Ah:64:ARG:NH1	18:Ah:129:CYS:SG	2.73	0.61
17:Da:7:ILE:HD13	17:Da:151:LEU:HD21	1.82	0.61
17:Dc:52:ASN:OD1	17:Dc:62:ARG:NH2	2.33	0.61
17:De:220:PRO:HD2	18:Df:326:LYS:HD3	1.81	0.61
17:Dg:163:MET:HE2	17:Dg:251:ARG:HA	1.81	0.61
1:0A:149:TRP:HB3	1:0D:149:TRP:HB3	1.82	0.61
1:0B:102:LEU:HD12	1:0C:88:LEU:HD23	1.81	0.61
2:0F:88:MET:HE1	18:1f:339:ARG:HH11	1.64	0.61
12:0Y:137:VAL:HG21	12:0Y:190:GLN:HE21	1.64	0.61
12:0Z:169:SER:HG	12:0Z:342:ASN:ND2	1.98	0.61
13:1B:1234:ILE:HD11	13:1B:1269:PHE:HB3	1.82	0.61
14:1F:666:LEU:HG	14:1F:670:TYR:CE1	2.35	0.61
14:1G:666:LEU:HD12	14:1G:669:VAL:HB	1.80	0.61
18:1b:2:ARG:HB3	18:1b:242:LEU:HD12	1.82	0.61
18:1f:12:ALA:HB3	18:1f:140:ALA:HB2	1.80	0.61
17:8c:207:LEU:HB3	17:8c:225:LEU:HD22	1.82	0.61
18:8f:12:ALA:HB3	18:8f:140:ALA:HB2	1.82	0.61
18:8f:398:MET:HE2	17:8g:346:PRO:HD2	1.82	0.61
18:9b:267:PHE:HB2	18:9b:384:ILE:HD12	1.81	0.61
18:Af:180:ALA:HB3	18:Af:183:GLU:HB2	1.81	0.61
17:Ag:66:MET:HE3	17:Ag:116:VAL:HG21	1.81	0.61
21:Cb:501:GTP:O1B	17:Cc:252:LYS:NZ	2.32	0.61
17:Cg:377:MET:HG3	17:Cg:380:ARG:HH22	1.64	0.61
1:0B:135:LEU:HB2	1:0C:135:LEU:HD13	1.81	0.61
5:0M:40:THR:HA	5:0M:54:PRO:HD3	1.82	0.61
12:1A:59:LEU:HD23	12:1A:62:VAL:HG11	1.81	0.61
14:1G:820:THR:OG1	14:1G:821:PRO:HD3	2.00	0.61
18:4h:9:ILE:HD11	18:4h:153:LEU:HD23	1.81	0.61
17:5a:49:VAL:O	17:5a:62:ARG:NH1	2.33	0.61
17:6c:207:LEU:HB3	17:6c:225:LEU:HD22	1.82	0.61
18:8d:88:HIS:HE1	18:8d:90:GLU:HB3	1.64	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:9a:140:GLY:HA2	17:9a:184:ASN:HB2	1.81	0.61
18:Ab:180:ALA:HB3	18:Ab:183:GLU:HB2	1.83	0.61
17:Ae:30:ILE:HD11	17:Ae:47:ILE:HD11	1.80	0.61
18:Ch:244:PHE:O	18:Ch:356:ASN:ND2	2.30	0.61
17:Dg:203:ASP:OD2	17:Dg:302:ALA:N	2.27	0.61
1:0C:299:ARG:HH21	1:0C:465:SER:HB3	1.66	0.61
3:0I:143:LYS:HD3	17:Bg:410:GLU:HG3	1.82	0.61
7:0S:424:THR:OG1	7:0S:465:ILE:O	2.18	0.61
12:1A:68:TYR:HB2	12:1A:116:ARG:HE	1.65	0.61
13:1B:1120:GLY:HA2	13:1B:1614:ARG:HH22	1.65	0.61
14:1E:407:PRO:HB2	14:1E:409:ARG:HH12	1.64	0.61
17:3a:67:ASP:OD2	17:3a:72:THR:OG1	2.16	0.61
17:3a:207:LEU:HB3	17:3a:225:LEU:HD22	1.81	0.61
17:4e:220:PRO:HG2	18:4f:326:LYS:CE	2.28	0.61
18:4f:399:TYR:O	18:4f:402:ARG:NH1	2.32	0.61
17:5e:282:ARG:NH1	17:5e:292:GLN:OE1	2.32	0.61
18:5f:180:ALA:HB3	18:5f:183:GLU:HB2	1.83	0.61
18:6d:320:ARG:HB2	18:6d:374:ALA:HB3	1.83	0.61
17:7a:100:ASN:HB3	17:7a:103:LYS:HB2	1.82	0.61
18:7h:408:TYR:HB3	18:7h:413:MET:HE1	1.82	0.61
18:9d:399:TYR:O	18:9d:402:ARG:NH1	2.28	0.61
17:9g:207:LEU:HB3	17:9g:225:LEU:HD22	1.82	0.61
17:Ba:139:LEU:HD12	17:Ba:170:VAL:HG22	1.82	0.61
1:0C:328:SER:OG	2:0E:152:ARG:NH2	2.34	0.61
1:0C:512:THR:HB	1:0C:539:ALA:HB3	1.82	0.61
5:0M:68:THR:HG23	17:Ce:41:ASP:HB3	1.82	0.61
9:0U:166:UNK:O	17:5a:306:ARG:NH1	2.33	0.61
17:2g:378:PHE:HD1	17:2g:415:MET:HE3	1.64	0.61
18:3d:147:SER:HB2	18:3d:190:SER:HB3	1.80	0.61
17:3e:219:THR:HG22	18:3f:326:LYS:HZ3	1.65	0.61
17:4a:252:LYS:NZ	21:4h:501:GTP:O1B	2.29	0.61
18:5d:9:ILE:HD11	18:5d:153:LEU:HD23	1.81	0.61
17:7e:73:MET:SD	17:7e:92:PHE:HB3	2.41	0.61
17:7e:374:ILE:O	17:7e:377:MET:HG3	2.00	0.61
18:Af:9:ILE:HD11	18:Af:153:LEU:HD23	1.82	0.61
18:Cb:147:SER:HB2	18:Cb:190:SER:HB3	1.83	0.61
18:Cb:276:ILE:HG22	18:Cb:280:LYS:HE2	1.81	0.61
7:0Q:72:LEU:HD22	7:0Q:107:VAL:HG21	1.83	0.61
7:0S:460:MET:HE2	7:0S:495:ARG:NH1	2.09	0.61
13:1B:1709:MET:HE2	13:1B:1709:MET:HA	1.82	0.61
18:3b:217:LEU:HD21	18:3b:368:LEU:HD23	1.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:4d:147:SER:HB2	18:4d:190:SER:HB3	1.81	0.61
17:5a:30:ILE:HD11	17:5a:47:ILE:HD11	1.81	0.61
17:7c:20:PHE:HA	17:7c:230:SER:HB2	1.83	0.61
17:8a:20:PHE:HA	17:8a:230:SER:HB2	1.82	0.61
17:8c:317:PHE:HB2	17:8c:321:MET:HE1	1.82	0.61
17:8e:74:ASP:OD1	17:8e:77:ARG:NH2	2.33	0.61
17:8g:253:LEU:HD11	17:8g:316:LEU:HD21	1.82	0.61
17:9e:67:ASP:O	17:9e:92:PHE:HA	2.00	0.61
17:9e:321:MET:HE3	17:9e:363:MET:HE3	1.82	0.61
18:9h:251:ASP:OD1	18:9h:252:ILE:N	2.34	0.61
18:Ad:285:GLN:HE21	18:Ad:290:GLU:HG3	1.64	0.61
18:Ah:276:ILE:HG22	18:Ah:280:LYS:HE2	1.81	0.61
18:Bb:9:ILE:HD11	18:Bb:153:LEU:HD23	1.82	0.61
18:Dd:2:ARG:HB3	18:Dd:242:LEU:HD12	1.81	0.61
18:Dd:76:ASP:OD2	17:De:46:ARG:NH2	2.34	0.61
1:0A:431:ASP:OD2	1:0A:433:THR:OG1	2.19	0.61
7:0S:446:VAL:HB	7:0S:456:ALA:HB3	1.82	0.61
13:1B:1691:THR:HG23	18:Bf:263:PRO:HB2	1.82	0.61
13:1C:1610:GLU:HG3	13:1C:1736:ARG:HB2	1.81	0.61
14:1F:874:GLU:OE2	14:1F:877:ARG:NH2	2.33	0.61
18:1b:336:LYS:NZ	18:1b:348:PRO:O	2.34	0.61
17:1e:232:VAL:O	17:1e:236:ILE:HG12	2.00	0.61
17:2a:252:LYS:NZ	21:2h:501:GTP:O1B	2.29	0.61
17:2e:391:ARG:HD3	18:2f:346:TRP:HB2	1.82	0.61
18:4f:160:ASP:OD1	18:4f:161:TYR:N	2.33	0.61
18:4h:237:SER:HA	18:4h:320:ARG:HD2	1.83	0.61
18:5d:12:ALA:HB3	18:5d:140:ALA:HB2	1.82	0.61
17:5g:27:GLU:OE2	17:5g:318:ARG:NH2	2.34	0.61
18:6h:180:ALA:HB3	18:6h:183:GLU:HB2	1.83	0.61
18:7d:336:LYS:NZ	18:7d:348:PRO:O	2.34	0.61
17:7g:198:GLU:HG3	17:7g:266:PHE:HE2	1.66	0.61
18:7h:237:SER:HA	18:7h:320:ARG:HD2	1.82	0.61
18:8f:398:MET:HE1	17:8g:345:ILE:HG12	1.83	0.61
18:Af:64:ARG:NH1	18:Af:129:CYS:SG	2.74	0.61
18:Af:412:GLY:O	18:Af:413:MET:HE2	2.00	0.61
18:Ah:180:ALA:HB3	18:Ah:183:GLU:HB2	1.81	0.61
17:Bc:140:GLY:HA2	17:Bc:184:ASN:HB2	1.82	0.61
17:Dg:100:ASN:HB3	17:Dg:103:LYS:HB2	1.82	0.61
3:0J:161:LEU:HD11	17:Bc:391:ARG:NH1	2.16	0.61
3:0J:228:LEU:HD12	17:Bc:92:PHE:CE2	2.35	0.61
5:0M:413:THR:O	17:Dg:320:ARG:NH1	2.31	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0N:257:ARG:NH2	18:Cb:367:ASP:OD1	2.28	0.61
12:0X:356:ARG:HA	12:0X:359:LYS:HE3	1.83	0.61
14:1G:654:VAL:O	14:1G:657:ARG:C	2.44	0.61
17:5a:172:SER:OG	17:5a:175:VAL:O	2.19	0.61
17:5c:7:ILE:HB	17:5c:135:VAL:HG22	1.83	0.61
17:5e:326:VAL:HG12	17:5e:330:MET:HE1	1.83	0.61
17:5g:52:ASN:OD1	17:5g:62:ARG:NH2	2.33	0.61
18:7b:101:ASN:HA	18:7b:144:GLY:H	1.65	0.61
18:7f:237:SER:HA	18:7f:320:ARG:HD2	1.82	0.61
17:7g:20:PHE:HA	17:7g:230:SER:HB2	1.83	0.61
18:9h:101:ASN:ND2	21:9h:501:GTP:O1G	2.33	0.61
18:Ad:237:SER:HA	18:Ad:320:ARG:HD2	1.82	0.61
18:Af:336:LYS:NZ	18:Af:348:PRO:O	2.33	0.61
17:Bg:207:LEU:HB3	17:Bg:225:LEU:HD22	1.82	0.61
17:Dc:67:ASP:OD2	17:Dc:72:THR:OG1	2.12	0.61
6:0P:50:VAL:HG11	17:1g:276:ARG:HE	1.66	0.61
7:0S:149:ILE:HD13	7:0S:170:ALA:HB2	1.83	0.61
12:1A:13:ARG:NH1	12:1A:94:GLY:O	2.33	0.61
12:1A:123:ARG:O	12:1A:127:MET:HG2	2.01	0.61
13:1B:1533:LEU:HD21	13:1B:1611:GLY:HA3	1.81	0.61
13:1B:1688:GLN:OE1	13:1B:1712:ARG:NH2	2.34	0.61
14:1G:667:ALA:O	14:1G:778:ARG:NH1	2.34	0.61
17:2e:30:ILE:HD11	17:2e:47:ILE:HD11	1.82	0.61
18:4h:267:PHE:HB2	18:4h:384:ILE:HD12	1.82	0.61
17:6g:318:ARG:HB3	17:6g:357:PRO:HA	1.83	0.61
18:Ad:9:ILE:HD11	18:Ad:153:LEU:HD23	1.82	0.61
17:Ba:52:ASN:OD1	17:Ba:62:ARG:NH2	2.32	0.61
17:Be:207:LEU:HB3	17:Be:225:LEU:HD22	1.82	0.61
18:Cb:237:SER:HA	18:Cb:320:ARG:HD2	1.81	0.61
17:Cg:30:ILE:HD11	17:Cg:47:ILE:HD11	1.82	0.61
1:0B:208:MET:HE1	1:0C:205:LYS:O	2.01	0.61
3:0J:154:TRP:HH2	17:Bc:389:PHE:O	1.83	0.61
5:0M:345:LEU:HD22	5:0M:352:ALA:HB1	1.82	0.61
10:0V:154:UNK:O	17:3a:329:GLN:NE2	2.29	0.61
12:0Z:106:THR:H	12:0Z:111:ARG:HG2	1.66	0.61
17:1c:293:MET:HE2	17:1c:367:PHE:HB2	1.82	0.61
17:1e:20:PHE:HA	17:1e:230:SER:HB2	1.83	0.61
17:3g:67:ASP:O	17:3g:92:PHE:HA	2.01	0.61
17:4e:267:MET:HG3	17:4e:299:MET:HE2	1.83	0.61
17:5g:238:CYS:SG	17:5g:241:ARG:NH2	2.72	0.61
18:5h:160:ASP:OD1	18:5h:161:TYR:N	2.34	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6d:267:PHE:HB2	18:6d:384:ILE:HD12	1.83	0.61
18:7f:398:MET:HE3	17:7g:346:PRO:HD2	1.83	0.61
18:7h:180:ALA:HB3	18:7h:183:GLU:HB2	1.83	0.61
17:8a:130:LEU:O	17:8a:162:ARG:NE	2.33	0.61
18:9d:21:TRP:CZ2	18:9d:65:CYS:HB2	2.36	0.61
17:9g:67:ASP:O	17:9g:92:PHE:HA	2.01	0.61
17:Ac:118:ASP:OD1	17:Ac:121:ARG:NH2	2.33	0.61
17:Bc:282:ARG:NH1	17:Bc:292:GLN:OE1	2.29	0.61
17:Dc:140:GLY:HA2	17:Dc:184:ASN:HB2	1.81	0.61
17:Dg:198:GLU:HG3	17:Dg:266:PHE:CE2	2.35	0.61
1:0C:355:MET:HA	1:0C:355:MET:HE3	1.81	0.60
2:0E:99:PHE:HE1	18:1h:308:ARG:HH22	1.47	0.60
3:0I:508:ARG:HH22	14:1G:942:MET:HA	1.64	0.60
3:0J:554:GLU:HB2	3:0J:558:ARG:HH21	1.66	0.60
4:0K:196:ILE:HG22	18:Af:156:ARG:HH22	1.66	0.60
13:1B:1501:LEU:HD12	13:1B:1609:PHE:HZ	1.65	0.60
17:1a:245:GLN:OE1	18:1h:223:THR:OG1	2.19	0.60
17:1c:317:PHE:CD2	17:1c:321:MET:HE1	2.36	0.60
17:7g:100:ASN:HB2	17:7g:397:TRP:CH2	2.35	0.60
18:7h:101:ASN:ND2	21:7h:501:GTP:O1G	2.34	0.60
17:8e:67:ASP:OD2	17:8e:72:THR:OG1	2.12	0.60
18:9b:2:ARG:HB3	18:9b:242:LEU:HD12	1.83	0.60
17:9e:282:ARG:NH1	17:9e:292:GLN:OE1	2.33	0.60
17:Ae:7:ILE:HD13	17:Ae:151:LEU:HD21	1.83	0.60
17:Bc:94:GLN:NE2	18:Bd:1:MET:O	2.34	0.60
18:Db:255:PHE:O	18:Db:259:LEU:HB2	2.01	0.60
17:Dg:139:LEU:HD12	17:Dg:170:VAL:HG22	1.83	0.60
1:0B:296:ALA:HB2	1:0B:482:ARG:HD3	1.82	0.60
3:0J:496:ALA:O	14:1F:511:ASN:ND2	2.34	0.60
7:0Q:38:SER:H	7:0Q:588:SER:HB2	1.66	0.60
7:0S:423:VAL:HG21	7:0S:437:SER:HB2	1.83	0.60
12:0X:134:ARG:HB2	12:0X:221:GLU:HB2	1.83	0.60
13:1C:1688:GLN:OE1	13:1C:1712:ARG:NH2	2.34	0.60
17:1a:229:ILE:O	17:1a:233:MET:HG3	2.01	0.60
17:1g:238:CYS:SG	17:1g:241:ARG:NH2	2.74	0.60
17:2a:375:GLN:HG3	17:2a:419:VAL:HG13	1.81	0.60
18:2h:269:LEU:HB3	18:2h:301:MET:HE2	1.82	0.60
17:6a:198:GLU:HG3	17:6a:266:PHE:CE2	2.36	0.60
18:6b:325:PRO:HA	18:6b:328:VAL:HG12	1.83	0.60
18:6f:9:ILE:HD11	18:6f:153:LEU:HD23	1.82	0.60
17:7a:163:MET:HE3	17:7a:251:ARG:NH1	2.15	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8e:247:ASN:C	17:8e:247:ASN:HD22	2.10	0.60
17:8g:100:ASN:HB3	17:8g:103:LYS:HB2	1.83	0.60
18:9b:316:CYS:HB3	18:9b:378:ILE:HG23	1.83	0.60
17:Ac:20:PHE:HA	17:Ac:230:SER:HB2	1.83	0.60
17:Ae:238:CYS:SG	17:Ae:241:ARG:NH2	2.74	0.60
18:Dd:147:SER:HB2	18:Dd:190:SER:HB3	1.83	0.60
1:0B:76:ASP:OD1	1:0B:80:ARG:NH2	2.34	0.60
1:0B:152:PHE:HD2	1:0C:149:TRP:HB2	1.66	0.60
3:0I:150:GLN:HA	3:0I:153:LYS:HG2	1.82	0.60
4:0K:115:ASP:HB2	4:0K:118:SER:HB3	1.82	0.60
14:1G:424:PHE:CG	14:1G:490:LEU:HD11	2.36	0.60
18:1b:76:ASP:OD2	17:1c:46:ARG:NH2	2.34	0.60
17:4e:207:LEU:HD13	17:4e:225:LEU:HB3	1.83	0.60
18:6f:336:LYS:NZ	18:6f:348:PRO:O	2.34	0.60
17:7a:172:SER:OG	17:7a:175:VAL:O	2.18	0.60
18:7f:185:TYR:OH	18:7f:403:ALA:O	2.17	0.60
17:8c:247:ASN:HD22	17:8c:247:ASN:C	2.10	0.60
18:8h:101:ASN:ND2	21:8h:501:GTP:O1G	2.35	0.60
17:9g:260:PHE:HB2	17:9g:263:LEU:HD13	1.82	0.60
17:Ae:67:ASP:O	17:Ae:92:PHE:HA	2.01	0.60
18:Ch:337:THR:O	18:Ch:339:ARG:NH1	2.34	0.60
14:1G:501:MET:HA	14:1G:506:MET:HE3	1.84	0.60
17:3e:30:ILE:HD11	17:3e:47:ILE:HD11	1.83	0.60
18:5d:237:SER:HA	18:5d:320:ARG:HD2	1.82	0.60
17:6c:362:LYS:O	17:6c:363:MET:HE2	2.01	0.60
17:6e:263:LEU:O	17:6e:370:ASN:ND2	2.33	0.60
17:7g:207:LEU:HB3	17:7g:225:LEU:HD22	1.82	0.60
18:8b:147:SER:HB2	18:8b:190:SER:HB3	1.83	0.60
18:8b:325:PRO:HA	18:8b:328:VAL:HG12	1.82	0.60
17:9a:42:LEU:HD13	17:9a:356:ILE:HD11	1.81	0.60
17:9c:247:ASN:C	17:9c:247:ASN:HD22	2.10	0.60
17:9e:10:GLY:HA2	17:9e:143:THR:HG23	1.82	0.60
17:Ag:20:PHE:HA	17:Ag:230:SER:HB2	1.83	0.60
17:Bc:198:GLU:HG3	17:Bc:266:PHE:HE2	1.64	0.60
17:Bg:220:PRO:HD2	18:Bh:326:LYS:CD	2.31	0.60
17:Dc:113:ILE:HG13	17:Dc:117:LEU:HD23	1.84	0.60
1:0B:436:LEU:HD12	1:0B:446:MET:HB2	1.84	0.60
1:0D:599:ASP:OD2	1:0D:603:ARG:NH2	2.34	0.60
12:0X:101:MET:HE1	12:0X:239:LEU:HD12	1.83	0.60
12:1A:11:ARG:NH2	12:1A:64:GLN:OE1	2.34	0.60
13:1C:1530:LEU:HD12	13:1C:1534:ALA:HA	1.82	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1C:1582:SER:OG	13:1C:1583:PRO:HD3	2.01	0.60
14:1F:424:PHE:CG	14:1F:490:LEU:HD11	2.36	0.60
14:1G:498:SER:C	14:1G:501:MET:HE3	2.26	0.60
17:1a:299:MET:HA	17:1a:299:MET:HE3	1.84	0.60
17:3c:20:PHE:HA	17:3c:230:SER:HB2	1.84	0.60
18:3f:160:ASP:OD1	18:3f:161:TYR:N	2.35	0.60
17:6a:52:ASN:OD1	17:6a:62:ARG:NH2	2.34	0.60
18:6b:180:ALA:HB3	18:6b:183:GLU:HB2	1.84	0.60
17:8c:321:MET:HE2	17:8c:353:VAL:HG13	1.84	0.60
17:9e:140:GLY:HA2	17:9e:184:ASN:HB2	1.84	0.60
17:9e:247:ASN:HD22	17:9e:247:ASN:C	2.10	0.60
18:Bb:4:VAL:HG22	18:Bb:133:GLN:HB2	1.82	0.60
17:Bc:77:ARG:NH1	17:Bc:82:GLY:O	2.34	0.60
18:Db:325:PRO:HA	18:Db:328:VAL:HG12	1.83	0.60
1:0A:161:MET:HE1	17:Ba:421:GLU:HA	1.82	0.60
13:1C:1226:GLU:HA	13:1C:1229:ARG:HG2	1.83	0.60
14:1G:490:LEU:O	14:1G:494:LYS:HG2	2.01	0.60
18:1h:265:ILE:HG21	18:1h:313:MET:HE1	1.83	0.60
17:2e:198:GLU:HG3	17:2e:266:PHE:CE2	2.36	0.60
17:3c:317:PHE:HB3	17:3c:321:MET:HE1	1.82	0.60
17:4c:20:PHE:HA	17:4c:230:SER:HB2	1.83	0.60
17:4e:267:MET:HE3	17:4e:301:CYS:HB3	1.84	0.60
17:6a:112:LEU:HD23	17:6a:147:MET:HE1	1.83	0.60
18:7f:11:GLN:N	21:7f:501:GTP:O1A	2.31	0.60
17:8c:139:LEU:HD12	17:8c:170:VAL:HG22	1.83	0.60
17:9a:247:ASN:C	17:9a:247:ASN:HD22	2.09	0.60
17:9e:68:LEU:HD21	17:9e:147:MET:HE3	1.82	0.60
18:Ab:267:PHE:HB2	18:Ab:384:ILE:HD12	1.82	0.60
17:Ag:330:MET:HE2	17:Ag:349:VAL:HG22	1.82	0.60
17:Ce:282:ARG:NH1	17:Ce:292:GLN:OE1	2.33	0.60
18:Cf:76:ASP:OD2	17:Cg:46:ARG:NH2	2.34	0.60
18:Db:11:GLN:N	21:Db:501:GTP:O1A	2.33	0.60
1:0C:342:VAL:HG11	1:0C:383:LEU:HD21	1.82	0.60
1:0C:355:MET:HE1	1:0C:602:PHE:HE2	1.67	0.60
6:0O:145:ILE:HG22	17:Cg:361:LEU:HD11	1.83	0.60
18:1d:316:CYS:SG	18:1d:318:MET:HE3	2.42	0.60
18:4d:237:SER:HA	18:4d:320:ARG:HD2	1.82	0.60
18:6d:222:PRO:HD2	17:6e:324:LYS:HG2	1.82	0.60
18:6d:255:PHE:O	18:6d:259:LEU:HB2	2.01	0.60
18:8b:11:GLN:N	21:8b:501:GTP:O1A	2.29	0.60
17:Aa:172:SER:OG	17:Aa:175:VAL:O	2.20	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Aa:207:LEU:HB3	17:Aa:225:LEU:HD22	1.83	0.60
17:Aa:252:LYS:NZ	21:Ah:501:GTP:O1B	2.31	0.60
18:Ad:203:MET:HA	18:Ad:203:MET:HE3	1.84	0.60
18:Ah:30:ILE:HA	18:Ah:36:MET:HB3	1.84	0.60
18:Bf:21:TRP:CZ2	18:Bf:65:CYS:HB2	2.37	0.60
17:Dc:198:GLU:HG3	17:Dc:266:PHE:CE2	2.37	0.60
1:0A:208:MET:HE2	1:0D:208:MET:HE3	1.84	0.60
1:0B:349:THR:HG22	1:0B:365:GLU:HB3	1.83	0.60
18:1b:180:ALA:HB3	18:1b:183:GLU:HB2	1.84	0.60
17:2a:20:PHE:HA	17:2a:230:SER:HB2	1.82	0.60
17:2a:163:MET:HE3	17:2a:251:ARG:NH1	2.17	0.60
18:3d:267:PHE:HB2	18:3d:384:ILE:HD12	1.83	0.60
17:5c:67:ASP:O	17:5c:92:PHE:HA	2.02	0.60
18:5d:79:ARG:NH2	18:5d:92:LEU:O	2.35	0.60
18:6h:217:LEU:HD21	18:6h:368:LEU:HD23	1.82	0.60
21:8f:501:GTP:O1B	17:8g:252:LYS:NZ	2.32	0.60
17:Bg:94:GLN:HE22	18:Bh:1:MET:HG3	1.67	0.60
18:Ch:259:LEU:HD13	18:Ch:268:MET:HE1	1.83	0.60
1:0A:546:ARG:NH1	1:0A:588:PRO:O	2.35	0.60
3:0I:297:THR:HB	17:Ba:431:GLU:HG2	1.82	0.60
5:0N:286:VAL:O	5:0N:290:GLU:HG3	2.02	0.60
5:0N:645:TYR:OH	17:1e:43:GLN:NE2	2.31	0.60
16:1M:99:UNK:C	17:Bg:406:MET:HE2	2.31	0.60
18:2h:326:LYS:NZ	18:2h:327:ASP:OD1	2.34	0.60
17:5c:207:LEU:HD13	17:5c:225:LEU:HB3	1.84	0.60
17:5e:207:LEU:HB3	17:5e:225:LEU:HD22	1.83	0.60
18:5f:21:TRP:CZ2	18:5f:65:CYS:HB2	2.37	0.60
18:5h:21:TRP:CZ2	18:5h:65:CYS:HB2	2.37	0.60
17:6g:247:ASN:C	17:6g:247:ASN:HD22	2.10	0.60
18:7b:180:ALA:HB3	18:7b:183:GLU:HB2	1.83	0.60
17:7c:152:ILE:HG23	17:7c:164:MET:SD	2.42	0.60
17:7c:289:LEU:HD22	17:7c:363:MET:HE2	1.83	0.60
18:7h:2:ARG:HB3	18:7h:242:LEU:HD12	1.84	0.60
17:8e:20:PHE:HA	17:8e:230:SER:HB2	1.82	0.60
18:8f:88:HIS:CE1	18:8f:90:GLU:HB3	2.36	0.60
18:9f:267:PHE:HB2	18:9f:384:ILE:HD12	1.82	0.60
17:Aa:52:ASN:OD1	17:Aa:62:ARG:NH2	2.34	0.60
17:Bc:91:VAL:HG12	17:Bc:112:LEU:HG	1.84	0.60
17:Cg:20:PHE:HA	17:Cg:230:SER:HB2	1.84	0.60
3:0J:447:SER:HB3	3:0J:487:LEU:HD21	1.82	0.60
5:0M:42:THR:HA	5:0M:51:ARG:HA	1.83	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:0P:11:ARG:NH1	7:0Q:137:ILE:O	2.34	0.60
7:0Q:176:LEU:HD13	7:0Q:226:VAL:HG13	1.84	0.60
12:0Z:181:VAL:HG13	12:0Z:186:GLU:HG2	1.83	0.60
12:1A:266:ARG:HH11	18:9d:410:GLY:HA3	1.66	0.60
18:2d:237:SER:HA	18:2d:320:ARG:HD2	1.84	0.60
17:6c:375:GLN:HG3	17:6c:419:VAL:HG13	1.84	0.60
17:6e:358:PRO:HG2	17:6e:361:LEU:HB2	1.84	0.60
17:7g:215:LEU:HB3	17:7g:217:LEU:HD13	1.84	0.60
17:8a:172:SER:OG	17:8a:175:VAL:O	2.20	0.60
17:8c:212:PHE:HB2	18:8d:326:LYS:HZ1	1.67	0.60
17:Bc:145:SER:HB3	17:Bc:188:SER:OG	2.01	0.60
1:0B:141:ILE:HD12	1:0B:144:ARG:HD2	1.83	0.59
1:0C:346:ASP:HB2	2:0E:152:ARG:HH12	1.67	0.59
4:0K:218:ARG:NH2	13:1B:1214:LEU:O	2.35	0.59
4:0L:183:THR:HG21	4:0L:200:TYR:HB2	1.84	0.59
7:0Q:428:LEU:HD11	7:0Q:449:LEU:HD11	1.84	0.59
7:0S:444:LEU:HD21	7:0S:478:ALA:HB2	1.84	0.59
14:1E:460:GLU:O	14:1E:464:LYS:HG2	2.02	0.59
18:2f:147:SER:HB2	18:2f:190:SER:HB3	1.83	0.59
18:3b:180:ALA:HB3	18:3b:183:GLU:HB2	1.82	0.59
17:3c:220:PRO:O	18:3d:326:LYS:HE2	2.01	0.59
18:3f:399:TYR:O	18:3f:402:ARG:NH1	2.33	0.59
17:4g:100:ASN:HB3	17:4g:103:LYS:HB2	1.83	0.59
18:4h:301:MET:HE1	18:4h:377:MET:HE1	1.84	0.59
17:6g:232:VAL:O	17:6g:236:ILE:HG12	2.01	0.59
17:8c:375:GLN:HG3	17:8c:419:VAL:HG13	1.84	0.59
17:9e:229:ILE:O	17:9e:233:MET:HG3	2.02	0.59
17:Ag:268:VAL:HG12	17:Ag:368:ILE:HG12	1.84	0.59
18:Bb:271:SER:HB3	18:Bb:301:MET:HG3	1.84	0.59
18:Bf:242:LEU:HD21	18:Bf:252:ILE:HG12	1.84	0.59
18:Cd:147:SER:HB2	18:Cd:190:SER:HB3	1.82	0.59
18:Cf:237:SER:HA	18:Cf:320:ARG:HD2	1.83	0.59
18:Cf:336:LYS:NZ	18:Cf:348:PRO:O	2.35	0.59
18:Ch:123:ARG:NH1	18:Dh:297:GLU:OE2	2.35	0.59
17:Da:377:MET:HG3	17:Da:380:ARG:HH22	1.67	0.59
1:0A:410:LYS:HG3	17:Dg:410:GLU:HB2	1.83	0.59
5:0M:42:THR:HG23	18:Cd:84:ARG:HD3	1.83	0.59
14:1E:1020:MET:SD	14:1E:1021:PRO:HD3	2.42	0.59
14:1G:807:GLY:HA2	14:1G:813:ALA:HB3	1.84	0.59
14:1G:1054:ALA:HB3	14:1G:1057:GLU:HB2	1.84	0.59
17:1a:100:ASN:HB3	17:1a:103:LYS:HB2	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1d:11:GLN:N	21:1d:501:GTP:O1A	2.35	0.59
17:1e:247:ASN:HD22	17:1e:247:ASN:C	2.09	0.59
18:2b:336:LYS:NZ	18:2b:348:PRO:O	2.34	0.59
17:2c:282:ARG:NH1	17:2c:292:GLN:OE1	2.32	0.59
17:3c:163:MET:HE3	17:3c:251:ARG:HA	1.84	0.59
17:4a:315:ALA:HB3	17:4a:330:MET:HE1	1.84	0.59
17:4e:67:ASP:O	17:4e:92:PHE:HA	2.02	0.59
17:5e:52:ASN:OD1	17:5e:62:ARG:NH2	2.33	0.59
17:6c:247:ASN:C	17:6c:247:ASN:HD22	2.10	0.59
18:7b:12:ALA:HB3	18:7b:140:ALA:HB2	1.83	0.59
18:7f:147:SER:HB2	18:7f:190:SER:HB3	1.84	0.59
17:9c:100:ASN:HB3	17:9c:103:LYS:HB2	1.84	0.59
18:Af:136:LEU:HD22	18:Af:169:PHE:HE2	1.67	0.59
17:Bg:318:ARG:HB3	17:Bg:357:PRO:HA	1.84	0.59
18:Cf:123:ARG:NH1	18:Df:297:GLU:OE2	2.35	0.59
18:Cf:267:PHE:HB2	18:Cf:384:ILE:HD12	1.83	0.59
1:0B:169:GLU:OE1	1:0C:170:LYS:NZ	2.29	0.59
5:0N:626:SER:O	5:0N:630:SER:HB3	2.02	0.59
14:1F:490:LEU:O	14:1F:494:LYS:HG2	2.01	0.59
17:1g:52:ASN:OD1	17:1g:62:ARG:NH2	2.35	0.59
17:4c:130:LEU:O	17:4c:162:ARG:NE	2.36	0.59
17:5a:20:PHE:HA	17:5a:230:SER:HB2	1.83	0.59
17:5g:247:ASN:C	17:5g:247:ASN:HD22	2.10	0.59
17:6a:326:VAL:O	17:6a:330:MET:HE3	2.02	0.59
17:6e:67:ASP:O	17:6e:92:PHE:HA	2.02	0.59
17:6g:198:GLU:HG3	17:6g:266:PHE:HE2	1.66	0.59
18:Ab:9:ILE:HD11	18:Ab:153:LEU:HD23	1.82	0.59
17:Ae:198:GLU:HG3	17:Ae:266:PHE:HE2	1.67	0.59
18:Cd:64:ARG:NH1	18:Cd:129:CYS:SG	2.75	0.59
17:Ce:378:PHE:HD1	17:Ce:415:MET:HE3	1.67	0.59
18:Db:334:THR:O	18:Db:338:LYS:HG2	2.02	0.59
17:De:215:LEU:HB3	17:De:217:LEU:HD13	1.83	0.59
5:0N:94:LEU:HD13	5:0N:143:TYR:HB2	1.84	0.59
14:1D:1005:ARG:HA	14:1D:1008:GLU:HG3	1.85	0.59
17:1g:226:ASN:OD1	20:1g:501:GDP:N1	2.30	0.59
18:2d:147:SER:HB2	18:2d:190:SER:HB3	1.85	0.59
17:2g:397:TRP:CZ2	18:2h:256:GLN:HB3	2.38	0.59
18:3d:133:GLN:O	18:3d:165:SER:OG	2.21	0.59
17:4e:152:ILE:HG23	17:4e:164:MET:HE3	1.83	0.59
17:5a:375:GLN:HG3	17:5a:419:VAL:HG13	1.85	0.59
17:5a:382:SER:OG	17:5a:415:MET:SD	2.57	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5g:381:VAL:HB	17:5g:415:MET:HE1	1.83	0.59
18:8d:267:PHE:HB2	18:8d:384:ILE:HD12	1.83	0.59
18:9d:301:MET:HE1	18:9d:377:MET:HE1	1.83	0.59
17:Ae:143:THR:O	17:Ae:147:MET:HG2	2.03	0.59
17:Ag:208:TYR:HD1	18:Ah:326:LYS:HE3	1.66	0.59
18:Ah:147:SER:HB2	18:Ah:190:SER:HB3	1.84	0.59
18:Cb:160:ASP:OD1	18:Cb:161:TYR:N	2.35	0.59
18:Db:160:ASP:OD1	18:Db:161:TYR:N	2.34	0.59
18:Dh:259:LEU:HD21	18:Dh:316:CYS:HB2	1.85	0.59
1:0D:160:ARG:HH22	13:1C:1157:GLY:HA3	1.68	0.59
3:0I:512:GLU:HA	3:0I:529:LEU:H	1.67	0.59
18:1d:160:ASP:OD1	18:1d:161:TYR:N	2.35	0.59
17:1e:229:ILE:O	17:1e:233:MET:HG3	2.02	0.59
17:2e:247:ASN:C	17:2e:247:ASN:HD22	2.10	0.59
17:6c:52:ASN:OD1	17:6c:62:ARG:NH2	2.35	0.59
18:6f:160:ASP:OD1	18:6f:161:TYR:N	2.35	0.59
18:6h:133:GLN:O	18:6h:165:SER:OG	2.20	0.59
17:7a:20:PHE:HA	17:7a:230:SER:HB2	1.84	0.59
18:7d:11:GLN:N	21:7d:501:GTP:O1A	2.35	0.59
17:7e:375:GLN:HG3	17:7e:419:VAL:HG13	1.84	0.59
17:7g:375:GLN:HG3	17:7g:419:VAL:HG13	1.83	0.59
17:8g:36:TYR:OH	17:8g:40:SER:N	2.34	0.59
18:9b:21:TRP:CZ2	18:9b:65:CYS:HB2	2.37	0.59
18:9d:221:ARG:HD2	17:9e:325:GLU:OE1	2.03	0.59
17:9e:139:LEU:HD12	17:9e:170:VAL:HG22	1.85	0.59
18:9h:267:PHE:HB2	18:9h:384:ILE:HD12	1.84	0.59
18:Ad:2:ARG:HB3	18:Ad:242:LEU:HD12	1.85	0.59
18:Bd:15:GLN:HA	18:Bd:18:ASN:HD22	1.67	0.59
17:Bg:98:GLY:O	18:Bh:257:THR:OG1	2.17	0.59
17:Cg:317:PHE:HB3	17:Cg:321:MET:HE1	1.84	0.59
1:0D:410:LYS:HG2	17:Da:410:GLU:HB2	1.85	0.59
8:0T:54:UNK:N	18:Dd:338:LYS:HD3	2.17	0.59
13:1B:1154:GLN:HB2	13:1B:1282:ARG:HH12	1.68	0.59
13:1B:1493:LEU:HG	13:1B:1519:LYS:NZ	2.18	0.59
13:1B:1493:LEU:HG	13:1B:1519:LYS:HZ3	1.68	0.59
14:1E:1025:SER:OG	14:1E:1052:GLN:NE2	2.35	0.59
18:1h:160:ASP:OD1	18:1h:161:TYR:N	2.36	0.59
17:2e:238:CYS:SG	17:2e:241:ARG:NH2	2.76	0.59
17:3e:52:ASN:OD1	17:3e:62:ARG:NH2	2.35	0.59
17:3g:145:SER:HB3	17:3g:188:SER:OG	2.03	0.59
18:4h:160:ASP:OD1	18:4h:161:TYR:N	2.35	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:6c:130:LEU:O	17:6c:162:ARG:NE	2.36	0.59
17:6c:334:GLN:NE2	17:6c:346:PRO:O	2.35	0.59
17:7c:391:ARG:HE	18:7d:346:TRP:HB3	1.68	0.59
18:7d:2:ARG:HB3	18:7d:242:LEU:HD12	1.84	0.59
18:7f:185:TYR:HE2	18:7f:404:PHE:HB2	1.67	0.59
17:8g:247:ASN:C	17:8g:247:ASN:HD22	2.10	0.59
17:9a:10:GLY:O	17:9a:14:ASN:ND2	2.35	0.59
17:Ae:318:ARG:HB3	17:Ae:357:PRO:HA	1.85	0.59
18:Bb:237:SER:HA	18:Bb:320:ARG:HD2	1.84	0.59
18:Bf:4:VAL:HG22	18:Bf:133:GLN:HB2	1.84	0.59
18:Bh:21:TRP:CZ2	18:Bh:65:CYS:HB2	2.37	0.59
17:Ca:198:GLU:HG3	17:Ca:266:PHE:CE2	2.37	0.59
18:Cd:9:ILE:HD13	18:Cd:150:GLY:HA2	1.85	0.59
18:Cf:147:SER:HB2	18:Cf:190:SER:HB3	1.82	0.59
18:Ch:132:LEU:HB3	18:Ch:164:LYS:HE2	1.84	0.59
17:Dc:375:GLN:HG3	17:Dc:419:VAL:HG13	1.84	0.59
3:0I:196:ARG:NH2	3:0I:205:GLU:O	2.36	0.59
5:0M:723:ASP:OD1	17:Ce:218:THR:OG1	2.14	0.59
14:1G:400:ARG:HD3	14:1G:401:PRO:HD2	1.84	0.59
18:3d:9:ILE:HD13	18:3d:150:GLY:HA2	1.84	0.59
18:4b:101:ASN:ND2	21:4b:501:GTP:O1G	2.36	0.59
18:4b:237:SER:HA	18:4b:320:ARG:HD2	1.84	0.59
18:4b:258:ASN:HD22	18:4b:352:LYS:HD3	1.68	0.59
17:5c:213:ARG:HH21	17:5c:297:LYS:HD2	1.68	0.59
18:5h:9:ILE:HD11	18:5h:153:LEU:HD23	1.83	0.59
17:6c:238:CYS:SG	17:6c:241:ARG:NH2	2.75	0.59
18:8f:318:MET:HB2	18:8f:376:CYS:HB3	1.85	0.59
17:8g:375:GLN:HG3	17:8g:419:VAL:HG13	1.85	0.59
17:9a:172:SER:OG	17:9a:175:VAL:O	2.20	0.59
17:9a:377:MET:HG3	17:9a:380:ARG:HH12	1.68	0.59
18:9h:80:THR:O	18:9h:84:ARG:NH2	2.33	0.59
18:Ab:160:ASP:OD1	18:Ab:161:TYR:N	2.35	0.59
17:Ba:183:TYR:CZ	17:Ba:388:MET:HE3	2.37	0.59
17:Da:215:LEU:HB3	17:Da:217:LEU:HD13	1.85	0.59
17:Da:404:ASP:HB2	17:Da:406:MET:HG3	1.84	0.59
18:Df:252:ILE:O	18:Df:256:GLN:NE2	2.35	0.59
18:Dh:2:ARG:HB3	18:Dh:242:LEU:HD12	1.84	0.59
2:0H:62:LYS:N	2:0H:67:ASP:OD2	2.36	0.59
3:0I:453:VAL:HG23	3:0I:516:ARG:HH11	1.66	0.59
5:0N:138:HIS:H	5:0N:140:LYS:HG2	1.67	0.59
6:0P:57:PRO:HA	17:1g:279:GLN:HE22	1.67	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0S:566:ALA:HA	7:0S:590:PRO:HB3	1.85	0.59
12:0X:276:ASN:HD21	18:9f:402:ARG:NH2	2.00	0.59
14:1E:504:ASN:OD1	14:1E:505:GLU:N	2.36	0.59
14:1F:820:THR:OG1	14:1F:821:PRO:HD3	2.02	0.59
14:1G:999:TYR:HB3	14:1G:1008:GLU:HG2	1.84	0.59
17:2a:330:MET:HE1	17:2a:351:SER:HB2	1.83	0.59
18:3b:237:SER:HA	18:3b:320:ARG:HD2	1.85	0.59
17:5c:7:ILE:HD13	17:5c:151:LEU:HD21	1.84	0.59
17:6c:163:MET:HE2	17:6c:251:ARG:HA	1.83	0.59
17:6c:198:GLU:HG3	17:6c:266:PHE:HE2	1.66	0.59
17:6e:20:PHE:HA	17:6e:230:SER:HB2	1.84	0.59
17:6e:198:GLU:HG3	17:6e:266:PHE:CE2	2.37	0.59
18:6h:237:SER:HA	18:6h:320:ARG:HD2	1.83	0.59
18:7b:237:SER:HA	18:7b:320:ARG:HD2	1.85	0.59
18:7h:312:TYR:HA	18:7h:381:SER:HB2	1.85	0.59
17:8g:163:MET:HA	17:8g:163:MET:HE3	1.84	0.59
18:8h:88:HIS:HD2	18:8h:91:GLN:H	1.49	0.59
17:Ba:198:GLU:HG3	17:Ba:266:PHE:HE2	1.68	0.59
18:Bb:169:PHE:HZ	18:Bb:238:LEU:HD13	1.67	0.59
17:Bg:10:GLY:O	17:Bg:14:ASN:ND2	2.36	0.59
18:Cb:76:ASP:OD2	17:Cc:46:ARG:NH2	2.35	0.59
1:0B:435:ARG:NH2	17:Dc:417:ASP:OD2	2.36	0.59
12:0Z:234:LEU:HD23	12:0Z:344:SER:HA	1.83	0.59
13:1B:1582:SER:OG	13:1B:1583:PRO:HD3	2.03	0.59
13:1C:1117:TYR:HA	13:1C:1123:LYS:NZ	2.17	0.59
14:1D:1020:MET:SD	14:1D:1021:PRO:HD3	2.43	0.59
17:1e:283:ALA:HB2	18:Db:56:THR:HG22	1.85	0.59
18:1f:306:ASP:OD2	18:1f:308:ARG:NH2	2.34	0.59
17:1g:215:LEU:HB3	17:1g:217:LEU:HD13	1.84	0.59
17:2e:318:ARG:HB3	17:2e:357:PRO:HA	1.85	0.59
18:4b:64:ARG:NH1	18:4b:129:CYS:SG	2.76	0.59
18:4d:160:ASP:OD1	18:4d:161:TYR:N	2.36	0.59
18:5b:160:ASP:OD1	18:5b:161:TYR:N	2.33	0.59
17:5e:100:ASN:HB3	17:5e:103:LYS:HB2	1.84	0.59
17:5e:198:GLU:HG3	17:5e:266:PHE:CE2	2.36	0.59
17:5e:238:CYS:SG	17:5e:241:ARG:NH2	2.72	0.59
18:6b:101:ASN:HA	18:6b:144:GLY:H	1.66	0.59
18:6d:9:ILE:HD11	18:6d:153:LEU:HD23	1.84	0.59
17:7e:52:ASN:OD1	17:7e:62:ARG:NH2	2.36	0.59
17:Ba:100:ASN:HB3	17:Ba:103:LYS:HB2	1.84	0.59
17:Be:30:ILE:HD11	17:Be:47:ILE:HD11	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Be:375:GLN:HG3	17:Be:419:VAL:HG13	1.85	0.59
18:Bh:336:LYS:NZ	18:Bh:348:PRO:O	2.36	0.59
18:Ch:267:PHE:HB2	18:Ch:384:ILE:HD12	1.83	0.59
17:Da:245:GLN:OE1	18:Dh:223:THR:OG1	2.20	0.59
17:Dg:247:ASN:HD22	17:Dg:247:ASN:C	2.10	0.59
17:Dg:274:THR:HG22	17:Dg:282:ARG:HD3	1.84	0.59
1:0B:546:ARG:NH1	1:0B:588:PRO:O	2.36	0.59
1:0D:76:ASP:OD2	1:0D:80:ARG:NH2	2.36	0.59
3:0I:555:LYS:HG3	3:0I:558:ARG:HH21	1.68	0.59
5:0M:135:PRO:HA	5:0M:141:VAL:HG13	1.85	0.59
12:0Y:64:GLN:HB3	12:0Y:116:ARG:HH22	1.66	0.59
14:1E:497:LYS:NZ	14:1E:505:GLU:O	2.35	0.59
17:1a:207:LEU:HB3	17:1a:225:LEU:HD22	1.85	0.59
17:1e:52:ASN:OD1	17:1e:62:ARG:NH2	2.35	0.59
18:1h:306:ASP:OD2	18:1h:308:ARG:NH2	2.34	0.59
18:2b:147:SER:HB2	18:2b:190:SER:HB3	1.85	0.59
17:2c:54:ALA:HB3	17:2c:58:ARG:HB3	1.84	0.59
18:3d:259:LEU:HD13	18:3d:268:MET:HE2	1.84	0.59
18:3f:180:ALA:HB3	18:3f:183:GLU:HB2	1.83	0.59
17:4a:139:LEU:HG	17:4a:168:SER:HB3	1.84	0.59
17:4e:282:ARG:NH1	17:4e:292:GLN:OE1	2.34	0.59
17:5a:52:ASN:OD1	17:5a:62:ARG:NH2	2.36	0.59
17:5c:99:ASN:HA	17:5c:142:GLY:H	1.68	0.59
18:6b:399:TYR:O	18:6b:402:ARG:NH1	2.33	0.59
17:6g:156:ARG:HB2	17:6g:164:MET:HE1	1.84	0.59
18:6h:70:LEU:HD12	18:6h:99:ALA:HB2	1.84	0.59
18:8b:399:TYR:O	18:8b:402:ARG:NH1	2.33	0.59
18:9f:64:ARG:NH1	18:9f:129:CYS:SG	2.76	0.59
18:9h:21:TRP:CZ2	18:9h:65:CYS:HB2	2.38	0.59
17:Ac:286:VAL:HG22	17:Ac:321:MET:HE3	1.85	0.59
18:Bb:21:TRP:CZ2	18:Bb:65:CYS:HB2	2.38	0.59
17:Be:247:ASN:C	17:Be:247:ASN:HD22	2.09	0.59
18:Cb:325:PRO:HA	18:Cb:328:VAL:HG12	1.85	0.59
17:Cc:173:PRO:HB3	17:Cc:380:ARG:CZ	2.32	0.59
17:Cc:238:CYS:SG	17:Cc:241:ARG:NH2	2.76	0.59
17:Dg:184:ASN:OD1	17:Dg:398:TYR:OH	2.16	0.59
1:0A:434:VAL:HG21	1:0A:469:THR:HG21	1.83	0.58
1:0A:540:ASN:ND2	1:0A:581:VAL:O	2.34	0.58
1:0B:149:TRP:HB3	1:0C:149:TRP:HB3	1.85	0.58
5:0M:49:LEU:HD13	5:0M:51:ARG:HH21	1.68	0.58
8:0T:129:UNK:C	17:Cg:94:GLN:HE22	2.15	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2d:160:ASP:OD1	18:2d:161:TYR:N	2.36	0.58
17:3a:267:MET:HE1	17:3a:373:ALA:HB3	1.85	0.58
18:4b:2:ARG:HB3	18:4b:242:LEU:HD12	1.83	0.58
18:4d:301:MET:HE1	18:4d:377:MET:HE1	1.85	0.58
17:5a:213:ARG:HH21	17:5a:297:LYS:HD2	1.66	0.58
17:5e:215:LEU:HB3	17:5e:217:LEU:HD13	1.85	0.58
17:6e:311:LEU:HD23	17:6e:342:VAL:HG21	1.83	0.58
18:6h:101:ASN:HA	18:6h:144:GLY:H	1.67	0.58
18:7h:12:ALA:HB3	18:7h:140:ALA:HB2	1.85	0.58
17:8a:252:LYS:NZ	21:8h:501:GTP:O1B	2.31	0.58
17:8g:330:MET:HE2	17:8g:349:VAL:HG22	1.85	0.58
18:8h:160:ASP:OD1	18:8h:161:TYR:N	2.36	0.58
17:Ae:220:PRO:HG2	18:Af:326:LYS:CE	2.33	0.58
17:Da:102:ALA:HB2	17:Da:403:MET:HE3	1.84	0.58
3:0I:135:MET:HE2	17:Bg:421:GLU:HG2	1.85	0.58
12:1A:106:THR:N	12:1A:111:ARG:HG2	2.15	0.58
13:1C:1413:PRO:HD2	13:1C:1749:ARG:HH12	1.68	0.58
14:1F:999:TYR:HB3	14:1F:1008:GLU:HG2	1.85	0.58
17:1e:198:GLU:HG3	17:1e:266:PHE:CE2	2.34	0.58
17:2c:299:MET:HA	17:2c:299:MET:HE3	1.83	0.58
18:2h:133:GLN:O	18:2h:165:SER:OG	2.20	0.58
17:4e:247:ASN:C	17:4e:247:ASN:HD22	2.10	0.58
17:5c:100:ASN:HB3	17:5c:103:LYS:HB2	1.85	0.58
17:6a:130:LEU:O	17:6a:162:ARG:NE	2.36	0.58
18:6f:398:MET:HE3	17:6g:346:PRO:HD3	1.84	0.58
18:6h:336:LYS:NZ	18:6h:348:PRO:O	2.36	0.58
17:7a:267:MET:HE1	17:7a:305:PRO:HG3	1.84	0.58
18:7b:160:ASP:OD1	18:7b:161:TYR:N	2.35	0.58
17:7c:330:MET:HE2	17:7c:349:VAL:HG13	1.85	0.58
17:8a:100:ASN:HB3	17:8a:103:LYS:HB2	1.85	0.58
18:8d:160:ASP:OD1	18:8d:161:TYR:N	2.35	0.58
18:8d:251:ASP:HB2	18:8d:254:GLU:HG3	1.85	0.58
18:9b:160:ASP:OD1	18:9b:161:TYR:N	2.36	0.58
18:9h:160:ASP:OD1	18:9h:161:TYR:N	2.34	0.58
18:Ab:101:ASN:HA	18:Ab:144:GLY:H	1.69	0.58
17:Ac:159:TYR:HB3	17:Ac:162:ARG:HG3	1.85	0.58
18:Bh:215:ARG:HH12	18:Bh:299:ALA:C	2.12	0.58
17:Cg:247:ASN:C	17:Cg:247:ASN:HD22	2.09	0.58
3:0J:309:ARG:NH1	18:Bd:420:GLU:O	2.36	0.58
7:0S:72:LEU:HD21	7:0S:83:VAL:HG13	1.84	0.58
12:0X:234:LEU:HD23	12:0X:344:SER:HA	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:0Z:134:ARG:HB2	12:0Z:221:GLU:HB2	1.85	0.58
17:2c:163:MET:HE3	17:2c:251:ARG:NH1	2.18	0.58
17:3a:20:PHE:HA	17:3a:230:SER:HB2	1.84	0.58
18:3f:76:ASP:OD2	17:3g:46:ARG:NH2	2.36	0.58
17:5c:98:GLY:O	18:5d:257:THR:OG1	2.13	0.58
18:5f:160:ASP:OD1	18:5f:161:TYR:N	2.34	0.58
17:7a:375:GLN:HG3	17:7a:419:VAL:HG13	1.85	0.58
18:7h:160:ASP:OD1	18:7h:161:TYR:N	2.35	0.58
17:8c:397:TRP:CZ2	18:8d:256:GLN:HB3	2.39	0.58
17:8g:215:LEU:HB3	17:8g:217:LEU:HD13	1.85	0.58
17:9a:209:ASP:OD1	17:9a:213:ARG:NH2	2.24	0.58
18:Af:160:ASP:OD1	18:Af:161:TYR:N	2.36	0.58
17:Ba:20:PHE:HA	17:Ba:230:SER:HB2	1.84	0.58
18:Db:180:ALA:HB3	18:Db:183:GLU:HB2	1.85	0.58
18:Df:160:ASP:OD1	18:Df:161:TYR:N	2.35	0.58
1:0A:178:ARG:HH22	4:0L:134:ARG:HH12	1.51	0.58
1:0B:146:SER:HA	1:0B:149:TRP:CD1	2.39	0.58
5:0N:392:MET:HE3	5:0N:403:VAL:HG22	1.85	0.58
6:0P:50:VAL:HG21	17:1g:276:ARG:HG3	1.84	0.58
12:0Z:84:ASN:ND2	12:0Z:303:ASN:O	2.36	0.58
17:1a:247:ASN:C	17:1a:247:ASN:HD22	2.09	0.58
17:1g:247:ASN:HD22	17:1g:247:ASN:C	2.09	0.58
18:3d:30:ILE:HA	18:3d:36:MET:HB3	1.86	0.58
18:3h:160:ASP:OD1	18:3h:161:TYR:N	2.37	0.58
18:4d:101:ASN:HA	18:4d:144:GLY:H	1.67	0.58
17:4g:215:LEU:HB3	17:4g:217:LEU:HD13	1.85	0.58
18:4h:35:GLN:HA	18:4h:61:HIS:HD2	1.68	0.58
18:5f:237:SER:HA	18:5f:320:ARG:HD2	1.85	0.58
18:6h:195:LEU:HD12	18:6h:266:HIS:HE1	1.68	0.58
18:7b:9:ILE:HD13	18:7b:150:GLY:HA2	1.85	0.58
17:8g:167:PHE:CE1	17:8g:200:MET:HG3	2.39	0.58
18:9d:160:ASP:OD1	18:9d:161:TYR:N	2.36	0.58
17:Ba:73:MET:SD	17:Ba:92:PHE:HB3	2.43	0.58
17:Bc:184:ASN:OD1	17:Bc:398:TYR:OH	2.18	0.58
18:Bf:259:LEU:HB3	18:Bf:268:MET:HE1	1.85	0.58
17:Bg:172:SER:OG	17:Bg:175:VAL:O	2.21	0.58
17:Bg:262:ARG:NH2	17:Bg:414:ASN:OD1	2.31	0.58
17:Ce:130:LEU:O	17:Ce:162:ARG:NE	2.36	0.58
17:Da:49:VAL:O	17:Da:62:ARG:NH1	2.36	0.58
18:Dd:217:LEU:HD21	18:Dd:368:LEU:HD23	1.86	0.58
1:0D:578:GLU:OE1	1:0D:603:ARG:NH2	2.35	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0M:661:THR:HG21	17:1a:320:ARG:HH21	1.68	0.58
13:1C:1338:ARG:NH1	13:1C:1339:LEU:O	2.37	0.58
14:1E:978:LEU:HD11	14:1E:995:ILE:HG21	1.85	0.58
17:1c:286:VAL:HG22	17:1c:321:MET:HE3	1.85	0.58
18:2d:169:PHE:HZ	18:2d:238:LEU:HD13	1.66	0.58
18:3d:160:ASP:OD1	18:3d:161:TYR:N	2.37	0.58
18:4b:88:HIS:HB3	18:4b:91:GLN:HB2	1.86	0.58
18:4b:160:ASP:OD1	18:4b:161:TYR:N	2.36	0.58
18:4h:70:LEU:HD12	18:4h:99:ALA:HB2	1.85	0.58
17:5e:94:GLN:NE2	18:5f:131:GLY:HA3	2.17	0.58
18:5h:79:ARG:NH1	18:5h:94:SER:OG	2.36	0.58
18:6b:311:LYS:H	18:6b:382:THR:HG22	1.68	0.58
18:8d:88:HIS:CD2	18:9d:283:HIS:HB3	2.39	0.58
18:9d:16:VAL:HA	18:9d:228:ASN:HB3	1.85	0.58
17:Ag:159:TYR:HB3	17:Ag:162:ARG:HG3	1.85	0.58
17:Cc:377:MET:HG3	17:Cc:380:ARG:HH22	1.69	0.58
17:Cg:375:GLN:HG3	17:Cg:419:VAL:HG13	1.86	0.58
1:0A:146:SER:HA	1:0A:149:TRP:CD1	2.39	0.58
7:0Q:495:ARG:NH1	7:0Q:497:ARG:O	2.35	0.58
12:0X:42:GLY:H	18:9f:263:PRO:HG2	1.67	0.58
17:4g:318:ARG:HB3	17:4g:357:PRO:HA	1.85	0.58
17:5c:203:ASP:OD2	17:5c:302:ALA:N	2.26	0.58
17:6e:397:TRP:CZ2	18:6f:256:GLN:HB3	2.39	0.58
17:6g:198:GLU:HG3	17:6g:266:PHE:CE2	2.38	0.58
17:8a:215:LEU:HB3	17:8a:217:LEU:HD13	1.84	0.58
17:8c:20:PHE:HA	17:8c:230:SER:HB2	1.84	0.58
17:8g:98:GLY:HA2	18:8h:254:GLU:HG3	1.85	0.58
18:9d:98:ASP:OD1	18:9d:99:ALA:N	2.36	0.58
18:9h:301:MET:HE1	18:9h:377:MET:HE1	1.86	0.58
17:Ca:183:TYR:CZ	17:Ca:388:MET:HE3	2.38	0.58
1:0A:169:GLU:OE1	1:0D:170:LYS:NZ	2.31	0.58
1:0B:89:SER:HA	1:0B:92:CYS:HB2	1.85	0.58
3:0J:434:HIS:HB2	14:1E:1006:ARG:HH12	1.68	0.58
13:1B:1588:LEU:HD21	13:1B:1594:LEU:HB2	1.84	0.58
14:1E:1039:CYS:HA	14:1E:1042:GLU:HB2	1.85	0.58
14:1G:544:VAL:HG11	14:1G:548:GLN:HG3	1.85	0.58
17:1a:215:LEU:HB3	17:1a:217:LEU:HD13	1.86	0.58
17:2e:317:PHE:CD2	17:2e:321:MET:HE1	2.37	0.58
18:2f:160:ASP:OD1	18:2f:161:TYR:N	2.37	0.58
17:3c:112:LEU:HB3	17:3c:147:MET:HE1	1.84	0.58
18:3d:237:SER:HA	18:3d:320:ARG:HD2	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4a:87:PRO:HG2	17:5a:278:SER:HB3	1.84	0.58
17:4g:159:TYR:HB3	17:4g:162:ARG:HG3	1.84	0.58
18:4h:101:ASN:HD21	18:4h:180:ALA:HB1	1.69	0.58
18:5f:250:VAL:HG21	18:5f:318:MET:HE1	1.85	0.58
18:5h:70:LEU:HD12	18:5h:99:ALA:HB2	1.86	0.58
17:6a:417:ASP:O	17:6a:421:GLU:HG2	2.03	0.58
18:7d:88:HIS:HB3	18:7d:91:GLN:HB2	1.85	0.58
18:8b:88:HIS:HB3	18:8b:91:GLN:HB2	1.85	0.58
18:9d:237:SER:HA	18:9d:320:ARG:HD2	1.85	0.58
18:9d:259:LEU:HD22	18:9d:268:MET:HE1	1.85	0.58
18:Bf:9:ILE:HD11	18:Bf:153:LEU:HD23	1.85	0.58
17:Cg:321:MET:HG2	17:Cg:363:MET:HE3	1.86	0.58
3:0I:141:THR:HG22	16:1M:75:UNK:O	2.03	0.58
5:0M:49:LEU:HD11	18:Cd:79:ARG:HD3	1.85	0.58
7:0Q:168:THR:HB	7:0Q:177:TRP:HE1	1.68	0.58
12:1A:64:GLN:HB3	12:1A:116:ARG:HH22	1.67	0.58
13:1B:1697:ARG:HA	18:Bf:163:LYS:HA	1.84	0.58
14:1D:978:LEU:HD11	14:1D:995:ILE:HG21	1.84	0.58
14:1G:1029:LEU:HD22	14:1G:1064:ALA:HB1	1.86	0.58
17:2c:20:PHE:HA	17:2c:230:SER:HB2	1.86	0.58
17:2c:140:GLY:HA2	17:2c:184:ASN:HB2	1.85	0.58
18:2f:237:SER:HA	18:2f:320:ARG:HD2	1.84	0.58
17:3a:140:GLY:HA2	17:3a:184:ASN:HB2	1.86	0.58
18:4f:96:LYS:HA	17:4g:1:MET:HE3	1.85	0.58
17:5e:20:PHE:HA	17:5e:230:SER:HB2	1.84	0.58
18:5f:217:LEU:HD21	18:5f:368:LEU:HD23	1.86	0.58
17:5g:100:ASN:HB3	17:5g:103:LYS:HB2	1.85	0.58
18:6b:160:ASP:OD1	18:6b:161:TYR:N	2.37	0.58
18:7d:160:ASP:OD1	18:7d:161:TYR:N	2.35	0.58
17:8a:229:ILE:O	17:8a:233:MET:HG3	2.04	0.58
18:8f:399:TYR:O	18:8f:402:ARG:NH1	2.34	0.58
18:Ad:160:ASP:OD1	18:Ad:161:TYR:N	2.35	0.58
18:Ad:267:PHE:HB2	18:Ad:384:ILE:HD12	1.85	0.58
17:Ba:131:GLN:O	17:Ba:163:MET:HB2	2.04	0.58
17:Bc:73:MET:HA	17:Bc:76:VAL:HB	1.84	0.58
18:Cd:101:ASN:HA	18:Cd:144:GLY:H	1.69	0.58
17:Da:247:ASN:C	17:Da:247:ASN:HD22	2.10	0.58
17:Dg:66:MET:HE3	17:Dg:116:VAL:HG21	1.86	0.58
6:0P:142:TYR:CE1	17:Cc:276:ARG:HD2	2.39	0.58
13:1B:1525:ALA:HB3	13:1B:1618:ARG:HG3	1.86	0.58
13:1C:1215:GLU:H	13:1C:1217:TRP:CD1	2.22	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2h:336:LYS:NZ	18:2h:348:PRO:O	2.36	0.58
17:4a:86:ARG:HG2	17:5a:281:TYR:HB3	1.85	0.58
17:4c:67:ASP:O	17:4c:92:PHE:HA	2.02	0.58
18:4f:265:ILE:HG21	18:4f:313:MET:HE1	1.86	0.58
18:5d:4:VAL:HG22	18:5d:133:GLN:HB2	1.85	0.58
18:5f:101:ASN:HA	18:5f:144:GLY:H	1.69	0.58
18:7d:21:TRP:CZ2	18:7d:65:CYS:HB2	2.38	0.58
18:7f:160:ASP:OD1	18:7f:161:TYR:N	2.35	0.58
17:7g:130:LEU:O	17:7g:162:ARG:NE	2.36	0.58
17:8c:116:VAL:HG21	17:8c:147:MET:HE3	1.86	0.58
17:9e:207:LEU:HB3	17:9e:225:LEU:HD22	1.85	0.58
18:9f:250:VAL:HB	18:9f:318:MET:HE1	1.86	0.58
18:Ah:255:PHE:O	18:Ah:259:LEU:HB2	2.04	0.58
17:Ba:139:LEU:HG	17:Ba:168:SER:HB3	1.85	0.58
18:Bb:399:TYR:O	18:Bb:402:ARG:NH1	2.30	0.58
17:Ca:30:ILE:HD11	17:Ca:47:ILE:HD11	1.85	0.58
17:Ce:209:ASP:HB3	17:Ce:213:ARG:HH22	1.69	0.58
17:Dg:58:ARG:NH2	17:Dg:83:GLN:O	2.37	0.58
1:0A:165:ARG:HH21	18:Bh:402:ARG:HE	1.51	0.58
2:0H:121:ASP:OD1	2:0H:122:LEU:N	2.36	0.58
3:0J:270:LEU:HD11	3:0J:323:VAL:HG11	1.86	0.58
7:0S:29:TYR:HB3	7:0S:41:LEU:HG	1.86	0.58
12:0Z:280:ARG:NH1	12:0Z:282:ASP:OD2	2.37	0.58
13:1C:1317:GLU:OE2	13:1C:1744:GLN:NE2	2.37	0.58
13:1C:1503:VAL:HG21	13:1C:1751:VAL:HG23	1.86	0.58
14:1E:443:LEU:HD21	14:1E:462:ARG:HE	1.69	0.58
18:1b:325:PRO:HA	18:1b:328:VAL:HG12	1.85	0.58
18:2f:169:PHE:HZ	18:2f:238:LEU:HD13	1.68	0.58
18:2f:223:THR:OG1	17:2g:245:GLN:OE1	2.21	0.58
18:2h:160:ASP:OD1	18:2h:161:TYR:N	2.37	0.58
17:3e:140:GLY:HA2	17:3e:184:ASN:HB2	1.85	0.58
17:5e:49:VAL:O	17:5e:62:ARG:NH1	2.37	0.58
17:5g:20:PHE:HA	17:5g:230:SER:HB2	1.85	0.58
17:Be:52:ASN:OD1	17:Be:62:ARG:NH2	2.36	0.58
18:Bf:324:VAL:HG13	18:Bf:327:ASP:H	1.69	0.58
18:Cb:319:TYR:HB3	18:Cb:323:VAL:HG21	1.85	0.58
18:Cf:160:ASP:OD1	18:Cf:161:TYR:N	2.37	0.58
17:Dc:207:LEU:HB3	17:Dc:225:LEU:HD22	1.86	0.58
1:0A:436:LEU:HD12	1:0A:446:MET:HB2	1.86	0.57
1:0C:578:GLU:OE1	1:0C:603:ARG:NH2	2.37	0.57
3:0I:193:ALA:HB2	3:0I:333:LEU:HD12	1.86	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:0I:536:GLU:HB2	14:1G:980:PHE:CE2	2.39	0.57
5:0M:232:ILE:O	5:0M:236:MET:HG2	2.04	0.57
18:3d:76:ASP:OD2	17:3e:46:ARG:NH2	2.37	0.57
17:3g:100:ASN:HB3	17:3g:103:LYS:HB2	1.84	0.57
17:4e:155:ILE:HB	17:4e:164:MET:HE1	1.86	0.57
17:4g:10:GLY:O	17:4g:14:ASN:ND2	2.37	0.57
18:5b:298:PRO:HB3	18:5b:307:PRO:HD2	1.85	0.57
17:6a:275:SER:HG	17:6a:278:SER:HG	1.52	0.57
17:6e:374:ILE:HG23	17:6e:377:MET:HE2	1.86	0.57
17:6g:52:ASN:OD1	17:6g:62:ARG:NH2	2.36	0.57
18:7b:267:PHE:HB2	18:7b:384:ILE:HD12	1.86	0.57
17:7g:67:ASP:HB3	17:7g:73:MET:HE2	1.85	0.57
18:8b:160:ASP:OD1	18:8b:161:TYR:N	2.36	0.57
18:Ah:160:ASP:OD1	18:Ah:161:TYR:N	2.36	0.57
18:Db:147:SER:HB2	18:Db:190:SER:HB3	1.86	0.57
18:Dh:160:ASP:OD1	18:Dh:161:TYR:N	2.36	0.57
5:0M:162:GLY:HA3	17:Ce:26:ASP:HB2	1.86	0.57
7:0S:21:SER:HB3	7:0S:300:LEU:HD23	1.86	0.57
12:0Z:356:ARG:HA	12:0Z:359:LYS:HE3	1.87	0.57
12:1A:88:PHE:HB3	12:1A:240:VAL:HB	1.86	0.57
14:1F:1029:LEU:HD22	14:1F:1064:ALA:HB1	1.87	0.57
18:1b:147:SER:HB2	18:1b:190:SER:HB3	1.87	0.57
17:3c:100:ASN:HB3	17:3c:103:LYS:HB2	1.86	0.57
18:4b:180:ALA:HB3	18:4b:183:GLU:HB2	1.84	0.57
17:6a:334:GLN:NE2	17:6a:346:PRO:O	2.38	0.57
18:6h:269:LEU:HD22	18:6h:303:VAL:HG21	1.85	0.57
17:7a:139:LEU:HD12	17:7a:170:VAL:HG22	1.86	0.57
18:7f:180:ALA:HB3	18:7f:183:GLU:HB2	1.86	0.57
17:8c:289:LEU:O	17:8c:293:MET:HG3	2.05	0.57
17:8g:273:LEU:H	17:8g:292:GLN:HE22	1.51	0.57
18:Bb:212:ILE:HG12	18:Bb:215:ARG:HH12	1.69	0.57
18:Bd:255:PHE:O	18:Bd:259:LEU:HB2	2.04	0.57
18:Ch:147:SER:HB2	18:Ch:190:SER:HB3	1.86	0.57
18:Dd:160:ASP:OD1	18:Dd:161:TYR:N	2.35	0.57
17:De:293:MET:HG3	17:De:367:PHE:HB2	1.85	0.57
18:Df:169:PHE:HZ	18:Df:238:LEU:HD13	1.69	0.57
14:1F:960:TRP:CE2	14:1F:991:LEU:HD21	2.39	0.57
14:1G:595:ARG:HA	14:1G:768:ALA:HB2	1.86	0.57
18:2d:200:VAL:HG23	18:2d:256:GLN:HG3	1.86	0.57
18:2d:223:THR:OG1	17:2e:245:GLN:OE1	2.21	0.57
17:6a:200:MET:HG3	17:6a:266:PHE:HB2	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:6e:275:SER:HG	17:6e:278:SER:HG	1.52	0.57
18:7d:180:ALA:HB3	18:7d:183:GLU:HB2	1.86	0.57
18:7d:360:PRO:O	18:7d:370:LYS:NZ	2.37	0.57
17:7e:100:ASN:HB3	17:7e:103:LYS:HB2	1.87	0.57
17:8e:267:MET:HE1	17:8e:305:PRO:HG3	1.87	0.57
17:9e:294:TRP:HZ2	17:9e:330:MET:HE3	1.69	0.57
18:Af:237:SER:HA	18:Af:320:ARG:HD2	1.86	0.57
17:Ag:118:ASP:OD1	17:Ag:121:ARG:NH2	2.37	0.57
17:Cc:163:MET:HE3	17:Cc:251:ARG:NH1	2.19	0.57
17:De:7:ILE:HD13	17:De:151:LEU:HD21	1.87	0.57
1:0D:579:ASP:OD1	1:0D:580:ALA:N	2.37	0.57
4:0K:161:VAL:HG11	18:Bf:434:GLU:HB2	1.86	0.57
12:0Y:151:LEU:HD21	12:0Y:190:GLN:HG3	1.85	0.57
14:1D:460:GLU:O	14:1D:464:LYS:HG2	2.03	0.57
17:4a:198:GLU:HG3	17:4a:266:PHE:CE2	2.37	0.57
18:5d:313:MET:HE3	18:5d:382:THR:HB	1.86	0.57
18:6d:259:LEU:HD21	18:6d:316:CYS:HB2	1.86	0.57
18:7b:2:ARG:HB3	18:7b:242:LEU:HD12	1.85	0.57
17:7g:52:ASN:OD1	17:7g:62:ARG:NH2	2.37	0.57
18:7h:21:TRP:CZ2	18:7h:65:CYS:HB2	2.39	0.57
18:9d:76:ASP:OD2	17:9e:46:ARG:NH2	2.37	0.57
17:Aa:100:ASN:HB3	17:Aa:103:LYS:HB2	1.85	0.57
18:Ad:255:PHE:O	18:Ad:259:LEU:HB2	2.05	0.57
18:Ad:268:MET:HG3	18:Ad:378:ILE:HD11	1.86	0.57
17:Ag:274:THR:HG22	17:Ag:282:ARG:HD3	1.87	0.57
18:Ch:217:LEU:HD21	18:Ch:368:LEU:HD23	1.86	0.57
3:0J:150:GLN:HA	3:0J:153:LYS:HG2	1.86	0.57
4:0K:191:PHE:HB2	4:0K:194:VAL:HB	1.86	0.57
12:0X:63:SER:OG	12:0X:65:GLU:OE1	2.19	0.57
12:0X:139:TYR:HB3	12:0X:151:LEU:HD13	1.87	0.57
13:1B:1338:ARG:NH1	13:1B:1339:LEU:O	2.38	0.57
13:1B:1530:LEU:HD12	13:1B:1534:ALA:HA	1.86	0.57
14:1G:821:PRO:HA	14:1G:825:VAL:HB	1.86	0.57
17:1a:73:MET:CE	17:1a:92:PHE:HB3	2.35	0.57
17:1c:52:ASN:OD1	17:1c:62:ARG:NH2	2.36	0.57
17:1c:130:LEU:O	17:1c:162:ARG:NE	2.36	0.57
17:1g:27:GLU:OE2	17:1g:318:ARG:NH2	2.37	0.57
18:2b:237:SER:HA	18:2b:320:ARG:HD2	1.86	0.57
17:3e:375:GLN:HG3	17:3e:419:VAL:HG13	1.86	0.57
17:4a:125:GLU:OE1	17:5a:291:GLN:NE2	2.38	0.57
18:5d:64:ARG:NH1	18:5d:129:CYS:SG	2.77	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:5h:132:LEU:HB3	18:5h:164:LYS:HE2	1.86	0.57
18:8f:217:LEU:HD21	18:8f:368:LEU:HD23	1.87	0.57
17:9a:46:ARG:NH2	18:9h:76:ASP:OD2	2.37	0.57
17:9c:99:ASN:HD22	17:9c:141:GLY:HA2	1.69	0.57
18:9d:336:LYS:NZ	18:9d:348:PRO:O	2.36	0.57
17:Aa:330:MET:HE2	17:Aa:349:VAL:HG13	1.85	0.57
18:Af:267:PHE:HB2	18:Af:384:ILE:HD12	1.86	0.57
18:Bd:141:VAL:HG13	18:Bd:190:SER:OG	2.05	0.57
17:Cc:247:ASN:HD22	17:Cc:247:ASN:C	2.10	0.57
17:Ce:253:LEU:HD11	17:Ce:316:LEU:HD21	1.86	0.57
18:Ch:104:ALA:HB2	18:Ch:413:MET:HE3	1.87	0.57
17:Dc:290:THR:HA	17:Dc:293:MET:HE3	1.84	0.57
18:Dh:4:VAL:HG22	18:Dh:133:GLN:HB2	1.86	0.57
1:0C:346:ASP:OD2	2:0E:152:ARG:NH2	2.32	0.57
3:0I:538:ARG:HH22	14:1G:983:ARG:HB3	1.70	0.57
3:0J:450:THR:HA	3:0J:489:PRO:HB3	1.85	0.57
7:0Q:588:SER:OG	7:0Q:609:ASP:OD2	2.20	0.57
7:0S:342:VAL:HG11	7:0S:604:VAL:HG11	1.86	0.57
13:1B:1138:HIS:O	13:1B:1281:LYS:NZ	2.31	0.57
13:1C:1184:PRO:HG2	13:1C:1262:ARG:HH11	1.67	0.57
17:1a:201:VAL:HG11	17:1a:377:MET:HE1	1.85	0.57
17:1e:10:GLY:O	17:1e:14:ASN:ND2	2.37	0.57
18:2b:399:TYR:O	18:2b:402:ARG:NH1	2.32	0.57
17:2c:100:ASN:HB3	17:2c:103:LYS:HB2	1.87	0.57
18:2f:222:PRO:HD2	17:2g:324:LYS:HG2	1.87	0.57
17:3c:391:ARG:NH2	18:3d:437:ALA:O	2.37	0.57
17:4g:74:ASP:OD1	17:4g:77:ARG:NH2	2.37	0.57
17:6g:139:LEU:HD12	17:6g:170:VAL:HG22	1.86	0.57
17:7c:52:ASN:OD1	17:7c:62:ARG:NH2	2.37	0.57
18:7d:269:LEU:HD22	18:7d:301:MET:HE2	1.86	0.57
18:7h:336:LYS:NZ	18:7h:348:PRO:O	2.38	0.57
18:9f:21:TRP:CZ2	18:9f:65:CYS:HB2	2.39	0.57
17:9g:10:GLY:O	17:9g:14:ASN:ND2	2.37	0.57
17:Ag:220:PRO:HG2	18:Ah:326:LYS:CE	2.34	0.57
18:Cb:244:PHE:O	18:Cb:356:ASN:ND2	2.37	0.57
17:Cc:207:LEU:HB3	17:Cc:225:LEU:HD22	1.86	0.57
3:0I:362:ILE:HA	3:0I:366:GLU:HB2	1.86	0.57
12:0X:277:ALA:HB3	12:0X:285:VAL:HG23	1.86	0.57
12:0Y:87:ILE:HG12	12:0Y:307:VAL:HB	1.86	0.57
12:0Z:63:SER:OG	12:0Z:65:GLU:OE1	2.19	0.57
18:3f:301:MET:HA	18:3f:301:MET:HE3	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:3h:11:GLN:N	21:3h:501:GTP:O1A	2.37	0.57
18:4b:217:LEU:HD21	18:4b:368:LEU:HD23	1.85	0.57
17:4c:326:VAL:O	17:4c:330:MET:HG2	2.04	0.57
17:4g:52:ASN:OD1	17:4g:62:ARG:NH2	2.37	0.57
18:5b:21:TRP:CZ2	18:5b:65:CYS:HB2	2.40	0.57
17:6e:318:ARG:HB3	17:6e:357:PRO:HA	1.87	0.57
17:6g:152:ILE:HG23	17:6g:164:MET:SD	2.45	0.57
18:7h:324:VAL:HG13	18:7h:327:ASP:H	1.70	0.57
17:8a:112:LEU:HD23	17:8a:147:MET:HE1	1.85	0.57
17:8c:212:PHE:HB2	18:8d:326:LYS:NZ	2.19	0.57
17:8g:99:ASN:HA	17:8g:142:GLY:H	1.69	0.57
17:9e:86:ARG:NH1	17:Ae:281:TYR:HB3	2.20	0.57
18:Ad:16:VAL:HA	18:Ad:228:ASN:HB3	1.85	0.57
18:Bh:9:ILE:HD11	18:Bh:153:LEU:HD23	1.86	0.57
17:Ca:375:GLN:HG3	17:Ca:419:VAL:HG13	1.85	0.57
17:Dc:73:MET:CE	17:Dc:92:PHE:HB3	2.34	0.57
18:Dd:9:ILE:HD13	18:Dd:150:GLY:HA2	1.87	0.57
1:0C:398:GLU:O	1:0C:400:GLN:NE2	2.37	0.57
3:0I:309:ARG:NH1	18:Bh:420:GLU:O	2.38	0.57
13:1B:1299:LEU:HD21	13:1B:1327:LEU:HD13	1.86	0.57
14:1G:874:GLU:OE2	14:1G:877:ARG:NH2	2.38	0.57
17:1a:267:MET:HG3	17:1a:299:MET:HE2	1.85	0.57
18:1d:104:ALA:HB2	18:1d:413:MET:HE3	1.87	0.57
17:1e:54:ALA:HB3	17:1e:58:ARG:HB3	1.87	0.57
18:3h:399:TYR:O	18:3h:402:ARG:NH1	2.34	0.57
18:5d:160:ASP:OD1	18:5d:161:TYR:N	2.34	0.57
18:5f:132:LEU:HB3	18:5f:164:LYS:HE2	1.86	0.57
17:6c:31:ASP:OD2	17:6c:33:THR:OG1	2.21	0.57
18:6f:180:ALA:HB3	18:6f:183:GLU:HB2	1.87	0.57
18:8f:160:ASP:OD1	18:8f:161:TYR:N	2.36	0.57
18:Bd:252:ILE:HA	18:Bd:255:PHE:HD1	1.70	0.57
17:Ca:172:SER:OG	17:Ca:175:VAL:O	2.22	0.57
1:0B:434:VAL:HG21	1:0B:469:THR:HG21	1.86	0.57
1:0B:540:ASN:ND2	1:0B:581:VAL:O	2.35	0.57
2:0G:56:ASP:O	2:0G:80:ARG:NE	2.36	0.57
7:0S:299:PHE:HD2	7:0S:311:LEU:HD23	1.69	0.57
13:1C:1751:VAL:HG21	13:1C:1759:ALA:HB2	1.85	0.57
14:1F:605:GLU:HG2	14:1F:627:GLY:HA3	1.86	0.57
17:2a:238:CYS:SG	17:2a:241:ARG:NH2	2.78	0.57
18:2f:9:ILE:HD13	18:2f:150:GLY:HA2	1.87	0.57
17:3g:130:LEU:O	17:3g:162:ARG:NE	2.37	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4a:163:MET:HE3	17:4a:251:ARG:NH1	2.20	0.57
18:4d:76:ASP:OD2	17:4e:46:ARG:NH2	2.38	0.57
17:4g:20:PHE:HA	17:4g:230:SER:HB2	1.86	0.57
18:5b:4:VAL:HG22	18:5b:133:GLN:HB2	1.85	0.57
18:6f:237:SER:HA	18:6f:320:ARG:HD2	1.86	0.57
18:7d:206:ASN:OD1	21:7d:501:GTP:N2	2.34	0.57
18:7h:101:ASN:HA	18:7h:144:GLY:H	1.70	0.57
18:8b:267:PHE:HB2	18:8b:384:ILE:HD12	1.87	0.57
18:9d:27:GLU:OE2	18:9d:236:SER:OG	2.15	0.57
18:Bf:223:THR:OG1	17:Bg:245:GLN:OE1	2.23	0.57
18:Bf:325:PRO:HA	18:Bf:328:VAL:HG12	1.85	0.57
18:Bh:217:LEU:HD21	18:Bh:368:LEU:HD23	1.87	0.57
18:Cd:70:LEU:HG	18:Cd:145:THR:HG23	1.87	0.57
18:Ch:160:ASP:OD1	18:Ch:161:TYR:N	2.37	0.57
17:Da:299:MET:HE1	17:Da:367:PHE:CE2	2.39	0.57
3:0I:512:GLU:HA	3:0I:528:THR:HA	1.85	0.57
3:0J:309:ARG:HH22	18:Bd:424:ASP:HB2	1.70	0.57
8:0T:94:UNK:N	18:Df:338:LYS:HD3	2.20	0.57
12:0X:351:LEU:O	12:0X:355:GLU:HG2	2.05	0.57
14:1F:406:ILE:HG13	14:1F:407:PRO:HD3	1.86	0.57
18:1d:326:LYS:HG3	18:1d:327:ASP:N	2.20	0.57
18:1h:316:CYS:HB3	18:1h:378:ILE:HG23	1.87	0.57
18:2b:180:ALA:HB3	18:2b:183:GLU:HB2	1.86	0.57
18:4h:399:TYR:O	18:4h:402:ARG:NH1	2.34	0.57
18:5f:360:PRO:HG3	18:5f:374:ALA:HB2	1.87	0.57
17:6a:139:LEU:HD12	17:6a:170:VAL:HG22	1.87	0.57
18:6d:160:ASP:OD1	18:6d:161:TYR:N	2.38	0.57
17:7a:324:LYS:HG2	18:7h:222:PRO:HD2	1.87	0.57
17:7g:86:ARG:HH12	17:8g:282:ARG:HA	1.70	0.57
18:Af:272:TYR:HB3	18:Af:275:ILE:HD11	1.87	0.57
17:Ag:145:SER:HB3	17:Ag:188:SER:OG	2.05	0.57
18:Ah:21:TRP:CZ2	18:Ah:65:CYS:HB2	2.39	0.57
17:Bc:159:TYR:HB3	17:Bc:162:ARG:HG3	1.87	0.57
18:Bf:160:ASP:OD1	18:Bf:161:TYR:N	2.38	0.57
18:Cb:336:LYS:NZ	18:Cb:348:PRO:O	2.38	0.57
18:Ch:11:GLN:N	21:Ch:501:GTP:O1A	2.38	0.57
17:Dc:7:ILE:HD13	17:Dc:151:LEU:HD21	1.87	0.57
18:Dd:70:LEU:HD12	18:Dd:99:ALA:HB2	1.86	0.57
18:Df:144:GLY:N	21:Df:501:GTP:O2G	2.38	0.57
1:0D:512:THR:HB	1:0D:539:ALA:HB3	1.86	0.56
2:0F:81:TYR:CZ	2:0F:145:PHE:HB3	2.41	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:0J:172:LEU:HD21	3:0J:174:MET:HE3	1.86	0.56
3:0J:512:GLU:HA	3:0J:528:THR:HA	1.87	0.56
5:0M:222:LEU:HD22	5:0M:232:ILE:HG13	1.86	0.56
5:0N:257:ARG:HH11	18:Cb:278:ALA:HB3	1.70	0.56
12:1A:233:VAL:HG23	12:1A:234:LEU:H	1.69	0.56
14:1D:419:THR:HG22	14:1D:421:VAL:H	1.70	0.56
16:1M:38:UNK:O	16:1M:40:UNK:N	2.38	0.56
17:1a:67:ASP:O	17:1a:92:PHE:HA	2.05	0.56
18:1f:324:VAL:HG13	18:1f:327:ASP:H	1.68	0.56
18:1h:21:TRP:CZ2	18:1h:65:CYS:HB2	2.40	0.56
17:2a:198:GLU:HG3	17:2a:266:PHE:HE2	1.68	0.56
18:2b:16:VAL:HA	18:2b:228:ASN:HB3	1.86	0.56
17:3a:282:ARG:NH1	17:3a:292:GLN:OE1	2.29	0.56
17:3e:100:ASN:HB3	17:3e:103:LYS:HB2	1.86	0.56
18:6d:101:ASN:HA	18:6d:144:GLY:H	1.69	0.56
17:7c:66:MET:HE3	17:7c:147:MET:HB3	1.87	0.56
17:7e:198:GLU:HG3	17:7e:266:PHE:HE2	1.69	0.56
17:8a:388:MET:SD	17:8a:393:ALA:HB3	2.45	0.56
17:8c:267:MET:HE1	17:8c:305:PRO:HG3	1.86	0.56
18:8d:12:ALA:HB3	18:8d:140:ALA:HB2	1.87	0.56
17:8e:215:LEU:HB3	17:8e:217:LEU:HD13	1.87	0.56
17:Ag:203:ASP:OD2	17:Ag:302:ALA:N	2.30	0.56
18:Ah:399:TYR:O	18:Ah:402:ARG:NH1	2.35	0.56
17:Bg:145:SER:HB3	17:Bg:188:SER:OG	2.04	0.56
18:Cd:237:SER:HA	18:Cd:320:ARG:HD2	1.87	0.56
17:Cg:66:MET:HG2	17:Cg:147:MET:HE3	1.86	0.56
17:Dg:397:TRP:CZ2	18:Dh:256:GLN:HB3	2.39	0.56
16:1L:38:UNK:O	16:1L:40:UNK:N	2.38	0.56
1:0A:184:TYR:CZ	1:0D:184:TYR:HB3	2.40	0.56
5:0M:361:LEU:HA	18:Cf:84:ARG:NH1	2.20	0.56
7:0Q:141:HIS:HE1	7:0Q:188:GLY:H	1.52	0.56
7:0Q:224:VAL:HG12	7:0Q:231:VAL:HA	1.87	0.56
14:1G:960:TRP:CE2	14:1G:991:LEU:HD21	2.40	0.56
18:3b:325:PRO:HA	18:3b:328:VAL:HG12	1.86	0.56
17:3c:139:LEU:HD12	17:3c:170:VAL:HG22	1.87	0.56
18:3f:169:PHE:HZ	18:3f:238:LEU:HD13	1.70	0.56
17:4a:52:ASN:OD1	17:4a:62:ARG:NH2	2.37	0.56
17:5e:299:MET:HE3	17:5e:299:MET:HA	1.87	0.56
17:5g:289:LEU:HD22	17:5g:363:MET:HE2	1.88	0.56
17:6e:74:ASP:OD1	17:6e:77:ARG:NH2	2.37	0.56
17:9a:325:GLU:OE1	18:9h:221:ARG:HD2	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:9g:140:GLY:HA2	17:9g:184:ASN:HB2	1.86	0.56
17:Ag:140:GLY:HA2	17:Ag:184:ASN:HB2	1.86	0.56
18:Ah:316:CYS:HB3	18:Ah:378:ILE:HG23	1.86	0.56
18:Bh:5:ILE:HG13	18:Bh:132:LEU:HD11	1.87	0.56
17:Cc:52:ASN:OD1	17:Cc:62:ARG:NH2	2.37	0.56
17:Cg:381:VAL:HB	17:Cg:415:MET:HE1	1.88	0.56
17:Dg:326:VAL:O	17:Dg:330:MET:HG2	2.06	0.56
1:0A:162:HIS:HB3	1:0D:163:HIS:CE1	2.40	0.56
1:0B:321:THR:HG22	1:0B:603:ARG:HG2	1.86	0.56
1:0C:206:MET:HG2	18:Cd:396:ASP:HB2	1.85	0.56
3:0I:167:ARG:HG3	18:Bh:430:LYS:HE2	1.86	0.56
3:0J:504:ALA:HA	3:0J:535:ALA:HB3	1.87	0.56
5:0M:253:ILE:HD12	5:0M:265:VAL:HG13	1.87	0.56
6:0O:90:LYS:HG2	6:0O:94:TYR:CE1	2.40	0.56
7:0Q:173:GLU:OE2	7:0Q:190:LYS:NZ	2.39	0.56
7:0Q:215:GLY:HA3	7:0Q:242:VAL:HG11	1.86	0.56
7:0S:559:ALA:HA	7:0S:576:ARG:HH22	1.69	0.56
12:0Z:171:THR:O	12:0Z:236:LYS:NZ	2.37	0.56
13:1B:1314:ALA:HB3	13:1B:1317:GLU:HB2	1.87	0.56
13:1B:1326:VAL:HG13	13:1B:1372:VAL:HG13	1.87	0.56
14:1E:1029:LEU:HB2	14:1E:1045:GLU:HB3	1.86	0.56
14:1G:666:LEU:HG	14:1G:670:TYR:HE1	1.69	0.56
18:1d:237:SER:HA	18:1d:320:ARG:HD2	1.87	0.56
18:1d:255:PHE:O	18:1d:259:LEU:HB2	2.05	0.56
17:1g:30:ILE:HD11	17:1g:47:ILE:HD11	1.86	0.56
17:2c:27:GLU:OE2	17:2c:318:ARG:NH2	2.37	0.56
17:2c:145:SER:HB3	17:2c:188:SER:OG	2.05	0.56
17:2c:198:GLU:HG3	17:2c:266:PHE:CE2	2.40	0.56
17:2g:375:GLN:HG3	17:2g:419:VAL:HG13	1.86	0.56
18:2h:169:PHE:HZ	18:2h:238:LEU:HD13	1.70	0.56
18:3b:132:LEU:HB3	18:3b:164:LYS:HE2	1.86	0.56
17:4e:217:LEU:HD12	17:4e:276:ARG:HH12	1.70	0.56
18:4f:336:LYS:NZ	18:4f:348:PRO:O	2.38	0.56
17:5a:167:PHE:CD2	17:5a:233:MET:HE2	2.41	0.56
17:5c:167:PHE:HA	17:5c:200:MET:HB2	1.88	0.56
18:5f:267:PHE:HB2	18:5f:384:ILE:HD12	1.86	0.56
17:5g:397:TRP:CZ2	18:5h:256:GLN:HB3	2.40	0.56
17:6a:20:PHE:HA	17:6a:230:SER:HB2	1.85	0.56
17:6a:207:LEU:HD13	17:6a:225:LEU:HB3	1.86	0.56
17:6e:130:LEU:O	17:6e:162:ARG:NE	2.39	0.56
18:6h:160:ASP:OD1	18:6h:161:TYR:N	2.37	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:7b:21:TRP:CZ2	18:7b:65:CYS:HB2	2.40	0.56
18:7h:313:MET:HE3	18:7h:380:ASN:HB3	1.86	0.56
17:8a:139:LEU:HD12	17:8a:170:VAL:HG22	1.87	0.56
18:8b:104:ALA:HB2	18:8b:413:MET:HE3	1.86	0.56
17:8c:73:MET:SD	17:8c:92:PHE:HB3	2.45	0.56
17:8c:100:ASN:HB3	17:8c:103:LYS:HB2	1.87	0.56
18:8d:21:TRP:CZ2	18:8d:65:CYS:HB2	2.40	0.56
17:8e:375:GLN:NE2	17:8e:423:GLN:OE1	2.28	0.56
17:9c:215:LEU:HB3	17:9c:217:LEU:HD13	1.86	0.56
18:9d:90:GLU:OE1	18:9d:121:ARG:NE	2.38	0.56
18:Af:9:ILE:HD13	18:Af:150:GLY:HA2	1.87	0.56
18:Ah:4:VAL:HG22	18:Ah:133:GLN:HB2	1.87	0.56
17:Ba:86:ARG:HD3	17:Ba:87:PRO:HD2	1.86	0.56
17:Ba:204:ASN:HA	17:Ba:207:LEU:HD12	1.86	0.56
18:Bb:160:ASP:OD1	18:Bb:161:TYR:N	2.39	0.56
18:Bd:11:GLN:N	21:Bd:501:GTP:O1A	2.38	0.56
18:Bd:222:PRO:O	17:Be:322:SER:OG	2.21	0.56
17:Be:7:ILE:HD13	17:Be:151:LEU:HD21	1.87	0.56
18:Bh:188:VAL:HG13	18:Bh:425:LEU:HD13	1.85	0.56
18:Cb:246:GLY:HA2	18:Cb:357:TYR:CE2	2.40	0.56
18:Cd:128:ASN:ND2	18:Dd:285:GLN:OE1	2.34	0.56
17:Da:140:GLY:HA2	17:Da:184:ASN:HB2	1.88	0.56
17:De:20:PHE:HA	17:De:230:SER:HB2	1.88	0.56
17:De:201:VAL:HG11	17:De:377:MET:HE1	1.87	0.56
3:0I:173:ALA:HA	3:0I:176:ARG:HE	1.70	0.56
3:0I:195:PRO:HD2	3:0I:326:TYR:HE1	1.71	0.56
12:0X:11:ARG:NH2	12:0X:64:GLN:OE1	2.38	0.56
12:1A:137:VAL:HG21	12:1A:190:GLN:NE2	2.19	0.56
17:3c:140:GLY:HA2	17:3c:184:ASN:HB2	1.88	0.56
18:3h:255:PHE:O	18:3h:259:LEU:HB2	2.05	0.56
17:5a:289:LEU:HD13	17:5a:363:MET:HE3	1.87	0.56
18:5d:21:TRP:CZ2	18:5d:65:CYS:HB2	2.40	0.56
17:6a:172:SER:OG	17:6a:175:VAL:O	2.22	0.56
18:6f:11:GLN:N	21:6f:501:GTP:O1A	2.35	0.56
18:7h:254:GLU:OE1	18:7h:254:GLU:N	2.39	0.56
17:8g:375:GLN:NE2	17:8g:423:GLN:HB2	2.20	0.56
18:9f:16:VAL:HA	18:9f:228:ASN:HB3	1.87	0.56
18:Ah:2:ARG:HB3	18:Ah:242:LEU:HD12	1.86	0.56
17:Bc:286:VAL:HG22	17:Bc:321:MET:HE3	1.87	0.56
18:Bd:152:LEU:O	18:Bd:156:ARG:HG2	2.06	0.56
18:Dd:11:GLN:N	21:Dd:501:GTP:O1A	2.37	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0N:243:LEU:HB3	5:0N:279:GLU:HB3	1.86	0.56
7:0Q:524:ASP:HA	17:1g:39:ASP:OD2	2.05	0.56
7:0Q:559:ALA:HA	7:0Q:576:ARG:HH22	1.69	0.56
11:0W:23:UNK:O	17:Ce:416:ASN:ND2	2.39	0.56
12:0X:315:GLU:HB2	12:0X:318:HIS:HB2	1.87	0.56
12:0Y:233:VAL:HG23	12:0Y:234:LEU:H	1.70	0.56
14:1E:820:THR:O	14:1E:823:SER:OG	2.19	0.56
18:1b:160:ASP:OD1	18:1b:161:TYR:N	2.38	0.56
17:2a:299:MET:HE3	17:2a:305:PRO:HG2	1.88	0.56
18:2b:101:ASN:HA	18:2b:144:GLY:H	1.70	0.56
18:2b:267:PHE:HB2	18:2b:384:ILE:HD12	1.87	0.56
18:2d:180:ALA:HB3	18:2d:183:GLU:HB2	1.87	0.56
18:3f:60:LYS:NZ	18:3f:85:GLN:O	2.38	0.56
17:4e:52:ASN:OD1	17:4e:62:ARG:NH2	2.39	0.56
18:4h:4:VAL:HG22	18:4h:133:GLN:HB2	1.88	0.56
17:6a:143:THR:O	17:6a:147:MET:HG2	2.06	0.56
18:7d:132:LEU:HB3	18:7d:164:LYS:HE2	1.86	0.56
18:7f:259:LEU:HD22	18:7f:268:MET:HE1	1.88	0.56
18:9f:132:LEU:HB3	18:9f:164:LYS:HE2	1.87	0.56
17:Ce:247:ASN:HD22	17:Ce:247:ASN:C	2.11	0.56
17:Cg:73:MET:HA	17:Cg:76:VAL:HB	1.87	0.56
18:Ch:216:SER:O	18:Ch:280:LYS:NZ	2.36	0.56
17:Da:20:PHE:HA	17:Da:230:SER:HB2	1.87	0.56
18:Df:11:GLN:N	21:Df:501:GTP:O1A	2.37	0.56
18:Dh:27:GLU:OE2	18:Dh:320:ARG:NH2	2.33	0.56
1:0B:328:SER:HA	1:0B:600:ASN:HA	1.87	0.56
3:0I:452:ALA:HB2	3:0I:489:PRO:HD3	1.88	0.56
5:0M:70:ASP:OD2	5:0M:128:ARG:NH2	2.35	0.56
7:0Q:335:ALA:HB3	7:0Q:338:GLN:HB2	1.86	0.56
13:1B:1155:ASP:O	13:1B:1156:ARG:HG2	2.06	0.56
17:1e:273:LEU:H	17:1e:292:GLN:HE22	1.54	0.56
17:1g:67:ASP:O	17:1g:92:PHE:HA	2.05	0.56
17:2a:30:ILE:HD11	17:2a:47:ILE:HD11	1.87	0.56
17:2c:52:ASN:OD1	17:2c:62:ARG:NH2	2.38	0.56
17:2g:130:LEU:O	17:2g:162:ARG:NE	2.38	0.56
17:5e:267:MET:HG3	17:5e:299:MET:HE2	1.87	0.56
17:6a:403:MET:HE1	17:6a:408:PHE:CE1	2.41	0.56
18:6b:320:ARG:HB2	18:6b:374:ALA:HB3	1.87	0.56
17:9a:274:THR:HG22	17:9a:282:ARG:HD3	1.87	0.56
18:9b:223:THR:OG1	17:9c:245:GLN:OE1	2.24	0.56
18:9d:158:SER:N	18:9d:166:LYS:HZ1	2.04	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9h:12:ALA:HB3	18:9h:140:ALA:HB2	1.88	0.56
17:Ae:397:TRP:CZ2	18:Af:256:GLN:HB3	2.40	0.56
18:Bh:215:ARG:HH22	18:Bh:300:SER:CA	2.12	0.56
18:Cb:101:ASN:ND2	21:Cb:501:GTP:O1G	2.38	0.56
18:Ch:325:PRO:HA	18:Ch:328:VAL:HG12	1.88	0.56
18:Db:9:ILE:HD13	18:Db:150:GLY:HA2	1.87	0.56
1:0A:95:PHE:HA	1:0D:91:THR:HG22	1.87	0.56
6:0O:135:ARG:HD3	17:Cg:15:GLN:NE2	2.21	0.56
7:0Q:180:ASP:O	7:0Q:184:GLY:N	2.36	0.56
12:0Z:145:GLU:OE1	12:0Z:290:THR:OG1	2.23	0.56
12:1A:151:LEU:HD21	12:1A:190:GLN:HG3	1.87	0.56
18:1f:336:LYS:NZ	18:1f:348:PRO:O	2.38	0.56
18:2b:160:ASP:OD1	18:2b:161:TYR:N	2.38	0.56
18:2h:11:GLN:N	21:2h:501:GTP:O1A	2.31	0.56
18:3b:399:TYR:O	18:3b:402:ARG:NH1	2.32	0.56
17:3c:328:GLU:OE2	17:3c:332:ASN:ND2	2.34	0.56
18:4b:70:LEU:HD12	18:4b:99:ALA:HB2	1.87	0.56
17:4c:52:ASN:OD1	17:4c:62:ARG:NH2	2.38	0.56
17:5c:232:VAL:HG21	17:5c:300:MET:SD	2.46	0.56
18:8b:70:LEU:HD12	18:8b:99:ALA:HB2	1.88	0.56
17:9a:163:MET:HE3	17:9a:251:ARG:NH1	2.20	0.56
18:9b:16:VAL:HA	18:9b:228:ASN:HB3	1.87	0.56
17:9c:139:LEU:HD12	17:9c:170:VAL:HG22	1.88	0.56
17:9g:215:LEU:HB3	17:9g:217:LEU:HD13	1.87	0.56
18:9h:192:HIS:ND1	18:9h:424:ASP:OD2	2.35	0.56
17:Ag:52:ASN:OD1	17:Ag:62:ARG:NH2	2.38	0.56
17:Ba:10:GLY:O	17:Ba:14:ASN:ND2	2.39	0.56
17:Bc:73:MET:SD	17:Bc:90:PHE:HD2	2.29	0.56
18:Bh:119:LEU:HG	18:Bh:156:ARG:HG2	1.88	0.56
17:Ca:140:GLY:HA2	17:Ca:184:ASN:HB2	1.88	0.56
18:Cb:2:ARG:HB3	18:Cb:242:LEU:HD12	1.87	0.56
18:Cb:269:LEU:HD22	18:Cb:301:MET:HE2	1.88	0.56
17:Ce:30:ILE:HD11	17:Ce:47:ILE:HD11	1.87	0.56
17:Cg:273:LEU:H	17:Cg:292:GLN:HE22	1.52	0.56
17:De:52:ASN:OD1	17:De:62:ARG:NH2	2.38	0.56
18:Df:30:ILE:HA	18:Df:36:MET:HB3	1.88	0.56
17:Dg:33:THR:O	17:Dg:58:ARG:NH1	2.38	0.56
1:0C:76:ASP:OD2	1:0C:80:ARG:NH2	2.39	0.56
1:0C:313:VAL:HG11	1:0C:550:VAL:HG11	1.88	0.56
12:0X:171:THR:HG21	12:0X:297:ARG:HB3	1.86	0.56
14:1D:965:ALA:HA	14:1D:970:ARG:HE	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1E:820:THR:HB	14:1E:826:LEU:HD11	1.88	0.56
18:2d:201:ALA:O	18:2d:267:PHE:HA	2.06	0.56
17:3c:27:GLU:OE2	17:3c:318:ARG:NH2	2.39	0.56
17:3c:299:MET:HE2	17:3c:299:MET:HA	1.88	0.56
17:3e:290:THR:HA	17:3e:293:MET:HE3	1.88	0.56
18:3h:147:SER:HB2	18:3h:190:SER:HB3	1.88	0.56
17:6a:7:ILE:HD13	17:6a:151:LEU:HD21	1.87	0.56
17:6c:215:LEU:HB3	17:6c:217:LEU:HD13	1.87	0.56
18:6d:4:VAL:HG22	18:6d:133:GLN:HB2	1.88	0.56
17:6g:12:CYS:HB2	20:6g:501:GDP:C8	2.41	0.56
17:7e:102:ALA:HA	17:7e:403:MET:HE3	1.87	0.56
17:7e:350:LYS:NZ	17:7e:351:SER:O	2.37	0.56
17:9g:268:VAL:HG12	17:9g:368:ILE:HA	1.88	0.56
17:Ag:208:TYR:CD1	18:Ah:326:LYS:HE3	2.41	0.56
18:Cf:9:ILE:HD13	18:Cf:150:GLY:HA2	1.88	0.56
17:Da:286:VAL:HG22	17:Da:321:MET:HE3	1.88	0.56
1:0C:561:LYS:HG2	1:0C:573:GLU:HG3	1.88	0.56
1:0D:370:TRP:HZ3	1:0D:372:ALA:HB2	1.71	0.56
5:0M:418:ALA:HB2	17:Dg:320:ARG:HA	1.88	0.56
7:0S:329:LEU:HA	7:0S:346:SER:HA	1.88	0.56
12:0Y:122:PHE:HA	12:0Y:125:VAL:HG22	1.86	0.56
17:1a:375:GLN:NE2	17:1a:423:GLN:OE1	2.31	0.56
18:1f:9:ILE:HD11	18:1f:153:LEU:HD23	1.88	0.56
17:2g:30:ILE:HD11	17:2g:47:ILE:HD11	1.86	0.56
18:2h:147:SER:HB2	18:2h:190:SER:HB3	1.88	0.56
17:3a:198:GLU:HG3	17:3a:266:PHE:CE2	2.39	0.56
18:3h:269:LEU:HD22	18:3h:303:VAL:HB	1.88	0.56
17:4a:10:GLY:O	17:4a:14:ASN:ND2	2.39	0.56
17:4a:200:MET:HE1	17:4a:268:VAL:HG13	1.87	0.56
18:4d:133:GLN:O	18:4d:165:SER:OG	2.24	0.56
18:4d:255:PHE:O	18:4d:259:LEU:HB2	2.06	0.56
18:4f:137:VAL:HG21	18:4f:154:LEU:HD21	1.88	0.56
17:4g:7:ILE:HD13	17:4g:151:LEU:HD21	1.86	0.56
18:4h:2:ARG:HB3	18:4h:242:LEU:HD12	1.86	0.56
17:6a:7:ILE:HB	17:6a:135:VAL:HG22	1.86	0.56
18:6h:21:TRP:CZ2	18:6h:65:CYS:HB2	2.40	0.56
17:7a:130:LEU:O	17:7a:162:ARG:NE	2.39	0.56
18:7f:252:ILE:HD13	18:7f:255:PHE:CE2	2.41	0.56
18:8d:76:ASP:OD2	17:8e:46:ARG:NH2	2.36	0.56
17:8g:178:THR:HG22	18:8h:352:LYS:HZ3	1.71	0.56
18:9d:174:SER:HB2	18:9d:177:VAL:O	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9d:319:TYR:HB3	18:9d:323:VAL:HG21	1.88	0.56
17:Aa:113:ILE:HG13	17:Aa:117:LEU:HD23	1.88	0.56
17:Aa:215:LEU:HB3	17:Aa:217:LEU:HD13	1.87	0.56
17:Ba:215:LEU:HB3	17:Ba:217:LEU:HD13	1.87	0.56
18:Bd:21:TRP:CZ2	18:Bd:65:CYS:HB2	2.40	0.56
5:0N:252:GLY:HA2	5:0N:255:LYS:HD2	1.88	0.56
7:0S:106:THR:HG22	7:0S:119:ALA:HB3	1.87	0.56
12:0X:170:ASN:O	12:0X:170:ASN:ND2	2.38	0.56
12:1A:155:PRO:HB3	12:1A:159:ASP:HB2	1.88	0.56
14:1D:929:ARG:HG2	14:1D:960:TRP:CE2	2.40	0.56
17:3a:311:LEU:HD23	17:3a:342:VAL:HG21	1.88	0.56
18:3b:9:ILE:HD13	18:3b:150:GLY:HA2	1.88	0.56
18:3b:268:MET:HE3	18:3b:380:ASN:HB2	1.88	0.56
17:5g:49:VAL:O	17:5g:62:ARG:NH1	2.39	0.56
18:7f:12:ALA:HB3	18:7f:140:ALA:HB2	1.87	0.56
18:9f:30:ILE:HA	18:9f:36:MET:HB3	1.88	0.56
18:9h:255:PHE:O	18:9h:259:LEU:HB2	2.06	0.56
18:Ab:324:VAL:HG13	18:Ab:327:ASP:H	1.71	0.56
17:Cc:207:LEU:HD13	17:Cc:225:LEU:HB3	1.87	0.56
17:Dg:20:PHE:HA	17:Dg:230:SER:HB2	1.88	0.56
1:0C:457:ASP:HB3	1:0C:500:VAL:HG12	1.88	0.55
1:0D:394:ILE:O	1:0D:403:VAL:N	2.37	0.55
2:0G:70:ASN:ND2	2:0G:72:PHE:HB2	2.20	0.55
5:0M:274:VAL:HB	5:0M:278:GLY:H	1.71	0.55
7:0Q:210:ALA:HA	7:0Q:226:VAL:HB	1.87	0.55
12:0X:118:ILE:HD11	12:0X:188:LEU:HD23	1.87	0.55
12:0X:229:SER:HB2	12:0X:352:ARG:HD2	1.89	0.55
12:0Y:266:ARG:HH11	18:9h:410:GLY:HA3	1.71	0.55
13:1C:1142:GLU:HG3	13:1C:1144:THR:H	1.70	0.55
13:1C:1326:VAL:HG13	13:1C:1372:VAL:HG13	1.88	0.55
14:1E:1007:ALA:HA	14:1E:1010:ARG:HD2	1.88	0.55
14:1F:1038:ARG:HG3	14:1F:1041:ALA:HB3	1.87	0.55
17:1e:212:PHE:HE1	17:1e:220:PRO:HG3	1.71	0.55
18:3h:180:ALA:HB3	18:3h:183:GLU:HB2	1.87	0.55
17:4a:140:GLY:HA2	17:4a:184:ASN:HB2	1.88	0.55
18:4b:21:TRP:CZ2	18:4b:65:CYS:HB2	2.40	0.55
17:4e:272:PRO:HD3	17:4e:364:SER:HA	1.89	0.55
17:5a:100:ASN:HB3	17:5a:103:LYS:HB2	1.88	0.55
18:5b:316:CYS:HB3	18:5b:378:ILE:HG23	1.88	0.55
17:5e:375:GLN:HG3	17:5e:419:VAL:HG13	1.88	0.55
17:6e:139:LEU:HD12	17:6e:170:VAL:HG22	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6f:132:LEU:HB3	18:6f:164:LYS:HE2	1.88	0.55
18:9b:132:LEU:HB3	18:9b:164:LYS:HE2	1.89	0.55
18:9h:16:VAL:HA	18:9h:228:ASN:HB3	1.88	0.55
17:Ac:318:ARG:HB3	17:Ac:357:PRO:HA	1.88	0.55
18:Ad:21:TRP:CZ2	18:Ad:65:CYS:HB2	2.41	0.55
17:Ae:130:LEU:O	17:Ae:162:ARG:NE	2.39	0.55
17:Ae:417:ASP:O	17:Ae:421:GLU:HG2	2.06	0.55
17:Ba:140:GLY:HA2	17:Ba:184:ASN:HB2	1.88	0.55
18:Dd:399:TYR:O	18:Dd:402:ARG:NH1	2.35	0.55
17:De:67:ASP:O	17:De:92:PHE:HA	2.06	0.55
17:De:100:ASN:HB3	17:De:103:LYS:HB2	1.88	0.55
17:Dg:375:GLN:HG3	17:Dg:419:VAL:HG13	1.87	0.55
1:0D:457:ASP:HB3	1:0D:500:VAL:HG12	1.89	0.55
3:0J:150:GLN:O	3:0J:154:TRP:CD1	2.59	0.55
5:0M:180:PRO:O	5:0M:183:TRP:HD1	1.89	0.55
7:0Q:29:TYR:HB3	7:0Q:41:LEU:HG	1.86	0.55
7:0S:71:MET:HB2	7:0S:86:TRP:HB2	1.87	0.55
7:0S:176:LEU:HD13	7:0S:226:VAL:HG13	1.87	0.55
7:0S:218:SER:HA	17:2c:32:PRO:HG2	1.89	0.55
7:0S:414:ALA:O	7:0S:445:ARG:NH1	2.40	0.55
12:0Y:240:VAL:HG21	12:0Y:296:LEU:HD11	1.88	0.55
14:1D:820:THR:OG1	14:1D:821:PRO:HD3	2.06	0.55
14:1E:914:ALA:HB1	14:1E:924:TRP:CE2	2.41	0.55
14:1F:1054:ALA:HB3	14:1F:1057:GLU:HB2	1.88	0.55
17:1a:382:SER:OG	17:1a:415:MET:HE3	2.06	0.55
18:1f:21:TRP:CZ2	18:1f:65:CYS:HB2	2.41	0.55
18:2d:251:ASP:HB2	18:2d:254:GLU:HG2	1.88	0.55
17:2g:247:ASN:C	17:2g:247:ASN:HD22	2.11	0.55
17:3e:7:ILE:HD13	17:3e:151:LEU:HD21	1.88	0.55
17:5e:390:ARG:HD2	17:5e:391:ARG:HH12	1.71	0.55
17:5g:7:ILE:HD13	17:5g:151:LEU:HD21	1.88	0.55
18:6d:21:TRP:CZ2	18:6d:65:CYS:HB2	2.41	0.55
17:6e:12:CYS:HB2	20:6e:501:GDP:C8	2.42	0.55
17:6e:417:ASP:O	17:6e:421:GLU:HG2	2.06	0.55
17:7a:198:GLU:HG3	17:7a:266:PHE:CE2	2.41	0.55
17:7c:311:LEU:HD23	17:7c:342:VAL:HG21	1.87	0.55
17:7g:199:CYS:C	17:7g:200:MET:HE2	2.31	0.55
18:8f:267:PHE:HB2	18:8f:384:ILE:HD12	1.87	0.55
17:9c:207:LEU:HB3	17:9c:225:LEU:HD22	1.87	0.55
18:Ad:4:VAL:HG22	18:Ad:133:GLN:HB2	1.88	0.55
18:Bh:15:GLN:HA	18:Bh:18:ASN:HD22	1.71	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ce:100:ASN:HB3	17:Ce:103:LYS:HB2	1.89	0.55
18:Df:222:PRO:HD2	17:Dg:324:LYS:HG2	1.88	0.55
7:0Q:409:TRP:CD2	7:0Q:452:ARG:HD3	2.40	0.55
13:1B:1317:GLU:OE2	13:1B:1744:GLN:NE2	2.38	0.55
13:1B:1525:ALA:N	13:1B:1620:ASP:OD1	2.39	0.55
18:1b:319:TYR:HB3	18:1b:323:VAL:HG21	1.88	0.55
17:1g:54:ALA:HB3	17:1g:58:ARG:HB3	1.89	0.55
18:1h:64:ARG:NH1	18:1h:129:CYS:SG	2.79	0.55
17:3e:159:TYR:HB3	17:3e:162:ARG:HG3	1.88	0.55
18:4b:132:LEU:HB3	18:4b:164:LYS:HE2	1.88	0.55
18:4b:399:TYR:O	18:4b:402:ARG:NH1	2.36	0.55
17:4e:7:ILE:HD13	17:4e:151:LEU:HD21	1.89	0.55
17:4e:20:PHE:HA	17:4e:230:SER:HB2	1.88	0.55
18:6b:132:LEU:HB3	18:6b:164:LYS:HE2	1.87	0.55
17:8g:373:ALA:O	17:8g:376:GLU:HG2	2.06	0.55
18:9h:336:LYS:NZ	18:9h:348:PRO:O	2.39	0.55
17:Aa:99:ASN:ND2	17:Aa:178:THR:HG21	2.21	0.55
17:Aa:317:PHE:HB3	17:Aa:321:MET:SD	2.46	0.55
18:Ab:60:LYS:NZ	18:Ab:85:GLN:O	2.36	0.55
17:Ac:130:LEU:O	17:Ac:162:ARG:NE	2.39	0.55
18:Bh:237:SER:HA	18:Bh:320:ARG:HD2	1.89	0.55
17:Ce:143:THR:O	17:Ce:147:MET:HB2	2.06	0.55
18:Db:324:VAL:HG23	18:Db:327:ASP:H	1.72	0.55
17:Dg:10:GLY:O	17:Dg:14:ASN:ND2	2.39	0.55
17:Dg:113:ILE:HG13	17:Dg:117:LEU:HD23	1.88	0.55
18:Dh:267:PHE:HB2	18:Dh:384:ILE:HD12	1.87	0.55
16:1L:38:UNK:O	16:1L:39:UNK:C	2.53	0.55
1:0B:166:VAL:HG12	1:0C:166:VAL:HG12	1.88	0.55
1:0C:377:HIS:ND1	1:0C:378:PRO:O	2.40	0.55
3:0J:143:LYS:HD3	17:Bc:410:GLU:HG3	1.88	0.55
5:0M:358:ARG:HA	18:Cf:84:ARG:HD3	1.87	0.55
6:0O:178:SER:HA	6:0O:181:HIS:CE1	2.41	0.55
7:0S:420:SER:HB2	7:0S:440:MET:HB3	1.88	0.55
13:1B:1314:ALA:HA	13:1B:1410:PHE:HB3	1.87	0.55
16:1M:38:UNK:O	16:1M:39:UNK:C	2.53	0.55
17:2a:152:ILE:HG23	17:2a:164:MET:SD	2.47	0.55
18:2f:2:ARG:HB3	18:2f:242:LEU:HD12	1.87	0.55
17:2g:20:PHE:HA	17:2g:230:SER:HB2	1.89	0.55
17:3e:253:LEU:HD11	17:3e:316:LEU:HD21	1.89	0.55
17:4c:318:ARG:HB3	17:4c:357:PRO:HA	1.87	0.55
17:4g:198:GLU:HG3	17:4g:266:PHE:CE2	2.38	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4g:220:PRO:HG2	18:4h:326:LYS:CE	2.33	0.55
18:5d:215:ARG:HH22	18:5d:300:SER:HA	1.71	0.55
17:7a:86:ARG:HG2	17:7a:88:ASP:H	1.71	0.55
17:8a:273:LEU:H	17:8a:292:GLN:HE22	1.54	0.55
17:8e:10:GLY:O	17:8e:14:ASN:ND2	2.39	0.55
17:9a:208:TYR:CE1	17:9a:225:LEU:HD11	2.41	0.55
17:Ce:207:LEU:HB3	17:Ce:225:LEU:HD22	1.88	0.55
18:Cf:176:GLN:NE2	18:Cf:207:GLU:OE2	2.39	0.55
17:Dg:220:PRO:HD2	18:Dh:326:LYS:HD2	1.88	0.55
4:0L:137:LYS:HD3	13:1C:1219:GLU:HG3	1.89	0.55
7:0S:588:SER:OG	7:0S:609:ASP:OD2	2.18	0.55
12:0X:109:ALA:C	12:0X:110:HIS:HD1	2.15	0.55
12:0X:178:LEU:HD11	12:0X:219:HIS:HD2	1.72	0.55
12:0Y:155:PRO:HB3	12:0Y:159:ASP:HB2	1.88	0.55
12:0Z:11:ARG:NH2	12:0Z:64:GLN:OE1	2.39	0.55
13:1C:1314:ALA:HA	13:1C:1410:PHE:HB3	1.88	0.55
17:1e:213:ARG:HH21	17:1e:297:LYS:HD2	1.71	0.55
17:1g:207:LEU:HD13	17:1g:225:LEU:HB3	1.88	0.55
17:2a:52:ASN:OD1	17:2a:62:ARG:NH2	2.38	0.55
18:3b:21:TRP:CZ2	18:3b:65:CYS:HB2	2.41	0.55
18:3b:267:PHE:HB2	18:3b:384:ILE:HD12	1.88	0.55
17:4a:130:LEU:O	17:4a:162:ARG:NE	2.40	0.55
18:4b:76:ASP:OD2	17:4c:46:ARG:NH2	2.39	0.55
18:4d:72:PRO:HB3	17:4e:1:MET:HE2	1.88	0.55
17:4g:113:ILE:HG13	17:4g:117:LEU:HD23	1.89	0.55
18:5h:198:THR:HG21	18:5h:201:ALA:HB2	1.89	0.55
18:6b:21:TRP:CZ2	18:6b:65:CYS:HB2	2.41	0.55
18:6h:255:PHE:O	18:6h:259:LEU:HB2	2.07	0.55
18:6h:259:LEU:HD21	18:6h:316:CYS:HB2	1.88	0.55
18:7d:195:LEU:HD12	18:7d:266:HIS:HE1	1.72	0.55
17:8a:375:GLN:HG3	17:8a:419:VAL:HG13	1.89	0.55
18:Ah:267:PHE:HB2	18:Ah:384:ILE:HD12	1.88	0.55
17:Ce:42:LEU:HA	17:Ce:45:GLU:HG2	1.89	0.55
17:Ce:66:MET:SD	17:Ce:147:MET:HB3	2.47	0.55
5:0N:161:LEU:HA	5:0N:174:ALA:HB3	1.88	0.55
12:0X:280:ARG:NH1	12:0X:282:ASP:OD2	2.40	0.55
13:1B:1152:ALA:O	13:1B:1156:ARG:NH1	2.38	0.55
13:1B:1494:VAL:HG13	13:1B:1514:ILE:HG23	1.88	0.55
13:1C:1204:HIS:HB3	13:1C:1274:PHE:CE2	2.42	0.55
14:1D:887:LEU:HA	14:1D:890:TRP:HD1	1.70	0.55
14:1G:406:ILE:HG13	14:1G:407:PRO:HD3	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1a:273:LEU:H	17:1a:292:GLN:HE22	1.54	0.55
18:1h:103:PHE:HD1	18:1h:413:MET:HE1	1.70	0.55
18:2b:222:PRO:HD2	17:2c:324:LYS:HG2	1.89	0.55
17:3a:7:ILE:HD13	17:3a:151:LEU:HD21	1.89	0.55
18:4h:120:ASP:OD1	18:4h:123:ARG:NH2	2.39	0.55
17:5a:318:ARG:HB3	17:5a:357:PRO:HA	1.88	0.55
18:5b:244:PHE:O	18:5b:356:ASN:ND2	2.38	0.55
17:5c:375:GLN:HG3	17:5c:419:VAL:HG13	1.87	0.55
17:5g:282:ARG:NH1	17:5g:292:GLN:OE1	2.38	0.55
18:6b:255:PHE:O	18:6b:259:LEU:HB2	2.07	0.55
18:6f:319:TYR:HB3	18:6f:323:VAL:HG21	1.88	0.55
17:7e:215:LEU:HB3	17:7e:217:LEU:HD13	1.89	0.55
18:8h:9:ILE:HD13	18:8h:150:GLY:HA2	1.89	0.55
18:8h:269:LEU:HB3	18:8h:301:MET:HE2	1.88	0.55
18:8h:316:CYS:HB3	18:8h:378:ILE:HG23	1.88	0.55
17:Ac:67:ASP:O	17:Ac:92:PHE:HA	2.07	0.55
17:Ae:159:TYR:HB3	17:Ae:162:ARG:HG3	1.88	0.55
17:Ba:208:TYR:CE1	17:Ba:225:LEU:HD11	2.41	0.55
17:Ba:213:ARG:HH21	17:Ba:297:LYS:HD2	1.72	0.55
18:Bf:198:THR:HG21	18:Bf:201:ALA:HB2	1.87	0.55
17:Bg:159:TYR:HB3	17:Bg:162:ARG:HG3	1.88	0.55
17:Cc:282:ARG:HB3	17:Cc:282:ARG:NH1	2.22	0.55
1:0D:342:VAL:HG11	1:0D:383:LEU:HD21	1.89	0.55
3:0J:417:GLN:O	3:0J:449:GLY:HA2	2.06	0.55
12:0X:67:ALA:O	12:0X:71:LEU:HB2	2.07	0.55
12:0Z:123:ARG:HB3	12:0Z:127:MET:HE1	1.89	0.55
12:1A:87:ILE:HG12	12:1A:307:VAL:HB	1.88	0.55
14:1E:439:TYR:CE1	14:1E:443:LEU:HD22	2.41	0.55
17:1c:86:ARG:NH1	17:2c:281:TYR:O	2.40	0.55
17:2a:139:LEU:HD12	17:2a:170:VAL:HG22	1.87	0.55
18:2f:399:TYR:O	18:2f:402:ARG:NH1	2.34	0.55
17:3g:198:GLU:HG3	17:3g:266:PHE:CE2	2.41	0.55
18:5b:201:ALA:O	18:5b:267:PHE:HA	2.07	0.55
17:8a:31:ASP:OD2	17:8a:33:THR:OG1	2.24	0.55
18:8b:9:ILE:HD11	18:8b:153:LEU:HD23	1.88	0.55
18:8f:9:ILE:HD13	18:8f:150:GLY:HA2	1.89	0.55
18:9h:174:SER:HB2	18:9h:177:VAL:O	2.07	0.55
17:Ac:10:GLY:O	17:Ac:14:ASN:ND2	2.40	0.55
17:Ac:52:ASN:OD1	17:Ac:62:ARG:NH2	2.39	0.55
17:Be:10:GLY:O	17:Be:14:ASN:ND2	2.40	0.55
18:Cb:324:VAL:HG23	18:Cb:327:ASP:H	1.71	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Cf:144:GLY:N	21:Cf:501:GTP:O2G	2.40	0.55
18:Dh:206:ASN:OD1	21:Dh:501:GTP:N2	2.40	0.55
1:0B:325:HIS:NE2	1:0B:343:THR:OG1	2.35	0.55
1:0D:438:ASP:HB3	1:0D:441:ALA:HB3	1.88	0.55
1:0D:582:GLN:N	1:0D:596:CYS:O	2.40	0.55
3:0I:309:ARG:HH11	18:Bh:423:GLU:HB2	1.71	0.55
12:1A:45:ASN:ND2	18:9d:431:ASP:OD2	2.39	0.55
13:1B:1204:HIS:HB3	13:1B:1274:PHE:CE2	2.41	0.55
17:1c:98:GLY:HA2	18:1d:254:GLU:HG2	1.89	0.55
17:1g:198:GLU:HG3	17:1g:266:PHE:CE2	2.37	0.55
18:2b:265:ILE:HG21	18:2b:313:MET:HE1	1.88	0.55
17:2c:147:MET:HA	17:2c:147:MET:HE2	1.87	0.55
18:2d:11:GLN:N	21:2d:501:GTP:O1A	2.37	0.55
17:2g:238:CYS:SG	17:2g:241:ARG:NH2	2.80	0.55
18:3b:160:ASP:OD1	18:3b:161:TYR:N	2.37	0.55
18:3b:316:CYS:HB3	18:3b:378:ILE:HG23	1.88	0.55
17:4c:159:TYR:HB3	17:4c:162:ARG:HG3	1.89	0.55
18:4f:180:ALA:HB3	18:4f:183:GLU:HB2	1.87	0.55
17:5g:207:LEU:HD13	17:5g:225:LEU:HB3	1.89	0.55
17:6c:31:ASP:HB3	17:6c:37:HIS:CD2	2.41	0.55
18:6h:101:ASN:OD1	18:6h:186:ASN:ND2	2.37	0.55
18:7d:217:LEU:HD21	18:7d:368:LEU:HD23	1.89	0.55
18:7f:399:TYR:O	18:7f:402:ARG:NH1	2.39	0.55
18:8f:21:TRP:CZ2	18:8f:65:CYS:HB2	2.42	0.55
18:9b:76:ASP:OD2	17:9c:46:ARG:NH2	2.38	0.55
18:9d:12:ALA:HB3	18:9d:140:ALA:HB2	1.88	0.55
18:9d:132:LEU:HB3	18:9d:164:LYS:HE3	1.87	0.55
18:9f:137:VAL:HG21	18:9f:154:LEU:HD21	1.88	0.55
18:9h:182:VAL:HG22	18:9h:185:TYR:HB2	1.89	0.55
17:Ba:87:PRO:HG3	17:Ca:281:TYR:HB3	1.87	0.55
17:Be:67:ASP:OD2	17:Be:72:THR:OG1	2.16	0.55
17:Cg:184:ASN:OD1	17:Cg:398:TYR:OH	2.17	0.55
1:0D:102:LEU:HD21	1:0D:108:LEU:HB2	1.89	0.55
3:0I:176:ARG:HB3	18:Bh:263:PRO:HG2	1.89	0.55
3:0I:417:GLN:O	3:0I:449:GLY:HA2	2.06	0.55
7:0Q:423:VAL:HG21	7:0Q:437:SER:HB2	1.89	0.55
7:0S:141:HIS:HE1	7:0S:188:GLY:H	1.55	0.55
12:0Z:92:GLN:HB2	12:0Z:95:ALA:HB2	1.87	0.55
12:0Z:222:MET:SD	12:0Z:223:ARG:N	2.80	0.55
13:1C:1155:ASP:O	13:1C:1156:ARG:HG2	2.07	0.55
13:1C:1299:LEU:HD21	13:1C:1327:LEU:HD13	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1c:198:GLU:HG3	17:1c:266:PHE:CE2	2.39	0.55
18:1f:237:SER:HA	18:1f:320:ARG:HD2	1.88	0.55
17:3c:54:ALA:HB3	17:3c:58:ARG:HB3	1.89	0.55
17:3e:98:GLY:HA2	18:3f:254:GLU:HG3	1.88	0.55
17:4e:139:LEU:HD12	17:4e:170:VAL:HG22	1.88	0.55
17:4e:209:ASP:O	17:4e:213:ARG:HG2	2.07	0.55
18:5b:70:LEU:HD12	18:5b:99:ALA:HB2	1.89	0.55
17:5e:7:ILE:HB	17:5e:135:VAL:HG22	1.89	0.55
18:5h:301:MET:HE1	18:5h:377:MET:HE1	1.89	0.55
17:6g:267:MET:HE1	17:6g:305:PRO:HG3	1.88	0.55
17:8a:324:LYS:HG2	18:8h:222:PRO:HD2	1.89	0.55
18:8h:180:ALA:HB3	18:8h:183:GLU:HB2	1.89	0.55
17:9e:7:ILE:HD13	17:9e:151:LEU:HD21	1.89	0.55
18:9h:141:VAL:HG13	18:9h:190:SER:OG	2.07	0.55
18:Ah:203:MET:HE3	18:Ah:267:PHE:HB3	1.89	0.55
17:Cg:98:GLY:HA2	18:Ch:254:GLU:HG2	1.88	0.55
17:De:247:ASN:C	17:De:247:ASN:HD22	2.10	0.55
1:0C:370:TRP:HZ3	1:0C:372:ALA:HB2	1.72	0.55
2:0G:66:ARG:NH2	17:Da:402:GLY:O	2.40	0.55
3:0J:458:ARG:HH21	3:0J:513:LEU:HD22	1.72	0.55
7:0S:195:THR:O	17:2c:78:SER:OG	2.21	0.55
7:0S:463:SER:OG	7:0S:483:ASP:OD1	2.25	0.55
7:0S:495:ARG:NE	18:1b:33:ASP:OD1	2.33	0.55
14:1G:554:LEU:H	14:1G:576:ARG:HH21	1.54	0.55
17:1a:140:GLY:HA2	17:1a:184:ASN:HB2	1.89	0.55
17:2g:7:ILE:HD13	17:2g:151:LEU:HD21	1.89	0.55
17:3g:113:ILE:HA	17:3g:116:VAL:HG22	1.89	0.55
17:4a:7:ILE:HD13	17:4a:151:LEU:HD21	1.88	0.55
17:4g:8:GLN:HB3	17:4g:14:ASN:HA	1.89	0.55
17:5a:10:GLY:O	17:5a:14:ASN:ND2	2.40	0.55
17:5g:391:ARG:NH2	18:5h:438:GLU:O	2.40	0.55
17:6a:67:ASP:O	17:6a:92:PHE:HA	2.07	0.55
17:6c:289:LEU:O	17:6c:293:MET:HG2	2.07	0.55
17:7a:159:TYR:HB3	17:7a:162:ARG:HG3	1.89	0.55
18:7f:9:ILE:HD13	18:7f:150:GLY:HA2	1.90	0.55
17:8a:198:GLU:HG3	17:8a:266:PHE:HE2	1.72	0.55
18:9b:405:VAL:HG11	18:9b:415:GLU:OE2	2.07	0.55
18:Ab:2:ARG:HB3	18:Ab:242:LEU:HD12	1.87	0.55
17:Ag:377:MET:HG3	17:Ag:380:ARG:NH2	2.22	0.55
17:Ce:52:ASN:OD1	17:Ce:62:ARG:NH2	2.39	0.55
17:Ce:373:ALA:O	17:Ce:376:GLU:HG2	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Db:217:LEU:HD21	18:Db:368:LEU:HD23	1.89	0.55
18:Dd:101:ASN:ND2	21:Dd:501:GTP:O1G	2.39	0.55
18:Df:221:ARG:HB3	17:Dg:322:SER:HB2	1.89	0.55
18:Dh:21:TRP:CZ2	18:Dh:65:CYS:HB2	2.41	0.55
5:0N:40:THR:HA	5:0N:54:PRO:HD3	1.89	0.54
6:0O:129:THR:HG23	6:0O:131:THR:H	1.70	0.54
7:0Q:303:THR:HG22	7:0Q:305:GLN:H	1.70	0.54
7:0Q:463:SER:OG	7:0Q:483:ASP:OD1	2.26	0.54
7:0S:482:GLU:H	7:0S:505:MET:HE2	1.73	0.54
12:0Z:247:ARG:NH2	18:9b:420:GLU:OE2	2.39	0.54
14:1G:1019:LEU:HB3	14:1G:1022:GLU:OE1	2.08	0.54
17:1a:72:THR:O	17:1a:75:SER:OG	2.23	0.54
17:1c:10:GLY:O	17:1c:14:ASN:ND2	2.40	0.54
18:2f:21:TRP:CZ2	18:2f:65:CYS:HB2	2.42	0.54
17:2g:163:MET:HE3	17:2g:251:ARG:HA	1.89	0.54
18:3h:2:ARG:HB3	18:3h:242:LEU:HD12	1.89	0.54
18:4f:255:PHE:O	18:4f:259:LEU:HB2	2.07	0.54
17:4g:377:MET:HG2	17:4g:380:ARG:HH22	1.72	0.54
17:5e:163:MET:HE3	17:5e:251:ARG:HA	1.89	0.54
17:5e:289:LEU:O	17:5e:293:MET:HG3	2.06	0.54
18:6d:104:ALA:HB2	18:6d:413:MET:HG3	1.89	0.54
17:7a:52:ASN:OD1	17:7a:62:ARG:NH2	2.39	0.54
17:7g:139:LEU:HD12	17:7g:170:VAL:HG22	1.88	0.54
18:9d:316:CYS:HB3	18:9d:378:ILE:HG23	1.89	0.54
18:Ah:237:SER:HA	18:Ah:320:ARG:HD2	1.88	0.54
18:Ah:360:PRO:HG3	18:Ah:374:ALA:HB2	1.88	0.54
17:Bc:10:GLY:O	17:Bc:14:ASN:ND2	2.40	0.54
17:Bg:36:TYR:OH	17:Bg:40:SER:O	2.23	0.54
17:Ca:159:TYR:HB3	17:Ca:162:ARG:HG3	1.89	0.54
17:Cc:139:LEU:HD12	17:Cc:170:VAL:HG22	1.88	0.54
18:Dd:237:SER:HA	18:Dd:320:ARG:HD2	1.89	0.54
17:Dg:382:SER:OG	17:Dg:415:MET:HE3	2.07	0.54
1:0A:89:SER:HA	1:0A:92:CYS:HB2	1.89	0.54
1:0D:342:VAL:HG22	1:0D:352:MET:HB2	1.87	0.54
7:0S:173:GLU:OE2	7:0S:190:LYS:NZ	2.41	0.54
7:0S:303:THR:HG22	7:0S:305:GLN:H	1.71	0.54
12:0X:92:GLN:HB2	12:0X:95:ALA:HB2	1.88	0.54
12:0Z:98:THR:N	19:0Z:801:ADP:O2A	2.40	0.54
13:1C:1525:ALA:HB3	13:1C:1618:ARG:HG3	1.89	0.54
17:2c:130:LEU:O	17:2c:162:ARG:NE	2.40	0.54
17:3c:275:SER:HG	17:3c:278:SER:HG	1.52	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:3g:7:ILE:HD13	17:3g:151:LEU:HD21	1.89	0.54
17:4a:346:PRO:HD2	18:4h:398:MET:HE3	1.89	0.54
17:4g:87:PRO:HG2	17:5g:278:SER:HB3	1.88	0.54
17:5a:207:LEU:HD13	17:5a:225:LEU:HB3	1.89	0.54
17:5c:207:LEU:HD21	17:5c:300:MET:HE3	1.89	0.54
17:5e:139:LEU:HD12	17:5e:170:VAL:HG22	1.89	0.54
18:6b:398:MET:HE1	17:6c:345:ILE:HG12	1.90	0.54
17:6g:417:ASP:O	17:6g:421:GLU:HG2	2.07	0.54
17:7c:375:GLN:HG3	17:7c:419:VAL:HG13	1.89	0.54
17:7e:109:GLY:HA2	17:7e:147:MET:HE2	1.89	0.54
17:8g:140:GLY:HA2	17:8g:184:ASN:HB2	1.88	0.54
17:9g:159:TYR:HB3	17:9g:162:ARG:HG3	1.90	0.54
18:9h:242:LEU:HD21	18:9h:252:ILE:HG12	1.89	0.54
17:Ag:130:LEU:O	17:Ag:162:ARG:NE	2.40	0.54
17:Bc:100:ASN:HB3	17:Bc:103:LYS:HB2	1.88	0.54
18:Dd:222:PRO:HD2	17:De:324:LYS:HG2	1.90	0.54
18:Dd:311:LYS:H	18:Dd:382:THR:HG22	1.72	0.54
17:De:145:SER:HB3	17:De:188:SER:OG	2.07	0.54
2:0G:121:ASP:OD1	2:0G:122:LEU:N	2.41	0.54
3:0J:303:GLY:HA3	18:Bd:430:LYS:HE2	1.89	0.54
5:0M:273:ASP:HB2	5:0M:284:GLU:HG2	1.88	0.54
10:0V:41:UNK:N	18:3d:338:LYS:HD3	2.21	0.54
12:0X:181:VAL:HG13	12:0X:186:GLU:HG2	1.88	0.54
12:0Z:139:TYR:HB3	12:0Z:151:LEU:HD13	1.90	0.54
12:1A:300:LEU:HA	12:1A:306:THR:HG21	1.90	0.54
13:1C:1383:GLU:HB2	13:1C:1385:LYS:HG2	1.89	0.54
14:1G:818:MET:HA	14:1G:855:LEU:HD21	1.90	0.54
17:3a:159:TYR:HB3	17:3a:162:ARG:HG3	1.90	0.54
17:3c:113:ILE:HG13	17:3c:117:LEU:HD23	1.89	0.54
17:4a:170:VAL:N	17:4a:202:LEU:O	2.40	0.54
17:4c:238:CYS:SG	17:4c:241:ARG:NH2	2.79	0.54
17:5a:252:LYS:NZ	21:5h:501:GTP:O1B	2.39	0.54
18:5d:79:ARG:NH1	18:5d:94:SER:OG	2.39	0.54
18:5d:217:LEU:HD21	18:5d:368:LEU:HD23	1.88	0.54
17:5e:326:VAL:CG1	17:5e:330:MET:HE1	2.37	0.54
18:5f:4:VAL:HG22	18:5f:133:GLN:HB2	1.88	0.54
17:5g:140:GLY:HA2	17:5g:184:ASN:HB2	1.89	0.54
17:6e:52:ASN:OD1	17:6e:62:ARG:NH2	2.39	0.54
18:7b:255:PHE:O	18:7b:259:LEU:HB2	2.07	0.54
17:7e:140:GLY:HA2	17:7e:184:ASN:HB2	1.89	0.54
18:9d:174:SER:HB3	18:9d:207:GLU:HB2	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:9e:10:GLY:O	17:9e:14:ASN:ND2	2.40	0.54
17:9g:229:ILE:O	17:9g:233:MET:HG3	2.07	0.54
18:Ab:336:LYS:NZ	18:Ab:348:PRO:O	2.40	0.54
17:Ac:272:PRO:HD3	17:Ac:364:SER:HA	1.89	0.54
17:Cg:159:TYR:HB3	17:Cg:162:ARG:HG3	1.89	0.54
18:Dd:319:TYR:HB3	18:Dd:323:VAL:HG21	1.88	0.54
1:0A:470:ALA:HB1	1:0A:497:CYS:HB2	1.89	0.54
1:0B:329:VAL:HA	1:0B:345:SER:HA	1.88	0.54
1:0C:160:ARG:NH2	13:1B:1156:ARG:O	2.41	0.54
3:0I:318:MET:SD	18:Bh:156:ARG:HA	2.48	0.54
3:0J:202:ASN:HB2	3:0J:205:GLU:HB3	1.90	0.54
8:0T:123:UNK:O	17:Dg:306:ARG:NH2	2.40	0.54
14:1D:1009:GLN:HG2	14:1D:1032:ARG:HE	1.71	0.54
14:1E:820:THR:OG1	14:1E:821:PRO:HD3	2.07	0.54
14:1G:605:GLU:HG2	14:1G:627:GLY:HA3	1.89	0.54
17:1a:54:ALA:HB3	17:1a:58:ARG:HB3	1.90	0.54
18:1d:336:LYS:NZ	18:1d:348:PRO:O	2.40	0.54
18:2d:272:TYR:HB3	18:2d:275:ILE:HD11	1.90	0.54
18:2h:316:CYS:HB3	18:2h:378:ILE:HG23	1.90	0.54
18:3d:251:ASP:H	18:3d:254:GLU:HG3	1.73	0.54
21:3f:501:GTP:O1B	17:3g:252:LYS:NZ	2.37	0.54
18:4f:169:PHE:HZ	18:4f:238:LEU:HD13	1.73	0.54
18:4h:11:GLN:N	21:4h:501:GTP:O1A	2.39	0.54
18:4h:16:VAL:HA	18:4h:228:ASN:HB3	1.89	0.54
17:7a:66:MET:HE2	17:7a:147:MET:HE3	1.89	0.54
17:8a:27:GLU:OE2	17:8a:318:ARG:NH2	2.40	0.54
17:8c:31:ASP:OD2	17:8c:33:THR:OG1	2.24	0.54
18:9h:3:GLU:HG2	18:9h:50:ASN:O	2.07	0.54
18:Bf:203:MET:HB3	18:Bf:303:VAL:HG21	1.89	0.54
18:Bh:242:LEU:HD21	18:Bh:252:ILE:HG12	1.88	0.54
17:Ce:81:TYR:HD1	17:Ce:84:ILE:HD13	1.73	0.54
17:Cg:60:VAL:HG21	17:Cg:86:ARG:CZ	2.37	0.54
18:Df:132:LEU:HB3	18:Df:164:LYS:HE2	1.89	0.54
1:0A:165:ARG:HH21	18:Bh:402:ARG:HH21	1.55	0.54
5:0N:180:PRO:O	5:0N:183:TRP:HD1	1.90	0.54
6:0P:197:THR:OG1	6:0P:198:ALA:N	2.41	0.54
7:0Q:566:ALA:HA	7:0Q:590:PRO:HB3	1.89	0.54
14:1F:818:MET:HA	14:1F:855:LEU:HD21	1.89	0.54
14:1G:1028:LEU:HB3	14:1G:1032:ARG:NH1	2.19	0.54
17:1a:86:ARG:HG2	17:1a:88:ASP:H	1.73	0.54
17:1g:102:ALA:HB2	17:1g:403:MET:HE3	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2d:21:TRP:CZ2	18:2d:65:CYS:HB2	2.43	0.54
18:4b:324:VAL:HG13	18:4b:327:ASP:H	1.72	0.54
18:4f:4:VAL:HG22	18:4f:133:GLN:HB2	1.89	0.54
17:5e:143:THR:OG1	17:5e:147:MET:HE2	2.08	0.54
18:5f:79:ARG:NH1	18:5f:94:SER:OG	2.39	0.54
18:7d:320:ARG:HB2	18:7d:374:ALA:HB3	1.89	0.54
17:7e:99:ASN:HA	17:7e:142:GLY:H	1.71	0.54
17:8e:130:LEU:O	17:8e:162:ARG:NE	2.41	0.54
18:9b:419:SER:O	18:9b:423:GLU:HG2	2.08	0.54
17:9c:381:VAL:HB	17:9c:415:MET:HE1	1.89	0.54
18:9d:26:LEU:HD22	18:9d:363:VAL:HG22	1.89	0.54
17:9g:397:TRP:CZ2	18:9h:256:GLN:HB3	2.42	0.54
18:Ad:399:TYR:O	18:Ad:402:ARG:NH1	2.38	0.54
17:Ba:375:GLN:NE2	17:Ba:423:GLN:OE1	2.28	0.54
18:Db:4:VAL:HG22	18:Db:133:GLN:HB2	1.89	0.54
18:Db:206:ASN:OD1	21:Db:501:GTP:N2	2.40	0.54
18:Dd:132:LEU:HB3	18:Dd:164:LYS:HE2	1.88	0.54
18:Df:21:TRP:CZ2	18:Df:65:CYS:HB2	2.42	0.54
18:Df:180:ALA:HB3	18:Df:183:GLU:HB2	1.90	0.54
1:0B:522:ASP:HB3	1:0B:525:MET:HB2	1.90	0.54
1:0B:525:MET:HA	1:0B:525:MET:HE3	1.90	0.54
7:0S:471:MET:HE3	7:0S:477:VAL:HG12	1.89	0.54
12:0Y:13:ARG:NH1	12:0Y:94:GLY:O	2.39	0.54
13:1B:1383:GLU:HB2	13:1B:1385:LYS:HG2	1.88	0.54
14:1D:443:LEU:HD21	14:1D:462:ARG:HE	1.71	0.54
17:1c:311:LEU:HD23	17:1c:342:VAL:HG21	1.88	0.54
17:2c:61:PRO:HG2	17:2c:84:ILE:HD12	1.89	0.54
18:4f:2:ARG:HB3	18:4f:242:LEU:HD12	1.89	0.54
17:5e:139:LEU:HG	17:5e:168:SER:HB3	1.89	0.54
18:5h:255:PHE:O	18:5h:259:LEU:HB2	2.07	0.54
17:6c:417:ASP:O	17:6c:421:GLU:HG2	2.08	0.54
18:6d:132:LEU:HB3	18:6d:164:LYS:HE2	1.90	0.54
17:6e:201:VAL:HG11	17:6e:377:MET:HE1	1.90	0.54
17:6g:49:VAL:O	17:6g:62:ARG:NH1	2.40	0.54
21:8d:501:GTP:O1B	17:8e:252:LYS:NZ	2.33	0.54
17:8e:134:GLN:HA	17:8e:165:LEU:O	2.07	0.54
17:8g:130:LEU:O	17:8g:162:ARG:NE	2.41	0.54
17:8g:139:LEU:HD12	17:8g:170:VAL:HG22	1.90	0.54
17:9c:282:ARG:NH1	17:9c:292:GLN:OE1	2.32	0.54
18:9d:9:ILE:HD11	18:9d:153:LEU:HD23	1.90	0.54
17:Ac:167:PHE:CE1	17:Ac:200:MET:HG3	2.42	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Af:4:VAL:HG22	18:Af:133:GLN:HB2	1.89	0.54
17:Bc:60:VAL:HG11	17:Bc:86:ARG:CZ	2.38	0.54
18:Bd:316:CYS:HB3	18:Bd:378:ILE:HG23	1.89	0.54
18:Cb:318:MET:HE1	18:Cb:378:ILE:HG22	1.90	0.54
17:Da:67:ASP:O	17:Da:92:PHE:HA	2.07	0.54
17:Da:145:SER:HB3	17:Da:188:SER:OG	2.07	0.54
18:Dh:9:ILE:HD13	18:Dh:150:GLY:HA2	1.88	0.54
7:0Q:545:HIS:NE2	7:0Q:569:ALA:O	2.34	0.54
12:0X:98:THR:N	19:0X:801:ADP:O2A	2.41	0.54
12:0Y:65:GLU:OE2	12:0Y:116:ARG:NH1	2.39	0.54
14:1F:1019:LEU:HD13	14:1F:1022:GLU:HG3	1.90	0.54
17:1e:100:ASN:HB3	17:1e:103:LYS:HB2	1.89	0.54
17:1e:165:LEU:HD11	17:1e:200:MET:HE2	1.89	0.54
18:2b:21:TRP:CZ2	18:2b:65:CYS:HB2	2.42	0.54
18:2d:55:GLU:O	18:3d:285:GLN:NE2	2.34	0.54
17:3c:205:GLU:HA	17:3c:208:TYR:CD2	2.42	0.54
17:5a:274:THR:HG22	17:5a:282:ARG:HD3	1.90	0.54
17:5a:282:ARG:NH1	17:5a:292:GLN:OE1	2.38	0.54
17:5e:320:ARG:NH1	17:5e:320:ARG:HA	2.22	0.54
18:5f:313:MET:HE1	18:5f:435:VAL:HG23	1.89	0.54
18:6b:237:SER:HA	18:6b:320:ARG:HD2	1.90	0.54
18:6b:407:TRP:HE1	17:6c:258:ILE:HB	1.72	0.54
18:6h:169:PHE:HZ	18:6h:238:LEU:HD13	1.73	0.54
18:7b:203:MET:SD	18:7b:267:PHE:HB3	2.47	0.54
17:7e:163:MET:HE3	17:7e:251:ARG:HA	1.89	0.54
17:9c:99:ASN:HA	17:9c:142:GLY:H	1.73	0.54
18:9d:227:LEU:O	18:9d:231:ILE:HG12	2.07	0.54
17:9e:54:ALA:HB3	17:9e:58:ARG:HB3	1.90	0.54
17:9e:201:VAL:HG11	17:9e:377:MET:HE1	1.90	0.54
18:9f:222:PRO:HD2	17:9g:324:LYS:HG2	1.89	0.54
17:9g:391:ARG:HD2	18:9h:346:TRP:CG	2.42	0.54
18:Cb:132:LEU:HB3	18:Cb:164:LYS:HE2	1.88	0.54
18:Cd:160:ASP:OD1	18:Cd:161:TYR:N	2.40	0.54
17:Ce:54:ALA:HB3	17:Ce:58:ARG:HB3	1.89	0.54
17:Dc:238:CYS:SG	17:Dc:318:ARG:NH1	2.81	0.54
18:Dd:180:ALA:HB3	18:Dd:183:GLU:HB2	1.89	0.54
17:De:10:GLY:O	17:De:14:ASN:ND2	2.41	0.54
18:Df:9:ILE:HD13	18:Df:150:GLY:HA2	1.89	0.54
1:0B:115:PRO:HB2	1:0B:118:TYR:HD1	1.73	0.54
1:0B:198:TYR:CD2	1:0B:202:MET:HE1	2.43	0.54
1:0C:394:ILE:O	1:0C:403:VAL:N	2.39	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0G:44:LEU:HD23	2:0G:135:ILE:HG23	1.90	0.54
3:0J:577:ARG:HG3	3:0J:578:PRO:HD3	1.90	0.54
5:0M:136:ALA:HB3	5:0M:140:LYS:HB2	1.90	0.54
5:0N:135:PRO:HA	5:0N:141:VAL:HG13	1.90	0.54
6:0P:69:ASP:OD1	17:1g:320:ARG:NH2	2.40	0.54
7:0S:168:THR:HB	7:0S:177:TRP:HE1	1.71	0.54
10:0V:68:UNK:HA	17:3e:306:ARG:HD3	1.89	0.54
12:0Y:262:GLN:OE1	18:9h:412:GLY:N	2.41	0.54
14:1F:654:VAL:O	14:1F:657:ARG:C	2.51	0.54
18:1b:259:LEU:HB3	18:1b:268:MET:HE1	1.89	0.54
17:1c:100:ASN:HB3	17:1c:103:LYS:HB2	1.89	0.54
18:1f:311:LYS:H	18:1f:382:THR:HG22	1.73	0.54
17:2c:215:LEU:HB3	17:2c:217:LEU:HD13	1.90	0.54
18:2d:9:ILE:HD13	18:2d:150:GLY:HA2	1.90	0.54
17:2e:52:ASN:OD1	17:2e:62:ARG:NH2	2.39	0.54
17:3e:272:PRO:HD3	17:3e:364:SER:HA	1.89	0.54
17:4a:375:GLN:HG3	17:4a:419:VAL:HG13	1.90	0.54
17:4c:100:ASN:HB3	17:4c:103:LYS:HB2	1.89	0.54
18:4d:180:ALA:HB3	18:4d:183:GLU:HB2	1.88	0.54
18:5b:203:MET:HE1	18:5b:384:ILE:HB	1.90	0.54
18:5d:2:ARG:HB3	18:5d:242:LEU:HD12	1.90	0.54
17:7a:6:HIS:HE1	17:7a:233:MET:HE1	1.73	0.54
18:8d:311:LYS:H	18:8d:382:THR:HG22	1.72	0.54
17:8e:86:ARG:HD3	17:8e:88:ASP:HB3	1.90	0.54
18:8h:399:TYR:O	18:8h:402:ARG:NH1	2.38	0.54
17:9a:272:PRO:HD3	17:9a:364:SER:HA	1.90	0.54
18:Ad:171:VAL:HG22	18:Ad:204:LEU:HB2	1.90	0.54
18:Af:101:ASN:HA	18:Af:144:GLY:H	1.73	0.54
18:Ah:336:LYS:NZ	18:Ah:348:PRO:O	2.41	0.54
17:Cg:6:HIS:HE1	17:Cg:233:MET:HE1	1.73	0.54
18:Ch:2:ARG:HB3	18:Ch:242:LEU:HD12	1.88	0.54
17:De:272:PRO:HD3	17:De:364:SER:HA	1.89	0.54
17:Dg:284:LEU:HD23	17:Dg:362:LYS:HB3	1.90	0.54
18:Dh:103:PHE:HD1	18:Dh:413:MET:HE1	1.73	0.54
1:0A:582:GLN:H	1:0A:597:GLY:HA2	1.71	0.54
1:0C:328:SER:HA	1:0C:600:ASN:HA	1.88	0.54
2:0G:81:TYR:CZ	2:0G:145:PHE:HB3	2.42	0.54
3:0J:442:SER:HA	3:0J:496:ALA:HA	1.89	0.54
4:0K:80:HIS:HA	4:0K:83:LEU:HD12	1.88	0.54
12:1A:137:VAL:HG21	12:1A:190:GLN:HE21	1.73	0.54
17:1c:27:GLU:OE2	17:1c:318:ARG:NH2	2.39	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2f:35:GLN:HA	18:2f:61:HIS:HD2	1.72	0.54
18:3d:1:MET:HE3	18:3d:2:ARG:HG3	1.90	0.54
18:3d:11:GLN:N	21:3d:501:GTP:O1A	2.40	0.54
17:3g:143:THR:O	17:3g:147:MET:HG2	2.07	0.54
17:4e:377:MET:HG3	17:4e:380:ARG:NH2	2.23	0.54
18:4f:9:ILE:HD11	18:4f:153:LEU:HD23	1.90	0.54
18:5b:268:MET:HG3	18:5b:378:ILE:HD11	1.89	0.54
18:5d:180:ALA:HB3	18:5d:183:GLU:HB2	1.89	0.54
17:6e:10:GLY:O	17:6e:14:ASN:ND2	2.41	0.54
18:7d:147:SER:HB2	18:7d:190:SER:HB3	1.90	0.54
17:8a:373:ALA:O	17:8a:376:GLU:HG2	2.08	0.54
17:8c:337:ASN:HB3	17:8c:340:TYR:HD2	1.72	0.54
18:8f:252:ILE:HD13	18:8f:255:PHE:CE2	2.43	0.54
17:8g:167:PHE:CZ	17:8g:233:MET:HG2	2.43	0.54
18:9b:11:GLN:N	21:9b:501:GTP:O1A	2.39	0.54
17:9c:73:MET:CE	17:9c:92:PHE:HB3	2.37	0.54
17:9e:263:LEU:HD11	17:9e:421:GLU:HG2	1.90	0.54
17:9e:274:THR:HG22	17:9e:282:ARG:HD3	1.90	0.54
17:9e:334:GLN:HE22	17:9e:347:ASN:HA	1.73	0.54
18:9f:133:GLN:O	18:9f:165:SER:OG	2.26	0.54
17:Ag:100:ASN:HB3	17:Ag:103:LYS:HB2	1.90	0.54
18:Ah:172:TYR:HH	18:Ah:191:THR:HG1	1.54	0.54
18:Bb:49:PHE:HB2	18:Bb:53:PHE:HB2	1.90	0.54
18:Bd:9:ILE:HD11	18:Bd:153:LEU:HD23	1.88	0.54
17:Ca:282:ARG:NH1	17:Ca:292:GLN:OE1	2.35	0.54
18:Cf:246:GLY:HA2	18:Cf:357:TYR:CE2	2.43	0.54
17:Cg:140:GLY:HA2	17:Cg:184:ASN:HB2	1.89	0.54
7:0S:545:HIS:NE2	7:0S:569:ALA:O	2.40	0.54
12:1A:94:GLY:N	19:1A:801:ADP:O3B	2.41	0.54
17:1a:52:ASN:OD1	17:1a:62:ARG:NH2	2.38	0.54
18:3h:267:PHE:HB2	18:3h:384:ILE:HD12	1.90	0.54
18:3h:301:MET:HE3	18:3h:301:MET:HA	1.90	0.54
17:5a:289:LEU:O	17:5a:293:MET:HG3	2.08	0.54
17:5e:184:ASN:OD1	17:5e:398:TYR:OH	2.19	0.54
18:5f:329:ASN:HA	18:5f:332:VAL:HG12	1.89	0.54
17:6c:200:MET:HE1	17:6c:266:PHE:HB2	1.90	0.54
17:6e:238:CYS:SG	17:6e:241:ARG:NH2	2.80	0.54
17:7a:417:ASP:O	17:7a:421:GLU:HG2	2.08	0.54
18:7f:21:TRP:CZ2	18:7f:65:CYS:HB2	2.43	0.54
17:8e:391:ARG:NH1	18:8f:438:GLU:O	2.41	0.54
18:9b:222:PRO:HD2	17:9c:324:LYS:HG2	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9d:1:MET:N	18:9d:3:GLU:OE2	2.38	0.54
18:Ad:285:GLN:NE2	18:Ad:290:GLU:HG3	2.23	0.54
18:Af:201:ALA:O	18:Af:267:PHE:HA	2.08	0.54
17:Ag:272:PRO:HD3	17:Ag:364:SER:HA	1.90	0.54
17:Bc:318:ARG:HB3	17:Bc:357:PRO:HA	1.90	0.54
17:Be:139:LEU:HD12	17:Be:170:VAL:HG22	1.90	0.54
18:Bh:141:VAL:HG13	18:Bh:190:SER:OG	2.08	0.54
17:Ce:289:LEU:O	17:Ce:293:MET:HG3	2.07	0.54
18:Cf:64:ARG:NH1	18:Cf:129:CYS:SG	2.81	0.54
17:Dc:202:LEU:HD13	17:Dc:229:ILE:HG12	1.89	0.54
18:Dh:9:ILE:HD11	18:Dh:153:LEU:HD23	1.90	0.54
1:0A:335:HIS:CD2	1:0A:336:PRO:HD2	2.43	0.53
1:0A:396:ASP:HB3	1:0A:399:LYS:HG2	1.89	0.53
1:0B:95:PHE:HA	1:0C:91:THR:HG22	1.90	0.53
1:0C:599:ASP:OD2	1:0C:603:ARG:NH2	2.36	0.53
12:0Y:114:ILE:HG12	12:0Y:239:LEU:HD22	1.89	0.53
12:0Z:84:ASN:HB2	12:0Z:304:CYS:HA	1.90	0.53
14:1D:597:GLY:O	14:1D:601:ARG:N	2.41	0.53
14:1G:563:MET:SD	14:1G:925:ARG:NH2	2.81	0.53
18:1h:217:LEU:HD21	18:1h:368:LEU:HD23	1.90	0.53
17:2c:253:LEU:HD11	17:2c:316:LEU:HD21	1.90	0.53
17:2e:286:VAL:HG22	17:2e:321:MET:HE3	1.90	0.53
18:2f:180:ALA:HB3	18:2f:183:GLU:HB2	1.89	0.53
18:2h:311:LYS:H	18:2h:382:THR:HG22	1.73	0.53
17:4c:375:GLN:HG3	17:4c:419:VAL:HG13	1.91	0.53
17:4e:205:GLU:HA	17:4e:208:TYR:CD2	2.43	0.53
17:7e:373:ALA:O	17:7e:376:GLU:HG2	2.09	0.53
18:8b:21:TRP:CZ2	18:8b:65:CYS:HB2	2.43	0.53
17:9e:145:SER:HB3	17:9e:188:SER:OG	2.08	0.53
17:Aa:318:ARG:HB3	17:Aa:357:PRO:HA	1.90	0.53
18:Ab:21:TRP:CZ2	18:Ab:65:CYS:HB2	2.42	0.53
17:Ae:139:LEU:HG	17:Ae:168:SER:HB3	1.89	0.53
17:Ae:215:LEU:HB3	17:Ae:217:LEU:HD13	1.88	0.53
17:Bc:317:PHE:CD2	17:Bc:321:MET:HE1	2.42	0.53
17:Ca:113:ILE:HG13	17:Ca:117:LEU:HD23	1.90	0.53
18:Cb:70:LEU:HD12	18:Cb:99:ALA:HB2	1.90	0.53
18:Db:222:PRO:HD2	17:Dc:324:LYS:HG2	1.90	0.53
18:Df:285:GLN:NE2	18:Df:290:GLU:HG3	2.23	0.53
1:0C:540:ASN:ND2	1:0C:581:VAL:O	2.40	0.53
3:0I:453:VAL:HG21	3:0I:516:ARG:HD3	1.89	0.53
3:0J:225:PHE:CE2	6:0P:166:LYS:HG3	2.43	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0N:292:ASN:OD1	17:Cc:320:ARG:HB2	2.08	0.53
7:0S:218:SER:OG	17:2c:80:PRO:O	2.23	0.53
12:0X:170:ASN:HD22	12:0X:170:ASN:C	2.15	0.53
12:0X:222:MET:SD	12:0X:223:ARG:N	2.81	0.53
12:1A:240:VAL:HG21	12:1A:296:LEU:HD11	1.90	0.53
13:1C:1152:ALA:O	13:1C:1156:ARG:NH1	2.40	0.53
14:1F:666:LEU:HD12	14:1F:669:VAL:HB	1.90	0.53
17:1c:139:LEU:HD12	17:1c:170:VAL:HG22	1.90	0.53
18:1h:9:ILE:HD13	18:1h:150:GLY:HA2	1.90	0.53
18:2f:36:MET:HE3	18:2f:61:HIS:CE1	2.44	0.53
18:3d:169:PHE:HZ	18:3d:238:LEU:HD13	1.74	0.53
17:4c:282:ARG:NH1	17:4c:292:GLN:OE1	2.38	0.53
18:4d:271:SER:OG	18:4d:377:MET:HE3	2.08	0.53
18:5b:104:ALA:HB2	18:5b:413:MET:HG3	1.90	0.53
18:5b:180:ALA:HB3	18:5b:183:GLU:HB2	1.91	0.53
18:7h:259:LEU:HD22	18:7h:268:MET:HE1	1.91	0.53
18:8b:2:ARG:HB3	18:8b:242:LEU:HD12	1.90	0.53
18:8d:90:GLU:OE1	18:8d:121:ARG:NE	2.41	0.53
17:8e:140:GLY:HA2	17:8e:184:ASN:HB2	1.90	0.53
17:8e:373:ALA:O	17:8e:376:GLU:HG2	2.08	0.53
18:9d:115:VAL:HB	18:9d:149:LEU:HD11	1.90	0.53
18:9d:274:PRO:HD3	18:9d:291:ILE:HD11	1.90	0.53
18:Ab:70:LEU:HD12	18:Ab:99:ALA:HB2	1.89	0.53
18:Ah:33:ASP:O	18:Ah:60:LYS:NZ	2.40	0.53
17:Be:20:PHE:HA	17:Be:230:SER:HB2	1.88	0.53
17:Ce:20:PHE:HA	17:Ce:230:SER:HB2	1.89	0.53
18:Ch:237:SER:HA	18:Ch:320:ARG:HD2	1.90	0.53
17:Da:186:THR:HA	17:Da:415:MET:CE	2.37	0.53
17:De:130:LEU:O	17:De:162:ARG:NE	2.41	0.53
17:Dg:7:ILE:HD13	17:Dg:151:LEU:HD21	1.90	0.53
1:0B:582:GLN:H	1:0B:597:GLY:HA2	1.72	0.53
1:0C:413:ILE:HD13	1:0C:429:SER:HB2	1.90	0.53
3:0J:150:GLN:OE1	17:Bc:409:THR:HG22	2.09	0.53
12:0Z:15:THR:HG22	12:0Z:313:TRP:HE1	1.73	0.53
13:1C:1525:ALA:N	13:1C:1620:ASP:OD1	2.40	0.53
14:1D:881:ARG:NH1	14:1D:884:GLU:OE1	2.36	0.53
14:1E:825:VAL:O	14:1E:827:SER:N	2.39	0.53
18:2f:217:LEU:HD21	18:2f:368:LEU:HD23	1.90	0.53
17:2g:139:LEU:HD12	17:2g:170:VAL:HG22	1.89	0.53
18:4h:136:LEU:HD22	18:4h:169:PHE:HE2	1.72	0.53
18:4h:317:LEU:O	18:4h:318:MET:HE2	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:5b:209:ILE:HG12	18:5b:302:MET:SD	2.48	0.53
17:6c:117:LEU:HB3	17:6c:121:ARG:HH12	1.74	0.53
18:6d:268:MET:CE	18:6d:378:ILE:HG12	2.37	0.53
18:6d:317:LEU:O	18:6d:318:MET:HE2	2.08	0.53
18:6h:267:PHE:HB2	18:6h:384:ILE:HD12	1.91	0.53
18:7f:206:ASN:OD1	21:7f:501:GTP:N2	2.40	0.53
18:7h:9:ILE:HD13	18:7h:150:GLY:HA2	1.90	0.53
17:9c:184:ASN:OD1	17:9c:398:TYR:OH	2.19	0.53
18:9d:210:TYR:CE1	17:9e:324:LYS:HB2	2.43	0.53
17:9g:299:MET:HE1	17:9g:367:PHE:CE2	2.44	0.53
18:Ad:210:TYR:CE1	17:Ae:324:LYS:HB2	2.43	0.53
17:Bc:172:SER:OG	17:Bc:175:VAL:O	2.25	0.53
17:Be:100:ASN:HB3	17:Be:103:LYS:HB2	1.89	0.53
18:Bh:188:VAL:HG22	18:Bh:425:LEU:HD22	1.91	0.53
18:Cb:9:ILE:HD13	18:Cb:150:GLY:HA2	1.88	0.53
17:Cg:145:SER:HB3	17:Cg:188:SER:OG	2.08	0.53
18:Ch:392:ASP:HB3	18:Ch:422:ARG:NH2	2.23	0.53
18:Db:237:SER:HA	18:Db:320:ARG:HD2	1.90	0.53
1:0A:578:GLU:OE1	1:0A:603:ARG:NH2	2.42	0.53
1:0B:341:LEU:HD22	1:0B:594:VAL:HG11	1.90	0.53
1:0D:202:MET:HE2	18:Ch:393:HIS:HB2	1.91	0.53
4:0L:200:TYR:CD1	4:0L:202:PRO:HD3	2.44	0.53
12:0Z:346:ASP:HB2	12:0Z:349:LEU:HB2	1.91	0.53
12:1A:122:PHE:HA	12:1A:125:VAL:HG22	1.90	0.53
14:1F:549:ARG:HG2	14:1F:553:LEU:HG	1.90	0.53
14:1G:567:ASP:OD1	14:1G:568:ARG:N	2.42	0.53
18:1f:222:PRO:HD2	17:1g:324:LYS:HG2	1.90	0.53
18:2b:169:PHE:HZ	18:2b:238:LEU:HD13	1.74	0.53
18:2b:223:THR:OG1	17:2c:245:GLN:OE1	2.26	0.53
17:2e:184:ASN:OD1	17:2e:398:TYR:OH	2.24	0.53
18:3b:259:LEU:HD22	18:3b:268:MET:HE1	1.90	0.53
18:3f:250:VAL:HG21	18:3f:318:MET:HE1	1.88	0.53
18:4d:70:LEU:HD12	18:4d:99:ALA:HB2	1.89	0.53
17:4e:113:ILE:HG13	17:4e:117:LEU:HD23	1.90	0.53
17:4g:208:TYR:CD1	18:4h:326:LYS:HE3	2.43	0.53
17:5c:86:ARG:NE	17:6c:281:TYR:HB3	2.23	0.53
17:7a:273:LEU:H	17:7a:292:GLN:HE22	1.56	0.53
17:7e:198:GLU:HG3	17:7e:266:PHE:CE2	2.42	0.53
17:7e:311:LEU:HD23	17:7e:342:VAL:HG21	1.90	0.53
17:7g:86:ARG:HG2	17:7g:88:ASP:H	1.74	0.53
18:8b:301:MET:HA	18:8b:301:MET:HE3	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8c:246:LEU:H	17:8c:353:VAL:HB	1.73	0.53
17:9g:66:MET:HE1	17:9g:151:LEU:HD22	1.90	0.53
18:9h:133:GLN:O	18:9h:165:SER:OG	2.25	0.53
18:Ab:30:ILE:HA	18:Ab:36:MET:HB3	1.90	0.53
18:Ab:132:LEU:HB3	18:Ab:164:LYS:HE2	1.89	0.53
18:Af:399:TYR:O	18:Af:402:ARG:NH1	2.33	0.53
18:Ah:70:LEU:HD12	18:Ah:99:ALA:HB2	1.90	0.53
17:Ba:46:ARG:NH2	18:Bh:76:ASP:OD2	2.40	0.53
17:Ba:134:GLN:HA	17:Ba:165:LEU:O	2.08	0.53
17:Ba:324:LYS:HB2	18:Bh:210:TYR:CE1	2.43	0.53
17:Bg:20:PHE:HA	17:Bg:230:SER:HB2	1.90	0.53
18:Cd:180:ALA:HB3	18:Cd:183:GLU:HB2	1.89	0.53
17:Da:173:PRO:HB3	17:Da:380:ARG:CZ	2.39	0.53
17:Dc:318:ARG:HH21	17:Dc:356:ILE:HG22	1.74	0.53
17:Dg:145:SER:HB3	17:Dg:188:SER:OG	2.07	0.53
18:Dh:101:ASN:HA	18:Dh:144:GLY:H	1.74	0.53
1:0A:160:ARG:HG2	1:0A:164:LYS:HZ3	1.74	0.53
1:0A:377:HIS:ND1	1:0A:378:PRO:O	2.40	0.53
5:0N:222:LEU:HD22	5:0N:232:ILE:HG13	1.90	0.53
12:0Y:331:ARG:HD3	18:9h:402:ARG:NH2	2.22	0.53
13:1B:1610:GLU:HG3	13:1B:1736:ARG:HB2	1.91	0.53
14:1E:597:GLY:O	14:1E:601:ARG:N	2.41	0.53
18:1b:311:LYS:H	18:1b:382:THR:HG22	1.73	0.53
17:2a:373:ALA:O	17:2a:376:GLU:HG2	2.08	0.53
18:2f:76:ASP:OD2	17:2g:46:ARG:NH2	2.41	0.53
18:3h:169:PHE:HZ	18:3h:238:LEU:HD13	1.73	0.53
17:5e:86:ARG:NH1	17:6e:281:TYR:O	2.42	0.53
17:5e:117:LEU:HB3	17:5e:121:ARG:HH12	1.74	0.53
18:5h:265:ILE:HG22	18:5h:380:ASN:HD21	1.73	0.53
18:6b:9:ILE:HD13	18:6b:150:GLY:HA2	1.91	0.53
18:6b:11:GLN:N	21:6b:501:GTP:O1A	2.38	0.53
18:9b:30:ILE:HA	18:9b:36:MET:HB3	1.90	0.53
17:9c:373:ALA:O	17:9c:376:GLU:HG2	2.08	0.53
18:Ab:242:LEU:HD21	18:Ab:252:ILE:HG12	1.90	0.53
17:Ag:330:MET:HE2	17:Ag:349:VAL:HG13	1.90	0.53
17:Bg:113:ILE:HG13	17:Bg:117:LEU:HD23	1.91	0.53
17:Cc:100:ASN:HB3	17:Cc:103:LYS:HB2	1.91	0.53
18:Cd:4:VAL:HG22	18:Cd:133:GLN:HB2	1.90	0.53
18:Cd:169:PHE:HZ	18:Cd:238:LEU:HD13	1.72	0.53
18:Ch:137:VAL:HG21	18:Ch:154:LEU:HD21	1.90	0.53
17:Da:311:LEU:HD23	17:Da:342:VAL:HG21	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:De:328:GLU:O	17:De:332:ASN:ND2	2.39	0.53
1:0A:132:ARG:HG3	1:0A:133:ARG:HG3	1.90	0.53
2:0E:70:ASN:ND2	2:0E:72:PHE:HB2	2.23	0.53
5:0N:232:ILE:O	5:0N:236:MET:HB2	2.09	0.53
5:0N:322:LEU:O	5:0N:386:ARG:NH2	2.42	0.53
13:1B:1692:THR:OG1	18:Bf:196:GLU:O	2.17	0.53
17:1a:198:GLU:HG3	17:1a:266:PHE:CE2	2.40	0.53
18:1b:11:GLN:N	21:1b:501:GTP:O1A	2.40	0.53
18:1d:133:GLN:O	18:1d:165:SER:OG	2.25	0.53
18:2d:222:PRO:HD2	17:2e:324:LYS:HG2	1.91	0.53
17:3g:218:THR:O	18:3h:326:LYS:NZ	2.34	0.53
17:4a:200:MET:HE1	17:4a:268:VAL:CG1	2.39	0.53
18:4b:255:PHE:O	18:4b:259:LEU:HB2	2.08	0.53
17:5c:318:ARG:HB3	17:5c:357:PRO:HA	1.89	0.53
17:5g:233:MET:O	17:5g:236:ILE:HG22	2.09	0.53
17:6a:46:ARG:NH2	18:6h:76:ASP:OD2	2.41	0.53
18:6d:76:ASP:OD2	17:6e:46:ARG:NH2	2.41	0.53
18:6d:313:MET:HE3	18:6d:382:THR:HB	1.91	0.53
17:7a:373:ALA:O	17:7a:376:GLU:HG2	2.09	0.53
18:7f:70:LEU:HD12	18:7f:99:ALA:HB2	1.90	0.53
17:8a:198:GLU:HG3	17:8a:266:PHE:CE2	2.43	0.53
17:8c:10:GLY:O	17:8c:14:ASN:ND2	2.41	0.53
18:8d:132:LEU:HB3	18:8d:164:LYS:HE2	1.90	0.53
18:8h:169:PHE:HZ	18:8h:238:LEU:HD13	1.74	0.53
18:9f:145:THR:N	21:9f:501:GTP:O2G	2.33	0.53
17:Aa:130:LEU:O	17:Aa:162:ARG:NE	2.41	0.53
17:Ag:318:ARG:HB3	17:Ag:357:PRO:HA	1.91	0.53
18:Bb:250:VAL:HG22	18:Bb:352:LYS:HE3	1.91	0.53
17:Be:130:LEU:O	17:Be:162:ARG:NE	2.42	0.53
18:Cb:36:MET:HG2	18:Cb:61:HIS:CE1	2.44	0.53
18:Cd:132:LEU:HB3	18:Cd:164:LYS:HE2	1.90	0.53
17:Ce:274:THR:HG22	17:Ce:282:ARG:HD3	1.90	0.53
18:Df:250:VAL:HG22	18:Df:352:LYS:HE3	1.90	0.53
17:Dg:229:ILE:O	17:Dg:233:MET:HG3	2.08	0.53
12:0X:233:VAL:HG12	12:0X:234:LEU:N	2.23	0.53
13:1B:1142:GLU:HG3	13:1B:1144:THR:H	1.73	0.53
13:1C:1701:LEU:HD22	17:Ba:396:HIS:NE2	2.23	0.53
17:1c:113:ILE:HG13	17:1c:117:LEU:HD23	1.91	0.53
17:1g:391:ARG:HG3	18:1h:346:TRP:HB3	1.90	0.53
17:2e:6:HIS:HE1	17:2e:233:MET:HE1	1.74	0.53
18:2h:101:ASN:ND2	21:2h:501:GTP:O1G	2.42	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2h:200:VAL:HG23	18:2h:256:GLN:HG3	1.90	0.53
18:3d:9:ILE:HD11	18:3d:153:LEU:HD23	1.91	0.53
18:3f:21:TRP:CZ2	18:3f:65:CYS:HB2	2.43	0.53
17:3g:67:ASP:HA	17:3g:147:MET:HE1	1.90	0.53
17:4a:159:TYR:HB3	17:4a:162:ARG:HG3	1.89	0.53
17:4c:198:GLU:HG3	17:4c:266:PHE:CE2	2.39	0.53
18:5f:313:MET:HE3	18:5f:382:THR:HB	1.90	0.53
17:6a:139:LEU:HG	17:6a:168:SER:HB3	1.90	0.53
18:6b:88:HIS:HB3	18:6b:91:GLN:HB2	1.91	0.53
17:6c:178:THR:OG1	17:6c:181:GLU:HG3	2.08	0.53
17:6g:140:GLY:HA2	17:6g:184:ASN:HB2	1.91	0.53
18:7f:174:SER:HB3	18:7f:207:GLU:HB2	1.90	0.53
17:8a:46:ARG:NH2	18:8h:76:ASP:OD2	2.41	0.53
18:8f:200:VAL:HG23	18:8f:256:GLN:HG3	1.90	0.53
17:9e:177:ASP:O	18:9f:352:LYS:HA	2.08	0.53
18:Ad:180:ALA:HB3	18:Ad:183:GLU:HB2	1.91	0.53
17:Ae:282:ARG:NH1	17:Ae:292:GLN:OE1	2.35	0.53
17:Bg:174:LYS:NZ	18:Bh:333:ALA:HB1	2.24	0.53
17:Ca:54:ALA:HB3	17:Ca:58:ARG:HB3	1.91	0.53
17:Cc:98:GLY:HA2	18:Cd:254:GLU:HG2	1.91	0.53
18:Cf:70:LEU:HD12	18:Cf:99:ALA:HB2	1.91	0.53
18:Dh:88:HIS:HB3	18:Dh:91:GLN:HB2	1.90	0.53
3:0I:146:LYS:HD3	17:Bg:409:THR:OG1	2.09	0.53
5:0N:142:HIS:HD1	5:0N:144:MET:HB2	1.74	0.53
5:0N:337:MET:HG3	5:0N:383:ILE:HG12	1.89	0.53
5:0N:743:HIS:CE1	18:Bb:54:SER:HB2	2.44	0.53
7:0S:365:VAL:HG22	7:0S:405:CYS:HB2	1.90	0.53
11:0W:39:UNK:HA	18:Cd:415:GLU:HG3	1.90	0.53
12:1A:184:GLU:O	12:1A:188:LEU:HG	2.09	0.53
13:1C:1112:GLU:HG3	13:1C:1194:PRO:HG3	1.90	0.53
13:1C:1518:ASN:HD21	13:1C:1588:LEU:HB3	1.72	0.53
13:1C:1533:LEU:HD21	13:1C:1611:GLY:HA3	1.90	0.53
14:1D:827:SER:O	14:1D:830:ARG:N	2.41	0.53
14:1G:937:LEU:HD13	14:1G:968:GLU:HG3	1.91	0.53
17:2c:99:ASN:HA	17:2c:142:GLY:H	1.74	0.53
17:3c:130:LEU:O	17:3c:162:ARG:NE	2.40	0.53
17:3c:186:THR:HA	17:3c:415:MET:CE	2.39	0.53
18:4d:21:TRP:CZ2	18:4d:65:CYS:HB2	2.44	0.53
18:4f:9:ILE:HD13	18:4f:150:GLY:HA2	1.91	0.53
18:4f:101:ASN:HA	18:4f:144:GLY:H	1.74	0.53
17:6e:274:THR:HG22	17:6e:282:ARG:HD3	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6f:88:HIS:HB3	18:6f:91:GLN:HB2	1.91	0.53
18:6h:241:SER:OG	18:6h:250:VAL:O	2.15	0.53
17:7a:350:LYS:NZ	17:7a:351:SER:O	2.41	0.53
18:7d:103:PHE:HD1	18:7d:413:MET:HE1	1.74	0.53
18:7h:259:LEU:HD13	18:7h:268:MET:HE2	1.90	0.53
18:7h:413:MET:HG2	18:7h:414:GLU:N	2.24	0.53
17:Bc:218:THR:O	18:Bd:326:LYS:NZ	2.28	0.53
17:Bc:406:MET:HA	17:Bc:409:THR:HG23	1.91	0.53
18:Bd:188:VAL:HG13	18:Bd:425:LEU:HD13	1.90	0.53
17:Bg:100:ASN:HB3	17:Bg:103:LYS:HB2	1.91	0.53
17:Cc:73:MET:HA	17:Cc:76:VAL:HB	1.90	0.53
17:Da:52:ASN:OD1	17:Da:62:ARG:NH2	2.42	0.53
17:Da:100:ASN:HB3	17:Da:103:LYS:HB2	1.91	0.53
18:Dd:70:LEU:HD21	18:Dd:149:LEU:HD22	1.91	0.53
1:0C:457:ASP:HB2	1:0C:499:GLY:HA2	1.89	0.53
5:0M:166:PRO:HA	17:Ce:227:HIS:CE1	2.44	0.53
7:0Q:584:ALA:HB3	7:0Q:615:TRP:HZ3	1.73	0.53
13:1B:1184:PRO:HG2	13:1B:1262:ARG:HH11	1.72	0.53
18:2f:234:VAL:HG21	18:2f:302:MET:HE1	1.90	0.53
17:2g:113:ILE:HG13	17:2g:117:LEU:HD23	1.90	0.53
18:3f:317:LEU:O	18:3f:318:MET:HE2	2.09	0.53
17:6g:215:LEU:HB3	17:6g:217:LEU:HD13	1.91	0.53
18:7b:70:LEU:HD12	18:7b:99:ALA:HB2	1.91	0.53
18:8d:70:LEU:HD12	18:8d:99:ALA:HB2	1.91	0.53
18:9b:70:LEU:HD12	18:9b:99:ALA:HB2	1.91	0.53
17:9c:113:ILE:HG13	17:9c:117:LEU:HD23	1.90	0.53
18:9f:11:GLN:N	21:9f:501:GTP:O1A	2.39	0.53
17:Ae:208:TYR:CE1	17:Ae:225:LEU:HD11	2.44	0.53
18:Af:16:VAL:HA	18:Af:228:ASN:HB3	1.90	0.53
17:Ag:294:TRP:CE2	17:Ag:333:VAL:HG11	2.44	0.53
17:Bc:260:PHE:HB2	17:Bc:263:LEU:HD13	1.90	0.53
17:Ca:330:MET:HA	17:Ca:330:MET:HE3	1.91	0.53
18:Cb:180:ALA:HB3	18:Cb:183:GLU:HB2	1.90	0.53
18:Dh:132:LEU:HB3	18:Dh:164:LYS:HE2	1.89	0.53
1:0B:414:TRP:HZ3	2:0F:46:ARG:HG3	1.74	0.53
1:0C:207:MET:HE1	18:Cd:422:ARG:HG3	1.90	0.53
3:0J:362:ILE:HA	3:0J:366:GLU:HB2	1.91	0.53
5:0N:249:PHE:O	5:0N:253:ILE:HG12	2.08	0.53
6:0P:10:PHE:HD1	7:0Q:181:PRO:HB2	1.73	0.53
7:0Q:329:LEU:HA	7:0Q:346:SER:HA	1.91	0.53
7:0S:477:VAL:HG13	7:0S:509:MET:HE1	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0S:482:GLU:H	7:0S:505:MET:HB2	1.73	0.53
7:0S:512:SER:HB3	7:0S:517:SER:HB2	1.90	0.53
12:1A:80:MET:HG2	12:1A:124:GLU:HB3	1.91	0.53
13:1C:1249:LEU:HD11	13:1C:1255:CYS:HB2	1.89	0.53
13:1C:1314:ALA:HB3	13:1C:1317:GLU:HB2	1.91	0.53
13:1C:1690:MET:HE2	13:1C:1705:PHE:CD1	2.42	0.53
17:1e:139:LEU:HD12	17:1e:170:VAL:HG22	1.90	0.53
17:1e:173:PRO:HB3	17:1e:380:ARG:CZ	2.39	0.53
17:1e:174:LYS:HB3	17:1e:205:GLU:OE2	2.08	0.53
17:2c:326:VAL:CG1	17:2c:330:MET:HE1	2.39	0.53
18:2d:132:LEU:HB3	18:2d:164:LYS:HE2	1.91	0.53
18:2d:316:CYS:HB3	18:2d:378:ILE:HG23	1.91	0.53
18:2f:132:LEU:HB3	18:2f:164:LYS:HE2	1.90	0.53
17:2g:54:ALA:HB3	17:2g:58:ARG:HB3	1.91	0.53
17:3a:100:ASN:HB3	17:3a:103:LYS:HB2	1.91	0.53
17:3a:113:ILE:HG13	17:3a:117:LEU:HD23	1.91	0.53
17:3a:215:LEU:HB3	17:3a:217:LEU:HD13	1.91	0.53
18:4b:169:PHE:HZ	18:4b:238:LEU:HD13	1.73	0.53
18:4f:324:VAL:HG13	18:4f:327:ASP:H	1.74	0.53
17:5a:140:GLY:HA2	17:5a:184:ASN:HB2	1.91	0.53
18:5b:255:PHE:O	18:5b:259:LEU:HB2	2.09	0.53
17:7a:36:TYR:OH	17:7a:40:SER:N	2.39	0.53
17:8a:10:GLY:O	17:8a:14:ASN:ND2	2.42	0.53
17:8g:73:MET:SD	17:8g:92:PHE:HB3	2.48	0.53
17:9c:140:GLY:HA2	17:9c:184:ASN:HB2	1.90	0.53
18:9d:144:GLY:N	21:9d:501:GTP:O2G	2.42	0.53
18:9f:160:ASP:OD1	18:9f:161:TYR:N	2.39	0.53
17:Ae:113:ILE:HG13	17:Ae:117:LEU:HD23	1.90	0.53
17:Ae:278:SER:HA	17:Ae:281:TYR:HB2	1.91	0.53
17:Ca:20:PHE:HA	17:Ca:230:SER:HB2	1.91	0.53
17:Ce:202:LEU:HD13	17:Ce:229:ILE:HG12	1.89	0.53
18:Dd:64:ARG:NH1	18:Dd:129:CYS:SG	2.82	0.53
1:0B:323:LYS:H	1:0B:601:THR:HG23	1.72	0.52
8:0T:55:UNK:O	18:Dd:308:ARG:NH1	2.42	0.52
12:0X:145:GLU:OE1	12:0X:290:THR:OG1	2.27	0.52
14:1D:439:TYR:CE1	14:1D:443:LEU:HD22	2.44	0.52
14:1D:817:ALA:HB1	14:1D:855:LEU:HD13	1.91	0.52
17:1c:7:ILE:HD13	17:1c:151:LEU:HD21	1.91	0.52
18:2d:319:TYR:HB3	18:2d:323:VAL:HG21	1.90	0.52
21:2f:501:GTP:O1B	17:2g:252:LYS:NZ	2.39	0.52
17:4e:10:GLY:O	17:4e:14:ASN:ND2	2.41	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:5h:319:TYR:HB3	18:5h:323:VAL:HG21	1.90	0.52
17:7a:12:CYS:HB2	20:7a:501:GDP:C8	2.44	0.52
17:7e:12:CYS:HB2	20:7e:501:GDP:C8	2.44	0.52
18:8h:11:GLN:N	21:8h:501:GTP:O1A	2.41	0.52
18:9f:76:ASP:OD2	17:9g:46:ARG:NH2	2.41	0.52
17:Ac:215:LEU:HB3	17:Ac:217:LEU:HD13	1.91	0.52
17:Ag:99:ASN:HA	17:Ag:142:GLY:H	1.73	0.52
17:Be:215:LEU:HB3	17:Be:217:LEU:HD13	1.91	0.52
18:Bf:267:PHE:HB2	18:Bf:384:ILE:HD12	1.92	0.52
17:Dg:238:CYS:SG	17:Dg:318:ARG:NH1	2.82	0.52
18:Dh:324:VAL:HG13	18:Dh:327:ASP:H	1.74	0.52
1:0A:435:ARG:NH2	17:Dg:417:ASP:OD2	2.42	0.52
1:0B:377:HIS:ND1	1:0B:378:PRO:O	2.41	0.52
1:0C:582:GLN:N	1:0C:596:CYS:O	2.42	0.52
7:0S:458:MET:HB3	7:0S:489:TRP:CZ3	2.44	0.52
12:0Z:118:ILE:HD11	12:0Z:188:LEU:HD12	1.90	0.52
14:1E:459:ALA:O	14:1E:462:ARG:HG2	2.10	0.52
14:1E:881:ARG:NH1	14:1E:884:GLU:OE1	2.37	0.52
18:1f:70:LEU:HD12	18:1f:99:ALA:HB2	1.91	0.52
18:1f:160:ASP:OD1	18:1f:161:TYR:N	2.42	0.52
18:2d:311:LYS:H	18:2d:382:THR:HG22	1.74	0.52
17:2e:10:GLY:O	17:2e:14:ASN:ND2	2.42	0.52
17:3c:67:ASP:O	17:3c:92:PHE:HA	2.10	0.52
18:3d:21:TRP:CZ2	18:3d:65:CYS:HB2	2.44	0.52
18:4d:33:ASP:HA	18:4d:85:GLN:HE21	1.74	0.52
17:4g:73:MET:HE2	17:4g:92:PHE:HD2	1.74	0.52
17:5e:274:THR:HG22	17:5e:282:ARG:HD3	1.89	0.52
17:5g:373:ALA:O	17:5g:376:GLU:HG2	2.09	0.52
17:6a:163:MET:HE3	17:6a:251:ARG:HG3	1.90	0.52
17:6c:12:CYS:HB2	20:6c:501:GDP:C8	2.44	0.52
17:6g:320:ARG:NH2	17:6g:321:MET:O	2.42	0.52
18:6h:88:HIS:HB3	18:6h:91:GLN:HB2	1.92	0.52
18:7b:259:LEU:HD22	18:7b:268:MET:HE1	1.90	0.52
17:7g:27:GLU:OE2	17:7g:318:ARG:NH2	2.42	0.52
17:8g:186:THR:HG23	17:8g:415:MET:HE3	1.91	0.52
17:8g:267:MET:HG3	17:8g:299:MET:HE2	1.91	0.52
18:8h:21:TRP:CZ2	18:8h:65:CYS:HB2	2.44	0.52
18:8h:147:SER:HB2	18:8h:190:SER:HB3	1.90	0.52
17:9a:173:PRO:HA	17:9a:380:ARG:NE	2.24	0.52
17:9a:344:TRP:CD2	18:9h:401:LYS:HE3	2.44	0.52
17:9e:290:THR:HA	17:9e:293:MET:HE3	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:9g:73:MET:CE	17:9g:92:PHE:HB3	2.39	0.52
17:9g:253:LEU:HD11	17:9g:316:LEU:HD21	1.91	0.52
18:9h:98:ASP:OD1	18:9h:99:ALA:N	2.42	0.52
17:Ac:178:THR:HG22	18:Ad:352:LYS:HZ3	1.74	0.52
18:Ad:102:ASN:HB3	18:Ad:105:ARG:HB2	1.90	0.52
17:Ba:184:ASN:OD1	17:Ba:398:TYR:OH	2.19	0.52
17:Ba:330:MET:HE2	17:Ba:349:VAL:HG22	1.90	0.52
17:Bc:113:ILE:HG13	17:Bc:117:LEU:HD23	1.92	0.52
17:Bg:233:MET:O	17:Bg:236:ILE:HG22	2.08	0.52
17:Cc:10:GLY:O	17:Cc:14:ASN:ND2	2.43	0.52
18:Cf:21:TRP:CZ2	18:Cf:65:CYS:HB2	2.45	0.52
17:Dc:201:VAL:HG21	17:Dc:377:MET:HE1	1.91	0.52
17:Dg:159:TYR:HB3	17:Dg:162:ARG:HG3	1.91	0.52
1:0A:334:LEU:HD12	1:0A:341:LEU:HD13	1.91	0.52
1:0B:184:TYR:CZ	1:0C:184:TYR:HB3	2.44	0.52
3:0I:225:PHE:CE1	6:0O:166:LYS:HG3	2.40	0.52
4:0K:132:LYS:HG2	4:0K:135:ARG:HH21	1.75	0.52
5:0N:42:THR:HB	5:0N:49:LEU:HD22	1.90	0.52
7:0Q:477:VAL:HG13	7:0Q:509:MET:HE1	1.91	0.52
12:0Z:106:THR:O	12:0Z:111:ARG:NH1	2.42	0.52
13:1C:1234:ILE:HD11	13:1C:1269:PHE:HB3	1.90	0.52
13:1C:1769:TRP:HB2	14:1D:522:HIS:NE2	2.25	0.52
18:1h:79:ARG:HG3	18:1h:92:LEU:HD22	1.91	0.52
17:2e:159:TYR:HB3	17:2e:162:ARG:HG3	1.91	0.52
17:3c:30:ILE:HD11	17:3c:47:ILE:HD11	1.91	0.52
17:3c:391:ARG:NH1	18:3d:438:GLU:O	2.42	0.52
18:3f:192:HIS:ND1	18:3f:421:ALA:HA	2.25	0.52
18:4d:70:LEU:HA	18:4d:95:GLY:HA3	1.92	0.52
18:5b:33:ASP:HA	18:5b:85:GLN:HE21	1.75	0.52
17:5c:73:MET:SD	17:5c:92:PHE:HB3	2.49	0.52
17:5c:373:ALA:O	17:5c:376:GLU:HG2	2.09	0.52
18:5d:145:THR:N	21:5d:501:GTP:O2G	2.31	0.52
18:5d:324:VAL:HG13	18:5d:327:ASP:H	1.74	0.52
18:5f:311:LYS:H	18:5f:382:THR:HG22	1.74	0.52
18:7f:88:HIS:HB3	18:7f:91:GLN:HB2	1.91	0.52
18:7f:169:PHE:HZ	18:7f:238:LEU:HD13	1.75	0.52
18:7h:413:MET:HG2	18:7h:414:GLU:H	1.74	0.52
18:8b:12:ALA:HB3	18:8b:140:ALA:HB2	1.92	0.52
17:8e:200:MET:HE1	17:8e:266:PHE:HB2	1.90	0.52
17:9a:372:THR:HA	17:9a:422:TYR:HD2	1.74	0.52
17:9c:145:SER:HB3	17:9c:188:SER:OG	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Aa:167:PHE:CE1	17:Aa:233:MET:HG2	2.44	0.52
17:Ac:210:ILE:HG21	17:Ac:300:MET:HE1	1.92	0.52
17:Ae:10:GLY:O	17:Ae:14:ASN:ND2	2.43	0.52
18:Ah:12:ALA:HB3	18:Ah:140:ALA:HB2	1.91	0.52
18:Ah:16:VAL:HA	18:Ah:228:ASN:HB3	1.90	0.52
18:Bb:132:LEU:HB3	18:Bb:164:LYS:HE2	1.90	0.52
17:Bc:233:MET:O	17:Bc:236:ILE:HG22	2.10	0.52
18:Bd:9:ILE:HD13	18:Bd:150:GLY:HA2	1.91	0.52
18:Bd:237:SER:HA	18:Bd:320:ARG:HD2	1.92	0.52
17:Cc:145:SER:HB3	17:Cc:188:SER:OG	2.09	0.52
17:Ce:159:TYR:HB3	17:Ce:162:ARG:HG3	1.91	0.52
18:Ch:215:ARG:NH2	18:Ch:300:SER:HA	2.24	0.52
1:0B:370:TRP:NE1	2:0F:44:LEU:O	2.42	0.52
1:0D:398:GLU:O	1:0D:400:GLN:NE2	2.42	0.52
3:0I:563:ALA:O	3:0I:567:ARG:HG3	2.07	0.52
3:0J:421:HIS:ND1	3:0J:522:SER:HB2	2.24	0.52
5:0M:367:LEU:O	5:0M:372:MET:HE2	2.10	0.52
5:0N:193:VAL:HG11	5:0N:217:LEU:HD11	1.90	0.52
7:0Q:6:ARG:NH2	7:0Q:356:THR:O	2.43	0.52
7:0S:529:MET:HE2	7:0S:529:MET:HA	1.92	0.52
8:0T:95:UNK:O	18:Df:308:ARG:NH1	2.42	0.52
12:0Y:9:PHE:CE2	12:0Y:57:GLY:HA3	2.45	0.52
12:0Z:233:VAL:HG12	12:0Z:234:LEU:N	2.24	0.52
13:1C:1738:ARG:NH1	13:1C:1752:PRO:HG3	2.24	0.52
14:1D:459:ALA:O	14:1D:462:ARG:HG2	2.10	0.52
14:1E:419:THR:HG22	14:1E:421:VAL:H	1.74	0.52
14:1G:864:GLU:HA	14:1G:867:ARG:HD2	1.91	0.52
14:1G:1048:ALA:HA	14:1G:1051:ARG:NH1	2.24	0.52
18:1b:222:PRO:HD2	17:1c:324:LYS:HG2	1.90	0.52
18:1b:301:MET:HA	18:1b:301:MET:HE3	1.92	0.52
17:2c:326:VAL:HG12	17:2c:330:MET:HE1	1.90	0.52
17:3g:140:GLY:HA2	17:3g:184:ASN:HB2	1.91	0.52
18:3h:9:ILE:HD13	18:3h:150:GLY:HA2	1.90	0.52
18:4d:399:TYR:O	18:4d:402:ARG:NH1	2.38	0.52
17:4g:145:SER:HB3	17:4g:188:SER:OG	2.10	0.52
18:5f:317:LEU:O	18:5f:318:MET:HE2	2.10	0.52
17:6a:31:ASP:OD2	17:6a:33:THR:OG1	2.26	0.52
17:6e:7:ILE:HB	17:6e:135:VAL:HG22	1.91	0.52
18:6f:101:ASN:HA	18:6f:144:GLY:H	1.74	0.52
17:7g:7:ILE:HD12	17:7g:135:VAL:HG22	1.91	0.52
17:8g:138:SER:OG	20:8g:501:GDP:O2A	2.27	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:9a:49:VAL:O	17:9a:62:ARG:NH1	2.42	0.52
17:Ag:294:TRP:HZ2	17:Ag:330:MET:HE3	1.74	0.52
18:Bb:293:ASN:O	18:Bb:297:GLU:HG2	2.10	0.52
17:Be:213:ARG:HH21	17:Be:297:LYS:HD2	1.75	0.52
18:Bf:101:ASN:HA	18:Bf:144:GLY:H	1.75	0.52
18:Bf:194:LEU:O	18:Bf:198:THR:HG22	2.09	0.52
17:Bg:130:LEU:O	17:Bg:162:ARG:NE	2.42	0.52
17:Bg:286:VAL:HG22	17:Bg:321:MET:SD	2.48	0.52
18:Cb:169:PHE:HZ	18:Cb:238:LEU:HD13	1.74	0.52
17:Da:198:GLU:HG3	17:Da:266:PHE:CE2	2.40	0.52
17:Da:362:LYS:HD3	17:Da:363:MET:HG3	1.91	0.52
17:Dg:67:ASP:O	17:Dg:92:PHE:HA	2.09	0.52
18:Dh:339:ARG:NH2	18:Dh:342:GLN:OE1	2.42	0.52
1:0B:191:ILE:HD11	1:0C:191:ILE:HD11	1.90	0.52
5:0M:243:LEU:HB3	5:0M:279:GLU:HB3	1.91	0.52
5:0M:742:PHE:CZ	18:Bf:57:GLY:HA2	2.45	0.52
12:0X:232:ALA:HB1	12:0X:233:VAL:HG23	1.92	0.52
12:0Z:276:ASN:HB3	12:0Z:280:ARG:HH21	1.75	0.52
13:1C:1234:ILE:HG12	13:1C:1239:LEU:HD12	1.92	0.52
13:1C:1299:LEU:HD11	13:1C:1327:LEU:HB3	1.90	0.52
14:1F:790:LEU:HD13	14:1F:793:LEU:HD12	1.91	0.52
17:1a:324:LYS:HG2	18:1h:222:PRO:HD2	1.92	0.52
18:1d:9:ILE:HD13	18:1d:150:GLY:HA2	1.90	0.52
17:3e:139:LEU:HD12	17:3e:170:VAL:HG22	1.90	0.52
17:4g:208:TYR:CE1	17:4g:225:LEU:HD11	2.45	0.52
17:5a:67:ASP:O	17:5a:92:PHE:HA	2.10	0.52
18:5d:255:PHE:O	18:5d:259:LEU:HB2	2.10	0.52
17:5e:10:GLY:O	17:5e:14:ASN:ND2	2.42	0.52
18:6f:21:TRP:CZ2	18:6f:65:CYS:HB2	2.44	0.52
17:6g:31:ASP:HB3	17:6g:37:HIS:CD2	2.44	0.52
17:8a:213:ARG:HH21	17:8a:297:LYS:HD2	1.75	0.52
17:8e:73:MET:HE3	17:8e:92:PHE:CD2	2.44	0.52
17:9c:10:GLY:O	17:9c:14:ASN:ND2	2.42	0.52
17:9e:55:THR:OG1	17:Ae:282:ARG:O	2.25	0.52
17:9g:274:THR:HG22	17:9g:282:ARG:HD3	1.92	0.52
18:Ab:407:TRP:HZ2	17:Ac:258:ILE:HD12	1.75	0.52
17:Bc:262:ARG:HH21	17:Bc:421:GLU:CD	2.17	0.52
18:Cd:70:LEU:HD12	18:Cd:99:ALA:HB2	1.91	0.52
17:Ce:113:ILE:HG13	17:Ce:117:LEU:HD23	1.92	0.52
17:Cg:377:MET:HG3	17:Cg:380:ARG:NH2	2.25	0.52
18:Ch:21:TRP:CZ2	18:Ch:65:CYS:HB2	2.45	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Da:67:ASP:OD2	17:Da:72:THR:OG1	2.22	0.52
17:Dc:100:ASN:HB3	17:Dc:103:LYS:HB2	1.91	0.52
1:0A:166:VAL:HG12	1:0D:166:VAL:HG12	1.91	0.52
3:0J:456:SER:HB2	3:0J:515:THR:HG23	1.91	0.52
5:0N:345:LEU:HD22	5:0N:352:ALA:HB1	1.91	0.52
7:0Q:283:VAL:HG11	7:0Q:301:VAL:HG11	1.92	0.52
7:0Q:342:VAL:HG11	7:0Q:604:VAL:HG11	1.89	0.52
13:1B:1116:VAL:HG22	13:1B:1189:VAL:HG22	1.92	0.52
17:1c:373:ALA:O	17:1c:376:GLU:HG2	2.09	0.52
17:2a:73:MET:HE3	17:2a:90:PHE:HB3	1.91	0.52
17:2a:113:ILE:HG13	17:2a:117:LEU:HD23	1.91	0.52
21:2d:501:GTP:O1B	17:2e:252:LYS:NZ	2.41	0.52
18:2h:9:ILE:HD13	18:2h:150:GLY:HA2	1.90	0.52
18:3b:265:ILE:HG21	18:3b:313:MET:HE1	1.91	0.52
18:3d:132:LEU:HB3	18:3d:164:LYS:HE2	1.92	0.52
17:3g:232:VAL:HG21	17:3g:300:MET:HE1	1.90	0.52
17:4a:184:ASN:OD1	17:4a:398:TYR:OH	2.23	0.52
17:4c:187:LEU:HD22	17:4c:403:MET:HE1	1.90	0.52
17:4c:215:LEU:HB3	17:4c:217:LEU:HD13	1.92	0.52
17:4g:311:LEU:HD23	17:4g:342:VAL:HG21	1.92	0.52
18:4h:30:ILE:HA	18:4h:36:MET:HB3	1.92	0.52
17:5c:10:GLY:O	17:5c:14:ASN:ND2	2.42	0.52
17:5e:67:ASP:HA	17:5e:147:MET:HE1	1.92	0.52
17:6g:99:ASN:OD1	18:6h:258:ASN:ND2	2.39	0.52
17:6g:177:ASP:O	18:6h:352:LYS:HA	2.10	0.52
17:7g:238:CYS:SG	17:7g:241:ARG:NH2	2.82	0.52
18:7h:396:ASP:OD1	18:7h:397:LEU:N	2.43	0.52
17:8c:36:TYR:OH	17:8c:40:SER:N	2.35	0.52
17:9e:163:MET:HE3	17:9e:251:ARG:NH1	2.24	0.52
17:9g:113:ILE:HG13	17:9g:117:LEU:HD23	1.92	0.52
17:Ac:152:ILE:HG23	17:Ac:164:MET:HE3	1.92	0.52
18:Bd:317:LEU:O	18:Bd:318:MET:HE2	2.09	0.52
1:0A:208:MET:HE2	1:0D:208:MET:CE	2.40	0.52
5:0M:626:SER:O	5:0M:630:SER:HB3	2.09	0.52
8:0T:75:UNK:O	17:Ce:125:GLU:HB2	2.10	0.52
12:0X:215:VAL:HG13	12:0X:240:VAL:HG22	1.92	0.52
12:0Z:109:ALA:O	12:0Z:110:HIS:ND1	2.43	0.52
12:1A:94:GLY:HA2	12:1A:206:ASN:HD22	1.75	0.52
14:1E:1005:ARG:HA	14:1E:1008:GLU:HG3	1.90	0.52
18:1d:223:THR:OG1	17:1e:245:GLN:OE1	2.28	0.52
18:2f:198:THR:HG21	18:2f:201:ALA:HB2	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:3d:223:THR:OG1	17:3e:245:GLN:OE1	2.27	0.52
18:3d:311:LYS:H	18:3d:382:THR:HG22	1.74	0.52
17:3e:311:LEU:HD23	17:3e:342:VAL:HG21	1.91	0.52
17:4c:10:GLY:O	17:4c:14:ASN:ND2	2.42	0.52
18:4d:16:VAL:HA	18:4d:228:ASN:HB3	1.91	0.52
18:4d:217:LEU:HD21	18:4d:368:LEU:HD23	1.91	0.52
17:4g:130:LEU:O	17:4g:162:ARG:NE	2.42	0.52
18:4h:88:HIS:HB3	18:4h:91:GLN:HB2	1.91	0.52
18:5b:16:VAL:HA	18:5b:228:ASN:HB3	1.91	0.52
17:5c:159:TYR:HB3	17:5c:162:ARG:HG3	1.92	0.52
18:5d:377:MET:HE3	18:5d:379:SER:HB3	1.90	0.52
18:6b:2:ARG:HB3	18:6b:242:LEU:HD12	1.91	0.52
17:7a:299:MET:HE2	17:7a:299:MET:N	2.25	0.52
17:7e:130:LEU:O	17:7e:162:ARG:NE	2.42	0.52
18:8d:4:VAL:HG22	18:8d:133:GLN:HB2	1.92	0.52
18:9b:180:ALA:HB3	18:9b:183:GLU:HB2	1.92	0.52
17:9c:159:TYR:HB3	17:9c:162:ARG:HG3	1.92	0.52
17:Aa:198:GLU:HG3	17:Aa:266:PHE:HE2	1.75	0.52
17:Ba:67:ASP:OD2	17:Ba:72:THR:OG1	2.16	0.52
17:Ba:325:GLU:OE1	18:Bh:221:ARG:NH1	2.38	0.52
18:Bd:211:ASP:O	18:Bd:215:ARG:HG2	2.10	0.52
18:Bd:306:ASP:HB3	18:Bd:309:HIS:CD2	2.45	0.52
17:Cg:73:MET:CE	17:Cg:92:PHE:HB3	2.40	0.52
18:Ch:70:LEU:HD12	18:Ch:99:ALA:HB2	1.92	0.52
17:Dc:273:LEU:H	17:Dc:292:GLN:HE22	1.56	0.52
3:0J:512:GLU:HA	3:0J:529:LEU:H	1.74	0.52
7:0S:8:ILE:HD11	7:0S:586:CYS:HB3	1.92	0.52
12:0Z:86:THR:HB	12:0Z:306:THR:HG22	1.92	0.52
13:1B:1769:TRP:HB2	14:1E:522:HIS:NE2	2.25	0.52
14:1D:820:THR:HB	14:1D:826:LEU:HD11	1.91	0.52
14:1D:1025:SER:OG	14:1D:1052:GLN:NE2	2.43	0.52
18:1h:216:SER:HB3	18:1h:275:ILE:O	2.10	0.52
17:3c:268:VAL:HG23	17:3c:300:MET:HE3	1.92	0.52
17:4a:46:ARG:NH2	18:4h:76:ASP:OD2	2.42	0.52
18:4b:11:GLN:N	21:4b:501:GTP:O1A	2.39	0.52
18:4d:60:LYS:HE3	18:5d:283:HIS:CD2	2.45	0.52
17:4e:275:SER:HG	17:4e:278:SER:HG	1.52	0.52
17:4e:391:ARG:NH2	18:4f:438:GLU:O	2.43	0.52
17:5a:388:MET:SD	17:5a:393:ALA:HB3	2.50	0.52
18:5b:9:ILE:HD11	18:5b:153:LEU:HD23	1.89	0.52
18:5d:16:VAL:HA	18:5d:228:ASN:HB3	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:5d:431:ASP:O	18:5d:435:VAL:HG22	2.10	0.52
17:5e:318:ARG:HB3	17:5e:357:PRO:HA	1.91	0.52
18:5h:217:LEU:HD21	18:5h:368:LEU:HD23	1.92	0.52
17:6a:99:ASN:OD1	17:6a:184:ASN:ND2	2.43	0.52
18:6b:244:PHE:O	18:6b:356:ASN:ND2	2.40	0.52
18:6d:180:ALA:HB3	18:6d:183:GLU:HB2	1.92	0.52
18:6f:2:ARG:HB3	18:6f:242:LEU:HD12	1.90	0.52
18:6f:8:HIS:ND1	18:6f:65:CYS:SG	2.83	0.52
18:6h:252:ILE:HD13	18:6h:255:PHE:CE2	2.45	0.52
18:7b:223:THR:OG1	17:7c:245:GLN:OE1	2.26	0.52
18:7f:255:PHE:O	18:7f:259:LEU:HB2	2.10	0.52
18:7f:336:LYS:NZ	18:7f:348:PRO:O	2.42	0.52
18:7h:395:PHE:CD1	18:7h:422:ARG:HD3	2.44	0.52
17:8a:30:ILE:HD11	17:8a:47:ILE:HD11	1.91	0.52
17:9a:294:TRP:HZ2	17:9a:330:MET:HE3	1.75	0.52
17:9c:49:VAL:O	17:9c:62:ARG:NH1	2.42	0.52
18:9h:256:GLN:OE1	18:9h:256:GLN:N	2.40	0.52
17:Aa:272:PRO:HD3	17:Aa:364:SER:HA	1.92	0.52
18:Ab:268:MET:HB3	18:Ab:378:ILE:HG13	1.92	0.52
17:Ae:20:PHE:HA	17:Ae:230:SER:HB2	1.90	0.52
17:Ae:145:SER:HB3	17:Ae:188:SER:OG	2.09	0.52
17:Be:145:SER:HB3	17:Be:188:SER:OG	2.10	0.52
17:Cc:313:ALA:O	17:Cc:349:VAL:HA	2.10	0.52
18:Cd:298:PRO:HB3	18:Cd:307:PRO:HD2	1.92	0.52
18:Cf:242:LEU:HD21	18:Cf:252:ILE:HG12	1.91	0.52
17:Cg:64:ILE:HD13	17:Cg:120:VAL:HG22	1.92	0.52
17:Da:139:LEU:HG	17:Da:168:SER:HB3	1.92	0.52
17:Da:152:ILE:HG12	17:Da:164:MET:HE3	1.92	0.52
17:Da:267:MET:HE2	17:Da:305:PRO:HG3	1.92	0.52
18:Dh:169:PHE:HZ	18:Dh:238:LEU:HD13	1.73	0.52
1:0B:335:HIS:CD2	1:0B:336:PRO:HD2	2.45	0.52
3:0I:450:THR:O	13:1C:1383:GLU:HG2	2.10	0.52
3:0J:512:GLU:HG2	3:0J:528:THR:HB	1.91	0.52
6:0O:189:THR:HB	17:Bg:360:GLY:HA3	1.91	0.52
7:0Q:64:ALA:HB2	7:0Q:107:VAL:HG13	1.92	0.52
7:0S:465:ILE:HD12	7:0S:478:ALA:HB1	1.92	0.52
12:0Z:12:THR:OG1	12:0Z:60:GLU:O	2.28	0.52
13:1B:1305:LEU:HD22	13:1B:1325:TYR:HE1	1.75	0.52
13:1C:1127:TRP:HA	13:1C:1132:LEU:HD12	1.92	0.52
13:1C:1521:ARG:NH2	13:1C:1522:TYR:OH	2.42	0.52
14:1F:864:GLU:HA	14:1F:867:ARG:HD2	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1b:101:ASN:HA	18:1b:144:GLY:H	1.75	0.52
18:1d:216:SER:HB3	18:1d:275:ILE:O	2.09	0.52
17:1g:130:LEU:O	17:1g:162:ARG:NE	2.42	0.52
17:2a:311:LEU:HD23	17:2a:342:VAL:HG21	1.91	0.52
18:2b:255:PHE:O	18:2b:259:LEU:HB2	2.09	0.52
18:2f:16:VAL:HA	18:2f:228:ASN:HB3	1.91	0.52
18:2h:271:SER:HB3	18:2h:301:MET:SD	2.50	0.52
18:3b:169:PHE:HZ	18:3b:238:LEU:HD13	1.74	0.52
18:3d:255:PHE:O	18:3d:259:LEU:HB2	2.10	0.52
18:4b:9:ILE:HD11	18:4b:153:LEU:HD23	1.91	0.52
17:4c:7:ILE:HD13	17:4c:151:LEU:HD21	1.91	0.52
18:4d:9:ILE:HD11	18:4d:153:LEU:HD23	1.92	0.52
17:4e:377:MET:HG3	17:4e:380:ARG:HH22	1.74	0.52
18:5b:9:ILE:HD13	18:5b:150:GLY:HA2	1.92	0.52
17:5g:215:LEU:HB3	17:5g:217:LEU:HD13	1.92	0.52
17:6a:49:VAL:O	17:6a:62:ARG:NH1	2.43	0.52
17:6g:167:PHE:CD2	17:6g:233:MET:HE2	2.45	0.52
18:7d:9:ILE:HD13	18:7d:150:GLY:HA2	1.92	0.52
17:8a:6:HIS:HE1	17:8a:233:MET:HE1	1.75	0.52
18:8f:70:LEU:HD12	18:8f:99:ALA:HB2	1.92	0.52
17:8g:260:PHE:HB2	17:8g:263:LEU:HD13	1.90	0.52
18:8h:2:ARG:HB3	18:8h:242:LEU:HD12	1.91	0.52
17:Ac:375:GLN:HG3	17:Ac:419:VAL:HG13	1.92	0.52
17:Ae:220:PRO:O	18:Af:326:LYS:NZ	2.31	0.52
17:Ag:417:ASP:O	17:Ag:421:GLU:HG2	2.10	0.52
17:Ba:8:GLN:O	17:Ba:66:MET:HG2	2.10	0.52
17:Bc:385:PHE:HZ	17:Bc:408:PHE:HB3	1.75	0.52
17:Bc:406:MET:HE3	16:1L:100:UNK:C	2.40	0.52
18:Cb:167:LEU:HG	18:Cb:200:VAL:HB	1.91	0.52
18:Cd:2:ARG:HB3	18:Cd:242:LEU:HD12	1.91	0.52
17:Ce:40:SER:HB3	17:Ce:43:GLN:HG3	1.92	0.52
17:Dc:373:ALA:O	17:Dc:376:GLU:HG2	2.10	0.52
18:Dh:200:VAL:HG23	18:Dh:256:GLN:HG3	1.92	0.52
18:Dh:360:PRO:HG3	18:Dh:374:ALA:HB2	1.92	0.52
1:0A:367:HIS:ND1	1:0A:389:ASP:OD2	2.33	0.52
1:0D:180:LEU:HD11	4:0L:123:ALA:HB2	1.92	0.52
3:0I:135:MET:CE	17:Bg:421:GLU:HG2	2.39	0.52
3:0I:433:CYS:O	3:0I:535:ALA:HA	2.09	0.52
3:0I:453:VAL:HG12	3:0I:518:PRO:HG2	1.91	0.52
3:0J:309:ARG:HH11	18:Bd:423:GLU:HB2	1.74	0.52
5:0N:291:GLU:O	17:Cc:362:LYS:NZ	2.42	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0Q:106:THR:HG22	7:0Q:119:ALA:HB3	1.90	0.52
7:0S:46:ASN:HD21	7:0S:322:SER:HB3	1.75	0.52
13:1B:1524:LEU:HB3	13:1B:1617:VAL:HG13	1.91	0.52
14:1D:999:TYR:CE2	14:1D:1007:ALA:HB1	2.45	0.52
14:1F:929:ARG:HG2	14:1F:960:TRP:CE2	2.45	0.52
18:1b:70:LEU:HD12	18:1b:99:ALA:HB2	1.91	0.52
18:1b:132:LEU:HB3	18:1b:164:LYS:HE2	1.92	0.52
18:1h:237:SER:HA	18:1h:320:ARG:HD2	1.91	0.52
18:1h:336:LYS:NZ	18:1h:348:PRO:O	2.43	0.52
18:3h:9:ILE:HD11	18:3h:153:LEU:HD23	1.92	0.52
18:4b:312:TYR:HA	18:4b:381:SER:HB2	1.90	0.52
17:4e:326:VAL:O	17:4e:330:MET:HG2	2.09	0.52
18:4f:16:VAL:HA	18:4f:228:ASN:HB3	1.91	0.52
17:5c:145:SER:HB3	17:5c:188:SER:OG	2.09	0.52
18:5f:16:VAL:HA	18:5f:228:ASN:HB3	1.92	0.52
17:6a:10:GLY:O	17:6a:14:ASN:ND2	2.43	0.52
17:6c:7:ILE:HD13	17:6c:151:LEU:HD21	1.91	0.52
17:6c:382:SER:OG	17:6c:415:MET:HE1	2.10	0.52
18:6d:70:LEU:HD12	18:6d:99:ALA:HB2	1.91	0.52
17:6e:382:SER:OG	17:6e:415:MET:HE1	2.10	0.52
17:7c:215:LEU:HB3	17:7c:217:LEU:HD13	1.91	0.52
17:7g:198:GLU:HG3	17:7g:266:PHE:CE2	2.45	0.52
18:8d:9:ILE:HD13	18:8d:150:GLY:HA2	1.90	0.52
17:8e:139:LEU:HD12	17:8e:170:VAL:HG22	1.92	0.52
17:8g:60:VAL:HG21	17:8g:86:ARG:CZ	2.39	0.52
18:8h:319:TYR:HB3	18:8h:323:VAL:HG21	1.90	0.52
17:9a:86:ARG:NE	17:9a:86:ARG:HA	2.25	0.52
18:Ab:312:TYR:HA	18:Ab:381:SER:HB2	1.91	0.52
17:Ac:207:LEU:HD13	17:Ac:225:LEU:HB3	1.92	0.52
18:Af:15:GLN:HA	18:Af:18:ASN:HD22	1.74	0.52
17:Ba:7:ILE:HD13	17:Ba:151:LEU:HD21	1.92	0.52
17:Be:159:TYR:HB3	17:Be:162:ARG:HG3	1.92	0.52
17:Be:238:CYS:SG	17:Be:241:ARG:NH2	2.81	0.52
17:Ce:10:GLY:O	17:Ce:14:ASN:ND2	2.43	0.52
17:Da:207:LEU:HB3	17:Da:225:LEU:HD22	1.91	0.52
5:0M:203:GLY:HA3	5:0M:308:GLN:HG2	1.92	0.51
5:0M:339:HIS:NE2	5:0M:417:VAL:O	2.40	0.51
7:0S:72:LEU:HD22	7:0S:107:VAL:HG21	1.92	0.51
13:1C:1116:VAL:HA	13:1C:1188:HIS:O	2.10	0.51
18:1b:21:TRP:CZ2	18:1b:65:CYS:HB2	2.44	0.51
17:1c:173:PRO:HB3	17:1c:380:ARG:CZ	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1e:145:SER:HB3	17:1e:188:SER:OG	2.10	0.51
17:1g:174:LYS:HB2	17:1g:205:GLU:OE2	2.10	0.51
17:3c:215:LEU:HB3	17:3c:217:LEU:HD13	1.91	0.51
17:3e:145:SER:HB3	17:3e:188:SER:OG	2.10	0.51
17:4c:397:TRP:CZ2	18:4d:256:GLN:HB3	2.45	0.51
17:5c:377:MET:HG3	17:5c:380:ARG:NH2	2.25	0.51
17:5e:140:GLY:HA2	17:5e:184:ASN:HB2	1.92	0.51
17:5g:184:ASN:OD1	17:5g:398:TYR:OH	2.22	0.51
17:6e:145:SER:HB3	17:6e:188:SER:OG	2.10	0.51
18:7h:319:TYR:HB3	18:7h:323:VAL:HG21	1.92	0.51
17:8c:12:CYS:HB2	20:8c:501:GDP:C8	2.44	0.51
17:8c:131:GLN:O	17:8c:163:MET:CB	2.58	0.51
17:8g:375:GLN:HG2	17:8g:379:LYS:HE2	1.91	0.51
17:9a:238:CYS:SG	17:9a:241:ARG:NH2	2.83	0.51
18:9f:133:GLN:HG3	18:9f:242:LEU:HD11	1.92	0.51
18:9h:200:VAL:HG23	18:9h:256:GLN:HG3	1.92	0.51
17:Bc:139:LEU:HD12	17:Bc:170:VAL:HG22	1.91	0.51
17:Bg:7:ILE:HD13	17:Bg:151:LEU:HD21	1.93	0.51
18:Cd:36:MET:HG2	18:Cd:61:HIS:CE1	2.45	0.51
18:Df:141:VAL:HG13	18:Df:190:SER:OG	2.10	0.51
1:0A:191:ILE:HD11	1:0D:191:ILE:HD11	1.91	0.51
1:0C:180:LEU:HD11	4:0K:123:ALA:HB2	1.93	0.51
1:0D:316:LEU:HG	1:0D:317:SER:H	1.75	0.51
2:0E:56:ASP:O	2:0E:80:ARG:NE	2.43	0.51
3:0I:211:LEU:HB3	17:Cg:209:ASP:OD2	2.10	0.51
3:0J:193:ALA:HB2	3:0J:333:LEU:HD12	1.93	0.51
5:0M:197:LEU:HD22	5:0M:201:ARG:HH21	1.75	0.51
5:0N:136:ALA:HB3	5:0N:140:LYS:HB2	1.92	0.51
5:0N:648:LYS:NZ	18:1d:15:GLN:OE1	2.42	0.51
14:1D:966:LEU:HD11	14:1D:999:TYR:CE1	2.45	0.51
17:1a:377:MET:HG3	17:1a:380:ARG:HH22	1.75	0.51
17:1e:72:THR:O	17:1e:75:SER:OG	2.24	0.51
18:1f:306:ASP:HB3	18:1f:309:HIS:CD2	2.45	0.51
17:2a:130:LEU:O	17:2a:162:ARG:NE	2.43	0.51
18:2h:399:TYR:O	18:2h:402:ARG:NH1	2.38	0.51
17:4a:20:PHE:HA	17:4a:230:SER:HB2	1.91	0.51
17:5a:130:LEU:O	17:5a:162:ARG:NE	2.43	0.51
17:5c:130:LEU:O	17:5c:162:ARG:NE	2.43	0.51
17:5e:161:ASP:OD1	17:5e:161:ASP:N	2.43	0.51
18:5f:70:LEU:HD12	18:5f:99:ALA:HB2	1.92	0.51
17:6a:318:ARG:HB3	17:6a:357:PRO:HA	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:6c:373:ALA:O	17:6c:376:GLU:HG2	2.10	0.51
17:7a:207:LEU:HD13	17:7a:225:LEU:HB3	1.93	0.51
17:7e:36:TYR:OH	17:7e:40:SER:N	2.41	0.51
17:7g:10:GLY:O	17:7g:14:ASN:ND2	2.44	0.51
18:8f:316:CYS:HB3	18:8f:378:ILE:HG23	1.92	0.51
17:9c:396:HIS:CE1	18:9d:263:PRO:HD3	2.45	0.51
17:9g:373:ALA:O	17:9g:376:GLU:HG2	2.09	0.51
17:Aa:161:ASP:OD1	17:Aa:161:ASP:N	2.43	0.51
18:Ab:311:LYS:H	18:Ab:382:THR:HG22	1.75	0.51
17:Ag:67:ASP:O	17:Ag:92:PHE:HA	2.10	0.51
18:Ah:9:ILE:HD11	18:Ah:153:LEU:HD23	1.92	0.51
17:Be:274:THR:OG1	17:Be:279:GLN:OE1	2.18	0.51
18:Dd:21:TRP:CZ2	18:Dd:65:CYS:HB2	2.44	0.51
1:0A:135:LEU:CB	1:0D:135:LEU:HB3	2.40	0.51
4:0K:196:ILE:HG13	4:0K:198:GLN:H	1.75	0.51
4:0L:80:HIS:O	4:0L:84:THR:HG23	2.11	0.51
12:0X:15:THR:HG22	12:0X:313:TRP:HE1	1.75	0.51
13:1C:1177:THR:HG22	13:1C:1290:VAL:HB	1.91	0.51
13:1C:1317:GLU:OE1	13:1C:1750:TYR:OH	2.27	0.51
14:1F:594:LEU:HD23	14:1F:601:ARG:HG2	1.90	0.51
17:1c:219:THR:HA	18:1d:326:LYS:NZ	2.25	0.51
17:2a:73:MET:HE1	17:2a:92:PHE:HB3	1.91	0.51
17:2c:74:ASP:OD1	17:2c:77:ARG:NH2	2.40	0.51
17:2c:272:PRO:HD3	17:2c:364:SER:HA	1.93	0.51
17:2g:36:TYR:OH	17:2g:40:SER:N	2.42	0.51
18:3f:9:ILE:HD13	18:3f:150:GLY:HA2	1.92	0.51
18:3h:16:VAL:HA	18:3h:228:ASN:HB3	1.92	0.51
17:4c:113:ILE:HG13	17:4c:117:LEU:HD23	1.91	0.51
17:4e:208:TYR:CE1	17:4e:225:LEU:HD11	2.46	0.51
17:4g:139:LEU:HG	17:4g:168:SER:HB3	1.93	0.51
17:4g:208:TYR:HD1	18:4h:326:LYS:HE3	1.74	0.51
17:5a:102:ALA:HB2	17:5a:403:MET:HE2	1.91	0.51
17:5a:373:ALA:O	17:5a:376:GLU:HG2	2.09	0.51
18:5b:79:ARG:NH1	18:5b:94:SER:OG	2.43	0.51
18:6d:88:HIS:HB3	18:6d:91:GLN:HB2	1.92	0.51
18:6f:167:LEU:HD11	18:6f:256:GLN:HE22	1.75	0.51
17:7a:200:MET:HE1	17:7a:266:PHE:HD2	1.75	0.51
17:7g:373:ALA:O	17:7g:376:GLU:HG2	2.11	0.51
17:8c:99:ASN:HA	17:8c:142:GLY:H	1.75	0.51
17:8c:140:GLY:HA2	17:8c:184:ASN:HB2	1.93	0.51
17:8g:272:PRO:HD3	17:8g:364:SER:HA	1.91	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:8h:101:ASN:HA	18:8h:144:GLY:H	1.74	0.51
18:9b:174:SER:HB2	18:9b:177:VAL:O	2.10	0.51
17:Ac:219:THR:HA	18:Ad:326:LYS:NZ	2.25	0.51
18:Ah:202:VAL:C	18:Ah:203:MET:HE2	2.36	0.51
17:Be:164:MET:HG2	17:Be:196:ALA:HA	1.92	0.51
17:Bg:73:MET:HA	17:Bg:76:VAL:HB	1.91	0.51
18:Bh:9:ILE:HD13	18:Bh:150:GLY:HA2	1.92	0.51
17:Ca:139:LEU:HD12	17:Ca:170:VAL:HG22	1.92	0.51
18:Cb:173:PRO:HG2	18:Cb:391:LEU:HD11	1.93	0.51
18:Cb:216:SER:O	18:Cb:280:LYS:NZ	2.41	0.51
18:Cf:174:SER:HB3	18:Cf:207:GLU:HB2	1.91	0.51
5:0N:203:GLY:HA3	5:0N:308:GLN:HG2	1.92	0.51
7:0S:298:ALA:HB1	7:0S:310:ARG:HG3	1.93	0.51
12:0Z:229:SER:HB2	12:0Z:352:ARG:HD2	1.93	0.51
13:1B:1325:TYR:HE2	13:1B:1403:ILE:HD13	1.75	0.51
14:1E:999:TYR:CE2	14:1E:1007:ALA:HB1	2.45	0.51
17:1a:49:VAL:O	17:1a:62:ARG:NH1	2.42	0.51
18:2d:202:VAL:C	18:2d:203:MET:HE2	2.35	0.51
17:2e:113:ILE:HG13	17:2e:117:LEU:HD23	1.91	0.51
18:2h:137:VAL:HG21	18:2h:154:LEU:HD21	1.91	0.51
17:3a:375:GLN:HG3	17:3a:419:VAL:HG13	1.91	0.51
17:4c:184:ASN:OD1	17:4c:398:TYR:OH	2.23	0.51
17:4g:228:LEU:HB3	17:4g:300:MET:HE2	1.93	0.51
18:4h:234:VAL:HG21	18:4h:302:MET:HE1	1.92	0.51
18:5b:312:TYR:HA	18:5b:381:SER:HB2	1.92	0.51
17:6a:215:LEU:HB3	17:6a:217:LEU:HD13	1.92	0.51
18:6f:317:LEU:HD13	18:6f:319:TYR:HE1	1.74	0.51
18:7d:255:PHE:O	18:7d:259:LEU:HB2	2.11	0.51
18:7d:261:PRO:HG3	18:7d:313:MET:HE2	1.93	0.51
18:8b:9:ILE:HD13	18:8b:150:GLY:HA2	1.91	0.51
17:8g:87:PRO:HD2	17:9g:281:TYR:CD2	2.46	0.51
18:9f:12:ALA:HB3	18:9f:140:ALA:HB2	1.92	0.51
17:Aa:159:TYR:HB3	17:Aa:162:ARG:HG3	1.92	0.51
18:Ab:16:VAL:HA	18:Ab:228:ASN:HB3	1.91	0.51
17:Ac:167:PHE:CE1	17:Ac:233:MET:HG2	2.45	0.51
18:Af:21:TRP:CZ2	18:Af:65:CYS:HB2	2.44	0.51
18:Af:222:PRO:HD2	17:Ag:324:LYS:HG2	1.90	0.51
17:Ag:205:GLU:HA	17:Ag:208:TYR:CD2	2.46	0.51
17:Ba:159:TYR:HB3	17:Ba:162:ARG:HG3	1.93	0.51
17:Bc:7:ILE:HD13	17:Bc:151:LEU:HD21	1.91	0.51
17:Ca:100:ASN:HB3	17:Ca:103:LYS:HB2	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ca:215:LEU:HB3	17:Ca:217:LEU:HD13	1.93	0.51
17:Cg:238:CYS:SG	17:Cg:241:ARG:NH2	2.83	0.51
18:Dd:28:HIS:CE1	18:Dd:243:ARG:HD2	2.46	0.51
1:0A:412:ALA:C	1:0A:429:SER:HG	2.18	0.51
2:0H:66:ARG:NH2	17:Dg:402:GLY:O	2.41	0.51
2:0H:81:TYR:CZ	2:0H:145:PHE:HB3	2.46	0.51
13:1C:1135:LEU:HD21	13:1C:1285:LEU:HD21	1.92	0.51
18:1b:144:GLY:N	21:1b:501:GTP:O2G	2.44	0.51
17:2g:140:GLY:HA2	17:2g:184:ASN:HB2	1.92	0.51
18:3f:213:CYS:HA	18:3f:217:LEU:HD12	1.93	0.51
17:4c:218:THR:O	18:4d:326:LYS:NZ	2.40	0.51
18:4h:33:ASP:HA	18:4h:85:GLN:HE21	1.75	0.51
17:5a:159:TYR:HB3	17:5a:162:ARG:HG3	1.93	0.51
17:5e:203:ASP:OD2	17:5e:302:ALA:N	2.30	0.51
17:5g:159:TYR:HB3	17:5g:162:ARG:HG3	1.92	0.51
17:5g:167:PHE:HA	17:5g:200:MET:HB2	1.92	0.51
18:5h:2:ARG:HB3	18:5h:242:LEU:HD12	1.92	0.51
18:6b:251:ASP:OD1	18:6b:252:ILE:N	2.44	0.51
18:6d:169:PHE:HZ	18:6d:238:LEU:HD13	1.75	0.51
18:6f:255:PHE:O	18:6f:259:LEU:HB2	2.10	0.51
17:6g:10:GLY:O	17:6g:14:ASN:ND2	2.43	0.51
17:7a:46:ARG:NH2	18:7h:76:ASP:OD2	2.43	0.51
17:7a:213:ARG:HH21	17:7a:297:LYS:HD2	1.76	0.51
18:7b:399:TYR:O	18:7b:402:ARG:NH1	2.37	0.51
18:7d:269:LEU:HD21	18:7d:384:ILE:HG22	1.91	0.51
18:7f:4:VAL:HG22	18:7f:133:GLN:HB2	1.93	0.51
18:7h:250:VAL:HG22	18:7h:352:LYS:HE3	1.92	0.51
18:8b:312:TYR:HA	18:8b:381:SER:HB2	1.90	0.51
18:8b:390:ARG:HA	18:8b:393:HIS:CD2	2.46	0.51
17:8e:375:GLN:HG3	17:8e:419:VAL:HG13	1.93	0.51
18:8f:192:HIS:ND1	18:8f:424:ASP:OD2	2.39	0.51
18:8h:4:VAL:HG22	18:8h:133:GLN:HB2	1.92	0.51
17:9c:67:ASP:O	17:9c:92:PHE:HA	2.09	0.51
17:9e:113:ILE:HG13	17:9e:117:LEU:HD23	1.91	0.51
17:9g:102:ALA:HB2	17:9g:403:MET:HE2	1.93	0.51
17:Aa:375:GLN:HG3	17:Aa:419:VAL:HG13	1.92	0.51
18:Ab:33:ASP:HA	18:Ab:85:GLN:HE21	1.75	0.51
18:Ad:169:PHE:HZ	18:Ad:238:LEU:HD13	1.74	0.51
17:Ba:253:LEU:HD11	17:Ba:316:LEU:HD21	1.92	0.51
17:Bc:20:PHE:HA	17:Bc:230:SER:HB2	1.91	0.51
17:Bc:309:ARG:NE	17:Bc:339:SER:O	2.43	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Be:139:LEU:HG	17:Be:168:SER:HB3	1.91	0.51
18:Cb:250:VAL:HG22	18:Cb:352:LYS:HE3	1.92	0.51
17:Da:328:GLU:O	17:Da:332:ASN:ND2	2.43	0.51
18:Db:21:TRP:CZ2	18:Db:65:CYS:HB2	2.46	0.51
1:0B:132:ARG:HG3	1:0B:133:ARG:HG3	1.93	0.51
1:0C:564:SER:HB2	1:0C:571:GLN:HE21	1.75	0.51
3:0I:457:TRP:NE1	3:0I:483:GLN:HG2	2.25	0.51
3:0J:212:ARG:NH2	17:Cc:299:MET:O	2.43	0.51
5:0M:147:ILE:O	5:0M:151:GLU:HB2	2.10	0.51
5:0M:337:MET:HE3	5:0M:337:MET:HA	1.92	0.51
5:0M:388:VAL:O	5:0M:392:MET:HG3	2.10	0.51
6:0P:38:ARG:NH1	18:1h:327:ASP:OD2	2.42	0.51
7:0S:428:LEU:HD11	7:0S:449:LEU:HD11	1.91	0.51
7:0S:584:ALA:HB3	7:0S:615:TRP:HZ3	1.76	0.51
13:1C:1313:VAL:HA	13:1C:1750:TYR:CE1	2.43	0.51
14:1D:493:GLU:HA	14:1D:496:ARG:HH22	1.75	0.51
14:1G:596:ARG:HA	14:1G:596:ARG:NH1	2.25	0.51
17:1a:10:GLY:O	17:1a:14:ASN:ND2	2.43	0.51
17:1g:139:LEU:HD12	17:1g:170:VAL:HG22	1.91	0.51
17:2c:113:ILE:HG13	17:2c:117:LEU:HD23	1.92	0.51
17:2g:317:PHE:CD2	17:2g:321:MET:HE1	2.46	0.51
18:3f:234:VAL:CG2	18:3f:302:MET:HE1	2.40	0.51
18:4f:70:LEU:HD12	18:4f:99:ALA:HB2	1.92	0.51
17:6c:267:MET:HG3	17:6c:299:MET:HE2	1.92	0.51
17:7c:6:HIS:HE1	17:7c:233:MET:HE1	1.76	0.51
17:7c:130:LEU:O	17:7c:162:ARG:NE	2.43	0.51
17:7e:267:MET:HE1	17:7e:305:PRO:HG3	1.92	0.51
17:7g:273:LEU:N	17:7g:292:GLN:HE22	2.09	0.51
18:8d:147:SER:HB2	18:8d:190:SER:HB3	1.91	0.51
18:8f:101:ASN:HA	18:8f:144:GLY:H	1.74	0.51
17:8g:167:PHE:HA	17:8g:200:MET:HB2	1.93	0.51
18:8h:9:ILE:HD11	18:8h:153:LEU:HD23	1.91	0.51
18:8h:105:ARG:HG2	18:8h:110:ILE:HD12	1.92	0.51
17:9a:86:ARG:HA	17:9a:86:ARG:HE	1.75	0.51
18:9b:9:ILE:HD11	18:9b:153:LEU:HD23	1.93	0.51
18:9f:70:LEU:HD12	18:9f:99:ALA:HB2	1.92	0.51
17:Aa:67:ASP:O	17:Aa:92:PHE:HA	2.10	0.51
17:Aa:311:LEU:HD23	17:Aa:342:VAL:HG21	1.93	0.51
17:Ag:139:LEU:HD12	17:Ag:170:VAL:HG22	1.91	0.51
18:Ah:269:LEU:HD22	18:Ah:303:VAL:HB	1.93	0.51
18:Cb:21:TRP:CZ2	18:Cb:65:CYS:HB2	2.45	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ce:184:ASN:OD1	17:Ce:398:TYR:OH	2.22	0.51
17:Da:10:GLY:O	17:Da:14:ASN:ND2	2.43	0.51
18:Dd:101:ASN:HA	18:Dd:144:GLY:H	1.75	0.51
17:Dg:139:LEU:HG	17:Dg:168:SER:HB3	1.91	0.51
1:0A:121:ASN:ND2	1:0D:117:VAL:HG23	2.25	0.51
1:0B:162:HIS:HB3	1:0C:163:HIS:CE1	2.45	0.51
3:0J:161:LEU:HD11	17:Bc:391:ARG:HH12	1.74	0.51
7:0S:74:THR:HB	7:0S:104:VAL:HB	1.92	0.51
8:0T:79:UNK:O	17:De:306:ARG:HD3	2.10	0.51
12:0Y:45:ASN:HB3	18:9h:431:ASP:OD1	2.11	0.51
12:0Y:123:ARG:O	12:0Y:127:MET:HG2	2.11	0.51
12:0Z:67:ALA:O	12:0Z:71:LEU:HB2	2.11	0.51
12:0Z:215:VAL:HG13	12:0Z:240:VAL:HG22	1.92	0.51
12:1A:136:HIS:CE1	12:1A:180:PRO:HB3	2.46	0.51
17:1c:54:ALA:HB3	17:1c:58:ARG:HB3	1.92	0.51
18:1d:217:LEU:HD21	18:1d:368:LEU:HD23	1.93	0.51
18:1h:27:GLU:OE2	18:1h:320:ARG:NH2	2.39	0.51
17:2e:373:ALA:O	17:2e:376:GLU:HG2	2.10	0.51
17:3c:220:PRO:HG2	18:3d:326:LYS:HG3	1.93	0.51
17:3c:417:ASP:O	17:3c:421:GLU:HG2	2.10	0.51
18:3d:317:LEU:HD23	18:3d:377:MET:HB2	1.92	0.51
18:4f:21:TRP:CZ2	18:4f:65:CYS:HB2	2.46	0.51
18:4f:72:PRO:HB3	17:4g:1:MET:HE2	1.92	0.51
18:4f:104:ALA:HB2	18:4f:413:MET:HG3	1.93	0.51
18:5b:206:ASN:OD1	21:5b:501:GTP:N2	2.42	0.51
18:5d:70:LEU:HA	18:5d:95:GLY:HA3	1.92	0.51
18:6b:9:ILE:HD11	18:6b:153:LEU:HD23	1.92	0.51
18:6b:145:THR:OG1	21:6b:501:GTP:O3B	2.27	0.51
17:6e:27:GLU:OE2	17:6e:318:ARG:NH2	2.44	0.51
18:7d:9:ILE:HD11	18:7d:153:LEU:HD23	1.93	0.51
17:8a:267:MET:HE1	17:8a:305:PRO:HG3	1.93	0.51
18:9h:144:GLY:N	21:9h:501:GTP:O2G	2.44	0.51
18:Ab:265:ILE:HG22	18:Ab:380:ASN:HD21	1.75	0.51
18:Ad:141:VAL:HG13	18:Ad:190:SER:OG	2.10	0.51
18:Ad:336:LYS:NZ	18:Ad:348:PRO:O	2.44	0.51
18:Bb:267:PHE:HB2	18:Bb:384:ILE:HD12	1.92	0.51
18:Bd:316:CYS:SG	18:Bd:318:MET:HE3	2.51	0.51
21:Db:501:GTP:O1B	17:Dc:252:LYS:NZ	2.37	0.51
17:De:198:GLU:HG3	17:De:266:PHE:CE2	2.42	0.51
18:Dh:293:ASN:O	18:Dh:297:GLU:HG2	2.11	0.51
1:0D:294:LEU:HD13	1:0D:421:LEU:HD12	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0M:156:LEU:O	17:Ce:43:GLN:NE2	2.44	0.51
5:0N:142:HIS:ND1	5:0N:144:MET:HB2	2.26	0.51
6:0P:53:ASN:HB3	17:1g:227:HIS:NE2	2.26	0.51
13:1B:1313:VAL:HA	13:1B:1750:TYR:CE1	2.43	0.51
17:1c:207:LEU:HD11	17:1c:229:ILE:HD11	1.91	0.51
18:1d:21:TRP:CZ2	18:1d:65:CYS:HB2	2.45	0.51
18:1f:317:LEU:O	18:1f:318:MET:HE2	2.10	0.51
17:1g:10:GLY:O	17:1g:14:ASN:ND2	2.44	0.51
17:2e:330:MET:HE1	17:2e:351:SER:HB2	1.92	0.51
17:3g:220:PRO:HD2	18:3h:326:LYS:CD	2.40	0.51
17:3g:321:MET:HE3	17:3g:353:VAL:HG13	1.93	0.51
17:4a:380:ARG:HA	17:4a:383:GLU:HG2	1.93	0.51
17:4e:159:TYR:HB3	17:4e:162:ARG:HG3	1.93	0.51
17:4g:170:VAL:N	17:4g:202:LEU:O	2.44	0.51
17:5a:27:GLU:OE2	17:5a:318:ARG:NH2	2.44	0.51
17:5a:386:THR:O	17:5a:390:ARG:HG2	2.11	0.51
18:5d:259:LEU:HD22	18:5d:268:MET:HE1	1.91	0.51
18:5f:222:PRO:HD2	17:5g:324:LYS:HG2	1.92	0.51
17:6e:140:GLY:HA2	17:6e:184:ASN:HB2	1.93	0.51
17:7c:373:ALA:O	17:7c:376:GLU:HG2	2.11	0.51
17:7e:139:LEU:HD12	17:7e:170:VAL:HG22	1.93	0.51
17:7e:161:ASP:N	17:7e:161:ASP:OD1	2.43	0.51
17:7g:83:GLN:O	17:8g:281:TYR:OH	2.28	0.51
17:8c:145:SER:HB3	17:8c:188:SER:OG	2.11	0.51
17:8c:161:ASP:OD1	17:8c:161:ASP:N	2.44	0.51
17:9a:68:LEU:HD22	17:9a:108:GLU:HG2	1.92	0.51
17:9c:337:ASN:HB3	17:9c:340:TYR:HD2	1.75	0.51
17:Aa:267:MET:HG3	17:Aa:374:ILE:HD11	1.91	0.51
18:Ad:101:ASN:HA	18:Ad:144:GLY:H	1.75	0.51
18:Ad:316:CYS:HB3	18:Ad:378:ILE:HG23	1.92	0.51
18:Af:255:PHE:O	18:Af:259:LEU:HB2	2.11	0.51
18:Ah:101:ASN:HA	18:Ah:144:GLY:H	1.76	0.51
18:Bd:251:ASP:HB2	18:Bd:254:GLU:HG3	1.92	0.51
17:Ca:330:MET:HG3	17:Ca:349:VAL:HG11	1.93	0.51
17:Cg:32:PRO:HB2	17:Cg:83:GLN:HE22	1.76	0.51
18:Ch:277:SER:H	18:Ch:280:LYS:NZ	2.09	0.51
1:0B:135:LEU:CB	1:0C:135:LEU:HB3	2.41	0.51
1:0C:537:HIS:HB3	1:0C:556:ASP:HB2	1.93	0.51
3:0I:577:ARG:HG3	3:0I:578:PRO:HD3	1.93	0.51
5:0M:292:ASN:OD1	17:Cg:320:ARG:HB2	2.11	0.51
5:0M:303:ARG:HB2	17:Cg:39:ASP:C	2.36	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0Q:8:ILE:HD11	7:0Q:586:CYS:HB3	1.93	0.51
7:0Q:298:ALA:HB1	7:0Q:310:ARG:HG3	1.93	0.51
13:1B:1249:LEU:HD11	13:1B:1255:CYS:HB2	1.92	0.51
13:1C:1130:LEU:HB2	13:1C:1132:LEU:HG	1.93	0.51
13:1C:1747:ALA:HB3	13:1C:1749:ARG:HG2	1.91	0.51
17:1e:215:LEU:HB3	17:1e:217:LEU:HD13	1.92	0.51
17:1g:267:MET:HE1	17:1g:373:ALA:HB3	1.93	0.51
17:2a:324:LYS:HG2	18:2h:222:PRO:HD2	1.93	0.51
17:2e:73:MET:HG3	17:2e:77:ARG:HH22	1.76	0.51
17:2g:337:ASN:HB3	17:2g:340:TYR:HD2	1.76	0.51
18:2h:4:VAL:HG22	18:2h:133:GLN:HB2	1.92	0.51
17:3e:113:ILE:HG13	17:3e:117:LEU:HD23	1.92	0.51
18:3f:298:PRO:HB3	18:3f:307:PRO:HD2	1.93	0.51
18:4b:138:PHE:CD1	18:4b:169:PHE:HB2	2.46	0.51
18:4b:201:ALA:O	18:4b:267:PHE:HA	2.11	0.51
17:4c:140:GLY:HA2	17:4c:184:ASN:HB2	1.91	0.51
18:4d:408:TYR:O	18:4d:413:MET:HB2	2.11	0.51
17:4e:140:GLY:HA2	17:4e:184:ASN:HB2	1.92	0.51
18:4f:329:ASN:HA	18:4f:332:VAL:HG12	1.93	0.51
17:5c:27:GLU:OE2	17:5c:318:ARG:NH2	2.43	0.51
18:5h:336:LYS:NZ	18:5h:348:PRO:O	2.44	0.51
17:6e:113:ILE:HG13	17:6e:117:LEU:HD23	1.93	0.51
18:6f:318:MET:HE1	18:6f:378:ILE:HG22	1.92	0.51
18:7b:137:VAL:HG21	18:7b:154:LEU:HD21	1.93	0.51
18:7b:386:GLU:O	18:7b:390:ARG:HG3	2.11	0.51
17:8a:12:CYS:HB2	20:8a:501:GDP:C8	2.46	0.51
17:8c:113:ILE:HG13	17:8c:117:LEU:HD23	1.91	0.51
17:8c:174:LYS:NZ	18:8d:333:ALA:HB1	2.26	0.51
17:8e:260:PHE:HB2	17:8e:263:LEU:HD13	1.93	0.51
18:8f:119:LEU:O	18:8f:123:ARG:HG2	2.11	0.51
18:8f:122:ILE:HG22	18:8f:161:TYR:OH	2.10	0.51
18:8f:318:MET:O	18:8f:375:VAL:HA	2.11	0.51
18:8h:217:LEU:HD21	18:8h:368:LEU:HD23	1.93	0.51
17:9a:72:THR:O	17:9a:75:SER:OG	2.28	0.51
18:9h:203:MET:HE3	18:9h:267:PHE:HD1	1.75	0.51
17:Aa:140:GLY:HA2	17:Aa:184:ASN:HB2	1.93	0.51
17:Aa:341:PHE:HB3	17:Aa:348:ASN:ND2	2.26	0.51
18:Ad:360:PRO:HG3	18:Ad:374:ALA:HB2	1.93	0.51
17:Ba:113:ILE:HG13	17:Ba:117:LEU:HD23	1.91	0.51
17:Ba:318:ARG:HB3	17:Ba:357:PRO:HA	1.91	0.51
17:Bg:178:THR:OG1	17:Bg:181:GLU:HG3	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Bh:360:PRO:HG3	18:Bh:374:ALA:HB2	1.93	0.51
18:Cb:270:SER:H	18:Cb:301:MET:HE1	1.76	0.51
17:Cc:290:THR:HA	17:Cc:293:MET:HE2	1.91	0.51
17:Ce:73:MET:HA	17:Ce:76:VAL:HB	1.92	0.51
17:Ce:89:ASN:ND2	17:Ce:123:GLU:OE2	2.37	0.51
17:Ce:138:SER:OG	20:Ce:501:GDP:O1A	2.29	0.51
18:Ch:4:VAL:HG22	18:Ch:133:GLN:HB2	1.93	0.51
1:0C:410:LYS:HG2	17:De:410:GLU:HB2	1.92	0.51
3:0J:450:THR:O	13:1B:1383:GLU:HG2	2.11	0.51
5:0M:94:LEU:HD13	5:0M:143:TYR:HB2	1.92	0.51
10:0V:156:UNK:O	17:2a:125:GLU:HB2	2.10	0.51
12:1A:220:VAL:O	12:1A:235:SER:HB2	2.11	0.51
13:1B:1146:THR:HG22	13:1B:1150:LEU:HD13	1.93	0.51
14:1D:506:MET:HG3	14:1D:510:TYR:HE1	1.75	0.51
17:1e:278:SER:HA	17:1e:281:TYR:HD2	1.76	0.51
17:1e:375:GLN:NE2	17:1e:423:GLN:OE1	2.35	0.51
18:1h:324:VAL:HG13	18:1h:327:ASP:H	1.74	0.51
18:2b:2:ARG:HB3	18:2b:242:LEU:HD12	1.92	0.51
17:2c:49:VAL:O	17:2c:62:ARG:NH1	2.43	0.51
17:2e:213:ARG:HH21	17:2e:297:LYS:HD2	1.76	0.51
18:3b:11:GLN:N	21:3b:501:GTP:O1A	2.44	0.51
18:3b:255:PHE:HE2	18:3b:378:ILE:HG21	1.76	0.51
17:3c:10:GLY:O	17:3c:14:ASN:ND2	2.44	0.51
17:3c:138:SER:OG	20:3c:501:GDP:O1A	2.28	0.51
17:3c:202:LEU:HD13	17:3c:229:ILE:HG12	1.93	0.51
18:3f:132:LEU:HB3	18:3f:164:LYS:HE2	1.93	0.51
17:3g:238:CYS:SG	17:3g:241:ARG:NH2	2.84	0.51
17:4c:139:LEU:HG	17:4c:168:SER:HB3	1.93	0.51
17:5c:215:LEU:HB3	17:5c:217:LEU:HD13	1.92	0.51
17:5e:99:ASN:HA	17:5e:142:GLY:H	1.75	0.51
17:5g:167:PHE:CD2	17:5g:233:MET:HE2	2.45	0.51
17:6c:330:MET:HA	17:6c:330:MET:HE3	1.92	0.51
17:6e:98:GLY:HA2	18:6f:254:GLU:CD	2.36	0.51
17:7a:386:THR:O	17:7a:390:ARG:HG2	2.11	0.51
17:8a:386:THR:O	17:8a:390:ARG:HG2	2.12	0.51
18:8f:147:SER:HB2	18:8f:190:SER:HB3	1.92	0.51
17:8g:198:GLU:HG3	17:8g:266:PHE:HE2	1.75	0.51
18:9d:108:TYR:HA	18:9d:112:LYS:NZ	2.26	0.51
17:9e:178:THR:OG1	17:9e:181:GLU:HG3	2.11	0.51
17:9e:396:HIS:CE1	18:9f:263:PRO:HD3	2.46	0.51
17:Ca:161:ASP:N	17:Ca:161:ASP:OD1	2.43	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Cc:299:MET:HE1	17:Cc:367:PHE:HD2	1.76	0.51
17:Ce:161:ASP:OD1	17:Ce:161:ASP:N	2.43	0.51
17:Cg:173:PRO:HB3	17:Cg:380:ARG:CZ	2.41	0.51
18:Ch:211:ASP:O	18:Ch:215:ARG:HG2	2.11	0.51
1:0C:329:VAL:HA	1:0C:345:SER:HA	1.93	0.50
1:0C:438:ASP:HB3	1:0C:441:ALA:HB3	1.93	0.50
5:0M:743:HIS:CE1	18:Bf:54:SER:HB2	2.45	0.50
12:0Y:300:LEU:HA	12:0Y:306:THR:HG21	1.93	0.50
12:0Z:355:GLU:HA	12:0Z:358:ILE:HG22	1.93	0.50
13:1B:1193:ASN:ND2	13:1B:1249:LEU:O	2.44	0.50
13:1B:1224:ARG:HD3	13:1B:1229:ARG:HH21	1.76	0.50
13:1C:1116:VAL:HG22	13:1C:1189:VAL:HG22	1.92	0.50
13:1C:1515:VAL:HG12	13:1C:1595:VAL:HA	1.93	0.50
14:1E:1025:SER:HA	14:1E:1028:LEU:HD12	1.92	0.50
14:1G:502:SER:OG	14:1G:505:GLU:OE1	2.28	0.50
17:1c:161:ASP:OD1	17:1c:161:ASP:N	2.43	0.50
18:1f:206:ASN:OD1	21:1f:501:GTP:N2	2.44	0.50
17:2c:317:PHE:CD2	17:2c:321:MET:HE1	2.45	0.50
18:2d:268:MET:HE1	18:2d:380:ASN:HB2	1.93	0.50
17:2e:86:ARG:HG2	17:2e:88:ASP:H	1.76	0.50
17:2g:228:LEU:HB3	17:2g:300:MET:HE2	1.94	0.50
18:2h:2:ARG:HB3	18:2h:242:LEU:HD12	1.92	0.50
17:3c:52:ASN:OD1	17:3c:62:ARG:NH2	2.45	0.50
17:3c:232:VAL:HG21	17:3c:300:MET:HE1	1.92	0.50
17:3g:30:ILE:HD11	17:3g:47:ILE:HD11	1.92	0.50
17:5e:272:PRO:HD3	17:5e:364:SER:HA	1.93	0.50
17:5g:67:ASP:O	17:5g:92:PHE:HA	2.11	0.50
17:5g:417:ASP:O	17:5g:421:GLU:HG2	2.11	0.50
17:6a:12:CYS:HB2	20:6a:501:GDP:C8	2.46	0.50
17:7c:73:MET:HE1	17:7c:91:VAL:O	2.11	0.50
17:7e:213:ARG:HH21	17:7e:297:LYS:HD2	1.76	0.50
18:7f:88:HIS:CD2	18:8f:283:HIS:HB3	2.46	0.50
17:8c:98:GLY:HA2	18:8d:254:GLU:HG2	1.93	0.50
18:9d:217:LEU:HG	18:9d:275:ILE:HG22	1.92	0.50
17:Aa:10:GLY:O	17:Aa:14:ASN:ND2	2.43	0.50
17:Aa:139:LEU:HD12	17:Aa:170:VAL:HG22	1.94	0.50
17:Aa:198:GLU:HG3	17:Aa:266:PHE:CE2	2.46	0.50
17:Aa:337:ASN:HB3	17:Aa:340:TYR:HD2	1.75	0.50
17:Ae:207:LEU:HB3	17:Ae:225:LEU:HD22	1.92	0.50
17:Ag:233:MET:O	17:Ag:236:ILE:HG22	2.11	0.50
17:Bc:388:MET:HG2	18:Bd:348:PRO:HD2	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Bf:9:ILE:HD13	18:Bf:150:GLY:HA2	1.93	0.50
18:Bf:174:SER:HB3	18:Bf:207:GLU:HB2	1.91	0.50
18:Bf:237:SER:HA	18:Bf:320:ARG:HD2	1.93	0.50
18:Bf:250:VAL:HA	18:Bf:254:GLU:OE2	2.11	0.50
17:Ce:145:SER:HB3	17:Ce:188:SER:OG	2.10	0.50
18:Ch:144:GLY:N	21:Ch:501:GTP:O2G	2.44	0.50
18:Df:234:VAL:HG21	18:Df:302:MET:CE	2.39	0.50
1:0B:412:ALA:C	1:0B:429:SER:HG	2.19	0.50
3:0J:90:SER:N	3:0J:93:THR:HG1	2.09	0.50
4:0K:86:SER:O	4:0K:90:ARG:HG3	2.11	0.50
5:0N:111:ARG:HG3	5:0N:130:VAL:HG21	1.93	0.50
12:1A:65:GLU:OE2	12:1A:116:ARG:NH1	2.43	0.50
12:1A:85:GLY:HA2	12:1A:305:LYS:H	1.76	0.50
14:1D:992:LEU:HD12	14:1D:1011:VAL:HG13	1.93	0.50
14:1D:1006:ARG:HA	14:1D:1009:GLN:OE1	2.11	0.50
14:1G:549:ARG:HG2	14:1G:553:LEU:HG	1.93	0.50
18:1d:180:ALA:HB3	18:1d:183:GLU:HB2	1.93	0.50
17:1g:113:ILE:HG13	17:1g:117:LEU:HD23	1.93	0.50
18:2b:70:LEU:HD12	18:2b:99:ALA:HB2	1.93	0.50
17:3c:99:ASN:HD22	17:3c:141:GLY:HA2	1.76	0.50
18:3f:217:LEU:HD21	18:3f:368:LEU:HD23	1.93	0.50
17:3g:268:VAL:HG23	17:3g:300:MET:HE3	1.93	0.50
17:5a:269:GLY:HA2	17:5a:300:MET:HE3	1.93	0.50
18:5h:201:ALA:O	18:5h:267:PHE:HA	2.11	0.50
18:6d:30:ILE:HA	18:6d:36:MET:HB3	1.92	0.50
18:6d:313:MET:HE1	18:6d:435:VAL:HG23	1.93	0.50
18:6h:2:ARG:HB3	18:6h:242:LEU:HD12	1.92	0.50
18:7b:390:ARG:HA	18:7b:393:HIS:CD2	2.47	0.50
18:7h:251:ASP:HB2	18:7h:254:GLU:OE1	2.11	0.50
17:8c:64:ILE:HD11	17:8c:123:GLU:HG3	1.93	0.50
17:8e:417:ASP:O	17:8e:421:GLU:HG2	2.11	0.50
18:9h:311:LYS:NZ	18:9h:436:GLY:O	2.43	0.50
17:Ac:330:MET:HB3	17:Ac:349:VAL:HG11	1.91	0.50
18:Ad:319:TYR:HB3	18:Ad:323:VAL:HG21	1.93	0.50
17:Ba:282:ARG:NH1	17:Ba:292:GLN:OE1	2.42	0.50
18:Bd:222:PRO:HD2	17:Be:324:LYS:HG2	1.93	0.50
17:Bg:377:MET:HG3	17:Bg:380:ARG:NH2	2.26	0.50
17:Da:161:ASP:OD1	17:Da:161:ASP:N	2.43	0.50
17:Da:317:PHE:CD2	17:Da:321:MET:HE1	2.45	0.50
18:Db:70:LEU:HD12	18:Db:99:ALA:HB2	1.92	0.50
17:De:321:MET:SD	17:De:363:MET:HE3	2.51	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Dg:31:ASP:OD2	17:Dg:33:THR:OG1	2.26	0.50
1:0B:368:LYS:NZ	2:0F:40:ASP:OD2	2.39	0.50
2:0G:65:ARG:NH2	2:0G:129:GLY:O	2.37	0.50
3:0J:196:ARG:HH22	3:0J:215:TRP:HZ3	1.58	0.50
3:0J:302:LEU:O	18:Bd:430:LYS:NZ	2.38	0.50
3:0J:457:TRP:HE1	3:0J:483:GLN:HG2	1.76	0.50
7:0S:212:LEU:HB3	7:0S:224:VAL:HG22	1.94	0.50
14:1D:506:MET:HG3	14:1D:510:TYR:CE1	2.46	0.50
14:1G:598:GLY:HA2	14:1G:601:ARG:HG3	1.92	0.50
18:3b:324:VAL:HG23	18:3b:327:ASP:H	1.76	0.50
17:3e:6:HIS:HE1	17:3e:233:MET:HE1	1.76	0.50
17:3e:10:GLY:O	17:3e:14:ASN:ND2	2.44	0.50
18:3f:147:SER:HB2	18:3f:190:SER:HB3	1.92	0.50
17:5a:184:ASN:OD1	17:5a:398:TYR:OH	2.21	0.50
17:5c:49:VAL:O	17:5c:62:ARG:NH1	2.44	0.50
18:5d:268:MET:HE3	18:5d:378:ILE:HG12	1.94	0.50
18:6b:268:MET:HE3	18:6b:378:ILE:HG12	1.93	0.50
18:6h:312:TYR:HA	18:6h:381:SER:HB2	1.94	0.50
17:7a:31:ASP:OD2	17:7a:33:THR:OG1	2.28	0.50
18:7d:244:PHE:O	18:7d:356:ASN:ND2	2.44	0.50
18:8f:250:VAL:HG11	18:8f:318:MET:HE1	1.94	0.50
18:8f:312:TYR:O	18:8f:343:PHE:HA	2.11	0.50
17:8g:311:LEU:HD23	17:8g:342:VAL:HG21	1.93	0.50
18:9d:112:LYS:HD3	18:9d:112:LYS:N	2.26	0.50
18:9h:35:GLN:HA	18:9h:61:HIS:HD2	1.76	0.50
18:9h:174:SER:HB3	18:9h:207:GLU:HB2	1.92	0.50
17:Ac:212:PHE:HZ	18:Ad:326:LYS:HB2	1.77	0.50
17:Ag:41:ASP:OD1	17:Ag:42:LEU:N	2.44	0.50
17:Ba:198:GLU:HG3	17:Ba:266:PHE:CE2	2.46	0.50
17:Bc:10:GLY:HA2	17:Bc:143:THR:HG23	1.93	0.50
17:Bg:337:ASN:HB3	17:Bg:340:TYR:HD2	1.76	0.50
18:Bh:4:VAL:HG22	18:Bh:133:GLN:HB2	1.92	0.50
18:Bh:210:TYR:CD1	18:Bh:222:PRO:HB2	2.46	0.50
18:Cb:88:HIS:HB3	18:Cb:91:GLN:HB2	1.93	0.50
17:Dc:139:LEU:HG	17:Dc:168:SER:HB3	1.91	0.50
17:De:173:PRO:HB3	17:De:380:ARG:CZ	2.40	0.50
1:0A:321:THR:HG22	1:0A:603:ARG:HG2	1.92	0.50
1:0A:438:ASP:O	1:0A:442:GLY:N	2.41	0.50
1:0C:470:ALA:HB2	1:0C:500:VAL:HB	1.93	0.50
2:0F:78:PHE:HD1	2:0F:110:PHE:HE2	1.57	0.50
3:0I:545:ARG:HE	3:0I:548:LEU:HD12	1.76	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:0Z:351:LEU:O	12:0Z:355:GLU:HG2	2.11	0.50
13:1B:1487:MET:O	13:1B:1519:LYS:HE3	2.10	0.50
14:1G:680:GLU:O	14:1G:778:ARG:NH2	2.42	0.50
17:1c:322:SER:OG	17:1c:325:GLU:HB2	2.12	0.50
17:1g:145:SER:HB3	17:1g:188:SER:OG	2.11	0.50
17:2a:282:ARG:NH1	17:2a:292:GLN:OE1	2.36	0.50
18:3d:222:PRO:HD2	17:3e:324:LYS:HG2	1.93	0.50
18:3h:88:HIS:CD2	18:4h:283:HIS:HD2	2.29	0.50
17:4a:49:VAL:O	17:4a:62:ARG:NH1	2.43	0.50
17:6a:6:HIS:HE1	17:6a:233:MET:HE1	1.76	0.50
18:6b:2:ARG:HA	18:6b:133:GLN:HE22	1.77	0.50
18:6f:76:ASP:OD2	17:6g:46:ARG:NH2	2.44	0.50
17:8a:7:ILE:HB	17:8a:135:VAL:HG22	1.93	0.50
17:8a:299:MET:N	17:8a:299:MET:SD	2.85	0.50
18:8f:16:VAL:HA	18:8f:228:ASN:HB3	1.94	0.50
18:9d:141:VAL:HG13	18:9d:190:SER:OG	2.11	0.50
18:9d:202:VAL:C	18:9d:203:MET:HE2	2.37	0.50
17:Ba:170:VAL:N	17:Ba:202:LEU:O	2.43	0.50
18:Bb:180:ALA:HB3	18:Bb:183:GLU:HB2	1.94	0.50
17:Bg:139:LEU:HG	17:Bg:168:SER:HB3	1.92	0.50
18:Bh:147:SER:HB2	18:Bh:190:SER:HB3	1.93	0.50
17:Ca:46:ARG:NH2	18:Ch:76:ASP:OD2	2.44	0.50
18:Cf:141:VAL:HG13	18:Cf:190:SER:OG	2.11	0.50
18:Ch:212:ILE:HG12	18:Ch:215:ARG:NH2	2.26	0.50
18:Ch:277:SER:H	18:Ch:280:LYS:HZ1	1.57	0.50
17:Da:272:PRO:HD3	17:Da:364:SER:HA	1.93	0.50
17:Dg:272:PRO:HD3	17:Dg:364:SER:HA	1.93	0.50
3:0I:447:SER:HB3	3:0I:487:LEU:HD21	1.93	0.50
3:0J:267:PRO:HG3	3:0J:323:VAL:HG13	1.94	0.50
12:0X:8:VAL:HG13	12:0X:308:MET:HE2	1.93	0.50
12:0X:84:ASN:HB2	12:0X:304:CYS:HA	1.93	0.50
12:1A:287:PHE:CE1	12:1A:297:ARG:HA	2.47	0.50
13:1B:1521:ARG:NH2	13:1B:1522:TYR:OH	2.44	0.50
18:1b:216:SER:HB3	18:1b:275:ILE:O	2.11	0.50
17:1c:272:PRO:HD3	17:1c:364:SER:HA	1.93	0.50
17:2a:274:THR:HG22	17:2a:282:ARG:HD3	1.94	0.50
18:2b:9:ILE:HD11	18:2b:153:LEU:HD23	1.94	0.50
18:2d:174:SER:HB2	18:2d:177:VAL:O	2.11	0.50
18:2d:265:ILE:HG21	18:2d:313:MET:HE1	1.92	0.50
17:2e:417:ASP:O	17:2e:421:GLU:HG2	2.11	0.50
18:4b:174:SER:HB3	18:4b:207:GLU:HB2	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4g:49:VAL:O	17:4g:62:ARG:NH1	2.44	0.50
17:6a:274:THR:HG22	17:6a:282:ARG:HD3	1.92	0.50
17:6a:375:GLN:HG3	17:6a:419:VAL:HG13	1.92	0.50
18:6h:269:LEU:HB3	18:6h:301:MET:SD	2.52	0.50
17:8a:140:GLY:HA2	17:8a:184:ASN:HB2	1.93	0.50
17:8e:220:PRO:HD2	18:8f:326:LYS:HD3	1.92	0.50
17:8g:161:ASP:OD1	17:8g:161:ASP:N	2.44	0.50
17:9a:67:ASP:O	17:9a:92:PHE:HA	2.10	0.50
18:9b:137:VAL:HG21	18:9b:154:LEU:HD21	1.92	0.50
17:9c:177:ASP:OD1	20:9c:501:GDP:O3'	2.29	0.50
18:9f:431:ASP:O	18:9f:435:VAL:HG22	2.12	0.50
18:Ab:237:SER:HA	18:Ab:320:ARG:HD2	1.92	0.50
17:Ac:198:GLU:HG3	17:Ac:266:PHE:CE2	2.45	0.50
17:Ae:140:GLY:HA2	17:Ae:184:ASN:HB2	1.94	0.50
18:Ah:385:GLY:HA2	18:Ah:388:PHE:HD2	1.76	0.50
18:Bb:222:PRO:HD2	17:Bc:324:LYS:HG2	1.93	0.50
18:Cf:223:THR:OG1	17:Cg:245:GLN:OE1	2.29	0.50
18:Ch:169:PHE:HZ	18:Ch:238:LEU:HD13	1.76	0.50
18:Ch:390:ARG:HA	18:Ch:393:HIS:CD2	2.46	0.50
18:Df:2:ARG:HB3	18:Df:242:LEU:HD12	1.93	0.50
18:Dh:217:LEU:HD21	18:Dh:368:LEU:HD23	1.93	0.50
1:0A:115:PRO:HB2	1:0A:118:TYR:HD1	1.76	0.50
3:0I:442:SER:HA	3:0I:496:ALA:HA	1.93	0.50
4:0K:137:LYS:NZ	13:1B:1219:GLU:HG3	2.25	0.50
5:0M:161:LEU:O	17:Ce:81:TYR:OH	2.16	0.50
7:0Q:465:ILE:HD12	7:0Q:478:ALA:HB1	1.93	0.50
12:0X:75:VAL:HG21	12:0X:87:ILE:HD11	1.93	0.50
12:0Z:75:VAL:HG21	12:0Z:87:ILE:HD11	1.94	0.50
14:1F:929:ARG:HE	14:1F:960:TRP:HE1	1.59	0.50
17:1a:139:LEU:HG	17:1a:168:SER:HB3	1.93	0.50
17:1g:49:VAL:O	17:1g:62:ARG:NH1	2.44	0.50
18:1h:70:LEU:HD12	18:1h:99:ALA:HB2	1.93	0.50
17:4c:161:ASP:OD1	17:4c:161:ASP:N	2.44	0.50
17:5c:326:VAL:O	17:5c:330:MET:HG2	2.12	0.50
18:5d:30:ILE:HA	18:5d:36:MET:HB3	1.93	0.50
18:5h:324:VAL:HG13	18:5h:327:ASP:H	1.77	0.50
18:6b:398:MET:HE1	17:6c:345:ILE:HA	1.93	0.50
17:6c:99:ASN:HA	17:6c:142:GLY:H	1.77	0.50
17:6c:145:SER:HB3	17:6c:188:SER:OG	2.11	0.50
18:6d:216:SER:HB3	18:6d:275:ILE:O	2.12	0.50
17:9a:344:TRP:HB2	18:9h:401:LYS:HE3	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9b:12:ALA:HB3	18:9b:140:ALA:HB2	1.92	0.50
18:9d:401:LYS:HE2	17:9e:344:TRP:CE2	2.47	0.50
17:Ae:60:VAL:HG21	17:Ae:86:ARG:HH12	1.77	0.50
17:Bc:99:ASN:HA	17:Bc:142:GLY:H	1.76	0.50
17:Be:173:PRO:HB3	17:Be:380:ARG:CZ	2.42	0.50
18:Cb:1:MET:HE2	18:Cb:1:MET:H1	1.77	0.50
18:Ch:16:VAL:HA	18:Ch:228:ASN:HB3	1.93	0.50
17:Dc:72:THR:O	17:Dc:75:SER:OG	2.24	0.50
18:Df:316:CYS:HB3	18:Df:378:ILE:HG23	1.94	0.50
1:0D:329:VAL:HA	1:0D:345:SER:HA	1.93	0.50
3:0I:146:LYS:HZ2	17:Bg:412:GLU:HB3	1.76	0.50
3:0J:172:LEU:HD12	3:0J:173:ALA:H	1.77	0.50
3:0J:176:ARG:NH2	18:Bd:431:ASP:OD1	2.45	0.50
3:0J:195:PRO:HD2	3:0J:326:TYR:HE1	1.76	0.50
4:0K:196:ILE:HG22	18:Af:156:ARG:NH2	2.27	0.50
6:0P:135:ARG:HG2	6:0P:135:ARG:HH11	1.76	0.50
13:1C:1311:GLU:HB2	13:1C:1323:GLN:HE22	1.75	0.50
13:1C:1524:LEU:HB3	13:1C:1617:VAL:HG13	1.94	0.50
14:1D:914:ALA:HB1	14:1D:924:TRP:CE2	2.47	0.50
14:1F:667:ALA:HA	14:1F:670:TYR:HD1	1.76	0.50
17:1a:161:ASP:OD1	17:1a:161:ASP:N	2.44	0.50
18:1b:202:VAL:C	18:1b:203:MET:HE2	2.37	0.50
17:1e:377:MET:HG3	17:1e:380:ARG:HH22	1.77	0.50
18:1f:316:CYS:SG	18:1f:318:MET:HE3	2.52	0.50
17:2a:386:THR:O	17:2a:390:ARG:HG2	2.12	0.50
17:3a:145:SER:HB3	17:3a:188:SER:OG	2.12	0.50
17:3a:245:GLN:OE1	18:3h:223:THR:OG1	2.30	0.50
18:3d:306:ASP:CG	18:3d:308:ARG:HE	2.20	0.50
18:3d:326:LYS:HD3	18:3d:326:LYS:N	2.26	0.50
17:3g:375:GLN:HG3	17:3g:419:VAL:HG13	1.92	0.50
17:4g:253:LEU:HD11	17:4g:316:LEU:HD21	1.94	0.50
17:5a:215:LEU:HB3	17:5a:217:LEU:HD13	1.94	0.50
17:5c:282:ARG:NH1	17:5c:292:GLN:OE1	2.31	0.50
18:5h:180:ALA:HB3	18:5h:183:GLU:HB2	1.93	0.50
18:6b:96:LYS:HE3	17:6c:129:CYS:HB2	1.94	0.50
17:6c:27:GLU:OE2	17:6c:318:ARG:NH2	2.45	0.50
18:6d:5:ILE:HG13	18:6d:132:LEU:HD11	1.93	0.50
17:6e:7:ILE:HD13	17:6e:151:LEU:HD21	1.94	0.50
18:7b:317:LEU:O	18:7b:318:MET:HE2	2.11	0.50
18:7f:132:LEU:HB3	18:7f:164:LYS:HE2	1.94	0.50
18:7h:265:ILE:HG22	18:7h:380:ASN:HD21	1.77	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8c:89:ASN:ND2	17:8c:123:GLU:OE2	2.37	0.50
17:8e:73:MET:HE1	17:8e:77:ARG:HH21	1.77	0.50
17:9a:67:ASP:OD1	17:9a:68:LEU:N	2.43	0.50
18:9f:223:THR:OG1	17:9g:245:GLN:OE1	2.29	0.50
17:9g:64:ILE:HD11	17:9g:123:GLU:HG3	1.94	0.50
18:9h:54:SER:HB3	18:9h:64:ARG:NH2	2.27	0.50
17:Ba:337:ASN:HB3	17:Ba:340:TYR:HD2	1.77	0.50
18:Bd:5:ILE:HG13	18:Bd:132:LEU:HD11	1.92	0.50
17:Be:113:ILE:HG13	17:Be:117:LEU:HD23	1.93	0.50
18:Bh:28:HIS:CE1	18:Bh:243:ARG:HD2	2.47	0.50
17:Ca:308:GLY:HA2	17:Ca:426:GLN:NE2	2.27	0.50
17:Ca:373:ALA:O	17:Ca:376:GLU:HG2	2.11	0.50
18:Cb:9:ILE:HD11	18:Cb:153:LEU:HD23	1.94	0.50
18:Cb:301:MET:HE2	18:Cb:303:VAL:HB	1.93	0.50
17:Ce:198:GLU:HG3	17:Ce:266:PHE:CE2	2.40	0.50
17:Cg:72:THR:O	17:Cg:75:SER:OG	2.23	0.50
18:Db:70:LEU:HA	18:Db:95:GLY:HA3	1.94	0.50
18:Db:386:GLU:O	18:Db:390:ARG:HG3	2.12	0.50
17:De:112:LEU:HD23	17:De:147:MET:HE1	1.93	0.50
17:Dg:130:LEU:O	17:Dg:162:ARG:NE	2.44	0.50
17:Dg:404:ASP:OD2	17:Dg:405:GLU:N	2.45	0.50
1:0C:193:GLU:CD	4:0K:101:MET:HE1	2.37	0.50
1:0D:354:HIS:HB2	1:0D:361:ILE:HD11	1.94	0.50
3:0J:563:ALA:O	3:0J:567:ARG:HG3	2.10	0.50
7:0S:415:HIS:NE2	7:0S:437:SER:OG	2.31	0.50
12:0Z:315:GLU:HB2	12:0Z:318:HIS:HB2	1.93	0.50
13:1C:1241:GLU:OE1	13:1C:1243:ARG:NH1	2.44	0.50
14:1D:397:PRO:HB3	14:1D:686:GLN:HA	1.93	0.50
14:1F:818:MET:C	14:1F:821:PRO:HD2	2.37	0.50
17:1a:136:CYS:HB3	17:1a:233:MET:HE1	1.92	0.50
17:1a:203:ASP:OD2	17:1a:302:ALA:N	2.35	0.50
18:1d:250:VAL:HG22	18:1d:352:LYS:HE3	1.92	0.50
18:2b:9:ILE:HD13	18:2b:150:GLY:HA2	1.93	0.50
17:3a:139:LEU:HG	17:3a:168:SER:HB3	1.93	0.50
18:3f:79:ARG:NH1	18:3f:94:SER:OG	2.44	0.50
17:4g:278:SER:HA	17:4g:281:TYR:HD1	1.77	0.50
17:5c:161:ASP:N	17:5c:161:ASP:OD1	2.44	0.50
18:5d:70:LEU:HD12	18:5d:99:ALA:HB2	1.93	0.50
17:5g:10:GLY:O	17:5g:14:ASN:ND2	2.45	0.50
18:5h:88:HIS:HB3	18:5h:91:GLN:HB2	1.93	0.50
17:6c:198:GLU:HG3	17:6c:266:PHE:CE2	2.45	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:6e:391:ARG:HH22	18:6f:345:ASP:HB2	1.76	0.50
17:7a:252:LYS:NZ	21:7h:501:GTP:O1B	2.38	0.50
17:7e:74:ASP:OD1	17:7e:77:ARG:NH2	2.43	0.50
18:7h:21:TRP:CE3	18:7h:24:TYR:HD2	2.30	0.50
17:8c:373:ALA:O	17:8c:376:GLU:HG2	2.11	0.50
17:9e:330:MET:HE2	17:9e:349:VAL:HG13	1.94	0.50
18:Ab:349:THR:HG23	18:Ab:350:GLY:H	1.77	0.50
17:Ba:378:PHE:CD1	17:Ba:415:MET:HE3	2.40	0.50
17:Bc:193:VAL:CG1	17:Bc:262:ARG:HD2	2.42	0.50
17:Bc:391:ARG:NH2	18:Bd:435:VAL:HA	2.25	0.50
18:Df:216:SER:HB3	18:Df:275:ILE:O	2.12	0.50
17:Dg:268:VAL:HG12	17:Dg:368:ILE:HG12	1.94	0.50
18:Dh:216:SER:HB3	18:Dh:275:ILE:O	2.11	0.50
1:0B:165:ARG:HD2	18:Bd:402:ARG:NH2	2.26	0.50
1:0D:582:GLN:HG2	1:0D:597:GLY:HA2	1.93	0.50
3:0I:164:ARG:HH12	18:Bh:438:GLU:HB3	1.76	0.50
3:0J:564:ALA:O	3:0J:568:VAL:HG23	2.12	0.50
4:0K:80:HIS:O	4:0K:84:THR:HG23	2.12	0.50
4:0L:111:GLY:O	4:0L:115:ASP:HB2	2.11	0.50
5:0N:147:ILE:O	5:0N:151:GLU:HB2	2.12	0.50
7:0S:471:MET:HE2	7:0S:471:MET:N	2.27	0.50
12:0Y:112:GLY:C	12:0Y:115:PRO:HD2	2.37	0.50
12:1A:233:VAL:HG23	12:1A:234:LEU:N	2.26	0.50
14:1G:667:ALA:HB1	14:1G:778:ARG:CZ	2.41	0.50
17:1c:253:LEU:HD11	17:1c:316:LEU:HD21	1.94	0.50
17:2e:145:SER:HB3	17:2e:188:SER:OG	2.12	0.50
17:2e:215:LEU:HB3	17:2e:217:LEU:HD13	1.94	0.50
18:3b:9:ILE:HD11	18:3b:153:LEU:HD23	1.94	0.50
17:3c:385:PHE:HZ	17:3c:408:PHE:HB3	1.76	0.50
18:3d:70:LEU:HD12	18:3d:99:ALA:HB2	1.94	0.50
18:3f:35:GLN:HA	18:3f:61:HIS:HD2	1.77	0.50
17:3g:417:ASP:O	17:3g:421:GLU:HG2	2.12	0.50
17:4g:282:ARG:NH1	17:4g:292:GLN:OE1	2.36	0.50
18:4h:202:VAL:HA	18:4h:268:MET:HB2	1.93	0.50
18:5d:9:ILE:HD13	18:5d:150:GLY:HA2	1.94	0.50
18:5f:234:VAL:O	18:5f:237:SER:OG	2.25	0.50
18:6h:319:TYR:HB3	18:6h:323:VAL:HG21	1.93	0.50
17:7g:294:TRP:CE2	17:7g:333:VAL:HG11	2.46	0.50
18:8d:70:LEU:HD21	18:8d:149:LEU:HD22	1.94	0.50
18:8d:265:ILE:HG22	18:8d:380:ASN:HD21	1.77	0.50
17:9e:311:LEU:HD23	17:9e:342:VAL:HG21	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Aa:238:CYS:SG	17:Aa:241:ARG:NH2	2.85	0.50
17:Ac:139:LEU:HG	17:Ac:168:SER:HB3	1.93	0.50
17:Ba:67:ASP:O	17:Ba:92:PHE:HA	2.12	0.50
18:Bb:9:ILE:HD13	18:Bb:150:GLY:HA2	1.93	0.50
17:Be:377:MET:HG3	17:Be:380:ARG:HH22	1.76	0.50
17:Bg:273:LEU:O	17:Bg:292:GLN:NE2	2.44	0.50
17:Bg:320:ARG:NH1	17:Bg:355:ASP:O	2.45	0.50
17:Cc:72:THR:O	17:Cc:75:SER:OG	2.23	0.50
17:Dc:67:ASP:O	17:Dc:92:PHE:HA	2.12	0.50
17:Dc:203:ASP:OD2	17:Dc:302:ALA:N	2.36	0.50
17:De:121:ARG:O	17:De:125:GLU:HG2	2.11	0.50
17:Dg:207:LEU:HD13	17:Dg:225:LEU:HB3	1.93	0.50
3:0J:580:PRO:O	3:0J:583:SER:OG	2.27	0.49
5:0M:322:LEU:O	5:0M:386:ARG:NH2	2.45	0.49
10:0V:118:UNK:O	17:3g:306:ARG:HD3	2.12	0.49
12:0Y:85:GLY:HA2	12:0Y:305:LYS:H	1.76	0.49
12:0Y:233:VAL:HG23	12:0Y:234:LEU:N	2.27	0.49
13:1B:1146:THR:HG23	13:1B:1149:ARG:HD3	1.94	0.49
13:1B:1241:GLU:OE1	13:1B:1243:ARG:NH1	2.43	0.49
14:1F:807:GLY:HA2	14:1F:813:ALA:HB3	1.94	0.49
14:1G:554:LEU:N	14:1G:576:ARG:HH21	2.09	0.49
14:1G:816:GLU:HA	14:1G:819:LEU:HG	1.94	0.49
17:1c:140:GLY:HA2	17:1c:184:ASN:HB2	1.94	0.49
17:1e:253:LEU:HD11	17:1e:316:LEU:HD21	1.94	0.49
17:2c:337:ASN:HB3	17:2c:340:TYR:HD2	1.76	0.49
17:2g:139:LEU:HG	17:2g:168:SER:HB3	1.93	0.49
18:3h:88:HIS:HB3	18:3h:91:GLN:HB2	1.94	0.49
17:5e:113:ILE:HG13	17:5e:117:LEU:HD23	1.93	0.49
17:5e:177:ASP:O	18:5f:352:LYS:HA	2.12	0.49
18:6f:88:HIS:CD2	18:7f:283:HIS:HB3	2.47	0.49
17:6g:167:PHE:CZ	17:6g:233:MET:HG3	2.47	0.49
17:6g:373:ALA:O	17:6g:376:GLU:HG2	2.12	0.49
17:7a:7:ILE:HD12	17:7a:135:VAL:HG22	1.94	0.49
17:7c:73:MET:SD	17:7c:92:PHE:HB3	2.52	0.49
18:7d:386:GLU:O	18:7d:390:ARG:HG3	2.12	0.49
17:7g:152:ILE:HG23	17:7g:164:MET:HE3	1.92	0.49
18:8d:174:SER:HB2	18:8d:177:VAL:O	2.12	0.49
18:8d:397:LEU:HD23	17:8e:346:PRO:HD3	1.92	0.49
17:9a:136:CYS:HB3	17:9a:233:MET:HE1	1.94	0.49
18:Ab:185:TYR:CE1	18:Ab:398:MET:HE2	2.47	0.49
18:Ah:201:ALA:O	18:Ah:267:PHE:HA	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ba:130:LEU:O	17:Ba:162:ARG:NE	2.45	0.49
17:Ba:272:PRO:HD3	17:Ba:364:SER:HA	1.94	0.49
17:Be:161:ASP:OD1	17:Be:161:ASP:N	2.44	0.49
18:Cb:222:PRO:HD2	17:Cc:324:LYS:HG2	1.94	0.49
18:Cf:2:ARG:HB3	18:Cf:242:LEU:HD12	1.94	0.49
17:Cg:208:TYR:CE1	17:Cg:225:LEU:HD11	2.47	0.49
18:Db:132:LEU:HB3	18:Db:164:LYS:HE2	1.93	0.49
17:Dg:52:ASN:OD1	17:Dg:62:ARG:NH2	2.45	0.49
16:1L:41:UNK:O	16:1L:43:UNK:N	2.45	0.49
1:0B:367:HIS:ND1	1:0B:389:ASP:OD2	2.34	0.49
1:0C:574:LEU:HD13	1:0C:605:TRP:CD2	2.47	0.49
3:0I:580:PRO:O	3:0I:583:SER:OG	2.29	0.49
12:0Y:220:VAL:O	12:0Y:235:SER:HB2	2.12	0.49
12:0Z:101:MET:SD	12:0Z:113:LEU:HD23	2.51	0.49
12:0Z:136:HIS:HB3	12:0Z:178:LEU:HG	1.94	0.49
13:1B:1697:ARG:HG3	18:Bf:163:LYS:HB2	1.93	0.49
13:1B:1747:ALA:HB3	13:1B:1749:ARG:HG2	1.93	0.49
13:1C:1173:MET:HE3	13:1C:1285:LEU:HD22	1.92	0.49
13:1C:1193:ASN:ND2	13:1C:1249:LEU:O	2.45	0.49
14:1D:592:TYR:HA	14:1D:595:ARG:HD2	1.94	0.49
14:1E:493:GLU:HA	14:1E:496:ARG:HH22	1.77	0.49
14:1E:1016:ALA:HB2	14:1E:1028:LEU:HD11	1.92	0.49
16:1M:41:UNK:O	16:1M:43:UNK:N	2.45	0.49
18:1f:210:TYR:CD1	18:1f:227:LEU:HD21	2.47	0.49
18:1h:9:ILE:HD11	18:1h:153:LEU:HD23	1.94	0.49
18:2b:397:LEU:HD23	17:2c:346:PRO:HD3	1.94	0.49
18:2f:9:ILE:HD11	18:2f:153:LEU:HD23	1.94	0.49
18:3d:101:ASN:HA	18:3d:144:GLY:H	1.77	0.49
17:3g:213:ARG:HH21	17:3g:297:LYS:HD2	1.77	0.49
17:4g:99:ASN:HA	17:4g:142:GLY:H	1.77	0.49
17:4g:417:ASP:O	17:4g:421:GLU:HG2	2.13	0.49
17:5a:198:GLU:HG3	17:5a:266:PHE:HE2	1.76	0.49
17:5a:417:ASP:O	17:5a:421:GLU:HG2	2.12	0.49
18:5b:268:MET:HB3	18:5b:378:ILE:HG13	1.94	0.49
18:5d:313:MET:HE1	18:5d:435:VAL:HG23	1.94	0.49
18:6d:102:ASN:ND2	18:6d:411:GLU:OE1	2.46	0.49
17:6g:130:LEU:O	17:6g:162:ARG:NE	2.45	0.49
17:6g:178:THR:OG1	17:6g:181:GLU:HG3	2.12	0.49
18:6h:216:SER:HB3	18:6h:275:ILE:O	2.12	0.49
17:7e:49:VAL:O	17:7e:62:ARG:NH1	2.44	0.49
18:7f:217:LEU:HD21	18:7f:368:LEU:HD23	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8a:294:TRP:CE2	17:8a:333:VAL:HG11	2.47	0.49
17:8c:99:ASN:OD1	18:8d:258:ASN:ND2	2.42	0.49
17:9a:145:SER:HB3	17:9a:188:SER:OG	2.12	0.49
17:9c:253:LEU:HD11	17:9c:316:LEU:HD21	1.94	0.49
17:9g:210:ILE:HD13	17:9g:298:ASN:HA	1.95	0.49
17:Ag:55:THR:HG23	17:Bg:282:ARG:O	2.12	0.49
17:Be:290:THR:HA	17:Be:293:MET:HE3	1.94	0.49
17:Cc:140:GLY:HA2	17:Cc:184:ASN:HB2	1.94	0.49
18:Cd:11:GLN:N	21:Cd:501:GTP:O1A	2.43	0.49
18:Cd:21:TRP:CZ2	18:Cd:65:CYS:HB2	2.46	0.49
17:Ce:67:ASP:O	17:Ce:92:PHE:HA	2.12	0.49
17:Da:324:LYS:HG2	18:Dh:222:PRO:HD2	1.94	0.49
18:Db:261:PRO:HG2	18:Db:313:MET:HE2	1.94	0.49
18:Dd:141:VAL:HG13	18:Dd:190:SER:OG	2.13	0.49
17:De:73:MET:SD	17:De:92:PHE:HB3	2.52	0.49
18:Dh:180:ALA:HB3	18:Dh:183:GLU:HB2	1.94	0.49
1:0A:319:ASN:HB2	1:0A:606:SER:H	1.78	0.49
1:0A:523:THR:HB	1:0A:524:ARG:HH11	1.77	0.49
1:0C:143:GLY:O	1:0C:146:SER:OG	2.23	0.49
1:0D:86:MET:SD	1:0D:86:MET:N	2.85	0.49
2:0G:139:GLU:O	2:0G:143:GLU:HG2	2.12	0.49
3:0I:135:MET:O	3:0I:142:ARG:NH2	2.45	0.49
5:0M:272:CYS:SG	5:0M:288:ARG:HD3	2.53	0.49
9:0U:143:UNK:HA	18:4h:123:ARG:NH1	2.27	0.49
9:0U:162:UNK:C	17:5a:336:LYS:HZ2	2.25	0.49
13:1B:1177:THR:HA	13:1B:1290:VAL:O	2.12	0.49
13:1B:1226:GLU:OE2	13:1B:1229:ARG:NH1	2.42	0.49
14:1F:606:GLU:HG2	14:1F:609:ARG:HD3	1.93	0.49
14:1G:929:ARG:HG2	14:1G:960:TRP:CE2	2.47	0.49
18:1d:138:PHE:CD1	18:1d:169:PHE:HB2	2.46	0.49
18:1f:79:ARG:HG3	18:1f:92:LEU:HD22	1.94	0.49
17:2e:100:ASN:HB3	17:2e:103:LYS:HB2	1.94	0.49
17:2e:132:GLY:HA3	17:2e:163:MET:O	2.12	0.49
17:2e:140:GLY:HA2	17:2e:184:ASN:HB2	1.94	0.49
18:3d:180:ALA:HB3	18:3d:183:GLU:HB2	1.93	0.49
17:4g:67:ASP:O	17:4g:92:PHE:HA	2.12	0.49
18:4h:9:ILE:HD13	18:4h:150:GLY:HA2	1.94	0.49
18:5d:173:PRO:HG2	18:5d:391:LEU:HD11	1.94	0.49
17:5g:232:VAL:HG21	17:5g:300:MET:SD	2.53	0.49
18:6d:8:HIS:ND1	18:6d:65:CYS:SG	2.84	0.49
18:6f:244:PHE:O	18:6f:356:ASN:ND2	2.45	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6f:292:THR:OG1	18:6f:319:TYR:OH	2.27	0.49
18:6h:16:VAL:HA	18:6h:228:ASN:HB3	1.93	0.49
17:7c:253:LEU:HD11	17:7c:316:LEU:HD21	1.93	0.49
17:7c:390:ARG:HH11	17:7c:391:ARG:NH1	2.09	0.49
18:7f:301:MET:HA	18:7f:301:MET:HE3	1.93	0.49
18:8b:4:VAL:HG22	18:8b:133:GLN:HB2	1.94	0.49
17:8c:159:TYR:HB3	17:8c:162:ARG:HG3	1.93	0.49
18:9b:9:ILE:HD13	18:9b:150:GLY:HA2	1.93	0.49
17:Aa:213:ARG:HH21	17:Aa:297:LYS:HD2	1.77	0.49
17:Bg:99:ASN:HA	17:Bg:142:GLY:H	1.77	0.49
18:Db:217:LEU:HG	18:Db:275:ILE:HG22	1.94	0.49
17:De:294:TRP:CE2	17:De:333:VAL:HG11	2.48	0.49
17:Dg:60:VAL:HG23	17:Dg:84:ILE:O	2.12	0.49
17:Dg:377:MET:HG3	17:Dg:380:ARG:NH2	2.27	0.49
1:0A:438:ASP:HB3	1:0A:441:ALA:HB3	1.94	0.49
1:0D:335:HIS:HE2	1:0D:380:GLY:HA3	1.78	0.49
3:0I:146:LYS:NZ	17:Bg:412:GLU:HB3	2.28	0.49
3:0J:433:CYS:O	3:0J:535:ALA:HA	2.12	0.49
3:0J:517:PRO:HB2	3:0J:518:PRO:HD3	1.93	0.49
3:0J:574:MET:SD	3:0J:577:ARG:NH2	2.84	0.49
5:0M:241:ASN:HB2	17:Bg:39:ASP:OD1	2.12	0.49
6:0P:147:LEU:HD11	17:Cc:274:THR:OG1	2.12	0.49
13:1B:1311:GLU:HB2	13:1B:1323:GLN:NE2	2.28	0.49
13:1B:1659:ALA:HB2	16:1M:22:UNK:C	2.39	0.49
14:1D:425:LYS:NZ	14:1D:527:ASP:OD2	2.45	0.49
17:1a:12:CYS:HB2	20:1a:501:GDP:C8	2.48	0.49
17:1a:281:TYR:CE2	18:Df:89:PRO:HD3	2.47	0.49
18:1d:76:ASP:OD2	17:1e:46:ARG:NH2	2.44	0.49
17:1e:167:PHE:CD2	17:1e:233:MET:HE3	2.47	0.49
17:1g:330:MET:HE3	17:1g:349:VAL:CG1	2.42	0.49
18:1h:180:ALA:HB3	18:1h:183:GLU:HB2	1.95	0.49
17:2c:139:LEU:HD12	17:2c:170:VAL:HG22	1.93	0.49
17:3a:46:ARG:NH2	18:3h:76:ASP:OD2	2.45	0.49
18:3b:234:VAL:HG21	18:3b:302:MET:HE1	1.94	0.49
17:3c:139:LEU:HG	17:3c:168:SER:HB3	1.94	0.49
18:3f:222:PRO:HD2	17:3g:324:LYS:HG2	1.94	0.49
17:3g:184:ASN:OD1	17:3g:398:TYR:OH	2.22	0.49
18:4d:138:PHE:CD1	18:4d:169:PHE:HB2	2.47	0.49
17:4e:417:ASP:O	17:4e:421:GLU:HG2	2.13	0.49
17:5c:375:GLN:NE2	17:5c:423:GLN:HB2	2.28	0.49
17:5g:212:PHE:HB2	18:5h:326:LYS:NZ	2.28	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5g:289:LEU:HD13	17:5g:363:MET:HE2	1.94	0.49
18:7d:70:LEU:HD12	18:7d:99:ALA:HB2	1.95	0.49
18:8h:88:HIS:HB3	18:8h:91:GLN:HB2	1.94	0.49
17:Ba:293:MET:HG3	17:Ba:367:PHE:HB2	1.94	0.49
17:Bc:268:VAL:HG12	17:Bc:368:ILE:HG12	1.94	0.49
17:Be:318:ARG:HB3	17:Be:357:PRO:HA	1.93	0.49
18:Bh:311:LYS:H	18:Bh:382:THR:HG22	1.77	0.49
18:Cb:11:GLN:N	21:Cb:501:GTP:O1A	2.33	0.49
18:Cb:269:LEU:HD21	18:Cb:384:ILE:HG22	1.94	0.49
18:Cd:174:SER:HB2	18:Cd:177:VAL:O	2.12	0.49
18:Cf:132:LEU:HB3	18:Cf:164:LYS:HE2	1.93	0.49
18:Ch:9:ILE:HD13	18:Ch:150:GLY:HA2	1.93	0.49
18:Db:144:GLY:N	21:Db:501:GTP:O2G	2.45	0.49
17:Dc:145:SER:HB3	17:Dc:188:SER:OG	2.11	0.49
17:Dc:167:PHE:CZ	17:Dc:233:MET:HG2	2.47	0.49
17:Dg:272:PRO:HG3	17:Dg:284:LEU:HD11	1.94	0.49
1:0B:181:LYS:NZ	4:0K:127:LEU:HD12	2.27	0.49
1:0B:346:ASP:CG	2:0F:46:ARG:HH12	2.19	0.49
3:0I:146:LYS:HD2	17:Bg:413:SER:OG	2.13	0.49
5:0N:345:LEU:HD12	5:0N:412:LEU:HD23	1.95	0.49
7:0Q:420:SER:HB2	7:0Q:440:MET:HB3	1.94	0.49
7:0S:65:MET:HE3	7:0S:66:SER:N	2.26	0.49
7:0S:470:VAL:C	7:0S:471:MET:HE2	2.36	0.49
12:0Y:94:GLY:N	19:0Y:801:ADP:O1B	2.45	0.49
13:1C:1305:LEU:HD22	13:1C:1325:TYR:HE1	1.77	0.49
13:1C:1690:MET:SD	17:Ba:396:HIS:HE1	2.35	0.49
14:1D:407:PRO:HB2	14:1D:409:ARG:HH12	1.77	0.49
14:1E:592:TYR:HA	14:1E:595:ARG:HD2	1.95	0.49
15:1H:32:UNK:O	17:3e:276:ARG:NH2	2.44	0.49
18:1b:269:LEU:HB3	18:1b:301:MET:HE2	1.94	0.49
17:1c:203:ASP:OD2	17:1c:302:ALA:N	2.35	0.49
18:1d:144:GLY:N	21:1d:501:GTP:O2G	2.46	0.49
18:1f:217:LEU:HD21	18:1f:368:LEU:HD23	1.95	0.49
18:2b:79:ARG:NH1	18:2b:94:SER:OG	2.46	0.49
17:2c:320:ARG:HH22	17:2c:355:ASP:CG	2.20	0.49
18:2d:101:ASN:HA	18:2d:144:GLY:H	1.77	0.49
18:3d:259:LEU:HD22	18:3d:268:MET:HE1	1.94	0.49
17:4a:215:LEU:HB3	17:4a:217:LEU:HD13	1.93	0.49
17:4e:145:SER:HB3	17:4e:188:SER:OG	2.13	0.49
17:5a:202:LEU:HD13	17:5a:229:ILE:HG12	1.94	0.49
17:5g:268:VAL:HG12	17:5g:368:ILE:HG12	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6d:174:SER:HB3	18:6d:207:GLU:HB2	1.93	0.49
17:6g:7:ILE:HD13	17:6g:151:LEU:HD21	1.93	0.49
17:7a:73:MET:SD	17:7a:92:PHE:HB3	2.53	0.49
17:7a:163:MET:O	17:7a:164:MET:HE2	2.12	0.49
17:7c:417:ASP:O	17:7c:421:GLU:HG2	2.12	0.49
17:8c:7:ILE:HD13	17:8c:151:LEU:HD21	1.95	0.49
18:9d:70:LEU:HD21	18:9d:149:LEU:HD22	1.94	0.49
18:9d:403:ALA:HB2	17:9e:344:TRP:HZ3	1.78	0.49
17:9e:174:LYS:HB2	17:9e:205:GLU:OE2	2.12	0.49
18:9f:9:ILE:HD13	18:9f:150:GLY:HA2	1.93	0.49
17:Ac:140:GLY:HA2	17:Ac:184:ASN:HB2	1.94	0.49
17:Ae:272:PRO:HD3	17:Ae:364:SER:HA	1.94	0.49
18:Af:30:ILE:HA	18:Af:36:MET:HB3	1.94	0.49
18:Af:324:VAL:HG13	18:Af:327:ASP:H	1.77	0.49
17:Bc:238:CYS:SG	17:Bc:318:ARG:NH1	2.86	0.49
17:Be:67:ASP:O	17:Be:92:PHE:HA	2.12	0.49
18:Bf:227:LEU:O	18:Bf:231:ILE:HG13	2.13	0.49
17:Ca:317:PHE:CD2	17:Ca:321:MET:HE1	2.48	0.49
17:Cc:211:CYS:HA	17:Cc:215:LEU:HB2	1.95	0.49
18:Cd:16:VAL:HA	18:Cd:228:ASN:HB3	1.93	0.49
18:Ch:211:ASP:OD2	18:Ch:215:ARG:NH1	2.46	0.49
18:Ch:269:LEU:HD22	18:Ch:303:VAL:HB	1.94	0.49
17:Da:31:ASP:OD2	17:Da:33:THR:OG1	2.28	0.49
17:Da:377:MET:HG3	17:Da:380:ARG:NH2	2.27	0.49
17:Dc:20:PHE:HA	17:Dc:230:SER:HB2	1.94	0.49
17:Dc:299:MET:N	17:Dc:299:MET:HE2	2.28	0.49
18:Dd:174:SER:HB3	18:Dd:207:GLU:HB2	1.94	0.49
18:Df:293:ASN:O	18:Df:297:GLU:HG2	2.11	0.49
1:0A:163:HIS:HB2	1:0D:163:HIS:HB2	1.95	0.49
1:0A:430:LEU:HD12	1:0A:454:SER:HB2	1.93	0.49
1:0B:156:ARG:HG3	1:0C:155:GLU:HB3	1.95	0.49
1:0B:438:ASP:O	1:0B:442:GLY:N	2.42	0.49
2:0E:74:VAL:HG13	2:0E:141:LEU:HD11	1.94	0.49
4:0L:154:GLN:O	4:0L:157:LEU:N	2.45	0.49
5:0M:229:LEU:HD21	5:0M:286:VAL:HA	1.95	0.49
5:0M:252:GLY:HA2	5:0M:255:LYS:HD2	1.95	0.49
7:0Q:116:LEU:O	7:0Q:129:VAL:HA	2.13	0.49
7:0Q:218:SER:HA	17:2g:32:PRO:HG2	1.94	0.49
12:1A:112:GLY:C	12:1A:115:PRO:HD2	2.38	0.49
13:1B:1173:MET:HE3	13:1B:1285:LEU:HD22	1.94	0.49
13:1C:1275:LEU:HD12	13:1C:1283:LEU:HB2	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1D:429:ARG:HG3	14:1D:528:LEU:HD11	1.93	0.49
14:1E:992:LEU:HD12	14:1E:1011:VAL:HG13	1.94	0.49
14:1G:544:VAL:HG22	14:1G:547:LYS:HZ3	1.78	0.49
18:1f:9:ILE:HD13	18:1f:150:GLY:HA2	1.94	0.49
17:2c:67:ASP:OD1	17:2c:68:LEU:N	2.44	0.49
18:2h:198:THR:HG21	18:2h:201:ALA:HB2	1.94	0.49
18:3h:79:ARG:NH1	18:3h:94:SER:OG	2.45	0.49
17:4e:94:GLN:NE2	18:4f:131:GLY:HA3	2.27	0.49
17:4e:213:ARG:HG3	17:4e:214:THR:HG23	1.93	0.49
18:4h:386:GLU:O	18:4h:390:ARG:HG3	2.13	0.49
18:5d:244:PHE:O	18:5d:356:ASN:ND2	2.46	0.49
17:5e:417:ASP:O	17:5e:421:GLU:HG2	2.13	0.49
18:7b:76:ASP:OD2	17:7c:46:ARG:NH2	2.42	0.49
18:7f:250:VAL:HA	18:7f:254:GLU:OE2	2.11	0.49
17:7g:99:ASN:HA	17:7g:142:GLY:H	1.77	0.49
17:7g:417:ASP:O	17:7g:421:GLU:HG2	2.12	0.49
17:8a:99:ASN:HA	17:8a:142:GLY:H	1.76	0.49
17:8a:345:ILE:HG12	18:8h:398:MET:HE1	1.94	0.49
18:8b:70:LEU:HD21	18:8b:149:LEU:HD22	1.95	0.49
18:8h:15:GLN:HA	18:8h:18:ASN:HD22	1.78	0.49
17:9a:139:LEU:HD12	17:9a:170:VAL:HG22	1.94	0.49
18:9b:255:PHE:O	18:9b:259:LEU:HB2	2.12	0.49
18:9d:68:LEU:HD21	18:9d:149:LEU:HD23	1.94	0.49
18:9f:119:LEU:HD11	18:9f:156:ARG:HB3	1.93	0.49
17:Ac:213:ARG:NE	17:Ac:297:LYS:HB3	2.26	0.49
18:Af:390:ARG:HA	18:Af:393:HIS:CE1	2.47	0.49
17:Bc:86:ARG:HH11	17:Cc:281:TYR:HD1	1.60	0.49
17:Be:377:MET:HG3	17:Be:380:ARG:NH2	2.28	0.49
17:Be:392:LYS:NZ	17:Be:405:GLU:OE2	2.45	0.49
18:Bf:216:SER:HB3	18:Bf:275:ILE:O	2.11	0.49
17:Bg:177:ASP:O	18:Bh:352:LYS:HA	2.12	0.49
17:Ca:67:ASP:O	17:Ca:92:PHE:HA	2.13	0.49
18:Cf:316:CYS:HB3	18:Cf:378:ILE:HG23	1.93	0.49
17:Dc:139:LEU:HD12	17:Dc:170:VAL:HG22	1.94	0.49
18:Dh:11:GLN:N	21:Dh:501:GTP:O1A	2.37	0.49
1:0B:470:ALA:HB2	1:0B:500:VAL:HG13	1.95	0.49
1:0C:332:LEU:HD22	1:0C:341:LEU:HD21	1.95	0.49
5:0N:257:ARG:HD3	18:Cb:278:ALA:HB2	1.95	0.49
5:0N:273:ASP:HB2	5:0N:284:GLU:HG2	1.93	0.49
12:0X:88:PHE:CZ	12:0X:308:MET:HG3	2.47	0.49
12:1A:198:ARG:NH2	12:1A:214:THR:OG1	2.30	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1C:1494:VAL:HG13	13:1C:1514:ILE:HG23	1.93	0.49
15:1H:45:UNK:HA	18:2f:46:ASP:N	2.28	0.49
21:1f:501:GTP:O1B	17:1g:252:LYS:NZ	2.38	0.49
18:1h:174:SER:HB2	18:1h:177:VAL:O	2.13	0.49
17:2a:326:VAL:HG12	17:2a:330:MET:HE2	1.95	0.49
17:2g:10:GLY:O	17:2g:14:ASN:ND2	2.46	0.49
17:2g:198:GLU:HG3	17:2g:266:PHE:CE2	2.42	0.49
17:3c:145:SER:HB3	17:3c:188:SER:OG	2.12	0.49
18:3h:167:LEU:HG	18:3h:200:VAL:HB	1.93	0.49
17:4a:311:LEU:HD23	17:4a:342:VAL:HG21	1.94	0.49
18:4b:9:ILE:HD13	18:4b:150:GLY:HA2	1.94	0.49
18:4b:242:LEU:HD21	18:4b:252:ILE:HG12	1.94	0.49
17:6c:388:MET:N	17:6c:388:MET:HE2	2.28	0.49
18:6f:315:CYS:HB3	18:6f:377:MET:HE1	1.95	0.49
17:6g:274:THR:HG22	17:6g:282:ARG:HD3	1.94	0.49
17:6g:309:ARG:N	17:6g:372:THR:OG1	2.40	0.49
17:7a:145:SER:HB3	17:7a:188:SER:OG	2.13	0.49
17:7a:294:TRP:CE2	17:7a:333:VAL:HG11	2.47	0.49
18:7b:234:VAL:HG21	18:7b:302:MET:HE1	1.95	0.49
17:7e:238:CYS:SG	17:7e:241:ARG:NH2	2.85	0.49
17:8g:238:CYS:SG	17:8g:318:ARG:NH1	2.86	0.49
17:9a:117:LEU:HD11	17:9a:154:LYS:HB3	1.95	0.49
18:9d:209:ILE:HD13	18:9d:231:ILE:HD11	1.95	0.49
18:9d:239:THR:HG23	18:9d:242:LEU:HD12	1.94	0.49
18:9h:269:LEU:HD22	18:9h:303:VAL:HB	1.95	0.49
18:Ah:280:LYS:O	18:Ah:283:HIS:HB2	2.13	0.49
17:Bg:309:ARG:NE	17:Bg:339:SER:O	2.45	0.49
17:Ca:31:ASP:OD2	17:Ca:33:THR:OG1	2.28	0.49
17:Dc:337:ASN:HB3	17:Dc:340:TYR:HD2	1.77	0.49
17:Dc:404:ASP:OD1	17:Dc:405:GLU:N	2.46	0.49
18:Dd:36:MET:HG2	18:Dd:61:HIS:CE1	2.47	0.49
17:De:140:GLY:HA2	17:De:184:ASN:HB2	1.94	0.49
18:Dh:36:MET:HE3	18:Dh:61:HIS:NE2	2.27	0.49
18:Dh:265:ILE:HG21	18:Dh:313:MET:HE1	1.94	0.49
7:0S:283:VAL:HG11	7:0S:301:VAL:HG11	1.94	0.49
12:0Y:106:THR:N	12:0Y:111:ARG:HG2	2.15	0.49
12:0Z:232:ALA:HB1	12:0Z:233:VAL:HG23	1.95	0.49
12:0Z:308:MET:HE2	12:0Z:332:VAL:HG11	1.95	0.49
13:1C:1146:THR:HG22	13:1C:1150:LEU:HD13	1.94	0.49
14:1D:818:MET:SD	14:1D:857:LYS:HA	2.52	0.49
17:1a:145:SER:HB3	17:1a:188:SER:OG	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1a:274:THR:HG22	17:1a:282:ARG:HD3	1.93	0.49
17:2c:417:ASP:O	17:2c:421:GLU:HG2	2.12	0.49
18:2f:427:ALA:HA	18:2f:430:LYS:HG2	1.94	0.49
17:3a:286:VAL:HG22	17:3a:321:MET:HE3	1.94	0.49
17:3c:373:ALA:O	17:3c:376:GLU:HG2	2.13	0.49
17:3e:417:ASP:O	17:3e:421:GLU:HG2	2.13	0.49
18:3f:203:MET:HE3	18:3f:267:PHE:HD1	1.78	0.49
18:3h:30:ILE:HA	18:3h:36:MET:HB3	1.95	0.49
18:4b:172:TYR:OH	18:4b:191:THR:OG1	2.31	0.49
18:6b:70:LEU:HD12	18:6b:99:ALA:HB2	1.95	0.49
17:6e:272:PRO:HD3	17:6e:364:SER:HA	1.94	0.49
18:6h:227:LEU:O	18:6h:231:ILE:HG13	2.12	0.49
17:7a:170:VAL:HG11	17:7a:377:MET:SD	2.52	0.49
18:7d:4:VAL:HG22	18:7d:133:GLN:HB2	1.95	0.49
17:7g:98:GLY:HA2	18:7h:254:GLU:CD	2.38	0.49
17:8c:375:GLN:NE2	17:8c:423:GLN:OE1	2.40	0.49
17:8e:12:CYS:HB2	20:8e:501:GDP:C8	2.48	0.49
17:9a:1:MET:HE2	18:9h:96:LYS:HD3	1.94	0.49
18:9b:426:ALA:O	18:9b:430:LYS:HG2	2.11	0.49
18:9d:9:ILE:HD13	18:9d:150:GLY:HA2	1.94	0.49
18:Bb:2:ARG:HB3	18:Bb:242:LEU:HD12	1.93	0.49
17:Be:34:GLY:HA3	17:Be:58:ARG:HG3	1.95	0.49
17:Cc:198:GLU:HG3	17:Cc:266:PHE:CE2	2.39	0.49
18:Cd:223:THR:OG1	17:Ce:245:GLN:OE1	2.30	0.49
17:Ce:64:ILE:HD13	17:Ce:120:VAL:HG22	1.95	0.49
17:Ce:293:MET:HE1	17:Ce:315:ALA:HB1	1.95	0.49
17:Da:358:PRO:HG2	17:Da:361:LEU:HB2	1.94	0.49
18:Db:101:ASN:HA	18:Db:144:GLY:H	1.77	0.49
17:Dc:377:MET:HG3	17:Dc:380:ARG:HH22	1.77	0.49
17:De:274:THR:HG22	17:De:282:ARG:HD3	1.95	0.49
1:0A:370:TRP:NE1	2:0H:44:LEU:O	2.45	0.49
1:0A:524:ARG:HB2	1:0A:525:MET:HE2	1.94	0.49
1:0B:586:PHE:HE2	1:0B:590:GLY:HA2	1.77	0.49
4:0K:181:LEU:HD22	18:Bf:176:GLN:NE2	2.28	0.49
4:0L:115:ASP:HB2	4:0L:118:SER:HB3	1.94	0.49
5:0M:121:LEU:HB3	5:0M:125:GLU:HB2	1.95	0.49
7:0Q:82:ASP:OD2	7:0Q:96:LYS:NZ	2.44	0.49
7:0S:463:SER:HB2	7:0S:482:GLU:HB2	1.95	0.49
18:1h:4:VAL:HG22	18:1h:133:GLN:HB2	1.95	0.49
18:1h:132:LEU:HB3	18:1h:164:LYS:HE2	1.94	0.49
17:2a:207:LEU:HD21	17:2a:300:MET:HE2	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2f:96:LYS:HG2	17:2g:1:MET:HE1	1.95	0.49
17:2g:145:SER:HB3	17:2g:188:SER:OG	2.13	0.49
17:2g:373:ALA:O	17:2g:376:GLU:HG2	2.13	0.49
17:3a:373:ALA:O	17:3a:376:GLU:HG2	2.12	0.49
18:3d:213:CYS:HA	18:3d:217:LEU:HD12	1.94	0.49
18:3f:324:VAL:HG11	18:3f:326:LYS:HE2	1.93	0.49
18:5b:174:SER:HB2	18:5b:177:VAL:O	2.12	0.49
17:5g:198:GLU:HG3	17:5g:266:PHE:HE2	1.77	0.49
17:6a:373:ALA:O	17:6a:376:GLU:HG2	2.13	0.49
18:6b:407:TRP:HZ2	17:6c:258:ILE:HD12	1.78	0.49
17:6c:397:TRP:CD1	18:6d:257:THR:HA	2.48	0.49
18:6d:316:CYS:SG	18:6d:318:MET:HE3	2.52	0.49
18:7b:259:LEU:HD13	18:7b:268:MET:HE2	1.95	0.49
17:7g:174:LYS:NZ	18:7h:333:ALA:HB1	2.28	0.49
18:8b:132:LEU:HB3	18:8b:164:LYS:HE2	1.93	0.49
18:8f:21:TRP:CZ3	18:8f:52:PHE:HB3	2.48	0.49
18:8f:76:ASP:OD2	17:8g:46:ARG:NH2	2.45	0.49
18:8h:137:VAL:HG21	18:8h:154:LEU:HD21	1.94	0.49
17:9a:52:ASN:OD1	17:9a:62:ARG:NH2	2.46	0.49
17:9c:167:PHE:CZ	17:9c:233:MET:HG2	2.48	0.49
18:Ad:33:ASP:OD2	18:Ad:35:GLN:NE2	2.46	0.49
18:Bb:319:TYR:HB3	18:Bb:323:VAL:HG21	1.95	0.49
17:Bc:177:ASP:O	18:Bd:352:LYS:HA	2.13	0.49
17:Bc:293:MET:HG3	17:Bc:367:PHE:HB2	1.94	0.49
17:Bc:391:ARG:NH2	18:Bd:434:GLU:O	2.46	0.49
17:Bc:391:ARG:HG2	18:Bd:262:TYR:OH	2.13	0.49
18:Bf:180:ALA:HB3	18:Bf:183:GLU:HB2	1.94	0.49
17:Ca:130:LEU:O	17:Ca:162:ARG:NE	2.46	0.49
17:Cc:130:LEU:O	17:Cc:162:ARG:NE	2.46	0.49
18:Dd:265:ILE:HG22	18:Dd:380:ASN:HD21	1.77	0.49
17:Dg:140:GLY:HA2	17:Dg:184:ASN:HB2	1.94	0.49
18:Dh:79:ARG:NH1	18:Dh:94:SER:OG	2.46	0.49
18:Dh:141:VAL:HG13	18:Dh:190:SER:OG	2.13	0.49
18:Dh:298:PRO:HB3	18:Dh:307:PRO:HD2	1.94	0.49
1:0D:574:LEU:HD13	1:0D:605:TRP:CD2	2.48	0.49
3:0I:224:ILE:HD12	17:Cg:276:ARG:HB3	1.94	0.49
3:0J:215:TRP:CD1	3:0J:235:ARG:HD3	2.47	0.49
3:0J:224:ILE:HD13	17:Cc:276:ARG:NH1	2.27	0.49
5:0N:234:ARG:NE	17:Bc:45:GLU:OE1	2.46	0.49
12:0X:48:GLN:HG2	12:0X:48:GLN:O	2.12	0.49
12:0Z:71:LEU:HD22	12:0Z:309:VAL:HG22	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1A:47:GLN:HE21	18:9d:431:ASP:HB2	1.78	0.49
13:1B:1311:GLU:HB2	13:1B:1323:GLN:HE22	1.78	0.49
14:1E:677:LYS:O	14:1E:681:LEU:N	2.43	0.49
14:1E:948:ASN:OD1	14:1E:949:VAL:N	2.46	0.49
14:1G:568:ARG:NH2	14:1G:956:GLU:OE1	2.45	0.49
14:1G:960:TRP:CD2	14:1G:991:LEU:HD21	2.48	0.49
17:1a:202:LEU:HD13	17:1a:229:ILE:HG12	1.93	0.49
17:1e:86:ARG:HG2	17:1e:88:ASP:H	1.77	0.49
17:1g:98:GLY:HA2	18:1h:254:GLU:HG2	1.95	0.49
17:1g:138:SER:OG	20:1g:501:GDP:O1A	2.30	0.49
17:2a:11:GLN:HE22	20:2a:501:GDP:H8	1.60	0.49
18:2b:174:SER:HB2	18:2b:177:VAL:O	2.12	0.49
17:2e:326:VAL:HG12	17:2e:330:MET:HE2	1.95	0.49
17:3c:318:ARG:HB3	17:3c:357:PRO:HA	1.95	0.49
17:4a:12:CYS:HB2	20:4a:501:GDP:C8	2.48	0.49
18:4h:336:LYS:NZ	18:4h:348:PRO:O	2.46	0.49
17:5a:12:CYS:HB2	20:5a:501:GDP:C8	2.48	0.49
17:5a:245:GLN:OE1	18:5h:223:THR:OG1	2.31	0.49
18:5d:5:ILE:HG13	18:5d:132:LEU:HD11	1.95	0.49
17:5g:113:ILE:HG13	17:5g:117:LEU:HD23	1.95	0.49
18:5h:320:ARG:HB2	18:5h:374:ALA:HB3	1.94	0.49
18:6b:21:TRP:CZ3	18:6b:52:PHE:HB3	2.48	0.49
17:6c:113:ILE:HG13	17:6c:117:LEU:HD23	1.95	0.49
17:6c:311:LEU:HD23	17:6c:342:VAL:HG21	1.94	0.49
18:6d:360:PRO:HG3	18:6d:374:ALA:HB2	1.94	0.49
17:7e:86:ARG:NH1	17:8e:281:TYR:O	2.45	0.49
17:7g:36:TYR:OH	17:7g:40:SER:N	2.41	0.49
17:8c:21:TRP:CD1	17:8c:85:PHE:HE1	2.31	0.49
18:8d:259:LEU:HD13	18:8d:268:MET:HE2	1.95	0.49
18:8f:259:LEU:HD22	18:8f:268:MET:HE1	1.94	0.49
17:8g:99:ASN:HD22	18:8h:258:ASN:HD21	1.61	0.49
17:9c:274:THR:HG22	17:9c:282:ARG:HD3	1.95	0.49
18:9f:180:ALA:HB3	18:9f:183:GLU:HB2	1.95	0.49
17:9g:198:GLU:HG3	17:9g:266:PHE:CE2	2.42	0.49
17:9g:396:HIS:CE1	18:9h:263:PRO:HD3	2.47	0.49
18:9h:262:TYR:HB2	18:9h:265:ILE:HG22	1.95	0.49
17:Ac:99:ASN:HD22	18:Ad:258:ASN:HD21	1.59	0.49
17:Ac:300:MET:HE2	17:Ac:300:MET:HA	1.95	0.49
17:Bc:164:MET:HE2	17:Bc:164:MET:HA	1.95	0.49
17:Bc:375:GLN:HG3	17:Bc:419:VAL:HG13	1.94	0.49
18:Bd:79:ARG:NH1	18:Bd:94:SER:OG	2.46	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Bh:241:SER:OG	18:Bh:250:VAL:O	2.25	0.49
17:Ca:229:ILE:O	17:Ca:233:MET:HG3	2.13	0.49
17:Ce:73:MET:CE	17:Ce:92:PHE:HB3	2.43	0.49
17:Cg:391:ARG:HG3	18:Ch:346:TRP:HB3	1.95	0.49
17:Da:184:ASN:OD1	17:Da:398:TYR:OH	2.25	0.49
1:0A:75:ILE:HG22	1:0A:111:SER:HB3	1.95	0.48
1:0B:121:ASN:ND2	1:0C:117:VAL:HG23	2.28	0.48
1:0C:190:THR:HG22	4:0K:105:LEU:HB3	1.94	0.48
3:0I:106:GLY:O	3:0I:110:PRO:HD2	2.12	0.48
5:0M:51:ARG:HD2	18:Dd:279:GLU:OE2	2.13	0.48
6:0P:90:LYS:HG2	6:0P:94:TYR:CE1	2.48	0.48
8:0T:113:UNK:O	18:Df:214:ARG:NH2	2.46	0.48
10:0V:146:UNK:O	18:2h:96:LYS:HD2	2.13	0.48
13:1C:1581:ILE:HD11	13:1C:1596:CYS:HB3	1.94	0.48
14:1D:481:ASP:O	14:1D:484:LYS:HG2	2.13	0.48
14:1D:1025:SER:HA	14:1D:1028:LEU:HB2	1.95	0.48
14:1F:650:ARG:CB	14:1F:666:LEU:HD13	2.43	0.48
17:1c:159:TYR:HB3	17:1c:162:ARG:HG3	1.95	0.48
18:1d:65:CYS:SG	18:1d:66:ILE:N	2.86	0.48
17:1e:67:ASP:O	17:1e:92:PHE:HA	2.13	0.48
17:1e:159:TYR:HB3	17:1e:162:ARG:HG3	1.95	0.48
17:1e:267:MET:HE1	17:1e:373:ALA:HB3	1.94	0.48
17:2a:232:VAL:HG21	17:2a:300:MET:SD	2.53	0.48
18:2d:399:TYR:O	18:2d:402:ARG:NH1	2.40	0.48
18:2f:265:ILE:HG22	18:2f:380:ASN:HD21	1.78	0.48
17:3a:324:LYS:HG2	18:3h:222:PRO:HD2	1.95	0.48
18:4h:174:SER:HB3	18:4h:207:GLU:HB2	1.94	0.48
18:5b:267:PHE:O	18:5b:268:MET:HE2	2.13	0.48
18:6b:79:ARG:HG3	18:6b:92:LEU:HD22	1.94	0.48
18:6d:316:CYS:HB3	18:6d:378:ILE:HG23	1.95	0.48
18:6d:320:ARG:HH21	18:6d:358:GLN:HG3	1.78	0.48
18:6f:70:LEU:HD12	18:6f:99:ALA:HB2	1.94	0.48
18:6h:7:ILE:HG23	18:6h:66:ILE:HG23	1.95	0.48
17:7c:145:SER:HB3	17:7c:188:SER:OG	2.13	0.48
17:8c:5:VAL:HG23	17:8c:130:LEU:HD11	1.94	0.48
17:8g:86:ARG:HD3	17:9g:281:TYR:HD2	1.78	0.48
18:9d:251:ASP:H	18:9d:254:GLU:HB2	1.78	0.48
17:9g:235:GLY:HA2	17:9g:238:CYS:SG	2.53	0.48
18:Cf:319:TYR:HB3	18:Cf:323:VAL:HG21	1.94	0.48
1:0A:165:ARG:HE	18:Bh:402:ARG:NH2	2.11	0.48
1:0A:331:ASN:HD22	1:0A:374:VAL:H	1.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0A:399:LYS:HZ3	1:0A:401:ARG:HB2	1.78	0.48
1:0B:292:ALA:HB2	1:0B:446:MET:HE1	1.94	0.48
1:0D:354:HIS:O	1:0D:358:GLY:N	2.45	0.48
2:0H:78:PHE:HD1	2:0H:110:PHE:HE2	1.61	0.48
3:0J:106:GLY:O	3:0J:110:PRO:HD2	2.12	0.48
3:0J:544:GLY:HA2	14:1F:578:LEU:HD11	1.95	0.48
5:0M:83:LYS:NZ	17:Ce:321:MET:O	2.43	0.48
5:0M:358:ARG:NH2	18:Df:279:GLU:OE1	2.45	0.48
5:0M:416:GLY:HA3	17:Dg:320:ARG:HH11	1.78	0.48
6:0O:66:ASP:OD1	6:0O:67:GLU:N	2.44	0.48
7:0S:224:VAL:HG12	7:0S:231:VAL:HA	1.95	0.48
12:0X:136:HIS:HB3	12:0X:178:LEU:HG	1.95	0.48
13:1B:1135:LEU:HD21	13:1B:1285:LEU:HD21	1.94	0.48
13:1C:1322:LEU:HD23	13:1C:1378:ARG:HG2	1.96	0.48
13:1C:1473:TRP:NE1	13:1C:1498:LEU:HB3	2.29	0.48
17:2a:207:LEU:HD13	17:2a:225:LEU:HB3	1.94	0.48
18:3b:234:VAL:HG13	18:3b:376:CYS:SG	2.53	0.48
17:3c:86:ARG:HD2	17:3c:88:ASP:HB3	1.95	0.48
17:3c:134:GLN:HA	17:3c:165:LEU:O	2.12	0.48
18:3d:298:PRO:HB3	18:3d:307:PRO:HD2	1.94	0.48
18:3f:36:MET:HE3	18:3f:61:HIS:CE1	2.48	0.48
18:3f:293:ASN:O	18:3f:297:GLU:HG2	2.13	0.48
18:3f:319:TYR:HB3	18:3f:323:VAL:HG21	1.95	0.48
18:4h:198:THR:HG21	18:4h:201:ALA:HB2	1.94	0.48
18:5b:237:SER:HA	18:5b:320:ARG:HD2	1.94	0.48
18:5d:312:TYR:HA	18:5d:381:SER:HB2	1.95	0.48
18:6f:177:VAL:HB	17:6g:331:LEU:HD22	1.95	0.48
17:6g:145:SER:HB3	17:6g:188:SER:OG	2.13	0.48
18:7b:16:VAL:HA	18:7b:228:ASN:HB3	1.94	0.48
17:7c:99:ASN:HA	17:7c:142:GLY:H	1.77	0.48
18:7h:70:LEU:HD12	18:7h:99:ALA:HB2	1.95	0.48
17:9c:311:LEU:HD23	17:9c:342:VAL:HG21	1.95	0.48
17:9g:178:THR:OG1	17:9g:181:GLU:HG3	2.13	0.48
18:Af:79:ARG:NH1	18:Af:94:SER:OG	2.45	0.48
18:Bh:432:PHE:HA	18:Bh:435:VAL:HG22	1.95	0.48
17:Ca:145:SER:HB3	17:Ca:188:SER:OG	2.12	0.48
18:Cb:128:ASN:ND2	18:Db:285:GLN:OE1	2.41	0.48
18:Cb:174:SER:HB2	18:Cb:177:VAL:O	2.13	0.48
18:Df:223:THR:OG1	17:Dg:245:GLN:OE1	2.30	0.48
17:Dg:73:MET:HA	17:Dg:76:VAL:HB	1.95	0.48
1:0A:546:ARG:NH2	1:0A:589:ALA:O	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0B:396:ASP:HB3	1:0B:399:LYS:HG2	1.94	0.48
1:0B:410:LYS:HE2	17:Dc:406:MET:HG3	1.95	0.48
1:0D:438:ASP:O	1:0D:442:GLY:N	2.42	0.48
3:0J:246:ARG:HH11	3:0J:263:THR:HG21	1.77	0.48
3:0J:306:LEU:HD23	3:0J:309:ARG:HH21	1.78	0.48
4:0K:150:PHE:CE1	17:Be:392:LYS:HG3	2.48	0.48
6:0O:135:ARG:NH1	18:Ch:248:LEU:H	2.11	0.48
6:0P:64:PHE:HA	17:1g:360:GLY:O	2.12	0.48
13:1C:1680:LEU:O	13:1C:1683:ARG:HB2	2.13	0.48
14:1D:847:ARG:HH11	14:1D:847:ARG:HA	1.78	0.48
14:1E:1025:SER:HA	14:1E:1028:LEU:HB2	1.95	0.48
14:1G:1038:ARG:HG3	14:1G:1041:ALA:HB3	1.94	0.48
18:1b:171:VAL:HG22	18:1b:204:LEU:HB2	1.95	0.48
17:1c:99:ASN:HA	17:1c:142:GLY:H	1.79	0.48
18:1h:210:TYR:CD1	18:1h:227:LEU:HD21	2.47	0.48
18:1h:311:LYS:H	18:1h:382:THR:HG22	1.77	0.48
18:2b:242:LEU:HD21	18:2b:252:ILE:HG12	1.95	0.48
18:2d:251:ASP:H	18:2d:254:GLU:HB2	1.78	0.48
17:2e:311:LEU:HD23	17:2e:342:VAL:HG21	1.95	0.48
18:2h:16:VAL:HA	18:2h:228:ASN:HB3	1.94	0.48
17:3e:198:GLU:HG3	17:3e:266:PHE:CE2	2.41	0.48
17:4a:373:ALA:O	17:4a:376:GLU:HG2	2.14	0.48
18:4b:259:LEU:HD22	18:4b:268:MET:HE1	1.95	0.48
17:4c:36:TYR:OH	17:4c:40:SER:N	2.40	0.48
18:4d:104:ALA:HB2	18:4d:413:MET:HG3	1.95	0.48
18:4d:336:LYS:NZ	18:4d:348:PRO:O	2.46	0.48
18:4f:209:ILE:HG12	18:4f:302:MET:HG2	1.96	0.48
17:4g:205:GLU:HA	17:4g:208:TYR:CD2	2.48	0.48
18:4h:385:GLY:HA2	18:4h:388:PHE:HD2	1.78	0.48
18:5b:101:ASN:HA	18:5b:144:GLY:H	1.78	0.48
17:5e:317:PHE:HB3	17:5e:321:MET:HE1	1.94	0.48
18:5f:2:ARG:HB3	18:5f:242:LEU:HD12	1.95	0.48
18:5f:251:ASP:HB2	18:5f:254:GLU:HG3	1.95	0.48
18:5h:293:ASN:O	18:5h:297:GLU:HG2	2.13	0.48
17:6a:282:ARG:NH1	17:6a:292:GLN:OE1	2.38	0.48
18:6b:216:SER:HB3	18:6b:275:ILE:O	2.12	0.48
18:6h:431:ASP:O	18:6h:435:VAL:HG22	2.13	0.48
17:7a:49:VAL:O	17:7a:62:ARG:NH1	2.45	0.48
18:7h:200:VAL:HG23	18:7h:256:GLN:HG3	1.96	0.48
17:8g:375:GLN:HE22	17:8g:423:GLN:HB2	1.78	0.48
17:9a:330:MET:SD	17:9a:349:VAL:HG13	2.53	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9b:70:LEU:HD21	18:9b:149:LEU:HD22	1.95	0.48
17:9c:268:VAL:HG23	17:9c:300:MET:HE3	1.95	0.48
17:Aa:203:ASP:OD2	17:Aa:302:ALA:N	2.31	0.48
18:Ad:267:PHE:O	18:Ad:268:MET:HE2	2.12	0.48
18:Af:329:ASN:HA	18:Af:332:VAL:HG12	1.95	0.48
17:Bg:274:THR:HG22	17:Bg:282:ARG:HD3	1.95	0.48
18:Bh:70:LEU:HD12	18:Bh:99:ALA:HB2	1.95	0.48
17:Ca:7:ILE:HD13	17:Ca:151:LEU:HD21	1.94	0.48
18:Cf:192:HIS:HD2	18:Cf:421:ALA:HA	1.79	0.48
18:Cf:222:PRO:HD2	17:Cg:324:LYS:HG2	1.95	0.48
17:Da:46:ARG:NH2	18:Dh:76:ASP:OD2	2.46	0.48
18:Dd:223:THR:OG1	17:De:245:GLN:OE1	2.31	0.48
17:Dg:358:PRO:HG2	17:Dg:361:LEU:HB2	1.95	0.48
1:0C:319:ASN:HB2	1:0C:604:LEU:HB3	1.95	0.48
3:0I:440:HIS:CD2	14:1G:508:LEU:HD22	2.48	0.48
5:0N:742:PHE:CZ	18:Bb:57:GLY:HA2	2.48	0.48
6:0P:73:ARG:NH1	17:1g:42:LEU:HD11	2.29	0.48
7:0Q:354:TRP:HD1	7:0Q:361:LEU:HA	1.78	0.48
11:0W:7:UNK:C	18:Cf:430:LYS:HD2	2.43	0.48
12:1A:265:ASN:ND2	18:9d:414:GLU:OE2	2.47	0.48
13:1C:1444:ASP:O	13:1C:1450:ALA:HB2	2.14	0.48
14:1G:905:PHE:HA	14:1G:908:ASP:OD2	2.13	0.48
17:1a:373:ALA:O	17:1a:376:GLU:HG2	2.13	0.48
18:1f:216:SER:HB3	18:1f:275:ILE:O	2.12	0.48
17:2a:129:CYS:HB2	18:2h:96:LYS:HE3	1.95	0.48
18:2b:132:LEU:HB3	18:2b:164:LYS:HE2	1.95	0.48
17:2c:36:TYR:OH	17:2c:40:SER:N	2.36	0.48
18:2h:180:ALA:HB3	18:2h:183:GLU:HB2	1.96	0.48
18:2h:386:GLU:O	18:2h:390:ARG:HG3	2.14	0.48
17:3c:67:ASP:OD2	17:3c:72:THR:OG1	2.22	0.48
17:3c:159:TYR:HB3	17:3c:162:ARG:HG3	1.95	0.48
17:3g:10:GLY:O	17:3g:14:ASN:ND2	2.47	0.48
18:3h:217:LEU:HD21	18:3h:368:LEU:HD23	1.94	0.48
18:3h:386:GLU:O	18:3h:390:ARG:HG3	2.14	0.48
17:4c:99:ASN:HA	17:4c:142:GLY:H	1.78	0.48
18:4d:317:LEU:HD23	18:4d:377:MET:HB2	1.95	0.48
17:4g:375:GLN:HG3	17:4g:419:VAL:HG13	1.96	0.48
17:5c:198:GLU:HG3	17:5c:266:PHE:CE2	2.47	0.48
17:5e:205:GLU:HA	17:5e:208:TYR:CD2	2.48	0.48
18:6f:216:SER:HB3	18:6f:275:ILE:O	2.14	0.48
17:6g:98:GLY:O	18:6h:257:THR:OG1	2.28	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:7c:252:LYS:HB2	17:7c:252:LYS:HE3	1.66	0.48
17:7e:293:MET:HE3	17:7e:367:PHE:HB2	1.95	0.48
21:7f:501:GTP:O1B	17:7g:252:LYS:NZ	2.28	0.48
17:7g:375:GLN:NE2	17:7g:423:GLN:OE1	2.39	0.48
17:9c:318:ARG:HB3	17:9c:357:PRO:HA	1.95	0.48
18:9d:217:LEU:HD21	18:9d:368:LEU:HD23	1.95	0.48
18:9d:425:LEU:O	18:9d:429:GLU:HG2	2.14	0.48
17:9e:184:ASN:OD1	17:9e:398:TYR:OH	2.27	0.48
17:9g:208:TYR:CE1	17:9g:225:LEU:HD11	2.48	0.48
17:Aa:139:LEU:HG	17:Aa:168:SER:HB3	1.96	0.48
17:Aa:179:VAL:HG12	17:Aa:388:MET:HE1	1.96	0.48
17:Ae:174:LYS:NZ	18:Af:333:ALA:HB1	2.28	0.48
17:Ae:269:GLY:HA2	17:Ae:300:MET:HG2	1.96	0.48
17:Ag:198:GLU:HG3	17:Ag:266:PHE:CE2	2.45	0.48
18:Ah:33:ASP:OD2	18:Ah:35:GLN:NE2	2.45	0.48
17:Bg:73:MET:HE1	17:Bg:92:PHE:HB3	1.95	0.48
18:Bh:7:ILE:HG23	18:Bh:66:ILE:HG23	1.94	0.48
17:Ce:140:GLY:HA2	17:Ce:184:ASN:HB2	1.94	0.48
18:Cf:217:LEU:HD21	18:Cf:368:LEU:HD23	1.94	0.48
18:Ch:64:ARG:NH1	18:Ch:129:CYS:SG	2.87	0.48
18:Dd:306:ASP:CG	18:Dd:308:ARG:HE	2.21	0.48
17:De:184:ASN:OD1	17:De:398:TYR:OH	2.26	0.48
18:Dh:70:LEU:HD12	18:Dh:99:ALA:HB2	1.95	0.48
18:Dh:320:ARG:HB2	18:Dh:374:ALA:HB3	1.94	0.48
1:0A:166:VAL:HG13	1:0D:170:LYS:HZ1	1.78	0.48
1:0B:292:ALA:HA	1:0B:295:ASN:HD22	1.77	0.48
1:0C:193:GLU:O	4:0K:98:ARG:NH2	2.47	0.48
1:0C:207:MET:CE	18:Cd:422:ARG:HG3	2.43	0.48
1:0D:429:SER:OG	1:0D:430:LEU:N	2.47	0.48
1:0D:473:ASP:OD1	1:0D:475:THR:OG1	2.26	0.48
2:0E:35:TYR:HE2	17:De:392:LYS:HD3	1.77	0.48
5:0M:167:GLY:O	17:Ce:276:ARG:NH1	2.47	0.48
7:0Q:365:VAL:HG22	7:0Q:405:CYS:HB2	1.95	0.48
12:0X:10:VAL:HG22	12:0X:310:ALA:HB3	1.96	0.48
12:1A:139:TYR:HB3	12:1A:151:LEU:HD13	1.96	0.48
13:1B:1495:ASP:HB2	13:1B:1515:VAL:HG23	1.94	0.48
14:1G:797:LEU:HD21	14:1G:847:ARG:HG2	1.95	0.48
18:1d:70:LEU:HD21	18:1d:149:LEU:HD22	1.96	0.48
17:1e:139:LEU:HG	17:1e:168:SER:HB3	1.94	0.48
18:1f:32:PRO:O	18:1f:86:LEU:HB2	2.12	0.48
17:1g:283:ALA:HB2	18:Dd:56:THR:HG22	1.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:2e:130:LEU:O	17:2e:162:ARG:NE	2.46	0.48
18:3d:403:ALA:HB2	17:3e:344:TRP:HZ3	1.78	0.48
18:3f:16:VAL:HA	18:3f:228:ASN:HB3	1.95	0.48
18:4b:293:ASN:O	18:4b:297:GLU:HG2	2.14	0.48
18:4f:222:PRO:HD2	17:4g:324:LYS:HG2	1.95	0.48
17:5a:311:LEU:HD23	17:5a:342:VAL:HG21	1.96	0.48
17:5e:159:TYR:HB3	17:5e:162:ARG:HG3	1.95	0.48
17:6a:159:TYR:HB3	17:6a:162:ARG:HG3	1.95	0.48
18:6b:210:TYR:CD1	18:6b:222:PRO:HB2	2.49	0.48
17:6c:94:GLN:OE1	17:6c:95:THR:HG23	2.13	0.48
17:6e:5:VAL:HG23	17:6e:130:LEU:HD11	1.94	0.48
18:6h:293:ASN:O	18:6h:297:GLU:HG2	2.14	0.48
18:6h:313:MET:HE3	18:6h:382:THR:HB	1.95	0.48
17:7a:156:ARG:NH2	17:7a:195:ASN:O	2.43	0.48
18:7b:244:PHE:O	18:7b:356:ASN:ND2	2.42	0.48
17:7c:36:TYR:OH	17:7c:40:SER:N	2.41	0.48
18:8h:70:LEU:HD12	18:8h:99:ALA:HB2	1.95	0.48
17:9e:136:CYS:HB3	17:9e:233:MET:HE1	1.96	0.48
17:9g:203:ASP:OD2	17:9g:302:ALA:N	2.31	0.48
18:Af:293:ASN:O	18:Af:297:GLU:HG2	2.14	0.48
17:Ba:26:ASP:OD2	17:Ba:359:LYS:HE3	2.13	0.48
18:Bb:259:LEU:HD22	18:Bb:268:MET:HE1	1.94	0.48
18:Cb:298:PRO:HB3	18:Cb:307:PRO:HD2	1.95	0.48
17:Cc:161:ASP:OD1	17:Cc:161:ASP:N	2.43	0.48
17:Cc:238:CYS:SG	17:Cc:318:ARG:NH1	2.87	0.48
17:Ce:208:TYR:CE1	17:Ce:225:LEU:HD11	2.48	0.48
17:Cg:198:GLU:HG3	17:Cg:266:PHE:CE2	2.46	0.48
17:Dc:131:GLN:O	17:Dc:163:MET:HB2	2.13	0.48
17:Dc:215:LEU:HB3	17:Dc:217:LEU:HD13	1.95	0.48
17:Dg:42:LEU:HD13	17:Dg:356:ILE:HD11	1.96	0.48
1:0B:546:ARG:NH2	1:0B:589:ALA:O	2.46	0.48
3:0I:231:LYS:HE2	3:0I:233:ARG:HD3	1.94	0.48
5:0M:360:ASP:HA	5:0M:367:LEU:HD21	1.96	0.48
7:0Q:512:SER:HB3	7:0Q:517:SER:HB2	1.95	0.48
9:0U:24:UNK:O	17:5c:332:ASN:ND2	2.47	0.48
12:1A:114:ILE:HG12	12:1A:239:LEU:HD22	1.95	0.48
13:1B:1685:PRO:HG2	13:1B:1688:GLN:HB2	1.95	0.48
18:1b:174:SER:HB2	18:1b:177:VAL:O	2.12	0.48
17:1c:397:TRP:O	17:1c:401:GLU:HG2	2.13	0.48
17:1g:139:LEU:HG	17:1g:168:SER:HB3	1.95	0.48
17:2c:8:GLN:O	17:2c:66:MET:HG2	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:2g:215:LEU:HB3	17:2g:217:LEU:HD13	1.96	0.48
18:2h:70:LEU:HD12	18:2h:99:ALA:HB2	1.94	0.48
18:3b:16:VAL:HA	18:3b:228:ASN:HB3	1.94	0.48
18:3b:216:SER:HB3	18:3b:275:ILE:O	2.14	0.48
18:4f:76:ASP:OD2	17:4g:46:ARG:NH2	2.47	0.48
17:4g:161:ASP:N	17:4g:161:ASP:OD1	2.45	0.48
17:5e:7:ILE:HD13	17:5e:151:LEU:HD21	1.95	0.48
18:5f:209:ILE:HG22	18:5f:227:LEU:HD22	1.96	0.48
18:5f:413:MET:HG3	18:5f:414:GLU:N	2.28	0.48
17:5g:117:LEU:HB3	17:5g:121:ARG:HH12	1.77	0.48
17:6a:113:ILE:HG13	17:6a:117:LEU:HD23	1.95	0.48
17:6c:220:PRO:HD2	18:6d:326:LYS:HE3	1.96	0.48
17:6e:233:MET:O	17:6e:236:ILE:HG22	2.13	0.48
18:6f:7:ILE:HG23	18:6f:66:ILE:HG23	1.96	0.48
17:7c:99:ASN:HA	17:7c:142:GLY:N	2.29	0.48
18:7d:188:VAL:HG13	18:7d:425:LEU:HD22	1.94	0.48
18:8b:105:ARG:HG2	18:8b:110:ILE:HD12	1.94	0.48
17:8c:132:GLY:HA3	17:8c:163:MET:HB3	1.95	0.48
17:8g:7:ILE:HD13	17:8g:151:LEU:HD21	1.95	0.48
17:8g:391:ARG:HH21	18:8h:435:VAL:HA	1.78	0.48
17:9c:260:PHE:HB2	17:9c:263:LEU:HD13	1.95	0.48
18:9d:35:GLN:HA	18:9d:61:HIS:HD2	1.78	0.48
18:Ab:293:ASN:O	18:Ab:297:GLU:HG2	2.14	0.48
17:Ba:170:VAL:HG21	17:Ba:201:VAL:HG13	1.94	0.48
17:Ba:173:PRO:HB3	17:Ba:380:ARG:CZ	2.43	0.48
18:Bd:141:VAL:HG21	18:Bd:172:TYR:HE1	1.78	0.48
18:Bd:147:SER:HB2	18:Bd:190:SER:HB3	1.95	0.48
17:Be:293:MET:HG3	17:Be:367:PHE:HB2	1.94	0.48
17:Cg:391:ARG:NH1	18:Ch:438:GLU:O	2.46	0.48
1:0D:537:HIS:HB3	1:0D:556:ASP:HB2	1.95	0.48
3:0J:228:LEU:HD12	17:Bc:92:PHE:HE2	1.78	0.48
5:0M:165:PHE:CE2	17:Ce:270:PHE:HE2	2.31	0.48
7:0S:354:TRP:HD1	7:0S:361:LEU:HA	1.79	0.48
7:0S:497:ARG:HG2	18:1b:31:GLN:HE22	1.79	0.48
10:0V:42:UNK:O	18:3d:308:ARG:NH1	2.46	0.48
12:0Y:287:PHE:CE1	12:0Y:297:ARG:HA	2.49	0.48
12:0Z:276:ASN:HD21	18:9b:402:ARG:NH2	2.11	0.48
14:1F:960:TRP:CD2	14:1F:991:LEU:HD21	2.49	0.48
14:1G:1020:MET:HB2	14:1G:1021:PRO:HD3	1.95	0.48
17:1e:130:LEU:O	17:1e:162:ARG:NE	2.47	0.48
18:1h:259:LEU:HD13	18:1h:268:MET:HE2	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:3c:7:ILE:HD13	17:3c:151:LEU:HD21	1.93	0.48
17:3c:49:VAL:O	17:3c:62:ARG:NH1	2.47	0.48
18:3d:144:GLY:N	21:3d:501:GTP:O2G	2.47	0.48
18:4b:222:PRO:HD2	17:4c:324:LYS:HG2	1.96	0.48
17:4c:87:PRO:HG2	17:5c:278:SER:HB3	1.94	0.48
18:4f:203:MET:HE3	18:4f:267:PHE:HD1	1.79	0.48
17:5e:382:SER:OG	17:5e:415:MET:HE3	2.14	0.48
17:5g:208:TYR:CE1	17:5g:225:LEU:HD11	2.48	0.48
17:6a:50:TYR:CE2	17:6a:241:ARG:HD3	2.48	0.48
17:6a:145:SER:HB3	17:6a:188:SER:OG	2.13	0.48
17:6c:66:MET:HE3	17:6c:147:MET:HB3	1.96	0.48
17:6c:330:MET:HG3	17:6c:349:VAL:HG11	1.94	0.48
17:6e:6:HIS:CD2	17:6e:21:TRP:HE1	2.32	0.48
17:6e:54:ALA:HB3	17:6e:58:ARG:HB3	1.96	0.48
17:9a:164:MET:HB3	17:9a:197:ASP:H	1.78	0.48
17:9e:397:TRP:CH2	18:9f:256:GLN:NE2	2.81	0.48
17:9g:145:SER:HB3	17:9g:188:SER:OG	2.14	0.48
17:9g:252:LYS:HB2	17:9g:252:LYS:HE3	1.65	0.48
18:9h:217:LEU:HG	18:9h:275:ILE:HG22	1.95	0.48
18:Ad:133:GLN:O	18:Ad:165:SER:OG	2.32	0.48
17:Ae:67:ASP:HB2	17:Ae:73:MET:HE3	1.96	0.48
17:Ba:68:LEU:HG	17:Ba:147:MET:HE1	1.96	0.48
18:Bf:268:MET:HE3	18:Bf:378:ILE:HG12	1.96	0.48
18:Bh:301:MET:HE1	18:Bh:307:PRO:HD3	1.95	0.48
18:Cd:88:HIS:HA	18:Dd:283:HIS:CE1	2.48	0.48
17:Da:207:LEU:HD11	17:Da:229:ILE:HD11	1.96	0.48
18:Dd:174:SER:HB2	18:Dd:177:VAL:O	2.14	0.48
17:Dg:49:VAL:O	17:Dg:62:ARG:NH1	2.46	0.48
1:0C:116:ASP:HB2	1:0C:119:LEU:HB2	1.95	0.48
1:0C:522:ASP:HB3	1:0C:525:MET:HB3	1.94	0.48
1:0D:116:ASP:HB2	1:0D:119:LEU:HB2	1.94	0.48
12:0X:110:HIS:O	12:0X:116:ARG:NH2	2.43	0.48
12:0Y:64:GLN:HB3	12:0Y:116:ARG:NH2	2.27	0.48
12:0Z:48:GLN:O	12:0Z:48:GLN:HG2	2.13	0.48
14:1E:1000:ARG:HH21	14:1E:1012:LEU:HD21	1.78	0.48
18:1b:399:TYR:O	18:1b:402:ARG:NH1	2.38	0.48
18:1f:280:LYS:HG3	17:Dc:87:PRO:HG2	1.96	0.48
18:1f:288:VAL:HB	18:1f:327:ASP:HB3	1.96	0.48
18:2b:312:TYR:HA	18:2b:381:SER:HB2	1.95	0.48
17:2c:6:HIS:HE1	17:2c:233:MET:HE1	1.79	0.48
18:2f:70:LEU:HD12	18:2f:99:ALA:HB2	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2f:268:MET:HG3	18:2f:378:ILE:HD11	1.95	0.48
17:2g:282:ARG:NH1	17:2g:292:GLN:OE1	2.40	0.48
17:3e:130:LEU:O	17:3e:162:ARG:NE	2.46	0.48
18:3h:28:HIS:NE2	18:3h:243:ARG:HD2	2.28	0.48
17:4c:417:ASP:O	17:4c:421:GLU:HG2	2.14	0.48
18:4d:293:ASN:O	18:4d:297:GLU:HG2	2.14	0.48
17:4e:391:ARG:HG3	18:4f:262:TYR:OH	2.13	0.48
21:4f:501:GTP:O1B	17:4g:252:LYS:NZ	2.37	0.48
18:5h:145:THR:N	21:5h:501:GTP:O2G	2.32	0.48
18:6b:210:TYR:CD1	18:6b:227:LEU:HD21	2.49	0.48
18:6b:319:TYR:HB3	18:6b:323:VAL:HG21	1.96	0.48
17:6c:49:VAL:O	17:6c:62:ARG:NH1	2.47	0.48
18:6d:407:TRP:HZ2	17:6e:258:ILE:HD12	1.79	0.48
17:6e:215:LEU:HB3	17:6e:217:LEU:HD13	1.96	0.48
18:6f:169:PHE:HZ	18:6f:238:LEU:HD13	1.79	0.48
17:7a:238:CYS:SG	17:7a:241:ARG:NH2	2.87	0.48
17:7a:266:PHE:CE1	17:7a:370:ASN:HB2	2.49	0.48
17:7e:203:ASP:OD2	17:7e:302:ALA:N	2.36	0.48
17:7g:98:GLY:O	18:7h:257:THR:OG1	2.32	0.48
18:8d:217:LEU:HD21	18:8d:368:LEU:HD23	1.96	0.48
18:8f:250:VAL:HG21	18:8f:354:GLY:HA3	1.95	0.48
17:8g:60:VAL:HG21	17:8g:86:ARG:NH1	2.29	0.48
18:Ab:35:GLN:HA	18:Ab:61:HIS:HD2	1.77	0.48
18:Bb:145:THR:OG1	21:Bb:501:GTP:O3B	2.25	0.48
18:Cb:28:HIS:CE1	18:Cb:243:ARG:HD2	2.49	0.48
18:Df:311:LYS:H	18:Df:382:THR:HG22	1.79	0.48
17:Dg:373:ALA:O	17:Dg:376:GLU:HG2	2.13	0.48
17:Dg:377:MET:HG3	17:Dg:380:ARG:HH22	1.78	0.48
1:0C:160:ARG:HH22	13:1B:1157:GLY:HA3	1.79	0.48
1:0C:577:HIS:NE2	1:0C:595:SER:OG	2.45	0.48
2:0H:68:VAL:HG12	2:0H:126:CYS:SG	2.54	0.48
3:0I:172:LEU:HD12	3:0I:173:ALA:H	1.79	0.48
3:0I:440:HIS:CD2	3:0I:498:THR:HG22	2.49	0.48
6:0P:71:PHE:HA	17:1g:356:ILE:HD12	1.96	0.48
7:0Q:296:GLY:O	7:0Q:313:ARG:NH1	2.46	0.48
12:0X:86:THR:HB	12:0X:306:THR:HG22	1.96	0.48
12:0Z:101:MET:HE1	12:0Z:239:LEU:HB3	1.95	0.48
12:1A:42:GLY:N	18:9d:263:PRO:HG2	2.14	0.48
13:1C:1201:TRP:HZ3	13:1C:1203:LEU:HG	1.79	0.48
14:1F:850:LEU:HB2	14:1F:872:TYR:CE1	2.49	0.48
18:1b:141:VAL:HG11	18:1b:172:TYR:CE1	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1g:161:ASP:OD1	17:1g:161:ASP:N	2.47	0.48
17:1g:202:LEU:HD13	17:1g:229:ILE:HG12	1.95	0.48
17:2a:112:LEU:HD23	17:2a:147:MET:HE1	1.95	0.48
18:2f:11:GLN:N	21:2f:501:GTP:O1A	2.43	0.48
18:2h:21:TRP:CZ2	18:2h:65:CYS:HB2	2.48	0.48
18:2h:216:SER:HB3	18:2h:275:ILE:O	2.14	0.48
17:3a:134:GLN:HA	17:3a:165:LEU:O	2.14	0.48
18:3b:4:VAL:HG22	18:3b:133:GLN:HB2	1.96	0.48
17:3e:161:ASP:OD1	17:3e:161:ASP:N	2.43	0.48
18:3f:216:SER:HB3	18:3f:275:ILE:O	2.14	0.48
18:4b:70:LEU:HA	18:4b:95:GLY:HA3	1.95	0.48
18:4h:181:VAL:O	18:4h:398:MET:HE1	2.14	0.48
18:4h:251:ASP:HB2	18:4h:254:GLU:OE1	2.14	0.48
17:5g:177:ASP:O	18:5h:352:LYS:HA	2.14	0.48
17:6c:66:MET:CE	17:6c:147:MET:HB3	2.44	0.48
17:6c:159:TYR:HB3	17:6c:162:ARG:HG3	1.96	0.48
17:7e:117:LEU:HB3	17:7e:121:ARG:HH12	1.79	0.48
17:7e:417:ASP:O	17:7e:421:GLU:HG2	2.13	0.48
18:8b:16:VAL:HA	18:8b:228:ASN:HB3	1.95	0.48
17:8c:173:PRO:HB3	17:8c:380:ARG:CZ	2.44	0.48
17:8e:113:ILE:HG13	17:8e:117:LEU:HD23	1.94	0.48
17:8e:156:ARG:NH2	17:8e:195:ASN:O	2.47	0.48
17:8e:253:LEU:HD11	17:8e:316:LEU:HD21	1.96	0.48
18:8f:201:ALA:O	18:8f:267:PHE:HA	2.13	0.48
17:8g:31:ASP:OD2	17:8g:33:THR:OG1	2.24	0.48
18:8h:90:GLU:OE1	18:8h:121:ARG:NE	2.46	0.48
17:9e:49:VAL:O	17:9e:62:ARG:NH1	2.46	0.48
17:9e:215:LEU:HB3	17:9e:217:LEU:HD13	1.94	0.48
18:9f:174:SER:HB2	18:9f:177:VAL:O	2.14	0.48
17:Ac:417:ASP:O	17:Ac:421:GLU:HG2	2.13	0.48
18:Ad:210:TYR:CD1	18:Ad:227:LEU:HD21	2.48	0.48
17:Bg:54:ALA:HB3	17:Bg:58:ARG:HB3	1.96	0.48
17:Ce:208:TYR:OH	18:Cf:325:PRO:HB2	2.14	0.48
17:Cg:113:ILE:HG13	17:Cg:117:LEU:HD23	1.96	0.48
17:Da:12:CYS:HB2	20:Da:501:GDP:C8	2.49	0.48
17:Da:373:ALA:O	17:Da:376:GLU:HG2	2.12	0.48
17:Dc:121:ARG:O	17:Dc:125:GLU:HG2	2.14	0.48
18:Dh:237:SER:HA	18:Dh:320:ARG:HD2	1.96	0.48
1:0A:411:GLN:HB3	1:0A:430:LEU:HB3	1.96	0.48
1:0C:406:PHE:HB3	1:0C:437:TRP:CH2	2.49	0.48
2:0G:104:TRP:O	2:0G:108:GLN:HG2	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0H:44:LEU:HD11	2:0H:64:CYS:HB2	1.95	0.48
5:0M:49:LEU:HD13	5:0M:51:ARG:NH2	2.29	0.48
5:0N:257:ARG:NH2	18:Cb:277:SER:HB2	2.29	0.48
12:0X:168:ASN:O	12:0X:342:ASN:ND2	2.45	0.48
12:0Z:78:SER:HB2	12:0Z:83:TYR:HB2	1.96	0.48
13:1C:1311:GLU:HB2	13:1C:1323:GLN:NE2	2.29	0.48
15:1H:21:UNK:HA	17:3e:221:THR:HG21	1.96	0.48
18:1d:317:LEU:HB3	18:1d:319:TYR:HE1	1.79	0.48
17:2a:10:GLY:O	17:2a:14:ASN:ND2	2.47	0.48
17:2c:98:GLY:HA2	18:2d:254:GLU:OE2	2.14	0.48
17:2e:73:MET:SD	17:2e:92:PHE:HB3	2.53	0.48
17:2g:267:MET:HE1	17:2g:373:ALA:HB3	1.95	0.48
17:3c:102:ALA:HB1	17:3c:401:GLU:HB2	1.96	0.48
18:3f:188:VAL:HG12	18:3f:421:ALA:HB1	1.96	0.48
17:4a:417:ASP:O	17:4a:421:GLU:HG2	2.14	0.48
18:4d:269:LEU:O	18:4d:378:ILE:HA	2.13	0.48
18:4f:269:LEU:O	18:4f:378:ILE:HA	2.14	0.48
17:5a:145:SER:HB3	17:5a:188:SER:OG	2.13	0.48
18:5b:96:LYS:HG2	17:5c:1:MET:HE1	1.96	0.48
17:5e:290:THR:HG21	17:5e:329:GLN:HB3	1.96	0.48
18:5h:30:ILE:HA	18:5h:36:MET:HB3	1.95	0.48
17:7g:152:ILE:HA	17:7g:164:MET:HE3	1.96	0.48
17:7g:161:ASP:N	17:7g:161:ASP:OD1	2.44	0.48
18:8f:293:ASN:O	18:8f:297:GLU:HG2	2.14	0.48
17:8g:98:GLY:O	18:8h:257:THR:OG1	2.30	0.48
17:9a:7:ILE:HD13	17:9a:151:LEU:HD21	1.96	0.48
17:9e:226:ASN:OD1	20:9e:501:GDP:N1	2.44	0.48
18:9h:9:ILE:HD11	18:9h:153:LEU:HD23	1.96	0.48
17:Aa:145:SER:HB3	17:Aa:188:SER:OG	2.14	0.48
17:Ag:377:MET:HG3	17:Ag:380:ARG:HH22	1.79	0.48
18:Ah:27:GLU:HB2	18:Ah:361:THR:HG21	1.95	0.48
18:Ah:386:GLU:O	18:Ah:390:ARG:HG3	2.13	0.48
18:Bb:174:SER:HB2	18:Bb:177:VAL:O	2.13	0.48
18:Bh:265:ILE:HG21	18:Bh:313:MET:HE1	1.95	0.48
17:Cg:279:GLN:HG3	17:Cg:280:GLN:N	2.28	0.48
1:0C:395:TRP:HA	1:0C:402:CYS:HA	1.95	0.47
2:0F:59:GLN:NE2	2:0F:73:LEU:HA	2.29	0.47
3:0I:196:ARG:HH22	3:0I:215:TRP:HZ3	1.62	0.47
3:0I:416:PRO:HB3	3:0I:448:ARG:HB2	1.96	0.47
5:0M:111:ARG:HG3	5:0M:130:VAL:HG21	1.95	0.47
5:0M:361:LEU:HA	18:Cf:84:ARG:HH12	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:0X:346:ASP:HB2	12:0X:349:LEU:HB2	1.94	0.47
12:1A:64:GLN:HB3	12:1A:116:ARG:NH2	2.28	0.47
13:1B:1201:TRP:HZ3	13:1B:1203:LEU:HG	1.79	0.47
13:1B:1340:ASP:HB2	13:1B:1392:PRO:HG2	1.96	0.47
14:1F:906:ALA:HA	14:1F:909:VAL:HG22	1.96	0.47
17:1a:173:PRO:HB3	17:1a:380:ARG:CZ	2.43	0.47
17:1g:373:ALA:O	17:1g:376:GLU:HG2	2.14	0.47
18:2b:293:ASN:O	18:2b:297:GLU:HG2	2.14	0.47
17:2g:67:ASP:OD2	17:2g:72:THR:OG1	2.18	0.47
18:3d:216:SER:HB3	18:3d:275:ILE:O	2.14	0.47
17:3g:207:LEU:HD13	17:3g:225:LEU:HB3	1.95	0.47
17:3g:337:ASN:HB3	17:3g:340:TYR:HD2	1.79	0.47
18:4b:210:TYR:CD1	18:4b:227:LEU:HD21	2.49	0.47
17:4c:145:SER:HB3	17:4c:188:SER:OG	2.14	0.47
17:4c:232:VAL:HG21	17:4c:300:MET:SD	2.54	0.47
17:4e:213:ARG:HD3	17:4e:297:LYS:HB3	1.95	0.47
17:5a:161:ASP:OD1	17:5a:161:ASP:N	2.45	0.47
18:6d:398:MET:N	18:6d:398:MET:SD	2.86	0.47
17:6e:177:ASP:O	18:6f:352:LYS:HA	2.14	0.47
18:6f:5:ILE:HG13	18:6f:132:LEU:HD11	1.95	0.47
17:7a:377:MET:HG3	17:7a:380:ARG:HH22	1.79	0.47
17:7c:113:ILE:HG13	17:7c:117:LEU:HD23	1.95	0.47
18:7d:198:THR:HG21	18:7d:201:ALA:HB2	1.96	0.47
17:7e:101:TRP:CE3	17:7e:403:MET:HE1	2.48	0.47
18:7f:79:ARG:HG3	18:7f:92:LEU:HD22	1.95	0.47
17:8e:86:ARG:HG2	17:8e:88:ASP:H	1.78	0.47
17:9c:130:LEU:O	17:9c:162:ARG:NE	2.47	0.47
18:9d:108:TYR:O	18:9d:112:LYS:HE2	2.14	0.47
18:9f:113:GLU:CD	18:9f:113:GLU:H	2.21	0.47
18:Ad:227:LEU:O	18:Ad:231:ILE:HG13	2.14	0.47
17:Ag:278:SER:HA	17:Ag:281:TYR:CD1	2.49	0.47
17:Ba:299:MET:HE1	17:Ba:367:PHE:HD2	1.79	0.47
18:Bf:201:ALA:O	18:Bf:267:PHE:HA	2.14	0.47
17:Bg:134:GLN:HA	17:Bg:165:LEU:O	2.13	0.47
17:Bg:330:MET:HB3	17:Bg:349:VAL:HG21	1.96	0.47
17:Ca:274:THR:HG22	17:Ca:282:ARG:HD3	1.95	0.47
18:Cf:210:TYR:CE1	17:Cg:324:LYS:HB2	2.49	0.47
3:0J:458:ARG:HE	3:0J:513:LEU:HD13	1.79	0.47
3:0J:474:GLN:HG3	14:1F:522:HIS:CD2	2.49	0.47
5:0N:362:THR:OG1	5:0N:364:CYS:SG	2.69	0.47
5:0N:387:GLN:O	5:0N:391:VAL:HG23	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:0P:135:ARG:NH1	17:Cc:15:GLN:HG3	2.29	0.47
12:0Y:147:LEU:HD11	12:0Y:163:VAL:HG13	1.97	0.47
13:1B:1501:LEU:HD12	13:1B:1609:PHE:CZ	2.48	0.47
13:1C:1150:LEU:HD23	13:1C:1168:MET:HE3	1.97	0.47
14:1E:966:LEU:HD11	14:1E:999:TYR:CE1	2.49	0.47
17:1a:213:ARG:HH21	17:1a:297:LYS:HD2	1.79	0.47
17:1a:374:ILE:HG23	17:1a:377:MET:HE2	1.96	0.47
18:1b:9:ILE:HD13	18:1b:150:GLY:HA2	1.95	0.47
18:1d:70:LEU:HD12	18:1d:99:ALA:HB2	1.96	0.47
17:2e:7:ILE:HB	17:2e:135:VAL:HG22	1.94	0.47
18:3f:386:GLU:O	18:3f:390:ARG:HG3	2.15	0.47
18:3h:36:MET:HG2	18:3h:61:HIS:CE1	2.49	0.47
17:4g:72:THR:O	17:4g:75:SER:OG	2.24	0.47
17:6a:275:SER:OG	17:6a:278:SER:OG	2.27	0.47
17:6c:134:GLN:HA	17:6c:165:LEU:O	2.14	0.47
17:6c:384:GLN:O	17:6c:388:MET:HG2	2.14	0.47
18:6d:237:SER:HA	18:6d:320:ARG:HD2	1.95	0.47
18:7b:88:HIS:HB3	18:7b:91:GLN:HB2	1.96	0.47
17:7c:67:ASP:OD1	17:7c:68:LEU:N	2.46	0.47
17:7c:238:CYS:SG	17:7c:241:ARG:NH2	2.84	0.47
17:7c:260:PHE:HB2	17:7c:263:LEU:HD13	1.95	0.47
18:7d:216:SER:HB3	18:7d:275:ILE:O	2.15	0.47
18:7f:2:ARG:HB3	18:7f:242:LEU:HD12	1.96	0.47
17:7g:163:MET:HE1	17:7g:250:LEU:C	2.38	0.47
18:7h:390:ARG:HA	18:7h:393:HIS:CD2	2.49	0.47
17:8a:311:LEU:HD23	17:8a:342:VAL:HG21	1.96	0.47
18:8f:2:ARG:HB3	18:8f:242:LEU:HD12	1.96	0.47
18:8f:216:SER:HB3	18:8f:275:ILE:O	2.14	0.47
17:8g:145:SER:HB3	17:8g:188:SER:OG	2.14	0.47
17:8g:198:GLU:HG3	17:8g:266:PHE:CE2	2.48	0.47
17:9a:229:ILE:O	17:9a:233:MET:HG3	2.14	0.47
18:9h:70:LEU:HD12	18:9h:99:ALA:HB2	1.95	0.47
17:Aa:184:ASN:OD1	17:Aa:398:TYR:OH	2.20	0.47
18:Ab:216:SER:HB3	18:Ab:275:ILE:O	2.14	0.47
18:Ab:407:TRP:HE1	17:Ac:258:ILE:HB	1.79	0.47
18:Ad:15:GLN:HA	18:Ad:18:ASN:HD22	1.77	0.47
17:Bc:98:GLY:HA2	18:Bd:254:GLU:HG2	1.95	0.47
17:Bc:170:VAL:N	17:Bc:202:LEU:O	2.46	0.47
18:Bd:28:HIS:CE1	18:Bd:243:ARG:HD2	2.49	0.47
17:Bg:91:VAL:HG12	17:Bg:112:LEU:HG	1.96	0.47
18:Bh:227:LEU:O	18:Bh:231:ILE:HG13	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Cd:9:ILE:HD11	18:Cd:153:LEU:HD23	1.96	0.47
17:Cg:7:ILE:HD13	17:Cg:151:LEU:HD21	1.96	0.47
18:Ch:138:PHE:CD1	18:Ch:169:PHE:HB2	2.49	0.47
18:Ch:393:HIS:HA	18:Ch:396:ASP:OD2	2.13	0.47
1:0C:207:MET:HE3	18:Cd:422:ARG:NH1	2.29	0.47
1:0C:538:PRO:HD2	1:0C:556:ASP:HB2	1.95	0.47
1:0D:377:HIS:ND1	1:0D:378:PRO:O	2.47	0.47
2:0E:139:GLU:O	2:0E:143:GLU:HG2	2.14	0.47
5:0M:286:VAL:O	5:0M:290:GLU:HG3	2.14	0.47
5:0N:63:ALA:HB2	5:0N:128:ARG:HB3	1.97	0.47
5:0N:197:LEU:HD22	5:0N:201:ARG:HH21	1.79	0.47
6:0P:28:ASP:O	6:0P:32:LYS:HG2	2.15	0.47
12:0X:106:THR:O	12:0X:111:ARG:NH1	2.47	0.47
12:0Y:121:VAL:HG12	12:0Y:122:PHE:HD1	1.78	0.47
12:0Y:215:VAL:HG13	12:0Y:240:VAL:HG22	1.95	0.47
12:0Z:142:ILE:HG12	12:0Z:147:LEU:HD23	1.96	0.47
13:1B:1473:TRP:HA	13:1B:1476:TRP:CD2	2.49	0.47
14:1G:1019:LEU:HB3	14:1G:1022:GLU:CD	2.38	0.47
17:1c:330:MET:HB3	17:1c:349:VAL:HG11	1.96	0.47
18:1d:222:PRO:HD2	17:1e:324:LYS:HG2	1.97	0.47
18:2b:4:VAL:HG22	18:2b:133:GLN:HB2	1.96	0.47
17:2e:337:ASN:HB3	17:2e:340:TYR:HD2	1.79	0.47
17:3a:203:ASP:OD2	17:3a:302:ALA:N	2.31	0.47
21:3d:501:GTP:O1B	17:3e:252:LYS:NZ	2.41	0.47
18:3h:144:GLY:N	21:3h:501:GTP:O2G	2.47	0.47
17:4a:139:LEU:HD12	17:4a:170:VAL:HG22	1.96	0.47
18:4d:174:SER:HB3	18:4d:207:GLU:HB2	1.96	0.47
18:4h:101:ASN:HA	18:4h:144:GLY:H	1.80	0.47
18:5d:88:HIS:HB3	18:5d:91:GLN:HB2	1.95	0.47
17:5g:36:TYR:OH	17:5g:40:SER:N	2.41	0.47
17:6c:318:ARG:HB2	17:6c:364:SER:OG	2.14	0.47
17:6c:378:PHE:HB3	17:6c:415:MET:SD	2.54	0.47
18:6d:293:ASN:O	18:6d:297:GLU:HG2	2.15	0.47
17:6e:178:THR:OG1	17:6e:181:GLU:HG3	2.15	0.47
17:7a:156:ARG:HH22	17:7a:197:ASP:CG	2.22	0.47
17:7a:268:VAL:HG12	17:7a:368:ILE:HG12	1.95	0.47
17:7g:207:LEU:HD13	17:7g:225:LEU:HB3	1.97	0.47
18:7h:216:SER:HB3	18:7h:275:ILE:O	2.14	0.47
17:8e:138:SER:O	17:8e:145:SER:OG	2.31	0.47
18:9f:426:ALA:O	18:9f:430:LYS:HG2	2.13	0.47
18:Ad:276:ILE:HD12	18:Ad:281:ALA:HA	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ae:274:THR:HG22	17:Ae:282:ARG:HD3	1.95	0.47
17:Ae:375:GLN:HG3	17:Ae:419:VAL:HG13	1.96	0.47
17:Ag:10:GLY:O	17:Ag:14:ASN:ND2	2.47	0.47
17:Be:102:ALA:HB1	17:Be:401:GLU:HB2	1.96	0.47
18:Bf:79:ARG:HG3	18:Bf:92:LEU:HD22	1.96	0.47
17:Ca:252:LYS:HB2	17:Ca:252:LYS:HE3	1.71	0.47
18:Cb:4:VAL:HG22	18:Cb:133:GLN:HB2	1.95	0.47
17:Dc:10:GLY:O	17:Dc:14:ASN:ND2	2.47	0.47
17:De:328:GLU:HG2	17:De:332:ASN:ND2	2.29	0.47
1:0B:470:ALA:HB1	1:0B:497:CYS:HB3	1.96	0.47
1:0C:399:LYS:HZ2	1:0C:401:ARG:C	2.21	0.47
2:0G:118:LEU:HD13	2:0G:141:LEU:HD21	1.96	0.47
3:0J:265:LEU:HB3	3:0J:331:ARG:NH2	2.30	0.47
7:0Q:473:ASP:OD1	7:0Q:473:ASP:N	2.47	0.47
12:0X:97:LYS:HZ3	12:0X:244:GLY:HA2	1.79	0.47
13:1B:1150:LEU:HD23	13:1B:1168:MET:HE2	1.97	0.47
13:1B:1322:LEU:HB2	13:1B:1607:GLN:HG2	1.96	0.47
14:1F:857:LYS:H	14:1F:857:LYS:HD2	1.78	0.47
18:1d:317:LEU:HB3	18:1d:319:TYR:CE1	2.49	0.47
18:2d:172:TYR:OH	18:2d:191:THR:OG1	2.30	0.47
17:2g:100:ASN:HB3	17:2g:103:LYS:HB2	1.96	0.47
17:2g:253:LEU:HD11	17:2g:316:LEU:HD21	1.96	0.47
17:3a:233:MET:O	17:3a:236:ILE:HG22	2.15	0.47
17:3c:86:ARG:HG3	17:4c:281:TYR:HB3	1.96	0.47
17:3c:143:THR:O	17:3c:147:MET:HB2	2.14	0.47
17:3e:31:ASP:OD2	17:3e:33:THR:OG1	2.26	0.47
17:3g:66:MET:CG	17:3g:147:MET:HE3	2.39	0.47
17:3g:253:LEU:HD11	17:3g:316:LEU:HD21	1.96	0.47
17:3g:373:ALA:O	17:3g:376:GLU:HG2	2.14	0.47
17:4a:282:ARG:NH1	17:4a:292:GLN:OE1	2.36	0.47
18:4b:174:SER:HB2	18:4b:177:VAL:O	2.14	0.47
18:4d:88:HIS:HB3	18:4d:91:GLN:HB2	1.96	0.47
17:5c:377:MET:HG3	17:5c:380:ARG:HH22	1.80	0.47
17:6c:6:HIS:HE1	17:6c:233:MET:HE1	1.78	0.47
18:6d:431:ASP:O	18:6d:435:VAL:HG22	2.15	0.47
17:6g:113:ILE:HG13	17:6g:117:LEU:HD23	1.95	0.47
17:7a:313:ALA:O	17:7a:349:VAL:HA	2.14	0.47
17:7e:27:GLU:OE2	17:7e:318:ARG:NH2	2.47	0.47
17:8a:113:ILE:HG13	17:8a:117:LEU:HD23	1.96	0.47
18:8b:244:PHE:O	18:8b:356:ASN:ND2	2.47	0.47
17:8e:330:MET:HB3	17:8e:349:VAL:HG11	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:8f:255:PHE:O	18:8f:259:LEU:HB2	2.15	0.47
17:8g:164:MET:HB3	17:8g:197:ASP:H	1.79	0.47
17:9c:208:TYR:CE1	17:9c:225:LEU:HD11	2.48	0.47
17:9e:289:LEU:HD22	17:9e:363:MET:HE2	1.95	0.47
18:9f:386:GLU:O	18:9f:390:ARG:HG3	2.14	0.47
18:Ah:198:THR:HG21	18:Ah:201:ALA:HB2	1.96	0.47
17:Bc:173:PRO:HA	17:Bc:380:ARG:HD2	1.97	0.47
17:Be:375:GLN:NE2	17:Be:423:GLN:HB2	2.30	0.47
18:Bf:5:ILE:HG13	18:Bf:132:LEU:HD11	1.96	0.47
17:Bg:228:LEU:HD23	17:Bg:300:MET:HE2	1.97	0.47
17:Cc:373:ALA:O	17:Cc:376:GLU:HG2	2.14	0.47
17:Dc:159:TYR:HB3	17:Dc:162:ARG:HG3	1.94	0.47
1:0C:193:GLU:HA	4:0K:98:ARG:HH22	1.80	0.47
3:0J:99:ARG:HG2	3:0J:362:ILE:HD11	1.95	0.47
5:0M:71:ARG:NH1	5:0M:75:ASP:OD2	2.47	0.47
7:0Q:74:THR:HB	7:0Q:104:VAL:HB	1.95	0.47
7:0Q:218:SER:O	7:0Q:218:SER:OG	2.31	0.47
7:0Q:394:ARG:HG2	7:0Q:410:MET:SD	2.54	0.47
12:0Y:301:GLY:N	12:0Y:304:CYS:SG	2.87	0.47
13:1B:1203:LEU:HD23	13:1B:1275:LEU:HA	1.96	0.47
13:1B:1322:LEU:HD23	13:1B:1378:ARG:HG2	1.97	0.47
14:1F:937:LEU:HD13	14:1F:968:GLU:HG3	1.97	0.47
17:1a:417:ASP:O	17:1a:421:GLU:HG2	2.13	0.47
18:1d:298:PRO:HB3	18:1d:307:PRO:HD2	1.97	0.47
18:1h:201:ALA:O	18:1h:267:PHE:HA	2.13	0.47
17:2a:417:ASP:O	17:2a:421:GLU:HG2	2.13	0.47
18:2b:316:CYS:HB3	18:2b:378:ILE:HG23	1.96	0.47
17:2c:6:HIS:O	17:2c:63:ALA:HA	2.14	0.47
17:2c:238:CYS:SG	17:2c:241:ARG:NH2	2.88	0.47
17:2e:139:LEU:HD12	17:2e:170:VAL:HG22	1.94	0.47
17:2e:161:ASP:OD1	17:2e:161:ASP:N	2.44	0.47
17:2g:202:LEU:HD13	17:2g:229:ILE:HG12	1.96	0.47
17:3g:267:MET:HE1	17:3g:373:ALA:HB3	1.96	0.47
17:4c:139:LEU:HD12	17:4c:170:VAL:HG22	1.95	0.47
18:4f:385:GLY:HA2	18:4f:388:PHE:HD2	1.80	0.47
17:4g:177:ASP:O	18:4h:352:LYS:HA	2.15	0.47
17:5c:167:PHE:CE1	17:5c:200:MET:HG3	2.48	0.47
17:6c:179:VAL:HG22	18:6d:350:GLY:HA2	1.96	0.47
18:6d:227:LEU:O	18:6d:231:ILE:HG13	2.15	0.47
18:6d:312:TYR:HA	18:6d:381:SER:HB2	1.95	0.47
21:7b:501:GTP:O1B	17:7c:252:LYS:NZ	2.41	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:8b:316:CYS:HB3	18:8b:378:ILE:HG23	1.97	0.47
18:8b:398:MET:CE	17:8c:346:PRO:HD2	2.41	0.47
18:8h:256:GLN:CD	18:8h:256:GLN:H	2.23	0.47
17:9c:67:ASP:OD1	17:9c:68:LEU:N	2.48	0.47
18:Ab:398:MET:SD	17:Ac:346:PRO:HD2	2.54	0.47
17:Ac:317:PHE:CD2	17:Ac:321:MET:HE1	2.49	0.47
18:Ad:268:MET:HB3	18:Ad:378:ILE:HG13	1.97	0.47
17:Ae:49:VAL:O	17:Ae:62:ARG:NH1	2.47	0.47
17:Ag:178:THR:OG1	17:Ag:181:GLU:HG3	2.15	0.47
17:Bc:308:GLY:HA2	17:Bc:426:GLN:NE2	2.30	0.47
18:Bd:242:LEU:HD21	18:Bd:252:ILE:HG12	1.97	0.47
17:Ca:382:SER:OG	17:Ca:415:MET:HE3	2.14	0.47
17:Cc:252:LYS:HB2	17:Cc:252:LYS:HE3	1.72	0.47
18:Cd:174:SER:HB3	18:Cd:207:GLU:HB2	1.96	0.47
18:Cd:222:PRO:HD2	17:Ce:324:LYS:HG2	1.97	0.47
18:Cf:293:ASN:O	18:Cf:297:GLU:HG2	2.14	0.47
17:De:139:LEU:HG	17:De:168:SER:HB3	1.97	0.47
1:0C:449:ARG:HD2	17:De:262:ARG:HD2	1.95	0.47
5:0M:257:ARG:HB2	18:Cf:278:ALA:HB2	1.97	0.47
5:0M:391:VAL:HA	5:0M:394:VAL:HG22	1.96	0.47
7:0Q:81:SER:OG	7:0Q:100:HIS:O	2.32	0.47
7:0Q:458:MET:HE1	7:0Q:489:TRP:HB3	1.96	0.47
7:0Q:553:ALA:O	7:0Q:561:PHE:HB2	2.14	0.47
10:0V:1:UNK:H2	18:2b:123:ARG:HE	1.63	0.47
12:0X:131:LYS:HG3	12:0X:224:THR:HA	1.96	0.47
12:1A:9:PHE:CE2	12:1A:57:GLY:HA3	2.50	0.47
13:1B:1689:TYR:O	18:Bf:263:PRO:HG2	2.14	0.47
17:1a:99:ASN:HA	17:1a:142:GLY:H	1.80	0.47
17:1e:64:ILE:HG12	17:1e:119:VAL:HG12	1.96	0.47
17:2e:73:MET:HA	17:2e:76:VAL:HB	1.96	0.47
18:2f:88:HIS:HB3	18:2f:91:GLN:HB2	1.95	0.47
18:2f:181:VAL:O	18:2f:398:MET:HE1	2.15	0.47
18:3b:138:PHE:CD1	18:3b:169:PHE:HB2	2.49	0.47
17:3g:202:LEU:HD13	17:3g:229:ILE:HG12	1.96	0.47
17:3g:252:LYS:HB2	17:3g:252:LYS:HE3	1.67	0.47
17:4a:100:ASN:HB3	17:4a:103:LYS:HB2	1.97	0.47
17:4e:87:PRO:HG2	17:5e:278:SER:HB3	1.95	0.47
17:4e:139:LEU:HG	17:4e:168:SER:HB3	1.96	0.47
18:4f:259:LEU:HD22	18:4f:268:MET:HE1	1.97	0.47
18:4h:255:PHE:O	18:4h:259:LEU:HB2	2.14	0.47
17:5a:244:GLY:HA2	17:5a:354:CYS:HA	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:5b:360:PRO:HG3	18:5b:374:ALA:HB2	1.96	0.47
18:5h:210:TYR:CD1	18:5h:227:LEU:HD21	2.49	0.47
18:6b:293:ASN:O	18:6b:297:GLU:HG2	2.15	0.47
17:7g:113:ILE:HG13	17:7g:117:LEU:HD23	1.96	0.47
17:8a:274:THR:HG22	17:8a:282:ARG:HD3	1.97	0.47
17:8c:215:LEU:HB3	17:8c:217:LEU:HD13	1.97	0.47
17:8g:113:ILE:HG13	17:8g:117:LEU:HD23	1.96	0.47
17:9g:398:TYR:HB3	17:9g:403:MET:HE3	1.97	0.47
18:Ab:105:ARG:HG2	18:Ab:110:ILE:HD12	1.97	0.47
18:Ab:222:PRO:HD2	17:Ac:324:LYS:HG2	1.95	0.47
17:Ac:200:MET:HE1	17:Ac:266:PHE:HB2	1.96	0.47
18:Af:174:SER:HB3	18:Af:207:GLU:HB2	1.96	0.47
17:Ag:293:MET:HG3	17:Ag:367:PHE:HB2	1.97	0.47
17:Bc:253:LEU:HD11	17:Bc:316:LEU:HD21	1.95	0.47
17:Bg:110:ALA:O	17:Bg:113:ILE:HG22	2.14	0.47
18:Cd:88:HIS:HB3	18:Cd:91:GLN:HB2	1.96	0.47
18:Df:70:LEU:HD21	18:Df:149:LEU:HD22	1.95	0.47
18:Df:174:SER:HB3	18:Df:207:GLU:HB2	1.94	0.47
1:0A:160:ARG:HG2	1:0A:164:LYS:NZ	2.30	0.47
1:0A:168:GLN:NE2	17:Ba:262:ARG:HD3	2.29	0.47
1:0A:292:ALA:HA	1:0A:295:ASN:HD22	1.78	0.47
1:0B:75:ILE:HG22	1:0B:111:SER:HB3	1.95	0.47
1:0B:582:GLN:HG2	1:0B:597:GLY:HA2	1.97	0.47
1:0C:466:SER:HA	1:0C:479:TRP:O	2.15	0.47
1:0D:470:ALA:HB2	1:0D:500:VAL:HB	1.95	0.47
3:0I:361:PRO:O	3:0I:363:THR:HG23	2.14	0.47
3:0I:464:GLN:HA	14:1G:942:MET:HE3	1.97	0.47
3:0I:550:GLU:O	3:0I:554:GLU:OE1	2.33	0.47
3:0I:553:ALA:HA	3:0I:556:GLU:CD	2.40	0.47
5:0M:345:LEU:HD12	5:0M:412:LEU:HD23	1.97	0.47
7:0Q:138:VAL:HG21	7:0Q:186:VAL:HG23	1.96	0.47
7:0S:21:SER:HB2	7:0S:293:SER:HB2	1.96	0.47
7:0S:180:ASP:O	7:0S:184:GLY:N	2.46	0.47
13:1B:1116:VAL:HA	13:1B:1188:HIS:O	2.14	0.47
13:1B:1168:MET:SD	13:1B:1284:ARG:HB2	2.54	0.47
13:1B:1607:GLN:OE1	13:1B:1609:PHE:HB3	2.15	0.47
14:1D:912:LEU:HG	14:1G:400:ARG:HH21	1.80	0.47
14:1F:761:LEU:HD11	14:1F:802:LEU:HD11	1.97	0.47
14:1G:929:ARG:HE	14:1G:960:TRP:HE1	1.61	0.47
16:1M:41:UNK:C	16:1M:43:UNK:N	2.78	0.47
17:1e:247:ASN:C	17:1e:247:ASN:ND2	2.73	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1e:373:ALA:O	17:1e:376:GLU:HG2	2.15	0.47
17:1e:417:ASP:O	17:1e:421:GLU:HG2	2.14	0.47
17:2a:116:VAL:HG21	17:2a:147:MET:HE2	1.96	0.47
17:2a:159:TYR:HB3	17:2a:162:ARG:HG3	1.97	0.47
17:2a:215:LEU:HB3	17:2a:217:LEU:HD13	1.97	0.47
18:2b:311:LYS:H	18:2b:382:THR:HG22	1.79	0.47
17:2c:10:GLY:O	17:2c:14:ASN:ND2	2.47	0.47
17:2c:159:TYR:HB3	17:2c:162:ARG:HG3	1.97	0.47
18:2d:217:LEU:HD21	18:2d:368:LEU:HD23	1.96	0.47
18:2h:268:MET:HE1	18:2h:380:ASN:HB2	1.95	0.47
17:3a:10:GLY:O	17:3a:14:ASN:ND2	2.48	0.47
17:3a:253:LEU:HD11	17:3a:316:LEU:HD21	1.96	0.47
18:3b:386:GLU:O	18:3b:390:ARG:HG3	2.14	0.47
18:3d:174:SER:HB2	18:3d:177:VAL:O	2.14	0.47
18:3d:202:VAL:C	18:3d:203:MET:HE2	2.40	0.47
18:3d:386:GLU:O	18:3d:390:ARG:HG3	2.15	0.47
18:3f:70:LEU:HD12	18:3f:99:ALA:HB2	1.95	0.47
18:3f:311:LYS:H	18:3f:382:THR:HG22	1.80	0.47
18:3h:102:ASN:ND2	18:3h:411:GLU:OE1	2.47	0.47
18:3h:105:ARG:HG2	18:3h:110:ILE:HD12	1.96	0.47
17:4a:145:SER:HB3	17:4a:188:SER:OG	2.15	0.47
18:4b:33:ASP:HA	18:4b:85:GLN:HE21	1.80	0.47
18:4b:79:ARG:NH1	18:4b:94:SER:OG	2.47	0.47
17:4c:377:MET:HG2	17:4c:380:ARG:HH22	1.79	0.47
18:4h:293:ASN:O	18:4h:297:GLU:HG2	2.14	0.47
17:5a:99:ASN:HA	17:5a:142:GLY:H	1.78	0.47
18:5b:203:MET:SD	18:5b:387:ILE:HD11	2.54	0.47
18:5b:390:ARG:HA	18:5b:393:HIS:CD2	2.50	0.47
17:5c:140:GLY:HA2	17:5c:184:ASN:HB2	1.96	0.47
17:5c:198:GLU:HG3	17:5c:266:PHE:HE2	1.79	0.47
18:5d:409:VAL:HA	18:5d:413:MET:HB2	1.96	0.47
17:5e:94:GLN:HG2	18:5f:1:MET:HE3	1.97	0.47
18:5f:9:ILE:HD13	18:5f:150:GLY:HA2	1.95	0.47
18:5h:16:VAL:HA	18:5h:228:ASN:HB3	1.97	0.47
18:6b:385:GLY:HA2	18:6b:388:PHE:HD2	1.79	0.47
17:6c:318:ARG:HB3	17:6c:357:PRO:HA	1.96	0.47
17:6e:139:LEU:HG	17:6e:168:SER:HB3	1.97	0.47
18:6f:4:VAL:HG22	18:6f:133:GLN:HB2	1.97	0.47
18:6f:293:ASN:O	18:6f:297:GLU:HG2	2.15	0.47
18:6h:145:THR:N	21:6h:501:GTP:O2G	2.34	0.47
17:7a:140:GLY:HA2	17:7a:184:ASN:HB2	1.95	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:7b:15:GLN:HB3	18:7b:228:ASN:ND2	2.29	0.47
18:7b:96:LYS:HE3	17:7c:129:CYS:HB2	1.97	0.47
18:7d:293:ASN:O	18:7d:297:GLU:HG2	2.13	0.47
18:7f:76:ASP:OD2	17:7g:46:ARG:NH2	2.47	0.47
18:7f:265:ILE:HG21	18:7f:313:MET:HE1	1.95	0.47
17:7g:178:THR:OG1	17:7g:181:GLU:HG3	2.14	0.47
18:7h:169:PHE:HZ	18:7h:238:LEU:HD13	1.79	0.47
17:8c:112:LEU:HD23	17:8c:147:MET:HE2	1.97	0.47
17:8c:237:THR:OG1	17:8c:241:ARG:NH1	2.48	0.47
18:8h:144:GLY:N	21:8h:501:GTP:O2G	2.47	0.47
18:9b:242:LEU:HD21	18:9b:252:ILE:HG12	1.97	0.47
17:9c:72:THR:O	17:9c:75:SER:OG	2.28	0.47
17:9c:99:ASN:HA	17:9c:142:GLY:N	2.29	0.47
18:9d:11:GLN:N	21:9d:501:GTP:O1A	2.45	0.47
17:9e:233:MET:O	17:9e:236:ILE:HG22	2.15	0.47
17:Aa:20:PHE:HA	17:Aa:230:SER:HB2	1.96	0.47
18:Ab:255:PHE:O	18:Ab:259:LEU:HB2	2.15	0.47
17:Ac:311:LEU:HD23	17:Ac:342:VAL:HG21	1.97	0.47
17:Ae:36:TYR:OH	17:Ae:40:SER:N	2.37	0.47
17:Ae:170:VAL:N	17:Ae:202:LEU:O	2.48	0.47
17:Ae:178:THR:OG1	17:Ae:181:GLU:HG3	2.14	0.47
17:Ae:229:ILE:HG22	17:Ae:233:MET:HE2	1.96	0.47
18:Af:188:VAL:HG13	18:Af:425:LEU:HD22	1.95	0.47
18:Af:217:LEU:HD21	18:Af:368:LEU:HD23	1.96	0.47
17:Ag:113:ILE:HG13	17:Ag:117:LEU:HD23	1.97	0.47
18:Ah:293:ASN:O	18:Ah:297:GLU:HG3	2.14	0.47
18:Bb:138:PHE:CD1	18:Bb:169:PHE:HB2	2.50	0.47
18:Bd:268:MET:HE3	18:Bd:378:ILE:HG12	1.95	0.47
18:Bd:360:PRO:HG3	18:Bd:374:ALA:HB2	1.97	0.47
18:Bf:316:CYS:HB3	18:Bf:378:ILE:HG23	1.97	0.47
18:Bh:11:GLN:N	21:Bh:501:GTP:O1A	2.46	0.47
18:Bh:220:GLU:C	18:Bh:222:PRO:HD3	2.40	0.47
17:Ca:86:ARG:HG3	17:Da:281:TYR:HB3	1.97	0.47
18:Cb:202:VAL:C	18:Cb:203:MET:HE2	2.40	0.47
18:Cb:265:ILE:HG21	18:Cb:313:MET:HE1	1.96	0.47
18:Cb:386:GLU:O	18:Cb:390:ARG:HG3	2.15	0.47
17:Cg:247:ASN:C	17:Cg:247:ASN:ND2	2.73	0.47
18:Ch:174:SER:HB2	18:Ch:177:VAL:O	2.15	0.47
18:Ch:200:VAL:HG23	18:Ch:256:GLN:HG3	1.95	0.47
17:Da:99:ASN:HA	17:Da:142:GLY:H	1.80	0.47
17:Dc:42:LEU:HD22	17:Dc:356:ILE:HD11	1.95	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Dc:317:PHE:HB3	17:Dc:321:MET:CE	2.38	0.47
18:Dd:263:PRO:O	18:Dd:266:HIS:ND1	2.41	0.47
17:De:238:CYS:SG	17:De:241:ARG:NH2	2.87	0.47
18:Df:4:VAL:HG22	18:Df:133:GLN:HB2	1.97	0.47
17:Dg:138:SER:OG	20:Dg:501:GDP:O1A	2.32	0.47
17:Dg:178:THR:OG1	17:Dg:181:GLU:HG3	2.14	0.47
16:1L:41:UNK:C	16:1L:43:UNK:N	2.78	0.47
1:0C:102:LEU:HD21	1:0C:108:LEU:HB2	1.97	0.47
1:0D:430:LEU:HD12	1:0D:454:SER:HB2	1.97	0.47
3:0I:250:PRO:HB2	3:0I:344:VAL:HG13	1.95	0.47
5:0M:372:MET:HE3	5:0M:392:MET:CE	2.42	0.47
12:1A:291:LYS:HD3	12:1A:291:LYS:HA	1.74	0.47
13:1B:1239:LEU:O	13:1B:1261:PHE:HA	2.14	0.47
13:1C:1684:LEU:HD22	13:1C:1689:TYR:HD1	1.80	0.47
14:1E:481:ASP:O	14:1E:484:LYS:HG2	2.14	0.47
17:1a:247:ASN:C	17:1a:247:ASN:ND2	2.73	0.47
17:1e:73:MET:HE1	17:1e:91:VAL:N	2.30	0.47
18:1f:70:LEU:HD21	18:1f:149:LEU:HD22	1.96	0.47
17:1g:40:SER:HB3	17:1g:43:GLN:HG3	1.97	0.47
18:2d:2:ARG:HB3	18:2d:242:LEU:HD12	1.95	0.47
18:2d:60:LYS:HZ1	18:3d:283:HIS:CE1	2.32	0.47
18:2d:138:PHE:CD1	18:2d:169:PHE:HB2	2.50	0.47
18:2f:216:SER:HB3	18:2f:275:ILE:O	2.15	0.47
17:2g:203:ASP:OD2	17:2g:302:ALA:N	2.35	0.47
18:2h:174:SER:HB2	18:2h:177:VAL:O	2.15	0.47
17:4a:89:ASN:ND2	17:4a:123:GLU:OE2	2.46	0.47
17:4c:177:ASP:O	18:4d:352:LYS:HA	2.14	0.47
17:5a:344:TRP:CD2	18:5h:401:LYS:HG3	2.50	0.47
18:5b:252:ILE:HA	18:5b:255:PHE:HD2	1.79	0.47
18:5b:399:TYR:O	18:5b:402:ARG:NH1	2.42	0.47
17:6a:129:CYS:HB2	18:6h:96:LYS:HE3	1.96	0.47
18:6b:174:SER:HB2	18:6b:177:VAL:O	2.15	0.47
18:6b:386:GLU:O	18:6b:390:ARG:HG3	2.14	0.47
17:6c:317:PHE:HB3	17:6c:321:MET:SD	2.54	0.47
18:6d:407:TRP:HE1	17:6e:258:ILE:HB	1.79	0.47
17:6g:293:MET:CE	17:6g:367:PHE:HB2	2.43	0.47
18:6h:205:ASP:OD2	18:6h:303:VAL:HG13	2.15	0.47
17:7c:12:CYS:HB2	20:7c:501:GDP:C8	2.49	0.47
17:7e:260:PHE:HB2	17:7e:263:LEU:HD13	1.97	0.47
17:8a:73:MET:HA	17:8a:76:VAL:HB	1.96	0.47
17:8a:346:PRO:HD2	18:8h:398:MET:SD	2.54	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:8d:222:PRO:HD2	17:8e:324:LYS:HG2	1.95	0.47
17:8e:198:GLU:HG3	17:8e:266:PHE:CE2	2.45	0.47
17:8g:49:VAL:O	17:8g:62:ARG:NH1	2.46	0.47
18:9f:70:LEU:HD21	18:9f:149:LEU:HD22	1.95	0.47
17:Aa:49:VAL:O	17:Aa:62:ARG:NH1	2.47	0.47
17:Ac:49:VAL:O	17:Ac:62:ARG:NH1	2.48	0.47
17:Bc:49:VAL:O	17:Bc:62:ARG:NH1	2.48	0.47
17:Ca:174:LYS:HB2	17:Ca:205:GLU:OE2	2.15	0.47
18:Cb:216:SER:HB3	18:Cb:275:ILE:O	2.15	0.47
17:Cc:86:ARG:HG2	17:Cc:88:ASP:H	1.80	0.47
18:Cf:81:GLY:O	18:Cf:84:ARG:HG3	2.15	0.47
17:Cg:100:ASN:HB3	17:Cg:103:LYS:HB2	1.97	0.47
18:Dd:4:VAL:HG22	18:Dd:133:GLN:HB2	1.97	0.47
1:0A:543:CYS:SG	1:0A:585:LEU:HD12	2.54	0.47
1:0D:203:LYS:HG3	18:Ch:422:ARG:HH22	1.79	0.47
3:0I:313:TRP:HE1	18:Bh:158:SER:HB3	1.80	0.47
7:0Q:506:PHE:HD1	7:0Q:522:THR:HG22	1.79	0.47
7:0S:335:ALA:HB3	7:0S:338:GLN:HB2	1.96	0.47
12:1A:37:LYS:HE2	12:1A:46:ASN:HB2	1.97	0.47
13:1C:1138:HIS:O	13:1C:1281:LYS:NZ	2.33	0.47
14:1F:631:ALA:HA	14:1F:638:PRO:HG2	1.97	0.47
14:1F:955:PRO:HB2	14:1F:986:LEU:H	1.79	0.47
14:1G:914:ALA:HB1	14:1G:924:TRP:CE2	2.50	0.47
17:1c:11:GLN:HB2	17:1c:72:THR:HG21	1.95	0.47
17:1c:139:LEU:HG	17:1c:168:SER:HB3	1.96	0.47
17:1g:159:TYR:HB3	17:1g:162:ARG:HG3	1.97	0.47
17:3c:282:ARG:NH1	17:3c:292:GLN:OE1	2.33	0.47
18:3f:11:GLN:N	21:3f:501:GTP:O1A	2.45	0.47
18:3h:21:TRP:CZ2	18:3h:65:CYS:HB2	2.49	0.47
17:4e:375:GLN:HG3	17:4e:419:VAL:HG13	1.97	0.47
17:5a:253:LEU:HD11	17:5a:316:LEU:HD21	1.97	0.47
17:5c:178:THR:OG1	17:5c:181:GLU:HG3	2.15	0.47
17:5c:299:MET:HE1	17:5c:367:PHE:CD2	2.50	0.47
18:5d:76:ASP:OD2	17:5e:46:ARG:NH2	2.48	0.47
18:5d:259:LEU:HD13	18:5d:268:MET:HE2	1.97	0.47
18:5f:174:SER:HB2	18:5f:177:VAL:O	2.15	0.47
17:5g:118:ASP:OD1	17:5g:121:ARG:NH2	2.48	0.47
17:5g:161:ASP:OD1	17:5g:161:ASP:N	2.45	0.47
18:6h:15:GLN:HA	18:6h:18:ASN:HD22	1.80	0.47
17:7e:178:THR:OG1	17:7e:181:GLU:HG3	2.15	0.47
18:7f:137:VAL:HG21	18:7f:154:LEU:HD21	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:7f:259:LEU:HD13	18:7f:268:MET:HE2	1.96	0.47
17:7g:167:PHE:CG	17:7g:233:MET:HE2	2.50	0.47
17:8a:167:PHE:HA	17:8a:200:MET:HB2	1.96	0.47
17:8c:417:ASP:O	17:8c:421:GLU:HG2	2.14	0.47
18:8f:210:TYR:CD1	18:8f:222:PRO:HB2	2.50	0.47
17:9a:324:LYS:HB2	18:9h:210:TYR:CE1	2.50	0.47
18:9d:26:LEU:HD21	18:9d:364:PRO:HD2	1.97	0.47
18:9d:222:PRO:HD2	17:9e:324:LYS:HG2	1.97	0.47
17:9e:397:TRP:O	17:9e:401:GLU:HG2	2.15	0.47
17:Aa:274:THR:HG22	17:Aa:282:ARG:HD3	1.95	0.47
18:Ab:385:GLY:HA2	18:Ab:388:PHE:HD2	1.79	0.47
18:Af:251:ASP:HB2	18:Af:254:GLU:HG3	1.97	0.47
18:Af:385:GLY:HA2	18:Af:388:PHE:HD2	1.80	0.47
17:Ag:208:TYR:CE1	17:Ag:225:LEU:HD11	2.49	0.47
18:Bb:215:ARG:HH22	18:Bb:300:SER:HA	1.80	0.47
18:Bb:242:LEU:HD21	18:Bb:252:ILE:HG12	1.97	0.47
18:Bd:259:LEU:HD22	18:Bd:268:MET:HE1	1.96	0.47
17:Be:228:LEU:HB3	17:Be:300:MET:CE	2.45	0.47
17:Be:247:ASN:C	17:Be:247:ASN:ND2	2.73	0.47
18:Bf:79:ARG:NH1	18:Bf:94:SER:OG	2.48	0.47
18:Bf:422:ARG:HH12	18:Bf:426:ALA:HB2	1.80	0.47
17:Bg:10:GLY:HA2	17:Bg:143:THR:HG23	1.97	0.47
17:Ce:377:MET:HG2	17:Ce:380:ARG:HH22	1.80	0.47
18:Cf:192:HIS:CD2	18:Cf:421:ALA:HA	2.50	0.47
18:Dh:215:ARG:HA	18:Dh:215:ARG:NE	2.30	0.47
1:0A:339:PRO:HB2	1:0A:356:PRO:HD3	1.97	0.47
2:0F:33:PHE:C	18:Dd:264:ARG:HG3	2.40	0.47
13:1B:1138:HIS:HB3	13:1B:1283:LEU:HD11	1.97	0.47
14:1G:502:SER:O	14:1G:506:MET:HG2	2.15	0.47
17:1e:67:ASP:OD2	17:1e:72:THR:OG1	2.22	0.47
17:2a:46:ARG:NH2	18:2h:76:ASP:OD2	2.48	0.47
18:2d:386:GLU:O	18:2d:390:ARG:HG3	2.15	0.47
18:2f:386:GLU:O	18:2f:390:ARG:HG3	2.15	0.47
18:2h:174:SER:HB3	18:2h:207:GLU:HB2	1.96	0.47
17:3a:161:ASP:OD1	17:3a:161:ASP:N	2.44	0.47
18:3b:222:PRO:HD2	17:3c:324:LYS:HG2	1.97	0.47
18:4d:174:SER:HB2	18:4d:177:VAL:O	2.15	0.47
17:4e:130:LEU:O	17:4e:162:ARG:NE	2.48	0.47
18:4f:216:SER:HB3	18:4f:275:ILE:O	2.14	0.47
18:6b:316:CYS:HB3	18:6b:378:ILE:HG23	1.96	0.47
18:6d:217:LEU:HD21	18:6d:368:LEU:HD23	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6f:227:LEU:O	18:6f:231:ILE:HG13	2.15	0.47
17:7a:99:ASN:HA	17:7a:142:GLY:H	1.80	0.47
17:7a:273:LEU:N	17:7a:292:GLN:HE22	2.12	0.47
17:7e:67:ASP:O	17:7e:92:PHE:HA	2.15	0.47
17:7e:200:MET:HE1	17:7e:266:PHE:HD2	1.80	0.47
17:7g:12:CYS:HB2	20:7g:501:GDP:C8	2.49	0.47
18:7h:138:PHE:CD1	18:7h:169:PHE:HB2	2.49	0.47
17:9a:260:PHE:HB2	17:9a:263:LEU:HD13	1.96	0.47
18:9b:96:LYS:HE3	17:9c:129:CYS:HB2	1.97	0.47
17:9g:397:TRP:O	17:9g:401:GLU:HG2	2.15	0.47
18:Ad:79:ARG:NH2	18:Ad:92:LEU:O	2.48	0.47
18:Af:101:ASN:OD1	21:Af:501:GTP:O1G	2.32	0.47
17:Ag:321:MET:SD	17:Ag:363:MET:HE3	2.55	0.47
18:Ah:174:SER:HB2	18:Ah:177:VAL:O	2.14	0.47
17:Ba:174:LYS:HB3	17:Ba:205:GLU:OE2	2.15	0.47
17:Bc:262:ARG:NH1	17:Bc:414:ASN:OD1	2.48	0.47
18:Bd:234:VAL:O	18:Bd:237:SER:OG	2.26	0.47
17:Be:299:MET:N	17:Be:299:MET:HE2	2.29	0.47
17:Bg:98:GLY:HA2	18:Bh:254:GLU:HG2	1.96	0.47
18:Bh:16:VAL:HA	18:Bh:228:ASN:HB3	1.95	0.47
18:Bh:318:MET:HA	18:Bh:318:MET:HE3	1.96	0.47
17:Ca:10:GLY:HA2	17:Ca:143:THR:HG23	1.96	0.47
17:Cc:247:ASN:C	17:Cc:247:ASN:ND2	2.74	0.47
17:Cg:207:LEU:HD13	17:Cg:225:LEU:HB3	1.97	0.47
17:Dc:130:LEU:O	17:Dc:162:ARG:NE	2.48	0.47
17:De:6:HIS:HE1	17:De:233:MET:HE1	1.81	0.47
17:De:201:VAL:HG11	17:De:377:MET:CE	2.45	0.47
17:Dg:68:LEU:HD12	17:Dg:97:ALA:HB2	1.97	0.47
1:0B:160:ARG:HG2	1:0C:159:HIS:NE2	2.30	0.46
2:0G:68:VAL:HG12	2:0G:126:CYS:SG	2.54	0.46
3:0I:311:ARG:HG2	3:0I:311:ARG:O	2.15	0.46
7:0Q:547:LYS:HB3	7:0Q:566:ALA:HB3	1.97	0.46
13:1C:1499:VAL:O	13:1C:1735:LEU:HA	2.15	0.46
17:1c:260:PHE:HB2	17:1c:263:LEU:HD13	1.97	0.46
17:1g:233:MET:O	17:1g:236:ILE:HG22	2.15	0.46
18:1h:30:ILE:HA	18:1h:36:MET:HB3	1.96	0.46
18:1h:360:PRO:HG3	18:1h:374:ALA:HB2	1.97	0.46
17:2c:99:ASN:HA	17:2c:142:GLY:N	2.30	0.46
17:2c:109:GLY:HA3	17:2c:147:MET:HE3	1.97	0.46
18:2d:133:GLN:O	18:2d:165:SER:OG	2.32	0.46
17:2e:73:MET:O	17:2e:77:ARG:HG2	2.14	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2f:233:GLN:HG3	18:2f:368:LEU:HD12	1.96	0.46
17:3a:67:ASP:O	17:3a:92:PHE:HA	2.16	0.46
17:3c:7:ILE:HD12	17:3c:135:VAL:HG22	1.97	0.46
17:3c:99:ASN:HA	17:3c:142:GLY:H	1.79	0.46
17:3c:198:GLU:HG3	17:3c:266:PHE:CE2	2.45	0.46
17:4e:238:CYS:SG	17:4e:241:ARG:NH2	2.87	0.46
17:4g:187:LEU:HD22	17:4g:403:MET:HE1	1.98	0.46
18:4h:254:GLU:OE1	18:4h:254:GLU:N	2.48	0.46
17:5c:253:LEU:HD11	17:5c:316:LEU:HD21	1.97	0.46
17:6a:66:MET:SD	17:6a:147:MET:HE2	2.56	0.46
18:6d:210:TYR:CD1	18:6d:222:PRO:HB2	2.50	0.46
17:6e:167:PHE:CG	17:6e:233:MET:HE2	2.50	0.46
18:7f:201:ALA:O	18:7f:267:PHE:HA	2.15	0.46
17:7g:341:PHE:HB3	17:7g:348:ASN:ND2	2.30	0.46
17:8a:321:MET:HE2	17:8a:363:MET:HB3	1.96	0.46
17:9a:50:TYR:CE2	17:9a:241:ARG:HD3	2.50	0.46
17:9a:247:ASN:C	17:9a:247:ASN:ND2	2.73	0.46
18:9d:121:ARG:O	18:9d:121:ARG:HD3	2.16	0.46
17:9e:107:THR:OG1	17:9e:108:GLU:N	2.48	0.46
18:9h:70:LEU:HA	18:9h:95:GLY:HA3	1.97	0.46
18:9h:210:TYR:CE1	18:9h:227:LEU:HD11	2.50	0.46
17:Ac:134:GLN:HA	17:Ac:165:LEU:O	2.15	0.46
18:Ad:223:THR:O	18:Ad:227:LEU:HG	2.15	0.46
17:Ae:200:MET:HE1	17:Ae:266:PHE:HD2	1.81	0.46
17:Bg:259:PRO:HB2	17:Bg:260:PHE:CD2	2.50	0.46
17:Bg:406:MET:HA	17:Bg:409:THR:HG22	1.96	0.46
18:Cd:311:LYS:H	18:Cd:382:THR:HG22	1.80	0.46
18:Cd:386:GLU:O	18:Cd:390:ARG:HG3	2.15	0.46
18:Cf:138:PHE:CD1	18:Cf:169:PHE:HB2	2.50	0.46
18:Cf:269:LEU:HD21	18:Cf:384:ILE:HG22	1.97	0.46
18:Ch:293:ASN:O	18:Ch:297:GLU:HG2	2.14	0.46
18:Dh:263:PRO:O	18:Dh:266:HIS:ND1	2.43	0.46
1:0B:152:PHE:CD2	1:0C:149:TRP:HB2	2.49	0.46
5:0M:240:ARG:HH11	17:Bg:41:ASP:H	1.62	0.46
5:0N:643:GLY:O	17:1e:320:ARG:NH1	2.48	0.46
12:0Y:210:SER:N	19:0Y:801:ADP:O3B	2.34	0.46
13:1B:1473:TRP:HA	13:1B:1476:TRP:CE2	2.50	0.46
13:1C:1325:TYR:HE2	13:1C:1403:ILE:HD13	1.80	0.46
14:1D:1023:SER:C	14:1D:1027:ARG:HH21	2.23	0.46
14:1F:816:GLU:HA	14:1F:819:LEU:HG	1.96	0.46
14:1F:905:PHE:HA	14:1F:908:ASP:OD2	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1b:169:PHE:HZ	18:1b:238:LEU:HD13	1.80	0.46
18:1d:262:TYR:HD2	18:1d:265:ILE:HD13	1.81	0.46
18:3d:64:ARG:NH1	18:3d:129:CYS:SG	2.89	0.46
17:4a:324:LYS:HG2	18:4h:222:PRO:HD2	1.98	0.46
17:4e:373:ALA:O	17:4e:376:GLU:HG2	2.16	0.46
18:4h:21:TRP:CZ2	18:4h:65:CYS:HB2	2.49	0.46
18:5d:26:LEU:HD12	18:5d:363:VAL:HG22	1.97	0.46
18:5d:101:ASN:HA	18:5d:144:GLY:H	1.79	0.46
18:5d:318:MET:HB2	18:5d:376:CYS:HB3	1.96	0.46
18:5f:103:PHE:HD1	18:5f:413:MET:HE1	1.79	0.46
17:6c:271:THR:OG1	17:6c:293:MET:SD	2.59	0.46
17:6c:274:THR:HG22	17:6c:282:ARG:HD3	1.96	0.46
17:6g:247:ASN:C	17:6g:247:ASN:ND2	2.74	0.46
18:7b:188:VAL:HG13	18:7b:425:LEU:HD22	1.97	0.46
17:7e:167:PHE:CE1	17:7e:200:MET:HG3	2.50	0.46
17:7g:212:PHE:HD1	18:7h:326:LYS:HZ1	1.63	0.46
18:8d:174:SER:HB3	18:8d:207:GLU:HB2	1.97	0.46
18:8d:293:ASN:O	18:8d:297:GLU:HG2	2.16	0.46
18:8f:174:SER:HB2	18:8f:177:VAL:O	2.15	0.46
18:8f:250:VAL:HA	18:8f:254:GLU:OE2	2.15	0.46
17:8g:177:ASP:O	18:8h:352:LYS:HA	2.14	0.46
17:9a:334:GLN:HE22	17:9a:347:ASN:HA	1.80	0.46
18:9d:137:VAL:HG21	18:9d:154:LEU:HD21	1.97	0.46
18:9f:9:ILE:HD11	18:9f:153:LEU:HD23	1.95	0.46
18:Ab:386:GLU:O	18:Ab:390:ARG:HG3	2.15	0.46
17:Ac:35:THR:OG1	17:Ac:37:HIS:NE2	2.36	0.46
17:Ae:373:ALA:O	17:Ae:376:GLU:HG2	2.14	0.46
18:Af:88:HIS:HA	18:Bf:283:HIS:CE1	2.49	0.46
17:Ca:289:LEU:O	17:Ca:293:MET:HG3	2.15	0.46
17:Cc:375:GLN:NE2	17:Cc:423:GLN:HB2	2.30	0.46
17:Cg:31:ASP:OD2	17:Cg:33:THR:OG1	2.28	0.46
18:Ch:386:GLU:O	18:Ch:390:ARG:HG3	2.15	0.46
17:Dc:267:MET:SD	17:Dc:305:PRO:HG3	2.55	0.46
18:Dd:234:VAL:CG2	18:Dd:302:MET:HE1	2.40	0.46
17:De:207:LEU:HD13	17:De:225:LEU:HB3	1.97	0.46
1:0C:479:TRP:CZ3	1:0C:486:CYS:HB2	2.49	0.46
1:0D:406:PHE:HB3	1:0D:437:TRP:CH2	2.50	0.46
3:0I:135:MET:SD	3:0I:142:ARG:NH1	2.81	0.46
5:0N:628:ILE:HB	17:1e:227:HIS:CE1	2.50	0.46
5:0N:659:PHE:O	17:1e:320:ARG:HD2	2.16	0.46
6:0O:98:ARG:HD3	17:Dg:80:PRO:HA	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0S:465:ILE:HD13	7:0S:480:ALA:HA	1.97	0.46
12:1A:68:TYR:CB	12:1A:116:ARG:HE	2.29	0.46
13:1B:1659:ALA:HB3	13:1B:1660:PRO:HD3	1.97	0.46
13:1B:1691:THR:HB	18:Bf:196:GLU:HA	1.96	0.46
14:1D:966:LEU:HD23	14:1D:966:LEU:HA	1.77	0.46
14:1G:544:VAL:HG21	14:1G:548:GLN:HE21	1.80	0.46
14:1G:631:ALA:HA	14:1G:638:PRO:HG2	1.96	0.46
14:1G:761:LEU:HD11	14:1G:802:LEU:HD11	1.96	0.46
16:1M:40:UNK:HA	16:1M:153:UNK:HA	1.97	0.46
16:1M:99:UNK:HA	17:Bg:406:MET:HE3	1.97	0.46
17:1e:98:GLY:HA2	18:1f:254:GLU:HG2	1.96	0.46
18:1h:269:LEU:HB3	18:1h:301:MET:HE2	1.97	0.46
18:1h:280:LYS:HG3	17:De:87:PRO:HG2	1.96	0.46
18:2f:137:VAL:HG21	18:2f:154:LEU:HD21	1.97	0.46
17:2g:417:ASP:O	17:2g:421:GLU:HG2	2.15	0.46
18:2h:132:LEU:HB3	18:2h:164:LYS:HE2	1.97	0.46
17:3c:337:ASN:HB3	17:3c:340:TYR:HD2	1.80	0.46
17:3e:252:LYS:HB2	17:3e:252:LYS:HE3	1.66	0.46
18:3f:174:SER:HB2	18:3f:177:VAL:O	2.15	0.46
18:3h:293:ASN:O	18:3h:297:GLU:HG2	2.15	0.46
18:4b:27:GLU:OE2	18:4b:320:ARG:NH2	2.43	0.46
18:4b:377:MET:HE3	18:4b:377:MET:HB3	1.88	0.46
17:4g:203:ASP:OD2	17:4g:302:ALA:N	2.33	0.46
17:4g:337:ASN:HB3	17:4g:340:TYR:HD2	1.79	0.46
18:5f:15:GLN:HB3	18:5f:228:ASN:ND2	2.30	0.46
17:6c:362:LYS:HG3	17:6c:363:MET:HG2	1.96	0.46
18:6d:259:LEU:HD13	18:6d:268:MET:HE2	1.97	0.46
18:6h:101:ASN:HD21	18:6h:180:ALA:HB1	1.80	0.46
18:6h:138:PHE:CD1	18:6h:169:PHE:HB2	2.50	0.46
18:6h:210:TYR:CD1	18:6h:222:PRO:HB2	2.49	0.46
17:7a:83:GLN:O	17:8a:281:TYR:OH	2.32	0.46
18:7h:21:TRP:HZ2	18:7h:65:CYS:HB2	1.81	0.46
18:8b:217:LEU:HD21	18:8b:368:LEU:HD23	1.98	0.46
17:8c:334:GLN:NE2	17:8c:346:PRO:O	2.47	0.46
17:8e:200:MET:CE	17:8e:266:PHE:HB2	2.44	0.46
17:8e:238:CYS:SG	17:8e:318:ARG:NH1	2.89	0.46
18:8f:70:LEU:HD21	18:8f:149:LEU:HD22	1.97	0.46
18:8f:342:GLN:NE2	18:8f:343:PHE:O	2.48	0.46
17:8g:247:ASN:C	17:8g:247:ASN:ND2	2.74	0.46
18:8h:88:HIS:HD2	18:8h:91:GLN:N	2.12	0.46
17:9a:253:LEU:HD11	17:9a:316:LEU:HD21	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9b:386:GLU:O	18:9b:390:ARG:HG3	2.15	0.46
17:9e:247:ASN:C	17:9e:247:ASN:ND2	2.73	0.46
18:9f:141:VAL:HG13	18:9f:190:SER:OG	2.16	0.46
17:9g:49:VAL:O	17:9g:62:ARG:NH1	2.49	0.46
18:9h:137:VAL:HG21	18:9h:154:LEU:HD21	1.97	0.46
18:Ab:174:SER:HB2	18:Ab:177:VAL:O	2.15	0.46
17:Ag:282:ARG:NH1	17:Ag:292:GLN:OE1	2.36	0.46
17:Bc:156:ARG:HH22	17:Bc:197:ASP:CG	2.24	0.46
18:Bd:4:VAL:HG11	18:Bd:136:LEU:HG	1.98	0.46
18:Bd:210:TYR:CD1	18:Bd:227:LEU:HD21	2.50	0.46
17:Be:233:MET:O	17:Be:236:ILE:HG22	2.15	0.46
18:Bf:141:VAL:HG11	18:Bf:172:TYR:CE2	2.51	0.46
17:Ca:207:LEU:HD13	17:Ca:225:LEU:HB3	1.98	0.46
17:Cc:290:THR:HG21	17:Cc:329:GLN:HB3	1.98	0.46
17:Cc:377:MET:HG3	17:Cc:380:ARG:NH2	2.29	0.46
17:Cg:315:ALA:HB3	17:Cg:330:MET:HE1	1.98	0.46
17:Da:137:HIS:HE1	17:Da:166:THR:HG23	1.79	0.46
18:Dd:252:ILE:O	18:Dd:256:GLN:NE2	2.48	0.46
2:0F:59:GLN:HE21	2:0F:73:LEU:HA	1.81	0.46
3:0I:421:HIS:ND1	3:0I:522:SER:HB2	2.30	0.46
3:0I:504:ALA:HA	3:0I:535:ALA:HB3	1.96	0.46
3:0J:154:TRP:CH2	17:Bc:389:PHE:O	2.67	0.46
7:0Q:126:LYS:HE2	7:0Q:128:TYR:HE2	1.80	0.46
7:0S:495:ARG:HH21	18:1b:33:ASP:CG	2.23	0.46
12:0X:104:GLY:HA2	12:0X:108:TYR:HE1	1.81	0.46
12:0Y:138:SER:OG	12:0Y:217:THR:OG1	2.22	0.46
12:0Z:20:SER:HB3	12:0Z:316:PRO:HG3	1.97	0.46
12:1A:215:VAL:HG13	12:1A:240:VAL:HG22	1.96	0.46
12:1A:224:THR:HB	12:1A:231:ARG:NH2	2.31	0.46
13:1B:1141:THR:C	13:1B:1281:LYS:HZ3	2.24	0.46
13:1C:1479:LEU:HD21	13:1C:1498:LEU:HD13	1.97	0.46
14:1D:955:PRO:CB	14:1D:986:LEU:H	2.28	0.46
14:1D:999:TYR:CB	14:1D:1008:GLU:HG2	2.39	0.46
14:1D:1005:ARG:HA	14:1D:1008:GLU:CG	2.45	0.46
14:1G:504:ASN:O	14:1G:508:LEU:HG	2.15	0.46
16:1M:84:UNK:HA	16:1M:143:UNK:HA	1.97	0.46
17:1g:163:MET:HE1	17:1g:251:ARG:HG3	1.97	0.46
18:1h:285:GLN:HG2	17:De:53:GLU:O	2.16	0.46
17:2a:252:LYS:HE3	17:2a:252:LYS:HB2	1.71	0.46
17:2c:173:PRO:HB3	17:2c:380:ARG:CZ	2.46	0.46
17:2c:200:MET:HE1	17:2c:368:ILE:HG21	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:2c:274:THR:HG22	17:2c:282:ARG:HD3	1.97	0.46
17:3e:173:PRO:HB3	17:3e:380:ARG:CZ	2.46	0.46
18:3f:9:ILE:HD11	18:3f:153:LEU:HD23	1.98	0.46
18:4b:269:LEU:O	18:4b:378:ILE:HA	2.16	0.46
17:4c:68:LEU:HB3	17:4c:96:GLY:HA2	1.96	0.46
18:4d:30:ILE:HA	18:4d:36:MET:HB3	1.97	0.46
18:4h:139:ASN:OD1	18:4h:170:THR:HG22	2.15	0.46
18:5b:188:VAL:HG13	18:5b:425:LEU:HD22	1.97	0.46
17:5c:52:ASN:OD1	17:5c:62:ARG:NH2	2.47	0.46
17:5c:66:MET:SD	17:5c:147:MET:HB3	2.55	0.46
17:5c:113:ILE:HG13	17:5c:117:LEU:HD23	1.96	0.46
18:6b:8:HIS:ND1	18:6b:65:CYS:SG	2.88	0.46
17:6c:10:GLY:O	17:6c:14:ASN:ND2	2.48	0.46
17:6c:139:LEU:HG	17:6c:168:SER:HB3	1.97	0.46
18:6d:223:THR:OG1	17:6e:245:GLN:OE1	2.33	0.46
17:6e:159:TYR:HB3	17:6e:162:ARG:HG3	1.97	0.46
18:6f:104:ALA:HB2	18:6f:413:MET:HG3	1.98	0.46
18:6f:271:SER:OG	18:6f:377:MET:HB3	2.16	0.46
18:7b:104:ALA:HB2	18:7b:413:MET:HG3	1.97	0.46
18:7b:169:PHE:HZ	18:7b:238:LEU:HD13	1.80	0.46
18:7d:260:VAL:HG22	18:7d:268:MET:HE1	1.97	0.46
18:7d:390:ARG:HA	18:7d:393:HIS:CD2	2.51	0.46
18:7f:268:MET:HE3	18:7f:378:ILE:HG12	1.97	0.46
17:7g:173:PRO:HB3	17:7g:380:ARG:CZ	2.45	0.46
18:7h:174:SER:HB2	18:7h:177:VAL:O	2.15	0.46
17:8c:381:VAL:HB	17:8c:415:MET:HE1	1.98	0.46
18:8d:36:MET:SD	18:8d:61:HIS:NE2	2.89	0.46
17:8e:208:TYR:CE1	17:8e:225:LEU:HD11	2.50	0.46
17:8g:258:ILE:HG12	17:8g:266:PHE:HZ	1.81	0.46
17:8g:273:LEU:N	17:8g:292:GLN:HE22	2.13	0.46
18:8h:172:TYR:HH	18:8h:191:THR:HG1	1.62	0.46
17:9a:233:MET:O	17:9a:236:ILE:HG22	2.15	0.46
17:9a:322:SER:CB	18:9h:221:ARG:HG3	2.45	0.46
18:9b:139:ASN:OD1	18:9b:170:THR:HG22	2.15	0.46
17:9c:202:LEU:HD13	17:9c:229:ILE:HG12	1.97	0.46
18:9d:398:MET:HE3	17:9e:346:PRO:HD2	1.97	0.46
17:9e:109:GLY:HA2	17:9e:147:MET:HE1	1.97	0.46
18:Ad:1:MET:HE3	18:Ad:2:ARG:NH1	2.29	0.46
17:Ba:143:THR:OG1	17:Ba:147:MET:HE1	2.15	0.46
17:Ba:274:THR:HG22	17:Ba:282:ARG:HD3	1.96	0.46
18:Bb:216:SER:HB3	18:Bb:275:ILE:O	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Bc:60:VAL:HG11	17:Bc:86:ARG:NH1	2.30	0.46
17:Bc:98:GLY:O	18:Bd:257:THR:OG1	2.20	0.46
18:Bf:8:HIS:ND1	18:Bf:65:CYS:SG	2.88	0.46
18:Cb:70:LEU:HD21	18:Cb:149:LEU:HD22	1.98	0.46
17:Cc:210:ILE:O	17:Cc:214:THR:OG1	2.27	0.46
17:Cg:130:LEU:O	17:Cg:162:ARG:NE	2.48	0.46
18:Ch:133:GLN:O	18:Ch:165:SER:OG	2.34	0.46
18:Df:21:TRP:CZ3	18:Df:52:PHE:HB3	2.50	0.46
18:Dh:201:ALA:O	18:Dh:267:PHE:HA	2.16	0.46
1:0D:74:VAL:HG13	1:0D:77:ASP:H	1.80	0.46
1:0D:153:ARG:HA	1:0D:156:ARG:HG2	1.96	0.46
4:0L:150:PHE:HA	4:0L:153:ILE:HG22	1.98	0.46
5:0N:274:VAL:HB	5:0N:278:GLY:H	1.81	0.46
6:0O:99:ALA:O	6:0O:103:HIS:ND1	2.39	0.46
7:0S:547:LYS:HB3	7:0S:566:ALA:HB3	1.98	0.46
12:0Z:182:ARG:HA	12:0Z:182:ARG:HD2	1.63	0.46
12:0Z:290:THR:HG23	12:0Z:293:THR:H	1.80	0.46
12:1A:301:GLY:N	12:1A:304:CYS:SG	2.89	0.46
13:1C:1136:ASN:ND2	13:1C:1478:GLY:HA3	2.31	0.46
14:1G:576:ARG:HH11	14:1G:585:VAL:HG12	1.79	0.46
14:1G:596:ARG:HA	14:1G:596:ARG:CZ	2.46	0.46
17:2a:145:SER:HB3	17:2a:188:SER:OG	2.14	0.46
18:2b:70:LEU:HA	18:2b:95:GLY:HA3	1.98	0.46
18:2h:1:MET:HE2	18:2h:1:MET:HB2	1.82	0.46
18:3b:70:LEU:HD12	18:3b:99:ALA:HB2	1.97	0.46
18:3f:104:ALA:HB2	18:3f:413:MET:SD	2.56	0.46
17:3g:161:ASP:OD1	17:3g:161:ASP:N	2.43	0.46
17:3g:406:MET:HE2	17:3g:406:MET:HA	1.98	0.46
17:4a:113:ILE:HG13	17:4a:117:LEU:HD23	1.98	0.46
17:4a:268:VAL:O	17:4a:300:MET:N	2.39	0.46
18:4b:209:ILE:HG12	18:4b:302:MET:HG2	1.98	0.46
17:4c:311:LEU:HD23	17:4c:342:VAL:HG21	1.97	0.46
18:4d:35:GLN:HA	18:4d:61:HIS:HD2	1.79	0.46
18:4f:250:VAL:HA	18:4f:254:GLU:OE2	2.16	0.46
18:4f:386:GLU:O	18:4f:390:ARG:HG3	2.15	0.46
17:5c:117:LEU:HB3	17:5c:121:ARG:HH12	1.80	0.46
17:5c:177:ASP:O	18:5d:352:LYS:HA	2.15	0.46
18:5d:174:SER:HB2	18:5d:177:VAL:O	2.16	0.46
18:5d:210:TYR:CD1	18:5d:222:PRO:HB2	2.51	0.46
18:5f:312:TYR:HA	18:5f:381:SER:HB2	1.98	0.46
18:5f:320:ARG:HB2	18:5f:374:ALA:HB3	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:5h:105:ARG:HG2	18:5h:110:ILE:HD12	1.96	0.46
18:6f:250:VAL:HG22	18:6f:352:LYS:HE3	1.98	0.46
18:6f:386:GLU:O	18:6f:390:ARG:HG3	2.15	0.46
17:6g:31:ASP:OD2	17:6g:33:THR:OG1	2.28	0.46
17:7a:54:ALA:HB3	17:7a:58:ARG:HB3	1.98	0.46
18:7f:386:GLU:O	18:7f:390:ARG:HG3	2.16	0.46
18:7h:4:VAL:HG22	18:7h:133:GLN:HB2	1.96	0.46
18:7h:88:HIS:CD2	18:8h:283:HIS:HB3	2.50	0.46
18:8b:88:HIS:CD2	18:9b:283:HIS:HB3	2.51	0.46
17:8c:318:ARG:HB3	17:8c:357:PRO:HA	1.96	0.46
18:8d:105:ARG:HG2	18:8d:110:ILE:HD12	1.97	0.46
17:9e:269:GLY:HA2	17:9e:300:MET:HE3	1.96	0.46
17:Aa:324:LYS:HG2	18:Ah:222:PRO:HD2	1.97	0.46
18:Ab:169:PHE:HZ	18:Ab:238:LEU:HD13	1.81	0.46
17:Ae:385:PHE:HZ	17:Ae:408:PHE:HB3	1.81	0.46
17:Ag:167:PHE:CD2	17:Ag:233:MET:HE3	2.50	0.46
17:Be:175:VAL:H	17:Be:205:GLU:CD	2.23	0.46
17:Bg:326:VAL:O	17:Bg:330:MET:HG2	2.14	0.46
18:Bh:386:GLU:O	18:Bh:390:ARG:HG3	2.16	0.46
17:Ce:36:TYR:OH	17:Ce:40:SER:O	2.30	0.46
17:Cg:60:VAL:HG11	17:Cg:86:ARG:NH1	2.30	0.46
17:De:49:VAL:O	17:De:62:ARG:NH1	2.49	0.46
17:De:218:THR:O	18:Df:326:LYS:NZ	2.27	0.46
16:1L:40:UNK:HA	16:1L:153:UNK:HA	1.97	0.46
16:1L:84:UNK:HA	16:1L:143:UNK:HA	1.97	0.46
1:0A:406:PHE:HB3	1:0A:437:TRP:CH2	2.50	0.46
1:0B:163:HIS:HB2	1:0C:163:HIS:HB2	1.98	0.46
1:0C:430:LEU:HD12	1:0C:454:SER:HB2	1.97	0.46
1:0C:582:GLN:HG2	1:0C:597:GLY:HA2	1.97	0.46
5:0M:372:MET:HB2	5:0M:392:MET:HE2	1.97	0.46
5:0M:637:SER:HB2	17:1a:284:LEU:HD11	1.97	0.46
7:0S:512:SER:OG	7:0S:513:ALA:N	2.47	0.46
13:1C:1343:PRO:HG2	13:1C:1391:VAL:HG12	1.97	0.46
14:1G:906:ALA:HA	14:1G:909:VAL:HG22	1.98	0.46
15:1H:25:UNK:O	17:3e:227:HIS:NE2	2.48	0.46
17:1g:247:ASN:C	17:1g:247:ASN:ND2	2.73	0.46
18:1h:88:HIS:HB3	18:1h:91:GLN:HB2	1.96	0.46
18:2b:386:GLU:O	18:2b:390:ARG:HG3	2.16	0.46
18:2f:217:LEU:HG	18:2f:275:ILE:HG22	1.98	0.46
17:3a:167:PHE:HA	17:3a:200:MET:HB2	1.97	0.46
17:3a:417:ASP:O	17:3a:421:GLU:HG2	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:3b:223:THR:OG1	17:3c:245:GLN:OE1	2.33	0.46
17:3c:184:ASN:OD1	17:3c:398:TYR:OH	2.27	0.46
18:3f:144:GLY:N	21:3f:501:GTP:O2G	2.49	0.46
17:3g:159:TYR:HB3	17:3g:162:ARG:HG3	1.98	0.46
17:3g:173:PRO:HB3	17:3g:380:ARG:CZ	2.46	0.46
17:3g:317:PHE:HB3	17:3g:321:MET:HE1	1.98	0.46
18:3h:79:ARG:HG3	18:3h:92:LEU:HD22	1.98	0.46
17:4c:397:TRP:CD1	18:4d:257:THR:HA	2.51	0.46
17:4e:215:LEU:HB3	17:4e:217:LEU:HD13	1.97	0.46
17:4e:247:ASN:C	17:4e:247:ASN:ND2	2.74	0.46
18:5b:5:ILE:HG13	18:5b:132:LEU:HD11	1.97	0.46
18:5h:101:ASN:HA	18:5h:144:GLY:H	1.80	0.46
18:6b:89:PRO:HD3	18:7b:283:HIS:CE1	2.51	0.46
17:6e:403:MET:HE3	17:6e:403:MET:HB2	1.87	0.46
18:6h:6:SER:O	18:6h:65:CYS:HA	2.16	0.46
17:7a:129:CYS:HB2	18:7h:96:LYS:HE3	1.98	0.46
17:7c:140:GLY:HA2	17:7c:184:ASN:HB2	1.97	0.46
17:7e:170:VAL:HG11	17:7e:377:MET:CE	2.45	0.46
17:7e:317:PHE:HB3	17:7e:321:MET:SD	2.55	0.46
18:7f:390:ARG:HA	18:7f:393:HIS:CD2	2.50	0.46
17:7g:54:ALA:HB3	17:7g:58:ARG:HB3	1.96	0.46
18:7h:262:TYR:HD2	18:7h:265:ILE:HD13	1.80	0.46
18:8b:174:SER:HB2	18:8b:177:VAL:O	2.15	0.46
17:8c:237:THR:HG22	17:8c:250:LEU:HD11	1.98	0.46
18:8f:316:CYS:SG	18:8f:318:MET:HE2	2.56	0.46
18:8h:293:ASN:O	18:8h:297:GLU:HG2	2.16	0.46
17:9a:255:VAL:HG11	18:9h:100:ALA:O	2.15	0.46
18:9d:90:GLU:OE1	18:9d:121:ARG:NH2	2.48	0.46
18:9d:174:SER:CB	18:9d:207:GLU:HB2	2.45	0.46
17:Aa:30:ILE:HD11	17:Aa:47:ILE:HD11	1.97	0.46
17:Ac:385:PHE:CE2	17:Ac:412:GLU:HB2	2.50	0.46
18:Ad:222:PRO:HD2	17:Ae:324:LYS:HG2	1.97	0.46
17:Ae:138:SER:O	17:Ae:145:SER:OG	2.33	0.46
18:Af:105:ARG:HG2	18:Af:110:ILE:HD12	1.98	0.46
17:Ag:385:PHE:CE2	17:Ag:412:GLU:HB2	2.50	0.46
18:Bd:319:TYR:HB3	18:Bd:323:VAL:HG21	1.97	0.46
17:Be:174:LYS:HB3	17:Be:205:GLU:OE2	2.16	0.46
18:Bh:141:VAL:HG21	18:Bh:172:TYR:HE1	1.81	0.46
17:Cc:337:ASN:HB3	17:Cc:340:TYR:HD2	1.79	0.46
18:Cd:70:LEU:HD21	18:Cd:149:LEU:HD22	1.98	0.46
18:Ch:88:HIS:CD2	18:Dh:283:HIS:HB3	2.51	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Da:326:VAL:O	17:Da:330:MET:HG2	2.16	0.46
1:0D:316:LEU:HD12	1:0D:605:TRP:HZ3	1.80	0.46
3:0J:297:THR:OG1	17:Be:431:GLU:HG2	2.15	0.46
5:0N:51:ARG:O	5:0N:51:ARG:HD2	2.16	0.46
5:0N:176:ALA:HB1	5:0N:713:GLN:NE2	2.31	0.46
5:0N:230:ARG:NH2	17:Bc:53:GLU:HB2	2.31	0.46
12:0X:151:LEU:HD21	12:0X:190:GLN:HB3	1.97	0.46
12:0Y:22:LEU:HB3	12:0Y:33:VAL:HG13	1.97	0.46
12:0Y:134:ARG:HB3	12:0Y:221:GLU:CG	2.46	0.46
12:1A:331:ARG:HD3	18:9d:402:ARG:HH21	1.80	0.46
13:1B:1112:GLU:HG3	13:1B:1194:PRO:HG3	1.96	0.46
13:1B:1317:GLU:OE1	13:1B:1750:TYR:OH	2.26	0.46
13:1C:1140:ARG:HD3	13:1C:1477:ARG:NH1	2.31	0.46
14:1E:926:GLY:HA2	14:1E:929:ARG:HD2	1.97	0.46
14:1G:910:PHE:HB3	14:1G:927:ALA:HB2	1.97	0.46
18:1b:28:HIS:CE1	18:1b:243:ARG:HD2	2.50	0.46
17:1g:100:ASN:HB3	17:1g:103:LYS:HB2	1.98	0.46
17:2a:167:PHE:CZ	17:2a:233:MET:HG2	2.51	0.46
17:2e:98:GLY:HA2	18:2f:254:GLU:HG2	1.96	0.46
18:2f:79:ARG:NH2	18:2f:92:LEU:O	2.48	0.46
17:2g:174:LYS:HB3	17:2g:205:GLU:OE2	2.16	0.46
18:2h:202:VAL:C	18:2h:203:MET:HE2	2.40	0.46
18:2h:255:PHE:O	18:2h:259:LEU:HB2	2.16	0.46
17:3g:113:ILE:HG13	17:3g:117:LEU:HD23	1.98	0.46
18:3h:216:SER:HB3	18:3h:275:ILE:O	2.16	0.46
17:4g:317:PHE:HB3	17:4g:321:MET:HE1	1.98	0.46
17:5e:373:ALA:O	17:5e:376:GLU:HG2	2.16	0.46
18:6d:205:ASP:HB2	18:6d:303:VAL:HA	1.98	0.46
17:7c:49:VAL:O	17:7c:62:ARG:NH1	2.49	0.46
17:8c:377:MET:HG2	17:8c:380:ARG:HH22	1.79	0.46
17:8e:31:ASP:OD2	17:8e:33:THR:OG1	2.26	0.46
17:8e:203:ASP:OD2	17:8e:302:ALA:N	2.35	0.46
17:8g:99:ASN:HD22	18:8h:258:ASN:ND2	2.14	0.46
17:8g:417:ASP:O	17:8g:421:GLU:HG2	2.15	0.46
17:9a:147:MET:HE2	17:9a:147:MET:HA	1.97	0.46
17:9a:215:LEU:HB3	17:9a:217:LEU:HD13	1.97	0.46
18:9b:188:VAL:HG13	18:9b:425:LEU:HD13	1.97	0.46
17:9c:177:ASP:OD1	20:9c:501:GDP:O2'	2.23	0.46
18:9d:210:TYR:CE1	18:9d:227:LEU:HD11	2.51	0.46
17:9g:378:PHE:CD1	17:9g:415:MET:HE3	2.42	0.46
18:Ab:325:PRO:HA	18:Ab:328:VAL:HG12	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ac:170:VAL:N	17:Ac:202:LEU:O	2.47	0.46
18:Ad:33:ASP:OD1	18:Ad:34:GLY:N	2.48	0.46
17:Ag:337:ASN:HB3	17:Ag:340:TYR:HD2	1.81	0.46
17:Ba:183:TYR:CE2	17:Ba:388:MET:HE3	2.50	0.46
18:Bb:324:VAL:HG13	18:Bb:327:ASP:H	1.81	0.46
17:Bc:167:PHE:CD2	17:Bc:233:MET:HE2	2.51	0.46
17:Bc:337:ASN:HB3	17:Bc:340:TYR:HD2	1.81	0.46
18:Bd:210:TYR:CE1	17:Be:324:LYS:HB2	2.50	0.46
17:Be:252:LYS:HB2	17:Be:252:LYS:HE3	1.75	0.46
18:Bf:138:PHE:CD1	18:Bf:169:PHE:HB2	2.51	0.46
17:Bg:67:ASP:CB	17:Bg:73:MET:HE2	2.46	0.46
17:Ce:267:MET:HE2	17:Ce:299:MET:HG3	1.98	0.46
17:Ce:417:ASP:O	17:Ce:421:GLU:HG2	2.16	0.46
18:Cf:88:HIS:HB3	18:Cf:91:GLN:HB2	1.97	0.46
17:Cg:252:LYS:HE3	17:Cg:252:LYS:HB2	1.67	0.46
18:Ch:298:PRO:HB3	18:Ch:307:PRO:HD2	1.98	0.46
18:Ch:311:LYS:H	18:Ch:382:THR:HG22	1.79	0.46
2:0E:152:ARG:HD2	2:0E:152:ARG:O	2.16	0.46
2:0F:47:ASP:OD1	2:0F:48:VAL:N	2.49	0.46
2:0G:88:MET:HA	2:0G:88:MET:HE2	1.96	0.46
3:0J:226:SER:HB3	3:0J:228:LEU:HD23	1.96	0.46
5:0M:156:LEU:HD23	17:Ce:43:GLN:HG2	1.97	0.46
5:0N:236:MET:CE	5:0N:249:PHE:HA	2.46	0.46
12:0Z:151:LEU:HD21	12:0Z:190:GLN:HB3	1.97	0.46
12:0Z:253:VAL:HG23	12:0Z:257:THR:HB	1.98	0.46
13:1C:1117:TYR:HA	13:1C:1123:LYS:HZ2	1.80	0.46
13:1C:1519:LYS:HB2	13:1C:1519:LYS:HE3	1.60	0.46
17:1g:6:HIS:HE1	17:1g:233:MET:HE1	1.81	0.46
17:1g:330:MET:HE3	17:1g:349:VAL:HG13	1.97	0.46
17:2a:213:ARG:HH21	17:2a:297:LYS:HD2	1.81	0.46
17:3a:377:MET:HG3	17:3a:380:ARG:HH22	1.81	0.46
17:3e:31:ASP:OD1	17:3e:35:THR:N	2.49	0.46
17:3e:377:MET:HE1	17:3e:378:PHE:CE1	2.51	0.46
17:3g:110:ALA:O	17:3g:113:ILE:HG22	2.16	0.46
17:5a:198:GLU:HG3	17:5a:266:PHE:CE2	2.51	0.46
18:5d:293:ASN:O	18:5d:297:GLU:HG2	2.16	0.46
17:6a:36:TYR:OH	17:6a:40:SER:N	2.47	0.46
17:6e:49:VAL:O	17:6e:62:ARG:NH1	2.48	0.46
17:6e:99:ASN:OD1	18:6f:258:ASN:ND2	2.42	0.46
18:7f:224:TYR:HD1	18:7f:227:LEU:HD12	1.80	0.46
18:8b:14:ILE:HD11	18:8b:69:ASP:HB2	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:8f:144:GLY:N	21:8f:501:GTP:O2G	2.48	0.46
17:9c:81:TYR:HD2	17:9c:84:ILE:HD13	1.81	0.46
18:9d:223:THR:HG1	18:9d:224:TYR:H	1.63	0.46
17:9e:337:ASN:HB3	17:9e:340:TYR:HD2	1.81	0.46
17:9g:8:GLN:O	17:9g:66:MET:HG2	2.15	0.46
18:9h:105:ARG:HG2	18:9h:110:ILE:HD12	1.98	0.46
17:Aa:373:ALA:O	17:Aa:376:GLU:HG2	2.15	0.46
18:Ad:311:LYS:H	18:Ad:382:THR:HG22	1.81	0.46
18:Bb:203:MET:HE3	18:Bb:267:PHE:HD1	1.80	0.46
18:Bf:210:TYR:CE1	17:Bg:324:LYS:HB2	2.51	0.46
17:Bg:211:CYS:HA	17:Bg:215:LEU:HB2	1.97	0.46
17:Cc:253:LEU:HD11	17:Cc:316:LEU:HD21	1.97	0.46
17:Cg:167:PHE:CE1	17:Cg:200:MET:HG3	2.50	0.46
18:Db:223:THR:OG1	17:Dc:245:GLN:OE1	2.34	0.46
17:De:202:LEU:HD13	17:De:229:ILE:HG12	1.97	0.46
18:Df:202:VAL:C	18:Df:203:MET:HE2	2.40	0.46
17:Dg:98:GLY:HA2	18:Dh:254:GLU:HG2	1.97	0.46
17:Dg:318:ARG:NE	17:Dg:356:ILE:O	2.44	0.46
1:0C:341:LEU:HB3	1:0C:355:MET:SD	2.56	0.46
2:0E:70:ASN:ND2	2:0E:93:ASN:OD1	2.48	0.46
3:0J:286:LEU:HD13	3:0J:293:LEU:HD21	1.97	0.46
4:0K:220:PRO:HA	17:Be:416:ASN:ND2	2.30	0.46
7:0Q:124:ASP:HB3	7:0Q:126:LYS:HZ2	1.81	0.46
9:0U:25:UNK:HA	17:5c:332:ASN:ND2	2.21	0.46
12:0X:8:VAL:HG11	12:0X:329:ALA:HB1	1.98	0.46
12:0X:114:ILE:HG21	12:0X:191:PHE:CE1	2.51	0.46
13:1B:1276:HIS:HA	13:1B:1282:ARG:HG2	1.96	0.46
13:1C:1164:ALA:O	13:1C:1168:MET:HG3	2.15	0.46
13:1C:1322:LEU:HB2	13:1C:1607:GLN:HG2	1.98	0.46
14:1G:862:THR:O	14:1G:866:ILE:HG12	2.16	0.46
17:1a:130:LEU:O	17:1a:162:ARG:NE	2.49	0.46
18:1d:312:TYR:HA	18:1d:381:SER:HB2	1.98	0.46
18:1f:76:ASP:OD2	17:1g:46:ARG:NH2	2.46	0.46
17:1g:7:ILE:HD13	17:1g:151:LEU:HD21	1.98	0.46
17:1g:70:PRO:HG2	18:1h:1:MET:HE3	1.98	0.46
17:2a:201:VAL:HG11	17:2a:377:MET:HE2	1.97	0.46
17:2g:21:TRP:CZ3	17:2g:61:PRO:HB3	2.51	0.46
17:5a:132:GLY:HA3	17:5a:163:MET:O	2.16	0.46
18:5b:26:LEU:HD21	18:5b:364:PRO:HD2	1.98	0.46
18:5d:386:GLU:O	18:5d:390:ARG:HG3	2.16	0.46
18:5f:8:HIS:ND1	18:5f:65:CYS:SG	2.87	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5g:167:PHE:CE1	17:5g:200:MET:HG3	2.51	0.46
17:5g:247:ASN:C	17:5g:247:ASN:ND2	2.74	0.46
17:6c:140:GLY:HA2	17:6c:184:ASN:HB2	1.98	0.46
18:6f:315:CYS:CB	18:6f:377:MET:HE1	2.46	0.46
17:6g:253:LEU:O	17:6g:257:LEU:HB2	2.16	0.46
17:7a:67:ASP:O	17:7a:92:PHE:HA	2.15	0.46
18:7b:21:TRP:CZ3	18:7b:52:PHE:HB3	2.51	0.46
18:7d:174:SER:HB2	18:7d:177:VAL:O	2.16	0.46
17:8a:252:LYS:HB2	17:8a:252:LYS:HE3	1.66	0.46
17:8a:403:MET:HE3	17:8a:403:MET:HB2	1.86	0.46
18:8b:293:ASN:O	18:8b:297:GLU:HG2	2.16	0.46
18:8d:227:LEU:O	18:8d:231:ILE:HG13	2.16	0.46
18:9b:217:LEU:HD21	18:9b:368:LEU:HD23	1.97	0.46
17:9c:98:GLY:HA2	18:9d:254:GLU:CD	2.40	0.46
18:9d:180:ALA:HB3	18:9d:183:GLU:HB2	1.97	0.46
18:9d:221:ARG:HG3	17:9e:322:SER:CB	2.46	0.46
17:9e:202:LEU:HD13	17:9e:229:ILE:HG12	1.97	0.46
17:9e:252:LYS:HB2	17:9e:252:LYS:HE3	1.70	0.46
17:9e:380:ARG:O	17:9e:383:GLU:HG2	2.16	0.46
17:Aa:238:CYS:SG	17:Aa:318:ARG:NH1	2.89	0.46
17:Aa:385:PHE:CE2	17:Aa:412:GLU:HB2	2.51	0.46
18:Ab:79:ARG:NH1	18:Ab:94:SER:OG	2.49	0.46
18:Ad:139:ASN:ND2	18:Ad:146:GLY:O	2.49	0.46
18:Ad:386:GLU:O	18:Ad:390:ARG:HG3	2.16	0.46
18:Ah:329:ASN:HA	18:Ah:332:VAL:HG12	1.98	0.46
18:Bb:316:CYS:HB3	18:Bb:378:ILE:HG23	1.98	0.46
18:Bh:2:ARG:HB3	18:Bh:242:LEU:HD12	1.98	0.46
18:Bh:65:CYS:SG	18:Bh:66:ILE:N	2.89	0.46
18:Ch:180:ALA:HB3	18:Ch:183:GLU:HB2	1.97	0.46
18:Db:70:LEU:HD21	18:Db:149:LEU:HD22	1.98	0.46
17:Dg:67:ASP:HB3	17:Dg:73:MET:HE2	1.97	0.46
18:Dh:210:TYR:CD1	18:Dh:227:LEU:HD21	2.51	0.46
1:0A:178:ARG:HG3	4:0L:127:LEU:HD22	1.98	0.46
1:0B:332:LEU:HB3	1:0B:341:LEU:HD11	1.98	0.46
1:0D:540:ASN:HD22	1:0D:582:GLN:HA	1.80	0.46
3:0I:458:ARG:HH21	3:0I:513:LEU:HD22	1.81	0.46
4:0K:169:ILE:HD13	18:Bf:433:GLU:HG3	1.98	0.46
4:0L:142:HIS:HA	17:Ba:409:THR:HG21	1.98	0.46
5:0N:121:LEU:HB3	5:0N:125:GLU:HB2	1.97	0.46
7:0Q:179:VAL:HG22	7:0Q:186:VAL:HG22	1.97	0.46
12:0X:101:MET:SD	12:0X:113:LEU:HD23	2.56	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:0X:290:THR:HG23	12:0X:293:THR:H	1.80	0.46
12:0Z:277:ALA:HB3	12:0Z:285:VAL:HG23	1.97	0.46
12:1A:86:THR:HG22	12:1A:238:ASN:HB2	1.98	0.46
13:1C:1154:GLN:HB2	13:1C:1282:ARG:HH12	1.81	0.46
14:1E:1032:ARG:HD2	14:1E:1038:ARG:HD2	1.97	0.46
18:1d:4:VAL:HG22	18:1d:133:GLN:HB2	1.97	0.46
18:1f:272:TYR:HB3	18:1f:275:ILE:HD11	1.97	0.46
18:2b:324:VAL:HG13	18:2b:327:ASP:H	1.81	0.46
18:2f:250:VAL:HG22	18:2f:352:LYS:HE3	1.98	0.46
17:3c:161:ASP:N	17:3c:161:ASP:OD1	2.43	0.46
18:3d:105:ARG:HG2	18:3d:110:ILE:HD12	1.97	0.46
17:3e:54:ALA:HB3	17:3e:58:ARG:HB3	1.97	0.46
17:3e:67:ASP:OD2	17:3e:72:THR:OG1	2.28	0.46
18:3f:269:LEU:HD22	18:3f:303:VAL:HB	1.98	0.46
17:4a:67:ASP:O	17:4a:92:PHE:HA	2.16	0.46
18:4b:210:TYR:CD1	18:4b:222:PRO:HB2	2.50	0.46
18:4h:132:LEU:HB3	18:4h:164:LYS:HE2	1.97	0.46
18:5b:79:ARG:HG3	18:5b:92:LEU:HD22	1.98	0.46
18:5b:132:LEU:HB3	18:5b:164:LYS:HE2	1.97	0.46
17:5c:173:PRO:HB3	17:5c:380:ARG:CZ	2.46	0.46
17:5g:103:LYS:HG3	17:5g:401:GLU:HG3	1.97	0.46
17:6a:294:TRP:CE2	17:6a:333:VAL:HG11	2.51	0.46
17:6c:21:TRP:CZ3	17:6c:50:TYR:HB3	2.51	0.46
17:6e:99:ASN:HA	17:6e:142:GLY:H	1.81	0.46
17:7a:109:GLY:O	17:7a:113:ILE:HB	2.16	0.46
18:7b:174:SER:HB2	18:7b:177:VAL:O	2.16	0.46
18:7d:138:PHE:CD1	18:7d:169:PHE:HB2	2.51	0.46
17:7g:208:TYR:CE1	17:7g:225:LEU:HD11	2.51	0.46
17:8e:377:MET:HG2	17:8e:380:ARG:HH22	1.81	0.46
17:9c:10:GLY:HA2	17:9c:143:THR:HG23	1.98	0.46
18:Ah:9:ILE:HD13	18:Ah:150:GLY:HA2	1.97	0.46
18:Ah:242:LEU:HD21	18:Ah:252:ILE:HG12	1.97	0.46
18:Ah:271:SER:HB3	18:Ah:301:MET:HG3	1.98	0.46
18:Bb:246:GLY:HA2	18:Bb:357:TYR:CE2	2.51	0.46
18:Bd:188:VAL:HG22	18:Bd:425:LEU:HD22	1.98	0.46
18:Bf:1:MET:HE3	18:Bf:2:ARG:HG3	1.97	0.46
18:Bh:144:GLY:N	21:Bh:501:GTP:O2G	2.49	0.46
17:Ce:379:LYS:O	17:Ce:383:GLU:HG2	2.16	0.46
18:Cf:216:SER:HB3	18:Cf:275:ILE:O	2.16	0.46
18:Cf:311:LYS:H	18:Cf:382:THR:HG22	1.80	0.46
18:Ch:306:ASP:HB3	18:Ch:309:HIS:ND1	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Db:203:MET:HB2	18:Db:303:VAL:HG21	1.98	0.46
17:De:247:ASN:C	17:De:247:ASN:ND2	2.74	0.46
17:Dg:54:ALA:HB3	17:Dg:58:ARG:HB3	1.97	0.46
17:Dg:247:ASN:C	17:Dg:247:ASN:ND2	2.73	0.46
1:0A:584:VAL:HG23	1:0A:593:LEU:HD21	1.96	0.45
1:0B:543:CYS:SG	1:0B:585:LEU:HD12	2.56	0.45
1:0C:426:ALA:HB3	1:0C:458:LEU:HD21	1.98	0.45
1:0C:448:LEU:HD22	1:0C:479:TRP:CE3	2.51	0.45
2:0H:47:ASP:OD1	2:0H:48:VAL:N	2.49	0.45
3:0I:215:TRP:CD1	3:0I:235:ARG:HD3	2.50	0.45
3:0I:250:PRO:HD2	16:1M:102:UNK:HA	1.97	0.45
3:0I:550:GLU:O	3:0I:553:ALA:N	2.49	0.45
3:0I:564:ALA:O	3:0I:568:VAL:HG23	2.16	0.45
3:0J:416:PRO:HB3	3:0J:448:ARG:HB2	1.97	0.45
4:0K:85:ALA:O	4:0K:88:GLN:HG3	2.16	0.45
5:0N:316:VAL:HB	5:0N:317:PRO:HD3	1.98	0.45
6:0O:135:ARG:HD3	17:Cg:15:GLN:HE21	1.82	0.45
7:0Q:349:GLY:O	7:0Q:366:GLN:NE2	2.50	0.45
7:0S:31:ILE:HG22	7:0S:300:LEU:HD21	1.98	0.45
12:0X:65:GLU:OE1	12:0X:65:GLU:N	2.38	0.45
12:0Y:9:PHE:CD2	12:0Y:57:GLY:HA3	2.51	0.45
12:1A:90:TYR:HB2	12:1A:242:LEU:HD12	1.98	0.45
13:1B:1581:ILE:HD11	13:1B:1596:CYS:HB3	1.98	0.45
13:1C:1164:ALA:O	13:1C:1167:ALA:N	2.49	0.45
14:1D:443:LEU:HB3	14:1D:444:PRO:HD3	1.98	0.45
14:1D:890:TRP:CZ3	14:1D:912:LEU:HB3	2.51	0.45
14:1E:429:ARG:HG3	14:1E:528:LEU:HD11	1.97	0.45
14:1E:490:LEU:HB3	14:1E:494:LYS:HE2	1.98	0.45
14:1F:910:PHE:HB3	14:1F:927:ALA:HB2	1.97	0.45
14:1G:650:ARG:CB	14:1G:666:LEU:HD13	2.46	0.45
18:1b:16:VAL:HA	18:1b:228:ASN:HB3	1.98	0.45
18:1b:70:LEU:HD21	18:1b:149:LEU:HD22	1.97	0.45
18:1h:202:VAL:C	18:1h:203:MET:HE2	2.41	0.45
17:2a:385:PHE:CE2	17:2a:412:GLU:HB2	2.52	0.45
18:2b:173:PRO:HG2	18:2b:391:LEU:HD11	1.98	0.45
17:2c:373:ALA:O	17:2c:376:GLU:HG2	2.16	0.45
18:2f:174:SER:HB2	18:2f:177:VAL:O	2.16	0.45
17:3g:378:PHE:CD1	17:3g:415:MET:HE3	2.42	0.45
17:4a:134:GLN:HA	17:4a:165:LEU:O	2.16	0.45
17:4c:207:LEU:HD21	17:4c:300:MET:HE3	1.97	0.45
17:4e:184:ASN:OD1	17:4e:398:TYR:OH	2.29	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4e:397:TRP:CZ2	18:4f:256:GLN:HB3	2.50	0.45
17:5a:167:PHE:CE1	17:5a:200:MET:HG3	2.51	0.45
18:6b:360:PRO:HG3	18:6b:374:ALA:HB2	1.96	0.45
17:6c:139:LEU:HD12	17:6c:170:VAL:HG22	1.98	0.45
17:6c:267:MET:HG3	17:6c:299:MET:CE	2.46	0.45
17:6e:67:ASP:OD2	17:6e:72:THR:OG1	2.29	0.45
17:6e:141:GLY:HA3	20:6e:501:GDP:O2A	2.16	0.45
18:6f:223:THR:O	18:6f:227:LEU:HG	2.16	0.45
18:6h:88:HIS:CD2	18:7h:283:HIS:HB3	2.51	0.45
17:7c:67:ASP:O	17:7c:92:PHE:HA	2.16	0.45
17:7c:213:ARG:HH21	17:7c:297:LYS:HD2	1.81	0.45
17:7e:6:HIS:HE1	17:7e:233:MET:HE1	1.80	0.45
17:7e:208:TYR:CE1	17:7e:225:LEU:HD11	2.51	0.45
18:7f:311:LYS:H	18:7f:382:THR:HG22	1.81	0.45
17:7g:177:ASP:O	18:7h:352:LYS:HA	2.15	0.45
17:8a:167:PHE:CE1	17:8a:200:MET:HG3	2.51	0.45
17:8c:7:ILE:HB	17:8c:135:VAL:HG22	1.98	0.45
18:8d:9:ILE:HD11	18:8d:153:LEU:HD23	1.97	0.45
17:8g:337:ASN:HB3	17:8g:340:TYR:HD2	1.81	0.45
17:9a:282:ARG:NH1	17:9a:292:GLN:OE1	2.37	0.45
18:Ad:306:ASP:HB3	18:Ad:309:HIS:ND1	2.31	0.45
18:Af:244:PHE:O	18:Af:356:ASN:ND2	2.46	0.45
18:Af:386:GLU:O	18:Af:390:ARG:HG3	2.16	0.45
18:Ah:205:ASP:OD2	18:Ah:303:VAL:HG13	2.16	0.45
18:Bb:5:ILE:HG13	18:Bb:132:LEU:HD11	1.97	0.45
18:Bd:79:ARG:HG3	18:Bd:92:LEU:HD22	1.98	0.45
17:Be:207:LEU:HD13	17:Be:225:LEU:HB3	1.99	0.45
18:Bf:174:SER:HB2	18:Bf:177:VAL:O	2.16	0.45
18:Cb:217:LEU:HD21	18:Cb:368:LEU:HD23	1.98	0.45
17:Cc:66:MET:HG2	17:Cc:147:MET:HE3	1.98	0.45
18:Cf:14:ILE:HD11	18:Cf:69:ASP:HB2	1.98	0.45
17:Cg:417:ASP:O	17:Cg:421:GLU:HG2	2.16	0.45
18:Ch:206:ASN:OD1	21:Ch:501:GTP:N2	2.49	0.45
17:Da:294:TRP:CE2	17:Da:333:VAL:HG11	2.50	0.45
17:De:417:ASP:O	17:De:421:GLU:HG2	2.16	0.45
18:Df:210:TYR:CD1	18:Df:227:LEU:HD21	2.52	0.45
18:Df:386:GLU:O	18:Df:390:ARG:HG3	2.16	0.45
18:Dh:234:VAL:HG21	18:Dh:302:MET:SD	2.56	0.45
1:0B:438:ASP:OD2	1:0B:445:ARG:NH2	2.49	0.45
1:0B:512:THR:HG22	1:0B:518:VAL:HG22	1.98	0.45
3:0I:246:ARG:HH11	3:0I:263:THR:HG21	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:0I:428:PHE:HE2	14:1G:972:GLU:HB3	1.81	0.45
4:0K:134:ARG:O	4:0K:138:LYS:HG2	2.17	0.45
4:0L:93:GLN:O	4:0L:96:GLN:HG3	2.17	0.45
5:0M:627:HIS:HA	17:1a:276:ARG:HH12	1.81	0.45
6:0O:36:GLN:NE2	6:0O:49:ASN:O	2.49	0.45
12:0Y:128:ARG:HG3	12:0Y:133:TYR:HE2	1.82	0.45
13:1C:1301:LEU:HD21	13:1C:1306:ARG:HE	1.81	0.45
18:1d:265:ILE:HG22	18:1d:380:ASN:HD21	1.82	0.45
17:1e:49:VAL:O	17:1e:62:ARG:NH1	2.48	0.45
18:1f:132:LEU:HB3	18:1f:164:LYS:HE2	1.99	0.45
17:2c:175:VAL:H	17:2c:205:GLU:CD	2.24	0.45
17:2e:388:MET:HE2	18:2f:348:PRO:HD2	1.97	0.45
18:2f:79:ARG:HG3	18:2f:92:LEU:HD22	1.98	0.45
17:3c:189:VAL:HG11	17:3c:378:PHE:CE1	2.51	0.45
17:3c:252:LYS:HE3	17:3c:252:LYS:HB2	1.72	0.45
17:3c:341:PHE:HB3	17:3c:348:ASN:ND2	2.32	0.45
17:3c:397:TRP:CZ2	18:3d:256:GLN:HB3	2.51	0.45
17:4a:377:MET:HG2	17:4a:380:ARG:HH22	1.80	0.45
18:4b:1:MET:HE3	18:4b:2:ARG:HH11	1.80	0.45
17:4c:274:THR:HG22	17:4c:282:ARG:HD3	1.98	0.45
18:4f:217:LEU:HD21	18:4f:368:LEU:HD23	1.97	0.45
18:4h:137:VAL:HG21	18:4h:154:LEU:HD21	1.98	0.45
18:4h:268:MET:HE1	18:4h:380:ASN:HB2	1.97	0.45
17:5a:167:PHE:HA	17:5a:200:MET:HB2	1.98	0.45
18:5h:4:VAL:HG22	18:5h:133:GLN:HB2	1.97	0.45
18:6h:4:VAL:HG22	18:6h:133:GLN:HB2	1.97	0.45
17:7a:117:LEU:HB3	17:7a:121:ARG:HH12	1.80	0.45
17:7a:260:PHE:HB2	17:7a:263:LEU:HD13	1.98	0.45
17:7a:266:PHE:CD1	17:7a:370:ASN:HB2	2.51	0.45
17:7a:271:THR:OG1	17:7a:293:MET:HE1	2.16	0.45
18:7b:313:MET:HE3	18:7b:346:TRP:HZ2	1.81	0.45
17:7c:178:THR:OG1	17:7c:181:GLU:HG3	2.16	0.45
18:7d:75:VAL:HG13	18:7d:92:LEU:HD23	1.97	0.45
17:7e:54:ALA:HB3	17:7e:58:ARG:HB3	1.98	0.45
17:7e:321:MET:HE2	17:7e:363:MET:HB3	1.98	0.45
17:8a:273:LEU:N	17:8a:292:GLN:HE22	2.13	0.45
18:8b:145:THR:N	21:8b:501:GTP:O2G	2.31	0.45
18:8d:169:PHE:HZ	18:8d:238:LEU:HD13	1.82	0.45
17:9c:27:GLU:OE2	17:9c:318:ARG:NH2	2.49	0.45
18:9d:318:MET:HA	18:9d:318:MET:HE3	1.96	0.45
17:9g:337:ASN:HB3	17:9g:340:TYR:HD2	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Aa:417:ASP:O	17:Aa:421:GLU:HG2	2.16	0.45
18:Ab:188:VAL:HG13	18:Ab:425:LEU:HD22	1.97	0.45
18:Ad:30:ILE:HA	18:Ad:36:MET:HB3	1.97	0.45
18:Af:269:LEU:HD22	18:Af:303:VAL:HB	1.98	0.45
17:Ag:60:VAL:HG21	17:Ag:86:ARG:HH22	1.81	0.45
17:Bc:110:ALA:O	17:Bc:113:ILE:HG22	2.16	0.45
18:Bd:227:LEU:O	18:Bd:231:ILE:HG13	2.16	0.45
18:Bf:50:ASN:O	18:Bf:50:ASN:ND2	2.49	0.45
17:Bg:67:ASP:HB2	17:Bg:73:MET:HE2	1.99	0.45
17:Bg:200:MET:SD	17:Bg:266:PHE:HB2	2.57	0.45
17:Cc:113:ILE:HG13	17:Cc:117:LEU:HD23	1.98	0.45
18:Cd:392:ASP:HB3	18:Cd:422:ARG:NH2	2.31	0.45
17:Ce:247:ASN:C	17:Ce:247:ASN:ND2	2.74	0.45
18:Cf:180:ALA:HB3	18:Cf:183:GLU:HB2	1.97	0.45
17:Cg:211:CYS:HA	17:Cg:215:LEU:HB2	1.99	0.45
18:Ch:102:ASN:HB3	18:Ch:105:ARG:HB2	1.98	0.45
17:Da:290:THR:HA	17:Da:293:MET:HE2	1.97	0.45
17:Da:318:ARG:HB3	17:Da:357:PRO:HA	1.98	0.45
18:Db:306:ASP:CG	18:Db:308:ARG:HE	2.22	0.45
2:0H:34:GLY:HA3	18:Dh:263:PRO:HG2	1.98	0.45
3:0I:265:LEU:HB3	3:0I:331:ARG:NH2	2.31	0.45
3:0I:434:HIS:HB2	14:1D:1006:ARG:HH22	1.81	0.45
3:0J:225:PHE:CZ	6:0P:166:LYS:HE3	2.51	0.45
3:0J:440:HIS:CD2	14:1F:508:LEU:HD22	2.52	0.45
5:0N:355:VAL:HG22	18:Db:279:GLU:HG2	1.99	0.45
7:0S:22:ILE:HD11	7:0S:41:LEU:HD11	1.98	0.45
7:0S:72:LEU:HD22	7:0S:107:VAL:HG11	1.98	0.45
12:0Z:270:PHE:CZ	17:9c:261:PRO:HG3	2.51	0.45
12:1A:7:LYS:HD2	12:1A:7:LYS:N	2.30	0.45
12:1A:134:ARG:HB3	12:1A:221:GLU:CG	2.47	0.45
12:1A:331:ARG:HD3	18:9d:402:ARG:NH2	2.30	0.45
13:1B:1201:TRP:CZ3	13:1B:1203:LEU:HG	2.52	0.45
13:1C:1615:CYS:SG	13:1C:1731:ILE:HB	2.56	0.45
14:1D:931:PHE:HD1	14:1D:936:GLU:HB2	1.80	0.45
14:1G:1032:ARG:NH1	14:1G:1045:GLU:OE2	2.50	0.45
18:1b:141:VAL:HG13	18:1b:190:SER:OG	2.16	0.45
18:1d:79:ARG:HG3	18:1d:92:LEU:HD22	1.98	0.45
18:1d:221:ARG:HB3	17:1e:322:SER:HB2	1.98	0.45
18:1f:30:ILE:HA	18:1f:36:MET:HB3	1.98	0.45
17:2a:11:GLN:HB3	17:2a:72:THR:HG21	1.98	0.45
18:2f:49:PHE:O	18:2f:53:PHE:N	2.39	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2f:201:ALA:O	18:2f:267:PHE:HA	2.16	0.45
18:3f:188:VAL:HG13	18:3f:425:LEU:HD22	1.98	0.45
18:4b:386:GLU:O	18:4b:390:ARG:HG3	2.16	0.45
17:4c:89:ASN:ND2	17:4c:123:GLU:OE2	2.46	0.45
18:4h:174:SER:HB2	18:4h:177:VAL:O	2.15	0.45
18:6b:138:PHE:CD1	18:6b:169:PHE:HB2	2.50	0.45
18:6f:6:SER:O	18:6f:65:CYS:HA	2.16	0.45
18:6f:175:PRO:HB3	18:6f:390:ARG:CZ	2.47	0.45
18:6f:205:ASP:HB2	18:6f:303:VAL:HA	1.98	0.45
18:6h:223:THR:O	18:6h:227:LEU:HG	2.17	0.45
17:7c:174:LYS:NZ	18:7d:333:ALA:HB1	2.31	0.45
17:7e:145:SER:HB3	17:7e:188:SER:OG	2.17	0.45
17:7e:173:PRO:HB3	17:7e:380:ARG:CZ	2.46	0.45
17:7g:140:GLY:HA2	17:7g:184:ASN:HB2	1.97	0.45
18:8h:192:HIS:ND1	18:8h:424:ASP:OD2	2.45	0.45
18:9b:133:GLN:HG3	18:9b:242:LEU:HD11	1.98	0.45
17:9c:178:THR:OG1	17:9c:181:GLU:HG3	2.17	0.45
18:9f:70:LEU:HD12	18:9f:145:THR:HG22	1.97	0.45
17:Ac:66:MET:SD	17:Ac:147:MET:HB3	2.56	0.45
17:Ag:164:MET:HG2	17:Ag:196:ALA:HA	1.99	0.45
18:Ah:210:TYR:CD1	18:Ah:222:PRO:HB2	2.51	0.45
18:Bb:174:SER:HB3	18:Bb:207:GLU:HB2	1.98	0.45
18:Bd:76:ASP:OD2	17:Be:46:ARG:NH2	2.50	0.45
17:Ce:318:ARG:HB3	17:Ce:357:PRO:HA	1.98	0.45
17:Da:290:THR:HG21	17:Da:329:GLN:HB3	1.96	0.45
17:Dc:200:MET:HG3	17:Dc:266:PHE:HB2	1.97	0.45
1:0A:414:TRP:HZ3	2:0H:46:ARG:HG3	1.81	0.45
1:0B:188:GLU:HA	1:0B:191:ILE:HD13	1.98	0.45
1:0D:206:MET:CG	18:Ch:396:ASP:HB2	2.36	0.45
1:0D:457:ASP:HB2	1:0D:499:GLY:HA2	1.97	0.45
2:0G:78:PHE:CD1	2:0G:110:PHE:HE2	2.34	0.45
3:0I:150:GLN:OE1	17:Bg:389:PHE:HE2	1.99	0.45
3:0J:250:PRO:HB2	3:0J:344:VAL:HG13	1.97	0.45
4:0L:96:GLN:NE2	4:0L:97:ARG:HG3	2.31	0.45
5:0M:659:PHE:O	17:1a:320:ARG:HD2	2.16	0.45
5:0N:303:ARG:HB2	17:Cc:39:ASP:C	2.41	0.45
7:0Q:521:VAL:HG12	7:0Q:527:ILE:HG12	1.98	0.45
13:1B:1130:LEU:HB2	13:1B:1132:LEU:HG	1.97	0.45
14:1E:1048:ALA:O	14:1E:1051:ARG:HG3	2.15	0.45
14:1F:914:ALA:HB1	14:1F:924:TRP:CE2	2.52	0.45
18:1b:386:GLU:O	18:1b:390:ARG:HG3	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1d:386:GLU:O	18:1d:390:ARG:HG3	2.16	0.45
18:2d:268:MET:HB3	18:2d:378:ILE:HG13	1.98	0.45
17:2e:7:ILE:HD13	17:2e:151:LEU:HD21	1.99	0.45
17:3a:200:MET:CE	17:3a:268:VAL:HG11	2.47	0.45
18:3d:141:VAL:HG13	18:3d:190:SER:OG	2.16	0.45
17:3e:202:LEU:HD13	17:3e:229:ILE:HG12	1.98	0.45
17:3e:330:MET:HE3	17:3e:349:VAL:CG1	2.46	0.45
18:3f:88:HIS:HB3	18:3f:91:GLN:HB2	1.97	0.45
18:3f:301:MET:HE1	18:3f:377:MET:HE1	1.97	0.45
18:3f:316:CYS:SG	18:3f:318:MET:HE3	2.57	0.45
17:4a:341:PHE:HB3	17:4a:348:ASN:ND2	2.31	0.45
17:4c:272:PRO:HD3	17:4c:364:SER:HA	1.97	0.45
17:4c:373:ALA:O	17:4c:376:GLU:HG2	2.17	0.45
18:4d:105:ARG:HG2	18:4d:110:ILE:HD12	1.98	0.45
17:4g:134:GLN:HA	17:4g:165:LEU:O	2.17	0.45
17:4g:173:PRO:HB3	17:4g:380:ARG:CZ	2.47	0.45
17:5a:113:ILE:HG13	17:5a:117:LEU:HD23	1.97	0.45
17:5a:252:LYS:HB2	17:5a:252:LYS:HE3	1.70	0.45
17:5a:317:PHE:CB	17:5a:321:MET:HE1	2.36	0.45
18:5b:274:PRO:HG2	18:5b:371:VAL:HG11	1.99	0.45
18:5f:431:ASP:O	18:5f:435:VAL:HG22	2.17	0.45
17:6c:163:MET:SD	17:6c:251:ARG:NH1	2.90	0.45
17:6e:207:LEU:HD13	17:6e:225:LEU:HB3	1.97	0.45
18:6f:222:PRO:HD2	17:6g:324:LYS:HG2	1.99	0.45
17:7a:173:PRO:HD2	17:7a:205:GLU:HG2	1.97	0.45
18:7b:133:GLN:O	18:7b:165:SER:OG	2.35	0.45
17:7c:198:GLU:HG3	17:7c:266:PHE:CE2	2.44	0.45
17:7g:266:PHE:CD1	17:7g:370:ASN:HB2	2.52	0.45
18:8f:167:LEU:HD21	18:8f:255:PHE:HD2	1.82	0.45
17:8g:21:TRP:CD1	17:8g:85:PHE:HE1	2.35	0.45
17:8g:330:MET:SD	17:8g:349:VAL:HG13	2.57	0.45
17:9a:178:THR:OG1	17:9a:181:GLU:HG3	2.16	0.45
17:9a:252:LYS:HB2	17:9a:252:LYS:HE3	1.69	0.45
18:9d:9:ILE:HG23	18:9d:68:LEU:HD22	1.98	0.45
18:9d:21:TRP:CE3	18:9d:24:TYR:HD2	2.35	0.45
18:9d:262:TYR:HB2	18:9d:265:ILE:HG22	1.97	0.45
18:9f:255:PHE:O	18:9f:259:LEU:HB2	2.16	0.45
17:9g:238:CYS:SG	17:9g:318:ARG:NH1	2.90	0.45
17:Aa:167:PHE:CD1	17:Aa:200:MET:HG3	2.51	0.45
17:Ag:55:THR:HG22	17:Bg:284:LEU:H	1.82	0.45
17:Ba:404:ASP:HB3	17:Ba:406:MET:HG2	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Bc:252:LYS:HB2	17:Bc:252:LYS:HE3	1.71	0.45
18:Bd:386:GLU:O	18:Bd:390:ARG:HG3	2.17	0.45
18:Bf:15:GLN:NE2	21:Bf:501:GTP:O6	2.49	0.45
18:Bf:211:ASP:OD1	18:Bf:214:ARG:NH1	2.45	0.45
18:Bf:252:ILE:HD13	18:Bf:255:PHE:CE2	2.51	0.45
17:Bg:253:LEU:HD11	17:Bg:316:LEU:HD21	1.98	0.45
17:Bg:423:GLN:NE2	17:Bg:427:ASP:OD2	2.49	0.45
18:Bh:210:TYR:CD1	18:Bh:227:LEU:HD21	2.51	0.45
17:Cg:207:LEU:O	17:Cg:210:ILE:HG22	2.16	0.45
18:Db:138:PHE:CD1	18:Db:169:PHE:HB2	2.52	0.45
18:Dd:205:ASP:OD2	18:Dd:303:VAL:HG13	2.16	0.45
17:Dg:252:LYS:HB2	17:Dg:252:LYS:HE3	1.75	0.45
1:0C:396:ASP:HB2	1:0C:403:VAL:HG23	1.99	0.45
2:0E:44:LEU:HB3	2:0E:45:HIS:H	1.52	0.45
3:0I:552:LEU:O	3:0I:556:GLU:HG3	2.17	0.45
3:0J:513:LEU:HA	3:0J:526:CYS:SG	2.56	0.45
7:0S:477:VAL:HG23	7:0S:487:SER:O	2.17	0.45
7:0S:480:ALA:HB3	7:0S:485:THR:O	2.15	0.45
13:1B:1144:THR:CG2	13:1B:1281:LYS:HG2	2.46	0.45
14:1D:1009:GLN:O	14:1D:1010:ARG:C	2.57	0.45
14:1F:595:ARG:HA	14:1F:768:ALA:HB2	1.99	0.45
17:1a:174:LYS:HB3	17:1a:205:GLU:OE2	2.16	0.45
17:1a:311:LEU:HD23	17:1a:342:VAL:HG21	1.99	0.45
17:1c:200:MET:SD	17:1c:266:PHE:HB2	2.56	0.45
18:1f:50:ASN:ND2	18:1f:50:ASN:O	2.47	0.45
18:1f:265:ILE:HG22	18:1f:380:ASN:HD21	1.81	0.45
17:1g:73:MET:HE1	17:1g:91:VAL:O	2.16	0.45
17:1g:140:GLY:HA2	17:1g:184:ASN:HB2	1.99	0.45
17:2a:36:TYR:OH	17:2a:40:SER:N	2.43	0.45
17:2a:305:PRO:HA	17:2a:373:ALA:HB2	1.98	0.45
17:2c:81:TYR:O	17:2c:84:ILE:HG12	2.16	0.45
17:3a:72:THR:O	17:3a:75:SER:OG	2.35	0.45
17:3a:382:SER:OG	17:3a:415:MET:HE3	2.16	0.45
18:3d:293:ASN:O	18:3d:297:GLU:HG2	2.16	0.45
18:3d:399:TYR:O	18:3d:402:ARG:NH1	2.43	0.45
18:3f:223:THR:OG1	17:3g:245:GLN:OE1	2.35	0.45
17:3g:233:MET:O	17:3g:236:ILE:HG22	2.16	0.45
18:4b:216:SER:HB3	18:4b:275:ILE:O	2.16	0.45
17:5a:49:VAL:C	17:5a:62:ARG:HH12	2.23	0.45
17:5e:49:VAL:C	17:5e:62:ARG:HH12	2.24	0.45
17:5e:174:LYS:NZ	18:5f:333:ALA:HB1	2.30	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:5f:5:ILE:HG13	18:5f:132:LEU:HD11	1.97	0.45
18:5f:324:VAL:HG13	18:5f:327:ASP:H	1.81	0.45
17:6a:86:ARG:HG2	17:6a:88:ASP:H	1.81	0.45
18:6b:88:HIS:CD2	18:7b:283:HIS:HB3	2.51	0.45
17:6c:87:PRO:HG2	17:7c:278:SER:HB3	1.99	0.45
18:6d:269:LEU:O	18:6d:378:ILE:HA	2.17	0.45
17:6e:237:THR:OG1	17:6e:241:ARG:NH1	2.49	0.45
17:6e:373:ALA:O	17:6e:376:GLU:HG2	2.17	0.45
17:6e:397:TRP:CH2	18:6f:256:GLN:HB3	2.52	0.45
17:7a:203:ASP:OD2	17:7a:302:ALA:N	2.36	0.45
18:7h:253:THR:OG1	18:7h:254:GLU:OE1	2.33	0.45
17:8a:145:SER:HB3	17:8a:188:SER:OG	2.17	0.45
18:8b:5:ILE:HG13	18:8b:132:LEU:HD11	1.98	0.45
18:8d:324:VAL:HG13	18:8d:327:ASP:H	1.81	0.45
17:8e:7:ILE:HD13	17:8e:151:LEU:HD21	1.98	0.45
18:8h:188:VAL:HG13	18:8h:425:LEU:HD22	1.98	0.45
18:9b:145:THR:N	21:9b:501:GTP:O2G	2.33	0.45
18:9f:293:ASN:O	18:9f:297:GLU:HG2	2.17	0.45
18:Ab:215:ARG:HG3	18:Ab:216:SER:N	2.31	0.45
17:Ac:177:ASP:O	18:Ad:352:LYS:HA	2.17	0.45
17:Ae:70:PRO:HG2	18:Af:1:MET:HE2	1.98	0.45
17:Ag:217:LEU:HD23	17:Ag:220:PRO:HB3	1.98	0.45
17:Ba:145:SER:HB3	17:Ba:188:SER:OG	2.16	0.45
17:Bc:12:CYS:SG	17:Bc:138:SER:HB3	2.57	0.45
17:Bc:392:LYS:HG2	17:Bc:395:LEU:HD23	1.97	0.45
18:Bf:222:PRO:HD2	17:Bg:324:LYS:HG2	1.97	0.45
18:Cd:104:ALA:HB2	18:Cd:413:MET:SD	2.56	0.45
18:Cd:141:VAL:HG13	18:Cd:190:SER:OG	2.16	0.45
18:Cf:28:HIS:CE1	18:Cf:243:ARG:HD2	2.51	0.45
18:Ch:393:HIS:HA	18:Ch:396:ASP:CG	2.42	0.45
18:Db:35:GLN:HA	18:Db:61:HIS:HD2	1.81	0.45
17:De:113:ILE:O	17:De:117:LEU:HD23	2.16	0.45
17:De:317:PHE:CB	17:De:321:MET:HE1	2.45	0.45
17:Dg:212:PHE:HB2	18:Dh:326:LYS:NZ	2.30	0.45
18:Dh:15:GLN:HA	18:Dh:18:ASN:HD22	1.81	0.45
1:0A:159:HIS:CG	1:0D:160:ARG:HG3	2.51	0.45
1:0D:160:ARG:NH2	13:1C:1156:ARG:O	2.50	0.45
1:0D:399:LYS:HZ2	1:0D:401:ARG:C	2.24	0.45
3:0I:422:VAL:HG11	3:0I:516:ARG:NH2	2.32	0.45
3:0J:538:ARG:NH1	14:1F:983:ARG:HB3	2.32	0.45
12:0Z:65:GLU:OE1	12:0Z:65:GLU:N	2.39	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1B:1528:TRP:CZ3	13:1B:1615:CYS:HB3	2.51	0.45
13:1B:1676:ARG:O	13:1B:1680:LEU:HG	2.17	0.45
13:1C:1144:THR:CG2	13:1C:1281:LYS:HG2	2.46	0.45
13:1C:1201:TRP:CZ3	13:1C:1203:LEU:HG	2.52	0.45
14:1D:815:ALA:O	14:1D:819:LEU:HG	2.16	0.45
17:1a:134:GLN:HA	17:1a:165:LEU:O	2.17	0.45
17:1c:143:THR:OG1	17:1c:147:MET:HE2	2.15	0.45
17:1c:274:THR:HG22	17:1c:282:ARG:HD3	1.99	0.45
18:1d:103:PHE:HD1	18:1d:413:MET:HE1	1.82	0.45
17:1e:64:ILE:HD13	17:1e:120:VAL:HG22	1.99	0.45
17:1e:330:MET:HE2	17:1e:330:MET:HA	1.99	0.45
18:1f:138:PHE:CD1	18:1f:169:PHE:HB2	2.51	0.45
17:2a:253:LEU:HD11	17:2a:316:LEU:HD21	1.98	0.45
18:2b:385:GLY:HA2	18:2b:388:PHE:HD2	1.82	0.45
18:2d:198:THR:HG21	18:2d:201:ALA:HB2	1.98	0.45
17:2e:122:LYS:HE2	17:3e:291:GLN:HE22	1.81	0.45
17:3a:272:PRO:HD3	17:3a:364:SER:HA	1.99	0.45
18:3d:88:HIS:HB3	18:3d:91:GLN:HB2	1.99	0.45
18:3h:210:TYR:CZ	18:3h:227:LEU:HD11	2.52	0.45
18:4b:259:LEU:HD13	18:4b:268:MET:HE2	1.98	0.45
18:4f:201:ALA:O	18:4f:267:PHE:HA	2.17	0.45
18:4f:242:LEU:HD21	18:4f:252:ILE:HG12	1.99	0.45
17:5e:66:MET:HE2	17:5e:147:MET:HB3	1.99	0.45
17:5e:233:MET:O	17:5e:236:ILE:HG22	2.16	0.45
17:5g:94:GLN:NE2	18:5h:1:MET:O	2.49	0.45
18:6d:311:LYS:H	18:6d:382:THR:HG22	1.81	0.45
17:6g:174:LYS:NZ	18:6h:333:ALA:HB1	2.32	0.45
17:6g:208:TYR:CE1	17:6g:225:LEU:HD11	2.52	0.45
17:6g:377:MET:HG2	17:6g:380:ARG:HH22	1.82	0.45
18:6h:128:ASN:HD21	18:7h:285:GLN:HG3	1.82	0.45
17:7e:174:LYS:NZ	18:7f:333:ALA:HB1	2.31	0.45
18:7h:217:LEU:HD21	18:7h:368:LEU:HD23	1.99	0.45
17:8c:81:TYR:HD2	17:8c:84:ILE:HD13	1.80	0.45
17:8g:159:TYR:HB3	17:8g:162:ARG:HG3	1.98	0.45
17:8g:208:TYR:CE1	17:8g:225:LEU:HD11	2.51	0.45
17:9a:67:ASP:OD2	17:9a:72:THR:OG1	2.25	0.45
18:9b:172:TYR:HH	18:9b:191:THR:HG1	1.63	0.45
17:9c:272:PRO:HD3	17:9c:364:SER:HA	1.99	0.45
17:9e:221:THR:HG22	18:9f:324:VAL:HG23	1.99	0.45
17:9g:98:GLY:HA2	18:9h:254:GLU:HG2	1.99	0.45
17:Ac:317:PHE:HB3	17:Ac:321:MET:SD	2.56	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ac:372:THR:HG21	17:Ac:426:GLN:HB2	1.99	0.45
18:Ad:252:ILE:O	18:Ad:255:PHE:HB2	2.17	0.45
17:Ag:253:LEU:HD11	17:Ag:316:LEU:HD21	1.99	0.45
18:Bb:76:ASP:OD2	17:Bc:46:ARG:NH2	2.48	0.45
17:Bg:198:GLU:HG3	17:Bg:266:PHE:CE2	2.45	0.45
17:Bg:293:MET:HG3	17:Bg:367:PHE:HB2	1.98	0.45
18:Cb:246:GLY:HA2	18:Cb:357:TYR:CD2	2.52	0.45
17:Cc:11:GLN:NE2	20:Cc:501:GDP:O3A	2.49	0.45
18:Cd:79:ARG:HG3	18:Cd:92:LEU:HD22	1.98	0.45
17:Ce:139:LEU:HD12	17:Ce:170:VAL:HG22	1.97	0.45
18:Ch:88:HIS:HB3	18:Ch:91:GLN:HB2	1.97	0.45
18:Db:105:ARG:HG2	18:Db:110:ILE:HD12	1.99	0.45
17:Dc:374:ILE:HG23	17:Dc:377:MET:HE2	1.98	0.45
17:De:397:TRP:CZ2	18:Df:256:GLN:HB3	2.51	0.45
17:Dg:215:LEU:HB3	17:Dg:217:LEU:HD13	1.98	0.45
1:0B:166:VAL:HG13	1:0C:170:LYS:HZ1	1.80	0.45
1:0B:586:PHE:CE2	1:0B:590:GLY:HA2	2.51	0.45
1:0C:156:ARG:HH22	13:1B:1156:ARG:HA	1.82	0.45
1:0D:525:MET:HE3	1:0D:525:MET:O	2.17	0.45
3:0J:207:TRP:O	3:0J:211:LEU:HG	2.17	0.45
5:0M:316:VAL:HB	5:0M:317:PRO:HD3	1.99	0.45
5:0N:347:GLY:HA2	18:Db:221:ARG:HB2	1.99	0.45
7:0S:64:ALA:HB3	7:0S:72:LEU:HB3	1.98	0.45
12:0X:78:SER:HB2	12:0X:83:TYR:HB2	1.99	0.45
12:0X:222:MET:O	12:0X:232:ALA:HA	2.16	0.45
12:0Z:109:ALA:C	12:0Z:110:HIS:ND1	2.75	0.45
14:1D:1048:ALA:O	14:1D:1051:ARG:HG3	2.16	0.45
18:1b:4:VAL:HG22	18:1b:133:GLN:HB2	1.99	0.45
17:1c:213:ARG:HH21	17:1c:297:LYS:HD2	1.81	0.45
18:1f:16:VAL:HA	18:1f:228:ASN:HB3	1.99	0.45
18:1h:16:VAL:HA	18:1h:228:ASN:HB3	1.99	0.45
18:1h:70:LEU:HD21	18:1h:149:LEU:HD22	1.97	0.45
17:2a:7:ILE:HD13	17:2a:151:LEU:HD21	1.98	0.45
18:2d:137:VAL:HG21	18:2d:154:LEU:HD21	1.98	0.45
18:2f:73:THR:HA	17:2g:46:ARG:HH21	1.81	0.45
17:2g:311:LEU:HD23	17:2g:342:VAL:HG21	1.99	0.45
18:2h:55:GLU:O	18:3h:285:GLN:NE2	2.38	0.45
18:3d:4:VAL:HG22	18:3d:133:GLN:HB2	1.99	0.45
18:3h:250:VAL:HA	18:3h:254:GLU:OE1	2.16	0.45
17:4a:64:ILE:HD11	17:4a:123:GLU:HG3	1.99	0.45
17:4a:167:PHE:CZ	17:4a:233:MET:HG2	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4a:317:PHE:HE1	17:4a:330:MET:HE3	1.82	0.45
17:4c:378:PHE:HB3	17:4c:415:MET:SD	2.57	0.45
17:4e:99:ASN:HA	17:4e:142:GLY:H	1.82	0.45
18:4f:105:ARG:HG2	18:4f:110:ILE:HD12	1.98	0.45
17:4g:290:THR:HG21	17:4g:329:GLN:HB3	1.98	0.45
18:4h:79:ARG:HG3	18:4h:92:LEU:HD22	1.99	0.45
18:5d:216:SER:HB3	18:5d:275:ILE:O	2.17	0.45
17:6a:167:PHE:CZ	17:6a:233:MET:HG2	2.51	0.45
18:6f:16:VAL:HA	18:6f:228:ASN:HB3	1.97	0.45
18:7b:8:HIS:ND1	18:7b:65:CYS:SG	2.88	0.45
17:7c:109:GLY:HA2	17:7c:147:MET:CE	2.47	0.45
17:7e:257:LEU:O	17:7e:259:PRO:HD3	2.17	0.45
18:7f:8:HIS:ND1	18:7f:65:CYS:SG	2.87	0.45
17:7g:271:THR:OG1	17:7g:293:MET:HE1	2.17	0.45
17:7g:273:LEU:H	17:7g:292:GLN:NE2	2.14	0.45
17:8c:130:LEU:O	17:8c:162:ARG:NE	2.50	0.45
18:8d:265:ILE:HG23	18:8d:432:PHE:HE1	1.81	0.45
17:8e:184:ASN:OD1	17:8e:398:TYR:OH	2.22	0.45
18:8h:21:TRP:CE3	18:8h:24:TYR:HD2	2.35	0.45
18:8h:30:ILE:HA	18:8h:36:MET:HB3	1.98	0.45
17:9a:107:THR:OG1	17:9a:108:GLU:N	2.50	0.45
17:9c:375:GLN:NE2	17:9c:423:GLN:OE1	2.45	0.45
18:9d:70:LEU:HA	18:9d:95:GLY:HA3	1.99	0.45
18:9d:169:PHE:HZ	18:9d:238:LEU:HD13	1.81	0.45
17:9e:289:LEU:HD22	17:9e:363:MET:HG2	1.99	0.45
18:9f:2:ARG:HB3	18:9f:242:LEU:HD12	1.99	0.45
18:9f:102:ASN:HB3	18:9f:105:ARG:HB2	1.98	0.45
18:9f:188:VAL:HG13	18:9f:425:LEU:HD13	1.98	0.45
17:9g:52:ASN:OD1	17:9g:62:ARG:NH2	2.50	0.45
17:9g:330:MET:HE2	17:9g:349:VAL:HG13	1.98	0.45
21:Ab:501:GTP:O1B	17:Ac:252:LYS:NZ	2.42	0.45
17:Ac:175:VAL:HB	17:Ac:205:GLU:OE2	2.16	0.45
17:Ac:178:THR:OG1	17:Ac:181:GLU:HG3	2.16	0.45
17:Ag:170:VAL:N	17:Ag:202:LEU:O	2.48	0.45
18:Ah:11:GLN:N	21:Ah:501:GTP:O1A	2.44	0.45
18:Ah:203:MET:HE2	18:Ah:203:MET:N	2.32	0.45
18:Ah:324:VAL:HG13	18:Ah:327:ASP:H	1.81	0.45
17:Ba:294:TRP:HZ2	17:Ba:330:MET:HE3	1.82	0.45
17:Ba:377:MET:HG3	17:Ba:380:ARG:NH2	2.31	0.45
18:Bb:144:GLY:N	21:Bb:501:GTP:O2G	2.50	0.45
18:Bd:3:GLU:HA	18:Bd:51:THR:HA	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Bf:52:PHE:O	18:Bf:64:ARG:HG2	2.16	0.45
17:Bg:21:TRP:CZ2	17:Bg:63:ALA:HB2	2.52	0.45
17:Ce:317:PHE:CD2	17:Ce:321:MET:HE1	2.52	0.45
17:Da:317:PHE:HB3	17:Da:321:MET:SD	2.57	0.45
17:Da:417:ASP:O	17:Da:421:GLU:HG2	2.16	0.45
18:Db:34:GLY:HA3	18:Db:60:LYS:HE2	1.99	0.45
18:Dd:115:VAL:O	18:Dd:119:LEU:HD23	2.16	0.45
18:Dd:386:GLU:O	18:Dd:390:ARG:HG3	2.17	0.45
17:De:238:CYS:SG	17:De:318:ARG:NH1	2.90	0.45
17:De:290:THR:HG21	17:De:329:GLN:HB3	1.98	0.45
18:Dh:35:GLN:HA	18:Dh:61:HIS:HD2	1.81	0.45
1:0C:346:ASP:CB	2:0E:152:ARG:HH12	2.30	0.45
1:0C:350:TRP:CE2	1:0C:364:GLY:HA3	2.51	0.45
1:0C:473:ASP:OD1	1:0C:475:THR:OG1	2.27	0.45
1:0D:331:ASN:HD22	1:0D:373:GLY:HA2	1.82	0.45
3:0I:104:MET:O	3:0I:108:MET:HG2	2.17	0.45
3:0I:564:ALA:HA	3:0I:567:ARG:NE	2.32	0.45
3:0J:361:PRO:O	3:0J:363:THR:HG23	2.17	0.45
4:0K:83:LEU:O	4:0K:87:ILE:HG23	2.16	0.45
5:0M:77:VAL:HG22	5:0M:121:LEU:HD11	1.98	0.45
12:0X:253:VAL:HG23	12:0X:257:THR:HB	1.99	0.45
13:1B:1499:VAL:O	13:1B:1735:LEU:HA	2.15	0.45
13:1C:1177:THR:HA	13:1C:1290:VAL:O	2.16	0.45
13:1C:1705:PHE:O	13:1C:1709:MET:HG2	2.16	0.45
14:1E:966:LEU:HD21	14:1E:999:TYR:HE1	1.79	0.45
14:1E:1009:GLN:HB3	14:1E:1013:GLN:HE22	1.82	0.45
14:1F:661:ASP:HB3	14:1F:756:THR:HG23	1.98	0.45
14:1G:905:PHE:O	14:1G:909:VAL:HG13	2.17	0.45
18:1b:210:TYR:CD1	18:1b:222:PRO:HB2	2.52	0.45
17:1g:109:GLY:O	17:1g:113:ILE:HB	2.17	0.45
17:2a:272:PRO:HD3	17:2a:364:SER:HA	1.99	0.45
17:2c:252:LYS:HB2	17:2c:252:LYS:HE3	1.67	0.45
18:2d:7:ILE:HG23	18:2d:66:ILE:HG23	1.99	0.45
18:2h:390:ARG:HA	18:2h:393:HIS:CD2	2.52	0.45
18:3d:210:TYR:CD1	18:3d:227:LEU:HD21	2.52	0.45
18:4b:311:LYS:H	18:4b:382:THR:HG22	1.80	0.45
17:4g:167:PHE:CZ	17:4g:233:MET:HG2	2.52	0.45
18:5d:132:LEU:HB3	18:5d:164:LYS:HE2	1.98	0.45
17:6c:67:ASP:O	17:6c:92:PHE:HA	2.16	0.45
17:6e:377:MET:HG3	17:6e:380:ARG:HH22	1.81	0.45
17:6g:8:GLN:HB3	17:6g:14:ASN:HA	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:6g:159:TYR:HB3	17:6g:162:ARG:HG3	1.98	0.45
17:6g:377:MET:HG2	17:6g:380:ARG:NH2	2.31	0.45
18:6h:21:TRP:CE3	18:6h:24:TYR:HD2	2.34	0.45
17:7e:67:ASP:OD2	17:7e:72:THR:OG1	2.23	0.45
18:8b:265:ILE:HG23	18:8b:432:PHE:HE1	1.82	0.45
17:8c:73:MET:HE1	17:8c:91:VAL:O	2.17	0.45
17:8c:247:ASN:C	17:8c:247:ASN:ND2	2.73	0.45
17:8e:273:LEU:H	17:8e:292:GLN:HE22	1.64	0.45
17:9a:207:LEU:HA	17:9a:210:ILE:HG22	1.99	0.45
17:9e:86:ARG:HH12	17:Ae:281:TYR:HB3	1.81	0.45
18:9f:241:SER:OG	18:9f:250:VAL:O	2.24	0.45
17:9g:233:MET:O	17:9g:236:ILE:HG22	2.17	0.45
17:Ba:267:MET:HG3	17:Ba:299:MET:HE2	1.99	0.45
17:Bc:229:ILE:O	17:Bc:233:MET:HG3	2.15	0.45
17:Bg:406:MET:O	17:Bg:409:THR:HG22	2.17	0.45
18:Cb:141:VAL:HG13	18:Cb:187:SER:HA	1.98	0.45
18:Cb:223:THR:OG1	17:Cc:245:GLN:OE1	2.33	0.45
18:Cb:311:LYS:H	18:Cb:382:THR:HG22	1.82	0.45
18:Cd:211:ASP:O	18:Cd:215:ARG:HG3	2.16	0.45
18:Db:210:TYR:CD1	18:Db:227:LEU:HD21	2.52	0.45
18:Dd:324:VAL:HG22	18:Dd:326:LYS:HG2	1.99	0.45
17:De:252:LYS:HB2	17:De:252:LYS:HE3	1.74	0.45
1:0A:411:GLN:HB3	1:0A:430:LEU:HD23	1.99	0.45
1:0B:141:ILE:HA	1:0B:144:ARG:HD2	1.98	0.45
1:0B:520:LEU:HD11	1:0B:551:LEU:HD22	1.99	0.45
1:0C:493:HIS:ND1	1:0C:513:ASP:OD2	2.50	0.45
1:0D:350:TRP:CE2	1:0D:364:GLY:HA3	2.51	0.45
1:0D:395:TRP:HA	1:0D:402:CYS:HA	1.97	0.45
3:0I:204:ASP:HA	3:0I:208:THR:HG23	1.99	0.45
4:0K:158:GLN:C	4:0K:160:ALA:H	2.23	0.45
4:0L:85:ALA:O	4:0L:88:GLN:HG3	2.17	0.45
7:0Q:464:ARG:HB3	7:0Q:482:GLU:OE1	2.17	0.45
12:0X:146:GLN:HB2	12:0X:148:TYR:CE2	2.52	0.45
12:0Y:42:GLY:N	18:9h:263:PRO:HG2	2.15	0.45
12:1A:35:VAL:HG11	12:1A:323:LEU:HD11	1.98	0.45
12:1A:92:GLN:NE2	12:1A:321:GLU:HG3	2.32	0.45
13:1C:1138:HIS:HB3	13:1C:1283:LEU:HD11	1.99	0.45
13:1C:1690:MET:SD	17:Ba:396:HIS:CE1	3.10	0.45
14:1G:400:ARG:HG3	14:1G:402:LEU:N	2.25	0.45
18:1b:70:LEU:HA	18:1b:95:GLY:HA3	1.98	0.45
17:1e:260:PHE:HB2	17:1e:263:LEU:HD13	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:2a:375:GLN:NE2	17:2a:423:GLN:OE1	2.39	0.45
18:2b:259:LEU:HD22	18:2b:268:MET:HE1	1.99	0.45
17:2c:66:MET:SD	17:2c:147:MET:HB3	2.57	0.45
18:2d:268:MET:HG3	18:2d:378:ILE:HD11	1.98	0.45
17:2e:341:PHE:HB3	17:2e:348:ASN:ND2	2.32	0.45
17:2g:381:VAL:HB	17:2g:415:MET:HE1	1.98	0.45
18:3d:174:SER:HB3	18:3d:207:GLU:HB2	1.98	0.45
18:3d:324:VAL:HG13	18:3d:327:ASP:H	1.82	0.45
18:3h:390:ARG:HA	18:3h:393:HIS:CD2	2.52	0.45
17:4a:8:GLN:HB3	17:4a:14:ASN:HA	1.99	0.45
18:4f:252:ILE:HD13	18:4f:255:PHE:CE2	2.51	0.45
18:4h:311:LYS:H	18:4h:382:THR:HG22	1.81	0.45
17:5c:233:MET:O	17:5c:236:ILE:HG22	2.15	0.45
17:5g:145:SER:HB3	17:5g:188:SER:OG	2.16	0.45
17:6a:316:LEU:HB2	17:6a:366:THR:HG22	1.99	0.45
17:6c:293:MET:HE3	17:6c:367:PHE:HB2	1.98	0.45
18:6d:398:MET:HE1	17:6e:345:ILE:HA	1.99	0.45
17:6e:60:VAL:HG21	17:6e:86:ARG:HH12	1.82	0.45
17:7a:239:CYS:HG	17:7a:352:SER:HG	1.65	0.45
18:7b:293:ASN:O	18:7b:297:GLU:HG2	2.15	0.45
17:7c:381:VAL:HB	17:7c:415:MET:HE1	1.99	0.45
18:7d:79:ARG:HG3	18:7d:92:LEU:HD22	1.98	0.45
18:7d:324:VAL:HG13	18:7d:327:ASP:H	1.82	0.45
18:7f:21:TRP:HZ2	18:7f:65:CYS:HB2	1.81	0.45
18:7f:54:SER:HB3	18:7f:64:ARG:NH2	2.32	0.45
17:8a:313:ALA:HB1	17:8a:367:PHE:CE1	2.52	0.45
17:8c:178:THR:OG1	17:8c:181:GLU:HG3	2.17	0.45
18:8d:321:GLY:HA3	18:8d:372:GLN:O	2.16	0.45
17:8e:178:THR:OG1	17:8e:181:GLU:HG3	2.17	0.45
17:8e:293:MET:HE3	17:8e:367:PHE:HD1	1.81	0.45
17:9a:372:THR:HA	17:9a:422:TYR:CD2	2.52	0.45
18:9b:313:MET:HE3	18:9b:382:THR:HB	1.99	0.45
17:9c:252:LYS:HB2	17:9c:252:LYS:HE3	1.67	0.45
18:9h:9:ILE:HD13	18:9h:150:GLY:HA2	1.99	0.45
17:Aa:167:PHE:CE1	17:Aa:200:MET:HG3	2.51	0.45
17:Aa:228:LEU:HB3	17:Aa:300:MET:HE2	1.99	0.45
18:Ab:205:ASP:HB2	18:Ab:303:VAL:HA	1.98	0.45
18:Af:265:ILE:HG21	18:Af:313:MET:HE1	1.98	0.45
17:Ba:21:TRP:CE2	17:Ba:63:ALA:HB2	2.52	0.45
18:Bf:52:PHE:CZ	18:Bf:239:THR:HG21	2.52	0.45
17:Ce:207:LEU:HA	17:Ce:210:ILE:HG22	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ce:267:MET:HG3	17:Ce:299:MET:HE2	1.98	0.45
18:Ch:250:VAL:HA	18:Ch:254:GLU:OE1	2.16	0.45
17:Da:149:THR:HG21	17:Da:188:SER:HA	1.99	0.45
17:De:178:THR:OG1	17:De:181:GLU:HG3	2.16	0.45
1:0A:205:LYS:HZ3	1:0D:205:LYS:HA	1.82	0.45
1:0B:135:LEU:HB3	1:0C:135:LEU:HB3	1.98	0.45
2:0E:81:TYR:CZ	2:0E:145:PHE:HB3	2.52	0.45
3:0I:93:THR:O	3:0I:97:THR:HG23	2.16	0.45
5:0M:697:ALA:HB3	17:De:276:ARG:NH1	2.32	0.45
13:1C:1607:GLN:OE1	13:1C:1609:PHE:HB3	2.16	0.45
14:1D:593:CYS:HB2	14:1D:604:ALA:HB2	1.98	0.45
14:1F:862:THR:O	14:1F:866:ILE:HG12	2.17	0.45
18:1b:21:TRP:CZ3	18:1b:52:PHE:HB3	2.52	0.45
18:1d:79:ARG:NH1	18:1d:94:SER:OG	2.50	0.45
18:1d:141:VAL:HG13	18:1d:190:SER:OG	2.17	0.45
17:1e:178:THR:OG1	17:1e:181:GLU:HG3	2.17	0.45
18:1f:360:PRO:HG3	18:1f:374:ALA:HB2	1.99	0.45
18:2d:326:LYS:HE2	18:2d:326:LYS:HB2	1.80	0.45
17:2e:253:LEU:HD11	17:2e:316:LEU:HD21	1.98	0.45
17:2g:247:ASN:C	17:2g:247:ASN:ND2	2.74	0.45
17:3g:207:LEU:HD11	17:3g:229:ILE:HD11	1.99	0.45
17:4a:229:ILE:HG22	17:4a:233:MET:HE2	1.98	0.45
17:4c:220:PRO:HD2	18:4d:326:LYS:CD	2.41	0.45
18:4d:234:VAL:CG2	18:4d:302:MET:HE1	2.39	0.45
17:4e:217:LEU:HD12	17:4e:276:ARG:NH1	2.31	0.45
18:4f:33:ASP:OD1	18:4f:34:GLY:N	2.49	0.45
17:4g:274:THR:HG22	17:4g:282:ARG:HD3	1.98	0.45
17:5a:139:LEU:HD12	17:5a:170:VAL:HG22	1.97	0.45
18:5h:65:CYS:SG	18:5h:66:ILE:N	2.90	0.45
17:7a:161:ASP:N	17:7a:161:ASP:OD1	2.46	0.45
18:7f:174:SER:HB2	18:7f:177:VAL:O	2.17	0.45
17:8c:203:ASP:OD2	17:8c:302:ALA:N	2.36	0.45
18:8d:182:VAL:HG22	17:8e:256:ASN:HD21	1.82	0.45
17:8e:86:ARG:HA	17:9e:281:TYR:CD2	2.52	0.45
18:8f:261:PRO:HG3	18:8f:313:MET:CE	2.47	0.45
17:8g:164:MET:HA	17:8g:164:MET:HE2	1.99	0.45
17:8g:178:THR:OG1	17:8g:181:GLU:HG3	2.17	0.45
17:9e:208:TYR:CE1	17:9e:225:LEU:HD11	2.52	0.45
17:9e:272:PRO:HD3	17:9e:364:SER:HA	1.98	0.45
18:Ad:326:LYS:HG3	18:Ad:327:ASP:N	2.31	0.45
17:Ba:102:ALA:HB1	17:Ba:401:GLU:HB2	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Bc:112:LEU:HD23	17:Bc:147:MET:HE1	1.99	0.45
17:Bc:290:THR:HA	17:Bc:293:MET:HE3	1.99	0.45
18:Bd:217:LEU:HD21	18:Bd:368:LEU:HD23	1.99	0.45
18:Bf:246:GLY:HA2	18:Bf:357:TYR:CE2	2.52	0.45
17:Bg:208:TYR:OH	18:Bh:325:PRO:HB2	2.16	0.45
17:Ca:417:ASP:O	17:Ca:421:GLU:HG2	2.16	0.45
17:Da:247:ASN:C	17:Da:247:ASN:ND2	2.73	0.45
18:Dd:144:GLY:N	21:Dd:501:GTP:O2G	2.50	0.45
17:De:273:LEU:H	17:De:292:GLN:HE22	1.64	0.45
17:De:373:ALA:O	17:De:376:GLU:HG2	2.17	0.45
1:0A:135:LEU:HB3	1:0D:135:LEU:HB3	1.99	0.44
1:0A:139:LYS:HZ2	1:0D:135:LEU:HD23	1.82	0.44
1:0A:342:VAL:HG11	1:0A:383:LEU:HD21	1.98	0.44
1:0B:209:SER:HA	1:0C:208:MET:CE	2.48	0.44
1:0B:394:ILE:O	1:0B:403:VAL:N	2.46	0.44
1:0D:330:ALA:N	1:0D:344:ALA:O	2.44	0.44
2:0E:119:PRO:HB2	2:0E:121:ASP:OD1	2.17	0.44
3:0J:503:ALA:HB2	14:1F:541:PRO:HA	1.98	0.44
5:0M:240:ARG:HD2	17:Bg:41:ASP:HB3	1.98	0.44
7:0Q:463:SER:OG	7:0Q:481:SER:O	2.32	0.44
10:0V:42:UNK:CB	18:3d:308:ARG:HD2	2.47	0.44
13:1B:1479:LEU:HD21	13:1B:1498:LEU:HD13	1.97	0.44
13:1C:1495:ASP:HB2	13:1C:1515:VAL:HG23	1.98	0.44
14:1D:1000:ARG:HH21	14:1D:1012:LEU:HD21	1.81	0.44
18:1b:88:HIS:HB3	18:1b:91:GLN:HB2	1.97	0.44
18:1h:320:ARG:HH21	18:1h:358:GLN:HG3	1.82	0.44
17:2e:139:LEU:HG	17:2e:168:SER:HB3	1.97	0.44
17:2e:247:ASN:C	17:2e:247:ASN:ND2	2.74	0.44
17:2g:27:GLU:OE2	17:2g:318:ARG:NH2	2.50	0.44
17:2g:32:PRO:HD3	17:2g:81:TYR:CZ	2.51	0.44
18:2h:203:MET:HE2	18:2h:203:MET:N	2.31	0.44
18:2h:241:SER:HA	18:2h:356:ASN:HD22	1.81	0.44
18:3f:251:ASP:N	18:3f:254:GLU:OE2	2.48	0.44
18:4d:144:GLY:N	21:4d:501:GTP:O2G	2.50	0.44
17:4e:397:TRP:O	17:4e:401:GLU:HG2	2.17	0.44
17:4g:8:GLN:HG2	17:4g:17:GLY:HA3	1.99	0.44
17:5a:222:PHE:HD2	20:5a:501:GDP:C6	2.35	0.44
17:5a:344:TRP:HZ3	18:5h:403:ALA:HB2	1.82	0.44
17:5c:174:LYS:NZ	18:5d:333:ALA:HB1	2.33	0.44
17:5c:417:ASP:O	17:5c:421:GLU:HG2	2.17	0.44
18:5f:316:CYS:SG	18:5f:318:MET:HE3	2.57	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:6a:382:SER:OG	17:6a:415:MET:SD	2.75	0.44
18:6f:105:ARG:HG2	18:6f:110:ILE:HD12	1.99	0.44
18:6f:174:SER:HB3	18:6f:207:GLU:HB2	1.98	0.44
18:6f:200:VAL:HG23	18:6f:256:GLN:HG3	1.98	0.44
17:7g:159:TYR:HB3	17:7g:162:ARG:HG3	2.00	0.44
18:7h:395:PHE:HD1	18:7h:422:ARG:HD3	1.82	0.44
18:8b:431:ASP:O	18:8b:435:VAL:HG22	2.17	0.44
18:8d:259:LEU:HD22	18:8d:268:MET:HE1	1.99	0.44
17:8e:375:GLN:HE22	17:8e:423:GLN:CD	2.21	0.44
18:8f:145:THR:OG1	21:8f:501:GTP:O2A	2.35	0.44
18:8f:276:ILE:HD12	18:8f:281:ALA:HA	1.99	0.44
17:8g:41:ASP:OD1	17:8g:42:LEU:N	2.50	0.44
17:9a:8:GLN:O	17:9a:66:MET:HG2	2.16	0.44
18:9b:21:TRP:CE3	18:9b:24:TYR:HD2	2.35	0.44
18:9b:403:ALA:HB2	17:9c:344:TRP:HZ3	1.82	0.44
18:9d:210:TYR:CG	17:9e:324:LYS:HD3	2.52	0.44
17:9g:130:LEU:O	17:9g:162:ARG:NE	2.49	0.44
18:9h:251:ASP:HB3	18:9h:254:GLU:HG3	1.99	0.44
18:Ad:211:ASP:O	18:Ad:215:ARG:HG2	2.17	0.44
18:Ah:272:TYR:HB3	18:Ah:275:ILE:HD11	1.97	0.44
17:Ba:322:SER:OG	18:Bh:222:PRO:O	2.31	0.44
17:Bc:178:THR:OG1	17:Bc:181:GLU:HG3	2.17	0.44
18:Bf:144:GLY:N	21:Bf:501:GTP:O2G	2.50	0.44
18:Bf:210:TYR:CD1	18:Bf:227:LEU:HD21	2.52	0.44
17:Bg:377:MET:HG3	17:Bg:380:ARG:HH22	1.81	0.44
17:Ca:67:ASP:HB3	17:Ca:73:MET:HE2	1.98	0.44
18:Cb:293:ASN:O	18:Cb:297:GLU:HG2	2.17	0.44
18:Cf:174:SER:HB2	18:Cf:177:VAL:O	2.18	0.44
18:Dd:21:TRP:CZ3	18:Dd:52:PHE:HB3	2.52	0.44
17:Dg:99:ASN:HA	17:Dg:142:GLY:H	1.82	0.44
18:Dh:70:LEU:HD21	18:Dh:149:LEU:HD22	1.97	0.44
1:0A:181:LYS:NZ	4:0L:127:LEU:HD12	2.32	0.44
1:0A:394:ILE:O	1:0A:403:VAL:N	2.45	0.44
1:0B:335:HIS:HE2	1:0B:380:GLY:HA3	1.82	0.44
1:0C:354:HIS:HB2	1:0C:361:ILE:HD11	1.98	0.44
3:0J:205:GLU:HB2	3:0J:217:ARG:HH21	1.83	0.44
3:0J:550:GLU:O	3:0J:554:GLU:HG3	2.17	0.44
5:0M:240:ARG:HH21	17:Bg:42:LEU:HD12	1.82	0.44
10:0V:93:UNK:N	18:3f:340:THR:HG21	2.33	0.44
12:0Y:211:ARG:HB3	12:0Y:260:GLU:OE1	2.16	0.44
13:1C:1226:GLU:CD	13:1C:1229:ARG:HD3	2.42	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1D:546:ASP:OD1	14:1D:547:LYS:N	2.50	0.44
14:1D:983:ARG:HG2	14:1G:497:LYS:NZ	2.31	0.44
14:1D:1032:ARG:HH11	14:1D:1038:ARG:HD2	1.83	0.44
14:1E:955:PRO:CB	14:1E:986:LEU:H	2.31	0.44
14:1F:544:VAL:HG22	14:1F:547:LYS:HZ3	1.81	0.44
14:1F:941:ASP:HB2	14:1F:964:VAL:HG11	1.99	0.44
14:1G:757:LEU:HD13	14:1G:779:HIS:HA	1.99	0.44
14:1G:941:ASP:HB2	14:1G:964:VAL:HG11	2.00	0.44
18:1d:272:TYR:HB3	18:1d:275:ILE:HD11	1.99	0.44
18:1f:174:SER:HB2	18:1f:177:VAL:O	2.18	0.44
17:1g:317:PHE:HB3	17:1g:321:MET:CE	2.41	0.44
18:1h:141:VAL:HG13	18:1h:190:SER:OG	2.17	0.44
17:2a:67:ASP:OD1	17:2a:68:LEU:N	2.51	0.44
18:2b:76:ASP:OD2	17:2c:46:ARG:NH2	2.49	0.44
17:2c:293:MET:HG3	17:2c:367:PHE:HB2	1.99	0.44
18:2d:217:LEU:HG	18:2d:275:ILE:HG22	1.99	0.44
18:2f:101:ASN:HA	18:2f:144:GLY:H	1.83	0.44
17:2g:67:ASP:HB3	17:2g:73:MET:HE2	1.99	0.44
17:2g:207:LEU:HD13	17:2g:225:LEU:HB3	2.00	0.44
18:2h:244:PHE:O	18:2h:356:ASN:ND2	2.46	0.44
18:3b:145:THR:N	21:3b:501:GTP:O2G	2.35	0.44
17:3e:203:ASP:OD2	17:3e:302:ALA:N	2.33	0.44
17:4a:213:ARG:HH21	17:4a:297:LYS:HD2	1.82	0.44
17:4g:373:ALA:O	17:4g:376:GLU:HG2	2.17	0.44
17:5a:170:VAL:N	17:5a:202:LEU:O	2.50	0.44
17:5c:268:VAL:HG12	17:5c:368:ILE:HG12	1.99	0.44
18:5d:28:HIS:CE1	18:5d:243:ARG:HD2	2.52	0.44
18:5f:26:LEU:HD12	18:5f:363:VAL:HG22	1.99	0.44
18:5h:7:ILE:HG23	18:5h:66:ILE:HG23	1.98	0.44
18:6f:210:TYR:CD1	18:6f:222:PRO:HB2	2.52	0.44
18:6f:324:VAL:HG13	18:6f:327:ASP:H	1.83	0.44
17:6g:201:VAL:HG11	17:6g:377:MET:HE2	1.99	0.44
18:7b:54:SER:HB3	18:7b:64:ARG:NH2	2.31	0.44
18:7d:205:ASP:OD2	18:7d:303:VAL:HG13	2.16	0.44
18:7f:101:ASN:HA	18:7f:144:GLY:N	2.31	0.44
17:7g:212:PHE:HB2	18:7h:326:LYS:NZ	2.32	0.44
18:9b:115:VAL:O	18:9b:119:LEU:HD23	2.17	0.44
17:9e:8:GLN:O	17:9e:66:MET:HG2	2.17	0.44
17:9e:99:ASN:OD1	18:9f:254:GLU:HG2	2.16	0.44
18:Ab:88:HIS:HB3	18:Ab:91:GLN:HB2	1.99	0.44
17:Ac:204:ASN:HA	17:Ac:207:LEU:HD12	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ac:219:THR:HA	18:Ad:326:LYS:HZ2	1.81	0.44
18:Ad:33:ASP:HA	18:Ad:85:GLN:HE21	1.82	0.44
17:Ae:208:TYR:HD1	18:Af:326:LYS:HE3	1.81	0.44
17:Ae:377:MET:HG2	17:Ae:380:ARG:HH22	1.81	0.44
18:Af:205:ASP:OD2	18:Af:303:VAL:HG13	2.17	0.44
17:Ag:69:GLU:HA	17:Ag:70:PRO:HD3	1.86	0.44
17:Ba:36:TYR:OH	17:Ba:40:SER:N	2.37	0.44
17:Ba:308:GLY:HA2	17:Ba:426:GLN:NE2	2.33	0.44
17:Bc:208:TYR:CE1	17:Bc:225:LEU:HD11	2.52	0.44
18:Cb:21:TRP:CZ3	18:Cb:52:PHE:HB3	2.53	0.44
17:Cc:382:SER:OG	17:Cc:415:MET:SD	2.74	0.44
17:Ce:381:VAL:HB	17:Ce:415:MET:HE1	1.99	0.44
18:Cf:331:SER:O	18:Cf:334:THR:OG1	2.30	0.44
18:Db:413:MET:HE3	18:Db:417:GLU:HB2	1.99	0.44
17:Dc:178:THR:OG1	17:Dc:181:GLU:HG3	2.16	0.44
17:De:138:SER:OG	20:De:501:GDP:O1A	2.34	0.44
18:Df:174:SER:HB2	18:Df:177:VAL:O	2.17	0.44
1:0B:319:ASN:HB2	1:0B:606:SER:H	1.82	0.44
1:0B:342:VAL:HG11	1:0B:383:LEU:HD21	2.00	0.44
1:0C:346:ASP:HB2	2:0E:152:ARG:NH1	2.32	0.44
1:0C:370:TRP:CZ3	1:0C:372:ALA:HB2	2.52	0.44
1:0D:156:ARG:HH22	13:1C:1156:ARG:HA	1.82	0.44
1:0D:172:LYS:HE2	1:0D:172:LYS:HB3	1.77	0.44
1:0D:426:ALA:HB3	1:0D:458:LEU:HD21	1.99	0.44
3:0J:161:LEU:HB3	18:Bd:434:GLU:OE2	2.18	0.44
5:0N:257:ARG:HD3	18:Cb:278:ALA:CB	2.47	0.44
6:0O:196:PRO:HB2	17:Bg:32:PRO:HG3	2.00	0.44
6:0P:172:ARG:HD3	17:Bc:78:SER:HB2	1.99	0.44
12:0X:338:ASP:O	12:0X:339:LEU:HD23	2.17	0.44
12:0Y:22:LEU:HD12	12:0Y:22:LEU:HA	1.76	0.44
12:0Y:85:GLY:O	12:0Y:237:LEU:HD12	2.17	0.44
12:0Y:134:ARG:HB3	12:0Y:221:GLU:HG2	2.00	0.44
13:1B:1272:PRO:HB2	13:1B:1284:ARG:NH1	2.27	0.44
13:1B:1698:ILE:HD12	13:1B:1701:LEU:HD12	1.98	0.44
13:1B:1738:ARG:NH1	13:1B:1752:PRO:HG3	2.32	0.44
13:1C:1609:PHE:O	13:1C:1736:ARG:HA	2.18	0.44
14:1D:966:LEU:HD21	14:1D:999:TYR:HE1	1.81	0.44
14:1G:796:ALA:O	14:1G:799:GLU:HG3	2.17	0.44
17:1c:293:MET:HG3	17:1c:367:PHE:HB2	2.00	0.44
17:1c:317:PHE:HB3	17:1c:321:MET:SD	2.57	0.44
18:1d:169:PHE:HZ	18:1d:238:LEU:HD13	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1d:234:VAL:HG21	18:1d:302:MET:SD	2.57	0.44
17:1e:38:GLY:HA3	17:1e:43:GLN:OE1	2.17	0.44
18:1f:217:LEU:HG	18:1f:275:ILE:HG22	1.99	0.44
18:1h:194:LEU:O	18:1h:198:THR:HG22	2.17	0.44
18:2b:216:SER:HB3	18:2b:275:ILE:O	2.17	0.44
18:2d:141:VAL:HG13	18:2d:190:SER:OG	2.18	0.44
17:2e:174:LYS:HB3	17:2e:205:GLU:OE2	2.17	0.44
18:2h:70:LEU:HD21	18:2h:149:LEU:HD22	1.99	0.44
17:3a:293:MET:HG3	17:3a:367:PHE:HB2	1.99	0.44
18:3b:101:ASN:HA	18:3b:144:GLY:H	1.82	0.44
18:3b:259:LEU:HB3	18:3b:268:MET:HE1	2.00	0.44
17:3c:174:LYS:N	17:3c:205:GLU:OE1	2.44	0.44
18:3d:198:THR:HG21	18:3d:201:ALA:HB2	1.98	0.44
18:3d:201:ALA:O	18:3d:267:PHE:HA	2.17	0.44
18:3h:214:ARG:HD2	18:3h:219:ILE:O	2.17	0.44
17:4a:149:THR:HG21	17:4a:188:SER:HA	1.98	0.44
17:4e:322:SER:HB3	17:4e:325:GLU:HB2	2.00	0.44
17:5e:178:THR:OG1	17:5e:181:GLU:HG3	2.18	0.44
18:5f:88:HIS:HB3	18:5f:91:GLN:HB2	1.98	0.44
18:5f:102:ASN:HB3	18:5f:105:ARG:HB2	1.99	0.44
18:5f:217:LEU:HG	18:5f:275:ILE:HG22	1.98	0.44
18:5f:237:SER:HB3	18:5f:272:TYR:HE1	1.82	0.44
18:5h:28:HIS:CE1	18:5h:243:ARG:HD2	2.51	0.44
18:5h:237:SER:HA	18:5h:320:ARG:HD2	1.99	0.44
18:6d:105:ARG:HG2	18:6d:110:ILE:HD12	1.99	0.44
18:6d:210:TYR:HD1	18:6d:222:PRO:HB2	1.83	0.44
17:6e:208:TYR:CE1	17:6e:225:LEU:HD11	2.52	0.44
17:7e:113:ILE:HG13	17:7e:117:LEU:HD23	1.99	0.44
18:7h:54:SER:HB3	18:7h:64:ARG:NH2	2.32	0.44
17:8c:257:LEU:O	17:8c:259:PRO:HD3	2.17	0.44
17:8g:167:PHE:CE1	17:8g:233:MET:HG2	2.52	0.44
18:8h:244:PHE:O	18:8h:356:ASN:ND2	2.50	0.44
17:9a:287:PRO:HB3	17:9a:329:GLN:NE2	2.33	0.44
17:9c:198:GLU:HG3	17:9c:266:PHE:CE2	2.45	0.44
18:9h:182:VAL:HG21	18:9h:408:TYR:CE1	2.52	0.44
17:Ac:113:ILE:HG13	17:Ac:117:LEU:HD23	2.00	0.44
18:Ad:9:ILE:HD13	18:Ad:150:GLY:HA2	2.00	0.44
18:Ad:79:ARG:NH1	18:Ad:94:SER:OG	2.50	0.44
17:Ae:134:GLN:HA	17:Ae:165:LEU:O	2.17	0.44
18:Af:174:SER:HB2	18:Af:177:VAL:O	2.18	0.44
18:Ah:105:ARG:HG2	18:Ah:110:ILE:HD12	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ah:227:LEU:O	18:Ah:231:ILE:HG13	2.17	0.44
18:Bd:265:ILE:HG21	18:Bd:313:MET:HE1	1.98	0.44
17:Bg:208:TYR:CE1	17:Bg:225:LEU:HD11	2.52	0.44
17:Cc:260:PHE:HB2	17:Cc:263:LEU:HD13	1.98	0.44
18:Cd:217:LEU:HD21	18:Cd:368:LEU:HD23	1.98	0.44
18:Cf:211:ASP:OD1	18:Cf:214:ARG:NH1	2.50	0.44
17:Cg:139:LEU:HG	17:Cg:168:SER:HB3	1.99	0.44
17:Dc:341:PHE:HB3	17:Dc:348:ASN:ND2	2.32	0.44
17:Dg:91:VAL:HG12	17:Dg:112:LEU:HG	1.99	0.44
18:Dh:264:ARG:HG3	18:Dh:264:ARG:HH11	1.83	0.44
1:0C:74:VAL:HG13	1:0C:77:ASP:H	1.82	0.44
1:0D:319:ASN:HB2	1:0D:604:LEU:HB3	1.99	0.44
3:0I:455:TRP:CH2	3:0I:495:VAL:HG21	2.52	0.44
3:0J:165:VAL:HG21	18:Bd:434:GLU:HB2	1.99	0.44
6:0O:28:ASP:O	6:0O:32:LYS:HG2	2.16	0.44
7:0Q:112:ASP:OD2	7:0Q:164:TYR:OH	2.28	0.44
12:0Y:97:LYS:NZ	12:0Y:242:LEU:O	2.50	0.44
12:0Z:97:LYS:HZ3	12:0Z:244:GLY:HA2	1.83	0.44
13:1B:1615:CYS:SG	13:1B:1731:ILE:HB	2.57	0.44
13:1C:1533:LEU:HD12	13:1C:1575:LEU:HD22	1.99	0.44
14:1E:593:CYS:HB2	14:1E:604:ALA:HB2	1.98	0.44
14:1E:1032:ARG:HD3	14:1E:1032:ARG:HA	1.79	0.44
17:1a:184:ASN:OD1	17:1a:398:TYR:OH	2.31	0.44
18:1b:293:ASN:O	18:1b:297:GLU:HG2	2.18	0.44
18:1b:306:ASP:OD2	18:1b:308:ARG:NH2	2.50	0.44
17:1e:274:THR:HG22	17:1e:282:ARG:HD3	2.00	0.44
17:1e:293:MET:HE1	17:1e:317:PHE:CZ	2.52	0.44
18:1f:115:VAL:O	18:1f:119:LEU:HD23	2.18	0.44
18:1f:244:PHE:O	18:1f:356:ASN:ND2	2.47	0.44
18:2f:138:PHE:CD1	18:2f:169:PHE:HB2	2.52	0.44
17:2g:391:ARG:HH22	18:2h:438:GLU:HA	1.83	0.44
18:3d:311:LYS:H	18:3d:382:THR:CG2	2.30	0.44
18:3f:210:TYR:CD1	18:3f:227:LEU:HD21	2.53	0.44
17:3g:299:MET:HE1	17:3g:367:PHE:CD2	2.53	0.44
17:4c:66:MET:HA	17:4c:91:VAL:O	2.18	0.44
17:4c:178:THR:OG1	17:4c:181:GLU:HG3	2.17	0.44
18:4f:293:ASN:O	18:4f:297:GLU:HG2	2.17	0.44
18:5b:27:GLU:OE2	18:5b:320:ARG:NH2	2.32	0.44
17:5c:94:GLN:OE1	18:5d:1:MET:HE3	2.17	0.44
18:5d:79:ARG:HG3	18:5d:92:LEU:HD22	2.00	0.44
18:5d:210:TYR:CD1	18:5d:227:LEU:HD21	2.52	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5e:130:LEU:O	17:5e:162:ARG:NE	2.50	0.44
17:5g:178:THR:OG1	17:5g:181:GLU:HG3	2.18	0.44
18:6b:227:LEU:O	18:6b:231:ILE:HG13	2.18	0.44
17:6c:233:MET:O	17:6c:236:ILE:HG22	2.17	0.44
17:6c:257:LEU:O	17:6c:259:PRO:HD3	2.17	0.44
17:6g:21:TRP:CZ3	17:6g:61:PRO:HB3	2.52	0.44
17:6g:344:TRP:HZ2	17:6g:425:TYR:HB3	1.82	0.44
18:6h:398:MET:N	18:6h:398:MET:SD	2.91	0.44
17:7c:101:TRP:HE3	17:7c:403:MET:HE1	1.83	0.44
17:7c:317:PHE:HB3	17:7c:321:MET:CE	2.45	0.44
17:7e:252:LYS:HB2	17:7e:252:LYS:HE3	1.70	0.44
18:7h:293:ASN:O	18:7h:297:GLU:HG2	2.16	0.44
17:8c:110:ALA:O	17:8c:113:ILE:HG22	2.17	0.44
17:8e:21:TRP:CZ3	17:8e:61:PRO:HB3	2.52	0.44
17:8e:174:LYS:HD3	17:8e:174:LYS:HA	1.79	0.44
17:8e:200:MET:HA	17:8e:200:MET:HE3	2.00	0.44
17:8e:247:ASN:C	17:8e:247:ASN:ND2	2.73	0.44
17:9c:165:LEU:HD11	17:9c:200:MET:HE2	1.99	0.44
17:9e:373:ALA:O	17:9e:376:GLU:HG3	2.17	0.44
18:9h:102:ASN:HB3	18:9h:105:ARG:HB2	1.99	0.44
18:9h:158:SER:HA	18:9h:166:LYS:NZ	2.32	0.44
18:9h:430:LYS:HE2	18:9h:430:LYS:HB2	1.79	0.44
18:Ab:137:VAL:HG21	18:Ab:154:LEU:HD21	1.99	0.44
18:Af:216:SER:HB3	18:Af:275:ILE:O	2.18	0.44
17:Ag:161:ASP:OD1	17:Ag:161:ASP:N	2.44	0.44
17:Ag:252:LYS:HB2	17:Ag:252:LYS:HE3	1.73	0.44
18:Ah:413:MET:HG3	18:Ah:417:GLU:HG3	1.99	0.44
17:Ba:49:VAL:O	17:Ba:62:ARG:NH1	2.51	0.44
18:Bb:96:LYS:HE3	17:Bc:129:CYS:HB2	1.99	0.44
18:Bd:27:GLU:HG2	18:Bd:244:PHE:HZ	1.83	0.44
18:Bf:7:ILE:HG23	18:Bf:66:ILE:HG23	1.99	0.44
18:Bh:185:TYR:CE1	18:Bh:398:MET:HB2	2.52	0.44
18:Bh:203:MET:C	18:Bh:204:LEU:HD12	2.43	0.44
17:Ca:12:CYS:HB2	20:Ca:501:GDP:C8	2.52	0.44
17:Ca:286:VAL:HG22	17:Ca:321:MET:HE3	1.99	0.44
17:Cc:159:TYR:HB3	17:Cc:162:ARG:HG3	1.99	0.44
17:Cg:290:THR:HA	17:Cg:293:MET:HG2	1.99	0.44
18:Ch:210:TYR:CD1	18:Ch:227:LEU:HD21	2.52	0.44
17:Da:165:LEU:HD21	17:Da:236:ILE:HD13	2.00	0.44
17:Dc:374:ILE:HG22	17:Dc:378:PHE:CE2	2.52	0.44
18:Dd:179:THR:HG21	17:De:246:LEU:HD21	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Dd:210:TYR:CE1	18:Dd:227:LEU:HD11	2.52	0.44
18:Dd:216:SER:HB3	18:Dd:275:ILE:O	2.17	0.44
17:De:66:MET:HE1	17:De:148:GLY:HA2	1.99	0.44
18:Dh:28:HIS:CE1	18:Dh:243:ARG:HD2	2.53	0.44
1:0A:121:ASN:HD21	1:0D:117:VAL:HG23	1.82	0.44
1:0A:198:TYR:O	1:0A:201:LEU:HG	2.16	0.44
1:0B:438:ASP:HB3	1:0B:441:ALA:HB3	1.99	0.44
1:0D:370:TRP:CZ3	1:0D:372:ALA:HB2	2.52	0.44
2:0E:34:GLY:O	18:Df:263:PRO:HG2	2.17	0.44
3:0I:512:GLU:HG2	3:0I:528:THR:HB	1.99	0.44
4:0L:133:VAL:O	4:0L:137:LYS:HG2	2.17	0.44
5:0M:163:VAL:O	5:0M:169:THR:OG1	2.20	0.44
7:0Q:200:TYR:HE1	7:0Q:222:VAL:HG21	1.83	0.44
7:0S:62:ALA:HB1	7:0S:107:VAL:HG12	2.00	0.44
12:0Z:42:GLY:H	18:9b:263:PRO:HG2	1.81	0.44
12:1A:79:LEU:HD22	12:1A:237:LEU:HB2	2.00	0.44
13:1B:1533:LEU:HD12	13:1B:1575:LEU:HD22	2.00	0.44
13:1C:1273:VAL:HG12	13:1C:1274:PHE:N	2.33	0.44
14:1D:778:ARG:O	14:1D:781:PRO:HD2	2.18	0.44
14:1E:427:LYS:O	14:1E:431:ILE:HG12	2.16	0.44
14:1G:544:VAL:HG22	14:1G:547:LYS:NZ	2.32	0.44
14:1G:566:THR:O	14:1G:592:TYR:OH	2.36	0.44
14:1G:1004:GLN:O	14:1G:1008:GLU:HG3	2.18	0.44
18:1b:390:ARG:HA	18:1b:393:HIS:CD2	2.53	0.44
17:1g:274:THR:HG22	17:1g:282:ARG:HD3	2.00	0.44
17:2a:100:ASN:HB3	17:2a:103:LYS:HB2	1.99	0.44
17:3a:130:LEU:O	17:3a:162:ARG:NE	2.50	0.44
18:3d:319:TYR:CZ	18:3d:328:VAL:HG23	2.53	0.44
17:3e:67:ASP:O	17:3e:92:PHE:HA	2.18	0.44
18:3h:52:PHE:O	18:3h:64:ARG:HG2	2.17	0.44
18:3h:205:ASP:OD2	18:3h:303:VAL:HG13	2.18	0.44
17:4e:233:MET:O	17:4e:236:ILE:HG22	2.17	0.44
17:4g:67:ASP:OD2	17:4g:72:THR:OG1	2.29	0.44
17:4g:87:PRO:HA	17:4g:90:PHE:CD1	2.53	0.44
17:5a:5:VAL:HG23	17:5a:130:LEU:HD11	1.99	0.44
17:5a:213:ARG:NH2	17:5a:297:LYS:HD2	2.30	0.44
18:5b:138:PHE:CE2	18:5b:235:ILE:HD13	2.53	0.44
17:5c:293:MET:HG2	17:5c:367:PHE:HB2	1.99	0.44
17:5e:12:CYS:HB2	20:5e:501:GDP:C8	2.53	0.44
17:5g:139:LEU:HG	17:5g:168:SER:HB3	1.99	0.44
17:6a:252:LYS:NZ	21:6h:501:GTP:O1B	2.39	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:6a:257:LEU:O	17:6a:259:PRO:HD3	2.18	0.44
18:6b:398:MET:SD	17:6c:346:PRO:HD3	2.57	0.44
18:6d:198:THR:HG21	18:6d:201:ALA:HB2	1.99	0.44
18:6d:252:ILE:HD13	18:6d:255:PHE:CE2	2.53	0.44
18:6d:392:ASP:HB3	18:6d:422:ARG:NH2	2.32	0.44
18:6f:223:THR:OG1	17:6g:245:GLN:OE1	2.34	0.44
17:7a:290:THR:HG21	17:7a:329:GLN:HB3	1.98	0.44
18:7b:70:LEU:HD21	18:7b:149:LEU:HD22	2.00	0.44
17:7g:21:TRP:CE2	17:7g:63:ALA:HB2	2.52	0.44
17:8a:183:TYR:CZ	17:8a:388:MET:HG3	2.53	0.44
17:8a:257:LEU:O	17:8a:259:PRO:HD3	2.18	0.44
17:8c:208:TYR:CE1	17:8c:225:LEU:HD11	2.51	0.44
18:8d:206:ASN:OD1	21:8d:501:GTP:N2	2.48	0.44
17:8e:341:PHE:HB3	17:8e:348:ASN:ND2	2.33	0.44
18:9b:431:ASP:O	18:9b:435:VAL:HG22	2.18	0.44
17:9g:86:ARG:HH12	17:Ag:281:TYR:HB3	1.77	0.44
18:9h:1:MET:HA	18:9h:1:MET:HE2	1.98	0.44
17:Ac:145:SER:HB3	17:Ac:188:SER:OG	2.17	0.44
18:Ad:217:LEU:HD21	18:Ad:368:LEU:HD23	1.99	0.44
18:Af:200:VAL:HG23	18:Af:256:GLN:HG3	2.00	0.44
18:Ah:84:ARG:HH11	18:Ah:85:GLN:HE22	1.64	0.44
18:Ah:174:SER:HB3	18:Ah:207:GLU:HB2	2.00	0.44
17:Ba:270:PHE:O	17:Ba:273:LEU:HG	2.18	0.44
17:Bc:102:ALA:HB1	17:Bc:401:GLU:HB2	1.99	0.44
17:Ca:317:PHE:HB3	17:Ca:321:MET:SD	2.58	0.44
17:Ce:173:PRO:HB3	17:Ce:380:ARG:CZ	2.47	0.44
17:Ce:252:LYS:HE3	17:Ce:252:LYS:HB2	1.67	0.44
18:Cf:4:VAL:HG22	18:Cf:133:GLN:HB2	1.99	0.44
18:Cf:28:HIS:NE2	18:Cf:243:ARG:HD2	2.32	0.44
18:Cf:272:TYR:HB3	18:Cf:275:ILE:HD11	1.99	0.44
17:Dg:233:MET:O	17:Dg:236:ILE:HG22	2.17	0.44
1:0A:414:TRP:CZ3	2:0H:50:LYS:HE2	2.52	0.44
5:0M:218:MET:O	5:0M:222:LEU:HG	2.18	0.44
7:0Q:379:LEU:HD11	7:0Q:398:ARG:HH11	1.82	0.44
7:0S:498:THR:OG1	7:0S:499:THR:N	2.46	0.44
12:0Z:359:LYS:HA	12:0Z:362:LYS:HE2	2.00	0.44
13:1B:1297:GLN:HB3	13:1B:1335:LEU:HD12	1.99	0.44
14:1E:1031:ALA:O	14:1E:1035:VAL:HG23	2.17	0.44
14:1F:764:PRO:HA	14:1F:767:ALA:HB3	1.99	0.44
14:1G:955:PRO:HB2	14:1G:986:LEU:H	1.82	0.44
14:1G:1035:VAL:HG12	14:1G:1037:GLN:HG3	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1b:188:VAL:HG13	18:1b:425:LEU:HD22	2.00	0.44
17:1e:140:GLY:HA2	17:1e:184:ASN:HB2	1.99	0.44
17:2a:337:ASN:HB3	17:2a:340:TYR:HD2	1.82	0.44
17:2c:322:SER:OG	17:2c:325:GLU:HB2	2.18	0.44
18:2d:210:TYR:CD1	18:2d:227:LEU:HD21	2.53	0.44
17:2e:186:THR:HA	17:2e:415:MET:SD	2.57	0.44
17:2g:10:GLY:HA2	17:2g:143:THR:HG23	2.00	0.44
17:3a:83:GLN:O	17:4a:281:TYR:OH	2.29	0.44
17:3a:337:ASN:HB3	17:3a:340:TYR:HD2	1.83	0.44
18:3b:201:ALA:O	18:3b:267:PHE:HA	2.18	0.44
17:3c:232:VAL:HG21	17:3c:300:MET:CE	2.48	0.44
17:3c:274:THR:HG22	17:3c:282:ARG:HD3	1.99	0.44
18:3h:7:ILE:HG23	18:3h:66:ILE:HG23	2.00	0.44
18:4d:386:GLU:O	18:4d:390:ARG:HG3	2.18	0.44
18:5b:223:THR:O	18:5b:227:LEU:HG	2.17	0.44
17:5c:66:MET:HE3	17:5c:66:MET:HB2	1.72	0.44
17:5e:208:TYR:CE1	17:5e:225:LEU:HD11	2.52	0.44
17:6c:294:TRP:CE2	17:6c:333:VAL:HG11	2.53	0.44
18:6d:11:GLN:N	21:6d:501:GTP:O1A	2.48	0.44
17:6e:70:PRO:HB2	18:6f:1:MET:HE2	2.00	0.44
17:6g:193:VAL:HG22	17:6g:265:PHE:HE1	1.82	0.44
18:7b:15:GLN:HA	18:7b:18:ASN:HD22	1.83	0.44
18:8d:223:THR:O	18:8d:227:LEU:HG	2.18	0.44
18:8d:276:ILE:HD12	18:8d:281:ALA:HA	1.98	0.44
17:9a:318:ARG:HB3	17:9a:357:PRO:HA	1.99	0.44
18:9b:259:LEU:HB3	18:9b:268:MET:HE1	2.00	0.44
18:9d:194:LEU:O	18:9d:198:THR:HG22	2.18	0.44
18:9d:207:GLU:OE2	18:9d:304:LYS:NZ	2.51	0.44
18:9f:304:LYS:HD2	18:9f:304:LYS:HA	1.85	0.44
17:9g:308:GLY:HA2	17:9g:426:GLN:NE2	2.33	0.44
18:Ab:399:TYR:O	18:Ab:402:ARG:NH1	2.41	0.44
17:Ac:373:ALA:O	17:Ac:376:GLU:HG2	2.17	0.44
18:Ah:79:ARG:NH1	18:Ah:94:SER:OG	2.49	0.44
18:Ah:408:TYR:HB3	18:Ah:413:MET:HE2	1.99	0.44
18:Bb:19:ALA:O	18:Bb:22:GLU:HG3	2.18	0.44
18:Bb:223:THR:OG1	17:Bc:245:GLN:OE1	2.35	0.44
17:Bc:87:PRO:HA	17:Bc:90:PHE:HD1	1.83	0.44
18:Bd:16:VAL:HA	18:Bd:228:ASN:HB3	1.98	0.44
18:Cd:7:ILE:HG23	18:Cd:66:ILE:HG23	1.99	0.44
18:Cf:250:VAL:HG22	18:Cf:352:LYS:HE3	1.98	0.44
17:Cg:86:ARG:HD2	17:Dg:281:TYR:HB3	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Da:260:PHE:HB2	17:Da:263:LEU:HD13	2.00	0.44
18:Db:174:SER:HB2	18:Db:177:VAL:O	2.17	0.44
18:Db:216:SER:HB3	18:Db:275:ILE:O	2.17	0.44
18:Dd:194:LEU:O	18:Dd:198:THR:HG22	2.17	0.44
18:Dh:133:GLN:O	18:Dh:165:SER:OG	2.35	0.44
18:Dh:386:GLU:O	18:Dh:390:ARG:HG3	2.17	0.44
1:0D:313:VAL:HG11	1:0D:550:VAL:HG11	2.00	0.44
3:0I:161:LEU:HD23	3:0I:161:LEU:HA	1.82	0.44
3:0I:554:GLU:HG2	14:1G:606:GLU:CG	2.47	0.44
3:0J:362:ILE:HG22	3:0J:363:THR:N	2.33	0.44
8:0T:156:UNK:CB	18:Ch:113:GLU:HG3	2.48	0.44
12:0X:88:PHE:HA	12:0X:240:VAL:O	2.17	0.44
12:0X:102:SER:HA	12:0X:112:GLY:HA3	1.99	0.44
12:0Y:102:SER:HB2	12:0Y:191:PHE:HZ	1.81	0.44
12:0Z:110:HIS:O	12:0Z:116:ARG:NH2	2.42	0.44
12:1A:85:GLY:O	12:1A:237:LEU:HD12	2.17	0.44
13:1B:1144:THR:HG21	13:1B:1281:LYS:HG2	2.00	0.44
13:1B:1273:VAL:HG12	13:1B:1274:PHE:N	2.33	0.44
13:1B:1515:VAL:HA	13:1B:1594:LEU:O	2.17	0.44
13:1C:1659:ALA:HB3	13:1C:1660:PRO:HD3	2.00	0.44
14:1D:1005:ARG:HG3	14:1D:1008:GLU:OE2	2.18	0.44
14:1E:1036:ALA:HB1	14:1F:983:ARG:HG2	1.99	0.44
14:1F:544:VAL:HG11	14:1F:548:GLN:H	1.82	0.44
14:1G:577:LEU:HD11	14:1G:586:TRP:CD2	2.53	0.44
14:1G:857:LYS:H	14:1G:857:LYS:HD2	1.82	0.44
18:1b:79:ARG:NH1	18:1b:94:SER:OG	2.51	0.44
17:1e:54:ALA:HB1	17:2e:280:GLN:O	2.16	0.44
18:1h:138:PHE:CD1	18:1h:169:PHE:HB2	2.52	0.44
18:2d:255:PHE:O	18:2d:259:LEU:HB2	2.18	0.44
17:2e:175:VAL:H	17:2e:205:GLU:CD	2.26	0.44
17:2g:161:ASP:OD1	17:2g:161:ASP:N	2.45	0.44
17:3a:260:PHE:HB2	17:3a:263:LEU:HD13	2.00	0.44
18:3b:320:ARG:HH21	18:3b:358:GLN:HG3	1.82	0.44
17:3c:178:THR:OG1	17:3c:181:GLU:HG3	2.18	0.44
18:3f:21:TRP:CE3	18:3f:24:TYR:HD2	2.36	0.44
18:3h:210:TYR:CD1	18:3h:227:LEU:HD21	2.53	0.44
17:4a:49:VAL:C	17:4a:62:ARG:HH12	2.25	0.44
18:4d:9:ILE:HD13	18:4d:150:GLY:HA2	2.00	0.44
17:4g:391:ARG:HH22	18:4h:435:VAL:HA	1.83	0.44
18:4h:101:ASN:OD1	18:4h:143:GLY:HA2	2.18	0.44
18:5d:311:LYS:H	18:5d:382:THR:HG22	1.81	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5e:301:CYS:SG	17:5e:377:MET:HE1	2.58	0.44
18:5f:65:CYS:SG	18:5f:66:ILE:N	2.91	0.44
17:5g:252:LYS:HE3	17:5g:252:LYS:HB2	1.73	0.44
17:5g:374:ILE:HG23	17:5g:377:MET:CE	2.48	0.44
18:5h:338:LYS:HD2	18:5h:341:ILE:HG12	1.98	0.44
17:6a:183:TYR:CD1	17:6a:388:MET:HE3	2.52	0.44
17:6e:257:LEU:O	17:6e:259:PRO:HD3	2.17	0.44
17:6g:318:ARG:C	17:6g:321:MET:HE1	2.43	0.44
18:7b:227:LEU:O	18:7b:231:ILE:HG13	2.18	0.44
17:7e:382:SER:OG	17:7e:415:MET:HE2	2.18	0.44
18:7h:88:HIS:HB3	18:7h:91:GLN:HB2	2.00	0.44
18:7h:386:GLU:O	18:7h:390:ARG:HG3	2.18	0.44
17:8e:252:LYS:HB2	17:8e:252:LYS:HE3	1.66	0.44
17:8g:257:LEU:O	17:8g:259:PRO:HD3	2.17	0.44
17:9c:232:VAL:HG21	17:9c:300:MET:CE	2.48	0.44
17:9g:177:ASP:O	18:9h:352:LYS:HA	2.18	0.44
18:Ab:272:TYR:HB3	18:Ab:275:ILE:HD11	1.98	0.44
17:Ac:99:ASN:ND2	18:Ad:258:ASN:HD21	2.15	0.44
17:Ac:202:LEU:HD13	17:Ac:229:ILE:HG12	1.99	0.44
17:Ac:269:GLY:HA2	17:Ac:300:MET:HG2	2.00	0.44
17:Ae:294:TRP:CE2	17:Ae:333:VAL:HG11	2.53	0.44
18:Af:21:TRP:CZ3	18:Af:52:PHE:HB3	2.53	0.44
18:Af:210:TYR:CE1	17:Ag:324:LYS:HB2	2.53	0.44
18:Bb:390:ARG:HA	18:Bb:393:HIS:CE1	2.53	0.44
17:Bc:52:ASN:OD1	17:Bc:62:ARG:NH2	2.50	0.44
17:Bc:130:LEU:O	17:Bc:162:ARG:NE	2.50	0.44
17:Bg:67:ASP:OD1	17:Bg:68:LEU:N	2.50	0.44
17:Bg:207:LEU:HA	17:Bg:210:ILE:HG22	2.00	0.44
17:Cc:67:ASP:OD2	17:Cc:72:THR:OG1	2.28	0.44
17:Cc:207:LEU:HD11	17:Cc:229:ILE:HD11	2.00	0.44
17:Cc:286:VAL:O	17:Cc:290:THR:HG23	2.18	0.44
18:Cf:120:ASP:OD1	18:Cf:123:ARG:NH2	2.51	0.44
18:Cf:210:TYR:CE1	18:Cf:227:LEU:HD11	2.53	0.44
18:Dd:210:TYR:CD1	18:Dd:227:LEU:HD21	2.52	0.44
1:0C:438:ASP:O	1:0C:442:GLY:N	2.45	0.44
1:0D:461:GLN:OE1	1:0D:466:SER:OG	2.33	0.44
2:0E:146:THR:HG22	2:0E:149:LYS:HE3	2.00	0.44
2:0G:84:ALA:O	2:0G:87:GLN:NE2	2.51	0.44
2:0G:117:ASN:OD1	2:0G:117:ASN:N	2.51	0.44
3:0I:544:GLY:HA2	14:1G:578:LEU:HD11	2.00	0.44
4:0K:189:ALA:HB2	18:Bf:215:ARG:NH2	2.28	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0N:142:HIS:CE1	5:0N:144:MET:HB2	2.53	0.44
5:0N:236:MET:CE	5:0N:252:GLY:HA3	2.48	0.44
7:0Q:544:ALA:O	7:0Q:571:ARG:NH1	2.51	0.44
7:0S:500:TRP:NE1	7:0S:535:PRO:HA	2.31	0.44
12:0X:247:ARG:HH21	12:0X:321:GLU:HA	1.83	0.44
12:0Y:262:GLN:HE22	18:9h:411:GLU:C	2.25	0.44
12:0Z:222:MET:O	12:0Z:232:ALA:HA	2.17	0.44
12:1A:186:GLU:O	12:1A:190:GLN:OE1	2.35	0.44
13:1C:1203:LEU:HD23	13:1C:1275:LEU:HA	1.99	0.44
14:1D:1032:ARG:NH1	14:1D:1038:ARG:HD2	2.33	0.44
14:1E:925:ARG:O	14:1E:929:ARG:HG3	2.18	0.44
14:1E:961:LEU:HD23	14:1E:961:LEU:HA	1.86	0.44
14:1E:966:LEU:HD23	14:1E:966:LEU:HA	1.83	0.44
14:1F:814:ALA:HA	14:1F:817:ALA:HB3	2.00	0.44
17:1a:139:LEU:HD12	17:1a:170:VAL:HG22	1.99	0.44
17:1a:159:TYR:HB3	17:1a:162:ARG:HG3	1.99	0.44
18:1d:210:TYR:CD1	18:1d:227:LEU:HD21	2.53	0.44
18:1d:311:LYS:H	18:1d:382:THR:HG22	1.83	0.44
17:1g:377:MET:HG3	17:1g:380:ARG:HH22	1.83	0.44
17:1g:417:ASP:O	17:1g:421:GLU:HG2	2.17	0.44
18:2b:223:THR:O	18:2b:227:LEU:HG	2.18	0.44
18:2b:329:ASN:HA	18:2b:332:VAL:HG12	2.00	0.44
18:2d:210:TYR:CD1	18:2d:222:PRO:HB2	2.53	0.44
18:2f:267:PHE:O	18:2f:268:MET:HE2	2.18	0.44
18:2h:112:LYS:O	18:2h:115:VAL:HG12	2.17	0.44
18:2h:270:SER:OG	18:2h:302:MET:HE3	2.18	0.44
17:3a:201:VAL:O	17:3a:202:LEU:HD23	2.18	0.44
17:3c:208:TYR:CE1	17:3c:225:LEU:HD11	2.52	0.44
18:3d:205:ASP:OD2	18:3d:303:VAL:HG13	2.18	0.44
18:3f:4:VAL:HG22	18:3f:133:GLN:HB2	2.00	0.44
18:4b:250:VAL:HG22	18:4b:352:LYS:HE3	1.99	0.44
18:4d:250:VAL:HG22	18:4d:352:LYS:HE3	2.00	0.44
18:4f:175:PRO:HB3	18:4f:390:ARG:NE	2.32	0.44
17:4g:69:GLU:HA	17:4g:70:PRO:HD3	1.88	0.44
18:5d:222:PRO:HD2	17:5e:324:LYS:HG2	2.00	0.44
18:5d:253:THR:HA	18:5d:256:GLN:HE22	1.83	0.44
17:5e:73:MET:HE1	17:5e:91:VAL:O	2.17	0.44
17:5g:174:LYS:HB2	17:5g:205:GLU:OE2	2.17	0.44
17:5g:375:GLN:HE22	17:5g:423:GLN:CD	2.24	0.44
18:6d:210:TYR:CD1	18:6d:227:LEU:HD21	2.53	0.44
17:6e:378:PHE:HB3	17:6e:415:MET:SD	2.57	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6f:390:ARG:HA	18:6f:393:HIS:CD2	2.53	0.44
18:7d:21:TRP:CE3	18:7d:24:TYR:HD2	2.36	0.44
17:7e:10:GLY:O	17:7e:14:ASN:ND2	2.51	0.44
18:7h:217:LEU:HG	18:7h:275:ILE:HG22	2.00	0.44
18:8b:210:TYR:CG	17:8c:324:LYS:HD3	2.53	0.44
18:8d:311:LYS:H	18:8d:382:THR:CG2	2.31	0.44
18:8d:386:GLU:O	18:8d:390:ARG:HG3	2.17	0.44
18:8h:3:GLU:HA	18:8h:51:THR:HA	2.00	0.44
18:9b:112:LYS:O	18:9b:115:VAL:HG12	2.18	0.44
18:9b:293:ASN:O	18:9b:297:GLU:HG2	2.18	0.44
18:9d:135:PHE:HZ	18:9d:161:TYR:CE2	2.36	0.44
17:9e:318:ARG:HB3	17:9e:357:PRO:HA	1.99	0.44
18:9h:55:GLU:HG3	18:9h:61:HIS:CE1	2.53	0.44
18:9h:135:PHE:HZ	18:9h:161:TYR:CE1	2.36	0.44
18:9h:246:GLY:HA2	18:9h:357:TYR:CD2	2.53	0.44
17:Aa:230:SER:HA	17:Aa:233:MET:HE3	2.00	0.44
17:Bc:220:PRO:CD	18:Bd:326:LYS:HD3	2.35	0.44
17:Be:375:GLN:NE2	17:Be:423:GLN:OE1	2.36	0.44
18:Cb:101:ASN:HA	18:Cb:144:GLY:H	1.82	0.44
17:Cc:232:VAL:HG21	17:Cc:300:MET:CE	2.48	0.44
17:Da:130:LEU:O	17:Da:162:ARG:NE	2.51	0.44
17:Da:200:MET:SD	17:Da:266:PHE:HB2	2.58	0.44
17:Dg:66:MET:HE2	17:Dg:147:MET:HE2	1.99	0.44
17:Dg:143:THR:O	17:Dg:147:MET:HB3	2.17	0.44
17:Dg:260:PHE:HB2	17:Dg:263:LEU:HD13	1.99	0.44
1:0C:153:ARG:HA	1:0C:156:ARG:HG2	1.99	0.44
1:0C:191:ILE:H	1:0C:191:ILE:HD12	1.83	0.44
1:0C:546:ARG:NE	1:0C:588:PRO:HA	2.33	0.44
1:0D:396:ASP:HB3	1:0D:399:LYS:HG3	2.00	0.44
2:0G:70:ASN:ND2	2:0G:93:ASN:OD1	2.51	0.44
3:0I:250:PRO:CD	16:1M:102:UNK:HA	2.48	0.44
3:0I:538:ARG:HH22	14:1G:983:ARG:CB	2.30	0.44
3:0J:153:LYS:HA	3:0J:156:GLU:OE1	2.18	0.44
3:0J:212:ARG:NH1	17:Cc:296:ALA:O	2.51	0.44
3:0J:313:TRP:HE1	18:Bd:158:SER:HB3	1.82	0.44
3:0J:537:VAL:HG21	14:1F:953:GLU:HG2	2.00	0.44
5:0N:379:LEU:HD12	18:Db:279:GLU:OE2	2.17	0.44
7:0Q:129:VAL:HB	7:0Q:138:VAL:HG12	1.99	0.44
7:0S:3:LEU:HD22	7:0S:615:TRP:HB3	2.00	0.44
7:0S:122:PHE:C	7:0S:124:ASP:H	2.26	0.44
7:0S:609:ASP:OD1	7:0S:610:GLY:N	2.51	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:0X:87:ILE:HB	12:0X:239:LEU:HD13	1.99	0.44
12:0Z:7:LYS:O	12:0Z:307:VAL:HG13	2.17	0.44
12:0Z:299:ALA:C	12:0Z:301:GLY:H	2.25	0.44
13:1B:1344:LEU:HD23	13:1B:1389:VAL:HG11	2.00	0.44
13:1B:1609:PHE:O	13:1B:1736:ARG:HA	2.18	0.44
14:1G:761:LEU:HD22	14:1G:798:ALA:HB1	1.99	0.44
18:1h:320:ARG:HB2	18:1h:374:ALA:HB3	2.00	0.44
17:2a:324:LYS:HB2	18:2h:210:TYR:CE1	2.53	0.44
18:2b:210:TYR:CD1	18:2b:227:LEU:HD21	2.53	0.44
17:2c:228:LEU:HD23	17:2c:300:MET:HE2	1.99	0.44
17:2e:202:LEU:HD13	17:2e:229:ILE:HG12	1.99	0.44
18:2h:293:ASN:O	18:2h:297:GLU:HG2	2.17	0.44
18:2h:326:LYS:HG3	18:2h:327:ASP:N	2.32	0.44
17:3a:74:ASP:OD1	17:3a:77:ARG:NH2	2.47	0.44
17:3a:173:PRO:HB3	17:3a:380:ARG:CZ	2.48	0.44
17:3a:200:MET:HE3	17:3a:268:VAL:HG11	1.99	0.44
18:3b:212:ILE:HD12	18:3b:302:MET:HG2	1.99	0.44
17:3e:184:ASN:OD1	17:3e:398:TYR:OH	2.25	0.44
17:3e:373:ALA:O	17:3e:376:GLU:HG2	2.17	0.44
18:4d:201:ALA:O	18:4d:267:PHE:HA	2.18	0.44
17:4g:178:THR:OG1	17:4g:181:GLU:HG3	2.18	0.44
18:4h:408:TYR:O	18:4h:413:MET:HB2	2.18	0.44
17:5a:64:ILE:HD11	17:5a:123:GLU:HG3	2.00	0.44
17:5a:260:PHE:HB2	17:5a:263:LEU:HD13	2.00	0.44
17:5c:274:THR:HG22	17:5c:282:ARG:HD3	1.99	0.44
17:6a:272:PRO:HD3	17:6a:364:SER:HA	1.99	0.44
17:6c:73:MET:HA	17:6c:76:VAL:HB	1.99	0.44
17:6c:385:PHE:CE2	17:6c:412:GLU:HB2	2.53	0.44
18:6h:220:GLU:C	18:6h:222:PRO:HD3	2.43	0.44
17:7a:86:ARG:NH2	17:8a:281:TYR:O	2.51	0.44
17:7a:252:LYS:HE3	17:7a:252:LYS:HB2	1.64	0.44
18:7b:132:LEU:HB3	18:7b:164:LYS:HE2	1.99	0.44
18:7b:210:TYR:CD1	18:7b:227:LEU:HD21	2.52	0.44
18:7d:169:PHE:HZ	18:7d:238:LEU:HD13	1.83	0.44
17:7e:183:TYR:OH	17:7e:388:MET:HG2	2.18	0.44
18:7f:293:ASN:O	18:7f:297:GLU:HG2	2.17	0.44
18:7f:407:TRP:HZ2	17:7g:258:ILE:HD12	1.83	0.44
17:7g:317:PHE:HE1	17:7g:330:MET:HE1	1.83	0.44
18:8b:103:PHE:HD1	18:8b:413:MET:HE1	1.83	0.44
18:8b:386:GLU:O	18:8b:390:ARG:HG3	2.17	0.44
17:8c:391:ARG:HH22	18:8d:435:VAL:HA	1.83	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8g:321:MET:HG2	17:8g:363:MET:HE2	1.98	0.44
18:8h:265:ILE:HG22	18:8h:380:ASN:HD21	1.82	0.44
17:9a:345:ILE:HG23	18:9h:398:MET:HE2	1.99	0.44
17:9c:201:VAL:HG11	17:9c:377:MET:HE2	1.99	0.44
17:9e:110:ALA:O	17:9e:113:ILE:HG22	2.18	0.44
17:9e:321:MET:CE	17:9e:363:MET:HE3	2.46	0.44
18:Ab:138:PHE:CD1	18:Ab:169:PHE:HB2	2.53	0.44
17:Ac:252:LYS:HB2	17:Ac:252:LYS:HE3	1.70	0.44
18:Ad:210:TYR:CD1	18:Ad:222:PRO:HB2	2.52	0.44
17:Ba:200:MET:SD	17:Ba:266:PHE:HB2	2.58	0.44
17:Ba:269:GLY:HA2	17:Ba:300:MET:HG3	1.98	0.44
18:Bb:30:ILE:HA	18:Bb:36:MET:HB3	1.99	0.44
17:Bc:326:VAL:O	17:Bc:330:MET:HG2	2.18	0.44
17:Be:228:LEU:HB3	17:Be:300:MET:HE1	1.99	0.44
17:Be:238:CYS:HG	17:Be:241:ARG:HH22	1.66	0.44
17:Ca:132:GLY:HA3	17:Ca:163:MET:O	2.18	0.44
17:Ce:64:ILE:HG12	17:Ce:119:VAL:HG12	2.00	0.44
17:Da:208:TYR:HA	17:Da:211:CYS:SG	2.57	0.44
18:Df:123:ARG:NH2	18:Df:160:ASP:HB2	2.33	0.44
17:Dg:67:ASP:OD1	17:Dg:143:THR:HG21	2.18	0.44
18:Dh:138:PHE:CD1	18:Dh:169:PHE:HB2	2.53	0.44
1:0A:438:ASP:OD2	1:0A:445:ARG:NH2	2.50	0.43
1:0D:328:SER:HB2	1:0D:597:GLY:O	2.18	0.43
1:0D:383:LEU:HB2	1:0D:397:PHE:CZ	2.53	0.43
1:0D:546:ARG:NE	1:0D:588:PRO:HA	2.32	0.43
2:0G:29:ASP:OD2	2:0G:31:THR:OG1	2.20	0.43
3:0J:475:PRO:HA	3:0J:476:PRO:HD3	1.92	0.43
13:1C:1276:HIS:HA	13:1C:1282:ARG:HG2	2.00	0.43
14:1D:1032:ARG:HD3	14:1D:1032:ARG:HA	1.72	0.43
14:1E:978:LEU:HD23	14:1E:978:LEU:HA	1.88	0.43
14:1F:1004:GLN:O	14:1F:1008:GLU:HG3	2.18	0.43
17:1a:299:MET:HE1	17:1a:367:PHE:HD2	1.83	0.43
18:1b:224:TYR:HD1	18:1b:227:LEU:HD12	1.83	0.43
18:1f:139:ASN:OD1	18:1f:170:THR:HG22	2.18	0.43
17:2a:46:ARG:HH21	18:2h:73:THR:HA	1.84	0.43
18:2b:138:PHE:CD1	18:2b:169:PHE:HB2	2.53	0.43
17:3a:274:THR:HG22	17:3a:282:ARG:HD3	2.00	0.43
18:3b:210:TYR:CD1	18:3b:227:LEU:HD21	2.53	0.43
17:3c:379:LYS:O	17:3c:383:GLU:HG2	2.18	0.43
18:3d:79:ARG:HG3	18:3d:92:LEU:HD22	2.00	0.43
17:3g:67:ASP:OD2	17:3g:72:THR:OG1	2.22	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:4d:96:LYS:HE3	17:4e:129:CYS:HB2	1.99	0.43
17:4e:202:LEU:HD13	17:4e:229:ILE:HG12	2.00	0.43
17:4e:252:LYS:HB2	17:4e:252:LYS:HE3	1.64	0.43
18:4h:372:GLN:HG3	18:4h:373:ARG:HG3	2.00	0.43
18:5f:105:ARG:HG2	18:5f:110:ILE:HD12	2.00	0.43
18:5f:319:TYR:HB3	18:5f:323:VAL:HG21	2.00	0.43
17:5g:113:ILE:HG12	17:5g:150:LEU:HG	2.00	0.43
18:5h:216:SER:HB3	18:5h:275:ILE:O	2.18	0.43
18:5h:234:VAL:O	18:5h:237:SER:OG	2.30	0.43
18:5h:287:SER:OG	18:5h:290:GLU:HG2	2.18	0.43
18:5h:386:GLU:O	18:5h:390:ARG:HG3	2.18	0.43
17:6a:346:PRO:HD3	18:6h:397:LEU:HD23	1.98	0.43
18:6b:312:TYR:HA	18:6b:381:SER:HB2	1.99	0.43
18:6d:259:LEU:HD22	18:6d:268:MET:HE1	1.99	0.43
18:6d:385:GLY:HA2	18:6d:388:PHE:HD2	1.83	0.43
17:6g:385:PHE:CE2	17:6g:412:GLU:HB2	2.53	0.43
18:6h:234:VAL:HG22	18:6h:272:TYR:HB2	2.00	0.43
17:7a:73:MET:HE2	17:7a:73:MET:HB3	1.73	0.43
18:7b:206:ASN:OD1	21:7b:501:GTP:N2	2.47	0.43
17:7c:132:GLY:HA3	17:7c:163:MET:O	2.18	0.43
18:7d:145:THR:OG1	21:7d:501:GTP:O3B	2.31	0.43
18:7d:202:VAL:C	18:7d:203:MET:HE2	2.43	0.43
17:7g:188:SER:O	17:7g:192:LEU:HD23	2.17	0.43
17:8e:67:ASP:OD1	17:8e:68:LEU:N	2.51	0.43
17:8g:54:ALA:HB3	17:8g:58:ARG:HB3	1.99	0.43
18:9b:231:ILE:HG22	18:9b:235:ILE:HD11	1.99	0.43
17:9c:67:ASP:OD2	17:9c:72:THR:OG1	2.19	0.43
17:9e:407:GLU:HA	17:9e:410:GLU:HG3	1.98	0.43
17:Aa:252:LYS:HB2	17:Aa:252:LYS:HE3	1.71	0.43
18:Af:210:TYR:CD1	18:Af:227:LEU:HD21	2.53	0.43
17:Ba:99:ASN:HA	17:Ba:142:GLY:H	1.83	0.43
17:Ba:317:PHE:HB3	17:Ba:321:MET:CE	2.47	0.43
18:Bh:79:ARG:HG3	18:Bh:92:LEU:HD22	2.00	0.43
17:Cc:397:TRP:O	17:Cc:401:GLU:HG2	2.18	0.43
17:Cc:308:GLY:HA2	17:Cc:426:GLN:NE2	2.33	0.43
18:Cf:169:PHE:HZ	18:Cf:238:LEU:HD13	1.83	0.43
17:Da:233:MET:O	17:Da:236:ILE:HG22	2.18	0.43
17:Da:274:THR:HG22	17:Da:282:ARG:HD3	1.99	0.43
17:De:109:GLY:O	17:De:113:ILE:HB	2.18	0.43
18:Df:115:VAL:O	18:Df:119:LEU:HD23	2.18	0.43
1:0A:586:PHE:HE2	1:0A:590:GLY:HA2	1.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0B:342:VAL:HG11	1:0B:374:VAL:HG11	1.99	0.43
1:0C:327:LEU:HD23	2:0E:152:ARG:NH1	2.28	0.43
1:0D:410:LYS:HB3	17:Da:406:MET:HE2	2.00	0.43
2:0F:143:GLU:CD	2:0F:151:PRO:HD3	2.43	0.43
3:0J:463:PRO:O	14:1F:942:MET:HE2	2.19	0.43
4:0K:192:ARG:HB3	18:Bf:298:PRO:HD3	1.99	0.43
10:0V:54:UNK:CB	18:2d:113:GLU:HG3	2.49	0.43
12:0X:232:ALA:HB3	12:0X:349:LEU:HD11	2.00	0.43
12:0X:299:ALA:C	12:0X:301:GLY:H	2.26	0.43
12:0Y:45:ASN:ND2	18:9h:262:TYR:CG	2.86	0.43
12:1A:122:PHE:O	12:1A:125:VAL:HG22	2.18	0.43
14:1E:887:LEU:HA	14:1E:890:TRP:HD1	1.82	0.43
14:1E:999:TYR:CB	14:1E:1008:GLU:HG2	2.47	0.43
14:1G:1048:ALA:HA	14:1G:1051:ARG:HH11	1.83	0.43
18:1b:137:VAL:HG21	18:1b:154:LEU:HD21	2.00	0.43
18:1d:182:VAL:HG22	17:1e:256:ASN:HD21	1.83	0.43
17:1e:6:HIS:HE1	17:1e:233:MET:HE1	1.82	0.43
17:1e:31:ASP:OD2	17:1e:33:THR:OG1	2.33	0.43
17:1e:113:ILE:HG13	17:1e:117:LEU:HD23	2.00	0.43
17:1e:273:LEU:H	17:1e:292:GLN:NE2	2.16	0.43
17:1g:341:PHE:HB3	17:1g:348:ASN:ND2	2.32	0.43
17:1g:388:MET:HE3	17:1g:394:PHE:CD2	2.54	0.43
17:1g:391:ARG:NH1	18:1h:438:GLU:O	2.50	0.43
18:1h:244:PHE:O	18:1h:356:ASN:ND2	2.47	0.43
17:2a:245:GLN:OE1	18:2h:223:THR:OG1	2.36	0.43
18:2d:227:LEU:O	18:2d:231:ILE:HG13	2.18	0.43
17:2e:276:ARG:NH1	17:2e:279:GLN:OE1	2.50	0.43
18:2f:227:LEU:O	18:2f:231:ILE:HG13	2.18	0.43
17:2g:72:THR:O	17:2g:75:SER:OG	2.29	0.43
17:2g:159:TYR:HB3	17:2g:162:ARG:HG3	1.99	0.43
18:3b:5:ILE:HG13	18:3b:132:LEU:HD11	2.00	0.43
17:3e:228:LEU:HB3	17:3e:300:MET:HE1	1.99	0.43
17:3e:282:ARG:NH1	17:3e:292:GLN:OE1	2.38	0.43
18:3h:174:SER:HB2	18:3h:177:VAL:O	2.17	0.43
17:4a:74:ASP:OD1	17:4a:77:ARG:NH2	2.51	0.43
18:4f:185:TYR:CE1	18:4f:398:MET:HE2	2.53	0.43
17:5a:377:MET:HG3	17:5a:380:ARG:NH2	2.33	0.43
17:5a:377:MET:HG3	17:5a:380:ARG:HH22	1.83	0.43
17:5g:99:ASN:HA	17:5g:142:GLY:H	1.84	0.43
18:5h:252:ILE:HD13	18:5h:255:PHE:CE2	2.53	0.43
18:6b:203:MET:HE3	18:6b:267:PHE:HD1	1.81	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:6c:252:LYS:HB2	17:6c:252:LYS:HE3	1.67	0.43
17:6c:294:TRP:HE1	17:6c:330:MET:HE1	1.82	0.43
18:6d:223:THR:O	18:6d:227:LEU:HG	2.18	0.43
18:6d:271:SER:HB3	18:6d:301:MET:HG2	1.99	0.43
17:6g:134:GLN:HA	17:6g:165:LEU:O	2.18	0.43
18:7d:15:GLN:HB3	18:7d:228:ASN:HD21	1.83	0.43
17:7g:318:ARG:C	17:7g:321:MET:HE1	2.43	0.43
18:8d:137:VAL:HG21	18:8d:154:LEU:HD21	1.99	0.43
18:8d:194:LEU:O	18:8d:198:THR:HG22	2.18	0.43
18:8f:105:ARG:HG2	18:8f:110:ILE:HD12	1.99	0.43
18:8h:224:TYR:HD1	18:8h:227:LEU:HD12	1.83	0.43
18:8h:298:PRO:HB3	18:8h:307:PRO:HD2	2.00	0.43
18:Ab:96:LYS:HE3	17:Ac:129:CYS:HB2	2.00	0.43
17:Ac:193:VAL:HG22	17:Ac:265:PHE:HE1	1.84	0.43
17:Ac:257:LEU:O	17:Ac:259:PRO:HD3	2.19	0.43
17:Ae:341:PHE:HB3	17:Ae:348:ASN:ND2	2.33	0.43
18:Bf:205:ASP:HB2	18:Bf:303:VAL:HA	1.99	0.43
18:Bf:318:MET:HE1	18:Bf:378:ILE:HG22	2.00	0.43
18:Bf:319:TYR:HB3	18:Bf:323:VAL:HG21	2.00	0.43
17:Bg:203:ASP:OD2	17:Bg:377:MET:HE1	2.17	0.43
17:Ca:67:ASP:OD1	17:Ca:68:LEU:N	2.51	0.43
18:Cb:241:SER:HA	18:Cb:356:ASN:HD22	1.82	0.43
17:Ce:316:LEU:HB2	17:Ce:366:THR:HG22	2.00	0.43
18:Cf:210:TYR:CD1	18:Cf:227:LEU:HD21	2.52	0.43
17:Dg:106:TYR:HE2	17:Dg:403:MET:HE2	1.84	0.43
17:Dg:238:CYS:SG	17:Dg:241:ARG:NH2	2.90	0.43
1:0A:95:PHE:HB2	1:0D:91:THR:HB	1.99	0.43
1:0B:118:TYR:OH	1:0C:73:GLU:O	2.27	0.43
1:0B:310:ALA:HB2	1:0B:549:GLN:H	1.83	0.43
1:0C:335:HIS:CD2	1:0C:336:PRO:HD2	2.54	0.43
1:0D:191:ILE:H	1:0D:191:ILE:HD12	1.84	0.43
1:0D:411:GLN:HB3	1:0D:430:LEU:HB3	2.00	0.43
1:0D:564:SER:HB2	1:0D:571:GLN:HE21	1.84	0.43
3:0I:90:SER:N	3:0I:93:THR:HG1	2.16	0.43
3:0I:362:ILE:HG22	3:0I:363:THR:N	2.33	0.43
3:0J:207:TRP:CE2	3:0J:211:LEU:HD11	2.53	0.43
4:0K:93:GLN:O	4:0K:96:GLN:HG3	2.19	0.43
4:0L:105:LEU:HD23	4:0L:105:LEU:HA	1.83	0.43
5:0M:163:VAL:HG21	17:Ce:19:LYS:HD3	1.99	0.43
5:0M:743:HIS:NE2	18:Bf:54:SER:HB2	2.33	0.43
5:0N:273:ASP:O	5:0N:284:GLU:HG2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0N:742:PHE:CE2	18:Bb:57:GLY:HA2	2.53	0.43
6:0O:177:TYR:HB2	17:Bg:80:PRO:HG3	2.00	0.43
7:0Q:212:LEU:HB3	7:0Q:224:VAL:CG2	2.49	0.43
7:0Q:415:HIS:NE2	7:0Q:437:SER:OG	2.38	0.43
7:0Q:526:LYS:HG2	7:0Q:542:VAL:HA	2.00	0.43
7:0S:482:GLU:N	7:0S:505:MET:HE2	2.33	0.43
9:0U:92:UNK:N	18:5f:338:LYS:HD3	2.34	0.43
12:0Y:224:THR:HB	12:0Y:231:ARG:NH2	2.33	0.43
12:0Z:7:LYS:HB2	12:0Z:307:VAL:HG22	1.99	0.43
12:1A:322:THR:O	12:1A:326:LEU:HD23	2.18	0.43
13:1B:1299:LEU:HD11	13:1B:1327:LEU:HB3	2.01	0.43
13:1C:1242:MET:HG2	13:1C:1245:ARG:HD2	2.00	0.43
14:1G:577:LEU:HD21	14:1G:586:TRP:CZ3	2.52	0.43
14:1G:850:LEU:HB2	14:1G:872:TYR:CE1	2.53	0.43
18:1b:227:LEU:O	18:1b:231:ILE:HG13	2.17	0.43
18:1d:210:TYR:CD1	18:1d:222:PRO:HB2	2.53	0.43
17:1e:272:PRO:HD3	17:1e:364:SER:HA	2.00	0.43
17:1e:341:PHE:HB3	17:1e:348:ASN:ND2	2.33	0.43
18:1f:27:GLU:OE2	18:1f:320:ARG:NH2	2.42	0.43
17:1g:66:MET:SD	17:1g:116:VAL:HG21	2.58	0.43
18:1h:8:HIS:ND1	18:1h:65:CYS:SG	2.87	0.43
18:1h:306:ASP:HB3	18:1h:309:HIS:CE1	2.54	0.43
17:2a:31:ASP:OD2	17:2a:33:THR:OG1	2.26	0.43
17:2c:98:GLY:HA2	18:2d:254:GLU:CD	2.44	0.43
18:2d:174:SER:HB3	18:2d:207:GLU:HB2	1.98	0.43
18:2f:250:VAL:HA	18:2f:254:GLU:OE1	2.18	0.43
17:2g:260:PHE:HB2	17:2g:263:LEU:HD13	2.00	0.43
17:3c:173:PRO:HB3	17:3c:380:ARG:CZ	2.49	0.43
18:3d:102:ASN:HB3	18:3d:105:ARG:HB2	1.99	0.43
18:3d:115:VAL:O	18:3d:119:LEU:HD23	2.19	0.43
17:3e:318:ARG:HB3	17:3e:357:PRO:HA	1.99	0.43
17:3g:66:MET:HG3	17:3g:147:MET:CE	2.39	0.43
17:3g:269:GLY:HA2	17:3g:300:MET:HE2	2.01	0.43
18:3h:224:TYR:HD1	18:3h:227:LEU:HD12	1.84	0.43
18:3h:311:LYS:H	18:3h:382:THR:HG22	1.83	0.43
18:4b:53:PHE:HB3	18:4b:61:HIS:HB3	2.00	0.43
17:4e:167:PHE:CZ	17:4e:233:MET:HG2	2.53	0.43
17:5e:397:TRP:CH2	18:5f:256:GLN:HB3	2.53	0.43
18:5h:15:GLN:HB3	18:5h:228:ASN:ND2	2.33	0.43
17:6a:117:LEU:HB3	17:6a:121:ARG:HH12	1.82	0.43
18:6b:76:ASP:OD2	17:6c:46:ARG:NH2	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6d:202:VAL:C	18:6d:203:MET:HE2	2.43	0.43
18:6f:138:PHE:CD1	18:6f:169:PHE:HB2	2.53	0.43
17:7c:31:ASP:OD2	17:7c:33:THR:OG1	2.26	0.43
17:7e:12:CYS:SG	17:7e:138:SER:HB3	2.58	0.43
18:7f:102:ASN:ND2	18:7f:411:GLU:OE1	2.51	0.43
18:7f:216:SER:HB3	18:7f:275:ILE:O	2.18	0.43
17:7g:145:SER:HB3	17:7g:188:SER:OG	2.18	0.43
17:8e:177:ASP:O	18:8f:352:LYS:HA	2.19	0.43
17:8g:200:MET:HE1	17:8g:266:PHE:HD2	1.84	0.43
17:9a:263:LEU:HD11	17:9a:421:GLU:HG2	1.99	0.43
18:9d:133:GLN:NE2	18:9d:251:ASP:OD2	2.51	0.43
18:9h:7:ILE:HG23	18:9h:66:ILE:HG23	2.00	0.43
17:Ac:137:HIS:O	17:Ac:168:SER:HA	2.18	0.43
18:Ad:88:HIS:HB3	18:Ad:91:GLN:HB2	2.00	0.43
17:Ae:98:GLY:O	18:Af:257:THR:OG1	2.20	0.43
17:Ae:321:MET:HB2	17:Ae:321:MET:HE3	1.78	0.43
17:Bc:391:ARG:HH21	18:Bd:435:VAL:HA	1.82	0.43
18:Bd:198:THR:HG21	18:Bd:201:ALA:HB2	2.01	0.43
17:Be:179:VAL:HG11	17:Be:394:PHE:CZ	2.52	0.43
17:Bg:60:VAL:HG11	17:Bg:86:ARG:CZ	2.48	0.43
17:Ca:200:MET:HG2	17:Ca:266:PHE:HB2	1.99	0.43
17:Cc:66:MET:SD	17:Cc:147:MET:HB3	2.58	0.43
17:Cc:299:MET:HE1	17:Cc:367:PHE:CD2	2.53	0.43
17:Cc:313:ALA:HB1	17:Cc:367:PHE:CE1	2.52	0.43
17:Cc:417:ASP:O	17:Cc:421:GLU:HG2	2.18	0.43
18:Cd:227:LEU:O	18:Cd:231:ILE:HG13	2.18	0.43
17:Cg:10:GLY:O	17:Cg:14:ASN:ND2	2.52	0.43
18:Db:311:LYS:H	18:Db:382:THR:HG22	1.83	0.43
17:Dc:101:TRP:HE3	17:Dc:403:MET:HE1	1.83	0.43
18:Dd:413:MET:HE3	18:Dd:417:GLU:HB2	1.99	0.43
18:Df:265:ILE:HG21	18:Df:313:MET:HE1	1.99	0.43
1:0B:370:TRP:HZ3	1:0B:372:ALA:HB2	1.83	0.43
1:0C:493:HIS:CE1	1:0C:519:LYS:HB2	2.53	0.43
1:0C:576:GLY:O	1:0C:603:ARG:NH1	2.52	0.43
2:0F:34:GLY:HA3	18:Dd:263:PRO:HG2	2.01	0.43
3:0I:549:GLU:HA	3:0I:552:LEU:HD13	2.00	0.43
3:0J:212:ARG:HG3	17:Cc:209:ASP:OD2	2.18	0.43
3:0J:564:ALA:HA	3:0J:567:ARG:NE	2.33	0.43
3:0J:576:ARG:CZ	3:0J:577:ARG:HA	2.48	0.43
3:0J:578:PRO:HA	3:0J:581:HIS:ND1	2.34	0.43
5:0M:362:THR:OG1	5:0M:364:CYS:SG	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0M:367:LEU:HD23	5:0M:367:LEU:HA	1.85	0.43
5:0M:628:ILE:HD13	17:1a:227:HIS:HB3	2.00	0.43
6:0O:73:ARG:HD3	6:0O:73:ARG:HA	1.77	0.43
7:0Q:60:ILE:HA	7:0Q:74:THR:O	2.18	0.43
7:0Q:446:VAL:HB	7:0Q:456:ALA:HB3	1.99	0.43
12:0Y:56:ASP:HB2	12:0Y:333:ARG:HH22	1.83	0.43
12:0Y:247:ARG:O	12:0Y:248:THR:OG1	2.36	0.43
12:0Z:65:GLU:HG3	12:0Z:116:ARG:NH2	2.27	0.43
12:1A:83:TYR:O	12:1A:235:SER:HA	2.19	0.43
12:1A:134:ARG:HB3	12:1A:221:GLU:HG2	2.00	0.43
13:1B:1215:GLU:H	13:1B:1217:TRP:CD1	2.36	0.43
13:1C:1272:PRO:HB2	13:1C:1284:ARG:NH1	2.32	0.43
14:1E:398:PRO:HG2	14:1E:400:ARG:NH2	2.33	0.43
14:1E:546:ASP:OD1	14:1E:547:LYS:N	2.50	0.43
14:1F:400:ARG:HH22	14:1F:404:GLU:HB3	1.82	0.43
14:1G:773:LEU:O	14:1G:777:LEU:HG	2.18	0.43
17:1c:138:SER:OG	20:1c:501:GDP:O1A	2.36	0.43
18:1f:320:ARG:HH21	18:1f:358:GLN:HG3	1.83	0.43
17:1g:21:TRP:CZ3	17:1g:61:PRO:HB3	2.53	0.43
17:2c:69:GLU:HA	17:2c:70:PRO:HD3	1.89	0.43
17:2g:173:PRO:HB3	17:2g:380:ARG:CZ	2.48	0.43
17:2g:252:LYS:HE3	17:2g:252:LYS:HB2	1.68	0.43
18:2h:250:VAL:HA	18:2h:254:GLU:OE1	2.17	0.43
17:3c:174:LYS:HB3	17:3c:205:GLU:OE2	2.18	0.43
18:3f:73:THR:HA	17:3g:46:ARG:HH21	1.83	0.43
17:3g:174:LYS:NZ	18:3h:333:ALA:HB1	2.33	0.43
18:3h:21:TRP:CZ3	18:3h:52:PHE:HB3	2.53	0.43
17:4c:152:ILE:HG12	17:4c:164:MET:SD	2.59	0.43
17:5a:69:GLU:HA	17:5a:70:PRO:HD3	1.91	0.43
18:5b:198:THR:HG21	18:5b:201:ALA:HB2	2.00	0.43
17:5e:21:TRP:CE3	17:5e:61:PRO:HB3	2.54	0.43
18:5f:205:ASP:O	18:5f:209:ILE:HG13	2.18	0.43
18:5f:207:GLU:OE2	18:5f:304:LYS:NZ	2.51	0.43
17:5g:253:LEU:HD11	17:5g:316:LEU:HD21	2.00	0.43
17:5g:272:PRO:HD3	17:5g:364:SER:HA	2.01	0.43
17:6a:139:LEU:HA	17:6a:145:SER:OG	2.18	0.43
17:6a:286:VAL:HB	17:6a:325:GLU:OE2	2.17	0.43
18:6d:253:THR:OG1	18:6d:254:GLU:OE2	2.31	0.43
17:6e:174:LYS:NZ	18:6f:333:ALA:HB1	2.33	0.43
17:6g:257:LEU:O	17:6g:259:PRO:HD3	2.18	0.43
18:7d:199:ASP:HB3	18:7d:256:GLN:HG2	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:7h:8:HIS:ND1	18:7h:65:CYS:SG	2.88	0.43
18:8b:210:TYR:CE1	18:8b:227:LEU:HD11	2.53	0.43
18:8d:316:CYS:HB3	18:8d:378:ILE:HG23	1.99	0.43
17:8g:252:LYS:HB2	17:8g:252:LYS:HE3	1.65	0.43
17:9c:98:GLY:O	18:9d:257:THR:OG1	2.22	0.43
17:9e:203:ASP:OD2	17:9e:302:ALA:N	2.31	0.43
18:9f:103:PHE:HD1	18:9f:413:MET:HE1	1.84	0.43
17:9g:27:GLU:OE2	17:9g:318:ARG:NH2	2.46	0.43
18:Ab:102:ASN:HB3	18:Ab:105:ARG:HB2	2.00	0.43
18:Ab:370:LYS:O	18:Ab:370:LYS:HD3	2.18	0.43
17:Ac:170:VAL:HG21	17:Ac:201:VAL:HG13	2.00	0.43
18:Af:88:HIS:HB3	18:Af:91:GLN:HB2	2.01	0.43
17:Ag:73:MET:HE1	17:Ag:91:VAL:O	2.19	0.43
17:Ag:203:ASP:OD2	17:Ag:377:MET:HE1	2.18	0.43
17:Ag:278:SER:HA	17:Ag:281:TYR:HD1	1.83	0.43
18:Bb:7:ILE:HG23	18:Bb:66:ILE:HG23	2.00	0.43
17:Be:64:ILE:HD11	17:Be:123:GLU:HG3	2.00	0.43
17:Be:134:GLN:HA	17:Be:165:LEU:O	2.18	0.43
18:Bf:152:LEU:O	18:Bf:156:ARG:HG2	2.17	0.43
18:Bh:210:TYR:CE1	18:Bh:227:LEU:HD11	2.54	0.43
17:Ce:7:ILE:HD13	17:Ce:151:LEU:HD21	2.01	0.43
17:Ce:99:ASN:HA	17:Ce:142:GLY:H	1.83	0.43
17:Ce:424:GLN:O	17:Ce:428:ALA:HB2	2.19	0.43
17:Dc:272:PRO:HD3	17:Dc:364:SER:HA	2.00	0.43
18:Df:384:ILE:O	18:Df:387:ILE:HG12	2.18	0.43
17:Dg:175:VAL:H	17:Dg:205:GLU:CD	2.26	0.43
17:Dg:317:PHE:HB3	17:Dg:321:MET:SD	2.59	0.43
4:0K:174:LYS:NZ	18:Bf:393:HIS:CD2	2.87	0.43
7:0Q:65:MET:HE1	7:0Q:71:MET:HG3	1.99	0.43
7:0Q:458:MET:CE	7:0Q:489:TRP:HB3	2.48	0.43
7:0S:553:ALA:O	7:0S:561:PHE:HB2	2.17	0.43
12:0Y:139:TYR:HB3	12:0Y:151:LEU:HD13	2.00	0.43
12:0Z:8:VAL:HG11	12:0Z:329:ALA:HB1	2.01	0.43
12:1A:147:LEU:HD11	12:1A:163:VAL:HG13	2.01	0.43
13:1B:1151:ARG:HH22	13:1B:1279:ASP:HA	1.84	0.43
13:1C:1306:ARG:HB3	13:1C:1306:ARG:NH1	2.34	0.43
14:1F:818:MET:HG2	14:1F:858:ALA:HA	2.01	0.43
14:1G:818:MET:HE3	14:1G:821:PRO:HB2	2.00	0.43
17:1a:337:ASN:HB3	17:1a:340:TYR:HD2	1.83	0.43
17:1e:207:LEU:HD11	17:1e:229:ILE:HD11	2.00	0.43
18:1f:141:VAL:HG13	18:1f:190:SER:OG	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1g:374:ILE:H	17:1g:374:ILE:HG13	1.63	0.43
18:1h:192:HIS:ND1	18:1h:421:ALA:HA	2.34	0.43
18:2b:233:GLN:HG3	18:2b:368:LEU:HD12	2.00	0.43
18:2d:4:VAL:HG22	18:2d:133:GLN:HB2	2.00	0.43
18:2f:3:GLU:HA	18:2f:51:THR:HA	2.00	0.43
17:2g:6:HIS:HE2	17:2g:8:GLN:HG2	1.84	0.43
18:2h:79:ARG:HG3	18:2h:92:LEU:HD22	1.99	0.43
17:3a:174:LYS:HB3	17:3a:205:GLU:OE2	2.19	0.43
17:3a:208:TYR:CE1	17:3a:225:LEU:HD11	2.53	0.43
17:3c:230:SER:HA	17:3c:233:MET:HE3	2.01	0.43
18:3d:138:PHE:CD1	18:3d:169:PHE:HB2	2.53	0.43
18:3d:390:ARG:HA	18:3d:393:HIS:CD2	2.54	0.43
18:3f:227:LEU:O	18:3f:231:ILE:HG13	2.18	0.43
18:3h:192:HIS:ND1	18:3h:421:ALA:HA	2.32	0.43
18:3h:298:PRO:HB3	18:3h:307:PRO:HD2	2.00	0.43
17:4a:99:ASN:ND2	17:4a:141:GLY:HA2	2.34	0.43
17:4a:149:THR:HB	17:4a:191:GLN:HG3	2.01	0.43
18:4b:206:ASN:OD1	21:4b:501:GTP:N2	2.51	0.43
17:4c:317:PHE:HB3	17:4c:321:MET:HE1	2.00	0.43
18:5b:407:TRP:HZ2	17:5c:258:ILE:HD12	1.83	0.43
17:5c:21:TRP:HZ3	17:5c:50:TYR:HB3	1.84	0.43
17:5c:199:CYS:O	17:5c:200:MET:HE2	2.19	0.43
17:5e:101:TRP:HE3	17:5e:403:MET:HE1	1.84	0.43
17:5e:117:LEU:HB3	17:5e:121:ARG:NH1	2.34	0.43
18:5f:60:LYS:NZ	18:5f:61:HIS:O	2.51	0.43
18:5f:201:ALA:O	18:5f:267:PHE:HA	2.18	0.43
18:5f:241:SER:HA	18:5f:356:ASN:HD22	1.83	0.43
18:6d:15:GLN:HA	18:6d:18:ASN:HD22	1.84	0.43
18:6d:244:PHE:O	18:6d:356:ASN:ND2	2.47	0.43
17:6g:132:GLY:HA3	17:6g:163:MET:O	2.18	0.43
18:6h:28:HIS:CE1	18:6h:243:ARG:HD2	2.53	0.43
18:7b:145:THR:N	21:7b:501:GTP:O2G	2.35	0.43
18:7b:329:ASN:HA	18:7b:332:VAL:HG12	2.00	0.43
18:7d:298:PRO:HB3	18:7d:307:PRO:HD2	1.99	0.43
17:7e:31:ASP:OD2	17:7e:33:THR:OG1	2.26	0.43
17:7g:293:MET:HE2	17:7g:293:MET:HB2	1.81	0.43
17:7g:293:MET:SD	17:7g:367:PHE:HB2	2.57	0.43
18:8b:223:THR:O	18:8b:227:LEU:HG	2.18	0.43
18:8b:269:LEU:HB3	18:8b:301:MET:HE2	2.00	0.43
18:8f:4:VAL:HG22	18:8f:133:GLN:HB2	2.00	0.43
18:8h:216:SER:HB3	18:8h:275:ILE:O	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:9a:139:LEU:HG	17:9a:168:SER:HB3	2.00	0.43
18:9h:319:TYR:HB3	18:9h:323:VAL:HG21	2.00	0.43
18:Ad:172:TYR:CE2	18:Ad:203:MET:HE2	2.54	0.43
17:Ae:174:LYS:HB3	17:Ae:205:GLU:OE2	2.18	0.43
17:Ag:211:CYS:HA	17:Ag:215:LEU:HD12	2.00	0.43
18:Bb:175:PRO:HB3	18:Bb:390:ARG:CZ	2.48	0.43
17:Bc:273:LEU:O	17:Bc:292:GLN:NE2	2.51	0.43
17:Be:198:GLU:HG3	17:Be:266:PHE:CE2	2.45	0.43
17:Ca:73:MET:CE	17:Ca:92:PHE:HB3	2.48	0.43
18:Cf:234:VAL:HG21	18:Cf:302:MET:SD	2.59	0.43
17:Da:178:THR:OG1	17:Da:181:GLU:HG3	2.17	0.43
18:Dh:174:SER:HB2	18:Dh:177:VAL:O	2.18	0.43
1:0A:574:LEU:HB3	1:0A:605:TRP:CZ3	2.53	0.43
1:0B:524:ARG:HG3	1:0B:525:MET:SD	2.59	0.43
1:0B:604:LEU:HD23	1:0B:605:TRP:N	2.33	0.43
1:0D:538:PRO:HD2	1:0D:556:ASP:HB2	1.99	0.43
1:0D:560:VAL:HG22	1:0D:581:VAL:HG11	2.01	0.43
2:0H:55:LEU:HD11	2:0H:80:ARG:HB3	2.01	0.43
3:0I:135:MET:HB3	3:0I:142:ARG:HH22	1.84	0.43
3:0J:453:VAL:HB	3:0J:516:ARG:CG	2.48	0.43
6:0P:98:ARG:HD3	17:Dc:80:PRO:HA	2.00	0.43
7:0S:141:HIS:CE1	7:0S:188:GLY:H	2.35	0.43
7:0S:212:LEU:HB3	7:0S:224:VAL:CG2	2.48	0.43
12:0Z:195:GLU:O	12:0Z:198:ARG:HG2	2.18	0.43
13:1C:1303:PRO:HA	13:1C:1306:ARG:HG3	1.99	0.43
14:1D:925:ARG:O	14:1D:929:ARG:HG3	2.19	0.43
14:1F:504:ASN:O	14:1F:508:LEU:HG	2.18	0.43
14:1G:592:TYR:HA	14:1G:595:ARG:HD2	2.00	0.43
14:1G:601:ARG:HH22	14:1G:634:ARG:CB	2.31	0.43
17:1a:118:ASP:OD1	17:1a:121:ARG:NH2	2.52	0.43
18:1d:265:ILE:HG23	18:1d:432:PHE:HE1	1.83	0.43
18:1f:169:PHE:HZ	18:1f:238:LEU:HD13	1.84	0.43
17:2a:68:LEU:HG	17:2a:143:THR:OG1	2.18	0.43
17:2a:110:ALA:O	17:2a:113:ILE:HG22	2.17	0.43
17:2c:7:ILE:HD13	17:2c:151:LEU:HD21	2.01	0.43
17:2c:397:TRP:CZ2	18:2d:256:GLN:HB3	2.54	0.43
18:2d:165:SER:HB2	18:2d:256:GLN:HE22	1.82	0.43
17:2e:388:MET:O	17:2e:391:ARG:HG3	2.19	0.43
18:2h:9:ILE:HD11	18:2h:153:LEU:HD23	2.01	0.43
18:3b:303:VAL:O	18:3b:305:CYS:N	2.51	0.43
18:3d:312:TYR:HA	18:3d:381:SER:HB2	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:3e:276:ARG:HE	17:3e:276:ARG:HA	1.83	0.43
18:3f:138:PHE:CD1	18:3f:169:PHE:HB2	2.53	0.43
18:3f:255:PHE:O	18:3f:259:LEU:HB2	2.18	0.43
17:4c:21:TRP:CZ3	17:4c:50:TYR:HB3	2.53	0.43
18:4d:311:LYS:H	18:4d:382:THR:HG22	1.83	0.43
18:4d:313:MET:HG3	18:4d:381:SER:HA	2.00	0.43
17:4e:178:THR:OG1	17:4e:181:GLU:HG3	2.19	0.43
17:4e:293:MET:HG3	17:4e:367:PHE:HB2	2.00	0.43
18:5b:138:PHE:CD1	18:5b:169:PHE:HB2	2.54	0.43
18:5b:298:PRO:HA	18:5b:301:MET:HG2	2.00	0.43
18:5d:120:ASP:OD1	18:5d:124:LYS:HE2	2.18	0.43
17:5e:252:LYS:HE3	17:5e:252:LYS:HB2	1.68	0.43
17:5g:131:GLN:O	17:5g:163:MET:HB2	2.19	0.43
17:6c:68:LEU:HD23	17:6c:112:LEU:HD22	1.99	0.43
18:6d:324:VAL:HG13	18:6d:327:ASP:H	1.83	0.43
18:6f:210:TYR:CD1	18:6f:227:LEU:HD21	2.53	0.43
18:6h:5:ILE:HG13	18:6h:132:LEU:HD11	2.00	0.43
18:6h:386:GLU:O	18:6h:390:ARG:HG3	2.17	0.43
17:7a:253:LEU:O	17:7a:257:LEU:HB2	2.18	0.43
18:7d:203:MET:HE2	18:7d:203:MET:N	2.33	0.43
17:7g:397:TRP:CZ3	18:7h:257:THR:HG23	2.53	0.43
17:8a:138:SER:OG	20:8a:501:GDP:O2A	2.36	0.43
17:8a:273:LEU:H	17:8a:292:GLN:NE2	2.15	0.43
18:8b:227:LEU:O	18:8b:231:ILE:HG13	2.19	0.43
17:8c:238:CYS:SG	17:8c:318:ARG:NH1	2.91	0.43
17:8e:293:MET:HE1	17:8e:315:ALA:HB2	2.00	0.43
18:8f:222:PRO:HD2	17:8g:324:LYS:HG2	1.99	0.43
18:8f:372:GLN:HG3	18:8f:373:ARG:HG3	2.01	0.43
18:9d:321:GLY:HA3	18:9d:372:GLN:O	2.19	0.43
17:9e:50:TYR:CE2	17:9e:241:ARG:HD3	2.54	0.43
17:9g:5:VAL:HG23	17:9g:130:LEU:HD11	1.99	0.43
17:Aa:202:LEU:HD13	17:Aa:229:ILE:HG12	1.99	0.43
18:Ab:7:ILE:HG23	18:Ab:66:ILE:HG23	2.00	0.43
18:Ab:398:MET:HB3	18:Ab:403:ALA:HB3	1.99	0.43
17:Ac:139:LEU:HD12	17:Ac:170:VAL:HG22	2.01	0.43
17:Ac:167:PHE:CZ	17:Ac:233:MET:HG2	2.52	0.43
17:Ac:267:MET:HG2	17:Ac:369:GLY:O	2.19	0.43
18:Ad:21:TRP:CE3	18:Ad:24:TYR:HD2	2.37	0.43
18:Af:21:TRP:CE3	18:Af:24:TYR:HD2	2.36	0.43
17:Bc:136:CYS:HB3	17:Bc:233:MET:HE1	1.99	0.43
17:Be:418:LEU:HA	17:Be:421:GLU:HG2	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Cd:65:CYS:SG	18:Cd:66:ILE:N	2.92	0.43
17:Cg:32:PRO:O	17:Cg:83:GLN:NE2	2.51	0.43
17:Dc:238:CYS:SG	17:Dc:241:ARG:NH2	2.91	0.43
17:De:149:THR:HG21	17:De:188:SER:HA	2.00	0.43
18:Df:339:ARG:CZ	18:Df:339:ARG:HA	2.49	0.43
17:Dg:207:LEU:HD11	17:Dg:229:ILE:HD11	2.00	0.43
1:0A:377:HIS:HB3	1:0A:382:CYS:H	1.83	0.43
1:0B:139:LYS:NZ	1:0C:135:LEU:HD23	2.34	0.43
1:0D:207:MET:HE3	18:Ch:422:ARG:CZ	2.49	0.43
1:0D:542:SER:HB3	1:0D:553:VAL:HG12	2.00	0.43
5:0M:164:GLY:O	17:Ce:227:HIS:NE2	2.49	0.43
5:0N:613:GLY:HA3	18:1f:46:ASP:HB2	2.00	0.43
6:0P:172:ARG:HD3	17:Bc:78:SER:CB	2.49	0.43
7:0S:224:VAL:HG12	7:0S:231:VAL:HG22	1.99	0.43
7:0S:354:TRP:CD1	7:0S:361:LEU:HA	2.53	0.43
12:0Y:115:PRO:HB3	12:0Y:188:LEU:HD11	2.01	0.43
13:1B:1687:HIS:ND1	13:1B:1688:GLN:HG3	2.33	0.43
13:1C:1122:PRO:HD2	13:1C:1125:LEU:HD23	2.01	0.43
14:1D:910:PHE:HB3	14:1D:927:ALA:HB2	2.01	0.43
14:1F:566:THR:O	14:1F:592:TYR:OH	2.35	0.43
16:1M:99:UNK:HA	17:Bg:406:MET:CE	2.49	0.43
17:1a:7:ILE:HD13	17:1a:151:LEU:HD21	1.99	0.43
18:1d:260:VAL:HG13	18:1d:265:ILE:O	2.19	0.43
17:1e:203:ASP:OD2	17:1e:377:MET:HE1	2.19	0.43
18:1h:145:THR:N	21:1h:501:GTP:O2G	2.36	0.43
17:2a:89:ASN:ND2	17:2a:123:GLU:OE2	2.46	0.43
18:2b:115:VAL:O	18:2b:119:LEU:HD23	2.19	0.43
18:2b:227:LEU:O	18:2b:231:ILE:HG13	2.19	0.43
17:2c:260:PHE:HB2	17:2c:263:LEU:HD13	1.99	0.43
17:2e:203:ASP:OD2	17:2e:302:ALA:N	2.39	0.43
17:2e:252:LYS:HB2	17:2e:252:LYS:HE3	1.69	0.43
17:2g:375:GLN:NE2	17:2g:423:GLN:OE1	2.36	0.43
18:3d:206:ASN:OD1	21:3d:501:GTP:N2	2.51	0.43
17:3e:173:PRO:HB3	17:3e:380:ARG:NE	2.34	0.43
17:3e:228:LEU:HB3	17:3e:300:MET:CE	2.49	0.43
18:4b:316:CYS:HB3	18:4b:378:ILE:HG23	1.99	0.43
17:4g:139:LEU:HD12	17:4g:170:VAL:HG22	2.00	0.43
17:4g:377:MET:HG2	17:4g:380:ARG:NH2	2.34	0.43
18:5b:88:HIS:HB3	18:5b:91:GLN:HB2	2.00	0.43
18:5b:320:ARG:HB2	18:5b:374:ALA:HB3	1.99	0.43
17:5e:213:ARG:HH21	17:5e:297:LYS:HD2	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5g:86:ARG:HG2	17:5g:88:ASP:H	1.83	0.43
18:5h:360:PRO:HG3	18:5h:374:ALA:HB2	2.01	0.43
18:6d:2:ARG:HB3	18:6d:242:LEU:HD12	2.00	0.43
18:6f:89:PRO:HD3	18:7f:283:HIS:CE1	2.53	0.43
17:6g:139:LEU:HG	17:6g:168:SER:HB3	2.01	0.43
18:6h:311:LYS:H	18:6h:382:THR:HG22	1.83	0.43
18:7h:132:LEU:HB3	18:7h:164:LYS:HE2	1.99	0.43
17:8a:258:ILE:HD12	18:8h:407:TRP:HZ2	1.84	0.43
18:8b:14:ILE:HG23	18:8b:67:PHE:CE2	2.53	0.43
17:8c:12:CYS:SG	17:8c:138:SER:HB3	2.59	0.43
17:8c:67:ASP:OD1	17:8c:68:LEU:N	2.52	0.43
17:8g:334:GLN:HA	17:8g:341:PHE:CE2	2.53	0.43
18:8h:21:TRP:CZ3	18:8h:52:PHE:HB3	2.53	0.43
18:8h:104:ALA:HB2	18:8h:413:MET:SD	2.58	0.43
18:8h:342:GLN:NE2	18:8h:343:PHE:O	2.52	0.43
17:9c:177:ASP:O	18:9d:352:LYS:HA	2.18	0.43
17:9c:316:LEU:HB2	17:9c:366:THR:HG22	2.00	0.43
17:Aa:1:MET:HE3	17:Aa:1:MET:HB2	1.91	0.43
18:Af:102:ASN:ND2	18:Af:411:GLU:OE1	2.51	0.43
18:Bb:200:VAL:HG13	18:Bb:268:MET:HG3	2.00	0.43
18:Bd:210:TYR:CD1	18:Bd:222:PRO:HB2	2.53	0.43
18:Bd:259:LEU:HD21	18:Bd:316:CYS:HB2	2.00	0.43
18:Bf:205:ASP:OD2	18:Bf:303:VAL:HG13	2.19	0.43
18:Bh:267:PHE:HB2	18:Bh:384:ILE:HD12	2.01	0.43
17:Cc:272:PRO:HD3	17:Cc:364:SER:HA	2.00	0.43
17:Cc:284:LEU:HD23	17:Cc:362:LYS:HD3	2.00	0.43
18:Cd:252:ILE:HA	18:Cd:255:PHE:HD2	1.83	0.43
17:Ce:31:ASP:OD2	17:Ce:33:THR:OG1	2.31	0.43
17:Ce:72:THR:O	17:Ce:75:SER:OG	2.25	0.43
18:Cf:387:ILE:HG22	18:Cf:390:ARG:NH1	2.34	0.43
17:Da:252:LYS:HB2	17:Da:252:LYS:HE3	1.77	0.43
18:Db:293:ASN:O	18:Db:297:GLU:HG2	2.19	0.43
1:0B:426:ALA:HB3	1:0B:458:LEU:HD21	2.01	0.43
1:0B:574:LEU:HB3	1:0B:605:TRP:CZ3	2.54	0.43
1:0C:545:ASP:HB3	1:0C:548:GLY:HA3	2.01	0.43
1:0D:576:GLY:O	1:0D:603:ARG:NH1	2.52	0.43
3:0I:537:VAL:HG21	14:1G:953:GLU:HG2	2.01	0.43
5:0M:75:ASP:HB3	17:Ce:320:ARG:NH2	2.33	0.43
7:0Q:72:LEU:HG	7:0Q:84:ILE:O	2.18	0.43
7:0Q:354:TRP:CD1	7:0Q:361:LEU:HA	2.54	0.43
7:0S:506:PHE:HD1	7:0S:522:THR:HG22	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0S:521:VAL:HG12	7:0S:527:ILE:HG12	2.00	0.43
12:0Z:87:ILE:HB	12:0Z:239:LEU:HD13	2.01	0.43
13:1B:1313:VAL:O	13:1B:1410:PHE:HB2	2.19	0.43
13:1C:1721:ARG:HH11	13:1C:1723:PRO:HA	1.83	0.43
14:1E:815:ALA:O	14:1E:819:LEU:HG	2.19	0.43
14:1E:891:LEU:O	14:1E:895:GLU:HG2	2.18	0.43
17:1a:38:GLY:HA3	17:1a:43:GLN:OE1	2.19	0.43
17:1c:6:HIS:HE1	17:1c:233:MET:HE1	1.84	0.43
17:1c:397:TRP:CH2	18:1d:260:VAL:HB	2.40	0.43
17:1g:12:CYS:HB2	20:1g:501:GDP:C8	2.53	0.43
17:2a:381:VAL:HG12	17:2a:415:MET:HE1	2.00	0.43
17:2e:89:ASN:ND2	17:2e:123:GLU:OE2	2.46	0.43
17:2e:122:LYS:HE2	17:3e:291:GLN:NE2	2.34	0.43
17:3g:260:PHE:HB2	17:3g:263:LEU:HD13	2.01	0.43
17:3g:397:TRP:CZ2	18:3h:256:GLN:HB3	2.54	0.43
18:3h:4:VAL:HG22	18:3h:133:GLN:HB2	2.01	0.43
17:4a:397:TRP:O	17:4a:401:GLU:HG2	2.18	0.43
17:4e:391:ARG:HH22	18:4f:438:GLU:HA	1.84	0.43
18:4f:227:LEU:O	18:4f:231:ILE:HG13	2.19	0.43
17:5a:73:MET:HE1	17:5a:91:VAL:O	2.19	0.43
17:5c:208:TYR:CE1	17:5c:225:LEU:HD11	2.54	0.43
17:5e:6:HIS:HE1	17:5e:233:MET:HE1	1.82	0.43
17:5g:199:CYS:O	17:5g:200:MET:HE2	2.19	0.43
18:6b:259:LEU:HD21	18:6b:316:CYS:HB2	2.00	0.43
17:6c:208:TYR:CE1	17:6c:225:LEU:HD11	2.54	0.43
17:6c:247:ASN:C	17:6c:247:ASN:ND2	2.74	0.43
18:6h:1:MET:HA	18:6h:1:MET:HE2	2.00	0.43
17:7a:139:LEU:HG	17:7a:168:SER:HB3	2.01	0.43
18:7b:311:LYS:H	18:7b:382:THR:HG22	1.84	0.43
18:7d:399:TYR:O	18:7d:402:ARG:NH1	2.40	0.43
17:8a:315:ALA:CB	17:8a:330:MET:HE1	2.48	0.43
17:8e:294:TRP:CE2	17:8e:333:VAL:HG11	2.54	0.43
17:8g:5:VAL:HG23	17:8g:130:LEU:HD11	2.00	0.43
17:8g:203:ASP:OD2	17:8g:302:ALA:N	2.34	0.43
18:9h:21:TRP:CE3	18:9h:24:TYR:HD2	2.37	0.43
18:9h:250:VAL:HA	18:9h:254:GLU:OE1	2.19	0.43
17:Ae:275:SER:OG	17:Ae:278:SER:OG	2.36	0.43
18:Af:35:GLN:HA	18:Af:61:HIS:HD2	1.83	0.43
17:Ag:66:MET:SD	17:Ag:151:LEU:HD22	2.58	0.43
17:Ag:322:SER:HB3	17:Ag:325:GLU:HB2	2.01	0.43
17:Bc:388:MET:HE2	17:Bc:388:MET:HB3	1.78	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Bf:28:HIS:CE1	18:Bf:243:ARG:HD2	2.54	0.43
17:Bg:260:PHE:HB2	17:Bg:263:LEU:HD13	2.00	0.43
18:Bh:329:ASN:HA	18:Bh:332:VAL:HG12	2.01	0.43
18:Cb:144:GLY:N	21:Cb:501:GTP:O2G	2.52	0.43
17:Da:49:VAL:C	17:Da:62:ARG:HH12	2.27	0.43
18:Db:141:VAL:HG13	18:Db:187:SER:HA	2.00	0.43
18:Db:399:TYR:O	18:Db:402:ARG:NH1	2.42	0.43
17:De:200:MET:SD	17:De:266:PHE:HD2	2.41	0.43
18:Dh:1:MET:HE3	18:Dh:1:MET:O	2.18	0.43
18:Dh:79:ARG:HG3	18:Dh:92:LEU:HD22	2.01	0.43
1:0B:191:ILE:H	1:0B:191:ILE:HD12	1.84	0.43
1:0B:199:GLU:HA	1:0B:202:MET:HE2	2.01	0.43
2:0E:45:HIS:HE1	2:0E:47:ASP:OD2	2.01	0.43
2:0E:74:VAL:HG12	2:0E:107:LEU:HD21	2.01	0.43
2:0H:104:TRP:CD1	2:0H:127:VAL:HG12	2.54	0.43
3:0J:100:ARG:O	3:0J:104:MET:HG2	2.19	0.43
3:0J:440:HIS:HD2	14:1F:508:LEU:HD22	1.83	0.43
5:0M:380:VAL:HB	5:0M:383:ILE:HD11	2.00	0.43
5:0N:272:CYS:SG	5:0N:288:ARG:HD3	2.58	0.43
5:0N:380:VAL:HB	5:0N:383:ILE:HD11	1.99	0.43
6:0O:21:ARG:HB3	6:0O:25:ARG:HH22	1.84	0.43
12:0Y:186:GLU:O	12:0Y:190:GLN:OE1	2.37	0.43
12:0Z:100:THR:O	12:0Z:113:LEU:HB2	2.19	0.43
12:0Z:123:ARG:NH1	12:0Z:126:ASP:OD2	2.50	0.43
12:0Z:308:MET:HE1	12:0Z:332:VAL:HG21	2.00	0.43
12:0Z:354:TYR:HA	12:0Z:357:GLN:HB2	2.00	0.43
13:1B:1234:ILE:HG12	13:1B:1239:LEU:HD12	2.01	0.43
13:1B:1315:LEU:HD23	13:1B:1381:PRO:HG2	2.01	0.43
14:1E:907:ALA:HB1	14:1E:931:PHE:CE1	2.54	0.43
14:1F:1006:ARG:HD3	14:1F:1006:ARG:HA	1.85	0.43
16:1M:40:UNK:O	16:1M:42:UNK:N	2.52	0.43
17:1a:330:MET:HB3	17:1a:349:VAL:HG11	2.00	0.43
18:1h:79:ARG:NH1	18:1h:94:SER:OG	2.52	0.43
18:1h:101:ASN:HA	18:1h:144:GLY:H	1.83	0.43
18:1h:259:LEU:HD22	18:1h:268:MET:HE1	2.00	0.43
18:2d:390:ARG:HA	18:2d:393:HIS:CD2	2.54	0.43
17:2g:22:GLU:HG3	17:2g:81:TYR:CE1	2.53	0.43
17:2g:274:THR:HG22	17:2g:282:ARG:HD3	2.00	0.43
17:2g:397:TRP:CH2	18:2h:256:GLN:HB3	2.53	0.43
18:2h:201:ALA:O	18:2h:267:PHE:HA	2.19	0.43
18:3d:28:HIS:NE2	18:3d:243:ARG:HD2	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:4b:34:GLY:HA2	18:4b:86:LEU:HD13	2.00	0.43
18:4f:311:LYS:H	18:4f:382:THR:HG22	1.83	0.43
17:5a:139:LEU:HG	17:5a:168:SER:HB3	2.01	0.43
17:5c:21:TRP:CE3	17:5c:61:PRO:HB3	2.54	0.43
17:5c:272:PRO:HD3	17:5c:364:SER:HA	2.00	0.43
17:5e:60:VAL:HG11	17:5e:86:ARG:NH1	2.33	0.43
17:5e:330:MET:HB3	17:5e:349:VAL:HG21	2.00	0.43
17:5g:21:TRP:CE3	17:5g:61:PRO:HB3	2.54	0.43
17:6a:324:LYS:HB2	18:6h:210:TYR:CE1	2.54	0.43
17:6e:112:LEU:HD23	17:6e:147:MET:HE1	2.01	0.43
17:6g:266:PHE:CE1	17:6g:370:ASN:HB2	2.54	0.43
17:6g:406:MET:HE2	17:6g:406:MET:HB3	1.93	0.43
18:6h:8:HIS:ND1	18:6h:65:CYS:SG	2.90	0.43
18:6h:189:LEU:HD21	18:6h:413:MET:HE1	2.01	0.43
17:7c:321:MET:SD	17:7c:363:MET:HE3	2.58	0.43
17:7e:396:HIS:CD2	18:7f:263:PRO:HG3	2.54	0.43
17:8a:183:TYR:OH	17:8a:388:MET:HG3	2.19	0.43
17:8a:272:PRO:HD3	17:8a:364:SER:HA	2.01	0.43
18:8d:88:HIS:HB3	18:8d:91:GLN:HB2	2.01	0.43
18:8d:200:VAL:HG23	18:8d:256:GLN:HG3	1.99	0.43
17:8g:174:LYS:HA	17:8g:174:LYS:HD3	1.68	0.43
18:8h:185:TYR:CE1	18:8h:398:MET:HB2	2.54	0.43
17:9e:317:PHE:CD2	17:9e:321:MET:HE1	2.54	0.43
18:9f:403:ALA:HB2	17:9g:344:TRP:HZ3	1.84	0.43
18:9h:427:ALA:HA	18:9h:430:LYS:NZ	2.34	0.43
18:Ab:8:HIS:ND1	18:Ab:65:CYS:SG	2.91	0.43
18:Ad:27:GLU:OE2	18:Ad:320:ARG:NH2	2.39	0.43
18:Ad:88:HIS:HA	18:Bd:283:HIS:NE2	2.34	0.43
17:Ba:233:MET:O	17:Ba:236:ILE:HG22	2.18	0.43
18:Bb:386:GLU:O	18:Bb:390:ARG:HG3	2.19	0.43
17:Bc:186:THR:HG23	17:Bc:415:MET:HE2	2.01	0.43
18:Bd:26:LEU:HD12	18:Bd:363:VAL:HG22	1.99	0.43
17:Be:73:MET:CE	17:Be:92:PHE:HB3	2.46	0.43
17:Bg:97:ALA:O	17:Bg:99:ASN:N	2.51	0.43
17:Ca:117:LEU:HB3	17:Ca:121:ARG:HH12	1.83	0.43
18:Cb:174:SER:HB3	18:Cb:207:GLU:HB2	2.00	0.43
18:Cb:413:MET:HE3	18:Cb:417:GLU:HB2	2.00	0.43
17:Cc:99:ASN:HA	17:Cc:142:GLY:H	1.82	0.43
18:Cd:203:MET:C	18:Cd:204:LEU:HD12	2.44	0.43
17:Ce:238:CYS:SG	17:Ce:318:ARG:NH1	2.92	0.43
17:Ce:337:ASN:HB3	17:Ce:340:TYR:HD2	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ch:103:PHE:HD1	18:Ch:413:MET:HE1	1.83	0.43
18:Ch:324:VAL:HG13	18:Ch:327:ASP:H	1.84	0.43
17:Da:159:TYR:HB3	17:Da:162:ARG:HG3	2.00	0.43
17:Da:320:ARG:HA	17:Da:320:ARG:NH1	2.33	0.43
18:Db:28:HIS:CE1	18:Db:243:ARG:HD2	2.54	0.43
18:Db:319:TYR:HB3	18:Db:323:VAL:HG21	2.00	0.43
17:Dc:207:LEU:HA	17:Dc:210:ILE:HG22	2.00	0.43
18:Dd:177:VAL:CG2	17:De:327:ASP:HB3	2.49	0.43
18:Dh:399:TYR:O	18:Dh:402:ARG:NH1	2.44	0.43
1:0D:82:PHE:O	1:0D:86:MET:HG2	2.18	0.43
1:0D:188:GLU:HG2	1:0D:189:PRO:HD3	2.00	0.43
1:0D:324:GLY:HA3	1:0D:353:TRP:CH2	2.53	0.43
2:0E:68:VAL:HG12	2:0E:126:CYS:SG	2.59	0.43
3:0J:225:PHE:HZ	6:0P:162:ASP:HB3	1.84	0.43
5:0N:71:ARG:NH1	5:0N:75:ASP:OD2	2.52	0.43
7:0S:126:LYS:HE2	7:0S:128:TYR:HE2	1.83	0.43
7:0S:210:ALA:HA	7:0S:226:VAL:HB	1.99	0.43
12:1A:23:LYS:HA	12:1A:32:SER:O	2.18	0.43
13:1C:1445:ASP:OD1	13:1C:1445:ASP:N	2.51	0.43
14:1E:818:MET:O	14:1E:821:PRO:HD2	2.18	0.43
14:1G:966:LEU:HG	14:1G:974:ALA:HB1	2.00	0.43
17:1a:73:MET:HE1	17:1a:92:PHE:HB3	2.00	0.43
17:1a:252:LYS:HE3	17:1a:252:LYS:HB2	1.73	0.43
17:1c:417:ASP:O	17:1c:421:GLU:HG2	2.18	0.43
18:1d:9:ILE:HD11	18:1d:153:LEU:HD23	2.01	0.43
18:1d:174:SER:HB2	18:1d:177:VAL:O	2.18	0.43
17:1e:99:ASN:HA	17:1e:142:GLY:H	1.83	0.43
17:1e:213:ARG:NH2	17:1e:297:LYS:HD2	2.32	0.43
18:3b:105:ARG:HG2	18:3b:110:ILE:HD12	2.00	0.43
18:3d:16:VAL:HA	18:3d:228:ASN:HB3	2.01	0.43
17:3e:87:PRO:HG2	17:4e:278:SER:HB3	2.00	0.43
18:4f:7:ILE:HG23	18:4f:66:ILE:HG23	2.01	0.43
17:4g:49:VAL:C	17:4g:62:ARG:HH12	2.27	0.43
17:4g:217:LEU:HD23	17:4g:220:PRO:HB3	2.01	0.43
18:5d:51:THR:O	18:5d:64:ARG:HD2	2.18	0.43
17:5g:374:ILE:HG22	17:5g:378:PHE:CE2	2.53	0.43
18:6f:203:MET:SD	18:6f:387:ILE:HD11	2.59	0.43
18:6f:210:TYR:CG	17:6g:324:LYS:HD3	2.54	0.43
17:6g:170:VAL:HG21	17:6g:201:VAL:HG13	2.01	0.43
18:6h:21:TRP:HZ2	18:6h:65:CYS:HB2	1.83	0.43
18:6h:205:ASP:HB2	18:6h:303:VAL:HA	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:7a:199:CYS:C	17:7a:200:MET:HE2	2.43	0.43
17:7g:31:ASP:OD2	17:7g:33:THR:OG1	2.29	0.43
17:8c:274:THR:HG22	17:8c:282:ARG:HD3	2.01	0.43
17:8e:6:HIS:HE2	17:8e:8:GLN:HG2	1.83	0.43
18:8h:386:GLU:O	18:8h:390:ARG:HG3	2.19	0.43
17:9c:173:PRO:HB3	17:9c:380:ARG:CZ	2.48	0.43
17:9e:85:PHE:HB2	17:9e:90:PHE:CZ	2.54	0.43
18:9f:144:GLY:N	21:9f:501:GTP:O2G	2.52	0.43
18:9h:158:SER:HA	18:9h:166:LYS:HZ3	1.83	0.43
18:9h:386:GLU:O	18:9h:390:ARG:HG3	2.19	0.43
18:Ad:21:TRP:HZ2	18:Ad:65:CYS:HB2	1.83	0.43
18:Ad:138:PHE:CD1	18:Ad:169:PHE:HB2	2.53	0.43
18:Ad:194:LEU:O	18:Ad:198:THR:HG22	2.18	0.43
18:Ad:223:THR:OG1	17:Ae:245:GLN:OE1	2.37	0.43
18:Ad:251:ASP:HB2	18:Ad:254:GLU:OE1	2.19	0.43
18:Af:152:LEU:O	18:Af:156:ARG:HG2	2.18	0.43
17:Ag:67:ASP:CB	17:Ag:73:MET:HE3	2.49	0.43
17:Ag:177:ASP:O	18:Ah:352:LYS:HA	2.19	0.43
17:Bg:397:TRP:HZ2	18:Bh:260:VAL:HB	1.84	0.43
21:Cd:501:GTP:O1B	17:Ce:252:LYS:NZ	2.45	0.43
17:Cg:378:PHE:HD1	17:Cg:415:MET:HE3	1.84	0.43
18:Db:259:LEU:HD21	18:Db:316:CYS:HB2	2.00	0.43
17:De:219:THR:HA	18:Df:326:LYS:HZ3	1.84	0.43
16:1L:40:UNK:O	16:1L:42:UNK:N	2.52	0.43
1:0A:161:MET:HE2	17:Ba:424:GLN:CB	2.42	0.42
1:0D:561:LYS:HG2	1:0D:573:GLU:HG3	2.01	0.42
2:0H:128:GLN:HA	2:0H:128:GLN:OE1	2.19	0.42
3:0J:154:TRP:CZ3	17:Bc:392:LYS:HG3	2.54	0.42
3:0J:453:VAL:HB	3:0J:516:ARG:HG2	2.00	0.42
5:0M:191:GLN:NE2	18:Cf:29:GLY:HA2	2.34	0.42
6:0P:147:LEU:HD13	17:Cc:279:GLN:CB	2.49	0.42
7:0Q:516:VAL:HG21	7:0Q:533:ARG:HH21	1.84	0.42
8:0T:95:UNK:CB	18:Df:298:PRO:HD3	2.48	0.42
10:0V:120:UNK:O	17:3g:306:ARG:NH2	2.52	0.42
12:1A:247:ARG:O	12:1A:248:THR:OG1	2.37	0.42
13:1B:1536:PRO:HA	13:1B:1537:PRO:HD3	1.90	0.42
14:1D:518:LEU:HD12	14:1D:522:HIS:HE1	1.83	0.42
18:1b:298:PRO:HB3	18:1b:307:PRO:HD2	2.01	0.42
17:1c:170:VAL:HG11	17:1c:377:MET:SD	2.59	0.42
17:1e:238:CYS:SG	17:1e:318:ARG:NH1	2.92	0.42
17:1e:397:TRP:O	17:1e:401:GLU:HG2	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1g:164:MET:HB3	17:1g:197:ASP:H	1.84	0.42
18:1h:115:VAL:O	18:1h:119:LEU:HD23	2.19	0.42
17:2a:267:MET:SD	17:2a:305:PRO:HG3	2.58	0.42
17:2c:107:THR:OG1	17:2c:108:GLU:N	2.52	0.42
18:2d:88:HIS:HB3	18:2d:91:GLN:HB2	2.00	0.42
18:2f:210:TYR:CD1	18:2f:227:LEU:HD21	2.54	0.42
18:2f:241:SER:OG	18:2f:250:VAL:O	2.27	0.42
17:3e:207:LEU:HA	17:3e:210:ILE:HG22	2.01	0.42
18:4b:123:ARG:HA	18:4b:161:TYR:OH	2.18	0.42
18:4b:317:LEU:HB3	18:4b:319:TYR:CE1	2.54	0.42
17:4c:377:MET:HG2	17:4c:380:ARG:NH2	2.34	0.42
18:4d:4:VAL:HG11	18:4d:136:LEU:HG	2.01	0.42
18:4f:223:THR:O	18:4f:227:LEU:HG	2.19	0.42
17:4g:180:VAL:HG23	17:4g:184:ASN:HD21	1.83	0.42
18:4h:306:ASP:HB3	18:4h:309:HIS:ND1	2.33	0.42
17:5c:49:VAL:C	17:5c:62:ARG:HH12	2.26	0.42
17:5g:207:LEU:HD21	17:5g:300:MET:HE3	2.01	0.42
18:5h:223:THR:O	18:5h:227:LEU:HG	2.19	0.42
17:6a:99:ASN:HA	17:6a:142:GLY:H	1.84	0.42
17:6e:316:LEU:HB2	17:6e:366:THR:HG22	2.01	0.42
17:6g:397:TRP:CZ2	18:6h:256:GLN:HB3	2.54	0.42
17:7c:163:MET:HE2	17:7c:251:ARG:NH1	2.34	0.42
17:7g:99:ASN:HA	17:7g:142:GLY:N	2.34	0.42
18:8b:33:ASP:OD1	18:8b:34:GLY:N	2.53	0.42
18:8f:14:ILE:HG23	18:8f:67:PHE:CD2	2.54	0.42
18:8f:21:TRP:CE3	18:8f:24:TYR:HD2	2.37	0.42
17:9a:85:PHE:HB2	17:9a:90:PHE:CZ	2.54	0.42
17:9a:337:ASN:HB3	17:9a:340:TYR:HD2	1.84	0.42
18:9d:386:GLU:O	18:9d:390:ARG:HG3	2.19	0.42
17:9e:6:HIS:O	17:9e:63:ALA:HA	2.19	0.42
18:9f:21:TRP:CE3	18:9f:24:TYR:HD2	2.37	0.42
17:9g:273:LEU:H	17:9g:292:GLN:HE22	1.67	0.42
17:9g:316:LEU:HB2	17:9g:366:THR:HG22	2.01	0.42
17:9g:318:ARG:HB3	17:9g:357:PRO:HA	2.01	0.42
18:9h:91:GLN:NE2	18:9h:125:LEU:HD21	2.34	0.42
18:Ab:210:TYR:CD1	18:Ab:222:PRO:HB2	2.53	0.42
18:Ad:200:VAL:HG23	18:Ad:256:GLN:HG3	2.01	0.42
18:Ah:274:PRO:HG2	18:Ah:371:VAL:HG11	2.01	0.42
18:Bd:145:THR:N	21:Bd:501:GTP:O2G	2.36	0.42
18:Bd:210:TYR:CE1	18:Bd:227:LEU:HD11	2.54	0.42
18:Bf:49:PHE:O	18:Bf:53:PHE:N	2.41	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Bf:49:PHE:HB2	18:Bf:53:PHE:HB2	2.00	0.42
17:Bg:245:GLN:N	17:Bg:355:ASP:OD1	2.52	0.42
17:Bg:267:MET:HE3	17:Bg:371:SER:OG	2.19	0.42
18:Bh:7:ILE:HG21	18:Bh:153:LEU:HD21	2.01	0.42
18:Bh:105:ARG:HG2	18:Bh:110:ILE:HD12	2.00	0.42
18:Bh:217:LEU:HG	18:Bh:275:ILE:HG22	2.01	0.42
17:Cc:397:TRP:HZ2	18:Cd:260:VAL:HB	1.84	0.42
17:Cc:233:MET:O	17:Cc:236:ILE:HG22	2.19	0.42
17:Cg:282:ARG:NH1	17:Cg:284:LEU:HD23	2.31	0.42
17:Cg:337:ASN:HB3	17:Cg:340:TYR:HD2	1.83	0.42
18:Ch:174:SER:HB3	18:Ch:207:GLU:HB2	2.01	0.42
18:Db:21:TRP:CZ3	18:Db:52:PHE:HB3	2.54	0.42
17:Dc:293:MET:HE1	17:Dc:317:PHE:CZ	2.54	0.42
18:Dd:326:LYS:HG3	18:Dd:327:ASP:N	2.34	0.42
18:Df:270:SER:OG	18:Df:302:MET:HE3	2.19	0.42
18:Dh:202:VAL:C	18:Dh:203:MET:HE2	2.44	0.42
2:0G:94:ALA:HB1	17:Da:114:ASP:OD2	2.19	0.42
2:0G:97:SER:HA	2:0G:100:LYS:HE2	2.02	0.42
3:0J:135:MET:HE1	17:Bc:420:SER:OG	2.19	0.42
3:0J:424:PHE:HD1	3:0J:445:LEU:HB3	1.84	0.42
4:0K:149:VAL:HG12	17:Be:390:ARG:HG3	2.01	0.42
4:0K:181:LEU:HD22	18:Bf:176:GLN:HE21	1.84	0.42
7:0Q:122:PHE:C	7:0Q:124:ASP:H	2.26	0.42
7:0Q:476:HIS:O	7:0Q:488:LEU:HD12	2.19	0.42
7:0Q:523:LEU:C	7:0Q:525:ARG:H	2.27	0.42
7:0S:102:VAL:HG11	7:0S:122:PHE:HB2	2.00	0.42
7:0S:520:THR:OG1	7:0S:528:GLN:HB2	2.19	0.42
12:0Y:13:ARG:NH2	19:0Y:801:ADP:H1'	2.34	0.42
12:0Y:86:THR:HG22	12:0Y:238:ASN:HB2	2.00	0.42
12:1A:102:SER:HB2	12:1A:191:PHE:HZ	1.83	0.42
13:1B:1473:TRP:NE1	13:1B:1498:LEU:HB3	2.34	0.42
13:1B:1518:ASN:CG	13:1B:1524:LEU:HD12	2.44	0.42
13:1C:1223:PRO:HG3	13:1C:1232:ASP:OD2	2.19	0.42
14:1D:1029:LEU:HB2	14:1D:1045:GLU:HB3	2.01	0.42
15:1H:4:UNK:HA	17:4e:276:ARG:NE	2.35	0.42
17:1c:110:ALA:O	17:1c:113:ILE:HG22	2.19	0.42
18:1f:28:HIS:CE1	18:1f:243:ARG:HD2	2.54	0.42
18:1f:285:GLN:HG2	17:Dc:53:GLU:O	2.19	0.42
17:1g:102:ALA:HB1	17:1g:401:GLU:HB2	2.01	0.42
18:1h:298:PRO:HB3	18:1h:307:PRO:HD2	2.01	0.42
18:1h:377:MET:HE3	18:1h:377:MET:HB3	1.90	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1h:386:GLU:O	18:1h:390:ARG:HG3	2.19	0.42
18:2d:115:VAL:O	18:2d:119:LEU:HD23	2.19	0.42
17:2e:72:THR:O	17:2e:75:SER:OG	2.25	0.42
18:2h:202:VAL:HA	18:2h:268:MET:HB2	2.01	0.42
17:3a:318:ARG:HB3	17:3a:357:PRO:HA	2.00	0.42
17:3c:397:TRP:O	17:3c:401:GLU:HG2	2.19	0.42
18:3h:213:CYS:HA	18:3h:217:LEU:HD12	2.00	0.42
18:4b:198:THR:HG21	18:4b:201:ALA:HB2	2.01	0.42
17:4c:110:ALA:O	17:4c:113:ILE:HG22	2.19	0.42
17:4e:64:ILE:HG12	17:4e:119:VAL:HG12	2.00	0.42
18:4f:210:TYR:CD1	18:4f:227:LEU:HD21	2.54	0.42
18:5b:8:HIS:ND1	18:5b:65:CYS:SG	2.91	0.42
18:5b:210:TYR:CD1	18:5b:227:LEU:HD21	2.54	0.42
17:5c:102:ALA:HB1	17:5c:401:GLU:HB2	2.01	0.42
17:5e:228:LEU:HD23	17:5e:300:MET:HE2	2.01	0.42
18:5f:14:ILE:HD11	18:5f:69:ASP:HB2	2.01	0.42
18:5f:51:THR:O	18:5f:64:ARG:HD2	2.19	0.42
18:5f:276:ILE:HD12	18:5f:281:ALA:HA	2.02	0.42
17:6a:266:PHE:CE1	17:6a:370:ASN:HB2	2.54	0.42
18:6b:188:VAL:HG13	18:6b:425:LEU:HD22	2.01	0.42
18:6d:386:GLU:O	18:6d:390:ARG:HG3	2.18	0.42
18:6f:387:ILE:HG22	18:6f:390:ARG:NH1	2.35	0.42
18:7b:216:SER:HB3	18:7b:275:ILE:O	2.19	0.42
17:7c:267:MET:HE2	17:7c:305:PRO:HG3	2.00	0.42
18:7d:241:SER:HA	18:7d:356:ASN:HD22	1.84	0.42
17:7e:177:ASP:O	18:7f:352:LYS:HA	2.19	0.42
17:7e:294:TRP:CE2	17:7e:333:VAL:HG11	2.53	0.42
17:7e:313:ALA:O	17:7e:349:VAL:HA	2.19	0.42
17:7e:375:GLN:NE2	17:7e:423:GLN:OE1	2.34	0.42
18:7h:319:TYR:CZ	18:7h:328:VAL:HG23	2.54	0.42
18:7h:392:ASP:HB3	18:7h:422:ARG:NH2	2.34	0.42
17:8a:49:VAL:O	17:8a:62:ARG:NH1	2.51	0.42
17:8a:317:PHE:CE1	17:8a:330:MET:HE3	2.54	0.42
17:8c:167:PHE:CZ	17:8c:233:MET:HG2	2.55	0.42
18:8d:192:HIS:ND1	18:8d:424:ASP:OD2	2.49	0.42
18:8h:198:THR:HG21	18:8h:201:ALA:HB2	2.02	0.42
17:9a:184:ASN:OD1	17:9a:398:TYR:OH	2.30	0.42
17:9g:107:THR:OG1	17:9g:108:GLU:N	2.52	0.42
18:9h:167:LEU:HD11	18:9h:252:ILE:HD12	2.01	0.42
17:Aa:170:VAL:N	17:Aa:202:LEU:O	2.53	0.42
17:Ae:179:VAL:O	17:Ae:388:MET:HE1	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Af:306:ASP:HB3	18:Af:309:HIS:ND1	2.34	0.42
17:Ba:327:ASP:HB3	18:Bh:177:VAL:CG2	2.49	0.42
18:Bb:194:LEU:O	18:Bb:198:THR:HG22	2.19	0.42
17:Bc:170:VAL:HG21	17:Bc:201:VAL:HG13	2.01	0.42
18:Bd:216:SER:HB3	18:Bd:275:ILE:O	2.19	0.42
18:Bd:432:PHE:HA	18:Bd:435:VAL:HG22	2.01	0.42
17:Be:21:TRP:CE2	17:Be:63:ALA:HB2	2.54	0.42
17:Cc:232:VAL:HG21	17:Cc:300:MET:HE2	1.99	0.42
18:Cf:101:ASN:HA	18:Cf:144:GLY:H	1.84	0.42
18:Cf:104:ALA:HB2	18:Cf:413:MET:SD	2.59	0.42
18:Cf:265:ILE:HG21	18:Cf:313:MET:HE1	2.01	0.42
17:Cg:11:GLN:HG2	17:Cg:72:THR:CG2	2.49	0.42
17:Cg:112:LEU:HD23	17:Cg:147:MET:HE1	2.00	0.42
18:Ch:276:ILE:HG22	18:Ch:280:LYS:HE2	2.01	0.42
18:Db:259:LEU:HD22	18:Db:268:MET:HE1	2.01	0.42
18:Df:8:HIS:ND1	18:Df:65:CYS:SG	2.91	0.42
1:0B:375:ASP:OD2	1:0B:418:PHE:N	2.44	0.42
1:0C:317:SER:HA	1:0C:605:TRP:HA	2.01	0.42
1:0D:127:ASP:O	1:0D:131:LEU:HB2	2.19	0.42
1:0D:414:TRP:CZ3	2:0G:50:LYS:HE3	2.54	0.42
1:0D:518:VAL:HG21	1:0D:553:VAL:HG11	2.02	0.42
1:0D:522:ASP:HB3	1:0D:525:MET:HB3	2.00	0.42
2:0G:109:ALA:O	2:0G:113:ARG:HG3	2.19	0.42
3:0I:178:PRO:O	3:0I:182:THR:HG23	2.20	0.42
3:0I:512:GLU:HA	3:0I:529:LEU:N	2.32	0.42
3:0I:578:PRO:HA	3:0I:581:HIS:ND1	2.35	0.42
4:0K:202:PRO:HB2	18:Bf:308:ARG:HB3	2.00	0.42
5:0N:633:PRO:HA	5:0N:638:TYR:CG	2.54	0.42
7:0Q:144:GLU:HG3	7:0Q:147:LYS:HB2	2.01	0.42
7:0S:338:GLN:NE2	7:0S:381:ARG:HE	2.17	0.42
12:0X:170:ASN:ND2	12:0X:170:ASN:C	2.78	0.42
12:0Y:59:LEU:HD21	12:0Y:70:THR:HG21	2.01	0.42
12:0Y:68:TYR:OH	12:0Y:117:ALA:HA	2.19	0.42
12:0Z:5:ALA:HA	12:0Z:336:THR:HG23	2.02	0.42
12:1A:270:PHE:CZ	17:9e:261:PRO:HG3	2.55	0.42
13:1C:1164:ALA:C	13:1C:1168:MET:HG3	2.44	0.42
13:1C:1473:TRP:CH2	13:1C:1736:ARG:HB3	2.54	0.42
14:1D:433:ARG:HA	14:1D:433:ARG:HD2	1.89	0.42
18:1b:210:TYR:CD1	18:1b:227:LEU:HD21	2.53	0.42
17:1e:175:VAL:HG12	17:1e:205:GLU:OE2	2.18	0.42
18:1h:293:ASN:O	18:1h:297:GLU:HG2	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:2a:73:MET:CE	17:2a:92:PHE:HB3	2.49	0.42
17:2a:102:ALA:HB1	17:2a:401:GLU:HB2	2.01	0.42
18:2b:7:ILE:HG23	18:2b:66:ILE:HG23	2.02	0.42
18:2d:293:ASN:O	18:2d:297:GLU:HG2	2.19	0.42
18:2f:311:LYS:H	18:2f:382:THR:HG22	1.83	0.42
18:2f:316:CYS:HB3	18:2f:378:ILE:HG23	2.02	0.42
17:3c:268:VAL:HG12	17:3c:368:ILE:HG12	2.01	0.42
17:3g:87:PRO:HG2	17:4g:278:SER:HB3	2.01	0.42
17:3g:293:MET:CG	17:3g:367:PHE:HB2	2.50	0.42
17:4c:68:LEU:HG	17:4c:147:MET:HE3	2.00	0.42
18:4f:317:LEU:HB3	18:4f:319:TYR:CE1	2.54	0.42
18:4h:138:PHE:HE1	18:4h:169:PHE:HD2	1.67	0.42
17:5a:36:TYR:OH	17:5a:40:SER:N	2.41	0.42
17:5a:107:THR:OG1	17:5a:108:GLU:N	2.52	0.42
18:5f:216:SER:HB3	18:5f:275:ILE:O	2.19	0.42
17:5g:69:GLU:HA	17:5g:70:PRO:HD3	1.88	0.42
18:5h:138:PHE:CD1	18:5h:169:PHE:HB2	2.54	0.42
17:6a:327:ASP:HB3	18:6h:177:VAL:CG2	2.49	0.42
17:7c:67:ASP:CB	17:7c:73:MET:HE3	2.49	0.42
17:7e:186:THR:HG23	17:7e:415:MET:SD	2.60	0.42
18:7h:185:TYR:OH	18:7h:398:MET:HG3	2.20	0.42
18:7h:318:MET:HE1	18:7h:378:ILE:HG22	2.01	0.42
18:8b:175:PRO:HB3	18:8b:390:ARG:NE	2.34	0.42
18:8b:210:TYR:CE1	17:8c:324:LYS:HB2	2.54	0.42
18:8d:144:GLY:N	21:8d:501:GTP:O2G	2.52	0.42
18:8d:198:THR:HG21	18:8d:201:ALA:HB2	2.02	0.42
17:8e:274:THR:HG22	17:8e:282:ARG:HD3	2.01	0.42
18:8h:174:SER:HB2	18:8h:177:VAL:O	2.19	0.42
17:9c:232:VAL:HG21	17:9c:300:MET:HE1	2.01	0.42
17:9e:68:LEU:HB2	17:9e:96:GLY:HA2	2.01	0.42
18:9f:174:SER:HB3	18:9f:207:GLU:HB2	2.00	0.42
17:9g:391:ARG:HH21	18:9h:438:GLU:HA	1.84	0.42
17:Aa:54:ALA:HB1	17:Ba:280:GLN:O	2.19	0.42
17:Aa:379:LYS:O	17:Aa:383:GLU:OE1	2.38	0.42
17:Ag:316:LEU:HB2	17:Ag:366:THR:HG22	2.02	0.42
18:Bb:52:PHE:CZ	18:Bb:239:THR:HG21	2.53	0.42
18:Bb:101:ASN:HA	18:Bb:144:GLY:H	1.85	0.42
17:Bg:284:LEU:HD23	17:Bg:362:LYS:HE2	2.01	0.42
18:Bh:223:THR:O	18:Bh:227:LEU:HG	2.18	0.42
17:Ca:238:CYS:SG	17:Ca:241:ARG:NH2	2.92	0.42
18:Cb:210:TYR:CE1	17:Cc:324:LYS:HB2	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Cb:399:TYR:O	18:Cb:402:ARG:NH1	2.45	0.42
17:Ce:245:GLN:N	17:Ce:355:ASP:OD1	2.53	0.42
18:Cf:268:MET:HB3	18:Cf:378:ILE:HG13	2.00	0.42
18:Db:79:ARG:NH1	18:Db:94:SER:OG	2.51	0.42
17:Dc:260:PHE:HB2	17:Dc:263:LEU:HD13	2.00	0.42
18:Dd:16:VAL:HA	18:Dd:228:ASN:HB3	2.01	0.42
17:De:186:THR:HA	17:De:415:MET:HE1	2.00	0.42
17:Dg:293:MET:HG3	17:Dg:367:PHE:HB2	1.99	0.42
18:Dh:115:VAL:O	18:Dh:119:LEU:HD23	2.19	0.42
1:0A:191:ILE:H	1:0A:191:ILE:HD12	1.84	0.42
1:0B:584:VAL:HG23	1:0B:593:LEU:HD21	2.01	0.42
5:0N:70:ASP:OD2	5:0N:128:ARG:NH2	2.39	0.42
5:0N:391:VAL:HA	5:0N:394:VAL:HG22	2.00	0.42
6:0O:188:ILE:O	6:0O:189:THR:OG1	2.37	0.42
7:0Q:62:ALA:HB1	7:0Q:107:VAL:HG12	2.00	0.42
7:0Q:445:ARG:HA	7:0Q:456:ALA:O	2.20	0.42
13:1B:1120:GLY:HA2	13:1B:1614:ARG:NH2	2.33	0.42
13:1B:1445:ASP:OD1	13:1B:1445:ASP:N	2.51	0.42
14:1D:427:LYS:O	14:1D:431:ILE:HG12	2.19	0.42
14:1E:1023:SER:C	14:1E:1027:ARG:HH21	2.28	0.42
17:1a:20:PHE:CD1	17:1a:233:MET:HB2	2.54	0.42
17:1g:228:LEU:HB3	17:1g:300:MET:HE2	2.01	0.42
18:1h:65:CYS:SG	18:1h:66:ILE:N	2.93	0.42
17:2c:102:ALA:HB1	17:2c:401:GLU:HB2	2.01	0.42
18:2d:76:ASP:OD2	17:2e:46:ARG:NH2	2.52	0.42
18:2d:145:THR:OG1	21:2d:501:GTP:O3B	2.35	0.42
18:2f:324:VAL:HG13	18:2f:327:ASP:H	1.84	0.42
18:2f:398:MET:HE3	17:2g:346:PRO:HD2	2.02	0.42
17:2g:151:LEU:O	17:2g:155:ILE:HG13	2.20	0.42
17:2g:164:MET:HE2	17:2g:164:MET:HB2	1.86	0.42
18:3b:174:SER:HB2	18:3b:177:VAL:O	2.19	0.42
18:3b:179:THR:HG21	17:3c:246:LEU:HD21	2.02	0.42
18:3d:192:HIS:ND1	18:3d:421:ALA:HA	2.34	0.42
17:3g:293:MET:HG3	17:3g:367:PHE:HB2	2.02	0.42
18:4b:227:LEU:O	18:4b:231:ILE:HG13	2.20	0.42
18:4d:390:ARG:HA	18:4d:393:HIS:CD2	2.54	0.42
18:4f:210:TYR:CD1	18:4f:222:PRO:HB2	2.54	0.42
17:4g:391:ARG:NH2	18:4h:435:VAL:HA	2.34	0.42
18:4h:102:ASN:HB3	18:4h:105:ARG:HB2	2.00	0.42
17:5a:200:MET:HE1	17:5a:266:PHE:HD2	1.83	0.42
17:5a:322:SER:HB3	17:5a:325:GLU:HB2	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5a:324:LYS:HG2	18:5h:222:PRO:HD2	2.02	0.42
18:5d:60:LYS:HZ3	18:5d:62:VAL:HB	1.85	0.42
18:5f:76:ASP:OD2	17:5g:46:ARG:NH2	2.52	0.42
17:7c:60:VAL:HG21	17:7c:86:ARG:HH22	1.84	0.42
17:7e:159:TYR:HB3	17:7e:162:ARG:HG3	2.02	0.42
17:7g:252:LYS:HB2	17:7g:252:LYS:HE3	1.61	0.42
18:8b:319:TYR:HB3	18:8b:323:VAL:HG21	2.02	0.42
17:8c:362:LYS:HE3	17:8c:363:MET:HE3	2.01	0.42
17:8e:273:LEU:N	17:8e:292:GLN:HE22	2.17	0.42
18:8h:89:PRO:HB2	18:9h:280:LYS:NZ	2.35	0.42
17:9a:66:MET:HE3	17:9a:147:MET:HB3	2.01	0.42
20:9c:501:GDP:HO3'	20:9c:501:GDP:HO2'	1.50	0.42
18:9d:68:LEU:HD21	18:9d:149:LEU:CD2	2.49	0.42
18:9f:217:LEU:HD21	18:9f:368:LEU:HD23	2.00	0.42
17:9g:97:ALA:O	17:9g:99:ASN:N	2.50	0.42
18:Ab:4:VAL:HG22	18:Ab:133:GLN:HB2	2.00	0.42
17:Ac:391:ARG:NH1	18:Ad:438:GLU:O	2.52	0.42
17:Ag:49:VAL:O	17:Ag:62:ARG:NH1	2.53	0.42
18:Bb:28:HIS:CE1	18:Bb:243:ARG:HD2	2.54	0.42
18:Bb:177:VAL:HG21	17:Bc:327:ASP:HB3	2.01	0.42
17:Bc:164:MET:HB3	17:Bc:197:ASP:H	1.84	0.42
18:Bd:70:LEU:HA	18:Bd:95:GLY:HA3	2.00	0.42
18:Bd:132:LEU:HD12	18:Bd:132:LEU:HA	1.91	0.42
18:Bd:205:ASP:OD2	18:Bd:303:VAL:HG13	2.20	0.42
17:Be:260:PHE:HB2	17:Be:263:LEU:HD13	2.01	0.42
17:Bg:173:PRO:HB3	17:Bg:380:ARG:NE	2.33	0.42
17:Ca:253:LEU:HD11	17:Ca:316:LEU:HD21	2.01	0.42
18:Cd:115:VAL:O	18:Cd:119:LEU:HD23	2.19	0.42
18:Cd:324:VAL:HG13	18:Cd:327:ASP:H	1.83	0.42
17:Ce:178:THR:OG1	17:Ce:181:GLU:HG3	2.19	0.42
18:Cf:1:MET:HE3	18:Cf:1:MET:O	2.19	0.42
18:Cf:115:VAL:O	18:Cf:119:LEU:HD23	2.20	0.42
18:Cf:194:LEU:O	18:Cf:198:THR:HG22	2.19	0.42
17:Cg:373:ALA:O	17:Cg:376:GLU:HG2	2.19	0.42
17:Da:131:GLN:O	17:Da:163:MET:HB2	2.19	0.42
1:0B:355:MET:SD	1:0B:604:LEU:HD12	2.59	0.42
1:0C:127:ASP:O	1:0C:131:LEU:HB2	2.19	0.42
1:0C:393:LYS:HB3	1:0C:402:CYS:SG	2.60	0.42
1:0C:493:HIS:NE2	1:0C:511:SER:OG	2.44	0.42
1:0D:410:LYS:HB3	17:Da:406:MET:CE	2.49	0.42
2:0E:102:ASP:OD1	18:1h:309:HIS:NE2	2.39	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0G:44:LEU:HB3	2:0G:45:HIS:H	1.56	0.42
3:0I:517:PRO:HB2	3:0I:518:PRO:HD3	1.99	0.42
3:0I:568:VAL:O	3:0I:571:ASP:HB2	2.19	0.42
3:0J:104:MET:O	3:0J:108:MET:HG2	2.20	0.42
6:0P:16:LEU:HD23	6:0P:16:LEU:H	1.84	0.42
7:0Q:57:ASP:OD2	7:0Q:80:ASN:ND2	2.53	0.42
7:0S:22:ILE:HD12	7:0S:29:TYR:O	2.20	0.42
12:0Y:265:ASN:HB3	18:9h:409:VAL:HG13	2.00	0.42
12:0Y:270:PHE:CZ	17:9a:261:PRO:HG3	2.55	0.42
12:0Z:14:PRO:HD2	19:0Z:801:ADP:C6	2.55	0.42
13:1C:1265:VAL:O	13:1C:1291:THR:OG1	2.29	0.42
13:1C:1297:GLN:HB3	13:1C:1335:LEU:HD12	2.01	0.42
14:1E:594:LEU:HB3	14:1E:768:ALA:HB3	2.00	0.42
17:1a:1:MET:HE1	18:1h:96:LYS:HG2	2.01	0.42
18:1b:35:GLN:HA	18:1b:61:HIS:HD2	1.85	0.42
18:1d:88:HIS:CD2	18:2d:283:HIS:HB3	2.54	0.42
18:1d:88:HIS:HB3	18:1d:91:GLN:HB2	2.01	0.42
18:1d:115:VAL:O	18:1d:119:LEU:HD23	2.20	0.42
18:1d:132:LEU:HB3	18:1d:164:LYS:HE2	2.00	0.42
18:1d:319:TYR:HB3	18:1d:323:VAL:HG21	2.01	0.42
18:1d:390:ARG:HA	18:1d:393:HIS:CD2	2.55	0.42
17:2a:50:TYR:CE2	17:2a:241:ARG:HD3	2.55	0.42
17:2e:238:CYS:SG	17:2e:318:ARG:NH1	2.93	0.42
17:3c:72:THR:O	17:3c:75:SER:OG	2.28	0.42
18:3d:51:THR:O	18:3d:64:ARG:HD2	2.20	0.42
18:3d:318:MET:HE1	18:3d:378:ILE:HG22	2.00	0.42
17:3e:238:CYS:SG	17:3e:318:ARG:NH1	2.93	0.42
17:3g:320:ARG:HA	17:3g:320:ARG:CZ	2.50	0.42
18:3h:136:LEU:HD23	18:3h:167:LEU:HB2	2.02	0.42
18:3h:227:LEU:O	18:3h:231:ILE:HG13	2.19	0.42
17:4a:232:VAL:HG11	17:4a:268:VAL:HG21	2.00	0.42
17:4c:12:CYS:HB2	20:4c:501:GDP:C8	2.54	0.42
17:4c:64:ILE:HD11	17:4c:123:GLU:HG3	2.02	0.42
17:4c:174:LYS:NZ	18:4d:333:ALA:HB1	2.35	0.42
17:4c:208:TYR:CE1	17:4c:225:LEU:HD11	2.55	0.42
18:4f:52:PHE:CZ	18:4f:239:THR:HG21	2.55	0.42
17:4g:21:TRP:CZ3	17:4g:61:PRO:HB3	2.55	0.42
18:4h:265:ILE:HG21	18:4h:313:MET:HE1	2.02	0.42
17:5a:374:ILE:HG23	17:5a:377:MET:HE2	2.00	0.42
17:5a:385:PHE:CE2	17:5a:412:GLU:HB2	2.55	0.42
17:5c:73:MET:HE1	17:5c:91:VAL:O	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5e:273:LEU:O	17:5e:292:GLN:NE2	2.48	0.42
17:5e:377:MET:HG3	17:5e:380:ARG:NH2	2.34	0.42
18:5f:387:ILE:HG22	18:5f:390:ARG:NH1	2.34	0.42
17:5g:73:MET:HE1	17:5g:91:VAL:O	2.20	0.42
17:5g:132:GLY:HA3	17:5g:163:MET:O	2.20	0.42
17:6a:293:MET:CE	17:6a:367:PHE:HB2	2.46	0.42
18:6b:79:ARG:NH1	18:6b:94:SER:OG	2.52	0.42
18:6b:210:TYR:CG	17:6c:324:LYS:HD3	2.54	0.42
17:6c:415:MET:HB3	17:6c:415:MET:HE3	1.74	0.42
18:6d:16:VAL:HA	18:6d:228:ASN:HB3	2.01	0.42
17:6e:393:ALA:HB2	18:6f:346:TRP:CE3	2.55	0.42
18:6f:120:ASP:OD1	18:6f:124:LYS:HE2	2.19	0.42
18:6h:324:VAL:HG13	18:6h:327:ASP:H	1.85	0.42
17:7c:134:GLN:HA	17:7c:165:LEU:O	2.18	0.42
18:8b:217:LEU:HG	18:8b:275:ILE:HG22	2.02	0.42
18:8d:70:LEU:HA	18:8d:95:GLY:HA3	2.00	0.42
18:8d:319:TYR:CD2	18:8d:323:VAL:HG11	2.55	0.42
17:8e:12:CYS:SG	17:8e:138:SER:HB3	2.59	0.42
18:8h:255:PHE:O	18:8h:259:LEU:HB2	2.19	0.42
17:9a:10:GLY:HA2	17:9a:143:THR:HG23	2.00	0.42
17:9a:58:ARG:CZ	17:Aa:281:TYR:HE2	2.33	0.42
17:9g:69:GLU:HA	17:9g:70:PRO:HD3	1.93	0.42
17:9g:173:PRO:HB3	17:9g:380:ARG:CZ	2.50	0.42
18:Ab:210:TYR:CD1	18:Ab:227:LEU:HD21	2.55	0.42
17:Ac:55:THR:HG23	17:Bc:282:ARG:O	2.19	0.42
17:Ac:131:GLN:O	17:Ac:163:MET:HB2	2.18	0.42
17:Ac:278:SER:HA	17:Ac:281:TYR:HD2	1.85	0.42
18:Ad:181:VAL:O	18:Ad:398:MET:HE1	2.20	0.42
18:Af:285:GLN:CD	18:Af:285:GLN:H	2.27	0.42
18:Bb:201:ALA:O	18:Bb:267:PHE:HA	2.20	0.42
18:Bb:210:TYR:CE1	17:Bc:324:LYS:HB2	2.54	0.42
17:Bc:207:LEU:HA	17:Bc:210:ILE:HG22	2.02	0.42
18:Bd:177:VAL:CG2	17:Be:327:ASP:HB3	2.48	0.42
17:Be:140:GLY:HA2	17:Be:184:ASN:HB2	2.02	0.42
17:Be:337:ASN:HB3	17:Be:340:TYR:HD2	1.85	0.42
18:Bf:223:THR:O	18:Bf:227:LEU:HG	2.19	0.42
17:Bg:170:VAL:HG11	17:Bg:377:MET:SD	2.59	0.42
17:Cc:117:LEU:HB3	17:Cc:121:ARG:HH12	1.84	0.42
17:Cc:394:PHE:HB3	17:Cc:397:TRP:CZ3	2.55	0.42
18:Cd:145:THR:N	21:Cd:501:GTP:O2G	2.33	0.42
17:Ce:116:VAL:HG12	17:Ce:151:LEU:HD13	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Cg:64:ILE:HG12	17:Cg:119:VAL:HG12	2.01	0.42
18:Ch:165:SER:HB2	18:Ch:256:GLN:HE22	1.85	0.42
17:Da:207:LEU:HD13	17:Da:225:LEU:HB3	2.01	0.42
17:De:159:TYR:HB3	17:De:162:ARG:HG3	2.01	0.42
1:0B:165:ARG:NH1	18:Bd:401:LYS:O	2.53	0.42
2:0H:123:VAL:O	2:0H:127:VAL:HG13	2.20	0.42
3:0I:503:ALA:HB2	14:1G:541:PRO:HA	2.00	0.42
3:0I:576:ARG:CZ	3:0I:577:ARG:HA	2.50	0.42
12:0X:5:ALA:HA	12:0X:336:THR:HG23	2.02	0.42
12:0X:14:PRO:HD2	19:0X:801:ADP:C6	2.55	0.42
12:0X:139:TYR:HD1	12:0X:150:LEU:HD13	1.84	0.42
12:0X:289:GLN:NE2	17:9g:260:PHE:HB3	2.35	0.42
12:0Y:98:THR:O	12:0Y:103:GLY:HA2	2.19	0.42
12:0Z:247:ARG:HH11	18:9b:414:GLU:HB2	1.85	0.42
13:1B:1202:GLN:O	13:1B:1276:HIS:HB3	2.20	0.42
13:1C:1175:PHE:HB2	13:1C:1289:ALA:HB2	2.00	0.42
13:1C:1244:PRO:HD2	13:1C:1257:VAL:HG13	2.01	0.42
14:1E:983:ARG:HG2	14:1F:497:LYS:NZ	2.34	0.42
14:1E:988:ASP:O	14:1E:1018:LYS:NZ	2.52	0.42
17:1a:19:LYS:HD2	17:1a:227:HIS:CD2	2.55	0.42
17:1c:285:THR:HG23	17:1c:288:GLU:H	1.85	0.42
17:1e:202:LEU:HD13	17:1e:229:ILE:HG12	2.02	0.42
18:1h:198:THR:HG21	18:1h:201:ALA:HB2	2.02	0.42
18:1h:269:LEU:HD22	18:1h:303:VAL:HB	2.01	0.42
17:2e:110:ALA:O	17:2e:113:ILE:HG22	2.19	0.42
17:3a:344:TRP:HZ3	18:3h:403:ALA:HB2	1.84	0.42
18:4b:210:TYR:HD1	18:4b:222:PRO:HB2	1.85	0.42
17:4g:27:GLU:OE2	17:4g:318:ARG:NH2	2.50	0.42
17:4g:140:GLY:HA2	17:4g:184:ASN:HB2	2.01	0.42
18:5b:28:HIS:CE1	18:5b:243:ARG:HD2	2.54	0.42
17:5c:268:VAL:HA	17:5c:367:PHE:O	2.19	0.42
17:5c:326:VAL:HG13	17:5c:330:MET:HE3	2.00	0.42
18:5d:107:HIS:HB3	18:5d:108:TYR:CD1	2.55	0.42
17:5e:98:GLY:HA2	18:5f:254:GLU:HG2	2.00	0.42
17:6a:262:ARG:NH2	17:6a:414:ASN:OD1	2.41	0.42
18:6b:16:VAL:HA	18:6b:228:ASN:HB3	2.01	0.42
18:6b:115:VAL:O	18:6b:119:LEU:HD23	2.20	0.42
18:6b:210:TYR:CZ	18:6b:227:LEU:HD11	2.55	0.42
17:6c:175:VAL:H	17:6c:205:GLU:CD	2.27	0.42
17:6c:293:MET:CE	17:6c:367:PHE:HB2	2.50	0.42
18:6d:115:VAL:O	18:6d:119:LEU:HD23	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:6e:72:THR:O	17:6e:75:SER:OG	2.32	0.42
18:6f:174:SER:HB2	18:6f:177:VAL:O	2.19	0.42
17:6g:50:TYR:CE2	17:6g:241:ARG:HD3	2.55	0.42
18:6h:422:ARG:HH12	18:6h:426:ALA:HB2	1.84	0.42
17:7a:183:TYR:OH	17:7a:388:MET:HG2	2.19	0.42
18:7d:16:VAL:HA	18:7d:228:ASN:HB3	2.00	0.42
18:7d:318:MET:HE1	18:7d:378:ILE:CG2	2.49	0.42
17:7e:87:PRO:HG2	17:8e:278:SER:HB3	2.00	0.42
18:7f:312:TYR:HA	18:7f:381:SER:HB2	2.01	0.42
18:7h:268:MET:HE3	18:7h:378:ILE:HG12	2.02	0.42
17:8a:417:ASP:O	17:8a:421:GLU:HG2	2.19	0.42
18:8b:413:MET:HG3	18:8b:417:GLU:HG3	2.01	0.42
18:8d:21:TRP:CZ3	18:8d:52:PHE:HB3	2.55	0.42
18:8f:317:LEU:HB3	18:8f:319:TYR:HE1	1.84	0.42
17:8g:233:MET:O	17:8g:236:ILE:HG22	2.19	0.42
18:8h:321:GLY:HA3	18:8h:372:GLN:O	2.19	0.42
18:9d:136:LEU:HD23	18:9d:167:LEU:HB2	2.02	0.42
17:9g:94:GLN:HA	17:9g:94:GLN:OE1	2.20	0.42
18:Ad:174:SER:HB3	18:Ad:207:GLU:HB2	2.02	0.42
17:Ag:397:TRP:CH2	18:Ah:257:THR:HA	2.55	0.42
18:Bb:79:ARG:HG3	18:Bb:92:LEU:HD22	2.01	0.42
17:Bc:391:ARG:HD3	18:Bd:346:TRP:CG	2.53	0.42
18:Bf:102:ASN:HB3	18:Bf:105:ARG:HB2	2.02	0.42
18:Bf:121:ARG:O	18:Bf:121:ARG:HD3	2.19	0.42
18:Cb:306:ASP:HB3	18:Cb:309:HIS:ND1	2.35	0.42
17:Cc:267:MET:SD	17:Cc:305:PRO:HG3	2.59	0.42
18:Cf:70:LEU:HD21	18:Cf:149:LEU:HD22	2.01	0.42
17:Cg:313:ALA:O	17:Cg:349:VAL:HA	2.20	0.42
18:Ch:201:ALA:O	18:Ch:267:PHE:HA	2.19	0.42
17:De:316:LEU:HB2	17:De:366:THR:HG22	2.02	0.42
17:Dg:101:TRP:HE3	17:Dg:403:MET:HE1	1.85	0.42
18:Dh:250:VAL:HB	18:Dh:318:MET:HE1	2.02	0.42
1:0A:161:MET:HE3	17:Ba:425:TYR:CE2	2.54	0.42
1:0A:327:LEU:HD12	1:0A:327:LEU:HA	1.78	0.42
1:0B:129:ALA:HA	1:0B:132:ARG:HG2	2.02	0.42
1:0D:329:VAL:HB	1:0D:596:CYS:HB2	2.01	0.42
2:0H:55:LEU:HD23	2:0H:77:ILE:HG12	2.02	0.42
3:0I:212:ARG:NH2	17:Cg:299:MET:HB2	2.33	0.42
3:0J:419:GLY:HA2	13:1B:1352:TRP:NE1	2.35	0.42
5:0M:63:ALA:HB2	5:0M:128:ARG:HB3	2.02	0.42
7:0S:353:VAL:HB	7:0S:363:CYS:SG	2.60	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0U:4:UNK:CB	18:5b:298:PRO:HD2	2.49	0.42
10:0V:132:UNK:C	18:3h:338:LYS:HD3	2.49	0.42
12:0X:260:GLU:O	12:0X:264:ILE:HG12	2.20	0.42
12:0X:276:ASN:HB3	12:0X:280:ARG:HH21	1.84	0.42
13:1B:1448:ALA:HA	13:1B:1451:LEU:HD13	2.01	0.42
13:1B:1751:VAL:HG13	13:1B:1756:ARG:HG2	2.01	0.42
14:1F:1035:VAL:HG12	14:1F:1037:GLN:HG3	2.01	0.42
14:1F:1048:ALA:HA	14:1F:1051:ARG:NH1	2.34	0.42
17:1c:252:LYS:HE3	17:1c:252:LYS:HB2	1.68	0.42
18:1f:198:THR:HG21	18:1f:201:ALA:HB2	2.02	0.42
18:1f:250:VAL:HG21	18:1f:318:MET:HE1	2.02	0.42
17:1g:68:LEU:HG	17:1g:147:MET:HE2	2.01	0.42
17:2a:294:TRP:CE2	17:2a:333:VAL:HG11	2.54	0.42
17:2a:375:GLN:HE22	17:2a:423:GLN:CD	2.26	0.42
17:2c:139:LEU:HG	17:2c:168:SER:HB3	2.00	0.42
18:2d:15:GLN:HA	18:2d:18:ASN:HD22	1.85	0.42
17:2e:147:MET:HE2	17:2e:147:MET:HB2	1.95	0.42
18:2f:121:ARG:O	18:2f:121:ARG:HD3	2.20	0.42
18:2f:179:THR:HG21	17:2g:246:LEU:HD21	2.01	0.42
17:3a:317:PHE:CD2	17:3a:321:MET:HE1	2.54	0.42
18:3b:413:MET:HG3	18:3b:417:GLU:HG3	2.01	0.42
17:3e:293:MET:HE1	17:3e:317:PHE:CZ	2.54	0.42
18:3f:139:ASN:OD1	18:3f:170:THR:HG22	2.19	0.42
17:3g:208:TYR:CE1	17:3g:225:LEU:HD11	2.54	0.42
17:3g:278:SER:HA	17:3g:281:TYR:HD1	1.83	0.42
18:4d:139:ASN:OD1	18:4d:170:THR:HG22	2.20	0.42
17:4g:174:LYS:NZ	18:4h:333:ALA:HB1	2.34	0.42
17:5a:205:GLU:HA	17:5a:208:TYR:HD1	1.85	0.42
18:5b:145:THR:OG1	21:5b:501:GTP:O3B	2.32	0.42
17:5c:207:LEU:HD11	17:5c:229:ILE:HD11	2.02	0.42
18:5d:107:HIS:ND1	18:5d:151:SER:OG	2.53	0.42
18:5d:390:ARG:HA	18:5d:393:HIS:CD2	2.55	0.42
17:5e:229:ILE:O	17:5e:233:MET:HG3	2.19	0.42
17:5g:257:LEU:O	17:5g:259:PRO:HD3	2.20	0.42
17:5g:397:TRP:CH2	18:5h:256:GLN:HB3	2.54	0.42
17:6e:6:HIS:O	17:6e:63:ALA:HA	2.19	0.42
17:6e:294:TRP:HE1	17:6e:330:MET:HE1	1.85	0.42
18:6h:360:PRO:HG3	18:6h:374:ALA:HB2	2.02	0.42
18:7b:138:PHE:CE2	18:7b:235:ILE:HD13	2.54	0.42
18:7b:316:CYS:SG	18:7b:318:MET:HE3	2.60	0.42
17:7c:394:PHE:CD1	18:7d:261:PRO:HA	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:7d:15:GLN:HB3	18:7d:228:ASN:ND2	2.35	0.42
17:7e:141:GLY:HA3	20:7e:501:GDP:O2A	2.19	0.42
17:7e:290:THR:HG21	17:7e:329:GLN:HB3	2.00	0.42
17:8a:66:MET:HG2	17:8a:147:MET:HE2	2.02	0.42
17:8a:67:ASP:O	17:8a:92:PHE:HA	2.20	0.42
17:8a:317:PHE:HE1	17:8a:330:MET:HE3	1.84	0.42
17:8c:201:VAL:HG11	17:8c:377:MET:HE2	2.02	0.42
18:9b:216:SER:HB3	18:9b:275:ILE:O	2.20	0.42
17:9e:317:PHE:HB3	17:9e:321:MET:SD	2.60	0.42
18:9f:216:SER:HB3	18:9f:275:ILE:O	2.20	0.42
18:9h:188:VAL:HG13	18:9h:425:LEU:HD13	2.01	0.42
18:9h:217:LEU:HD21	18:9h:368:LEU:HD23	2.02	0.42
18:Ab:227:LEU:O	18:Ab:231:ILE:HG13	2.20	0.42
17:Ac:163:MET:HE3	17:Ac:164:MET:N	2.35	0.42
17:Ae:397:TRP:O	17:Ae:401:GLU:HG2	2.19	0.42
18:Ah:217:LEU:HD21	18:Ah:368:LEU:HD23	2.02	0.42
17:Bc:72:THR:O	17:Bc:75:SER:OG	2.26	0.42
17:Bc:73:MET:SD	17:Bc:92:PHE:HD2	2.42	0.42
17:Bc:174:LYS:HB2	17:Bc:205:GLU:OE2	2.20	0.42
17:Be:49:VAL:O	17:Be:62:ARG:NH1	2.53	0.42
17:Ca:10:GLY:O	17:Ca:14:ASN:ND2	2.52	0.42
17:Cc:91:VAL:HG12	17:Cc:112:LEU:HD12	2.02	0.42
17:Dg:139:LEU:HA	17:Dg:145:SER:OG	2.20	0.42
18:Dh:198:THR:HG21	18:Dh:201:ALA:HB2	2.01	0.42
1:0A:507:THR:HG23	1:0A:524:ARG:HH22	1.84	0.42
1:0B:377:HIS:HB3	1:0B:382:CYS:H	1.85	0.42
1:0B:399:LYS:HZ3	1:0B:401:ARG:HB2	1.85	0.42
1:0D:493:HIS:CE1	1:0D:519:LYS:HB2	2.55	0.42
2:0F:62:LYS:N	2:0F:67:ASP:OD2	2.53	0.42
3:0J:270:LEU:HD13	3:0J:319:LEU:HG	2.01	0.42
4:0L:109:VAL:O	4:0L:113:LEU:HG	2.20	0.42
4:0L:121:ALA:O	4:0L:124:GLU:HG3	2.19	0.42
5:0M:640:PRO:O	5:0M:644:THR:HG23	2.19	0.42
5:0N:193:VAL:HB	5:0N:196:LEU:HD12	2.02	0.42
6:0O:194:LYS:HA	6:0O:194:LYS:HD3	1.86	0.42
7:0Q:100:HIS:ND1	7:0Q:120:SER:HB2	2.34	0.42
7:0Q:102:VAL:HG11	7:0Q:122:PHE:HD2	1.84	0.42
7:0Q:506:PHE:CD1	7:0Q:522:THR:HG22	2.55	0.42
12:0X:12:THR:OG1	12:0X:60:GLU:O	2.37	0.42
12:0Z:88:PHE:HA	12:0Z:240:VAL:O	2.19	0.42
12:1A:68:TYR:OH	12:1A:117:ALA:HA	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1B:1140:ARG:HD3	13:1B:1477:ARG:NH1	2.35	0.42
13:1B:1515:VAL:HG12	13:1B:1595:VAL:HG22	2.02	0.42
13:1B:1701:LEU:HD23	13:1B:1701:LEU:HA	1.88	0.42
14:1D:849:ARG:NE	14:1D:868:PHE:HA	2.35	0.42
14:1F:761:LEU:O	14:1F:764:PRO:HD2	2.20	0.42
14:1G:814:ALA:HA	14:1G:817:ALA:HB3	2.02	0.42
17:1a:233:MET:O	17:1a:236:ILE:HG22	2.20	0.42
18:1b:311:LYS:H	18:1b:382:THR:CG2	2.32	0.42
17:2a:139:LEU:HG	17:2a:168:SER:HB3	2.01	0.42
18:2b:30:ILE:HA	18:2b:36:MET:HB3	2.01	0.42
18:2b:121:ARG:O	18:2b:121:ARG:HD3	2.20	0.42
18:2d:326:LYS:NZ	18:2d:327:ASP:OD1	2.52	0.42
17:2g:89:ASN:ND2	17:2g:123:GLU:OE2	2.47	0.42
18:3b:269:LEU:HD22	18:3b:303:VAL:HB	2.02	0.42
18:3d:179:THR:HG21	17:3e:246:LEU:HD21	2.02	0.42
18:3h:21:TRP:CE3	18:3h:24:TYR:HD2	2.38	0.42
17:4a:86:ARG:NH2	17:4a:123:GLU:OE2	2.53	0.42
17:4a:174:LYS:HB3	17:4a:205:GLU:OE2	2.19	0.42
18:4b:30:ILE:HA	18:4b:36:MET:HB3	2.02	0.42
17:4c:98:GLY:O	18:4d:257:THR:OG1	2.27	0.42
18:4h:324:VAL:HG13	18:4h:327:ASP:H	1.84	0.42
17:5a:38:GLY:HA3	17:5a:43:GLN:OE1	2.20	0.42
18:5b:210:TYR:CE1	17:5c:324:LYS:HB2	2.54	0.42
17:5c:229:ILE:HG22	17:5c:233:MET:HE3	2.01	0.42
17:5c:296:ALA:HB2	17:5c:306:ARG:CZ	2.50	0.42
18:5d:203:MET:HE3	18:5d:267:PHE:HD1	1.84	0.42
18:5f:33:ASP:OD1	18:5f:34:GLY:N	2.53	0.42
18:5f:288:VAL:HB	18:5f:327:ASP:HB3	2.01	0.42
17:5g:375:GLN:NE2	17:5g:423:GLN:OE1	2.39	0.42
18:5h:51:THR:O	18:5h:64:ARG:HD2	2.20	0.42
17:6c:167:PHE:CE1	17:6c:233:MET:HG2	2.55	0.42
17:6e:110:ALA:O	17:6e:113:ILE:HG22	2.19	0.42
18:6f:251:ASP:HB2	18:6f:254:GLU:CD	2.45	0.42
17:7a:377:MET:HE2	17:7a:377:MET:HB3	1.90	0.42
18:7b:79:ARG:NH1	18:7b:94:SER:OG	2.53	0.42
18:7b:217:LEU:HD21	18:7b:368:LEU:HD23	2.01	0.42
18:7d:79:ARG:NH1	18:7d:94:SER:OG	2.52	0.42
18:7d:384:ILE:O	18:7d:387:ILE:HG12	2.19	0.42
17:8a:46:ARG:HH21	18:8h:73:THR:HA	1.85	0.42
17:8c:263:LEU:HD23	17:8c:422:TYR:CE1	2.55	0.42
17:8e:145:SER:HB3	17:8e:188:SER:OG	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:8f:7:ILE:HG23	18:8f:66:ILE:HG23	2.02	0.42
18:8f:227:LEU:O	18:8f:231:ILE:HG13	2.19	0.42
18:8f:288:VAL:HG13	18:8f:319:TYR:HE2	1.83	0.42
18:8f:407:TRP:HZ2	17:8g:258:ILE:HD12	1.84	0.42
17:9a:99:ASN:HA	17:9a:142:GLY:H	1.84	0.42
17:9a:403:MET:HE3	17:9a:408:PHE:CE1	2.55	0.42
17:9c:67:ASP:HB3	17:9c:73:MET:HE2	2.02	0.42
18:9d:8:HIS:CD2	18:9d:138:PHE:HD2	2.37	0.42
18:9d:65:CYS:SG	18:9d:66:ILE:N	2.93	0.42
18:9f:210:TYR:CE1	18:9f:227:LEU:HD11	2.55	0.42
18:9h:104:ALA:HB2	18:9h:413:MET:SD	2.59	0.42
17:Aa:139:LEU:HA	17:Aa:145:SER:OG	2.20	0.42
18:Ad:205:ASP:OD2	18:Ad:303:VAL:HG13	2.20	0.42
18:Ad:210:TYR:CE1	18:Ad:227:LEU:HD11	2.55	0.42
17:Ag:73:MET:SD	17:Ag:92:PHE:HB3	2.60	0.42
17:Ba:170:VAL:CG2	17:Ba:201:VAL:HG13	2.50	0.42
17:Ba:286:VAL:HB	17:Ba:325:GLU:OE2	2.19	0.42
17:Ba:377:MET:HE3	17:Ba:377:MET:HB2	1.60	0.42
18:Bb:227:LEU:O	18:Bb:231:ILE:HG13	2.20	0.42
18:Cd:89:PRO:HD3	18:Dd:283:HIS:CE1	2.54	0.42
17:Ce:375:GLN:NE2	17:Ce:423:GLN:HB2	2.35	0.42
17:Da:189:VAL:HB	17:Da:415:MET:CE	2.42	0.42
17:Dc:73:MET:HA	17:Dc:76:VAL:HB	2.02	0.42
1:0B:129:ALA:HB1	1:0B:133:ARG:CZ	2.49	0.42
1:0C:133:ARG:HG3	1:0C:134:GLU:N	2.35	0.42
1:0C:396:ASP:HB2	1:0C:403:VAL:CG2	2.49	0.42
1:0D:205:LYS:HE2	1:0D:205:LYS:HB3	1.91	0.42
2:0G:146:THR:HG22	2:0G:149:LYS:HE3	2.02	0.42
3:0J:467:HIS:CD2	14:1F:915:SER:HB2	2.54	0.42
4:0K:84:THR:HA	4:0K:87:ILE:HG12	2.01	0.42
4:0L:79:ASP:O	4:0L:83:LEU:HG	2.20	0.42
7:0Q:224:VAL:HG12	7:0Q:231:VAL:HG22	2.01	0.42
7:0Q:388:TRP:CD1	7:0Q:394:ARG:HH11	2.37	0.42
7:0Q:388:TRP:CG	7:0Q:394:ARG:HH11	2.38	0.42
7:0Q:609:ASP:OD1	7:0Q:610:GLY:N	2.52	0.42
7:0S:283:VAL:HG12	7:0S:318:LEU:HD11	2.02	0.42
12:0Z:138:SER:OG	12:0Z:217:THR:OG1	2.36	0.42
12:1A:8:VAL:HG11	12:1A:329:ALA:HB1	2.00	0.42
13:1C:1390:GLU:HG2	13:1C:1402:VAL:HG22	2.01	0.42
14:1D:965:ALA:HB1	14:1D:970:ARG:HG3	2.02	0.42
14:1F:1020:MET:HB2	14:1F:1021:PRO:HD3	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1d:265:ILE:HG21	18:1d:313:MET:HE1	2.02	0.42
17:1e:55:THR:HG23	17:2e:282:ARG:O	2.19	0.42
17:1e:397:TRP:CH2	18:1f:260:VAL:O	2.73	0.42
17:1g:252:LYS:HE3	17:1g:252:LYS:HB2	1.73	0.42
17:1g:397:TRP:HZ2	18:1h:260:VAL:HB	1.85	0.42
17:2a:316:LEU:HB2	17:2a:366:THR:HG22	2.02	0.42
18:2b:390:ARG:HA	18:2b:393:HIS:CD2	2.55	0.42
17:2e:152:ILE:HG12	17:2e:164:MET:CE	2.50	0.42
17:3a:324:LYS:HB2	18:3h:210:TYR:CE1	2.54	0.42
18:3b:203:MET:HE3	18:3b:267:PHE:HD1	1.85	0.42
17:3g:12:CYS:SG	17:3g:138:SER:HB3	2.60	0.42
18:3h:253:THR:HA	18:3h:256:GLN:OE1	2.20	0.42
18:4f:133:GLN:O	18:4f:165:SER:OG	2.38	0.42
17:4g:207:LEU:HD13	17:4g:225:LEU:HB3	2.02	0.42
18:5d:271:SER:OG	18:5d:377:MET:HB3	2.20	0.42
18:5f:27:GLU:OE2	18:5f:320:ARG:NH2	2.35	0.42
18:5h:21:TRP:CE3	18:5h:24:TYR:HD2	2.37	0.42
17:6a:69:GLU:HA	17:6a:70:PRO:HD3	1.89	0.42
18:6d:210:TYR:CG	17:6e:324:LYS:HD3	2.55	0.42
17:6e:253:LEU:O	17:6e:257:LEU:HB2	2.20	0.42
18:7b:265:ILE:HG22	18:7b:380:ASN:HD21	1.85	0.42
17:7c:173:PRO:HB3	17:7c:380:ARG:CZ	2.50	0.42
17:7c:208:TYR:CE1	17:7c:225:LEU:HD11	2.54	0.42
18:7d:360:PRO:HG3	18:7d:374:ALA:HB2	2.02	0.42
17:7e:198:GLU:HG2	17:7e:200:MET:HE3	2.01	0.42
18:8b:200:VAL:HG13	18:8b:268:MET:HG3	2.02	0.42
18:8b:222:PRO:HD2	17:8c:324:LYS:HG2	2.02	0.42
17:8c:112:LEU:HB3	17:8c:147:MET:HE1	2.02	0.42
17:8c:272:PRO:HD3	17:8c:364:SER:HA	2.01	0.42
17:8e:263:LEU:HD23	17:8e:422:TYR:CE1	2.54	0.42
18:8f:115:VAL:O	18:8f:119:LEU:HD23	2.20	0.42
18:8f:175:PRO:HB3	18:8f:390:ARG:NE	2.35	0.42
18:8f:244:PHE:O	18:8f:356:ASN:ND2	2.48	0.42
17:8g:273:LEU:H	17:8g:292:GLN:NE2	2.18	0.42
18:9b:217:LEU:HG	18:9b:275:ILE:HG22	2.01	0.42
17:9c:69:GLU:HA	17:9c:70:PRO:HD3	1.92	0.42
17:9e:64:ILE:HD13	17:9e:120:VAL:HG22	2.01	0.42
17:9e:380:ARG:O	17:9e:384:GLN:HG3	2.19	0.42
17:9g:21:TRP:CZ3	17:9g:61:PRO:HB3	2.55	0.42
17:9g:86:ARG:CZ	17:Ag:281:TYR:HB3	2.49	0.42
18:9h:141:VAL:HG23	18:9h:170:THR:HB	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ac:397:TRP:CZ2	18:Ad:256:GLN:HB3	2.55	0.42
17:Ae:73:MET:SD	17:Ae:92:PHE:HB3	2.60	0.42
17:Ae:174:LYS:N	17:Ae:205:GLU:OE1	2.47	0.42
17:Ba:200:MET:CE	17:Ba:268:VAL:HG13	2.50	0.42
18:Bd:296:PHE:CD1	18:Bd:377:MET:HE2	2.54	0.42
18:Bf:293:ASN:O	18:Bf:297:GLU:HG2	2.20	0.42
17:Bg:252:LYS:HB2	17:Bg:252:LYS:HE3	1.73	0.42
17:Bg:420:SER:O	17:Bg:424:GLN:HG3	2.19	0.42
18:Bh:293:ASN:O	18:Bh:297:GLU:HG2	2.20	0.42
17:Ca:66:MET:HE2	17:Ca:66:MET:HB3	1.97	0.42
18:Cb:270:SER:N	18:Cb:301:MET:HE1	2.34	0.42
17:Cc:64:ILE:HD13	17:Cc:120:VAL:HG22	2.00	0.42
17:Ce:12:CYS:SG	17:Ce:138:SER:HB3	2.60	0.42
18:Dd:28:HIS:CE1	18:Dd:243:ARG:HH11	2.38	0.42
18:Dd:339:ARG:NE	18:Dd:339:ARG:HA	2.35	0.42
17:De:304:ASP:HA	17:De:305:PRO:HD3	1.94	0.42
17:Dg:73:MET:HB3	17:Dg:77:ARG:NH1	2.35	0.42
18:Dh:316:CYS:HB3	18:Dh:378:ILE:HG23	2.02	0.42
1:0A:332:LEU:HB3	1:0A:341:LEU:HD11	2.02	0.42
1:0D:485:LEU:HD13	18:Dh:402:ARG:HB2	2.01	0.42
1:0D:582:GLN:N	1:0D:597:GLY:HA2	2.28	0.42
3:0I:451:ALA:HA	13:1C:1382:LEU:O	2.19	0.42
5:0M:628:ILE:HD12	5:0M:628:ILE:H	1.85	0.42
5:0N:412:LEU:HD12	5:0N:412:LEU:HA	1.89	0.42
6:0P:194:LYS:HA	6:0P:194:LYS:HD3	1.88	0.42
12:0X:7:LYS:HB2	12:0X:307:VAL:HG22	2.02	0.42
12:0Z:101:MET:HE1	12:0Z:239:LEU:HD12	2.00	0.42
12:0Z:221:GLU:HB3	12:0Z:233:VAL:HG22	2.00	0.42
12:1A:139:TYR:HD1	12:1A:216:PHE:CD1	2.38	0.42
13:1B:1170:PRO:HG3	13:1B:1284:ARG:HD2	2.01	0.42
13:1C:1202:GLN:O	13:1C:1276:HIS:HB3	2.20	0.42
13:1C:1769:TRP:HB2	14:1D:522:HIS:CD2	2.54	0.42
14:1D:851:LEU:HA	14:1D:854:GLN:OE1	2.20	0.42
14:1D:966:LEU:HD12	14:1D:995:ILE:HD13	2.02	0.42
14:1D:1016:ALA:HB2	14:1D:1028:LEU:HD11	2.01	0.42
14:1E:972:GLU:HB3	14:1E:976:LYS:NZ	2.35	0.42
14:1F:400:ARG:NH1	14:1F:403:LEU:O	2.53	0.42
14:1G:1022:GLU:OE1	14:1G:1022:GLU:N	2.53	0.42
17:1a:64:ILE:HG12	17:1a:119:VAL:HG12	2.01	0.42
17:1a:289:LEU:HD13	17:1a:363:MET:HE3	2.01	0.42
17:1a:293:MET:HG3	17:1a:367:PHE:HB2	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1e:139:LEU:HA	17:1e:145:SER:OG	2.20	0.42
17:1g:54:ALA:HB1	17:2g:280:GLN:O	2.19	0.42
17:1g:175:VAL:H	17:1g:205:GLU:CD	2.28	0.42
18:1h:223:THR:OG1	18:1h:224:TYR:N	2.53	0.42
17:2a:178:THR:OG1	17:2a:181:GLU:HG3	2.20	0.42
17:2c:202:LEU:HD13	17:2c:229:ILE:HG12	2.01	0.42
18:2d:241:SER:HA	18:2d:356:ASN:HD22	1.85	0.42
18:2d:251:ASP:H	18:2d:254:GLU:CG	2.33	0.42
18:2f:250:VAL:HB	18:2f:318:MET:HE1	2.01	0.42
17:2g:62:ARG:HG3	17:2g:123:GLU:OE1	2.20	0.42
18:2h:224:TYR:HD1	18:2h:227:LEU:HD12	1.85	0.42
18:3b:203:MET:C	18:3b:204:LEU:HD12	2.45	0.42
18:3d:210:TYR:CE1	17:3e:324:LYS:HB2	2.55	0.42
18:3h:203:MET:HE3	18:3h:267:PHE:HD1	1.84	0.42
17:4a:170:VAL:HG21	17:4a:201:VAL:HG13	2.02	0.42
17:4a:233:MET:O	17:4a:236:ILE:HG22	2.20	0.42
17:4a:270:PHE:O	17:4a:273:LEU:HG	2.20	0.42
18:4h:329:ASN:HA	18:4h:332:VAL:HG12	2.01	0.42
17:5a:170:VAL:HG11	17:5a:377:MET:SD	2.60	0.42
18:5b:70:LEU:HA	18:5b:95:GLY:HA3	2.01	0.42
18:5d:212:ILE:HD12	18:5d:302:MET:HG2	2.02	0.42
17:5e:21:TRP:CZ3	17:5e:50:TYR:HB3	2.55	0.42
18:5h:132:LEU:HD12	18:5h:132:LEU:HA	1.87	0.42
18:5h:250:VAL:HA	18:5h:254:GLU:OE2	2.20	0.42
18:6b:390:ARG:HA	18:6b:393:HIS:CD2	2.55	0.42
18:6d:12:ALA:HB2	21:6d:501:GTP:C8	2.55	0.42
17:6g:98:GLY:HA2	18:6h:254:GLU:HG3	2.02	0.42
17:6g:252:LYS:HB2	17:6g:252:LYS:HE3	1.67	0.42
18:6h:210:TYR:CD1	18:6h:227:LEU:HD21	2.55	0.42
18:6h:392:ASP:HB3	18:6h:422:ARG:NH2	2.35	0.42
17:7a:172:SER:HB2	17:7a:205:GLU:HG2	2.01	0.42
17:7a:257:LEU:O	17:7a:259:PRO:HD3	2.20	0.42
18:7b:179:THR:HG21	17:7c:246:LEU:HD21	2.01	0.42
17:7c:109:GLY:O	17:7c:113:ILE:HB	2.20	0.42
18:7d:311:LYS:H	18:7d:382:THR:HG22	1.85	0.42
18:7f:9:ILE:HD11	18:7f:153:LEU:HD23	2.01	0.42
17:8e:81:TYR:HD2	17:8e:84:ILE:HD13	1.85	0.42
18:8f:313:MET:HE2	18:8f:313:MET:HB3	1.88	0.42
18:8f:386:GLU:O	18:8f:390:ARG:HG3	2.20	0.42
18:9b:210:TYR:CE1	18:9b:227:LEU:HD11	2.54	0.42
17:9c:247:ASN:C	17:9c:247:ASN:ND2	2.73	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9d:54:SER:HB3	18:9d:64:ARG:NH2	2.35	0.42
18:9d:185:TYR:O	18:9d:189:LEU:HD23	2.20	0.42
18:9f:88:HIS:CE1	18:9f:90:GLU:HB2	2.55	0.42
18:9f:234:VAL:HG13	18:9f:376:CYS:SG	2.60	0.42
18:9f:248:LEU:HB2	18:9f:355:ILE:H	1.85	0.42
18:Ab:9:ILE:HD13	18:Ab:150:GLY:HA2	2.01	0.42
18:Ad:294:ALA:O	18:Ad:297:GLU:HG3	2.20	0.42
17:Ae:337:ASN:HB3	17:Ae:340:TYR:HD2	1.85	0.42
18:Af:223:THR:O	18:Af:227:LEU:HG	2.20	0.42
18:Af:296:PHE:HZ	18:Af:351:PHE:HE1	1.68	0.42
17:Ag:394:PHE:HB3	17:Ag:397:TRP:HZ3	1.84	0.42
18:Bd:113:GLU:HG2	18:Bd:114:ILE:N	2.35	0.42
17:Be:406:MET:O	17:Be:409:THR:OG1	2.35	0.42
17:Bg:308:GLY:HA2	17:Bg:426:GLN:OE1	2.19	0.42
18:Cb:259:LEU:HD22	18:Cb:268:MET:HE1	2.01	0.42
18:Cd:200:VAL:HG23	18:Cd:256:GLN:HG3	2.01	0.42
18:Cd:216:SER:HB3	18:Cd:275:ILE:O	2.19	0.42
17:Ce:110:ALA:O	17:Ce:113:ILE:HG22	2.20	0.42
18:Ch:8:HIS:ND1	18:Ch:65:CYS:SG	2.92	0.42
18:Ch:251:ASP:HB2	18:Ch:254:GLU:HG3	2.01	0.42
17:Da:246:LEU:HD21	18:Dh:179:THR:HG21	2.01	0.42
18:Dd:384:ILE:O	18:Dd:387:ILE:HG12	2.20	0.42
17:De:73:MET:HE1	17:De:91:VAL:O	2.20	0.42
17:Dg:10:GLY:HA2	17:Dg:143:THR:HG23	2.02	0.42
1:0A:418:PHE:HE1	1:0A:439:LEU:HD11	1.85	0.41
1:0A:433:THR:HG21	1:0A:449:ARG:HH11	1.85	0.41
1:0A:582:GLN:HG2	1:0A:597:GLY:HA2	2.02	0.41
1:0B:344:ALA:HB2	1:0B:374:VAL:HG23	2.02	0.41
1:0C:324:GLY:HA3	1:0C:353:TRP:CH2	2.55	0.41
1:0D:214:LYS:HD3	1:0D:214:LYS:HA	1.89	0.41
2:0G:74:VAL:HG13	2:0G:141:LEU:HD11	2.01	0.41
3:0I:453:VAL:CG2	3:0I:516:ARG:HD3	2.49	0.41
3:0J:93:THR:O	3:0J:97:THR:HG23	2.20	0.41
3:0J:192:ARG:HA	3:0J:192:ARG:HD3	1.83	0.41
5:0N:218:MET:O	5:0N:222:LEU:HG	2.20	0.41
6:0P:135:ARG:HG2	6:0P:135:ARG:NH1	2.35	0.41
7:0S:464:ARG:HB3	7:0S:482:GLU:OE1	2.20	0.41
9:0U:163:UNK:O	17:5a:336:LYS:HD3	2.20	0.41
12:0Y:266:ARG:HD3	18:9h:406:HIS:O	2.20	0.41
12:0Y:322:THR:O	12:0Y:326:LEU:HD23	2.19	0.41
13:1C:1239:LEU:O	13:1C:1261:PHE:HA	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1a:208:TYR:CE1	17:1a:225:LEU:HD11	2.55	0.41
17:1a:226:ASN:OD1	20:1a:501:GDP:N1	2.41	0.41
17:1a:273:LEU:N	17:1a:292:GLN:HE22	2.17	0.41
17:1c:113:ILE:O	17:1c:117:LEU:HD23	2.20	0.41
17:1g:64:ILE:HD11	17:1g:123:GLU:HG3	2.02	0.41
17:1g:394:PHE:HD1	17:1g:397:TRP:HZ3	1.68	0.41
18:2b:145:THR:N	21:2b:501:GTP:O2G	2.33	0.41
18:2b:202:VAL:C	18:2b:203:MET:HE2	2.45	0.41
17:2c:21:TRP:CZ3	17:2c:61:PRO:HB3	2.55	0.41
18:2h:181:VAL:O	18:2h:398:MET:HE1	2.20	0.41
18:2h:392:ASP:HB3	18:2h:422:ARG:NH2	2.35	0.41
18:3b:88:HIS:HB3	18:3b:91:GLN:HB2	2.01	0.41
18:3f:105:ARG:HG2	18:3f:110:ILE:HD12	2.01	0.41
17:4a:21:TRP:CZ3	17:4a:50:TYR:HB3	2.55	0.41
17:4a:268:VAL:HG12	17:4a:367:PHE:O	2.19	0.41
17:4e:31:ASP:OD2	17:4e:33:THR:OG1	2.33	0.41
18:4h:298:PRO:HB3	18:4h:307:PRO:HD2	2.02	0.41
17:5a:293:MET:HE1	17:5a:315:ALA:HB1	2.01	0.41
18:5d:223:THR:O	18:5d:227:LEU:HG	2.20	0.41
18:5h:8:HIS:ND1	18:5h:65:CYS:SG	2.94	0.41
18:6b:210:TYR:CE1	17:6c:324:LYS:HB2	2.54	0.41
18:6h:120:ASP:OD1	18:6h:124:LYS:HE2	2.20	0.41
17:7a:330:MET:HE1	17:7a:351:SER:CB	2.43	0.41
18:7b:319:TYR:HB3	18:7b:323:VAL:HG21	2.02	0.41
17:7c:7:ILE:HD13	17:7c:151:LEU:HD21	2.02	0.41
18:7d:205:ASP:HB2	18:7d:303:VAL:HA	2.02	0.41
17:7e:107:THR:OG1	17:7e:108:GLU:N	2.53	0.41
17:8c:179:VAL:HG22	18:8d:351:PHE:N	2.35	0.41
18:8d:115:VAL:O	18:8d:119:LEU:HD23	2.20	0.41
17:8e:151:LEU:O	17:8e:155:ILE:HG13	2.20	0.41
17:9a:273:LEU:HD23	17:9a:273:LEU:HA	1.87	0.41
17:9e:69:GLU:HA	17:9e:70:PRO:HD3	1.91	0.41
18:9h:133:GLN:HG3	18:9h:242:LEU:HD11	2.02	0.41
18:9h:145:THR:OG1	21:9h:501:GTP:O3B	2.25	0.41
17:Aa:380:ARG:O	17:Aa:384:GLN:HG3	2.19	0.41
17:Aa:397:TRP:O	17:Aa:401:GLU:HG2	2.20	0.41
18:Ad:216:SER:HB3	18:Ad:275:ILE:O	2.20	0.41
17:Ae:208:TYR:CD1	18:Af:326:LYS:HE3	2.55	0.41
18:Bb:141:VAL:HG11	18:Bb:172:TYR:CE2	2.55	0.41
17:Be:375:GLN:HE22	17:Be:423:GLN:CD	2.24	0.41
18:Bf:70:LEU:HD12	18:Bf:99:ALA:HB2	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Bg:163:MET:HE3	17:Bg:251:ARG:HA	2.01	0.41
18:Bh:214:ARG:HA	18:Bh:219:ILE:O	2.19	0.41
17:Ca:304:ASP:HA	17:Ca:305:PRO:HD3	1.85	0.41
18:Cb:313:MET:HG3	18:Cb:381:SER:HA	2.01	0.41
17:Cc:232:VAL:CG2	17:Cc:270:PHE:HB2	2.49	0.41
17:Cg:260:PHE:HB2	17:Cg:263:LEU:HD13	2.01	0.41
18:Ch:115:VAL:O	18:Ch:119:LEU:HD23	2.19	0.41
18:Db:329:ASN:HA	18:Db:332:VAL:HG12	2.02	0.41
18:Dd:203:MET:C	18:Dd:204:LEU:HD12	2.45	0.41
18:Dd:313:MET:HG2	18:Dd:346:TRP:CH2	2.55	0.41
1:0B:101:GLU:O	1:0B:105:THR:HG23	2.20	0.41
1:0D:396:ASP:HB2	1:0D:403:VAL:CG2	2.50	0.41
2:0G:62:LYS:C	2:0G:62:LYS:HD2	2.45	0.41
3:0I:212:ARG:HD2	17:Cg:209:ASP:CB	2.50	0.41
3:0J:265:LEU:HD21	3:0J:330:LEU:HD22	2.03	0.41
3:0J:311:ARG:O	3:0J:311:ARG:HG2	2.20	0.41
3:0J:552:LEU:O	3:0J:556:GLU:HG3	2.20	0.41
4:0K:150:PHE:HA	4:0K:153:ILE:HG22	2.02	0.41
5:0M:176:ALA:HB1	5:0M:713:GLN:NE2	2.35	0.41
5:0M:292:ASN:HA	5:0M:296:SER:HB3	2.02	0.41
6:0P:32:LYS:HE3	6:0P:48:GLU:HG3	2.02	0.41
7:0S:60:ILE:HA	7:0S:74:THR:O	2.20	0.41
7:0S:72:LEU:HD13	7:0S:116:LEU:HD11	2.01	0.41
7:0S:524:ASP:HB3	7:0S:526:LYS:HE2	2.02	0.41
10:0V:14:UNK:HA	18:2b:96:LYS:HD2	2.02	0.41
12:0Y:258:LEU:O	12:0Y:262:GLN:HG2	2.20	0.41
12:0Y:319:ASN:O	12:0Y:323:LEU:HD23	2.19	0.41
13:1B:1136:ASN:ND2	13:1B:1478:GLY:HA3	2.35	0.41
18:1b:217:LEU:HB3	18:1b:367:ASP:OD2	2.20	0.41
18:1f:221:ARG:HB3	17:1g:322:SER:HB2	2.01	0.41
17:1g:394:PHE:HD1	17:1g:397:TRP:CZ3	2.38	0.41
18:1h:185:TYR:HE1	18:1h:398:MET:HB2	1.86	0.41
17:2c:12:CYS:HB2	20:2c:501:GDP:C8	2.54	0.41
18:2d:250:VAL:HG22	18:2d:352:LYS:HE3	2.01	0.41
18:2f:203:MET:HE3	18:2f:267:PHE:HD1	1.84	0.41
18:2f:298:PRO:HB3	18:2f:307:PRO:HD2	2.02	0.41
17:2g:73:MET:HA	17:2g:76:VAL:HB	2.02	0.41
17:3a:73:MET:CE	17:3a:92:PHE:HB3	2.50	0.41
17:3a:377:MET:HE3	17:3a:377:MET:HB2	1.88	0.41
18:3b:73:THR:HA	17:3c:46:ARG:HH21	1.85	0.41
18:3f:210:TYR:CE1	17:3g:324:LYS:HB2	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:3h:115:VAL:O	18:3h:119:LEU:HD23	2.20	0.41
18:3h:202:VAL:C	18:3h:203:MET:HE2	2.45	0.41
18:4d:28:HIS:CE1	18:4d:243:ARG:HD2	2.55	0.41
18:4d:227:LEU:O	18:4d:231:ILE:HG13	2.20	0.41
18:5b:325:PRO:HA	18:5b:328:VAL:CG1	2.41	0.41
17:5c:99:ASN:HA	17:5c:142:GLY:N	2.35	0.41
18:5f:174:SER:HB3	18:5f:207:GLU:HB2	2.01	0.41
18:5h:250:VAL:CG2	18:5h:354:GLY:HA3	2.51	0.41
17:6a:163:MET:CE	17:6a:251:ARG:HG3	2.51	0.41
18:6b:12:ALA:HB2	21:6b:501:GTP:N9	2.34	0.41
21:6b:501:GTP:O1B	17:6c:252:LYS:NZ	2.41	0.41
17:6c:67:ASP:HB3	17:6c:73:MET:HE2	2.01	0.41
17:6c:135:VAL:HG23	17:6c:164:MET:HE1	2.02	0.41
17:7a:133:PHE:CD1	17:7a:164:MET:HE1	2.54	0.41
17:7a:430:ALA:HB1	18:7h:397:LEU:HD11	2.02	0.41
17:7c:64:ILE:HD13	17:7c:120:VAL:HG22	2.01	0.41
18:7d:174:SER:HB3	18:7d:207:GLU:HB2	2.02	0.41
18:7f:28:HIS:CE1	18:7f:243:ARG:HD2	2.56	0.41
17:7g:110:ALA:O	17:7g:113:ILE:HG22	2.20	0.41
17:7g:233:MET:O	17:7g:236:ILE:HG22	2.20	0.41
18:8d:177:VAL:HB	17:8e:331:LEU:HD22	2.02	0.41
18:8f:137:VAL:HG21	18:8f:154:LEU:HD21	2.01	0.41
18:8f:321:GLY:HA3	18:8f:372:GLN:O	2.19	0.41
18:8f:384:ILE:O	18:8f:387:ILE:HG12	2.20	0.41
18:8h:268:MET:HB3	18:8h:378:ILE:HG13	2.01	0.41
18:9b:234:VAL:CG2	18:9b:302:MET:HE1	2.39	0.41
18:9d:210:TYR:CD1	18:9d:227:LEU:HD21	2.54	0.41
17:9g:60:VAL:HG21	17:9g:86:ARG:NH2	2.34	0.41
17:Aa:173:PRO:HA	17:Aa:380:ARG:HD2	2.02	0.41
17:Aa:259:PRO:HB2	17:Aa:260:PHE:CD2	2.55	0.41
18:Ab:203:MET:C	18:Ab:204:LEU:HD12	2.45	0.41
17:Ac:86:ARG:HH12	17:Bc:281:TYR:C	2.28	0.41
17:Ac:200:MET:CE	17:Ac:266:PHE:HB2	2.50	0.41
17:Ac:322:SER:HB3	17:Ac:325:GLU:HB2	2.01	0.41
18:Ad:65:CYS:SG	18:Ad:66:ILE:N	2.93	0.41
18:Ad:265:ILE:HG22	18:Ad:380:ASN:HD21	1.84	0.41
17:Ag:67:ASP:HB3	17:Ag:73:MET:HE3	2.02	0.41
18:Bb:152:LEU:O	18:Bb:156:ARG:HG2	2.20	0.41
18:Bf:390:ARG:HG3	18:Bf:394:LYS:HD2	2.01	0.41
17:Bg:86:ARG:HD3	17:Bg:86:ARG:HA	1.85	0.41
17:Ca:170:VAL:HG11	17:Ca:377:MET:SD	2.60	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ca:337:ASN:HB3	17:Ca:340:TYR:HD2	1.83	0.41
18:Cb:55:GLU:O	18:Db:285:GLN:NE2	2.52	0.41
18:Cb:210:TYR:CE1	18:Cb:227:LEU:HD11	2.55	0.41
17:Cc:294:TRP:CE2	17:Cc:333:VAL:HG11	2.55	0.41
18:Cd:241:SER:HA	18:Cd:356:ASN:HD22	1.85	0.41
17:Ce:313:ALA:HB1	17:Ce:367:PHE:CE1	2.55	0.41
17:De:293:MET:HE1	17:De:317:PHE:CZ	2.56	0.41
17:De:321:MET:HB2	17:De:321:MET:HE2	1.79	0.41
1:0A:165:ARG:NH2	18:Bh:402:ARG:HH21	2.18	0.41
1:0A:586:PHE:CE2	1:0A:590:GLY:HA2	2.55	0.41
1:0B:161:MET:HE3	17:Be:424:GLN:HB3	2.02	0.41
1:0B:339:PRO:HB2	1:0B:356:PRO:HD3	2.03	0.41
1:0C:396:ASP:HB3	1:0C:399:LYS:HG3	2.03	0.41
1:0D:352:MET:HG2	1:0D:361:ILE:HB	2.02	0.41
1:0D:413:ILE:HD13	1:0D:429:SER:HB2	2.01	0.41
2:0F:78:PHE:CD1	2:0F:110:PHE:HE2	2.38	0.41
3:0I:147:PHE:CD1	17:Bg:409:THR:HG21	2.56	0.41
3:0I:177:GLY:N	3:0I:178:PRO:HD2	2.35	0.41
3:0I:181:ARG:NE	3:0I:185:GLU:OE2	2.53	0.41
3:0J:218:ILE:HG21	17:Cc:216:LYS:HE3	2.03	0.41
4:0K:211:ARG:NH1	18:Bf:345:ASP:OD2	2.53	0.41
5:0M:44:ILE:CD1	18:Cd:76:ASP:HB3	2.51	0.41
5:0N:229:LEU:HD21	5:0N:286:VAL:HA	2.02	0.41
5:0N:304:ALA:HA	17:Cc:39:ASP:OD2	2.20	0.41
7:0Q:72:LEU:HD12	7:0Q:85:VAL:HG22	2.02	0.41
7:0Q:584:ALA:HB3	7:0Q:615:TRP:CZ3	2.54	0.41
7:0S:72:LEU:HD12	7:0S:85:VAL:HG22	2.02	0.41
10:0V:1:UNK:H2	18:2b:123:ARG:HH21	1.67	0.41
13:1B:1698:ILE:HG22	13:1B:1700:PRO:HD2	2.01	0.41
13:1C:1313:VAL:O	13:1C:1410:PHE:HB2	2.20	0.41
13:1C:1536:PRO:HA	13:1C:1537:PRO:HD3	1.92	0.41
14:1E:502:SER:O	14:1E:506:MET:HG2	2.19	0.41
14:1G:605:GLU:O	14:1G:608:PHE:HB2	2.20	0.41
14:1G:654:VAL:O	14:1G:657:ARG:N	2.52	0.41
14:1G:861:ALA:O	14:1G:864:GLU:HG3	2.21	0.41
17:1a:238:CYS:SG	17:1a:241:ARG:NH2	2.92	0.41
17:1g:174:LYS:HE2	17:1g:205:GLU:CD	2.45	0.41
18:1h:21:TRP:CE3	18:1h:24:TYR:HD2	2.38	0.41
18:2b:79:ARG:HG3	18:2b:92:LEU:HD22	2.02	0.41
18:2b:177:VAL:CG2	17:2c:327:ASP:HB3	2.50	0.41
18:2b:210:TYR:CD1	18:2b:222:PRO:HB2	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2d:216:SER:HB3	18:2d:275:ILE:O	2.19	0.41
18:2f:33:ASP:OD1	18:2f:34:GLY:N	2.53	0.41
18:2f:210:TYR:CD1	18:2f:222:PRO:HB2	2.55	0.41
18:2f:242:LEU:HD21	18:2f:252:ILE:HG12	2.02	0.41
17:2g:391:ARG:HG3	17:2g:391:ARG:O	2.20	0.41
18:3b:21:TRP:CE3	18:3b:24:TYR:HD2	2.38	0.41
18:3b:311:LYS:H	18:3b:382:THR:HG22	1.85	0.41
18:3d:217:LEU:HD21	18:3d:368:LEU:HD23	2.02	0.41
18:3d:227:LEU:O	18:3d:231:ILE:HG13	2.20	0.41
18:3h:70:LEU:HD12	18:3h:99:ALA:HB2	2.01	0.41
18:3h:269:LEU:HB3	18:3h:301:MET:HE2	2.02	0.41
18:3h:319:TYR:CZ	18:3h:328:VAL:HG23	2.55	0.41
17:4a:173:PRO:HA	17:4a:380:ARG:HD2	2.02	0.41
18:4d:169:PHE:HZ	18:4d:238:LEU:HD13	1.85	0.41
17:4g:98:GLY:HA2	18:4h:254:GLU:CD	2.45	0.41
18:4h:21:TRP:CZ3	18:4h:52:PHE:HB3	2.56	0.41
18:5b:246:GLY:HA2	18:5b:357:TYR:CE1	2.55	0.41
18:5b:311:LYS:H	18:5b:382:THR:HG22	1.84	0.41
17:5c:252:LYS:HB2	17:5c:252:LYS:HE3	1.66	0.41
17:5c:379:LYS:O	17:5c:383:GLU:HG2	2.20	0.41
17:5e:207:LEU:HA	17:5e:210:ILE:HG22	2.01	0.41
17:5g:8:GLN:HB3	17:5g:14:ASN:HA	2.02	0.41
17:5g:21:TRP:CE2	17:5g:63:ALA:HB2	2.55	0.41
17:6a:233:MET:O	17:6a:236:ILE:HG22	2.20	0.41
18:6b:222:PRO:HD2	17:6c:324:LYS:HG2	2.01	0.41
17:6c:117:LEU:HB3	17:6c:121:ARG:NH1	2.35	0.41
18:6d:145:THR:N	21:6d:501:GTP:O2G	2.36	0.41
17:6e:268:VAL:HG12	17:6e:368:ILE:HG23	2.02	0.41
18:6f:210:TYR:CE1	17:6g:324:LYS:HB2	2.54	0.41
18:6h:9:ILE:HA	18:6h:68:LEU:O	2.21	0.41
17:7c:390:ARG:NH1	17:7c:391:ARG:HH12	2.13	0.41
18:7h:223:THR:O	18:7h:227:LEU:HG	2.20	0.41
18:8f:132:LEU:HB3	18:8f:164:LYS:HE2	2.02	0.41
17:9c:394:PHE:CD1	18:9d:261:PRO:HA	2.55	0.41
17:Aa:207:LEU:HD13	17:Aa:225:LEU:HB3	2.02	0.41
17:Aa:294:TRP:CE2	17:Aa:333:VAL:HG11	2.55	0.41
18:Af:224:TYR:HD2	17:Ag:245:GLN:HG2	1.85	0.41
18:Af:331:SER:O	18:Af:334:THR:OG1	2.34	0.41
17:Ag:54:ALA:HB1	17:Bg:280:GLN:O	2.21	0.41
17:Ag:175:VAL:HB	17:Ag:205:GLU:OE2	2.20	0.41
17:Ag:207:LEU:HD23	17:Ag:300:MET:SD	2.60	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ah:370:LYS:O	18:Ah:370:LYS:HD3	2.20	0.41
18:Bb:21:TRP:CE3	18:Bb:24:TYR:HD2	2.38	0.41
18:Bb:198:THR:HG21	18:Bb:201:ALA:HB2	2.02	0.41
18:Bd:203:MET:C	18:Bd:204:LEU:HD12	2.46	0.41
18:Bd:293:ASN:O	18:Bd:297:GLU:HG2	2.21	0.41
18:Bf:177:VAL:CG2	17:Bg:327:ASP:HB3	2.49	0.41
17:Ca:318:ARG:HB2	17:Ca:364:SER:OG	2.21	0.41
18:Cb:49:PHE:O	18:Cb:53:PHE:N	2.40	0.41
18:Cb:210:TYR:CD1	18:Cb:227:LEU:HD21	2.56	0.41
17:Ce:299:MET:HE1	17:Ce:367:PHE:HD2	1.86	0.41
18:Cf:317:LEU:HD23	18:Cf:377:MET:HG2	2.01	0.41
17:Da:12:CYS:SG	17:Da:138:SER:HB3	2.60	0.41
18:Db:174:SER:HB3	18:Db:207:GLU:HB2	2.01	0.41
18:Db:311:LYS:H	18:Db:382:THR:CG2	2.33	0.41
18:Db:316:CYS:HB3	18:Db:378:ILE:HG23	2.01	0.41
17:Dc:273:LEU:N	17:Dc:292:GLN:HE22	2.18	0.41
17:De:110:ALA:O	17:De:113:ILE:HG22	2.20	0.41
17:Dg:259:PRO:HB2	17:Dg:260:PHE:CD2	2.54	0.41
1:0B:457:ASP:CB	1:0B:499:GLY:HA2	2.49	0.41
1:0C:542:SER:HB3	1:0C:553:VAL:HG12	2.03	0.41
1:0D:396:ASP:HB2	1:0D:403:VAL:HG23	2.02	0.41
2:0F:143:GLU:OE2	2:0F:151:PRO:HD3	2.20	0.41
2:0G:70:ASN:ND2	2:0G:93:ASN:HA	2.31	0.41
3:0I:147:PHE:HB2	17:Bg:409:THR:HG21	2.02	0.41
3:0J:226:SER:HA	6:0P:169:ARG:HH12	1.86	0.41
3:0J:299:LYS:HD3	3:0J:299:LYS:C	2.45	0.41
4:0K:188:VAL:HG22	18:Bf:215:ARG:NH2	2.35	0.41
4:0L:158:GLN:C	4:0L:160:ALA:H	2.28	0.41
8:0T:142:UNK:O	18:Ch:123:ARG:HG3	2.20	0.41
14:1G:415:PRO:HA	14:1G:416:PRO:HD3	1.89	0.41
18:1b:101:ASN:HA	18:1b:101:ASN:HD22	1.69	0.41
17:1e:273:LEU:N	17:1e:292:GLN:HE22	2.15	0.41
18:1f:223:THR:OG1	18:1f:224:TYR:N	2.54	0.41
18:1h:88:HIS:CD2	18:2h:283:HIS:HB3	2.55	0.41
17:2c:86:ARG:HG2	17:2c:88:ASP:H	1.84	0.41
17:2c:299:MET:HE1	17:2c:367:PHE:HD2	1.85	0.41
17:2g:170:VAL:HG11	17:2g:377:MET:SD	2.61	0.41
17:3g:178:THR:OG1	17:3g:181:GLU:HG3	2.20	0.41
18:4b:265:ILE:HG23	18:4b:432:PHE:HE1	1.85	0.41
17:4c:74:ASP:OD1	17:4c:77:ARG:NH2	2.52	0.41
18:4d:79:ARG:HG3	18:4d:92:LEU:HD22	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:4h:210:TYR:CD1	18:4h:227:LEU:HD21	2.55	0.41
18:5b:210:TYR:CG	17:5c:324:LYS:HD3	2.56	0.41
17:6a:167:PHE:CE1	17:6a:233:MET:HG2	2.55	0.41
17:6a:324:LYS:HD3	18:6h:210:TYR:CD2	2.55	0.41
17:6a:415:MET:SD	17:6a:415:MET:C	3.04	0.41
17:6c:31:ASP:OD1	17:6c:35:THR:N	2.54	0.41
18:6f:230:LEU:HB3	18:6f:302:MET:CE	2.50	0.41
18:7b:33:ASP:OD2	18:7b:35:GLN:NE2	2.54	0.41
18:7b:179:THR:OG1	17:7c:351:SER:O	2.38	0.41
17:7c:375:GLN:NE2	17:7c:423:GLN:HB2	2.35	0.41
18:7f:15:GLN:HB3	18:7f:228:ASN:ND2	2.36	0.41
18:7f:203:MET:HE3	18:7f:267:PHE:HD1	1.84	0.41
17:7g:69:GLU:HA	17:7g:70:PRO:HD3	1.93	0.41
18:7h:79:ARG:HG3	18:7h:92:LEU:HD22	2.02	0.41
17:8a:36:TYR:OH	17:8a:40:SER:N	2.46	0.41
17:8a:179:VAL:O	17:8a:182:PRO:HD2	2.20	0.41
17:8a:299:MET:HE1	17:8a:367:PHE:CD2	2.55	0.41
17:8c:21:TRP:CZ3	17:8c:61:PRO:HB3	2.55	0.41
18:8f:188:VAL:HG13	18:8f:425:LEU:HD22	2.01	0.41
18:8h:252:ILE:HD13	18:8h:255:PHE:CE2	2.56	0.41
17:9a:203:ASP:OD2	17:9a:377:MET:HE1	2.21	0.41
18:9b:174:SER:HB3	18:9b:207:GLU:HB2	2.01	0.41
18:9b:377:MET:SD	18:9b:379:SER:HB3	2.61	0.41
17:9c:139:LEU:HG	17:9c:168:SER:HB3	2.02	0.41
18:9d:258:ASN:ND2	18:9d:352:LYS:HE2	2.35	0.41
18:9d:384:ILE:O	18:9d:387:ILE:HG12	2.20	0.41
17:9e:66:MET:HE2	17:9e:66:MET:HB3	1.67	0.41
18:9f:155:GLU:O	18:9f:159:VAL:HG23	2.20	0.41
18:Ab:210:TYR:CE1	18:Ab:227:LEU:HD11	2.55	0.41
17:Ac:208:TYR:CE1	17:Ac:225:LEU:HD11	2.56	0.41
17:Ag:109:GLY:HA2	17:Ag:147:MET:HE1	2.03	0.41
18:Ah:102:ASN:HB3	18:Ah:105:ARG:HB2	2.03	0.41
18:Ah:141:VAL:HG13	18:Ah:187:SER:HA	2.01	0.41
18:Ah:194:LEU:O	18:Ah:198:THR:HG22	2.21	0.41
17:Ba:324:LYS:HD3	18:Bh:210:TYR:CG	2.55	0.41
18:Bb:102:ASN:HB3	18:Bb:105:ARG:HB2	2.02	0.41
18:Bd:7:ILE:HG23	18:Bd:66:ILE:HG23	2.01	0.41
17:Be:373:ALA:O	17:Be:376:GLU:HG2	2.20	0.41
18:Bh:34:GLY:HA3	18:Bh:60:LYS:HG3	2.03	0.41
18:Bh:52:PHE:O	18:Bh:64:ARG:HG2	2.20	0.41
17:Ca:358:PRO:HG2	17:Ca:361:LEU:HB2	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ch:337:THR:O	18:Ch:339:ARG:HD2	2.20	0.41
17:Da:149:THR:HB	17:Da:191:GLN:HG3	2.01	0.41
18:Dd:227:LEU:O	18:Dd:231:ILE:HG13	2.20	0.41
18:Df:155:GLU:O	18:Df:159:VAL:HG23	2.20	0.41
18:Dh:320:ARG:HH21	18:Dh:358:GLN:HG3	1.85	0.41
1:0A:156:ARG:HG3	1:0D:155:GLU:HB3	2.02	0.41
1:0B:409:HIS:CE1	1:0B:435:ARG:HG3	2.55	0.41
1:0B:418:PHE:HE1	1:0B:439:LEU:HD11	1.85	0.41
1:0C:328:SER:HB2	1:0C:598:SER:HA	2.02	0.41
1:0D:203:LYS:HG3	18:Ch:422:ARG:NH2	2.34	0.41
1:0D:577:HIS:NE2	1:0D:595:SER:OG	2.50	0.41
2:0E:117:ASN:OD1	2:0E:117:ASN:N	2.51	0.41
3:0I:434:HIS:HB2	14:1D:1006:ARG:HH12	1.86	0.41
3:0J:428:PHE:HE2	14:1F:972:GLU:HB3	1.84	0.41
3:0J:431:LEU:HD23	3:0J:431:LEU:HA	1.86	0.41
5:0M:747:LEU:HD23	5:0M:747:LEU:HA	1.92	0.41
5:0N:191:GLN:NE2	18:Cb:29:GLY:HA2	2.35	0.41
5:0N:615:PHE:CZ	17:1e:75:SER:HB3	2.55	0.41
7:0S:76:GLN:HG2	7:0S:103:GLU:HB3	2.03	0.41
12:0X:7:LYS:O	12:0X:307:VAL:HG13	2.20	0.41
12:0X:88:PHE:CE1	12:0X:308:MET:HG3	2.55	0.41
12:0X:354:TYR:OH	12:0Y:351:LEU:O	2.39	0.41
12:0Y:327:ARG:HB3	12:0Y:331:ARG:NH2	2.35	0.41
13:1B:1690:MET:SD	13:1B:1701:LEU:HD13	2.60	0.41
13:1C:1694:VAL:HG22	13:1C:1697:ARG:HH21	1.86	0.41
14:1D:518:LEU:HD12	14:1D:522:HIS:CE1	2.56	0.41
14:1F:600:LYS:HE3	14:1F:603:ARG:HD2	2.02	0.41
17:1a:21:TRP:CE3	17:1a:61:PRO:HB3	2.55	0.41
17:1a:21:TRP:CZ3	17:1a:61:PRO:HB3	2.56	0.41
17:1a:252:LYS:NZ	21:1h:501:GTP:O1B	2.41	0.41
18:1b:265:ILE:HG23	18:1b:432:PHE:HE1	1.85	0.41
18:1d:7:ILE:HG23	18:1d:66:ILE:HG23	2.01	0.41
18:1d:112:LYS:O	18:1d:115:VAL:HG12	2.20	0.41
18:1d:139:ASN:OD1	18:1d:170:THR:HG22	2.19	0.41
17:1e:112:LEU:HD23	17:1e:147:MET:HE1	2.03	0.41
18:2b:167:LEU:HG	18:2b:200:VAL:HB	2.03	0.41
18:2b:408:TYR:HD2	18:2b:413:MET:HE1	1.85	0.41
18:2d:70:LEU:HD12	18:2d:99:ALA:HB2	2.03	0.41
18:2f:177:VAL:CG2	17:2g:327:ASP:HB3	2.50	0.41
17:2g:326:VAL:O	17:2g:330:MET:HG2	2.20	0.41
18:2h:53:PHE:HB3	18:2h:61:HIS:HB3	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2h:210:TYR:CD1	18:2h:227:LEU:HD21	2.56	0.41
18:2h:227:LEU:O	18:2h:231:ILE:HG13	2.20	0.41
18:2h:250:VAL:HG22	18:2h:352:LYS:HE3	2.02	0.41
17:3a:12:CYS:SG	17:3a:138:SER:HB3	2.61	0.41
18:3b:306:ASP:HB3	18:3b:309:HIS:ND1	2.36	0.41
17:3c:289:LEU:HD22	17:3c:363:MET:HG2	2.03	0.41
18:3d:21:TRP:CE3	18:3d:24:TYR:HD2	2.38	0.41
17:3e:381:VAL:HB	17:3e:415:MET:HE1	2.01	0.41
17:3g:73:MET:SD	17:3g:92:PHE:HB3	2.60	0.41
18:3h:181:VAL:O	18:3h:398:MET:HE1	2.20	0.41
18:4f:223:THR:OG1	17:4g:245:GLN:OE1	2.38	0.41
18:4f:339:ARG:HA	18:4f:339:ARG:HE	1.84	0.41
17:4g:220:PRO:O	18:4h:326:LYS:NZ	2.30	0.41
17:4g:293:MET:HG3	17:4g:367:PHE:HB2	2.02	0.41
18:5b:169:PHE:HZ	18:5b:238:LEU:HD13	1.86	0.41
17:5c:69:GLU:HA	17:5c:70:PRO:HD3	1.91	0.41
17:5e:21:TRP:HZ3	17:5e:50:TYR:HB3	1.85	0.41
17:5e:66:MET:CE	17:5e:147:MET:HB3	2.51	0.41
17:5g:64:ILE:HG12	17:5g:119:VAL:HG12	2.01	0.41
17:5g:98:GLY:O	18:5h:257:THR:OG1	2.30	0.41
18:5h:251:ASP:O	18:5h:254:GLU:HG2	2.20	0.41
18:5h:311:LYS:H	18:5h:382:THR:HG22	1.86	0.41
17:6a:252:LYS:HB2	17:6a:252:LYS:HE3	1.62	0.41
18:6b:408:TYR:O	18:6b:413:MET:HB2	2.20	0.41
17:6e:252:LYS:HB2	17:6e:252:LYS:HE3	1.70	0.41
17:6g:319:GLY:HA2	17:6g:357:PRO:HD3	2.02	0.41
18:6h:132:LEU:HB3	18:6h:164:LYS:HE2	2.02	0.41
17:7e:31:ASP:OD1	17:7e:35:THR:N	2.54	0.41
17:7e:316:LEU:HB2	17:7e:366:THR:CG2	2.51	0.41
18:7h:70:LEU:HA	18:7h:95:GLY:HA3	2.02	0.41
17:8c:31:ASP:OD1	17:8c:35:THR:N	2.54	0.41
17:8c:167:PHE:CE1	17:8c:233:MET:HG2	2.54	0.41
18:8d:180:ALA:HB3	18:8d:183:GLU:HB2	2.03	0.41
17:8e:164:MET:HB3	17:8e:197:ASP:H	1.85	0.41
17:8e:213:ARG:HH21	17:8e:297:LYS:HD2	1.86	0.41
17:8e:318:ARG:HB3	17:8e:357:PRO:HA	2.02	0.41
18:8f:210:TYR:HD1	18:8f:222:PRO:HB2	1.85	0.41
18:8f:395:PHE:HZ	18:8f:418:PHE:HD1	1.69	0.41
17:9a:213:ARG:CZ	17:9a:213:ARG:HB2	2.51	0.41
18:9d:216:SER:HB3	18:9d:275:ILE:O	2.20	0.41
17:9e:99:ASN:OD1	18:9f:258:ASN:ND2	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:9e:201:VAL:HG11	17:9e:377:MET:CE	2.50	0.41
17:9g:232:VAL:HG21	17:9g:300:MET:CE	2.51	0.41
17:Aa:12:CYS:SG	17:Aa:138:SER:HB3	2.61	0.41
17:Aa:222:PHE:HD2	20:Aa:501:GDP:C2	2.38	0.41
18:Ab:211:ASP:O	18:Ab:215:ARG:HG2	2.21	0.41
18:Ab:223:THR:O	18:Ab:227:LEU:HG	2.20	0.41
18:Ab:250:VAL:HG22	18:Ab:352:LYS:HE3	2.02	0.41
18:Ad:297:GLU:OE2	18:Ad:300:SER:N	2.53	0.41
17:Ae:167:PHE:CZ	17:Ae:233:MET:HG2	2.55	0.41
18:Af:7:ILE:HG23	18:Af:66:ILE:HG23	2.01	0.41
18:Af:144:GLY:N	21:Af:501:GTP:O2G	2.53	0.41
18:Af:210:TYR:CD1	18:Af:222:PRO:HB2	2.55	0.41
17:Ag:170:VAL:HG11	17:Ag:377:MET:SD	2.60	0.41
18:Ah:223:THR:O	18:Ah:227:LEU:HG	2.20	0.41
17:Ba:21:TRP:CZ3	17:Ba:61:PRO:HB3	2.56	0.41
18:Bb:203:MET:C	18:Bb:204:LEU:HD12	2.45	0.41
18:Bb:205:ASP:OD2	18:Bb:303:VAL:HG13	2.21	0.41
17:Be:50:TYR:CE2	17:Be:241:ARG:HD3	2.55	0.41
18:Bh:253:THR:HA	18:Bh:256:GLN:HE22	1.85	0.41
17:Ca:294:TRP:HE1	17:Ca:330:MET:HE1	1.85	0.41
17:Cc:12:CYS:SG	17:Cc:138:SER:HB3	2.60	0.41
17:Ce:174:LYS:NZ	18:Cf:333:ALA:HB1	2.35	0.41
17:Cg:215:LEU:HB3	17:Cg:217:LEU:HD13	2.03	0.41
18:Db:115:VAL:O	18:Db:119:LEU:HD23	2.20	0.41
17:Dc:417:ASP:O	17:Dc:421:GLU:HG2	2.20	0.41
18:Df:9:ILE:HD11	18:Df:153:LEU:HD23	2.02	0.41
18:Df:285:GLN:HG2	18:Df:286:LEU:N	2.36	0.41
17:Dg:308:GLY:HA2	17:Dg:426:GLN:NE2	2.35	0.41
1:0A:192:LEU:O	1:0A:196:LYS:HG3	2.20	0.41
1:0B:139:LYS:HZ2	1:0C:135:LEU:HD23	1.85	0.41
1:0D:187:TYR:HD1	4:0L:109:VAL:HG22	1.86	0.41
3:0I:452:ALA:HB3	13:1C:1315:LEU:HB3	2.02	0.41
4:0K:189:ALA:HB2	18:Bf:215:ARG:HH12	1.85	0.41
5:0M:291:GLU:O	17:Cg:362:LYS:HE3	2.19	0.41
7:0S:569:ALA:HA	7:0S:585:ALA:HA	2.02	0.41
12:0X:74:GLU:OE2	12:0X:74:GLU:N	2.49	0.41
12:1A:128:ARG:HG3	12:1A:133:TYR:HE2	1.86	0.41
13:1C:1128:GLN:NE2	13:1C:1470:ASP:O	2.54	0.41
14:1F:818:MET:O	14:1F:818:MET:HE3	2.20	0.41
17:1a:275:SER:O	17:1a:279:GLN:HG3	2.20	0.41
17:1a:282:ARG:NH1	17:1a:292:GLN:OE1	2.41	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1b:318:MET:HE3	18:1b:319:TYR:N	2.35	0.41
17:1g:260:PHE:HB2	17:1g:263:LEU:HD13	2.01	0.41
17:1g:377:MET:HG3	17:1g:380:ARG:NH2	2.35	0.41
17:2e:260:PHE:HB2	17:2e:263:LEU:HD13	2.02	0.41
17:2g:175:VAL:H	17:2g:205:GLU:CD	2.29	0.41
17:2g:322:SER:HB3	17:2g:325:GLU:HB2	2.03	0.41
18:3b:115:VAL:O	18:3b:119:LEU:HD23	2.21	0.41
17:3c:173:PRO:HB3	17:3c:380:ARG:NE	2.36	0.41
17:3c:260:PHE:HB2	17:3c:263:LEU:HD13	2.02	0.41
18:3d:177:VAL:CG2	17:3e:327:ASP:HB3	2.51	0.41
18:3d:224:TYR:HD1	18:3d:227:LEU:HD12	1.86	0.41
17:3g:311:LEU:HD23	17:3g:342:VAL:HG21	2.02	0.41
17:4a:324:LYS:HB2	18:4h:210:TYR:CE1	2.55	0.41
17:4c:40:SER:HB3	17:4c:43:GLN:HG3	2.01	0.41
18:4d:123:ARG:HB3	18:4d:123:ARG:CZ	2.49	0.41
17:4e:330:MET:HB3	17:4e:349:VAL:HG11	2.03	0.41
17:4g:170:VAL:HG21	17:4g:201:VAL:HG13	2.03	0.41
17:5c:36:TYR:OH	17:5c:40:SER:N	2.42	0.41
17:5g:391:ARG:N	17:5g:391:ARG:HD2	2.35	0.41
18:5h:70:LEU:HA	18:5h:95:GLY:HA3	2.03	0.41
17:6a:317:PHE:CE1	17:6a:330:MET:HE1	2.55	0.41
18:6d:7:ILE:HG23	18:6d:66:ILE:HG23	2.03	0.41
17:6e:266:PHE:CD1	17:6e:370:ASN:HB2	2.55	0.41
18:6h:198:THR:HG21	18:6h:201:ALA:HB2	2.03	0.41
17:7a:327:ASP:HB3	18:7h:177:VAL:CG2	2.51	0.41
17:7c:5:VAL:HG23	17:7c:130:LEU:HD11	2.03	0.41
17:7c:159:TYR:HB3	17:7c:162:ARG:HG3	2.03	0.41
18:7f:21:TRP:CE3	18:7f:24:TYR:HD2	2.38	0.41
17:7g:163:MET:SD	17:7g:250:LEU:HB3	2.61	0.41
17:8c:375:GLN:NE2	17:8c:423:GLN:HB2	2.36	0.41
18:8f:180:ALA:HB3	18:8f:183:GLU:HB2	2.02	0.41
17:9a:202:LEU:HD13	17:9a:229:ILE:HG12	2.03	0.41
17:9c:107:THR:OG1	17:9c:108:GLU:N	2.54	0.41
17:9c:203:ASP:OD2	17:9c:302:ALA:N	2.33	0.41
18:9d:7:ILE:HG23	18:9d:66:ILE:HG23	2.02	0.41
17:9e:69:GLU:HG2	17:9e:69:GLU:O	2.19	0.41
17:9g:139:LEU:HD12	17:9g:170:VAL:HG22	2.02	0.41
17:9g:421:GLU:OE2	17:9g:425:TYR:HE2	2.03	0.41
17:Aa:134:GLN:HA	17:Aa:165:LEU:O	2.20	0.41
17:Ac:267:MET:HG2	17:Ac:267:MET:H	1.70	0.41
17:Ac:391:ARG:HG3	18:Ad:346:TRP:HB3	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ad:68:LEU:HD12	18:Ad:93:ILE:HB	2.03	0.41
18:Af:224:TYR:CD2	17:Ag:245:GLN:HG2	2.55	0.41
17:Ag:207:LEU:HD13	17:Ag:225:LEU:HB3	2.03	0.41
17:Bc:170:VAL:HG11	17:Bc:377:MET:SD	2.61	0.41
17:Bg:73:MET:CE	17:Bg:92:PHE:HB3	2.49	0.41
17:Bg:138:SER:O	17:Bg:145:SER:OG	2.35	0.41
17:Ca:233:MET:O	17:Ca:236:ILE:HG22	2.20	0.41
18:Cd:293:ASN:O	18:Cd:297:GLU:HG2	2.20	0.41
18:Cd:313:MET:HE3	18:Cd:313:MET:HB2	1.90	0.41
17:Ce:107:THR:OG1	17:Ce:108:GLU:N	2.54	0.41
18:Cf:265:ILE:HG22	18:Cf:380:ASN:HD21	1.86	0.41
17:Cg:86:ARG:NH1	17:Dg:281:TYR:HA	2.36	0.41
18:Ch:194:LEU:O	18:Ch:198:THR:HG22	2.21	0.41
18:Ch:203:MET:HE3	18:Ch:267:PHE:HD1	1.86	0.41
18:Ch:224:TYR:HD1	18:Ch:227:LEU:HD12	1.85	0.41
18:Df:79:ARG:NH1	18:Df:94:SER:OG	2.54	0.41
18:Df:203:MET:C	18:Df:204:LEU:HD12	2.45	0.41
1:0A:292:ALA:HB2	1:0A:446:MET:HE1	2.01	0.41
1:0A:512:THR:HG22	1:0A:518:VAL:HG22	2.03	0.41
1:0B:124:LEU:O	1:0B:128:VAL:HG23	2.21	0.41
1:0B:429:SER:OG	1:0B:430:LEU:N	2.52	0.41
1:0C:420:HIS:CE1	1:0C:421:LEU:HG	2.56	0.41
1:0C:511:SER:OG	1:0C:521:TRP:HZ3	2.04	0.41
1:0D:486:CYS:SG	1:0D:489:THR:OG1	2.79	0.41
2:0G:95:ALA:O	17:Da:110:ALA:HB1	2.20	0.41
5:0M:378:ALA:O	18:Df:278:ALA:HB3	2.20	0.41
6:0O:80:ASN:O	6:0O:84:GLN:HG2	2.21	0.41
6:0P:46:GLN:OE1	6:0P:47:PRO:HD2	2.20	0.41
7:0Q:495:ARG:NH1	7:0Q:499:THR:OG1	2.54	0.41
7:0S:179:VAL:HG22	7:0S:186:VAL:HG22	2.03	0.41
12:0Y:68:TYR:CB	12:0Y:116:ARG:HE	2.29	0.41
13:1B:1191:ILE:HD12	13:1B:1257:VAL:HG21	2.02	0.41
13:1C:1120:GLY:HA2	13:1C:1614:ARG:NH2	2.34	0.41
13:1C:1515:VAL:HA	13:1C:1594:LEU:O	2.21	0.41
13:1C:1777:PHE:HB2	14:1G:430:VAL:HG12	2.02	0.41
14:1D:419:THR:HG22	14:1D:421:VAL:N	2.35	0.41
17:1a:113:ILE:HG13	17:1a:117:LEU:HD23	2.03	0.41
18:1b:174:SER:HB3	18:1b:207:GLU:HB2	2.02	0.41
17:1c:67:ASP:O	17:1c:92:PHE:HA	2.20	0.41
17:1e:113:ILE:O	17:1e:117:LEU:HD23	2.21	0.41
18:1h:137:VAL:HG21	18:1h:154:LEU:HD21	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:2g:64:ILE:HD11	17:2g:123:GLU:HG3	2.02	0.41
17:2g:377:MET:HG2	17:2g:380:ARG:HH22	1.85	0.41
17:3c:40:SER:HB3	17:3c:43:GLN:HG3	2.01	0.41
17:3c:175:VAL:H	17:3c:205:GLU:CD	2.29	0.41
17:3c:314:SER:HA	17:3c:350:LYS:O	2.21	0.41
17:3e:317:PHE:HB3	17:3e:321:MET:HE1	2.03	0.41
18:3f:28:HIS:CE1	18:3f:243:ARG:HD2	2.55	0.41
17:4e:54:ALA:HB3	17:4e:58:ARG:HB3	2.01	0.41
17:4e:175:VAL:H	17:4e:205:GLU:CD	2.29	0.41
18:4f:268:MET:HE3	18:4f:378:ILE:HG12	2.01	0.41
17:4g:316:LEU:HB2	17:4g:366:THR:HG22	2.03	0.41
17:4g:341:PHE:HB3	17:4g:348:ASN:ND2	2.35	0.41
18:4h:268:MET:HG3	18:4h:378:ILE:HD11	2.02	0.41
17:5a:102:ALA:HB1	17:5a:401:GLU:HB2	2.03	0.41
18:5b:15:GLN:HB3	18:5b:228:ASN:ND2	2.36	0.41
18:5b:51:THR:O	18:5b:64:ARG:HD2	2.21	0.41
18:5b:137:VAL:HG21	18:5b:154:LEU:HD21	2.02	0.41
18:5b:222:PRO:HD2	17:5c:324:LYS:HG2	2.03	0.41
17:5e:109:GLY:O	17:5e:113:ILE:HB	2.21	0.41
18:5f:52:PHE:CD2	18:5f:243:ARG:HD3	2.55	0.41
18:5f:132:LEU:HD12	18:5f:132:LEU:HA	1.86	0.41
18:5h:265:ILE:HG23	18:5h:432:PHE:HE1	1.85	0.41
17:6a:245:GLN:OE1	18:6h:223:THR:OG1	2.37	0.41
18:6b:210:TYR:HD1	18:6b:222:PRO:HB2	1.85	0.41
18:6b:223:THR:O	18:6b:227:LEU:HG	2.21	0.41
17:6c:70:PRO:HG2	18:6d:1:MET:HE2	2.02	0.41
17:6c:200:MET:CE	17:6c:266:PHE:HB2	2.50	0.41
17:6c:244:GLY:HA2	17:6c:354:CYS:HA	2.02	0.41
18:7b:14:ILE:HD11	18:7b:69:ASP:HB2	2.02	0.41
17:7c:139:LEU:HD12	17:7c:170:VAL:HG22	2.03	0.41
17:7c:203:ASP:OD2	17:7c:302:ALA:N	2.35	0.41
17:7e:212:PHE:HB2	18:7f:326:LYS:NZ	2.36	0.41
18:7h:269:LEU:HD22	18:7h:303:VAL:HB	2.03	0.41
17:8a:73:MET:HE1	17:8a:91:VAL:O	2.21	0.41
17:8a:203:ASP:OD2	17:8a:302:ALA:N	2.36	0.41
18:8b:169:PHE:HZ	18:8b:238:LEU:HD13	1.86	0.41
17:8e:257:LEU:O	17:8e:259:PRO:HD3	2.21	0.41
18:8h:201:ALA:O	18:8h:267:PHE:HA	2.20	0.41
18:8h:390:ARG:HA	18:8h:393:HIS:CD2	2.55	0.41
18:9b:311:LYS:H	18:9b:382:THR:CG2	2.33	0.41
18:9b:398:MET:HE3	17:9c:346:PRO:HD2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:9c:207:LEU:HA	17:9c:210:ILE:HG22	2.03	0.41
17:9c:219:THR:O	17:9c:219:THR:OG1	2.38	0.41
18:9d:105:ARG:HA	18:9d:411:GLU:HG2	2.01	0.41
18:9f:311:LYS:H	18:9f:382:THR:CG2	2.34	0.41
17:9g:207:LEU:O	17:9g:210:ILE:HG22	2.20	0.41
17:Aa:210:ILE:HD12	17:Aa:298:ASN:HA	2.03	0.41
18:Ab:115:VAL:O	18:Ab:119:LEU:HD23	2.20	0.41
18:Ab:217:LEU:HD21	18:Ab:368:LEU:HD23	2.01	0.41
18:Af:250:VAL:HB	18:Af:318:MET:HE1	2.01	0.41
18:Bb:384:ILE:O	18:Bb:387:ILE:HG12	2.21	0.41
17:Bc:198:GLU:HG2	17:Bc:200:MET:CE	2.50	0.41
18:Bd:115:VAL:O	18:Bd:119:LEU:HD23	2.20	0.41
17:Bg:213:ARG:CZ	17:Bg:213:ARG:HB2	2.50	0.41
17:Ca:341:PHE:HB3	17:Ca:348:ASN:ND2	2.36	0.41
17:Cc:232:VAL:HG22	17:Cc:270:PHE:HB2	2.02	0.41
18:Cd:277:SER:HA	18:Cd:367:ASP:O	2.21	0.41
17:Ce:170:VAL:HG11	17:Ce:377:MET:SD	2.60	0.41
17:Ce:375:GLN:NE2	17:Ce:423:GLN:OE1	2.34	0.41
17:Cg:273:LEU:N	17:Cg:292:GLN:HE22	2.15	0.41
18:Ch:89:PRO:HB2	18:Dh:280:LYS:NZ	2.35	0.41
18:Db:223:THR:H	18:Db:226:ASN:HD22	1.69	0.41
17:Dc:252:LYS:HB2	17:Dc:252:LYS:HE3	1.74	0.41
18:Dd:253:THR:O	18:Dd:257:THR:HG23	2.21	0.41
18:Df:112:LYS:O	18:Df:115:VAL:HG12	2.21	0.41
1:0A:171:ASN:O	1:0A:175:THR:HG23	2.19	0.41
1:0B:192:LEU:O	1:0B:196:LYS:HG3	2.21	0.41
1:0B:383:LEU:HB2	1:0B:397:PHE:CZ	2.56	0.41
3:0J:154:TRP:HZ2	17:Bc:389:PHE:CZ	2.39	0.41
3:0J:207:TRP:NE1	3:0J:211:LEU:HD21	2.36	0.41
3:0J:554:GLU:HB3	14:1F:606:GLU:OE1	2.20	0.41
5:0M:247:GLU:HA	5:0M:250:ILE:HG22	2.03	0.41
7:0Q:102:VAL:HG12	7:0Q:103:GLU:N	2.36	0.41
7:0Q:109:PHE:HE1	7:0Q:132:MET:HE1	1.86	0.41
12:0X:132:MET:HE1	12:0X:223:ARG:HD2	2.03	0.41
12:0X:270:PHE:CZ	17:9g:261:PRO:HG3	2.55	0.41
12:1A:84:ASN:ND2	12:1A:298:ASP:OD1	2.53	0.41
12:1A:147:LEU:HD21	12:1A:291:LYS:HB3	2.03	0.41
12:1A:166:ASP:HA	12:1A:170:ASN:O	2.21	0.41
13:1B:1127:TRP:HA	13:1B:1132:LEU:HD12	2.03	0.41
13:1C:1340:ASP:HB2	13:1C:1392:PRO:HG2	2.03	0.41
14:1E:431:ILE:HG23	14:1E:479:MET:SD	2.60	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1E:1005:ARG:HG3	14:1E:1008:GLU:OE2	2.21	0.41
17:1a:377:MET:HG3	17:1a:380:ARG:NH2	2.36	0.41
18:1d:244:PHE:O	18:1d:356:ASN:ND2	2.54	0.41
18:1d:317:LEU:HD23	18:1d:377:MET:HG2	2.02	0.41
18:1f:79:ARG:NH1	18:1f:94:SER:OG	2.53	0.41
17:2a:375:GLN:NE2	17:2a:423:GLN:HB2	2.35	0.41
17:2c:320:ARG:HH12	17:2c:355:ASP:HB3	1.85	0.41
17:2e:5:VAL:HG23	17:2e:130:LEU:HD11	2.03	0.41
17:2g:86:ARG:HG3	17:3g:281:TYR:HB3	2.02	0.41
17:3a:31:ASP:OD1	17:3a:35:THR:N	2.54	0.41
17:3a:31:ASP:OD2	17:3a:33:THR:OG1	2.30	0.41
18:3b:137:VAL:HG21	18:3b:154:LEU:HD21	2.03	0.41
21:3b:501:GTP:O1B	17:3c:252:LYS:NZ	2.35	0.41
18:3d:21:TRP:CZ3	18:3d:52:PHE:HB3	2.54	0.41
17:3g:113:ILE:O	17:3g:117:LEU:HD23	2.20	0.41
18:3h:174:SER:HB3	18:3h:207:GLU:HB2	2.03	0.41
18:4f:203:MET:C	18:4f:204:LEU:HD12	2.46	0.41
17:4g:385:PHE:CE2	17:4g:412:GLU:HB2	2.56	0.41
18:4h:145:THR:O	18:4h:149:LEU:HB3	2.21	0.41
18:4h:390:ARG:HA	18:4h:393:HIS:CD2	2.56	0.41
18:5f:269:LEU:HD22	18:5f:303:VAL:HB	2.02	0.41
17:5g:212:PHE:HB2	18:5h:326:LYS:HZ1	1.85	0.41
18:5h:136:LEU:HD23	18:5h:167:LEU:HB2	2.03	0.41
18:6d:70:LEU:HA	18:6d:95:GLY:HA3	2.02	0.41
17:6e:377:MET:HG3	17:6e:380:ARG:NH2	2.36	0.41
18:6f:115:VAL:O	18:6f:119:LEU:HD23	2.21	0.41
18:6f:210:TYR:HD1	18:6f:222:PRO:HB2	1.86	0.41
18:7b:33:ASP:OD1	18:7b:34:GLY:N	2.53	0.41
17:7c:385:PHE:CE2	17:7c:412:GLU:HB2	2.56	0.41
18:7f:15:GLN:HB3	18:7f:228:ASN:HD21	1.85	0.41
18:7f:210:TYR:CG	17:7g:324:LYS:HD3	2.56	0.41
17:7g:170:VAL:HG11	17:7g:377:MET:SD	2.60	0.41
17:7g:193:VAL:HG22	17:7g:265:PHE:HE1	1.85	0.41
18:7h:210:TYR:CD1	18:7h:227:LEU:HD21	2.56	0.41
18:8b:241:SER:HA	18:8b:356:ASN:HD22	1.85	0.41
17:8c:107:THR:OG1	17:8c:108:GLU:N	2.54	0.41
17:8c:252:LYS:HB2	17:8c:252:LYS:HE3	1.66	0.41
18:8d:223:THR:OG1	17:8e:245:GLN:OE1	2.38	0.41
18:8h:250:VAL:HA	18:8h:254:GLU:OE1	2.20	0.41
17:9a:151:LEU:O	17:9a:155:ILE:HG13	2.21	0.41
17:9a:269:GLY:HA2	17:9a:300:MET:HE3	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9d:172:TYR:HD2	18:9d:387:ILE:HD12	1.86	0.41
18:9d:211:ASP:O	18:9d:215:ARG:HG2	2.20	0.41
18:9d:269:LEU:HD22	18:9d:303:VAL:HB	2.03	0.41
17:9g:257:LEU:O	17:9g:259:PRO:HD3	2.20	0.41
17:9g:304:ASP:HA	17:9g:305:PRO:HD3	1.94	0.41
18:Ab:398:MET:HG2	17:Ac:345:ILE:HG12	2.02	0.41
17:Ac:167:PHE:CD1	17:Ac:200:MET:HG3	2.56	0.41
17:Ac:385:PHE:CE1	17:Ac:408:PHE:HD2	2.39	0.41
18:Ad:96:LYS:HE3	17:Ae:129:CYS:HB2	2.03	0.41
18:Ad:185:TYR:CE1	18:Ad:398:MET:HB2	2.55	0.41
17:Ae:207:LEU:HD13	17:Ae:225:LEU:HB3	2.02	0.41
18:Af:137:VAL:HG21	18:Af:154:LEU:HD21	2.02	0.41
18:Ah:88:HIS:HB3	18:Ah:91:GLN:HB2	2.03	0.41
18:Ah:210:TYR:CD1	18:Ah:227:LEU:HD21	2.55	0.41
18:Bb:217:LEU:HD21	18:Bb:368:LEU:HD23	2.02	0.41
18:Bd:30:ILE:HA	18:Bd:36:MET:HB3	2.02	0.41
17:Be:164:MET:HE2	17:Be:164:MET:HB2	2.00	0.41
17:Be:294:TRP:CE2	17:Be:333:VAL:HG11	2.56	0.41
18:Bf:137:VAL:HG21	18:Bf:154:LEU:HD21	2.02	0.41
18:Bh:169:PHE:HZ	18:Bh:238:LEU:HD13	1.86	0.41
17:Ca:316:LEU:HB2	17:Ca:366:THR:HG22	2.03	0.41
18:Cb:227:LEU:O	18:Cb:231:ILE:HG13	2.21	0.41
18:Cf:5:ILE:HG13	18:Cf:132:LEU:HD11	2.02	0.41
18:Cf:11:GLN:N	21:Cf:501:GTP:O1A	2.47	0.41
17:De:173:PRO:HB3	17:De:380:ARG:NE	2.36	0.41
17:Dg:113:ILE:HG13	17:Dg:117:LEU:CD2	2.51	0.41
18:Dh:338:LYS:HD2	18:Dh:341:ILE:HG12	2.03	0.41
1:0A:457:ASP:CB	1:0A:499:GLY:HA2	2.50	0.41
1:0B:409:HIS:CE1	1:0B:429:SER:HB3	2.56	0.41
1:0C:462:PRO:HG2	1:0C:503:ASN:O	2.20	0.41
1:0D:202:MET:HB2	17:Ca:431:GLU:OE2	2.20	0.41
1:0D:335:HIS:CE1	1:0D:337:THR:HB	2.56	0.41
1:0D:454:SER:C	1:0D:471:SER:HG	2.29	0.41
1:0D:545:ASP:HB3	1:0D:548:GLY:HA3	2.03	0.41
2:0G:96:SER:O	2:0G:100:LYS:HG3	2.21	0.41
3:0I:505:GLY:HA3	14:1G:949:VAL:HG22	2.02	0.41
3:0J:177:GLY:N	3:0J:178:PRO:HD2	2.36	0.41
3:0J:554:GLU:O	3:0J:558:ARG:HG3	2.21	0.41
4:0K:174:LYS:HZ2	18:Bf:393:HIS:CD2	2.39	0.41
4:0K:216:ASP:OD1	4:0K:217:ILE:N	2.51	0.41
4:0L:158:GLN:HB3	4:0L:162:ASP:OD2	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0M:387:GLN:O	5:0M:391:VAL:HG23	2.21	0.41
5:0N:236:MET:HE3	5:0N:249:PHE:HA	2.02	0.41
5:0N:367:LEU:HD23	5:0N:367:LEU:HA	1.86	0.41
6:0O:135:ARG:HE	17:Cg:15:GLN:HG3	1.86	0.41
7:0Q:71:MET:HE1	7:0Q:88:VAL:HG22	2.03	0.41
7:0S:65:MET:HE1	7:0S:71:MET:HE1	2.02	0.41
7:0S:66:SER:OG	7:0S:70:SER:HB2	2.21	0.41
7:0S:101:ASP:OD1	7:0S:101:ASP:N	2.53	0.41
7:0S:394:ARG:HG2	7:0S:410:MET:HG3	2.02	0.41
12:0X:132:MET:CE	12:0X:223:ARG:HD2	2.51	0.41
12:0X:178:LEU:HD11	12:0X:219:HIS:CD2	2.53	0.41
12:0Y:83:TYR:O	12:0Y:235:SER:HA	2.21	0.41
12:0Y:181:VAL:HG21	12:0Y:187:ALA:HB2	2.02	0.41
12:0Z:102:SER:H	12:0Z:113:LEU:H	1.68	0.41
12:0Z:260:GLU:O	12:0Z:264:ILE:HG12	2.21	0.41
12:1A:109:ALA:O	12:1A:110:HIS:CG	2.74	0.41
13:1B:1243:ARG:HB2	13:1B:1244:PRO:HD3	2.02	0.41
13:1C:1337:TRP:CD1	13:1C:1367:ILE:HG13	2.56	0.41
13:1C:1473:TRP:HA	13:1C:1476:TRP:CD2	2.56	0.41
13:1C:1708:THR:HB	13:1C:1712:ARG:NH1	2.35	0.41
13:1C:1751:VAL:HG13	13:1C:1756:ARG:HG2	2.03	0.41
14:1D:423:GLU:O	14:1D:427:LYS:HG2	2.21	0.41
14:1D:504:ASN:OD1	14:1D:505:GLU:HG3	2.20	0.41
14:1E:463:HIS:O	14:1E:467:ILE:HG13	2.20	0.41
14:1F:821:PRO:HA	14:1F:825:VAL:HB	2.02	0.41
15:1H:5:UNK:C	17:4e:276:ARG:HH21	2.29	0.41
18:1b:210:TYR:CE1	18:1b:227:LEU:HD11	2.56	0.41
18:1d:293:ASN:O	18:1d:297:GLU:HG2	2.21	0.41
18:1d:317:LEU:O	18:1d:318:MET:HE2	2.21	0.41
17:1e:314:SER:OG	17:1e:368:ILE:HB	2.21	0.41
17:1e:375:GLN:NE2	17:1e:423:GLN:HB2	2.35	0.41
18:1f:21:TRP:CE3	18:1f:24:TYR:HD2	2.39	0.41
18:1f:88:HIS:HB3	18:1f:91:GLN:HB2	2.03	0.41
18:1f:201:ALA:O	18:1f:267:PHE:HA	2.21	0.41
17:2a:341:PHE:HB3	17:2a:348:ASN:ND2	2.34	0.41
18:2b:5:ILE:HG13	18:2b:132:LEU:HD11	2.02	0.41
18:2b:28:HIS:CE1	18:2b:243:ARG:HD2	2.56	0.41
18:2b:174:SER:HB3	18:2b:207:GLU:HB2	2.02	0.41
17:2c:70:PRO:HG2	18:2d:1:MET:SD	2.61	0.41
17:2c:167:PHE:CE1	17:2c:233:MET:HG2	2.56	0.41
17:2c:170:VAL:HG11	17:2c:377:MET:SD	2.61	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:2c:385:PHE:HZ	17:2c:408:PHE:HB3	1.85	0.41
18:2d:65:CYS:SG	18:2d:66:ILE:N	2.94	0.41
18:2d:144:GLY:N	21:2d:501:GTP:O2G	2.54	0.41
18:2d:203:MET:HE2	18:2d:203:MET:N	2.36	0.41
18:2f:70:LEU:HD21	18:2f:149:LEU:HD22	2.01	0.41
18:2f:265:ILE:HG21	18:2f:313:MET:HE1	2.03	0.41
17:2g:67:ASP:OD1	17:2g:68:LEU:N	2.54	0.41
17:2g:293:MET:HE1	17:2g:317:PHE:CZ	2.56	0.41
18:2h:115:VAL:O	18:2h:119:LEU:HD23	2.20	0.41
18:2h:194:LEU:O	18:2h:198:THR:HG22	2.21	0.41
17:3a:36:TYR:OH	17:3a:40:SER:N	2.43	0.41
17:3a:377:MET:HG3	17:3a:380:ARG:NH2	2.36	0.41
18:3b:28:HIS:NE2	18:3b:243:ARG:HD2	2.36	0.41
18:3b:255:PHE:HD2	18:3b:259:LEU:HD12	1.86	0.41
17:3c:167:PHE:CZ	17:3c:233:MET:HG2	2.56	0.41
17:3c:293:MET:HG3	17:3c:367:PHE:HB2	2.03	0.41
18:3d:121:ARG:HD3	18:3d:121:ARG:O	2.20	0.41
18:3d:250:VAL:HG22	18:3d:352:LYS:HE3	2.02	0.41
18:3f:101:ASN:HA	18:3f:144:GLY:H	1.86	0.41
18:3f:201:ALA:O	18:3f:267:PHE:HA	2.20	0.41
17:3g:139:LEU:HD12	17:3g:170:VAL:HG22	2.02	0.41
18:3h:33:ASP:OD1	18:3h:34:GLY:N	2.54	0.41
18:3h:217:LEU:HD13	18:3h:367:ASP:OD2	2.20	0.41
18:4b:21:TRP:CZ3	18:4b:52:PHE:HB3	2.55	0.41
18:4b:217:LEU:HG	18:4b:275:ILE:HG22	2.03	0.41
18:4b:306:ASP:HB3	18:4b:309:HIS:ND1	2.35	0.41
17:4c:229:ILE:HG22	17:4c:233:MET:SD	2.61	0.41
17:4e:134:GLN:HA	17:4e:165:LEU:O	2.21	0.41
17:4e:177:ASP:O	18:4f:352:LYS:HA	2.21	0.41
17:4e:207:LEU:HD11	17:4e:229:ILE:HD11	2.02	0.41
18:4f:174:SER:HB2	18:4f:177:VAL:O	2.20	0.41
18:4f:210:TYR:CE1	17:4g:324:LYS:HB2	2.56	0.41
17:4g:163:MET:HE3	17:4g:164:MET:H	1.86	0.41
17:4g:290:THR:HA	17:4g:293:MET:HE3	2.02	0.41
18:4h:234:VAL:CG2	18:4h:302:MET:HE1	2.50	0.41
17:5a:66:MET:HB3	17:5a:147:MET:CE	2.51	0.41
17:5a:174:LYS:HB2	17:5a:205:GLU:OE2	2.21	0.41
18:5b:73:THR:HA	17:5c:46:ARG:HH21	1.85	0.41
18:5b:408:TYR:O	18:5b:413:MET:HB2	2.21	0.41
17:5c:313:ALA:O	17:5c:349:VAL:HA	2.20	0.41
17:5c:358:PRO:HG2	17:5c:361:LEU:HB2	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:5d:169:PHE:HZ	18:5d:238:LEU:HD13	1.86	0.41
18:5d:179:THR:HG21	17:5e:246:LEU:HD21	2.03	0.41
17:5e:107:THR:OG1	17:5e:108:GLU:N	2.54	0.41
17:5e:397:TRP:CZ2	18:5f:256:GLN:HB3	2.56	0.41
18:5f:68:LEU:HG	18:5f:149:LEU:HD21	2.03	0.41
18:5f:255:PHE:O	18:5f:259:LEU:HB2	2.21	0.41
17:5g:12:CYS:HB2	20:5g:501:GDP:C8	2.55	0.41
17:5g:21:TRP:CZ3	17:5g:50:TYR:HB3	2.56	0.41
17:5g:64:ILE:HD11	17:5g:123:GLU:HG3	2.03	0.41
17:5g:372:THR:HG21	17:5g:426:GLN:HB2	2.01	0.41
18:5h:227:LEU:O	18:5h:231:ILE:HG13	2.21	0.41
17:6a:182:PRO:HG2	17:6a:388:MET:HE1	2.03	0.41
17:6a:358:PRO:HG2	17:6a:361:LEU:HB2	2.03	0.41
18:6b:21:TRP:HZ3	18:6b:52:PHE:HB3	1.85	0.41
18:6b:25:CYS:HA	18:6b:30:ILE:HB	2.02	0.41
17:6c:69:GLU:HA	17:6c:70:PRO:HD3	1.90	0.41
18:6f:407:TRP:HZ2	17:6g:258:ILE:HD12	1.85	0.41
17:6g:282:ARG:NH1	17:6g:292:GLN:OE1	2.37	0.41
17:7a:133:PHE:HD1	17:7a:164:MET:HE1	1.86	0.41
17:7a:215:LEU:HB3	17:7a:217:LEU:HD13	2.03	0.41
17:7a:273:LEU:H	17:7a:292:GLN:NE2	2.16	0.41
18:7b:115:VAL:O	18:7b:119:LEU:HD23	2.20	0.41
17:7c:49:VAL:C	17:7c:62:ARG:HH12	2.29	0.41
17:7c:391:ARG:NE	18:7d:346:TRP:HB3	2.32	0.41
18:7d:54:SER:HB3	18:7d:64:ARG:NH2	2.36	0.41
18:7d:101:ASN:HA	18:7d:144:GLY:H	1.86	0.41
18:7d:319:TYR:CZ	18:7d:328:VAL:HG23	2.56	0.41
17:7e:99:ASN:HA	17:7e:142:GLY:N	2.36	0.41
18:7f:138:PHE:CE2	18:7f:235:ILE:HD13	2.56	0.41
18:7f:141:VAL:HG13	18:7f:187:SER:HA	2.03	0.41
18:7f:177:VAL:CG2	17:7g:327:ASP:HB3	2.51	0.41
18:7f:210:TYR:CD1	18:7f:227:LEU:HD21	2.56	0.41
17:7g:117:LEU:HB3	17:7g:121:ARG:HH12	1.85	0.41
17:7g:290:THR:HG21	17:7g:329:GLN:HB3	2.02	0.41
18:7h:261:PRO:HG3	18:7h:313:MET:HE2	2.02	0.41
18:8b:413:MET:HE3	18:8b:413:MET:HB2	1.93	0.41
18:8d:21:TRP:CE3	18:8d:24:TYR:HD2	2.39	0.41
17:8e:139:LEU:HG	17:8e:168:SER:HB3	2.03	0.41
17:8e:397:TRP:O	17:8e:401:GLU:HG2	2.21	0.41
18:8f:169:PHE:HZ	18:8f:238:LEU:HD13	1.85	0.41
18:8f:174:SER:HB3	18:8f:207:GLU:HB2	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:8f:177:VAL:CG2	17:8g:327:ASP:HB3	2.51	0.41
18:8f:194:LEU:O	18:8f:198:THR:HG22	2.21	0.41
17:8g:6:HIS:HE2	17:8g:8:GLN:HG2	1.86	0.41
17:9a:64:ILE:HD13	17:9a:120:VAL:HG22	2.02	0.41
17:9a:110:ALA:O	17:9a:113:ILE:HG22	2.21	0.41
17:9c:112:LEU:HB3	17:9c:147:MET:HE1	2.02	0.41
18:9d:280:LYS:O	18:9d:283:HIS:HB2	2.20	0.41
18:9f:324:VAL:HG13	18:9f:327:ASP:H	1.84	0.41
17:9g:100:ASN:HB3	17:9g:103:LYS:HB2	2.02	0.41
17:9g:134:GLN:HA	17:9g:165:LEU:O	2.21	0.41
17:9g:151:LEU:O	17:9g:155:ILE:HG13	2.21	0.41
17:9g:207:LEU:HA	17:9g:210:ILE:HG22	2.02	0.41
18:9h:182:VAL:HG21	18:9h:408:TYR:HE1	1.85	0.41
18:9h:422:ARG:NH1	18:9h:426:ALA:HB2	2.36	0.41
17:Aa:327:ASP:HB3	18:Ah:177:VAL:CG2	2.50	0.41
17:Ac:49:VAL:C	17:Ac:62:ARG:HH12	2.29	0.41
17:Ac:397:TRP:O	17:Ac:401:GLU:HG2	2.21	0.41
17:Ae:21:TRP:CZ2	17:Ae:63:ALA:HB2	2.56	0.41
17:Ae:40:SER:HB3	17:Ae:43:GLN:HG3	2.03	0.41
17:Ae:252:LYS:HE3	17:Ae:252:LYS:HB2	1.71	0.41
18:Af:27:GLU:OE2	18:Af:320:ARG:NH2	2.38	0.41
18:Af:177:VAL:CG2	17:Ag:327:ASP:HB3	2.50	0.41
17:Ag:6:HIS:HE1	17:Ag:233:MET:HE1	1.85	0.41
17:Ba:167:PHE:CE1	17:Ba:233:MET:HG2	2.55	0.41
17:Ba:375:GLN:HG3	17:Ba:419:VAL:HG13	2.02	0.41
17:Ba:417:ASP:O	17:Ba:421:GLU:OE1	2.39	0.41
18:Bb:79:ARG:NH1	18:Bb:94:SER:OG	2.54	0.41
18:Bb:223:THR:O	18:Bb:227:LEU:HG	2.20	0.41
17:Bc:7:ILE:HG21	17:Bc:151:LEU:CD2	2.51	0.41
17:Bc:373:ALA:O	17:Bc:376:GLU:HG2	2.20	0.41
17:Be:341:PHE:HB3	17:Be:348:ASN:ND2	2.35	0.41
17:Bg:209:ASP:HB3	17:Bg:213:ARG:HH12	1.85	0.41
17:Bg:238:CYS:SG	17:Bg:318:ARG:NH1	2.94	0.41
18:Bh:115:VAL:O	18:Bh:119:LEU:HD23	2.20	0.41
17:Ca:72:THR:O	17:Ca:75:SER:OG	2.31	0.41
18:Cb:198:THR:HG21	18:Cb:201:ALA:HB2	2.03	0.41
18:Cb:269:LEU:HB3	18:Cb:301:MET:HE1	2.03	0.41
18:Cb:392:ASP:HB3	18:Cb:422:ARG:NH2	2.36	0.41
18:Cd:21:TRP:CZ3	18:Cd:52:PHE:HB3	2.56	0.41
18:Cd:177:VAL:CG2	17:Ce:327:ASP:HB3	2.51	0.41
18:Cd:206:ASN:OD1	21:Cd:501:GTP:N2	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ce:31:ASP:OD1	17:Ce:35:THR:N	2.54	0.41
17:Ce:272:PRO:HD3	17:Ce:364:SER:HA	2.03	0.41
17:Ce:397:TRP:O	17:Ce:401:GLU:HG2	2.21	0.41
17:Cg:89:ASN:ND2	17:Cg:123:GLU:OE2	2.41	0.41
17:Cg:257:LEU:O	17:Cg:259:PRO:HD3	2.21	0.41
17:Cg:294:TRP:CE2	17:Cg:333:VAL:HG11	2.56	0.41
18:Ch:30:ILE:HA	18:Ch:36:MET:HB3	2.02	0.41
18:Ch:205:ASP:OD2	18:Ch:303:VAL:HG13	2.20	0.41
18:Db:272:TYR:HB3	18:Db:275:ILE:HD11	2.03	0.41
17:Dc:212:PHE:HZ	18:Dd:326:LYS:HD2	1.86	0.41
17:De:200:MET:HE3	17:De:268:VAL:HG11	2.02	0.41
17:De:203:ASP:OD2	17:De:302:ALA:N	2.32	0.41
17:De:233:MET:O	17:De:236:ILE:HG22	2.20	0.41
17:De:397:TRP:HZ2	18:Df:256:GLN:HB3	1.86	0.41
18:Df:138:PHE:CD1	18:Df:169:PHE:HB2	2.55	0.41
17:Dg:38:GLY:HA3	17:Dg:43:GLN:OE1	2.21	0.41
1:0A:129:ALA:HA	1:0A:132:ARG:HG2	2.03	0.41
1:0A:129:ALA:HB1	1:0A:133:ARG:CZ	2.50	0.41
1:0A:457:ASP:HB2	1:0A:499:GLY:HA2	2.03	0.41
1:0B:128:VAL:HG22	1:0C:128:VAL:HG23	2.02	0.41
1:0B:331:ASN:HD22	1:0B:374:VAL:H	1.67	0.41
1:0C:522:ASP:O	1:0C:526:THR:N	2.53	0.41
1:0C:554:ALA:HB1	1:0C:581:VAL:HB	2.03	0.41
2:0E:120:GLY:O	2:0E:124:GLU:HG2	2.21	0.41
3:0I:96:HIS:CG	3:0I:100:ARG:HH21	2.39	0.41
3:0I:301:PRO:HB3	18:Bh:423:GLU:CD	2.46	0.41
3:0I:431:LEU:HD23	3:0I:431:LEU:HA	1.87	0.41
3:0J:173:ALA:HA	3:0J:176:ARG:HH21	1.85	0.41
5:0M:656:SER:OG	18:1h:229:ARG:NH2	2.54	0.41
7:0S:563:THR:HB	7:0S:573:TRP:HE1	1.86	0.41
12:0X:80:MET:HE1	12:0X:125:VAL:HG23	2.03	0.41
12:0Y:109:ALA:O	12:0Y:110:HIS:CG	2.74	0.41
12:0Y:187:ALA:HA	12:0Y:190:GLN:NE2	2.35	0.41
12:0Z:203:HIS:CD2	12:0Z:205:LEU:HB2	2.56	0.41
13:1B:1333:ALA:HB1	13:1B:1334:PRO:HD2	2.03	0.41
13:1C:1184:PRO:HB3	13:1C:1262:ARG:HD3	2.03	0.41
13:1C:1376:ASN:HD21	13:1C:1574:PRO:HA	1.85	0.41
14:1D:911:LEU:H	14:1D:911:LEU:HG	1.76	0.41
14:1D:911:LEU:HD12	14:1G:400:ARG:NH2	2.36	0.41
14:1E:504:ASN:OD1	14:1E:505:GLU:HG3	2.21	0.41
14:1E:955:PRO:HB2	14:1E:986:LEU:H	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1b:115:VAL:O	18:1b:119:LEU:HD23	2.21	0.41
17:1c:337:ASN:HB3	17:1c:340:TYR:HD2	1.86	0.41
17:1e:299:MET:HE1	17:1e:367:PHE:CD2	2.56	0.41
17:1g:113:ILE:O	17:1g:117:LEU:HD23	2.21	0.41
17:1g:163:MET:HE2	17:1g:163:MET:HB2	1.84	0.41
18:1h:51:THR:O	18:1h:64:ARG:HD2	2.21	0.41
18:2d:33:ASP:OD1	18:2d:34:GLY:N	2.54	0.41
17:2g:66:MET:HE3	17:2g:66:MET:HB2	1.87	0.41
17:3c:64:ILE:HD11	17:3c:123:GLU:HG3	2.03	0.41
18:3d:7:ILE:HG23	18:3d:66:ILE:HG23	2.03	0.41
18:3d:241:SER:HA	18:3d:356:ASN:HD22	1.86	0.41
17:3e:175:VAL:H	17:3e:205:GLU:CD	2.29	0.41
18:3f:175:PRO:HB3	18:3f:390:ARG:NE	2.36	0.41
17:3g:139:LEU:HG	17:3g:168:SER:HB3	2.01	0.41
18:4b:203:MET:C	18:4b:204:LEU:HD12	2.46	0.41
18:4b:238:LEU:HA	18:4b:318:MET:HE3	2.03	0.41
17:4e:318:ARG:HB3	17:4e:357:PRO:HA	2.02	0.41
18:4h:8:HIS:CD2	18:4h:138:PHE:HD2	2.39	0.41
17:5a:40:SER:HB3	17:5a:43:GLN:HG3	2.01	0.41
18:5b:242:LEU:HD21	18:5b:252:ILE:HG12	2.03	0.41
18:5h:390:ARG:HA	18:5h:393:HIS:CD2	2.56	0.41
17:6a:138:SER:OG	20:6a:501:GDP:O2A	2.38	0.41
18:6b:5:ILE:HG13	18:6b:132:LEU:HD11	2.03	0.41
18:6b:141:VAL:HG11	18:6b:172:TYR:CE2	2.55	0.41
18:6d:132:LEU:HD12	18:6d:132:LEU:HA	1.91	0.41
18:7b:310:GLY:HA3	18:7b:383:ALA:HB2	2.02	0.41
18:7d:223:THR:O	18:7d:227:LEU:HG	2.21	0.41
18:7d:227:LEU:O	18:7d:231:ILE:HG13	2.21	0.41
18:7h:227:LEU:O	18:7h:231:ILE:HG13	2.21	0.41
17:8a:21:TRP:CZ3	17:8a:50:TYR:HB3	2.55	0.41
17:8c:253:LEU:O	17:8c:257:LEU:HB2	2.21	0.41
17:8g:12:CYS:SG	17:8g:138:SER:HB3	2.61	0.41
17:8g:134:GLN:HA	17:8g:165:LEU:O	2.21	0.41
18:8h:8:HIS:ND1	18:8h:65:CYS:SG	2.93	0.41
18:8h:88:HIS:CD2	18:8h:90:GLU:HB3	2.55	0.41
17:9c:374:ILE:HG22	17:9c:378:PHE:CE2	2.56	0.41
18:9d:115:VAL:O	18:9d:119:LEU:HD23	2.21	0.41
18:9f:259:LEU:HB3	18:9f:268:MET:HE1	2.03	0.41
17:9g:311:LEU:HD23	17:9g:342:VAL:HG21	2.02	0.41
17:Aa:164:MET:HE2	17:Aa:164:MET:HB2	1.79	0.41
18:Ad:145:THR:O	18:Ad:149:LEU:HB3	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ah:52:PHE:O	18:Ah:64:ARG:HG2	2.21	0.41
18:Ah:271:SER:OG	18:Ah:377:MET:HE3	2.21	0.41
18:Bb:15:GLN:HA	18:Bb:18:ASN:HD22	1.84	0.41
18:Bb:145:THR:N	21:Bb:501:GTP:O2G	2.39	0.41
18:Bb:259:LEU:HD21	18:Bb:316:CYS:HB2	2.03	0.41
17:Be:207:LEU:HD11	17:Be:229:ILE:HD11	2.03	0.41
18:Cb:269:LEU:O	18:Cb:378:ILE:HA	2.20	0.41
18:Cd:8:HIS:ND1	18:Cd:65:CYS:SG	2.93	0.41
18:Cf:306:ASP:HB3	18:Cf:309:HIS:ND1	2.36	0.41
17:Da:81:TYR:O	17:Da:84:ILE:HG12	2.21	0.41
17:Da:113:ILE:HG13	17:Da:117:LEU:HD23	2.02	0.41
17:Da:268:VAL:HG12	17:Da:368:ILE:HG12	2.02	0.41
17:Dc:66:MET:HE2	17:Dc:147:MET:HE3	2.03	0.41
17:Dg:275:SER:HG	17:Dg:278:SER:HG	1.61	0.41
18:Dh:205:ASP:OD2	18:Dh:303:VAL:HG13	2.21	0.41
1:0A:88:LEU:HD21	1:0D:102:LEU:HD12	2.03	0.40
1:0A:188:GLU:HA	1:0A:191:ILE:HD13	2.03	0.40
1:0A:426:ALA:HB3	1:0A:458:LEU:HD21	2.03	0.40
1:0B:430:LEU:HD12	1:0B:454:SER:HB2	2.03	0.40
1:0C:172:LYS:HE2	1:0C:172:LYS:HB3	1.76	0.40
1:0C:560:VAL:HG22	1:0C:581:VAL:HG11	2.03	0.40
1:0D:466:SER:HA	1:0D:479:TRP:O	2.21	0.40
3:0J:194:GLN:HG2	3:0J:326:TYR:CE1	2.56	0.40
5:0N:240:ARG:HE	17:Bc:41:ASP:HB3	1.86	0.40
7:0Q:71:MET:N	7:0Q:71:MET:SD	2.94	0.40
7:0Q:77:LYS:NZ	7:0Q:102:VAL:HG13	2.36	0.40
7:0Q:500:TRP:NE1	7:0Q:535:PRO:HA	2.33	0.40
7:0Q:569:ALA:HA	7:0Q:585:ALA:HA	2.04	0.40
7:0S:144:GLU:HG3	7:0S:147:LYS:HB2	2.03	0.40
12:0X:133:TYR:CE1	12:0X:222:MET:HE2	2.56	0.40
12:0X:206:ASN:HB3	12:0X:209:SER:OG	2.20	0.40
12:0Y:9:PHE:O	12:0Y:309:VAL:HA	2.21	0.40
13:1B:1190:GLU:HG3	13:1B:1484:SER:HB3	2.02	0.40
14:1E:944:LEU:HB3	14:1E:961:LEU:HG	2.03	0.40
14:1F:501:MET:HE1	14:1F:509:LEU:HD11	2.04	0.40
14:1G:928:GLY:HA3	14:1G:944:LEU:HG	2.02	0.40
16:1M:148:UNK:O	16:1M:150:UNK:N	2.54	0.40
17:1c:54:ALA:HB1	17:2c:280:GLN:O	2.22	0.40
17:1c:178:THR:OG1	17:1c:181:GLU:HG3	2.21	0.40
17:1c:318:ARG:HB3	17:1c:357:PRO:HA	2.01	0.40
18:1d:250:VAL:HG21	18:1d:318:MET:HE1	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1e:313:ALA:O	17:1e:349:VAL:HA	2.21	0.40
18:2f:141:VAL:HG13	18:2f:187:SER:HA	2.03	0.40
18:2f:144:GLY:N	21:2f:501:GTP:O2G	2.54	0.40
17:3a:317:PHE:HB3	17:3a:321:MET:SD	2.61	0.40
18:3b:132:LEU:HD12	18:3b:132:LEU:HA	1.90	0.40
18:3d:217:LEU:HD13	18:3d:367:ASP:OD2	2.21	0.40
18:3f:224:TYR:HD1	18:3f:227:LEU:HD12	1.85	0.40
18:3h:28:HIS:CE1	18:3h:243:ARG:HD2	2.56	0.40
18:4b:217:LEU:HB3	18:4b:367:ASP:OD2	2.21	0.40
18:4d:217:LEU:HG	18:4d:275:ILE:HG22	2.02	0.40
18:4d:318:MET:HE1	18:4d:378:ILE:HG22	2.03	0.40
17:4e:362:LYS:HA	17:4e:362:LYS:HD2	1.97	0.40
17:4g:182:PRO:HG2	17:4g:388:MET:CE	2.47	0.40
17:4g:397:TRP:O	17:4g:401:GLU:HG2	2.21	0.40
18:4h:115:VAL:O	18:4h:119:LEU:HD23	2.20	0.40
18:5b:34:GLY:HA3	18:5b:60:LYS:HG2	2.02	0.40
17:5c:12:CYS:HB2	20:5c:501:GDP:C8	2.56	0.40
17:5c:67:ASP:OD2	17:5c:72:THR:OG1	2.32	0.40
18:5d:203:MET:C	18:5d:204:LEU:HD12	2.46	0.40
21:5d:501:GTP:O1B	17:5e:252:LYS:NZ	2.49	0.40
18:5f:102:ASN:ND2	18:5f:411:GLU:OE1	2.54	0.40
17:5g:321:MET:HE3	17:5g:321:MET:HB2	1.80	0.40
18:5h:145:THR:O	18:5h:149:LEU:HB3	2.21	0.40
18:6b:15:GLN:HB3	18:6b:228:ASN:ND2	2.36	0.40
18:6b:259:LEU:HD13	18:6b:268:MET:HE2	2.02	0.40
18:6d:70:LEU:HD21	18:6d:149:LEU:HD22	2.03	0.40
18:7b:174:SER:HB3	18:7b:207:GLU:HB2	2.04	0.40
18:7h:79:ARG:NH1	18:7h:94:SER:OG	2.54	0.40
18:7h:311:LYS:H	18:7h:382:THR:HG22	1.86	0.40
18:8b:102:ASN:HB3	18:8b:105:ARG:HB2	2.02	0.40
18:8b:138:PHE:CD1	18:8b:169:PHE:HB2	2.56	0.40
18:8b:223:THR:OG1	17:8c:245:GLN:OE1	2.39	0.40
18:8f:73:THR:HA	17:8g:46:ARG:HH21	1.86	0.40
18:8f:261:PRO:HG3	18:8f:313:MET:HE3	2.02	0.40
18:8f:312:TYR:N	18:8f:342:GLN:O	2.53	0.40
17:8g:72:THR:O	17:8g:75:SER:OG	2.27	0.40
18:8h:311:LYS:H	18:8h:382:THR:HG22	1.85	0.40
18:9d:101:ASN:HD22	18:9d:101:ASN:HA	1.66	0.40
18:9f:207:GLU:OE2	18:9f:304:LYS:NZ	2.54	0.40
17:9g:273:LEU:N	17:9g:292:GLN:HE22	2.19	0.40
18:Ab:52:PHE:O	18:Ab:64:ARG:HG2	2.22	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ad:35:GLN:HA	18:Ad:61:HIS:HD2	1.86	0.40
17:Ae:173:PRO:HB3	17:Ae:380:ARG:NE	2.36	0.40
17:Ae:173:PRO:HB3	17:Ae:380:ARG:CZ	2.51	0.40
18:Af:387:ILE:HG22	18:Af:390:ARG:NH1	2.36	0.40
17:Bc:6:HIS:O	17:Bc:63:ALA:HA	2.21	0.40
17:Bc:38:GLY:HA3	17:Bc:43:GLN:OE1	2.21	0.40
17:Be:179:VAL:O	17:Be:388:MET:HE1	2.21	0.40
17:Be:317:PHE:HB3	17:Be:321:MET:HE1	2.03	0.40
18:Bf:145:THR:OG1	21:Bf:501:GTP:O3B	2.26	0.40
17:Cc:29:GLY:HA3	17:Cc:38:GLY:CA	2.51	0.40
17:Cc:273:LEU:O	17:Cc:292:GLN:NE2	2.55	0.40
18:Cd:194:LEU:O	18:Cd:198:THR:HG22	2.20	0.40
17:Ce:102:ALA:HB1	17:Ce:401:GLU:HB2	2.03	0.40
17:Cg:6:HIS:HE2	17:Cg:8:GLN:HG2	1.86	0.40
18:Ch:325:PRO:O	18:Ch:328:VAL:HG12	2.21	0.40
17:Da:174:LYS:HB3	17:Da:205:GLU:OE2	2.21	0.40
18:Db:262:TYR:HD2	18:Db:265:ILE:HD13	1.86	0.40
17:Dc:31:ASP:OD2	17:Dc:33:THR:OG1	2.33	0.40
17:Dc:313:ALA:O	17:Dc:349:VAL:HA	2.22	0.40
18:Dd:9:ILE:HD11	18:Dd:153:LEU:HD23	2.03	0.40
18:Dd:112:LYS:O	18:Dd:115:VAL:HG12	2.21	0.40
18:Dd:172:TYR:CD2	18:Dd:203:MET:HE1	2.57	0.40
18:Dh:21:TRP:CZ3	18:Dh:52:PHE:HB3	2.56	0.40
1:0B:367:HIS:HD1	1:0B:389:ASP:CG	2.24	0.40
1:0C:528:GLU:OE2	1:0C:531:THR:HB	2.22	0.40
3:0I:457:TRP:HZ3	3:0I:459:ARG:HB2	1.87	0.40
3:0J:178:PRO:O	3:0J:182:THR:HG23	2.22	0.40
3:0J:306:LEU:HD23	3:0J:309:ARG:NH2	2.35	0.40
3:0J:309:ARG:HH12	18:Bd:424:ASP:HB2	1.85	0.40
5:0M:258:ILE:HG22	5:0M:260:VAL:HG23	2.02	0.40
5:0M:628:ILE:HD13	17:1a:227:HIS:ND1	2.36	0.40
5:0N:684:ARG:NH2	18:Db:357:TYR:HB3	2.36	0.40
6:0P:50:VAL:HG11	17:1g:276:ARG:NE	2.35	0.40
6:0P:69:ASP:O	17:1g:320:ARG:NH1	2.48	0.40
7:0Q:409:TRP:CG	7:0Q:452:ARG:HD3	2.56	0.40
7:0S:477:VAL:HG23	7:0S:487:SER:C	2.46	0.40
12:0X:46:ASN:HD22	18:9f:264:ARG:HH11	1.68	0.40
12:0X:101:MET:HE3	12:0X:101:MET:HA	2.01	0.40
12:0X:295:VAL:HG12	12:0X:296:LEU:HD12	2.03	0.40
12:1A:277:ALA:HB1	12:1A:285:VAL:HG12	2.04	0.40
13:1B:1503:VAL:HG13	13:1B:1738:ARG:HB2	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1B:1717:ALA:O	13:1B:1721:ARG:HG3	2.21	0.40
13:1C:1570:LEU:HD23	13:1C:1570:LEU:HA	1.96	0.40
14:1D:1006:ARG:HG3	14:1D:1010:ARG:NE	2.36	0.40
14:1E:1005:ARG:HB3	14:1E:1035:VAL:HG22	2.03	0.40
14:1F:818:MET:O	14:1F:821:PRO:HD2	2.20	0.40
14:1F:861:ALA:O	14:1F:864:GLU:HG3	2.22	0.40
14:1F:905:PHE:O	14:1F:909:VAL:HG13	2.22	0.40
14:1G:494:LYS:HG3	14:1G:495:TYR:CD2	2.56	0.40
17:1a:129:CYS:HB2	18:1h:96:LYS:HE3	2.02	0.40
17:1c:50:TYR:CE2	17:1c:241:ARG:HD3	2.56	0.40
17:1c:139:LEU:HA	17:1c:145:SER:OG	2.21	0.40
18:1f:203:MET:HE3	18:1f:267:PHE:HD1	1.85	0.40
17:1g:304:ASP:HA	17:1g:305:PRO:HD3	1.93	0.40
17:2c:134:GLN:HA	17:2c:165:LEU:O	2.20	0.40
17:2e:67:ASP:OD2	17:2e:72:THR:OG1	2.29	0.40
17:2e:321:MET:HG2	17:2e:363:MET:SD	2.62	0.40
18:2f:174:SER:HB3	18:2f:207:GLU:HB2	2.02	0.40
18:2h:105:ARG:HG2	18:2h:110:ILE:HD12	2.02	0.40
17:3c:66:MET:SD	17:3c:147:MET:HB3	2.61	0.40
17:3c:311:LEU:HA	17:3c:342:VAL:HG21	2.03	0.40
17:3e:94:GLN:HE21	18:3f:131:GLY:HA3	1.86	0.40
18:3f:174:SER:HB3	18:3f:207:GLU:HB2	2.03	0.40
18:3f:217:LEU:HD13	18:3f:367:ASP:OD2	2.22	0.40
17:3g:6:HIS:HE2	17:3g:8:GLN:HG2	1.86	0.40
17:4a:68:LEU:CB	17:4a:96:GLY:HA2	2.51	0.40
18:4b:8:HIS:ND1	18:4b:65:CYS:SG	2.93	0.40
18:4d:177:VAL:CG2	17:4e:327:ASP:HB3	2.52	0.40
18:4d:216:SER:HB3	18:4d:275:ILE:O	2.21	0.40
18:4d:313:MET:HE3	18:4d:346:TRP:HH2	1.86	0.40
17:4e:110:ALA:O	17:4e:113:ILE:HG22	2.21	0.40
18:4f:138:PHE:CD1	18:4f:169:PHE:HB2	2.56	0.40
18:5f:384:ILE:O	18:5f:387:ILE:HG12	2.20	0.40
18:5h:224:TYR:HD1	18:5h:227:LEU:HD12	1.86	0.40
17:6a:156:ARG:NH2	17:6a:195:ASN:O	2.53	0.40
17:6a:226:ASN:OD1	20:6a:501:GDP:N1	2.52	0.40
17:6c:311:LEU:HA	17:6c:342:VAL:HG21	2.02	0.40
18:6d:144:GLY:N	21:6d:501:GTP:O2G	2.54	0.40
18:6f:306:ASP:HB3	18:6f:309:HIS:ND1	2.36	0.40
18:6f:312:TYR:HA	18:6f:381:SER:HB2	2.02	0.40
18:6f:398:MET:HE1	17:6g:344:TRP:O	2.21	0.40
17:6g:165:LEU:HD12	17:6g:166:THR:H	1.85	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:7a:86:ARG:HH22	17:8a:282:ARG:HA	1.87	0.40
17:7a:321:MET:HE3	17:7a:321:MET:HB2	1.84	0.40
18:7d:115:VAL:O	18:7d:119:LEU:HD23	2.21	0.40
18:7d:257:THR:H	18:7d:257:THR:HG23	1.59	0.40
17:7g:358:PRO:HG2	17:7g:361:LEU:HB2	2.03	0.40
17:8a:237:THR:OG1	17:8a:241:ARG:NH1	2.55	0.40
17:8a:253:LEU:HD11	17:8a:316:LEU:HD21	2.04	0.40
18:8d:8:HIS:ND1	18:8d:65:CYS:SG	2.93	0.40
18:8d:112:LYS:O	18:8d:115:VAL:HG12	2.22	0.40
18:8d:298:PRO:HB3	18:8d:307:PRO:HD2	2.03	0.40
18:8f:210:TYR:CG	17:8g:324:LYS:HD3	2.56	0.40
18:8f:288:VAL:HG13	18:8f:319:TYR:CE2	2.56	0.40
18:8h:174:SER:HB3	18:8h:207:GLU:HB2	2.03	0.40
17:9a:165:LEU:HD11	17:9a:200:MET:HE3	2.02	0.40
17:9a:259:PRO:HB2	17:9a:260:PHE:CD2	2.56	0.40
18:9b:192:HIS:ND1	18:9b:424:ASP:OD2	2.43	0.40
17:9c:175:VAL:H	17:9c:205:GLU:CD	2.29	0.40
18:9d:173:PRO:HB3	18:9d:183:GLU:OE2	2.21	0.40
17:9e:99:ASN:HA	17:9e:142:GLY:H	1.86	0.40
18:9f:105:ARG:HG2	18:9f:110:ILE:HD12	2.03	0.40
18:9f:317:LEU:HD23	18:9f:377:MET:HG2	2.03	0.40
17:9g:163:MET:HE2	17:9g:163:MET:HA	2.02	0.40
17:Aa:138:SER:HA	17:Aa:169:VAL:H	1.86	0.40
17:Aa:316:LEU:HB2	17:Aa:366:THR:HG22	2.04	0.40
18:Ab:6:SER:O	18:Ab:65:CYS:HA	2.21	0.40
18:Ab:141:VAL:HG11	18:Ab:172:TYR:CE2	2.56	0.40
17:Ae:139:LEU:HB2	17:Ae:170:VAL:HA	2.03	0.40
17:Ae:198:GLU:HG3	17:Ae:266:PHE:CE2	2.51	0.40
18:Af:319:TYR:CZ	18:Af:328:VAL:HG23	2.56	0.40
17:Ag:21:TRP:CE2	17:Ag:63:ALA:HB2	2.56	0.40
18:Bb:312:TYR:HA	18:Bb:381:SER:HB2	2.02	0.40
17:Bc:341:PHE:HB3	17:Bc:348:ASN:ND2	2.37	0.40
17:Be:167:PHE:CE1	17:Be:200:MET:HG3	2.56	0.40
18:Bf:141:VAL:HG13	18:Bf:187:SER:HA	2.03	0.40
17:Bg:106:TYR:HE2	17:Bg:403:MET:HE2	1.87	0.40
17:Bg:341:PHE:HB3	17:Bg:348:ASN:ND2	2.36	0.40
18:Bh:35:GLN:HA	18:Bh:61:HIS:HD2	1.85	0.40
18:Bh:173:PRO:HB3	18:Bh:183:GLU:OE2	2.21	0.40
17:Cc:117:LEU:HB3	17:Cc:121:ARG:NH1	2.36	0.40
18:Cd:319:TYR:HB3	18:Cd:323:VAL:HG21	2.03	0.40
17:Cg:212:PHE:CZ	18:Ch:326:LYS:HE2	2.56	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:De:219:THR:HA	18:Df:326:LYS:NZ	2.36	0.40
18:Df:269:LEU:HD22	18:Df:303:VAL:HB	2.04	0.40
17:Dg:304:ASP:HA	17:Dg:305:PRO:HD3	1.98	0.40
17:Dg:311:LEU:HD23	17:Dg:342:VAL:HG21	2.03	0.40
16:1L:148:UNK:O	16:1L:150:UNK:N	2.54	0.40
1:0A:512:THR:HB	1:0A:539:ALA:HB3	2.02	0.40
1:0B:457:ASP:HB2	1:0B:499:GLY:HA2	2.03	0.40
1:0D:197:LYS:HB2	1:0D:197:LYS:HE2	1.75	0.40
1:0D:346:ASP:CG	2:0G:152:ARG:HH22	2.24	0.40
2:0E:94:ALA:HB1	17:De:114:ASP:OD2	2.21	0.40
2:0F:123:VAL:O	2:0F:127:VAL:HG13	2.22	0.40
2:0H:57:LEU:HD22	2:0H:76:GLU:HB3	2.02	0.40
3:0I:202:ASN:OD1	18:Bh:127:ASP:HB3	2.21	0.40
3:0I:557:LYS:HA	3:0I:557:LYS:HD2	1.84	0.40
3:0J:146:LYS:HE2	3:0J:150:GLN:NE2	2.36	0.40
5:0M:627:HIS:HB3	17:1a:276:ARG:HH12	1.86	0.40
5:0N:181:THR:O	5:0N:182:PHE:HB2	2.22	0.40
6:0P:142:TYR:CZ	17:Cc:276:ARG:HD2	2.55	0.40
6:0P:187:ILE:HD12	17:Bc:228:LEU:HD12	2.03	0.40
7:0Q:463:SER:HB2	7:0Q:482:GLU:HB2	2.02	0.40
7:0Q:483:ASP:OD2	7:0Q:485:THR:HG22	2.20	0.40
7:0S:6:ARG:NH2	7:0S:356:THR:O	2.54	0.40
7:0S:77:LYS:NZ	7:0S:102:VAL:HG13	2.37	0.40
12:0X:166:ASP:HA	12:0X:170:ASN:O	2.20	0.40
12:0X:195:GLU:HA	12:0X:195:GLU:OE2	2.21	0.40
12:0X:359:LYS:O	12:0X:362:LYS:HG2	2.21	0.40
12:0Y:96:GLY:HA2	19:0Y:801:ADP:H5'2	2.03	0.40
12:0Y:215:VAL:HG22	12:0Y:240:VAL:HG13	2.03	0.40
12:1A:121:VAL:O	12:1A:125:VAL:HG13	2.20	0.40
13:1B:1134:ASP:HB3	13:1B:1171:PHE:HE2	1.87	0.40
13:1C:1333:ALA:HB1	13:1C:1334:PRO:HD2	2.03	0.40
13:1C:1518:ASN:HD21	13:1C:1588:LEU:CB	2.34	0.40
14:1D:988:ASP:C	14:1D:1018:LYS:HZ3	2.28	0.40
14:1F:586:TRP:HB3	14:1F:611:ALA:HB2	2.02	0.40
14:1F:664:ALA:HB3	14:1F:756:THR:HG21	2.02	0.40
14:1G:487:VAL:HA	14:1G:490:LEU:HD12	2.02	0.40
14:1G:818:MET:C	14:1G:821:PRO:HD2	2.47	0.40
18:1d:201:ALA:O	18:1d:267:PHE:HA	2.20	0.40
17:1e:377:MET:HG3	17:1e:380:ARG:NH2	2.35	0.40
18:1f:112:LYS:O	18:1f:115:VAL:HG12	2.22	0.40
18:1h:312:TYR:HA	18:1h:381:SER:HB2	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:2a:173:PRO:HB3	17:2a:380:ARG:CZ	2.50	0.40
18:2b:36:MET:HG3	18:2b:61:HIS:CE1	2.56	0.40
18:2b:198:THR:HG21	18:2b:201:ALA:HB2	2.02	0.40
17:2c:286:VAL:HG12	17:2c:329:GLN:HG3	2.03	0.40
17:2e:6:HIS:HE2	17:2e:8:GLN:HG2	1.86	0.40
18:2f:203:MET:C	18:2f:204:LEU:HD12	2.46	0.40
17:3a:73:MET:HE3	17:3a:73:MET:HB2	1.90	0.40
17:3a:341:PHE:HB3	17:3a:348:ASN:ND2	2.36	0.40
18:3b:210:TYR:CE1	17:3c:324:LYS:HB2	2.56	0.40
17:3c:54:ALA:HB1	17:4c:280:GLN:O	2.22	0.40
17:3e:374:ILE:HG22	17:3e:378:PHE:CE2	2.56	0.40
17:3g:98:GLY:HA2	18:3h:254:GLU:HG2	2.04	0.40
17:3g:139:LEU:HA	17:3g:145:SER:OG	2.21	0.40
17:4a:207:LEU:HD13	17:4a:225:LEU:HB3	2.04	0.40
17:4a:377:MET:HG2	17:4a:380:ARG:NH2	2.36	0.40
18:4b:224:TYR:HD1	18:4b:227:LEU:HD12	1.87	0.40
18:4d:210:TYR:CD1	18:4d:227:LEU:HD21	2.56	0.40
18:4d:234:VAL:HG13	18:4d:376:CYS:SG	2.61	0.40
18:4f:210:TYR:CE1	18:4f:227:LEU:HD11	2.56	0.40
18:4h:138:PHE:HE1	18:4h:169:PHE:CD2	2.39	0.40
17:5a:6:HIS:CD2	17:5a:21:TRP:HE1	2.40	0.40
17:5a:21:TRP:CE3	17:5a:61:PRO:HB3	2.57	0.40
17:5c:388:MET:CE	18:5d:348:PRO:HD2	2.52	0.40
18:5d:259:LEU:HD21	18:5d:316:CYS:HB2	2.02	0.40
17:5e:21:TRP:NE1	17:5e:63:ALA:HB2	2.35	0.40
17:5e:308:GLY:HA2	17:5e:426:GLN:NE2	2.36	0.40
17:5g:33:THR:O	17:5g:58:ARG:NH1	2.54	0.40
18:5h:242:LEU:HD21	18:5h:252:ILE:HG12	2.02	0.40
18:5h:422:ARG:HH12	18:5h:426:ALA:HB2	1.86	0.40
17:6a:49:VAL:C	17:6a:62:ARG:HH12	2.28	0.40
18:6b:398:MET:SD	18:6b:398:MET:N	2.93	0.40
17:6e:139:LEU:HA	17:6e:145:SER:OG	2.22	0.40
17:6e:193:VAL:HG22	17:6e:265:PHE:HE1	1.87	0.40
17:7c:12:CYS:SG	17:7c:138:SER:HB3	2.61	0.40
17:7e:7:ILE:HD12	17:7e:135:VAL:HG22	2.03	0.40
17:7e:69:GLU:HA	17:7e:70:PRO:HD3	1.91	0.40
18:7f:188:VAL:HG13	18:7f:425:LEU:HD22	2.02	0.40
17:7g:245:GLN:N	17:7g:355:ASP:OD1	2.54	0.40
17:7g:257:LEU:O	17:7g:259:PRO:HD3	2.21	0.40
18:7h:188:VAL:HG13	18:7h:425:LEU:HD22	2.04	0.40
17:8c:156:ARG:NH2	17:8c:195:ASN:O	2.54	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:8d:101:ASN:HA	18:8d:144:GLY:H	1.86	0.40
17:8e:8:GLN:HG2	17:8e:17:GLY:HA3	2.02	0.40
18:8f:173:PRO:HB3	18:8f:183:GLU:OE2	2.22	0.40
18:8h:138:PHE:CD1	18:8h:169:PHE:HB2	2.56	0.40
17:9a:69:GLU:HA	17:9a:70:PRO:HD3	1.92	0.40
18:9d:96:LYS:HD3	17:9e:1:MET:HE2	2.04	0.40
18:9d:210:TYR:CD1	17:9e:324:LYS:HB2	2.57	0.40
18:Ad:210:TYR:CZ	18:Ad:227:LEU:HD11	2.57	0.40
18:Ad:269:LEU:HB2	18:Ad:379:SER:OG	2.22	0.40
17:Ag:202:LEU:HD13	17:Ag:229:ILE:HG12	2.03	0.40
17:Ag:274:THR:OG1	17:Ag:279:GLN:HG2	2.21	0.40
17:Ba:8:GLN:HG2	17:Ba:17:GLY:HA3	2.03	0.40
18:Bb:269:LEU:HD22	18:Bb:303:VAL:HB	2.02	0.40
17:Bc:67:ASP:OD1	17:Bc:68:LEU:N	2.54	0.40
18:Bd:185:TYR:CE1	18:Bd:398:MET:HB2	2.56	0.40
18:Bd:419:SER:O	18:Bd:423:GLU:HG2	2.21	0.40
17:Be:202:LEU:HD13	17:Be:229:ILE:HG12	2.03	0.40
17:Be:397:TRP:CZ3	18:Bf:257:THR:HA	2.55	0.40
17:Bg:68:LEU:CB	17:Bg:96:GLY:HA2	2.51	0.40
17:Bg:385:PHE:HZ	17:Bg:408:PHE:HB3	1.86	0.40
18:Cb:179:THR:HG21	17:Cc:246:LEU:HD21	2.03	0.40
18:Cd:210:TYR:CD1	18:Cd:227:LEU:HD21	2.56	0.40
21:Cf:501:GTP:O1B	17:Cg:252:LYS:NZ	2.53	0.40
17:Cg:50:TYR:CE2	17:Cg:241:ARG:HD3	2.57	0.40
17:Cg:67:ASP:OD1	17:Cg:68:LEU:N	2.54	0.40
17:Cg:238:CYS:SG	17:Cg:318:ARG:NH1	2.94	0.40
18:Ch:105:ARG:HG2	18:Ch:110:ILE:HD12	2.04	0.40
18:Ch:312:TYR:HA	18:Ch:381:SER:HB2	2.03	0.40
17:Dc:175:VAL:H	17:Dc:205:GLU:CD	2.30	0.40
17:Dc:356:ILE:HD13	17:Dc:356:ILE:HA	1.90	0.40
18:Dd:132:LEU:HD12	18:Dd:132:LEU:HA	1.92	0.40
18:Dd:311:LYS:H	18:Dd:382:THR:CG2	2.34	0.40
18:Df:145:THR:OG1	21:Df:501:GTP:O3B	2.33	0.40
18:Df:203:MET:HE2	18:Df:203:MET:N	2.36	0.40
17:Dg:267:MET:HE2	17:Dg:305:PRO:HG3	2.02	0.40
18:Dh:132:LEU:HD12	18:Dh:132:LEU:HA	1.90	0.40
1:0A:124:LEU:O	1:0A:128:VAL:HG23	2.22	0.40
1:0B:354:HIS:HB2	1:0B:361:ILE:HD11	2.02	0.40
1:0C:429:SER:OG	1:0C:430:LEU:N	2.54	0.40
1:0D:325:HIS:NE2	1:0D:343:THR:OG1	2.44	0.40
1:0D:433:THR:HG22	1:0D:449:ARG:HG2	2.02	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0D:449:ARG:HD2	17:Da:262:ARG:HD2	2.02	0.40
2:0H:78:PHE:HB3	2:0H:86:ILE:HG13	2.04	0.40
3:0I:265:LEU:HD11	3:0I:330:LEU:HD13	2.04	0.40
4:0K:105:LEU:HD23	4:0K:105:LEU:HA	1.84	0.40
4:0L:150:PHE:CE1	17:Ba:392:LYS:HG3	2.57	0.40
5:0N:339:HIS:NE2	5:0N:417:VAL:O	2.53	0.40
7:0Q:529:MET:HE2	7:0Q:538:ARG:HH22	1.86	0.40
7:0S:124:ASP:HB3	7:0S:126:LYS:NZ	2.36	0.40
7:0S:388:TRP:NE1	7:0S:394:ARG:HD2	2.36	0.40
7:0S:554:SER:HB3	7:0S:575:TRP:HZ2	1.86	0.40
12:0X:42:GLY:HA3	18:9f:264:ARG:HG2	2.03	0.40
12:0X:102:SER:HB3	12:0X:114:ILE:HB	2.03	0.40
13:1B:1473:TRP:CH2	13:1B:1736:ARG:HB3	2.56	0.40
13:1C:1222:ARG:HD2	13:1C:1222:ARG:HA	1.98	0.40
14:1D:398:PRO:HG2	14:1D:400:ARG:NH2	2.37	0.40
14:1D:431:ILE:HG23	14:1D:479:MET:SD	2.62	0.40
14:1D:818:MET:C	14:1D:821:PRO:HD2	2.47	0.40
14:1F:568:ARG:NH2	14:1F:956:GLU:OE1	2.54	0.40
14:1G:620:GLY:C	14:1G:622:LEU:H	2.30	0.40
18:1d:21:TRP:CZ3	18:1d:52:PHE:HB3	2.56	0.40
18:1d:210:TYR:HD1	18:1d:222:PRO:HB2	1.87	0.40
17:1e:81:TYR:O	17:1e:84:ILE:HG12	2.20	0.40
17:1e:293:MET:CG	17:1e:367:PHE:HB2	2.52	0.40
18:1f:180:ALA:HB3	18:1f:183:GLU:HB2	2.04	0.40
17:2c:304:ASP:HA	17:2c:305:PRO:HD3	1.95	0.40
17:2c:321:MET:HG2	17:2c:363:MET:HE3	2.02	0.40
17:2g:267:MET:SD	17:2g:305:PRO:HG3	2.61	0.40
17:2g:299:MET:HE1	17:2g:367:PHE:CE2	2.57	0.40
17:3a:202:LEU:HD22	17:3a:300:MET:HE3	2.02	0.40
18:3b:234:VAL:HG21	18:3b:302:MET:CE	2.52	0.40
17:3e:99:ASN:HA	17:3e:142:GLY:H	1.87	0.40
17:3e:242:PHE:HB2	17:3e:354:CYS:SG	2.61	0.40
18:3f:403:ALA:HB2	17:3g:344:TRP:HZ3	1.86	0.40
17:3g:69:GLU:HA	17:3g:70:PRO:HD3	1.85	0.40
17:4a:167:PHE:CE1	17:4a:200:MET:HG3	2.56	0.40
18:4b:115:VAL:O	18:4b:119:LEU:HD23	2.22	0.40
18:4d:222:PRO:HD2	17:4e:324:LYS:HG2	2.04	0.40
17:4e:139:LEU:HA	17:4e:145:SER:OG	2.22	0.40
18:4f:165:SER:HB3	18:4f:256:GLN:HE22	1.86	0.40
17:4g:21:TRP:CE3	17:4g:61:PRO:HB3	2.56	0.40
18:4h:113:GLU:HG2	18:4h:114:ILE:N	2.36	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5c:167:PHE:CD1	17:5c:200:MET:HG3	2.56	0.40
18:5f:138:PHE:CD1	18:5f:169:PHE:HB2	2.57	0.40
18:5f:293:ASN:O	18:5f:297:GLU:HG2	2.21	0.40
17:5g:207:LEU:HD11	17:5g:229:ILE:HD11	2.04	0.40
18:5h:36:MET:HG3	18:5h:61:HIS:CE1	2.56	0.40
17:6a:139:LEU:HB2	17:6a:170:VAL:HA	2.03	0.40
17:6g:175:VAL:H	17:6g:205:GLU:CD	2.29	0.40
18:6h:100:ALA:N	21:6h:501:GTP:O3G	2.55	0.40
17:7a:86:ARG:HD3	17:7a:88:ASP:HB3	2.03	0.40
17:7a:200:MET:HE1	17:7a:266:PHE:CD2	2.56	0.40
17:7a:233:MET:O	17:7a:236:ILE:HG22	2.21	0.40
17:7c:207:LEU:HA	17:7c:210:ILE:HG22	2.02	0.40
17:7c:337:ASN:HB3	17:7c:340:TYR:HD2	1.87	0.40
18:7d:224:TYR:HD1	18:7d:227:LEU:HD12	1.86	0.40
18:7h:101:ASN:HA	18:7h:101:ASN:HD22	1.71	0.40
18:7h:115:VAL:O	18:7h:119:LEU:HD23	2.21	0.40
18:7h:203:MET:HE3	18:7h:267:PHE:HD1	1.87	0.40
17:8a:139:LEU:HG	17:8a:168:SER:HB3	2.04	0.40
17:8c:182:PRO:HD3	18:8d:349:THR:HG21	2.02	0.40
17:8c:230:SER:HA	17:8c:233:MET:HE3	2.02	0.40
18:8d:179:THR:HG21	17:8e:246:LEU:HD21	2.03	0.40
18:8d:296:PHE:HZ	18:8d:351:PHE:HE1	1.70	0.40
17:8g:112:LEU:HD23	17:8g:147:MET:HE2	2.02	0.40
17:9a:261:PRO:O	17:9a:264:HIS:HD2	2.04	0.40
17:9c:274:THR:OG1	17:9c:279:GLN:HG2	2.21	0.40
17:9e:66:MET:HA	17:9e:91:VAL:O	2.22	0.40
17:9e:68:LEU:HG	17:9e:143:THR:OG1	2.21	0.40
17:9e:100:ASN:HB3	17:9e:103:LYS:HB2	2.03	0.40
18:9f:188:VAL:HG22	18:9f:425:LEU:HD22	2.03	0.40
17:9g:21:TRP:CD1	17:9g:85:PHE:HE1	2.40	0.40
17:9g:81:TYR:HD2	17:9g:84:ILE:HD13	1.86	0.40
17:Aa:199:CYS:C	17:Aa:200:MET:HE2	2.46	0.40
18:Ab:21:TRP:CZ3	18:Ab:52:PHE:HB3	2.56	0.40
18:Ab:210:TYR:CE1	17:Ac:324:LYS:HB2	2.57	0.40
17:Ac:138:SER:HA	17:Ac:169:VAL:H	1.87	0.40
17:Ac:167:PHE:HA	17:Ac:200:MET:HB2	2.02	0.40
17:Ac:198:GLU:HG3	17:Ac:266:PHE:CD2	2.57	0.40
17:Ae:177:ASP:O	18:Af:352:LYS:HA	2.21	0.40
18:Ah:169:PHE:HZ	18:Ah:238:LEU:HD13	1.87	0.40
17:Bc:313:ALA:O	17:Bc:349:VAL:HA	2.22	0.40
18:Bd:138:PHE:HZ	18:Bd:235:ILE:HG21	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Be:73:MET:HA	17:Be:76:VAL:HB	2.02	0.40
17:Be:282:ARG:NH1	17:Be:292:GLN:OE1	2.47	0.40
18:Bf:259:LEU:HD22	18:Bf:268:MET:HE1	2.03	0.40
18:Bh:244:PHE:O	18:Bh:356:ASN:ND2	2.47	0.40
17:Ca:117:LEU:HB3	17:Ca:121:ARG:NH1	2.36	0.40
17:Ca:202:LEU:HD13	17:Ca:229:ILE:HG12	2.02	0.40
18:Cb:75:VAL:HG13	18:Cb:92:LEU:HD23	2.03	0.40
17:Cc:7:ILE:HD13	17:Cc:151:LEU:HD21	2.03	0.40
18:Cd:318:MET:HE3	18:Cd:318:MET:HB3	1.92	0.40
17:Ce:86:ARG:HG2	17:Ce:88:ASP:H	1.87	0.40
17:Da:109:GLY:O	17:Da:113:ILE:HB	2.21	0.40
17:Dc:377:MET:HG3	17:Dc:380:ARG:NH2	2.36	0.40
17:De:139:LEU:HA	17:De:145:SER:OG	2.21	0.40
18:Df:12:ALA:HB2	21:Df:501:GTP:N9	2.37	0.40
18:Df:132:LEU:HD12	18:Df:132:LEU:HA	1.93	0.40
17:Dg:391:ARG:HG3	18:Dh:346:TRP:HB3	2.01	0.40
18:Dh:185:TYR:CE1	18:Dh:398:MET:HB2	2.57	0.40
18:Dh:223:THR:OG1	18:Dh:224:TYR:N	2.54	0.40
1:0A:118:TYR:OH	1:0D:73:GLU:O	2.29	0.40
1:0A:332:LEU:HD22	1:0A:341:LEU:HD21	2.03	0.40
1:0B:138:ALA:HA	1:0B:141:ILE:HG22	2.03	0.40
2:0E:78:PHE:CD1	2:0E:110:PHE:HE2	2.40	0.40
2:0F:62:LYS:HA	2:0F:62:LYS:HE2	2.03	0.40
3:0J:464:GLN:HA	14:1F:942:MET:CE	2.51	0.40
4:0K:210:ILE:HB	18:Bf:437:ALA:HB1	2.03	0.40
5:0N:741:PRO:HG3	18:Cb:285:GLN:O	2.21	0.40
7:0Q:76:GLN:HG2	7:0Q:103:GLU:HB3	2.02	0.40
7:0Q:351:ILE:HB	7:0Q:365:VAL:HB	2.03	0.40
7:0S:16:PHE:HE1	7:0S:243:GLY:HA2	1.87	0.40
7:0S:62:ALA:N	7:0S:74:THR:OG1	2.54	0.40
7:0S:584:ALA:HB3	7:0S:615:TRP:CZ3	2.54	0.40
12:0Y:84:ASN:ND2	12:0Y:298:ASP:OD1	2.54	0.40
13:1B:1201:TRP:HZ2	13:1B:1255:CYS:SG	2.45	0.40
13:1C:1144:THR:HG22	13:1C:1281:LYS:HG2	2.03	0.40
13:1C:1499:VAL:HG13	14:1D:511:ASN:HD21	1.86	0.40
17:1a:36:TYR:O	17:1a:37:HIS:ND1	2.55	0.40
18:1f:11:GLN:N	21:1f:501:GTP:O1A	2.50	0.40
18:1f:47:ASP:OD1	18:1f:50:ASN:HB2	2.21	0.40
17:1g:397:TRP:CZ2	18:1h:260:VAL:HB	2.57	0.40
18:1h:188:VAL:HG13	18:1h:425:LEU:HD22	2.04	0.40
18:1h:203:MET:C	18:1h:204:LEU:HD12	2.46	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:2c:233:MET:O	17:2c:236:ILE:HG22	2.21	0.40
17:2e:313:ALA:HB1	17:2e:367:PHE:CE1	2.57	0.40
17:2g:73:MET:CE	17:2g:92:PHE:HB3	2.52	0.40
17:3a:10:GLY:HA2	17:3a:143:THR:HG23	2.03	0.40
17:3a:202:LEU:HD13	17:3a:229:ILE:HG12	2.04	0.40
17:3a:268:VAL:HG23	17:3a:300:MET:HE2	2.03	0.40
17:3c:49:VAL:C	17:3c:62:ARG:HH12	2.30	0.40
17:3c:341:PHE:HB3	17:3c:348:ASN:HD22	1.86	0.40
17:3c:385:PHE:HE1	17:3c:408:PHE:HD2	1.70	0.40
18:3h:188:VAL:HG13	18:3h:425:LEU:HD22	2.03	0.40
18:4b:7:ILE:HG23	18:4b:66:ILE:HG23	2.04	0.40
18:4b:111:GLY:O	18:4b:115:VAL:HG12	2.21	0.40
18:4b:271:SER:OG	18:4b:377:MET:HE3	2.22	0.40
18:4d:15:GLN:HB3	18:4d:228:ASN:ND2	2.37	0.40
17:4e:70:PRO:HD2	18:4f:1:MET:HE1	2.04	0.40
17:4e:198:GLU:HG2	17:4e:200:MET:HE2	2.03	0.40
17:4g:213:ARG:NH2	17:4g:297:LYS:HD2	2.33	0.40
18:4h:316:CYS:SG	18:4h:318:MET:HE3	2.61	0.40
17:5a:86:ARG:HG2	17:5a:88:ASP:H	1.86	0.40
17:5a:245:GLN:HG2	18:5h:224:TYR:CD2	2.56	0.40
18:5b:217:LEU:HD21	18:5b:368:LEU:HD23	2.04	0.40
17:5c:21:TRP:NE1	17:5c:63:ALA:HB2	2.36	0.40
17:5c:21:TRP:CZ3	17:5c:50:TYR:HB3	2.56	0.40
17:5c:170:VAL:HG11	17:5c:377:MET:SD	2.61	0.40
17:5e:110:ALA:O	17:5e:113:ILE:HG22	2.20	0.40
17:5e:134:GLN:HA	17:5e:165:LEU:O	2.22	0.40
17:5e:173:PRO:HB3	17:5e:380:ARG:CZ	2.51	0.40
17:6g:22:GLU:HG3	17:6g:81:TYR:CE1	2.57	0.40
17:6g:378:PHE:HD1	17:6g:415:MET:HE3	1.86	0.40
17:7a:87:PRO:HG2	17:8a:278:SER:HB3	2.02	0.40
17:7a:318:ARG:HB3	17:7a:357:PRO:HA	2.03	0.40
18:7b:210:TYR:CG	17:7c:324:LYS:HD3	2.57	0.40
17:7c:165:LEU:HD21	17:7c:236:ILE:HD13	2.03	0.40
18:7f:310:GLY:HA3	18:7f:383:ALA:HB2	2.04	0.40
18:7f:320:ARG:HH21	18:7f:358:GLN:HG3	1.86	0.40
17:7g:67:ASP:OD1	17:7g:68:LEU:N	2.52	0.40
17:7g:183:TYR:OH	17:7g:388:MET:HG2	2.22	0.40
18:7h:210:TYR:CD1	18:7h:222:PRO:HB2	2.57	0.40
18:7h:224:TYR:HD1	18:7h:227:LEU:HD12	1.87	0.40
18:7h:408:TYR:HB3	18:7h:413:MET:CE	2.49	0.40
18:8b:173:PRO:HB3	18:8b:183:GLU:OE2	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8c:198:GLU:HG3	17:8c:266:PHE:CE2	2.45	0.40
17:8c:245:GLN:HB3	17:8c:353:VAL:HG11	2.02	0.40
18:8d:210:TYR:CE1	18:8d:227:LEU:HD11	2.57	0.40
18:8d:269:LEU:O	18:8d:378:ILE:HA	2.22	0.40
17:8e:87:PRO:HA	17:8e:90:PHE:HD1	1.87	0.40
18:8f:210:TYR:CD1	18:8f:227:LEU:HD21	2.56	0.40
18:8h:33:ASP:OD1	18:8h:34:GLY:N	2.55	0.40
17:9a:54:ALA:HB3	17:9a:58:ARG:HB3	2.03	0.40
17:9c:64:ILE:HD13	17:9c:120:VAL:HG22	2.02	0.40
17:9e:207:LEU:HA	17:9e:210:ILE:HG22	2.04	0.40
18:9h:216:SER:HB3	18:9h:275:ILE:O	2.21	0.40
18:Ab:139:ASN:OD1	18:Ab:170:THR:HG22	2.20	0.40
17:Ac:198:GLU:HG3	17:Ac:266:PHE:HE2	1.86	0.40
17:Ae:21:TRP:CZ3	17:Ae:61:PRO:HB3	2.56	0.40
17:Ag:31:ASP:OD2	17:Ag:33:THR:OG1	2.35	0.40
17:Ag:117:LEU:HB3	17:Ag:121:ARG:HH12	1.87	0.40
17:Ag:207:LEU:HD11	17:Ag:229:ILE:HD11	2.03	0.40
18:Ah:7:ILE:HG23	18:Ah:66:ILE:HG23	2.03	0.40
18:Ah:123:ARG:HB3	18:Ah:123:ARG:CZ	2.52	0.40
18:Bd:173:PRO:HB3	18:Bd:183:GLU:OE2	2.22	0.40
18:Bf:122:ILE:HG22	18:Bf:161:TYR:OH	2.21	0.40
18:Bf:251:ASP:HB2	18:Bf:254:GLU:HG2	2.02	0.40
17:Bg:69:GLU:HA	17:Bg:70:PRO:HD3	1.92	0.40
18:Cb:115:VAL:O	18:Cb:119:LEU:HD23	2.20	0.40
17:Cc:178:THR:OG1	17:Cc:181:GLU:HG3	2.21	0.40
17:Ce:139:LEU:HA	17:Ce:145:SER:OG	2.21	0.40
17:Ce:173:PRO:HB3	17:Ce:380:ARG:NE	2.36	0.40
18:Cf:15:GLN:HB3	18:Cf:228:ASN:HD21	1.87	0.40
18:Ch:101:ASN:HA	18:Ch:144:GLY:H	1.86	0.40
18:Ch:215:ARG:NH1	18:Ch:299:ALA:HB1	2.36	0.40
17:Da:328:GLU:HG2	17:Da:332:ASN:ND2	2.37	0.40
17:Dc:10:GLY:HA2	17:Dc:143:THR:HG23	2.04	0.40
17:De:322:SER:HB3	17:De:325:GLU:HB2	2.02	0.40
18:Df:65:CYS:SG	18:Df:66:ILE:N	2.95	0.40
17:Dg:69:GLU:HA	17:Dg:70:PRO:HD3	1.89	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	463/606 (76%)	447 (96%)	16 (4%)	0	100	100
1	0B	463/606 (76%)	449 (97%)	14 (3%)	0	100	100
1	0C	472/606 (78%)	454 (96%)	18 (4%)	0	100	100
1	0D	472/606 (78%)	458 (97%)	14 (3%)	0	100	100
2	0E	126/222 (57%)	122 (97%)	4 (3%)	0	100	100
2	0F	126/222 (57%)	121 (96%)	5 (4%)	0	100	100
2	0G	126/222 (57%)	122 (97%)	4 (3%)	0	100	100
2	0H	126/222 (57%)	121 (96%)	5 (4%)	0	100	100
3	0I	442/976 (45%)	424 (96%)	17 (4%)	1 (0%)	43	74
3	0J	442/976 (45%)	426 (96%)	15 (3%)	1 (0%)	43	74
4	0K	164/528 (31%)	162 (99%)	2 (1%)	0	100	100
4	0L	164/528 (31%)	161 (98%)	3 (2%)	0	100	100
5	0M	507/758 (67%)	488 (96%)	19 (4%)	0	100	100
5	0N	507/758 (67%)	491 (97%)	16 (3%)	0	100	100
6	0O	184/201 (92%)	180 (98%)	4 (2%)	0	100	100
6	0P	184/201 (92%)	180 (98%)	4 (2%)	0	100	100
7	0Q	615/618 (100%)	564 (92%)	51 (8%)	0	100	100
7	0S	615/618 (100%)	566 (92%)	49 (8%)	0	100	100
12	0X	418/776 (54%)	390 (93%)	26 (6%)	2 (0%)	24	57
12	0Y	400/776 (52%)	371 (93%)	25 (6%)	4 (1%)	12	44
12	0Z	418/776 (54%)	390 (93%)	26 (6%)	2 (0%)	24	57
12	1A	400/776 (52%)	373 (93%)	24 (6%)	3 (1%)	16	49
13	1B	624/2257 (28%)	595 (95%)	29 (5%)	0	100	100
13	1C	624/2257 (28%)	595 (95%)	29 (5%)	0	100	100
14	1D	617/1074 (57%)	584 (95%)	33 (5%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	1E	617/1074 (57%)	584 (95%)	33 (5%)	0	100	100
14	1F	608/1074 (57%)	576 (95%)	32 (5%)	0	100	100
14	1G	608/1074 (57%)	573 (94%)	35 (6%)	0	100	100
17	1a	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	1c	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	1e	429/443 (97%)	421 (98%)	8 (2%)	0	100	100
17	1g	429/443 (97%)	419 (98%)	10 (2%)	0	100	100
17	2a	429/443 (97%)	418 (97%)	11 (3%)	0	100	100
17	2c	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	2e	429/443 (97%)	418 (97%)	11 (3%)	0	100	100
17	2g	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	3a	429/443 (97%)	422 (98%)	7 (2%)	0	100	100
17	3c	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	3e	429/443 (97%)	421 (98%)	8 (2%)	0	100	100
17	3g	429/443 (97%)	422 (98%)	7 (2%)	0	100	100
17	4a	429/443 (97%)	419 (98%)	10 (2%)	0	100	100
17	4c	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	4e	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	4g	429/443 (97%)	418 (97%)	11 (3%)	0	100	100
17	5a	429/443 (97%)	419 (98%)	10 (2%)	0	100	100
17	5c	429/443 (97%)	421 (98%)	8 (2%)	0	100	100
17	5e	429/443 (97%)	418 (97%)	11 (3%)	0	100	100
17	5g	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	6a	429/443 (97%)	421 (98%)	8 (2%)	0	100	100
17	6c	429/443 (97%)	419 (98%)	10 (2%)	0	100	100
17	6e	429/443 (97%)	421 (98%)	8 (2%)	0	100	100
17	6g	429/443 (97%)	419 (98%)	10 (2%)	0	100	100
17	7a	429/443 (97%)	418 (97%)	11 (3%)	0	100	100
17	7c	429/443 (97%)	421 (98%)	8 (2%)	0	100	100
17	7e	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	7g	429/443 (97%)	419 (98%)	10 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
17	8a	429/443 (97%)	418 (97%)	11 (3%)	0	100	100
17	8c	429/443 (97%)	421 (98%)	8 (2%)	0	100	100
17	8e	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	8g	429/443 (97%)	419 (98%)	10 (2%)	0	100	100
17	9a	429/443 (97%)	418 (97%)	11 (3%)	0	100	100
17	9c	429/443 (97%)	419 (98%)	10 (2%)	0	100	100
17	9e	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	9g	429/443 (97%)	417 (97%)	12 (3%)	0	100	100
17	Aa	429/443 (97%)	419 (98%)	10 (2%)	0	100	100
17	Ac	429/443 (97%)	422 (98%)	7 (2%)	0	100	100
17	Ae	429/443 (97%)	422 (98%)	7 (2%)	0	100	100
17	Ag	429/443 (97%)	422 (98%)	7 (2%)	0	100	100
17	Ba	429/443 (97%)	419 (98%)	10 (2%)	0	100	100
17	Bc	429/443 (97%)	421 (98%)	8 (2%)	0	100	100
17	Be	429/443 (97%)	421 (98%)	8 (2%)	0	100	100
17	Bg	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	Ca	429/443 (97%)	422 (98%)	7 (2%)	0	100	100
17	Cc	429/443 (97%)	418 (97%)	11 (3%)	0	100	100
17	Ce	429/443 (97%)	421 (98%)	8 (2%)	0	100	100
17	Cg	429/443 (97%)	414 (96%)	15 (4%)	0	100	100
17	Da	429/443 (97%)	421 (98%)	8 (2%)	0	100	100
17	Dc	429/443 (97%)	420 (98%)	9 (2%)	0	100	100
17	De	429/443 (97%)	419 (98%)	10 (2%)	0	100	100
17	Dg	429/443 (97%)	418 (97%)	11 (3%)	0	100	100
18	1b	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
18	1d	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
18	1f	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
18	1h	426/451 (94%)	415 (97%)	11 (3%)	0	100	100
18	2b	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
18	2d	426/451 (94%)	415 (97%)	11 (3%)	0	100	100
18	2f	426/451 (94%)	411 (96%)	15 (4%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	2h	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
18	3b	426/451 (94%)	415 (97%)	11 (3%)	0	100	100
18	3d	426/451 (94%)	413 (97%)	13 (3%)	0	100	100
18	3f	426/451 (94%)	417 (98%)	9 (2%)	0	100	100
18	3h	426/451 (94%)	415 (97%)	11 (3%)	0	100	100
18	4b	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
18	4d	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
18	4f	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
18	4h	426/451 (94%)	411 (96%)	15 (4%)	0	100	100
18	5b	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
18	5d	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
18	5f	426/451 (94%)	420 (99%)	6 (1%)	0	100	100
18	5h	426/451 (94%)	411 (96%)	15 (4%)	0	100	100
18	6b	426/451 (94%)	417 (98%)	9 (2%)	0	100	100
18	6d	426/451 (94%)	413 (97%)	13 (3%)	0	100	100
18	6f	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
18	6h	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
18	7b	426/451 (94%)	417 (98%)	9 (2%)	0	100	100
18	7d	426/451 (94%)	417 (98%)	9 (2%)	0	100	100
18	7f	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
18	7h	426/451 (94%)	415 (97%)	11 (3%)	0	100	100
18	8b	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
18	8d	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
18	8f	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
18	8h	426/451 (94%)	417 (98%)	9 (2%)	0	100	100
18	9b	426/451 (94%)	415 (97%)	11 (3%)	0	100	100
18	9d	426/451 (94%)	413 (97%)	13 (3%)	0	100	100
18	9f	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
18	9h	426/451 (94%)	411 (96%)	15 (4%)	0	100	100
18	Ab	426/451 (94%)	417 (98%)	9 (2%)	0	100	100
18	Ad	426/451 (94%)	415 (97%)	11 (3%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	Af	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
18	Ah	426/451 (94%)	415 (97%)	11 (3%)	0	100	100
18	Bb	426/451 (94%)	419 (98%)	7 (2%)	0	100	100
18	Bd	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
18	Bf	426/451 (94%)	415 (97%)	11 (3%)	0	100	100
18	Bh	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
18	Cb	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
18	Cd	426/451 (94%)	418 (98%)	8 (2%)	0	100	100
18	Cf	426/451 (94%)	418 (98%)	8 (2%)	0	100	100
18	Ch	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
18	Db	426/451 (94%)	419 (98%)	7 (2%)	0	100	100
18	Dd	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
18	Df	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
18	Dh	426/451 (94%)	415 (97%)	11 (3%)	0	100	100
All	All	55992/67876 (82%)	54371 (97%)	1608 (3%)	13 (0%)	100	100

All (13) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
12	0X	233	VAL
12	0X	408	PRO
12	0Y	408	PRO
12	0Z	233	VAL
12	0Z	408	PRO
12	1A	408	PRO
12	0Y	60	GLU
12	0Y	403	GLU
12	1A	403	GLU
12	0Y	26	PRO
3	0I	362	ILE
3	0J	362	ILE
12	1A	26	PRO

5.3.2 Protein sidechains ⓘ

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	389/482 (81%)	388 (100%)	1 (0%)	86	83
1	0B	389/482 (81%)	389 (100%)	0	100	100
1	0C	397/482 (82%)	397 (100%)	0	100	100
1	0D	397/482 (82%)	397 (100%)	0	100	100
2	0E	106/166 (64%)	106 (100%)	0	100	100
2	0F	106/166 (64%)	106 (100%)	0	100	100
2	0G	106/166 (64%)	106 (100%)	0	100	100
2	0H	106/166 (64%)	106 (100%)	0	100	100
3	0I	325/697 (47%)	324 (100%)	1 (0%)	86	83
3	0J	325/697 (47%)	325 (100%)	0	100	100
4	0K	113/410 (28%)	113 (100%)	0	100	100
4	0L	113/410 (28%)	113 (100%)	0	100	100
5	0M	426/598 (71%)	426 (100%)	0	100	100
5	0N	426/598 (71%)	426 (100%)	0	100	100
6	0O	152/159 (96%)	152 (100%)	0	100	100
6	0P	152/159 (96%)	152 (100%)	0	100	100
7	0Q	461/462 (100%)	461 (100%)	0	100	100
7	0S	461/462 (100%)	461 (100%)	0	100	100
12	0X	306/600 (51%)	305 (100%)	1 (0%)	86	83
12	0Y	274/600 (46%)	272 (99%)	2 (1%)	76	78
12	0Z	306/600 (51%)	306 (100%)	0	100	100
12	1A	274/600 (46%)	273 (100%)	1 (0%)	84	81
13	1B	487/1666 (29%)	487 (100%)	0	100	100
13	1C	487/1666 (29%)	487 (100%)	0	100	100
14	1D	291/753 (39%)	290 (100%)	1 (0%)	86	83
14	1E	291/753 (39%)	291 (100%)	0	100	100
14	1F	373/753 (50%)	373 (100%)	0	100	100
14	1G	373/753 (50%)	373 (100%)	0	100	100
17	1a	370/379 (98%)	369 (100%)	1 (0%)	86	83

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
17	1c	370/379 (98%)	370 (100%)	0	100	100
17	1e	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	1g	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	2a	370/379 (98%)	370 (100%)	0	100	100
17	2c	370/379 (98%)	370 (100%)	0	100	100
17	2e	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	2g	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	3a	370/379 (98%)	370 (100%)	0	100	100
17	3c	370/379 (98%)	370 (100%)	0	100	100
17	3e	370/379 (98%)	370 (100%)	0	100	100
17	3g	370/379 (98%)	370 (100%)	0	100	100
17	4a	370/379 (98%)	370 (100%)	0	100	100
17	4c	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	4e	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	4g	370/379 (98%)	370 (100%)	0	100	100
17	5a	370/379 (98%)	370 (100%)	0	100	100
17	5c	370/379 (98%)	370 (100%)	0	100	100
17	5e	370/379 (98%)	370 (100%)	0	100	100
17	5g	370/379 (98%)	368 (100%)	2 (0%)	81	80
17	6a	370/379 (98%)	370 (100%)	0	100	100
17	6c	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	6e	370/379 (98%)	370 (100%)	0	100	100
17	6g	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	7a	370/379 (98%)	370 (100%)	0	100	100
17	7c	370/379 (98%)	370 (100%)	0	100	100
17	7e	370/379 (98%)	370 (100%)	0	100	100
17	7g	370/379 (98%)	370 (100%)	0	100	100
17	8a	370/379 (98%)	370 (100%)	0	100	100
17	8c	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	8e	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	8g	370/379 (98%)	369 (100%)	1 (0%)	86	83

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
17	9a	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	9c	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	9e	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	9g	370/379 (98%)	370 (100%)	0	100	100
17	Aa	370/379 (98%)	370 (100%)	0	100	100
17	Ac	370/379 (98%)	370 (100%)	0	100	100
17	Ae	370/379 (98%)	370 (100%)	0	100	100
17	Ag	370/379 (98%)	370 (100%)	0	100	100
17	Ba	370/379 (98%)	370 (100%)	0	100	100
17	Bc	370/379 (98%)	370 (100%)	0	100	100
17	Be	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	Bg	370/379 (98%)	370 (100%)	0	100	100
17	Ca	370/379 (98%)	370 (100%)	0	100	100
17	Cc	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	Ce	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	Cg	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	Da	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	Dc	370/379 (98%)	370 (100%)	0	100	100
17	De	370/379 (98%)	369 (100%)	1 (0%)	86	83
17	Dg	370/379 (98%)	369 (100%)	1 (0%)	86	83
18	1b	361/374 (96%)	361 (100%)	0	100	100
18	1d	361/374 (96%)	361 (100%)	0	100	100
18	1f	361/374 (96%)	361 (100%)	0	100	100
18	1h	361/374 (96%)	361 (100%)	0	100	100
18	2b	361/374 (96%)	361 (100%)	0	100	100
18	2d	361/374 (96%)	361 (100%)	0	100	100
18	2f	361/374 (96%)	361 (100%)	0	100	100
18	2h	361/374 (96%)	361 (100%)	0	100	100
18	3b	361/374 (96%)	361 (100%)	0	100	100
18	3d	361/374 (96%)	361 (100%)	0	100	100
18	3f	361/374 (96%)	361 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	3h	361/374 (96%)	361 (100%)	0	100	100
18	4b	361/374 (96%)	361 (100%)	0	100	100
18	4d	361/374 (96%)	361 (100%)	0	100	100
18	4f	361/374 (96%)	361 (100%)	0	100	100
18	4h	361/374 (96%)	361 (100%)	0	100	100
18	5b	361/374 (96%)	361 (100%)	0	100	100
18	5d	361/374 (96%)	361 (100%)	0	100	100
18	5f	361/374 (96%)	358 (99%)	3 (1%)	73	77
18	5h	361/374 (96%)	361 (100%)	0	100	100
18	6b	361/374 (96%)	361 (100%)	0	100	100
18	6d	361/374 (96%)	361 (100%)	0	100	100
18	6f	361/374 (96%)	360 (100%)	1 (0%)	86	83
18	6h	361/374 (96%)	361 (100%)	0	100	100
18	7b	361/374 (96%)	361 (100%)	0	100	100
18	7d	361/374 (96%)	361 (100%)	0	100	100
18	7f	361/374 (96%)	361 (100%)	0	100	100
18	7h	361/374 (96%)	361 (100%)	0	100	100
18	8b	361/374 (96%)	361 (100%)	0	100	100
18	8d	361/374 (96%)	361 (100%)	0	100	100
18	8f	361/374 (96%)	361 (100%)	0	100	100
18	8h	361/374 (96%)	361 (100%)	0	100	100
18	9b	361/374 (96%)	361 (100%)	0	100	100
18	9d	361/374 (96%)	361 (100%)	0	100	100
18	9f	361/374 (96%)	361 (100%)	0	100	100
18	9h	361/374 (96%)	360 (100%)	1 (0%)	86	83
18	Ab	361/374 (96%)	361 (100%)	0	100	100
18	Ad	361/374 (96%)	361 (100%)	0	100	100
18	Af	361/374 (96%)	361 (100%)	0	100	100
18	Ah	361/374 (96%)	361 (100%)	0	100	100
18	Bb	361/374 (96%)	361 (100%)	0	100	100
18	Bd	361/374 (96%)	361 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	Bf	361/374 (96%)	361 (100%)	0	100	100
18	Bh	361/374 (96%)	361 (100%)	0	100	100
18	Cb	361/374 (96%)	361 (100%)	0	100	100
18	Cd	361/374 (96%)	361 (100%)	0	100	100
18	Cf	361/374 (96%)	361 (100%)	0	100	100
18	Ch	361/374 (96%)	361 (100%)	0	100	100
18	Db	361/374 (96%)	361 (100%)	0	100	100
18	Dd	361/374 (96%)	361 (100%)	0	100	100
18	Df	361/374 (96%)	361 (100%)	0	100	100
18	Dh	361/374 (96%)	361 (100%)	0	100	100
All	All	46424/55144 (84%)	46388 (100%)	36 (0%)	87	87

All (36) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	0A	325	HIS
3	0I	289	ASN
12	0X	170	ASN
12	0Y	22	LEU
12	0Y	23	LYS
12	1A	23	LYS
14	1D	911	LEU
17	1a	247	ASN
17	1e	247	ASN
17	1g	247	ASN
17	2e	247	ASN
17	2g	247	ASN
17	4c	247	ASN
17	4e	247	ASN
18	5f	221	ARG
18	5f	223	THR
18	5f	224	TYR
17	5g	247	ASN
17	5g	325	GLU
17	6c	247	ASN
18	6f	128	ASN
17	6g	247	ASN
17	8c	247	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	8e	247	ASN
17	8g	247	ASN
17	9a	247	ASN
17	9c	247	ASN
17	9e	247	ASN
18	9h	50	ASN
17	Be	247	ASN
17	Cc	247	ASN
17	Ce	247	ASN
17	Cg	247	ASN
17	Da	247	ASN
17	De	247	ASN
17	Dg	247	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (581) such sidechains are listed below:

Mol	Chain	Res	Type
1	0A	110	ASN
1	0A	121	ASN
1	0A	295	ASN
1	0A	331	ASN
1	0A	432	HIS
1	0A	571	GLN
1	0B	295	ASN
1	0C	432	HIS
1	0C	571	GLN
1	0D	159	HIS
1	0D	183	HIS
1	0D	367	HIS
1	0D	456	ASN
1	0D	540	ASN
1	0D	571	GLN
2	0E	45	HIS
2	0E	70	ASN
2	0E	114	GLN
2	0F	128	GLN
2	0G	70	ASN
2	0G	108	GLN
2	0H	87	GLN
3	0I	474	GLN
3	0I	520	GLN
3	0J	194	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	0J	483	GLN
4	0K	148	GLN
4	0K	182	HIS
4	0K	201	ASN
4	0L	93	GLN
4	0L	148	GLN
4	0L	201	ASN
5	0M	99	GLN
5	0M	610	HIS
5	0N	99	GLN
5	0N	610	HIS
5	0N	663	GLN
6	0O	80	ASN
6	0P	36	GLN
6	0P	80	ASN
6	0P	143	ASN
7	0Q	46	ASN
7	0Q	56	HIS
7	0Q	323	GLN
7	0S	46	ASN
7	0S	56	HIS
7	0S	235	HIS
7	0S	323	GLN
7	0S	396	HIS
7	0S	407	GLN
7	0S	616	GLN
12	0X	34	ASN
12	0X	46	ASN
12	0X	92	GLN
12	0X	146	GLN
12	0X	319	ASN
12	0X	357	GLN
12	0Y	34	ASN
12	0Y	47	GLN
12	0Y	50	GLN
12	0Y	120	HIS
12	0Z	34	ASN
12	0Z	84	ASN
12	0Z	92	GLN
12	0Z	146	GLN
12	0Z	256	GLN
12	0Z	319	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	1A	136	HIS
13	1B	1133	ASN
13	1B	1323	GLN
13	1C	1323	GLN
13	1C	1376	ASN
13	1C	1496	HIS
13	1C	1518	ASN
14	1D	584	GLN
14	1D	1052	GLN
14	1E	584	GLN
14	1E	1013	GLN
14	1E	1052	GLN
14	1F	526	ASN
14	1F	948	ASN
14	1G	526	ASN
14	1G	548	GLN
14	1G	854	GLN
14	1G	948	ASN
17	1a	83	GLN
17	1a	89	ASN
17	1a	134	GLN
17	1a	256	ASN
18	1b	15	GLN
18	1b	28	HIS
18	1b	50	ASN
18	1b	91	GLN
18	1b	176	GLN
18	1b	226	ASN
17	1c	14	ASN
17	1c	99	ASN
17	1c	347	ASN
18	1d	50	ASN
18	1d	101	ASN
18	1d	226	ASN
18	1d	406	HIS
17	1e	14	ASN
17	1e	83	GLN
17	1e	227	HIS
17	1e	245	GLN
17	1e	256	ASN
17	1e	332	ASN
18	1f	28	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	1f	101	ASN
18	1f	176	GLN
18	1f	406	HIS
17	1g	14	ASN
17	1g	256	ASN
17	1g	337	ASN
18	1h	31	GLN
18	1h	50	ASN
18	1h	91	GLN
18	1h	101	ASN
18	1h	176	GLN
18	1h	283	HIS
18	1h	406	HIS
17	2a	11	GLN
17	2a	14	ASN
17	2a	134	GLN
17	2a	204	ASN
17	2a	298	ASN
17	2a	337	ASN
17	2a	375	GLN
18	2b	91	GLN
18	2b	226	ASN
18	2b	283	HIS
17	2c	191	GLN
17	2c	204	ASN
17	2c	337	ASN
18	2d	91	GLN
18	2d	406	HIS
17	2e	14	ASN
17	2e	247	ASN
17	2e	337	ASN
17	2e	347	ASN
18	2f	15	GLN
18	2f	61	HIS
18	2f	91	GLN
18	2f	101	ASN
18	2f	176	GLN
17	2g	256	ASN
17	2g	337	ASN
17	2g	347	ASN
18	2h	15	GLN
18	2h	28	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	2h	31	GLN
17	3a	256	ASN
18	3b	11	GLN
18	3b	15	GLN
18	3b	91	GLN
18	3b	176	GLN
18	3b	226	ASN
18	3b	285	GLN
17	3c	134	GLN
17	3c	204	ASN
17	3c	334	GLN
18	3d	31	GLN
18	3d	61	HIS
18	3d	176	GLN
17	3e	298	ASN
17	3e	329	GLN
17	3e	426	GLN
18	3f	28	HIS
18	3f	61	HIS
18	3f	91	GLN
18	3f	102	ASN
18	3f	226	ASN
18	3f	406	HIS
17	3g	11	GLN
17	3g	14	ASN
17	3g	190	HIS
17	3g	204	ASN
17	3g	245	GLN
17	3g	298	ASN
17	3g	347	ASN
18	3h	31	GLN
18	3h	101	ASN
18	3h	176	GLN
18	3h	226	ASN
18	3h	283	HIS
18	3h	393	HIS
17	4a	99	ASN
17	4a	131	GLN
17	4a	204	ASN
17	4a	337	ASN
18	4b	50	ASN
18	4b	101	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	4b	226	ASN
18	4b	258	ASN
17	4c	131	GLN
17	4c	247	ASN
17	4c	256	ASN
17	4c	337	ASN
18	4d	28	HIS
18	4d	61	HIS
18	4d	91	GLN
18	4d	197	HIS
17	4e	134	GLN
17	4e	337	ASN
18	4f	31	GLN
18	4f	85	GLN
18	4f	91	GLN
18	4f	101	ASN
18	4f	176	GLN
18	4f	226	ASN
18	4f	283	HIS
17	4g	94	GLN
17	4g	184	ASN
17	4g	204	ASN
17	4g	256	ASN
17	4g	337	ASN
17	4g	384	GLN
18	4h	31	GLN
18	4h	61	HIS
18	4h	176	GLN
18	4h	226	ASN
18	4h	285	GLN
18	4h	380	ASN
17	5a	14	ASN
17	5a	256	ASN
17	5a	291	GLN
17	5a	298	ASN
17	5a	337	ASN
17	5a	396	HIS
18	5b	31	GLN
18	5b	91	GLN
18	5b	226	ASN
18	5b	406	HIS
17	5c	14	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	5c	204	ASN
17	5c	298	ASN
17	5c	329	GLN
17	5c	332	ASN
17	5c	337	ASN
17	5c	375	GLN
17	5c	384	GLN
18	5d	31	GLN
18	5d	91	GLN
18	5d	226	ASN
18	5d	285	GLN
17	5e	14	ASN
17	5e	291	GLN
17	5e	298	ASN
17	5e	337	ASN
17	5e	426	GLN
18	5f	28	HIS
18	5f	91	GLN
18	5f	176	GLN
18	5f	226	ASN
17	5g	14	ASN
17	5g	89	ASN
17	5g	204	ASN
17	5g	291	GLN
17	5g	337	ASN
17	5g	426	GLN
18	5h	28	HIS
18	5h	91	GLN
18	5h	101	ASN
18	5h	226	ASN
18	5h	406	HIS
17	6a	137	HIS
17	6a	191	GLN
17	6a	195	ASN
17	6a	298	ASN
17	6a	329	GLN
17	6a	337	ASN
18	6b	91	GLN
18	6b	176	GLN
17	6c	14	ASN
17	6c	245	GLN
17	6c	332	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	6c	337	ASN
17	6c	347	ASN
18	6d	28	HIS
18	6d	91	GLN
17	6e	14	ASN
17	6e	337	ASN
17	6e	384	GLN
18	6f	91	GLN
18	6f	101	ASN
18	6f	128	ASN
17	6g	137	HIS
17	6g	195	ASN
17	6g	256	ASN
17	6g	347	ASN
18	6h	28	HIS
18	6h	91	GLN
18	6h	266	HIS
18	6h	342	GLN
17	7a	14	ASN
17	7a	131	GLN
17	7a	256	ASN
18	7b	406	HIS
17	7c	134	GLN
17	7c	204	ASN
17	7c	247	ASN
17	7c	329	GLN
17	7c	337	ASN
17	7c	375	GLN
17	7c	384	GLN
18	7d	101	ASN
18	7d	176	GLN
18	7d	266	HIS
17	7e	256	ASN
17	7e	329	GLN
17	7e	384	GLN
18	7f	28	HIS
18	7f	176	GLN
18	7f	406	HIS
17	7g	99	ASN
17	7g	396	HIS
18	7h	31	GLN
18	7h	50	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	7h	91	GLN
18	7h	101	ASN
18	7h	176	GLN
18	7h	380	ASN
18	7h	406	HIS
17	8a	14	ASN
17	8a	131	GLN
17	8a	256	ASN
17	8a	337	ASN
18	8b	91	GLN
18	8b	101	ASN
18	8b	226	ASN
18	8b	380	ASN
18	8b	406	HIS
17	8c	256	ASN
17	8c	298	ASN
17	8c	337	ASN
17	8c	375	GLN
17	8c	384	GLN
18	8d	15	GLN
18	8d	176	GLN
18	8d	226	ASN
18	8d	342	GLN
18	8d	406	HIS
17	8e	245	GLN
17	8e	247	ASN
17	8e	337	ASN
17	8e	384	GLN
18	8f	50	ASN
18	8f	88	HIS
18	8f	91	GLN
18	8f	101	ASN
18	8f	197	HIS
18	8f	380	ASN
17	8g	99	ASN
17	8g	204	ASN
17	8g	256	ASN
17	8g	347	ASN
17	8g	375	GLN
17	8g	426	GLN
18	8h	15	GLN
18	8h	88	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	8h	101	ASN
18	8h	197	HIS
17	9a	191	GLN
17	9a	204	ASN
17	9a	256	ASN
17	9a	298	ASN
17	9a	329	GLN
17	9a	334	GLN
17	9a	337	ASN
17	9a	347	ASN
18	9b	15	GLN
18	9b	91	GLN
18	9b	101	ASN
18	9b	283	HIS
18	9b	406	HIS
17	9c	14	ASN
17	9c	131	GLN
17	9c	134	GLN
17	9c	204	ASN
17	9c	247	ASN
17	9c	256	ASN
17	9c	337	ASN
18	9d	50	ASN
18	9d	61	HIS
18	9d	233	GLN
18	9d	285	GLN
17	9e	14	ASN
17	9e	94	GLN
17	9e	131	GLN
17	9e	134	GLN
17	9e	204	ASN
17	9e	298	ASN
17	9e	329	GLN
17	9e	334	GLN
17	9e	337	ASN
18	9f	15	GLN
18	9f	28	HIS
18	9f	91	GLN
18	9f	101	ASN
18	9f	197	HIS
18	9f	256	GLN
18	9f	329	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	9f	342	GLN
17	9g	191	GLN
17	9g	204	ASN
17	9g	256	ASN
17	9g	337	ASN
17	9g	347	ASN
18	9h	61	HIS
18	9h	91	GLN
18	9h	101	ASN
18	9h	197	HIS
18	9h	226	ASN
18	9h	258	ASN
17	Aa	99	ASN
17	Aa	131	GLN
17	Aa	298	ASN
17	Aa	337	ASN
17	Aa	426	GLN
18	Ab	15	GLN
18	Ab	31	GLN
18	Ab	101	ASN
18	Ab	176	GLN
18	Ab	226	ASN
18	Ab	258	ASN
18	Ab	406	HIS
17	Ac	14	ASN
17	Ac	99	ASN
17	Ac	256	ASN
17	Ac	337	ASN
18	Ad	31	GLN
18	Ad	101	ASN
18	Ad	406	HIS
17	Ae	99	ASN
17	Ae	204	ASN
17	Ae	256	ASN
17	Ae	298	ASN
17	Ae	337	ASN
17	Ae	347	ASN
17	Ae	426	GLN
18	Af	31	GLN
18	Af	226	ASN
18	Af	258	ASN
18	Af	393	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	Ag	14	ASN
17	Ag	298	ASN
17	Ag	337	ASN
18	Ah	31	GLN
18	Ah	91	GLN
18	Ah	226	ASN
18	Ah	406	HIS
17	Ba	8	GLN
17	Ba	14	ASN
17	Ba	134	GLN
17	Ba	204	ASN
17	Ba	256	ASN
17	Ba	337	ASN
17	Ba	347	ASN
17	Ba	424	GLN
17	Ba	426	GLN
18	Bb	28	HIS
18	Bb	31	GLN
18	Bb	50	ASN
18	Bb	91	GLN
18	Bb	101	ASN
17	Bc	14	ASN
17	Bc	134	GLN
17	Bc	195	ASN
17	Bc	256	ASN
17	Bc	332	ASN
17	Bc	337	ASN
17	Bc	348	ASN
17	Bc	416	ASN
17	Bc	426	GLN
18	Bd	28	HIS
18	Bd	31	GLN
18	Bd	176	GLN
18	Bd	249	ASN
17	Be	424	GLN
18	Bf	15	GLN
18	Bf	28	HIS
18	Bf	31	GLN
18	Bf	101	ASN
18	Bf	393	HIS
18	Bf	406	HIS
17	Bg	14	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	Bg	94	GLN
17	Bg	134	GLN
17	Bg	195	ASN
17	Bg	204	ASN
17	Bg	256	ASN
17	Bg	337	ASN
17	Bg	348	ASN
17	Bg	396	HIS
18	Bh	28	HIS
18	Bh	31	GLN
18	Bh	61	HIS
18	Bh	101	ASN
18	Bh	176	GLN
18	Bh	309	HIS
17	Ca	14	ASN
17	Ca	195	ASN
17	Ca	204	ASN
17	Ca	337	ASN
17	Ca	347	ASN
17	Ca	426	GLN
18	Cb	28	HIS
18	Cb	31	GLN
18	Cb	101	ASN
17	Cc	14	ASN
17	Cc	256	ASN
17	Cc	337	ASN
17	Cc	347	ASN
17	Cc	375	GLN
18	Cd	28	HIS
18	Cd	31	GLN
18	Cd	91	GLN
18	Cd	101	ASN
17	Ce	14	ASN
17	Ce	134	GLN
17	Ce	256	ASN
17	Ce	337	ASN
17	Ce	347	ASN
17	Ce	424	GLN
17	Ce	426	GLN
18	Cf	28	HIS
18	Cf	61	HIS
18	Cf	91	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	Cg	94	GLN
17	Cg	279	GLN
17	Cg	329	GLN
17	Cg	337	ASN
17	Cg	396	HIS
18	Ch	15	GLN
18	Ch	28	HIS
18	Ch	31	GLN
18	Ch	197	HIS
18	Ch	226	ASN
18	Ch	393	HIS
17	Da	14	ASN
17	Da	134	GLN
17	Da	195	ASN
17	Da	247	ASN
17	Da	329	GLN
17	Da	332	ASN
18	Db	28	HIS
18	Db	101	ASN
18	Db	197	HIS
18	Db	249	ASN
18	Db	258	ASN
18	Db	342	GLN
17	Dc	14	ASN
17	Dc	134	GLN
17	Dc	191	GLN
17	Dc	256	ASN
17	Dc	291	GLN
18	Dd	28	HIS
18	Dd	50	ASN
18	Dd	91	GLN
18	Dd	101	ASN
18	Dd	256	GLN
18	Dd	283	HIS
17	De	134	GLN
17	De	256	ASN
17	De	298	ASN
18	Df	31	GLN
18	Df	50	ASN
18	Df	176	GLN
18	Df	380	ASN
17	Dg	134	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	Dg	298	ASN
17	Dg	329	GLN
17	Dg	347	ASN
17	Dg	426	GLN
18	Dh	11	GLN
18	Dh	28	HIS
18	Dh	50	ASN
18	Dh	61	HIS
18	Dh	91	GLN
18	Dh	176	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

108 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	$\# Z > 2$
20	GDP	8e	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	7 (15%)
21	GTP	9b	501	-	33,34,34	0.98	3 (9%)	50,54,54	1.61	9 (18%)
21	GTP	Df	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.59	10 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	GTP	7d	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.57	9 (18%)
20	GDP	3g	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
21	GTP	5b	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.58	9 (18%)
20	GDP	2a	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
20	GDP	4a	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
20	GDP	9g	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
21	GTP	9d	501	-	33,34,34	0.96	2 (6%)	50,54,54	1.61	9 (18%)
20	GDP	6c	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.74	7 (15%)
21	GTP	1h	501	-	33,34,34	0.97	2 (6%)	50,54,54	1.58	9 (18%)
21	GTP	6d	501	-	33,34,34	0.97	2 (6%)	50,54,54	1.59	10 (20%)
19	ADP	0Y	801	-	28,29,29	1.41	4 (14%)	43,45,45	1.82	9 (20%)
21	GTP	2b	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.59	8 (16%)
20	GDP	Bg	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
20	GDP	6g	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
21	GTP	6h	501	-	33,34,34	0.96	2 (6%)	50,54,54	1.57	8 (16%)
21	GTP	9f	501	-	33,34,34	0.99	3 (9%)	50,54,54	1.61	10 (20%)
19	ADP	0X	801	-	28,29,29	1.39	4 (14%)	43,45,45	1.81	8 (18%)
21	GTP	Ad	501	-	33,34,34	0.97	2 (6%)	50,54,54	1.59	10 (20%)
20	GDP	Da	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
20	GDP	4e	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
20	GDP	8c	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	7 (15%)
20	GDP	6a	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	7 (15%)
21	GTP	4f	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.57	9 (18%)
21	GTP	4b	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.58	9 (18%)
21	GTP	4h	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.57	10 (20%)
21	GTP	3b	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.62	10 (20%)
21	GTP	2d	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.58	9 (18%)
20	GDP	De	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
20	GDP	4c	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
20	GDP	Ac	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
21	GTP	Bb	501	-	33,34,34	0.93	2 (6%)	50,54,54	1.59	9 (18%)
20	GDP	2e	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
20	GDP	Ca	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	7 (15%)
21	GTP	5h	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.60	9 (18%)
21	GTP	6b	501	-	33,34,34	0.96	2 (6%)	50,54,54	1.58	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
20	GDP	1c	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
20	GDP	7c	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
20	GDP	5e	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
21	GTP	1d	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.59	9 (18%)
21	GTP	Db	501	-	33,34,34	0.95	2 (6%)	50,54,54	1.58	10 (20%)
21	GTP	5d	501	-	33,34,34	0.97	2 (6%)	50,54,54	1.58	10 (20%)
20	GDP	5c	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	7 (15%)
21	GTP	Ah	501	-	33,34,34	0.96	2 (6%)	50,54,54	1.58	9 (18%)
21	GTP	2h	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.56	9 (18%)
21	GTP	Cb	501	-	33,34,34	0.97	2 (6%)	50,54,54	1.58	10 (20%)
20	GDP	Ba	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
21	GTP	3d	501	-	33,34,34	0.96	2 (6%)	50,54,54	1.59	10 (20%)
21	GTP	Ab	501	-	33,34,34	0.95	2 (6%)	50,54,54	1.59	10 (20%)
20	GDP	Dc	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
20	GDP	1e	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
20	GDP	6e	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
20	GDP	7e	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	6 (13%)
19	ADP	1A	801	-	28,29,29	1.41	4 (14%)	43,45,45	1.82	9 (20%)
20	GDP	9a	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
20	GDP	1g	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.72	7 (15%)
20	GDP	3a	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
19	ADP	0Z	801	-	28,29,29	1.39	4 (14%)	43,45,45	1.81	8 (18%)
20	GDP	1a	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
21	GTP	9h	501	-	33,34,34	0.95	2 (6%)	50,54,54	1.61	8 (16%)
20	GDP	Ae	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
21	GTP	Cf	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.58	9 (18%)
21	GTP	2f	501	-	33,34,34	0.96	2 (6%)	50,54,54	1.59	10 (20%)
21	GTP	7b	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.57	9 (18%)
20	GDP	2c	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
20	GDP	Aa	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.76	7 (15%)
20	GDP	7g	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
21	GTP	6f	501	-	33,34,34	0.96	2 (6%)	50,54,54	1.57	8 (16%)
20	GDP	2g	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
20	GDP	3e	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
21	GTP	Bf	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.60	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	GTP	Cd	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.62	9 (18%)
20	GDP	9e	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	6 (13%)
21	GTP	1f	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.59	9 (18%)
21	GTP	Ch	501	-	33,34,34	0.96	2 (6%)	50,54,54	1.61	10 (20%)
21	GTP	5f	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.58	9 (18%)
20	GDP	Cc	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.79	7 (15%)
21	GTP	Af	501	-	33,34,34	0.96	2 (6%)	50,54,54	1.60	10 (20%)
20	GDP	Cg	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
21	GTP	7h	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.58	9 (18%)
20	GDP	8a	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
21	GTP	Dd	501	-	33,34,34	0.96	2 (6%)	50,54,54	1.59	9 (18%)
20	GDP	Bc	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
21	GTP	3f	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.58	10 (20%)
21	GTP	3h	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.55	10 (20%)
21	GTP	8f	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.56	8 (16%)
20	GDP	3c	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
21	GTP	1b	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.57	9 (18%)
20	GDP	5a	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.80	7 (15%)
21	GTP	Bh	501	-	33,34,34	1.01	3 (9%)	50,54,54	1.59	9 (18%)
20	GDP	Ag	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
20	GDP	Dg	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
20	GDP	4g	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
21	GTP	Bd	501	-	33,34,34	1.01	3 (9%)	50,54,54	1.61	10 (20%)
21	GTP	8b	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.59	10 (20%)
20	GDP	7a	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
21	GTP	8h	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.57	9 (18%)
21	GTP	7f	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.57	8 (16%)
21	GTP	4d	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.60	8 (16%)
20	GDP	5g	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.79	7 (15%)
21	GTP	Dh	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.60	9 (18%)
20	GDP	Be	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
20	GDP	8g	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
20	GDP	9c	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.77	7 (15%)
20	GDP	Ce	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
21	GTP	8d	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.59	10 (20%)

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
20	GDP	8e	501	-	-	3/16/32/32	0/3/3/3
21	GTP	9b	501	-	-	3/22/38/38	0/3/3/3
21	GTP	Df	501	-	-	3/22/38/38	0/3/3/3
21	GTP	7d	501	-	-	3/22/38/38	0/3/3/3
20	GDP	3g	501	-	-	3/16/32/32	0/3/3/3
21	GTP	5b	501	-	-	3/22/38/38	0/3/3/3
20	GDP	2a	501	-	-	3/16/32/32	0/3/3/3
20	GDP	4a	501	-	-	3/16/32/32	0/3/3/3
20	GDP	9g	501	-	-	3/16/32/32	0/3/3/3
21	GTP	9d	501	-	-	3/22/38/38	0/3/3/3
20	GDP	6c	501	-	-	3/16/32/32	0/3/3/3
21	GTP	1h	501	-	-	2/22/38/38	0/3/3/3
21	GTP	6d	501	-	-	3/22/38/38	0/3/3/3
19	ADP	0Y	801	-	-	9/16/32/32	0/3/3/3
21	GTP	2b	501	-	-	2/22/38/38	0/3/3/3
20	GDP	Bg	501	-	-	3/16/32/32	0/3/3/3
20	GDP	6g	501	-	-	3/16/32/32	0/3/3/3
21	GTP	6h	501	-	-	3/22/38/38	0/3/3/3
21	GTP	9f	501	-	-	3/22/38/38	0/3/3/3
19	ADP	0X	801	-	-	5/16/32/32	0/3/3/3
21	GTP	Ad	501	-	-	3/22/38/38	0/3/3/3
20	GDP	Da	501	-	-	3/16/32/32	0/3/3/3
20	GDP	4e	501	-	-	3/16/32/32	0/3/3/3
20	GDP	8c	501	-	-	3/16/32/32	0/3/3/3
20	GDP	6a	501	-	-	3/16/32/32	0/3/3/3
21	GTP	4f	501	-	-	3/22/38/38	0/3/3/3
21	GTP	4b	501	-	-	3/22/38/38	0/3/3/3
21	GTP	4h	501	-	-	2/22/38/38	0/3/3/3
21	GTP	3b	501	-	-	2/22/38/38	0/3/3/3
21	GTP	2d	501	-	-	3/22/38/38	0/3/3/3
20	GDP	De	501	-	-	3/16/32/32	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
20	GDP	4c	501	-	-	3/16/32/32	0/3/3/3
20	GDP	Ac	501	-	-	3/16/32/32	0/3/3/3
21	GTP	Bb	501	-	-	3/22/38/38	0/3/3/3
20	GDP	2e	501	-	-	3/16/32/32	0/3/3/3
20	GDP	Ca	501	-	-	3/16/32/32	0/3/3/3
21	GTP	5h	501	-	-	3/22/38/38	0/3/3/3
21	GTP	6b	501	-	-	3/22/38/38	0/3/3/3
20	GDP	1c	501	-	-	3/16/32/32	0/3/3/3
20	GDP	7c	501	-	-	3/16/32/32	0/3/3/3
20	GDP	5e	501	-	-	3/16/32/32	0/3/3/3
21	GTP	1d	501	-	-	2/22/38/38	0/3/3/3
21	GTP	Db	501	-	-	3/22/38/38	0/3/3/3
21	GTP	5d	501	-	-	3/22/38/38	0/3/3/3
20	GDP	5c	501	-	-	3/16/32/32	0/3/3/3
21	GTP	Ah	501	-	-	2/22/38/38	0/3/3/3
21	GTP	2h	501	-	-	2/22/38/38	0/3/3/3
21	GTP	Cb	501	-	-	3/22/38/38	0/3/3/3
20	GDP	Ba	501	-	-	3/16/32/32	0/3/3/3
21	GTP	3d	501	-	-	3/22/38/38	0/3/3/3
21	GTP	Ab	501	-	-	3/22/38/38	0/3/3/3
20	GDP	Dc	501	-	-	3/16/32/32	0/3/3/3
20	GDP	1e	501	-	-	3/16/32/32	0/3/3/3
20	GDP	6e	501	-	-	3/16/32/32	0/3/3/3
20	GDP	7e	501	-	-	3/16/32/32	0/3/3/3
19	ADP	1A	801	-	-	7/16/32/32	0/3/3/3
20	GDP	9a	501	-	-	3/16/32/32	0/3/3/3
20	GDP	1g	501	-	-	3/16/32/32	0/3/3/3
20	GDP	3a	501	-	-	3/16/32/32	0/3/3/3
19	ADP	0Z	801	-	-	5/16/32/32	0/3/3/3
20	GDP	1a	501	-	-	3/16/32/32	0/3/3/3
21	GTP	9h	501	-	-	3/22/38/38	0/3/3/3
20	GDP	Ae	501	-	-	3/16/32/32	0/3/3/3
21	GTP	Cf	501	-	-	3/22/38/38	0/3/3/3
21	GTP	2f	501	-	-	3/22/38/38	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	GTP	7b	501	-	-	3/22/38/38	0/3/3/3
20	GDP	2c	501	-	-	3/16/32/32	0/3/3/3
20	GDP	Aa	501	-	-	3/16/32/32	0/3/3/3
20	GDP	7g	501	-	-	3/16/32/32	0/3/3/3
21	GTP	6f	501	-	-	3/22/38/38	0/3/3/3
20	GDP	2g	501	-	-	3/16/32/32	0/3/3/3
20	GDP	3e	501	-	-	3/16/32/32	0/3/3/3
21	GTP	Bf	501	-	-	3/22/38/38	0/3/3/3
21	GTP	Cd	501	-	-	2/22/38/38	0/3/3/3
20	GDP	9e	501	-	-	3/16/32/32	0/3/3/3
21	GTP	1f	501	-	-	2/22/38/38	0/3/3/3
21	GTP	Ch	501	-	-	3/22/38/38	0/3/3/3
21	GTP	5f	501	-	-	3/22/38/38	0/3/3/3
20	GDP	Cc	501	-	-	3/16/32/32	0/3/3/3
21	GTP	Af	501	-	-	3/22/38/38	0/3/3/3
20	GDP	Cg	501	-	-	3/16/32/32	0/3/3/3
21	GTP	7h	501	-	-	3/22/38/38	0/3/3/3
20	GDP	8a	501	-	-	3/16/32/32	0/3/3/3
21	GTP	Dd	501	-	-	2/22/38/38	0/3/3/3
20	GDP	Bc	501	-	-	3/16/32/32	0/3/3/3
21	GTP	3f	501	-	-	3/22/38/38	0/3/3/3
21	GTP	3h	501	-	-	3/22/38/38	0/3/3/3
21	GTP	8f	501	-	-	3/22/38/38	0/3/3/3
20	GDP	3c	501	-	-	3/16/32/32	0/3/3/3
21	GTP	1b	501	-	-	3/22/38/38	0/3/3/3
20	GDP	5a	501	-	-	3/16/32/32	0/3/3/3
21	GTP	Bh	501	-	-	3/22/38/38	0/3/3/3
20	GDP	Ag	501	-	-	3/16/32/32	0/3/3/3
20	GDP	Dg	501	-	-	3/16/32/32	0/3/3/3
20	GDP	4g	501	-	-	3/16/32/32	0/3/3/3
21	GTP	Bd	501	-	-	2/22/38/38	0/3/3/3
21	GTP	8b	501	-	-	3/22/38/38	0/3/3/3
20	GDP	7a	501	-	-	3/16/32/32	0/3/3/3
21	GTP	8h	501	-	-	3/22/38/38	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	GTP	7f	501	-	-	2/22/38/38	0/3/3/3
21	GTP	4d	501	-	-	3/22/38/38	0/3/3/3
20	GDP	5g	501	-	-	2/16/32/32	0/3/3/3
21	GTP	Dh	501	-	-	2/22/38/38	0/3/3/3
20	GDP	Be	501	-	-	3/16/32/32	0/3/3/3
20	GDP	8g	501	-	-	3/16/32/32	0/3/3/3
20	GDP	9c	501	-	-	3/16/32/32	0/3/3/3
20	GDP	Ce	501	-	-	3/16/32/32	0/3/3/3
21	GTP	8d	501	-	-	3/22/38/38	0/3/3/3

All (253) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	1A	801	ADP	C5-C4	4.69	1.47	1.39
19	0Y	801	ADP	C5-C4	4.66	1.47	1.39
19	0Z	801	ADP	C5-C4	4.63	1.47	1.39
19	0X	801	ADP	C5-C4	4.62	1.47	1.39
20	5a	501	GDP	C5-C4	3.15	1.47	1.38
20	6a	501	GDP	C5-C4	3.14	1.47	1.38
20	7a	501	GDP	C5-C4	3.12	1.47	1.38
20	Ca	501	GDP	C5-C4	3.10	1.47	1.38
20	3a	501	GDP	C5-C4	3.10	1.47	1.38
20	7g	501	GDP	C5-C4	3.09	1.47	1.38
20	Ae	501	GDP	C5-C4	3.09	1.47	1.38
20	5c	501	GDP	C5-C4	3.08	1.47	1.38
20	4e	501	GDP	C5-C4	3.07	1.47	1.38
20	3e	501	GDP	C5-C4	3.07	1.47	1.38
20	5g	501	GDP	C5-C4	3.07	1.47	1.38
20	4a	501	GDP	C5-C4	3.06	1.47	1.38
20	1e	501	GDP	C5-C4	3.06	1.47	1.38
20	5e	501	GDP	C5-C4	3.05	1.47	1.38
20	Aa	501	GDP	C5-C4	3.05	1.47	1.38
20	6g	501	GDP	C5-C4	3.05	1.47	1.38
20	Cg	501	GDP	C5-C4	3.05	1.47	1.38
20	6c	501	GDP	C5-C4	3.05	1.47	1.38
20	1a	501	GDP	C5-C4	3.05	1.47	1.38
20	4g	501	GDP	C5-C4	3.04	1.47	1.38
20	8a	501	GDP	C5-C4	3.04	1.47	1.38
20	Ac	501	GDP	C5-C4	3.04	1.47	1.38
20	6e	501	GDP	C5-C4	3.04	1.47	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	7e	501	GDP	C5-C4	3.04	1.47	1.38
20	2c	501	GDP	C5-C4	3.04	1.47	1.38
20	8e	501	GDP	C5-C4	3.03	1.47	1.38
20	Cc	501	GDP	C5-C4	3.03	1.47	1.38
20	2a	501	GDP	C5-C4	3.03	1.47	1.38
20	3g	501	GDP	C5-C4	3.03	1.47	1.38
20	Ba	501	GDP	C5-C4	3.03	1.47	1.38
20	7c	501	GDP	C5-C4	3.03	1.47	1.38
20	2e	501	GDP	C5-C4	3.02	1.47	1.38
20	1c	501	GDP	C5-C4	3.02	1.47	1.38
20	Dg	501	GDP	C5-C4	3.02	1.47	1.38
20	3c	501	GDP	C5-C4	3.02	1.47	1.38
20	Ag	501	GDP	C5-C4	3.02	1.47	1.38
20	4c	501	GDP	C5-C4	3.01	1.47	1.38
20	8g	501	GDP	C5-C4	3.01	1.47	1.38
20	De	501	GDP	C5-C4	3.01	1.47	1.38
20	Da	501	GDP	C5-C4	3.01	1.47	1.38
20	Ce	501	GDP	C5-C4	2.99	1.47	1.38
20	1g	501	GDP	C5-C4	2.99	1.47	1.38
20	8c	501	GDP	C5-C4	2.99	1.46	1.38
20	Be	501	GDP	C5-C4	2.99	1.46	1.38
20	Dc	501	GDP	C5-C4	2.98	1.46	1.38
20	2g	501	GDP	C5-C4	2.97	1.46	1.38
20	9a	501	GDP	C5-C4	2.95	1.46	1.38
20	Bc	501	GDP	C5-C4	2.94	1.46	1.38
20	9g	501	GDP	C5-C4	2.92	1.46	1.38
20	9e	501	GDP	C5-C4	2.91	1.46	1.38
20	Bg	501	GDP	C5-C4	2.89	1.46	1.38
20	9c	501	GDP	C5-C4	2.85	1.46	1.38
19	1A	801	ADP	C5-C6	2.73	1.48	1.41
19	0Y	801	ADP	C5-C6	2.73	1.48	1.41
19	0Z	801	ADP	C5-C6	2.62	1.48	1.41
20	Bg	501	GDP	C6-N1	-2.62	1.33	1.38
19	0X	801	ADP	C5-C6	2.61	1.48	1.41
20	De	501	GDP	C6-N1	-2.61	1.34	1.38
20	9a	501	GDP	C6-N1	-2.60	1.34	1.38
20	9e	501	GDP	C6-N1	-2.60	1.34	1.38
20	Be	501	GDP	C6-N1	-2.60	1.34	1.38
20	9c	501	GDP	C6-N1	-2.59	1.34	1.38
20	Ce	501	GDP	C6-N1	-2.59	1.34	1.38
20	Da	501	GDP	C6-N1	-2.59	1.34	1.38
20	9g	501	GDP	C6-N1	-2.58	1.34	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	5a	501	GDP	C6-N1	-2.58	1.34	1.38
20	Cc	501	GDP	C6-N1	-2.57	1.34	1.38
20	Bc	501	GDP	C6-N1	-2.57	1.34	1.38
20	Cg	501	GDP	C6-N1	-2.56	1.34	1.38
20	Ag	501	GDP	C6-N1	-2.55	1.34	1.38
20	1e	501	GDP	C6-N1	-2.55	1.34	1.38
20	1a	501	GDP	C6-N1	-2.55	1.34	1.38
20	1c	501	GDP	C6-N1	-2.54	1.34	1.38
20	Ba	501	GDP	C6-N1	-2.54	1.34	1.38
20	Dg	501	GDP	C6-N1	-2.54	1.34	1.38
20	5c	501	GDP	C6-N1	-2.53	1.34	1.38
20	2g	501	GDP	C6-N1	-2.53	1.34	1.38
20	2a	501	GDP	C6-N1	-2.53	1.34	1.38
20	Dc	501	GDP	C6-N1	-2.53	1.34	1.38
20	5e	501	GDP	C6-N1	-2.53	1.34	1.38
20	2e	501	GDP	C6-N1	-2.52	1.34	1.38
20	8a	501	GDP	C6-N1	-2.52	1.34	1.38
20	3e	501	GDP	C6-N1	-2.52	1.34	1.38
20	4a	501	GDP	C6-N1	-2.52	1.34	1.38
20	4c	501	GDP	C6-N1	-2.51	1.34	1.38
20	6g	501	GDP	C6-N1	-2.51	1.34	1.38
20	Ae	501	GDP	C6-N1	-2.50	1.34	1.38
20	4g	501	GDP	C6-N1	-2.50	1.34	1.38
20	7c	501	GDP	C6-N1	-2.50	1.34	1.38
20	Aa	501	GDP	C6-N1	-2.50	1.34	1.38
20	3g	501	GDP	C6-N1	-2.49	1.34	1.38
20	Ac	501	GDP	C6-N1	-2.49	1.34	1.38
20	3a	501	GDP	C6-N1	-2.49	1.34	1.38
20	1g	501	GDP	C6-N1	-2.48	1.34	1.38
20	6a	501	GDP	C6-N1	-2.48	1.34	1.38
20	4e	501	GDP	C6-N1	-2.47	1.34	1.38
20	Ca	501	GDP	C6-N1	-2.47	1.34	1.38
20	3c	501	GDP	C6-N1	-2.47	1.34	1.38
20	2c	501	GDP	C6-N1	-2.47	1.34	1.38
20	7g	501	GDP	C6-N1	-2.45	1.34	1.38
20	5g	501	GDP	C6-N1	-2.45	1.34	1.38
20	8c	501	GDP	C6-N1	-2.44	1.34	1.38
20	8g	501	GDP	C6-N1	-2.43	1.34	1.38
20	6e	501	GDP	C6-N1	-2.42	1.34	1.38
20	7e	501	GDP	C6-N1	-2.42	1.34	1.38
20	8e	501	GDP	C6-N1	-2.42	1.34	1.38
20	7a	501	GDP	C6-N1	-2.42	1.34	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	0Z	801	ADP	C5-N7	-2.41	1.34	1.39
19	0X	801	ADP	C5-N7	-2.41	1.34	1.39
21	Bh	501	GTP	PB-O3A	2.40	1.62	1.59
20	6c	501	GDP	C6-N1	-2.38	1.34	1.38
21	Bd	501	GTP	PB-O3A	2.35	1.62	1.59
19	1A	801	ADP	C5-N7	-2.30	1.34	1.39
19	0Y	801	ADP	C8-N7	2.30	1.36	1.31
19	1A	801	ADP	C8-N7	2.29	1.36	1.31
19	0X	801	ADP	C8-N7	2.28	1.36	1.31
19	0Z	801	ADP	C8-N7	2.27	1.36	1.31
19	0Y	801	ADP	C5-N7	-2.26	1.35	1.39
21	6d	501	GTP	C2-N3	2.25	1.38	1.33
21	1h	501	GTP	PB-O3A	2.24	1.61	1.59
21	5h	501	GTP	C2-N3	2.24	1.38	1.33
21	5d	501	GTP	C2-N3	2.22	1.38	1.33
21	Ad	501	GTP	C2-N3	2.21	1.38	1.33
21	6h	501	GTP	C2-N3	2.21	1.38	1.33
21	3b	501	GTP	C2-N3	2.21	1.38	1.33
21	Af	501	GTP	C2-N3	2.20	1.38	1.33
20	Bc	501	GDP	C5-N7	-2.20	1.34	1.39
20	9g	501	GDP	C5-N7	-2.20	1.34	1.39
21	5b	501	GTP	C2-N3	2.19	1.38	1.33
20	9a	501	GDP	C5-N7	-2.19	1.34	1.39
21	Ab	501	GTP	C2-N3	2.19	1.38	1.33
21	4d	501	GTP	C2-N3	2.18	1.38	1.33
21	6f	501	GTP	C2-N3	2.18	1.38	1.33
21	4h	501	GTP	C2-N3	2.18	1.38	1.33
21	Ch	501	GTP	C2-N3	2.18	1.38	1.33
21	7d	501	GTP	C2-N3	2.18	1.38	1.33
21	5f	501	GTP	C2-N3	2.18	1.38	1.33
20	9e	501	GDP	C5-N7	-2.17	1.34	1.39
20	1e	501	GDP	C5-N7	-2.17	1.34	1.39
21	7h	501	GTP	C2-N3	2.17	1.38	1.33
21	9f	501	GTP	PB-O3A	2.17	1.61	1.59
20	Cc	501	GDP	C5-N7	-2.17	1.34	1.39
21	5h	501	GTP	PB-O3A	2.16	1.61	1.59
21	Ah	501	GTP	C2-N3	2.16	1.38	1.33
20	2a	501	GDP	C5-N7	-2.16	1.34	1.39
21	6b	501	GTP	C2-N3	2.16	1.38	1.33
21	3f	501	GTP	C2-N3	2.16	1.38	1.33
20	1g	501	GDP	C5-N7	-2.16	1.34	1.39
21	1f	501	GTP	PB-O3A	2.15	1.61	1.59

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	Cd	501	GTP	C2-N3	2.15	1.38	1.33
20	Bg	501	GDP	C5-N7	-2.15	1.34	1.39
20	3g	501	GDP	C5-N7	-2.14	1.34	1.39
20	4g	501	GDP	C5-N7	-2.14	1.34	1.39
21	6d	501	GTP	PB-O3A	2.14	1.61	1.59
21	Dh	501	GTP	C2-N3	2.14	1.38	1.33
21	7b	501	GTP	C2-N3	2.14	1.38	1.33
21	Ad	501	GTP	PB-O3A	2.14	1.61	1.59
20	9c	501	GDP	C5-N7	-2.14	1.34	1.39
20	Dc	501	GDP	C5-N7	-2.14	1.34	1.39
20	Ag	501	GDP	C5-N7	-2.13	1.34	1.39
20	Be	501	GDP	C5-N7	-2.13	1.34	1.39
20	Da	501	GDP	C5-N7	-2.13	1.34	1.39
21	4b	501	GTP	C2-N3	2.13	1.38	1.33
21	9d	501	GTP	C2-N3	2.13	1.38	1.33
20	De	501	GDP	C5-N7	-2.13	1.34	1.39
20	Cg	501	GDP	C5-N7	-2.12	1.34	1.39
21	3d	501	GTP	C2-N3	2.12	1.38	1.33
21	1b	501	GTP	C2-N3	2.12	1.38	1.33
21	9h	501	GTP	C2-N3	2.12	1.38	1.33
20	3a	501	GDP	C5-N7	-2.12	1.34	1.39
21	1d	501	GTP	C2-N3	2.12	1.38	1.33
20	3e	501	GDP	C5-N7	-2.12	1.34	1.39
20	Dg	501	GDP	C5-N7	-2.12	1.34	1.39
20	1c	501	GDP	C5-N7	-2.11	1.34	1.39
21	4f	501	GTP	C2-N3	2.11	1.38	1.33
21	5d	501	GTP	PB-O3A	2.11	1.61	1.59
21	2f	501	GTP	C2-N3	2.11	1.38	1.33
21	1f	501	GTP	C2-N3	2.11	1.38	1.33
21	2b	501	GTP	C2-N3	2.11	1.38	1.33
20	4c	501	GDP	C5-N7	-2.10	1.34	1.39
20	4e	501	GDP	C5-N7	-2.10	1.34	1.39
20	2g	501	GDP	C5-N7	-2.10	1.34	1.39
20	Ce	501	GDP	C5-N7	-2.10	1.34	1.39
20	3c	501	GDP	C5-N7	-2.10	1.34	1.39
21	Bf	501	GTP	C2-N3	2.10	1.38	1.33
21	7f	501	GTP	C2-N3	2.09	1.38	1.33
21	Af	501	GTP	PB-O3A	2.09	1.61	1.59
20	8g	501	GDP	C5-N7	-2.09	1.34	1.39
20	1a	501	GDP	C5-N7	-2.09	1.34	1.39
20	2c	501	GDP	C5-N7	-2.09	1.34	1.39
20	Aa	501	GDP	C5-N7	-2.09	1.34	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2d	501	GTP	C2-N3	2.08	1.38	1.33
21	Cb	501	GTP	C2-N3	2.08	1.38	1.33
20	7c	501	GDP	C5-N7	-2.08	1.34	1.39
21	3h	501	GTP	C2-N3	2.08	1.38	1.33
21	Bh	501	GTP	C2-N3	2.08	1.38	1.33
21	Dd	501	GTP	C2-N3	2.08	1.38	1.33
21	Df	501	GTP	C2-N3	2.08	1.38	1.33
21	8b	501	GTP	C2-N3	2.08	1.38	1.33
20	Ac	501	GDP	C5-N7	-2.08	1.34	1.39
21	9f	501	GTP	C5-N7	-2.08	1.34	1.39
20	Ca	501	GDP	C5-N7	-2.07	1.34	1.39
20	5c	501	GDP	C5-N7	-2.07	1.34	1.39
20	6e	501	GDP	C5-N7	-2.07	1.34	1.39
21	6b	501	GTP	PB-O3A	2.07	1.61	1.59
20	6g	501	GDP	C5-N7	-2.07	1.34	1.39
21	9f	501	GTP	C2-N3	2.07	1.38	1.33
21	Db	501	GTP	C2-N3	2.07	1.38	1.33
21	Bd	501	GTP	C2-N3	2.07	1.38	1.33
20	Ae	501	GDP	C5-N7	-2.07	1.34	1.39
20	Ba	501	GDP	C5-N7	-2.07	1.34	1.39
21	9b	501	GTP	C2-N3	2.07	1.38	1.33
21	2h	501	GTP	C2-N3	2.06	1.38	1.33
20	8c	501	GDP	C5-N7	-2.06	1.34	1.39
20	2e	501	GDP	C5-N7	-2.06	1.34	1.39
20	8a	501	GDP	C5-N7	-2.06	1.34	1.39
21	Bd	501	GTP	C5-N7	-2.06	1.34	1.39
21	9b	501	GTP	PB-O3A	2.06	1.61	1.59
20	8e	501	GDP	C5-N7	-2.06	1.34	1.39
21	Bb	501	GTP	C2-N3	2.06	1.38	1.33
21	8h	501	GTP	C2-N3	2.06	1.38	1.33
20	7g	501	GDP	C5-N7	-2.06	1.34	1.39
20	4a	501	GDP	C5-N7	-2.06	1.35	1.39
20	7e	501	GDP	C5-N7	-2.06	1.35	1.39
21	Bh	501	GTP	C5-N7	-2.05	1.35	1.39
21	8d	501	GTP	C2-N3	2.05	1.38	1.33
21	Db	501	GTP	PB-O3A	2.05	1.61	1.59
21	Dd	501	GTP	PB-O3A	2.05	1.61	1.59
20	5a	501	GDP	C5-N7	-2.05	1.35	1.39
21	6f	501	GTP	PB-O3A	2.05	1.61	1.59
20	5g	501	GDP	C5-N7	-2.05	1.35	1.39
21	8f	501	GTP	C2-N3	2.04	1.38	1.33
20	6c	501	GDP	C5-N7	-2.04	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	9b	501	GTP	C5-N7	-2.04	1.35	1.39
21	Cb	501	GTP	PB-O3A	2.04	1.61	1.59
21	Ah	501	GTP	PB-O3A	2.04	1.61	1.59
21	Ch	501	GTP	PB-O3A	2.04	1.61	1.59
20	5e	501	GDP	C5-N7	-2.03	1.35	1.39
21	9h	501	GTP	C5-N7	-2.03	1.35	1.39
20	6a	501	GDP	C5-N7	-2.02	1.35	1.39
21	6h	501	GTP	PB-O3A	2.02	1.61	1.59
21	2f	501	GTP	PB-O3A	2.02	1.61	1.59
21	9d	501	GTP	C5-N7	-2.01	1.35	1.39
21	1h	501	GTP	C2-N3	2.01	1.38	1.33
21	3d	501	GTP	PB-O3A	2.01	1.61	1.59
20	7a	501	GDP	C5-N7	-2.01	1.35	1.39
21	Cf	501	GTP	C2-N3	2.00	1.38	1.33
21	Ab	501	GTP	PB-O3A	2.00	1.61	1.59
21	Bb	501	GTP	C5-N7	-2.00	1.35	1.39

All (876) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	5a	501	GDP	C5-C4-N3	-6.38	118.24	128.39
20	Cc	501	GDP	C5-C4-N3	-6.33	118.31	128.39
20	5c	501	GDP	C5-C4-N3	-6.26	118.42	128.39
20	5g	501	GDP	C5-C4-N3	-6.25	118.44	128.39
20	6a	501	GDP	C5-C4-N3	-6.24	118.46	128.39
20	Be	501	GDP	C5-C4-N3	-6.21	118.51	128.39
20	3e	501	GDP	C5-C4-N3	-6.18	118.56	128.39
20	7a	501	GDP	C5-C4-N3	-6.18	118.56	128.39
20	3a	501	GDP	C5-C4-N3	-6.18	118.56	128.39
20	6e	501	GDP	C5-C4-N3	-6.17	118.56	128.39
20	Bc	501	GDP	C5-C4-N3	-6.17	118.57	128.39
20	Ca	501	GDP	C5-C4-N3	-6.17	118.57	128.39
20	5e	501	GDP	C5-C4-N3	-6.17	118.58	128.39
20	1e	501	GDP	C5-C4-N3	-6.16	118.58	128.39
20	4e	501	GDP	C5-C4-N3	-6.15	118.61	128.39
20	9a	501	GDP	C5-C4-N3	-6.15	118.61	128.39
20	De	501	GDP	C5-C4-N3	-6.14	118.61	128.39
20	Aa	501	GDP	C5-C4-N3	-6.14	118.62	128.39
20	Da	501	GDP	C5-C4-N3	-6.13	118.63	128.39
20	Ba	501	GDP	C5-C4-N3	-6.13	118.64	128.39
20	3c	501	GDP	C5-C4-N3	-6.12	118.64	128.39
20	6g	501	GDP	C5-C4-N3	-6.11	118.66	128.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	Ae	501	GDP	C5-C4-N3	-6.11	118.66	128.39
20	Ag	501	GDP	C5-C4-N3	-6.11	118.66	128.39
20	9g	501	GDP	C5-C4-N3	-6.10	118.67	128.39
20	Ce	501	GDP	C5-C4-N3	-6.10	118.68	128.39
20	4g	501	GDP	C5-C4-N3	-6.10	118.68	128.39
20	4a	501	GDP	C5-C4-N3	-6.09	118.69	128.39
20	4c	501	GDP	C5-C4-N3	-6.09	118.70	128.39
20	8a	501	GDP	C5-C4-N3	-6.08	118.71	128.39
20	Cg	501	GDP	C5-C4-N3	-6.08	118.71	128.39
20	9e	501	GDP	C5-C4-N3	-6.07	118.72	128.39
20	7c	501	GDP	C5-C4-N3	-6.07	118.73	128.39
20	Bg	501	GDP	C5-C4-N3	-6.06	118.75	128.39
20	Ac	501	GDP	C5-C4-N3	-6.06	118.75	128.39
20	2a	501	GDP	C5-C4-N3	-6.05	118.77	128.39
20	2g	501	GDP	C5-C4-N3	-6.05	118.77	128.39
20	1c	501	GDP	C5-C4-N3	-6.04	118.78	128.39
20	Dg	501	GDP	C5-C4-N3	-6.04	118.78	128.39
20	9c	501	GDP	C5-C4-N3	-6.04	118.78	128.39
20	7e	501	GDP	C5-C4-N3	-6.04	118.78	128.39
20	Dc	501	GDP	C5-C4-N3	-6.03	118.80	128.39
20	1a	501	GDP	C5-C4-N3	-6.02	118.80	128.39
20	3g	501	GDP	C5-C4-N3	-6.01	118.83	128.39
20	7g	501	GDP	C5-C4-N3	-6.00	118.84	128.39
20	6c	501	GDP	C5-C4-N3	-5.99	118.85	128.39
20	2e	501	GDP	C5-C4-N3	-5.98	118.87	128.39
20	8g	501	GDP	C5-C4-N3	-5.97	118.88	128.39
20	8c	501	GDP	C5-C4-N3	-5.97	118.89	128.39
20	2c	501	GDP	C5-C4-N3	-5.96	118.91	128.39
20	8e	501	GDP	C5-C4-N3	-5.96	118.91	128.39
19	0Y	801	ADP	C5-C4-N3	-5.91	118.58	126.72
20	1g	501	GDP	C5-C4-N3	-5.87	119.05	128.39
19	1A	801	ADP	C5-C4-N3	-5.84	118.68	126.72
19	0Z	801	ADP	C5-C4-N3	-5.77	118.78	126.72
19	0X	801	ADP	C5-C4-N3	-5.73	118.82	126.72
21	Cd	501	GTP	C5-C4-N3	-5.25	120.03	128.39
21	6d	501	GTP	C5-C4-N3	-5.25	120.04	128.39
21	5h	501	GTP	C5-C4-N3	-5.24	120.05	128.39
21	Ch	501	GTP	C5-C4-N3	-5.21	120.10	128.39
21	Dh	501	GTP	C5-C4-N3	-5.21	120.10	128.39
21	5d	501	GTP	C5-C4-N3	-5.21	120.10	128.39
21	3b	501	GTP	C5-C4-N3	-5.20	120.11	128.39
21	6b	501	GTP	C5-C4-N3	-5.19	120.12	128.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	Bd	501	GTP	C5-C4-N3	-5.17	120.16	128.39
21	4d	501	GTP	C5-C4-N3	-5.17	120.16	128.39
21	6f	501	GTP	C5-C4-N3	-5.16	120.18	128.39
21	Ab	501	GTP	C5-C4-N3	-5.15	120.19	128.39
21	2f	501	GTP	C5-C4-N3	-5.15	120.20	128.39
21	5b	501	GTP	C5-C4-N3	-5.15	120.20	128.39
21	1f	501	GTP	C5-C4-N3	-5.14	120.20	128.39
21	9d	501	GTP	C5-C4-N3	-5.14	120.20	128.39
21	3d	501	GTP	C5-C4-N3	-5.14	120.21	128.39
21	Dd	501	GTP	C5-C4-N3	-5.14	120.22	128.39
21	Ad	501	GTP	C5-C4-N3	-5.12	120.23	128.39
21	9h	501	GTP	C5-C4-N3	-5.12	120.24	128.39
21	7h	501	GTP	C5-C4-N3	-5.12	120.25	128.39
20	Cc	501	GDP	C2-N3-C4	5.11	121.11	112.30
21	Af	501	GTP	C5-C4-N3	-5.11	120.25	128.39
20	6a	501	GDP	C2-N3-C4	5.11	121.10	112.30
21	Ah	501	GTP	C5-C4-N3	-5.11	120.26	128.39
20	Bc	501	GDP	C2-N3-C4	5.10	121.09	112.30
21	6h	501	GTP	C5-C4-N3	-5.10	120.27	128.39
21	5f	501	GTP	C5-C4-N3	-5.10	120.28	128.39
21	1d	501	GTP	C5-C4-N3	-5.09	120.28	128.39
20	5g	501	GDP	C2-N3-C4	5.09	121.07	112.30
20	5a	501	GDP	C2-N3-C4	5.09	121.07	112.30
21	Bh	501	GTP	C5-C4-N3	-5.09	120.29	128.39
20	6e	501	GDP	C2-N3-C4	5.09	121.06	112.30
20	5c	501	GDP	C2-N3-C4	5.08	121.06	112.30
20	6g	501	GDP	C2-N3-C4	5.08	121.05	112.30
21	Bb	501	GTP	C5-C4-N3	-5.08	120.31	128.39
21	9b	501	GTP	C5-C4-N3	-5.08	120.31	128.39
20	9a	501	GDP	C2-N3-C4	5.07	121.04	112.30
21	9f	501	GTP	C5-C4-N3	-5.07	120.32	128.39
21	2b	501	GTP	C5-C4-N3	-5.07	120.33	128.39
21	8d	501	GTP	C5-C4-N3	-5.06	120.33	128.39
21	7d	501	GTP	C5-C4-N3	-5.06	120.33	128.39
20	3c	501	GDP	C2-N3-C4	5.06	121.02	112.30
21	Cb	501	GTP	C5-C4-N3	-5.06	120.33	128.39
20	1e	501	GDP	C2-N3-C4	5.06	121.01	112.30
21	7b	501	GTP	C5-C4-N3	-5.06	120.34	128.39
20	Be	501	GDP	C2-N3-C4	5.06	121.01	112.30
21	4h	501	GTP	C5-C4-N3	-5.06	120.34	128.39
20	Ba	501	GDP	C2-N3-C4	5.06	121.01	112.30
21	4b	501	GTP	C5-C4-N3	-5.06	120.34	128.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	5e	501	GDP	C2-N3-C4	5.05	121.00	112.30
20	4c	501	GDP	C2-N3-C4	5.05	121.00	112.30
20	Ae	501	GDP	C2-N3-C4	5.05	121.00	112.30
20	9e	501	GDP	C2-N3-C4	5.05	120.99	112.30
21	Df	501	GTP	C5-C4-N3	-5.05	120.36	128.39
21	3f	501	GTP	C5-C4-N3	-5.04	120.36	128.39
20	7a	501	GDP	C2-N3-C4	5.04	120.98	112.30
20	9c	501	GDP	C2-N3-C4	5.04	120.98	112.30
20	8a	501	GDP	C2-N3-C4	5.04	120.98	112.30
20	3a	501	GDP	C2-N3-C4	5.04	120.98	112.30
20	Ac	501	GDP	C2-N3-C4	5.04	120.97	112.30
20	4e	501	GDP	C2-N3-C4	5.03	120.97	112.30
21	Bf	501	GTP	C5-C4-N3	-5.03	120.38	128.39
20	Bg	501	GDP	C2-N3-C4	5.03	120.96	112.30
21	2d	501	GTP	C5-C4-N3	-5.03	120.39	128.39
20	7e	501	GDP	C2-N3-C4	5.03	120.96	112.30
21	8b	501	GTP	C5-C4-N3	-5.03	120.39	128.39
20	Ca	501	GDP	C2-N3-C4	5.03	120.95	112.30
21	Cf	501	GTP	C5-C4-N3	-5.02	120.40	128.39
21	1b	501	GTP	C5-C4-N3	-5.02	120.40	128.39
20	9g	501	GDP	C2-N3-C4	5.02	120.94	112.30
20	4g	501	GDP	C2-N3-C4	5.02	120.94	112.30
20	7c	501	GDP	C2-N3-C4	5.01	120.93	112.30
20	3e	501	GDP	C2-N3-C4	5.01	120.93	112.30
20	4a	501	GDP	C2-N3-C4	5.01	120.93	112.30
20	Aa	501	GDP	C2-N3-C4	5.01	120.93	112.30
20	2g	501	GDP	C2-N3-C4	5.01	120.93	112.30
20	6c	501	GDP	C2-N3-C4	5.01	120.93	112.30
21	1h	501	GTP	C5-C4-N3	-5.01	120.42	128.39
20	Dg	501	GDP	C2-N3-C4	5.00	120.92	112.30
20	De	501	GDP	C2-N3-C4	5.00	120.91	112.30
20	8c	501	GDP	C2-N3-C4	5.00	120.91	112.30
21	7f	501	GTP	C5-C4-N3	-5.00	120.43	128.39
20	Da	501	GDP	C2-N3-C4	5.00	120.91	112.30
20	3g	501	GDP	C2-N3-C4	5.00	120.91	112.30
20	Ce	501	GDP	C2-N3-C4	5.00	120.91	112.30
20	Ag	501	GDP	C2-N3-C4	5.00	120.91	112.30
21	Db	501	GTP	C5-C4-N3	-4.99	120.44	128.39
20	1c	501	GDP	C2-N3-C4	4.98	120.89	112.30
20	2e	501	GDP	C2-N3-C4	4.98	120.88	112.30
20	2c	501	GDP	C2-N3-C4	4.98	120.87	112.30
20	8g	501	GDP	C2-N3-C4	4.98	120.87	112.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	2a	501	GDP	C2-N3-C4	4.98	120.87	112.30
20	8e	501	GDP	C2-N3-C4	4.97	120.87	112.30
20	Dc	501	GDP	C2-N3-C4	4.97	120.87	112.30
21	4f	501	GTP	C5-C4-N3	-4.97	120.48	128.39
20	Cg	501	GDP	C2-N3-C4	4.96	120.83	112.30
21	8h	501	GTP	C5-C4-N3	-4.95	120.51	128.39
20	1a	501	GDP	C2-N3-C4	4.95	120.83	112.30
20	7g	501	GDP	C2-N3-C4	4.94	120.81	112.30
20	1g	501	GDP	C2-N3-C4	4.92	120.78	112.30
21	8f	501	GTP	C5-C4-N3	-4.92	120.56	128.39
21	2h	501	GTP	C5-C4-N3	-4.90	120.59	128.39
21	3h	501	GTP	C5-C4-N3	-4.89	120.61	128.39
21	9h	501	GTP	C2-N3-C4	4.75	120.49	112.30
21	Bd	501	GTP	C2-N3-C4	4.74	120.46	112.30
21	9d	501	GTP	C2-N3-C4	4.74	120.46	112.30
21	Bh	501	GTP	C2-N3-C4	4.73	120.45	112.30
21	8b	501	GTP	C2-N3-C4	4.73	120.45	112.30
21	5h	501	GTP	C2-N3-C4	4.73	120.44	112.30
21	4d	501	GTP	C2-N3-C4	4.71	120.42	112.30
20	5a	501	GDP	N9-C4-N3	4.71	135.38	125.95
21	Bb	501	GTP	C2-N3-C4	4.71	120.40	112.30
21	Cd	501	GTP	C2-N3-C4	4.70	120.39	112.30
21	5f	501	GTP	C2-N3-C4	4.69	120.37	112.30
21	6d	501	GTP	C2-N3-C4	4.69	120.37	112.30
21	Dd	501	GTP	C2-N3-C4	4.68	120.36	112.30
21	6h	501	GTP	C2-N3-C4	4.68	120.36	112.30
21	Ab	501	GTP	C2-N3-C4	4.68	120.35	112.30
21	8d	501	GTP	C2-N3-C4	4.67	120.34	112.30
21	9f	501	GTP	C2-N3-C4	4.67	120.34	112.30
21	4b	501	GTP	C2-N3-C4	4.66	120.33	112.30
21	1h	501	GTP	C2-N3-C4	4.65	120.31	112.30
20	Cc	501	GDP	N9-C4-N3	4.65	135.25	125.95
21	2f	501	GTP	C2-N3-C4	4.65	120.31	112.30
21	3b	501	GTP	C2-N3-C4	4.65	120.30	112.30
21	Cf	501	GTP	C2-N3-C4	4.64	120.30	112.30
21	5d	501	GTP	C2-N3-C4	4.64	120.29	112.30
21	Ad	501	GTP	C2-N3-C4	4.64	120.29	112.30
19	0Z	801	ADP	N3-C4-N9	4.64	135.05	127.17
21	3d	501	GTP	C2-N3-C4	4.64	120.29	112.30
21	Ah	501	GTP	C2-N3-C4	4.64	120.29	112.30
21	6f	501	GTP	C2-N3-C4	4.63	120.28	112.30
21	Af	501	GTP	C2-N3-C4	4.63	120.28	112.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	2b	501	GTP	C2-N3-C4	4.63	120.28	112.30
21	1b	501	GTP	C2-N3-C4	4.63	120.27	112.30
21	5b	501	GTP	C2-N3-C4	4.63	120.27	112.30
21	Bf	501	GTP	C2-N3-C4	4.63	120.27	112.30
19	0Y	801	ADP	N3-C4-N9	4.63	135.04	127.17
21	6b	501	GTP	C2-N3-C4	4.63	120.27	112.30
21	1d	501	GTP	C2-N3-C4	4.63	120.27	112.30
21	3f	501	GTP	C2-N3-C4	4.63	120.27	112.30
21	Db	501	GTP	C2-N3-C4	4.62	120.26	112.30
21	Dh	501	GTP	C2-N3-C4	4.62	120.26	112.30
20	5c	501	GDP	N9-C4-N3	4.62	135.19	125.95
21	7h	501	GTP	C2-N3-C4	4.62	120.26	112.30
21	Ch	501	GTP	C2-N3-C4	4.61	120.24	112.30
21	4h	501	GTP	C2-N3-C4	4.61	120.24	112.30
21	9b	501	GTP	C2-N3-C4	4.61	120.24	112.30
21	Df	501	GTP	C2-N3-C4	4.61	120.24	112.30
21	7d	501	GTP	C2-N3-C4	4.61	120.24	112.30
21	8h	501	GTP	C2-N3-C4	4.61	120.24	112.30
21	Cb	501	GTP	C2-N3-C4	4.61	120.23	112.30
21	1f	501	GTP	C2-N3-C4	4.60	120.22	112.30
21	7b	501	GTP	C2-N3-C4	4.60	120.22	112.30
21	4f	501	GTP	C2-N3-C4	4.60	120.22	112.30
20	3e	501	GDP	N9-C4-N3	4.60	135.14	125.95
19	0X	801	ADP	N3-C4-N9	4.60	134.98	127.17
21	2d	501	GTP	C2-N3-C4	4.59	120.21	112.30
21	7f	501	GTP	C2-N3-C4	4.59	120.21	112.30
21	8f	501	GTP	C2-N3-C4	4.58	120.20	112.30
20	Cg	501	GDP	N9-C4-N3	4.58	135.12	125.95
19	1A	801	ADP	N3-C4-N9	4.58	134.96	127.17
20	3a	501	GDP	N9-C4-N3	4.58	135.10	125.95
20	6a	501	GDP	N9-C4-N3	4.57	135.10	125.95
20	2a	501	GDP	N9-C4-N3	4.56	135.08	125.95
20	De	501	GDP	N9-C4-N3	4.55	135.06	125.95
20	7a	501	GDP	N9-C4-N3	4.55	135.06	125.95
21	3h	501	GTP	C2-N3-C4	4.55	120.14	112.30
21	2h	501	GTP	C2-N3-C4	4.55	120.14	112.30
20	Ce	501	GDP	N9-C4-N3	4.55	135.05	125.95
20	1e	501	GDP	N9-C4-N3	4.55	135.05	125.95
20	Be	501	GDP	N9-C4-N3	4.54	135.03	125.95
20	Ca	501	GDP	N9-C4-N3	4.53	135.01	125.95
20	5g	501	GDP	N9-C4-N3	4.52	134.99	125.95
20	Ag	501	GDP	N9-C4-N3	4.52	134.98	125.95

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	4e	501	GDP	N9-C4-N3	4.51	134.97	125.95
20	4a	501	GDP	N9-C4-N3	4.50	134.96	125.95
20	6e	501	GDP	N9-C4-N3	4.50	134.96	125.95
20	2g	501	GDP	N9-C4-N3	4.50	134.94	125.95
20	Bc	501	GDP	N9-C4-N3	4.50	134.94	125.95
20	9g	501	GDP	N9-C4-N3	4.49	134.92	125.95
20	5e	501	GDP	N9-C4-N3	4.48	134.91	125.95
20	7g	501	GDP	N9-C4-N3	4.48	134.90	125.95
20	Ba	501	GDP	N9-C4-N3	4.46	134.88	125.95
20	Aa	501	GDP	N9-C4-N3	4.46	134.88	125.95
20	Da	501	GDP	N9-C4-N3	4.46	134.88	125.95
20	3c	501	GDP	N9-C4-N3	4.46	134.87	125.95
20	9e	501	GDP	N9-C4-N3	4.46	134.87	125.95
20	4g	501	GDP	N9-C4-N3	4.46	134.87	125.95
20	6g	501	GDP	N9-C4-N3	4.45	134.86	125.95
20	8a	501	GDP	N9-C4-N3	4.45	134.85	125.95
20	Ae	501	GDP	N9-C4-N3	4.44	134.84	125.95
20	1c	501	GDP	N9-C4-N3	4.43	134.81	125.95
20	Dc	501	GDP	N9-C4-N3	4.43	134.81	125.95
20	7c	501	GDP	N9-C4-N3	4.43	134.80	125.95
20	3g	501	GDP	N9-C4-N3	4.42	134.79	125.95
20	7e	501	GDP	N9-C4-N3	4.42	134.79	125.95
20	8g	501	GDP	N9-C4-N3	4.42	134.78	125.95
20	2c	501	GDP	N9-C4-N3	4.41	134.78	125.95
20	Bg	501	GDP	N9-C4-N3	4.41	134.78	125.95
20	4c	501	GDP	N9-C4-N3	4.40	134.75	125.95
20	Ac	501	GDP	N9-C4-N3	4.40	134.74	125.95
20	9a	501	GDP	N9-C4-N3	4.39	134.74	125.95
20	1a	501	GDP	N9-C4-N3	4.39	134.74	125.95
20	Dg	501	GDP	N9-C4-N3	4.39	134.73	125.95
20	2e	501	GDP	N9-C4-N3	4.38	134.72	125.95
20	6c	501	GDP	N9-C4-N3	4.38	134.71	125.95
20	1g	501	GDP	N9-C4-N3	4.38	134.71	125.95
20	8c	501	GDP	N9-C4-N3	4.37	134.68	125.95
20	8e	501	GDP	N9-C4-N3	4.36	134.66	125.95
20	9c	501	GDP	N9-C4-N3	4.31	134.58	125.95
19	0Y	801	ADP	C2-N3-C4	3.67	120.78	111.83
19	1A	801	ADP	C2-N3-C4	3.66	120.77	111.83
19	0Z	801	ADP	C2-N3-C4	3.61	120.66	111.83
19	0X	801	ADP	C2-N3-C4	3.61	120.64	111.83
19	0Y	801	ADP	C4-C5-N7	-3.54	106.53	110.58
19	1A	801	ADP	C4-C5-N7	-3.51	106.57	110.58

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	3b	501	GTP	N9-C4-N3	3.44	132.83	125.95
20	9c	501	GDP	C6-C5-N7	3.42	136.51	130.29
21	Cd	501	GTP	N9-C4-N3	3.38	132.72	125.95
21	6d	501	GTP	N9-C4-N3	3.38	132.72	125.95
21	Ch	501	GTP	N9-C4-N3	3.38	132.71	125.95
20	6g	501	GDP	C6-C5-N7	3.37	136.42	130.29
20	8e	501	GDP	C6-C5-N7	3.37	136.42	130.29
20	Bg	501	GDP	C6-C5-N7	3.36	136.41	130.29
20	8c	501	GDP	C6-C5-N7	3.36	136.41	130.29
20	Dg	501	GDP	C6-C5-N7	3.36	136.40	130.29
20	3c	501	GDP	C6-C5-N7	3.35	136.38	130.29
20	6c	501	GDP	C6-C5-N7	3.35	136.38	130.29
21	5d	501	GTP	N9-C4-N3	3.34	132.64	125.95
21	Af	501	GTP	N9-C4-N3	3.34	132.63	125.95
20	2e	501	GDP	C6-C5-N7	3.34	136.37	130.29
20	2c	501	GDP	C6-C5-N7	3.34	136.36	130.29
20	Ac	501	GDP	C6-C5-N7	3.33	136.36	130.29
20	8g	501	GDP	C6-C5-N7	3.33	136.35	130.29
19	0X	801	ADP	C4-C5-N7	-3.33	106.78	110.58
21	2f	501	GTP	N9-C4-N3	3.32	132.60	125.95
21	3d	501	GTP	N9-C4-N3	3.32	132.59	125.95
21	9h	501	GTP	N9-C4-N3	3.32	132.59	125.95
21	6b	501	GTP	N9-C4-N3	3.32	132.59	125.95
20	5g	501	GDP	C6-C5-N7	3.32	136.32	130.29
20	4c	501	GDP	C6-C5-N7	3.31	136.32	130.29
20	1c	501	GDP	C6-C5-N7	3.31	136.32	130.29
20	Ae	501	GDP	C6-C5-N7	3.31	136.32	130.29
20	6a	501	GDP	C6-C5-N7	3.31	136.31	130.29
21	4d	501	GTP	N9-C4-N3	3.31	132.57	125.95
21	7h	501	GTP	N9-C4-N3	3.30	132.56	125.95
21	Ad	501	GTP	N9-C4-N3	3.30	132.56	125.95
20	1a	501	GDP	C6-C5-N7	3.30	136.30	130.29
20	5e	501	GDP	C6-C5-N7	3.30	136.30	130.29
19	0Z	801	ADP	C4-C5-N7	-3.30	106.81	110.58
21	Ab	501	GTP	N9-C4-N3	3.30	132.55	125.95
20	Bc	501	GDP	C6-C5-N7	3.30	136.29	130.29
20	9a	501	GDP	C6-C5-N7	3.30	136.29	130.29
20	6e	501	GDP	C6-C5-N7	3.30	136.29	130.29
20	8a	501	GDP	C6-C5-N7	3.30	136.29	130.29
20	1g	501	GDP	C6-C5-N7	3.29	136.28	130.29
20	Ba	501	GDP	C6-C5-N7	3.29	136.28	130.29
21	5h	501	GTP	N9-C4-N3	3.29	132.54	125.95

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	7d	501	GTP	N9-C4-N3	3.29	132.53	125.95
21	Bd	501	GTP	N9-C4-N3	3.29	132.53	125.95
20	1e	501	GDP	C6-C5-N7	3.29	136.27	130.29
21	1f	501	GTP	N9-C4-N3	3.28	132.52	125.95
21	5b	501	GTP	N9-C4-N3	3.28	132.52	125.95
21	1d	501	GTP	N9-C4-N3	3.28	132.52	125.95
21	Bf	501	GTP	N9-C4-N3	3.28	132.51	125.95
20	7e	501	GDP	C6-C5-N7	3.28	136.26	130.29
21	6f	501	GTP	N9-C4-N3	3.28	132.51	125.95
21	9f	501	GTP	N9-C4-N3	3.28	132.51	125.95
20	7c	501	GDP	C6-C5-N7	3.28	136.25	130.29
20	9e	501	GDP	C6-C5-N7	3.27	136.24	130.29
21	Dh	501	GTP	N9-C4-N3	3.27	132.49	125.95
20	Dc	501	GDP	C6-C5-N7	3.27	136.23	130.29
20	3g	501	GDP	C6-C5-N7	3.27	136.23	130.29
20	7g	501	GDP	C6-C5-N7	3.26	136.22	130.29
20	4g	501	GDP	C6-C5-N7	3.26	136.22	130.29
21	Dd	501	GTP	N9-C4-N3	3.25	132.46	125.95
21	7b	501	GTP	N9-C4-N3	3.25	132.45	125.95
21	2b	501	GTP	N9-C4-N3	3.25	132.44	125.95
20	Da	501	GDP	C6-C5-N7	3.25	136.20	130.29
20	9g	501	GDP	C6-C5-N7	3.24	136.19	130.29
21	9d	501	GTP	N9-C4-N3	3.24	132.44	125.95
21	3f	501	GTP	N9-C4-N3	3.24	132.42	125.95
21	5f	501	GTP	N9-C4-N3	3.24	132.42	125.95
21	Ah	501	GTP	N9-C4-N3	3.23	132.42	125.95
20	2g	501	GDP	C6-C5-N7	3.23	136.17	130.29
20	7a	501	GDP	C6-C5-N7	3.23	136.17	130.29
20	4a	501	GDP	C6-C5-N7	3.23	136.17	130.29
21	9b	501	GTP	N9-C4-N3	3.23	132.41	125.95
20	Ca	501	GDP	C6-C5-N7	3.22	136.16	130.29
20	Ce	501	GDP	C6-C5-N7	3.22	136.16	130.29
20	4e	501	GDP	C6-C5-N7	3.22	136.14	130.29
20	Be	501	GDP	C6-C5-N7	3.21	136.13	130.29
20	Cc	501	GDP	C6-C5-N7	3.21	136.13	130.29
21	4h	501	GTP	N9-C4-N3	3.21	132.37	125.95
20	Ag	501	GDP	C6-C5-N7	3.21	136.12	130.29
20	De	501	GDP	C6-C5-N7	3.21	136.12	130.29
21	1b	501	GTP	N9-C4-N3	3.20	132.36	125.95
21	Cb	501	GTP	N9-C4-N3	3.20	132.36	125.95
21	Bb	501	GTP	N9-C4-N3	3.20	132.35	125.95
20	Aa	501	GDP	C6-C5-N7	3.19	136.10	130.29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	5c	501	GDP	C6-C5-N7	3.19	136.09	130.29
21	8b	501	GTP	N9-C4-N3	3.19	132.33	125.95
21	8d	501	GTP	N9-C4-N3	3.19	132.32	125.95
20	3a	501	GDP	C6-C5-N7	3.18	136.08	130.29
21	6h	501	GTP	N9-C4-N3	3.18	132.31	125.95
21	7f	501	GTP	N9-C4-N3	3.18	132.31	125.95
19	0X	801	ADP	N3-C2-N1	-3.18	123.77	128.58
21	Cf	501	GTP	N9-C4-N3	3.17	132.29	125.95
21	2d	501	GTP	N9-C4-N3	3.17	132.29	125.95
20	Cg	501	GDP	C6-C5-N7	3.17	136.05	130.29
21	4b	501	GTP	N9-C4-N3	3.16	132.28	125.95
21	Df	501	GTP	N9-C4-N3	3.16	132.27	125.95
19	0Z	801	ADP	N3-C2-N1	-3.15	123.81	128.58
21	2h	501	GTP	N9-C4-N3	3.15	132.25	125.95
20	3e	501	GDP	C6-C5-N7	3.15	136.02	130.29
20	5a	501	GDP	C6-C5-N7	3.15	136.02	130.29
21	4f	501	GTP	N9-C4-N3	3.14	132.23	125.95
20	2a	501	GDP	C6-C5-N7	3.14	136.00	130.29
21	8h	501	GTP	N9-C4-N3	3.14	132.22	125.95
21	Dh	501	GTP	C2-N1-C6	-3.12	119.46	125.11
21	Bd	501	GTP	C2-N1-C6	-3.10	119.48	125.11
21	Bh	501	GTP	N9-C4-N3	3.10	132.16	125.95
21	3h	501	GTP	N9-C4-N3	3.10	132.15	125.95
21	Cd	501	GTP	C2-N1-C6	-3.10	119.49	125.11
21	8f	501	GTP	N9-C4-N3	3.09	132.12	125.95
21	Db	501	GTP	N9-C4-N3	3.08	132.12	125.95
21	5h	501	GTP	C2-N1-C6	-3.08	119.53	125.11
19	1A	801	ADP	N3-C2-N1	-3.08	123.93	128.58
21	1f	501	GTP	C2-N1-C6	-3.07	119.55	125.11
21	1h	501	GTP	N9-C4-N3	3.07	132.09	125.95
21	3b	501	GTP	C2-N1-C6	-3.06	119.56	125.11
21	9d	501	GTP	C2-N1-C6	-3.06	119.57	125.11
21	3d	501	GTP	C2-N1-C6	-3.05	119.57	125.11
21	4d	501	GTP	C2-N1-C6	-3.05	119.58	125.11
21	6b	501	GTP	C2-N1-C6	-3.05	119.59	125.11
21	Ch	501	GTP	C2-N1-C6	-3.04	119.60	125.11
21	2f	501	GTP	C2-N1-C6	-3.04	119.60	125.11
21	Bh	501	GTP	C2-N1-C6	-3.04	119.61	125.11
21	Cb	501	GTP	C2-N1-C6	-3.04	119.61	125.11
21	Ab	501	GTP	C2-N1-C6	-3.03	119.61	125.11
21	Cf	501	GTP	C2-N1-C6	-3.03	119.61	125.11
19	0Y	801	ADP	N3-C2-N1	-3.03	124.00	128.58

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	3f	501	GTP	C2-N1-C6	-3.02	119.63	125.11
21	9f	501	GTP	C2-N1-C6	-3.02	119.63	125.11
21	Df	501	GTP	C2-N1-C6	-3.02	119.63	125.11
21	5b	501	GTP	C2-N1-C6	-3.02	119.63	125.11
21	2b	501	GTP	C2-N1-C6	-3.02	119.64	125.11
21	6d	501	GTP	C2-N1-C6	-3.02	119.64	125.11
21	4h	501	GTP	C2-N1-C6	-3.02	119.64	125.11
21	1d	501	GTP	C2-N1-C6	-3.02	119.64	125.11
21	5d	501	GTP	C2-N1-C6	-3.02	119.64	125.11
21	9b	501	GTP	C2-N1-C6	-3.01	119.64	125.11
21	Bb	501	GTP	C2-N1-C6	-3.01	119.65	125.11
21	Ah	501	GTP	C2-N1-C6	-3.01	119.66	125.11
21	Af	501	GTP	C2-N1-C6	-3.01	119.66	125.11
21	5f	501	GTP	C2-N1-C6	-3.00	119.67	125.11
21	6f	501	GTP	C2-N1-C6	-3.00	119.67	125.11
21	3h	501	GTP	C2-N1-C6	-3.00	119.68	125.11
21	4b	501	GTP	C2-N1-C6	-3.00	119.68	125.11
21	Dd	501	GTP	C2-N1-C6	-2.99	119.69	125.11
21	9h	501	GTP	C2-N1-C6	-2.99	119.69	125.11
21	Ad	501	GTP	C2-N1-C6	-2.98	119.70	125.11
21	7d	501	GTP	C2-N1-C6	-2.98	119.70	125.11
21	8d	501	GTP	C2-N1-C6	-2.98	119.70	125.11
21	2d	501	GTP	C2-N1-C6	-2.98	119.71	125.11
21	Bf	501	GTP	C2-N1-C6	-2.98	119.71	125.11
21	7h	501	GTP	C2-N1-C6	-2.96	119.74	125.11
21	4f	501	GTP	C2-N1-C6	-2.96	119.74	125.11
21	1b	501	GTP	C2-N1-C6	-2.96	119.75	125.11
21	Db	501	GTP	C2-N1-C6	-2.96	119.75	125.11
21	8b	501	GTP	C2-N1-C6	-2.96	119.75	125.11
21	7b	501	GTP	C2-N1-C6	-2.95	119.77	125.11
21	8h	501	GTP	C2-N1-C6	-2.95	119.77	125.11
21	7f	501	GTP	C2-N1-C6	-2.94	119.78	125.11
21	6h	501	GTP	C2-N1-C6	-2.93	119.80	125.11
21	1h	501	GTP	C2-N1-C6	-2.93	119.80	125.11
21	2h	501	GTP	C2-N1-C6	-2.92	119.82	125.11
21	8f	501	GTP	C2-N1-C6	-2.91	119.84	125.11
19	0Y	801	ADP	O4'-C1'-N9	2.78	113.42	108.09
21	Bf	501	GTP	N9-C8-N7	-2.75	108.30	113.40
19	1A	801	ADP	O4'-C1'-N9	2.74	113.35	108.09
20	9c	501	GDP	C4-C5-N7	-2.74	106.33	110.67
21	8f	501	GTP	N9-C8-N7	-2.73	108.34	113.40
20	5g	501	GDP	C4-C5-N7	-2.72	106.36	110.67

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	2h	501	GTP	N9-C8-N7	-2.70	108.40	113.40
21	7f	501	GTP	N9-C8-N7	-2.69	108.40	113.40
21	8b	501	GTP	N9-C8-N7	-2.69	108.40	113.40
19	0Z	801	ADP	C4-N9-C8	2.69	108.57	105.74
21	Bb	501	GTP	N9-C8-N7	-2.69	108.41	113.40
21	8h	501	GTP	N9-C8-N7	-2.69	108.41	113.40
21	2d	501	GTP	N9-C8-N7	-2.68	108.42	113.40
21	4b	501	GTP	N9-C8-N7	-2.68	108.42	113.40
21	4f	501	GTP	N9-C8-N7	-2.68	108.43	113.40
20	6a	501	GDP	C4-C5-N7	-2.67	106.43	110.67
20	6e	501	GDP	C4-C5-N7	-2.67	106.44	110.67
21	3h	501	GTP	N9-C8-N7	-2.67	108.45	113.40
20	Cc	501	GDP	C4-C5-N7	-2.67	106.44	110.67
21	2b	501	GTP	N9-C8-N7	-2.67	108.46	113.40
21	Ad	501	GTP	N9-C8-N7	-2.66	108.46	113.40
21	Db	501	GTP	N9-C8-N7	-2.66	108.47	113.40
20	6g	501	GDP	C4-C5-N7	-2.66	106.45	110.67
20	Ae	501	GDP	C4-C5-N7	-2.66	106.45	110.67
20	8e	501	GDP	C4-C5-N7	-2.66	106.46	110.67
20	3c	501	GDP	C4-C5-N7	-2.66	106.46	110.67
20	9a	501	GDP	C4-C5-N7	-2.66	106.46	110.67
21	Bh	501	GTP	C5-C6-N1	2.66	120.01	113.25
21	1h	501	GTP	N9-C8-N7	-2.66	108.48	113.40
21	3b	501	GTP	N9-C8-N7	-2.65	108.48	113.40
20	Bc	501	GDP	C4-C5-N7	-2.65	106.47	110.67
21	6h	501	GTP	N9-C8-N7	-2.65	108.48	113.40
20	5a	501	GDP	C4-C5-N7	-2.65	106.47	110.67
21	7d	501	GTP	N9-C8-N7	-2.65	108.48	113.40
21	Cf	501	GTP	N9-C8-N7	-2.65	108.49	113.40
20	5e	501	GDP	C4-C5-N7	-2.65	106.47	110.67
21	Bd	501	GTP	N9-C8-N7	-2.65	108.49	113.40
19	0X	801	ADP	C4-N9-C8	2.65	108.52	105.74
21	9f	501	GTP	N9-C8-N7	-2.65	108.49	113.40
21	Cb	501	GTP	N9-C8-N7	-2.65	108.50	113.40
21	7b	501	GTP	N9-C8-N7	-2.64	108.50	113.40
21	5h	501	GTP	C5-C6-N1	2.64	119.98	113.25
21	Ch	501	GTP	N9-C8-N7	-2.64	108.50	113.40
21	7h	501	GTP	N9-C8-N7	-2.64	108.50	113.40
21	2f	501	GTP	N9-C8-N7	-2.64	108.50	113.40
20	Bg	501	GDP	C4-C5-N7	-2.64	106.49	110.67
21	9d	501	GTP	C5-C6-N1	2.64	119.97	113.25
21	Af	501	GTP	N9-C8-N7	-2.64	108.51	113.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	Ac	501	GDP	C4-C5-N7	-2.63	106.50	110.67
20	8c	501	GDP	C4-C5-N7	-2.63	106.50	110.67
21	4d	501	GTP	N9-C8-N7	-2.63	108.52	113.40
21	5b	501	GTP	N9-C8-N7	-2.63	108.52	113.40
21	6f	501	GTP	N9-C8-N7	-2.63	108.52	113.40
21	8d	501	GTP	N9-C8-N7	-2.63	108.52	113.40
20	Dg	501	GDP	C4-C5-N7	-2.63	106.50	110.67
21	5h	501	GTP	N9-C8-N7	-2.63	108.53	113.40
21	6b	501	GTP	N9-C8-N7	-2.63	108.53	113.40
21	Bd	501	GTP	C5-C6-N1	2.63	119.94	113.25
21	9h	501	GTP	C5-C6-N1	2.63	119.94	113.25
21	2b	501	GTP	C5-C6-N1	2.62	119.93	113.25
21	Bb	501	GTP	C5-C6-N1	2.62	119.93	113.25
21	4d	501	GTP	C5-C6-N1	2.62	119.93	113.25
21	3b	501	GTP	C5-C6-N1	2.62	119.93	113.25
20	Da	501	GDP	C4-C5-N7	-2.62	106.52	110.67
21	5f	501	GTP	C5-C6-N1	2.62	119.92	113.25
20	Ba	501	GDP	C4-C5-N7	-2.62	106.52	110.67
21	4h	501	GTP	N9-C8-N7	-2.62	108.55	113.40
20	6c	501	GDP	C4-C5-N7	-2.61	106.53	110.67
21	9b	501	GTP	N9-C8-N7	-2.61	108.55	113.40
20	Be	501	GDP	C4-C5-N7	-2.61	106.53	110.67
20	4c	501	GDP	C4-C5-N7	-2.61	106.53	110.67
21	1b	501	GTP	N9-C8-N7	-2.61	108.56	113.40
21	1d	501	GTP	N9-C8-N7	-2.61	108.56	113.40
21	5d	501	GTP	N9-C8-N7	-2.61	108.56	113.40
21	3f	501	GTP	N9-C8-N7	-2.61	108.56	113.40
20	7a	501	GDP	C4-C5-N7	-2.61	106.54	110.67
21	Dd	501	GTP	N9-C8-N7	-2.61	108.56	113.40
20	1e	501	GDP	C4-C5-N7	-2.61	106.54	110.67
20	2e	501	GDP	C4-C5-N7	-2.61	106.54	110.67
20	9g	501	GDP	C4-C5-N7	-2.61	106.54	110.67
20	1a	501	GDP	C4-C5-N7	-2.61	106.54	110.67
21	Af	501	GTP	C5-C6-N1	2.60	119.88	113.25
20	7c	501	GDP	C4-C5-N7	-2.60	106.54	110.67
21	9d	501	GTP	N9-C8-N7	-2.60	108.57	113.40
21	6d	501	GTP	C5-C6-N1	2.60	119.88	113.25
21	2f	501	GTP	C5-C6-N1	2.60	119.87	113.25
21	9h	501	GTP	N9-C8-N7	-2.60	108.58	113.40
21	Ab	501	GTP	N9-C8-N7	-2.60	108.58	113.40
21	5b	501	GTP	C5-C6-N1	2.60	119.86	113.25
21	Cd	501	GTP	C5-C6-N1	2.60	119.86	113.25

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	Cd	501	GTP	N9-C8-N7	-2.60	108.59	113.40
21	3f	501	GTP	C5-C6-N1	2.60	119.86	113.25
21	Ab	501	GTP	C5-C6-N1	2.60	119.86	113.25
20	8g	501	GDP	C4-C5-N7	-2.59	106.56	110.67
21	4b	501	GTP	C5-C6-N1	2.59	119.85	113.25
21	Bh	501	GTP	N9-C8-N7	-2.59	108.59	113.40
21	6b	501	GTP	C5-C6-N1	2.59	119.85	113.25
21	Cb	501	GTP	C5-C6-N1	2.59	119.84	113.25
20	8a	501	GDP	C4-C5-N7	-2.59	106.57	110.67
20	Aa	501	GDP	C4-C5-N7	-2.59	106.57	110.67
19	0Y	801	ADP	C4-N9-C8	2.59	108.45	105.74
21	Df	501	GTP	N9-C8-N7	-2.59	108.60	113.40
21	9f	501	GTP	C5-C6-N1	2.59	119.84	113.25
21	7d	501	GTP	C5-C6-N1	2.59	119.83	113.25
21	8b	501	GTP	C5-C6-N1	2.58	119.83	113.25
21	4h	501	GTP	C5-C6-N1	2.58	119.83	113.25
21	1f	501	GTP	N9-C8-N7	-2.58	108.61	113.40
21	1d	501	GTP	C5-C6-N1	2.58	119.83	113.25
20	5c	501	GDP	C4-C5-N7	-2.58	106.58	110.67
21	Ah	501	GTP	C5-C6-N1	2.58	119.83	113.25
20	Ca	501	GDP	C4-C5-N7	-2.58	106.58	110.67
21	1f	501	GTP	C5-C6-N1	2.58	119.82	113.25
21	3d	501	GTP	C5-C6-N1	2.58	119.82	113.25
21	3d	501	GTP	N9-C8-N7	-2.58	108.62	113.40
21	Bf	501	GTP	C5-C6-N1	2.58	119.81	113.25
20	7e	501	GDP	C4-C5-N7	-2.58	106.59	110.67
21	Ch	501	GTP	C8-N7-C5	2.58	108.85	104.26
21	5f	501	GTP	N9-C8-N7	-2.57	108.63	113.40
21	6f	501	GTP	C8-N7-C5	2.57	108.85	104.26
20	4e	501	GDP	C4-C5-N7	-2.57	106.59	110.67
21	Bf	501	GTP	C8-N7-C5	2.57	108.84	104.26
20	4g	501	GDP	C4-C5-N7	-2.57	106.60	110.67
20	Dc	501	GDP	C4-C5-N7	-2.57	106.60	110.67
21	Db	501	GTP	C5-C6-N1	2.57	119.79	113.25
21	9f	501	GTP	O2B-PB-O3A	2.57	114.22	107.27
20	1c	501	GDP	C4-C5-N7	-2.57	106.60	110.67
21	6h	501	GTP	C8-N7-C5	2.57	108.83	104.26
19	1A	801	ADP	C4-N9-C8	2.57	108.43	105.74
21	5d	501	GTP	C5-C6-N1	2.57	119.78	113.25
21	Cf	501	GTP	C5-C6-N1	2.57	119.78	113.25
21	Dh	501	GTP	C5-C6-N1	2.57	119.78	113.25
21	8d	501	GTP	C5-C6-N1	2.56	119.77	113.25

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	4f	501	GTP	C5-C6-N1	2.56	119.77	113.25
21	6f	501	GTP	C5-C6-N1	2.56	119.77	113.25
21	Ad	501	GTP	C8-N7-C5	2.56	108.82	104.26
20	3e	501	GDP	C4-C5-N7	-2.56	106.62	110.67
21	Af	501	GTP	O6-C6-C5	-2.56	119.78	126.53
21	Df	501	GTP	C5-C6-N1	2.56	119.76	113.25
21	6d	501	GTP	N9-C8-N7	-2.56	108.66	113.40
21	6h	501	GTP	C5-C6-N1	2.56	119.76	113.25
21	Dd	501	GTP	C5-C6-N1	2.55	119.75	113.25
21	Ch	501	GTP	C5-C6-N1	2.55	119.75	113.25
21	1h	501	GTP	C8-N7-C5	2.55	108.81	104.26
20	3a	501	GDP	C4-C5-N7	-2.55	106.63	110.67
21	8b	501	GTP	C8-N7-C5	2.55	108.80	104.26
20	Ag	501	GDP	C4-C5-N7	-2.55	106.63	110.67
21	9b	501	GTP	C5-C6-N1	2.55	119.74	113.25
20	Ce	501	GDP	C4-C5-N7	-2.55	106.63	110.67
21	9b	501	GTP	O6-C6-C5	-2.55	119.80	126.53
21	5h	501	GTP	C8-N7-C5	2.55	108.80	104.26
20	7g	501	GDP	C4-C5-N7	-2.55	106.63	110.67
20	De	501	GDP	C4-C5-N7	-2.55	106.63	110.67
21	7h	501	GTP	C5-C6-N1	2.55	119.74	113.25
21	8h	501	GTP	C5-C6-N1	2.55	119.73	113.25
21	Dh	501	GTP	N9-C8-N7	-2.55	108.68	113.40
21	3h	501	GTP	C5-C6-N1	2.55	119.73	113.25
21	Ad	501	GTP	C5-C6-N1	2.54	119.73	113.25
20	3g	501	GDP	C4-C5-N7	-2.54	106.64	110.67
19	1A	801	ADP	C5-N7-C8	2.54	107.45	103.45
21	Bb	501	GTP	C8-N7-C5	2.54	108.78	104.26
21	1h	501	GTP	C5-C6-N1	2.54	119.72	113.25
21	1b	501	GTP	C5-C6-N1	2.54	119.72	113.25
20	4a	501	GDP	C4-C5-N7	-2.54	106.65	110.67
21	Bh	501	GTP	C8-N7-C5	2.54	108.78	104.26
21	4d	501	GTP	C8-N7-C5	2.54	108.78	104.26
20	2c	501	GDP	C4-C5-N7	-2.54	106.65	110.67
21	2d	501	GTP	C5-C6-N1	2.53	119.70	113.25
21	7b	501	GTP	C5-C6-N1	2.53	119.70	113.25
21	9d	501	GTP	O6-C6-C5	-2.53	119.85	126.53
21	Db	501	GTP	C8-N7-C5	2.53	108.77	104.26
21	Dd	501	GTP	C8-N7-C5	2.53	108.77	104.26
21	5d	501	GTP	C8-N7-C5	2.53	108.76	104.26
21	2h	501	GTP	C5-C6-N1	2.53	119.68	113.25
19	0Y	801	ADP	C5-N7-C8	2.53	107.42	103.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	2d	501	GTP	C8-N7-C5	2.53	108.76	104.26
21	8f	501	GTP	C8-N7-C5	2.53	108.76	104.26
21	7b	501	GTP	C8-N7-C5	2.52	108.76	104.26
21	Ah	501	GTP	N9-C8-N7	-2.52	108.72	113.40
21	3d	501	GTP	O6-C6-C5	-2.52	119.88	126.53
21	9h	501	GTP	O6-C6-C5	-2.52	119.88	126.53
21	Bd	501	GTP	C8-N7-C5	2.52	108.75	104.26
21	8f	501	GTP	C5-C6-N1	2.52	119.67	113.25
21	8d	501	GTP	C8-N7-C5	2.52	108.75	104.26
21	Cd	501	GTP	C8-N7-C5	2.52	108.75	104.26
21	3b	501	GTP	C8-N7-C5	2.52	108.74	104.26
21	6d	501	GTP	C8-N7-C5	2.52	108.74	104.26
21	7f	501	GTP	C5-C6-N1	2.51	119.65	113.25
21	6b	501	GTP	C8-N7-C5	2.51	108.74	104.26
21	9b	501	GTP	C8-N7-C5	2.51	108.74	104.26
20	9e	501	GDP	C4-C5-N7	-2.51	106.69	110.67
21	9f	501	GTP	O6-C6-C5	-2.51	119.90	126.53
21	Cb	501	GTP	C8-N7-C5	2.51	108.73	104.26
21	2b	501	GTP	O6-C6-C5	-2.51	119.91	126.53
20	2g	501	GDP	C4-C5-N7	-2.51	106.70	110.67
21	3b	501	GTP	O6-C6-C5	-2.51	119.92	126.53
21	Ab	501	GTP	O6-C6-C5	-2.51	119.92	126.53
21	4b	501	GTP	C8-N7-C5	2.50	108.72	104.26
21	8h	501	GTP	C8-N7-C5	2.50	108.72	104.26
21	9d	501	GTP	C8-N7-C5	2.50	108.72	104.26
21	7f	501	GTP	C8-N7-C5	2.50	108.72	104.26
21	3h	501	GTP	O6-C6-C5	-2.50	119.93	126.53
21	Ah	501	GTP	O6-C6-C5	-2.50	119.94	126.53
21	1f	501	GTP	C8-N7-C5	2.50	108.71	104.26
21	1f	501	GTP	O6-C6-C5	-2.50	119.95	126.53
21	5b	501	GTP	C8-N7-C5	2.49	108.70	104.26
20	1g	501	GDP	C4-C5-N7	-2.49	106.72	110.67
21	2f	501	GTP	C8-N7-C5	2.49	108.70	104.26
21	7h	501	GTP	C8-N7-C5	2.49	108.69	104.26
21	1b	501	GTP	O6-C6-C5	-2.49	119.97	126.53
21	Dh	501	GTP	C8-N7-C5	2.48	108.68	104.26
20	Cg	501	GDP	C4-C5-N7	-2.48	106.74	110.67
21	4f	501	GTP	C8-N7-C5	2.48	108.68	104.26
21	4h	501	GTP	C8-N7-C5	2.48	108.68	104.26
21	9h	501	GTP	C8-N7-C5	2.48	108.68	104.26
21	1b	501	GTP	C8-N7-C5	2.48	108.67	104.26
21	2b	501	GTP	C8-N7-C5	2.48	108.67	104.26

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	3f	501	GTP	O6-C6-C5	-2.47	120.00	126.53
21	Af	501	GTP	C8-N7-C5	2.47	108.67	104.26
20	Aa	501	GDP	C3'-C2'-C1'	2.47	106.13	101.46
21	9f	501	GTP	C8-N7-C5	2.47	108.66	104.26
21	Cf	501	GTP	C8-N7-C5	2.47	108.66	104.26
21	Ad	501	GTP	O6-C6-C5	-2.46	120.03	126.53
21	1d	501	GTP	O6-C6-C5	-2.46	120.03	126.53
21	5f	501	GTP	C8-N7-C5	2.46	108.64	104.26
21	3d	501	GTP	C8-N7-C5	2.46	108.64	104.26
21	3h	501	GTP	C8-N7-C5	2.46	108.64	104.26
19	0X	801	ADP	C5-N7-C8	2.45	107.31	103.45
21	9b	501	GTP	O2B-PB-O3A	2.45	113.90	107.27
21	2h	501	GTP	C8-N7-C5	2.45	108.63	104.26
21	Ch	501	GTP	O6-C6-C5	-2.45	120.06	126.53
21	7d	501	GTP	C8-N7-C5	2.45	108.62	104.26
21	2h	501	GTP	O6-C6-C5	-2.45	120.06	126.53
19	0Z	801	ADP	C5-N7-C8	2.45	107.29	103.45
21	4h	501	GTP	O6-C6-C5	-2.44	120.08	126.53
21	3f	501	GTP	C8-N7-C5	2.44	108.61	104.26
21	Ab	501	GTP	C8-N7-C5	2.44	108.61	104.26
21	8h	501	GTP	O6-C6-C5	-2.44	120.10	126.53
21	2f	501	GTP	O6-C6-C5	-2.44	120.10	126.53
21	Df	501	GTP	C8-N7-C5	2.43	108.60	104.26
21	Dh	501	GTP	O6-C6-C5	-2.43	120.11	126.53
21	2d	501	GTP	O6-C6-C5	-2.43	120.11	126.53
21	Df	501	GTP	O6-C6-C5	-2.43	120.12	126.53
21	1d	501	GTP	C8-N7-C5	2.43	108.59	104.26
21	4f	501	GTP	O6-C6-C5	-2.42	120.14	126.53
20	2a	501	GDP	C4-C5-N7	-2.42	106.84	110.67
21	Cd	501	GTP	O6-C6-C5	-2.41	120.16	126.53
21	Bf	501	GTP	O6-C6-C5	-2.41	120.17	126.53
21	4d	501	GTP	O6-C6-C5	-2.41	120.17	126.53
21	5f	501	GTP	O6-C6-C5	-2.41	120.17	126.53
20	Cg	501	GDP	C3'-C2'-C1'	2.41	106.02	101.46
21	7h	501	GTP	O6-C6-C5	-2.40	120.19	126.53
21	5h	501	GTP	O6-C6-C5	-2.40	120.19	126.53
21	Bh	501	GTP	O6-C6-C5	-2.39	120.22	126.53
21	5d	501	GTP	O6-C6-C5	-2.39	120.22	126.53
21	4b	501	GTP	O6-C6-C5	-2.39	120.23	126.53
21	Ah	501	GTP	C8-N7-C5	2.39	108.51	104.26
21	7d	501	GTP	O6-C6-C5	-2.38	120.24	126.53
21	8d	501	GTP	O6-C6-C5	-2.38	120.25	126.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	Dd	501	GTP	O6-C6-C5	-2.38	120.25	126.53
21	8f	501	GTP	O6-C6-C5	-2.38	120.26	126.53
20	3a	501	GDP	C3'-C2'-C1'	2.37	105.95	101.46
21	7b	501	GTP	O6-C6-C5	-2.37	120.28	126.53
21	5b	501	GTP	O6-C6-C5	-2.37	120.29	126.53
21	7f	501	GTP	O6-C6-C5	-2.36	120.30	126.53
21	Db	501	GTP	O6-C6-C5	-2.36	120.30	126.53
20	1e	501	GDP	C3'-C2'-C1'	2.36	105.93	101.46
21	Bd	501	GTP	O6-C6-C5	-2.36	120.30	126.53
20	9e	501	GDP	O6-C6-C5	-2.36	120.31	126.53
21	Cb	501	GTP	O6-C6-C5	-2.36	120.31	126.53
21	Cf	501	GTP	O6-C6-C5	-2.36	120.31	126.53
21	6b	501	GTP	O6-C6-C5	-2.36	120.31	126.53
20	Bc	501	GDP	C3'-C2'-C1'	2.36	105.92	101.46
21	6d	501	GTP	O6-C6-C5	-2.35	120.33	126.53
20	De	501	GDP	C3'-C2'-C1'	2.35	105.91	101.46
20	4g	501	GDP	C3'-C2'-C1'	2.35	105.90	101.46
21	Bb	501	GTP	O6-C6-C5	-2.34	120.35	126.53
20	Bg	501	GDP	C3'-C2'-C1'	2.32	105.85	101.46
20	Ca	501	GDP	C3'-C2'-C1'	2.31	105.83	101.46
20	3e	501	GDP	C3'-C2'-C1'	2.30	105.82	101.46
20	Da	501	GDP	C3'-C2'-C1'	2.30	105.81	101.46
21	8b	501	GTP	O6-C6-C5	-2.30	120.47	126.53
20	6a	501	GDP	C3'-C2'-C1'	2.29	105.80	101.46
20	2a	501	GDP	C3'-C2'-C1'	2.28	105.78	101.46
20	3c	501	GDP	C3'-C2'-C1'	2.28	105.78	101.46
20	5a	501	GDP	C3'-C2'-C1'	2.28	105.77	101.46
21	1h	501	GTP	O6-C6-C5	-2.27	120.55	126.53
20	Be	501	GDP	C3'-C2'-C1'	2.26	105.74	101.46
20	8a	501	GDP	C3'-C2'-C1'	2.25	105.73	101.46
21	Af	501	GTP	O2B-PB-O3A	2.25	113.35	107.27
21	Bd	501	GTP	O2B-PB-O3A	2.25	113.34	107.27
20	3g	501	GDP	C3'-C2'-C1'	2.24	105.70	101.46
21	3b	501	GTP	O2B-PB-O3A	2.24	113.33	107.27
20	7a	501	GDP	C3'-C2'-C1'	2.24	105.69	101.46
20	Ce	501	GDP	C3'-C2'-C1'	2.23	105.69	101.46
21	6f	501	GTP	O6-C6-C5	-2.23	120.64	126.53
21	6h	501	GTP	O6-C6-C5	-2.23	120.65	126.53
20	8g	501	GDP	C3'-C2'-C1'	2.22	105.67	101.46
20	4a	501	GDP	C3'-C2'-C1'	2.22	105.67	101.46
20	4e	501	GDP	C3'-C2'-C1'	2.22	105.66	101.46
20	8e	501	GDP	C3'-C2'-C1'	2.22	105.65	101.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	5c	501	GDP	C3'-C2'-C1'	2.21	105.64	101.46
21	Ah	501	GTP	O2B-PB-O3A	2.20	113.22	107.27
20	Ag	501	GDP	C3'-C2'-C1'	2.20	105.62	101.46
20	8c	501	GDP	C3'-C2'-C1'	2.20	105.62	101.46
21	Db	501	GTP	O2B-PB-O3A	2.20	113.21	107.27
20	5e	501	GDP	C3'-C2'-C1'	2.19	105.61	101.46
21	Bh	501	GTP	O2B-PB-O3A	2.19	113.20	107.27
20	Ba	501	GDP	C3'-C2'-C1'	2.19	105.61	101.46
20	6c	501	GDP	C3'-C2'-C1'	2.19	105.60	101.46
20	2c	501	GDP	C3'-C2'-C1'	2.18	105.59	101.46
20	4c	501	GDP	C3'-C2'-C1'	2.18	105.59	101.46
20	1a	501	GDP	C3'-C2'-C1'	2.18	105.59	101.46
20	2a	501	GDP	O6-C6-C5	-2.17	120.81	126.53
20	1c	501	GDP	O6-C6-C5	-2.17	120.82	126.53
20	3c	501	GDP	O6-C6-C5	-2.16	120.82	126.53
21	8b	501	GTP	O2B-PB-O3A	2.16	113.12	107.27
20	5g	501	GDP	C3'-C2'-C1'	2.16	105.54	101.46
20	7e	501	GDP	O6-C6-C5	-2.15	120.85	126.53
21	5b	501	GTP	C3'-C2'-C1'	2.15	105.53	101.46
20	6e	501	GDP	C3'-C2'-C1'	2.15	105.53	101.46
20	Dg	501	GDP	C3'-C2'-C1'	2.15	105.53	101.46
20	6c	501	GDP	O6-C6-C5	-2.15	120.86	126.53
20	5c	501	GDP	O6-C6-C5	-2.14	120.87	126.53
20	Cg	501	GDP	O6-C6-C5	-2.14	120.87	126.53
21	Ch	501	GTP	C3'-C2'-C1'	2.14	105.52	101.46
20	6g	501	GDP	C3'-C2'-C1'	2.14	105.52	101.46
20	1c	501	GDP	C3'-C2'-C1'	2.14	105.51	101.46
20	Ag	501	GDP	O6-C6-C5	-2.14	120.88	126.53
21	4h	501	GTP	O2B-PB-O3A	2.13	113.04	107.27
20	Ce	501	GDP	O6-C6-C5	-2.13	120.90	126.53
21	Cd	501	GTP	C3'-C2'-C1'	2.13	105.50	101.46
20	2g	501	GDP	O6-C6-C5	-2.13	120.90	126.53
20	De	501	GDP	O6-C6-C5	-2.13	120.91	126.53
20	2e	501	GDP	C3'-C2'-C1'	2.13	105.49	101.46
20	Dg	501	GDP	O6-C6-C5	-2.13	120.91	126.53
20	Ae	501	GDP	C3'-C2'-C1'	2.13	105.49	101.46
20	1g	501	GDP	C3'-C2'-C1'	2.13	105.48	101.46
21	Bf	501	GTP	O2B-PB-O3A	2.12	113.02	107.27
21	4f	501	GTP	O2B-PB-O3A	2.12	113.01	107.27
20	4g	501	GDP	O6-C6-C5	-2.12	120.93	126.53
20	9g	501	GDP	O6-C6-C5	-2.12	120.94	126.53
20	9a	501	GDP	O6-C6-C5	-2.12	120.94	126.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	4a	501	GDP	O6-C6-C5	-2.12	120.94	126.53
20	Ba	501	GDP	O6-C6-C5	-2.12	120.95	126.53
20	8g	501	GDP	O6-C6-C5	-2.11	120.95	126.53
20	3a	501	GDP	O6-C6-C5	-2.11	120.95	126.53
20	Cc	501	GDP	O6-C6-C5	-2.11	120.96	126.53
20	6e	501	GDP	O6-C6-C5	-2.11	120.96	126.53
20	5g	501	GDP	O6-C6-C5	-2.11	120.96	126.53
21	2d	501	GTP	O2B-PB-O3A	2.11	112.97	107.27
21	1h	501	GTP	O2B-PB-O3A	2.11	112.97	107.27
20	1g	501	GDP	O6-C6-C5	-2.11	120.97	126.53
20	3g	501	GDP	O6-C6-C5	-2.11	120.97	126.53
21	8d	501	GTP	C3'-C2'-C1'	2.11	105.44	101.46
20	2e	501	GDP	O6-C6-C5	-2.11	120.98	126.53
20	Be	501	GDP	O6-C6-C5	-2.10	120.98	126.53
20	2g	501	GDP	C3'-C2'-C1'	2.10	105.44	101.46
21	8d	501	GTP	O2B-PB-O3A	2.10	112.96	107.27
20	3e	501	GDP	O6-C6-C5	-2.10	120.98	126.53
20	2c	501	GDP	O6-C6-C5	-2.10	120.99	126.53
20	7c	501	GDP	O6-C6-C5	-2.10	120.99	126.53
20	4e	501	GDP	O6-C6-C5	-2.10	121.00	126.53
20	8a	501	GDP	O6-C6-C5	-2.10	121.00	126.53
20	Aa	501	GDP	O6-C6-C5	-2.09	121.00	126.53
20	4c	501	GDP	O6-C6-C5	-2.09	121.01	126.53
19	1A	801	ADP	C6-C5-N7	2.09	136.12	132.09
20	7a	501	GDP	O6-C6-C5	-2.09	121.01	126.53
21	8h	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
20	Ac	501	GDP	O6-C6-C5	-2.09	121.01	126.53
20	Ac	501	GDP	C3'-C2'-C1'	2.09	105.42	101.46
21	7h	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
20	Dc	501	GDP	O6-C6-C5	-2.09	121.01	126.53
19	0Y	801	ADP	C6-C5-N7	2.09	136.12	132.09
21	3d	501	GTP	O2B-PB-O3A	2.09	112.92	107.27
21	6d	501	GTP	O2B-PB-O3A	2.09	112.91	107.27
21	5d	501	GTP	C3'-C2'-C1'	2.08	105.41	101.46
20	Bg	501	GDP	O6-C6-C5	-2.08	121.04	126.53
20	Ae	501	GDP	O6-C6-C5	-2.08	121.04	126.53
21	7b	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
20	8c	501	GDP	O6-C6-C5	-2.08	121.04	126.53
20	9c	501	GDP	O6-C6-C5	-2.08	121.04	126.53
20	6g	501	GDP	O6-C6-C5	-2.08	121.05	126.53
21	2f	501	GTP	O2B-PB-O3A	2.07	112.88	107.27
20	6a	501	GDP	O6-C6-C5	-2.07	121.06	126.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	8e	501	GDP	O6-C6-C5	-2.07	121.06	126.53
21	1b	501	GTP	C3'-C2'-C1'	2.07	105.38	101.46
21	Ad	501	GTP	O2B-PB-O3A	2.07	112.87	107.27
20	1e	501	GDP	O6-C6-C5	-2.07	121.07	126.53
21	3f	501	GTP	C3'-C2'-C1'	2.07	105.38	101.46
20	7g	501	GDP	O6-C6-C5	-2.07	121.08	126.53
21	8b	501	GTP	C3'-C2'-C1'	2.07	105.37	101.46
20	9a	501	GDP	C3'-C2'-C1'	2.06	105.37	101.46
21	3b	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
20	7g	501	GDP	C3'-C2'-C1'	2.06	105.37	101.46
21	5f	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
21	Db	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
21	Cb	501	GTP	O2B-PB-O3A	2.06	112.84	107.27
21	Df	501	GTP	O2B-PB-O3A	2.06	112.84	107.27
20	1a	501	GDP	O6-C6-C5	-2.06	121.09	126.53
20	Cc	501	GDP	C3'-C2'-C1'	2.06	105.36	101.46
20	Ca	501	GDP	O6-C6-C5	-2.06	121.10	126.53
21	6d	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
21	2h	501	GTP	O2B-PB-O3A	2.06	112.83	107.27
21	3h	501	GTP	C3'-C2'-C1'	2.06	105.35	101.46
21	Bb	501	GTP	O2B-PB-O3A	2.05	112.82	107.27
21	3f	501	GTP	O2B-PB-O3A	2.05	112.82	107.27
20	7c	501	GDP	C3'-C2'-C1'	2.05	105.34	101.46
20	Dc	501	GDP	C3'-C2'-C1'	2.05	105.34	101.46
21	3d	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
21	4h	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
20	9g	501	GDP	C3'-C2'-C1'	2.05	105.33	101.46
19	0Z	801	ADP	O4'-C1'-N9	2.04	112.02	108.09
21	2f	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
21	Cf	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
19	0X	801	ADP	O4'-C1'-N9	2.04	112.01	108.09
20	Bc	501	GDP	O6-C6-C5	-2.04	121.14	126.53
20	5a	501	GDP	O6-C6-C5	-2.04	121.14	126.53
21	Ab	501	GTP	O2B-PB-O3A	2.04	112.79	107.27
21	Df	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
21	Dd	501	GTP	O2B-PB-O3A	2.04	112.78	107.27
21	5h	501	GTP	C3'-C2'-C1'	2.04	105.31	101.46
21	9d	501	GTP	O2B-PB-O3A	2.03	112.77	107.27
20	5e	501	GDP	O6-C6-C5	-2.03	121.17	126.53
21	1f	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
20	Da	501	GDP	O6-C6-C5	-2.02	121.19	126.53
21	Dh	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	Ad	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
21	Ch	501	GTP	O2B-PB-O3A	2.02	112.73	107.27
21	Af	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46
21	1d	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
21	3h	501	GTP	O2B-PB-O3A	2.01	112.72	107.27
21	Bd	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
20	9c	501	GDP	C3'-C2'-C1'	2.01	105.27	101.46
21	Cb	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
21	7d	501	GTP	O2B-PB-O3A	2.01	112.70	107.27
21	6b	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
21	9f	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46
21	Ab	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46
21	5d	501	GTP	O2B-PB-O3A	2.00	112.68	107.27
21	4b	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46

There are no chirality outliers.

All (324) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
19	0Y	801	ADP	PA-O3A-PB-O2B
19	0Y	801	ADP	PA-O3A-PB-O3B
19	1A	801	ADP	PA-O3A-PB-O2B
20	1a	501	GDP	C5'-O5'-PA-O3A
20	1a	501	GDP	C5'-O5'-PA-O1A
20	1a	501	GDP	C5'-O5'-PA-O2A
20	1c	501	GDP	C5'-O5'-PA-O3A
20	1c	501	GDP	C5'-O5'-PA-O1A
20	1c	501	GDP	C5'-O5'-PA-O2A
20	1e	501	GDP	C5'-O5'-PA-O3A
20	1e	501	GDP	C5'-O5'-PA-O1A
20	1e	501	GDP	C5'-O5'-PA-O2A
20	1g	501	GDP	C5'-O5'-PA-O3A
20	1g	501	GDP	C5'-O5'-PA-O1A
20	1g	501	GDP	C5'-O5'-PA-O2A
20	2a	501	GDP	C5'-O5'-PA-O3A
20	2a	501	GDP	C5'-O5'-PA-O1A
20	2a	501	GDP	C5'-O5'-PA-O2A
20	2c	501	GDP	C5'-O5'-PA-O3A
20	2c	501	GDP	C5'-O5'-PA-O1A
20	2c	501	GDP	C5'-O5'-PA-O2A
20	2e	501	GDP	C5'-O5'-PA-O3A
20	2e	501	GDP	C5'-O5'-PA-O1A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
20	2e	501	GDP	C5'-O5'-PA-O2A
20	2g	501	GDP	C5'-O5'-PA-O3A
20	2g	501	GDP	C5'-O5'-PA-O1A
20	2g	501	GDP	C5'-O5'-PA-O2A
20	3a	501	GDP	C5'-O5'-PA-O3A
20	3a	501	GDP	C5'-O5'-PA-O1A
20	3a	501	GDP	C5'-O5'-PA-O2A
20	3c	501	GDP	C5'-O5'-PA-O3A
20	3c	501	GDP	C5'-O5'-PA-O1A
20	3c	501	GDP	C5'-O5'-PA-O2A
20	3e	501	GDP	C5'-O5'-PA-O3A
20	3e	501	GDP	C5'-O5'-PA-O1A
20	3e	501	GDP	C5'-O5'-PA-O2A
20	3g	501	GDP	C5'-O5'-PA-O3A
20	3g	501	GDP	C5'-O5'-PA-O1A
20	3g	501	GDP	C5'-O5'-PA-O2A
20	4a	501	GDP	C5'-O5'-PA-O3A
20	4a	501	GDP	C5'-O5'-PA-O2A
20	4c	501	GDP	C5'-O5'-PA-O3A
20	4c	501	GDP	C5'-O5'-PA-O2A
20	4e	501	GDP	C5'-O5'-PA-O3A
20	4e	501	GDP	C5'-O5'-PA-O1A
20	4e	501	GDP	C5'-O5'-PA-O2A
20	4g	501	GDP	C5'-O5'-PA-O3A
20	4g	501	GDP	C5'-O5'-PA-O1A
20	4g	501	GDP	C5'-O5'-PA-O2A
20	5a	501	GDP	C5'-O5'-PA-O3A
20	5a	501	GDP	C5'-O5'-PA-O2A
20	5c	501	GDP	C5'-O5'-PA-O3A
20	5c	501	GDP	C5'-O5'-PA-O2A
20	5e	501	GDP	C5'-O5'-PA-O3A
20	5e	501	GDP	C5'-O5'-PA-O2A
20	5g	501	GDP	C5'-O5'-PA-O3A
20	6a	501	GDP	C5'-O5'-PA-O3A
20	6a	501	GDP	C5'-O5'-PA-O2A
20	6c	501	GDP	C5'-O5'-PA-O3A
20	6c	501	GDP	C5'-O5'-PA-O1A
20	6c	501	GDP	C5'-O5'-PA-O2A
20	6e	501	GDP	C5'-O5'-PA-O3A
20	6e	501	GDP	C5'-O5'-PA-O2A
20	6g	501	GDP	C5'-O5'-PA-O3A
20	6g	501	GDP	C5'-O5'-PA-O2A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
20	7a	501	GDP	C5'-O5'-PA-O3A
20	7a	501	GDP	C5'-O5'-PA-O2A
20	7c	501	GDP	C5'-O5'-PA-O3A
20	7c	501	GDP	C5'-O5'-PA-O1A
20	7c	501	GDP	C5'-O5'-PA-O2A
20	7e	501	GDP	C5'-O5'-PA-O3A
20	7e	501	GDP	C5'-O5'-PA-O2A
20	7g	501	GDP	C5'-O5'-PA-O3A
20	7g	501	GDP	C5'-O5'-PA-O1A
20	7g	501	GDP	C5'-O5'-PA-O2A
20	8a	501	GDP	C5'-O5'-PA-O3A
20	8a	501	GDP	C5'-O5'-PA-O1A
20	8a	501	GDP	C5'-O5'-PA-O2A
20	8c	501	GDP	C5'-O5'-PA-O3A
20	8c	501	GDP	C5'-O5'-PA-O1A
20	8c	501	GDP	C5'-O5'-PA-O2A
20	8e	501	GDP	C5'-O5'-PA-O3A
20	8e	501	GDP	C5'-O5'-PA-O1A
20	8e	501	GDP	C5'-O5'-PA-O2A
20	8g	501	GDP	C5'-O5'-PA-O3A
20	8g	501	GDP	C5'-O5'-PA-O1A
20	8g	501	GDP	C5'-O5'-PA-O2A
20	9a	501	GDP	C5'-O5'-PA-O3A
20	9c	501	GDP	C5'-O5'-PA-O3A
20	9c	501	GDP	C5'-O5'-PA-O1A
20	9c	501	GDP	C5'-O5'-PA-O2A
20	9e	501	GDP	C5'-O5'-PA-O3A
20	9e	501	GDP	C5'-O5'-PA-O2A
20	9g	501	GDP	C5'-O5'-PA-O3A
20	9g	501	GDP	C5'-O5'-PA-O1A
20	9g	501	GDP	C5'-O5'-PA-O2A
20	Aa	501	GDP	C5'-O5'-PA-O3A
20	Aa	501	GDP	C5'-O5'-PA-O1A
20	Aa	501	GDP	C5'-O5'-PA-O2A
20	Ac	501	GDP	C5'-O5'-PA-O3A
20	Ac	501	GDP	C5'-O5'-PA-O2A
20	Ae	501	GDP	C5'-O5'-PA-O3A
20	Ae	501	GDP	C5'-O5'-PA-O2A
20	Ag	501	GDP	C5'-O5'-PA-O3A
20	Ag	501	GDP	C5'-O5'-PA-O1A
20	Ag	501	GDP	C5'-O5'-PA-O2A
20	Ba	501	GDP	C5'-O5'-PA-O3A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
20	Ba	501	GDP	C5'-O5'-PA-O1A
20	Ba	501	GDP	C5'-O5'-PA-O2A
20	Bc	501	GDP	C5'-O5'-PA-O3A
20	Bc	501	GDP	C5'-O5'-PA-O1A
20	Bc	501	GDP	C5'-O5'-PA-O2A
20	Be	501	GDP	C5'-O5'-PA-O3A
20	Be	501	GDP	C5'-O5'-PA-O1A
20	Be	501	GDP	C5'-O5'-PA-O2A
20	Bg	501	GDP	C5'-O5'-PA-O3A
20	Bg	501	GDP	C5'-O5'-PA-O1A
20	Bg	501	GDP	C5'-O5'-PA-O2A
20	Ca	501	GDP	C5'-O5'-PA-O3A
20	Ca	501	GDP	C5'-O5'-PA-O1A
20	Ca	501	GDP	C5'-O5'-PA-O2A
20	Cc	501	GDP	C5'-O5'-PA-O3A
20	Cc	501	GDP	C5'-O5'-PA-O1A
20	Cc	501	GDP	C5'-O5'-PA-O2A
20	Ce	501	GDP	C5'-O5'-PA-O3A
20	Ce	501	GDP	C5'-O5'-PA-O1A
20	Ce	501	GDP	C5'-O5'-PA-O2A
20	Cg	501	GDP	C5'-O5'-PA-O3A
20	Cg	501	GDP	C5'-O5'-PA-O1A
20	Cg	501	GDP	C5'-O5'-PA-O2A
20	Da	501	GDP	C5'-O5'-PA-O3A
20	Da	501	GDP	C5'-O5'-PA-O1A
20	Da	501	GDP	C5'-O5'-PA-O2A
20	Dc	501	GDP	C5'-O5'-PA-O3A
20	Dc	501	GDP	C5'-O5'-PA-O1A
20	Dc	501	GDP	C5'-O5'-PA-O2A
20	De	501	GDP	C5'-O5'-PA-O3A
20	De	501	GDP	C5'-O5'-PA-O1A
20	De	501	GDP	C5'-O5'-PA-O2A
20	Dg	501	GDP	C5'-O5'-PA-O3A
20	Dg	501	GDP	C5'-O5'-PA-O1A
20	Dg	501	GDP	C5'-O5'-PA-O2A
21	1b	501	GTP	PB-O3B-PG-O2G
21	1b	501	GTP	O4'-C4'-C5'-O5'
21	1d	501	GTP	O4'-C4'-C5'-O5'
21	1f	501	GTP	O4'-C4'-C5'-O5'
21	2b	501	GTP	O4'-C4'-C5'-O5'
21	2d	501	GTP	O4'-C4'-C5'-O5'
21	2f	501	GTP	O4'-C4'-C5'-O5'

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
21	2h	501	GTP	O4'-C4'-C5'-O5'
21	3b	501	GTP	O4'-C4'-C5'-O5'
21	3d	501	GTP	O4'-C4'-C5'-O5'
21	3f	501	GTP	O4'-C4'-C5'-O5'
21	3h	501	GTP	PB-O3B-PG-O2G
21	3h	501	GTP	O4'-C4'-C5'-O5'
21	4b	501	GTP	O4'-C4'-C5'-O5'
21	4d	501	GTP	O4'-C4'-C5'-O5'
21	4f	501	GTP	O4'-C4'-C5'-O5'
21	4h	501	GTP	O4'-C4'-C5'-O5'
21	5b	501	GTP	PB-O3B-PG-O2G
21	5b	501	GTP	O4'-C4'-C5'-O5'
21	5d	501	GTP	PB-O3B-PG-O2G
21	5d	501	GTP	O4'-C4'-C5'-O5'
21	5f	501	GTP	PB-O3B-PG-O2G
21	5f	501	GTP	O4'-C4'-C5'-O5'
21	5h	501	GTP	PB-O3B-PG-O2G
21	5h	501	GTP	O4'-C4'-C5'-O5'
21	6b	501	GTP	O4'-C4'-C5'-O5'
21	6d	501	GTP	PB-O3B-PG-O2G
21	6d	501	GTP	O4'-C4'-C5'-O5'
21	6f	501	GTP	PB-O3B-PG-O2G
21	6f	501	GTP	O4'-C4'-C5'-O5'
21	6f	501	GTP	C3'-C4'-C5'-O5'
21	6h	501	GTP	PB-O3B-PG-O2G
21	6h	501	GTP	O4'-C4'-C5'-O5'
21	7b	501	GTP	O4'-C4'-C5'-O5'
21	7d	501	GTP	O4'-C4'-C5'-O5'
21	7f	501	GTP	O4'-C4'-C5'-O5'
21	8b	501	GTP	PB-O3B-PG-O2G
21	8b	501	GTP	O4'-C4'-C5'-O5'
21	8d	501	GTP	PB-O3B-PG-O2G
21	8d	501	GTP	O4'-C4'-C5'-O5'
21	8f	501	GTP	PB-O3B-PG-O2G
21	8f	501	GTP	O4'-C4'-C5'-O5'
21	8h	501	GTP	O4'-C4'-C5'-O5'
21	9b	501	GTP	O4'-C4'-C5'-O5'
21	9d	501	GTP	O4'-C4'-C5'-O5'
21	9f	501	GTP	O4'-C4'-C5'-O5'
21	Ab	501	GTP	O4'-C4'-C5'-O5'
21	Ad	501	GTP	O4'-C4'-C5'-O5'
21	Af	501	GTP	O4'-C4'-C5'-O5'

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
21	Ah	501	GTP	O4'-C4'-C5'-O5'
21	Bb	501	GTP	O4'-C4'-C5'-O5'
21	Bd	501	GTP	O4'-C4'-C5'-O5'
21	Bf	501	GTP	PB-O3B-PG-O2G
21	Bf	501	GTP	O4'-C4'-C5'-O5'
21	Bh	501	GTP	O4'-C4'-C5'-O5'
21	Cb	501	GTP	O4'-C4'-C5'-O5'
21	Cd	501	GTP	O4'-C4'-C5'-O5'
21	Ch	501	GTP	PB-O3B-PG-O2G
21	Ch	501	GTP	O4'-C4'-C5'-O5'
21	Db	501	GTP	PB-O3B-PG-O2G
21	Db	501	GTP	O4'-C4'-C5'-O5'
21	Dd	501	GTP	O4'-C4'-C5'-O5'
21	Df	501	GTP	O4'-C4'-C5'-O5'
19	0X	801	ADP	C3'-C4'-C5'-O5'
19	0Z	801	ADP	C3'-C4'-C5'-O5'
21	1b	501	GTP	C3'-C4'-C5'-O5'
21	1d	501	GTP	C3'-C4'-C5'-O5'
21	1f	501	GTP	C3'-C4'-C5'-O5'
21	1h	501	GTP	O4'-C4'-C5'-O5'
21	2b	501	GTP	C3'-C4'-C5'-O5'
21	2d	501	GTP	C3'-C4'-C5'-O5'
21	2f	501	GTP	C3'-C4'-C5'-O5'
21	2h	501	GTP	C3'-C4'-C5'-O5'
21	3b	501	GTP	C3'-C4'-C5'-O5'
21	3d	501	GTP	C3'-C4'-C5'-O5'
21	3f	501	GTP	C3'-C4'-C5'-O5'
21	3h	501	GTP	C3'-C4'-C5'-O5'
21	4b	501	GTP	C3'-C4'-C5'-O5'
21	4d	501	GTP	C3'-C4'-C5'-O5'
21	4f	501	GTP	C3'-C4'-C5'-O5'
21	4h	501	GTP	C3'-C4'-C5'-O5'
21	5b	501	GTP	C3'-C4'-C5'-O5'
21	5d	501	GTP	C3'-C4'-C5'-O5'
21	5f	501	GTP	C3'-C4'-C5'-O5'
21	5h	501	GTP	C3'-C4'-C5'-O5'
21	6b	501	GTP	C3'-C4'-C5'-O5'
21	6d	501	GTP	C3'-C4'-C5'-O5'
21	6h	501	GTP	C3'-C4'-C5'-O5'
21	7b	501	GTP	C3'-C4'-C5'-O5'
21	7d	501	GTP	C3'-C4'-C5'-O5'
21	7f	501	GTP	C3'-C4'-C5'-O5'

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
21	7h	501	GTP	O4'-C4'-C5'-O5'
21	7h	501	GTP	C3'-C4'-C5'-O5'
21	8b	501	GTP	C3'-C4'-C5'-O5'
21	8d	501	GTP	C3'-C4'-C5'-O5'
21	8f	501	GTP	C3'-C4'-C5'-O5'
21	8h	501	GTP	C3'-C4'-C5'-O5'
21	9b	501	GTP	C3'-C4'-C5'-O5'
21	9d	501	GTP	C3'-C4'-C5'-O5'
21	9f	501	GTP	C3'-C4'-C5'-O5'
21	9h	501	GTP	O4'-C4'-C5'-O5'
21	9h	501	GTP	C3'-C4'-C5'-O5'
21	Ab	501	GTP	C3'-C4'-C5'-O5'
21	Ad	501	GTP	C3'-C4'-C5'-O5'
21	Af	501	GTP	C3'-C4'-C5'-O5'
21	Ah	501	GTP	C3'-C4'-C5'-O5'
21	Bb	501	GTP	C3'-C4'-C5'-O5'
21	Bd	501	GTP	C3'-C4'-C5'-O5'
21	Bf	501	GTP	C3'-C4'-C5'-O5'
21	Bh	501	GTP	C3'-C4'-C5'-O5'
21	Cb	501	GTP	C3'-C4'-C5'-O5'
21	Cd	501	GTP	C3'-C4'-C5'-O5'
21	Cf	501	GTP	O4'-C4'-C5'-O5'
21	Cf	501	GTP	C3'-C4'-C5'-O5'
21	Ch	501	GTP	C3'-C4'-C5'-O5'
21	Db	501	GTP	C3'-C4'-C5'-O5'
21	Dd	501	GTP	C3'-C4'-C5'-O5'
21	Df	501	GTP	C3'-C4'-C5'-O5'
21	Dh	501	GTP	O4'-C4'-C5'-O5'
21	Dh	501	GTP	C3'-C4'-C5'-O5'
19	0Y	801	ADP	O4'-C4'-C5'-O5'
19	1A	801	ADP	O4'-C4'-C5'-O5'
21	1h	501	GTP	C3'-C4'-C5'-O5'
19	0Y	801	ADP	C3'-C4'-C5'-O5'
19	1A	801	ADP	C3'-C4'-C5'-O5'
19	0X	801	ADP	O4'-C4'-C5'-O5'
19	0Z	801	ADP	O4'-C4'-C5'-O5'
19	1A	801	ADP	PA-O3A-PB-O1B
21	2f	501	GTP	PB-O3B-PG-O2G
21	4d	501	GTP	PB-O3B-PG-O2G
21	6b	501	GTP	PB-O3B-PG-O2G
21	9d	501	GTP	PB-O3B-PG-O2G
21	9f	501	GTP	PB-O3B-PG-O2G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
21	9h	501	GTP	PB-O3B-PG-O2G
21	Ab	501	GTP	PB-O3B-PG-O2G
21	Df	501	GTP	PB-O3B-PG-O2G
19	0X	801	ADP	O4'-C1'-N9-C8
19	0Y	801	ADP	O4'-C1'-N9-C8
19	0Z	801	ADP	O4'-C1'-N9-C8
19	1A	801	ADP	O4'-C1'-N9-C8
19	0X	801	ADP	C2'-C1'-N9-C8
19	0Y	801	ADP	C2'-C1'-N9-C8
19	0Z	801	ADP	C2'-C1'-N9-C8
19	1A	801	ADP	C2'-C1'-N9-C8
19	0Y	801	ADP	C5'-O5'-PA-O1A
20	4a	501	GDP	C5'-O5'-PA-O1A
20	4c	501	GDP	C5'-O5'-PA-O1A
20	5a	501	GDP	C5'-O5'-PA-O1A
20	5c	501	GDP	C5'-O5'-PA-O1A
20	5e	501	GDP	C5'-O5'-PA-O1A
20	5g	501	GDP	C5'-O5'-PA-O1A
20	6a	501	GDP	C5'-O5'-PA-O1A
20	6e	501	GDP	C5'-O5'-PA-O1A
20	6g	501	GDP	C5'-O5'-PA-O1A
20	7a	501	GDP	C5'-O5'-PA-O1A
20	7e	501	GDP	C5'-O5'-PA-O1A
20	9a	501	GDP	C5'-O5'-PA-O1A
20	9a	501	GDP	C5'-O5'-PA-O2A
20	9e	501	GDP	C5'-O5'-PA-O1A
20	Ac	501	GDP	C5'-O5'-PA-O1A
20	Ae	501	GDP	C5'-O5'-PA-O1A
19	0X	801	ADP	O4'-C1'-N9-C4
19	0Y	801	ADP	O4'-C1'-N9-C4
19	0Z	801	ADP	O4'-C1'-N9-C4
19	1A	801	ADP	O4'-C1'-N9-C4
21	2d	501	GTP	PB-O3B-PG-O2G
21	3d	501	GTP	PB-O3B-PG-O2G
21	3f	501	GTP	PB-O3B-PG-O2G
21	4b	501	GTP	PB-O3B-PG-O2G
21	4f	501	GTP	PB-O3B-PG-O2G
21	7b	501	GTP	PB-O3B-PG-O2G
21	7d	501	GTP	PB-O3B-PG-O2G
21	7h	501	GTP	PB-O3B-PG-O2G
21	8h	501	GTP	PB-O3B-PG-O2G
21	9b	501	GTP	PB-O3B-PG-O2G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
21	Ad	501	GTP	PB-O3B-PG-O2G
21	Af	501	GTP	PB-O3B-PG-O2G
21	Bb	501	GTP	PB-O3B-PG-O2G
21	Bh	501	GTP	PB-O3B-PG-O2G
21	Cb	501	GTP	PB-O3B-PG-O2G
21	Cf	501	GTP	PB-O3B-PG-O2G
19	0Y	801	ADP	C2'-C1'-N9-C4

There are no ring outliers.

90 monomers are involved in 233 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
20	8e	501	GDP	1	0
21	9b	501	GTP	3	0
21	Df	501	GTP	4	0
21	7d	501	GTP	3	0
21	5b	501	GTP	2	0
20	2a	501	GDP	1	0
20	4a	501	GDP	1	0
21	9d	501	GTP	4	0
20	6c	501	GDP	1	0
21	1h	501	GTP	2	0
21	6d	501	GTP	6	0
19	0Y	801	ADP	4	0
21	2b	501	GTP	2	0
20	6g	501	GDP	1	0
21	6h	501	GTP	4	0
21	9f	501	GTP	4	0
19	0X	801	ADP	2	0
21	Ad	501	GTP	1	0
20	Da	501	GDP	2	0
20	8c	501	GDP	1	0
20	6a	501	GDP	3	0
21	4f	501	GTP	2	0
21	4b	501	GTP	4	0
21	4h	501	GTP	2	0
21	3b	501	GTP	4	0
21	2d	501	GTP	5	0
20	De	501	GDP	1	0
20	4c	501	GDP	1	0
21	Bb	501	GTP	4	0
20	Ca	501	GDP	1	0

Continued on next page...

Continued from previous page...

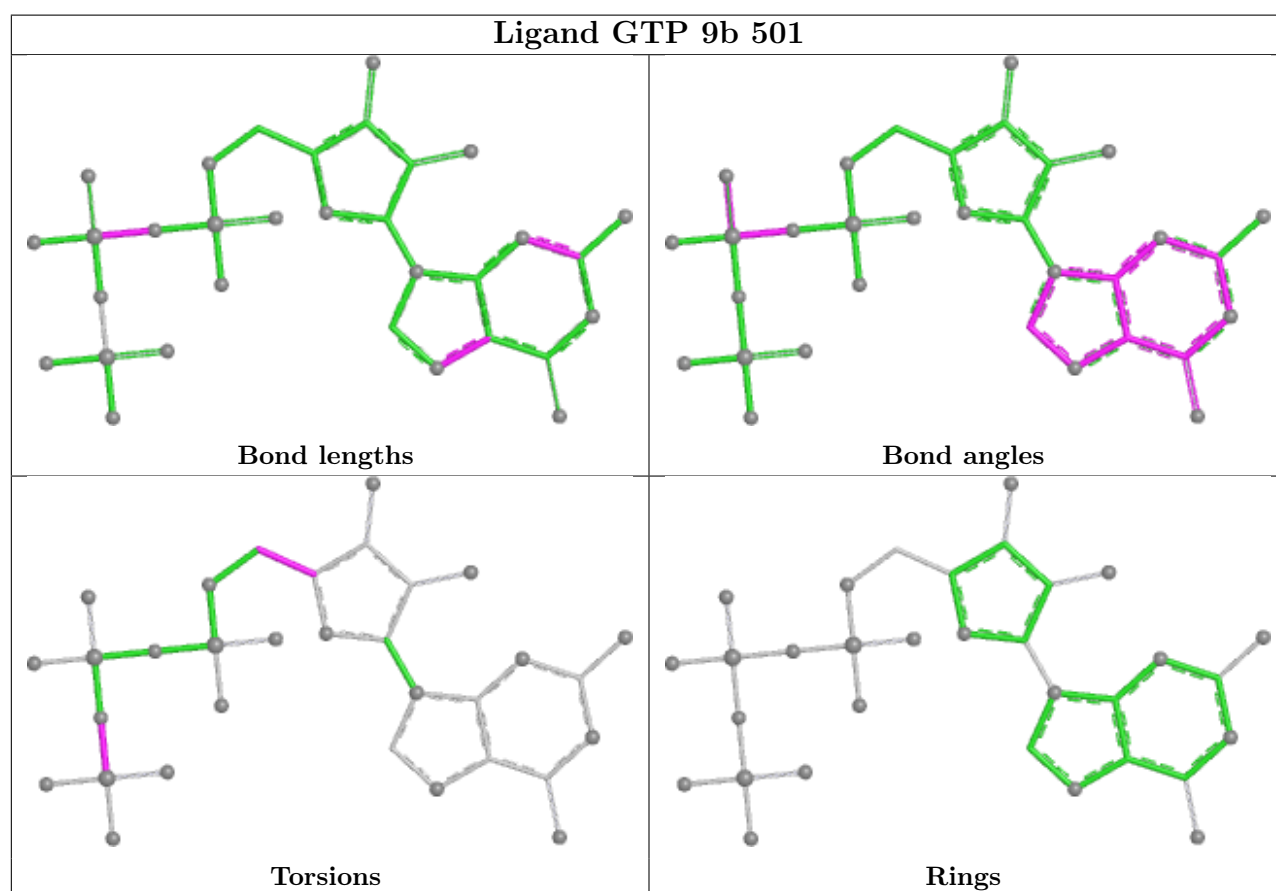
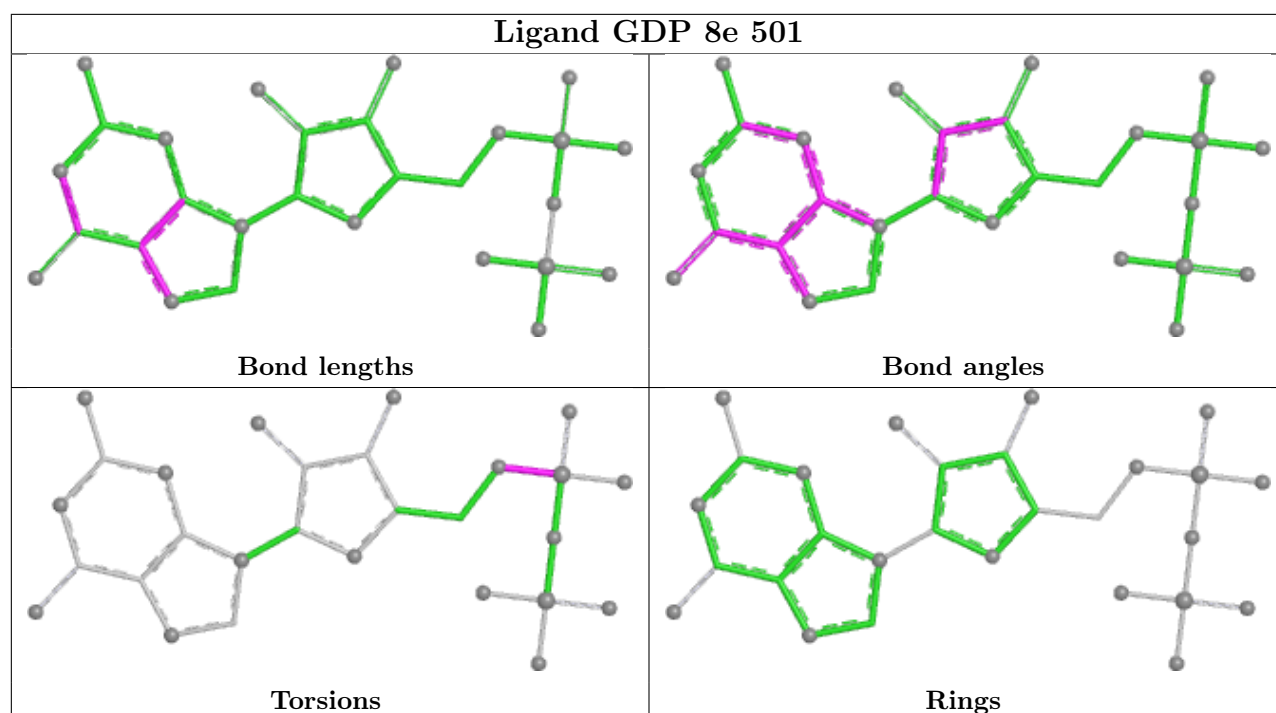
Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	5h	501	GTP	3	0
21	6b	501	GTP	6	0
20	1c	501	GDP	1	0
20	7c	501	GDP	1	0
20	5e	501	GDP	1	0
21	1d	501	GTP	4	0
21	Db	501	GTP	5	0
21	5d	501	GTP	3	0
20	5c	501	GDP	1	0
21	Ah	501	GTP	3	0
21	2h	501	GTP	3	0
21	Cb	501	GTP	5	0
21	3d	501	GTP	5	0
21	Ab	501	GTP	2	0
20	6e	501	GDP	2	0
20	7e	501	GDP	2	0
19	1A	801	ADP	1	0
20	1g	501	GDP	3	0
19	0Z	801	ADP	2	0
20	1a	501	GDP	2	0
21	9h	501	GTP	4	0
21	Cf	501	GTP	4	0
21	2f	501	GTP	4	0
21	7b	501	GTP	4	0
20	2c	501	GDP	1	0
20	Aa	501	GDP	1	0
20	7g	501	GDP	1	0
21	6f	501	GTP	3	0
21	Bf	501	GTP	4	0
21	Cd	501	GTP	5	0
20	9e	501	GDP	1	0
21	1f	501	GTP	3	0
21	Ch	501	GTP	4	0
21	5f	501	GTP	1	0
20	Cc	501	GDP	2	0
21	Af	501	GTP	2	0
20	Cg	501	GDP	1	0
21	7h	501	GTP	2	0
20	8a	501	GDP	2	0
21	Dd	501	GTP	3	0
21	3f	501	GTP	4	0
21	3h	501	GTP	2	0

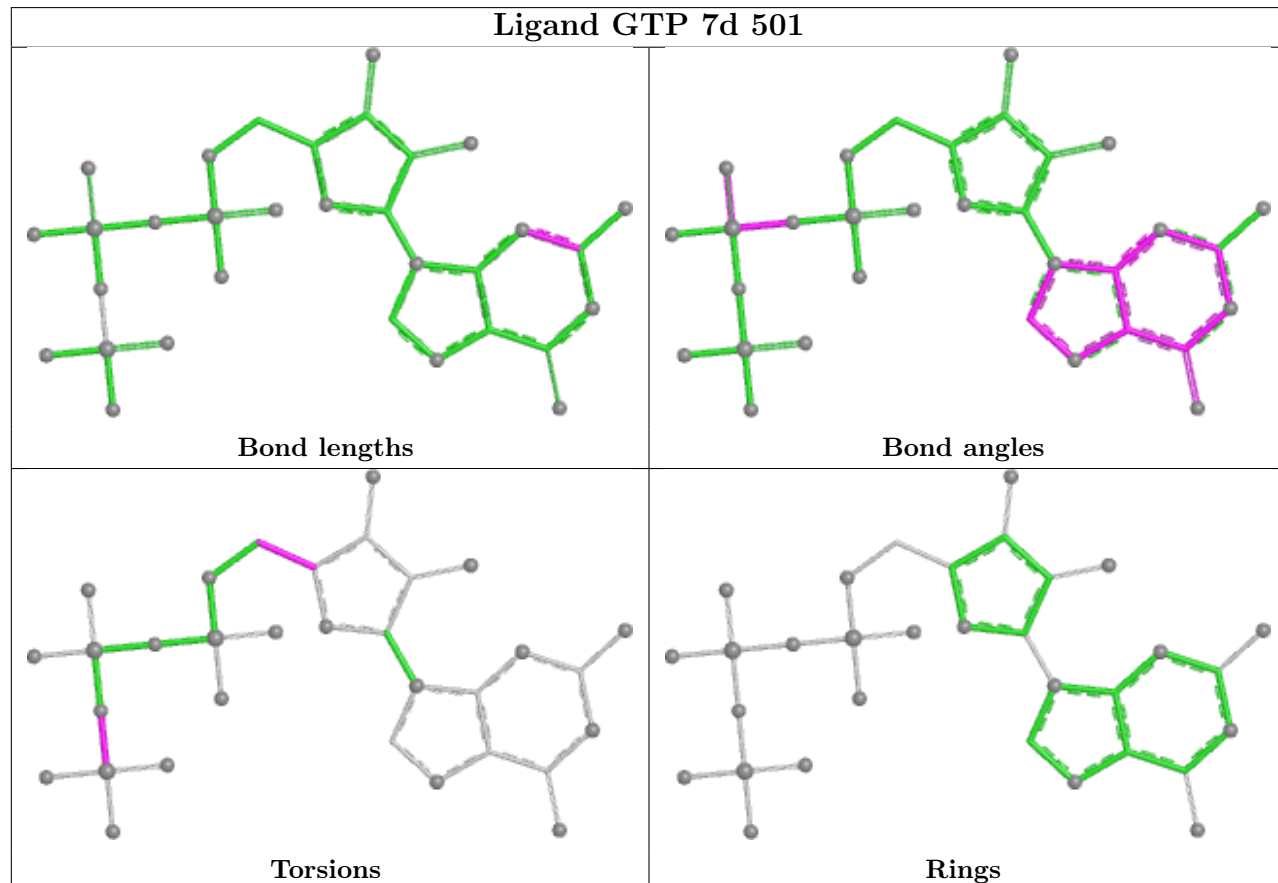
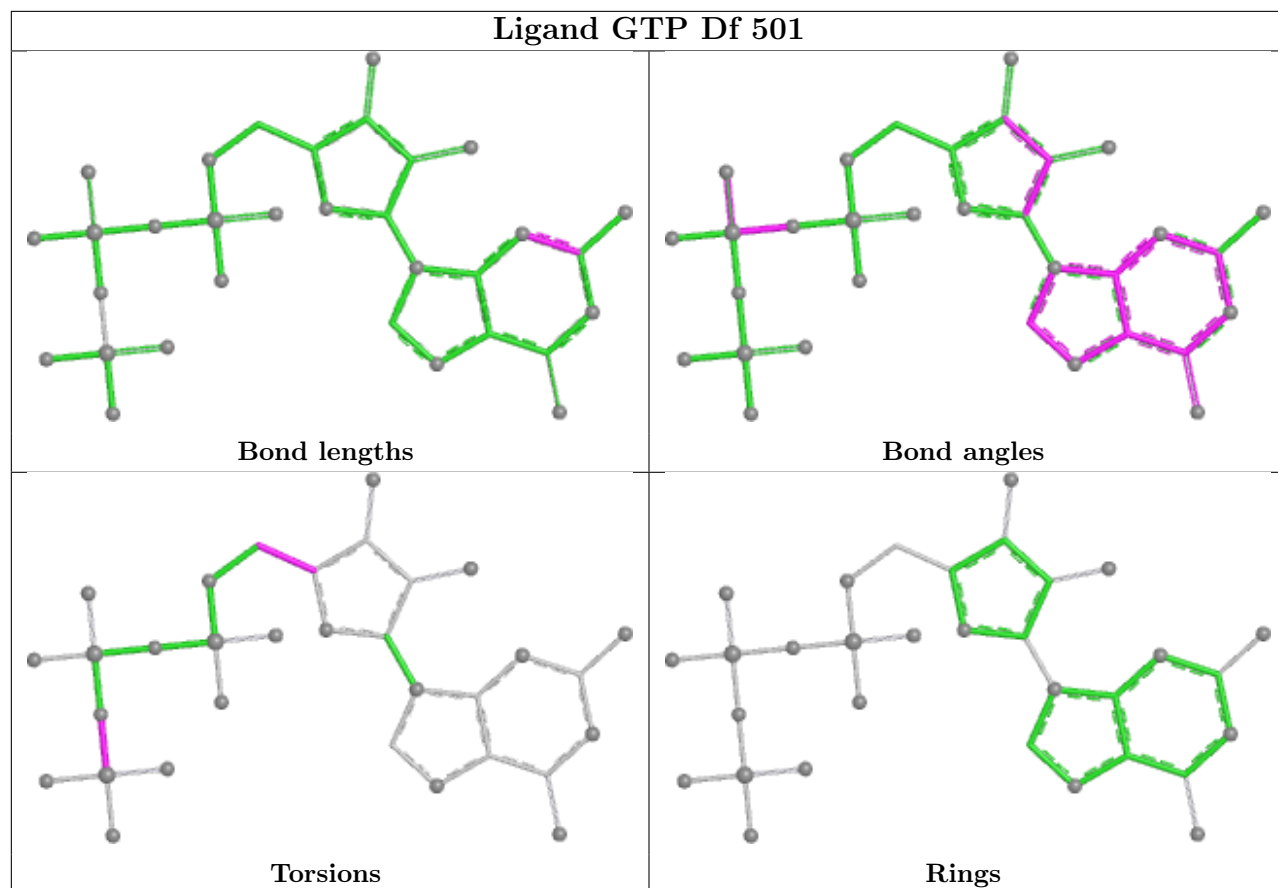
Continued on next page...

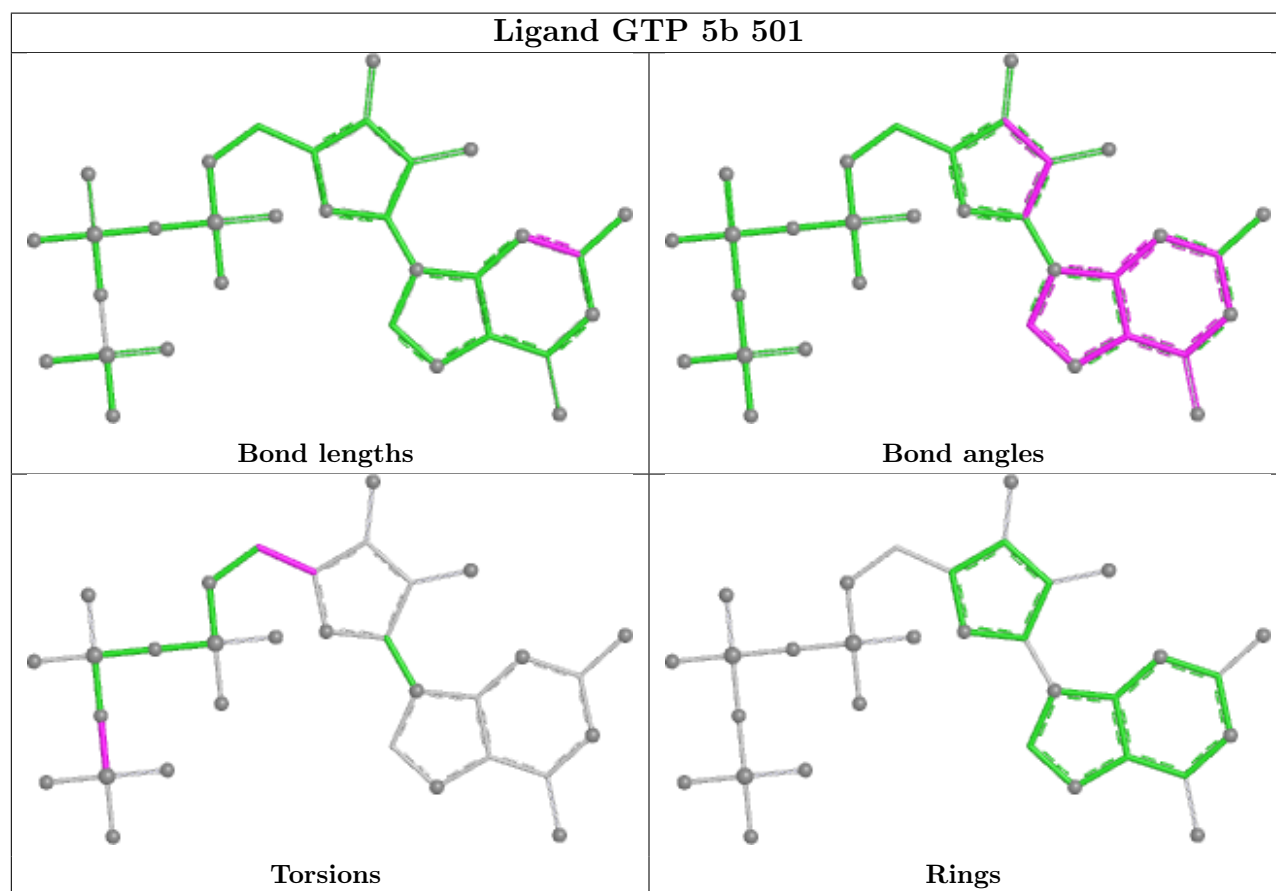
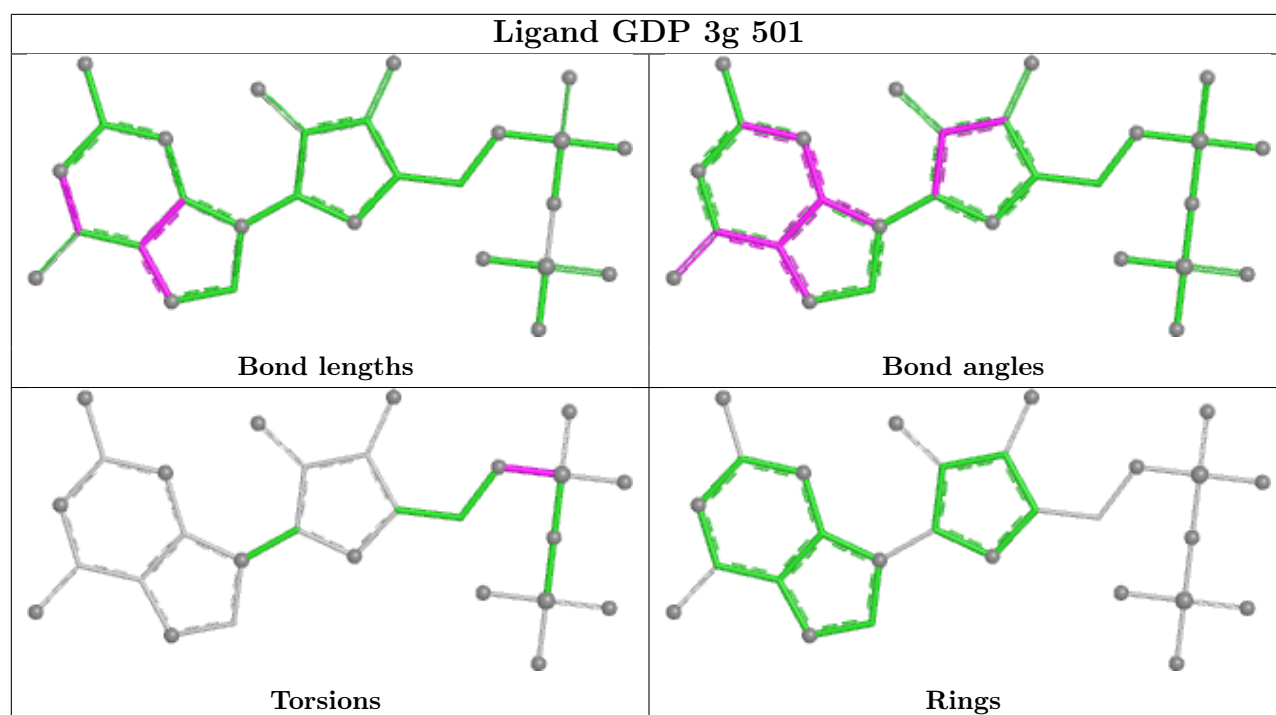
Continued from previous page...

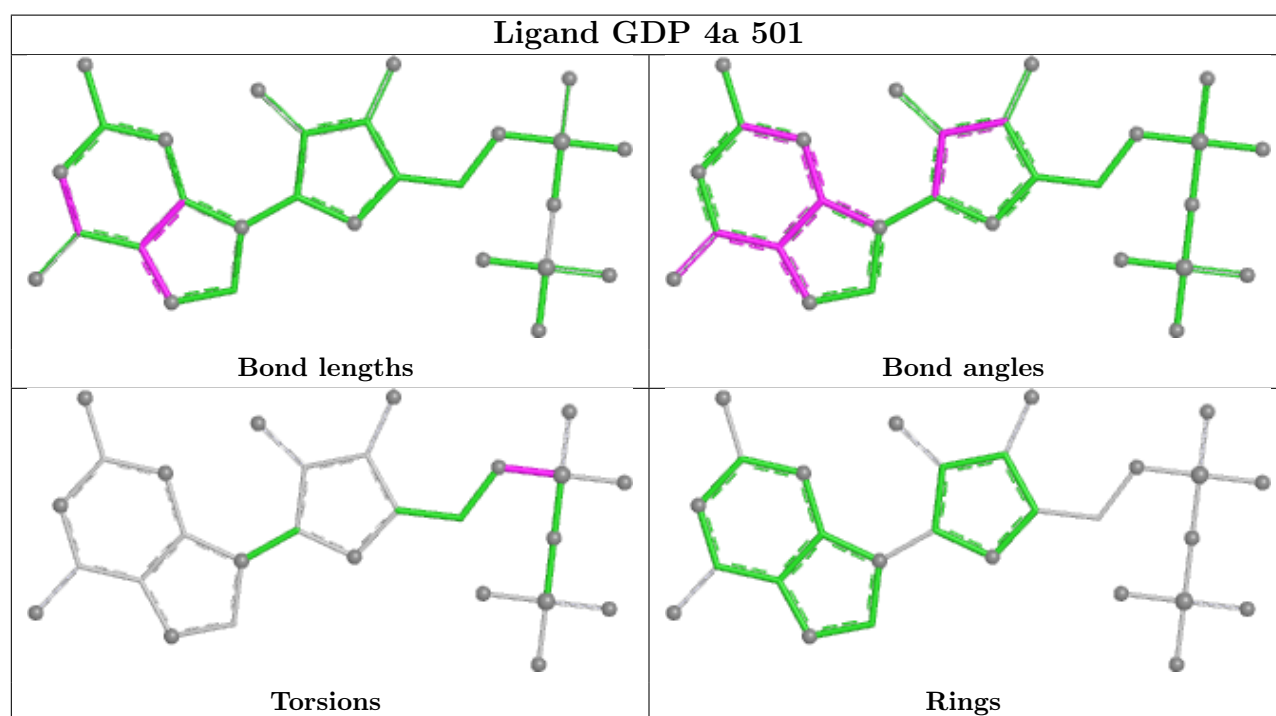
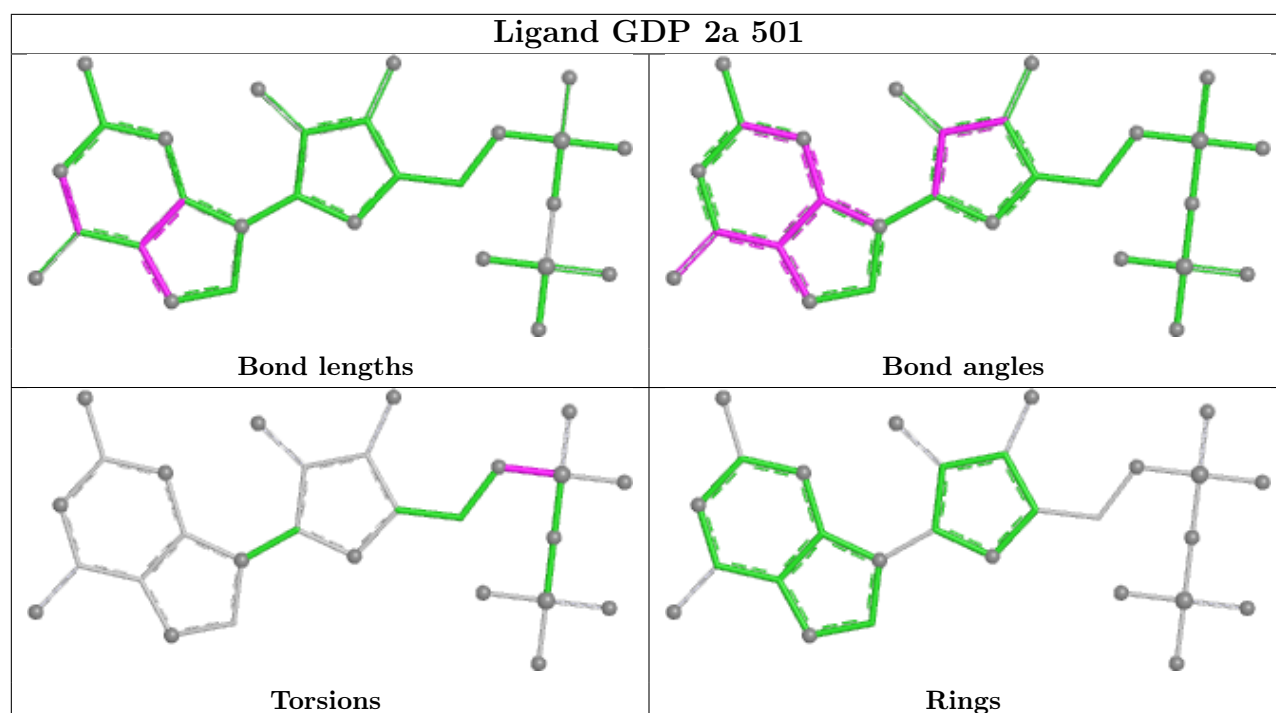
Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	8f	501	GTP	6	0
20	3c	501	GDP	1	0
21	1b	501	GTP	3	0
20	5a	501	GDP	2	0
21	Bh	501	GTP	2	0
20	Dg	501	GDP	1	0
21	Bd	501	GTP	3	0
21	8b	501	GTP	3	0
20	7a	501	GDP	1	0
21	8h	501	GTP	4	0
21	7f	501	GTP	3	0
21	4d	501	GTP	2	0
20	5g	501	GDP	1	0
21	Dh	501	GTP	3	0
20	8g	501	GDP	1	0
20	9c	501	GDP	3	0
20	Ce	501	GDP	1	0
21	8d	501	GTP	4	0

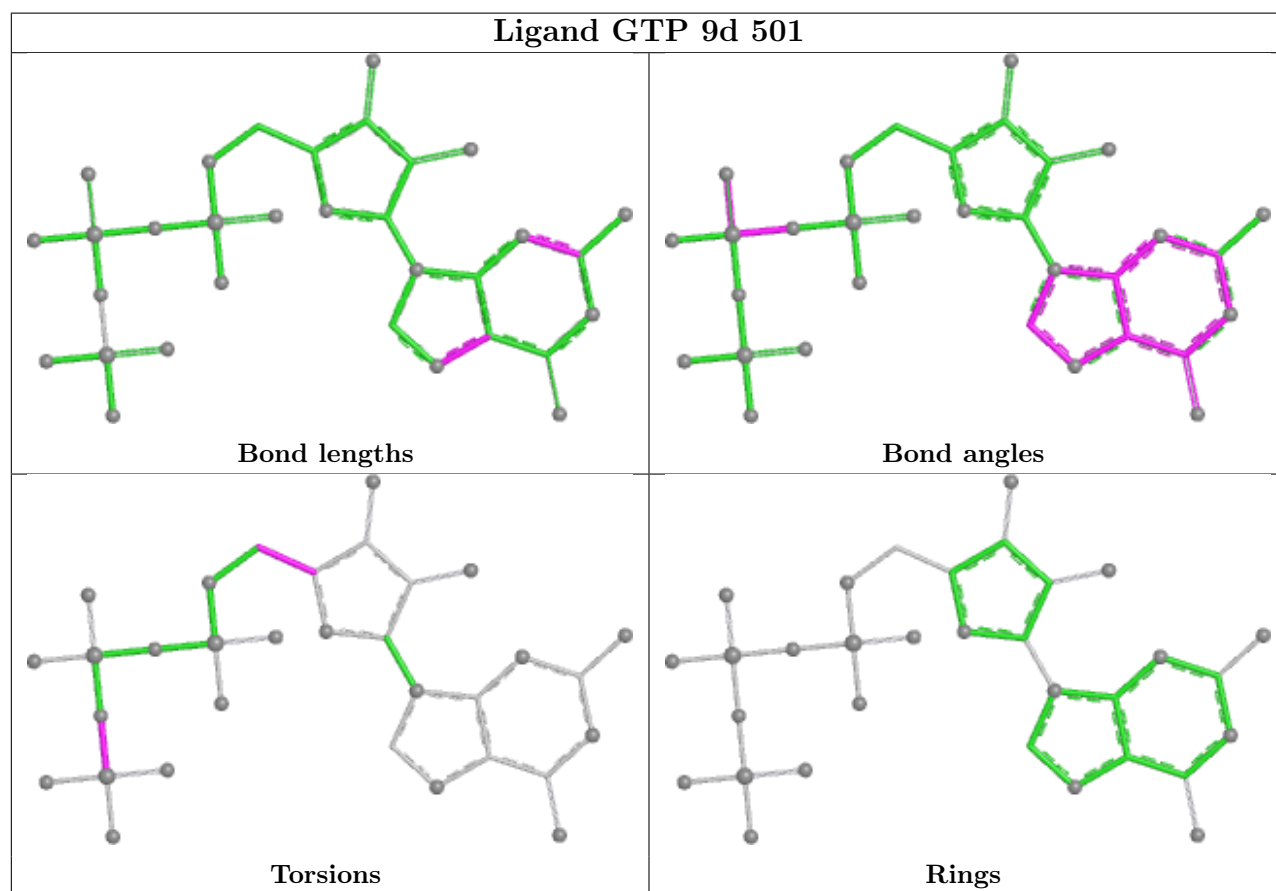
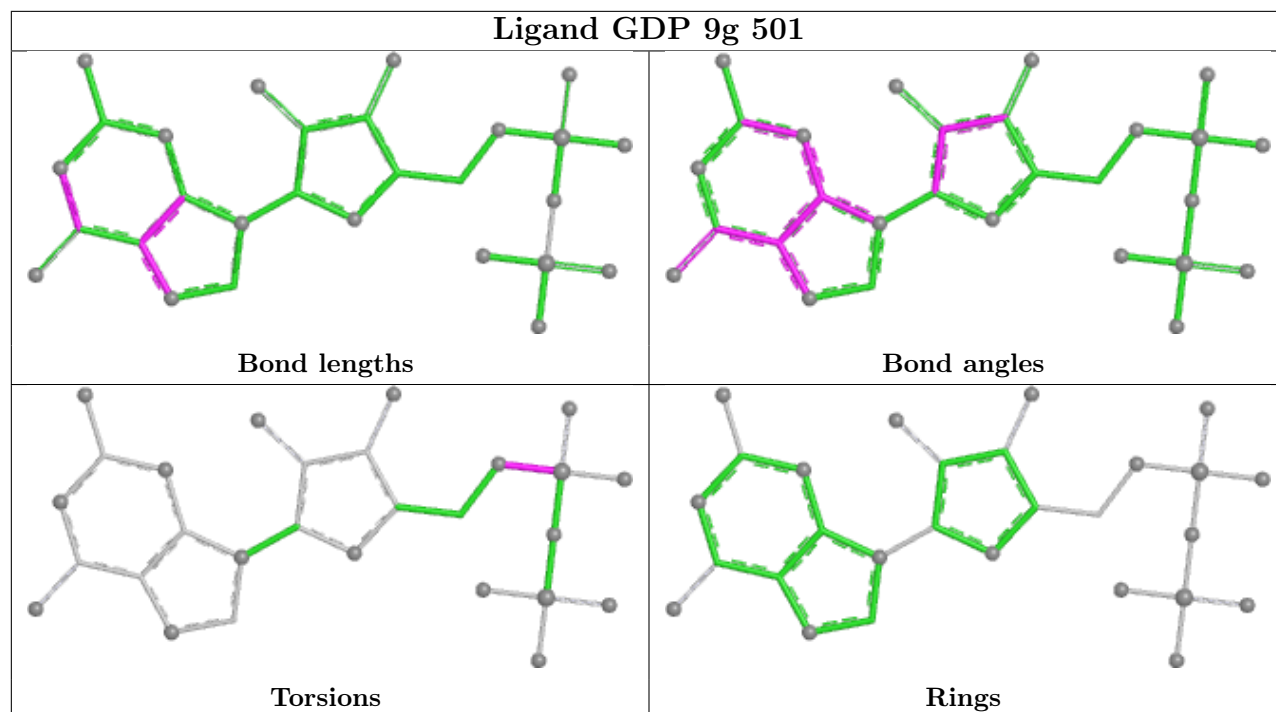
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

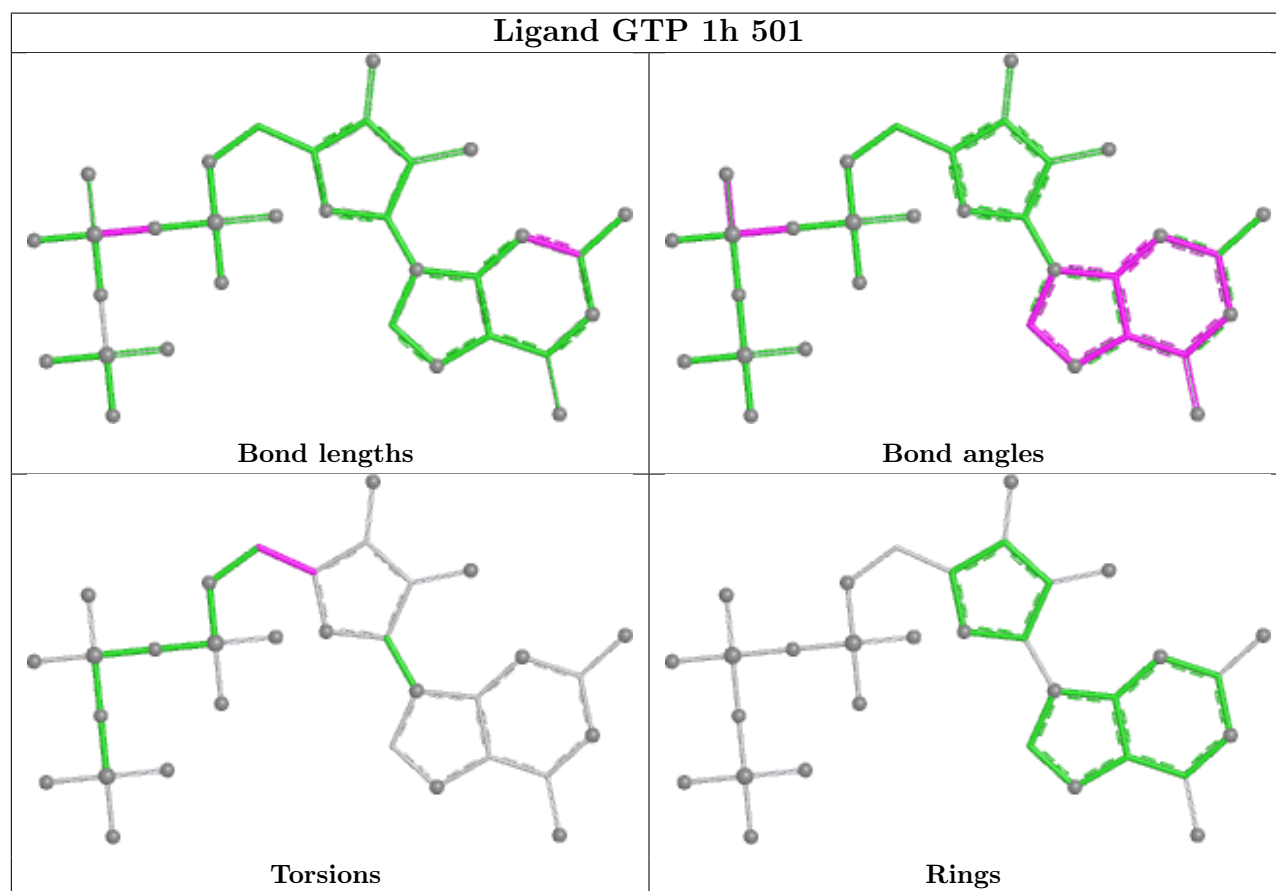
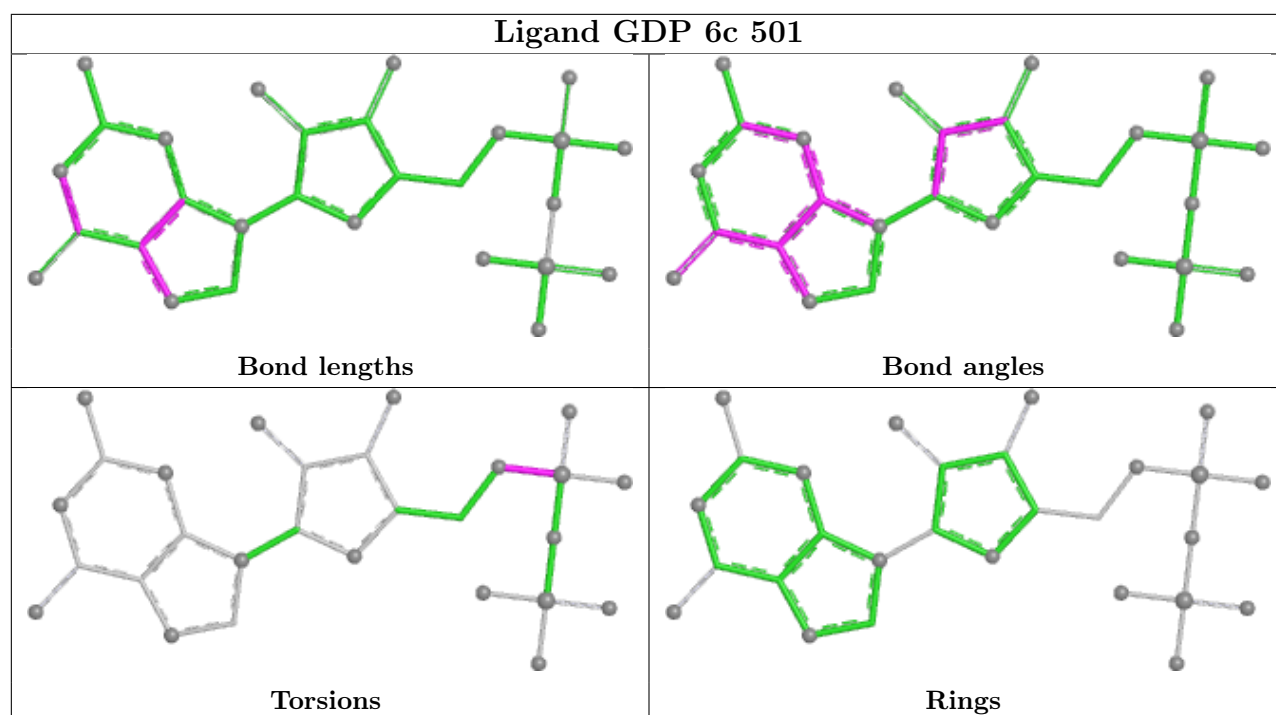


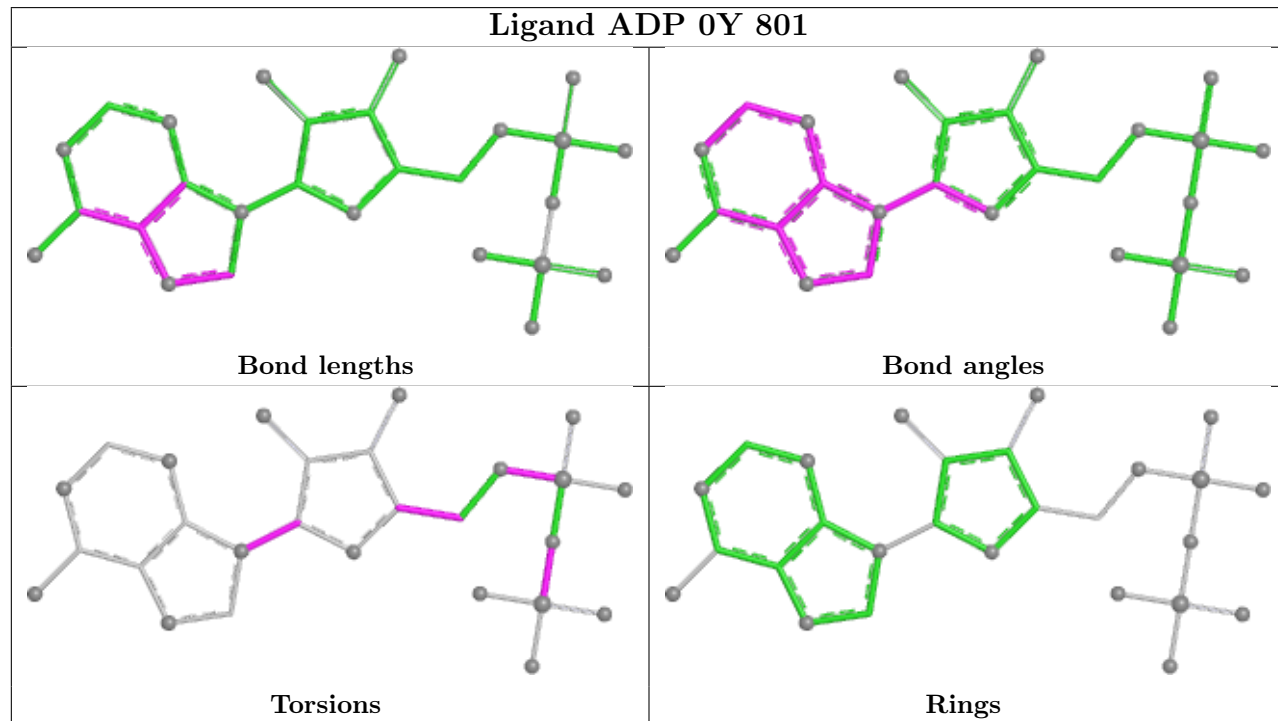
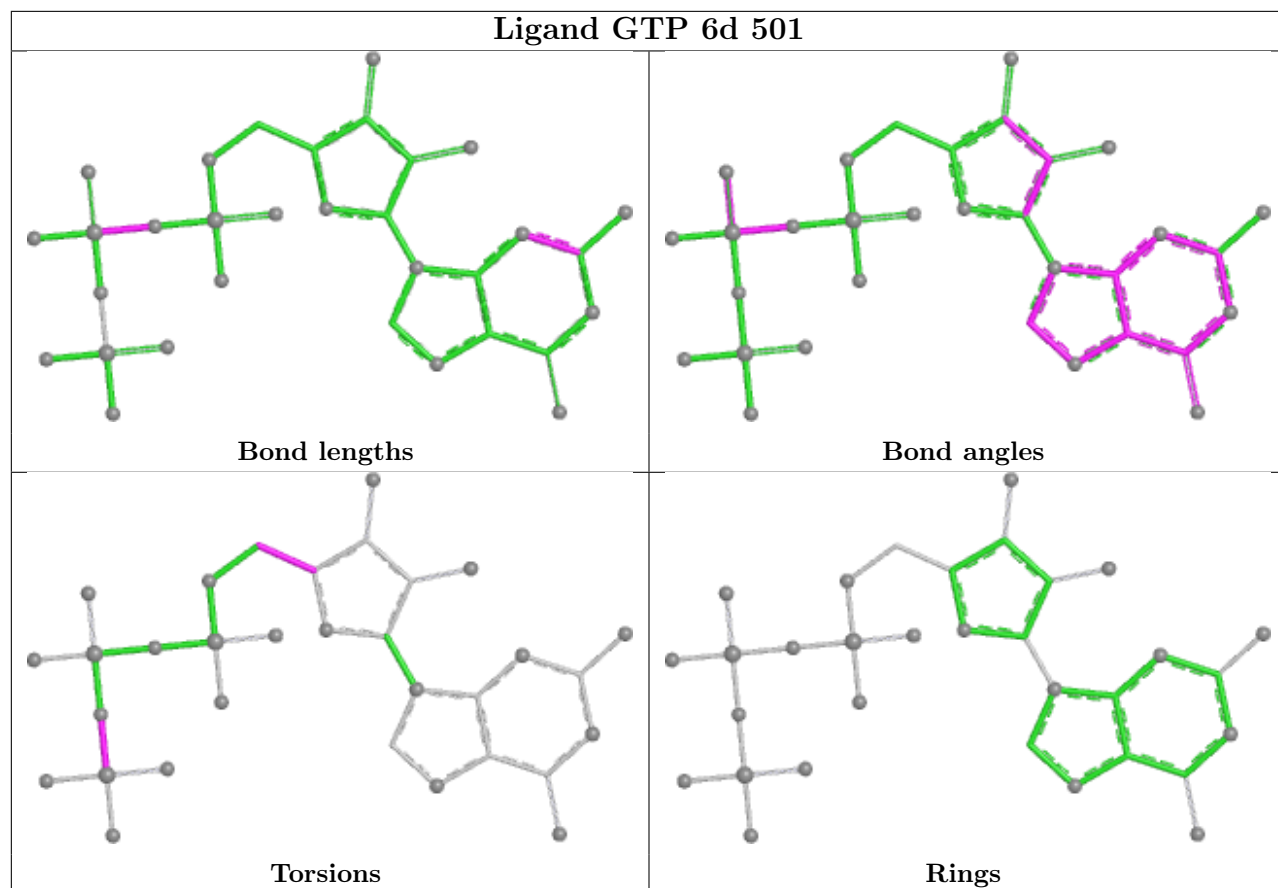


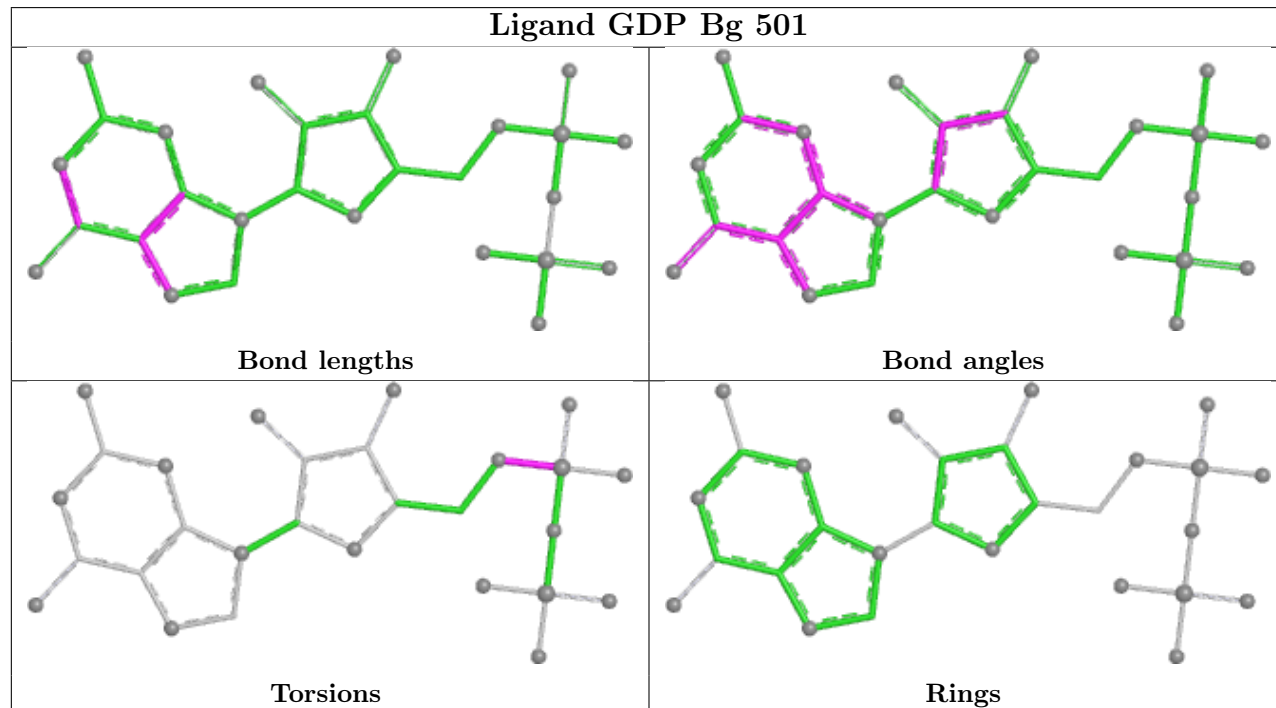
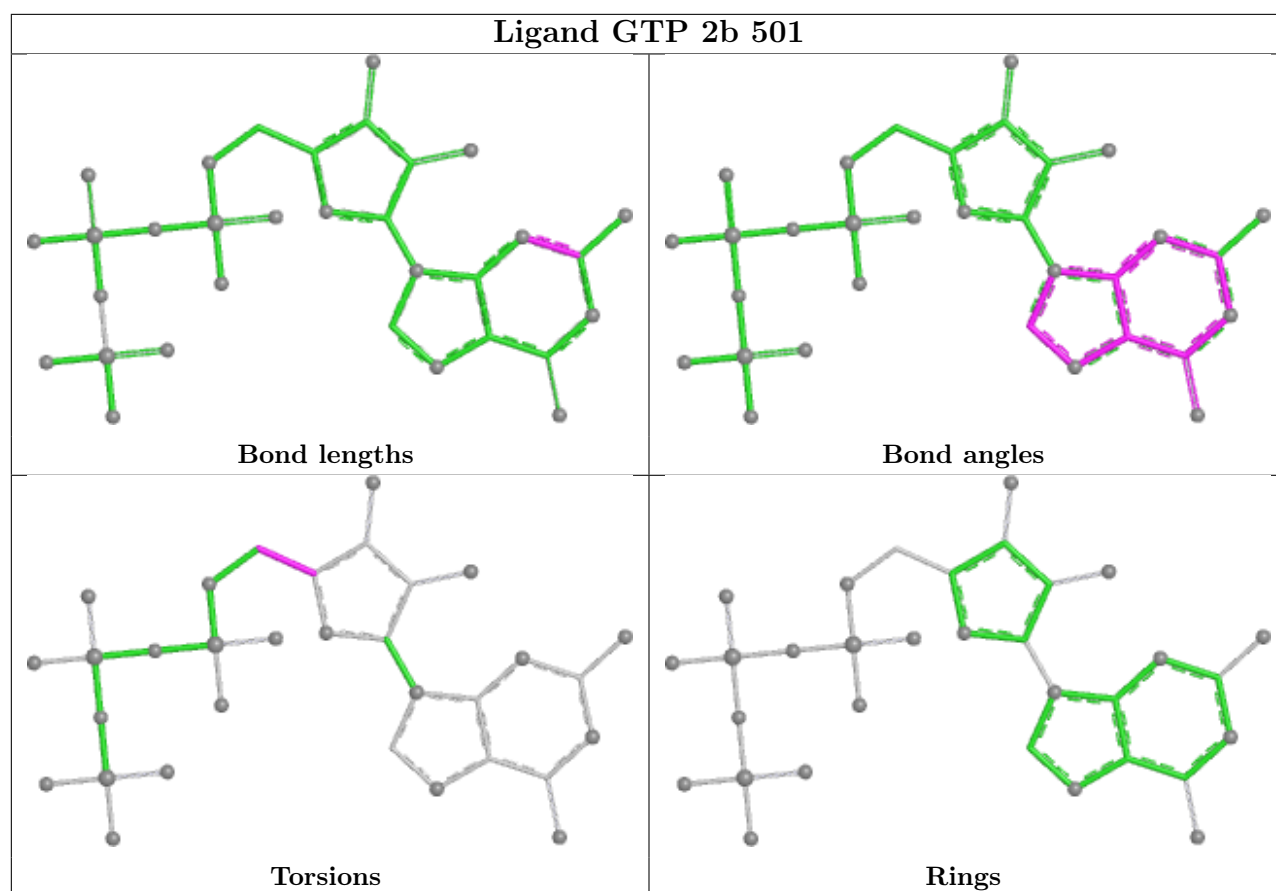


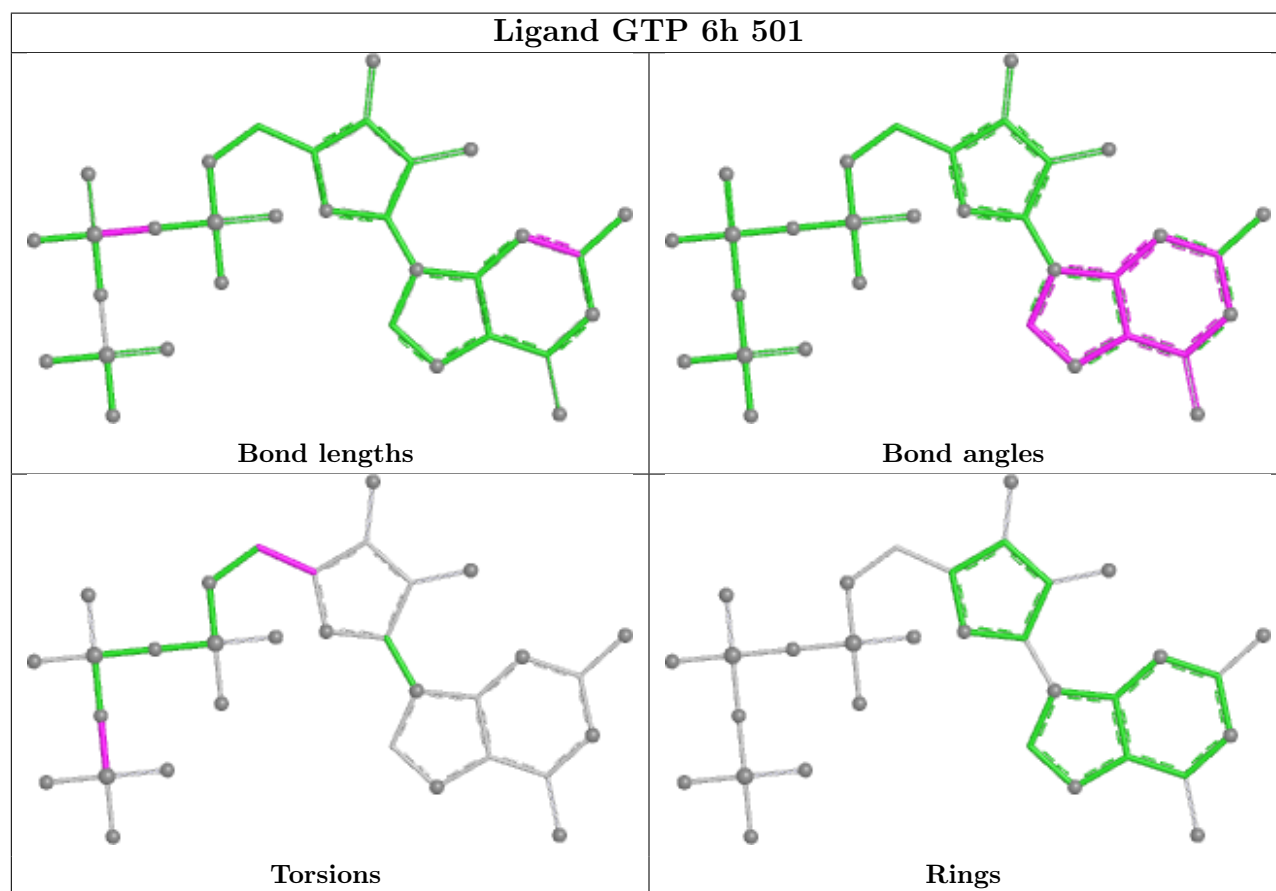
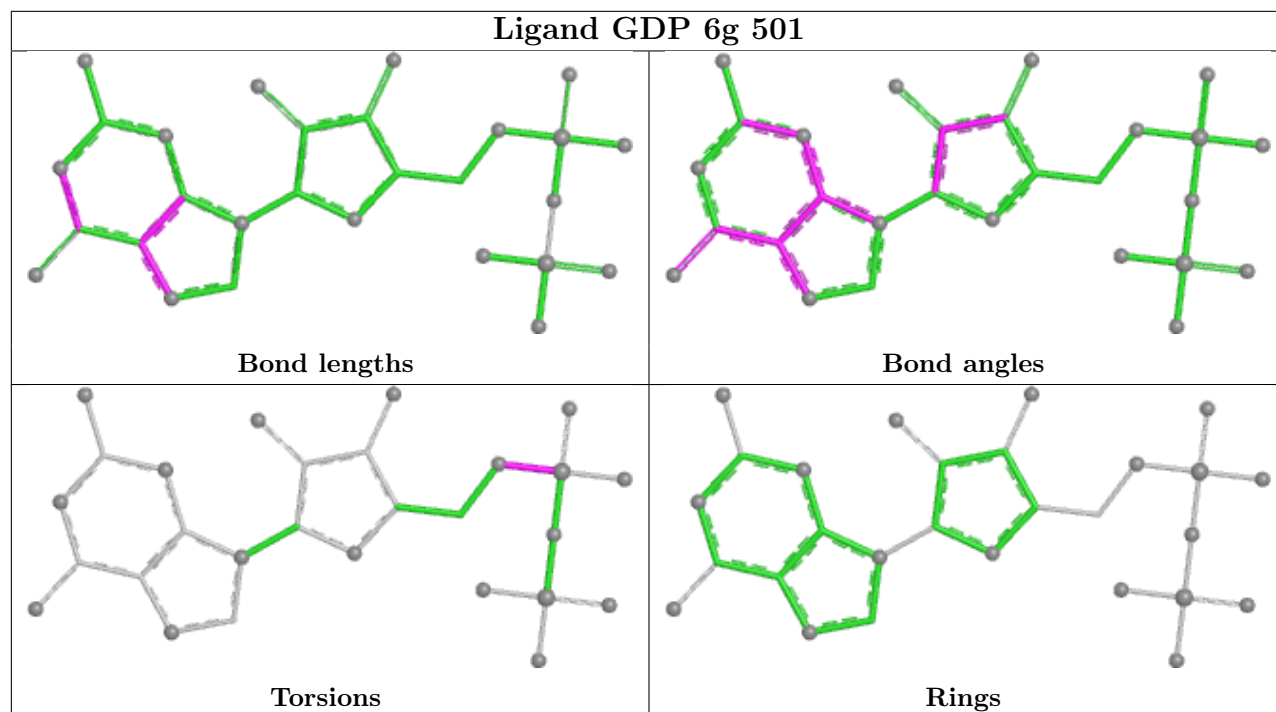


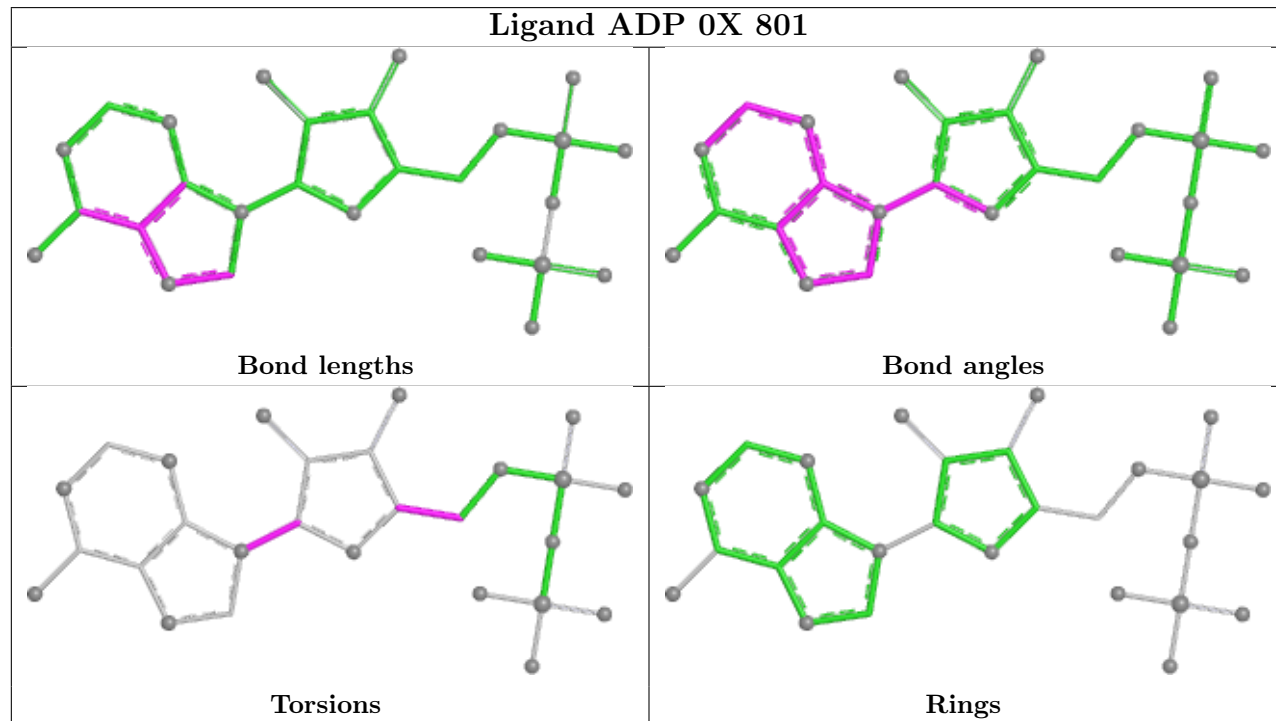
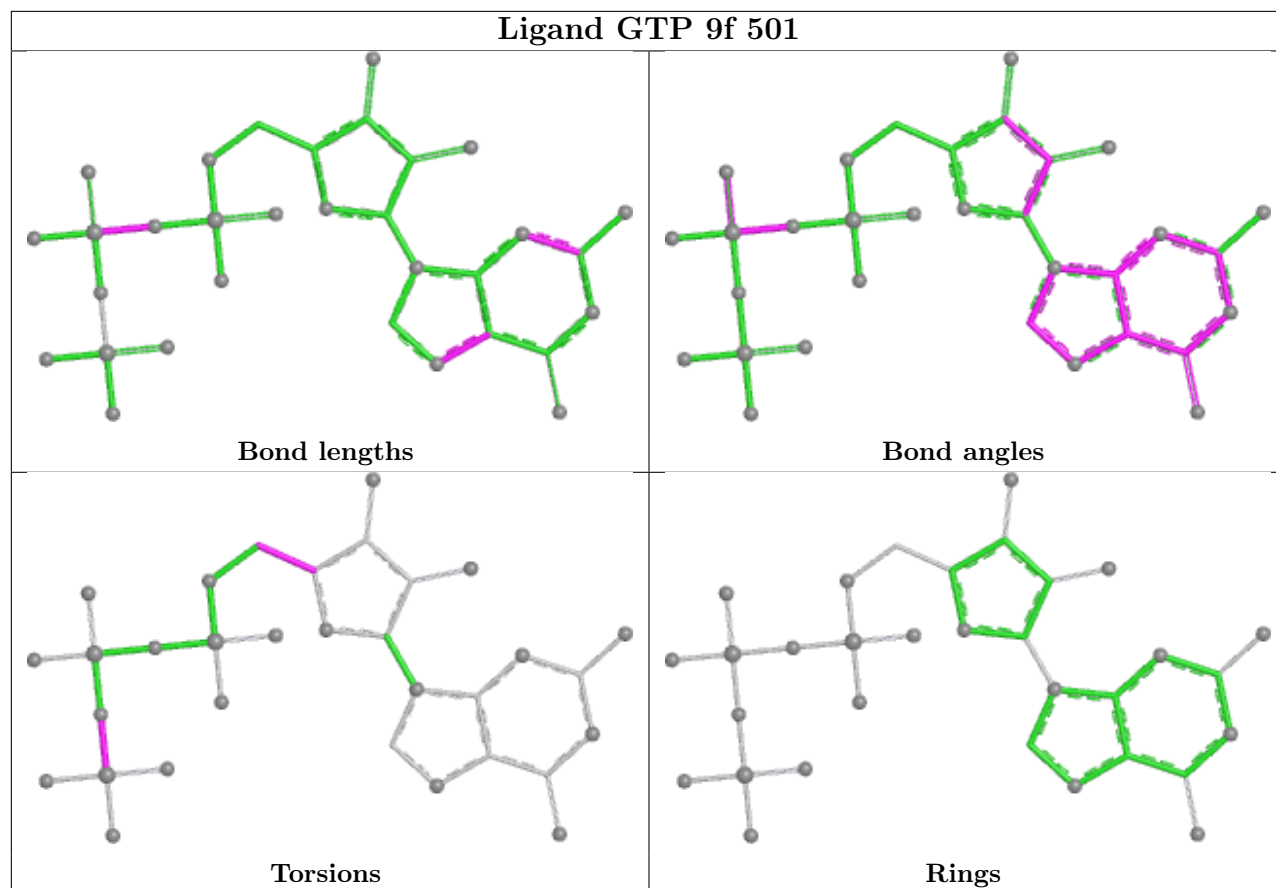


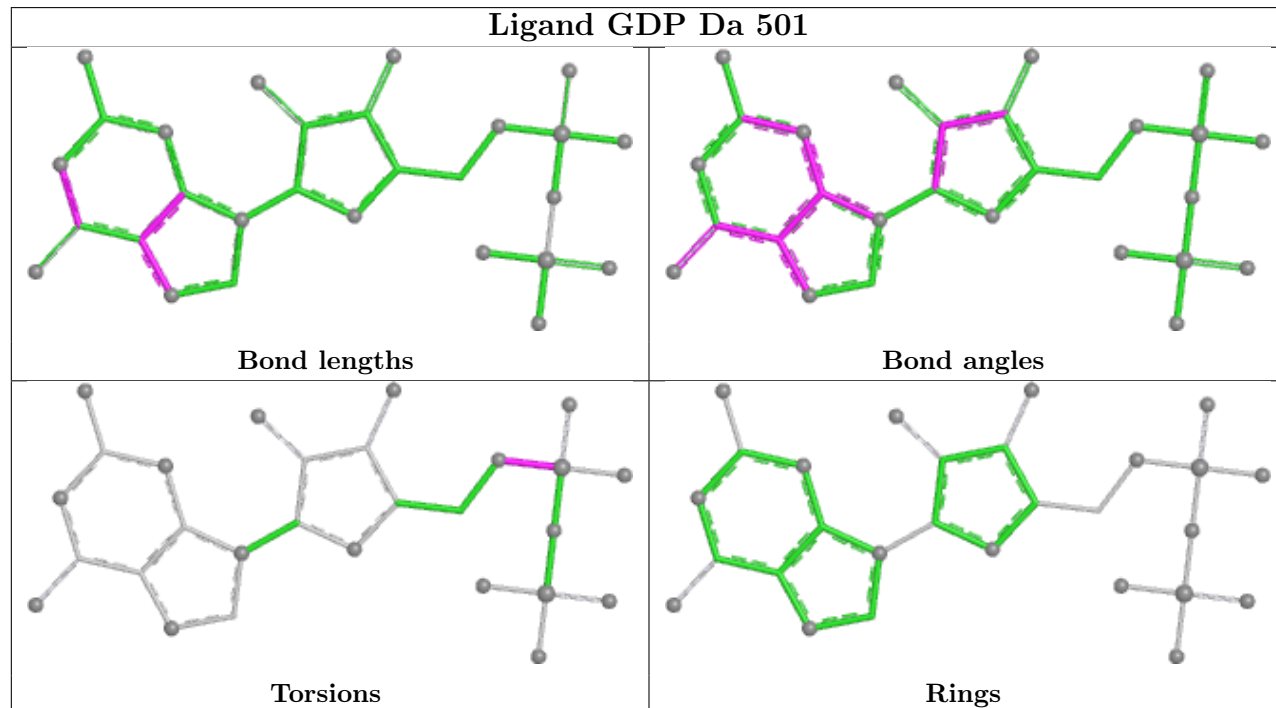
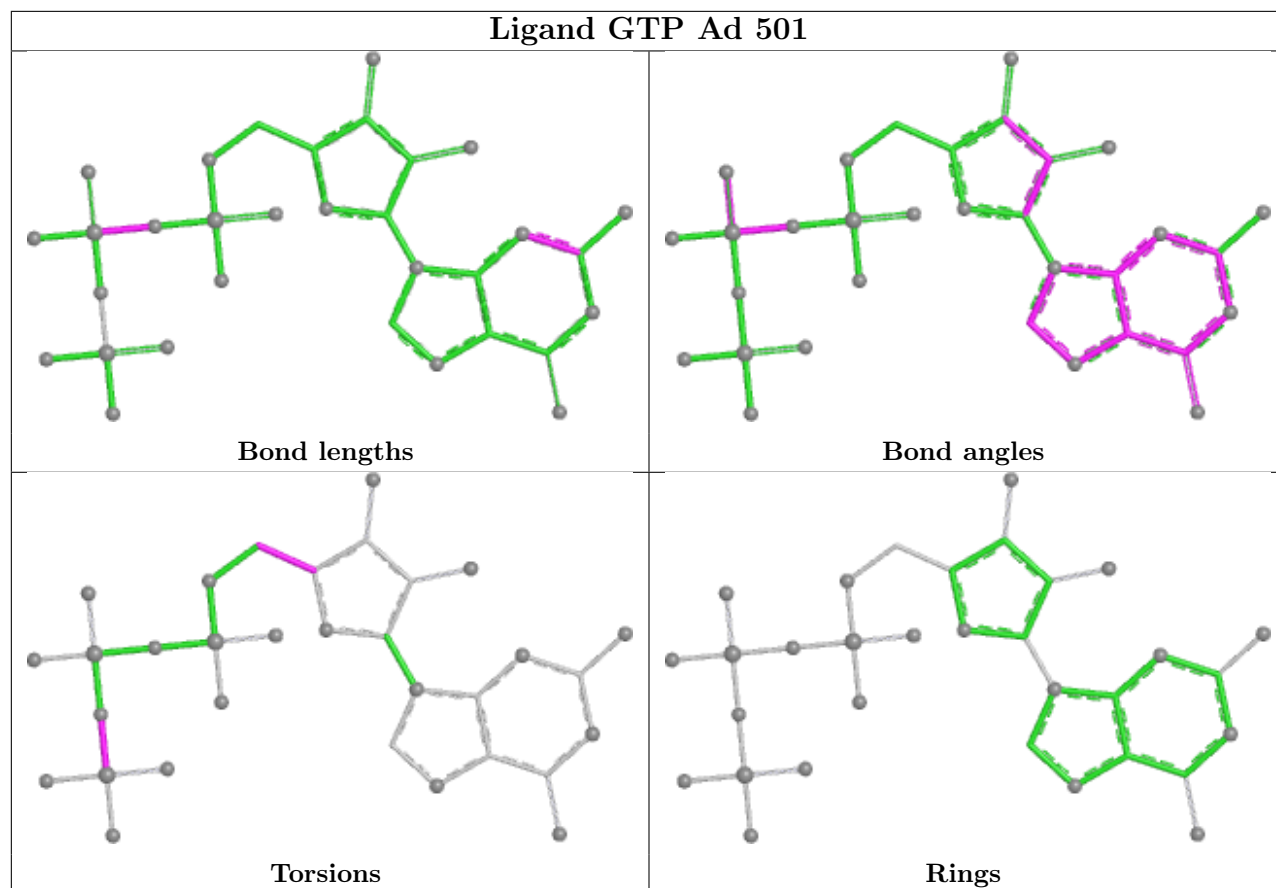


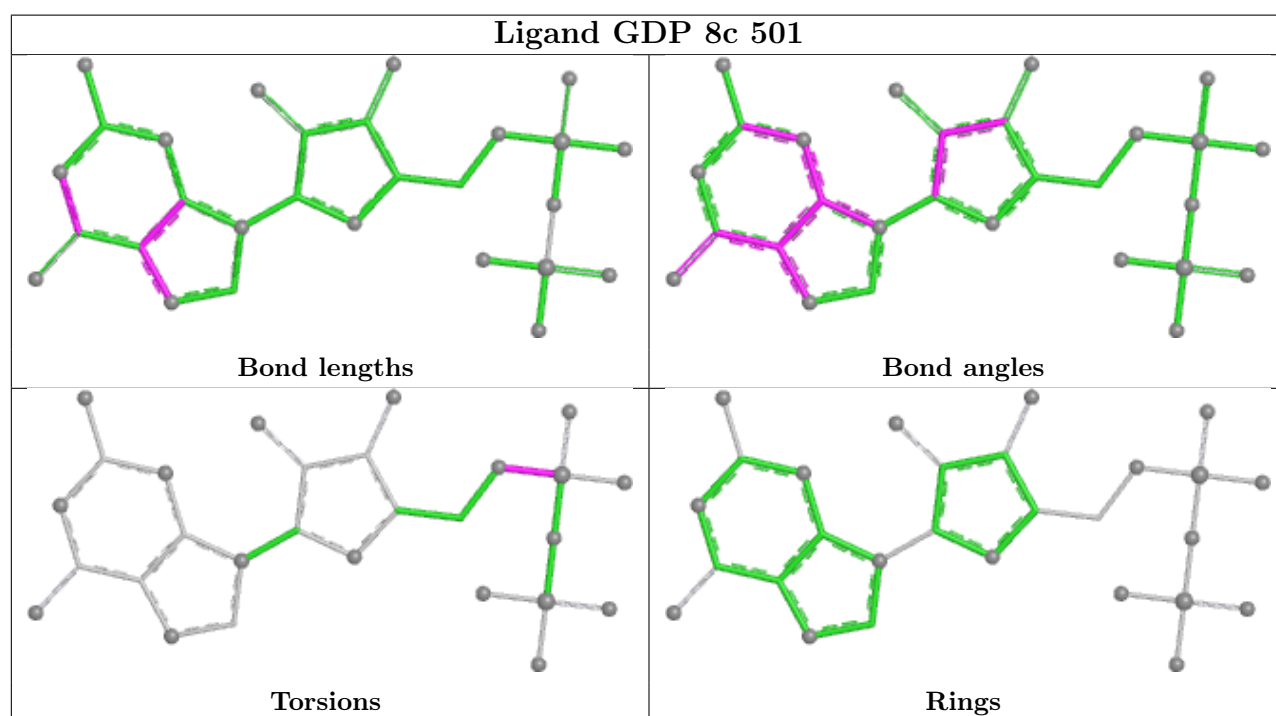
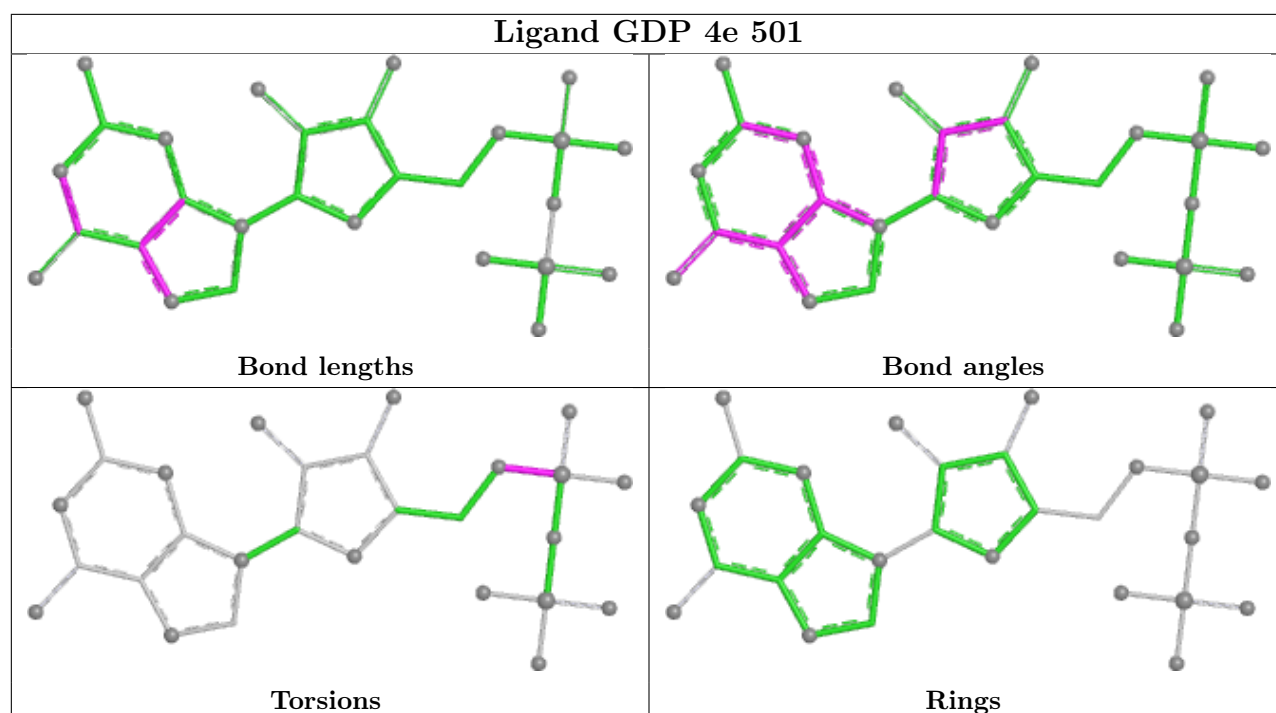


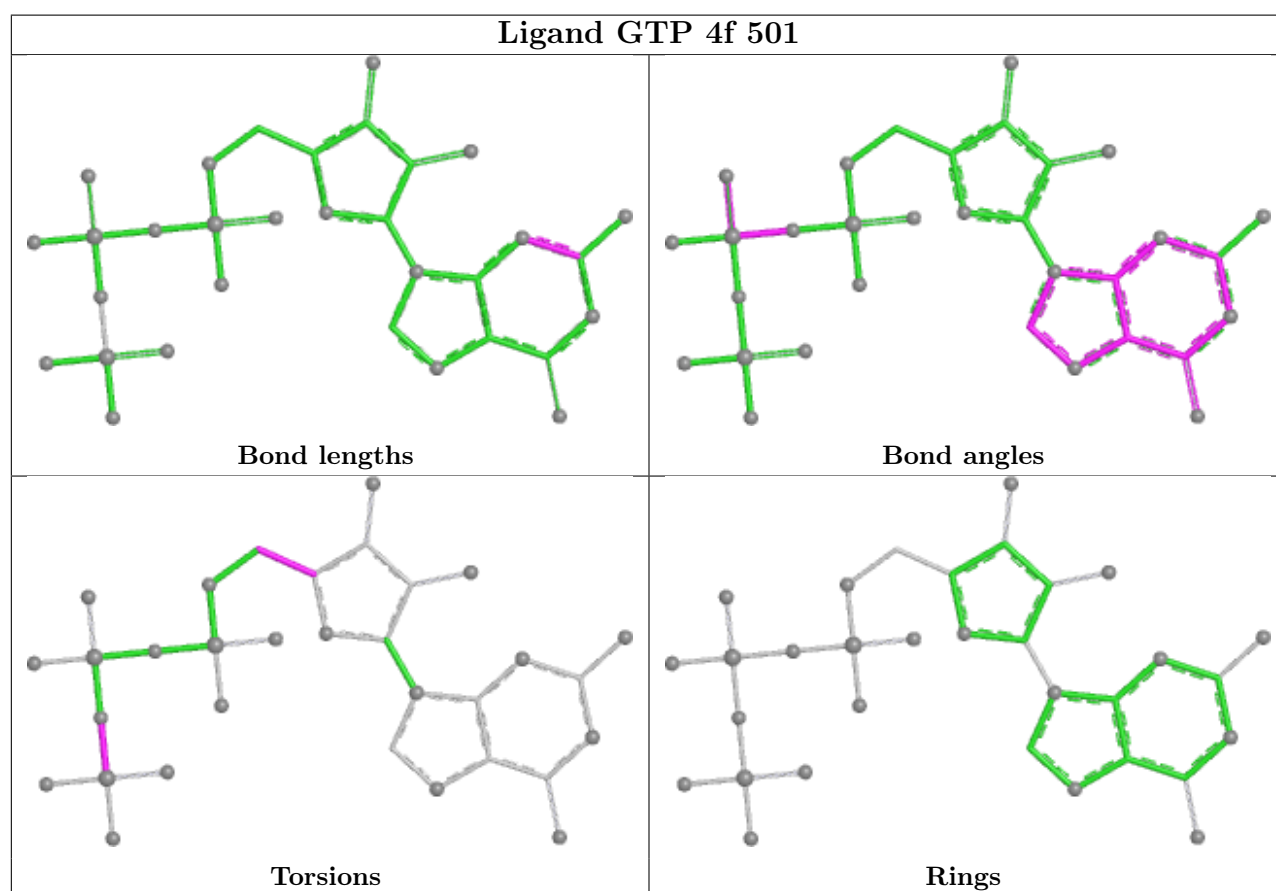
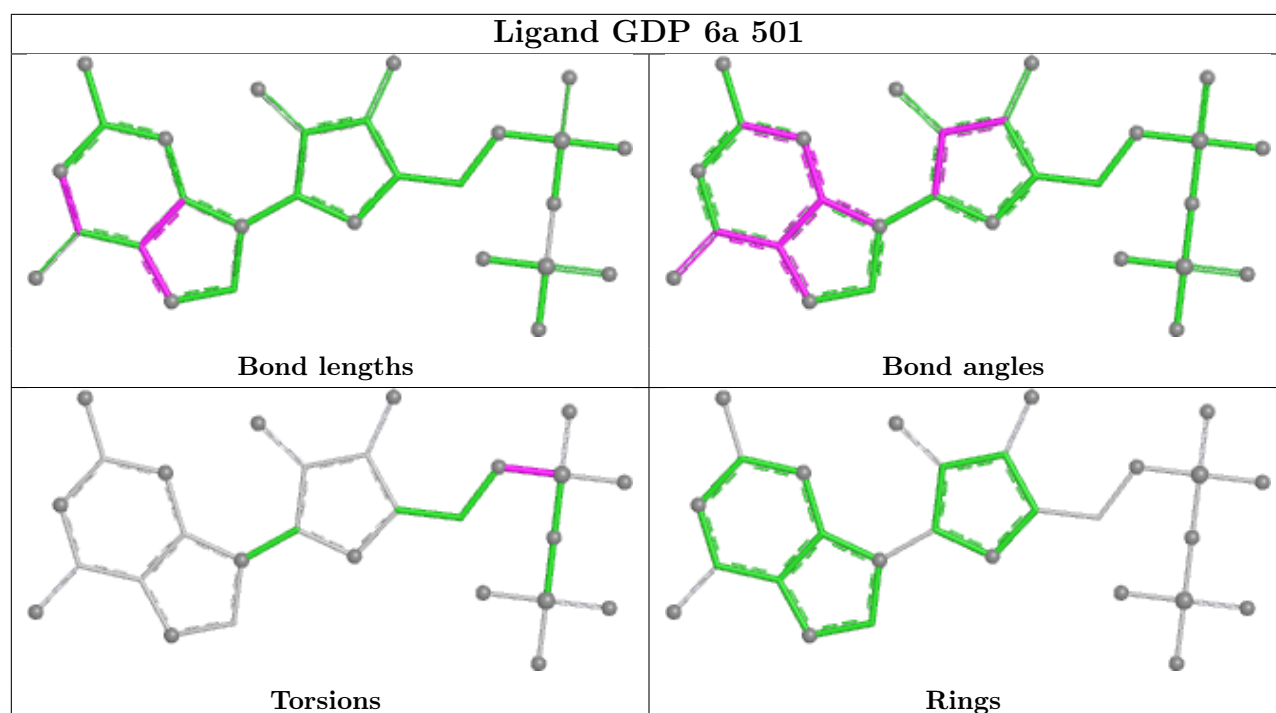




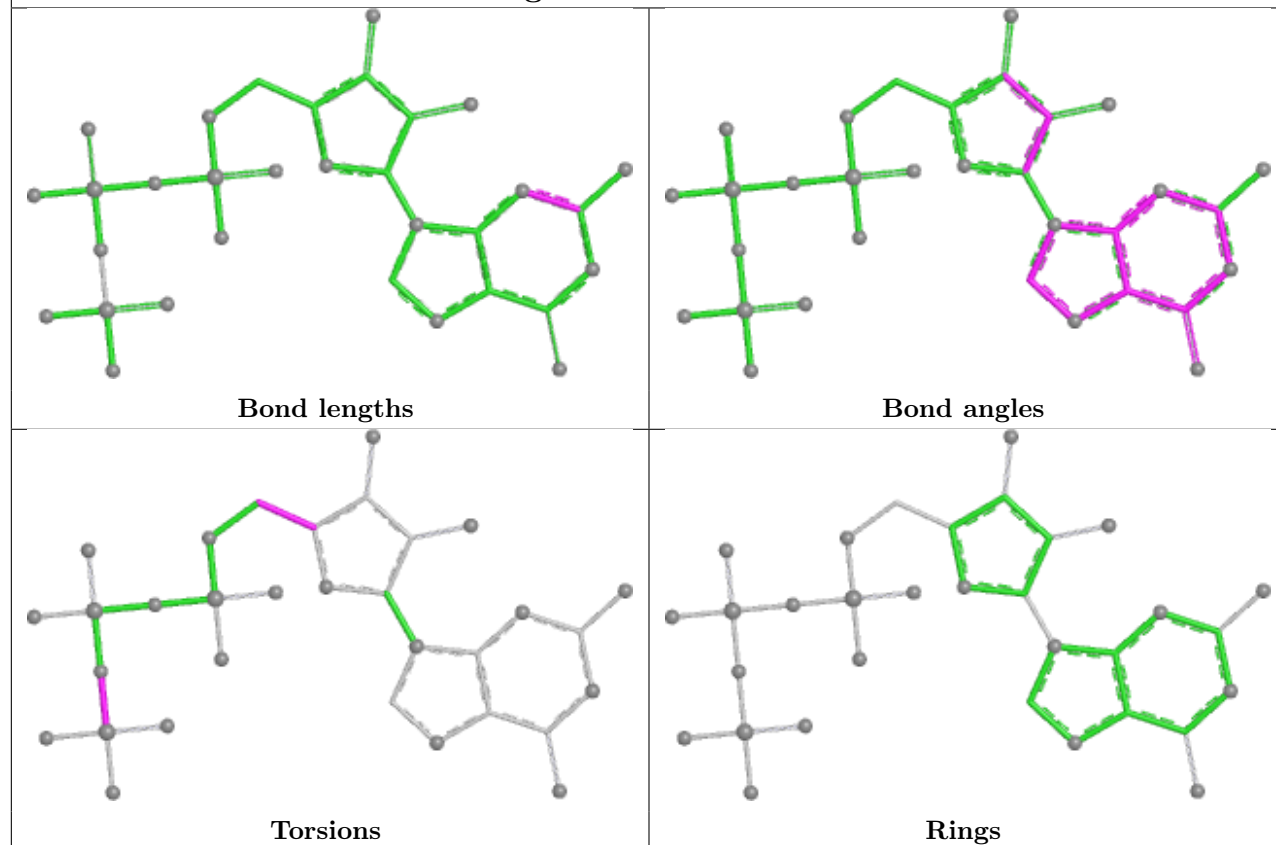




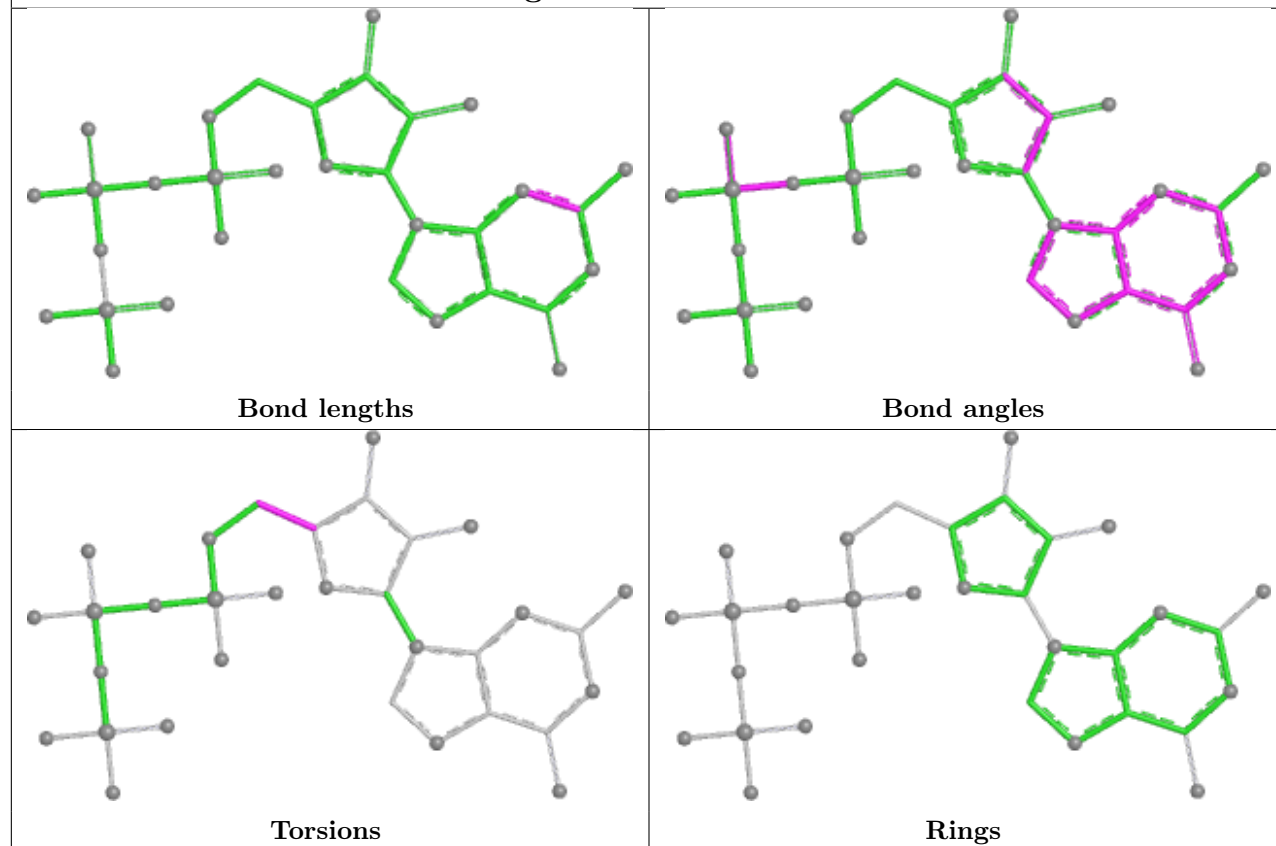


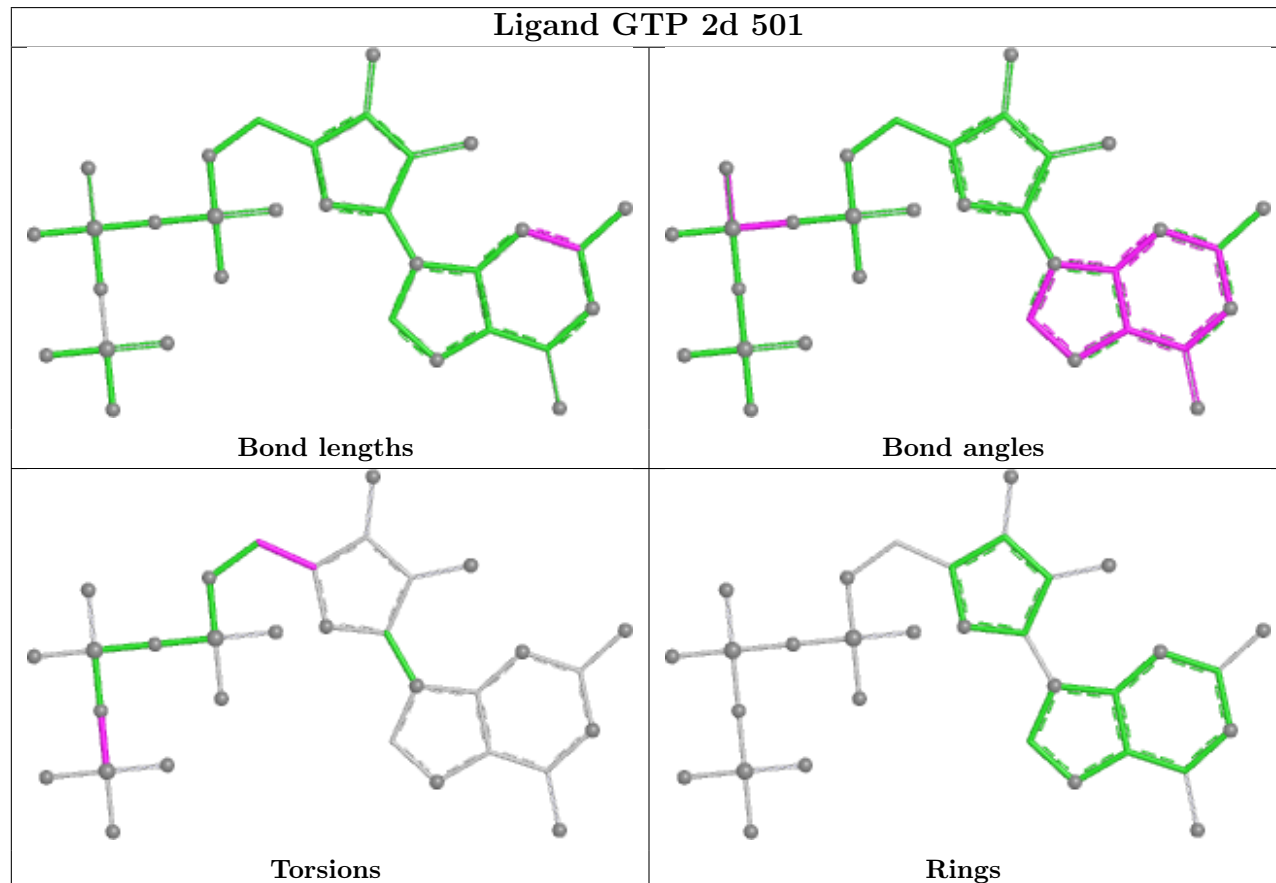
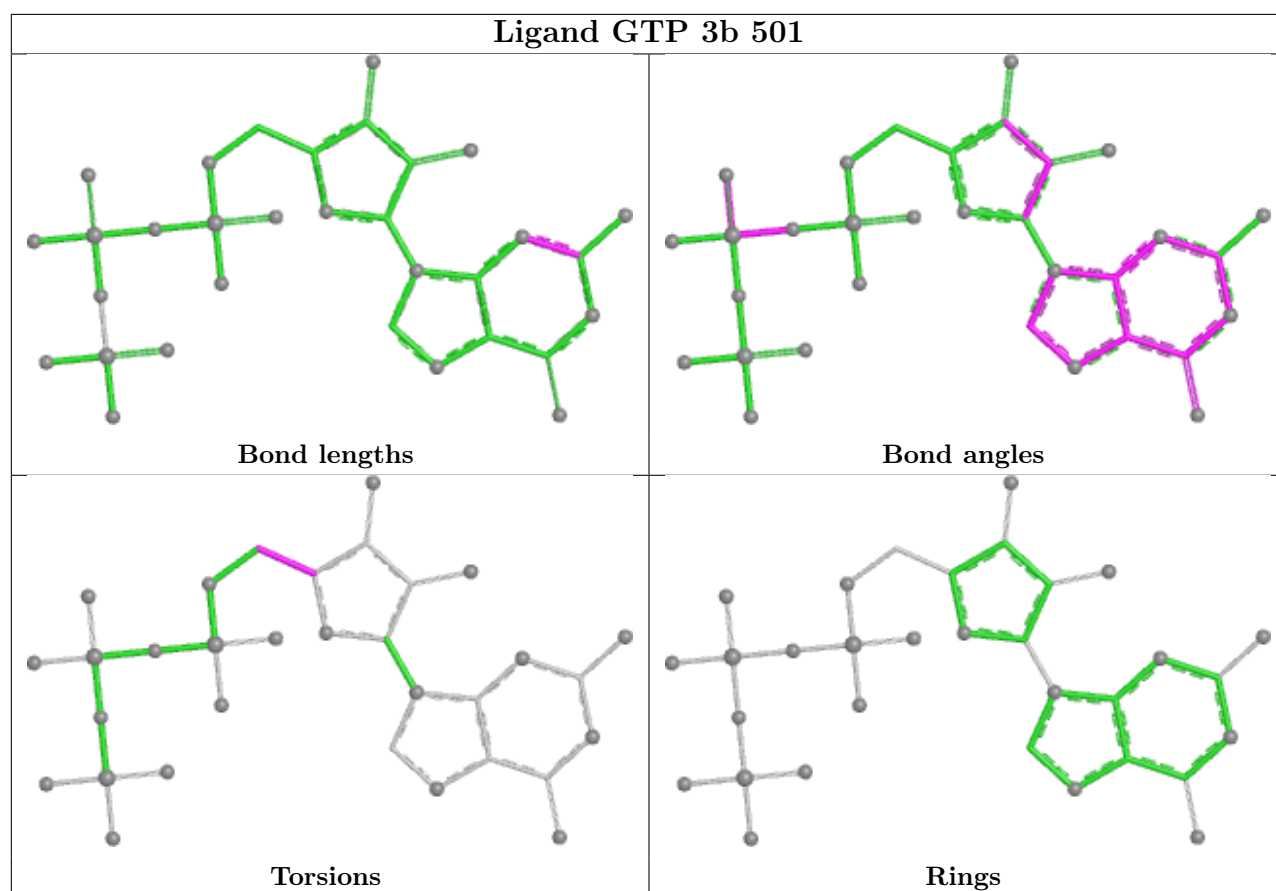


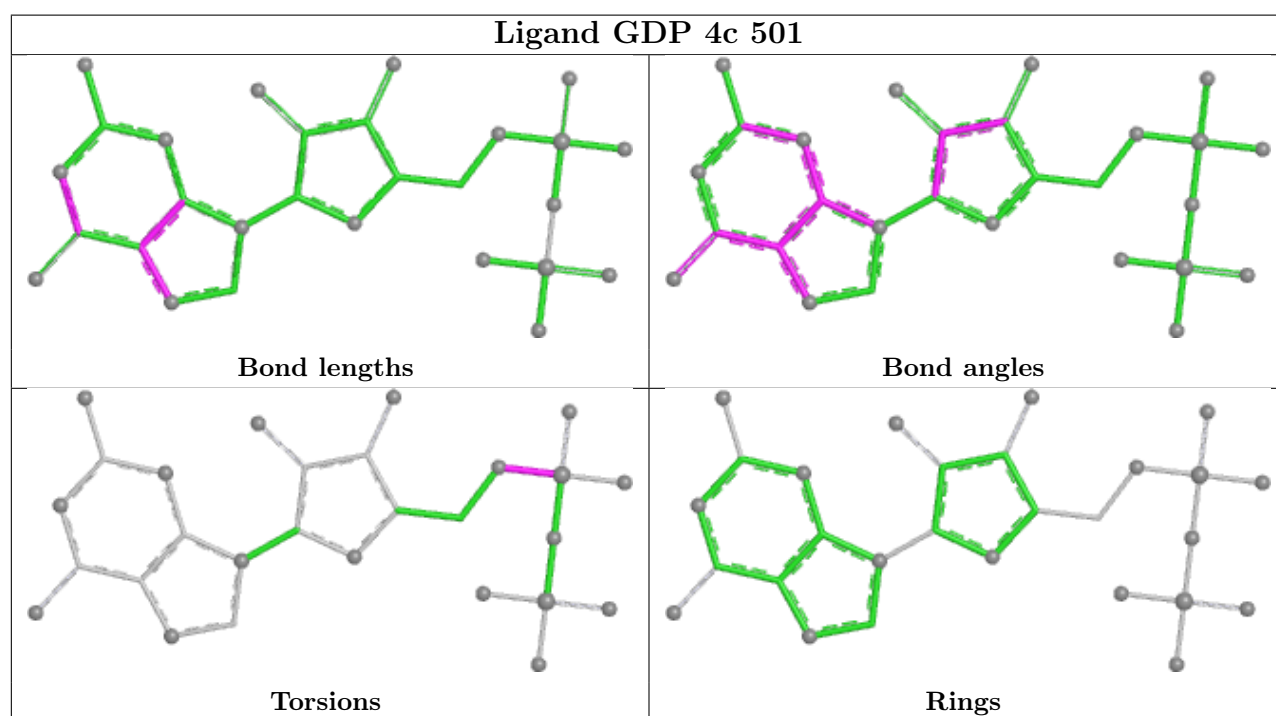
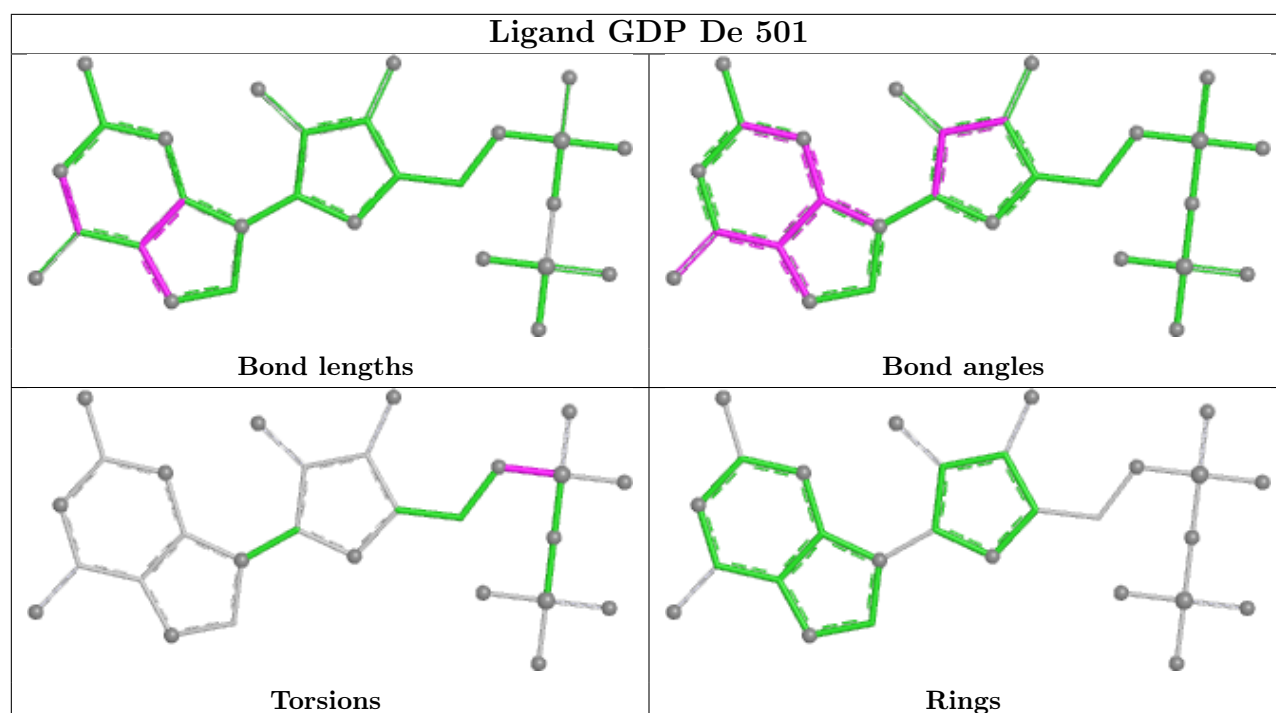
Ligand GTP 4b 501

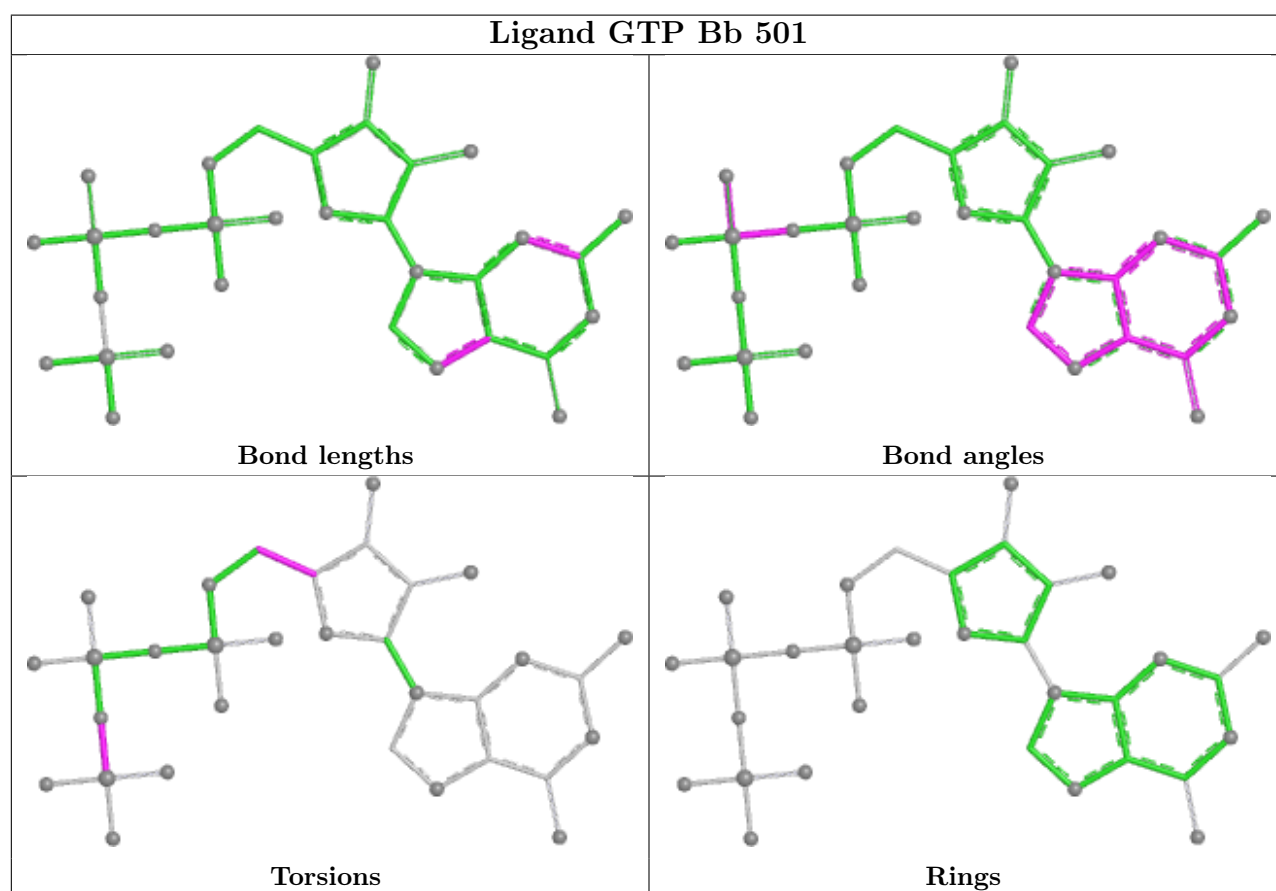
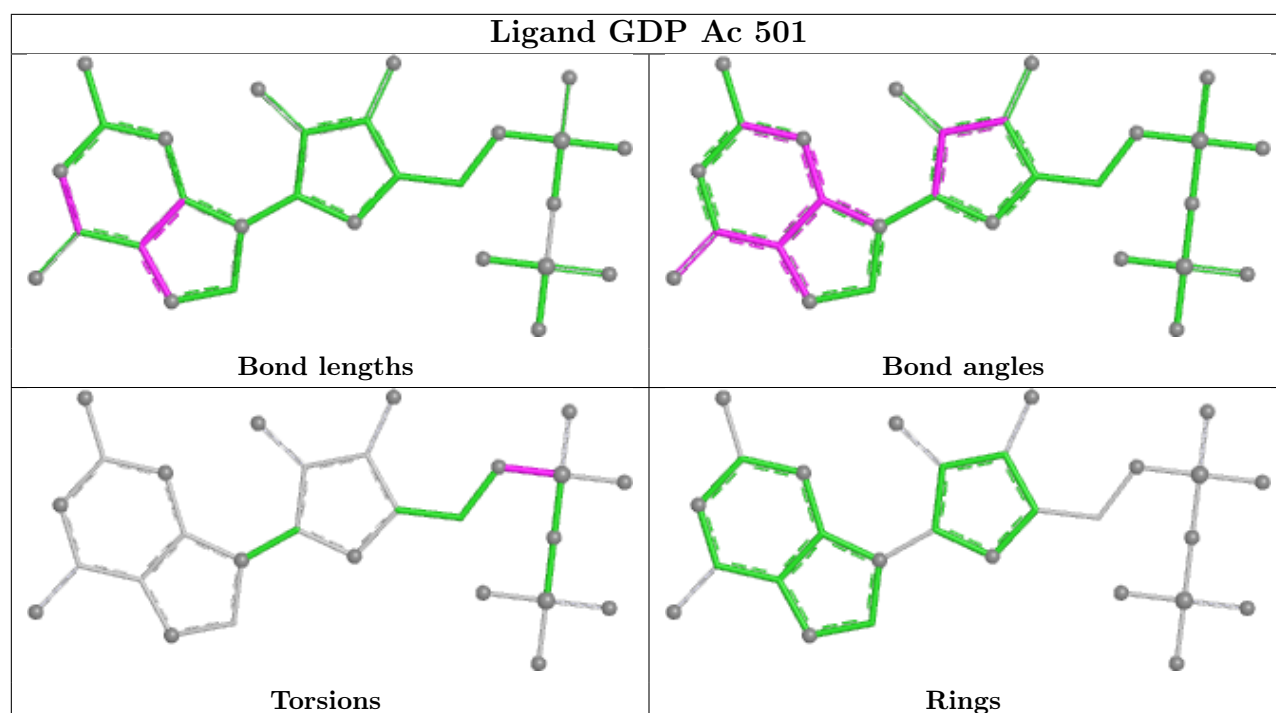


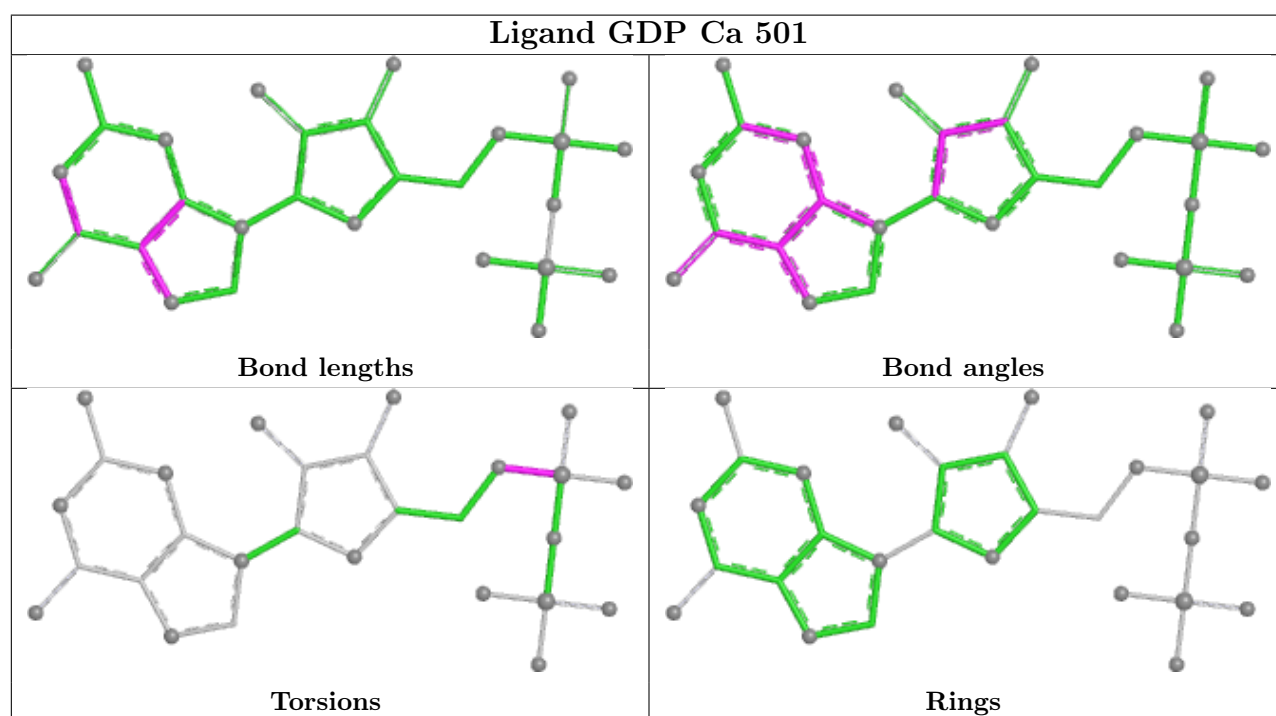
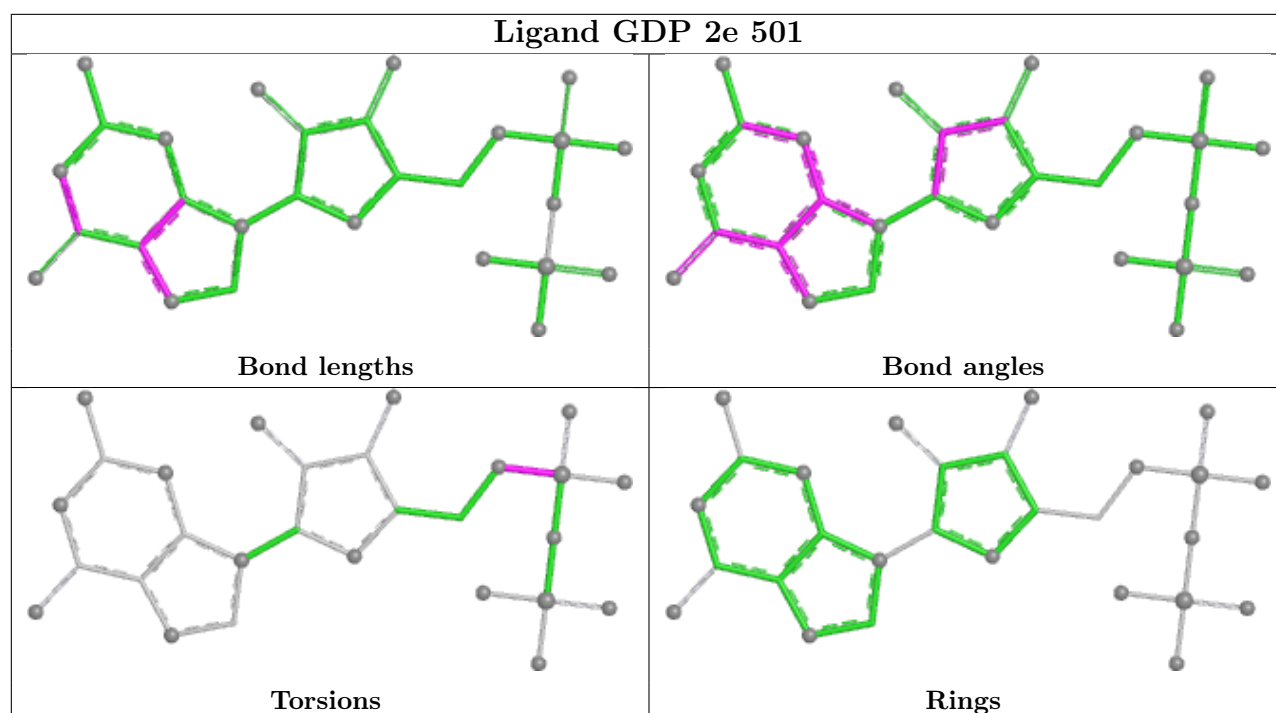
Ligand GTP 4h 501

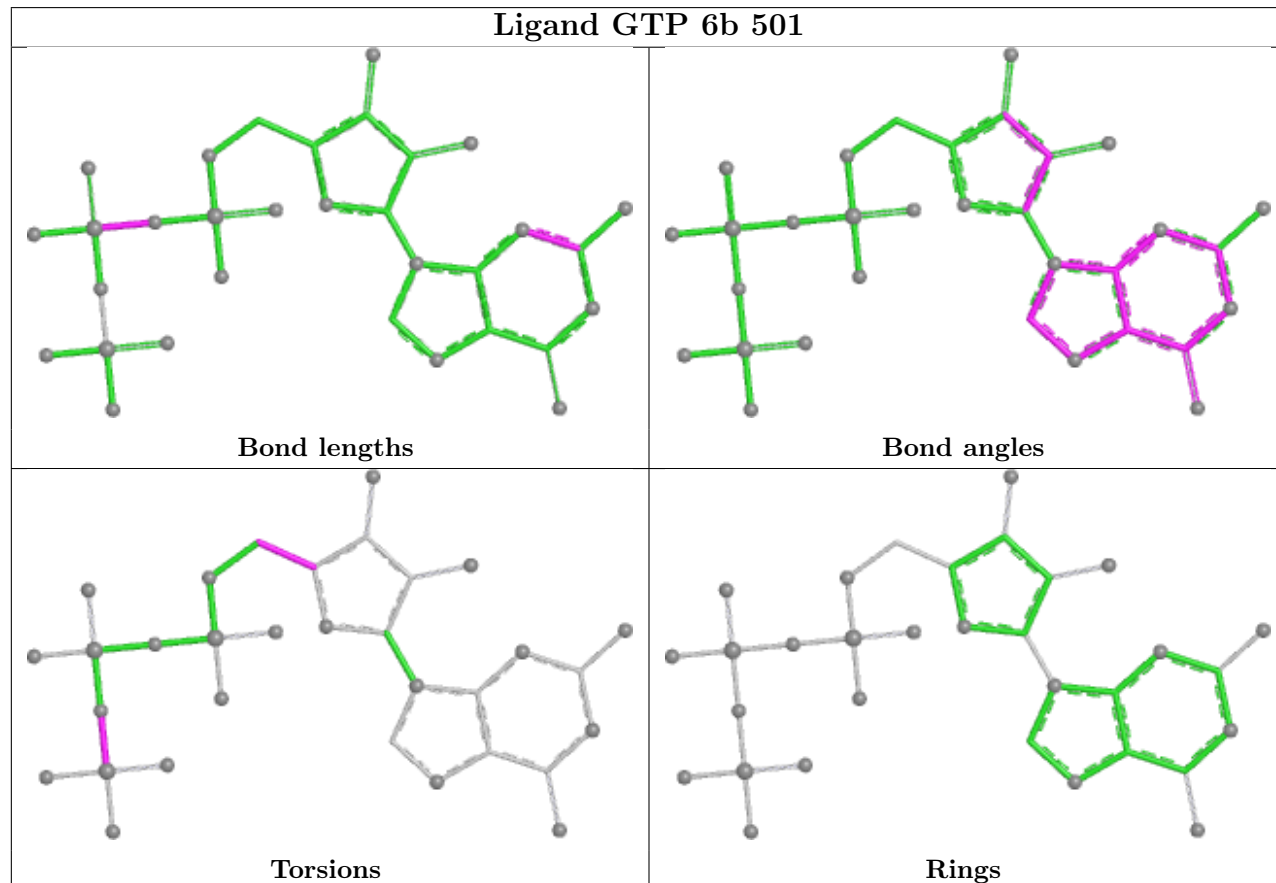
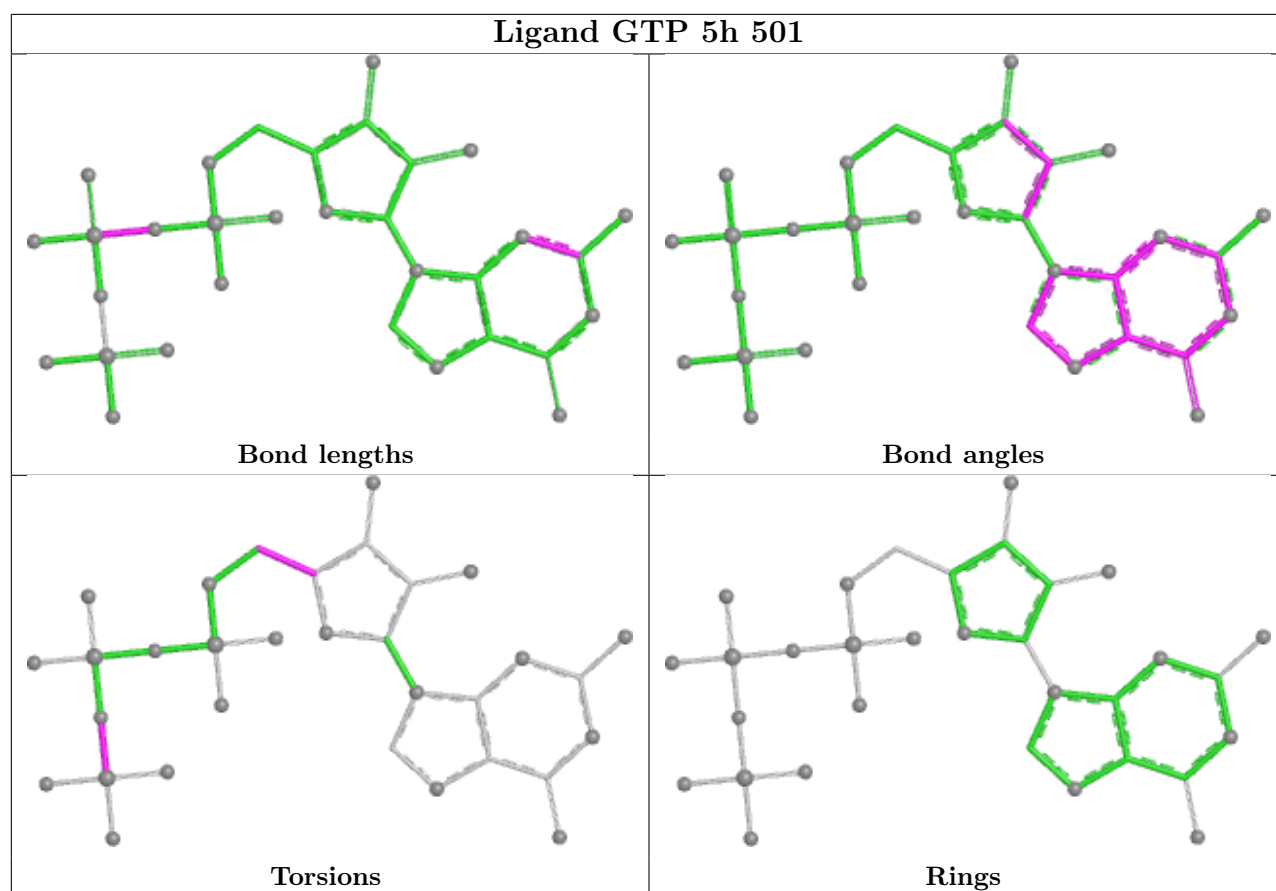


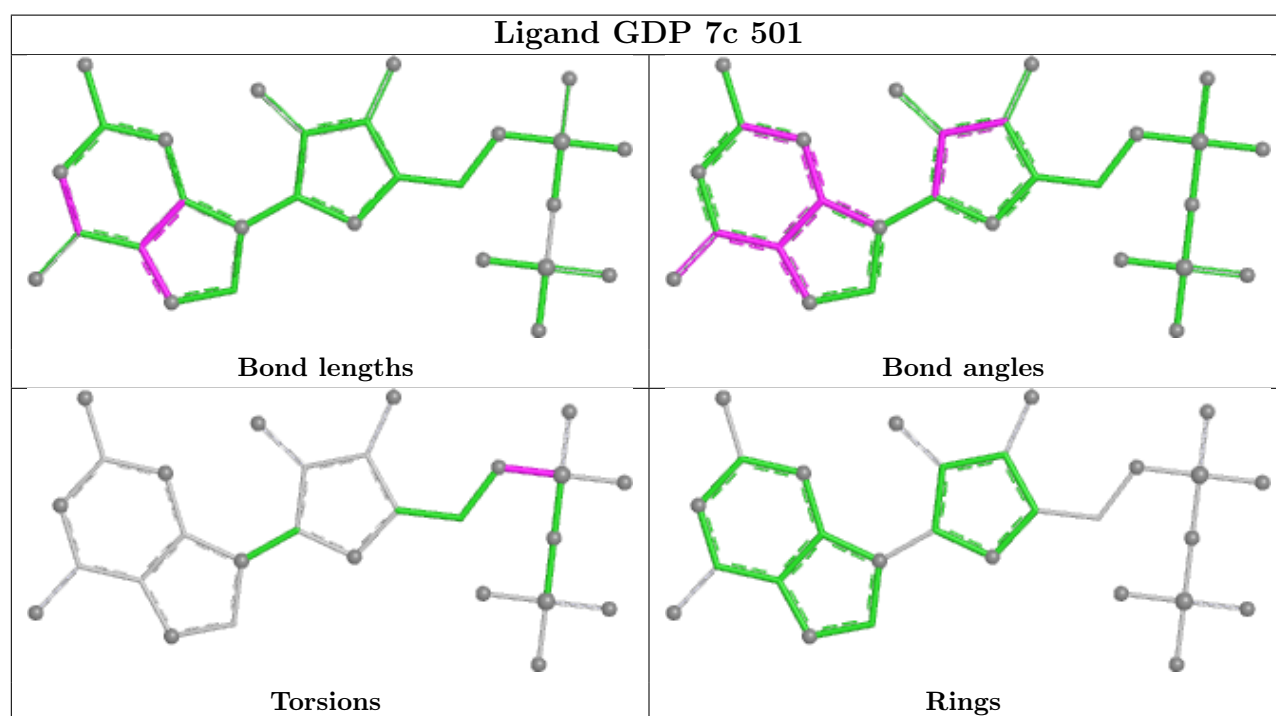
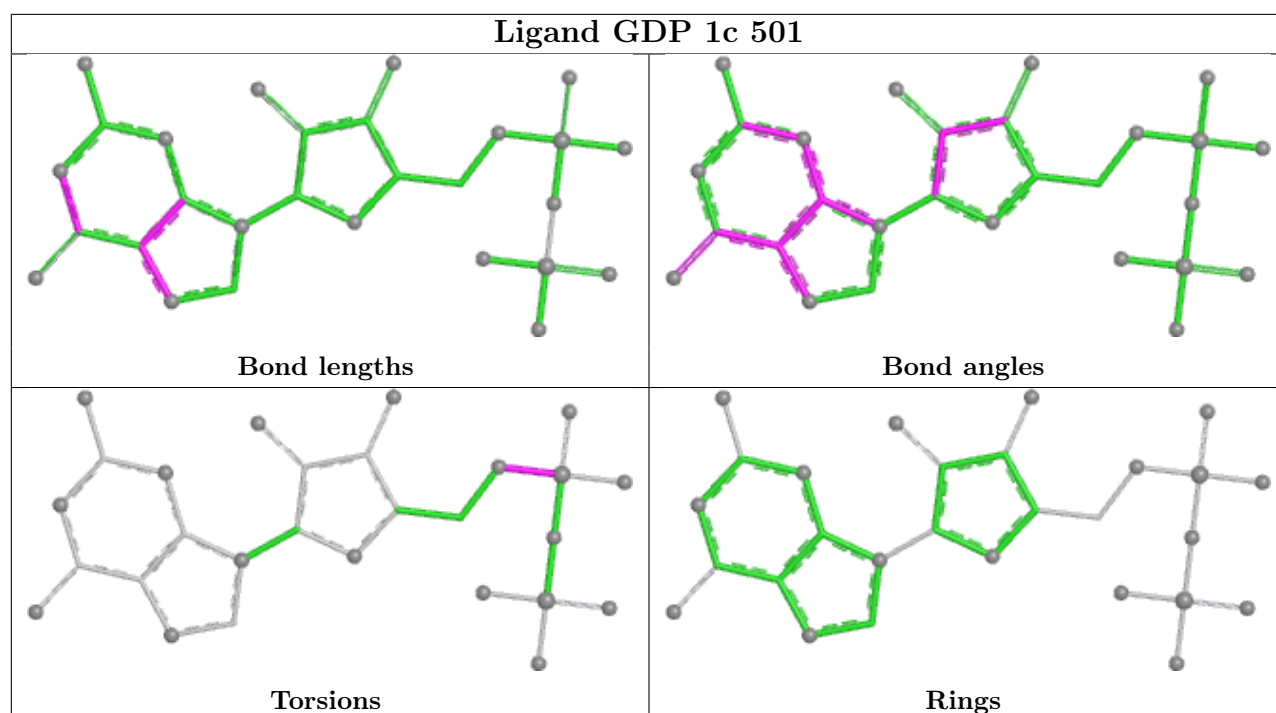


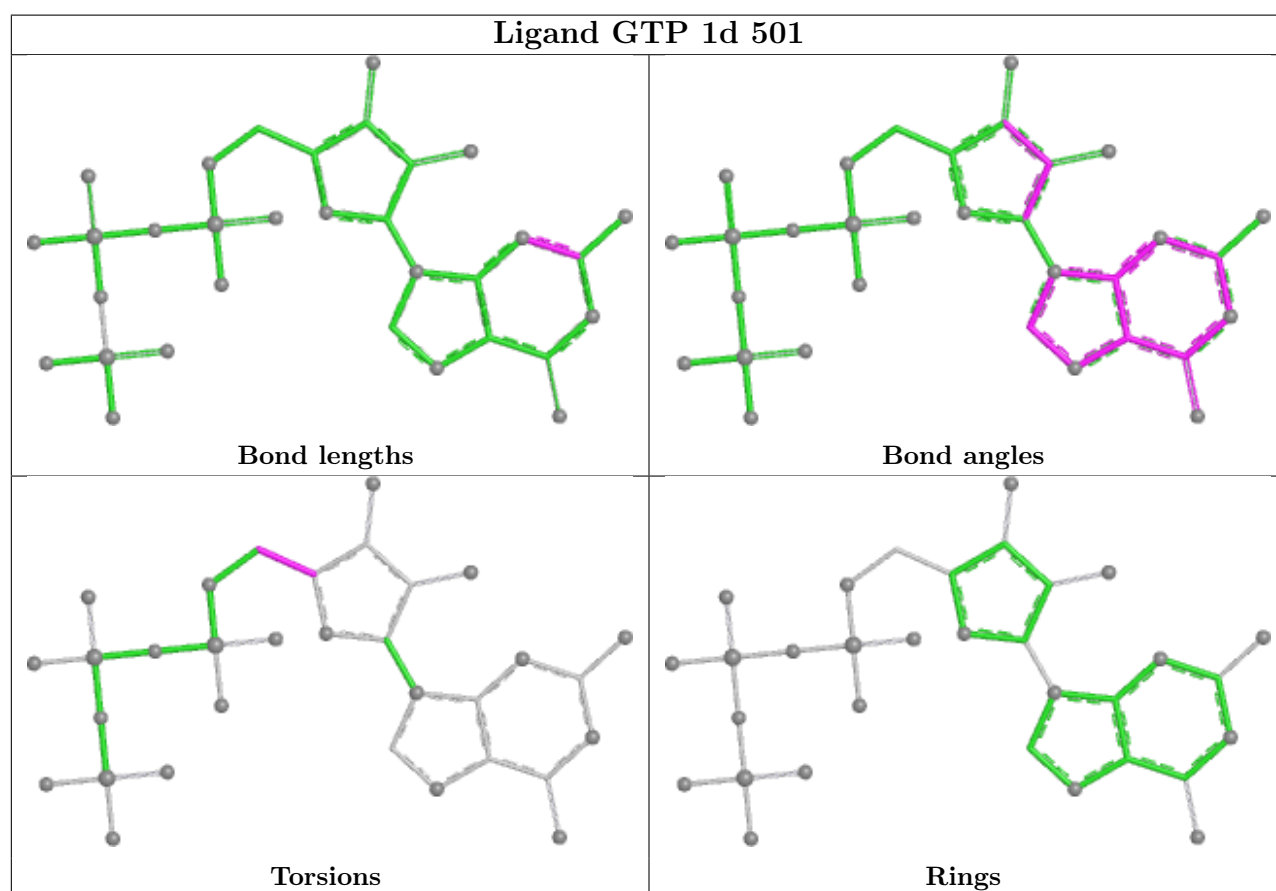
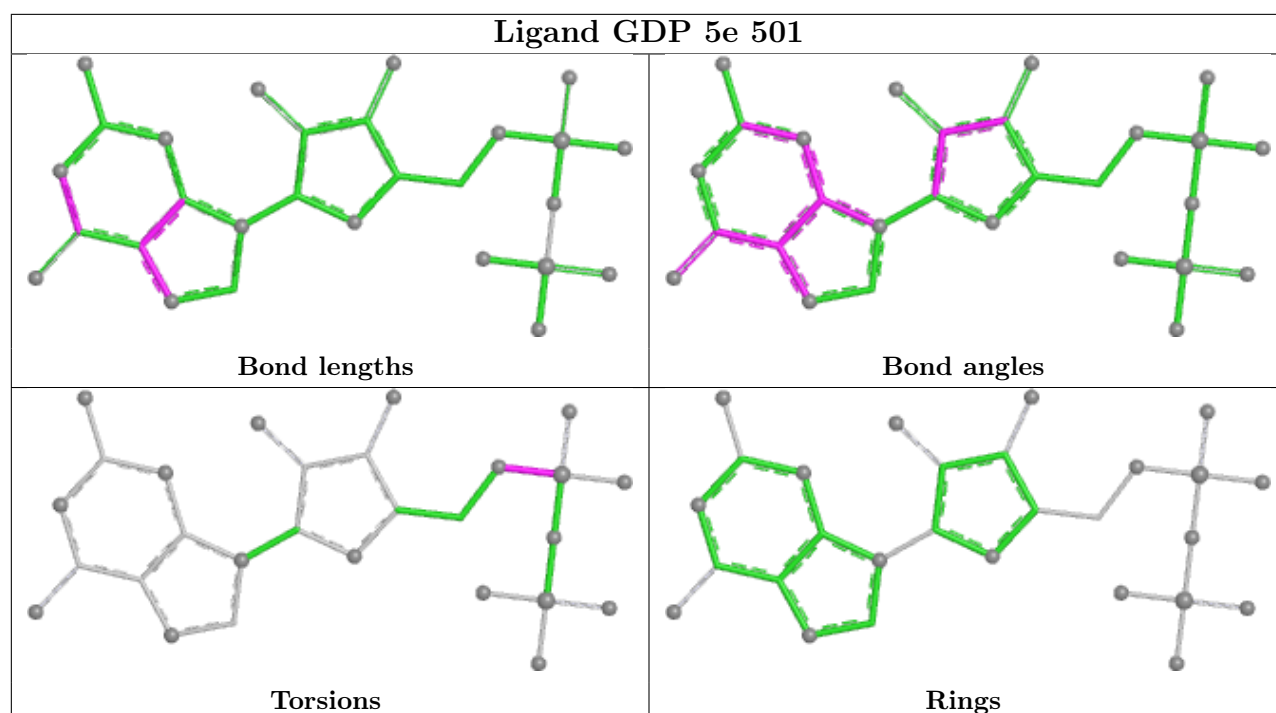




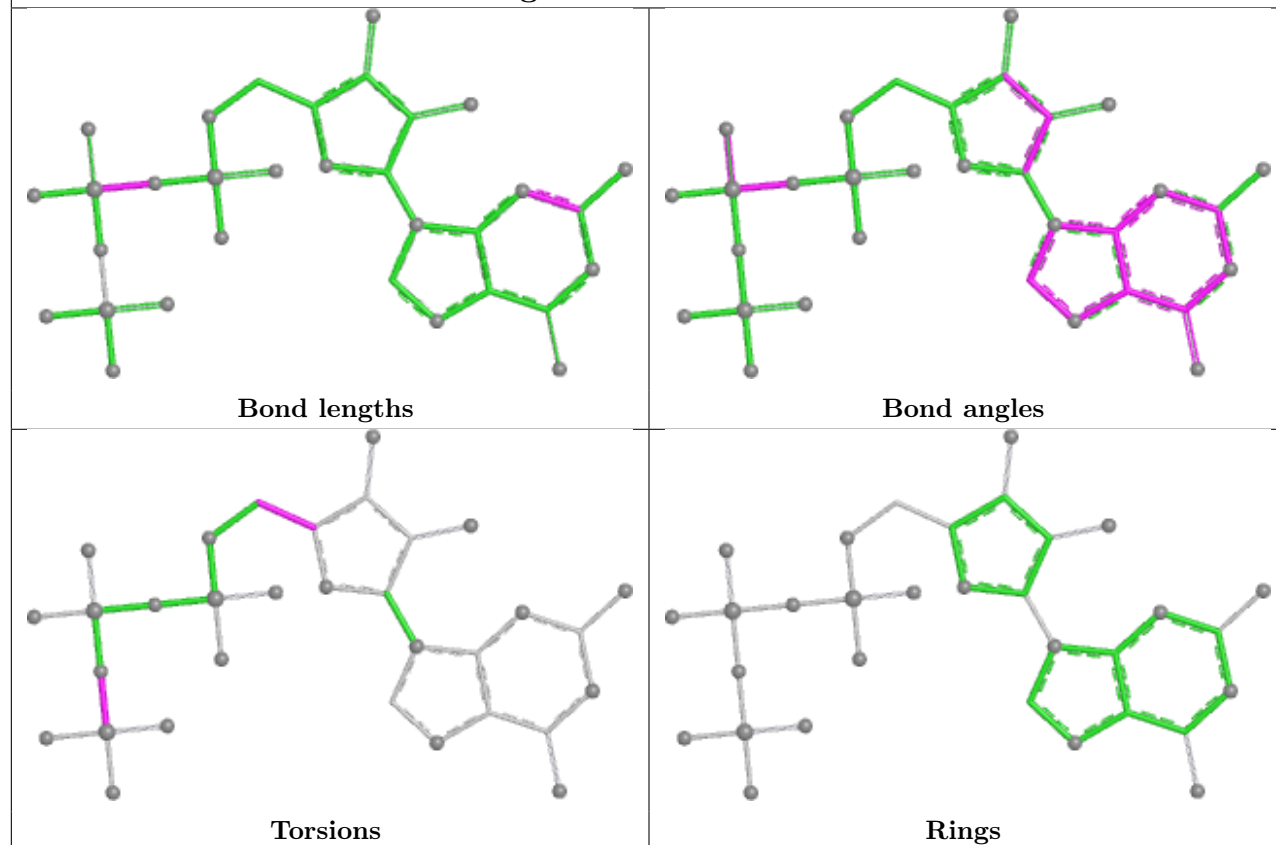




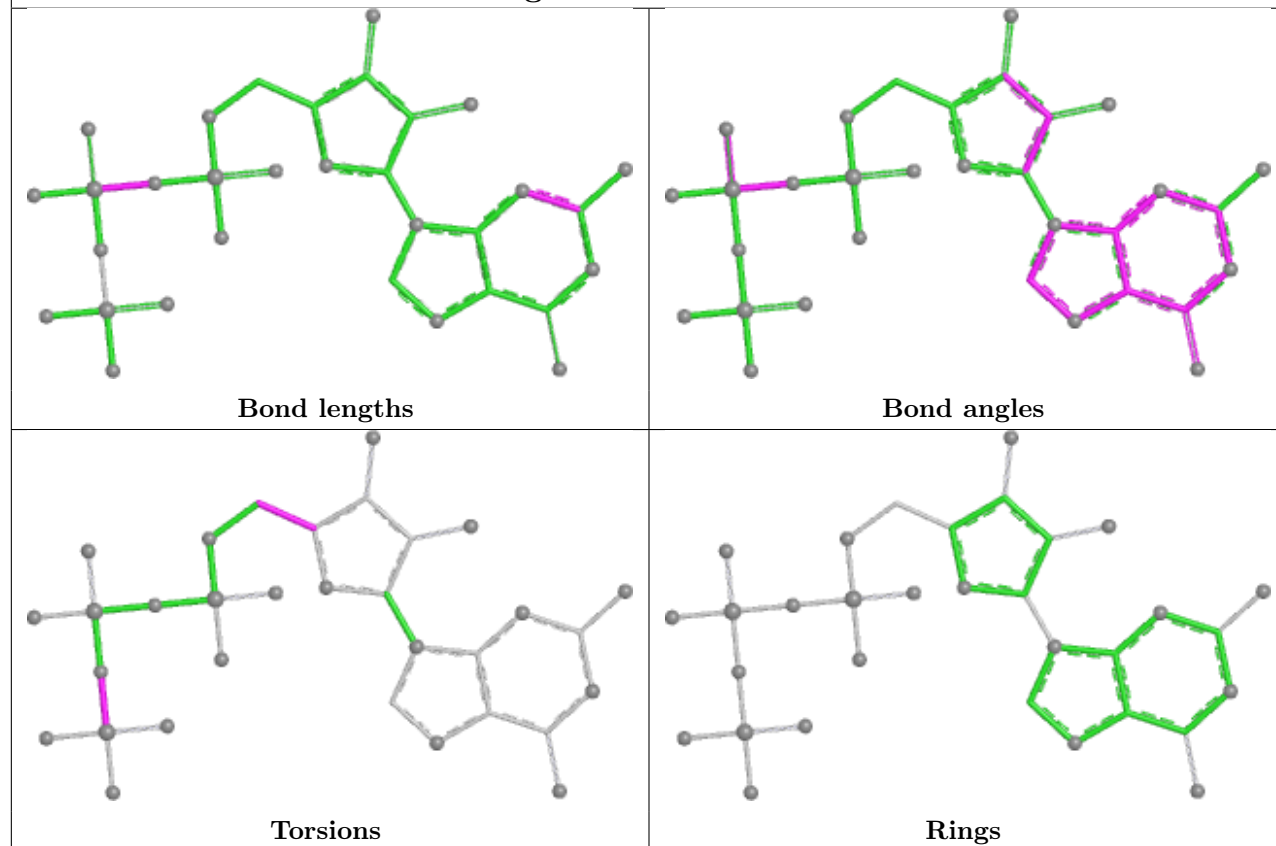


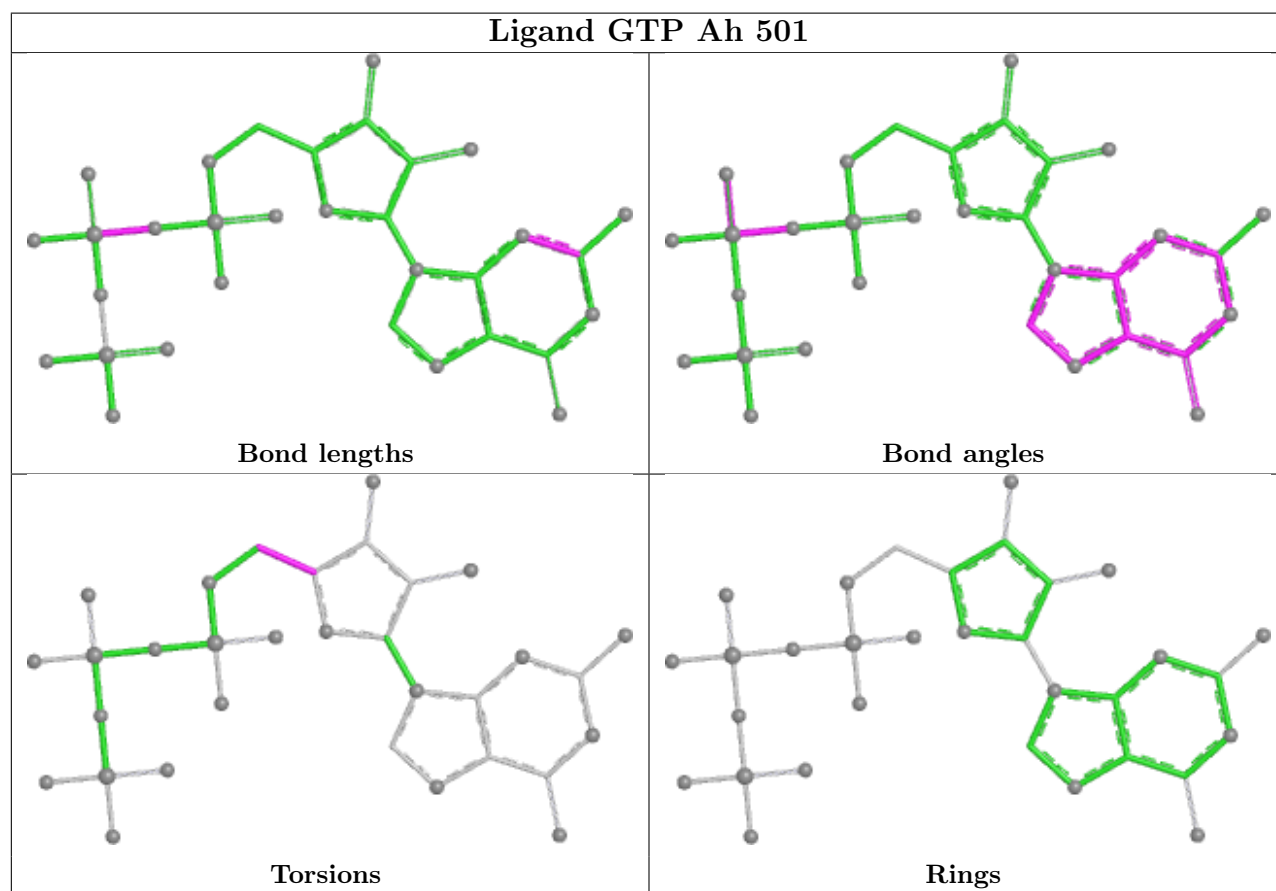
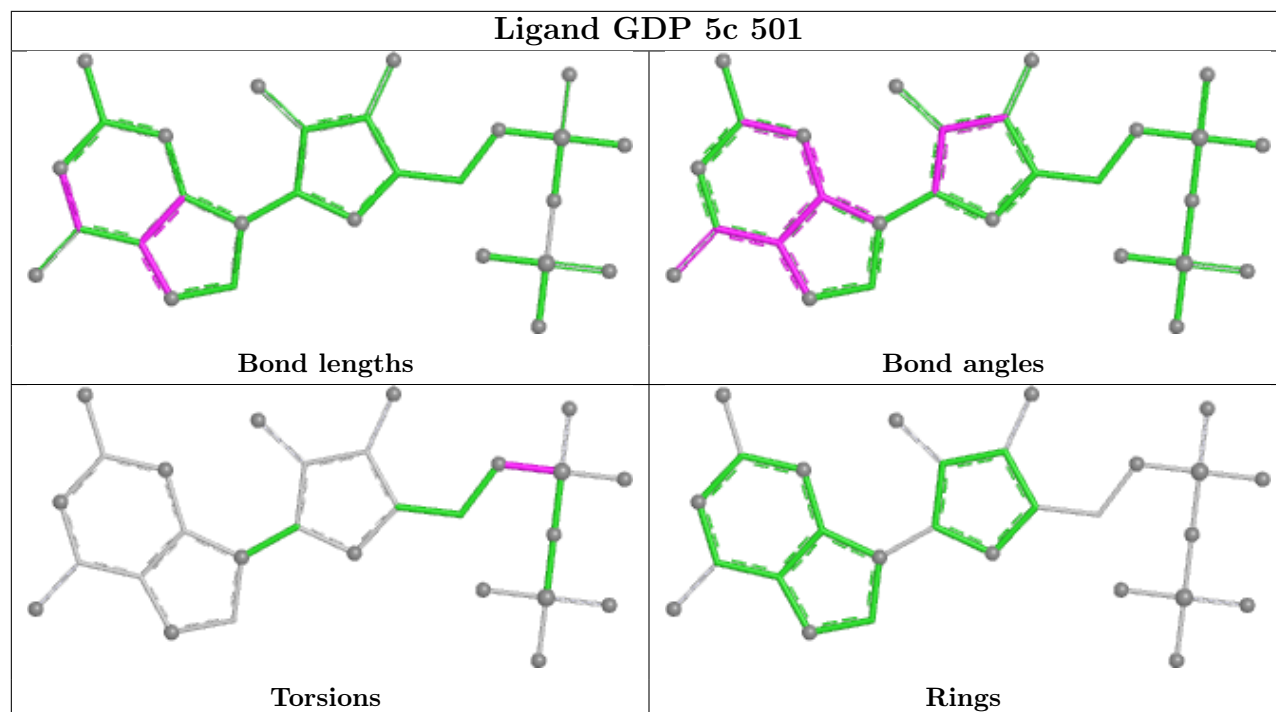


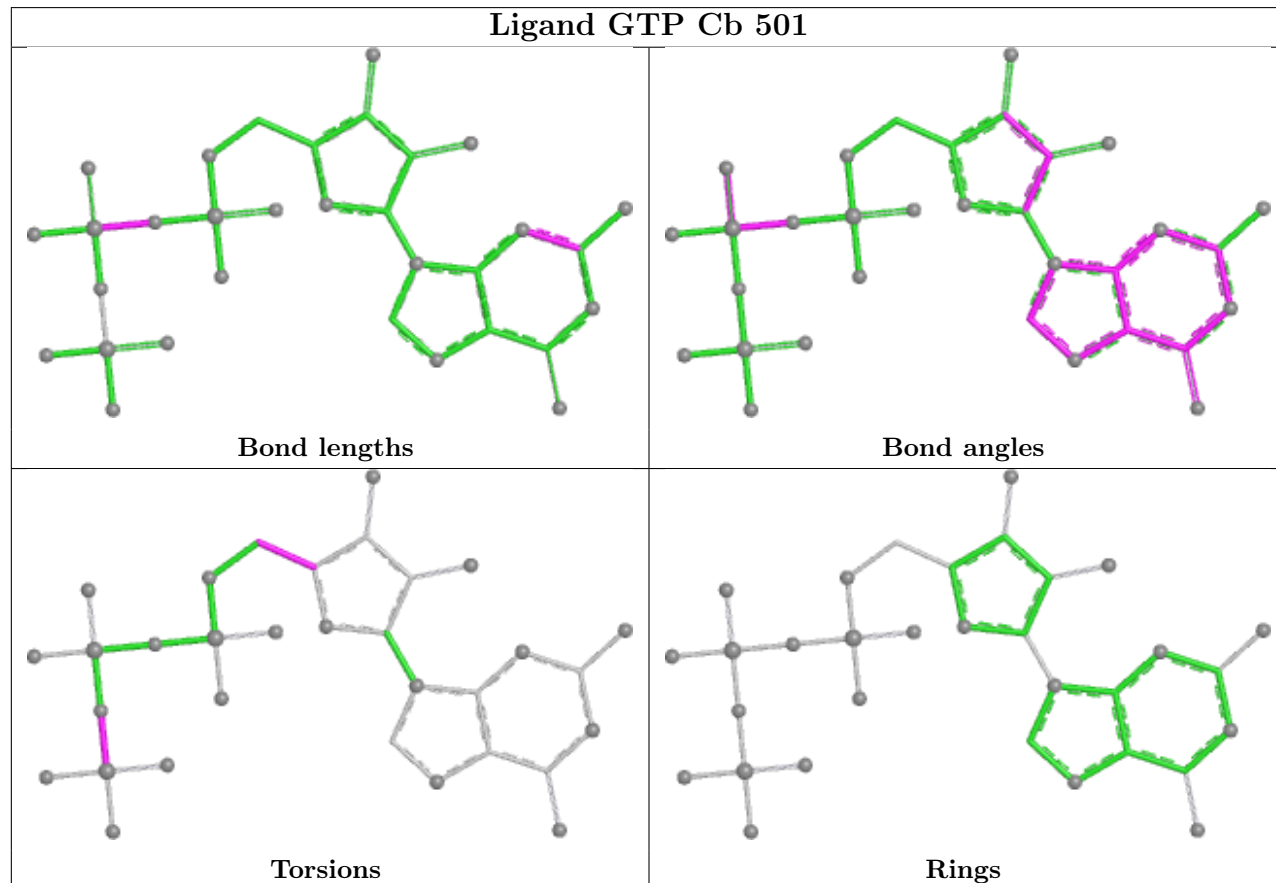
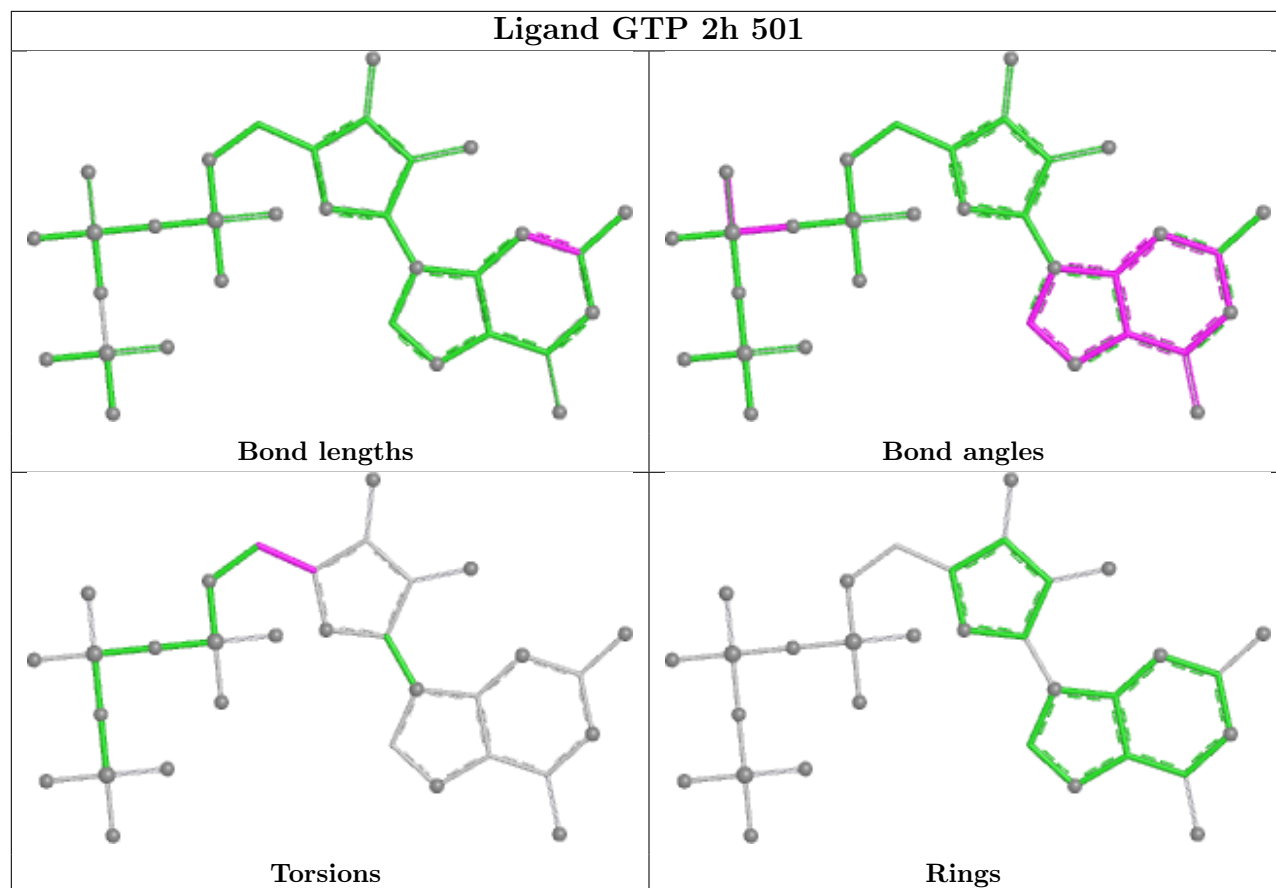
Ligand GTP Db 501

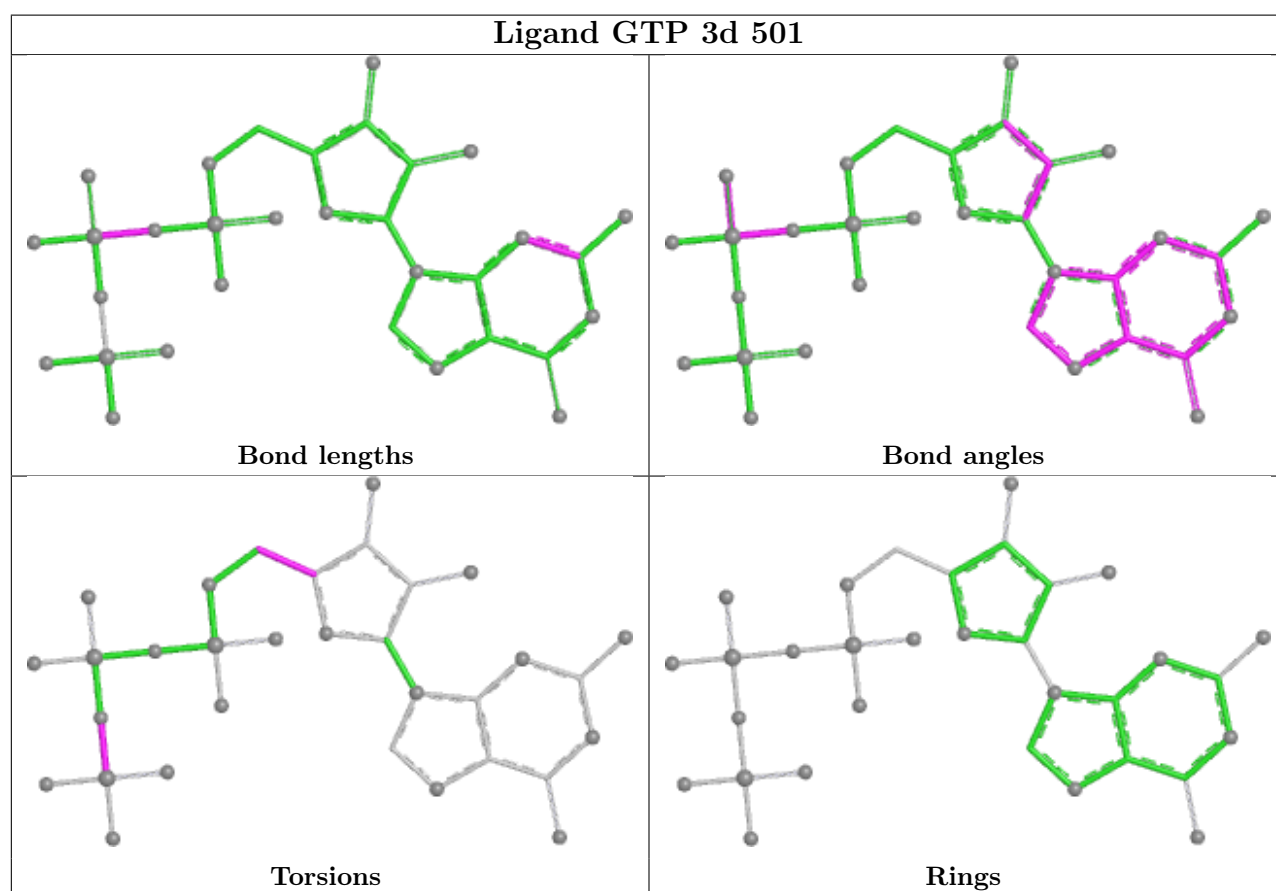
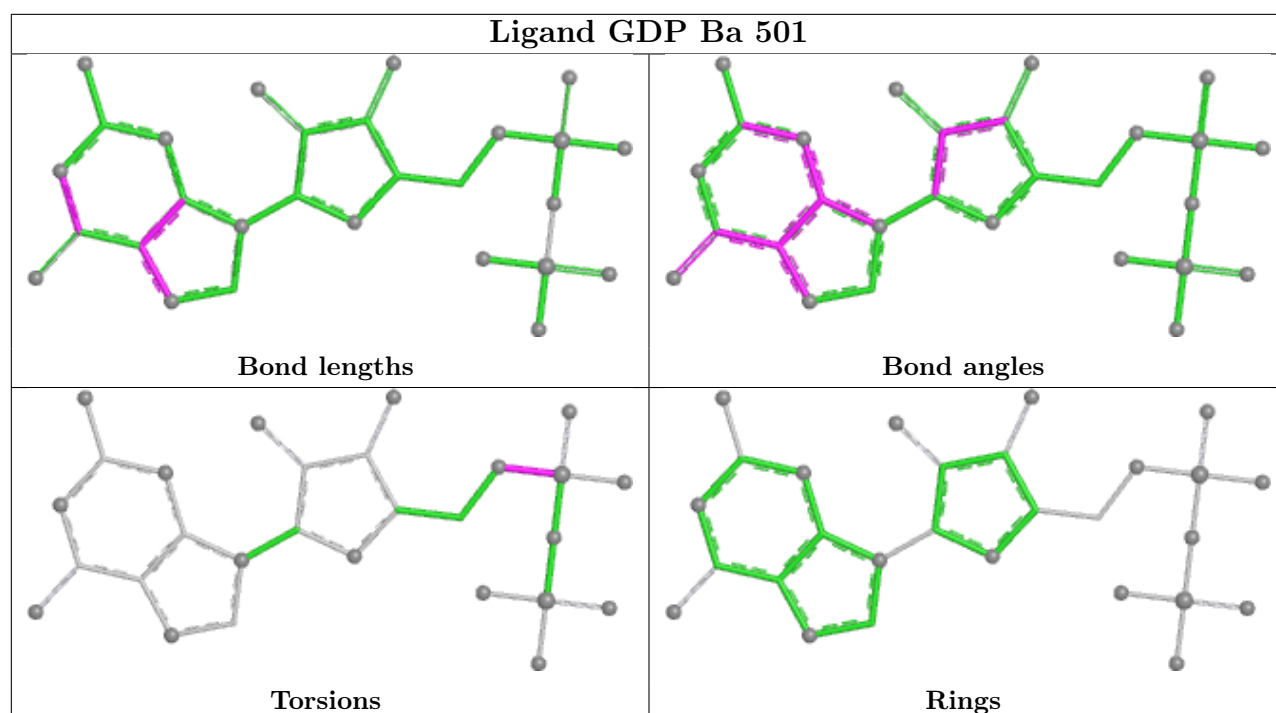


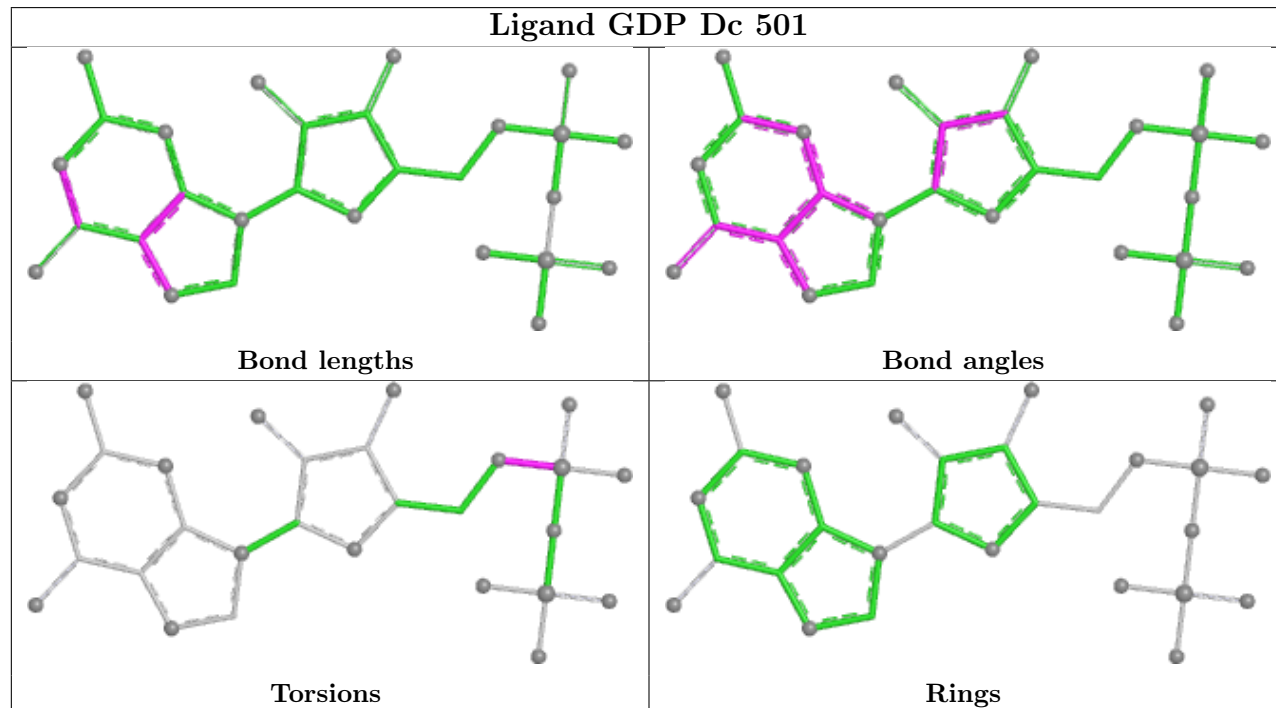
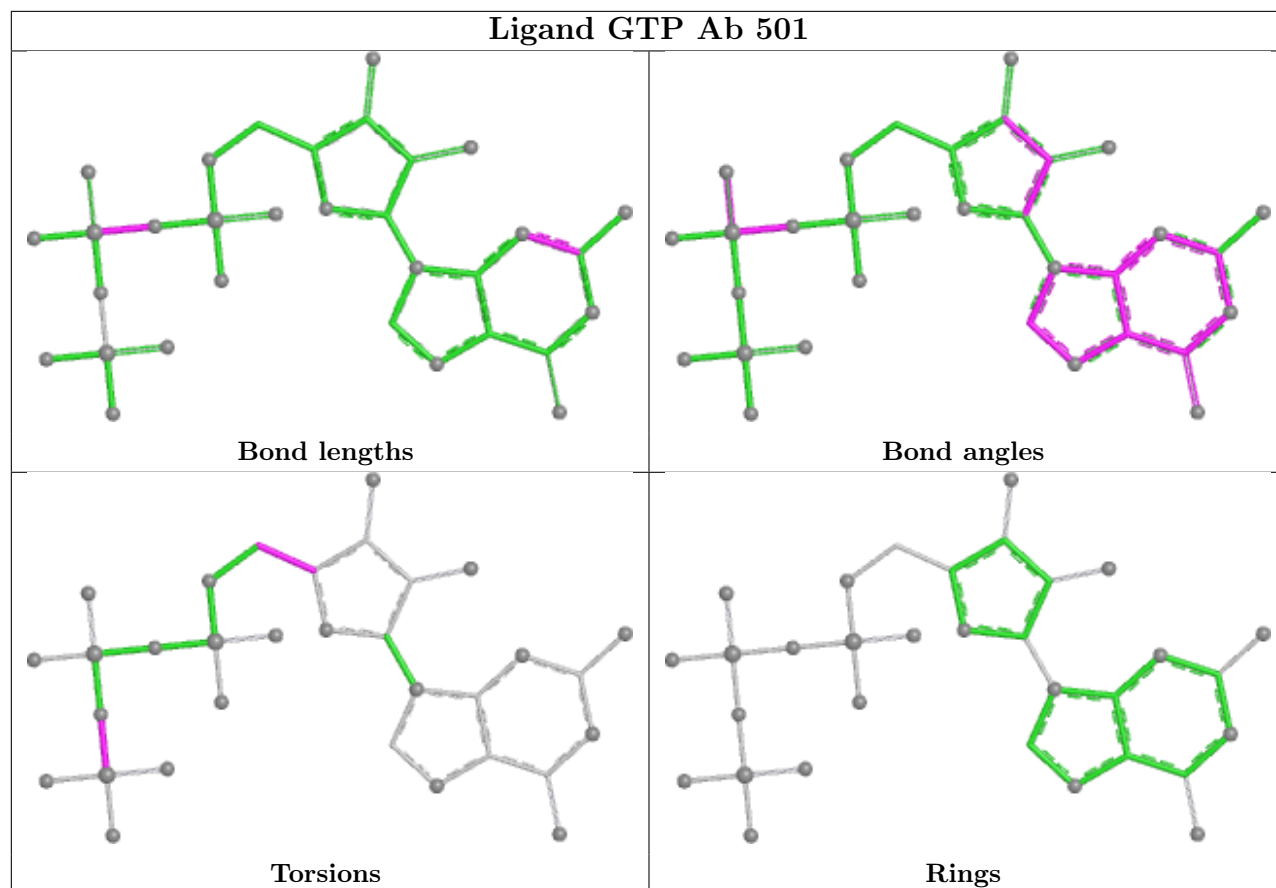
Ligand GTP 5d 501

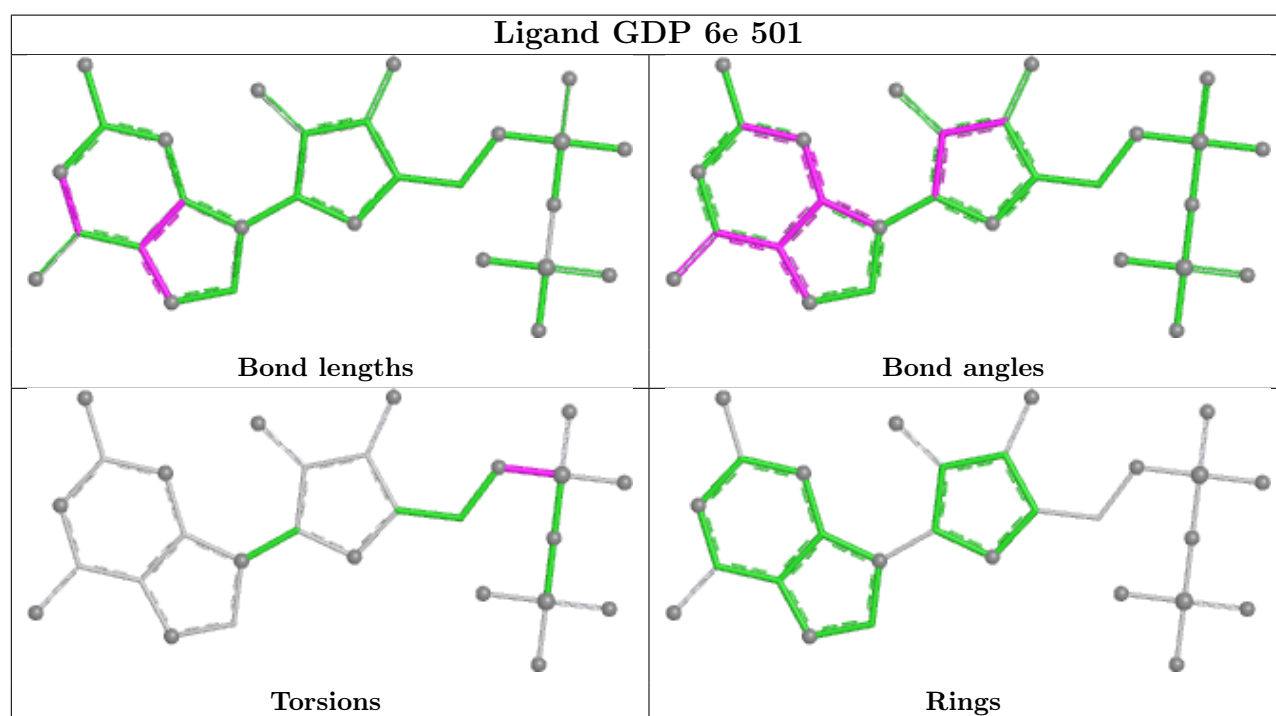
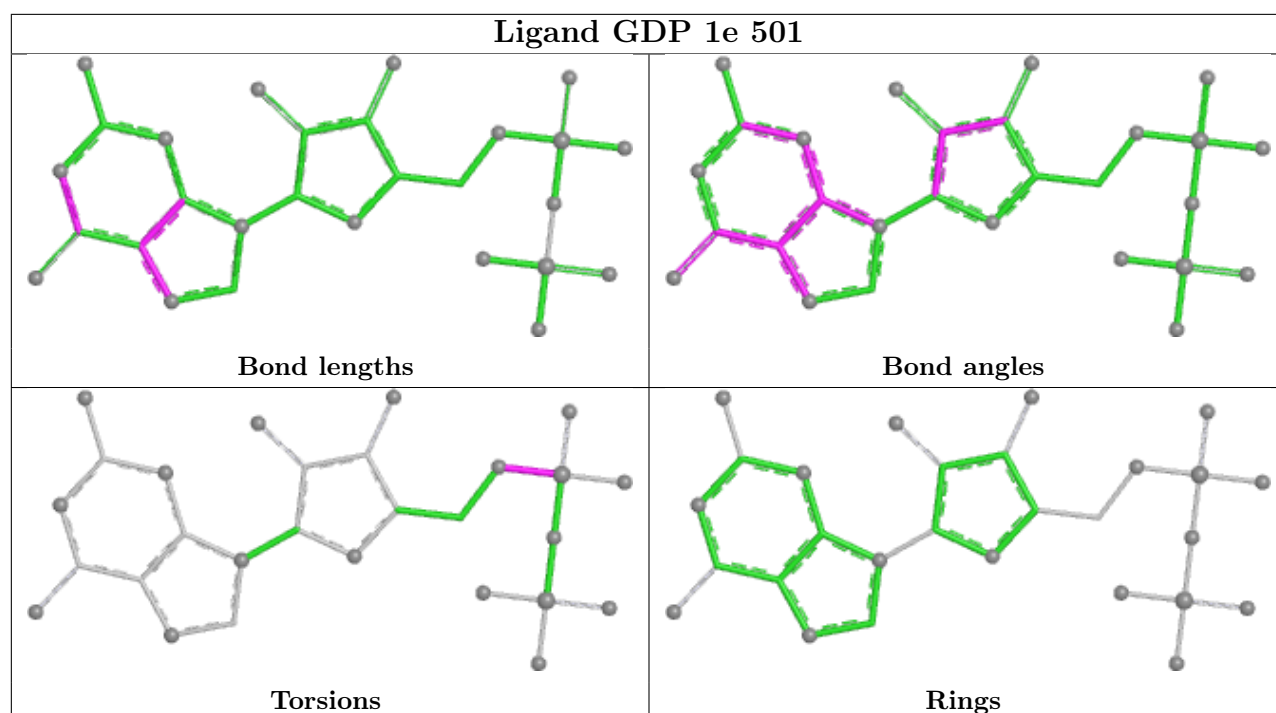


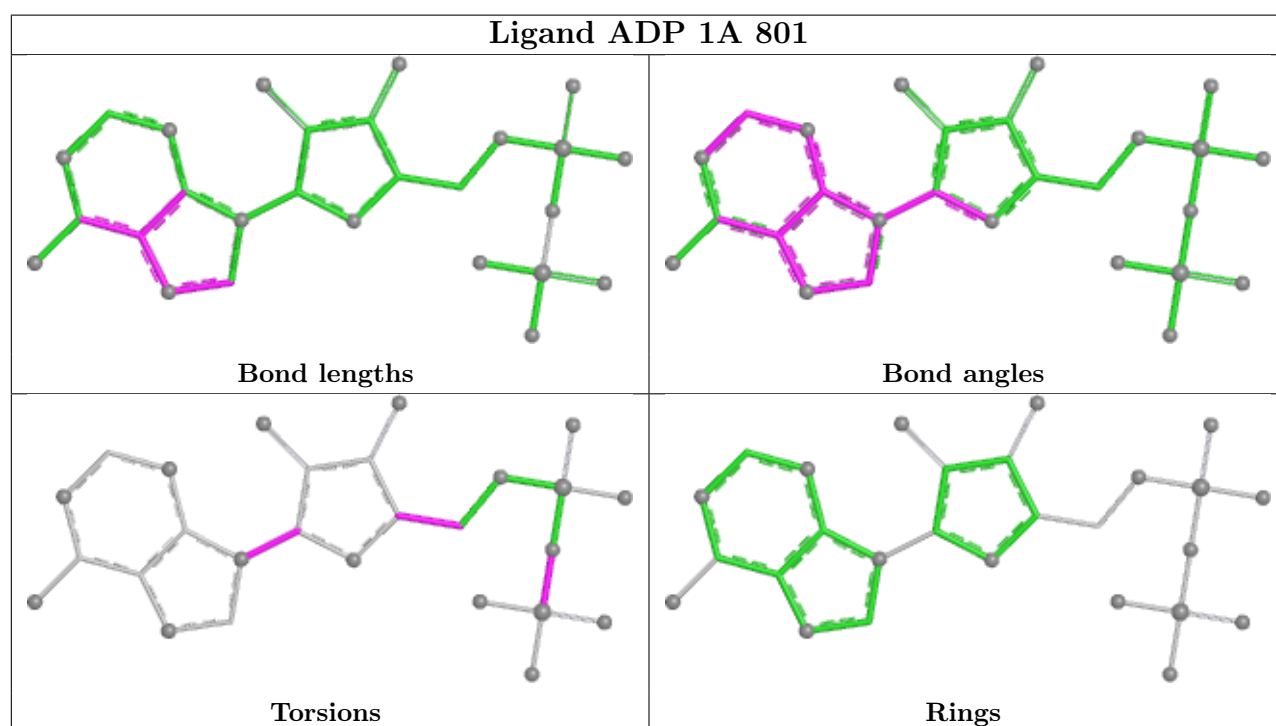
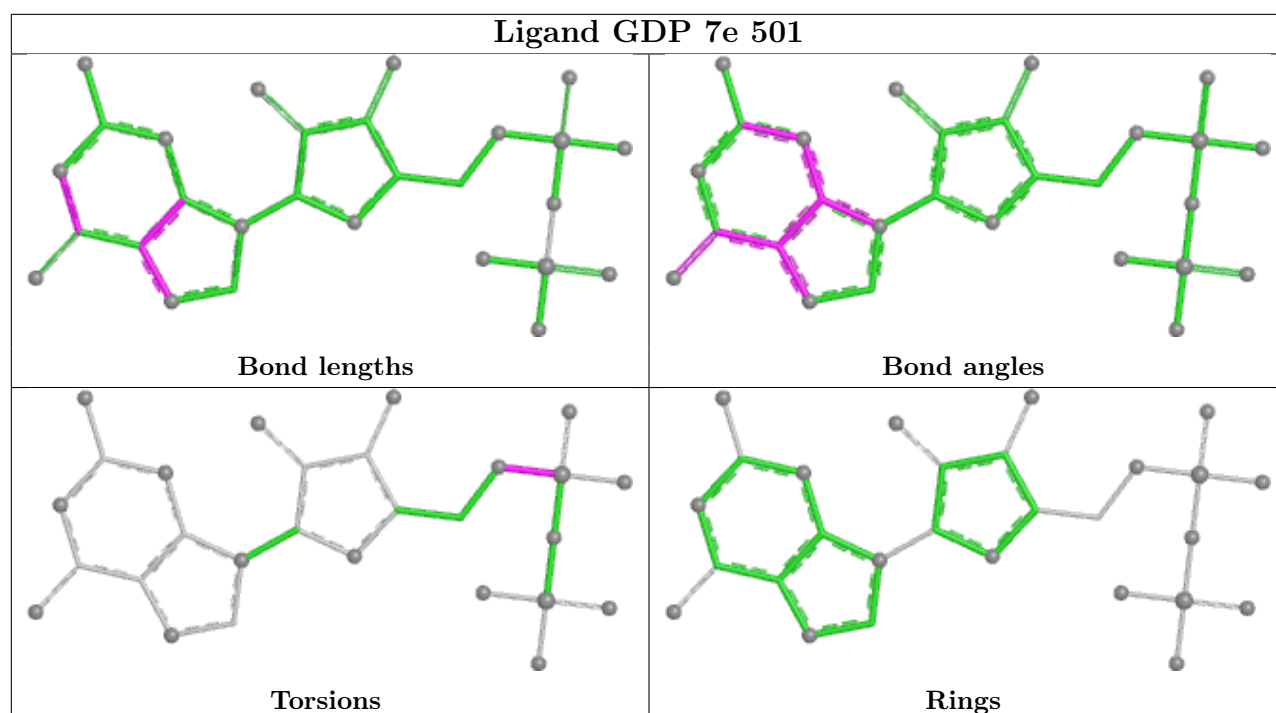


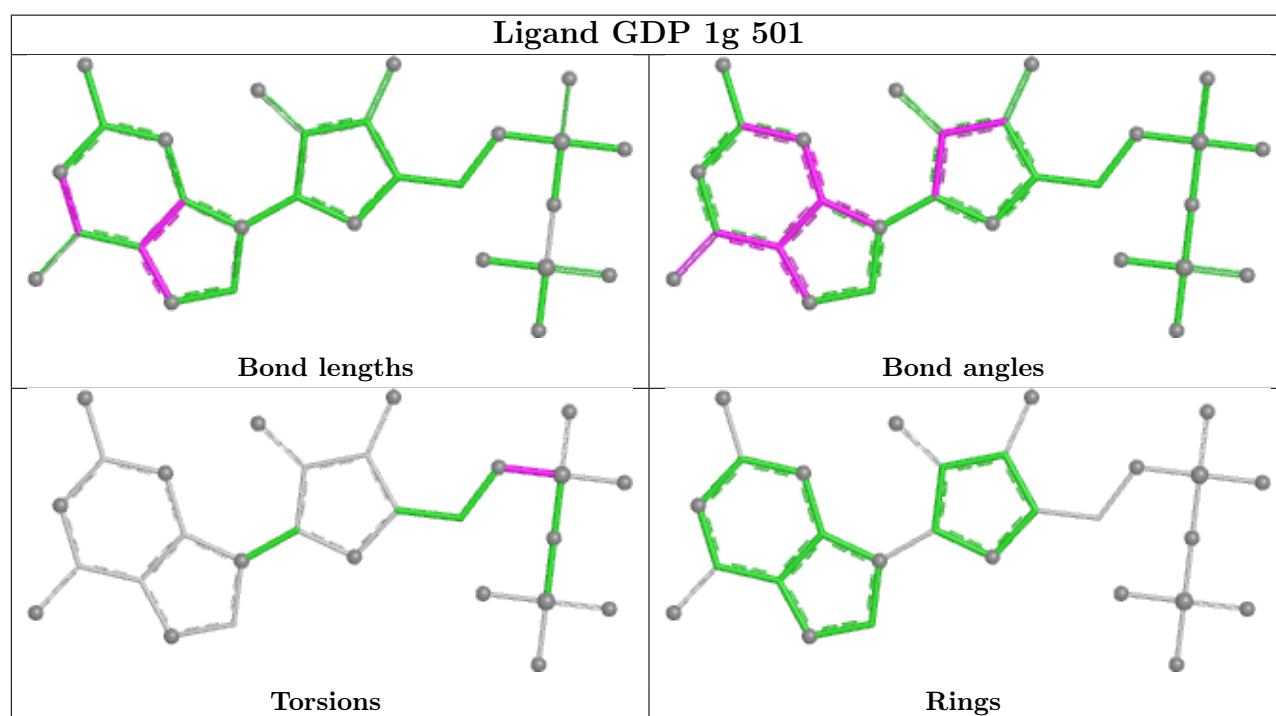
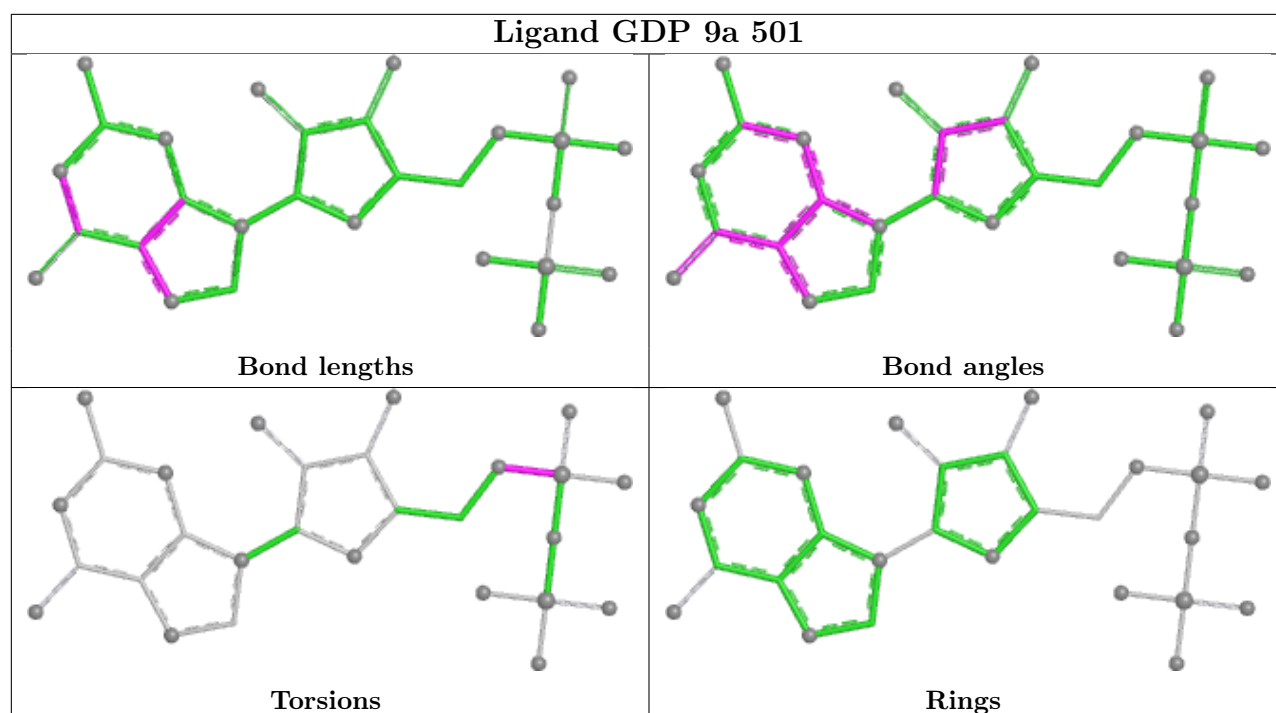


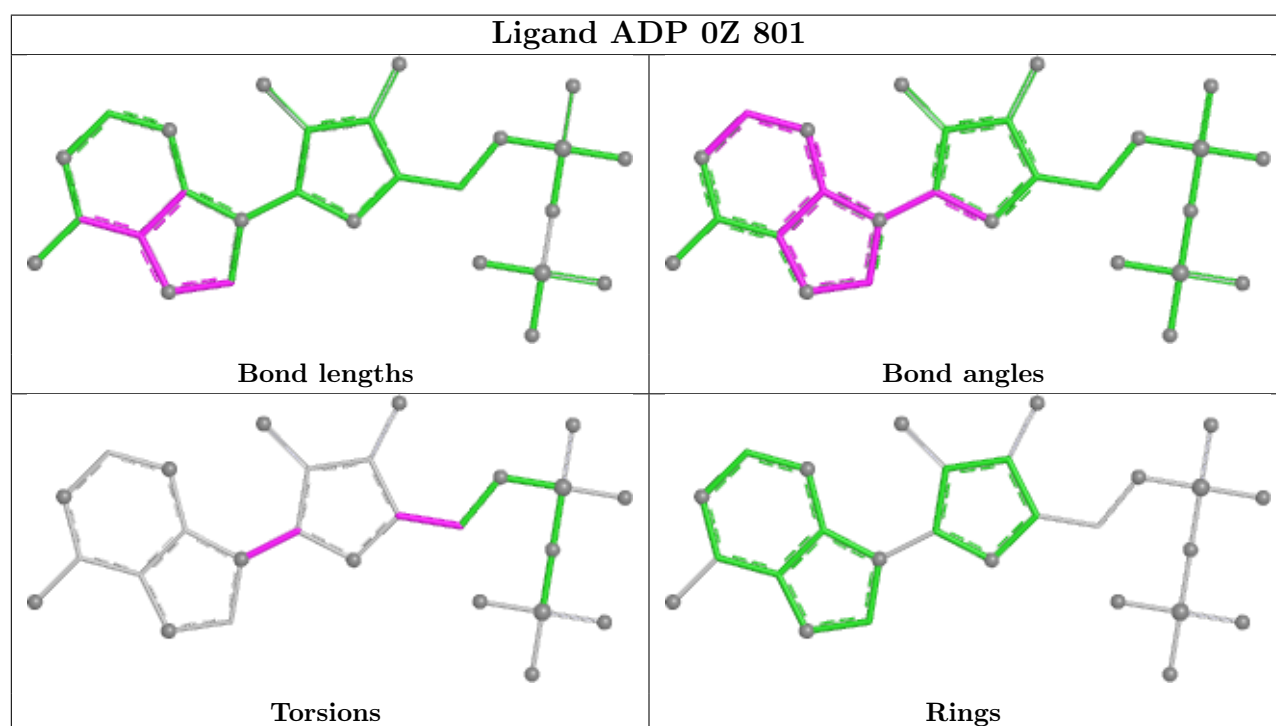
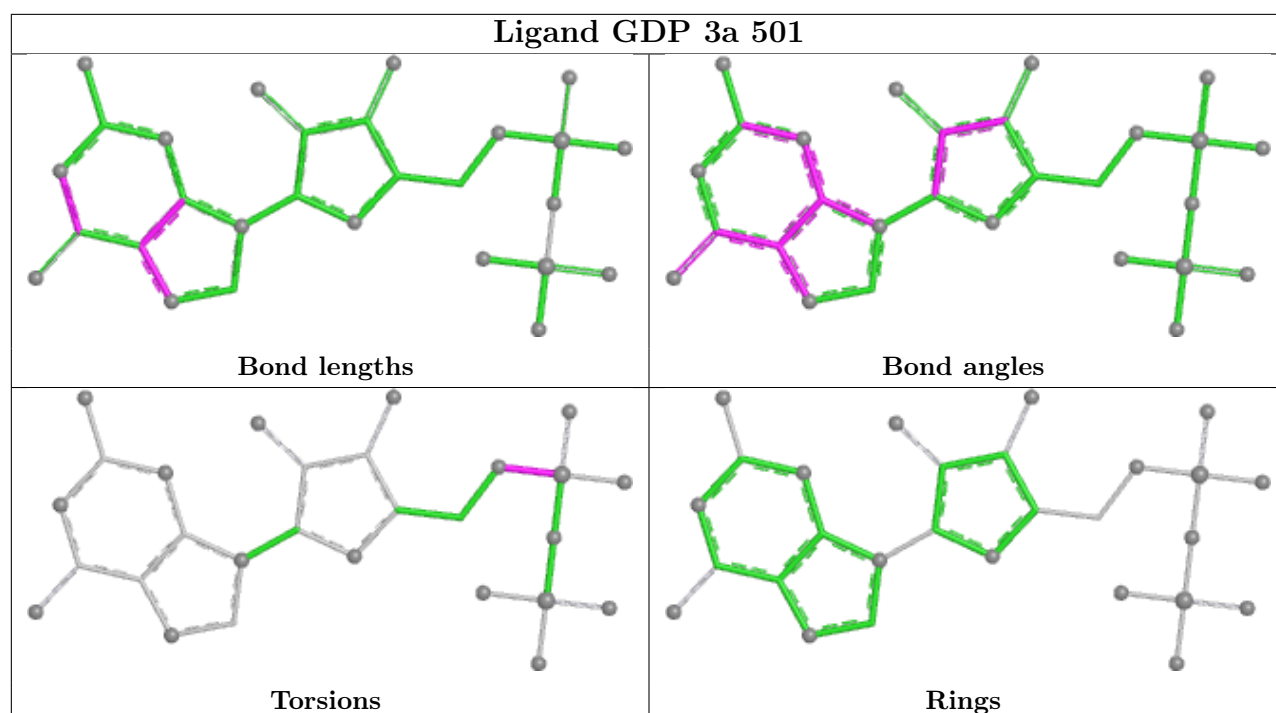


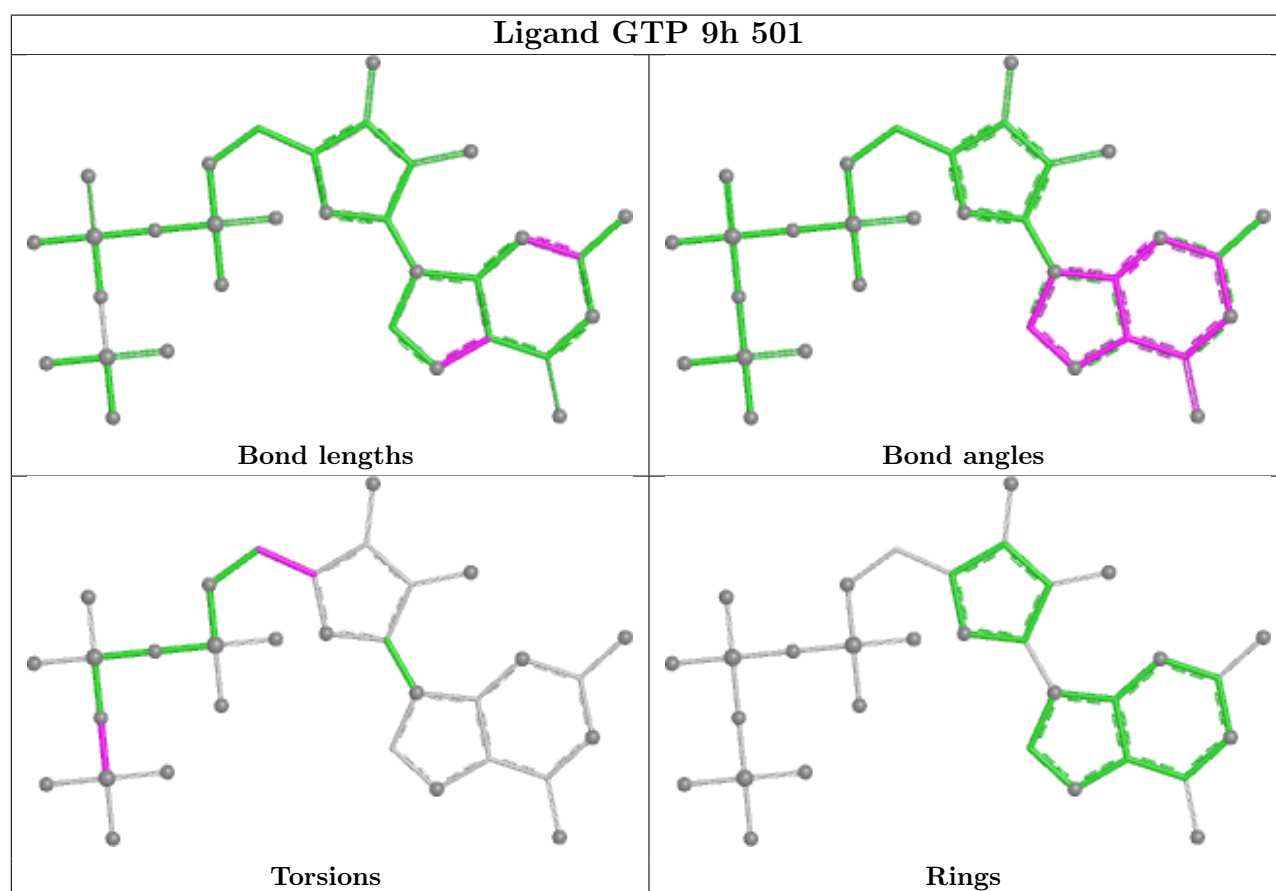
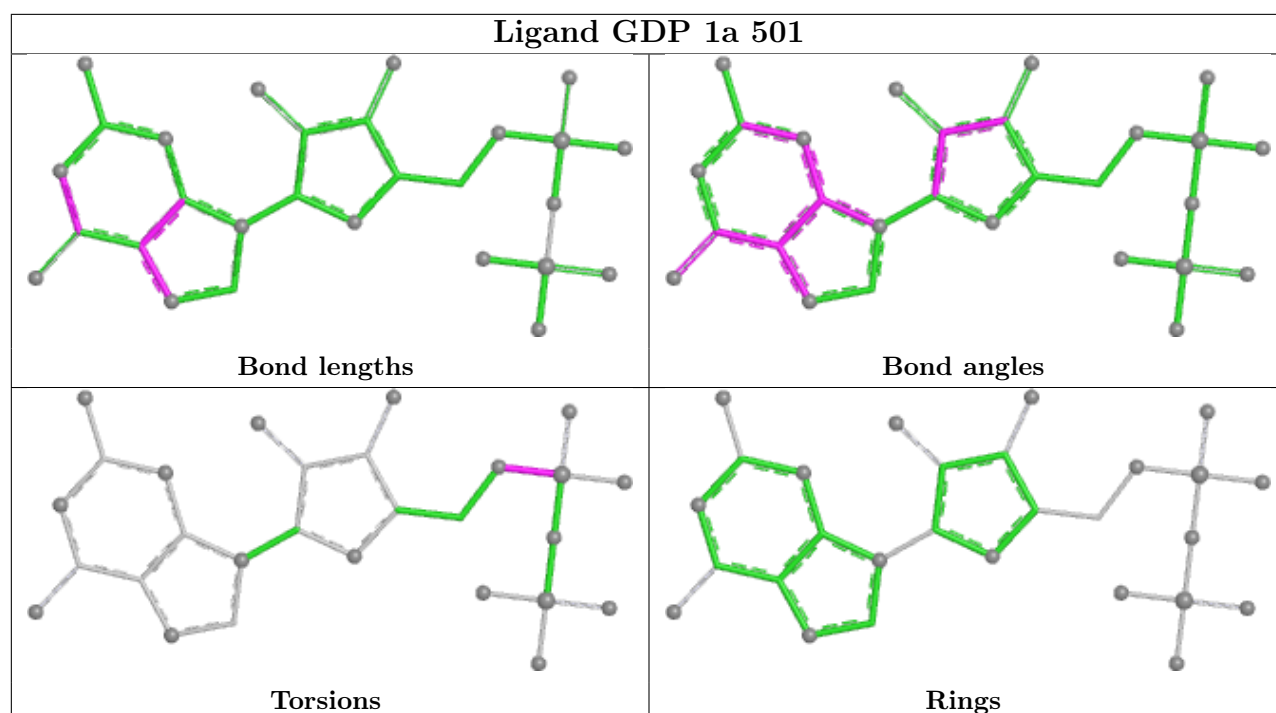


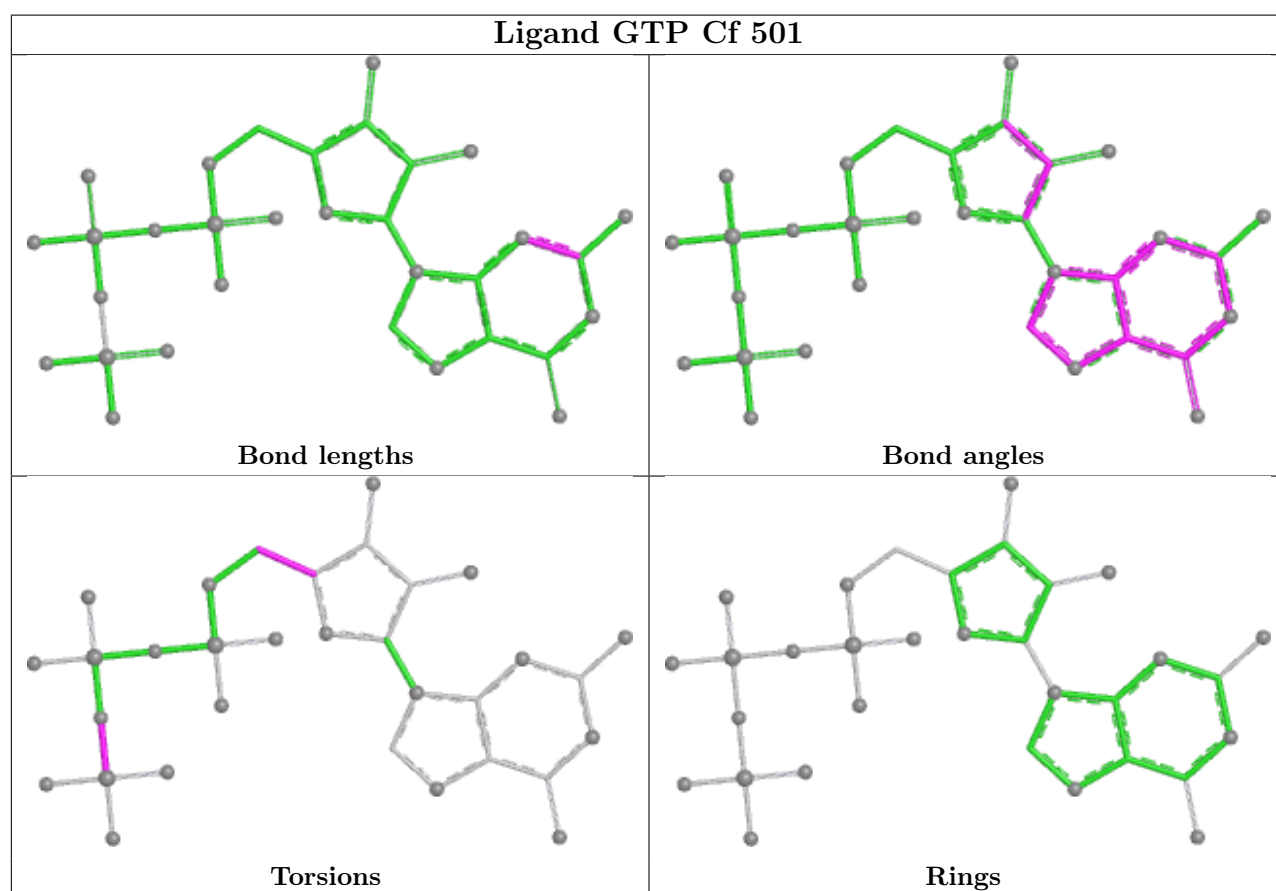
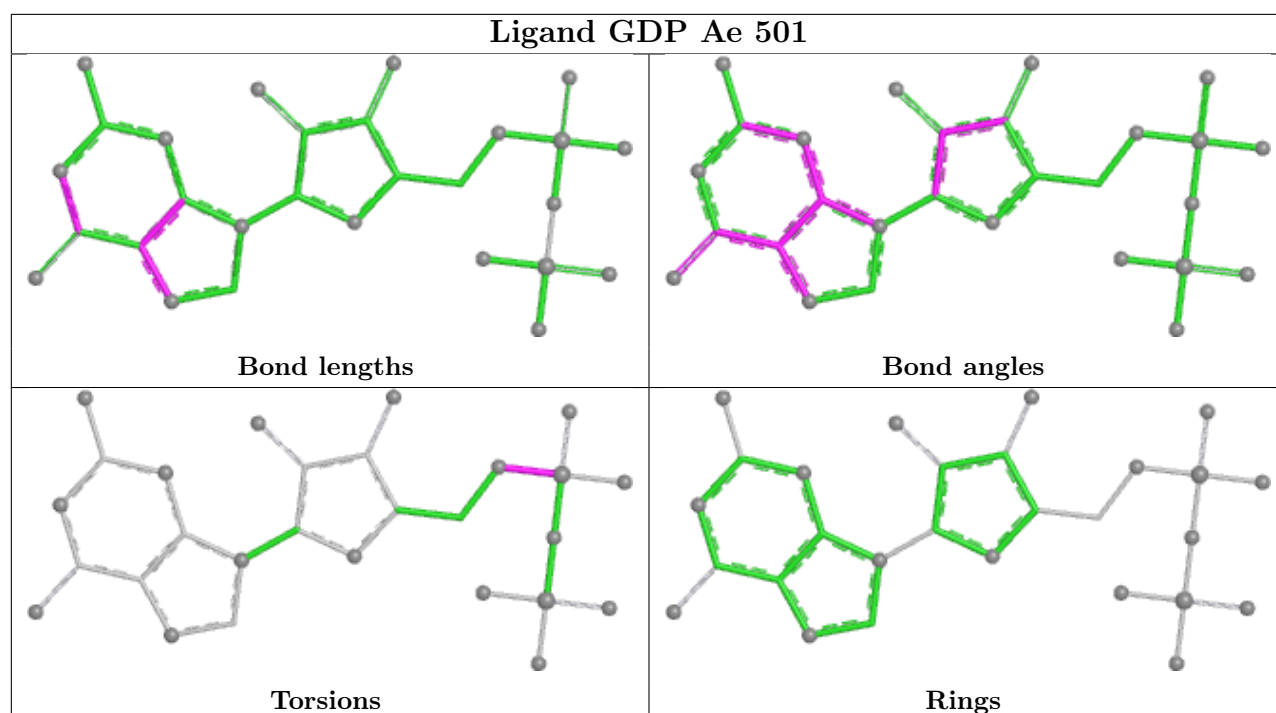


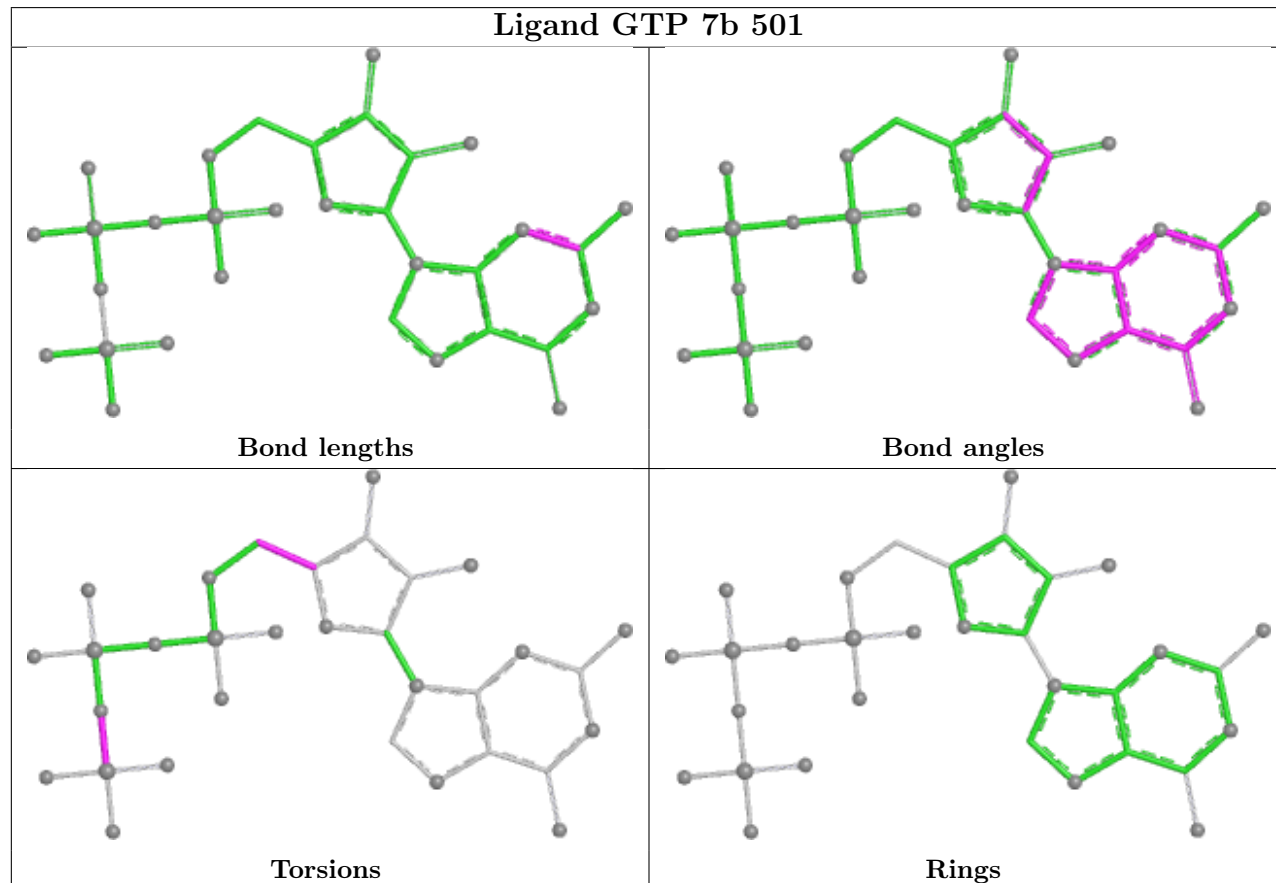
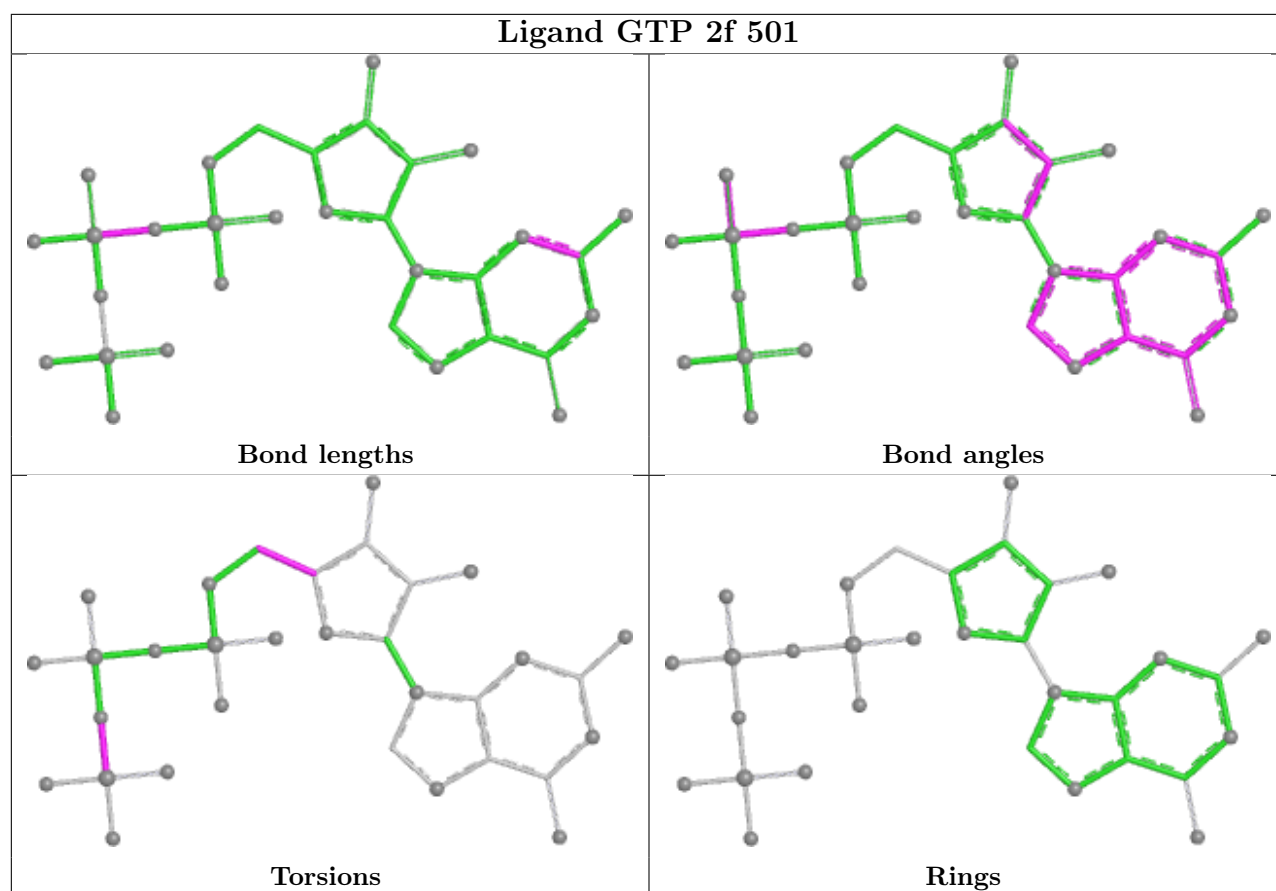


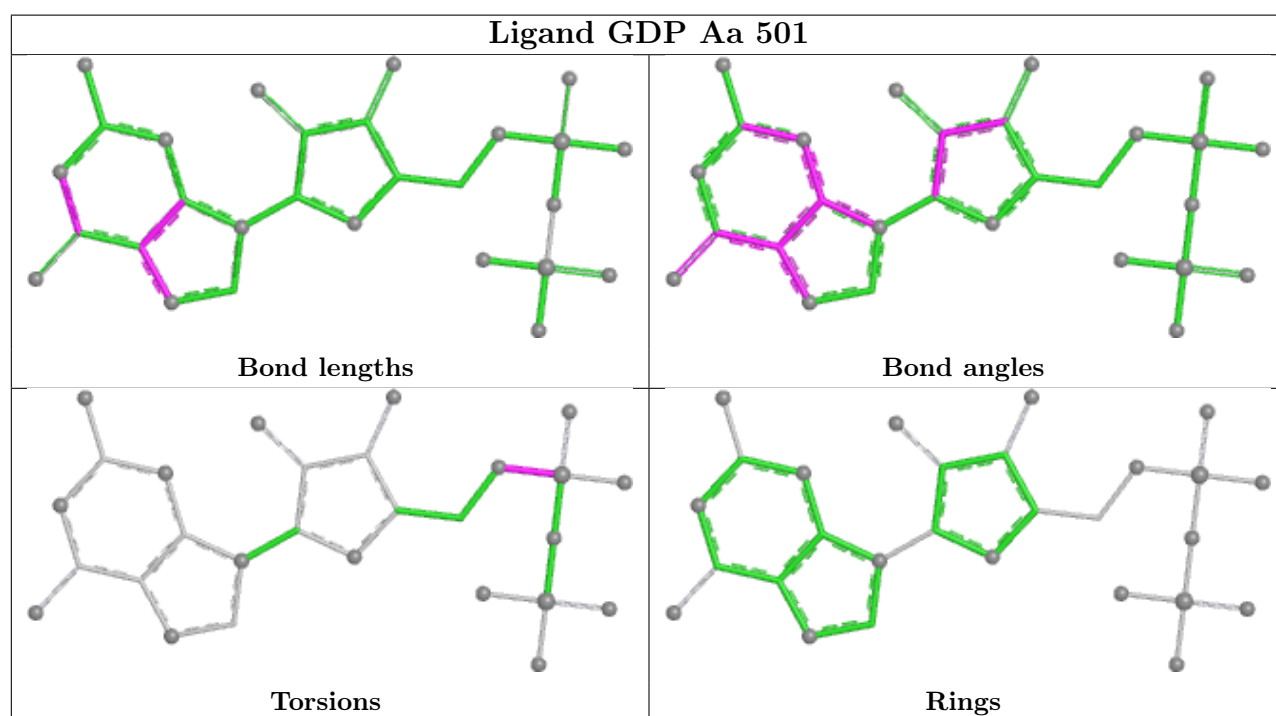
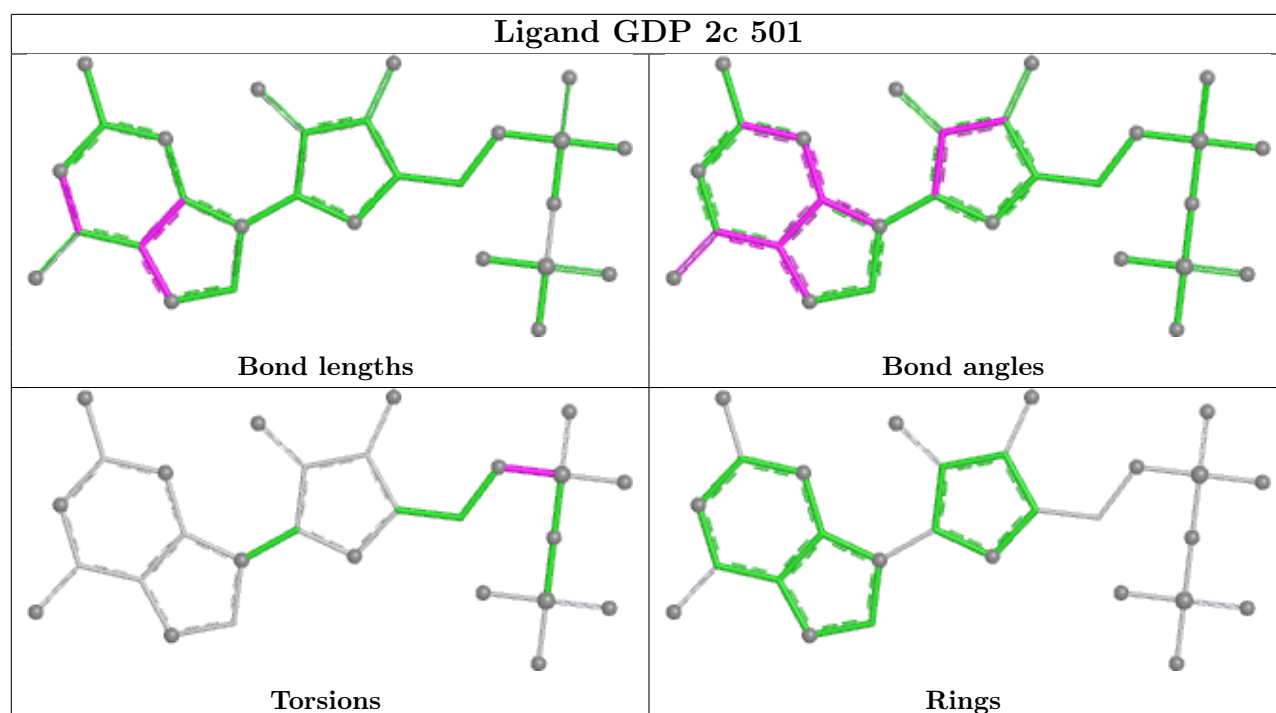


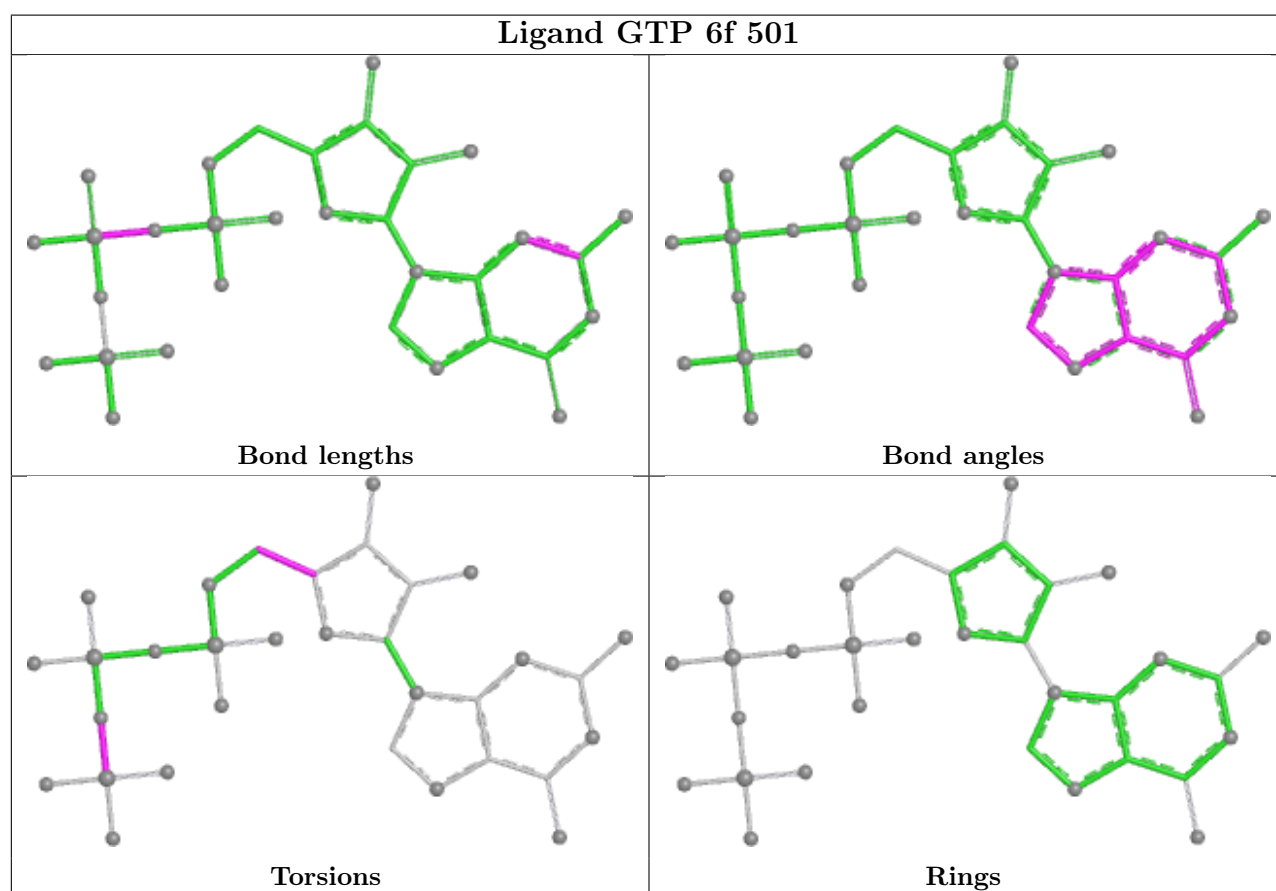
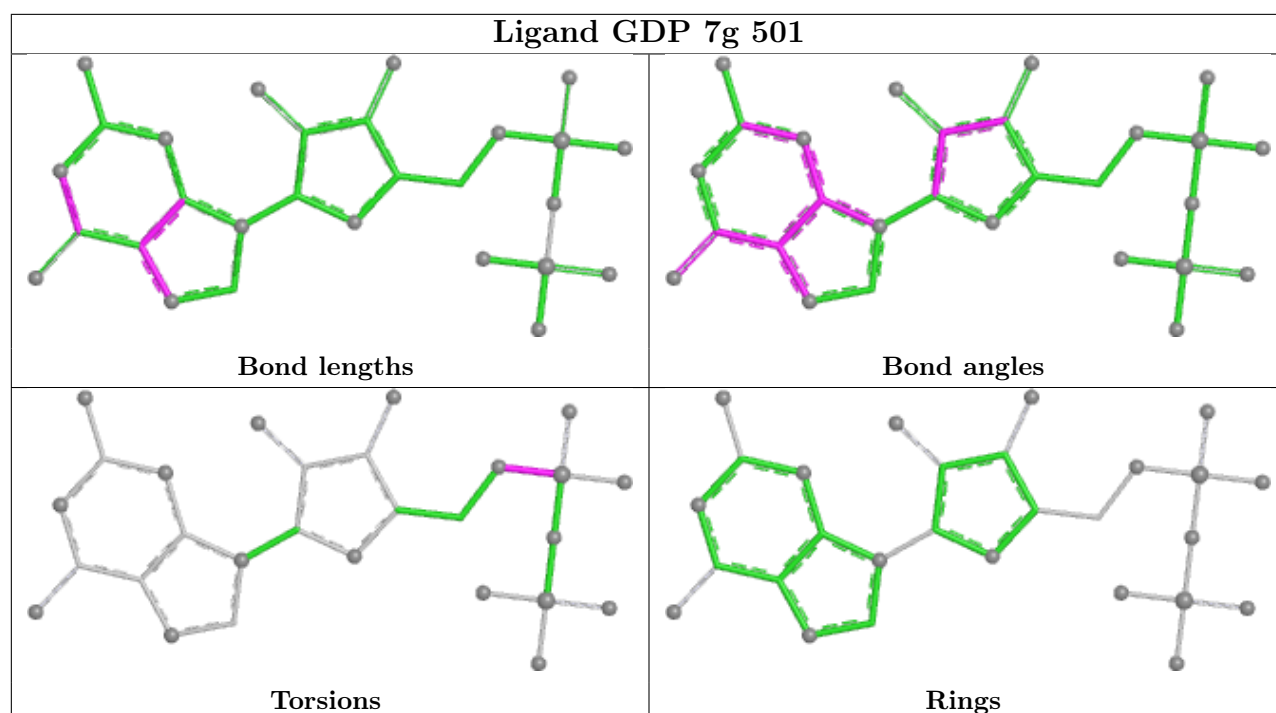


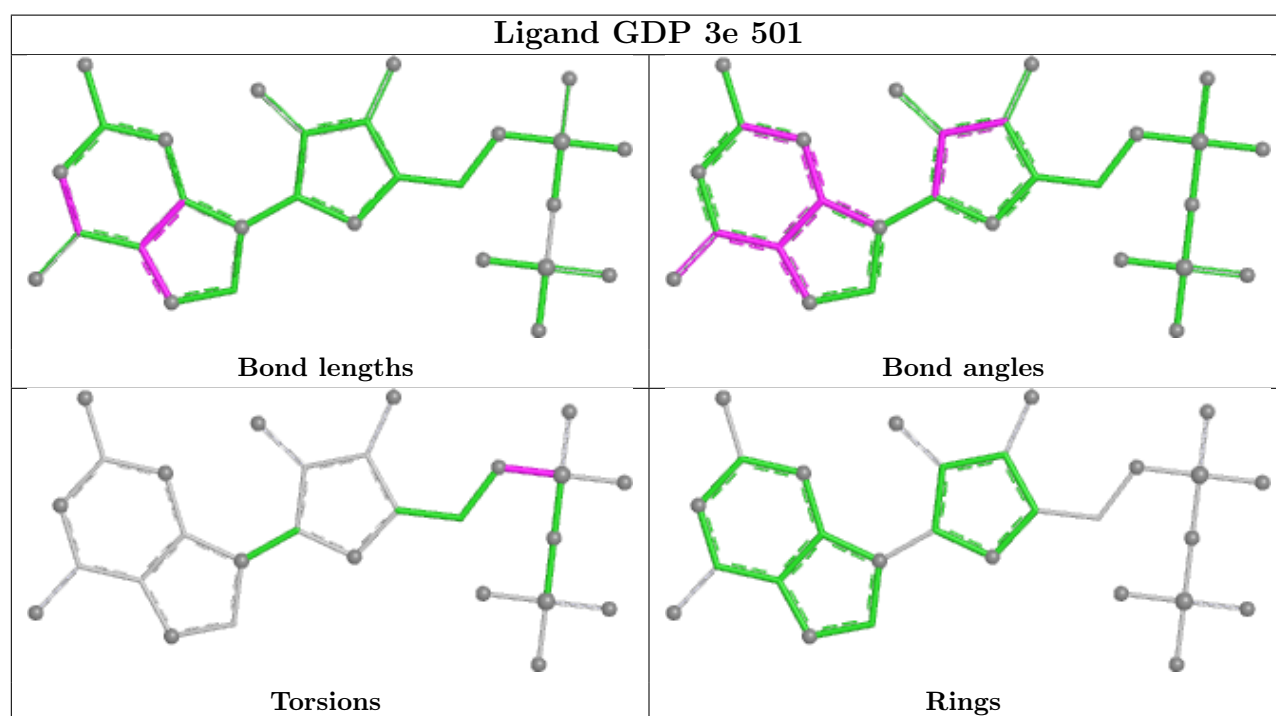
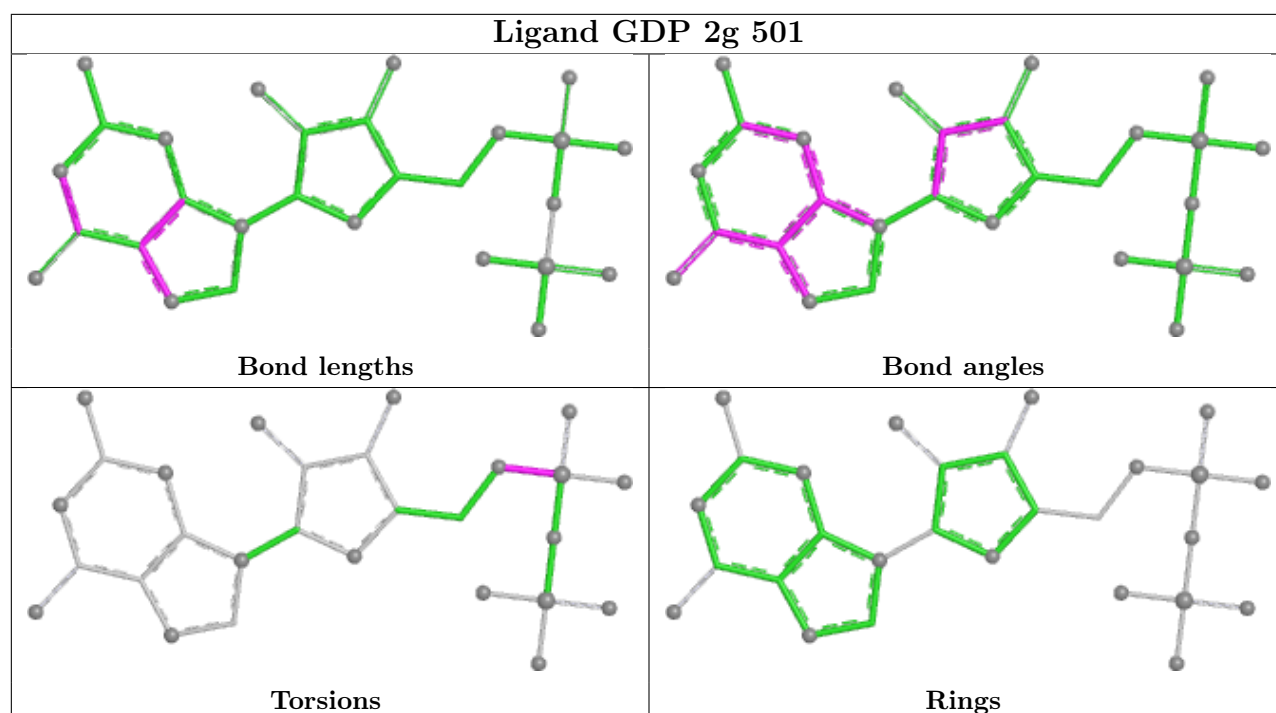


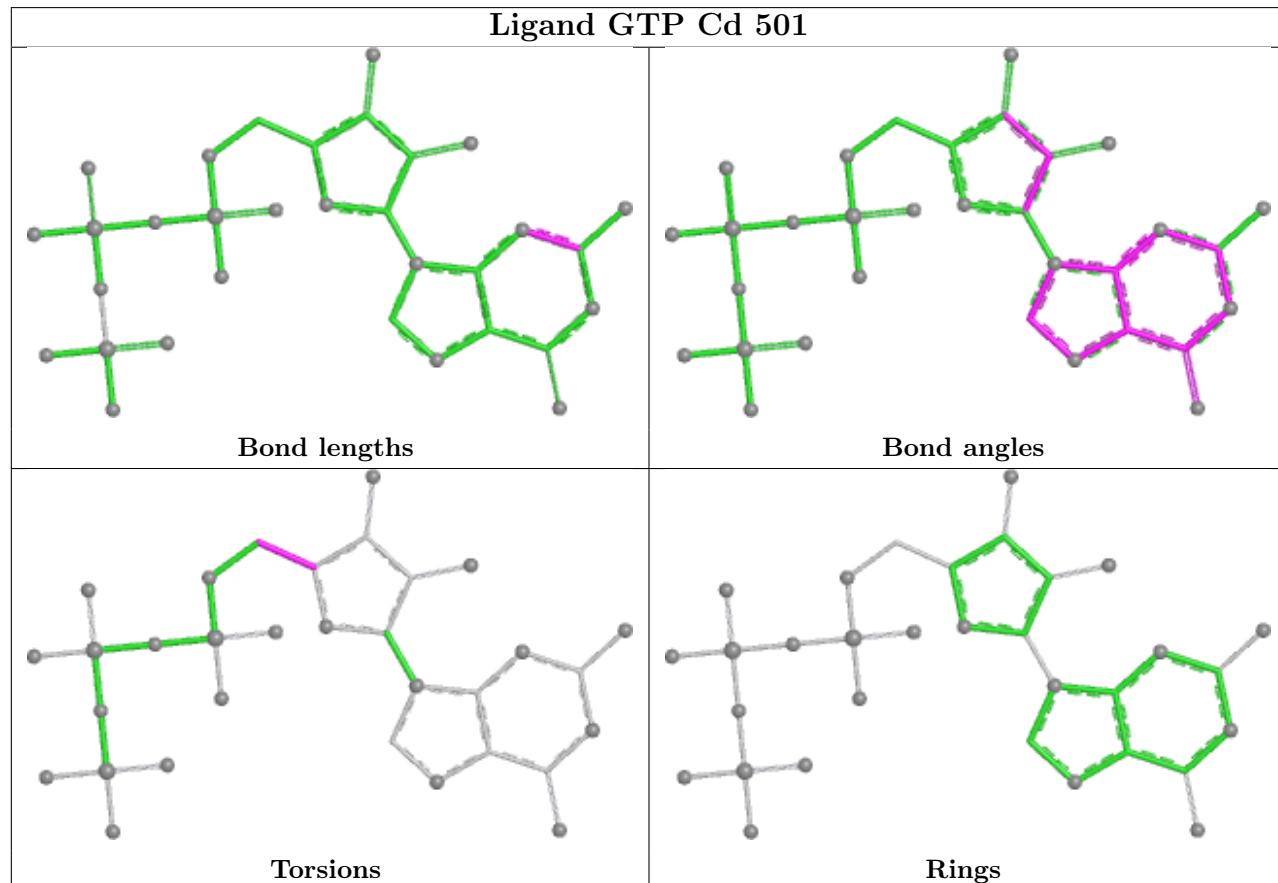
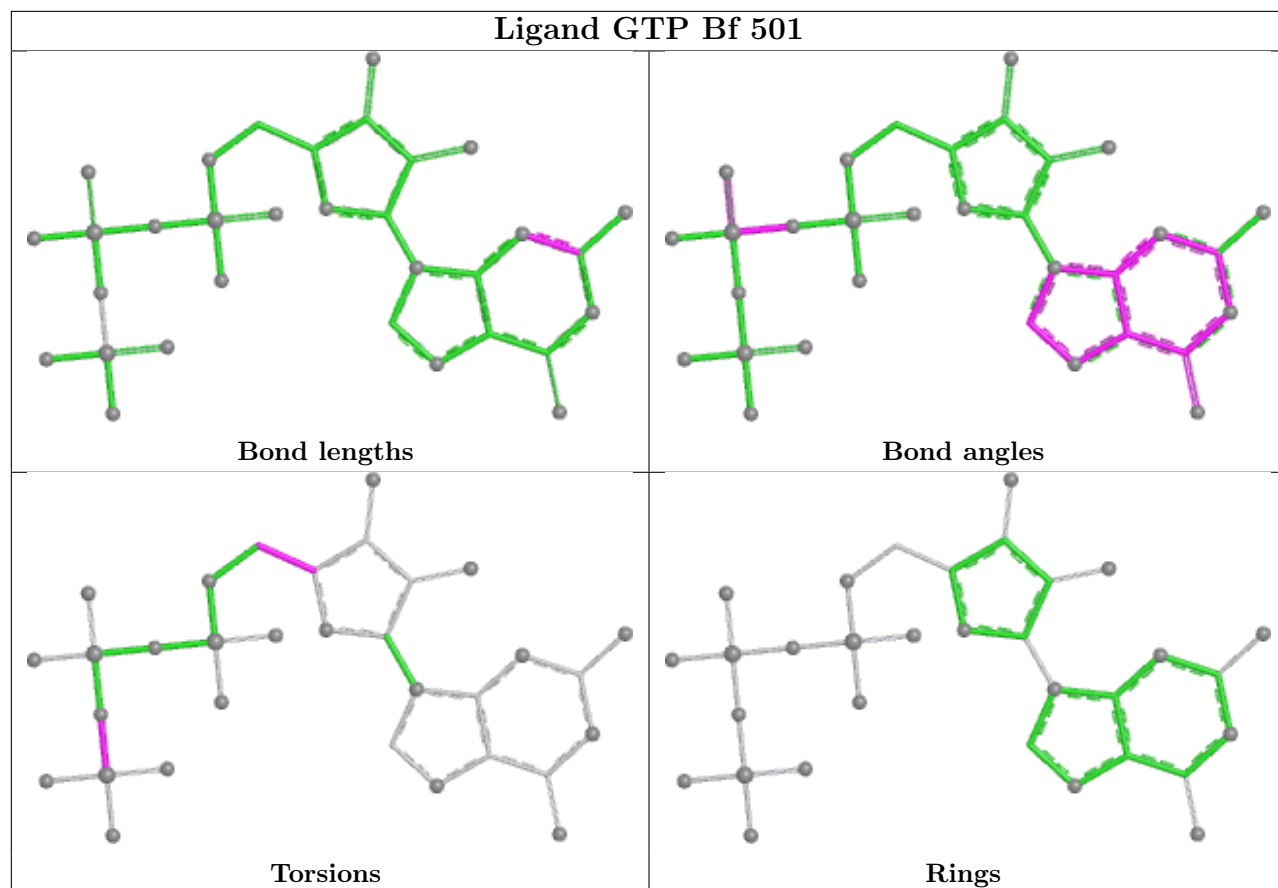


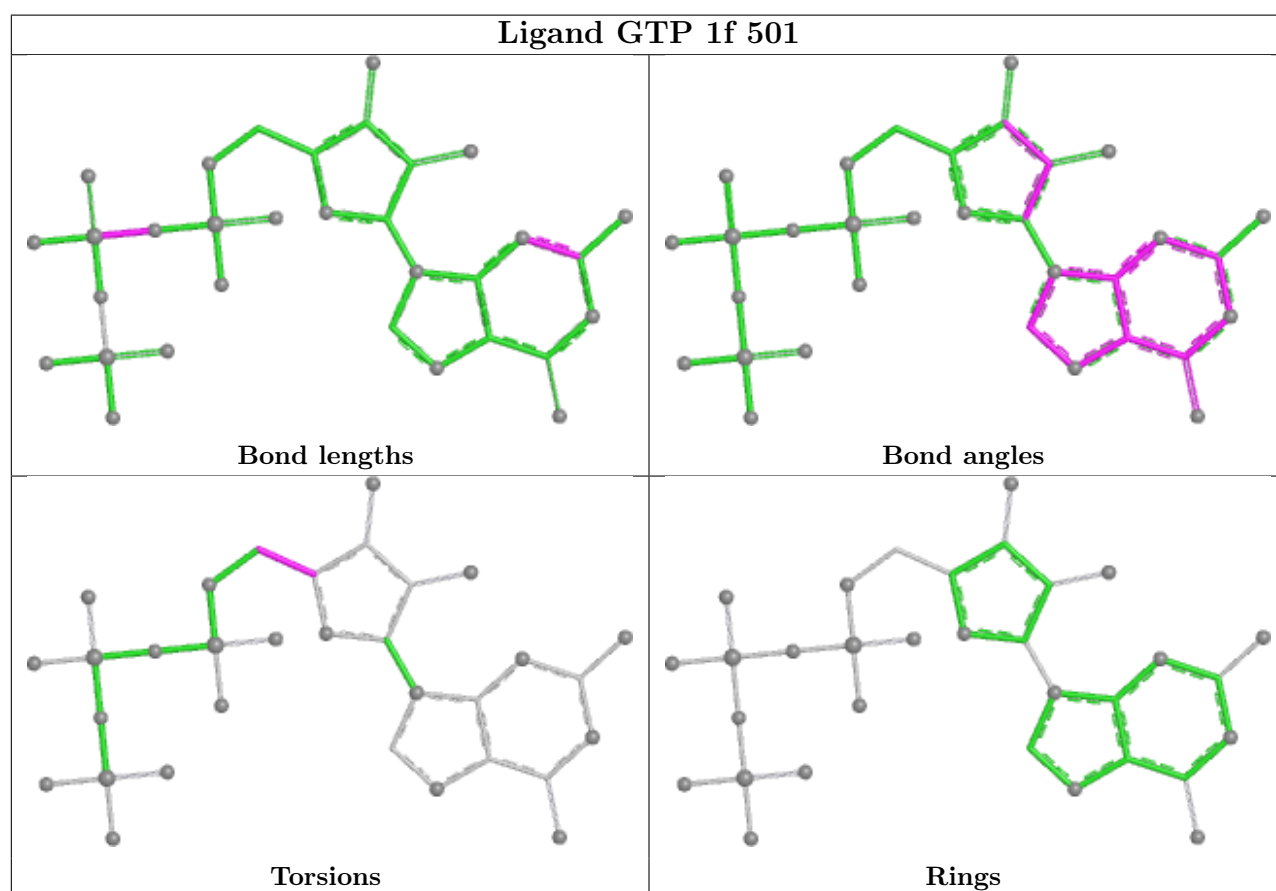
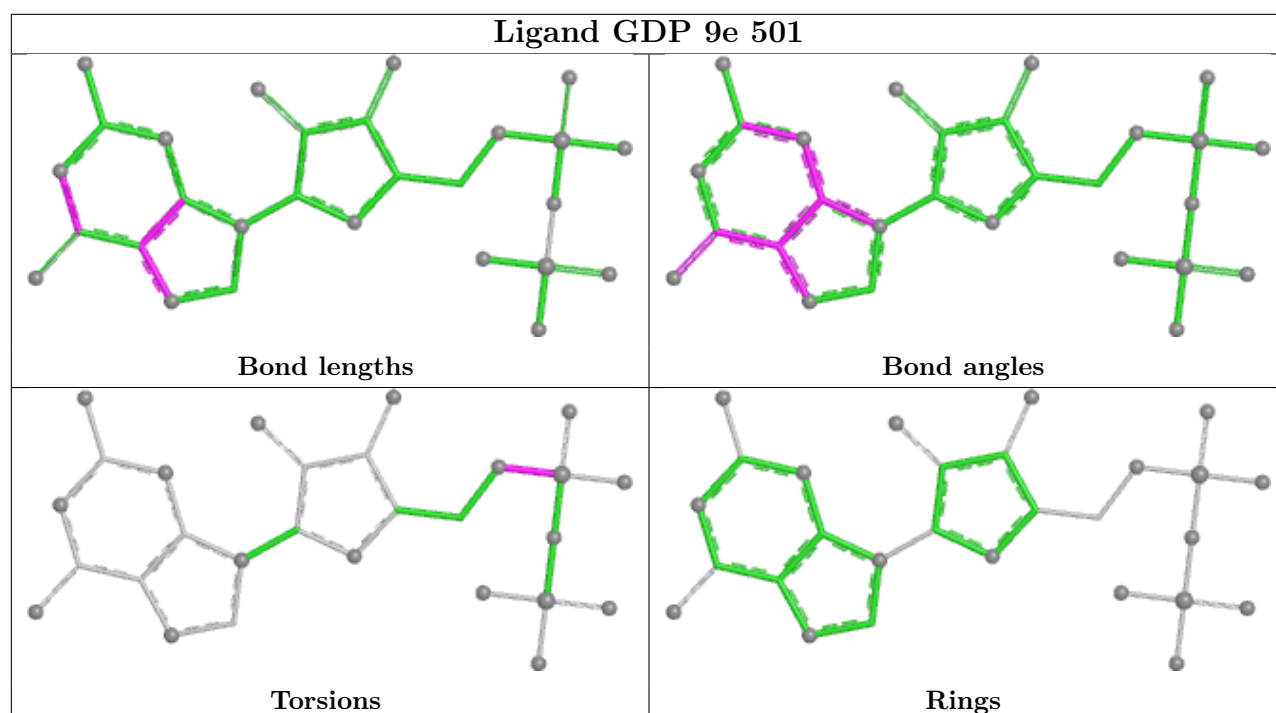




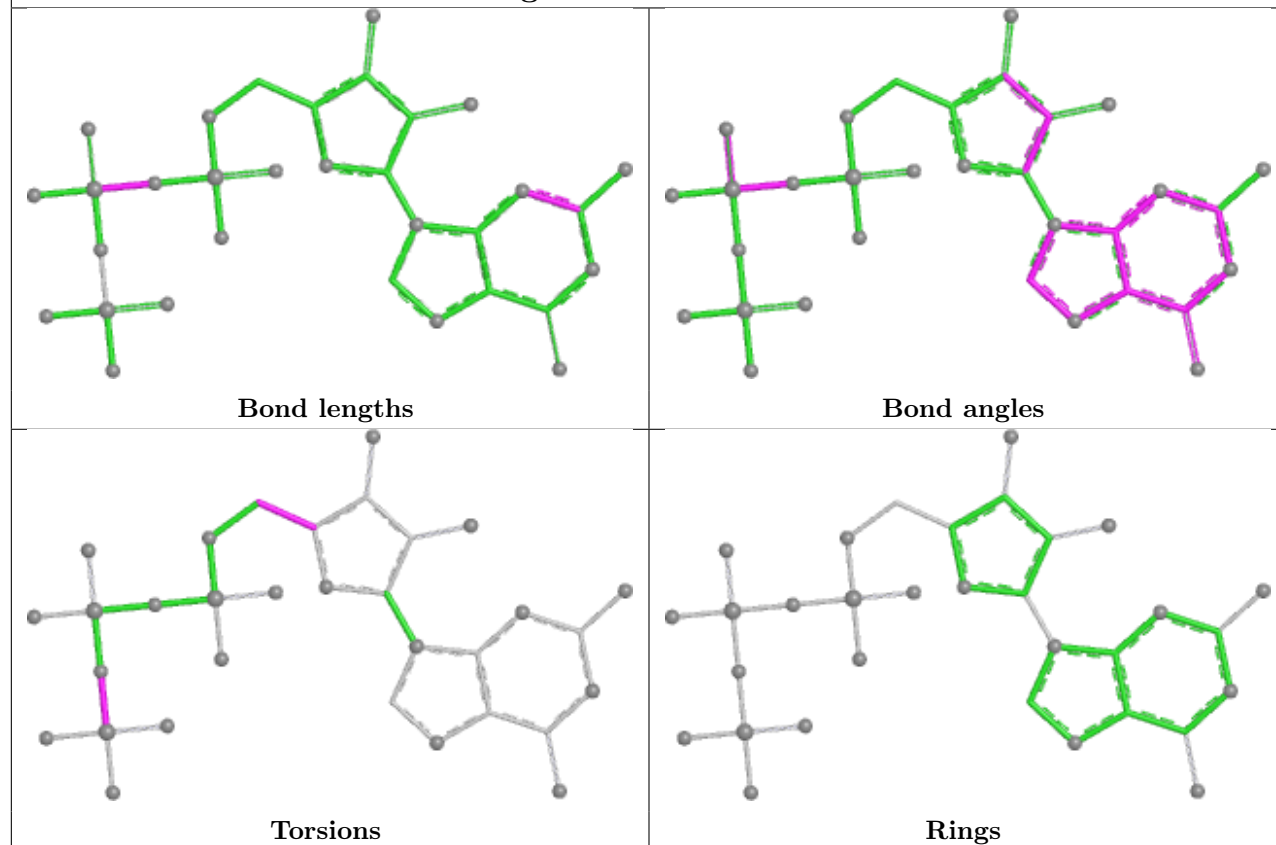




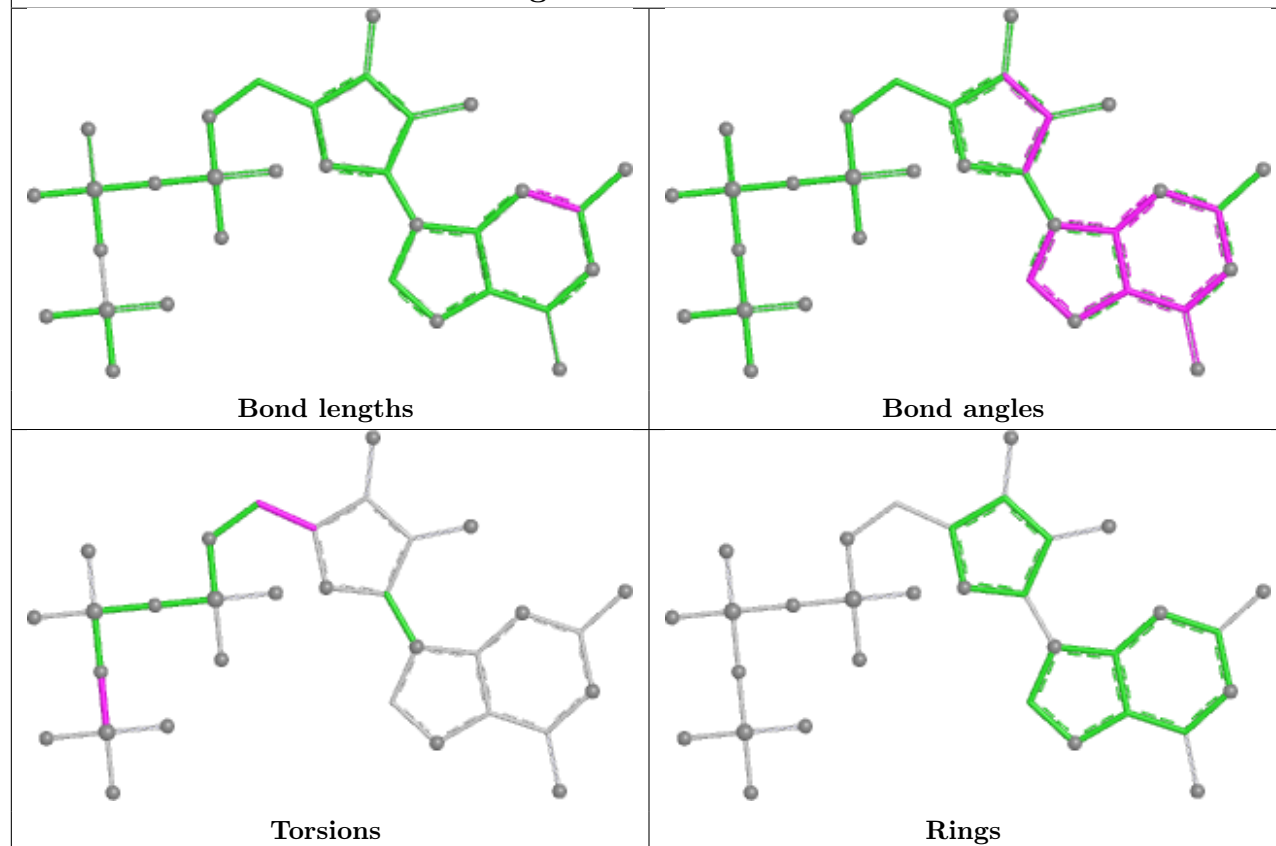


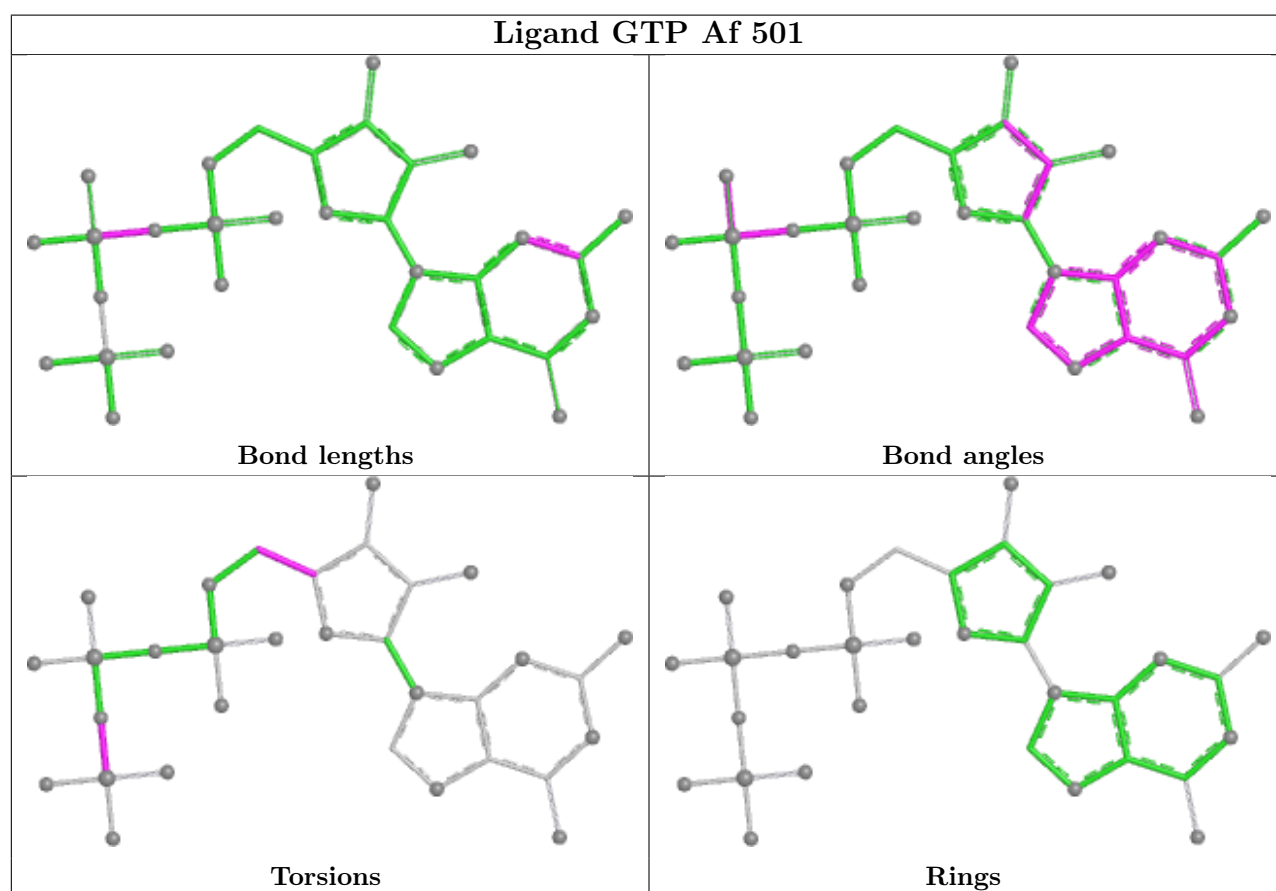
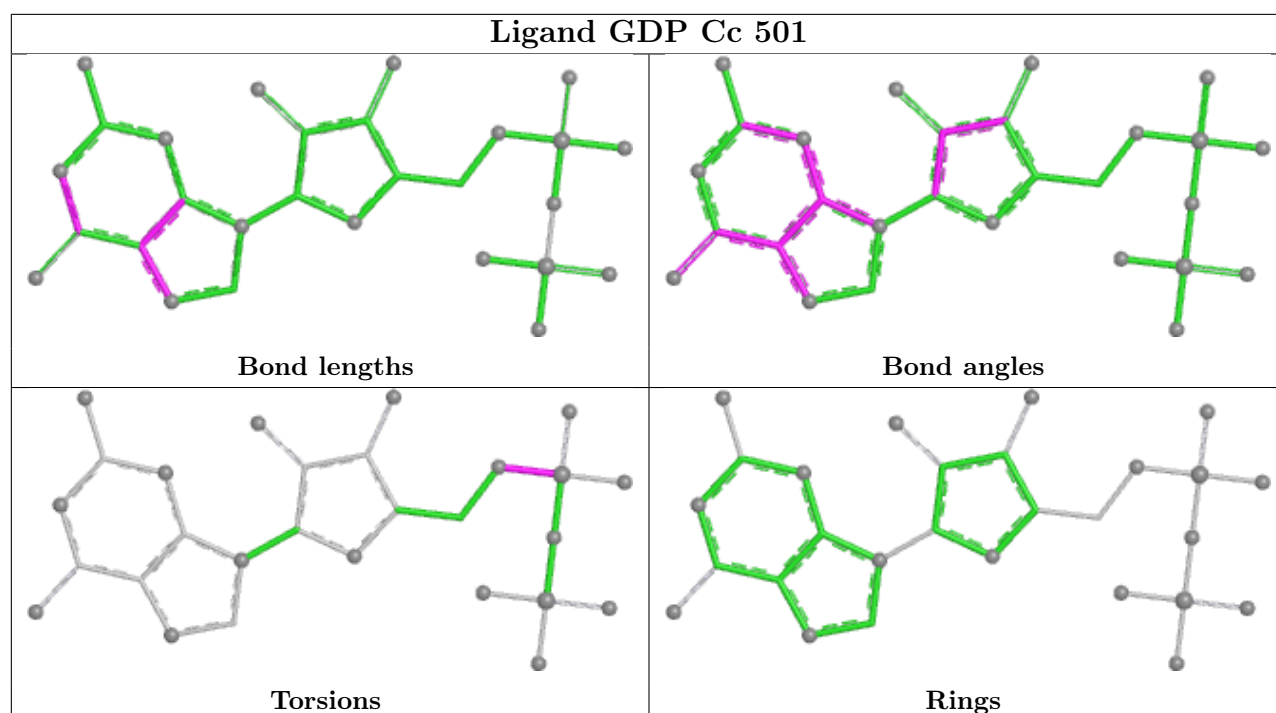


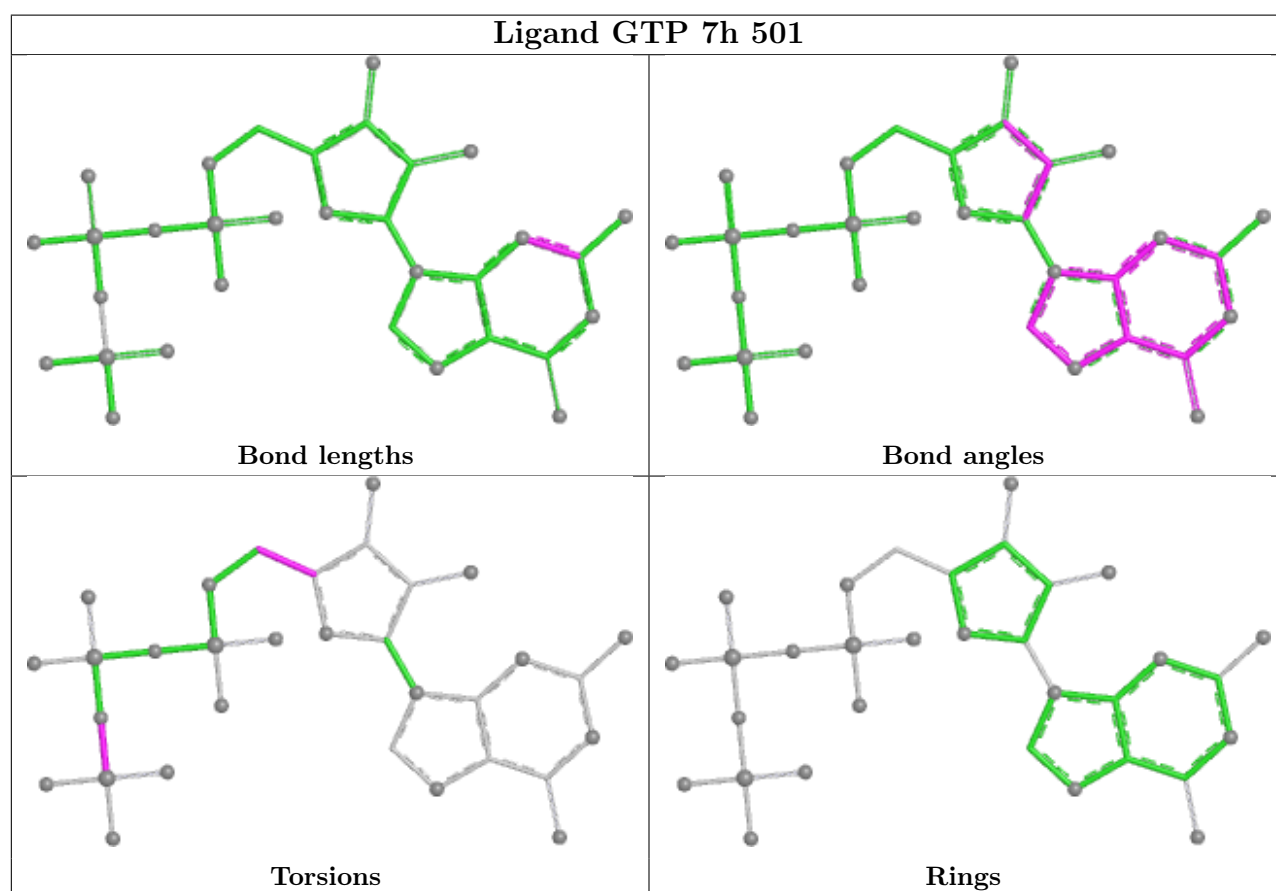
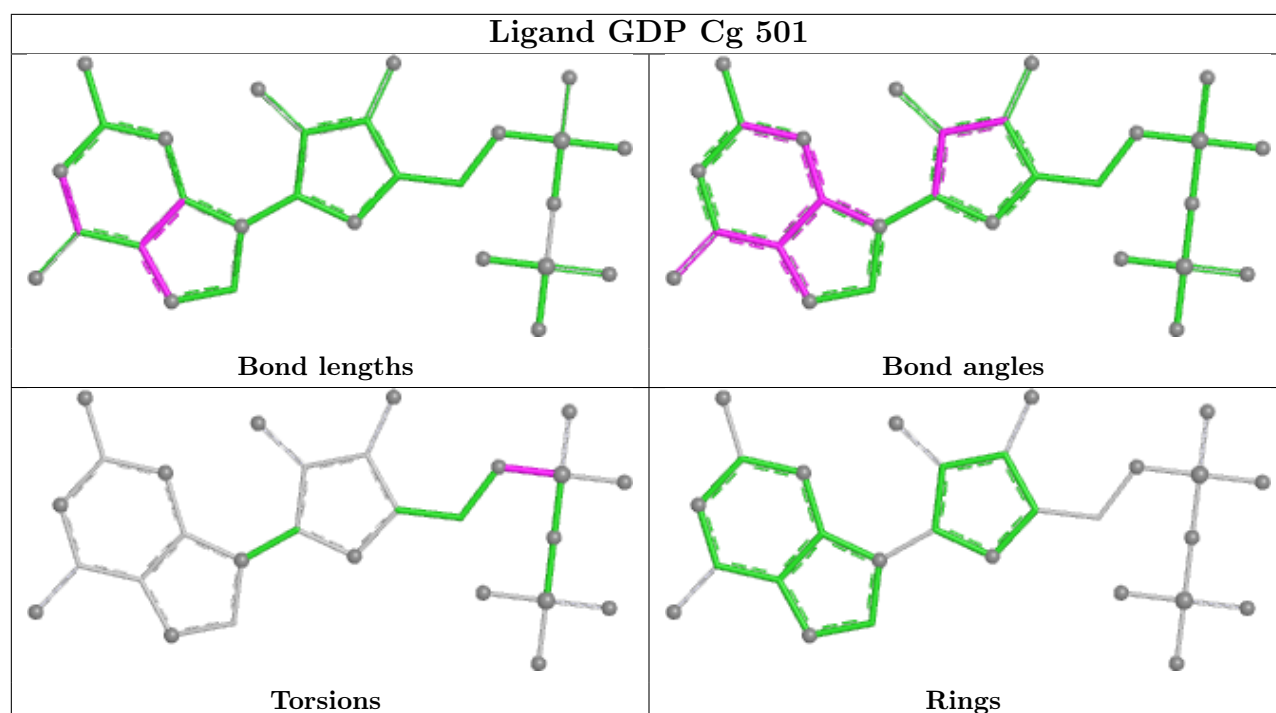
Ligand GTP Ch 501

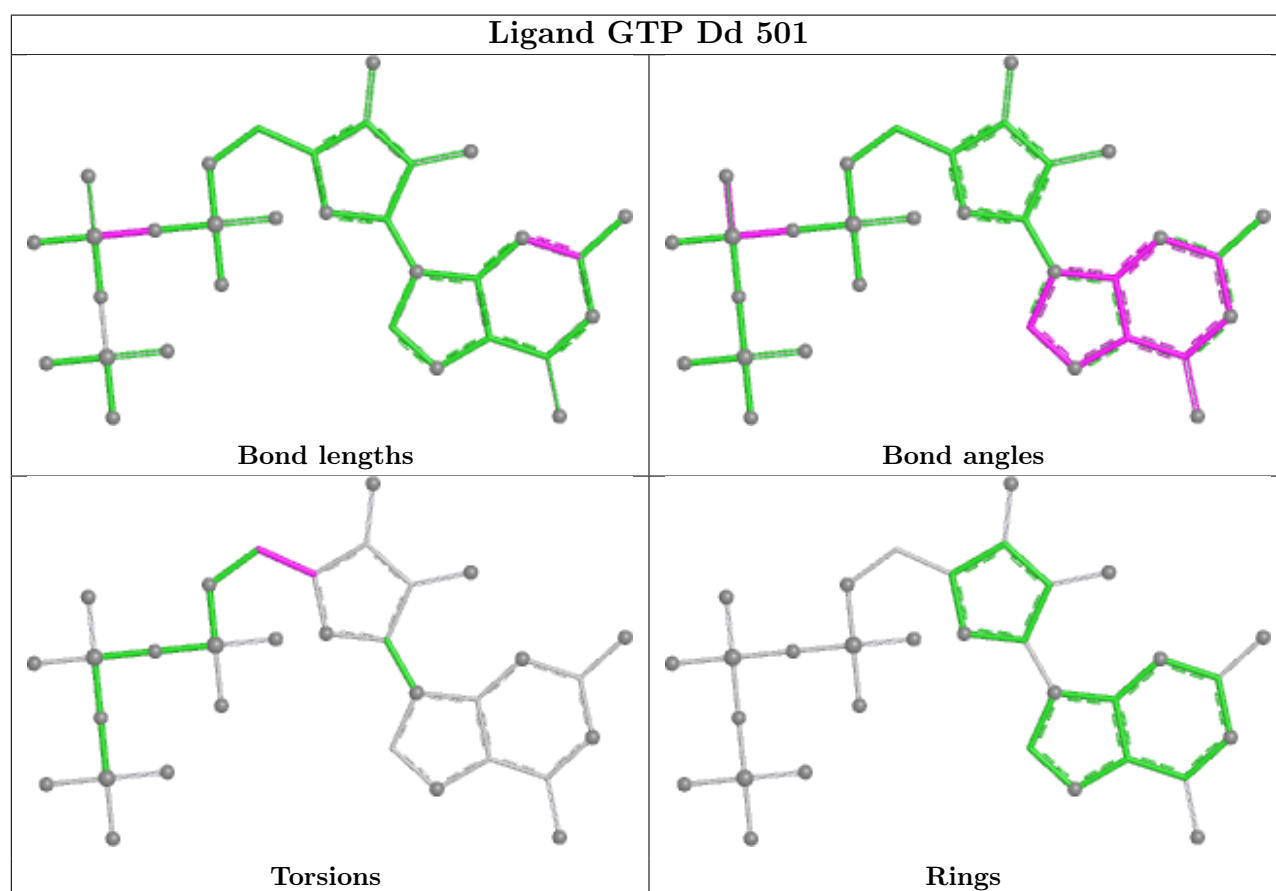
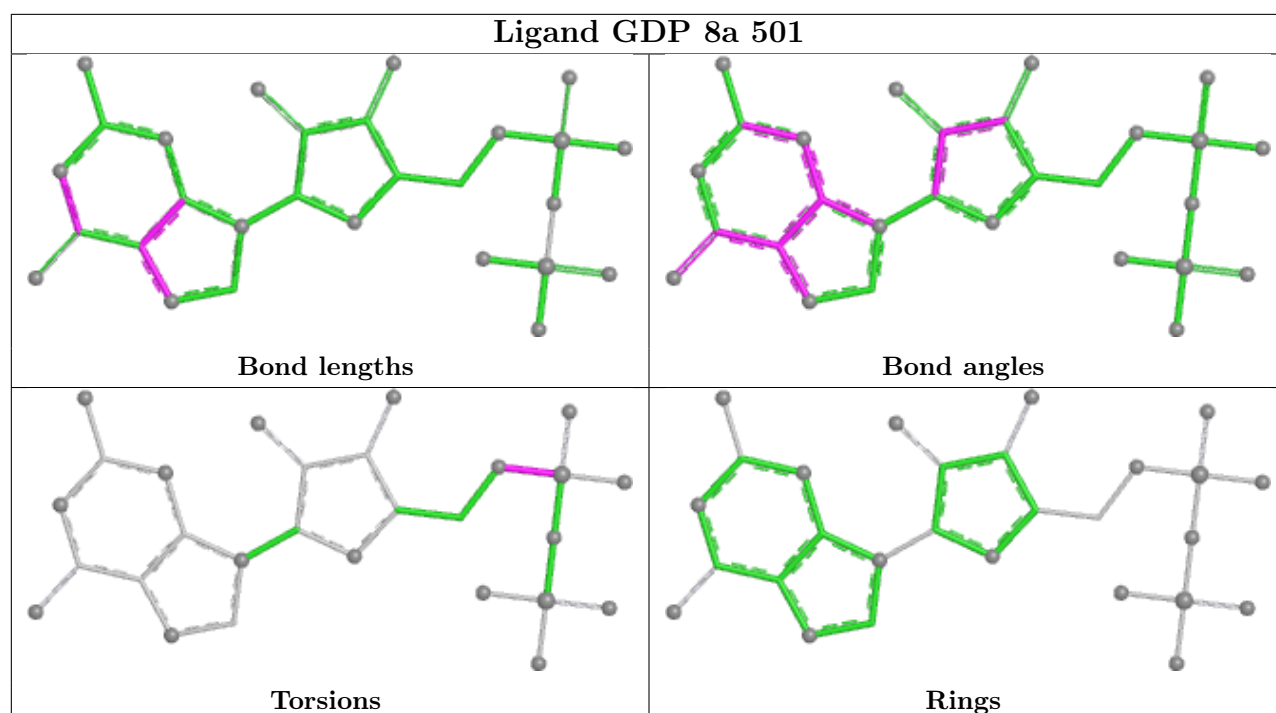


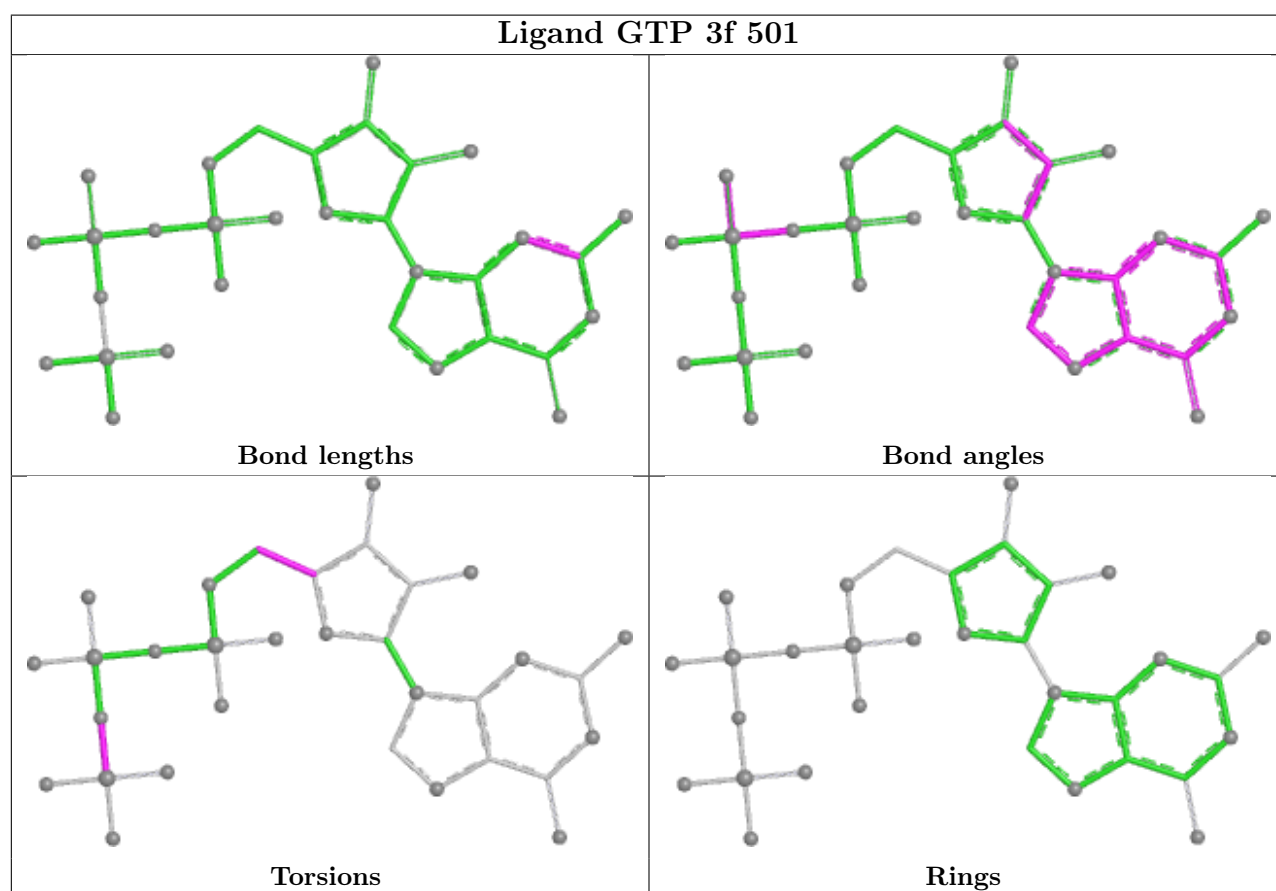
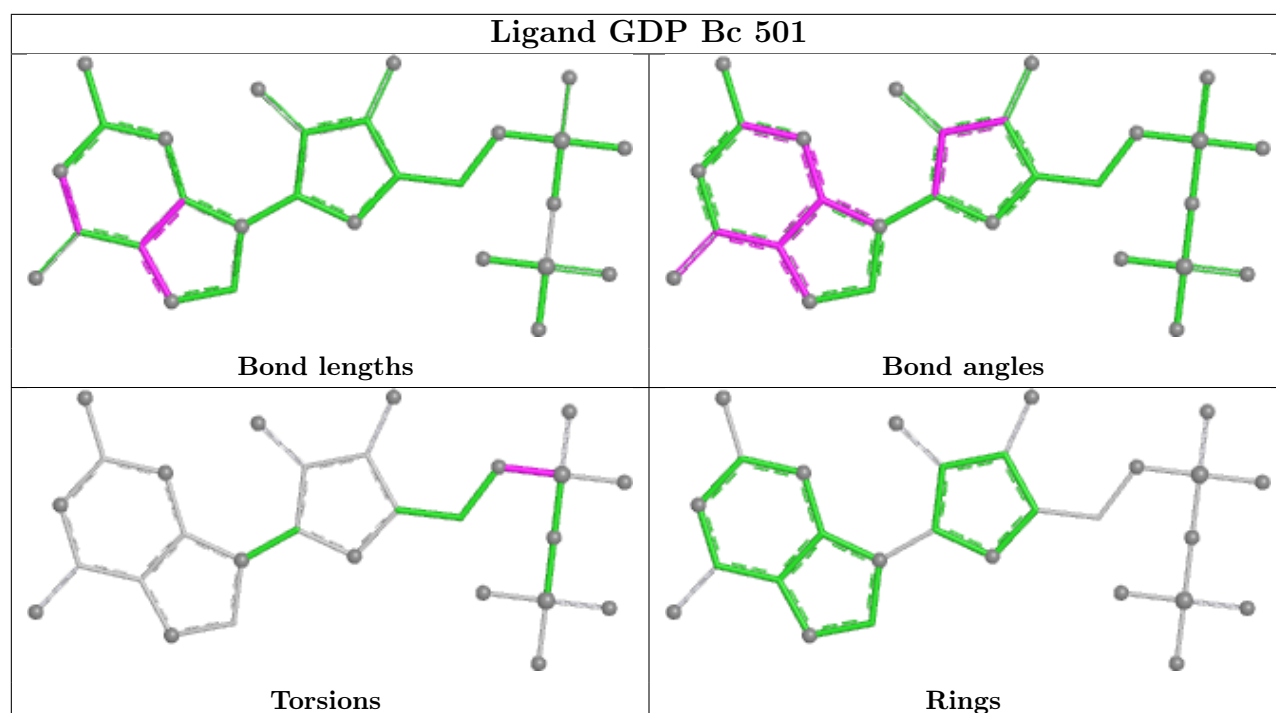
Ligand GTP 5f 501

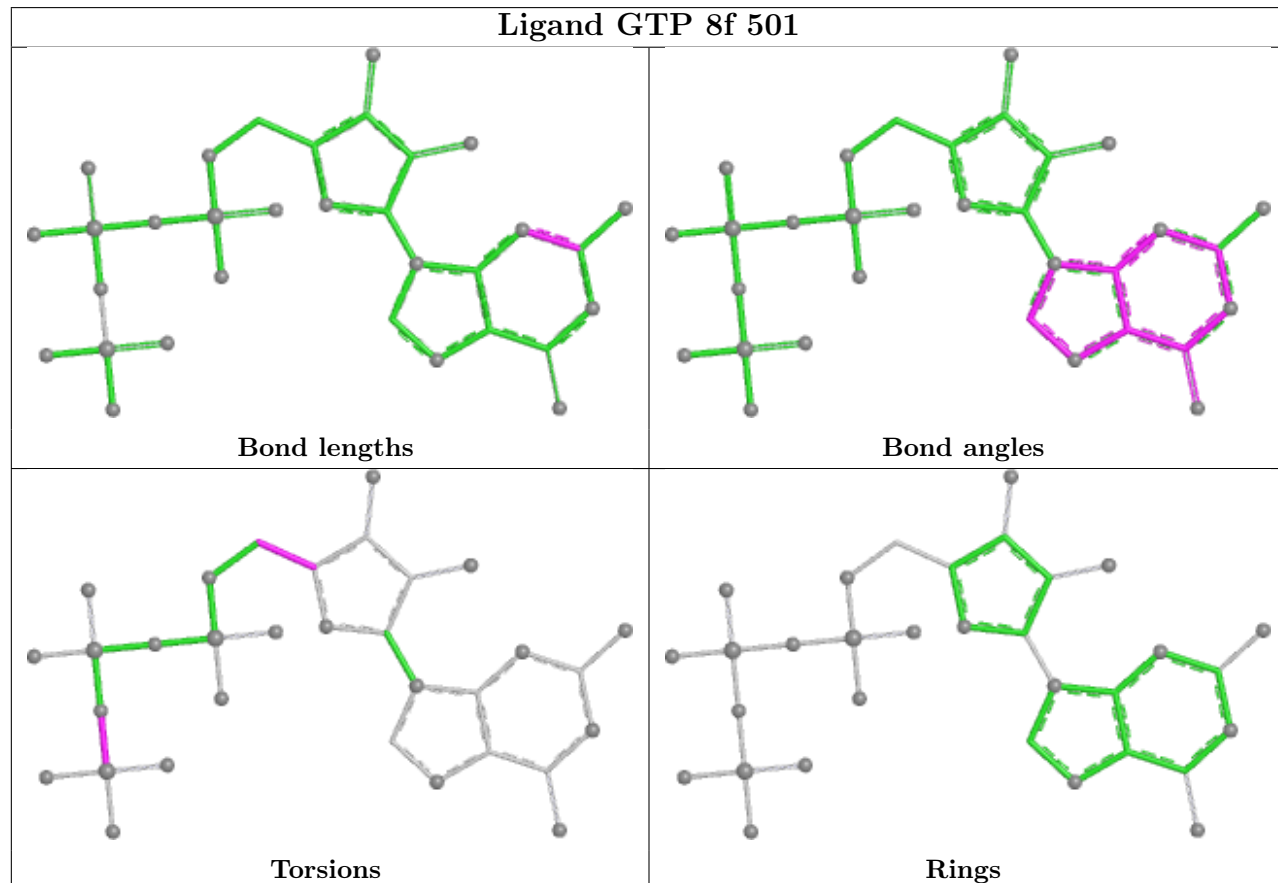
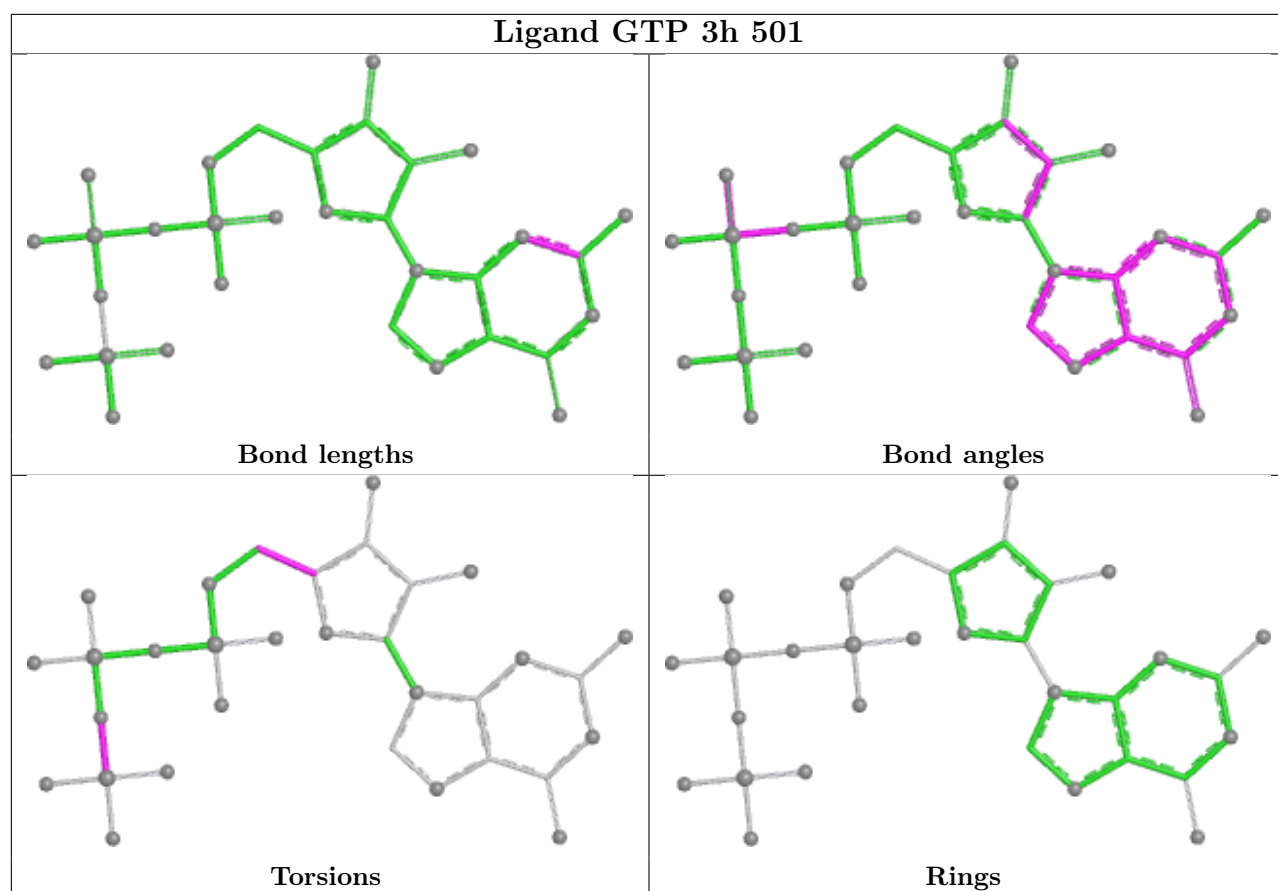


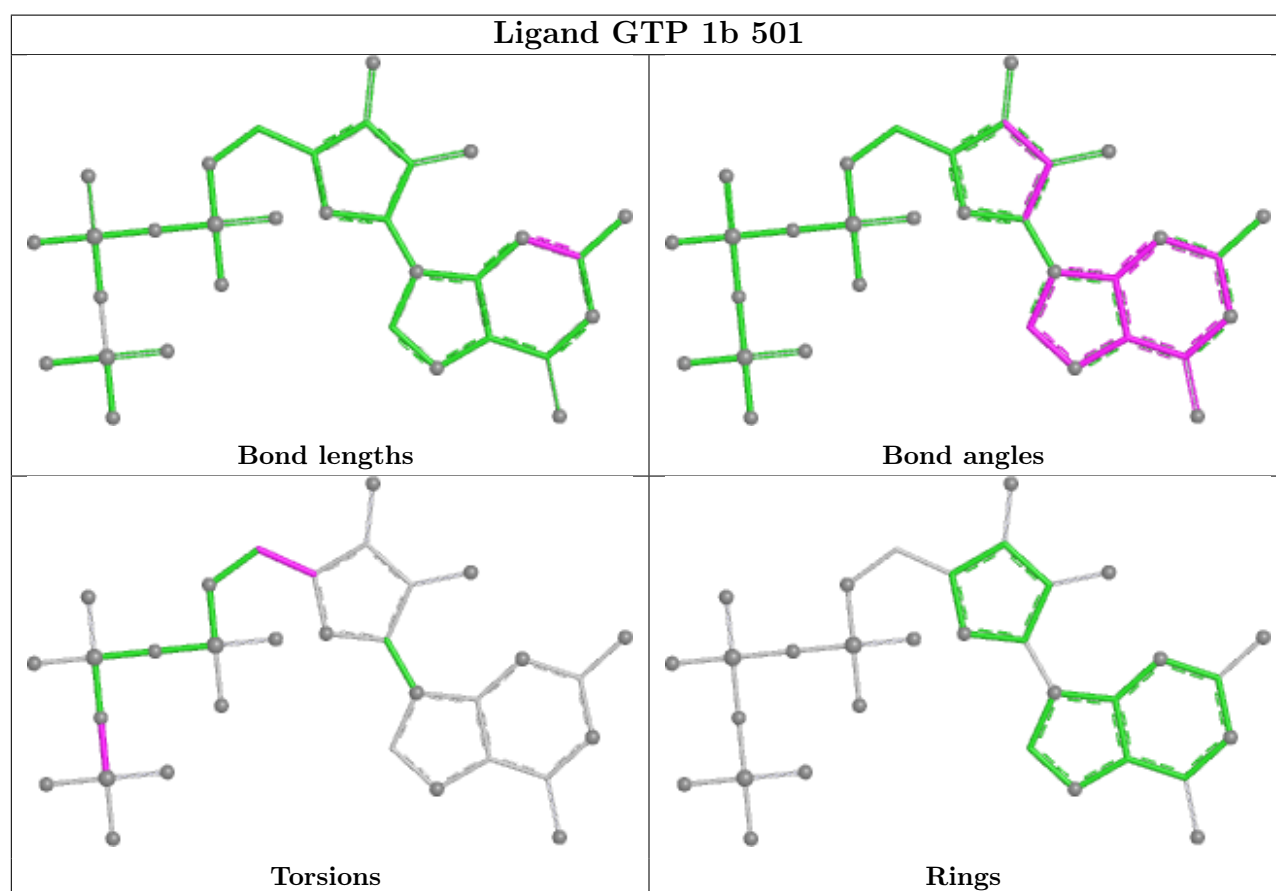
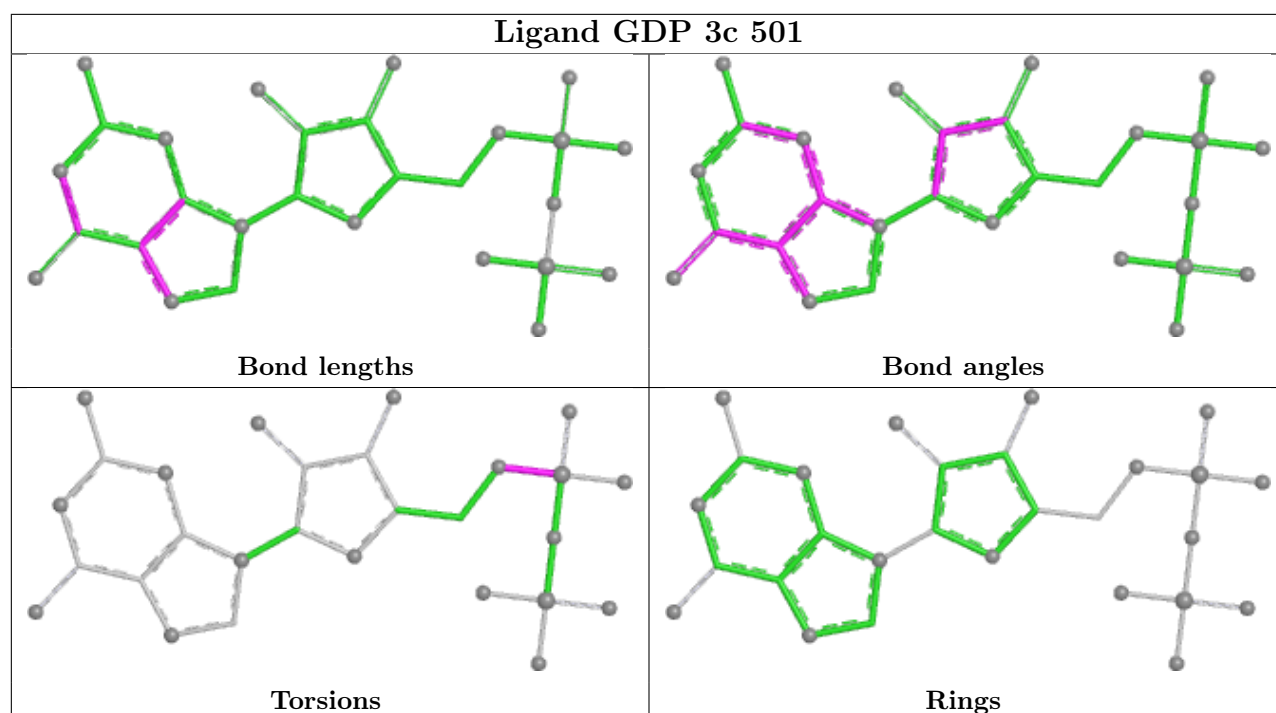


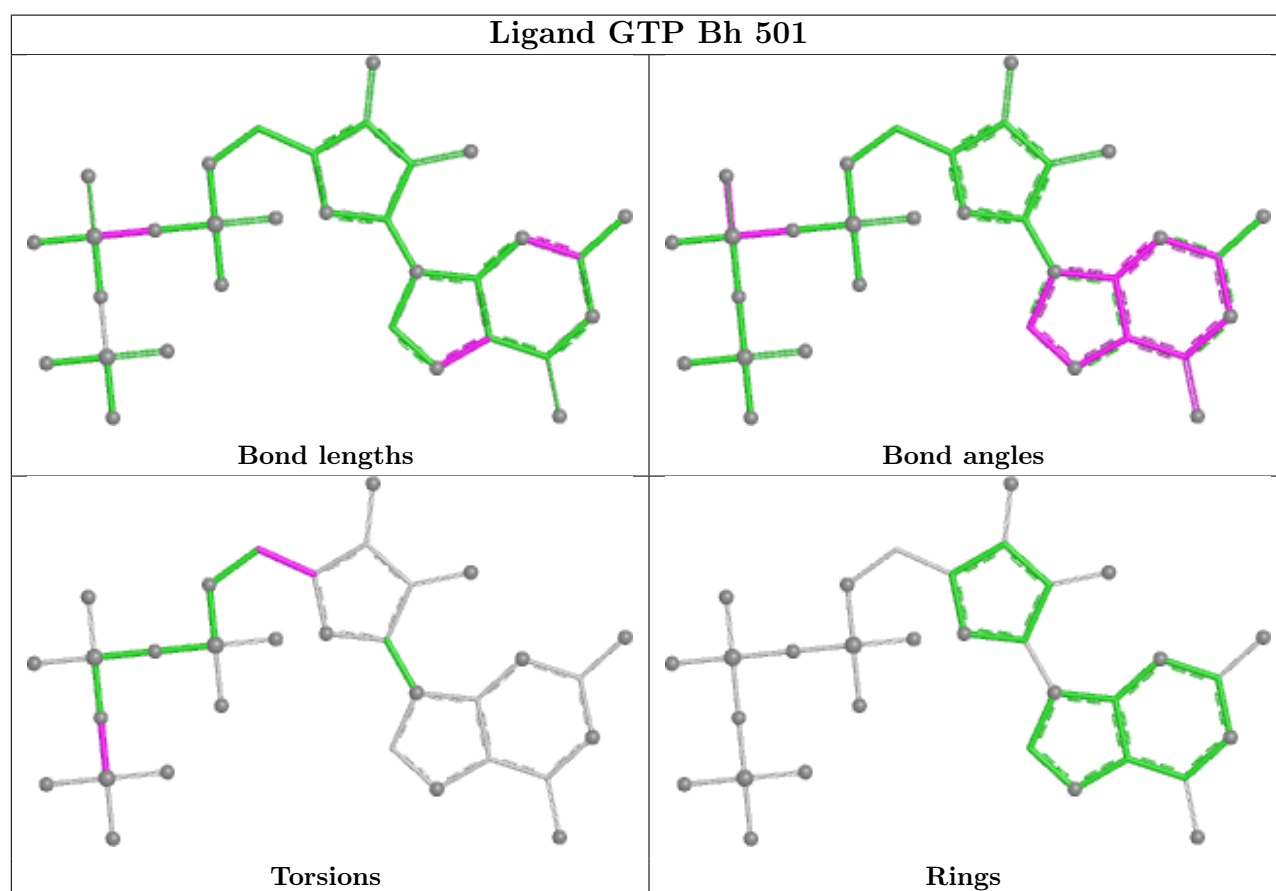
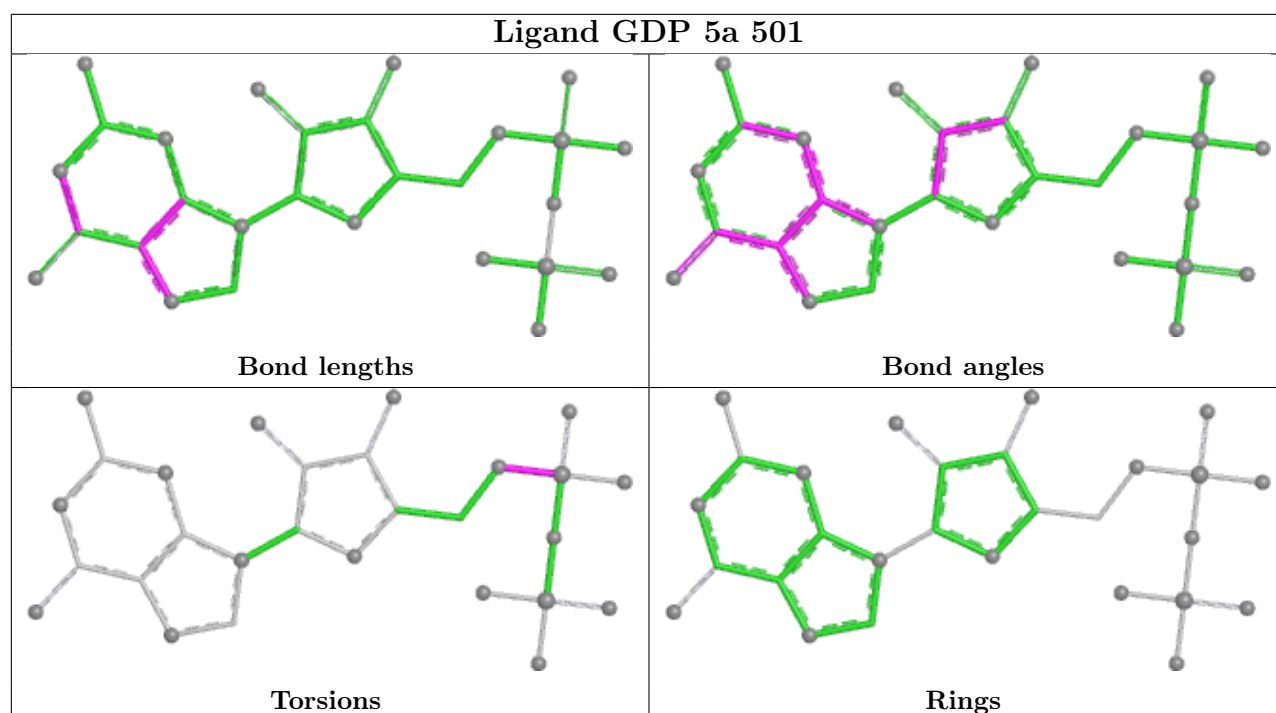


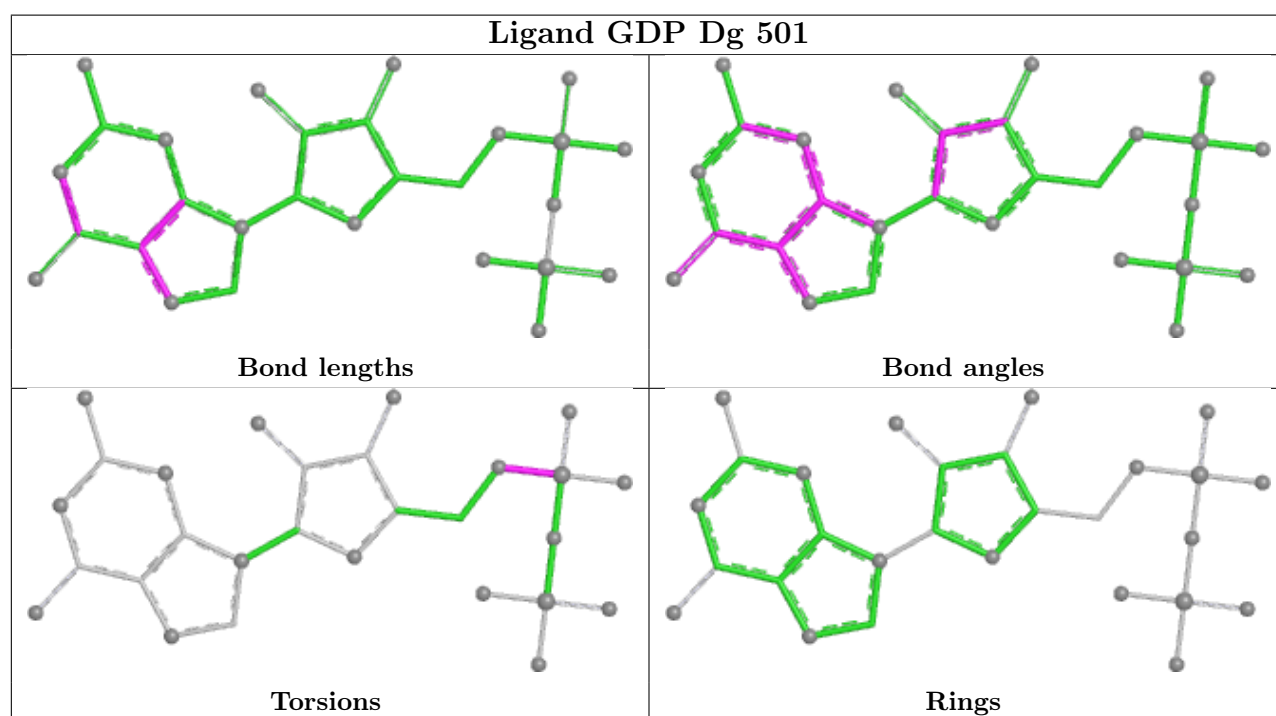
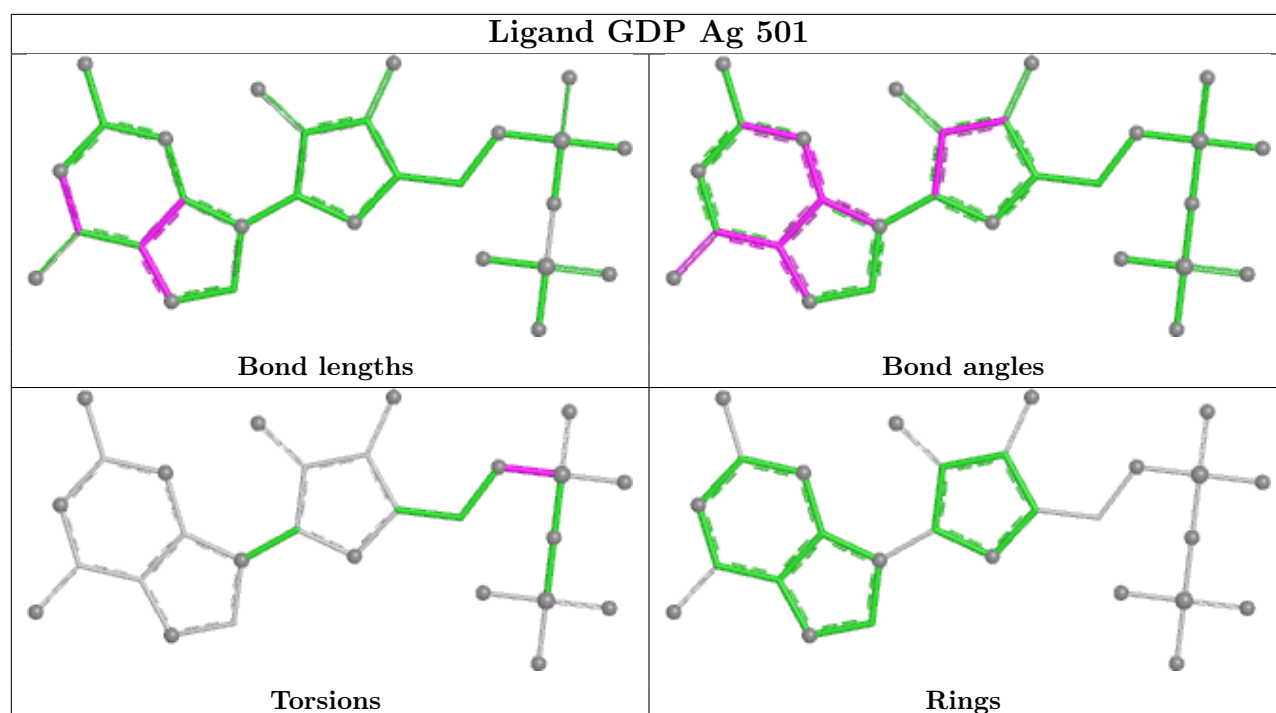


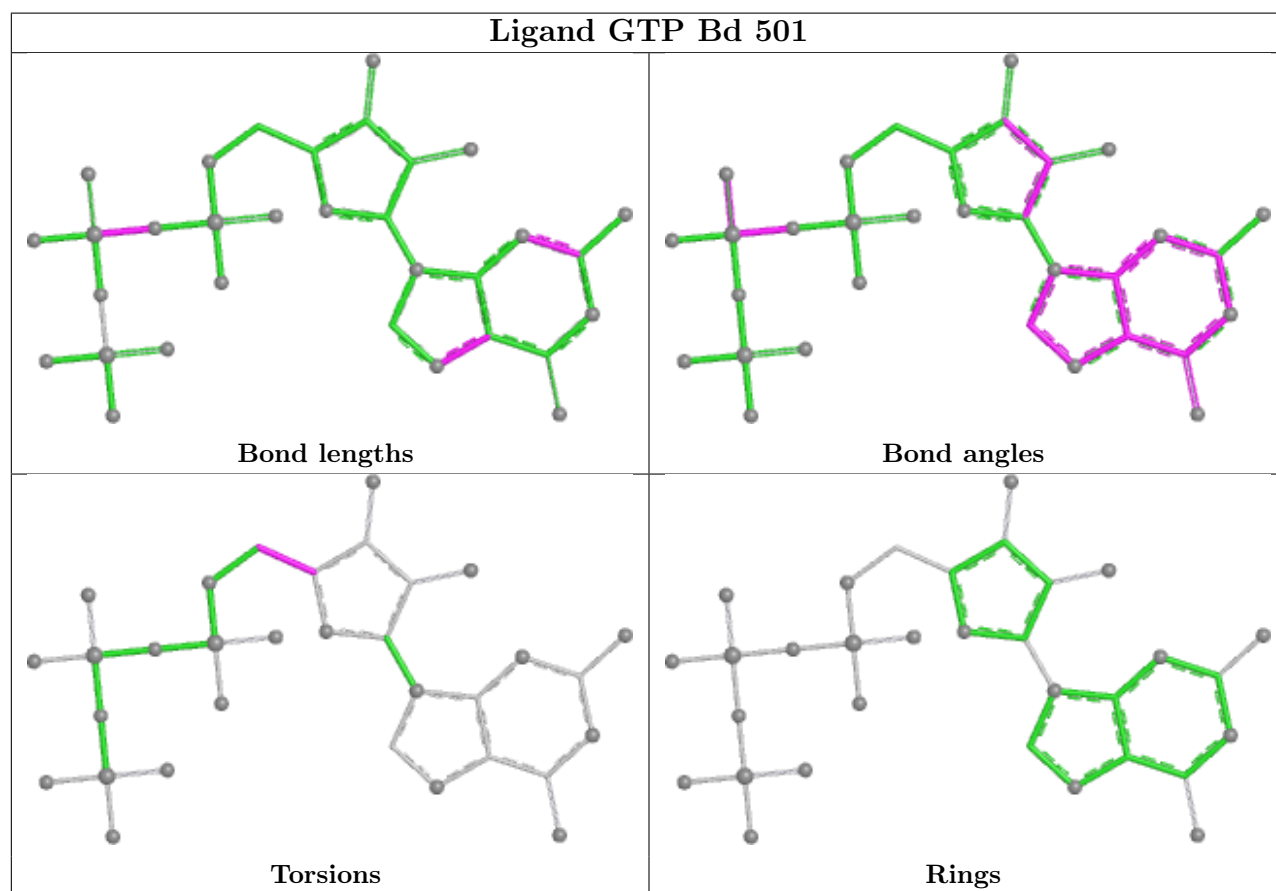
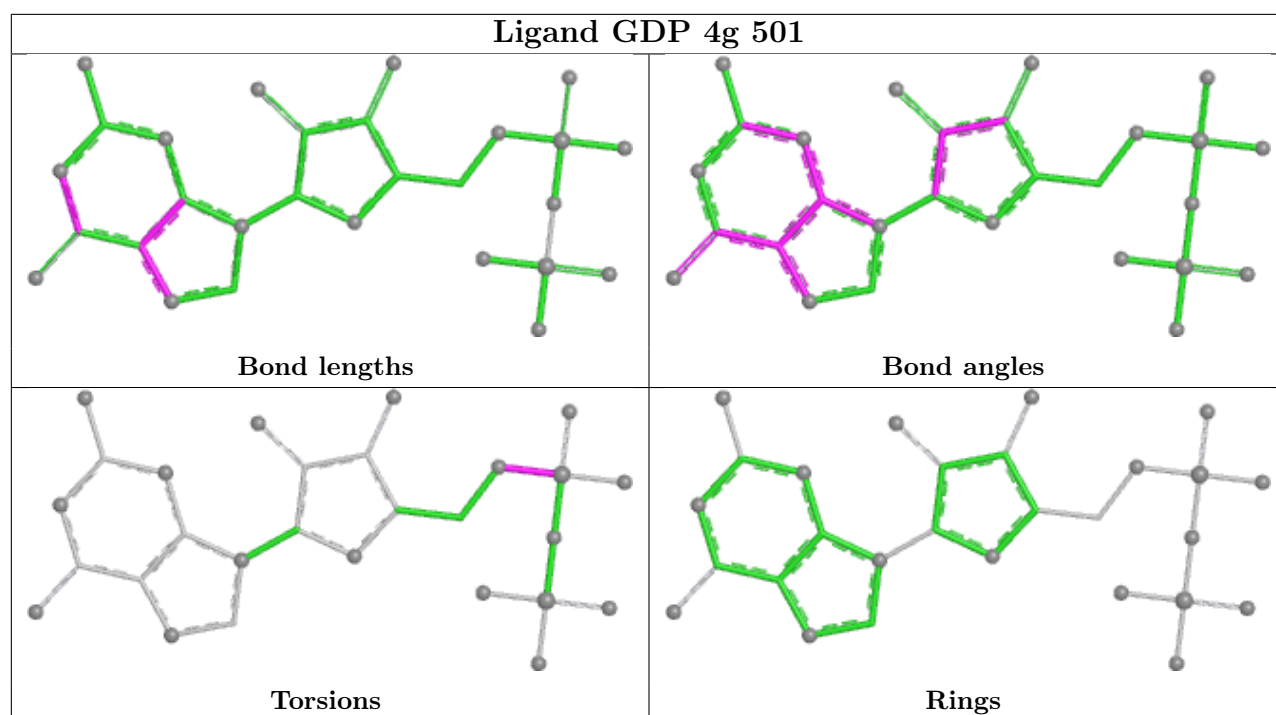


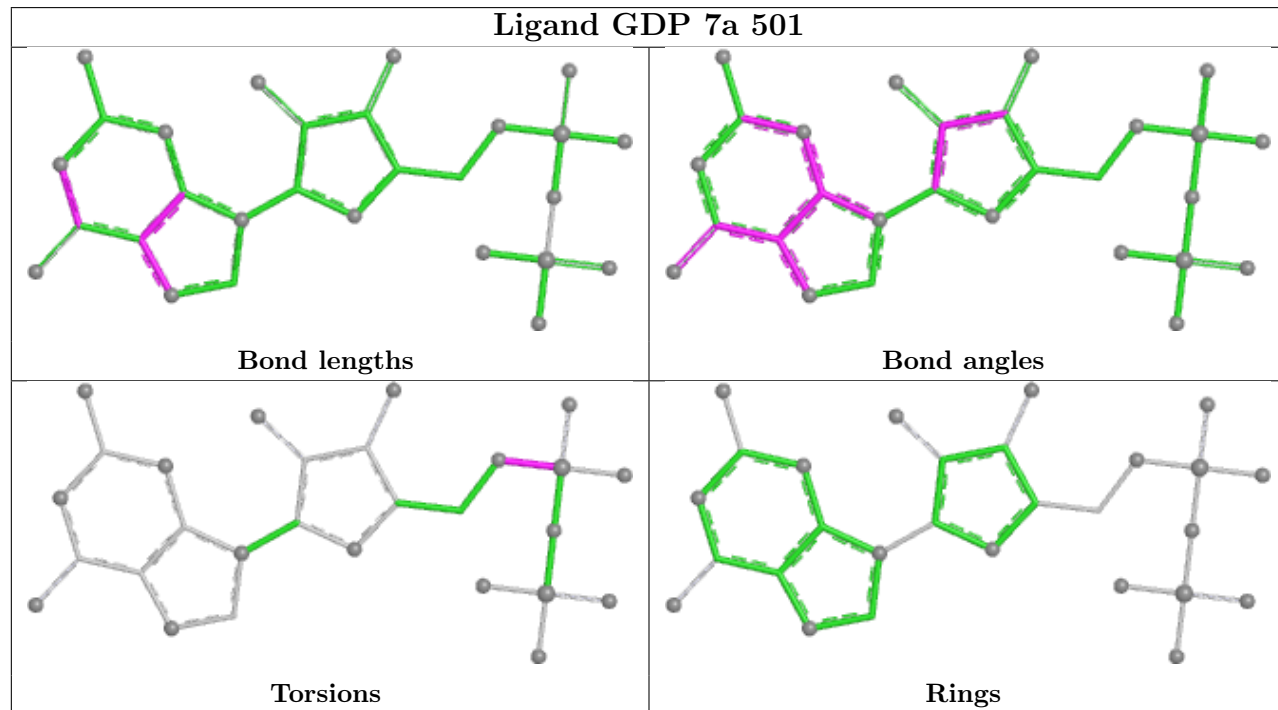
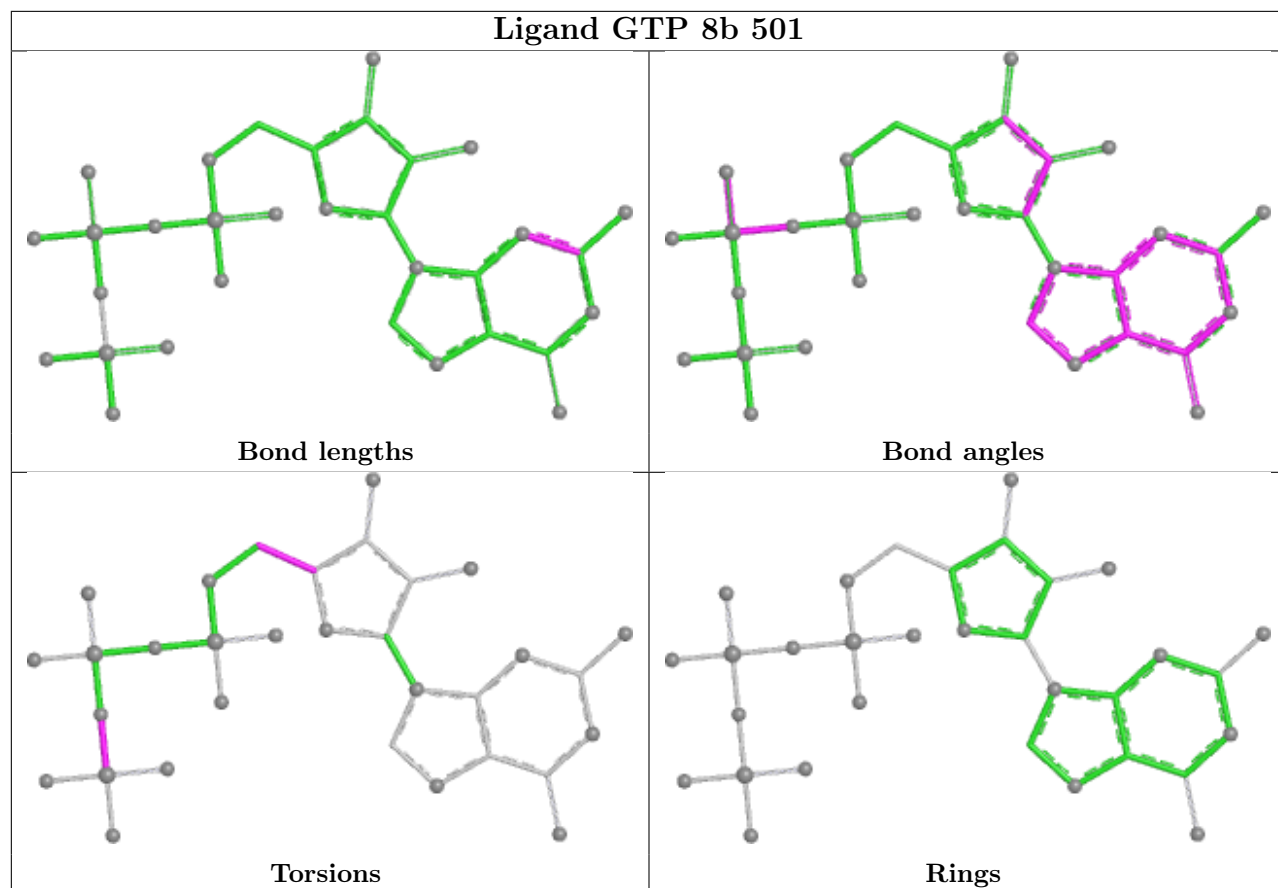




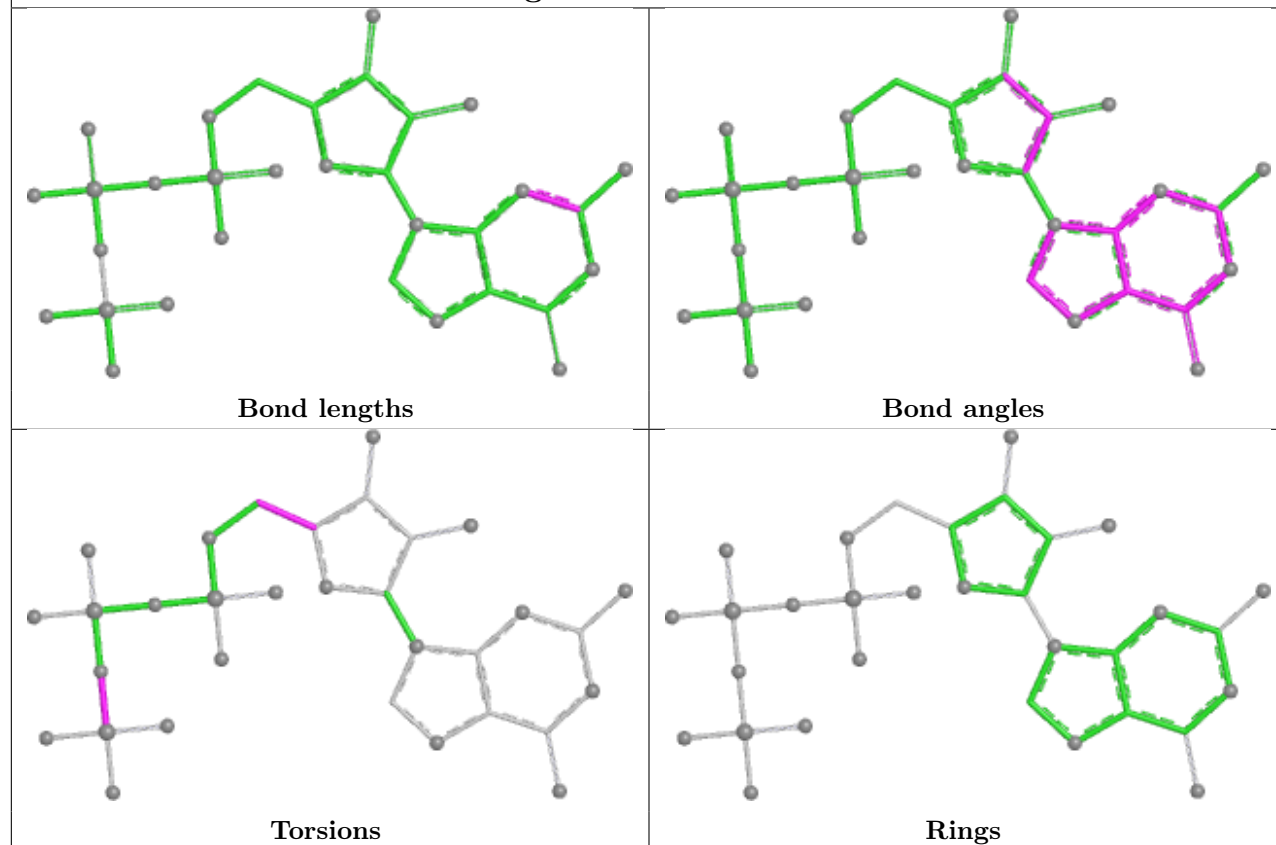




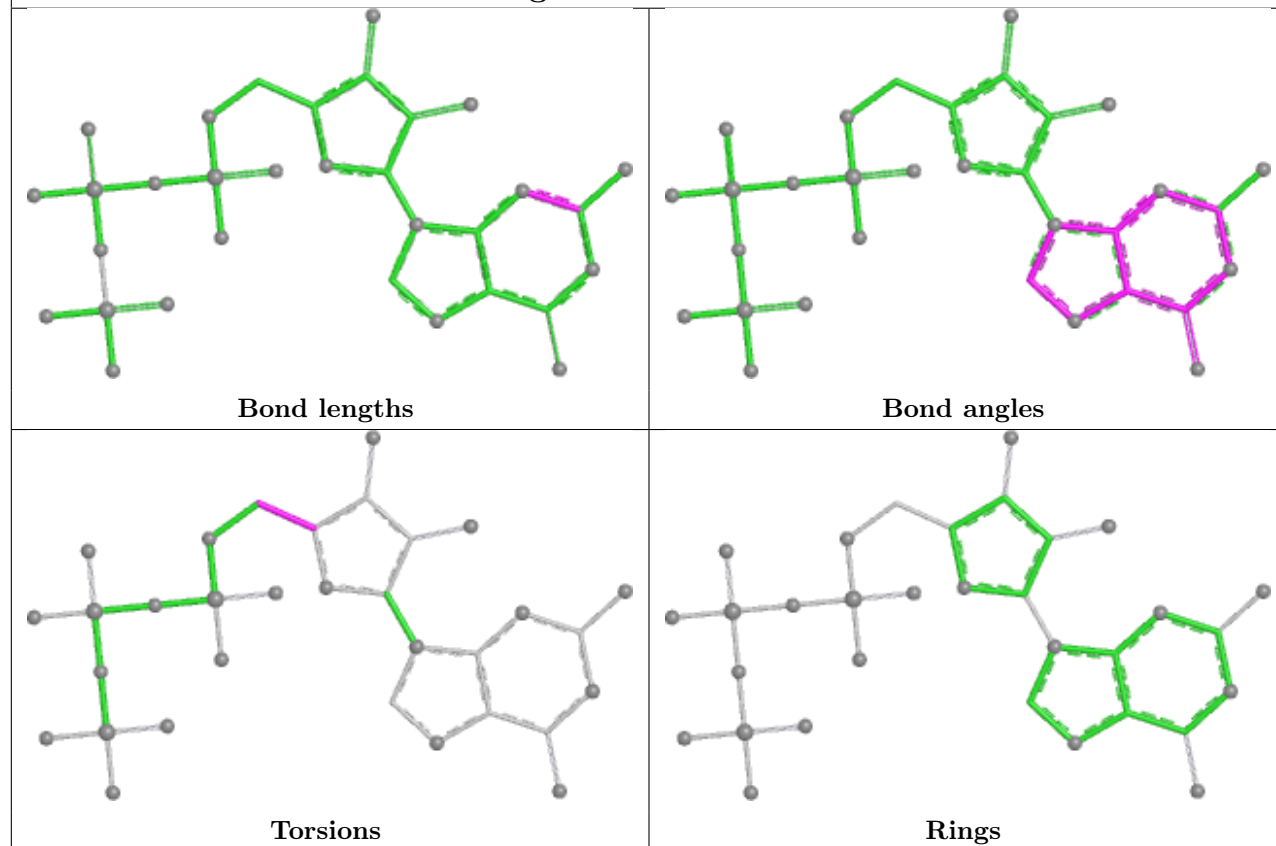


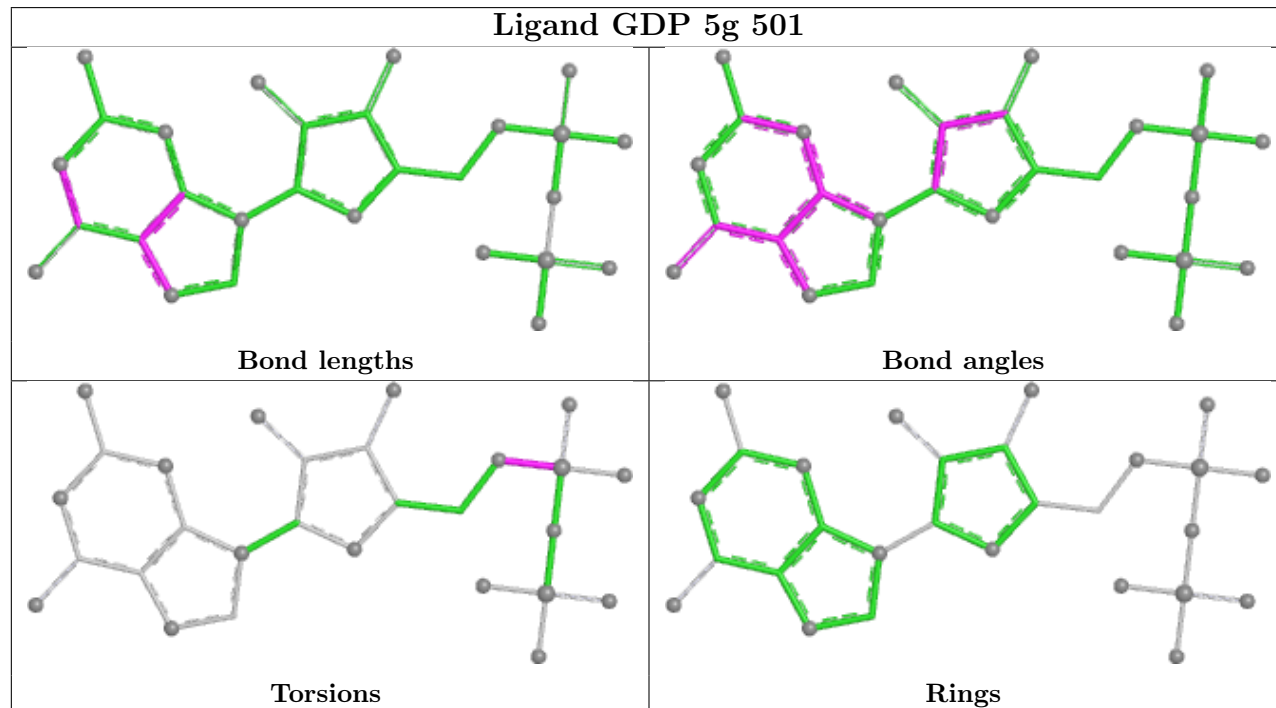
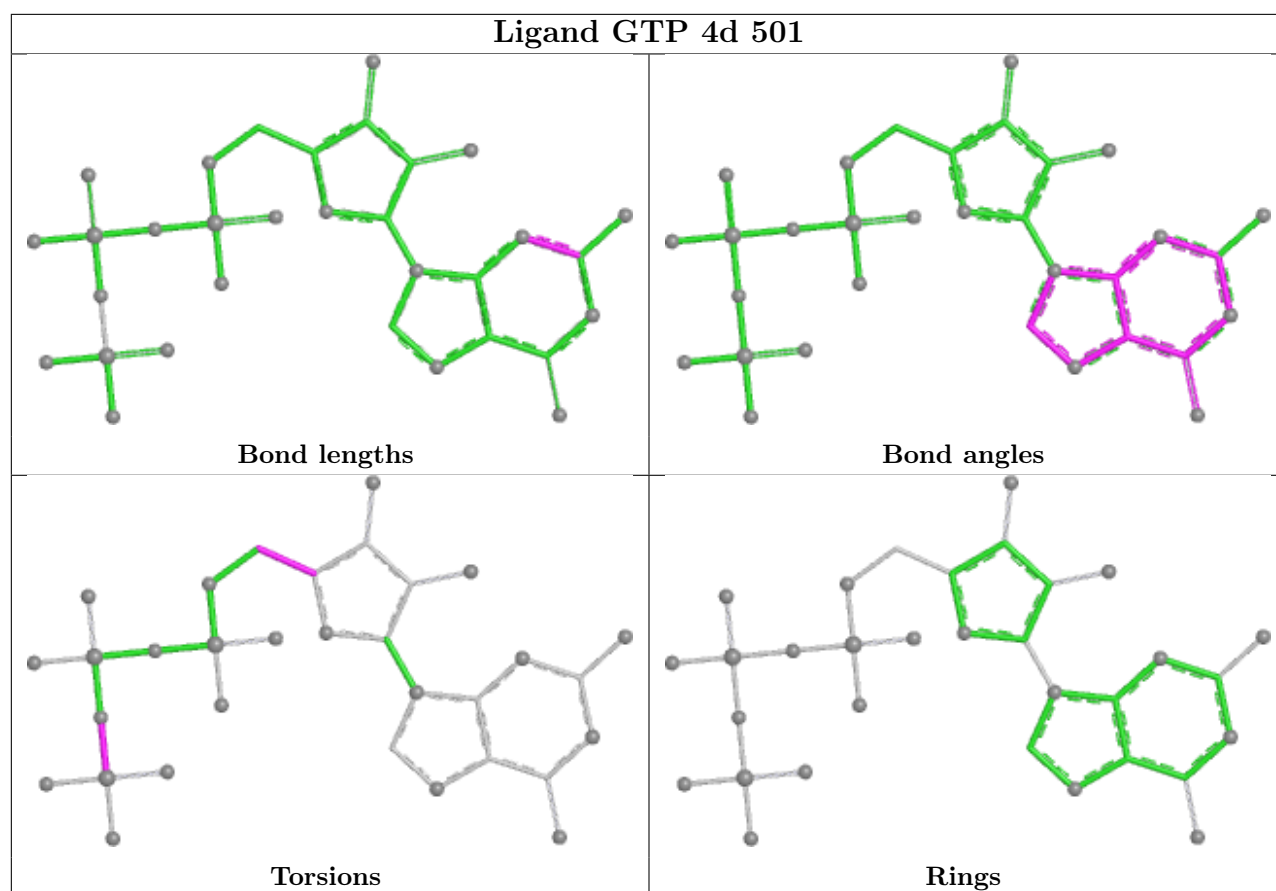


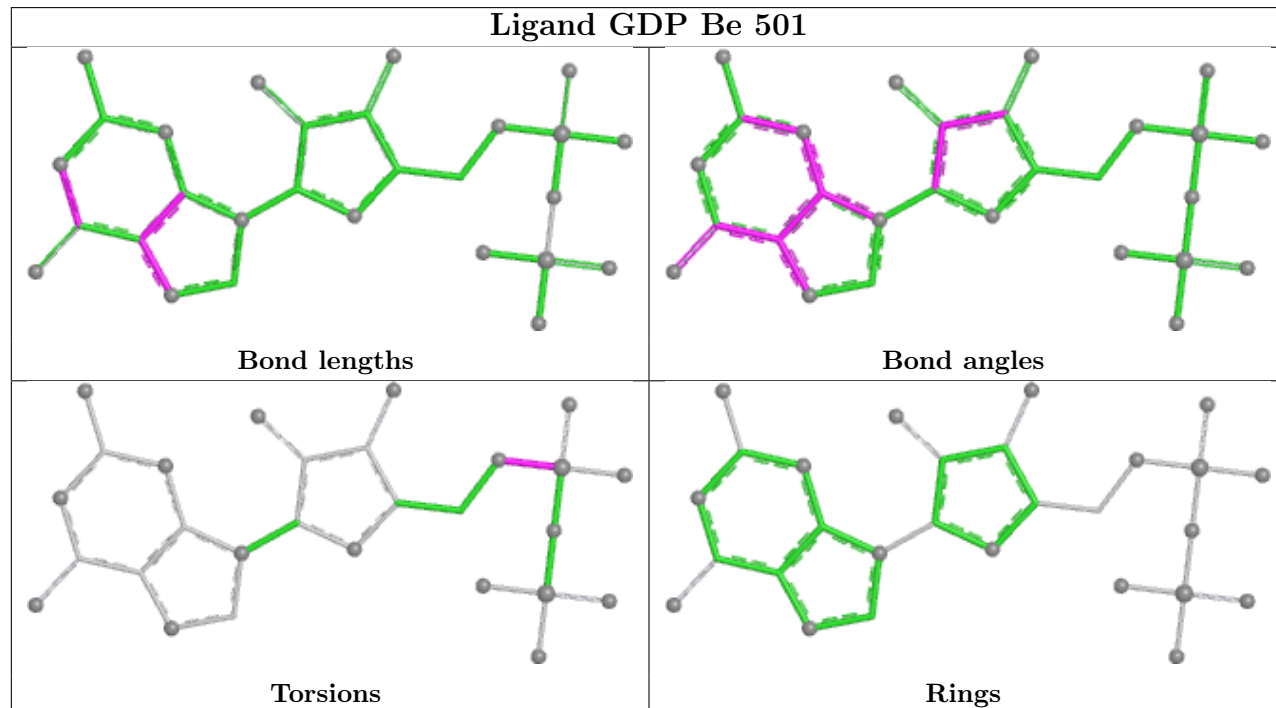
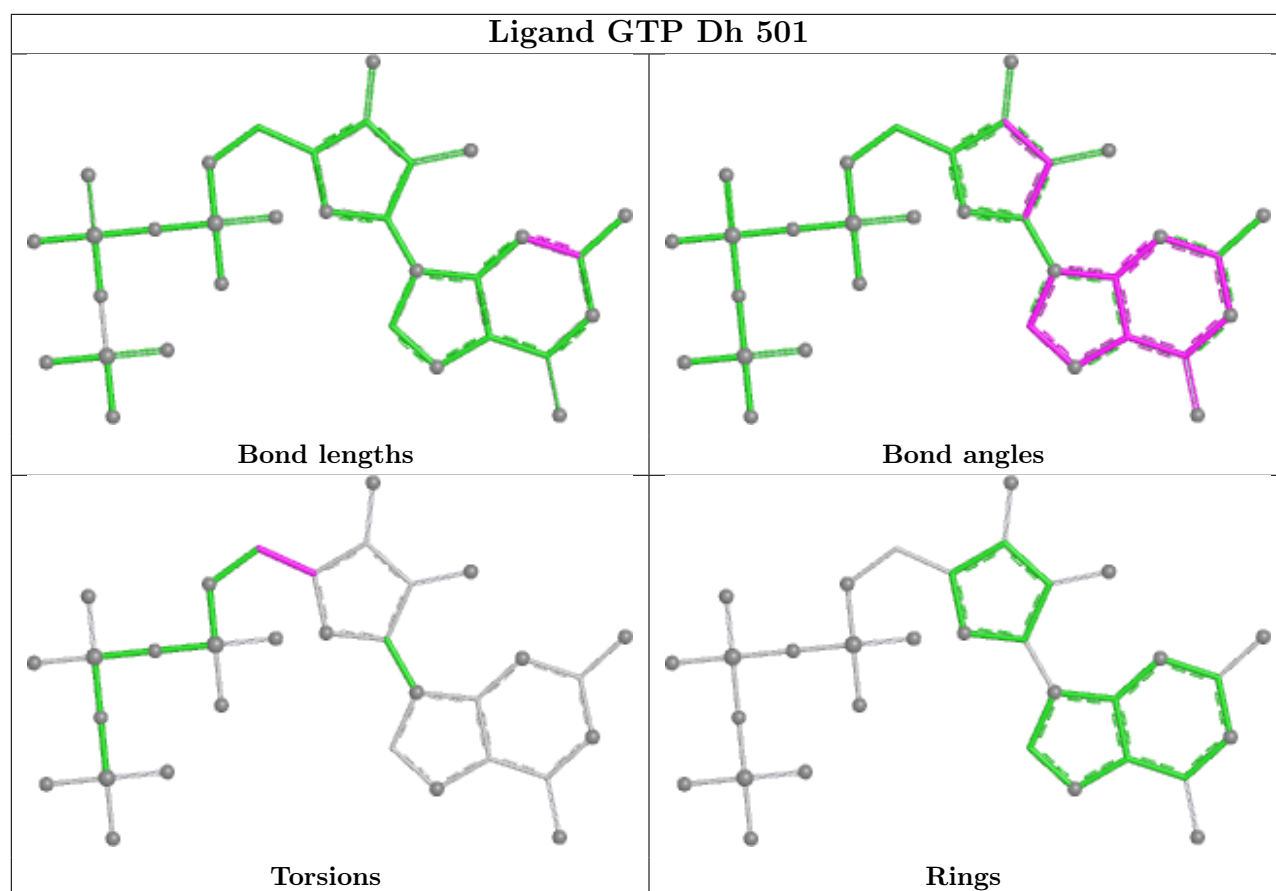
Ligand GTP 8h 501

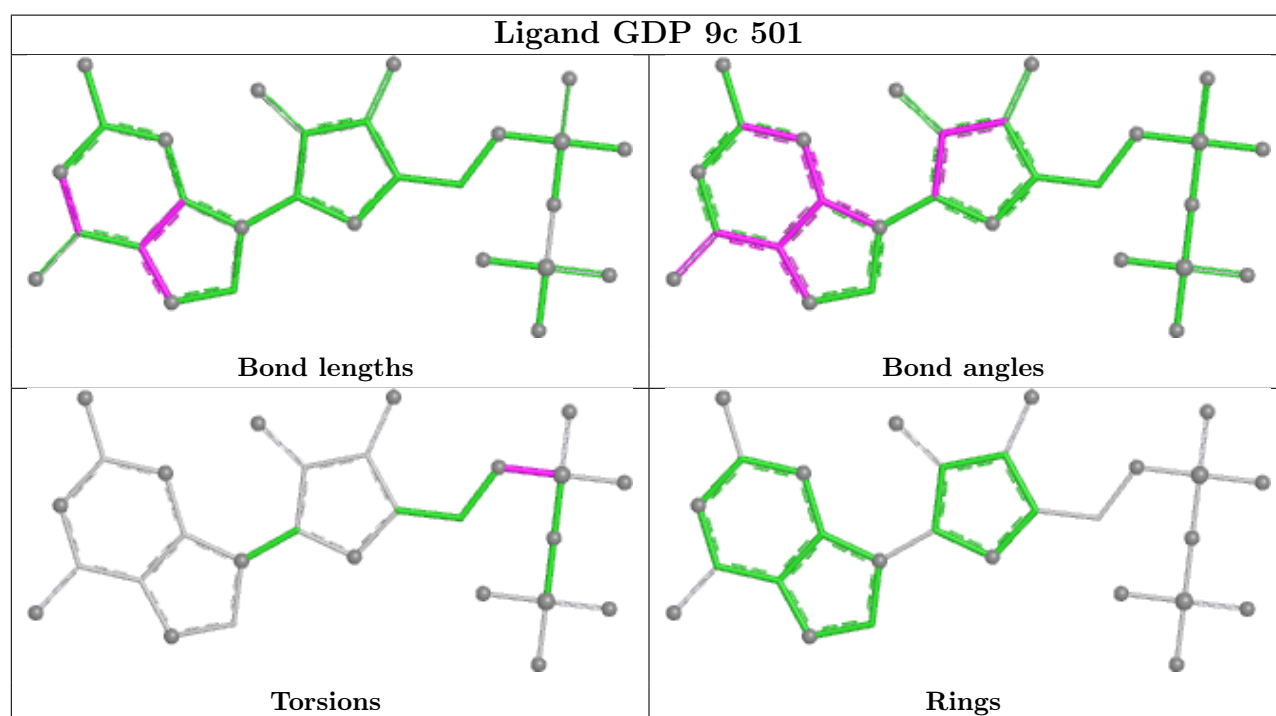
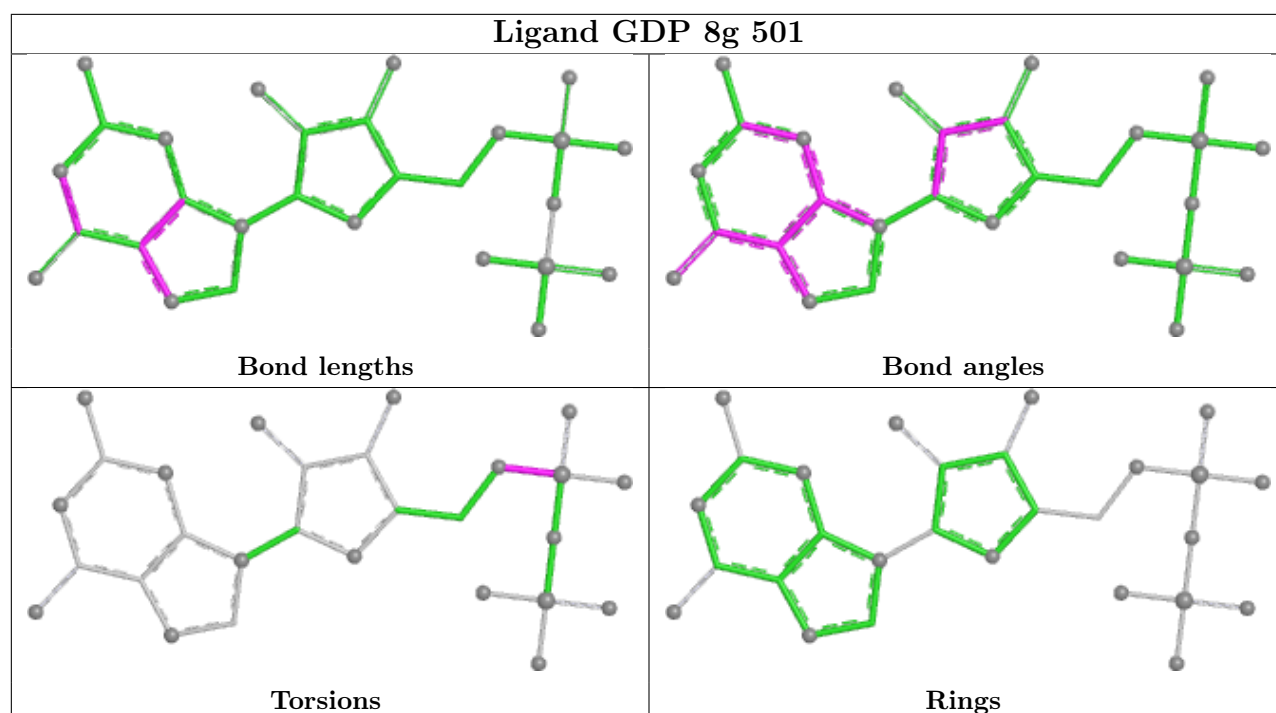


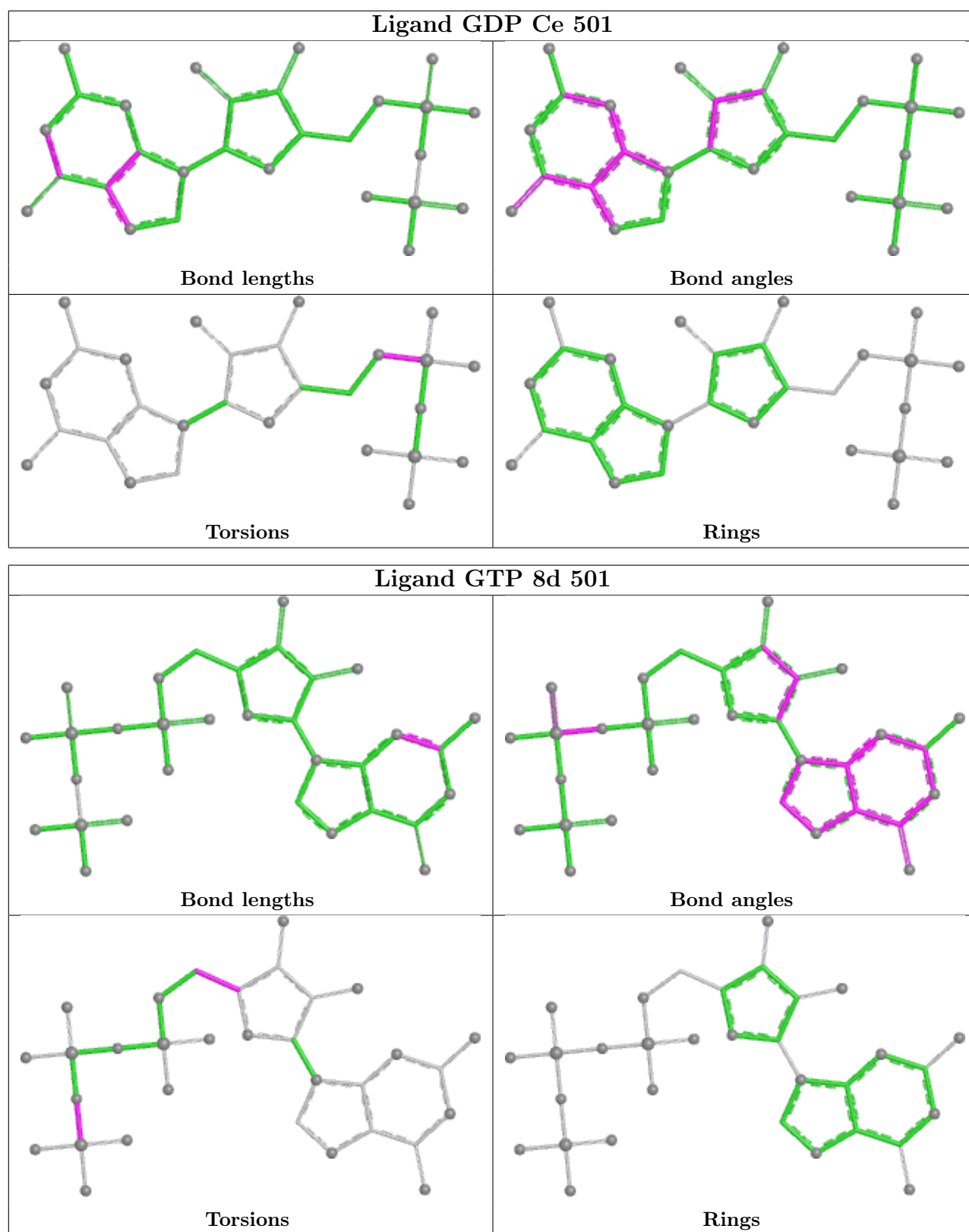
Ligand GTP 7f 501











5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

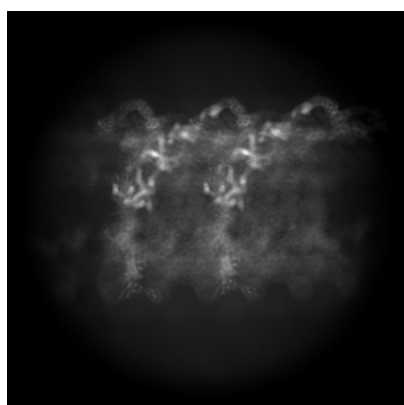
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-24191. These allow visual inspection of the internal detail of the map and identification of artifacts.

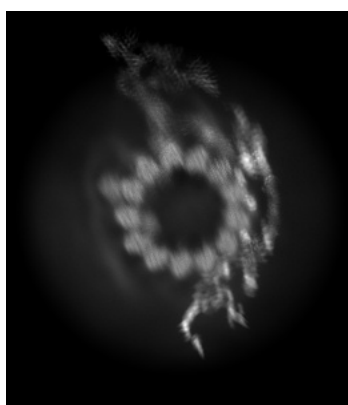
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

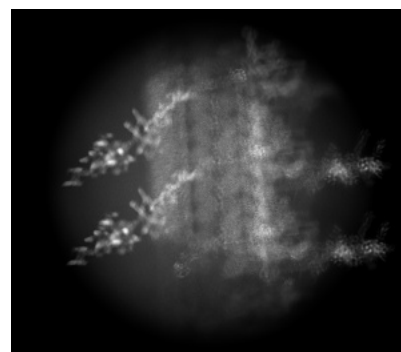
6.1.1 Primary map



X



Y

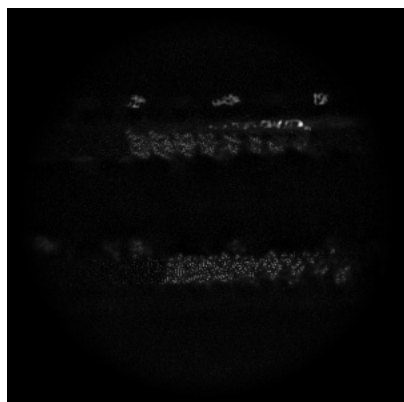


Z

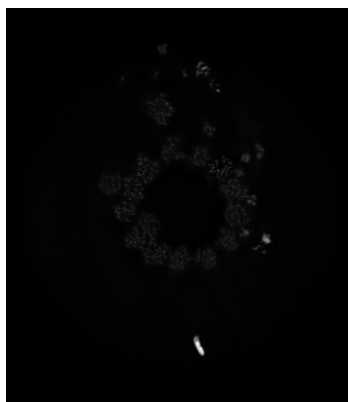
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

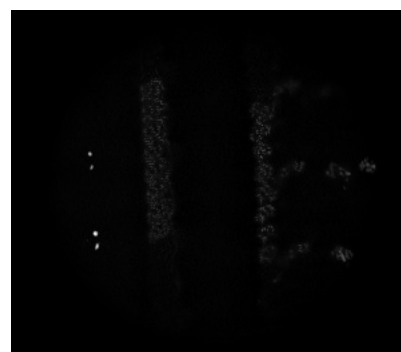
6.2.1 Primary map



X Index: 303



Y Index: 263



Z Index: 263

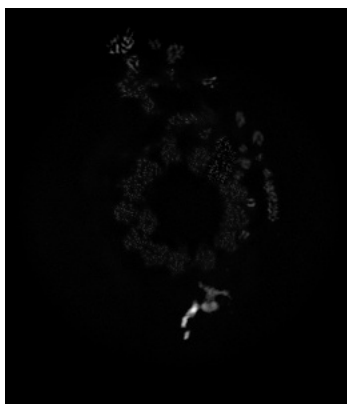
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

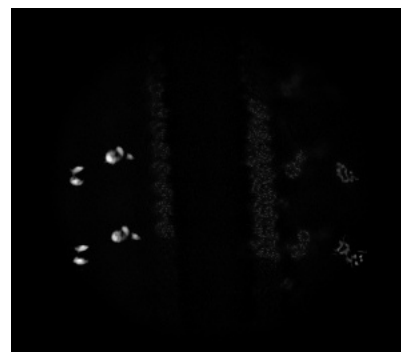
6.3.1 Primary map



X Index: 147



Y Index: 294

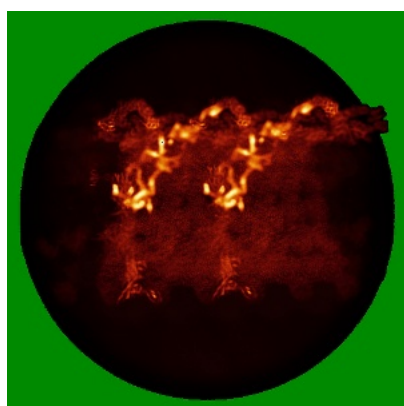


Z Index: 288

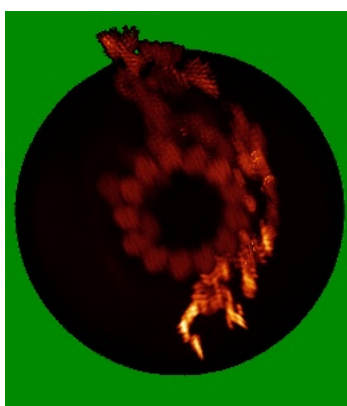
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

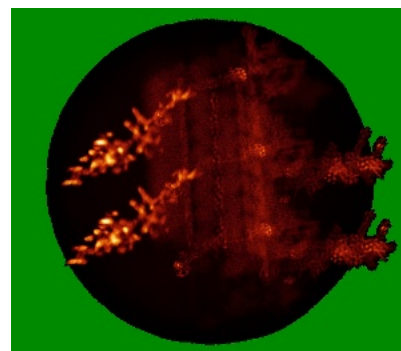
6.4.1 Primary map



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

This section was not generated.

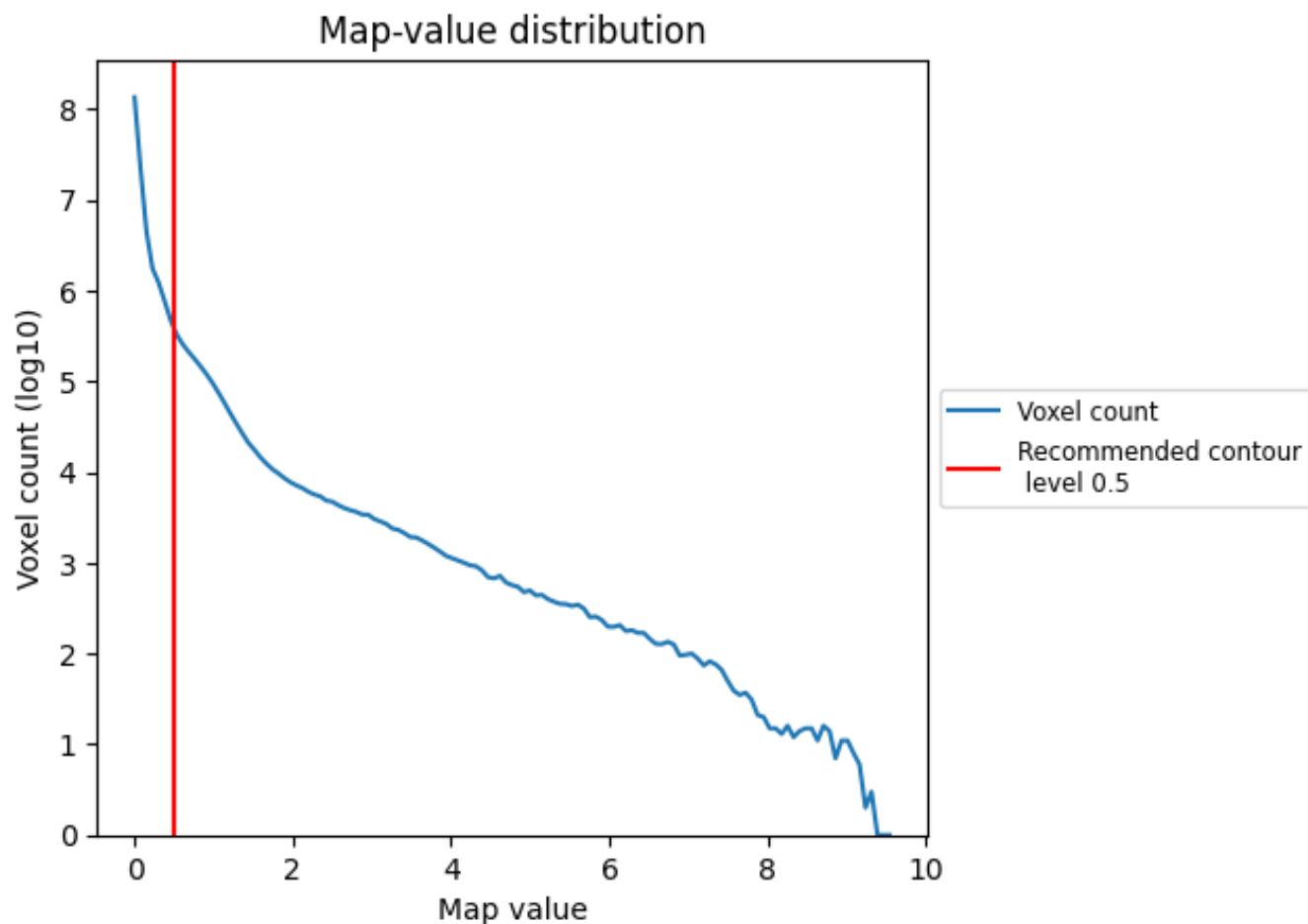
6.6 Mask visualisation

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

7 Map analysis [i](#)

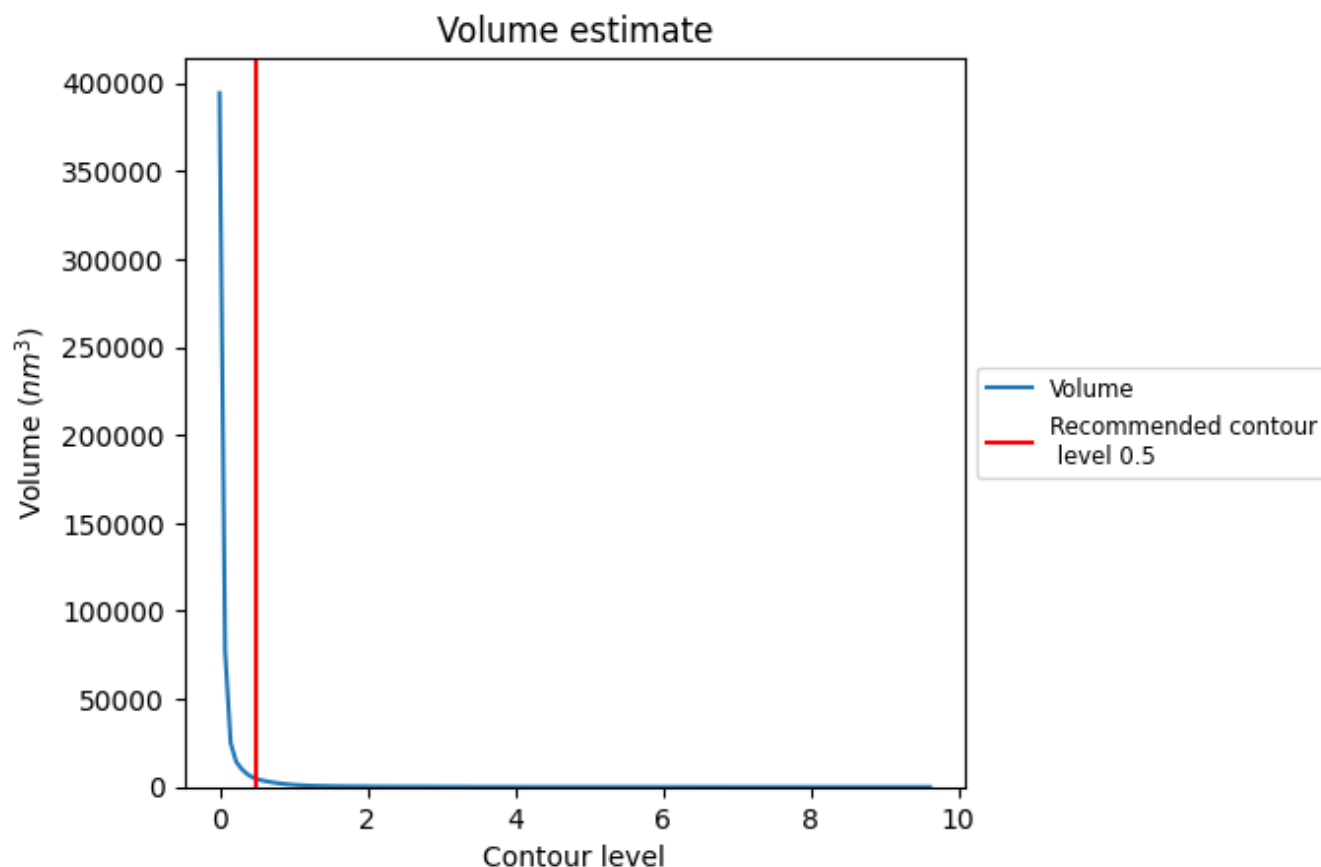
This section contains the results of statistical analysis of the map.

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 4655 nm³; this corresponds to an approximate mass of 4205 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.

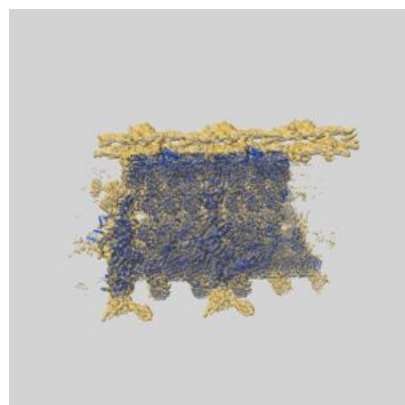
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

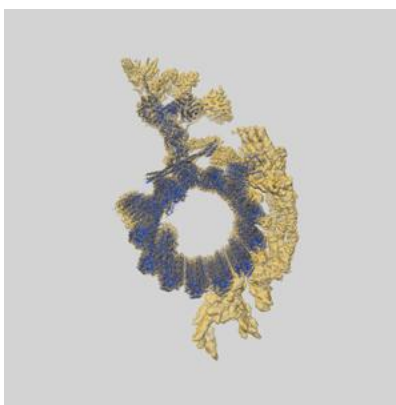
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-24191 and PDB model 7N61. Per-residue inclusion information can be found in section [3](#) on page [24](#).

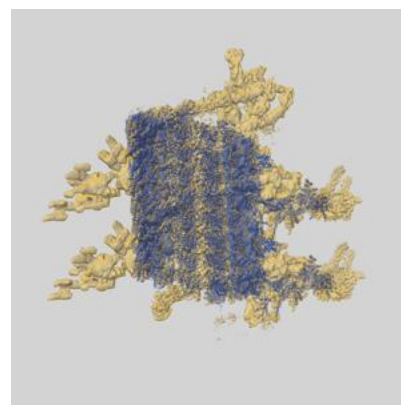
9.1 Map-model overlay [i](#)



X



Y



Z

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](#)

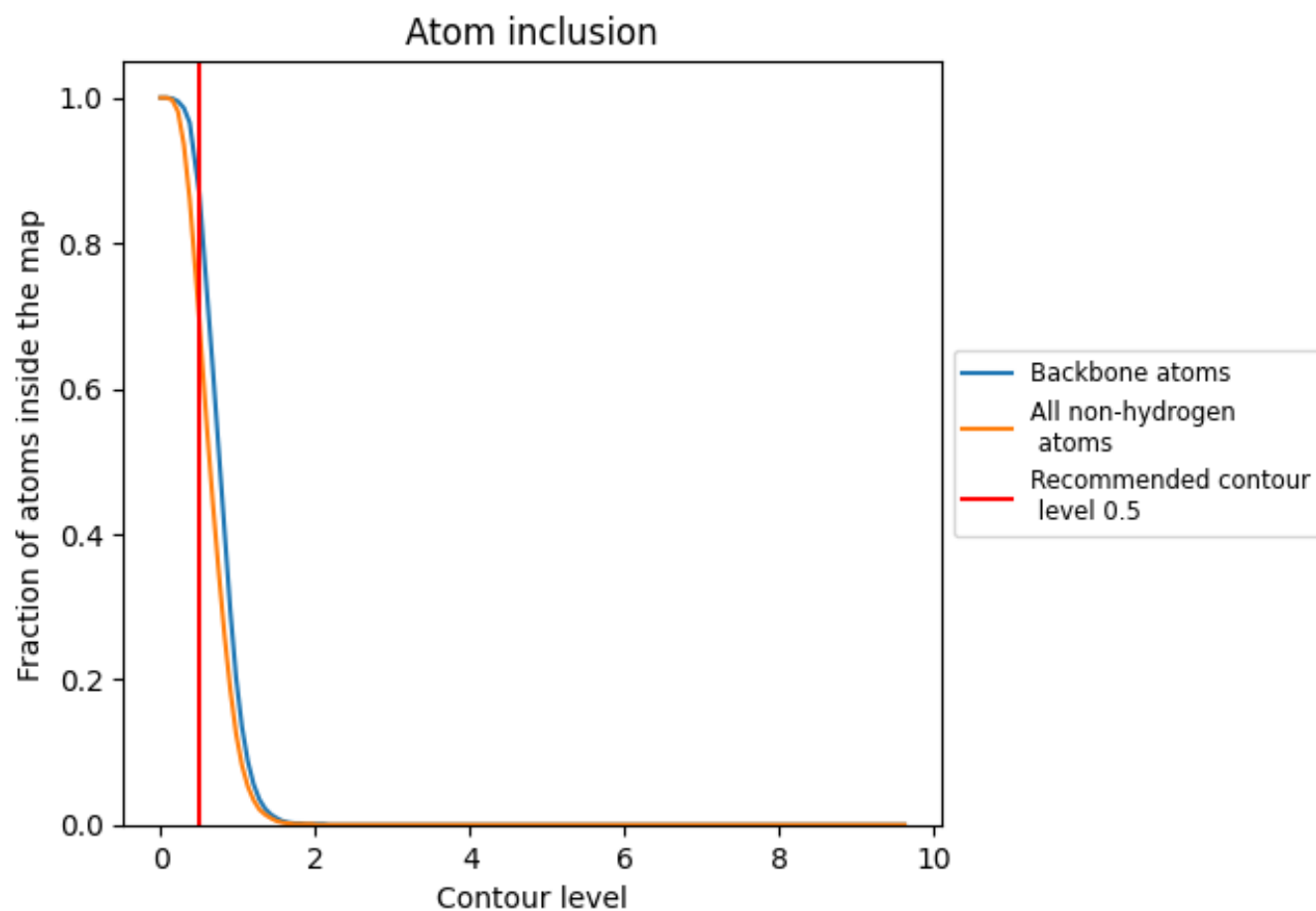


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 Atom inclusion mapped to coordinate model [i](#)

This section was not generated.

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	 0.6950	 0.4050
0A	 0.5700	 0.3440
0B	 0.6230	 0.3750
0C	 0.5950	 0.3680
0D	 0.4350	 0.3010
0E	 0.6710	 0.4680
0F	 0.7080	 0.4710
0G	 0.4120	 0.3520
0H	 0.6160	 0.4340
0I	 0.7720	 0.3700
0J	 0.7870	 0.3700
0K	 0.5770	 0.3620
0L	 0.3180	 0.2630
0M	 0.5730	 0.4280
0N	 0.4340	 0.3900
0O	 0.4650	 0.3740
0P	 0.6640	 0.4190
0Q	 0.6920	 0.4490
0S	 0.6390	 0.4290
0T	 0.6710	 0.4930
0U	 0.5750	 0.4690
0V	 0.6030	 0.4890
0W	 0.8360	 0.4680
0X	 0.5370	 0.4480
0Y	 0.4750	 0.4020
0Z	 0.5290	 0.4490
1A	 0.4610	 0.4040
1B	 0.7520	 0.3620
1C	 0.6740	 0.3370
1D	 0.7460	 0.2730
1E	 0.7550	 0.2830
1F	 0.7520	 0.2980
1G	 0.7550	 0.3060
1H	 0.7430	 0.4800
1L	 0.9580	 0.4980



Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
1M	 0.9600	 0.4900
1a	 0.7160	 0.4460
1b	 0.5890	 0.3780
1c	 0.7430	 0.4320
1d	 0.7750	 0.4650
1e	 0.8190	 0.4800
1f	 0.8030	 0.4700
1g	 0.8120	 0.4690
1h	 0.7790	 0.4610
2a	 0.6370	 0.4260
2b	 0.5930	 0.3910
2c	 0.7010	 0.4230
2d	 0.7290	 0.4460
2e	 0.7050	 0.4370
2f	 0.6960	 0.4390
2g	 0.7460	 0.4500
2h	 0.6950	 0.4330
3a	 0.6250	 0.4080
3b	 0.6710	 0.4280
3c	 0.7430	 0.4390
3d	 0.7500	 0.4490
3e	 0.7170	 0.4340
3f	 0.6620	 0.4190
3g	 0.7230	 0.4290
3h	 0.6850	 0.4220
4a	 0.5430	 0.3810
4b	 0.6330	 0.4040
4c	 0.6700	 0.4010
4d	 0.6920	 0.4170
4e	 0.6960	 0.4160
4f	 0.6750	 0.4090
4g	 0.7270	 0.4230
4h	 0.6780	 0.4000
5a	 0.5660	 0.3480
5b	 0.5980	 0.3720
5c	 0.6590	 0.3680
5d	 0.6490	 0.3590
5e	 0.6920	 0.3760
5f	 0.6580	 0.3600
5g	 0.6980	 0.3820
5h	 0.6850	 0.3680
6a	 0.4780	 0.2610

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
6b	 0.5190	 0.3180
6c	 0.5830	 0.3060
6d	 0.6120	 0.3220
6e	 0.6390	 0.3150
6f	 0.5940	 0.3040
6g	 0.6100	 0.3000
6h	 0.5990	 0.2920
7a	 0.6030	 0.3430
7b	 0.5940	 0.3630
7c	 0.7040	 0.3780
7d	 0.7040	 0.3810
7e	 0.7070	 0.3680
7f	 0.7060	 0.3670
7g	 0.7080	 0.3580
7h	 0.6850	 0.3530
8a	 0.6170	 0.3630
8b	 0.6490	 0.3800
8c	 0.7590	 0.3980
8d	 0.7880	 0.4150
8e	 0.7750	 0.4090
8f	 0.7590	 0.3890
8g	 0.7790	 0.3900
8h	 0.7380	 0.3870
9a	 0.7940	 0.4710
9b	 0.8250	 0.5090
9c	 0.8380	 0.5110
9d	 0.8180	 0.4800
9e	 0.7850	 0.4580
9f	 0.8260	 0.5090
9g	 0.8310	 0.5060
9h	 0.8120	 0.4790
Aa	 0.6880	 0.4040
Ab	 0.6060	 0.3800
Ac	 0.6910	 0.3760
Ad	 0.7370	 0.4000
Ae	 0.7450	 0.3950
Af	 0.7370	 0.4100
Ag	 0.7500	 0.4030
Ah	 0.7380	 0.4120
Ba	 0.5970	 0.3670
Bb	 0.6530	 0.3960
Bc	 0.8280	 0.4370

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
Bd	 0.8070	 0.4330
Be	 0.7300	 0.4110
Bf	 0.7520	 0.4220
Bg	 0.8240	 0.4410
Bh	 0.7980	 0.4220
Ca	 0.6550	 0.4240
Cb	 0.6950	 0.4330
Cc	 0.7850	 0.4510
Cd	 0.7930	 0.4650
Ce	 0.8140	 0.4710
Cf	 0.7770	 0.4600
Cg	 0.7700	 0.4540
Ch	 0.7640	 0.4510
Da	 0.6700	 0.4300
Db	 0.7180	 0.4480
Dc	 0.7890	 0.4780
Dd	 0.8060	 0.4770
De	 0.8170	 0.4830
Df	 0.7750	 0.4630
Dg	 0.7590	 0.4680
Dh	 0.7190	 0.4500