



Full wwPDB EM Validation Report ⓘ

Mar 27, 2026 – 04:53 AM UTC

PDB ID : 9NW3 / pdb_00009nw3
EMDB ID : EMD-49872
Title : Ciliary tip central pair
Authors : Legal, T.L.; Bui, K.H.
Deposited on : 2025-03-21
Resolution : 3.70 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:

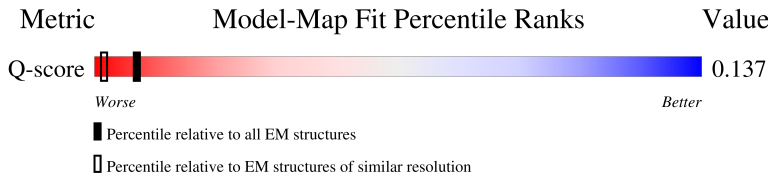
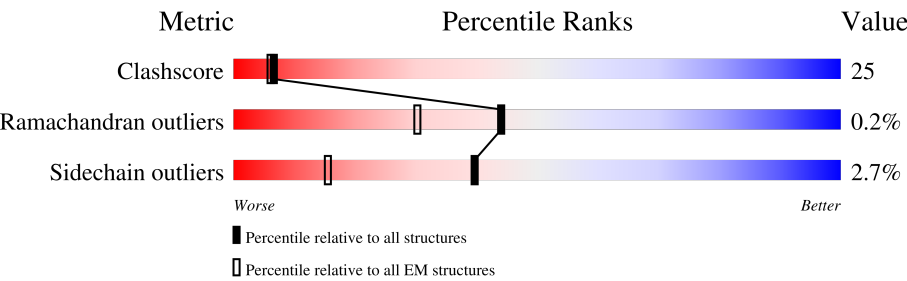
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data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

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.70 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	11569 (3.20 - 4.20)

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	AA	449	21% 73% 23% .
1	AC	449	22% 71% 25% .
1	AE	449	25% 70% 26% .
1	BA	449	15% 72% 24% .

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	BC	449	
1	BE	449	
1	CA	449	
1	CC	449	
1	CE	449	
1	DA	449	
1	DC	449	
1	DE	449	
1	EA	449	
1	EC	449	
1	EE	449	
1	FA	449	
1	FC	449	
1	FE	449	
1	GA	449	
1	GC	449	
1	GE	449	
1	HA	449	
1	HC	449	
1	HE	449	
1	IA	449	
1	IC	449	
1	IE	449	
1	JA	449	
1	JC	449	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	JE	449	55% 69% 27% .
1	KA	449	56% 71% 25% .
1	KC	449	56% 68% 28% .
1	KE	449	57% 69% 27% .
1	LA	449	47% 70% 25% .
1	LC	449	46% 69% 27% .
1	LE	449	46% 69% 27% .
1	MA	449	33% 73% 23% .
1	MC	449	35% 69% 26% .
1	ME	449	36% 70% 26% .
2	AB	443	29% 71% 26% .
2	AD	443	28% 66% 31% .
2	AF	443	28% 69% 28% .
2	BB	443	11% 70% 26% .
2	BD	443	11% 70% 26% .
2	BF	443	11% 74% 23% .
2	CB	443	10% 70% 26% .
2	CD	443	12% 70% 26% .
2	CF	443	12% 73% 24% .
2	DB	443	19% 70% 27% .
2	DD	443	17% 69% 28% .
2	DF	443	15% 72% 24% .
2	EB	443	33% 69% 27% .
2	ED	443	28% 69% 27% .
2	EF	443	25% 72% 25% .

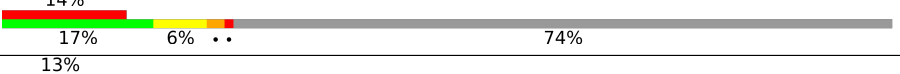
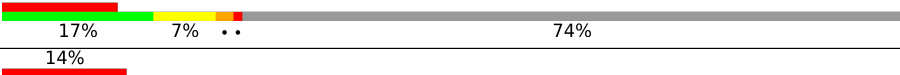
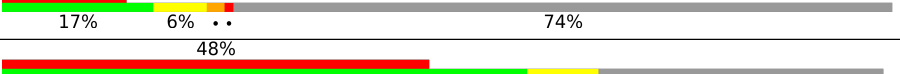
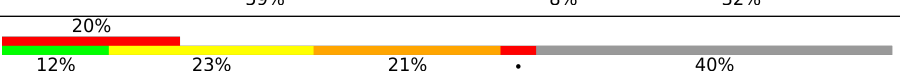
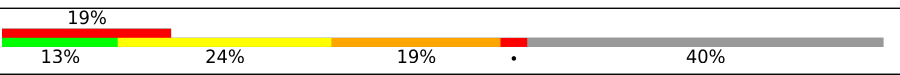
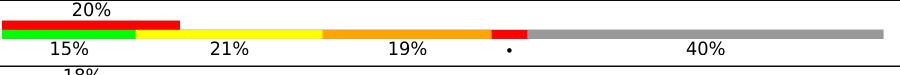
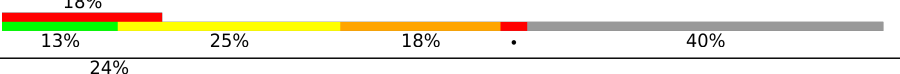
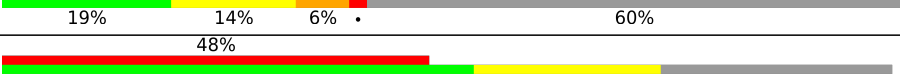
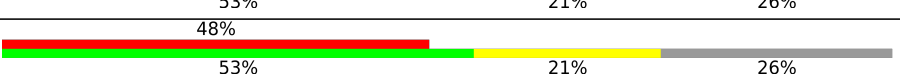
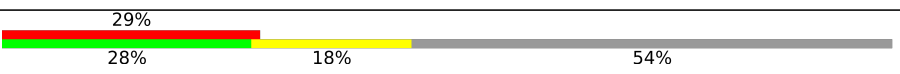
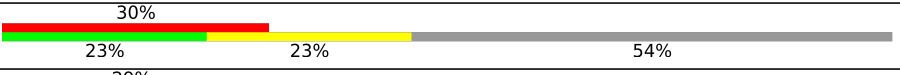
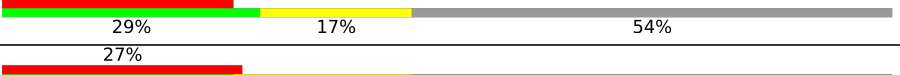
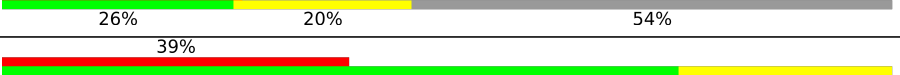
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
2	FB	443	
2	FD	443	
2	FF	443	
2	GB	443	
2	GD	443	
2	GF	443	
2	HB	443	
2	HD	443	
2	HF	443	
2	IB	443	
2	ID	443	
2	IF	443	
2	JB	443	
2	JD	443	
2	JF	443	
2	KB	443	
2	KD	443	
2	KF	443	
2	LB	443	
2	LD	443	
2	LF	443	
2	MB	443	
2	MD	443	
2	MF	443	
3	1A	213	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	1B	213	
3	1C	213	
4	2A	742	
4	2B	742	
4	2C	742	
5	3A	495	
5	3B	495	
5	3C	495	
6	4A	317	
6	4B	317	
6	4C	317	
6	4D	317	
7	5A	1754	
7	5B	1754	
7	5C	1754	
8	6A	346	
8	6B	346	
8	6C	346	
9	7A	101	
9	7B	101	
9	7C	101	
9	7D	101	
9	7E	101	
9	7F	101	
10	8A	38	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
10	8B	38	50% 82% 18%
10	8C	38	42% 84% 16%
10	8D	38	34% 76% 24%
10	8E	38	18% 76% 24%
10	8F	38	26% 82% 18%
10	8G	38	39% 79% 21%
10	8H	38	37% 79% 21%
10	8I	38	29% 82% 18%
10	8J	38	26% 76% 24%
10	8K	38	37% 76% 24%
10	8L	38	34% 79% 21%
10	8M	38	34% 79% 21%
10	8N	38	29% 79% 21%
10	8O	38	34% 82% 18%
10	8P	38	32% 76% 24%
10	8Q	38	24% 82% 18%
10	8R	38	26% 82% 18%
10	8S	38	58% 71% 29%
10	8T	38	53% 71% 29%
10	8U	38	47% 71% 29%
10	8V	38	63% 68% 32%
10	8W	38	68% 74% 26%
10	8X	38	71% 76% 24%
10	8Y	38	84% 74% 26%
10	8Z	38	63% 76% 24%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
10	9A	38	58% 76% 24%

2 Entry composition

There are 13 unique types of molecules in this entry. The entry contains 318666 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Tubulin alpha chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	AA	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	AC	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	AE	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	BA	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	BC	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	BE	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	CA	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	CC	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	CE	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	DA	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	DC	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	DE	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	EA	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	EC	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	EE	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	FA	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
1	FC	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	FE	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	GA	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	GC	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	GE	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	HA	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	HC	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	HE	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	IA	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	IC	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	IE	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	JA	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	JC	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	JE	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	KA	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	KC	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	KE	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	LA	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	LC	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	LE	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	MA	430	Total 3350	C 2122	N 569	O 637	S 22	0	0
1	MC	430	Total 3350	C 2122	N 569	O 637	S 22	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	ME	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		

- Molecule 2 is a protein called Tubulin beta chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	AB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	AD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	AF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	BB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	BD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	BF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	CB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	CD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	CF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	DB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	DD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	DF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	EB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	ED	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	EF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	FB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	FD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	FF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
2	GB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	GD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	GF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	HB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	HD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	HF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	IB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	ID	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	IF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	JB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	JD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	JF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	KB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	KD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	KF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	LB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	LD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	LF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	MB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	MD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
2	MF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

- Molecule 3 is a protein called Sperm flagellar protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	1A	140	Total	C	N	O	S	0	0
			1141	717	200	215	9		
3	1B	140	Total	C	N	O	S	0	0
			1141	717	200	215	9		
3	1C	140	Total	C	N	O	S	0	0
			1141	717	200	215	9		

- Molecule 4 is a protein called TLP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	2A	190	Total	C	N	O	S	0	0
			1615	1046	279	283	7		
4	2B	190	Total	C	N	O	S	0	0
			1615	1046	279	283	7		
4	2C	190	Total	C	N	O	S	0	0
			1615	1046	279	283	7		

- Molecule 5 is a protein called C2 domain protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	3A	335	Total	C	N	O	S	0	0
			2752	1754	470	518	10		
5	3B	335	Total	C	N	O	S	0	0
			2752	1754	470	518	10		
5	3C	335	Total	C	N	O	S	0	0
			2752	1754	470	518	10		

- Molecule 6 is a protein called CFAP213.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	4A	189	Total	C	N	O	S	0	0
			1587	981	298	303	5		
6	4B	189	Total	C	N	O	S	0	0
			1587	981	298	303	5		
6	4C	189	Total	C	N	O	S	0	0
			1587	981	298	303	5		
6	4D	189	Total	C	N	O	S	0	0
			1587	981	298	303	5		

- Molecule 7 is a protein called TLP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	5A	705	Total	C	N	O	S	0	0
			5953	3778	1021	1141	13		
7	5B	705	Total	C	N	O	S	0	0
			5953	3778	1021	1141	13		
7	5C	705	Total	C	N	O	S	0	0
			5953	3778	1021	1141	13		

- Molecule 8 is a protein called Cation channel family protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	6A	256	Total	C	N	O	S	0	0
			2077	1352	338	380	7		
8	6B	256	Total	C	N	O	S	0	0
			2077	1352	338	380	7		
8	6C	256	Total	C	N	O	S	0	0
			2077	1352	338	380	7		

- Molecule 9 is a protein called Dpy-30 motif protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
9	7A	46	Total	C	N	O	0	0
			383	247	66	70		
9	7B	46	Total	C	N	O	0	0
			383	247	66	70		
9	7C	46	Total	C	N	O	0	0
			383	247	66	70		
9	7D	46	Total	C	N	O	0	0
			383	247	66	70		
9	7E	46	Total	C	N	O	0	0
			383	247	66	70		
9	7F	46	Total	C	N	O	0	0
			383	247	66	70		

- Molecule 10 is a protein called Unknown.

Mol	Chain	Residues	Atoms				AltConf	Trace
10	8A	38	Total	C	N	O	0	0
			189	114	38	37		
10	8B	38	Total	C	N	O	0	0
			189	114	38	37		
10	8C	38	Total	C	N	O	0	0
			189	114	38	37		

Continued on next page...

Continued from previous page...

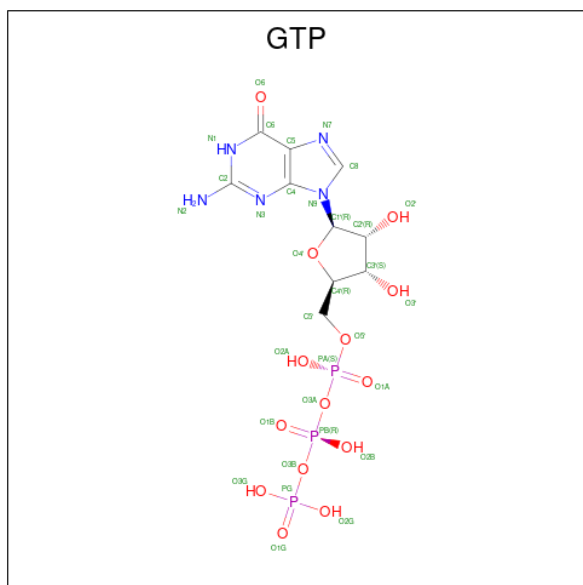
Mol	Chain	Residues	Atoms				AltConf	Trace
10	8D	38	Total	C	N	O	0	0
			189	114	38	37		
10	8E	38	Total	C	N	O	0	0
			189	114	38	37		
10	8F	38	Total	C	N	O	0	0
			189	114	38	37		
10	8G	38	Total	C	N	O	0	0
			189	114	38	37		
10	8H	38	Total	C	N	O	0	0
			189	114	38	37		
10	8I	38	Total	C	N	O	0	0
			189	114	38	37		
10	8J	38	Total	C	N	O	0	0
			189	114	38	37		
10	8K	38	Total	C	N	O	0	0
			189	114	38	37		
10	8L	38	Total	C	N	O	0	0
			189	114	38	37		
10	8M	38	Total	C	N	O	0	0
			189	114	38	37		
10	8N	38	Total	C	N	O	0	0
			189	114	38	37		
10	8O	38	Total	C	N	O	0	0
			189	114	38	37		
10	8P	38	Total	C	N	O	0	0
			189	114	38	37		
10	8Q	38	Total	C	N	O	0	0
			189	114	38	37		
10	8R	38	Total	C	N	O	0	0
			189	114	38	37		
10	8S	38	Total	C	N	O	0	0
			189	114	38	37		
10	8T	38	Total	C	N	O	0	0
			189	114	38	37		
10	8U	38	Total	C	N	O	0	0
			189	114	38	37		
10	8V	38	Total	C	N	O	0	0
			189	114	38	37		
10	8W	38	Total	C	N	O	0	0
			189	114	38	37		
10	8X	38	Total	C	N	O	0	0
			189	114	38	37		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms				AltConf	Trace
10	8Y	38	Total	C	N	O	0	0
			189	114	38	37		
10	8Z	38	Total	C	N	O	0	0
			189	114	38	37		
10	9A	38	Total	C	N	O	0	0
			189	114	38	37		

- Molecule 11 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf
11	CE	1	Total 32	C 10	N 5	O 14	P 3	0
11	DA	1	Total 32	C 10	N 5	O 14	P 3	0
11	DC	1	Total 32	C 10	N 5	O 14	P 3	0
11	DE	1	Total 32	C 10	N 5	O 14	P 3	0
11	EA	1	Total 32	C 10	N 5	O 14	P 3	0
11	EC	1	Total 32	C 10	N 5	O 14	P 3	0
11	EE	1	Total 32	C 10	N 5	O 14	P 3	0
11	FA	1	Total 32	C 10	N 5	O 14	P 3	0
11	FC	1	Total 32	C 10	N 5	O 14	P 3	0
11	FE	1	Total 32	C 10	N 5	O 14	P 3	0
11	GA	1	Total 32	C 10	N 5	O 14	P 3	0
11	GC	1	Total 32	C 10	N 5	O 14	P 3	0
11	GE	1	Total 32	C 10	N 5	O 14	P 3	0
11	HA	1	Total 32	C 10	N 5	O 14	P 3	0
11	HC	1	Total 32	C 10	N 5	O 14	P 3	0
11	HE	1	Total 32	C 10	N 5	O 14	P 3	0
11	IA	1	Total 32	C 10	N 5	O 14	P 3	0
11	IC	1	Total 32	C 10	N 5	O 14	P 3	0
11	IE	1	Total 32	C 10	N 5	O 14	P 3	0
11	JA	1	Total 32	C 10	N 5	O 14	P 3	0
11	JC	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
11	JE	1	Total	C	N	O	P	0
			32	10	5	14	3	
11	KA	1	Total	C	N	O	P	0
			32	10	5	14	3	
11	KC	1	Total	C	N	O	P	0
			32	10	5	14	3	
11	KE	1	Total	C	N	O	P	0
			32	10	5	14	3	
11	LA	1	Total	C	N	O	P	0
			32	10	5	14	3	
11	LC	1	Total	C	N	O	P	0
			32	10	5	14	3	
11	LE	1	Total	C	N	O	P	0
			32	10	5	14	3	
11	MA	1	Total	C	N	O	P	0
			32	10	5	14	3	
11	MC	1	Total	C	N	O	P	0
			32	10	5	14	3	
11	ME	1	Total	C	N	O	P	0
			32	10	5	14	3	

- Molecule 12 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
12	AA	1	Total	Mg	0
			1	1	
12	AC	1	Total	Mg	0
			1	1	
12	AE	1	Total	Mg	0
			1	1	
12	BA	1	Total	Mg	0
			1	1	
12	BC	1	Total	Mg	0
			1	1	
12	BE	1	Total	Mg	0
			1	1	
12	CA	1	Total	Mg	0
			1	1	
12	CC	1	Total	Mg	0
			1	1	
12	CE	1	Total	Mg	0
			1	1	

Continued on next page...

Continued from previous page...

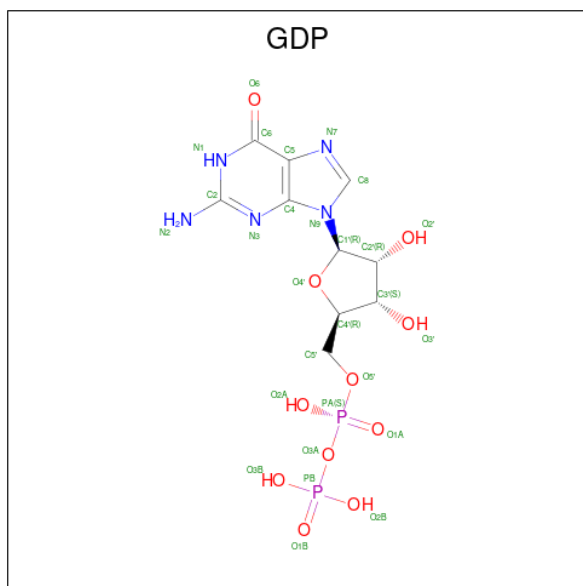
Mol	Chain	Residues	Atoms		AltConf
12	DA	1	Total 1	Mg 1	0
12	DC	1	Total 1	Mg 1	0
12	DE	1	Total 1	Mg 1	0
12	EA	1	Total 1	Mg 1	0
12	ED	1	Total 1	Mg 1	0
12	EE	1	Total 1	Mg 1	0
12	FB	1	Total 1	Mg 1	0
12	FD	1	Total 1	Mg 1	0
12	FE	1	Total 1	Mg 1	0
12	GA	1	Total 1	Mg 1	0
12	GC	1	Total 1	Mg 1	0
12	GE	1	Total 1	Mg 1	0
12	HA	1	Total 1	Mg 1	0
12	HC	1	Total 1	Mg 1	0
12	HE	1	Total 1	Mg 1	0
12	IA	1	Total 1	Mg 1	0
12	IC	1	Total 1	Mg 1	0
12	IE	1	Total 1	Mg 1	0
12	JA	1	Total 1	Mg 1	0
12	JC	1	Total 1	Mg 1	0
12	JE	1	Total 1	Mg 1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		AltConf
12	KA	1	Total	Mg	0
			1	1	
12	KC	1	Total	Mg	0
			1	1	
12	KE	1	Total	Mg	0
			1	1	
12	LA	1	Total	Mg	0
			1	1	
12	LC	1	Total	Mg	0
			1	1	
12	LE	1	Total	Mg	0
			1	1	
12	MB	1	Total	Mg	0
			1	1	
12	MD	1	Total	Mg	0
			1	1	
12	MF	1	Total	Mg	0
			1	1	

- Molecule 13 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$).



Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf
13	AF	1	Total 28	C 10	N 5	O 11	P 2	0
13	BB	1	Total 28	C 10	N 5	O 11	P 2	0
13	BD	1	Total 28	C 10	N 5	O 11	P 2	0
13	BF	1	Total 28	C 10	N 5	O 11	P 2	0
13	CB	1	Total 28	C 10	N 5	O 11	P 2	0
13	CD	1	Total 28	C 10	N 5	O 11	P 2	0
13	CF	1	Total 28	C 10	N 5	O 11	P 2	0
13	DB	1	Total 28	C 10	N 5	O 11	P 2	0
13	DD	1	Total 28	C 10	N 5	O 11	P 2	0
13	DF	1	Total 28	C 10	N 5	O 11	P 2	0
13	EB	1	Total 28	C 10	N 5	O 11	P 2	0
13	ED	1	Total 28	C 10	N 5	O 11	P 2	0
13	EF	1	Total 28	C 10	N 5	O 11	P 2	0
13	FB	1	Total 28	C 10	N 5	O 11	P 2	0
13	FD	1	Total 28	C 10	N 5	O 11	P 2	0
13	FF	1	Total 28	C 10	N 5	O 11	P 2	0
13	GB	1	Total 28	C 10	N 5	O 11	P 2	0
13	GD	1	Total 28	C 10	N 5	O 11	P 2	0
13	GF	1	Total 28	C 10	N 5	O 11	P 2	0
13	HB	1	Total 28	C 10	N 5	O 11	P 2	0
13	HD	1	Total 28	C 10	N 5	O 11	P 2	0

Continued on next page...

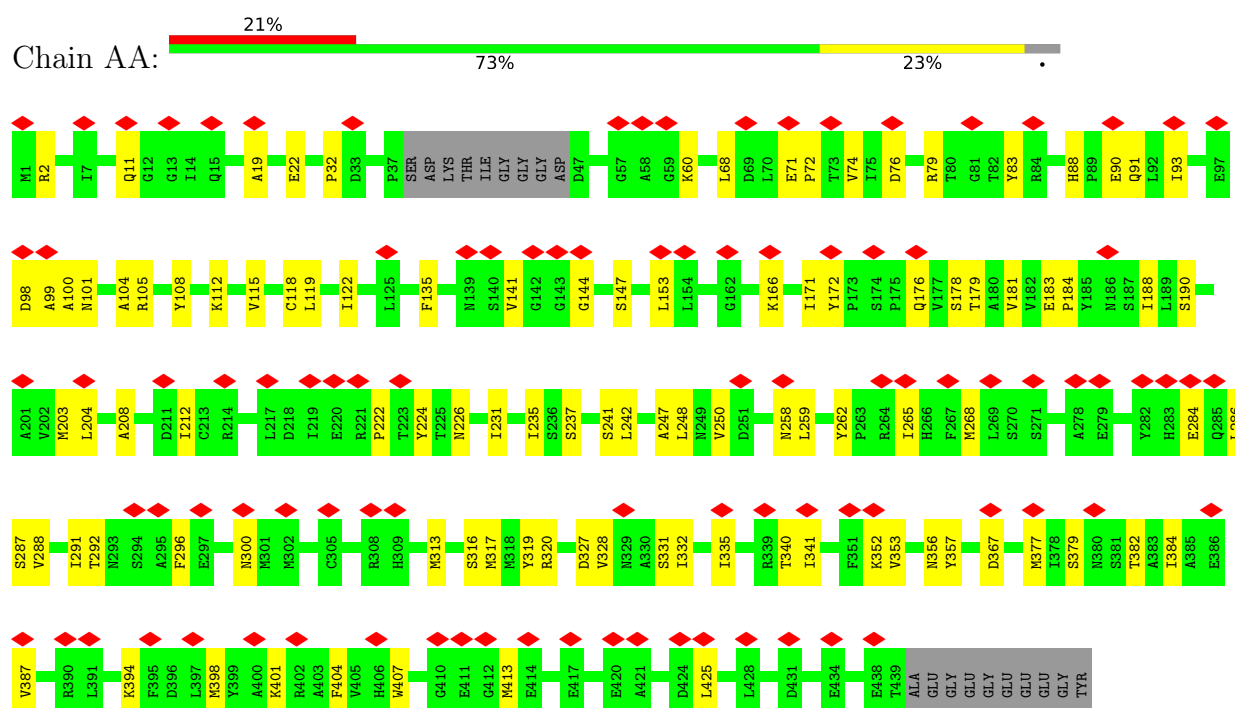
Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf
13	HF	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	IB	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	ID	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	IF	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	JB	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	JD	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	JF	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	KB	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	KD	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	KF	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	LB	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	LD	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	LF	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	MB	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	MD	1	Total	C	N	O	P	0
			28	10	5	11	2	
13	MF	1	Total	C	N	O	P	0
			28	10	5	11	2	

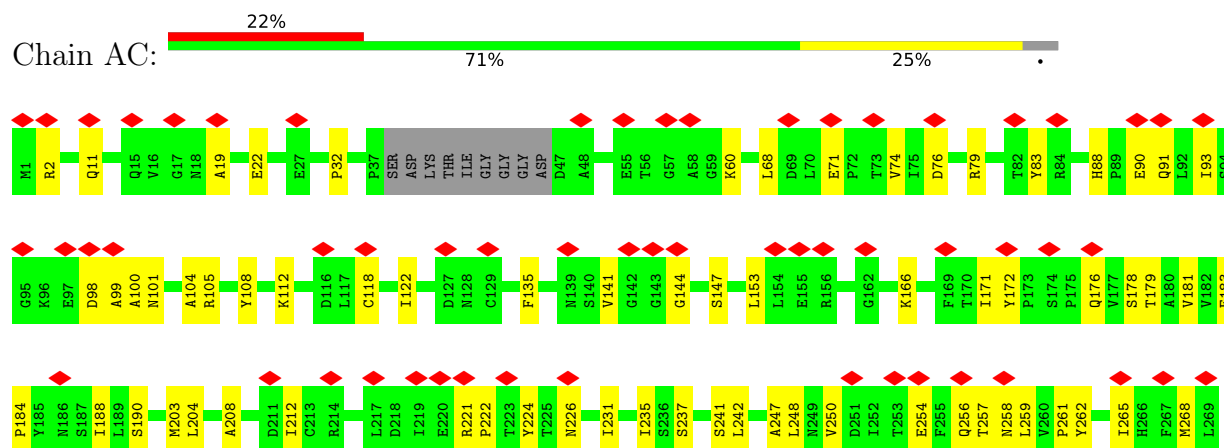
3 Residue-property plots

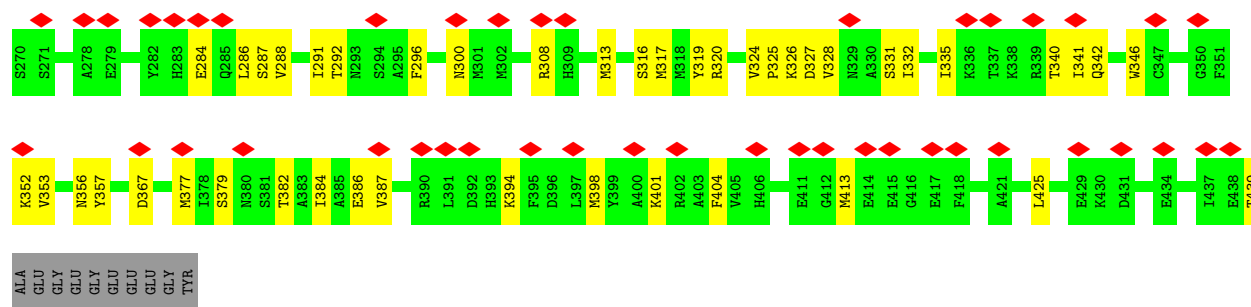
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: Tubulin alpha chain

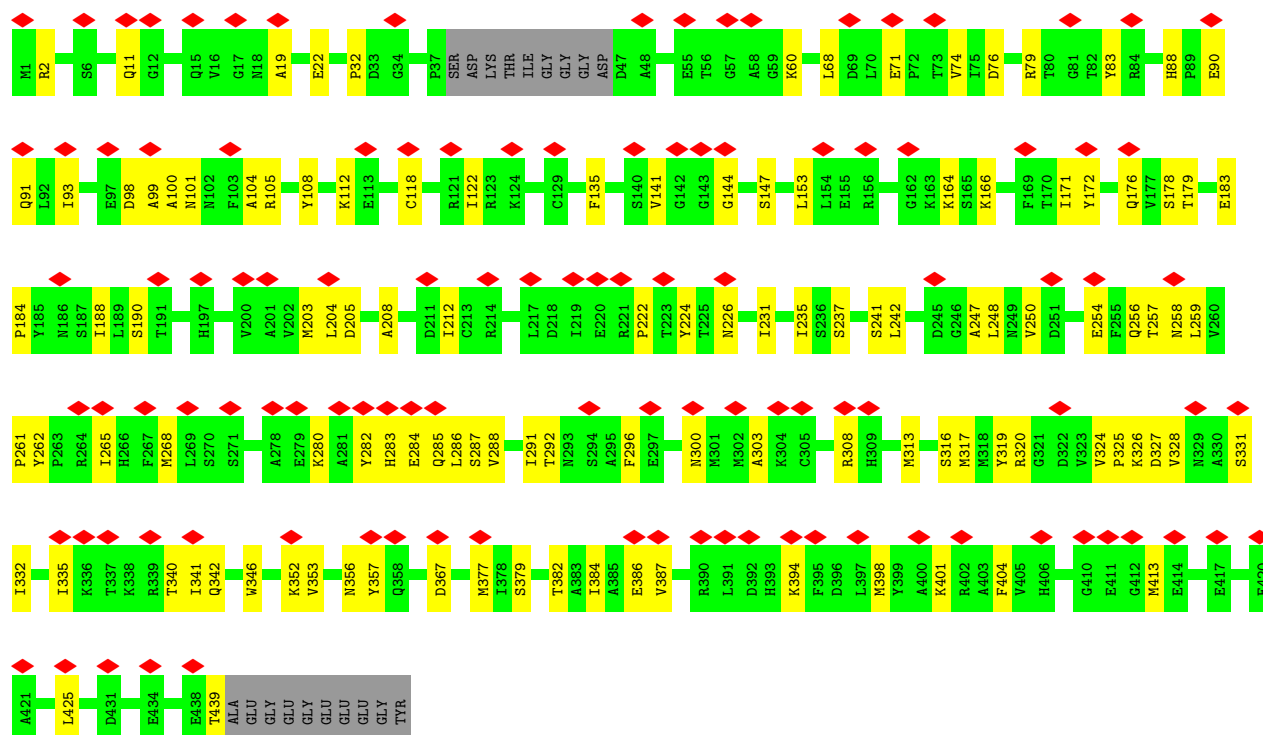
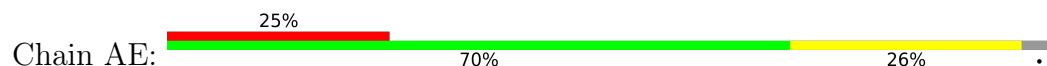


• Molecule 1: Tubulin alpha chain

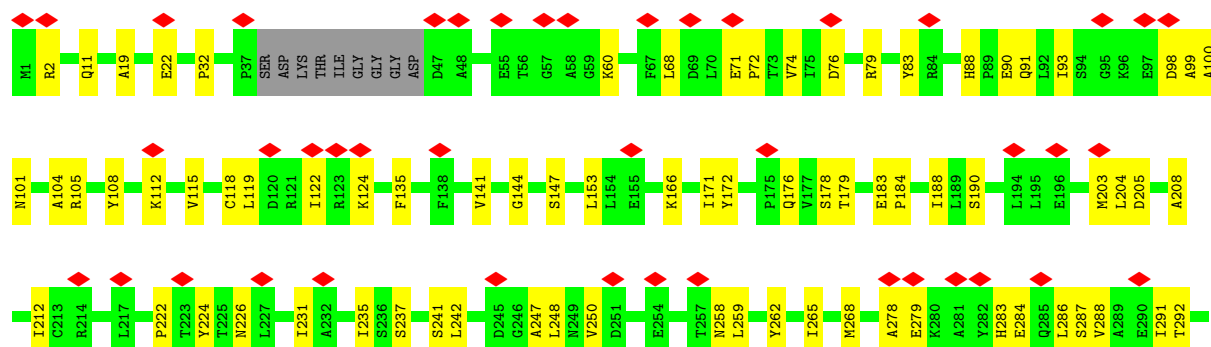
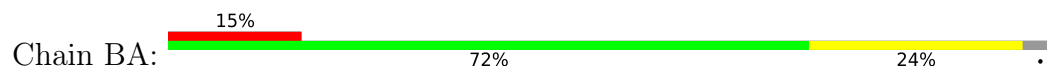


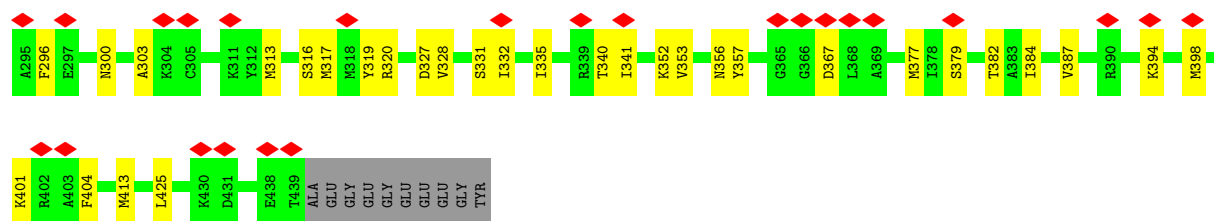


• Molecule 1: Tubulin alpha chain

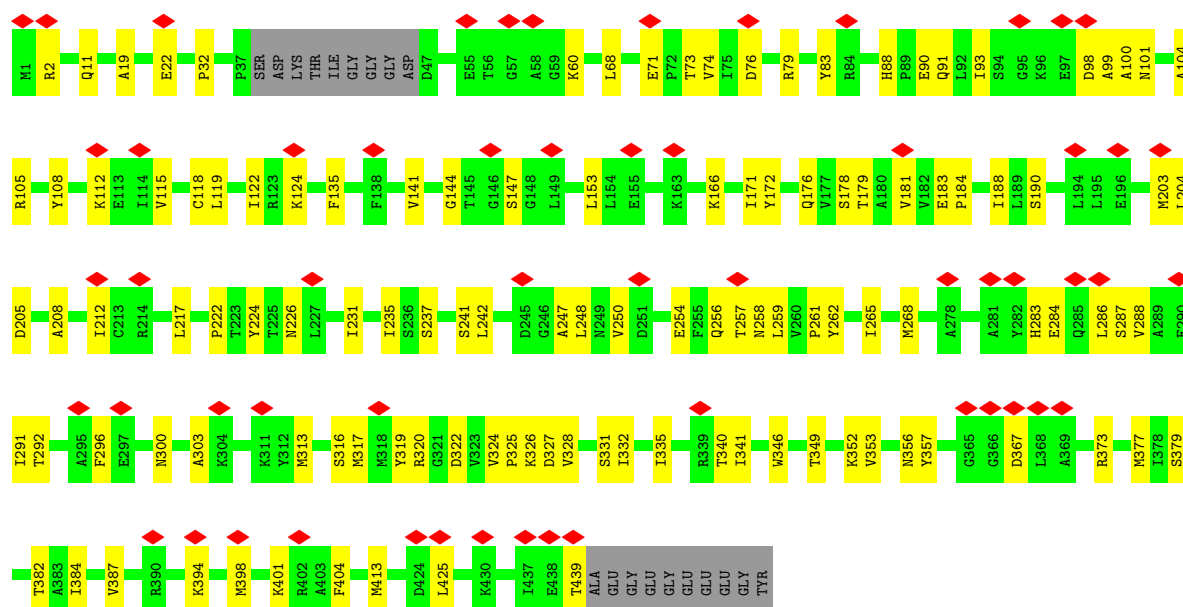
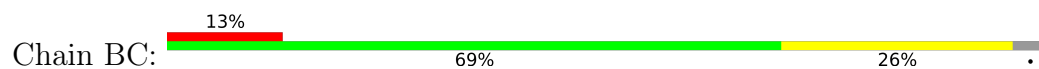


• Molecule 1: Tubulin alpha chain

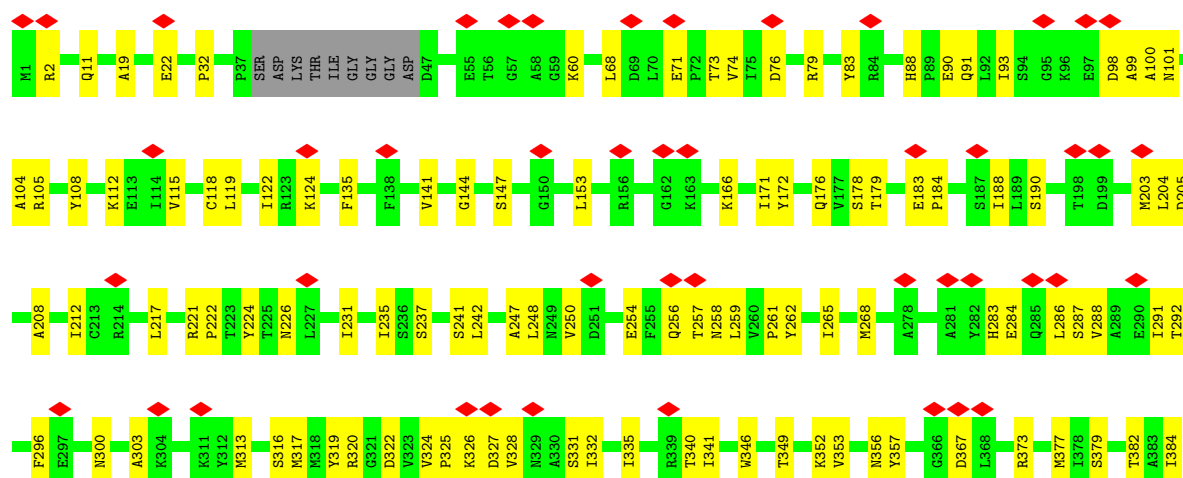
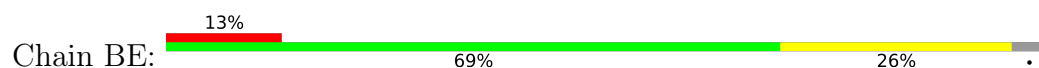


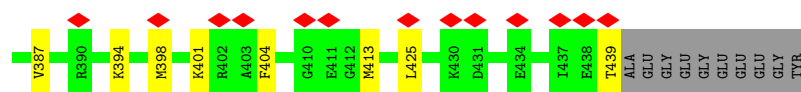


• Molecule 1: Tubulin alpha chain

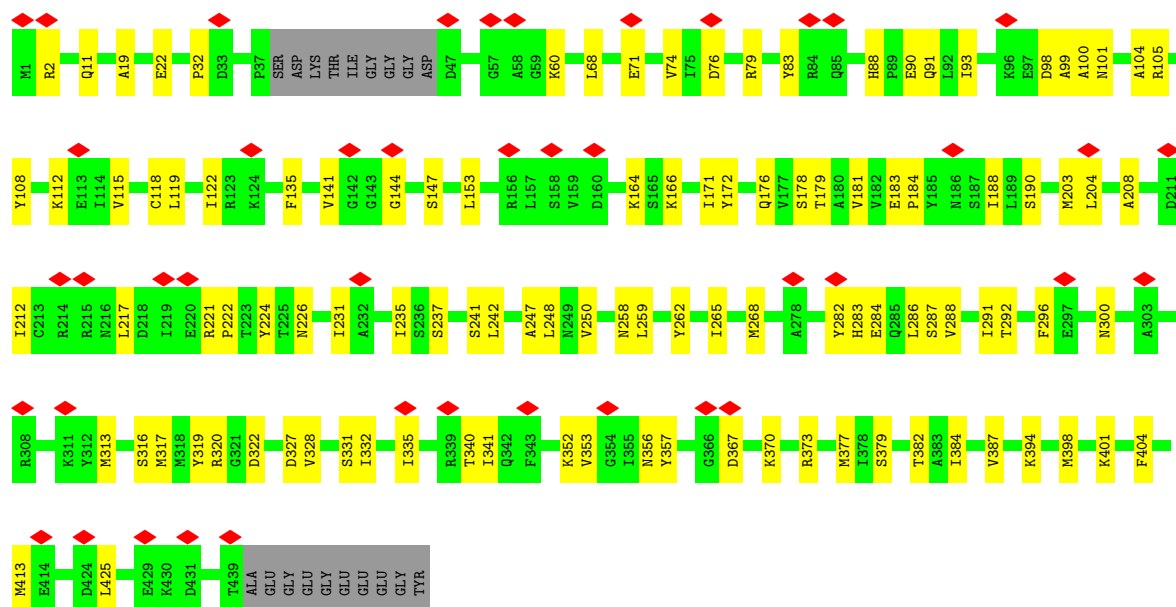
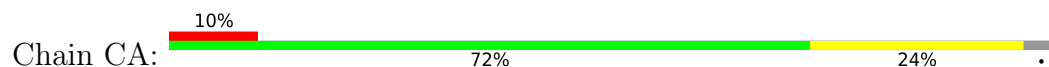


• Molecule 1: Tubulin alpha chain

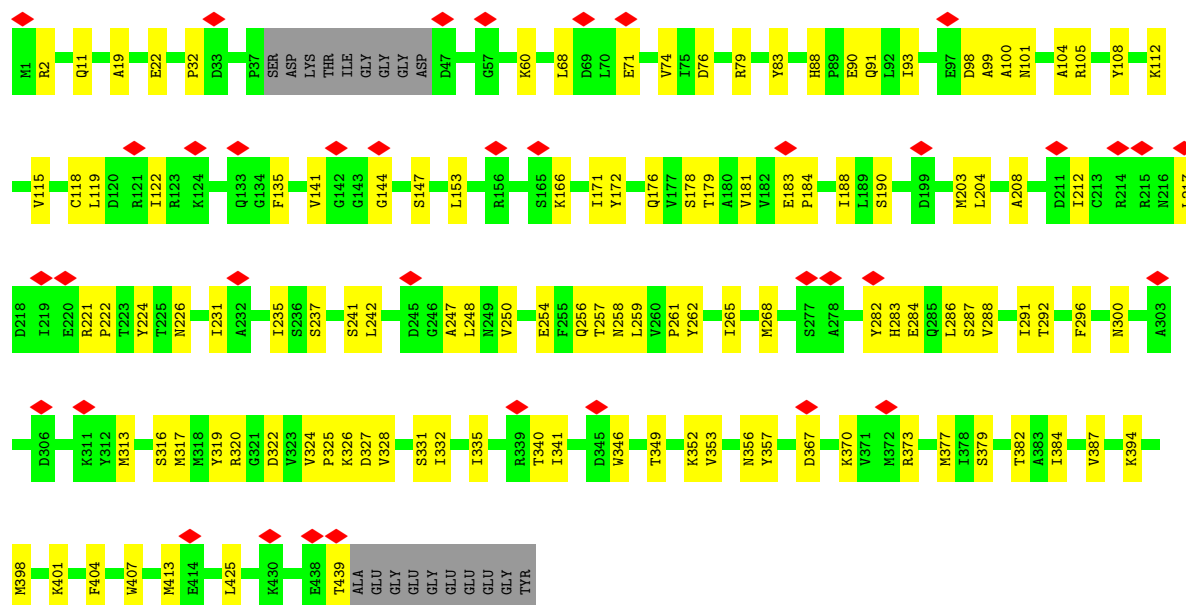
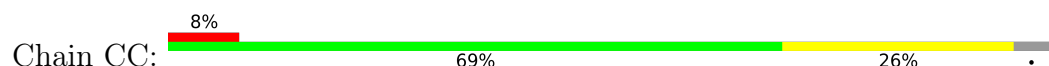




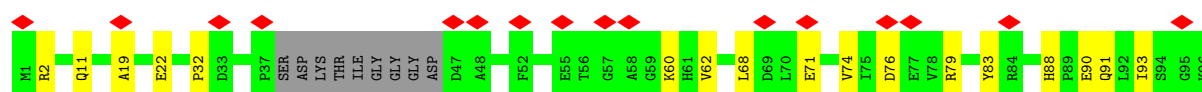
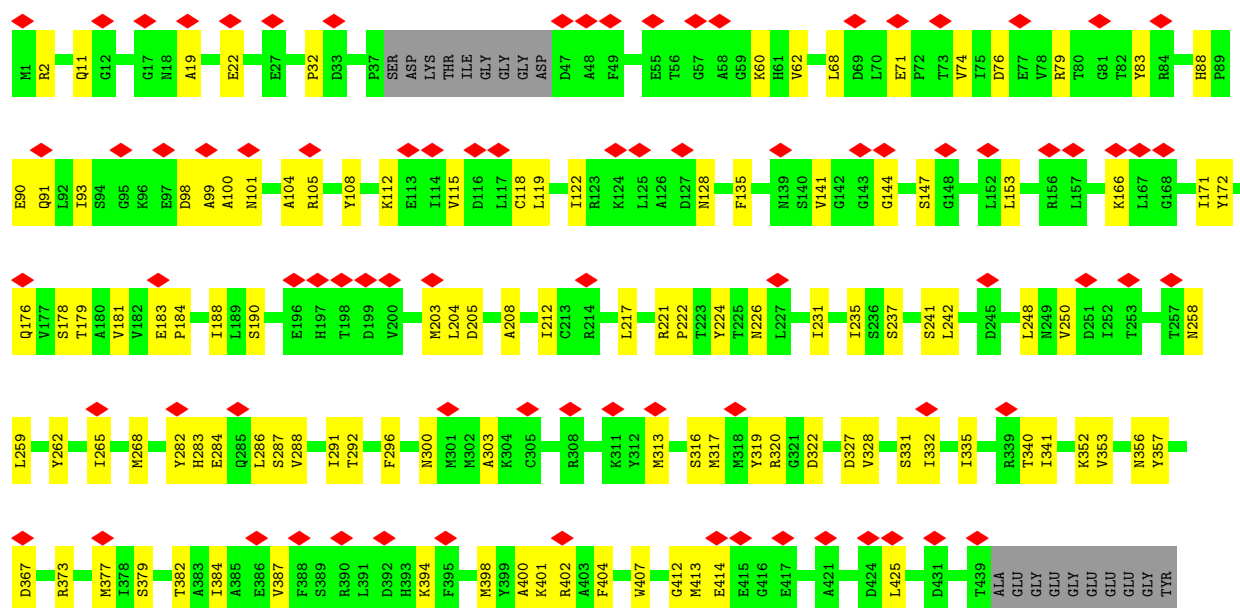
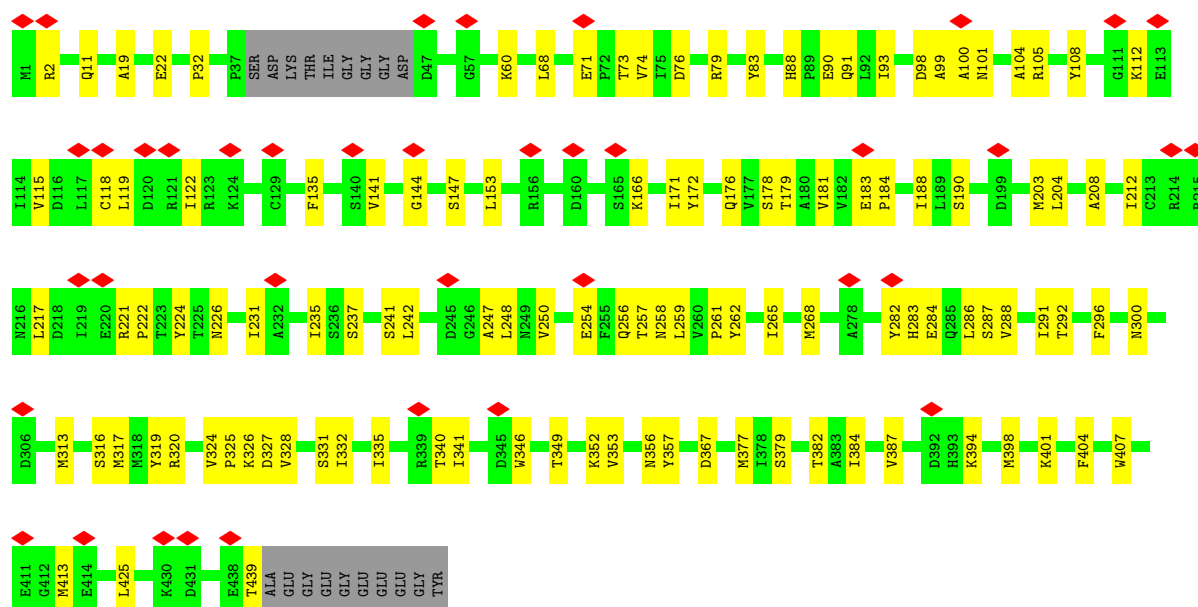
• Molecule 1: Tubulin alpha chain

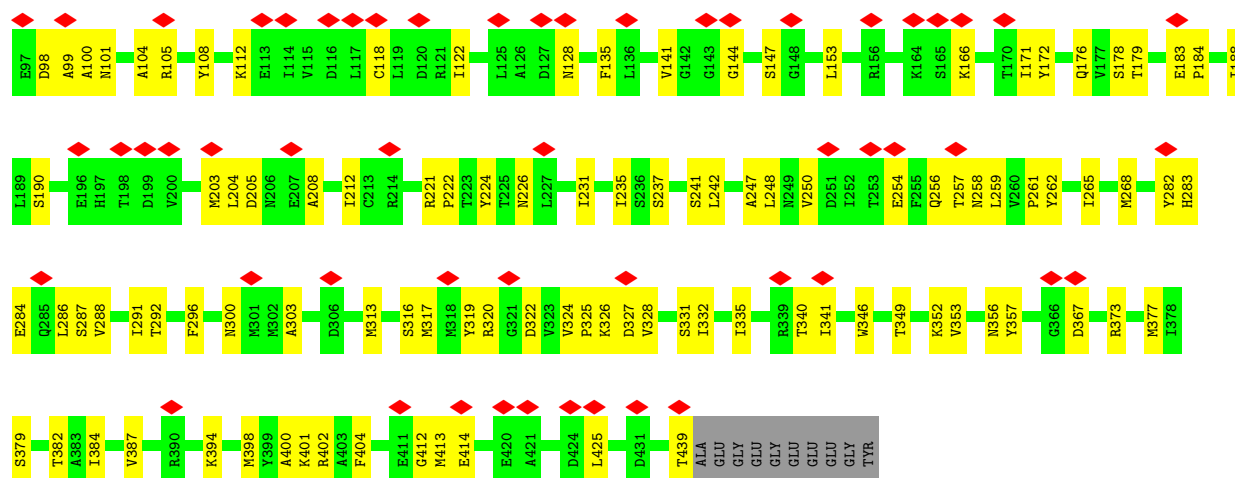


• Molecule 1: Tubulin alpha chain

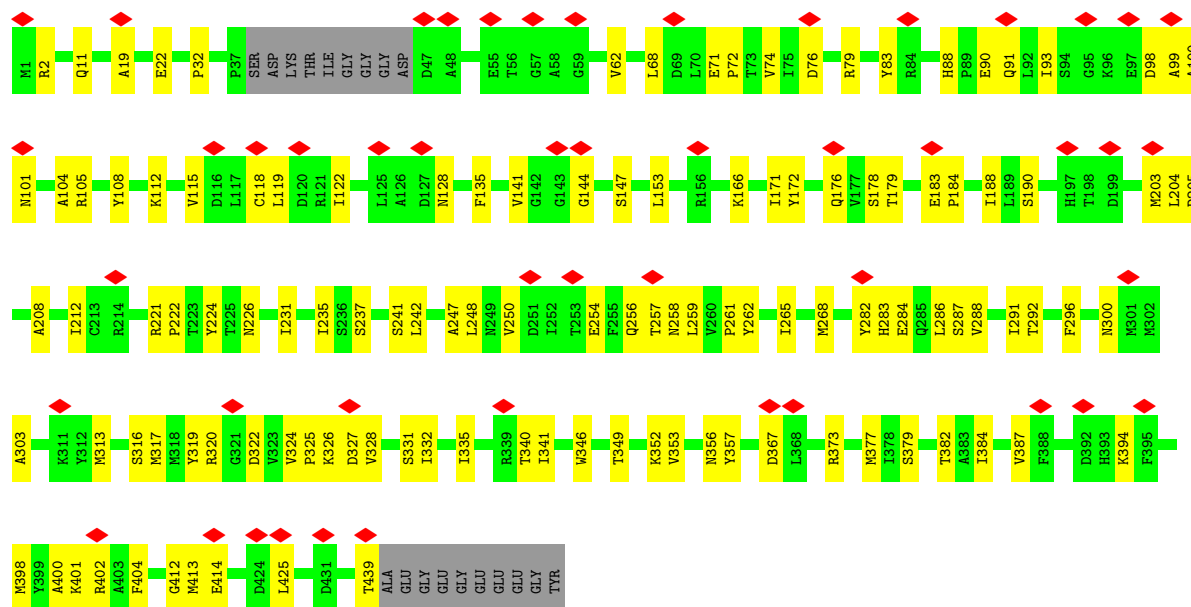


• Molecule 1: Tubulin alpha chain

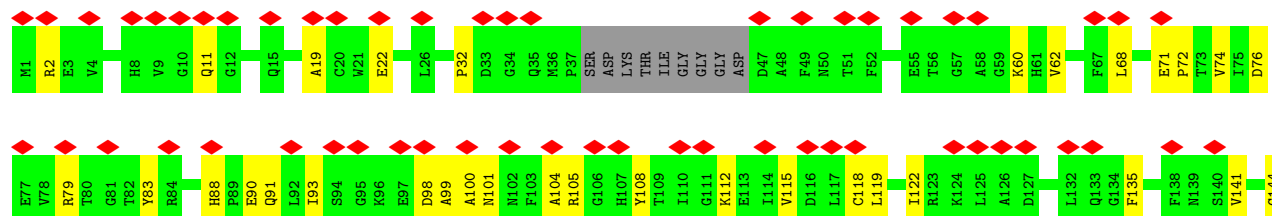
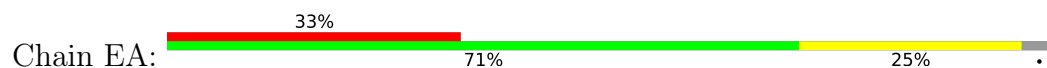


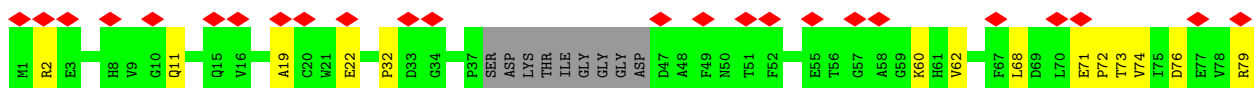


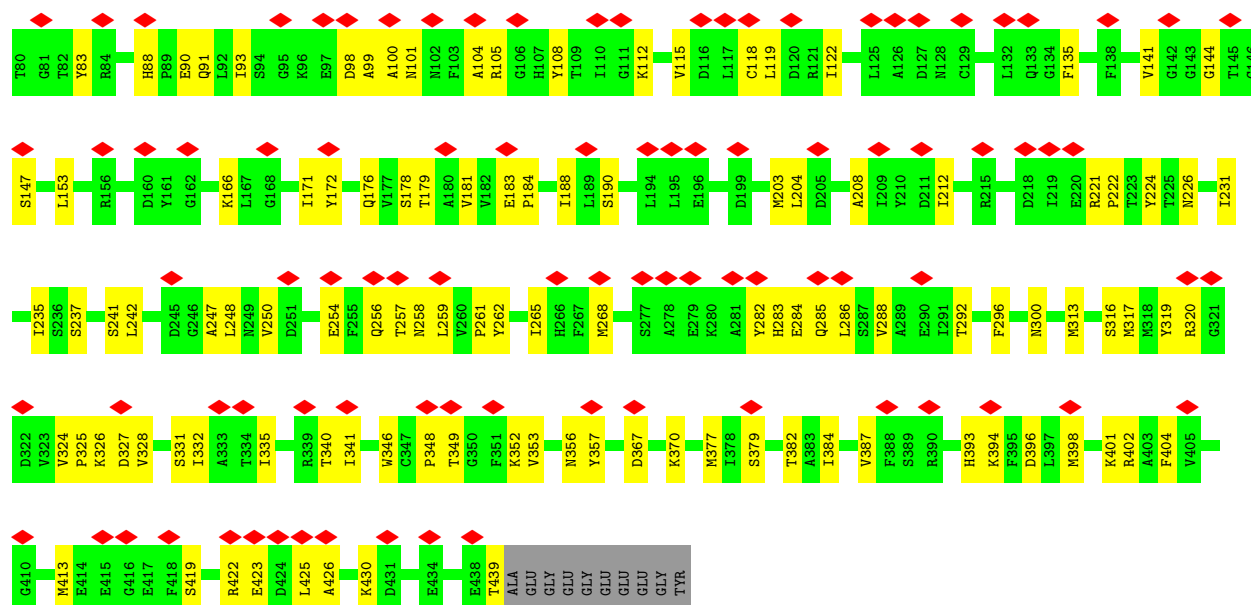
• Molecule 1: Tubulin alpha chain



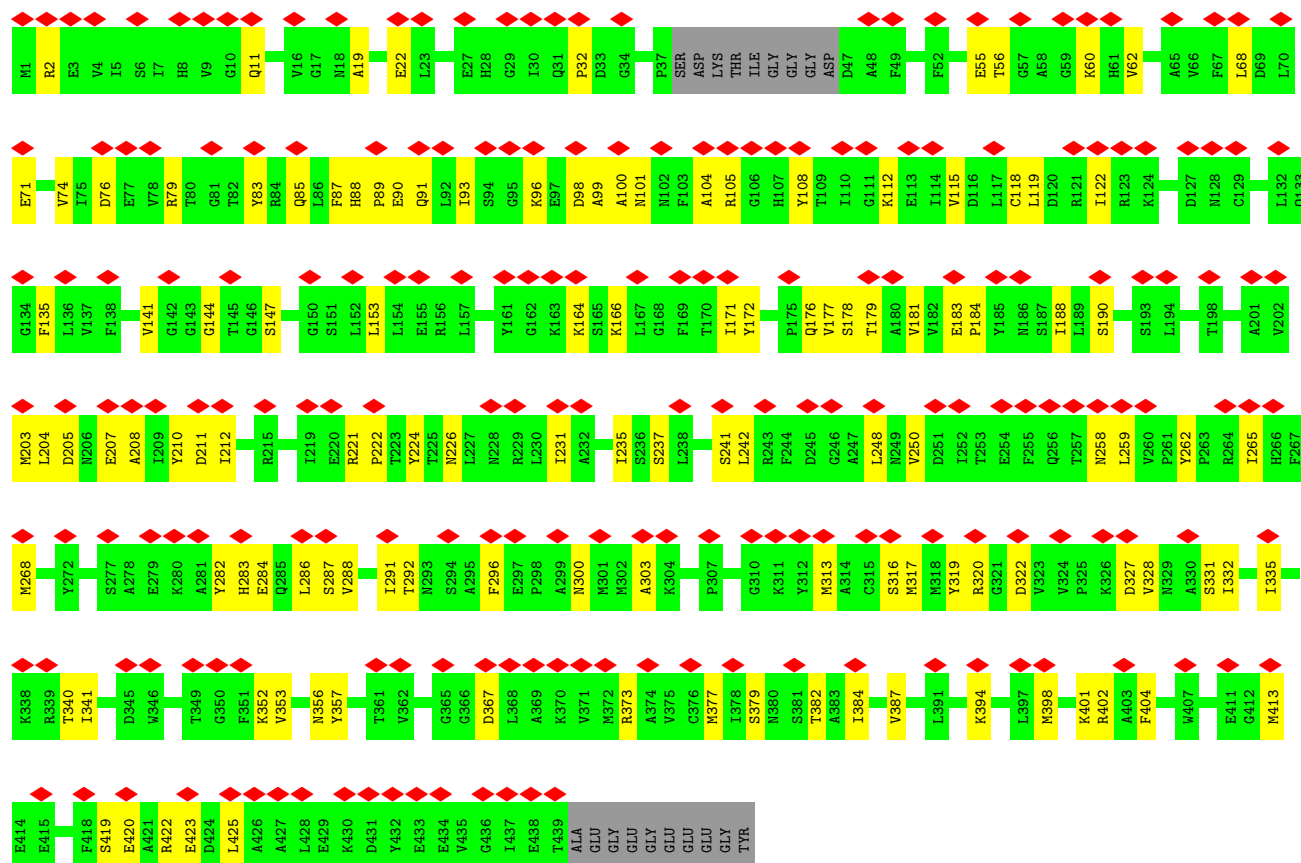
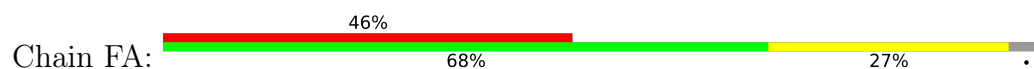
• Molecule 1: Tubulin alpha chain



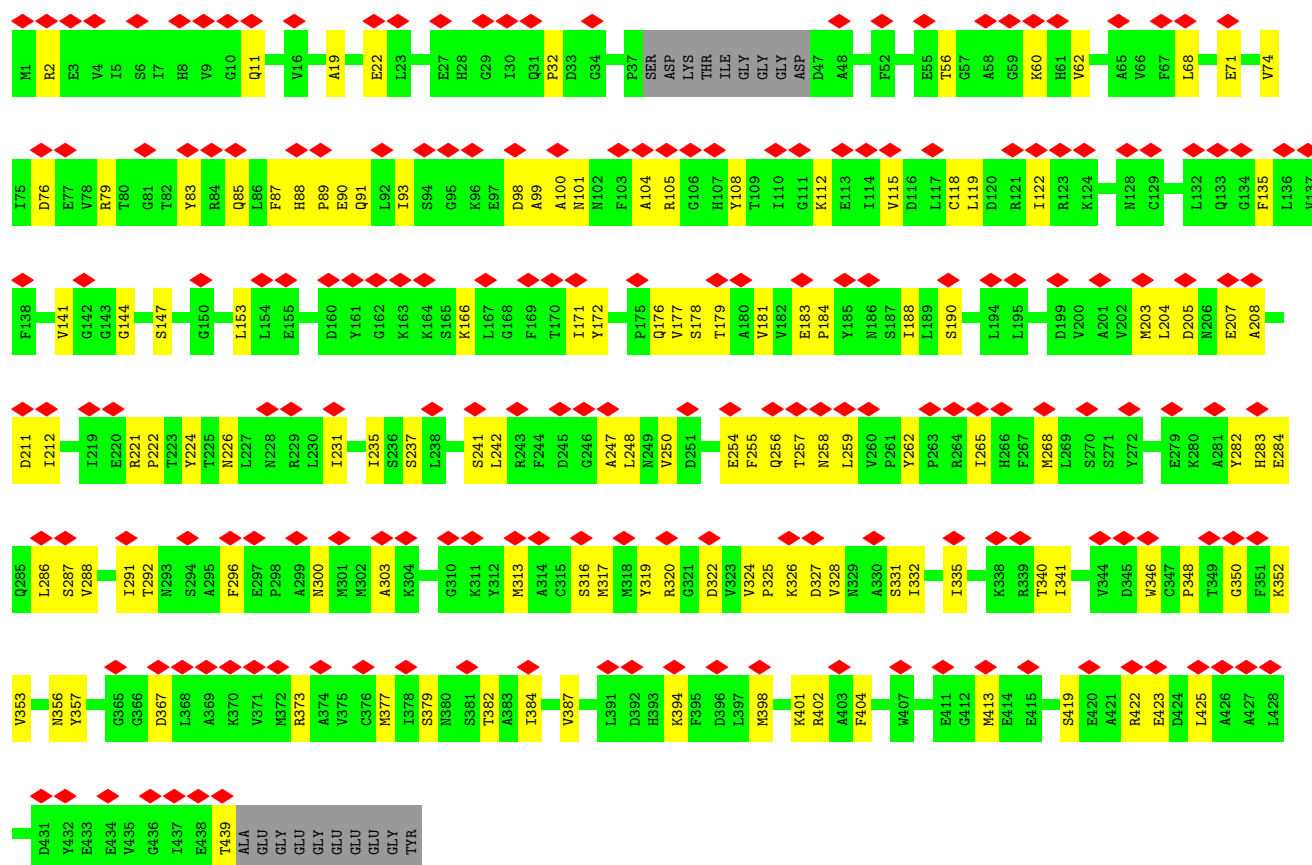
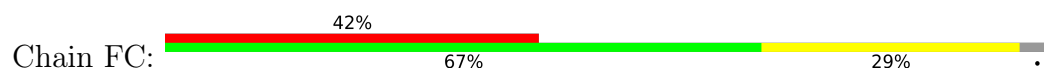




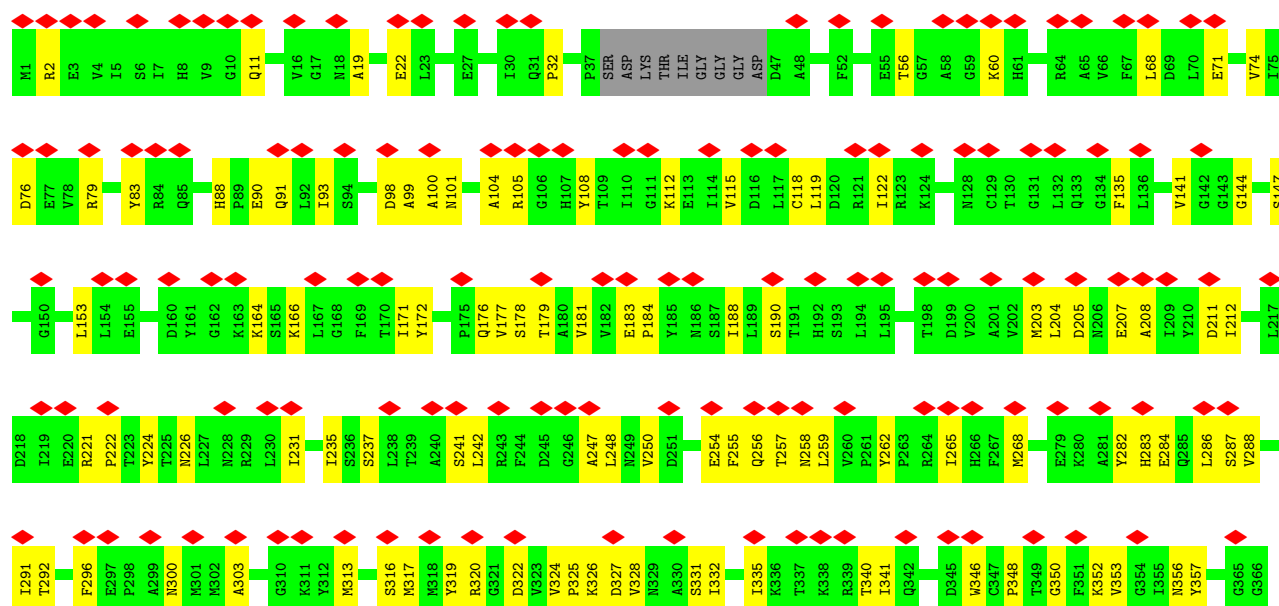
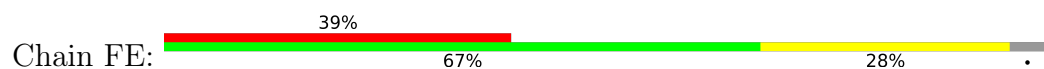
• Molecule 1: Tubulin alpha chain

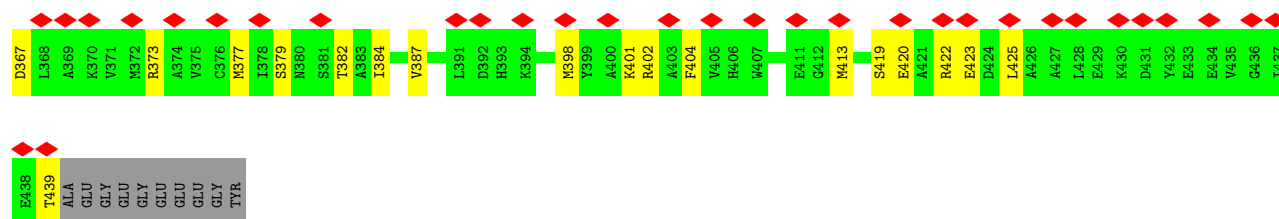


• Molecule 1: Tubulin alpha chain

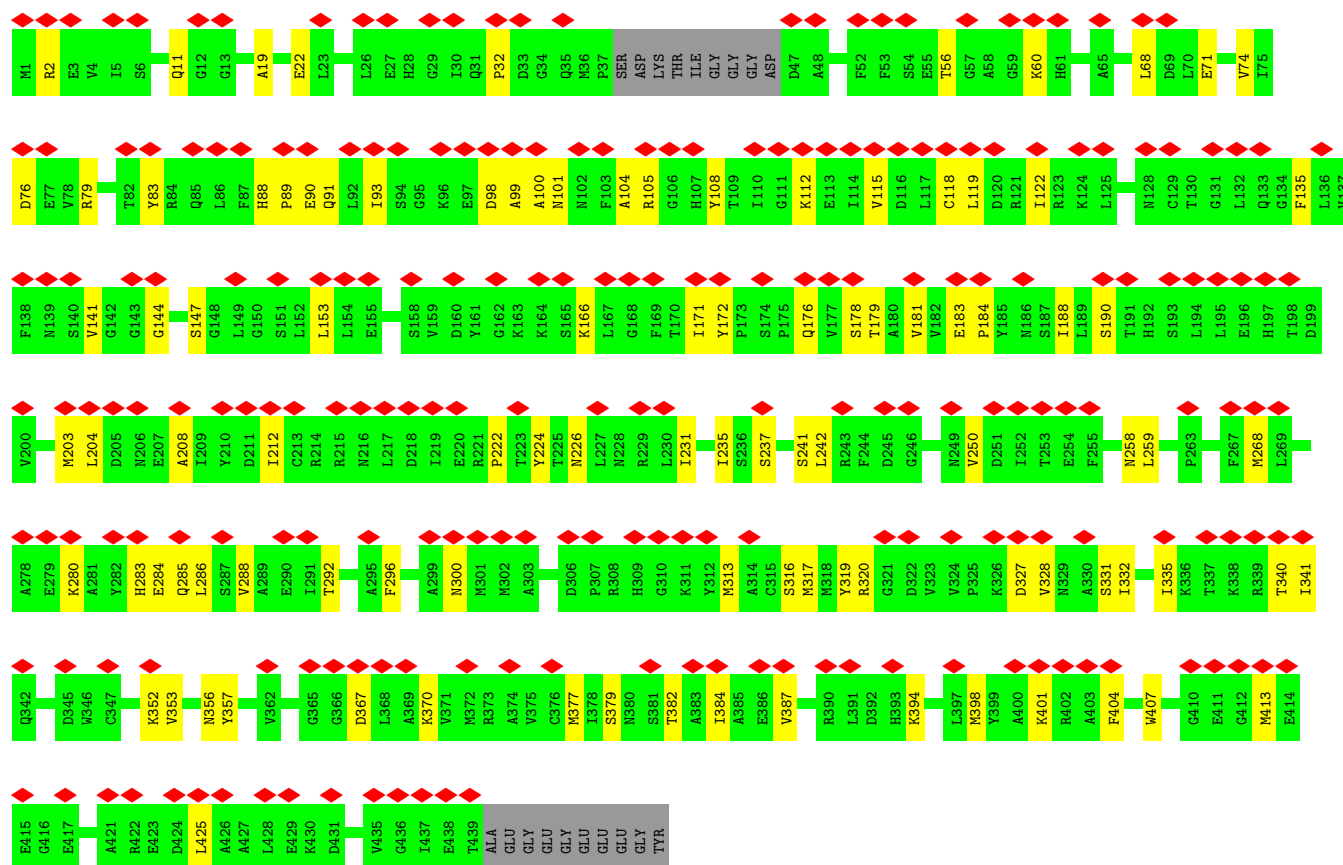
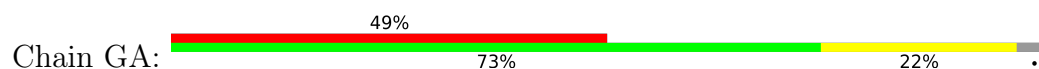


• Molecule 1: Tubulin alpha chain

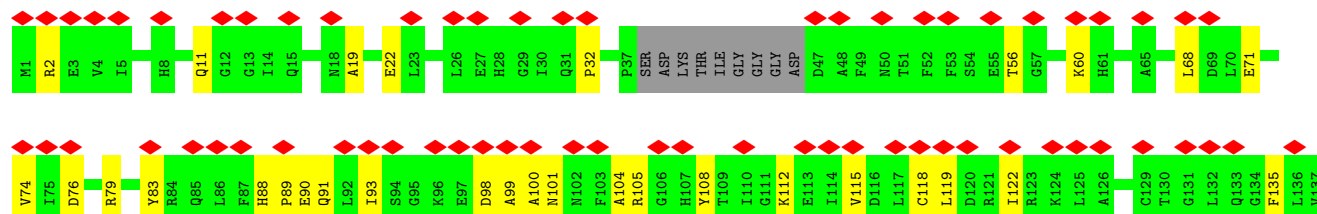


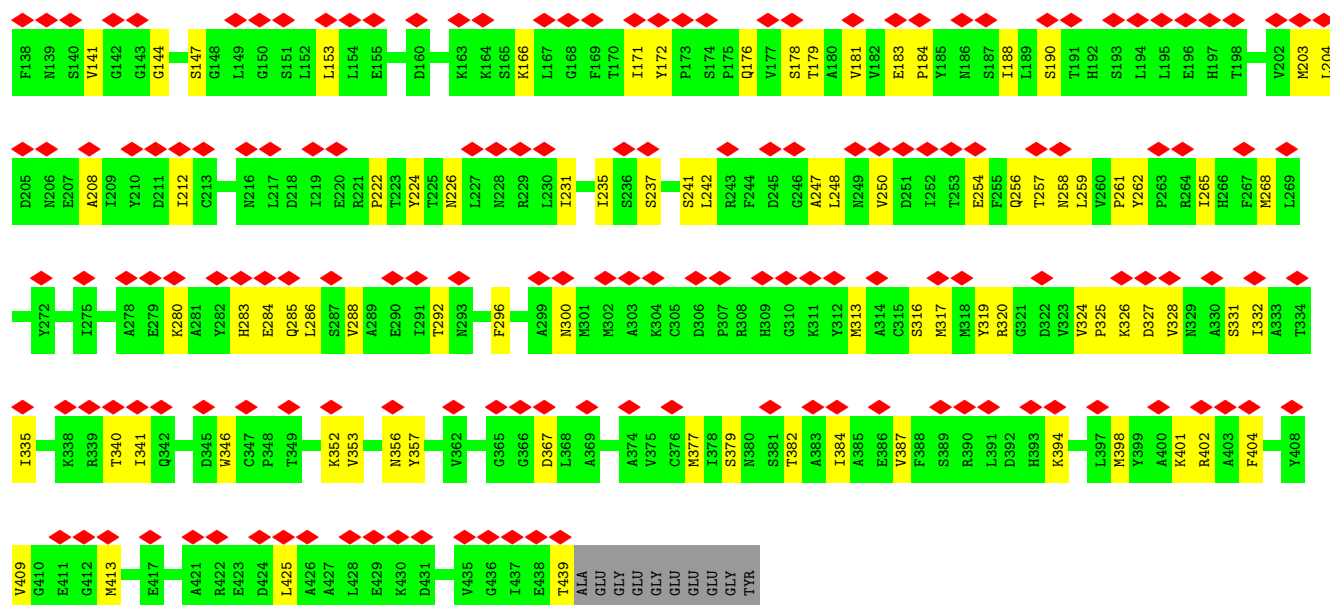


• Molecule 1: Tubulin alpha chain

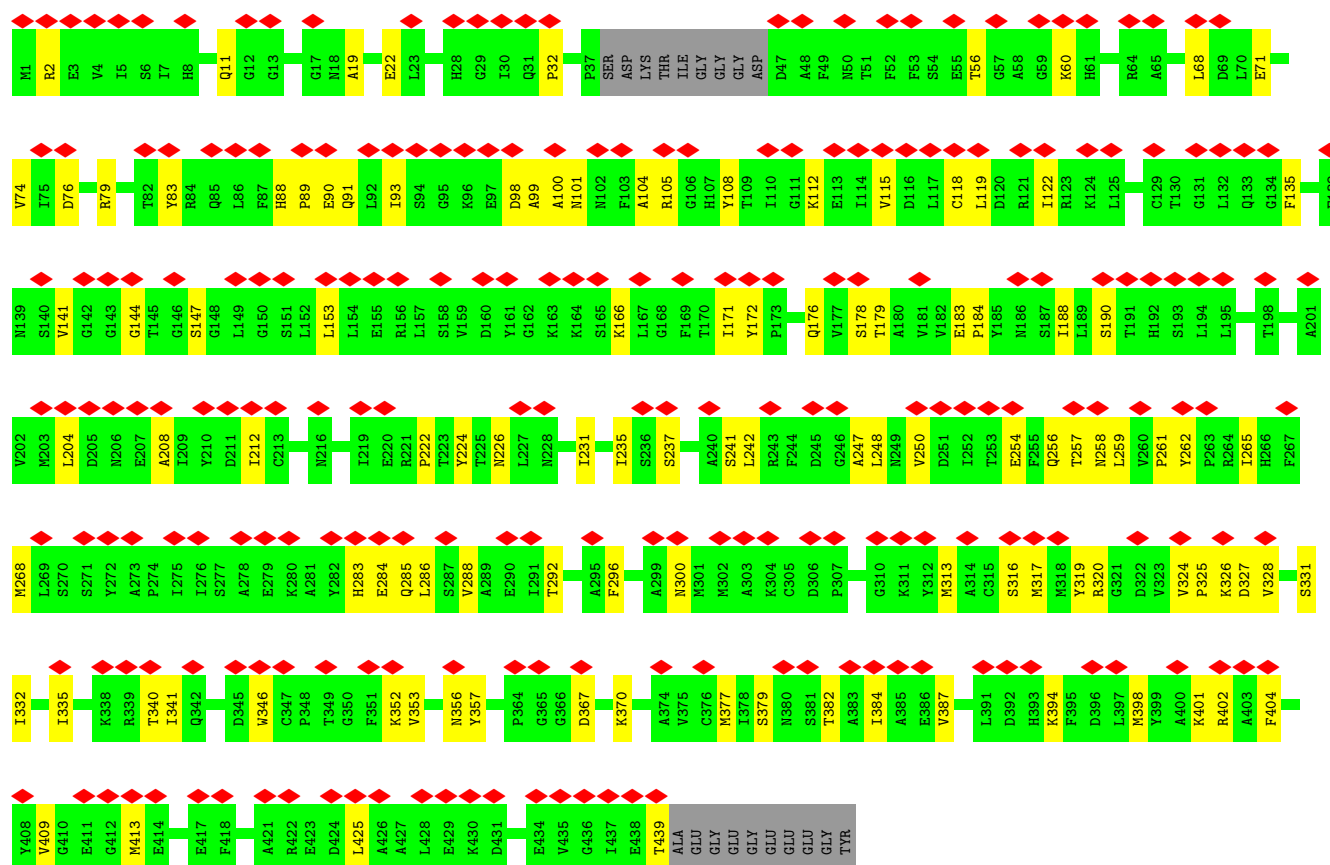
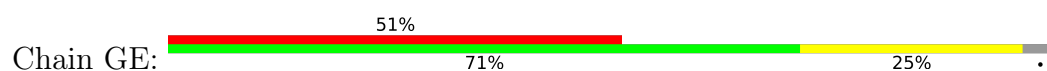


• Molecule 1: Tubulin alpha chain

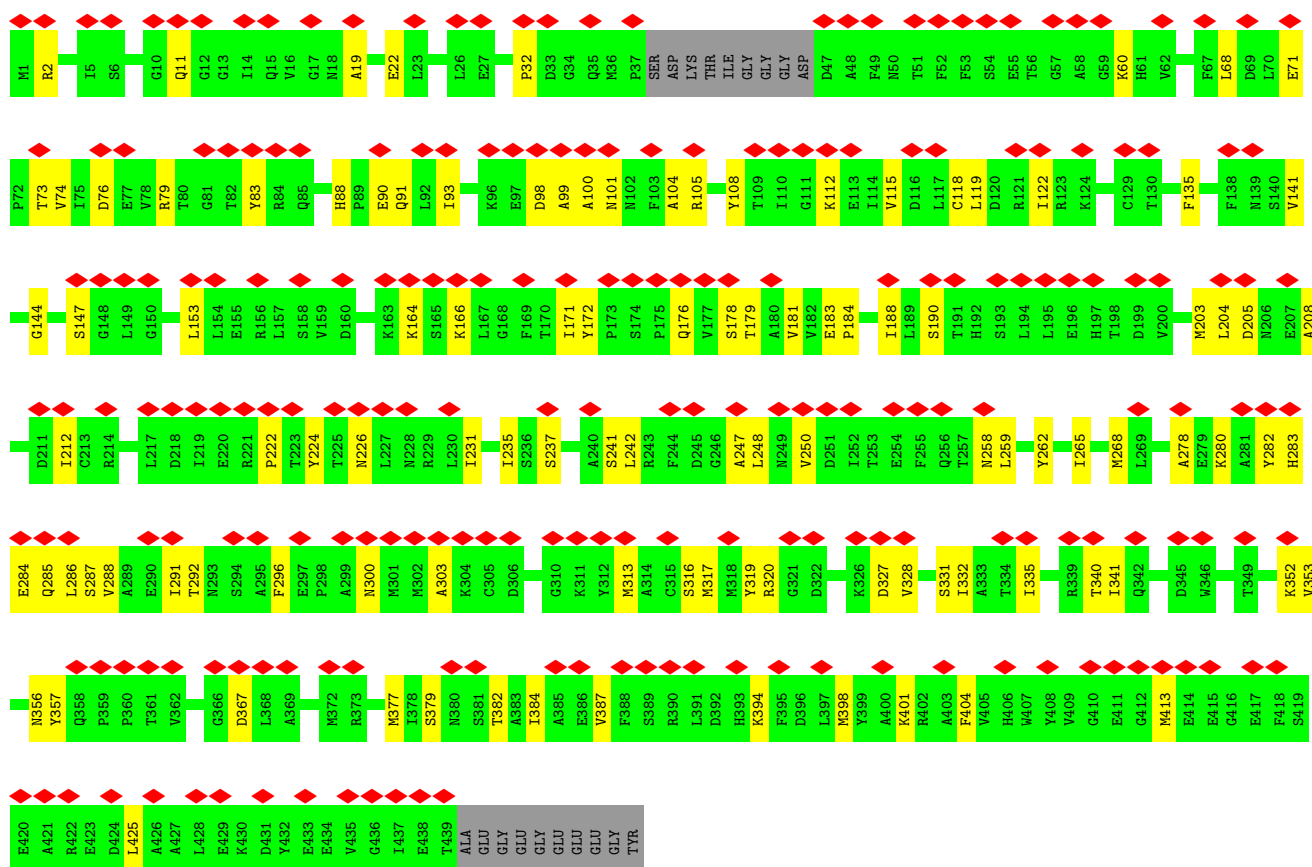
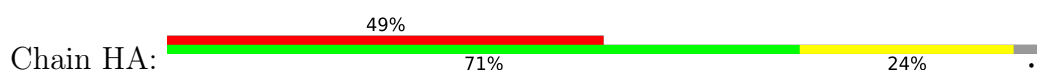




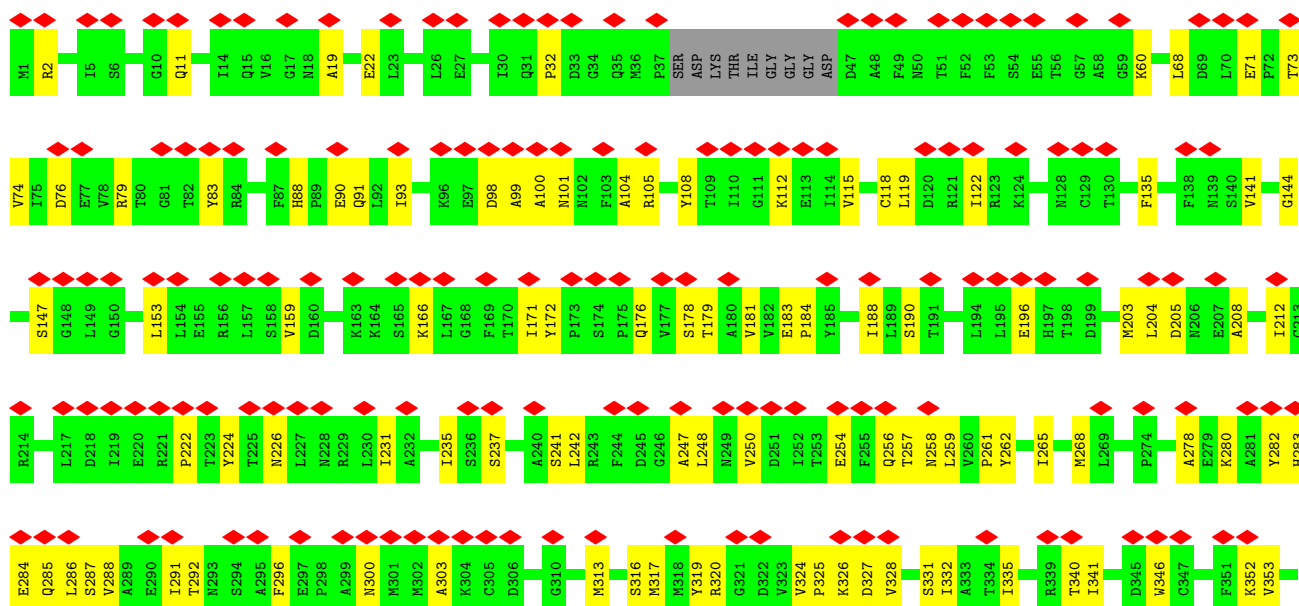
• Molecule 1: Tubulin alpha chain

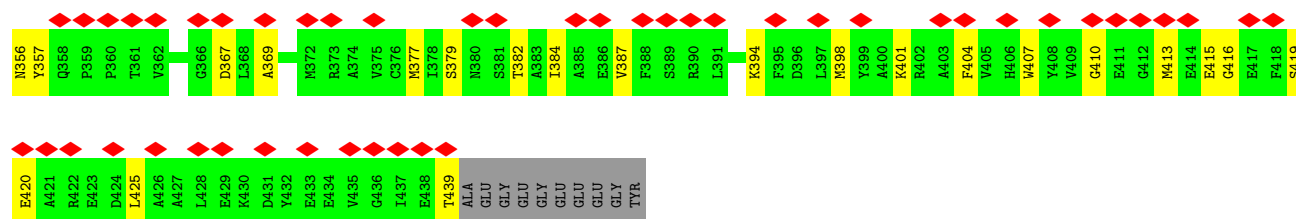


• Molecule 1: Tubulin alpha chain

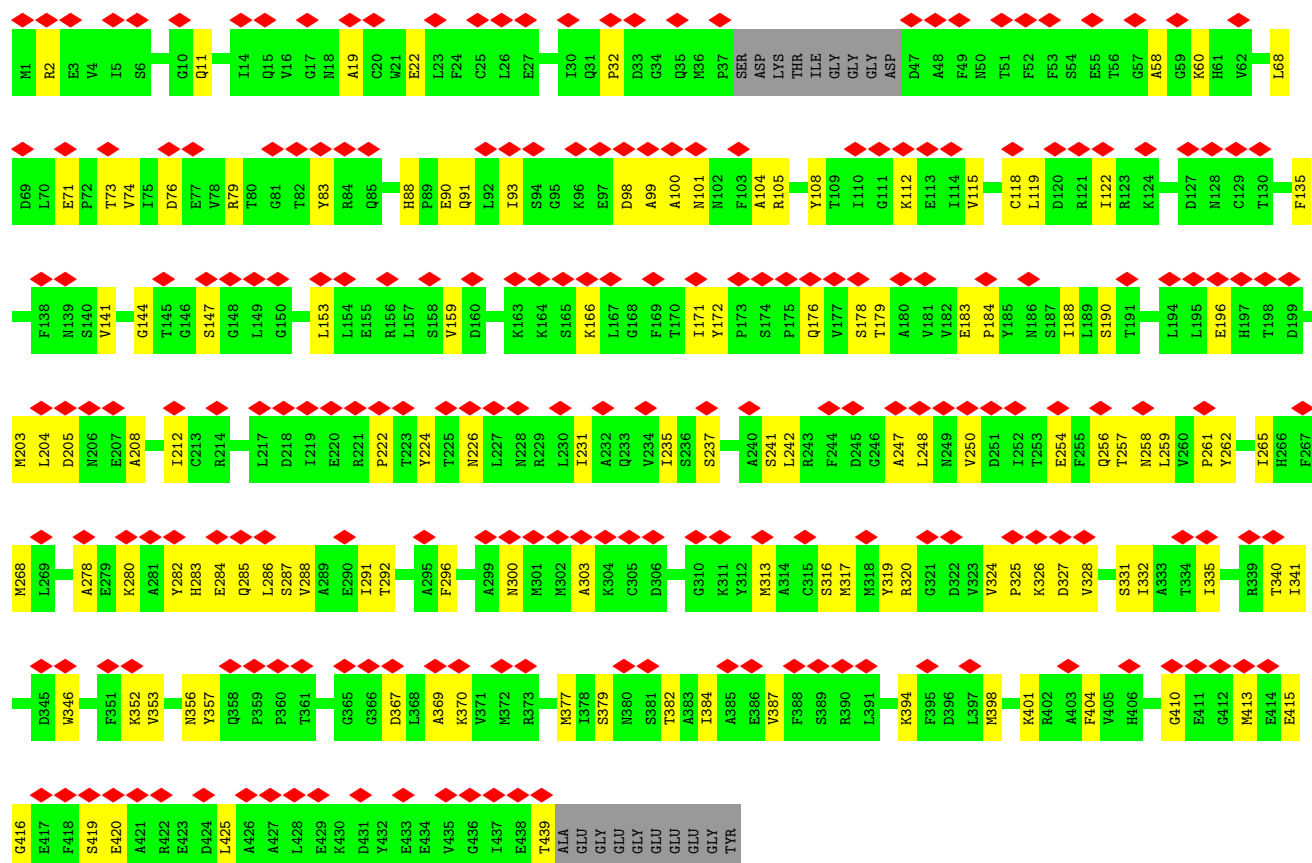


• Molecule 1: Tubulin alpha chain

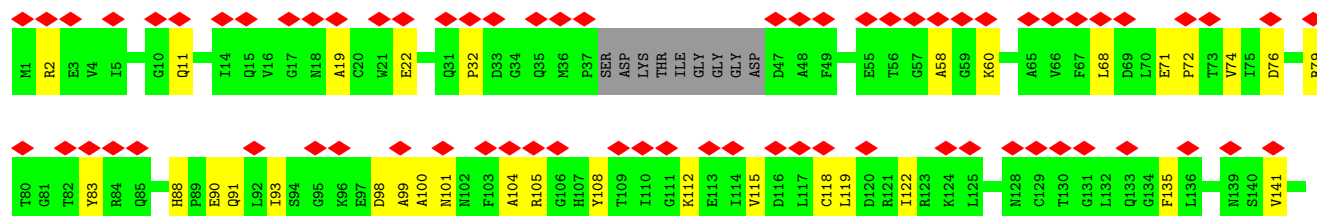
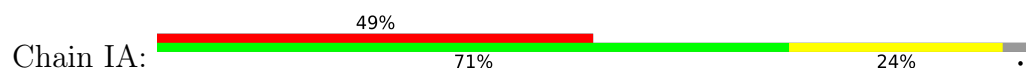


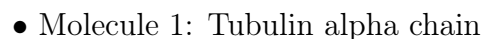


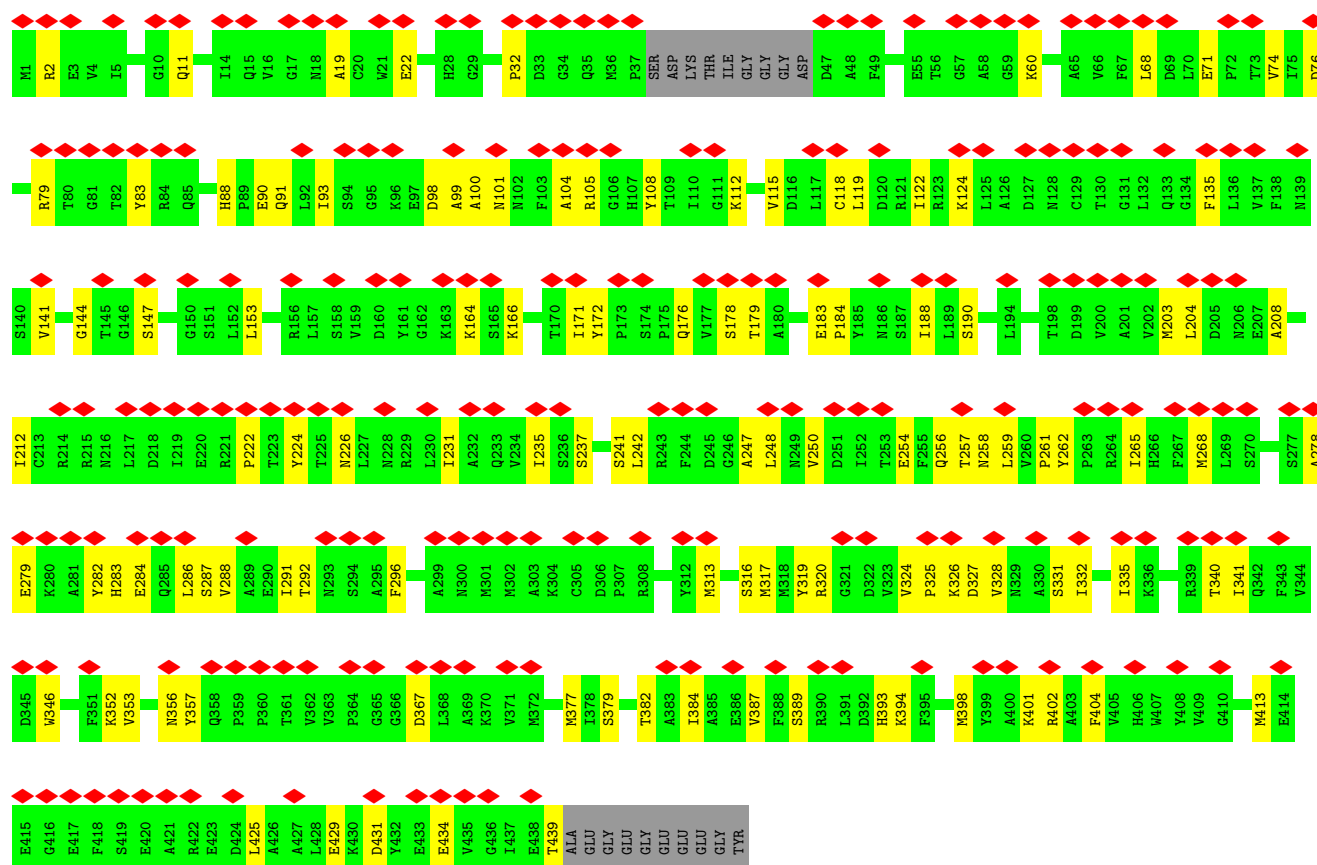
• Molecule 1: Tubulin alpha chain

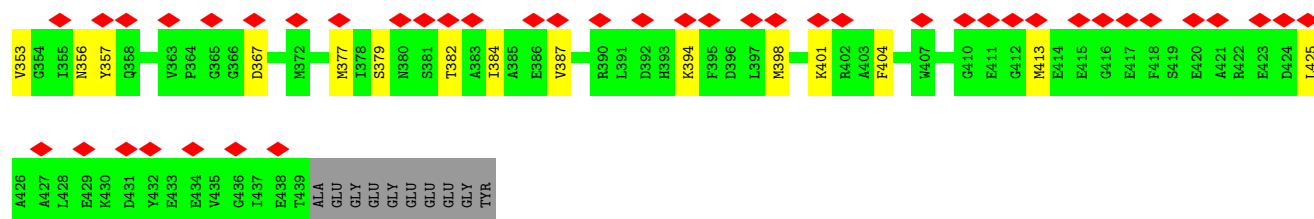


• Molecule 1: Tubulin alpha chain

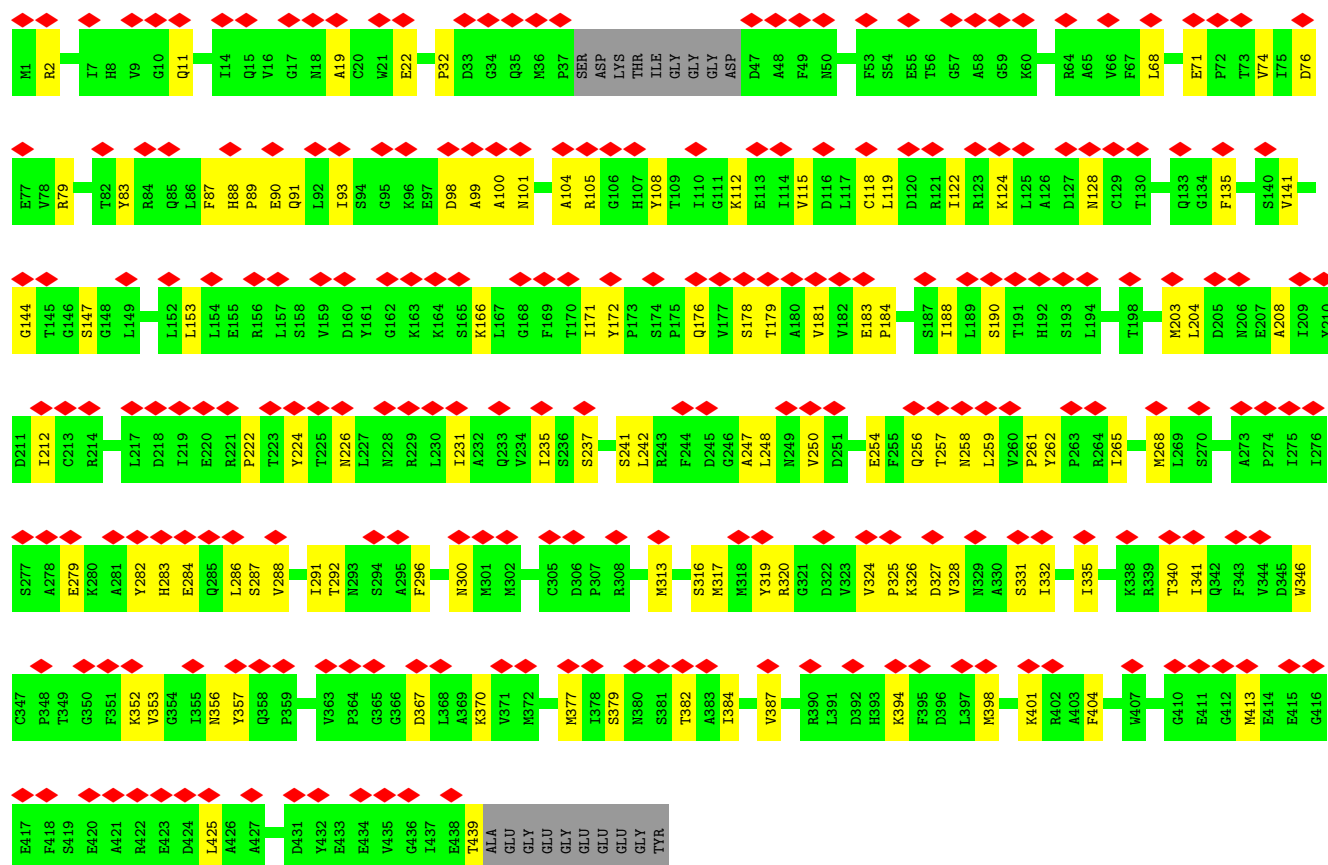
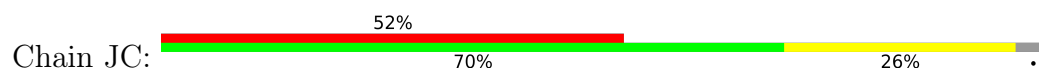




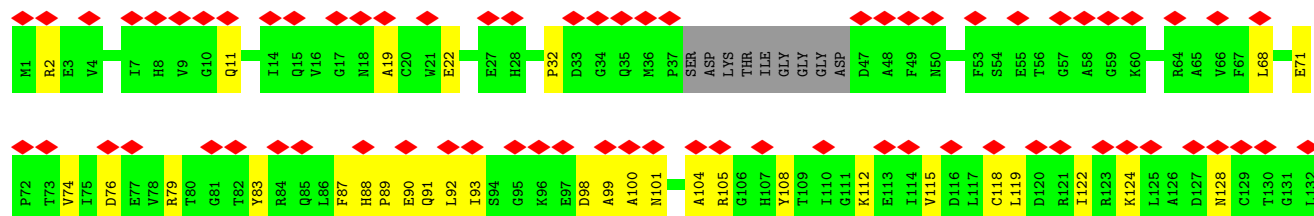




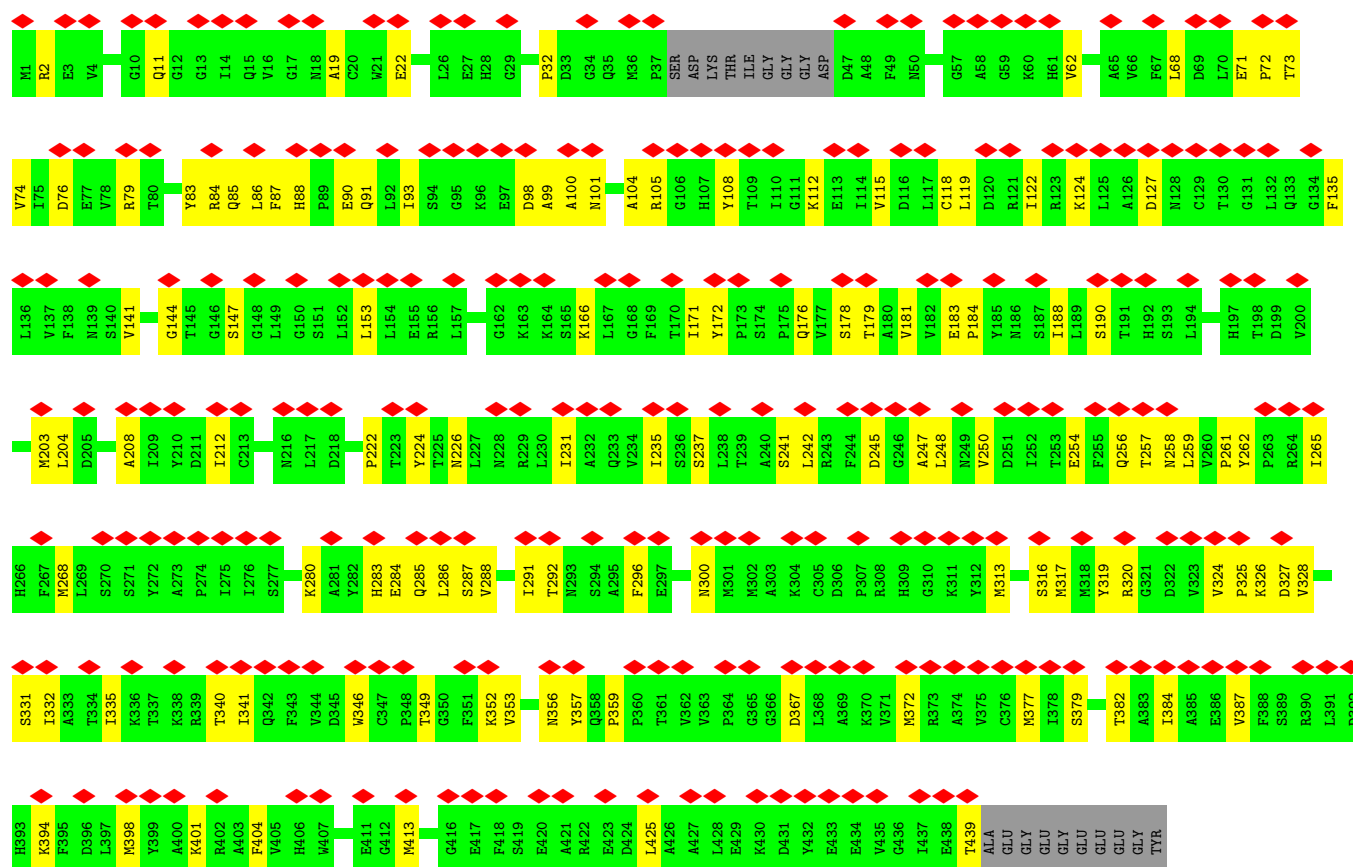
• Molecule 1: Tubulin alpha chain



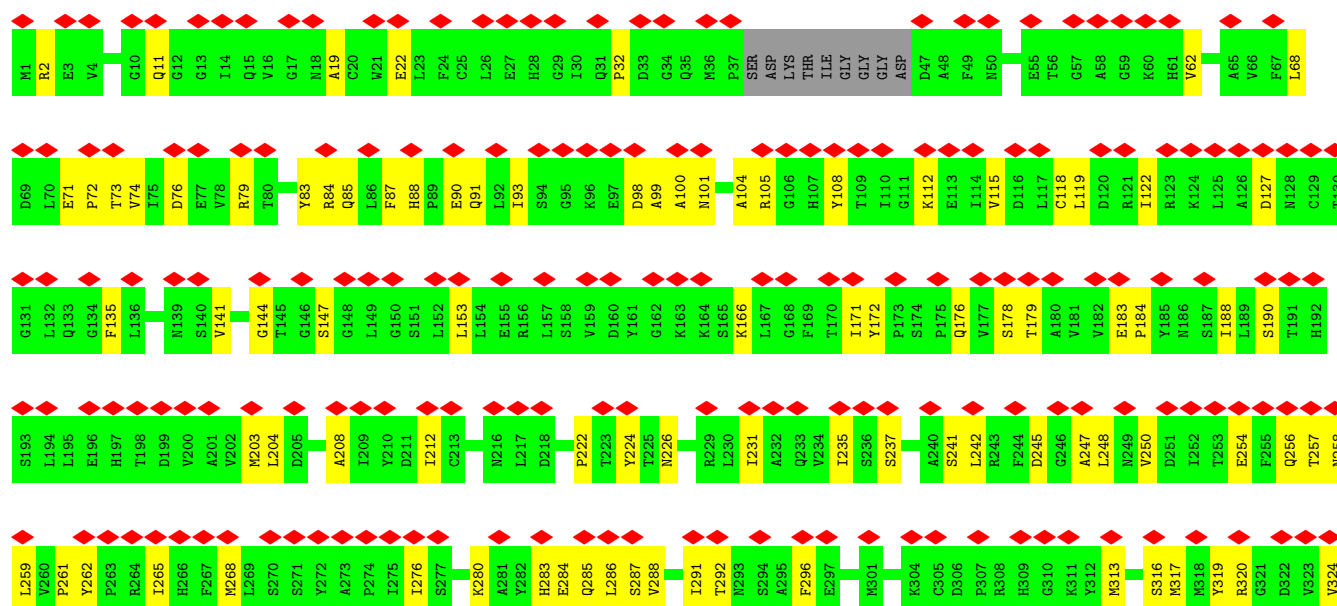
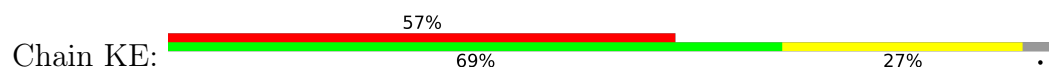
• Molecule 1: Tubulin alpha chain

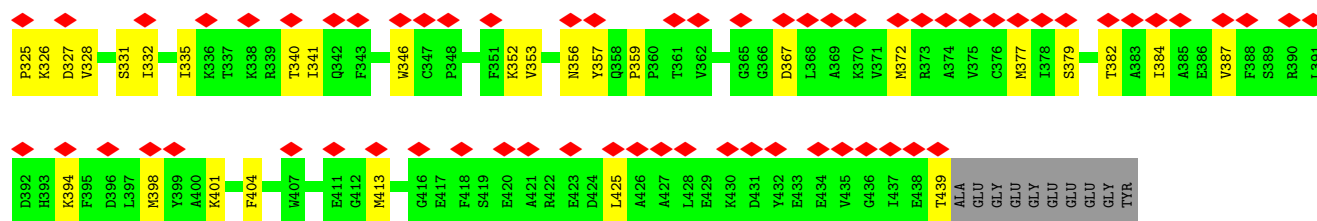




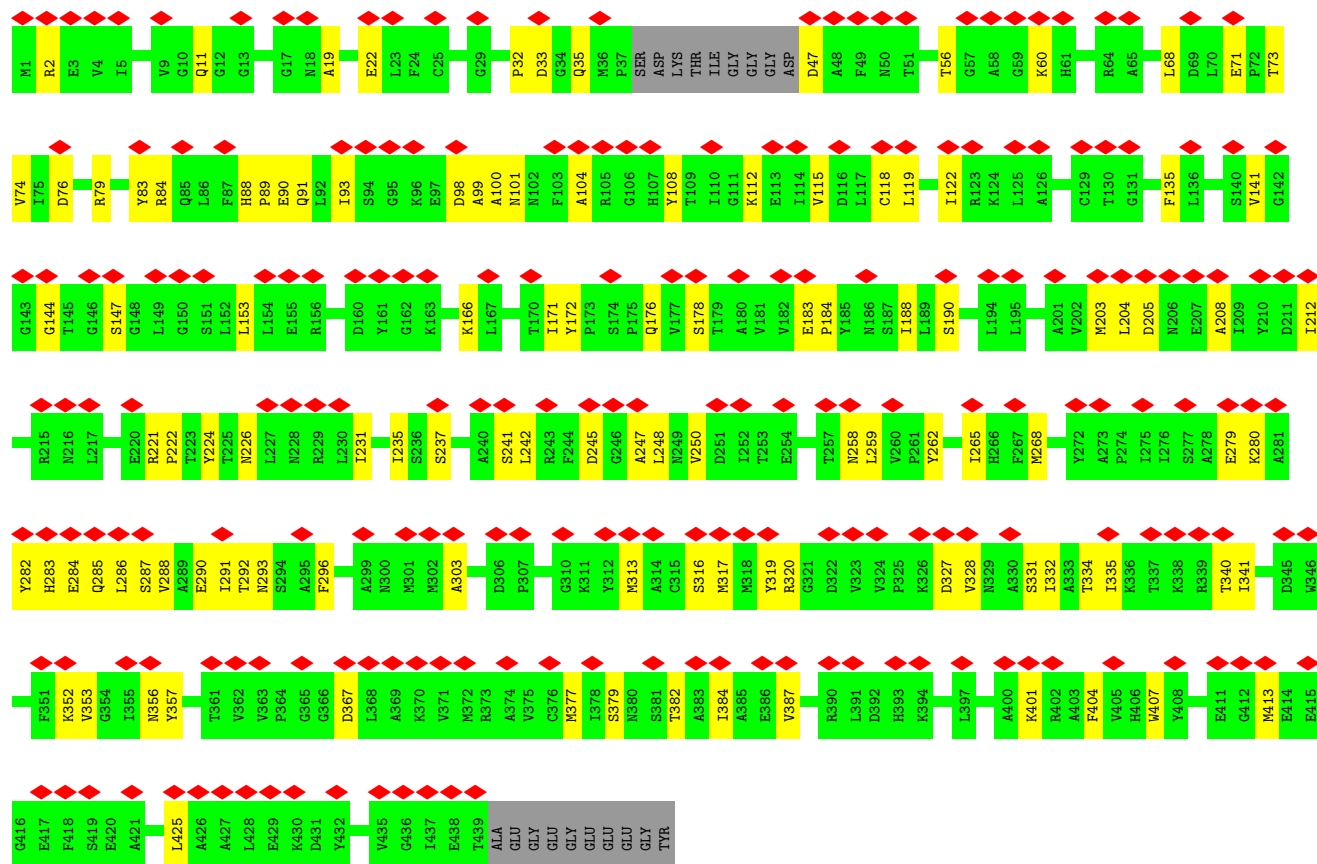
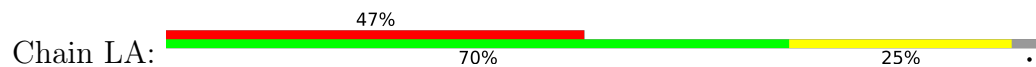


• Molecule 1: Tubulin alpha chain

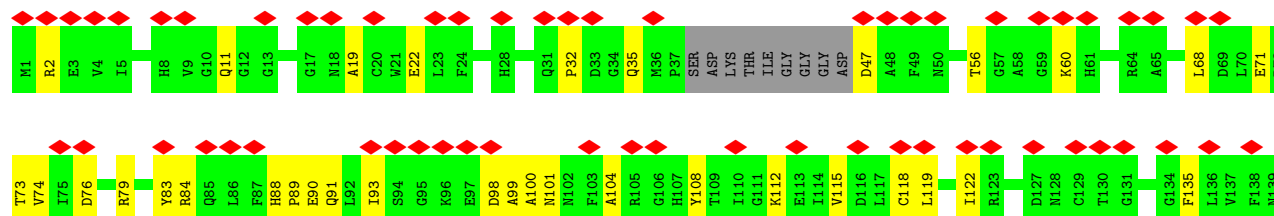
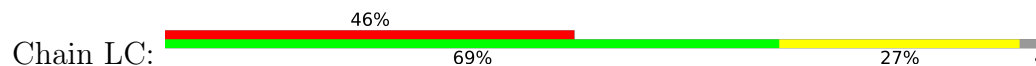


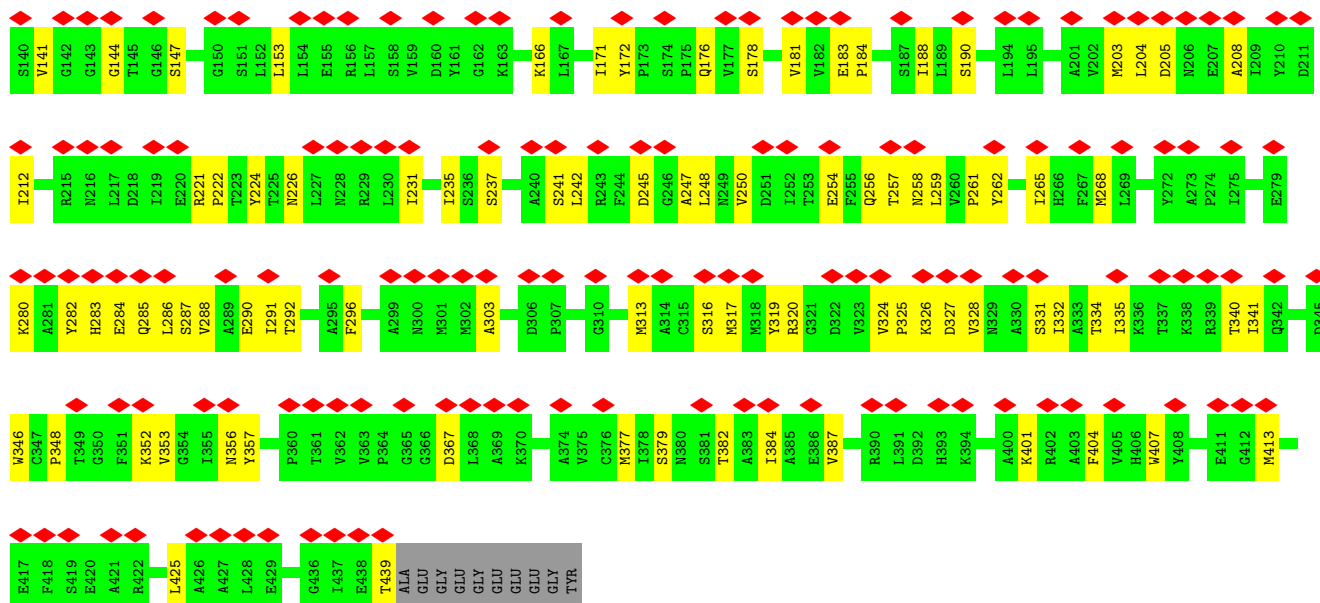


• Molecule 1: Tubulin alpha chain

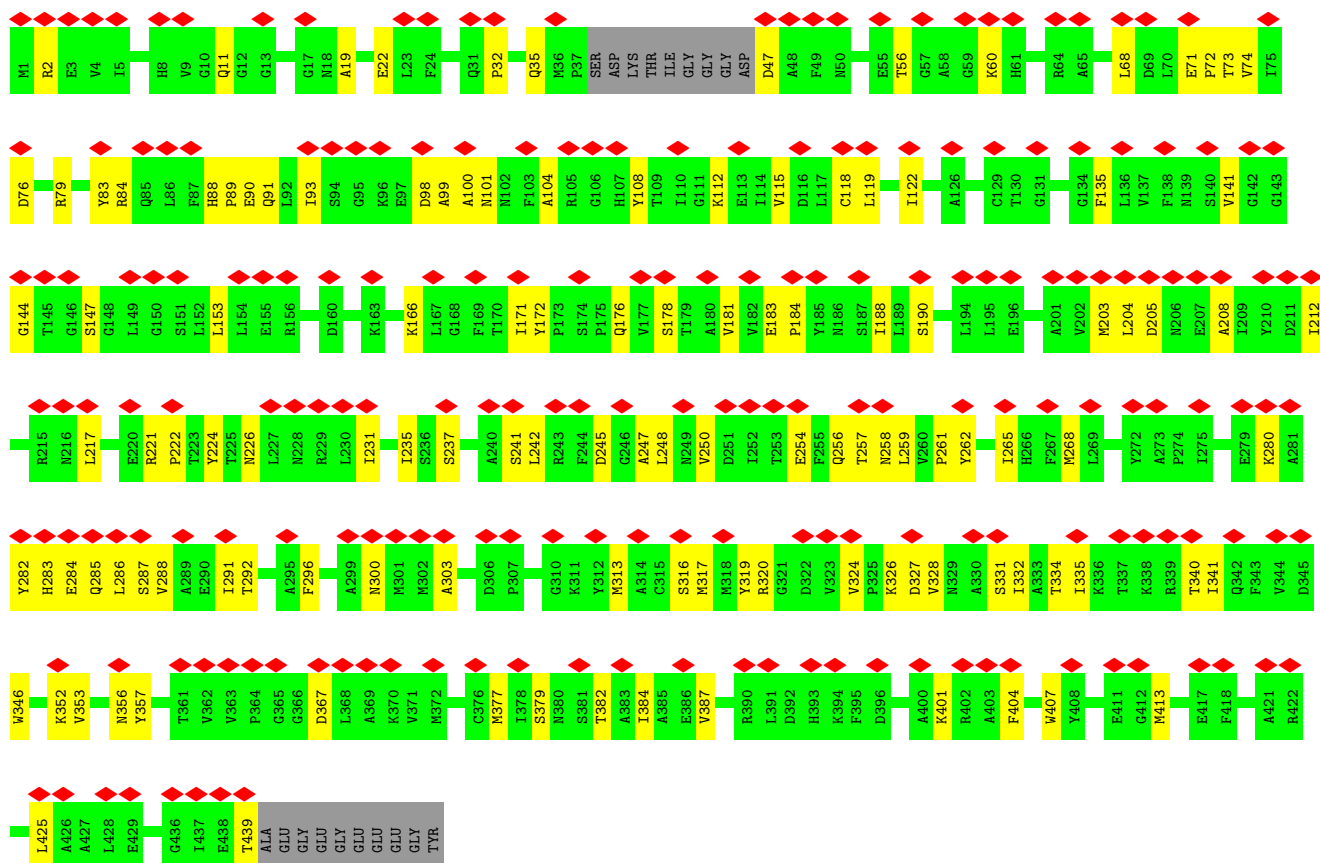


• Molecule 1: Tubulin alpha chain

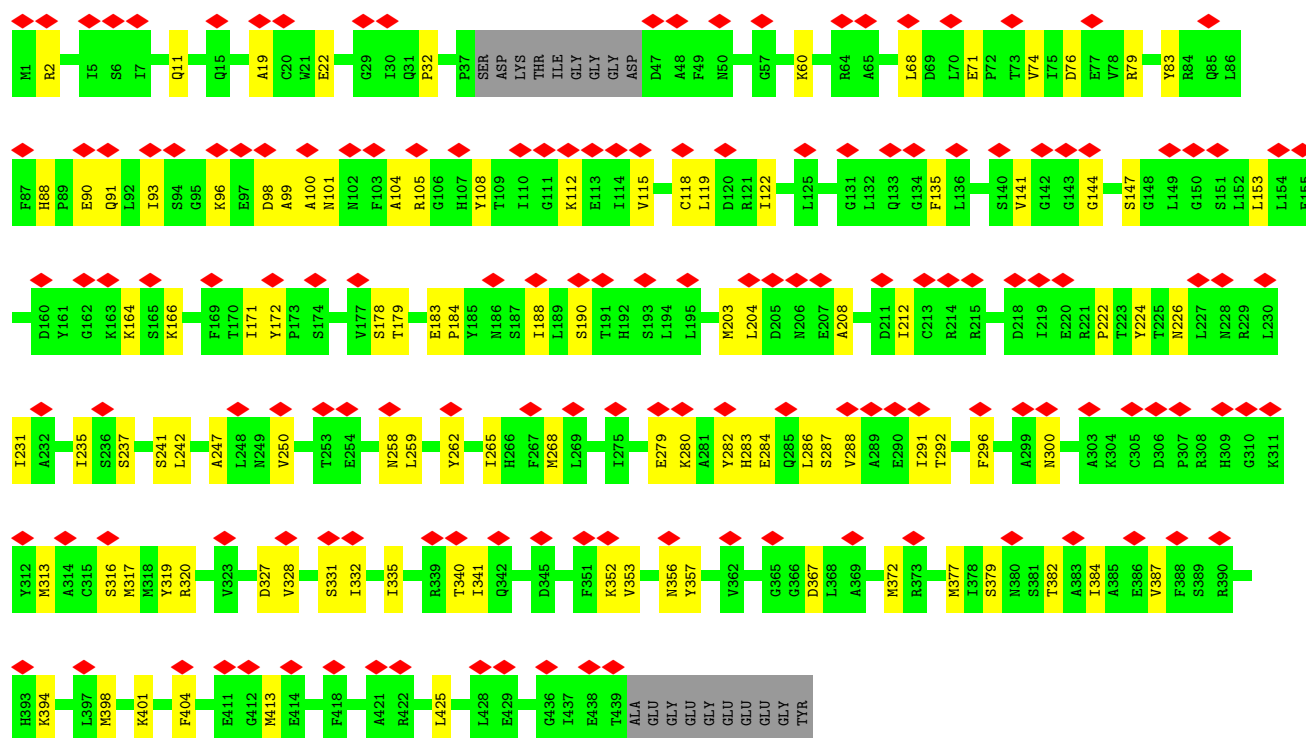
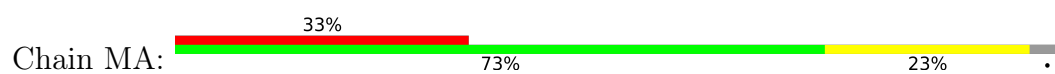




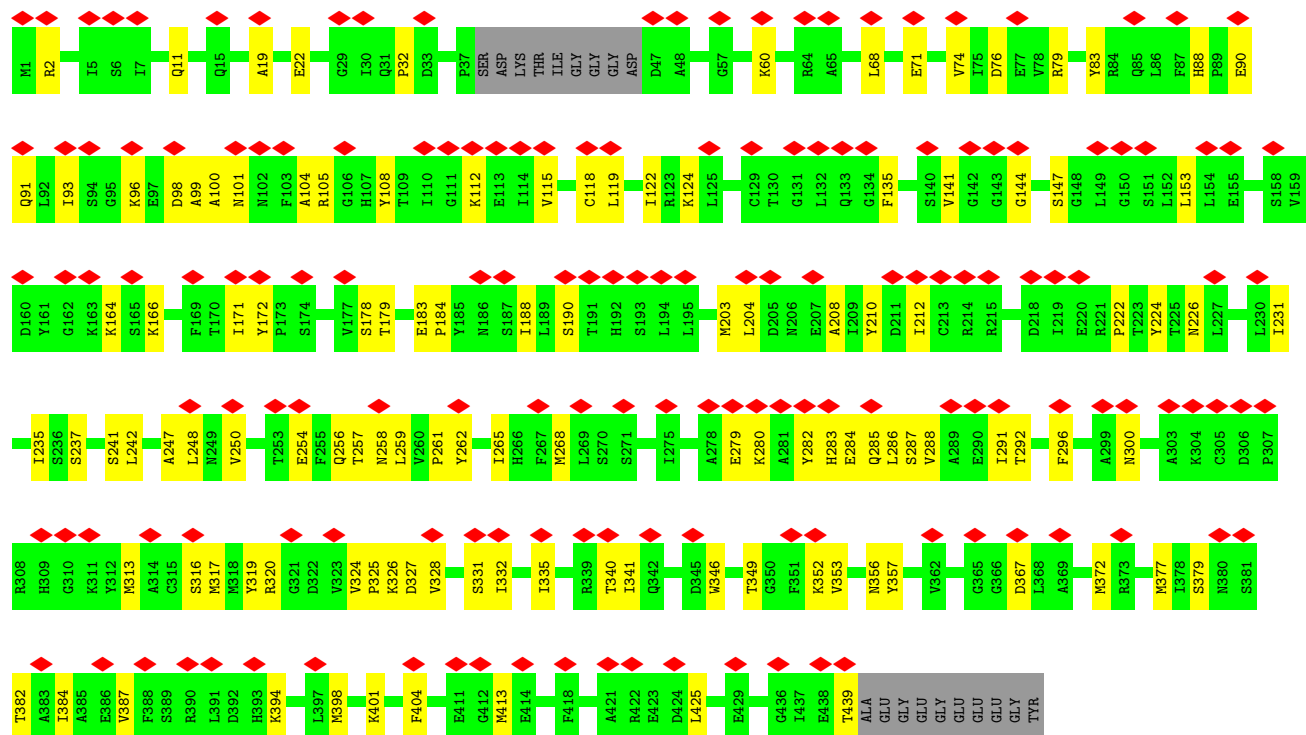
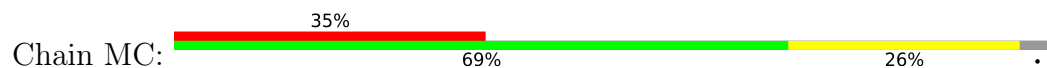
• Molecule 1: Tubulin alpha chain



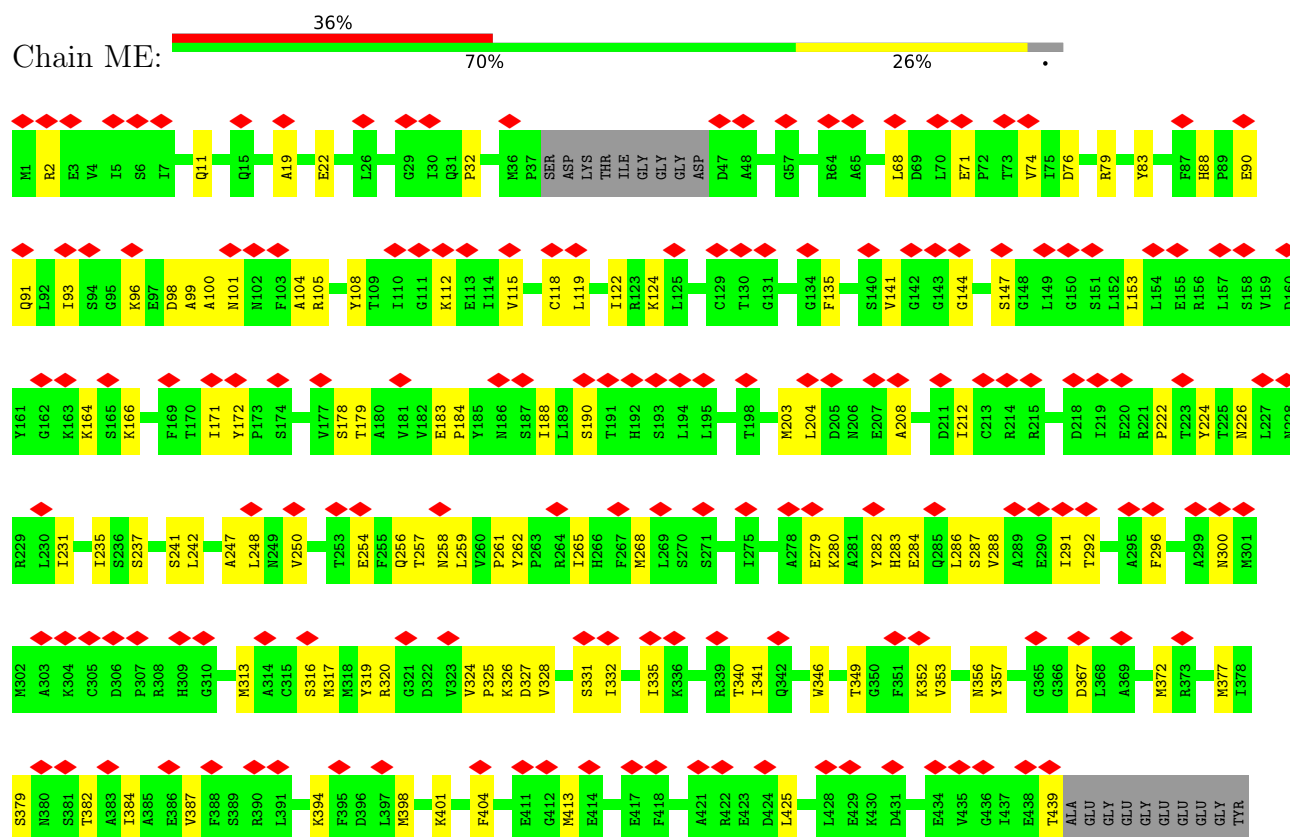
• Molecule 1: Tubulin alpha chain



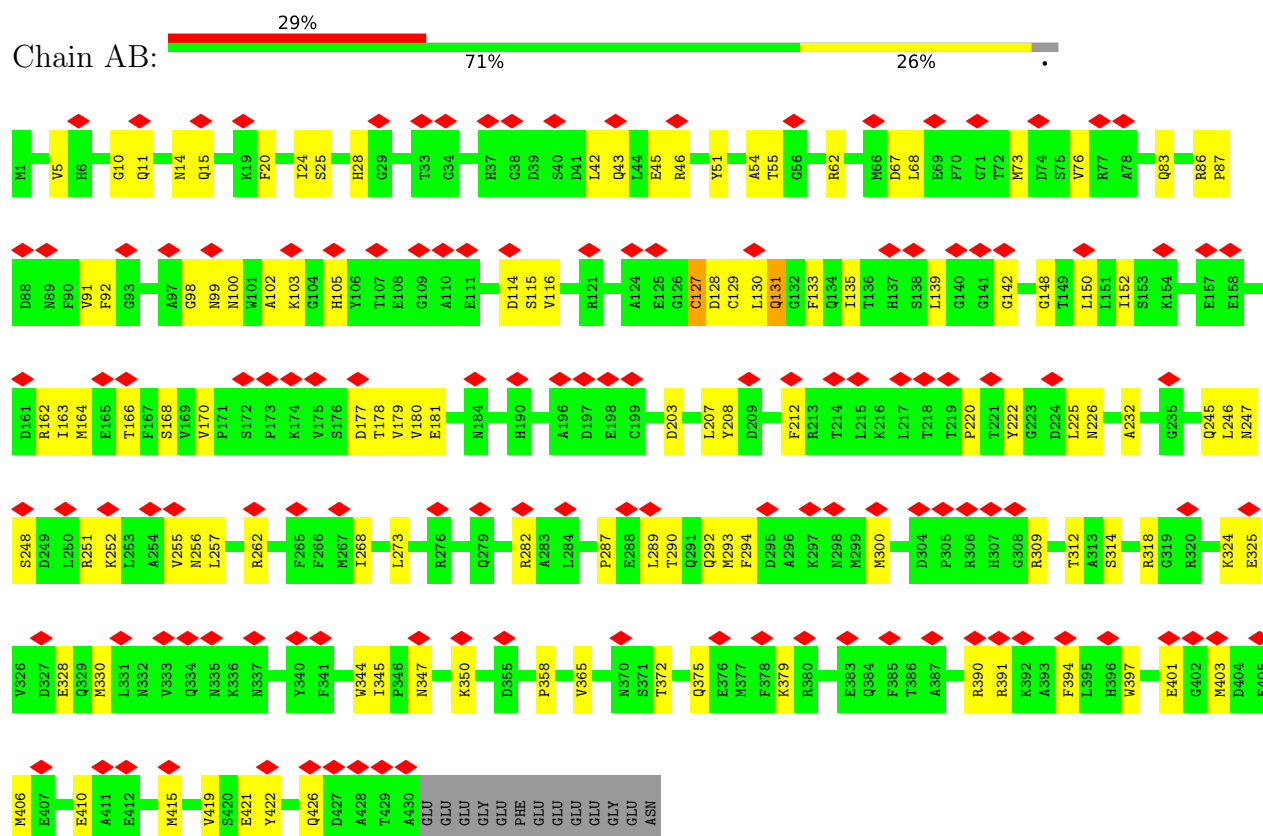
• Molecule 1: Tubulin alpha chain



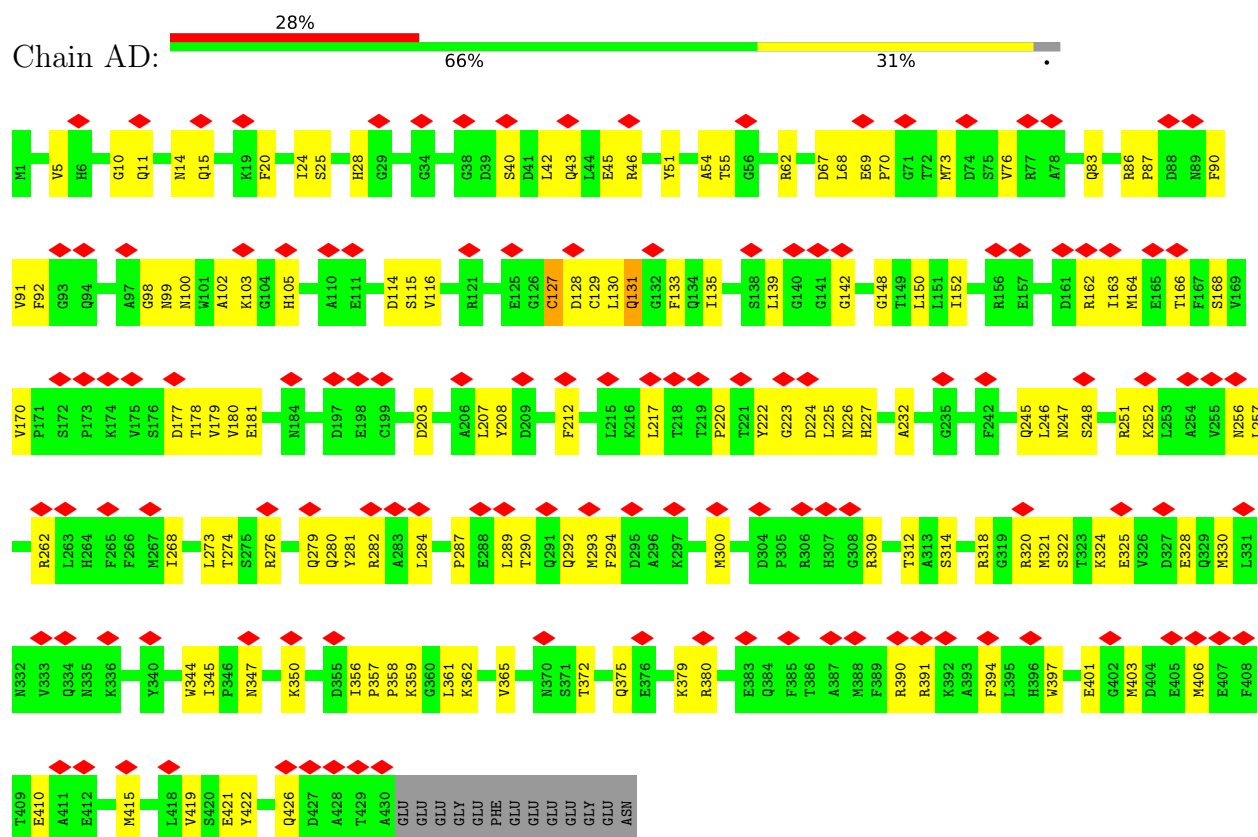
- Molecule 1: Tubulin alpha chain



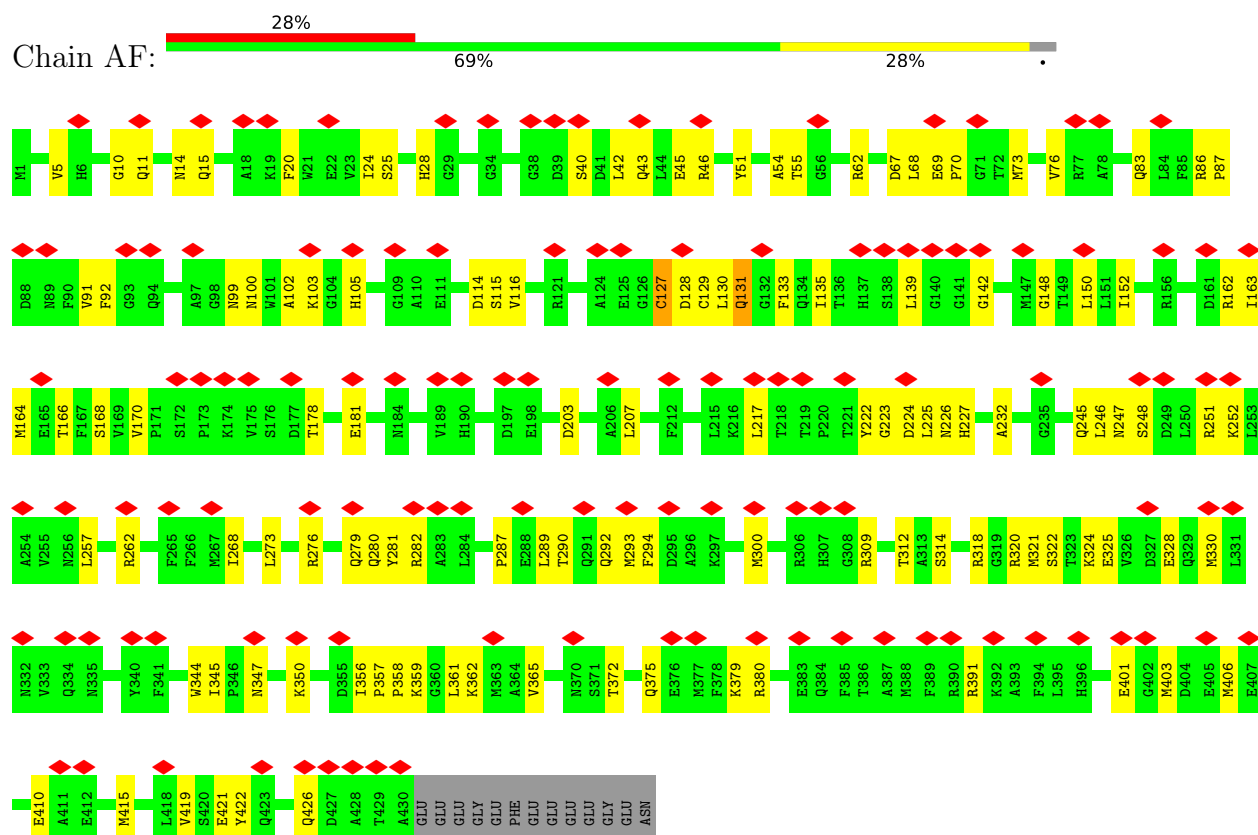
- Molecule 2: Tubulin beta chain



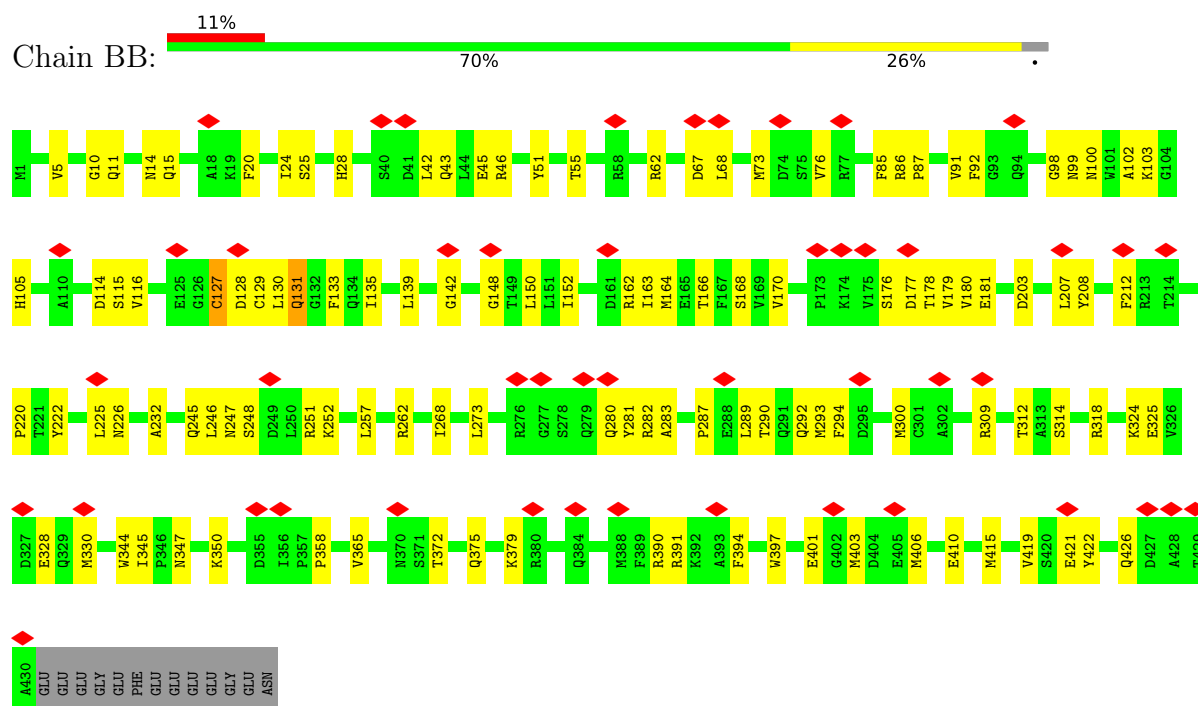
- Molecule 2: Tubulin beta chain



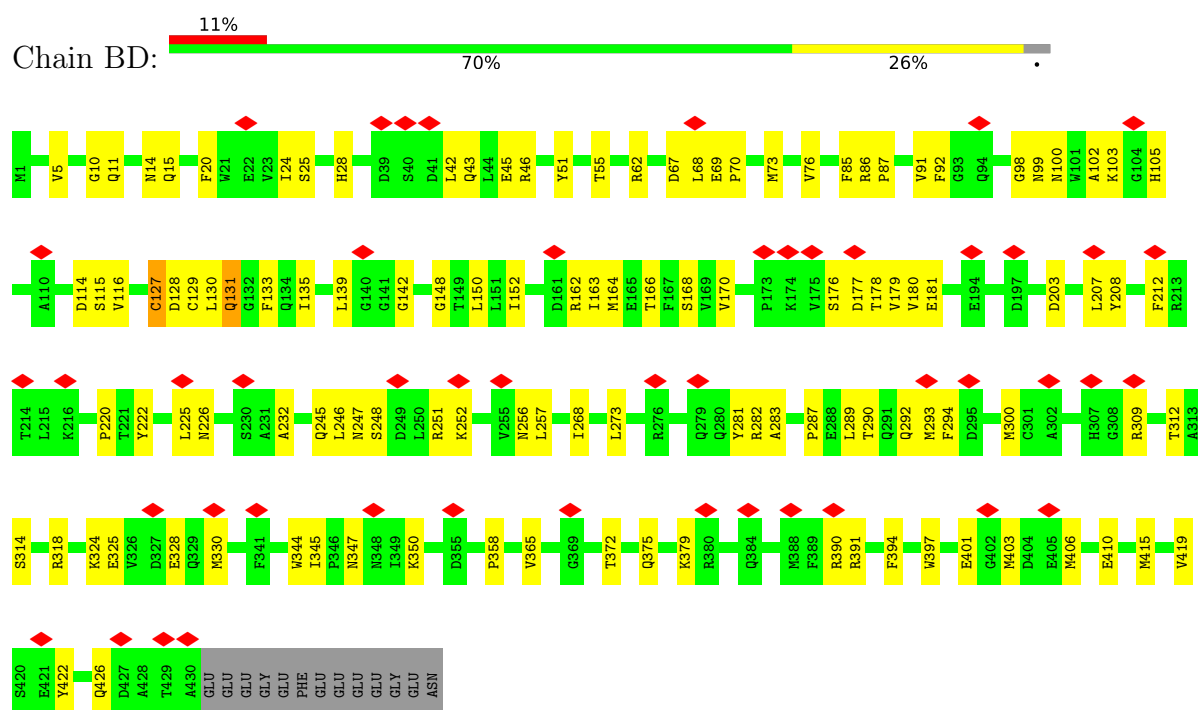
- Molecule 2: Tubulin beta chain



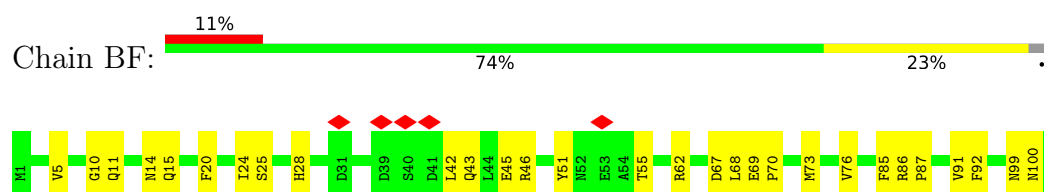
- Molecule 2: Tubulin beta chain

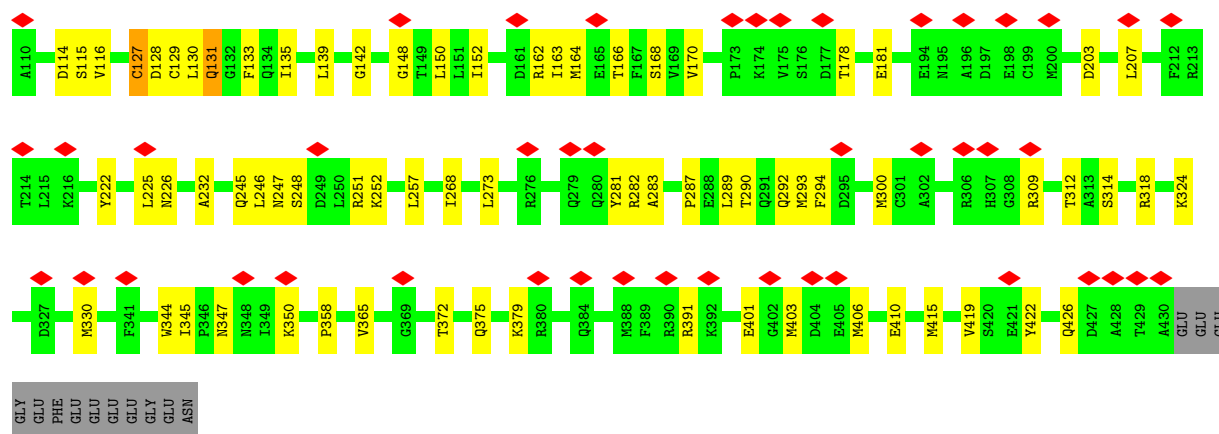


- Molecule 2: Tubulin beta chain

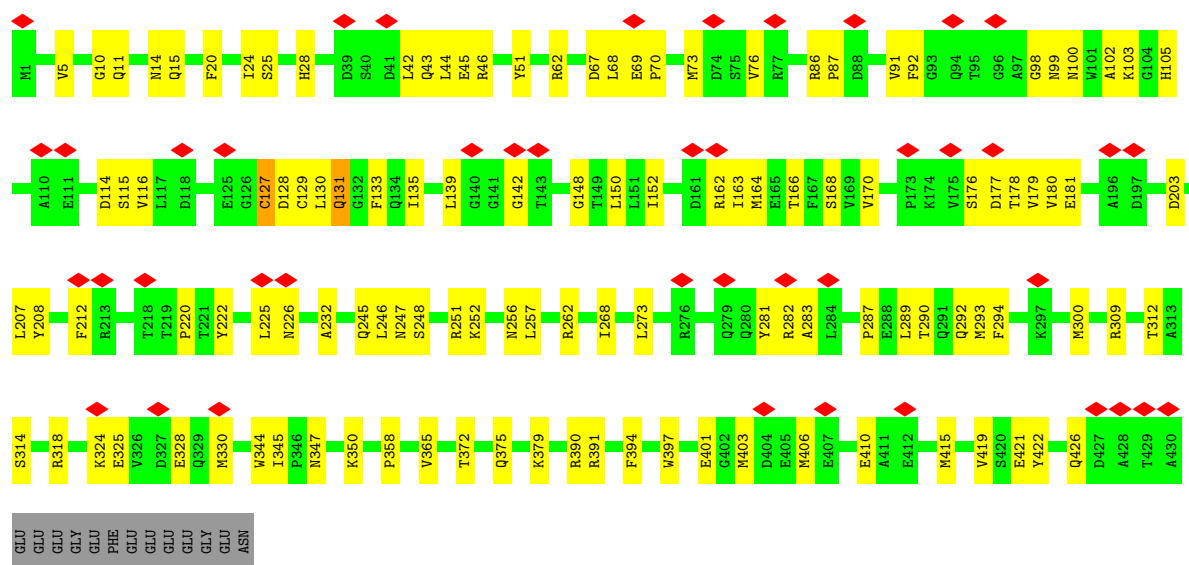
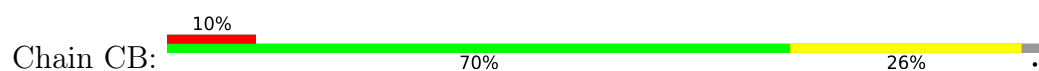


- Molecule 2: Tubulin beta chain

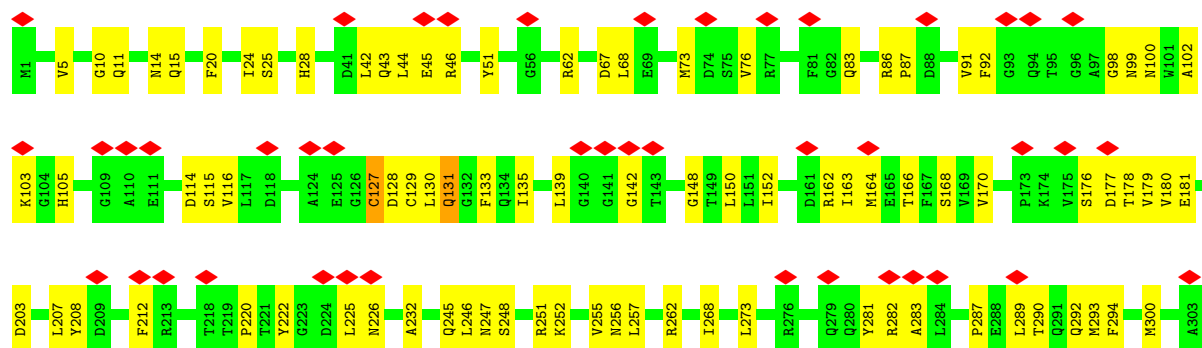
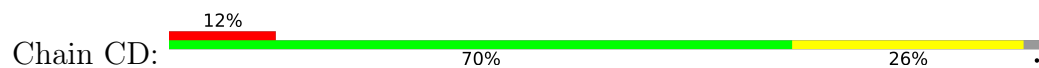


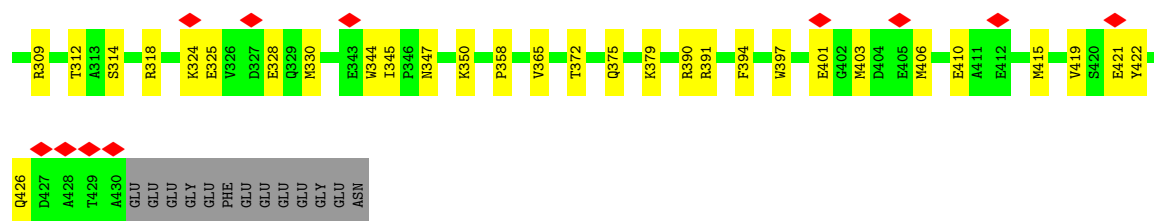


• Molecule 2: Tubulin beta chain

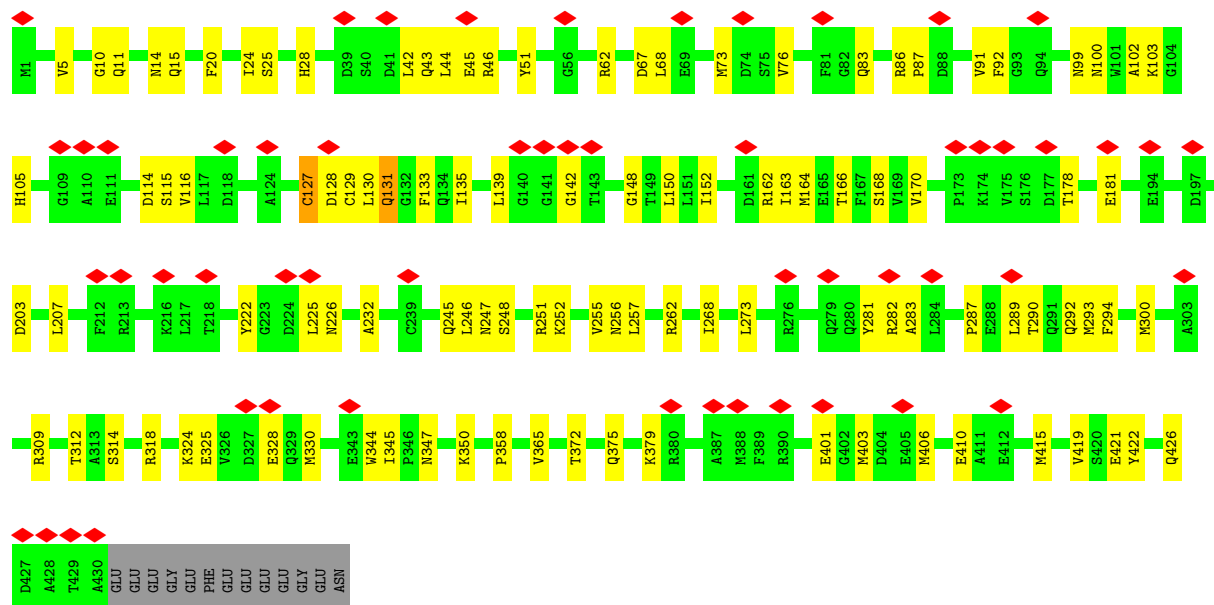
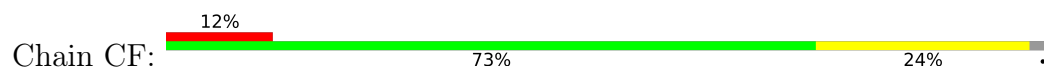


• Molecule 2: Tubulin beta chain

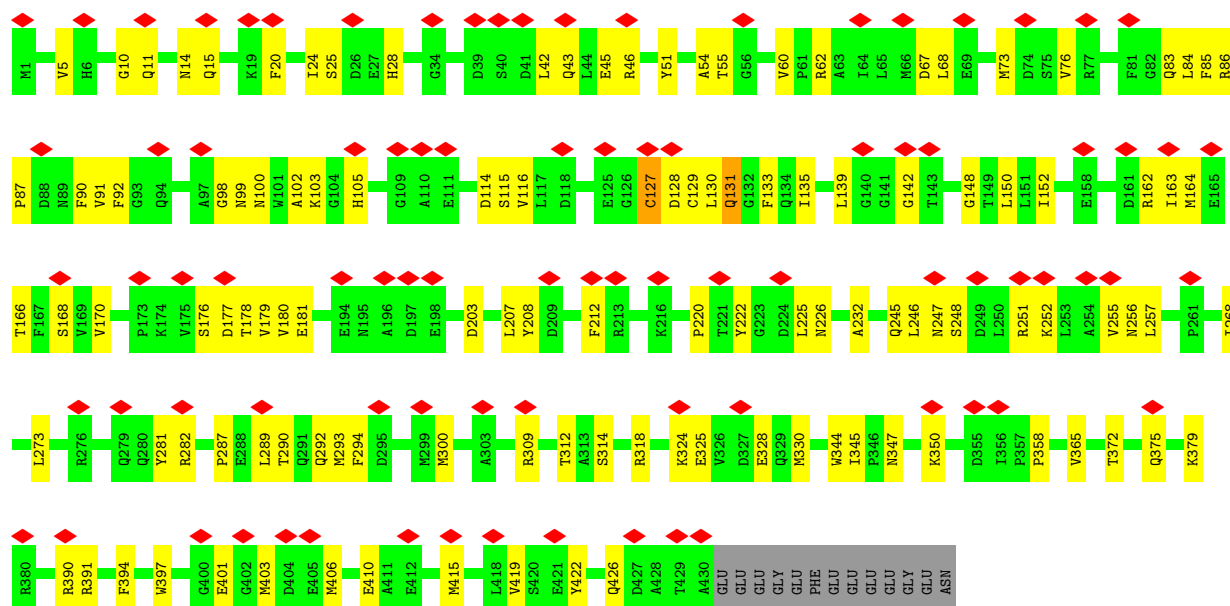
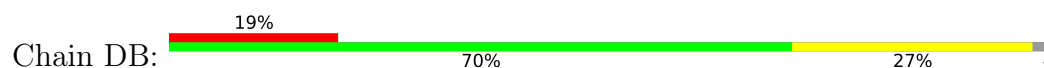




• Molecule 2: Tubulin beta chain

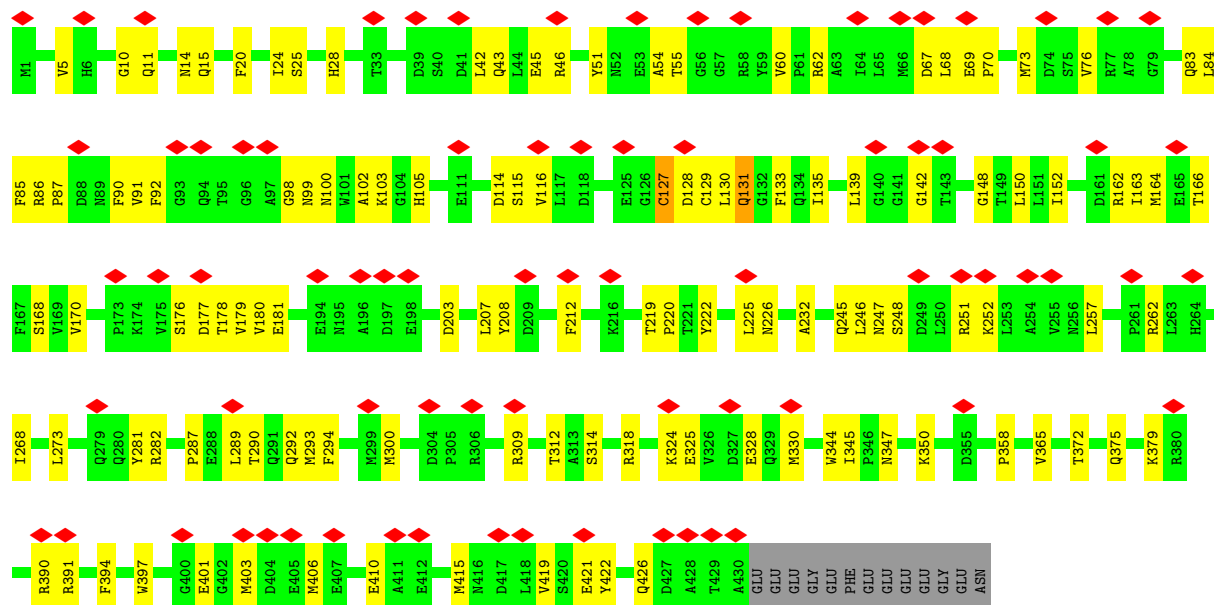


• Molecule 2: Tubulin beta chain



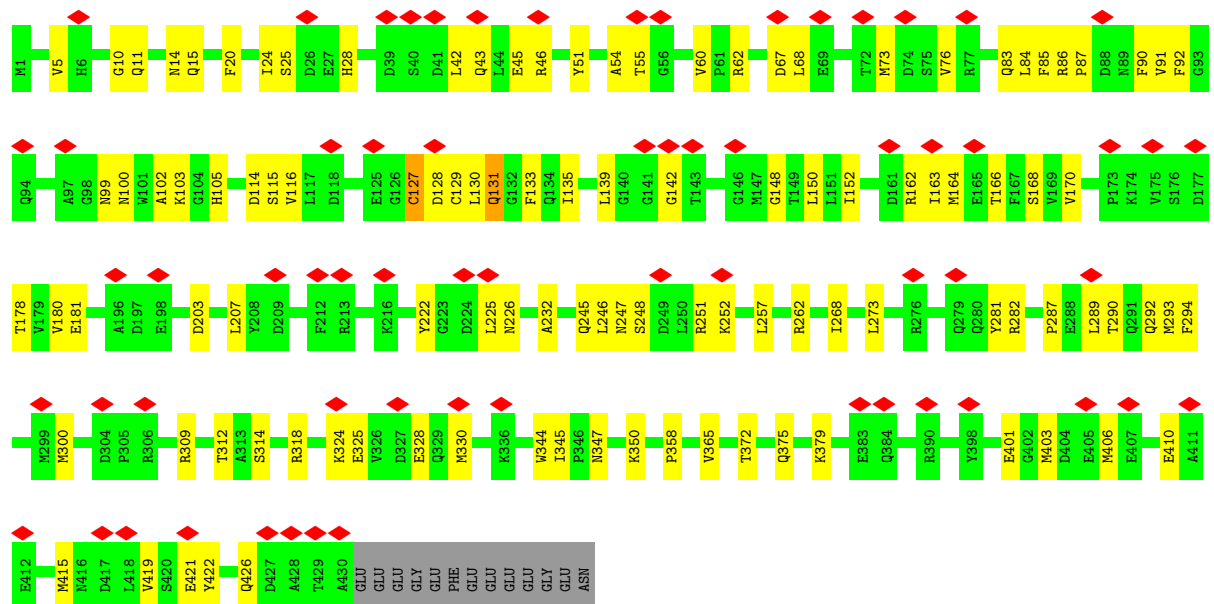
- Molecule 2: Tubulin beta chain

Chain DD: 



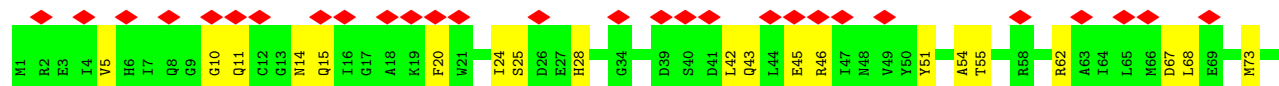
- Molecule 2: Tubulin beta chain

Chain DF: 

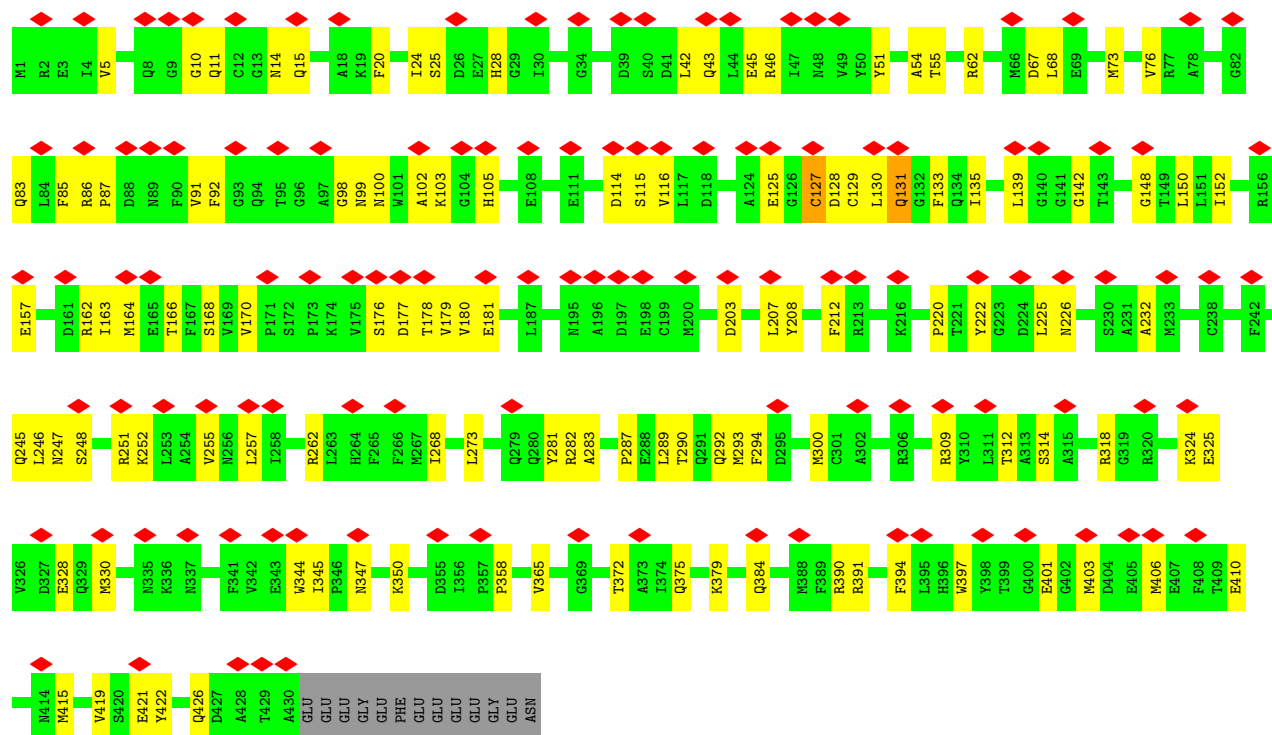
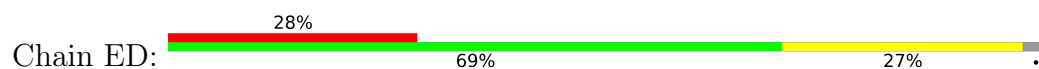


- Molecule 2: Tubulin beta chain

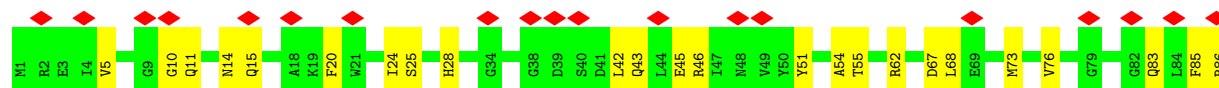
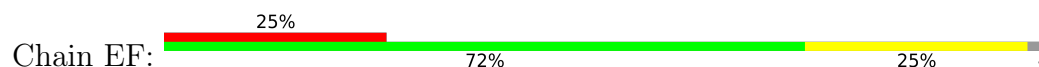
Chain EB: 

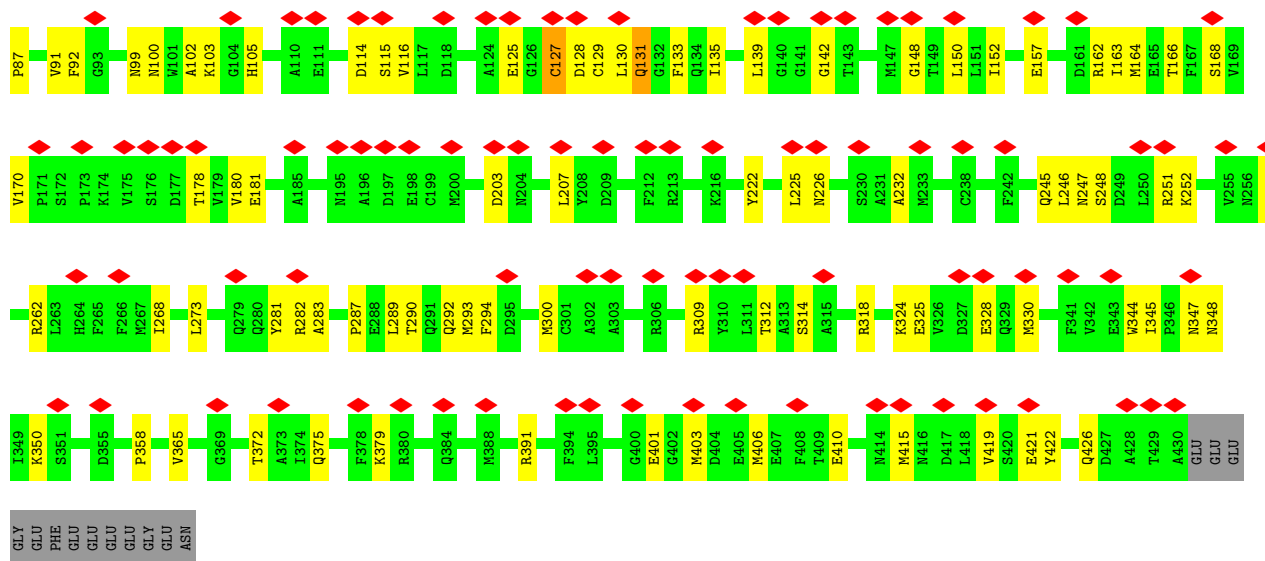


- Molecule 2: Tubulin beta chain

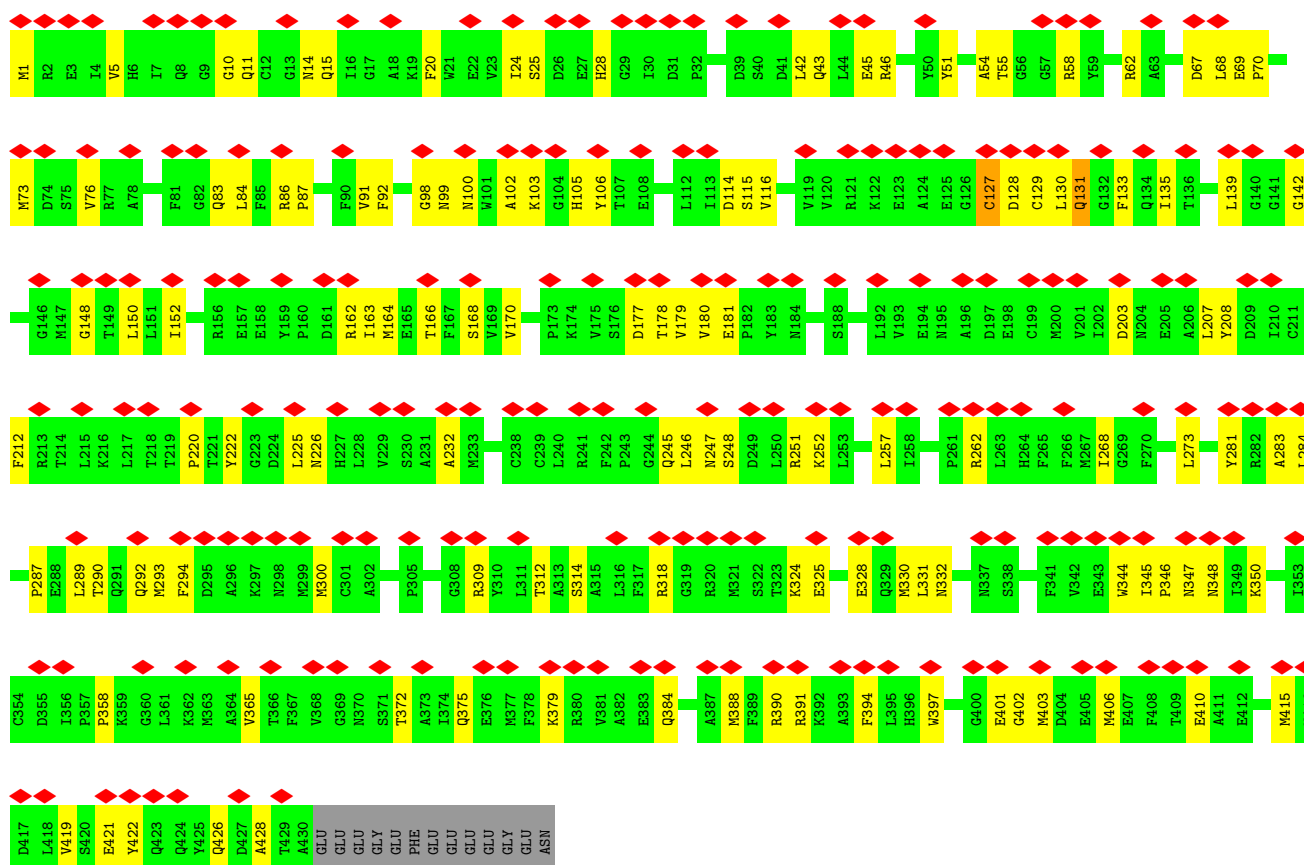


- Molecule 2: Tubulin beta chain



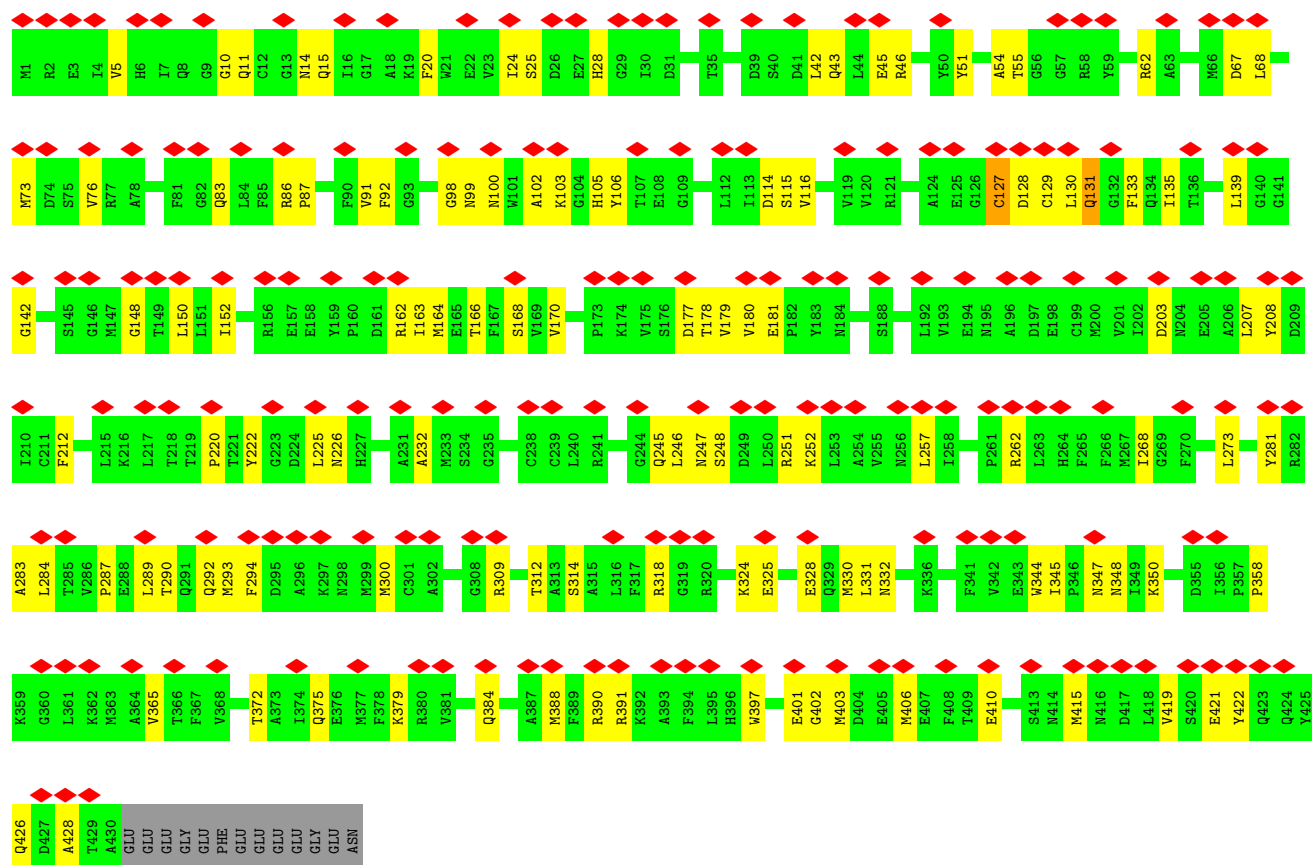


• Molecule 2: Tubulin beta chain

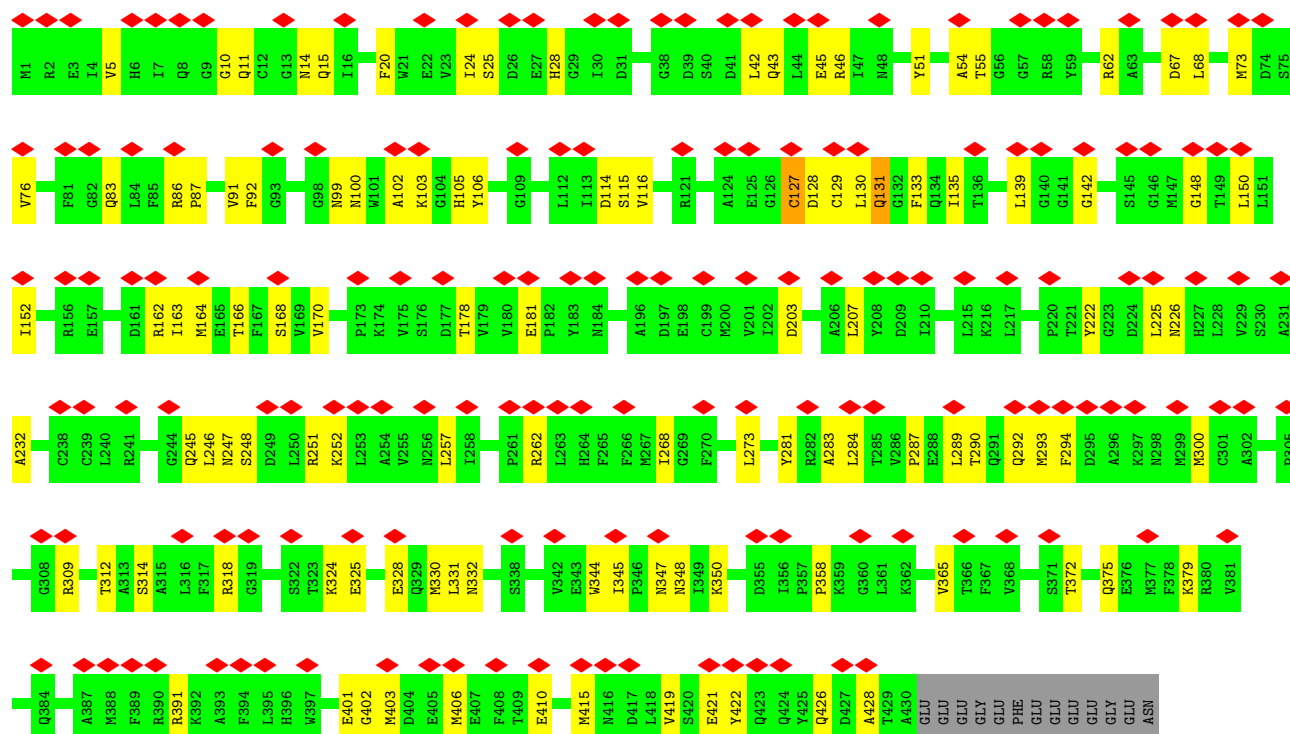
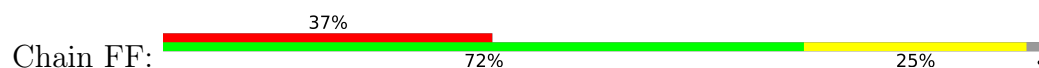


• Molecule 2: Tubulin beta chain

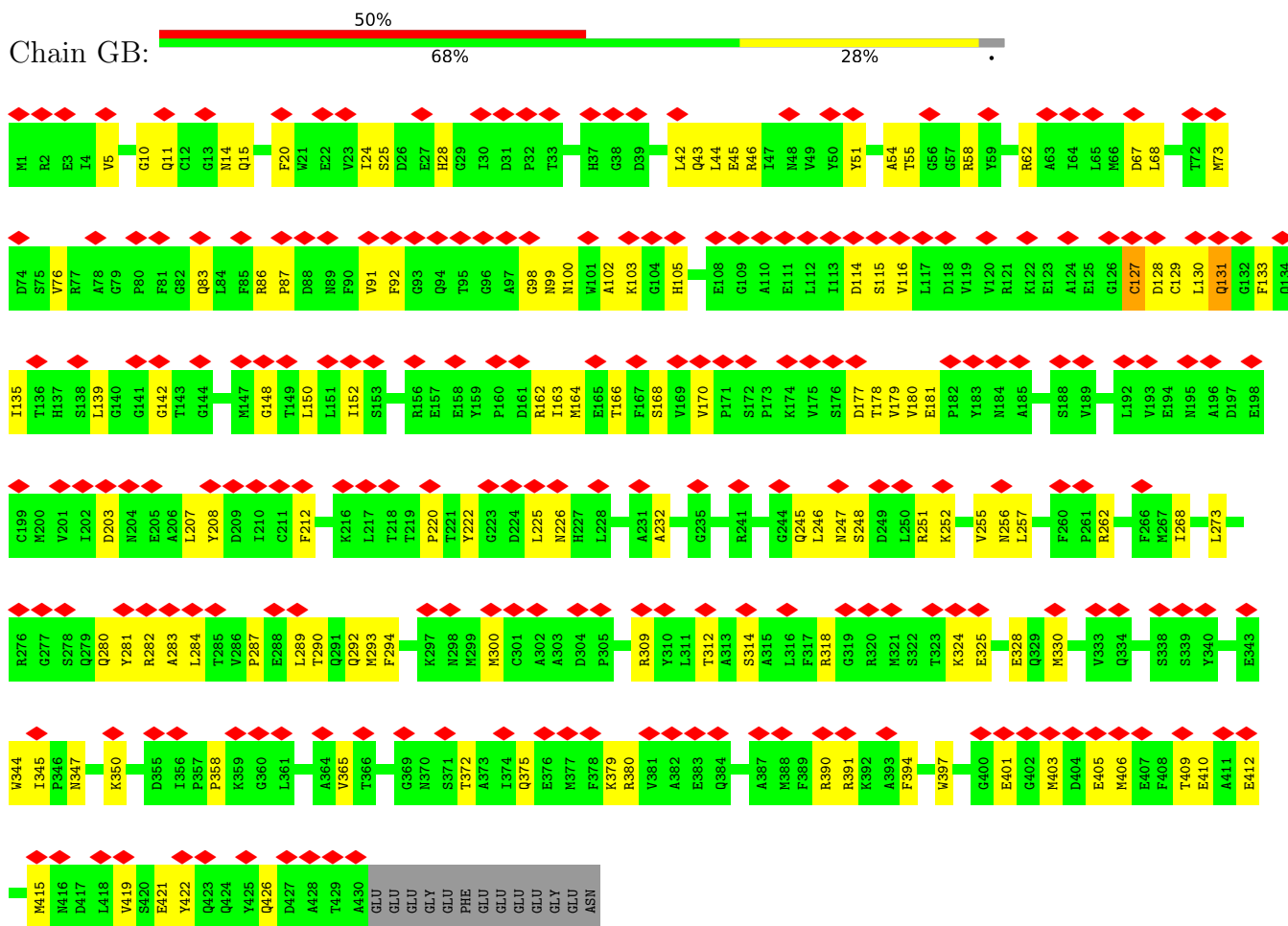


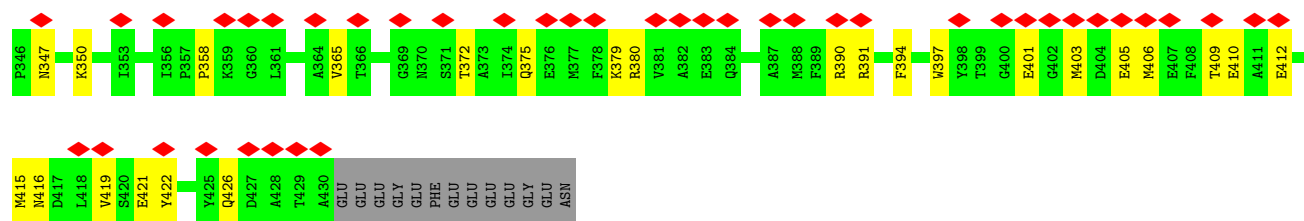


• Molecule 2: Tubulin beta chain

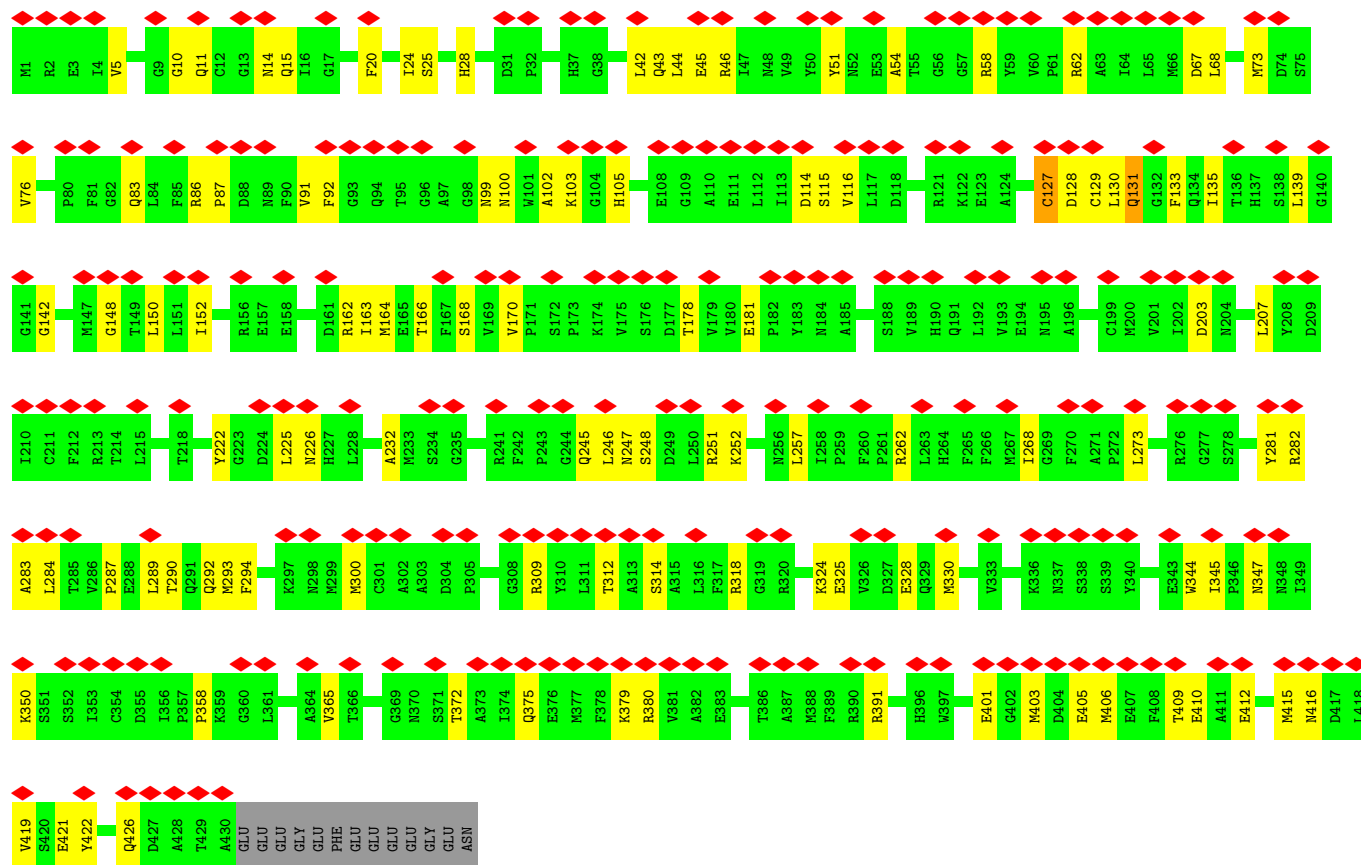
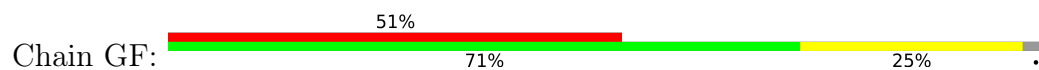


- Molecule 2: Tubulin beta chain

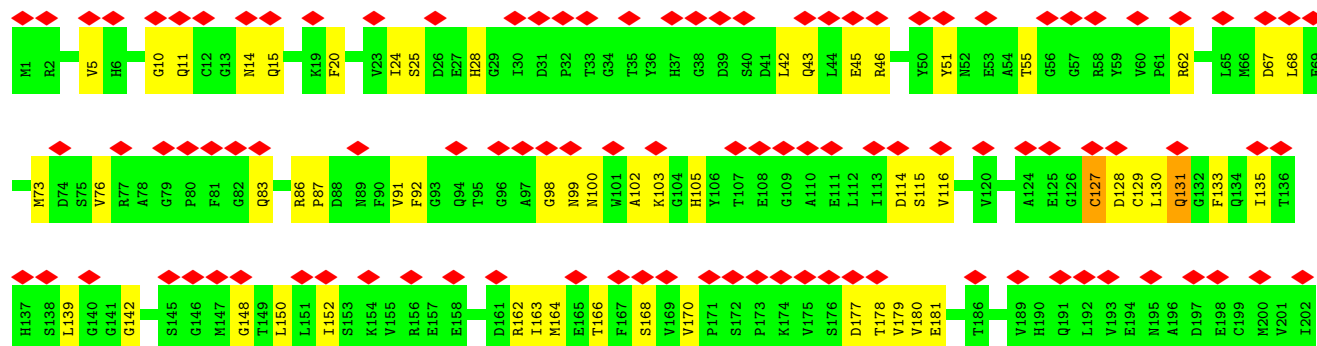
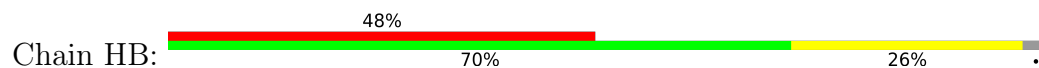


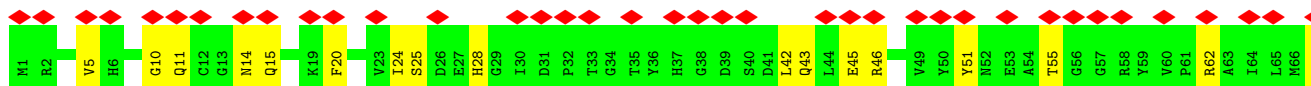


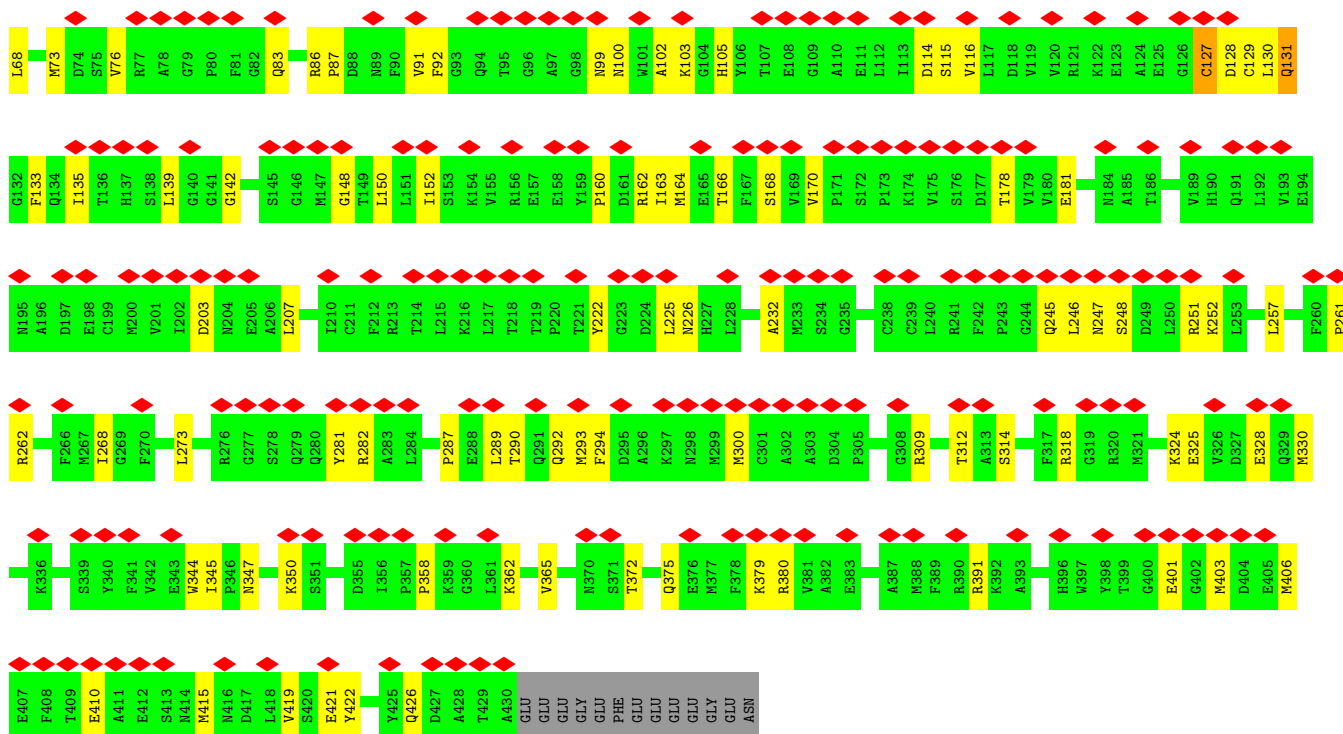
• Molecule 2: Tubulin beta chain



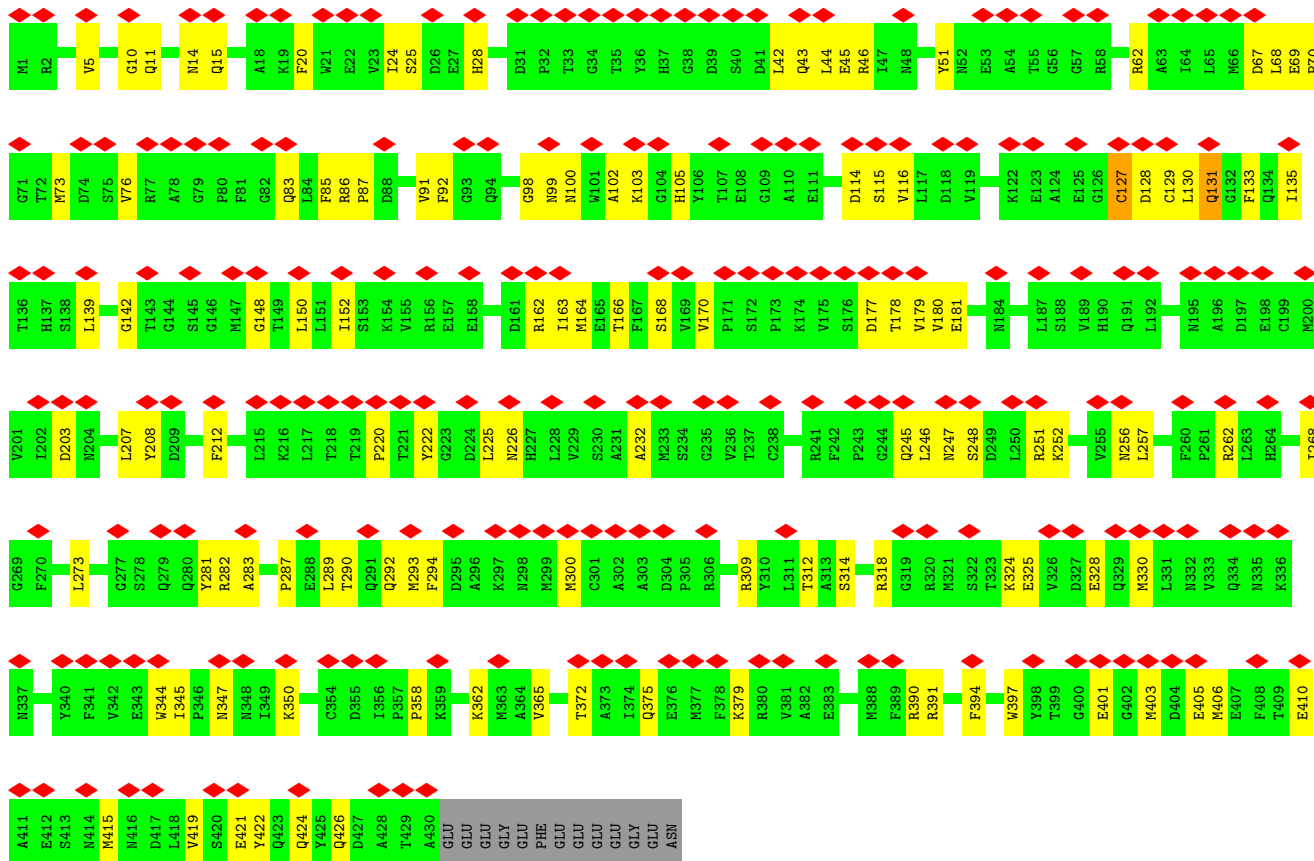
• Molecule 2: Tubulin beta chain



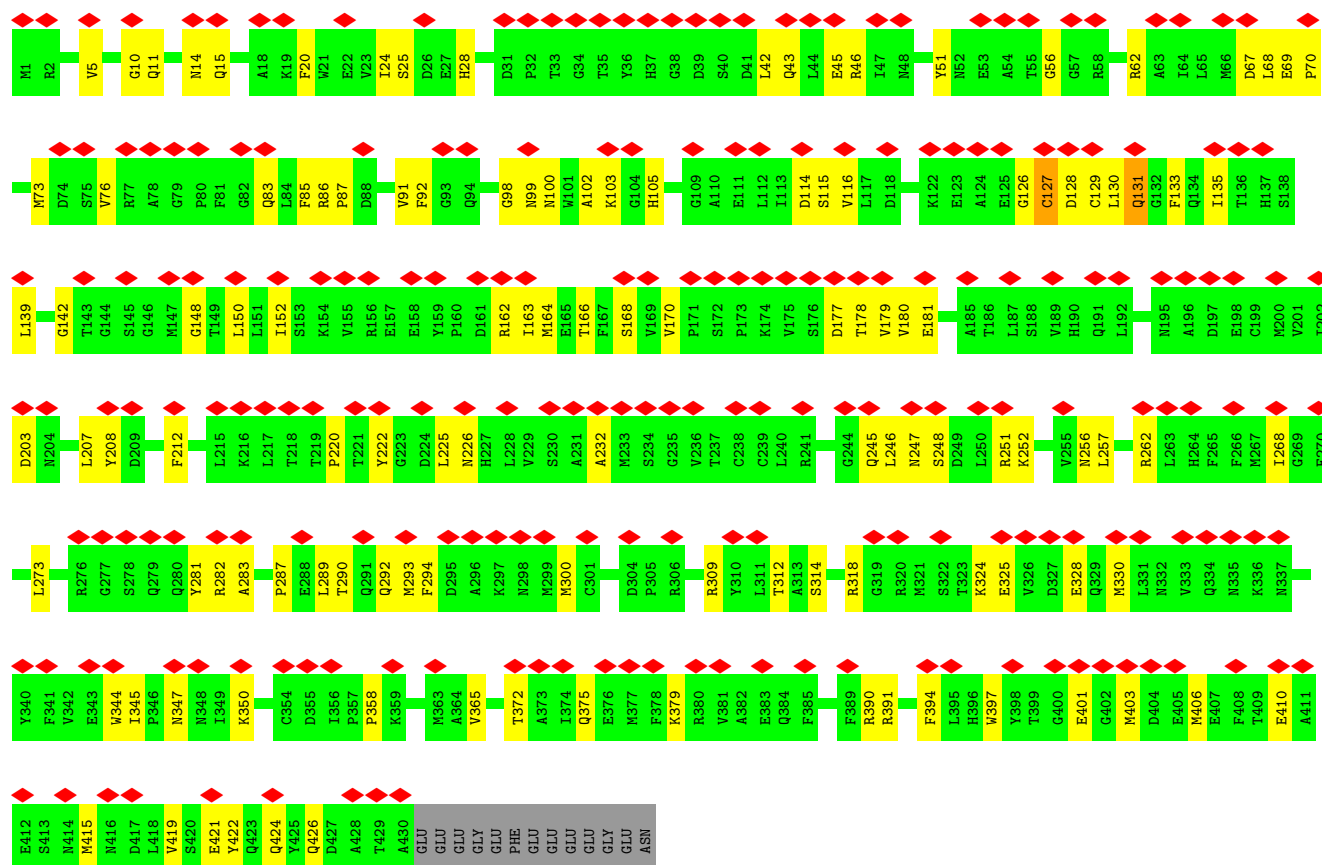
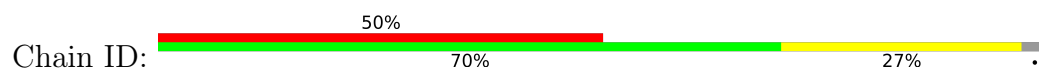




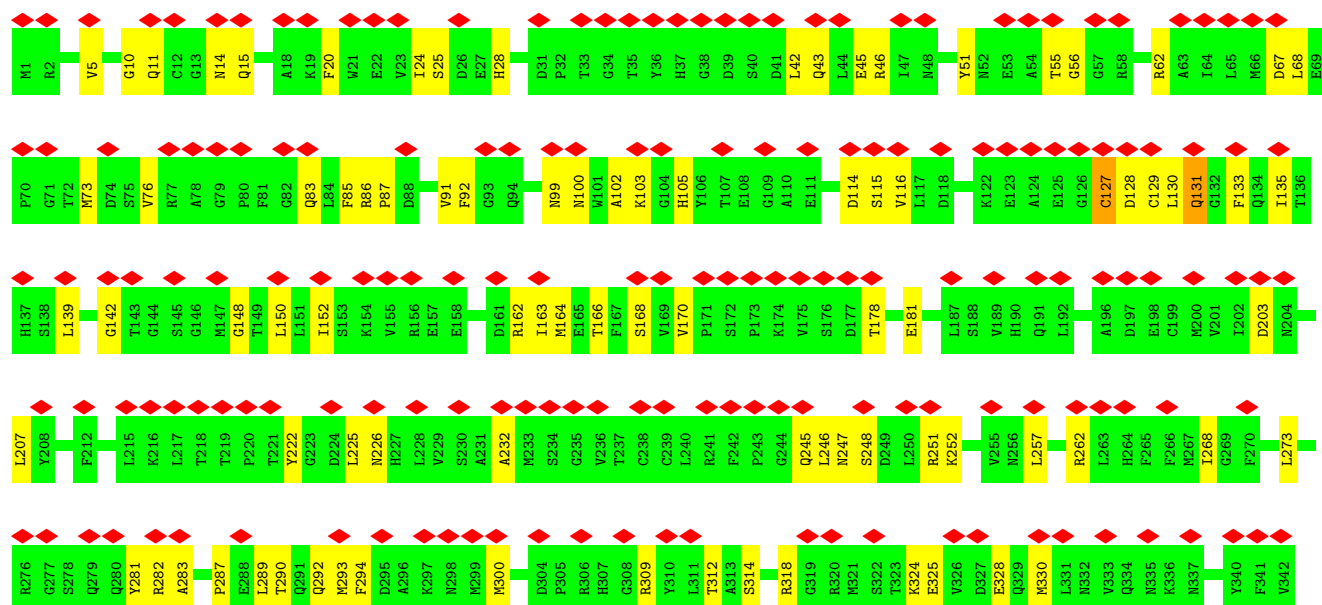
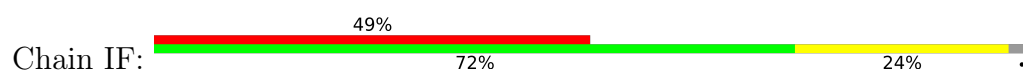
• Molecule 2: Tubulin beta chain

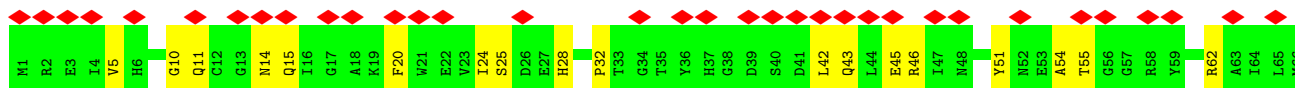


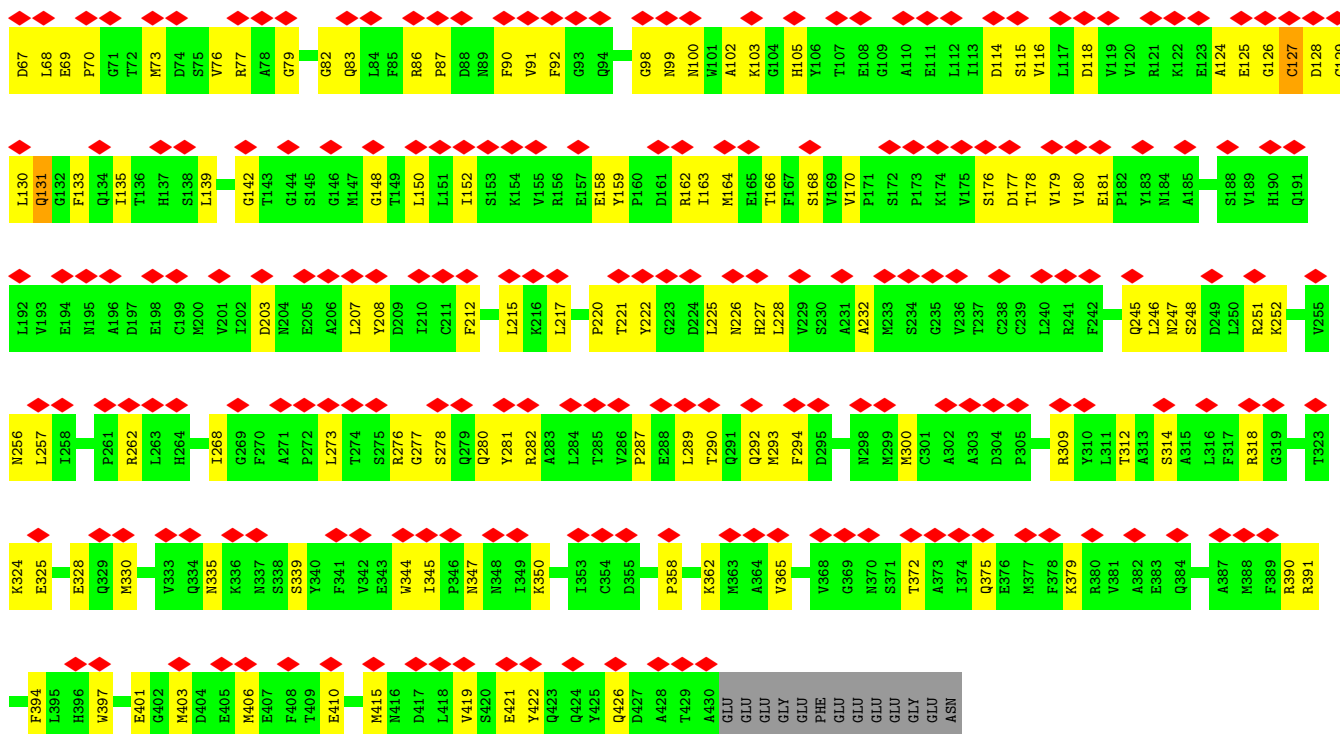
- Molecule 2: Tubulin beta chain



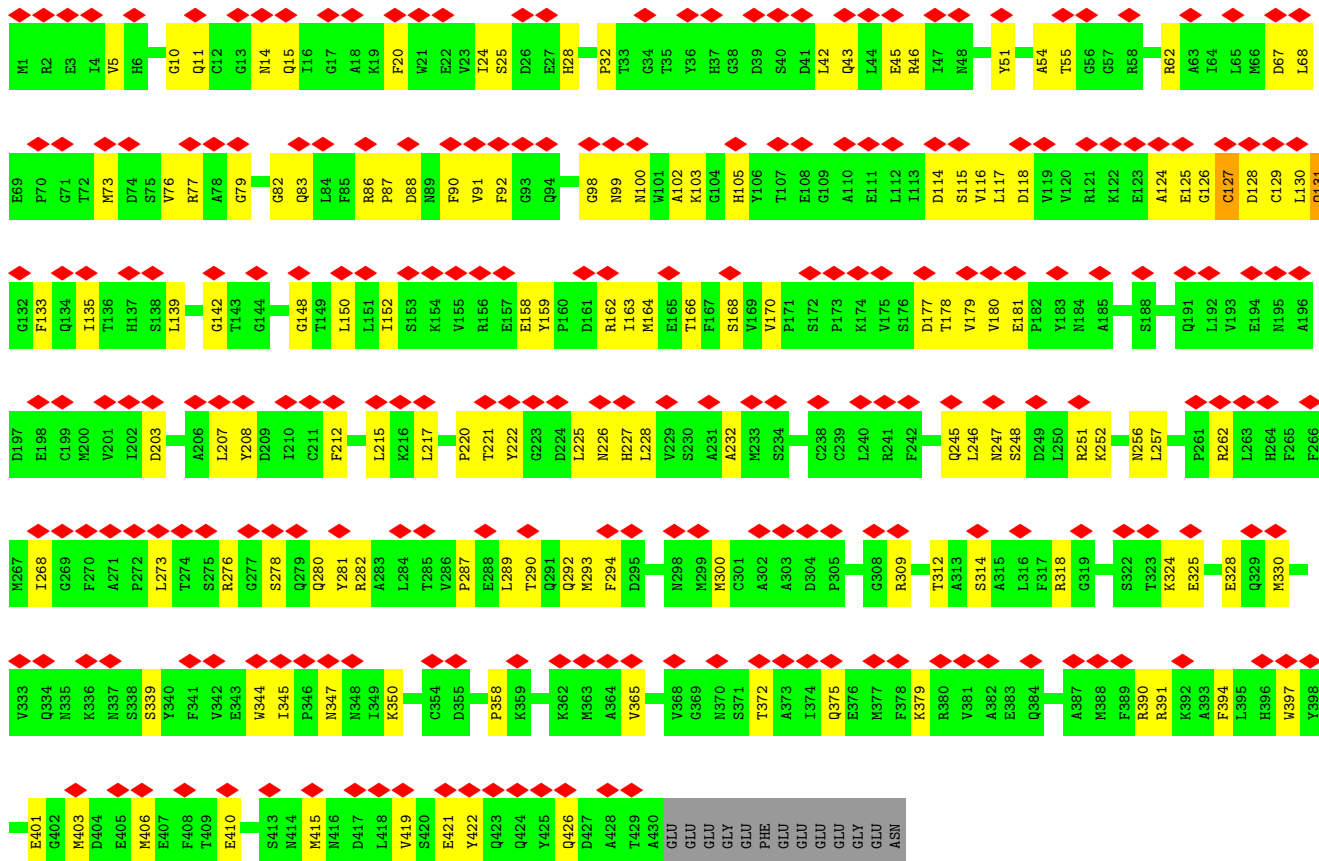
- Molecule 2: Tubulin beta chain

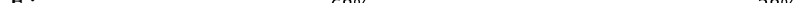


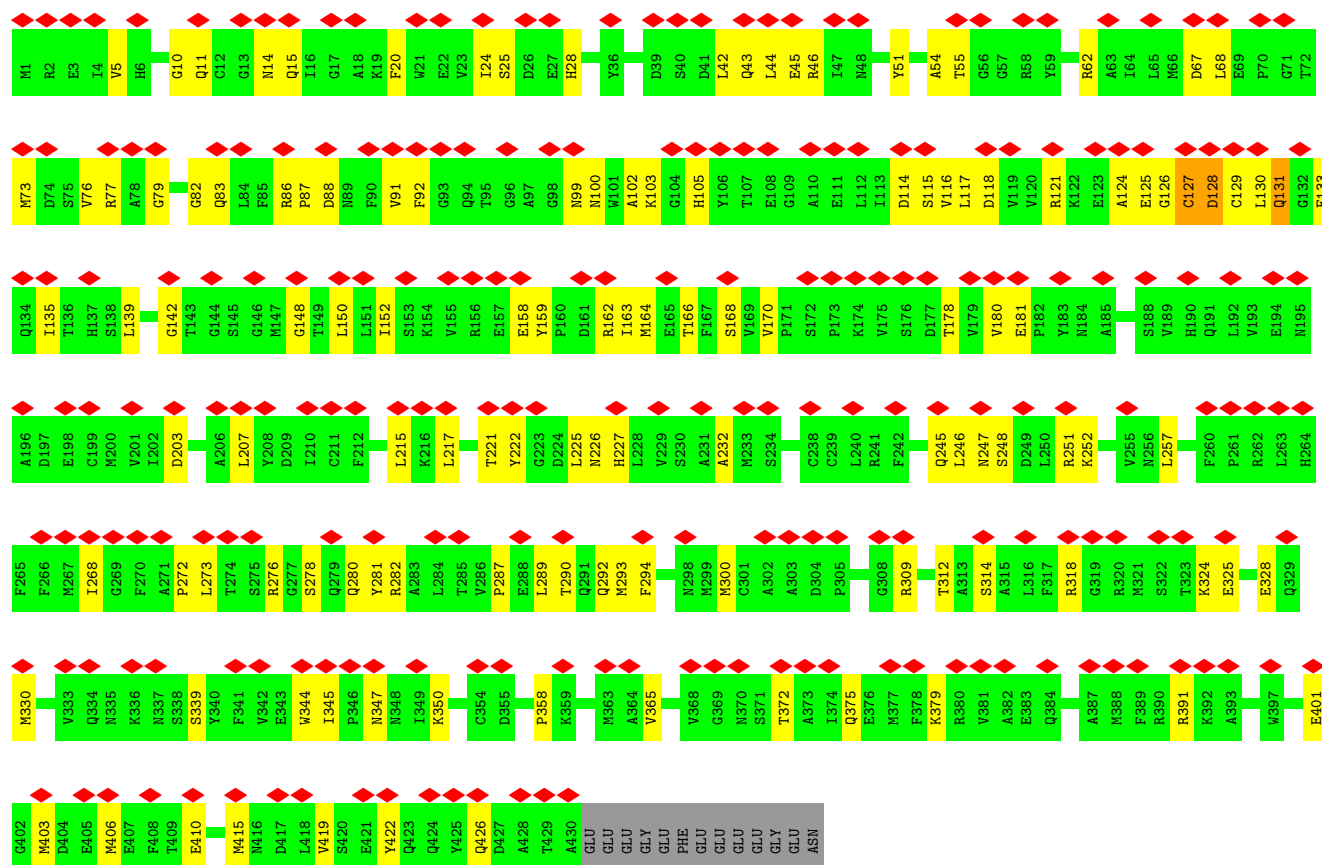


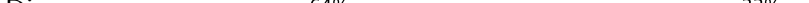


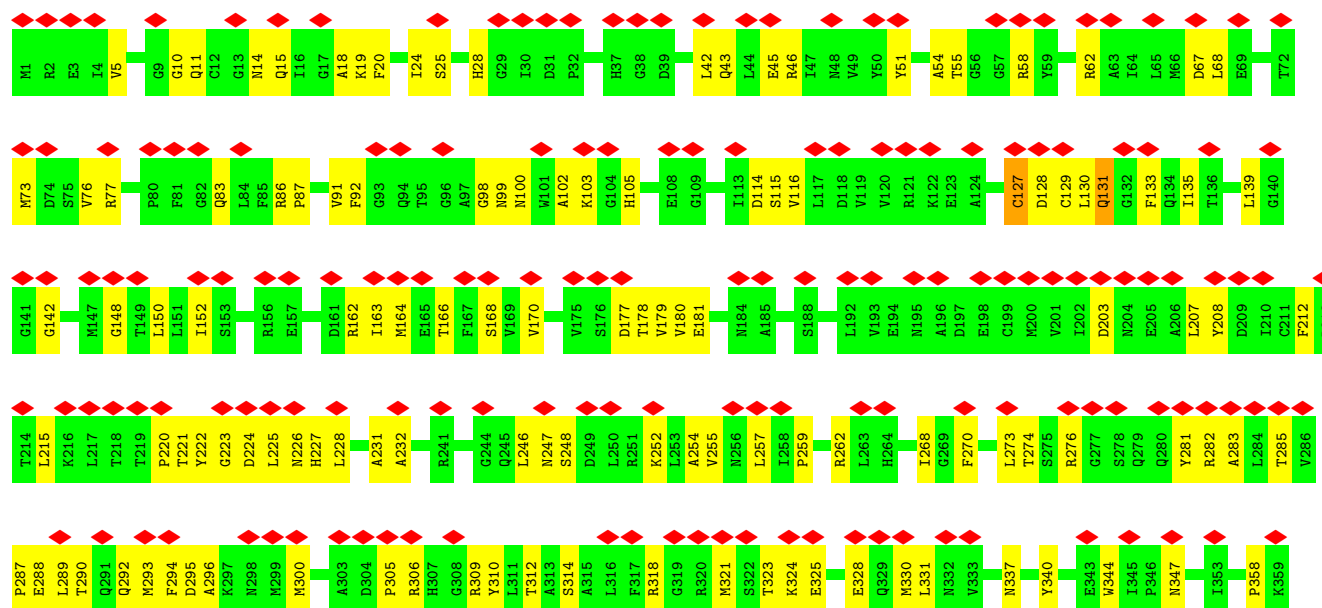
• Molecule 2: Tubulin beta chain



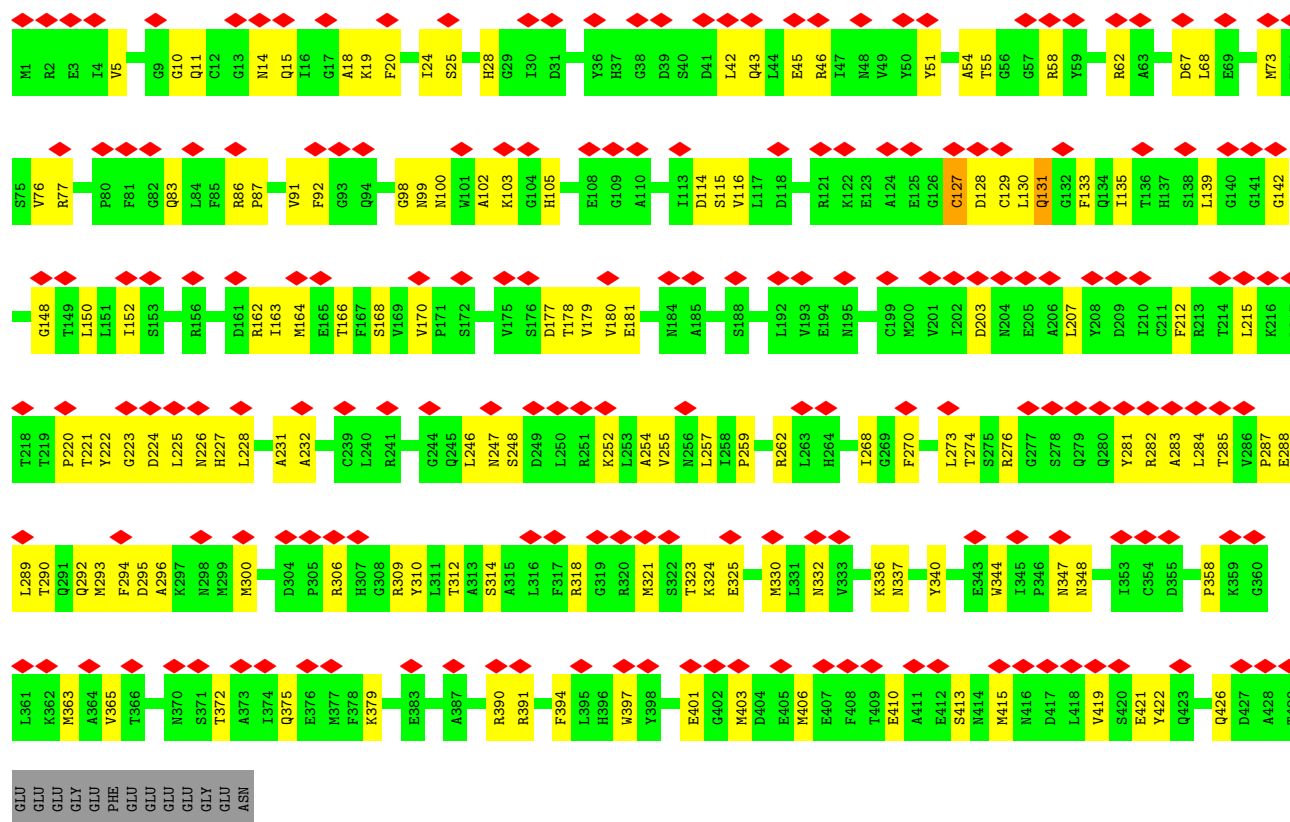
Chain KF:  51% 68% 28%



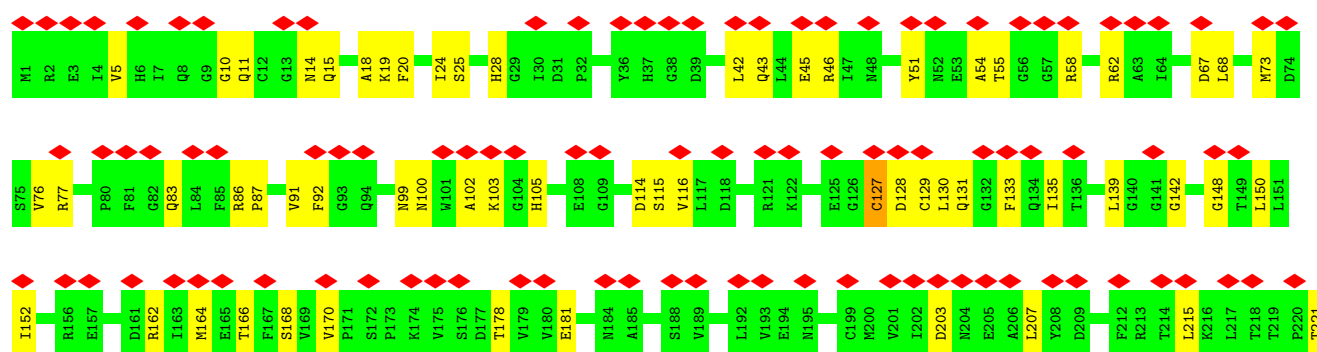
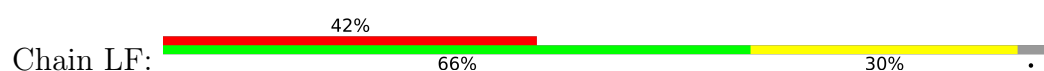
Chain LB:  45% 64% 33%



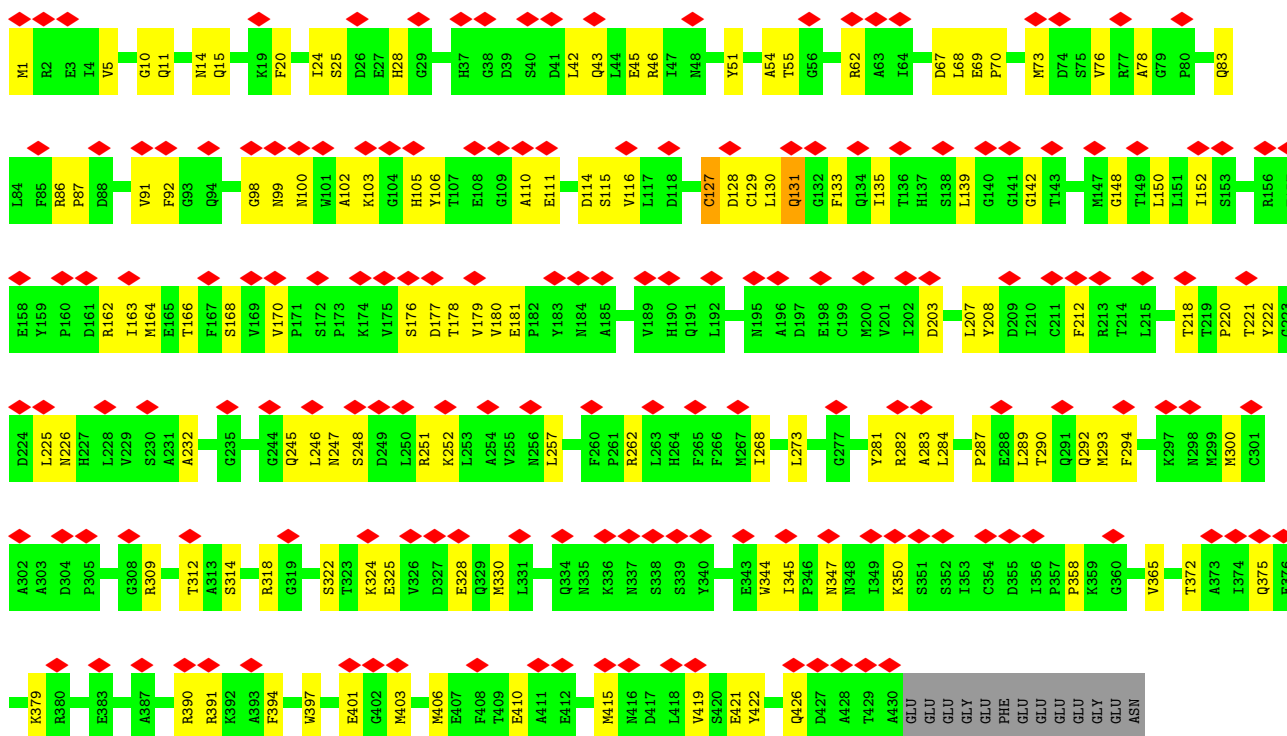
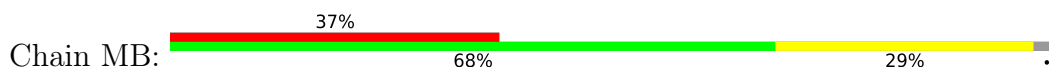
- Molecule 2: Tubulin beta chain



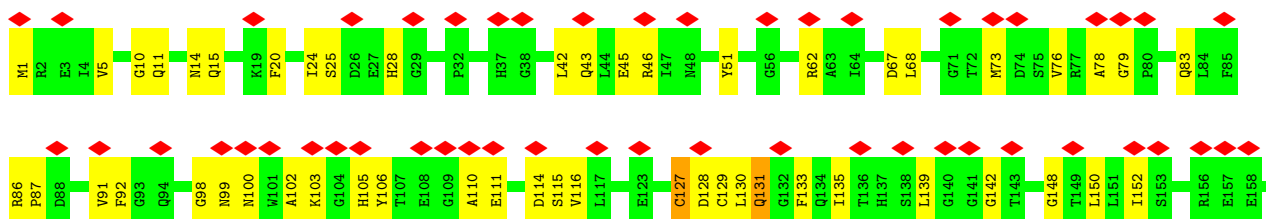
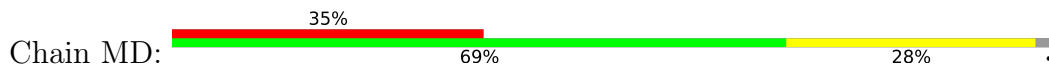
- Molecule 2: Tubulin beta chain

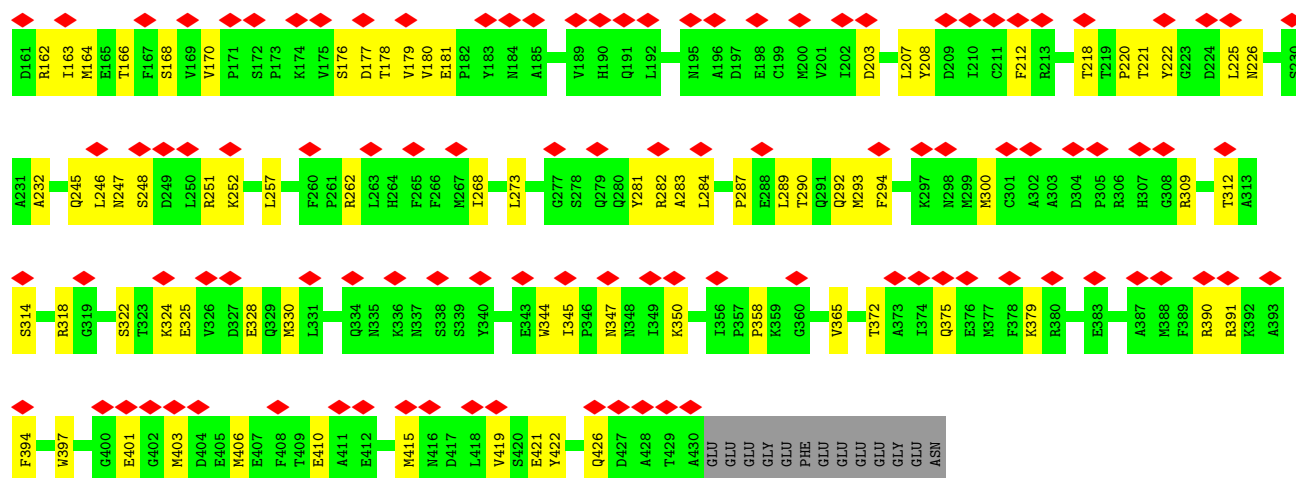


- Molecule 2: Tubulin beta chain

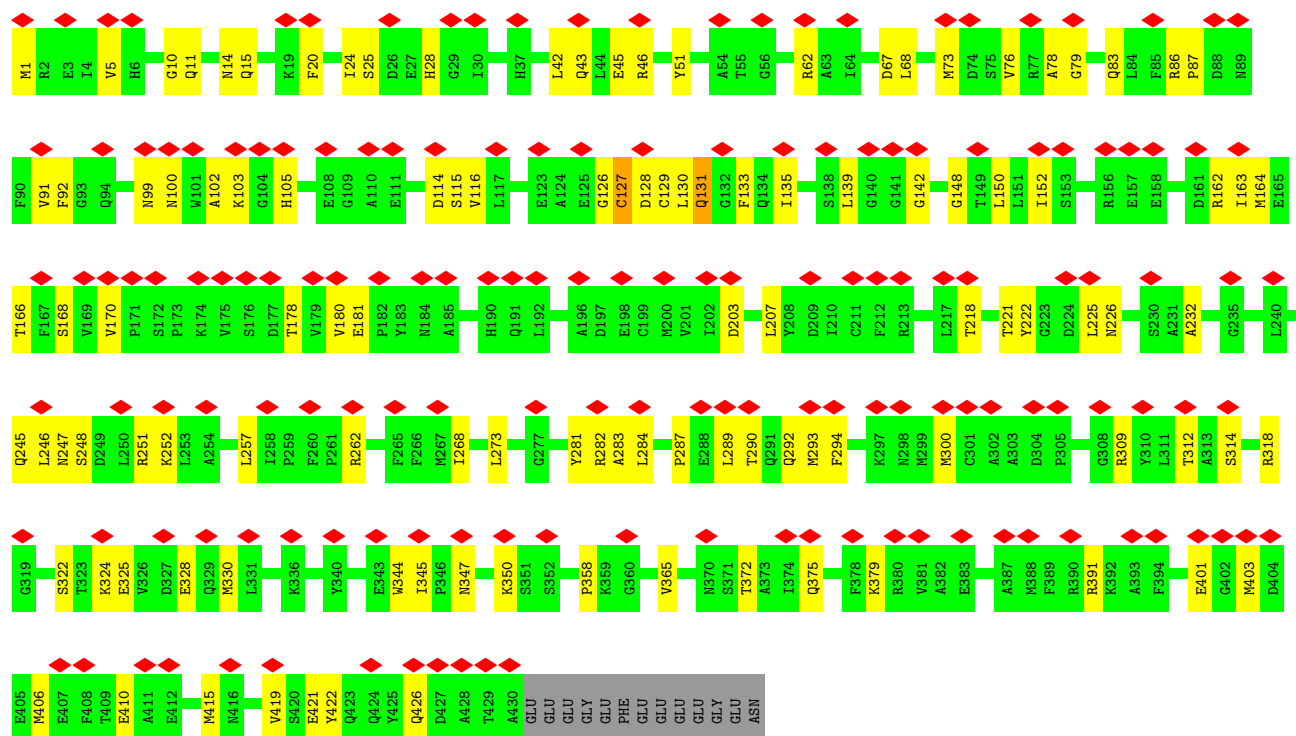
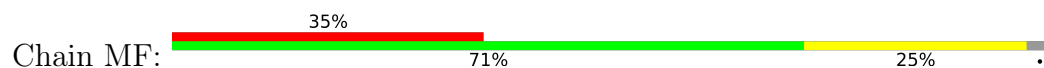


- Molecule 2: Tubulin beta chain

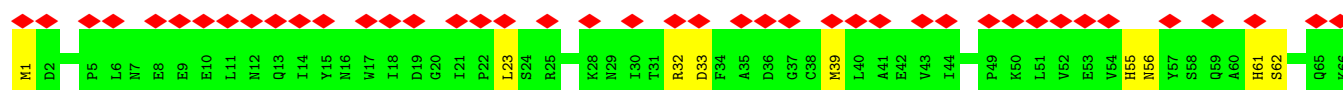


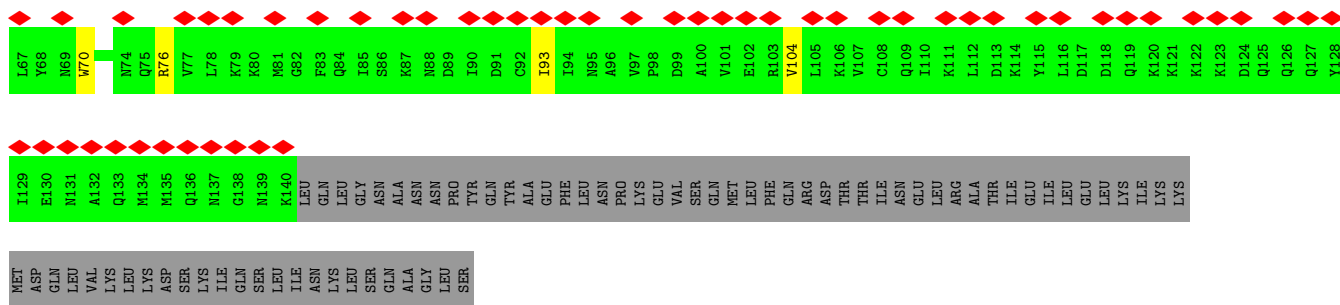


• Molecule 2: Tubulin beta chain

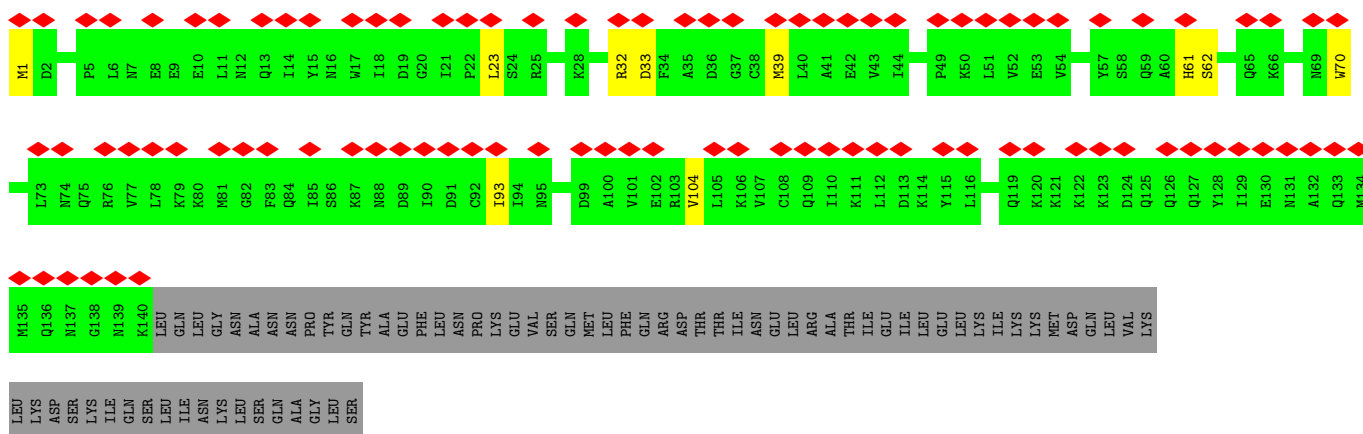


• Molecule 3: Sperm flagellar protein

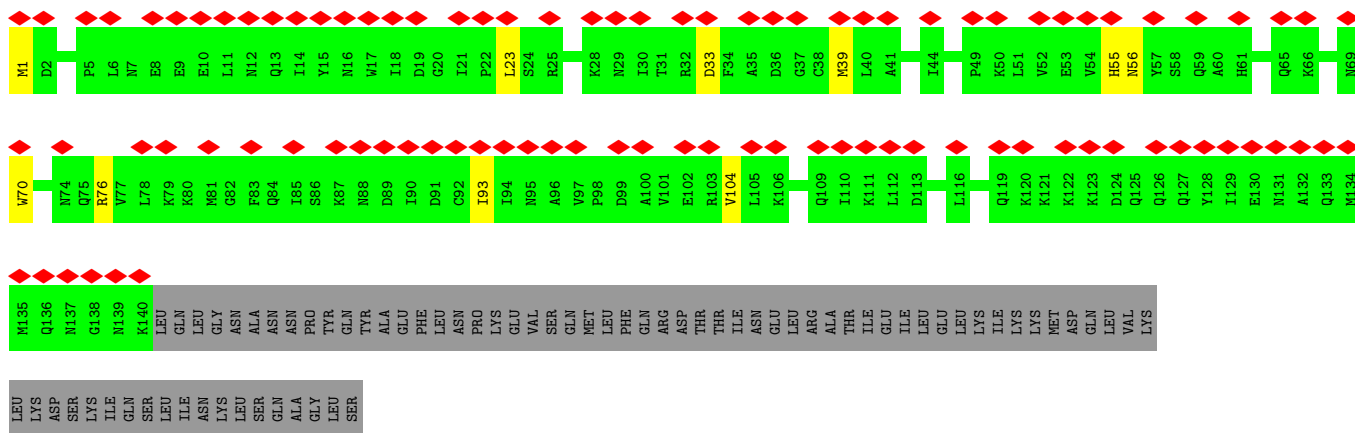




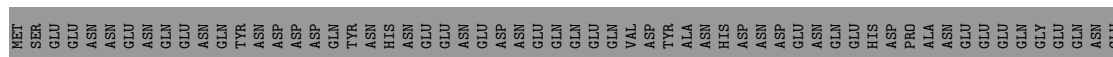
- Molecule 3: Sperm flagellar protein

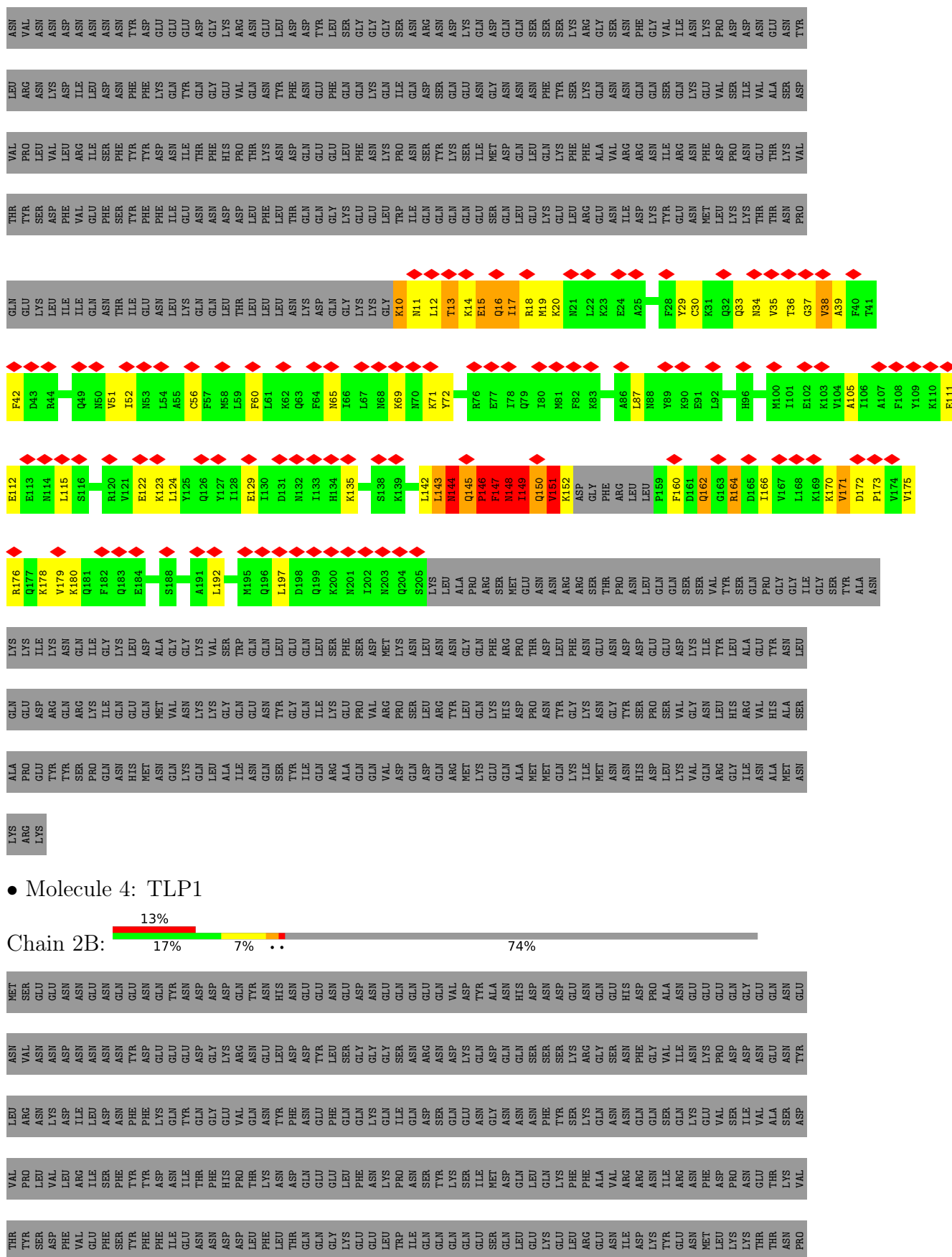


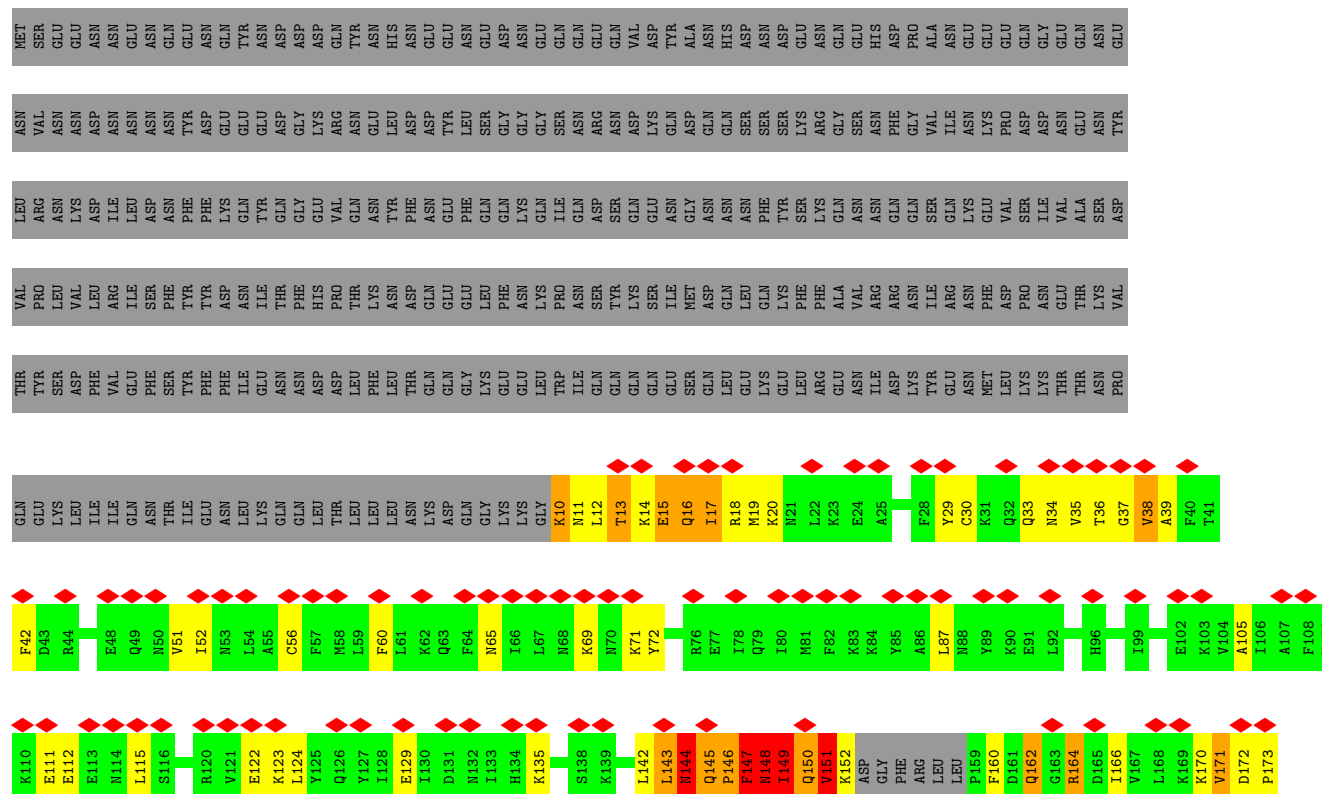
- Molecule 3: Sperm flagellar protein

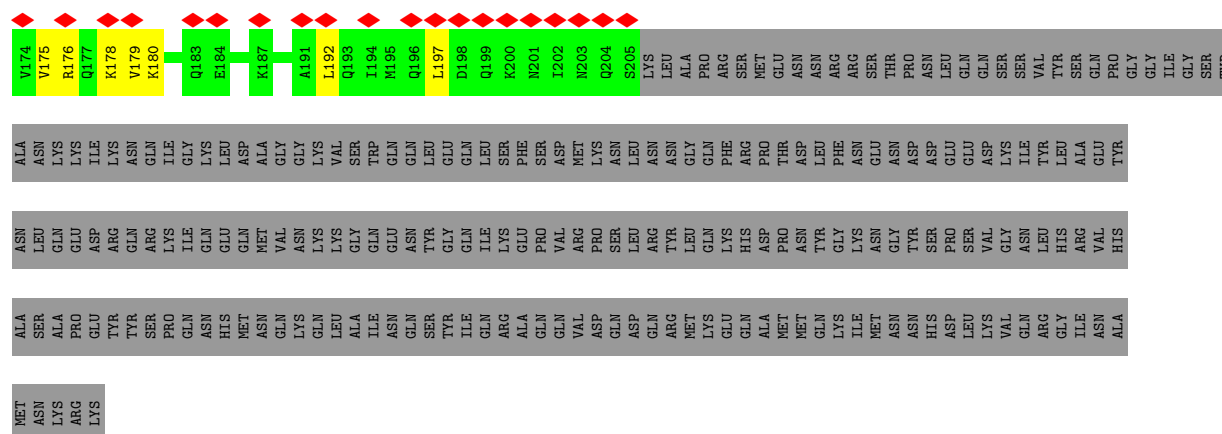


- Molecule 4: TLP1

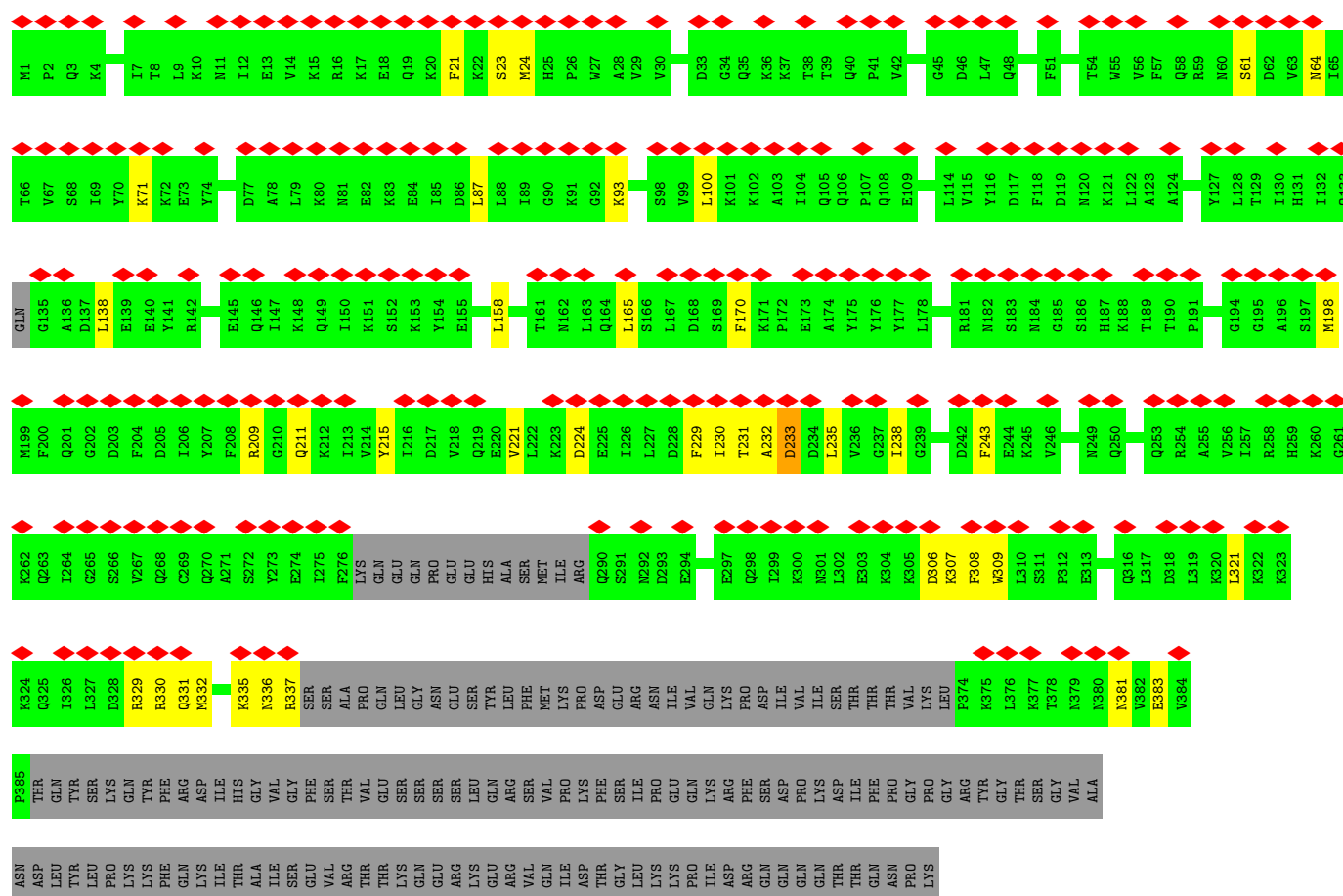






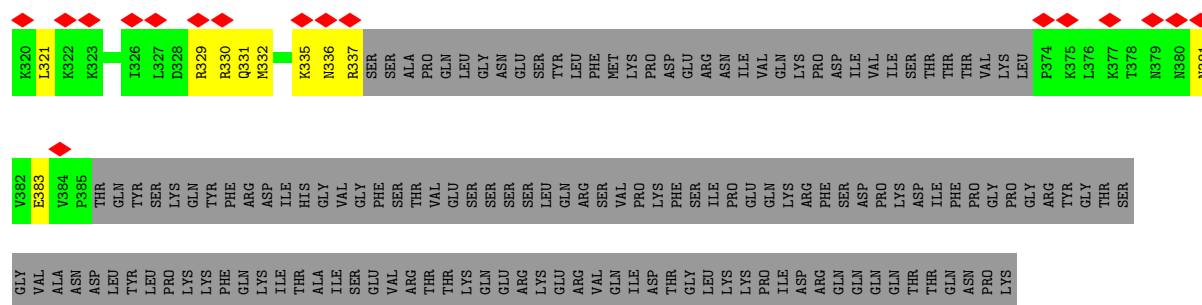


• Molecule 5: C2 domain protein

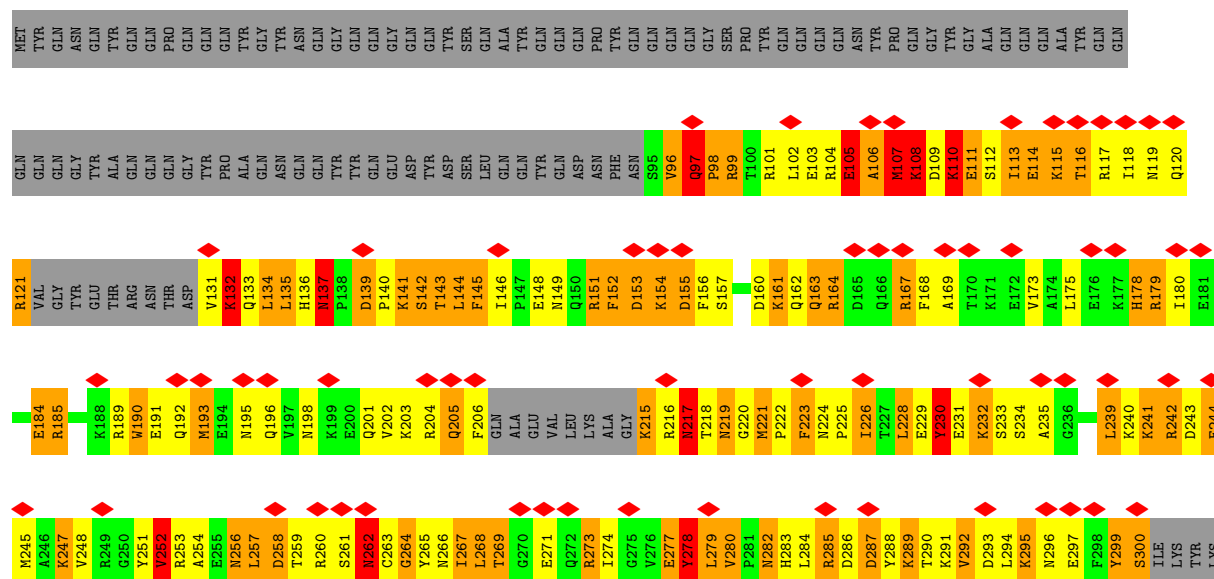


• Molecule 5: C2 domain protein

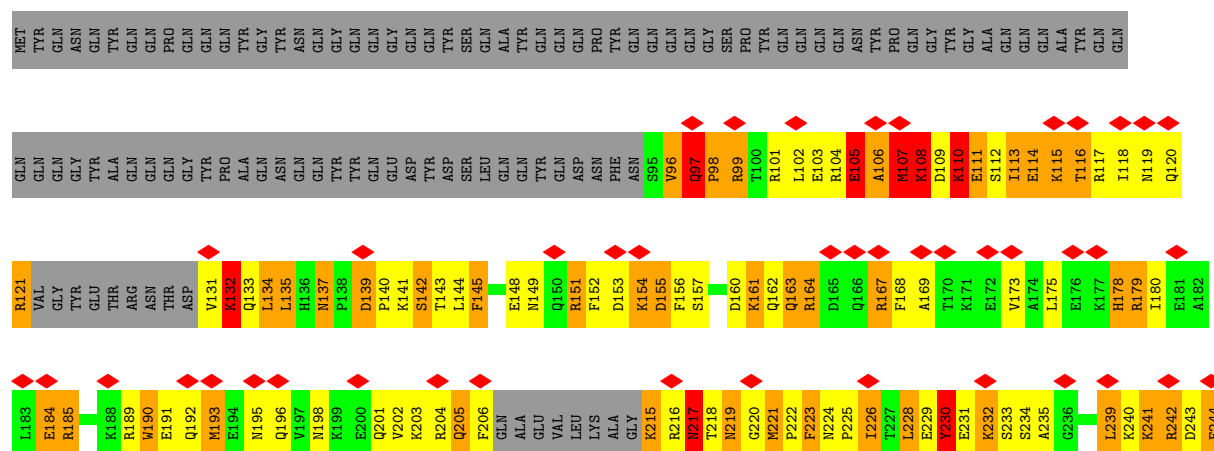


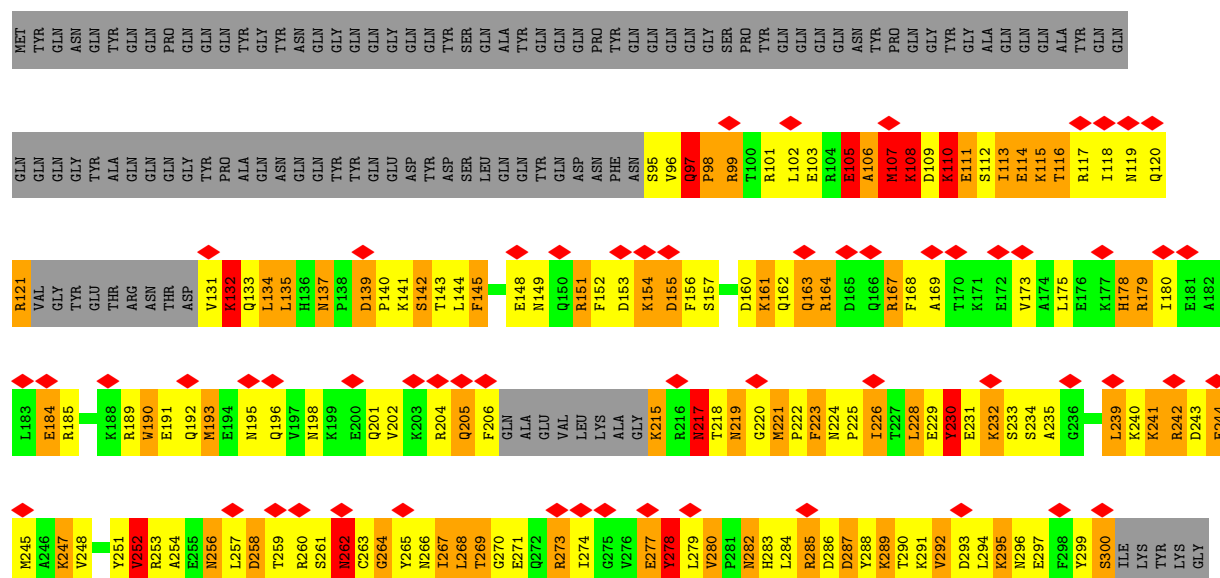
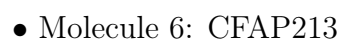
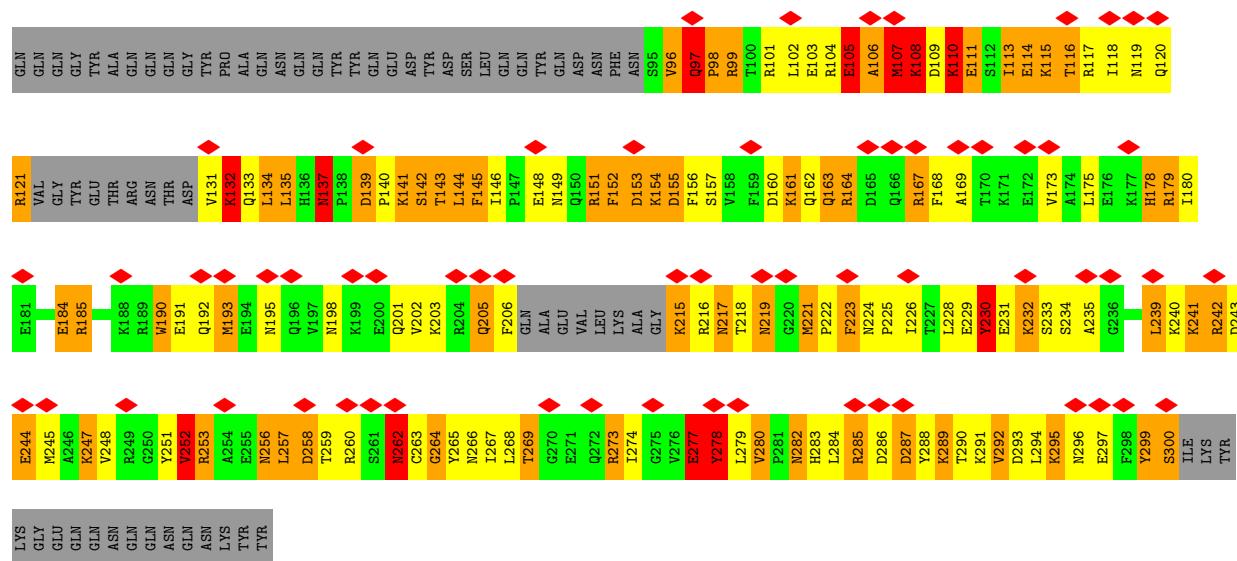
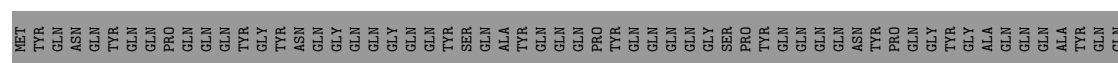
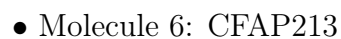


• Molecule 6: CFAP213



• Molecule 6: CFAP213

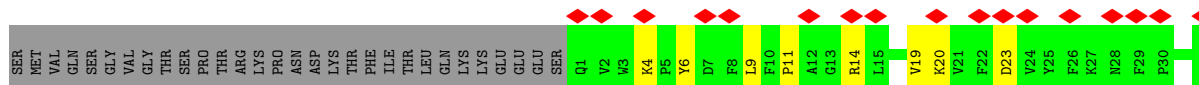


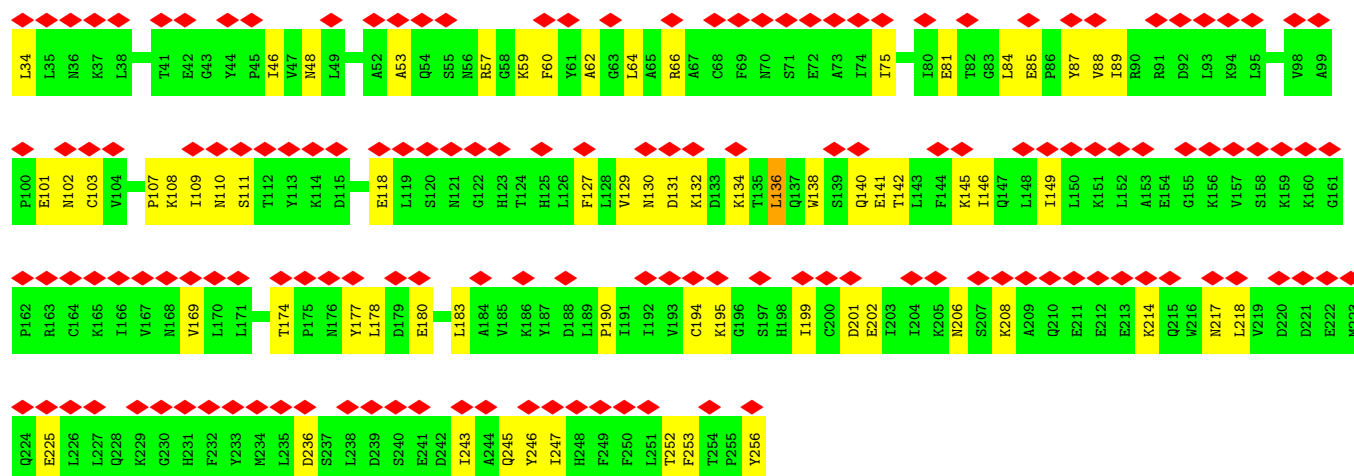




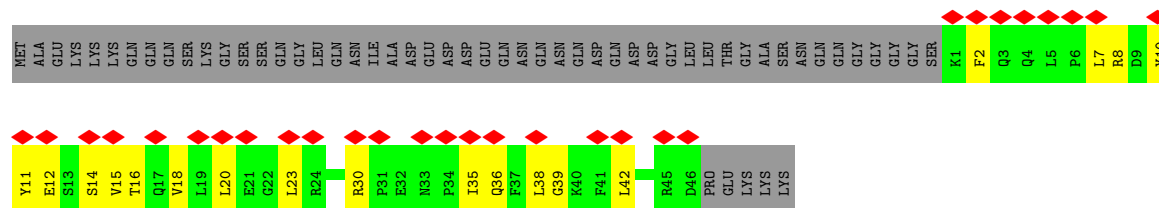
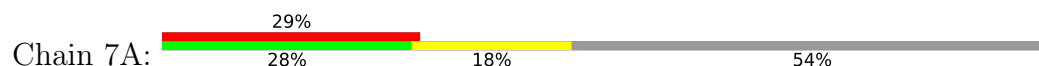




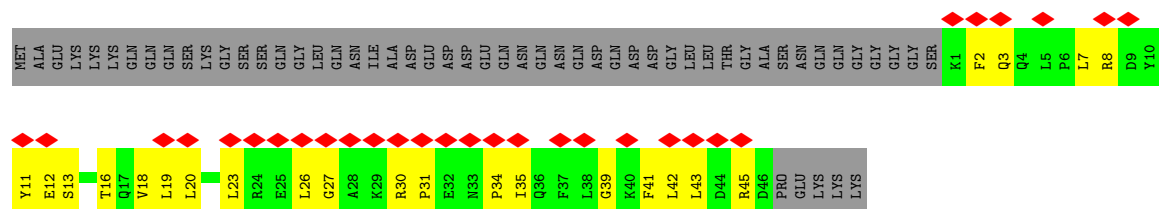




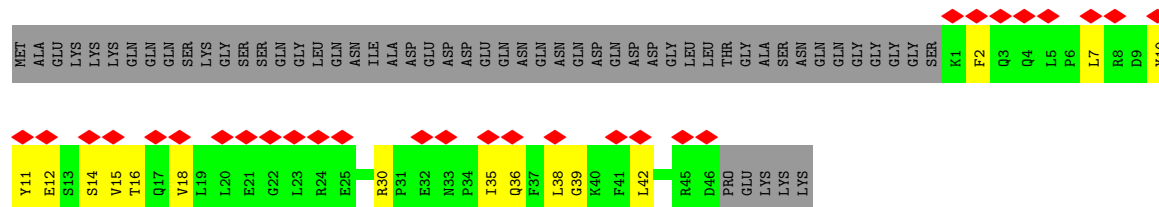
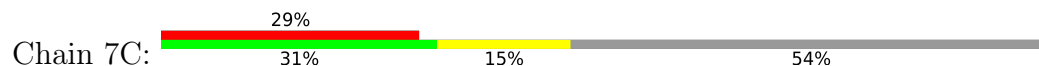
• Molecule 9: Dpy-30 motif protein



• Molecule 9: Dpy-30 motif protein



• Molecule 9: Dpy-30 motif protein



• Molecule 9: Dpy-30 motif protein

Chain 7D:

Chain 7E:

Chain 7F:

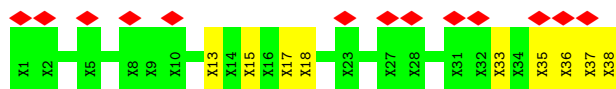
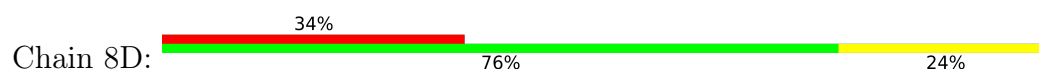
Chain 8A:

Chain 8B:

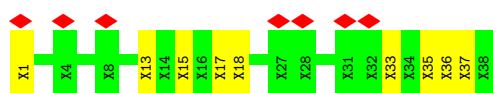
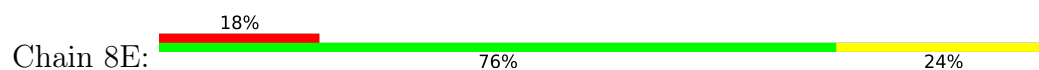
Chain 8C:



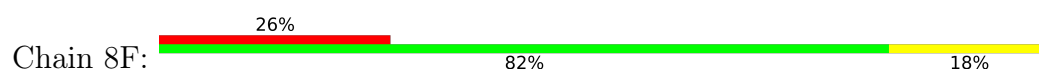
- Molecule 10: Unknown



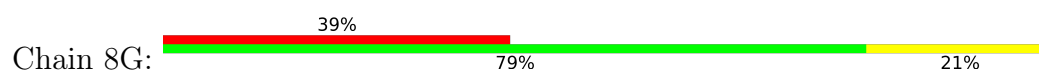
- Molecule 10: Unknown



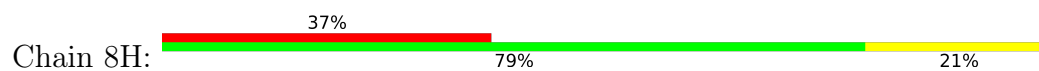
- Molecule 10: Unknown



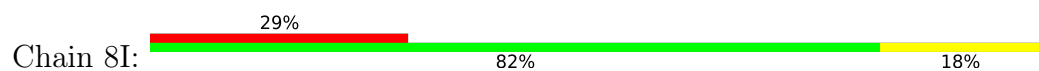
- Molecule 10: Unknown



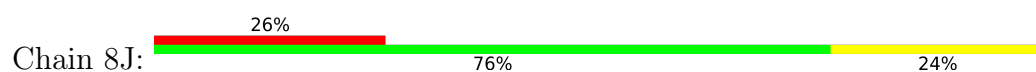
- Molecule 10: Unknown



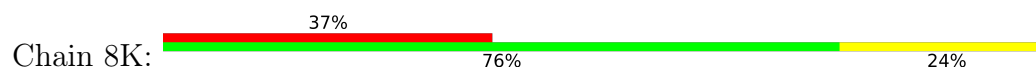
- Molecule 10: Unknown



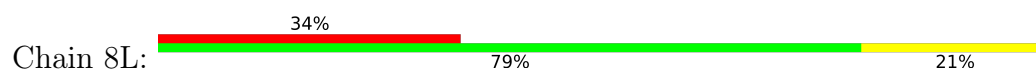
- Molecule 10: Unknown



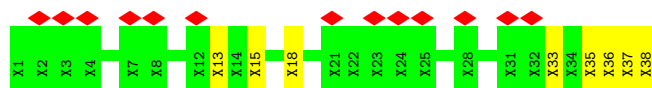
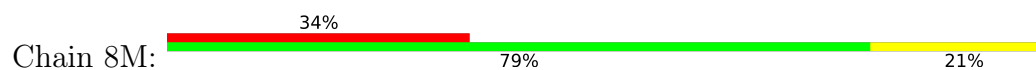
• Molecule 10: Unknown



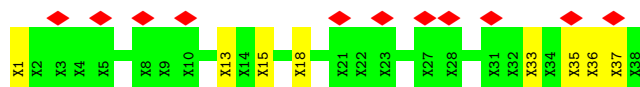
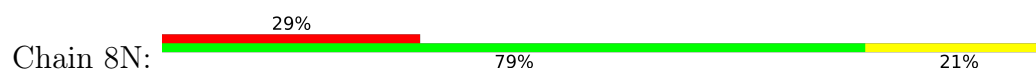
• Molecule 10: Unknown



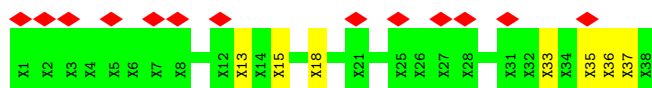
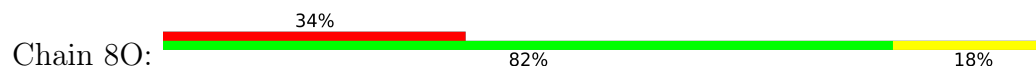
• Molecule 10: Unknown



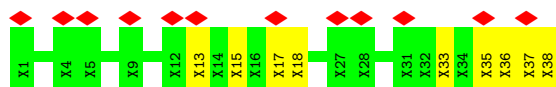
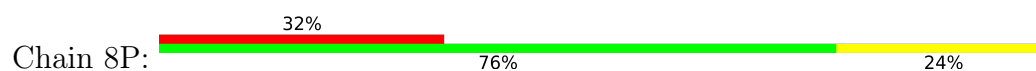
• Molecule 10: Unknown



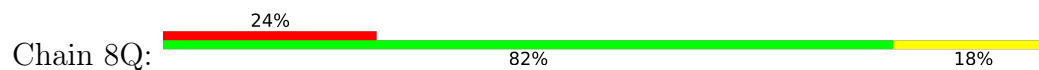
• Molecule 10: Unknown



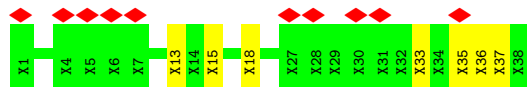
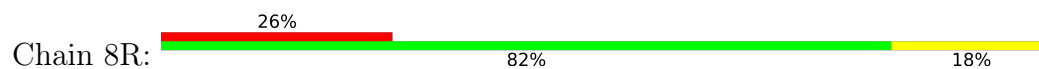
• Molecule 10: Unknown



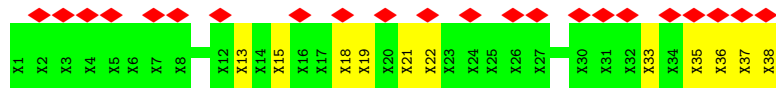
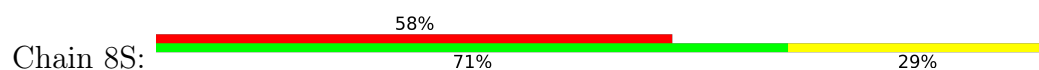
• Molecule 10: Unknown



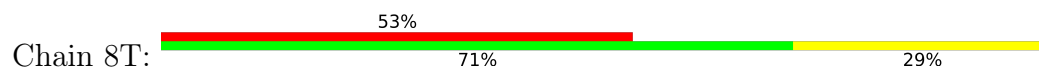
• Molecule 10: Unknown



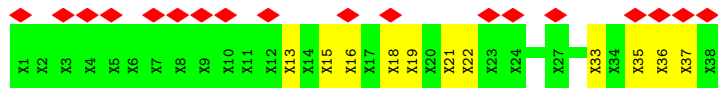
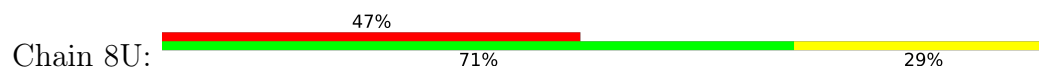
• Molecule 10: Unknown



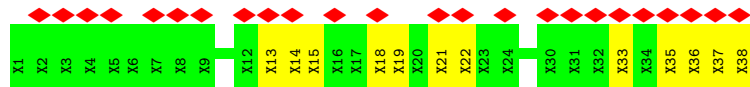
• Molecule 10: Unknown



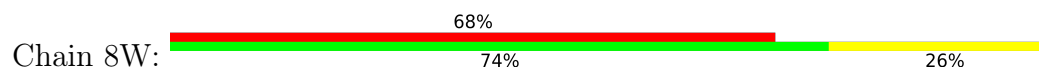
• Molecule 10: Unknown



• Molecule 10: Unknown

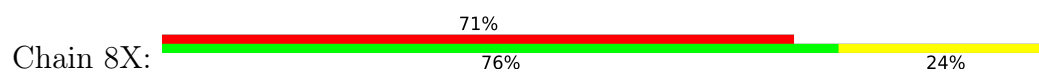


• Molecule 10: Unknown

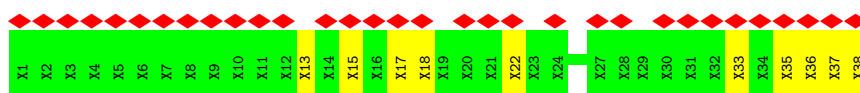
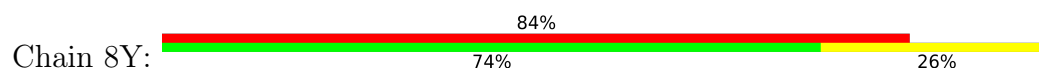




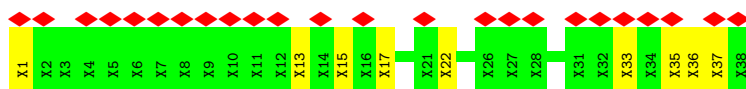
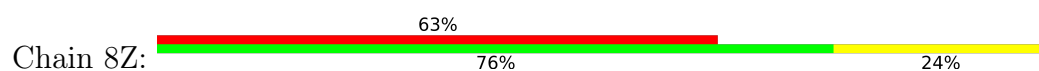
• Molecule 10: Unknown



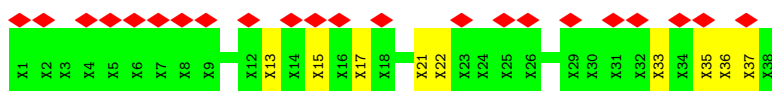
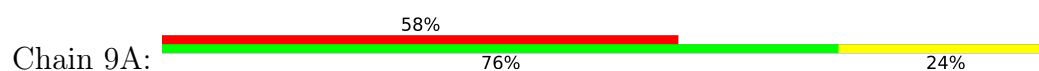
• Molecule 10: Unknown



• Molecule 10: Unknown



• Molecule 10: Unknown



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	66174	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	45	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	2.798	Depositor
Minimum map value	-0.007	Depositor
Average map value	0.006	Depositor
Map value standard deviation	0.056	Depositor
Recommended contour level	0.17	Depositor
Map size (Å)	931.6, 931.6, 931.6	wwPDB
Map dimensions	680, 680, 680	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.37, 1.37, 1.37	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG, GTP, 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	AA	0.19	0/3421	0.45	0/4636
1	AC	0.19	0/3421	0.45	0/4636
1	AE	0.19	0/3421	0.45	0/4636
1	BA	0.19	0/3421	0.45	0/4636
1	BC	0.19	0/3421	0.45	0/4636
1	BE	0.19	0/3421	0.45	0/4636
1	CA	0.19	0/3421	0.45	0/4636
1	CC	0.19	0/3421	0.45	0/4636
1	CE	0.19	0/3421	0.45	0/4636
1	DA	0.19	0/3421	0.45	0/4636
1	DC	0.19	0/3421	0.45	0/4636
1	DE	0.19	0/3421	0.45	0/4636
1	EA	0.19	0/3421	0.45	0/4636
1	EC	0.19	0/3421	0.45	0/4636
1	EE	0.19	0/3421	0.45	0/4636
1	FA	0.19	0/3421	0.45	0/4636
1	FC	0.19	0/3421	0.45	0/4636
1	FE	0.19	0/3421	0.45	0/4636
1	GA	0.19	0/3421	0.45	0/4636
1	GC	0.19	0/3421	0.45	0/4636
1	GE	0.19	0/3421	0.45	0/4636
1	HA	0.19	0/3421	0.45	0/4636
1	HC	0.19	0/3421	0.45	0/4636
1	HE	0.19	0/3421	0.45	0/4636
1	IA	0.19	0/3421	0.45	0/4636
1	IC	0.19	0/3421	0.45	0/4636
1	IE	0.19	0/3421	0.45	0/4636
1	JA	0.19	0/3421	0.45	0/4636
1	JC	0.19	0/3421	0.45	0/4636
1	JE	0.19	0/3421	0.45	0/4636
1	KA	0.19	0/3421	0.45	0/4636
1	KC	0.19	0/3421	0.45	0/4636

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	KE	0.19	0/3421	0.45	0/4636
1	LA	0.19	0/3421	0.45	0/4636
1	LC	0.19	0/3421	0.45	0/4636
1	LE	0.19	0/3421	0.45	0/4636
1	MA	0.19	0/3421	0.45	0/4636
1	MC	0.19	0/3421	0.45	0/4636
1	ME	0.19	0/3421	0.45	0/4636
2	AB	0.21	0/3439	0.47	4/4655 (0.1%)
2	AD	0.21	0/3439	0.47	4/4655 (0.1%)
2	AF	0.21	0/3439	0.46	4/4655 (0.1%)
2	BB	0.21	0/3439	0.47	4/4655 (0.1%)
2	BD	0.21	0/3439	0.47	4/4655 (0.1%)
2	BF	0.21	0/3439	0.47	4/4655 (0.1%)
2	CB	0.21	0/3439	0.47	4/4655 (0.1%)
2	CD	0.21	0/3439	0.47	4/4655 (0.1%)
2	CF	0.21	0/3439	0.46	4/4655 (0.1%)
2	DB	0.21	0/3439	0.47	4/4655 (0.1%)
2	DD	0.21	0/3439	0.47	4/4655 (0.1%)
2	DF	0.21	0/3439	0.47	4/4655 (0.1%)
2	EB	0.21	0/3439	0.47	4/4655 (0.1%)
2	ED	0.21	0/3439	0.46	4/4655 (0.1%)
2	EF	0.21	0/3439	0.47	4/4655 (0.1%)
2	FB	0.21	0/3439	0.47	4/4655 (0.1%)
2	FD	0.21	0/3439	0.47	4/4655 (0.1%)
2	FF	0.21	0/3439	0.47	4/4655 (0.1%)
2	GB	0.21	0/3439	0.47	4/4655 (0.1%)
2	GD	0.21	0/3439	0.47	5/4655 (0.1%)
2	GF	0.21	0/3439	0.46	4/4655 (0.1%)
2	HB	0.21	0/3439	0.46	4/4655 (0.1%)
2	HD	0.21	0/3439	0.47	4/4655 (0.1%)
2	HF	0.21	0/3439	0.47	4/4655 (0.1%)
2	IB	0.21	0/3439	0.47	4/4655 (0.1%)
2	ID	0.21	0/3439	0.47	5/4655 (0.1%)
2	IF	0.21	0/3439	0.47	4/4655 (0.1%)
2	JB	0.21	0/3439	0.46	4/4655 (0.1%)
2	JD	0.21	0/3439	0.47	4/4655 (0.1%)
2	JF	0.21	0/3439	0.46	4/4655 (0.1%)
2	KB	0.21	0/3439	0.47	4/4655 (0.1%)
2	KD	0.21	0/3439	0.47	4/4655 (0.1%)
2	KF	0.21	0/3439	0.47	4/4655 (0.1%)
2	LB	0.21	0/3439	0.47	4/4655 (0.1%)
2	LD	0.21	0/3439	0.47	4/4655 (0.1%)
2	LF	0.21	0/3439	0.47	4/4655 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	MB	0.21	0/3439	0.47	4/4655 (0.1%)
2	MD	0.21	0/3439	0.47	4/4655 (0.1%)
2	MF	0.21	0/3439	0.46	5/4655 (0.1%)
3	1A	0.68	0/1161	1.23	0/1566
3	1B	0.68	0/1161	1.23	0/1566
3	1C	0.68	0/1161	1.23	0/1566
4	2A	0.76	1/1642 (0.1%)	1.29	13/2193 (0.6%)
4	2B	0.76	1/1642 (0.1%)	1.29	13/2193 (0.6%)
4	2C	0.76	1/1642 (0.1%)	1.29	13/2193 (0.6%)
5	3A	0.65	0/2795	1.13	1/3751 (0.0%)
5	3B	0.65	0/2795	1.13	1/3751 (0.0%)
5	3C	0.65	0/2795	1.13	1/3751 (0.0%)
6	4A	0.99	2/1610 (0.1%)	1.50	35/2151 (1.6%)
6	4B	0.99	2/1610 (0.1%)	1.50	35/2151 (1.6%)
6	4C	0.99	2/1610 (0.1%)	1.50	35/2151 (1.6%)
6	4D	0.99	2/1610 (0.1%)	1.50	35/2151 (1.6%)
7	5A	1.02	31/6042 (0.5%)	1.37	68/8049 (0.8%)
7	5B	1.02	31/6042 (0.5%)	1.37	68/8049 (0.8%)
7	5C	1.02	31/6042 (0.5%)	1.37	68/8049 (0.8%)
8	6A	0.71	0/2126	1.03	0/2877
8	6B	0.71	0/2126	1.03	0/2877
8	6C	0.71	0/2126	1.03	0/2877
9	7A	0.58	0/390	0.66	0/524
9	7B	0.59	0/390	0.68	0/524
9	7C	0.58	0/390	0.67	0/524
9	7D	0.59	0/390	0.68	0/524
9	7E	0.58	0/390	0.66	0/524
9	7F	0.59	0/390	0.68	0/524
All	All	0.39	104/317618 (0.0%)	0.65	545/429405 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
4	2A	0	1
4	2B	0	1
4	2C	0	2
7	5A	0	7
7	5B	0	7
7	5C	0	7
All	All	0	25

All (104) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	5C	1372	VAL	CA-C	14.89	1.71	1.52
7	5B	1372	VAL	CA-C	14.89	1.71	1.52
7	5A	1372	VAL	CA-C	14.88	1.71	1.52
7	5B	1372	VAL	N-CA	14.51	1.64	1.46
7	5C	1372	VAL	N-CA	14.50	1.64	1.46
7	5A	1372	VAL	N-CA	14.49	1.64	1.46
7	5C	1471	ILE	N-CA	10.94	1.60	1.46
7	5A	1471	ILE	N-CA	10.93	1.60	1.46
7	5B	1471	ILE	N-CA	10.93	1.60	1.46
7	5A	1372	VAL	C-O	9.87	1.35	1.24
7	5C	1372	VAL	C-O	9.87	1.35	1.24
7	5B	1372	VAL	C-O	9.84	1.35	1.24
7	5A	1467	SER	C-O	9.73	1.35	1.24
7	5C	1467	SER	C-O	9.73	1.35	1.24
7	5B	1467	SER	C-O	9.71	1.35	1.24
7	5C	1250	VAL	C-N	8.71	1.46	1.33
7	5B	1250	VAL	C-N	8.71	1.46	1.33
7	5A	1250	VAL	C-N	8.70	1.46	1.33
7	5A	1471	ILE	CA-C	8.23	1.63	1.52
7	5B	1471	ILE	CA-C	8.22	1.63	1.52
7	5C	1471	ILE	CA-C	8.19	1.63	1.52
7	5B	1283	ALA	C-N	8.12	1.45	1.33
7	5A	1283	ALA	C-N	8.10	1.45	1.33
7	5C	1283	ALA	C-N	8.08	1.45	1.33
7	5B	1380	LEU	C-O	7.69	1.33	1.24
7	5A	1380	LEU	C-O	7.63	1.33	1.24
7	5C	1380	LEU	C-O	7.61	1.33	1.24
7	5A	1377	LYS	C-O	6.71	1.31	1.24
7	5C	1377	LYS	C-O	6.69	1.31	1.24
7	5B	1377	LYS	C-O	6.67	1.31	1.24
7	5A	1431	GLU	C-O	6.46	1.31	1.24
7	5B	1431	GLU	C-O	6.44	1.31	1.24
7	5C	1431	GLU	C-O	6.44	1.31	1.24
7	5A	1315	ARG	C-O	-6.30	1.16	1.24
7	5C	1315	ARG	C-O	-6.30	1.16	1.24
7	5B	1252	THR	C-N	6.24	1.41	1.33
7	5A	1252	THR	C-N	6.22	1.41	1.33
7	5B	1315	ARG	C-O	-6.22	1.16	1.24
7	5C	1252	THR	C-N	6.19	1.41	1.33
7	5C	1322	VAL	C-O	-6.17	1.17	1.24
7	5A	1322	VAL	C-O	-6.17	1.17	1.24
7	5B	1322	VAL	C-O	-6.10	1.17	1.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	5C	1377	LYS	CA-C	5.95	1.60	1.52
7	5B	1377	LYS	CA-C	5.94	1.60	1.52
7	5A	1377	LYS	CA-C	5.93	1.60	1.52
7	5B	1254	GLY	C-N	5.91	1.42	1.33
7	5A	1254	GLY	C-N	5.88	1.41	1.33
7	5A	799	LYS	CA-C	5.84	1.60	1.52
7	5B	1376	GLN	C-O	5.84	1.30	1.24
7	5C	1254	GLY	C-N	5.83	1.41	1.33
7	5B	799	LYS	CA-C	5.83	1.60	1.52
7	5C	799	LYS	CA-C	5.83	1.60	1.52
7	5C	1376	GLN	C-O	5.82	1.30	1.24
7	5A	1375	GLN	C-O	5.82	1.30	1.24
7	5A	1376	GLN	C-O	5.82	1.30	1.24
7	5B	1375	GLN	C-O	5.82	1.30	1.24
7	5C	1428	GLU	C-O	5.80	1.30	1.24
7	5C	1375	GLN	C-O	5.80	1.30	1.24
7	5A	1428	GLU	C-O	5.75	1.30	1.24
7	5B	1428	GLU	C-O	5.75	1.30	1.24
7	5A	1379	LYS	C-O	5.73	1.30	1.24
7	5C	1379	LYS	C-O	5.72	1.30	1.24
7	5B	1379	LYS	C-O	5.70	1.30	1.24
7	5B	1343	LYS	C-O	5.59	1.30	1.24
7	5B	1248	LEU	C-N	5.58	1.42	1.33
7	5C	1343	LYS	C-O	5.58	1.30	1.24
7	5A	1248	LEU	C-N	5.56	1.42	1.33
7	5C	1248	LEU	C-N	5.55	1.42	1.33
6	4D	108	LYS	N-CA	5.55	1.53	1.46
7	5A	1343	LYS	C-O	5.53	1.30	1.24
6	4B	108	LYS	N-CA	5.51	1.53	1.46
6	4A	108	LYS	N-CA	5.47	1.53	1.46
6	4C	108	LYS	N-CA	5.46	1.53	1.46
6	4C	160	ASP	CA-C	-5.45	1.45	1.52
6	4B	160	ASP	CA-C	-5.44	1.45	1.52
6	4D	160	ASP	CA-C	-5.43	1.45	1.52
6	4A	160	ASP	CA-C	-5.42	1.45	1.52
7	5B	1407	GLN	CA-C	-5.32	1.45	1.52
7	5C	1407	GLN	CA-C	-5.28	1.46	1.52
7	5A	1407	GLN	CA-C	-5.28	1.46	1.52
7	5C	1440	GLU	C-O	5.19	1.30	1.24
7	5A	1336	LYS	C-O	5.18	1.30	1.24
4	2B	17	ILE	CA-C	-5.17	1.46	1.52
7	5A	1432	ALA	C-O	5.17	1.30	1.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	5A	1440	GLU	C-O	5.16	1.30	1.24
7	5B	1440	GLU	C-O	5.16	1.30	1.24
7	5B	1336	LYS	C-O	5.16	1.30	1.24
7	5C	1336	LYS	C-O	5.15	1.30	1.24
7	5B	1432	ALA	C-O	5.15	1.30	1.24
7	5C	1307	ALA	C-O	-5.13	1.18	1.24
7	5C	1443	LYS	C-O	5.13	1.30	1.24
7	5C	1432	ALA	C-O	5.12	1.30	1.24
7	5A	1443	LYS	C-O	5.12	1.30	1.24
4	2A	17	ILE	CA-C	-5.10	1.46	1.52
7	5B	1443	LYS	C-O	5.09	1.30	1.24
7	5B	1307	ALA	C-O	-5.08	1.18	1.24
7	5B	1464	GLU	C-O	5.08	1.30	1.24
7	5A	1307	ALA	C-O	-5.07	1.18	1.24
4	2C	17	ILE	CA-C	-5.06	1.47	1.52
7	5C	1464	GLU	C-O	5.06	1.30	1.24
7	5A	1464	GLU	C-O	5.04	1.30	1.24
7	5B	1371	GLU	CA-C	5.03	1.59	1.52
7	5C	1371	GLU	CA-C	5.03	1.59	1.52
7	5A	1371	GLU	CA-C	5.01	1.59	1.52

All (545) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	5A	1283	ALA	O-C-N	-18.60	96.86	121.97
7	5B	1283	ALA	O-C-N	-18.59	96.87	121.97
7	5C	1283	ALA	O-C-N	-18.55	96.93	121.97
4	2C	17	ILE	N-CA-C	-15.81	94.97	110.30
4	2A	17	ILE	N-CA-C	-15.75	95.02	110.30
4	2B	17	ILE	N-CA-C	-15.73	95.04	110.30
6	4C	107	MET	N-CA-C	15.43	129.46	111.71
6	4A	107	MET	N-CA-C	15.42	129.44	111.71
6	4B	107	MET	N-CA-C	15.38	129.40	111.71
6	4D	107	MET	N-CA-C	15.36	129.38	111.71
7	5B	1373	PHE	N-CA-C	13.55	126.05	111.28
7	5A	1373	PHE	N-CA-C	13.54	126.04	111.28
7	5C	1373	PHE	N-CA-C	13.50	126.00	111.28
7	5C	1254	GLY	CA-C-N	11.84	139.54	120.60
7	5C	1254	GLY	C-N-CA	11.84	139.54	120.60
7	5B	1254	GLY	CA-C-N	11.84	139.54	120.60
7	5B	1254	GLY	C-N-CA	11.84	139.54	120.60
7	5A	1254	GLY	CA-C-N	11.81	139.50	120.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	5A	1254	GLY	C-N-CA	11.81	139.50	120.60
7	5C	1407	GLN	N-CA-C	-11.42	98.84	111.28
7	5A	1407	GLN	N-CA-C	-11.39	98.87	111.28
7	5B	1407	GLN	N-CA-C	-11.38	98.87	111.28
7	5C	1278	GLY	O-C-N	-10.64	108.87	122.70
7	5A	1278	GLY	O-C-N	-10.63	108.88	122.70
7	5B	1278	GLY	O-C-N	-10.61	108.91	122.70
6	4B	259	THR	N-CA-C	10.55	122.86	111.36
6	4A	259	THR	N-CA-C	10.53	122.84	111.36
6	4D	259	THR	N-CA-C	10.53	122.84	111.36
6	4C	259	THR	N-CA-C	10.53	122.83	111.36
7	5A	773	ARG	N-CA-C	10.32	123.68	109.54
7	5C	773	ARG	N-CA-C	10.32	123.67	109.54
7	5B	773	ARG	N-CA-C	10.31	123.66	109.54
7	5A	1280	SER	O-C-N	-9.89	109.43	122.59
7	5C	1280	SER	O-C-N	-9.89	109.44	122.59
7	5C	842	LEU	N-CA-C	9.88	126.00	113.55
7	5B	1280	SER	O-C-N	-9.87	109.47	122.59
4	2C	145	GLN	N-CA-C	9.85	117.09	108.22
7	5B	842	LEU	N-CA-C	9.85	125.97	113.55
4	2B	145	GLN	N-CA-C	9.85	117.08	108.22
7	5A	842	LEU	N-CA-C	9.85	125.95	113.55
4	2A	145	GLN	N-CA-C	9.84	117.08	108.22
7	5C	1471	ILE	N-CA-C	9.51	129.11	109.34
7	5B	1471	ILE	N-CA-C	9.49	129.09	109.34
7	5A	1471	ILE	N-CA-C	9.49	129.08	109.34
6	4C	132	LYS	N-CA-C	9.36	121.56	111.36
6	4A	132	LYS	N-CA-C	9.36	121.56	111.36
6	4B	132	LYS	N-CA-C	9.35	121.56	111.36
6	4D	132	LYS	N-CA-C	9.35	121.55	111.36
7	5B	1254	GLY	O-C-N	-9.34	110.56	122.70
7	5C	1254	GLY	O-C-N	-9.33	110.57	122.70
7	5A	1254	GLY	O-C-N	-9.32	110.59	122.70
7	5C	1372	VAL	N-CA-C	8.93	127.92	109.34
7	5A	1372	VAL	N-CA-C	8.93	127.92	109.34
7	5B	1372	VAL	N-CA-C	8.93	127.90	109.34
7	5A	1270	ASP	N-CA-C	8.87	120.72	111.14
7	5C	1270	ASP	N-CA-C	8.86	120.71	111.14
7	5B	1270	ASP	N-CA-C	8.85	120.70	111.14
4	2A	147	PHE	N-CA-C	-8.54	92.62	110.80
4	2B	147	PHE	N-CA-C	-8.53	92.63	110.80
4	2C	147	PHE	N-CA-C	-8.51	92.67	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4B	256	ASN	N-CA-C	8.40	120.51	111.36
6	4A	256	ASN	N-CA-C	8.39	120.51	111.36
6	4C	256	ASN	N-CA-C	8.38	120.49	111.36
6	4D	256	ASN	N-CA-C	8.36	120.48	111.36
6	4D	252	VAL	N-CA-C	8.07	118.17	110.42
6	4B	252	VAL	N-CA-C	8.05	118.15	110.42
6	4A	252	VAL	N-CA-C	8.04	118.14	110.42
6	4C	252	VAL	N-CA-C	8.04	118.14	110.42
7	5B	1565	GLU	N-CA-C	7.90	122.38	112.03
7	5C	1565	GLU	N-CA-C	7.90	122.38	112.03
7	5A	1565	GLU	N-CA-C	7.88	122.35	112.03
4	2C	16	GLN	N-CA-C	7.84	119.90	111.36
4	2C	146	PRO	CA-C-N	7.84	136.51	121.54
4	2C	146	PRO	C-N-CA	7.84	136.51	121.54
4	2B	146	PRO	CA-C-N	7.83	136.50	121.54
4	2B	146	PRO	C-N-CA	7.83	136.50	121.54
7	5C	1492	SER	CA-C-O	-7.83	112.78	121.00
4	2A	146	PRO	CA-C-N	7.83	136.49	121.54
4	2A	146	PRO	C-N-CA	7.83	136.49	121.54
7	5A	1492	SER	CA-C-O	-7.82	112.80	121.00
4	2B	16	GLN	N-CA-C	7.80	119.86	111.36
7	5B	1492	SER	CA-C-O	-7.79	112.81	121.00
4	2A	16	GLN	N-CA-C	7.77	119.83	111.36
7	5C	1253	ILE	O-C-N	-7.71	112.79	122.97
7	5A	1253	ILE	O-C-N	-7.71	112.79	122.97
7	5B	1253	ILE	O-C-N	-7.71	112.80	122.97
7	5A	1282	GLN	O-C-N	-7.61	112.01	122.20
7	5C	1282	GLN	O-C-N	-7.60	112.02	122.20
7	5B	1282	GLN	O-C-N	-7.59	112.03	122.20
7	5B	1269	ASP	N-CA-C	-7.57	103.14	112.38
7	5A	1269	ASP	N-CA-C	-7.55	103.17	112.38
7	5C	1269	ASP	N-CA-C	-7.55	103.17	112.38
4	2A	175	VAL	N-CA-C	7.48	118.28	110.72
4	2B	175	VAL	N-CA-C	7.47	118.26	110.72
7	5C	1260	THR	CA-C-N	7.46	131.66	120.31
7	5C	1260	THR	C-N-CA	7.46	131.66	120.31
7	5B	1260	THR	CA-C-N	7.46	131.65	120.31
7	5B	1260	THR	C-N-CA	7.46	131.65	120.31
7	5A	1260	THR	CA-C-N	7.45	131.64	120.31
7	5A	1260	THR	C-N-CA	7.45	131.64	120.31
4	2C	175	VAL	N-CA-C	7.43	118.23	110.72
7	5C	1357	LYS	O-C-N	7.42	129.71	122.07

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	5A	1357	LYS	O-C-N	7.41	129.70	122.07
4	2A	143	LEU	N-CA-C	-7.41	95.02	110.80
7	5B	1357	LYS	O-C-N	7.41	129.70	122.07
4	2B	143	LEU	N-CA-C	-7.40	95.04	110.80
4	2C	143	LEU	N-CA-C	-7.40	95.05	110.80
6	4B	152	PHE	N-CA-C	7.28	122.27	112.88
6	4A	152	PHE	N-CA-C	7.27	122.26	112.88
6	4D	152	PHE	N-CA-C	7.27	122.26	112.88
6	4C	152	PHE	N-CA-C	7.26	122.25	112.88
6	4D	97	GLN	CA-C-N	7.26	128.92	119.84
6	4D	97	GLN	C-N-CA	7.26	128.92	119.84
6	4D	190	TRP	CA-CB-CG	7.26	127.39	113.60
7	5C	1294	ILE	N-CA-C	7.25	118.02	110.62
7	5B	1294	ILE	N-CA-C	7.25	118.02	110.62
7	5A	1294	ILE	N-CA-C	7.25	118.01	110.62
6	4A	97	GLN	CA-C-N	7.24	128.89	119.84
6	4A	97	GLN	C-N-CA	7.24	128.89	119.84
6	4C	190	TRP	CA-CB-CG	7.24	127.35	113.60
6	4A	190	TRP	CA-CB-CG	7.23	127.34	113.60
6	4B	97	GLN	CA-C-N	7.23	128.88	119.84
6	4B	97	GLN	C-N-CA	7.23	128.88	119.84
6	4B	190	TRP	CA-CB-CG	7.23	127.34	113.60
6	4C	97	GLN	CA-C-N	7.22	128.87	119.84
6	4C	97	GLN	C-N-CA	7.22	128.87	119.84
6	4D	145	PHE	N-CA-C	7.21	119.53	109.15
2	FB	127	CYS	N-CA-C	7.19	120.13	110.35
2	CB	127	CYS	N-CA-C	7.18	120.12	110.35
2	CD	127	CYS	N-CA-C	7.18	120.12	110.35
2	MB	127	CYS	N-CA-C	7.18	120.11	110.35
2	MD	127	CYS	N-CA-C	7.18	120.11	110.35
6	4B	145	PHE	N-CA-C	7.18	119.48	109.15
7	5B	1279	ASP	CA-C-N	7.18	135.25	121.54
7	5B	1279	ASP	C-N-CA	7.18	135.25	121.54
2	FD	127	CYS	N-CA-C	7.17	120.11	110.35
2	FF	127	CYS	N-CA-C	7.17	120.11	110.35
2	EB	127	CYS	N-CA-C	7.17	120.10	110.35
2	CF	127	CYS	N-CA-C	7.17	120.10	110.35
2	LD	127	CYS	N-CA-C	7.17	120.09	110.35
7	5A	1278	GLY	CA-C-N	7.17	133.27	122.95
7	5A	1278	GLY	C-N-CA	7.17	133.27	122.95
6	4C	145	PHE	N-CA-C	7.16	119.47	109.15
2	KD	127	CYS	N-CA-C	7.16	120.09	110.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	ED	127	CYS	N-CA-C	7.16	120.09	110.35
2	ID	127	CYS	N-CA-C	7.16	120.09	110.35
7	5C	1278	GLY	CA-C-N	7.16	133.26	122.95
7	5C	1278	GLY	C-N-CA	7.16	133.26	122.95
2	MB	131	GLN	N-CA-C	-7.16	103.16	112.68
6	4C	134	LEU	N-CA-C	-7.16	104.81	113.97
7	5A	1279	ASP	CA-C-N	7.16	135.21	121.54
7	5A	1279	ASP	C-N-CA	7.16	135.21	121.54
2	EB	131	GLN	N-CA-C	-7.15	103.17	112.68
2	CD	131	GLN	N-CA-C	-7.15	103.17	112.68
4	2A	151	VAL	N-CA-C	7.15	124.22	109.34
4	2C	151	VAL	N-CA-C	7.15	124.21	109.34
2	AD	127	CYS	N-CA-C	7.15	120.07	110.35
2	HB	127	CYS	N-CA-C	7.15	120.07	110.35
2	MF	127	CYS	N-CA-C	7.15	120.07	110.35
2	KF	131	GLN	N-CA-C	-7.15	103.17	112.68
7	5B	1278	GLY	CA-C-N	7.15	133.24	122.95
7	5B	1278	GLY	C-N-CA	7.15	133.24	122.95
2	AB	127	CYS	N-CA-C	7.15	120.07	110.35
2	LF	127	CYS	N-CA-C	7.15	120.07	110.35
7	5C	1279	ASP	CA-C-N	7.15	135.19	121.54
7	5C	1279	ASP	C-N-CA	7.15	135.19	121.54
2	KD	131	GLN	N-CA-C	-7.14	103.18	112.68
2	LD	131	GLN	N-CA-C	-7.14	103.18	112.68
4	2B	151	VAL	N-CA-C	7.14	124.20	109.34
6	4A	145	PHE	N-CA-C	7.14	119.44	109.15
6	4A	134	LEU	N-CA-C	-7.14	104.83	113.97
2	DF	131	GLN	N-CA-C	-7.14	103.18	112.68
2	KB	127	CYS	N-CA-C	7.14	120.06	110.35
2	GD	131	GLN	N-CA-C	-7.14	103.19	112.68
2	IB	127	CYS	N-CA-C	7.14	120.06	110.35
6	4B	134	LEU	N-CA-C	-7.14	104.83	113.97
6	4D	134	LEU	N-CA-C	-7.13	104.84	113.97
2	GD	127	CYS	N-CA-C	7.13	120.05	110.35
2	GF	127	CYS	N-CA-C	7.13	120.05	110.35
2	AD	131	GLN	N-CA-C	-7.13	103.19	112.68
2	GF	131	GLN	N-CA-C	-7.13	103.19	112.68
2	IB	131	GLN	N-CA-C	-7.13	103.19	112.68
2	JB	127	CYS	N-CA-C	7.13	120.05	110.35
2	LB	127	CYS	N-CA-C	7.13	120.05	110.35
2	BB	127	CYS	N-CA-C	7.13	120.04	110.35
2	BD	131	GLN	N-CA-C	-7.13	103.20	112.68

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	DB	127	CYS	N-CA-C	7.13	120.04	110.35
2	HD	127	CYS	N-CA-C	7.13	120.04	110.35
2	HF	131	GLN	N-CA-C	-7.13	103.20	112.68
2	IF	131	GLN	N-CA-C	-7.13	103.20	112.68
2	MF	131	GLN	N-CA-C	-7.13	103.20	112.68
2	AF	131	GLN	N-CA-C	-7.13	103.20	112.68
2	DD	127	CYS	N-CA-C	7.13	120.04	110.35
2	FF	131	GLN	N-CA-C	-7.13	103.20	112.68
2	GB	127	CYS	N-CA-C	7.13	120.04	110.35
2	JD	127	CYS	N-CA-C	7.13	120.04	110.35
2	EF	127	CYS	N-CA-C	7.12	120.04	110.35
2	HD	131	GLN	N-CA-C	-7.12	103.21	112.68
2	MD	131	GLN	N-CA-C	-7.12	103.21	112.68
2	ID	131	GLN	N-CA-C	-7.12	103.21	112.68
2	JD	131	GLN	N-CA-C	-7.12	103.21	112.68
2	CB	131	GLN	N-CA-C	-7.12	103.22	112.68
2	ED	131	GLN	N-CA-C	-7.12	103.22	112.68
2	BB	131	GLN	N-CA-C	-7.11	103.22	112.68
2	BF	131	GLN	N-CA-C	-7.11	103.22	112.68
2	CF	131	GLN	N-CA-C	-7.11	103.22	112.68
2	JF	131	GLN	N-CA-C	-7.11	103.22	112.68
2	LB	131	GLN	N-CA-C	-7.11	103.23	112.68
2	IF	127	CYS	N-CA-C	7.11	120.01	110.35
2	JB	131	GLN	N-CA-C	-7.11	103.23	112.68
2	DB	131	GLN	N-CA-C	-7.10	103.23	112.68
2	FD	131	GLN	N-CA-C	-7.10	103.23	112.68
2	AB	131	GLN	N-CA-C	-7.10	103.23	112.68
2	BF	127	CYS	N-CA-C	7.10	120.01	110.35
2	EF	131	GLN	N-CA-C	-7.10	103.24	112.68
2	HB	131	GLN	N-CA-C	-7.10	103.24	112.68
2	JF	127	CYS	N-CA-C	7.10	120.00	110.35
2	AF	127	CYS	N-CA-C	7.10	120.00	110.35
2	LF	131	GLN	N-CA-C	-7.09	103.25	112.68
2	BD	127	CYS	N-CA-C	7.09	120.00	110.35
2	KB	131	GLN	N-CA-C	-7.09	103.25	112.68
2	DF	127	CYS	N-CA-C	7.09	119.99	110.35
2	FB	131	GLN	N-CA-C	-7.09	103.25	112.68
2	DD	131	GLN	N-CA-C	-7.08	103.27	112.68
2	HF	127	CYS	N-CA-C	7.08	119.97	110.35
2	GB	131	GLN	N-CA-C	-7.07	103.28	112.68
2	KF	127	CYS	N-CA-C	7.06	119.95	110.35
7	5C	1483	VAL	O-C-N	7.05	128.71	121.87

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	5B	1483	VAL	O-C-N	7.04	128.70	121.87
7	5A	1483	VAL	O-C-N	7.04	128.70	121.87
6	4B	153	ASP	N-CA-C	-7.01	99.45	109.96
6	4A	153	ASP	N-CA-C	-7.00	99.45	109.96
7	5A	843	LEU	N-CA-C	7.00	121.08	108.48
7	5B	843	LEU	N-CA-C	7.00	121.08	108.48
6	4C	153	ASP	N-CA-C	-7.00	99.47	109.96
7	5C	843	LEU	N-CA-C	6.99	121.06	108.48
6	4D	153	ASP	N-CA-C	-6.99	99.48	109.96
4	2C	147	PHE	N-CA-CB	6.97	122.27	110.49
7	5A	1319	HIS	N-CA-C	-6.96	103.62	111.14
7	5C	1319	HIS	N-CA-C	-6.96	103.63	111.14
7	5B	1319	HIS	N-CA-C	-6.95	103.63	111.14
4	2A	147	PHE	N-CA-CB	6.95	122.23	110.49
4	2B	147	PHE	N-CA-CB	6.93	122.21	110.49
6	4D	230	TYR	N-CA-C	6.92	120.87	110.14
6	4B	230	TYR	N-CA-C	6.92	120.86	110.14
6	4A	230	TYR	N-CA-C	6.92	120.86	110.14
6	4C	230	TYR	N-CA-C	6.90	120.84	110.14
7	5A	1577	LYS	N-CA-C	-6.86	98.76	109.25
7	5B	1577	LYS	N-CA-C	-6.85	98.77	109.25
7	5C	1577	LYS	N-CA-C	-6.84	98.78	109.25
6	4A	262	ASN	N-CA-C	6.79	120.33	110.28
6	4B	262	ASN	N-CA-C	6.77	120.30	110.28
6	4D	262	ASN	N-CA-C	6.77	120.30	110.28
7	5C	798	LYS	O-C-N	-6.76	114.31	122.22
7	5B	798	LYS	O-C-N	-6.75	114.32	122.22
6	4C	262	ASN	N-CA-C	6.75	120.27	110.28
7	5A	798	LYS	O-C-N	-6.74	114.33	122.22
7	5A	1565	GLU	CA-C-O	-6.69	113.68	119.97
7	5B	1565	GLU	CA-C-O	-6.68	113.69	119.97
7	5C	799	LYS	N-CA-C	6.68	118.25	110.97
7	5B	799	LYS	N-CA-C	6.66	118.23	110.97
7	5B	1488	GLU	N-CA-C	-6.66	104.10	111.36
7	5C	1565	GLU	CA-C-O	-6.66	113.71	119.97
7	5A	799	LYS	N-CA-C	6.65	118.22	110.97
7	5A	1488	GLU	N-CA-C	-6.64	104.12	111.36
7	5C	1488	GLU	N-CA-C	-6.62	104.14	111.36
7	5B	1371	GLU	N-CA-C	6.61	124.89	110.80
7	5A	1371	GLU	N-CA-C	6.61	124.88	110.80
7	5C	1371	GLU	N-CA-C	6.59	124.84	110.80
7	5C	1565	GLU	CA-C-N	-6.55	110.85	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	5C	1565	GLU	C-N-CA	-6.55	110.85	120.28
7	5A	1253	ILE	CA-C-N	6.55	134.24	121.41
7	5A	1253	ILE	C-N-CA	6.55	134.24	121.41
7	5B	1253	ILE	CA-C-N	6.54	134.22	121.41
7	5B	1253	ILE	C-N-CA	6.54	134.22	121.41
7	5C	1253	ILE	CA-C-N	6.54	134.22	121.41
7	5C	1253	ILE	C-N-CA	6.54	134.22	121.41
7	5A	1565	GLU	CA-C-N	-6.51	110.90	120.28
7	5A	1565	GLU	C-N-CA	-6.51	110.90	120.28
7	5B	1565	GLU	CA-C-N	-6.50	110.91	120.28
7	5B	1565	GLU	C-N-CA	-6.50	110.91	120.28
5	3A	233	ASP	CA-CB-CG	6.36	118.96	112.60
5	3C	233	ASP	CA-CB-CG	6.36	118.95	112.60
6	4B	232	LYS	N-CA-C	6.34	119.47	109.96
6	4A	232	LYS	N-CA-C	6.33	119.46	109.96
6	4D	232	LYS	N-CA-C	6.33	119.45	109.96
6	4C	232	LYS	N-CA-C	6.32	119.44	109.96
5	3B	233	ASP	CA-CB-CG	6.32	118.92	112.60
7	5C	1427	LYS	CA-C-N	6.29	129.00	120.38
7	5C	1427	LYS	C-N-CA	6.29	129.00	120.38
7	5A	1427	LYS	CA-C-N	6.29	129.00	120.38
7	5A	1427	LYS	C-N-CA	6.29	129.00	120.38
7	5B	1427	LYS	CA-C-N	6.27	128.97	120.38
7	5B	1427	LYS	C-N-CA	6.27	128.97	120.38
7	5B	1492	SER	CA-C-N	-6.24	109.62	121.54
7	5B	1492	SER	C-N-CA	-6.24	109.62	121.54
7	5A	1492	SER	CA-C-N	-6.24	109.63	121.54
7	5A	1492	SER	C-N-CA	-6.24	109.63	121.54
7	5C	1492	SER	CA-C-N	-6.24	109.63	121.54
7	5C	1492	SER	C-N-CA	-6.24	109.63	121.54
4	2B	171	VAL	N-CA-C	-6.07	96.72	109.34
4	2C	171	VAL	N-CA-C	-6.06	96.74	109.34
4	2A	171	VAL	N-CA-C	-6.05	96.75	109.34
7	5A	1281	ASN	O-C-N	-5.98	114.07	122.26
6	4D	133	GLN	N-CA-C	5.97	119.80	111.74
6	4A	133	GLN	N-CA-C	5.95	119.78	111.74
6	4B	133	GLN	N-CA-C	5.95	119.77	111.74
7	5B	1491	LEU	N-CA-C	-5.95	104.87	111.36
6	4B	278	TYR	N-CA-C	5.94	117.76	111.28
6	4A	278	TYR	N-CA-C	5.94	117.76	111.28
6	4C	133	GLN	N-CA-C	5.94	119.76	111.74
7	5C	1281	ASN	O-C-N	-5.94	114.13	122.26

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	5A	1491	LEU	N-CA-C	-5.93	104.89	111.36
7	5C	1491	LEU	N-CA-C	-5.93	104.89	111.36
7	5B	1281	ASN	O-C-N	-5.93	114.14	122.26
6	4A	137	ASN	CA-C-N	5.92	125.82	119.85
6	4A	137	ASN	C-N-CA	5.92	125.82	119.85
6	4C	278	TYR	N-CA-C	5.91	117.72	111.28
6	4C	137	ASN	CA-C-N	5.90	125.81	119.85
6	4C	137	ASN	C-N-CA	5.90	125.81	119.85
6	4D	278	TYR	N-CA-C	5.90	117.71	111.28
6	4B	137	ASN	CA-C-N	5.89	125.80	119.85
6	4B	137	ASN	C-N-CA	5.89	125.80	119.85
6	4D	137	ASN	CA-C-N	5.88	125.79	119.85
6	4D	137	ASN	C-N-CA	5.88	125.79	119.85
6	4D	155	ASP	N-CA-C	5.82	118.20	108.02
6	4A	155	ASP	N-CA-C	5.81	118.19	108.02
4	2A	144	ASN	N-CA-C	5.80	118.92	108.48
6	4B	155	ASP	N-CA-C	5.79	118.15	108.02
7	5C	1245	GLY	O-C-N	-5.79	115.17	122.70
6	4C	155	ASP	N-CA-C	5.79	118.15	108.02
4	2B	144	ASN	N-CA-C	5.78	118.89	108.48
7	5B	1245	GLY	O-C-N	-5.78	115.18	122.70
4	2C	144	ASN	N-CA-C	5.78	118.88	108.48
7	5A	1245	GLY	O-C-N	-5.78	115.19	122.70
7	5C	1580	LYS	N-CA-C	5.77	123.09	110.80
7	5B	1485	LYS	N-CA-C	-5.77	105.07	111.36
7	5A	1580	LYS	N-CA-C	5.76	123.08	110.80
7	5B	1580	LYS	N-CA-C	5.75	123.06	110.80
7	5A	1485	LYS	N-CA-C	-5.75	105.09	111.36
7	5A	1282	GLN	CA-C-N	5.75	131.74	123.17
7	5A	1282	GLN	C-N-CA	5.75	131.74	123.17
7	5C	1282	GLN	CA-C-N	5.75	131.73	123.17
7	5C	1282	GLN	C-N-CA	5.75	131.73	123.17
7	5B	1282	GLN	CA-C-N	5.74	131.73	123.17
7	5B	1282	GLN	C-N-CA	5.74	131.73	123.17
7	5C	833	PHE	N-CA-C	-5.74	101.78	110.28
7	5C	1485	LYS	N-CA-C	-5.73	105.12	111.36
7	5A	833	PHE	N-CA-C	-5.72	101.81	110.28
7	5C	1470	LYS	N-CA-C	5.71	117.50	111.28
6	4D	279	LEU	N-CA-C	5.69	117.48	111.28
7	5B	833	PHE	N-CA-C	-5.69	101.86	110.28
7	5A	1470	LYS	N-CA-C	5.68	117.47	111.28
6	4C	279	LEU	N-CA-C	5.67	117.46	111.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4B	279	LEU	N-CA-C	5.67	117.46	111.28
6	4A	110	LYS	N-CA-C	5.66	118.66	110.28
6	4B	110	LYS	N-CA-C	5.66	118.66	110.28
7	5B	1470	LYS	N-CA-C	5.66	117.45	111.28
6	4D	110	LYS	N-CA-C	5.66	118.66	110.28
2	HB	129	CYS	N-CA-CB	-5.66	101.89	110.77
2	HF	129	CYS	N-CA-CB	-5.66	101.89	110.77
2	ID	129	CYS	N-CA-CB	-5.65	101.90	110.77
6	4A	279	LEU	N-CA-C	5.65	117.44	111.28
6	4C	110	LYS	N-CA-C	5.65	118.64	110.28
2	BD	129	CYS	N-CA-CB	-5.64	101.91	110.77
2	AF	129	CYS	N-CA-CB	-5.64	101.92	110.77
2	FD	129	CYS	N-CA-CB	-5.64	101.91	110.77
2	GB	129	CYS	N-CA-CB	-5.64	101.92	110.77
2	GD	129	CYS	N-CA-CB	-5.64	101.92	110.77
2	JD	129	CYS	N-CA-CB	-5.64	101.92	110.77
2	IF	129	CYS	N-CA-CB	-5.64	101.92	110.77
2	AD	129	CYS	N-CA-CB	-5.64	101.92	110.77
2	CD	129	CYS	N-CA-CB	-5.64	101.92	110.77
2	GF	129	CYS	N-CA-CB	-5.64	101.92	110.77
2	DD	129	CYS	N-CA-CB	-5.63	101.93	110.77
2	CF	129	CYS	N-CA-CB	-5.63	101.93	110.77
2	HD	129	CYS	N-CA-CB	-5.63	101.93	110.77
2	EB	129	CYS	N-CA-CB	-5.63	101.94	110.77
2	IB	129	CYS	N-CA-CB	-5.63	101.94	110.77
2	JB	129	CYS	N-CA-CB	-5.63	101.94	110.77
2	KF	129	CYS	N-CA-CB	-5.62	101.94	110.77
2	BF	129	CYS	N-CA-CB	-5.62	101.95	110.77
6	4C	139	ASP	CA-C-N	5.62	126.86	119.84
6	4C	139	ASP	C-N-CA	5.62	126.86	119.84
2	AB	129	CYS	N-CA-CB	-5.62	101.95	110.77
2	KD	129	CYS	N-CA-CB	-5.62	101.95	110.77
2	BB	129	CYS	N-CA-CB	-5.61	101.96	110.77
2	JF	129	CYS	N-CA-CB	-5.61	101.96	110.77
6	4C	264	GLY	N-CA-C	-5.61	107.30	114.37
2	EF	129	CYS	N-CA-CB	-5.61	101.97	110.77
6	4A	139	ASP	CA-C-N	5.60	126.84	119.84
6	4A	139	ASP	C-N-CA	5.60	126.84	119.84
2	KB	129	CYS	N-CA-CB	-5.60	101.97	110.77
6	4B	139	ASP	CA-C-N	5.60	126.84	119.84
6	4B	139	ASP	C-N-CA	5.60	126.84	119.84
6	4A	264	GLY	N-CA-C	-5.60	107.31	114.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4D	264	GLY	N-CA-C	-5.60	107.32	114.37
2	CB	129	CYS	N-CA-CB	-5.59	101.99	110.77
2	FB	129	CYS	N-CA-CB	-5.59	101.99	110.77
2	FF	129	CYS	N-CA-CB	-5.59	101.99	110.77
6	4B	169	ALA	N-CA-C	5.59	117.38	111.28
6	4B	264	GLY	N-CA-C	-5.59	107.33	114.37
2	DB	129	CYS	N-CA-CB	-5.59	102.00	110.77
2	ED	129	CYS	N-CA-CB	-5.58	102.00	110.77
6	4D	139	ASP	CA-C-N	5.58	126.82	119.84
6	4D	139	ASP	C-N-CA	5.58	126.82	119.84
2	DF	129	CYS	N-CA-CB	-5.58	102.01	110.77
2	LB	129	CYS	N-CA-CB	-5.58	102.01	110.77
6	4D	169	ALA	N-CA-C	5.58	117.36	111.28
7	5B	1470	LYS	CA-C-N	-5.58	111.93	121.97
7	5B	1470	LYS	C-N-CA	-5.58	111.93	121.97
2	MB	129	CYS	N-CA-CB	-5.58	102.02	110.77
2	LF	129	CYS	N-CA-CB	-5.57	102.03	110.77
6	4A	169	ALA	N-CA-C	5.57	117.35	111.28
2	MD	129	CYS	N-CA-CB	-5.57	102.03	110.77
6	4C	169	ALA	N-CA-C	5.56	117.34	111.28
2	LD	129	CYS	N-CA-CB	-5.55	102.05	110.77
2	MF	129	CYS	N-CA-CB	-5.55	102.05	110.77
7	5A	1470	LYS	CA-C-N	-5.55	111.98	121.97
7	5A	1470	LYS	C-N-CA	-5.55	111.98	121.97
7	5C	1470	LYS	CA-C-N	-5.54	112.00	121.97
7	5C	1470	LYS	C-N-CA	-5.54	112.00	121.97
4	2C	149	ILE	O-C-N	-5.52	115.67	122.57
6	4B	139	ASP	N-CA-C	5.48	116.61	109.64
6	4A	139	ASP	N-CA-C	5.47	116.59	109.64
6	4C	139	ASP	N-CA-C	5.46	116.58	109.64
4	2A	149	ILE	O-C-N	-5.45	115.76	122.57
6	4D	139	ASP	N-CA-C	5.45	116.56	109.64
4	2B	149	ILE	O-C-N	-5.43	115.78	122.57
6	4D	277	GLU	N-CA-C	5.41	117.93	111.71
6	4B	277	GLU	N-CA-C	5.38	117.89	111.71
6	4C	277	GLU	N-CA-C	5.37	117.89	111.71
6	4A	277	GLU	N-CA-C	5.36	117.87	111.71
7	5B	1315	ARG	CA-C-N	5.34	127.87	120.29
7	5B	1315	ARG	C-N-CA	5.34	127.87	120.29
7	5C	1257	ASP	CA-C-N	5.32	128.40	120.31
7	5C	1257	ASP	C-N-CA	5.32	128.40	120.31
7	5C	1315	ARG	CA-C-N	5.32	127.84	120.29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	5C	1315	ARG	C-N-CA	5.32	127.84	120.29
7	5A	1315	ARG	CA-C-N	5.31	127.83	120.29
7	5A	1315	ARG	C-N-CA	5.31	127.83	120.29
7	5A	1257	ASP	CA-C-N	5.31	128.38	120.31
7	5A	1257	ASP	C-N-CA	5.31	128.38	120.31
7	5B	1257	ASP	CA-C-N	5.30	128.36	120.31
7	5B	1257	ASP	C-N-CA	5.30	128.36	120.31
7	5C	1245	GLY	CA-C-N	5.30	131.26	121.52
7	5C	1245	GLY	C-N-CA	5.30	131.26	121.52
7	5A	1245	GLY	CA-C-N	5.28	131.23	121.52
7	5A	1245	GLY	C-N-CA	5.28	131.23	121.52
7	5B	1245	GLY	CA-C-N	5.27	131.22	121.52
7	5B	1245	GLY	C-N-CA	5.27	131.22	121.52
7	5B	1391	GLN	N-CA-C	-5.27	105.45	111.14
2	EF	128	ASP	N-CA-C	5.25	121.99	110.80
7	5C	1391	GLN	N-CA-C	-5.25	105.47	111.14
7	5A	1391	GLN	N-CA-C	-5.25	105.47	111.14
2	EB	128	ASP	N-CA-C	5.24	121.97	110.80
2	MD	128	ASP	N-CA-C	5.24	121.97	110.80
2	GB	128	ASP	N-CA-C	5.24	121.96	110.80
2	DD	128	ASP	N-CA-C	5.24	121.96	110.80
2	KB	128	ASP	N-CA-C	5.24	121.96	110.80
2	FB	128	ASP	N-CA-C	5.24	121.96	110.80
2	BD	128	ASP	N-CA-C	5.24	121.95	110.80
2	DB	128	ASP	N-CA-C	5.24	121.95	110.80
2	JF	128	ASP	N-CA-C	5.24	121.95	110.80
2	DF	128	ASP	N-CA-C	5.23	121.94	110.80
2	IB	128	ASP	N-CA-C	5.23	121.94	110.80
2	ED	128	ASP	N-CA-C	5.23	121.93	110.80
2	HB	128	ASP	N-CA-C	5.22	121.93	110.80
2	KF	128	ASP	N-CA-C	5.22	121.93	110.80
2	BB	128	ASP	N-CA-C	5.22	121.92	110.80
2	FD	128	ASP	N-CA-C	5.22	121.93	110.80
2	KD	128	ASP	N-CA-C	5.22	121.92	110.80
2	AF	128	ASP	N-CA-C	5.22	121.92	110.80
2	FF	128	ASP	N-CA-C	5.22	121.92	110.80
2	JD	128	ASP	N-CA-C	5.22	121.92	110.80
2	CF	128	ASP	N-CA-C	5.22	121.91	110.80
2	AB	128	ASP	N-CA-C	5.22	121.91	110.80
2	BF	128	ASP	N-CA-C	5.22	121.91	110.80
2	GF	128	ASP	N-CA-C	5.22	121.91	110.80
2	MF	128	ASP	N-CA-C	5.22	121.91	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	HF	128	ASP	N-CA-C	5.21	121.91	110.80
7	5B	811	GLN	CA-C-N	5.21	131.50	121.54
7	5B	811	GLN	C-N-CA	5.21	131.50	121.54
2	IF	128	ASP	N-CA-C	5.21	121.90	110.80
7	5A	811	GLN	CA-C-N	5.21	131.50	121.54
7	5A	811	GLN	C-N-CA	5.21	131.50	121.54
2	CD	128	ASP	N-CA-C	5.21	121.89	110.80
2	JB	128	ASP	N-CA-C	5.21	121.89	110.80
2	LB	128	ASP	N-CA-C	5.21	121.89	110.80
2	CB	128	ASP	N-CA-C	5.20	121.88	110.80
2	LD	128	ASP	N-CA-C	5.20	121.88	110.80
2	GD	128	ASP	N-CA-C	5.20	121.88	110.80
2	ID	128	ASP	N-CA-C	5.20	121.88	110.80
2	LF	128	ASP	N-CA-C	5.20	121.88	110.80
7	5C	1396	GLN	N-CA-C	5.20	121.88	110.80
2	AD	128	ASP	N-CA-C	5.20	121.87	110.80
2	HD	128	ASP	N-CA-C	5.20	121.88	110.80
2	MB	128	ASP	N-CA-C	5.20	121.87	110.80
7	5B	1396	GLN	N-CA-C	5.19	121.86	110.80
7	5C	811	GLN	CA-C-N	5.19	131.46	121.54
7	5C	811	GLN	C-N-CA	5.19	131.46	121.54
7	5A	1396	GLN	N-CA-C	5.19	121.85	110.80
7	5B	800	LYS	N-CA-C	5.19	116.93	111.28
7	5A	800	LYS	N-CA-C	5.18	116.92	111.28
6	4A	234	SER	N-CA-C	5.17	116.92	111.28
6	4D	234	SER	N-CA-C	5.16	116.91	111.28
6	4A	106	ALA	CA-C-N	5.15	127.70	120.28
6	4A	106	ALA	C-N-CA	5.15	127.70	120.28
6	4B	234	SER	N-CA-C	5.15	116.89	111.28
6	4C	234	SER	N-CA-C	5.14	116.88	111.28
6	4D	106	ALA	CA-C-N	5.14	127.68	120.28
6	4D	106	ALA	C-N-CA	5.14	127.68	120.28
7	5C	800	LYS	N-CA-C	5.13	116.88	111.28
6	4B	106	ALA	CA-C-N	5.13	127.67	120.28
6	4B	106	ALA	C-N-CA	5.13	127.67	120.28
7	5B	1470	LYS	CA-C-O	-5.13	115.11	120.55
6	4C	106	ALA	CA-C-N	5.12	127.66	120.28
6	4C	106	ALA	C-N-CA	5.12	127.66	120.28
7	5A	1470	LYS	CA-C-O	-5.12	115.13	120.55
7	5C	1470	LYS	CA-C-O	-5.12	115.13	120.55
6	4C	232	LYS	CA-C-N	5.11	131.29	121.54
6	4C	232	LYS	C-N-CA	5.11	131.29	121.54

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4B	232	LYS	CA-C-N	5.11	131.29	121.54
6	4B	232	LYS	C-N-CA	5.11	131.29	121.54
6	4D	111	GLU	N-CA-C	-5.11	105.95	113.61
6	4B	217	ASN	N-CA-C	5.10	119.49	113.16
6	4A	232	LYS	CA-C-N	5.10	131.28	121.54
6	4A	232	LYS	C-N-CA	5.10	131.28	121.54
6	4D	217	ASN	N-CA-C	5.10	119.48	113.16
6	4B	111	GLU	N-CA-C	-5.09	105.97	113.61
6	4D	232	LYS	CA-C-N	5.09	131.26	121.54
6	4D	232	LYS	C-N-CA	5.09	131.26	121.54
6	4A	111	GLU	N-CA-C	-5.08	106.00	113.61
6	4C	111	GLU	N-CA-C	-5.07	106.00	113.61
6	4C	217	ASN	N-CA-C	5.07	119.45	113.16
6	4A	217	ASN	N-CA-C	5.07	119.44	113.16
2	GD	126	GLY	N-CA-C	5.03	118.76	112.73
7	5C	1407	GLN	CA-C-N	-5.02	113.17	120.29
7	5C	1407	GLN	C-N-CA	-5.02	113.17	120.29
7	5B	1407	GLN	CA-C-N	-5.01	113.17	120.29
7	5B	1407	GLN	C-N-CA	-5.01	113.17	120.29
7	5A	1407	GLN	CA-C-N	-5.01	113.17	120.29
7	5A	1407	GLN	C-N-CA	-5.01	113.17	120.29
2	ID	126	GLY	N-CA-C	5.01	118.74	112.73
2	MF	126	GLY	N-CA-C	5.01	118.74	112.73

There are no chirality outliers.

All (25) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	2A	142	LEU	Mainchain
4	2B	142	LEU	Mainchain
4	2C	142	LEU	Mainchain
4	2C	144	ASN	Peptide
7	5A	1253	ILE	Mainchain
7	5A	1278	GLY	Mainchain
7	5A	1279	ASP	Mainchain
7	5A	1280	SER	Mainchain
7	5A	1281	ASN	Mainchain
7	5A	1282	GLN	Mainchain
7	5A	1283	ALA	Mainchain
7	5B	1253	ILE	Mainchain
7	5B	1278	GLY	Mainchain
7	5B	1279	ASP	Mainchain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
7	5B	1280	SER	Mainchain
7	5B	1281	ASN	Mainchain
7	5B	1282	GLN	Mainchain
7	5B	1283	ALA	Mainchain
7	5C	1253	ILE	Mainchain
7	5C	1278	GLY	Mainchain
7	5C	1279	ASP	Mainchain
7	5C	1280	SER	Mainchain
7	5C	1281	ASN	Mainchain
7	5C	1282	GLN	Mainchain
7	5C	1283	ALA	Mainchain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	3350	0	3287	97	0
1	AC	3350	0	3284	169	0
1	AE	3350	0	3282	192	0
1	BA	3350	0	3285	101	0
1	BC	3350	0	3282	168	0
1	BE	3350	0	3281	171	0
1	CA	3350	0	3284	117	0
1	CC	3350	0	3280	189	0
1	CE	3350	0	3280	190	0
1	DA	3350	0	3278	138	0
1	DC	3350	0	3276	211	0
1	DE	3350	0	3275	212	0
1	EA	3350	0	3281	157	0
1	EC	3350	0	3279	216	0
1	EE	3350	0	3279	226	0
1	FA	3350	0	3277	235	0
1	FC	3350	0	3274	277	0
1	FE	3350	0	3276	269	0
1	GA	3350	0	3284	181	0
1	GC	3350	0	3279	234	0
1	GE	3350	0	3278	227	0
1	HA	3350	0	3286	144	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	HC	3350	0	3283	243	0
1	HE	3350	0	3283	259	0
1	IA	3350	0	3282	169	0
1	IC	3350	0	3279	247	0
1	IE	3350	0	3279	215	0
1	JA	3350	0	3283	158	0
1	JC	3350	0	3278	221	0
1	JE	3350	0	3278	231	0
1	KA	3350	0	3283	219	0
1	KC	3350	0	3282	283	0
1	KE	3350	0	3281	266	0
1	LA	3350	0	3281	234	0
1	LC	3350	0	3277	315	0
1	LE	3350	0	3277	275	0
1	MA	3350	0	3286	176	0
1	MC	3350	0	3283	235	0
1	ME	3350	0	3283	231	0
2	AB	3366	0	3252	166	0
2	AD	3366	0	3246	262	0
2	AF	3366	0	3248	182	0
2	BB	3366	0	3254	182	0
2	BD	3366	0	3254	181	0
2	BF	3366	0	3254	109	0
2	CB	3366	0	3255	204	0
2	CD	3366	0	3255	205	0
2	CF	3366	0	3255	129	0
2	DB	3366	0	3252	214	0
2	DD	3366	0	3252	221	0
2	DF	3366	0	3252	137	0
2	EB	3366	0	3253	240	0
2	ED	3366	0	3252	242	0
2	EF	3366	0	3252	165	0
2	FB	3366	0	3250	254	0
2	FD	3366	0	3250	242	0
2	FF	3366	0	3250	170	0
2	GB	3366	0	3251	242	0
2	GD	3366	0	3251	220	0
2	GF	3366	0	3252	147	0
2	HB	3366	0	3255	197	0
2	HD	3366	0	3255	190	0
2	HF	3366	0	3255	120	0
2	IB	3366	0	3254	194	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	ID	3366	0	3254	185	0
2	IF	3366	0	3255	123	0
2	JB	3366	0	3254	209	0
2	JD	3366	0	3254	198	0
2	JF	3366	0	3254	138	0
2	KB	3366	0	3248	356	0
2	KD	3366	0	3246	348	0
2	KF	3366	0	3246	290	0
2	LB	3366	0	3241	435	0
2	LD	3366	0	3244	399	0
2	LF	3366	0	3249	355	0
2	MB	3366	0	3255	242	0
2	MD	3366	0	3256	225	0
2	MF	3366	0	3256	145	0
3	1A	1141	0	1144	37	0
3	1B	1141	0	1145	23	0
3	1C	1141	0	1144	14	0
4	2A	1615	0	1664	170	0
4	2B	1615	0	1665	183	0
4	2C	1615	0	1662	215	0
5	3A	2752	0	2802	129	0
5	3B	2752	0	2807	46	0
5	3C	2752	0	2802	129	0
6	4A	1587	0	1558	487	0
6	4B	1587	0	1561	408	0
6	4C	1587	0	1562	349	0
6	4D	1587	0	1569	339	0
7	5A	5953	0	6017	966	0
7	5B	5953	0	6016	943	0
7	5C	5953	0	6016	953	0
8	6A	2077	0	2097	86	0
8	6B	2077	0	2098	87	0
8	6C	2077	0	2099	93	0
9	7A	383	0	390	151	0
9	7B	383	0	392	155	0
9	7C	383	0	390	131	0
9	7D	383	0	392	155	0
9	7E	383	0	391	105	0
9	7F	383	0	392	109	0
10	8A	189	0	41	8	0
10	8B	189	0	41	7	0
10	8C	189	0	40	3	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	8D	189	0	41	18	0
10	8E	189	0	41	16	0
10	8F	189	0	40	10	0
10	8G	189	0	41	9	0
10	8H	189	0	41	9	0
10	8I	189	0	40	6	0
10	8J	189	0	41	14	0
10	8K	189	0	41	14	0
10	8L	189	0	40	11	0
10	8M	189	0	41	10	0
10	8N	189	0	41	10	0
10	8O	189	0	40	7	0
10	8P	189	0	41	10	0
10	8Q	189	0	41	6	0
10	8R	189	0	40	5	0
10	8S	189	0	41	20	0
10	8T	189	0	40	23	0
10	8U	189	0	39	33	0
10	8V	189	0	41	45	0
10	8W	189	0	41	34	0
10	8X	189	0	40	19	0
10	8Y	189	0	40	25	0
10	8Z	189	0	40	31	0
10	9A	189	0	38	26	0
11	AA	32	0	12	0	0
11	AC	32	0	12	0	0
11	AE	32	0	12	0	0
11	BA	32	0	12	0	0
11	BC	32	0	12	0	0
11	BE	32	0	12	0	0
11	CA	32	0	12	0	0
11	CC	32	0	12	0	0
11	CE	32	0	12	0	0
11	DA	32	0	12	0	0
11	DC	32	0	12	0	0
11	DE	32	0	12	0	0
11	EA	32	0	12	0	0
11	EC	32	0	12	0	0
11	EE	32	0	12	0	0
11	FA	32	0	12	0	0
11	FC	32	0	12	0	0
11	FE	32	0	12	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	GA	32	0	12	0	0
11	GC	32	0	12	0	0
11	GE	32	0	12	0	0
11	HA	32	0	12	0	0
11	HC	32	0	12	0	0
11	HE	32	0	12	0	0
11	IA	32	0	12	0	0
11	IC	32	0	12	0	0
11	IE	32	0	12	0	0
11	JA	32	0	12	0	0
11	JC	32	0	12	0	0
11	JE	32	0	12	0	0
11	KA	32	0	12	0	0
11	KC	32	0	12	0	0
11	KE	32	0	12	0	0
11	LA	32	0	12	0	0
11	LC	32	0	12	0	0
11	LE	32	0	12	0	0
11	MA	32	0	12	1	0
11	MC	32	0	12	1	0
11	ME	32	0	12	0	0
12	AA	1	0	0	0	0
12	AC	1	0	0	0	0
12	AE	1	0	0	0	0
12	BA	1	0	0	0	0
12	BC	1	0	0	0	0
12	BE	1	0	0	0	0
12	CA	1	0	0	0	0
12	CC	1	0	0	0	0
12	CE	1	0	0	0	0
12	DA	1	0	0	0	0
12	DC	1	0	0	0	0
12	DE	1	0	0	0	0
12	EA	1	0	0	0	0
12	ED	1	0	0	0	0
12	EE	1	0	0	0	0
12	FB	1	0	0	0	0
12	FD	1	0	0	0	0
12	FE	1	0	0	0	0
12	GA	1	0	0	0	0
12	GC	1	0	0	0	0
12	GE	1	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	HA	1	0	0	0	0
12	HC	1	0	0	0	0
12	HE	1	0	0	0	0
12	IA	1	0	0	0	0
12	IC	1	0	0	0	0
12	IE	1	0	0	0	0
12	JA	1	0	0	0	0
12	JC	1	0	0	0	0
12	JE	1	0	0	0	0
12	KA	1	0	0	0	0
12	KC	1	0	0	0	0
12	KE	1	0	0	0	0
12	LA	1	0	0	0	0
12	LC	1	0	0	0	0
12	LE	1	0	0	0	0
12	MB	1	0	0	0	0
12	MD	1	0	0	0	0
12	MF	1	0	0	0	0
13	AB	28	0	12	2	0
13	AD	28	0	12	2	0
13	AF	28	0	12	1	0
13	BB	28	0	12	3	0
13	BD	28	0	12	3	0
13	BF	28	0	12	2	0
13	CB	28	0	12	3	0
13	CD	28	0	12	3	0
13	CF	28	0	12	2	0
13	DB	28	0	12	3	0
13	DD	28	0	12	3	0
13	DF	28	0	12	2	0
13	EB	28	0	12	4	0
13	ED	28	0	12	4	0
13	EF	28	0	12	2	0
13	FB	28	0	12	4	0
13	FD	28	0	12	4	0
13	FF	28	0	12	2	0
13	GB	28	0	12	3	0
13	GD	28	0	12	3	0
13	GF	28	0	12	2	0
13	HB	28	0	12	3	0
13	HD	28	0	12	3	0
13	HF	28	0	12	2	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	IB	28	0	12	3	0
13	ID	28	0	12	3	0
13	IF	28	0	12	2	0
13	JB	28	0	12	3	0
13	JD	28	0	12	3	0
13	JF	28	0	12	2	0
13	KB	28	0	12	3	0
13	KD	28	0	12	3	0
13	KF	28	0	12	2	0
13	LB	28	0	12	2	0
13	LD	28	0	12	2	0
13	LF	28	0	12	2	0
13	MB	28	0	12	2	0
13	MD	28	0	12	2	0
13	MF	28	0	12	2	0
All	All	318666	0	306569	15548	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 25.

All (15548) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DD:212:PHE:CZ	1:DE:326:LYS:HD3	1.22	1.73
2:KB:217:LEU:HD22	6:4A:263:CYS:SG	1.30	1.72
2:DB:212:PHE:CZ	1:DC:326:LYS:HD3	1.24	1.68
2:ED:125:GLU:CA	7:5A:903:PHE:CE2	1.76	1.67
2:ED:212:PHE:CZ	1:EE:326:LYS:HD3	1.27	1.67
2:CB:86:ARG:HA	2:DB:281:TYR:CE1	1.23	1.66
2:LB:212:PHE:CZ	1:LC:326:LYS:HD3	1.31	1.65
1:FE:282:TYR:CE2	10:8O:18:UNK:CB	1.80	1.65
2:BD:212:PHE:CZ	1:BE:326:LYS:HD3	1.29	1.65
9:7A:7:LEU:HD22	9:7B:27:GLY:CA	1.27	1.65
2:EB:212:PHE:CZ	1:EC:326:LYS:HD3	1.28	1.64
2:CB:212:PHE:CZ	1:CC:326:LYS:HD3	1.23	1.63
2:CD:212:PHE:CZ	1:CE:326:LYS:HD3	1.27	1.63
2:FB:55:THR:CG2	2:GB:284:LEU:H	1.07	1.63
9:7C:7:LEU:HD22	9:7D:27:GLY:CA	1.27	1.62
7:5B:1548:VAL:CG1	7:5B:1566:GLU:HA	1.15	1.62
2:CD:86:ARG:HA	2:DD:281:TYR:CE1	1.22	1.62
2:ED:125:GLU:HA	7:5A:903:PHE:CE2	1.20	1.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:89:PRO:CG	1:GA:280:LYS:HD2	1.20	1.62
7:5A:1548:VAL:CG1	7:5A:1566:GLU:HA	1.15	1.62
1:FA:89:PRO:CD	1:GA:280:LYS:HD2	1.24	1.61
7:5C:1548:VAL:CG1	7:5C:1566:GLU:HA	1.15	1.61
2:FB:54:ALA:CA	2:GB:283:ALA:HB2	1.26	1.61
2:CF:86:ARG:HA	2:DF:281:TYR:CE1	1.23	1.60
2:LF:55:THR:HG23	2:MF:283:ALA:CA	1.16	1.60
2:EB:125:GLU:HA	7:5C:903:PHE:CE2	1.15	1.60
9:7C:11:TYR:CD1	9:7D:26:LEU:HD23	1.36	1.60
2:KB:77:ARG:HG2	2:LB:281:TYR:CZ	1.34	1.59
7:5C:1487:ASN:CB	7:5C:1568:LYS:HE2	1.23	1.59
2:KD:221:THR:HG21	6:4B:261:SER:C	1.23	1.59
1:EA:396:ASP:CB	7:5C:817:LEU:HD21	1.13	1.59
1:FC:177:VAL:HG23	7:5A:915:PHE:CE2	1.11	1.59
7:5A:1487:ASN:CB	7:5A:1568:LYS:HE2	1.23	1.59
2:BB:212:PHE:CZ	1:BC:326:LYS:HD3	1.30	1.59
7:5B:1487:ASN:CB	7:5B:1568:LYS:HE2	1.23	1.59
2:AF:227:HIS:CE1	6:4A:135:LEU:HD11	1.31	1.58
1:KC:79:ARG:HB3	1:LC:280:LYS:CE	1.26	1.58
9:7A:11:TYR:CD1	9:7B:26:LEU:HD23	1.36	1.58
2:AD:358:PRO:C	6:4C:151:ARG:HH21	1.10	1.58
2:CB:86:ARG:HA	2:DB:281:TYR:CZ	1.38	1.58
1:DC:402:ARG:CZ	7:5A:777:ALA:HB3	1.33	1.58
2:LB:379:LYS:CB	4:2C:166:ILE:HD12	1.33	1.58
2:EB:125:GLU:CA	7:5C:903:PHE:CE2	1.77	1.58
1:FE:177:VAL:HG23	7:5B:915:PHE:CE2	1.09	1.58
1:EA:396:ASP:HB3	7:5C:817:LEU:CD2	1.13	1.57
2:LB:55:THR:CG2	2:MB:283:ALA:HA	1.29	1.57
9:7C:7:LEU:CD2	9:7D:27:GLY:CA	1.82	1.57
2:LD:231:ALA:HB2	6:4B:226:ILE:CD1	1.33	1.57
10:8Y:38:UNK:C	10:8Z:1:UNK:H2	0.93	1.57
2:GB:212:PHE:CZ	1:GC:326:LYS:HD3	1.38	1.57
2:LD:55:THR:CG2	2:MD:283:ALA:HA	1.30	1.57
7:5A:1284:PHE:CZ	9:7A:12:GLU:HB3	1.33	1.56
2:LB:379:LYS:CB	4:2C:166:ILE:CD1	1.77	1.56
2:HB:212:PHE:CZ	1:HC:326:LYS:HD3	1.38	1.56
10:8M:38:UNK:C	10:8N:1:UNK:H2	0.93	1.56
10:8J:38:UNK:C	10:8K:1:UNK:H2	0.93	1.56
2:KB:215:LEU:CD1	6:4A:267:ILE:HG22	1.36	1.56
9:7A:15:VAL:CG1	9:7B:35:ILE:CD1	1.79	1.55
10:8A:38:UNK:C	10:8B:1:UNK:H2	0.93	1.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:177:VAL:CG2	7:5C:915:PHE:HE2	1.14	1.55
1:FA:177:VAL:HG23	7:5C:915:PHE:CE2	1.04	1.55
10:8S:38:UNK:C	10:8T:1:UNK:H2	0.93	1.55
1:FA:282:TYR:CE2	10:8M:18:UNK:CB	1.87	1.55
9:7A:7:LEU:CD2	9:7B:27:GLY:CA	1.82	1.55
10:8P:38:UNK:C	10:8Q:1:UNK:H2	0.93	1.55
2:CD:86:ARG:HA	2:DD:281:TYR:CZ	1.40	1.54
2:FD:212:PHE:CZ	1:FE:326:LYS:HD3	1.40	1.54
2:KB:87:PRO:CG	2:LB:282:ARG:HG3	1.19	1.54
2:LB:55:THR:HG23	2:MB:283:ALA:CA	1.10	1.54
2:LB:231:ALA:HB2	6:4A:226:ILE:CD1	1.29	1.54
10:8V:38:UNK:C	10:8W:1:UNK:H2	0.93	1.54
2:HD:212:PHE:CZ	1:HE:326:LYS:HD3	1.41	1.54
2:KB:212:PHE:CZ	1:KC:326:LYS:HD3	1.38	1.54
2:LB:306:ARG:CZ	4:2C:151:VAL:HG23	1.34	1.54
2:LB:379:LYS:CA	4:2C:166:ILE:CD1	1.85	1.54
4:2B:16:GLN:CA	4:2B:19:MET:HB2	1.36	1.54
2:AB:212:PHE:CZ	1:AC:326:LYS:HD3	1.38	1.54
2:IB:212:PHE:CZ	1:IC:326:LYS:HD3	1.38	1.54
2:KB:55:THR:HG21	2:LB:363:MET:CE	1.35	1.54
10:8D:38:UNK:C	10:8E:1:UNK:H2	0.93	1.54
2:GD:212:PHE:CZ	1:GE:326:LYS:HD3	1.41	1.54
1:GE:409:VAL:HG11	5:3A:383:GLU:CD	1.30	1.53
2:ID:212:PHE:CZ	1:IE:326:LYS:HD3	1.41	1.53
2:KD:212:PHE:CZ	1:KE:326:LYS:HD3	1.41	1.53
4:2A:16:GLN:CA	4:2A:19:MET:HB2	1.36	1.53
7:5A:1284:PHE:CZ	9:7A:12:GLU:CB	1.89	1.53
2:CB:86:ARG:CA	2:DB:281:TYR:CE1	1.88	1.53
1:DA:402:ARG:CZ	7:5C:777:ALA:HB3	1.34	1.53
1:FE:177:VAL:CG2	7:5B:915:PHE:HE2	1.20	1.53
1:KC:79:ARG:CG	1:LC:280:LYS:NZ	1.68	1.53
4:2C:16:GLN:CA	4:2C:19:MET:HB2	1.36	1.53
2:KB:54:ALA:CB	2:LB:285:THR:CG2	1.79	1.53
1:LC:60:LYS:CB	6:4A:101:ARG:NH1	1.67	1.53
10:8G:38:UNK:C	10:8H:1:UNK:H2	0.93	1.53
2:GB:55:THR:CG2	2:HB:283:ALA:HA	1.07	1.53
1:IC:278:ALA:HB2	10:8W:21:UNK:CB	1.36	1.53
2:AD:227:HIS:CE1	6:4C:135:LEU:HD11	1.41	1.53
2:JB:212:PHE:CZ	1:JC:326:LYS:HD3	1.38	1.53
2:LD:55:THR:HG23	2:MD:283:ALA:CA	1.09	1.53
2:KD:77:ARG:HG2	2:LD:281:TYR:CZ	1.39	1.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:86:ARG:CA	2:DF:281:TYR:CE1	1.88	1.52
1:IC:58:ALA:CB	10:8Z:13:UNK:HA	1.35	1.52
2:JD:212:PHE:CZ	1:JE:326:LYS:HD3	1.41	1.52
1:FA:60:LYS:HD3	1:GA:283:HIS:CA	1.39	1.52
1:IC:58:ALA:CB	10:8Z:13:UNK:CA	1.85	1.52
2:LD:212:PHE:CZ	1:LE:326:LYS:HD3	1.41	1.52
9:7C:15:VAL:CG1	9:7D:35:ILE:CD1	1.79	1.52
1:FA:60:LYS:CD	1:GA:283:HIS:HA	1.40	1.52
2:KD:87:PRO:CG	2:LD:282:ARG:HG3	1.38	1.52
2:LF:55:THR:CG2	2:MF:283:ALA:HA	1.35	1.52
2:CD:86:ARG:CA	2:DD:281:TYR:CE1	1.88	1.51
1:JC:370:LYS:HE3	10:8Z:17:UNK:CB	1.10	1.51
2:KB:273:LEU:HA	6:4A:268:LEU:CD2	1.33	1.51
7:5B:1491:LEU:HD13	7:5B:1495:PHE:CD1	1.44	1.51
9:7C:15:VAL:HG12	9:7D:35:ILE:CD1	1.32	1.51
2:EB:125:GLU:HA	7:5C:903:PHE:CZ	1.45	1.51
1:FA:89:PRO:HG3	1:GA:280:LYS:CD	1.40	1.51
2:FB:54:ALA:C	2:GB:283:ALA:HB2	1.24	1.51
1:FC:177:VAL:CG2	7:5A:915:PHE:HE2	1.23	1.51
2:LF:231:ALA:HB2	6:4D:226:ILE:CD1	1.41	1.51
1:EA:430:LYS:CE	7:5C:834:ASN:HD22	1.19	1.51
2:GB:55:THR:HG23	2:HB:283:ALA:CB	1.41	1.51
2:KD:273:LEU:HA	6:4B:268:LEU:CD2	1.40	1.51
7:5A:1491:LEU:HD13	7:5A:1495:PHE:CD1	1.44	1.51
2:JF:86:ARG:NH2	2:KF:280:GLN:CB	1.68	1.51
1:CC:370:LYS:NZ	10:8E:17:UNK:CB	1.69	1.50
1:FC:282:TYR:CE2	10:8N:18:UNK:CB	1.94	1.50
1:JC:370:LYS:CE	10:8Z:17:UNK:CB	1.87	1.50
7:5C:1491:LEU:HD13	7:5C:1495:PHE:CD1	1.44	1.50
2:CF:86:ARG:HA	2:DF:281:TYR:CZ	1.42	1.50
1:CA:370:LYS:NZ	10:8D:17:UNK:CB	1.74	1.50
2:FB:98:GLY:HA2	1:FC:254:GLU:CG	1.38	1.50
2:KF:77:ARG:HG2	2:LF:281:TYR:CZ	1.47	1.49
2:KF:221:THR:HG21	6:4D:261:SER:C	1.27	1.49
9:7A:15:VAL:HA	9:7B:35:ILE:CD1	1.42	1.49
9:7C:15:VAL:HA	9:7D:35:ILE:CD1	1.42	1.49
1:JE:370:LYS:HE3	10:9A:17:UNK:CB	1.37	1.49
4:2B:16:GLN:HA	4:2B:19:MET:CB	1.37	1.49
4:2C:16:GLN:HA	4:2C:19:MET:CB	1.37	1.49
2:AD:212:PHE:CZ	1:AE:326:LYS:HD3	1.41	1.49
2:JB:55:THR:CG2	2:KB:362:LYS:NZ	1.74	1.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2A:16:GLN:HA	4:2A:19:MET:CB	1.37	1.49
7:5C:1491:LEU:CD1	7:5C:1495:PHE:CD1	1.96	1.49
7:5A:1490:LYS:HD2	7:5A:1494:LEU:CB	1.43	1.48
7:5A:1491:LEU:CD1	7:5A:1495:PHE:CD1	1.96	1.48
7:5B:1490:LYS:HD2	7:5B:1494:LEU:CB	1.43	1.48
7:5C:1490:LYS:HD2	7:5C:1494:LEU:CB	1.43	1.48
2:ED:177:ASP:CG	1:EE:353:VAL:CG1	1.84	1.48
2:HF:261:PRO:HB2	5:3A:337:ARG:NH2	1.18	1.48
1:CC:370:LYS:CE	10:8E:17:UNK:CB	1.91	1.48
2:MD:212:PHE:CZ	1:ME:326:LYS:HD3	1.49	1.48
5:3B:229:PHE:CE2	5:3B:331:GLN:HB3	1.45	1.48
5:3C:229:PHE:CE2	5:3C:331:GLN:HB3	1.45	1.48
7:5B:1491:LEU:CD1	7:5B:1495:PHE:CD1	1.96	1.48
1:FA:422:ARG:HH21	7:5C:1170:THR:C	1.15	1.48
5:3A:229:PHE:CE2	5:3A:331:GLN:HB3	1.45	1.48
1:JC:89:PRO:CB	1:KC:280:LYS:HG2	1.17	1.48
2:KD:86:ARG:HH12	2:LD:283:ALA:CB	1.24	1.47
2:EB:177:ASP:CG	1:EC:353:VAL:CG1	1.86	1.47
9:7A:15:VAL:HG12	9:7B:35:ILE:CD1	1.32	1.47
1:JC:88:HIS:CE1	1:KC:280:LYS:O	1.66	1.47
2:LD:306:ARG:NH2	4:2A:151:VAL:HG23	1.23	1.47
1:LE:60:LYS:HD2	6:4B:101:ARG:NH2	1.28	1.47
2:ED:125:GLU:HA	7:5A:903:PHE:CZ	1.49	1.46
2:LB:224:ASP:N	6:4A:219:ASN:ND2	1.63	1.46
2:LF:77:ARG:NH1	6:4D:204:ARG:NH2	1.63	1.46
2:DD:212:PHE:HZ	1:DE:326:LYS:CD	1.28	1.46
1:FE:422:ARG:HH21	7:5B:1170:THR:C	1.16	1.46
1:JE:279:GLU:CD	10:9A:22:UNK:HA	1.36	1.46
2:KD:221:THR:CG2	6:4B:261:SER:C	1.86	1.46
7:5C:1552:LYS:NZ	7:5C:1563:SER:CB	1.77	1.46
2:FD:177:ASP:CG	1:FE:353:VAL:CG1	1.85	1.45
1:FE:402:ARG:HH22	7:5B:1262:GLU:CD	1.21	1.45
2:LD:306:ARG:CZ	4:2A:151:VAL:HG23	1.45	1.45
1:LC:176:GLN:NE2	4:2A:42:PHE:CG	1.81	1.45
2:KD:54:ALA:HB1	2:LD:285:THR:CG2	1.42	1.45
7:5A:1552:LYS:NZ	7:5A:1563:SER:CB	1.77	1.45
2:BD:177:ASP:CG	1:BE:353:VAL:CG1	1.90	1.45
1:CE:282:TYR:CE2	10:8F:18:UNK:CB	1.96	1.45
2:DB:177:ASP:CG	1:DC:353:VAL:CG1	1.89	1.45
1:FC:422:ARG:HH21	7:5A:1170:THR:C	1.17	1.45
2:ID:86:ARG:HA	2:JD:281:TYR:CE1	1.51	1.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LD:224:ASP:N	6:4B:219:ASN:ND2	1.65	1.45
2:MF:221:THR:CG2	6:4D:189:ARG:HH22	1.28	1.45
1:FE:101:ASN:ND2	2:FF:252:LYS:HD2	1.12	1.44
2:EF:125:GLU:HG2	7:5B:903:PHE:CE2	1.52	1.44
7:5A:1530:ILE:CD1	7:5A:1571:MET:HE1	1.48	1.44
7:5B:1530:ILE:CD1	7:5B:1571:MET:HE1	1.48	1.44
1:EE:370:LYS:NZ	10:8L:17:UNK:CB	1.80	1.44
2:FF:428:ALA:HB1	7:5B:1080:PHE:CE1	1.51	1.44
1:IA:282:TYR:HE2	10:8V:19:UNK:N	1.15	1.44
1:IC:101:ASN:ND2	2:ID:252:LYS:CD	1.80	1.44
7:5B:1552:LYS:NZ	7:5B:1563:SER:CB	1.77	1.44
7:5C:1530:ILE:CD1	7:5C:1571:MET:HE1	1.48	1.44
2:CB:212:PHE:HZ	1:CC:326:LYS:CD	1.28	1.44
2:EF:125:GLU:CA	7:5B:903:PHE:CE2	1.76	1.44
2:FB:212:PHE:CZ	1:FC:326:LYS:HD3	1.51	1.44
1:IA:402:ARG:NH2	7:5C:1417:GLN:CG	1.81	1.44
2:JF:86:ARG:CZ	2:KF:280:GLN:CB	1.96	1.44
7:5B:1284:PHE:CZ	9:7C:12:GLU:CB	1.99	1.44
9:7A:30:ARG:NH1	9:7B:3:GLN:HA	1.32	1.44
2:AF:358:PRO:C	6:4A:151:ARG:HH21	1.23	1.44
2:DD:177:ASP:CG	1:DE:353:VAL:CG1	1.88	1.44
1:FA:402:ARG:HH22	7:5C:1262:GLU:CD	1.26	1.44
2:FB:177:ASP:CG	1:FC:353:VAL:CG1	1.88	1.44
1:JA:89:PRO:CG	1:KA:280:LYS:HG2	1.45	1.44
2:LD:77:ARG:NH1	6:4B:204:ARG:NH2	1.64	1.44
7:5B:1487:ASN:HB3	7:5B:1568:LYS:CE	1.43	1.44
2:DB:212:PHE:HZ	1:DC:326:LYS:CD	1.29	1.43
1:DE:402:ARG:CZ	7:5B:777:ALA:HB3	1.45	1.43
2:KD:125:GLU:HG3	2:LD:336:LYS:CE	1.48	1.43
2:JD:86:ARG:NH2	2:KD:280:GLN:HB2	1.21	1.43
1:LE:176:GLN:NE2	4:2B:42:PHE:CG	1.80	1.43
2:MB:212:PHE:CZ	1:MC:326:LYS:HD3	1.53	1.43
2:MD:221:THR:HG21	6:4B:189:ARG:NH2	1.25	1.43
7:5A:1487:ASN:HB3	7:5A:1568:LYS:CE	1.43	1.43
1:EC:423:GLU:OE2	7:5A:830:VAL:CG1	1.65	1.43
2:JB:87:PRO:CG	2:KB:277:GLY:O	1.66	1.43
7:5B:1284:PHE:HZ	9:7C:12:GLU:CB	1.29	1.43
7:5C:1284:PHE:HZ	9:7E:12:GLU:CB	1.30	1.43
9:7C:30:ARG:NH1	9:7D:3:GLN:HA	1.32	1.43
2:BD:212:PHE:HZ	1:BE:326:LYS:CD	1.32	1.43
1:GE:409:VAL:CG1	5:3A:383:GLU:OE2	1.67	1.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JA:89:PRO:HB2	1:KA:280:LYS:CG	1.44	1.43
7:5C:1284:PHE:CZ	9:7E:12:GLU:CB	1.99	1.43
10:8J:38:UNK:C	10:8K:1:UNK:N	1.77	1.43
2:LB:306:ARG:NE	4:2C:149:ILE:HG22	1.34	1.43
1:LC:89:PRO:HD3	1:MC:280:LYS:NZ	1.17	1.43
7:5C:1487:ASN:HB3	7:5C:1568:LYS:CE	1.43	1.43
1:AC:101:ASN:ND2	2:AD:252:LYS:CD	1.80	1.42
2:CD:212:PHE:HZ	1:CE:326:LYS:CD	1.31	1.42
1:FC:419:SER:CB	7:5A:1256:ARG:NE	1.79	1.42
1:GC:409:VAL:HG11	5:3C:383:GLU:CD	1.43	1.42
2:HD:261:PRO:HB2	5:3C:337:ARG:NH2	1.10	1.42
1:JA:89:PRO:CG	1:KA:279:GLU:O	1.67	1.42
1:JC:101:ASN:ND2	2:JD:252:LYS:CD	1.80	1.42
2:KB:54:ALA:HB1	2:LB:285:THR:CG2	1.39	1.42
2:KD:217:LEU:HD22	6:4B:263:CYS:SG	1.57	1.42
2:LB:212:PHE:HZ	1:LC:326:LYS:CD	1.27	1.42
1:MA:372:MET:CE	6:4C:96:VAL:O	1.65	1.42
1:FC:101:ASN:ND2	2:FD:252:LYS:HD2	1.11	1.42
1:GC:101:ASN:ND2	2:GD:252:LYS:CD	1.80	1.42
2:IF:86:ARG:HA	2:JF:281:TYR:CE1	1.52	1.42
7:5C:1491:LEU:CD1	7:5C:1495:PHE:HD1	1.30	1.42
10:8A:38:UNK:C	10:8B:1:UNK:N	1.77	1.42
1:DC:402:ARG:NE	7:5A:777:ALA:CB	1.80	1.42
1:FE:419:SER:CB	7:5B:1256:ARG:NE	1.76	1.42
1:JE:91:GLN:N	1:KE:280:LYS:HZ2	1.11	1.42
2:KF:273:LEU:HA	6:4D:268:LEU:CD2	1.46	1.42
1:LA:176:GLN:NE2	4:2C:42:PHE:CG	1.84	1.42
7:5A:1491:LEU:CD1	7:5A:1495:PHE:HD1	1.30	1.42
10:8D:38:UNK:C	10:8E:1:UNK:N	1.77	1.42
1:GA:89:PRO:HD3	1:HA:280:LYS:NZ	1.14	1.42
1:HC:101:ASN:ND2	2:HD:252:LYS:CD	1.80	1.42
2:LB:231:ALA:CB	6:4A:226:ILE:HD13	1.48	1.42
1:LE:89:PRO:CD	1:ME:280:LYS:NZ	1.83	1.42
7:5B:1491:LEU:CD1	7:5B:1495:PHE:HD1	1.30	1.42
1:CA:370:LYS:CE	10:8D:17:UNK:CB	1.98	1.42
1:DA:402:ARG:NE	7:5C:777:ALA:CB	1.84	1.42
2:JB:86:ARG:NH2	2:KB:280:GLN:HB2	1.33	1.42
2:KD:125:GLU:CG	2:LD:336:LYS:NZ	1.80	1.42
2:KF:54:ALA:HB1	2:LF:285:THR:CG2	1.49	1.42
2:ED:212:PHE:HZ	1:EE:326:LYS:CD	1.32	1.41
2:FB:55:THR:CG2	2:GB:284:LEU:N	1.82	1.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FC:402:ARG:HH22	7:5A:1262:GLU:CD	1.25	1.41
1:LA:222:PRO:CD	2:LB:324:LYS:HD3	1.49	1.41
10:8Y:38:UNK:C	10:8Z:1:UNK:N	1.77	1.41
2:FB:54:ALA:HA	2:GB:283:ALA:CB	1.50	1.41
2:LF:416:ASN:O	4:2B:168:LEU:CD1	1.66	1.41
10:8M:38:UNK:C	10:8N:1:UNK:N	1.77	1.41
1:FA:419:SER:CB	7:5C:1256:ARG:NE	1.82	1.41
2:FD:98:GLY:HA2	1:FE:254:GLU:CG	1.48	1.41
2:KF:125:GLU:HG3	2:LF:336:LYS:CE	1.49	1.41
1:IC:278:ALA:CB	10:8W:21:UNK:CB	1.97	1.41
2:MF:221:THR:HG21	6:4D:189:ARG:NH2	1.15	1.41
7:5A:1548:VAL:HA	7:5A:1569:GLU:CD	1.46	1.41
2:KB:87:PRO:CG	2:LB:282:ARG:CG	1.96	1.41
2:LF:306:ARG:NH2	4:2B:151:VAL:HG23	1.19	1.41
7:5B:1548:VAL:HA	7:5B:1569:GLU:CD	1.46	1.41
7:5C:1548:VAL:HA	7:5C:1569:GLU:CD	1.46	1.41
10:8V:38:UNK:C	10:8W:1:UNK:N	1.77	1.40
2:BB:212:PHE:HZ	1:BC:326:LYS:CD	1.32	1.40
2:EB:212:PHE:HZ	1:EC:326:LYS:CD	1.32	1.40
2:FF:55:THR:HG23	2:GF:283:ALA:CA	1.49	1.40
1:JC:279:GLU:CD	10:8Z:22:UNK:HA	1.46	1.40
2:JF:86:ARG:NH2	2:KF:280:GLN:HB2	1.07	1.40
1:LA:60:LYS:HD2	6:4C:101:ARG:NH2	1.31	1.40
2:AB:177:ASP:CG	1:AC:353:VAL:CG1	1.95	1.40
2:HB:177:ASP:CG	1:HC:353:VAL:CG1	1.95	1.40
1:KC:101:ASN:ND2	2:KD:252:LYS:CD	1.80	1.40
2:BB:177:ASP:CG	1:BC:353:VAL:CG1	1.94	1.40
2:ED:125:GLU:O	7:5A:903:PHE:CZ	1.72	1.40
2:GB:177:ASP:CG	1:GC:353:VAL:CG1	1.95	1.40
2:KB:177:ASP:CG	1:KC:353:VAL:CG1	1.95	1.40
1:ME:372:MET:CE	6:4B:96:VAL:O	1.66	1.40
2:CB:177:ASP:CG	1:CC:353:VAL:CG1	1.93	1.39
2:HD:177:ASP:CG	1:HE:353:VAL:CG1	1.96	1.39
2:IB:177:ASP:CG	1:IC:353:VAL:CG1	1.95	1.39
2:AD:177:ASP:CG	1:AE:353:VAL:CG1	1.96	1.39
2:CD:177:ASP:CG	1:CE:353:VAL:CG1	1.93	1.39
1:JE:89:PRO:HB2	1:KE:280:LYS:CG	1.46	1.39
2:KD:177:ASP:CG	1:KE:353:VAL:CG1	1.96	1.39
2:LB:306:ARG:HE	4:2C:149:ILE:CG2	1.32	1.39
7:5B:1490:LYS:CD	7:5B:1494:LEU:HB3	1.50	1.39
10:8S:38:UNK:C	10:8T:1:UNK:N	1.77	1.39

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GD:177:ASP:CG	1:GE:353:VAL:CG1	1.96	1.39
1:IA:101:ASN:ND2	2:IB:252:LYS:CD	1.84	1.39
2:KD:54:ALA:CB	2:LD:285:THR:CG2	1.99	1.39
2:LB:77:ARG:NH1	6:4A:204:ARG:NH2	1.70	1.39
1:MA:101:ASN:ND2	2:MB:252:LYS:CD	1.82	1.39
7:5C:1544:ILE:HA	7:5C:1573:ARG:CD	1.53	1.39
2:ID:177:ASP:CG	1:IE:353:VAL:CG1	1.96	1.39
1:LC:222:PRO:CD	2:LD:324:LYS:HD3	1.51	1.39
2:LD:55:THR:N	2:MD:283:ALA:HB2	1.38	1.39
7:5A:1544:ILE:HA	7:5A:1573:ARG:CD	1.53	1.39
7:5C:1267:CYS:SG	9:7E:8:ARG:NE	1.95	1.39
10:8G:38:UNK:C	10:8H:1:UNK:N	1.77	1.39
1:EC:101:ASN:ND2	2:ED:252:LYS:CD	1.85	1.39
1:FA:101:ASN:ND2	2:FB:252:LYS:HD2	1.12	1.39
2:FB:55:THR:N	2:GB:283:ALA:CB	1.84	1.39
1:IC:402:ARG:HH22	7:5A:1418:GLN:N	1.16	1.39
1:JA:101:ASN:ND2	2:JB:252:LYS:CD	1.84	1.39
2:LB:379:LYS:CG	4:2C:166:ILE:HD12	1.53	1.39
6:4A:244:GLU:CG	6:4A:284:LEU:HD11	1.53	1.39
6:4C:244:GLU:CG	6:4C:284:LEU:HD11	1.53	1.39
7:5A:1490:LYS:CD	7:5A:1494:LEU:HB3	1.50	1.39
7:5B:1544:ILE:HA	7:5B:1573:ARG:CD	1.53	1.39
1:EE:101:ASN:ND2	2:EF:252:LYS:HD2	1.12	1.38
1:GA:101:ASN:ND2	2:GB:252:LYS:CD	1.85	1.38
1:JE:89:PRO:CB	1:KE:280:LYS:HG2	1.13	1.38
1:KA:85:GLN:CA	1:LA:283:HIS:HA	1.50	1.38
6:4B:244:GLU:CG	6:4B:284:LEU:HD11	1.53	1.38
7:5C:1490:LYS:CD	7:5C:1494:LEU:HB3	1.50	1.38
9:7E:14:SER:OG	9:7F:34:PRO:CG	1.67	1.38
1:DC:101:ASN:ND2	2:DD:252:LYS:HD2	1.09	1.38
2:ED:125:GLU:HG2	7:5A:903:PHE:CE2	1.56	1.38
1:JE:87:PHE:O	1:KE:283:HIS:CE1	1.72	1.38
2:LD:231:ALA:CB	6:4B:226:ILE:HD13	1.52	1.38
2:LF:416:ASN:C	4:2B:168:LEU:HD13	1.48	1.38
6:4D:244:GLU:CG	6:4D:284:LEU:HD11	1.53	1.38
9:7C:15:VAL:CA	9:7D:35:ILE:HD11	1.51	1.38
1:EC:370:LYS:NZ	10:8K:17:UNK:CB	1.83	1.38
2:FB:55:THR:H	2:GB:283:ALA:CA	1.37	1.38
1:IE:101:ASN:ND2	2:IF:252:LYS:CD	1.86	1.38
2:LB:306:ARG:NH2	4:2C:151:VAL:HG23	1.36	1.38
1:AA:101:ASN:ND2	2:AB:252:LYS:CD	1.85	1.38

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DE:101:ASN:ND2	2:DF:252:LYS:HD2	1.07	1.38
2:IB:86:ARG:HA	2:JB:281:TYR:CE1	1.59	1.38
2:KF:125:GLU:HG3	2:LF:336:LYS:NZ	1.12	1.38
9:7C:15:VAL:CA	9:7D:35:ILE:CD1	2.00	1.38
2:JB:177:ASP:CG	1:JC:353:VAL:CG1	1.95	1.38
2:JD:86:ARG:NH2	2:KD:280:GLN:CB	1.84	1.38
10:8P:38:UNK:C	10:8Q:1:UNK:N	1.77	1.38
2:LF:224:ASP:N	6:4D:219:ASN:ND2	1.71	1.37
1:LA:89:PRO:CD	1:MA:280:LYS:NZ	1.87	1.37
2:LD:212:PHE:HZ	1:LE:326:LYS:CD	1.38	1.37
7:5C:874:GLN:HB2	8:6C:59:LYS:NZ	1.37	1.37
9:7A:15:VAL:CA	9:7B:35:ILE:HD11	1.51	1.37
9:7A:15:VAL:CA	9:7B:35:ILE:CD1	2.00	1.37
1:AE:101:ASN:ND2	2:AF:252:LYS:CD	1.86	1.37
1:EA:430:LYS:NZ	7:5C:834:ASN:CG	1.81	1.37
1:JE:101:ASN:ND2	2:JF:252:LYS:CD	1.86	1.37
2:KB:215:LEU:HD13	6:4A:267:ILE:CG2	1.54	1.37
2:LB:379:LYS:HB3	4:2C:166:ILE:CD1	1.42	1.37
1:DA:101:ASN:ND2	2:DB:252:LYS:HD2	1.06	1.37
2:EF:125:GLU:CG	7:5B:903:PHE:CE2	2.08	1.37
1:FE:60:LYS:HZ3	1:GE:283:HIS:CG	1.40	1.37
2:JD:177:ASP:CG	1:JE:353:VAL:CG1	1.96	1.37
7:5A:1284:PHE:CE1	9:7A:12:GLU:OE1	1.78	1.37
9:7E:11:TYR:CD1	9:7F:26:LEU:HD23	1.59	1.37
2:FB:98:GLY:CA	1:FC:254:GLU:HG2	1.53	1.37
1:GE:101:ASN:ND2	2:GF:252:LYS:CD	1.86	1.37
1:HA:101:ASN:ND2	2:HB:252:LYS:CD	1.85	1.37
1:JA:89:PRO:HD3	1:KA:283:HIS:CE1	1.60	1.37
1:JC:89:PRO:HB2	1:KC:280:LYS:CG	1.44	1.37
2:LB:340:TYR:CG	4:2C:147:PHE:HB2	1.57	1.37
1:DA:282:TYR:CE2	10:8G:18:UNK:CB	2.08	1.36
1:JA:89:PRO:CB	1:KA:280:LYS:HG2	1.21	1.36
6:4A:221:MET:SD	6:4A:222:PRO:HD3	1.65	1.36
6:4B:221:MET:SD	6:4B:222:PRO:HD3	1.65	1.36
6:4C:221:MET:SD	6:4C:222:PRO:HD3	1.65	1.36
6:4D:221:MET:SD	6:4D:222:PRO:HD3	1.65	1.36
1:HE:101:ASN:ND2	2:HF:252:LYS:CD	1.86	1.36
1:KA:101:ASN:ND2	2:KB:252:LYS:CD	1.85	1.36
2:KF:86:ARG:HH12	2:LF:283:ALA:CB	1.35	1.36
1:LA:89:PRO:HD3	1:MA:280:LYS:NZ	1.08	1.36
2:LB:331:LEU:CD2	4:2C:42:PHE:CE2	2.07	1.36

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1548:VAL:CG1	7:5C:1566:GLU:CA	2.03	1.36
1:CA:101:ASN:ND2	2:CB:252:LYS:HD2	1.08	1.36
2:FB:55:THR:HG23	2:GB:284:LEU:N	1.40	1.36
2:GB:55:THR:N	2:HB:283:ALA:HB2	1.32	1.36
2:HD:261:PRO:CB	5:3C:337:ARG:HH21	1.37	1.36
1:HE:282:TYR:HE2	10:8U:19:UNK:N	1.17	1.36
2:KF:272:PRO:O	6:4D:268:LEU:CD2	1.70	1.36
2:LD:55:THR:HG23	2:MD:283:ALA:CB	1.54	1.36
1:LE:222:PRO:CD	2:LF:324:LYS:HD3	1.52	1.36
1:BE:101:ASN:ND2	2:BF:252:LYS:HD2	1.03	1.36
2:EB:125:GLU:HG2	7:5C:903:PHE:CE2	1.60	1.36
1:IA:402:ARG:NH1	7:5C:1417:GLN:O	1.59	1.36
2:AD:359:LYS:N	6:4C:151:ARG:NH2	1.66	1.36
2:GD:55:THR:N	2:HD:283:ALA:HB2	1.04	1.36
1:IE:402:ARG:HH22	7:5B:1418:GLN:N	1.22	1.36
2:KF:221:THR:CG2	6:4D:261:SER:C	1.97	1.36
7:5A:1548:VAL:CG1	7:5A:1566:GLU:CA	2.03	1.36
1:EA:101:ASN:ND2	2:EB:252:LYS:CD	1.86	1.35
2:LB:331:LEU:HD21	4:2C:42:PHE:CE1	0.84	1.35
1:CA:282:TYR:CE2	10:8D:18:UNK:CB	2.09	1.35
1:DE:400:ALA:O	7:5B:775:PRO:CB	1.70	1.35
1:JA:89:PRO:CD	1:KA:283:HIS:CE1	2.09	1.35
7:5B:1548:VAL:CG1	7:5B:1566:GLU:CA	2.03	1.35
1:EA:370:LYS:NZ	10:8J:17:UNK:CB	1.89	1.35
1:KA:88:HIS:CA	1:LA:284:GLU:HB2	1.27	1.35
1:MC:101:ASN:ND2	2:MD:252:LYS:CD	1.87	1.35
9:7A:11:TYR:CE1	9:7B:26:LEU:HB3	1.61	1.35
1:KE:101:ASN:ND2	2:KF:252:LYS:CD	1.86	1.35
1:LE:89:PRO:HD3	1:ME:280:LYS:NZ	1.04	1.35
7:5A:1284:PHE:HZ	9:7A:12:GLU:CB	1.30	1.35
1:EC:430:LYS:CE	7:5A:834:ASN:HD22	1.38	1.34
2:KD:125:GLU:OE1	2:LD:332:ASN:ND2	1.59	1.34
1:ME:101:ASN:ND2	2:MF:252:LYS:CD	1.88	1.34
9:7A:30:ARG:HH12	9:7B:3:GLN:CA	1.40	1.34
9:7C:30:ARG:HH12	9:7D:3:GLN:CA	1.40	1.34
1:AE:342:GLN:HE22	3:1A:55:HIS:CG	1.44	1.34
1:BA:101:ASN:ND2	2:BB:252:LYS:HD2	1.03	1.34
1:LC:245:ASP:OD1	6:4A:216:ARG:NH2	1.59	1.34
7:5B:1284:PHE:CZ	9:7C:12:GLU:HB3	1.56	1.34
1:BC:101:ASN:ND2	2:BD:252:LYS:HD2	1.02	1.34
1:CE:101:ASN:ND2	2:CF:252:LYS:HD2	1.07	1.34

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:101:ASN:ND2	2:DB:252:LYS:CD	1.89	1.34
1:EE:423:GLU:OE2	7:5B:830:VAL:CG1	1.74	1.34
2:GB:55:THR:HG23	2:HB:283:ALA:CA	0.87	1.34
1:JA:128:ASN:HD22	1:KA:285:GLN:CD	1.35	1.34
2:KD:86:ARG:NH1	2:LD:283:ALA:CB	1.89	1.34
2:LB:55:THR:N	2:MB:283:ALA:HB2	1.43	1.34
1:MC:372:MET:CE	6:4A:96:VAL:O	1.73	1.34
1:FC:419:SER:HB2	7:5A:1256:ARG:NE	1.30	1.34
1:FE:60:LYS:HZ2	1:GE:283:HIS:CD2	1.44	1.34
1:IA:58:ALA:CB	10:8Y:13:UNK:CA	2.06	1.34
2:IB:212:PHE:HZ	1:IC:326:LYS:CD	1.39	1.34
2:JB:212:PHE:HZ	1:JC:326:LYS:CD	1.39	1.34
2:KB:273:LEU:CA	6:4A:268:LEU:CD2	1.94	1.34
7:5C:1475:PHE:CE2	7:5C:1565:GLU:OE2	1.80	1.34
1:EA:370:LYS:CE	10:8J:17:UNK:CB	2.06	1.34
2:KB:212:PHE:HZ	1:KC:326:LYS:CD	1.39	1.34
1:LA:176:GLN:NE2	4:2C:42:PHE:CD2	1.95	1.34
9:7C:11:TYR:CE1	9:7D:26:LEU:HB3	1.61	1.34
1:CC:282:TYR:CE2	10:8E:18:UNK:CB	2.09	1.33
1:FE:60:LYS:NZ	1:GE:283:HIS:CG	1.96	1.33
2:JB:55:THR:HG21	2:KB:362:LYS:NZ	1.04	1.33
2:MB:221:THR:HG21	6:4A:189:ARG:NH2	1.41	1.33
7:5A:1475:PHE:CE2	7:5A:1565:GLU:OE2	1.80	1.33
7:5A:1544:ILE:CA	7:5A:1573:ARG:HD2	1.59	1.33
7:5B:1544:ILE:CA	7:5B:1573:ARG:HD2	1.58	1.33
7:5C:1544:ILE:CA	7:5C:1573:ARG:HD2	1.59	1.33
9:7A:15:VAL:CG1	9:7B:35:ILE:HD13	0.86	1.33
1:BA:101:ASN:ND2	2:BB:252:LYS:CD	1.89	1.33
1:BC:101:ASN:ND2	2:BD:252:LYS:CD	1.88	1.33
1:CC:101:ASN:ND2	2:CD:252:LYS:CD	1.89	1.33
1:CC:101:ASN:ND2	2:CD:252:LYS:HD2	1.05	1.33
2:FD:212:PHE:HZ	1:FE:326:LYS:CD	1.40	1.33
2:HB:212:PHE:HZ	1:HC:326:LYS:CD	1.39	1.33
1:IA:282:TYR:CE2	10:8V:18:UNK:CB	1.87	1.33
9:7E:7:LEU:HD22	9:7F:27:GLY:CA	1.58	1.33
1:IA:282:TYR:CD1	10:8V:15:UNK:HA	1.63	1.33
2:LF:55:THR:HG23	2:MF:283:ALA:CB	1.57	1.33
2:MD:221:THR:CG2	6:4B:189:ARG:HH22	1.39	1.33
7:5B:1475:PHE:CE2	7:5B:1565:GLU:OE2	1.80	1.33
9:7A:11:TYR:CE1	9:7B:26:LEU:HD23	1.61	1.33
9:7C:11:TYR:CE1	9:7D:26:LEU:HD23	1.61	1.33

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:7C:15:VAL:CG1	9:7D:35:ILE:HD13	0.86	1.33
2:KB:276:ARG:NH2	6:4A:271:GLU:O	1.61	1.33
2:KF:88:ASP:OD1	2:LF:291:GLN:CD	1.71	1.33
1:BE:101:ASN:ND2	2:BF:252:LYS:CD	1.89	1.33
1:DE:402:ARG:HH22	7:5B:782:LEU:CD1	1.34	1.33
2:HF:261:PRO:CB	5:3A:337:ARG:HH21	1.42	1.33
1:KC:85:GLN:CA	1:LC:283:HIS:HA	1.58	1.33
1:ME:101:ASN:ND2	2:MF:252:LYS:HD2	1.01	1.33
2:LB:306:ARG:NE	4:2C:149:ILE:CG2	1.87	1.32
2:JF:88:ASP:HB2	2:KF:278:SER:OG	1.15	1.32
1:LC:60:LYS:HB3	6:4A:101:ARG:NH1	1.23	1.32
2:AB:212:PHE:HZ	1:AC:326:LYS:CD	1.39	1.32
2:AD:358:PRO:C	6:4C:151:ARG:NH2	1.83	1.32
1:DE:101:ASN:ND2	2:DF:252:LYS:CD	1.92	1.32
1:MC:101:ASN:ND2	2:MD:252:LYS:HD2	1.02	1.32
2:CB:177:ASP:CG	1:CC:353:VAL:HG12	1.53	1.32
1:EA:282:TYR:CE2	10:8J:18:UNK:CB	2.13	1.32
2:ED:177:ASP:CG	1:EE:353:VAL:HG12	1.48	1.32
1:GE:101:ASN:ND2	2:GF:252:LYS:HD2	1.01	1.32
1:KE:101:ASN:ND2	2:KF:252:LYS:HD2	1.01	1.32
2:AF:359:LYS:N	6:4A:151:ARG:NH2	1.74	1.32
2:FD:55:THR:HG23	2:GD:283:ALA:CA	1.58	1.32
1:IA:402:ARG:CZ	7:5C:1417:GLN:HG3	1.60	1.32
1:HE:278:ALA:CB	10:8U:18:UNK:O	1.76	1.31
1:JA:88:HIS:CE1	1:KA:280:LYS:O	1.83	1.31
1:JC:91:GLN:N	1:KC:280:LYS:HZ2	1.22	1.31
1:JE:91:GLN:H	1:KE:280:LYS:NZ	1.24	1.31
2:KB:55:THR:CG2	2:LB:363:MET:HE1	1.57	1.31
4:2B:16:GLN:O	4:2B:20:LYS:N	1.63	1.31
1:FA:89:PRO:HD3	1:GA:280:LYS:CD	1.58	1.31
2:GB:212:PHE:HZ	1:GC:326:LYS:CD	1.39	1.31
4:2A:16:GLN:O	4:2A:20:LYS:N	1.63	1.31
1:AE:101:ASN:ND2	2:AF:252:LYS:HD2	1.01	1.31
1:CA:101:ASN:ND2	2:CB:252:LYS:CD	1.91	1.31
1:CE:101:ASN:ND2	2:CF:252:LYS:CD	1.90	1.31
1:EA:370:LYS:HE2	10:8J:17:UNK:CB	1.61	1.31
1:IC:58:ALA:HB1	10:8Z:13:UNK:CB	1.58	1.31
2:LF:55:THR:N	2:MF:283:ALA:HB2	1.45	1.31
2:LF:231:ALA:CB	6:4D:226:ILE:HD13	1.60	1.31
4:2C:16:GLN:O	4:2C:20:LYS:N	1.63	1.31
1:FA:89:PRO:CD	1:GA:280:LYS:CD	2.05	1.31

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JC:87:PHE:O	1:KC:283:HIS:CE1	1.83	1.31
7:5A:1246:LEU:CG	9:7B:12:GLU:OE2	1.79	1.31
2:EF:125:GLU:HA	7:5B:903:PHE:CE2	1.26	1.31
2:ID:424:GLN:NE2	7:5A:1413:GLN:CD	1.89	1.31
1:IE:101:ASN:ND2	2:IF:252:LYS:HD2	1.01	1.31
1:KA:62:VAL:CG2	1:LA:285:GLN:HB3	1.59	1.31
1:GA:101:ASN:ND2	2:GB:252:LYS:HD2	1.00	1.30
1:HE:101:ASN:ND2	2:HF:252:LYS:HD2	1.01	1.30
2:KB:217:LEU:CD2	6:4A:263:CYS:SG	2.20	1.30
2:LB:177:ASP:CG	1:LC:353:VAL:CG1	2.03	1.30
7:5B:1266:TYR:HA	7:5B:1269:ASP:OD2	1.31	1.30
1:DC:101:ASN:ND2	2:DD:252:LYS:CD	1.94	1.30
1:DE:402:ARG:NE	7:5B:777:ALA:HB3	1.42	1.30
1:EA:101:ASN:ND2	2:EB:252:LYS:HD2	1.01	1.30
1:EC:101:ASN:ND2	2:ED:252:LYS:HD2	0.99	1.30
1:EC:370:LYS:CE	10:8K:17:UNK:CB	2.09	1.30
1:KA:101:ASN:ND2	2:KB:252:LYS:HD2	1.00	1.30
1:HE:278:ALA:HB3	10:8U:22:UNK:N	1.41	1.30
1:HE:282:TYR:CE2	10:8U:19:UNK:N	2.00	1.30
1:IA:58:ALA:HB3	10:8Y:13:UNK:CA	1.59	1.30
2:JD:212:PHE:HZ	1:JE:326:LYS:CD	1.42	1.30
2:LB:177:ASP:O	1:LC:352:LYS:HD2	1.27	1.30
7:5A:1266:TYR:HA	7:5A:1269:ASP:OD2	1.31	1.30
1:FE:419:SER:HB2	7:5B:1256:ARG:NE	1.30	1.30
2:ID:212:PHE:HZ	1:IE:326:LYS:CD	1.42	1.30
1:JE:101:ASN:ND2	2:JF:252:LYS:HD2	1.01	1.30
1:DA:402:ARG:NH2	7:5C:777:ALA:HB3	1.47	1.30
2:ED:125:GLU:CG	7:5A:903:PHE:CE2	2.14	1.30
2:EF:125:GLU:HG2	7:5B:903:PHE:CD2	1.66	1.30
1:IA:58:ALA:HB1	10:8Y:13:UNK:CB	1.62	1.30
1:KA:88:HIS:CA	1:LA:284:GLU:CB	1.80	1.30
2:KF:87:PRO:CG	2:LF:282:ARG:HG3	1.58	1.30
7:5C:1266:TYR:HA	7:5C:1269:ASP:OD2	1.31	1.30
1:AA:101:ASN:ND2	2:AB:252:LYS:HD2	1.00	1.29
2:AD:362:LYS:NZ	6:4C:143:THR:O	1.60	1.29
1:DA:402:ARG:HH22	7:5C:782:LEU:CD1	1.43	1.29
2:KD:212:PHE:HZ	1:KE:326:LYS:CD	1.42	1.29
7:5B:1245:GLY:C	9:7D:12:GLU:OE1	1.75	1.29
7:5B:1499:LYS:HE3	7:5B:1513:ASP:O	1.29	1.29
2:CD:177:ASP:CG	1:CE:353:VAL:HG12	1.54	1.29
1:IA:101:ASN:ND2	2:IB:252:LYS:HD2	1.00	1.29

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JD:98:GLY:HA2	1:JE:254:GLU:CG	1.62	1.29
2:MD:177:ASP:CG	1:ME:353:VAL:CG1	2.05	1.29
2:AF:362:LYS:NZ	6:4A:143:THR:O	1.63	1.29
2:EB:98:GLY:HA2	1:EC:254:GLU:CG	1.60	1.29
1:HA:101:ASN:ND2	2:HB:252:LYS:HD2	1.00	1.29
2:ID:98:GLY:HA2	1:IE:254:GLU:CG	1.62	1.29
2:JB:98:GLY:HA2	1:JC:254:GLU:CG	1.62	1.29
1:KA:85:GLN:OE1	1:LA:282:TYR:CB	1.79	1.29
2:KB:127:CYS:H	4:2C:38:VAL:CG1	1.39	1.29
7:5A:839:GLU:HG2	8:6A:107:PRO:O	1.27	1.29
7:5A:1499:LYS:HE3	7:5A:1513:ASP:O	1.29	1.29
2:ED:98:GLY:HA2	1:EE:254:GLU:CG	1.62	1.29
2:HB:98:GLY:HA2	1:HC:254:GLU:CG	1.62	1.29
1:IA:402:ARG:HH22	7:5C:1418:GLN:N	1.26	1.29
2:IB:98:GLY:HA2	1:IC:254:GLU:CG	1.62	1.29
1:JC:89:PRO:CD	1:KC:283:HIS:CE1	2.12	1.29
2:LB:55:THR:HG23	2:MB:283:ALA:CB	1.60	1.29
2:AB:98:GLY:HA2	1:AC:254:GLU:CG	1.62	1.29
2:DD:177:ASP:CG	1:DE:353:VAL:HG12	1.47	1.29
2:FF:428:ALA:CB	7:5B:1080:PHE:HE1	1.44	1.29
2:HD:98:GLY:HA2	1:HE:254:GLU:CG	1.62	1.29
2:HD:212:PHE:HZ	1:HE:326:LYS:CD	1.42	1.29
1:IC:58:ALA:HB3	10:8Z:13:UNK:CA	1.50	1.29
1:JC:89:PRO:CG	1:KC:280:LYS:HG2	1.61	1.29
2:LB:306:ARG:NH1	4:2C:151:VAL:CG2	1.96	1.29
1:MA:101:ASN:ND2	2:MB:252:LYS:HD2	0.97	1.29
2:AD:212:PHE:HZ	1:AE:326:LYS:CD	1.42	1.28
2:EB:125:GLU:O	7:5C:903:PHE:CZ	1.84	1.28
2:GB:98:GLY:HA2	1:GC:254:GLU:CG	1.61	1.28
1:IC:402:ARG:HH22	7:5A:1417:GLN:C	1.37	1.28
2:IF:424:GLN:NE2	7:5B:1413:GLN:CD	1.91	1.28
1:JA:101:ASN:ND2	2:JB:252:LYS:HD2	1.00	1.28
1:ME:282:TYR:CD2	6:4B:104:ARG:HD3	1.68	1.28
7:5C:1284:PHE:CZ	9:7E:12:GLU:HB3	1.60	1.28
7:5C:1499:LYS:HE3	7:5C:1513:ASP:O	1.29	1.28
1:IA:58:ALA:CB	10:8Y:13:UNK:HA	1.62	1.28
2:KD:98:GLY:HA2	1:KE:254:GLU:CG	1.62	1.28
2:KD:118:ASP:OD2	4:2A:148:ASN:ND2	1.64	1.28
7:5B:1573:ARG:O	7:5B:1577:LYS:HB2	1.19	1.28
2:AD:98:GLY:HA2	1:AE:254:GLU:CG	1.62	1.28
1:DE:402:ARG:NE	7:5B:777:ALA:CB	1.95	1.28

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GD:98:GLY:HA2	1:GE:254:GLU:CG	1.62	1.28
1:JE:91:GLN:N	1:KE:280:LYS:NZ	1.76	1.28
2:KD:86:ARG:NH1	2:LD:283:ALA:HB3	1.44	1.28
1:KE:85:GLN:CA	1:LE:283:HIS:HA	1.63	1.28
1:LC:89:PRO:CD	1:MC:280:LYS:NZ	1.97	1.28
2:LF:306:ARG:CZ	4:2B:151:VAL:HG23	1.62	1.28
2:GD:212:PHE:HZ	1:GE:326:LYS:CD	1.42	1.28
1:JA:89:PRO:CB	1:KA:280:LYS:CG	2.01	1.28
7:5C:773:ARG:O	7:5C:775:PRO:CD	1.81	1.28
1:EA:396:ASP:CB	7:5C:817:LEU:CD2	1.79	1.28
1:EE:430:LYS:CE	7:5B:834:ASN:HD22	1.46	1.28
1:JC:91:GLN:N	1:KC:280:LYS:NZ	1.82	1.28
2:KB:98:GLY:HA2	1:KC:254:GLU:CG	1.62	1.28
2:KF:86:ARG:CZ	2:LF:283:ALA:H	1.25	1.28
7:5A:773:ARG:O	7:5A:775:PRO:CD	1.81	1.28
7:5C:1548:VAL:HG11	7:5C:1565:GLU:O	1.25	1.28
2:DB:86:ARG:HA	2:EB:281:TYR:CE1	1.67	1.27
2:FD:54:ALA:CA	2:GD:283:ALA:HB2	1.64	1.27
1:HC:278:ALA:HB1	10:8T:18:UNK:O	1.12	1.27
2:LB:306:ARG:CZ	4:2C:151:VAL:CG2	2.10	1.27
7:5A:1573:ARG:O	7:5A:1577:LYS:HB2	1.19	1.27
7:5B:773:ARG:O	7:5B:775:PRO:CD	1.81	1.27
2:LD:306:ARG:HE	4:2A:149:ILE:CG2	1.47	1.27
1:MA:282:TYR:CD2	6:4C:104:ARG:HD3	1.68	1.27
7:5A:1548:VAL:CA	7:5A:1569:GLU:OE2	1.81	1.27
7:5B:1548:VAL:CA	7:5B:1569:GLU:OE2	1.81	1.27
2:AF:227:HIS:HE1	6:4A:135:LEU:CD1	1.46	1.27
1:DA:402:ARG:CZ	7:5C:777:ALA:CB	2.08	1.27
2:JD:88:ASP:HB2	2:KD:278:SER:OG	1.34	1.27
2:EB:125:GLU:CG	7:5C:903:PHE:HE2	1.46	1.27
2:FB:54:ALA:C	2:GB:283:ALA:CB	2.08	1.27
7:5A:1547:SER:C	7:5A:1569:GLU:OE1	1.78	1.27
7:5B:827:GLU:OE1	7:5B:849:ARG:NH2	1.67	1.27
7:5C:1547:SER:C	7:5C:1569:GLU:OE1	1.78	1.27
7:5C:1548:VAL:CA	7:5C:1569:GLU:OE2	1.81	1.27
1:AC:342:GLN:HE22	3:1C:55:HIS:CG	1.52	1.27
1:GC:101:ASN:ND2	2:GD:252:LYS:HD2	0.96	1.27
1:GE:56:THR:C	1:HE:285:GLN:HB3	1.58	1.27
1:JE:89:PRO:HG2	1:KE:280:LYS:CA	1.58	1.27
7:5A:1548:VAL:HG11	7:5A:1565:GLU:O	1.25	1.27
7:5B:1547:SER:C	7:5B:1569:GLU:OE1	1.78	1.27

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:217:LEU:CD2	6:4C:132:LYS:HG2	1.64	1.26
1:FA:423:GLU:OE2	7:5C:1256:ARG:NH2	1.67	1.26
1:FC:101:ASN:ND2	2:FD:252:LYS:CD	1.96	1.26
1:FE:422:ARG:HH21	7:5B:1170:THR:CA	1.45	1.26
1:GE:56:THR:O	1:HE:285:GLN:HB3	1.24	1.26
1:IC:434:GLU:OE1	5:3C:61:SER:HB3	1.26	1.26
7:5A:827:GLU:OE1	7:5A:849:ARG:NH2	1.67	1.26
7:5C:1573:ARG:O	7:5C:1577:LYS:HB2	1.19	1.26
9:7D:12:GLU:HA	9:7D:16:THR:OG1	1.28	1.26
2:ED:125:GLU:C	7:5A:903:PHE:CZ	2.13	1.26
1:FA:101:ASN:ND2	2:FB:252:LYS:CD	1.98	1.26
1:FC:423:GLU:OE2	7:5A:1256:ARG:NH2	1.65	1.26
2:KB:86:ARG:NH1	2:LB:283:ALA:CB	1.80	1.26
2:KF:86:ARG:NH1	2:LF:283:ALA:HB3	1.49	1.26
1:LC:60:LYS:HD2	6:4A:101:ARG:NH2	1.51	1.26
7:5C:1267:CYS:O	7:5C:1270:ASP:HB2	1.31	1.26
1:AC:101:ASN:ND2	2:AD:252:LYS:HD2	0.96	1.26
1:EE:370:LYS:CE	10:8L:17:UNK:CB	2.12	1.26
1:KE:359:PRO:HB3	6:4B:299:TYR:CE2	1.71	1.26
7:5A:1267:CYS:O	7:5A:1270:ASP:HB2	1.31	1.26
7:5B:1267:CYS:O	7:5B:1270:ASP:HB2	1.31	1.26
7:5C:827:GLU:OE1	7:5C:849:ARG:NH2	1.67	1.26
1:FC:422:ARG:HH21	7:5A:1170:THR:CA	1.47	1.26
1:HC:101:ASN:ND2	2:HD:252:LYS:HD2	0.96	1.26
1:JA:128:ASN:ND2	1:KA:285:GLN:OE1	1.67	1.26
1:JC:91:GLN:H	1:KC:280:LYS:NZ	1.30	1.26
2:LD:296:ALA:CB	4:2A:149:ILE:CG2	2.03	1.26
7:5C:1246:LEU:HG	9:7F:12:GLU:OE2	1.18	1.26
2:EB:177:ASP:CG	1:EC:353:VAL:HG12	1.53	1.26
2:FD:98:GLY:CA	1:FE:254:GLU:HG2	1.63	1.26
1:GE:56:THR:O	1:HE:285:GLN:CB	1.83	1.26
1:HE:419:SER:OG	5:3A:238:ILE:HD12	1.33	1.26
2:LD:177:ASP:O	1:LE:352:LYS:HD2	1.22	1.26
2:MB:177:ASP:CG	1:MC:353:VAL:CG1	2.06	1.26
1:GC:409:VAL:HG11	5:3C:383:GLU:OE2	1.36	1.25
1:IA:278:ALA:HB2	10:8V:21:UNK:CB	1.62	1.25
2:JD:86:ARG:CZ	2:KD:280:GLN:CB	2.14	1.25
1:KC:101:ASN:ND2	2:KD:252:LYS:HD2	0.96	1.25
2:LD:306:ARG:CZ	4:2A:151:VAL:CG2	2.14	1.25
7:5B:1548:VAL:HG11	7:5B:1565:GLU:O	1.25	1.25
9:7F:12:GLU:HA	9:7F:16:THR:OG1	1.28	1.25

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FE:402:ARG:NH2	7:5B:1262:GLU:CD	1.95	1.25
2:GD:55:THR:N	2:HD:283:ALA:CB	1.97	1.25
1:IC:279:GLU:OE2	10:8W:22:UNK:O	1.55	1.25
2:ID:424:GLN:CD	7:5A:1413:GLN:NE2	1.92	1.25
1:KA:79:ARG:O	1:LA:280:LYS:HE2	1.30	1.25
1:KC:88:HIS:CA	1:LC:284:GLU:HB2	1.58	1.25
2:KD:215:LEU:CD1	6:4B:267:ILE:HG22	1.67	1.25
2:BD:98:GLY:HA2	1:BE:254:GLU:CG	1.66	1.25
2:ED:125:GLU:CG	7:5A:903:PHE:HE2	1.44	1.25
1:EE:101:ASN:ND2	2:EF:252:LYS:CD	1.97	1.25
1:GA:89:PRO:CD	1:HA:280:LYS:NZ	1.97	1.25
1:JC:101:ASN:ND2	2:JD:252:LYS:HD2	0.96	1.25
1:IC:101:ASN:ND2	2:ID:252:LYS:HD2	0.96	1.25
1:IC:279:GLU:OE2	10:8W:22:UNK:C	1.85	1.25
2:KF:221:THR:CG2	6:4D:261:SER:O	1.82	1.25
2:KB:276:ARG:HH21	6:4A:265:TYR:CA	1.50	1.25
7:5A:1490:LYS:CG	7:5A:1494:LEU:HD23	1.67	1.25
7:5C:1552:LYS:HZ1	7:5C:1563:SER:CB	1.38	1.25
2:DD:85:PHE:O	2:ED:281:TYR:OH	1.55	1.25
1:EC:430:LYS:NZ	7:5A:834:ASN:CG	1.95	1.25
1:IA:278:ALA:HB3	10:8V:22:UNK:N	1.50	1.25
1:JC:89:PRO:HD3	1:KC:283:HIS:CE1	1.68	1.25
5:3A:229:PHE:CE2	5:3A:331:GLN:CB	2.18	1.25
5:3C:229:PHE:CE2	5:3C:331:GLN:CB	2.18	1.25
7:5B:1490:LYS:CG	7:5B:1494:LEU:HD23	1.67	1.25
7:5C:1490:LYS:CG	7:5C:1494:LEU:HD23	1.67	1.25
1:FE:101:ASN:ND2	2:FF:252:LYS:CD	1.98	1.25
1:HC:419:SER:OG	5:3C:238:ILE:HD12	1.34	1.25
1:IE:389:SER:CB	5:3A:307:LYS:HD3	1.66	1.25
2:IF:424:GLN:CD	7:5B:1413:GLN:NE2	1.93	1.25
2:KF:125:GLU:CG	2:LF:336:LYS:NZ	1.97	1.25
5:3B:229:PHE:CE2	5:3B:331:GLN:CB	2.18	1.25
1:FE:423:GLU:OE2	7:5B:1256:ARG:NH2	1.69	1.24
1:KA:85:GLN:OE1	1:LA:282:TYR:HB2	1.13	1.24
1:KA:88:HIS:HA	1:LA:284:GLU:CB	1.06	1.24
2:KD:215:LEU:HD22	6:4B:267:ILE:O	1.32	1.24
2:KF:217:LEU:HD22	6:4D:263:CYS:SG	1.76	1.24
5:3A:229:PHE:HE2	5:3A:331:GLN:CB	1.51	1.24
5:3C:229:PHE:HE2	5:3C:331:GLN:CB	1.51	1.24
7:5A:1267:CYS:SG	9:7A:8:ARG:NE	2.10	1.24
9:7E:11:TYR:CE1	9:7F:26:LEU:HD23	1.71	1.24

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:86:ARG:CB	2:DB:281:TYR:CE1	2.20	1.24
2:DB:177:ASP:CG	1:DC:353:VAL:HG12	1.51	1.24
2:FB:55:THR:N	2:GB:283:ALA:HB2	1.45	1.24
2:FB:428:ALA:HB1	7:5C:1080:PHE:CE1	1.47	1.24
1:JC:279:GLU:OE2	10:8Z:22:UNK:HA	1.28	1.24
2:KD:55:THR:HG21	2:LD:363:MET:CE	1.68	1.24
2:KF:125:GLU:CG	2:LF:336:LYS:HZ1	1.50	1.24
1:LC:176:GLN:NE2	4:2A:42:PHE:CD2	2.05	1.24
1:LE:89:PRO:HG3	1:ME:280:LYS:CE	1.67	1.24
2:MD:212:PHE:HZ	1:ME:326:LYS:CD	1.50	1.24
5:3B:229:PHE:HE2	5:3B:331:GLN:CB	1.51	1.24
5:3B:231:THR:C	5:3B:335:LYS:HB2	1.54	1.24
7:5B:1475:PHE:HE2	7:5B:1565:GLU:OE2	0.96	1.24
2:CB:177:ASP:O	1:CC:352:LYS:HD2	1.35	1.24
1:FC:89:PRO:CD	1:GC:280:LYS:HZ2	1.48	1.24
1:FE:60:LYS:NZ	1:GE:283:HIS:CD2	2.04	1.24
1:JC:279:GLU:OE2	10:8Z:22:UNK:CA	1.86	1.24
1:EC:370:LYS:HE2	10:8K:17:UNK:CB	1.68	1.24
2:EF:125:GLU:CB	7:5B:903:PHE:CE2	2.21	1.24
1:IC:402:ARG:NH2	7:5A:1417:GLN:CG	1.99	1.24
9:7E:30:ARG:NH1	9:7F:3:GLN:HA	1.50	1.24
2:EF:125:GLU:CG	7:5B:903:PHE:HE2	1.41	1.24
1:GC:89:PRO:HD3	1:HC:280:LYS:NZ	1.49	1.24
5:3A:231:THR:C	5:3A:335:LYS:HB2	1.54	1.24
7:5A:1475:PHE:HE2	7:5A:1565:GLU:OE2	0.96	1.24
2:AD:224:ASP:OD1	6:4C:132:LYS:N	1.70	1.23
2:DB:86:ARG:CA	2:EB:281:TYR:CE1	2.20	1.23
2:ED:157:GLU:OE2	7:5A:935:LYS:NZ	1.70	1.23
1:HE:278:ALA:HB1	10:8U:18:UNK:O	1.11	1.23
2:KD:217:LEU:CB	6:4B:265:TYR:OH	1.86	1.23
1:LA:101:ASN:ND2	2:LB:252:LYS:HD2	1.52	1.23
1:LA:245:ASP:OD1	6:4C:216:ARG:NH2	1.71	1.23
7:5C:1379:LYS:O	7:5C:1383:GLU:OE1	1.54	1.23
7:5C:1475:PHE:HE2	7:5C:1565:GLU:OE2	0.96	1.23
1:EE:430:LYS:NZ	7:5B:834:ASN:CG	1.94	1.23
1:FE:177:VAL:CG2	7:5B:915:PHE:CE2	2.00	1.23
1:IC:278:ALA:HB1	10:8W:18:UNK:O	1.09	1.23
1:JA:91:GLN:H	1:KA:280:LYS:NZ	1.37	1.23
7:5A:1379:LYS:O	7:5A:1383:GLU:OE1	1.54	1.23
7:5A:1552:LYS:HZ1	7:5A:1563:SER:CB	1.39	1.23
2:AF:358:PRO:C	6:4A:151:ARG:NH2	1.95	1.23

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DC:402:ARG:NE	7:5A:777:ALA:HB3	1.39	1.23
1:FA:89:PRO:HG3	1:GA:280:LYS:CG	1.69	1.23
1:KA:85:GLN:CD	1:LA:282:TYR:HB2	1.63	1.23
2:KF:54:ALA:CB	2:LF:285:THR:CG2	2.14	1.23
2:KF:217:LEU:CB	6:4D:265:TYR:OH	1.85	1.23
1:LC:101:ASN:ND2	2:LD:252:LYS:HD2	1.51	1.23
5:3C:231:THR:C	5:3C:335:LYS:HB2	1.54	1.23
7:5C:1491:LEU:CA	7:5C:1495:PHE:HB3	1.69	1.23
9:7B:12:GLU:HA	9:7B:16:THR:OG1	1.28	1.23
2:AF:227:HIS:CE1	6:4A:135:LEU:CD1	2.19	1.23
2:FB:212:PHE:HZ	1:FC:326:LYS:CD	1.50	1.23
2:JB:86:ARG:NH2	2:KB:280:GLN:CB	2.01	1.23
1:JE:89:PRO:CB	1:KE:280:LYS:CG	2.04	1.23
2:KB:127:CYS:N	4:2C:38:VAL:HG12	1.42	1.23
2:KD:273:LEU:CA	6:4B:268:LEU:CD2	2.12	1.23
7:5A:1491:LEU:CA	7:5A:1495:PHE:HB3	1.69	1.23
7:5B:1379:LYS:O	7:5B:1383:GLU:OE1	1.54	1.23
7:5B:1491:LEU:CA	7:5B:1495:PHE:HB3	1.69	1.23
7:5B:1548:VAL:CA	7:5B:1569:GLU:CD	2.11	1.23
9:7C:11:TYR:HE1	9:7D:26:LEU:CB	1.52	1.23
1:AC:342:GLN:NE2	3:1C:55:HIS:CD2	2.07	1.23
1:DC:402:ARG:HH22	7:5A:782:LEU:CD1	1.39	1.23
1:IE:402:ARG:NH2	7:5B:1417:GLN:C	1.94	1.23
2:KD:125:GLU:HG3	2:LD:336:LYS:NZ	0.93	1.23
7:5C:1125:LEU:HD11	8:6C:245:GLN:OE1	1.05	1.23
9:7A:11:TYR:HE1	9:7B:26:LEU:CB	1.52	1.23
1:EC:282:TYR:CE2	10:8K:18:UNK:CB	2.22	1.22
1:HE:282:TYR:CZ	10:8U:15:UNK:O	1.90	1.22
1:AC:342:GLN:HE22	3:1C:55:HIS:CD2	1.58	1.22
2:BB:98:GLY:HA2	1:BC:254:GLU:CG	1.69	1.22
1:EE:402:ARG:NE	7:5B:824:ARG:HH22	1.32	1.22
1:FA:419:SER:OG	7:5C:1256:ARG:NE	1.70	1.22
1:FC:177:VAL:CG2	7:5A:915:PHE:CE2	2.03	1.22
2:KB:127:CYS:N	4:2C:38:VAL:CG1	1.87	1.22
5:3B:231:THR:O	5:3B:332:MET:HA	1.32	1.22
7:5A:1246:LEU:HG	9:7B:12:GLU:OE2	1.10	1.22
7:5A:1548:VAL:CA	7:5A:1569:GLU:CD	2.11	1.22
7:5C:1548:VAL:CA	7:5C:1569:GLU:CD	2.11	1.22
2:DD:86:ARG:HA	2:ED:281:TYR:CE1	1.72	1.22
1:IA:282:TYR:CE2	10:8V:19:UNK:N	2.05	1.22
2:KB:273:LEU:CA	6:4A:268:LEU:HD23	1.57	1.22

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LF:274:THR:O	6:4D:228:LEU:CD2	1.88	1.22
7:5A:1491:LEU:HD22	7:5A:1495:PHE:CG	1.73	1.22
7:5B:1491:LEU:HD22	7:5B:1495:PHE:CG	1.73	1.22
7:5C:1491:LEU:HD22	7:5C:1495:PHE:CG	1.74	1.22
1:CE:60:LYS:NZ	1:DE:283:HIS:NE2	1.86	1.22
2:FB:55:THR:HG23	2:GB:283:ALA:CA	1.68	1.22
1:JE:89:PRO:CG	1:KE:280:LYS:HG2	1.67	1.22
1:KC:79:ARG:CA	1:LC:280:LYS:NZ	2.02	1.22
2:LB:331:LEU:CG	4:2C:42:PHE:CZ	2.23	1.22
5:3B:231:THR:C	5:3B:332:MET:HA	1.63	1.22
5:3C:231:THR:C	5:3C:332:MET:HA	1.63	1.22
2:EB:125:GLU:CG	7:5C:903:PHE:CE2	2.20	1.21
1:EE:282:TYR:CE2	10:8L:18:UNK:CB	2.21	1.21
1:FC:402:ARG:NH2	7:5A:1262:GLU:CD	1.97	1.21
2:FD:55:THR:CG2	2:GD:284:LEU:H	1.53	1.21
2:LB:296:ALA:CB	4:2C:149:ILE:CG2	2.12	1.21
5:3A:231:THR:C	5:3A:332:MET:HA	1.63	1.21
5:3A:231:THR:O	5:3A:332:MET:HA	1.32	1.21
2:ED:125:GLU:CB	7:5A:903:PHE:CE2	2.23	1.21
1:IC:389:SER:CB	5:3C:307:LYS:HD3	1.69	1.21
1:JA:87:PHE:O	1:KA:283:HIS:CE1	1.92	1.21
1:LA:89:PRO:HG3	1:MA:280:LYS:CE	1.70	1.21
1:LE:176:GLN:NE2	4:2B:42:PHE:CD2	2.09	1.21
7:5B:1487:ASN:CG	7:5B:1568:LYS:HE2	1.65	1.21
7:5B:1552:LYS:HZ1	7:5B:1563:SER:CB	1.40	1.21
7:5C:1246:LEU:CG	9:7F:12:GLU:OE2	1.89	1.21
9:7C:7:LEU:CD2	9:7D:27:GLY:HA3	1.57	1.21
2:CD:86:ARG:CB	2:DD:281:TYR:CE1	2.22	1.21
1:FA:419:SER:HB2	7:5C:1256:ARG:NE	1.40	1.21
1:FE:422:ARG:NH2	7:5B:1170:THR:C	1.98	1.21
7:5A:1487:ASN:CG	7:5A:1568:LYS:HE2	1.65	1.21
7:5C:1487:ASN:CG	7:5C:1568:LYS:HE2	1.65	1.21
1:JE:370:LYS:CE	10:9A:17:UNK:CB	2.17	1.21
2:JF:86:ARG:CZ	2:KF:280:GLN:HB2	1.62	1.21
5:3C:231:THR:O	5:3C:332:MET:HA	1.32	1.21
2:GF:58:ARG:NH2	2:HF:281:TYR:CZ	2.08	1.21
1:KA:62:VAL:CG2	1:LA:285:GLN:CB	2.17	1.21
2:KD:87:PRO:CG	2:LD:282:ARG:CG	2.19	1.21
1:MC:282:TYR:CD2	6:4A:104:ARG:HD3	1.76	1.21
2:KB:158:GLU:CA	4:2C:34:ASN:CB	2.12	1.20
1:KE:85:GLN:HA	1:LE:283:HIS:CA	1.70	1.20

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:86:ARG:NH1	2:LF:283:ALA:CB	1.99	1.20
1:LA:60:LYS:CD	6:4C:101:ARG:HH22	1.53	1.20
2:KD:221:THR:CG2	6:4B:261:SER:O	1.83	1.20
2:LD:274:THR:O	6:4B:228:LEU:CD2	1.89	1.20
1:LE:60:LYS:CD	6:4B:101:ARG:HH22	1.54	1.20
1:LE:101:ASN:ND2	2:LF:252:LYS:HD2	1.55	1.20
2:MB:98:GLY:HA2	1:MC:254:GLU:CG	1.69	1.20
1:AE:342:GLN:NE2	3:1A:55:HIS:CD2	2.08	1.20
2:DB:98:GLY:HA2	1:DC:254:GLU:CG	1.69	1.20
2:ED:125:GLU:HG2	7:5A:903:PHE:CD2	1.76	1.20
1:FA:422:ARG:NH2	7:5C:1170:THR:C	1.97	1.20
7:5B:829:GLY:O	8:6B:110:ASN:ND2	1.75	1.20
1:FE:419:SER:OG	7:5B:1256:ARG:NE	1.72	1.20
1:KC:372:MET:CB	6:4A:299:TYR:CE1	2.18	1.20
2:MD:98:GLY:HA2	1:ME:254:GLU:CG	1.70	1.20
7:5A:1152:GLU:OE1	8:6A:66:ARG:NH1	1.73	1.20
1:EA:402:ARG:NE	7:5C:824:ARG:HH22	1.38	1.20
2:FF:55:THR:CG2	2:GF:283:ALA:HA	1.72	1.20
1:IA:402:ARG:HH22	7:5C:1417:GLN:C	1.48	1.20
2:IB:424:GLN:NE2	7:5C:1413:GLN:CD	1.97	1.20
1:IE:389:SER:HB2	5:3A:307:LYS:CD	1.71	1.20
1:JA:89:PRO:HG3	1:KA:279:GLU:O	1.04	1.20
2:LD:306:ARG:NE	4:2A:149:ILE:HG22	1.57	1.20
2:LF:296:ALA:CB	4:2B:149:ILE:CG2	2.17	1.20
2:MB:221:THR:CG2	6:4A:189:ARG:HH22	1.54	1.20
2:MD:177:ASP:O	1:ME:352:LYS:HD2	1.42	1.20
7:5A:874:GLN:HB2	8:6A:59:LYS:NZ	1.55	1.20
2:BB:177:ASP:O	1:BC:352:LYS:HD2	1.36	1.19
2:DD:177:ASP:O	1:DE:352:LYS:HD2	1.37	1.19
2:FD:428:ALA:CB	7:5A:1080:PHE:HE1	1.35	1.19
2:GB:55:THR:CG2	2:HB:283:ALA:CA	1.76	1.19
2:KD:158:GLU:HA	4:2A:34:ASN:HB2	1.20	1.19
2:KD:177:ASP:O	1:KE:352:LYS:HD2	1.43	1.19
7:5B:1548:VAL:HG12	7:5B:1566:GLU:CA	1.64	1.19
2:AD:227:HIS:CE1	6:4C:135:LEU:CD1	2.26	1.19
2:EB:54:ALA:HA	2:FB:283:ALA:HB2	1.22	1.19
2:FB:55:THR:HG23	2:GB:283:ALA:C	1.65	1.19
1:FC:402:ARG:NH2	7:5A:1262:GLU:OE2	1.75	1.19
1:GA:89:PRO:CD	1:HA:280:LYS:HZ3	1.53	1.19
1:JC:89:PRO:HG2	1:KC:280:LYS:CA	1.65	1.19
9:7E:14:SER:OG	9:7F:34:PRO:HG2	1.40	1.19

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:282:TYR:CD2	10:8F:18:UNK:CB	2.25	1.19
2:HD:160:PRO:HB3	5:3C:330:ARG:HH21	1.07	1.19
2:HD:177:ASP:O	1:HE:352:LYS:HD2	1.43	1.19
2:IB:424:GLN:CD	7:5C:1413:GLN:NE2	2.01	1.19
2:KB:215:LEU:HD22	6:4A:267:ILE:O	1.03	1.19
2:KF:77:ARG:O	2:LF:281:TYR:OH	1.59	1.19
7:5A:1548:VAL:HG12	7:5A:1566:GLU:CA	1.64	1.19
7:5B:839:GLU:HG2	8:6B:107:PRO:O	1.42	1.19
9:7E:35:ILE:CG2	9:7F:42:LEU:O	1.91	1.19
2:CF:86:ARG:CB	2:DF:281:TYR:CE1	2.24	1.19
2:DD:86:ARG:CA	2:ED:281:TYR:CE1	2.26	1.19
2:EB:157:GLU:OE2	7:5C:935:LYS:NZ	1.73	1.19
1:FA:177:VAL:CG2	7:5C:915:PHE:CE2	1.97	1.19
2:FD:428:ALA:HB1	7:5A:1080:PHE:CE1	1.49	1.19
1:GE:60:LYS:HD3	1:HE:283:HIS:CB	1.73	1.19
2:HB:177:ASP:O	1:HC:352:LYS:HD2	1.43	1.19
2:ID:177:ASP:O	1:IE:352:LYS:HD2	1.43	1.19
1:KA:85:GLN:C	1:LA:283:HIS:HA	1.67	1.19
1:LA:89:PRO:CG	1:MA:280:LYS:HD2	1.72	1.19
1:MC:372:MET:HE3	6:4A:96:VAL:O	1.02	1.19
7:5C:1548:VAL:HG12	7:5C:1566:GLU:CA	1.64	1.19
2:CD:98:GLY:HA2	1:CE:254:GLU:CG	1.72	1.18
1:FA:56:THR:CA	1:GA:285:GLN:HB3	1.73	1.18
1:FA:89:PRO:CG	1:GA:280:LYS:CD	2.00	1.18
1:HA:278:ALA:HB1	10:8S:18:UNK:O	1.07	1.18
1:IA:282:TYR:CD2	10:8V:18:UNK:CB	2.26	1.18
2:KB:177:ASP:O	1:KC:352:LYS:HD2	1.43	1.18
2:LB:179:VAL:HG21	1:LC:258:ASN:O	1.41	1.18
2:LD:55:THR:CG2	2:MD:283:ALA:CA	2.00	1.18
1:MA:279:GLU:OE1	6:4C:107:MET:N	1.76	1.18
7:5A:1243:ASP:CG	9:7B:8:ARG:HH12	1.49	1.18
1:FC:422:ARG:NH2	7:5A:1170:THR:C	1.99	1.18
1:KC:85:GLN:HA	1:LC:283:HIS:CA	1.72	1.18
2:KD:276:ARG:NH2	6:4B:271:GLU:O	1.77	1.18
7:5A:841:VAL:HG21	8:6A:11:PRO:HA	1.21	1.18
2:BD:177:ASP:CG	1:BE:353:VAL:HG12	1.55	1.18
1:DC:402:ARG:CZ	7:5A:777:ALA:CB	2.14	1.18
2:DD:98:GLY:HA2	1:DE:254:GLU:CG	1.72	1.18
1:FE:402:ARG:NH2	7:5B:1262:GLU:OE2	1.75	1.18
2:KF:217:LEU:HB3	6:4D:265:TYR:OH	1.02	1.18
2:BD:179:VAL:HG21	1:BE:258:ASN:O	1.44	1.18

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:422:ARG:HH21	7:5C:1170:THR:CA	1.55	1.18
2:KB:217:LEU:CB	6:4A:265:TYR:OH	1.90	1.18
4:2A:176:ARG:O	4:2A:180:LYS:N	1.75	1.18
4:2B:176:ARG:O	4:2B:180:LYS:N	1.75	1.18
4:2C:176:ARG:O	4:2C:180:LYS:N	1.75	1.18
9:7A:7:LEU:CD2	9:7B:27:GLY:HA2	1.60	1.18
2:DB:177:ASP:O	1:DC:352:LYS:HD2	1.40	1.18
2:FF:428:ALA:CB	7:5B:1080:PHE:CE1	2.20	1.18
2:JB:87:PRO:HG3	2:KB:277:GLY:O	1.41	1.18
2:KB:276:ARG:HE	6:4A:265:TYR:HB2	1.05	1.18
2:KF:77:ARG:HG2	2:LF:281:TYR:OH	1.44	1.18
2:LF:306:ARG:HE	4:2B:149:ILE:CG2	1.56	1.18
2:CD:177:ASP:O	1:CE:352:LYS:HD2	1.42	1.17
2:EB:125:GLU:CB	7:5C:903:PHE:CE2	2.25	1.17
1:EE:370:LYS:HE2	10:8L:17:UNK:CB	1.73	1.17
1:KA:85:GLN:HA	1:LA:283:HIS:CA	1.72	1.17
9:7E:14:SER:OG	9:7F:34:PRO:HG3	1.29	1.17
1:DE:282:TYR:CE2	10:8I:18:UNK:CB	2.26	1.17
1:FA:282:TYR:HE2	10:8M:18:UNK:CB	1.30	1.17
1:FA:402:ARG:NH2	7:5C:1262:GLU:CD	2.02	1.17
1:HA:278:ALA:CB	10:8S:18:UNK:O	1.92	1.17
2:IB:177:ASP:O	1:IC:352:LYS:HD2	1.43	1.17
2:KB:87:PRO:HG2	2:LB:282:ARG:CG	1.61	1.17
2:KB:158:GLU:HA	4:2C:34:ASN:CB	1.72	1.17
1:KC:88:HIS:HA	1:LC:284:GLU:CB	1.37	1.17
2:LB:340:TYR:CD1	4:2C:147:PHE:HB2	1.78	1.17
7:5A:1105:TYR:CB	7:5A:1166:LEU:H	1.56	1.17
7:5B:1105:TYR:CB	7:5B:1166:LEU:H	1.56	1.17
7:5C:1105:TYR:CB	7:5C:1166:LEU:H	1.56	1.17
1:DC:282:TYR:CE2	10:8H:18:UNK:CB	2.26	1.17
2:KB:54:ALA:HB1	2:LB:285:THR:HG23	1.27	1.17
1:KC:88:HIS:CA	1:LC:284:GLU:CB	2.12	1.17
2:KD:221:THR:HG22	6:4B:261:SER:O	1.38	1.17
2:LB:379:LYS:HA	4:2C:166:ILE:CD1	1.59	1.17
2:LD:276:ARG:HH12	6:4B:229:GLU:CA	1.48	1.17
2:CD:98:GLY:HA2	1:CE:254:GLU:HG2	1.19	1.17
1:EE:430:LYS:HZ1	7:5B:834:ASN:CG	1.51	1.17
2:EF:157:GLU:OE2	7:5B:935:LYS:NZ	1.75	1.17
2:FB:55:THR:H	2:GB:283:ALA:HA	1.01	1.17
2:FB:428:ALA:CB	7:5C:1080:PHE:CE1	2.11	1.17
2:LD:340:TYR:CG	4:2A:147:PHE:HB2	1.78	1.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MB:212:PHE:HZ	1:MC:326:LYS:CD	1.55	1.17
7:5A:839:GLU:CG	8:6A:107:PRO:O	1.92	1.17
7:5C:1284:PHE:CZ	9:7E:12:GLU:HB2	1.70	1.17
2:BB:179:VAL:HG21	1:BC:258:ASN:O	1.45	1.17
1:JC:279:GLU:OE2	10:8Z:22:UNK:C	1.91	1.17
2:KF:54:ALA:CB	2:LF:285:THR:HG21	1.71	1.17
2:KF:273:LEU:CA	6:4D:268:LEU:CD2	2.24	1.17
1:LE:89:PRO:CG	1:ME:280:LYS:HD2	1.75	1.17
7:5B:1544:ILE:HG23	7:5B:1569:GLU:O	1.43	1.17
7:5B:1552:LYS:NZ	7:5B:1563:SER:HB2	0.86	1.17
2:BD:177:ASP:O	1:BE:352:LYS:HD2	1.40	1.16
2:CD:397:TRP:CE3	1:CE:257:THR:CG2	2.19	1.16
1:FA:419:SER:CB	7:5C:1256:ARG:HE	1.46	1.16
1:FE:177:VAL:HG23	7:5B:915:PHE:CZ	1.81	1.16
1:IC:389:SER:HB2	5:3C:307:LYS:CD	1.73	1.16
1:JE:279:GLU:OE2	10:9A:22:UNK:HA	1.41	1.16
2:LB:274:THR:O	6:4A:228:LEU:CD2	1.92	1.16
7:5B:1152:GLU:OE1	8:6B:66:ARG:NH1	1.78	1.16
2:AD:98:GLY:HA2	1:AE:254:GLU:HG2	1.19	1.16
2:EB:98:GLY:CA	1:EC:254:GLU:HG2	1.75	1.16
2:EB:125:GLU:C	7:5C:903:PHE:CZ	2.21	1.16
2:FD:54:ALA:C	2:GD:283:ALA:HB2	1.68	1.16
1:IA:402:ARG:NH2	7:5C:1417:GLN:HG3	1.47	1.16
2:IB:177:ASP:CG	1:IC:353:VAL:HG12	1.66	1.16
1:JA:89:PRO:HG2	1:KA:280:LYS:CA	1.72	1.16
2:JD:177:ASP:O	1:JE:352:LYS:HD2	1.43	1.16
2:JD:397:TRP:CG	1:JE:256:GLN:NE2	1.80	1.16
1:KA:359:PRO:HB3	6:4C:299:TYR:CE2	1.80	1.16
1:KE:85:GLN:OE1	1:LE:282:TYR:C	1.87	1.16
2:LB:340:TYR:CG	4:2C:147:PHE:CB	2.27	1.16
1:LC:60:LYS:HB2	6:4A:101:ARG:NH1	1.57	1.16
2:LD:306:ARG:NE	4:2A:149:ILE:CG2	2.05	1.16
7:5A:1552:LYS:NZ	7:5A:1563:SER:HB2	0.85	1.16
7:5C:773:ARG:O	7:5C:775:PRO:HD3	1.34	1.16
2:AD:284:LEU:HD11	6:4C:144:LEU:CD1	1.47	1.16
2:CB:179:VAL:HG21	1:CC:258:ASN:O	1.45	1.16
2:KF:272:PRO:O	6:4D:268:LEU:HD22	1.31	1.16
2:LD:179:VAL:HG21	1:LE:258:ASN:O	1.44	1.16
7:5A:1524:PHE:CD1	7:5A:1567:PHE:HZ	1.64	1.16
7:5B:1524:PHE:CD1	7:5B:1567:PHE:HZ	1.64	1.16
7:5C:1552:LYS:NZ	7:5C:1563:SER:HB2	0.85	1.16

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:177:ASP:O	1:AC:352:LYS:HD2	1.43	1.16
2:CB:98:GLY:HA2	1:CC:254:GLU:HG2	1.26	1.16
2:FB:331:LEU:HD22	7:5C:915:PHE:CZ	1.79	1.16
1:HC:278:ALA:CB	10:8T:18:UNK:O	1.91	1.16
2:KB:158:GLU:CA	4:2C:34:ASN:HB2	1.70	1.16
2:KF:88:ASP:OD1	2:LF:291:GLN:OE1	1.64	1.16
2:MB:98:GLY:HA2	1:MC:254:GLU:HG2	1.16	1.16
7:5A:773:ARG:O	7:5A:775:PRO:HD3	1.34	1.16
7:5C:1524:PHE:CD1	7:5C:1567:PHE:HZ	1.64	1.16
2:AD:177:ASP:O	1:AE:352:LYS:HD2	1.43	1.16
2:DD:179:VAL:HG21	1:DE:258:ASN:O	1.42	1.16
2:JB:397:TRP:CG	1:JC:256:GLN:NE2	1.84	1.16
1:JE:89:PRO:CD	1:KE:283:HIS:CE1	2.22	1.16
2:KB:54:ALA:CB	2:LB:285:THR:HG22	1.68	1.16
1:KC:372:MET:HB3	6:4A:299:TYR:CE1	1.57	1.16
7:5B:773:ARG:O	7:5B:775:PRO:HD3	1.34	1.16
2:DD:220:PRO:O	1:DE:324:VAL:CG1	1.95	1.15
2:FB:428:ALA:CB	7:5C:1080:PHE:HE1	1.36	1.15
1:FE:422:ARG:NH2	7:5B:1170:THR:HA	1.60	1.15
1:GE:56:THR:OG1	1:HE:284:GLU:HA	1.41	1.15
1:HE:159:VAL:HG21	5:3A:209:ARG:CZ	1.75	1.15
2:KB:217:LEU:HB3	6:4A:265:TYR:OH	0.99	1.15
1:LA:222:PRO:HD2	2:LB:324:LYS:HD3	1.25	1.15
2:LB:340:TYR:CD1	4:2C:147:PHE:CB	2.29	1.15
2:LF:296:ALA:HB3	4:2B:149:ILE:HG23	1.19	1.15
2:MD:179:VAL:HG21	1:ME:258:ASN:O	1.46	1.15
6:4C:244:GLU:HG2	6:4C:284:LEU:CD1	1.75	1.15
7:5A:1544:ILE:HG23	7:5A:1569:GLU:O	1.43	1.15
7:5C:1125:LEU:CD1	8:6C:245:GLN:OE1	1.94	1.15
9:7A:7:LEU:HD21	9:7B:27:GLY:O	1.46	1.15
9:7C:7:LEU:HD21	9:7D:27:GLY:O	1.46	1.15
1:FE:422:ARG:NH2	7:5B:1170:THR:CA	2.06	1.15
2:GB:177:ASP:O	1:GC:352:LYS:HD2	1.43	1.15
2:HD:261:PRO:CB	5:3C:337:ARG:NH2	2.01	1.15
1:IE:434:GLU:OE1	5:3A:61:SER:HB3	1.46	1.15
1:JA:128:ASN:ND2	1:KA:285:GLN:CD	2.03	1.15
6:4A:244:GLU:HG2	6:4A:284:LEU:CD1	1.75	1.15
7:5B:874:GLN:HB2	8:6B:59:LYS:NZ	1.59	1.15
9:7A:11:TYR:CD1	9:7B:26:LEU:CD2	2.28	1.15
9:7C:11:TYR:CD1	9:7D:26:LEU:CD2	2.28	1.15
1:FC:422:ARG:NH2	7:5A:1170:THR:CA	2.09	1.15

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FE:60:LYS:HD3	1:GE:283:HIS:HA	1.28	1.15
1:IA:402:ARG:NH2	7:5C:1417:GLN:C	2.04	1.15
2:ID:177:ASP:CG	1:IE:353:VAL:HG12	1.66	1.15
1:JC:279:GLU:OE2	10:8Z:22:UNK:O	1.64	1.15
2:KB:215:LEU:CD1	6:4A:267:ILE:CG2	2.16	1.15
2:LD:177:ASP:CG	1:LE:353:VAL:CG1	2.19	1.15
1:ME:279:GLU:O	6:4B:107:MET:CG	1.88	1.15
1:ME:279:GLU:OE1	6:4B:107:MET:N	1.80	1.15
6:4B:244:GLU:HG2	6:4B:284:LEU:CD1	1.76	1.15
2:AD:224:ASP:OD1	6:4C:131:VAL:C	1.89	1.15
2:AD:227:HIS:HE1	6:4C:135:LEU:CD1	1.57	1.15
2:CB:98:GLY:HA2	1:CC:254:GLU:CG	1.76	1.15
2:EF:55:THR:HG23	2:FF:283:ALA:CA	1.74	1.15
2:FB:54:ALA:CA	2:GB:283:ALA:CB	2.07	1.15
2:GD:177:ASP:O	1:GE:352:LYS:HD2	1.43	1.15
1:HC:159:VAL:HG21	5:3C:209:ARG:CZ	1.76	1.15
2:ID:397:TRP:CG	1:IE:256:GLN:NE2	1.80	1.15
1:IE:402:ARG:HH22	7:5B:1417:GLN:C	1.46	1.15
2:LF:276:ARG:NH1	6:4D:229:GLU:HA	1.60	1.15
6:4D:244:GLU:HG2	6:4D:284:LEU:CD1	1.76	1.15
2:AB:98:GLY:CA	1:AC:254:GLU:HG2	1.77	1.15
2:AD:98:GLY:CA	1:AE:254:GLU:HG2	1.77	1.15
1:CC:370:LYS:HE2	10:8E:17:UNK:CB	1.67	1.15
2:DD:397:TRP:CE3	1:DE:257:THR:CG2	2.24	1.15
1:FC:419:SER:OG	7:5A:1256:ARG:NE	1.79	1.15
2:GD:98:GLY:HA2	1:GE:254:GLU:HG2	1.19	1.15
2:GD:98:GLY:CA	1:GE:254:GLU:HG2	1.77	1.15
2:LB:276:ARG:HH12	6:4A:229:GLU:CA	1.53	1.15
2:LD:276:ARG:NH1	6:4B:229:GLU:HA	1.61	1.15
2:MB:177:ASP:CG	1:MC:353:VAL:HG12	1.70	1.15
1:ME:372:MET:HE3	6:4B:96:VAL:O	0.97	1.15
2:DB:179:VAL:HG21	1:DC:258:ASN:O	1.46	1.14
1:EC:402:ARG:NE	7:5A:824:ARG:HH22	1.43	1.14
1:FC:177:VAL:HG23	7:5A:915:PHE:CZ	1.82	1.14
2:GB:98:GLY:CA	1:GC:254:GLU:HG2	1.77	1.14
2:IB:397:TRP:CG	1:IC:256:GLN:NE2	1.84	1.14
1:IC:402:ARG:NH2	7:5A:1417:GLN:C	1.89	1.14
2:JB:177:ASP:O	1:JC:352:LYS:HD2	1.43	1.14
2:KF:221:THR:HG22	6:4D:261:SER:O	1.47	1.14
1:LA:89:PRO:HG3	1:MA:280:LYS:CD	1.76	1.14
1:MA:372:MET:HE3	6:4C:96:VAL:C	1.72	1.14

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1544:ILE:HG23	7:5C:1569:GLU:O	1.43	1.14
9:7E:7:LEU:CD2	9:7F:27:GLY:CA	2.24	1.14
2:AD:356:ILE:HD12	6:4C:152:PHE:CE1	1.82	1.14
1:CC:60:LYS:NZ	1:DC:283:HIS:NE2	1.94	1.14
2:DB:86:ARG:HA	2:EB:281:TYR:CZ	1.82	1.14
2:DB:98:GLY:HA2	1:DC:254:GLU:HG2	1.19	1.14
2:DF:86:ARG:HA	2:EF:281:TYR:CE1	1.82	1.14
1:FA:402:ARG:NH2	7:5C:1262:GLU:OE2	1.79	1.14
2:IB:424:GLN:CD	7:5C:1413:GLN:HE21	1.51	1.14
2:KB:177:ASP:CG	1:KC:353:VAL:HG12	1.66	1.14
1:KC:359:PRO:HB3	6:4A:299:TYR:CE2	1.82	1.14
2:KD:217:LEU:HB3	6:4B:265:TYR:OH	0.98	1.14
2:KD:273:LEU:CA	6:4B:268:LEU:HD23	1.76	1.14
1:LC:89:PRO:CG	1:MC:280:LYS:HD2	1.78	1.14
7:5A:839:GLU:OE2	8:6A:11:PRO:CG	1.94	1.14
9:7C:15:VAL:CB	9:7D:35:ILE:CD1	2.24	1.14
2:CB:397:TRP:CE3	1:CC:257:THR:CG2	2.18	1.14
2:CB:397:TRP:CE3	1:CC:257:THR:HG22	1.81	1.14
2:HD:98:GLY:CA	1:HE:254:GLU:HG2	1.77	1.14
1:IA:402:ARG:HH21	7:5C:1417:GLN:CG	1.50	1.14
1:JA:89:PRO:HG2	1:KA:280:LYS:HA	1.22	1.14
2:JB:177:ASP:CG	1:JC:353:VAL:HG12	1.66	1.14
2:KB:86:ARG:HG2	2:LB:288:GLU:OE2	1.48	1.14
2:KB:98:GLY:HA2	1:KC:254:GLU:HG2	1.18	1.14
2:MB:177:ASP:O	1:MC:352:LYS:HD2	1.46	1.14
5:3B:231:THR:O	5:3B:332:MET:CA	1.95	1.14
1:DC:400:ALA:O	7:5A:775:PRO:CB	1.96	1.14
2:ED:177:ASP:OD2	1:EE:353:VAL:CG1	1.94	1.14
2:ED:177:ASP:O	1:EE:352:LYS:HD2	1.44	1.14
2:ED:179:VAL:HG21	1:EE:258:ASN:O	1.43	1.14
2:FD:428:ALA:CB	7:5A:1080:PHE:CE1	2.12	1.14
1:FE:419:SER:CB	7:5B:1256:ARG:HE	1.46	1.14
1:IC:58:ALA:CB	10:8Z:13:UNK:N	2.10	1.14
2:JB:87:PRO:HG2	2:KB:277:GLY:O	1.33	1.14
1:JE:89:PRO:HD3	1:KE:283:HIS:CE1	1.82	1.14
1:LA:60:LYS:HZ3	1:MA:283:HIS:CG	1.65	1.14
1:LE:245:ASP:OD1	6:4B:216:ARG:NH2	1.79	1.14
2:EB:125:GLU:CA	7:5C:903:PHE:CZ	2.11	1.14
2:ED:220:PRO:O	1:EE:324:VAL:CG1	1.96	1.14
2:HB:98:GLY:CA	1:HC:254:GLU:HG2	1.77	1.14
2:ID:98:GLY:CA	1:IE:254:GLU:HG2	1.77	1.14

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JD:98:GLY:CA	1:JE:254:GLU:HG2	1.77	1.14
2:KB:215:LEU:CD2	6:4A:267:ILE:O	1.96	1.14
2:LF:276:ARG:HH12	6:4D:229:GLU:CA	1.44	1.14
5:3A:231:THR:O	5:3A:332:MET:CA	1.95	1.14
9:7A:15:VAL:CB	9:7B:35:ILE:CD1	2.24	1.14
2:ED:125:GLU:CA	7:5A:903:PHE:CZ	2.10	1.13
2:ID:86:ARG:CA	2:JD:281:TYR:CE1	2.30	1.13
2:KB:77:ARG:CG	2:LB:281:TYR:CZ	2.29	1.13
2:KD:179:VAL:HG21	1:KE:258:ASN:O	1.48	1.13
5:3C:231:THR:O	5:3C:332:MET:CA	1.95	1.13
2:BB:177:ASP:CG	1:BC:353:VAL:HG12	1.60	1.13
2:BD:86:ARG:HA	2:CD:281:TYR:CE1	1.84	1.13
2:CF:86:ARG:NH1	2:DF:281:TYR:HA	1.63	1.13
1:EA:430:LYS:HZ2	7:5C:834:ASN:CG	1.47	1.13
2:ED:98:GLY:CA	1:EE:254:GLU:HG2	1.77	1.13
1:FC:422:ARG:NH2	7:5A:1170:THR:HA	1.62	1.13
2:GB:55:THR:OG1	2:HB:282:ARG:O	1.65	1.13
2:GD:179:VAL:HG21	1:GE:258:ASN:O	1.48	1.13
2:HB:177:ASP:CG	1:HC:353:VAL:HG12	1.66	1.13
2:ID:179:VAL:HG21	1:IE:258:ASN:O	1.48	1.13
2:JB:98:GLY:CA	1:JC:254:GLU:HG2	1.77	1.13
2:AB:98:GLY:HA2	1:AC:254:GLU:HG2	1.18	1.13
2:AD:177:ASP:CG	1:AE:353:VAL:HG12	1.66	1.13
2:AD:223:GLY:CA	6:4C:131:VAL:HB	1.77	1.13
2:AF:224:ASP:OD1	6:4A:132:LYS:N	1.80	1.13
2:CB:87:PRO:HD2	2:DB:281:TYR:CE2	1.84	1.13
2:EB:177:ASP:O	1:EC:352:LYS:HD2	1.48	1.13
2:HD:177:ASP:CG	1:HE:353:VAL:HG12	1.66	1.13
2:IB:98:GLY:CA	1:IC:254:GLU:HG2	1.77	1.13
2:JF:86:ARG:CZ	2:KF:280:GLN:HB3	1.70	1.13
2:KB:98:GLY:CA	1:KC:254:GLU:HG2	1.77	1.13
2:KD:177:ASP:CG	1:KE:353:VAL:HG12	1.66	1.13
2:LD:306:ARG:NH1	4:2A:151:VAL:CG2	2.12	1.13
2:LF:55:THR:CG2	2:MF:283:ALA:CA	2.06	1.13
1:FA:177:VAL:HG23	7:5C:915:PHE:CZ	1.84	1.13
2:FD:55:THR:N	2:GD:283:ALA:HB2	1.62	1.13
2:FD:331:LEU:HD22	7:5A:915:PHE:CZ	1.84	1.13
2:IF:86:ARG:CA	2:JF:281:TYR:CE1	2.31	1.13
1:JA:91:GLN:N	1:KA:280:LYS:NZ	1.93	1.13
2:JD:177:ASP:CG	1:JE:353:VAL:HG12	1.66	1.13
2:LB:177:ASP:OD2	1:LC:248:LEU:CD2	1.97	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MB:179:VAL:HG21	1:MC:258:ASN:O	1.48	1.13
7:5A:1091:LYS:O	7:5A:1095:GLU:CG	1.96	1.13
7:5B:1091:LYS:O	7:5B:1095:GLU:CG	1.96	1.13
7:5C:1091:LYS:O	7:5C:1095:GLU:CG	1.96	1.13
2:AB:177:ASP:CG	1:AC:353:VAL:HG12	1.66	1.12
2:DD:177:ASP:OD2	1:DE:353:VAL:HG13	1.49	1.12
2:EB:220:PRO:O	1:EC:324:VAL:CG1	1.98	1.12
2:GD:177:ASP:CG	1:GE:353:VAL:HG12	1.66	1.12
1:KC:85:GLN:OE1	1:LC:282:TYR:HB2	1.45	1.13
2:KD:87:PRO:HG2	2:LD:282:ARG:CG	1.77	1.13
1:LC:89:PRO:HG3	1:MC:280:LYS:CE	1.78	1.12
1:MA:279:GLU:O	6:4C:107:MET:CG	1.90	1.13
2:JF:88:ASP:CB	2:KF:278:SER:OG	1.95	1.12
2:LF:306:ARG:CZ	4:2B:151:VAL:CG2	2.27	1.12
1:MC:279:GLU:OE1	6:4A:107:MET:N	1.82	1.12
6:4C:264:GLY:O	6:4C:273:ARG:HB2	1.43	1.12
7:5B:1284:PHE:CZ	9:7C:12:GLU:HB2	1.74	1.13
9:7C:7:LEU:HD21	9:7D:27:GLY:C	1.72	1.13
1:ME:372:MET:HE3	6:4B:96:VAL:C	1.73	1.12
2:AB:397:TRP:CG	1:AC:256:GLN:NE2	1.84	1.12
1:FC:60:LYS:HD3	1:GC:283:HIS:CA	1.78	1.12
1:HC:415:GLU:CG	5:3C:235:LEU:HB2	1.79	1.12
1:LE:89:PRO:HG3	1:ME:280:LYS:CD	1.78	1.12
6:4A:264:GLY:O	6:4A:273:ARG:HB2	1.43	1.12
7:5B:1499:LYS:CE	7:5B:1513:ASP:O	1.96	1.12
2:AD:397:TRP:CG	1:AE:256:GLN:NE2	1.80	1.12
1:AE:342:GLN:HE22	3:1A:55:HIS:CD2	1.66	1.12
2:CD:87:PRO:HD2	2:DD:281:TYR:CE2	1.85	1.12
1:DE:400:ALA:O	7:5B:775:PRO:HB2	1.34	1.12
2:GB:177:ASP:CG	1:GC:353:VAL:HG12	1.66	1.12
2:KD:54:ALA:CB	2:LD:285:THR:HG21	1.67	1.12
2:KD:98:GLY:CA	1:KE:254:GLU:HG2	1.77	1.12
2:LB:77:ARG:NH1	6:4A:204:ARG:HH21	1.33	1.12
2:LB:177:ASP:CG	1:LC:353:VAL:HG12	1.71	1.12
2:LB:296:ALA:CB	4:2C:149:ILE:HG23	1.55	1.12
2:MD:98:GLY:HA2	1:ME:254:GLU:HG2	1.21	1.12
7:5A:1499:LYS:CE	7:5A:1513:ASP:O	1.96	1.12
2:AD:217:LEU:HD22	6:4C:132:LYS:HG2	1.30	1.12
2:AD:223:GLY:HA3	6:4C:131:VAL:HB	1.31	1.12
2:DB:220:PRO:O	1:DC:324:VAL:CG1	1.98	1.12
1:DC:402:ARG:NH2	7:5A:777:ALA:HB3	1.64	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FD:177:ASP:CG	1:FE:353:VAL:HG12	1.60	1.12
1:HE:415:GLU:CG	5:3A:235:LEU:HB2	1.78	1.12
1:IA:402:ARG:NE	7:5C:1417:GLN:HG3	1.65	1.12
1:JC:89:PRO:CB	1:KC:280:LYS:CG	2.04	1.12
2:KD:98:GLY:HA2	1:KE:254:GLU:HG2	1.19	1.12
2:MD:106:TYR:CE1	3:1B:32:ARG:NH1	2.18	1.12
7:5C:1499:LYS:CE	7:5C:1513:ASP:O	1.96	1.12
2:AF:40:SER:OG	6:4A:152:PHE:CE2	2.00	1.12
2:DD:85:PHE:C	2:ED:281:TYR:OH	1.92	1.12
2:EB:397:TRP:CG	1:EC:256:GLN:NE2	1.96	1.12
2:HD:98:GLY:HA2	1:HE:254:GLU:HG2	1.19	1.12
2:KF:77:ARG:CG	2:LF:281:TYR:CZ	2.33	1.12
2:KF:215:LEU:HD22	6:4D:267:ILE:O	1.49	1.12
1:LC:60:LYS:HZ3	1:MC:283:HIS:CG	1.66	1.12
2:LD:306:ARG:HE	4:2A:149:ILE:HG22	0.95	1.12
1:ME:76:ASP:OD1	2:MF:46:ARG:NH2	1.81	1.12
6:4B:264:GLY:O	6:4B:273:ARG:HB2	1.43	1.12
6:4D:264:GLY:O	6:4D:273:ARG:HB2	1.43	1.12
2:AD:179:VAL:HG21	1:AE:258:ASN:O	1.48	1.11
2:DD:98:GLY:HA2	1:DE:254:GLU:HG2	1.22	1.11
2:FB:177:ASP:OD1	1:FC:353:VAL:HG11	1.50	1.11
1:IA:58:ALA:CB	10:8Y:13:UNK:CB	2.26	1.11
2:JD:86:ARG:CZ	2:KD:280:GLN:HB2	1.77	1.11
2:KD:77:ARG:CG	2:LD:281:TYR:CZ	2.31	1.11
2:MD:106:TYR:CZ	3:1B:32:ARG:NH1	2.18	1.11
7:5A:1284:PHE:CZ	9:7A:12:GLU:HB2	1.72	1.11
2:BF:86:ARG:HA	2:CF:281:TYR:CE1	1.85	1.11
2:DD:177:ASP:OD2	1:DE:353:VAL:CG1	1.95	1.11
2:GB:98:GLY:HA2	1:GC:254:GLU:HG2	1.18	1.11
2:HD:179:VAL:HG21	1:HE:258:ASN:O	1.48	1.11
2:IB:179:VAL:HG21	1:IC:258:ASN:O	1.50	1.11
1:IC:402:ARG:CZ	7:5A:1417:GLN:HG3	1.80	1.11
1:KA:62:VAL:HG22	1:LA:285:GLN:HB3	1.16	1.11
2:KB:77:ARG:HG2	2:LB:281:TYR:CE1	1.85	1.11
2:KB:179:VAL:HG21	1:KC:258:ASN:O	1.51	1.11
2:KF:55:THR:HG21	2:LF:363:MET:HE1	1.12	1.11
2:LF:416:ASN:O	4:2B:168:LEU:HD11	1.50	1.11
7:5B:1491:LEU:CD2	7:5B:1495:PHE:CD1	2.32	1.11
7:5B:1530:ILE:HD13	7:5B:1571:MET:CE	1.78	1.11
7:5C:1530:ILE:HD13	7:5C:1571:MET:CE	1.78	1.11
9:7A:11:TYR:CE1	9:7B:26:LEU:CD2	2.34	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:223:GLY:C	6:4C:131:VAL:HB	1.74	1.11
2:BB:397:TRP:CG	1:BC:256:GLN:HE22	1.41	1.11
1:CA:370:LYS:HE2	10:8D:17:UNK:CB	1.72	1.11
2:EB:177:ASP:OD2	1:EC:353:VAL:CG1	1.98	1.11
1:EC:398:MET:SD	2:ED:345:ILE:HG13	1.91	1.11
2:FB:177:ASP:CG	1:FC:353:VAL:HG12	1.69	1.11
1:IA:402:ARG:NH2	7:5C:1417:GLN:HG2	1.55	1.11
2:LB:55:THR:CG2	2:MB:283:ALA:CA	2.02	1.11
7:5A:1530:ILE:HD13	7:5A:1571:MET:CE	1.78	1.11
7:5B:1491:LEU:HA	7:5B:1495:PHE:HB3	1.23	1.11
9:7C:15:VAL:HA	9:7D:35:ILE:HD12	1.32	1.11
2:CD:179:VAL:HG21	1:CE:258:ASN:O	1.49	1.11
2:EB:55:THR:HG23	2:FB:283:ALA:HA	1.14	1.11
2:FD:54:ALA:HA	2:GD:283:ALA:HB2	1.23	1.11
2:FD:98:GLY:HA2	1:FE:254:GLU:HG3	1.33	1.11
2:GB:86:ARG:NH2	2:HB:281:TYR:CD2	1.86	1.11
2:GB:179:VAL:HG21	1:GC:258:ASN:O	1.51	1.11
1:HE:278:ALA:CB	10:8U:22:UNK:N	2.11	1.11
2:JD:98:GLY:HA2	1:JE:254:GLU:HG2	1.19	1.11
2:KD:215:LEU:HD13	6:4B:267:ILE:CG2	1.81	1.11
7:5A:1491:LEU:CD2	7:5A:1495:PHE:CD1	2.32	1.11
9:7A:7:LEU:HD21	9:7B:27:GLY:C	1.72	1.11
9:7E:12:GLU:O	9:7E:16:THR:OG1	1.69	1.11
2:AF:217:LEU:CD2	6:4A:132:LYS:HG2	1.81	1.11
1:FA:398:MET:SD	2:FB:345:ILE:HG13	1.91	1.11
1:HC:415:GLU:HG2	5:3C:235:LEU:CB	1.81	1.11
1:HE:415:GLU:HG2	5:3A:235:LEU:CB	1.81	1.11
2:KB:83:GLN:NE2	2:LB:281:TYR:CE2	2.03	1.11
2:KB:273:LEU:CA	6:4A:268:LEU:HD21	1.73	1.11
2:LD:177:ASP:OD2	1:LE:248:LEU:HD21	1.47	1.11
1:LE:222:PRO:CG	2:LF:324:LYS:HD3	1.80	1.11
2:DB:177:ASP:OD2	1:DC:353:VAL:HG13	1.51	1.10
1:IA:279:GLU:OE2	10:8V:22:UNK:C	1.99	1.10
1:IE:278:ALA:HB1	10:8X:18:UNK:O	1.50	1.10
2:JF:86:ARG:NH1	2:KF:280:GLN:HB3	1.64	1.10
1:MA:372:MET:HE3	6:4C:96:VAL:O	0.93	1.10
7:5A:1491:LEU:HA	7:5A:1495:PHE:HB3	1.23	1.10
7:5B:839:GLU:OE2	8:6B:11:PRO:CG	1.99	1.10
7:5C:829:GLY:O	8:6C:110:ASN:ND2	1.84	1.10
7:5C:1491:LEU:CD2	7:5C:1495:PHE:CD1	2.32	1.10
2:AD:362:LYS:HG2	6:4C:146:ILE:HB	1.25	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FD:55:THR:HG21	2:GD:284:LEU:H	1.07	1.10
2:HD:397:TRP:CG	1:HE:256:GLN:NE2	1.80	1.10
1:IC:402:ARG:NH2	7:5A:1418:GLN:N	1.98	1.10
2:JD:179:VAL:HG21	1:JE:258:ASN:O	1.48	1.10
1:KC:79:ARG:O	1:LC:280:LYS:HE2	1.45	1.10
9:7C:12:GLU:O	9:7C:16:THR:OG1	1.69	1.10
1:EC:430:LYS:HZ2	7:5A:834:ASN:CG	1.57	1.10
2:ED:125:GLU:O	7:5A:903:PHE:HZ	1.05	1.10
1:FA:422:ARG:NH2	7:5C:1170:THR:CA	2.13	1.10
2:FD:177:ASP:OD1	1:FE:353:VAL:HG11	1.51	1.10
2:HB:397:TRP:CG	1:HC:256:GLN:NE2	1.84	1.10
1:IC:58:ALA:HB2	10:8Z:13:UNK:N	1.66	1.10
2:KD:276:ARG:HH21	6:4B:265:TYR:CA	1.63	1.10
2:LB:331:LEU:CG	4:2C:42:PHE:HZ	1.62	1.10
1:LC:89:PRO:HG3	1:MC:280:LYS:CD	1.82	1.10
2:LD:296:ALA:CB	4:2A:149:ILE:HG23	1.55	1.10
9:7C:11:TYR:CE1	9:7D:26:LEU:CD2	2.34	1.10
1:EC:423:GLU:OE2	7:5A:830:VAL:HG12	0.94	1.10
1:EC:423:GLU:CD	7:5A:830:VAL:HG12	1.76	1.10
1:EE:423:GLU:OE2	7:5B:830:VAL:HG12	0.94	1.10
1:FE:402:ARG:CZ	7:5B:1262:GLU:OE2	1.99	1.10
1:HE:415:GLU:HG2	5:3A:235:LEU:HB2	1.28	1.10
1:IC:402:ARG:HH21	7:5A:1417:GLN:CG	1.62	1.10
2:KF:158:GLU:O	4:2B:34:ASN:O	1.69	1.10
9:7C:14:SER:C	9:7D:35:ILE:HD11	1.77	1.10
9:7E:7:LEU:HD22	9:7F:27:GLY:HA3	1.12	1.10
2:BD:98:GLY:HA2	1:BE:254:GLU:HG2	1.19	1.10
2:DB:177:ASP:OD2	1:DC:353:VAL:CG1	1.98	1.10
2:DF:85:PHE:O	2:EF:281:TYR:OH	1.67	1.10
2:EB:125:GLU:O	7:5C:903:PHE:HZ	1.17	1.10
2:ED:55:THR:HG23	2:FD:283:ALA:HA	1.17	1.10
1:IC:282:TYR:CE2	10:8W:15:UNK:O	2.03	1.10
2:ID:98:GLY:HA2	1:IE:254:GLU:HG2	1.19	1.10
1:MA:76:ASP:OD1	2:MB:46:ARG:NH2	1.82	1.10
4:2B:172:ASP:HB2	4:2B:173:PRO:HD2	1.14	1.10
6:4D:221:MET:SD	6:4D:222:PRO:CD	2.38	1.10
7:5C:1491:LEU:HA	7:5C:1495:PHE:HB3	1.23	1.10
9:7D:12:GLU:CA	9:7D:16:THR:OG1	2.00	1.10
1:AE:283:HIS:O	2:MB:54:ALA:CB	1.98	1.09
2:BB:98:GLY:HA2	1:BC:254:GLU:HG2	1.24	1.09
2:GB:55:THR:CG2	2:HB:283:ALA:CB	2.17	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HC:278:ALA:HB3	10:8T:22:UNK:N	1.67	1.09
2:IB:98:GLY:HA2	1:IC:254:GLU:HG2	1.19	1.09
1:JC:89:PRO:HG2	1:KC:280:LYS:HA	1.12	1.09
1:JE:279:GLU:OE2	10:9A:22:UNK:CA	1.99	1.09
2:LB:276:ARG:NH1	6:4A:229:GLU:HA	1.64	1.09
6:4B:221:MET:SD	6:4B:222:PRO:CD	2.38	1.09
7:5B:1484:TYR:CA	7:5B:1487:ASN:HB2	1.82	1.09
9:7A:14:SER:C	9:7B:35:ILE:HD11	1.77	1.09
2:AB:179:VAL:HG21	1:AC:258:ASN:O	1.51	1.09
2:BD:397:TRP:CG	1:BE:256:GLN:HE22	1.45	1.09
1:EA:282:TYR:HE2	10:8J:18:UNK:CB	1.55	1.09
2:ED:125:GLU:C	7:5A:903:PHE:CE2	2.29	1.09
1:FC:60:LYS:CD	1:GC:283:HIS:HA	1.82	1.09
4:2C:172:ASP:HB2	4:2C:173:PRO:HD2	1.15	1.09
6:4C:221:MET:SD	6:4C:222:PRO:CD	2.38	1.09
7:5A:1484:TYR:CA	7:5A:1487:ASN:HB2	1.82	1.09
7:5C:1484:TYR:CA	7:5C:1487:ASN:HB2	1.82	1.09
9:7F:12:GLU:CA	9:7F:16:THR:OG1	2.00	1.09
2:AF:356:ILE:HD12	6:4A:152:PHE:CE1	1.86	1.09
2:BD:98:GLY:CA	1:BE:254:GLU:HG2	1.82	1.09
1:CA:60:LYS:NZ	1:DA:283:HIS:NE2	2.01	1.09
2:EB:125:GLU:HG2	7:5C:903:PHE:CD2	1.88	1.09
2:ED:177:ASP:OD2	1:EE:353:VAL:HG13	1.48	1.09
2:GB:412:GLU:OE2	7:5C:1323:MET:CE	1.99	1.09
2:HB:179:VAL:HG21	1:HC:258:ASN:O	1.51	1.09
2:KB:54:ALA:HB1	2:LB:285:THR:HG22	1.18	1.09
2:KB:54:ALA:HB2	2:LB:285:THR:HG21	1.10	1.09
4:2A:172:ASP:HB2	4:2A:173:PRO:HD2	1.14	1.09
6:4A:221:MET:SD	6:4A:222:PRO:CD	2.38	1.09
7:5B:1552:LYS:HZ3	7:5B:1563:SER:CB	1.53	1.09
9:7A:12:GLU:O	9:7A:16:THR:OG1	1.69	1.09
9:7B:12:GLU:CA	9:7B:16:THR:OG1	2.00	1.09
9:7C:7:LEU:CD2	9:7D:27:GLY:HA2	1.60	1.09
1:CC:282:TYR:CD2	10:8E:18:UNK:CB	2.35	1.09
2:DD:86:ARG:HA	2:ED:281:TYR:CZ	1.87	1.09
2:FB:98:GLY:HA2	1:FC:254:GLU:HG3	1.28	1.09
2:GF:405:GLU:OE2	7:5B:1337:ASP:OD2	1.70	1.09
1:IC:389:SER:HB2	5:3C:307:LYS:HD3	1.10	1.09
2:KD:77:ARG:HG2	2:LD:281:TYR:CE1	1.86	1.09
2:KF:125:GLU:OE1	2:LF:332:ASN:ND2	1.86	1.09
2:LF:416:ASN:C	4:2B:168:LEU:CD1	2.19	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4D:244:GLU:HG2	6:4D:284:LEU:HD11	1.19	1.09
9:7C:15:VAL:CB	9:7D:35:ILE:HD13	1.83	1.09
1:DC:414:GLU:OE2	7:5A:789:LYS:HE3	1.52	1.09
2:FD:179:VAL:HG21	1:FE:258:ASN:O	1.48	1.09
1:HE:420:GLU:OE1	5:3A:215:TYR:CZ	2.06	1.09
2:KB:276:ARG:NH2	6:4A:265:TYR:HA	1.67	1.09
2:KB:276:ARG:HH21	6:4A:265:TYR:HA	0.92	1.09
1:LC:407:TRP:CH2	2:LD:254:ALA:O	2.05	1.09
7:5B:1490:LYS:C	7:5B:1495:PHE:CB	2.26	1.09
9:7A:7:LEU:CD2	9:7B:27:GLY:HA3	1.57	1.09
1:AE:285:GLN:HA	2:MB:55:THR:CG2	1.81	1.08
2:FB:98:GLY:C	1:FC:254:GLU:HG2	1.78	1.08
1:HE:159:VAL:HG22	5:3A:209:ARG:NH2	1.67	1.08
2:KB:273:LEU:CG	6:4A:268:LEU:HD21	1.80	1.08
1:KE:372:MET:HB3	6:4B:299:TYR:CE1	1.83	1.08
2:LB:98:GLY:HA2	1:LC:254:GLU:HG2	1.35	1.08
2:LB:177:ASP:OD1	1:LC:353:VAL:CG1	1.99	1.08
1:LC:222:PRO:HD2	2:LD:324:LYS:HD3	1.31	1.08
7:5C:1284:PHE:CE2	9:7E:12:GLU:HB3	1.88	1.08
2:HB:98:GLY:HA2	1:HC:254:GLU:HG2	1.19	1.08
2:JB:98:GLY:HA2	1:JC:254:GLU:HG2	1.19	1.08
2:JB:179:VAL:HG21	1:JC:258:ASN:O	1.50	1.08
2:KF:87:PRO:HG3	2:LF:282:ARG:HG3	1.12	1.08
1:LA:221:ARG:NH1	2:LB:323:THR:C	2.11	1.08
2:MD:397:TRP:CG	1:ME:256:GLN:NE2	1.90	1.08
6:4B:244:GLU:HG2	6:4B:284:LEU:HD11	1.18	1.08
7:5A:1490:LYS:C	7:5A:1495:PHE:CB	2.26	1.08
7:5B:826:LEU:HD23	7:5B:840:GLY:HA2	1.24	1.08
9:7A:15:VAL:HA	9:7B:35:ILE:HD12	1.31	1.08
2:FD:54:ALA:HA	2:GD:283:ALA:CB	1.84	1.08
2:LD:397:TRP:CE3	1:LE:257:THR:HG22	1.87	1.08
7:5A:1533:GLU:HB3	7:5A:1581:ILE:HG21	1.34	1.08
7:5B:1533:GLU:HB3	7:5B:1581:ILE:HG21	1.34	1.08
2:DF:54:ALA:HA	2:EF:283:ALA:HB2	1.36	1.08
2:ED:157:GLU:CD	7:5A:935:LYS:NZ	2.11	1.08
1:FA:422:ARG:NH2	7:5C:1170:THR:HA	1.68	1.08
2:KF:276:ARG:NH2	6:4D:271:GLU:O	1.87	1.08
2:LB:177:ASP:OD2	1:LC:248:LEU:HD21	1.51	1.08
1:MC:76:ASP:OD1	2:MD:46:ARG:NH2	1.84	1.08
6:4C:244:GLU:HG2	6:4C:284:LEU:HD11	1.18	1.08
7:5A:826:LEU:HD23	7:5A:840:GLY:HA2	1.24	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:826:LEU:HD23	7:5C:840:GLY:HA2	1.24	1.08
7:5C:1490:LYS:C	7:5C:1495:PHE:CB	2.26	1.08
2:BB:86:ARG:HA	2:CB:281:TYR:CE1	1.89	1.08
2:CF:87:PRO:HD2	2:DF:281:TYR:CE2	1.89	1.08
1:GE:402:ARG:HD2	5:3A:381:ASN:ND2	1.68	1.08
1:HE:278:ALA:HB3	10:8U:22:UNK:CA	1.83	1.08
2:HF:261:PRO:CB	5:3A:337:ARG:NH2	2.06	1.08
2:LD:397:TRP:CE3	1:LE:257:THR:CG2	2.26	1.08
1:MA:283:HIS:CD2	6:4C:101:ARG:HH22	1.72	1.08
6:4A:244:GLU:HG2	6:4A:284:LEU:HD11	1.18	1.08
7:5B:1544:ILE:HD12	7:5B:1574:ILE:CG1	1.81	1.08
7:5C:1533:GLU:HB3	7:5C:1581:ILE:HG21	1.34	1.08
2:AF:361:LEU:HD22	6:4A:144:LEU:CD1	1.83	1.07
2:BD:177:ASP:OD2	1:BE:353:VAL:HG13	1.54	1.07
2:CB:220:PRO:O	1:CC:324:VAL:CG1	2.01	1.07
2:EB:179:VAL:HG21	1:EC:258:ASN:O	1.50	1.07
1:EE:398:MET:SD	2:EF:345:ILE:HG13	1.94	1.07
2:GB:55:THR:HG21	2:HB:283:ALA:HA	1.33	1.07
2:LB:379:LYS:HG2	4:2C:166:ILE:HD12	1.30	1.07
2:LB:397:TRP:CE3	1:LC:257:THR:HG22	1.88	1.07
2:LF:296:ALA:HB2	4:2B:149:ILE:CG2	1.70	1.07
7:5C:1547:SER:O	7:5C:1569:GLU:OE1	1.70	1.07
2:DB:397:TRP:CE3	1:DC:257:THR:HG22	1.85	1.07
2:EB:177:ASP:OD2	1:EC:353:VAL:HG13	1.51	1.07
1:FA:419:SER:OG	7:5C:1256:ARG:CZ	2.01	1.07
2:KF:215:LEU:HD13	6:4D:267:ILE:HG22	1.13	1.07
2:LB:306:ARG:NH1	4:2C:151:VAL:HG23	1.56	1.07
2:LD:340:TYR:CD1	4:2A:147:PHE:HB2	1.90	1.07
7:5A:1284:PHE:CE2	9:7A:12:GLU:HB3	1.88	1.07
7:5A:1481:GLN:O	7:5A:1485:LYS:N	1.86	1.07
7:5A:1544:ILE:HD12	7:5A:1574:ILE:CG1	1.81	1.07
7:5A:1547:SER:O	7:5A:1569:GLU:OE1	1.70	1.07
7:5B:1284:PHE:CE2	9:7C:12:GLU:HB3	1.90	1.07
7:5B:1481:GLN:O	7:5B:1485:LYS:N	1.86	1.07
7:5C:1481:GLN:O	7:5C:1485:LYS:N	1.86	1.07
7:5C:1490:LYS:HG3	7:5C:1494:LEU:HD23	1.22	1.07
7:5C:1565:GLU:HB2	7:5C:1568:LYS:HB2	1.11	1.07
9:7A:14:SER:O	9:7B:35:ILE:HD11	1.52	1.07
9:7E:11:TYR:OH	9:7F:23:LEU:O	1.72	1.07
1:DC:400:ALA:O	7:5A:775:PRO:HB2	1.51	1.07
2:DD:397:TRP:CE3	1:DE:257:THR:HG22	1.88	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ED:54:ALA:HA	2:FD:283:ALA:HB2	1.31	1.07
2:ED:98:GLY:HA2	1:EE:254:GLU:HG2	1.14	1.07
1:HC:282:TYR:CE2	10:8T:19:UNK:N	2.22	1.07
1:JE:279:GLU:CD	10:9A:22:UNK:CA	2.25	1.07
2:LD:177:ASP:CG	1:LE:353:VAL:HG12	1.79	1.07
1:LE:89:PRO:CD	1:ME:280:LYS:HZ3	1.47	1.07
7:5A:1565:GLU:HB2	7:5A:1568:LYS:HB2	1.11	1.07
7:5B:1547:SER:O	7:5B:1569:GLU:OE1	1.70	1.07
7:5B:1565:GLU:HB2	7:5B:1568:LYS:HB2	1.11	1.07
7:5C:829:GLY:HA2	8:6C:109:ILE:HG21	1.29	1.07
7:5C:1544:ILE:HD12	7:5C:1574:ILE:CG1	1.81	1.07
7:5C:1548:VAL:CG1	7:5C:1565:GLU:O	2.02	1.07
9:7E:11:TYR:CE1	9:7F:26:LEU:HB3	1.89	1.07
2:CD:397:TRP:CE3	1:CE:257:THR:HG22	1.83	1.07
1:EA:396:ASP:HB2	7:5C:817:LEU:CD2	1.78	1.07
1:GE:56:THR:HG1	1:HE:284:GLU:HA	1.04	1.07
1:GE:409:VAL:HG11	5:3A:383:GLU:OE2	0.90	1.07
1:IC:402:ARG:NH2	7:5A:1417:GLN:HG3	1.65	1.07
1:LE:101:ASN:HD21	2:LF:252:LYS:HD2	0.91	1.07
1:MC:279:GLU:O	6:4A:107:MET:CG	1.97	1.07
7:5A:1490:LYS:HG3	7:5A:1494:LEU:HD23	1.22	1.07
7:5A:1548:VAL:CG1	7:5A:1565:GLU:O	2.02	1.07
9:7E:30:ARG:HH12	9:7F:3:GLN:HA	0.92	1.07
2:CD:86:ARG:NH1	2:DD:281:TYR:HA	1.69	1.07
2:CD:177:ASP:OD2	1:CE:353:VAL:CG1	2.01	1.07
2:DB:98:GLY:CA	1:DC:254:GLU:HG2	1.84	1.07
2:ED:177:ASP:OD1	1:EE:353:VAL:CG1	2.02	1.07
2:FB:397:TRP:CG	1:FC:256:GLN:NE2	1.95	1.07
1:GA:89:PRO:HG3	1:HA:280:LYS:CE	1.85	1.07
1:HC:159:VAL:HG22	5:3C:209:ARG:NH2	1.68	1.07
2:KD:273:LEU:CA	6:4B:268:LEU:HD21	1.81	1.07
2:KF:158:GLU:CA	4:2B:34:ASN:HB2	1.81	1.07
2:LF:306:ARG:NH2	4:2B:151:VAL:CG2	2.16	1.07
7:5C:1355:GLN:HA	7:5C:1358:LYS:HG3	1.37	1.07
2:AF:359:LYS:CA	6:4A:151:ARG:NH2	2.17	1.06
2:EF:55:THR:HG23	2:FF:283:ALA:HA	1.08	1.06
1:FC:419:SER:CB	7:5A:1256:ARG:HE	1.51	1.06
1:IE:402:ARG:NH2	7:5B:1418:GLN:N	2.00	1.06
2:LB:306:ARG:CZ	4:2C:149:ILE:HG22	1.85	1.06
2:LB:397:TRP:CE3	1:LC:257:THR:CG2	2.21	1.06
2:LD:306:ARG:NH2	4:2A:151:VAL:CG2	2.16	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MD:177:ASP:CG	1:ME:353:VAL:HG12	1.71	1.06
7:5A:1355:GLN:HA	7:5A:1358:LYS:HG3	1.37	1.06
7:5B:1245:GLY:CA	9:7D:12:GLU:OE1	2.03	1.06
7:5B:1490:LYS:HG3	7:5B:1494:LEU:HD23	1.22	1.06
7:5B:1548:VAL:CG1	7:5B:1565:GLU:O	2.02	1.06
2:AF:40:SER:CB	6:4A:152:PHE:CD2	2.37	1.06
2:BD:177:ASP:OD2	1:BE:353:VAL:CG1	2.03	1.06
2:EB:98:GLY:HA2	1:EC:254:GLU:HG2	1.11	1.06
1:FA:222:PRO:CG	2:FB:324:LYS:HD3	1.83	1.06
1:IE:402:ARG:HH22	7:5B:1418:GLN:CA	1.66	1.06
2:JB:88:ASP:HB2	2:KB:278:SER:OG	1.54	1.06
1:JE:279:GLU:OE2	10:9A:22:UNK:C	2.04	1.06
2:KF:215:LEU:CD1	6:4D:267:ILE:HG22	1.86	1.06
2:LB:379:LYS:HA	4:2C:166:ILE:HD13	1.11	1.06
1:LE:407:TRP:CH2	2:LF:254:ALA:O	2.07	1.06
2:LF:276:ARG:HH12	6:4D:229:GLU:HA	0.91	1.06
1:MA:372:MET:HE2	6:4C:96:VAL:N	1.70	1.06
2:MB:98:GLY:CA	1:MC:254:GLU:HG2	1.83	1.06
2:MD:98:GLY:CA	1:ME:254:GLU:HG2	1.85	1.06
4:2C:12:LEU:CD2	4:2C:20:LYS:HB2	1.85	1.06
7:5C:874:GLN:CB	8:6C:59:LYS:NZ	2.18	1.06
7:5C:1545:TYR:CA	7:5C:1570:ALA:HB2	1.84	1.06
9:7A:30:ARG:HH11	9:7B:3:GLN:HG2	1.17	1.06
1:CA:282:TYR:CD2	10:8D:18:UNK:CB	2.39	1.06
2:CD:220:PRO:O	1:CE:324:VAL:CG1	2.03	1.06
1:DE:402:ARG:CZ	7:5B:777:ALA:CB	2.32	1.06
1:GE:370:LYS:CE	10:8R:18:UNK:N	2.19	1.06
2:ID:424:GLN:CD	7:5A:1413:GLN:HE21	1.52	1.06
1:KA:88:HIS:HA	1:LA:284:GLU:CA	1.83	1.06
2:KD:54:ALA:HB1	2:LD:285:THR:HG22	1.32	1.06
2:KD:54:ALA:HB1	2:LD:285:THR:HG23	1.35	1.06
1:LC:222:PRO:CG	2:LD:324:LYS:HD3	1.84	1.06
2:LD:177:ASP:OD2	1:LE:248:LEU:CD2	2.03	1.06
4:2A:12:LEU:CD2	4:2A:20:LYS:HB2	1.85	1.06
7:5B:1243:ASP:CG	9:7D:8:ARG:HH12	1.63	1.06
7:5B:1355:GLN:HA	7:5B:1358:LYS:HG3	1.37	1.06
7:5B:1515:GLU:HG2	7:5B:1563:SER:HA	1.25	1.06
9:7A:42:LEU:CD1	9:7B:39:GLY:HA2	1.84	1.06
2:AD:361:LEU:HD22	6:4C:144:LEU:CD1	1.85	1.06
2:FF:55:THR:N	2:GF:283:ALA:HB2	1.70	1.06
1:JE:89:PRO:CG	1:KE:280:LYS:HA	1.85	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MB:397:TRP:CG	1:MC:256:GLN:NE2	1.96	1.06
1:ME:372:MET:HE2	6:4B:96:VAL:N	1.70	1.06
7:5A:1545:TYR:CA	7:5A:1570:ALA:HB2	1.84	1.06
7:5C:1484:TYR:HA	7:5C:1487:ASN:CB	1.86	1.06
7:5C:1515:GLU:HG2	7:5C:1563:SER:HA	1.25	1.06
9:7C:42:LEU:CD1	9:7D:39:GLY:HA2	1.84	1.06
2:BB:98:GLY:CA	1:BC:254:GLU:HG2	1.85	1.06
2:BB:177:ASP:OD1	1:BC:353:VAL:CG1	2.03	1.06
2:CB:397:TRP:CG	1:CC:256:GLN:NE2	1.96	1.06
2:CD:98:GLY:CA	1:CE:254:GLU:HG2	1.86	1.06
2:DB:397:TRP:CE3	1:DC:257:THR:CG2	2.20	1.06
2:EB:157:GLU:CD	7:5C:935:LYS:NZ	2.14	1.06
2:FB:54:ALA:HA	2:GB:283:ALA:HB3	1.30	1.06
1:FC:402:ARG:HD3	7:5A:1259:TYR:CD2	1.90	1.06
2:FD:55:THR:CG2	2:GD:283:ALA:HA	1.85	1.06
1:GC:409:VAL:CG1	5:3C:383:GLU:OE2	2.03	1.06
1:IC:278:ALA:CB	10:8W:18:UNK:O	2.02	1.06
4:2B:12:LEU:CD2	4:2B:20:LYS:HB2	1.85	1.06
7:5A:1484:TYR:HA	7:5A:1487:ASN:HB2	1.09	1.06
7:5A:1484:TYR:HA	7:5A:1487:ASN:CB	1.86	1.06
7:5A:1515:GLU:HG2	7:5A:1563:SER:HA	1.25	1.06
7:5B:1484:TYR:HA	7:5B:1487:ASN:CB	1.86	1.06
7:5B:1545:TYR:CA	7:5B:1570:ALA:HB2	1.84	1.06
7:5C:1484:TYR:HA	7:5C:1487:ASN:HB2	1.09	1.06
2:EF:125:GLU:HA	7:5B:903:PHE:CD2	1.90	1.05
2:FB:177:ASP:CG	1:FC:353:VAL:HG11	1.78	1.05
2:FD:177:ASP:O	1:FE:352:LYS:HD2	1.53	1.05
1:FE:419:SER:OG	7:5B:1256:ARG:CZ	2.03	1.05
1:IA:282:TYR:CE2	10:8V:18:UNK:C	2.26	1.05
1:MC:372:MET:HE3	6:4A:96:VAL:C	1.80	1.05
7:5A:1105:TYR:CD1	7:5A:1165:PRO:HA	1.92	1.05
7:5B:1105:TYR:CD1	7:5B:1165:PRO:HA	1.91	1.05
7:5B:1475:PHE:CE2	7:5B:1565:GLU:CD	2.34	1.05
7:5C:1105:TYR:CD1	7:5C:1165:PRO:HA	1.92	1.05
9:7C:14:SER:O	9:7D:35:ILE:HD11	1.52	1.05
9:7C:15:VAL:HG13	9:7D:35:ILE:HD13	1.07	1.05
2:AB:55:THR:HG23	2:BB:283:ALA:CB	1.86	1.05
2:AF:223:GLY:HA3	6:4A:131:VAL:HB	1.38	1.05
2:DF:86:ARG:CA	2:EF:281:TYR:CE1	2.40	1.05
2:EB:177:ASP:OD1	1:EC:353:VAL:CG1	2.04	1.05
1:EE:423:GLU:CD	7:5B:830:VAL:HG12	1.80	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JA:89:PRO:HG2	1:KA:280:LYS:HG2	1.34	1.05
1:KC:85:GLN:OE1	1:LC:282:TYR:CB	2.03	1.05
2:KD:158:GLU:CA	4:2A:34:ASN:HB2	1.74	1.05
1:MC:283:HIS:CD2	6:4A:101:ARG:HH22	1.74	1.05
7:5A:1475:PHE:CE2	7:5A:1565:GLU:CD	2.34	1.05
7:5B:1484:TYR:HA	7:5B:1487:ASN:HB2	1.09	1.05
2:CB:177:ASP:OD2	1:CC:353:VAL:CG1	2.02	1.05
1:FC:402:ARG:CZ	7:5A:1262:GLU:OE2	2.03	1.05
1:FC:423:GLU:OE2	7:5A:1256:ARG:CZ	2.04	1.05
1:GE:402:ARG:CZ	5:3A:381:ASN:HD22	1.55	1.05
2:IB:86:ARG:CA	2:JB:281:TYR:CE1	2.39	1.05
2:KB:86:ARG:NH1	2:LB:283:ALA:HB3	1.44	1.05
1:KE:88:HIS:CA	1:LE:284:GLU:HB2	1.84	1.05
2:LB:379:LYS:HB3	4:2C:166:ILE:HD11	1.05	1.05
7:5B:841:VAL:HG21	8:6B:11:PRO:HA	1.38	1.05
7:5B:1284:PHE:HZ	9:7C:12:GLU:HB2	0.91	1.05
7:5C:1475:PHE:CE2	7:5C:1565:GLU:CD	2.34	1.05
9:7A:15:VAL:HG13	9:7B:35:ILE:HD13	1.07	1.05
1:EA:396:ASP:CB	7:5C:817:LEU:HD23	1.81	1.05
2:FB:331:LEU:CD2	7:5C:915:PHE:CZ	2.40	1.05
2:FF:331:LEU:HD22	7:5B:915:PHE:CZ	1.92	1.05
2:GD:86:ARG:NH2	2:HD:281:TYR:CD2	2.09	1.05
1:JA:89:PRO:HB2	1:KA:280:LYS:HG3	1.37	1.05
2:KD:77:ARG:HG2	2:LD:281:TYR:OH	1.55	1.05
1:LA:89:PRO:CD	1:MA:280:LYS:HZ3	1.51	1.05
1:LA:407:TRP:CH2	2:LB:254:ALA:O	2.09	1.05
7:5B:1105:TYR:CG	7:5B:1165:PRO:HA	1.92	1.05
7:5C:1545:TYR:HA	7:5C:1570:ALA:HB2	1.39	1.05
2:BB:397:TRP:CG	1:BC:256:GLN:NE2	1.89	1.05
2:BD:177:ASP:OD1	1:BE:353:VAL:CG1	2.03	1.05
2:ED:125:GLU:HA	7:5A:903:PHE:CD2	1.92	1.05
2:KD:55:THR:CG2	2:LD:363:MET:HE1	1.87	1.05
2:KF:77:ARG:HG2	2:LF:281:TYR:CE1	1.89	1.05
2:LB:98:GLY:HA2	1:LC:254:GLU:CG	1.87	1.05
7:5A:1105:TYR:CG	7:5A:1165:PRO:HA	1.92	1.05
7:5A:1271:ILE:HA	9:7A:20:LEU:HD21	1.37	1.05
7:5A:1545:TYR:HA	7:5A:1570:ALA:HB2	1.39	1.05
7:5B:1545:TYR:HA	7:5B:1570:ALA:HB2	1.39	1.05
2:AD:359:LYS:CA	6:4C:151:ARG:NH2	2.19	1.04
2:AD:362:LYS:HG3	6:4C:144:LEU:O	1.57	1.04
2:CD:397:TRP:CG	1:CE:256:GLN:NE2	2.00	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:177:ASP:OD1	1:DC:353:VAL:CG1	2.03	1.04
2:LB:296:ALA:HB3	4:2C:149:ILE:HG23	1.08	1.04
1:LC:101:ASN:HD21	2:LD:252:LYS:HD2	0.87	1.04
2:LF:306:ARG:HE	4:2B:149:ILE:HG22	1.18	1.04
1:MA:283:HIS:CD2	6:4C:101:ARG:NH2	2.25	1.04
7:5C:1549:THR:CA	7:5C:1566:GLU:HG2	1.84	1.04
1:DE:402:ARG:NH2	7:5B:782:LEU:CD1	1.95	1.04
1:HC:415:GLU:CG	5:3C:235:LEU:CB	2.34	1.04
1:LA:101:ASN:HD21	2:LB:252:LYS:HD2	0.88	1.04
2:MB:106:TYR:CZ	3:1A:32:ARG:NH1	2.25	1.04
1:MC:279:GLU:HG3	6:4A:110:LYS:CE	1.87	1.04
7:5C:1105:TYR:CG	7:5C:1165:PRO:HA	1.92	1.04
7:5C:1544:ILE:HD13	7:5C:1570:ALA:O	1.55	1.04
1:FA:56:THR:OG1	1:GA:284:GLU:C	2.00	1.04
1:FE:207:GLU:OE1	7:5B:915:PHE:HB2	1.57	1.04
2:GB:397:TRP:CG	1:GC:256:GLN:NE2	1.84	1.04
1:JA:279:GLU:CD	10:8Y:22:UNK:HA	1.59	1.04
2:KB:82:GLY:O	2:LB:281:TYR:CE1	2.09	1.04
2:KF:86:ARG:CZ	2:LF:283:ALA:N	1.93	1.04
1:LA:222:PRO:CG	2:LB:324:LYS:HD3	1.87	1.04
7:5A:1487:ASN:CB	7:5A:1568:LYS:CE	2.15	1.04
7:5A:1544:ILE:HD13	7:5A:1570:ALA:O	1.55	1.04
7:5B:1482:SER:HA	7:5B:1485:LYS:HB2	1.35	1.04
7:5B:1487:ASN:OD1	7:5B:1568:LYS:CE	2.05	1.04
7:5C:1487:ASN:CB	7:5C:1568:LYS:CE	2.15	1.04
9:7C:30:ARG:HH11	9:7D:3:GLN:HG2	1.17	1.04
9:7C:39:GLY:HA3	9:7D:43:LEU:CG	1.87	1.04
2:AD:227:HIS:ND1	6:4C:135:LEU:HD11	1.72	1.04
2:DD:178:THR:HG23	1:DE:258:ASN:HD21	1.22	1.04
1:DE:402:ARG:NH2	7:5B:782:LEU:HD11	1.05	1.04
2:FD:55:THR:HG23	2:GD:283:ALA:HA	1.08	1.04
2:FD:177:ASP:OD1	1:FE:353:VAL:CG1	2.03	1.04
2:GD:397:TRP:CG	1:GE:256:GLN:NE2	1.80	1.04
2:ID:86:ARG:HA	2:JD:281:TYR:CZ	1.92	1.04
2:KD:276:ARG:HE	6:4B:265:TYR:HB2	1.23	1.04
2:KF:273:LEU:CA	6:4D:268:LEU:HD21	1.87	1.04
7:5A:1487:ASN:OD1	7:5A:1568:LYS:CE	2.05	1.04
1:DA:60:LYS:HD3	1:EA:283:HIS:HD2	1.23	1.04
1:FA:207:GLU:OE1	7:5C:915:PHE:HB2	1.58	1.04
2:FD:55:THR:N	2:GD:283:ALA:CB	2.21	1.04
2:IB:424:GLN:HE22	7:5C:1413:GLN:CD	1.56	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LB:340:TYR:CB	4:2C:147:PHE:HB2	1.88	1.04
7:5A:1549:THR:CA	7:5A:1566:GLU:HG2	1.84	1.04
7:5B:1487:ASN:CB	7:5B:1568:LYS:CE	2.15	1.04
7:5B:1549:THR:CA	7:5B:1566:GLU:HG2	1.84	1.04
7:5C:1487:ASN:OD1	7:5C:1568:LYS:CE	2.05	1.04
9:7A:39:GLY:HA3	9:7B:43:LEU:CG	1.87	1.04
9:7E:11:TYR:HE1	9:7F:26:LEU:HB3	1.16	1.04
2:CB:86:ARG:NH1	2:DB:281:TYR:HA	1.70	1.03
1:DA:402:ARG:NE	7:5C:777:ALA:HB3	1.53	1.03
1:EA:398:MET:SD	2:EB:345:ILE:HG13	1.98	1.03
1:FA:402:ARG:CZ	7:5C:1262:GLU:OE2	2.06	1.03
2:FD:177:ASP:OD2	1:FE:353:VAL:HG13	1.56	1.03
2:FD:177:ASP:OD2	1:FE:353:VAL:CG1	2.05	1.03
1:HC:415:GLU:HG2	5:3C:235:LEU:HB2	1.32	1.03
1:IA:278:ALA:CB	10:8V:21:UNK:CB	2.36	1.03
1:KE:88:HIS:HA	1:LE:284:GLU:HB2	1.11	1.03
7:5B:1544:ILE:HD13	7:5B:1570:ALA:O	1.55	1.03
7:5C:1573:ARG:O	7:5C:1577:LYS:CB	2.05	1.03
9:7A:15:VAL:CB	9:7B:35:ILE:HD13	1.83	1.03
2:DD:98:GLY:CA	1:DE:254:GLU:HG2	1.87	1.03
2:DD:177:ASP:OD1	1:DE:353:VAL:CG1	2.02	1.03
1:HE:419:SER:OG	5:3A:238:ILE:CD1	2.04	1.03
1:IC:429:GLU:OE1	5:3C:307:LYS:NZ	1.90	1.03
1:JE:89:PRO:HG2	1:KE:280:LYS:HA	1.09	1.03
1:KA:85:GLN:CD	1:LA:282:TYR:CB	2.27	1.03
1:KA:87:PHE:O	1:LA:283:HIS:O	1.75	1.03
2:KB:273:LEU:HA	6:4A:268:LEU:CG	1.88	1.03
7:5A:1482:SER:HA	7:5A:1485:LYS:HB2	1.36	1.03
7:5B:1573:ARG:O	7:5B:1577:LYS:CB	2.05	1.03
7:5C:1243:ASP:CG	9:7F:8:ARG:HH12	1.66	1.03
7:5C:1491:LEU:HD11	7:5C:1495:PHE:CE1	1.93	1.03
9:7E:38:LEU:HD23	9:7F:42:LEU:HD13	1.35	1.03
2:AB:177:ASP:OD1	1:AC:353:VAL:CG1	2.06	1.03
2:AD:40:SER:OG	6:4C:152:PHE:CE2	2.08	1.03
2:BD:397:TRP:CG	1:BE:256:GLN:NE2	1.92	1.03
2:EB:125:GLU:C	7:5C:903:PHE:CE2	2.37	1.03
1:FA:71:GLU:OE1	2:FB:247:ASN:ND2	1.92	1.03
2:GD:54:ALA:C	2:HD:283:ALA:HB2	1.82	1.03
1:IE:402:ARG:NH2	7:5B:1417:GLN:CG	2.21	1.03
2:JB:86:ARG:CZ	2:KB:280:GLN:CB	2.36	1.03
7:5A:1491:LEU:HD11	7:5A:1495:PHE:CE1	1.93	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1573:ARG:O	7:5A:1577:LYS:CB	2.05	1.03
7:5B:1548:VAL:HA	7:5B:1569:GLU:OE2	0.87	1.03
9:7E:35:ILE:HG21	9:7F:42:LEU:O	1.52	1.03
2:CB:177:ASP:OD1	1:CC:353:VAL:CG1	2.04	1.03
2:EF:157:GLU:CD	7:5B:935:LYS:NZ	2.16	1.03
2:FB:55:THR:HG23	2:GB:283:ALA:HA	1.38	1.03
1:FE:423:GLU:OE2	7:5B:1256:ARG:CZ	2.07	1.03
2:LD:276:ARG:HH12	6:4B:229:GLU:HA	0.87	1.03
7:5A:1548:VAL:HA	7:5A:1569:GLU:OE2	0.87	1.03
7:5B:1491:LEU:N	7:5B:1495:PHE:HB3	1.72	1.03
7:5B:1491:LEU:HD11	7:5B:1495:PHE:CE1	1.93	1.03
7:5B:1544:ILE:HD12	7:5B:1574:ILE:HG13	1.04	1.03
7:5C:1544:ILE:HD12	7:5C:1574:ILE:HG13	1.05	1.03
7:5C:1548:VAL:HG11	7:5C:1566:GLU:HA	1.33	1.03
2:AD:177:ASP:OD1	1:AE:353:VAL:CG1	2.07	1.03
2:AF:362:LYS:HG2	6:4A:146:ILE:HB	1.37	1.03
2:BB:177:ASP:OD2	1:BC:353:VAL:HG13	1.59	1.03
2:CD:177:ASP:OD2	1:CE:353:VAL:HG13	1.56	1.03
1:DA:402:ARG:NH2	7:5C:782:LEU:HD11	1.34	1.03
2:FD:98:GLY:C	1:FE:254:GLU:HG2	1.83	1.03
1:HE:159:VAL:HG21	5:3A:209:ARG:NE	1.73	1.03
1:HE:415:GLU:CG	5:3A:235:LEU:CB	2.36	1.03
1:IC:402:ARG:NH2	7:5A:1417:GLN:HG2	1.72	1.03
2:KD:397:TRP:CG	1:KE:256:GLN:NE2	1.80	1.03
2:LB:276:ARG:HH12	6:4A:229:GLU:HA	0.88	1.03
2:MB:106:TYR:CE1	3:1A:32:ARG:NH1	2.27	1.03
7:5A:1491:LEU:N	7:5A:1495:PHE:HB3	1.72	1.03
7:5C:1482:SER:HA	7:5C:1485:LYS:HB2	1.35	1.03
7:5C:1548:VAL:HA	7:5C:1569:GLU:OE2	0.87	1.03
2:AF:217:LEU:HD22	6:4A:132:LYS:HG2	1.37	1.02
2:AF:362:LYS:HG3	6:4A:144:LEU:O	1.58	1.02
2:GB:177:ASP:OD1	1:GC:353:VAL:HG11	1.60	1.02
1:GC:409:VAL:HG11	5:3C:383:GLU:OE1	1.57	1.02
1:HC:410:GLY:O	5:3C:329:ARG:NH2	1.92	1.02
1:HE:282:TYR:CE2	10:8U:18:UNK:C	2.33	1.02
2:IB:177:ASP:OD1	1:IC:353:VAL:CG1	2.06	1.02
2:KB:177:ASP:OD1	1:KC:353:VAL:CG1	2.06	1.02
1:LE:221:ARG:NH1	2:LF:323:THR:C	2.15	1.02
1:ME:283:HIS:CD2	6:4B:101:ARG:HH22	1.77	1.02
7:5A:1544:ILE:HD12	7:5A:1574:ILE:HG13	1.04	1.02
2:BD:220:PRO:O	1:BE:324:VAL:CG1	2.07	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:430:LYS:HZ1	7:5C:834:ASN:CG	1.51	1.02
2:EB:55:THR:HG23	2:FB:283:ALA:CA	1.89	1.02
2:ED:55:THR:HG23	2:FD:283:ALA:CA	1.88	1.02
2:HD:98:GLY:HA2	1:HE:254:GLU:HG3	1.41	1.02
2:IB:177:ASP:OD1	1:IC:353:VAL:HG11	1.60	1.02
2:KD:98:GLY:HA2	1:KE:254:GLU:HG3	1.41	1.02
2:KD:177:ASP:OD1	1:KE:353:VAL:CG1	2.07	1.02
2:LB:397:TRP:CG	1:LC:256:GLN:NE2	1.98	1.02
2:LF:224:ASP:H	6:4D:219:ASN:ND2	1.44	1.02
2:LF:296:ALA:CB	4:2B:149:ILE:HG23	1.78	1.02
1:MA:282:TYR:HD2	6:4C:104:ARG:HD3	1.06	1.02
7:5C:1491:LEU:N	7:5C:1495:PHE:HB3	1.72	1.02
9:7E:7:LEU:HD21	9:7F:27:GLY:O	1.57	1.02
2:AB:177:ASP:OD1	1:AC:353:VAL:HG11	1.60	1.02
1:DE:414:GLU:OE2	7:5B:789:LYS:HE3	1.57	1.02
2:EF:54:ALA:HA	2:FF:283:ALA:HB2	1.39	1.02
2:FB:179:VAL:HG21	1:FC:258:ASN:O	1.58	1.02
1:FC:222:PRO:CG	2:FD:324:LYS:HD3	1.88	1.02
1:FC:398:MET:SD	2:FD:345:ILE:HG13	1.99	1.02
2:HB:98:GLY:HA2	1:HC:254:GLU:HG3	1.42	1.02
1:HC:419:SER:OG	5:3C:238:ILE:CD1	2.07	1.02
2:KB:177:ASP:OD1	1:KC:353:VAL:HG11	1.59	1.02
2:KD:54:ALA:HB2	2:LD:285:THR:HG21	1.29	1.02
1:MA:11:GLN:OE1	2:MB:245:GLN:O	1.76	1.02
7:5A:1489:PHE:HA	7:5A:1492:SER:HB2	1.42	1.02
1:DA:402:ARG:NE	7:5C:777:ALA:HB2	1.74	1.02
2:EB:220:PRO:HD2	1:EC:326:LYS:HE2	1.41	1.02
1:EC:370:LYS:HZ3	10:8K:17:UNK:CB	1.56	1.02
1:FA:211:ASP:OD1	7:5C:913:ASN:O	1.78	1.02
1:FC:419:SER:OG	7:5A:1256:ARG:CZ	2.06	1.02
2:ID:177:ASP:OD1	1:IE:353:VAL:CG1	2.07	1.02
2:JD:86:ARG:CZ	2:KD:280:GLN:HB3	1.87	1.02
1:LA:89:PRO:CD	1:MA:280:LYS:HZ2	1.68	1.02
2:LB:306:ARG:NH1	4:2C:151:VAL:HG21	1.72	1.02
1:LC:60:LYS:HD2	6:4A:101:ARG:HH22	0.88	1.02
7:5A:1491:LEU:HD22	7:5A:1495:PHE:CD1	1.92	1.02
7:5A:1548:VAL:HG11	7:5A:1566:GLU:HA	1.33	1.02
7:5B:1487:ASN:CG	7:5B:1568:LYS:HG2	1.84	1.02
7:5B:1489:PHE:HA	7:5B:1492:SER:HB2	1.42	1.02
7:5B:1491:LEU:HD22	7:5B:1495:PHE:CD1	1.92	1.02
7:5C:1489:PHE:HA	7:5C:1492:SER:HB2	1.42	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1491:LEU:HD22	7:5C:1495:PHE:CD1	1.92	1.02
2:CB:177:ASP:OD2	1:CC:353:VAL:HG13	1.55	1.02
1:EE:282:TYR:HE2	10:8L:18:UNK:CB	1.68	1.02
1:FA:56:THR:HA	1:GA:285:GLN:HB3	1.06	1.02
1:FC:207:GLU:OE1	7:5A:915:PHE:HB2	1.59	1.02
1:FE:402:ARG:HD3	7:5B:1259:TYR:CD2	1.94	1.02
2:KF:158:GLU:HA	4:2B:34:ASN:HB2	1.39	1.02
1:LC:221:ARG:NH1	2:LD:323:THR:C	2.14	1.02
7:5A:1487:ASN:CG	7:5A:1568:LYS:HG2	1.84	1.02
2:CB:178:THR:HG23	1:CC:258:ASN:HD21	1.25	1.01
2:GB:177:ASP:OD1	1:GC:353:VAL:CG1	2.06	1.01
1:IA:282:TYR:HE2	10:8V:18:UNK:C	1.65	1.01
1:IA:402:ARG:HH21	7:5C:1417:GLN:HG2	1.14	1.01
1:IC:402:ARG:NE	7:5A:1417:GLN:HG3	1.73	1.01
2:ID:98:GLY:HA2	1:IE:254:GLU:HG3	1.41	1.01
2:KD:276:ARG:HH21	6:4B:265:TYR:HA	1.20	1.01
2:LB:379:LYS:CB	4:2C:166:ILE:HD11	1.58	1.01
1:MC:11:GLN:OE1	2:MD:245:GLN:O	1.76	1.01
7:5A:826:LEU:CD2	7:5A:840:GLY:HA2	1.89	1.01
7:5B:826:LEU:CD2	7:5B:840:GLY:HA2	1.89	1.01
7:5B:1152:GLU:OE1	8:6B:66:ARG:CZ	2.08	1.01
7:5C:826:LEU:CD2	7:5C:840:GLY:HA2	1.89	1.01
7:5C:1091:LYS:O	7:5C:1095:GLU:HG3	1.57	1.01
7:5C:1487:ASN:CG	7:5C:1568:LYS:HG2	1.84	1.01
9:7A:35:ILE:CG2	9:7B:42:LEU:O	2.08	1.01
2:AD:356:ILE:HD12	6:4C:152:PHE:CD1	1.95	1.01
1:EA:62:VAL:HG21	1:FA:283:HIS:O	1.60	1.01
2:GD:177:ASP:OD1	1:GE:353:VAL:CG1	2.07	1.01
2:HB:177:ASP:OD1	1:HC:353:VAL:CG1	2.06	1.01
1:IC:279:GLU:OE2	10:8W:22:UNK:CA	2.08	1.01
2:KD:125:GLU:CG	2:LD:336:LYS:HZ1	1.54	1.01
2:LB:83:GLN:O	2:MB:281:TYR:OH	1.78	1.01
2:LB:379:LYS:C	4:2C:166:ILE:HD11	1.85	1.01
7:5A:1091:LYS:O	7:5A:1095:GLU:HG3	1.57	1.01
9:7C:35:ILE:CG2	9:7D:42:LEU:O	2.08	1.01
1:DC:402:ARG:NH2	7:5A:782:LEU:HD11	1.21	1.01
2:EB:177:ASP:OD1	1:EC:353:VAL:HG11	1.57	1.01
2:ED:177:ASP:OD1	1:EE:353:VAL:HG11	1.59	1.01
2:JB:177:ASP:OD1	1:JC:353:VAL:HG11	1.59	1.01
2:KB:98:GLY:HA2	1:KC:254:GLU:HG3	1.42	1.01
7:5B:1091:LYS:O	7:5B:1095:GLU:HG3	1.57	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:827:GLU:CD	7:5C:849:ARG:HH21	1.69	1.01
9:7A:15:VAL:N	9:7B:35:ILE:HD11	1.76	1.01
1:AE:283:HIS:O	2:MB:54:ALA:HB1	1.60	1.01
1:CE:60:LYS:NZ	1:DE:283:HIS:CD2	2.28	1.01
1:DA:414:GLU:OE2	7:5C:789:LYS:HE3	1.58	1.01
2:FB:391:ARG:HG3	1:FC:346:TRP:CD1	1.95	1.01
2:GD:177:ASP:OD1	1:GE:353:VAL:HG11	1.61	1.01
2:HF:362:LYS:NZ	10:8U:36:UNK:O	1.93	1.01
2:ID:177:ASP:OD1	1:IE:353:VAL:HG11	1.61	1.01
2:JB:177:ASP:OD1	1:JC:353:VAL:CG1	2.06	1.01
1:JC:279:GLU:CD	10:8Z:22:UNK:CA	2.28	1.01
2:JD:177:ASP:OD1	1:JE:353:VAL:CG1	2.07	1.01
1:KC:85:GLN:OE1	1:LC:282:TYR:C	2.03	1.01
2:KD:177:ASP:OD1	1:KE:353:VAL:HG11	1.61	1.01
2:KD:217:LEU:CD2	6:4B:263:CYS:SG	2.48	1.01
1:KE:88:HIS:HA	1:LE:284:GLU:CB	1.67	1.01
2:KF:87:PRO:CG	2:LF:282:ARG:CG	2.39	1.01
1:LE:222:PRO:HD2	2:LF:324:LYS:HD3	1.37	1.01
1:ME:279:GLU:HG3	6:4B:110:LYS:CE	1.91	1.01
7:5A:827:GLU:CD	7:5A:849:ARG:HH21	1.69	1.01
7:5A:1246:LEU:CB	9:7B:12:GLU:OE2	2.07	1.01
7:5B:827:GLU:CD	7:5B:849:ARG:HH21	1.69	1.01
7:5B:839:GLU:OE2	8:6B:11:PRO:HG3	1.57	1.01
7:5B:1548:VAL:HG11	7:5B:1566:GLU:HA	1.33	1.01
7:5C:829:GLY:HA2	8:6C:109:ILE:CG2	1.90	1.01
7:5C:1246:LEU:N	9:7F:12:GLU:OE2	1.91	1.01
2:AD:55:THR:HG23	2:BD:283:ALA:CB	1.89	1.01
2:AD:177:ASP:OD1	1:AE:353:VAL:HG11	1.61	1.01
2:FD:98:GLY:HA2	1:FE:254:GLU:HG2	1.06	1.01
1:GE:60:LYS:HD3	1:HE:283:HIS:HB3	1.41	1.01
1:GE:409:VAL:CG1	5:3A:383:GLU:CD	2.26	1.01
1:KE:85:GLN:HE22	1:LE:282:TYR:HB3	1.26	1.01
1:LE:60:LYS:HZ3	1:ME:283:HIS:CG	1.77	1.01
2:LF:340:TYR:CD1	4:2B:147:PHE:HB2	1.94	1.01
1:ME:282:TYR:HD2	6:4B:104:ARG:HD3	1.06	1.01
7:5A:1552:LYS:HZ3	7:5A:1563:SER:CB	1.54	1.01
7:5B:1355:GLN:O	7:5B:1358:LYS:HG2	1.60	1.01
1:GE:56:THR:OG1	1:HE:284:GLU:CA	2.09	1.00
1:JA:279:GLU:CD	10:8Y:22:UNK:CA	2.23	1.00
2:KF:273:LEU:HA	6:4D:268:LEU:HD23	1.02	1.00
2:LD:306:ARG:HH22	4:2A:151:VAL:HG23	1.21	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:839:GLU:OE2	8:6A:11:PRO:HG2	1.56	1.00
7:5B:842:LEU:HD22	7:5B:842:LEU:H	1.25	1.00
7:5B:1490:LYS:CD	7:5B:1494:LEU:CB	2.22	1.00
9:7C:15:VAL:N	9:7D:35:ILE:HD11	1.76	1.00
2:AB:98:GLY:HA2	1:AC:254:GLU:HG3	1.42	1.00
2:AF:227:HIS:ND1	6:4A:135:LEU:HD11	1.76	1.00
2:BB:177:ASP:OD2	1:BC:353:VAL:CG1	2.10	1.00
1:DE:400:ALA:O	7:5B:775:PRO:HB3	1.61	1.00
2:ED:220:PRO:HD2	1:EE:326:LYS:HE2	1.43	1.00
2:FF:83:GLN:O	2:GF:281:TYR:OH	1.76	1.00
2:HD:177:ASP:OD1	1:HE:353:VAL:CG1	2.06	1.00
1:IA:402:ARG:NH1	7:5C:1417:GLN:C	2.17	1.00
2:KB:397:TRP:CG	1:KC:256:GLN:NE2	1.84	1.00
1:KE:79:ARG:O	1:LE:280:LYS:HE2	1.61	1.00
2:KF:276:ARG:HH21	6:4D:265:TYR:CA	1.73	1.00
1:LA:89:PRO:CG	1:MA:280:LYS:CD	2.37	1.00
2:LB:306:ARG:CZ	4:2C:149:ILE:CG2	2.36	1.00
2:MD:397:TRP:CG	1:ME:256:GLN:HE22	1.44	1.00
1:ME:282:TYR:HD2	6:4B:104:ARG:CD	1.74	1.00
7:5A:1355:GLN:O	7:5A:1358:LYS:HG2	1.60	1.00
7:5A:1490:LYS:CD	7:5A:1494:LEU:CB	2.22	1.00
7:5C:1355:GLN:O	7:5C:1358:LYS:HG2	1.60	1.00
7:5C:1549:THR:HA	7:5C:1566:GLU:HG2	1.43	1.00
2:BD:178:THR:HG23	1:BE:258:ASN:HD21	1.23	1.00
1:CA:370:LYS:HZ3	10:8D:17:UNK:CB	1.52	1.00
2:CD:177:ASP:OD1	1:CE:353:VAL:CG1	2.07	1.00
2:FB:55:THR:N	2:GB:283:ALA:HA	1.76	1.00
2:FD:397:TRP:CG	1:FE:256:GLN:NE2	1.91	1.00
5:3C:231:THR:O	5:3C:332:MET:C	2.05	1.00
7:5A:842:LEU:HD22	7:5A:842:LEU:H	1.26	1.00
7:5A:1549:THR:HA	7:5A:1566:GLU:HG2	1.43	1.00
7:5B:1549:THR:HA	7:5B:1566:GLU:HG2	1.43	1.00
7:5C:1284:PHE:HZ	9:7E:12:GLU:HB2	0.86	1.00
7:5C:1490:LYS:CD	7:5C:1494:LEU:CB	2.22	1.00
2:AF:40:SER:OG	6:4A:152:PHE:HE2	1.36	1.00
2:CB:98:GLY:CA	1:CC:254:GLU:HG2	1.92	1.00
1:FC:89:PRO:CD	1:GC:280:LYS:NZ	2.01	1.00
2:HD:178:THR:HG23	1:HE:258:ASN:HD21	1.26	1.00
1:KA:85:GLN:HA	1:LA:283:HIS:HA	1.03	1.00
2:LF:306:ARG:NE	4:2B:149:ILE:CG2	2.25	1.00
5:3A:231:THR:O	5:3A:332:MET:C	2.05	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:841:VAL:O	8:6A:9:LEU:O	1.80	1.00
2:IB:98:GLY:HA2	1:IC:254:GLU:HG3	1.42	1.00
2:JD:177:ASP:OD1	1:JE:353:VAL:HG11	1.61	1.00
2:JD:178:THR:HG23	1:JE:258:ASN:HD21	1.26	1.00
2:KF:55:THR:HG21	2:LF:363:MET:CE	1.92	1.00
6:4D:244:GLU:C	6:4D:247:LYS:HG2	1.86	1.00
2:AD:98:GLY:HA2	1:AE:254:GLU:HG3	1.41	1.00
2:BD:177:ASP:OD1	1:BE:353:VAL:HG11	1.60	1.00
1:FE:422:ARG:NE	7:5B:1170:THR:HB	1.76	1.00
1:LA:221:ARG:NH1	2:LB:324:LYS:N	2.10	1.00
7:5A:1381:ILE:HD12	7:5A:1381:ILE:H	1.26	1.00
2:EB:125:GLU:HA	7:5C:903:PHE:CD2	1.96	1.00
1:HC:101:ASN:HD21	2:HD:252:LYS:CD	1.58	1.00
1:IC:402:ARG:HH21	7:5A:1417:GLN:HG2	1.23	1.00
2:LB:224:ASP:N	6:4A:219:ASN:CG	2.19	1.00
1:LE:89:PRO:CG	1:ME:280:LYS:CD	2.38	1.00
5:3B:231:THR:O	5:3B:332:MET:C	2.05	1.00
7:5B:1381:ILE:HD12	7:5B:1381:ILE:H	1.26	1.00
7:5C:1381:ILE:H	7:5C:1381:ILE:HD12	1.26	1.00
2:AB:55:THR:HG23	2:BB:283:ALA:HA	1.44	0.99
2:DB:178:THR:HG23	1:DC:258:ASN:HD21	1.25	0.99
1:EA:430:LYS:CE	7:5C:834:ASN:ND2	1.91	0.99
2:EB:177:ASP:CG	1:EC:353:VAL:HG11	1.86	0.99
2:HB:177:ASP:OD1	1:HC:353:VAL:HG11	1.59	0.99
2:LB:331:LEU:CG	4:2C:42:PHE:CE1	2.45	0.99
2:LF:296:ALA:HB2	4:2B:149:ILE:HG21	1.40	0.99
6:4B:244:GLU:C	6:4B:247:LYS:HG2	1.86	0.99
7:5A:1284:PHE:HZ	9:7A:12:GLU:HB2	1.10	0.99
7:5C:842:LEU:HD22	7:5C:842:LEU:H	1.26	0.99
1:BA:398:MET:SD	2:BB:345:ILE:HG13	2.02	0.99
2:DB:397:TRP:CG	1:DC:256:GLN:NE2	1.98	0.99
1:IA:279:GLU:OE2	10:8V:22:UNK:O	1.80	0.99
1:KC:62:VAL:CG2	1:LC:285:GLN:HB3	1.91	0.99
1:LC:60:LYS:CD	6:4A:101:ARG:HH22	1.74	0.99
2:LD:55:THR:CG2	2:MD:283:ALA:CB	2.36	0.99
9:7C:7:LEU:HD23	9:7D:27:GLY:HA2	1.43	0.99
2:KF:273:LEU:CA	6:4D:268:LEU:HD23	1.88	0.99
1:MC:372:MET:HE2	6:4A:96:VAL:N	1.76	0.99
1:GE:409:VAL:HG21	5:3A:383:GLU:OE1	1.60	0.99
2:LD:83:GLN:O	2:MD:281:TYR:OH	1.79	0.99
1:LE:178:SER:OG	2:LF:347:ASN:HB3	1.61	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LF:231:ALA:HB2	6:4D:226:ILE:HD11	1.43	0.99
6:4A:244:GLU:C	6:4A:247:LYS:HG2	1.86	0.99
2:AB:55:THR:CG2	2:BB:283:ALA:HA	1.92	0.99
2:FD:55:THR:CG2	2:GD:284:LEU:N	2.24	0.99
1:GC:60:LYS:HZ2	1:HC:283:HIS:CG	1.78	0.99
2:LB:231:ALA:HB2	6:4A:226:ILE:HD11	1.42	0.99
1:LC:89:PRO:CD	1:MC:280:LYS:HZ2	1.60	0.99
7:5C:1475:PHE:HE2	7:5C:1565:GLU:CD	1.70	0.99
9:7A:7:LEU:HD23	9:7B:27:GLY:HA2	1.43	0.99
1:DA:400:ALA:O	7:5C:775:PRO:CB	2.09	0.99
1:EE:393:HIS:CE1	7:5B:814:LYS:HG3	1.95	0.99
2:FD:331:LEU:CD2	7:5A:915:PHE:CZ	2.45	0.99
2:GB:55:THR:CB	2:HB:283:ALA:HA	1.92	0.99
2:IB:397:TRP:CG	1:IC:256:GLN:HE22	1.38	0.99
2:KB:82:GLY:O	2:LB:281:TYR:HE1	1.42	0.99
1:KC:79:ARG:CB	1:LC:280:LYS:NZ	0.84	0.99
1:KC:87:PHE:O	1:LC:283:HIS:O	1.80	0.99
2:LB:306:ARG:NE	4:2C:149:ILE:HG21	1.77	0.99
7:5A:839:GLU:OE2	8:6A:11:PRO:HG3	1.61	0.99
1:AA:398:MET:SD	2:AB:345:ILE:HG13	2.03	0.99
1:AC:398:MET:SD	2:AD:345:ILE:HG13	2.03	0.99
2:GB:98:GLY:HA2	1:GC:254:GLU:HG3	1.42	0.99
2:JB:177:ASP:OD2	1:JC:353:VAL:HG13	1.63	0.99
2:KB:276:ARG:NE	6:4A:265:TYR:HB2	1.78	0.99
1:MC:398:MET:SD	2:MD:345:ILE:HG13	2.02	0.99
6:4C:244:GLU:C	6:4C:247:LYS:HG2	1.86	0.99
7:5A:1475:PHE:HE2	7:5A:1565:GLU:CD	1.70	0.99
7:5C:1355:GLN:O	7:5C:1358:LYS:CG	2.10	0.99
2:AF:223:GLY:CA	6:4A:131:VAL:HB	1.92	0.99
1:GC:398:MET:SD	2:GD:345:ILE:HG13	2.03	0.99
2:GF:86:ARG:NH2	2:HF:281:TYR:CG	2.07	0.99
7:5A:1533:GLU:HG2	7:5A:1604:ALA:HB1	1.45	0.99
7:5B:1533:GLU:HG2	7:5B:1604:ALA:HB1	1.45	0.99
7:5C:1552:LYS:HZ3	7:5C:1563:SER:CB	1.56	0.99
2:AD:40:SER:CB	6:4C:152:PHE:CD2	2.45	0.99
2:GB:86:ARG:NH2	2:HB:281:TYR:CE2	2.17	0.99
2:GB:177:ASP:OD2	1:GC:353:VAL:HG13	1.63	0.99
2:HB:178:THR:HG23	1:HC:258:ASN:HD21	1.28	0.99
2:KF:86:ARG:HH12	2:LF:283:ALA:HB2	1.26	0.99
2:KF:86:ARG:NH1	2:LF:283:ALA:N	2.10	0.99
1:ME:11:GLN:OE1	2:MF:245:GLN:O	1.79	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1475:PHE:HE2	7:5B:1565:GLU:CD	1.70	0.99
7:5B:1574:ILE:O	7:5B:1577:LYS:O	1.80	0.99
2:AB:177:ASP:OD2	1:AC:353:VAL:HG13	1.63	0.99
1:AE:283:HIS:HB3	2:MB:86:ARG:NH1	1.77	0.99
2:ED:178:THR:HG23	1:EE:258:ASN:HD21	1.23	0.99
2:EF:55:THR:CG2	2:FF:283:ALA:HA	1.93	0.99
2:GB:55:THR:N	2:HB:283:ALA:CB	2.25	0.99
1:GC:56:THR:O	1:HC:285:GLN:HB3	1.63	0.99
1:HA:398:MET:SD	2:HB:345:ILE:HG13	2.03	0.99
1:JA:398:MET:SD	2:JB:345:ILE:HG13	2.03	0.99
1:KA:398:MET:SD	2:KB:345:ILE:HG13	2.03	0.99
1:MC:282:TYR:HD2	6:4A:104:ARG:HD3	1.14	0.99
7:5A:1487:ASN:CG	7:5A:1568:LYS:CE	2.35	0.99
7:5B:1487:ASN:CG	7:5B:1568:LYS:CE	2.35	0.99
7:5C:1533:GLU:HG2	7:5C:1604:ALA:HB1	1.45	0.99
1:AE:285:GLN:CA	2:MB:55:THR:HG23	1.92	0.98
1:FE:222:PRO:CG	2:FF:324:LYS:HD3	1.91	0.98
2:JB:178:THR:HG23	1:JC:258:ASN:HD21	1.27	0.98
2:KF:54:ALA:HB1	2:LF:285:THR:HG23	1.44	0.98
2:LB:77:ARG:HH12	6:4A:204:ARG:NH2	1.59	0.98
6:4A:244:GLU:CG	6:4A:284:LEU:CD1	2.35	0.98
7:5A:1355:GLN:O	7:5A:1358:LYS:CG	2.10	0.98
7:5B:1126:PRO:HD2	8:6B:246:TYR:OH	1.62	0.98
7:5B:1355:GLN:O	7:5B:1358:LYS:CG	2.10	0.98
7:5C:1487:ASN:CG	7:5C:1568:LYS:CE	2.35	0.98
1:AC:101:ASN:HD21	2:AD:252:LYS:CD	1.58	0.98
1:DC:398:MET:SD	2:DD:345:ILE:HG13	2.03	0.98
1:GA:398:MET:SD	2:GB:345:ILE:HG13	2.03	0.98
2:HD:177:ASP:OD1	1:HE:353:VAL:HG11	1.61	0.98
1:JA:89:PRO:CG	1:KA:280:LYS:CG	2.34	0.98
2:JB:98:GLY:HA2	1:JC:254:GLU:HG3	1.42	0.98
2:JD:98:GLY:HA2	1:JE:254:GLU:HG3	1.41	0.98
2:KD:125:GLU:CD	2:LD:332:ASN:ND2	2.20	0.98
1:LE:222:PRO:CG	2:LF:324:LYS:CD	2.41	0.98
6:4C:244:GLU:CG	6:4C:284:LEU:CD1	2.35	0.98
7:5A:1574:ILE:O	7:5A:1577:LYS:O	1.80	0.98
2:GD:177:ASP:OD2	1:GE:353:VAL:HG13	1.64	0.98
2:GD:397:TRP:CG	1:GE:256:GLN:HE22	1.35	0.98
1:HC:398:MET:SD	2:HD:345:ILE:HG13	2.03	0.98
2:IF:86:ARG:HA	2:JF:281:TYR:CZ	1.97	0.98
1:JC:398:MET:SD	2:JD:345:ILE:HG13	2.03	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JD:177:ASP:OD2	1:JE:353:VAL:HG13	1.64	0.98
2:KB:87:PRO:CD	2:LB:282:ARG:HG3	1.94	0.98
2:LB:178:THR:HG23	1:LC:258:ASN:HD21	1.24	0.98
2:LD:177:ASP:OD1	1:LE:353:VAL:CG1	2.11	0.98
9:7A:11:TYR:HE1	9:7B:26:LEU:HB3	0.93	0.98
2:DD:177:ASP:OD1	1:DE:353:VAL:HG11	1.63	0.98
1:FE:211:ASP:OD1	7:5B:913:ASN:O	1.81	0.98
2:KD:273:LEU:CG	6:4B:268:LEU:HD21	1.88	0.98
1:LA:407:TRP:CE3	2:LB:255:VAL:HG13	1.97	0.98
2:LB:177:ASP:OD1	1:LC:353:VAL:HG11	1.61	0.98
2:LB:296:ALA:HB2	4:2C:149:ILE:CG2	1.58	0.98
1:LE:60:LYS:HD2	6:4B:101:ARG:CZ	1.81	0.98
5:3C:231:THR:O	5:3C:335:LYS:HB2	1.63	0.98
2:AD:178:THR:HG23	1:AE:258:ASN:HD21	1.26	0.98
2:BB:178:THR:HG23	1:BC:258:ASN:HD21	1.23	0.98
1:DC:402:ARG:NE	7:5A:777:ALA:HB2	1.76	0.98
2:FD:178:THR:HG23	1:FE:258:ASN:HD21	1.25	0.98
2:GB:397:TRP:CG	1:GC:256:GLN:HE22	1.38	0.98
1:IC:398:MET:SD	2:ID:345:ILE:HG13	2.03	0.98
2:JB:86:ARG:CZ	2:KB:280:GLN:HB2	1.93	0.98
1:JC:89:PRO:CG	1:KC:280:LYS:HA	1.92	0.98
1:JE:279:GLU:OE2	10:9A:22:UNK:O	1.81	0.98
1:KC:398:MET:SD	2:KD:345:ILE:HG13	2.03	0.98
2:KF:87:PRO:HG2	2:LF:282:ARG:CG	1.93	0.98
1:LC:101:ASN:ND2	2:LD:252:LYS:CD	2.26	0.98
1:LC:101:ASN:HD21	2:LD:252:LYS:CD	1.76	0.98
2:LF:83:GLN:O	2:MF:281:TYR:OH	1.80	0.98
6:4B:244:GLU:CG	6:4B:284:LEU:CD1	2.35	0.98
2:AD:177:ASP:OD2	1:AE:353:VAL:HG13	1.64	0.98
2:DD:54:ALA:HA	2:ED:283:ALA:HB2	1.46	0.98
1:EE:370:LYS:HZ1	10:8L:17:UNK:CB	1.72	0.98
1:HE:159:VAL:CG2	5:3A:209:ARG:CZ	2.41	0.98
2:KF:88:ASP:OD1	2:LF:291:GLN:NE2	1.96	0.98
1:MA:398:MET:SD	2:MB:345:ILE:HG13	2.03	0.98
1:MC:283:HIS:CD2	6:4A:101:ARG:NH2	2.31	0.98
7:5C:1574:ILE:O	7:5C:1577:LYS:O	1.80	0.98
1:AE:398:MET:SD	2:AF:345:ILE:HG13	2.04	0.98
1:EA:396:ASP:HB2	7:5C:817:LEU:HD21	1.36	0.98
1:FC:211:ASP:OD1	7:5A:913:ASN:O	1.81	0.98
2:FF:428:ALA:CA	7:5B:1080:PHE:CE1	2.39	0.98
1:GC:402:ARG:CD	5:3C:381:ASN:ND2	2.27	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GD:98:GLY:HA2	1:GE:254:GLU:HG3	1.41	0.98
2:IB:177:ASP:OD2	1:IC:353:VAL:HG13	1.63	0.98
2:JB:86:ARG:NE	2:KB:281:TYR:CD2	2.32	0.98
2:KB:86:ARG:HH11	2:LB:283:ALA:HB3	1.20	0.98
2:KD:86:ARG:HG2	2:LD:288:GLU:OE2	1.62	0.98
2:LD:340:TYR:CD1	4:2A:147:PHE:CB	2.46	0.98
7:5B:1548:VAL:CB	7:5B:1566:GLU:HA	1.93	0.98
2:HB:177:ASP:OD2	1:HC:353:VAL:HG13	1.63	0.98
2:IB:177:ASP:OD2	1:IC:248:LEU:CD2	2.12	0.98
1:JE:398:MET:SD	2:JF:345:ILE:HG13	2.04	0.98
2:KB:177:ASP:OD2	1:KC:248:LEU:CD2	2.12	0.98
2:KB:397:TRP:CG	1:KC:256:GLN:HE22	1.38	0.98
2:KD:397:TRP:CG	1:KE:256:GLN:HE22	1.34	0.98
2:KF:125:GLU:CG	2:LF:336:LYS:CE	2.39	0.98
1:MA:282:TYR:HD2	6:4C:104:ARG:CD	1.76	0.98
5:3A:231:THR:O	5:3A:335:LYS:HB2	1.63	0.98
7:5A:1548:VAL:CB	7:5A:1566:GLU:HA	1.93	0.98
7:5C:1152:GLU:OE2	8:6C:66:ARG:NH2	1.96	0.98
2:AF:224:ASP:OD1	6:4A:131:VAL:C	2.07	0.98
2:DB:177:ASP:OD1	1:DC:353:VAL:HG11	1.62	0.98
2:FF:55:THR:HG21	2:GF:284:LEU:H	1.27	0.98
2:GB:177:ASP:OD2	1:GC:248:LEU:CD2	2.12	0.98
1:HC:159:VAL:CG2	5:3C:209:ARG:CZ	2.41	0.98
1:HE:398:MET:SD	2:HF:345:ILE:HG13	2.04	0.98
1:IC:434:GLU:OE1	5:3C:61:SER:CB	2.12	0.98
1:KA:85:GLN:NE2	1:LA:282:TYR:CB	2.25	0.98
1:LC:89:PRO:CD	1:MC:280:LYS:HZ1	1.75	0.98
1:ME:283:HIS:CD2	6:4B:101:ARG:NH2	2.31	0.98
6:4D:244:GLU:CG	6:4D:284:LEU:CD1	2.35	0.98
2:ED:177:ASP:CG	1:EE:353:VAL:HG11	1.87	0.98
1:GC:89:PRO:HD3	1:HC:280:LYS:HZ2	0.83	0.98
1:GE:398:MET:SD	2:GF:345:ILE:HG13	2.04	0.98
2:HB:177:ASP:OD2	1:HC:248:LEU:CD2	2.12	0.98
2:HD:177:ASP:OD2	1:HE:353:VAL:HG13	1.64	0.98
2:JB:177:ASP:OD2	1:JC:248:LEU:CD2	2.12	0.98
2:LD:231:ALA:HB2	6:4B:226:ILE:HD11	1.41	0.98
7:5C:1548:VAL:CB	7:5C:1566:GLU:HA	1.93	0.98
2:FD:177:ASP:CG	1:FE:353:VAL:HG11	1.81	0.97
1:KE:398:MET:SD	2:KF:345:ILE:HG13	2.04	0.97
1:LC:176:GLN:NE2	4:2A:42:PHE:CB	2.26	0.97
1:EE:370:LYS:HZ3	10:8L:17:UNK:CB	1.58	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:11:GLN:OE1	2:FB:245:GLN:O	1.82	0.97
2:GD:178:THR:HG23	1:GE:258:ASN:HD21	1.26	0.97
2:JF:86:ARG:NH2	2:KF:280:GLN:HB3	1.66	0.97
6:4A:139:ASP:OD2	6:4A:140:PRO:HD2	1.64	0.97
7:5B:1105:TYR:HB3	7:5B:1166:LEU:H	1.24	0.97
9:7C:42:LEU:HD12	9:7D:39:GLY:HA2	1.45	0.97
2:CB:86:ARG:CA	2:DB:281:TYR:CZ	2.30	0.97
2:DF:85:PHE:C	2:EF:281:TYR:OH	2.07	0.97
1:IA:398:MET:SD	2:IB:345:ILE:HG13	2.03	0.97
2:IB:86:ARG:HA	2:JB:281:TYR:CZ	1.99	0.97
1:LC:178:SER:OG	2:LD:347:ASN:HB3	1.63	0.97
5:3B:231:THR:O	5:3B:335:LYS:HB2	1.63	0.97
6:4B:139:ASP:OD2	6:4B:140:PRO:HD2	1.64	0.97
6:4D:151:ARG:HH11	6:4D:151:ARG:HG2	1.28	0.97
7:5A:1524:PHE:CD1	7:5A:1567:PHE:CZ	2.52	0.97
7:5B:1524:PHE:CD1	7:5B:1567:PHE:CZ	2.52	0.97
2:AB:55:THR:HG23	2:BB:283:ALA:CA	1.95	0.97
2:AB:177:ASP:OD2	1:AC:248:LEU:CD2	2.12	0.97
1:FA:89:PRO:HD3	1:GA:280:LYS:HD2	1.24	0.97
2:FB:55:THR:HG21	2:GB:284:LEU:H	0.83	0.97
2:FB:177:ASP:O	1:FC:352:LYS:HD2	1.65	0.97
1:FC:89:PRO:N	1:GC:280:LYS:NZ	2.12	0.97
2:KB:177:ASP:OD2	1:KC:353:VAL:HG13	1.63	0.97
2:KD:86:ARG:HH12	2:LD:283:ALA:HB2	1.27	0.97
6:4C:139:ASP:OD2	6:4C:140:PRO:HD2	1.64	0.97
6:4D:139:ASP:OD2	6:4D:140:PRO:HD2	1.64	0.97
7:5C:1524:PHE:CD1	7:5C:1567:PHE:CZ	2.52	0.97
9:7C:7:LEU:HD21	9:7D:27:GLY:CA	1.89	0.97
1:DE:398:MET:SD	2:DF:345:ILE:HG13	2.05	0.97
1:HC:420:GLU:OE1	5:3C:215:TYR:CZ	2.17	0.97
1:IA:402:ARG:NH2	7:5C:1418:GLN:N	2.11	0.97
1:IE:398:MET:SD	2:IF:345:ILE:HG13	2.04	0.97
2:IF:85:PHE:O	2:JF:281:TYR:OH	1.81	0.97
1:KE:372:MET:CB	6:4B:299:TYR:CE1	2.45	0.97
2:KF:273:LEU:CG	6:4D:268:LEU:HD21	1.94	0.97
1:LE:89:PRO:CD	1:ME:280:LYS:HZ2	1.63	0.97
2:MD:106:TYR:OH	3:1B:32:ARG:NH1	1.94	0.97
7:5B:1544:ILE:CD1	7:5B:1574:ILE:HG13	1.92	0.97
7:5C:1548:VAL:HG11	7:5C:1566:GLU:CA	1.81	0.97
1:AE:342:GLN:NE2	3:1A:55:HIS:CG	2.26	0.97
2:ID:177:ASP:OD2	1:IE:353:VAL:HG13	1.64	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2B:12:LEU:HD23	4:2B:20:LYS:HB2	1.43	0.97
7:5A:1544:ILE:CD1	7:5A:1574:ILE:HG13	1.93	0.97
7:5C:1091:LYS:O	7:5C:1095:GLU:HG2	1.65	0.97
1:FC:422:ARG:NE	7:5A:1170:THR:HB	1.78	0.97
2:ID:177:ASP:OD2	1:IE:248:LEU:CD2	2.13	0.97
1:IE:429:GLU:OE1	5:3A:307:LYS:NZ	1.97	0.97
6:4B:151:ARG:HH11	6:4B:151:ARG:HG2	1.28	0.97
7:5A:1091:LYS:O	7:5A:1095:GLU:HG2	1.65	0.97
7:5A:1105:TYR:HB3	7:5A:1166:LEU:H	1.24	0.97
2:AF:55:THR:HG23	2:BF:283:ALA:CB	1.94	0.97
2:BB:177:ASP:OD1	1:BC:353:VAL:HG11	1.61	0.97
1:DA:400:ALA:O	7:5C:775:PRO:HB2	1.62	0.97
1:EE:430:LYS:CE	7:5B:834:ASN:ND2	2.12	0.97
1:FA:423:GLU:OE2	7:5C:1256:ARG:CZ	2.12	0.97
1:JC:101:ASN:HD21	2:JD:252:LYS:CD	1.58	0.97
1:KE:359:PRO:CB	6:4B:299:TYR:CE2	2.48	0.97
7:5C:1544:ILE:CD1	7:5C:1574:ILE:HG13	1.93	0.97
2:AB:178:THR:HG23	1:AC:258:ASN:HD21	1.27	0.97
2:EB:98:GLY:HA2	1:EC:254:GLU:HG3	1.47	0.97
2:ED:98:GLY:HA2	1:EE:254:GLU:HG3	1.47	0.97
2:GD:55:THR:H	2:HD:283:ALA:CB	1.68	0.97
2:GD:177:ASP:OD2	1:GE:248:LEU:CD2	2.13	0.97
2:JD:177:ASP:OD2	1:JE:248:LEU:CD2	2.13	0.97
2:KD:177:ASP:OD2	1:KE:248:LEU:CD2	2.13	0.97
7:5B:1091:LYS:O	7:5B:1095:GLU:HG2	1.65	0.97
9:7E:11:TYR:HD1	9:7F:26:LEU:HD23	1.22	0.97
2:AD:177:ASP:OD2	1:AE:248:LEU:CD2	2.13	0.97
1:FE:402:ARG:NH1	7:5B:1262:GLU:OE2	1.98	0.97
1:HA:101:ASN:HD21	2:HB:252:LYS:CD	1.62	0.97
2:JD:86:ARG:NH1	2:KD:280:GLN:HB3	1.79	0.97
2:KD:177:ASP:OD2	1:KE:353:VAL:HG13	1.64	0.97
2:KF:118:ASP:OD2	4:2B:148:ASN:ND2	1.96	0.97
2:LD:224:ASP:N	6:4B:219:ASN:CG	2.21	0.97
5:3A:231:THR:O	5:3A:332:MET:O	1.82	0.97
7:5A:1548:VAL:HG11	7:5A:1566:GLU:CA	1.81	0.97
1:BC:398:MET:SD	2:BD:345:ILE:HG13	2.05	0.96
2:CD:177:ASP:OD1	1:CE:353:VAL:HG11	1.65	0.96
2:DD:397:TRP:CG	1:DE:256:GLN:NE2	1.99	0.96
2:FB:177:ASP:OD1	1:FC:353:VAL:CG1	2.09	0.96
1:LE:407:TRP:CE3	2:LF:255:VAL:HG13	1.99	0.96
2:MD:111:GLU:HG2	3:1B:62:SER:CA	1.95	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2A:172:ASP:HB2	4:2A:173:PRO:CD	1.95	0.96
5:3B:231:THR:O	5:3B:332:MET:O	1.82	0.96
6:4A:151:ARG:HH11	6:4A:151:ARG:HG2	1.28	0.96
7:5C:1105:TYR:HB3	7:5C:1166:LEU:H	1.24	0.96
7:5C:1548:VAL:N	7:5C:1569:GLU:CD	2.22	0.96
1:DA:62:VAL:HG21	1:EA:283:HIS:O	1.64	0.96
1:DE:62:VAL:HG21	1:EE:283:HIS:O	1.65	0.96
2:HD:177:ASP:OD2	1:HE:248:LEU:CD2	2.13	0.96
1:IC:282:TYR:CD2	10:8W:15:UNK:O	2.17	0.96
2:JD:397:TRP:CG	1:JE:256:GLN:HE22	1.35	0.96
1:KC:101:ASN:HD21	2:KD:252:LYS:CD	1.58	0.96
1:LA:101:ASN:HD21	2:LB:252:LYS:CD	1.78	0.96
5:3C:231:THR:O	5:3C:332:MET:O	1.82	0.96
6:4C:289:LYS:HA	6:4C:289:LYS:HE3	1.44	0.96
1:DC:62:VAL:HG21	1:EC:283:HIS:O	1.66	0.96
2:FB:55:THR:H	2:GB:283:ALA:CB	1.58	0.96
1:GC:402:ARG:HD2	5:3C:381:ASN:ND2	1.80	0.96
2:ID:85:PHE:O	2:JD:281:TYR:OH	1.82	0.96
1:LA:101:ASN:ND2	2:LB:252:LYS:CD	2.27	0.96
2:MB:397:TRP:CG	1:MC:256:GLN:HE22	1.50	0.96
2:MD:111:GLU:HG2	3:1B:62:SER:HA	1.43	0.96
1:ME:279:GLU:CB	6:4B:110:LYS:HE3	1.96	0.96
4:2B:172:ASP:HB2	4:2B:173:PRO:CD	1.95	0.96
7:5B:1548:VAL:N	7:5B:1569:GLU:CD	2.22	0.96
7:5C:1544:ILE:C	7:5C:1570:ALA:HA	1.75	0.96
9:7E:7:LEU:CD2	9:7F:27:GLY:HA2	1.94	0.96
2:BB:220:PRO:O	1:BC:324:VAL:CG1	2.14	0.96
2:CD:178:THR:HG23	1:CE:258:ASN:HD21	1.29	0.96
1:FC:56:THR:HA	1:GC:285:GLN:HB3	1.44	0.96
1:FC:89:PRO:CA	1:GC:280:LYS:HZ1	1.76	0.96
2:JB:397:TRP:CG	1:JC:256:GLN:HE22	1.38	0.96
2:JD:86:ARG:NH2	2:KD:280:GLN:HB3	1.79	0.96
2:LD:55:THR:N	2:MD:283:ALA:CB	2.27	0.96
1:LE:89:PRO:CG	1:ME:280:LYS:CE	2.42	0.96
2:MB:106:TYR:OH	3:1A:32:ARG:NH1	1.97	0.96
4:2A:12:LEU:HD23	4:2A:20:LYS:HB2	1.43	0.96
4:2C:172:ASP:HB2	4:2C:173:PRO:CD	1.95	0.96
7:5A:1548:VAL:N	7:5A:1569:GLU:CD	2.22	0.96
1:AE:285:GLN:HA	2:MB:55:THR:HG23	0.96	0.96
1:AE:308:ARG:O	3:1A:56:ASN:OD1	1.82	0.96
2:EB:220:PRO:O	1:EC:324:VAL:HG11	1.63	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:177:ASP:OD2	1:FC:353:VAL:CG1	2.12	0.96
2:KD:86:ARG:HH12	2:LD:283:ALA:CA	1.71	0.96
7:5B:1125:LEU:HD11	8:6B:245:GLN:OE1	1.66	0.96
7:5B:1548:VAL:HG11	7:5B:1566:GLU:CA	1.81	0.96
2:AF:40:SER:CB	6:4A:152:PHE:HD2	1.74	0.96
2:LF:274:THR:O	6:4D:228:LEU:HD23	1.64	0.96
7:5B:839:GLU:CG	8:6B:107:PRO:O	2.12	0.96
7:5B:1265:ALA:O	7:5B:1269:ASP:OD1	1.82	0.96
7:5C:1355:GLN:HA	7:5C:1358:LYS:CG	1.92	0.96
9:7A:42:LEU:HD12	9:7B:39:GLY:HA2	1.45	0.96
2:KF:54:ALA:HB2	2:LF:285:THR:HG21	1.46	0.96
4:2C:12:LEU:HD23	4:2C:20:LYS:HB2	1.43	0.96
6:4C:151:ARG:HH11	6:4C:151:ARG:HG2	1.28	0.96
2:AD:40:SER:CB	6:4C:152:PHE:HD2	1.79	0.96
2:ED:220:PRO:O	1:EE:324:VAL:HG11	1.64	0.96
2:GB:178:THR:HG23	1:GC:258:ASN:HD21	1.28	0.96
1:GE:56:THR:O	1:HE:285:GLN:CA	2.14	0.96
2:HD:98:GLY:C	1:HE:254:GLU:HG2	1.90	0.96
2:LD:306:ARG:NH1	4:2A:151:VAL:HG21	1.79	0.96
6:4A:289:LYS:HA	6:4A:289:LYS:HE3	1.44	0.96
7:5A:1355:GLN:HA	7:5A:1358:LYS:CG	1.91	0.96
2:HB:177:ASP:OD2	1:HC:353:VAL:CG1	2.14	0.96
2:HD:177:ASP:OD2	1:HE:353:VAL:CG1	2.14	0.96
1:JA:87:PHE:O	1:KA:283:HIS:HE1	1.48	0.96
7:5A:1246:LEU:N	9:7B:12:GLU:OE2	1.94	0.96
7:5A:1265:ALA:O	7:5A:1269:ASP:OD1	1.82	0.96
7:5C:1152:GLU:OE1	8:6C:66:ARG:CZ	2.14	0.96
9:7A:7:LEU:HD21	9:7B:27:GLY:CA	1.89	0.96
9:7C:11:TYR:HE1	9:7D:26:LEU:HB3	0.93	0.96
2:CB:220:PRO:HD2	1:CC:326:LYS:HG2	1.46	0.96
2:ED:397:TRP:CG	1:EE:256:GLN:NE2	1.95	0.96
2:FB:98:GLY:HA2	1:FC:254:GLU:HG2	0.97	0.96
2:FB:177:ASP:OD2	1:FC:353:VAL:HG13	1.63	0.96
1:JC:370:LYS:HE2	10:8Z:17:UNK:CB	1.94	0.96
2:KF:54:ALA:HB1	2:LF:285:THR:HG22	1.46	0.96
1:LE:101:ASN:HD21	2:LF:252:LYS:CD	1.79	0.96
1:CC:60:LYS:NZ	1:DC:283:HIS:CD2	2.33	0.95
2:ED:125:GLU:O	7:5A:903:PHE:CE2	2.19	0.95
2:FF:55:THR:HG23	2:GF:283:ALA:HA	0.96	0.95
2:LD:274:THR:O	6:4B:228:LEU:HD23	1.66	0.95
2:MB:111:GLU:HG2	3:1A:62:SER:CA	1.95	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MD:110:ALA:O	3:1B:61:HIS:CB	2.13	0.95
6:4D:252:VAL:HG13	6:4D:292:VAL:HG23	1.45	0.95
7:5C:1265:ALA:O	7:5C:1269:ASP:OD1	1.82	0.95
1:CC:398:MET:SD	2:CD:345:ILE:HG13	2.06	0.95
1:GA:60:LYS:HZ3	1:HA:283:HIS:CG	1.84	0.95
2:GB:177:ASP:OD2	1:GC:353:VAL:CG1	2.14	0.95
2:GD:177:ASP:OD2	1:GE:353:VAL:CG1	2.14	0.95
1:JA:282:TYR:OH	10:8Y:17:UNK:CB	2.14	0.95
2:JB:177:ASP:OD2	1:JC:353:VAL:CG1	2.14	0.95
2:JD:88:ASP:CB	2:KD:278:SER:OG	2.13	0.95
2:JD:177:ASP:OD2	1:JE:353:VAL:CG1	2.14	0.95
1:JE:124:LYS:HD2	1:KE:284:GLU:OE1	1.66	0.95
1:LA:60:LYS:HD2	6:4C:101:ARG:CZ	1.84	0.95
1:LC:407:TRP:CE3	2:LD:255:VAL:HG13	1.99	0.95
1:LE:101:ASN:ND2	2:LF:252:LYS:CD	2.29	0.95
6:4B:289:LYS:HA	6:4B:289:LYS:HE3	1.44	0.95
7:5A:1544:ILE:C	7:5A:1570:ALA:HA	1.76	0.95
1:AA:101:ASN:HD21	2:AB:252:LYS:CD	1.62	0.95
2:DD:220:PRO:HD2	1:DE:326:LYS:HG2	1.46	0.95
1:EE:396:ASP:OD1	7:5B:821:LEU:HD11	1.65	0.95
1:GE:402:ARG:CD	5:3A:381:ASN:ND2	2.30	0.95
1:IA:282:TYR:CE1	10:8V:18:UNK:CB	2.33	0.95
1:LC:222:PRO:CG	2:LD:324:LYS:CD	2.43	0.95
6:4B:252:VAL:HG13	6:4B:292:VAL:HG23	1.45	0.95
7:5A:1246:LEU:CA	9:7B:12:GLU:OE2	2.14	0.95
7:5B:1355:GLN:HA	7:5B:1358:LYS:CG	1.92	0.95
2:CB:87:PRO:CD	2:DB:281:TYR:CE2	2.50	0.95
1:DA:402:ARG:HH22	7:5C:782:LEU:HD11	0.78	0.95
1:HA:282:TYR:CE2	10:8S:19:UNK:N	2.34	0.95
1:IA:402:ARG:CZ	7:5C:1417:GLN:C	2.38	0.95
6:4C:252:VAL:HG13	6:4C:292:VAL:HG23	1.45	0.95
7:5A:841:VAL:CG2	8:6A:11:PRO:HA	1.95	0.95
7:5B:874:GLN:HB2	8:6B:59:LYS:HZ3	1.25	0.95
1:CA:398:MET:SD	2:CB:345:ILE:HG13	2.06	0.95
2:GD:98:GLY:C	1:GE:254:GLU:HG2	1.90	0.95
2:ID:178:THR:HG23	1:IE:258:ASN:HD21	1.26	0.95
2:JD:98:GLY:C	1:JE:254:GLU:HG2	1.90	0.95
1:KC:79:ARG:HB2	1:LC:280:LYS:HZ1	0.81	0.95
2:KD:125:GLU:CG	2:LD:336:LYS:CE	2.33	0.95
1:LA:222:PRO:CG	2:LB:324:LYS:CD	2.44	0.95
1:LE:176:GLN:O	2:LF:347:ASN:ND2	2.00	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4A:252:VAL:HG13	6:4A:292:VAL:HG23	1.45	0.95
6:4D:252:VAL:HG13	6:4D:292:VAL:CG2	1.96	0.95
2:AD:217:LEU:HD22	6:4C:132:LYS:CG	1.95	0.95
2:CB:177:ASP:OD1	1:CC:353:VAL:HG11	1.66	0.95
2:CD:87:PRO:CD	2:DD:281:TYR:CE2	2.50	0.95
1:GC:409:VAL:CG1	5:3C:383:GLU:CD	2.39	0.95
1:IE:389:SER:HB2	5:3A:307:LYS:HD3	0.97	0.95
1:LA:178:SER:OG	2:LB:347:ASN:HB3	1.66	0.95
2:LD:98:GLY:HA2	1:LE:254:GLU:HG2	1.48	0.95
2:LD:340:TYR:CG	4:2A:147:PHE:CB	2.50	0.95
1:MA:279:GLU:OE2	6:4C:106:ALA:HB3	1.66	0.95
1:MC:71:GLU:OE1	2:MD:247:ASN:ND2	1.98	0.95
2:MF:221:THR:HG21	6:4D:189:ARG:CZ	1.95	0.95
7:5C:874:GLN:HB2	8:6C:59:LYS:HZ1	0.85	0.95
2:BD:98:GLY:HA2	1:BE:254:GLU:HG3	1.48	0.95
2:EB:178:THR:HG23	1:EC:258:ASN:HD21	1.29	0.95
2:IB:177:ASP:OD2	1:IC:353:VAL:CG1	2.14	0.95
2:ID:98:GLY:C	1:IE:254:GLU:HG2	1.90	0.95
1:JA:89:PRO:HG2	1:KA:279:GLU:O	1.65	0.95
1:KC:85:GLN:CD	1:LC:282:TYR:HB2	1.91	0.95
2:KD:87:PRO:HG3	2:LD:282:ARG:HG3	0.97	0.95
2:LB:379:LYS:CA	4:2C:166:ILE:HD11	1.75	0.95
2:LD:296:ALA:HB3	4:2A:149:ILE:HG23	0.99	0.95
2:LD:379:LYS:HZ1	4:2A:166:ILE:H	0.99	0.95
2:MB:111:GLU:HG2	3:1A:62:SER:HA	1.46	0.95
6:4B:252:VAL:HG13	6:4B:292:VAL:CG2	1.96	0.95
6:4D:289:LYS:HA	6:4D:289:LYS:HE3	1.44	0.95
1:FC:60:LYS:CD	1:GC:283:HIS:CD2	2.42	0.95
1:FE:282:TYR:HE2	10:8O:18:UNK:CB	1.36	0.95
2:HB:98:GLY:C	1:HC:254:GLU:HG2	1.91	0.95
1:HC:159:VAL:CG2	5:3C:209:ARG:NH2	2.29	0.95
1:HE:101:ASN:HD21	2:HF:252:LYS:CD	1.64	0.95
1:HE:282:TYR:CE2	10:8U:15:UNK:O	2.18	0.95
2:ID:177:ASP:OD2	1:IE:353:VAL:CG1	2.14	0.95
1:KA:85:GLN:HE22	1:LA:282:TYR:CB	1.79	0.95
2:KD:178:THR:HG23	1:KE:258:ASN:HD21	1.26	0.95
2:KD:273:LEU:HA	6:4B:268:LEU:HD23	0.96	0.95
2:LB:331:LEU:HD22	4:2C:42:PHE:CE2	1.87	0.95
2:LF:379:LYS:HZ1	4:2B:166:ILE:H	1.11	0.95
6:4C:252:VAL:HG13	6:4C:292:VAL:CG2	1.96	0.95
7:5A:1490:LYS:HG3	7:5A:1494:LEU:CD2	1.96	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1490:LYS:HG3	7:5B:1494:LEU:CD2	1.96	0.95
7:5B:1544:ILE:C	7:5B:1570:ALA:HA	1.76	0.95
7:5C:1490:LYS:HG3	7:5C:1494:LEU:CD2	1.96	0.95
2:AD:98:GLY:C	1:AE:254:GLU:HG2	1.90	0.95
2:BB:177:ASP:OD2	1:BC:248:LEU:CD2	2.15	0.95
1:FA:402:ARG:HD3	7:5C:1259:TYR:CD2	2.02	0.95
2:IB:178:THR:HG23	1:IC:258:ASN:HD21	1.27	0.95
2:KD:98:GLY:C	1:KE:254:GLU:HG2	1.90	0.95
1:LE:222:PRO:HG2	2:LF:324:LYS:HB2	1.49	0.95
2:LF:379:LYS:NZ	4:2B:166:ILE:H	1.63	0.95
2:CF:86:ARG:CA	2:DF:281:TYR:HE1	1.65	0.95
1:EE:402:ARG:NE	7:5B:824:ARG:NH2	2.14	0.95
1:FA:402:ARG:NH1	7:5C:1262:GLU:OE2	2.00	0.95
2:JB:55:THR:HG22	2:KB:362:LYS:NZ	1.81	0.95
2:KB:124:ALA:O	4:2C:38:VAL:HG13	1.65	0.95
2:LB:223:GLY:C	6:4A:219:ASN:ND2	2.24	0.95
2:MD:177:ASP:OD1	1:ME:353:VAL:CG1	2.13	0.95
6:4A:252:VAL:HG13	6:4A:292:VAL:CG2	1.96	0.95
7:5A:1152:GLU:OE1	8:6A:66:ARG:CZ	2.14	0.95
7:5C:1490:LYS:HD2	7:5C:1494:LEU:HB2	1.45	0.95
1:DA:282:TYR:HE2	10:8G:18:UNK:CB	1.65	0.94
1:FE:419:SER:CB	7:5B:1256:ARG:CD	2.45	0.94
2:GB:98:GLY:C	1:GC:254:GLU:HG2	1.91	0.94
2:ID:424:GLN:HE22	7:5A:1413:GLN:CD	1.57	0.94
1:KA:88:HIS:CA	1:LA:284:GLU:HB3	1.69	0.94
1:MA:101:ASN:CG	2:MB:252:LYS:HD2	1.90	0.94
7:5B:1355:GLN:C	7:5B:1358:LYS:CG	2.40	0.94
2:HF:160:PRO:HB3	5:3A:330:ARG:HH21	1.31	0.94
2:KB:54:ALA:HB2	2:LB:285:THR:CG2	1.69	0.94
2:KB:177:ASP:OD2	1:KC:353:VAL:CG1	2.14	0.94
2:KD:177:ASP:OD2	1:KE:353:VAL:CG1	2.14	0.94
7:5A:1246:LEU:HG	9:7B:12:GLU:CD	1.91	0.94
7:5B:773:ARG:O	7:5B:775:PRO:HD2	1.62	0.94
9:7A:39:GLY:HA3	9:7B:43:LEU:HD21	1.49	0.94
2:BB:98:GLY:HA2	1:BC:254:GLU:HG3	1.48	0.94
1:DE:414:GLU:OE2	7:5B:789:LYS:CE	2.16	0.94
2:HD:160:PRO:HB3	5:3C:330:ARG:NH2	1.80	0.94
2:HD:397:TRP:CG	1:HE:256:GLN:HE22	1.34	0.94
2:JB:55:THR:CG2	2:KB:362:LYS:HZ1	1.54	0.94
1:LC:84:ARG:NH1	6:4A:108:LYS:HE2	1.78	0.94
1:LE:84:ARG:NH2	6:4B:108:LYS:O	1.88	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MB:110:ALA:O	3:1A:61:HIS:CB	2.15	0.94
7:5A:773:ARG:O	7:5A:775:PRO:HD2	1.62	0.94
7:5A:1530:ILE:HD13	7:5A:1571:MET:HE1	0.95	0.94
7:5B:1530:ILE:HD13	7:5B:1571:MET:HE1	0.95	0.94
2:KF:215:LEU:HD13	6:4D:267:ILE:CG2	1.98	0.94
2:MB:178:THR:HG23	1:MC:258:ASN:HD21	1.32	0.94
7:5A:1355:GLN:C	7:5A:1358:LYS:CG	2.40	0.94
7:5C:1126:PRO:HD2	8:6C:246:TYR:OH	1.67	0.94
7:5C:1490:LYS:CD	7:5C:1494:LEU:HD23	1.97	0.94
2:AB:98:GLY:C	1:AC:254:GLU:HG2	1.91	0.94
1:HE:159:VAL:CG2	5:3A:209:ARG:NH2	2.29	0.94
2:JB:98:GLY:C	1:JC:254:GLU:HG2	1.91	0.94
2:KF:221:THR:HG21	6:4D:261:SER:CA	1.88	0.94
2:LB:55:THR:OG1	2:MB:282:ARG:O	1.85	0.94
1:LC:221:ARG:NH1	2:LD:324:LYS:N	2.16	0.94
7:5A:1490:LYS:HD2	7:5A:1494:LEU:HB2	1.45	0.94
7:5C:773:ARG:O	7:5C:775:PRO:HD2	1.62	0.94
7:5C:1355:GLN:CA	7:5C:1358:LYS:CG	2.46	0.94
7:5C:1530:ILE:HD13	7:5C:1571:MET:HE1	0.95	0.94
2:BF:86:ARG:HA	2:CF:281:TYR:CZ	2.01	0.94
1:CE:398:MET:SD	2:CF:345:ILE:HG13	2.07	0.94
1:JC:89:PRO:HB2	1:KC:280:LYS:HG3	1.46	0.94
1:KC:62:VAL:HG22	1:LC:285:GLN:HB3	1.50	0.94
1:LC:176:GLN:O	2:LD:347:ASN:ND2	2.01	0.94
1:MA:283:HIS:NE2	6:4C:101:ARG:NH2	2.16	0.94
2:MD:178:THR:HG23	1:ME:258:ASN:HD21	1.29	0.94
7:5A:1490:LYS:CD	7:5A:1494:LEU:HD23	1.97	0.94
7:5C:1355:GLN:C	7:5C:1358:LYS:CG	2.40	0.94
9:7C:39:GLY:HA3	9:7D:43:LEU:CD2	1.98	0.94
1:CC:282:TYR:HE2	10:8E:18:UNK:CB	1.78	0.94
2:EB:54:ALA:CA	2:FB:283:ALA:HB2	1.97	0.94
2:IB:98:GLY:C	1:IC:254:GLU:HG2	1.91	0.94
1:IE:402:ARG:NH2	7:5B:1417:GLN:HG3	1.82	0.94
2:KB:87:PRO:HG3	2:LB:282:ARG:CG	1.76	0.94
2:KB:158:GLU:HA	4:2C:34:ASN:HB2	0.94	0.94
7:5A:1355:GLN:CA	7:5A:1358:LYS:CG	2.46	0.94
7:5C:874:GLN:CB	8:6C:59:LYS:HZ1	1.76	0.94
9:7C:11:TYR:HD1	9:7D:26:LEU:CD2	1.75	0.94
1:CE:60:LYS:HZ2	1:DE:283:HIS:CD2	1.86	0.94
1:DA:398:MET:SD	2:DB:345:ILE:HG13	2.08	0.94
2:DB:54:ALA:HA	2:EB:283:ALA:HB2	1.50	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GC:60:LYS:HD3	1:HC:283:HIS:CB	1.98	0.94
2:HB:397:TRP:CG	1:HC:256:GLN:HE22	1.38	0.94
1:HE:410:GLY:O	5:3A:329:ARG:NH2	1.99	0.94
2:HF:261:PRO:HB2	5:3A:337:ARG:HH22	1.30	0.94
1:IC:58:ALA:HB1	10:8Z:13:UNK:CA	1.73	0.94
2:KB:178:THR:HG23	1:KC:258:ASN:HD21	1.27	0.94
2:KB:273:LEU:CB	6:4A:268:LEU:HD21	1.98	0.94
1:LA:89:PRO:CG	1:MA:280:LYS:CE	2.45	0.94
2:LD:177:ASP:O	1:LE:352:LYS:CD	2.13	0.94
2:LF:413:SER:HB2	4:2B:171:VAL:HG21	1.46	0.94
7:5A:841:VAL:HG12	8:6A:9:LEU:HD23	1.48	0.94
7:5A:1243:ASP:CB	9:7B:8:ARG:HH12	1.79	0.94
7:5B:1490:LYS:HD2	7:5B:1494:LEU:HB2	1.45	0.94
9:7C:39:GLY:HA3	9:7D:43:LEU:HD21	1.49	0.94
9:7E:11:TYR:HE1	9:7F:26:LEU:CB	1.80	0.94
9:7E:30:ARG:HH12	9:7F:3:GLN:CA	1.80	0.94
1:AE:101:ASN:HD21	2:AF:252:LYS:CD	1.64	0.94
1:FC:71:GLU:OE1	2:FD:247:ASN:ND2	2.01	0.94
1:FE:398:MET:SD	2:FF:345:ILE:HG13	2.08	0.94
1:GA:89:PRO:HD3	1:HA:280:LYS:HZ2	1.31	0.94
1:HA:282:TYR:CE2	10:8S:15:UNK:O	2.20	0.94
1:JA:88:HIS:HE1	1:KA:280:LYS:O	1.49	0.94
1:JE:87:PHE:O	1:KE:283:HIS:HE1	1.35	0.94
7:5A:1284:PHE:CD1	9:7A:12:GLU:OE1	2.20	0.94
7:5B:1355:GLN:CA	7:5B:1358:LYS:CG	2.46	0.94
7:5B:1490:LYS:CD	7:5B:1494:LEU:HD23	1.97	0.94
7:5C:1548:VAL:HG11	7:5C:1565:GLU:C	1.92	0.94
2:FB:177:ASP:OD2	1:FC:248:LEU:CD2	2.15	0.94
1:FC:282:TYR:HE2	10:8N:18:UNK:CB	1.47	0.94
2:FD:220:PRO:O	1:FE:324:VAL:CG1	2.15	0.94
2:LD:296:ALA:HB2	4:2A:149:ILE:HG21	1.47	0.94
2:LF:296:ALA:CB	4:2B:149:ILE:HG21	1.94	0.94
9:7E:42:LEU:HD12	9:7F:39:GLY:HA2	1.48	0.94
2:BD:86:ARG:HA	2:CD:281:TYR:CZ	2.02	0.93
1:EC:282:TYR:HE2	10:8K:18:UNK:CB	1.68	0.93
1:FA:422:ARG:NE	7:5C:1170:THR:HB	1.83	0.93
1:IA:278:ALA:HB3	10:8V:21:UNK:C	1.98	0.93
2:KB:54:ALA:CB	2:LB:285:THR:HG21	1.64	0.93
2:KD:215:LEU:HD13	6:4B:267:ILE:HG22	0.95	0.93
7:5B:1089:PHE:CD1	7:5B:1101:LEU:CD2	2.51	0.93
9:7C:18:VAL:HG21	9:7D:35:ILE:HG21	1.49	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EC:430:LYS:HZ1	7:5A:834:ASN:CG	1.64	0.93
2:KB:98:GLY:C	1:KC:254:GLU:HG2	1.91	0.93
2:LB:340:TYR:CD1	4:2C:147:PHE:CA	2.44	0.93
7:5A:1089:PHE:CD1	7:5A:1101:LEU:CD2	2.51	0.93
7:5A:1548:VAL:HG11	7:5A:1565:GLU:C	1.92	0.93
7:5C:1552:LYS:CE	7:5C:1563:SER:HB2	1.98	0.93
9:7E:7:LEU:HD23	9:7F:30:ARG:HE	1.31	0.93
1:IA:279:GLU:CD	10:8V:22:UNK:CB	2.41	0.93
1:IE:402:ARG:CZ	7:5B:1417:GLN:HG3	1.99	0.93
2:JD:86:ARG:CZ	2:KD:280:GLN:C	2.41	0.93
1:LE:89:PRO:HG3	1:ME:280:LYS:HE3	1.47	0.93
7:5A:1552:LYS:CE	7:5A:1563:SER:HB2	1.98	0.93
7:5C:1089:PHE:CD1	7:5C:1101:LEU:CD2	2.51	0.93
9:7A:39:GLY:HA3	9:7B:43:LEU:CD2	1.97	0.93
2:CD:86:ARG:CA	2:DD:281:TYR:CZ	2.33	0.93
1:CE:282:TYR:HE2	10:8F:18:UNK:CB	1.67	0.93
1:FC:89:PRO:HD3	1:GC:280:LYS:NZ	1.53	0.93
2:GB:55:THR:H	2:HB:283:ALA:HB2	1.17	0.93
1:GC:89:PRO:CD	1:HC:280:LYS:HZ2	1.78	0.93
1:JA:101:ASN:HD21	2:JB:252:LYS:CD	1.62	0.93
2:LB:55:THR:H	2:MB:283:ALA:HB2	1.20	0.93
2:LF:55:THR:H	2:MF:283:ALA:HB2	1.17	0.93
2:MD:177:ASP:OD2	1:ME:248:LEU:CD2	2.16	0.93
7:5B:1548:VAL:HG11	7:5B:1565:GLU:C	1.92	0.93
2:AD:359:LYS:N	6:4C:151:ARG:HH22	1.42	0.93
2:KB:54:ALA:CA	2:LB:285:THR:HG22	1.98	0.93
7:5B:841:VAL:HG12	8:6B:9:LEU:HD23	1.51	0.93
7:5B:1245:GLY:HA3	9:7D:12:GLU:OE1	1.66	0.93
2:AB:177:ASP:OD2	1:AC:353:VAL:CG1	2.14	0.93
2:GB:412:GLU:OE2	7:5C:1323:MET:HE1	1.68	0.93
1:GC:56:THR:OG1	1:HC:284:GLU:HA	1.66	0.93
1:KA:101:ASN:HD21	2:KB:252:LYS:CD	1.61	0.93
2:MD:221:THR:HG21	6:4B:189:ARG:CZ	1.99	0.93
7:5B:1355:GLN:C	7:5B:1358:LYS:HG2	1.94	0.93
7:5B:1552:LYS:CE	7:5B:1563:SER:HB2	1.98	0.93
1:BA:101:ASN:HD21	2:BB:252:LYS:CD	1.66	0.93
1:DA:101:ASN:HD21	2:DB:252:LYS:CD	1.61	0.93
1:IC:278:ALA:HB3	10:8W:21:UNK:C	1.98	0.93
1:IC:402:ARG:HH22	7:5A:1418:GLN:CA	1.81	0.93
7:5A:1355:GLN:C	7:5A:1358:LYS:HG2	1.94	0.93
2:AD:177:ASP:OD2	1:AE:353:VAL:CG1	2.14	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JF:86:ARG:CZ	2:KF:280:GLN:C	2.31	0.93
1:LA:222:PRO:CD	2:LB:324:LYS:CD	2.43	0.93
1:MA:71:GLU:OE1	2:MB:247:ASN:ND2	2.01	0.93
7:5B:1490:LYS:HD2	7:5B:1494:LEU:CD2	1.99	0.93
7:5C:1355:GLN:C	7:5C:1358:LYS:HG2	1.94	0.93
1:EA:370:LYS:HZ3	10:8J:17:UNK:CB	1.64	0.93
1:IC:278:ALA:HB3	10:8W:21:UNK:CB	1.94	0.93
2:LB:55:THR:CG2	2:MB:283:ALA:CB	2.42	0.93
2:LD:55:THR:OG1	2:MD:282:ARG:O	1.85	0.93
2:LD:178:THR:HG23	1:LE:258:ASN:HD21	1.31	0.93
2:MD:111:GLU:HG2	3:1B:62:SER:CB	1.99	0.93
7:5A:1490:LYS:HD2	7:5A:1494:LEU:CD2	1.99	0.93
7:5B:1530:ILE:CD1	7:5B:1571:MET:CE	2.42	0.93
7:5C:1490:LYS:HD2	7:5C:1494:LEU:CD2	1.99	0.93
2:AF:359:LYS:N	6:4A:151:ARG:HH21	1.52	0.93
2:LF:224:ASP:H	6:4D:219:ASN:HD21	0.93	0.93
1:ME:279:GLU:CG	6:4B:110:LYS:HE3	1.99	0.93
7:5C:1548:VAL:HG13	7:5C:1565:GLU:OE1	1.68	0.93
9:7A:18:VAL:HG21	9:7B:35:ILE:HG21	1.49	0.93
1:CA:370:LYS:HZ1	10:8D:17:UNK:CB	1.76	0.92
2:FB:98:GLY:CA	1:FC:254:GLU:CG	2.26	0.92
2:JD:86:ARG:HH22	2:KD:280:GLN:CB	1.82	0.92
2:KF:86:ARG:NH1	2:LF:283:ALA:H	1.65	0.92
1:MC:279:GLU:CG	6:4A:110:LYS:HE3	1.98	0.92
1:MC:282:TYR:HD2	6:4A:104:ARG:CD	1.82	0.92
2:MD:177:ASP:OD2	1:ME:248:LEU:HD21	1.68	0.92
2:EF:157:GLU:CD	7:5B:935:LYS:HZ2	1.74	0.92
2:FD:177:ASP:OD2	1:FE:248:LEU:CD2	2.18	0.92
2:FF:55:THR:HG23	2:GF:283:ALA:CB	1.98	0.92
7:5A:1521:PHE:CE2	7:5A:1571:MET:HG2	2.03	0.92
7:5A:1530:ILE:CD1	7:5A:1571:MET:CE	2.42	0.92
7:5B:1246:LEU:N	9:7D:12:GLU:CD	2.27	0.92
7:5B:1487:ASN:OD1	7:5B:1568:LYS:CG	2.18	0.92
7:5B:1491:LEU:CD1	7:5B:1495:PHE:CE1	2.52	0.92
7:5B:1491:LEU:HD11	7:5B:1495:PHE:CD1	1.97	0.92
7:5C:1521:PHE:CE2	7:5C:1571:MET:HG2	2.03	0.92
9:7A:7:LEU:CD2	9:7B:27:GLY:C	2.36	0.92
1:BE:398:MET:SD	2:BF:345:ILE:HG13	2.09	0.92
1:GE:60:LYS:HD3	1:HE:283:HIS:CA	1.97	0.92
1:HC:282:TYR:CZ	10:8T:15:UNK:O	2.21	0.92
1:JE:101:ASN:HD21	2:JF:252:LYS:CD	1.64	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:79:ARG:CB	1:LC:280:LYS:HZ1	0.73	0.92
2:KF:227:HIS:HB3	6:4D:267:ILE:HD11	1.48	0.92
7:5A:1487:ASN:OD1	7:5A:1568:LYS:CG	2.17	0.92
7:5A:1491:LEU:CD1	7:5A:1495:PHE:CE1	2.52	0.92
7:5A:1549:THR:N	7:5A:1566:GLU:HG2	1.84	0.92
7:5B:1521:PHE:CE2	7:5B:1571:MET:HG2	2.03	0.92
7:5B:1549:THR:N	7:5B:1566:GLU:HG2	1.84	0.92
7:5C:1491:LEU:HD11	7:5C:1495:PHE:CD1	1.97	0.92
2:AD:276:ARG:NH1	6:4C:137:ASN:O	2.01	0.92
2:DB:220:PRO:HD2	1:DC:326:LYS:HE2	1.50	0.92
2:GD:412:GLU:OE2	7:5A:1323:MET:CE	2.17	0.92
2:HD:261:PRO:HB2	5:3C:337:ARG:HH22	1.31	0.92
1:JE:89:PRO:HB2	1:KE:280:LYS:HG3	1.48	0.92
2:KD:118:ASP:CG	4:2A:148:ASN:HD21	1.77	0.92
2:LB:274:THR:O	6:4A:228:LEU:HD23	1.70	0.92
7:5A:1491:LEU:HD11	7:5A:1495:PHE:CD1	1.97	0.92
7:5C:1487:ASN:OD1	7:5C:1568:LYS:CG	2.17	0.92
7:5C:1491:LEU:CD1	7:5C:1495:PHE:CE1	2.52	0.92
7:5C:1530:ILE:CD1	7:5C:1571:MET:CE	2.42	0.92
7:5C:1549:THR:N	7:5C:1566:GLU:HG2	1.84	0.92
2:EB:125:GLU:CB	7:5C:903:PHE:HE2	1.75	0.92
1:KE:101:ASN:HD21	2:KF:252:LYS:CD	1.64	0.92
1:LC:401:LYS:NZ	2:LD:344:TRP:CE2	2.36	0.92
7:5A:1548:VAL:HG13	7:5A:1565:GLU:OE1	1.68	0.92
7:5B:1545:TYR:N	7:5B:1570:ALA:HB2	1.84	0.92
7:5C:1246:LEU:CB	9:7F:12:GLU:OE2	2.16	0.92
2:DB:220:PRO:O	1:DC:324:VAL:HG11	1.69	0.92
1:FC:422:ARG:HE	7:5A:1170:THR:HB	1.29	0.92
2:KB:87:PRO:HG2	2:LB:282:ARG:CD	1.99	0.92
2:LB:379:LYS:HZ1	4:2C:166:ILE:H	1.10	0.92
7:5A:1077:ASN:OD1	7:5A:1083:THR:HG21	1.69	0.92
7:5C:1077:ASN:OD1	7:5C:1083:THR:HG21	1.70	0.92
2:AD:359:LYS:N	6:4C:151:ARG:HH21	1.47	0.92
2:CB:86:ARG:CA	2:DB:281:TYR:HE1	1.64	0.92
2:DD:220:PRO:O	1:DE:324:VAL:HG11	1.68	0.92
2:DF:86:ARG:HA	2:EF:281:TYR:CZ	2.04	0.92
1:FC:89:PRO:N	1:GC:280:LYS:HZ2	1.68	0.92
1:IC:101:ASN:HD21	2:ID:252:LYS:CD	1.58	0.92
2:KB:83:GLN:HE22	2:LB:281:TYR:HE2	0.95	0.92
2:LF:306:ARG:HH22	4:2B:151:VAL:HG23	1.25	0.92
1:MC:283:HIS:NE2	6:4A:101:ARG:NH2	2.18	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1545:TYR:N	7:5A:1570:ALA:HB2	1.84	0.92
7:5B:839:GLU:OE2	8:6B:11:PRO:HG2	1.69	0.92
9:7A:42:LEU:CD1	9:7B:39:GLY:CA	2.47	0.92
2:IF:86:ARG:NH1	2:JF:281:TYR:HA	1.81	0.92
1:KA:85:GLN:NE2	1:LA:282:TYR:HB3	1.84	0.92
2:KF:87:PRO:HG2	2:LF:282:ARG:HG3	1.48	0.92
1:LC:222:PRO:CD	2:LD:324:LYS:CD	2.46	0.92
5:3B:231:THR:C	5:3B:335:LYS:CB	2.43	0.92
7:5B:1077:ASN:OD1	7:5B:1083:THR:HG21	1.70	0.92
9:7E:36:GLN:HA	9:7F:43:LEU:CD2	2.00	0.92
1:FC:402:ARG:CD	7:5A:1259:TYR:HD2	1.83	0.92
1:FE:60:LYS:HZ2	1:GE:283:HIS:CE1	1.88	0.92
1:FE:60:LYS:NZ	1:GE:283:HIS:ND1	2.18	0.92
1:KC:101:ASN:CG	2:KD:252:LYS:HD2	1.95	0.92
1:KE:88:HIS:CA	1:LE:284:GLU:CB	2.42	0.92
1:LE:222:PRO:CD	2:LF:324:LYS:CD	2.47	0.92
1:AE:342:GLN:NE2	3:1A:55:HIS:NE2	2.18	0.92
1:CC:101:ASN:HD21	2:CD:252:LYS:CD	1.63	0.92
2:CF:87:PRO:CD	2:DF:281:TYR:CE2	2.53	0.92
1:KC:85:GLN:HE22	1:LC:282:TYR:CB	1.82	0.92
2:LB:310:TYR:HE2	4:2C:147:PHE:CZ	1.88	0.92
2:LD:55:THR:H	2:MD:283:ALA:HB2	1.13	0.92
2:LD:223:GLY:C	6:4B:219:ASN:ND2	2.27	0.92
2:LF:416:ASN:CA	4:2B:168:LEU:CD1	2.47	0.92
2:MB:111:GLU:HG2	3:1A:62:SER:CB	2.00	0.92
7:5B:1243:ASP:CG	9:7D:8:ARG:NH1	2.27	0.92
7:5B:1548:VAL:HG13	7:5B:1565:GLU:OE1	1.68	0.92
1:FE:71:GLU:OE1	2:FF:247:ASN:ND2	2.03	0.91
1:JC:88:HIS:NE2	1:KC:280:LYS:O	2.03	0.91
2:LD:306:ARG:CZ	4:2A:149:ILE:CG2	2.48	0.91
2:LF:340:TYR:CG	4:2B:147:PHE:HB2	2.03	0.91
7:5A:1243:ASP:HB3	9:7B:8:ARG:NH1	1.85	0.91
7:5C:1545:TYR:N	7:5C:1570:ALA:HB2	1.84	0.91
1:LE:76:ASP:OD1	2:LF:46:ARG:NH2	2.03	0.91
5:3A:231:THR:C	5:3A:335:LYS:CB	2.43	0.91
7:5A:1482:SER:O	7:5A:1486:THR:OG1	1.88	0.91
7:5B:1482:SER:O	7:5B:1486:THR:OG1	1.88	0.91
7:5C:1482:SER:O	7:5C:1486:THR:OG1	1.88	0.91
1:AE:342:GLN:NE2	3:1A:55:HIS:CE1	2.39	0.91
2:DD:220:PRO:HD2	1:DE:326:LYS:HE2	1.50	0.91
1:FC:419:SER:CB	7:5A:1256:ARG:CD	2.48	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:85:GLN:C	1:LC:283:HIS:HA	1.94	0.91
1:ME:71:GLU:OE1	2:MF:247:ASN:ND2	2.02	0.91
6:4C:285:ARG:HB3	6:4C:285:ARG:NH1	1.85	0.91
1:CA:282:TYR:HE2	10:8D:18:UNK:CB	1.75	0.91
1:DC:402:ARG:NH2	7:5A:782:LEU:CD1	2.03	0.91
1:FE:419:SER:OG	7:5B:1256:ARG:CD	2.18	0.91
1:HC:282:TYR:HE2	10:8T:19:UNK:N	1.35	0.91
1:IC:101:ASN:CG	2:ID:252:LYS:HD2	1.95	0.91
2:JF:86:ARG:NH1	2:KF:280:GLN:C	2.29	0.91
2:KB:127:CYS:N	4:2C:38:VAL:CB	2.25	0.91
2:MD:110:ALA:O	3:1B:61:HIS:HB3	1.70	0.91
7:5B:1423:LYS:HA	7:5B:1423:LYS:NZ	1.85	0.91
7:5B:1547:SER:C	7:5B:1569:GLU:CD	2.37	0.91
2:EF:125:GLU:CG	7:5B:903:PHE:CD2	2.43	0.91
1:KE:85:GLN:HE22	1:LE:282:TYR:CB	1.82	0.91
6:4A:285:ARG:NH1	6:4A:285:ARG:HB3	1.85	0.91
9:7A:38:LEU:HD23	9:7B:42:LEU:HD13	1.50	0.91
9:7E:18:VAL:CG1	9:7E:42:LEU:CD2	2.49	0.91
2:AF:223:GLY:C	6:4A:131:VAL:HB	1.94	0.91
2:DB:220:PRO:HD2	1:DC:326:LYS:HG2	1.52	0.91
1:EE:426:ALA:HB3	7:5B:833:PHE:HB2	1.52	0.91
2:GD:55:THR:CA	2:HD:283:ALA:HB2	1.99	0.91
1:HC:101:ASN:CG	2:HD:252:LYS:HD2	1.95	0.91
2:KB:77:ARG:CG	2:LB:281:TYR:CE1	2.53	0.91
2:KB:127:CYS:H	4:2C:38:VAL:HG12	0.75	0.91
1:KC:79:ARG:CD	1:LC:280:LYS:NZ	2.34	0.91
7:5C:1423:LYS:HA	7:5C:1423:LYS:NZ	1.85	0.91
9:7C:18:VAL:CG1	9:7C:42:LEU:CD2	2.49	0.91
2:BD:177:ASP:CG	1:BE:353:VAL:HG11	1.94	0.91
1:CC:60:LYS:HZ2	1:DC:283:HIS:CD2	1.88	0.91
1:FA:60:LYS:CD	1:GA:283:HIS:CD2	2.48	0.91
2:FB:212:PHE:HZ	1:FC:326:LYS:HD3	0.74	0.91
1:HA:278:ALA:HB3	10:8S:22:UNK:N	1.84	0.91
2:LF:294:PHE:HD2	4:2B:147:PHE:CZ	1.87	0.91
6:4B:285:ARG:NH1	6:4B:285:ARG:HB3	1.85	0.91
7:5A:1547:SER:C	7:5A:1569:GLU:CD	2.37	0.91
7:5C:1246:LEU:CA	9:7F:12:GLU:OE2	2.19	0.91
2:FF:428:ALA:HB1	7:5B:1080:PHE:HE1	0.87	0.91
1:GC:101:ASN:HD21	2:GD:252:LYS:CD	1.58	0.91
1:IE:402:ARG:HH21	7:5B:1417:GLN:CG	1.84	0.91
1:JA:87:PHE:C	1:KA:283:HIS:CE1	2.41	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:88:HIS:HA	1:LC:284:GLU:CA	2.01	0.91
2:LB:379:LYS:C	4:2C:166:ILE:CD1	2.42	0.91
1:MA:101:ASN:HD22	2:MB:252:LYS:HG3	1.35	0.91
2:MB:177:ASP:OD2	1:MC:353:VAL:CG1	2.17	0.91
1:MC:101:ASN:CG	2:MD:252:LYS:HD2	1.94	0.91
5:3C:231:THR:C	5:3C:335:LYS:CB	2.43	0.91
7:5A:1423:LYS:NZ	7:5A:1423:LYS:HA	1.85	0.91
9:7A:30:ARG:NH1	9:7B:3:GLN:CA	2.14	0.91
1:FA:89:PRO:HD3	1:GA:280:LYS:NZ	1.84	0.91
1:GA:89:PRO:CG	1:HA:280:LYS:HD2	2.00	0.91
2:KB:177:ASP:OD2	1:KC:248:LEU:HD21	1.71	0.91
2:KB:217:LEU:HB3	6:4A:265:TYR:HH	1.23	0.91
2:KD:177:ASP:OD2	1:KE:248:LEU:HD21	1.71	0.91
2:KF:217:LEU:HB3	6:4D:265:TYR:HH	1.10	0.91
2:LB:55:THR:N	2:MB:283:ALA:CB	2.31	0.91
2:LD:55:THR:HG21	2:MD:284:LEU:H	1.36	0.91
9:7C:38:LEU:HD23	9:7D:42:LEU:HD13	1.50	0.91
2:AB:177:ASP:OD2	1:AC:248:LEU:HD21	1.70	0.91
2:AD:356:ILE:HD12	6:4C:152:PHE:HE1	1.35	0.91
1:EC:101:ASN:CG	2:ED:252:LYS:HD2	1.95	0.91
2:GB:177:ASP:CG	1:GC:353:VAL:HG11	1.95	0.91
1:IA:76:ASP:OD1	2:IB:46:ARG:NH2	2.04	0.91
1:JA:128:ASN:HD22	1:KA:285:GLN:NE2	1.68	0.91
1:JC:101:ASN:CG	2:JD:252:LYS:HD2	1.95	0.91
1:KA:76:ASP:OD1	2:KB:46:ARG:NH2	2.04	0.91
2:LF:340:TYR:CD1	4:2B:147:PHE:CB	2.54	0.91
1:ME:398:MET:SD	2:MF:345:ILE:HG13	2.10	0.91
9:7C:42:LEU:CD1	9:7D:39:GLY:CA	2.47	0.91
9:7E:11:TYR:CE1	9:7F:26:LEU:CD2	2.53	0.91
1:CE:101:ASN:HD21	2:CF:252:LYS:CD	1.65	0.90
1:JA:76:ASP:OD1	2:JB:46:ARG:NH2	2.04	0.90
2:KD:55:THR:HG21	2:LD:363:MET:HE1	0.92	0.90
1:KE:85:GLN:N	1:LE:283:HIS:CD2	2.23	0.90
1:LA:89:PRO:CD	1:MA:280:LYS:HD2	1.99	0.90
2:LB:306:ARG:NH2	4:2C:151:VAL:CG2	2.27	0.90
2:LD:306:ARG:CZ	4:2A:149:ILE:HG22	2.00	0.90
2:LF:379:LYS:HZ1	4:2B:166:ILE:N	1.69	0.90
7:5C:1547:SER:C	7:5C:1569:GLU:CD	2.37	0.90
1:FE:422:ARG:HE	7:5B:1170:THR:HB	1.28	0.90
1:JA:89:PRO:HG2	1:KA:280:LYS:CG	2.00	0.90
1:LC:89:PRO:CG	1:MC:280:LYS:CD	2.45	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4C:244:GLU:HG3	6:4C:284:LEU:HD11	1.54	0.90
6:4D:285:ARG:HB3	6:4D:285:ARG:NH1	1.85	0.90
2:CB:397:TRP:CG	1:CC:256:GLN:HE22	1.43	0.90
2:FB:178:THR:HG23	1:FC:258:ASN:HD21	1.34	0.90
2:LB:98:GLY:CA	1:LC:254:GLU:HG2	2.01	0.90
1:MC:279:GLU:HG3	6:4A:110:LYS:HE2	1.51	0.90
6:4A:244:GLU:HG3	6:4A:284:LEU:HD11	1.54	0.90
9:7A:18:VAL:CG1	9:7A:42:LEU:CD2	2.49	0.90
2:AD:177:ASP:OD2	1:AE:248:LEU:HD21	1.71	0.90
2:KF:77:ARG:CG	2:LF:281:TYR:CE1	2.52	0.90
6:4B:244:GLU:HG3	6:4B:284:LEU:HD11	1.54	0.90
7:5B:1530:ILE:HD11	7:5B:1571:MET:HE1	1.52	0.90
1:AC:101:ASN:CG	2:AD:252:LYS:HD2	1.95	0.90
2:AF:356:ILE:HD12	6:4A:152:PHE:CD1	2.06	0.90
2:CD:220:PRO:HD2	1:CE:326:LYS:HG2	1.52	0.90
2:DB:98:GLY:HA2	1:DC:254:GLU:HG3	1.53	0.90
1:FE:60:LYS:CD	1:GE:283:HIS:CD2	2.53	0.90
1:GC:101:ASN:CG	2:GD:252:LYS:HD2	1.95	0.90
2:LF:296:ALA:HB3	4:2B:149:ILE:CG2	1.89	0.90
7:5A:1530:ILE:HD11	7:5A:1571:MET:HE1	1.52	0.90
7:5C:1105:TYR:CB	7:5C:1166:LEU:N	2.34	0.90
2:AD:177:ASP:CG	1:AE:353:VAL:HG11	1.96	0.90
1:GE:402:ARG:CZ	5:3A:381:ASN:ND2	2.24	0.90
2:HB:177:ASP:CG	1:HC:353:VAL:HG11	1.95	0.90
1:HC:101:ASN:HD22	2:HD:252:LYS:HG3	1.36	0.90
1:JA:89:PRO:CD	1:KA:283:HIS:ND1	2.16	0.90
2:KD:86:ARG:NH1	2:LD:283:ALA:CA	2.19	0.90
1:MA:279:GLU:HG3	6:4C:110:LYS:CE	2.01	0.90
5:3C:229:PHE:CE2	5:3C:331:GLN:CG	2.46	0.90
6:4D:244:GLU:HG3	6:4D:284:LEU:HD11	1.53	0.90
7:5C:1530:ILE:HD11	7:5C:1571:MET:HE1	1.52	0.90
2:AD:397:TRP:CG	1:AE:256:GLN:HE22	1.34	0.90
2:CD:177:ASP:CG	1:CE:353:VAL:HG11	1.96	0.90
2:FD:55:THR:H	2:GD:283:ALA:CA	1.84	0.90
2:KD:217:LEU:HD22	6:4B:263:CYS:HG	1.14	0.90
2:KF:88:ASP:OD2	4:2B:150:GLN:NE2	2.05	0.90
2:KF:276:ARG:NH1	6:4D:271:GLU:CA	1.70	0.90
1:LA:176:GLN:NE2	4:2C:42:PHE:CB	2.33	0.90
2:MB:177:ASP:OD2	1:MC:353:VAL:HG13	1.72	0.90
7:5A:839:GLU:CD	8:6A:107:PRO:O	2.14	0.90
7:5A:1105:TYR:CB	7:5A:1166:LEU:N	2.34	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1105:TYR:CB	7:5B:1166:LEU:N	2.34	0.90
7:5C:1490:LYS:C	7:5C:1495:PHE:HB3	1.94	0.90
7:5C:1544:ILE:CD1	7:5C:1570:ALA:O	2.03	0.90
2:FB:55:THR:N	2:GB:283:ALA:CA	2.16	0.90
2:FF:331:LEU:CD2	7:5B:915:PHE:CZ	2.54	0.90
1:GC:56:THR:C	1:HC:285:GLN:HB3	1.97	0.90
1:HA:76:ASP:OD1	2:HB:46:ARG:NH2	2.04	0.90
1:JC:76:ASP:OD1	2:JD:46:ARG:NH2	2.05	0.90
2:KD:86:ARG:HH11	2:LD:283:ALA:HB3	1.29	0.90
1:KE:76:ASP:OD1	2:KF:46:ARG:NH2	2.05	0.90
1:LE:221:ARG:NH1	2:LF:324:LYS:N	2.20	0.90
7:5B:1490:LYS:CD	7:5B:1494:LEU:CD2	2.49	0.90
7:5C:1515:GLU:CG	7:5C:1563:SER:HA	2.01	0.90
8:6B:131:ASP:N	8:6B:136:LEU:HD12	1.87	0.90
9:7C:7:LEU:CD2	9:7D:27:GLY:C	2.36	0.90
2:ED:86:ARG:HA	2:FD:281:TYR:CE1	2.06	0.90
1:GA:89:PRO:HG3	1:HA:280:LYS:CD	2.02	0.90
1:GC:89:PRO:CD	1:HC:280:LYS:NZ	2.33	0.90
2:GD:177:ASP:CG	1:GE:353:VAL:HG11	1.96	0.90
2:GD:177:ASP:OD2	1:GE:248:LEU:HD21	1.71	0.90
1:HC:159:VAL:HG21	5:3C:209:ARG:NE	1.86	0.90
1:IE:76:ASP:OD1	2:IF:46:ARG:NH2	2.05	0.90
1:KA:85:GLN:OE1	1:LA:282:TYR:C	2.14	0.90
2:KB:127:CYS:CB	4:2C:38:VAL:HG21	1.98	0.90
1:KC:76:ASP:OD1	2:KD:46:ARG:NH2	2.05	0.90
1:MC:279:GLU:CB	6:4A:110:LYS:HE3	2.02	0.90
7:5A:1243:ASP:CG	9:7B:8:ARG:NH1	2.30	0.90
7:5A:1490:LYS:CD	7:5A:1494:LEU:CD2	2.49	0.90
7:5A:1490:LYS:C	7:5A:1495:PHE:HB3	1.94	0.90
7:5A:1544:ILE:CD1	7:5A:1570:ALA:O	2.03	0.90
7:5B:1544:ILE:CD1	7:5B:1570:ALA:O	2.03	0.90
7:5C:1491:LEU:N	7:5C:1495:PHE:CB	2.33	0.90
8:6A:131:ASP:N	8:6A:136:LEU:HD12	1.86	0.90
2:AB:220:PRO:O	1:AC:324:VAL:CG1	2.20	0.90
2:AD:55:THR:HG23	2:BD:283:ALA:HA	1.54	0.90
2:AF:359:LYS:HA	6:4A:151:ARG:NH2	1.85	0.90
2:BB:177:ASP:OD2	1:BC:248:LEU:HD21	1.71	0.90
1:FC:402:ARG:NH1	7:5A:1262:GLU:OE2	2.05	0.90
2:GD:58:ARG:NH2	2:HD:281:TYR:CZ	2.40	0.90
1:JE:76:ASP:OD1	2:JF:46:ARG:NH2	2.05	0.90
2:KF:276:ARG:HE	6:4D:265:TYR:HB2	1.36	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LC:60:LYS:HD2	6:4A:101:ARG:CZ	2.00	0.90
7:5A:1515:GLU:CG	7:5A:1563:SER:HA	2.01	0.90
7:5B:1491:LEU:N	7:5B:1495:PHE:CB	2.33	0.90
2:ED:54:ALA:CA	2:FD:283:ALA:HB2	2.03	0.89
1:FA:56:THR:OG1	1:GA:285:GLN:N	2.04	0.89
1:FC:76:ASP:OD1	2:FD:46:ARG:NH2	2.05	0.89
2:IB:177:ASP:OD2	1:IC:248:LEU:HD21	1.70	0.89
1:JA:89:PRO:HB2	1:KA:280:LYS:HG2	0.98	0.89
1:LA:89:PRO:HG3	1:MA:280:LYS:HE3	1.51	0.89
7:5C:839:GLU:CD	8:6C:107:PRO:O	2.15	0.89
2:AB:397:TRP:CG	1:AC:256:GLN:HE22	1.38	0.89
1:BC:101:ASN:HD21	2:BD:252:LYS:CD	1.64	0.89
2:CF:86:ARG:CA	2:DF:281:TYR:CZ	2.34	0.89
1:FA:89:PRO:HD3	1:GA:280:LYS:CE	2.01	0.89
2:GB:177:ASP:OD2	1:GC:248:LEU:HD21	1.71	0.89
1:IC:76:ASP:OD1	2:ID:46:ARG:NH2	2.05	0.89
1:IC:101:ASN:HD22	2:ID:252:LYS:CD	1.85	0.89
2:JB:220:PRO:O	1:JC:324:VAL:CG1	2.20	0.89
1:LA:84:ARG:NH2	6:4C:108:LYS:O	2.01	0.89
2:LF:55:THR:N	2:MF:283:ALA:CB	2.34	0.89
1:MA:279:GLU:CB	6:4C:110:LYS:HE3	2.01	0.89
2:MB:177:ASP:OD1	1:MC:353:VAL:CG1	2.19	0.89
4:2B:33:GLN:NE2	4:2B:51:VAL:O	2.05	0.89
4:2C:162:GLN:HE21	4:2C:162:GLN:HA	1.37	0.89
7:5A:1491:LEU:N	7:5A:1495:PHE:CB	2.33	0.89
7:5B:1515:GLU:CG	7:5B:1563:SER:HA	2.01	0.89
7:5C:1490:LYS:CD	7:5C:1494:LEU:CD2	2.49	0.89
1:GA:89:PRO:CD	1:HA:280:LYS:HZ2	1.79	0.89
2:HD:177:ASP:OD2	1:HE:248:LEU:HD21	1.71	0.89
1:JC:101:ASN:ND2	2:JD:252:LYS:CG	2.36	0.89
1:KA:88:HIS:CB	1:LA:284:GLU:HB2	2.02	0.89
1:KC:85:GLN:HE22	1:LC:282:TYR:HB3	1.37	0.89
1:KE:85:GLN:OE1	1:LE:282:TYR:CB	2.20	0.89
1:LE:176:GLN:NE2	4:2B:42:PHE:CB	2.35	0.89
5:3B:229:PHE:CE2	5:3B:331:GLN:CG	2.46	0.89
7:5B:841:VAL:O	8:6B:9:LEU:O	1.90	0.89
7:5B:1490:LYS:C	7:5B:1495:PHE:HB3	1.94	0.89
8:6C:131:ASP:N	8:6C:136:LEU:HD12	1.87	0.89
1:AA:76:ASP:OD1	2:AB:46:ARG:NH2	2.04	0.89
1:EA:396:ASP:HB3	7:5C:817:LEU:CG	2.02	0.89
1:GA:76:ASP:OD1	2:GB:46:ARG:NH2	2.04	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HB:177:ASP:OD2	1:HC:248:LEU:HD21	1.70	0.89
2:HB:220:PRO:O	1:HC:324:VAL:CG1	2.20	0.89
2:ID:177:ASP:OD2	1:IE:248:LEU:HD21	1.71	0.89
2:KF:272:PRO:C	6:4D:268:LEU:CD2	2.46	0.89
2:LB:397:TRP:CG	1:LC:256:GLN:HE22	1.50	0.89
1:LC:245:ASP:OD1	6:4A:216:ARG:CZ	2.20	0.89
2:MD:177:ASP:OD2	1:ME:353:VAL:HG13	1.72	0.89
4:2A:33:GLN:NE2	4:2A:51:VAL:O	2.05	0.89
6:4D:244:GLU:HA	6:4D:247:LYS:HG3	1.54	0.89
1:AC:76:ASP:OD1	2:AD:46:ARG:NH2	2.05	0.89
1:DC:414:GLU:OE2	7:5A:789:LYS:CE	2.20	0.89
1:FE:76:ASP:OD1	2:FF:46:ARG:NH2	2.05	0.89
1:GC:76:ASP:OD1	2:GD:46:ARG:NH2	2.05	0.89
1:IA:282:TYR:CG	10:8V:15:UNK:HA	2.08	0.89
2:IF:424:GLN:CD	7:5B:1413:GLN:HE21	1.63	0.89
2:LF:55:THR:OG1	2:MF:282:ARG:O	1.90	0.89
4:2A:162:GLN:HE21	4:2A:162:GLN:HA	1.38	0.89
4:2C:33:GLN:NE2	4:2C:51:VAL:O	2.05	0.89
6:4C:244:GLU:HA	6:4C:247:LYS:HG3	1.54	0.89
7:5B:1423:LYS:HA	7:5B:1423:LYS:CE	2.03	0.89
7:5C:1491:LEU:CG	7:5C:1495:PHE:CD1	2.55	0.89
1:AE:283:HIS:ND1	2:MB:86:ARG:NH2	2.20	0.89
1:BE:101:ASN:HD21	2:BF:252:LYS:CD	1.66	0.89
1:CA:101:ASN:HD21	2:CB:252:LYS:CD	1.65	0.89
1:EC:101:ASN:HD22	2:ED:252:LYS:HG3	1.38	0.89
1:FA:56:THR:O	1:GA:285:GLN:HA	1.72	0.89
1:GC:402:ARG:NE	5:3C:381:ASN:ND2	2.06	0.89
2:HD:177:ASP:CG	1:HE:353:VAL:HG11	1.96	0.89
1:JA:88:HIS:ND1	1:KA:280:LYS:HD3	1.87	0.89
1:JC:101:ASN:HD22	2:JD:252:LYS:CD	1.86	0.89
4:2B:162:GLN:HE21	4:2B:162:GLN:HA	1.38	0.89
5:3A:229:PHE:CE2	5:3A:331:GLN:CG	2.46	0.89
7:5A:1491:LEU:CG	7:5A:1495:PHE:CD1	2.55	0.89
7:5B:1491:LEU:CG	7:5B:1495:PHE:CD1	2.55	0.89
9:7A:18:VAL:CG1	9:7A:42:LEU:HD23	2.03	0.89
1:AC:101:ASN:HD22	2:AD:252:LYS:CD	1.86	0.89
1:EC:430:LYS:CE	7:5A:834:ASN:ND2	2.10	0.89
1:FC:402:ARG:NH1	7:5A:1259:TYR:HA	1.86	0.89
2:FD:55:THR:HG23	2:GD:283:ALA:C	1.98	0.89
1:FE:60:LYS:NZ	1:GE:283:HIS:CE1	2.38	0.89
1:GC:101:ASN:ND2	2:GD:252:LYS:CG	2.36	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HE:76:ASP:OD1	2:HF:46:ARG:NH2	2.05	0.89
1:IA:101:ASN:HD21	2:IB:252:LYS:CD	1.61	0.89
1:JC:101:ASN:HD22	2:JD:252:LYS:HG3	1.36	0.89
2:KD:77:ARG:CG	2:LD:281:TYR:CE1	2.52	0.89
2:LD:179:VAL:CG2	1:LE:258:ASN:HA	2.03	0.89
2:MD:177:ASP:OD2	1:ME:353:VAL:CG1	2.20	0.89
6:4B:244:GLU:HA	6:4B:247:LYS:HG3	1.54	0.89
7:5A:826:LEU:HD23	7:5A:840:GLY:CA	2.02	0.89
7:5A:1423:LYS:HA	7:5A:1423:LYS:CE	2.03	0.89
7:5B:826:LEU:HD23	7:5B:840:GLY:CA	2.02	0.89
7:5C:1503:TYR:HA	7:5C:1508:ARG:HD2	1.52	0.89
2:GB:220:PRO:O	1:GC:324:VAL:CG1	2.20	0.89
1:IA:402:ARG:CZ	7:5C:1417:GLN:CG	2.34	0.89
1:IC:279:GLU:CD	10:8W:22:UNK:CB	2.45	0.89
1:KC:85:GLN:HA	1:LC:283:HIS:HA	0.90	0.89
2:LB:391:ARG:HG3	1:LC:346:TRP:CD1	2.07	0.89
1:LC:222:PRO:HG2	2:LD:324:LYS:HB2	1.55	0.89
2:LF:224:ASP:N	6:4D:219:ASN:CG	2.30	0.89
6:4A:244:GLU:HA	6:4A:247:LYS:HG3	1.54	0.89
7:5A:1503:TYR:HA	7:5A:1508:ARG:HD2	1.52	0.89
7:5C:826:LEU:HD23	7:5C:840:GLY:CA	2.02	0.89
7:5C:1423:LYS:HA	7:5C:1423:LYS:CE	2.03	0.89
2:BD:177:ASP:OD2	1:BE:248:LEU:CD2	2.21	0.89
2:EB:98:GLY:C	1:EC:254:GLU:HG2	1.97	0.89
1:HE:415:GLU:HG3	5:3A:235:LEU:HD22	1.54	0.89
1:IC:278:ALA:HB3	10:8W:22:UNK:N	1.88	0.89
1:KC:372:MET:HB3	6:4A:299:TYR:HE1	1.23	0.89
1:LC:76:ASP:OD1	2:LD:46:ARG:NH2	2.05	0.89
1:MA:101:ASN:ND2	2:MB:252:LYS:CG	2.36	0.89
7:5B:1503:TYR:HA	7:5B:1508:ARG:HD2	1.53	0.89
7:5C:773:ARG:HD3	7:5C:773:ARG:H	1.38	0.89
2:AF:55:THR:HG23	2:BF:283:ALA:HA	1.55	0.89
2:CD:86:ARG:CA	2:DD:281:TYR:HE1	1.63	0.89
2:DB:177:ASP:CG	1:DC:353:VAL:HG11	1.94	0.89
1:FC:423:GLU:CD	7:5A:1256:ARG:NH2	2.30	0.89
1:GE:89:PRO:HD3	1:HE:280:LYS:NZ	1.88	0.89
1:IC:101:ASN:ND2	2:ID:252:LYS:CG	2.36	0.89
2:ID:397:TRP:CG	1:IE:256:GLN:HE22	1.35	0.89
1:JA:89:PRO:CG	1:KA:280:LYS:HA	2.01	0.89
2:KD:87:PRO:HG3	2:LD:282:ARG:CG	1.93	0.89
1:LA:176:GLN:O	2:LB:347:ASN:ND2	2.06	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MB:110:ALA:O	3:1A:61:HIS:HB3	1.72	0.89
1:ME:282:TYR:CE2	6:4B:104:ARG:HD3	2.08	0.89
7:5A:773:ARG:HD3	7:5A:773:ARG:H	1.38	0.89
9:7A:15:VAL:HG12	9:7B:35:ILE:HD12	1.54	0.89
1:DC:282:TYR:HE2	10:8H:18:UNK:CB	1.87	0.88
2:FB:55:THR:CG2	2:GB:283:ALA:HA	2.03	0.88
1:FE:222:PRO:CD	2:FF:324:LYS:HD3	2.02	0.88
2:GF:416:ASN:CG	7:5B:1327:LYS:HZ1	1.81	0.88
1:HC:278:ALA:CB	10:8T:22:UNK:N	2.37	0.88
2:IB:220:PRO:O	1:IC:324:VAL:CG1	2.20	0.88
1:LA:60:LYS:HD2	6:4C:101:ARG:HH22	0.74	0.88
1:LA:60:LYS:CD	6:4C:101:ARG:NH2	2.20	0.88
2:LB:177:ASP:OD2	1:LC:353:VAL:HG13	1.71	0.88
1:LE:60:LYS:CD	6:4B:101:ARG:NH2	2.20	0.88
2:MD:177:ASP:OD1	1:ME:353:VAL:HG11	1.70	0.88
5:3B:230:ILE:O	5:3B:332:MET:HG2	1.73	0.88
1:AE:76:ASP:OD1	2:AF:46:ARG:NH2	2.05	0.88
2:CD:397:TRP:CG	1:CE:256:GLN:HE22	1.48	0.88
1:EC:101:ASN:HD22	2:ED:252:LYS:HD2	1.38	0.88
1:GE:76:ASP:OD1	2:GF:46:ARG:NH2	2.05	0.88
1:JC:88:HIS:HE1	1:KC:280:LYS:O	1.27	0.88
1:KC:101:ASN:ND2	2:KD:252:LYS:CG	2.36	0.88
1:KE:359:PRO:HB3	6:4B:299:TYR:HE2	1.27	0.88
2:LD:306:ARG:NE	4:2A:149:ILE:HG21	1.86	0.88
1:LE:401:LYS:NZ	2:LF:344:TRP:CE2	2.40	0.88
5:3A:230:ILE:O	5:3A:332:MET:HG2	1.73	0.88
5:3C:230:ILE:O	5:3C:332:MET:HG2	1.73	0.88
7:5B:773:ARG:HD3	7:5B:773:ARG:H	1.38	0.88
9:7C:18:VAL:CG1	9:7C:42:LEU:HD23	2.03	0.88
2:BB:86:ARG:HA	2:CB:281:TYR:CZ	2.08	0.88
2:FD:106:TYR:O	7:5A:1298:LYS:NZ	2.07	0.88
1:GA:370:LYS:HG2	10:8P:17:UNK:C	2.03	0.88
1:HC:76:ASP:OD1	2:HD:46:ARG:NH2	2.05	0.88
2:KB:273:LEU:HA	6:4A:268:LEU:HD23	0.92	0.88
2:LB:306:ARG:NH2	4:2C:149:ILE:CG2	2.37	0.88
1:ME:101:ASN:HD22	2:MF:252:LYS:HD2	1.37	0.88
1:DA:402:ARG:HE	7:5C:777:ALA:CB	1.83	0.88
1:DE:282:TYR:HE2	10:8I:18:UNK:CB	1.86	0.88
1:KA:101:ASN:CG	2:KB:252:LYS:HD2	1.98	0.88
1:MA:101:ASN:HD22	2:MB:252:LYS:CG	1.86	0.88
7:5A:1549:THR:CA	7:5A:1566:GLU:CG	2.49	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1484:TYR:CD1	7:5B:1568:LYS:CD	2.52	0.88
9:7A:15:VAL:HG12	9:7B:35:ILE:HA	1.54	0.88
2:AF:40:SER:HB3	6:4A:152:PHE:HD2	1.37	0.88
1:HC:101:ASN:HD22	2:HD:252:LYS:CD	1.86	0.88
1:IE:393:HIS:HB3	5:3A:308:PHE:CE2	2.08	0.88
2:JB:177:ASP:OD2	1:JC:248:LEU:HD21	1.70	0.88
2:KB:276:ARG:CZ	6:4A:271:GLU:O	2.08	0.88
2:KD:217:LEU:HB3	6:4B:265:TYR:HH	1.05	0.88
2:LB:306:ARG:HE	4:2C:149:ILE:HG22	0.73	0.88
2:MD:98:GLY:HA2	1:ME:254:GLU:HG3	1.54	0.88
6:4D:198:ASN:O	6:4D:202:VAL:HG23	1.72	0.88
1:CE:76:ASP:OD1	2:CF:46:ARG:NH2	2.05	0.88
2:EB:212:PHE:CZ	1:EC:326:LYS:CD	2.22	0.88
2:ED:98:GLY:C	1:EE:254:GLU:HG2	1.97	0.88
2:GB:55:THR:CG2	2:HB:283:ALA:HB1	2.02	0.88
1:HC:101:ASN:ND2	2:HD:252:LYS:CG	2.36	0.88
2:IB:177:ASP:CG	1:IC:353:VAL:HG11	1.96	0.88
1:IC:101:ASN:HD22	2:ID:252:LYS:HG3	1.36	0.88
1:IE:282:TYR:CD2	10:8X:15:UNK:O	2.27	0.88
2:JF:86:ARG:HH21	2:KF:280:GLN:HB2	1.29	0.88
2:LB:54:ALA:HB1	2:MB:281:TYR:O	1.74	0.88
2:LD:340:TYR:OH	4:2A:146:PRO:HA	1.74	0.88
7:5B:1549:THR:HA	7:5B:1566:GLU:OE1	1.71	0.88
2:AD:55:THR:CG2	2:BD:283:ALA:HA	2.03	0.88
2:CD:220:PRO:HD2	1:CE:326:LYS:HE2	1.53	0.88
1:FA:76:ASP:OD1	2:FB:46:ARG:NH2	2.07	0.88
2:FD:220:PRO:HD2	1:FE:326:LYS:HE2	1.54	0.88
2:GF:58:ARG:NH2	2:HF:281:TYR:OH	2.05	0.88
1:HE:410:GLY:HA2	5:3A:329:ARG:HH21	1.39	0.88
2:KB:83:GLN:HA	2:LB:281:TYR:CD1	2.08	0.88
2:KB:220:PRO:O	1:KC:324:VAL:CG1	2.20	0.88
1:KC:101:ASN:HD22	2:KD:252:LYS:CD	1.86	0.88
2:KD:227:HIS:HB3	6:4B:267:ILE:HD11	1.56	0.88
2:LD:55:THR:H	2:MD:283:ALA:CB	1.87	0.88
2:LF:416:ASN:CA	4:2B:168:LEU:HD13	1.96	0.88
1:ME:279:GLU:HG3	6:4B:110:LYS:HE2	1.54	0.88
1:AC:101:ASN:ND2	2:AD:252:LYS:CG	2.36	0.88
2:AD:223:GLY:C	6:4C:131:VAL:CB	2.43	0.88
1:KC:101:ASN:HD22	2:KD:252:LYS:HG3	1.36	0.88
2:KD:221:THR:HG21	6:4B:262:ASN:N	1.88	0.88
1:KE:85:GLN:OE1	1:LE:282:TYR:HB2	1.71	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LC:60:LYS:CD	6:4A:101:ARG:NH1	2.37	0.88
2:LD:413:SER:HB2	4:2A:171:VAL:HG21	1.54	0.88
9:7E:11:TYR:OH	9:7F:27:GLY:N	2.07	0.88
2:AD:55:THR:HG23	2:BD:283:ALA:CA	2.04	0.88
2:BB:98:GLY:C	1:BC:254:GLU:HG2	1.98	0.88
1:HA:101:ASN:HD22	2:HB:252:LYS:HG3	1.38	0.88
1:IA:101:ASN:CG	2:IB:252:LYS:HD2	1.98	0.88
2:KD:221:THR:HG21	6:4B:261:SER:CA	1.76	0.88
2:LB:55:THR:HG21	2:MB:284:LEU:H	1.38	0.88
6:4B:198:ASN:O	6:4B:202:VAL:HG23	1.73	0.88
9:7E:18:VAL:CG1	9:7E:42:LEU:HD23	2.03	0.88
2:AD:220:PRO:O	1:AE:324:VAL:CG1	2.22	0.88
2:DD:98:GLY:HA2	1:DE:254:GLU:HG3	1.54	0.88
2:FB:177:ASP:CB	1:FC:353:VAL:HG12	2.04	0.88
2:ID:86:ARG:NH1	2:JD:281:TYR:HA	1.89	0.88
2:LD:306:ARG:NH2	4:2A:149:ILE:CG2	2.37	0.88
2:LD:379:LYS:NZ	4:2A:166:ILE:H	1.71	0.88
7:5A:874:GLN:HB2	8:6A:59:LYS:HZ2	1.28	0.88
7:5B:1549:THR:CA	7:5B:1566:GLU:CG	2.49	0.88
9:7C:12:GLU:C	9:7C:16:THR:HG1	1.81	0.88
9:7C:30:ARG:NH1	9:7D:3:GLN:HG2	1.89	0.88
9:7C:30:ARG:NH1	9:7D:3:GLN:CA	2.14	0.88
1:FA:101:ASN:HD21	2:FB:252:LYS:HD2	1.06	0.87
2:HD:220:PRO:O	1:HE:324:VAL:CG1	2.22	0.87
2:IB:177:ASP:CG	1:IC:353:VAL:HG13	1.99	0.87
2:JD:220:PRO:O	1:JE:324:VAL:CG1	2.22	0.87
1:LA:76:ASP:OD1	2:LB:46:ARG:NH2	2.06	0.87
7:5A:1484:TYR:CD1	7:5A:1568:LYS:CD	2.52	0.87
1:IE:101:ASN:HD21	2:IF:252:LYS:CD	1.64	0.87
1:IE:402:ARG:NE	7:5B:1417:GLN:HG3	1.89	0.87
2:JB:86:ARG:HE	2:KB:281:TYR:HD2	1.22	0.87
1:KA:85:GLN:OE1	1:LA:282:TYR:CA	2.21	0.87
2:KB:77:ARG:HG2	2:LB:281:TYR:OH	1.71	0.87
7:5A:1549:THR:HA	7:5A:1566:GLU:OE1	1.71	0.87
9:7C:15:VAL:HG12	9:7D:35:ILE:HD12	1.54	0.87
2:AF:359:LYS:N	6:4A:151:ARG:HH22	1.51	0.87
2:FB:397:TRP:CG	1:FC:256:GLN:HE22	1.59	0.87
1:FC:11:GLN:OE1	2:FD:245:GLN:O	1.92	0.87
1:GA:101:ASN:HD21	2:GB:252:LYS:CD	1.62	0.87
2:ID:177:ASP:CG	1:IE:353:VAL:HG11	1.96	0.87
2:JB:86:ARG:CZ	2:KB:280:GLN:C	2.47	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JC:89:PRO:HG2	1:KC:280:LYS:HG2	1.56	0.87
1:KC:88:HIS:HA	1:LC:284:GLU:HB2	0.88	0.87
2:LD:98:GLY:HA2	1:LE:254:GLU:CG	2.04	0.87
7:5A:1126:PRO:HD2	8:6A:246:TYR:OH	1.75	0.87
7:5B:1545:TYR:N	7:5B:1570:ALA:CB	2.37	0.87
9:7E:12:GLU:C	9:7E:16:THR:HG1	1.81	0.87
2:AB:177:ASP:CG	1:AC:353:VAL:HG13	1.99	0.87
2:BD:98:GLY:C	1:BE:254:GLU:HG2	1.98	0.87
2:EB:397:TRP:CG	1:EC:256:GLN:HE22	1.46	0.87
2:ED:220:PRO:HD2	1:EE:326:LYS:HG2	1.56	0.87
2:GD:220:PRO:O	1:GE:324:VAL:CG1	2.22	0.87
2:LD:296:ALA:CB	4:2A:149:ILE:HG21	1.98	0.87
2:LF:55:THR:CG2	2:MF:283:ALA:CB	2.41	0.87
1:MA:282:TYR:CE2	6:4C:104:ARG:HD3	2.10	0.87
6:4A:198:ASN:O	6:4A:202:VAL:HG23	1.72	0.87
7:5A:1545:TYR:N	7:5A:1570:ALA:CB	2.37	0.87
9:7A:12:GLU:C	9:7A:16:THR:HG1	1.81	0.87
9:7A:30:ARG:NH1	9:7B:3:GLN:HG2	1.89	0.87
9:7F:12:GLU:HA	9:7F:16:THR:HG1	1.38	0.87
2:AD:40:SER:OG	6:4C:152:PHE:HE2	1.48	0.87
2:FF:54:ALA:HA	2:GF:283:ALA:HB2	1.56	0.87
2:JB:55:THR:CG2	2:KB:362:LYS:HZ3	1.55	0.87
2:JD:177:ASP:OD2	1:JE:248:LEU:HD21	1.71	0.87
2:KB:228:LEU:CD2	6:4A:267:ILE:HD12	2.05	0.87
1:LA:401:LYS:NZ	2:LB:344:TRP:CE2	2.42	0.87
2:LF:306:ARG:NE	4:2B:149:ILE:HG21	1.88	0.87
1:ME:101:ASN:CG	2:MF:252:LYS:HD2	1.97	0.87
1:ME:283:HIS:NE2	6:4B:101:ARG:NH2	2.23	0.87
5:3B:230:ILE:HG22	5:3B:332:MET:SD	2.15	0.87
7:5B:1404:LYS:O	7:5B:1404:LYS:NZ	2.07	0.87
9:7A:11:TYR:HD1	9:7B:26:LEU:HD23	1.06	0.87
1:FA:56:THR:C	1:GA:285:GLN:HB3	1.98	0.87
1:HA:282:TYR:HE2	10:8S:19:UNK:N	1.44	0.87
2:LF:231:ALA:HB2	6:4D:226:ILE:HD13	0.88	0.87
6:4C:198:ASN:O	6:4C:202:VAL:HG23	1.73	0.87
7:5C:1545:TYR:N	7:5C:1570:ALA:CB	2.37	0.87
7:5C:1549:THR:HA	7:5C:1566:GLU:OE1	1.70	0.87
9:7C:15:VAL:HG12	9:7D:35:ILE:HA	1.54	0.87
1:CA:76:ASP:OD1	2:CB:46:ARG:NH2	2.07	0.87
2:CB:177:ASP:O	1:CC:352:LYS:CD	2.23	0.87
1:DA:402:ARG:NH2	7:5C:782:LEU:CD1	2.11	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:101:ASN:HD22	2:EB:252:LYS:HG3	1.38	0.87
1:GC:101:ASN:HD22	2:GD:252:LYS:HG3	1.36	0.87
2:GD:405:GLU:OE2	7:5A:1337:ASP:OD2	1.92	0.87
1:JC:89:PRO:HB2	1:KC:280:LYS:HG2	0.87	0.87
1:KE:359:PRO:HG3	6:4B:299:TYR:CD2	2.09	0.87
1:ME:279:GLU:HG3	6:4B:110:LYS:HE3	1.56	0.87
9:7A:14:SER:O	9:7B:35:ILE:CD1	2.22	0.87
1:EA:101:ASN:CG	2:EB:252:LYS:HD2	1.98	0.87
1:FA:89:PRO:HG3	1:GA:280:LYS:HG3	1.56	0.87
1:FA:419:SER:OG	7:5C:1256:ARG:CD	2.23	0.87
1:GC:409:VAL:HG21	5:3C:383:GLU:OE1	1.75	0.87
2:IB:85:PHE:O	2:JB:281:TYR:OH	1.92	0.87
1:JA:101:ASN:CG	2:JB:252:LYS:HD2	1.98	0.87
2:KD:276:ARG:NH2	6:4B:265:TYR:HA	1.90	0.87
1:LE:89:PRO:CG	1:ME:280:LYS:NZ	2.37	0.87
1:MC:279:GLU:HG3	6:4A:110:LYS:HE3	1.51	0.87
7:5A:1404:LYS:O	7:5A:1404:LYS:NZ	2.07	0.87
7:5C:1484:TYR:CD1	7:5C:1568:LYS:CD	2.52	0.87
9:7C:15:VAL:HA	9:7D:35:ILE:HD11	1.04	0.87
2:FD:55:THR:HG23	2:GD:284:LEU:N	1.89	0.87
1:IC:101:ASN:HD22	2:ID:252:LYS:CG	1.87	0.87
1:JE:89:PRO:HB2	1:KE:280:LYS:HG2	0.87	0.87
2:KB:177:ASP:CG	1:KC:353:VAL:HG13	1.99	0.87
2:LB:227:HIS:CE1	6:4A:226:ILE:HG13	2.09	0.87
5:3A:230:ILE:HG22	5:3A:332:MET:SD	2.15	0.87
9:7A:12:GLU:C	9:7A:16:THR:OG1	2.18	0.87
9:7C:11:TYR:HD1	9:7D:26:LEU:HD23	1.06	0.87
9:7C:14:SER:O	9:7D:35:ILE:CD1	2.22	0.87
1:AC:101:ASN:HD22	2:AD:252:LYS:HG3	1.36	0.86
1:EC:370:LYS:HZ1	10:8K:17:UNK:CB	1.84	0.86
1:EE:222:PRO:CG	2:EF:324:LYS:HD3	2.04	0.86
1:GE:101:ASN:HD21	2:GF:252:LYS:CD	1.64	0.86
1:JC:101:ASN:HD22	2:JD:252:LYS:CG	1.87	0.86
9:7C:18:VAL:HG12	9:7C:42:LEU:CD2	2.05	0.86
2:AF:276:ARG:NH1	6:4A:137:ASN:O	2.09	0.86
2:DB:397:TRP:CG	1:DC:256:GLN:HE22	1.47	0.86
1:EC:101:ASN:HD22	2:ED:252:LYS:CD	1.87	0.86
1:JA:101:ASN:ND2	2:JB:252:LYS:CG	2.38	0.86
2:LF:224:ASP:N	6:4D:219:ASN:HD21	1.49	0.86
7:5C:1404:LYS:O	7:5C:1404:LYS:NZ	2.07	0.86
9:7C:12:GLU:C	9:7C:16:THR:OG1	2.18	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:397:TRP:HE3	1:CC:257:THR:HG22	1.37	0.86
1:EE:426:ALA:CB	7:5B:833:PHE:HB2	2.04	0.86
2:EF:54:ALA:CA	2:FF:283:ALA:HB2	2.05	0.86
2:FF:55:THR:CG2	2:GF:283:ALA:CA	2.43	0.86
1:GA:101:ASN:ND2	2:GB:252:LYS:CG	2.38	0.86
1:HC:101:ASN:HD22	2:HD:252:LYS:CG	1.87	0.86
1:IA:101:ASN:HD22	2:IB:252:LYS:HG3	1.38	0.86
1:IA:282:TYR:CD1	10:8V:15:UNK:CA	2.55	0.86
2:KD:220:PRO:O	1:KE:324:VAL:CG1	2.22	0.86
2:LB:177:ASP:O	1:LC:352:LYS:CD	2.20	0.86
2:LB:310:TYR:HE2	4:2C:147:PHE:CE2	1.92	0.86
1:LE:89:PRO:CD	1:ME:280:LYS:HD2	2.03	0.86
1:ME:404:PHE:HE2	2:MF:345:ILE:CD1	1.87	0.86
9:7E:18:VAL:HG12	9:7E:42:LEU:CD2	2.05	0.86
1:FE:402:ARG:HD3	7:5B:1259:TYR:HD2	1.35	0.86
1:HC:282:TYR:CE2	10:8T:15:UNK:O	2.28	0.86
1:HE:415:GLU:HG3	5:3A:235:LEU:CD2	2.04	0.86
2:ID:177:ASP:CG	1:IE:353:VAL:HG13	2.00	0.86
1:JA:88:HIS:NE2	1:KA:280:LYS:O	2.07	0.86
1:KA:127:ASP:OD2	1:LA:334:THR:HG23	1.76	0.86
2:KD:124:ALA:O	4:2A:37:GLY:O	1.94	0.86
2:LB:18:ALA:HB3	6:4A:217:ASN:ND2	1.89	0.86
2:LF:379:LYS:HZ1	4:2B:166:ILE:CB	1.86	0.86
9:7A:18:VAL:HG12	9:7A:42:LEU:CD2	2.05	0.86
1:AA:101:ASN:HD22	2:AB:252:LYS:HG3	1.38	0.86
1:CA:60:LYS:NZ	1:DA:283:HIS:CD2	2.43	0.86
1:EE:71:GLU:OE1	2:EF:247:ASN:ND2	2.09	0.86
1:JC:87:PHE:O	1:KC:283:HIS:HE1	1.43	0.86
1:KA:101:ASN:HD22	2:KB:252:LYS:HG3	1.38	0.86
1:LE:89:PRO:HD3	1:ME:280:LYS:CE	2.05	0.86
1:MC:101:ASN:HD22	2:MD:252:LYS:HG3	1.39	0.86
1:MC:101:ASN:HD22	2:MD:252:LYS:HD2	1.39	0.86
2:GB:177:ASP:CG	1:GC:353:VAL:HG13	1.99	0.86
1:HC:101:ASN:HD22	2:HD:252:LYS:HD2	1.40	0.86
2:IF:424:GLN:HE21	7:5B:1413:GLN:CD	1.60	0.86
2:KB:87:PRO:HG3	2:LB:282:ARG:HG3	0.86	0.86
1:LC:407:TRP:CZ2	2:LD:254:ALA:O	2.29	0.86
2:LD:54:ALA:C	2:MD:283:ALA:HB2	2.01	0.86
7:5B:1276:GLU:HG2	9:7D:7:LEU:HD12	1.56	0.86
1:DE:402:ARG:NH2	7:5B:777:ALA:HB3	1.88	0.86
2:FF:106:TYR:O	7:5B:1298:LYS:NZ	2.09	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GC:101:ASN:HD22	2:GD:252:LYS:CG	1.87	0.86
1:IC:393:HIS:CE1	5:3C:306:ASP:OD1	2.27	0.86
1:JA:101:ASN:HD22	2:JB:252:LYS:HG3	1.38	0.86
1:LA:89:PRO:HD3	1:MA:280:LYS:CE	2.05	0.86
2:MB:98:GLY:HA2	1:MC:254:GLU:HG3	1.56	0.86
2:MB:177:ASP:OD2	1:MC:248:LEU:HD21	1.75	0.86
5:3C:230:ILE:HG22	5:3C:332:MET:SD	2.15	0.86
2:CD:220:PRO:O	1:CE:324:VAL:HG11	1.74	0.86
1:DA:60:LYS:HD3	1:EA:283:HIS:CD2	2.10	0.86
2:ED:157:GLU:OE1	7:5A:935:LYS:HE3	1.76	0.86
1:FC:222:PRO:CD	2:FD:324:LYS:HD3	2.05	0.86
1:GA:101:ASN:CG	2:GB:252:LYS:HD2	1.98	0.86
1:HA:101:ASN:CG	2:HB:252:LYS:HD2	1.98	0.86
2:ID:220:PRO:O	1:IE:324:VAL:CG1	2.22	0.86
1:JC:282:TYR:OH	10:8Z:17:UNK:CB	2.24	0.86
2:KB:86:ARG:HG2	2:LB:288:GLU:CD	2.00	0.86
2:KD:54:ALA:CB	2:LD:285:THR:HG22	1.95	0.86
2:KD:125:GLU:HG3	2:LD:336:LYS:HZ1	1.06	0.86
7:5A:1521:PHE:HA	7:5A:1567:PHE:CE2	2.11	0.86
7:5B:1267:CYS:O	7:5B:1270:ASP:CB	2.21	0.86
7:5B:1521:PHE:HA	7:5B:1567:PHE:CE2	2.11	0.86
7:5C:1521:PHE:HA	7:5C:1567:PHE:CE2	2.11	0.86
9:7A:42:LEU:HD13	9:7B:39:GLY:CA	2.06	0.86
1:AA:101:ASN:CG	2:AB:252:LYS:HD2	1.98	0.86
2:AD:177:ASP:CG	1:AE:353:VAL:HG13	2.00	0.86
2:AD:362:LYS:HZ1	6:4C:143:THR:C	1.83	0.86
1:CE:101:ASN:HD22	2:CF:252:LYS:HG3	1.40	0.86
1:FA:56:THR:HA	1:GA:285:GLN:CB	2.01	0.86
2:FD:397:TRP:CG	1:FE:256:GLN:HE22	1.51	0.86
1:FE:423:GLU:CD	7:5B:1256:ARG:NH2	2.32	0.86
1:HE:101:ASN:HD22	2:HF:252:LYS:HD2	1.41	0.86
1:HE:282:TYR:HE2	10:8U:18:UNK:C	1.81	0.86
2:KB:273:LEU:HG	6:4A:268:LEU:HD21	1.56	0.86
1:KC:85:GLN:NE2	1:LC:282:TYR:CB	2.38	0.86
1:KC:101:ASN:HD22	2:KD:252:LYS:CG	1.87	0.86
2:KF:276:ARG:HH21	6:4D:265:TYR:HA	1.38	0.86
2:LB:306:ARG:HH12	4:2C:151:VAL:CG2	1.88	0.86
7:5A:1243:ASP:CB	9:7B:8:ARG:NH1	2.38	0.86
7:5A:1267:CYS:O	7:5A:1270:ASP:CB	2.21	0.86
7:5B:1487:ASN:OD1	7:5B:1568:LYS:HE3	1.74	0.86
7:5C:1267:CYS:O	7:5C:1270:ASP:CB	2.21	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:86:ARG:N	2:EB:281:TYR:CE1	2.43	0.86
1:DE:101:ASN:HD21	2:DF:252:LYS:CD	1.68	0.86
1:FA:89:PRO:N	1:GA:280:LYS:HZ2	1.73	0.86
1:IA:101:ASN:ND2	2:IB:252:LYS:CG	2.38	0.86
1:KE:87:PHE:O	1:LE:283:HIS:O	1.94	0.86
4:2A:15:GLU:O	4:2A:19:MET:HG2	1.76	0.86
4:2C:15:GLU:O	4:2C:19:MET:HG2	1.76	0.86
7:5A:1487:ASN:OD1	7:5A:1568:LYS:HE3	1.74	0.86
7:5A:1490:LYS:CG	7:5A:1494:LEU:CD2	2.54	0.86
7:5A:1533:GLU:CG	7:5A:1604:ALA:HB1	2.06	0.86
7:5A:1565:GLU:HB2	7:5A:1568:LYS:CB	2.04	0.86
7:5B:1276:GLU:HG2	9:7D:7:LEU:CD1	2.05	0.86
7:5B:1565:GLU:HB2	7:5B:1568:LYS:CB	2.04	0.86
7:5C:1490:LYS:HD2	7:5C:1494:LEU:CG	2.06	0.86
7:5C:1490:LYS:CG	7:5C:1494:LEU:CD2	2.54	0.86
9:7C:39:GLY:HA3	9:7D:43:LEU:CD1	2.05	0.86
9:7C:42:LEU:HD13	9:7D:39:GLY:CA	2.06	0.86
2:CD:98:GLY:HA2	1:CE:254:GLU:HG3	1.58	0.85
2:DD:220:PRO:O	1:DE:324:VAL:HG13	1.75	0.85
2:EB:125:GLU:O	7:5C:903:PHE:CE2	2.29	0.85
2:ED:125:GLU:CB	7:5A:903:PHE:HE2	1.78	0.85
1:GC:101:ASN:HD22	2:GD:252:LYS:CD	1.85	0.85
1:HA:101:ASN:ND2	2:HB:252:LYS:CG	2.38	0.85
1:JA:89:PRO:HD2	1:KA:283:HIS:ND1	1.90	0.85
1:KA:101:ASN:ND2	2:KB:252:LYS:CG	2.38	0.85
2:LF:306:ARG:NE	4:2B:149:ILE:HG22	1.88	0.85
7:5A:1490:LYS:HD2	7:5A:1494:LEU:CG	2.06	0.85
7:5B:1490:LYS:CG	7:5B:1494:LEU:CD2	2.54	0.85
7:5B:1533:GLU:CG	7:5B:1604:ALA:HB1	2.06	0.85
7:5C:1533:GLU:CG	7:5C:1604:ALA:HB1	2.06	0.85
7:5C:1565:GLU:HB2	7:5C:1568:LYS:CB	2.04	0.85
9:7A:39:GLY:HA3	9:7B:43:LEU:CD1	2.05	0.85
9:7E:12:GLU:C	9:7E:16:THR:OG1	2.18	0.85
2:BD:220:PRO:HD2	1:BE:326:LYS:HE2	1.58	0.85
1:EC:76:ASP:OD1	2:ED:46:ARG:NH2	2.08	0.85
1:EC:101:ASN:ND2	2:ED:252:LYS:CG	2.39	0.85
2:FD:391:ARG:HG3	1:FE:346:TRP:CD1	2.11	0.85
2:KD:273:LEU:CB	6:4B:268:LEU:HD21	2.05	0.85
2:LD:296:ALA:HB3	4:2A:149:ILE:CG2	1.82	0.85
4:2B:15:GLU:O	4:2B:19:MET:HG2	1.76	0.85
7:5A:1378:GLN:HA	7:5A:1381:ILE:HD13	1.58	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1487:ASN:OD1	7:5C:1568:LYS:HE3	1.74	0.85
7:5C:1549:THR:HA	7:5C:1566:GLU:CG	2.01	0.85
1:EA:101:ASN:ND2	2:EB:252:LYS:CG	2.40	0.85
1:FE:402:ARG:CD	7:5B:1259:TYR:HD2	1.88	0.85
2:GD:177:ASP:CG	1:GE:353:VAL:HG13	2.00	0.85
1:IA:58:ALA:CB	10:8Y:13:UNK:N	2.39	0.85
2:LB:306:ARG:HH22	4:2C:151:VAL:HG23	1.38	0.85
2:LB:331:LEU:HD21	4:2C:42:PHE:CE2	1.91	0.85
6:4C:132:LYS:HE2	6:4C:132:LYS:O	1.75	0.85
6:4C:244:GLU:CA	6:4C:247:LYS:CG	2.53	0.85
7:5B:1378:GLN:HA	7:5B:1381:ILE:HD13	1.58	0.85
7:5B:1490:LYS:HD2	7:5B:1494:LEU:CG	2.06	0.85
7:5C:1378:GLN:HA	7:5C:1381:ILE:HD13	1.58	0.85
2:AF:356:ILE:HD12	6:4A:152:PHE:HE1	1.33	0.85
2:BB:177:ASP:CG	1:BC:353:VAL:HG11	1.99	0.85
2:DD:177:ASP:CG	1:DE:353:VAL:HG11	1.95	0.85
2:KD:130:LEU:HB2	4:2A:37:GLY:HA2	1.57	0.85
2:LF:227:HIS:CE1	6:4D:226:ILE:HG13	2.12	0.85
9:7C:39:GLY:HA3	9:7D:43:LEU:HD11	1.58	0.85
1:CC:101:ASN:HD22	2:CD:252:LYS:HG3	1.40	0.85
1:EA:101:ASN:HD22	2:EB:252:LYS:HD2	1.42	0.85
2:FB:55:THR:HG21	2:GB:284:LEU:N	1.66	0.85
2:GB:55:THR:HG21	2:HB:284:LEU:H	1.39	0.85
1:IA:58:ALA:HB2	10:8Y:13:UNK:N	1.91	0.85
1:IE:279:GLU:CD	10:8X:22:UNK:CB	2.49	0.85
1:KA:87:PHE:O	1:LA:283:HIS:C	2.18	0.85
2:KB:55:THR:HG21	2:LB:363:MET:HE3	1.55	0.85
6:4A:132:LYS:HE2	6:4A:132:LYS:O	1.75	0.85
7:5A:1425:LYS:O	7:5A:1425:LYS:NZ	2.08	0.85
7:5C:1425:LYS:O	7:5C:1425:LYS:NZ	2.08	0.85
7:5C:1490:LYS:HD3	7:5C:1494:LEU:HB3	1.58	0.85
1:KC:101:ASN:HD22	2:KD:252:LYS:HD2	1.40	0.85
2:KD:215:LEU:CD2	6:4B:267:ILE:O	2.23	0.85
2:KD:221:THR:CG2	6:4B:261:SER:CA	2.33	0.85
1:LA:60:LYS:HE3	6:4C:101:ARG:NH1	1.92	0.85
2:LB:54:ALA:C	2:MB:283:ALA:HB2	2.01	0.85
2:LD:379:LYS:HZ1	4:2A:166:ILE:N	1.74	0.85
1:MA:222:PRO:CG	2:MB:324:LYS:HD3	2.06	0.85
6:4D:154:LYS:HZ3	6:4D:154:LYS:HB2	1.41	0.85
7:5A:1267:CYS:SG	9:7A:8:ARG:HG3	2.17	0.85
7:5B:1425:LYS:O	7:5B:1425:LYS:NZ	2.08	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:101:ASN:HD22	2:AD:252:LYS:CG	1.87	0.85
2:BD:87:PRO:HD2	2:CD:281:TYR:CZ	2.12	0.85
1:CC:76:ASP:OD1	2:CD:46:ARG:NH2	2.09	0.85
1:FA:419:SER:CB	7:5C:1256:ARG:CD	2.55	0.85
2:FB:106:TYR:O	7:5C:1298:LYS:NZ	2.09	0.85
2:FD:177:ASP:CB	1:FE:353:VAL:HG12	2.06	0.85
2:FF:55:THR:CG2	2:GF:284:LEU:H	1.89	0.85
1:GA:101:ASN:HD22	2:GB:252:LYS:HG3	1.38	0.85
1:LC:89:PRO:CD	1:MC:280:LYS:HD2	2.06	0.85
2:LD:227:HIS:CE1	6:4B:226:ILE:HG13	2.11	0.85
2:LF:223:GLY:C	6:4D:219:ASN:ND2	2.35	0.85
1:ME:279:GLU:OE2	6:4B:106:ALA:HB3	1.77	0.85
7:5C:1126:PRO:CD	8:6C:246:TYR:OH	2.24	0.85
7:5C:1484:TYR:CD1	7:5C:1568:LYS:HD3	2.12	0.85
9:7A:15:VAL:HA	9:7B:35:ILE:HD11	1.04	0.85
2:AF:55:THR:CG2	2:BF:283:ALA:HA	2.06	0.85
1:CA:101:ASN:HD22	2:CB:252:LYS:HG3	1.41	0.85
2:CB:98:GLY:HA2	1:CC:254:GLU:HG3	1.58	0.85
2:CB:177:ASP:OD2	1:CC:248:LEU:CD2	2.25	0.85
1:GE:101:ASN:CG	2:GF:252:LYS:HD2	2.00	0.85
2:HF:261:PRO:CG	5:3A:337:ARG:HH21	1.89	0.85
1:JE:101:ASN:CG	2:JF:252:LYS:HD2	2.00	0.85
1:KA:90:GLU:N	1:LA:284:GLU:OE1	2.08	0.85
2:KF:86:ARG:HG2	2:LF:288:GLU:OE2	1.77	0.85
2:LF:77:ARG:HH11	6:4D:204:ARG:NH2	1.70	0.85
2:MB:177:ASP:OD1	1:MC:353:VAL:HG11	1.75	0.85
7:5A:1484:TYR:CD1	7:5A:1568:LYS:HD3	2.12	0.85
7:5A:1549:THR:HA	7:5A:1566:GLU:CG	2.01	0.85
9:7A:39:GLY:HA3	9:7B:43:LEU:HD11	1.58	0.85
1:EC:101:ASN:HD22	2:ED:252:LYS:CG	1.88	0.85
1:HA:282:TYR:CZ	10:8S:15:UNK:O	2.30	0.85
2:KF:272:PRO:O	6:4D:268:LEU:HD21	1.76	0.85
1:LC:401:LYS:NZ	2:LD:344:TRP:CZ2	2.45	0.85
1:MC:404:PHE:HE2	2:MD:345:ILE:CD1	1.90	0.85
6:4A:244:GLU:CA	6:4A:247:LYS:CG	2.53	0.85
6:4B:132:LYS:HE2	6:4B:132:LYS:O	1.75	0.85
1:AA:101:ASN:ND2	2:AB:252:LYS:CG	2.38	0.85
1:EC:62:VAL:HG21	1:FC:283:HIS:O	1.77	0.85
1:FE:402:ARG:NH1	7:5B:1259:TYR:HA	1.90	0.85
2:GD:55:THR:H	2:HD:283:ALA:HB2	1.03	0.85
2:KD:215:LEU:CD1	6:4B:267:ILE:CG2	2.46	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:101:ASN:HD22	2:KF:252:LYS:HD2	1.41	0.85
6:4B:244:GLU:CA	6:4B:247:LYS:CG	2.54	0.85
6:4D:132:LYS:HE2	6:4D:132:LYS:O	1.75	0.85
7:5B:1355:GLN:CA	7:5B:1358:LYS:HG3	2.05	0.85
7:5B:1484:TYR:CD1	7:5B:1568:LYS:HD3	2.12	0.85
7:5B:1549:THR:HA	7:5B:1566:GLU:CG	2.01	0.85
9:7E:11:TYR:CD1	9:7F:26:LEU:CD2	2.54	0.85
2:BB:87:PRO:HD2	2:CB:281:TYR:CZ	2.12	0.84
1:FC:402:ARG:HD3	7:5A:1259:TYR:HD2	1.33	0.84
2:FF:54:ALA:CA	2:GF:283:ALA:HB2	2.06	0.84
2:GB:54:ALA:HB1	2:HB:281:TYR:O	1.77	0.84
1:GE:409:VAL:HG11	5:3A:383:GLU:OE1	1.77	0.84
1:HE:101:ASN:CG	2:HF:252:LYS:HD2	2.00	0.84
1:IC:101:ASN:HD22	2:ID:252:LYS:HD2	1.40	0.84
6:4D:244:GLU:CA	6:4D:247:LYS:CG	2.54	0.84
7:5A:1355:GLN:CA	7:5A:1358:LYS:HG3	2.05	0.84
2:AF:55:THR:HG23	2:BF:283:ALA:CA	2.07	0.84
2:BB:220:PRO:HD2	1:BC:326:LYS:HG2	1.58	0.84
2:DD:397:TRP:CG	1:DE:256:GLN:HE22	1.48	0.84
1:EA:396:ASP:CA	7:5C:817:LEU:HD21	2.07	0.84
1:EA:402:ARG:NE	7:5C:824:ARG:NH2	2.23	0.84
1:GC:56:THR:O	1:HC:285:GLN:CB	2.24	0.84
2:KB:55:THR:CG2	2:LB:363:MET:CE	2.31	0.84
2:LD:55:THR:CB	2:MD:283:ALA:HA	2.06	0.84
2:MB:177:ASP:OD2	1:MC:248:LEU:CD2	2.24	0.84
1:MC:222:PRO:CG	2:MD:324:LYS:HD3	2.06	0.84
6:4A:154:LYS:HB2	6:4A:154:LYS:HZ3	1.41	0.84
7:5B:1490:LYS:C	7:5B:1495:PHE:HB2	2.00	0.84
7:5C:1077:ASN:HA	7:5C:1083:THR:CG2	2.07	0.84
1:AC:342:GLN:NE2	3:1C:55:HIS:NE2	2.24	0.84
1:EC:11:GLN:OE1	2:ED:245:GLN:O	1.96	0.84
1:HA:101:ASN:HD22	2:HB:252:LYS:CD	1.90	0.84
1:KC:85:GLN:CA	1:LC:283:HIS:HD2	1.86	0.84
2:LD:306:ARG:HH21	4:2A:149:ILE:CG2	1.90	0.84
7:5C:1355:GLN:CA	7:5C:1358:LYS:HG3	2.05	0.84
9:7A:11:TYR:HE1	9:7B:26:LEU:CG	1.89	0.84
9:7C:11:TYR:HE1	9:7D:26:LEU:CG	1.89	0.84
2:AD:280:GLN:NE2	6:4C:141:LYS:HB3	1.90	0.84
1:AE:101:ASN:HD22	2:AF:252:LYS:CD	1.90	0.84
2:CB:220:PRO:O	1:CC:324:VAL:HG11	1.75	0.84
2:CB:220:PRO:HD2	1:CC:326:LYS:HE2	1.57	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LC:89:PRO:CG	1:MC:280:LYS:CE	2.55	0.84
1:LC:401:LYS:NZ	2:LD:344:TRP:CD2	2.44	0.84
7:5B:1562:LEU:H	7:5B:1562:LEU:HD12	1.40	0.84
9:7C:35:ILE:O	9:7D:43:LEU:HD23	1.77	0.84
1:DC:101:ASN:HD21	2:DD:252:LYS:CD	1.69	0.84
2:EB:157:GLU:CD	7:5C:935:LYS:HZ2	1.80	0.84
1:EC:71:GLU:OE1	2:ED:247:ASN:ND2	2.11	0.84
2:ED:157:GLU:CD	7:5A:935:LYS:HZ1	1.76	0.84
1:FC:419:SER:OG	7:5A:1256:ARG:CD	2.24	0.84
1:IA:101:ASN:HD22	2:IB:252:LYS:CD	1.90	0.84
1:KE:85:GLN:NE2	1:LE:282:TYR:HB3	1.91	0.84
2:LB:331:LEU:HD23	4:2C:42:PHE:CZ	1.37	0.84
7:5B:832:ASN:OD1	7:5B:832:ASN:N	2.09	0.84
7:5B:1246:LEU:N	9:7D:12:GLU:OE1	2.09	0.84
1:AE:101:ASN:CG	2:AF:252:LYS:HD2	2.00	0.84
1:DA:101:ASN:HD22	2:DB:252:LYS:HG3	1.42	0.84
2:EF:55:THR:HG21	2:FF:284:LEU:H	1.41	0.84
1:FC:60:LYS:HD3	1:GC:283:HIS:HA	0.90	0.84
1:FC:419:SER:CB	7:5A:1256:ARG:CZ	2.55	0.84
1:HE:101:ASN:HD22	2:HF:252:LYS:HG3	1.42	0.84
1:JE:282:TYR:OH	10:9A:17:UNK:CB	2.26	0.84
2:KF:130:LEU:HB2	4:2B:37:GLY:HA2	1.60	0.84
1:LE:222:PRO:HD2	2:LF:324:LYS:HB3	1.57	0.84
5:3A:229:PHE:HE2	5:3A:331:GLN:HB3	0.69	0.84
5:3B:229:PHE:HE2	5:3B:331:GLN:HB3	0.68	0.84
7:5A:832:ASN:OD1	7:5A:832:ASN:N	2.09	0.84
7:5A:1077:ASN:HA	7:5A:1083:THR:CG2	2.07	0.84
7:5C:1490:LYS:C	7:5C:1495:PHE:HB2	2.00	0.84
7:5C:1562:LEU:H	7:5C:1562:LEU:HD12	1.40	0.84
1:IE:101:ASN:HD22	2:IF:252:LYS:CD	1.90	0.84
1:IE:101:ASN:CG	2:IF:252:LYS:HD2	2.00	0.84
1:KC:85:GLN:NE2	1:LC:282:TYR:HB3	1.92	0.84
1:KE:84:ARG:NE	1:LE:283:HIS:CE1	2.38	0.84
2:LD:340:TYR:CB	4:2A:147:PHE:HB2	2.07	0.84
1:MC:101:ASN:ND2	2:MD:252:LYS:CG	2.41	0.84
2:DD:177:ASP:O	1:DE:352:LYS:CD	2.24	0.84
1:JE:101:ASN:HD22	2:JF:252:LYS:CD	1.90	0.84
2:LB:379:LYS:NZ	4:2C:166:ILE:H	1.76	0.84
2:LD:55:THR:HG21	2:MD:283:ALA:HA	1.57	0.84
1:LE:401:LYS:NZ	2:LF:344:TRP:CD2	2.45	0.84
2:LF:55:THR:HG21	2:MF:284:LEU:H	1.43	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:3C:229:PHE:HE2	5:3C:331:GLN:HB3	0.68	0.84
9:7A:35:ILE:O	9:7B:43:LEU:HD23	1.77	0.84
9:7B:12:GLU:HA	9:7B:16:THR:HG1	1.41	0.84
2:AF:361:LEU:HD22	6:4A:144:LEU:HD12	1.60	0.84
2:BD:220:PRO:O	1:BE:324:VAL:HG11	1.78	0.84
2:ED:212:PHE:CZ	1:EE:326:LYS:CD	2.22	0.84
1:HE:369:ALA:HB1	10:8U:18:UNK:HA	1.60	0.84
1:MC:101:ASN:HD22	2:MD:252:LYS:CG	1.90	0.84
7:5A:1562:LEU:H	7:5A:1562:LEU:HD12	1.40	0.84
2:DB:220:PRO:O	1:DC:324:VAL:HG13	1.78	0.84
2:EB:220:PRO:CD	1:EC:326:LYS:HE2	2.07	0.84
2:ED:220:PRO:CD	1:EE:326:LYS:HE2	2.06	0.84
1:FA:402:ARG:HD3	7:5C:1259:TYR:HD2	1.42	0.84
1:HC:415:GLU:HG3	5:3C:235:LEU:CB	2.06	0.84
1:JA:91:GLN:H	1:KA:280:LYS:HZ3	1.24	0.84
2:JB:86:ARG:HH22	2:KB:280:GLN:CB	1.90	0.84
2:JB:177:ASP:CG	1:JC:353:VAL:HG11	1.95	0.84
2:KD:158:GLU:CA	4:2A:34:ASN:CB	2.34	0.84
1:MA:101:ASN:HD22	2:MB:252:LYS:CD	1.86	0.84
6:4A:244:GLU:CA	6:4A:247:LYS:HG2	2.08	0.84
6:4B:244:GLU:CA	6:4B:247:LYS:HG2	2.08	0.84
6:4D:244:GLU:CA	6:4D:247:LYS:HG2	2.08	0.84
7:5A:1490:LYS:C	7:5A:1495:PHE:HB2	2.00	0.84
7:5C:1367:LYS:HB2	7:5C:1367:LYS:NZ	1.93	0.84
2:FD:55:THR:H	2:GD:283:ALA:CB	1.84	0.83
1:FE:419:SER:CB	7:5B:1256:ARG:CZ	2.55	0.83
2:FF:54:ALA:C	2:GF:283:ALA:HB2	2.03	0.83
1:JA:101:ASN:HD22	2:JB:252:LYS:CD	1.90	0.83
2:KB:217:LEU:HB3	6:4A:265:TYR:CZ	2.13	0.83
2:KF:86:ARG:HH11	2:LF:283:ALA:HB3	1.41	0.83
2:LB:177:ASP:CG	1:LC:353:VAL:HG13	2.00	0.83
1:MC:282:TYR:CE2	6:4A:104:ARG:HD3	2.12	0.83
6:4C:244:GLU:CA	6:4C:247:LYS:HG2	2.08	0.83
7:5A:1267:CYS:SG	9:7A:8:ARG:CG	2.66	0.83
7:5A:1367:LYS:HB2	7:5A:1367:LYS:NZ	1.93	0.83
7:5B:1077:ASN:HA	7:5B:1083:THR:CG2	2.07	0.83
1:AA:101:ASN:HD22	2:AB:252:LYS:CD	1.90	0.83
2:BD:220:PRO:HD2	1:BE:326:LYS:HG2	1.57	0.83
2:CD:87:PRO:HD2	2:DD:281:TYR:CZ	2.13	0.83
1:DE:402:ARG:NE	7:5B:777:ALA:HB2	1.92	0.83
2:ED:397:TRP:CG	1:EE:256:GLN:HE22	1.47	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HC:415:GLU:HG3	5:3C:235:LEU:HD22	1.60	0.83
2:JF:88:ASP:HB2	2:KF:278:SER:CB	2.08	0.83
2:KB:124:ALA:O	4:2C:38:VAL:CG1	2.26	0.83
1:KE:101:ASN:CG	2:KF:252:LYS:HD2	2.00	0.83
1:LA:222:PRO:HG2	2:LB:324:LYS:HB2	1.60	0.83
1:LA:407:TRP:CZ2	2:LB:254:ALA:O	2.31	0.83
2:LD:306:ARG:NH1	4:2A:151:VAL:HG23	1.79	0.83
1:ME:101:ASN:HD22	2:MF:252:LYS:CD	1.89	0.83
7:5B:841:VAL:CG2	8:6B:11:PRO:HA	2.08	0.83
7:5B:1367:LYS:HB2	7:5B:1367:LYS:NZ	1.93	0.83
1:EA:76:ASP:OD1	2:EB:46:ARG:NH2	2.10	0.83
1:HC:415:GLU:HG3	5:3C:235:LEU:CD2	2.07	0.83
1:IE:101:ASN:HD22	2:IF:252:LYS:HD2	1.41	0.83
1:JA:90:GLU:HG2	1:KA:280:LYS:HD2	1.59	0.83
1:LA:222:PRO:HD2	2:LB:324:LYS:CD	2.06	0.83
9:7B:12:GLU:C	9:7B:16:THR:OG1	2.20	0.83
2:CB:177:ASP:OD1	1:CC:353:VAL:HG12	1.73	0.83
2:DB:86:ARG:CB	2:EB:281:TYR:CE1	2.60	0.83
1:DC:402:ARG:HE	7:5A:777:ALA:CB	1.83	0.83
1:FE:419:SER:HB3	7:5B:1256:ARG:HG2	1.60	0.83
1:GE:402:ARG:NE	5:3A:381:ASN:ND2	2.26	0.83
2:IF:424:GLN:CD	7:5B:1413:GLN:HE22	1.73	0.83
1:LC:245:ASP:CG	6:4A:216:ARG:HE	1.85	0.83
2:EB:177:ASP:OD2	1:EC:248:LEU:CD2	2.26	0.83
1:FA:56:THR:C	1:GA:285:GLN:CB	2.51	0.83
1:FE:11:GLN:OE1	2:FF:245:GLN:O	1.96	0.83
1:HE:101:ASN:HD22	2:HF:252:LYS:CD	1.90	0.83
2:LB:331:LEU:CD2	4:2C:42:PHE:CZ	0.81	0.83
2:LD:77:ARG:HH11	6:4B:204:ARG:NH2	1.74	0.83
2:LD:306:ARG:NH2	4:2A:149:ILE:HG22	1.93	0.83
1:LE:11:GLN:NE2	2:LF:247:ASN:OD1	2.11	0.83
1:MA:279:GLU:CG	6:4C:110:LYS:HE3	2.08	0.83
1:DE:414:GLU:OE2	7:5B:789:LYS:NZ	2.11	0.83
1:IA:278:ALA:CB	10:8V:22:UNK:N	2.38	0.83
1:IC:402:ARG:HE	7:5A:1417:GLN:HG3	1.44	0.83
1:IE:101:ASN:HD22	2:IF:252:LYS:HG3	1.42	0.83
1:KE:101:ASN:HD22	2:KF:252:LYS:CD	1.90	0.83
1:LA:401:LYS:NZ	2:LB:344:TRP:CD2	2.46	0.83
2:LB:413:SER:HB2	4:2C:171:VAL:HG21	1.57	0.83
7:5C:1246:LEU:HG	9:7F:12:GLU:CD	2.03	0.83
9:7C:11:TYR:CZ	9:7D:26:LEU:HB3	2.13	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:322:SER:N	6:4C:156:PHE:CE2	2.47	0.83
1:DA:401:LYS:CE	2:DB:344:TRP:CE3	2.47	0.83
2:FF:55:THR:H	2:GF:283:ALA:HB2	1.37	0.83
1:JA:101:ASN:HD22	2:JB:252:LYS:CG	1.91	0.83
2:JD:86:ARG:HH21	2:KD:280:GLN:HB2	1.43	0.83
2:KB:54:ALA:CA	2:LB:285:THR:CG2	2.53	0.83
1:KC:85:GLN:CD	1:LC:282:TYR:CB	2.50	0.83
2:MD:98:GLY:C	1:ME:254:GLU:HG2	2.03	0.83
1:ME:372:MET:CE	6:4B:96:VAL:C	2.43	0.83
5:3C:224:ASP:N	5:3C:335:LYS:HZ3	1.75	0.83
2:AD:280:GLN:HA	6:4C:142:SER:HB3	1.59	0.83
2:CD:177:ASP:OD2	1:CE:248:LEU:CD2	2.27	0.83
1:FA:422:ARG:HE	7:5C:1170:THR:HB	1.38	0.83
1:GE:402:ARG:NE	5:3A:381:ASN:HD22	1.77	0.83
1:IA:101:ASN:HD22	2:IB:252:LYS:CG	1.91	0.83
1:IE:282:TYR:CE2	10:8X:15:UNK:O	2.31	0.83
1:KE:101:ASN:HD22	2:KF:252:LYS:HG3	1.42	0.83
7:5C:839:GLU:HG2	8:6C:107:PRO:O	1.79	0.83
9:7A:11:TYR:CZ	9:7B:26:LEU:HB3	2.13	0.83
2:BD:177:ASP:OD2	1:BE:248:LEU:HD21	1.78	0.83
2:CB:87:PRO:HD2	2:DB:281:TYR:CZ	2.13	0.83
1:DA:101:ASN:ND2	2:DB:252:LYS:CG	2.42	0.83
1:EA:101:ASN:HD22	2:EB:252:LYS:CG	1.90	0.83
2:JD:177:ASP:CG	1:JE:353:VAL:HG11	1.96	0.83
1:JE:101:ASN:ND2	2:JF:252:LYS:CG	2.42	0.83
2:KD:125:GLU:HG3	2:LD:336:LYS:HZ3	1.03	0.83
4:2B:16:GLN:HA	4:2B:19:MET:CG	2.09	0.83
5:3B:224:ASP:N	5:3B:335:LYS:HZ3	1.75	0.83
7:5B:1480:VAL:HG11	7:5B:1572:LEU:HD22	1.61	0.83
9:7D:12:GLU:C	9:7D:16:THR:OG1	2.20	0.83
2:AD:359:LYS:HA	6:4C:151:ARG:NH2	1.92	0.83
1:CE:222:PRO:CG	2:CF:324:LYS:HD3	2.08	0.83
1:FA:423:GLU:CD	7:5C:1256:ARG:NH2	2.35	0.83
2:FD:220:PRO:O	1:FE:324:VAL:HG11	1.78	0.83
1:FE:101:ASN:HD21	2:FF:252:LYS:CD	1.77	0.83
1:GE:101:ASN:ND2	2:GF:252:LYS:CG	2.42	0.83
2:LD:220:PRO:HD2	1:LE:326:LYS:HG2	1.59	0.83
2:LF:379:LYS:HE3	4:2B:166:ILE:HG13	1.59	0.83
9:7F:12:GLU:C	9:7F:16:THR:OG1	2.21	0.83
1:BC:101:ASN:HD22	2:BD:252:LYS:CD	1.92	0.82
1:FA:89:PRO:CD	1:GA:280:LYS:NZ	2.42	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FC:402:ARG:CD	7:5A:1259:TYR:CD2	2.61	0.82
2:GB:55:THR:HG23	2:HB:283:ALA:C	2.01	0.82
2:GB:412:GLU:OE2	7:5C:1323:MET:HE2	1.79	0.82
2:JB:86:ARG:NH1	2:KB:280:GLN:C	2.37	0.82
1:LA:60:LYS:NZ	1:MA:283:HIS:ND1	2.27	0.82
2:LB:306:ARG:NH2	4:2C:149:ILE:HG22	1.94	0.82
2:LF:55:THR:H	2:MF:283:ALA:CB	1.92	0.82
2:MB:111:GLU:HG2	3:1A:62:SER:HB2	1.59	0.82
7:5A:1480:VAL:HG11	7:5A:1572:LEU:HD22	1.61	0.82
1:CC:101:ASN:ND2	2:CD:252:LYS:CG	2.41	0.82
2:DB:98:GLY:C	1:DC:254:GLU:HG2	2.04	0.82
2:FB:220:PRO:O	1:FC:324:VAL:CG1	2.27	0.82
1:HA:101:ASN:HD22	2:HB:252:LYS:CG	1.91	0.82
1:HC:410:GLY:HA2	5:3C:329:ARG:HH21	1.42	0.82
1:JC:124:LYS:HD2	1:KC:284:GLU:OE1	1.78	0.82
1:LA:89:PRO:CG	1:MA:280:LYS:NZ	2.42	0.82
2:LB:296:ALA:HB2	4:2C:149:ILE:HG21	1.61	0.82
2:MD:78:ALA:CB	6:4B:178:HIS:NE2	2.42	0.82
4:2A:16:GLN:HA	4:2A:19:MET:CG	2.09	0.82
2:DB:177:ASP:OD2	1:DC:248:LEU:CD2	2.27	0.82
1:IE:431:ASP:OD2	5:3A:61:SER:O	1.96	0.82
1:JE:101:ASN:HD22	2:JF:252:LYS:HG3	1.42	0.82
2:LB:55:THR:CB	2:MB:283:ALA:HA	2.09	0.82
2:LF:55:THR:HG21	2:MF:283:ALA:HA	1.59	0.82
4:2C:16:GLN:HA	4:2C:19:MET:CG	2.09	0.82
4:2C:170:LYS:HB3	4:2C:172:ASP:HB3	1.61	0.82
6:4A:244:GLU:HA	6:4A:247:LYS:CG	2.09	0.82
6:4B:244:GLU:HA	6:4B:247:LYS:CG	2.10	0.82
6:4C:244:GLU:HA	6:4C:247:LYS:CG	2.09	0.82
7:5C:1480:VAL:HG11	7:5C:1572:LEU:HD22	1.61	0.82
1:BC:101:ASN:HD22	2:BD:252:LYS:HG3	1.43	0.82
2:EB:55:THR:CG2	2:FB:283:ALA:HA	2.06	0.82
1:EE:76:ASP:OD1	2:EF:46:ARG:NH2	2.10	0.82
2:EF:86:ARG:HA	2:FF:281:TYR:CE1	2.15	0.82
2:KD:125:GLU:CD	2:LD:332:ASN:HD22	1.86	0.82
1:MA:279:GLU:HG3	6:4C:110:LYS:HE3	1.61	0.82
1:ME:101:ASN:HD22	2:MF:252:LYS:HG3	1.43	0.82
4:2A:170:LYS:HB3	4:2A:172:ASP:HB3	1.61	0.82
6:4D:244:GLU:HA	6:4D:247:LYS:CG	2.10	0.82
1:AE:101:ASN:HD22	2:AF:252:LYS:HG3	1.42	0.82
1:KA:101:ASN:HD22	2:KB:252:LYS:CD	1.90	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LB:231:ALA:CB	6:4A:226:ILE:CD1	2.24	0.82
7:5B:1487:ASN:CG	7:5B:1568:LYS:CG	2.52	0.82
7:5C:1549:THR:CA	7:5C:1566:GLU:CG	2.49	0.82
1:BA:101:ASN:HD22	2:BB:252:LYS:HG3	1.43	0.82
2:DD:220:PRO:CD	1:DE:326:LYS:HE2	2.10	0.82
2:ED:220:PRO:O	1:EE:324:VAL:HG13	1.80	0.82
1:IE:101:ASN:ND2	2:IF:252:LYS:CG	2.42	0.82
1:KA:127:ASP:OD2	1:LA:334:THR:CG2	2.28	0.82
2:LB:55:THR:H	2:MB:283:ALA:CB	1.93	0.82
4:2B:170:LYS:HB3	4:2B:172:ASP:HB3	1.61	0.82
7:5A:1487:ASN:CG	7:5A:1568:LYS:CG	2.52	0.82
7:5A:1544:ILE:HA	7:5A:1573:ARG:HD2	0.84	0.82
7:5A:1548:VAL:HG12	7:5A:1566:GLU:HA	0.84	0.82
7:5C:839:GLU:CG	8:6C:107:PRO:O	2.28	0.82
7:5C:1267:CYS:SG	9:7E:8:ARG:HG3	2.19	0.82
7:5C:1471:ILE:HD12	7:5C:1471:ILE:H	1.44	0.82
7:5C:1487:ASN:CG	7:5C:1568:LYS:CG	2.52	0.82
2:ED:125:GLU:CG	7:5A:903:PHE:CD2	2.53	0.82
1:FA:60:LYS:HD2	1:GA:283:HIS:CD2	2.14	0.82
1:FA:60:LYS:HD2	1:GA:283:HIS:HD2	1.41	0.82
1:GA:101:ASN:HD22	2:GB:252:LYS:CG	1.91	0.82
1:JE:90:GLU:HG2	1:KE:280:LYS:HB3	1.61	0.82
1:KA:79:ARG:O	1:LA:280:LYS:CE	2.22	0.82
1:KE:101:ASN:ND2	2:KF:252:LYS:CG	2.42	0.82
1:ME:279:GLU:CB	6:4B:110:LYS:CE	2.57	0.82
5:3A:224:ASP:N	5:3A:335:LYS:HZ3	1.76	0.82
6:4B:132:LYS:HA	6:4B:132:LYS:CE	2.07	0.82
6:4D:132:LYS:HA	6:4D:132:LYS:CE	2.07	0.82
7:5B:1548:VAL:HG12	7:5B:1566:GLU:HA	0.84	0.82
7:5C:1544:ILE:HA	7:5C:1573:ARG:HD2	0.83	0.82
9:7F:18:VAL:CG1	9:7F:42:LEU:HD23	2.09	0.82
1:AE:283:HIS:HB3	2:MB:86:ARG:HH12	1.42	0.82
1:CE:101:ASN:ND2	2:CF:252:LYS:CG	2.42	0.82
2:DD:86:ARG:N	2:ED:281:TYR:CE1	2.47	0.82
1:EC:402:ARG:NE	7:5A:824:ARG:NH2	2.27	0.82
1:GA:60:LYS:HD3	1:HA:283:HIS:CG	2.15	0.82
1:GE:101:ASN:HD22	2:GF:252:LYS:HG3	1.42	0.82
1:HE:101:ASN:ND2	2:HF:252:LYS:CG	2.42	0.82
1:IE:434:GLU:OE1	5:3A:61:SER:CB	2.27	0.82
1:KA:101:ASN:HD22	2:KB:252:LYS:CG	1.91	0.82
2:KB:159:TYR:CE2	4:2C:35:VAL:O	2.32	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:86:ARG:NH1	2:LF:283:ALA:CA	2.42	0.82
2:LD:310:TYR:HE2	4:2A:147:PHE:CE2	1.98	0.82
1:LE:407:TRP:CZ2	2:LF:254:ALA:O	2.33	0.82
6:4C:101:ARG:HH21	6:4C:101:ARG:HG3	1.43	0.82
7:5A:1471:ILE:H	7:5A:1471:ILE:HD12	1.44	0.82
7:5B:1544:ILE:HA	7:5B:1573:ARG:HD2	0.83	0.82
9:7A:30:ARG:HH11	9:7B:3:GLN:CG	1.92	0.82
9:7C:30:ARG:HH11	9:7D:3:GLN:CG	1.92	0.82
9:7E:42:LEU:HD12	9:7F:39:GLY:CA	2.09	0.82
2:AD:361:LEU:HD22	6:4C:144:LEU:HD12	1.60	0.82
2:CD:397:TRP:HE3	1:CE:257:THR:HG22	1.42	0.82
2:EF:157:GLU:OE1	7:5B:935:LYS:HE3	1.79	0.82
2:FF:55:THR:N	2:GF:283:ALA:CB	2.43	0.82
2:KB:177:ASP:CG	1:KC:353:VAL:HG11	1.96	0.82
2:LB:331:LEU:CD2	4:2C:42:PHE:CE1	1.75	0.82
2:LD:18:ALA:HB3	6:4B:217:ASN:ND2	1.94	0.82
6:4A:132:LYS:HA	6:4A:132:LYS:CE	2.07	0.82
7:5C:1535:ILE:HG12	7:5C:1574:ILE:O	1.80	0.82
7:5C:1548:VAL:HG12	7:5C:1566:GLU:HA	0.84	0.82
9:7C:15:VAL:CG1	9:7D:35:ILE:HA	2.09	0.82
1:AA:101:ASN:HD22	2:AB:252:LYS:CG	1.91	0.82
1:BE:76:ASP:OD1	2:BF:46:ARG:NH2	2.11	0.82
2:DD:212:PHE:CZ	1:DE:326:LYS:CD	2.18	0.82
2:MB:221:THR:HG21	6:4A:189:ARG:CZ	2.10	0.82
2:MD:78:ALA:HB3	6:4B:178:HIS:NE2	1.94	0.82
6:4C:132:LYS:HA	6:4C:132:LYS:CE	2.07	0.82
9:7A:15:VAL:CG1	9:7B:35:ILE:HA	2.09	0.82
9:7B:18:VAL:CG1	9:7B:42:LEU:HD23	2.09	0.82
9:7C:30:ARG:HH12	9:7D:3:GLN:HA	0.66	0.82
1:BE:101:ASN:HD22	2:BF:252:LYS:CD	1.92	0.81
2:ED:157:GLU:CD	7:5A:935:LYS:HZ2	1.84	0.81
1:FA:89:PRO:CA	1:GA:280:LYS:HZ2	1.93	0.81
1:FA:222:PRO:CD	2:FB:324:LYS:HD3	2.09	0.81
2:GB:54:ALA:C	2:HB:283:ALA:HB2	2.04	0.81
2:KF:124:ALA:O	4:2B:37:GLY:O	1.97	0.81
2:LB:310:TYR:CE2	4:2C:147:PHE:CE2	2.68	0.81
1:LE:224:TYR:HE2	2:LF:246:LEU:HD11	1.44	0.81
7:5A:1535:ILE:HG12	7:5A:1574:ILE:O	1.80	0.81
7:5B:1471:ILE:HD12	7:5B:1471:ILE:H	1.44	0.81
9:7D:18:VAL:CG1	9:7D:42:LEU:HD23	2.08	0.81
2:AD:217:LEU:HD23	6:4C:132:LYS:HG2	1.59	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:101:ASN:HD22	2:EB:252:LYS:CD	1.89	0.81
1:FA:56:THR:O	1:GA:285:GLN:CB	2.27	0.81
1:FA:419:SER:HB2	7:5C:1256:ARG:HE	0.67	0.81
2:FB:100:ASN:HB2	1:FC:257:THR:HG21	1.62	0.81
2:FB:220:PRO:HD2	1:FC:326:LYS:HE2	1.60	0.81
1:JC:89:PRO:CG	1:KC:280:LYS:CG	2.49	0.81
2:JD:86:ARG:NH1	2:KD:280:GLN:C	2.37	0.81
1:LC:11:GLN:NE2	2:LD:247:ASN:OD1	2.12	0.81
1:MC:279:GLU:OE2	6:4A:106:ALA:HB3	1.80	0.81
2:MD:111:GLU:HG2	3:1B:62:SER:HB2	1.61	0.81
9:7A:30:ARG:HH12	9:7B:3:GLN:HA	0.66	0.81
2:AF:217:LEU:HD22	6:4A:132:LYS:CG	2.10	0.81
1:BC:101:ASN:ND2	2:BD:252:LYS:CG	2.43	0.81
2:CB:220:PRO:O	1:CC:324:VAL:HG13	1.78	0.81
1:DC:222:PRO:CG	2:DD:324:LYS:HD3	2.10	0.81
2:DD:98:GLY:C	1:DE:254:GLU:HG2	2.05	0.81
2:EB:220:PRO:O	1:EC:324:VAL:HG13	1.80	0.81
1:FA:101:ASN:HD22	2:FB:252:LYS:HG3	1.43	0.81
1:FC:101:ASN:HD22	2:FD:252:LYS:HG3	1.42	0.81
1:GE:56:THR:HG1	1:HE:284:GLU:CA	1.88	0.81
1:IC:282:TYR:CD1	10:8W:15:UNK:HA	2.14	0.81
1:IE:402:ARG:NH2	7:5B:1417:GLN:HG2	1.93	0.81
1:JA:279:GLU:CD	10:8Y:22:UNK:CB	2.53	0.81
1:KA:79:ARG:C	1:LA:280:LYS:HE2	2.05	0.81
2:KD:276:ARG:NH2	6:4B:266:ASN:H	1.78	0.81
1:LA:35:GLN:HE21	6:4C:101:ARG:HB2	1.44	0.81
2:LB:177:ASP:OD2	1:LC:353:VAL:CG1	2.27	0.81
2:LB:413:SER:HB2	4:2C:171:VAL:CG2	2.10	0.81
1:MC:279:GLU:CG	6:4A:110:LYS:CE	2.57	0.81
6:4A:101:ARG:HH21	6:4A:101:ARG:HG3	1.43	0.81
7:5B:1535:ILE:HG12	7:5B:1574:ILE:O	1.80	0.81
1:AE:101:ASN:ND2	2:AF:252:LYS:CG	2.42	0.81
1:BA:76:ASP:OD1	2:BB:46:ARG:NH2	2.13	0.81
1:EA:396:ASP:HB3	7:5C:817:LEU:HD23	1.43	0.81
2:EB:125:GLU:C	7:5C:903:PHE:HZ	1.74	0.81
2:ED:125:GLU:C	7:5A:903:PHE:HZ	1.69	0.81
1:FC:207:GLU:OE1	7:5A:915:PHE:CD2	2.33	0.81
1:JE:90:GLU:C	1:KE:280:LYS:HZ2	1.77	0.81
1:LC:89:PRO:HG3	1:MC:280:LYS:HE3	1.60	0.81
2:LD:54:ALA:HB1	2:MD:281:TYR:O	1.81	0.81
1:LE:35:GLN:HE21	6:4B:101:ARG:HB2	1.44	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LF:54:ALA:HB1	2:MF:281:TYR:O	1.81	0.81
7:5C:1490:LYS:CG	7:5C:1494:LEU:HB3	2.09	0.81
2:CD:86:ARG:NH1	2:DD:281:TYR:CA	2.43	0.81
2:FD:98:GLY:CA	1:FE:254:GLU:CG	2.35	0.81
1:FE:282:TYR:CD2	10:8O:18:UNK:CB	2.60	0.81
2:JB:86:ARG:NH2	2:KB:280:GLN:HB3	1.96	0.81
2:KB:54:ALA:CB	2:LB:285:THR:HG23	1.88	0.81
1:LC:60:LYS:NZ	1:MC:283:HIS:ND1	2.29	0.81
1:BA:222:PRO:CG	2:BB:324:LYS:HD3	2.10	0.81
1:CA:101:ASN:ND2	2:CB:252:LYS:CG	2.43	0.81
2:DB:177:ASP:O	1:DC:352:LYS:CD	2.28	0.81
1:EA:71:GLU:OE1	2:EB:247:ASN:ND2	2.14	0.81
1:EA:222:PRO:CG	2:EB:324:LYS:HD3	2.10	0.81
1:EE:430:LYS:HZ2	7:5B:834:ASN:CG	1.71	0.81
2:FB:332:ASN:ND2	7:5C:909:ASN:OD1	2.14	0.81
1:FC:101:ASN:HD21	2:FD:252:LYS:CD	1.76	0.81
1:JC:101:ASN:HD22	2:JD:252:LYS:HD2	1.40	0.81
2:KD:177:ASP:CG	1:KE:353:VAL:HG11	1.96	0.81
6:4B:101:ARG:HH21	6:4B:101:ARG:HG3	1.44	0.81
7:5A:1490:LYS:CG	7:5A:1494:LEU:HB3	2.09	0.81
2:AD:362:LYS:HG2	6:4C:146:ILE:CB	2.10	0.81
1:BC:101:ASN:CG	2:BD:252:LYS:HD2	2.03	0.81
1:EC:423:GLU:OE2	7:5A:830:VAL:HG11	1.79	0.81
2:GB:55:THR:H	2:HB:283:ALA:CB	1.91	0.81
1:KA:85:GLN:CA	1:LA:283:HIS:CA	2.41	0.81
2:KD:125:GLU:CD	2:LD:336:LYS:HZ3	1.89	0.81
2:LD:231:ALA:CB	6:4B:226:ILE:CD1	2.27	0.81
2:LF:306:ARG:HH21	4:2B:149:ILE:CG2	1.93	0.81
1:MC:101:ASN:HD21	2:MD:252:LYS:HD2	0.98	0.81
7:5A:1125:LEU:HD11	8:6A:245:GLN:OE1	1.80	0.81
7:5B:1490:LYS:CG	7:5B:1494:LEU:HB3	2.09	0.81
7:5C:1152:GLU:CD	8:6C:66:ARG:CZ	2.54	0.81
2:EB:86:ARG:HA	2:FB:281:TYR:CE1	2.15	0.81
2:JF:86:ARG:HH12	2:KF:280:GLN:HB3	1.45	0.81
1:KC:85:GLN:CA	1:LC:283:HIS:CD2	2.48	0.81
1:ME:101:ASN:HD22	2:MF:252:LYS:CG	1.93	0.81
7:5A:1276:GLU:HG2	9:7B:7:LEU:CD1	2.11	0.81
2:AD:322:SER:N	6:4C:156:PHE:HE2	1.77	0.81
1:CA:60:LYS:HZ2	1:DA:283:HIS:CD2	1.99	0.81
2:FD:106:TYR:O	7:5A:1298:LYS:CE	2.29	0.81
2:FF:428:ALA:HA	7:5B:1080:PHE:CE1	2.15	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:101:ASN:HD22	2:GB:252:LYS:CD	1.90	0.81
1:HE:420:GLU:OE1	5:3A:215:TYR:CE1	2.33	0.81
2:JB:55:THR:CG2	2:KB:362:LYS:HZ2	1.93	0.81
1:JC:90:GLU:C	1:KC:280:LYS:NZ	2.27	0.81
2:KD:276:ARG:NE	6:4B:265:TYR:HB2	1.95	0.81
2:LF:413:SER:HB2	4:2B:171:VAL:CG2	2.10	0.81
1:MC:101:ASN:HD22	2:MD:252:LYS:CD	1.89	0.81
7:5C:1487:ASN:HB3	7:5C:1568:LYS:HE2	0.81	0.81
9:7E:42:LEU:CD1	9:7F:39:GLY:HA2	2.10	0.81
1:BA:101:ASN:HD22	2:BB:252:LYS:CD	1.92	0.81
2:CB:179:VAL:CG2	1:CC:258:ASN:HA	2.11	0.81
2:ED:177:ASP:CB	1:EE:353:VAL:HG12	2.11	0.81
1:FC:60:LYS:CD	1:GC:283:HIS:HD2	1.92	0.81
1:FC:89:PRO:HD3	1:GC:280:LYS:HZ2	1.00	0.81
1:IE:402:ARG:HH21	7:5B:1417:GLN:HG2	1.46	0.81
2:KF:125:GLU:HG3	2:LF:336:LYS:HZ3	1.43	0.81
1:ME:101:ASN:ND2	2:MF:252:LYS:CG	2.44	0.81
1:BA:101:ASN:ND2	2:BB:252:LYS:CG	2.44	0.80
2:EB:177:ASP:CB	1:EC:353:VAL:HG12	2.11	0.80
1:HE:278:ALA:HB2	10:8U:18:UNK:O	1.79	0.80
1:JE:101:ASN:HD22	2:JF:252:LYS:CG	1.94	0.80
2:LB:397:TRP:HE3	1:LC:257:THR:HG22	1.42	0.80
2:LF:54:ALA:C	2:MF:283:ALA:HB2	2.06	0.80
6:4A:164:ARG:HB3	6:4A:164:ARG:NH1	1.95	0.80
6:4C:164:ARG:HB3	6:4C:164:ARG:NH1	1.95	0.80
6:4D:101:ARG:HH21	6:4D:101:ARG:HG3	1.44	0.80
7:5A:1487:ASN:HB3	7:5A:1568:LYS:HE2	0.81	0.80
7:5B:841:VAL:CG1	8:6B:9:LEU:HD23	2.10	0.80
7:5B:1487:ASN:HB3	7:5B:1568:LYS:HE2	0.81	0.80
7:5C:1105:TYR:HB3	7:5C:1166:LEU:HB2	1.63	0.80
1:DC:222:PRO:CD	2:DD:324:LYS:HD3	2.11	0.80
1:EE:101:ASN:HD22	2:EF:252:LYS:HG3	1.44	0.80
1:IE:101:ASN:HD22	2:IF:252:LYS:CG	1.94	0.80
2:LD:177:ASP:OD1	1:LE:353:VAL:HG11	1.80	0.80
2:LF:379:LYS:NZ	4:2B:166:ILE:HB	1.96	0.80
6:4A:132:LYS:HE2	6:4A:132:LYS:HA	1.63	0.80
6:4B:132:LYS:HE2	6:4B:132:LYS:HA	1.63	0.80
7:5A:1105:TYR:HB3	7:5A:1166:LEU:HB2	1.63	0.80
7:5B:1105:TYR:HB3	7:5B:1166:LEU:HB2	1.63	0.80
9:7A:11:TYR:HD1	9:7B:26:LEU:CD2	1.75	0.80
1:AC:101:ASN:HD22	2:AD:252:LYS:HD2	1.40	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:76:ASP:OD1	2:BD:46:ARG:NH2	2.13	0.80
1:IA:222:PRO:CG	2:IB:324:LYS:HD3	2.12	0.80
1:IA:282:TYR:CG	10:8V:18:UNK:CB	2.65	0.80
2:KF:276:ARG:NH2	6:4D:266:ASN:H	1.79	0.80
1:MC:279:GLU:OE1	6:4A:107:MET:CA	2.28	0.80
6:4C:132:LYS:HE2	6:4C:132:LYS:HA	1.63	0.80
6:4D:132:LYS:HE2	6:4D:132:LYS:HA	1.63	0.80
6:4D:164:ARG:HB3	6:4D:164:ARG:NH1	1.95	0.80
7:5B:1490:LYS:HD3	7:5B:1494:LEU:HB3	1.58	0.80
1:BA:101:ASN:CG	2:BB:252:LYS:HD2	2.03	0.80
1:CA:222:PRO:CG	2:CB:324:LYS:HD3	2.11	0.80
2:CB:177:ASP:OD2	1:CC:248:LEU:HD21	1.80	0.80
2:DD:177:ASP:OD2	1:DE:248:LEU:CD2	2.29	0.80
1:EC:404:PHE:HE2	2:ED:345:ILE:CD1	1.94	0.80
1:FA:404:PHE:HE2	2:FB:345:ILE:CD1	1.94	0.80
2:FB:397:TRP:CD2	1:FC:256:GLN:O	2.05	0.80
1:GA:222:PRO:CG	2:GB:324:LYS:HD3	2.12	0.80
1:HE:101:ASN:HD22	2:HF:252:LYS:CG	1.94	0.80
2:MB:220:PRO:HD2	1:MC:326:LYS:HG2	1.61	0.80
6:4B:164:ARG:HB3	6:4B:164:ARG:NH1	1.95	0.80
7:5B:773:ARG:HD3	7:5B:773:ARG:N	1.94	0.80
2:DD:177:ASP:OD1	1:DE:353:VAL:HG12	1.71	0.80
2:EF:55:THR:CG2	2:FF:284:LEU:H	1.95	0.80
1:GE:101:ASN:HD22	2:GF:252:LYS:CD	1.90	0.80
1:HC:415:GLU:HG2	5:3C:235:LEU:HB3	1.62	0.80
1:KE:85:GLN:NE2	1:LE:282:TYR:CB	2.44	0.80
4:2B:144:ASN:O	4:2B:145:GLN:HG3	1.80	0.80
7:5A:1490:LYS:HD3	7:5A:1494:LEU:HB3	1.58	0.80
7:5C:1495:PHE:HE2	7:5C:1562:LEU:HD22	1.46	0.80
2:AF:40:SER:HB2	6:4A:152:PHE:CD2	2.15	0.80
2:DB:220:PRO:CD	1:DC:326:LYS:HE2	2.12	0.80
2:EB:212:PHE:CE2	1:EC:326:LYS:HD3	2.10	0.80
1:FC:101:ASN:HD21	2:FD:252:LYS:HD2	0.97	0.80
1:GC:89:PRO:CG	1:HC:280:LYS:HD2	2.12	0.80
1:HA:222:PRO:CG	2:HB:324:LYS:HD3	2.12	0.80
1:JA:222:PRO:CG	2:JB:324:LYS:HD3	2.12	0.80
2:KB:273:LEU:CB	6:4A:268:LEU:CD2	2.58	0.80
7:5A:773:ARG:HD3	7:5A:773:ARG:N	1.94	0.80
7:5A:1495:PHE:HE2	7:5A:1562:LEU:HD22	1.46	0.80
7:5B:1544:ILE:HA	7:5B:1573:ARG:CG	2.06	0.80
1:AA:222:PRO:CG	2:AB:324:LYS:HD3	2.12	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:284:LEU:HD12	6:4C:144:LEU:HA	1.63	0.80
1:BE:101:ASN:HD22	2:BF:252:LYS:HG3	1.45	0.80
2:EB:220:PRO:HD2	1:EC:326:LYS:HG2	1.63	0.80
1:FE:207:GLU:OE1	7:5B:915:PHE:CD2	2.34	0.80
2:KF:125:GLU:HG3	2:LF:336:LYS:HZ1	0.97	0.80
1:LA:60:LYS:CD	1:MA:283:HIS:CD2	2.65	0.80
2:MB:78:ALA:CB	6:4A:178:HIS:NE2	2.44	0.80
4:2A:144:ASN:O	4:2A:145:GLN:HG3	1.80	0.80
5:3B:230:ILE:O	5:3B:332:MET:CG	2.28	0.80
7:5C:1126:PRO:CG	8:6C:246:TYR:OH	2.30	0.80
1:BC:222:PRO:CG	2:BD:324:LYS:HD3	2.11	0.80
1:DC:101:ASN:HD22	2:DD:252:LYS:HG3	1.45	0.80
2:ED:177:ASP:OD2	1:EE:248:LEU:CD2	2.29	0.80
1:GE:89:PRO:HD3	1:HE:280:LYS:HZ3	1.44	0.80
1:IC:58:ALA:CB	10:8Z:13:UNK:CB	2.37	0.80
1:IE:60:LYS:HZ2	1:JE:283:HIS:CD2	1.99	0.80
1:LE:89:PRO:CD	1:ME:280:LYS:CE	2.60	0.80
5:3A:230:ILE:O	5:3A:332:MET:CG	2.28	0.80
6:4D:154:LYS:HB2	6:4D:154:LYS:NZ	1.95	0.80
7:5A:1544:ILE:HA	7:5A:1573:ARG:CG	2.06	0.80
7:5B:1495:PHE:HE2	7:5B:1562:LEU:HD22	1.46	0.80
7:5B:1510:ASN:HB3	7:5B:1559:PRO:HD2	1.64	0.80
1:EA:370:LYS:HZ1	10:8J:17:UNK:CB	1.91	0.80
2:EB:157:GLU:OE1	7:5C:935:LYS:HE3	1.81	0.80
1:EE:402:ARG:CD	7:5B:824:ARG:HH22	1.95	0.80
2:FB:55:THR:N	2:GB:283:ALA:HB1	1.97	0.80
2:FD:212:PHE:CE2	1:FE:326:LYS:HD3	2.15	0.80
1:GA:89:PRO:HG3	1:HA:280:LYS:HE3	1.62	0.80
1:KA:124:LYS:HD3	1:LA:290:GLU:HA	1.64	0.80
2:KB:276:ARG:NH2	6:4A:266:ASN:H	1.79	0.80
1:LC:222:PRO:HD2	2:LD:324:LYS:HB3	1.61	0.80
2:LF:231:ALA:CB	6:4D:226:ILE:CD1	2.34	0.80
2:MD:110:ALA:O	3:1B:61:HIS:HB2	1.80	0.80
4:2C:144:ASN:O	4:2C:145:GLN:HG3	1.81	0.80
7:5B:1434:LYS:HA	7:5B:1434:LYS:CE	2.10	0.80
1:DC:402:ARG:HH22	7:5A:782:LEU:HD11	0.72	0.80
1:EA:101:ASN:HD21	2:EB:252:LYS:CD	1.66	0.80
2:FB:331:LEU:HD22	7:5C:915:PHE:CE2	2.16	0.80
1:GE:101:ASN:HD22	2:GF:252:LYS:CG	1.94	0.80
2:KB:276:ARG:NH2	6:4A:265:TYR:CA	2.32	0.80
2:LF:276:ARG:NH1	6:4D:229:GLU:CA	2.30	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:841:VAL:HG21	8:6A:11:PRO:CA	2.10	0.80
7:5A:1434:LYS:HA	7:5A:1434:LYS:CE	2.10	0.80
7:5A:1510:ASN:HB3	7:5A:1559:PRO:HD2	1.64	0.80
7:5C:1401:LYS:HD3	7:5C:1401:LYS:H	1.45	0.80
7:5C:1434:LYS:HA	7:5C:1434:LYS:CE	2.10	0.80
9:7E:11:TYR:HE1	9:7F:26:LEU:HD23	1.47	0.80
1:CC:101:ASN:HD22	2:CD:252:LYS:CD	1.95	0.79
1:FA:402:ARG:NH1	7:5C:1259:TYR:HA	1.96	0.79
1:FC:89:PRO:HA	1:GC:280:LYS:HZ1	1.46	0.79
1:HC:410:GLY:C	5:3C:329:ARG:NH2	2.39	0.79
1:IA:279:GLU:OE2	10:8V:22:UNK:CB	2.30	0.79
1:JC:88:HIS:ND1	1:KC:280:LYS:HD3	1.97	0.79
2:LB:179:VAL:CG2	1:LC:258:ASN:HA	2.12	0.79
1:LC:60:LYS:CG	6:4A:101:ARG:NH1	2.45	0.79
2:LD:55:THR:CG2	2:MD:283:ALA:HB1	2.12	0.79
1:ME:279:GLU:CG	6:4B:110:LYS:CE	2.59	0.79
5:3C:230:ILE:O	5:3C:332:MET:CG	2.28	0.79
6:4A:256:ASN:HD21	6:4A:260:ARG:NE	1.79	0.79
6:4B:256:ASN:HD21	6:4B:260:ARG:NE	1.79	0.79
6:4C:256:ASN:HD21	6:4C:260:ARG:NE	1.79	0.79
7:5A:1401:LYS:HD3	7:5A:1401:LYS:H	1.45	0.79
7:5B:1401:LYS:HD3	7:5B:1401:LYS:H	1.45	0.79
7:5C:773:ARG:HD3	7:5C:773:ARG:N	1.94	0.79
7:5C:1544:ILE:HA	7:5C:1573:ARG:CG	2.06	0.79
2:AD:357:PRO:HD2	6:4C:151:ARG:HD2	1.62	0.79
2:CB:86:ARG:NH1	2:DB:281:TYR:CA	2.44	0.79
1:DA:76:ASP:OD1	2:DB:46:ARG:NH2	2.15	0.79
1:DE:101:ASN:HD22	2:DF:252:LYS:HG3	1.46	0.79
1:FE:282:TYR:CZ	10:8O:18:UNK:CB	2.61	0.79
2:IB:86:ARG:NH1	2:JB:281:TYR:HA	1.97	0.79
1:JE:11:GLN:OE1	2:JF:245:GLN:O	1.99	0.79
1:JE:101:ASN:HD22	2:JF:252:LYS:HD2	1.41	0.79
1:KC:359:PRO:CB	6:4A:299:TYR:CE2	2.65	0.79
2:KD:177:ASP:CG	1:KE:353:VAL:HG13	2.00	0.79
1:KE:101:ASN:HD22	2:KF:252:LYS:CG	1.94	0.79
2:KF:273:LEU:CB	6:4D:268:LEU:HD21	2.11	0.79
1:LA:222:PRO:HD3	2:LB:324:LYS:HD3	1.64	0.79
6:4B:154:LYS:HB2	6:4B:154:LYS:NZ	1.95	0.79
6:4D:252:VAL:CG1	6:4D:292:VAL:HG23	2.12	0.79
6:4D:256:ASN:HD21	6:4D:260:ARG:NE	1.79	0.79
7:5C:1510:ASN:HB3	7:5C:1559:PRO:HD2	1.64	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:101:ASN:CG	2:BF:252:LYS:HD2	2.05	0.79
1:CE:222:PRO:CD	2:CF:324:LYS:HD3	2.10	0.79
2:ED:212:PHE:CE2	1:EE:326:LYS:HD3	2.13	0.79
1:EE:404:PHE:HE2	2:EF:345:ILE:CD1	1.95	0.79
2:HD:362:LYS:NZ	10:8T:36:UNK:O	2.11	0.79
1:HE:415:GLU:HG3	5:3A:235:LEU:CB	2.09	0.79
1:KE:11:GLN:OE1	2:KF:245:GLN:O	1.99	0.79
2:LB:77:ARG:CZ	6:4A:204:ARG:HH21	1.94	0.79
1:LE:89:PRO:CG	1:ME:280:LYS:HZ2	1.95	0.79
1:LE:222:PRO:HG3	2:LF:324:LYS:CD	2.10	0.79
7:5A:874:GLN:HB2	8:6A:59:LYS:HZ3	1.42	0.79
7:5B:1549:THR:CA	7:5B:1566:GLU:OE1	2.13	0.79
1:AE:101:ASN:HD22	2:AF:252:LYS:CG	1.94	0.79
2:DD:178:THR:HG23	1:DE:258:ASN:ND2	1.97	0.79
1:GE:11:GLN:OE1	2:GF:245:GLN:O	1.99	0.79
1:IE:393:HIS:CE1	5:3A:306:ASP:OD1	2.35	0.79
2:JB:55:THR:HG22	2:KB:362:LYS:HZ1	1.41	0.79
1:JE:90:GLU:CG	1:KE:280:LYS:HD2	2.12	0.79
2:JF:86:ARG:CZ	2:KF:280:GLN:CA	2.61	0.79
1:LA:221:ARG:HH11	2:LB:324:LYS:N	1.81	0.79
2:LD:413:SER:HB2	4:2A:171:VAL:CG2	2.12	0.79
2:MB:98:GLY:C	1:MC:254:GLU:HG2	2.06	0.79
6:4B:252:VAL:CG1	6:4B:292:VAL:HG23	2.12	0.79
6:4C:252:VAL:CG1	6:4C:292:VAL:HG23	2.12	0.79
7:5C:832:ASN:OD1	7:5C:832:ASN:N	2.09	0.79
2:BB:177:ASP:O	1:BC:352:LYS:CD	2.26	0.79
2:CB:177:ASP:CG	1:CC:353:VAL:HG11	2.01	0.79
1:EC:393:HIS:CE1	7:5A:814:LYS:HG3	2.16	0.79
2:FD:212:PHE:CZ	1:FE:326:LYS:CD	2.31	0.79
2:LB:331:LEU:HD11	4:2C:42:PHE:CE1	2.17	0.79
2:LD:212:PHE:HZ	1:LE:326:LYS:HD3	0.62	0.79
1:ME:101:ASN:HD21	2:MF:252:LYS:HD2	0.96	0.79
1:ME:279:GLU:OE1	6:4B:107:MET:CA	2.31	0.79
6:4A:252:VAL:CG1	6:4A:292:VAL:HG23	2.12	0.79
7:5B:773:ARG:C	7:5B:775:PRO:HD3	2.07	0.79
7:5B:836:ARG:HH11	7:5B:836:ARG:HB3	1.44	0.79
1:AC:342:GLN:NE2	3:1C:55:HIS:CG	2.36	0.79
2:CD:220:PRO:O	1:CE:324:VAL:HG13	1.82	0.79
2:EB:55:THR:CG2	2:FB:284:LEU:H	1.95	0.79
1:HE:11:GLN:OE1	2:HF:245:GLN:O	1.99	0.79
1:HE:159:VAL:HG22	5:3A:209:ARG:HH21	1.46	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:402:ARG:HE	7:5C:1417:GLN:HG3	1.46	0.79
1:IE:11:GLN:OE1	2:IF:245:GLN:O	1.99	0.79
2:JF:86:ARG:NH1	2:KF:280:GLN:O	2.16	0.79
1:KC:62:VAL:CG2	1:LC:285:GLN:CB	2.51	0.79
1:KC:90:GLU:N	1:LC:284:GLU:OE1	2.15	0.79
1:LA:401:LYS:NZ	2:LB:344:TRP:CZ2	2.51	0.79
2:LB:55:THR:HG21	2:MB:283:ALA:HA	1.59	0.79
2:LD:177:ASP:OD2	1:LE:353:VAL:HG13	1.83	0.79
1:LE:60:LYS:NZ	1:ME:283:HIS:ND1	2.31	0.79
2:MF:78:ALA:HB3	6:4D:178:HIS:NE2	1.98	0.79
6:4D:252:VAL:CG1	6:4D:292:VAL:CG2	2.61	0.79
7:5C:1491:LEU:HD21	7:5C:1495:PHE:CE1	2.17	0.79
2:AD:40:SER:HB3	6:4C:152:PHE:HD2	1.45	0.79
2:AD:284:LEU:HD11	6:4C:144:LEU:HD11	1.62	0.79
1:AE:11:GLN:OE1	2:AF:245:GLN:O	1.99	0.79
2:BF:87:PRO:HD2	2:CF:281:TYR:CZ	2.17	0.79
2:DB:397:TRP:HE3	1:DC:257:THR:HG22	1.42	0.79
1:FA:101:ASN:HD22	2:FB:252:LYS:HD2	1.46	0.79
1:FA:101:ASN:CG	2:FB:252:LYS:HD2	2.04	0.79
2:GD:83:GLN:O	2:HD:281:TYR:OH	2.00	0.79
2:KF:86:ARG:HH12	2:LF:283:ALA:CA	1.96	0.79
6:4A:154:LYS:HB2	6:4A:154:LYS:NZ	1.95	0.79
7:5A:773:ARG:C	7:5A:775:PRO:HD3	2.07	0.79
7:5A:1491:LEU:HD21	7:5A:1495:PHE:CE1	2.17	0.79
9:7B:18:VAL:HG12	9:7B:42:LEU:CD2	2.13	0.79
1:AE:101:ASN:HD22	2:AF:252:LYS:HD2	1.41	0.79
1:BE:101:ASN:ND2	2:BF:252:LYS:CG	2.46	0.79
1:DA:222:PRO:CD	2:DB:324:LYS:HD3	2.12	0.79
1:EE:11:GLN:OE1	2:EF:245:GLN:O	2.01	0.79
1:IA:282:TYR:CD1	10:8V:18:UNK:CB	2.65	0.79
1:IA:282:TYR:HB3	10:8V:15:UNK:CB	2.13	0.79
1:IE:402:ARG:HH22	7:5B:1418:GLN:HA	1.48	0.79
2:JB:86:ARG:CZ	2:KB:280:GLN:HB3	2.11	0.79
1:JC:11:GLN:OE1	2:JD:245:GLN:O	2.00	0.79
2:KD:82:GLY:O	2:LD:281:TYR:HE1	1.64	0.79
2:KD:273:LEU:HA	6:4B:268:LEU:CG	2.12	0.79
1:LA:60:LYS:CE	6:4C:101:ARG:NH1	2.45	0.79
1:LE:401:LYS:NZ	2:LF:344:TRP:CZ2	2.51	0.79
2:LF:306:ARG:NH1	4:2B:151:VAL:CG2	2.46	0.79
5:3B:229:PHE:CD2	5:3B:331:GLN:HB3	2.16	0.79
6:4B:252:VAL:CG1	6:4B:292:VAL:CG2	2.61	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:836:ARG:HH11	7:5A:836:ARG:HB3	1.44	0.79
7:5A:1381:ILE:H	7:5A:1381:ILE:CD1	1.96	0.79
7:5A:1549:THR:CA	7:5A:1566:GLU:OE1	2.13	0.79
7:5B:1381:ILE:H	7:5B:1381:ILE:CD1	1.96	0.79
7:5B:1491:LEU:HD21	7:5B:1495:PHE:CE1	2.17	0.79
9:7C:35:ILE:HG23	9:7D:42:LEU:O	1.83	0.79
2:CF:86:ARG:NH1	2:DF:281:TYR:CA	2.35	0.79
1:DE:400:ALA:C	7:5B:775:PRO:HB3	2.08	0.79
2:GF:416:ASN:CG	7:5B:1327:LYS:NZ	2.41	0.79
1:HC:278:ALA:HB3	10:8T:22:UNK:CA	2.13	0.79
1:LE:60:LYS:CD	1:ME:283:HIS:CD2	2.66	0.79
7:5B:1515:GLU:OE1	7:5B:1563:SER:CB	2.31	0.79
7:5C:773:ARG:C	7:5C:775:PRO:HD3	2.07	0.79
7:5C:1267:CYS:SG	9:7E:8:ARG:CG	2.71	0.79
7:5C:1381:ILE:H	7:5C:1381:ILE:CD1	1.96	0.79
1:EE:396:ASP:CG	7:5B:821:LEU:HD11	2.07	0.79
1:FC:101:ASN:CG	2:FD:252:LYS:HD2	2.05	0.79
2:GB:86:ARG:NH2	2:HB:281:TYR:CZ	2.35	0.79
1:LA:11:GLN:NE2	2:LB:247:ASN:OD1	2.15	0.79
1:LA:89:PRO:CD	1:MA:280:LYS:CE	2.61	0.79
2:LB:77:ARG:HH11	6:4A:204:ARG:NH2	1.80	0.79
6:4C:154:LYS:NZ	6:4C:154:LYS:HB2	1.95	0.79
6:4C:266:ASN:HB2	6:4C:273:ARG:HH11	1.47	0.79
7:5C:836:ARG:HH11	7:5C:836:ARG:HB3	1.44	0.79
2:ED:55:THR:CG2	2:FD:283:ALA:HA	2.06	0.78
2:EF:125:GLU:CB	7:5B:903:PHE:HE2	1.80	0.78
1:FE:177:VAL:HG21	7:5B:915:PHE:HE2	1.42	0.78
1:KA:222:PRO:CG	2:KB:324:LYS:HD3	2.12	0.78
1:KC:11:GLN:OE1	2:KD:245:GLN:O	2.00	0.78
2:LD:177:ASP:OD1	1:LE:353:VAL:HG12	1.77	0.78
1:MA:101:ASN:HD21	2:MB:252:LYS:CD	1.67	0.78
1:MA:404:PHE:HE2	2:MB:345:ILE:CD1	1.96	0.78
1:ME:279:GLU:HB3	6:4B:110:LYS:HE3	1.63	0.78
6:4A:252:VAL:CG1	6:4A:292:VAL:CG2	2.61	0.78
6:4A:266:ASN:HB2	6:4A:273:ARG:HH11	1.47	0.78
6:4B:251:TYR:CE2	6:4B:280:VAL:CG1	2.66	0.78
6:4D:251:TYR:CE2	6:4D:280:VAL:CG1	2.66	0.78
7:5B:1489:PHE:O	7:5B:1493:GLN:N	2.15	0.78
7:5C:1424:GLN:NE2	7:5C:1424:GLN:O	2.16	0.78
2:AB:55:THR:HG23	2:BB:283:ALA:HB2	1.63	0.78
1:DA:282:TYR:CD2	10:8G:18:UNK:CB	2.66	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:402:ARG:CZ	7:5C:824:ARG:HH22	1.96	0.78
1:FA:419:SER:CB	7:5C:1256:ARG:CZ	2.59	0.78
2:FD:55:THR:HG21	2:GD:284:LEU:N	1.93	0.78
2:FD:177:ASP:OD2	1:FE:248:LEU:HD21	1.81	0.78
1:HC:11:GLN:OE1	2:HD:245:GLN:O	2.00	0.78
1:HE:416:GLY:HA2	5:3A:238:ILE:HD11	1.64	0.78
5:3A:229:PHE:CD2	5:3A:331:GLN:HB3	2.16	0.78
6:4B:266:ASN:HB2	6:4B:273:ARG:HH11	1.47	0.78
6:4C:252:VAL:CG1	6:4C:292:VAL:CG2	2.61	0.78
7:5A:1284:PHE:CE1	9:7A:12:GLU:HB2	2.18	0.78
7:5A:1424:GLN:O	7:5A:1424:GLN:NE2	2.16	0.78
7:5A:1515:GLU:OE1	7:5A:1563:SER:CB	2.31	0.78
7:5B:1152:GLU:CD	8:6B:66:ARG:NH1	2.42	0.78
7:5C:1549:THR:CA	7:5C:1566:GLU:OE1	2.13	0.78
9:7A:35:ILE:HG23	9:7B:42:LEU:O	1.83	0.78
1:CC:101:ASN:HD22	2:CD:252:LYS:CG	1.95	0.78
1:CC:101:ASN:CG	2:CD:252:LYS:HD2	2.04	0.78
1:GC:56:THR:OG1	1:HC:284:GLU:CA	2.31	0.78
1:IA:282:TYR:CG	10:8V:15:UNK:CA	2.67	0.78
2:JB:86:ARG:NH1	2:KB:280:GLN:HB3	1.98	0.78
1:JC:88:HIS:CE1	1:KC:280:LYS:C	2.61	0.78
1:LA:222:PRO:HD2	2:LB:324:LYS:HB3	1.64	0.78
2:LB:224:ASP:HA	6:4A:219:ASN:OD1	1.82	0.78
7:5A:1489:PHE:O	7:5A:1493:GLN:N	2.15	0.78
7:5B:841:VAL:N	8:6B:109:ILE:HD11	1.98	0.78
7:5C:1524:PHE:HD1	7:5C:1567:PHE:HZ	1.24	0.78
1:AC:11:GLN:OE1	2:AD:245:GLN:O	2.00	0.78
1:BE:222:PRO:CG	2:BF:324:LYS:HD3	2.13	0.78
2:DB:212:PHE:CZ	1:DC:326:LYS:CD	2.20	0.78
1:DC:402:ARG:CD	7:5A:777:ALA:CB	2.62	0.78
2:DD:179:VAL:CG2	1:DE:258:ASN:HA	2.14	0.78
1:EE:101:ASN:HD21	2:EF:252:LYS:HD2	0.96	0.78
1:IC:11:GLN:OE1	2:ID:245:GLN:O	2.00	0.78
1:LA:60:LYS:HD3	1:MA:283:HIS:CG	2.18	0.78
6:4A:251:TYR:CE2	6:4A:280:VAL:CG1	2.66	0.78
6:4D:266:ASN:HB2	6:4D:273:ARG:HH11	1.48	0.78
7:5B:1424:GLN:O	7:5B:1424:GLN:NE2	2.16	0.78
7:5C:1489:PHE:O	7:5C:1493:GLN:N	2.15	0.78
7:5C:1573:ARG:O	7:5C:1577:LYS:N	2.17	0.78
9:7D:18:VAL:HG12	9:7D:42:LEU:CD2	2.13	0.78
2:AF:280:GLN:NE2	6:4A:141:LYS:HB3	1.99	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:98:GLY:C	1:CC:254:GLU:HG2	2.08	0.78
1:EE:222:PRO:CD	2:EF:324:LYS:HD3	2.12	0.78
1:FC:60:LYS:HD2	1:GC:283:HIS:CD2	2.19	0.78
1:IC:389:SER:HB3	5:3C:307:LYS:HD3	1.64	0.78
1:IE:60:LYS:NZ	1:JE:283:HIS:CD2	2.51	0.78
1:JE:222:PRO:CG	2:JF:324:LYS:HD3	2.14	0.78
2:KD:82:GLY:O	2:LD:281:TYR:CE1	2.36	0.78
2:KD:125:GLU:HG2	2:LD:336:LYS:HZ1	1.47	0.78
2:KF:221:THR:HG21	6:4D:262:ASN:N	1.97	0.78
7:5A:1573:ARG:O	7:5A:1577:LYS:N	2.17	0.78
7:5B:1416:LYS:HA	7:5B:1416:LYS:NZ	1.98	0.78
7:5C:1515:GLU:OE1	7:5C:1563:SER:CB	2.31	0.78
9:7C:11:TYR:OH	9:7D:27:GLY:N	2.16	0.78
2:FB:177:ASP:OD2	1:FC:248:LEU:HD21	1.81	0.78
2:FD:55:THR:H	2:GD:283:ALA:HA	1.46	0.78
2:GB:55:THR:CG2	2:HB:283:ALA:C	2.56	0.78
1:GE:402:ARG:HD2	5:3A:381:ASN:CG	2.09	0.78
1:IE:222:PRO:CG	2:IF:324:LYS:HD3	2.14	0.78
1:KA:11:GLN:OE1	2:KB:245:GLN:O	2.01	0.78
1:KA:85:GLN:NE2	1:LA:282:TYR:HB2	1.91	0.78
1:LC:224:TYR:HE2	2:LD:246:LEU:HD11	1.48	0.78
2:MD:220:PRO:HD2	1:ME:326:LYS:HG2	1.64	0.78
5:3C:229:PHE:CD2	5:3C:331:GLN:HB3	2.16	0.78
7:5B:1524:PHE:HD1	7:5B:1567:PHE:HZ	1.24	0.78
7:5C:1152:GLU:CD	8:6C:66:ARG:NH1	2.41	0.78
9:7F:18:VAL:HG12	9:7F:42:LEU:CD2	2.13	0.78
2:BF:86:ARG:HE	2:BF:87:PRO:HD2	1.49	0.78
1:DE:76:ASP:OD1	2:DF:46:ARG:NH2	2.16	0.78
2:ED:85:PHE:O	2:FD:281:TYR:OH	1.98	0.78
1:FC:419:SER:HB3	7:5A:1256:ARG:HG2	1.65	0.78
1:GC:11:GLN:OE1	2:GD:245:GLN:O	2.00	0.78
1:GE:60:LYS:CD	1:HE:283:HIS:CG	2.67	0.78
1:GE:409:VAL:CG2	5:3A:383:GLU:OE1	2.31	0.78
2:GF:58:ARG:CZ	2:HF:281:TYR:CZ	2.67	0.78
2:KF:125:GLU:HG3	2:LF:336:LYS:HE2	1.62	0.78
2:LB:310:TYR:CE2	4:2C:147:PHE:CZ	2.72	0.78
6:4C:251:TYR:CE2	6:4C:280:VAL:CG1	2.66	0.78
7:5A:841:VAL:CG1	8:6A:9:LEU:HD23	2.12	0.78
7:5A:1521:PHE:HE2	7:5A:1571:MET:HG2	1.48	0.78
7:5A:1524:PHE:HD1	7:5A:1567:PHE:HZ	1.24	0.78
7:5B:1573:ARG:O	7:5B:1577:LYS:N	2.17	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:829:GLY:CA	8:6C:109:ILE:CG2	2.62	0.78
7:5C:1521:PHE:HE2	7:5C:1571:MET:HG2	1.48	0.78
2:AF:280:GLN:HA	6:4A:142:SER:HB3	1.64	0.78
2:CD:177:ASP:OD1	1:CE:353:VAL:HG12	1.78	0.78
2:DD:86:ARG:CB	2:ED:281:TYR:CE1	2.66	0.78
2:DF:86:ARG:HE	2:DF:87:PRO:HD2	1.49	0.78
1:GC:60:LYS:HD3	1:HC:283:HIS:CG	2.19	0.78
1:GC:89:PRO:HG3	1:HC:280:LYS:HD2	1.66	0.78
1:IA:11:GLN:OE1	2:IB:245:GLN:O	2.01	0.78
2:IB:220:PRO:HD2	1:IC:326:LYS:HE2	1.66	0.78
1:JA:11:GLN:OE1	2:JB:245:GLN:O	2.01	0.78
1:KE:222:PRO:CG	2:KF:324:LYS:HD3	2.14	0.78
2:LF:55:THR:HG23	2:MF:283:ALA:HA	0.78	0.78
1:MA:282:TYR:CD2	6:4C:104:ARG:CD	2.56	0.78
7:5B:1521:PHE:HE2	7:5B:1571:MET:HG2	1.48	0.78
7:5C:1515:GLU:HG2	7:5C:1563:SER:CA	2.12	0.78
9:7C:42:LEU:HD12	9:7D:39:GLY:CA	2.11	0.78
9:7D:18:VAL:CG1	9:7D:42:LEU:CD2	2.62	0.78
2:AB:86:ARG:HE	2:AB:87:PRO:HD2	1.49	0.78
2:AD:86:ARG:HE	2:AD:87:PRO:HD2	1.49	0.78
2:AF:86:ARG:HE	2:AF:87:PRO:HD2	1.49	0.78
2:BB:179:VAL:CG2	1:BC:258:ASN:HA	2.14	0.78
2:BD:86:ARG:HE	2:BD:87:PRO:HD2	1.49	0.78
2:CB:86:ARG:HE	2:CB:87:PRO:HD2	1.49	0.78
2:CD:86:ARG:HE	2:CD:87:PRO:HD2	1.49	0.78
1:CE:101:ASN:HD22	2:CF:252:LYS:CD	1.97	0.78
2:DB:86:ARG:HE	2:DB:87:PRO:HD2	1.49	0.78
2:DD:86:ARG:HE	2:DD:87:PRO:HD2	1.49	0.78
1:FA:71:GLU:CD	2:FB:247:ASN:ND2	2.42	0.78
1:FA:282:TYR:CZ	10:8M:18:UNK:CB	2.66	0.78
1:FA:402:ARG:CD	7:5C:1259:TYR:HD2	1.96	0.78
1:FE:101:ASN:HD21	2:FF:252:LYS:HD2	0.96	0.78
1:GE:60:LYS:CD	1:HE:283:HIS:CB	2.60	0.78
1:HE:222:PRO:CG	2:HF:324:LYS:HD3	2.14	0.78
1:MA:279:GLU:OE2	6:4C:106:ALA:CB	2.32	0.78
7:5A:1416:LYS:HA	7:5A:1416:LYS:NZ	1.99	0.78
7:5A:1515:GLU:HG2	7:5A:1563:SER:CA	2.12	0.78
7:5C:927:ILE:HG12	7:5C:952:VAL:HG11	1.65	0.78
2:BB:86:ARG:HE	2:BB:87:PRO:HD2	1.49	0.78
2:CD:98:GLY:C	1:CE:254:GLU:HG2	2.08	0.78
2:CF:86:ARG:HE	2:CF:87:PRO:HD2	1.49	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DC:76:ASP:OD1	2:DD:46:ARG:NH2	2.16	0.78
1:DE:101:ASN:ND2	2:DF:252:LYS:CG	2.47	0.78
1:EA:11:GLN:OE1	2:EB:245:GLN:O	2.02	0.78
2:ED:86:ARG:HE	2:ED:87:PRO:HD2	1.49	0.78
1:FC:101:ASN:ND2	2:FD:252:LYS:CG	2.46	0.78
2:FD:86:ARG:HE	2:FD:87:PRO:HD2	1.49	0.78
2:GB:220:PRO:HD2	1:GC:326:LYS:HE2	1.66	0.78
2:GD:86:ARG:HE	2:GD:87:PRO:HD2	1.49	0.78
2:GF:86:ARG:HE	2:GF:87:PRO:HD2	1.49	0.78
1:HE:282:TYR:CE1	10:8U:15:UNK:HA	2.18	0.78
1:KC:85:GLN:HA	1:LC:283:HIS:CD2	2.17	0.78
7:5B:1515:GLU:HG2	7:5B:1563:SER:CA	2.12	0.78
9:7F:18:VAL:CG1	9:7F:42:LEU:CD2	2.62	0.78
1:AE:222:PRO:CG	2:AF:324:LYS:HD3	2.14	0.77
2:BD:177:ASP:CG	1:BE:353:VAL:HG13	1.98	0.77
2:EB:86:ARG:HE	2:EB:87:PRO:HD2	1.49	0.77
2:FB:86:ARG:HE	2:FB:87:PRO:HD2	1.49	0.77
2:FF:86:ARG:HE	2:FF:87:PRO:HD2	1.49	0.77
2:GB:86:ARG:HE	2:GB:87:PRO:HD2	1.49	0.77
1:HA:11:GLN:OE1	2:HB:245:GLN:O	2.01	0.77
1:HE:282:TYR:CD1	10:8U:15:UNK:HA	2.19	0.77
2:ID:86:ARG:CA	2:JD:281:TYR:HE1	1.97	0.77
1:JE:279:GLU:OE1	10:9A:22:UNK:HA	1.83	0.77
2:KD:118:ASP:CG	4:2A:148:ASN:ND2	2.36	0.77
1:LC:222:PRO:HD2	2:LD:324:LYS:CD	2.11	0.77
1:LE:60:LYS:HD3	1:ME:283:HIS:CG	2.19	0.77
7:5A:927:ILE:HG12	7:5A:952:VAL:HG11	1.65	0.77
7:5B:839:GLU:CD	8:6B:109:ILE:HG13	2.09	0.77
7:5B:1430:GLN:HA	7:5B:1430:GLN:OE1	1.84	0.77
9:7B:18:VAL:CG1	9:7B:42:LEU:CD2	2.62	0.77
1:BC:101:ASN:HD22	2:BD:252:LYS:CG	1.95	0.77
2:CD:177:ASP:OD2	1:CE:248:LEU:HD21	1.83	0.77
1:CE:101:ASN:HD22	2:CF:252:LYS:CG	1.96	0.77
1:EE:101:ASN:CG	2:EF:252:LYS:HD2	2.07	0.77
2:EF:86:ARG:HE	2:EF:87:PRO:HD2	1.50	0.77
2:FB:55:THR:CB	2:GB:283:ALA:HA	2.15	0.77
1:GE:60:LYS:HZ2	1:HE:283:HIS:CG	2.03	0.77
2:HF:86:ARG:HA	2:IF:281:TYR:CE1	2.19	0.77
2:LB:306:ARG:HH21	4:2C:149:ILE:CG2	1.97	0.77
2:LD:231:ALA:HB2	6:4B:226:ILE:HD13	0.78	0.77
1:MC:279:GLU:CB	6:4A:110:LYS:CE	2.62	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:927:ILE:HG12	7:5B:952:VAL:HG11	1.65	0.77
7:5C:1416:LYS:HA	7:5C:1416:LYS:NZ	1.99	0.77
1:CA:101:ASN:HD22	2:CB:252:LYS:CD	1.98	0.77
1:CE:101:ASN:CG	2:CF:252:LYS:HD2	2.05	0.77
1:DA:222:PRO:CG	2:DB:324:LYS:HD3	2.14	0.77
2:DB:177:ASP:OD2	1:DC:248:LEU:HD21	1.84	0.77
1:EE:402:ARG:CZ	7:5B:824:ARG:HH22	1.96	0.77
1:GA:11:GLN:OE1	2:GB:245:GLN:O	2.01	0.77
1:IC:278:ALA:HB1	10:8W:18:UNK:C	2.09	0.77
1:KA:85:GLN:C	1:LA:283:HIS:CA	2.55	0.77
1:LE:60:LYS:HD2	6:4B:101:ARG:HH22	0.71	0.77
2:LF:416:ASN:O	4:2B:168:LEU:HD13	1.43	0.77
2:MB:177:ASP:CG	1:MC:353:VAL:HG11	2.07	0.77
7:5A:1105:TYR:HB2	7:5A:1166:LEU:N	1.99	0.77
7:5B:1105:TYR:HB2	7:5B:1166:LEU:N	1.99	0.77
9:7A:11:TYR:OH	9:7B:27:GLY:N	2.16	0.77
1:DE:402:ARG:CD	7:5B:777:ALA:CB	2.61	0.77
2:ED:177:ASP:O	1:EE:352:LYS:HA	1.84	0.77
1:EE:101:ASN:ND2	2:EF:252:LYS:CG	2.47	0.77
1:FC:423:GLU:CD	7:5A:1256:ARG:HH22	1.91	0.77
1:FE:101:ASN:HD22	2:FF:252:LYS:HG3	1.47	0.77
1:GE:222:PRO:CG	2:GF:324:LYS:HD3	2.14	0.77
1:HE:415:GLU:HG2	5:3A:235:LEU:HB3	1.65	0.77
1:JC:282:TYR:OH	10:8Z:17:UNK:C	2.31	0.77
1:JE:124:LYS:CD	1:KE:284:GLU:OE1	2.32	0.77
1:KC:359:PRO:HB3	6:4A:299:TYR:HE2	1.44	0.77
2:LF:55:THR:CB	2:MF:283:ALA:HA	2.14	0.77
7:5A:1430:GLN:OE1	7:5A:1430:GLN:HA	1.84	0.77
7:5C:1105:TYR:HB2	7:5C:1166:LEU:N	1.99	0.77
9:7E:7:LEU:HD22	9:7F:27:GLY:HA2	1.52	0.77
9:7E:7:LEU:HD21	9:7F:27:GLY:C	2.09	0.77
2:CB:212:PHE:CZ	1:CC:326:LYS:CD	2.19	0.77
1:DC:101:ASN:ND2	2:DD:252:LYS:CG	2.47	0.77
1:GE:370:LYS:HE3	10:8R:18:UNK:N	1.98	0.77
1:HC:415:GLU:CG	5:3C:235:LEU:HB3	2.12	0.77
2:KF:217:LEU:CD2	6:4D:263:CYS:SG	2.67	0.77
2:MB:86:ARG:HE	2:MB:87:PRO:HD2	1.49	0.77
4:2A:16:GLN:C	4:2A:19:MET:HB2	2.08	0.77
4:2B:16:GLN:C	4:2B:19:MET:HB2	2.08	0.77
4:2C:16:GLN:C	4:2C:19:MET:HB2	2.08	0.77
5:3B:230:ILE:CG2	5:3B:332:MET:SD	2.73	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1355:GLN:O	7:5B:1358:LYS:HG3	1.83	0.77
9:7A:42:LEU:HD12	9:7B:39:GLY:CA	2.11	0.77
1:AA:11:GLN:OE1	2:AB:245:GLN:O	2.01	0.77
2:AF:227:HIS:HE1	6:4A:135:LEU:HD12	1.48	0.77
1:IA:402:ARG:HH22	7:5C:1418:GLN:CA	1.97	0.77
1:LC:89:PRO:CG	1:MC:280:LYS:NZ	2.48	0.77
2:MD:86:ARG:HE	2:MD:87:PRO:HD2	1.49	0.77
2:MF:86:ARG:HE	2:MF:87:PRO:HD2	1.49	0.77
5:3A:230:ILE:CG2	5:3A:332:MET:SD	2.73	0.77
6:4A:163:GLN:HA	6:4A:163:GLN:OE1	1.82	0.77
7:5C:1253:ILE:HD11	9:7F:20:LEU:HD13	1.67	0.77
7:5C:1266:TYR:CA	7:5C:1269:ASP:OD2	2.24	0.77
2:CD:87:PRO:CD	2:DD:281:TYR:CZ	2.68	0.77
1:DA:101:ASN:HD22	2:DB:252:LYS:CD	1.96	0.77
1:DA:414:GLU:OE2	7:5C:789:LYS:CE	2.32	0.77
2:GF:58:ARG:NH2	2:HF:281:TYR:CE1	2.53	0.77
1:HC:11:GLN:NE2	2:HD:247:ASN:OD1	2.18	0.77
2:JB:86:ARG:HE	2:JB:87:PRO:HD2	1.49	0.77
2:JD:86:ARG:HE	2:JD:87:PRO:HD2	1.49	0.77
2:KD:125:GLU:CG	2:LD:336:LYS:HZ3	1.65	0.77
2:KF:276:ARG:NH1	6:4D:271:GLU:C	2.42	0.77
2:LF:379:LYS:HZ1	4:2B:166:ILE:HB	1.47	0.77
6:4B:163:GLN:HA	6:4B:163:GLN:OE1	1.82	0.77
6:4D:163:GLN:HA	6:4D:163:GLN:OE1	1.82	0.77
7:5A:842:LEU:HD23	7:5A:843:LEU:HD22	1.65	0.77
7:5C:1430:GLN:HA	7:5C:1430:GLN:OE1	1.84	0.77
2:BB:177:ASP:CG	1:BC:353:VAL:HG13	1.99	0.77
1:DE:222:PRO:CG	2:DF:324:LYS:HD3	2.15	0.77
1:GC:11:GLN:NE2	2:GD:247:ASN:OD1	2.18	0.77
2:HF:86:ARG:HE	2:HF:87:PRO:HD2	1.49	0.77
2:ID:220:PRO:HD2	1:IE:326:LYS:HE2	1.67	0.77
2:JF:86:ARG:HE	2:JF:87:PRO:HD2	1.49	0.77
2:LB:331:LEU:CD1	4:2C:42:PHE:CE1	2.67	0.77
1:LC:60:LYS:HD3	1:MC:283:HIS:CG	2.19	0.77
5:3C:230:ILE:CG2	5:3C:332:MET:SD	2.73	0.77
6:4D:151:ARG:HG2	6:4D:151:ARG:NH1	1.94	0.77
7:5A:1355:GLN:O	7:5A:1358:LYS:HG3	1.83	0.77
7:5B:842:LEU:HD23	7:5B:843:LEU:HD22	1.65	0.77
9:7A:39:GLY:CA	9:7B:43:LEU:HD21	2.14	0.77
2:BD:220:PRO:O	1:BE:324:VAL:HG13	1.84	0.77
2:CF:87:PRO:HD2	2:DF:281:TYR:CD2	2.20	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DE:222:PRO:CD	2:DF:324:LYS:HD3	2.15	0.77
1:EC:396:ASP:OD1	7:5A:821:LEU:HD11	1.83	0.77
2:GD:220:PRO:HD2	1:GE:326:LYS:HE2	1.67	0.77
2:HD:86:ARG:HE	2:HD:87:PRO:HD2	1.49	0.77
2:LB:212:PHE:CZ	1:LC:326:LYS:CD	2.18	0.77
2:LD:274:THR:O	6:4B:228:LEU:HD22	1.83	0.77
2:LF:270:PHE:CE2	6:4D:226:ILE:HG23	2.20	0.77
6:4C:163:GLN:HA	6:4C:163:GLN:OE1	1.82	0.77
7:5C:842:LEU:HD23	7:5C:843:LEU:HD22	1.65	0.77
2:BB:220:PRO:HD2	1:BC:326:LYS:HE2	1.67	0.77
2:LD:340:TYR:CD1	4:2A:147:PHE:CA	2.68	0.77
1:MA:279:GLU:OE1	6:4C:106:ALA:C	2.28	0.77
5:3B:229:PHE:CD2	5:3B:331:GLN:CB	2.68	0.77
9:7C:39:GLY:CA	9:7D:43:LEU:HD21	2.14	0.77
2:AF:223:GLY:O	6:4A:131:VAL:N	2.03	0.76
1:CA:222:PRO:CD	2:CB:324:LYS:HD3	2.13	0.76
1:DA:101:ASN:CG	2:DB:252:LYS:HD2	2.06	0.76
2:ED:177:ASP:O	1:EE:352:LYS:CD	2.31	0.76
2:ED:178:THR:HG23	1:EE:258:ASN:ND2	1.99	0.76
1:FA:56:THR:O	1:GA:285:GLN:CA	2.32	0.76
1:FA:101:ASN:ND2	2:FB:252:LYS:CG	2.48	0.76
1:FA:419:SER:HB3	7:5C:1256:ARG:HG2	1.67	0.76
2:HB:86:ARG:HE	2:HB:87:PRO:HD2	1.49	0.76
1:IC:402:ARG:CZ	7:5A:1417:GLN:CG	2.51	0.76
2:JD:220:PRO:HD2	1:JE:326:LYS:HG2	1.67	0.76
2:KD:276:ARG:HH21	6:4B:265:TYR:CB	1.97	0.76
2:LD:310:TYR:HE2	4:2A:147:PHE:CZ	2.03	0.76
2:MB:110:ALA:O	3:1A:61:HIS:HB2	1.82	0.76
6:4B:151:ARG:HG2	6:4B:151:ARG:NH1	1.94	0.76
7:5A:1266:TYR:CA	7:5A:1269:ASP:OD2	2.24	0.76
7:5B:1275:ILE:HD13	9:7D:11:TYR:OH	1.85	0.76
7:5C:1355:GLN:O	7:5C:1358:LYS:HG3	1.83	0.76
9:7C:15:VAL:HG12	9:7D:35:ILE:CA	2.15	0.76
2:AD:55:THR:HG23	2:BD:283:ALA:HB2	1.65	0.76
2:AD:220:PRO:HD2	1:AE:326:LYS:HG2	1.67	0.76
2:AF:361:LEU:CD2	6:4A:144:LEU:HD12	2.15	0.76
1:BA:101:ASN:HD22	2:BB:252:LYS:CG	1.96	0.76
2:BD:212:PHE:CZ	1:BE:326:LYS:CD	2.23	0.76
2:KD:220:PRO:HD2	1:KE:326:LYS:HG2	1.67	0.76
5:3A:229:PHE:CD2	5:3A:331:GLN:CB	2.68	0.76
2:BB:177:ASP:OD1	1:BC:353:VAL:HG12	1.77	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:87:PRO:HD2	2:DF:281:TYR:CZ	2.19	0.76
1:GA:56:THR:OG1	1:HA:284:GLU:HA	1.84	0.76
1:GE:71:GLU:OE1	2:GF:247:ASN:ND2	2.18	0.76
1:IC:11:GLN:NE2	2:ID:247:ASN:OD1	2.18	0.76
1:JA:89:PRO:N	1:KA:283:HIS:CE1	2.35	0.76
1:JE:87:PHE:O	1:KE:283:HIS:NE2	2.16	0.76
2:KB:220:PRO:HD2	1:KC:326:LYS:HE2	1.66	0.76
1:KC:11:GLN:NE2	2:KD:247:ASN:OD1	2.18	0.76
2:KD:125:GLU:HG3	2:LD:336:LYS:HE2	1.62	0.76
1:ME:222:PRO:CG	2:MF:324:LYS:HD3	2.14	0.76
7:5A:1475:PHE:CZ	7:5A:1565:GLU:CD	2.63	0.76
7:5B:1245:GLY:C	9:7D:12:GLU:CD	2.52	0.76
7:5B:1475:PHE:CZ	7:5B:1565:GLU:CD	2.63	0.76
7:5C:1105:TYR:HB2	7:5C:1166:LEU:H	1.49	0.76
7:5C:1475:PHE:CZ	7:5C:1565:GLU:CD	2.63	0.76
1:AE:71:GLU:OE1	2:AF:247:ASN:ND2	2.18	0.76
1:CA:101:ASN:HD22	2:CB:252:LYS:CG	1.97	0.76
2:EB:208:TYR:OH	1:EC:325:PRO:HB2	1.85	0.76
2:FF:106:TYR:O	7:5B:1298:LYS:CE	2.33	0.76
2:GB:55:THR:HG21	2:HB:284:LEU:N	2.00	0.76
2:HD:261:PRO:CG	5:3C:337:ARG:HH21	1.99	0.76
4:2A:16:GLN:O	4:2A:19:MET:C	2.28	0.76
4:2B:16:GLN:O	4:2B:19:MET:C	2.28	0.76
1:AC:11:GLN:NE2	2:AD:247:ASN:OD1	2.18	0.76
2:CB:397:TRP:CE3	1:CC:257:THR:HG23	2.20	0.76
2:CD:87:PRO:HD2	2:DD:281:TYR:CD2	2.20	0.76
2:CD:212:PHE:CZ	1:CE:326:LYS:CD	2.22	0.76
1:FA:101:ASN:HD22	2:FB:252:LYS:CG	1.98	0.76
1:FE:402:ARG:CD	7:5B:1259:TYR:CD2	2.67	0.76
2:HB:220:PRO:HD2	1:HC:326:LYS:HE2	1.66	0.76
2:HD:220:PRO:HD2	1:HE:326:LYS:HG2	1.68	0.76
2:KB:86:ARG:HE	2:KB:87:PRO:HD2	1.49	0.76
2:KD:86:ARG:HE	2:KD:87:PRO:HD2	1.49	0.76
2:LB:98:GLY:HA2	1:LC:254:GLU:HG3	1.67	0.76
1:LC:89:PRO:HD3	1:MC:280:LYS:CE	2.15	0.76
2:LD:224:ASP:HA	6:4B:219:ASN:OD1	1.85	0.76
4:2C:16:GLN:O	4:2C:19:MET:C	2.28	0.76
5:3C:229:PHE:CD2	5:3C:331:GLN:CB	2.68	0.76
6:4A:151:ARG:HG2	6:4A:151:ARG:NH1	1.94	0.76
7:5A:1105:TYR:HB2	7:5A:1166:LEU:H	1.49	0.76
7:5A:1348:LYS:HD3	7:5A:1348:LYS:N	2.00	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1548:VAL:CG1	7:5A:1569:GLU:HB2	2.11	0.76
7:5C:1348:LYS:HD3	7:5C:1348:LYS:N	2.00	0.76
2:DB:178:THR:HG23	1:DC:258:ASN:ND2	2.00	0.76
2:FB:212:PHE:CE2	1:FC:326:LYS:HD3	2.18	0.76
1:FC:101:ASN:HD22	2:FD:252:LYS:CG	1.98	0.76
2:FF:428:ALA:HB1	7:5B:1080:PHE:CZ	2.21	0.76
2:GD:220:PRO:HD2	1:GE:326:LYS:HG2	1.68	0.76
1:KC:88:HIS:CA	1:LC:284:GLU:HB3	1.95	0.76
2:KD:159:TYR:CE2	4:2A:35:VAL:O	2.39	0.76
1:LA:89:PRO:CD	1:MA:280:LYS:CD	2.62	0.76
7:5B:836:ARG:HH11	7:5B:836:ARG:CB	1.98	0.76
7:5B:1348:LYS:HD3	7:5B:1348:LYS:N	2.00	0.76
7:5C:1407:GLN:O	7:5C:1407:GLN:NE2	2.19	0.76
2:AD:361:LEU:HD22	6:4C:144:LEU:HD13	1.67	0.76
2:CB:87:PRO:HD2	2:DB:281:TYR:CD2	2.20	0.76
2:DD:177:ASP:O	1:DE:352:LYS:HA	1.85	0.76
2:ED:220:PRO:HD2	1:EE:326:LYS:CE	2.16	0.76
2:EF:125:GLU:CB	7:5B:903:PHE:CD2	2.66	0.76
2:FD:100:ASN:HB2	1:FE:257:THR:HG21	1.66	0.76
1:HE:71:GLU:OE1	2:HF:247:ASN:ND2	2.18	0.76
2:ID:220:PRO:HD2	1:IE:326:LYS:HG2	1.68	0.76
1:IE:71:GLU:OE1	2:IF:247:ASN:ND2	2.18	0.76
1:IE:402:ARG:NH2	7:5B:1418:GLN:HA	2.01	0.76
1:JA:89:PRO:CG	1:KA:279:GLU:C	2.58	0.76
2:KF:86:ARG:HE	2:KF:87:PRO:HD2	1.49	0.76
2:LB:331:LEU:HD11	4:2C:42:PHE:HE1	1.51	0.76
2:LD:397:TRP:HE3	1:LE:257:THR:HG22	1.43	0.76
5:3B:232:ALA:HB2	5:3B:336:ASN:N	2.00	0.76
7:5A:1407:GLN:O	7:5A:1407:GLN:NE2	2.19	0.76
7:5B:1407:GLN:O	7:5B:1407:GLN:NE2	2.19	0.76
7:5C:773:ARG:O	7:5C:773:ARG:NE	2.19	0.76
7:5C:1425:LYS:HZ1	7:5C:1429:GLN:HB2	1.48	0.76
9:7A:15:VAL:HG12	9:7B:35:ILE:CA	2.15	0.76
1:CC:222:PRO:CG	2:CD:324:LYS:HD3	2.15	0.76
1:GA:89:PRO:CG	1:HA:280:LYS:CE	2.63	0.76
1:HC:222:PRO:CG	2:HD:324:LYS:HD3	2.16	0.76
2:HF:160:PRO:HB3	5:3A:330:ARG:NH2	2.00	0.76
1:JC:11:GLN:NE2	2:JD:247:ASN:OD1	2.18	0.76
2:LB:340:TYR:CG	4:2C:147:PHE:HB3	2.21	0.76
2:LB:340:TYR:HB2	4:2C:147:PHE:HB2	1.68	0.76
2:LD:270:PHE:CE2	6:4B:226:ILE:HG23	2.20	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MB:221:THR:HG21	6:4A:189:ARG:HH22	0.67	0.76
1:ME:282:TYR:CD2	6:4B:104:ARG:CD	2.54	0.76
6:4D:289:LYS:HE3	6:4D:289:LYS:CA	2.08	0.76
7:5B:1105:TYR:HB2	7:5B:1166:LEU:H	1.49	0.76
7:5B:1266:TYR:CA	7:5B:1269:ASP:OD2	2.24	0.76
7:5C:1271:ILE:HA	9:7E:20:LEU:HD21	1.64	0.76
2:AB:220:PRO:HD2	1:AC:326:LYS:HE2	1.66	0.76
1:CA:101:ASN:CG	2:CB:252:LYS:HD2	2.06	0.76
2:FB:220:PRO:O	1:FC:324:VAL:HG11	1.86	0.76
1:IA:60:LYS:HZ2	1:JA:283:HIS:CD2	2.03	0.76
1:IC:222:PRO:CG	2:ID:324:LYS:HD3	2.16	0.76
2:JB:220:PRO:HD2	1:JC:326:LYS:HE2	1.66	0.76
1:JC:222:PRO:CG	2:JD:324:LYS:HD3	2.16	0.76
1:KC:85:GLN:OE1	1:LC:282:TYR:CA	2.34	0.76
1:LC:401:LYS:NZ	2:LD:344:TRP:CH2	2.54	0.76
1:MA:101:ASN:HD22	2:MB:252:LYS:HD2	1.38	0.76
5:3A:232:ALA:HB2	5:3A:336:ASN:N	2.00	0.76
5:3C:232:ALA:HB2	5:3C:336:ASN:N	2.00	0.76
7:5A:773:ARG:O	7:5A:773:ARG:NE	2.19	0.76
7:5B:1524:PHE:HE1	7:5B:1571:MET:CE	1.99	0.76
9:7A:14:SER:O	9:7B:35:ILE:CG1	2.34	0.76
2:AD:220:PRO:HD2	1:AE:326:LYS:HE2	1.67	0.76
1:EC:101:ASN:HD21	2:ED:252:LYS:HD2	0.93	0.76
1:FC:177:VAL:HG21	7:5A:915:PHE:HE2	1.44	0.76
2:ID:86:ARG:HE	2:ID:87:PRO:HD2	1.49	0.76
2:ID:87:PRO:HD2	2:JD:281:TYR:CE2	2.20	0.76
2:KD:125:GLU:CB	2:LD:336:LYS:HE2	2.14	0.76
2:LB:224:ASP:CA	6:4A:219:ASN:OD1	2.22	0.76
1:ME:404:PHE:CE2	2:MF:345:ILE:CD1	2.70	0.76
7:5A:836:ARG:HH11	7:5A:836:ARG:CB	1.98	0.76
7:5A:839:GLU:HA	8:6A:109:ILE:N	2.01	0.76
7:5B:840:GLY:C	8:6B:109:ILE:HD11	1.63	0.76
1:BA:71:GLU:OE1	2:BB:247:ASN:ND2	2.20	0.75
2:CB:87:PRO:CD	2:DB:281:TYR:CZ	2.69	0.75
1:DA:101:ASN:HD22	2:DB:252:LYS:CG	1.97	0.75
2:DD:177:ASP:OD2	1:DE:248:LEU:HD21	1.86	0.75
1:FE:101:ASN:CG	2:FF:252:LYS:HD2	2.09	0.75
1:GA:89:PRO:CG	1:HA:280:LYS:NZ	2.47	0.75
1:GC:89:PRO:HG3	1:HC:280:LYS:CD	2.15	0.75
2:IB:86:ARG:HE	2:IB:87:PRO:HD2	1.50	0.75
1:IE:402:ARG:NH2	7:5B:1418:GLN:CA	2.43	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:71:GLU:OE1	2:JF:247:ASN:ND2	2.18	0.75
1:KE:71:GLU:OE1	2:KF:247:ASN:ND2	2.18	0.75
6:4C:151:ARG:HG2	6:4C:151:ARG:NH1	1.94	0.75
7:5A:1374:ASP:HA	7:5A:1377:LYS:HE2	1.68	0.75
7:5B:773:ARG:O	7:5B:773:ARG:NE	2.19	0.75
7:5C:1152:GLU:OE1	8:6C:66:ARG:NH1	2.18	0.75
7:5C:1374:ASP:HA	7:5C:1377:LYS:HE2	1.68	0.75
1:BE:101:ASN:HD22	2:BF:252:LYS:CG	1.98	0.75
2:EB:85:PHE:O	2:FB:281:TYR:OH	2.04	0.75
1:EC:402:ARG:CZ	7:5A:824:ARG:HH22	1.99	0.75
1:IA:71:GLU:OE1	2:IB:247:ASN:ND2	2.19	0.75
1:LC:60:LYS:CD	1:MC:283:HIS:CD2	2.70	0.75
1:MA:101:ASN:HD21	2:MB:252:LYS:HD2	0.94	0.75
4:2C:16:GLN:C	4:2C:19:MET:N	2.45	0.75
7:5A:1524:PHE:HE1	7:5A:1571:MET:CE	1.99	0.75
1:AC:222:PRO:CG	2:AD:324:LYS:HD3	2.16	0.75
2:BB:220:PRO:O	1:BC:324:VAL:HG11	1.86	0.75
1:FC:56:THR:CA	1:GC:285:GLN:HB3	2.16	0.75
2:HD:86:ARG:HA	2:ID:281:TYR:CE1	2.21	0.75
2:IF:86:ARG:HE	2:IF:87:PRO:HD2	1.49	0.75
2:KD:276:ARG:NH2	6:4B:265:TYR:CA	2.45	0.75
2:LB:86:ARG:HE	2:LB:87:PRO:HD2	1.49	0.75
2:LB:177:ASP:OD2	1:LC:248:LEU:HD23	1.86	0.75
2:LB:296:ALA:CB	4:2C:149:ILE:HG21	2.14	0.75
2:LF:86:ARG:HE	2:LF:87:PRO:HD2	1.49	0.75
1:ME:101:ASN:HD21	2:MF:252:LYS:CD	1.72	0.75
4:2A:16:GLN:C	4:2A:19:MET:N	2.45	0.75
4:2B:16:GLN:C	4:2B:19:MET:N	2.45	0.75
7:5B:1374:ASP:HA	7:5B:1377:LYS:HE2	1.68	0.75
7:5C:836:ARG:HH11	7:5C:836:ARG:CB	1.98	0.75
9:7A:39:GLY:CA	9:7B:43:LEU:HD11	2.16	0.75
2:BD:177:ASP:O	1:BE:352:LYS:CD	2.29	0.75
2:CD:220:PRO:CD	1:CE:326:LYS:HE2	2.16	0.75
1:CE:71:GLU:OE1	2:CF:247:ASN:ND2	2.19	0.75
1:EA:222:PRO:CD	2:EB:324:LYS:HD3	2.15	0.75
1:EA:430:LYS:HZ2	7:5C:834:ASN:CB	1.99	0.75
2:EB:220:PRO:HD2	1:EC:326:LYS:CE	2.17	0.75
1:FC:101:ASN:HD22	2:FD:252:LYS:CD	1.99	0.75
2:JD:220:PRO:HD2	1:JE:326:LYS:HE2	1.67	0.75
2:LB:220:PRO:HD2	1:LC:326:LYS:HG2	1.69	0.75
2:MB:78:ALA:HB3	6:4A:178:HIS:NE2	2.02	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1436:ARG:HH11	7:5A:1436:ARG:HB3	1.50	0.75
7:5B:842:LEU:N	7:5B:842:LEU:HD13	2.02	0.75
7:5B:1436:ARG:HH11	7:5B:1436:ARG:HB3	1.50	0.75
7:5C:1524:PHE:HE1	7:5C:1571:MET:CE	1.99	0.75
9:7C:14:SER:O	9:7D:35:ILE:CG1	2.34	0.75
1:AC:308:ARG:O	3:1C:56:ASN:OD1	2.05	0.75
1:AE:342:GLN:HE21	3:1A:55:HIS:CD2	2.01	0.75
2:BD:177:ASP:OD1	1:BE:353:VAL:HG12	1.77	0.75
1:DC:400:ALA:O	7:5A:775:PRO:HB3	1.83	0.75
2:ED:208:TYR:OH	1:EE:325:PRO:HB2	1.87	0.75
1:FC:207:GLU:OE1	7:5A:915:PHE:HD2	1.68	0.75
1:GC:89:PRO:HG3	1:HC:280:LYS:CE	2.16	0.75
1:GC:222:PRO:CG	2:GD:324:LYS:HD3	2.16	0.75
2:HD:220:PRO:HD2	1:HE:326:LYS:HE2	1.67	0.75
1:IA:282:TYR:CE1	10:8V:15:UNK:HA	2.22	0.75
2:LD:86:ARG:HE	2:LD:87:PRO:HD2	1.49	0.75
2:LD:224:ASP:CA	6:4B:219:ASN:OD1	2.24	0.75
1:LE:60:LYS:HD3	1:ME:283:HIS:CD2	2.22	0.75
7:5A:844:PHE:CD2	7:5A:849:ARG:HD2	2.22	0.75
7:5A:1548:VAL:CG1	7:5A:1565:GLU:C	2.57	0.75
7:5B:844:PHE:CD2	7:5B:849:ARG:HD2	2.22	0.75
7:5B:1367:LYS:HA	7:5B:1367:LYS:HE3	1.66	0.75
7:5C:842:LEU:N	7:5C:842:LEU:HD13	2.02	0.75
7:5C:844:PHE:CD2	7:5C:849:ARG:HD2	2.22	0.75
7:5C:1548:VAL:CG1	7:5C:1569:GLU:HB2	2.11	0.75
1:AA:71:GLU:OE1	2:AB:247:ASN:ND2	2.19	0.75
2:EB:54:ALA:HA	2:FB:283:ALA:CB	2.11	0.75
2:ED:55:THR:CG2	2:FD:284:LEU:H	2.00	0.75
2:FF:55:THR:H	2:GF:283:ALA:CB	1.97	0.75
2:FF:428:ALA:CB	7:5B:1080:PHE:CZ	2.67	0.75
1:GA:71:GLU:OE1	2:GB:247:ASN:ND2	2.19	0.75
1:JE:89:PRO:CG	1:KE:280:LYS:CG	2.54	0.75
1:KE:84:ARG:CZ	1:LE:283:HIS:NE2	2.50	0.75
2:LD:55:THR:HG23	2:MD:283:ALA:HA	0.77	0.75
1:MA:279:GLU:HG3	6:4C:110:LYS:HE2	1.68	0.75
6:4C:244:GLU:CD	6:4C:284:LEU:HD11	2.12	0.75
7:5A:842:LEU:N	7:5A:842:LEU:HD13	2.02	0.75
7:5A:1152:GLU:CD	8:6A:66:ARG:HH12	1.95	0.75
7:5A:1367:LYS:HE3	7:5A:1367:LYS:HA	1.66	0.75
7:5B:880:ILE:HD11	7:5B:1047:LEU:HD23	1.69	0.75
7:5B:1548:VAL:CG1	7:5B:1565:GLU:C	2.57	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1267:CYS:SG	9:7E:8:ARG:CD	2.74	0.75
7:5C:1436:ARG:HH11	7:5C:1436:ARG:HB3	1.50	0.75
7:5C:1548:VAL:CG1	7:5C:1565:GLU:C	2.57	0.75
1:BA:11:GLN:OE1	2:BB:245:GLN:O	2.04	0.75
2:DB:177:ASP:CB	1:DC:353:VAL:HG12	2.17	0.75
2:EF:125:GLU:CD	7:5B:903:PHE:HE2	1.94	0.75
1:FC:89:PRO:CA	1:GC:280:LYS:NZ	2.50	0.75
1:IE:279:GLU:CD	10:8X:22:UNK:CA	2.53	0.75
2:KF:125:GLU:CD	2:LF:332:ASN:ND2	2.45	0.75
2:LB:221:THR:CG2	6:4A:220:GLY:H	2.00	0.75
6:4A:244:GLU:CD	6:4A:284:LEU:HD11	2.11	0.75
7:5C:1367:LYS:HA	7:5C:1367:LYS:HE3	1.66	0.75
9:7C:15:VAL:HG12	9:7D:35:ILE:HD13	0.75	0.75
9:7C:39:GLY:CA	9:7D:43:LEU:HD11	2.16	0.75
2:AD:40:SER:HG	6:4C:152:PHE:HE2	0.79	0.75
2:AD:217:LEU:HD22	6:4C:132:LYS:CD	2.15	0.75
2:AD:227:HIS:HE1	6:4C:135:LEU:HD12	1.51	0.75
1:FE:60:LYS:HD3	1:GE:283:HIS:CD2	2.22	0.75
1:GE:60:LYS:HD3	1:HE:283:HIS:CG	2.22	0.75
1:HA:71:GLU:OE1	2:HB:247:ASN:ND2	2.19	0.75
1:JA:89:PRO:HG2	1:KA:279:GLU:C	2.10	0.75
2:KB:32:PRO:HG2	6:4A:279:LEU:HD21	1.68	0.75
1:LC:222:PRO:HG3	2:LD:324:LYS:CD	2.15	0.75
6:4B:244:GLU:CD	6:4B:284:LEU:HD11	2.11	0.75
7:5A:880:ILE:HD11	7:5A:1047:LEU:HD23	1.69	0.75
9:7E:7:LEU:CD2	9:7F:30:ARG:HE	1.99	0.75
1:BE:71:GLU:OE1	2:BF:247:ASN:ND2	2.20	0.75
2:DB:179:VAL:CG2	1:DC:258:ASN:HA	2.17	0.75
1:EE:419:SER:OG	7:5B:830:VAL:HG21	1.85	0.75
1:GA:11:GLN:NE2	2:GB:247:ASN:OD1	2.20	0.75
1:GC:60:LYS:HD3	1:HC:283:HIS:CA	2.16	0.75
1:HA:11:GLN:NE2	2:HB:247:ASN:OD1	2.20	0.75
1:IE:60:LYS:NZ	1:JE:283:HIS:NE2	2.35	0.75
1:KA:86:LEU:C	1:LA:283:HIS:O	2.30	0.75
2:KB:87:PRO:HG2	2:LB:282:ARG:HG2	1.63	0.75
1:KE:372:MET:HB3	6:4B:299:TYR:HE1	1.48	0.75
1:MC:101:ASN:HD21	2:MD:252:LYS:CD	1.72	0.75
6:4D:244:GLU:CD	6:4D:284:LEU:HD11	2.11	0.75
7:5A:1284:PHE:CE1	9:7A:12:GLU:CB	2.67	0.75
7:5B:1474:LEU:HD22	7:5B:1576:ILE:CD1	2.16	0.75
7:5C:880:ILE:HD11	7:5C:1047:LEU:HD23	1.69	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:7A:30:ARG:NH1	9:7B:3:GLN:CG	2.49	0.75
2:DD:397:TRP:HE3	1:DE:257:THR:HG22	1.43	0.74
2:KB:130:LEU:HB2	4:2C:37:GLY:HA2	1.68	0.74
1:KC:222:PRO:CG	2:KD:324:LYS:HD3	2.16	0.74
2:KD:220:PRO:HD2	1:KE:326:LYS:HE2	1.67	0.74
2:LB:221:THR:HG21	6:4A:220:GLY:N	2.01	0.74
2:LD:310:TYR:CE2	4:2A:147:PHE:CE2	2.75	0.74
2:LF:55:THR:CG2	2:MF:283:ALA:HB1	2.16	0.74
2:LF:306:ARG:NH2	4:2B:149:ILE:CG2	2.50	0.74
2:BD:179:VAL:CG2	1:BE:258:ASN:HA	2.17	0.74
1:DC:71:GLU:OE1	2:DD:247:ASN:ND2	2.20	0.74
1:DE:101:ASN:HD22	2:DF:252:LYS:CD	1.96	0.74
1:EA:393:HIS:CE1	7:5C:814:LYS:HG3	2.22	0.74
2:EB:177:ASP:OD2	1:EC:248:LEU:HD21	1.86	0.74
1:EC:430:LYS:HZ3	7:5A:834:ASN:ND2	1.27	0.74
2:ED:55:THR:HG21	2:FD:284:LEU:H	1.52	0.74
1:HE:410:GLY:C	5:3A:329:ARG:NH2	2.44	0.74
1:HE:420:GLU:OE1	5:3A:215:TYR:CE2	2.41	0.74
1:JA:71:GLU:OE1	2:JB:247:ASN:ND2	2.19	0.74
1:KA:71:GLU:OE1	2:KB:247:ASN:ND2	2.19	0.74
2:LD:221:THR:HG21	6:4B:220:GLY:N	2.02	0.74
6:4D:111:GLU:HB3	6:4D:114:GLU:OE2	1.86	0.74
7:5C:1474:LEU:HD22	7:5C:1576:ILE:CD1	2.16	0.74
2:AB:220:PRO:O	1:AC:324:VAL:HG11	1.88	0.74
2:AF:322:SER:N	6:4A:156:PHE:CE2	2.56	0.74
2:GB:83:GLN:O	2:HB:281:TYR:OH	2.05	0.74
1:GC:409:VAL:CG1	5:3C:383:GLU:OE1	2.35	0.74
1:JE:88:HIS:ND1	1:KE:280:LYS:HD3	2.01	0.74
2:KD:83:GLN:HA	2:LD:281:TYR:CD1	2.22	0.74
1:LC:221:ARG:HH11	2:LD:324:LYS:N	1.86	0.74
2:LF:306:ARG:CZ	4:2B:151:VAL:HG21	2.18	0.74
7:5A:1474:LEU:HD22	7:5A:1576:ILE:CD1	2.16	0.74
7:5A:1562:LEU:HD12	7:5A:1562:LEU:N	2.02	0.74
7:5B:1562:LEU:HD12	7:5B:1562:LEU:N	2.02	0.74
7:5C:1562:LEU:HD12	7:5C:1562:LEU:N	2.02	0.74
9:7E:42:LEU:CD1	9:7F:39:GLY:CA	2.65	0.74
2:AF:357:PRO:HD2	6:4A:151:ARG:HD2	1.69	0.74
1:BC:71:GLU:OE1	2:BD:247:ASN:ND2	2.21	0.74
2:DD:177:ASP:CB	1:DE:353:VAL:HG12	2.18	0.74
1:GA:60:LYS:HD3	1:HA:283:HIS:CB	2.18	0.74
1:JE:90:GLU:CB	1:KE:280:LYS:HD2	1.82	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KB:87:PRO:HG2	2:LB:282:ARG:HD2	1.70	0.74
6:4B:111:GLU:HB3	6:4B:114:GLU:OE2	1.86	0.74
7:5B:1275:ILE:HG21	9:7D:11:TYR:OH	1.86	0.74
7:5B:1565:GLU:CB	7:5B:1568:LYS:HB2	2.05	0.74
9:7A:15:VAL:HG12	9:7B:35:ILE:HD13	0.75	0.74
9:7C:15:VAL:HG12	9:7D:35:ILE:CG1	2.17	0.74
9:7C:30:ARG:NH1	9:7D:3:GLN:CG	2.49	0.74
1:DE:101:ASN:CG	2:DF:252:LYS:HD2	2.08	0.74
2:FB:106:TYR:O	7:5C:1298:LYS:CE	2.34	0.74
1:FE:423:GLU:CD	7:5B:1256:ARG:HH22	1.95	0.74
1:GE:56:THR:OG1	1:HE:284:GLU:C	2.30	0.74
2:HB:220:PRO:O	1:HC:324:VAL:HG11	1.88	0.74
1:IA:58:ALA:HB3	10:8Y:13:UNK:HA	0.79	0.74
2:IB:220:PRO:HD2	1:IC:326:LYS:HG2	1.69	0.74
2:JB:220:PRO:HD2	1:JC:326:LYS:HG2	1.69	0.74
1:KE:85:GLN:CD	1:LE:282:TYR:HB2	2.12	0.74
2:LB:397:TRP:CE3	1:LC:257:THR:HG23	2.21	0.74
2:LF:294:PHE:HD2	4:2B:147:PHE:HZ	1.32	0.74
4:2A:16:GLN:C	4:2A:19:MET:H	1.96	0.74
4:2B:16:GLN:C	4:2B:19:MET:H	1.96	0.74
4:2C:16:GLN:C	4:2C:19:MET:H	1.96	0.74
7:5A:1565:GLU:CB	7:5A:1568:LYS:HB2	2.05	0.74
7:5B:1089:PHE:CD1	7:5B:1101:LEU:HD22	2.21	0.74
7:5C:1089:PHE:CD1	7:5C:1101:LEU:HD22	2.21	0.74
2:CF:86:ARG:N	2:DF:281:TYR:CE1	2.54	0.74
2:DB:397:TRP:CE3	1:DC:257:THR:HG23	2.22	0.74
2:EB:157:GLU:CD	7:5C:935:LYS:HZ1	1.84	0.74
1:FA:89:PRO:HD3	1:GA:280:LYS:HD3	1.67	0.74
2:GB:220:PRO:O	1:GC:324:VAL:HG11	1.88	0.74
2:IB:220:PRO:O	1:IC:324:VAL:HG11	1.88	0.74
1:IC:279:GLU:OE2	10:8W:22:UNK:CB	2.35	0.74
2:IF:86:ARG:NH1	2:JF:281:TYR:CA	2.48	0.74
2:KB:220:PRO:O	1:KC:324:VAL:HG11	1.88	0.74
2:KB:220:PRO:HD2	1:KC:326:LYS:HG2	1.69	0.74
1:LA:245:ASP:OD1	6:4C:216:ARG:CZ	2.35	0.74
1:LC:60:LYS:HD2	6:4A:101:ARG:NH1	2.01	0.74
2:LD:55:THR:HG23	2:MD:283:ALA:C	2.08	0.74
1:LE:60:LYS:HE3	6:4B:101:ARG:NH1	2.03	0.74
2:MD:78:ALA:CB	6:4B:178:HIS:CD2	2.70	0.74
6:4A:111:GLU:HB3	6:4A:114:GLU:OE2	1.86	0.74
7:5B:1572:LEU:HG	7:5B:1576:ILE:HD12	1.69	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1565:GLU:CB	7:5C:1568:LYS:HB2	2.05	0.74
2:BD:177:ASP:CB	1:BE:353:VAL:HG12	2.17	0.74
1:EA:62:VAL:CG2	1:FA:283:HIS:O	2.36	0.74
1:EE:101:ASN:HD21	2:EF:252:LYS:CD	1.76	0.74
1:IA:279:GLU:OE2	10:8V:22:UNK:CA	2.35	0.74
2:IF:86:ARG:CA	2:JF:281:TYR:HE1	2.00	0.74
2:KB:87:PRO:CG	2:LB:282:ARG:CD	2.63	0.74
2:KF:276:ARG:HH21	6:4D:265:TYR:CB	1.99	0.74
2:LD:306:ARG:HH21	4:2A:149:ILE:HG22	1.48	0.74
1:LE:89:PRO:CD	1:ME:280:LYS:CD	2.64	0.74
1:MA:279:GLU:OE1	6:4C:107:MET:CA	2.36	0.74
1:ME:279:GLU:O	6:4B:107:MET:CB	2.35	0.74
7:5A:1089:PHE:CD1	7:5A:1101:LEU:HD22	2.21	0.74
7:5A:1572:LEU:HG	7:5A:1576:ILE:HD12	1.69	0.74
7:5C:880:ILE:CD1	7:5C:1047:LEU:HD23	2.18	0.74
7:5C:1572:LEU:HG	7:5C:1576:ILE:CD1	2.18	0.74
2:AB:220:PRO:HD2	1:AC:326:LYS:HG2	1.69	0.74
1:CE:60:LYS:HZ3	1:DE:283:HIS:CD2	2.04	0.74
2:DD:212:PHE:CE2	1:DE:326:LYS:HD3	2.15	0.74
1:FE:101:ASN:ND2	2:FF:252:LYS:CG	2.50	0.74
2:HB:220:PRO:HD2	1:HC:326:LYS:HG2	1.69	0.74
2:HD:397:TRP:CB	1:HE:256:GLN:HE22	2.00	0.74
1:IA:11:GLN:NE2	2:IB:247:ASN:OD1	2.20	0.74
1:JA:11:GLN:NE2	2:JB:247:ASN:OD1	2.20	0.74
2:KB:215:LEU:HD12	6:4A:267:ILE:HG22	1.60	0.74
2:LB:390:ARG:CD	1:LC:439:THR:HG21	2.18	0.74
7:5A:880:ILE:CD1	7:5A:1047:LEU:HD23	2.18	0.74
7:5A:1487:ASN:HB3	7:5A:1568:LYS:NZ	2.03	0.74
7:5A:1572:LEU:HG	7:5A:1576:ILE:CD1	2.18	0.74
7:5B:1487:ASN:HB3	7:5B:1568:LYS:NZ	2.03	0.74
7:5C:1487:ASN:HB3	7:5C:1568:LYS:NZ	2.03	0.74
7:5C:1491:LEU:CD2	7:5C:1495:PHE:CG	2.60	0.74
2:BD:178:THR:HG23	1:BE:258:ASN:ND2	2.00	0.74
2:EF:157:GLU:HA	7:5B:945:LYS:NZ	2.02	0.74
1:KA:11:GLN:NE2	2:KB:247:ASN:OD1	2.20	0.74
2:LD:221:THR:CG2	6:4B:220:GLY:H	2.01	0.74
6:4C:111:GLU:HB3	6:4C:114:GLU:OE2	1.86	0.74
7:5B:880:ILE:CD1	7:5B:1047:LEU:HD23	2.17	0.74
1:AC:141:VAL:HG11	1:AC:172:TYR:HD1	1.53	0.74
2:BB:178:THR:HG23	1:BC:258:ASN:ND2	2.01	0.74
2:BD:212:PHE:CE2	1:BE:326:LYS:HD3	2.17	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:220:PRO:CD	1:CC:326:LYS:HE2	2.17	0.74
1:CC:222:PRO:CD	2:CD:324:LYS:HD3	2.16	0.74
1:DA:141:VAL:HG11	1:DA:172:TYR:HD1	1.53	0.74
1:EC:101:ASN:HD21	2:ED:252:LYS:CD	1.68	0.74
1:EE:393:HIS:HE1	7:5B:814:LYS:HG3	1.52	0.74
1:JC:141:VAL:HG11	1:JC:172:TYR:HD1	1.53	0.74
2:JD:179:VAL:CG2	1:JE:258:ASN:HA	2.18	0.74
1:JE:91:GLN:N	1:KE:280:LYS:HZ1	1.85	0.74
1:LA:141:VAL:HG11	1:LA:172:TYR:HD1	1.53	0.74
2:LB:274:THR:O	6:4A:228:LEU:HD22	1.84	0.74
2:LB:331:LEU:HD21	4:2C:42:PHE:CZ	0.64	0.74
7:5A:1548:VAL:C	7:5A:1566:GLU:HG2	2.13	0.74
7:5C:1491:LEU:HA	7:5C:1495:PHE:CB	2.13	0.74
7:5C:1572:LEU:HG	7:5C:1576:ILE:HD12	1.69	0.74
1:AA:141:VAL:HG11	1:AA:172:TYR:HD1	1.53	0.73
2:AD:179:VAL:CG2	1:AE:258:ASN:HA	2.18	0.73
1:AE:141:VAL:HG11	1:AE:172:TYR:HD1	1.53	0.73
1:AE:283:HIS:C	2:MB:54:ALA:HB1	2.12	0.73
1:DC:141:VAL:HG11	1:DC:172:TYR:HD1	1.53	0.73
1:DE:141:VAL:HG11	1:DE:172:TYR:HD1	1.53	0.73
2:GD:179:VAL:CG2	1:GE:258:ASN:HA	2.18	0.73
1:HC:141:VAL:HG11	1:HC:172:TYR:HD1	1.53	0.73
1:HC:401:LYS:CE	2:HD:344:TRP:CZ3	2.62	0.73
1:JA:141:VAL:HG11	1:JA:172:TYR:HD1	1.53	0.73
2:KB:217:LEU:CG	6:4A:263:CYS:SG	2.74	0.73
2:KD:124:ALA:O	4:2A:38:VAL:HG13	1.88	0.73
2:KF:77:ARG:C	2:LF:281:TYR:OH	2.31	0.73
1:LA:60:LYS:HD3	1:MA:283:HIS:CD2	2.23	0.73
1:LA:89:PRO:CG	1:MA:280:LYS:HZ2	2.01	0.73
1:LC:89:PRO:HD3	1:MC:280:LYS:HZ1	1.35	0.73
1:LC:141:VAL:HG11	1:LC:172:TYR:HD1	1.53	0.73
2:LF:18:ALA:HB3	6:4D:217:ASN:ND2	2.02	0.73
7:5B:1548:VAL:C	7:5B:1566:GLU:HG2	2.13	0.73
7:5B:1572:LEU:HG	7:5B:1576:ILE:CD1	2.18	0.73
7:5C:1491:LEU:CD2	7:5C:1495:PHE:CE1	2.71	0.73
7:5C:1548:VAL:C	7:5C:1566:GLU:HG2	2.13	0.73
1:AA:11:GLN:NE2	2:AB:247:ASN:OD1	2.20	0.73
1:CC:11:GLN:NE2	2:CD:247:ASN:OD1	2.21	0.73
1:DA:11:GLN:NE2	2:DB:247:ASN:OD1	2.21	0.73
1:DE:101:ASN:HD22	2:DF:252:LYS:CG	2.00	0.73
2:ED:177:ASP:OD1	1:EE:353:VAL:HG12	1.76	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GD:412:GLU:OE2	7:5A:1323:MET:HE2	1.87	0.73
1:HE:141:VAL:HG11	1:HE:172:TYR:HD1	1.53	0.73
1:HE:415:GLU:CG	5:3A:235:LEU:HB3	2.17	0.73
2:JD:86:ARG:NE	2:KD:281:TYR:CD2	2.55	0.73
2:JD:397:TRP:CB	1:JE:256:GLN:HE22	2.00	0.73
1:JE:141:VAL:HG11	1:JE:172:TYR:HD1	1.53	0.73
1:KA:141:VAL:HG11	1:KA:172:TYR:HD1	1.53	0.73
1:KC:141:VAL:HG11	1:KC:172:TYR:HD1	1.53	0.73
1:LA:401:LYS:NZ	2:LB:344:TRP:CE3	2.56	0.73
2:LB:178:THR:HG23	1:LC:258:ASN:ND2	2.02	0.73
2:LB:270:PHE:CE2	6:4A:226:ILE:HG23	2.22	0.73
7:5A:841:VAL:CG2	8:6A:11:PRO:CA	2.66	0.73
7:5A:1491:LEU:CD2	7:5A:1495:PHE:CG	2.60	0.73
7:5A:1491:LEU:HA	7:5A:1495:PHE:CB	2.13	0.73
7:5B:1491:LEU:HA	7:5B:1495:PHE:CB	2.13	0.73
2:DB:86:ARG:CA	2:EB:281:TYR:CZ	2.60	0.73
2:DB:177:ASP:O	1:DC:352:LYS:HA	1.88	0.73
1:EE:141:VAL:HG11	1:EE:172:TYR:HD1	1.53	0.73
1:FE:60:LYS:HD3	1:GE:283:HIS:CA	2.14	0.73
1:FE:207:GLU:OE1	7:5B:915:PHE:HD2	1.70	0.73
1:HA:141:VAL:HG11	1:HA:172:TYR:HD1	1.54	0.73
1:KC:79:ARG:O	1:LC:280:LYS:CE	2.32	0.73
2:KD:397:TRP:CB	1:KE:256:GLN:HE22	2.00	0.73
2:LB:331:LEU:CD2	4:2C:42:PHE:HZ	0.35	0.73
1:LE:35:GLN:NE2	6:4B:101:ARG:HB2	2.02	0.73
1:LE:141:VAL:HG11	1:LE:172:TYR:HD1	1.54	0.73
1:MA:224:TYR:HE2	2:MB:246:LEU:HD11	1.53	0.73
1:MA:279:GLU:O	6:4C:107:MET:CB	2.34	0.73
7:5A:827:GLU:CG	7:5A:849:ARG:NH2	2.52	0.73
7:5A:1491:LEU:CD2	7:5A:1495:PHE:CE1	2.71	0.73
7:5B:827:GLU:CG	7:5B:849:ARG:NH2	2.52	0.73
7:5C:1374:ASP:OD1	7:5C:1374:ASP:N	2.20	0.73
1:CA:71:GLU:OE1	2:CB:247:ASN:ND2	2.21	0.73
1:DC:101:ASN:HD22	2:DD:252:LYS:CD	1.98	0.73
1:EA:141:VAL:HG11	1:EA:172:TYR:HD1	1.53	0.73
2:GB:220:PRO:HD2	1:GC:326:LYS:HG2	1.69	0.73
2:HD:179:VAL:CG2	1:HE:258:ASN:HA	2.18	0.73
2:ID:179:VAL:CG2	1:IE:258:ASN:HA	2.18	0.73
2:LD:391:ARG:HG3	1:LE:346:TRP:CD1	2.23	0.73
2:LF:379:LYS:HZ1	4:2B:166:ILE:CA	2.01	0.73
1:MA:279:GLU:HB3	6:4C:110:LYS:HE3	1.70	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MF:78:ALA:CB	6:4D:178:HIS:NE2	2.51	0.73
5:3B:224:ASP:H	5:3B:335:LYS:NZ	1.86	0.73
7:5B:1089:PHE:CD1	7:5B:1101:LEU:HD21	2.22	0.73
7:5C:827:GLU:CG	7:5C:849:ARG:NH2	2.52	0.73
7:5C:1521:PHE:CA	7:5C:1567:PHE:CE2	2.60	0.73
1:AC:401:LYS:CE	2:AD:344:TRP:CZ3	2.62	0.73
2:BB:220:PRO:O	1:BC:324:VAL:HG13	1.86	0.73
1:BC:11:GLN:OE1	2:BD:245:GLN:O	2.06	0.73
1:EC:141:VAL:HG11	1:EC:172:TYR:HD1	1.54	0.73
1:FA:222:PRO:HG2	2:FB:324:LYS:HD3	1.69	0.73
2:KD:179:VAL:CG2	1:KE:258:ASN:HA	2.18	0.73
1:KE:85:GLN:CA	1:LE:283:HIS:CD2	2.71	0.73
1:KE:141:VAL:HG11	1:KE:172:TYR:HD1	1.54	0.73
2:LF:274:THR:O	6:4D:228:LEU:HD22	1.88	0.73
1:MA:372:MET:CE	6:4C:96:VAL:C	2.43	0.73
2:MB:111:GLU:HA	3:1A:62:SER:HA	1.69	0.73
1:MC:404:PHE:CE2	2:MD:345:ILE:CD1	2.72	0.73
2:MD:391:ARG:HG3	1:ME:346:TRP:CD1	2.23	0.73
7:5A:1347:LEU:HB2	7:5A:1348:LYS:HE2	1.70	0.73
7:5B:1425:LYS:HZ1	7:5B:1429:GLN:HB2	1.50	0.73
7:5C:1347:LEU:HB2	7:5C:1348:LYS:HE2	1.70	0.73
7:5C:1474:LEU:HD22	7:5C:1576:ILE:HD13	1.70	0.73
2:AF:223:GLY:C	6:4A:131:VAL:CB	2.62	0.73
1:DE:400:ALA:HA	7:5B:775:PRO:HB3	1.71	0.73
1:EE:101:ASN:HD22	2:EF:252:LYS:CG	1.99	0.73
1:FA:55:GLU:O	1:GA:285:GLN:OE1	2.06	0.73
1:FC:56:THR:OG1	1:GC:284:GLU:C	2.31	0.73
2:FD:178:THR:HG23	1:FE:258:ASN:ND2	2.02	0.73
1:GC:60:LYS:NZ	1:HC:283:HIS:ND1	2.37	0.73
2:GF:83:GLN:O	2:HF:281:TYR:OH	2.07	0.73
1:HC:416:GLY:HA2	5:3C:238:ILE:HD11	1.69	0.73
1:JE:282:TYR:CZ	10:9A:17:UNK:CB	2.72	0.73
2:LB:227:HIS:ND1	6:4A:226:ILE:HG13	2.01	0.73
1:LE:222:PRO:HD2	2:LF:324:LYS:CB	2.17	0.73
2:MD:179:VAL:CG2	1:ME:258:ASN:HA	2.19	0.73
5:3A:224:ASP:H	5:3A:335:LYS:NZ	1.86	0.73
7:5A:1374:ASP:OD1	7:5A:1374:ASP:N	2.20	0.73
7:5A:1521:PHE:CZ	7:5A:1571:MET:HG2	2.23	0.73
7:5A:1521:PHE:CA	7:5A:1567:PHE:CE2	2.60	0.73
7:5B:1482:SER:CA	7:5B:1485:LYS:HB2	2.16	0.73
7:5B:1491:LEU:CD2	7:5B:1495:PHE:CE1	2.71	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1089:PHE:CD1	7:5C:1101:LEU:HD21	2.22	0.73
1:CA:141:VAL:HG11	1:CA:172:TYR:HD1	1.53	0.73
1:DE:71:GLU:OE1	2:DF:247:ASN:ND2	2.22	0.73
2:EB:177:ASP:O	1:EC:352:LYS:HA	1.88	0.73
1:EC:222:PRO:CG	2:ED:324:LYS:HD3	2.17	0.73
1:EC:401:LYS:CE	2:ED:344:TRP:CZ3	2.60	0.73
1:FA:207:GLU:OE1	7:5C:915:PHE:CD2	2.40	0.73
2:FB:84:LEU:O	2:GB:281:TYR:HE1	1.70	0.73
1:FC:141:VAL:HG11	1:FC:172:TYR:HD1	1.53	0.73
2:FD:208:TYR:OH	1:FE:325:PRO:HB2	1.88	0.73
1:FE:141:VAL:HG11	1:FE:172:TYR:HD1	1.54	0.73
1:LA:224:TYR:HE2	2:LB:246:LEU:HD11	1.53	0.73
2:LD:98:GLY:CA	1:LE:254:GLU:HG2	2.18	0.73
7:5A:1265:ALA:O	7:5A:1269:ASP:CG	2.32	0.73
7:5B:1265:ALA:O	7:5B:1269:ASP:CG	2.32	0.73
7:5B:1347:LEU:HB2	7:5B:1348:LYS:HE2	1.70	0.73
7:5B:1521:PHE:CZ	7:5B:1571:MET:HG2	2.23	0.73
7:5C:1265:ALA:O	7:5C:1269:ASP:CG	2.32	0.73
7:5C:1521:PHE:CZ	7:5C:1571:MET:HG2	2.23	0.73
9:7A:15:VAL:HG12	9:7B:35:ILE:CG1	2.17	0.73
9:7C:30:ARG:HH12	9:7D:3:GLN:CB	2.02	0.73
2:CD:397:TRP:CE3	1:CE:257:THR:HG23	2.23	0.73
1:GA:89:PRO:CG	1:HA:280:LYS:CD	2.65	0.73
2:GD:397:TRP:CB	1:GE:256:GLN:HE22	2.00	0.73
2:KB:127:CYS:HB2	4:2C:38:VAL:HG21	1.68	0.73
2:LB:98:GLY:C	1:LC:254:GLU:HG2	2.14	0.73
2:LD:224:ASP:CA	6:4B:219:ASN:CG	2.62	0.73
1:MA:11:GLN:NE2	2:MB:247:ASN:OD1	2.22	0.73
6:4A:244:GLU:O	6:4A:247:LYS:HG2	1.88	0.73
7:5A:1089:PHE:CD1	7:5A:1101:LEU:HD21	2.22	0.73
7:5A:1271:ILE:CA	9:7A:20:LEU:HD21	1.77	0.73
7:5A:1482:SER:CA	7:5A:1485:LYS:HB2	2.16	0.73
7:5A:1548:VAL:HG13	7:5A:1569:GLU:HB2	1.69	0.73
7:5B:1126:PRO:CD	8:6B:246:TYR:OH	2.35	0.73
7:5B:1491:LEU:CD2	7:5B:1495:PHE:CG	2.60	0.73
7:5B:1510:ASN:O	7:5B:1558:LYS:HB3	1.88	0.73
7:5B:1521:PHE:CA	7:5B:1567:PHE:CE2	2.60	0.73
7:5C:1548:VAL:HG13	7:5C:1569:GLU:HB2	1.69	0.73
8:6C:146:ILE:HD12	8:6C:183:LEU:HB3	1.70	0.73
9:7A:30:ARG:HH12	9:7B:3:GLN:CB	2.02	0.73
9:7C:35:ILE:HG21	9:7D:42:LEU:O	1.87	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:141:VAL:HG11	1:CC:172:TYR:HD1	1.53	0.73
2:DB:212:PHE:CE2	1:DC:326:LYS:HD3	2.14	0.73
1:DC:101:ASN:HD22	2:DD:252:LYS:CG	2.00	0.73
1:FA:89:PRO:HG3	1:GA:280:LYS:CE	2.18	0.73
1:FA:100:ALA:HB1	2:FB:252:LYS:HA	1.70	0.73
1:FA:141:VAL:HG11	1:FA:172:TYR:HD1	1.53	0.73
2:FB:177:ASP:HA	1:FC:353:VAL:HG12	1.71	0.73
2:FB:212:PHE:CZ	1:FC:326:LYS:CD	2.40	0.73
1:HE:404:PHE:HE2	2:HF:345:ILE:CD1	2.02	0.73
2:ID:86:ARG:CB	2:JD:281:TYR:CE1	2.71	0.73
2:JB:220:PRO:O	1:JC:324:VAL:HG11	1.88	0.73
2:KD:220:PRO:O	1:KE:324:VAL:HG11	1.89	0.73
2:MB:220:PRO:O	1:MC:324:VAL:CG1	2.37	0.73
5:3C:224:ASP:H	5:3C:335:LYS:NZ	1.87	0.73
6:4C:244:GLU:O	6:4C:247:LYS:HG2	1.88	0.73
7:5A:840:GLY:C	8:6A:109:ILE:HD11	1.53	0.73
7:5B:1374:ASP:OD1	7:5B:1374:ASP:N	2.20	0.73
7:5B:1548:VAL:HG13	7:5B:1569:GLU:HB2	1.69	0.73
9:7E:35:ILE:CG2	9:7F:42:LEU:C	2.61	0.73
2:AB:55:THR:HG21	2:BB:283:ALA:HA	1.71	0.73
2:AD:220:PRO:O	1:AE:324:VAL:HG11	1.89	0.73
2:CD:212:PHE:CE2	1:CE:326:LYS:HD3	2.17	0.73
2:EF:125:GLU:HG2	7:5B:903:PHE:HD2	1.48	0.73
1:FE:101:ASN:HD22	2:FF:252:LYS:CD	2.00	0.73
2:HD:220:PRO:O	1:HE:324:VAL:HG11	1.89	0.73
1:JA:89:PRO:HG2	1:KA:280:LYS:CB	2.17	0.73
2:KD:221:THR:CB	6:4B:261:SER:C	2.54	0.73
2:LF:215:LEU:HD13	6:4D:225:PRO:HB3	1.71	0.73
1:MA:279:GLU:CB	6:4C:110:LYS:CE	2.66	0.73
7:5A:841:VAL:N	8:6A:109:ILE:HD11	2.01	0.73
7:5A:1474:LEU:HD22	7:5A:1576:ILE:HD13	1.70	0.73
7:5A:1510:ASN:O	7:5A:1558:LYS:HB3	1.88	0.73
9:7A:35:ILE:HG21	9:7B:42:LEU:O	1.87	0.73
9:7A:38:LEU:CD2	9:7B:42:LEU:HD13	2.19	0.73
2:AD:284:LEU:HD11	6:4C:144:LEU:HD13	1.67	0.72
1:AE:404:PHE:HE2	2:AF:345:ILE:CD1	2.02	0.72
1:CA:11:GLN:NE2	2:CB:247:ASN:OD1	2.22	0.72
1:GA:141:VAL:HG11	1:GA:172:TYR:HD1	1.53	0.72
2:GB:86:ARG:HH22	2:HB:281:TYR:CE2	1.46	0.72
2:ID:220:PRO:O	1:IE:324:VAL:HG11	1.89	0.72
1:LA:401:LYS:NZ	2:LB:344:TRP:CH2	2.57	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4B:244:GLU:O	6:4B:247:LYS:HG2	1.88	0.72
6:4D:251:TYR:CE2	6:4D:280:VAL:HG11	2.24	0.72
7:5C:1243:ASP:CG	9:7F:8:ARG:NH1	2.45	0.72
2:CD:179:VAL:CG2	1:CE:258:ASN:HA	2.19	0.72
1:CE:141:VAL:HG11	1:CE:172:TYR:HD1	1.53	0.72
1:DA:60:LYS:CD	1:EA:283:HIS:CD2	2.60	0.72
1:FC:60:LYS:HD2	1:GC:283:HIS:HD2	1.51	0.72
2:ID:397:TRP:CB	1:IE:256:GLN:HE22	2.00	0.72
1:ME:404:PHE:HE2	2:MF:345:ILE:HD12	1.51	0.72
6:4B:251:TYR:CE2	6:4B:280:VAL:HG11	2.24	0.72
6:4D:244:GLU:O	6:4D:247:LYS:HG2	1.88	0.72
1:BE:11:GLN:OE1	2:BF:245:GLN:O	2.07	0.72
2:CB:86:ARG:CB	2:DB:281:TYR:HE1	1.83	0.72
2:CB:178:THR:HG23	1:CC:258:ASN:ND2	2.01	0.72
2:CD:177:ASP:O	1:CE:352:LYS:CD	2.30	0.72
2:ED:157:GLU:OE1	7:5A:935:LYS:CE	2.36	0.72
1:FA:89:PRO:CG	1:GA:280:LYS:CE	2.67	0.72
1:GC:141:VAL:HG11	1:GC:172:TYR:HD1	1.53	0.72
2:LB:231:ALA:HB2	6:4A:226:ILE:HD13	0.73	0.72
1:LC:401:LYS:NZ	2:LD:344:TRP:CE3	2.57	0.72
2:LD:177:ASP:OD2	1:LE:353:VAL:CG1	2.37	0.72
2:MF:78:ALA:CB	6:4D:178:HIS:CD2	2.72	0.72
7:5A:1152:GLU:CD	8:6A:66:ARG:NH1	2.46	0.72
7:5C:1510:ASN:O	7:5C:1558:LYS:HB3	1.88	0.72
9:7D:12:GLU:HA	9:7D:16:THR:HG1	1.54	0.72
1:CE:11:GLN:NE2	2:CF:247:ASN:OD1	2.22	0.72
1:DA:402:ARG:HH21	7:5C:777:ALA:HB3	1.54	0.72
1:DC:101:ASN:CG	2:DD:252:LYS:HD2	2.09	0.72
1:EC:401:LYS:HE3	2:ED:344:TRP:CZ3	2.24	0.72
1:FA:101:ASN:HD22	2:FB:252:LYS:CD	1.98	0.72
1:FA:222:PRO:CG	2:FB:324:LYS:CD	2.66	0.72
2:GD:220:PRO:O	1:GE:324:VAL:HG11	1.89	0.72
1:GE:141:VAL:HG11	1:GE:172:TYR:HD1	1.53	0.72
1:HC:71:GLU:OE1	2:HD:247:ASN:ND2	2.22	0.72
1:HE:159:VAL:CG2	5:3A:209:ARG:NE	2.50	0.72
1:KE:404:PHE:HE2	2:KF:345:ILE:CD1	2.02	0.72
1:LA:222:PRO:HD2	2:LB:324:LYS:CB	2.20	0.72
2:LB:223:GLY:HA3	6:4A:219:ASN:HA	1.69	0.72
2:LB:224:ASP:CA	6:4A:219:ASN:CG	2.62	0.72
6:4A:251:TYR:CE2	6:4A:280:VAL:HG11	2.24	0.72
7:5B:1474:LEU:HD22	7:5B:1576:ILE:HD13	1.70	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1552:LYS:HZ1	7:5C:1563:SER:HB3	1.52	0.72
2:AD:361:LEU:CD2	6:4C:144:LEU:HD12	2.18	0.72
2:AF:322:SER:N	6:4A:156:PHE:HE2	1.86	0.72
2:DB:397:TRP:HE3	1:DC:257:THR:CG2	1.98	0.72
2:DD:220:PRO:HD2	1:DE:326:LYS:CG	2.17	0.72
1:EE:393:HIS:CE1	7:5B:814:LYS:CG	2.70	0.72
1:FA:89:PRO:CD	1:GA:280:LYS:HZ2	2.01	0.72
2:GD:55:THR:H	2:HD:283:ALA:CA	2.01	0.72
1:GE:11:GLN:NE2	2:GF:247:ASN:OD1	2.23	0.72
1:IC:71:GLU:OE1	2:ID:247:ASN:ND2	2.22	0.72
1:JE:404:PHE:HE2	2:JF:345:ILE:CD1	2.02	0.72
1:LC:222:PRO:HD2	2:LD:324:LYS:CB	2.19	0.72
1:LE:222:PRO:HD2	2:LF:324:LYS:CD	2.15	0.72
2:MD:220:PRO:O	1:ME:324:VAL:CG1	2.38	0.72
7:5C:1378:GLN:CA	7:5C:1381:ILE:HD13	2.18	0.72
9:7C:38:LEU:CD2	9:7D:42:LEU:HD13	2.19	0.72
9:7E:11:TYR:HE1	9:7F:26:LEU:CG	2.02	0.72
2:AF:361:LEU:HD22	6:4A:144:LEU:HD13	1.70	0.72
1:BE:222:PRO:CD	2:BF:324:LYS:HD3	2.18	0.72
2:CD:177:ASP:CB	1:CE:353:VAL:HG12	2.20	0.72
2:DD:208:TYR:OH	1:DE:325:PRO:HB2	1.90	0.72
1:EE:101:ASN:HD22	2:EF:252:LYS:CD	1.99	0.72
2:HB:177:ASP:CB	1:HC:353:VAL:HG12	2.20	0.72
1:HE:410:GLY:CA	5:3A:329:ARG:HH21	2.03	0.72
2:JB:177:ASP:CB	1:JC:353:VAL:HG12	2.20	0.72
2:JF:88:ASP:CG	2:KF:278:SER:OG	2.33	0.72
2:MD:177:ASP:CG	1:ME:353:VAL:HG13	2.10	0.72
1:ME:372:MET:HE2	6:4B:96:VAL:CA	2.19	0.72
6:4C:251:TYR:CE2	6:4C:280:VAL:HG11	2.24	0.72
7:5A:1378:GLN:CA	7:5A:1381:ILE:HD13	2.18	0.72
7:5B:801:LEU:HD23	7:5B:801:LEU:N	2.04	0.72
7:5B:1378:GLN:CA	7:5B:1381:ILE:HD13	2.18	0.72
2:AB:177:ASP:CB	1:AC:353:VAL:HG12	2.20	0.72
2:EB:55:THR:HG21	2:FB:284:LEU:H	1.54	0.72
2:ED:179:VAL:CG2	1:EE:258:ASN:HA	2.20	0.72
1:FC:404:PHE:HE2	2:FD:345:ILE:CD1	2.03	0.72
1:FE:419:SER:HB2	7:5B:1256:ARG:HE	0.61	0.72
1:HE:11:GLN:NE2	2:HF:247:ASN:OD1	2.23	0.72
1:JC:90:GLU:HG2	1:KC:280:LYS:HD2	1.68	0.72
1:KA:88:HIS:CG	1:LA:284:GLU:HB2	2.24	0.72
2:KB:177:ASP:CB	1:KC:353:VAL:HG12	2.20	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:71:GLU:OE1	2:KD:247:ASN:ND2	2.22	0.72
2:KF:215:LEU:CD1	6:4D:267:ILE:CG2	2.65	0.72
7:5B:1487:ASN:OD1	7:5B:1568:LYS:HG2	1.85	0.72
8:6A:146:ILE:HD12	8:6A:183:LEU:HB3	1.70	0.72
2:CF:87:PRO:CD	2:DF:281:TYR:CZ	2.73	0.72
2:DB:208:TYR:OH	1:DC:325:PRO:HB2	1.90	0.72
1:EA:426:ALA:CB	7:5C:833:PHE:HB2	2.18	0.72
1:FA:177:VAL:HG21	7:5C:915:PHE:HE2	1.44	0.72
1:FE:419:SER:OG	7:5B:1256:ARG:HD3	1.89	0.72
1:GC:71:GLU:OE1	2:GD:247:ASN:ND2	2.22	0.72
1:IC:60:LYS:HZ2	1:JC:283:HIS:CD2	2.08	0.72
2:JD:220:PRO:O	1:JE:324:VAL:HG11	1.89	0.72
1:KA:85:GLN:HE22	1:LA:282:TYR:HB3	1.44	0.72
2:LD:179:VAL:CG2	1:LE:258:ASN:CA	2.67	0.72
1:LE:222:PRO:HG3	2:LF:324:LYS:HD2	1.70	0.72
7:5A:1316:LEU:HA	7:5A:1319:HIS:HB2	1.72	0.72
1:AC:71:GLU:OE1	2:AD:247:ASN:ND2	2.22	0.72
1:EA:401:LYS:CE	2:EB:344:TRP:CZ3	2.64	0.72
1:FE:101:ASN:HD22	2:FF:252:LYS:CG	2.02	0.72
2:IF:424:GLN:HE22	7:5B:1413:GLN:CD	1.71	0.72
2:LB:177:ASP:OD1	1:LC:353:VAL:HG12	1.74	0.72
2:LF:340:TYR:CG	4:2B:147:PHE:CB	2.72	0.72
6:4C:289:LYS:HE3	6:4C:289:LYS:CA	2.08	0.72
7:5C:1105:TYR:HB3	7:5C:1166:LEU:N	2.03	0.72
7:5C:1316:LEU:HA	7:5C:1319:HIS:HB2	1.72	0.72
9:7E:11:TYR:HE1	9:7F:26:LEU:CD2	1.99	0.72
1:DA:400:ALA:O	7:5C:775:PRO:HB3	1.90	0.72
2:KB:276:ARG:HH21	6:4A:265:TYR:CB	2.02	0.72
2:KF:83:GLN:OE1	2:LF:281:TYR:CD1	2.23	0.72
6:4A:289:LYS:HE3	6:4A:289:LYS:CA	2.08	0.72
7:5A:801:LEU:HD23	7:5A:801:LEU:N	2.04	0.72
7:5A:1105:TYR:HB3	7:5A:1166:LEU:N	2.03	0.72
7:5B:1105:TYR:HB3	7:5B:1166:LEU:N	2.03	0.72
7:5B:1316:LEU:HA	7:5B:1319:HIS:HB2	1.72	0.72
2:BB:212:PHE:CZ	1:BC:326:LYS:CD	2.24	0.71
2:ED:177:ASP:OD2	1:EE:248:LEU:HD21	1.89	0.71
1:GE:404:PHE:HE2	2:GF:345:ILE:CD1	2.02	0.71
1:JE:11:GLN:NE2	2:JF:247:ASN:OD1	2.23	0.71
7:5A:829:GLY:HA2	8:6A:109:ILE:CG2	2.20	0.71
7:5B:1436:ARG:HH11	7:5B:1436:ARG:CG	2.02	0.71
7:5C:836:ARG:HH11	7:5C:836:ARG:CG	2.03	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:6B:146:ILE:HD12	8:6B:183:LEU:HB3	1.70	0.71
1:IA:141:VAL:HG11	1:IA:172:TYR:HD1	1.54	0.71
1:JC:91:GLN:N	1:KC:280:LYS:HZ1	1.88	0.71
2:JD:177:ASP:CB	1:JE:353:VAL:HG12	2.20	0.71
1:KE:85:GLN:OE1	1:LE:282:TYR:CA	2.38	0.71
1:LE:401:LYS:NZ	2:LF:344:TRP:CE3	2.58	0.71
1:MC:279:GLU:HB3	6:4A:110:LYS:HE3	1.70	0.71
7:5A:1275:ILE:HD13	9:7B:11:TYR:OH	1.89	0.71
7:5A:1284:PHE:CZ	9:7A:12:GLU:OE1	2.43	0.71
7:5A:1424:GLN:HE21	7:5A:1424:GLN:C	1.98	0.71
7:5B:1246:LEU:N	9:7D:12:GLU:OE2	2.23	0.71
7:5B:1424:GLN:HE21	7:5B:1424:GLN:C	1.98	0.71
9:7E:30:ARG:NH1	9:7F:3:GLN:CA	2.44	0.71
1:FE:402:ARG:NH2	7:5B:1262:GLU:OE1	2.23	0.71
2:GB:177:ASP:CB	1:GC:353:VAL:HG12	2.20	0.71
2:HD:177:ASP:CB	1:HE:353:VAL:HG12	2.20	0.71
1:IC:141:VAL:HG11	1:IC:172:TYR:HD1	1.53	0.71
1:IE:404:PHE:HE2	2:IF:345:ILE:CD1	2.02	0.71
2:LD:231:ALA:HB1	6:4B:226:ILE:HD13	1.70	0.71
4:2A:164:ARG:NH1	4:2A:164:ARG:HB2	2.05	0.71
4:2C:164:ARG:NH1	4:2C:164:ARG:HB2	2.05	0.71
7:5A:836:ARG:HH11	7:5A:836:ARG:CG	2.03	0.71
7:5A:1436:ARG:HH11	7:5A:1436:ARG:CG	2.02	0.71
7:5C:1424:GLN:HE21	7:5C:1424:GLN:C	1.98	0.71
7:5C:1436:ARG:NE	7:5C:1436:ARG:O	2.23	0.71
2:AD:177:ASP:CB	1:AE:353:VAL:HG12	2.20	0.71
2:AD:397:TRP:CB	1:AE:256:GLN:HE22	2.00	0.71
2:AF:55:THR:HG23	2:BF:283:ALA:HB2	1.70	0.71
2:AF:361:LEU:CD2	6:4A:144:LEU:CD1	2.65	0.71
1:BA:141:VAL:HG11	1:BA:172:TYR:HD1	1.53	0.71
1:BE:141:VAL:HG11	1:BE:172:TYR:HD1	1.53	0.71
2:EB:125:GLU:CG	7:5C:903:PHE:CD2	2.63	0.71
1:IE:11:GLN:NE2	2:IF:247:ASN:OD1	2.23	0.71
1:JC:124:LYS:CD	1:KC:284:GLU:OE1	2.39	0.71
2:KB:87:PRO:CD	2:LB:282:ARG:CG	2.61	0.71
2:KD:54:ALA:CA	2:LD:285:THR:CG2	2.68	0.71
2:KD:177:ASP:CB	1:KE:353:VAL:HG12	2.20	0.71
1:LA:222:PRO:HG3	2:LB:324:LYS:CD	2.19	0.71
1:LE:89:PRO:HG2	1:ME:280:LYS:HD2	1.71	0.71
7:5A:1436:ARG:NE	7:5A:1436:ARG:O	2.23	0.71
7:5B:1436:ARG:NE	7:5B:1436:ARG:O	2.23	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:801:LEU:HD23	7:5C:801:LEU:N	2.04	0.71
9:7C:15:VAL:CA	9:7D:35:ILE:HD12	2.02	0.71
1:BC:141:VAL:HG11	1:BC:172:TYR:HD1	1.53	0.71
2:DF:86:ARG:N	2:EF:281:TYR:CE1	2.58	0.71
1:EA:396:ASP:CG	7:5C:821:LEU:HD11	2.16	0.71
1:FA:207:GLU:OE1	7:5C:915:PHE:HD2	1.74	0.71
1:FE:222:PRO:HD2	2:FF:324:LYS:HD3	1.71	0.71
2:IB:177:ASP:CB	1:IC:353:VAL:HG12	2.20	0.71
2:ID:98:GLY:CA	1:IE:254:GLU:CG	2.48	0.71
1:IE:279:GLU:CD	10:8X:22:UNK:HA	2.09	0.71
1:JC:71:GLU:OE1	2:JD:247:ASN:ND2	2.22	0.71
4:2B:164:ARG:NH1	4:2B:164:ARG:HB2	2.05	0.71
6:4B:289:LYS:HE3	6:4B:289:LYS:CA	2.08	0.71
7:5C:1436:ARG:HH11	7:5C:1436:ARG:CG	2.02	0.71
2:EB:157:GLU:OE1	7:5C:935:LYS:CE	2.38	0.71
2:FB:177:ASP:CA	1:FC:353:VAL:HG12	2.20	0.71
2:FB:208:TYR:OH	1:FC:325:PRO:HB2	1.91	0.71
2:GB:179:VAL:CG2	1:GC:258:ASN:HA	2.21	0.71
1:KE:11:GLN:NE2	2:KF:247:ASN:OD1	2.23	0.71
2:KF:276:ARG:NH2	6:4D:266:ASN:N	2.38	0.71
1:MC:141:VAL:HG11	1:MC:172:TYR:HD1	1.53	0.71
1:MC:224:TYR:HE2	2:MD:246:LEU:HD11	1.56	0.71
1:ME:141:VAL:HG11	1:ME:172:TYR:HD1	1.54	0.71
6:4D:107:MET:HG3	6:4D:110:LYS:HE3	1.71	0.71
7:5B:836:ARG:HH11	7:5B:836:ARG:CG	2.03	0.71
7:5B:1416:LYS:HA	7:5B:1416:LYS:HZ3	1.53	0.71
7:5C:1541:ILE:HG12	7:5C:1574:ILE:CD1	2.21	0.71
1:CC:71:GLU:OE1	2:CD:247:ASN:ND2	2.24	0.71
1:EA:430:LYS:HZ3	7:5C:834:ASN:ND2	1.23	0.71
2:EF:157:GLU:HA	7:5B:945:LYS:HZ3	1.55	0.71
1:FA:89:PRO:CD	1:GA:280:LYS:CE	2.64	0.71
2:GB:55:THR:HG22	2:HB:283:ALA:HB1	1.70	0.71
1:IE:141:VAL:HG11	1:IE:172:TYR:HD1	1.54	0.71
2:JB:179:VAL:CG2	1:JC:258:ASN:HA	2.21	0.71
2:KB:162:ARG:HG3	4:2C:36:THR:HB	1.72	0.71
2:KD:276:ARG:NH2	6:4B:266:ASN:N	2.39	0.71
2:LD:276:ARG:NH1	6:4B:229:GLU:CA	2.33	0.71
1:ME:279:GLU:OE1	6:4B:106:ALA:C	2.33	0.71
6:4C:107:MET:HG3	6:4C:110:LYS:HE3	1.71	0.71
7:5A:1541:ILE:HG12	7:5A:1574:ILE:CD1	2.21	0.71
7:5B:1152:GLU:CD	8:6B:66:ARG:HH12	1.98	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1544:ILE:C	7:5C:1570:ALA:CA	2.49	0.71
2:CD:177:ASP:O	1:CE:352:LYS:HA	1.90	0.71
1:EC:426:ALA:CB	7:5A:833:PHE:HB2	2.20	0.71
1:FA:101:ASN:HD21	2:FB:252:LYS:CD	1.82	0.71
1:FE:207:GLU:OE1	7:5B:915:PHE:CB	2.36	0.71
2:GD:177:ASP:CB	1:GE:353:VAL:HG12	2.20	0.71
1:GE:56:THR:O	1:HE:285:GLN:HA	1.89	0.71
1:HC:410:GLY:CA	5:3C:329:ARG:HH21	2.03	0.71
1:IE:393:HIS:HB3	5:3A:308:PHE:HE2	1.55	0.71
1:JE:89:PRO:CD	1:KE:280:LYS:HA	2.20	0.71
1:KC:85:GLN:NE2	1:LC:282:TYR:HB2	2.03	0.71
6:4A:107:MET:HG3	6:4A:110:LYS:HE3	1.72	0.71
7:5A:1487:ASN:HB3	7:5A:1568:LYS:CD	2.21	0.71
7:5A:1552:LYS:HZ1	7:5A:1563:SER:HB3	1.53	0.71
8:6A:136:LEU:HD23	8:6A:140:GLN:HB2	1.71	0.71
9:7E:7:LEU:CD2	9:7F:27:GLY:HA3	2.01	0.71
2:AB:179:VAL:CG2	1:AC:258:ASN:HA	2.21	0.71
1:AE:11:GLN:NE2	2:AF:247:ASN:OD1	2.23	0.71
1:BC:222:PRO:CD	2:BD:324:LYS:HD3	2.19	0.71
2:CB:220:PRO:HD2	1:CC:326:LYS:CG	2.20	0.71
2:DD:397:TRP:CE3	1:DE:257:THR:HG23	2.25	0.71
2:GD:54:ALA:HB1	2:HD:281:TYR:O	1.90	0.71
2:HD:98:GLY:CA	1:HE:254:GLU:CG	2.48	0.71
2:IB:179:VAL:CG2	1:IC:258:ASN:HA	2.21	0.71
1:LE:60:LYS:NZ	1:ME:283:HIS:CG	2.58	0.71
1:MA:141:VAL:HG11	1:MA:172:TYR:HD1	1.53	0.71
1:MC:404:PHE:HE2	2:MD:345:ILE:HD12	1.54	0.71
7:5A:1425:LYS:HZ1	7:5A:1429:GLN:HB2	1.53	0.71
7:5B:1541:ILE:HG12	7:5B:1574:ILE:CD1	2.21	0.71
7:5C:1487:ASN:HB3	7:5C:1568:LYS:CD	2.21	0.71
8:6C:136:LEU:HD23	8:6C:140:GLN:HB2	1.71	0.71
2:FB:212:PHE:HZ	1:FC:326:LYS:CE	2.04	0.71
2:HB:98:GLY:CA	1:HC:254:GLU:CG	2.48	0.71
1:IA:279:GLU:HA	10:8V:22:UNK:CB	2.21	0.71
1:IC:393:HIS:HB3	5:3C:308:PHE:CE2	2.25	0.71
2:IF:56:GLY:H	10:9A:36:UNK:HA	1.56	0.71
2:JD:86:ARG:NH1	2:KD:280:GLN:O	2.24	0.71
1:KE:85:GLN:CD	1:LE:282:TYR:CB	2.64	0.71
2:LB:55:THR:HG23	2:MB:283:ALA:C	2.10	0.71
2:LB:379:LYS:CA	4:2C:166:ILE:HD13	1.76	0.71
7:5A:1089:PHE:CE1	7:5A:1101:LEU:CD2	2.74	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:841:VAL:HG23	8:6C:11:PRO:HG3	1.71	0.71
7:5C:1089:PHE:CE1	7:5C:1101:LEU:CD2	2.74	0.71
7:5C:1487:ASN:OD1	7:5C:1568:LYS:HG2	1.85	0.71
8:6B:136:LEU:HD23	8:6B:140:GLN:HB2	1.72	0.71
1:FE:404:PHE:HE2	2:FF:345:ILE:CD1	2.04	0.70
2:HB:179:VAL:CG2	1:HC:258:ASN:HA	2.21	0.70
1:IC:401:LYS:CE	2:ID:344:TRP:CZ3	2.62	0.70
2:ID:177:ASP:CB	1:IE:353:VAL:HG12	2.20	0.70
2:ID:178:THR:HG23	1:IE:258:ASN:ND2	2.05	0.70
1:KE:85:GLN:HG2	1:LE:283:HIS:HD2	1.55	0.70
2:LB:55:THR:HG23	2:MB:283:ALA:HA	0.71	0.70
1:LC:35:GLN:HE21	6:4A:101:ARG:HB2	1.54	0.70
7:5A:1416:LYS:HA	7:5A:1416:LYS:HZ3	1.53	0.70
1:AC:342:GLN:NE2	3:1C:55:HIS:CE1	2.58	0.70
2:CB:86:ARG:CG	2:DB:281:TYR:CE1	2.39	0.70
1:EC:426:ALA:HB3	7:5A:833:PHE:HB2	1.73	0.70
2:FB:332:ASN:CG	7:5C:909:ASN:HD21	1.99	0.70
2:HD:178:THR:HG23	1:HE:258:ASN:ND2	2.06	0.70
2:JD:178:THR:HG23	1:JE:258:ASN:ND2	2.05	0.70
2:KB:54:ALA:HA	2:LB:285:THR:HG22	1.72	0.70
1:LA:89:PRO:HG2	1:MA:280:LYS:HD2	1.73	0.70
6:4C:285:ARG:HB3	6:4C:285:ARG:HH11	1.53	0.70
7:5B:1521:PHE:CE1	7:5B:1570:ALA:HB3	2.26	0.70
2:ED:125:GLU:CB	7:5A:903:PHE:CD2	2.72	0.70
2:FD:331:LEU:HD22	7:5A:915:PHE:CE2	2.25	0.70
2:FD:332:ASN:ND2	7:5A:909:ASN:OD1	2.24	0.70
2:GD:178:THR:HG23	1:GE:258:ASN:ND2	2.05	0.70
2:KD:178:THR:HG23	1:KE:258:ASN:ND2	2.05	0.70
1:KE:85:GLN:HA	1:LE:283:HIS:HA	0.79	0.70
1:LA:60:LYS:NZ	1:MA:283:HIS:CG	2.52	0.70
2:LB:54:ALA:CB	2:MB:281:TYR:O	2.40	0.70
2:LD:223:GLY:HA3	6:4B:219:ASN:HA	1.71	0.70
2:LD:294:PHE:HD2	4:2A:147:PHE:CZ	2.09	0.70
1:LE:60:LYS:CD	6:4B:101:ARG:CZ	2.54	0.70
6:4A:285:ARG:HB3	6:4A:285:ARG:HH11	1.53	0.70
7:5A:1521:PHE:CE1	7:5A:1570:ALA:HB3	2.26	0.70
7:5B:874:GLN:HB2	8:6B:59:LYS:HZ2	1.53	0.70
7:5C:1521:PHE:CE1	7:5C:1570:ALA:HB3	2.26	0.70
1:DA:401:LYS:HE2	2:DB:344:TRP:CE3	2.24	0.70
1:FC:419:SER:HB2	7:5A:1256:ARG:HE	0.64	0.70
2:GD:86:ARG:NH2	2:HD:281:TYR:CE2	2.47	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HB:212:PHE:CZ	1:HC:326:LYS:CD	2.31	0.70
1:HC:420:GLU:OE1	5:3C:215:TYR:CE1	2.43	0.70
2:IB:362:LYS:NZ	10:8V:36:UNK:O	2.21	0.70
2:KB:179:VAL:CG2	1:KC:258:ASN:HA	2.21	0.70
1:KE:359:PRO:HB3	6:4B:299:TYR:CZ	2.25	0.70
2:KF:276:ARG:CZ	6:4D:271:GLU:C	2.59	0.70
2:LD:227:HIS:ND1	6:4B:226:ILE:HG13	2.04	0.70
1:LE:224:TYR:CE2	2:LF:246:LEU:HD11	2.24	0.70
1:ME:11:GLN:NE2	2:MF:247:ASN:OD1	2.25	0.70
6:4C:184:GLU:HA	6:4C:184:GLU:OE1	1.90	0.70
7:5A:1436:ARG:HH11	7:5A:1436:ARG:CB	2.05	0.70
7:5B:1521:PHE:CE1	7:5B:1570:ALA:CB	2.74	0.70
7:5C:1436:ARG:HH11	7:5C:1436:ARG:CB	2.05	0.70
7:5C:1521:PHE:CE1	7:5C:1570:ALA:CB	2.74	0.70
2:AD:40:SER:HB2	6:4C:152:PHE:CD2	2.25	0.70
1:CE:282:TYR:CE2	10:8F:18:UNK:CA	2.72	0.70
1:HE:416:GLY:CA	5:3A:238:ILE:HD11	2.21	0.70
2:KB:227:HIS:HB3	6:4A:267:ILE:HD11	1.73	0.70
1:KE:62:VAL:CG2	1:LE:285:GLN:HB3	2.21	0.70
2:LB:379:LYS:HZ1	4:2C:166:ILE:N	1.88	0.70
7:5A:1089:PHE:CE1	7:5A:1101:LEU:HD22	2.26	0.70
7:5A:1521:PHE:CE1	7:5A:1570:ALA:CB	2.74	0.70
7:5B:1089:PHE:CE1	7:5B:1101:LEU:CD2	2.74	0.70
7:5B:1436:ARG:HH11	7:5B:1436:ARG:CB	2.05	0.70
7:5C:1089:PHE:CE1	7:5C:1101:LEU:HD22	2.26	0.70
9:7E:7:LEU:CD2	9:7F:27:GLY:C	2.63	0.70
1:DE:282:TYR:CD2	10:8I:18:UNK:CB	2.74	0.70
2:IB:5:VAL:HG12	2:IB:62:ARG:HD3	1.74	0.70
2:JB:88:ASP:CB	2:KB:278:SER:OG	2.36	0.70
2:KB:215:LEU:HD13	6:4A:267:ILE:CB	2.20	0.70
2:KF:77:ARG:CG	2:LF:281:TYR:OH	2.33	0.70
1:LA:245:ASP:CG	6:4C:216:ARG:HE	1.99	0.70
2:LD:306:ARG:HH12	4:2A:151:VAL:CG2	2.03	0.70
2:MB:111:GLU:CG	3:1A:62:SER:HA	2.22	0.70
7:5B:1089:PHE:CE1	7:5B:1101:LEU:HD22	2.26	0.70
2:AD:212:PHE:CZ	1:AE:326:LYS:CD	2.34	0.70
1:DC:222:PRO:HD2	2:DD:324:LYS:HD3	1.72	0.70
2:DD:220:PRO:HD2	1:DE:326:LYS:CE	2.20	0.70
1:FA:207:GLU:OE1	7:5C:915:PHE:CB	2.38	0.70
1:FA:404:PHE:CE2	2:FB:345:ILE:CD1	2.74	0.70
1:FE:222:PRO:CG	2:FF:324:LYS:CD	2.69	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FF:55:THR:CG2	2:GF:284:LEU:N	2.53	0.70
2:HD:5:VAL:HG12	2:HD:62:ARG:HD3	1.74	0.70
2:ID:5:VAL:HG12	2:ID:62:ARG:HD3	1.74	0.70
2:JB:5:VAL:HG12	2:JB:62:ARG:HD3	1.74	0.70
2:JD:5:VAL:HG12	2:JD:62:ARG:HD3	1.74	0.70
2:KF:276:ARG:NE	6:4D:265:TYR:HB2	2.07	0.70
2:KF:276:ARG:HH22	6:4D:266:ASN:H	1.40	0.70
1:LA:407:TRP:CE3	2:LB:255:VAL:HG22	2.20	0.70
1:MA:372:MET:HE2	6:4C:96:VAL:CA	2.22	0.70
6:4A:134:LEU:C	6:4A:134:LEU:HD12	2.17	0.70
6:4B:285:ARG:HB3	6:4B:285:ARG:HH11	1.53	0.70
6:4C:134:LEU:C	6:4C:134:LEU:HD12	2.17	0.70
6:4D:293:ASP:HA	6:4D:296:ASN:HB2	1.74	0.70
10:8G:38:UNK:C	10:8H:1:UNK:CA	2.69	0.70
1:EA:404:PHE:HE2	2:EB:345:ILE:CD1	2.05	0.70
2:HB:5:VAL:HG12	2:HB:62:ARG:HD3	1.74	0.70
1:HE:282:TYR:CE1	10:8U:15:UNK:O	2.44	0.70
1:IC:402:ARG:HH21	7:5A:1417:GLN:HG3	1.37	0.70
2:IF:5:VAL:HG12	2:IF:62:ARG:HD3	1.74	0.70
2:IF:87:PRO:HD2	2:JF:281:TYR:CE2	2.26	0.70
1:LE:221:ARG:HH11	2:LF:324:LYS:N	1.90	0.70
6:4B:134:LEU:C	6:4B:134:LEU:HD12	2.17	0.70
6:4B:293:ASP:HA	6:4B:296:ASN:HB2	1.74	0.70
6:4C:115:LYS:HA	6:4C:118:ILE:HD12	1.74	0.70
7:5A:1544:ILE:C	7:5A:1570:ALA:CA	2.49	0.70
7:5C:866:TYR:HB2	7:5C:954:ILE:CG2	2.22	0.70
7:5C:1381:ILE:HD12	7:5C:1381:ILE:N	2.05	0.70
10:8D:38:UNK:C	10:8E:1:UNK:CA	2.69	0.70
10:8J:38:UNK:C	10:8K:1:UNK:CA	2.69	0.70
2:CB:5:VAL:HG12	2:CB:62:ARG:HD3	1.74	0.70
2:CD:86:ARG:N	2:DD:281:TYR:CE1	2.59	0.70
1:CE:11:GLN:OE1	2:CF:245:GLN:O	2.09	0.70
2:DB:5:VAL:HG12	2:DB:62:ARG:HD3	1.74	0.70
1:EA:101:ASN:HD21	2:EB:252:LYS:HD2	0.87	0.70
1:EC:105:ARG:NH1	2:ED:251:ARG:HD3	2.07	0.70
2:FF:5:VAL:HG12	2:FF:62:ARG:HD3	1.74	0.70
1:IE:393:HIS:CB	5:3A:308:PHE:CE2	2.75	0.70
1:JC:401:LYS:CE	2:JD:344:TRP:CZ3	2.62	0.70
2:JF:85:PHE:HB3	2:KF:281:TYR:OH	1.91	0.70
2:KB:77:ARG:HG2	2:LB:281:TYR:CE2	2.18	0.70
2:KD:212:PHE:CZ	1:KE:326:LYS:CD	2.34	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:5:VAL:HG12	2:KF:62:ARG:HD3	1.74	0.70
2:KF:276:ARG:NH2	6:4D:265:TYR:HA	2.05	0.70
2:LB:220:PRO:O	1:LC:324:VAL:CG1	2.39	0.70
1:LE:401:LYS:NZ	2:LF:344:TRP:CH2	2.60	0.70
2:LF:5:VAL:HG12	2:LF:62:ARG:HD3	1.74	0.70
1:MA:279:GLU:CD	6:4C:106:ALA:HB3	2.17	0.70
2:MB:179:VAL:CG2	1:MC:258:ASN:HA	2.22	0.70
2:MF:5:VAL:HG12	2:MF:62:ARG:HD3	1.74	0.70
6:4A:115:LYS:HA	6:4A:118:ILE:HD12	1.74	0.70
6:4A:184:GLU:HA	6:4A:184:GLU:OE1	1.90	0.70
6:4A:293:ASP:HA	6:4A:296:ASN:HB2	1.74	0.70
6:4B:115:LYS:HA	6:4B:118:ILE:HD12	1.74	0.70
7:5A:866:TYR:HB2	7:5A:954:ILE:CG2	2.22	0.70
7:5A:1253:ILE:HD11	9:7B:20:LEU:HD13	1.72	0.70
7:5A:1381:ILE:HD12	7:5A:1381:ILE:N	2.04	0.70
7:5B:1275:ILE:HG21	9:7D:11:TYR:HH	1.57	0.70
7:5C:874:GLN:CB	8:6C:59:LYS:HZ3	2.04	0.70
7:5C:890:ILE:HD13	7:5C:1072:PHE:CE1	2.27	0.70
9:7A:30:ARG:NH1	9:7B:3:GLN:CB	2.54	0.70
10:8M:38:UNK:C	10:8N:1:UNK:CA	2.69	0.70
2:AD:178:THR:HG23	1:AE:258:ASN:ND2	2.05	0.70
2:BD:86:ARG:CA	2:CD:281:TYR:CE1	2.61	0.70
2:BF:5:VAL:HG12	2:BF:62:ARG:HD3	1.74	0.70
2:DD:5:VAL:HG12	2:DD:62:ARG:HD3	1.74	0.70
2:DF:5:VAL:HG12	2:DF:62:ARG:HD3	1.74	0.70
2:ED:5:VAL:HG12	2:ED:62:ARG:HD3	1.74	0.70
2:EF:5:VAL:HG12	2:EF:62:ARG:HD3	1.74	0.70
2:FB:5:VAL:HG12	2:FB:62:ARG:HD3	1.74	0.70
2:FD:5:VAL:HG12	2:FD:62:ARG:HD3	1.74	0.70
2:FD:177:ASP:O	1:FE:352:LYS:HA	1.92	0.70
1:FE:60:LYS:CE	1:GE:283:HIS:CD2	2.75	0.70
2:GD:212:PHE:CZ	1:GE:326:LYS:CD	2.34	0.70
2:HB:397:TRP:CB	1:HC:256:GLN:HE22	2.04	0.70
2:HF:5:VAL:HG12	2:HF:62:ARG:HD3	1.74	0.70
2:IB:178:THR:HG23	1:IC:258:ASN:ND2	2.06	0.70
2:JF:5:VAL:HG12	2:JF:62:ARG:HD3	1.74	0.70
1:KA:124:LYS:CD	1:LA:290:GLU:HA	2.21	0.70
2:KD:5:VAL:HG12	2:KD:62:ARG:HD3	1.74	0.70
1:LC:407:TRP:CE3	2:LD:255:VAL:HG22	2.22	0.70
2:LD:5:VAL:HG12	2:LD:62:ARG:HD3	1.74	0.70
2:LD:77:ARG:NH1	6:4B:204:ARG:HH22	1.86	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4C:293:ASP:HA	6:4C:296:ASN:HB2	1.74	0.70
6:4D:115:LYS:HA	6:4D:118:ILE:HD12	1.74	0.70
6:4D:134:LEU:C	6:4D:134:LEU:HD12	2.17	0.70
7:5B:866:TYR:HB2	7:5B:954:ILE:CG2	2.22	0.70
7:5B:1423:LYS:HA	7:5B:1423:LYS:HZ3	1.57	0.70
9:7A:18:VAL:HG11	9:7A:42:LEU:CD2	2.21	0.70
9:7E:39:GLY:HA3	9:7F:43:LEU:CG	2.22	0.70
10:8A:38:UNK:C	10:8B:1:UNK:CA	2.70	0.70
2:AD:223:GLY:HA3	6:4C:131:VAL:CB	2.17	0.69
2:BD:5:VAL:HG12	2:BD:62:ARG:HD3	1.74	0.69
2:CD:5:VAL:HG12	2:CD:62:ARG:HD3	1.74	0.69
2:CF:5:VAL:HG12	2:CF:62:ARG:HD3	1.74	0.69
1:FA:404:PHE:HE2	2:FB:345:ILE:HD12	1.56	0.69
2:GB:212:PHE:CE2	1:GC:326:LYS:HD3	2.22	0.69
2:GF:86:ARG:NH2	2:HF:281:TYR:CD2	2.45	0.69
1:HA:278:ALA:CB	10:8S:22:UNK:N	2.55	0.69
2:KD:54:ALA:CA	2:LD:285:THR:HG22	2.22	0.69
2:KD:83:GLN:HA	2:LD:281:TYR:CE1	2.27	0.69
2:KD:87:PRO:HG2	2:LD:282:ARG:HG2	1.72	0.69
2:LB:5:VAL:HG12	2:LB:62:ARG:HD3	1.74	0.69
1:ME:372:MET:CE	6:4B:96:VAL:CA	2.70	0.69
7:5A:890:ILE:HD13	7:5A:1072:PHE:CE1	2.27	0.69
7:5B:890:ILE:HD13	7:5B:1072:PHE:CE1	2.27	0.69
7:5B:1152:GLU:OE2	8:6B:66:ARG:NH2	2.24	0.69
7:5B:1381:ILE:HD12	7:5B:1381:ILE:N	2.05	0.69
9:7C:30:ARG:NH1	9:7D:3:GLN:CB	2.54	0.69
9:7E:35:ILE:HG23	9:7F:42:LEU:O	1.90	0.69
9:7E:36:GLN:HA	9:7F:43:LEU:HD22	1.71	0.69
10:8P:38:UNK:C	10:8Q:1:UNK:CA	2.69	0.69
2:AB:5:VAL:HG12	2:AB:62:ARG:HD3	1.74	0.69
2:AF:5:VAL:HG12	2:AF:62:ARG:HD3	1.74	0.69
2:BD:177:ASP:O	1:BE:352:LYS:HA	1.92	0.69
2:BD:208:TYR:OH	1:BE:325:PRO:HB2	1.92	0.69
2:CF:86:ARG:HH11	2:DF:281:TYR:HA	1.53	0.69
2:DB:177:ASP:OD1	1:DC:353:VAL:HG12	1.75	0.69
1:EE:404:PHE:HE2	2:EF:345:ILE:HD12	1.56	0.69
2:EF:55:THR:N	2:FF:283:ALA:HB2	2.06	0.69
2:FB:331:LEU:HD21	7:5C:915:PHE:CZ	2.25	0.69
2:FF:332:ASN:CG	7:5B:909:ASN:HD21	2.01	0.69
2:GB:5:VAL:HG12	2:GB:62:ARG:HD3	1.74	0.69
2:HB:178:THR:HG23	1:HC:258:ASN:ND2	2.06	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IC:282:TYR:CG	10:8W:15:UNK:HA	2.28	0.69
2:JB:178:THR:HG23	1:JC:258:ASN:ND2	2.06	0.69
1:LC:60:LYS:HD3	1:MC:283:HIS:HA	1.74	0.69
2:LD:215:LEU:HD13	6:4B:225:PRO:HB3	1.74	0.69
2:MD:5:VAL:HG12	2:MD:62:ARG:HD3	1.74	0.69
10:8Y:38:UNK:C	10:8Z:1:UNK:CA	2.70	0.69
2:AD:5:VAL:HG12	2:AD:62:ARG:HD3	1.74	0.69
1:AE:401:LYS:CE	2:AF:344:TRP:CZ3	2.67	0.69
2:BB:5:VAL:HG12	2:BB:62:ARG:HD3	1.74	0.69
1:DE:402:ARG:HE	7:5B:777:ALA:CB	2.02	0.69
1:DE:404:PHE:HE2	2:DF:345:ILE:CD1	2.05	0.69
1:EA:396:ASP:OD1	7:5C:821:LEU:HD11	1.91	0.69
2:EB:5:VAL:HG12	2:EB:62:ARG:HD3	1.74	0.69
1:EE:402:ARG:CZ	7:5B:824:ARG:NH2	2.54	0.69
2:EF:54:ALA:HA	2:FF:283:ALA:CB	2.21	0.69
1:GC:224:TYR:HE2	2:GD:246:LEU:HD11	1.57	0.69
2:GD:5:VAL:HG12	2:GD:62:ARG:HD3	1.74	0.69
2:KB:5:VAL:HG12	2:KB:62:ARG:HD3	1.74	0.69
2:KB:217:LEU:HD13	6:4A:263:CYS:SG	2.33	0.69
2:LB:212:PHE:HZ	1:LC:326:LYS:CE	2.04	0.69
1:LE:222:PRO:HD3	2:LF:324:LYS:HD3	1.65	0.69
2:LF:224:ASP:CA	6:4D:219:ASN:OD1	2.32	0.69
2:MB:397:TRP:CD2	1:MC:256:GLN:O	2.25	0.69
6:4B:184:GLU:HA	6:4B:184:GLU:OE1	1.90	0.69
6:4D:285:ARG:HB3	6:4D:285:ARG:HH11	1.53	0.69
7:5A:1276:GLU:HG2	9:7B:7:LEU:HD12	1.73	0.69
7:5B:1490:LYS:HA	7:5B:1494:LEU:HB3	1.74	0.69
7:5C:841:VAL:HG21	8:6C:11:PRO:HA	1.74	0.69
1:BC:11:GLN:NE2	2:BD:247:ASN:OD1	2.25	0.69
2:CB:86:ARG:N	2:DB:281:TYR:CE1	2.58	0.69
2:CB:177:ASP:O	1:CC:352:LYS:HA	1.92	0.69
1:CE:282:TYR:HE2	10:8F:18:UNK:CA	2.04	0.69
1:DA:402:ARG:CZ	7:5C:777:ALA:HB1	2.18	0.69
2:GB:178:THR:HG23	1:GC:258:ASN:ND2	2.06	0.69
1:GC:60:LYS:CD	1:HC:283:HIS:CG	2.76	0.69
2:GF:5:VAL:HG12	2:GF:62:ARG:HD3	1.74	0.69
2:KB:178:THR:HG23	1:KC:258:ASN:ND2	2.06	0.69
2:KD:125:GLU:O	4:2A:38:VAL:HA	1.93	0.69
2:KF:276:ARG:HH21	6:4D:265:TYR:HB2	1.57	0.69
1:LE:404:PHE:CE1	2:LF:259:PRO:HA	2.28	0.69
2:MB:5:VAL:HG12	2:MB:62:ARG:HD3	1.74	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4C:139:ASP:OD2	6:4C:140:PRO:CD	2.40	0.69
7:5B:1544:ILE:CA	7:5B:1573:ARG:CD	2.39	0.69
7:5C:1524:PHE:HE1	7:5C:1571:MET:HE2	1.55	0.69
10:8S:38:UNK:C	10:8T:1:UNK:CA	2.70	0.69
2:AD:362:LYS:CG	6:4C:146:ILE:HB	2.14	0.69
2:CD:178:THR:HG23	1:CE:258:ASN:ND2	2.04	0.69
2:GB:98:GLY:CA	1:GC:254:GLU:CG	2.48	0.69
1:HC:416:GLY:CA	5:3C:238:ILE:HD11	2.23	0.69
1:HE:278:ALA:HB3	10:8U:22:UNK:CB	2.21	0.69
1:IC:60:LYS:NZ	1:JC:283:HIS:CD2	2.60	0.69
1:IE:282:TYR:OH	10:8X:17:UNK:CB	2.37	0.69
1:KC:401:LYS:CE	2:KD:344:TRP:CZ3	2.62	0.69
1:KE:85:GLN:OE1	1:LE:283:HIS:N	2.25	0.69
2:LB:77:ARG:HH12	6:4A:204:ARG:HH22	1.40	0.69
1:LC:89:PRO:CG	1:MC:280:LYS:HZ1	2.06	0.69
2:LD:179:VAL:HG21	1:LE:258:ASN:C	2.16	0.69
2:MB:391:ARG:HG3	1:MC:346:TRP:CD1	2.27	0.69
7:5B:1524:PHE:HE1	7:5B:1571:MET:HE2	1.54	0.69
7:5C:1243:ASP:HB3	9:7F:8:ARG:NH1	2.07	0.69
7:5C:1490:LYS:HA	7:5C:1494:LEU:HB3	1.74	0.69
2:CD:86:ARG:CB	2:DD:281:TYR:HE1	1.85	0.69
1:GA:224:TYR:HE2	2:GB:246:LEU:HD11	1.57	0.69
2:JB:397:TRP:CB	1:JC:256:GLN:HE22	2.04	0.69
1:JC:91:GLN:H	1:KC:280:LYS:HZ2	0.73	0.69
2:KB:397:TRP:CB	1:KC:256:GLN:HE22	2.04	0.69
2:KF:339:SER:HB2	7:5B:1504:ARG:NH1	2.07	0.69
6:4A:139:ASP:OD2	6:4A:140:PRO:CD	2.40	0.69
6:4D:184:GLU:HA	6:4D:184:GLU:OE1	1.91	0.69
7:5A:1490:LYS:HA	7:5A:1494:LEU:HB3	1.74	0.69
7:5B:1552:LYS:HZ1	7:5B:1563:SER:HB3	1.54	0.69
9:7A:7:LEU:HD22	9:7B:27:GLY:HA3	0.70	0.69
9:7C:7:LEU:HD22	9:7D:27:GLY:HA3	0.70	0.69
2:AD:321:MET:C	6:4C:156:PHE:CD2	2.70	0.69
1:BA:222:PRO:CD	2:BB:324:LYS:HD3	2.22	0.69
2:BB:177:ASP:CB	1:BC:353:VAL:HG12	2.22	0.69
2:DD:85:PHE:C	2:ED:281:TYR:CZ	2.71	0.69
2:DD:86:ARG:CA	2:ED:281:TYR:CZ	2.66	0.69
1:FC:178:SER:OG	2:FD:347:ASN:HB3	1.92	0.69
1:FE:178:SER:OG	2:FF:347:ASN:HB3	1.92	0.69
2:GD:58:ARG:NH2	2:HD:281:TYR:OH	2.26	0.69
1:GE:60:LYS:HD2	1:HE:283:HIS:CD2	2.28	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:222:PRO:HG3	2:LB:324:LYS:HD2	1.73	0.69
2:LF:224:ASP:HA	6:4D:219:ASN:OD1	1.92	0.69
1:MC:11:GLN:NE2	2:MD:247:ASN:OD1	2.26	0.69
1:MC:100:ALA:HB1	2:MD:252:LYS:HA	1.74	0.69
1:MC:282:TYR:CD2	6:4A:104:ARG:CD	2.62	0.69
6:4B:139:ASP:OD2	6:4B:140:PRO:CD	2.40	0.69
7:5A:1126:PRO:CD	8:6A:246:TYR:OH	2.40	0.69
7:5C:1544:ILE:CD1	7:5C:1574:ILE:CG1	2.61	0.69
9:7D:18:VAL:HG12	9:7D:42:LEU:HD23	1.72	0.69
9:7E:18:VAL:HG21	9:7F:35:ILE:HG21	1.75	0.69
2:CB:177:ASP:CB	1:CC:353:VAL:HG12	2.23	0.69
1:DA:402:ARG:HE	7:5C:777:ALA:HB2	1.45	0.69
1:EE:62:VAL:HG21	1:FE:283:HIS:O	1.93	0.69
1:EE:404:PHE:CE2	2:EF:345:ILE:CD1	2.75	0.69
1:FC:207:GLU:OE1	7:5A:915:PHE:CB	2.38	0.69
2:GD:98:GLY:CA	1:GE:254:GLU:CG	2.48	0.69
1:HE:419:SER:HG	5:3A:238:ILE:CD1	2.04	0.69
2:IB:397:TRP:CB	1:IC:256:GLN:HE22	2.04	0.69
2:JB:86:ARG:NH1	2:KB:280:GLN:O	2.26	0.69
1:JC:89:PRO:HG2	1:KC:280:LYS:CG	2.20	0.69
2:JD:88:ASP:HB2	2:KD:278:SER:CB	2.22	0.69
2:KD:159:TYR:CE2	4:2A:35:VAL:C	2.68	0.69
2:KD:276:ARG:CZ	6:4B:271:GLU:O	2.34	0.69
2:KF:118:ASP:CG	4:2B:148:ASN:HD21	2.00	0.69
2:LB:337:ASN:HD21	4:2C:148:ASN:HB2	1.57	0.69
4:2C:162:GLN:HA	4:2C:162:GLN:NE2	2.04	0.69
6:4D:139:ASP:OD2	6:4D:140:PRO:CD	2.40	0.69
7:5A:1524:PHE:HE1	7:5A:1571:MET:HE2	1.55	0.69
7:5B:1544:ILE:C	7:5B:1570:ALA:CA	2.49	0.69
7:5C:1416:LYS:HA	7:5C:1416:LYS:HZ3	1.54	0.69
9:7F:18:VAL:HG12	9:7F:42:LEU:HD23	1.72	0.69
2:AB:178:THR:HG23	1:AC:258:ASN:ND2	2.06	0.69
1:BA:11:GLN:NE2	2:BB:247:ASN:OD1	2.26	0.69
1:BC:401:LYS:CE	2:BD:344:TRP:CZ3	2.68	0.69
2:BD:220:PRO:CD	1:BE:326:LYS:HE2	2.22	0.69
2:EB:54:ALA:CB	2:FB:281:TYR:O	2.41	0.69
2:EB:178:THR:HG23	1:EC:258:ASN:ND2	2.05	0.69
1:FC:419:SER:OG	7:5A:1256:ARG:HD3	1.93	0.69
1:GA:60:LYS:CD	1:HA:283:HIS:CD2	2.76	0.69
1:IC:278:ALA:CB	10:8W:21:UNK:CA	2.71	0.69
1:IE:393:HIS:HB3	5:3A:308:PHE:CD2	2.28	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JC:90:GLU:HG2	1:KC:280:LYS:HB3	1.74	0.69
4:2A:16:GLN:CB	4:2A:19:MET:HB2	2.22	0.69
4:2A:162:GLN:HA	4:2A:162:GLN:NE2	2.05	0.69
4:2C:16:GLN:CB	4:2C:19:MET:HB2	2.22	0.69
5:3C:224:ASP:N	5:3C:335:LYS:NZ	2.41	0.69
9:7A:11:TYR:CE1	9:7B:26:LEU:CG	2.71	0.69
9:7C:39:GLY:HA3	9:7D:43:LEU:HG	1.74	0.69
1:AE:342:GLN:HE22	3:1A:55:HIS:CE1	2.06	0.69
1:EA:396:ASP:CG	7:5C:817:LEU:HD23	2.18	0.69
1:EC:430:LYS:NZ	7:5A:834:ASN:ND2	0.71	0.69
1:FC:56:THR:O	1:GC:285:GLN:HA	1.93	0.69
1:IC:389:SER:HB2	5:3C:307:LYS:CB	2.23	0.69
1:LC:89:PRO:CD	1:MC:280:LYS:CD	2.70	0.69
1:LC:404:PHE:CE1	2:LD:259:PRO:HA	2.28	0.69
2:LF:306:ARG:HH21	4:2B:149:ILE:HG22	1.58	0.69
2:MD:221:THR:CG2	6:4B:189:ARG:HH12	2.05	0.69
4:2B:162:GLN:HA	4:2B:162:GLN:NE2	2.05	0.69
7:5B:1548:VAL:CG1	7:5B:1569:GLU:HB2	2.11	0.69
9:7C:11:TYR:CE1	9:7D:26:LEU:CB	2.41	0.69
1:BA:404:PHE:HE2	2:BB:345:ILE:CD1	2.05	0.68
1:DC:404:PHE:HE2	2:DD:345:ILE:CD1	2.06	0.68
1:EC:430:LYS:HZ2	7:5A:834:ASN:CB	2.05	0.68
2:GB:397:TRP:CB	1:GC:256:GLN:HE22	2.04	0.68
2:ID:87:PRO:HD2	2:JD:281:TYR:CZ	2.27	0.68
1:KE:85:GLN:HG2	1:LE:283:HIS:CD2	2.28	0.68
5:3B:233:ASP:H	5:3B:336:ASN:HD21	1.40	0.68
7:5A:841:VAL:HG23	8:6A:11:PRO:HG3	1.75	0.68
7:5B:839:GLU:CD	8:6B:107:PRO:O	2.36	0.68
1:CA:11:GLN:OE1	2:CB:245:GLN:O	2.10	0.68
1:DE:400:ALA:C	7:5B:775:PRO:CB	2.63	0.68
1:FA:60:LYS:CD	1:GA:283:HIS:HD2	1.98	0.68
2:LD:55:THR:HG21	2:MD:284:LEU:N	2.05	0.68
2:LF:77:ARG:NH1	6:4D:204:ARG:HH22	1.84	0.68
1:MA:372:MET:CE	6:4C:96:VAL:CA	2.72	0.68
1:ME:224:TYR:HE2	2:MF:246:LEU:HD11	1.59	0.68
4:2B:16:GLN:CB	4:2B:19:MET:HB2	2.22	0.68
6:4B:107:MET:HG3	6:4B:110:LYS:HE3	1.72	0.68
7:5A:1544:ILE:CA	7:5A:1573:ARG:CD	2.39	0.68
7:5B:1434:LYS:HA	7:5B:1434:LYS:HE3	1.75	0.68
7:5C:1482:SER:CA	7:5C:1485:LYS:HB2	2.16	0.68
9:7B:18:VAL:HG12	9:7B:42:LEU:HD23	1.72	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DE:400:ALA:O	7:5B:775:PRO:CA	2.40	0.68
1:FC:222:PRO:CG	2:FD:324:LYS:CD	2.68	0.68
2:ID:424:GLN:CD	7:5A:1413:GLN:HE22	1.81	0.68
1:IE:389:SER:HB3	5:3A:307:LYS:HD3	1.73	0.68
1:JA:279:GLU:OE1	10:8Y:22:UNK:CB	2.42	0.68
2:LB:55:THR:CG2	2:MB:283:ALA:HB1	2.19	0.68
1:LC:60:LYS:HD3	1:MC:283:HIS:CB	2.22	0.68
1:MA:279:GLU:CG	6:4C:110:LYS:CE	2.70	0.68
2:MD:177:ASP:O	1:ME:352:LYS:CD	2.33	0.68
5:3A:233:ASP:H	5:3A:336:ASN:HD21	1.40	0.68
7:5A:843:LEU:O	7:5A:843:LEU:HD23	1.93	0.68
8:6C:202:GLU:OE2	8:6C:218:LEU:HB2	1.93	0.68
10:8V:38:UNK:C	10:8W:1:UNK:CA	2.70	0.68
2:AB:55:THR:CG2	2:BB:283:ALA:CB	2.69	0.68
1:AC:224:TYR:HE2	2:AD:246:LEU:HD11	1.57	0.68
1:CE:222:PRO:HD2	2:CF:324:LYS:HD3	1.75	0.68
1:EE:430:LYS:HZ3	7:5B:834:ASN:ND2	1.19	0.68
1:HC:224:TYR:HE2	2:HD:246:LEU:HD11	1.57	0.68
2:HD:177:ASP:O	1:HE:352:LYS:CD	2.34	0.68
2:IB:86:ARG:CA	2:JB:281:TYR:HE1	2.04	0.68
2:IB:87:PRO:HD2	2:JB:281:TYR:CE2	2.27	0.68
1:JC:224:TYR:HE2	2:JD:246:LEU:HD11	1.57	0.68
1:KA:224:TYR:HE2	2:KB:246:LEU:HD11	1.57	0.68
1:LA:407:TRP:HE3	2:LB:255:VAL:HG13	1.55	0.68
2:LB:179:VAL:CG2	1:LC:258:ASN:CA	2.72	0.68
1:LC:222:PRO:HG3	2:LD:324:LYS:HD2	1.73	0.68
2:LD:390:ARG:HD2	1:LE:439:THR:HG21	1.74	0.68
1:ME:279:GLU:OE2	6:4B:106:ALA:CB	2.41	0.68
7:5A:1434:LYS:HA	7:5A:1434:LYS:HE3	1.75	0.68
7:5B:843:LEU:O	7:5B:843:LEU:HD23	1.93	0.68
7:5B:1401:LYS:HD3	7:5B:1401:LYS:N	2.07	0.68
7:5C:843:LEU:O	7:5C:843:LEU:HD23	1.94	0.68
7:5C:1243:ASP:CB	9:7F:8:ARG:HH12	2.05	0.68
8:6A:202:GLU:OE2	8:6A:218:LEU:HB2	1.93	0.68
9:7E:18:VAL:HG11	9:7E:42:LEU:CD2	2.21	0.68
2:AD:356:ILE:CD1	6:4C:152:PHE:CE1	2.69	0.68
1:EA:282:TYR:CD2	10:8J:18:UNK:CB	2.74	0.68
2:FD:212:PHE:HZ	1:FE:326:LYS:CE	2.06	0.68
1:LC:401:LYS:NZ	2:LD:344:TRP:CZ3	2.60	0.68
1:LE:245:ASP:OD1	6:4B:216:ARG:CZ	2.42	0.68
2:LF:224:ASP:CA	6:4D:219:ASN:CG	2.67	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LF:306:ARG:NH1	4:2B:151:VAL:HG21	2.07	0.68
2:MD:178:THR:HG23	1:ME:258:ASN:ND2	2.06	0.68
4:2A:16:GLN:O	4:2A:19:MET:CA	2.42	0.68
4:2B:16:GLN:O	4:2B:19:MET:CA	2.42	0.68
6:4C:291:LYS:HA	6:4C:294:LEU:HD12	1.75	0.68
2:AF:226:ASN:HD21	13:AF:501:GDP:HN1	1.42	0.68
1:DC:11:GLN:OE1	2:DD:245:GLN:O	2.12	0.68
1:HA:222:PRO:CD	2:HB:324:LYS:HD3	2.24	0.68
1:HA:401:LYS:CE	2:HB:344:TRP:CZ3	2.67	0.68
2:IB:212:PHE:CZ	1:IC:326:LYS:CD	2.31	0.68
2:JF:88:ASP:CG	2:KF:278:SER:HG	2.01	0.68
1:KA:359:PRO:HB3	6:4C:299:TYR:HE2	1.53	0.68
1:LA:35:GLN:NE2	6:4C:101:ARG:HB2	2.07	0.68
2:LB:331:LEU:CG	4:2C:42:PHE:HE1	2.07	0.68
2:LF:306:ARG:CZ	4:2B:149:ILE:CG2	2.71	0.68
4:2C:16:GLN:O	4:2C:19:MET:CA	2.42	0.68
6:4A:291:LYS:HA	6:4A:294:LEU:HD12	1.75	0.68
6:4B:291:LYS:HA	6:4B:294:LEU:HD12	1.75	0.68
6:4D:291:LYS:HA	6:4D:294:LEU:HD12	1.75	0.68
7:5C:1434:LYS:HA	7:5C:1434:LYS:HE3	1.75	0.68
8:6B:202:GLU:OE2	8:6B:218:LEU:HB2	1.93	0.68
9:7C:11:TYR:CG	9:7D:23:LEU:HD22	2.29	0.68
2:AB:226:ASN:HD21	13:AB:501:GDP:HN1	1.42	0.68
2:AD:226:ASN:HD21	13:AD:501:GDP:HN1	1.42	0.68
1:BE:11:GLN:NE2	2:BF:247:ASN:OD1	2.27	0.68
1:FA:402:ARG:NH2	7:5C:1262:GLU:OE1	2.27	0.68
1:GA:60:LYS:NZ	1:HA:283:HIS:ND1	2.37	0.68
1:HA:224:TYR:HE2	2:HB:246:LEU:HD11	1.57	0.68
2:HB:177:ASP:O	1:HC:352:LYS:CD	2.35	0.68
1:HC:410:GLY:C	5:3C:329:ARG:HH22	2.01	0.68
1:IA:60:LYS:NZ	1:JA:283:HIS:NE2	2.41	0.68
2:KD:125:GLU:CB	2:LD:336:LYS:CE	2.71	0.68
2:KF:221:THR:CB	6:4D:261:SER:O	2.41	0.68
1:LC:222:PRO:HD3	2:LD:324:LYS:HD3	1.65	0.68
7:5A:1401:LYS:HD3	7:5A:1401:LYS:N	2.07	0.68
7:5B:826:LEU:HB3	7:5B:840:GLY:O	1.93	0.68
7:5B:1544:ILE:C	7:5B:1573:ARG:HD2	2.18	0.68
7:5C:1401:LYS:HD3	7:5C:1401:LYS:N	2.07	0.68
9:7A:11:TYR:CG	9:7B:23:LEU:HD22	2.29	0.68
2:DB:220:PRO:HD2	1:DC:326:LYS:CE	2.22	0.68
1:DC:101:ASN:HD21	2:DD:252:LYS:HD2	0.86	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EE:100:ALA:HB1	2:EF:252:LYS:HA	1.76	0.68
1:FA:178:SER:OG	2:FB:347:ASN:HB3	1.94	0.68
1:GA:222:PRO:CD	2:GB:324:LYS:HD3	2.24	0.68
1:IA:222:PRO:CD	2:IB:324:LYS:HD3	2.24	0.68
1:IA:224:TYR:HE2	2:IB:246:LEU:HD11	1.57	0.68
1:JA:222:PRO:CD	2:JB:324:LYS:HD3	2.24	0.68
1:LC:89:PRO:CD	1:MC:280:LYS:CE	2.72	0.68
5:3C:233:ASP:H	5:3C:336:ASN:HD21	1.39	0.68
7:5A:1495:PHE:CE2	7:5A:1562:LEU:HD22	2.29	0.68
7:5A:1577:LYS:HA	7:5A:1577:LYS:CE	2.22	0.68
7:5B:1495:PHE:CE2	7:5B:1562:LEU:HD22	2.29	0.68
7:5B:1573:ARG:C	7:5B:1577:LYS:HB2	2.15	0.68
7:5B:1577:LYS:CE	7:5B:1577:LYS:HA	2.22	0.68
7:5C:1544:ILE:CA	7:5C:1573:ARG:CD	2.39	0.68
7:5C:1577:LYS:CE	7:5C:1577:LYS:HA	2.22	0.68
1:AA:401:LYS:CE	2:AB:344:TRP:CZ3	2.67	0.68
1:GE:409:VAL:CB	5:3A:383:GLU:OE1	2.42	0.68
2:KB:126:GLY:O	4:2C:39:ALA:HB2	1.92	0.68
1:LC:60:LYS:HD2	1:MC:283:HIS:CD2	2.29	0.68
1:LE:76:ASP:OD2	1:LE:79:ARG:NH2	2.27	0.68
2:LF:227:HIS:ND1	6:4D:226:ILE:HG13	2.08	0.68
7:5A:826:LEU:HB3	7:5A:840:GLY:O	1.93	0.68
7:5A:1544:ILE:C	7:5A:1573:ARG:HD2	2.18	0.68
7:5C:826:LEU:HB3	7:5C:840:GLY:O	1.93	0.68
9:7A:39:GLY:HA3	9:7B:43:LEU:HG	1.74	0.68
1:DE:11:GLN:OE1	2:DF:245:GLN:O	2.12	0.68
2:ED:54:ALA:HA	2:FD:283:ALA:CB	2.17	0.68
1:EE:76:ASP:OD2	1:EE:79:ARG:NH2	2.27	0.68
2:FD:106:TYR:CE1	7:5A:1295:LYS:N	2.60	0.68
1:FE:419:SER:C	7:5B:1256:ARG:NH2	2.51	0.68
1:GC:60:LYS:HD3	1:HC:283:HIS:HB3	1.76	0.68
1:HA:404:PHE:HE2	2:HB:345:ILE:CD1	2.07	0.68
1:IC:60:LYS:NZ	1:JC:283:HIS:NE2	2.40	0.68
1:KA:404:PHE:HE2	2:KB:345:ILE:CD1	2.07	0.68
2:LB:179:VAL:HG21	1:LC:258:ASN:C	2.18	0.68
1:MA:279:GLU:O	6:4C:107:MET:HG2	1.46	0.68
7:5C:1495:PHE:CE2	7:5C:1562:LEU:HD22	2.29	0.68
7:5C:1544:ILE:C	7:5C:1573:ARG:HD2	2.18	0.68
1:BA:76:ASP:OD2	1:BA:79:ARG:NH2	2.27	0.67
1:DC:282:TYR:CD2	10:8H:18:UNK:CB	2.76	0.67
1:EC:76:ASP:OD2	1:EC:79:ARG:NH2	2.27	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EE:222:PRO:HD2	2:EF:324:LYS:HD3	1.75	0.67
2:FF:332:ASN:ND2	7:5B:909:ASN:OD1	2.27	0.67
1:GA:76:ASP:OD2	1:GA:79:ARG:NH2	2.27	0.67
1:GC:76:ASP:OD2	1:GC:79:ARG:NH2	2.27	0.67
2:IB:87:PRO:HD2	2:JB:281:TYR:CZ	2.29	0.67
1:JE:279:GLU:OE1	10:9A:22:UNK:CA	2.41	0.67
1:KA:76:ASP:OD2	1:KA:79:ARG:NH2	2.27	0.67
2:KB:83:GLN:HA	2:LB:281:TYR:CE1	2.29	0.67
1:KC:76:ASP:OD2	1:KC:79:ARG:NH2	2.27	0.67
1:KE:76:ASP:OD2	1:KE:79:ARG:NH2	2.27	0.67
1:KE:85:GLN:C	1:LE:283:HIS:HA	2.18	0.67
1:KE:359:PRO:CG	6:4B:299:TYR:CE2	2.77	0.67
2:KF:221:THR:CB	6:4D:261:SER:C	2.63	0.67
1:LC:76:ASP:OD2	1:LC:79:ARG:NH2	2.27	0.67
9:7C:12:GLU:HA	9:7C:16:THR:OG1	1.94	0.67
9:7C:18:VAL:HG11	9:7C:42:LEU:CD2	2.21	0.67
1:AA:76:ASP:OD2	1:AA:79:ARG:NH2	2.27	0.67
1:AA:404:PHE:HE2	2:AB:345:ILE:CD1	2.07	0.67
2:AB:397:TRP:CB	1:AC:256:GLN:HE22	2.04	0.67
1:BC:76:ASP:OD2	1:BC:79:ARG:NH2	2.27	0.67
2:CD:208:TYR:OH	1:CE:325:PRO:HB2	1.94	0.67
1:DA:60:LYS:CD	1:EA:283:HIS:HD2	1.92	0.67
1:EA:76:ASP:OD2	1:EA:79:ARG:NH2	2.27	0.67
1:FC:282:TYR:CD2	10:8N:18:UNK:CB	2.73	0.67
1:FE:76:ASP:OD2	1:FE:79:ARG:NH2	2.27	0.67
1:GE:76:ASP:OD2	1:GE:79:ARG:NH2	2.27	0.67
2:HD:226:ASN:HD21	13:HD:501:GDP:HN1	1.42	0.67
1:HE:410:GLY:C	5:3A:329:ARG:HH22	2.02	0.67
1:IC:389:SER:HB2	5:3C:307:LYS:HB3	1.74	0.67
1:JA:76:ASP:OD2	1:JA:79:ARG:NH2	2.27	0.67
1:JA:224:TYR:HE2	2:JB:246:LEU:HD11	1.57	0.67
1:JA:404:PHE:HE2	2:JB:345:ILE:CD1	2.07	0.67
2:KD:221:THR:CB	6:4B:261:SER:O	2.41	0.67
1:KE:62:VAL:HG22	1:LE:285:GLN:HB3	1.74	0.67
2:LF:226:ASN:HD21	13:LF:501:GDP:HN1	1.42	0.67
1:MA:76:ASP:OD2	1:MA:79:ARG:NH2	2.27	0.67
6:4A:164:ARG:HB3	6:4A:164:ARG:HH11	1.57	0.67
6:4B:164:ARG:HB3	6:4B:164:ARG:HH11	1.57	0.67
6:4D:179:ARG:HH11	6:4D:179:ARG:HG2	1.59	0.67
7:5A:1565:GLU:HB3	7:5A:1568:LYS:HD2	1.75	0.67
7:5C:1565:GLU:HB3	7:5C:1568:LYS:HD2	1.75	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:224:TYR:HE2	2:AB:246:LEU:HD11	1.57	0.67
1:DA:402:ARG:NE	7:5C:777:ALA:HB1	2.05	0.67
2:DD:85:PHE:O	2:ED:281:TYR:CZ	2.46	0.67
1:DE:76:ASP:OD2	1:DE:79:ARG:NH2	2.27	0.67
1:EE:105:ARG:NH1	2:EF:251:ARG:HD3	2.10	0.67
2:EF:85:PHE:O	2:FF:281:TYR:OH	2.12	0.67
1:FC:76:ASP:OD2	1:FC:79:ARG:NH2	2.27	0.67
2:FF:55:THR:HG23	2:GF:283:ALA:C	2.19	0.67
1:HA:76:ASP:OD2	1:HA:79:ARG:NH2	2.27	0.67
1:HA:282:TYR:CD1	10:8S:15:UNK:HA	2.29	0.67
2:HB:226:ASN:HD21	13:HB:501:GDP:HN1	1.42	0.67
1:HE:101:ASN:HD21	2:HF:252:LYS:HD2	0.84	0.67
2:HF:226:ASN:HD21	13:HF:501:GDP:HN1	1.42	0.67
2:IB:391:ARG:HG3	1:IC:346:TRP:CD1	2.30	0.67
1:IE:101:ASN:HD21	2:IF:252:LYS:HD2	0.84	0.67
1:JE:101:ASN:HD21	2:JF:252:LYS:HD2	0.84	0.67
2:KD:217:LEU:CD2	6:4B:263:CYS:HG	2.01	0.67
1:KE:101:ASN:HD21	2:KF:252:LYS:HD2	0.84	0.67
1:LA:76:ASP:OD2	1:LA:79:ARG:NH2	2.27	0.67
1:MC:372:MET:HE2	6:4A:96:VAL:H	1.58	0.67
6:4D:164:ARG:HB3	6:4D:164:ARG:HH11	1.57	0.67
7:5A:1573:ARG:C	7:5A:1577:LYS:HB2	2.16	0.67
1:AA:222:PRO:CD	2:AB:324:LYS:HD3	2.24	0.67
1:AC:76:ASP:OD2	1:AC:79:ARG:NH2	2.27	0.67
2:AD:217:LEU:HD22	6:4C:132:LYS:HD3	1.75	0.67
1:BE:76:ASP:OD2	1:BE:79:ARG:NH2	2.27	0.67
1:CC:76:ASP:OD2	1:CC:79:ARG:NH2	2.27	0.67
1:CE:76:ASP:OD2	1:CE:79:ARG:NH2	2.27	0.67
1:FA:76:ASP:OD2	1:FA:79:ARG:NH2	2.27	0.67
1:FC:71:GLU:CD	2:FD:247:ASN:ND2	2.52	0.67
1:GC:60:LYS:HD2	1:HC:283:HIS:CD2	2.30	0.67
1:HC:76:ASP:OD2	1:HC:79:ARG:NH2	2.27	0.67
2:HD:212:PHE:CZ	1:HE:326:LYS:CD	2.34	0.67
1:IC:76:ASP:OD2	1:IC:79:ARG:NH2	2.27	0.67
1:IE:76:ASP:OD2	1:IE:79:ARG:NH2	2.27	0.67
1:IE:393:HIS:CB	5:3A:308:PHE:HE2	2.06	0.67
1:JA:282:TYR:CD2	10:8Y:15:UNK:O	2.47	0.67
1:JE:90:GLU:HG2	1:KE:280:LYS:HD2	1.76	0.67
2:JF:87:PRO:HG2	2:KF:278:SER:HA	1.76	0.67
1:KA:222:PRO:CD	2:KB:324:LYS:HD3	2.24	0.67
1:LC:407:TRP:HE3	2:LD:255:VAL:HG13	1.55	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LD:226:ASN:HD21	13:LD:501:GDP:HN1	1.42	0.67
2:LF:221:THR:HG21	6:4D:220:GLY:N	2.10	0.67
1:MC:76:ASP:OD2	1:MC:79:ARG:NH2	2.27	0.67
1:ME:76:ASP:OD2	1:ME:79:ARG:NH2	2.27	0.67
6:4B:179:ARG:HH11	6:4B:179:ARG:HG2	1.59	0.67
7:5A:1547:SER:O	7:5A:1569:GLU:CD	2.36	0.67
7:5B:1548:VAL:HG11	7:5B:1566:GLU:C	2.18	0.67
7:5B:1565:GLU:HB3	7:5B:1568:LYS:HD2	1.75	0.67
7:5C:1332:GLN:CA	7:5C:1332:GLN:HE21	2.07	0.67
7:5C:1547:SER:O	7:5C:1569:GLU:CD	2.36	0.67
1:CA:76:ASP:OD2	1:CA:79:ARG:NH2	2.27	0.67
1:CC:11:GLN:OE1	2:CD:245:GLN:O	2.12	0.67
2:CF:86:ARG:N	2:DF:281:TYR:HE1	1.91	0.67
1:DC:76:ASP:OD2	1:DC:79:ARG:NH2	2.27	0.67
1:EA:105:ARG:NH1	2:EB:251:ARG:HD3	2.10	0.67
2:FD:220:PRO:O	1:FE:324:VAL:HG13	1.93	0.67
1:GA:404:PHE:HE2	2:GB:345:ILE:CD1	2.07	0.67
2:GF:416:ASN:ND2	7:5B:1327:LYS:HE3	2.08	0.67
1:HE:76:ASP:OD2	1:HE:79:ARG:NH2	2.27	0.67
1:IA:402:ARG:NH2	7:5C:1417:GLN:CB	2.56	0.67
1:IC:224:TYR:HE2	2:ID:246:LEU:HD11	1.57	0.67
1:JC:76:ASP:OD2	1:JC:79:ARG:NH2	2.27	0.67
2:LD:390:ARG:CD	1:LE:439:THR:HG21	2.24	0.67
2:MB:226:ASN:HD21	13:MB:502:GDP:HN1	1.42	0.67
1:ME:279:GLU:O	6:4B:107:MET:HG2	1.38	0.67
6:4C:164:ARG:HB3	6:4C:164:ARG:HH11	1.57	0.67
6:4D:221:MET:SD	6:4D:222:PRO:HD2	2.33	0.67
7:5A:1332:GLN:HE21	7:5A:1332:GLN:CA	2.07	0.67
7:5B:1392:LEU:C	7:5B:1392:LEU:HD13	2.19	0.67
7:5C:1491:LEU:HD11	7:5C:1495:PHE:HE1	1.57	0.67
2:AB:391:ARG:HG3	1:AC:346:TRP:CD1	2.30	0.67
1:AE:76:ASP:OD2	1:AE:79:ARG:NH2	2.27	0.67
1:AE:101:ASN:HD21	2:AF:252:LYS:HD2	0.84	0.67
1:BE:404:PHE:HE2	2:BF:345:ILE:CD1	2.07	0.67
2:BF:226:ASN:HD21	13:BF:501:GDP:HN1	1.42	0.67
1:GE:101:ASN:HD21	2:GF:252:LYS:HD2	0.84	0.67
1:IA:76:ASP:OD2	1:IA:79:ARG:NH2	2.27	0.67
2:JB:226:ASN:HD21	13:JB:501:GDP:HN1	1.42	0.67
2:JB:391:ARG:HG3	1:JC:346:TRP:CD1	2.30	0.67
2:KB:397:TRP:CD2	1:KC:256:GLN:O	2.30	0.67
2:LF:55:THR:HG23	2:MF:283:ALA:C	2.16	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MD:226:ASN:HD21	13:MD:502:GDP:HN1	1.42	0.67
6:4D:285:ARG:HH11	6:4D:285:ARG:C	2.03	0.67
7:5B:1332:GLN:CA	7:5B:1332:GLN:HE21	2.07	0.67
7:5B:1547:SER:O	7:5B:1569:GLU:CD	2.36	0.67
1:DA:76:ASP:OD2	1:DA:79:ARG:NH2	2.27	0.67
1:DA:222:PRO:HD2	2:DB:324:LYS:HD3	1.74	0.67
2:EB:179:VAL:CG2	1:EC:258:ASN:HA	2.25	0.67
1:EC:404:PHE:CE2	2:ED:345:ILE:CD1	2.76	0.67
2:FB:390:ARG:CD	1:FC:439:THR:HG21	2.24	0.67
1:GE:224:TYR:HE2	2:GF:246:LEU:HD11	1.59	0.67
1:HE:370:LYS:HG3	10:8U:18:UNK:N	2.04	0.67
1:JE:76:ASP:OD2	1:JE:79:ARG:NH2	2.27	0.67
2:KB:276:ARG:NH2	6:4A:266:ASN:N	2.41	0.67
1:KC:224:TYR:HE2	2:KD:246:LEU:HD11	1.57	0.67
2:LB:226:ASN:HD21	13:LB:501:GDP:HN1	1.42	0.67
1:MC:372:MET:CE	6:4A:96:VAL:C	2.51	0.67
6:4A:110:LYS:HE2	6:4A:113:ILE:HD11	1.74	0.67
6:4A:179:ARG:HH11	6:4A:179:ARG:HG2	1.59	0.67
6:4B:110:LYS:HE2	6:4B:113:ILE:HD11	1.75	0.67
6:4B:285:ARG:HH11	6:4B:285:ARG:C	2.03	0.67
7:5A:1392:LEU:C	7:5A:1392:LEU:HD13	2.19	0.67
7:5C:1426:GLU:OE2	7:5C:1426:GLU:HA	1.95	0.67
7:5C:1548:VAL:HG11	7:5C:1566:GLU:C	2.18	0.67
1:DA:71:GLU:OE1	2:DB:247:ASN:ND2	2.28	0.67
1:DC:414:GLU:OE2	7:5A:789:LYS:NZ	2.27	0.67
2:DD:179:VAL:CG2	1:DE:258:ASN:O	2.33	0.67
1:DE:222:PRO:HD2	2:DF:324:LYS:HD3	1.75	0.67
2:EB:177:ASP:OD1	1:EC:353:VAL:HG12	1.81	0.67
2:HB:391:ARG:HG3	1:HC:346:TRP:CD1	2.30	0.67
2:JD:226:ASN:HD21	13:JD:501:GDP:HN1	1.42	0.67
2:KF:221:THR:CG2	6:4D:261:SER:CA	2.49	0.67
2:LD:178:THR:HG23	1:LE:258:ASN:ND2	2.07	0.67
1:MA:282:TYR:CD1	6:4C:98:PRO:HB3	2.29	0.67
6:4A:285:ARG:HH11	6:4A:285:ARG:C	2.03	0.67
6:4B:221:MET:SD	6:4B:222:PRO:HD2	2.33	0.67
6:4C:221:MET:SD	6:4C:222:PRO:HD2	2.33	0.67
6:4C:285:ARG:HH11	6:4C:285:ARG:C	2.03	0.67
6:4D:110:LYS:HE2	6:4D:113:ILE:HD11	1.75	0.67
7:5C:1573:ARG:C	7:5C:1577:LYS:HB2	2.16	0.67
2:BD:226:ASN:HD21	13:BD:501:GDP:HN1	1.42	0.67
2:DD:397:TRP:HE3	1:DE:257:THR:CG2	2.01	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HB:148:GLY:O	2:HB:152:ILE:HG12	1.95	0.67
2:IF:86:ARG:CB	2:JF:281:TYR:CE1	2.77	0.67
1:JE:90:GLU:C	1:KE:280:LYS:NZ	2.27	0.67
2:KB:215:LEU:HD13	6:4A:267:ILE:HG22	0.68	0.67
1:LA:60:LYS:HD3	1:MA:283:HIS:HA	1.76	0.67
2:LB:55:THR:HG21	2:MB:284:LEU:N	2.09	0.67
2:LB:148:GLY:O	2:LB:152:ILE:HG12	1.95	0.67
1:LC:84:ARG:NH1	6:4A:108:LYS:CE	2.45	0.67
2:LD:148:GLY:O	2:LD:152:ILE:HG12	1.95	0.67
2:LF:148:GLY:O	2:LF:152:ILE:HG12	1.95	0.67
7:5A:1426:GLU:OE2	7:5A:1426:GLU:HA	1.95	0.67
7:5A:1548:VAL:HG11	7:5A:1566:GLU:C	2.18	0.67
7:5C:1152:GLU:CD	8:6C:66:ARG:NH2	2.53	0.67
7:5C:1392:LEU:C	7:5C:1392:LEU:HD13	2.19	0.67
7:5C:1482:SER:O	7:5C:1486:THR:N	2.21	0.67
9:7C:7:LEU:HD23	9:7D:30:ARG:HE	1.58	0.67
1:AC:404:PHE:HE2	2:AD:345:ILE:CD1	2.09	0.67
2:DB:220:PRO:HD2	1:DC:326:LYS:CG	2.23	0.67
1:EC:398:MET:SD	2:ED:345:ILE:CG1	2.79	0.67
2:ED:86:ARG:CA	2:FD:281:TYR:CE1	2.78	0.67
1:EE:426:ALA:CB	7:5B:833:PHE:CD1	2.51	0.67
1:HC:404:PHE:HE2	2:HD:345:ILE:CD1	2.08	0.67
2:HD:148:GLY:O	2:HD:152:ILE:HG12	1.95	0.67
2:HF:148:GLY:O	2:HF:152:ILE:HG12	1.95	0.67
1:IE:401:LYS:CE	2:IF:344:TRP:CZ3	2.67	0.67
1:IE:402:ARG:HE	7:5B:1417:GLN:HG3	1.58	0.67
2:JD:177:ASP:O	1:JE:352:LYS:CD	2.34	0.67
2:KB:148:GLY:O	2:KB:152:ILE:HG12	1.95	0.67
2:KB:391:ARG:HG3	1:KC:346:TRP:CD1	2.30	0.67
2:KD:148:GLY:O	2:KD:152:ILE:HG12	1.95	0.67
2:KF:148:GLY:O	2:KF:152:ILE:HG12	1.95	0.67
1:LC:60:LYS:NZ	1:MC:283:HIS:CG	2.53	0.67
1:MC:279:GLU:O	6:4A:107:MET:HG2	1.44	0.67
2:MD:111:GLU:HA	3:1B:62:SER:HA	1.76	0.67
6:4A:221:MET:SD	6:4A:222:PRO:HD2	2.33	0.67
6:4C:179:ARG:HH11	6:4C:179:ARG:HG2	1.59	0.67
7:5A:1491:LEU:HD11	7:5A:1495:PHE:HE1	1.57	0.67
8:6A:20:LYS:NZ	8:6A:101:GLU:OE1	2.26	0.67
9:7A:7:LEU:HD23	9:7B:30:ARG:HE	1.58	0.67
9:7A:12:GLU:HA	9:7A:16:THR:OG1	1.94	0.67
2:BB:86:ARG:CA	2:CB:281:TYR:CE1	2.67	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DD:176:SER:OG	1:DE:349:THR:OG1	2.11	0.66
2:DD:220:PRO:CD	1:DE:326:LYS:HG2	2.24	0.66
2:EB:148:GLY:O	2:EB:152:ILE:HG12	1.95	0.66
2:ED:148:GLY:O	2:ED:152:ILE:HG12	1.95	0.66
2:ED:220:PRO:HD2	1:EE:326:LYS:CG	2.25	0.66
2:FD:331:LEU:HD21	7:5A:915:PHE:CZ	2.30	0.66
1:HE:224:TYR:HE2	2:HF:246:LEU:HD11	1.59	0.66
2:ID:148:GLY:O	2:ID:152:ILE:HG12	1.95	0.66
2:IF:148:GLY:O	2:IF:152:ILE:HG12	1.95	0.66
2:JD:86:ARG:HH12	2:KD:280:GLN:HB3	1.56	0.66
2:JF:226:ASN:HD21	13:JF:501:GDP:HN1	1.42	0.66
1:KA:85:GLN:HA	1:LA:283:HIS:N	2.09	0.66
1:KC:359:PRO:HG3	6:4A:299:TYR:CD2	2.31	0.66
1:MA:404:PHE:CE2	2:MB:345:ILE:CD1	2.78	0.66
2:MD:111:GLU:CG	3:1B:62:SER:HA	2.20	0.66
2:MF:226:ASN:HD21	13:MF:502:GDP:HN1	1.42	0.66
6:4C:110:LYS:HE2	6:4C:113:ILE:HD11	1.74	0.66
9:7E:12:GLU:HA	9:7E:16:THR:OG1	1.94	0.66
1:BA:401:LYS:CE	2:BB:344:TRP:CZ3	2.68	0.66
2:BB:226:ASN:HD21	13:BB:501:GDP:HN1	1.42	0.66
2:DB:148:GLY:O	2:DB:152:ILE:HG12	1.95	0.66
2:DD:148:GLY:O	2:DD:152:ILE:HG12	1.95	0.66
1:DE:11:GLN:NE2	2:DF:247:ASN:OD1	2.28	0.66
2:EF:148:GLY:O	2:EF:152:ILE:HG12	1.95	0.66
2:FD:332:ASN:CG	7:5A:909:ASN:HD21	2.04	0.66
2:GB:148:GLY:O	2:GB:152:ILE:HG12	1.95	0.66
1:GC:60:LYS:HD3	1:HC:283:HIS:HA	1.76	0.66
1:GE:60:LYS:HD3	1:HE:283:HIS:HA	1.75	0.66
2:IB:148:GLY:O	2:IB:152:ILE:HG12	1.95	0.66
1:KE:88:HIS:HA	1:LE:284:GLU:CA	2.24	0.66
2:KF:226:ASN:HD21	13:KF:501:GDP:HN1	1.42	0.66
2:MF:148:GLY:O	2:MF:152:ILE:HG12	1.95	0.66
7:5C:1399:LYS:O	7:5C:1399:LYS:HG2	1.94	0.66
7:5C:1524:PHE:CE1	7:5C:1571:MET:HE2	2.29	0.66
7:5C:1533:GLU:CD	7:5C:1604:ALA:HB1	2.20	0.66
9:7A:10:TYR:HE2	9:7B:26:LEU:HG	1.60	0.66
2:BB:208:TYR:OH	1:BC:325:PRO:HB2	1.95	0.66
2:CB:148:GLY:O	2:CB:152:ILE:HG12	1.95	0.66
2:CB:208:TYR:OH	1:CC:325:PRO:HB2	1.94	0.66
1:CE:60:LYS:NZ	1:DE:283:HIS:CE1	2.63	0.66
2:CF:86:ARG:CB	2:DF:281:TYR:HE1	1.90	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DF:148:GLY:O	2:DF:152:ILE:HG12	1.95	0.66
1:FA:423:GLU:CD	7:5C:1256:ARG:HH22	1.99	0.66
1:GE:60:LYS:NZ	1:HE:283:HIS:ND1	2.40	0.66
2:HD:397:TRP:CD2	1:HE:256:GLN:O	2.31	0.66
1:IA:404:PHE:HE2	2:IB:345:ILE:CD1	2.07	0.66
2:JB:177:ASP:O	1:JC:352:LYS:CD	2.35	0.66
2:JF:148:GLY:O	2:JF:152:ILE:HG12	1.95	0.66
2:KF:83:GLN:HA	2:LF:281:TYR:CE1	2.30	0.66
1:LA:60:LYS:HD2	1:MA:283:HIS:CD2	2.28	0.66
2:LB:390:ARG:HD2	1:LC:439:THR:HG21	1.75	0.66
1:LE:407:TRP:HE3	2:LF:255:VAL:HG13	1.57	0.66
2:MD:148:GLY:O	2:MD:152:ILE:HG12	1.95	0.66
6:4A:242:ARG:O	6:4A:247:LYS:HE3	1.94	0.66
7:5A:1524:PHE:CE1	7:5A:1571:MET:HE2	2.29	0.66
7:5A:1533:GLU:CD	7:5A:1604:ALA:HB1	2.20	0.66
7:5B:1399:LYS:O	7:5B:1399:LYS:HG2	1.93	0.66
7:5B:1426:GLU:OE2	7:5B:1426:GLU:HA	1.95	0.66
2:AF:40:SER:CB	6:4A:152:PHE:CE2	2.74	0.66
2:CD:148:GLY:O	2:CD:152:ILE:HG12	1.95	0.66
2:CF:148:GLY:O	2:CF:152:ILE:HG12	1.95	0.66
2:EF:157:GLU:OE1	7:5B:935:LYS:CE	2.43	0.66
2:FB:148:GLY:O	2:FB:152:ILE:HG12	1.95	0.66
1:FC:224:TYR:HE2	2:FD:246:LEU:HD11	1.58	0.66
2:FF:148:GLY:O	2:FF:152:ILE:HG12	1.95	0.66
2:GB:391:ARG:HG3	1:GC:346:TRP:CD1	2.30	0.66
2:GD:148:GLY:O	2:GD:152:ILE:HG12	1.95	0.66
2:GF:148:GLY:O	2:GF:152:ILE:HG12	1.95	0.66
1:IA:402:ARG:CZ	7:5C:1417:GLN:CB	2.73	0.66
2:IF:226:ASN:HD21	13:IF:501:GDP:HN1	1.42	0.66
2:JD:148:GLY:O	2:JD:152:ILE:HG12	1.95	0.66
1:LE:222:PRO:HG2	2:LF:324:LYS:CB	2.25	0.66
2:MB:148:GLY:O	2:MB:152:ILE:HG12	1.95	0.66
2:MB:221:THR:CG2	6:4A:189:ARG:HH12	2.08	0.66
6:4B:242:ARG:O	6:4B:247:LYS:HE3	1.94	0.66
7:5B:1353:GLU:HB3	7:5B:1357:LYS:HE3	1.77	0.66
7:5B:1524:PHE:CE1	7:5B:1571:MET:HE2	2.29	0.66
9:7E:14:SER:O	9:7F:35:ILE:HD11	1.95	0.66
2:CD:220:PRO:HD2	1:CE:326:LYS:CE	2.26	0.66
2:CF:226:ASN:HD21	13:CF:501:GDP:HN1	1.42	0.66
1:DE:101:ASN:HD21	2:DF:252:LYS:HD2	0.85	0.66
1:EC:100:ALA:HB1	2:ED:252:LYS:HA	1.77	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EC:396:ASP:CG	7:5A:821:LEU:HD11	2.20	0.66
2:ED:100:ASN:HB2	1:EE:257:THR:HG21	1.78	0.66
1:EE:393:HIS:ND1	7:5B:814:LYS:CG	2.59	0.66
2:FD:148:GLY:O	2:FD:152:ILE:HG12	1.95	0.66
1:HC:159:VAL:HG22	5:3C:209:ARG:HH21	1.58	0.66
1:HE:415:GLU:HG3	5:3A:235:LEU:HB2	1.74	0.66
2:JB:148:GLY:O	2:JB:152:ILE:HG12	1.95	0.66
2:KD:226:ASN:HD21	13:KD:501:GDP:HN1	1.42	0.66
2:KF:125:GLU:O	4:2B:38:VAL:HA	1.94	0.66
1:LA:222:PRO:CG	2:LB:324:LYS:HD2	2.24	0.66
2:LB:223:GLY:C	6:4A:219:ASN:CG	2.59	0.66
2:LB:391:ARG:O	1:LC:262:TYR:OH	2.14	0.66
1:LC:224:TYR:CE2	2:LD:246:LEU:HD11	2.29	0.66
1:ME:100:ALA:HB1	2:MF:252:LYS:HA	1.77	0.66
2:MF:221:THR:CG2	6:4D:189:ARG:NH2	2.08	0.66
4:2A:112:GLU:OE2	4:2A:115:LEU:CD1	2.44	0.66
4:2B:112:GLU:OE2	4:2B:115:LEU:CD1	2.44	0.66
4:2C:112:GLU:OE2	4:2C:115:LEU:CD1	2.44	0.66
6:4C:242:ARG:O	6:4C:247:LYS:HE3	1.94	0.66
6:4D:242:ARG:O	6:4D:247:LYS:HE3	1.94	0.66
7:5A:1353:GLU:HB3	7:5A:1357:LYS:HE3	1.77	0.66
7:5A:1482:SER:O	7:5A:1486:THR:N	2.21	0.66
7:5B:1491:LEU:HD11	7:5B:1495:PHE:HE1	1.57	0.66
2:AB:220:PRO:O	1:AC:324:VAL:HG13	1.95	0.66
2:AD:397:TRP:CD2	1:AE:256:GLN:O	2.31	0.66
1:BA:101:ASN:HD21	2:BB:252:LYS:HD2	0.84	0.66
2:BB:148:GLY:O	2:BB:152:ILE:HG12	1.95	0.66
2:BD:148:GLY:O	2:BD:152:ILE:HG12	1.95	0.66
1:CE:98:ASP:OD1	1:CE:99:ALA:N	2.29	0.66
1:CE:224:TYR:HE2	2:CF:246:LEU:HD11	1.59	0.66
2:DF:226:ASN:HD21	13:DF:501:GDP:HN1	1.42	0.66
1:EA:11:GLN:NE2	2:EB:247:ASN:OD1	2.29	0.66
1:EA:222:PRO:HD2	2:EB:324:LYS:HD3	1.77	0.66
1:FA:85:GLN:O	1:GA:283:HIS:CE1	2.49	0.66
2:ID:226:ASN:HD21	13:ID:501:GDP:HN1	1.42	0.66
1:JE:401:LYS:CE	2:JF:344:TRP:CZ3	2.67	0.66
1:KC:79:ARG:HG2	1:LC:280:LYS:NZ	2.00	0.66
1:KC:404:PHE:HE2	2:KD:345:ILE:CD1	2.09	0.66
1:MC:279:GLU:O	6:4A:107:MET:CB	2.43	0.66
6:4C:266:ASN:HB2	6:4C:273:ARG:NH1	2.11	0.66
7:5A:1399:LYS:HG2	7:5A:1399:LYS:O	1.94	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1533:GLU:CD	7:5B:1604:ALA:HB1	2.20	0.66
7:5C:1353:GLU:HB3	7:5C:1357:LYS:HE3	1.77	0.66
8:6C:131:ASP:H	8:6C:136:LEU:HD12	1.60	0.66
1:AC:98:ASP:OD1	1:AC:99:ALA:N	2.29	0.66
2:BF:86:ARG:CA	2:CF:281:TYR:CE1	2.61	0.66
1:CA:98:ASP:OD1	1:CA:99:ALA:N	2.29	0.66
1:CA:101:ASN:HD21	2:CB:252:LYS:HD2	0.83	0.66
1:CC:98:ASP:OD1	1:CC:99:ALA:N	2.29	0.66
1:FC:98:ASP:OD1	1:FC:99:ALA:N	2.29	0.66
1:FC:222:PRO:HD2	2:FD:324:LYS:HD3	1.77	0.66
1:FE:98:ASP:OD1	1:FE:99:ALA:N	2.29	0.66
1:GA:56:THR:O	1:HA:285:GLN:HB3	1.96	0.66
1:GA:98:ASP:OD1	1:GA:99:ALA:N	2.29	0.66
1:GE:60:LYS:CD	1:HE:283:HIS:HB3	2.21	0.66
1:HC:278:ALA:HB2	10:8T:21:UNK:CB	2.26	0.66
1:JA:88:HIS:O	1:KA:280:LYS:NZ	2.25	0.66
1:JC:98:ASP:OD1	1:JC:99:ALA:N	2.29	0.66
1:JC:404:PHE:HE2	2:JD:345:ILE:CD1	2.08	0.66
1:LA:47:ASP:OD1	6:4C:203:LYS:NZ	2.27	0.66
1:LC:60:LYS:CD	6:4A:101:ARG:NH2	2.42	0.66
2:LD:397:TRP:CE3	1:LE:257:THR:HG23	2.27	0.66
1:MA:372:MET:HE2	6:4C:96:VAL:H	1.56	0.66
6:4A:266:ASN:HB2	6:4A:273:ARG:NH1	2.11	0.66
1:AA:98:ASP:OD1	1:AA:99:ALA:N	2.29	0.66
1:AE:98:ASP:OD1	1:AE:99:ALA:N	2.29	0.66
1:BA:98:ASP:OD1	1:BA:99:ALA:N	2.29	0.66
1:BC:404:PHE:HE2	2:BD:345:ILE:CD1	2.08	0.66
2:CD:220:PRO:HD2	1:CE:326:LYS:CG	2.25	0.66
2:CD:226:ASN:HD21	13:CD:501:GDP:HN1	1.42	0.66
1:CE:101:ASN:HD21	2:CF:252:LYS:HD2	0.83	0.66
1:EC:430:LYS:HZ1	7:5A:834:ASN:HD21	0.78	0.66
1:FA:98:ASP:OD1	1:FA:99:ALA:N	2.29	0.66
2:FB:331:LEU:HD21	7:5C:915:PHE:CE1	2.30	0.66
1:FE:71:GLU:CD	2:FF:247:ASN:ND2	2.54	0.66
2:GB:58:ARG:NH2	2:HB:281:TYR:CZ	2.64	0.66
1:GC:98:ASP:OD1	1:GC:99:ALA:N	2.29	0.66
1:GE:98:ASP:OD1	1:GE:99:ALA:N	2.29	0.66
1:IA:328:VAL:HG11	1:IA:353:VAL:HG21	1.78	0.66
1:IC:404:PHE:HE2	2:ID:345:ILE:CD1	2.09	0.66
2:JD:177:ASP:OD1	1:JE:353:VAL:HG12	1.84	0.66
1:JE:98:ASP:OD1	1:JE:99:ALA:N	2.29	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2B:12:LEU:HD23	4:2B:20:LYS:CB	2.21	0.66
7:5C:1423:LYS:HA	7:5C:1423:LYS:HE2	1.76	0.66
7:5C:1572:LEU:HD11	7:5C:1576:ILE:HD11	1.78	0.66
9:7A:18:VAL:HG11	9:7A:42:LEU:HD22	1.77	0.66
1:BC:98:ASP:OD1	1:BC:99:ALA:N	2.29	0.66
2:BF:148:GLY:O	2:BF:152:ILE:HG12	1.95	0.66
1:DA:224:TYR:HE2	2:DB:246:LEU:HD11	1.61	0.66
2:DD:226:ASN:HD21	13:DD:501:GDP:HN1	1.42	0.66
2:EB:397:TRP:CD2	1:EC:256:GLN:O	2.31	0.66
1:FA:328:VAL:HG11	1:FA:353:VAL:HG21	1.78	0.66
1:FE:328:VAL:HG11	1:FE:353:VAL:HG21	1.78	0.66
1:HA:278:ALA:HB2	10:8S:21:UNK:CB	2.26	0.66
1:HA:328:VAL:HG11	1:HA:353:VAL:HG21	1.78	0.66
1:JA:98:ASP:OD1	1:JA:99:ALA:N	2.29	0.66
1:JA:328:VAL:HG11	1:JA:353:VAL:HG21	1.78	0.66
1:KE:90:GLU:N	1:LE:284:GLU:OE1	2.28	0.66
1:KE:328:VAL:HG11	1:KE:353:VAL:HG21	1.78	0.66
1:LA:98:ASP:OD1	1:LA:99:ALA:N	2.29	0.66
2:MB:178:THR:HG23	1:MC:258:ASN:ND2	2.07	0.66
1:MC:328:VAL:HG11	1:MC:353:VAL:HG21	1.78	0.66
2:MF:221:THR:CG2	6:4D:189:ARG:HH12	2.08	0.66
6:4B:266:ASN:HB2	6:4B:273:ARG:NH1	2.11	0.66
7:5A:1105:TYR:HE2	7:5A:1258:ARG:HH22	1.44	0.66
7:5A:1267:CYS:SG	9:7A:8:ARG:CD	2.84	0.66
7:5A:1423:LYS:HA	7:5A:1423:LYS:HE2	1.77	0.66
7:5B:1423:LYS:HA	7:5B:1423:LYS:HE2	1.76	0.66
7:5B:1482:SER:O	7:5B:1486:THR:N	2.21	0.66
9:7C:11:TYR:HE1	9:7D:26:LEU:CD2	1.89	0.66
2:BD:87:PRO:HD2	2:CD:281:TYR:CE2	2.30	0.66
1:CA:222:PRO:HD2	2:CB:324:LYS:HD3	1.76	0.66
1:DC:11:GLN:NE2	2:DD:247:ASN:OD1	2.29	0.66
1:DE:98:ASP:OD1	1:DE:99:ALA:N	2.29	0.66
1:EA:328:VAL:HG11	1:EA:353:VAL:HG21	1.78	0.66
1:EE:328:VAL:HG11	1:EE:353:VAL:HG21	1.78	0.66
1:FC:89:PRO:N	1:GC:280:LYS:HZ1	1.86	0.66
1:FC:328:VAL:HG11	1:FC:353:VAL:HG21	1.78	0.66
1:FE:404:PHE:HE2	2:FF:345:ILE:HD12	1.61	0.66
1:FE:422:ARG:NE	7:5B:1170:THR:CB	2.57	0.66
1:HA:98:ASP:OD1	1:HA:99:ALA:N	2.29	0.66
1:HC:98:ASP:OD1	1:HC:99:ALA:N	2.29	0.66
1:HC:328:VAL:HG11	1:HC:353:VAL:HG21	1.78	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IE:328:VAL:HG11	1:IE:353:VAL:HG21	1.78	0.66
1:KA:98:ASP:OD1	1:KA:99:ALA:N	2.29	0.66
1:KA:328:VAL:HG11	1:KA:353:VAL:HG21	1.78	0.66
2:KB:226:ASN:HD21	13:KB:501:GDP:HN1	1.42	0.66
1:KC:98:ASP:OD1	1:KC:99:ALA:N	2.29	0.66
1:KE:98:ASP:OD1	1:KE:99:ALA:N	2.29	0.66
1:LA:328:VAL:HG11	1:LA:353:VAL:HG21	1.78	0.66
1:MA:100:ALA:HB1	2:MB:252:LYS:HA	1.77	0.66
1:MA:328:VAL:HG11	1:MA:353:VAL:HG21	1.78	0.66
4:2A:12:LEU:HD23	4:2A:20:LYS:CB	2.21	0.66
7:5B:1105:TYR:HE2	7:5B:1258:ARG:HH22	1.44	0.66
7:5B:1572:LEU:HD11	7:5B:1576:ILE:HD11	1.78	0.66
7:5C:1105:TYR:HE2	7:5C:1258:ARG:HH22	1.44	0.66
9:7F:12:GLU:O	9:7F:16:THR:OG1	2.14	0.66
1:AA:60:LYS:HD3	1:BA:283:HIS:CD2	2.30	0.65
1:BE:328:VAL:HG11	1:BE:353:VAL:HG21	1.78	0.65
2:CB:226:ASN:HD21	13:CB:501:GDP:HN1	1.42	0.65
1:DC:98:ASP:OD1	1:DC:99:ALA:N	2.29	0.65
1:DE:400:ALA:CA	7:5B:775:PRO:HB3	2.26	0.65
1:EC:328:VAL:HG11	1:EC:353:VAL:HG21	1.78	0.65
1:FA:56:THR:CA	1:GA:285:GLN:CB	2.63	0.65
1:FA:224:TYR:HE2	2:FB:246:LEU:HD11	1.61	0.65
2:GD:177:ASP:OD1	1:GE:353:VAL:HG12	1.84	0.65
1:GE:56:THR:OG1	1:HE:285:GLN:N	2.29	0.65
1:HA:101:ASN:HD21	2:HB:252:LYS:HD2	0.82	0.65
2:IB:226:ASN:HD21	13:IB:501:GDP:HN1	1.42	0.65
1:IC:328:VAL:HG11	1:IC:353:VAL:HG21	1.78	0.65
1:JA:101:ASN:HD21	2:JB:252:LYS:HD2	0.82	0.65
2:JB:208:TYR:OH	1:JC:325:PRO:HB2	1.96	0.65
1:JC:328:VAL:HG11	1:JC:353:VAL:HG21	1.78	0.65
1:KA:87:PHE:C	1:LA:283:HIS:O	2.40	0.65
1:KC:328:VAL:HG11	1:KC:353:VAL:HG21	1.78	0.65
1:LA:404:PHE:CE1	2:LB:259:PRO:HA	2.32	0.65
2:LB:212:PHE:CE2	1:LC:326:LYS:HD3	2.17	0.65
1:LC:98:ASP:OD1	1:LC:99:ALA:N	2.29	0.65
1:ME:328:VAL:HG11	1:ME:353:VAL:HG21	1.78	0.65
1:ME:372:MET:HE2	6:4B:96:VAL:H	1.56	0.65
4:2C:171:VAL:HB	4:2C:176:ARG:HH21	1.61	0.65
6:4D:266:ASN:HB2	6:4D:273:ARG:NH1	2.11	0.65
7:5A:1572:LEU:HD11	7:5A:1576:ILE:HD11	1.78	0.65
7:5B:1425:LYS:NZ	7:5B:1429:GLN:HB2	2.11	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:7C:35:ILE:HG22	9:7D:43:LEU:HA	1.78	0.65
2:AD:356:ILE:CD1	6:4C:152:PHE:HE1	2.07	0.65
1:AE:328:VAL:HG11	1:AE:353:VAL:HG21	1.78	0.65
1:BA:224:TYR:HE2	2:BB:246:LEU:HD11	1.61	0.65
1:BA:328:VAL:HG11	1:BA:353:VAL:HG21	1.78	0.65
1:BC:328:VAL:HG11	1:BC:353:VAL:HG21	1.78	0.65
1:BE:98:ASP:OD1	1:BE:99:ALA:N	2.29	0.65
1:DA:328:VAL:HG11	1:DA:353:VAL:HG21	1.78	0.65
1:DC:328:VAL:HG11	1:DC:353:VAL:HG21	1.78	0.65
2:ED:125:GLU:CD	7:5A:903:PHE:HE2	2.03	0.65
2:FF:226:ASN:HD21	13:FF:501:GDP:HN1	1.42	0.65
1:JE:328:VAL:HG11	1:JE:353:VAL:HG21	1.78	0.65
1:KE:401:LYS:CE	2:KF:344:TRP:CZ3	2.67	0.65
2:KF:159:TYR:CE2	4:2B:35:VAL:C	2.74	0.65
1:LC:328:VAL:HG11	1:LC:353:VAL:HG21	1.78	0.65
4:2A:171:VAL:HB	4:2A:176:ARG:HH21	1.61	0.65
7:5A:1425:LYS:NZ	7:5A:1429:GLN:HB2	2.11	0.65
7:5B:1416:LYS:HD3	7:5B:1416:LYS:O	1.96	0.65
7:5C:1247:LYS:HE2	7:5C:1248:LEU:HG	1.77	0.65
7:5C:1425:LYS:NZ	7:5C:1429:GLN:HB2	2.11	0.65
9:7C:10:TYR:HE2	9:7D:26:LEU:HG	1.60	0.65
1:AA:328:VAL:HG11	1:AA:353:VAL:HG21	1.78	0.65
1:AC:328:VAL:HG11	1:AC:353:VAL:HG21	1.78	0.65
1:BE:101:ASN:HD21	2:BF:252:LYS:HD2	0.83	0.65
2:DB:226:ASN:HD21	13:DB:501:GDP:HN1	1.41	0.65
2:EB:125:GLU:CB	7:5C:903:PHE:CD2	2.79	0.65
1:EE:98:ASP:OD1	1:EE:99:ALA:N	2.29	0.65
2:FD:54:ALA:CB	2:GD:281:TYR:O	2.44	0.65
2:FD:55:THR:HG23	2:GD:283:ALA:CB	2.26	0.65
2:FD:226:ASN:HD21	13:FD:502:GDP:HN1	1.42	0.65
1:GC:404:PHE:HE2	2:GD:345:ILE:CD1	2.09	0.65
1:GE:328:VAL:HG11	1:GE:353:VAL:HG21	1.78	0.65
1:HE:98:ASP:OD1	1:HE:99:ALA:N	2.29	0.65
1:IA:101:ASN:HD21	2:IB:252:LYS:HD2	0.82	0.65
1:IE:98:ASP:OD1	1:IE:99:ALA:N	2.29	0.65
1:JE:89:PRO:HG2	1:KE:280:LYS:HG2	1.68	0.65
2:KD:276:ARG:HH22	6:4B:266:ASN:H	1.43	0.65
1:KE:224:TYR:HE2	2:KF:246:LEU:HD11	1.59	0.65
1:KE:359:PRO:HG3	6:4B:299:TYR:CE2	2.31	0.65
2:LB:55:THR:CG2	2:MB:284:LEU:H	2.09	0.65
1:LC:60:LYS:HD3	1:MC:283:HIS:CD2	2.30	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LE:98:ASP:OD1	1:LE:99:ALA:N	2.29	0.65
1:LE:328:VAL:HG11	1:LE:353:VAL:HG21	1.78	0.65
1:ME:404:PHE:CE2	2:MF:345:ILE:HD11	2.31	0.65
6:4D:151:ARG:HH11	6:4D:151:ARG:CG	2.08	0.65
7:5B:912:VAL:HG11	7:5B:918:ILE:HG13	1.78	0.65
9:7C:11:TYR:CE1	9:7D:26:LEU:CG	2.71	0.65
2:AD:391:ARG:HG3	1:AE:346:TRP:CD1	2.31	0.65
1:AE:224:TYR:HE2	2:AF:246:LEU:HD11	1.59	0.65
2:AF:148:GLY:O	2:AF:152:ILE:HG12	1.95	0.65
1:CA:404:PHE:HE2	2:CB:345:ILE:CD1	2.09	0.65
2:CB:179:VAL:CG2	1:CC:258:ASN:CA	2.75	0.65
1:DA:98:ASP:OD1	1:DA:99:ALA:N	2.29	0.65
1:DE:328:VAL:HG11	1:DE:353:VAL:HG21	1.78	0.65
1:EA:402:ARG:CZ	7:5C:824:ARG:NH2	2.58	0.65
2:EF:55:THR:HG23	2:FF:283:ALA:CB	2.25	0.65
1:GA:101:ASN:HD21	2:GB:252:LYS:HD2	0.82	0.65
1:GA:328:VAL:HG11	1:GA:353:VAL:HG21	1.78	0.65
1:GC:328:VAL:HG11	1:GC:353:VAL:HG21	1.78	0.65
1:HE:328:VAL:HG11	1:HE:353:VAL:HG21	1.78	0.65
1:IC:279:GLU:HA	10:8W:22:UNK:CB	2.26	0.65
1:IE:224:TYR:HE2	2:IF:246:LEU:HD11	1.59	0.65
1:MA:105:ARG:NH1	2:MB:251:ARG:HD3	2.11	0.65
2:MB:390:ARG:HD2	1:MC:439:THR:HG21	1.77	0.65
4:2C:12:LEU:HD23	4:2C:20:LYS:CB	2.22	0.65
7:5A:1416:LYS:HD3	7:5A:1416:LYS:O	1.97	0.65
7:5B:839:GLU:HA	8:6B:109:ILE:N	2.11	0.65
7:5C:773:ARG:C	7:5C:775:PRO:CD	2.67	0.65
7:5C:1416:LYS:HD3	7:5C:1416:LYS:O	1.97	0.65
7:5C:1482:SER:HA	7:5C:1485:LYS:CB	2.21	0.65
2:AD:148:GLY:O	2:AD:152:ILE:HG12	1.95	0.65
1:CA:224:TYR:HE2	2:CB:246:LEU:HD11	1.60	0.65
2:CB:176:SER:OG	1:CC:349:THR:OG1	2.12	0.65
1:CE:328:VAL:HG11	1:CE:353:VAL:HG21	1.78	0.65
2:DD:60:VAL:HG21	2:ED:281:TYR:CD1	2.31	0.65
1:EC:98:ASP:OD1	1:EC:99:ALA:N	2.29	0.65
2:FD:397:TRP:CB	1:FE:256:GLN:HE22	2.07	0.65
2:GB:226:ASN:HD21	13:GB:501:GDP:HN1	1.42	0.65
1:HC:415:GLU:HG3	5:3C:235:LEU:HB2	1.73	0.65
1:IC:98:ASP:OD1	1:IC:99:ALA:N	2.29	0.65
1:JE:224:TYR:HE2	2:JF:246:LEU:HD11	1.59	0.65
1:KA:101:ASN:HD21	2:KB:252:LYS:HD2	0.82	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:125:GLU:CD	2:LF:336:LYS:NZ	2.54	0.65
2:LB:228:LEU:HD23	6:4A:225:PRO:HG2	1.79	0.65
1:ME:98:ASP:OD1	1:ME:99:ALA:N	2.29	0.65
4:2B:171:VAL:HB	4:2B:176:ARG:HH21	1.61	0.65
6:4B:151:ARG:HH11	6:4B:151:ARG:CG	2.08	0.65
6:4D:266:ASN:HD22	6:4D:273:ARG:NH1	1.95	0.65
7:5A:912:VAL:HG11	7:5A:918:ILE:HG13	1.78	0.65
7:5A:1443:LYS:C	7:5A:1443:LYS:HD2	2.21	0.65
7:5B:1487:ASN:HB3	7:5B:1568:LYS:CD	2.21	0.65
7:5C:912:VAL:HG11	7:5C:918:ILE:HG13	1.78	0.65
7:5C:1443:LYS:C	7:5C:1443:LYS:HD2	2.21	0.65
9:7A:35:ILE:HG22	9:7B:43:LEU:HA	1.78	0.65
1:AA:101:ASN:HD21	2:AB:252:LYS:HD2	0.82	0.65
2:AB:148:GLY:O	2:AB:152:ILE:HG12	1.95	0.65
1:CA:328:VAL:HG11	1:CA:353:VAL:HG21	1.78	0.65
1:EC:430:LYS:HZ1	7:5A:834:ASN:ND2	0.60	0.65
2:EF:226:ASN:HD21	13:EF:501:GDP:HN1	1.42	0.65
1:FC:100:ALA:HB1	2:FD:252:LYS:HA	1.77	0.65
2:GD:391:ARG:HG3	1:GE:346:TRP:CD1	2.31	0.65
1:IA:401:LYS:CE	2:IB:344:TRP:CZ3	2.67	0.65
2:IF:56:GLY:HA2	10:9A:36:UNK:HA	1.79	0.65
2:LF:221:THR:CG2	6:4D:220:GLY:H	2.09	0.65
2:MD:221:THR:CG2	6:4B:189:ARG:NH2	2.18	0.65
6:4A:266:ASN:HD22	6:4A:273:ARG:NH1	1.95	0.65
6:4B:266:ASN:HD22	6:4B:273:ARG:NH1	1.95	0.65
6:4C:266:ASN:HD22	6:4C:273:ARG:NH1	1.95	0.65
7:5A:773:ARG:C	7:5A:775:PRO:CD	2.67	0.65
7:5B:1443:LYS:C	7:5B:1443:LYS:HD2	2.22	0.65
9:7B:12:GLU:O	9:7B:16:THR:OG1	2.14	0.65
9:7E:39:GLY:HA3	9:7F:43:LEU:HD11	1.78	0.65
1:BE:60:LYS:NZ	1:CE:283:HIS:NE2	2.45	0.65
2:CB:220:PRO:CD	1:CC:326:LYS:HG2	2.26	0.65
1:EA:402:ARG:HE	7:5C:824:ARG:HH22	1.40	0.65
2:EB:226:ASN:HD21	13:EB:501:GDP:HN1	1.42	0.65
2:FB:177:ASP:O	1:FC:352:LYS:HA	1.97	0.65
2:FB:226:ASN:HD21	13:FB:502:GDP:HN1	1.42	0.65
1:FC:222:PRO:HG2	2:FD:324:LYS:HD3	1.78	0.65
1:FC:419:SER:C	7:5A:1256:ARG:NH2	2.54	0.65
1:GA:370:LYS:CG	10:8P:17:UNK:C	2.68	0.65
2:GB:212:PHE:CZ	1:GC:326:LYS:CD	2.31	0.65
1:HC:419:SER:HG	5:3C:238:ILE:CD1	2.08	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KD:276:ARG:HH21	6:4B:265:TYR:HB2	1.62	0.65
2:LB:215:LEU:HD13	6:4A:225:PRO:HB3	1.79	0.65
5:3B:224:ASP:N	5:3B:335:LYS:NZ	2.41	0.65
6:4A:151:ARG:HH11	6:4A:151:ARG:CG	2.08	0.65
7:5A:1247:LYS:HE2	7:5A:1248:LEU:HG	1.77	0.65
7:5B:773:ARG:C	7:5B:775:PRO:CD	2.67	0.65
9:7D:12:GLU:O	9:7D:16:THR:OG1	2.14	0.65
1:CC:328:VAL:HG11	1:CC:353:VAL:HG21	1.78	0.65
1:EA:98:ASP:OD1	1:EA:99:ALA:N	2.29	0.65
2:GB:220:PRO:O	1:GC:324:VAL:HG13	1.95	0.65
2:GD:226:ASN:HD21	13:GD:501:GDP:HN1	1.42	0.65
2:GF:226:ASN:HD21	13:GF:501:GDP:HN1	1.42	0.65
2:ID:391:ARG:HG3	1:IE:346:TRP:CD1	2.31	0.65
2:JD:391:ARG:HG3	1:JE:346:TRP:CD1	2.31	0.65
2:LD:177:ASP:OD2	1:LE:248:LEU:HD23	1.97	0.65
1:MC:105:ARG:NH1	2:MD:251:ARG:HD3	2.11	0.65
5:3A:224:ASP:N	5:3A:335:LYS:NZ	2.41	0.65
6:4D:230:TYR:OH	6:4D:240:LYS:HG2	1.96	0.65
7:5A:839:GLU:HA	7:5A:839:GLU:OE1	1.97	0.65
7:5A:1535:ILE:HG12	7:5A:1574:ILE:C	2.21	0.65
7:5B:839:GLU:HA	7:5B:839:GLU:OE1	1.97	0.65
7:5B:1535:ILE:HG12	7:5B:1574:ILE:C	2.21	0.65
7:5C:839:GLU:OE1	7:5C:839:GLU:HA	1.97	0.65
7:5C:1535:ILE:HG12	7:5C:1574:ILE:C	2.21	0.65
8:6A:131:ASP:H	8:6A:136:LEU:HD12	1.60	0.65
2:AF:356:ILE:CD1	6:4A:152:PHE:HE1	2.09	0.65
2:ED:226:ASN:HD21	13:ED:502:GDP:HN1	1.42	0.65
1:EE:430:LYS:NZ	7:5B:834:ASN:ND2	0.69	0.65
1:FC:282:TYR:CZ	10:8N:18:UNK:CB	2.74	0.65
1:FC:404:PHE:HE2	2:FD:345:ILE:HD12	1.62	0.65
2:FD:220:PRO:HD2	1:FE:326:LYS:HG2	1.78	0.65
1:GA:60:LYS:HD2	1:HA:283:HIS:CD2	2.32	0.65
2:GB:208:TYR:OH	1:GC:325:PRO:HB2	1.96	0.65
2:JB:177:ASP:OD1	1:JC:353:VAL:HG12	1.84	0.65
2:JB:212:PHE:CZ	1:JC:326:LYS:CD	2.31	0.65
2:JB:220:PRO:O	1:JC:324:VAL:HG13	1.95	0.65
2:KD:391:ARG:HG3	1:KE:346:TRP:CD1	2.31	0.65
2:LD:55:THR:CG2	2:MD:284:LEU:N	2.60	0.65
1:MA:404:PHE:HE2	2:MB:345:ILE:HD12	1.61	0.65
6:4B:154:LYS:HB2	6:4B:154:LYS:HZ3	1.62	0.65
6:4B:230:TYR:OH	6:4B:240:LYS:HG2	1.95	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1565:GLU:OE1	7:5A:1569:GLU:HB2	1.97	0.65
7:5B:1565:GLU:OE1	7:5B:1569:GLU:HB2	1.97	0.65
7:5C:1565:GLU:OE1	7:5C:1569:GLU:HB2	1.97	0.65
8:6C:20:LYS:NZ	8:6C:101:GLU:OE1	2.26	0.65
9:7C:35:ILE:O	9:7D:43:LEU:CD2	2.44	0.65
9:7E:38:LEU:CD2	9:7F:42:LEU:HD13	2.21	0.65
1:AE:60:LYS:HD3	1:BE:283:HIS:CD2	2.31	0.65
1:BC:224:TYR:HE2	2:BD:246:LEU:HD11	1.62	0.65
1:CE:105:ARG:NH1	2:CF:251:ARG:HD3	2.12	0.65
2:EB:157:GLU:OE1	7:5C:935:LYS:NZ	2.30	0.65
1:EE:396:ASP:O	7:5B:817:LEU:HD11	1.97	0.65
1:IA:98:ASP:OD1	1:IA:99:ALA:N	2.29	0.65
2:ID:212:PHE:CZ	1:IE:326:LYS:CD	2.34	0.65
2:LB:276:ARG:NH1	6:4A:229:GLU:CA	2.38	0.65
1:MC:71:GLU:CD	2:MD:247:ASN:ND2	2.54	0.65
7:5A:1482:SER:HA	7:5A:1485:LYS:CB	2.21	0.65
7:5B:1247:LYS:HE2	7:5B:1248:LEU:HG	1.77	0.65
8:6B:131:ASP:H	8:6B:136:LEU:HD12	1.60	0.65
2:CD:87:PRO:HD3	2:DD:281:TYR:CE2	2.32	0.64
1:DA:176:GLN:O	2:DB:347:ASN:ND2	2.28	0.64
2:FD:401:GLU:N	7:5A:1293:VAL:HG21	2.12	0.64
1:JA:279:GLU:CG	10:8Y:22:UNK:HA	2.27	0.64
1:JC:89:PRO:HG2	1:KC:280:LYS:CB	2.26	0.64
2:KB:55:THR:HG21	2:LB:363:MET:HE1	0.67	0.64
1:KC:87:PHE:O	1:LC:283:HIS:C	2.40	0.64
2:LB:306:ARG:CZ	4:2C:149:ILE:HG21	2.17	0.64
2:LD:310:TYR:CE2	4:2A:147:PHE:CZ	2.84	0.64
1:MA:98:ASP:OD1	1:MA:99:ALA:N	2.29	0.64
6:4C:151:ARG:HH11	6:4C:151:ARG:CG	2.08	0.64
2:AD:284:LEU:CD1	6:4C:144:LEU:CD1	2.42	0.64
2:BB:397:TRP:CB	1:BC:256:GLN:HE22	2.08	0.64
2:CB:86:ARG:HH11	2:DB:281:TYR:HA	1.59	0.64
1:FC:402:ARG:NH2	7:5A:1262:GLU:OE1	2.29	0.64
2:GB:177:ASP:OD1	1:GC:353:VAL:HG12	1.84	0.64
2:IB:220:PRO:O	1:IC:324:VAL:HG13	1.95	0.64
2:JD:86:ARG:HE	2:KD:281:TYR:HD2	1.44	0.64
1:MC:98:ASP:OD1	1:MC:99:ALA:N	2.29	0.64
1:MC:279:GLU:OE1	6:4A:106:ALA:C	2.40	0.64
6:4A:132:LYS:HE2	6:4A:132:LYS:CA	2.27	0.64
6:4A:230:TYR:OH	6:4A:240:LYS:HG2	1.95	0.64
6:4B:132:LYS:HE2	6:4B:132:LYS:CA	2.27	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4C:132:LYS:HE2	6:4C:132:LYS:CA	2.27	0.64
7:5C:1243:ASP:CB	9:7F:8:ARG:NH1	2.60	0.64
7:5C:1325:ARG:HD3	7:5C:1325:ARG:N	2.11	0.64
9:7C:15:VAL:CG1	9:7D:35:ILE:HD12	2.16	0.64
2:AD:320:ARG:HH12	6:4C:152:PHE:C	2.06	0.64
1:BC:101:ASN:HD21	2:BD:252:LYS:HD2	0.83	0.64
1:EC:404:PHE:HE2	2:ED:345:ILE:HD12	1.62	0.64
1:EC:430:LYS:NZ	7:5A:834:ASN:HD21	1.17	0.64
1:GA:89:PRO:CD	1:HA:280:LYS:HD2	2.26	0.64
2:IB:208:TYR:OH	1:IC:325:PRO:HB2	1.96	0.64
1:IC:278:ALA:HB3	10:8W:21:UNK:CA	2.26	0.64
2:ID:424:GLN:HE21	7:5A:1413:GLN:CD	1.71	0.64
1:JA:124:LYS:HD2	1:KA:284:GLU:OE1	1.97	0.64
2:KB:54:ALA:HA	2:LB:285:THR:CG2	2.27	0.64
2:LD:221:THR:CG2	6:4B:220:GLY:N	2.60	0.64
2:MD:78:ALA:HB1	6:4B:178:HIS:CD2	2.32	0.64
6:4B:287:ASP:OD2	6:4B:287:ASP:N	2.30	0.64
6:4C:230:TYR:OH	6:4C:240:LYS:HG2	1.95	0.64
6:4C:286:ASP:O	6:4C:289:LYS:HB3	1.98	0.64
6:4D:132:LYS:HE2	6:4D:132:LYS:CA	2.27	0.64
7:5A:1423:LYS:HA	7:5A:1423:LYS:HZ3	1.62	0.64
2:AB:208:TYR:OH	1:AC:325:PRO:HB2	1.96	0.64
2:BF:87:PRO:HD2	2:CF:281:TYR:CE2	2.32	0.64
2:CB:179:VAL:HG21	1:CC:258:ASN:C	2.21	0.64
1:CC:404:PHE:HE2	2:CD:345:ILE:CD1	2.10	0.64
2:ED:179:VAL:CG2	1:EE:258:ASN:O	2.35	0.64
1:FA:87:PHE:O	1:GA:280:LYS:NZ	2.30	0.64
1:FA:105:ARG:NH1	2:FB:251:ARG:HD3	2.13	0.64
2:FF:54:ALA:HA	2:GF:283:ALA:CB	2.25	0.64
2:HD:391:ARG:HG3	1:HE:346:TRP:CD1	2.31	0.64
2:IB:212:PHE:CE2	1:IC:326:LYS:HD3	2.22	0.64
1:JA:88:HIS:CE1	1:KA:280:LYS:HB3	2.33	0.64
1:JA:401:LYS:CE	2:JB:344:TRP:CZ3	2.67	0.64
1:KA:245:ASP:HB2	6:4C:253:ARG:HE	1.62	0.64
2:KF:159:TYR:CE2	4:2B:35:VAL:O	2.51	0.64
1:LA:47:ASP:OD1	6:4C:203:LYS:HE3	1.97	0.64
2:MB:177:ASP:O	1:MC:352:LYS:CD	2.36	0.64
4:2B:162:GLN:HE21	4:2B:162:GLN:CA	2.03	0.64
5:3B:230:ILE:C	5:3B:332:MET:HG2	2.22	0.64
7:5A:1253:ILE:HD12	7:5A:1261:ALA:HB1	1.80	0.64
7:5A:1325:ARG:HD3	7:5A:1325:ARG:N	2.11	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1253:ILE:HD12	7:5B:1261:ALA:HB1	1.80	0.64
7:5B:1482:SER:HA	7:5B:1485:LYS:CB	2.21	0.64
7:5C:1253:ILE:HD12	7:5C:1261:ALA:HB1	1.80	0.64
7:5C:1423:LYS:HA	7:5C:1423:LYS:HZ3	1.62	0.64
9:7A:35:ILE:O	9:7B:43:LEU:CD2	2.44	0.64
9:7C:18:VAL:HG11	9:7C:42:LEU:HD22	1.77	0.64
9:7C:39:GLY:C	9:7D:43:LEU:HD11	2.23	0.64
9:7E:7:LEU:HG	9:7F:30:ARG:HH21	1.61	0.64
2:AD:322:SER:H	6:4C:156:PHE:HE2	1.42	0.64
2:CB:220:PRO:HD2	1:CC:326:LYS:CE	2.27	0.64
1:EC:222:PRO:CD	2:ED:324:LYS:HD3	2.26	0.64
1:FC:207:GLU:CD	7:5A:915:PHE:CD2	2.76	0.64
2:HB:208:TYR:OH	1:HC:325:PRO:HB2	1.96	0.64
1:HE:419:SER:CB	5:3A:238:ILE:HD12	2.27	0.64
2:KB:208:TYR:OH	1:KC:325:PRO:HB2	1.96	0.64
2:KB:212:PHE:CZ	1:KC:326:LYS:CD	2.31	0.64
2:KB:220:PRO:O	1:KC:324:VAL:HG13	1.95	0.64
2:KD:177:ASP:O	1:KE:352:LYS:CD	2.34	0.64
1:KE:79:ARG:O	1:LE:280:LYS:CE	2.41	0.64
2:LB:220:PRO:O	1:LC:324:VAL:HG13	1.97	0.64
1:LC:245:ASP:OD1	6:4A:216:ARG:NE	2.30	0.64
6:4A:286:ASP:O	6:4A:289:LYS:HB3	1.98	0.64
6:4D:287:ASP:OD2	6:4D:287:ASP:N	2.30	0.64
7:5B:1246:LEU:O	7:5B:1250:VAL:HG23	1.96	0.64
7:5C:1246:LEU:O	7:5C:1250:VAL:HG23	1.96	0.64
7:5C:1524:PHE:CE1	7:5C:1571:MET:CE	2.81	0.64
9:7A:39:GLY:C	9:7B:43:LEU:HD11	2.23	0.64
9:7E:18:VAL:HG11	9:7E:42:LEU:HD22	1.77	0.64
2:AF:356:ILE:CD1	6:4A:152:PHE:CE1	2.75	0.64
1:CC:60:LYS:HZ3	1:DC:283:HIS:CD2	2.11	0.64
1:EA:426:ALA:HB3	7:5C:833:PHE:HB2	1.79	0.64
1:EE:426:ALA:CB	7:5B:833:PHE:HD1	2.00	0.64
1:FA:222:PRO:HG3	2:FB:324:LYS:HD3	1.74	0.64
1:HC:288:VAL:HG11	1:HC:327:ASP:HB3	1.79	0.64
1:HE:288:VAL:HG11	1:HE:327:ASP:HB3	1.79	0.64
2:KB:177:ASP:O	1:KC:352:LYS:CD	2.35	0.64
2:LB:306:ARG:HE	4:2C:149:ILE:CB	2.05	0.64
1:LC:60:LYS:HE3	6:4A:101:ARG:NH1	2.11	0.64
5:3A:230:ILE:C	5:3A:332:MET:HG2	2.22	0.64
7:5A:1524:PHE:CE1	7:5A:1571:MET:CE	2.81	0.64
7:5B:1524:PHE:CE1	7:5B:1571:MET:CE	2.81	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:7A:11:TYR:CE1	9:7B:26:LEU:CB	2.41	0.64
9:7E:35:ILE:O	9:7F:43:LEU:HD23	1.98	0.64
2:AD:320:ARG:CD	6:4C:153:ASP:O	2.45	0.64
2:BD:100:ASN:HB2	1:BE:257:THR:HG21	1.79	0.64
2:BF:100:ASN:ND2	2:BF:401:GLU:OE2	2.31	0.64
1:DA:288:VAL:HG11	1:DA:327:ASP:HB3	1.79	0.64
1:DC:288:VAL:HG11	1:DC:327:ASP:HB3	1.79	0.64
1:DE:288:VAL:HG11	1:DE:327:ASP:HB3	1.79	0.64
1:FA:422:ARG:CZ	7:5C:1170:THR:C	2.68	0.64
2:FB:391:ARG:O	1:FC:262:TYR:OH	2.14	0.64
2:FD:177:ASP:HA	1:FE:353:VAL:HG12	1.80	0.64
1:HA:288:VAL:HG11	1:HA:327:ASP:HB3	1.79	0.64
2:HB:220:PRO:O	1:HC:324:VAL:HG13	1.95	0.64
1:KA:87:PHE:N	1:LA:283:HIS:O	2.31	0.64
2:KD:125:GLU:CG	2:LD:336:LYS:HE2	2.21	0.64
2:KD:273:LEU:HG	6:4B:268:LEU:HD21	1.75	0.64
2:LB:55:THR:CG2	2:MB:284:LEU:N	2.61	0.64
2:LB:221:THR:HG23	6:4A:219:ASN:HD22	1.63	0.64
2:MB:100:ASN:HB2	1:MC:257:THR:HG21	1.79	0.64
8:6C:14:ARG:NE	8:6C:89:ILE:HG23	2.13	0.64
9:7A:11:TYR:CD2	9:7B:23:LEU:HD22	2.33	0.64
9:7C:11:TYR:CD2	9:7D:23:LEU:HD22	2.33	0.64
2:AD:321:MET:C	6:4C:156:PHE:HD2	2.05	0.64
1:CC:101:ASN:HD21	2:CD:252:LYS:HD2	0.81	0.64
1:CE:178:SER:OG	2:CF:347:ASN:HB3	1.97	0.64
2:DB:179:VAL:CG2	1:DC:258:ASN:O	2.37	0.64
1:DE:401:LYS:CE	2:DF:344:TRP:CZ3	2.71	0.64
2:DF:100:ASN:ND2	2:DF:401:GLU:OE2	2.31	0.64
2:EB:100:ASN:ND2	2:EB:401:GLU:OE2	2.31	0.64
2:EB:177:ASP:O	1:EC:352:LYS:CD	2.36	0.64
2:ED:100:ASN:ND2	2:ED:401:GLU:OE2	2.31	0.64
1:FC:288:VAL:HG11	1:FC:327:ASP:HB3	1.79	0.64
1:FE:224:TYR:HE2	2:FF:246:LEU:HD11	1.61	0.64
1:IE:279:GLU:HA	10:8X:22:UNK:CB	2.28	0.64
2:KB:86:ARG:CG	2:LB:288:GLU:CD	2.68	0.64
1:LA:60:LYS:HD3	1:MA:283:HIS:CB	2.28	0.64
1:LA:288:VAL:HG11	1:LA:327:ASP:HB3	1.79	0.64
2:LB:221:THR:CG2	6:4A:220:GLY:N	2.60	0.64
1:LE:245:ASP:CG	6:4B:216:ARG:HE	2.05	0.64
1:LE:288:VAL:HG11	1:LE:327:ASP:HB3	1.80	0.64
5:3B:221:VAL:HG13	5:3B:230:ILE:HG23	1.80	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:3C:230:ILE:C	5:3C:332:MET:HG2	2.22	0.64
6:4B:286:ASP:O	6:4B:289:LYS:HB3	1.98	0.64
7:5A:1246:LEU:O	7:5A:1250:VAL:HG23	1.96	0.64
7:5C:1491:LEU:HD13	7:5C:1495:PHE:HD1	0.53	0.64
8:6B:20:LYS:NZ	8:6B:101:GLU:OE1	2.26	0.64
2:BB:179:VAL:CG2	1:BC:258:ASN:CA	2.76	0.64
2:BD:100:ASN:ND2	2:BD:401:GLU:OE2	2.31	0.64
2:CD:100:ASN:ND2	2:CD:401:GLU:OE2	2.31	0.64
2:CF:100:ASN:ND2	2:CF:401:GLU:OE2	2.31	0.64
2:DD:100:ASN:ND2	2:DD:401:GLU:OE2	2.31	0.64
2:EF:100:ASN:ND2	2:EF:401:GLU:OE2	2.31	0.64
1:FA:288:VAL:HG11	1:FA:327:ASP:HB3	1.80	0.64
2:FB:54:ALA:HB1	2:GB:282:ARG:C	2.22	0.64
2:FD:100:ASN:ND2	2:FD:401:GLU:OE2	2.31	0.64
1:FE:288:VAL:HG11	1:FE:327:ASP:HB3	1.80	0.64
2:FF:100:ASN:ND2	2:FF:401:GLU:OE2	2.31	0.64
2:FF:106:TYR:CE1	7:5B:1295:LYS:N	2.64	0.64
1:IA:279:GLU:HG2	10:8V:22:UNK:HA	1.78	0.64
1:IC:401:LYS:HE3	2:ID:344:TRP:CZ3	2.33	0.64
1:LC:288:VAL:HG11	1:LC:327:ASP:HB3	1.80	0.64
2:LD:228:LEU:HD21	6:4B:225:PRO:CG	2.28	0.64
1:LE:407:TRP:CE3	2:LF:255:VAL:HG22	2.26	0.64
4:2A:162:GLN:HE21	4:2A:162:GLN:CA	2.03	0.64
5:3A:221:VAL:HG13	5:3A:230:ILE:HG23	1.80	0.64
6:4C:154:LYS:HB2	6:4C:154:LYS:HZ3	1.63	0.64
6:4D:286:ASP:O	6:4D:289:LYS:HB3	1.98	0.64
7:5B:1325:ARG:HD3	7:5B:1325:ARG:N	2.11	0.64
1:BA:288:VAL:HG11	1:BA:327:ASP:HB3	1.79	0.64
2:BB:100:ASN:ND2	2:BB:401:GLU:OE2	2.31	0.64
1:CA:105:ARG:NH1	2:CB:251:ARG:HD3	2.13	0.64
2:CB:100:ASN:ND2	2:CB:401:GLU:OE2	2.31	0.64
1:CC:105:ARG:NH1	2:CD:251:ARG:HD3	2.13	0.64
1:DA:401:LYS:CE	2:DB:344:TRP:CZ3	2.72	0.64
2:DB:100:ASN:ND2	2:DB:401:GLU:OE2	2.31	0.64
2:DD:179:VAL:HG21	1:DE:258:ASN:C	2.22	0.64
1:EC:11:GLN:NE2	2:ED:247:ASN:OD1	2.31	0.64
2:FB:100:ASN:ND2	2:FB:401:GLU:OE2	2.31	0.64
2:FB:397:TRP:CH2	1:FC:255:PHE:O	2.45	0.64
2:FD:220:PRO:CD	1:FE:326:LYS:HE2	2.26	0.64
1:FE:207:GLU:CD	7:5B:915:PHE:CD2	2.76	0.64
1:GA:56:THR:OG1	1:HA:284:GLU:CA	2.45	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HB:397:TRP:CD2	1:HC:256:GLN:O	2.30	0.64
2:HF:100:ASN:ND2	2:HF:401:GLU:OE2	2.31	0.64
1:JA:288:VAL:HG11	1:JA:327:ASP:HB3	1.79	0.64
1:JC:401:LYS:HE3	2:JD:344:TRP:CZ3	2.33	0.64
1:JE:288:VAL:HG11	1:JE:327:ASP:HB3	1.79	0.64
1:KA:401:LYS:CE	2:KB:344:TRP:CZ3	2.67	0.64
1:KC:401:LYS:HE3	2:KD:344:TRP:CZ3	2.33	0.64
2:KF:272:PRO:C	6:4D:268:LEU:HD21	2.19	0.64
2:LB:228:LEU:HD21	6:4A:225:PRO:CG	2.28	0.64
2:LD:221:THR:HG23	6:4B:219:ASN:HD22	1.62	0.64
2:LF:100:ASN:ND2	2:LF:401:GLU:OE2	2.31	0.64
2:MB:78:ALA:CB	6:4A:178:HIS:CD2	2.80	0.64
2:MB:100:ASN:ND2	2:MB:401:GLU:OE2	2.31	0.64
7:5A:1030:PHE:CE2	7:5A:1034:ILE:HD11	2.33	0.64
7:5A:1491:LEU:HD13	7:5A:1495:PHE:HD1	0.53	0.64
7:5B:1030:PHE:CE2	7:5B:1034:ILE:HD11	2.33	0.64
7:5B:1332:GLN:HE21	7:5B:1332:GLN:N	1.96	0.64
8:6A:14:ARG:NE	8:6A:89:ILE:HG23	2.13	0.64
1:BC:288:VAL:HG11	1:BC:327:ASP:HB3	1.79	0.63
2:CD:176:SER:OG	1:CE:349:THR:OG1	2.16	0.63
1:EC:430:LYS:NZ	7:5A:834:ASN:HD22	0.36	0.63
1:FC:105:ARG:NH1	2:FD:251:ARG:HD3	2.13	0.63
1:GA:60:LYS:CD	1:HA:283:HIS:CG	2.81	0.63
2:GB:55:THR:CG2	2:HB:284:LEU:N	2.58	0.63
1:HC:420:GLU:OE1	5:3C:215:TYR:CE2	2.51	0.63
2:HD:100:ASN:ND2	2:HD:401:GLU:OE2	2.31	0.63
2:IB:424:GLN:NE2	7:5C:1413:GLN:NE2	0.75	0.63
2:JB:177:ASP:OD2	1:JC:248:LEU:HD23	1.97	0.63
1:JC:87:PHE:O	1:KC:283:HIS:NE2	2.29	0.63
1:JC:288:VAL:HG11	1:JC:327:ASP:HB3	1.79	0.63
2:KB:273:LEU:HA	6:4A:268:LEU:HG	1.73	0.63
2:LB:222:TYR:CD2	1:LC:247:ALA:HB1	2.34	0.63
2:LB:379:LYS:CE	4:2C:164:ARG:O	2.46	0.63
2:LD:100:ASN:ND2	2:LD:401:GLU:OE2	2.31	0.63
2:LD:228:LEU:HD23	6:4B:225:PRO:HG2	1.80	0.63
2:LF:231:ALA:HB1	6:4D:226:ILE:HD13	1.74	0.63
4:2C:162:GLN:HE21	4:2C:162:GLN:CA	2.03	0.63
5:3C:221:VAL:HG13	5:3C:230:ILE:HG23	1.80	0.63
7:5A:1332:GLN:HE21	7:5A:1332:GLN:N	1.97	0.63
7:5B:1491:LEU:HD13	7:5B:1495:PHE:HD1	0.53	0.63
7:5C:1552:LYS:HZ1	7:5C:1563:SER:CA	2.09	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:6B:14:ARG:NE	8:6B:89:ILE:HG23	2.13	0.63
9:7C:15:VAL:CB	9:7D:35:ILE:HD12	2.24	0.63
2:BB:177:ASP:O	1:BC:352:LYS:HA	1.98	0.63
1:BE:288:VAL:HG11	1:BE:327:ASP:HB3	1.80	0.63
1:EA:419:SER:OG	7:5C:830:VAL:HG21	1.96	0.63
2:GB:100:ASN:ND2	2:GB:401:GLU:OE2	2.31	0.63
2:GF:100:ASN:ND2	2:GF:401:GLU:OE2	2.31	0.63
2:HB:100:ASN:ND2	2:HB:401:GLU:OE2	2.31	0.63
2:KF:118:ASP:CG	4:2B:148:ASN:ND2	2.55	0.63
2:LB:100:ASN:ND2	2:LB:401:GLU:OE2	2.31	0.63
1:MC:372:MET:HE2	6:4A:96:VAL:CA	2.28	0.63
2:MD:100:ASN:ND2	2:MD:401:GLU:OE2	2.31	0.63
2:MD:397:TRP:CB	1:ME:256:GLN:HE22	2.08	0.63
7:5B:1524:PHE:HD1	7:5B:1567:PHE:CZ	2.07	0.63
7:5C:1030:PHE:CE2	7:5C:1034:ILE:HD11	2.33	0.63
7:5C:1524:PHE:HE1	7:5C:1571:MET:SD	2.22	0.63
9:7C:10:TYR:CZ	9:7D:34:PRO:HB3	2.32	0.63
2:BB:179:VAL:HG21	1:BC:258:ASN:C	2.22	0.63
2:CD:86:ARG:HH11	2:DD:281:TYR:HA	1.60	0.63
2:CF:87:PRO:HD3	2:DF:281:TYR:CE2	2.33	0.63
2:GD:100:ASN:ND2	2:GD:401:GLU:OE2	2.31	0.63
1:GE:288:VAL:HG11	1:GE:327:ASP:HB3	1.79	0.63
2:HB:86:ARG:HA	2:IB:281:TYR:CE1	2.33	0.63
2:IB:100:ASN:ND2	2:IB:401:GLU:OE2	2.31	0.63
1:JE:89:PRO:HG2	1:KE:280:LYS:CB	2.28	0.63
2:KF:100:ASN:ND2	2:KF:401:GLU:OE2	2.31	0.63
2:KF:128:ASP:C	4:2B:38:VAL:HG23	2.24	0.63
1:LA:60:LYS:NZ	1:MA:283:HIS:CE1	2.66	0.63
2:LB:178:THR:HA	1:LC:352:LYS:HD3	1.80	0.63
2:LB:227:HIS:HD1	6:4A:226:ILE:HG13	1.63	0.63
2:MD:177:ASP:CG	1:ME:353:VAL:HG11	2.06	0.63
7:5A:1524:PHE:HE1	7:5A:1571:MET:SD	2.22	0.63
7:5B:1491:LEU:CA	7:5B:1495:PHE:CB	2.62	0.63
7:5C:1332:GLN:HE21	7:5C:1332:GLN:N	1.97	0.63
9:7A:10:TYR:CZ	9:7B:34:PRO:HB3	2.32	0.63
2:AB:100:ASN:ND2	2:AB:401:GLU:OE2	2.31	0.63
2:AB:397:TRP:CD2	1:AC:256:GLN:O	2.30	0.63
1:CC:222:PRO:HD2	2:CD:324:LYS:HD3	1.78	0.63
1:EC:402:ARG:CZ	7:5A:824:ARG:NH2	2.62	0.63
1:EE:178:SER:OG	2:EF:347:ASN:HB3	1.98	0.63
2:FD:177:ASP:CA	1:FE:353:VAL:HG12	2.28	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KD:100:ASN:ND2	2:KD:401:GLU:OE2	2.31	0.63
2:MF:100:ASN:ND2	2:MF:401:GLU:OE2	2.31	0.63
7:5B:1253:ILE:HD11	9:7D:20:LEU:HD13	1.81	0.63
7:5C:1548:VAL:CG1	7:5C:1566:GLU:N	2.61	0.63
1:CC:224:TYR:HE2	2:CD:246:LEU:HD11	1.61	0.63
1:GA:288:VAL:HG11	1:GA:327:ASP:HB3	1.79	0.63
1:GC:288:VAL:HG11	1:GC:327:ASP:HB3	1.79	0.63
1:HC:401:LYS:HE3	2:HD:344:TRP:CZ3	2.33	0.63
2:IB:100:ASN:HB2	1:IC:257:THR:HG21	1.81	0.63
2:ID:100:ASN:ND2	2:ID:401:GLU:OE2	2.31	0.63
2:JF:86:ARG:NH1	2:KF:280:GLN:CB	2.36	0.63
2:KB:100:ASN:ND2	2:KB:401:GLU:OE2	2.31	0.63
1:LC:176:GLN:HE22	4:2A:42:PHE:CB	2.10	0.63
7:5A:1524:PHE:HD1	7:5A:1567:PHE:CZ	2.07	0.63
7:5B:1524:PHE:HE1	7:5B:1571:MET:SD	2.22	0.63
2:AF:217:LEU:HD23	6:4A:132:LYS:HG2	1.77	0.63
2:BD:179:VAL:HG21	1:BE:258:ASN:C	2.23	0.63
1:CA:178:SER:OG	2:CB:347:ASN:HB3	1.98	0.63
1:CE:404:PHE:HE2	2:CF:345:ILE:CD1	2.11	0.63
2:DB:60:VAL:HG21	2:EB:281:TYR:CD1	2.34	0.63
1:EE:288:VAL:HG11	1:EE:327:ASP:HB3	1.79	0.63
2:GD:178:THR:HB	2:GD:181:GLU:HG3	1.81	0.63
1:HE:222:PRO:CD	2:HF:324:LYS:HD3	2.29	0.63
2:IF:56:GLY:N	10:9A:36:UNK:HA	2.12	0.63
2:IF:100:ASN:ND2	2:IF:401:GLU:OE2	2.31	0.63
2:KB:82:GLY:C	2:LB:281:TYR:CE1	2.76	0.63
2:KB:177:ASP:OD2	1:KC:248:LEU:HD23	1.97	0.63
2:LD:54:ALA:CB	2:MD:281:TYR:O	2.47	0.63
4:2B:164:ARG:HH11	4:2B:164:ARG:HG2	1.63	0.63
7:5A:1548:VAL:CG1	7:5A:1566:GLU:N	2.61	0.63
7:5B:1383:GLU:OE1	7:5B:1383:GLU:N	2.32	0.63
7:5C:1524:PHE:HD1	7:5C:1567:PHE:CZ	2.07	0.63
2:AD:100:ASN:ND2	2:AD:401:GLU:OE2	2.31	0.63
2:DB:86:ARG:N	2:EB:281:TYR:HE1	1.95	0.63
2:DD:179:VAL:CG2	1:DE:258:ASN:CA	2.77	0.63
1:EC:288:VAL:HG11	1:EC:327:ASP:HB3	1.79	0.63
1:GA:89:PRO:CG	1:HA:280:LYS:HZ2	2.08	0.63
2:GB:100:ASN:HB2	1:GC:257:THR:HG21	1.81	0.63
2:GB:178:THR:HB	2:GB:181:GLU:HG3	1.81	0.63
1:GC:401:LYS:CE	2:GD:344:TRP:CZ3	2.62	0.63
2:GF:178:THR:HB	2:GF:181:GLU:HG3	1.81	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ID:100:ASN:HB2	1:IE:257:THR:HG21	1.81	0.63
2:ID:178:THR:HB	2:ID:181:GLU:HG3	1.81	0.63
1:IE:222:PRO:CD	2:IF:324:LYS:HD3	2.29	0.63
1:JA:89:PRO:HG2	1:KA:280:LYS:N	2.14	0.63
1:KA:79:ARG:HD2	1:LA:280:LYS:HD2	1.81	0.63
2:KF:272:PRO:O	6:4D:268:LEU:HD23	1.89	0.63
2:MB:177:ASP:O	1:MC:352:LYS:HA	1.98	0.63
7:5A:1383:GLU:OE1	7:5A:1383:GLU:N	2.32	0.63
2:AD:55:THR:CG2	2:BD:283:ALA:CB	2.73	0.63
2:BF:85:PHE:O	2:CF:281:TYR:OH	2.16	0.63
2:BF:178:THR:HB	2:BF:181:GLU:HG3	1.81	0.63
1:CE:60:LYS:HZ3	1:DE:283:HIS:CE1	2.16	0.63
1:FA:402:ARG:CD	7:5C:1259:TYR:CD2	2.75	0.63
1:FE:422:ARG:CZ	7:5B:1170:THR:CA	2.76	0.63
2:GD:100:ASN:HB2	1:GE:257:THR:HG21	1.81	0.63
2:IB:177:ASP:OD2	1:IC:248:LEU:HD23	1.97	0.63
2:IB:178:THR:HB	2:IB:181:GLU:HG3	1.81	0.63
2:IF:178:THR:HB	2:IF:181:GLU:HG3	1.81	0.63
1:JE:222:PRO:CD	2:JF:324:LYS:HD3	2.29	0.63
1:JE:370:LYS:HE2	10:9A:17:UNK:CB	2.24	0.63
2:KB:212:PHE:CE2	1:KC:326:LYS:HD3	2.22	0.63
1:KE:222:PRO:CD	2:KF:324:LYS:HD3	2.29	0.63
2:LD:177:ASP:CG	1:LE:353:VAL:HG13	2.16	0.63
2:LF:274:THR:O	6:4D:228:LEU:HD21	1.90	0.63
4:2A:164:ARG:HH11	4:2A:164:ARG:HG2	1.63	0.63
4:2C:164:ARG:HG2	4:2C:164:ARG:HH11	1.63	0.63
7:5B:1436:ARG:HH11	7:5B:1436:ARG:HG3	1.63	0.63
7:5B:1548:VAL:CG1	7:5B:1566:GLU:N	2.61	0.63
7:5C:1142:PHE:HD1	7:5C:1146:LEU:HD12	1.63	0.63
7:5C:1436:ARG:HH11	7:5C:1436:ARG:HG3	1.63	0.63
1:AE:288:VAL:HG11	1:AE:327:ASP:HB3	1.79	0.63
2:BB:178:THR:HB	2:BB:181:GLU:HG3	1.81	0.63
2:BD:178:THR:HB	2:BD:181:GLU:HG3	1.81	0.63
2:CD:178:THR:HB	2:CD:181:GLU:HG3	1.81	0.63
1:CE:176:GLN:O	2:CF:347:ASN:ND2	2.31	0.63
1:EA:288:VAL:HG11	1:EA:327:ASP:HB3	1.79	0.63
2:FD:54:ALA:HA	2:GD:283:ALA:HB3	1.78	0.63
1:FE:60:LYS:CD	1:GE:283:HIS:HD2	2.09	0.63
2:JF:100:ASN:ND2	2:JF:401:GLU:OE2	2.31	0.63
1:LA:60:LYS:HZ3	1:MA:283:HIS:CE1	2.17	0.63
1:LE:60:LYS:NZ	1:ME:283:HIS:CE1	2.67	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MD:178:THR:HB	2:MD:181:GLU:HG3	1.81	0.63
7:5A:1436:ARG:HH11	7:5A:1436:ARG:HG3	1.63	0.63
7:5A:1552:LYS:HZ1	7:5A:1563:SER:CA	2.10	0.63
7:5C:1355:GLN:C	7:5C:1358:LYS:HG3	2.15	0.63
7:5C:1383:GLU:OE1	7:5C:1383:GLU:N	2.32	0.63
1:AC:342:GLN:HE21	3:1C:55:HIS:CD2	2.09	0.62
1:AC:401:LYS:HE3	2:AD:344:TRP:CZ3	2.33	0.62
2:AD:55:THR:HG21	2:BD:283:ALA:HA	1.80	0.62
2:AF:100:ASN:ND2	2:AF:401:GLU:OE2	2.31	0.62
2:CF:178:THR:HB	2:CF:181:GLU:HG3	1.81	0.62
1:DA:11:GLN:OE1	2:DB:245:GLN:O	2.16	0.62
2:EB:212:PHE:HZ	1:EC:326:LYS:CE	2.10	0.62
1:FA:419:SER:C	7:5C:1256:ARG:NH2	2.57	0.62
2:FD:397:TRP:CD2	1:FE:256:GLN:O	2.13	0.62
1:IA:60:LYS:NZ	1:JA:283:HIS:CD2	2.65	0.62
2:IB:86:ARG:CB	2:JB:281:TYR:CE1	2.78	0.62
2:JD:86:ARG:CZ	2:KD:280:GLN:CA	2.77	0.62
2:JD:208:TYR:OH	1:JE:325:PRO:HB2	1.99	0.62
1:KC:88:HIS:CG	1:LC:284:GLU:HB2	2.32	0.62
2:KF:276:ARG:NH2	6:4D:265:TYR:CA	2.55	0.62
9:7A:10:TYR:CE2	9:7B:34:PRO:HB3	2.34	0.62
1:AA:288:VAL:HG11	1:AA:327:ASP:HB3	1.79	0.62
1:AC:288:VAL:HG11	1:AC:327:ASP:HB3	1.80	0.62
2:AD:220:PRO:O	1:AE:324:VAL:HG13	1.98	0.62
1:DC:178:SER:OG	2:DD:347:ASN:HB3	1.98	0.62
2:EF:222:TYR:O	2:EF:226:ASN:ND2	2.28	0.62
2:FB:177:ASP:CG	1:FC:353:VAL:HG13	1.94	0.62
1:GE:222:PRO:CD	2:GF:324:LYS:HD3	2.29	0.62
2:GF:309:ARG:NH2	2:GF:426:GLN:O	2.32	0.62
2:IB:222:TYR:O	2:IB:226:ASN:ND2	2.27	0.62
2:ID:87:PRO:CD	2:JD:281:TYR:CE2	2.83	0.62
2:JD:100:ASN:ND2	2:JD:401:GLU:OE2	2.31	0.62
2:LB:274:THR:H	6:4A:228:LEU:HD21	1.64	0.62
2:LB:309:ARG:NH2	2:LB:426:GLN:O	2.32	0.62
2:LF:274:THR:HG23	6:4D:228:LEU:HD22	1.81	0.62
2:MB:178:THR:HB	2:MB:181:GLU:HG3	1.81	0.62
7:5A:1142:PHE:HD1	7:5A:1146:LEU:HD12	1.63	0.62
7:5A:1491:LEU:CA	7:5A:1495:PHE:CB	2.62	0.62
7:5C:1126:PRO:HG2	8:6C:246:TYR:OH	1.99	0.62
2:AB:177:ASP:CG	1:AC:353:VAL:HG11	1.96	0.62
2:AD:357:PRO:O	6:4C:151:ARG:CZ	2.47	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:178:THR:HB	2:CB:181:GLU:HG3	1.81	0.62
1:CE:288:VAL:HG11	1:CE:327:ASP:HB3	1.80	0.62
2:CF:86:ARG:HB2	2:DF:281:TYR:CE1	2.31	0.62
1:DA:178:SER:OG	2:DB:347:ASN:HB3	1.98	0.62
2:ED:309:ARG:NH2	2:ED:426:GLN:O	2.32	0.62
1:FA:56:THR:OG1	1:GA:285:GLN:CA	2.47	0.62
1:GC:401:LYS:HE3	2:GD:344:TRP:CZ3	2.33	0.62
1:HC:101:ASN:HD21	2:HD:252:LYS:HD2	0.79	0.62
1:IC:279:GLU:CD	10:8W:22:UNK:CA	2.71	0.62
2:JD:177:ASP:OD2	1:JE:248:LEU:HD23	1.99	0.62
2:KD:276:ARG:NH2	6:4B:271:GLU:C	2.52	0.62
2:LB:228:LEU:CD2	6:4A:225:PRO:HG2	2.30	0.62
2:LB:296:ALA:HB3	4:2C:149:ILE:CG2	1.97	0.62
2:LF:224:ASP:CA	6:4D:219:ASN:ND2	2.62	0.62
2:LF:306:ARG:NH2	4:2B:149:ILE:HG22	2.14	0.62
7:5A:1263:GLN:OE1	9:7A:8:ARG:NH1	2.32	0.62
7:5A:1355:GLN:C	7:5A:1358:LYS:HG3	2.15	0.62
8:6C:107:PRO:HA	8:6C:118:GLU:OE1	1.99	0.62
9:7C:10:TYR:CE2	9:7D:34:PRO:HB3	2.34	0.62
2:BD:85:PHE:O	2:CD:281:TYR:OH	2.16	0.62
1:FA:402:ARG:HH11	7:5C:1259:TYR:HD2	1.46	0.62
2:FF:331:LEU:HD22	7:5B:915:PHE:CE2	2.33	0.62
2:HB:177:ASP:OD2	1:HC:248:LEU:HD23	1.97	0.62
2:HD:177:ASP:OD1	1:HE:353:VAL:HG12	1.84	0.62
2:HD:212:PHE:HZ	1:HE:326:LYS:HD3	0.54	0.62
2:LF:54:ALA:CB	2:MF:281:TYR:O	2.48	0.62
1:MA:288:VAL:HG11	1:MA:327:ASP:HB3	1.79	0.62
2:MF:178:THR:HB	2:MF:181:GLU:HG3	1.81	0.62
7:5B:1142:PHE:HD1	7:5B:1146:LEU:HD12	1.63	0.62
7:5B:1355:GLN:C	7:5B:1358:LYS:HG3	2.15	0.62
9:7E:12:GLU:CA	9:7E:16:THR:OG1	2.46	0.62
2:AB:100:ASN:HB2	1:AC:257:THR:HG21	1.81	0.62
2:AF:40:SER:HG	6:4A:152:PHE:HE2	0.65	0.62
2:BB:212:PHE:CE2	1:BC:326:LYS:HD3	2.20	0.62
1:CA:288:VAL:HG11	1:CA:327:ASP:HB3	1.80	0.62
1:CC:370:LYS:HE3	10:8E:17:UNK:CB	2.20	0.62
2:EB:100:ASN:HB2	1:EC:257:THR:HG21	1.81	0.62
1:EC:282:TYR:CD2	10:8K:18:UNK:CB	2.81	0.62
2:ED:157:GLU:HA	7:5A:945:LYS:NZ	2.13	0.62
2:ED:177:ASP:C	1:EE:352:LYS:HA	2.25	0.62
1:FA:100:ALA:HB1	2:FB:252:LYS:CA	2.29	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FE:419:SER:CB	7:5B:1256:ARG:CG	2.77	0.62
1:GA:89:PRO:HD3	1:HA:280:LYS:CE	2.24	0.62
2:GD:208:TYR:OH	1:GE:325:PRO:HB2	1.99	0.62
2:GD:220:PRO:O	1:GE:324:VAL:HG13	1.98	0.62
1:IA:108:TYR:HA	1:IA:112:LYS:HE3	1.81	0.62
1:IC:108:TYR:HA	1:IC:112:LYS:HE3	1.81	0.62
2:ID:177:ASP:OD1	1:IE:353:VAL:HG12	1.84	0.62
2:KD:178:THR:HB	2:KD:181:GLU:HG3	1.81	0.62
2:KF:158:GLU:CA	4:2B:34:ASN:CB	2.48	0.62
2:KF:178:THR:HB	2:KF:181:GLU:HG3	1.81	0.62
2:LB:228:LEU:HD21	6:4A:225:PRO:CB	2.28	0.62
2:LD:306:ARG:CZ	4:2A:149:ILE:HG21	2.22	0.62
1:LE:60:LYS:HD2	1:ME:283:HIS:CD2	2.31	0.62
1:MC:288:VAL:HG11	1:MC:327:ASP:HB3	1.79	0.62
5:3C:232:ALA:HB2	5:3C:335:LYS:C	2.25	0.62
7:5C:1487:ASN:OD1	7:5C:1568:LYS:HG3	1.99	0.62
8:6A:107:PRO:HA	8:6A:118:GLU:OE1	1.99	0.62
9:7A:12:GLU:CA	9:7A:16:THR:OG1	2.46	0.62
1:AC:60:LYS:HD3	1:BC:283:HIS:CD2	2.34	0.62
1:AC:101:ASN:HD21	2:AD:252:LYS:HD2	0.79	0.62
2:AF:321:MET:C	6:4A:156:PHE:CD2	2.78	0.62
1:CC:288:VAL:HG11	1:CC:327:ASP:HB3	1.80	0.62
2:EB:309:ARG:NH2	2:EB:426:GLN:O	2.32	0.62
2:FB:178:THR:HB	2:FB:181:GLU:HG3	1.81	0.62
1:FC:402:ARG:CZ	7:5A:1259:TYR:HA	2.30	0.62
2:GB:55:THR:CA	2:HB:283:ALA:HB2	2.26	0.62
2:GB:177:ASP:OD2	1:GC:248:LEU:HD23	1.97	0.62
1:GC:101:ASN:HD21	2:GD:252:LYS:HD2	0.79	0.62
2:GD:309:ARG:NH2	2:GD:426:GLN:O	2.32	0.62
1:HA:108:TYR:HA	1:HA:112:LYS:HE3	1.81	0.62
1:HE:404:PHE:HE2	2:HF:345:ILE:HD12	1.65	0.62
2:JB:86:ARG:CZ	2:KB:281:TYR:N	2.56	0.62
2:JB:100:ASN:ND2	2:JB:401:GLU:OE2	2.31	0.62
2:JB:100:ASN:HB2	1:JC:257:THR:HG21	1.81	0.62
1:JC:101:ASN:HD21	2:JD:252:LYS:HD2	0.79	0.62
2:LB:55:THR:CG2	2:MB:283:ALA:C	2.72	0.62
2:LD:215:LEU:CD1	6:4B:225:PRO:HB3	2.29	0.62
2:LD:274:THR:O	6:4B:228:LEU:HD21	1.94	0.62
2:LF:223:GLY:HA3	6:4D:219:ASN:HA	1.80	0.62
1:MC:404:PHE:CE2	2:MD:345:ILE:HD11	2.35	0.62
1:ME:288:VAL:HG11	1:ME:327:ASP:HB3	1.80	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:179:VAL:CG2	1:AE:258:ASN:CA	2.78	0.62
2:CB:179:VAL:CG2	1:CC:258:ASN:O	2.37	0.62
2:DB:176:SER:OG	1:DC:349:THR:OG1	2.16	0.62
2:DF:178:THR:HB	2:DF:181:GLU:HG3	1.81	0.62
1:EA:401:LYS:HE3	2:EB:344:TRP:CZ3	2.34	0.62
1:EC:419:SER:OG	7:5A:830:VAL:HG21	1.99	0.62
2:ED:157:GLU:OE1	7:5A:935:LYS:NZ	2.32	0.62
2:FB:54:ALA:HB1	2:GB:283:ALA:N	2.13	0.62
2:GB:309:ARG:NH2	2:GB:426:GLN:O	2.32	0.62
1:HC:108:TYR:HA	1:HC:112:LYS:HE3	1.81	0.62
2:ID:177:ASP:O	1:IE:352:LYS:CD	2.34	0.62
1:KA:108:TYR:HA	1:KA:112:LYS:HE3	1.81	0.62
2:KD:125:GLU:HB2	2:LD:336:LYS:HE2	1.80	0.62
2:KD:177:ASP:OD2	1:KE:248:LEU:HD23	1.98	0.62
2:KF:125:GLU:HG2	2:LF:336:LYS:HZ1	1.58	0.62
2:LD:212:PHE:CZ	1:LE:326:LYS:CD	2.29	0.62
1:MC:372:MET:CE	6:4A:96:VAL:CA	2.78	0.62
2:MD:100:ASN:HB2	1:ME:257:THR:HG21	1.81	0.62
5:3A:232:ALA:HB2	5:3A:335:LYS:C	2.25	0.62
7:5A:1077:ASN:HA	7:5A:1083:THR:HG21	1.81	0.62
7:5B:1077:ASN:HA	7:5B:1083:THR:HG21	1.81	0.62
7:5C:1491:LEU:CA	7:5C:1495:PHE:CB	2.62	0.62
8:6B:107:PRO:HA	8:6B:118:GLU:OE1	1.99	0.62
1:AE:222:PRO:CD	2:AF:324:LYS:HD3	2.29	0.62
2:AF:359:LYS:CA	6:4A:151:ARG:HH22	1.98	0.62
1:BE:224:TYR:HE2	2:BF:246:LEU:HD11	1.65	0.62
1:DC:224:TYR:HE2	2:DD:246:LEU:HD11	1.65	0.62
2:DD:178:THR:HB	2:DD:181:GLU:HG3	1.81	0.62
2:DF:55:THR:HG23	2:EF:283:ALA:HA	1.81	0.62
2:EB:178:THR:HB	2:EB:181:GLU:HG3	1.81	0.62
1:FA:419:SER:OG	7:5C:1256:ARG:HD3	1.98	0.62
2:GB:177:ASP:O	1:GC:352:LYS:CD	2.35	0.62
2:GD:177:ASP:O	1:GE:352:LYS:CD	2.34	0.62
1:HE:108:TYR:HA	1:HE:112:LYS:HE3	1.81	0.62
2:IB:177:ASP:O	1:IC:352:LYS:CD	2.35	0.62
1:IC:101:ASN:HD21	2:ID:252:LYS:HD2	0.79	0.62
2:ID:177:ASP:OD2	1:IE:248:LEU:HD23	1.99	0.62
1:IE:108:TYR:HA	1:IE:112:LYS:HE3	1.81	0.62
2:JB:212:PHE:CE2	1:JC:326:LYS:HD3	2.22	0.62
1:JC:108:TYR:HA	1:JC:112:LYS:HE3	1.81	0.62
1:JE:108:TYR:HA	1:JE:112:LYS:HE3	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JF:178:THR:HB	2:JF:181:GLU:HG3	1.81	0.62
2:KB:178:THR:HB	2:KB:181:GLU:HG3	1.81	0.62
2:KF:77:ARG:CD	2:LF:281:TYR:CZ	2.82	0.62
2:LB:231:ALA:HB1	6:4A:226:ILE:HD13	1.69	0.62
2:LF:178:THR:HB	2:LF:181:GLU:HG3	1.81	0.62
2:LF:215:LEU:CD1	6:4D:225:PRO:HB3	2.29	0.62
5:3B:232:ALA:HB2	5:3B:335:LYS:C	2.25	0.62
7:5A:1487:ASN:OD1	7:5A:1568:LYS:HG3	1.99	0.62
7:5B:1552:LYS:HZ1	7:5B:1563:SER:CA	2.10	0.62
7:5C:1077:ASN:HA	7:5C:1083:THR:HG22	1.81	0.62
9:7A:15:VAL:CB	9:7B:35:ILE:HD12	2.24	0.62
2:AB:212:PHE:CZ	1:AC:326:LYS:CD	2.31	0.62
2:ED:179:VAL:HG21	1:EE:258:ASN:C	2.25	0.62
1:FE:108:TYR:HA	1:FE:112:LYS:HE3	1.81	0.62
2:GD:179:VAL:CG2	1:GE:258:ASN:CA	2.78	0.62
1:GE:60:LYS:NZ	1:HE:283:HIS:CG	2.67	0.62
2:HB:100:ASN:HB2	1:HC:257:THR:HG21	1.81	0.62
2:HF:178:THR:HB	2:HF:181:GLU:HG3	1.81	0.62
2:JD:178:THR:HB	2:JD:181:GLU:HG3	1.81	0.62
1:JE:88:HIS:CE1	1:KE:280:LYS:HB3	2.35	0.62
2:KB:100:ASN:HB2	1:KC:257:THR:HG21	1.81	0.62
1:KC:108:TYR:HA	1:KC:112:LYS:HE3	1.81	0.62
2:LD:223:GLY:C	6:4B:219:ASN:CG	2.63	0.62
2:MB:177:ASP:CB	1:MC:353:VAL:HG12	2.30	0.62
2:MF:222:TYR:O	2:MF:226:ASN:ND2	2.28	0.62
4:2C:71:LYS:HE3	4:2C:72:TYR:CZ	2.35	0.62
6:4D:289:LYS:HA	6:4D:289:LYS:CE	2.25	0.62
7:5B:1376:GLN:HA	7:5B:1379:LYS:HD2	1.80	0.62
7:5C:1077:ASN:HA	7:5C:1083:THR:HG21	1.81	0.62
8:6B:177:TYR:CE1	8:6B:199:ILE:HD13	2.34	0.62
9:7C:18:VAL:HG12	9:7C:42:LEU:HD23	1.75	0.62
2:BB:87:PRO:HD2	2:CB:281:TYR:CE2	2.35	0.62
2:CB:86:ARG:HB2	2:DB:281:TYR:HE1	1.64	0.62
2:DD:100:ASN:HB2	1:DE:257:THR:HG21	1.82	0.62
2:ED:178:THR:HB	2:ED:181:GLU:HG3	1.81	0.62
1:EE:71:GLU:CD	2:EF:247:ASN:ND2	2.58	0.62
1:FA:207:GLU:CD	7:5C:915:PHE:CD2	2.78	0.62
2:FD:178:THR:HB	2:FD:181:GLU:HG3	1.81	0.62
2:FF:178:THR:HB	2:FF:181:GLU:HG3	1.81	0.62
1:IA:402:ARG:HH21	7:5C:1417:GLN:HG3	1.28	0.62
2:ID:222:TYR:O	2:ID:226:ASN:ND2	2.27	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JA:108:TYR:HA	1:JA:112:LYS:HE3	1.81	0.62
1:KC:85:GLN:HG2	1:LC:283:HIS:HD2	1.65	0.62
2:KD:179:VAL:CG2	1:KE:258:ASN:CA	2.78	0.62
2:LB:306:ARG:HH21	4:2C:149:ILE:HG22	1.60	0.62
4:2A:71:LYS:HE3	4:2A:72:TYR:CZ	2.35	0.62
4:2B:71:LYS:HE3	4:2B:72:TYR:CZ	2.35	0.62
7:5A:1077:ASN:HA	7:5A:1083:THR:HG22	1.81	0.62
7:5A:1376:GLN:HA	7:5A:1379:LYS:HD2	1.80	0.62
7:5B:1113:ILE:HG12	7:5B:1157:THR:HG23	1.82	0.62
7:5C:839:GLU:CD	8:6C:109:ILE:N	2.29	0.62
8:6A:177:TYR:CE1	8:6A:199:ILE:HD13	2.34	0.62
8:6C:177:TYR:CE1	8:6C:199:ILE:HD13	2.34	0.62
2:AB:177:ASP:OD2	1:AC:248:LEU:HD23	1.97	0.61
2:AD:208:TYR:OH	1:AE:325:PRO:HB2	1.99	0.61
2:AD:356:ILE:HG23	6:4C:152:PHE:CE1	2.35	0.61
1:AE:404:PHE:HE2	2:AF:345:ILE:HD12	1.65	0.61
2:BB:222:TYR:CD2	1:BC:247:ALA:HB1	2.35	0.61
2:CB:212:PHE:CE2	1:CC:326:LYS:HD3	2.18	0.61
1:DA:402:ARG:CD	7:5C:777:ALA:CB	2.75	0.61
13:ED:502:GDP:C8	1:EE:248:LEU:CD1	2.83	0.61
1:FE:422:ARG:CZ	7:5B:1170:THR:C	2.71	0.61
1:GC:108:TYR:HA	1:GC:112:LYS:HE3	1.81	0.61
2:GD:177:ASP:OD2	1:GE:248:LEU:HD23	1.98	0.61
1:GE:108:TYR:HA	1:GE:112:LYS:HE3	1.81	0.61
2:HD:177:ASP:OD2	1:HE:248:LEU:HD23	1.98	0.61
2:JF:86:ARG:NH2	2:KF:280:GLN:CG	2.60	0.61
1:KA:288:VAL:HG11	1:KA:327:ASP:HB3	1.79	0.61
1:KE:288:VAL:HG11	1:KE:327:ASP:HB3	1.79	0.61
1:LC:35:GLN:NE2	6:4A:101:ARG:HB2	2.15	0.61
2:LD:228:LEU:CD2	6:4B:225:PRO:HG2	2.30	0.61
1:MC:279:GLU:OE2	6:4A:106:ALA:CB	2.47	0.61
1:ME:71:GLU:CD	2:MF:247:ASN:ND2	2.57	0.61
7:5A:1521:PHE:CZ	7:5A:1570:ALA:HB3	2.34	0.61
7:5B:1268:LEU:HD21	9:7D:19:LEU:HD13	1.82	0.61
7:5B:1487:ASN:OD1	7:5B:1568:LYS:HG3	1.99	0.61
7:5C:1521:PHE:CZ	7:5C:1570:ALA:HB3	2.34	0.61
9:7C:12:GLU:CA	9:7C:16:THR:OG1	2.46	0.61
2:AD:100:ASN:HB2	1:AE:257:THR:HG21	1.81	0.61
2:CB:86:ARG:HA	2:DB:281:TYR:OH	1.96	0.61
2:DB:178:THR:HB	2:DB:181:GLU:HG3	1.81	0.61
2:DF:85:PHE:O	2:EF:281:TYR:CZ	2.52	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FC:108:TYR:HA	1:FC:112:LYS:HE3	1.81	0.61
1:FE:100:ALA:HB1	2:FF:252:LYS:HA	1.81	0.61
2:HD:178:THR:HB	2:HD:181:GLU:HG3	1.81	0.61
2:HD:208:TYR:OH	1:HE:325:PRO:HB2	1.99	0.61
2:ID:179:VAL:CG2	1:IE:258:ASN:CA	2.78	0.61
2:ID:208:TYR:OH	1:IE:325:PRO:HB2	1.99	0.61
1:IE:288:VAL:HG11	1:IE:327:ASP:HB3	1.79	0.61
1:KC:85:GLN:HG2	1:LC:283:HIS:CD2	2.34	0.61
1:KC:101:ASN:HD21	2:KD:252:LYS:HD2	0.79	0.61
1:KC:288:VAL:HG11	1:KC:327:ASP:HB3	1.80	0.61
1:KE:108:TYR:HA	1:KE:112:LYS:HE3	1.81	0.61
1:LA:108:TYR:HA	1:LA:112:LYS:HE3	1.81	0.61
1:LC:60:LYS:HD3	1:MC:283:HIS:CA	2.29	0.61
1:MC:108:TYR:HA	1:MC:112:LYS:HE3	1.81	0.61
6:4A:215:LYS:O	6:4A:215:LYS:HG3	2.01	0.61
6:4B:215:LYS:O	6:4B:215:LYS:HG3	2.01	0.61
6:4C:215:LYS:HG3	6:4C:215:LYS:O	2.01	0.61
7:5B:1521:PHE:CZ	7:5B:1570:ALA:HB3	2.34	0.61
7:5B:1572:LEU:CD1	7:5B:1576:ILE:HD11	2.29	0.61
7:5C:1113:ILE:HG12	7:5C:1157:THR:HG23	1.82	0.61
7:5C:1572:LEU:CD1	7:5C:1576:ILE:HD11	2.29	0.61
9:7E:18:VAL:HG12	9:7E:42:LEU:HD23	1.75	0.61
2:BD:179:VAL:CG2	1:BE:258:ASN:CA	2.78	0.61
1:DC:404:PHE:HE2	2:DD:345:ILE:HD12	1.65	0.61
1:DE:404:PHE:HE2	2:DF:345:ILE:HD12	1.65	0.61
1:FA:108:TYR:HA	1:FA:112:LYS:HE3	1.81	0.61
2:FD:331:LEU:HD21	7:5A:915:PHE:CE1	2.35	0.61
1:GA:105:ARG:NH1	2:GB:251:ARG:HD3	2.16	0.61
1:GA:108:TYR:HA	1:GA:112:LYS:HE3	1.81	0.61
1:IA:288:VAL:HG11	1:IA:327:ASP:HB3	1.79	0.61
1:IC:288:VAL:HG11	1:IC:327:ASP:HB3	1.80	0.61
2:JB:178:THR:HB	2:JB:181:GLU:HG3	1.81	0.61
2:KD:87:PRO:CD	2:LD:282:ARG:HG3	2.25	0.61
2:KD:100:ASN:HB2	1:KE:257:THR:HG21	1.81	0.61
2:KD:208:TYR:OH	1:KE:325:PRO:HB2	1.99	0.61
1:LC:108:TYR:HA	1:LC:112:LYS:HE3	1.81	0.61
2:LD:178:THR:HB	2:LD:181:GLU:HG3	1.81	0.61
1:MA:108:TYR:HA	1:MA:112:LYS:HE3	1.81	0.61
2:MB:390:ARG:CD	1:MC:439:THR:HG21	2.30	0.61
1:ME:108:TYR:HA	1:ME:112:LYS:HE3	1.81	0.61
6:4D:215:LYS:HG3	6:4D:215:LYS:O	2.01	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1113:ILE:HG12	7:5A:1157:THR:HG23	1.82	0.61
7:5A:1572:LEU:CD1	7:5A:1576:ILE:HD11	2.29	0.61
7:5C:835:GLN:HE21	7:5C:835:GLN:CA	2.13	0.61
7:5C:1267:CYS:SG	9:7E:8:ARG:CZ	2.87	0.61
7:5C:1376:GLN:HA	7:5C:1379:LYS:HD2	1.80	0.61
1:AA:105:ARG:NH1	2:AB:251:ARG:HD3	2.16	0.61
2:AB:212:PHE:CE2	1:AC:326:LYS:HD3	2.22	0.61
2:BB:100:ASN:HB2	1:BC:257:THR:HG21	1.82	0.61
13:DD:501:GDP:C8	1:DE:248:LEU:CD1	2.83	0.61
1:EA:108:TYR:HA	1:EA:112:LYS:HE3	1.81	0.61
1:EC:108:TYR:HA	1:EC:112:LYS:HE3	1.81	0.61
1:EE:224:TYR:HE2	2:EF:246:LEU:HD11	1.65	0.61
2:EF:178:THR:HB	2:EF:181:GLU:HG3	1.81	0.61
1:FE:222:PRO:HG2	2:FF:324:LYS:HD3	1.82	0.61
2:HB:178:THR:HB	2:HB:181:GLU:HG3	1.81	0.61
2:IF:87:PRO:HD2	2:JF:281:TYR:CZ	2.35	0.61
1:JE:404:PHE:HE2	2:JF:345:ILE:HD12	1.65	0.61
2:KB:276:ARG:NH2	6:4A:271:GLU:C	2.46	0.61
2:KF:117:LEU:HD21	4:2B:144:ASN:OD1	2.00	0.61
2:LB:228:LEU:CD2	6:4A:225:PRO:CG	2.78	0.61
7:5B:1077:ASN:HA	7:5B:1083:THR:HG22	1.81	0.61
2:AF:362:LYS:HG2	6:4A:146:ILE:CB	2.21	0.61
2:BD:397:TRP:CB	1:BE:256:GLN:HE22	2.11	0.61
1:BE:222:PRO:HD2	2:BF:324:LYS:HD3	1.81	0.61
1:DC:400:ALA:HA	7:5A:775:PRO:HB3	1.80	0.61
1:FA:222:PRO:HD2	2:FB:324:LYS:HD3	1.83	0.61
1:FC:404:PHE:CE2	2:FD:345:ILE:CD1	2.82	0.61
2:FD:55:THR:CB	2:GD:283:ALA:HA	2.30	0.61
1:GC:56:THR:O	1:HC:285:GLN:CA	2.48	0.61
2:HB:177:ASP:OD1	1:HC:353:VAL:HG12	1.84	0.61
1:HC:222:PRO:CD	2:HD:324:LYS:HD3	2.31	0.61
2:HD:220:PRO:O	1:HE:324:VAL:HG13	1.98	0.61
2:HF:261:PRO:HB2	5:3A:337:ARG:HH21	0.85	0.61
2:JD:73:MET:HA	2:JD:76:VAL:HG12	1.83	0.61
2:KF:73:MET:HA	2:KF:76:VAL:HG12	1.83	0.61
2:KF:276:ARG:CZ	6:4D:271:GLU:O	2.49	0.61
1:LA:224:TYR:CE2	2:LB:246:LEU:HD11	2.33	0.61
2:LB:178:THR:HB	2:LB:181:GLU:HG3	1.81	0.61
1:LC:60:LYS:CD	1:MC:283:HIS:CG	2.83	0.61
2:LD:227:HIS:HD1	6:4B:226:ILE:HG13	1.65	0.61
1:LE:108:TYR:HA	1:LE:112:LYS:HE3	1.81	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MD:177:ASP:CB	1:ME:353:VAL:HG12	2.29	0.61
2:MF:221:THR:HB	6:4D:189:ARG:NH1	2.15	0.61
7:5A:835:GLN:HE21	7:5A:835:GLN:CA	2.13	0.61
7:5B:1367:LYS:HB2	7:5B:1367:LYS:HZ1	1.62	0.61
1:AA:108:TYR:HA	1:AA:112:LYS:HE3	1.81	0.61
2:AF:178:THR:HB	2:AF:181:GLU:HG3	1.81	0.61
2:BF:309:ARG:NH2	2:BF:426:GLN:O	2.32	0.61
1:CA:176:GLN:O	2:CB:347:ASN:ND2	2.32	0.61
1:DA:108:TYR:HA	1:DA:112:LYS:HE3	1.81	0.61
1:EE:108:TYR:HA	1:EE:112:LYS:HE3	1.81	0.61
1:FC:402:ARG:HD3	7:5A:1259:TYR:HB2	1.82	0.61
2:GB:54:ALA:CB	2:HB:281:TYR:O	2.48	0.61
1:GE:404:PHE:HE2	2:GF:345:ILE:HD12	1.65	0.61
1:HA:105:ARG:NH1	2:HB:251:ARG:HD3	2.16	0.61
1:HC:282:TYR:CD1	10:8T:15:UNK:HA	2.35	0.61
1:HE:278:ALA:CB	10:8U:22:UNK:CB	2.78	0.61
1:IC:222:PRO:CD	2:ID:324:LYS:HD3	2.31	0.61
2:JB:86:ARG:CD	2:KB:281:TYR:CD2	2.43	0.61
2:JD:100:ASN:HB2	1:JE:257:THR:HG21	1.81	0.61
1:KA:105:ARG:NH1	2:KB:251:ARG:HD3	2.16	0.61
1:KA:359:PRO:CB	6:4C:299:TYR:CE2	2.71	0.61
1:KC:88:HIS:CB	1:LC:284:GLU:HB2	2.29	0.61
1:MA:71:GLU:CD	2:MB:247:ASN:ND2	2.57	0.61
2:MF:73:MET:HA	2:MF:76:VAL:HG12	1.83	0.61
6:4B:289:LYS:HA	6:4B:289:LYS:CE	2.25	0.61
7:5B:835:GLN:HE21	7:5B:835:GLN:CA	2.13	0.61
7:5B:1272:ILE:CD1	9:7D:11:TYR:HD2	2.13	0.61
2:AB:177:ASP:O	1:AC:352:LYS:CD	2.35	0.61
1:AC:108:TYR:HA	1:AC:112:LYS:HE3	1.81	0.61
2:AD:73:MET:HA	2:AD:76:VAL:HG12	1.83	0.61
2:AD:177:ASP:O	1:AE:352:LYS:CD	2.34	0.61
2:AD:179:VAL:HG21	1:AE:258:ASN:C	2.25	0.61
2:AF:73:MET:HA	2:AF:76:VAL:HG12	1.83	0.61
2:BD:309:ARG:NH2	2:BD:426:GLN:O	2.32	0.61
1:BE:108:TYR:HA	1:BE:112:LYS:HE3	1.81	0.61
1:CA:108:TYR:HA	1:CA:112:LYS:HE3	1.81	0.61
2:DB:100:ASN:HB2	1:DC:257:THR:HG21	1.83	0.61
2:DB:220:PRO:CD	1:DC:326:LYS:HG2	2.30	0.61
2:HD:100:ASN:HB2	1:HE:257:THR:HG21	1.81	0.61
2:JB:73:MET:HA	2:JB:76:VAL:HG12	1.83	0.61
1:JC:222:PRO:CD	2:JD:324:LYS:HD3	2.31	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:128:ASN:HA	1:KE:285:GLN:HE22	1.66	0.61
2:JF:73:MET:HA	2:JF:76:VAL:HG12	1.83	0.61
2:KD:73:MET:HA	2:KD:76:VAL:HG12	1.83	0.61
2:KD:126:GLY:O	4:2A:39:ALA:HB2	2.00	0.61
1:ME:105:ARG:NH1	2:MF:251:ARG:HD3	2.15	0.61
7:5A:1367:LYS:HB2	7:5A:1367:LYS:HZ1	1.62	0.61
7:5A:1411:LYS:HD3	7:5A:1411:LYS:O	2.00	0.61
7:5A:1490:LYS:HG3	7:5A:1494:LEU:CG	2.30	0.61
7:5B:1411:LYS:HD3	7:5B:1411:LYS:O	2.00	0.61
7:5B:1490:LYS:HG3	7:5B:1494:LEU:CG	2.31	0.61
7:5C:1490:LYS:HG3	7:5C:1494:LEU:CG	2.30	0.61
2:AB:73:MET:HA	2:AB:76:VAL:HG12	1.83	0.61
2:AB:178:THR:HB	2:AB:181:GLU:HG3	1.81	0.61
2:AD:178:THR:HB	2:AD:181:GLU:HG3	1.81	0.61
1:BA:108:TYR:HA	1:BA:112:LYS:HE3	1.81	0.61
1:BC:108:TYR:HA	1:BC:112:LYS:HE3	1.81	0.61
1:CC:108:TYR:HA	1:CC:112:LYS:HE3	1.81	0.61
2:DB:222:TYR:O	2:DB:226:ASN:ND2	2.28	0.61
1:DC:108:TYR:HA	1:DC:112:LYS:HE3	1.81	0.61
1:DC:401:LYS:CE	2:DD:344:TRP:CZ3	2.73	0.61
2:DF:86:ARG:CB	2:EF:281:TYR:CE1	2.83	0.61
2:ED:125:GLU:HG2	7:5A:903:PHE:HD2	1.58	0.61
1:EE:11:GLN:NE2	2:EF:247:ASN:OD1	2.34	0.61
1:GC:222:PRO:CD	2:GD:324:LYS:HD3	2.31	0.61
2:IB:177:ASP:OD1	1:IC:353:VAL:HG12	1.84	0.61
2:IF:222:TYR:O	2:IF:226:ASN:ND2	2.28	0.61
2:JD:220:PRO:O	1:JE:324:VAL:HG13	1.98	0.61
2:LB:73:MET:HA	2:LB:76:VAL:HG12	1.83	0.61
4:2A:164:ARG:HH11	4:2A:164:ARG:CG	2.14	0.61
6:4D:131:VAL:O	6:4D:131:VAL:HG13	2.01	0.61
7:5A:1548:VAL:HB	7:5A:1566:GLU:O	2.01	0.61
7:5C:1411:LYS:HD3	7:5C:1411:LYS:O	2.00	0.61
7:5C:1548:VAL:HB	7:5C:1566:GLU:O	2.01	0.61
9:7A:10:TYR:OH	9:7B:34:PRO:HB3	2.01	0.61
2:AB:222:TYR:O	2:AB:226:ASN:ND2	2.27	0.61
2:AD:177:ASP:OD2	1:AE:248:LEU:HD23	1.98	0.61
1:AE:108:TYR:HA	1:AE:112:LYS:HE3	1.81	0.61
1:CE:108:TYR:HA	1:CE:112:LYS:HE3	1.81	0.61
2:EF:54:ALA:C	2:FF:283:ALA:HB2	2.26	0.61
2:HD:179:VAL:CG2	1:HE:258:ASN:CA	2.78	0.61
1:IC:402:ARG:NH2	7:5A:1417:GLN:CB	2.64	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KB:73:MET:HA	2:KB:76:VAL:HG12	1.83	0.61
1:KE:85:GLN:NE2	1:LE:282:TYR:HB2	2.13	0.61
2:KF:82:GLY:O	2:LF:281:TYR:HE1	1.84	0.61
2:LB:228:LEU:HD21	6:4A:225:PRO:HB2	1.82	0.61
2:LB:331:LEU:HD22	4:2C:42:PHE:CZ	1.10	0.61
2:LF:224:ASP:CG	6:4D:219:ASN:ND2	2.54	0.61
6:4A:131:VAL:O	6:4A:131:VAL:HG13	2.00	0.61
6:4B:131:VAL:O	6:4B:131:VAL:HG13	2.00	0.61
6:4C:131:VAL:O	6:4C:131:VAL:HG13	2.00	0.61
6:4D:101:ARG:HG3	6:4D:101:ARG:NH2	2.15	0.61
7:5B:1548:VAL:HB	7:5B:1566:GLU:O	2.01	0.61
7:5B:1577:LYS:HA	7:5B:1577:LYS:HE3	1.81	0.61
7:5C:1367:LYS:HB2	7:5C:1367:LYS:HZ1	1.62	0.61
2:BB:309:ARG:NH2	2:BB:426:GLN:O	2.32	0.61
1:DE:108:TYR:HA	1:DE:112:LYS:HE3	1.81	0.61
1:EA:426:ALA:HB1	7:5C:833:PHE:HB2	1.83	0.61
1:FA:89:PRO:HD3	1:GA:280:LYS:HZ3	1.66	0.61
2:FB:401:GLU:N	7:5C:1293:VAL:HG21	2.16	0.61
1:FC:11:GLN:NE2	2:FD:247:ASN:OD1	2.34	0.61
2:FD:390:ARG:CD	1:FE:439:THR:HG21	2.31	0.61
1:FE:404:PHE:CE2	2:FF:345:ILE:CD1	2.83	0.61
2:GB:55:THR:HG1	2:HB:282:ARG:C	2.02	0.61
2:GD:73:MET:HA	2:GD:76:VAL:HG12	1.83	0.61
2:GD:409:THR:O	7:5A:1330:ILE:HD13	2.00	0.61
2:GF:73:MET:HA	2:GF:76:VAL:HG12	1.83	0.61
2:HB:73:MET:HA	2:HB:76:VAL:HG12	1.83	0.61
2:HB:212:PHE:CE2	1:HC:326:LYS:HD3	2.22	0.61
2:HD:73:MET:HA	2:HD:76:VAL:HG12	1.83	0.61
1:IA:105:ARG:NH1	2:IB:251:ARG:HD3	2.16	0.61
2:IF:73:MET:HA	2:IF:76:VAL:HG12	1.83	0.61
2:JD:179:VAL:CG2	1:JE:258:ASN:CA	2.78	0.61
2:JF:309:ARG:NH2	2:JF:426:GLN:O	2.32	0.61
2:KF:125:GLU:CD	2:LF:336:LYS:HZ3	2.09	0.61
2:LB:331:LEU:CD1	4:2C:42:PHE:HE1	2.09	0.61
2:LD:340:TYR:HB2	4:2A:147:PHE:HB2	1.81	0.61
2:LF:55:THR:HG21	2:MF:284:LEU:N	2.13	0.61
2:MB:73:MET:HA	2:MB:76:VAL:HG12	1.83	0.61
2:MD:73:MET:HA	2:MD:76:VAL:HG12	1.83	0.61
4:2B:164:ARG:HH11	4:2B:164:ARG:CG	2.14	0.61
4:2C:164:ARG:HB2	4:2C:164:ARG:CZ	2.31	0.61
4:2C:164:ARG:HH11	4:2C:164:ARG:CG	2.14	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1412:LYS:HD3	7:5A:1412:LYS:C	2.26	0.61
7:5C:1412:LYS:HD3	7:5C:1412:LYS:C	2.26	0.61
9:7C:10:TYR:OH	9:7D:34:PRO:HB3	2.01	0.61
9:7C:14:SER:C	9:7D:35:ILE:CD1	2.66	0.61
2:BB:177:ASP:OD2	1:BC:248:LEU:HD23	1.98	0.60
1:EA:100:ALA:HB1	2:EB:252:LYS:HA	1.83	0.60
1:EE:393:HIS:ND1	7:5B:814:LYS:HG2	2.16	0.60
1:EE:426:ALA:CB	7:5B:833:PHE:CB	2.79	0.60
2:FD:177:ASP:OD2	1:FE:248:LEU:HD23	1.99	0.60
2:HF:73:MET:HA	2:HF:76:VAL:HG12	1.83	0.60
2:IB:73:MET:HA	2:IB:76:VAL:HG12	1.83	0.60
2:ID:73:MET:HA	2:ID:76:VAL:HG12	1.83	0.60
1:KC:222:PRO:CD	2:KD:324:LYS:HD3	2.31	0.60
2:KD:220:PRO:O	1:KE:324:VAL:HG13	1.98	0.60
1:LC:47:ASP:OD1	6:4A:203:LYS:NZ	2.32	0.60
2:LD:73:MET:HA	2:LD:76:VAL:HG12	1.83	0.60
2:LD:212:PHE:HZ	1:LE:326:LYS:CG	2.10	0.60
4:2A:164:ARG:HB2	4:2A:164:ARG:CZ	2.31	0.60
4:2B:164:ARG:HB2	4:2B:164:ARG:CZ	2.31	0.60
7:5A:1577:LYS:HA	7:5A:1577:LYS:HE3	1.81	0.60
7:5B:1412:LYS:HD3	7:5B:1412:LYS:C	2.26	0.60
9:7A:18:VAL:HG12	9:7A:42:LEU:HD23	1.75	0.60
1:AC:222:PRO:CD	2:AD:324:LYS:HD3	2.31	0.60
2:BF:73:MET:HA	2:BF:76:VAL:HG12	1.83	0.60
1:DC:402:ARG:HE	7:5A:777:ALA:HB2	1.52	0.60
1:EE:430:LYS:NZ	7:5B:834:ASN:HD22	0.48	0.60
2:FD:73:MET:HA	2:FD:76:VAL:HG12	1.83	0.60
2:FD:391:ARG:O	1:FE:262:TYR:OH	2.18	0.60
2:GB:73:MET:HA	2:GB:76:VAL:HG12	1.83	0.60
2:ID:220:PRO:O	1:IE:324:VAL:HG13	1.98	0.60
1:IE:404:PHE:HE2	2:IF:345:ILE:HD12	1.65	0.60
1:JA:292:THR:HG21	1:JA:331:SER:HB3	1.83	0.60
2:KF:83:GLN:HA	2:LF:281:TYR:CD1	2.37	0.60
2:LF:73:MET:HA	2:LF:76:VAL:HG12	1.83	0.60
2:MD:179:VAL:HG21	1:ME:258:ASN:C	2.25	0.60
6:4A:260:ARG:NH2	6:4A:295:LYS:HE2	2.16	0.60
6:4A:289:LYS:HA	6:4A:289:LYS:CE	2.25	0.60
7:5A:841:VAL:HG23	8:6A:11:PRO:CG	2.31	0.60
7:5C:1548:VAL:CA	7:5C:1569:GLU:CG	2.78	0.60
7:5C:1552:LYS:HD2	7:5C:1566:GLU:OE1	2.01	0.60
2:CF:73:MET:HA	2:CF:76:VAL:HG12	1.83	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:101:ASN:HD21	2:DB:252:LYS:HD2	0.78	0.60
2:DD:73:MET:HA	2:DD:76:VAL:HG12	1.83	0.60
2:DD:177:ASP:C	1:DE:352:LYS:HA	2.25	0.60
1:DE:224:TYR:HE2	2:DF:246:LEU:HD11	1.67	0.60
2:EB:86:ARG:CA	2:FB:281:TYR:CE1	2.83	0.60
2:FB:397:TRP:CB	1:FC:256:GLN:HE22	2.12	0.60
2:FF:73:MET:HA	2:FF:76:VAL:HG12	1.83	0.60
2:IB:424:GLN:NE2	7:5C:1413:GLN:HE21	0.36	0.60
1:IC:58:ALA:HB3	10:8Z:13:UNK:HA	0.64	0.60
1:IC:431:ASP:OD2	5:3C:61:SER:O	2.18	0.60
1:JC:292:THR:HG21	1:JC:331:SER:HB3	1.83	0.60
2:MD:179:VAL:CG2	1:ME:258:ASN:CA	2.79	0.60
4:2A:16:GLN:O	4:2A:19:MET:N	2.35	0.60
4:2B:16:GLN:O	4:2B:19:MET:N	2.35	0.60
5:3C:21:PHE:CD2	5:3C:24:MET:CE	2.84	0.60
6:4C:260:ARG:NH2	6:4C:295:LYS:HE2	2.16	0.60
7:5A:872:GLU:OE1	8:6A:90:ARG:NH1	2.34	0.60
7:5C:1577:LYS:HA	7:5C:1577:LYS:HE3	1.81	0.60
1:CA:104:ALA:HB2	1:CA:413:MET:HE2	1.84	0.60
1:CC:104:ALA:HB2	1:CC:413:MET:HE2	1.84	0.60
1:CC:176:GLN:O	2:CD:347:ASN:ND2	2.33	0.60
1:CC:282:TYR:HE2	10:8E:18:UNK:CA	2.13	0.60
2:EF:73:MET:HA	2:EF:76:VAL:HG12	1.83	0.60
2:FB:73:MET:HA	2:FB:76:VAL:HG12	1.83	0.60
2:FB:177:ASP:OD2	1:FC:248:LEU:HD23	2.00	0.60
1:FE:105:ARG:NH1	2:FF:251:ARG:HD3	2.17	0.60
1:GC:409:VAL:CG2	5:3C:383:GLU:OE1	2.47	0.60
1:GE:404:PHE:CE2	2:GF:345:ILE:CD1	2.84	0.60
2:ID:397:TRP:CD2	1:IE:256:GLN:O	2.31	0.60
2:JD:212:PHE:CZ	1:JE:326:LYS:CD	2.34	0.60
2:JD:309:ARG:NH2	2:JD:426:GLN:O	2.32	0.60
1:JE:104:ALA:HB2	1:JE:413:MET:HE2	1.84	0.60
1:JE:292:THR:HG21	1:JE:331:SER:HB3	1.83	0.60
2:KD:177:ASP:OD1	1:KE:353:VAL:HG12	1.84	0.60
2:KD:179:VAL:HG21	1:KE:258:ASN:C	2.25	0.60
1:LA:104:ALA:HB2	1:LA:413:MET:HE2	1.84	0.60
2:LB:212:PHE:CZ	1:LC:326:LYS:CE	2.82	0.60
1:MA:104:ALA:HB2	1:MA:413:MET:HE2	1.84	0.60
1:MA:401:LYS:HE3	2:MB:344:TRP:CZ3	2.36	0.60
1:MC:100:ALA:HB1	2:MD:252:LYS:CA	2.31	0.60
1:MC:104:ALA:HB2	1:MC:413:MET:HE2	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ME:104:ALA:HB2	1:ME:413:MET:HE2	1.84	0.60
4:2C:16:GLN:O	4:2C:19:MET:N	2.35	0.60
6:4B:260:ARG:NH2	6:4B:295:LYS:HE2	2.16	0.60
7:5A:1552:LYS:HD2	7:5A:1566:GLU:OE1	2.01	0.60
7:5C:839:GLU:CD	8:6C:109:ILE:HG13	2.27	0.60
9:7C:7:LEU:CD2	9:7D:27:GLY:O	2.37	0.60
1:AE:104:ALA:HB2	1:AE:413:MET:HE2	1.84	0.60
1:BC:104:ALA:HB2	1:BC:413:MET:HE2	1.84	0.60
2:BD:73:MET:HA	2:BD:76:VAL:HG12	1.83	0.60
2:BD:86:ARG:CA	2:CD:281:TYR:HE1	2.15	0.60
1:BE:104:ALA:HB2	1:BE:413:MET:HE2	1.84	0.60
2:CD:73:MET:HA	2:CD:76:VAL:HG12	1.83	0.60
1:CE:104:ALA:HB2	1:CE:413:MET:HE2	1.84	0.60
2:DD:222:TYR:O	2:DD:226:ASN:ND2	2.28	0.60
2:DF:73:MET:HA	2:DF:76:VAL:HG12	1.83	0.60
2:ED:73:MET:HA	2:ED:76:VAL:HG12	1.83	0.60
2:FB:178:THR:HG23	1:FC:258:ASN:ND2	2.11	0.60
1:GC:60:LYS:CD	1:HC:283:HIS:CD2	2.85	0.60
2:HD:177:ASP:O	1:HE:352:LYS:HA	2.02	0.60
2:HD:179:VAL:HG21	1:HE:258:ASN:C	2.25	0.60
1:IA:104:ALA:HB2	1:IA:413:MET:HE2	1.84	0.60
1:IA:292:THR:HG21	1:IA:331:SER:HB3	1.83	0.60
1:IC:104:ALA:HB2	1:IC:413:MET:HE2	1.84	0.60
1:IC:292:THR:HG21	1:IC:331:SER:HB3	1.83	0.60
1:IE:404:PHE:CE2	2:IF:345:ILE:CD1	2.84	0.60
1:JC:104:ALA:HB2	1:JC:413:MET:HE2	1.84	0.60
2:JD:179:VAL:HG21	1:JE:258:ASN:C	2.25	0.60
1:JE:401:LYS:HE3	2:JF:344:TRP:CZ3	2.37	0.60
1:JE:404:PHE:CE2	2:JF:345:ILE:CD1	2.84	0.60
1:KA:85:GLN:CD	1:LA:282:TYR:HB3	2.15	0.60
1:KE:404:PHE:HE2	2:KF:345:ILE:HD12	1.65	0.60
2:LB:221:THR:HG23	6:4A:219:ASN:ND2	2.16	0.60
1:LC:222:PRO:HG2	2:LD:324:LYS:CB	2.31	0.60
1:MA:292:THR:HG21	1:MA:331:SER:HB3	1.83	0.60
2:MB:111:GLU:CG	3:1A:62:SER:HB2	2.31	0.60
6:4D:260:ARG:NH2	6:4D:295:LYS:HE2	2.16	0.60
7:5A:1548:VAL:CA	7:5A:1569:GLU:CG	2.78	0.60
7:5B:1552:LYS:HD2	7:5B:1566:GLU:OE1	2.01	0.60
9:7A:15:VAL:CG1	9:7B:35:ILE:CA	2.76	0.60
1:AC:104:ALA:HB2	1:AC:413:MET:HE2	1.84	0.60
1:AE:404:PHE:CE2	2:AF:345:ILE:CD1	2.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:73:MET:HA	2:BB:76:VAL:HG12	1.83	0.60
2:CB:73:MET:HA	2:CB:76:VAL:HG12	1.83	0.60
1:CC:282:TYR:CE2	10:8E:18:UNK:CA	2.82	0.60
2:DB:73:MET:HA	2:DB:76:VAL:HG12	1.83	0.60
2:DB:179:VAL:HG21	1:DC:258:ASN:C	2.25	0.60
2:DF:60:VAL:HG21	2:EF:281:TYR:CD1	2.35	0.60
1:FA:104:ALA:HB2	1:FA:413:MET:HE2	1.84	0.60
1:FE:60:LYS:HZ3	1:GE:283:HIS:CB	2.12	0.60
1:FE:60:LYS:HD2	1:GE:283:HIS:CD2	2.35	0.60
1:FE:104:ALA:HB2	1:FE:413:MET:HE2	1.84	0.60
2:FF:54:ALA:HB1	2:GF:281:TYR:O	2.00	0.60
2:GB:86:ARG:HH22	2:HB:281:TYR:CD2	1.04	0.60
1:HA:104:ALA:HB2	1:HA:413:MET:HE2	1.84	0.60
2:HB:177:ASP:O	1:HC:352:LYS:HA	2.02	0.60
1:HC:104:ALA:HB2	1:HC:413:MET:HE2	1.84	0.60
2:HD:261:PRO:HB2	5:3C:337:ARG:HH21	0.77	0.60
1:IE:104:ALA:HB2	1:IE:413:MET:HE2	1.84	0.60
1:IE:401:LYS:HE3	2:IF:344:TRP:CZ3	2.37	0.60
1:JA:104:ALA:HB2	1:JA:413:MET:HE2	1.84	0.60
2:JB:177:ASP:O	1:JC:352:LYS:HA	2.02	0.60
2:JD:177:ASP:O	1:JE:352:LYS:HA	2.02	0.60
1:KE:401:LYS:HE3	2:KF:344:TRP:CZ3	2.37	0.60
1:LC:104:ALA:HB2	1:LC:413:MET:HE2	1.84	0.60
1:MC:292:THR:HG21	1:MC:331:SER:HB3	1.83	0.60
2:MD:390:ARG:HD2	1:ME:439:THR:HG21	1.82	0.60
1:ME:292:THR:HG21	1:ME:331:SER:HB3	1.83	0.60
2:MF:221:THR:CG2	6:4D:189:ARG:NH1	2.65	0.60
5:3A:21:PHE:CD2	5:3A:24:MET:CE	2.84	0.60
5:3C:21:PHE:CD2	5:3C:24:MET:HE2	2.36	0.60
7:5A:1487:ASN:OD1	7:5A:1568:LYS:HG2	1.85	0.60
7:5B:1276:GLU:HG2	9:7D:7:LEU:HD13	1.82	0.60
1:CC:178:SER:OG	2:CD:347:ASN:HB3	2.01	0.60
2:EB:73:MET:HA	2:EB:76:VAL:HG12	1.83	0.60
1:FC:104:ALA:HB2	1:FC:413:MET:HE2	1.84	0.60
1:HE:104:ALA:HB2	1:HE:413:MET:HE2	1.84	0.60
1:IC:393:HIS:HB3	5:3C:308:PHE:CD2	2.37	0.60
1:IE:292:THR:HG21	1:IE:331:SER:HB3	1.83	0.60
1:JA:88:HIS:HE1	1:KA:280:LYS:HB3	1.67	0.60
2:JB:86:ARG:HH12	2:KB:280:GLN:HB3	1.67	0.60
2:KB:177:ASP:O	1:KC:352:LYS:HA	2.02	0.60
2:KD:177:ASP:O	1:KE:352:LYS:HA	2.02	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:276:ARG:NH2	6:4D:271:GLU:C	2.58	0.60
1:LE:104:ALA:HB2	1:LE:413:MET:HE2	1.84	0.60
4:2A:164:ARG:HA	4:2A:164:ARG:NE	2.17	0.60
4:2B:164:ARG:HA	4:2B:164:ARG:NE	2.17	0.60
4:2C:164:ARG:HA	4:2C:164:ARG:NE	2.17	0.60
5:3B:21:PHE:CD2	5:3B:24:MET:HE2	2.36	0.60
7:5A:1579:LYS:O	7:5A:1583:ASN:N	2.32	0.60
1:AA:104:ALA:HB2	1:AA:413:MET:HE2	1.84	0.60
2:AD:222:TYR:O	2:AD:226:ASN:ND2	2.27	0.60
2:BD:391:ARG:HG3	1:BE:346:TRP:CD1	2.36	0.60
2:HB:55:THR:HG23	2:IB:283:ALA:HA	1.83	0.60
1:IC:279:GLU:OE2	10:8W:22:UNK:HA	2.00	0.60
1:IE:282:TYR:CG	10:8X:15:UNK:HA	2.37	0.60
2:JB:309:ARG:NH2	2:JB:426:GLN:O	2.32	0.60
2:JD:87:PRO:HG2	2:KD:278:SER:HA	1.83	0.60
2:JD:88:ASP:CG	2:KD:278:SER:OG	2.45	0.60
1:KA:292:THR:HG21	1:KA:331:SER:HB3	1.83	0.60
1:KE:404:PHE:CE2	2:KF:345:ILE:CD1	2.84	0.60
2:KF:125:GLU:CB	2:LF:336:LYS:HE2	2.31	0.60
2:LB:177:ASP:CG	1:LC:353:VAL:HG11	2.12	0.60
1:LC:60:LYS:CE	6:4A:101:ARG:NH1	2.65	0.60
2:LD:397:TRP:CD2	1:LE:256:GLN:O	2.41	0.60
1:MC:282:TYR:CD1	6:4A:98:PRO:HB3	2.37	0.60
5:3A:21:PHE:CD2	5:3A:24:MET:HE2	2.36	0.60
6:4C:289:LYS:HA	6:4C:289:LYS:CE	2.25	0.60
7:5A:1404:LYS:C	7:5A:1404:LYS:HE3	2.26	0.60
7:5B:1404:LYS:C	7:5B:1404:LYS:HE3	2.26	0.60
7:5B:1548:VAL:CA	7:5B:1569:GLU:CG	2.78	0.60
7:5B:1579:LYS:O	7:5B:1583:ASN:N	2.32	0.60
7:5C:1404:LYS:C	7:5C:1404:LYS:HE3	2.26	0.60
7:5C:1579:LYS:O	7:5C:1583:ASN:N	2.32	0.60
2:AB:177:ASP:O	1:AC:352:LYS:HA	2.02	0.60
1:BA:104:ALA:HB2	1:BA:413:MET:HE2	1.84	0.60
1:DC:105:ARG:NH1	2:DD:251:ARG:HD3	2.17	0.60
2:DF:309:ARG:NH2	2:DF:426:GLN:O	2.32	0.60
1:EC:71:GLU:CD	2:ED:247:ASN:ND2	2.59	0.60
1:FA:422:ARG:CZ	7:5C:1170:THR:CA	2.79	0.60
1:FC:402:ARG:HH11	7:5A:1259:TYR:HD2	1.48	0.60
1:FE:419:SER:HB3	7:5B:1256:ARG:CG	2.29	0.60
1:HC:159:VAL:CG2	5:3C:209:ARG:NE	2.58	0.60
2:ID:87:PRO:CD	2:JD:281:TYR:CZ	2.85	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IF:56:GLY:CA	10:9A:36:UNK:HA	2.31	0.60
1:JA:105:ARG:NH1	2:JB:251:ARG:HD3	2.16	0.60
1:KC:292:THR:HG21	1:KC:331:SER:HB3	1.83	0.60
2:KD:212:PHE:CE2	1:KE:326:LYS:HD3	2.26	0.60
1:KE:292:THR:HG21	1:KE:331:SER:HB3	1.83	0.60
2:KF:126:GLY:O	4:2B:39:ALA:N	2.35	0.60
1:LA:60:LYS:CD	1:MA:283:HIS:CG	2.84	0.60
1:LC:56:THR:OG1	1:MC:284:GLU:HA	2.02	0.60
2:LD:274:THR:H	6:4B:228:LEU:HD21	1.65	0.60
3:1B:93:ILE:HD11	3:1B:104:VAL:HG21	1.84	0.60
6:4A:244:GLU:HG3	6:4A:284:LEU:CD1	2.22	0.60
2:AD:361:LEU:CD2	6:4C:144:LEU:CD1	2.69	0.60
2:CD:86:ARG:HA	2:DD:281:TYR:OH	1.98	0.60
1:DA:104:ALA:HB2	1:DA:413:MET:HE2	1.84	0.60
2:DD:397:TRP:CD2	1:DE:256:GLN:O	2.35	0.60
1:EE:426:ALA:HB1	7:5B:833:PHE:CD1	2.37	0.60
1:GA:104:ALA:HB2	1:GA:413:MET:HE2	1.84	0.60
1:GC:402:ARG:HD2	5:3C:381:ASN:CG	2.27	0.60
2:JB:87:PRO:HG2	2:KB:278:SER:HA	1.84	0.60
1:JE:90:GLU:CG	1:KE:280:LYS:HB3	2.30	0.60
2:KD:217:LEU:HD13	6:4B:263:CYS:SG	2.42	0.60
1:LA:47:ASP:OD1	6:4C:203:LYS:CE	2.50	0.60
2:LD:379:LYS:CE	4:2A:164:ARG:O	2.50	0.60
2:LD:394:PHE:CD1	1:LE:261:PRO:HA	2.37	0.60
1:LE:292:THR:HG21	1:LE:331:SER:HB3	1.83	0.60
3:1A:93:ILE:HD11	3:1A:104:VAL:HG21	1.84	0.60
5:3B:21:PHE:CD2	5:3B:24:MET:CE	2.84	0.60
6:4D:244:GLU:HG3	6:4D:284:LEU:CD1	2.22	0.60
6:4D:251:TYR:HB2	6:4D:288:TYR:CE2	2.36	0.60
9:7C:42:LEU:CD1	9:7D:39:GLY:HA3	2.32	0.60
1:AA:292:THR:HG21	1:AA:331:SER:HB3	1.83	0.59
1:AC:292:THR:HG21	1:AC:331:SER:HB3	1.83	0.59
2:AD:177:ASP:O	1:AE:352:LYS:HA	2.02	0.59
1:AE:292:THR:HG21	1:AE:331:SER:HB3	1.83	0.59
1:AE:401:LYS:HE3	2:AF:344:TRP:CZ3	2.37	0.59
1:GA:60:LYS:HD3	1:HA:283:HIS:CD2	2.36	0.59
1:GC:104:ALA:HB2	1:GC:413:MET:HE2	1.84	0.59
1:GC:402:ARG:HD2	5:3C:381:ASN:HD21	1.61	0.59
1:HE:401:LYS:HE3	2:HF:344:TRP:CZ3	2.37	0.59
1:HE:404:PHE:CE2	2:HF:345:ILE:CD1	2.84	0.59
1:KE:85:GLN:HA	1:LE:283:HIS:CD2	2.35	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:292:THR:HG21	1:LA:331:SER:HB3	1.83	0.59
1:LC:292:THR:HG21	1:LC:331:SER:HB3	1.83	0.59
2:LD:228:LEU:CD2	6:4B:225:PRO:CG	2.80	0.59
1:LE:47:ASP:OD1	6:4B:203:LYS:HE3	2.00	0.59
6:4C:251:TYR:HB2	6:4C:288:TYR:CE2	2.36	0.59
7:5A:1276:GLU:HG2	9:7B:7:LEU:HD13	1.82	0.59
7:5A:1541:ILE:HG12	7:5A:1574:ILE:HD11	1.84	0.59
7:5C:1521:PHE:CE2	7:5C:1567:PHE:CG	2.58	0.59
7:5C:1541:ILE:HG12	7:5C:1574:ILE:HD11	1.84	0.59
7:5C:1552:LYS:HD2	7:5C:1566:GLU:CD	2.27	0.59
9:7E:14:SER:CB	9:7F:34:PRO:HG3	2.30	0.59
9:7E:39:GLY:HA3	9:7F:43:LEU:CD1	2.32	0.59
2:BD:220:PRO:HD2	1:BE:326:LYS:CG	2.32	0.59
2:DB:179:VAL:CG2	1:DC:258:ASN:CA	2.80	0.59
1:DC:104:ALA:HB2	1:DC:413:MET:HE2	1.84	0.59
2:DD:309:ARG:NH2	2:DD:426:GLN:O	2.32	0.59
1:DE:105:ARG:NH1	2:DF:251:ARG:HD3	2.17	0.59
1:FA:177:VAL:CG2	7:5C:915:PHE:CZ	2.64	0.59
1:FA:422:ARG:HE	7:5C:1170:THR:C	2.10	0.59
2:FD:180:VAL:HG12	1:FE:258:ASN:OD1	2.01	0.59
1:FE:292:THR:HG21	1:FE:331:SER:HB3	1.83	0.59
2:FF:309:ARG:NH2	2:FF:426:GLN:O	2.32	0.59
1:IA:401:LYS:HE3	2:IB:344:TRP:CZ3	2.37	0.59
1:JA:176:GLN:O	2:JB:347:ASN:ND2	2.34	0.59
1:JC:89:PRO:CD	1:KC:280:LYS:HA	2.32	0.59
2:KB:273:LEU:CB	6:4A:268:LEU:HG	2.32	0.59
1:KC:84:ARG:NE	1:LC:283:HIS:CE1	2.65	0.59
1:KC:127:ASP:OD2	1:LC:334:THR:HG23	2.02	0.59
2:KD:273:LEU:CB	6:4B:268:LEU:CD2	2.73	0.59
2:LD:55:THR:CG2	2:MD:284:LEU:H	2.10	0.59
2:LF:221:THR:HG23	6:4D:219:ASN:HD22	1.65	0.59
3:1C:93:ILE:HD11	3:1C:104:VAL:HG21	1.84	0.59
6:4B:251:TYR:HB2	6:4B:288:TYR:CE2	2.36	0.59
7:5B:1541:ILE:HG12	7:5B:1574:ILE:HD11	1.84	0.59
7:5C:1552:LYS:NZ	7:5C:1563:SER:CA	2.64	0.59
2:AD:281:TYR:CE1	1:MA:88:HIS:HA	2.36	0.59
2:BD:220:PRO:HD2	1:BE:326:LYS:CE	2.32	0.59
1:DE:178:SER:OG	2:DF:347:ASN:HB3	2.01	0.59
2:DF:222:TYR:O	2:DF:226:ASN:ND2	2.28	0.59
1:EE:60:LYS:HD3	1:FE:283:HIS:HA	1.84	0.59
1:FC:292:THR:HG21	1:FC:331:SER:HB3	1.83	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HA:292:THR:HG21	1:HA:331:SER:HB3	1.83	0.59
1:IC:402:ARG:NH2	7:5A:1418:GLN:CA	2.55	0.59
1:JA:401:LYS:HE3	2:JB:344:TRP:CZ3	2.37	0.59
1:KE:85:GLN:CG	1:LE:283:HIS:HD2	2.15	0.59
1:KE:104:ALA:HB2	1:KE:413:MET:HE2	1.84	0.59
2:KF:125:GLU:CG	2:LF:336:LYS:HE2	2.26	0.59
2:LF:379:LYS:HE3	4:2B:166:ILE:CG1	2.32	0.59
6:4B:244:GLU:HG3	6:4B:284:LEU:CD1	2.22	0.59
7:5A:907:PHE:CD2	7:5A:921:HIS:CD2	2.90	0.59
7:5A:1552:LYS:NZ	7:5A:1563:SER:CA	2.64	0.59
7:5B:907:PHE:CD2	7:5B:921:HIS:CD2	2.90	0.59
7:5B:1552:LYS:NZ	7:5B:1563:SER:CA	2.64	0.59
7:5C:907:PHE:CD2	7:5C:921:HIS:CD2	2.91	0.59
9:7A:30:ARG:CZ	9:7B:3:GLN:HA	2.22	0.59
9:7C:15:VAL:CG1	9:7D:35:ILE:CA	2.76	0.59
1:DA:105:ARG:NH1	2:DB:251:ARG:HD3	2.17	0.59
1:DE:104:ALA:HB2	1:DE:413:MET:HE2	1.84	0.59
2:EF:157:GLU:CD	7:5B:935:LYS:HZ1	1.95	0.59
1:FE:11:GLN:NE2	2:FF:247:ASN:OD1	2.35	0.59
1:GC:292:THR:HG21	1:GC:331:SER:HB3	1.83	0.59
2:GD:177:ASP:O	1:GE:352:LYS:HA	2.02	0.59
2:GD:179:VAL:HG21	1:GE:258:ASN:C	2.25	0.59
1:GE:292:THR:HG21	1:GE:331:SER:HB3	1.83	0.59
1:HA:401:LYS:HE3	2:HB:344:TRP:CZ3	2.38	0.59
1:HC:292:THR:HG21	1:HC:331:SER:HB3	1.83	0.59
1:HE:282:TYR:CZ	10:8U:19:UNK:N	2.62	0.59
2:LB:215:LEU:CD1	6:4A:225:PRO:HB3	2.33	0.59
2:LB:224:ASP:CA	6:4A:219:ASN:ND2	2.61	0.59
6:4A:251:TYR:HB2	6:4A:288:TYR:CE2	2.36	0.59
6:4C:195:ASN:HA	6:4C:198:ASN:HD22	1.67	0.59
7:5A:1552:LYS:HD2	7:5A:1566:GLU:CD	2.27	0.59
7:5B:1552:LYS:HD2	7:5B:1566:GLU:CD	2.27	0.59
8:6A:146:ILE:HD12	8:6A:183:LEU:CB	2.31	0.59
8:6B:146:ILE:HD12	8:6B:183:LEU:CB	2.31	0.59
2:DB:309:ARG:NH2	2:DB:426:GLN:O	2.32	0.59
2:DD:222:TYR:CD2	1:DE:247:ALA:HB1	2.37	0.59
1:EC:100:ALA:HB1	2:ED:252:LYS:CA	2.32	0.59
1:EE:292:THR:HG21	1:EE:331:SER:HB3	1.83	0.59
2:FB:222:TYR:CE2	1:FC:325:PRO:HG2	2.38	0.59
1:FC:401:LYS:CE	2:FD:344:TRP:CZ3	2.76	0.59
2:FD:309:ARG:NH2	2:FD:426:GLN:O	2.32	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GC:105:ARG:NH1	2:GD:251:ARG:HD3	2.18	0.59
1:GE:104:ALA:HB2	1:GE:413:MET:HE2	1.84	0.59
2:HB:212:PHE:HZ	1:HC:326:LYS:CE	2.14	0.59
2:JF:86:ARG:NE	2:KF:281:TYR:CD2	2.68	0.59
1:KA:401:LYS:HE3	2:KB:344:TRP:CZ3	2.38	0.59
2:KD:87:PRO:HG2	2:LD:282:ARG:CD	2.31	0.59
2:KF:87:PRO:HG2	2:LF:282:ARG:HG2	1.83	0.59
2:LB:223:GLY:CA	6:4A:219:ASN:ND2	2.65	0.59
2:LD:296:ALA:H	4:2A:149:ILE:HA	1.67	0.59
2:MF:78:ALA:HB1	6:4D:178:HIS:CD2	2.37	0.59
6:4A:195:ASN:HA	6:4A:198:ASN:HD22	1.67	0.59
6:4D:168:PHE:HD1	6:4D:168:PHE:O	1.85	0.59
6:4D:224:ASN:OD1	6:4D:225:PRO:HD2	2.02	0.59
9:7A:14:SER:C	9:7B:35:ILE:CD1	2.66	0.59
1:DE:404:PHE:CE2	2:DF:345:ILE:CD1	2.85	0.59
1:EE:104:ALA:HB2	1:EE:413:MET:HE2	1.84	0.59
1:FA:292:THR:HG21	1:FA:331:SER:HB3	1.83	0.59
1:FA:422:ARG:NE	7:5C:1170:THR:CB	2.63	0.59
1:FE:177:VAL:CG2	7:5B:915:PHE:CZ	2.62	0.59
2:GB:177:ASP:O	1:GC:352:LYS:HA	2.02	0.59
2:GD:397:TRP:CD2	1:GE:256:GLN:O	2.31	0.59
1:GE:402:ARG:CD	5:3A:381:ASN:CG	2.74	0.59
1:HE:292:THR:HG21	1:HE:331:SER:HB3	1.83	0.59
2:ID:179:VAL:HG21	1:IE:258:ASN:C	2.25	0.59
1:KA:88:HIS:HA	1:LA:284:GLU:HB2	0.60	0.59
1:KC:104:ALA:HB2	1:KC:413:MET:HE2	1.84	0.59
2:LB:177:ASP:CB	1:LC:353:VAL:HG12	2.32	0.59
2:MB:212:PHE:HZ	1:MC:326:LYS:HD3	0.61	0.59
1:MC:401:LYS:HE3	2:MD:344:TRP:CZ3	2.37	0.59
6:4A:168:PHE:HD1	6:4A:168:PHE:O	1.85	0.59
6:4C:168:PHE:HD1	6:4C:168:PHE:O	1.85	0.59
7:5B:1543:LEU:O	7:5B:1573:ARG:CD	2.51	0.59
1:AA:401:LYS:HE3	2:AB:344:TRP:CZ3	2.37	0.59
2:AB:179:VAL:CG2	1:AC:258:ASN:CA	2.81	0.59
1:AE:284:GLU:HA	2:MB:54:ALA:HB1	1.83	0.59
2:AF:222:TYR:O	2:AF:226:ASN:ND2	2.28	0.59
2:AF:309:ARG:NH2	2:AF:426:GLN:O	2.32	0.59
1:BE:292:THR:HG21	1:BE:331:SER:HB3	1.83	0.59
1:DA:404:PHE:HE2	2:DB:345:ILE:CD1	2.16	0.59
1:EA:224:TYR:HE2	2:EB:246:LEU:HD11	1.66	0.59
1:EC:104:ALA:HB2	1:EC:413:MET:HE2	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:292:THR:HG21	1:GA:331:SER:HB3	1.83	0.59
2:GB:179:VAL:CG2	1:GC:258:ASN:CA	2.81	0.59
1:GE:409:VAL:CG1	5:3A:383:GLU:OE1	2.43	0.59
1:JC:88:HIS:CE1	1:KC:280:LYS:HB3	2.38	0.59
2:JD:212:PHE:CE2	1:JE:326:LYS:HD3	2.26	0.59
2:KB:177:ASP:OD1	1:KC:353:VAL:HG12	1.84	0.59
2:LD:221:THR:HG23	6:4B:219:ASN:ND2	2.17	0.59
1:LE:176:GLN:HE22	4:2B:42:PHE:CB	2.11	0.59
2:LF:228:LEU:HD21	6:4D:225:PRO:CG	2.33	0.59
1:MC:279:GLU:OE1	6:4A:107:MET:CG	2.50	0.59
2:MD:221:THR:CG2	6:4B:189:ARG:NH1	2.65	0.59
2:MD:390:ARG:CD	1:ME:439:THR:HG21	2.33	0.59
2:MF:79:GLY:C	6:4D:179:ARG:HD2	2.26	0.59
6:4B:168:PHE:HD1	6:4B:168:PHE:O	1.85	0.59
6:4B:195:ASN:HA	6:4B:198:ASN:HD22	1.67	0.59
7:5A:1516:ILE:HD11	7:5A:1567:PHE:CG	2.38	0.59
7:5A:1543:LEU:O	7:5A:1573:ARG:CD	2.51	0.59
7:5C:1516:ILE:HD11	7:5C:1567:PHE:CG	2.38	0.59
9:7F:18:VAL:HG11	9:7F:42:LEU:CD2	2.33	0.59
1:BC:292:THR:HG21	1:BC:331:SER:HB3	1.83	0.59
2:BD:397:TRP:CD2	1:BE:256:GLN:O	2.30	0.59
2:CD:86:ARG:N	2:DD:281:TYR:HE1	1.94	0.59
1:CE:292:THR:HG21	1:CE:331:SER:HB3	1.83	0.59
1:DC:292:THR:HG21	1:DC:331:SER:HB3	1.83	0.59
1:DE:292:THR:HG21	1:DE:331:SER:HB3	1.83	0.59
1:EA:178:SER:OG	2:EB:347:ASN:HB3	2.03	0.59
1:EC:292:THR:HG21	1:EC:331:SER:HB3	1.83	0.59
1:IC:393:HIS:NE2	5:3C:306:ASP:OD1	2.35	0.59
2:LB:274:THR:O	6:4A:228:LEU:HD21	1.99	0.59
2:LF:294:PHE:CD2	4:2B:147:PHE:CZ	2.80	0.59
2:LF:306:ARG:CZ	4:2B:149:ILE:HG22	2.32	0.59
2:LF:306:ARG:CZ	4:2B:149:ILE:HG21	2.31	0.59
2:LF:340:TYR:CB	4:2B:147:PHE:HB2	2.32	0.59
6:4D:195:ASN:HA	6:4D:198:ASN:HD22	1.67	0.59
6:4D:251:TYR:HD2	6:4D:288:TYR:CE2	2.21	0.59
7:5B:1516:ILE:HD11	7:5B:1567:PHE:CG	2.38	0.59
7:5B:1521:PHE:CE1	7:5B:1570:ALA:HB1	2.38	0.59
7:5C:1433:GLU:HA	7:5C:1433:GLU:OE1	2.02	0.59
1:AC:105:ARG:NH1	2:AD:251:ARG:HD3	2.18	0.59
1:AC:394:LYS:NZ	2:AD:347:ASN:OD1	2.36	0.59
2:CB:86:ARG:HB2	2:DB:281:TYR:CE1	2.28	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:87:PRO:HD3	2:DB:281:TYR:CE2	2.33	0.59
1:CC:292:THR:HG21	1:CC:331:SER:HB3	1.83	0.59
2:CD:220:PRO:CD	1:CE:326:LYS:HG2	2.32	0.59
2:DB:397:TRP:CD2	1:DC:256:GLN:O	2.35	0.59
13:EB:501:GDP:C8	1:EC:248:LEU:CD1	2.85	0.59
2:FB:309:ARG:NH2	2:FB:426:GLN:O	2.32	0.59
1:GE:401:LYS:CE	2:GF:344:TRP:CZ3	2.67	0.59
2:IB:177:ASP:O	1:IC:352:LYS:HA	2.02	0.59
2:ID:177:ASP:O	1:IE:352:LYS:HA	2.02	0.59
1:KC:394:LYS:NZ	2:KD:347:ASN:OD1	2.36	0.59
2:LD:55:THR:CG2	2:MD:283:ALA:C	2.69	0.59
1:LE:60:LYS:HD3	1:ME:283:HIS:HA	1.84	0.59
4:2C:12:LEU:HD21	4:2C:20:LYS:HB2	1.79	0.59
6:4A:251:TYR:HD2	6:4A:288:TYR:CE2	2.21	0.59
6:4B:224:ASN:OD1	6:4B:225:PRO:HD2	2.02	0.59
6:4B:251:TYR:HD2	6:4B:288:TYR:CE2	2.21	0.59
7:5A:1521:PHE:CE1	7:5A:1570:ALA:HB1	2.38	0.59
7:5C:1543:LEU:O	7:5C:1573:ARG:CD	2.51	0.59
2:BB:391:ARG:HG3	1:BC:346:TRP:CD1	2.37	0.59
1:CA:292:THR:HG21	1:CA:331:SER:HB3	1.83	0.59
2:DD:67:ASP:OD1	2:DD:68:LEU:N	2.36	0.59
2:DD:86:ARG:N	2:ED:281:TYR:HE1	1.99	0.59
1:EA:104:ALA:HB2	1:EA:413:MET:HE2	1.84	0.59
1:EA:292:THR:HG21	1:EA:331:SER:HB3	1.83	0.59
1:EE:426:ALA:HB1	7:5B:833:PHE:HD1	1.67	0.59
1:EE:430:LYS:NZ	7:5B:834:ASN:HD21	1.09	0.59
1:HA:176:GLN:O	2:HB:347:ASN:ND2	2.34	0.59
1:HC:105:ARG:NH1	2:HD:251:ARG:HD3	2.18	0.59
1:JC:176:GLN:O	2:JD:347:ASN:ND2	2.35	0.59
1:JC:279:GLU:OE1	10:8Z:22:UNK:CB	2.51	0.59
1:KA:104:ALA:HB2	1:KA:413:MET:HE2	1.84	0.59
2:KB:179:VAL:CG2	1:KC:258:ASN:CA	2.81	0.59
6:4C:251:TYR:HD2	6:4C:288:TYR:CE2	2.21	0.59
2:AD:67:ASP:OD1	2:AD:68:LEU:N	2.36	0.58
2:AD:224:ASP:OD1	6:4C:131:VAL:CA	2.50	0.58
1:BA:292:THR:HG21	1:BA:331:SER:HB3	1.83	0.58
1:CA:404:PHE:HE2	2:CB:345:ILE:HD12	1.68	0.58
2:CB:67:ASP:OD1	2:CB:68:LEU:N	2.36	0.58
2:CD:86:ARG:HB2	2:DD:281:TYR:HE1	1.67	0.58
2:DB:67:ASP:OD1	2:DB:68:LEU:N	2.36	0.58
13:DB:501:GDP:C8	1:DC:248:LEU:CD1	2.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DF:67:ASP:OD1	2:DF:68:LEU:N	2.37	0.58
1:EE:426:ALA:HB1	7:5B:833:PHE:HB2	1.83	0.58
2:FD:179:VAL:CG2	1:FE:258:ASN:HA	2.33	0.58
1:GE:89:PRO:HG3	1:HE:280:LYS:HD2	1.83	0.58
2:GF:416:ASN:ND2	7:5B:1327:LYS:NZ	2.51	0.58
1:HE:278:ALA:HB2	10:8U:21:UNK:CB	2.33	0.58
1:IA:282:TYR:CG	10:8V:15:UNK:CB	2.86	0.58
2:IB:179:VAL:CG2	1:IC:258:ASN:CA	2.81	0.58
2:JB:212:PHE:HZ	1:JC:326:LYS:CE	2.14	0.58
1:JC:90:GLU:C	1:KC:280:LYS:HZ2	1.77	0.58
2:KB:212:PHE:HZ	1:KC:326:LYS:CE	2.14	0.58
2:LD:228:LEU:HD21	6:4B:225:PRO:CB	2.32	0.58
4:2A:12:LEU:HD21	4:2A:20:LYS:HB2	1.79	0.58
5:3C:230:ILE:O	5:3C:332:MET:HG3	2.02	0.58
6:4A:108:LYS:O	6:4A:108:LYS:HD2	2.03	0.58
6:4B:108:LYS:O	6:4B:108:LYS:HD2	2.03	0.58
6:4C:108:LYS:O	6:4C:108:LYS:HD2	2.03	0.58
6:4D:108:LYS:O	6:4D:108:LYS:HD2	2.03	0.58
7:5A:1433:GLU:HA	7:5A:1433:GLU:OE1	2.02	0.58
7:5B:1433:GLU:HA	7:5B:1433:GLU:OE1	2.02	0.58
7:5C:836:ARG:HH11	7:5C:836:ARG:HG3	1.68	0.58
7:5C:836:ARG:HB3	7:5C:836:ARG:NH1	2.17	0.58
2:AB:67:ASP:OD1	2:AB:68:LEU:N	2.37	0.58
2:AD:309:ARG:NH2	2:AD:426:GLN:O	2.32	0.58
1:BA:401:LYS:HE3	2:BB:344:TRP:CZ3	2.38	0.58
1:DA:292:THR:HG21	1:DA:331:SER:HB3	1.83	0.58
2:ED:179:VAL:CG2	1:EE:258:ASN:CA	2.81	0.58
2:FD:428:ALA:HB1	7:5A:1080:PHE:HE1	0.87	0.58
1:GC:394:LYS:NZ	2:GD:347:ASN:OD1	2.36	0.58
1:HE:313:MET:HE3	1:HE:382:THR:HG22	1.86	0.58
1:IC:279:GLU:HG2	10:8W:22:UNK:HA	1.85	0.58
1:JE:313:MET:HE3	1:JE:382:THR:HG22	1.86	0.58
2:KB:276:ARG:CZ	6:4A:265:TYR:HB2	2.33	0.58
2:LB:15:GLN:NE2	6:4A:217:ASN:OD1	2.35	0.58
2:LD:224:ASP:CA	6:4B:219:ASN:ND2	2.60	0.58
6:4A:224:ASN:OD1	6:4A:225:PRO:HD2	2.02	0.58
6:4C:224:ASN:OD1	6:4C:225:PRO:HD2	2.02	0.58
6:4C:244:GLU:HG3	6:4C:284:LEU:CD1	2.22	0.58
7:5A:827:GLU:CG	7:5A:849:ARG:HH21	2.15	0.58
7:5A:836:ARG:HB3	7:5A:836:ARG:NH1	2.17	0.58
7:5A:1268:LEU:HD21	9:7B:19:LEU:HD13	1.84	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1367:LYS:HE3	7:5A:1367:LYS:CA	2.31	0.58
7:5B:907:PHE:CE2	7:5B:921:HIS:CD2	2.91	0.58
7:5C:827:GLU:CG	7:5C:849:ARG:HH21	2.15	0.58
7:5C:1367:LYS:HE3	7:5C:1367:LYS:CA	2.31	0.58
7:5C:1521:PHE:CE1	7:5C:1570:ALA:HB1	2.38	0.58
2:AD:212:PHE:CE2	1:AE:326:LYS:HD3	2.26	0.58
2:AF:55:THR:HG21	2:BF:283:ALA:HA	1.85	0.58
2:AF:67:ASP:OD1	2:AF:68:LEU:N	2.37	0.58
1:BA:404:PHE:HE2	2:BB:345:ILE:HD12	1.67	0.58
2:BD:222:TYR:CD2	1:BE:247:ALA:HB1	2.39	0.58
2:CB:222:TYR:CD2	1:CC:247:ALA:HB1	2.38	0.58
1:CE:101:ASN:ND2	2:CF:252:LYS:HG3	2.10	0.58
1:EE:426:ALA:HB3	7:5B:833:PHE:CB	2.30	0.58
1:FC:177:VAL:CG2	7:5A:915:PHE:CZ	2.64	0.58
1:FE:402:ARG:HD3	7:5B:1259:TYR:HB2	1.84	0.58
1:GC:313:MET:HE3	1:GC:382:THR:HG22	1.86	0.58
1:GE:313:MET:HE3	1:GE:382:THR:HG22	1.86	0.58
1:HC:282:TYR:CE1	10:8T:15:UNK:HA	2.38	0.58
1:IE:313:MET:HE3	1:IE:382:THR:HG22	1.86	0.58
1:KC:105:ARG:NH1	2:KD:251:ARG:HD3	2.18	0.58
1:KE:85:GLN:CA	1:LE:283:HIS:HD2	2.15	0.58
2:LB:179:VAL:HG22	1:LC:258:ASN:CB	2.34	0.58
1:MA:100:ALA:HB1	2:MB:252:LYS:CA	2.33	0.58
2:MB:111:GLU:HA	3:1A:62:SER:CA	2.32	0.58
2:MD:221:THR:HB	6:4B:189:ARG:NH1	2.19	0.58
2:MF:67:ASP:OD1	2:MF:68:LEU:N	2.36	0.58
6:4B:179:ARG:HH11	6:4B:179:ARG:CG	2.17	0.58
6:4D:179:ARG:HH11	6:4D:179:ARG:CG	2.17	0.58
7:5A:836:ARG:HH11	7:5A:836:ARG:HG3	1.68	0.58
7:5A:907:PHE:CE2	7:5A:921:HIS:CD2	2.91	0.58
7:5A:1438:LEU:O	7:5A:1438:LEU:HD12	2.03	0.58
7:5B:827:GLU:CG	7:5B:849:ARG:HH21	2.15	0.58
7:5B:1367:LYS:HE3	7:5B:1367:LYS:CA	2.31	0.58
7:5B:1548:VAL:HG12	7:5B:1566:GLU:N	2.18	0.58
7:5C:1438:LEU:HD12	7:5C:1438:LEU:O	2.03	0.58
9:7D:18:VAL:HG11	9:7D:42:LEU:CD2	2.33	0.58
1:AE:313:MET:HE3	1:AE:382:THR:HG22	1.86	0.58
2:CD:67:ASP:OD1	2:CD:68:LEU:N	2.37	0.58
1:CE:313:MET:HE3	1:CE:382:THR:HG22	1.86	0.58
2:CF:67:ASP:OD1	2:CF:68:LEU:N	2.37	0.58
1:DC:313:MET:HE3	1:DC:382:THR:HG22	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DE:313:MET:HE3	1:DE:382:THR:HG22	1.86	0.58
2:EB:83:GLN:O	2:FB:281:TYR:OH	2.22	0.58
1:FA:56:THR:O	1:GA:285:GLN:HB2	2.02	0.58
1:FA:282:TYR:CD2	10:8M:18:UNK:CB	2.76	0.58
1:GA:313:MET:HE3	1:GA:382:THR:HG22	1.86	0.58
1:HC:313:MET:HE3	1:HC:382:THR:HG22	1.86	0.58
2:IF:67:ASP:OD1	2:IF:68:LEU:N	2.37	0.58
1:JE:279:GLU:OE1	10:9A:22:UNK:CB	2.51	0.58
1:KC:313:MET:HE3	1:KC:382:THR:HG22	1.86	0.58
1:KE:62:VAL:CG2	1:LE:285:GLN:CB	2.78	0.58
1:KE:313:MET:HE3	1:KE:382:THR:HG22	1.86	0.58
2:KF:309:ARG:NH2	2:KF:426:GLN:O	2.32	0.58
2:LD:221:THR:HG22	6:4B:220:GLY:H	1.68	0.58
1:LE:60:LYS:HD3	1:ME:283:HIS:CB	2.33	0.58
1:MA:313:MET:HE3	1:MA:382:THR:HG22	1.86	0.58
1:MC:279:GLU:OE1	6:4A:107:MET:SD	2.42	0.58
7:5B:836:ARG:HB3	7:5B:836:ARG:NH1	2.17	0.58
7:5B:1119:LEU:HD13	7:5B:1135:TYR:CE1	2.38	0.58
7:5B:1438:LEU:HD12	7:5B:1438:LEU:O	2.03	0.58
7:5C:907:PHE:CE2	7:5C:921:HIS:CD2	2.91	0.58
8:6C:146:ILE:HD12	8:6C:183:LEU:CB	2.32	0.58
9:7F:41:PHE:O	9:7F:45:ARG:HG2	2.02	0.58
1:AA:101:ASN:ND2	2:AB:252:LYS:HG3	2.10	0.58
1:AA:313:MET:HE3	1:AA:382:THR:HG22	1.86	0.58
1:AC:313:MET:HE3	1:AC:382:THR:HG22	1.86	0.58
2:AF:322:SER:H	6:4A:156:PHE:HE2	1.50	0.58
2:CB:222:TYR:O	2:CB:226:ASN:ND2	2.28	0.58
2:DF:85:PHE:C	2:EF:281:TYR:CZ	2.81	0.58
1:EA:313:MET:HE3	1:EA:382:THR:HG22	1.86	0.58
2:ED:157:GLU:HA	7:5A:945:LYS:HZ3	1.68	0.58
1:EE:88:HIS:HB3	1:EE:91:GLN:HG2	1.86	0.58
1:FC:422:ARG:CZ	7:5A:1170:THR:C	2.75	0.58
2:FF:331:LEU:HD21	7:5B:915:PHE:CZ	2.39	0.58
1:GA:88:HIS:HB3	1:GA:91:GLN:HG2	1.86	0.58
1:GC:88:HIS:HB3	1:GC:91:GLN:HG2	1.86	0.58
2:GF:412:GLU:OE2	7:5B:1323:MET:CE	2.51	0.58
1:HA:313:MET:HE3	1:HA:382:THR:HG22	1.86	0.58
1:IA:278:ALA:CB	10:8V:21:UNK:CA	2.81	0.58
2:ID:67:ASP:OD1	2:ID:68:LEU:N	2.37	0.58
1:JA:313:MET:HE3	1:JA:382:THR:HG22	1.86	0.58
2:JB:67:ASP:OD1	2:JB:68:LEU:N	2.36	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JC:90:GLU:CG	1:KC:280:LYS:HD2	2.07	0.58
1:JC:313:MET:HE3	1:JC:382:THR:HG22	1.86	0.58
1:KA:313:MET:HE3	1:KA:382:THR:HG22	1.86	0.58
1:LE:313:MET:HE3	1:LE:382:THR:HG22	1.86	0.58
2:LF:294:PHE:CD2	4:2B:147:PHE:HZ	2.19	0.58
1:MC:313:MET:HE3	1:MC:382:THR:HG22	1.86	0.58
5:3A:230:ILE:O	5:3A:332:MET:HG3	2.02	0.58
6:4A:179:ARG:HH11	6:4A:179:ARG:CG	2.17	0.58
7:5A:1119:LEU:HD13	7:5A:1135:TYR:CE1	2.38	0.58
7:5A:1373:PHE:CD1	7:5A:1373:PHE:N	2.72	0.58
7:5A:1487:ASN:CG	7:5A:1568:LYS:CD	2.76	0.58
7:5A:1521:PHE:CE2	7:5A:1567:PHE:CG	2.58	0.58
7:5B:827:GLU:HA	7:5B:841:VAL:CG1	2.33	0.58
7:5B:836:ARG:HH11	7:5B:836:ARG:HG3	1.68	0.58
7:5C:1119:LEU:HD13	7:5C:1135:TYR:CE1	2.38	0.58
7:5C:1487:ASN:CG	7:5C:1568:LYS:CD	2.76	0.58
9:7D:41:PHE:O	9:7D:45:ARG:HG2	2.02	0.58
2:AB:179:VAL:HG21	1:AC:258:ASN:C	2.28	0.58
1:BA:404:PHE:CE2	2:BB:345:ILE:CD1	2.86	0.58
1:BC:222:PRO:HD2	2:BD:324:LYS:HD3	1.85	0.58
1:CA:313:MET:HE3	1:CA:382:THR:HG22	1.86	0.58
1:CC:313:MET:HE3	1:CC:382:THR:HG22	1.86	0.58
2:CD:179:VAL:HG21	1:CE:258:ASN:C	2.28	0.58
1:DA:313:MET:HE3	1:DA:382:THR:HG22	1.86	0.58
1:DC:88:HIS:HB3	1:DC:91:GLN:HG2	1.86	0.58
1:DC:404:PHE:CE2	2:DD:345:ILE:CD1	2.86	0.58
1:DE:88:HIS:HB3	1:DE:91:GLN:HG2	1.86	0.58
1:EA:398:MET:SD	2:EB:345:ILE:CG1	2.85	0.58
1:EC:313:MET:HE3	1:EC:382:THR:HG22	1.86	0.58
2:ED:220:PRO:CD	1:EE:326:LYS:HG2	2.32	0.58
2:EF:67:ASP:OD1	2:EF:68:LEU:N	2.37	0.58
1:FA:422:ARG:HE	7:5C:1170:THR:CB	2.15	0.58
2:FD:54:ALA:C	2:GD:283:ALA:CB	2.57	0.58
1:FE:313:MET:HE3	1:FE:382:THR:HG22	1.86	0.58
1:GA:401:LYS:HE3	2:GB:344:TRP:CZ3	2.38	0.58
1:GE:88:HIS:HB3	1:GE:91:GLN:HG2	1.86	0.58
1:HA:88:HIS:HB3	1:HA:91:GLN:HG2	1.86	0.58
2:HB:179:VAL:CG2	1:HC:258:ASN:CA	2.81	0.58
1:HC:394:LYS:NZ	2:HD:347:ASN:OD1	2.36	0.58
1:IC:105:ARG:NH1	2:ID:251:ARG:HD3	2.18	0.58
1:IC:313:MET:HE3	1:IC:382:THR:HG22	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IC:393:HIS:CB	5:3C:308:PHE:CE2	2.86	0.58
1:IE:88:HIS:HB3	1:IE:91:GLN:HG2	1.86	0.58
2:JB:179:VAL:CG2	1:JC:258:ASN:CA	2.81	0.58
1:JE:88:HIS:HB3	1:JE:91:GLN:HG2	1.86	0.58
2:KD:86:ARG:HG2	2:LD:288:GLU:CD	2.28	0.58
1:KE:88:HIS:HB3	1:KE:91:GLN:HG2	1.86	0.58
2:KF:215:LEU:CD2	6:4D:267:ILE:O	2.41	0.58
2:LB:221:THR:HG22	6:4A:220:GLY:H	1.69	0.58
2:MD:67:ASP:OD1	2:MD:68:LEU:N	2.37	0.58
2:MD:222:TYR:O	2:MD:226:ASN:ND2	2.28	0.58
1:ME:282:TYR:CD1	6:4B:98:PRO:HB3	2.39	0.58
4:2B:12:LEU:HD21	4:2B:20:LYS:HB2	1.79	0.58
6:4C:179:ARG:HH11	6:4C:179:ARG:CG	2.17	0.58
7:5A:1275:ILE:HG21	9:7B:11:TYR:OH	2.03	0.58
7:5B:1370:LYS:HD3	7:5B:1373:PHE:HZ	1.68	0.58
7:5B:1419:GLU:HA	7:5B:1419:GLU:OE1	2.04	0.58
7:5B:1487:ASN:CG	7:5B:1568:LYS:CD	2.77	0.58
7:5C:1515:GLU:OE1	7:5C:1563:SER:OG	2.20	0.58
2:AB:309:ARG:NH2	2:AB:426:GLN:O	2.32	0.58
1:AE:141:VAL:HG11	1:AE:172:TYR:CD1	2.38	0.58
2:AF:372:THR:HA	2:AF:422:TYR:HE2	1.69	0.58
1:BC:178:SER:OG	2:BD:347:ASN:HB3	2.03	0.58
1:DA:88:HIS:HB3	1:DA:91:GLN:HG2	1.86	0.58
1:EA:88:HIS:HB3	1:EA:91:GLN:HG2	1.86	0.58
1:EC:88:HIS:HB3	1:EC:91:GLN:HG2	1.86	0.58
2:ED:67:ASP:OD1	2:ED:68:LEU:N	2.37	0.58
1:FA:88:HIS:HB3	1:FA:91:GLN:HG2	1.86	0.58
1:FA:313:MET:HE3	1:FA:382:THR:HG22	1.86	0.58
1:FC:313:MET:HE3	1:FC:382:THR:HG22	1.86	0.58
2:GB:67:ASP:OD1	2:GB:68:LEU:N	2.37	0.58
1:HC:88:HIS:HB3	1:HC:91:GLN:HG2	1.86	0.58
2:HD:222:TYR:O	2:HD:226:ASN:ND2	2.27	0.58
1:HE:88:HIS:HB3	1:HE:91:GLN:HG2	1.86	0.58
1:IA:313:MET:HE3	1:IA:382:THR:HG22	1.86	0.58
2:IB:67:ASP:OD1	2:IB:68:LEU:N	2.37	0.58
1:IC:88:HIS:HB3	1:IC:91:GLN:HG2	1.86	0.58
1:IC:389:SER:HB2	5:3C:307:LYS:CG	2.32	0.58
1:JA:88:HIS:HB3	1:JA:91:GLN:HG2	1.86	0.58
1:JC:88:HIS:HB3	1:JC:91:GLN:HG2	1.86	0.58
1:JC:105:ARG:NH1	2:JD:251:ARG:HD3	2.18	0.58
2:JD:67:ASP:OD1	2:JD:68:LEU:N	2.37	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:88:HIS:HB3	1:KC:91:GLN:HG2	1.86	0.58
1:KC:124:LYS:HD3	1:LC:290:GLU:HA	1.84	0.58
2:KD:228:LEU:CD2	6:4B:267:ILE:HD12	2.33	0.58
1:LA:313:MET:HE3	1:LA:382:THR:HG22	1.86	0.58
1:LC:313:MET:HE3	1:LC:382:THR:HG22	1.86	0.58
2:MB:67:ASP:OD1	2:MB:68:LEU:N	2.36	0.58
7:5A:1419:GLU:HA	7:5A:1419:GLU:OE1	2.04	0.58
7:5B:1373:PHE:CD1	7:5B:1373:PHE:N	2.72	0.58
7:5C:1449:LEU:HD22	7:5C:1452:HIS:HD2	1.68	0.58
9:7B:18:VAL:HG11	9:7B:42:LEU:CD2	2.33	0.58
9:7C:30:ARG:CZ	9:7D:3:GLN:HA	2.23	0.58
9:7E:18:VAL:HG11	9:7F:35:ILE:CG2	2.34	0.58
2:AB:212:PHE:HZ	1:AC:326:LYS:HD3	0.53	0.58
2:AB:372:THR:HA	2:AB:422:TYR:HE2	1.69	0.58
1:AC:101:ASN:ND2	2:AD:252:LYS:HG3	2.09	0.58
1:AC:141:VAL:HG11	1:AC:172:TYR:CD1	2.38	0.58
2:AD:280:GLN:NE2	6:4C:139:ASP:OD1	2.35	0.58
2:AD:372:THR:HA	2:AD:422:TYR:HE2	1.69	0.58
1:BA:178:SER:OG	2:BB:347:ASN:HB3	2.03	0.58
1:BA:313:MET:HE3	1:BA:382:THR:HG22	1.86	0.58
1:BC:313:MET:HE3	1:BC:382:THR:HG22	1.86	0.58
1:CE:88:HIS:HB3	1:CE:91:GLN:HG2	1.86	0.58
2:DB:177:ASP:C	1:DC:352:LYS:HA	2.28	0.58
2:FB:54:ALA:CB	2:GB:281:TYR:O	2.52	0.58
1:FC:88:HIS:HB3	1:FC:91:GLN:HG2	1.86	0.58
1:FE:88:HIS:HB3	1:FE:91:GLN:HG2	1.86	0.58
2:FF:67:ASP:OD1	2:FF:68:LEU:N	2.37	0.58
1:GE:105:ARG:NH1	2:GF:251:ARG:HD3	2.19	0.58
1:GE:401:LYS:HE3	2:GF:344:TRP:CZ3	2.37	0.58
1:HC:176:GLN:O	2:HD:347:ASN:ND2	2.35	0.58
2:HD:212:PHE:CE2	1:HE:326:LYS:HD3	2.26	0.58
1:HE:410:GLY:CA	5:3A:329:ARG:NH2	2.67	0.58
1:IA:281:ALA:HB3	10:8V:18:UNK:CB	2.34	0.58
1:IE:393:HIS:NE2	5:3A:306:ASP:OD1	2.37	0.58
2:IF:309:ARG:NH2	2:IF:426:GLN:O	2.32	0.58
1:KA:88:HIS:HB3	1:KA:91:GLN:HG2	1.86	0.58
2:LB:100:ASN:HB2	1:LC:257:THR:HG21	1.86	0.58
1:LE:88:HIS:HB3	1:LE:91:GLN:HG2	1.86	0.58
2:MD:111:GLU:CG	3:1B:62:SER:HB2	2.33	0.58
1:ME:313:MET:HE3	1:ME:382:THR:HG22	1.86	0.58
6:4B:139:ASP:O	6:4B:142:SER:OG	2.20	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4D:139:ASP:O	6:4D:142:SER:OG	2.20	0.58
7:5A:827:GLU:HA	7:5A:841:VAL:CG1	2.33	0.58
7:5A:1515:GLU:OE1	7:5A:1563:SER:OG	2.20	0.58
7:5B:1455:LYS:O	7:5B:1455:LYS:HE2	2.02	0.58
7:5C:827:GLU:HA	7:5C:841:VAL:CG1	2.33	0.58
1:AA:88:HIS:HB3	1:AA:91:GLN:HG2	1.86	0.58
1:AC:88:HIS:HB3	1:AC:91:GLN:HG2	1.86	0.58
1:AE:88:HIS:HB3	1:AE:91:GLN:HG2	1.86	0.58
2:AF:224:ASP:OD1	6:4A:131:VAL:N	2.36	0.58
2:BD:87:PRO:CD	2:CD:281:TYR:CZ	2.84	0.58
1:BE:313:MET:HE3	1:BE:382:THR:HG22	1.86	0.58
1:CA:101:ASN:ND2	2:CB:252:LYS:HG3	2.11	0.58
2:CB:86:ARG:N	2:DB:281:TYR:HE1	1.95	0.58
2:CD:179:VAL:CG2	1:CE:258:ASN:CA	2.82	0.58
2:CD:179:VAL:CG2	1:CE:258:ASN:O	2.40	0.58
2:DB:222:TYR:CD2	1:DC:247:ALA:HB1	2.38	0.58
2:DD:60:VAL:HG21	2:ED:281:TYR:CE1	2.39	0.58
2:EB:67:ASP:OD1	2:EB:68:LEU:N	2.37	0.58
2:FB:84:LEU:O	2:GB:281:TYR:CE1	2.56	0.58
1:FC:56:THR:C	1:GC:285:GLN:HB3	2.29	0.58
1:FC:419:SER:CB	7:5A:1256:ARG:CG	2.82	0.58
2:FD:67:ASP:OD1	2:FD:68:LEU:N	2.37	0.58
2:FD:390:ARG:HD2	1:FE:439:THR:HG21	1.86	0.58
1:GA:370:LYS:CG	10:8P:18:UNK:N	2.67	0.58
2:IF:87:PRO:CD	2:JF:281:TYR:CE2	2.87	0.58
1:JC:394:LYS:NZ	2:JD:347:ASN:OD1	2.36	0.58
2:KB:118:ASP:OD1	4:2C:148:ASN:OD1	2.21	0.58
2:KB:177:ASP:HA	1:KC:353:VAL:HG12	1.86	0.58
2:KB:217:LEU:CD1	6:4A:263:CYS:SG	2.91	0.58
2:KD:77:ARG:CG	2:LD:281:TYR:OH	2.42	0.58
2:KD:309:ARG:NH2	2:KD:426:GLN:O	2.32	0.58
2:LF:55:THR:CG2	2:MF:284:LEU:N	2.67	0.58
2:MB:391:ARG:O	1:MC:262:TYR:OH	2.22	0.58
2:MB:397:TRP:CB	1:MC:256:GLN:HE22	2.13	0.58
2:MD:177:ASP:O	1:ME:352:LYS:HA	2.03	0.58
5:3B:230:ILE:O	5:3B:332:MET:HG3	2.02	0.58
6:4C:287:ASP:N	6:4C:287:ASP:OD2	2.30	0.58
7:5A:1077:ASN:CG	7:5A:1083:THR:HG21	2.29	0.58
7:5A:1370:LYS:HD3	7:5A:1373:PHE:HZ	1.68	0.58
7:5A:1449:LEU:HD22	7:5A:1452:HIS:HD2	1.68	0.58
7:5B:1406:PHE:O	7:5B:1410:ASN:N	2.31	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1543:LEU:O	7:5B:1573:ARG:HD3	2.04	0.58
7:5C:1370:LYS:HD3	7:5C:1373:PHE:HZ	1.68	0.58
7:5C:1419:GLU:HA	7:5C:1419:GLU:OE1	2.04	0.58
2:AB:177:ASP:HA	1:AC:353:VAL:HG12	1.86	0.58
2:AD:40:SER:OG	6:4C:152:PHE:CD2	2.43	0.58
2:AD:359:LYS:CA	6:4C:151:ARG:HH22	2.00	0.58
1:BE:88:HIS:HB3	1:BE:91:GLN:HG2	1.86	0.58
1:CA:88:HIS:HB3	1:CA:91:GLN:HG2	1.86	0.58
1:CC:88:HIS:HB3	1:CC:91:GLN:HG2	1.86	0.58
2:EB:212:PHE:CZ	1:EC:326:LYS:CE	2.86	0.58
1:EE:313:MET:HE3	1:EE:382:THR:HG22	1.86	0.58
2:FB:390:ARG:HD2	1:FC:439:THR:HG21	1.85	0.58
1:FC:222:PRO:HG3	2:FD:324:LYS:HD3	1.78	0.58
1:FC:423:GLU:HG3	7:5A:1256:ARG:NH2	2.19	0.58
2:FF:222:TYR:O	2:FF:226:ASN:ND2	2.28	0.58
1:HE:105:ARG:NH1	2:HF:251:ARG:HD3	2.19	0.58
2:IB:177:ASP:HA	1:IC:353:VAL:HG12	1.86	0.58
1:JE:89:PRO:HG2	1:KE:280:LYS:CG	2.30	0.58
2:JF:67:ASP:OD1	2:JF:68:LEU:N	2.37	0.58
2:KD:54:ALA:HB2	2:LD:285:THR:CG2	1.99	0.58
2:LB:294:PHE:HD2	4:2C:147:PHE:CZ	2.22	0.58
1:LC:88:HIS:HB3	1:LC:91:GLN:HG2	1.86	0.58
2:LF:372:THR:HA	2:LF:422:TYR:HE2	1.69	0.58
2:MB:220:PRO:HD2	1:MC:326:LYS:HE2	1.84	0.58
1:MC:88:HIS:HB3	1:MC:91:GLN:HG2	1.86	0.58
6:4A:139:ASP:O	6:4A:142:SER:OG	2.20	0.58
7:5A:1455:LYS:O	7:5A:1455:LYS:HE2	2.02	0.58
7:5B:1077:ASN:CG	7:5B:1083:THR:HG21	2.29	0.58
7:5C:1077:ASN:CG	7:5C:1083:THR:HG21	2.29	0.58
7:5C:1544:ILE:C	7:5C:1570:ALA:CB	2.76	0.58
1:AA:141:VAL:HG11	1:AA:172:TYR:CD1	2.38	0.57
2:AD:321:MET:HA	6:4C:156:PHE:CE2	2.39	0.57
1:AE:105:ARG:NH1	2:AF:251:ARG:HD3	2.19	0.57
2:AF:223:GLY:O	6:4A:131:VAL:CA	2.52	0.57
1:BA:88:HIS:HB3	1:BA:91:GLN:HG2	1.86	0.57
2:BB:178:THR:HA	1:BC:352:LYS:HD3	1.85	0.57
2:BB:220:PRO:CD	1:BC:326:LYS:HE2	2.32	0.57
1:BC:88:HIS:HB3	1:BC:91:GLN:HG2	1.86	0.57
2:BF:372:THR:HA	2:BF:422:TYR:HE2	1.69	0.57
1:CC:401:LYS:CE	2:CD:344:TRP:CZ3	2.71	0.57
1:DE:62:VAL:CG2	1:EE:283:HIS:O	2.47	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DF:25:SER:HG	2:DF:51:TYR:HH	1.51	0.57
1:EE:401:LYS:HE3	2:EF:344:TRP:CZ3	2.39	0.57
1:EE:423:GLU:OE2	7:5B:830:VAL:HG11	1.96	0.57
2:FB:220:PRO:O	1:FC:324:VAL:HG13	2.04	0.57
1:FE:56:THR:HA	1:GE:285:GLN:HB3	1.86	0.57
1:GA:56:THR:C	1:HA:285:GLN:HB3	2.29	0.57
2:GD:55:THR:CA	2:HD:283:ALA:CB	2.65	0.57
2:HB:372:THR:HA	2:HB:422:TYR:HE2	1.69	0.57
2:HD:372:THR:HA	2:HD:422:TYR:HE2	1.69	0.57
1:IA:88:HIS:HB3	1:IA:91:GLN:HG2	1.86	0.57
2:JB:177:ASP:HA	1:JC:353:VAL:HG12	1.86	0.57
1:JC:88:HIS:O	1:KC:280:LYS:NZ	2.37	0.57
1:JC:282:TYR:CZ	10:8Z:17:UNK:CB	2.86	0.57
1:JE:88:HIS:O	1:KE:280:LYS:CE	2.52	0.57
1:LA:88:HIS:HB3	1:LA:91:GLN:HG2	1.86	0.57
2:LF:228:LEU:HD23	6:4D:225:PRO:HG2	1.86	0.57
1:MA:88:HIS:HB3	1:MA:91:GLN:HG2	1.86	0.57
1:ME:88:HIS:HB3	1:ME:91:GLN:HG2	1.86	0.57
7:5A:1543:LEU:O	7:5A:1573:ARG:HD3	2.04	0.57
7:5B:1243:ASP:CB	9:7D:8:ARG:NH1	2.67	0.57
7:5B:1515:GLU:OE1	7:5B:1563:SER:OG	2.20	0.57
7:5C:1491:LEU:N	7:5C:1495:PHE:HB2	2.14	0.57
9:7B:41:PHE:O	9:7B:45:ARG:HG2	2.02	0.57
1:CC:101:ASN:ND2	2:CD:252:LYS:HG3	2.10	0.57
2:EB:391:ARG:HG3	1:EC:346:TRP:CD1	2.38	0.57
2:FB:67:ASP:OD1	2:FB:68:LEU:N	2.37	0.57
2:FB:106:TYR:CE1	7:5C:1295:LYS:N	2.70	0.57
1:GA:401:LYS:CE	2:GB:344:TRP:CZ3	2.67	0.57
2:GB:177:ASP:HA	1:GC:353:VAL:HG12	1.86	0.57
2:HF:67:ASP:OD1	2:HF:68:LEU:N	2.37	0.57
2:IB:424:GLN:HE21	7:5C:1413:GLN:HE21	0.61	0.57
1:IC:402:ARG:NH2	7:5A:1418:GLN:HA	2.19	0.57
2:JB:222:TYR:O	2:JB:226:ASN:ND2	2.27	0.57
1:KA:88:HIS:ND1	1:LA:284:GLU:OE1	2.37	0.57
1:KE:105:ARG:NH1	2:KF:251:ARG:HD3	2.19	0.57
1:MA:222:PRO:O	2:MB:322:SER:HB2	2.04	0.57
6:4C:223:PHE:N	6:4C:223:PHE:HD2	2.02	0.57
6:4C:282:ASN:OD1	6:4C:282:ASN:N	2.35	0.57
7:5A:1491:LEU:N	7:5A:1495:PHE:HB2	2.14	0.57
7:5B:1449:LEU:HD22	7:5B:1452:HIS:HD2	1.68	0.57
7:5C:1455:LYS:O	7:5C:1455:LYS:HE2	2.02	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:7E:11:TYR:HD1	9:7F:26:LEU:CD2	2.01	0.57
1:CA:282:TYR:HE2	10:8D:18:UNK:CA	2.17	0.57
2:CD:222:TYR:O	2:CD:226:ASN:ND2	2.28	0.57
1:DA:141:VAL:HG11	1:DA:172:TYR:CD1	2.38	0.57
1:EA:404:PHE:CE2	2:EB:345:ILE:CD1	2.86	0.57
2:GD:416:ASN:CG	7:5A:1327:LYS:HZ1	2.12	0.57
2:HB:177:ASP:HA	1:HC:353:VAL:HG12	1.86	0.57
2:HF:372:THR:HA	2:HF:422:TYR:HE2	1.69	0.57
1:IC:394:LYS:NZ	2:ID:347:ASN:OD1	2.36	0.57
2:ID:309:ARG:NH2	2:ID:426:GLN:O	2.32	0.57
1:JE:91:GLN:H	1:KE:280:LYS:HZ2	0.59	0.57
2:KD:124:ALA:O	4:2A:37:GLY:C	2.47	0.57
2:LB:372:THR:HA	2:LB:422:TYR:HE2	1.69	0.57
2:LB:379:LYS:CA	4:2C:166:ILE:HD12	1.83	0.57
2:LD:98:GLY:HA2	1:LE:254:GLU:HG3	1.84	0.57
2:LD:179:VAL:HG22	1:LE:258:ASN:CB	2.34	0.57
2:LD:372:THR:HA	2:LD:422:TYR:HE2	1.69	0.57
1:LE:60:LYS:CD	1:ME:283:HIS:CG	2.86	0.57
2:LF:67:ASP:OD1	2:LF:68:LEU:N	2.36	0.57
1:MA:222:PRO:HG3	2:MB:324:LYS:HD3	1.83	0.57
2:MD:212:PHE:HZ	1:ME:326:LYS:HD3	0.59	0.57
1:ME:141:VAL:HG11	1:ME:172:TYR:CD1	2.38	0.57
7:5A:1105:TYR:CB	7:5A:1165:PRO:HA	2.34	0.57
7:5A:1408:GLU:HA	7:5A:1408:GLU:OE1	2.03	0.57
7:5A:1487:ASN:CB	7:5A:1568:LYS:CD	2.80	0.57
7:5A:1544:ILE:C	7:5A:1570:ALA:CB	2.76	0.57
7:5B:1487:ASN:CB	7:5B:1568:LYS:CD	2.80	0.57
7:5B:1541:ILE:HG23	7:5B:1574:ILE:HD11	1.85	0.57
7:5B:1543:LEU:C	7:5B:1573:ARG:HD3	2.29	0.57
7:5C:811:GLN:O	7:5C:814:LYS:N	2.38	0.57
7:5C:1105:TYR:CB	7:5C:1165:PRO:HA	2.34	0.57
7:5C:1347:LEU:HD13	7:5C:1347:LEU:N	2.19	0.57
7:5C:1408:GLU:HA	7:5C:1408:GLU:OE1	2.03	0.57
7:5C:1543:LEU:O	7:5C:1573:ARG:HD3	2.04	0.57
2:BD:372:THR:HA	2:BD:422:TYR:HE2	1.69	0.57
1:DC:402:ARG:CD	7:5A:777:ALA:HB2	2.32	0.57
1:FC:422:ARG:CZ	7:5A:1170:THR:CA	2.81	0.57
2:FF:401:GLU:N	7:5B:1293:VAL:HG21	2.20	0.57
2:HD:67:ASP:OD1	2:HD:68:LEU:N	2.37	0.57
2:HF:222:TYR:O	2:HF:226:ASN:ND2	2.28	0.57
2:IB:397:TRP:CD2	1:IC:256:GLN:O	2.30	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IB:424:GLN:HE22	7:5C:1413:GLN:NE2	0.40	0.57
1:JA:404:PHE:HE2	2:JB:345:ILE:HD12	1.70	0.57
2:JB:179:VAL:HG21	1:JC:258:ASN:C	2.28	0.57
2:KB:179:VAL:HG21	1:KC:258:ASN:C	2.28	0.57
2:KB:309:ARG:NH2	2:KB:426:GLN:O	2.32	0.57
2:KF:54:ALA:CA	2:LF:285:THR:CG2	2.80	0.57
2:KF:55:THR:OG1	2:LF:284:LEU:O	2.23	0.57
1:LA:60:LYS:HD3	1:MA:283:HIS:CA	2.34	0.57
2:LF:221:THR:CG2	6:4D:220:GLY:N	2.68	0.57
1:MC:141:VAL:HG11	1:MC:172:TYR:CD1	2.38	0.57
2:MD:220:PRO:HD2	1:ME:326:LYS:HE2	1.86	0.57
6:4A:223:PHE:HD2	6:4A:223:PHE:N	2.02	0.57
6:4B:223:PHE:HD2	6:4B:223:PHE:N	2.02	0.57
6:4C:139:ASP:O	6:4C:142:SER:OG	2.20	0.57
7:5A:811:GLN:O	7:5A:814:LYS:N	2.38	0.57
7:5A:1262:GLU:O	7:5A:1266:TYR:CD2	2.57	0.57
7:5A:1347:LEU:HD13	7:5A:1347:LEU:N	2.19	0.57
7:5B:811:GLN:O	7:5B:814:LYS:N	2.38	0.57
7:5B:1105:TYR:CB	7:5B:1165:PRO:HA	2.34	0.57
7:5B:1262:GLU:O	7:5B:1266:TYR:CD2	2.57	0.57
7:5C:1262:GLU:O	7:5C:1266:TYR:CD2	2.58	0.57
7:5C:1487:ASN:CB	7:5C:1568:LYS:CD	2.80	0.57
1:BE:404:PHE:HE2	2:BF:345:ILE:HD12	1.67	0.57
2:BF:67:ASP:OD1	2:BF:68:LEU:N	2.37	0.57
2:CD:100:ASN:HB2	1:CE:257:THR:HG21	1.86	0.57
2:ED:222:TYR:O	2:ED:226:ASN:ND2	2.28	0.57
1:FC:419:SER:HB2	7:5A:1256:ARG:CZ	2.21	0.57
1:HA:282:TYR:CE1	10:8S:15:UNK:HA	2.39	0.57
2:HB:179:VAL:HG21	1:HC:258:ASN:C	2.28	0.57
1:IE:105:ARG:NH1	2:IF:251:ARG:HD3	2.19	0.57
2:KB:87:PRO:CG	2:LB:282:ARG:HG2	2.18	0.57
2:KF:273:LEU:N	6:4D:268:LEU:CD2	2.67	0.57
1:LC:221:ARG:NH2	2:LD:321:MET:O	2.35	0.57
2:MD:106:TYR:HE1	3:1B:32:ARG:NH1	1.92	0.57
2:MD:397:TRP:CD2	1:ME:256:GLN:O	2.28	0.57
2:MF:309:ARG:NH2	2:MF:426:GLN:O	2.32	0.57
6:4D:223:PHE:N	6:4D:223:PHE:HD2	2.02	0.57
6:4D:282:ASN:OD1	6:4D:282:ASN:N	2.34	0.57
7:5A:1541:ILE:HG23	7:5A:1574:ILE:HD11	1.85	0.57
7:5A:1543:LEU:C	7:5A:1573:ARG:HD3	2.29	0.57
7:5B:1408:GLU:HA	7:5B:1408:GLU:OE1	2.03	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1544:ILE:C	7:5B:1570:ALA:CB	2.76	0.57
9:7E:39:GLY:HA3	9:7F:43:LEU:HG	1.87	0.57
2:BB:372:THR:HA	2:BB:422:TYR:HE2	1.69	0.57
2:CF:372:THR:HA	2:CF:422:TYR:HE2	1.69	0.57
2:ED:125:GLU:HA	7:5A:903:PHE:CE1	2.29	0.57
2:FB:222:TYR:O	2:FB:226:ASN:ND2	2.28	0.57
1:HA:278:ALA:HB1	10:8S:18:UNK:C	2.15	0.57
1:HA:404:PHE:HE2	2:HB:345:ILE:HD12	1.70	0.57
1:IC:402:ARG:CZ	7:5A:1417:GLN:CB	2.83	0.57
2:KB:124:ALA:O	4:2C:37:GLY:O	2.22	0.57
2:KF:273:LEU:HA	6:4D:268:LEU:CG	2.27	0.57
1:LC:60:LYS:NZ	1:MC:283:HIS:CE1	2.73	0.57
2:LF:274:THR:H	6:4D:228:LEU:HD21	1.70	0.57
2:LF:419:VAL:HB	4:2B:168:LEU:HD11	1.87	0.57
1:MA:141:VAL:HG11	1:MA:172:TYR:CD1	2.38	0.57
2:MB:111:GLU:OE2	3:1A:62:SER:HB2	2.04	0.57
2:MB:309:ARG:NH2	2:MB:426:GLN:O	2.32	0.57
1:ME:279:GLU:CD	6:4B:106:ALA:HB3	2.30	0.57
4:2A:15:GLU:O	4:2A:19:MET:N	2.38	0.57
4:2C:15:GLU:O	4:2C:19:MET:N	2.38	0.57
6:4A:287:ASP:N	6:4A:287:ASP:OD2	2.30	0.57
6:4C:132:LYS:HE2	6:4C:132:LYS:C	2.29	0.57
7:5C:1541:ILE:HG23	7:5C:1574:ILE:HD11	1.85	0.57
9:7A:7:LEU:CD2	9:7B:27:GLY:O	2.37	0.57
1:AA:178:SER:OG	2:AB:347:ASN:HB3	2.05	0.57
2:AF:281:TYR:CE1	1:MC:88:HIS:HA	2.39	0.57
2:BB:87:PRO:CD	2:CB:281:TYR:CZ	2.85	0.57
2:CB:139:LEU:HD22	2:CB:170:VAL:HG12	1.87	0.57
2:DB:139:LEU:HD22	2:DB:170:VAL:HG12	1.87	0.57
2:DD:139:LEU:HD22	2:DD:170:VAL:HG12	1.87	0.57
2:DF:139:LEU:HD22	2:DF:170:VAL:HG12	1.87	0.57
2:ED:55:THR:N	2:FD:283:ALA:HB2	2.19	0.57
1:FA:401:LYS:CE	2:FB:344:TRP:CZ3	2.74	0.57
2:HB:67:ASP:OD1	2:HB:68:LEU:N	2.37	0.57
1:IA:178:SER:OG	2:IB:347:ASN:HB3	2.05	0.57
2:ID:178:THR:HA	1:IE:352:LYS:HD3	1.86	0.57
2:IF:372:THR:HA	2:IF:422:TYR:HE2	1.69	0.57
1:JA:89:PRO:HD2	1:KA:283:HIS:CG	2.40	0.57
1:JA:178:SER:OG	2:JB:347:ASN:HB3	2.05	0.57
1:KA:87:PHE:O	1:LA:284:GLU:HB3	2.05	0.57
2:KF:67:ASP:OD1	2:KF:68:LEU:N	2.37	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:77:ARG:HG3	2:LF:281:TYR:CE1	2.39	0.57
2:KF:372:THR:HA	2:KF:422:TYR:HE2	1.69	0.57
1:LE:221:ARG:NH2	2:LF:321:MET:O	2.35	0.57
2:LF:416:ASN:HA	4:2B:168:LEU:CD1	2.32	0.57
2:MD:309:ARG:NH2	2:MD:426:GLN:O	2.32	0.57
4:2B:15:GLU:O	4:2B:19:MET:N	2.38	0.57
4:2C:172:ASP:CB	4:2C:173:PRO:HD2	2.09	0.57
6:4A:132:LYS:HE2	6:4A:132:LYS:C	2.29	0.57
6:4A:248:VAL:HG13	6:4A:288:TYR:CD2	2.40	0.57
6:4A:282:ASN:N	6:4A:282:ASN:OD1	2.35	0.57
6:4C:248:VAL:HG13	6:4C:288:TYR:CD2	2.40	0.57
6:4D:99:ARG:CZ	6:4D:99:ARG:HB2	2.35	0.57
6:4D:167:ARG:CZ	6:4D:167:ARG:HB2	2.35	0.57
7:5B:1347:LEU:HD13	7:5B:1347:LEU:N	2.19	0.57
7:5B:1412:LYS:HE2	7:5B:1416:LYS:HB2	1.85	0.57
7:5B:1487:ASN:CA	7:5B:1568:LYS:HE2	2.24	0.57
7:5B:1521:PHE:CE2	7:5B:1567:PHE:CG	2.58	0.57
9:7A:10:TYR:CE2	9:7B:26:LEU:HG	2.40	0.57
10:8U:36:UNK:O	10:8U:37:UNK:CB	2.53	0.57
1:AA:404:PHE:HE2	2:AB:345:ILE:HD12	1.70	0.57
1:AE:60:LYS:HZ2	1:BE:283:HIS:CE1	2.23	0.57
2:AF:321:MET:C	6:4A:156:PHE:HD2	2.12	0.57
2:BB:222:TYR:O	2:BB:226:ASN:ND2	2.28	0.57
1:BC:401:LYS:HE3	2:BD:344:TRP:CZ3	2.39	0.57
2:CD:139:LEU:HD22	2:CD:170:VAL:HG12	1.87	0.57
1:DC:62:VAL:CG2	1:EC:283:HIS:O	2.49	0.57
2:DF:372:THR:HA	2:DF:422:TYR:HE2	1.69	0.57
2:EB:177:ASP:C	1:EC:352:LYS:HA	2.30	0.57
1:EC:224:TYR:HE2	2:ED:246:LEU:HD11	1.69	0.57
2:EF:139:LEU:HD22	2:EF:170:VAL:HG12	1.87	0.57
1:GA:404:PHE:HE2	2:GB:345:ILE:HD12	1.70	0.57
2:IB:424:GLN:HE22	7:5C:1413:GLN:HE22	0.57	0.57
1:JA:124:LYS:CD	1:KA:284:GLU:OE1	2.53	0.57
2:JB:220:PRO:CD	1:JC:326:LYS:HE2	2.35	0.57
2:JD:85:PHE:HB3	2:KD:281:TYR:OH	2.04	0.57
1:JE:89:PRO:HD2	1:KE:280:LYS:HA	1.85	0.57
1:KA:178:SER:OG	2:KB:347:ASN:HB3	2.05	0.57
1:KC:88:HIS:HA	1:LC:284:GLU:HA	1.85	0.57
2:KD:276:ARG:NH2	6:4B:265:TYR:HB2	2.20	0.57
2:LB:177:ASP:HA	1:LC:353:VAL:HG12	1.87	0.57
2:LD:67:ASP:OD1	2:LD:68:LEU:N	2.37	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1487:ASN:ND2	7:5C:1568:LYS:HG2	2.18	0.57
7:5C:1543:LEU:C	7:5C:1573:ARG:HD3	2.29	0.57
9:7C:10:TYR:CE2	9:7D:26:LEU:HG	2.40	0.57
1:AE:386:GLU:CD	3:1A:76:ARG:NH2	2.63	0.57
2:BD:67:ASP:OD1	2:BD:68:LEU:N	2.37	0.57
2:BF:139:LEU:HD22	2:BF:170:VAL:HG12	1.87	0.57
1:CA:60:LYS:HZ3	1:DA:283:HIS:CD2	2.18	0.57
1:CE:401:LYS:CE	2:CF:344:TRP:CZ3	2.74	0.57
2:CF:139:LEU:HD22	2:CF:170:VAL:HG12	1.87	0.57
1:EA:404:PHE:HE2	2:EB:345:ILE:HD12	1.69	0.57
2:EB:222:TYR:O	2:EB:226:ASN:ND2	2.27	0.57
1:EC:62:VAL:CG2	1:FC:283:HIS:O	2.52	0.57
2:ED:139:LEU:HD22	2:ED:170:VAL:HG12	1.87	0.57
2:FD:222:TYR:O	2:FD:226:ASN:ND2	2.27	0.57
2:FF:139:LEU:HD22	2:FF:170:VAL:HG12	1.87	0.57
2:GD:178:THR:HA	1:GE:352:LYS:HD3	1.86	0.57
1:GE:56:THR:CA	1:HE:285:GLN:HB3	2.34	0.57
2:IB:309:ARG:NH2	2:IB:426:GLN:O	2.32	0.57
2:KB:228:LEU:HG	6:4A:267:ILE:HD12	1.87	0.57
1:KC:79:ARG:HB3	1:LC:280:LYS:NZ	0.40	0.57
2:KD:372:THR:HA	2:KD:422:TYR:HE2	1.69	0.57
2:LF:139:LEU:HD22	2:LF:170:VAL:HG12	1.87	0.57
4:2A:172:ASP:CB	4:2A:173:PRO:HD2	2.08	0.57
5:3B:231:THR:CA	5:3B:332:MET:HA	2.34	0.57
6:4B:99:ARG:CZ	6:4B:99:ARG:HB2	2.35	0.57
6:4B:248:VAL:HG13	6:4B:288:TYR:CD2	2.40	0.57
6:4D:248:VAL:HG13	6:4D:288:TYR:CD2	2.40	0.57
7:5A:1573:ARG:O	7:5A:1577:LYS:CA	2.53	0.57
7:5B:1246:LEU:CA	9:7D:12:GLU:CD	2.77	0.57
2:AB:139:LEU:HD22	2:AB:170:VAL:HG12	1.87	0.57
2:AD:177:ASP:HA	1:AE:353:VAL:HG12	1.87	0.57
1:AE:280:LYS:NZ	2:MB:86:ARG:HH21	2.03	0.57
2:BD:176:SER:OG	1:BE:349:THR:OG1	2.23	0.57
2:CD:86:ARG:HB2	2:DD:281:TYR:CE1	2.31	0.57
2:CD:372:THR:HA	2:CD:422:TYR:HE2	1.69	0.57
2:DB:86:ARG:HA	2:EB:281:TYR:CD1	2.30	0.57
2:ED:180:VAL:HG12	1:EE:258:ASN:OD1	2.05	0.57
1:FA:141:VAL:HG11	1:FA:172:TYR:CD1	2.38	0.57
1:FA:401:LYS:HE3	2:FB:344:TRP:CZ3	2.40	0.57
2:FD:139:LEU:HD22	2:FD:170:VAL:HG12	1.87	0.57
2:FF:372:THR:HA	2:FF:422:TYR:HE2	1.69	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:178:SER:OG	2:GB:347:ASN:HB3	2.05	0.57
2:GB:139:LEU:HD22	2:GB:170:VAL:HG12	1.87	0.57
2:GB:397:TRP:CD2	1:GC:256:GLN:O	2.30	0.57
2:HB:139:LEU:HD22	2:HB:170:VAL:HG12	1.87	0.57
2:HD:139:LEU:HD22	2:HD:170:VAL:HG12	1.87	0.57
2:HF:139:LEU:HD22	2:HF:170:VAL:HG12	1.87	0.57
1:IA:279:GLU:CA	10:8V:22:UNK:CB	2.82	0.57
2:ID:139:LEU:HD22	2:ID:170:VAL:HG12	1.87	0.57
2:ID:372:THR:HA	2:ID:422:TYR:HE2	1.69	0.57
2:JB:372:THR:HA	2:JB:422:TYR:HE2	1.69	0.57
2:JD:397:TRP:CD2	1:JE:256:GLN:O	2.31	0.57
2:KD:67:ASP:OD1	2:KD:68:LEU:N	2.36	0.57
2:LD:391:ARG:O	1:LE:262:TYR:OH	2.23	0.57
6:4B:132:LYS:HE2	6:4B:132:LYS:C	2.29	0.57
6:4B:167:ARG:CZ	6:4B:167:ARG:HB2	2.35	0.57
6:4B:282:ASN:N	6:4B:282:ASN:OD1	2.35	0.57
6:4D:132:LYS:HE2	6:4D:132:LYS:C	2.29	0.57
7:5B:1152:GLU:CD	8:6B:66:ARG:CZ	2.78	0.57
7:5C:1436:ARG:HB3	7:5C:1436:ARG:NH1	2.19	0.57
7:5C:1573:ARG:O	7:5C:1577:LYS:CA	2.53	0.57
2:AD:177:ASP:OD1	1:AE:353:VAL:HG12	1.84	0.56
2:CF:222:TYR:O	2:CF:226:ASN:ND2	2.28	0.56
2:EB:220:PRO:HD2	1:EC:326:LYS:CG	2.31	0.56
1:FA:89:PRO:CG	1:GA:280:LYS:CG	2.61	0.56
2:FB:180:VAL:HG12	1:FC:258:ASN:OD1	2.04	0.56
2:GD:177:ASP:HA	1:GE:353:VAL:HG12	1.87	0.56
2:GF:58:ARG:HD3	2:HF:281:TYR:HA	1.85	0.56
1:HA:278:ALA:HB3	10:8S:22:UNK:CA	2.35	0.56
2:IB:179:VAL:HG21	1:IC:258:ASN:C	2.27	0.56
2:IB:372:THR:HA	2:IB:422:TYR:HE2	1.69	0.56
2:IF:139:LEU:HD22	2:IF:170:VAL:HG12	1.87	0.56
2:JD:139:LEU:HD22	2:JD:170:VAL:HG12	1.87	0.56
2:KD:177:ASP:HA	1:KE:353:VAL:HG12	1.87	0.56
2:KF:55:THR:H	2:LF:285:THR:HG22	1.70	0.56
2:KF:276:ARG:NH2	6:4D:265:TYR:HB2	2.20	0.56
2:LB:397:TRP:CD2	1:LC:256:GLN:O	2.31	0.56
1:LC:141:VAL:HG11	1:LC:172:TYR:CD1	2.38	0.56
2:LD:139:LEU:HD22	2:LD:170:VAL:HG12	1.87	0.56
2:LD:309:ARG:NH2	2:LD:426:GLN:O	2.32	0.56
1:LE:141:VAL:HG11	1:LE:172:TYR:CD1	2.38	0.56
2:MB:372:THR:HA	2:MB:422:TYR:HE2	1.69	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MF:139:LEU:HD22	2:MF:170:VAL:HG12	1.87	0.56
5:3A:231:THR:CA	5:3A:332:MET:HA	2.34	0.56
6:4A:99:ARG:CZ	6:4A:99:ARG:HB2	2.35	0.56
6:4B:156:PHE:O	6:4B:156:PHE:HD1	1.88	0.56
6:4C:156:PHE:O	6:4C:156:PHE:HD1	1.88	0.56
7:5A:1487:ASN:ND2	7:5A:1568:LYS:HG2	2.18	0.56
7:5A:1490:LYS:HB3	7:5A:1495:PHE:HB2	1.87	0.56
7:5B:1490:LYS:HB3	7:5B:1495:PHE:HB2	1.87	0.56
7:5B:1573:ARG:O	7:5B:1577:LYS:CA	2.53	0.56
7:5C:1412:LYS:HE2	7:5C:1416:LYS:HB2	1.85	0.56
9:7E:14:SER:C	9:7F:35:ILE:HD11	2.30	0.56
10:8I:36:UNK:O	10:8I:37:UNK:CB	2.53	0.56
2:AD:223:GLY:O	6:4C:131:VAL:CA	2.41	0.56
2:BB:397:TRP:CD2	1:BC:256:GLN:O	2.33	0.56
2:BD:139:LEU:HD22	2:BD:170:VAL:HG12	1.87	0.56
2:BD:222:TYR:O	2:BD:226:ASN:ND2	2.27	0.56
1:BE:178:SER:OG	2:BF:347:ASN:HB3	2.04	0.56
2:CB:372:THR:HA	2:CB:422:TYR:HE2	1.69	0.56
1:CE:404:PHE:HE2	2:CF:345:ILE:HD12	1.70	0.56
2:DD:372:THR:HA	2:DD:422:TYR:HE2	1.69	0.56
1:EA:71:GLU:CD	2:EB:247:ASN:ND2	2.63	0.56
2:EF:55:THR:CG2	2:FF:284:LEU:N	2.66	0.56
1:FA:222:PRO:HG2	2:FB:324:LYS:CD	2.34	0.56
2:FB:139:LEU:HD22	2:FB:170:VAL:HG12	1.87	0.56
2:GB:179:VAL:HG21	1:GC:258:ASN:C	2.28	0.56
2:GD:139:LEU:HD22	2:GD:170:VAL:HG12	1.87	0.56
2:GF:67:ASP:OD1	2:GF:68:LEU:N	2.37	0.56
2:GF:139:LEU:HD22	2:GF:170:VAL:HG12	1.87	0.56
2:HD:178:THR:HA	1:HE:352:LYS:HD3	1.86	0.56
1:IA:282:TYR:CB	10:8V:15:UNK:CB	2.82	0.56
2:IB:139:LEU:HD22	2:IB:170:VAL:HG12	1.87	0.56
2:IB:220:PRO:CD	1:IC:326:LYS:HE2	2.35	0.56
1:IE:402:ARG:HH21	7:5B:1417:GLN:HG3	1.52	0.56
2:JB:139:LEU:HD22	2:JB:170:VAL:HG12	1.87	0.56
2:JF:139:LEU:HD22	2:JF:170:VAL:HG12	1.87	0.56
2:KB:372:THR:HA	2:KB:422:TYR:HE2	1.69	0.56
2:KD:125:GLU:HB2	2:LD:336:LYS:CE	2.33	0.56
2:KD:178:THR:HA	1:KE:352:LYS:HD3	1.86	0.56
2:LB:67:ASP:OD1	2:LB:68:LEU:N	2.37	0.56
2:LB:139:LEU:HD22	2:LB:170:VAL:HG12	1.87	0.56
2:MB:179:VAL:CG2	1:MC:258:ASN:CA	2.83	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MC:222:PRO:CD	2:MD:324:LYS:HD3	2.35	0.56
2:MD:139:LEU:HD22	2:MD:170:VAL:HG12	1.87	0.56
1:ME:100:ALA:HB1	2:MF:252:LYS:CA	2.35	0.56
6:4A:156:PHE:HD1	6:4A:156:PHE:O	1.88	0.56
6:4D:156:PHE:O	6:4D:156:PHE:HD1	1.88	0.56
7:5A:1412:LYS:HE2	7:5A:1416:LYS:HB2	1.85	0.56
7:5A:1436:ARG:HB3	7:5A:1436:ARG:NH1	2.19	0.56
7:5A:1487:ASN:CA	7:5A:1568:LYS:HE2	2.24	0.56
7:5C:1490:LYS:HB3	7:5C:1495:PHE:HB2	1.87	0.56
8:6A:4:LYS:HD3	8:6A:6:TYR:OH	2.05	0.56
10:8C:36:UNK:O	10:8C:37:UNK:CB	2.53	0.56
10:8K:36:UNK:O	10:8K:37:UNK:CB	2.53	0.56
10:8L:36:UNK:O	10:8L:37:UNK:CB	2.53	0.56
2:AD:139:LEU:HD22	2:AD:170:VAL:HG12	1.87	0.56
2:AF:55:THR:CG2	2:BF:283:ALA:CB	2.78	0.56
2:AF:139:LEU:HD22	2:AF:170:VAL:HG12	1.87	0.56
1:BA:105:ARG:NH1	2:BB:251:ARG:HD3	2.20	0.56
2:BB:67:ASP:OD1	2:BB:68:LEU:N	2.37	0.56
2:BB:139:LEU:HD22	2:BB:170:VAL:HG12	1.87	0.56
1:BC:105:ARG:NH1	2:BD:251:ARG:HD3	2.20	0.56
2:BD:177:ASP:C	1:BE:352:LYS:HA	2.30	0.56
1:BE:105:ARG:NH1	2:BF:251:ARG:HD3	2.20	0.56
1:CC:404:PHE:HE2	2:CD:345:ILE:HD12	1.70	0.56
1:CE:60:LYS:HD3	1:DE:283:HIS:HD2	1.70	0.56
2:DB:372:THR:HA	2:DB:422:TYR:HE2	1.69	0.56
2:EB:139:LEU:HD22	2:EB:170:VAL:HG12	1.87	0.56
2:EB:222:TYR:CD2	1:EC:247:ALA:HB1	2.40	0.56
1:EC:402:ARG:CD	7:5A:824:ARG:HH22	2.17	0.56
2:ED:83:GLN:O	2:FD:281:TYR:OH	2.23	0.56
1:FA:71:GLU:CD	2:FB:247:ASN:HD22	2.12	0.56
1:FA:398:MET:SD	2:FB:345:ILE:CG1	2.80	0.56
2:FD:54:ALA:HB1	2:GD:281:TYR:O	2.06	0.56
2:FD:372:THR:HA	2:FD:422:TYR:HE2	1.69	0.56
1:GC:60:LYS:NZ	1:HC:283:HIS:CG	2.64	0.56
1:HA:178:SER:OG	2:HB:347:ASN:HB3	2.05	0.56
2:HB:222:TYR:CD2	1:HC:247:ALA:HB1	2.40	0.56
2:HB:309:ARG:NH2	2:HB:426:GLN:O	2.32	0.56
2:HD:177:ASP:HA	1:HE:353:VAL:HG12	1.87	0.56
2:ID:177:ASP:HA	1:IE:353:VAL:HG12	1.87	0.56
1:IE:402:ARG:CZ	7:5B:1417:GLN:CG	2.71	0.56
2:JD:177:ASP:HA	1:JE:353:VAL:HG12	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JD:178:THR:HA	1:JE:352:LYS:HD3	1.86	0.56
2:JD:222:TYR:O	2:JD:226:ASN:ND2	2.28	0.56
2:JD:372:THR:HA	2:JD:422:TYR:HE2	1.69	0.56
1:JE:105:ARG:NH1	2:JF:251:ARG:HD3	2.19	0.56
2:KB:67:ASP:OD1	2:KB:68:LEU:N	2.37	0.56
2:KB:77:ARG:HG3	2:LB:281:TYR:CE1	2.38	0.56
2:KB:139:LEU:HD22	2:KB:170:VAL:HG12	1.87	0.56
1:KC:85:GLN:CG	1:LC:283:HIS:HD2	2.18	0.56
2:KD:139:LEU:HD22	2:KD:170:VAL:HG12	1.87	0.56
2:KF:139:LEU:HD22	2:KF:170:VAL:HG12	1.87	0.56
1:LA:141:VAL:HG11	1:LA:172:TYR:CD1	2.38	0.56
2:LB:179:VAL:HG22	1:LC:258:ASN:CG	2.31	0.56
2:LD:220:PRO:O	1:LE:324:VAL:CG1	2.54	0.56
2:LD:306:ARG:CZ	4:2A:151:VAL:HG21	2.13	0.56
2:LF:309:ARG:NH2	2:LF:426:GLN:O	2.32	0.56
2:MB:78:ALA:HB1	6:4A:178:HIS:CD2	2.40	0.56
2:MB:139:LEU:HD22	2:MB:170:VAL:HG12	1.87	0.56
2:MD:177:ASP:OD1	1:ME:353:VAL:HG12	1.87	0.56
2:MD:177:ASP:OD2	1:ME:248:LEU:HD23	2.05	0.56
4:2A:149:ILE:HG22	4:2A:149:ILE:O	2.04	0.56
4:2A:164:ARG:HG3	4:2A:166:ILE:HG13	1.87	0.56
4:2C:149:ILE:HG22	4:2C:149:ILE:O	2.04	0.56
5:3C:231:THR:CA	5:3C:332:MET:HA	2.34	0.56
6:4A:167:ARG:CZ	6:4A:167:ARG:HB2	2.35	0.56
6:4C:99:ARG:CZ	6:4C:99:ARG:HB2	2.35	0.56
7:5A:1266:TYR:HB3	9:7A:8:ARG:HH22	1.70	0.56
7:5B:841:VAL:CG2	8:6B:11:PRO:CA	2.82	0.56
7:5B:1487:ASN:ND2	7:5B:1568:LYS:HG2	2.18	0.56
8:6B:4:LYS:HD3	8:6B:6:TYR:OH	2.05	0.56
9:7A:42:LEU:CD1	9:7B:39:GLY:HA3	2.32	0.56
10:8F:36:UNK:O	10:8F:37:UNK:CB	2.53	0.56
10:8H:36:UNK:O	10:8H:37:UNK:CB	2.53	0.56
10:8J:36:UNK:O	10:8J:37:UNK:CB	2.53	0.56
10:8N:36:UNK:O	10:8N:37:UNK:CB	2.53	0.56
2:AB:54:ALA:HB1	2:BB:281:TYR:O	2.06	0.56
2:AF:321:MET:HA	6:4A:156:PHE:CE2	2.41	0.56
2:CB:177:ASP:C	1:CC:352:LYS:HA	2.31	0.56
2:CD:390:ARG:HD2	1:CE:439:THR:HG21	1.88	0.56
1:CE:282:TYR:HE2	10:8F:18:UNK:HA	1.67	0.56
1:DE:401:LYS:HE3	2:DF:344:TRP:CZ3	2.41	0.56
1:EE:222:PRO:CG	2:EF:324:LYS:CD	2.82	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:207:GLU:CD	7:5C:915:PHE:HD2	2.14	0.56
1:GA:101:ASN:ND2	2:GB:252:LYS:HG3	2.10	0.56
2:GB:222:TYR:CD2	1:GC:247:ALA:HB1	2.40	0.56
2:GD:67:ASP:OD1	2:GD:68:LEU:N	2.37	0.56
2:GF:372:THR:HA	2:GF:422:TYR:HE2	1.69	0.56
2:IB:178:THR:HA	1:IC:352:LYS:HD3	1.87	0.56
2:KD:397:TRP:CD2	1:KE:256:GLN:O	2.31	0.56
1:KE:100:ALA:HB1	2:KF:252:LYS:HA	1.88	0.56
2:LB:208:TYR:OH	1:LC:325:PRO:HB2	2.06	0.56
2:LF:228:LEU:CD2	6:4D:225:PRO:HG2	2.35	0.56
1:ME:401:LYS:HE3	2:MF:344:TRP:CZ3	2.40	0.56
2:MF:372:THR:HA	2:MF:422:TYR:HE2	1.69	0.56
4:2C:164:ARG:HG3	4:2C:166:ILE:HG13	1.88	0.56
5:3A:230:ILE:HG22	5:3A:332:MET:HG2	1.88	0.56
5:3C:230:ILE:HG22	5:3C:332:MET:HG2	1.88	0.56
7:5A:1272:ILE:HD11	9:7B:11:TYR:HD2	1.70	0.56
7:5A:1545:TYR:OH	7:5A:1560:ILE:O	2.22	0.56
7:5B:1471:ILE:HD12	7:5B:1471:ILE:N	2.18	0.56
7:5B:1545:TYR:OH	7:5B:1560:ILE:O	2.22	0.56
8:6C:57:ARG:NH1	8:6C:195:LYS:O	2.39	0.56
9:7E:10:TYR:OH	9:7F:31:PRO:O	2.21	0.56
10:8B:36:UNK:O	10:8B:37:UNK:CB	2.53	0.56
10:8G:36:UNK:O	10:8G:37:UNK:CB	2.53	0.56
10:8Z:36:UNK:O	10:8Z:37:UNK:CB	2.53	0.56
1:DA:101:ASN:ND2	2:DB:252:LYS:HG3	2.10	0.56
1:DC:100:ALA:HB1	2:DD:252:LYS:HA	1.87	0.56
2:ED:372:THR:HA	2:ED:422:TYR:HE2	1.69	0.56
2:EF:372:THR:HA	2:EF:422:TYR:HE2	1.69	0.56
2:FB:372:THR:HA	2:FB:422:TYR:HE2	1.69	0.56
1:FE:402:ARG:CZ	7:5B:1259:TYR:HA	2.36	0.56
1:FE:422:ARG:HE	7:5B:1170:THR:CB	2.08	0.56
2:FF:55:THR:H	2:GF:283:ALA:CA	2.19	0.56
2:GB:178:THR:HA	1:GC:352:LYS:HD3	1.87	0.56
1:GE:100:ALA:HB1	2:GF:252:LYS:HA	1.88	0.56
2:HB:220:PRO:CD	1:HC:326:LYS:HE2	2.35	0.56
1:IC:278:ALA:CB	10:8W:22:UNK:N	2.64	0.56
1:IE:389:SER:HB2	5:3A:307:LYS:HB3	1.88	0.56
2:JD:220:PRO:CD	1:JE:326:LYS:HE2	2.35	0.56
1:KA:404:PHE:HE2	2:KB:345:ILE:HD12	1.70	0.56
2:KB:222:TYR:CD2	1:KC:247:ALA:HB1	2.40	0.56
2:LB:222:TYR:HD2	1:LC:247:ALA:HB1	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LB:340:TYR:CD1	4:2C:147:PHE:HA	2.37	0.56
2:LD:228:LEU:HD21	6:4B:225:PRO:HB2	1.86	0.56
2:LD:274:THR:HG23	6:4B:228:LEU:HD22	1.87	0.56
2:MB:177:ASP:OD1	1:MC:353:VAL:HG12	1.90	0.56
2:MD:372:THR:HA	2:MD:422:TYR:HE2	1.69	0.56
4:2B:164:ARG:HG3	4:2B:166:ILE:HG13	1.88	0.56
5:3B:230:ILE:HG22	5:3B:332:MET:HG2	1.88	0.56
7:5B:1267:CYS:O	7:5B:1270:ASP:N	2.38	0.56
7:5B:1436:ARG:HB3	7:5B:1436:ARG:NH1	2.19	0.56
7:5B:1560:ILE:HG22	7:5B:1566:GLU:OE2	2.05	0.56
7:5C:1424:GLN:HE21	7:5C:1424:GLN:CA	2.18	0.56
7:5C:1545:TYR:OH	7:5C:1560:ILE:O	2.22	0.56
8:6A:57:ARG:NH1	8:6A:195:LYS:O	2.39	0.56
8:6B:57:ARG:NH1	8:6B:195:LYS:O	2.39	0.56
8:6C:4:LYS:HD3	8:6C:6:TYR:OH	2.05	0.56
9:7E:35:ILE:HG22	9:7F:43:LEU:HA	1.86	0.56
10:8A:36:UNK:O	10:8A:37:UNK:CB	2.53	0.56
10:8M:36:UNK:O	10:8M:37:UNK:CB	2.53	0.56
2:AF:320:ARG:CD	6:4A:153:ASP:O	2.53	0.56
2:DD:394:PHE:CD1	1:DE:261:PRO:HA	2.41	0.56
2:EB:372:THR:HA	2:EB:422:TYR:HE2	1.69	0.56
2:ED:222:TYR:CD2	1:EE:247:ALA:HB1	2.41	0.56
1:EE:241:SER:OG	1:EE:250:VAL:O	2.23	0.56
1:FA:177:VAL:N	7:5C:915:PHE:CZ	2.73	0.56
2:HF:25:SER:HG	2:HF:51:TYR:HH	1.54	0.56
1:JE:141:VAL:HG11	1:JE:172:TYR:CD1	2.38	0.56
2:JF:372:THR:HA	2:JF:422:TYR:HE2	1.69	0.56
2:KB:86:ARG:NH1	2:LB:283:ALA:HB2	2.09	0.56
2:KD:162:ARG:HG3	4:2A:36:THR:HB	1.87	0.56
2:LD:179:VAL:HG22	1:LE:258:ASN:CG	2.31	0.56
2:LD:340:TYR:CG	4:2A:147:PHE:HB3	2.41	0.56
1:MC:222:PRO:HG3	2:MD:324:LYS:HD3	1.85	0.56
2:MD:111:GLU:OE2	3:1B:62:SER:HB2	2.06	0.56
4:2B:149:ILE:HG22	4:2B:149:ILE:O	2.04	0.56
7:5A:1267:CYS:O	7:5A:1270:ASP:N	2.38	0.56
7:5C:1267:CYS:O	7:5C:1270:ASP:N	2.38	0.56
7:5C:1515:GLU:OE1	7:5C:1563:SER:HB2	2.06	0.56
10:8O:36:UNK:O	10:8O:37:UNK:CB	2.53	0.56
10:8Y:36:UNK:O	10:8Y:37:UNK:CB	2.53	0.56
2:AF:362:LYS:CG	6:4A:146:ILE:HB	2.25	0.56
1:CA:282:TYR:CE2	10:8D:18:UNK:CA	2.86	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DD:176:SER:CB	1:DE:349:THR:OG1	2.53	0.56
1:EC:404:PHE:CE2	2:ED:345:ILE:HD11	2.41	0.56
2:ED:54:ALA:CB	2:FD:281:TYR:O	2.54	0.56
2:EF:55:THR:H	2:FF:283:ALA:HB2	1.71	0.56
1:FC:423:GLU:CG	7:5A:1256:ARG:NH2	2.68	0.56
2:FF:54:ALA:CB	2:GF:281:TYR:O	2.53	0.56
2:GB:212:PHE:HZ	1:GC:326:LYS:CE	2.14	0.56
2:GB:220:PRO:CD	1:GC:326:LYS:HE2	2.35	0.56
2:GB:372:THR:HA	2:GB:422:TYR:HE2	1.69	0.56
1:IA:404:PHE:HE2	2:IB:345:ILE:HD12	1.70	0.56
2:IB:222:TYR:CD2	1:IC:247:ALA:HB1	2.40	0.56
1:JA:101:ASN:ND2	2:JB:252:LYS:HG3	2.10	0.56
1:JC:141:VAL:HG11	1:JC:172:TYR:CD1	2.38	0.56
1:KA:87:PHE:O	1:LA:284:GLU:CA	2.53	0.56
2:KD:339:SER:HB2	7:5A:1504:ARG:NH1	2.21	0.56
1:LA:60:LYS:CE	6:4C:101:ARG:CZ	2.83	0.56
2:LD:15:GLN:NE2	6:4B:217:ASN:OD1	2.39	0.56
2:LD:55:THR:HG1	2:MD:283:ALA:HA	1.68	0.56
1:MA:404:PHE:CE2	2:MB:345:ILE:HD11	2.41	0.56
4:2B:172:ASP:CB	4:2B:173:PRO:HD2	2.08	0.56
6:4C:167:ARG:CZ	6:4C:167:ARG:HB2	2.35	0.56
7:5A:1246:LEU:HG	9:7B:12:GLU:CG	2.36	0.56
7:5A:1515:GLU:OE1	7:5A:1563:SER:HB2	2.06	0.56
7:5B:1530:ILE:HG22	7:5B:1574:ILE:HG21	1.87	0.56
2:AD:224:ASP:OD1	6:4C:132:LYS:CA	2.52	0.56
2:CD:177:ASP:C	1:CE:352:LYS:HA	2.31	0.56
2:DB:60:VAL:HG21	2:EB:281:TYR:CE1	2.41	0.56
2:FD:222:TYR:CD2	1:FE:247:ALA:HB1	2.41	0.56
2:FD:402:GLY:O	7:5A:1296:GLU:OE2	2.24	0.56
2:GD:372:THR:HA	2:GD:422:TYR:HE2	1.69	0.56
2:KB:228:LEU:HD23	6:4A:267:ILE:HD12	1.85	0.56
2:KF:273:LEU:N	6:4D:268:LEU:HD21	2.20	0.56
2:LD:178:THR:HA	1:LE:352:LYS:HD3	1.86	0.56
1:MA:222:PRO:CD	2:MB:324:LYS:HD3	2.36	0.56
1:ME:282:TYR:HD2	6:4B:104:ARG:NE	2.03	0.56
7:5A:1424:GLN:HE21	7:5A:1424:GLN:CA	2.18	0.56
7:5A:1471:ILE:HD12	7:5A:1471:ILE:N	2.18	0.56
7:5A:1560:ILE:HG22	7:5A:1566:GLU:OE2	2.05	0.56
7:5B:827:GLU:CD	7:5B:849:ARG:NH2	2.42	0.56
7:5B:1491:LEU:HD22	7:5B:1495:PHE:CD2	2.38	0.56
7:5C:1487:ASN:CA	7:5C:1568:LYS:HE2	2.24	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1533:GLU:CD	7:5C:1604:ALA:CB	2.78	0.56
10:8D:36:UNK:O	10:8D:37:UNK:CB	2.53	0.56
2:AD:276:ARG:HH12	6:4C:137:ASN:HB3	1.71	0.56
2:BF:222:TYR:O	2:BF:226:ASN:ND2	2.28	0.56
1:FC:207:GLU:CD	7:5A:915:PHE:HD2	2.14	0.56
1:FC:422:ARG:NE	7:5A:1170:THR:CB	2.61	0.56
1:IC:282:TYR:CZ	10:8W:15:UNK:O	2.56	0.56
1:JE:88:HIS:O	1:KE:280:LYS:HE2	2.05	0.56
6:4A:239:LEU:C	6:4A:241:LYS:H	2.14	0.56
6:4B:239:LEU:C	6:4B:241:LYS:H	2.14	0.56
7:5A:827:GLU:CD	7:5A:849:ARG:NH2	2.42	0.56
7:5A:1092:LYS:HA	7:5A:1095:GLU:HG3	1.88	0.56
7:5A:1530:ILE:HG22	7:5A:1574:ILE:HG21	1.87	0.56
7:5C:1092:LYS:HA	7:5C:1095:GLU:HG3	1.88	0.56
10:9A:36:UNK:O	10:9A:37:UNK:CB	2.53	0.56
2:AD:178:THR:HA	1:AE:352:LYS:HD3	1.86	0.56
2:EB:208:TYR:CD2	1:EC:326:LYS:HB3	2.41	0.56
1:EE:426:ALA:CB	7:5B:833:PHE:CG	2.89	0.56
2:FD:177:ASP:C	1:FE:352:LYS:HA	2.31	0.56
1:GC:101:ASN:ND2	2:GD:252:LYS:HG3	2.09	0.56
2:ID:220:PRO:CD	1:IE:326:LYS:HE2	2.35	0.56
1:IE:282:TYR:CD1	10:8X:15:UNK:HA	2.41	0.56
1:JC:101:ASN:ND2	2:JD:252:LYS:HG3	2.09	0.56
2:JD:86:ARG:HH22	2:KD:280:GLN:HB3	1.56	0.56
2:KB:178:THR:HA	1:KC:352:LYS:HD3	1.87	0.56
2:KB:228:LEU:CG	6:4A:267:ILE:HD12	2.36	0.56
2:LB:212:PHE:HE2	1:LC:326:LYS:HB2	1.70	0.56
2:MB:179:VAL:HG21	1:MC:258:ASN:C	2.28	0.56
6:4C:239:LEU:C	6:4C:241:LYS:H	2.14	0.56
6:4D:223:PHE:N	6:4D:223:PHE:CD2	2.73	0.56
6:4D:239:LEU:C	6:4D:241:LYS:H	2.14	0.56
7:5A:1533:GLU:CD	7:5A:1604:ALA:CB	2.78	0.56
7:5B:1092:LYS:HA	7:5B:1095:GLU:HG3	1.88	0.56
7:5B:1401:LYS:H	7:5B:1401:LYS:CD	2.03	0.56
7:5C:1560:ILE:HG22	7:5C:1566:GLU:OE2	2.05	0.56
10:8E:36:UNK:O	10:8E:37:UNK:CB	2.53	0.56
2:AB:222:TYR:CD2	1:AC:247:ALA:HB1	2.40	0.55
2:AD:279:GLN:O	6:4C:142:SER:HB3	2.06	0.55
2:AD:321:MET:C	6:4C:156:PHE:CE2	2.83	0.55
1:AE:100:ALA:HB1	2:AF:252:LYS:HA	1.88	0.55
1:BC:404:PHE:HE2	2:BD:345:ILE:HD12	1.70	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BD:177:ASP:OD2	1:BE:248:LEU:HD23	2.02	0.55
1:BE:404:PHE:CE2	2:BF:345:ILE:CD1	2.88	0.55
1:DE:100:ALA:HB1	2:DF:252:LYS:HA	1.88	0.55
2:EB:54:ALA:HB1	2:FB:281:TYR:O	2.05	0.55
1:GC:402:ARG:CD	5:3C:381:ASN:CG	2.78	0.55
2:GF:416:ASN:ND2	7:5B:1327:LYS:CE	2.68	0.55
1:HE:284:GLU:HG3	1:HE:286:LEU:HD22	1.88	0.55
2:KB:276:ARG:HE	6:4A:265:TYR:CB	1.98	0.55
2:LF:77:ARG:CZ	6:4D:204:ARG:NH2	2.61	0.55
4:2C:147:PHE:CD1	4:2C:147:PHE:C	2.84	0.55
6:4D:242:ARG:O	6:4D:247:LYS:CE	2.54	0.55
6:4D:273:ARG:HH21	6:4D:273:ARG:CG	2.20	0.55
7:5B:1424:GLN:HE21	7:5B:1424:GLN:CA	2.18	0.55
7:5B:1544:ILE:CD1	7:5B:1574:ILE:CG1	2.61	0.55
7:5C:1530:ILE:HG22	7:5C:1574:ILE:HG21	1.87	0.55
1:AA:176:GLN:O	2:AB:347:ASN:ND2	2.34	0.55
2:AF:280:GLN:NE2	6:4A:139:ASP:OD1	2.39	0.55
2:CB:177:ASP:OD2	1:CC:248:LEU:HD23	2.06	0.55
2:DB:25:SER:HG	2:DB:51:TYR:HH	1.53	0.55
1:EA:176:GLN:O	2:EB:347:ASN:ND2	2.37	0.55
1:EE:100:ALA:HB1	2:EF:252:LYS:CA	2.36	0.55
2:FB:388:MET:HA	1:FC:346:TRP:O	2.07	0.55
1:GA:284:GLU:HG3	1:GA:286:LEU:HD22	1.88	0.55
1:GC:241:SER:OG	1:GC:250:VAL:O	2.23	0.55
1:GE:89:PRO:HD3	1:HE:280:LYS:HZ2	1.68	0.55
1:GE:284:GLU:HG3	1:GE:286:LEU:HD22	1.88	0.55
1:HA:284:GLU:HG3	1:HA:286:LEU:HD22	1.88	0.55
1:HC:284:GLU:HG3	1:HC:286:LEU:HD22	1.88	0.55
1:HE:100:ALA:HB1	2:HF:252:LYS:HA	1.88	0.55
2:HF:309:ARG:NH2	2:HF:426:GLN:O	2.32	0.55
2:IB:87:PRO:CD	2:JB:281:TYR:CZ	2.89	0.55
1:JA:141:VAL:HG11	1:JA:172:TYR:CD1	2.38	0.55
2:LD:98:GLY:C	1:LE:254:GLU:HG2	2.31	0.55
1:LE:222:PRO:CG	2:LF:324:LYS:HD2	2.26	0.55
2:LF:379:LYS:NZ	4:2B:166:ILE:N	2.38	0.55
6:4A:273:ARG:HH21	6:4A:273:ARG:CG	2.20	0.55
6:4B:242:ARG:O	6:4B:247:LYS:CE	2.54	0.55
6:4B:273:ARG:HH21	6:4B:273:ARG:CG	2.20	0.55
7:5A:1246:LEU:CA	9:7B:12:GLU:CD	2.77	0.55
7:5A:1398:GLU:HB3	7:5A:1401:LYS:HE2	1.88	0.55
7:5B:1398:GLU:HB3	7:5B:1401:LYS:HE2	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1533:GLU:CD	7:5B:1604:ALA:CB	2.78	0.55
7:5C:827:GLU:CD	7:5C:849:ARG:NH2	2.42	0.55
2:AB:177:ASP:OD1	1:AC:353:VAL:HG12	1.84	0.55
2:BD:180:VAL:HG12	1:BE:258:ASN:OD1	2.06	0.55
2:CB:86:ARG:CA	2:DB:281:TYR:OH	2.54	0.55
1:FC:284:GLU:HG3	1:FC:286:LEU:HD22	1.88	0.55
1:FC:402:ARG:HD3	7:5A:1259:TYR:CG	2.38	0.55
1:FE:284:GLU:HG3	1:FE:286:LEU:HD22	1.89	0.55
2:GB:222:TYR:O	2:GB:226:ASN:ND2	2.27	0.55
1:GC:284:GLU:HG3	1:GC:286:LEU:HD22	1.89	0.55
2:JF:222:TYR:O	2:JF:226:ASN:ND2	2.28	0.55
1:KA:100:ALA:HB1	2:KB:252:LYS:HA	1.88	0.55
2:KB:125:GLU:O	4:2C:39:ALA:N	2.37	0.55
2:KB:220:PRO:CD	1:KC:326:LYS:HE2	2.35	0.55
2:LB:340:TYR:CD2	4:2C:147:PHE:HB3	2.41	0.55
1:MA:394:LYS:NZ	2:MB:347:ASN:OD1	2.39	0.55
4:2A:147:PHE:CD1	4:2A:147:PHE:C	2.84	0.55
4:2B:147:PHE:CD1	4:2B:147:PHE:C	2.84	0.55
6:4A:242:ARG:O	6:4A:247:LYS:CE	2.54	0.55
6:4C:242:ARG:O	6:4C:247:LYS:CE	2.54	0.55
6:4C:273:ARG:CG	6:4C:273:ARG:HH21	2.20	0.55
7:5A:1491:LEU:HD22	7:5A:1495:PHE:CD2	2.38	0.55
7:5C:1471:ILE:HD12	7:5C:1471:ILE:N	2.18	0.55
2:BD:86:ARG:HA	2:CD:281:TYR:HH	1.71	0.55
2:BD:178:THR:HA	1:BE:352:LYS:HD3	1.88	0.55
1:DA:284:GLU:HG3	1:DA:286:LEU:HD22	1.88	0.55
1:FA:284:GLU:HG3	1:FA:286:LEU:HD22	1.88	0.55
2:HB:178:THR:HA	1:HC:352:LYS:HD3	1.87	0.55
2:HD:220:PRO:CD	1:HE:326:LYS:HE2	2.35	0.55
1:HE:278:ALA:C	10:8U:22:UNK:CB	2.79	0.55
1:IE:284:GLU:HG3	1:IE:286:LEU:HD22	1.88	0.55
2:JF:25:SER:HG	2:JF:51:TYR:HH	1.53	0.55
2:KB:87:PRO:CG	2:LB:282:ARG:HD2	2.35	0.55
1:LA:284:GLU:HG3	1:LA:286:LEU:HD22	1.89	0.55
1:LC:222:PRO:CG	2:LD:324:LYS:HD2	2.26	0.55
1:LC:284:GLU:HG3	1:LC:286:LEU:HD22	1.89	0.55
1:LE:60:LYS:HZ2	1:ME:283:HIS:CE1	2.25	0.55
1:LE:284:GLU:HG3	1:LE:286:LEU:HD22	1.89	0.55
2:LF:221:THR:HG23	6:4D:219:ASN:ND2	2.21	0.55
6:4A:223:PHE:CE2	6:4A:230:TYR:HB3	2.42	0.55
7:5A:1562:LEU:HD13	7:5A:1562:LEU:O	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1119:LEU:HD13	7:5B:1135:TYR:CD1	2.41	0.55
7:5B:1152:GLU:CD	8:6B:66:ARG:NH2	2.64	0.55
7:5B:1562:LEU:HD13	7:5B:1562:LEU:O	2.07	0.55
7:5C:1416:LYS:CA	7:5C:1416:LYS:CE	2.85	0.55
7:5C:1562:LEU:HD13	7:5C:1562:LEU:O	2.07	0.55
10:8W:36:UNK:O	10:8W:37:UNK:CB	2.53	0.55
1:AA:100:ALA:HB1	2:AB:252:LYS:HA	1.88	0.55
1:AA:241:SER:OG	1:AA:250:VAL:O	2.23	0.55
2:AF:217:LEU:HD22	6:4A:132:LYS:CD	2.35	0.55
2:CD:42:LEU:HA	2:CD:45:GLU:HG3	1.88	0.55
2:CF:309:ARG:NH2	2:CF:426:GLN:O	2.32	0.55
2:ED:391:ARG:HG3	1:EE:346:TRP:CD1	2.40	0.55
1:FC:419:SER:HB3	7:5A:1256:ARG:CG	2.34	0.55
1:GA:100:ALA:HB1	2:GB:252:LYS:HA	1.88	0.55
1:GC:89:PRO:HD3	1:HC:280:LYS:HZ1	1.63	0.55
1:IA:404:PHE:CE2	2:IB:345:ILE:CD1	2.89	0.55
1:JA:88:HIS:CE1	1:KA:280:LYS:C	2.77	0.55
2:JB:178:THR:HA	1:JC:352:LYS:HD3	1.87	0.55
2:JB:222:TYR:CD2	1:JC:247:ALA:HB1	2.40	0.55
1:JE:88:HIS:O	1:KE:280:LYS:NZ	2.39	0.55
1:JE:284:GLU:HG3	1:JE:286:LEU:HD22	1.88	0.55
1:KC:85:GLN:CA	1:LC:283:HIS:CA	2.51	0.55
1:LC:101:ASN:ND2	2:LD:252:LYS:CG	2.70	0.55
2:LD:379:LYS:HE3	4:2A:166:ILE:HG13	1.88	0.55
1:LE:178:SER:OG	2:LF:347:ASN:CB	2.48	0.55
1:MC:222:PRO:O	2:MD:322:SER:HB2	2.07	0.55
2:MD:221:THR:HG21	6:4B:189:ARG:HH22	0.52	0.55
6:4A:256:ASN:HD21	6:4A:260:ARG:CZ	2.20	0.55
6:4B:223:PHE:CE2	6:4B:230:TYR:HB3	2.42	0.55
6:4C:223:PHE:CE2	6:4C:230:TYR:HB3	2.42	0.55
6:4C:256:ASN:HD21	6:4C:260:ARG:CZ	2.20	0.55
7:5A:1416:LYS:CA	7:5A:1416:LYS:CE	2.85	0.55
7:5B:1552:LYS:NZ	7:5B:1563:SER:H	2.04	0.55
7:5C:842:LEU:H	7:5C:842:LEU:CD2	2.08	0.55
7:5C:1398:GLU:HB3	7:5C:1401:LYS:HE2	1.89	0.55
9:7E:38:LEU:HD23	9:7F:42:LEU:CD1	2.23	0.55
10:8V:36:UNK:O	10:8V:37:UNK:CB	2.53	0.55
2:CB:42:LEU:HA	2:CB:45:GLU:HG3	1.88	0.55
1:CC:284:GLU:HG3	1:CC:286:LEU:HD22	1.88	0.55
1:CE:284:GLU:HG3	1:CE:286:LEU:HD22	1.89	0.55
2:CF:42:LEU:HA	2:CF:45:GLU:HG3	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DC:284:GLU:HG3	1:DC:286:LEU:HD22	1.89	0.55
2:ED:42:LEU:HA	2:ED:45:GLU:HG3	1.88	0.55
2:ED:176:SER:OG	1:EE:349:THR:OG1	2.19	0.55
2:ED:390:ARG:HD2	1:EE:439:THR:HG21	1.89	0.55
2:ED:397:TRP:CB	1:EE:256:GLN:HE22	2.13	0.55
2:EF:54:ALA:CB	2:FF:281:TYR:O	2.54	0.55
1:FA:404:PHE:CE2	2:FB:345:ILE:HD11	2.42	0.55
2:FD:106:TYR:CD1	7:5A:1295:LYS:N	2.74	0.55
1:FE:423:GLU:HG3	7:5B:1256:ARG:NH2	2.21	0.55
2:GD:416:ASN:CG	7:5A:1327:LYS:NZ	2.64	0.55
2:IB:424:GLN:HE21	7:5C:1413:GLN:CG	2.19	0.55
1:IC:389:SER:CB	5:3C:307:LYS:HB3	2.36	0.55
1:JE:88:HIS:C	1:KE:280:LYS:HE2	2.26	0.55
1:JE:90:GLU:C	1:KE:280:LYS:HZ1	2.10	0.55
1:KA:284:GLU:HG3	1:KA:286:LEU:HD22	1.89	0.55
2:KF:125:GLU:CD	2:LF:332:ASN:HD22	2.14	0.55
2:LB:227:HIS:CE1	6:4A:226:ILE:CG1	2.88	0.55
1:MA:241:SER:OG	1:MA:250:VAL:O	2.23	0.55
6:4A:114:GLU:HA	6:4A:117:ARG:HD2	1.89	0.55
6:4B:114:GLU:HA	6:4B:117:ARG:HD2	1.89	0.55
6:4C:114:GLU:HA	6:4C:117:ARG:HD2	1.89	0.55
6:4C:278:TYR:N	6:4C:278:TYR:HD1	2.04	0.55
7:5A:1552:LYS:NZ	7:5A:1563:SER:H	2.04	0.55
7:5C:1552:LYS:NZ	7:5C:1563:SER:H	2.04	0.55
2:BB:86:ARG:CA	2:CB:281:TYR:HE1	2.20	0.55
1:DE:284:GLU:HG3	1:DE:286:LEU:HD22	1.89	0.55
2:EB:42:LEU:HA	2:EB:45:GLU:HG3	1.88	0.55
1:FA:419:SER:CB	7:5C:1256:ARG:CG	2.84	0.55
1:FC:402:ARG:HD2	7:5A:1259:TYR:HD2	1.69	0.55
1:FE:207:GLU:CD	7:5B:915:PHE:HD2	2.15	0.55
1:FE:419:SER:C	7:5B:1256:ARG:HH21	2.14	0.55
2:GD:86:ARG:NH2	2:HD:281:TYR:CZ	2.61	0.55
2:IB:87:PRO:CD	2:JB:281:TYR:CE2	2.90	0.55
1:IC:284:GLU:HG3	1:IC:286:LEU:HD22	1.89	0.55
2:KB:79:GLY:HA2	6:4A:254:ALA:HB1	1.89	0.55
2:KD:54:ALA:CA	2:LD:285:THR:HG21	2.32	0.55
2:LB:58:ARG:NH2	2:MB:281:TYR:CZ	2.74	0.55
2:LD:223:GLY:CA	6:4B:219:ASN:ND2	2.70	0.55
1:ME:284:GLU:HG3	1:ME:286:LEU:HD22	1.89	0.55
5:3C:230:ILE:HG22	5:3C:332:MET:CG	2.36	0.55
6:4B:256:ASN:HD21	6:4B:260:ARG:CZ	2.20	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4D:114:GLU:HA	6:4D:117:ARG:HD2	1.89	0.55
7:5A:1119:LEU:HD13	7:5A:1135:TYR:CD1	2.41	0.55
7:5B:1105:TYR:HB3	7:5B:1166:LEU:CB	2.37	0.55
7:5B:1416:LYS:CA	7:5B:1416:LYS:CE	2.85	0.55
2:AB:42:LEU:HA	2:AB:45:GLU:HG3	1.88	0.55
2:AB:212:PHE:HZ	1:AC:326:LYS:CE	2.14	0.55
1:AE:283:HIS:CB	2:MB:86:ARG:NH1	2.59	0.55
1:BA:222:PRO:HD2	2:BB:324:LYS:HD3	1.88	0.55
2:BB:42:LEU:HA	2:BB:45:GLU:HG3	1.89	0.55
2:BD:42:LEU:HA	2:BD:45:GLU:HG3	1.89	0.55
2:BF:42:LEU:HA	2:BF:45:GLU:HG3	1.89	0.55
1:CA:284:GLU:HG3	1:CA:286:LEU:HD22	1.88	0.55
1:CA:404:PHE:CE2	2:CB:345:ILE:CD1	2.89	0.55
1:CE:141:VAL:HG11	1:CE:172:TYR:CD1	2.38	0.55
2:DF:114:ASP:OD1	2:DF:115:SER:N	2.40	0.55
2:DF:207:LEU:HB3	2:DF:225:LEU:HD22	1.89	0.55
1:EE:282:TYR:CD2	10:8L:18:UNK:CB	2.86	0.55
2:EF:83:GLN:O	2:FF:281:TYR:OH	2.14	0.55
2:FD:55:THR:H	2:GD:283:ALA:HB2	1.45	0.55
2:GD:220:PRO:CD	1:GE:326:LYS:HE2	2.35	0.55
1:HA:404:PHE:CE2	2:HB:345:ILE:CD1	2.89	0.55
2:HD:309:ARG:NH2	2:HD:426:GLN:O	2.32	0.55
1:IA:176:GLN:O	2:IB:347:ASN:ND2	2.34	0.55
1:IA:284:GLU:HG3	1:IA:286:LEU:HD22	1.88	0.55
1:JC:284:GLU:HG3	1:JC:286:LEU:HD22	1.89	0.55
1:KC:284:GLU:HG3	1:KC:286:LEU:HD22	1.88	0.55
1:MC:241:SER:OG	1:MC:250:VAL:O	2.23	0.55
1:ME:222:PRO:O	2:MF:322:SER:HB2	2.07	0.55
6:4A:278:TYR:N	6:4A:278:TYR:HD1	2.04	0.55
6:4D:223:PHE:CE2	6:4D:230:TYR:HB3	2.42	0.55
7:5A:1105:TYR:HB3	7:5A:1166:LEU:CB	2.37	0.55
7:5C:1119:LEU:HD13	7:5C:1135:TYR:CD1	2.41	0.55
7:5C:1491:LEU:HD22	7:5C:1495:PHE:CD2	2.38	0.55
1:AA:404:PHE:CE2	2:AB:345:ILE:CD1	2.89	0.55
2:AB:178:THR:HA	1:AC:352:LYS:HD3	1.87	0.55
2:AD:42:LEU:HA	2:AD:45:GLU:HG3	1.89	0.55
2:CB:114:ASP:OD1	2:CB:115:SER:N	2.40	0.55
2:CB:207:LEU:HB3	2:CB:225:LEU:HD22	1.89	0.55
1:CC:60:LYS:NZ	1:DC:283:HIS:CE1	2.71	0.55
2:CD:114:ASP:OD1	2:CD:115:SER:N	2.40	0.55
2:CD:309:ARG:NH2	2:CD:426:GLN:O	2.32	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:114:ASP:OD1	2:CF:115:SER:N	2.40	0.55
2:CF:207:LEU:HB3	2:CF:225:LEU:HD22	1.89	0.55
2:DB:114:ASP:OD1	2:DB:115:SER:N	2.40	0.55
2:DF:42:LEU:HA	2:DF:45:GLU:HG3	1.89	0.55
1:EA:396:ASP:C	7:5C:817:LEU:HD21	2.32	0.55
1:EC:222:PRO:HD2	2:ED:324:LYS:HD3	1.87	0.55
1:FE:402:ARG:HH11	7:5B:1259:TYR:HD2	1.53	0.55
2:FF:332:ASN:CB	7:5B:909:ASN:HD21	2.20	0.55
1:GA:404:PHE:CE2	2:GB:345:ILE:CD1	2.89	0.55
2:HB:114:ASP:OD1	2:HB:115:SER:N	2.40	0.55
2:HD:114:ASP:OD1	2:HD:115:SER:N	2.40	0.55
2:HF:114:ASP:OD1	2:HF:115:SER:N	2.40	0.55
1:JA:404:PHE:CE2	2:JB:345:ILE:CD1	2.89	0.55
2:JD:25:SER:HG	2:JD:51:TYR:HH	1.54	0.55
2:LB:42:LEU:HA	2:LB:45:GLU:HG3	1.88	0.55
2:LB:306:ARG:HH21	4:2C:149:ILE:HG23	1.72	0.55
2:LD:379:LYS:HZ1	4:2A:166:ILE:CB	2.20	0.55
1:MC:284:GLU:HG3	1:MC:286:LEU:HD22	1.88	0.55
6:4D:256:ASN:HD21	6:4D:260:ARG:CZ	2.20	0.55
6:4D:300:SER:O	6:4D:300:SER:OG	2.24	0.55
7:5B:818:ARG:HG2	7:5B:822:MET:HE3	1.89	0.55
7:5B:1548:VAL:HG11	7:5B:1566:GLU:N	2.22	0.55
10:8S:36:UNK:O	10:8S:37:UNK:CB	2.53	0.55
1:AC:241:SER:OG	1:AC:250:VAL:O	2.23	0.55
1:BA:100:ALA:HB1	2:BB:252:LYS:HA	1.89	0.55
2:BB:280:GLN:NE2	10:8B:1:UNK:O	2.40	0.55
1:CA:100:ALA:HB1	2:CB:252:LYS:HA	1.89	0.55
2:CD:86:ARG:CG	2:DD:281:TYR:CE1	2.41	0.55
2:CD:207:LEU:HB3	2:CD:225:LEU:HD22	1.89	0.55
1:DA:128:ASN:ND2	1:EA:285:GLN:NE2	2.54	0.55
2:DD:42:LEU:HA	2:DD:45:GLU:HG3	1.89	0.55
2:DD:114:ASP:OD1	2:DD:115:SER:N	2.40	0.55
2:DD:207:LEU:HB3	2:DD:225:LEU:HD22	1.89	0.55
2:ED:114:ASP:OD1	2:ED:115:SER:N	2.40	0.55
2:EF:42:LEU:HA	2:EF:45:GLU:HG3	1.88	0.55
2:EF:114:ASP:OD1	2:EF:115:SER:N	2.40	0.55
1:GA:176:GLN:O	2:GB:347:ASN:ND2	2.34	0.55
2:GB:42:LEU:HA	2:GB:45:GLU:HG3	1.88	0.55
1:GC:176:GLN:O	2:GD:347:ASN:ND2	2.35	0.55
2:ID:424:GLN:HE21	7:5A:1413:GLN:CG	2.19	0.55
2:JB:114:ASP:OD1	2:JB:115:SER:N	2.40	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:100:ALA:HB1	2:JF:252:LYS:HA	1.88	0.55
2:KD:77:ARG:HG3	2:LD:281:TYR:CE1	2.38	0.55
1:KE:284:GLU:HG3	1:KE:286:LEU:HD22	1.88	0.55
2:KF:273:LEU:HG	6:4D:268:LEU:HD21	1.88	0.55
2:LD:42:LEU:HA	2:LD:45:GLU:HG3	1.88	0.55
2:LD:58:ARG:NH2	2:MD:281:TYR:CZ	2.75	0.55
1:ME:241:SER:OG	1:ME:250:VAL:O	2.23	0.55
2:MF:218:THR:OG1	6:4D:196:GLN:NE2	2.37	0.55
5:3A:230:ILE:HG22	5:3A:332:MET:CG	2.36	0.55
5:3B:230:ILE:HG22	5:3B:332:MET:CG	2.36	0.55
7:5A:818:ARG:HG2	7:5A:822:MET:HE3	1.89	0.55
7:5A:839:GLU:CD	8:6A:109:ILE:HG13	2.32	0.55
7:5A:1401:LYS:H	7:5A:1401:LYS:CD	2.03	0.55
7:5C:1105:TYR:HB3	7:5C:1166:LEU:CB	2.37	0.55
10:8X:36:UNK:O	10:8X:37:UNK:CB	2.53	0.55
1:AE:101:ASN:ND2	2:AF:252:LYS:HG3	2.14	0.54
2:AF:42:LEU:HA	2:AF:45:GLU:HG3	1.89	0.54
2:AF:320:ARG:HH12	6:4A:152:PHE:C	2.15	0.54
2:BB:114:ASP:OD1	2:BB:115:SER:N	2.40	0.54
2:BB:127:CYS:SG	2:BB:130:LEU:HD13	2.48	0.54
1:BE:401:LYS:CE	2:BF:344:TRP:CZ3	2.70	0.54
2:CB:100:ASN:HB2	1:CC:257:THR:HG21	1.89	0.54
2:CD:397:TRP:HE3	1:CE:257:THR:CG2	2.00	0.54
2:DB:207:LEU:HB3	2:DB:225:LEU:HD22	1.89	0.54
1:DE:402:ARG:CD	7:5B:777:ALA:HB2	2.33	0.54
2:FF:114:ASP:OD1	2:FF:115:SER:N	2.40	0.54
2:GD:42:LEU:HA	2:GD:45:GLU:HG3	1.89	0.54
2:GF:42:LEU:HA	2:GF:45:GLU:HG3	1.89	0.54
1:IE:100:ALA:HB1	2:IF:252:LYS:HA	1.88	0.54
2:KF:127:CYS:SG	2:KF:130:LEU:HD13	2.48	0.54
1:LA:221:ARG:NH2	2:LB:321:MET:O	2.38	0.54
2:LB:397:TRP:CB	1:LC:256:GLN:HE22	2.16	0.54
2:LD:127:CYS:SG	2:LD:130:LEU:HD13	2.48	0.54
1:LE:89:PRO:N	1:ME:280:LYS:HZ2	2.05	0.54
2:LF:42:LEU:HA	2:LF:45:GLU:HG3	1.88	0.54
2:LF:127:CYS:SG	2:LF:130:LEU:HD13	2.48	0.54
1:MA:279:GLU:O	6:4C:107:MET:SD	2.40	0.54
1:MA:284:GLU:HG3	1:MA:286:LEU:HD22	1.88	0.54
2:MB:114:ASP:OD1	2:MB:115:SER:N	2.40	0.54
2:MD:42:LEU:HA	2:MD:45:GLU:HG3	1.88	0.54
2:MD:114:ASP:OD1	2:MD:115:SER:N	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4A:167:ARG:HB3	6:4A:167:ARG:NH1	2.22	0.54
6:4B:167:ARG:NH1	6:4B:167:ARG:HB3	2.22	0.54
6:4B:278:TYR:N	6:4B:278:TYR:HD1	2.04	0.54
6:4B:300:SER:O	6:4B:300:SER:OG	2.24	0.54
6:4D:167:ARG:NH1	6:4D:167:ARG:HB3	2.22	0.54
7:5A:1548:VAL:HG11	7:5A:1566:GLU:N	2.22	0.54
7:5C:818:ARG:HG2	7:5C:822:MET:HE3	1.89	0.54
10:8Q:36:UNK:O	10:8Q:37:UNK:CB	2.53	0.54
2:AD:127:CYS:SG	2:AD:130:LEU:HD13	2.48	0.54
2:AD:227:HIS:HD1	6:4C:135:LEU:HD11	1.68	0.54
1:AE:241:SER:OG	1:AE:250:VAL:O	2.23	0.54
2:AF:127:CYS:SG	2:AF:130:LEU:HD13	2.48	0.54
2:BB:85:PHE:O	2:CB:281:TYR:OH	2.23	0.54
1:CC:141:VAL:HG11	1:CC:172:TYR:CD1	2.38	0.54
1:CC:401:LYS:HE3	2:CD:344:TRP:CZ3	2.42	0.54
2:CF:127:CYS:SG	2:CF:130:LEU:HD13	2.48	0.54
2:DD:60:VAL:CG2	2:ED:281:TYR:CE1	2.89	0.54
1:EA:284:GLU:HG3	1:EA:286:LEU:HD22	1.88	0.54
2:EB:114:ASP:OD1	2:EB:115:SER:N	2.40	0.54
1:EC:284:GLU:HG3	1:EC:286:LEU:HD22	1.88	0.54
2:ED:212:PHE:CZ	1:EE:326:LYS:CE	2.89	0.54
1:FA:179:THR:O	2:FB:350:LYS:HA	2.07	0.54
2:FB:42:LEU:HA	2:FB:45:GLU:HG3	1.88	0.54
2:FB:55:THR:CA	2:GB:283:ALA:HA	2.37	0.54
2:FB:179:VAL:HG12	1:FC:350:GLY:C	2.33	0.54
2:FB:332:ASN:HB2	7:5C:909:ASN:OD1	2.07	0.54
2:FD:114:ASP:OD1	2:FD:115:SER:N	2.40	0.54
1:HA:60:LYS:HD3	1:IA:283:HIS:CD2	2.42	0.54
1:HC:404:PHE:HE2	2:HD:345:ILE:HD12	1.73	0.54
1:HC:410:GLY:CA	5:3C:329:ARG:NH2	2.70	0.54
2:HF:207:LEU:HB3	2:HF:225:LEU:HD22	1.89	0.54
1:JA:284:GLU:HG3	1:JA:286:LEU:HD22	1.89	0.54
2:KB:158:GLU:CA	4:2C:34:ASN:HB3	1.78	0.54
2:KD:127:CYS:SG	2:KD:130:LEU:HD13	2.48	0.54
1:KE:245:ASP:OD2	6:4B:257:LEU:CD1	2.56	0.54
2:KF:82:GLY:O	2:LF:281:TYR:CE1	2.59	0.54
2:KF:114:ASP:OD1	2:KF:115:SER:N	2.40	0.54
1:MA:401:LYS:CE	2:MB:344:TRP:CZ3	2.66	0.54
2:MB:42:LEU:HA	2:MB:45:GLU:HG3	1.88	0.54
2:MD:127:CYS:SG	2:MD:130:LEU:HD13	2.48	0.54
2:MF:114:ASP:OD1	2:MF:115:SER:N	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2C:16:GLN:HA	4:2C:19:MET:HB2	0.58	0.54
6:4A:167:ARG:CZ	6:4A:167:ARG:CB	2.85	0.54
6:4B:167:ARG:CZ	6:4B:167:ARG:CB	2.85	0.54
6:4C:167:ARG:CZ	6:4C:167:ARG:CB	2.85	0.54
6:4C:167:ARG:NH1	6:4C:167:ARG:HB3	2.22	0.54
6:4C:273:ARG:HG3	6:4C:273:ARG:NH2	2.22	0.54
6:4D:167:ARG:CZ	6:4D:167:ARG:CB	2.85	0.54
7:5A:1544:ILE:CD1	7:5A:1574:ILE:CG1	2.61	0.54
7:5B:1399:LYS:HZ1	7:5B:1399:LYS:HB3	1.72	0.54
7:5B:1521:PHE:CA	7:5B:1567:PHE:HE2	2.10	0.54
10:8T:36:UNK:O	10:8T:37:UNK:CB	2.53	0.54
2:AB:55:THR:CG2	2:BB:283:ALA:CA	2.66	0.54
1:BA:101:ASN:ND2	2:BB:252:LYS:HG3	2.14	0.54
2:BD:114:ASP:OD1	2:BD:115:SER:N	2.40	0.54
2:BF:114:ASP:OD1	2:BF:115:SER:N	2.40	0.54
2:CB:309:ARG:NH2	2:CB:426:GLN:O	2.32	0.54
2:DB:42:LEU:HA	2:DB:45:GLU:HG3	1.89	0.54
1:DC:401:LYS:HE3	2:DD:344:TRP:CZ3	2.43	0.54
2:DD:180:VAL:HG12	1:DE:258:ASN:OD1	2.07	0.54
2:DD:222:TYR:HD2	1:DE:247:ALA:HB1	1.72	0.54
1:FC:100:ALA:HB1	2:FD:252:LYS:CA	2.37	0.54
2:FF:55:THR:CB	2:GF:283:ALA:HA	2.36	0.54
2:FF:127:CYS:SG	2:FF:130:LEU:HD13	2.48	0.54
2:HD:207:LEU:HB3	2:HD:225:LEU:HD22	1.89	0.54
2:JD:114:ASP:OD1	2:JD:115:SER:N	2.40	0.54
2:JF:114:ASP:OD1	2:JF:115:SER:N	2.40	0.54
1:KA:404:PHE:CE2	2:KB:345:ILE:CD1	2.88	0.54
2:KB:114:ASP:OD1	2:KB:115:SER:N	2.40	0.54
2:KD:114:ASP:OD1	2:KD:115:SER:N	2.40	0.54
2:KD:207:LEU:HB3	2:KD:225:LEU:HD22	1.89	0.54
2:KD:220:PRO:CD	1:KE:326:LYS:HE2	2.35	0.54
2:KF:54:ALA:CA	2:LF:285:THR:HG21	2.36	0.54
2:KF:207:LEU:HB3	2:KF:225:LEU:HD22	1.89	0.54
2:LB:127:CYS:SG	2:LB:130:LEU:HD13	2.48	0.54
2:LD:77:ARG:CZ	6:4B:204:ARG:NH2	2.59	0.54
2:LF:207:LEU:HB3	2:LF:225:LEU:HD22	1.89	0.54
2:MD:221:THR:HB	6:4B:189:ARG:HH12	1.72	0.54
2:MF:42:LEU:HA	2:MF:45:GLU:HG3	1.89	0.54
2:MF:127:CYS:SG	2:MF:130:LEU:HD13	2.48	0.54
6:4A:273:ARG:HG3	6:4A:273:ARG:NH2	2.22	0.54
6:4B:223:PHE:N	6:4B:223:PHE:CD2	2.73	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4D:278:TYR:CD1	6:4D:278:TYR:N	2.72	0.54
6:4D:278:TYR:N	6:4D:278:TYR:HD1	2.04	0.54
7:5A:1399:LYS:HB3	7:5A:1399:LYS:HZ2	1.72	0.54
7:5B:842:LEU:HD22	7:5B:842:LEU:N	2.02	0.54
7:5B:1384:GLN:N	7:5B:1384:GLN:HE21	2.05	0.54
7:5C:841:VAL:N	8:6C:109:ILE:HD11	1.62	0.54
10:8P:36:UNK:O	10:8P:37:UNK:CB	2.53	0.54
2:AB:127:CYS:SG	2:AB:130:LEU:HD13	2.48	0.54
1:AC:404:PHE:HE2	2:AD:345:ILE:HD12	1.73	0.54
2:BB:86:ARG:HA	2:CB:281:TYR:HE1	1.66	0.54
2:BB:86:ARG:HA	2:CB:281:TYR:HH	1.71	0.54
2:BD:127:CYS:SG	2:BD:130:LEU:HD13	2.48	0.54
1:CA:184:PRO:O	1:CA:188:ILE:HG12	2.08	0.54
2:CB:394:PHE:CD1	1:CC:261:PRO:HA	2.43	0.54
13:CB:501:GDP:C8	1:CC:248:LEU:CD1	2.90	0.54
1:DC:402:ARG:NE	7:5A:777:ALA:HB1	2.09	0.54
1:EA:396:ASP:HB3	7:5C:817:LEU:HD21	0.60	0.54
2:EB:127:CYS:SG	2:EB:130:LEU:HD13	2.48	0.54
2:ED:127:CYS:SG	2:ED:130:LEU:HD13	2.48	0.54
2:ED:177:ASP:OD2	1:EE:248:LEU:HD23	2.07	0.54
2:EF:157:GLU:OE1	7:5B:935:LYS:NZ	2.40	0.54
2:EF:207:LEU:HB3	2:EF:225:LEU:HD22	1.89	0.54
2:FD:42:LEU:HA	2:FD:45:GLU:HG3	1.89	0.54
2:FD:127:CYS:SG	2:FD:130:LEU:HD13	2.48	0.54
1:FE:419:SER:HB2	7:5B:1256:ARG:CZ	2.24	0.54
2:GB:409:THR:O	7:5C:1330:ILE:HD13	2.07	0.54
2:GD:222:TYR:O	2:GD:226:ASN:ND2	2.27	0.54
1:HA:188:ILE:HD12	1:HA:425:LEU:HD11	1.90	0.54
2:HB:207:LEU:HB3	2:HB:225:LEU:HD22	1.89	0.54
2:IB:25:SER:HG	2:IB:51:TYR:HH	1.54	0.54
1:IE:241:SER:OG	1:IE:250:VAL:O	2.23	0.54
2:JB:207:LEU:HB3	2:JB:225:LEU:HD22	1.89	0.54
2:JD:207:LEU:HB3	2:JD:225:LEU:HD22	1.89	0.54
2:JF:207:LEU:HB3	2:JF:225:LEU:HD22	1.89	0.54
2:KB:207:LEU:HB3	2:KB:225:LEU:HD22	1.89	0.54
2:KD:42:LEU:HA	2:KD:45:GLU:HG3	1.88	0.54
2:KD:179:VAL:HG22	1:KE:258:ASN:CG	2.33	0.54
2:LF:55:THR:CG2	2:MF:284:LEU:H	2.15	0.54
2:LF:227:HIS:HD1	6:4D:226:ILE:HG13	1.70	0.54
1:MA:184:PRO:O	1:MA:188:ILE:HG12	2.08	0.54
2:MB:127:CYS:SG	2:MB:130:LEU:HD13	2.48	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ME:184:PRO:O	1:ME:188:ILE:HG12	2.07	0.54
6:4B:278:TYR:N	6:4B:278:TYR:CD1	2.72	0.54
7:5A:842:LEU:HD22	7:5A:842:LEU:N	2.02	0.54
7:5A:1384:GLN:N	7:5A:1384:GLN:HE21	2.05	0.54
7:5B:1119:LEU:HD23	7:5B:1132:LYS:HG3	1.87	0.54
1:BE:284:GLU:HG3	1:BE:286:LEU:HD22	1.88	0.54
1:CA:141:VAL:HG11	1:CA:172:TYR:CD1	2.38	0.54
2:CD:127:CYS:SG	2:CD:130:LEU:HD13	2.48	0.54
1:CE:222:PRO:CG	2:CF:324:LYS:CD	2.84	0.54
1:DA:184:PRO:O	1:DA:188:ILE:HG12	2.08	0.54
2:DD:397:TRP:CB	1:DE:256:GLN:HE22	2.17	0.54
1:EC:393:HIS:HE1	7:5A:814:LYS:HG3	1.68	0.54
2:ED:207:LEU:HB3	2:ED:225:LEU:HD22	1.89	0.54
2:EF:127:CYS:SG	2:EF:130:LEU:HD13	2.48	0.54
2:FB:114:ASP:OD1	2:FB:115:SER:N	2.40	0.54
2:FB:127:CYS:SG	2:FB:130:LEU:HD13	2.48	0.54
1:FC:422:ARG:HE	7:5A:1170:THR:CB	2.11	0.54
1:GA:184:PRO:O	1:GA:188:ILE:HG12	2.08	0.54
1:HC:188:ILE:HD12	1:HC:425:LEU:HD11	1.90	0.54
2:HD:42:LEU:HA	2:HD:45:GLU:HG3	1.89	0.54
2:IB:207:LEU:HB3	2:IB:225:LEU:HD22	1.89	0.54
1:JA:90:GLU:HG2	1:KA:280:LYS:CD	2.35	0.54
1:JA:100:ALA:HB1	2:JB:252:LYS:HA	1.88	0.54
1:KA:85:GLN:O	1:LA:283:HIS:HA	2.05	0.54
1:KA:241:SER:OG	1:KA:250:VAL:O	2.23	0.54
2:KB:42:LEU:HA	2:KB:45:GLU:HG3	1.89	0.54
2:KB:127:CYS:SG	2:KB:130:LEU:HD13	2.48	0.54
2:KB:159:TYR:CE2	4:2C:35:VAL:C	2.80	0.54
2:KB:222:TYR:O	2:KB:226:ASN:ND2	2.27	0.54
2:KF:125:GLU:CG	2:LF:336:LYS:HZ3	2.05	0.54
2:KF:125:GLU:CB	2:LF:336:LYS:CE	2.85	0.54
2:LD:207:LEU:HB3	2:LD:225:LEU:HD22	1.89	0.54
1:MC:184:PRO:O	1:MC:188:ILE:HG12	2.08	0.54
1:ME:279:GLU:HB2	6:4B:110:LYS:CE	2.35	0.54
4:2A:16:GLN:HA	4:2A:19:MET:HB2	0.58	0.54
6:4A:278:TYR:N	6:4A:278:TYR:CD1	2.72	0.54
6:4A:300:SER:O	6:4A:300:SER:OG	2.24	0.54
7:5A:1521:PHE:CA	7:5A:1567:PHE:HE2	2.10	0.54
7:5C:1131:PHE:CE1	8:6C:253:PHE:HE1	2.25	0.54
1:AC:176:GLN:O	2:AD:347:ASN:ND2	2.35	0.54
2:AD:179:VAL:HG22	1:AE:258:ASN:CG	2.33	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:284:GLU:HG3	1:AE:286:LEU:HD22	1.88	0.54
1:BA:184:PRO:O	1:BA:188:ILE:HG12	2.08	0.54
1:BA:241:SER:OG	1:BA:250:VAL:O	2.23	0.54
2:BB:207:LEU:HB3	2:BB:225:LEU:HD22	1.89	0.54
2:BF:127:CYS:SG	2:BF:130:LEU:HD13	2.48	0.54
1:CC:184:PRO:O	1:CC:188:ILE:HG12	2.08	0.54
2:CD:222:TYR:CD2	1:CE:247:ALA:HB1	2.42	0.54
1:CE:100:ALA:HB1	2:CF:252:LYS:HA	1.88	0.54
1:CE:184:PRO:O	1:CE:188:ILE:HG12	2.08	0.54
2:CF:86:ARG:HB2	2:DF:281:TYR:HE1	1.69	0.54
1:DC:184:PRO:O	1:DC:188:ILE:HG12	2.08	0.54
1:DE:184:PRO:O	1:DE:188:ILE:HG12	2.08	0.54
1:EE:284:GLU:HG3	1:EE:286:LEU:HD22	1.88	0.54
2:FD:55:THR:N	2:GD:283:ALA:HA	2.19	0.54
2:GB:55:THR:HG1	2:HB:283:ALA:HA	1.73	0.54
1:GC:184:PRO:O	1:GC:188:ILE:HG12	2.08	0.54
2:HB:42:LEU:HA	2:HB:45:GLU:HG3	1.88	0.54
1:HE:188:ILE:HD12	1:HE:425:LEU:HD11	1.90	0.54
1:IA:100:ALA:HB1	2:IB:252:LYS:HA	1.88	0.54
1:IA:188:ILE:HD12	1:IA:425:LEU:HD11	1.90	0.54
2:ID:207:LEU:HB3	2:ID:225:LEU:HD22	1.89	0.54
1:IE:188:ILE:HD12	1:IE:425:LEU:HD11	1.90	0.54
2:LB:207:LEU:HB3	2:LB:225:LEU:HD22	1.89	0.54
2:LB:222:TYR:O	2:LB:226:ASN:ND2	2.28	0.54
2:MB:220:PRO:O	1:MC:324:VAL:HG11	2.08	0.54
4:2B:16:GLN:HA	4:2B:19:MET:HB2	0.58	0.54
6:4A:223:PHE:N	6:4A:223:PHE:CD2	2.73	0.54
6:4B:101:ARG:NH2	6:4B:101:ARG:HG3	2.15	0.54
6:4B:273:ARG:HG3	6:4B:273:ARG:NH2	2.22	0.54
7:5A:1119:LEU:HD23	7:5A:1132:LYS:HG3	1.87	0.54
7:5C:842:LEU:HD22	7:5C:842:LEU:N	2.02	0.54
7:5C:1384:GLN:N	7:5C:1384:GLN:HE21	2.05	0.54
9:7E:7:LEU:HD23	9:7F:27:GLY:HA2	1.87	0.54
2:AD:212:PHE:HZ	1:AE:326:LYS:HD3	0.53	0.54
2:AF:114:ASP:OD1	2:AF:115:SER:N	2.40	0.54
2:AF:207:LEU:HB3	2:AF:225:LEU:HD22	1.89	0.54
1:BC:60:LYS:NZ	1:CC:283:HIS:NE2	2.52	0.54
1:BC:101:ASN:ND2	2:BD:252:LYS:HG3	2.14	0.54
2:CB:127:CYS:SG	2:CB:130:LEU:HD13	2.48	0.54
1:CC:188:ILE:HD12	1:CC:425:LEU:HD11	1.90	0.54
13:CD:501:GDP:C8	1:CE:248:LEU:CD1	2.91	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DC:188:ILE:HD12	1:DC:425:LEU:HD11	1.90	0.54
2:DD:177:ASP:OD2	1:DE:248:LEU:HD23	2.08	0.54
2:EB:25:SER:HG	2:EB:51:TYR:HH	1.54	0.54
2:EB:207:LEU:HB3	2:EB:225:LEU:HD22	1.89	0.54
1:EC:184:PRO:O	1:EC:188:ILE:HG12	2.08	0.54
1:FC:60:LYS:HD3	1:GC:283:HIS:CD2	2.27	0.54
2:FD:207:LEU:HB3	2:FD:225:LEU:HD22	1.89	0.54
2:FF:42:LEU:HA	2:FF:45:GLU:HG3	1.89	0.54
2:FF:207:LEU:HB3	2:FF:225:LEU:HD22	1.89	0.54
2:GB:25:SER:HG	2:GB:51:TYR:HH	1.55	0.54
2:GB:207:LEU:HB3	2:GB:225:LEU:HD22	1.89	0.54
1:GC:11:GLN:HG3	1:GC:74:VAL:HG11	1.90	0.54
2:GD:54:ALA:CB	2:HD:281:TYR:O	2.56	0.54
1:GE:184:PRO:O	1:GE:188:ILE:HG12	2.08	0.54
1:HA:184:PRO:O	1:HA:188:ILE:HG12	2.08	0.54
1:IE:141:VAL:HG11	1:IE:172:TYR:CD1	2.38	0.54
2:JF:127:CYS:SG	2:JF:130:LEU:HD13	2.48	0.54
1:KE:188:ILE:HD12	1:KE:425:LEU:HD11	1.90	0.54
2:KF:54:ALA:CB	2:LF:285:THR:HG22	2.16	0.54
1:LA:188:ILE:HD12	1:LA:425:LEU:HD11	1.90	0.54
1:LC:176:GLN:HE22	4:2A:42:PHE:HB2	1.72	0.54
1:LC:188:ILE:HD12	1:LC:425:LEU:HD11	1.90	0.54
1:LE:188:ILE:HD12	1:LE:425:LEU:HD11	1.90	0.54
4:2B:164:ARG:CZ	4:2B:164:ARG:CB	2.85	0.54
6:4C:223:PHE:N	6:4C:223:PHE:CD2	2.73	0.54
7:5C:839:GLU:OE2	8:6C:11:PRO:CG	2.56	0.54
7:5C:1119:LEU:HD23	7:5C:1132:LYS:HG3	1.87	0.54
7:5C:1125:LEU:HD23	8:6C:246:TYR:CE2	2.43	0.54
1:AC:284:GLU:HG3	1:AC:286:LEU:HD22	1.88	0.54
2:AD:207:LEU:HB3	2:AD:225:LEU:HD22	1.89	0.54
2:AD:356:ILE:HD12	6:4C:152:PHE:HD1	1.63	0.54
1:BA:188:ILE:HD12	1:BA:425:LEU:HD11	1.90	0.54
1:BA:279:GLU:OE2	10:8A:22:UNK:HA	2.08	0.54
1:BC:184:PRO:O	1:BC:188:ILE:HG12	2.08	0.54
2:BD:207:LEU:HB3	2:BD:225:LEU:HD22	1.89	0.54
13:BD:501:GDP:C8	1:BE:248:LEU:CD1	2.90	0.54
2:BF:207:LEU:HB3	2:BF:225:LEU:HD22	1.89	0.54
1:DA:188:ILE:HD12	1:DA:425:LEU:HD11	1.90	0.54
1:DA:241:SER:OG	1:DA:250:VAL:O	2.23	0.54
2:DB:212:PHE:CZ	1:DC:326:LYS:CE	2.90	0.54
1:EA:184:PRO:O	1:EA:188:ILE:HG12	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:430:LYS:NZ	7:5C:834:ASN:ND2	0.57	0.54
1:EC:188:ILE:HD12	1:EC:425:LEU:HD11	1.90	0.54
1:FC:423:GLU:HG3	7:5A:1256:ARG:HH21	1.73	0.54
1:GA:60:LYS:HD3	1:HA:283:HIS:CA	2.38	0.54
1:GC:89:PRO:CD	1:HC:280:LYS:HD2	2.38	0.54
2:GF:114:ASP:OD1	2:GF:115:SER:N	2.40	0.54
1:HA:100:ALA:HB1	2:HB:252:LYS:HA	1.89	0.54
2:HF:42:LEU:HA	2:HF:45:GLU:HG3	1.89	0.54
1:JA:241:SER:OG	1:JA:250:VAL:O	2.23	0.54
2:JB:25:SER:HG	2:JB:51:TYR:HH	1.55	0.54
2:JD:42:LEU:HA	2:JD:45:GLU:HG3	1.89	0.54
1:KA:188:ILE:HD12	1:KA:425:LEU:HD11	1.90	0.54
1:KA:394:LYS:NZ	2:KB:347:ASN:OD1	2.41	0.54
2:KD:126:GLY:O	4:2A:39:ALA:N	2.41	0.54
2:KF:42:LEU:HA	2:KF:45:GLU:HG3	1.89	0.54
4:2C:164:ARG:CZ	4:2C:164:ARG:CB	2.85	0.54
6:4C:300:SER:O	6:4C:300:SER:OG	2.24	0.54
7:5A:1096:ASN:OD1	7:5A:1097:PRO:HD2	2.08	0.54
7:5B:1125:LEU:HD23	8:6B:246:TYR:CE2	2.43	0.54
7:5C:912:VAL:HG11	7:5C:918:ILE:CG1	2.37	0.54
7:5C:1096:ASN:OD1	7:5C:1097:PRO:HD2	2.08	0.54
7:5C:1271:ILE:HB	9:7E:20:LEU:HD23	1.63	0.54
7:5C:1401:LYS:H	7:5C:1401:LYS:CD	2.03	0.54
1:AA:284:GLU:HG3	1:AA:286:LEU:HD22	1.88	0.54
1:AA:394:LYS:NZ	2:AB:347:ASN:OD1	2.41	0.54
1:BC:188:ILE:HD12	1:BC:425:LEU:HD11	1.90	0.54
1:BC:284:GLU:HG3	1:BC:286:LEU:HD22	1.89	0.54
1:BC:404:PHE:CE2	2:BD:345:ILE:CD1	2.89	0.54
2:BD:390:ARG:HD2	1:BE:439:THR:HG21	1.90	0.54
1:BE:184:PRO:O	1:BE:188:ILE:HG12	2.08	0.54
1:BE:188:ILE:HD12	1:BE:425:LEU:HD11	1.90	0.54
1:CA:188:ILE:HD12	1:CA:425:LEU:HD11	1.90	0.54
1:CA:401:LYS:CE	2:CB:344:TRP:CZ3	2.74	0.54
2:DB:397:TRP:CB	1:DC:256:GLN:HE22	2.18	0.54
2:DD:86:ARG:HA	2:ED:281:TYR:CD1	2.33	0.54
1:EA:188:ILE:HD12	1:EA:425:LEU:HD11	1.90	0.54
1:EC:394:LYS:NZ	2:ED:347:ASN:OD1	2.41	0.54
1:EE:184:PRO:O	1:EE:188:ILE:HG12	2.08	0.54
1:EE:404:PHE:CE2	2:EF:345:ILE:HD11	2.43	0.54
1:FA:11:GLN:HG3	1:FA:74:VAL:HG11	1.90	0.54
1:FA:11:GLN:NE2	2:FB:247:ASN:OD1	2.41	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:184:PRO:O	1:FA:188:ILE:HG12	2.08	0.54
1:FE:184:PRO:O	1:FE:188:ILE:HG12	2.08	0.54
1:FE:222:PRO:HG3	2:FF:324:LYS:HD3	1.83	0.54
1:GA:11:GLN:HG3	1:GA:74:VAL:HG11	1.90	0.54
1:GA:188:ILE:HD12	1:GA:425:LEU:HD11	1.90	0.54
2:GB:58:ARG:NH2	2:HB:281:TYR:OH	2.41	0.54
1:GE:11:GLN:HG3	1:GE:74:VAL:HG11	1.90	0.54
1:HC:11:GLN:HG3	1:HC:74:VAL:HG11	1.90	0.54
1:HC:184:PRO:O	1:HC:188:ILE:HG12	2.08	0.54
2:IB:42:LEU:HA	2:IB:45:GLU:HG3	1.89	0.54
2:IB:212:PHE:HZ	1:IC:326:LYS:CE	2.14	0.54
1:IC:141:VAL:HG11	1:IC:172:TYR:CD1	2.38	0.54
1:IC:188:ILE:HD12	1:IC:425:LEU:HD11	1.90	0.54
1:IC:402:ARG:NH2	7:5A:1417:GLN:CA	2.69	0.54
1:IC:404:PHE:CE2	2:ID:345:ILE:CD1	2.90	0.54
2:ID:42:LEU:HA	2:ID:45:GLU:HG3	1.89	0.54
1:IE:389:SER:HB2	5:3A:307:LYS:CG	2.37	0.54
2:IF:87:PRO:CD	2:JF:281:TYR:CZ	2.91	0.54
2:IF:114:ASP:OD1	2:IF:115:SER:N	2.40	0.54
2:IF:207:LEU:HB3	2:IF:225:LEU:HD22	1.89	0.54
2:JB:86:ARG:HH21	2:KB:280:GLN:HB2	1.58	0.54
1:JC:404:PHE:HE2	2:JD:345:ILE:HD12	1.73	0.54
2:JF:42:LEU:HA	2:JF:45:GLU:HG3	1.89	0.54
1:KC:11:GLN:HG3	1:KC:74:VAL:HG11	1.90	0.54
1:KC:188:ILE:HD12	1:KC:425:LEU:HD11	1.90	0.54
2:LD:337:ASN:HD21	4:2A:148:ASN:HB2	1.73	0.54
2:MB:207:LEU:HB3	2:MB:225:LEU:HD22	1.89	0.54
2:MD:207:LEU:HB3	2:MD:225:LEU:HD22	1.89	0.54
2:MD:221:THR:HG21	6:4B:189:ARG:NH1	2.23	0.54
4:2A:164:ARG:CZ	4:2A:164:ARG:CB	2.85	0.54
4:2A:176:ARG:HA	4:2A:179:VAL:HB	1.90	0.54
4:2B:176:ARG:HA	4:2B:179:VAL:HB	1.90	0.54
4:2C:176:ARG:HA	4:2C:179:VAL:HB	1.90	0.54
5:3B:229:PHE:CE1	5:3B:331:GLN:OE1	2.56	0.54
6:4A:101:ARG:NH2	6:4A:101:ARG:HG3	2.15	0.54
6:4C:278:TYR:N	6:4C:278:TYR:CD1	2.72	0.54
6:4D:273:ARG:HG3	6:4D:273:ARG:NH2	2.22	0.54
8:6A:14:ARG:CZ	8:6A:89:ILE:HG23	2.38	0.54
8:6B:14:ARG:CZ	8:6B:89:ILE:HG23	2.38	0.54
9:7C:36:GLN:HA	9:7D:43:LEU:CD2	2.38	0.54
10:8R:36:UNK:O	10:8R:37:UNK:CB	2.53	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:207:LEU:HB3	2:AB:225:LEU:HD22	1.89	0.54
2:AB:220:PRO:CD	1:AC:326:LYS:HE2	2.35	0.54
2:AD:114:ASP:OD1	2:AD:115:SER:N	2.40	0.54
2:AD:220:PRO:CD	1:AE:326:LYS:HE2	2.35	0.54
2:AD:224:ASP:OD1	6:4C:131:VAL:N	2.39	0.54
2:CB:222:TYR:HD2	1:CC:247:ALA:HB1	1.73	0.54
1:CE:11:GLN:HG3	1:CE:74:VAL:HG11	1.90	0.54
1:CE:188:ILE:HD12	1:CE:425:LEU:HD11	1.90	0.54
2:CF:25:SER:HG	2:CF:51:TYR:HH	1.55	0.54
2:DB:86:ARG:HB2	2:EB:281:TYR:CE1	2.43	0.54
1:EA:11:GLN:HG3	1:EA:74:VAL:HG11	1.90	0.54
1:EA:430:LYS:NZ	7:5C:834:ASN:HD21	1.08	0.54
2:EB:54:ALA:C	2:FB:283:ALA:HB2	2.31	0.54
2:EB:85:PHE:C	2:FB:281:TYR:OH	2.51	0.54
2:ED:397:TRP:CD2	1:EE:256:GLN:O	2.29	0.54
1:EE:398:MET:SD	2:EF:345:ILE:CG1	2.84	0.54
1:FC:184:PRO:O	1:FC:188:ILE:HG12	2.08	0.54
2:FD:222:TYR:CE2	1:FE:325:PRO:HG2	2.42	0.54
1:FE:141:VAL:HG11	1:FE:172:TYR:CD1	2.38	0.54
2:GB:114:ASP:OD1	2:GB:115:SER:N	2.40	0.54
1:GC:188:ILE:HD12	1:GC:425:LEU:HD11	1.90	0.54
1:GE:188:ILE:HD12	1:GE:425:LEU:HD11	1.90	0.54
2:GF:127:CYS:SG	2:GF:130:LEU:HD13	2.48	0.54
1:HE:184:PRO:O	1:HE:188:ILE:HG12	2.08	0.54
1:IC:184:PRO:O	1:IC:188:ILE:HG12	2.08	0.54
1:IE:184:PRO:O	1:IE:188:ILE:HG12	2.08	0.54
2:IF:42:LEU:HA	2:IF:45:GLU:HG3	1.89	0.54
2:JB:42:LEU:HA	2:JB:45:GLU:HG3	1.88	0.54
1:JC:11:GLN:HG3	1:JC:74:VAL:HG11	1.90	0.54
2:JD:127:CYS:SG	2:JD:130:LEU:HD13	2.48	0.54
1:KA:11:GLN:HG3	1:KA:74:VAL:HG11	1.90	0.54
1:KA:184:PRO:O	1:KA:188:ILE:HG12	2.08	0.54
2:KB:228:LEU:HD21	6:4A:267:ILE:HD12	1.87	0.54
2:KD:125:GLU:C	4:2A:38:VAL:HA	2.32	0.54
2:LB:114:ASP:OD1	2:LB:115:SER:N	2.40	0.54
1:LC:60:LYS:HZ3	1:MC:283:HIS:CE1	2.21	0.54
1:LE:222:PRO:CD	2:LF:324:LYS:CB	2.86	0.54
6:4C:101:ARG:NH2	6:4C:101:ARG:HG3	2.15	0.54
7:5A:912:VAL:HG11	7:5A:918:ILE:CG1	2.37	0.54
7:5B:1096:ASN:OD1	7:5B:1097:PRO:HD2	2.08	0.54
7:5C:1521:PHE:CA	7:5C:1567:PHE:HE2	2.10	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:6C:14:ARG:CZ	8:6C:89:ILE:HG23	2.38	0.54
9:7A:36:GLN:HA	9:7B:43:LEU:CD2	2.38	0.54
1:AE:184:PRO:O	1:AE:188:ILE:HG12	2.08	0.53
1:BA:284:GLU:HG3	1:BA:286:LEU:HD22	1.88	0.53
1:BC:241:SER:OG	1:BC:250:VAL:O	2.23	0.53
2:DD:25:SER:HG	2:DD:51:TYR:HH	1.55	0.53
2:DD:212:PHE:CZ	1:DE:326:LYS:CE	2.91	0.53
1:DE:11:GLN:HG3	1:DE:74:VAL:HG11	1.90	0.53
1:DE:188:ILE:HD12	1:DE:425:LEU:HD11	1.90	0.53
2:EB:179:VAL:CG2	1:EC:258:ASN:CA	2.86	0.53
1:EE:188:ILE:HD12	1:EE:425:LEU:HD11	1.90	0.53
1:FA:89:PRO:N	1:GA:280:LYS:NZ	2.49	0.53
1:FA:422:ARG:NE	7:5C:1170:THR:C	2.66	0.53
1:FC:11:GLN:HG3	1:FC:74:VAL:HG11	1.90	0.53
1:FC:141:VAL:HG11	1:FC:172:TYR:CD1	2.38	0.53
2:FD:177:ASP:CG	1:FE:353:VAL:HG13	1.93	0.53
1:GC:141:VAL:HG11	1:GC:172:TYR:CD1	2.38	0.53
2:GD:25:SER:HG	2:GD:51:TYR:HH	1.55	0.53
2:GD:114:ASP:OD1	2:GD:115:SER:N	2.40	0.53
2:GD:207:LEU:HB3	2:GD:225:LEU:HD22	1.89	0.53
1:GE:141:VAL:HG11	1:GE:172:TYR:CD1	2.38	0.53
1:GE:178:SER:OG	2:GF:347:ASN:HB3	2.08	0.53
1:HE:11:GLN:HG3	1:HE:74:VAL:HG11	1.90	0.53
1:IA:11:GLN:HG3	1:IA:74:VAL:HG11	1.90	0.53
1:IA:141:VAL:HG11	1:IA:172:TYR:CD1	2.38	0.53
1:IA:184:PRO:O	1:IA:188:ILE:HG12	2.08	0.53
2:IB:127:CYS:SG	2:IB:130:LEU:HD13	2.48	0.53
1:IC:11:GLN:HG3	1:IC:74:VAL:HG11	1.90	0.53
1:IC:176:GLN:O	2:ID:347:ASN:ND2	2.35	0.53
2:ID:179:VAL:HG22	1:IE:258:ASN:CG	2.33	0.53
1:IE:11:GLN:HG3	1:IE:74:VAL:HG11	1.90	0.53
2:IF:25:SER:HG	2:IF:51:TYR:HH	1.54	0.53
2:JB:397:TRP:CD2	1:JC:256:GLN:O	2.30	0.53
1:KC:241:SER:OG	1:KC:250:VAL:O	2.23	0.53
1:KE:178:SER:OG	2:KF:347:ASN:HB3	2.08	0.53
1:LC:47:ASP:OD1	6:4A:203:LYS:HE3	2.09	0.53
1:LC:56:THR:OG1	1:MC:284:GLU:CA	2.56	0.53
2:MD:25:SER:HG	2:MD:51:TYR:HH	1.56	0.53
2:MF:221:THR:HB	6:4D:189:ARG:HH12	1.72	0.53
7:5A:829:GLY:HA2	8:6A:109:ILE:HG21	1.90	0.53
7:5B:912:VAL:HG11	7:5B:918:ILE:CG1	2.37	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1398:GLU:OE2	7:5C:1398:GLU:HA	2.05	0.53
1:AA:188:ILE:HD12	1:AA:425:LEU:HD11	1.90	0.53
2:AB:114:ASP:OD1	2:AB:115:SER:N	2.40	0.53
1:AC:184:PRO:O	1:AC:188:ILE:HG12	2.08	0.53
2:CD:391:ARG:HG3	1:CE:346:TRP:CD1	2.43	0.53
1:DA:402:ARG:NH2	7:5C:777:ALA:CB	2.42	0.53
2:DB:127:CYS:SG	2:DB:130:LEU:HD13	2.48	0.53
2:EB:125:GLU:CD	7:5C:903:PHE:HE2	2.14	0.53
1:EC:11:GLN:HG3	1:EC:74:VAL:HG11	1.90	0.53
1:FA:188:ILE:HD12	1:FA:425:LEU:HD11	1.90	0.53
2:FB:207:LEU:HB3	2:FB:225:LEU:HD22	1.89	0.53
1:FE:423:GLU:CG	7:5B:1256:ARG:NH2	2.71	0.53
1:GA:141:VAL:HG11	1:GA:172:TYR:CD1	2.38	0.53
1:GA:394:LYS:NZ	2:GB:347:ASN:OD1	2.41	0.53
1:GC:404:PHE:CE2	2:GD:345:ILE:CD1	2.90	0.53
1:HA:11:GLN:HG3	1:HA:74:VAL:HG11	1.90	0.53
2:HB:127:CYS:SG	2:HB:130:LEU:HD13	2.48	0.53
2:IB:114:ASP:OD1	2:IB:115:SER:N	2.40	0.53
2:ID:127:CYS:SG	2:ID:130:LEU:HD13	2.48	0.53
2:JD:86:ARG:NH1	2:KD:280:GLN:CB	2.50	0.53
1:JE:11:GLN:HG3	1:JE:74:VAL:HG11	1.90	0.53
1:JE:188:ILE:HD12	1:JE:425:LEU:HD11	1.90	0.53
1:KE:11:GLN:HG3	1:KE:74:VAL:HG11	1.90	0.53
1:LA:221:ARG:NH1	2:LB:324:LYS:H	2.03	0.53
2:LD:114:ASP:OD1	2:LD:115:SER:N	2.40	0.53
2:LD:294:PHE:O	4:2A:148:ASN:O	2.26	0.53
2:MB:221:THR:HB	6:4A:189:ARG:HH12	1.73	0.53
7:5A:1398:GLU:OE2	7:5A:1398:GLU:HA	2.05	0.53
7:5C:1521:PHE:CE2	7:5C:1567:PHE:O	2.61	0.53
1:AC:11:GLN:HG3	1:AC:74:VAL:HG11	1.90	0.53
1:AC:404:PHE:CE2	2:AD:345:ILE:CD1	2.90	0.53
1:CA:11:GLN:HG3	1:CA:74:VAL:HG11	1.90	0.53
1:DC:11:GLN:HG3	1:DC:74:VAL:HG11	1.90	0.53
1:DC:241:SER:OG	1:DC:250:VAL:O	2.23	0.53
1:EE:11:GLN:HG3	1:EE:74:VAL:HG11	1.90	0.53
1:FC:188:ILE:HD12	1:FC:425:LEU:HD11	1.90	0.53
1:FE:11:GLN:HG3	1:FE:74:VAL:HG11	1.90	0.53
2:GD:212:PHE:HZ	1:GE:326:LYS:HD3	0.53	0.53
2:GF:207:LEU:HB3	2:GF:225:LEU:HD22	1.89	0.53
2:HD:127:CYS:SG	2:HD:130:LEU:HD13	2.48	0.53
2:HD:179:VAL:HG22	1:HE:258:ASN:CG	2.33	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IC:393:HIS:CB	5:3C:308:PHE:HE2	2.20	0.53
2:ID:114:ASP:OD1	2:ID:115:SER:N	2.40	0.53
2:JB:127:CYS:SG	2:JB:130:LEU:HD13	2.48	0.53
1:JC:90:GLU:C	1:KC:280:LYS:HZ1	2.07	0.53
2:JD:179:VAL:HG22	1:JE:258:ASN:CG	2.33	0.53
1:KC:184:PRO:O	1:KC:188:ILE:HG12	2.08	0.53
1:KE:184:PRO:O	1:KE:188:ILE:HG12	2.08	0.53
1:LC:184:PRO:O	1:LC:188:ILE:HG12	2.08	0.53
1:LE:184:PRO:O	1:LE:188:ILE:HG12	2.08	0.53
2:LF:114:ASP:OD1	2:LF:115:SER:N	2.41	0.53
2:LF:228:LEU:CD2	6:4D:225:PRO:CG	2.87	0.53
1:MA:11:GLN:HG3	1:MA:74:VAL:HG11	1.90	0.53
2:MF:207:LEU:HB3	2:MF:225:LEU:HD22	1.89	0.53
7:5A:1405:GLU:O	7:5A:1409:PHE:N	2.39	0.53
7:5A:1521:PHE:CE2	7:5A:1567:PHE:O	2.61	0.53
7:5B:1246:LEU:CD2	9:7D:12:GLU:HG2	2.39	0.53
7:5B:1405:GLU:O	7:5B:1409:PHE:N	2.39	0.53
7:5C:1405:GLU:O	7:5C:1409:PHE:N	2.39	0.53
9:7E:7:LEU:CD2	9:7F:27:GLY:O	2.43	0.53
1:AA:11:GLN:HG3	1:AA:74:VAL:HG11	1.90	0.53
1:AA:60:LYS:HZ2	1:BA:283:HIS:CE1	2.27	0.53
1:AA:184:PRO:O	1:AA:188:ILE:HG12	2.08	0.53
1:BA:11:GLN:HG3	1:BA:74:VAL:HG11	1.90	0.53
2:BB:25:SER:HG	2:BB:51:TYR:HH	1.54	0.53
2:BF:87:PRO:CD	2:CF:281:TYR:CZ	2.89	0.53
1:CC:11:GLN:HG3	1:CC:74:VAL:HG11	1.90	0.53
1:DC:101:ASN:ND2	2:DD:252:LYS:HG3	2.16	0.53
1:FA:222:PRO:HG3	2:FB:324:LYS:CD	2.37	0.53
13:FD:502:GDP:C8	1:FE:248:LEU:CD1	2.90	0.53
1:FE:188:ILE:HD12	1:FE:425:LEU:HD11	1.90	0.53
1:FE:422:ARG:HE	7:5B:1170:THR:C	2.16	0.53
1:HC:419:SER:CB	5:3C:238:ILE:HD12	2.33	0.53
2:HF:127:CYS:SG	2:HF:130:LEU:HD13	2.48	0.53
2:ID:212:PHE:CE2	1:IE:326:LYS:HD3	2.26	0.53
2:IF:127:CYS:SG	2:IF:130:LEU:HD13	2.48	0.53
1:JA:11:GLN:HG3	1:JA:74:VAL:HG11	1.90	0.53
1:JA:188:ILE:HD12	1:JA:425:LEU:HD11	1.90	0.53
1:JC:89:PRO:HD3	1:KC:283:HIS:NE2	2.16	0.53
1:JC:404:PHE:CE2	2:JD:345:ILE:CD1	2.90	0.53
1:KA:176:GLN:O	2:KB:347:ASN:ND2	2.34	0.53
2:KB:276:ARG:HH22	6:4A:266:ASN:H	1.51	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:77:ARG:HD3	2:LF:281:TYR:CE2	2.43	0.53
2:KF:290:THR:HA	2:KF:293:MET:HE2	1.90	0.53
2:LB:179:VAL:CG2	1:LC:258:ASN:O	2.36	0.53
2:LB:274:THR:HG23	6:4A:228:LEU:HD22	1.90	0.53
2:LD:227:HIS:CE1	6:4B:226:ILE:CG1	2.89	0.53
1:LE:11:GLN:HG3	1:LE:74:VAL:HG11	1.90	0.53
1:MA:96:LYS:HE2	2:MB:1:MET:HE3	1.90	0.53
1:ME:11:GLN:HG3	1:ME:74:VAL:HG11	1.90	0.53
2:MF:25:SER:HG	2:MF:51:TYR:HH	1.56	0.53
4:2A:112:GLU:OE2	4:2A:115:LEU:HD12	2.08	0.53
4:2B:112:GLU:OE2	4:2B:115:LEU:HD12	2.08	0.53
4:2C:112:GLU:OE2	4:2C:115:LEU:HD12	2.08	0.53
7:5A:1399:LYS:HB3	7:5A:1399:LYS:NZ	2.14	0.53
7:5B:1272:ILE:HG12	9:7D:11:TYR:CD2	2.44	0.53
7:5B:1398:GLU:OE2	7:5B:1398:GLU:HA	2.05	0.53
7:5B:1416:LYS:NZ	7:5B:1416:LYS:CA	2.72	0.53
7:5B:1521:PHE:CE2	7:5B:1567:PHE:O	2.61	0.53
7:5B:1577:LYS:CE	7:5B:1577:LYS:CA	2.85	0.53
1:AC:188:ILE:HD12	1:AC:425:LEU:HD11	1.90	0.53
2:AD:273:LEU:H	2:AD:292:GLN:HE22	1.55	0.53
1:AE:11:GLN:HG3	1:AE:74:VAL:HG11	1.90	0.53
1:AE:188:ILE:HD12	1:AE:425:LEU:HD11	1.90	0.53
1:BE:401:LYS:HE3	2:BF:344:TRP:CZ3	2.42	0.53
1:DA:11:GLN:HG3	1:DA:74:VAL:HG11	1.90	0.53
2:ED:25:SER:HG	2:ED:51:TYR:HH	1.54	0.53
2:ED:54:ALA:C	2:FD:283:ALA:HB2	2.33	0.53
2:EF:55:THR:N	2:FF:283:ALA:CB	2.72	0.53
1:FA:419:SER:C	7:5C:1256:ARG:HH21	2.16	0.53
2:FF:55:THR:HG21	2:GF:284:LEU:N	2.08	0.53
2:GB:127:CYS:SG	2:GB:130:LEU:HD13	2.48	0.53
2:GD:127:CYS:SG	2:GD:130:LEU:HD13	2.48	0.53
2:GD:273:LEU:H	2:GD:292:GLN:HE22	1.55	0.53
2:GD:412:GLU:OE2	7:5A:1323:MET:HE1	2.04	0.53
2:GF:222:TYR:O	2:GF:226:ASN:ND2	2.28	0.53
2:HD:273:LEU:H	2:HD:292:GLN:HE22	1.55	0.53
2:HF:273:LEU:H	2:HF:292:GLN:HE22	1.55	0.53
2:ID:273:LEU:H	2:ID:292:GLN:HE22	1.55	0.53
1:IE:389:SER:HB2	5:3A:307:LYS:CB	2.37	0.53
1:JA:394:LYS:NZ	2:JB:347:ASN:OD1	2.41	0.53
1:JC:90:GLU:HG2	1:KC:280:LYS:CD	2.37	0.53
1:JC:188:ILE:HD12	1:JC:425:LEU:HD11	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JC:241:SER:OG	1:JC:250:VAL:O	2.23	0.53
2:KB:290:THR:HA	2:KB:293:MET:HE2	1.90	0.53
2:KD:79:GLY:HA2	6:4B:254:ALA:HB1	1.90	0.53
1:KE:241:SER:OG	1:KE:250:VAL:O	2.23	0.53
1:LA:11:GLN:HG3	1:LA:74:VAL:HG11	1.90	0.53
1:LA:184:PRO:O	1:LA:188:ILE:HG12	2.08	0.53
1:LC:11:GLN:HG3	1:LC:74:VAL:HG11	1.90	0.53
1:MC:11:GLN:HG3	1:MC:74:VAL:HG11	1.90	0.53
2:MD:290:THR:HA	2:MD:293:MET:HE2	1.90	0.53
1:ME:188:ILE:HD12	1:ME:425:LEU:HD11	1.90	0.53
7:5A:1251:SER:HA	7:5A:1258:ARG:HH21	1.73	0.53
7:5B:1064:LYS:C	7:5B:1066:GLY:H	2.17	0.53
7:5B:1312:GLU:HA	7:5B:1315:ARG:HD2	1.91	0.53
7:5B:1548:VAL:HA	7:5B:1569:GLU:CG	2.35	0.53
7:5C:1251:SER:HA	7:5C:1258:ARG:HH21	1.73	0.53
7:5C:1399:LYS:NZ	7:5C:1399:LYS:HB3	2.14	0.53
1:BC:11:GLN:HG3	1:BC:74:VAL:HG11	1.90	0.53
1:BE:11:GLN:HG3	1:BE:74:VAL:HG11	1.90	0.53
1:CC:60:LYS:HZ3	1:DC:283:HIS:CE1	2.25	0.53
2:DD:127:CYS:SG	2:DD:130:LEU:HD13	2.48	0.53
2:DF:127:CYS:SG	2:DF:130:LEU:HD13	2.48	0.53
2:EB:222:TYR:CE2	1:EC:325:PRO:HG2	2.43	0.53
2:EB:273:LEU:H	2:EB:292:GLN:HE22	1.55	0.53
1:EE:141:VAL:HG11	1:EE:172:TYR:CD1	2.38	0.53
2:EF:273:LEU:H	2:EF:292:GLN:HE22	1.55	0.53
2:FB:273:LEU:H	2:FB:292:GLN:HE22	1.55	0.53
1:FC:179:THR:O	2:FD:350:LYS:HA	2.09	0.53
2:FF:332:ASN:HB2	7:5B:909:ASN:OD1	2.08	0.53
1:GA:398:MET:SD	2:GB:345:ILE:CG1	2.90	0.53
2:GB:273:LEU:H	2:GB:292:GLN:HE22	1.55	0.53
1:GC:404:PHE:HE2	2:GD:345:ILE:HD12	1.73	0.53
2:GD:179:VAL:HG22	1:GE:258:ASN:CB	2.39	0.53
2:GD:179:VAL:HG22	1:GE:258:ASN:CG	2.33	0.53
2:GD:212:PHE:CE2	1:GE:326:LYS:HD3	2.26	0.53
1:GE:56:THR:C	1:HE:285:GLN:CB	2.51	0.53
2:HB:139:LEU:HD13	2:HB:168:SER:HB3	1.91	0.53
2:HD:179:VAL:HG22	1:HE:258:ASN:CB	2.39	0.53
2:HF:139:LEU:HD13	2:HF:168:SER:HB3	1.91	0.53
1:IC:404:PHE:HE2	2:ID:345:ILE:HD12	1.73	0.53
2:IF:273:LEU:H	2:IF:292:GLN:HE22	1.55	0.53
2:JB:290:THR:HA	2:JB:293:MET:HE2	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KA:141:VAL:HG11	1:KA:172:TYR:CD1	2.38	0.53
2:KD:290:THR:HA	2:KD:293:MET:HE2	1.90	0.53
2:LD:55:THR:H	2:MD:283:ALA:CA	2.21	0.53
2:LD:220:PRO:O	1:LE:324:VAL:HG13	2.09	0.53
2:LD:222:TYR:O	2:LD:226:ASN:ND2	2.28	0.53
2:MB:290:THR:HA	2:MB:293:MET:HE2	1.90	0.53
1:MC:188:ILE:HD12	1:MC:425:LEU:HD11	1.90	0.53
2:MF:290:THR:HA	2:MF:293:MET:HE2	1.90	0.53
7:5A:1243:ASP:HB3	9:7B:8:ARG:HH11	1.70	0.53
7:5A:1521:PHE:CE2	7:5A:1567:PHE:CD1	2.96	0.53
7:5A:1577:LYS:CE	7:5A:1577:LYS:CA	2.85	0.53
7:5B:1251:SER:HA	7:5B:1258:ARG:HH21	1.73	0.53
7:5B:1399:LYS:HB3	7:5B:1399:LYS:NZ	2.14	0.53
7:5B:1485:LYS:O	7:5B:1488:GLU:HB3	2.09	0.53
7:5B:1503:TYR:CD1	7:5B:1508:ARG:CD	2.86	0.53
2:AD:179:VAL:HG22	1:AE:258:ASN:CB	2.39	0.53
1:AE:178:SER:OG	2:AF:347:ASN:HB3	2.08	0.53
2:AF:273:LEU:H	2:AF:292:GLN:HE22	1.55	0.53
1:BE:100:ALA:HB1	2:BF:252:LYS:HA	1.91	0.53
1:BE:241:SER:OG	1:BE:250:VAL:O	2.23	0.53
1:CC:282:TYR:HE2	10:8E:18:UNK:HA	1.73	0.53
2:CD:86:ARG:CA	2:DD:281:TYR:OH	2.56	0.53
2:ED:208:TYR:CD2	1:EE:326:LYS:HB3	2.43	0.53
2:EF:54:ALA:HB1	2:FF:281:TYR:O	2.08	0.53
2:EF:309:ARG:NH2	2:EF:426:GLN:O	2.32	0.53
2:FF:331:LEU:HD21	7:5B:915:PHE:CE1	2.43	0.53
2:GB:139:LEU:HD13	2:GB:168:SER:HB3	1.91	0.53
2:GD:409:THR:CB	7:5A:1330:ILE:HG12	2.04	0.53
2:GF:406:MET:CE	7:5B:1341:LYS:HE3	2.39	0.53
1:HA:394:LYS:NZ	2:HB:347:ASN:OD1	2.41	0.53
2:HD:139:LEU:HD13	2:HD:168:SER:HB3	1.91	0.53
2:IB:273:LEU:H	2:IB:292:GLN:HE22	1.55	0.53
2:IB:290:THR:HA	2:IB:293:MET:HE2	1.90	0.53
2:IB:424:GLN:HE21	7:5C:1413:GLN:NE2	1.17	0.53
1:IE:178:SER:OG	2:IF:347:ASN:HB3	2.08	0.53
1:JA:184:PRO:O	1:JA:188:ILE:HG12	2.08	0.53
2:JD:290:THR:HA	2:JD:293:MET:HE2	1.90	0.53
1:KC:404:PHE:CE2	2:KD:345:ILE:CD1	2.90	0.53
2:KD:179:VAL:HG22	1:KE:258:ASN:CB	2.39	0.53
2:KD:222:TYR:O	2:KD:226:ASN:ND2	2.27	0.53
2:KD:273:LEU:H	2:KD:292:GLN:HE22	1.55	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LE:101:ASN:ND2	2:LF:252:LYS:CG	2.72	0.53
2:LF:19:LYS:CE	6:4D:217:ASN:O	2.57	0.53
1:MA:188:ILE:HD12	1:MA:425:LEU:HD11	1.90	0.53
4:2C:112:GLU:OE2	4:2C:115:LEU:HD11	2.08	0.53
5:3B:224:ASP:HB2	5:3B:335:LYS:NZ	2.24	0.53
7:5A:1064:LYS:C	7:5A:1066:GLY:H	2.17	0.53
7:5A:1312:GLU:HA	7:5A:1315:ARG:HD2	1.91	0.53
7:5A:1548:VAL:HA	7:5A:1569:GLU:CG	2.35	0.53
7:5B:1475:PHE:CE2	7:5B:1565:GLU:OE1	2.62	0.53
7:5B:1521:PHE:CE2	7:5B:1567:PHE:CD1	2.96	0.53
7:5C:839:GLU:OE2	8:6C:11:PRO:HG3	2.09	0.53
7:5C:1436:ARG:HE	7:5C:1440:GLU:HG2	1.73	0.53
7:5C:1577:LYS:CE	7:5C:1577:LYS:CA	2.85	0.53
2:BB:180:VAL:HG12	1:BC:258:ASN:OD1	2.08	0.53
2:BD:25:SER:HG	2:BD:51:TYR:HH	1.54	0.53
2:CB:178:THR:HA	1:CC:352:LYS:HD3	1.90	0.53
1:CC:404:PHE:CE2	2:CD:345:ILE:CD1	2.90	0.53
1:DC:222:PRO:CG	2:DD:324:LYS:CD	2.85	0.53
1:DE:141:VAL:HG11	1:DE:172:TYR:CD1	2.38	0.53
1:DE:241:SER:OG	1:DE:250:VAL:O	2.23	0.53
1:EA:141:VAL:HG11	1:EA:172:TYR:CD1	2.38	0.53
1:EC:141:VAL:HG11	1:EC:172:TYR:CD1	2.38	0.53
2:ED:273:LEU:H	2:ED:292:GLN:HE22	1.55	0.53
1:FA:419:SER:HB3	7:5C:1256:ARG:CG	2.37	0.53
2:FD:273:LEU:H	2:FD:292:GLN:HE22	1.55	0.53
1:GA:60:LYS:HD3	1:HA:283:HIS:HA	1.90	0.53
2:GD:139:LEU:HD13	2:GD:168:SER:HB3	1.91	0.53
2:GF:25:SER:HG	2:GF:51:TYR:HH	1.56	0.53
2:ID:139:LEU:HD13	2:ID:168:SER:HB3	1.90	0.53
2:ID:179:VAL:HG22	1:IE:258:ASN:CB	2.39	0.53
2:ID:290:THR:HA	2:ID:293:MET:HE2	1.90	0.53
1:JE:178:SER:OG	2:JF:347:ASN:HB3	2.08	0.53
2:KB:273:LEU:CB	6:4A:268:LEU:CG	2.82	0.53
1:KC:141:VAL:HG11	1:KC:172:TYR:CD1	2.38	0.53
2:KD:25:SER:HG	2:KD:51:TYR:HH	1.55	0.53
2:KD:54:ALA:HA	2:LD:285:THR:CG2	2.39	0.53
2:LB:139:LEU:HD13	2:LB:168:SER:HB3	1.90	0.53
2:LB:180:VAL:HG12	1:LC:258:ASN:OD1	2.09	0.53
2:LB:290:THR:HA	2:LB:293:MET:HE2	1.90	0.53
2:LD:212:PHE:CE2	1:LE:326:LYS:HB2	2.44	0.53
2:LD:290:THR:HA	2:LD:293:MET:HE2	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LF:139:LEU:HD13	2:LF:168:SER:HB3	1.90	0.53
2:LF:290:THR:HA	2:LF:293:MET:HE2	1.90	0.53
2:MB:273:LEU:H	2:MB:292:GLN:HE22	1.55	0.53
5:3A:224:ASP:HB2	5:3A:335:LYS:NZ	2.24	0.53
5:3C:224:ASP:HB2	5:3C:335:LYS:NZ	2.24	0.53
7:5A:1485:LYS:O	7:5A:1488:GLU:HB3	2.09	0.53
7:5C:1064:LYS:C	7:5C:1066:GLY:H	2.17	0.53
7:5C:1373:PHE:CD1	7:5C:1373:PHE:N	2.72	0.53
2:AF:290:THR:HA	2:AF:293:MET:HE2	1.90	0.53
1:BC:100:ALA:HB1	2:BD:252:LYS:HA	1.91	0.53
2:DD:273:LEU:H	2:DD:292:GLN:HE22	1.55	0.53
2:DF:273:LEU:H	2:DF:292:GLN:HE22	1.55	0.53
2:EB:85:PHE:C	2:FB:281:TYR:HH	2.14	0.53
2:EB:139:LEU:HD13	2:EB:168:SER:HB3	1.91	0.53
2:ED:139:LEU:HD13	2:ED:168:SER:HB3	1.90	0.53
2:ED:290:THR:HA	2:ED:293:MET:HE2	1.90	0.53
1:GC:56:THR:O	1:HC:285:GLN:HA	2.09	0.53
1:GC:398:MET:SD	2:GD:345:ILE:CG1	2.90	0.53
1:HA:141:VAL:HG11	1:HA:172:TYR:CD1	2.38	0.53
2:IB:177:ASP:CA	1:IC:353:VAL:HG12	2.39	0.53
2:IF:139:LEU:HD13	2:IF:168:SER:HB3	1.91	0.53
2:IF:290:THR:HA	2:IF:293:MET:HE2	1.90	0.53
2:JB:177:ASP:CA	1:JC:353:VAL:HG12	2.39	0.53
1:JC:184:PRO:O	1:JC:188:ILE:HG12	2.08	0.53
2:JD:180:VAL:HG12	1:JE:258:ASN:OD1	2.09	0.53
1:JE:241:SER:OG	1:JE:250:VAL:O	2.23	0.53
2:JF:290:THR:HA	2:JF:293:MET:HE2	1.90	0.53
1:KC:404:PHE:HE2	2:KD:345:ILE:HD12	1.73	0.53
2:KD:180:VAL:HG12	1:KE:258:ASN:OD1	2.09	0.53
2:LB:55:THR:H	2:MB:283:ALA:CA	2.21	0.53
2:LD:139:LEU:HD13	2:LD:168:SER:HB3	1.91	0.53
2:LD:179:VAL:HG22	1:LE:258:ASN:CA	2.39	0.53
1:LE:222:PRO:CD	2:LF:324:LYS:HB3	2.36	0.53
2:MD:111:GLU:HA	3:1B:62:SER:CA	2.39	0.53
4:2A:112:GLU:OE2	4:2A:115:LEU:HD11	2.08	0.53
5:3A:231:THR:N	5:3A:335:LYS:HD2	1.73	0.53
7:5A:1503:TYR:CD1	7:5A:1508:ARG:CD	2.86	0.53
7:5B:1272:ILE:HD11	9:7D:11:TYR:HD2	1.74	0.53
2:AD:290:THR:HA	2:AD:293:MET:HE2	1.90	0.53
1:AE:394:LYS:NZ	2:AF:347:ASN:OD1	2.42	0.53
2:BB:179:VAL:HG22	1:BC:258:ASN:CB	2.39	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BF:25:SER:HG	2:BF:51:TYR:HH	1.55	0.53
1:CC:100:ALA:HB1	2:CD:252:LYS:HA	1.90	0.53
1:DA:412:GLY:HA2	7:5C:792:TYR:CZ	2.44	0.53
2:DB:273:LEU:H	2:DB:292:GLN:HE22	1.55	0.53
2:DB:290:THR:HA	2:DB:293:MET:HE2	1.90	0.53
1:DC:141:VAL:HG11	1:DC:172:TYR:CD1	2.38	0.53
2:DD:290:THR:HA	2:DD:293:MET:HE2	1.90	0.53
1:EA:100:ALA:HB1	2:EB:252:LYS:CA	2.39	0.53
2:EB:84:LEU:C	2:FB:281:TYR:OH	2.52	0.53
2:EB:290:THR:HA	2:EB:293:MET:HE2	1.90	0.53
2:EF:290:THR:HA	2:EF:293:MET:HE2	1.90	0.53
2:FB:139:LEU:HD13	2:FB:168:SER:HB3	1.91	0.53
2:GF:139:LEU:HD13	2:GF:168:SER:HB3	1.91	0.53
2:HB:177:ASP:CA	1:HC:353:VAL:HG12	2.39	0.53
2:HB:273:LEU:H	2:HB:292:GLN:HE22	1.55	0.53
2:HB:290:THR:HA	2:HB:293:MET:HE2	1.90	0.53
1:HC:141:VAL:HG11	1:HC:172:TYR:CD1	2.38	0.53
2:HD:290:THR:HA	2:HD:293:MET:HE2	1.90	0.53
1:HE:178:SER:OG	2:HF:347:ASN:HB3	2.08	0.53
1:IA:394:LYS:NZ	2:IB:347:ASN:OD1	2.41	0.53
2:JB:273:LEU:H	2:JB:292:GLN:HE22	1.55	0.53
2:JD:273:LEU:H	2:JD:292:GLN:HE22	1.55	0.53
2:KB:25:SER:HG	2:KB:51:TYR:HH	1.56	0.53
2:KB:179:VAL:HG22	1:KC:258:ASN:CG	2.34	0.53
2:KB:273:LEU:H	2:KB:292:GLN:HE22	1.55	0.53
1:KE:141:VAL:HG11	1:KE:172:TYR:CD1	2.38	0.53
1:KE:394:LYS:NZ	2:KF:347:ASN:OD1	2.42	0.53
2:KF:86:ARG:NH2	2:LF:281:TYR:O	2.41	0.53
1:LA:89:PRO:N	1:MA:280:LYS:HZ2	2.07	0.53
1:LC:178:SER:OG	2:LD:347:ASN:CB	2.50	0.53
2:LF:340:TYR:CD1	4:2B:147:PHE:CA	2.91	0.53
1:MC:222:PRO:HG2	2:MD:324:LYS:HD3	1.91	0.53
2:MD:273:LEU:H	2:MD:292:GLN:HE22	1.55	0.53
6:4D:247:LYS:HD3	6:4D:247:LYS:N	2.24	0.53
7:5A:1436:ARG:HE	7:5A:1440:GLU:HG2	1.73	0.53
7:5A:1475:PHE:CE2	7:5A:1565:GLU:OE1	2.62	0.53
7:5B:1489:PHE:HA	7:5B:1492:SER:CB	2.27	0.53
7:5C:1312:GLU:HA	7:5C:1315:ARG:HD2	1.91	0.53
7:5C:1485:LYS:O	7:5C:1488:GLU:HB3	2.09	0.53
2:AB:273:LEU:H	2:AB:292:GLN:HE22	1.55	0.52
2:BD:290:THR:HA	2:BD:293:MET:HE2	1.90	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:176:SER:CB	1:CC:349:THR:OG1	2.57	0.52
2:CB:273:LEU:H	2:CB:292:GLN:HE22	1.55	0.52
2:CD:273:LEU:H	2:CD:292:GLN:HE22	1.55	0.52
2:DF:60:VAL:CG2	2:EF:281:TYR:CE1	2.92	0.52
2:EF:139:LEU:HD13	2:EF:168:SER:HB3	1.91	0.52
2:FB:25:SER:HG	2:FB:51:TYR:HH	1.56	0.52
2:FD:139:LEU:HD13	2:FD:168:SER:HB3	1.91	0.52
2:FD:290:THR:HA	2:FD:293:MET:HE2	1.90	0.52
2:FF:273:LEU:H	2:FF:292:GLN:HE22	1.55	0.52
1:GA:222:PRO:HD2	2:GB:324:LYS:HD3	1.91	0.52
2:GF:273:LEU:H	2:GF:292:GLN:HE22	1.55	0.52
1:HE:401:LYS:CE	2:HF:344:TRP:CZ3	2.67	0.52
2:HF:290:THR:HA	2:HF:293:MET:HE2	1.90	0.52
1:IA:279:GLU:CG	10:8V:22:UNK:CB	2.87	0.52
2:IB:139:LEU:HD13	2:IB:168:SER:HB3	1.91	0.52
1:IC:402:ARG:HH22	7:5A:1418:GLN:HA	1.70	0.52
2:ID:180:VAL:HG12	1:IE:258:ASN:OD1	2.09	0.52
2:KF:217:LEU:HD13	6:4D:263:CYS:SG	2.49	0.52
2:KF:273:LEU:H	2:KF:292:GLN:HE22	1.55	0.52
2:LB:379:LYS:HB3	4:2C:166:ILE:CG1	2.32	0.52
1:LC:89:PRO:HG2	1:MC:280:LYS:HD2	1.80	0.52
2:LD:212:PHE:HE2	1:LE:326:LYS:HB2	1.75	0.52
2:LD:222:TYR:CD2	1:LE:247:ALA:HB1	2.45	0.52
2:LF:227:HIS:CE1	6:4D:226:ILE:CG1	2.88	0.52
2:MF:273:LEU:H	2:MF:292:GLN:HE22	1.55	0.52
6:4B:247:LYS:HD3	6:4B:247:LYS:N	2.24	0.52
7:5A:1120:ASP:CG	7:5A:1125:LEU:HB2	2.34	0.52
7:5B:1436:ARG:HE	7:5B:1440:GLU:HG2	1.73	0.52
7:5C:1120:ASP:CG	7:5C:1125:LEU:HB2	2.34	0.52
7:5C:1503:TYR:CD1	7:5C:1508:ARG:CD	2.86	0.52
7:5C:1548:VAL:HA	7:5C:1569:GLU:CG	2.35	0.52
8:6A:108:LYS:HB2	8:6A:111:SER:HB2	1.91	0.52
8:6B:108:LYS:HB2	8:6B:111:SER:HB2	1.91	0.52
8:6C:102:ASN:HD21	8:6C:134:LYS:C	2.17	0.52
9:7A:11:TYR:HE1	9:7B:26:LEU:CD2	1.89	0.52
2:AB:290:THR:HA	2:AB:293:MET:HE2	1.90	0.52
2:BD:318:ARG:HH11	2:BD:358:PRO:HG3	1.75	0.52
2:CD:212:PHE:CZ	1:CE:326:LYS:CE	2.92	0.52
2:CF:273:LEU:H	2:CF:292:GLN:HE22	1.55	0.52
1:DA:400:ALA:HA	7:5C:775:PRO:HB3	1.91	0.52
2:DD:390:ARG:HD2	1:DE:439:THR:HG21	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DF:290:THR:HA	2:DF:293:MET:HE2	1.90	0.52
1:EE:430:LYS:HZ3	7:5B:834:ASN:HD21	0.89	0.52
2:FB:290:THR:HA	2:FB:293:MET:HE2	1.90	0.52
1:GA:89:PRO:CD	1:HA:280:LYS:CE	2.81	0.52
1:GC:100:ALA:HB1	2:GD:252:LYS:HA	1.91	0.52
2:HB:177:ASP:CG	1:HC:353:VAL:HG13	1.99	0.52
2:HB:362:LYS:NZ	10:8S:36:UNK:O	2.35	0.52
1:HE:141:VAL:HG11	1:HE:172:TYR:CD1	2.38	0.52
2:JB:86:ARG:HH22	2:KB:280:GLN:HB3	1.65	0.52
1:JC:398:MET:SD	2:JD:345:ILE:CG1	2.90	0.52
1:JE:184:PRO:O	1:JE:188:ILE:HG12	2.08	0.52
2:KB:139:LEU:HD13	2:KB:168:SER:HB3	1.91	0.52
1:KC:178:SER:OG	2:KD:347:ASN:HB3	2.09	0.52
2:KD:139:LEU:HD13	2:KD:168:SER:HB3	1.91	0.52
2:KF:139:LEU:HD13	2:KF:168:SER:HB3	1.91	0.52
2:LD:224:ASP:CG	6:4B:219:ASN:ND2	2.61	0.52
2:LF:310:TYR:HE2	4:2B:147:PHE:CE2	2.26	0.52
1:MC:96:LYS:HE2	2:MD:1:MET:HE3	1.91	0.52
4:2B:112:GLU:OE2	4:2B:115:LEU:HD11	2.08	0.52
7:5A:1332:GLN:HE21	7:5A:1332:GLN:HA	1.72	0.52
7:5B:1579:LYS:C	7:5B:1583:ASN:CG	2.75	0.52
7:5C:1332:GLN:HE21	7:5C:1332:GLN:HA	1.72	0.52
2:AB:177:ASP:CA	1:AC:353:VAL:HG12	2.39	0.52
2:AB:179:VAL:HG22	1:AC:258:ASN:CG	2.34	0.52
1:AC:178:SER:OG	2:AD:347:ASN:HB3	2.09	0.52
2:AD:357:PRO:HG2	6:4C:151:ARG:CD	2.39	0.52
1:BA:60:LYS:NZ	1:CA:283:HIS:NE2	2.54	0.52
2:BB:222:TYR:HD2	1:BC:247:ALA:HB1	1.74	0.52
1:BE:141:VAL:HG11	1:BE:172:TYR:CD1	2.38	0.52
2:BF:290:THR:HA	2:BF:293:MET:HE2	1.90	0.52
2:CF:290:THR:HA	2:CF:293:MET:HE2	1.90	0.52
1:DA:404:PHE:HE2	2:DB:345:ILE:HD12	1.75	0.52
2:DB:180:VAL:HG12	1:DC:258:ASN:OD1	2.10	0.52
1:EA:430:LYS:HZ1	7:5C:834:ASN:HD21	0.69	0.52
1:FC:176:GLN:O	2:FD:347:ASN:ND2	2.34	0.52
2:FF:25:SER:HG	2:FF:51:TYR:HH	1.56	0.52
2:GB:177:ASP:CA	1:GC:353:VAL:HG12	2.39	0.52
2:HD:318:ARG:HH11	2:HD:358:PRO:HG3	1.75	0.52
1:HE:196:GLU:HG3	5:3A:211:GLN:HE22	1.74	0.52
2:LB:305:PRO:HG2	4:2C:149:ILE:HD11	1.90	0.52
2:LF:318:ARG:HH11	2:LF:358:PRO:HG3	1.75	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LF:340:TYR:OH	4:2B:146:PRO:HA	2.10	0.52
4:2B:105:ALA:HB2	4:2B:124:LEU:HD22	1.91	0.52
4:2C:105:ALA:HB2	4:2C:124:LEU:HD22	1.91	0.52
6:4B:164:ARG:NH1	6:4B:164:ARG:CB	2.72	0.52
6:4B:285:ARG:HB3	6:4B:285:ARG:CZ	2.38	0.52
7:5C:1475:PHE:CE2	7:5C:1565:GLU:OE1	2.62	0.52
2:BB:290:THR:HA	2:BB:293:MET:HE2	1.90	0.52
2:BB:318:ARG:HH11	2:BB:358:PRO:HG3	1.75	0.52
2:CB:318:ARG:HH11	2:CB:358:PRO:HG3	1.75	0.52
2:CD:290:THR:HA	2:CD:293:MET:HE2	1.90	0.52
1:CE:404:PHE:CE2	2:CF:345:ILE:CD1	2.91	0.52
1:DA:401:LYS:HE3	2:DB:344:TRP:CZ3	2.44	0.52
2:DB:139:LEU:HD13	2:DB:168:SER:HB3	1.91	0.52
2:DD:178:THR:HA	1:DE:352:LYS:HD3	1.91	0.52
2:DF:60:VAL:HG21	2:EF:281:TYR:CE1	2.44	0.52
2:ED:178:THR:HA	1:EE:352:LYS:HD3	1.91	0.52
2:FF:139:LEU:HD13	2:FF:168:SER:HB3	1.91	0.52
2:FF:290:THR:HA	2:FF:293:MET:HE2	1.90	0.52
1:GC:56:THR:OG1	1:HC:284:GLU:C	2.51	0.52
1:GC:178:SER:OG	2:GD:347:ASN:HB3	2.09	0.52
2:GD:290:THR:HA	2:GD:293:MET:HE2	1.90	0.52
2:GF:290:THR:HA	2:GF:293:MET:HE2	1.90	0.52
1:IC:178:SER:OG	2:ID:347:ASN:HB3	2.09	0.52
1:JA:222:PRO:HD2	2:JB:324:LYS:HD3	1.92	0.52
1:JC:89:PRO:HD2	1:KC:283:HIS:CG	2.40	0.52
1:JC:178:SER:OG	2:JD:347:ASN:HB3	2.09	0.52
2:JD:179:VAL:HG22	1:JE:258:ASN:CB	2.39	0.52
1:JE:101:ASN:ND2	2:JF:252:LYS:HG3	2.14	0.52
2:JF:273:LEU:H	2:JF:292:GLN:HE22	1.55	0.52
1:KC:100:ALA:HB1	2:KD:252:LYS:HA	1.91	0.52
2:KD:125:GLU:HA	4:2A:37:GLY:O	2.09	0.52
2:LD:179:VAL:HG23	1:LE:258:ASN:HA	1.90	0.52
1:LE:35:GLN:HE21	6:4B:101:ARG:CB	2.17	0.52
2:LF:222:TYR:O	2:LF:226:ASN:ND2	2.27	0.52
2:LF:273:LEU:H	2:LF:292:GLN:HE22	1.55	0.52
2:MB:25:SER:HG	2:MB:51:TYR:HH	1.56	0.52
4:2A:105:ALA:HB2	4:2A:124:LEU:HD22	1.91	0.52
6:4A:164:ARG:NH1	6:4A:164:ARG:CB	2.72	0.52
6:4A:247:LYS:HD3	6:4A:247:LYS:N	2.24	0.52
6:4A:285:ARG:HB3	6:4A:285:ARG:CZ	2.38	0.52
6:4D:175:LEU:N	6:4D:175:LEU:CD2	2.73	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4D:179:ARG:CZ	6:4D:179:ARG:CB	2.85	0.52
6:4D:285:ARG:HB3	6:4D:285:ARG:CZ	2.38	0.52
7:5A:1548:VAL:HG12	7:5A:1566:GLU:N	2.19	0.52
7:5B:1120:ASP:CG	7:5B:1125:LEU:HB2	2.34	0.52
7:5B:1312:GLU:HA	7:5B:1315:ARG:HB3	1.90	0.52
7:5B:1332:GLN:HE21	7:5B:1332:GLN:HA	1.72	0.52
7:5B:1548:VAL:CG1	7:5B:1566:GLU:C	2.78	0.52
7:5C:1552:LYS:HZ3	7:5C:1563:SER:HB2	0.70	0.52
9:7A:42:LEU:HD13	9:7B:39:GLY:HA3	1.88	0.52
1:AC:342:GLN:HE22	3:1C:55:HIS:CE1	2.23	0.52
2:BB:273:LEU:H	2:BB:292:GLN:HE22	1.55	0.52
2:BD:273:LEU:H	2:BD:292:GLN:HE22	1.55	0.52
2:BF:273:LEU:H	2:BF:292:GLN:HE22	1.55	0.52
2:BF:318:ARG:HH11	2:BF:358:PRO:HG3	1.75	0.52
2:CB:25:SER:HG	2:CB:51:TYR:HH	1.57	0.52
2:CB:290:THR:HA	2:CB:293:MET:HE2	1.90	0.52
2:CD:318:ARG:HH11	2:CD:358:PRO:HG3	1.75	0.52
2:CF:318:ARG:HH11	2:CF:358:PRO:HG3	1.75	0.52
2:DB:318:ARG:HH11	2:DB:358:PRO:HG3	1.75	0.52
2:DB:390:ARG:HD2	1:DC:439:THR:HG21	1.92	0.52
2:DD:139:LEU:HD13	2:DD:168:SER:HB3	1.91	0.52
2:DD:220:PRO:HD2	1:DE:326:LYS:CD	2.39	0.52
2:DD:318:ARG:HH11	2:DD:358:PRO:HG3	1.75	0.52
1:DE:101:ASN:ND2	2:DF:252:LYS:HG3	2.16	0.52
2:EB:55:THR:N	2:FB:283:ALA:HB2	2.25	0.52
2:FD:25:SER:HG	2:FD:51:TYR:HH	1.56	0.52
2:FD:212:PHE:CZ	1:FE:326:LYS:CE	2.87	0.52
2:GD:222:TYR:CD2	1:GE:247:ALA:HB1	2.44	0.52
1:GE:394:LYS:NZ	2:GF:347:ASN:OD1	2.42	0.52
2:HB:222:TYR:O	2:HB:226:ASN:ND2	2.27	0.52
2:HF:318:ARG:HH11	2:HF:358:PRO:HG3	1.75	0.52
2:IB:179:VAL:HG22	1:IC:258:ASN:CG	2.34	0.52
2:JD:139:LEU:HD13	2:JD:168:SER:HB3	1.91	0.52
2:LD:318:ARG:HH11	2:LD:358:PRO:HG3	1.75	0.52
2:LF:55:THR:CG2	2:MF:283:ALA:C	2.77	0.52
1:MC:282:TYR:HD2	6:4A:104:ARG:NE	2.07	0.52
2:MD:79:GLY:C	6:4B:179:ARG:HD2	2.34	0.52
2:MD:139:LEU:HD13	2:MD:168:SER:HB3	1.91	0.52
2:MF:139:LEU:HD13	2:MF:168:SER:HB3	1.91	0.52
6:4A:120:GLN:O	6:4A:121:ARG:C	2.52	0.52
6:4B:175:LEU:N	6:4B:175:LEU:CD2	2.73	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4C:120:GLN:O	6:4C:121:ARG:C	2.52	0.52
6:4C:164:ARG:NH1	6:4C:164:ARG:CB	2.72	0.52
7:5A:1272:ILE:HG12	9:7B:11:TYR:CE2	2.44	0.52
7:5C:1572:LEU:CG	7:5C:1576:ILE:HD11	2.39	0.52
8:6B:102:ASN:HD21	8:6B:134:LYS:C	2.17	0.52
9:7A:15:VAL:CA	9:7B:35:ILE:HD12	2.02	0.52
9:7E:35:ILE:O	9:7F:43:LEU:CD2	2.58	0.52
9:7E:42:LEU:HD13	9:7F:39:GLY:CA	2.40	0.52
1:AA:222:PRO:HD2	2:AB:324:LYS:HD3	1.92	0.52
1:BA:141:VAL:HG11	1:BA:172:TYR:CD1	2.38	0.52
1:BC:141:VAL:HG11	1:BC:172:TYR:CD1	2.38	0.52
2:BD:212:PHE:CZ	1:BE:326:LYS:CE	2.91	0.52
2:DB:60:VAL:CG2	2:EB:281:TYR:CE1	2.92	0.52
2:DF:139:LEU:HD13	2:DF:168:SER:HB3	1.91	0.52
2:EB:318:ARG:HH11	2:EB:358:PRO:HG3	1.75	0.52
2:ED:176:SER:CB	1:EE:349:THR:OG1	2.57	0.52
2:ED:318:ARG:HH11	2:ED:358:PRO:HG3	1.75	0.52
2:FD:54:ALA:CA	2:GD:283:ALA:CB	2.52	0.52
1:FE:423:GLU:HG3	7:5B:1256:ARG:HH21	1.74	0.52
2:GB:290:THR:HA	2:GB:293:MET:HE2	1.90	0.52
2:HB:179:VAL:HG22	1:HC:258:ASN:CG	2.34	0.52
1:HC:100:ALA:HB1	2:HD:252:LYS:HA	1.91	0.52
1:HC:178:SER:OG	2:HD:347:ASN:HB3	2.09	0.52
2:HD:222:TYR:CD2	1:HE:247:ALA:HB1	2.45	0.52
1:IA:278:ALA:HB3	10:8V:21:UNK:CA	2.39	0.52
2:ID:85:PHE:C	2:JD:281:TYR:OH	2.53	0.52
2:IF:85:PHE:C	2:JF:281:TYR:OH	2.52	0.52
2:JB:179:VAL:HG22	1:JC:258:ASN:CG	2.35	0.52
2:JF:139:LEU:HD13	2:JF:168:SER:HB3	1.91	0.52
2:KD:222:TYR:CD2	1:KE:247:ALA:HB1	2.44	0.52
1:LA:101:ASN:ND2	2:LB:252:LYS:CG	2.73	0.52
2:LB:177:ASP:O	1:LC:352:LYS:HA	2.10	0.52
1:LC:101:ASN:ND2	2:LD:252:LYS:HG3	2.25	0.52
2:LD:273:LEU:H	2:LD:292:GLN:HE22	1.55	0.52
2:MB:139:LEU:HD13	2:MB:168:SER:HB3	1.91	0.52
6:4A:247:LYS:N	6:4A:247:LYS:CD	2.73	0.52
6:4B:120:GLN:O	6:4B:121:ARG:C	2.52	0.52
6:4B:247:LYS:N	6:4B:247:LYS:CD	2.73	0.52
6:4C:247:LYS:HD3	6:4C:247:LYS:N	2.24	0.52
6:4D:247:LYS:N	6:4D:247:LYS:CD	2.73	0.52
7:5A:1285:ARG:HD3	7:5A:1285:ARG:N	2.21	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1312:GLU:HA	7:5A:1315:ARG:HB3	1.90	0.52
7:5A:1343:LYS:CD	7:5A:1343:LYS:N	2.73	0.52
7:5A:1579:LYS:C	7:5A:1583:ASN:CG	2.75	0.52
7:5B:801:LEU:N	7:5B:801:LEU:CD2	2.73	0.52
7:5B:1343:LYS:CD	7:5B:1343:LYS:N	2.73	0.52
7:5C:1312:GLU:HA	7:5C:1315:ARG:HB3	1.90	0.52
7:5C:1399:LYS:HB3	7:5C:1399:LYS:HZ1	1.74	0.52
2:AB:318:ARG:HH11	2:AB:358:PRO:HG3	1.75	0.52
2:AD:318:ARG:HH11	2:AD:358:PRO:HG3	1.75	0.52
2:BB:139:LEU:HD13	2:BB:168:SER:HB3	1.90	0.52
2:BB:177:ASP:C	1:BC:352:LYS:HA	2.34	0.52
1:BC:176:GLN:O	2:BD:347:ASN:ND2	2.35	0.52
2:BD:86:ARG:HA	2:CD:281:TYR:OH	2.09	0.52
2:DD:212:PHE:HE2	1:DE:326:LYS:HB2	1.75	0.52
2:DF:318:ARG:HH11	2:DF:358:PRO:HG3	1.75	0.52
1:EA:430:LYS:NZ	7:5C:834:ASN:HD22	0.44	0.52
2:EF:318:ARG:HH11	2:EF:358:PRO:HG3	1.75	0.52
1:FC:222:PRO:HG3	2:FD:324:LYS:CD	2.39	0.52
2:HD:180:VAL:HG12	1:HE:258:ASN:OD1	2.09	0.52
1:IA:402:ARG:NH2	7:5C:1417:GLN:CA	2.73	0.52
2:JB:139:LEU:HD13	2:JB:168:SER:HB3	1.91	0.52
1:JE:394:LYS:NZ	2:JF:347:ASN:OD1	2.42	0.52
1:KC:85:GLN:C	1:LC:283:HIS:CA	2.77	0.52
1:LA:245:ASP:OD1	6:4C:216:ARG:NE	2.43	0.52
2:LB:318:ARG:HH11	2:LB:358:PRO:HG3	1.75	0.52
2:LB:394:PHE:CD1	1:LC:261:PRO:HA	2.44	0.52
2:MB:221:THR:HB	6:4A:189:ARG:NH1	2.25	0.52
2:MD:220:PRO:O	1:ME:324:VAL:HG11	2.09	0.52
6:4C:247:LYS:N	6:4C:247:LYS:CD	2.73	0.52
6:4C:285:ARG:HB3	6:4C:285:ARG:CZ	2.38	0.52
6:4D:120:GLN:O	6:4D:121:ARG:C	2.52	0.52
7:5A:801:LEU:N	7:5A:801:LEU:CD2	2.73	0.52
7:5A:1489:PHE:HA	7:5A:1492:SER:CB	2.27	0.52
7:5A:1572:LEU:CG	7:5A:1576:ILE:HD11	2.39	0.52
7:5B:841:VAL:HG23	8:6B:11:PRO:HG3	1.91	0.52
7:5B:1285:ARG:HD3	7:5B:1285:ARG:N	2.21	0.52
7:5B:1491:LEU:N	7:5B:1495:PHE:HB2	2.13	0.52
7:5C:1285:ARG:HD3	7:5C:1285:ARG:N	2.21	0.52
7:5C:1343:LYS:CD	7:5C:1343:LYS:N	2.73	0.52
7:5C:1436:ARG:HH21	7:5C:1440:GLU:HB2	1.74	0.52
7:5C:1548:VAL:HG12	7:5C:1566:GLU:N	2.18	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:6B:208:LYS:NZ	8:6B:236:ASP:OD2	2.42	0.52
9:7A:7:LEU:CD2	9:7B:30:ARG:HE	2.22	0.52
2:AD:139:LEU:HD13	2:AD:168:SER:HB3	1.90	0.52
2:AD:222:TYR:CD2	1:AE:247:ALA:HB1	2.44	0.52
2:AD:406:MET:O	2:AD:410:GLU:HG3	2.10	0.52
2:AF:139:LEU:HD13	2:AF:168:SER:HB3	1.91	0.52
2:AF:406:MET:O	2:AF:410:GLU:HG3	2.10	0.52
2:CB:139:LEU:HD13	2:CB:168:SER:HB3	1.91	0.52
2:CB:212:PHE:HE2	1:CC:326:LYS:HB2	1.75	0.52
2:CD:25:SER:HG	2:CD:51:TYR:HH	1.57	0.52
2:CD:397:TRP:CD2	1:CE:256:GLN:O	2.36	0.52
2:CF:139:LEU:HD13	2:CF:168:SER:HB3	1.91	0.52
2:FD:178:THR:HA	1:FE:352:LYS:HD3	1.90	0.52
1:HC:404:PHE:CE2	2:HD:345:ILE:CD1	2.90	0.52
2:ID:222:TYR:CD2	1:IE:247:ALA:HB1	2.44	0.52
2:JD:177:ASP:CA	1:JE:353:VAL:HG12	2.40	0.52
2:KB:86:ARG:HD3	2:LB:288:GLU:HG3	1.92	0.52
2:KB:98:GLY:CA	1:KC:254:GLU:CG	2.48	0.52
1:KC:85:GLN:HA	1:LC:283:HIS:HD2	1.59	0.52
2:KF:222:TYR:O	2:KF:226:ASN:ND2	2.28	0.52
2:LB:273:LEU:H	2:LB:292:GLN:HE22	1.55	0.52
2:LB:379:LYS:HE3	4:2C:164:ARG:O	2.09	0.52
6:4A:175:LEU:N	6:4A:175:LEU:CD2	2.73	0.52
7:5B:1572:LEU:CG	7:5B:1576:ILE:HD11	2.39	0.52
7:5C:801:LEU:N	7:5C:801:LEU:CD2	2.73	0.52
7:5C:1407:GLN:NE2	7:5C:1407:GLN:CA	2.73	0.52
7:5C:1548:VAL:CG1	7:5C:1569:GLU:CB	2.54	0.52
8:6A:102:ASN:HD21	8:6A:134:LYS:C	2.17	0.52
8:6C:177:TYR:HE1	8:6C:199:ILE:HD13	1.74	0.52
2:AB:406:MET:O	2:AB:410:GLU:HG3	2.10	0.52
1:AC:100:ALA:HB1	2:AD:252:LYS:HA	1.91	0.52
2:AF:318:ARG:HH11	2:AF:358:PRO:HG3	1.75	0.52
2:DF:84:LEU:C	2:EF:281:TYR:OH	2.52	0.52
1:EA:393:HIS:CE1	7:5C:814:LYS:CG	2.92	0.52
2:FB:390:ARG:HD3	1:FC:439:THR:HG21	1.92	0.52
2:HB:318:ARG:HH11	2:HB:358:PRO:HG3	1.75	0.52
1:IC:224:TYR:CE2	2:ID:246:LEU:HD11	2.43	0.52
2:ID:177:ASP:CA	1:IE:353:VAL:HG12	2.40	0.52
2:KB:177:ASP:CA	1:KC:353:VAL:HG12	2.39	0.52
2:KB:180:VAL:HG12	1:KC:258:ASN:OD1	2.10	0.52
1:KC:176:GLN:O	2:KD:347:ASN:ND2	2.35	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KD:98:GLY:CA	1:KE:254:GLU:CG	2.48	0.52
1:LE:222:PRO:CG	2:LF:324:LYS:HB2	2.33	0.52
2:LF:223:GLY:C	6:4D:219:ASN:CG	2.73	0.52
2:MB:221:THR:CG2	6:4A:189:ARG:NH2	2.34	0.52
2:MB:394:PHE:CD1	1:MC:261:PRO:HA	2.44	0.52
1:ME:372:MET:HE1	6:4B:96:VAL:O	1.95	0.52
6:4B:179:ARG:CB	6:4B:179:ARG:CZ	2.85	0.52
6:4C:175:LEU:N	6:4C:175:LEU:CD2	2.73	0.52
6:4C:285:ARG:HH11	6:4C:285:ARG:CB	2.22	0.52
6:4D:241:LYS:C	6:4D:241:LYS:HD3	2.32	0.52
7:5A:1436:ARG:HH21	7:5A:1440:GLU:HB2	1.74	0.52
7:5B:1552:LYS:HZ1	7:5B:1563:SER:N	2.08	0.52
7:5C:1411:LYS:HD3	7:5C:1411:LYS:C	2.34	0.52
7:5C:1484:TYR:HD1	7:5C:1568:LYS:CD	1.93	0.52
7:5C:1521:PHE:CE2	7:5C:1567:PHE:CD1	2.96	0.52
8:6C:208:LYS:NZ	8:6C:236:ASP:OD2	2.42	0.52
9:7E:35:ILE:HG23	9:7F:42:LEU:C	2.33	0.52
2:AB:25:SER:HG	2:AB:51:TYR:HH	1.55	0.52
2:AB:139:LEU:HD13	2:AB:168:SER:HB3	1.91	0.52
2:BD:139:LEU:HD13	2:BD:168:SER:HB3	1.91	0.52
1:BE:101:ASN:ND2	2:BF:252:LYS:HG3	2.17	0.52
2:BF:139:LEU:HD13	2:BF:168:SER:HB3	1.90	0.52
2:CD:139:LEU:HD13	2:CD:168:SER:HB3	1.91	0.52
1:EC:118:CYS:O	1:EC:122:ILE:HG12	2.10	0.52
2:HD:177:ASP:CA	1:HE:353:VAL:HG12	2.40	0.52
1:HE:60:LYS:HZ2	1:IE:283:HIS:CD2	2.27	0.52
1:HE:394:LYS:NZ	2:HF:347:ASN:OD1	2.42	0.52
1:IA:222:PRO:HD2	2:IB:324:LYS:HD3	1.92	0.52
2:IB:180:VAL:HG12	1:IC:258:ASN:OD1	2.10	0.52
1:JA:88:HIS:O	1:KA:280:LYS:CE	2.58	0.52
1:JE:92:LEU:H	1:KE:280:LYS:NZ	2.08	0.52
1:KA:85:GLN:HG2	1:LA:283:HIS:CD2	2.45	0.52
2:LD:306:ARG:HE	4:2A:149:ILE:CB	2.16	0.52
2:MB:221:THR:CG2	6:4A:189:ARG:NH1	2.73	0.52
5:3B:231:THR:N	5:3B:335:LYS:HD2	1.73	0.52
6:4A:179:ARG:CB	6:4A:179:ARG:CZ	2.85	0.52
6:4A:285:ARG:HH11	6:4A:285:ARG:CB	2.22	0.52
6:4C:179:ARG:CB	6:4C:179:ARG:CZ	2.85	0.52
6:4C:244:GLU:HG2	6:4C:284:LEU:HD13	1.80	0.52
6:4D:252:VAL:CG1	6:4D:292:VAL:HG22	2.40	0.52
7:5A:1152:GLU:OE2	8:6A:66:ARG:NH2	2.38	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1407:GLN:NE2	7:5A:1407:GLN:CA	2.73	0.52
7:5A:1548:VAL:CG1	7:5A:1566:GLU:C	2.78	0.52
7:5B:1407:GLN:NE2	7:5B:1407:GLN:CA	2.73	0.52
7:5B:1424:GLN:NE2	7:5B:1424:GLN:CA	2.72	0.52
7:5C:841:VAL:HG22	8:6C:109:ILE:HG12	1.92	0.52
8:6A:208:LYS:NZ	8:6A:236:ASP:OD2	2.42	0.52
9:7A:36:GLN:HA	9:7B:43:LEU:HD22	1.91	0.52
9:7E:7:LEU:HD23	9:7F:30:ARG:NE	2.13	0.52
2:AD:180:VAL:HG12	1:AE:258:ASN:OD1	2.09	0.51
2:CB:397:TRP:HE3	1:CC:257:THR:CG2	1.97	0.51
1:CE:208:ALA:O	1:CE:212:ILE:HG12	2.10	0.51
1:DA:118:CYS:O	1:DA:122:ILE:HG12	2.11	0.51
1:EA:118:CYS:O	1:EA:122:ILE:HG12	2.11	0.51
2:EB:220:PRO:CD	1:EC:326:LYS:HG2	2.38	0.51
1:EE:118:CYS:O	1:EE:122:ILE:HG12	2.11	0.51
1:FA:60:LYS:CD	1:GA:283:HIS:CA	2.31	0.51
1:FA:241:SER:OG	1:FA:250:VAL:O	2.23	0.51
2:FB:406:MET:O	2:FB:410:GLU:HG3	2.10	0.51
1:FC:56:THR:O	1:GC:285:GLN:CB	2.58	0.51
1:FC:118:CYS:O	1:FC:122:ILE:HG12	2.11	0.51
1:FC:208:ALA:O	1:FC:212:ILE:HG12	2.10	0.51
2:GD:406:MET:O	2:GD:410:GLU:HG3	2.10	0.51
1:IA:208:ALA:O	1:IA:212:ILE:HG12	2.10	0.51
1:IC:208:ALA:O	1:IC:212:ILE:HG12	2.10	0.51
2:JB:87:PRO:HG2	2:KB:277:GLY:C	2.27	0.51
2:JB:98:GLY:CA	1:JC:254:GLU:CG	2.48	0.51
2:JB:180:VAL:HG12	1:JC:258:ASN:OD1	2.10	0.51
1:JC:88:HIS:O	1:KC:280:LYS:CE	2.58	0.51
2:JF:86:ARG:HE	2:KF:281:TYR:HD2	1.57	0.51
2:KB:217:LEU:CB	6:4A:263:CYS:SG	2.98	0.51
1:KC:85:GLN:OE1	1:LC:283:HIS:N	2.41	0.51
1:KC:224:TYR:CE2	2:KD:246:LEU:HD11	2.43	0.51
1:LA:56:THR:OG1	1:MA:284:GLU:HA	2.09	0.51
2:LB:379:LYS:O	4:2C:166:ILE:CD1	2.57	0.51
2:LD:19:LYS:CE	6:4B:217:ASN:O	2.58	0.51
1:MA:179:THR:O	2:MB:350:LYS:HA	2.09	0.51
2:MB:406:MET:O	2:MB:410:GLU:HG3	2.10	0.51
2:MD:220:PRO:O	1:ME:324:VAL:HG13	2.10	0.51
2:MF:406:MET:O	2:MF:410:GLU:HG3	2.10	0.51
4:2C:10:LYS:HE2	4:2C:11:ASN:H	1.74	0.51
6:4B:252:VAL:CG1	6:4B:292:VAL:HG22	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1579:LYS:C	7:5C:1583:ASN:CG	2.75	0.51
8:6C:108:LYS:HB2	8:6C:111:SER:HB2	1.91	0.51
1:AA:208:ALA:O	1:AA:212:ILE:HG12	2.10	0.51
2:AD:177:ASP:CA	1:AE:353:VAL:HG12	2.40	0.51
1:AE:118:CYS:O	1:AE:122:ILE:HG12	2.11	0.51
2:BB:406:MET:O	2:BB:410:GLU:HG3	2.10	0.51
2:BF:406:MET:O	2:BF:410:GLU:HG3	2.10	0.51
1:CA:208:ALA:O	1:CA:212:ILE:HG12	2.10	0.51
1:CC:208:ALA:O	1:CC:212:ILE:HG12	2.10	0.51
1:DC:400:ALA:C	7:5A:775:PRO:HB3	2.34	0.51
2:EB:177:ASP:OD2	1:EC:248:LEU:HD23	2.06	0.51
1:FA:208:ALA:O	1:FA:212:ILE:HG12	2.10	0.51
2:FB:318:ARG:HH11	2:FB:358:PRO:HG3	1.75	0.51
1:FC:419:SER:CB	7:5A:1256:ARG:HG2	2.39	0.51
2:FD:318:ARG:HH11	2:FD:358:PRO:HG3	1.75	0.51
2:FD:406:MET:O	2:FD:410:GLU:HG3	2.10	0.51
1:FE:118:CYS:O	1:FE:122:ILE:HG12	2.11	0.51
2:FF:406:MET:O	2:FF:410:GLU:HG3	2.10	0.51
2:GB:318:ARG:HH11	2:GB:358:PRO:HG3	1.75	0.51
2:GB:406:MET:O	2:GB:410:GLU:HG3	2.10	0.51
2:GF:406:MET:O	2:GF:410:GLU:HG3	2.10	0.51
1:HE:369:ALA:HA	10:8U:21:UNK:CB	2.40	0.51
1:IE:118:CYS:O	1:IE:122:ILE:HG12	2.10	0.51
1:IE:394:LYS:NZ	2:IF:347:ASN:OD1	2.42	0.51
1:JC:88:HIS:HE1	1:KC:280:LYS:HB3	1.73	0.51
1:LA:60:LYS:CE	6:4C:101:ARG:NH2	2.74	0.51
1:LE:47:ASP:OD1	6:4B:203:LYS:CE	2.58	0.51
2:MD:406:MET:O	2:MD:410:GLU:HG3	2.10	0.51
6:4B:285:ARG:HH11	6:4B:285:ARG:CB	2.22	0.51
7:5A:1411:LYS:HD3	7:5A:1411:LYS:C	2.34	0.51
7:5A:1424:GLN:NE2	7:5A:1424:GLN:CA	2.72	0.51
7:5B:829:GLY:HA2	8:6B:109:ILE:CG2	2.41	0.51
7:5B:1436:ARG:HH21	7:5B:1440:GLU:HB2	1.74	0.51
7:5B:1552:LYS:CE	7:5B:1563:SER:CB	2.74	0.51
1:AA:118:CYS:O	1:AA:122:ILE:HG12	2.11	0.51
1:AC:118:CYS:O	1:AC:122:ILE:HG12	2.11	0.51
2:BD:394:PHE:CD1	1:BE:261:PRO:HA	2.46	0.51
2:BD:406:MET:O	2:BD:410:GLU:HG3	2.10	0.51
1:CA:222:PRO:CG	2:CB:324:LYS:CD	2.87	0.51
2:CD:406:MET:O	2:CD:410:GLU:HG3	2.10	0.51
1:CE:60:LYS:HD3	1:DE:283:HIS:CD2	2.45	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:176:SER:CB	1:DC:349:THR:HG1	2.22	0.51
2:DB:178:THR:HA	1:DC:352:LYS:HD3	1.92	0.51
1:DC:118:CYS:O	1:DC:122:ILE:HG12	2.11	0.51
2:ED:394:PHE:CD1	1:EE:261:PRO:HA	2.45	0.51
1:EE:208:ALA:O	1:EE:212:ILE:HG12	2.10	0.51
1:FA:118:CYS:O	1:FA:122:ILE:HG12	2.11	0.51
1:FC:401:LYS:HE3	2:FD:344:TRP:CZ3	2.46	0.51
1:FE:208:ALA:O	1:FE:212:ILE:HG12	2.10	0.51
2:GB:179:VAL:HG22	1:GC:258:ASN:CG	2.34	0.51
2:GD:318:ARG:HH11	2:GD:358:PRO:HG3	1.75	0.51
2:GF:58:ARG:CZ	2:HF:281:TYR:CE1	2.93	0.51
2:GF:58:ARG:CZ	2:HF:281:TYR:CE2	2.93	0.51
1:HA:208:ALA:O	1:HA:212:ILE:HG12	2.10	0.51
1:HA:222:PRO:HD2	2:HB:324:LYS:HD3	1.92	0.51
1:HC:208:ALA:O	1:HC:212:ILE:HG12	2.10	0.51
1:IE:208:ALA:O	1:IE:212:ILE:HG12	2.10	0.51
2:JD:98:GLY:CA	1:JE:254:GLU:CG	2.48	0.51
1:KA:208:ALA:O	1:KA:212:ILE:HG12	2.10	0.51
1:KA:398:MET:SD	2:KB:345:ILE:CG1	2.90	0.51
2:KB:130:LEU:CB	4:2C:37:GLY:HA2	2.37	0.51
2:LF:221:THR:HG22	6:4D:220:GLY:H	1.74	0.51
1:MA:279:GLU:HB2	6:4C:110:LYS:CE	2.40	0.51
1:MC:394:LYS:NZ	2:MD:347:ASN:OD1	2.43	0.51
2:MD:176:SER:OG	1:ME:349:THR:OG1	2.26	0.51
2:MD:178:THR:HA	1:ME:352:LYS:HD3	1.91	0.51
4:2A:10:LYS:HE2	4:2A:11:ASN:H	1.74	0.51
5:3A:170:PHE:CE1	5:3A:198:MET:HE2	2.46	0.51
5:3C:170:PHE:CE1	5:3C:198:MET:HE2	2.46	0.51
7:5A:1272:ILE:CD1	9:7B:11:TYR:HD2	2.23	0.51
7:5C:1424:GLN:NE2	7:5C:1424:GLN:CA	2.72	0.51
7:5C:1474:LEU:HD22	7:5C:1576:ILE:HD11	1.92	0.51
7:5C:1489:PHE:HA	7:5C:1492:SER:CB	2.27	0.51
8:6B:195:LYS:HG3	8:6B:201:ASP:OD1	2.11	0.51
9:7C:36:GLN:HA	9:7D:43:LEU:HD22	1.91	0.51
2:BB:10:GLY:O	2:BB:14:ASN:ND2	2.44	0.51
2:BF:10:GLY:O	2:BF:14:ASN:ND2	2.44	0.51
1:DA:208:ALA:O	1:DA:212:ILE:HG12	2.10	0.51
2:DB:176:SER:CB	1:DC:349:THR:OG1	2.58	0.51
1:DC:208:ALA:O	1:DC:212:ILE:HG12	2.10	0.51
2:DD:406:MET:O	2:DD:410:GLU:HG3	2.10	0.51
1:DE:118:CYS:O	1:DE:122:ILE:HG12	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:180:VAL:HG12	1:EC:258:ASN:OD1	2.10	0.51
2:EB:397:TRP:CB	1:EC:256:GLN:HE22	2.17	0.51
2:EF:86:ARG:CA	2:FF:281:TYR:CE1	2.91	0.51
2:EF:406:MET:O	2:EF:410:GLU:HG3	2.10	0.51
2:GB:55:THR:CG2	2:HB:284:LEU:H	2.14	0.51
1:GE:118:CYS:O	1:GE:122:ILE:HG12	2.11	0.51
1:HE:208:ALA:O	1:HE:212:ILE:HG12	2.10	0.51
2:IB:405:GLU:OE2	5:3C:36:LYS:HB3	2.10	0.51
1:IC:118:CYS:O	1:IC:122:ILE:HG12	2.11	0.51
1:IE:279:GLU:CG	10:8X:22:UNK:HA	2.40	0.51
2:JB:318:ARG:HH11	2:JB:358:PRO:HG3	1.75	0.51
1:KC:398:MET:SD	2:KD:345:ILE:CG1	2.90	0.51
2:KD:10:GLY:O	2:KD:14:ASN:ND2	2.44	0.51
2:KD:55:THR:CG2	2:LD:363:MET:CE	2.63	0.51
2:KD:77:ARG:CD	2:LD:281:TYR:CZ	2.93	0.51
1:KE:88:HIS:CA	1:LE:284:GLU:HB3	2.25	0.51
1:KE:208:ALA:O	1:KE:212:ILE:HG12	2.10	0.51
2:KF:318:ARG:HH11	2:KF:358:PRO:HG3	1.75	0.51
1:LA:35:GLN:HE21	6:4C:101:ARG:CB	2.19	0.51
1:LC:208:ALA:O	1:LC:212:ILE:HG12	2.10	0.51
1:LE:118:CYS:O	1:LE:122:ILE:HG12	2.11	0.51
1:LE:208:ALA:O	1:LE:212:ILE:HG12	2.10	0.51
2:LF:10:GLY:O	2:LF:14:ASN:ND2	2.44	0.51
1:MA:208:ALA:O	1:MA:212:ILE:HG12	2.10	0.51
1:MC:208:ALA:O	1:MC:212:ILE:HG12	2.10	0.51
1:ME:208:ALA:O	1:ME:212:ILE:HG12	2.10	0.51
4:2B:10:LYS:HE2	4:2B:11:ASN:H	1.74	0.51
5:3B:170:PHE:CE1	5:3B:198:MET:HE2	2.46	0.51
6:4A:244:GLU:HG2	6:4A:284:LEU:HD13	1.80	0.51
6:4A:252:VAL:CG1	6:4A:292:VAL:HG22	2.41	0.51
8:6A:195:LYS:HG3	8:6A:201:ASP:OD1	2.11	0.51
9:7C:7:LEU:CD2	9:7D:30:ARG:HE	2.22	0.51
1:AA:398:MET:SD	2:AB:345:ILE:CG1	2.90	0.51
1:AC:208:ALA:O	1:AC:212:ILE:HG12	2.10	0.51
1:AE:208:ALA:O	1:AE:212:ILE:HG12	2.10	0.51
2:BD:10:GLY:O	2:BD:14:ASN:ND2	2.44	0.51
2:CF:406:MET:O	2:CF:410:GLU:HG3	2.10	0.51
2:DB:391:ARG:HG3	1:DC:346:TRP:CD1	2.46	0.51
2:DB:406:MET:O	2:DB:410:GLU:HG3	2.10	0.51
2:DD:86:ARG:N	2:ED:281:TYR:CZ	2.78	0.51
1:DE:208:ALA:O	1:DE:212:ILE:HG12	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:208:ALA:O	1:EA:212:ILE:HG12	2.10	0.51
1:EC:208:ALA:O	1:EC:212:ILE:HG12	2.10	0.51
2:ED:55:THR:CG2	2:FD:284:LEU:N	2.73	0.51
2:ED:406:MET:O	2:ED:410:GLU:HG3	2.10	0.51
1:GA:118:CYS:O	1:GA:122:ILE:HG12	2.11	0.51
2:GB:135:ILE:HB	2:GB:166:THR:HG22	1.93	0.51
1:GC:118:CYS:O	1:GC:122:ILE:HG12	2.11	0.51
2:GD:177:ASP:CA	1:GE:353:VAL:HG12	2.40	0.51
2:GD:180:VAL:HG12	1:GE:258:ASN:OD1	2.09	0.51
2:GF:135:ILE:HB	2:GF:166:THR:HG22	1.93	0.51
2:GF:416:ASN:CG	7:5B:1327:LYS:CE	2.84	0.51
1:HC:60:LYS:HZ2	1:IC:283:HIS:CD2	2.28	0.51
2:HD:10:GLY:O	2:HD:14:ASN:ND2	2.44	0.51
2:HD:135:ILE:HB	2:HD:166:THR:HG22	1.93	0.51
2:HD:406:MET:O	2:HD:410:GLU:HG3	2.10	0.51
1:IA:118:CYS:O	1:IA:122:ILE:HG12	2.11	0.51
1:IA:398:MET:SD	2:IB:345:ILE:CG1	2.90	0.51
1:IC:398:MET:SD	2:ID:345:ILE:CG1	2.90	0.51
2:JB:406:MET:O	2:JB:410:GLU:HG3	2.10	0.51
2:JD:318:ARG:HH11	2:JD:358:PRO:HG3	1.75	0.51
2:JD:406:MET:O	2:JD:410:GLU:HG3	2.10	0.51
2:JF:88:ASP:CB	2:KF:278:SER:CB	2.79	0.51
1:KC:208:ALA:O	1:KC:212:ILE:HG12	2.10	0.51
2:KD:318:ARG:HH11	2:KD:358:PRO:HG3	1.75	0.51
1:KE:118:CYS:O	1:KE:122:ILE:HG12	2.11	0.51
2:KF:10:GLY:O	2:KF:14:ASN:ND2	2.44	0.51
2:LB:10:GLY:O	2:LB:14:ASN:ND2	2.44	0.51
1:LC:118:CYS:O	1:LC:122:ILE:HG12	2.11	0.51
2:LD:10:GLY:O	2:LD:14:ASN:ND2	2.44	0.51
6:4C:273:ARG:HH21	6:4C:273:ARG:HG3	1.75	0.51
6:4D:244:GLU:HG2	6:4D:284:LEU:HD13	1.80	0.51
6:4D:285:ARG:HH11	6:4D:285:ARG:CB	2.22	0.51
7:5A:1474:LEU:HD22	7:5A:1576:ILE:HD11	1.91	0.51
7:5A:1552:LYS:HZ1	7:5A:1563:SER:N	2.09	0.51
7:5B:1565:GLU:CB	7:5B:1568:LYS:HD2	2.38	0.51
7:5C:1548:VAL:CG1	7:5C:1566:GLU:C	2.78	0.51
8:6C:190:PRO:HD3	8:6C:256:TYR:OH	2.11	0.51
2:BB:220:PRO:HD2	1:BC:326:LYS:CG	2.36	0.51
1:BC:208:ALA:O	1:BC:212:ILE:HG12	2.10	0.51
1:CA:118:CYS:O	1:CA:122:ILE:HG12	2.11	0.51
2:CB:406:MET:O	2:CB:410:GLU:HG3	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:135:ILE:HB	2:CD:166:THR:HG22	1.93	0.51
1:CE:401:LYS:HE3	2:CF:344:TRP:CZ3	2.46	0.51
2:DF:406:MET:O	2:DF:410:GLU:HG3	2.10	0.51
2:EB:10:GLY:O	2:EB:14:ASN:ND2	2.44	0.51
2:EB:135:ILE:HB	2:EB:166:THR:HG22	1.93	0.51
2:EB:390:ARG:HD2	1:EC:439:THR:HG21	1.93	0.51
2:EB:406:MET:O	2:EB:410:GLU:HG3	2.10	0.51
1:EE:430:LYS:HZ1	7:5B:834:ASN:ND2	0.70	0.51
2:FB:394:PHE:HE2	1:FC:258:ASN:C	2.18	0.51
2:FF:55:THR:HG23	2:GF:283:ALA:HB1	1.84	0.51
1:GC:208:ALA:O	1:GC:212:ILE:HG12	2.10	0.51
2:GD:10:GLY:O	2:GD:14:ASN:ND2	2.44	0.51
2:GD:212:PHE:HZ	1:GE:326:LYS:CE	2.19	0.51
1:GE:208:ALA:O	1:GE:212:ILE:HG12	2.10	0.51
2:HB:10:GLY:O	2:HB:14:ASN:ND2	2.44	0.51
2:HF:135:ILE:HB	2:HF:166:THR:HG22	1.93	0.51
2:HF:406:MET:O	2:HF:410:GLU:HG3	2.10	0.51
2:IF:135:ILE:HB	2:IF:166:THR:HG22	1.93	0.51
1:JA:208:ALA:O	1:JA:212:ILE:HG12	2.10	0.51
1:JE:88:HIS:C	1:KE:280:LYS:HD3	2.32	0.51
2:JF:406:MET:O	2:JF:410:GLU:HG3	2.10	0.51
2:KB:10:GLY:O	2:KB:14:ASN:ND2	2.44	0.51
1:KC:118:CYS:O	1:KC:122:ILE:HG12	2.11	0.51
2:KD:276:ARG:CZ	6:4B:265:TYR:HB2	2.40	0.51
1:LA:118:CYS:O	1:LA:122:ILE:HG12	2.11	0.51
1:LE:47:ASP:OD1	6:4B:203:LYS:NZ	2.41	0.51
1:MA:118:CYS:O	1:MA:122:ILE:HG12	2.11	0.51
6:4B:244:GLU:HG2	6:4B:284:LEU:HD13	1.80	0.51
7:5A:1484:TYR:HD1	7:5A:1568:LYS:CD	1.92	0.51
7:5A:1565:GLU:CB	7:5A:1568:LYS:HD2	2.38	0.51
7:5B:1411:LYS:HD3	7:5B:1411:LYS:C	2.34	0.51
7:5C:1384:GLN:H	7:5C:1384:GLN:NE2	2.08	0.51
2:BF:86:ARG:HA	2:CF:281:TYR:HH	1.75	0.51
2:BF:86:ARG:CA	2:CF:281:TYR:HE1	2.18	0.51
1:CC:118:CYS:O	1:CC:122:ILE:HG12	2.11	0.51
2:CF:135:ILE:HB	2:CF:166:THR:HG22	1.93	0.51
1:DC:402:ARG:CZ	7:5A:777:ALA:HB1	2.30	0.51
2:DD:135:ILE:HB	2:DD:166:THR:HG22	1.93	0.51
2:DF:135:ILE:HB	2:DF:166:THR:HG22	1.93	0.51
2:FB:10:GLY:O	2:FB:14:ASN:ND2	2.44	0.51
2:FB:135:ILE:HB	2:FB:166:THR:HG22	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FF:318:ARG:HH11	2:FF:358:PRO:HG3	1.75	0.51
2:GD:135:ILE:HB	2:GD:166:THR:HG22	1.93	0.51
2:GF:10:GLY:O	2:GF:14:ASN:ND2	2.44	0.51
1:HA:118:CYS:O	1:HA:122:ILE:HG12	2.11	0.51
2:HF:10:GLY:O	2:HF:14:ASN:ND2	2.44	0.51
1:JC:208:ALA:O	1:JC:212:ILE:HG12	2.10	0.51
2:JD:135:ILE:HB	2:JD:166:THR:HG22	1.93	0.51
2:JF:135:ILE:HB	2:JF:166:THR:HG22	1.93	0.51
1:KA:357:TYR:OH	6:4C:257:LEU:CD2	2.59	0.51
1:LA:60:LYS:HE3	6:4C:101:ARG:CZ	2.41	0.51
1:LA:208:ALA:O	1:LA:212:ILE:HG12	2.10	0.51
1:LC:101:ASN:HD22	2:LD:252:LYS:HG3	1.75	0.51
2:MB:10:GLY:O	2:MB:14:ASN:ND2	2.44	0.51
1:MC:279:GLU:CD	6:4A:106:ALA:HB3	2.36	0.51
2:MD:180:VAL:HG12	1:ME:258:ASN:OD1	2.10	0.51
2:MD:394:PHE:CD1	1:ME:261:PRO:HA	2.45	0.51
6:4A:273:ARG:HH21	6:4A:273:ARG:HG3	1.75	0.51
6:4B:256:ASN:HD21	6:4B:260:ARG:HE	1.57	0.51
6:4C:247:LYS:CD	6:4C:247:LYS:H	2.12	0.51
7:5C:841:VAL:H	8:6C:109:ILE:HD11	1.67	0.51
7:5C:1347:LEU:N	7:5C:1347:LEU:CD1	2.73	0.51
8:6C:195:LYS:HG3	8:6C:201:ASP:OD1	2.11	0.51
1:AE:71:GLU:CD	2:AF:247:ASN:ND2	2.69	0.51
1:BA:208:ALA:O	1:BA:212:ILE:HG12	2.10	0.51
2:BB:179:VAL:HG22	1:BC:258:ASN:CG	2.36	0.51
1:BE:208:ALA:O	1:BE:212:ILE:HG12	2.10	0.51
1:CA:401:LYS:HE3	2:CB:344:TRP:CZ3	2.45	0.51
2:CB:135:ILE:HB	2:CB:166:THR:HG22	1.93	0.51
1:CE:118:CYS:O	1:CE:122:ILE:HG12	2.11	0.51
2:CF:10:GLY:O	2:CF:14:ASN:ND2	2.44	0.51
1:DC:71:GLU:CD	2:DD:247:ASN:ND2	2.69	0.51
2:ED:10:GLY:O	2:ED:14:ASN:ND2	2.44	0.51
2:ED:220:PRO:HD2	1:EE:326:LYS:CD	2.40	0.51
2:EF:10:GLY:O	2:EF:14:ASN:ND2	2.44	0.51
1:FC:402:ARG:HD3	7:5A:1259:TYR:CB	2.41	0.51
2:FD:10:GLY:O	2:FD:14:ASN:ND2	2.44	0.51
1:GA:208:ALA:O	1:GA:212:ILE:HG12	2.10	0.51
2:GF:318:ARG:HH11	2:GF:358:PRO:HG3	1.75	0.51
2:HB:135:ILE:HB	2:HB:166:THR:HG22	1.93	0.51
2:HB:180:VAL:HG12	1:HC:258:ASN:OD1	2.10	0.51
2:HB:406:MET:O	2:HB:410:GLU:HG3	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IB:135:ILE:HB	2:IB:166:THR:HG22	1.93	0.51
1:IC:100:ALA:HB1	2:ID:252:LYS:HA	1.91	0.51
2:ID:318:ARG:HH11	2:ID:358:PRO:HG3	1.75	0.51
1:JC:224:TYR:CE2	2:JD:246:LEU:HD11	2.43	0.51
2:JD:222:TYR:CD2	1:JE:247:ALA:HB1	2.44	0.51
1:JE:88:HIS:C	1:KE:280:LYS:CE	2.83	0.51
2:JF:10:GLY:O	2:JF:14:ASN:ND2	2.44	0.51
2:JF:318:ARG:HH11	2:JF:358:PRO:HG3	1.75	0.51
2:KF:54:ALA:CA	2:LF:285:THR:HG22	2.41	0.51
1:LE:101:ASN:ND2	2:LF:252:LYS:HG3	2.26	0.51
1:MC:118:CYS:O	1:MC:122:ILE:HG12	2.11	0.51
2:MD:10:GLY:O	2:MD:14:ASN:ND2	2.44	0.51
6:4B:179:ARG:CG	6:4B:179:ARG:NH1	2.72	0.51
6:4B:266:ASN:HB2	6:4B:273:ARG:HE	1.76	0.51
6:4B:273:ARG:HH21	6:4B:273:ARG:HG3	1.75	0.51
6:4C:252:VAL:CG1	6:4C:292:VAL:HG22	2.41	0.51
6:4D:179:ARG:CG	6:4D:179:ARG:NH1	2.72	0.51
6:4D:273:ARG:HH21	6:4D:273:ARG:HG3	1.74	0.51
7:5A:1384:GLN:H	7:5A:1384:GLN:NE2	2.08	0.51
7:5A:1552:LYS:HZ3	7:5A:1563:SER:HB2	0.68	0.51
7:5B:1474:LEU:HD22	7:5B:1576:ILE:HD11	1.91	0.51
7:5B:1487:ASN:OD1	7:5B:1568:LYS:CD	2.58	0.51
7:5C:1434:LYS:CE	7:5C:1434:LYS:CA	2.86	0.51
7:5C:1565:GLU:CB	7:5C:1568:LYS:HD2	2.38	0.51
1:AE:283:HIS:CB	2:MB:86:ARG:HH12	2.18	0.51
2:DB:87:PRO:HD2	2:EB:281:TYR:CE2	2.46	0.51
2:DB:135:ILE:HB	2:DB:166:THR:HG22	1.93	0.51
2:DB:394:PHE:CD1	1:DC:261:PRO:HA	2.46	0.51
2:ED:135:ILE:HB	2:ED:166:THR:HG22	1.93	0.51
1:FE:402:ARG:HD2	7:5B:1259:TYR:HD2	1.74	0.51
2:FF:10:GLY:O	2:FF:14:ASN:ND2	2.44	0.51
2:FF:135:ILE:HB	2:FF:166:THR:HG22	1.93	0.51
2:GB:10:GLY:O	2:GB:14:ASN:ND2	2.44	0.51
2:GB:179:VAL:HG22	1:GC:258:ASN:CB	2.41	0.51
2:GF:54:ALA:HB1	2:HF:281:TYR:O	2.11	0.51
2:ID:135:ILE:HB	2:ID:166:THR:HG22	1.93	0.51
2:IF:318:ARG:HH11	2:IF:358:PRO:HG3	1.75	0.51
2:IF:424:GLN:CG	7:5B:1413:GLN:HE21	2.23	0.51
1:JA:282:TYR:CZ	10:8Y:17:UNK:CB	2.93	0.51
2:JB:135:ILE:HB	2:JB:166:THR:HG22	1.93	0.51
2:JD:10:GLY:O	2:JD:14:ASN:ND2	2.44	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:208:ALA:O	1:JE:212:ILE:HG12	2.10	0.51
1:KA:118:CYS:O	1:KA:122:ILE:HG12	2.11	0.51
2:KD:406:MET:O	2:KD:410:GLU:HG3	2.10	0.51
1:KE:71:GLU:CD	2:KF:247:ASN:ND2	2.69	0.51
2:LD:379:LYS:HE3	4:2A:164:ARG:O	2.11	0.51
2:MB:222:TYR:O	2:MB:226:ASN:ND2	2.28	0.51
6:4A:179:ARG:CG	6:4A:179:ARG:NH1	2.72	0.51
6:4A:266:ASN:HB2	6:4A:273:ARG:HE	1.76	0.51
6:4B:241:LYS:C	6:4B:241:LYS:HD3	2.32	0.51
6:4C:266:ASN:HB2	6:4C:273:ARG:HE	1.76	0.51
6:4D:266:ASN:HB2	6:4D:273:ARG:HE	1.76	0.51
7:5A:1347:LEU:N	7:5A:1347:LEU:CD1	2.73	0.51
7:5A:1487:ASN:OD1	7:5A:1568:LYS:CD	2.58	0.51
7:5B:1484:TYR:C	7:5B:1487:ASN:HB2	2.36	0.51
7:5C:1552:LYS:HZ1	7:5C:1563:SER:N	2.09	0.51
2:AB:135:ILE:HB	2:AB:166:THR:HG22	1.93	0.51
1:AC:224:TYR:CE2	2:AD:246:LEU:HD11	2.43	0.51
1:AC:398:MET:SD	2:AD:345:ILE:CG1	2.90	0.51
2:AD:25:SER:HG	2:AD:51:TYR:HH	1.56	0.51
2:AF:25:SER:HG	2:AF:51:TYR:HH	1.55	0.51
2:DB:222:TYR:HD2	1:DC:247:ALA:HB1	1.75	0.51
1:EC:178:SER:OG	2:ED:347:ASN:HB3	2.11	0.51
2:ED:55:THR:HG23	2:FD:283:ALA:CB	2.40	0.51
1:FA:11:GLN:HE22	2:FB:246:LEU:HA	1.75	0.51
1:FC:241:SER:OG	1:FC:250:VAL:O	2.23	0.51
2:FD:135:ILE:HB	2:FD:166:THR:HG22	1.93	0.51
2:FD:179:VAL:CG2	1:FE:258:ASN:CA	2.89	0.51
1:HC:118:CYS:O	1:HC:122:ILE:HG12	2.11	0.51
2:IB:10:GLY:O	2:IB:14:ASN:ND2	2.44	0.51
2:ID:10:GLY:O	2:ID:14:ASN:ND2	2.44	0.51
1:IE:71:GLU:CD	2:IF:247:ASN:ND2	2.69	0.51
1:JA:224:TYR:CE2	2:JB:246:LEU:HD11	2.44	0.51
1:KA:222:PRO:HD2	2:KB:324:LYS:HD3	1.92	0.51
2:KB:135:ILE:HB	2:KB:166:THR:HG22	1.93	0.51
1:KC:359:PRO:HB3	6:4A:299:TYR:CZ	2.40	0.51
2:KD:135:ILE:HB	2:KD:166:THR:HG22	1.93	0.51
2:KD:177:ASP:CA	1:KE:353:VAL:HG12	2.40	0.51
2:LB:406:MET:O	2:LB:410:GLU:HG3	2.10	0.51
1:LE:245:ASP:OD1	6:4B:216:ARG:NE	2.44	0.51
1:ME:118:CYS:O	1:ME:122:ILE:HG12	2.11	0.51
2:MF:10:GLY:O	2:MF:14:ASN:ND2	2.44	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MF:318:ARG:HH11	2:MF:358:PRO:HG3	1.75	0.51
6:4A:247:LYS:CD	6:4A:247:LYS:H	2.12	0.51
6:4C:251:TYR:HB2	6:4C:288:TYR:HE2	1.74	0.51
6:4D:106:ALA:HB3	6:4D:107:MET:HE3	1.93	0.51
6:4D:139:ASP:CG	6:4D:140:PRO:HD2	2.34	0.51
7:5A:1548:VAL:CG1	7:5A:1569:GLU:CB	2.54	0.51
7:5B:1272:ILE:HG12	9:7D:11:TYR:CE2	2.46	0.51
7:5B:1384:GLN:H	7:5B:1384:GLN:NE2	2.08	0.51
7:5C:841:VAL:O	8:6C:9:LEU:O	2.29	0.51
7:5C:1487:ASN:OD1	7:5C:1568:LYS:CD	2.58	0.51
9:7A:10:TYR:OH	9:7B:31:PRO:O	2.21	0.51
9:7A:15:VAL:HG12	9:7B:35:ILE:CB	2.41	0.51
9:7A:39:GLY:N	9:7B:43:LEU:HD21	2.26	0.51
9:7C:15:VAL:HG13	9:7D:35:ILE:CD1	1.92	0.51
1:AA:224:TYR:CE2	2:AB:246:LEU:HD11	2.44	0.50
2:AB:179:VAL:HG22	1:AC:258:ASN:CB	2.41	0.50
2:AD:135:ILE:HB	2:AD:166:THR:HG22	1.93	0.50
1:AE:176:GLN:O	2:AF:347:ASN:ND2	2.40	0.50
2:AF:135:ILE:HB	2:AF:166:THR:HG22	1.93	0.50
2:BB:135:ILE:HB	2:BB:166:THR:HG22	1.93	0.50
2:BF:86:ARG:HA	2:CF:281:TYR:OH	2.10	0.50
2:CD:10:GLY:O	2:CD:14:ASN:ND2	2.44	0.50
1:DA:222:PRO:CG	2:DB:324:LYS:CD	2.88	0.50
2:DB:177:ASP:OD2	1:DC:248:LEU:HD23	2.07	0.50
2:EB:157:GLU:HA	7:5C:945:LYS:NZ	2.25	0.50
2:EB:177:ASP:CA	1:EC:353:VAL:HG12	2.41	0.50
1:EC:393:HIS:CE1	7:5A:814:LYS:CG	2.90	0.50
2:ED:222:TYR:CE2	1:EE:325:PRO:HG2	2.45	0.50
1:EE:401:LYS:CE	2:EF:344:TRP:CZ3	2.74	0.50
2:EF:135:ILE:HB	2:EF:166:THR:HG22	1.93	0.50
2:FB:222:TYR:CD2	1:FC:247:ALA:HB1	2.46	0.50
2:GB:55:THR:H	2:HB:283:ALA:CA	2.24	0.50
2:HB:179:VAL:HG22	1:HC:258:ASN:CB	2.41	0.50
1:HE:118:CYS:O	1:HE:122:ILE:HG12	2.11	0.50
2:IB:318:ARG:HH11	2:IB:358:PRO:HG3	1.75	0.50
1:JC:100:ALA:HB1	2:JD:252:LYS:HA	1.92	0.50
2:KB:406:MET:O	2:KB:410:GLU:HG3	2.10	0.50
2:KF:135:ILE:HB	2:KF:166:THR:HG22	1.93	0.50
2:LB:135:ILE:HB	2:LB:166:THR:HG22	1.93	0.50
2:LD:406:MET:O	2:LD:410:GLU:HG3	2.10	0.50
2:LF:58:ARG:NH2	2:MF:281:TYR:CZ	2.79	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MC:279:GLU:OE1	6:4A:107:MET:HA	2.10	0.50
2:MD:318:ARG:HH11	2:MD:358:PRO:HG3	1.75	0.50
1:ME:96:LYS:HE2	2:MF:1:MET:HE3	1.93	0.50
6:4D:256:ASN:HD21	6:4D:260:ARG:HE	1.58	0.50
7:5A:1404:LYS:HZ1	7:5A:1408:GLU:HB2	1.75	0.50
7:5A:1484:TYR:C	7:5A:1487:ASN:HB2	2.36	0.50
7:5A:1552:LYS:CE	7:5A:1563:SER:CB	2.73	0.50
7:5B:1416:LYS:HA	7:5B:1416:LYS:CE	2.41	0.50
8:6A:177:TYR:HE1	8:6A:199:ILE:HD13	1.74	0.50
8:6B:177:TYR:HE1	8:6B:199:ILE:HD13	1.74	0.50
2:AF:356:ILE:HG23	6:4A:152:PHE:CE1	2.45	0.50
2:AF:357:PRO:O	6:4A:151:ARG:CZ	2.59	0.50
1:BA:176:GLN:O	2:BB:347:ASN:ND2	2.36	0.50
2:BD:135:ILE:HB	2:BD:166:THR:HG22	1.93	0.50
2:BF:135:ILE:HB	2:BF:166:THR:HG22	1.93	0.50
1:FA:56:THR:C	1:GA:285:GLN:HB2	2.35	0.50
2:FD:397:TRP:CH2	1:FE:255:PHE:O	2.57	0.50
2:HD:177:ASP:CG	1:HE:353:VAL:HG13	2.00	0.50
2:JB:10:GLY:O	2:JB:14:ASN:ND2	2.44	0.50
1:JC:279:GLU:CD	10:8Z:22:UNK:CB	2.84	0.50
2:KB:318:ARG:HH11	2:KB:358:PRO:HG3	1.75	0.50
2:KF:406:MET:O	2:KF:410:GLU:HG3	2.10	0.50
2:LD:135:ILE:HB	2:LD:166:THR:HG22	1.93	0.50
2:LF:406:MET:O	2:LF:410:GLU:HG3	2.10	0.50
1:ME:372:MET:CE	6:4B:96:VAL:CB	2.89	0.50
6:4A:106:ALA:HB3	6:4A:107:MET:HE3	1.94	0.50
6:4A:282:ASN:HA	6:4A:285:ARG:HB2	1.93	0.50
6:4B:139:ASP:CG	6:4B:140:PRO:HD2	2.34	0.50
6:4B:248:VAL:HA	6:4B:251:TYR:CD2	2.46	0.50
6:4B:282:ASN:HA	6:4B:285:ARG:HB2	1.93	0.50
6:4C:179:ARG:CG	6:4C:179:ARG:NH1	2.72	0.50
6:4C:282:ASN:HA	6:4C:285:ARG:HB2	1.93	0.50
6:4D:248:VAL:HA	6:4D:251:TYR:CD2	2.47	0.50
6:4D:282:ASN:HA	6:4D:285:ARG:HB2	1.93	0.50
7:5A:1267:CYS:SG	9:7A:12:GLU:OE2	2.56	0.50
7:5A:1416:LYS:HA	7:5A:1416:LYS:CE	2.41	0.50
7:5B:943:LEU:HD22	7:5B:1030:PHE:CE2	2.46	0.50
7:5B:1347:LEU:N	7:5B:1347:LEU:CD1	2.73	0.50
7:5B:1399:LYS:NZ	7:5B:1399:LYS:CB	2.73	0.50
2:CD:176:SER:CB	1:CE:349:THR:OG1	2.58	0.50
1:FA:181:VAL:HG12	2:FB:348:ASN:HA	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:402:ARG:HD3	7:5C:1259:TYR:HB2	1.91	0.50
1:FC:419:SER:C	7:5A:1256:ARG:HH21	2.18	0.50
1:FE:241:SER:OG	1:FE:250:VAL:O	2.23	0.50
2:GB:212:PHE:CZ	1:GC:326:LYS:CE	2.93	0.50
2:KB:179:VAL:HG22	1:KC:258:ASN:CB	2.41	0.50
2:KD:32:PRO:HG2	6:4B:279:LEU:HD21	1.92	0.50
2:LB:19:LYS:CE	6:4A:217:ASN:O	2.60	0.50
1:LE:60:LYS:CE	6:4B:101:ARG:CZ	2.89	0.50
2:LF:135:ILE:HB	2:LF:166:THR:HG22	1.93	0.50
2:MB:135:ILE:HB	2:MB:166:THR:HG22	1.93	0.50
2:MD:135:ILE:HB	2:MD:166:THR:HG22	1.93	0.50
1:ME:222:PRO:CD	2:MF:324:LYS:HD3	2.41	0.50
7:5A:1399:LYS:NZ	7:5A:1399:LYS:CB	2.73	0.50
7:5B:1484:TYR:HD1	7:5B:1568:LYS:CD	1.92	0.50
7:5C:1416:LYS:HA	7:5C:1416:LYS:CE	2.41	0.50
7:5C:1436:ARG:CZ	7:5C:1436:ARG:C	2.85	0.50
7:5C:1484:TYR:C	7:5C:1487:ASN:HB2	2.36	0.50
8:6A:190:PRO:HD3	8:6A:256:TYR:OH	2.11	0.50
9:7C:15:VAL:HG12	9:7D:35:ILE:CB	2.41	0.50
2:BD:179:VAL:CG2	1:BE:258:ASN:O	2.36	0.50
2:CB:10:GLY:O	2:CB:14:ASN:ND2	2.44	0.50
2:DB:10:GLY:O	2:DB:14:ASN:ND2	2.44	0.50
2:FB:55:THR:CG2	2:GB:283:ALA:CA	2.58	0.50
1:HE:71:GLU:CD	2:HF:247:ASN:ND2	2.69	0.50
2:IB:98:GLY:CA	1:IC:254:GLU:CG	2.48	0.50
2:IB:179:VAL:HG22	1:IC:258:ASN:CB	2.41	0.50
2:IB:406:MET:O	2:IB:410:GLU:HG3	2.10	0.50
2:ID:406:MET:O	2:ID:410:GLU:HG3	2.10	0.50
2:IF:10:GLY:O	2:IF:14:ASN:ND2	2.44	0.50
2:JB:179:VAL:HG22	1:JC:258:ASN:CB	2.41	0.50
1:JE:118:CYS:O	1:JE:122:ILE:HG12	2.11	0.50
2:LB:223:GLY:CA	6:4A:219:ASN:HD22	2.24	0.50
2:LD:221:THR:CG2	6:4B:219:ASN:ND2	2.75	0.50
6:4A:248:VAL:HA	6:4A:251:TYR:CD2	2.47	0.50
6:4A:251:TYR:HB2	6:4A:288:TYR:HE2	1.74	0.50
6:4C:248:VAL:HA	6:4C:251:TYR:CD2	2.47	0.50
7:5A:1030:PHE:CZ	7:5A:1034:ILE:CD1	2.95	0.50
7:5A:1271:ILE:CA	9:7A:20:LEU:CD2	2.48	0.50
7:5A:1275:ILE:HG21	9:7B:11:TYR:HH	1.76	0.50
7:5A:1370:LYS:CA	7:5A:1370:LYS:CE	2.85	0.50
7:5A:1436:ARG:CZ	7:5A:1436:ARG:C	2.85	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:872:GLU:OE1	8:6B:90:ARG:NH1	2.44	0.50
7:5B:1030:PHE:CZ	7:5B:1034:ILE:CD1	2.95	0.50
7:5B:1370:LYS:CA	7:5B:1370:LYS:CE	2.85	0.50
7:5B:1471:ILE:O	7:5B:1473:GLU:N	2.39	0.50
9:7A:15:VAL:HG13	9:7B:35:ILE:CD1	1.92	0.50
2:AB:10:GLY:O	2:AB:14:ASN:ND2	2.44	0.50
1:AC:221:ARG:HE	6:4C:156:PHE:HE2	1.49	0.50
2:AF:10:GLY:O	2:AF:14:ASN:ND2	2.44	0.50
2:BB:86:ARG:HA	2:CB:281:TYR:OH	2.12	0.50
1:FE:100:ALA:HB1	2:FF:252:LYS:CA	2.41	0.50
1:GE:71:GLU:CD	2:GF:247:ASN:ND2	2.69	0.50
1:HE:282:TYR:HE2	10:8U:19:UNK:CA	2.12	0.50
1:IE:176:GLN:O	2:IF:347:ASN:ND2	2.40	0.50
2:JB:212:PHE:CZ	1:JC:326:LYS:CE	2.93	0.50
2:KB:273:LEU:CA	6:4A:268:LEU:HG	2.37	0.50
2:LD:294:PHE:HD2	4:2A:147:PHE:HZ	1.59	0.50
2:LD:379:LYS:O	4:2A:166:ILE:HD13	2.08	0.50
6:4A:139:ASP:CG	6:4A:140:PRO:HD2	2.34	0.50
6:4A:251:TYR:CE2	6:4A:280:VAL:HG12	2.46	0.50
6:4C:139:ASP:CG	6:4C:140:PRO:HD2	2.34	0.50
7:5A:943:LEU:HD22	7:5A:1030:PHE:CE2	2.46	0.50
7:5A:1434:LYS:CE	7:5A:1434:LYS:CA	2.86	0.50
7:5B:1436:ARG:CZ	7:5B:1436:ARG:C	2.85	0.50
7:5B:1515:GLU:OE1	7:5B:1563:SER:HB2	2.06	0.50
7:5B:1552:LYS:NZ	7:5B:1563:SER:N	2.59	0.50
7:5C:1030:PHE:CZ	7:5C:1034:ILE:CD1	2.95	0.50
7:5C:1246:LEU:CA	9:7F:12:GLU:CD	2.80	0.50
7:5C:1370:LYS:CA	7:5C:1370:LYS:CE	2.85	0.50
7:5C:1399:LYS:NZ	7:5C:1399:LYS:CB	2.73	0.50
7:5C:1552:LYS:NZ	7:5C:1563:SER:N	2.59	0.50
8:6B:190:PRO:HD3	8:6B:256:TYR:OH	2.11	0.50
9:7C:39:GLY:N	9:7D:43:LEU:HD21	2.27	0.50
2:AB:180:VAL:HG12	1:AC:258:ASN:OD1	2.10	0.50
2:AD:10:GLY:O	2:AD:14:ASN:ND2	2.44	0.50
1:BA:118:CYS:O	1:BA:122:ILE:HG12	2.11	0.50
2:BB:177:ASP:HA	1:BC:353:VAL:HG12	1.94	0.50
1:BC:118:CYS:O	1:BC:122:ILE:HG12	2.11	0.50
1:CA:60:LYS:NZ	1:DA:283:HIS:CE1	2.76	0.50
2:CF:86:ARG:CG	2:DF:281:TYR:CE1	2.47	0.50
1:DA:62:VAL:CG2	1:EA:283:HIS:O	2.50	0.50
1:FC:222:PRO:HG2	2:FD:324:LYS:CD	2.40	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FD:332:ASN:HB2	7:5A:909:ASN:OD1	2.11	0.50
2:GF:416:ASN:HB3	7:5B:1327:LYS:HE2	1.92	0.50
2:HB:212:PHE:CZ	1:HC:326:LYS:CE	2.93	0.50
2:IF:406:MET:O	2:IF:410:GLU:HG3	2.10	0.50
1:JC:118:CYS:O	1:JC:122:ILE:HG12	2.11	0.50
1:KA:359:PRO:HG3	6:4C:299:TYR:CD2	2.47	0.50
2:LB:413:SER:HB2	4:2C:171:VAL:HG22	1.92	0.50
2:LD:179:VAL:HG22	1:LE:258:ASN:HA	1.92	0.50
2:LF:19:LYS:NZ	6:4D:217:ASN:O	2.43	0.50
2:MB:318:ARG:HH11	2:MB:358:PRO:HG3	1.75	0.50
2:MF:135:ILE:HB	2:MF:166:THR:HG22	1.93	0.50
4:2A:144:ASN:O	4:2A:144:ASN:ND2	2.43	0.50
4:2B:144:ASN:O	4:2B:144:ASN:ND2	2.43	0.50
6:4B:251:TYR:HB2	6:4B:288:TYR:HE2	1.74	0.50
7:5C:890:ILE:CD1	7:5C:1072:PHE:CE1	2.95	0.50
8:6A:62:ALA:HB2	8:6A:87:TYR:CE1	2.47	0.50
8:6B:62:ALA:HB2	8:6B:87:TYR:CE1	2.47	0.50
8:6C:62:ALA:HB2	8:6C:87:TYR:CE1	2.47	0.50
8:6C:136:LEU:HD23	8:6C:140:GLN:CB	2.42	0.50
2:DD:10:GLY:O	2:DD:14:ASN:ND2	2.44	0.50
2:DF:10:GLY:O	2:DF:14:ASN:ND2	2.44	0.50
2:FD:220:PRO:HD2	1:FE:326:LYS:CE	2.35	0.50
1:FE:422:ARG:CZ	7:5B:1170:THR:HA	2.35	0.50
1:GC:409:VAL:CB	5:3C:383:GLU:OE1	2.60	0.50
2:GD:409:THR:CG2	7:5A:1330:ILE:HD13	2.40	0.50
1:GE:176:GLN:O	2:GF:347:ASN:ND2	2.40	0.50
2:GF:409:THR:O	7:5B:1330:ILE:HD13	2.12	0.50
1:HC:369:ALA:HB1	10:8T:18:UNK:HA	1.93	0.50
1:HC:398:MET:SD	2:HD:345:ILE:CG1	2.90	0.50
1:JE:71:GLU:CD	2:JF:247:ASN:ND2	2.69	0.50
1:KA:357:TYR:OH	6:4C:257:LEU:HD23	2.12	0.50
2:LB:379:LYS:HZ1	4:2C:166:ILE:CB	2.25	0.50
2:LD:179:VAL:HG21	1:LE:258:ASN:CA	2.41	0.50
2:LD:179:VAL:CG2	1:LE:258:ASN:O	2.37	0.50
2:LF:221:THR:CG2	6:4D:219:ASN:ND2	2.75	0.50
2:MD:179:VAL:HG22	1:ME:258:ASN:CB	2.42	0.50
1:ME:357:TYR:CE2	6:4B:185:ARG:NH2	2.71	0.50
4:2C:144:ASN:O	4:2C:144:ASN:ND2	2.43	0.50
6:4B:251:TYR:CE2	6:4B:280:VAL:HG12	2.46	0.50
6:4C:251:TYR:CE2	6:4C:280:VAL:HG12	2.46	0.50
7:5A:890:ILE:CD1	7:5A:1072:PHE:CE1	2.95	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1552:LYS:NZ	7:5A:1563:SER:N	2.59	0.50
7:5C:836:ARG:CG	7:5C:836:ARG:NH1	2.71	0.50
9:7C:18:VAL:HG21	9:7D:35:ILE:CG2	2.30	0.50
1:BA:71:GLU:CD	2:BB:247:ASN:ND2	2.69	0.50
2:GB:180:VAL:HG12	1:GC:258:ASN:OD1	2.10	0.50
2:KB:87:PRO:HD2	2:LB:282:ARG:CG	2.39	0.50
2:KD:221:THR:HB	6:4B:261:SER:O	2.12	0.50
1:KE:237:SER:HA	1:KE:320:ARG:HH11	1.77	0.50
2:MD:221:THR:CB	6:4B:189:ARG:HH12	2.24	0.50
6:4A:241:LYS:C	6:4A:241:LYS:HD3	2.32	0.50
6:4D:251:TYR:HB2	6:4D:288:TYR:HE2	1.74	0.50
7:5B:890:ILE:CD1	7:5B:1072:PHE:CE1	2.95	0.50
7:5C:943:LEU:HD22	7:5C:1030:PHE:CE2	2.46	0.50
7:5C:1113:ILE:HG12	7:5C:1157:THR:CG2	2.41	0.50
9:7E:11:TYR:CZ	9:7F:26:LEU:HB3	2.43	0.50
1:AC:221:ARG:HG3	6:4C:156:PHE:CZ	2.47	0.50
2:AD:356:ILE:CD1	6:4C:152:PHE:CD1	2.82	0.50
2:BB:212:PHE:CZ	1:BC:326:LYS:CE	2.91	0.50
1:BE:71:GLU:CD	2:BF:247:ASN:ND2	2.69	0.50
1:BE:118:CYS:O	1:BE:122:ILE:HG12	2.11	0.50
1:DE:412:GLY:HA2	7:5B:792:TYR:CZ	2.47	0.50
1:EA:222:PRO:CG	2:EB:324:LYS:CD	2.87	0.50
1:EA:430:LYS:HZ1	7:5C:834:ASN:ND2	0.51	0.50
2:FD:208:TYR:CD2	1:FE:326:LYS:HB3	2.46	0.50
2:GD:409:THR:CG2	7:5A:1330:ILE:CD1	2.64	0.50
1:JA:89:PRO:HD2	1:KA:283:HIS:CE1	2.27	0.50
1:JA:118:CYS:O	1:JA:122:ILE:HG12	2.11	0.50
2:KF:25:SER:HG	2:KF:51:TYR:HH	1.54	0.50
2:LB:212:PHE:CZ	1:LC:326:LYS:CG	2.91	0.50
1:LC:47:ASP:OD1	6:4A:203:LYS:CE	2.59	0.50
1:LC:56:THR:O	1:MC:285:GLN:HB3	2.10	0.50
2:LF:337:ASN:ND2	4:2B:148:ASN:H	2.10	0.50
2:MB:221:THR:HG21	6:4A:189:ARG:NH1	2.26	0.50
1:MC:71:GLU:CD	2:MD:247:ASN:HD22	2.19	0.50
1:MC:179:THR:O	2:MD:350:LYS:HA	2.11	0.50
1:MC:401:LYS:CE	2:MD:344:TRP:CZ3	2.69	0.50
6:4B:247:LYS:CD	6:4B:247:LYS:H	2.12	0.50
6:4D:247:LYS:CD	6:4D:247:LYS:H	2.12	0.50
7:5A:1386:LYS:NZ	7:5A:1386:LYS:N	2.60	0.50
7:5A:1418:GLN:HA	7:5A:1418:GLN:OE1	2.12	0.50
7:5B:1272:ILE:CD1	9:7D:11:TYR:CD2	2.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1386:LYS:NZ	7:5B:1386:LYS:N	2.60	0.50
7:5B:1418:GLN:HA	7:5B:1418:GLN:OE1	2.12	0.50
7:5C:1418:GLN:OE1	7:5C:1418:GLN:HA	2.12	0.50
7:5C:1552:LYS:CE	7:5C:1563:SER:CB	2.73	0.50
9:7C:42:LEU:HD13	9:7D:39:GLY:HA3	1.88	0.50
1:AA:237:SER:HA	1:AA:320:ARG:HH11	1.77	0.49
1:AC:237:SER:HA	1:AC:320:ARG:HH11	1.77	0.49
2:BD:179:VAL:HG22	1:BE:258:ASN:CB	2.42	0.49
1:DC:176:GLN:O	2:DD:347:ASN:ND2	2.35	0.49
1:FE:402:ARG:HD3	7:5B:1259:TYR:CG	2.44	0.49
2:IB:212:PHE:CZ	1:IC:326:LYS:CE	2.93	0.49
1:IE:278:ALA:CB	10:8X:18:UNK:O	2.41	0.49
1:JA:90:GLU:HG2	1:KA:280:LYS:HB3	1.93	0.49
1:KA:237:SER:HA	1:KA:320:ARG:HH11	1.77	0.49
1:KC:237:SER:HA	1:KC:320:ARG:HH11	1.77	0.49
2:KF:159:TYR:CE2	4:2B:36:THR:N	2.53	0.49
2:KF:221:THR:HB	6:4D:261:SER:O	2.10	0.49
1:LA:222:PRO:HG2	2:LB:324:LYS:CB	2.36	0.49
2:LB:54:ALA:CA	2:MB:283:ALA:HB2	2.42	0.49
6:4D:251:TYR:CE2	6:4D:280:VAL:HG12	2.46	0.49
7:5A:1113:ILE:HG12	7:5A:1157:THR:CG2	2.41	0.49
7:5A:1471:ILE:O	7:5A:1473:GLU:N	2.39	0.49
7:5C:1548:VAL:CB	7:5C:1566:GLU:O	2.60	0.49
8:6A:136:LEU:HD23	8:6A:140:GLN:CB	2.42	0.49
2:AD:281:TYR:CZ	1:MA:60:LYS:NZ	2.80	0.49
1:AE:237:SER:HA	1:AE:320:ARG:HH11	1.77	0.49
2:BB:179:VAL:CG2	1:BC:258:ASN:O	2.38	0.49
2:BB:394:PHE:CD1	1:BC:261:PRO:HA	2.47	0.49
1:BC:237:SER:HA	1:BC:320:ARG:HH11	1.77	0.49
1:BE:237:SER:HA	1:BE:320:ARG:HH11	1.77	0.49
2:CB:179:VAL:HG22	1:CC:258:ASN:CB	2.42	0.49
2:FB:54:ALA:CB	2:GB:283:ALA:HB2	2.25	0.49
2:FB:372:THR:HA	2:FB:422:TYR:CE2	2.48	0.49
1:FC:56:THR:O	1:GC:285:GLN:CA	2.60	0.49
2:FF:372:THR:HA	2:FF:422:TYR:CE2	2.48	0.49
1:GA:60:LYS:HZ3	1:HA:283:HIS:CE1	2.27	0.49
1:GA:89:PRO:CD	1:HA:280:LYS:CD	2.89	0.49
1:GA:179:THR:O	2:GB:350:LYS:HA	2.12	0.49
2:GD:58:ARG:CZ	2:HD:281:TYR:CZ	2.95	0.49
2:HB:372:THR:HA	2:HB:422:TYR:CE2	2.48	0.49
1:HC:141:VAL:HG12	1:HC:171:ILE:O	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HE:141:VAL:HG12	1:HE:171:ILE:O	2.13	0.49
1:JC:237:SER:HA	1:JC:320:ARG:HH11	1.77	0.49
1:JE:141:VAL:HG12	1:JE:171:ILE:O	2.12	0.49
2:LB:221:THR:CG2	6:4A:219:ASN:ND2	2.75	0.49
2:MB:180:VAL:HG12	1:MC:258:ASN:OD1	2.11	0.49
1:MC:178:SER:OG	2:MD:347:ASN:HB3	2.11	0.49
2:MD:218:THR:OG1	6:4B:196:GLN:NE2	2.40	0.49
7:5A:847:GLY:HA3	8:6A:17:LYS:NZ	2.27	0.49
7:5A:1548:VAL:CB	7:5A:1566:GLU:O	2.60	0.49
7:5B:1434:LYS:CE	7:5B:1434:LYS:CA	2.86	0.49
7:5B:1548:VAL:CG1	7:5B:1569:GLU:CB	2.54	0.49
7:5C:1386:LYS:N	7:5C:1386:LYS:NZ	2.60	0.49
7:5C:1404:LYS:C	7:5C:1404:LYS:CE	2.85	0.49
8:6B:136:LEU:HD23	8:6B:140:GLN:CB	2.42	0.49
1:AA:222:PRO:HG3	2:AB:324:LYS:HD3	1.94	0.49
2:AB:98:GLY:CA	1:AC:254:GLU:CG	2.48	0.49
2:AD:98:GLY:CA	1:AE:254:GLU:CG	2.48	0.49
1:CA:60:LYS:HZ3	1:DA:283:HIS:CE1	2.29	0.49
1:GA:60:LYS:NZ	1:HA:283:HIS:CG	2.70	0.49
1:GE:89:PRO:CG	1:HE:280:LYS:HD2	2.41	0.49
1:HA:179:THR:O	2:HB:350:LYS:HA	2.12	0.49
2:HD:372:THR:HA	2:HD:422:TYR:CE2	2.48	0.49
2:IB:372:THR:HA	2:IB:422:TYR:CE2	2.48	0.49
1:IE:141:VAL:HG12	1:IE:171:ILE:O	2.13	0.49
2:IF:372:THR:HA	2:IF:422:TYR:CE2	2.48	0.49
1:JA:237:SER:HA	1:JA:320:ARG:HH11	1.77	0.49
2:JB:372:THR:HA	2:JB:422:TYR:CE2	2.48	0.49
1:JC:90:GLU:CG	1:KC:280:LYS:HB3	2.41	0.49
2:JD:372:THR:HA	2:JD:422:TYR:CE2	2.48	0.49
2:LB:372:THR:HA	2:LB:422:TYR:CE2	2.48	0.49
1:LC:141:VAL:HG12	1:LC:171:ILE:O	2.13	0.49
2:LD:379:LYS:NZ	4:2A:166:ILE:HB	2.27	0.49
1:LE:60:LYS:HD3	1:ME:283:HIS:CA	2.42	0.49
2:MF:221:THR:CG2	6:4D:189:ARG:CZ	2.73	0.49
2:MF:372:THR:HA	2:MF:422:TYR:CE2	2.48	0.49
4:2B:164:ARG:C	4:2B:164:ARG:HD3	2.38	0.49
7:5B:947:GLU:OE1	7:5B:1037:LYS:NZ	2.43	0.49
7:5B:1481:GLN:O	7:5B:1485:LYS:HB2	2.12	0.49
7:5B:1548:VAL:CB	7:5B:1566:GLU:O	2.60	0.49
7:5B:1552:LYS:HZ3	7:5B:1563:SER:HB2	0.67	0.49
7:5C:1416:LYS:CD	7:5C:1416:LYS:C	2.85	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:222:PRO:HG3	2:BB:324:LYS:HD3	1.94	0.49
1:BA:237:SER:HA	1:BA:320:ARG:HH11	1.77	0.49
1:CA:141:VAL:HG12	1:CA:171:ILE:O	2.13	0.49
2:CB:180:VAL:HG12	1:CC:258:ASN:OD1	2.12	0.49
1:CC:141:VAL:HG12	1:CC:171:ILE:O	2.13	0.49
1:CE:141:VAL:HG12	1:CE:171:ILE:O	2.13	0.49
1:FA:141:VAL:HG12	1:FA:171:ILE:O	2.13	0.49
2:FB:332:ASN:CG	7:5C:909:ASN:ND2	2.67	0.49
1:FC:141:VAL:HG12	1:FC:171:ILE:O	2.13	0.49
2:FD:372:THR:HA	2:FD:422:TYR:CE2	2.48	0.49
1:FE:60:LYS:CE	1:GE:283:HIS:CG	2.92	0.49
1:FE:141:VAL:HG12	1:FE:171:ILE:O	2.13	0.49
1:GC:141:VAL:HG12	1:GC:171:ILE:O	2.13	0.49
1:HA:141:VAL:HG12	1:HA:171:ILE:O	2.13	0.49
1:IC:141:VAL:HG12	1:IC:171:ILE:O	2.13	0.49
2:ID:372:THR:HA	2:ID:422:TYR:CE2	2.48	0.49
1:JC:141:VAL:HG12	1:JC:171:ILE:O	2.13	0.49
1:JE:88:HIS:HE1	1:KE:280:LYS:HB3	1.74	0.49
1:JE:237:SER:HA	1:JE:320:ARG:HH11	1.77	0.49
2:JF:372:THR:HA	2:JF:422:TYR:CE2	2.48	0.49
1:LA:141:VAL:HG12	1:LA:171:ILE:O	2.13	0.49
1:LA:178:SER:OG	2:LB:347:ASN:CB	2.52	0.49
2:LB:223:GLY:HA3	6:4A:219:ASN:CA	2.40	0.49
1:LC:237:SER:HA	1:LC:320:ARG:HH11	1.77	0.49
2:LF:372:THR:HA	2:LF:422:TYR:CE2	2.48	0.49
1:MA:282:TYR:HD2	6:4C:104:ARG:NE	2.09	0.49
2:MB:372:THR:HA	2:MB:422:TYR:CE2	2.48	0.49
2:MD:179:VAL:HG22	1:ME:258:ASN:CG	2.37	0.49
1:ME:141:VAL:HG12	1:ME:171:ILE:O	2.13	0.49
4:2A:164:ARG:HD3	4:2A:164:ARG:C	2.38	0.49
4:2C:164:ARG:HD3	4:2C:164:ARG:C	2.38	0.49
6:4B:106:ALA:HB3	6:4B:107:MET:HE3	1.93	0.49
6:4B:175:LEU:N	6:4B:175:LEU:HD22	2.26	0.49
6:4D:175:LEU:N	6:4D:175:LEU:HD22	2.26	0.49
7:5A:1404:LYS:C	7:5A:1404:LYS:CE	2.85	0.49
7:5A:1416:LYS:CD	7:5A:1416:LYS:C	2.85	0.49
7:5A:1521:PHE:HE1	7:5A:1570:ALA:HB1	1.78	0.49
7:5B:1484:TYR:CG	7:5B:1568:LYS:HD3	2.47	0.49
7:5B:1521:PHE:HE1	7:5B:1570:ALA:HB1	1.78	0.49
7:5C:1125:LEU:HD23	8:6C:246:TYR:HE2	1.76	0.49
1:AE:141:VAL:HG12	1:AE:171:ILE:O	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BB:501:GDP:C8	1:BC:248:LEU:CD1	2.95	0.49
1:BC:141:VAL:HG12	1:BC:171:ILE:O	2.13	0.49
1:BC:394:LYS:NZ	2:BD:347:ASN:OD1	2.46	0.49
1:BE:141:VAL:HG12	1:BE:171:ILE:O	2.13	0.49
1:CA:237:SER:HA	1:CA:320:ARG:HH11	1.77	0.49
2:CB:212:PHE:CE2	1:CC:326:LYS:HB2	2.48	0.49
2:CB:372:THR:HA	2:CB:422:TYR:CE2	2.48	0.49
2:CB:397:TRP:CB	1:CC:256:GLN:HE22	2.16	0.49
1:CC:237:SER:HA	1:CC:320:ARG:HH11	1.77	0.49
1:CE:237:SER:HA	1:CE:320:ARG:HH11	1.77	0.49
2:CF:372:THR:HA	2:CF:422:TYR:CE2	2.48	0.49
1:DC:237:SER:HA	1:DC:320:ARG:HH11	1.77	0.49
1:DE:237:SER:HA	1:DE:320:ARG:HH11	1.77	0.49
1:EA:393:HIS:HE1	7:5C:814:LYS:HG3	1.71	0.49
1:FC:88:HIS:C	1:GC:280:LYS:HZ2	2.19	0.49
1:GA:56:THR:O	1:HA:285:GLN:CB	2.59	0.49
1:HC:179:THR:O	2:HD:350:LYS:HA	2.13	0.49
2:HF:372:THR:HA	2:HF:422:TYR:CE2	2.48	0.49
2:LD:372:THR:HA	2:LD:422:TYR:CE2	2.48	0.49
1:LE:141:VAL:HG12	1:LE:171:ILE:O	2.13	0.49
2:LF:379:LYS:O	4:2B:166:ILE:HD13	2.02	0.49
1:MC:141:VAL:HG12	1:MC:171:ILE:O	2.13	0.49
2:MD:110:ALA:C	3:1B:61:HIS:HB3	2.33	0.49
2:MD:372:THR:HA	2:MD:422:TYR:CE2	2.48	0.49
6:4A:175:LEU:N	6:4A:175:LEU:HD22	2.26	0.49
7:5A:826:LEU:CD2	7:5A:840:GLY:CA	2.75	0.49
7:5A:1481:GLN:O	7:5A:1485:LYS:HB2	2.12	0.49
7:5B:1416:LYS:CD	7:5B:1416:LYS:C	2.85	0.49
7:5C:1443:LYS:C	7:5C:1443:LYS:CD	2.85	0.49
7:5C:1481:GLN:O	7:5C:1485:LYS:HB2	2.13	0.49
1:AC:141:VAL:HG12	1:AC:171:ILE:O	2.13	0.49
1:AE:283:HIS:O	2:MB:54:ALA:HB2	2.07	0.49
2:CD:180:VAL:HG12	1:CE:258:ASN:OD1	2.13	0.49
2:CD:372:THR:HA	2:CD:422:TYR:CE2	2.48	0.49
1:DA:237:SER:HA	1:DA:320:ARG:HH11	1.77	0.49
1:EC:237:SER:HA	1:EC:320:ARG:HH11	1.77	0.49
1:EE:88:HIS:CE1	1:EE:90:GLU:HG2	2.48	0.49
1:FA:56:THR:OG1	1:GA:285:GLN:HA	2.13	0.49
2:FB:208:TYR:CD2	1:FC:326:LYS:HB3	2.47	0.49
2:FB:220:PRO:HD2	1:FC:326:LYS:HG2	1.93	0.49
1:GA:141:VAL:HG12	1:GA:171:ILE:O	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:141:VAL:HG12	1:IA:171:ILE:O	2.13	0.49
1:KC:127:ASP:OD2	1:LC:334:THR:CG2	2.61	0.49
1:LE:237:SER:HA	1:LE:320:ARG:HH11	1.77	0.49
2:LF:15:GLN:NE2	6:4D:217:ASN:OD1	2.46	0.49
2:LF:340:TYR:HB2	4:2B:147:PHE:HB2	1.94	0.49
1:MA:141:VAL:HG12	1:MA:171:ILE:O	2.13	0.49
4:2B:16:GLN:CA	4:2B:19:MET:H	2.25	0.49
6:4A:99:ARG:HH21	6:4A:103:GLU:HG3	1.78	0.49
6:4C:99:ARG:HH21	6:4C:103:GLU:HG3	1.78	0.49
6:4C:168:PHE:C	6:4C:168:PHE:CD1	2.90	0.49
7:5A:947:GLU:OE1	7:5A:1037:LYS:NZ	2.43	0.49
7:5B:773:ARG:C	7:5B:773:ARG:CD	2.85	0.49
7:5C:1521:PHE:HE1	7:5C:1570:ALA:HB1	1.78	0.49
9:7E:30:ARG:HH11	9:7F:3:GLN:HG2	1.77	0.49
1:AE:283:HIS:O	2:MB:54:ALA:HB3	2.03	0.49
2:AF:223:GLY:C	6:4A:131:VAL:CA	2.65	0.49
1:BA:278:ALA:CB	10:8A:21:UNK:CB	2.91	0.49
1:CA:241:SER:OG	1:CA:250:VAL:O	2.23	0.49
1:DA:141:VAL:HG12	1:DA:171:ILE:O	2.13	0.49
2:DB:212:PHE:HE2	1:DC:326:LYS:HB2	1.78	0.49
1:DC:141:VAL:HG12	1:DC:171:ILE:O	2.13	0.49
1:DE:71:GLU:CD	2:DF:247:ASN:ND2	2.71	0.49
2:DF:86:ARG:HA	2:EF:281:TYR:CD1	2.39	0.49
1:EA:237:SER:HA	1:EA:320:ARG:HH11	1.77	0.49
1:EE:141:VAL:HG12	1:EE:171:ILE:O	2.13	0.49
2:FF:106:TYR:CD1	7:5B:1295:LYS:N	2.80	0.49
2:GB:372:THR:HA	2:GB:422:TYR:CE2	2.48	0.49
1:GC:179:THR:O	2:GD:350:LYS:HA	2.13	0.49
1:GC:237:SER:HA	1:GC:320:ARG:HH11	1.77	0.49
2:GD:372:THR:HA	2:GD:422:TYR:CE2	2.48	0.49
1:GE:141:VAL:HG12	1:GE:171:ILE:O	2.13	0.49
1:HE:237:SER:HA	1:HE:320:ARG:HH11	1.77	0.49
1:HE:404:PHE:CE2	2:HF:345:ILE:HD11	2.48	0.49
1:IA:237:SER:HA	1:IA:320:ARG:HH11	1.77	0.49
1:IE:404:PHE:CE2	2:IF:345:ILE:HD11	2.48	0.49
1:JA:141:VAL:HG12	1:JA:171:ILE:O	2.13	0.49
1:KA:222:PRO:HG3	2:KB:324:LYS:HD3	1.94	0.49
2:KB:276:ARG:NH2	6:4A:265:TYR:HB2	2.27	0.49
1:KE:245:ASP:OD2	6:4B:257:LEU:HD12	2.12	0.49
1:LA:237:SER:HA	1:LA:320:ARG:HH11	1.77	0.49
1:LC:56:THR:C	1:MC:285:GLN:HB3	2.38	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ME:279:GLU:OE1	6:4B:107:MET:CG	2.60	0.49
4:2A:16:GLN:CA	4:2A:19:MET:H	2.25	0.49
4:2C:16:GLN:CA	4:2C:19:MET:H	2.25	0.49
6:4C:241:LYS:C	6:4C:241:LYS:HD3	2.32	0.49
6:4C:248:VAL:HA	6:4C:251:TYR:CE2	2.48	0.49
7:5A:773:ARG:C	7:5A:773:ARG:CD	2.85	0.49
7:5A:1484:TYR:CG	7:5A:1568:LYS:HD3	2.47	0.49
7:5B:1404:LYS:C	7:5B:1404:LYS:CE	2.85	0.49
1:AA:71:GLU:CD	2:AB:247:ASN:ND2	2.71	0.49
2:AF:217:LEU:HD22	6:4A:132:LYS:HD3	1.95	0.49
1:BA:141:VAL:HG12	1:BA:171:ILE:O	2.13	0.49
2:BD:222:TYR:HD2	1:BE:247:ALA:HB1	1.76	0.49
2:CF:86:ARG:CA	2:DF:281:TYR:OH	2.60	0.49
2:DD:84:LEU:C	2:ED:281:TYR:OH	2.56	0.49
1:DE:141:VAL:HG12	1:DE:171:ILE:O	2.13	0.49
1:EC:60:LYS:HD3	1:FC:283:HIS:HA	1.95	0.49
1:EC:88:HIS:CE1	1:EC:90:GLU:HG2	2.48	0.49
1:FA:237:SER:HA	1:FA:320:ARG:HH11	1.77	0.49
1:GA:237:SER:HA	1:GA:320:ARG:HH11	1.77	0.49
1:GA:370:LYS:HG2	10:8P:18:UNK:N	2.28	0.49
1:IC:237:SER:HA	1:IC:320:ARG:HH11	1.77	0.49
1:IE:279:GLU:HG2	10:8X:22:UNK:HA	1.94	0.49
2:LB:296:ALA:H	4:2C:149:ILE:HA	1.77	0.49
1:LC:88:HIS:CE1	1:LC:90:GLU:HG2	2.48	0.49
1:MA:178:SER:OG	2:MB:347:ASN:HB3	2.11	0.49
2:MF:221:THR:CB	6:4D:189:ARG:HH12	2.26	0.49
6:4A:248:VAL:HA	6:4A:251:TYR:CE2	2.48	0.49
6:4B:248:VAL:HA	6:4B:251:TYR:CE2	2.48	0.49
7:5B:1250:VAL:HG11	7:5B:1262:GLU:HG3	1.95	0.49
7:5C:1250:VAL:HG11	7:5C:1262:GLU:HG3	1.95	0.49
7:5C:1471:ILE:O	7:5C:1473:GLU:N	2.39	0.49
9:7E:15:VAL:HG12	9:7F:35:ILE:HA	1.95	0.49
1:AA:88:HIS:CE1	1:AA:90:GLU:HG2	2.48	0.49
1:AC:88:HIS:CE1	1:AC:90:GLU:HG2	2.48	0.49
1:BE:176:GLN:O	2:BF:347:ASN:ND2	2.39	0.49
1:CA:88:HIS:CE1	1:CA:90:GLU:HG2	2.48	0.49
1:CC:88:HIS:CE1	1:CC:90:GLU:HG2	2.48	0.49
1:DA:100:ALA:HB1	2:DB:252:LYS:HA	1.94	0.49
1:DC:412:GLY:HA2	7:5A:792:TYR:CZ	2.47	0.49
2:DD:86:ARG:HB2	2:ED:281:TYR:CE1	2.47	0.49
1:EA:88:HIS:CE1	1:EA:90:GLU:HG2	2.48	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:178:THR:HA	1:EC:352:LYS:HD3	1.94	0.49
1:EE:237:SER:HA	1:EE:320:ARG:HH11	1.77	0.49
1:FA:62:VAL:CG2	1:GA:283:HIS:O	2.61	0.49
1:FE:237:SER:HA	1:FE:320:ARG:HH11	1.77	0.49
1:GE:237:SER:HA	1:GE:320:ARG:HH11	1.77	0.49
1:GE:404:PHE:CE2	2:GF:345:ILE:HD11	2.48	0.49
2:GF:372:THR:HA	2:GF:422:TYR:CE2	2.48	0.49
1:HC:237:SER:HA	1:HC:320:ARG:HH11	1.77	0.49
2:ID:212:PHE:HZ	1:IE:326:LYS:CE	2.19	0.49
1:JA:89:PRO:CD	1:KA:280:LYS:HA	2.41	0.49
2:JB:88:ASP:HB2	2:KB:278:SER:CB	2.40	0.49
1:KA:124:LYS:CD	1:LA:293:ASN:HB2	2.40	0.49
2:KB:32:PRO:CG	6:4A:279:LEU:HD21	2.39	0.49
2:KF:130:LEU:HB3	2:KF:162:ARG:HD2	1.95	0.49
1:LA:88:HIS:CE1	1:LA:90:GLU:HG2	2.48	0.49
2:LB:212:PHE:CE2	1:LC:326:LYS:HB2	2.47	0.49
1:LC:222:PRO:CD	2:LD:324:LYS:CB	2.89	0.49
1:LE:71:GLU:OE1	2:LF:247:ASN:ND2	2.46	0.49
1:LE:88:HIS:CE1	1:LE:90:GLU:HG2	2.48	0.49
2:LF:228:LEU:HD21	6:4D:225:PRO:CB	2.42	0.49
2:LF:310:TYR:HE2	4:2B:147:PHE:CZ	2.31	0.49
2:LF:379:LYS:CE	4:2B:164:ARG:O	2.61	0.49
2:MB:221:THR:CB	6:4A:189:ARG:HH12	2.26	0.49
4:2A:30:CYS:SG	4:2A:52:ILE:HG13	2.53	0.49
4:2A:164:ARG:C	4:2A:164:ARG:CD	2.85	0.49
4:2B:30:CYS:SG	4:2B:52:ILE:HG13	2.52	0.49
4:2C:30:CYS:SG	4:2C:52:ILE:HG13	2.53	0.49
6:4A:168:PHE:C	6:4A:168:PHE:CD1	2.90	0.49
6:4B:99:ARG:HH21	6:4B:103:GLU:HG3	1.78	0.49
6:4C:175:LEU:N	6:4C:175:LEU:HD22	2.26	0.49
6:4D:248:VAL:HA	6:4D:251:TYR:CE2	2.48	0.49
7:5A:1250:VAL:HG11	7:5A:1262:GLU:HG3	1.95	0.49
7:5C:1332:GLN:CA	7:5C:1332:GLN:NE2	2.75	0.49
7:5C:1484:TYR:CG	7:5C:1568:LYS:HD3	2.47	0.49
9:7C:11:TYR:OH	9:7D:26:LEU:HB3	2.13	0.49
9:7C:11:TYR:CG	9:7D:23:LEU:CD2	2.96	0.49
1:AA:60:LYS:NZ	1:BA:283:HIS:CE1	2.81	0.49
1:AA:141:VAL:HG12	1:AA:171:ILE:O	2.13	0.49
1:AE:88:HIS:CE1	1:AE:90:GLU:HG2	2.48	0.49
2:AF:130:LEU:HB3	2:AF:162:ARG:HD2	1.95	0.49
2:DB:372:THR:HA	2:DB:422:TYR:CE2	2.48	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:177:ASP:HA	1:EC:353:VAL:HG12	1.95	0.49
1:EC:141:VAL:HG12	1:EC:171:ILE:O	2.13	0.49
1:FC:237:SER:HA	1:FC:320:ARG:HH11	1.77	0.49
1:FC:402:ARG:HH12	7:5A:1262:GLU:HB2	1.78	0.49
1:FE:135:PHE:HB2	1:FE:166:LYS:HG2	1.95	0.49
1:HE:410:GLY:HA2	5:3A:329:ARG:NH2	2.19	0.49
1:IA:71:GLU:CD	2:IB:247:ASN:ND2	2.71	0.49
1:IA:278:ALA:HB3	10:8V:21:UNK:CB	2.34	0.49
1:JE:404:PHE:CE2	2:JF:345:ILE:HD11	2.48	0.49
1:KA:88:HIS:CE1	1:KA:90:GLU:HG2	2.48	0.49
1:KE:404:PHE:CE2	2:KF:345:ILE:HD11	2.48	0.49
2:KF:272:PRO:C	6:4D:268:LEU:HD23	2.34	0.49
2:LB:331:LEU:HD22	4:2C:42:PHE:HZ	0.69	0.49
2:LD:306:ARG:HH21	4:2A:149:ILE:HG23	1.75	0.49
2:MF:130:LEU:HB3	2:MF:162:ARG:HD2	1.95	0.49
5:3C:229:PHE:CZ	5:3C:331:GLN:CD	2.65	0.49
6:4D:99:ARG:HH21	6:4D:103:GLU:HG3	1.78	0.49
6:4D:251:TYR:CD2	6:4D:280:VAL:HG11	2.48	0.49
6:4D:289:LYS:CA	6:4D:289:LYS:CE	2.85	0.49
7:5A:1332:GLN:CA	7:5A:1332:GLN:NE2	2.75	0.49
7:5B:841:VAL:N	8:6B:109:ILE:CD1	2.63	0.49
7:5B:1113:ILE:HG12	7:5B:1157:THR:CG2	2.41	0.49
7:5B:1552:LYS:HZ1	7:5B:1563:SER:H	1.59	0.49
7:5C:1332:GLN:N	7:5C:1332:GLN:NE2	2.60	0.49
2:AD:130:LEU:HB3	2:AD:162:ARG:HD2	1.95	0.48
1:BA:384:ILE:O	1:BA:387:VAL:HG22	2.13	0.48
1:BC:384:ILE:O	1:BC:387:VAL:HG22	2.13	0.48
1:BE:88:HIS:CE1	1:BE:90:GLU:HG2	2.48	0.48
1:BE:384:ILE:O	1:BE:387:VAL:HG22	2.13	0.48
2:BF:130:LEU:HB3	2:BF:162:ARG:HD2	1.95	0.48
2:CB:397:TRP:CD2	1:CC:256:GLN:O	2.41	0.48
1:CE:88:HIS:CE1	1:CE:90:GLU:HG2	2.48	0.48
2:DD:372:THR:HA	2:DD:422:TYR:CE2	2.48	0.48
1:EA:141:VAL:HG12	1:EA:171:ILE:O	2.13	0.48
2:EB:55:THR:CG2	2:FB:284:LEU:N	2.71	0.48
1:EC:396:ASP:O	7:5A:817:LEU:HD11	2.13	0.48
2:ED:177:ASP:OD2	1:EE:353:VAL:HG11	2.01	0.48
1:FA:60:LYS:CE	1:GA:283:HIS:CA	2.88	0.48
1:FA:88:HIS:CE1	1:FA:90:GLU:HG2	2.48	0.48
2:FB:212:PHE:CZ	1:FC:326:LYS:CE	2.87	0.48
1:FE:176:GLN:O	2:FF:347:ASN:ND2	2.37	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FE:222:PRO:HG3	2:FF:324:LYS:CD	2.41	0.48
1:GA:71:GLU:CD	2:GB:247:ASN:ND2	2.71	0.48
1:HE:384:ILE:O	1:HE:387:VAL:HG22	2.13	0.48
2:IB:424:GLN:NE2	7:5C:1413:GLN:HE22	1.20	0.48
1:IC:179:THR:O	2:ID:350:LYS:HA	2.13	0.48
1:IE:384:ILE:O	1:IE:387:VAL:HG22	2.13	0.48
1:IE:393:HIS:CB	5:3A:308:PHE:CD2	2.96	0.48
1:KA:71:GLU:CD	2:KB:247:ASN:ND2	2.71	0.48
1:KA:141:VAL:HG12	1:KA:171:ILE:O	2.13	0.48
1:KC:88:HIS:CE1	1:KC:90:GLU:HG2	2.48	0.48
1:KC:141:VAL:HG12	1:KC:171:ILE:O	2.13	0.48
2:KD:54:ALA:CB	2:LD:285:THR:HG23	2.09	0.48
1:KE:88:HIS:CE1	1:KE:90:GLU:HG2	2.48	0.48
1:KE:141:VAL:HG12	1:KE:171:ILE:O	2.13	0.48
1:KE:176:GLN:O	2:KF:347:ASN:ND2	2.40	0.48
2:LB:55:THR:HG1	2:MB:283:ALA:HA	1.75	0.48
2:LB:130:LEU:HB3	2:LB:162:ARG:HD2	1.95	0.48
2:LD:130:LEU:HB3	2:LD:162:ARG:HD2	1.95	0.48
2:MB:130:LEU:HB3	2:MB:162:ARG:HD2	1.95	0.48
2:MD:130:LEU:HB3	2:MD:162:ARG:HD2	1.95	0.48
1:ME:88:HIS:CE1	1:ME:90:GLU:HG2	2.48	0.48
5:3A:229:PHE:CZ	5:3A:331:GLN:CD	2.65	0.48
6:4A:251:TYR:CD2	6:4A:280:VAL:HG11	2.48	0.48
6:4B:168:PHE:C	6:4B:168:PHE:CD1	2.90	0.48
6:4B:251:TYR:CD2	6:4B:280:VAL:HG11	2.48	0.48
7:5B:826:LEU:CD2	7:5B:840:GLY:CA	2.75	0.48
7:5C:947:GLU:OE1	7:5C:1037:LYS:NZ	2.43	0.48
7:5C:1131:PHE:CE1	8:6C:253:PHE:CE1	3.00	0.48
8:6A:169:VAL:HG13	8:6A:194:CYS:SG	2.53	0.48
8:6B:169:VAL:HG13	8:6B:194:CYS:SG	2.53	0.48
9:7A:11:TYR:CG	9:7B:23:LEU:CD2	2.96	0.48
1:AA:179:THR:O	2:AB:350:LYS:HA	2.12	0.48
1:AE:224:TYR:CE2	2:AF:246:LEU:HD11	2.46	0.48
2:AF:321:MET:C	6:4A:156:PHE:CE2	2.90	0.48
1:BA:88:HIS:CE1	1:BA:90:GLU:HG2	2.48	0.48
1:BC:71:GLU:CD	2:BD:247:ASN:ND2	2.70	0.48
1:BC:88:HIS:CE1	1:BC:90:GLU:HG2	2.48	0.48
2:CB:212:PHE:CZ	1:CC:326:LYS:CE	2.92	0.48
2:CD:394:PHE:CD1	1:CE:261:PRO:HA	2.49	0.48
1:DC:231:ILE:O	1:DC:235:ILE:HG12	2.14	0.48
2:DF:372:THR:HA	2:DF:422:TYR:CE2	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:394:LYS:NZ	2:EB:347:ASN:OD1	2.46	0.48
1:EA:430:LYS:HZ2	7:5C:834:ASN:HB2	1.76	0.48
2:ED:85:PHE:C	2:FD:281:TYR:OH	2.54	0.48
2:ED:86:ARG:HA	2:FD:281:TYR:CZ	2.48	0.48
1:FA:135:PHE:HB2	1:FA:166:LYS:HG2	1.95	0.48
13:FB:502:GDP:C8	1:FC:248:LEU:CD1	2.96	0.48
1:FC:135:PHE:HB2	1:FC:166:LYS:HG2	1.95	0.48
1:FE:207:GLU:OE1	7:5B:915:PHE:CG	2.66	0.48
1:GA:231:ILE:O	1:GA:235:ILE:HG12	2.13	0.48
1:GC:89:PRO:CG	1:HC:280:LYS:NZ	2.76	0.48
1:GE:60:LYS:CD	1:HE:283:HIS:HA	2.41	0.48
1:GE:231:ILE:O	1:GE:235:ILE:HG12	2.14	0.48
1:HA:237:SER:HA	1:HA:320:ARG:HH11	1.77	0.48
1:IA:179:THR:O	2:IB:350:LYS:HA	2.12	0.48
1:IA:384:ILE:O	1:IA:387:VAL:HG22	2.13	0.48
1:IC:317:MET:HA	1:IC:377:MET:HA	1.96	0.48
1:IC:384:ILE:O	1:IC:387:VAL:HG22	2.13	0.48
1:IE:237:SER:HA	1:IE:320:ARG:HH11	1.77	0.48
1:JA:179:THR:O	2:JB:350:LYS:HA	2.12	0.48
1:JA:231:ILE:O	1:JA:235:ILE:HG12	2.14	0.48
1:JE:231:ILE:O	1:JE:235:ILE:HG12	2.14	0.48
1:KA:231:ILE:O	1:KA:235:ILE:HG12	2.14	0.48
2:KB:130:LEU:HB3	2:KB:162:ARG:HD2	1.95	0.48
1:KC:317:MET:HA	1:KC:377:MET:HA	1.96	0.48
2:KD:130:LEU:HB3	2:KD:162:ARG:HD2	1.95	0.48
2:LD:55:THR:HG22	2:MD:283:ALA:HB1	1.90	0.48
2:LF:130:LEU:HB3	2:LF:162:ARG:HD2	1.95	0.48
1:MC:88:HIS:CE1	1:MC:90:GLU:HG2	2.48	0.48
1:MC:384:ILE:O	1:MC:387:VAL:HG22	2.13	0.48
2:MD:177:ASP:HA	1:ME:353:VAL:HG12	1.95	0.48
1:ME:384:ILE:O	1:ME:387:VAL:HG22	2.13	0.48
3:1A:70:TRP:CZ2	3:1A:93:ILE:HG21	2.48	0.48
3:1B:70:TRP:CZ2	3:1B:93:ILE:HG21	2.48	0.48
4:2B:164:ARG:C	4:2B:164:ARG:CD	2.85	0.48
5:3B:229:PHE:CZ	5:3B:331:GLN:CD	2.65	0.48
6:4B:110:LYS:HD2	6:4B:110:LYS:H	1.77	0.48
6:4B:289:LYS:CA	6:4B:289:LYS:CE	2.85	0.48
6:4C:251:TYR:CD2	6:4C:280:VAL:HG11	2.48	0.48
6:4C:289:LYS:CA	6:4C:289:LYS:CE	2.85	0.48
6:4D:110:LYS:HD2	6:4D:110:LYS:H	1.77	0.48
6:4D:168:PHE:HD1	6:4D:168:PHE:C	2.20	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4D:168:PHE:C	6:4D:168:PHE:CD1	2.90	0.48
7:5A:839:GLU:CD	8:6A:107:PRO:C	2.79	0.48
7:5A:1332:GLN:N	7:5A:1332:GLN:NE2	2.60	0.48
7:5B:872:GLU:OE2	8:6B:90:ARG:NH1	2.41	0.48
7:5B:1332:GLN:CA	7:5B:1332:GLN:NE2	2.75	0.48
7:5C:839:GLU:OE2	8:6C:109:ILE:N	2.45	0.48
7:5C:1406:PHE:O	7:5C:1410:ASN:N	2.31	0.48
2:AB:130:LEU:HB3	2:AB:162:ARG:HD2	1.95	0.48
2:AF:223:GLY:HA3	6:4A:131:VAL:CB	2.27	0.48
2:AF:224:ASP:OD1	6:4A:131:VAL:CA	2.60	0.48
2:BB:130:LEU:HB3	2:BB:162:ARG:HD2	1.95	0.48
2:BD:130:LEU:HB3	2:BD:162:ARG:HD2	1.95	0.48
1:BE:60:LYS:HD3	1:CE:283:HIS:CD2	2.47	0.48
1:CC:241:SER:OG	1:CC:250:VAL:O	2.23	0.48
1:CC:384:ILE:O	1:CC:387:VAL:HG22	2.13	0.48
1:DA:231:ILE:O	1:DA:235:ILE:HG12	2.14	0.48
1:DE:135:PHE:HB2	1:DE:166:LYS:HG2	1.95	0.48
1:DE:231:ILE:O	1:DE:235:ILE:HG12	2.14	0.48
1:EC:135:PHE:HB2	1:EC:166:LYS:HG2	1.95	0.48
1:EC:384:ILE:O	1:EC:387:VAL:HG22	2.13	0.48
2:ED:98:GLY:CA	1:EE:254:GLU:CG	2.51	0.48
1:EE:135:PHE:HB2	1:EE:166:LYS:HG2	1.95	0.48
1:EE:384:ILE:O	1:EE:387:VAL:HG22	2.13	0.48
1:FC:88:HIS:CE1	1:FC:90:GLU:HG2	2.48	0.48
1:FC:207:GLU:OE1	7:5A:915:PHE:CG	2.66	0.48
1:GA:222:PRO:HG3	2:GB:324:LYS:HD3	1.94	0.48
1:GC:231:ILE:O	1:GC:235:ILE:HG12	2.14	0.48
1:GE:88:HIS:CE1	1:GE:90:GLU:HG2	2.48	0.48
1:HA:135:PHE:HB2	1:HA:166:LYS:HG2	1.95	0.48
1:HA:222:PRO:HG3	2:HB:324:LYS:HD3	1.94	0.48
1:HA:384:ILE:O	1:HA:387:VAL:HG22	2.13	0.48
1:HC:384:ILE:O	1:HC:387:VAL:HG22	2.13	0.48
1:IA:88:HIS:CE1	1:IA:90:GLU:HG2	2.48	0.48
1:IA:317:MET:HA	1:IA:377:MET:HA	1.96	0.48
1:JC:231:ILE:O	1:JC:235:ILE:HG12	2.14	0.48
1:KA:85:GLN:HG2	1:LA:283:HIS:HD2	1.78	0.48
1:KA:317:MET:HA	1:KA:377:MET:HA	1.96	0.48
1:KC:88:HIS:ND1	1:LC:284:GLU:OE1	2.47	0.48
1:KE:317:MET:HA	1:KE:377:MET:HA	1.96	0.48
2:LB:55:THR:HG22	2:MB:283:ALA:HB1	1.96	0.48
1:LC:71:GLU:OE1	2:LD:247:ASN:ND2	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LC:317:MET:HA	1:LC:377:MET:HA	1.96	0.48
1:LE:101:ASN:HD22	2:LF:252:LYS:HG3	1.77	0.48
1:MA:88:HIS:CE1	1:MA:90:GLU:HG2	2.48	0.48
1:MA:384:ILE:O	1:MA:387:VAL:HG22	2.13	0.48
1:ME:237:SER:HA	1:ME:320:ARG:HH11	1.77	0.48
1:ME:317:MET:HA	1:ME:377:MET:HA	1.96	0.48
3:1C:70:TRP:CZ2	3:1C:93:ILE:HG21	2.48	0.48
4:2A:176:ARG:O	4:2A:179:VAL:N	2.47	0.48
4:2C:176:ARG:O	4:2C:179:VAL:N	2.47	0.48
6:4A:110:LYS:HD2	6:4A:110:LYS:H	1.77	0.48
6:4C:110:LYS:HD2	6:4C:110:LYS:H	1.77	0.48
7:5A:874:GLN:CB	8:6A:59:LYS:HZ2	2.12	0.48
7:5A:1366:TRP:CE3	7:5A:1366:TRP:CA	2.96	0.48
7:5B:1404:LYS:HZ1	7:5B:1408:GLU:HB2	1.76	0.48
7:5B:1524:PHE:CE1	7:5B:1571:MET:SD	3.05	0.48
7:5C:1366:TRP:CA	7:5C:1366:TRP:CE3	2.96	0.48
1:AE:284:GLU:HA	2:MB:54:ALA:CB	2.43	0.48
1:BE:135:PHE:HB2	1:BE:166:LYS:HG2	1.95	0.48
1:CA:384:ILE:O	1:CA:387:VAL:HG22	2.13	0.48
2:CD:178:THR:HA	1:CE:352:LYS:HD3	1.95	0.48
1:DA:88:HIS:CE1	1:DA:90:GLU:HG2	2.48	0.48
1:DA:135:PHE:HB2	1:DA:166:LYS:HG2	1.95	0.48
1:DA:398:MET:SD	2:DB:345:ILE:CG1	2.94	0.48
1:DC:88:HIS:CE1	1:DC:90:GLU:HG2	2.48	0.48
1:DC:135:PHE:HB2	1:DC:166:LYS:HG2	1.95	0.48
1:DE:88:HIS:CE1	1:DE:90:GLU:HG2	2.48	0.48
1:EA:135:PHE:HB2	1:EA:166:LYS:HG2	1.95	0.48
2:EB:289:LEU:HD13	2:EB:365:VAL:HG23	1.96	0.48
2:EF:289:LEU:HD13	2:EF:365:VAL:HG23	1.96	0.48
1:GC:88:HIS:CE1	1:GC:90:GLU:HG2	2.48	0.48
1:GE:135:PHE:HB2	1:GE:166:LYS:HG2	1.95	0.48
1:GE:384:ILE:O	1:GE:387:VAL:HG22	2.13	0.48
1:HC:135:PHE:HB2	1:HC:166:LYS:HG2	1.95	0.48
1:IA:135:PHE:HB2	1:IA:166:LYS:HG2	1.95	0.48
1:IA:222:PRO:HG3	2:IB:324:LYS:HD3	1.94	0.48
1:IC:135:PHE:HB2	1:IC:166:LYS:HG2	1.95	0.48
1:IE:135:PHE:HB2	1:IE:166:LYS:HG2	1.95	0.48
1:JA:384:ILE:O	1:JA:387:VAL:HG22	2.13	0.48
2:JB:130:LEU:HB3	2:JB:162:ARG:HD2	1.95	0.48
1:JC:317:MET:HA	1:JC:377:MET:HA	1.96	0.48
1:JC:384:ILE:O	1:JC:387:VAL:HG22	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:317:MET:HA	1:JE:377:MET:HA	1.96	0.48
2:KB:125:GLU:O	4:2C:38:VAL:HA	2.13	0.48
2:KB:212:PHE:CZ	1:KC:326:LYS:CE	2.93	0.48
1:KC:179:THR:O	2:KD:350:LYS:HA	2.13	0.48
2:KF:124:ALA:O	4:2B:37:GLY:C	2.56	0.48
1:LA:101:ASN:ND2	2:LB:252:LYS:HG3	2.29	0.48
2:LD:289:LEU:HD13	2:LD:365:VAL:HG23	1.96	0.48
4:2B:176:ARG:O	4:2B:179:VAL:N	2.47	0.48
4:2C:144:ASN:ND2	4:2C:144:ASN:N	2.60	0.48
6:4A:289:LYS:CA	6:4A:289:LYS:CE	2.85	0.48
6:4C:278:TYR:HD1	6:4C:278:TYR:H	1.61	0.48
7:5A:1105:TYR:HB2	7:5A:1165:PRO:HA	1.96	0.48
7:5A:1244:LEU:HD12	7:5A:1244:LEU:HA	1.61	0.48
7:5A:1524:PHE:CE1	7:5A:1571:MET:SD	3.05	0.48
7:5B:1366:TRP:CE3	7:5B:1366:TRP:CA	2.96	0.48
7:5C:1524:PHE:CE1	7:5C:1571:MET:SD	3.05	0.48
1:AA:384:ILE:O	1:AA:387:VAL:HG22	2.13	0.48
1:AC:179:THR:O	2:AD:350:LYS:HA	2.13	0.48
1:AE:282:TYR:O	2:MB:55:THR:OG1	2.28	0.48
1:BA:394:LYS:NZ	2:BB:347:ASN:OD1	2.44	0.48
2:BB:212:PHE:HE2	1:BC:326:LYS:HB2	1.79	0.48
2:BD:289:LEU:HD13	2:BD:365:VAL:HG23	1.96	0.48
1:BE:231:ILE:O	1:BE:235:ILE:HG12	2.14	0.48
2:BF:289:LEU:HD13	2:BF:365:VAL:HG23	1.96	0.48
2:CB:390:ARG:HD2	1:CC:439:THR:HG21	1.95	0.48
2:CD:130:LEU:HB3	2:CD:162:ARG:HD2	1.95	0.48
2:CD:222:TYR:HD2	1:CE:247:ALA:HB1	1.78	0.48
1:CE:183:GLU:N	1:CE:184:PRO:HD2	2.29	0.48
1:CE:384:ILE:O	1:CE:387:VAL:HG22	2.13	0.48
2:CF:130:LEU:HB3	2:CF:162:ARG:HD2	1.95	0.48
2:DB:130:LEU:HB3	2:DB:162:ARG:HD2	1.95	0.48
1:DC:221:ARG:NH1	2:DD:324:LYS:N	2.61	0.48
2:DD:212:PHE:CE2	1:DE:326:LYS:HB2	2.48	0.48
1:EA:231:ILE:O	1:EA:235:ILE:HG12	2.14	0.48
1:EA:384:ILE:O	1:EA:387:VAL:HG22	2.13	0.48
1:EC:231:ILE:O	1:EC:235:ILE:HG12	2.14	0.48
2:ED:54:ALA:HB1	2:FD:281:TYR:O	2.13	0.48
2:ED:289:LEU:HD13	2:ED:365:VAL:HG23	1.96	0.48
1:EE:231:ILE:O	1:EE:235:ILE:HG12	2.14	0.48
1:FA:419:SER:CB	7:5C:1256:ARG:HG2	2.40	0.48
1:FC:231:ILE:O	1:FC:235:ILE:HG12	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FD:130:LEU:HB3	2:FD:162:ARG:HD2	1.95	0.48
1:FE:88:HIS:CE1	1:FE:90:GLU:HG2	2.48	0.48
1:FE:222:PRO:HG2	2:FF:324:LYS:CD	2.41	0.48
1:FE:231:ILE:O	1:FE:235:ILE:HG12	2.14	0.48
1:GA:135:PHE:HB2	1:GA:166:LYS:HG2	1.95	0.48
2:IB:130:LEU:HB3	2:IB:162:ARG:HD2	1.95	0.48
2:ID:130:LEU:HB3	2:ID:162:ARG:HD2	1.95	0.48
1:IE:317:MET:HA	1:IE:377:MET:HA	1.96	0.48
2:IF:130:LEU:HB3	2:IF:162:ARG:HD2	1.95	0.48
1:JA:135:PHE:HB2	1:JA:166:LYS:HG2	1.95	0.48
1:JA:317:MET:HA	1:JA:377:MET:HA	1.96	0.48
1:JE:384:ILE:O	1:JE:387:VAL:HG22	2.13	0.48
2:KB:215:LEU:CD1	6:4A:267:ILE:CB	2.87	0.48
2:KB:289:LEU:HD13	2:KB:365:VAL:HG23	1.96	0.48
1:KC:183:GLU:N	1:KC:184:PRO:HD2	2.29	0.48
1:KC:231:ILE:O	1:KC:235:ILE:HG12	2.14	0.48
2:KD:77:ARG:HD3	2:LD:281:TYR:CE2	2.49	0.48
1:KE:231:ILE:O	1:KE:235:ILE:HG12	2.14	0.48
1:KE:384:ILE:O	1:KE:387:VAL:HG22	2.13	0.48
2:KF:289:LEU:HD13	2:KF:365:VAL:HG23	1.96	0.48
1:LA:56:THR:OG1	1:MA:284:GLU:CA	2.61	0.48
1:LA:135:PHE:HB2	1:LA:166:LYS:HG2	1.95	0.48
1:LA:317:MET:HA	1:LA:377:MET:HA	1.96	0.48
1:LC:135:PHE:HB2	1:LC:166:LYS:HG2	1.95	0.48
1:LE:135:PHE:HB2	1:LE:166:LYS:HG2	1.95	0.48
1:LE:221:ARG:HH11	2:LF:325:GLU:H	1.61	0.48
1:LE:231:ILE:O	1:LE:235:ILE:HG12	2.14	0.48
1:LE:317:MET:HA	1:LE:377:MET:HA	1.96	0.48
2:LF:310:TYR:CE2	4:2B:147:PHE:CE2	3.02	0.48
1:MA:237:SER:HA	1:MA:320:ARG:HH11	1.77	0.48
1:MA:317:MET:HA	1:MA:377:MET:HA	1.96	0.48
1:MC:237:SER:HA	1:MC:320:ARG:HH11	1.77	0.48
1:MC:317:MET:HA	1:MC:377:MET:HA	1.96	0.48
4:2B:144:ASN:O	4:2B:145:GLN:CG	2.56	0.48
4:2B:164:ARG:NH1	4:2B:164:ARG:CB	2.75	0.48
6:4B:168:PHE:HD1	6:4B:168:PHE:C	2.20	0.48
7:5A:1484:TYR:CB	7:5A:1568:LYS:HD3	2.43	0.48
7:5B:1105:TYR:HB2	7:5B:1165:PRO:HA	1.96	0.48
7:5B:1332:GLN:N	7:5B:1332:GLN:NE2	2.60	0.48
7:5B:1484:TYR:CB	7:5B:1568:LYS:HD3	2.43	0.48
7:5C:1105:TYR:HB2	7:5C:1165:PRO:HA	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1247:LYS:HE2	7:5C:1248:LEU:CG	2.43	0.48
8:6C:169:VAL:HG13	8:6C:194:CYS:SG	2.53	0.48
9:7E:15:VAL:HG12	9:7F:35:ILE:CA	2.43	0.48
2:AF:289:LEU:HD13	2:AF:365:VAL:HG23	1.96	0.48
2:BD:177:ASP:HA	1:BE:353:VAL:HG12	1.96	0.48
1:CC:60:LYS:HD3	1:DC:283:HIS:HD2	1.79	0.48
2:CD:177:ASP:OD2	1:CE:248:LEU:HD23	2.08	0.48
1:DA:404:PHE:CE2	2:DB:345:ILE:CD1	2.95	0.48
2:EB:130:LEU:HB3	2:EB:162:ARG:HD2	1.95	0.48
2:ED:130:LEU:HB3	2:ED:162:ARG:HD2	1.95	0.48
1:FA:89:PRO:HA	1:GA:280:LYS:HZ2	1.73	0.48
2:FB:130:LEU:HB3	2:FB:162:ARG:HD2	1.95	0.48
2:FD:289:LEU:HD13	2:FD:365:VAL:HG23	1.96	0.48
1:FE:422:ARG:NE	7:5B:1170:THR:C	2.72	0.48
2:FF:289:LEU:HD13	2:FF:365:VAL:HG23	1.96	0.48
1:GC:135:PHE:HB2	1:GC:166:LYS:HG2	1.95	0.48
2:GF:130:LEU:HB3	2:GF:162:ARG:HD2	1.95	0.48
2:GF:289:LEU:HD13	2:GF:365:VAL:HG23	1.96	0.48
1:HA:60:LYS:NZ	1:IA:283:HIS:CE1	2.82	0.48
1:HA:88:HIS:CE1	1:HA:90:GLU:HG2	2.48	0.48
1:HA:224:TYR:CE2	2:HB:246:LEU:HD11	2.44	0.48
1:HC:88:HIS:CE1	1:HC:90:GLU:HG2	2.48	0.48
1:HC:196:GLU:HG3	5:3C:211:GLN:HE22	1.79	0.48
1:HE:135:PHE:HB2	1:HE:166:LYS:HG2	1.95	0.48
2:IB:289:LEU:HD13	2:IB:365:VAL:HG23	1.96	0.48
1:IC:88:HIS:CE1	1:IC:90:GLU:HG2	2.48	0.48
1:IE:231:ILE:O	1:IE:235:ILE:HG12	2.14	0.48
1:JA:88:HIS:CE1	1:JA:90:GLU:HG2	2.48	0.48
1:JC:135:PHE:HB2	1:JC:166:LYS:HG2	1.95	0.48
2:JD:130:LEU:HB3	2:JD:162:ARG:HD2	1.95	0.48
2:KD:289:LEU:HD13	2:KD:365:VAL:HG23	1.96	0.48
1:LA:231:ILE:O	1:LA:235:ILE:HG12	2.14	0.48
2:LB:289:LEU:HD13	2:LB:365:VAL:HG23	1.96	0.48
2:LD:222:TYR:HD2	1:LE:247:ALA:HB1	1.77	0.48
2:LF:289:LEU:HD13	2:LF:365:VAL:HG23	1.96	0.48
2:MB:106:TYR:HE1	3:1A:32:ARG:NH1	2.01	0.48
2:MB:289:LEU:HD13	2:MB:365:VAL:HG23	1.96	0.48
2:MD:289:LEU:HD13	2:MD:365:VAL:HG23	1.96	0.48
1:ME:279:GLU:OE1	6:4B:107:MET:HA	2.10	0.48
4:2A:65:ASN:O	4:2A:69:LYS:HE3	2.14	0.48
4:2A:144:ASN:ND2	4:2A:144:ASN:N	2.60	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2A:164:ARG:NH1	4:2A:164:ARG:CB	2.75	0.48
4:2B:65:ASN:O	4:2B:69:LYS:HE3	2.14	0.48
6:4C:256:ASN:HD21	6:4C:260:ARG:HE	1.57	0.48
7:5A:1247:LYS:HE2	7:5A:1248:LEU:CG	2.43	0.48
7:5A:1377:LYS:HE3	7:5A:1377:LYS:HB2	1.44	0.48
7:5A:1412:LYS:C	7:5A:1412:LYS:CD	2.85	0.48
7:5B:1125:LEU:CD1	8:6B:245:GLN:OE1	2.53	0.48
7:5B:1247:LYS:HE2	7:5B:1248:LEU:CG	2.43	0.48
7:5B:1412:LYS:C	7:5B:1412:LYS:CD	2.85	0.48
7:5C:1484:TYR:CB	7:5C:1568:LYS:HD3	2.43	0.48
2:AB:289:LEU:HD13	2:AB:365:VAL:HG23	1.96	0.48
1:AC:60:LYS:HZ2	1:BC:283:HIS:CE1	2.32	0.48
1:AC:384:ILE:O	1:AC:387:VAL:HG22	2.13	0.48
2:AF:281:TYR:CZ	1:MC:60:LYS:NZ	2.80	0.48
1:BA:231:ILE:O	1:BA:235:ILE:HG12	2.14	0.48
2:BB:289:LEU:HD13	2:BB:365:VAL:HG23	1.96	0.48
1:BC:135:PHE:HB2	1:BC:166:LYS:HG2	1.95	0.48
1:BC:231:ILE:O	1:BC:235:ILE:HG12	2.14	0.48
1:CA:135:PHE:HB2	1:CA:166:LYS:HG2	1.95	0.48
2:CB:130:LEU:HB3	2:CB:162:ARG:HD2	1.95	0.48
1:CC:135:PHE:HB2	1:CC:166:LYS:HG2	1.95	0.48
1:CC:183:GLU:N	1:CC:184:PRO:HD2	2.29	0.48
2:CD:289:LEU:HD13	2:CD:365:VAL:HG23	1.96	0.48
2:CF:289:LEU:HD13	2:CF:365:VAL:HG23	1.96	0.48
2:DB:289:LEU:HD13	2:DB:365:VAL:HG23	1.96	0.48
1:EA:241:SER:OG	1:EA:250:VAL:O	2.23	0.48
2:EF:130:LEU:HB3	2:EF:162:ARG:HD2	1.95	0.48
2:FB:177:ASP:C	1:FC:352:LYS:HA	2.38	0.48
2:FB:289:LEU:HD13	2:FB:365:VAL:HG23	1.96	0.48
1:FC:56:THR:OG1	1:GC:285:GLN:N	2.46	0.48
2:FD:177:ASP:O	1:FE:352:LYS:CD	2.43	0.48
2:FD:332:ASN:CB	7:5A:909:ASN:HD21	2.27	0.48
1:GA:88:HIS:CE1	1:GA:90:GLU:HG2	2.48	0.48
1:GA:384:ILE:O	1:GA:387:VAL:HG22	2.13	0.48
1:GC:384:ILE:O	1:GC:387:VAL:HG22	2.13	0.48
1:HA:398:MET:SD	2:HB:345:ILE:CG1	2.90	0.48
2:HB:130:LEU:HB3	2:HB:162:ARG:HD2	1.95	0.48
1:HE:88:HIS:CE1	1:HE:90:GLU:HG2	2.48	0.48
2:HF:130:LEU:HB3	2:HF:162:ARG:HD2	1.95	0.48
1:IC:231:ILE:O	1:IC:235:ILE:HG12	2.14	0.48
1:IE:88:HIS:CE1	1:IE:90:GLU:HG2	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:90:GLU:HG2	1:KE:280:LYS:CD	2.41	0.48
1:JE:282:TYR:OH	10:9A:17:UNK:C	2.53	0.48
2:JF:130:LEU:HB3	2:JF:162:ARG:HD2	1.95	0.48
1:KA:183:GLU:N	1:KA:184:PRO:HD2	2.29	0.48
1:KA:384:ILE:O	1:KA:387:VAL:HG22	2.13	0.48
2:KD:177:ASP:C	1:KE:352:LYS:HA	2.39	0.48
1:KE:135:PHE:HB2	1:KE:166:LYS:HG2	1.95	0.48
1:KE:183:GLU:N	1:KE:184:PRO:HD2	2.29	0.48
2:LB:305:PRO:HG2	4:2C:149:ILE:CD1	2.44	0.48
1:LC:231:ILE:O	1:LC:235:ILE:HG12	2.14	0.48
1:LE:56:THR:OG1	1:ME:284:GLU:HA	2.14	0.48
2:LF:410:GLU:OE1	4:2B:182:PHE:CE1	2.67	0.48
1:MC:11:GLN:HE22	2:MD:246:LEU:HA	1.79	0.48
1:ME:135:PHE:HB2	1:ME:166:LYS:HG2	1.95	0.48
2:MF:289:LEU:HD13	2:MF:365:VAL:HG23	1.96	0.48
4:2C:65:ASN:O	4:2C:69:LYS:HE3	2.14	0.48
4:2C:164:ARG:NH1	4:2C:164:ARG:CB	2.75	0.48
6:4A:256:ASN:HD21	6:4A:260:ARG:HE	1.57	0.48
6:4C:230:TYR:O	6:4C:230:TYR:HD2	1.95	0.48
7:5A:844:PHE:CG	7:5A:849:ARG:HD2	2.48	0.48
7:5A:1404:LYS:HE3	7:5A:1404:LYS:HB3	1.49	0.48
7:5C:844:PHE:CG	7:5C:849:ARG:HD2	2.48	0.48
10:8T:33:UNK:C	10:8T:35:UNK:N	2.76	0.48
10:8X:33:UNK:C	10:8X:35:UNK:N	2.76	0.48
1:AA:231:ILE:O	1:AA:235:ILE:HG12	2.14	0.48
2:AD:289:LEU:HD13	2:AD:365:VAL:HG23	1.96	0.48
1:AE:222:PRO:HG3	2:AF:324:LYS:HD3	1.95	0.48
1:AE:384:ILE:O	1:AE:387:VAL:HG22	2.13	0.48
1:BA:183:GLU:N	1:BA:184:PRO:HD2	2.29	0.48
1:CA:183:GLU:N	1:CA:184:PRO:HD2	2.29	0.48
1:CE:135:PHE:HB2	1:CE:166:LYS:HG2	1.95	0.48
2:DB:220:PRO:HD2	1:DC:326:LYS:CD	2.44	0.48
1:DC:128:ASN:ND2	1:EC:285:GLN:NE2	2.61	0.48
2:DD:130:LEU:HB3	2:DD:162:ARG:HD2	1.95	0.48
2:DD:289:LEU:HD13	2:DD:365:VAL:HG23	1.96	0.48
1:DE:384:ILE:O	1:DE:387:VAL:HG22	2.13	0.48
2:EF:55:THR:H	2:FF:283:ALA:CB	2.25	0.48
1:FA:183:GLU:N	1:FA:184:PRO:HD2	2.29	0.48
1:FA:231:ILE:O	1:FA:235:ILE:HG12	2.14	0.48
1:FA:384:ILE:O	1:FA:387:VAL:HG22	2.13	0.48
2:FB:133:PHE:HB2	2:FB:164:MET:SD	2.54	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FC:422:ARG:HE	7:5A:1170:THR:C	2.22	0.48
2:FF:130:LEU:HB3	2:FF:162:ARG:HD2	1.95	0.48
1:GA:224:TYR:CE2	2:GB:246:LEU:HD11	2.44	0.48
2:GD:289:LEU:HD13	2:GD:365:VAL:HG23	1.96	0.48
1:GE:409:VAL:HG13	5:3A:383:GLU:OE2	1.93	0.48
1:HA:60:LYS:HZ2	1:IA:283:HIS:CE1	2.32	0.48
1:HA:317:MET:HA	1:HA:377:MET:HA	1.96	0.48
2:HB:289:LEU:HD13	2:HB:365:VAL:HG23	1.96	0.48
1:HC:317:MET:HA	1:HC:377:MET:HA	1.96	0.48
1:HE:231:ILE:O	1:HE:235:ILE:HG12	2.14	0.48
1:IA:183:GLU:N	1:IA:184:PRO:HD2	2.29	0.48
1:IC:183:GLU:N	1:IC:184:PRO:HD2	2.29	0.48
2:JB:289:LEU:HD13	2:JB:365:VAL:HG23	1.96	0.48
1:JE:135:PHE:HB2	1:JE:166:LYS:HG2	1.95	0.48
1:KA:179:THR:O	2:KB:350:LYS:HA	2.12	0.48
2:KB:54:ALA:CA	2:LB:285:THR:HG21	2.30	0.48
1:KC:135:PHE:HB2	1:KC:166:LYS:HG2	1.95	0.48
1:KC:384:ILE:O	1:KC:387:VAL:HG22	2.13	0.48
1:LA:222:PRO:CD	2:LB:324:LYS:CB	2.91	0.48
1:LA:384:ILE:O	1:LA:387:VAL:HG22	2.13	0.48
2:LB:25:SER:HG	2:LB:51:TYR:HH	1.56	0.48
2:LB:295:ASP:OD1	4:2C:150:GLN:OE1	2.32	0.48
1:LC:221:ARG:NH1	2:LD:324:LYS:H	2.09	0.48
2:LF:410:GLU:OE1	4:2B:182:PHE:HE1	1.97	0.48
1:ME:222:PRO:HG3	2:MF:324:LYS:HD3	1.93	0.48
4:2A:144:ASN:O	4:2A:145:GLN:CG	2.56	0.48
4:2B:144:ASN:ND2	4:2B:144:ASN:N	2.60	0.48
6:4A:168:PHE:HD1	6:4A:168:PHE:C	2.20	0.48
6:4A:278:TYR:HD1	6:4A:278:TYR:H	1.61	0.48
6:4D:230:TYR:O	6:4D:230:TYR:HD2	1.95	0.48
6:4D:239:LEU:C	6:4D:241:LYS:N	2.71	0.48
7:5A:1474:LEU:CD2	7:5A:1576:ILE:HD11	2.43	0.48
7:5B:844:PHE:CG	7:5B:849:ARG:HD2	2.48	0.48
7:5B:1474:LEU:CD2	7:5B:1576:ILE:HD11	2.43	0.48
7:5B:1499:LYS:HG2	7:5B:1503:TYR:CE2	2.49	0.48
7:5C:924:LEU:HB3	7:5C:1017:SER:HB2	1.95	0.48
7:5C:1125:LEU:HD11	8:6C:245:GLN:CD	2.13	0.48
7:5C:1412:LYS:C	7:5C:1412:LYS:CD	2.85	0.48
9:7A:18:VAL:HG21	9:7B:35:ILE:CG2	2.30	0.48
10:8R:33:UNK:C	10:8R:35:UNK:N	2.76	0.48
2:AB:212:PHE:CZ	1:AC:326:LYS:CE	2.93	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:135:PHE:HB2	1:AE:166:LYS:HG2	1.95	0.48
1:BA:135:PHE:HB2	1:BA:166:LYS:HG2	1.95	0.48
1:BC:183:GLU:N	1:BC:184:PRO:HD2	2.29	0.48
2:BD:133:PHE:HB2	2:BD:164:MET:SD	2.54	0.48
2:BD:390:ARG:CD	1:BE:439:THR:HG21	2.44	0.48
1:BE:222:PRO:CG	2:BF:324:LYS:CD	2.90	0.48
2:CB:289:LEU:HD13	2:CB:365:VAL:HG23	1.96	0.48
1:CE:71:GLU:CD	2:CF:247:ASN:ND2	2.72	0.48
1:CE:231:ILE:O	1:CE:235:ILE:HG12	2.14	0.48
1:DA:183:GLU:N	1:DA:184:PRO:HD2	2.29	0.48
1:DC:183:GLU:N	1:DC:184:PRO:HD2	2.29	0.48
2:DF:130:LEU:HB3	2:DF:162:ARG:HD2	1.95	0.48
1:FC:183:GLU:N	1:FC:184:PRO:HD2	2.29	0.48
1:FE:60:LYS:HD2	1:GE:283:HIS:HD2	1.77	0.48
1:FE:183:GLU:N	1:FE:184:PRO:HD2	2.29	0.48
2:GB:289:LEU:HD13	2:GB:365:VAL:HG23	1.96	0.48
2:GB:405:GLU:OE2	7:5C:1337:ASP:OD2	2.30	0.48
2:GD:130:LEU:HB3	2:GD:162:ARG:HD2	1.95	0.48
1:HC:231:ILE:O	1:HC:235:ILE:HG12	2.14	0.48
1:IA:231:ILE:O	1:IA:235:ILE:HG12	2.14	0.48
2:IB:424:GLN:CD	7:5C:1413:GLN:HE22	1.98	0.48
2:IB:424:GLN:HE21	7:5C:1413:GLN:HG3	1.78	0.48
2:ID:177:ASP:C	1:IE:352:LYS:HA	2.39	0.48
2:ID:289:LEU:HD13	2:ID:365:VAL:HG23	1.96	0.48
1:JA:183:GLU:N	1:JA:184:PRO:HD2	2.29	0.48
1:JC:91:GLN:H	1:KC:280:LYS:HZ3	1.48	0.48
1:JC:183:GLU:N	1:JC:184:PRO:HD2	2.29	0.48
1:JE:89:PRO:HD2	1:KE:283:HIS:CG	2.48	0.48
2:JF:85:PHE:CB	2:KF:281:TYR:OH	2.61	0.48
1:KA:87:PHE:C	1:LA:284:GLU:HA	2.39	0.48
1:KA:135:PHE:HB2	1:KA:166:LYS:HG2	1.95	0.48
2:KD:133:PHE:HB2	2:KD:164:MET:SD	2.54	0.48
2:LD:133:PHE:HB2	2:LD:164:MET:SD	2.54	0.48
2:LD:212:PHE:CZ	1:LE:326:LYS:CG	2.90	0.48
1:MA:135:PHE:HB2	1:MA:166:LYS:HG2	1.95	0.48
1:MA:183:GLU:N	1:MA:184:PRO:HD2	2.29	0.48
1:MA:231:ILE:O	1:MA:235:ILE:HG12	2.14	0.48
1:MA:398:MET:SD	2:MB:345:ILE:CG1	2.92	0.48
2:MB:111:GLU:CA	3:1A:62:SER:HA	2.39	0.48
2:MB:177:ASP:OD2	1:MC:248:LEU:HD23	2.13	0.48
1:MC:135:PHE:HB2	1:MC:166:LYS:HG2	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MC:183:GLU:N	1:MC:184:PRO:HD2	2.29	0.48
2:MD:133:PHE:HB2	2:MD:164:MET:SD	2.54	0.48
1:ME:183:GLU:N	1:ME:184:PRO:HD2	2.29	0.48
2:MF:133:PHE:HB2	2:MF:164:MET:SD	2.54	0.48
4:2C:144:ASN:O	4:2C:145:GLN:CG	2.56	0.48
7:5A:924:LEU:HB3	7:5A:1017:SER:HB2	1.95	0.48
7:5A:1499:LYS:HG2	7:5A:1503:TYR:CE2	2.49	0.48
7:5C:1142:PHE:CD1	7:5C:1146:LEU:HD12	2.45	0.48
7:5C:1474:LEU:CD2	7:5C:1576:ILE:HD11	2.43	0.48
8:6C:102:ASN:ND2	8:6C:134:LYS:O	2.47	0.48
10:8I:33:UNK:C	10:8I:35:UNK:N	2.76	0.48
10:8S:33:UNK:C	10:8S:35:UNK:N	2.76	0.48
1:AC:135:PHE:HB2	1:AC:166:LYS:HG2	1.95	0.48
2:BB:133:PHE:HB2	2:BB:164:MET:SD	2.54	0.48
2:BF:133:PHE:HB2	2:BF:164:MET:SD	2.54	0.48
1:CC:231:ILE:O	1:CC:235:ILE:HG12	2.14	0.48
2:CD:133:PHE:HB2	2:CD:164:MET:SD	2.54	0.48
2:DB:208:TYR:CD2	1:DC:326:LYS:HB3	2.49	0.48
2:DF:257:LEU:HA	2:DF:312:THR:HG21	1.96	0.48
2:FB:332:ASN:CB	7:5C:909:ASN:HD21	2.26	0.48
1:FC:384:ILE:O	1:FC:387:VAL:HG22	2.13	0.48
2:FD:133:PHE:HB2	2:FD:164:MET:SD	2.54	0.48
2:FF:402:GLY:O	7:5B:1296:GLU:OE2	2.32	0.48
1:HA:183:GLU:N	1:HA:184:PRO:HD2	2.29	0.48
1:HA:231:ILE:O	1:HA:235:ILE:HG12	2.14	0.48
1:HC:183:GLU:N	1:HC:184:PRO:HD2	2.29	0.48
1:HC:224:TYR:CE2	2:HD:246:LEU:HD11	2.43	0.48
2:HD:130:LEU:HB3	2:HD:162:ARG:HD2	1.95	0.48
1:HE:317:MET:HA	1:HE:377:MET:HA	1.96	0.48
2:HF:289:LEU:HD13	2:HF:365:VAL:HG23	1.96	0.48
2:IB:133:PHE:HB2	2:IB:164:MET:SD	2.54	0.48
2:ID:133:PHE:HB2	2:ID:164:MET:SD	2.54	0.48
2:ID:424:GLN:NE2	7:5A:1413:GLN:NE2	0.61	0.48
2:IF:289:LEU:HD13	2:IF:365:VAL:HG23	1.96	0.48
2:JB:133:PHE:HB2	2:JB:164:MET:SD	2.54	0.48
1:JC:88:HIS:CE1	1:JC:90:GLU:HG2	2.48	0.48
2:JF:87:PRO:CD	2:KF:281:TYR:CE2	2.53	0.48
2:JF:289:LEU:HD13	2:JF:365:VAL:HG23	1.96	0.48
2:KB:372:THR:HA	2:KB:422:TYR:CE2	2.48	0.48
1:LA:71:GLU:OE1	2:LB:247:ASN:ND2	2.46	0.48
1:LA:101:ASN:HD22	2:LB:252:LYS:HG3	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LB:179:VAL:HG23	1:LC:258:ASN:HA	1.92	0.48
2:LF:55:THR:H	2:MF:283:ALA:CA	2.26	0.48
4:2C:164:ARG:C	4:2C:164:ARG:CD	2.85	0.48
6:4A:230:TYR:O	6:4A:230:TYR:HD2	1.95	0.48
6:4B:278:TYR:HD1	6:4B:278:TYR:H	1.61	0.48
7:5A:1552:LYS:HZ1	7:5A:1563:SER:H	1.60	0.48
7:5C:1490:LYS:CB	7:5C:1495:PHE:HB2	2.43	0.48
9:7A:11:TYR:OH	9:7B:26:LEU:HB3	2.13	0.48
2:AD:133:PHE:HB2	2:AD:164:MET:SD	2.54	0.47
2:AD:212:PHE:HZ	1:AE:326:LYS:CE	2.19	0.47
2:AD:280:GLN:O	6:4C:141:LYS:NZ	2.34	0.47
1:AE:317:MET:HA	1:AE:377:MET:HA	1.96	0.47
2:AF:133:PHE:HB2	2:AF:164:MET:SD	2.54	0.47
1:BE:183:GLU:N	1:BE:184:PRO:HD2	2.29	0.47
1:CE:224:TYR:CE2	2:CF:246:LEU:HD11	2.46	0.47
2:CF:133:PHE:HB2	2:CF:164:MET:SD	2.54	0.47
2:DB:133:PHE:HB2	2:DB:164:MET:SD	2.54	0.47
2:DB:257:LEU:HA	2:DB:312:THR:HG21	1.96	0.47
1:DC:384:ILE:O	1:DC:387:VAL:HG22	2.13	0.47
1:DE:183:GLU:N	1:DE:184:PRO:HD2	2.29	0.47
2:DF:289:LEU:HD13	2:DF:365:VAL:HG23	1.96	0.47
2:EB:86:ARG:HD3	2:FB:281:TYR:HB3	1.52	0.47
2:EB:372:THR:HA	2:EB:422:TYR:CE2	2.48	0.47
1:FE:221:ARG:NH1	2:FF:324:LYS:N	2.62	0.47
1:FE:384:ILE:O	1:FE:387:VAL:HG22	2.13	0.47
1:FE:402:ARG:HH12	7:5B:1262:GLU:HB2	1.78	0.47
2:GB:130:LEU:HB3	2:GB:162:ARG:HD2	1.95	0.47
1:GC:224:TYR:CE2	2:GD:246:LEU:HD11	2.43	0.47
1:GE:60:LYS:HZ2	1:HE:283:HIS:CE1	2.30	0.47
2:HB:133:PHE:HB2	2:HB:164:MET:SD	2.54	0.47
2:HD:133:PHE:HB2	2:HD:164:MET:SD	2.54	0.47
2:HD:289:LEU:HD13	2:HD:365:VAL:HG23	1.96	0.47
1:JC:179:THR:O	2:JD:350:LYS:HA	2.13	0.47
2:JD:133:PHE:HB2	2:JD:164:MET:SD	2.54	0.47
2:JD:289:LEU:HD13	2:JD:365:VAL:HG23	1.96	0.47
2:JF:133:PHE:HB2	2:JF:164:MET:SD	2.54	0.47
2:KB:133:PHE:HB2	2:KB:164:MET:SD	2.54	0.47
2:KB:177:ASP:C	1:KC:352:LYS:HA	2.39	0.47
2:KB:228:LEU:HG	6:4A:267:ILE:CD1	2.44	0.47
2:KD:257:LEU:HA	2:KD:312:THR:HG21	1.96	0.47
2:KF:133:PHE:HB2	2:KF:164:MET:SD	2.54	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LB:133:PHE:HB2	2:LB:164:MET:SD	2.54	0.47
2:LB:224:ASP:CG	6:4A:219:ASN:ND2	2.65	0.47
2:LD:54:ALA:CA	2:MD:283:ALA:HB2	2.44	0.47
1:LE:183:GLU:N	1:LE:184:PRO:HD2	2.29	0.47
2:LF:416:ASN:HA	4:2B:168:LEU:HD11	1.96	0.47
1:MA:71:GLU:CD	2:MB:247:ASN:HD22	2.21	0.47
2:MB:133:PHE:HB2	2:MB:164:MET:SD	2.54	0.47
1:MC:231:ILE:O	1:MC:235:ILE:HG12	2.14	0.47
6:4B:178:HIS:ND1	6:4B:178:HIS:C	2.72	0.47
6:4B:230:TYR:O	6:4B:230:TYR:HD2	1.95	0.47
6:4D:164:ARG:NH1	6:4D:164:ARG:CB	2.72	0.47
7:5A:1285:ARG:N	7:5A:1285:ARG:CD	2.73	0.47
7:5A:1406:PHE:O	7:5A:1410:ASN:N	2.31	0.47
7:5B:924:LEU:HB3	7:5B:1017:SER:HB2	1.95	0.47
7:5C:1285:ARG:N	7:5C:1285:ARG:CD	2.73	0.47
7:5C:1416:LYS:NZ	7:5C:1416:LYS:CA	2.72	0.47
7:5C:1499:LYS:HG2	7:5C:1503:TYR:CE2	2.49	0.47
1:AA:135:PHE:HB2	1:AA:166:LYS:HG2	1.95	0.47
1:AA:317:MET:HA	1:AA:377:MET:HA	1.96	0.47
1:AC:231:ILE:O	1:AC:235:ILE:HG12	2.14	0.47
1:AC:317:MET:HA	1:AC:377:MET:HA	1.96	0.47
1:AE:284:GLU:CA	2:MB:54:ALA:HB1	2.43	0.47
1:AE:404:PHE:CE2	2:AF:345:ILE:HD11	2.48	0.47
2:CB:133:PHE:HB2	2:CB:164:MET:SD	2.54	0.47
1:DA:384:ILE:O	1:DA:387:VAL:HG22	2.13	0.47
2:DD:257:LEU:HA	2:DD:312:THR:HG21	1.96	0.47
2:ED:177:ASP:CA	1:EE:353:VAL:HG12	2.44	0.47
2:ED:257:LEU:HA	2:ED:312:THR:HG21	1.96	0.47
1:FC:181:VAL:HG12	2:FD:348:ASN:HA	1.95	0.47
2:FF:133:PHE:HB2	2:FF:164:MET:SD	2.55	0.47
2:FF:332:ASN:CG	7:5B:909:ASN:ND2	2.71	0.47
2:GD:55:THR:H	2:HD:283:ALA:N	2.11	0.47
2:GD:226:ASN:ND2	13:GD:501:GDP:HN1	2.12	0.47
1:GE:222:PRO:HD2	2:GF:324:LYS:HD3	1.96	0.47
1:HA:71:GLU:CD	2:HB:247:ASN:ND2	2.71	0.47
2:IB:177:ASP:C	1:IC:352:LYS:HA	2.39	0.47
1:IE:183:GLU:N	1:IE:184:PRO:HD2	2.29	0.47
1:JA:71:GLU:CD	2:JB:247:ASN:ND2	2.71	0.47
2:JD:177:ASP:C	1:JE:352:LYS:HA	2.39	0.47
1:JE:88:HIS:CE1	1:JE:90:GLU:HG2	2.48	0.47
1:JE:183:GLU:N	1:JE:184:PRO:HD2	2.29	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:257:LEU:HA	2:KF:312:THR:HG21	1.96	0.47
1:LC:384:ILE:O	1:LC:387:VAL:HG22	2.13	0.47
1:LE:384:ILE:O	1:LE:387:VAL:HG22	2.13	0.47
2:LF:133:PHE:HB2	2:LF:164:MET:SD	2.54	0.47
6:4A:97:GLN:HA	6:4A:98:PRO:HD3	1.58	0.47
6:4A:178:HIS:ND1	6:4A:178:HIS:C	2.72	0.47
6:4B:239:LEU:C	6:4B:241:LYS:N	2.71	0.47
6:4C:168:PHE:HD1	6:4C:168:PHE:C	2.20	0.47
6:4D:215:LYS:HB2	6:4D:215:LYS:HE3	1.47	0.47
7:5A:836:ARG:CB	7:5A:836:ARG:NH1	2.73	0.47
7:5A:1490:LYS:CB	7:5A:1495:PHE:HB2	2.43	0.47
7:5C:836:ARG:CB	7:5C:836:ARG:NH1	2.73	0.47
1:AA:183:GLU:N	1:AA:184:PRO:HD2	2.29	0.47
2:AB:257:LEU:HA	2:AB:312:THR:HG21	1.96	0.47
1:AE:231:ILE:O	1:AE:235:ILE:HG12	2.14	0.47
2:BB:248:SER:HA	2:BB:252:LYS:HE2	1.97	0.47
1:CA:231:ILE:O	1:CA:235:ILE:HG12	2.14	0.47
1:CE:241:SER:OG	1:CE:250:VAL:O	2.23	0.47
2:CF:257:LEU:HA	2:CF:312:THR:HG21	1.96	0.47
2:DD:133:PHE:HB2	2:DD:164:MET:SD	2.54	0.47
1:EA:183:GLU:N	1:EA:184:PRO:HD2	2.29	0.47
2:EB:257:LEU:HA	2:EB:312:THR:HG21	1.96	0.47
1:EC:241:SER:OG	1:EC:250:VAL:O	2.23	0.47
2:ED:372:THR:HA	2:ED:422:TYR:CE2	2.48	0.47
1:FA:402:ARG:CZ	7:5C:1259:TYR:HA	2.44	0.47
1:FE:179:THR:O	2:FF:350:LYS:HA	2.15	0.47
1:FE:317:MET:HA	1:FE:377:MET:HA	1.96	0.47
2:GB:226:ASN:ND2	13:GB:501:GDP:HN1	2.12	0.47
2:GB:248:SER:HA	2:GB:252:LYS:HE2	1.97	0.47
2:GD:248:SER:HA	2:GD:252:LYS:HE2	1.97	0.47
2:GD:257:LEU:HA	2:GD:312:THR:HG21	1.96	0.47
2:GF:86:ARG:NH2	2:HF:281:TYR:CE1	2.65	0.47
2:GF:257:LEU:HA	2:GF:312:THR:HG21	1.96	0.47
1:HE:183:GLU:N	1:HE:184:PRO:HD2	2.29	0.47
2:IB:248:SER:HA	2:IB:252:LYS:HE2	1.97	0.47
2:IF:133:PHE:HB2	2:IF:164:MET:SD	2.54	0.47
2:IF:248:SER:HA	2:IF:252:LYS:HE2	1.97	0.47
1:JA:222:PRO:HG3	2:JB:324:LYS:HD3	1.94	0.47
2:JB:86:ARG:CZ	2:KB:280:GLN:CA	2.92	0.47
1:KA:357:TYR:CE1	6:4C:257:LEU:HG	2.49	0.47
2:KB:257:LEU:HA	2:KB:312:THR:HG21	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KD:372:THR:HA	2:KD:422:TYR:CE2	2.48	0.47
2:LF:295:ASP:OD1	4:2B:150:GLN:HB2	2.14	0.47
2:MD:179:VAL:CG2	1:ME:258:ASN:O	2.40	0.47
1:ME:231:ILE:O	1:ME:235:ILE:HG12	2.14	0.47
6:4A:251:TYR:CZ	6:4A:280:VAL:CG1	2.97	0.47
6:4C:178:HIS:ND1	6:4C:178:HIS:C	2.72	0.47
6:4D:278:TYR:HD1	6:4D:278:TYR:H	1.61	0.47
7:5A:1142:PHE:CD1	7:5A:1146:LEU:HD12	2.45	0.47
7:5B:844:PHE:CD2	7:5B:849:ARG:CD	2.96	0.47
7:5C:773:ARG:C	7:5C:773:ARG:CD	2.85	0.47
7:5C:1436:ARG:CG	7:5C:1436:ARG:NH1	2.71	0.47
10:8U:33:UNK:C	10:8U:35:UNK:N	2.76	0.47
10:8V:33:UNK:C	10:8V:35:UNK:N	2.76	0.47
2:AB:133:PHE:HB2	2:AB:164:MET:SD	2.54	0.47
1:AE:60:LYS:NZ	1:BE:283:HIS:CE1	2.83	0.47
2:BB:257:LEU:HA	2:BB:312:THR:HG21	1.96	0.47
2:BD:248:SER:HA	2:BD:252:LYS:HE2	1.97	0.47
2:BF:248:SER:HA	2:BF:252:LYS:HE2	1.97	0.47
2:CD:212:PHE:HE2	1:CE:326:LYS:HB2	1.80	0.47
2:CF:100:ASN:HD22	2:CF:103:LYS:HB2	1.79	0.47
2:DB:100:ASN:HD22	2:DB:103:LYS:HB2	1.79	0.47
1:DC:400:ALA:CA	7:5A:775:PRO:HB3	2.44	0.47
1:DE:317:MET:HA	1:DE:377:MET:HA	1.96	0.47
2:DF:133:PHE:HB2	2:DF:164:MET:SD	2.55	0.47
2:DF:226:ASN:ND2	13:DF:501:GDP:HN1	2.12	0.47
1:EC:183:GLU:N	1:EC:184:PRO:HD2	2.29	0.47
2:EF:257:LEU:HA	2:EF:312:THR:HG21	1.96	0.47
1:FA:317:MET:HA	1:FA:377:MET:HA	1.96	0.47
1:FC:317:MET:HA	1:FC:377:MET:HA	1.96	0.47
2:FD:106:TYR:O	7:5A:1298:LYS:CD	2.61	0.47
1:GA:183:GLU:N	1:GA:184:PRO:HD2	2.29	0.47
1:GC:89:PRO:CD	1:HC:280:LYS:HZ1	2.21	0.47
2:GD:133:PHE:HB2	2:GD:164:MET:SD	2.54	0.47
2:HD:177:ASP:C	1:HE:352:LYS:HA	2.39	0.47
2:HF:133:PHE:HB2	2:HF:164:MET:SD	2.54	0.47
2:ID:248:SER:HA	2:ID:252:LYS:HE2	1.97	0.47
2:ID:424:GLN:NE2	7:5A:1413:GLN:HE21	0.55	0.47
2:KB:276:ARG:NH2	6:4A:265:TYR:CB	2.75	0.47
2:KD:215:LEU:HD13	6:4B:267:ILE:CB	2.41	0.47
1:LC:183:GLU:N	1:LC:184:PRO:HD2	2.29	0.47
2:LF:100:ASN:HD22	2:LF:103:LYS:HB2	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MB:110:ALA:C	3:1A:61:HIS:HB3	2.36	0.47
1:MC:279:GLU:HB2	6:4A:110:LYS:CE	2.43	0.47
5:3C:71:LYS:HE2	5:3C:87:LEU:HD22	1.96	0.47
6:4B:251:TYR:CZ	6:4B:280:VAL:CG1	2.97	0.47
7:5A:841:VAL:HG23	8:6A:11:PRO:CA	2.41	0.47
7:5A:844:PHE:CD2	7:5A:849:ARG:CD	2.96	0.47
7:5B:836:ARG:CB	7:5B:836:ARG:NH1	2.73	0.47
7:5B:1285:ARG:N	7:5B:1285:ARG:CD	2.73	0.47
7:5B:1490:LYS:CB	7:5B:1495:PHE:HB2	2.44	0.47
7:5C:844:PHE:CD2	7:5C:849:ARG:CD	2.96	0.47
7:5C:1244:LEU:HD12	7:5C:1244:LEU:HA	1.61	0.47
7:5C:1377:LYS:HB2	7:5C:1377:LYS:HE3	1.44	0.47
7:5C:1404:LYS:HE3	7:5C:1404:LYS:HB3	1.49	0.47
8:6A:4:LYS:HD3	8:6A:6:TYR:HH	1.79	0.47
8:6B:102:ASN:ND2	8:6B:134:LYS:O	2.47	0.47
10:8W:33:UNK:C	10:8W:35:UNK:N	2.76	0.47
1:AC:183:GLU:N	1:AC:184:PRO:HD2	2.29	0.47
2:AD:177:ASP:C	1:AE:352:LYS:HA	2.39	0.47
2:AD:257:LEU:HA	2:AD:312:THR:HG21	1.96	0.47
2:AD:356:ILE:CG2	6:4C:152:PHE:HE1	2.27	0.47
1:BE:317:MET:HA	1:BE:377:MET:HA	1.96	0.47
1:CC:222:PRO:CG	2:CD:324:LYS:CD	2.91	0.47
1:CE:317:MET:HA	1:CE:377:MET:HA	1.96	0.47
1:DA:221:ARG:NH1	2:DB:324:LYS:N	2.62	0.47
1:DA:402:ARG:CD	7:5C:777:ALA:HB2	2.44	0.47
2:DB:226:ASN:ND2	13:DB:501:GDP:HN1	2.12	0.47
2:DD:55:THR:HG23	2:ED:283:ALA:HA	1.96	0.47
2:DD:226:ASN:ND2	13:DD:501:GDP:HN1	2.12	0.47
1:DE:258:ASN:ND2	1:DE:352:LYS:HD3	2.30	0.47
2:DF:100:ASN:HD22	2:DF:103:LYS:HB2	1.79	0.47
1:EE:183:GLU:N	1:EE:184:PRO:HD2	2.29	0.47
1:FC:87:PHE:O	1:GC:280:LYS:NZ	2.47	0.47
1:FC:404:PHE:CE2	2:FD:345:ILE:HD11	2.50	0.47
2:GB:133:PHE:HB2	2:GB:164:MET:SD	2.54	0.47
2:GB:257:LEU:HA	2:GB:312:THR:HG21	1.96	0.47
1:GC:183:GLU:N	1:GC:184:PRO:HD2	2.29	0.47
2:GF:133:PHE:HB2	2:GF:164:MET:SD	2.54	0.47
2:GF:248:SER:HA	2:GF:252:LYS:HE2	1.97	0.47
1:HC:278:ALA:HB2	10:8T:18:UNK:O	2.05	0.47
1:HE:222:PRO:HD2	2:HF:324:LYS:HD3	1.96	0.47
2:JF:11:GLN:O	2:JF:15:GLN:HG2	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KD:55:THR:OG1	2:LD:284:LEU:O	2.30	0.47
2:KF:91:VAL:HG21	2:KF:116:VAL:HB	1.96	0.47
1:LA:183:GLU:N	1:LA:184:PRO:HD2	2.29	0.47
2:LF:224:ASP:CB	6:4D:219:ASN:HD21	2.27	0.47
2:MB:11:GLN:O	2:MB:15:GLN:HG2	2.15	0.47
2:MB:176:SER:OG	1:MC:349:THR:OG1	2.19	0.47
2:MF:248:SER:HA	2:MF:252:LYS:HE2	1.97	0.47
4:2A:143:LEU:HB3	4:2A:144:ASN:H	1.60	0.47
4:2C:143:LEU:HB3	4:2C:144:ASN:H	1.60	0.47
6:4B:97:GLN:HA	6:4B:98:PRO:HD3	1.58	0.47
6:4C:251:TYR:CZ	6:4C:280:VAL:CG1	2.97	0.47
7:5A:840:GLY:HA3	8:6A:109:ILE:HG21	1.96	0.47
7:5A:1436:ARG:CG	7:5A:1436:ARG:NH1	2.71	0.47
7:5B:1480:VAL:HG22	7:5B:1572:LEU:HD13	1.97	0.47
7:5C:1131:PHE:HE1	8:6C:253:PHE:CE1	2.32	0.47
8:6A:102:ASN:ND2	8:6A:134:LYS:O	2.47	0.47
2:AB:91:VAL:HG21	2:AB:116:VAL:HB	1.96	0.47
2:AD:11:GLN:O	2:AD:15:GLN:HG2	2.15	0.47
1:AE:222:PRO:HD2	2:AF:324:LYS:HD3	1.96	0.47
2:AF:11:GLN:O	2:AF:15:GLN:HG2	2.15	0.47
1:BC:317:MET:HA	1:BC:377:MET:HA	1.96	0.47
2:BD:177:ASP:CA	1:BE:353:VAL:HG12	2.44	0.47
2:CB:179:VAL:HG22	1:CC:258:ASN:CA	2.45	0.47
2:CD:390:ARG:CD	1:CE:439:THR:HG21	2.45	0.47
1:DA:258:ASN:ND2	1:DA:352:LYS:HD3	2.30	0.47
1:DC:258:ASN:ND2	1:DC:352:LYS:HD3	2.30	0.47
1:DC:317:MET:HA	1:DC:377:MET:HA	1.96	0.47
1:DC:402:ARG:HE	7:5A:777:ALA:HB3	1.49	0.47
2:DD:100:ASN:HD22	2:DD:103:LYS:HB2	1.80	0.47
1:EC:423:GLU:CD	7:5A:830:VAL:CG1	2.60	0.47
13:ED:502:GDP:H8	1:EE:248:LEU:CD1	2.28	0.47
1:EE:317:MET:HA	1:EE:377:MET:HA	1.96	0.47
2:EF:25:SER:OG	2:EF:51:TYR:OH	2.32	0.47
1:FE:177:VAL:N	7:5B:915:PHE:CZ	2.82	0.47
1:FE:404:PHE:CE2	2:FF:345:ILE:HD11	2.50	0.47
1:GC:258:ASN:ND2	1:GC:352:LYS:HD3	2.30	0.47
1:GC:317:MET:HA	1:GC:377:MET:HA	1.96	0.47
1:GE:258:ASN:ND2	1:GE:352:LYS:HD3	2.30	0.47
1:GE:317:MET:HA	1:GE:377:MET:HA	1.96	0.47
2:HD:55:THR:HG23	2:ID:283:ALA:HA	1.97	0.47
1:HE:60:LYS:HD3	1:IE:283:HIS:CD2	2.49	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HF:11:GLN:O	2:HF:15:GLN:HG2	2.15	0.47
1:JE:222:PRO:HD2	2:JF:324:LYS:HD3	1.96	0.47
1:KA:258:ASN:ND2	1:KA:352:LYS:HD3	2.30	0.47
2:KD:124:ALA:O	4:2A:38:VAL:CG1	2.60	0.47
1:KE:222:PRO:HG3	2:KF:324:LYS:HD3	1.95	0.47
2:KF:162:ARG:HG3	4:2B:36:THR:HB	1.96	0.47
1:LE:222:PRO:CG	2:LF:324:LYS:CB	2.91	0.47
1:LE:222:PRO:HG3	2:LF:324:LYS:HD3	1.72	0.47
2:LF:257:LEU:HA	2:LF:312:THR:HG21	1.96	0.47
1:MA:357:TYR:CE2	6:4C:185:ARG:NH2	2.71	0.47
2:MB:248:SER:HA	2:MB:252:LYS:HE2	1.97	0.47
5:3A:71:LYS:HE2	5:3A:87:LEU:HD22	1.96	0.47
6:4A:239:LEU:C	6:4A:241:LYS:N	2.71	0.47
6:4D:108:LYS:HE2	6:4D:108:LYS:HB3	1.36	0.47
6:4D:251:TYR:CZ	6:4D:280:VAL:CG1	2.98	0.47
7:5A:1122:LYS:HB2	7:5A:1124:ILE:HG12	1.97	0.47
7:5A:1416:LYS:NZ	7:5A:1416:LYS:CA	2.72	0.47
7:5A:1480:VAL:HG22	7:5A:1572:LEU:HD13	1.97	0.47
7:5B:1407:GLN:NE2	7:5B:1407:GLN:C	2.71	0.47
7:5C:1122:LYS:HB2	7:5C:1124:ILE:HG12	1.97	0.47
7:5C:1480:VAL:HG22	7:5C:1572:LEU:HD13	1.97	0.47
7:5C:1552:LYS:HZ1	7:5C:1563:SER:H	1.60	0.47
10:8K:33:UNK:C	10:8K:35:UNK:N	2.76	0.47
2:AB:11:GLN:O	2:AB:15:GLN:HG2	2.15	0.47
2:AB:177:ASP:C	1:AC:352:LYS:HA	2.39	0.47
2:AB:372:THR:HA	2:AB:422:TYR:CE2	2.48	0.47
1:AC:222:PRO:HG3	2:AD:324:LYS:HD3	1.95	0.47
2:AD:91:VAL:HG21	2:AD:116:VAL:HB	1.96	0.47
2:AD:356:ILE:CG2	6:4C:152:PHE:CE1	2.97	0.47
2:AD:357:PRO:O	6:4C:151:ARG:NE	2.48	0.47
2:AF:91:VAL:HG21	2:AF:116:VAL:HB	1.96	0.47
2:AF:257:LEU:HA	2:AF:312:THR:HG21	1.96	0.47
2:BB:11:GLN:O	2:BB:15:GLN:HG2	2.15	0.47
2:BB:100:ASN:HD22	2:BB:103:LYS:HB2	1.79	0.47
2:BD:257:LEU:HA	2:BD:312:THR:HG21	1.96	0.47
1:CA:224:TYR:CE2	2:CB:246:LEU:HD11	2.46	0.47
1:CA:317:MET:HA	1:CA:377:MET:HA	1.96	0.47
2:CB:100:ASN:HD22	2:CB:103:LYS:HB2	1.79	0.47
1:CC:317:MET:HA	1:CC:377:MET:HA	1.96	0.47
2:CD:100:ASN:HD22	2:CD:103:LYS:HB2	1.79	0.47
2:CD:248:SER:HA	2:CD:252:LYS:HE2	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:257:LEU:HA	2:CD:312:THR:HG21	1.96	0.47
1:CE:258:ASN:ND2	1:CE:352:LYS:HD3	2.30	0.47
2:CF:248:SER:HA	2:CF:252:LYS:HE2	1.97	0.47
1:DE:147:SER:HB2	1:DE:190:SER:HB3	1.97	0.47
1:DE:176:GLN:O	2:DF:347:ASN:ND2	2.38	0.47
1:EA:317:MET:HA	1:EA:377:MET:HA	1.96	0.47
1:EA:396:ASP:OD2	7:5C:817:LEU:HD23	2.15	0.47
2:EF:133:PHE:HB2	2:EF:164:MET:SD	2.54	0.47
2:EF:372:THR:HA	2:EF:422:TYR:CE2	2.48	0.47
2:FB:248:SER:HA	2:FB:252:LYS:HE2	1.97	0.47
1:FE:258:ASN:ND2	1:FE:352:LYS:HD3	2.30	0.47
1:FE:402:ARG:HD3	7:5B:1259:TYR:CB	2.44	0.47
1:GA:258:ASN:ND2	1:GA:352:LYS:HD3	2.30	0.47
1:GA:317:MET:HA	1:GA:377:MET:HA	1.96	0.47
2:GD:100:ASN:HD22	2:GD:103:LYS:HB2	1.79	0.47
2:GD:177:ASP:C	1:GE:352:LYS:HA	2.39	0.47
2:GF:11:GLN:O	2:GF:15:GLN:HG2	2.15	0.47
2:GF:100:ASN:HD22	2:GF:103:LYS:HB2	1.80	0.47
2:HB:177:ASP:C	1:HC:352:LYS:HA	2.39	0.47
2:HD:11:GLN:O	2:HD:15:GLN:HG2	2.15	0.47
1:HE:147:SER:HB2	1:HE:190:SER:HB3	1.97	0.47
1:HE:398:MET:SD	2:HF:345:ILE:CG1	2.92	0.47
2:HF:257:LEU:HA	2:HF:312:THR:HG21	1.96	0.47
2:ID:226:ASN:ND2	13:ID:501:GDP:HN1	2.12	0.47
2:IF:11:GLN:O	2:IF:15:GLN:HG2	2.15	0.47
2:IF:226:ASN:ND2	13:IF:501:GDP:HN1	2.12	0.47
1:JA:279:GLU:HA	10:8Y:22:UNK:CB	2.44	0.47
2:JB:85:PHE:HB3	2:KB:281:TYR:OH	2.15	0.47
2:JB:177:ASP:C	1:JC:352:LYS:HA	2.39	0.47
2:JD:11:GLN:O	2:JD:15:GLN:HG2	2.15	0.47
2:KB:91:VAL:HG21	2:KB:116:VAL:HB	1.96	0.47
2:KB:217:LEU:CA	6:4A:265:TYR:OH	2.57	0.47
1:KC:79:ARG:C	1:LC:280:LYS:NZ	2.69	0.47
1:KC:258:ASN:ND2	1:KC:352:LYS:HD3	2.30	0.47
2:KD:11:GLN:O	2:KD:15:GLN:HG2	2.15	0.47
2:KD:91:VAL:HG21	2:KD:116:VAL:HB	1.97	0.47
2:KF:372:THR:HA	2:KF:422:TYR:CE2	2.48	0.47
2:LB:11:GLN:O	2:LB:15:GLN:HG2	2.15	0.47
1:LC:258:ASN:ND2	1:LC:352:LYS:HD3	2.30	0.47
2:LD:100:ASN:HD22	2:LD:103:LYS:HB2	1.79	0.47
1:LE:258:ASN:ND2	1:LE:352:LYS:HD3	2.30	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LF:54:ALA:CA	2:MF:283:ALA:HB2	2.45	0.47
2:MB:91:VAL:HG21	2:MB:116:VAL:HB	1.97	0.47
2:MD:11:GLN:O	2:MD:15:GLN:HG2	2.15	0.47
2:MD:248:SER:HA	2:MD:252:LYS:HE2	1.97	0.47
2:MF:11:GLN:O	2:MF:15:GLN:HG2	2.15	0.47
2:MF:221:THR:CB	6:4D:189:ARG:NH1	2.78	0.47
5:3B:71:LYS:HE2	5:3B:87:LEU:HD22	1.96	0.47
6:4A:113:ILE:HB	6:4A:117:ARG:HH21	1.79	0.47
6:4C:113:ILE:HB	6:4C:117:ARG:HH21	1.79	0.47
7:5A:806:GLN:HE21	7:5A:806:GLN:C	2.22	0.47
7:5A:843:LEU:N	7:5A:843:LEU:CD2	2.78	0.47
7:5A:1407:GLN:NE2	7:5A:1407:GLN:C	2.71	0.47
7:5A:1424:GLN:NE2	7:5A:1424:GLN:HA	2.29	0.47
7:5A:1534:ILE:HA	7:5A:1581:ILE:HB	1.97	0.47
7:5B:806:GLN:C	7:5B:806:GLN:HE21	2.22	0.47
7:5B:843:LEU:N	7:5B:843:LEU:CD2	2.78	0.47
7:5B:1122:LYS:HB2	7:5B:1124:ILE:HG12	1.97	0.47
7:5B:1142:PHE:CD1	7:5B:1146:LEU:HD12	2.45	0.47
7:5B:1436:ARG:NE	7:5B:1436:ARG:C	2.72	0.47
7:5B:1534:ILE:HA	7:5B:1581:ILE:HB	1.97	0.47
7:5C:843:LEU:CD2	7:5C:843:LEU:N	2.78	0.47
7:5C:1342:GLU:HA	7:5C:1342:GLU:OE2	2.15	0.47
7:5C:1407:GLN:NE2	7:5C:1407:GLN:C	2.71	0.47
7:5C:1424:GLN:NE2	7:5C:1424:GLN:HA	2.29	0.47
7:5C:1534:ILE:HA	7:5C:1581:ILE:HB	1.97	0.47
8:6C:46:ILE:HG21	8:6C:149:ILE:HG23	1.96	0.47
9:7C:10:TYR:OH	9:7D:31:PRO:O	2.21	0.47
1:AE:183:GLU:N	1:AE:184:PRO:HD2	2.29	0.47
1:BA:317:MET:HA	1:BA:377:MET:HA	1.96	0.47
2:BD:11:GLN:O	2:BD:15:GLN:HG2	2.15	0.47
2:BD:100:ASN:HD22	2:BD:103:LYS:HB2	1.79	0.47
2:BF:11:GLN:O	2:BF:15:GLN:HG2	2.15	0.47
2:BF:257:LEU:HA	2:BF:312:THR:HG21	1.96	0.47
1:CA:71:GLU:CD	2:CB:247:ASN:ND2	2.73	0.47
2:CB:176:SER:CB	1:CC:349:THR:HG1	2.27	0.47
2:CB:248:SER:HA	2:CB:252:LYS:HE2	1.97	0.47
2:CB:257:LEU:HA	2:CB:312:THR:HG21	1.96	0.47
1:CC:2:ARG:HD2	1:CC:242:LEU:O	2.15	0.47
1:DA:317:MET:HA	1:DA:377:MET:HA	1.96	0.47
1:DA:414:GLU:OE2	7:5C:789:LYS:NZ	2.47	0.47
2:EB:248:SER:HA	2:EB:252:LYS:HE2	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:56:THR:OG1	1:GA:284:GLU:CA	2.62	0.47
2:FB:55:THR:OG1	2:GB:283:ALA:HA	2.13	0.47
1:GC:188:ILE:HD12	1:GC:425:LEU:CD1	2.45	0.47
2:GD:11:GLN:O	2:GD:15:GLN:HG2	2.15	0.47
1:GE:183:GLU:N	1:GE:184:PRO:HD2	2.29	0.47
1:GE:188:ILE:HD12	1:GE:425:LEU:CD1	2.45	0.47
1:HA:147:SER:HB2	1:HA:190:SER:HB3	1.97	0.47
1:HC:258:ASN:ND2	1:HC:352:LYS:HD3	2.30	0.47
1:IA:369:ALA:HB1	10:8V:18:UNK:HA	1.96	0.47
2:ID:11:GLN:O	2:ID:15:GLN:HG2	2.15	0.47
2:JB:11:GLN:O	2:JB:15:GLN:HG2	2.15	0.47
1:JC:89:PRO:HD2	1:KC:280:LYS:HA	1.96	0.47
2:KB:11:GLN:O	2:KB:15:GLN:HG2	2.15	0.47
2:KF:11:GLN:O	2:KF:15:GLN:HG2	2.15	0.47
1:LA:258:ASN:ND2	1:LA:352:LYS:HD3	2.30	0.47
2:LD:11:GLN:O	2:LD:15:GLN:HG2	2.15	0.47
1:LE:147:SER:HB2	1:LE:190:SER:HB3	1.97	0.47
2:MD:208:TYR:OH	1:ME:325:PRO:HB2	2.15	0.47
2:MF:100:ASN:HD22	2:MF:103:LYS:HB2	1.79	0.47
6:4D:161:LYS:HE2	6:4D:164:ARG:HH22	1.80	0.47
6:4D:241:LYS:HD3	6:4D:241:LYS:HA	1.51	0.47
7:5A:1436:ARG:NE	7:5A:1436:ARG:C	2.72	0.47
7:5A:1440:GLU:HA	7:5A:1440:GLU:OE1	2.15	0.47
7:5B:800:LYS:HE2	7:5B:800:LYS:HB2	1.82	0.47
7:5B:1370:LYS:HD3	7:5B:1373:PHE:CZ	2.49	0.47
7:5C:1436:ARG:NE	7:5C:1436:ARG:C	2.72	0.47
7:5C:1440:GLU:OE1	7:5C:1440:GLU:HA	2.15	0.47
8:6B:46:ILE:HG21	8:6B:149:ILE:HG23	1.96	0.47
10:8J:33:UNK:C	10:8J:35:UNK:N	2.76	0.47
1:AC:2:ARG:HD2	1:AC:242:LEU:O	2.15	0.47
2:BB:91:VAL:HG21	2:BB:116:VAL:HB	1.97	0.47
2:BB:390:ARG:HD2	1:BC:439:THR:HG21	1.97	0.47
2:BF:91:VAL:HG21	2:BF:116:VAL:HB	1.96	0.47
2:BF:100:ASN:HD22	2:BF:103:LYS:HB2	1.79	0.47
2:BF:372:THR:HA	2:BF:422:TYR:CE2	2.48	0.47
2:CB:220:PRO:HD2	1:CC:326:LYS:CD	2.45	0.47
1:DA:147:SER:HB2	1:DA:190:SER:HB3	1.97	0.47
1:DC:2:ARG:HD2	1:DC:242:LEU:O	2.15	0.47
1:DC:147:SER:HB2	1:DC:190:SER:HB3	1.97	0.47
1:DE:402:ARG:HD2	7:5B:777:ALA:CB	2.43	0.47
1:EA:258:ASN:ND2	1:EA:352:LYS:HD3	2.30	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EC:317:MET:HA	1:EC:377:MET:HA	1.96	0.47
2:ED:248:SER:HA	2:ED:252:LYS:HE2	1.97	0.47
1:FC:258:ASN:ND2	1:FC:352:LYS:HD3	2.30	0.47
1:FC:398:MET:SD	2:FD:345:ILE:CG1	2.88	0.47
2:FD:248:SER:HA	2:FD:252:LYS:HE2	1.97	0.47
2:FF:100:ASN:HD22	2:FF:103:LYS:HB2	1.79	0.47
2:FF:248:SER:HA	2:FF:252:LYS:HE2	1.97	0.47
1:GA:188:ILE:HD12	1:GA:425:LEU:CD1	2.45	0.47
2:GB:11:GLN:O	2:GB:15:GLN:HG2	2.15	0.47
2:GB:100:ASN:HD22	2:GB:103:LYS:HB2	1.80	0.47
2:HB:11:GLN:O	2:HB:15:GLN:HG2	2.15	0.47
1:HC:188:ILE:HD12	1:HC:425:LEU:CD1	2.45	0.47
2:ID:25:SER:HG	2:ID:51:TYR:HH	1.56	0.47
1:JE:92:LEU:H	1:KE:280:LYS:HZ1	1.61	0.47
2:KB:100:ASN:HD22	2:KB:103:LYS:HB2	1.79	0.47
2:KD:217:LEU:CG	6:4B:263:CYS:SG	3.02	0.47
1:KE:258:ASN:ND2	1:KE:352:LYS:HD3	2.30	0.47
1:LA:147:SER:HB2	1:LA:190:SER:HB3	1.97	0.47
2:LB:384:GLN:HB3	1:LC:348:PRO:HG2	1.97	0.47
1:LC:221:ARG:HH11	2:LD:325:GLU:H	1.63	0.47
2:LD:257:LEU:HA	2:LD:312:THR:HG21	1.96	0.47
2:MB:257:LEU:HA	2:MB:312:THR:HG21	1.96	0.47
2:MD:91:VAL:HG21	2:MD:116:VAL:HB	1.97	0.47
1:ME:394:LYS:NZ	2:MF:347:ASN:OD1	2.47	0.47
2:MF:91:VAL:HG21	2:MF:116:VAL:HB	1.96	0.47
4:2A:12:LEU:HB3	4:2A:17:ILE:CG1	2.45	0.47
4:2B:12:LEU:HB3	4:2B:17:ILE:CG1	2.45	0.47
4:2B:29:TYR:CE2	4:2B:60:PHE:HD2	2.31	0.47
4:2B:143:LEU:HB3	4:2B:144:ASN:H	1.60	0.47
4:2C:29:TYR:CE2	4:2C:60:PHE:HD2	2.31	0.47
6:4B:161:LYS:HE2	6:4B:164:ARG:HH22	1.80	0.47
6:4C:161:LYS:HE2	6:4C:164:ARG:HH22	1.80	0.47
6:4C:244:GLU:HG2	6:4C:284:LEU:CD2	2.45	0.47
6:4D:97:GLN:HA	6:4D:98:PRO:HD3	1.58	0.47
6:4D:110:LYS:CE	6:4D:113:ILE:HD11	2.44	0.47
6:4D:132:LYS:CE	6:4D:132:LYS:CA	2.84	0.47
6:4D:244:GLU:HG2	6:4D:284:LEU:CD2	2.44	0.47
6:4D:251:TYR:CZ	6:4D:280:VAL:HG12	2.50	0.47
7:5A:1342:GLU:OE2	7:5A:1342:GLU:HA	2.15	0.47
7:5A:1370:LYS:HD3	7:5A:1373:PHE:CZ	2.49	0.47
7:5B:826:LEU:O	7:5B:840:GLY:O	2.33	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1366:TRP:CE3	7:5B:1366:TRP:HA	2.50	0.47
7:5B:1440:GLU:OE1	7:5B:1440:GLU:HA	2.15	0.47
10:8E:33:UNK:C	10:8E:35:UNK:N	2.76	0.47
10:8L:33:UNK:C	10:8L:35:UNK:N	2.76	0.47
1:AA:2:ARG:HD2	1:AA:242:LEU:O	2.15	0.47
1:AE:2:ARG:HD2	1:AE:242:LEU:O	2.15	0.47
2:BD:91:VAL:HG21	2:BD:116:VAL:HB	1.97	0.47
1:CA:2:ARG:HD2	1:CA:242:LEU:O	2.15	0.47
1:CC:258:ASN:ND2	1:CC:352:LYS:HD3	2.30	0.47
1:CE:2:ARG:HD2	1:CE:242:LEU:O	2.15	0.47
1:DA:2:ARG:HD2	1:DA:242:LEU:O	2.15	0.47
1:DA:181:VAL:HG21	2:DB:256:ASN:O	2.15	0.47
2:DD:208:TYR:CD2	1:DE:326:LYS:HB3	2.50	0.47
1:DE:2:ARG:HD2	1:DE:242:LEU:O	2.15	0.47
2:EB:133:PHE:HB2	2:EB:164:MET:SD	2.54	0.47
1:EC:258:ASN:ND2	1:EC:352:LYS:HD3	2.30	0.47
2:ED:133:PHE:HB2	2:ED:164:MET:SD	2.54	0.47
2:ED:390:ARG:CD	1:EE:439:THR:HG21	2.45	0.47
1:EE:147:SER:HB2	1:EE:190:SER:HB3	1.97	0.47
1:EE:188:ILE:HD12	1:EE:425:LEU:CD1	2.45	0.47
1:FA:88:HIS:NE2	1:GA:284:GLU:OE1	2.47	0.47
1:FE:147:SER:HB2	1:FE:190:SER:HB3	1.97	0.47
2:FF:257:LEU:HA	2:FF:312:THR:HG21	1.96	0.47
2:GB:177:ASP:C	1:GC:352:LYS:HA	2.39	0.47
1:HA:188:ILE:HD12	1:HA:425:LEU:CD1	2.45	0.47
1:HA:258:ASN:ND2	1:HA:352:LYS:HD3	2.30	0.47
2:HB:25:SER:HG	2:HB:51:TYR:HH	1.56	0.47
1:HC:147:SER:HB2	1:HC:190:SER:HB3	1.97	0.47
1:HE:179:THR:O	2:HF:350:LYS:HA	2.15	0.47
1:HE:258:ASN:ND2	1:HE:352:LYS:HD3	2.30	0.47
2:HF:100:ASN:HD22	2:HF:103:LYS:HB2	1.79	0.47
1:IA:402:ARG:CZ	7:5C:1417:GLN:CA	2.93	0.47
2:IB:11:GLN:O	2:IB:15:GLN:HG2	2.15	0.47
2:IB:91:VAL:HG21	2:IB:116:VAL:HB	1.96	0.47
2:IB:226:ASN:ND2	13:IB:501:GDP:HN1	2.12	0.47
1:JA:147:SER:HB2	1:JA:190:SER:HB3	1.97	0.47
2:JB:91:VAL:HG21	2:JB:116:VAL:HB	1.97	0.47
1:JE:147:SER:HB2	1:JE:190:SER:HB3	1.97	0.47
2:KB:87:PRO:HD2	2:LB:282:ARG:HG2	1.97	0.47
2:KD:100:ASN:HD22	2:KD:103:LYS:HB2	1.79	0.47
2:KD:221:THR:HB	6:4B:261:SER:HA	1.38	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:248:SER:HA	2:KF:252:LYS:HE2	1.97	0.47
2:LB:91:VAL:HG21	2:LB:116:VAL:HB	1.96	0.47
2:LB:100:ASN:HD22	2:LB:103:LYS:HB2	1.79	0.47
1:LC:147:SER:HB2	1:LC:190:SER:HB3	1.97	0.47
1:LE:241:SER:OG	1:LE:250:VAL:O	2.23	0.47
2:LF:11:GLN:O	2:LF:15:GLN:HG2	2.15	0.47
1:ME:2:ARG:HD2	1:ME:242:LEU:O	2.15	0.47
6:4A:161:LYS:HE2	6:4A:164:ARG:HH22	1.80	0.47
6:4A:244:GLU:HG2	6:4A:284:LEU:CD2	2.45	0.47
6:4B:251:TYR:CZ	6:4B:280:VAL:HG12	2.50	0.47
6:4C:239:LEU:C	6:4C:241:LYS:N	2.71	0.47
6:4C:241:LYS:HD3	6:4C:241:LYS:O	2.15	0.47
7:5A:826:LEU:O	7:5A:840:GLY:O	2.33	0.47
7:5A:1399:LYS:NZ	7:5A:1399:LYS:C	2.73	0.47
7:5B:1120:ASP:CG	7:5B:1125:LEU:H	2.22	0.47
7:5B:1399:LYS:NZ	7:5B:1399:LYS:C	2.73	0.47
7:5B:1424:GLN:NE2	7:5B:1424:GLN:HA	2.29	0.47
7:5C:806:GLN:C	7:5C:806:GLN:HE21	2.23	0.47
7:5C:826:LEU:O	7:5C:840:GLY:O	2.33	0.47
7:5C:1370:LYS:HD3	7:5C:1373:PHE:CZ	2.49	0.47
8:6A:46:ILE:HG21	8:6A:149:ILE:HG23	1.96	0.47
9:7E:42:LEU:HD12	9:7F:39:GLY:HA3	1.95	0.47
10:8P:33:UNK:C	10:8P:35:UNK:N	2.76	0.47
10:8Q:33:UNK:C	10:8Q:35:UNK:N	2.76	0.47
2:BD:212:PHE:HE2	1:BE:326:LYS:HB2	1.80	0.46
1:CA:147:SER:HB2	1:CA:190:SER:HB3	1.97	0.46
1:CC:147:SER:HB2	1:CC:190:SER:HB3	1.97	0.46
2:DD:391:ARG:HG3	1:DE:346:TRP:CD1	2.50	0.46
2:DF:11:GLN:O	2:DF:15:GLN:HG2	2.15	0.46
1:EA:188:ILE:HD12	1:EA:425:LEU:CD1	2.45	0.46
2:EB:11:GLN:O	2:EB:15:GLN:HG2	2.15	0.46
2:EB:100:ASN:HD22	2:EB:103:LYS:HB2	1.79	0.46
1:EC:2:ARG:HD2	1:EC:242:LEU:O	2.15	0.46
1:EC:147:SER:HB2	1:EC:190:SER:HB3	1.97	0.46
1:EC:188:ILE:HD12	1:EC:425:LEU:CD1	2.45	0.46
2:ED:100:ASN:HD22	2:ED:103:LYS:HB2	1.79	0.46
1:EE:2:ARG:HD2	1:EE:242:LEU:O	2.15	0.46
2:EF:248:SER:HA	2:EF:252:LYS:HE2	1.97	0.46
2:FB:402:GLY:O	7:5C:1296:GLU:OE2	2.33	0.46
2:FD:100:ASN:HD22	2:FD:103:LYS:HB2	1.79	0.46
1:GA:60:LYS:NZ	1:HA:283:HIS:CE1	2.82	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HA:241:SER:OG	1:HA:250:VAL:O	2.23	0.46
2:HD:100:ASN:HD22	2:HD:103:LYS:HB2	1.79	0.46
2:HD:212:PHE:HZ	1:HE:326:LYS:CE	2.19	0.46
2:HD:257:LEU:HA	2:HD:312:THR:HG21	1.96	0.46
1:HE:188:ILE:HD12	1:HE:425:LEU:CD1	2.45	0.46
1:HE:196:GLU:HG3	5:3A:211:GLN:NE2	2.30	0.46
1:IC:2:ARG:HD2	1:IC:242:LEU:O	2.15	0.46
1:IE:2:ARG:HD2	1:IE:242:LEU:O	2.15	0.46
1:JC:147:SER:HB2	1:JC:190:SER:HB3	1.97	0.46
2:JD:91:VAL:HG21	2:JD:116:VAL:HB	1.97	0.46
1:KA:2:ARG:HD2	1:KA:242:LEU:O	2.15	0.46
1:KA:147:SER:HB2	1:KA:190:SER:HB3	1.97	0.46
2:KB:273:LEU:HB3	6:4A:268:LEU:HG	1.97	0.46
2:KB:339:SER:HB2	7:5C:1504:ARG:NH1	2.30	0.46
1:KC:147:SER:HB2	1:KC:190:SER:HB3	1.97	0.46
2:LB:177:ASP:C	1:LC:352:LYS:HA	2.41	0.46
1:LE:2:ARG:HD2	1:LE:242:LEU:O	2.15	0.46
1:MA:222:PRO:HG2	2:MB:324:LYS:HD3	1.92	0.46
2:MB:220:PRO:O	1:MC:324:VAL:HG13	2.13	0.46
1:MC:2:ARG:HD2	1:MC:242:LEU:O	2.15	0.46
2:MD:100:ASN:HD22	2:MD:103:LYS:HB2	1.79	0.46
1:ME:401:LYS:CE	2:MF:344:TRP:CZ3	2.71	0.46
4:2A:29:TYR:CE2	4:2A:60:PHE:HD2	2.31	0.46
4:2C:12:LEU:HB3	4:2C:17:ILE:CG1	2.45	0.46
6:4A:251:TYR:CZ	6:4A:280:VAL:HG12	2.50	0.46
6:4B:110:LYS:CE	6:4B:113:ILE:HD11	2.44	0.46
6:4B:113:ILE:HB	6:4B:117:ARG:HH21	1.79	0.46
6:4B:244:GLU:HG2	6:4B:284:LEU:CD2	2.44	0.46
6:4D:164:ARG:CB	6:4D:164:ARG:CZ	2.92	0.46
7:5A:1120:ASP:CG	7:5A:1125:LEU:H	2.22	0.46
7:5A:1366:TRP:CE3	7:5A:1366:TRP:HA	2.50	0.46
7:5B:1342:GLU:HA	7:5B:1342:GLU:OE2	2.15	0.46
7:5C:1366:TRP:CE3	7:5C:1366:TRP:HA	2.50	0.46
7:5C:1413:GLN:OE1	7:5C:1413:GLN:HA	2.15	0.46
1:BC:188:ILE:HD12	1:BC:425:LEU:CD1	2.45	0.46
2:BD:372:THR:HA	2:BD:422:TYR:CE2	2.48	0.46
1:BE:60:LYS:HZ2	1:CE:283:HIS:CD2	2.34	0.46
1:BE:188:ILE:HD12	1:BE:425:LEU:CD1	2.45	0.46
1:CA:258:ASN:ND2	1:CA:352:LYS:HD3	2.30	0.46
1:CE:147:SER:HB2	1:CE:190:SER:HB3	1.97	0.46
1:CE:221:ARG:NH1	2:CF:324:LYS:N	2.63	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DD:11:GLN:O	2:DD:15:GLN:HG2	2.15	0.46
2:DD:179:VAL:HG22	1:DE:258:ASN:CB	2.44	0.46
1:EC:426:ALA:HB1	7:5A:833:PHE:HB2	1.93	0.46
2:ED:11:GLN:O	2:ED:15:GLN:HG2	2.15	0.46
1:EE:179:THR:O	2:EF:350:LYS:HA	2.15	0.46
1:EE:258:ASN:ND2	1:EE:352:LYS:HD3	2.30	0.46
2:EF:11:GLN:O	2:EF:15:GLN:HG2	2.15	0.46
2:EF:91:VAL:HG21	2:EF:116:VAL:HB	1.96	0.46
2:EF:100:ASN:HD22	2:EF:103:LYS:HB2	1.79	0.46
1:FA:2:ARG:HD2	1:FA:242:LEU:O	2.15	0.46
1:FA:258:ASN:ND2	1:FA:352:LYS:HD3	2.30	0.46
2:FD:257:LEU:HA	2:FD:312:THR:HG21	1.96	0.46
1:FE:2:ARG:HD2	1:FE:242:LEU:O	2.15	0.46
1:FE:419:SER:CB	7:5B:1256:ARG:HG2	2.34	0.46
2:FF:11:GLN:O	2:FF:15:GLN:HG2	2.15	0.46
1:GE:222:PRO:HG3	2:GF:324:LYS:HD3	1.95	0.46
1:IA:188:ILE:HD12	1:IA:425:LEU:CD1	2.45	0.46
1:IA:409:VAL:HG21	7:5C:1421:PHE:HZ	1.80	0.46
2:ID:91:VAL:HG21	2:ID:116:VAL:HB	1.96	0.46
2:JB:257:LEU:HA	2:JB:312:THR:HG21	1.96	0.46
2:JF:91:VAL:HG21	2:JF:116:VAL:HB	1.96	0.46
1:KA:188:ILE:HD12	1:KA:425:LEU:CD1	2.45	0.46
1:KC:2:ARG:HD2	1:KC:242:LEU:O	2.15	0.46
1:KE:147:SER:HB2	1:KE:190:SER:HB3	1.97	0.46
2:KF:79:GLY:HA2	6:4D:254:ALA:HB1	1.96	0.46
2:KF:124:ALA:O	4:2B:38:VAL:HG13	2.15	0.46
2:KF:127:CYS:HB2	4:2B:38:VAL:HG21	1.42	0.46
1:LA:221:ARG:HH11	2:LB:325:GLU:H	1.63	0.46
2:LB:18:ALA:CB	6:4A:217:ASN:ND2	2.71	0.46
2:LB:257:LEU:HA	2:LB:312:THR:HG21	1.96	0.46
2:LD:223:GLY:CA	6:4B:219:ASN:HD22	2.28	0.46
2:MD:257:LEU:HA	2:MD:312:THR:HG21	1.96	0.46
1:ME:258:ASN:ND2	1:ME:352:LYS:HD3	2.30	0.46
2:MF:226:ASN:ND2	13:MF:502:GDP:HN1	2.12	0.46
2:MF:257:LEU:HA	2:MF:312:THR:HG21	1.96	0.46
6:4A:110:LYS:CE	6:4A:113:ILE:HD11	2.44	0.46
7:5A:848:SER:C	7:5A:850:GLU:N	2.73	0.46
7:5A:1413:GLN:HA	7:5A:1413:GLN:OE1	2.15	0.46
7:5B:773:ARG:C	7:5B:773:ARG:NE	2.73	0.46
7:5B:1404:LYS:HE3	7:5B:1404:LYS:HB3	1.49	0.46
7:5B:1413:GLN:OE1	7:5B:1413:GLN:HA	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1515:GLU:OE1	7:5B:1563:SER:CA	2.62	0.46
7:5C:773:ARG:C	7:5C:773:ARG:NE	2.73	0.46
7:5C:1105:TYR:CD1	7:5C:1165:PRO:CA	2.81	0.46
7:5C:1399:LYS:NZ	7:5C:1399:LYS:C	2.73	0.46
7:5C:1515:GLU:OE1	7:5C:1563:SER:CA	2.62	0.46
10:8Y:33:UNK:C	10:8Y:35:UNK:N	2.76	0.46
10:8Z:33:UNK:C	10:8Z:35:UNK:N	2.76	0.46
2:AB:248:SER:HA	2:AB:252:LYS:HE2	1.97	0.46
1:BA:188:ILE:HD12	1:BA:425:LEU:CD1	2.45	0.46
2:BB:177:ASP:CA	1:BC:353:VAL:HG12	2.45	0.46
1:BC:60:LYS:HD3	1:CC:283:HIS:CD2	2.50	0.46
1:BE:2:ARG:HD2	1:BE:242:LEU:O	2.15	0.46
1:CC:188:ILE:HD12	1:CC:425:LEU:CD1	2.45	0.46
1:CE:179:THR:O	2:CF:350:LYS:HA	2.14	0.46
2:DB:11:GLN:O	2:DB:15:GLN:HG2	2.15	0.46
2:DB:87:PRO:HD2	2:EB:281:TYR:CD2	2.50	0.46
1:DE:221:ARG:NH1	2:DF:324:LYS:N	2.63	0.46
2:DF:86:ARG:NH2	2:EF:281:TYR:CE2	1.78	0.46
2:DF:248:SER:HA	2:DF:252:LYS:HE2	1.97	0.46
1:EA:147:SER:HB2	1:EA:190:SER:HB3	1.97	0.46
2:EB:179:VAL:CG2	1:EC:258:ASN:O	2.42	0.46
2:ED:91:VAL:HG21	2:ED:116:VAL:HB	1.96	0.46
1:FA:56:THR:HG1	1:GA:284:GLU:C	2.15	0.46
1:FC:2:ARG:HD2	1:FC:242:LEU:O	2.15	0.46
1:FC:147:SER:HB2	1:FC:190:SER:HB3	1.97	0.46
2:FD:11:GLN:O	2:FD:15:GLN:HG2	2.15	0.46
1:GE:241:SER:OG	1:GE:250:VAL:O	2.23	0.46
2:GF:406:MET:HE3	7:5B:1341:LYS:HE3	1.98	0.46
1:HC:60:LYS:HD3	1:IC:283:HIS:CD2	2.50	0.46
1:IA:2:ARG:HD2	1:IA:242:LEU:O	2.15	0.46
1:IE:258:ASN:ND2	1:IE:352:LYS:HD3	2.30	0.46
1:JA:2:ARG:HD2	1:JA:242:LEU:O	2.15	0.46
1:JE:258:ASN:ND2	1:JE:352:LYS:HD3	2.30	0.46
1:KC:188:ILE:HD12	1:KC:425:LEU:CD1	2.45	0.46
2:KD:88:ASP:OD2	4:2A:150:GLN:NE2	2.38	0.46
2:KD:248:SER:HA	2:KD:252:LYS:HE2	1.97	0.46
1:KE:2:ARG:HD2	1:KE:242:LEU:O	2.15	0.46
1:KE:188:ILE:HD12	1:KE:425:LEU:CD1	2.45	0.46
1:LA:222:PRO:HD2	2:LB:324:LYS:CG	2.45	0.46
2:LB:177:ASP:CA	1:LC:353:VAL:HG12	2.45	0.46
1:LC:2:ARG:HD2	1:LC:242:LEU:O	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LD:223:GLY:HA3	6:4B:219:ASN:CA	2.43	0.46
2:LF:223:GLY:CA	6:4D:219:ASN:ND2	2.79	0.46
2:LF:379:LYS:CE	4:2B:166:ILE:HG13	2.39	0.46
1:MA:372:MET:CE	6:4C:96:VAL:CB	2.93	0.46
2:MB:100:ASN:HD22	2:MB:103:LYS:HB2	1.79	0.46
2:MD:111:GLU:CA	3:1B:62:SER:HA	2.45	0.46
4:2B:164:ARG:NE	4:2B:164:ARG:CA	2.73	0.46
6:4A:164:ARG:CB	6:4A:164:ARG:CZ	2.92	0.46
6:4A:241:LYS:HD3	6:4A:241:LYS:O	2.15	0.46
6:4B:164:ARG:CB	6:4B:164:ARG:CZ	2.92	0.46
6:4B:266:ASN:HD22	6:4B:273:ARG:HH11	1.63	0.46
6:4C:251:TYR:CZ	6:4C:280:VAL:HG12	2.50	0.46
6:4D:113:ILE:HB	6:4D:117:ARG:HH21	1.79	0.46
6:4D:241:LYS:HD3	6:4D:241:LYS:O	2.15	0.46
6:4D:266:ASN:HD22	6:4D:273:ARG:HH11	1.63	0.46
7:5A:872:GLU:CD	8:6A:90:ARG:NH1	2.74	0.46
7:5A:1407:GLN:C	7:5A:1407:GLN:CD	2.83	0.46
7:5B:835:GLN:HE21	7:5B:835:GLN:HA	1.80	0.46
7:5B:866:TYR:CD1	7:5B:958:GLU:HG3	2.50	0.46
7:5B:1407:GLN:C	7:5B:1407:GLN:CD	2.83	0.46
7:5C:912:VAL:CG1	7:5C:918:ILE:HG13	2.45	0.46
7:5C:1120:ASP:CG	7:5C:1125:LEU:H	2.22	0.46
7:5C:1407:GLN:C	7:5C:1407:GLN:CD	2.83	0.46
7:5C:1490:LYS:HD3	7:5C:1490:LYS:HA	1.40	0.46
10:8A:33:UNK:C	10:8A:35:UNK:N	2.76	0.46
10:8M:33:UNK:C	10:8M:35:UNK:N	2.76	0.46
1:AA:258:ASN:ND2	1:AA:352:LYS:HD3	2.30	0.46
1:AC:71:GLU:CD	2:AD:247:ASN:ND2	2.74	0.46
2:BB:372:THR:HA	2:BB:422:TYR:CE2	2.48	0.46
2:CB:91:VAL:HG21	2:CB:116:VAL:HB	1.96	0.46
1:DC:188:ILE:HD12	1:DC:425:LEU:CD1	2.45	0.46
1:DC:401:LYS:HE3	1:DC:401:LYS:HB2	1.74	0.46
2:DD:248:SER:HA	2:DD:252:LYS:HE2	1.97	0.46
1:EE:396:ASP:C	7:5B:817:LEU:HD11	2.40	0.46
1:FA:176:GLN:NE2	7:5C:915:PHE:HA	2.30	0.46
2:FB:100:ASN:HD22	2:FB:103:LYS:HB2	1.79	0.46
2:FB:220:PRO:CD	1:FC:326:LYS:HE2	2.37	0.46
2:FB:257:LEU:HA	2:FB:312:THR:HG21	1.96	0.46
1:GA:241:SER:OG	1:GA:250:VAL:O	2.23	0.46
1:GE:401:LYS:HE3	1:GE:401:LYS:HB2	1.74	0.46
2:HB:100:ASN:HD22	2:HB:103:LYS:HB2	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HB:257:LEU:HA	2:HB:312:THR:HG21	1.96	0.46
1:HE:222:PRO:HG3	2:HF:324:LYS:HD3	1.95	0.46
1:IA:147:SER:HB2	1:IA:190:SER:HB3	1.97	0.46
2:IB:424:GLN:HE21	7:5C:1413:GLN:CD	1.86	0.46
1:IC:188:ILE:HD12	1:IC:425:LEU:CD1	2.45	0.46
1:IC:258:ASN:ND2	1:IC:352:LYS:HD3	2.30	0.46
1:IC:434:GLU:HG3	5:3C:61:SER:HA	1.97	0.46
2:IF:91:VAL:HG21	2:IF:116:VAL:HB	1.96	0.46
2:IF:100:ASN:HD22	2:IF:103:LYS:HB2	1.79	0.46
1:JC:2:ARG:HD2	1:JC:242:LEU:O	2.15	0.46
2:KB:118:ASP:OD1	4:2C:148:ASN:CG	2.54	0.46
2:KF:100:ASN:HD22	2:KF:103:LYS:HB2	1.79	0.46
2:KF:159:TYR:HE2	4:2B:35:VAL:O	1.94	0.46
1:LA:2:ARG:HD2	1:LA:242:LEU:O	2.15	0.46
1:LA:241:SER:OG	1:LA:250:VAL:O	2.23	0.46
1:LC:245:ASP:CG	6:4A:216:ARG:NE	2.62	0.46
2:LD:91:VAL:HG21	2:LD:116:VAL:HB	1.96	0.46
2:MB:177:ASP:C	1:MC:352:LYS:HA	2.40	0.46
4:2B:33:GLN:HG2	4:2B:56:CYS:SG	2.56	0.46
4:2C:33:GLN:HG2	4:2C:56:CYS:SG	2.56	0.46
6:4C:164:ARG:CB	6:4C:164:ARG:CZ	2.92	0.46
6:4C:265:TYR:CD2	6:4C:265:TYR:C	2.94	0.46
7:5A:866:TYR:CD1	7:5A:958:GLU:HG3	2.50	0.46
7:5A:1515:GLU:OE1	7:5A:1563:SER:CA	2.62	0.46
7:5B:847:GLY:HA3	8:6B:17:LYS:NZ	2.30	0.46
7:5B:848:SER:C	7:5B:850:GLU:N	2.73	0.46
8:6C:84:LEU:HG	8:6C:88:VAL:HG23	1.98	0.46
9:7E:39:GLY:HA3	9:7F:43:LEU:HD21	1.97	0.46
10:8B:33:UNK:C	10:8B:35:UNK:N	2.76	0.46
10:8G:33:UNK:C	10:8G:35:UNK:N	2.76	0.46
1:AE:258:ASN:ND2	1:AE:352:LYS:HD3	2.30	0.46
1:BA:258:ASN:ND2	1:BA:352:LYS:HD3	2.30	0.46
2:BB:179:VAL:HG23	1:BC:258:ASN:HA	1.96	0.46
2:BD:98:GLY:CA	1:BE:254:GLU:CG	2.54	0.46
1:CA:188:ILE:HD12	1:CA:425:LEU:CD1	2.45	0.46
2:CB:179:VAL:HG22	1:CC:258:ASN:CG	2.40	0.46
2:CD:11:GLN:O	2:CD:15:GLN:HG2	2.15	0.46
2:DD:179:VAL:HG22	1:DE:258:ASN:CA	2.46	0.46
1:DE:188:ILE:HD12	1:DE:425:LEU:CD1	2.45	0.46
2:DF:287:PRO:HA	2:DF:290:THR:HG22	1.98	0.46
1:EA:2:ARG:HD2	1:EA:242:LEU:O	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:91:VAL:HG21	2:EB:116:VAL:HB	1.96	0.46
2:EB:98:GLY:CA	1:EC:254:GLU:CG	2.49	0.46
2:EF:125:GLU:CG	7:5B:903:PHE:HD2	2.15	0.46
1:FA:147:SER:HB2	1:FA:190:SER:HB3	1.97	0.46
2:FB:178:THR:HA	1:FC:352:LYS:HD3	1.96	0.46
1:FC:177:VAL:N	7:5A:915:PHE:CZ	2.83	0.46
2:GD:179:VAL:HG23	1:GE:258:ASN:HA	1.97	0.46
1:GE:179:THR:O	2:GF:350:LYS:HA	2.15	0.46
2:HD:25:SER:HG	2:HD:51:TYR:HH	1.57	0.46
1:IA:241:SER:OG	1:IA:250:VAL:O	2.23	0.46
2:IB:100:ASN:HD22	2:IB:103:LYS:HB2	1.79	0.46
1:IC:389:SER:CB	5:3C:307:LYS:CD	2.54	0.46
1:IC:389:SER:O	5:3C:308:PHE:CE2	2.69	0.46
1:IE:179:THR:O	2:IF:350:LYS:HA	2.15	0.46
1:IE:188:ILE:HD12	1:IE:425:LEU:CD1	2.45	0.46
2:IF:257:LEU:HA	2:IF:312:THR:HG21	1.96	0.46
1:JE:176:GLN:O	2:JF:347:ASN:ND2	2.40	0.46
2:JF:100:ASN:HD22	2:JF:103:LYS:HB2	1.79	0.46
2:JF:257:LEU:HA	2:JF:312:THR:HG21	1.95	0.46
1:LC:241:SER:OG	1:LC:250:VAL:O	2.23	0.46
2:LF:224:ASP:CA	6:4D:219:ASN:HD21	2.24	0.46
2:LF:248:SER:HA	2:LF:252:LYS:HE2	1.97	0.46
1:MA:2:ARG:HD2	1:MA:242:LEU:O	2.15	0.46
1:MA:11:GLN:HE22	2:MB:246:LEU:HA	1.81	0.46
1:MA:224:TYR:CE2	2:MB:246:LEU:HD11	2.42	0.46
1:MC:258:ASN:ND2	1:MC:352:LYS:HD3	2.30	0.46
2:MD:176:SER:HG	1:ME:349:THR:HG1	1.58	0.46
4:2A:18:ARG:HH12	4:2A:122:GLU:CD	2.23	0.46
4:2A:33:GLN:HG2	4:2A:56:CYS:SG	2.56	0.46
4:2B:12:LEU:HD12	4:2B:13:THR:H	1.80	0.46
4:2C:18:ARG:HH12	4:2C:122:GLU:CD	2.23	0.46
6:4A:265:TYR:CD2	6:4A:265:TYR:C	2.94	0.46
6:4A:266:ASN:HD22	6:4A:273:ARG:HH11	1.63	0.46
6:4B:241:LYS:HD3	6:4B:241:LYS:HA	1.52	0.46
6:4C:110:LYS:CE	6:4C:113:ILE:HD11	2.44	0.46
7:5A:773:ARG:C	7:5A:773:ARG:NE	2.73	0.46
7:5A:1105:TYR:CD1	7:5A:1165:PRO:CA	2.81	0.46
7:5A:1271:ILE:HA	9:7A:20:LEU:CD2	2.13	0.46
7:5B:1105:TYR:CD1	7:5B:1165:PRO:CA	2.81	0.46
7:5B:1443:LYS:C	7:5B:1443:LYS:CD	2.85	0.46
7:5C:866:TYR:CD1	7:5C:958:GLU:HG3	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:874:GLN:HB3	8:6C:59:LYS:HZ3	1.79	0.46
7:5C:1404:LYS:HZ1	7:5C:1408:GLU:HB2	1.78	0.46
7:5C:1521:PHE:CE2	7:5C:1567:PHE:CE1	2.96	0.46
10:8H:33:UNK:C	10:8H:35:UNK:N	2.76	0.46
10:8N:33:UNK:C	10:8N:35:UNK:N	2.76	0.46
10:8O:33:UNK:C	10:8O:35:UNK:N	2.76	0.46
1:AA:147:SER:HB2	1:AA:190:SER:HB3	1.97	0.46
1:AC:147:SER:HB2	1:AC:190:SER:HB3	1.97	0.46
1:AC:181:VAL:HG21	2:AD:256:ASN:O	2.16	0.46
1:AC:258:ASN:ND2	1:AC:352:LYS:HD3	2.30	0.46
2:AD:248:SER:HA	2:AD:252:LYS:HE2	1.97	0.46
1:AE:147:SER:HB2	1:AE:190:SER:HB3	1.97	0.46
1:BA:60:LYS:HZ2	1:CA:283:HIS:CD2	2.34	0.46
1:BA:179:THR:O	2:BB:350:LYS:HA	2.15	0.46
2:CD:91:VAL:HG21	2:CD:116:VAL:HB	1.96	0.46
1:CE:188:ILE:HD12	1:CE:425:LEU:CD1	2.45	0.46
2:CF:11:GLN:O	2:CF:15:GLN:HG2	2.15	0.46
1:DA:188:ILE:HD12	1:DA:425:LEU:CD1	2.45	0.46
2:ED:287:PRO:HA	2:ED:290:THR:HG22	1.98	0.46
2:EF:287:PRO:HA	2:EF:290:THR:HG22	1.98	0.46
2:FB:11:GLN:O	2:FB:15:GLN:HG2	2.15	0.46
2:FB:91:VAL:HG21	2:FB:116:VAL:HB	1.96	0.46
2:FB:287:PRO:HA	2:FB:290:THR:HG22	1.98	0.46
1:GA:2:ARG:HD2	1:GA:242:LEU:O	2.15	0.46
1:GA:147:SER:HB2	1:GA:190:SER:HB3	1.97	0.46
2:GB:287:PRO:HA	2:GB:290:THR:HG22	1.98	0.46
1:HC:241:SER:OG	1:HC:250:VAL:O	2.23	0.46
2:HF:55:THR:HG23	2:IF:283:ALA:HA	1.98	0.46
2:HF:248:SER:HA	2:HF:252:LYS:HE2	1.97	0.46
1:IC:71:GLU:CD	2:ID:247:ASN:ND2	2.74	0.46
1:IC:147:SER:HB2	1:IC:190:SER:HB3	1.97	0.46
2:ID:100:ASN:HD22	2:ID:103:LYS:HB2	1.79	0.46
2:ID:179:VAL:HG23	1:IE:258:ASN:HA	1.97	0.46
1:IE:222:PRO:HD2	2:IF:324:LYS:HD3	1.96	0.46
1:JC:258:ASN:ND2	1:JC:352:LYS:HD3	2.30	0.46
2:JD:100:ASN:HD22	2:JD:103:LYS:HB2	1.79	0.46
1:JE:2:ARG:HD2	1:JE:242:LEU:O	2.15	0.46
2:JF:248:SER:HA	2:JF:252:LYS:HE2	1.97	0.46
2:KB:248:SER:HA	2:KB:252:LYS:HE2	1.97	0.46
1:KC:71:GLU:CD	2:KD:247:ASN:ND2	2.74	0.46
1:KC:222:PRO:HG3	2:KD:324:LYS:HD3	1.95	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:222:PRO:HD2	2:KF:324:LYS:HD3	1.96	0.46
2:LD:379:LYS:O	4:2A:166:ILE:CD1	2.54	0.46
2:LF:91:VAL:HG21	2:LF:116:VAL:HB	1.96	0.46
2:LF:337:ASN:HD21	4:2B:148:ASN:HB2	1.81	0.46
1:MA:258:ASN:ND2	1:MA:352:LYS:HD3	2.30	0.46
2:MB:176:SER:CB	1:MC:349:THR:OG1	2.63	0.46
1:ME:279:GLU:HB2	6:4B:110:LYS:NZ	2.30	0.46
6:4A:264:GLY:O	6:4A:273:ARG:HD2	2.16	0.46
6:4B:264:GLY:O	6:4B:273:ARG:HD2	2.16	0.46
6:4B:265:TYR:CD2	6:4B:265:TYR:C	2.94	0.46
6:4C:243:ASP:HB3	6:4C:247:LYS:HD2	1.68	0.46
6:4C:266:ASN:HD22	6:4C:273:ARG:HH11	1.63	0.46
6:4D:264:GLY:O	6:4D:273:ARG:HD2	2.16	0.46
7:5A:912:VAL:CG1	7:5A:918:ILE:HG13	2.45	0.46
7:5A:1438:LEU:HD12	7:5A:1438:LEU:C	2.41	0.46
7:5A:1443:LYS:C	7:5A:1443:LYS:CD	2.85	0.46
7:5A:1452:HIS:ND1	7:5A:1452:HIS:C	2.74	0.46
7:5A:1490:LYS:HD3	7:5A:1490:LYS:HA	1.41	0.46
7:5A:1530:ILE:HD13	7:5A:1571:MET:SD	2.56	0.46
7:5B:1490:LYS:HD3	7:5B:1490:LYS:HA	1.40	0.46
7:5B:1530:ILE:HD13	7:5B:1571:MET:SD	2.56	0.46
7:5C:839:GLU:HA	8:6C:109:ILE:H	1.80	0.46
7:5C:1438:LEU:HD12	7:5C:1438:LEU:C	2.41	0.46
7:5C:1530:ILE:HD13	7:5C:1571:MET:SD	2.56	0.46
10:8D:33:UNK:C	10:8D:35:UNK:N	2.76	0.46
1:AC:60:LYS:NZ	1:BC:283:HIS:CE1	2.84	0.46
2:AD:287:PRO:HA	2:AD:290:THR:HG22	1.98	0.46
1:AE:188:ILE:HD12	1:AE:425:LEU:CD1	2.45	0.46
1:BA:224:TYR:CE2	2:BB:246:LEU:HD11	2.48	0.46
1:BC:2:ARG:HD2	1:BC:242:LEU:O	2.15	0.46
1:BE:258:ASN:ND2	1:BE:352:LYS:HD3	2.30	0.46
1:CA:282:TYR:HE2	10:8D:18:UNK:HA	1.79	0.46
1:CC:394:LYS:NZ	2:CD:347:ASN:OD1	2.49	0.46
2:CF:287:PRO:HA	2:CF:290:THR:HG22	1.98	0.46
13:EB:501:GDP:H8	1:EC:248:LEU:CD1	2.29	0.46
2:ED:179:VAL:HG22	1:EE:258:ASN:CB	2.46	0.46
1:EE:430:LYS:HZ2	7:5B:834:ASN:CB	2.26	0.46
2:FB:106:TYR:CD1	7:5C:1295:LYS:N	2.83	0.46
1:FE:188:ILE:HD12	1:FE:425:LEU:CD1	2.45	0.46
2:FF:287:PRO:HA	2:FF:290:THR:HG22	1.98	0.46
2:HB:248:SER:HA	2:HB:252:LYS:HE2	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HE:2:ARG:HD2	1:HE:242:LEU:O	2.15	0.46
1:HE:241:SER:OG	1:HE:250:VAL:O	2.23	0.46
1:HE:282:TYR:CD1	10:8U:15:UNK:CA	2.95	0.46
1:IA:401:LYS:HE3	1:IA:401:LYS:HB2	1.74	0.46
2:IB:257:LEU:HA	2:IB:312:THR:HG21	1.96	0.46
1:IC:241:SER:OG	1:IC:250:VAL:O	2.23	0.46
2:LB:248:SER:HA	2:LB:252:LYS:HE2	1.97	0.46
1:LE:222:PRO:HD2	2:LF:324:LYS:CG	2.46	0.46
2:LF:25:SER:HG	2:LF:51:TYR:HH	1.57	0.46
2:MB:178:THR:HA	1:MC:352:LYS:HD3	1.97	0.46
2:MD:226:ASN:ND2	13:MD:502:GDP:HN1	2.12	0.46
2:MF:287:PRO:HA	2:MF:290:THR:HG22	1.98	0.46
4:2A:12:LEU:HD12	4:2A:13:THR:H	1.80	0.46
4:2B:18:ARG:HH12	4:2B:122:GLU:CD	2.23	0.46
5:3C:165:LEU:HD23	5:3C:198:MET:HE3	1.97	0.46
6:4A:243:ASP:HB3	6:4A:247:LYS:HD2	1.68	0.46
6:4B:241:LYS:HD3	6:4B:241:LYS:O	2.15	0.46
6:4C:248:VAL:HG13	6:4C:288:TYR:HD2	1.80	0.46
6:4C:264:GLY:O	6:4C:273:ARG:HD2	2.16	0.46
7:5B:912:VAL:CG1	7:5B:918:ILE:HG13	2.45	0.46
7:5B:1030:PHE:CZ	7:5B:1034:ILE:HD11	2.50	0.46
7:5B:1438:LEU:HD12	7:5B:1438:LEU:C	2.41	0.46
7:5B:1452:HIS:ND1	7:5B:1452:HIS:C	2.74	0.46
7:5C:1452:HIS:ND1	7:5C:1452:HIS:C	2.74	0.46
8:6A:84:LEU:HG	8:6A:88:VAL:HG23	1.98	0.46
9:7A:11:TYR:CD1	9:7B:23:LEU:HD23	2.51	0.46
9:7C:11:TYR:CD1	9:7D:23:LEU:HD23	2.51	0.46
2:AB:100:ASN:HD22	2:AB:103:LYS:HB2	1.79	0.46
1:AC:188:ILE:HD12	1:AC:425:LEU:CD1	2.45	0.46
2:AF:248:SER:HA	2:AF:252:LYS:HE2	1.97	0.46
1:BA:404:PHE:CE2	2:BB:345:ILE:HD11	2.51	0.46
2:BD:287:PRO:HA	2:BD:290:THR:HG22	1.98	0.46
2:BF:287:PRO:HA	2:BF:290:THR:HG22	1.98	0.46
2:CD:176:SER:HG	1:CE:349:THR:HG1	1.48	0.46
2:CD:287:PRO:HA	2:CD:290:THR:HG22	1.98	0.46
2:DB:248:SER:HA	2:DB:252:LYS:HE2	1.97	0.46
2:DB:287:PRO:HA	2:DB:290:THR:HG22	1.98	0.46
1:DE:404:PHE:CE2	2:DF:345:ILE:HD11	2.51	0.46
2:DF:84:LEU:O	2:EF:281:TYR:OH	2.34	0.46
2:EB:287:PRO:HA	2:EB:290:THR:HG22	1.98	0.46
2:ED:222:TYR:HD2	1:EE:247:ALA:HB1	1.79	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FC:188:ILE:HD12	1:FC:425:LEU:CD1	2.45	0.46
1:FE:181:VAL:HG12	2:FF:348:ASN:HA	1.96	0.46
1:FE:401:LYS:HE3	2:FF:344:TRP:CZ3	2.51	0.46
1:GC:181:VAL:HG21	2:GD:256:ASN:O	2.16	0.46
2:GD:287:PRO:HA	2:GD:290:THR:HG22	1.98	0.46
1:GE:224:TYR:CE2	2:GF:246:LEU:HD11	2.46	0.46
2:GF:287:PRO:HA	2:GF:290:THR:HG22	1.98	0.46
1:HA:2:ARG:HD2	1:HA:242:LEU:O	2.15	0.46
2:HB:91:VAL:HG21	2:HB:116:VAL:HB	1.96	0.46
2:HB:287:PRO:HA	2:HB:290:THR:HG22	1.98	0.46
2:HD:248:SER:HA	2:HD:252:LYS:HE2	1.97	0.46
1:IA:258:ASN:ND2	1:IA:352:LYS:HD3	2.30	0.46
2:JD:248:SER:HA	2:JD:252:LYS:HE2	1.97	0.46
2:JD:287:PRO:HA	2:JD:290:THR:HG22	1.98	0.46
2:KD:287:PRO:HA	2:KD:290:THR:HG22	1.98	0.46
2:LB:331:LEU:HD23	4:2C:42:PHE:CE2	2.14	0.46
2:LB:331:LEU:CD1	4:2C:42:PHE:CZ	2.92	0.46
4:2C:12:LEU:HD12	4:2C:13:THR:H	1.80	0.46
7:5A:1105:TYR:CD1	7:5A:1105:TYR:N	2.83	0.46
7:5A:1443:LYS:HE3	7:5A:1444:LYS:HA	1.97	0.46
7:5B:1105:TYR:CD1	7:5B:1105:TYR:N	2.83	0.46
7:5B:1404:LYS:NZ	7:5B:1408:GLU:HB2	2.31	0.46
7:5C:1105:TYR:CD1	7:5C:1105:TYR:N	2.83	0.46
7:5C:1399:LYS:C	7:5C:1399:LYS:HZ2	2.23	0.46
7:5C:1491:LEU:HD13	7:5C:1491:LEU:HA	1.82	0.46
8:6B:84:LEU:HG	8:6B:88:VAL:HG23	1.98	0.46
9:7E:2:PHE:HB3	9:7E:10:TYR:CE1	2.51	0.46
10:8F:33:UNK:C	10:8F:35:UNK:N	2.76	0.46
1:AA:188:ILE:HD12	1:AA:425:LEU:CD1	2.45	0.46
2:AB:287:PRO:HA	2:AB:290:THR:HG22	1.98	0.46
2:AF:100:ASN:HD22	2:AF:103:LYS:HB2	1.79	0.46
2:AF:287:PRO:HA	2:AF:290:THR:HG22	1.98	0.46
1:BA:2:ARG:HD2	1:BA:242:LEU:O	2.15	0.46
1:BA:147:SER:HB2	1:BA:190:SER:HB3	1.97	0.46
1:BC:60:LYS:HZ2	1:CC:283:HIS:CD2	2.34	0.46
2:BD:179:VAL:HG22	1:BE:258:ASN:CG	2.41	0.46
1:CA:370:LYS:HE3	10:8D:17:UNK:CB	2.27	0.46
2:CB:11:GLN:O	2:CB:15:GLN:HG2	2.15	0.46
2:CB:287:PRO:HA	2:CB:290:THR:HG22	1.98	0.46
2:CF:91:VAL:HG21	2:CF:116:VAL:HB	1.96	0.46
2:DD:91:VAL:HG21	2:DD:116:VAL:HB	1.96	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DD:287:PRO:HA	2:DD:290:THR:HG22	1.98	0.46
2:DF:91:VAL:HG21	2:DF:116:VAL:HB	1.96	0.46
2:FD:287:PRO:HA	2:FD:290:THR:HG22	1.98	0.46
1:GC:2:ARG:HD2	1:GC:242:LEU:O	2.15	0.46
1:HA:100:ALA:HB1	2:HB:252:LYS:CA	2.46	0.46
1:HC:2:ARG:HD2	1:HC:242:LEU:O	2.15	0.46
2:HD:287:PRO:HA	2:HD:290:THR:HG22	1.98	0.46
1:HE:100:ALA:HB1	2:HF:252:LYS:CA	2.46	0.46
2:ID:257:LEU:HA	2:ID:312:THR:HG21	1.96	0.46
1:IE:147:SER:HB2	1:IE:190:SER:HB3	1.97	0.46
1:IE:222:PRO:HG3	2:IF:324:LYS:HD3	1.95	0.46
2:IF:424:GLN:NE2	7:5B:1413:GLN:NE2	0.60	0.46
1:JA:258:ASN:ND2	1:JA:352:LYS:HD3	2.30	0.46
1:JC:181:VAL:HG21	2:JD:256:ASN:O	2.16	0.46
2:JD:257:LEU:HA	2:JD:312:THR:HG21	1.96	0.46
1:JE:222:PRO:HG3	2:JF:324:LYS:HD3	1.95	0.46
1:KC:79:ARG:C	1:LC:280:LYS:HE2	2.31	0.46
1:LE:222:PRO:HG2	2:LF:324:LYS:CD	2.40	0.46
1:ME:188:ILE:HD12	1:ME:425:LEU:CD1	2.45	0.46
4:2A:164:ARG:NE	4:2A:164:ARG:CA	2.73	0.46
4:2C:164:ARG:NE	4:2C:164:ARG:CA	2.73	0.46
6:4A:108:LYS:HE2	6:4A:108:LYS:HB3	1.36	0.46
6:4A:248:VAL:HG13	6:4A:288:TYR:HD2	1.80	0.46
6:4B:108:LYS:HE2	6:4B:108:LYS:HB3	1.36	0.46
6:4D:265:TYR:C	6:4D:265:TYR:CD2	2.94	0.46
7:5A:942:LYS:HB3	7:5A:1034:ILE:HG23	1.98	0.46
7:5A:1404:LYS:NZ	7:5A:1408:GLU:HB2	2.31	0.46
7:5A:1436:ARG:C	7:5A:1436:ARG:CD	2.89	0.46
7:5B:887:TYR:HD1	7:5B:890:ILE:HD12	1.81	0.46
7:5C:942:LYS:HB3	7:5C:1034:ILE:HG23	1.98	0.46
7:5C:1436:ARG:C	7:5C:1436:ARG:CD	2.89	0.46
7:5C:1521:PHE:HZ	7:5C:1571:MET:N	2.14	0.46
8:6C:130:ASN:C	8:6C:136:LEU:HD12	2.40	0.46
1:AA:100:ALA:HB1	2:AB:252:LYS:CA	2.46	0.46
2:AD:100:ASN:HD22	2:AD:103:LYS:HB2	1.79	0.46
2:AD:372:THR:HA	2:AD:422:TYR:CE2	2.48	0.46
2:BB:287:PRO:HA	2:BB:290:THR:HG22	1.98	0.46
2:BF:105:HIS:CE1	2:BF:150:LEU:HD12	2.51	0.46
2:DB:91:VAL:HG21	2:DB:116:VAL:HB	1.96	0.46
2:EB:177:ASP:OD2	1:EC:353:VAL:HG11	2.02	0.46
2:EB:222:TYR:HD2	1:EC:247:ALA:HB1	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:188:ILE:HD12	1:FA:425:LEU:CD1	2.45	0.46
1:FC:56:THR:C	1:GC:285:GLN:CB	2.89	0.46
1:GE:2:ARG:HD2	1:GE:242:LEU:O	2.15	0.46
2:HD:91:VAL:HG21	2:HD:116:VAL:HB	1.96	0.46
2:HF:287:PRO:HA	2:HF:290:THR:HG22	1.98	0.46
2:ID:287:PRO:HA	2:ID:290:THR:HG22	1.98	0.46
2:IF:287:PRO:HA	2:IF:290:THR:HG22	1.98	0.46
2:JB:100:ASN:HD22	2:JB:103:LYS:HB2	1.80	0.46
2:JB:248:SER:HA	2:JB:252:LYS:HE2	1.97	0.46
2:JB:287:PRO:HA	2:JB:290:THR:HG22	1.98	0.46
1:KA:100:ALA:HB1	2:KB:252:LYS:CA	2.45	0.46
2:KB:217:LEU:HB2	6:4A:263:CYS:SG	2.56	0.46
2:LB:388:MET:HA	1:LC:346:TRP:O	2.16	0.46
2:LD:248:SER:HA	2:LD:252:LYS:HE2	1.97	0.46
2:LF:287:PRO:HA	2:LF:290:THR:HG22	1.98	0.46
1:MA:147:SER:HB2	1:MA:190:SER:HB3	1.97	0.46
2:MB:287:PRO:HA	2:MB:290:THR:HG22	1.98	0.46
1:MC:147:SER:HB2	1:MC:190:SER:HB3	1.97	0.46
2:MD:221:THR:CB	6:4B:189:ARG:NH1	2.79	0.46
2:MD:287:PRO:HA	2:MD:290:THR:HG22	1.98	0.46
2:MD:391:ARG:O	1:ME:262:TYR:OH	2.19	0.46
6:4A:241:LYS:C	6:4A:241:LYS:CD	2.89	0.46
6:4B:248:VAL:HG13	6:4B:288:TYR:HD2	1.80	0.46
6:4C:241:LYS:C	6:4C:241:LYS:CD	2.89	0.46
6:4D:248:VAL:HG13	6:4D:288:TYR:HD2	1.80	0.46
7:5A:887:TYR:HD1	7:5A:890:ILE:HD12	1.81	0.46
7:5B:942:LYS:HB3	7:5B:1034:ILE:HG23	1.98	0.46
7:5B:1436:ARG:C	7:5B:1436:ARG:CD	2.89	0.46
7:5C:887:TYR:HD1	7:5C:890:ILE:HD12	1.81	0.46
7:5C:1415:GLU:CD	7:5C:1415:GLU:C	2.83	0.46
7:5C:1443:LYS:HE3	7:5C:1444:LYS:HA	1.98	0.46
8:6C:81:GLU:HA	8:6C:85:GLU:OE1	2.15	0.46
10:8C:33:UNK:C	10:8C:35:UNK:N	2.76	0.46
2:BB:105:HIS:CE1	2:BB:150:LEU:HD12	2.52	0.45
2:BB:203:ASP:O	2:BB:207:LEU:HG	2.16	0.45
1:BC:258:ASN:ND2	1:BC:352:LYS:HD3	2.30	0.45
2:BD:105:HIS:CE1	2:BD:150:LEU:HD12	2.52	0.45
1:EA:402:ARG:CD	7:5C:824:ARG:HH22	2.22	0.45
2:EB:105:HIS:CE1	2:EB:150:LEU:HD12	2.52	0.45
2:EB:220:PRO:HD2	1:EC:326:LYS:CD	2.46	0.45
2:ED:105:HIS:CE1	2:ED:150:LEU:HD12	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ED:203:ASP:O	2:ED:207:LEU:HG	2.17	0.45
1:EE:32:PRO:HB3	1:EE:83:TYR:CE1	2.52	0.45
2:EF:226:ASN:ND2	13:EF:501:GDP:HN1	2.12	0.45
1:FA:176:GLN:O	2:FB:347:ASN:ND2	2.40	0.45
2:FD:91:VAL:HG21	2:FD:116:VAL:HB	1.96	0.45
2:FD:179:VAL:HG21	1:FE:258:ASN:C	2.32	0.45
1:GC:71:GLU:CD	2:GD:247:ASN:ND2	2.74	0.45
1:GC:147:SER:HB2	1:GC:190:SER:HB3	1.97	0.45
2:GD:105:HIS:CE1	2:GD:150:LEU:HD12	2.52	0.45
2:GD:212:PHE:CZ	1:GE:326:LYS:CE	2.98	0.45
2:GF:91:VAL:HG21	2:GF:116:VAL:HB	1.96	0.45
1:HC:71:GLU:CD	2:HD:247:ASN:ND2	2.74	0.45
1:HC:278:ALA:HB3	10:8T:21:UNK:C	2.42	0.45
2:HD:394:PHE:CD1	1:HE:261:PRO:HA	2.52	0.45
1:IA:71:GLU:HA	1:IA:72:PRO:HD3	1.84	0.45
2:ID:86:ARG:NH1	2:JD:281:TYR:CA	2.58	0.45
1:JA:188:ILE:HD12	1:JA:425:LEU:CD1	2.45	0.45
2:JB:203:ASP:O	2:JB:207:LEU:HG	2.16	0.45
2:JF:287:PRO:HA	2:JF:290:THR:HG22	1.98	0.45
1:KA:245:ASP:CB	6:4C:253:ARG:HE	2.27	0.45
2:KB:158:GLU:HB3	4:2C:34:ASN:HB3	0.79	0.45
2:KB:287:PRO:HA	2:KB:290:THR:HG22	1.98	0.45
1:KE:100:ALA:HB1	2:KF:252:LYS:CA	2.46	0.45
1:KE:179:THR:O	2:KF:350:LYS:HA	2.15	0.45
2:KF:287:PRO:HA	2:KF:290:THR:HG22	1.98	0.45
2:LB:287:PRO:HA	2:LB:290:THR:HG22	1.98	0.45
2:LB:390:ARG:HD3	1:LC:439:THR:HG21	1.97	0.45
1:LC:222:PRO:CG	2:LD:324:LYS:HB2	2.38	0.45
2:LD:25:SER:HG	2:LD:51:TYR:HH	1.56	0.45
2:LD:287:PRO:HA	2:LD:290:THR:HG22	1.98	0.45
1:MC:188:ILE:HD12	1:MC:425:LEU:CD1	2.45	0.45
1:ME:71:GLU:CD	2:MF:247:ASN:HD22	2.23	0.45
2:MF:105:HIS:CE1	2:MF:150:LEU:HD12	2.52	0.45
2:MF:221:THR:CB	6:4D:189:ARG:NH2	2.77	0.45
5:3A:165:LEU:HD23	5:3A:198:MET:HE3	1.97	0.45
6:4A:101:ARG:NH2	6:4A:101:ARG:CG	2.76	0.45
6:4A:241:LYS:HD3	6:4A:241:LYS:HA	1.52	0.45
6:4B:241:LYS:C	6:4B:241:LYS:CD	2.89	0.45
6:4C:167:ARG:CB	6:4C:167:ARG:NH1	2.79	0.45
6:4D:161:LYS:HA	6:4D:161:LYS:HD3	1.78	0.45
6:4D:230:TYR:OH	6:4D:240:LYS:CG	2.51	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1030:PHE:CZ	7:5A:1034:ILE:HD11	2.50	0.45
7:5A:1272:ILE:HD11	9:7B:11:TYR:CD2	2.50	0.45
7:5A:1425:LYS:CD	7:5A:1425:LYS:C	2.88	0.45
7:5A:1499:LYS:NZ	7:5A:1513:ASP:O	2.46	0.45
7:5A:1521:PHE:HZ	7:5A:1571:MET:N	2.14	0.45
7:5B:827:GLU:HA	7:5B:841:VAL:HG13	1.98	0.45
7:5B:1348:LYS:N	7:5B:1348:LYS:CD	2.73	0.45
7:5B:1425:LYS:CD	7:5B:1425:LYS:C	2.88	0.45
7:5B:1443:LYS:HE3	7:5B:1444:LYS:HA	1.98	0.45
7:5B:1499:LYS:NZ	7:5B:1513:ASP:O	2.47	0.45
7:5C:841:VAL:CG1	8:6C:9:LEU:HD23	2.46	0.45
7:5C:1407:GLN:HA	7:5C:1407:GLN:HE21	1.81	0.45
7:5C:1425:LYS:CD	7:5C:1425:LYS:C	2.88	0.45
8:6A:130:ASN:C	8:6A:136:LEU:HD12	2.40	0.45
2:AB:203:ASP:O	2:AB:207:LEU:HG	2.17	0.45
2:AD:105:HIS:CE1	2:AD:150:LEU:HD12	2.52	0.45
2:AF:105:HIS:CE1	2:AF:150:LEU:HD12	2.52	0.45
1:BC:32:PRO:HB3	1:BC:83:TYR:CE1	2.52	0.45
2:BD:220:PRO:CD	1:BE:326:LYS:HG2	2.37	0.45
1:BE:32:PRO:HB3	1:BE:83:TYR:CE1	2.52	0.45
1:CA:179:THR:O	2:CB:350:LYS:HA	2.15	0.45
1:CA:221:ARG:NH1	2:CB:324:LYS:N	2.64	0.45
2:CD:220:PRO:HD2	1:CE:326:LYS:CD	2.46	0.45
2:DB:179:VAL:HG22	1:DC:258:ASN:CB	2.46	0.45
1:EA:32:PRO:HB3	1:EA:83:TYR:CE1	2.52	0.45
1:EC:32:PRO:HB3	1:EC:83:TYR:CE1	2.52	0.45
2:ED:226:ASN:ND2	13:ED:502:GDP:HN1	2.12	0.45
2:EF:105:HIS:CE1	2:EF:150:LEU:HD12	2.52	0.45
2:EF:203:ASP:O	2:EF:207:LEU:HG	2.17	0.45
1:FA:422:ARG:CZ	7:5C:1170:THR:HA	2.38	0.45
2:FF:91:VAL:HG21	2:FF:116:VAL:HB	1.96	0.45
1:GA:32:PRO:HB3	1:GA:83:TYR:CE1	2.52	0.45
2:GB:91:VAL:HG21	2:GB:116:VAL:HB	1.96	0.45
2:GB:105:HIS:CE1	2:GB:150:LEU:HD12	2.52	0.45
1:GC:32:PRO:HB3	1:GC:83:TYR:CE1	2.52	0.45
2:GF:105:HIS:CE1	2:GF:150:LEU:HD12	2.52	0.45
2:IB:203:ASP:O	2:IB:207:LEU:HG	2.17	0.45
13:IB:501:GDP:C8	1:IC:248:LEU:CD1	2.99	0.45
1:IC:181:VAL:HG21	2:ID:256:ASN:O	2.16	0.45
13:JB:501:GDP:C8	1:JC:248:LEU:CD1	2.99	0.45
1:JC:188:ILE:HD12	1:JC:425:LEU:CD1	2.45	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JD:394:PHE:CD1	1:JE:261:PRO:HA	2.52	0.45
2:JF:87:PRO:HD2	2:KF:281:TYR:HD2	1.27	0.45
1:KA:88:HIS:HA	1:LA:284:GLU:HA	1.85	0.45
2:LB:105:HIS:CE1	2:LB:150:LEU:HD12	2.52	0.45
2:LD:105:HIS:CE1	2:LD:150:LEU:HD12	2.52	0.45
1:LE:100:ALA:O	2:LF:255:VAL:HG21	2.15	0.45
2:LF:105:HIS:CE1	2:LF:150:LEU:HD12	2.52	0.45
1:MA:32:PRO:HB3	1:MA:83:TYR:CE1	2.52	0.45
2:MB:105:HIS:CE1	2:MB:150:LEU:HD12	2.52	0.45
2:MB:226:ASN:ND2	13:MB:502:GDP:HN1	2.12	0.45
1:MC:32:PRO:HB3	1:MC:83:TYR:CE1	2.52	0.45
2:MD:105:HIS:CE1	2:MD:150:LEU:HD12	2.52	0.45
1:ME:32:PRO:HB3	1:ME:83:TYR:CE1	2.52	0.45
6:4A:167:ARG:NH1	6:4A:167:ARG:CB	2.79	0.45
6:4A:230:TYR:OH	6:4A:240:LYS:CG	2.51	0.45
6:4B:230:TYR:OH	6:4B:240:LYS:CG	2.51	0.45
7:5A:1348:LYS:N	7:5A:1348:LYS:CD	2.73	0.45
7:5A:1415:GLU:CD	7:5A:1415:GLU:C	2.83	0.45
7:5C:1404:LYS:NZ	7:5C:1408:GLU:HB2	2.31	0.45
8:6B:130:ASN:C	8:6B:136:LEU:HD12	2.40	0.45
9:7F:18:VAL:HG11	9:7F:42:LEU:HD23	1.93	0.45
1:AA:32:PRO:HB3	1:AA:83:TYR:CE1	2.52	0.45
2:AB:105:HIS:CE1	2:AB:150:LEU:HD12	2.52	0.45
2:AD:203:ASP:O	2:AD:207:LEU:HG	2.17	0.45
1:AE:32:PRO:HB3	1:AE:83:TYR:CE1	2.52	0.45
1:AE:100:ALA:HB1	2:AF:252:LYS:CA	2.46	0.45
1:AE:179:THR:O	2:AF:350:LYS:HA	2.15	0.45
1:BC:147:SER:HB2	1:BC:190:SER:HB3	1.97	0.45
2:BD:203:ASP:O	2:BD:207:LEU:HG	2.17	0.45
2:BF:226:ASN:ND2	13:BF:501:GDP:HN1	2.12	0.45
1:CA:32:PRO:HB3	1:CA:83:TYR:CE1	2.52	0.45
1:CC:32:PRO:HB3	1:CC:83:TYR:CE1	2.52	0.45
2:EB:203:ASP:O	2:EB:207:LEU:HG	2.17	0.45
1:FA:60:LYS:CG	1:GA:283:HIS:HA	2.31	0.45
2:FF:203:ASP:O	2:FF:207:LEU:HG	2.17	0.45
1:GC:222:PRO:HG3	2:GD:324:LYS:HD3	1.95	0.45
1:GE:32:PRO:HB3	1:GE:83:TYR:CE1	2.52	0.45
1:GE:147:SER:HB2	1:GE:190:SER:HB3	1.97	0.45
2:HF:91:VAL:HG21	2:HF:116:VAL:HB	1.96	0.45
2:HF:105:HIS:CE1	2:HF:150:LEU:HD12	2.52	0.45
2:IB:287:PRO:HA	2:IB:290:THR:HG22	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IE:278:ALA:HB3	10:8X:22:UNK:N	2.24	0.45
1:JC:71:GLU:CD	2:JD:247:ASN:ND2	2.74	0.45
1:JE:188:ILE:HD12	1:JE:425:LEU:CD1	2.45	0.45
1:KC:181:VAL:HG21	2:KD:256:ASN:O	2.16	0.45
2:KF:203:ASP:O	2:KF:207:LEU:HG	2.17	0.45
2:LD:413:SER:HB2	4:2A:171:VAL:HG22	1.97	0.45
1:LE:32:PRO:HB3	1:LE:83:TYR:CE1	2.52	0.45
1:LE:188:ILE:HD12	1:LE:425:LEU:CD1	2.45	0.45
1:MA:188:ILE:HD12	1:MA:425:LEU:CD1	2.45	0.45
1:MC:279:GLU:HB2	6:4A:110:LYS:NZ	2.32	0.45
5:3B:165:LEU:HD23	5:3B:198:MET:HE3	1.97	0.45
6:4B:167:ARG:NH1	6:4B:167:ARG:CB	2.79	0.45
6:4C:101:ARG:NH2	6:4C:101:ARG:CG	2.76	0.45
6:4C:108:LYS:HE2	6:4C:108:LYS:HB3	1.36	0.45
7:5A:1491:LEU:HD13	7:5A:1491:LEU:HA	1.82	0.45
7:5B:1521:PHE:HZ	7:5B:1571:MET:N	2.14	0.45
7:5C:841:VAL:HG12	8:6C:9:LEU:HD23	1.98	0.45
7:5C:1348:LYS:N	7:5C:1348:LYS:CD	2.73	0.45
7:5C:1499:LYS:NZ	7:5C:1513:ASP:O	2.47	0.45
10:9A:33:UNK:C	10:9A:35:UNK:N	2.76	0.45
1:AC:32:PRO:HB3	1:AC:83:TYR:CE1	2.52	0.45
2:AD:54:ALA:HB1	2:BD:281:TYR:O	2.17	0.45
2:AF:203:ASP:O	2:AF:207:LEU:HG	2.17	0.45
1:BA:32:PRO:HB3	1:BA:83:TYR:CE1	2.52	0.45
2:BB:55:THR:HG23	2:CB:283:ALA:HA	1.99	0.45
2:CD:208:TYR:CD2	1:CE:326:LYS:HB3	2.52	0.45
1:DA:179:THR:O	2:DB:350:LYS:HA	2.16	0.45
2:DF:105:HIS:CE1	2:DF:150:LEU:HD12	2.51	0.45
1:FA:419:SER:HB2	7:5C:1256:ARG:CZ	2.30	0.45
2:FB:203:ASP:O	2:FB:207:LEU:HG	2.17	0.45
1:FC:71:GLU:CD	2:FD:247:ASN:HD22	2.23	0.45
2:FD:203:ASP:O	2:FD:207:LEU:HG	2.17	0.45
1:FE:32:PRO:HB3	1:FE:83:TYR:CE1	2.51	0.45
2:FF:105:HIS:CE1	2:FF:150:LEU:HD12	2.52	0.45
1:GA:100:ALA:HB1	2:GB:252:LYS:CA	2.45	0.45
2:GD:91:VAL:HG21	2:GD:116:VAL:HB	1.96	0.45
2:GD:394:PHE:CD1	1:GE:261:PRO:HA	2.52	0.45
13:HB:501:GDP:C8	1:HC:248:LEU:CD1	2.99	0.45
1:HC:181:VAL:HG21	2:HD:256:ASN:O	2.16	0.45
1:HC:222:PRO:HG3	2:HD:324:LYS:HD3	1.95	0.45
2:HD:105:HIS:CE1	2:HD:150:LEU:HD12	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HD:212:PHE:CZ	1:HE:326:LYS:CE	2.98	0.45
1:IA:282:TYR:CE1	10:8V:14:UNK:O	2.70	0.45
2:ID:203:ASP:O	2:ID:207:LEU:HG	2.17	0.45
1:IE:100:ALA:HB1	2:IF:252:LYS:CA	2.46	0.45
1:JA:278:ALA:HB1	10:8Y:18:UNK:O	2.17	0.45
2:JD:203:ASP:O	2:JD:207:LEU:HG	2.17	0.45
2:KB:203:ASP:O	2:KB:207:LEU:HG	2.16	0.45
2:KB:221:THR:HB	6:4A:261:SER:HA	1.11	0.45
2:KB:276:ARG:NH2	6:4A:265:TYR:C	2.74	0.45
13:KB:501:GDP:C8	1:KC:248:LEU:CD1	2.99	0.45
2:KD:203:ASP:O	2:KD:207:LEU:HG	2.17	0.45
1:LA:32:PRO:HB3	1:LA:83:TYR:CE1	2.52	0.45
1:LC:32:PRO:HB3	1:LC:83:TYR:CE1	2.52	0.45
1:LC:188:ILE:HD12	1:LC:425:LEU:CD1	2.45	0.45
1:LC:222:PRO:HD2	2:LD:324:LYS:CG	2.46	0.45
2:LF:228:LEU:HD21	6:4D:225:PRO:HB2	1.97	0.45
2:MD:177:ASP:C	1:ME:352:LYS:HA	2.42	0.45
4:2A:171:VAL:HB	4:2A:176:ARG:HE	1.81	0.45
4:2B:171:VAL:HB	4:2B:176:ARG:HE	1.81	0.45
6:4B:243:ASP:HB3	6:4B:247:LYS:HD2	1.68	0.45
6:4C:230:TYR:OH	6:4C:240:LYS:CG	2.51	0.45
6:4D:167:ARG:NH1	6:4D:167:ARG:CB	2.79	0.45
7:5A:827:GLU:HA	7:5A:841:VAL:HG13	1.98	0.45
7:5A:835:GLN:HE21	7:5A:835:GLN:HA	1.80	0.45
7:5A:1093:LEU:HD21	7:5A:1107:LYS:HE2	1.98	0.45
7:5A:1407:GLN:HA	7:5A:1407:GLN:HE21	1.81	0.45
7:5B:1407:GLN:HA	7:5B:1407:GLN:HE21	1.81	0.45
7:5B:1475:PHE:CZ	7:5B:1565:GLU:OE2	2.56	0.45
7:5C:1093:LEU:HD21	7:5C:1107:LYS:HE2	1.98	0.45
2:AD:394:PHE:CD1	1:AE:261:PRO:HA	2.52	0.45
2:AF:372:THR:HA	2:AF:422:TYR:CE2	2.48	0.45
1:BA:60:LYS:HD3	1:CA:283:HIS:CD2	2.51	0.45
2:BB:220:PRO:HD2	1:BC:326:LYS:CE	2.42	0.45
2:BD:176:SER:CB	1:BE:349:THR:OG1	2.64	0.45
1:BE:147:SER:HB2	1:BE:190:SER:HB3	1.97	0.45
2:BF:203:ASP:O	2:BF:207:LEU:HG	2.17	0.45
1:CA:401:LYS:HE3	1:CA:401:LYS:HB2	1.74	0.45
2:CB:105:HIS:CE1	2:CB:150:LEU:HD12	2.52	0.45
1:CC:224:TYR:CE2	2:CD:246:LEU:HD11	2.48	0.45
2:DD:84:LEU:O	2:ED:281:TYR:OH	2.35	0.45
1:DE:401:LYS:HE3	1:DE:401:LYS:HB2	1.74	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DF:203:ASP:O	2:DF:207:LEU:HG	2.16	0.45
2:EB:102:ALA:HB2	2:EB:403:MET:HE3	1.99	0.45
2:EB:179:VAL:HG21	1:EC:258:ASN:C	2.31	0.45
2:EB:226:ASN:ND2	13:EB:501:GDP:HN1	2.12	0.45
1:EE:222:PRO:HG2	2:EF:324:LYS:HD3	1.93	0.45
2:EF:102:ALA:HB2	2:EF:403:MET:HE3	1.99	0.45
2:FB:102:ALA:HB2	2:FB:403:MET:HE3	1.99	0.45
2:FD:102:ALA:HB2	2:FD:403:MET:HE3	1.99	0.45
1:GC:222:PRO:HD2	2:GD:324:LYS:HD3	1.99	0.45
2:ID:394:PHE:CD1	1:IE:261:PRO:HA	2.52	0.45
2:IF:203:ASP:O	2:IF:207:LEU:HG	2.17	0.45
2:JB:222:TYR:HD2	1:JC:247:ALA:HB1	1.82	0.45
2:JF:203:ASP:O	2:JF:207:LEU:HG	2.17	0.45
2:KD:55:THR:HG21	2:LD:363:MET:HE3	1.83	0.45
2:KD:394:PHE:CD1	1:KE:261:PRO:HA	2.52	0.45
1:KE:84:ARG:NE	1:LE:283:HIS:HE1	2.10	0.45
2:KF:273:LEU:CB	6:4D:268:LEU:CD2	2.82	0.45
1:LA:188:ILE:HD12	1:LA:425:LEU:CD1	2.45	0.45
2:LB:178:THR:HA	1:LC:352:LYS:CD	2.45	0.45
2:MB:203:ASP:O	2:MB:207:LEU:HG	2.17	0.45
2:MD:203:ASP:O	2:MD:207:LEU:HG	2.17	0.45
1:ME:147:SER:HB2	1:ME:190:SER:HB3	1.97	0.45
4:2C:171:VAL:HB	4:2C:176:ARG:HE	1.81	0.45
6:4B:101:ARG:NH2	6:4B:101:ARG:CG	2.77	0.45
7:5B:840:GLY:HA3	8:6B:109:ILE:HD13	0.48	0.45
7:5B:1093:LEU:HD21	7:5B:1107:LYS:HE2	1.98	0.45
7:5B:1491:LEU:HD13	7:5B:1491:LEU:HA	1.82	0.45
7:5C:826:LEU:O	7:5C:841:VAL:HG13	2.17	0.45
7:5C:1455:LYS:HD2	7:5C:1455:LYS:HA	1.42	0.45
9:7A:2:PHE:HB3	9:7A:10:TYR:CE1	2.51	0.45
2:BD:226:ASN:ND2	13:BD:501:GDP:HN1	2.12	0.45
2:CD:105:HIS:CE1	2:CD:150:LEU:HD12	2.52	0.45
1:CE:32:PRO:HB3	1:CE:83:TYR:CE1	2.52	0.45
2:CF:102:ALA:HB2	2:CF:403:MET:HE3	1.99	0.45
1:DA:394:LYS:NZ	2:DB:347:ASN:OD1	2.49	0.45
2:DF:102:ALA:HB2	2:DF:403:MET:HE3	1.99	0.45
1:EA:404:PHE:CE2	2:EB:345:ILE:HD11	2.52	0.45
1:EA:430:LYS:HZ2	7:5C:834:ASN:ND2	0.96	0.45
1:EC:430:LYS:HZ2	7:5A:834:ASN:ND2	0.95	0.45
1:EE:422:ARG:HE	7:5B:821:LEU:HD13	1.81	0.45
1:FA:181:VAL:CG1	2:FB:348:ASN:HA	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FD:105:HIS:CE1	2:FD:150:LEU:HD12	2.52	0.45
1:FE:420:GLU:HA	7:5B:1256:ARG:HH22	1.81	0.45
2:GB:102:ALA:HB2	2:GB:403:MET:HE3	1.99	0.45
2:GD:102:ALA:HB2	2:GD:403:MET:HE3	1.99	0.45
1:GE:89:PRO:HG3	1:HE:280:LYS:CD	2.46	0.45
2:HB:203:ASP:O	2:HB:207:LEU:HG	2.17	0.45
1:IA:100:ALA:HB1	2:IB:252:LYS:CA	2.45	0.45
1:IA:279:GLU:N	10:8V:22:UNK:CB	2.80	0.45
1:IA:402:ARG:NH2	7:5C:1418:GLN:CA	2.71	0.45
1:IC:268:MET:HB2	1:IC:379:SER:O	2.17	0.45
2:ID:102:ALA:HB2	2:ID:403:MET:HE3	1.99	0.45
1:JA:88:HIS:ND1	1:KA:280:LYS:CD	2.69	0.45
1:JE:179:THR:O	2:JF:350:LYS:HA	2.15	0.45
2:LB:379:LYS:C	4:2C:166:ILE:HD13	2.24	0.45
2:LD:270:PHE:CE2	6:4B:226:ILE:CG2	2.96	0.45
2:LF:295:ASP:HA	4:2B:149:ILE:HA	1.98	0.45
1:ME:178:SER:OG	2:MF:347:ASN:HB3	2.16	0.45
4:2C:16:GLN:O	4:2C:19:MET:CB	2.64	0.45
6:4D:110:LYS:HD2	6:4D:110:LYS:N	2.32	0.45
7:5A:943:LEU:HD11	7:5A:951:LEU:HD12	1.97	0.45
7:5A:1359:ALA:HA	7:5A:1362:MET:SD	2.57	0.45
7:5A:1562:LEU:H	7:5A:1562:LEU:CD1	2.11	0.45
7:5B:1366:TRP:CE3	7:5B:1366:TRP:N	2.85	0.45
7:5B:1415:GLU:CD	7:5B:1415:GLU:C	2.83	0.45
7:5C:827:GLU:HA	7:5C:841:VAL:HG13	1.98	0.45
7:5C:848:SER:C	7:5C:850:GLU:N	2.73	0.45
7:5C:943:LEU:HD11	7:5C:951:LEU:HD12	1.97	0.45
7:5C:1030:PHE:CZ	7:5C:1034:ILE:HD11	2.50	0.45
7:5C:1359:ALA:HA	7:5C:1362:MET:SD	2.57	0.45
9:7C:2:PHE:HB3	9:7C:10:TYR:CE1	2.51	0.45
9:7E:42:LEU:CD1	9:7F:39:GLY:HA3	2.47	0.45
1:BC:224:TYR:CE2	2:BD:246:LEU:HD11	2.49	0.45
1:DA:224:TYR:CE2	2:DB:246:LEU:HD11	2.47	0.45
2:DD:203:ASP:O	2:DD:207:LEU:HG	2.16	0.45
2:DD:220:PRO:HD3	1:DE:326:LYS:HE2	1.96	0.45
1:EA:179:THR:O	2:EB:350:LYS:HA	2.16	0.45
2:ED:102:ALA:HB2	2:ED:403:MET:HE3	1.99	0.45
2:EF:55:THR:HG23	2:FF:283:ALA:C	2.39	0.45
2:FF:55:THR:OG1	2:GF:282:ARG:O	2.31	0.45
13:GB:501:GDP:C8	1:GC:248:LEU:CD1	2.99	0.45
2:GF:102:ALA:HB2	2:GF:403:MET:HE3	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HB:105:HIS:CE1	2:HB:150:LEU:HD12	2.52	0.45
1:HE:32:PRO:HB3	1:HE:83:TYR:CE1	2.52	0.45
1:IC:222:PRO:HG3	2:ID:324:LYS:HD3	1.95	0.45
2:ID:212:PHE:CZ	1:IE:326:LYS:CE	2.98	0.45
1:IE:389:SER:CB	5:3A:307:LYS:CD	2.55	0.45
1:JA:32:PRO:HB3	1:JA:83:TYR:CE1	2.51	0.45
1:JA:128:ASN:ND2	1:KA:285:GLN:NE2	2.45	0.45
2:JF:105:HIS:CE1	2:JF:150:LEU:HD12	2.52	0.45
4:2A:16:GLN:O	4:2A:19:MET:CB	2.64	0.45
6:4B:110:LYS:HD2	6:4B:110:LYS:N	2.32	0.45
6:4B:161:LYS:HA	6:4B:161:LYS:HD3	1.78	0.45
6:4C:241:LYS:HD3	6:4C:241:LYS:HA	1.51	0.45
7:5A:826:LEU:O	7:5A:841:VAL:HG13	2.17	0.45
7:5A:1272:ILE:CD1	9:7B:11:TYR:CD2	2.99	0.45
7:5A:1366:TRP:CE3	7:5A:1366:TRP:N	2.85	0.45
7:5B:1359:ALA:HA	7:5B:1362:MET:SD	2.57	0.45
7:5C:1366:TRP:CE3	7:5C:1366:TRP:N	2.85	0.45
7:5C:1412:LYS:HE2	7:5C:1416:LYS:CB	2.47	0.45
7:5C:1488:GLU:O	7:5C:1491:LEU:HB2	2.17	0.45
8:6C:131:ASP:OD1	8:6C:134:LYS:N	2.50	0.45
9:7C:11:TYR:CD1	9:7D:23:LEU:CD2	3.00	0.45
2:BB:262:ARG:NH1	2:BB:421:GLU:OE1	2.50	0.45
1:BE:404:PHE:CE2	2:BF:345:ILE:HD11	2.52	0.45
2:CB:203:ASP:O	2:CB:207:LEU:HG	2.17	0.45
2:CD:102:ALA:HB2	2:CD:403:MET:HE3	1.99	0.45
2:CD:203:ASP:O	2:CD:207:LEU:HG	2.16	0.45
1:CE:100:ALA:HB1	2:CF:252:LYS:CA	2.47	0.45
2:CF:203:ASP:O	2:CF:207:LEU:HG	2.17	0.45
2:DB:102:ALA:HB2	2:DB:403:MET:HE3	1.99	0.45
2:DD:87:PRO:HD2	2:ED:281:TYR:CE2	2.52	0.45
2:DD:102:ALA:HB2	2:DD:403:MET:HE3	1.99	0.45
2:DD:105:HIS:CE1	2:DD:150:LEU:HD12	2.52	0.45
1:DE:32:PRO:HB3	1:DE:83:TYR:CE1	2.52	0.45
1:DE:128:ASN:ND2	1:EE:285:GLN:NE2	2.64	0.45
2:DF:86:ARG:N	2:EF:281:TYR:HE1	2.09	0.45
2:EB:176:SER:CB	1:EC:349:THR:OG1	2.65	0.45
2:EF:25:SER:HG	2:EF:51:TYR:HH	1.58	0.45
1:FA:423:GLU:CG	7:5C:1256:ARG:NH2	2.79	0.45
2:FB:55:THR:HG21	2:GB:284:LEU:CB	2.46	0.45
1:FC:32:PRO:HB3	1:FC:83:TYR:CE1	2.51	0.45
2:FD:179:VAL:HG12	1:FE:350:GLY:C	2.42	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FF:102:ALA:HB2	2:FF:403:MET:HE3	1.99	0.45
2:GB:55:THR:OG1	2:HB:283:ALA:HA	2.14	0.45
1:GE:100:ALA:HB1	2:GF:252:LYS:CA	2.46	0.45
1:HA:32:PRO:HB3	1:HA:83:TYR:CE1	2.51	0.45
2:HF:203:ASP:O	2:HF:207:LEU:HG	2.17	0.45
2:IB:102:ALA:HB2	2:IB:403:MET:HE3	1.99	0.45
1:IE:268:MET:HB2	1:IE:379:SER:O	2.17	0.45
2:IF:102:ALA:HB2	2:IF:403:MET:HE3	1.99	0.45
1:JA:100:ALA:HB1	2:JB:252:LYS:CA	2.46	0.45
2:JB:262:ARG:NH1	2:JB:421:GLU:OE1	2.50	0.45
1:JC:222:PRO:HD2	2:JD:324:LYS:HD3	1.99	0.45
1:JE:32:PRO:HB3	1:JE:83:TYR:CE1	2.52	0.45
1:KA:32:PRO:HB3	1:KA:83:TYR:CE1	2.52	0.45
2:KB:55:THR:CG2	2:LB:363:MET:HE3	2.30	0.45
2:LB:203:ASP:O	2:LB:207:LEU:HG	2.17	0.45
5:3B:21:PHE:CE2	5:3B:24:MET:HE2	2.52	0.45
6:4A:110:LYS:HD2	6:4A:110:LYS:N	2.32	0.45
6:4B:229:GLU:N	6:4B:229:GLU:OE1	2.50	0.45
6:4D:101:ARG:NH2	6:4D:101:ARG:CG	2.77	0.45
6:4D:229:GLU:N	6:4D:229:GLU:OE1	2.50	0.45
7:5A:1412:LYS:HE2	7:5A:1416:LYS:CB	2.47	0.45
7:5A:1429:GLN:CD	7:5A:1429:GLN:C	2.85	0.45
7:5A:1488:GLU:O	7:5A:1491:LEU:HB2	2.17	0.45
7:5B:826:LEU:O	7:5B:841:VAL:HG13	2.17	0.45
7:5B:943:LEU:HD11	7:5B:951:LEU:HD12	1.97	0.45
7:5B:1412:LYS:HE2	7:5B:1416:LYS:CB	2.47	0.45
7:5B:1429:GLN:CD	7:5B:1429:GLN:C	2.85	0.45
7:5C:835:GLN:HE21	7:5C:835:GLN:HA	1.80	0.45
1:AA:71:GLU:HA	1:AA:72:PRO:HD3	1.84	0.45
2:AB:102:ALA:HB2	2:AB:403:MET:HE3	1.99	0.45
1:AC:340:THR:HG23	1:AC:341:ILE:HG13	1.99	0.45
1:AE:340:THR:HG23	1:AE:341:ILE:HG13	1.99	0.45
2:BB:226:ASN:ND2	13:BB:501:GDP:HN1	2.12	0.45
2:CB:102:ALA:HB2	2:CB:403:MET:HE3	1.99	0.45
2:CB:391:ARG:HG3	1:CC:346:TRP:CD1	2.52	0.45
2:CF:105:HIS:CE1	2:CF:150:LEU:HD12	2.52	0.45
2:DB:84:LEU:C	2:EB:281:TYR:OH	2.60	0.45
2:DB:203:ASP:O	2:DB:207:LEU:HG	2.16	0.45
1:DE:222:PRO:CG	2:DF:324:LYS:CD	2.90	0.45
1:DE:340:THR:HG23	1:DE:341:ILE:HG13	1.99	0.45
2:ED:177:ASP:HA	1:EE:353:VAL:HG12	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EE:71:GLU:OE2	1:EE:73:THR:OG1	2.28	0.45
2:FB:105:HIS:CE1	2:FB:150:LEU:HD12	2.52	0.45
2:FB:179:VAL:CG2	1:FC:258:ASN:HA	2.47	0.45
1:FC:268:MET:HB2	1:FC:379:SER:O	2.17	0.45
1:FE:268:MET:HB2	1:FE:379:SER:O	2.17	0.45
1:GC:19:ALA:HA	1:GC:22:GLU:OE1	2.17	0.45
1:GE:19:ALA:HA	1:GE:22:GLU:OE1	2.17	0.45
1:HC:32:PRO:HB3	1:HC:83:TYR:CE1	2.52	0.45
2:HF:102:ALA:HB2	2:HF:403:MET:HE3	1.99	0.45
1:IA:268:MET:HB2	1:IA:379:SER:O	2.17	0.45
1:IE:32:PRO:HB3	1:IE:83:TYR:CE1	2.52	0.45
1:IE:60:LYS:NZ	1:JE:283:HIS:CE1	2.85	0.45
2:IF:105:HIS:CE1	2:IF:150:LEU:HD12	2.52	0.45
2:JB:102:ALA:HB2	2:JB:403:MET:HE3	1.99	0.45
2:JD:105:HIS:CE1	2:JD:150:LEU:HD12	2.52	0.45
2:KB:102:ALA:HB2	2:KB:403:MET:HE3	1.99	0.45
2:KD:102:ALA:HB2	2:KD:403:MET:HE3	1.99	0.45
2:KD:262:ARG:NH1	2:KD:421:GLU:OE1	2.50	0.45
2:KF:102:ALA:HB2	2:KF:403:MET:HE3	1.99	0.45
1:LA:407:TRP:CE3	2:LB:255:VAL:CG1	2.75	0.45
2:LD:100:ASN:HB2	1:LE:257:THR:HG21	1.98	0.45
1:ME:222:PRO:HG2	2:MF:324:LYS:HD3	1.98	0.45
2:MF:203:ASP:O	2:MF:207:LEU:HG	2.17	0.45
5:3A:21:PHE:CE2	5:3A:24:MET:HE2	2.52	0.45
5:3C:21:PHE:CE2	5:3C:24:MET:HE2	2.52	0.45
6:4C:110:LYS:HD2	6:4C:110:LYS:N	2.32	0.45
7:5A:1105:TYR:O	7:5A:1166:LEU:HD12	2.16	0.45
7:5A:1152:GLU:OE1	8:6A:66:ARG:NH2	2.49	0.45
7:5A:1475:PHE:CZ	7:5A:1565:GLU:OE2	2.56	0.45
7:5B:839:GLU:CD	8:6B:109:ILE:CG1	2.86	0.45
7:5B:1459:GLU:CD	7:5B:1459:GLU:C	2.85	0.45
7:5C:1429:GLN:CD	7:5C:1429:GLN:C	2.85	0.45
7:5C:1490:LYS:HE3	7:5C:1494:LEU:HD22	1.98	0.45
8:6A:81:GLU:HA	8:6A:85:GLU:OE1	2.15	0.45
8:6A:131:ASP:OD1	8:6A:134:LYS:N	2.50	0.45
8:6B:131:ASP:OD1	8:6B:134:LYS:N	2.50	0.45
1:AA:340:THR:HG23	1:AA:341:ILE:HG13	1.99	0.45
1:AC:222:PRO:HD2	2:AD:324:LYS:HD3	1.99	0.45
2:AD:102:ALA:HB2	2:AD:403:MET:HE3	1.99	0.45
2:AF:262:ARG:NH1	2:AF:421:GLU:OE1	2.50	0.45
2:BB:98:GLY:CA	1:BC:254:GLU:CG	2.56	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:179:THR:O	2:BD:350:LYS:HA	2.17	0.45
2:BF:102:ALA:HB2	2:BF:403:MET:HE3	1.99	0.45
1:CC:179:THR:O	2:CD:350:LYS:HA	2.16	0.45
1:CE:340:THR:HG23	1:CE:341:ILE:HG13	1.99	0.45
2:DB:105:HIS:CE1	2:DB:150:LEU:HD12	2.52	0.45
1:DC:32:PRO:HB3	1:DC:83:TYR:CE1	2.52	0.45
1:DC:340:THR:HG23	1:DC:341:ILE:HG13	1.99	0.45
1:FA:268:MET:HB2	1:FA:379:SER:O	2.17	0.45
1:GC:89:PRO:HG3	1:HC:280:LYS:HE3	1.98	0.45
2:GF:203:ASP:O	2:GF:207:LEU:HG	2.17	0.45
2:GF:262:ARG:NH1	2:GF:421:GLU:OE1	2.50	0.45
2:HD:102:ALA:HB2	2:HD:403:MET:HE3	1.99	0.45
2:HD:203:ASP:O	2:HD:207:LEU:HG	2.17	0.45
1:HE:268:MET:HB2	1:HE:379:SER:O	2.17	0.45
1:IA:32:PRO:HB3	1:IA:83:TYR:CE1	2.52	0.45
2:ID:56:GLY:H	10:8Z:36:UNK:HA	1.82	0.45
2:IF:262:ARG:NH1	2:IF:421:GLU:OE1	2.50	0.45
1:JA:222:PRO:CG	2:JB:324:LYS:CD	2.91	0.45
1:JA:398:MET:SD	2:JB:345:ILE:CG1	2.90	0.45
2:JB:220:PRO:HD2	1:JC:326:LYS:CE	2.44	0.45
1:JC:32:PRO:HB3	1:JC:83:TYR:CE1	2.52	0.45
2:JD:220:PRO:HD2	1:JE:326:LYS:CE	2.44	0.45
2:KB:105:HIS:CE1	2:KB:150:LEU:HD12	2.52	0.45
2:KB:262:ARG:NH1	2:KB:421:GLU:OE1	2.50	0.45
1:KC:32:PRO:HB3	1:KC:83:TYR:CE1	2.52	0.45
2:LD:203:ASP:O	2:LD:207:LEU:HG	2.17	0.45
2:LD:306:ARG:HH22	4:2A:151:VAL:CG2	2.08	0.45
2:LF:416:ASN:O	4:2B:168:LEU:HD12	1.94	0.45
2:MB:102:ALA:HB2	2:MB:403:MET:HE3	1.99	0.45
2:MD:102:ALA:HB2	2:MD:403:MET:HE3	1.99	0.45
4:2B:16:GLN:O	4:2B:19:MET:CB	2.64	0.45
6:4A:229:GLU:N	6:4A:229:GLU:OE1	2.50	0.45
6:4C:206:PHE:O	6:4C:206:PHE:CD2	2.70	0.45
6:4C:229:GLU:N	6:4C:229:GLU:OE1	2.50	0.45
7:5A:1459:GLU:CD	7:5A:1459:GLU:C	2.85	0.45
7:5A:1490:LYS:HE3	7:5A:1494:LEU:HD22	1.98	0.45
7:5B:1488:GLU:O	7:5B:1491:LEU:HB2	2.17	0.45
7:5B:1490:LYS:HE3	7:5B:1494:LEU:HD22	1.98	0.45
7:5C:1105:TYR:O	7:5C:1166:LEU:HD12	2.16	0.45
7:5C:1543:LEU:C	7:5C:1573:ARG:CD	2.90	0.45
9:7E:18:VAL:HG11	9:7F:35:ILE:HG23	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AB:501:GDP:C8	1:AC:248:LEU:CD1	2.99	0.44
2:AD:262:ARG:NH1	2:AD:421:GLU:OE1	2.50	0.44
2:AF:54:ALA:HB1	2:BF:281:TYR:O	2.18	0.44
2:AF:102:ALA:HB2	2:AF:403:MET:HE3	1.99	0.44
1:BA:71:GLU:HA	1:BA:72:PRO:HD3	1.84	0.44
2:BB:102:ALA:HB2	2:BB:403:MET:HE3	1.99	0.44
2:BD:102:ALA:HB2	2:BD:403:MET:HE3	1.99	0.44
1:BE:340:THR:HG23	1:BE:341:ILE:HG13	1.99	0.44
2:CB:391:ARG:HA	2:CB:391:ARG:HD2	1.79	0.44
1:CC:71:GLU:CD	2:CD:247:ASN:ND2	2.75	0.44
1:CC:340:THR:HG23	1:CC:341:ILE:HG13	1.99	0.44
1:DA:340:THR:HG23	1:DA:341:ILE:HG13	1.99	0.44
1:EE:19:ALA:HA	1:EE:22:GLU:OE1	2.17	0.44
1:EE:430:LYS:CD	7:5B:834:ASN:HD22	2.23	0.44
1:FA:423:GLU:HG3	7:5C:1256:ARG:NH2	2.32	0.44
2:FD:179:VAL:CG2	1:FE:258:ASN:O	2.40	0.44
2:GD:262:ARG:NH1	2:GD:421:GLU:OE1	2.50	0.44
1:GE:60:LYS:HD2	1:HE:283:HIS:CG	2.42	0.44
2:HB:102:ALA:HB2	2:HB:403:MET:HE3	1.99	0.44
1:HC:268:MET:HB2	1:HC:379:SER:O	2.17	0.44
2:HF:262:ARG:NH1	2:HF:421:GLU:OE1	2.50	0.44
2:ID:105:HIS:CE1	2:ID:150:LEU:HD12	2.52	0.44
2:JB:105:HIS:CE1	2:JB:150:LEU:HD12	2.52	0.44
2:JD:102:ALA:HB2	2:JD:403:MET:HE3	1.99	0.44
1:JE:100:ALA:HB1	2:JF:252:LYS:CA	2.46	0.44
1:JE:224:TYR:CE2	2:JF:246:LEU:HD11	2.46	0.44
2:JF:102:ALA:HB2	2:JF:403:MET:HE3	1.99	0.44
1:KA:79:ARG:C	1:LA:280:LYS:CE	2.69	0.44
2:KD:54:ALA:HA	2:LD:285:THR:HG22	1.95	0.44
2:KD:105:HIS:CE1	2:KD:150:LEU:HD12	2.52	0.44
1:KE:88:HIS:CG	1:LE:284:GLU:HB2	2.52	0.44
2:KF:125:GLU:HA	4:2B:37:GLY:O	2.17	0.44
1:LC:100:ALA:O	2:LD:255:VAL:HG21	2.16	0.44
2:LF:55:THR:HG1	2:MF:282:ARG:C	2.13	0.44
2:MB:111:GLU:CB	3:1A:62:SER:HA	2.47	0.44
2:MF:262:ARG:NH1	2:MF:421:GLU:OE1	2.50	0.44
4:2A:12:LEU:HB3	4:2A:17:ILE:HG13	1.98	0.44
5:3A:230:ILE:HG21	5:3A:332:MET:SD	2.54	0.44
6:4A:206:PHE:O	6:4A:206:PHE:CD2	2.70	0.44
7:5A:1543:LEU:C	7:5A:1573:ARG:CD	2.90	0.44
7:5B:1253:ILE:CD1	7:5B:1261:ALA:HB1	2.47	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1543:LEU:C	7:5B:1573:ARG:CD	2.90	0.44
7:5B:1572:LEU:HG	7:5B:1576:ILE:HD11	1.93	0.44
7:5C:826:LEU:C	7:5C:840:GLY:O	2.60	0.44
7:5C:846:PHE:CD1	7:5C:846:PHE:O	2.70	0.44
7:5C:1459:GLU:CD	7:5C:1459:GLU:C	2.85	0.44
2:AD:55:THR:CG2	2:BD:283:ALA:CA	2.76	0.44
1:BA:268:MET:HB2	1:BA:379:SER:O	2.17	0.44
1:BA:398:MET:SD	2:BB:345:ILE:CG1	2.90	0.44
1:BC:340:THR:HG23	1:BC:341:ILE:HG13	1.99	0.44
1:BE:394:LYS:NZ	2:BF:347:ASN:OD1	2.51	0.44
1:CA:340:THR:HG23	1:CA:341:ILE:HG13	1.99	0.44
1:DA:32:PRO:HB3	1:DA:83:TYR:CE1	2.52	0.44
1:DC:402:ARG:CD	7:5A:777:ALA:HB1	2.46	0.44
1:EA:19:ALA:HA	1:EA:22:GLU:OE1	2.17	0.44
1:EA:268:MET:HB2	1:EA:379:SER:O	2.17	0.44
1:EA:340:THR:HG23	1:EA:341:ILE:HG13	1.99	0.44
1:EC:19:ALA:HA	1:EC:22:GLU:OE1	2.17	0.44
1:EC:340:THR:HG23	1:EC:341:ILE:HG13	1.99	0.44
1:EE:181:VAL:HG12	2:EF:348:ASN:HA	1.99	0.44
2:EF:391:ARG:HA	2:EF:391:ARG:HD2	1.79	0.44
1:FA:340:THR:HG23	1:FA:341:ILE:HG13	1.99	0.44
2:FB:58:ARG:HD3	2:GB:280:GLN:O	2.17	0.44
2:FB:384:GLN:HB3	1:FC:348:PRO:HG2	1.99	0.44
2:FD:106:TYR:HA	7:5A:1294:ILE:HG21	1.24	0.44
2:FD:179:VAL:HG22	1:FE:258:ASN:CB	2.48	0.44
1:FE:401:LYS:HE3	1:FE:401:LYS:HB2	1.74	0.44
1:GA:222:PRO:CG	2:GB:324:LYS:CD	2.91	0.44
2:HB:55:THR:HG23	2:IB:283:ALA:CB	2.47	0.44
1:HC:19:ALA:HA	1:HC:22:GLU:OE1	2.17	0.44
1:HE:19:ALA:HA	1:HE:22:GLU:OE1	2.17	0.44
1:HE:176:GLN:O	2:HF:347:ASN:ND2	2.40	0.44
1:IC:32:PRO:HB3	1:IC:83:TYR:CE1	2.52	0.44
2:ID:87:PRO:HD2	2:JD:281:TYR:CD2	2.52	0.44
2:ID:262:ARG:NH1	2:ID:421:GLU:OE1	2.50	0.44
1:JA:268:MET:HB2	1:JA:379:SER:O	2.17	0.44
1:LA:176:GLN:HG3	4:2C:42:PHE:CD1	2.52	0.44
2:LD:102:ALA:HB2	2:LD:403:MET:HE3	1.99	0.44
2:LF:102:ALA:HB2	2:LF:403:MET:HE3	1.99	0.44
1:MA:282:TYR:CE1	6:4C:98:PRO:HB3	2.51	0.44
1:MC:340:THR:HG23	1:MC:341:ILE:HG13	1.99	0.44
2:MF:79:GLY:C	6:4D:179:ARG:CD	2.90	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MF:102:ALA:HB2	2:MF:403:MET:HE3	1.99	0.44
4:2B:12:LEU:HB3	4:2B:17:ILE:HG13	1.98	0.44
5:3B:230:ILE:HG21	5:3B:332:MET:SD	2.54	0.44
5:3C:230:ILE:HG21	5:3C:332:MET:SD	2.54	0.44
6:4A:161:LYS:HA	6:4A:161:LYS:HD3	1.78	0.44
6:4B:206:PHE:O	6:4B:206:PHE:CD2	2.71	0.44
6:4D:206:PHE:O	6:4D:206:PHE:CD2	2.70	0.44
6:4D:239:LEU:HD13	6:4D:239:LEU:HA	1.83	0.44
7:5A:826:LEU:C	7:5A:840:GLY:O	2.60	0.44
7:5A:1253:ILE:CD1	7:5A:1261:ALA:HB1	2.47	0.44
7:5B:846:PHE:O	7:5B:846:PHE:CG	2.69	0.44
7:5B:1079:PHE:CZ	7:5B:1164:GLN:HG2	2.52	0.44
7:5B:1105:TYR:O	7:5B:1166:LEU:HD12	2.16	0.44
7:5C:1253:ILE:CD1	7:5C:1261:ALA:HB1	2.47	0.44
7:5C:1416:LYS:HD3	7:5C:1416:LYS:C	2.42	0.44
7:5C:1475:PHE:CZ	7:5C:1565:GLU:OE2	2.56	0.44
7:5C:1577:LYS:HA	7:5C:1577:LYS:HD2	1.80	0.44
2:AB:262:ARG:NH1	2:AB:421:GLU:OE1	2.50	0.44
1:AC:268:MET:HB2	1:AC:379:SER:O	2.17	0.44
1:BC:268:MET:HB2	1:BC:379:SER:O	2.17	0.44
1:BE:60:LYS:NZ	1:CE:283:HIS:CE1	2.85	0.44
1:CE:268:MET:HB2	1:CE:379:SER:O	2.17	0.44
1:DA:128:ASN:HD21	1:EA:285:GLN:NE2	2.16	0.44
2:DB:20:PHE:O	2:DB:24:ILE:HG12	2.18	0.44
1:DC:100:ALA:HB1	2:DD:252:LYS:CA	2.48	0.44
1:DC:398:MET:SD	2:DD:345:ILE:CG1	2.92	0.44
1:DC:404:PHE:CE2	2:DD:345:ILE:HD11	2.53	0.44
2:DD:20:PHE:O	2:DD:24:ILE:HG12	2.18	0.44
1:EC:268:MET:HB2	1:EC:379:SER:O	2.17	0.44
1:EC:393:HIS:ND1	7:5A:814:LYS:CG	2.81	0.44
1:EE:340:THR:HG23	1:EE:341:ILE:HG13	1.99	0.44
1:GA:19:ALA:HA	1:GA:22:GLU:OE1	2.17	0.44
2:GD:203:ASP:O	2:GD:207:LEU:HG	2.17	0.44
1:HC:100:ALA:HB1	2:HD:252:LYS:CA	2.47	0.44
2:HF:226:ASN:ND2	13:HF:501:GDP:HN1	2.12	0.44
2:IB:105:HIS:CE1	2:IB:150:LEU:HD12	2.52	0.44
1:IC:279:GLU:CD	10:8W:22:UNK:HA	2.42	0.44
1:JC:128:ASN:HA	1:KC:285:GLN:HE22	1.82	0.44
1:JC:268:MET:HB2	1:JC:379:SER:O	2.17	0.44
1:KA:248:LEU:HD12	1:KA:248:LEU:HA	1.89	0.44
2:KB:127:CYS:N	4:2C:38:VAL:HB	1.94	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KD:28:HIS:C	2:KD:43:GLN:HE21	2.26	0.44
1:KE:32:PRO:HB3	1:KE:83:TYR:CE1	2.52	0.44
2:KF:105:HIS:CE1	2:KF:150:LEU:HD12	2.52	0.44
2:LB:102:ALA:HB2	2:LB:403:MET:HE3	1.99	0.44
2:LD:55:THR:OG1	2:MD:283:ALA:HA	2.17	0.44
2:LF:203:ASP:O	2:LF:207:LEU:HG	2.17	0.44
2:LF:262:ARG:NH1	2:LF:421:GLU:OE1	2.50	0.44
1:MC:224:TYR:CE2	2:MD:246:LEU:HD11	2.45	0.44
1:ME:11:GLN:HE22	2:MF:246:LEU:HA	1.82	0.44
1:ME:340:THR:HG23	1:ME:341:ILE:HG13	1.99	0.44
4:2C:12:LEU:HB3	4:2C:17:ILE:HG13	1.98	0.44
6:4D:243:ASP:HB3	6:4D:247:LYS:HD2	1.68	0.44
7:5A:846:PHE:CD1	7:5A:846:PHE:O	2.70	0.44
7:5A:1079:PHE:CZ	7:5A:1164:GLN:HG2	2.52	0.44
7:5A:1416:LYS:NZ	7:5A:1419:GLU:HB3	2.32	0.44
7:5B:1120:ASP:HB2	7:5B:1125:LEU:HD12	1.98	0.44
7:5B:1373:PHE:HA	7:5B:1376:GLN:HG3	1.98	0.44
7:5C:1079:PHE:CZ	7:5C:1164:GLN:HG2	2.52	0.44
8:6B:81:GLU:HA	8:6B:85:GLU:OE1	2.15	0.44
1:AE:268:MET:HB2	1:AE:379:SER:O	2.17	0.44
1:BA:340:THR:HG23	1:BA:341:ILE:HG13	1.99	0.44
2:BB:20:PHE:O	2:BB:24:ILE:HG12	2.18	0.44
2:BF:20:PHE:O	2:BF:24:ILE:HG12	2.18	0.44
2:CB:28:HIS:C	2:CB:43:GLN:HE21	2.26	0.44
1:CE:60:LYS:CE	1:DE:283:HIS:CD2	3.01	0.44
1:CE:407:TRP:CZ3	2:CF:255:VAL:O	2.31	0.44
2:CF:28:HIS:C	2:CF:43:GLN:HE21	2.26	0.44
1:DC:60:LYS:HD3	1:EC:283:HIS:HD2	1.14	0.44
1:EA:60:LYS:HD3	1:FA:283:HIS:HA	1.99	0.44
1:EE:268:MET:HB2	1:EE:379:SER:O	2.17	0.44
1:FA:19:ALA:HA	1:FA:22:GLU:OE1	2.17	0.44
1:FA:32:PRO:HB3	1:FA:83:TYR:CE1	2.52	0.44
2:FD:332:ASN:CG	7:5A:909:ASN:ND2	2.73	0.44
2:FD:391:ARG:HD2	2:FD:391:ARG:HA	1.79	0.44
1:FE:420:GLU:HA	7:5B:1256:ARG:NH2	2.33	0.44
1:GA:268:MET:HB2	1:GA:379:SER:O	2.17	0.44
1:GA:340:THR:HG23	1:GA:341:ILE:HG13	1.99	0.44
2:GB:262:ARG:NH1	2:GB:421:GLU:OE1	2.50	0.44
1:GC:268:MET:HB2	1:GC:379:SER:O	2.17	0.44
1:GC:340:THR:HG23	1:GC:341:ILE:HG13	1.99	0.44
1:GE:340:THR:HG23	1:GE:341:ILE:HG13	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HA:268:MET:HB2	1:HA:379:SER:O	2.17	0.44
2:HD:262:ARG:NH1	2:HD:421:GLU:OE1	2.50	0.44
1:HE:282:TYR:CE1	10:8U:15:UNK:CA	2.97	0.44
2:IB:86:ARG:HD3	2:JB:281:TYR:HB3	1.51	0.44
2:IB:262:ARG:NH1	2:IB:421:GLU:OE1	2.50	0.44
1:IC:222:PRO:HD2	2:ID:324:LYS:HD3	1.99	0.44
13:ID:501:GDP:C8	1:IE:248:LEU:CD1	3.00	0.44
1:IE:19:ALA:HA	1:IE:22:GLU:OE1	2.17	0.44
2:JB:177:ASP:CG	1:JC:353:VAL:HG13	1.99	0.44
1:JC:279:GLU:OE1	10:8Z:22:UNK:CA	2.64	0.44
1:LA:19:ALA:HA	1:LA:22:GLU:OE1	2.17	0.44
2:LB:179:VAL:HG21	1:LC:258:ASN:CA	2.46	0.44
1:LE:340:THR:HG23	1:LE:341:ILE:HG13	1.99	0.44
1:MA:340:THR:HG23	1:MA:341:ILE:HG13	1.99	0.44
6:4B:265:TYR:CD2	6:4B:265:TYR:O	2.70	0.44
6:4C:265:TYR:CD2	6:4C:265:TYR:O	2.70	0.44
7:5A:846:PHE:O	7:5A:846:PHE:CG	2.69	0.44
7:5A:907:PHE:CE2	7:5A:921:HIS:HD2	2.35	0.44
7:5A:1148:PHE:CZ	7:5A:1150:ILE:HG22	2.52	0.44
7:5A:1416:LYS:HD3	7:5A:1416:LYS:C	2.42	0.44
7:5A:1439:GLU:CD	7:5A:1439:GLU:C	2.86	0.44
7:5A:1455:LYS:HD2	7:5A:1455:LYS:HA	1.42	0.44
7:5A:1572:LEU:HG	7:5A:1576:ILE:HD11	1.92	0.44
7:5B:826:LEU:C	7:5B:840:GLY:O	2.60	0.44
7:5B:907:PHE:CE2	7:5B:921:HIS:HD2	2.35	0.44
7:5B:1148:PHE:CZ	7:5B:1150:ILE:HG22	2.52	0.44
7:5B:1347:LEU:HD13	7:5B:1347:LEU:H	1.81	0.44
7:5B:1416:LYS:NZ	7:5B:1419:GLU:HB3	2.32	0.44
7:5B:1416:LYS:HD3	7:5B:1416:LYS:C	2.42	0.44
7:5B:1436:ARG:HG3	7:5B:1436:ARG:NH1	2.30	0.44
7:5B:1531:TYR:HB2	7:5B:1541:ILE:HD11	1.99	0.44
7:5B:1562:LEU:H	7:5B:1562:LEU:CD1	2.11	0.44
7:5C:841:VAL:N	8:6C:109:ILE:CD1	2.44	0.44
7:5C:1148:PHE:CZ	7:5C:1150:ILE:HG22	2.52	0.44
7:5C:1416:LYS:NZ	7:5C:1419:GLU:HB3	2.32	0.44
7:5C:1439:GLU:CD	7:5C:1439:GLU:C	2.86	0.44
9:7A:11:TYR:CD1	9:7B:23:LEU:CD2	3.00	0.44
1:AC:19:ALA:HA	1:AC:22:GLU:OE1	2.17	0.44
1:AC:386:GLU:CD	3:1C:76:ARG:NH2	2.75	0.44
1:BA:19:ALA:HA	1:BA:22:GLU:OE1	2.17	0.44
1:BA:100:ALA:HB1	2:BB:252:LYS:CA	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BD:20:PHE:O	2:BD:24:ILE:HG12	2.18	0.44
1:BE:268:MET:HB2	1:BE:379:SER:O	2.17	0.44
1:CC:268:MET:HB2	1:CC:379:SER:O	2.17	0.44
1:CC:401:LYS:HE3	1:CC:401:LYS:HB2	1.74	0.44
2:CD:28:HIS:C	2:CD:43:GLN:HE21	2.26	0.44
2:DF:20:PHE:O	2:DF:24:ILE:HG12	2.18	0.44
2:EF:262:ARG:NH1	2:EF:421:GLU:OE1	2.50	0.44
2:FB:394:PHE:CE2	1:FC:258:ASN:C	2.95	0.44
1:FC:340:THR:HG23	1:FC:341:ILE:HG13	1.99	0.44
1:FE:340:THR:HG23	1:FE:341:ILE:HG13	1.99	0.44
2:GB:203:ASP:O	2:GB:207:LEU:HG	2.16	0.44
1:GE:268:MET:HB2	1:GE:379:SER:O	2.17	0.44
1:HA:60:LYS:HZ2	1:IA:283:HIS:CD2	2.35	0.44
2:HB:262:ARG:NH1	2:HB:421:GLU:OE1	2.50	0.44
1:HC:415:GLU:CB	5:3C:235:LEU:HB2	2.45	0.44
1:JC:19:ALA:HA	1:JC:22:GLU:OE1	2.17	0.44
13:JD:501:GDP:C8	1:JE:248:LEU:CD1	3.00	0.44
1:JE:19:ALA:HA	1:JE:22:GLU:OE1	2.17	0.44
1:KA:268:MET:HB2	1:KA:379:SER:O	2.17	0.44
1:KA:340:THR:HG23	1:KA:341:ILE:HG13	1.99	0.44
2:KB:28:HIS:C	2:KB:43:GLN:HE21	2.26	0.44
1:KC:87:PHE:C	1:LC:283:HIS:O	2.58	0.44
1:KC:248:LEU:HD12	1:KC:248:LEU:HA	1.89	0.44
1:KC:268:MET:HB2	1:KC:379:SER:O	2.17	0.44
1:KC:340:THR:HG23	1:KC:341:ILE:HG13	1.99	0.44
1:KE:340:THR:HG23	1:KE:341:ILE:HG13	1.99	0.44
2:KF:28:HIS:C	2:KF:43:GLN:HE21	2.26	0.44
2:KF:276:ARG:HH21	6:4D:265:TYR:C	2.23	0.44
1:MA:164:LYS:HA	1:MA:164:LYS:HD3	1.85	0.44
2:MB:179:VAL:CG2	1:MC:258:ASN:O	2.40	0.44
2:MB:179:VAL:HG22	1:MC:258:ASN:CB	2.48	0.44
1:MC:19:ALA:HA	1:MC:22:GLU:OE1	2.17	0.44
2:MD:262:ARG:NH1	2:MD:421:GLU:OE1	2.50	0.44
2:MF:28:HIS:C	2:MF:43:GLN:HE21	2.26	0.44
4:2B:144:ASN:ND2	4:2B:144:ASN:H	2.15	0.44
6:4A:145:PHE:CD2	6:4A:145:PHE:O	2.70	0.44
6:4A:265:TYR:CD2	6:4A:265:TYR:O	2.70	0.44
6:4C:145:PHE:O	6:4C:145:PHE:CD2	2.70	0.44
6:4D:116:THR:HA	6:4D:119:ASN:ND2	2.32	0.44
6:4D:265:TYR:CD2	6:4D:265:TYR:O	2.70	0.44
7:5A:1120:ASP:HB2	7:5A:1125:LEU:HD12	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5A:1532:PRO:HG2	7:5A:1608:ASN:HD21	1.83	0.44
7:5B:1439:GLU:CD	7:5B:1439:GLU:C	2.86	0.44
7:5B:1532:PRO:HG2	7:5B:1608:ASN:HD21	1.83	0.44
7:5C:1531:TYR:HB2	7:5C:1541:ILE:HD11	1.99	0.44
1:AA:268:MET:HB2	1:AA:379:SER:O	2.17	0.44
2:AB:222:TYR:HD2	1:AC:247:ALA:HB1	1.82	0.44
1:AE:19:ALA:HA	1:AE:22:GLU:OE1	2.17	0.44
1:AE:280:LYS:CE	2:MB:86:ARG:HH21	2.30	0.44
2:BB:415:MET:O	2:BB:419:VAL:HG23	2.18	0.44
1:BC:19:ALA:HA	1:BC:22:GLU:OE1	2.17	0.44
2:BD:415:MET:O	2:BD:419:VAL:HG23	2.18	0.44
1:BE:19:ALA:HA	1:BE:22:GLU:OE1	2.17	0.44
2:BF:55:THR:HG23	2:CF:283:ALA:HA	2.00	0.44
1:CA:100:ALA:HB1	2:CB:252:LYS:CA	2.48	0.44
1:DE:19:ALA:HA	1:DE:22:GLU:OE1	2.17	0.44
1:EC:71:GLU:OE2	1:EC:73:THR:OG1	2.28	0.44
2:FB:20:PHE:O	2:FB:24:ILE:HG12	2.18	0.44
2:FB:28:HIS:C	2:FB:43:GLN:HE21	2.26	0.44
1:FC:19:ALA:HA	1:FC:22:GLU:OE1	2.17	0.44
1:FC:423:GLU:OE2	7:5A:1256:ARG:NH1	2.47	0.44
2:FD:388:MET:HA	1:FE:346:TRP:O	2.17	0.44
2:FF:226:ASN:ND2	13:FF:501:GDP:HN1	2.12	0.44
2:GB:379:LYS:HZ1	7:5C:1316:LEU:HD11	1.82	0.44
2:GB:415:MET:O	2:GB:419:VAL:HG23	2.18	0.44
2:GD:415:MET:O	2:GD:419:VAL:HG23	2.18	0.44
2:GF:415:MET:O	2:GF:419:VAL:HG23	2.18	0.44
1:HA:340:THR:HG23	1:HA:341:ILE:HG13	1.99	0.44
2:HB:20:PHE:O	2:HB:24:ILE:HG12	2.18	0.44
2:HD:20:PHE:O	2:HD:24:ILE:HG12	2.18	0.44
2:HD:226:ASN:ND2	13:HD:501:GDP:HN1	2.12	0.44
1:IC:19:ALA:HA	1:IC:22:GLU:OE1	2.17	0.44
2:ID:28:HIS:C	2:ID:43:GLN:HE21	2.26	0.44
2:IF:28:HIS:C	2:IF:43:GLN:HE21	2.26	0.44
2:IF:55:THR:HB	10:9A:36:UNK:O	2.17	0.44
1:JA:340:THR:HG23	1:JA:341:ILE:HG13	1.99	0.44
1:JC:340:THR:HG23	1:JC:341:ILE:HG13	1.99	0.44
2:JD:28:HIS:C	2:JD:43:GLN:HE21	2.26	0.44
2:JD:415:MET:O	2:JD:419:VAL:HG23	2.18	0.44
1:JE:340:THR:HG23	1:JE:341:ILE:HG13	1.99	0.44
2:JF:415:MET:O	2:JF:419:VAL:HG23	2.18	0.44
1:KA:224:TYR:CE2	2:KB:246:LEU:HD11	2.44	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:100:ALA:HB1	2:KD:252:LYS:CA	2.47	0.44
2:KD:55:THR:H	2:LD:285:THR:HG22	1.82	0.44
2:KD:126:GLY:C	4:2A:39:ALA:H	2.26	0.44
2:KD:215:LEU:HD12	6:4B:267:ILE:HG22	1.85	0.44
1:KE:127:ASP:OD2	1:LE:334:THR:HG23	2.17	0.44
1:LA:340:THR:HG23	1:LA:341:ILE:HG13	1.99	0.44
2:LB:379:LYS:O	4:2C:166:ILE:HD13	2.17	0.44
2:LB:391:ARG:HA	2:LB:391:ARG:HD2	1.79	0.44
2:LB:415:MET:O	2:LB:419:VAL:HG23	2.18	0.44
2:LD:262:ARG:NH1	2:LD:421:GLU:OE1	2.50	0.44
1:MA:19:ALA:HA	1:MA:22:GLU:OE1	2.17	0.44
1:ME:19:ALA:HA	1:ME:22:GLU:OE1	2.17	0.44
1:ME:268:MET:HB2	1:ME:379:SER:O	2.17	0.44
4:2A:144:ASN:ND2	4:2A:144:ASN:H	2.15	0.44
4:2B:129:GLU:OE2	4:2B:135:LYS:HD3	2.17	0.44
4:2C:144:ASN:ND2	4:2C:144:ASN:H	2.15	0.44
6:4A:260:ARG:HH22	6:4A:295:LYS:CE	2.31	0.44
6:4B:145:PHE:O	6:4B:145:PHE:CD2	2.70	0.44
7:5A:1347:LEU:HD13	7:5A:1347:LEU:H	1.81	0.44
7:5A:1373:PHE:HA	7:5A:1376:GLN:HG3	1.98	0.44
7:5A:1531:TYR:HB2	7:5A:1541:ILE:HD11	1.99	0.44
7:5B:846:PHE:O	7:5B:846:PHE:CD1	2.70	0.44
7:5B:1268:LEU:CD2	9:7D:19:LEU:HD13	2.47	0.44
7:5C:846:PHE:O	7:5C:846:PHE:CG	2.69	0.44
7:5C:907:PHE:CE2	7:5C:921:HIS:HD2	2.35	0.44
7:5C:1589:LEU:HG	7:5C:1595:LEU:HD12	1.99	0.44
2:AF:356:ILE:HD12	6:4A:152:PHE:HD1	1.75	0.44
1:CA:268:MET:HB2	1:CA:379:SER:O	2.17	0.44
2:CB:415:MET:O	2:CB:419:VAL:HG23	2.18	0.44
1:DA:268:MET:HB2	1:DA:379:SER:O	2.17	0.44
1:DC:19:ALA:HA	1:DC:22:GLU:OE1	2.17	0.44
2:EB:86:ARG:HA	2:FB:281:TYR:CZ	2.52	0.44
2:ED:28:HIS:C	2:ED:43:GLN:HE21	2.26	0.44
2:ED:262:ARG:NH1	2:ED:421:GLU:OE1	2.50	0.44
1:EE:221:ARG:NH1	2:EF:324:LYS:N	2.66	0.44
2:EF:28:HIS:C	2:EF:43:GLN:HE21	2.26	0.44
2:FB:332:ASN:CG	7:5C:909:ASN:OD1	2.61	0.44
2:FB:391:ARG:HA	2:FB:391:ARG:HD2	1.79	0.44
2:FD:20:PHE:O	2:FD:24:ILE:HG12	2.18	0.44
2:FD:28:HIS:C	2:FD:43:GLN:HE21	2.26	0.44
2:FD:177:ASP:OD1	1:FE:353:VAL:HG12	1.87	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FD:178:THR:HA	1:FE:352:LYS:CD	2.48	0.44
1:FE:19:ALA:HA	1:FE:22:GLU:OE1	2.17	0.44
2:FF:20:PHE:O	2:FF:24:ILE:HG12	2.18	0.44
1:HA:19:ALA:HA	1:HA:22:GLU:OE1	2.17	0.44
1:HC:222:PRO:HD2	2:HD:324:LYS:HD3	1.99	0.44
1:HE:370:LYS:NZ	10:8U:16:UNK:CB	2.81	0.44
2:HF:20:PHE:O	2:HF:24:ILE:HG12	2.18	0.44
2:IB:28:HIS:C	2:IB:43:GLN:HE21	2.26	0.44
2:IB:391:ARG:HA	2:IB:391:ARG:HD2	1.79	0.44
1:IC:340:THR:HG23	1:IC:341:ILE:HG13	1.99	0.44
2:ID:178:THR:HA	1:IE:352:LYS:CD	2.48	0.44
1:IE:340:THR:HG23	1:IE:341:ILE:HG13	1.99	0.44
2:IF:424:GLN:HE21	7:5B:1413:GLN:CG	2.25	0.44
2:JB:28:HIS:C	2:JB:43:GLN:HE21	2.26	0.44
1:JC:222:PRO:HG3	2:JD:324:LYS:HD3	1.95	0.44
2:KB:415:MET:O	2:KB:419:VAL:HG23	2.18	0.44
1:KC:84:ARG:CZ	1:LC:283:HIS:NE2	2.81	0.44
2:KD:415:MET:O	2:KD:419:VAL:HG23	2.18	0.44
13:KD:501:GDP:C8	1:KE:248:LEU:CD1	3.00	0.44
2:LB:340:TYR:CB	4:2C:147:PHE:CB	2.77	0.44
1:LC:19:ALA:HA	1:LC:22:GLU:OE1	2.17	0.44
1:LC:340:THR:HG23	1:LC:341:ILE:HG13	1.99	0.44
1:LC:407:TRP:CE3	2:LD:255:VAL:CG1	2.76	0.44
2:LD:177:ASP:O	1:LE:352:LYS:HA	2.17	0.44
2:LD:415:MET:O	2:LD:419:VAL:HG23	2.18	0.44
1:LE:19:ALA:HA	1:LE:22:GLU:OE1	2.17	0.44
2:LF:20:PHE:O	2:LF:24:ILE:HG12	2.18	0.44
2:LF:415:MET:O	2:LF:419:VAL:HG23	2.18	0.44
2:MB:78:ALA:HB1	6:4A:178:HIS:NE2	2.31	0.44
2:MB:262:ARG:NH1	2:MB:421:GLU:OE1	2.50	0.44
2:MD:28:HIS:C	2:MD:43:GLN:HE21	2.26	0.44
4:2C:129:GLU:OE2	4:2C:135:LYS:HD3	2.17	0.44
6:4A:222:PRO:HG2	6:4A:235:ALA:O	2.18	0.44
6:4B:116:THR:HA	6:4B:119:ASN:ND2	2.32	0.44
6:4B:222:PRO:HG2	6:4B:235:ALA:O	2.18	0.44
6:4B:260:ARG:HH22	6:4B:295:LYS:CE	2.31	0.44
6:4C:260:ARG:HH22	6:4C:295:LYS:CE	2.31	0.44
6:4D:222:PRO:HG2	6:4D:235:ALA:O	2.18	0.44
7:5A:1436:ARG:HG3	7:5A:1436:ARG:NH1	2.30	0.44
7:5B:1589:LEU:HG	7:5B:1595:LEU:HD12	1.99	0.44
7:5C:1120:ASP:HB2	7:5C:1125:LEU:HD12	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1373:PHE:HA	7:5C:1376:GLN:HG3	1.98	0.44
7:5C:1532:PRO:HG2	7:5C:1608:ASN:HD21	1.83	0.44
1:AA:19:ALA:HA	1:AA:22:GLU:OE1	2.17	0.44
2:AD:280:GLN:HE22	6:4C:141:LYS:HB3	1.77	0.44
2:AD:390:ARG:HD2	1:AE:439:THR:HG21	2.00	0.44
2:BF:415:MET:O	2:BF:419:VAL:HG23	2.18	0.44
1:CA:394:LYS:NZ	2:CB:347:ASN:OD1	2.51	0.44
1:CC:68:LEU:HD22	1:CC:153:LEU:HD11	2.00	0.44
1:CC:221:ARG:NH1	2:CD:324:LYS:N	2.66	0.44
2:CF:415:MET:O	2:CF:419:VAL:HG23	2.18	0.44
1:DC:268:MET:HB2	1:DC:379:SER:O	2.17	0.44
1:DE:68:LEU:HD22	1:DE:153:LEU:HD11	2.00	0.44
1:DE:100:ALA:HB1	2:DF:252:LYS:CA	2.48	0.44
1:DE:268:MET:HB2	1:DE:379:SER:O	2.17	0.44
2:EB:28:HIS:C	2:EB:43:GLN:HE21	2.26	0.44
2:EB:55:THR:HG23	2:FB:284:LEU:H	1.81	0.44
1:EC:179:THR:O	2:ED:350:LYS:HA	2.17	0.44
2:EF:157:GLU:HA	7:5B:945:LYS:HZ1	1.80	0.44
2:EF:415:MET:O	2:EF:419:VAL:HG23	2.18	0.44
1:FA:96:LYS:HE2	2:FB:1:MET:HE3	2.00	0.44
2:FB:106:TYR:HA	7:5C:1294:ILE:HG21	1.25	0.44
2:FD:226:ASN:ND2	13:FD:502:GDP:HN1	2.12	0.44
2:FF:28:HIS:C	2:FF:43:GLN:HE21	2.26	0.44
2:FF:106:TYR:HA	7:5B:1294:ILE:HG21	1.28	0.44
2:GB:222:TYR:HD2	1:GC:247:ALA:HB1	1.82	0.44
2:HB:415:MET:O	2:HB:419:VAL:HG23	2.18	0.44
1:HC:340:THR:HG23	1:HC:341:ILE:HG13	1.99	0.44
13:HD:501:GDP:C8	1:HE:248:LEU:CD1	3.00	0.44
1:HE:68:LEU:HD22	1:HE:153:LEU:HD11	2.00	0.44
1:IC:409:VAL:HG21	7:5A:1421:PHE:HZ	1.82	0.44
2:JB:415:MET:O	2:JB:419:VAL:HG23	2.18	0.44
2:JF:28:HIS:C	2:JF:43:GLN:HE21	2.26	0.44
2:KD:125:GLU:CD	2:LD:336:LYS:NZ	2.54	0.44
2:KD:178:THR:HA	1:KE:352:LYS:CD	2.48	0.44
2:KD:179:VAL:HG23	1:KE:258:ASN:HA	1.97	0.44
1:LA:268:MET:HB2	1:LA:379:SER:O	2.17	0.44
2:LB:20:PHE:O	2:LB:24:ILE:HG12	2.18	0.44
2:LB:28:HIS:C	2:LB:43:GLN:HE21	2.26	0.44
2:LB:262:ARG:NH1	2:LB:421:GLU:OE1	2.50	0.44
1:LC:68:LEU:HD22	1:LC:153:LEU:HD11	2.00	0.44
2:LD:20:PHE:O	2:LD:24:ILE:HG12	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LE:268:MET:HB2	1:LE:379:SER:O	2.17	0.44
2:LF:28:HIS:C	2:LF:43:GLN:HE21	2.26	0.44
2:MB:28:HIS:C	2:MB:43:GLN:HE21	2.26	0.44
1:MC:101:ASN:HA	1:MC:144:GLY:H	1.83	0.44
4:2A:129:GLU:OE2	4:2A:135:LYS:HD3	2.18	0.44
4:2B:112:GLU:OE2	4:2B:123:LYS:NZ	2.50	0.44
6:4D:145:PHE:O	6:4D:145:PHE:CD2	2.70	0.44
6:4D:260:ARG:HH22	6:4D:295:LYS:CE	2.31	0.44
7:5A:1152:GLU:CD	8:6A:66:ARG:NH2	2.76	0.44
7:5A:1577:LYS:HA	7:5A:1577:LYS:HD2	1.80	0.44
7:5A:1589:LEU:HG	7:5A:1595:LEU:HD12	1.99	0.44
7:5B:1119:LEU:CD1	7:5B:1135:TYR:CE1	3.00	0.44
7:5C:1246:LEU:HG	9:7F:12:GLU:CG	2.48	0.44
7:5C:1400:GLU:N	7:5C:1400:GLU:OE2	2.51	0.44
7:5C:1562:LEU:H	7:5C:1562:LEU:CD1	2.11	0.44
7:5C:1572:LEU:HG	7:5C:1576:ILE:HD11	1.93	0.44
8:6A:64:LEU:HG	8:6A:247:ILE:CD1	2.48	0.44
8:6B:64:LEU:HG	8:6B:247:ILE:CD1	2.48	0.44
9:7E:39:GLY:HA3	9:7F:43:LEU:CD2	2.47	0.44
2:AB:390:ARG:HD2	1:AC:439:THR:HG21	2.00	0.44
1:AC:100:ALA:HB1	2:AD:252:LYS:CA	2.47	0.44
2:AF:415:MET:O	2:AF:419:VAL:HG23	2.18	0.44
2:BF:28:HIS:C	2:BF:43:GLN:HE21	2.26	0.44
1:CA:68:LEU:HD22	1:CA:153:LEU:HD11	2.00	0.44
2:CD:415:MET:O	2:CD:419:VAL:HG23	2.18	0.44
1:CE:68:LEU:HD22	1:CE:153:LEU:HD11	2.00	0.44
2:CF:262:ARG:NH1	2:CF:421:GLU:OE1	2.50	0.44
2:FB:415:MET:O	2:FB:419:VAL:HG23	2.18	0.44
2:FF:391:ARG:HD2	2:FF:391:ARG:HA	1.79	0.44
2:GB:390:ARG:HD2	1:GC:439:THR:HG21	2.00	0.44
2:GF:412:GLU:OE2	7:5B:1323:MET:HE2	2.15	0.44
2:HB:390:ARG:HD2	1:HC:439:THR:HG21	2.00	0.44
2:HD:178:THR:HA	1:HE:352:LYS:CD	2.48	0.44
1:HE:224:TYR:CE2	2:HF:246:LEU:HD11	2.46	0.44
1:IC:100:ALA:HB1	2:ID:252:LYS:CA	2.47	0.44
1:IC:101:ASN:HA	1:IC:144:GLY:H	1.83	0.44
2:ID:424:GLN:HE22	7:5A:1413:GLN:NE2	0.56	0.44
2:JB:390:ARG:HD2	1:JC:439:THR:HG21	2.00	0.44
1:JC:101:ASN:HA	1:JC:144:GLY:H	1.83	0.44
1:JE:268:MET:HB2	1:JE:379:SER:O	2.17	0.44
1:KA:88:HIS:HD1	1:KA:90:GLU:H	1.64	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:101:ASN:HA	1:KC:144:GLY:H	1.83	0.44
2:KD:77:ARG:CD	2:LD:281:TYR:CE2	3.01	0.44
1:KE:88:HIS:HD1	1:KE:90:GLU:H	1.64	0.44
1:KE:101:ASN:HA	1:KE:144:GLY:H	1.83	0.44
1:KE:268:MET:HB2	1:KE:379:SER:O	2.17	0.44
2:KF:415:MET:O	2:KF:419:VAL:HG23	2.18	0.44
1:LA:68:LEU:HD22	1:LA:153:LEU:HD11	2.00	0.44
1:LA:176:GLN:NE2	4:2C:42:PHE:HB2	2.25	0.44
1:LC:268:MET:HB2	1:LC:379:SER:O	2.17	0.44
2:LD:28:HIS:C	2:LD:43:GLN:HE21	2.26	0.44
1:LE:68:LEU:HD22	1:LE:153:LEU:HD11	2.00	0.44
2:MB:20:PHE:O	2:MB:24:ILE:HG12	2.18	0.44
2:MD:20:PHE:O	2:MD:24:ILE:HG12	2.18	0.44
1:ME:101:ASN:HA	1:ME:144:GLY:H	1.83	0.44
2:MF:20:PHE:O	2:MF:24:ILE:HG12	2.18	0.44
5:3B:64:ASN:CG	5:3B:93:LYS:HE2	2.43	0.44
6:4A:116:THR:HA	6:4A:119:ASN:ND2	2.32	0.44
6:4D:230:TYR:CD2	6:4D:230:TYR:N	2.74	0.44
6:4D:263:CYS:HB3	6:4D:265:TYR:CE1	2.53	0.44
7:5A:1400:GLU:N	7:5A:1400:GLU:OE2	2.51	0.44
7:5A:1532:PRO:HG2	7:5A:1608:ASN:ND2	2.33	0.44
7:5B:1400:GLU:N	7:5B:1400:GLU:OE2	2.51	0.44
7:5B:1532:PRO:HG2	7:5B:1608:ASN:ND2	2.33	0.44
7:5B:1535:ILE:CG1	7:5B:1574:ILE:C	2.86	0.44
7:5C:1283:ALA:O	7:5C:1284:PHE:CG	2.70	0.44
2:AD:322:SER:N	6:4C:156:PHE:CD2	2.85	0.43
2:BB:212:PHE:CE2	1:BC:326:LYS:HB2	2.53	0.43
2:BD:28:HIS:C	2:BD:43:GLN:HE21	2.26	0.43
1:CA:19:ALA:HA	1:CA:22:GLU:OE1	2.17	0.43
2:CD:262:ARG:NH1	2:CD:421:GLU:OE1	2.50	0.43
1:CE:171:ILE:HG23	1:CE:204:LEU:O	2.18	0.43
1:DA:19:ALA:HA	1:DA:22:GLU:OE1	2.17	0.43
1:DA:68:LEU:HD22	1:DA:153:LEU:HD11	2.00	0.43
1:DC:68:LEU:HD22	1:DC:153:LEU:HD11	2.00	0.43
2:EB:208:TYR:CE2	1:EC:326:LYS:HB3	2.52	0.43
2:ED:212:PHE:HE2	1:EE:326:LYS:HB2	1.82	0.43
2:ED:415:MET:O	2:ED:419:VAL:HG23	2.18	0.43
1:EE:68:LEU:HD22	1:EE:153:LEU:HD11	2.00	0.43
2:FD:384:GLN:HB3	1:FE:348:PRO:HG2	1.98	0.43
1:HA:68:LEU:HD22	1:HA:153:LEU:HD11	2.00	0.43
2:HD:99:ASN:HA	2:HD:142:GLY:H	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HD:362:LYS:HD3	10:8T:36:UNK:O	2.18	0.43
2:HD:415:MET:O	2:HD:419:VAL:HG23	2.18	0.43
1:HE:340:THR:HG23	1:HE:341:ILE:HG13	1.99	0.43
1:IA:19:ALA:HA	1:IA:22:GLU:OE1	2.17	0.43
1:IA:224:TYR:CE2	2:IB:246:LEU:HD11	2.44	0.43
1:IA:340:THR:HG23	1:IA:341:ILE:HG13	1.99	0.43
1:IE:248:LEU:HD12	1:IE:248:LEU:HA	1.89	0.43
1:JA:19:ALA:HA	1:JA:22:GLU:OE1	2.17	0.43
1:JC:68:LEU:HD22	1:JC:153:LEU:HD11	2.00	0.43
2:JD:99:ASN:HA	2:JD:142:GLY:H	1.83	0.43
1:JE:68:LEU:HD22	1:JE:153:LEU:HD11	2.00	0.43
1:JE:89:PRO:HD3	1:KE:283:HIS:NE2	2.22	0.43
1:JE:101:ASN:HA	1:JE:144:GLY:H	1.83	0.43
1:JE:398:MET:SD	2:JF:345:ILE:CG1	2.92	0.43
1:KA:68:LEU:HD22	1:KA:153:LEU:HD11	2.00	0.43
1:KA:101:ASN:HA	1:KA:144:GLY:H	1.84	0.43
2:KB:178:THR:HA	1:KC:352:LYS:CD	2.48	0.43
1:KC:88:HIS:HD1	1:KC:90:GLU:H	1.65	0.43
1:KC:124:LYS:CD	1:LC:290:GLU:HA	2.47	0.43
2:KD:125:GLU:O	4:2A:39:ALA:N	2.50	0.43
1:KE:19:ALA:HA	1:KE:22:GLU:OE1	2.17	0.43
1:KE:68:LEU:HD22	1:KE:153:LEU:HD11	2.00	0.43
2:LB:99:ASN:HA	2:LB:142:GLY:H	1.83	0.43
2:LF:391:ARG:HA	2:LF:391:ARG:HD2	1.78	0.43
1:MC:268:MET:HB2	1:MC:379:SER:O	2.17	0.43
2:MF:391:ARG:HA	2:MF:391:ARG:HD2	1.79	0.43
2:MF:415:MET:O	2:MF:419:VAL:HG23	2.18	0.43
6:4A:263:CYS:HB3	6:4A:265:TYR:CE1	2.53	0.43
6:4B:263:CYS:HB3	6:4B:265:TYR:CE1	2.53	0.43
6:4C:193:MET:HE3	6:4C:193:MET:HB3	1.83	0.43
6:4C:222:PRO:HG2	6:4C:235:ALA:O	2.18	0.43
7:5A:1042:LEU:HD11	7:5A:1053:LYS:HD2	2.00	0.43
7:5A:1283:ALA:O	7:5A:1284:PHE:CG	2.70	0.43
7:5C:1042:LEU:HD11	7:5C:1053:LYS:HD2	2.00	0.43
7:5C:1126:PRO:CG	8:6C:246:TYR:HH	2.29	0.43
7:5C:1347:LEU:HD13	7:5C:1347:LEU:H	1.81	0.43
7:5C:1399:LYS:HB3	7:5C:1399:LYS:HE3	1.66	0.43
7:5C:1532:PRO:HG2	7:5C:1608:ASN:ND2	2.33	0.43
1:AA:181:VAL:HG21	2:AB:256:ASN:O	2.18	0.43
2:AD:99:ASN:HA	2:AD:142:GLY:H	1.84	0.43
2:AD:415:MET:O	2:AD:419:VAL:HG23	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:171:ILE:HG23	1:BA:204:LEU:O	2.18	0.43
2:BB:28:HIS:C	2:BB:43:GLN:HE21	2.26	0.43
2:BD:208:TYR:CD2	1:BE:326:LYS:HB3	2.53	0.43
1:CA:171:ILE:HG23	1:CA:204:LEU:O	2.18	0.43
1:CC:171:ILE:HG23	1:CC:204:LEU:O	2.18	0.43
1:DC:179:THR:O	2:DD:350:LYS:HA	2.18	0.43
2:EB:262:ARG:NH1	2:EB:421:GLU:OE1	2.50	0.43
2:ED:391:ARG:HA	2:ED:391:ARG:HD2	1.79	0.43
1:FA:221:ARG:HH11	2:FB:325:GLU:H	1.66	0.43
1:FC:401:LYS:HE3	1:FC:401:LYS:HB2	1.74	0.43
2:FF:106:TYR:O	7:5B:1298:LYS:CD	2.65	0.43
1:GC:171:ILE:HG23	1:GC:204:LEU:O	2.18	0.43
13:GD:501:GDP:C8	1:GE:248:LEU:CD1	3.00	0.43
1:HC:68:LEU:HD22	1:HC:153:LEU:HD11	2.00	0.43
2:HD:28:HIS:C	2:HD:43:GLN:HE21	2.26	0.43
2:HD:261:PRO:CG	5:3C:337:ARG:NH2	2.68	0.43
1:HE:415:GLU:HG3	5:3A:235:LEU:CG	2.47	0.43
2:HF:28:HIS:C	2:HF:43:GLN:HE21	2.26	0.43
1:IA:101:ASN:HA	1:IA:144:GLY:H	1.84	0.43
1:IE:101:ASN:HA	1:IE:144:GLY:H	1.83	0.43
1:JA:68:LEU:HD22	1:JA:153:LEU:HD11	2.00	0.43
1:JA:181:VAL:HG21	2:JB:256:ASN:O	2.18	0.43
2:JD:176:SER:HG	1:JE:349:THR:HG1	1.61	0.43
1:KC:68:LEU:HD22	1:KC:153:LEU:HD11	2.00	0.43
2:KD:86:ARG:CG	2:LD:288:GLU:CD	2.91	0.43
2:KD:212:PHE:CZ	1:KE:326:LYS:CE	2.98	0.43
1:KE:248:LEU:HD12	1:KE:248:LEU:HA	1.89	0.43
1:LA:176:GLN:HE22	4:2C:42:PHE:HB2	1.80	0.43
2:LD:19:LYS:NZ	6:4B:217:ASN:O	2.49	0.43
2:LD:99:ASN:HA	2:LD:142:GLY:H	1.83	0.43
1:LE:89:PRO:CB	1:ME:280:LYS:HZ2	2.31	0.43
1:MA:101:ASN:HA	1:MA:144:GLY:H	1.84	0.43
2:MD:415:MET:O	2:MD:419:VAL:HG23	2.18	0.43
4:2A:112:GLU:OE2	4:2A:123:LYS:NZ	2.50	0.43
4:2C:112:GLU:OE2	4:2C:123:LYS:NZ	2.50	0.43
6:4C:97:GLN:HA	6:4C:98:PRO:HD3	1.58	0.43
6:4C:116:THR:HA	6:4C:119:ASN:ND2	2.32	0.43
6:4C:263:CYS:HB3	6:4C:265:TYR:CE1	2.53	0.43
7:5A:1119:LEU:CD1	7:5A:1135:TYR:CE1	3.00	0.43
7:5B:1042:LEU:HD11	7:5B:1053:LYS:HD2	2.00	0.43
7:5B:1283:ALA:O	7:5B:1284:PHE:CG	2.70	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1424:GLN:NE2	7:5B:1424:GLN:C	2.73	0.43
7:5B:1455:LYS:HD2	7:5B:1455:LYS:HA	1.42	0.43
7:5C:1442:GLN:CD	7:5C:1442:GLN:C	2.86	0.43
9:7C:18:VAL:HG12	9:7C:42:LEU:HD21	1.95	0.43
2:AB:99:ASN:HA	2:AB:142:GLY:H	1.84	0.43
1:AC:101:ASN:HA	1:AC:144:GLY:H	1.83	0.43
1:AE:68:LEU:HD22	1:AE:153:LEU:HD11	2.00	0.43
2:AF:99:ASN:HA	2:AF:142:GLY:H	1.84	0.43
1:BC:171:ILE:HG23	1:BC:204:LEU:O	2.18	0.43
1:CC:60:LYS:HD3	1:DC:283:HIS:CD2	2.53	0.43
1:CC:100:ALA:HB1	2:CD:252:LYS:CA	2.48	0.43
2:CD:179:VAL:HG22	1:CE:258:ASN:CB	2.48	0.43
2:DB:28:HIS:C	2:DB:43:GLN:HE21	2.26	0.43
2:DF:415:MET:O	2:DF:419:VAL:HG23	2.18	0.43
2:EB:55:THR:H	2:FB:283:ALA:HA	1.83	0.43
2:EB:415:MET:O	2:EB:419:VAL:HG23	2.18	0.43
2:FB:226:ASN:ND2	13:FB:502:GDP:HN1	2.12	0.43
1:FC:68:LEU:HD22	1:FC:153:LEU:HD11	2.00	0.43
2:FD:415:MET:O	2:FD:419:VAL:HG23	2.18	0.43
1:GA:404:PHE:CE2	2:GB:345:ILE:HD11	2.54	0.43
2:GF:28:HIS:C	2:GF:43:GLN:HE21	2.26	0.43
2:HB:99:ASN:HA	2:HB:142:GLY:H	1.84	0.43
2:HB:178:THR:HA	1:HC:352:LYS:CD	2.49	0.43
2:HB:226:ASN:ND2	13:HB:501:GDP:HN1	2.12	0.43
2:HD:68:LEU:HD12	2:HD:68:LEU:HA	1.90	0.43
2:HF:99:ASN:HA	2:HF:142:GLY:H	1.84	0.43
1:IA:404:PHE:CE2	2:IB:345:ILE:HD11	2.54	0.43
2:IB:178:THR:HA	1:IC:352:LYS:CD	2.49	0.43
2:IB:390:ARG:HD2	1:IC:439:THR:HG21	2.00	0.43
2:IF:86:ARG:HD3	2:JF:281:TYR:HB3	1.37	0.43
1:JA:101:ASN:HA	1:JA:144:GLY:H	1.84	0.43
2:JB:99:ASN:HA	2:JB:142:GLY:H	1.84	0.43
2:JD:20:PHE:O	2:JD:24:ILE:HG12	2.18	0.43
2:JD:178:THR:HA	1:JE:352:LYS:CD	2.48	0.43
2:JF:20:PHE:O	2:JF:24:ILE:HG12	2.18	0.43
2:JF:68:LEU:HD12	2:JF:68:LEU:HA	1.90	0.43
2:JF:99:ASN:HA	2:JF:142:GLY:H	1.84	0.43
1:KA:124:LYS:HD2	1:LA:290:GLU:HA	1.98	0.43
1:KA:401:LYS:HE3	1:KA:401:LYS:HB2	1.74	0.43
2:KD:159:TYR:HE2	4:2A:35:VAL:O	1.94	0.43
1:KE:359:PRO:CG	6:4B:299:TYR:CD2	2.90	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LB:19:LYS:NZ	6:4A:217:ASN:O	2.51	0.43
2:LF:99:ASN:HA	2:LF:142:GLY:H	1.84	0.43
1:MA:171:ILE:HG23	1:MA:204:LEU:O	2.18	0.43
2:MB:232:ALA:HB1	2:MB:268:ILE:HD12	2.00	0.43
1:MC:171:ILE:HG23	1:MC:204:LEU:O	2.18	0.43
1:MC:357:TYR:CE1	6:4A:185:ARG:NH1	2.85	0.43
2:MD:179:VAL:HG23	1:ME:258:ASN:HA	1.98	0.43
3:1C:33:ASP:HB3	3:1C:39:MET:SD	2.58	0.43
5:3A:64:ASN:CG	5:3A:93:LYS:HE2	2.43	0.43
5:3C:231:THR:N	5:3C:335:LYS:HD2	1.73	0.43
6:4C:161:LYS:HA	6:4C:161:LYS:HD3	1.78	0.43
7:5A:1271:ILE:HD13	9:7A:23:LEU:HD12	2.00	0.43
7:5B:1442:GLN:CD	7:5B:1442:GLN:C	2.86	0.43
7:5C:1119:LEU:CD1	7:5C:1135:TYR:CE1	3.00	0.43
8:6A:14:ARG:NH2	8:6A:89:ILE:O	2.52	0.43
8:6C:64:LEU:HG	8:6C:247:ILE:CD1	2.48	0.43
9:7E:18:VAL:HG12	9:7E:42:LEU:HD21	1.95	0.43
1:AA:401:LYS:HE3	1:AA:401:LYS:HB2	1.74	0.43
2:AB:232:ALA:HB1	2:AB:268:ILE:HD12	2.00	0.43
2:AD:212:PHE:CZ	1:AE:326:LYS:CE	2.98	0.43
2:AD:232:ALA:HB1	2:AD:268:ILE:HD12	2.00	0.43
13:AD:501:GDP:C8	1:AE:248:LEU:CD1	3.00	0.43
1:AE:101:ASN:HA	1:AE:144:GLY:H	1.83	0.43
1:BC:404:PHE:CE2	2:BD:345:ILE:HD11	2.54	0.43
1:CC:19:ALA:HA	1:CC:22:GLU:OE1	2.17	0.43
1:CC:407:TRP:CZ3	2:CD:255:VAL:O	2.32	0.43
2:CD:99:ASN:HA	2:CD:142:GLY:H	1.84	0.43
1:CE:394:LYS:NZ	2:CF:347:ASN:OD1	2.52	0.43
2:CF:99:ASN:HA	2:CF:142:GLY:H	1.84	0.43
2:DB:212:PHE:CE2	1:DC:326:LYS:HB2	2.52	0.43
1:EA:68:LEU:HD22	1:EA:153:LEU:HD11	2.00	0.43
1:EA:426:ALA:CB	7:5C:833:PHE:CG	2.97	0.43
2:EB:54:ALA:HB2	2:FB:281:TYR:O	2.16	0.43
2:EB:390:ARG:CD	1:EC:439:THR:HG21	2.48	0.43
1:EC:68:LEU:HD22	1:EC:153:LEU:HD11	2.00	0.43
1:EC:430:LYS:HZ2	7:5A:834:ASN:HB2	1.79	0.43
1:FA:423:GLU:HG3	7:5C:1256:ARG:HH21	1.83	0.43
2:FB:99:ASN:HA	2:FB:142:GLY:H	1.84	0.43
1:FE:68:LEU:HD22	1:FE:153:LEU:HD11	2.00	0.43
1:FE:401:LYS:CE	2:FF:344:TRP:CZ3	2.80	0.43
1:GA:171:ILE:HG23	1:GA:204:LEU:O	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:181:VAL:HG21	2:GB:256:ASN:O	2.18	0.43
2:GD:28:HIS:C	2:GD:43:GLN:HE21	2.26	0.43
2:HB:28:HIS:C	2:HB:43:GLN:HE21	2.26	0.43
2:HD:390:ARG:HD2	1:HE:439:THR:HG21	2.00	0.43
2:HF:415:MET:O	2:HF:419:VAL:HG23	2.18	0.43
1:IE:60:LYS:HZ3	1:JE:283:HIS:CD2	2.31	0.43
1:IE:164:LYS:HA	1:IE:164:LYS:HD3	1.85	0.43
1:JA:278:ALA:O	10:8Y:18:UNK:O	2.37	0.43
2:JB:20:PHE:O	2:JB:24:ILE:HG12	2.18	0.43
2:JB:55:THR:HG21	2:KB:362:LYS:HZ3	0.60	0.43
2:JB:86:ARG:NH1	2:KB:280:GLN:CB	2.64	0.43
2:JB:391:ARG:HA	2:JB:391:ARG:HD2	1.78	0.43
1:JC:124:LYS:HD3	1:KC:284:GLU:OE1	2.18	0.43
1:JC:171:ILE:HG23	1:JC:204:LEU:O	2.18	0.43
2:JD:390:ARG:HD2	1:JE:439:THR:HG21	2.00	0.43
1:JE:171:ILE:HG23	1:JE:204:LEU:O	2.18	0.43
2:JF:226:ASN:ND2	13:JF:501:GDP:HN1	2.12	0.43
1:KA:404:PHE:CE2	2:KB:345:ILE:HD11	2.54	0.43
2:KB:390:ARG:HD2	1:KC:439:THR:HG21	2.00	0.43
1:KC:19:ALA:HA	1:KC:22:GLU:OE1	2.17	0.43
1:KC:222:PRO:HD2	2:KD:324:LYS:HD3	1.99	0.43
1:KC:359:PRO:CG	6:4A:299:TYR:CE2	3.02	0.43
2:KD:276:ARG:HD3	6:4B:270:GLY:HA3	1.30	0.43
2:KF:226:ASN:ND2	13:KF:501:GDP:HN1	2.12	0.43
2:LD:180:VAL:HG12	1:LE:258:ASN:OD1	2.19	0.43
11:MA:501:GTP:O1G	2:MB:252:LYS:NZ	2.42	0.43
2:MD:232:ALA:HB1	2:MD:268:ILE:HD12	2.00	0.43
1:ME:179:THR:O	2:MF:350:LYS:HA	2.17	0.43
1:ME:282:TYR:HD2	6:4B:104:ARG:CZ	1.98	0.43
6:4B:239:LEU:HD13	6:4B:239:LEU:HA	1.83	0.43
7:5A:1535:ILE:CG1	7:5A:1574:ILE:C	2.86	0.43
7:5B:1064:LYS:C	7:5B:1066:GLY:N	2.76	0.43
7:5C:943:LEU:HD22	7:5C:1030:PHE:HE2	1.84	0.43
8:6B:14:ARG:NH2	8:6B:89:ILE:O	2.52	0.43
8:6C:14:ARG:NH2	8:6C:89:ILE:O	2.52	0.43
1:AC:68:LEU:HD22	1:AC:153:LEU:HD11	2.00	0.43
2:AD:222:TYR:CE2	1:AE:325:PRO:HG2	2.54	0.43
1:AE:342:GLN:NE2	3:1A:55:HIS:ND1	2.45	0.43
2:AF:232:ALA:HB1	2:AF:268:ILE:HD12	2.00	0.43
1:BE:171:ILE:HG23	1:BE:204:LEU:O	2.19	0.43
2:CB:99:ASN:HA	2:CB:142:GLY:H	1.84	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:262:ARG:NH1	2:CB:421:GLU:OE1	2.50	0.43
1:CC:398:MET:SD	2:CD:345:ILE:CG1	2.93	0.43
2:CD:212:PHE:CE2	1:CE:326:LYS:HB2	2.54	0.43
2:CD:397:TRP:CB	1:CE:256:GLN:HE22	2.21	0.43
1:CE:19:ALA:HA	1:CE:22:GLU:OE1	2.17	0.43
2:DD:28:HIS:C	2:DD:43:GLN:HE21	2.26	0.43
2:DF:28:HIS:C	2:DF:43:GLN:HE21	2.26	0.43
2:DF:60:VAL:HG23	2:EF:281:TYR:CE1	2.53	0.43
1:EE:176:GLN:O	2:EF:347:ASN:ND2	2.41	0.43
2:EF:86:ARG:HD3	2:FF:281:TYR:HB3	1.76	0.43
2:FB:180:VAL:CG1	1:FC:258:ASN:OD1	2.67	0.43
1:FC:222:PRO:HG2	2:FD:324:LYS:HB2	1.99	0.43
1:FE:71:GLU:CD	2:FF:247:ASN:HD22	2.25	0.43
2:FF:415:MET:O	2:FF:419:VAL:HG23	2.18	0.43
2:GB:179:VAL:HG23	1:GC:258:ASN:HA	2.00	0.43
2:GD:390:ARG:HD2	1:GE:439:THR:HG21	2.00	0.43
1:GE:171:ILE:HG23	1:GE:204:LEU:O	2.19	0.43
2:HF:261:PRO:CG	5:3A:337:ARG:NH2	2.61	0.43
1:IA:171:ILE:HG23	1:IA:204:LEU:O	2.18	0.43
1:IC:171:ILE:HG23	1:IC:204:LEU:O	2.18	0.43
1:JA:171:ILE:HG23	1:JA:204:LEU:O	2.19	0.43
1:JC:100:ALA:HB1	2:JD:252:LYS:CA	2.47	0.43
1:KA:171:ILE:HG23	1:KA:204:LEU:O	2.18	0.43
2:KB:232:ALA:HB1	2:KB:268:ILE:HD12	2.00	0.43
1:KC:86:LEU:C	1:LC:283:HIS:O	2.61	0.43
2:KD:390:ARG:HD2	1:KE:439:THR:HG21	2.00	0.43
2:KF:232:ALA:HB1	2:KF:268:ILE:HD12	2.00	0.43
1:LA:101:ASN:HA	1:LA:144:GLY:H	1.84	0.43
2:LD:295:ASP:OD1	4:2A:150:GLN:OE1	2.36	0.43
2:LF:55:THR:HG22	2:MF:283:ALA:HB1	1.95	0.43
1:MA:268:MET:HB2	1:MA:379:SER:O	2.17	0.43
2:MB:208:TYR:OH	1:MC:325:PRO:HB2	2.18	0.43
2:MB:415:MET:O	2:MB:419:VAL:HG23	2.18	0.43
1:MC:372:MET:CE	6:4A:96:VAL:CB	2.95	0.43
1:ME:171:ILE:HG23	1:ME:204:LEU:O	2.19	0.43
2:MF:232:ALA:HB1	2:MF:268:ILE:HD12	2.00	0.43
4:2A:164:ARG:NH1	4:2A:164:ARG:CG	2.73	0.43
4:2B:15:GLU:C	4:2B:19:MET:HG2	2.40	0.43
4:2C:164:ARG:NH1	4:2C:164:ARG:CG	2.73	0.43
6:4D:258:ASP:O	6:4D:262:ASN:HB2	2.18	0.43
7:5A:1442:GLN:CD	7:5A:1442:GLN:C	2.86	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:836:ARG:NH2	7:5B:837:ASP:HB3	2.32	0.43
7:5B:1577:LYS:HA	7:5B:1577:LYS:HD2	1.80	0.43
7:5C:836:ARG:NH2	7:5C:837:ASP:HB3	2.32	0.43
7:5C:1392:LEU:C	7:5C:1392:LEU:CD1	2.89	0.43
1:AA:68:LEU:HD22	1:AA:153:LEU:HD11	2.00	0.43
1:AA:101:ASN:HA	1:AA:144:GLY:H	1.83	0.43
2:AB:415:MET:O	2:AB:419:VAL:HG23	2.18	0.43
1:BA:68:LEU:HD22	1:BA:153:LEU:HD11	2.00	0.43
2:BB:232:ALA:HB1	2:BB:268:ILE:HD12	2.00	0.43
1:CA:60:LYS:HD3	1:DA:283:HIS:HD2	1.84	0.43
1:CE:282:TYR:CE2	10:8F:18:UNK:HA	2.48	0.43
2:DD:415:MET:O	2:DD:419:VAL:HG23	2.18	0.43
2:EB:212:PHE:HE2	1:EC:326:LYS:HB2	1.83	0.43
2:ED:20:PHE:O	2:ED:24:ILE:HG12	2.18	0.43
2:ED:220:PRO:HD3	1:EE:326:LYS:HE2	1.97	0.43
2:EF:20:PHE:O	2:EF:24:ILE:HG12	2.18	0.43
2:FB:73:MET:CE	2:FB:92:PHE:HB3	2.49	0.43
2:FD:99:ASN:HA	2:FD:142:GLY:H	1.84	0.43
2:FF:99:ASN:HA	2:FF:142:GLY:H	1.84	0.43
2:GB:28:HIS:C	2:GB:43:GLN:HE21	2.26	0.43
2:GD:222:TYR:CE2	1:GE:325:PRO:HG2	2.54	0.43
1:HC:101:ASN:HA	1:HC:144:GLY:H	1.83	0.43
1:HE:60:LYS:HZ2	1:IE:283:HIS:CE1	2.36	0.43
1:IA:68:LEU:HD22	1:IA:153:LEU:HD11	2.00	0.43
2:IB:415:MET:O	2:IB:419:VAL:HG23	2.18	0.43
2:ID:390:ARG:HD2	1:IE:439:THR:HG21	2.00	0.43
1:IE:171:ILE:HG23	1:IE:204:LEU:O	2.19	0.43
2:IF:391:ARG:HA	2:IF:391:ARG:HD2	1.79	0.43
2:JF:232:ALA:HB1	2:JF:268:ILE:HD12	2.00	0.43
2:KB:77:ARG:CD	2:LB:281:TYR:CE2	3.02	0.43
1:KC:171:ILE:HG23	1:KC:204:LEU:O	2.18	0.43
2:KD:222:TYR:CE2	1:KE:325:PRO:HG2	2.54	0.43
2:KD:228:LEU:HG	6:4B:267:ILE:HD12	1.99	0.43
2:LB:232:ALA:HB1	2:LB:268:ILE:HD12	2.00	0.43
1:LC:101:ASN:HA	1:LC:144:GLY:H	1.84	0.43
1:LE:176:GLN:O	2:LF:347:ASN:CG	2.61	0.43
1:MA:68:LEU:HD22	1:MA:153:LEU:HD11	2.00	0.43
2:MF:73:MET:CE	2:MF:92:PHE:HB3	2.49	0.43
5:3B:21:PHE:CG	5:3B:24:MET:HE2	2.52	0.43
5:3C:64:ASN:CG	5:3C:93:LYS:HE2	2.43	0.43
6:4C:97:GLN:HE21	6:4C:97:GLN:HB2	1.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4C:277:GLU:H	6:4C:277:GLU:HG3	1.57	0.43
6:4D:179:ARG:NH1	6:4D:179:ARG:HB3	2.34	0.43
7:5A:836:ARG:NH2	7:5A:837:ASP:HB3	2.32	0.43
7:5A:943:LEU:HD22	7:5A:1030:PHE:HE2	1.84	0.43
7:5A:1120:ASP:OD2	7:5A:1125:LEU:HB2	2.19	0.43
7:5B:841:VAL:HG23	8:6B:11:PRO:CG	2.49	0.43
7:5C:1120:ASP:OD2	7:5C:1125:LEU:HB2	2.19	0.43
9:7F:18:VAL:HG11	9:7F:42:LEU:HD22	2.00	0.43
2:BD:232:ALA:HB1	2:BD:268:ILE:HD12	2.00	0.43
2:CB:179:VAL:HG23	1:CC:258:ASN:HA	1.97	0.43
1:CE:401:LYS:HE3	1:CE:401:LYS:HB2	1.74	0.43
2:CF:20:PHE:O	2:CF:24:ILE:HG12	2.18	0.43
1:DE:171:ILE:HG23	1:DE:204:LEU:O	2.18	0.43
2:DF:73:MET:CE	2:DF:92:PHE:HB3	2.49	0.43
2:EB:20:PHE:O	2:EB:24:ILE:HG12	2.18	0.43
2:EB:125:GLU:C	7:5C:903:PHE:HE2	2.05	0.43
1:EE:62:VAL:CG2	1:FE:283:HIS:O	2.64	0.43
1:FA:68:LEU:HD22	1:FA:153:LEU:HD11	2.00	0.43
1:FA:210:TYR:CD1	2:FB:324:LYS:HD2	2.54	0.43
1:FA:248:LEU:HD12	1:FA:248:LEU:HA	1.89	0.43
2:FB:178:THR:HA	1:FC:352:LYS:CD	2.49	0.43
1:FC:422:ARG:NE	7:5A:1170:THR:C	2.77	0.43
2:FF:73:MET:CE	2:FF:92:PHE:HB3	2.49	0.43
1:GC:100:ALA:HB1	2:GD:252:LYS:CA	2.47	0.43
2:GD:178:THR:HA	1:GE:352:LYS:CD	2.48	0.43
2:GF:20:PHE:O	2:GF:24:ILE:HG12	2.18	0.43
2:GF:73:MET:CE	2:GF:92:PHE:HB3	2.49	0.43
1:HE:71:GLU:OE2	1:HE:73:THR:OG1	2.28	0.43
2:IB:220:PRO:HD2	1:IC:326:LYS:CE	2.44	0.43
1:IC:68:LEU:HD22	1:IC:153:LEU:HD11	2.00	0.43
1:IC:317:MET:HE2	1:IC:319:TYR:CE1	2.54	0.43
2:ID:222:TYR:CE2	1:IE:325:PRO:HG2	2.54	0.43
1:IE:317:MET:HE2	1:IE:319:TYR:CE1	2.54	0.43
2:IF:87:PRO:HD2	2:JF:281:TYR:CD2	2.52	0.43
2:JD:179:VAL:HG23	1:JE:258:ASN:HA	1.97	0.43
2:JD:222:TYR:CE2	1:JE:325:PRO:HG2	2.54	0.43
1:JE:322:ASP:OD1	1:JE:373:ARG:NH1	2.52	0.43
2:KD:20:PHE:O	2:KD:24:ILE:HG12	2.18	0.43
2:KD:226:ASN:ND2	13:KD:501:GDP:HN1	2.12	0.43
2:KD:232:ALA:HB1	2:KD:268:ILE:HD12	2.00	0.43
1:KE:171:ILE:HG23	1:KE:204:LEU:O	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:317:MET:HE2	1:KE:319:TYR:CE1	2.54	0.43
2:KF:20:PHE:O	2:KF:24:ILE:HG12	2.18	0.43
2:LB:220:PRO:HD2	1:LC:326:LYS:HE2	2.00	0.43
2:LD:232:ALA:HB1	2:LD:268:ILE:HD12	2.00	0.43
1:LE:71:GLU:OE2	1:LE:73:THR:OG1	2.28	0.43
1:LE:171:ILE:HG23	1:LE:204:LEU:O	2.18	0.43
1:MA:101:ASN:ND2	2:MB:252:LYS:HG3	2.10	0.43
2:MD:73:MET:CE	2:MD:92:PHE:HB3	2.49	0.43
6:4B:179:ARG:NH1	6:4B:179:ARG:HB3	2.34	0.43
6:4D:260:ARG:HH22	6:4D:295:LYS:HE2	1.82	0.43
7:5A:847:GLY:N	8:6A:7:ASP:OD1	2.37	0.43
7:5A:887:TYR:CD2	7:5A:1055:PHE:CD2	3.07	0.43
7:5A:1064:LYS:C	7:5A:1066:GLY:N	2.76	0.43
7:5A:1399:LYS:HB3	7:5A:1399:LYS:HE3	1.67	0.43
7:5A:1424:GLN:NE2	7:5A:1424:GLN:C	2.73	0.43
7:5B:887:TYR:CD2	7:5B:1055:PHE:CD2	3.07	0.43
7:5B:943:LEU:HD22	7:5B:1030:PHE:HE2	1.84	0.43
7:5B:1449:LEU:HD22	7:5B:1449:LEU:HA	1.75	0.43
7:5C:887:TYR:CD2	7:5C:1055:PHE:CD2	3.07	0.43
2:AB:28:HIS:C	2:AB:43:GLN:HE21	2.26	0.43
1:BC:100:ALA:HB1	2:BD:252:LYS:CA	2.49	0.43
2:CD:20:PHE:O	2:CD:24:ILE:HG12	2.18	0.43
1:CE:181:VAL:HG21	2:CF:256:ASN:O	2.19	0.43
2:DB:99:ASN:HA	2:DB:142:GLY:H	1.84	0.43
2:DD:99:ASN:HA	2:DD:142:GLY:H	1.84	0.43
1:DE:101:ASN:HA	1:DE:144:GLY:H	1.83	0.43
2:EB:55:THR:HG23	2:FB:284:LEU:N	2.33	0.43
2:EB:99:ASN:HA	2:EB:142:GLY:H	1.84	0.43
2:ED:99:ASN:HA	2:ED:142:GLY:H	1.84	0.43
1:FA:207:GLU:OE1	7:5C:915:PHE:CG	2.72	0.43
2:FB:391:ARG:CG	1:FC:346:TRP:CD1	2.85	0.43
1:FE:101:ASN:HA	1:FE:144:GLY:H	1.83	0.43
2:GB:20:PHE:O	2:GB:24:ILE:HG12	2.18	0.43
1:GC:401:LYS:HE3	1:GC:401:LYS:HB2	1.74	0.43
2:GD:20:PHE:O	2:GD:24:ILE:HG12	2.18	0.43
2:GF:416:ASN:HD22	7:5B:1327:LYS:HE3	1.81	0.43
1:HA:101:ASN:HA	1:HA:144:GLY:H	1.83	0.43
1:HA:317:MET:HE2	1:HA:319:TYR:CE1	2.54	0.43
1:HA:404:PHE:CE2	2:HB:345:ILE:HD11	2.54	0.43
2:HB:222:TYR:HD2	1:HC:247:ALA:HB1	1.82	0.43
1:HC:171:ILE:HG23	1:HC:204:LEU:O	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:181:VAL:HG21	2:IB:256:ASN:O	2.18	0.43
1:IA:317:MET:HE2	1:IA:319:TYR:CE1	2.54	0.43
2:ID:220:PRO:HD2	1:IE:326:LYS:CE	2.44	0.43
2:ID:220:PRO:HD2	1:IE:326:LYS:CG	2.44	0.43
2:ID:415:MET:O	2:ID:419:VAL:HG23	2.18	0.43
2:IF:232:ALA:HB1	2:IF:268:ILE:HD12	2.00	0.43
2:IF:415:MET:O	2:IF:419:VAL:HG23	2.18	0.43
2:JD:226:ASN:ND2	13:JD:501:GDP:HN1	2.12	0.43
2:JD:232:ALA:HB1	2:JD:268:ILE:HD12	2.00	0.43
1:JE:279:GLU:OE2	10:9A:21:UNK:O	2.36	0.43
1:KA:19:ALA:HA	1:KA:22:GLU:OE1	2.17	0.43
1:KA:85:GLN:CG	1:LA:283:HIS:HD2	2.29	0.43
2:KB:20:PHE:O	2:KB:24:ILE:HG12	2.18	0.43
2:KB:276:ARG:HH21	6:4A:265:TYR:HB2	1.78	0.43
1:LE:101:ASN:HA	1:LE:144:GLY:H	1.84	0.43
4:2A:15:GLU:C	4:2A:19:MET:HG2	2.40	0.43
5:3C:21:PHE:CG	5:3C:24:MET:HE2	2.52	0.43
6:4A:97:GLN:HE21	6:4A:97:GLN:HB2	1.49	0.43
6:4C:117:ARG:HA	6:4C:120:GLN:CD	2.43	0.43
6:4C:179:ARG:NH1	6:4C:179:ARG:HB3	2.34	0.43
6:4D:135:LEU:H	6:4D:135:LEU:HD23	1.83	0.43
6:4D:241:LYS:C	6:4D:241:LYS:CD	2.89	0.43
7:5A:1424:GLN:HE21	7:5A:1424:GLN:HA	1.84	0.43
7:5B:1120:ASP:OD2	7:5B:1125:LEU:HB2	2.19	0.43
7:5B:1424:GLN:HE21	7:5B:1424:GLN:HA	1.84	0.43
7:5C:826:LEU:CB	7:5C:840:GLY:O	2.66	0.43
7:5C:836:ARG:NH1	7:5C:836:ARG:HG3	2.32	0.43
7:5C:1460:ARG:HE	7:5C:1460:ARG:HB3	1.69	0.43
2:AD:20:PHE:O	2:AD:24:ILE:HG12	2.18	0.43
2:AD:28:HIS:C	2:AD:43:GLN:HE21	2.26	0.43
2:AD:178:THR:HA	1:AE:352:LYS:CD	2.48	0.43
2:AD:274:THR:O	6:4C:134:LEU:CD1	2.66	0.43
2:AF:20:PHE:O	2:AF:24:ILE:HG12	2.18	0.43
2:AF:28:HIS:C	2:AF:43:GLN:HE21	2.26	0.43
1:BC:68:LEU:HD22	1:BC:153:LEU:HD11	2.00	0.43
1:BC:101:ASN:HA	1:BC:144:GLY:H	1.84	0.43
1:BC:322:ASP:OD1	1:BC:373:ARG:NH1	2.52	0.43
1:BE:100:ALA:HB1	2:BF:252:LYS:CA	2.49	0.43
1:BE:101:ASN:HA	1:BE:144:GLY:H	1.84	0.43
2:CB:20:PHE:O	2:CB:24:ILE:HG12	2.18	0.43
1:CC:101:ASN:HA	1:CC:144:GLY:H	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:181:VAL:HG21	2:CD:256:ASN:O	2.19	0.43
1:CE:101:ASN:HA	1:CE:144:GLY:H	1.84	0.43
2:CF:232:ALA:HB1	2:CF:268:ILE:HD12	2.00	0.43
1:DA:322:ASP:OD1	1:DA:373:ARG:NH1	2.51	0.43
1:DA:356:ASN:OD1	1:DA:357:TYR:N	2.51	0.43
2:DB:177:ASP:CA	1:DC:353:VAL:HG12	2.49	0.43
2:DB:415:MET:O	2:DB:419:VAL:HG23	2.18	0.43
1:DC:101:ASN:HA	1:DC:144:GLY:H	1.83	0.43
1:DC:171:ILE:HG23	1:DC:204:LEU:O	2.19	0.43
1:DC:356:ASN:OD1	1:DC:357:TYR:N	2.51	0.43
2:DD:73:MET:CE	2:DD:92:PHE:HB3	2.49	0.43
2:DF:68:LEU:HD12	2:DF:68:LEU:HA	1.90	0.43
2:DF:99:ASN:HA	2:DF:142:GLY:H	1.84	0.43
1:EE:394:LYS:NZ	2:EF:347:ASN:OD1	2.52	0.43
2:EF:99:ASN:HA	2:EF:142:GLY:H	1.84	0.43
1:FA:171:ILE:HG23	1:FA:204:LEU:O	2.18	0.43
1:FC:101:ASN:HA	1:FC:144:GLY:H	1.83	0.43
2:FD:73:MET:CE	2:FD:92:PHE:HB3	2.49	0.43
1:GA:68:LEU:HD22	1:GA:153:LEU:HD11	2.00	0.43
2:GB:232:ALA:HB1	2:GB:268:ILE:HD12	2.00	0.43
2:GD:73:MET:CE	2:GD:92:PHE:HB3	2.49	0.43
2:GD:99:ASN:HA	2:GD:142:GLY:H	1.83	0.43
1:GE:317:MET:HE2	1:GE:319:TYR:CE1	2.54	0.43
2:GF:99:ASN:HA	2:GF:142:GLY:H	1.84	0.43
2:HB:73:MET:CE	2:HB:92:PHE:HB3	2.49	0.43
1:HC:317:MET:HE2	1:HC:319:TYR:CE1	2.54	0.43
2:HD:222:TYR:CE2	1:HE:325:PRO:HG2	2.54	0.43
1:HE:101:ASN:HA	1:HE:144:GLY:H	1.83	0.43
1:HE:171:ILE:HG23	1:HE:204:LEU:O	2.19	0.43
1:HE:317:MET:HE2	1:HE:319:TYR:CE1	2.54	0.43
2:IB:179:VAL:HG23	1:IC:258:ASN:HA	2.00	0.43
2:ID:20:PHE:O	2:ID:24:ILE:HG12	2.18	0.43
1:IE:68:LEU:HD22	1:IE:153:LEU:HD11	2.00	0.43
2:JB:73:MET:CE	2:JB:92:PHE:HB3	2.49	0.43
2:JB:232:ALA:HB1	2:JB:268:ILE:HD12	2.00	0.43
1:KA:181:VAL:HG21	2:KB:256:ASN:O	2.18	0.43
1:KA:317:MET:HE2	1:KA:319:TYR:CE1	2.54	0.43
1:KC:79:ARG:C	1:LC:280:LYS:CE	2.90	0.43
1:KC:317:MET:HE2	1:KC:319:TYR:CE1	2.54	0.43
2:KF:276:ARG:CZ	6:4D:265:TYR:HB2	2.47	0.43
2:LB:73:MET:CE	2:LB:92:PHE:HB3	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LC:171:ILE:HG23	1:LC:204:LEU:O	2.19	0.43
1:MA:279:GLU:OE1	6:4C:107:MET:CG	2.67	0.43
1:MA:317:MET:HE2	1:MA:319:TYR:CE1	2.54	0.43
2:MB:73:MET:CE	2:MB:92:PHE:HB3	2.49	0.43
1:MC:68:LEU:HD22	1:MC:153:LEU:HD11	2.00	0.43
1:MC:317:MET:HE2	1:MC:319:TYR:CE1	2.54	0.43
2:MD:111:GLU:CB	3:1B:62:SER:HA	2.49	0.43
3:1A:33:ASP:HB3	3:1A:39:MET:SD	2.58	0.43
4:2B:164:ARG:NH1	4:2B:164:ARG:CG	2.73	0.43
6:4A:117:ARG:HA	6:4A:120:GLN:CD	2.43	0.43
6:4B:230:TYR:CD2	6:4B:230:TYR:N	2.74	0.43
6:4B:258:ASP:O	6:4B:262:ASN:HB2	2.18	0.43
6:4B:260:ARG:HH22	6:4B:295:LYS:HE2	1.82	0.43
6:4C:113:ILE:HB	6:4C:117:ARG:NH2	2.34	0.43
7:5A:826:LEU:CB	7:5A:840:GLY:O	2.66	0.43
7:5A:836:ARG:NH1	7:5A:836:ARG:HG3	2.32	0.43
7:5A:841:VAL:N	8:6A:109:ILE:CD1	2.66	0.43
7:5B:872:GLU:CD	8:6B:90:ARG:NH1	2.77	0.43
7:5B:1399:LYS:HB3	7:5B:1399:LYS:HE3	1.67	0.43
7:5C:1445:LEU:HD13	7:5C:1445:LEU:HA	1.78	0.43
7:5C:1535:ILE:CG1	7:5C:1574:ILE:C	2.86	0.43
2:AB:20:PHE:O	2:AB:24:ILE:HG12	2.18	0.43
1:BA:101:ASN:HA	1:BA:144:GLY:H	1.84	0.43
2:BB:73:MET:CE	2:BB:92:PHE:HB3	2.49	0.43
2:BB:99:ASN:HA	2:BB:142:GLY:H	1.84	0.43
2:BD:73:MET:CE	2:BD:92:PHE:HB3	2.49	0.43
2:BD:99:ASN:HA	2:BD:142:GLY:H	1.84	0.43
2:BD:179:VAL:HG23	1:BE:258:ASN:HA	1.98	0.43
2:BF:73:MET:CE	2:BF:92:PHE:HB3	2.49	0.43
2:BF:232:ALA:HB1	2:BF:268:ILE:HD12	2.00	0.43
1:CA:101:ASN:HA	1:CA:144:GLY:H	1.84	0.43
2:CB:69:GLU:HA	2:CB:70:PRO:HD3	1.89	0.43
2:CB:73:MET:CE	2:CB:92:PHE:HB3	2.49	0.43
2:CD:73:MET:CE	2:CD:92:PHE:HB3	2.49	0.43
1:DA:171:ILE:HG23	1:DA:204:LEU:O	2.18	0.43
1:DE:356:ASN:OD1	1:DE:357:TYR:N	2.51	0.43
2:EB:73:MET:CE	2:EB:92:PHE:HB3	2.49	0.43
2:EB:232:ALA:HB1	2:EB:268:ILE:HD12	2.00	0.43
2:ED:55:THR:N	2:FD:283:ALA:CB	2.82	0.43
1:EE:259:LEU:HD11	1:EE:316:SER:HB3	2.01	0.43
2:EF:73:MET:CE	2:EF:92:PHE:HB3	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FC:171:ILE:HG23	1:FC:204:LEU:O	2.18	0.43
1:GA:317:MET:HE2	1:GA:319:TYR:CE1	2.54	0.43
2:GB:73:MET:CE	2:GB:92:PHE:HB3	2.49	0.43
2:GB:99:ASN:HA	2:GB:142:GLY:H	1.84	0.43
1:GC:101:ASN:HA	1:GC:144:GLY:H	1.83	0.43
1:GE:101:ASN:HA	1:GE:144:GLY:H	1.83	0.43
2:GF:232:ALA:HB1	2:GF:268:ILE:HD12	2.00	0.43
1:HA:181:VAL:HG21	2:HB:256:ASN:O	2.18	0.43
2:HB:397:TRP:HE3	1:HC:257:THR:HG22	1.34	0.43
2:HD:73:MET:CE	2:HD:92:PHE:HB3	2.49	0.43
2:HD:179:VAL:HG23	1:HE:258:ASN:HA	1.97	0.43
2:HF:68:LEU:HD12	2:HF:68:LEU:HA	1.90	0.43
2:HF:232:ALA:HB1	2:HF:268:ILE:HD12	2.00	0.43
2:IB:20:PHE:O	2:IB:24:ILE:HG12	2.18	0.43
1:IC:164:LYS:HA	1:IC:164:LYS:HD3	1.85	0.43
2:ID:391:ARG:HA	2:ID:391:ARG:HD2	1.79	0.43
2:IF:20:PHE:O	2:IF:24:ILE:HG12	2.18	0.43
2:IF:73:MET:CE	2:IF:92:PHE:HB3	2.49	0.43
1:JE:279:GLU:CD	10:9A:22:UNK:O	2.57	0.43
1:JE:401:LYS:HE3	1:JE:401:LYS:HB2	1.74	0.43
2:KB:124:ALA:O	4:2C:38:VAL:HA	2.19	0.43
2:KB:391:ARG:HD2	2:KB:391:ARG:HA	1.79	0.43
2:KD:276:ARG:NH2	6:4B:265:TYR:C	2.76	0.43
1:KE:71:GLU:HA	1:KE:72:PRO:HD3	1.84	0.43
1:KE:88:HIS:HA	1:LE:284:GLU:HA	1.97	0.43
2:KF:121:ARG:NH2	4:2B:144:ASN:CG	2.77	0.43
1:LA:171:ILE:HG23	1:LA:204:LEU:O	2.18	0.43
2:LD:73:MET:CE	2:LD:92:PHE:HB3	2.49	0.43
2:LF:232:ALA:HB1	2:LF:268:ILE:HD12	2.00	0.43
2:LF:294:PHE:O	4:2B:148:ASN:O	2.36	0.43
1:ME:317:MET:HE2	1:ME:319:TYR:CE1	2.54	0.43
3:1B:33:ASP:HB3	3:1B:39:MET:SD	2.58	0.43
4:2B:143:LEU:HD12	4:2B:143:LEU:HA	1.82	0.43
4:2C:15:GLU:C	4:2C:19:MET:HG2	2.40	0.43
5:3A:21:PHE:CG	5:3A:24:MET:HE2	2.52	0.43
6:4A:135:LEU:HD23	6:4A:135:LEU:H	1.83	0.43
6:4A:179:ARG:NH1	6:4A:179:ARG:HB3	2.34	0.43
6:4A:258:ASP:O	6:4A:262:ASN:HB2	2.18	0.43
6:4B:135:LEU:HD23	6:4B:135:LEU:H	1.83	0.43
7:5A:1445:LEU:HD13	7:5A:1445:LEU:HA	1.78	0.43
7:5A:1449:LEU:HD22	7:5A:1449:LEU:HA	1.75	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1125:LEU:CD2	8:6B:246:TYR:CE2	3.02	0.43
7:5B:1316:LEU:HA	7:5B:1316:LEU:HD13	1.87	0.43
7:5C:839:GLU:OE2	8:6C:11:PRO:HG2	2.18	0.43
7:5C:1267:CYS:C	7:5C:1270:ASP:H	2.24	0.43
7:5C:1388:GLN:O	7:5C:1392:LEU:N	2.43	0.43
7:5C:1424:GLN:HE21	7:5C:1424:GLN:HA	1.84	0.43
7:5C:1490:LYS:CG	7:5C:1494:LEU:CG	2.95	0.43
1:AA:60:LYS:CD	1:BA:283:HIS:CD2	3.01	0.42
1:AA:404:PHE:CE2	2:AB:345:ILE:HD11	2.54	0.42
2:AD:321:MET:CA	6:4C:156:PHE:CD2	3.02	0.42
1:AE:171:ILE:HG23	1:AE:204:LEU:O	2.19	0.42
1:BA:248:LEU:HD12	1:BA:248:LEU:HA	1.89	0.42
1:BE:68:LEU:HD22	1:BE:153:LEU:HD11	2.00	0.42
1:BE:322:ASP:OD1	1:BE:373:ARG:NH1	2.52	0.42
2:BF:99:ASN:HA	2:BF:142:GLY:H	1.84	0.42
2:BF:391:ARG:HA	2:BF:391:ARG:HD2	1.78	0.42
1:CA:356:ASN:OD1	1:CA:357:TYR:N	2.51	0.42
2:CB:232:ALA:HB1	2:CB:268:ILE:HD12	2.00	0.42
2:CF:73:MET:CE	2:CF:92:PHE:HB3	2.49	0.42
1:DA:101:ASN:HA	1:DA:144:GLY:H	1.83	0.42
2:DB:73:MET:CE	2:DB:92:PHE:HB3	2.49	0.42
1:DC:322:ASP:OD1	1:DC:373:ARG:NH1	2.52	0.42
1:DE:394:LYS:NZ	2:DF:347:ASN:OD1	2.52	0.42
1:EC:259:LEU:HD11	1:EC:316:SER:HB3	2.01	0.42
2:ED:73:MET:CE	2:ED:92:PHE:HB3	2.49	0.42
2:ED:125:GLU:C	7:5A:903:PHE:HE2	2.01	0.42
2:ED:232:ALA:HB1	2:ED:268:ILE:HD12	2.00	0.42
1:EE:101:ASN:HA	1:EE:144:GLY:H	1.84	0.42
1:FA:101:ASN:HA	1:FA:144:GLY:H	1.83	0.42
1:FE:317:MET:HE2	1:FE:319:TYR:CE1	2.54	0.42
1:GC:68:LEU:HD22	1:GC:153:LEU:HD11	2.00	0.42
2:GD:232:ALA:HB1	2:GD:268:ILE:HD12	2.00	0.42
1:HA:171:ILE:HG23	1:HA:204:LEU:O	2.18	0.42
2:HF:73:MET:CE	2:HF:92:PHE:HB3	2.49	0.42
2:ID:73:MET:CE	2:ID:92:PHE:HB3	2.49	0.42
2:JB:178:THR:HA	1:JC:352:LYS:CD	2.49	0.42
2:JF:391:ARG:HD2	2:JF:391:ARG:HA	1.79	0.42
1:KA:222:PRO:CG	2:KB:324:LYS:CD	2.91	0.42
2:KB:215:LEU:HD12	6:4A:267:ILE:CG2	2.31	0.42
2:KB:217:LEU:HD13	6:4A:263:CYS:HG	1.84	0.42
2:KB:222:TYR:HD2	1:KC:247:ALA:HB1	1.82	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KD:87:PRO:CD	2:LD:282:ARG:CG	2.92	0.42
1:LC:222:PRO:HG2	2:LD:324:LYS:CD	2.41	0.42
1:LE:356:ASN:OD1	1:LE:357:TYR:N	2.51	0.42
2:MB:179:VAL:HG22	1:MC:258:ASN:CG	2.44	0.42
1:ME:282:TYR:CD2	6:4B:104:ARG:CZ	2.65	0.42
4:2A:143:LEU:HD12	4:2A:143:LEU:HA	1.82	0.42
6:4A:193:MET:HE3	6:4A:193:MET:HB3	1.83	0.42
6:4A:260:ARG:HH22	6:4A:295:LYS:HE2	1.82	0.42
6:4B:107:MET:O	6:4B:109:ASP:N	2.52	0.42
6:4B:117:ARG:HA	6:4B:120:GLN:CD	2.43	0.42
7:5A:1267:CYS:C	7:5A:1270:ASP:H	2.24	0.42
7:5B:826:LEU:CB	7:5B:840:GLY:O	2.66	0.42
7:5B:847:GLY:N	8:6B:7:ASP:OD1	2.40	0.42
7:5B:1253:ILE:HD12	7:5B:1261:ALA:CB	2.47	0.42
7:5B:1428:GLU:CD	7:5B:1428:GLU:C	2.85	0.42
9:7D:12:GLU:CA	9:7D:16:THR:HG1	2.17	0.42
1:AA:259:LEU:HD11	1:AA:316:SER:HB3	2.02	0.42
2:AB:73:MET:CE	2:AB:92:PHE:HB3	2.49	0.42
1:AC:171:ILE:HG23	1:AC:204:LEU:O	2.18	0.42
1:AC:259:LEU:HD11	1:AC:316:SER:HB3	2.02	0.42
2:AD:321:MET:CA	6:4C:156:PHE:CE2	3.02	0.42
2:CD:87:PRO:HD3	2:DD:281:TYR:CZ	2.51	0.42
2:CD:232:ALA:HB1	2:CD:268:ILE:HD12	2.00	0.42
1:DA:259:LEU:HD11	1:DA:316:SER:HB3	2.02	0.42
1:DC:259:LEU:HD11	1:DC:316:SER:HB3	2.02	0.42
1:DE:259:LEU:HD11	1:DE:316:SER:HB3	2.01	0.42
1:DE:398:MET:SD	2:DF:345:ILE:CG1	2.93	0.42
2:DF:232:ALA:HB1	2:DF:268:ILE:HD12	2.00	0.42
1:EA:171:ILE:HG23	1:EA:204:LEU:O	2.18	0.42
1:EA:259:LEU:HD11	1:EA:316:SER:HB3	2.01	0.42
1:EA:317:MET:HE2	1:EA:319:TYR:CE1	2.54	0.42
1:EC:101:ASN:HA	1:EC:144:GLY:H	1.84	0.42
1:EC:317:MET:HE2	1:EC:319:TYR:CE1	2.54	0.42
1:EE:401:LYS:HE3	1:EE:401:LYS:HB2	1.74	0.42
2:EF:232:ALA:HB1	2:EF:268:ILE:HD12	2.00	0.42
2:FB:208:TYR:CE2	1:FC:326:LYS:HB3	2.54	0.42
2:FB:232:ALA:HB1	2:FB:268:ILE:HD12	2.00	0.42
1:FC:317:MET:HE2	1:FC:319:TYR:CE1	2.54	0.42
13:FD:502:GDP:H8	1:FE:248:LEU:CD1	2.31	0.42
1:FE:171:ILE:HG23	1:FE:204:LEU:O	2.18	0.42
1:GA:356:ASN:OD1	1:GA:357:TYR:N	2.51	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GC:317:MET:HE2	1:GC:319:TYR:CE1	2.54	0.42
1:HC:60:LYS:HZ2	1:IC:283:HIS:CE1	2.37	0.42
1:HC:259:LEU:HD11	1:HC:316:SER:HB3	2.02	0.42
1:HC:404:PHE:CE2	2:HD:345:ILE:HD11	2.54	0.42
2:HD:232:ALA:HB1	2:HD:268:ILE:HD12	2.00	0.42
2:IB:73:MET:CE	2:IB:92:PHE:HB3	2.49	0.42
2:IB:232:ALA:HB1	2:IB:268:ILE:HD12	2.00	0.42
1:IC:404:PHE:CE2	2:ID:345:ILE:HD11	2.54	0.42
2:ID:232:ALA:HB1	2:ID:268:ILE:HD12	2.00	0.42
2:JD:73:MET:CE	2:JD:92:PHE:HB3	2.49	0.42
2:JF:73:MET:CE	2:JF:92:PHE:HB3	2.49	0.42
2:JF:86:ARG:NH1	2:KF:280:GLN:CA	2.79	0.42
2:KB:226:ASN:ND2	13:KB:501:GDP:HN1	2.12	0.42
1:KE:245:ASP:OD2	6:4B:257:LEU:HD11	2.19	0.42
2:LB:220:PRO:O	1:LC:324:VAL:HG11	2.19	0.42
1:LE:259:LEU:HD11	1:LE:316:SER:HB3	2.01	0.42
2:LF:73:MET:CE	2:LF:92:PHE:HB3	2.49	0.42
2:MD:212:PHE:CZ	1:ME:326:LYS:CD	2.42	0.42
1:ME:68:LEU:HD22	1:ME:153:LEU:HD11	2.00	0.42
2:MF:221:THR:HG21	6:4D:189:ARG:NH1	2.27	0.42
4:2C:143:LEU:HD12	4:2C:143:LEU:HA	1.82	0.42
4:2C:164:ARG:O	4:2C:164:ARG:HG3	2.19	0.42
6:4A:107:MET:O	6:4A:109:ASP:N	2.52	0.42
6:4A:113:ILE:HB	6:4A:117:ARG:NH2	2.34	0.42
6:4C:107:MET:O	6:4C:109:ASP:N	2.52	0.42
6:4C:135:LEU:HD23	6:4C:135:LEU:H	1.83	0.42
6:4D:107:MET:O	6:4D:109:ASP:N	2.52	0.42
6:4D:108:LYS:O	6:4D:108:LYS:CG	2.67	0.42
7:5A:1253:ILE:HD12	7:5A:1261:ALA:CB	2.47	0.42
7:5A:1263:GLN:HB3	9:7A:8:ARG:HD2	2.01	0.42
7:5A:1490:LYS:CG	7:5A:1494:LEU:CG	2.95	0.42
7:5B:1397:GLU:CD	7:5B:1397:GLU:N	2.77	0.42
7:5B:1445:LEU:HD13	7:5B:1445:LEU:HA	1.77	0.42
7:5B:1471:ILE:H	7:5B:1471:ILE:CD1	2.17	0.42
7:5C:1424:GLN:NE2	7:5C:1424:GLN:C	2.73	0.42
7:5C:1449:LEU:HD22	7:5C:1449:LEU:HA	1.75	0.42
9:7B:45:ARG:HA	9:7B:45:ARG:HD2	1.85	0.42
1:AA:171:ILE:HG23	1:AA:204:LEU:O	2.18	0.42
1:AE:259:LEU:HD11	1:AE:316:SER:HB3	2.02	0.42
1:CC:356:ASN:OD1	1:CC:357:TYR:N	2.51	0.42
2:DB:55:THR:HG23	2:EB:283:ALA:HA	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:390:ARG:CD	1:DC:439:THR:HG21	2.49	0.42
2:DD:179:VAL:HG23	1:DE:258:ASN:HA	1.98	0.42
2:DD:232:ALA:HB1	2:DD:268:ILE:HD12	2.00	0.42
1:EA:101:ASN:HA	1:EA:144:GLY:H	1.84	0.42
2:EB:176:SER:OG	1:EC:349:THR:OG1	2.25	0.42
2:EB:179:VAL:HG22	1:EC:258:ASN:CB	2.50	0.42
2:EB:391:ARG:HD2	2:EB:391:ARG:HA	1.79	0.42
1:EC:100:ALA:HB1	2:ED:252:LYS:N	2.34	0.42
1:EE:317:MET:HE2	1:EE:319:TYR:CE1	2.54	0.42
1:FA:401:LYS:HE3	1:FA:401:LYS:HB2	1.74	0.42
2:GD:55:THR:HG21	2:HD:284:LEU:H	1.11	0.42
1:HA:259:LEU:HD11	1:HA:316:SER:HB3	2.02	0.42
2:HB:232:ALA:HB1	2:HB:268:ILE:HD12	2.00	0.42
2:IB:99:ASN:HA	2:IB:142:GLY:H	1.84	0.42
1:JA:404:PHE:CE2	2:JB:345:ILE:HD11	2.54	0.42
2:JB:226:ASN:ND2	13:JB:501:GDP:HN1	2.12	0.42
1:JC:259:LEU:HD11	1:JC:316:SER:HB3	2.02	0.42
2:JD:69:GLU:HA	2:JD:70:PRO:HD3	1.89	0.42
1:JE:259:LEU:HD11	1:JE:316:SER:HB3	2.02	0.42
1:JE:317:MET:HE2	1:JE:319:TYR:CE1	2.54	0.42
2:KB:73:MET:CE	2:KB:92:PHE:HB3	2.49	0.42
1:KC:259:LEU:HD11	1:KC:316:SER:HB3	2.02	0.42
2:KF:77:ARG:CD	2:LF:281:TYR:CE2	3.01	0.42
1:LA:259:LEU:HD11	1:LA:316:SER:HB3	2.02	0.42
1:LA:317:MET:HE2	1:LA:319:TYR:CE1	2.54	0.42
1:LC:176:GLN:O	2:LD:347:ASN:CG	2.61	0.42
1:LC:259:LEU:HD11	1:LC:316:SER:HB3	2.02	0.42
1:LC:356:ASN:OD1	1:LC:357:TYR:N	2.51	0.42
2:LF:226:ASN:ND2	13:LF:501:GDP:HN1	2.12	0.42
2:MB:69:GLU:HA	2:MB:70:PRO:HD3	1.89	0.42
6:4B:97:GLN:HE21	6:4B:97:GLN:HB2	1.49	0.42
6:4C:258:ASP:O	6:4C:262:ASN:HB2	2.18	0.42
6:4D:117:ARG:HA	6:4D:120:GLN:CD	2.43	0.42
7:5A:1397:GLU:N	7:5A:1397:GLU:CD	2.77	0.42
7:5A:1406:PHE:O	7:5A:1409:PHE:N	2.53	0.42
7:5A:1436:ARG:NH2	7:5A:1437:ASN:HA	2.33	0.42
7:5B:829:GLY:HA2	8:6B:109:ILE:HG21	2.01	0.42
7:5B:1267:CYS:C	7:5B:1270:ASP:H	2.24	0.42
7:5B:1386:LYS:N	7:5B:1386:LYS:HZ2	2.17	0.42
7:5B:1406:PHE:O	7:5B:1409:PHE:N	2.53	0.42
7:5B:1436:ARG:NH2	7:5B:1437:ASN:HA	2.33	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5B:1530:ILE:CG2	7:5B:1574:ILE:HG21	2.50	0.42
7:5C:1253:ILE:HD12	7:5C:1261:ALA:CB	2.47	0.42
7:5C:1397:GLU:N	7:5C:1397:GLU:CD	2.77	0.42
7:5C:1406:PHE:O	7:5C:1409:PHE:N	2.53	0.42
7:5C:1436:ARG:NH2	7:5C:1437:ASN:HA	2.33	0.42
2:AD:73:MET:CE	2:AD:92:PHE:HB3	2.49	0.42
1:AE:386:GLU:CD	3:1A:76:ARG:HH21	2.26	0.42
2:AF:357:PRO:HG2	6:4A:151:ARG:CD	2.49	0.42
1:BE:356:ASN:OD1	1:BE:357:TYR:N	2.51	0.42
1:CA:164:LYS:HA	1:CA:164:LYS:HD3	1.85	0.42
1:DA:317:MET:HE2	1:DA:319:TYR:CE1	2.54	0.42
2:DD:60:VAL:HG23	2:ED:281:TYR:CE1	2.54	0.42
1:DE:322:ASP:OD1	1:DE:373:ARG:NH1	2.52	0.42
2:DF:86:ARG:CA	2:EF:281:TYR:CZ	2.83	0.42
1:EC:171:ILE:HG23	1:EC:204:LEU:O	2.19	0.42
1:FA:317:MET:HE2	1:FA:319:TYR:CE1	2.54	0.42
1:FA:394:LYS:HG2	2:FB:346:PRO:CG	2.49	0.42
1:FC:259:LEU:HD11	1:FC:316:SER:HB3	2.02	0.42
2:FD:232:ALA:HB1	2:FD:268:ILE:HD12	2.00	0.42
1:FE:259:LEU:HD11	1:FE:316:SER:HB3	2.02	0.42
2:FF:232:ALA:HB1	2:FF:268:ILE:HD12	2.00	0.42
1:GA:101:ASN:HA	1:GA:144:GLY:H	1.83	0.42
2:GB:68:LEU:HD12	2:GB:68:LEU:HA	1.90	0.42
1:GC:356:ASN:OD1	1:GC:357:TYR:N	2.51	0.42
1:GE:68:LEU:HD22	1:GE:153:LEU:HD11	2.00	0.42
1:GE:356:ASN:OD1	1:GE:357:TYR:N	2.51	0.42
2:HB:391:ARG:HD2	2:HB:391:ARG:HA	1.79	0.42
1:HE:259:LEU:HD11	1:HE:316:SER:HB3	2.02	0.42
2:HF:362:LYS:HD3	10:8U:37:UNK:CB	2.49	0.42
2:ID:99:ASN:HA	2:ID:142:GLY:H	1.83	0.42
2:IF:99:ASN:HA	2:IF:142:GLY:H	1.83	0.42
1:JA:226:ASN:ND2	1:JA:367:ASP:OD2	2.51	0.42
1:JA:259:LEU:HD11	1:JA:316:SER:HB3	2.02	0.42
1:JC:317:MET:HE2	1:JC:319:TYR:CE1	2.54	0.42
1:JC:404:PHE:CE2	2:JD:345:ILE:HD11	2.54	0.42
1:KA:259:LEU:HD11	1:KA:316:SER:HB3	2.02	0.42
2:KB:55:THR:CB	2:LB:363:MET:HE3	2.49	0.42
2:KD:87:PRO:HG2	2:LD:282:ARG:HD2	2.01	0.42
1:KE:259:LEU:HD11	1:KE:316:SER:HB3	2.02	0.42
2:KF:276:ARG:HD3	6:4D:270:GLY:HA3	1.22	0.42
1:LA:356:ASN:OD1	1:LA:357:TYR:N	2.51	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LB:294:PHE:O	4:2C:148:ASN:O	2.37	0.42
1:MA:100:ALA:HB1	2:MB:252:LYS:N	2.34	0.42
2:MB:212:PHE:CZ	1:MC:326:LYS:CD	2.48	0.42
1:MC:356:ASN:OD1	1:MC:357:TYR:N	2.51	0.42
1:MC:357:TYR:CE2	6:4A:185:ARG:NH2	2.76	0.42
1:ME:356:ASN:OD1	1:ME:357:TYR:N	2.51	0.42
4:2A:164:ARG:O	4:2A:164:ARG:HG3	2.19	0.42
7:5A:1374:ASP:HA	7:5A:1377:LYS:CE	2.45	0.42
7:5A:1428:GLU:CD	7:5A:1428:GLU:C	2.85	0.42
7:5B:1399:LYS:C	7:5B:1399:LYS:HZ2	2.27	0.42
7:5C:1036:SER:HB2	7:5C:1043:ARG:HD3	2.02	0.42
7:5C:1416:LYS:HB2	7:5C:1416:LYS:HE2	1.63	0.42
8:6C:107:PRO:HA	8:6C:118:GLU:CD	2.44	0.42
1:AA:328:VAL:O	1:AA:332:ILE:HG12	2.20	0.42
1:AA:356:ASN:OD1	1:AA:357:TYR:N	2.51	0.42
2:AB:222:TYR:CE2	1:AC:325:PRO:HG2	2.55	0.42
2:AF:73:MET:CE	2:AF:92:PHE:HB3	2.49	0.42
1:BC:356:ASN:OD1	1:BC:357:TYR:N	2.51	0.42
2:BD:212:PHE:CE2	1:BE:326:LYS:HB2	2.55	0.42
1:BE:224:TYR:CE2	2:BF:246:LEU:HD11	2.52	0.42
1:CA:93:ILE:H	1:CA:93:ILE:HD12	1.85	0.42
1:CC:317:MET:HE2	1:CC:319:TYR:CE1	2.54	0.42
1:CE:356:ASN:OD1	1:CE:357:TYR:N	2.51	0.42
2:DB:222:TYR:CE2	1:DC:325:PRO:HG2	2.53	0.42
2:DB:232:ALA:HB1	2:DB:268:ILE:HD12	2.00	0.42
1:DC:317:MET:HE2	1:DC:319:TYR:CE1	2.54	0.42
1:EA:221:ARG:NH1	2:EB:324:LYS:N	2.67	0.42
1:EE:171:ILE:HG23	1:EE:204:LEU:O	2.18	0.42
1:FA:259:LEU:HD11	1:FA:316:SER:HB3	2.02	0.42
2:FB:69:GLU:HA	2:FB:70:PRO:HD3	1.89	0.42
2:FD:55:THR:OG1	2:GD:282:ARG:O	2.35	0.42
2:GB:178:THR:HA	1:GC:352:LYS:CD	2.49	0.42
2:GB:222:TYR:CE2	1:GC:325:PRO:HG2	2.54	0.42
1:HE:60:LYS:NZ	1:IE:283:HIS:CE1	2.87	0.42
1:IA:60:LYS:NZ	1:JA:283:HIS:CE1	2.87	0.42
1:IC:93:ILE:HD12	1:IC:93:ILE:H	1.85	0.42
2:ID:69:GLU:HA	2:ID:70:PRO:HD3	1.89	0.42
1:JA:89:PRO:HD3	1:KA:283:HIS:NE2	2.22	0.42
1:JA:328:VAL:O	1:JA:332:ILE:HG12	2.20	0.42
2:JD:177:ASP:CG	1:JE:353:VAL:HG13	2.00	0.42
1:JE:226:ASN:ND2	1:JE:367:ASP:OD2	2.51	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KA:87:PHE:O	1:LA:284:GLU:N	2.51	0.42
2:KB:99:ASN:HA	2:KB:142:GLY:H	1.84	0.42
1:KC:401:LYS:HE3	1:KC:401:LYS:HB2	1.74	0.42
1:KE:224:TYR:CE2	2:KF:246:LEU:HD11	2.46	0.42
1:LC:317:MET:HE2	1:LC:319:TYR:CE1	2.54	0.42
2:LD:18:ALA:CB	6:4B:217:ASN:ND2	2.76	0.42
2:LD:391:ARG:HA	2:LD:391:ARG:HD2	1.79	0.42
1:LE:56:THR:OG1	1:ME:284:GLU:CA	2.67	0.42
1:LE:60:LYS:HE3	6:4B:101:ARG:CZ	2.49	0.42
2:LF:227:HIS:CE1	6:4D:226:ILE:CD1	3.03	0.42
1:MA:356:ASN:OD1	1:MA:357:TYR:N	2.51	0.42
2:MD:222:TYR:CD2	1:ME:247:ALA:HB1	2.55	0.42
2:MD:391:ARG:HA	2:MD:391:ARG:HD2	1.79	0.42
1:ME:164:LYS:HA	1:ME:164:LYS:HD3	1.85	0.42
6:4C:113:ILE:H	6:4C:113:ILE:HG13	1.44	0.42
6:4C:260:ARG:HH22	6:4C:295:LYS:HE2	1.82	0.42
6:4D:118:ILE:HA	6:4D:121:ARG:HD2	2.02	0.42
7:5A:1036:SER:HB2	7:5A:1043:ARG:HD3	2.02	0.42
7:5A:1388:GLN:O	7:5A:1392:LEU:N	2.43	0.42
7:5A:1399:LYS:C	7:5A:1399:LYS:HZ3	2.27	0.42
7:5A:1530:ILE:CG2	7:5A:1574:ILE:HG21	2.50	0.42
7:5B:1036:SER:HB2	7:5B:1043:ARG:HD3	2.02	0.42
7:5B:1407:GLN:NE2	7:5B:1407:GLN:HA	2.35	0.42
7:5C:1548:VAL:HB	7:5C:1566:GLU:HA	1.92	0.42
8:6C:19:VAL:HG11	8:6C:34:LEU:HD11	2.01	0.42
2:AD:380:ARG:HE	2:AD:380:ARG:HB3	1.72	0.42
1:AE:317:MET:HE2	1:AE:319:TYR:CE1	2.54	0.42
1:BE:328:VAL:O	1:BE:332:ILE:HG12	2.20	0.42
1:CA:248:LEU:HD12	1:CA:248:LEU:HA	1.89	0.42
1:CA:259:LEU:HD11	1:CA:316:SER:HB3	2.02	0.42
1:CA:317:MET:HE2	1:CA:319:TYR:CE1	2.54	0.42
1:CC:93:ILE:H	1:CC:93:ILE:HD12	1.85	0.42
2:CF:226:ASN:ND2	13:CF:501:GDP:HN1	2.12	0.42
1:DA:262:TYR:HB2	1:DA:265:ILE:HD12	2.02	0.42
1:DE:262:TYR:HB2	1:DE:265:ILE:HD12	2.02	0.42
1:DE:317:MET:HE2	1:DE:319:TYR:CE1	2.54	0.42
1:EE:93:ILE:H	1:EE:93:ILE:HD12	1.85	0.42
1:EE:356:ASN:OD1	1:EE:357:TYR:N	2.51	0.42
2:FB:55:THR:HG21	2:GB:284:LEU:HB2	2.01	0.42
1:FC:248:LEU:HD12	1:FC:248:LEU:HA	1.89	0.42
2:FF:262:ARG:NH1	2:FF:421:GLU:OE1	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:328:VAL:O	1:GA:332:ILE:HG12	2.20	0.42
1:GC:404:PHE:CE2	2:GD:345:ILE:HD11	2.55	0.42
1:HC:71:GLU:OE2	1:HC:73:THR:OG1	2.28	0.42
1:JC:226:ASN:ND2	1:JC:367:ASP:OD2	2.51	0.42
1:KC:245:ASP:OD2	6:4A:257:LEU:HD12	2.20	0.42
2:KD:73:MET:CE	2:KD:92:PHE:HB3	2.49	0.42
2:KF:221:THR:HB	6:4D:261:SER:HA	1.57	0.42
1:LA:248:LEU:HD12	1:LA:248:LEU:HA	1.89	0.42
2:MB:99:ASN:HA	2:MB:142:GLY:H	1.83	0.42
2:MD:177:ASP:CA	1:ME:353:VAL:HG12	2.49	0.42
4:2B:164:ARG:HG3	4:2B:164:ARG:O	2.19	0.42
6:4A:239:LEU:HD13	6:4A:239:LEU:HA	1.83	0.42
6:4C:266:ASN:HB2	6:4C:273:ARG:NE	2.34	0.42
7:5A:1407:GLN:NE2	7:5A:1407:GLN:HA	2.35	0.42
7:5B:1490:LYS:CG	7:5B:1494:LEU:CG	2.95	0.42
7:5C:1407:GLN:NE2	7:5C:1407:GLN:HA	2.35	0.42
7:5C:1530:ILE:CG2	7:5C:1574:ILE:HG21	2.50	0.42
8:6A:107:PRO:HA	8:6A:118:GLU:CD	2.44	0.42
9:7D:18:VAL:HG11	9:7D:42:LEU:HD22	2.00	0.42
2:AB:178:THR:HA	1:AC:352:LYS:CD	2.49	0.42
1:AC:262:TYR:HB2	1:AC:265:ILE:HD12	2.02	0.42
1:AC:317:MET:HE2	1:AC:319:TYR:CE1	2.54	0.42
1:AC:328:VAL:O	1:AC:332:ILE:HG12	2.20	0.42
1:AC:356:ASN:OD1	1:AC:357:TYR:N	2.51	0.42
1:AE:328:VAL:O	1:AE:332:ILE:HG12	2.20	0.42
1:AE:356:ASN:OD1	1:AE:357:TYR:N	2.51	0.42
1:BA:317:MET:HE2	1:BA:319:TYR:CE1	2.54	0.42
1:BA:328:VAL:O	1:BA:332:ILE:HG12	2.20	0.42
1:CC:259:LEU:HD11	1:CC:316:SER:HB3	2.01	0.42
2:CD:222:TYR:CE2	1:CE:325:PRO:HG2	2.54	0.42
1:CE:93:ILE:H	1:CE:93:ILE:HD12	1.85	0.42
1:CE:328:VAL:O	1:CE:332:ILE:HG12	2.20	0.42
1:CE:398:MET:SD	2:CF:345:ILE:CG1	2.94	0.42
2:CF:268:ILE:HG13	2:CF:300:MET:HG3	2.02	0.42
1:DC:262:TYR:HB2	1:DC:265:ILE:HD12	2.02	0.42
1:DC:328:VAL:O	1:DC:332:ILE:HG12	2.20	0.42
1:DC:394:LYS:NZ	2:DD:347:ASN:OD1	2.53	0.42
1:DE:328:VAL:O	1:DE:332:ILE:HG12	2.20	0.42
1:EA:60:LYS:HD3	1:FA:283:HIS:HD2	1.27	0.42
1:EA:93:ILE:H	1:EA:93:ILE:HD12	1.85	0.42
1:EA:248:LEU:HD12	1:EA:248:LEU:HA	1.89	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:328:VAL:O	1:EA:332:ILE:HG12	2.20	0.42
1:EC:328:VAL:O	1:EC:332:ILE:HG12	2.20	0.42
2:ED:55:THR:H	2:FD:283:ALA:HB2	1.85	0.42
1:EE:328:VAL:O	1:EE:332:ILE:HG12	2.20	0.42
1:FA:164:LYS:HA	1:FA:164:LYS:HD3	1.85	0.42
1:FA:328:VAL:O	1:FA:332:ILE:HG12	2.20	0.42
2:FB:55:THR:HG21	2:GB:284:LEU:CA	2.46	0.42
1:FE:356:ASN:OD1	1:FE:357:TYR:N	2.51	0.42
2:GB:380:ARG:HE	2:GB:380:ARG:HB3	1.72	0.42
1:HA:164:LYS:HA	1:HA:164:LYS:HD3	1.85	0.42
1:HA:222:PRO:CG	2:HB:324:LYS:CD	2.91	0.42
1:HC:93:ILE:H	1:HC:93:ILE:HD12	1.85	0.42
1:HC:415:GLU:HG3	5:3C:235:LEU:CG	2.48	0.42
1:IC:393:HIS:CB	5:3C:308:PHE:CD2	3.02	0.42
1:JA:93:ILE:H	1:JA:93:ILE:HD12	1.85	0.42
1:JA:317:MET:HE2	1:JA:319:TYR:CE1	2.54	0.42
1:JC:93:ILE:H	1:JC:93:ILE:HD12	1.85	0.42
1:JC:328:VAL:O	1:JC:332:ILE:HG12	2.20	0.42
2:JD:87:PRO:HD2	2:KD:281:TYR:HD2	1.21	0.42
2:JD:391:ARG:HD2	2:JD:391:ARG:HA	1.79	0.42
1:JE:328:VAL:O	1:JE:332:ILE:HG12	2.20	0.42
1:KC:85:GLN:HA	1:LC:283:HIS:N	2.31	0.42
2:KD:99:ASN:HA	2:KD:142:GLY:H	1.84	0.42
2:KF:73:MET:CE	2:KF:92:PHE:HB3	2.49	0.42
2:KF:99:ASN:HA	2:KF:142:GLY:H	1.84	0.42
1:LC:71:GLU:OE2	1:LC:73:THR:OG1	2.28	0.42
1:LE:181:VAL:HG12	2:LF:348:ASN:HA	2.00	0.42
1:LE:328:VAL:O	1:LE:332:ILE:HG12	2.20	0.42
1:MA:279:GLU:OE1	6:4C:106:ALA:HB3	2.19	0.42
2:MB:177:ASP:HA	1:MC:353:VAL:HG12	2.02	0.42
2:MB:220:PRO:HD2	1:MC:326:LYS:CG	2.42	0.42
2:MD:99:ASN:HA	2:MD:142:GLY:H	1.83	0.42
4:2A:144:ASN:H	4:2A:144:ASN:HD22	1.68	0.42
4:2B:144:ASN:H	4:2B:144:ASN:HD22	1.68	0.42
4:2C:144:ASN:H	4:2C:144:ASN:HD22	1.68	0.42
6:4A:118:ILE:HA	6:4A:121:ARG:HD2	2.02	0.42
6:4A:266:ASN:HB2	6:4A:273:ARG:NE	2.34	0.42
6:4B:118:ILE:HA	6:4B:121:ARG:HD2	2.02	0.42
6:4D:178:HIS:ND1	6:4D:178:HIS:C	2.72	0.42
7:5A:1460:ARG:HE	7:5A:1460:ARG:HB3	1.69	0.42
7:5B:1272:ILE:HD11	9:7D:11:TYR:CD2	2.53	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1428:GLU:CD	7:5C:1428:GLU:C	2.85	0.42
8:6B:107:PRO:HA	8:6B:118:GLU:CD	2.44	0.42
9:7A:39:GLY:CA	9:7B:43:LEU:HG	2.47	0.42
10:8R:13:UNK:C	10:8R:15:UNK:N	2.83	0.42
1:AA:317:MET:HE2	1:AA:319:TYR:CE1	2.54	0.42
1:AE:262:TYR:HB2	1:AE:265:ILE:HD12	2.02	0.42
2:BB:179:VAL:HG22	1:BC:258:ASN:CA	2.49	0.42
1:BC:222:PRO:CG	2:BD:324:LYS:CD	2.89	0.42
1:BC:248:LEU:HD12	1:BC:248:LEU:HA	1.89	0.42
1:BC:328:VAL:O	1:BC:332:ILE:HG12	2.20	0.42
2:BD:55:THR:HG23	2:CD:283:ALA:HA	2.02	0.42
1:CA:328:VAL:O	1:CA:332:ILE:HG12	2.20	0.42
2:CB:208:TYR:CD2	1:CC:326:LYS:HB3	2.55	0.42
2:CB:268:ILE:HG13	2:CB:300:MET:HG3	2.02	0.42
1:CC:328:VAL:O	1:CC:332:ILE:HG12	2.20	0.42
1:CE:317:MET:HE2	1:CE:319:TYR:CE1	2.54	0.42
1:DA:71:GLU:CD	2:DB:247:ASN:ND2	2.78	0.42
1:DA:328:VAL:O	1:DA:332:ILE:HG12	2.20	0.42
2:DB:179:VAL:HG22	1:DC:258:ASN:CG	2.45	0.42
2:DB:268:ILE:HG13	2:DB:300:MET:HG3	2.02	0.42
2:DD:176:SER:HG	1:DE:349:THR:HG1	1.51	0.42
2:DD:268:ILE:HG13	2:DD:300:MET:HG3	2.02	0.42
2:DF:268:ILE:HG13	2:DF:300:MET:HG3	2.02	0.42
1:EC:93:ILE:H	1:EC:93:ILE:HD12	1.85	0.42
1:EE:262:TYR:HB2	1:EE:265:ILE:HD12	2.02	0.42
1:FA:322:ASP:OD1	1:FA:373:ARG:NH1	2.52	0.42
1:FC:328:VAL:O	1:FC:332:ILE:HG12	2.20	0.42
2:FD:179:VAL:HG22	1:FE:258:ASN:CG	2.45	0.42
1:FE:328:VAL:O	1:FE:332:ILE:HG12	2.20	0.42
1:GA:401:LYS:HE3	1:GA:401:LYS:HB2	1.74	0.42
1:GE:328:VAL:O	1:GE:332:ILE:HG12	2.20	0.42
2:HB:220:PRO:HD2	1:HC:326:LYS:CE	2.44	0.42
1:HE:68:LEU:HD21	1:HE:118:CYS:SG	2.60	0.42
1:HE:93:ILE:H	1:HE:93:ILE:HD12	1.85	0.42
1:IA:226:ASN:ND2	1:IA:367:ASP:OD2	2.51	0.42
2:IB:222:TYR:CE2	1:IC:325:PRO:HG2	2.55	0.42
1:IE:93:ILE:HD12	1:IE:93:ILE:H	1.85	0.42
1:IE:278:ALA:HB1	10:8X:18:UNK:C	2.39	0.42
2:JB:222:TYR:CE2	1:JC:325:PRO:HG2	2.54	0.42
1:KA:84:ARG:NH2	1:LA:279:GLU:O	2.48	0.42
2:KB:222:TYR:CE2	1:KC:325:PRO:HG2	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:404:PHE:CE2	2:KD:345:ILE:HD11	2.55	0.42
2:KF:217:LEU:HB2	6:4D:265:TYR:OH	2.03	0.42
2:LB:375:GLN:O	2:LB:379:LYS:HG3	2.20	0.42
1:LC:328:VAL:O	1:LC:332:ILE:HG12	2.20	0.42
1:LE:89:PRO:CA	1:ME:280:LYS:HZ2	2.33	0.42
1:LE:262:TYR:HB2	1:LE:265:ILE:HD12	2.02	0.42
1:LE:317:MET:HE2	1:LE:319:TYR:CE1	2.54	0.42
2:MF:99:ASN:HA	2:MF:142:GLY:H	1.84	0.42
6:4B:266:ASN:HB2	6:4B:273:ARG:NE	2.34	0.42
6:4D:266:ASN:HB2	6:4D:273:ARG:NE	2.34	0.42
7:5A:891:LEU:HD13	7:5A:1024:LEU:CD2	2.49	0.42
7:5A:1316:LEU:HA	7:5A:1316:LEU:HD13	1.87	0.42
7:5B:891:LEU:HD13	7:5B:1024:LEU:CD2	2.49	0.42
7:5B:1436:ARG:CB	7:5B:1436:ARG:NH1	2.78	0.42
7:5C:1374:ASP:HA	7:5C:1377:LYS:CE	2.45	0.42
8:6B:48:ASN:OD1	8:6B:145:LYS:HE2	2.19	0.42
8:6B:103:CYS:HB3	8:6B:138:TRP:NE1	2.35	0.42
9:7A:39:GLY:H	9:7B:43:LEU:HD21	1.84	0.42
9:7E:18:VAL:CG1	9:7E:42:LEU:HD22	2.36	0.42
10:8Q:13:UNK:C	10:8Q:15:UNK:N	2.83	0.42
2:AB:68:LEU:HD12	2:AB:68:LEU:HA	1.90	0.42
2:AD:179:VAL:HG23	1:AE:258:ASN:HA	1.97	0.42
1:AE:296:PHE:CE2	1:AE:335:ILE:HG21	2.55	0.42
1:AE:401:LYS:HE3	1:AE:401:LYS:HB2	1.74	0.42
1:BA:356:ASN:OD1	1:BA:357:TYR:N	2.51	0.42
1:CA:398:MET:SD	2:CB:345:ILE:CG1	2.94	0.42
2:CD:268:ILE:HG13	2:CD:300:MET:HG3	2.02	0.42
2:DD:176:SER:CB	1:DE:349:THR:HG1	2.31	0.42
1:EA:262:TYR:HB2	1:EA:265:ILE:HD12	2.02	0.42
1:EE:71:GLU:HA	1:EE:72:PRO:HD3	1.84	0.42
2:EF:293:MET:HE3	2:EF:294:PHE:CD1	2.55	0.42
2:FD:131:GLN:O	2:FD:163:ILE:HG12	2.20	0.42
2:FD:262:ARG:NH1	2:FD:421:GLU:OE1	2.50	0.42
1:GC:328:VAL:O	1:GC:332:ILE:HG12	2.20	0.42
1:HA:68:LEU:HD21	1:HA:118:CYS:SG	2.60	0.42
2:HB:222:TYR:CE2	1:HC:325:PRO:HG2	2.54	0.42
1:HC:68:LEU:HD21	1:HC:118:CYS:SG	2.60	0.42
2:HD:220:PRO:HD2	1:HE:326:LYS:CE	2.44	0.42
1:HE:58:ALA:HB3	10:8X:13:UNK:HA	2.01	0.42
1:IA:93:ILE:H	1:IA:93:ILE:HD12	1.85	0.42
1:IA:259:LEU:HD11	1:IA:316:SER:HB3	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IB:85:PHE:C	2:JB:281:TYR:HH	2.15	0.42
1:IC:279:GLU:CG	10:8W:22:UNK:HA	2.48	0.42
2:ID:131:GLN:O	2:ID:163:ILE:HG12	2.20	0.42
2:ID:424:GLN:HE21	7:5A:1413:GLN:NE2	0.96	0.42
1:IE:226:ASN:ND2	1:IE:367:ASP:OD2	2.51	0.42
1:JC:401:LYS:HE3	1:JC:401:LYS:HB2	1.74	0.42
2:JD:212:PHE:CZ	1:JE:326:LYS:CE	2.98	0.42
1:KA:226:ASN:ND2	1:KA:367:ASP:OD2	2.51	0.42
1:KC:71:GLU:HA	1:KC:72:PRO:HD3	1.85	0.42
1:KE:296:PHE:CE2	1:KE:335:ILE:HG21	2.55	0.42
2:KF:77:ARG:HD3	2:LF:281:TYR:CZ	2.54	0.42
2:KF:125:GLU:C	4:2B:38:VAL:HA	2.45	0.42
1:LC:248:LEU:HD12	1:LC:248:LEU:HA	1.89	0.42
1:LC:262:TYR:HB2	1:LC:265:ILE:HD12	2.02	0.42
2:LD:226:ASN:ND2	13:LD:501:GDP:HN1	2.12	0.42
2:LF:294:PHE:HD2	4:2B:147:PHE:CE2	2.35	0.42
2:MB:218:THR:OG1	6:4A:196:GLN:NE2	2.49	0.42
1:MC:279:GLU:OE1	6:4A:107:MET:CB	2.67	0.42
6:4A:110:LYS:O	6:4A:110:LYS:HD3	2.20	0.42
6:4A:230:TYR:CD2	6:4A:230:TYR:N	2.74	0.42
6:4B:193:MET:HE3	6:4B:193:MET:HB3	1.83	0.42
6:4C:110:LYS:O	6:4C:110:LYS:HD3	2.20	0.42
6:4C:118:ILE:HA	6:4C:121:ARG:HD2	2.02	0.42
6:4D:97:GLN:HE21	6:4D:97:GLN:HB2	1.49	0.42
6:4D:105:GLU:OE2	6:4D:105:GLU:HA	2.17	0.42
6:4D:113:ILE:HB	6:4D:117:ARG:NH2	2.34	0.42
7:5A:1548:VAL:HB	7:5A:1566:GLU:HA	1.91	0.42
7:5B:827:GLU:HG3	7:5B:849:ARG:HH22	1.84	0.42
7:5B:1105:TYR:HB2	7:5B:1165:PRO:C	2.45	0.42
7:5C:891:LEU:HD13	7:5C:1024:LEU:CD2	2.49	0.42
8:6A:48:ASN:OD1	8:6A:145:LYS:HE2	2.20	0.42
8:6A:60:PHE:CZ	8:6A:243:ILE:HG12	2.55	0.42
8:6A:142:THR:HG21	8:6A:180:GLU:HA	2.02	0.42
8:6C:23:ASP:OD2	8:6C:132:LYS:HE3	2.20	0.42
8:6C:34:LEU:HD21	8:6C:127:PHE:HE1	1.84	0.42
8:6C:103:CYS:HB3	8:6C:138:TRP:NE1	2.35	0.42
9:7E:11:TYR:OH	9:7F:27:GLY:CA	2.67	0.42
10:8K:13:UNK:C	10:8K:15:UNK:N	2.83	0.42
1:AA:262:TYR:HB2	1:AA:265:ILE:HD12	2.02	0.42
1:AA:407:TRP:HE3	2:AB:255:VAL:HG13	0.97	0.42
2:AB:293:MET:HE3	2:AB:294:PHE:CD1	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:179:VAL:HG21	1:AE:258:ASN:CA	2.50	0.42
2:AF:69:GLU:HA	2:AF:70:PRO:HD3	1.89	0.42
1:BA:222:PRO:CG	2:BB:324:LYS:CD	2.90	0.42
1:BC:259:LEU:HD11	1:BC:316:SER:HB3	2.01	0.42
1:BC:317:MET:HE2	1:BC:319:TYR:CE1	2.54	0.42
1:BE:259:LEU:HD11	1:BE:316:SER:HB3	2.02	0.42
1:CA:262:TYR:HB2	1:CA:265:ILE:HD12	2.02	0.42
2:CB:179:VAL:HG22	1:CC:258:ASN:HA	1.99	0.42
2:CB:375:GLN:O	2:CB:379:LYS:HG3	2.20	0.42
2:CD:226:ASN:ND2	13:CD:501:GDP:HN1	2.12	0.42
2:CD:375:GLN:O	2:CD:379:LYS:HG3	2.20	0.42
1:CE:259:LEU:HD11	1:CE:316:SER:HB3	2.02	0.42
2:CF:375:GLN:O	2:CF:379:LYS:HG3	2.20	0.42
1:EC:71:GLU:CD	2:ED:247:ASN:HD22	2.27	0.42
1:EC:262:TYR:HB2	1:EC:265:ILE:HD12	2.02	0.42
1:EC:356:ASN:OD1	1:EC:357:TYR:N	2.51	0.42
2:ED:293:MET:HE3	2:ED:294:PHE:CD1	2.55	0.42
2:FB:131:GLN:O	2:FB:163:ILE:HG12	2.20	0.42
1:FC:356:ASN:OD1	1:FC:357:TYR:N	2.51	0.42
1:FE:262:TYR:HB2	1:FE:265:ILE:HD12	2.02	0.42
1:GC:93:ILE:H	1:GC:93:ILE:HD12	1.85	0.42
1:GE:398:MET:SD	2:GF:345:ILE:CG1	2.92	0.42
1:HA:93:ILE:H	1:HA:93:ILE:HD12	1.85	0.42
1:HA:356:ASN:OD1	1:HA:357:TYR:N	2.51	0.42
2:HB:131:GLN:O	2:HB:163:ILE:HG12	2.20	0.42
1:HC:262:TYR:HB2	1:HC:265:ILE:HD12	2.02	0.42
2:HD:131:GLN:O	2:HD:163:ILE:HG12	2.20	0.42
1:HE:356:ASN:OD1	1:HE:357:TYR:N	2.51	0.42
2:IB:131:GLN:O	2:IB:163:ILE:HG12	2.20	0.42
2:IB:220:PRO:HD2	1:IC:326:LYS:CG	2.46	0.42
1:IC:226:ASN:ND2	1:IC:367:ASP:OD2	2.51	0.42
1:IC:434:GLU:CG	5:3C:61:SER:HA	2.50	0.42
1:IE:224:TYR:CE2	2:IF:246:LEU:HD11	2.46	0.42
2:IF:131:GLN:O	2:IF:163:ILE:HG12	2.20	0.42
2:JB:69:GLU:HA	2:JB:70:PRO:HD3	1.89	0.42
2:JB:85:PHE:O	2:KB:281:TYR:CE2	2.62	0.42
2:JB:131:GLN:O	2:JB:163:ILE:HG12	2.20	0.42
1:JE:93:ILE:H	1:JE:93:ILE:HD12	1.85	0.42
1:JE:356:ASN:OD1	1:JE:357:TYR:N	2.51	0.42
1:KC:262:TYR:HB2	1:KC:265:ILE:HD12	2.02	0.42
2:KD:117:LEU:HD21	4:2A:144:ASN:OD1	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:356:ASN:OD1	1:KE:357:TYR:N	2.51	0.42
1:LA:93:ILE:H	1:LA:93:ILE:HD12	1.85	0.42
1:LA:100:ALA:O	2:LB:255:VAL:HG21	2.19	0.42
1:LA:262:TYR:HB2	1:LA:265:ILE:HD12	2.02	0.42
1:LA:328:VAL:O	1:LA:332:ILE:HG12	2.20	0.42
1:MA:296:PHE:CE2	1:MA:335:ILE:HG21	2.55	0.42
2:MB:375:GLN:O	2:MB:379:LYS:HG3	2.20	0.42
1:ME:224:TYR:CE2	2:MF:246:LEU:HD11	2.47	0.42
6:4A:113:ILE:H	6:4A:113:ILE:HG13	1.44	0.42
6:4B:105:GLU:OE2	6:4B:105:GLU:HA	2.17	0.42
6:4B:113:ILE:HB	6:4B:117:ARG:NH2	2.34	0.42
6:4C:266:ASN:CG	6:4C:269:THR:HG23	2.45	0.42
7:5A:1471:ILE:H	7:5A:1471:ILE:CD1	2.18	0.42
7:5B:1259:TYR:O	7:5B:1263:GLN:HG2	2.19	0.42
7:5B:1370:LYS:HD3	7:5B:1370:LYS:HA	1.61	0.42
7:5B:1388:GLN:O	7:5B:1392:LEU:N	2.43	0.42
7:5C:930:MET:HE1	7:5C:1018:PHE:CE2	2.55	0.42
8:6A:103:CYS:HB3	8:6A:138:TRP:NE1	2.35	0.42
8:6B:60:PHE:CZ	8:6B:243:ILE:HG12	2.55	0.42
8:6B:142:THR:HG21	8:6B:180:GLU:HA	2.02	0.42
8:6C:48:ASN:OD1	8:6C:145:LYS:HE2	2.20	0.42
8:6C:142:THR:HG21	8:6C:180:GLU:HA	2.02	0.42
8:6C:206:ASN:O	8:6C:214:LYS:HE2	2.20	0.42
9:7E:11:TYR:CE1	9:7F:26:LEU:CG	2.89	0.42
9:7E:39:GLY:CA	9:7F:43:LEU:HD11	2.48	0.42
10:8L:13:UNK:C	10:8L:15:UNK:N	2.83	0.42
10:8P:13:UNK:C	10:8P:15:UNK:N	2.83	0.42
1:AA:226:ASN:ND2	1:AA:367:ASP:OD2	2.51	0.41
2:AD:293:MET:HE3	2:AD:294:PHE:CD1	2.55	0.41
2:BD:222:TYR:CE2	1:BE:325:PRO:HG2	2.55	0.41
2:BD:391:ARG:HA	2:BD:391:ARG:HD2	1.78	0.41
1:BE:317:MET:HE2	1:BE:319:TYR:CE1	2.54	0.41
1:CC:248:LEU:HD12	1:CC:248:LEU:HA	1.89	0.41
1:CE:262:TYR:HB2	1:CE:265:ILE:HD12	2.02	0.41
1:CE:296:PHE:CE2	1:CE:335:ILE:HG21	2.55	0.41
1:DA:296:PHE:CE2	1:DA:335:ILE:HG21	2.55	0.41
1:DA:407:TRP:HE3	2:DB:255:VAL:HG13	1.06	0.41
2:DB:391:ARG:HD2	2:DB:391:ARG:HA	1.79	0.41
2:DD:390:ARG:CD	1:DE:439:THR:HG21	2.50	0.41
1:DE:128:ASN:HD21	1:EE:285:GLN:NE2	2.18	0.41
1:EA:356:ASN:OD1	1:EA:357:TYR:N	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:293:MET:HE3	2:EB:294:PHE:CD1	2.55	0.41
1:FC:62:VAL:CG2	1:GC:283:HIS:O	2.68	0.41
1:FC:221:ARG:NH1	2:FD:324:LYS:N	2.68	0.41
1:FC:262:TYR:HB2	1:FC:265:ILE:HD12	2.02	0.41
1:FE:226:ASN:ND2	1:FE:367:ASP:OD2	2.51	0.41
1:FE:248:LEU:HD12	1:FE:248:LEU:HA	1.89	0.41
2:FF:131:GLN:O	2:FF:163:ILE:HG12	2.20	0.41
2:GB:131:GLN:O	2:GB:163:ILE:HG12	2.20	0.41
1:GE:93:ILE:H	1:GE:93:ILE:HD12	1.85	0.41
1:HC:356:ASN:OD1	1:HC:357:TYR:N	2.51	0.41
1:HE:262:TYR:HB2	1:HE:265:ILE:HD12	2.02	0.41
2:HF:131:GLN:O	2:HF:163:ILE:HG12	2.20	0.41
2:HF:268:ILE:HG13	2:HF:300:MET:HG3	2.02	0.41
1:IA:164:LYS:HA	1:IA:164:LYS:HD3	1.86	0.41
1:IA:328:VAL:O	1:IA:332:ILE:HG12	2.20	0.41
1:IC:259:LEU:HD11	1:IC:316:SER:HB3	2.02	0.41
1:JA:68:LEU:HD21	1:JA:118:CYS:SG	2.60	0.41
2:JD:131:GLN:O	2:JD:163:ILE:HG12	2.20	0.41
2:JF:131:GLN:O	2:JF:163:ILE:HG12	2.20	0.41
1:KA:356:ASN:OD1	1:KA:357:TYR:N	2.51	0.41
1:KC:356:ASN:OD1	1:KC:357:TYR:N	2.51	0.41
1:KE:262:TYR:HB2	1:KE:265:ILE:HD12	2.02	0.41
2:KF:131:GLN:O	2:KF:163:ILE:HG12	2.20	0.41
2:LD:375:GLN:O	2:LD:379:LYS:HG3	2.20	0.41
2:LF:268:ILE:HG13	2:LF:300:MET:HG3	2.02	0.41
1:MA:96:LYS:HE2	2:MB:1:MET:CE	2.50	0.41
1:MA:226:ASN:ND2	1:MA:367:ASP:OD2	2.51	0.41
1:MC:226:ASN:ND2	1:MC:367:ASP:OD2	2.51	0.41
6:4B:110:LYS:O	6:4B:110:LYS:HD3	2.20	0.41
6:4B:266:ASN:CG	6:4B:269:THR:HG23	2.45	0.41
6:4C:230:TYR:CD2	6:4C:230:TYR:N	2.74	0.41
6:4D:95:SER:O	6:4D:95:SER:OG	2.38	0.41
7:5A:827:GLU:HG3	7:5A:849:ARG:HH22	1.84	0.41
7:5A:1105:TYR:HB2	7:5A:1165:PRO:C	2.45	0.41
7:5C:1244:LEU:O	7:5C:1246:LEU:N	2.53	0.41
7:5C:1490:LYS:CE	7:5C:1494:LEU:CD2	2.98	0.41
8:6A:34:LEU:HD21	8:6A:127:PHE:HE1	1.84	0.41
8:6B:34:LEU:HD21	8:6B:127:PHE:HE1	1.84	0.41
9:7A:15:VAL:HG11	9:7B:35:ILE:HA	1.97	0.41
10:8B:13:UNK:C	10:8B:15:UNK:N	2.83	0.41
1:AC:296:PHE:CE2	1:AC:335:ILE:HG21	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:404:PHE:CE2	2:AD:345:ILE:HD11	2.54	0.41
2:AD:274:THR:O	6:4C:134:LEU:HD11	2.20	0.41
1:AE:226:ASN:ND2	1:AE:367:ASP:OD2	2.51	0.41
2:AF:55:THR:CG2	2:BF:283:ALA:CA	2.80	0.41
2:AF:293:MET:HE3	2:AF:294:PHE:CD1	2.55	0.41
2:BB:293:MET:HE3	2:BB:294:PHE:CD1	2.56	0.41
1:BC:93:ILE:H	1:BC:93:ILE:HD12	1.85	0.41
1:BC:296:PHE:CE2	1:BC:335:ILE:HG21	2.55	0.41
1:BE:93:ILE:H	1:BE:93:ILE:HD12	1.85	0.41
1:CA:181:VAL:HG21	2:CB:256:ASN:O	2.20	0.41
1:CC:262:TYR:HB2	1:CC:265:ILE:HD12	2.02	0.41
1:CC:296:PHE:CE2	1:CC:335:ILE:HG21	2.55	0.41
2:DB:179:VAL:HG22	1:DC:258:ASN:CA	2.50	0.41
1:DC:296:PHE:CE2	1:DC:335:ILE:HG21	2.55	0.41
1:DE:212:ILE:HD11	1:DE:300:ASN:HA	2.03	0.41
2:EB:394:PHE:CD1	1:EC:261:PRO:HA	2.55	0.41
1:EC:407:TRP:HE3	2:ED:255:VAL:HG13	0.90	0.41
2:ED:268:ILE:HG13	2:ED:300:MET:HG3	2.02	0.41
2:EF:268:ILE:HG13	2:EF:300:MET:HG3	2.02	0.41
1:FA:356:ASN:OD1	1:FA:357:TYR:N	2.51	0.41
1:FC:226:ASN:ND2	1:FC:367:ASP:OD2	2.51	0.41
2:FD:293:MET:HE1	2:FD:330:MET:HE1	2.02	0.41
1:FE:56:THR:O	1:GE:285:GLN:HA	2.20	0.41
2:GF:44:LEU:HD23	2:GF:44:LEU:HA	1.93	0.41
2:GF:416:ASN:HB3	7:5B:1327:LYS:CE	2.50	0.41
1:HA:248:LEU:HD12	1:HA:248:LEU:HA	1.89	0.41
1:HA:262:TYR:HB2	1:HA:265:ILE:HD12	2.02	0.41
1:HC:60:LYS:NZ	1:IC:283:HIS:CE1	2.88	0.41
1:HE:328:VAL:O	1:HE:332:ILE:HG12	2.20	0.41
2:IB:293:MET:HE3	2:IB:294:PHE:CD1	2.55	0.41
2:JB:293:MET:HE3	2:JB:294:PHE:CD1	2.56	0.41
2:JB:394:PHE:CD1	1:JC:261:PRO:HA	2.55	0.41
1:JC:68:LEU:HD21	1:JC:118:CYS:SG	2.60	0.41
1:JC:262:TYR:HB2	1:JC:265:ILE:HD12	2.02	0.41
2:JD:212:PHE:HZ	1:JE:326:LYS:CE	2.19	0.41
2:JD:222:TYR:HD2	1:JE:247:ALA:HB1	1.86	0.41
2:JD:293:MET:HE3	2:JD:294:PHE:CD1	2.55	0.41
1:JE:262:TYR:HB2	1:JE:265:ILE:HD12	2.02	0.41
1:JE:296:PHE:CE2	1:JE:335:ILE:HG21	2.55	0.41
1:KA:124:LYS:HD3	1:LA:293:ASN:HB2	2.00	0.41
1:KA:262:TYR:HB2	1:KA:265:ILE:HD12	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KA:296:PHE:CE2	1:KA:335:ILE:HG21	2.55	0.41
2:KB:293:MET:HE3	2:KB:294:PHE:CD1	2.55	0.41
1:KC:226:ASN:ND2	1:KC:367:ASP:OD2	2.51	0.41
1:KC:296:PHE:CE2	1:KC:335:ILE:HG21	2.55	0.41
2:KD:217:LEU:CD1	6:4B:263:CYS:SG	3.08	0.41
2:KD:293:MET:HE3	2:KD:294:PHE:CD1	2.55	0.41
1:KE:226:ASN:ND2	1:KE:367:ASP:OD2	2.51	0.41
2:KF:293:MET:HE3	2:KF:294:PHE:CD1	2.56	0.41
1:LA:33:ASP:O	6:4C:101:ARG:NE	2.54	0.41
1:LA:222:PRO:HG2	2:LB:324:LYS:CD	2.42	0.41
2:LB:379:LYS:HE3	4:2C:166:ILE:HG13	2.01	0.41
1:LC:93:ILE:H	1:LC:93:ILE:HD12	1.85	0.41
2:LD:268:ILE:HG13	2:LD:300:MET:HG3	2.02	0.41
2:LD:379:LYS:HZ1	4:2A:166:ILE:CA	2.32	0.41
1:LE:60:LYS:CE	6:4B:101:ARG:NH2	2.80	0.41
2:LF:270:PHE:CE2	6:4D:226:ILE:CG2	2.97	0.41
2:MB:293:MET:HE3	2:MB:294:PHE:CD1	2.55	0.41
11:MC:501:GTP:O1G	2:MD:252:LYS:NZ	2.43	0.41
2:MD:375:GLN:O	2:MD:379:LYS:HG3	2.20	0.41
6:4A:266:ASN:CG	6:4A:269:THR:HG23	2.45	0.41
6:4C:239:LEU:HD13	6:4C:239:LEU:HA	1.83	0.41
6:4D:110:LYS:O	6:4D:110:LYS:HD3	2.20	0.41
6:4D:202:VAL:HA	6:4D:205:GLN:CD	2.46	0.41
6:4D:266:ASN:CG	6:4D:269:THR:HG23	2.45	0.41
7:5A:930:MET:HE1	7:5A:1018:PHE:CE2	2.55	0.41
7:5A:1244:LEU:O	7:5A:1246:LEU:N	2.53	0.41
7:5A:1259:TYR:O	7:5A:1263:GLN:HG2	2.19	0.41
7:5B:1244:LEU:O	7:5B:1246:LEU:N	2.53	0.41
7:5B:1577:LYS:HE3	7:5B:1578:GLY:H	1.86	0.41
7:5C:1391:GLN:HE21	7:5C:1391:GLN:HB3	1.64	0.41
8:6C:101:GLU:OE2	8:6C:130:ASN:ND2	2.37	0.41
9:7D:45:ARG:HA	9:7D:45:ARG:HD2	1.85	0.41
10:8A:13:UNK:C	10:8A:15:UNK:N	2.83	0.41
10:8C:13:UNK:C	10:8C:15:UNK:N	2.83	0.41
1:AA:212:ILE:HD11	1:AA:300:ASN:HA	2.03	0.41
2:AB:375:GLN:O	2:AB:379:LYS:HG3	2.20	0.41
1:AC:212:ILE:HD11	1:AC:300:ASN:HA	2.03	0.41
1:AC:226:ASN:ND2	1:AC:367:ASP:OD2	2.51	0.41
1:BA:212:ILE:HD11	1:BA:300:ASN:HA	2.03	0.41
1:BA:259:LEU:HD11	1:BA:316:SER:HB3	2.01	0.41
1:BC:212:ILE:HD11	1:BC:300:ASN:HA	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BD:293:MET:HE3	2:BD:294:PHE:CD1	2.56	0.41
1:BE:212:ILE:HD11	1:BE:300:ASN:HA	2.03	0.41
1:BE:226:ASN:ND2	1:BE:367:ASP:OD2	2.51	0.41
1:BE:296:PHE:CE2	1:BE:335:ILE:HG21	2.55	0.41
2:BF:69:GLU:HA	2:BF:70:PRO:HD3	1.89	0.41
2:BF:293:MET:HE3	2:BF:294:PHE:CD1	2.56	0.41
1:CA:217:LEU:HD23	1:CA:217:LEU:HA	1.92	0.41
1:CE:212:ILE:HD11	1:CE:300:ASN:HA	2.03	0.41
1:DA:212:ILE:HD11	1:DA:300:ASN:HA	2.03	0.41
2:DD:177:ASP:O	1:DE:352:LYS:CA	2.64	0.41
2:EB:375:GLN:O	2:EB:379:LYS:HG3	2.20	0.41
1:EC:401:LYS:HE3	1:EC:401:LYS:HB2	1.74	0.41
1:FA:226:ASN:ND2	1:FA:367:ASP:OD2	2.51	0.41
1:FA:262:TYR:HB2	1:FA:265:ILE:HD12	2.02	0.41
2:FB:293:MET:HE1	2:FB:330:MET:HE1	2.02	0.41
1:FC:296:PHE:CE2	1:FC:335:ILE:HG21	2.55	0.41
1:FC:322:ASP:OD1	1:FC:373:ARG:NH1	2.52	0.41
1:FE:222:PRO:HG2	2:FF:324:LYS:HB2	2.01	0.41
2:FF:293:MET:HE1	2:FF:330:MET:HE1	2.02	0.41
1:GA:93:ILE:H	1:GA:93:ILE:HD12	1.85	0.41
2:GD:44:LEU:HD23	2:GD:44:LEU:HA	1.93	0.41
2:HB:394:PHE:CD1	1:HC:261:PRO:HA	2.56	0.41
1:HC:328:VAL:O	1:HC:332:ILE:HG12	2.20	0.41
1:HC:407:TRP:HE3	2:HD:255:VAL:HG13	0.95	0.41
2:IB:69:GLU:HA	2:IB:70:PRO:HD3	1.89	0.41
2:IB:293:MET:HE1	2:IB:330:MET:HE1	2.02	0.41
1:IC:282:TYR:CG	10:8W:15:UNK:CA	3.01	0.41
2:ID:293:MET:HE1	2:ID:330:MET:HE1	2.02	0.41
1:JA:262:TYR:HB2	1:JA:265:ILE:HD12	2.02	0.41
1:JA:296:PHE:CE2	1:JA:335:ILE:HG21	2.55	0.41
1:JC:356:ASN:OD1	1:JC:357:TYR:N	2.51	0.41
2:JD:88:ASP:OD1	2:KD:278:SER:OG	2.28	0.41
1:KA:85:GLN:O	1:LA:282:TYR:O	2.38	0.41
1:KC:93:ILE:H	1:KC:93:ILE:HD12	1.85	0.41
2:KD:131:GLN:O	2:KD:163:ILE:HG12	2.20	0.41
1:KE:93:ILE:H	1:KE:93:ILE:HD12	1.85	0.41
2:KF:54:ALA:HA	2:LF:285:THR:CG2	2.50	0.41
2:KF:257:LEU:HD11	2:KF:314:SER:HB2	2.03	0.41
1:LA:60:LYS:HZ2	1:MA:283:HIS:CE1	2.38	0.41
2:LB:305:PRO:CG	4:2C:149:ILE:HD11	2.49	0.41
2:LD:221:THR:CG2	6:4B:219:ASN:HD22	2.32	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LE:176:GLN:NE2	4:2B:42:PHE:CD1	2.47	0.41
2:LF:375:GLN:O	2:LF:379:LYS:HG3	2.20	0.41
1:MA:93:ILE:H	1:MA:93:ILE:HD12	1.85	0.41
1:MC:296:PHE:CE2	1:MC:335:ILE:HG21	2.56	0.41
2:MD:293:MET:HE3	2:MD:294:PHE:CD1	2.55	0.41
1:ME:226:ASN:ND2	1:ME:367:ASP:OD2	2.51	0.41
1:ME:279:GLU:CG	6:4B:110:LYS:HE2	2.34	0.41
1:ME:296:PHE:CE2	1:ME:335:ILE:HG21	2.55	0.41
6:4B:202:VAL:HA	6:4B:205:GLN:CD	2.46	0.41
6:4C:219:ASN:HD22	6:4C:219:ASN:HA	1.53	0.41
6:4D:230:TYR:O	6:4D:230:TYR:CD2	2.73	0.41
7:5A:1370:LYS:HD3	7:5A:1370:LYS:HA	1.61	0.41
7:5A:1490:LYS:HD2	7:5A:1494:LEU:HD22	1.95	0.41
7:5A:1490:LYS:CE	7:5A:1494:LEU:CD2	2.98	0.41
7:5A:1577:LYS:HE3	7:5A:1578:GLY:H	1.86	0.41
7:5B:930:MET:HE1	7:5B:1018:PHE:CE2	2.55	0.41
7:5B:1460:ARG:HE	7:5B:1460:ARG:HB3	1.69	0.41
7:5B:1490:LYS:HD2	7:5B:1494:LEU:HD22	1.95	0.41
7:5C:1105:TYR:HB2	7:5C:1165:PRO:C	2.45	0.41
7:5C:1259:TYR:O	7:5C:1263:GLN:HG2	2.19	0.41
7:5C:1386:LYS:N	7:5C:1386:LYS:HZ3	2.18	0.41
8:6A:19:VAL:HG11	8:6A:34:LEU:HD11	2.01	0.41
8:6A:23:ASP:OD2	8:6A:132:LYS:HE3	2.20	0.41
10:8J:13:UNK:C	10:8J:15:UNK:N	2.83	0.41
1:AA:222:PRO:CG	2:AB:324:LYS:CD	2.91	0.41
1:AA:296:PHE:CE2	1:AA:335:ILE:HG21	2.55	0.41
1:AE:342:GLN:CD	3:1A:55:HIS:CE1	2.97	0.41
2:AF:40:SER:HB3	6:4A:152:PHE:CD2	2.23	0.41
2:AF:268:ILE:HG13	2:AF:300:MET:HG3	2.02	0.41
2:AF:279:GLN:O	6:4A:142:SER:HB3	2.21	0.41
2:BB:268:ILE:HG13	2:BB:300:MET:HG3	2.02	0.41
1:BE:71:GLU:OE2	1:BE:73:THR:OG1	2.28	0.41
1:BE:179:THR:O	2:BF:350:LYS:HA	2.20	0.41
1:BE:248:LEU:HD12	1:BE:248:LEU:HA	1.89	0.41
1:CA:296:PHE:CE2	1:CA:335:ILE:HG21	2.56	0.41
2:CB:226:ASN:ND2	13:CB:501:GDP:HN1	2.12	0.41
1:CC:212:ILE:HD11	1:CC:300:ASN:HA	2.03	0.41
2:CD:179:VAL:HG22	1:CE:258:ASN:CG	2.45	0.41
2:DB:131:GLN:O	2:DB:163:ILE:HG12	2.20	0.41
2:DB:177:ASP:HA	1:DC:353:VAL:HG12	2.02	0.41
1:DE:402:ARG:HD2	7:5B:777:ALA:HB1	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:268:ILE:HG13	2:EB:300:MET:HG3	2.02	0.41
1:EC:248:LEU:HD12	1:EC:248:LEU:HA	1.89	0.41
2:ED:375:GLN:O	2:ED:379:LYS:HG3	2.20	0.41
1:EE:212:ILE:HD11	1:EE:300:ASN:HA	2.03	0.41
1:EE:226:ASN:ND2	1:EE:367:ASP:OD2	2.51	0.41
2:EF:375:GLN:O	2:EF:379:LYS:HG3	2.20	0.41
2:FD:401:GLU:H	7:5A:1293:VAL:HG21	1.84	0.41
1:FE:296:PHE:CE2	1:FE:335:ILE:HG21	2.55	0.41
1:GA:296:PHE:CE2	1:GA:335:ILE:HG21	2.55	0.41
2:GB:220:PRO:HD2	1:GC:326:LYS:CE	2.44	0.41
2:GB:394:PHE:CD1	1:GC:261:PRO:HA	2.55	0.41
1:GC:212:ILE:HD11	1:GC:300:ASN:HA	2.02	0.41
1:GC:296:PHE:CE2	1:GC:335:ILE:HG21	2.55	0.41
2:GD:131:GLN:O	2:GD:163:ILE:HG12	2.20	0.41
1:GE:296:PHE:CE2	1:GE:335:ILE:HG21	2.55	0.41
2:GF:391:ARG:HA	2:GF:391:ARG:HD2	1.79	0.41
2:HB:375:GLN:O	2:HB:379:LYS:HG3	2.20	0.41
1:HC:248:LEU:HD12	1:HC:248:LEU:HA	1.89	0.41
2:HD:268:ILE:HG13	2:HD:300:MET:HG3	2.02	0.41
1:IC:328:VAL:O	1:IC:332:ILE:HG12	2.20	0.41
2:ID:293:MET:HE3	2:ID:294:PHE:CD1	2.55	0.41
1:IE:259:LEU:HD11	1:IE:316:SER:HB3	2.02	0.41
2:IF:293:MET:HE1	2:IF:330:MET:HE1	2.02	0.41
1:JA:356:ASN:OD1	1:JA:357:TYR:N	2.51	0.41
1:JE:68:LEU:HD21	1:JE:118:CYS:SG	2.60	0.41
2:JF:293:MET:HE3	2:JF:294:PHE:CD1	2.55	0.41
2:KB:131:GLN:O	2:KB:163:ILE:HG12	2.20	0.41
2:KB:257:LEU:HD11	2:KB:314:SER:HB2	2.03	0.41
2:KD:212:PHE:HZ	1:KE:326:LYS:CE	2.19	0.41
2:KD:391:ARG:HD2	2:KD:391:ARG:HA	1.79	0.41
1:LC:60:LYS:HB3	6:4A:101:ARG:CZ	2.24	0.41
1:LE:68:LEU:HD21	1:LE:118:CYS:SG	2.60	0.41
1:LE:93:ILE:H	1:LE:93:ILE:HD12	1.85	0.41
1:LE:217:LEU:HD23	1:LE:217:LEU:HA	1.93	0.41
2:LF:221:THR:CG2	6:4D:219:ASN:HD22	2.31	0.41
2:LF:224:ASP:CG	6:4D:219:ASN:HD21	2.26	0.41
2:LF:227:HIS:HE1	6:4D:226:ILE:HG13	1.78	0.41
1:MA:68:LEU:HD21	1:MA:118:CYS:SG	2.60	0.41
1:ME:259:LEU:HD11	1:ME:316:SER:HB3	2.02	0.41
2:MF:293:MET:HE3	2:MF:294:PHE:CD1	2.55	0.41
4:2B:16:GLN:O	4:2B:19:MET:HB2	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4A:105:GLU:OE2	6:4A:105:GLU:HA	2.17	0.41
6:4A:202:VAL:HA	6:4A:205:GLN:CD	2.46	0.41
6:4B:230:TYR:O	6:4B:230:TYR:CD2	2.73	0.41
7:5A:1391:GLN:HE21	7:5A:1391:GLN:HB3	1.64	0.41
7:5A:1436:ARG:CB	7:5A:1436:ARG:NH1	2.78	0.41
7:5B:1561:GLY:O	7:5B:1566:GLU:OE2	2.38	0.41
7:5C:827:GLU:HG3	7:5C:849:ARG:HH22	1.84	0.41
7:5C:1064:LYS:C	7:5C:1066:GLY:N	2.76	0.41
7:5C:1490:LYS:HD2	7:5C:1494:LEU:HD22	1.95	0.41
7:5C:1577:LYS:HE3	7:5C:1578:GLY:H	1.86	0.41
8:6B:19:VAL:HG11	8:6B:34:LEU:HD11	2.01	0.41
8:6C:75:ILE:HD13	8:6C:84:LEU:HD21	2.01	0.41
9:7A:10:TYR:OH	9:7B:34:PRO:CB	2.68	0.41
1:AA:287:SER:O	1:AA:291:ILE:HG23	2.21	0.41
2:AB:394:PHE:CD1	1:AC:261:PRO:HA	2.56	0.41
1:AC:68:LEU:HD21	1:AC:118:CYS:SG	2.60	0.41
1:AC:287:SER:O	1:AC:291:ILE:HG23	2.21	0.41
2:AD:268:ILE:HG13	2:AD:300:MET:HG3	2.02	0.41
2:AD:375:GLN:O	2:AD:379:LYS:HG3	2.20	0.41
1:AE:68:LEU:HD21	1:AE:118:CYS:SG	2.60	0.41
1:AE:212:ILE:HD11	1:AE:300:ASN:HA	2.03	0.41
2:AF:257:LEU:HD11	2:AF:314:SER:HB2	2.03	0.41
2:AF:380:ARG:HE	2:AF:380:ARG:HB3	1.72	0.41
1:BA:93:ILE:HD12	1:BA:93:ILE:H	1.85	0.41
1:BA:296:PHE:CE2	1:BA:335:ILE:HG21	2.55	0.41
2:BD:87:PRO:CD	2:CD:281:TYR:CE2	3.01	0.41
2:BD:268:ILE:HG13	2:BD:300:MET:HG3	2.02	0.41
1:CA:212:ILE:HD11	1:CA:300:ASN:HA	2.03	0.41
2:CB:293:MET:HE3	2:CB:294:PHE:CD1	2.55	0.41
1:CE:222:PRO:HG2	2:CF:324:LYS:HB2	2.02	0.41
1:DC:212:ILE:HD11	1:DC:300:ASN:HA	2.03	0.41
1:DC:224:TYR:CE2	2:DD:246:LEU:HD11	2.52	0.41
2:DD:131:GLN:O	2:DD:163:ILE:HG12	2.20	0.41
2:DD:179:VAL:HG22	1:DE:258:ASN:CG	2.46	0.41
1:DE:179:THR:O	2:DF:350:LYS:HA	2.20	0.41
1:DE:296:PHE:CE2	1:DE:335:ILE:HG21	2.56	0.41
2:DF:293:MET:HE3	2:DF:294:PHE:CD1	2.55	0.41
2:EB:179:VAL:HG22	1:EC:258:ASN:CG	2.46	0.41
1:EC:212:ILE:HD11	1:EC:300:ASN:HA	2.03	0.41
1:FA:212:ILE:HD11	1:FA:300:ASN:HA	2.03	0.41
1:FA:296:PHE:CE2	1:FA:335:ILE:HG21	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:402:ARG:HD3	7:5C:1259:TYR:CG	2.53	0.41
2:FB:262:ARG:NH1	2:FB:421:GLU:OE1	2.50	0.41
2:FB:293:MET:HE3	2:FB:294:PHE:CD1	2.55	0.41
13:FB:502:GDP:H8	1:FC:248:LEU:CD1	2.33	0.41
1:FC:68:LEU:HD21	1:FC:118:CYS:SG	2.60	0.41
1:FC:212:ILE:HD11	1:FC:300:ASN:HA	2.03	0.41
1:FE:68:LEU:HD21	1:FE:118:CYS:SG	2.60	0.41
2:FF:268:ILE:HG13	2:FF:300:MET:HG3	2.02	0.41
2:FF:375:GLN:O	2:FF:379:LYS:HG3	2.20	0.41
1:GA:259:LEU:HD11	1:GA:316:SER:HB3	2.02	0.41
2:GD:179:VAL:HG21	1:GE:258:ASN:CA	2.50	0.41
2:GD:220:PRO:HD2	1:GE:326:LYS:CG	2.44	0.41
2:GD:380:ARG:HE	2:GD:380:ARG:HB3	1.72	0.41
1:GE:226:ASN:ND2	1:GE:367:ASP:OD2	2.51	0.41
1:HA:328:VAL:O	1:HA:332:ILE:HG12	2.20	0.41
2:HB:268:ILE:HG13	2:HB:300:MET:HG3	2.02	0.41
2:HD:293:MET:HE1	2:HD:330:MET:HE1	2.02	0.41
2:HD:375:GLN:O	2:HD:379:LYS:HG3	2.20	0.41
2:HD:391:ARG:HD2	2:HD:391:ARG:HA	1.79	0.41
2:HF:293:MET:HE1	2:HF:330:MET:HE1	2.02	0.41
1:IA:296:PHE:CE2	1:IA:335:ILE:HG21	2.55	0.41
2:IB:44:LEU:HD23	2:IB:44:LEU:HA	1.93	0.41
2:IB:222:TYR:HD2	1:IC:247:ALA:HB1	1.82	0.41
2:IB:257:LEU:HD11	2:IB:314:SER:HB2	2.03	0.41
2:IB:390:ARG:CD	1:IC:439:THR:HG21	2.51	0.41
2:IB:394:PHE:CD1	1:IC:261:PRO:HA	2.55	0.41
1:IE:68:LEU:HD21	1:IE:118:CYS:SG	2.60	0.41
1:JA:287:SER:O	1:JA:291:ILE:HG23	2.21	0.41
2:JB:390:ARG:CD	1:JC:439:THR:HG21	2.51	0.41
1:JC:296:PHE:CE2	1:JC:335:ILE:HG21	2.56	0.41
2:JF:268:ILE:HG13	2:JF:300:MET:HG3	2.02	0.41
1:KA:68:LEU:HD21	1:KA:118:CYS:SG	2.60	0.41
1:KA:93:ILE:H	1:KA:93:ILE:HD12	1.85	0.41
2:KB:394:PHE:CD1	1:KC:261:PRO:HA	2.56	0.41
2:KD:268:ILE:HG13	2:KD:300:MET:HG3	2.02	0.41
2:KF:268:ILE:HG13	2:KF:300:MET:HG3	2.02	0.41
1:LA:68:LEU:HD21	1:LA:118:CYS:SG	2.60	0.41
2:LB:226:ASN:ND2	13:LB:501:GDP:HN1	2.12	0.41
2:LB:268:ILE:HG13	2:LB:300:MET:HG3	2.02	0.41
1:LC:68:LEU:HD21	1:LC:118:CYS:SG	2.60	0.41
1:LC:222:PRO:CG	2:LD:324:LYS:CB	2.96	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LF:294:PHE:O	4:2B:149:ILE:HG12	2.21	0.41
2:MB:257:LEU:HD11	2:MB:314:SER:HB2	2.03	0.41
1:MC:68:LEU:HD21	1:MC:118:CYS:SG	2.60	0.41
2:MD:257:LEU:HD11	2:MD:314:SER:HB2	2.03	0.41
2:MF:257:LEU:HD11	2:MF:314:SER:HB2	2.03	0.41
2:MF:375:GLN:O	2:MF:379:LYS:HG3	2.20	0.41
6:4B:113:ILE:H	6:4B:113:ILE:HG13	1.44	0.41
6:4C:202:VAL:HA	6:4C:205:GLN:CD	2.46	0.41
7:5A:772:LEU:HB3	7:5A:773:ARG:H	1.72	0.41
7:5A:1561:GLY:O	7:5A:1566:GLU:OE2	2.38	0.41
7:5B:772:LEU:HB3	7:5B:773:ARG:H	1.72	0.41
7:5C:836:ARG:HD2	7:5C:836:ARG:HA	1.42	0.41
7:5C:1370:LYS:HD3	7:5C:1370:LYS:HA	1.61	0.41
8:6B:23:ASP:OD2	8:6B:132:LYS:HE3	2.20	0.41
10:8E:13:UNK:C	10:8E:15:UNK:N	2.83	0.41
10:8N:13:UNK:C	10:8N:15:UNK:N	2.83	0.41
1:AA:68:LEU:HD21	1:AA:118:CYS:SG	2.60	0.41
1:AE:287:SER:O	1:AE:291:ILE:HG23	2.21	0.41
2:AF:276:ARG:HH12	6:4A:137:ASN:HB3	1.86	0.41
1:BC:226:ASN:ND2	1:BC:367:ASP:OD2	2.51	0.41
1:CC:226:ASN:ND2	1:CC:367:ASP:OD2	2.51	0.41
1:CE:71:GLU:OE2	1:CE:73:THR:OG1	2.28	0.41
1:CE:226:ASN:ND2	1:CE:367:ASP:OD2	2.51	0.41
2:DD:87:PRO:HD2	2:ED:281:TYR:CD2	2.56	0.41
1:DE:71:GLU:HA	1:DE:72:PRO:HD3	1.84	0.41
2:DF:131:GLN:O	2:DF:163:ILE:HG12	2.20	0.41
1:EA:212:ILE:HD11	1:EA:300:ASN:HA	2.03	0.41
1:EA:430:LYS:NZ	7:5C:834:ASN:CB	2.66	0.41
1:EC:71:GLU:HA	1:EC:72:PRO:HD3	1.85	0.41
1:EC:226:ASN:ND2	1:EC:367:ASP:OD2	2.51	0.41
2:ED:208:TYR:CE2	1:EE:326:LYS:HB3	2.55	0.41
1:FA:93:ILE:H	1:FA:93:ILE:HD12	1.85	0.41
1:GA:212:ILE:HD11	1:GA:300:ASN:HA	2.03	0.41
1:GA:226:ASN:ND2	1:GA:367:ASP:OD2	2.51	0.41
2:GB:375:GLN:O	2:GB:379:LYS:HG3	2.20	0.41
2:GD:68:LEU:HD12	2:GD:68:LEU:HA	1.90	0.41
1:GE:259:LEU:HD11	1:GE:316:SER:HB3	2.02	0.41
2:GF:131:GLN:O	2:GF:163:ILE:HG12	2.20	0.41
1:HA:71:GLU:OE2	1:HA:73:THR:OG1	2.28	0.41
2:HB:293:MET:HE3	2:HB:294:PHE:CD1	2.55	0.41
2:HB:293:MET:HE1	2:HB:330:MET:HE1	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HB:390:ARG:CD	1:HC:439:THR:HG21	2.51	0.41
1:HE:296:PHE:CE2	1:HE:335:ILE:HG21	2.55	0.41
1:IA:287:SER:O	1:IA:291:ILE:HG23	2.21	0.41
1:IA:356:ASN:OD1	1:IA:357:TYR:N	2.51	0.41
2:IB:375:GLN:O	2:IB:379:LYS:HG3	2.20	0.41
1:IE:328:VAL:O	1:IE:332:ILE:HG12	2.20	0.41
2:IF:293:MET:HE3	2:IF:294:PHE:CD1	2.56	0.41
2:JB:257:LEU:HD11	2:JB:314:SER:HB2	2.03	0.41
2:JD:268:ILE:HG13	2:JD:300:MET:HG3	2.02	0.41
1:JE:124:LYS:HD3	1:KE:284:GLU:OE1	2.18	0.41
1:JE:287:SER:O	1:JE:291:ILE:HG23	2.21	0.41
2:KB:268:ILE:HG13	2:KB:300:MET:HG3	2.02	0.41
2:KB:293:MET:HE1	2:KB:330:MET:HE1	2.02	0.41
2:KB:390:ARG:CD	1:KC:439:THR:HG21	2.51	0.41
2:KD:257:LEU:HD11	2:KD:314:SER:HB2	2.03	0.41
2:KD:293:MET:HE1	2:KD:330:MET:HE1	2.02	0.41
1:KE:68:LEU:HD21	1:KE:118:CYS:SG	2.60	0.41
1:KE:71:GLU:OE2	1:KE:73:THR:OG1	2.28	0.41
1:KE:401:LYS:HE3	1:KE:401:LYS:HB2	1.74	0.41
2:KF:125:GLU:CD	2:LF:332:ASN:HD21	2.17	0.41
2:KF:293:MET:HE1	2:KF:330:MET:HE1	2.02	0.41
1:LA:89:PRO:CA	1:MA:280:LYS:HZ2	2.34	0.41
2:LB:293:MET:HE3	2:LB:294:PHE:CD1	2.56	0.41
1:LE:248:LEU:HD12	1:LE:248:LEU:HA	1.89	0.41
1:MA:287:SER:O	1:MA:291:ILE:HG23	2.21	0.41
1:MA:328:VAL:O	1:MA:332:ILE:HG12	2.20	0.41
1:MC:93:ILE:HD12	1:MC:93:ILE:H	1.85	0.41
1:MC:259:LEU:HD11	1:MC:316:SER:HB3	2.02	0.41
5:3C:158:LEU:HD21	5:3C:243:PHE:CZ	2.56	0.41
6:4A:230:TYR:O	6:4A:230:TYR:CD2	2.73	0.41
6:4C:118:ILE:O	6:4C:121:ARG:HB2	2.21	0.41
6:4C:148:GLU:OE1	6:4C:148:GLU:HA	2.20	0.41
6:4D:139:ASP:HA	6:4D:140:PRO:HD3	1.85	0.41
7:5A:1416:LYS:HB2	7:5A:1416:LYS:HE2	1.63	0.41
7:5B:1370:LYS:CA	7:5B:1370:LYS:HE2	2.50	0.41
7:5B:1490:LYS:CE	7:5B:1494:LEU:CD2	2.98	0.41
7:5C:771:LEU:HB3	7:5C:772:LEU:H	1.64	0.41
7:5C:842:LEU:HD23	7:5C:843:LEU:CD2	2.43	0.41
7:5C:1105:TYR:CG	7:5C:1165:PRO:CA	2.84	0.41
7:5C:1316:LEU:HA	7:5C:1316:LEU:HD13	1.87	0.41
7:5C:1343:LYS:N	7:5C:1343:LYS:HD3	2.34	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5C:1561:GLY:O	7:5C:1566:GLU:OE2	2.38	0.41
10:8F:13:UNK:C	10:8F:15:UNK:N	2.83	0.41
1:BA:226:ASN:ND2	1:BA:367:ASP:OD2	2.51	0.41
1:BA:262:TYR:HB2	1:BA:265:ILE:HD12	2.02	0.41
1:BC:217:LEU:HD23	1:BC:217:LEU:HA	1.93	0.41
1:BE:124:LYS:HE2	1:BE:124:LYS:HB2	1.89	0.41
1:BE:221:ARG:NH1	2:BF:324:LYS:N	2.68	0.41
1:BE:287:SER:O	1:BE:291:ILE:HG23	2.21	0.41
2:BF:268:ILE:HG13	2:BF:300:MET:HG3	2.02	0.41
2:CD:293:MET:HE3	2:CD:294:PHE:CD1	2.55	0.41
1:CE:248:LEU:HD12	1:CE:248:LEU:HA	1.89	0.41
1:DA:248:LEU:HD12	1:DA:248:LEU:HA	1.89	0.41
2:DB:282:ARG:NH2	2:DB:292:GLN:OE1	2.54	0.41
2:DD:282:ARG:NH2	2:DD:292:GLN:OE1	2.54	0.41
2:DD:293:MET:HE3	2:DD:294:PHE:CD1	2.55	0.41
1:DE:226:ASN:ND2	1:DE:367:ASP:OD2	2.51	0.41
1:EA:296:PHE:CE2	1:EA:335:ILE:HG21	2.55	0.41
2:ED:179:VAL:HG22	1:EE:258:ASN:CG	2.46	0.41
2:ED:384:GLN:HB3	1:EE:348:PRO:HG2	2.03	0.41
1:EE:423:GLU:HG2	7:5B:832:ASN:HA	2.03	0.41
1:FA:68:LEU:HD21	1:FA:118:CYS:SG	2.60	0.41
2:FB:257:LEU:HD11	2:FB:314:SER:HB2	2.03	0.41
2:FD:293:MET:HE3	2:FD:294:PHE:CD1	2.55	0.41
2:FD:375:GLN:O	2:FD:379:LYS:HG3	2.20	0.41
1:FE:60:LYS:HD3	1:GE:283:HIS:CG	2.56	0.41
1:FE:212:ILE:HD11	1:FE:300:ASN:HA	2.03	0.41
1:FE:322:ASP:OD1	1:FE:373:ARG:NH1	2.52	0.41
2:GB:44:LEU:HD23	2:GB:44:LEU:HA	1.93	0.41
2:GB:390:ARG:CD	1:GC:439:THR:HG21	2.51	0.41
1:GC:226:ASN:ND2	1:GC:367:ASP:OD2	2.51	0.41
2:GD:220:PRO:HD2	1:GE:326:LYS:CE	2.44	0.41
2:GD:282:ARG:NH2	2:GD:292:GLN:OE1	2.54	0.41
1:GE:212:ILE:HD11	1:GE:300:ASN:HA	2.03	0.41
2:GF:257:LEU:HD11	2:GF:314:SER:HB2	2.03	0.41
1:HA:226:ASN:ND2	1:HA:367:ASP:OD2	2.51	0.41
2:HD:73:MET:HE1	2:HD:92:PHE:HB3	2.02	0.41
2:HD:293:MET:HE3	2:HD:294:PHE:CD1	2.55	0.41
2:HF:73:MET:HE1	2:HF:92:PHE:HB3	2.03	0.41
2:IB:86:ARG:NH1	2:JB:281:TYR:CA	2.64	0.41
1:IC:68:LEU:HD21	1:IC:118:CYS:SG	2.60	0.41
2:ID:257:LEU:HD11	2:ID:314:SER:HB2	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IF:257:LEU:HD11	2:IF:314:SER:HB2	2.02	0.41
2:JB:268:ILE:HG13	2:JB:300:MET:HG3	2.02	0.41
1:JC:287:SER:O	1:JC:291:ILE:HG23	2.21	0.41
1:KA:124:LYS:HB2	1:LA:293:ASN:ND2	2.35	0.41
2:KB:375:GLN:O	2:KB:379:LYS:HG3	2.20	0.41
1:KC:68:LEU:HD21	1:KC:118:CYS:SG	2.60	0.41
1:KE:328:VAL:O	1:KE:332:ILE:HG12	2.20	0.41
2:KF:276:ARG:NH2	6:4D:265:TYR:C	2.79	0.41
1:LA:71:GLU:OE2	1:LA:73:THR:OG1	2.29	0.41
2:LB:257:LEU:HD11	2:LB:314:SER:HB2	2.03	0.41
2:LD:257:LEU:HD11	2:LD:314:SER:HB2	2.03	0.41
2:LF:257:LEU:HD11	2:LF:314:SER:HB2	2.03	0.41
1:MA:259:LEU:HD11	1:MA:316:SER:HB3	2.02	0.41
2:MB:111:GLU:CD	3:1A:62:SER:HB2	2.45	0.41
2:MB:268:ILE:HG13	2:MB:300:MET:HG3	2.02	0.41
1:MC:210:TYR:CD1	2:MD:324:LYS:HD2	2.56	0.41
1:MC:287:SER:O	1:MC:291:ILE:HG23	2.21	0.41
1:MC:328:VAL:O	1:MC:332:ILE:HG12	2.20	0.41
2:MD:268:ILE:HG13	2:MD:300:MET:HG3	2.02	0.41
1:ME:68:LEU:HD21	1:ME:118:CYS:SG	2.60	0.41
1:ME:93:ILE:H	1:ME:93:ILE:HD12	1.85	0.41
1:ME:287:SER:O	1:ME:291:ILE:HG23	2.21	0.41
5:3A:158:LEU:HD21	5:3A:243:PHE:CZ	2.56	0.41
6:4A:148:GLU:OE1	6:4A:148:GLU:HA	2.20	0.41
6:4B:148:GLU:HA	6:4B:148:GLU:OE1	2.20	0.41
6:4C:105:GLU:OE2	6:4C:105:GLU:HA	2.17	0.41
7:5B:1548:VAL:HB	7:5B:1566:GLU:HA	1.92	0.41
7:5C:772:LEU:HB3	7:5C:773:ARG:H	1.72	0.41
7:5C:1471:ILE:H	7:5C:1471:ILE:CD1	2.18	0.41
8:6A:206:ASN:O	8:6A:214:LYS:HE2	2.20	0.41
8:6C:60:PHE:CZ	8:6C:243:ILE:HG12	2.55	0.41
10:8H:13:UNK:C	10:8H:15:UNK:N	2.83	0.41
10:8M:13:UNK:C	10:8M:15:UNK:N	2.83	0.41
10:8O:13:UNK:C	10:8O:15:UNK:N	2.83	0.41
10:8T:13:UNK:C	10:8T:15:UNK:N	2.83	0.41
10:8Z:13:UNK:C	10:8Z:15:UNK:N	2.83	0.41
2:AB:131:GLN:O	2:AB:163:ILE:HG12	2.20	0.41
2:AB:268:ILE:HG13	2:AB:300:MET:HG3	2.02	0.41
2:AD:257:LEU:HD11	2:AD:314:SER:HB2	2.03	0.41
2:BB:282:ARG:NH2	2:BB:292:GLN:OE1	2.54	0.41
1:BC:247:ALA:HB2	1:BC:357:TYR:OH	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:287:SER:O	1:BC:291:ILE:HG23	2.21	0.41
2:BD:257:LEU:HD11	2:BD:314:SER:HB2	2.03	0.41
2:BD:282:ARG:NH2	2:BD:292:GLN:OE1	2.54	0.41
2:BF:257:LEU:HD11	2:BF:314:SER:HB2	2.03	0.41
2:BF:375:GLN:O	2:BF:379:LYS:HG3	2.20	0.41
1:CA:226:ASN:ND2	1:CA:367:ASP:OD2	2.51	0.41
2:CD:177:ASP:CA	1:CE:353:VAL:HG12	2.51	0.41
2:DB:84:LEU:O	2:EB:281:TYR:OH	2.39	0.41
1:DE:68:LEU:HD21	1:DE:118:CYS:SG	2.60	0.41
1:DE:402:ARG:HE	7:5B:777:ALA:HB3	1.57	0.41
2:DF:293:MET:HE1	2:DF:330:MET:HE1	2.02	0.41
1:EA:226:ASN:ND2	1:EA:367:ASP:OD2	2.51	0.41
1:EA:401:LYS:HE3	1:EA:401:LYS:HB2	1.74	0.41
2:EB:257:LEU:HD11	2:EB:314:SER:HB2	2.03	0.41
2:EF:131:GLN:O	2:EF:163:ILE:HG12	2.20	0.41
2:FD:268:ILE:HG13	2:FD:300:MET:HG3	2.02	0.41
1:GA:68:LEU:HD21	1:GA:118:CYS:SG	2.60	0.41
1:GA:407:TRP:HE3	2:GB:255:VAL:HG13	0.97	0.41
1:GC:68:LEU:HD21	1:GC:118:CYS:SG	2.60	0.41
1:GC:259:LEU:HD11	1:GC:316:SER:HB3	2.02	0.41
2:GD:375:GLN:O	2:GD:379:LYS:HG3	2.20	0.41
1:GE:68:LEU:HD21	1:GE:118:CYS:SG	2.60	0.41
2:HB:257:LEU:HD11	2:HB:314:SER:HB2	2.03	0.41
2:HD:83:GLN:OE1	2:HD:83:GLN:HA	2.21	0.41
2:HF:83:GLN:OE1	2:HF:83:GLN:HA	2.21	0.41
2:HF:257:LEU:HD11	2:HF:314:SER:HB2	2.03	0.41
2:HF:375:GLN:O	2:HF:379:LYS:HG3	2.20	0.41
2:IB:268:ILE:HG13	2:IB:300:MET:HG3	2.02	0.41
1:IC:287:SER:O	1:IC:291:ILE:HG23	2.21	0.41
2:ID:268:ILE:HG13	2:ID:300:MET:HG3	2.02	0.41
2:ID:375:GLN:O	2:ID:379:LYS:HG3	2.20	0.41
1:IE:287:SER:O	1:IE:291:ILE:HG23	2.21	0.41
1:IE:389:SER:CB	5:3A:307:LYS:HB3	2.50	0.41
2:IF:56:GLY:HA2	10:9A:36:UNK:CA	2.49	0.41
1:JA:203:MET:HE2	1:JA:203:MET:HA	2.03	0.41
2:JF:257:LEU:HD11	2:JF:314:SER:HB2	2.03	0.41
1:KA:71:GLU:HA	1:KA:72:PRO:HD3	1.84	0.41
1:KA:85:GLN:O	1:LA:283:HIS:C	2.64	0.41
1:KA:328:VAL:O	1:KA:332:ILE:HG12	2.20	0.41
1:KC:247:ALA:HB2	1:KC:357:TYR:OH	2.21	0.41
1:KE:84:ARG:NH1	1:LE:283:HIS:NE2	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:226:ASN:ND2	1:LA:367:ASP:OD2	2.51	0.41
2:LB:270:PHE:CE2	6:4A:226:ILE:CG2	2.97	0.41
1:LC:89:PRO:HD3	1:MC:280:LYS:HZ2	0.63	0.41
1:LC:203:MET:HA	1:LC:203:MET:HE2	2.02	0.41
2:LD:293:MET:HE3	2:LD:294:PHE:CD1	2.56	0.41
1:LE:296:PHE:CE2	1:LE:335:ILE:HG21	2.55	0.41
1:MA:262:TYR:HB2	1:MA:265:ILE:HD12	2.02	0.41
5:3B:158:LEU:HD21	5:3B:243:PHE:CZ	2.55	0.41
6:4A:118:ILE:O	6:4A:121:ARG:HB2	2.21	0.41
6:4B:215:LYS:HE3	6:4B:215:LYS:HB2	1.47	0.41
6:4D:148:GLU:HA	6:4D:148:GLU:OE1	2.20	0.41
7:5A:1392:LEU:C	7:5A:1392:LEU:CD1	2.89	0.41
7:5A:1548:VAL:HB	7:5A:1566:GLU:CA	2.51	0.41
8:6B:206:ASN:O	8:6B:214:LYS:HE2	2.20	0.41
9:7B:2:PHE:HE1	9:7B:13:SER:HB3	1.85	0.41
9:7D:26:LEU:HD11	9:7D:34:PRO:HA	2.03	0.41
9:7E:36:GLN:CA	9:7F:43:LEU:CD2	2.86	0.41
10:8D:13:UNK:C	10:8D:15:UNK:N	2.83	0.41
10:8I:13:UNK:C	10:8I:15:UNK:N	2.83	0.41
10:8S:13:UNK:C	10:8S:15:UNK:N	2.83	0.41
10:8U:13:UNK:C	10:8U:15:UNK:N	2.83	0.41
10:8W:13:UNK:C	10:8W:15:UNK:N	2.83	0.41
10:9A:13:UNK:C	10:9A:15:UNK:N	2.83	0.41
1:AA:93:ILE:H	1:AA:93:ILE:HD12	1.85	0.41
1:AA:248:LEU:HD12	1:AA:248:LEU:HA	1.89	0.41
2:AB:257:LEU:HD11	2:AB:314:SER:HB2	2.03	0.41
1:AC:93:ILE:H	1:AC:93:ILE:HD12	1.85	0.41
1:AC:247:ALA:HB2	1:AC:357:TYR:OH	2.21	0.41
1:AC:401:LYS:HE3	1:AC:401:LYS:HB2	1.74	0.41
2:AD:68:LEU:HD12	2:AD:68:LEU:HA	1.90	0.41
2:AD:69:GLU:HA	2:AD:70:PRO:HD3	1.89	0.41
2:AD:220:PRO:HD2	1:AE:326:LYS:CE	2.44	0.41
2:AD:282:ARG:NH2	2:AD:292:GLN:OE1	2.54	0.41
1:AE:222:PRO:CG	2:AF:324:LYS:CD	2.95	0.41
1:AE:247:ALA:HB2	1:AE:357:TYR:OH	2.21	0.41
1:AE:398:MET:SD	2:AF:345:ILE:CG1	2.92	0.41
2:AF:131:GLN:O	2:AF:163:ILE:HG12	2.20	0.41
2:AF:375:GLN:O	2:AF:379:LYS:HG3	2.20	0.41
1:BA:247:ALA:HB2	1:BA:357:TYR:OH	2.21	0.41
1:BA:287:SER:O	1:BA:291:ILE:HG23	2.21	0.41
2:BB:257:LEU:HD11	2:BB:314:SER:HB2	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:293:MET:HE1	2:BB:330:MET:HE1	2.02	0.41
2:BB:390:ARG:CD	1:BC:439:THR:HG21	2.51	0.41
1:BC:398:MET:SD	2:BD:345:ILE:CG1	2.93	0.41
2:BD:293:MET:HE1	2:BD:330:MET:HE1	2.02	0.41
1:BE:247:ALA:HB2	1:BE:357:TYR:OH	2.21	0.41
2:BF:293:MET:HE1	2:BF:330:MET:HE1	2.02	0.41
1:CA:404:PHE:CE2	2:CB:345:ILE:HD11	2.56	0.41
1:CC:217:LEU:HD23	1:CC:217:LEU:HA	1.93	0.41
2:CD:176:SER:CB	1:CE:349:THR:HG1	2.34	0.41
1:CE:287:SER:O	1:CE:291:ILE:HG23	2.21	0.41
2:CF:44:LEU:HD23	2:CF:44:LEU:HA	1.93	0.41
2:CF:131:GLN:O	2:CF:163:ILE:HG12	2.20	0.41
2:CF:282:ARG:NH2	2:CF:292:GLN:OE1	2.54	0.41
2:CF:293:MET:HE3	2:CF:294:PHE:CD1	2.55	0.41
1:DA:68:LEU:HD21	1:DA:118:CYS:SG	2.60	0.41
1:DA:93:ILE:H	1:DA:93:ILE:HD12	1.85	0.41
1:DA:226:ASN:ND2	1:DA:367:ASP:OD2	2.51	0.41
2:DB:293:MET:HE3	2:DB:294:PHE:CD1	2.56	0.41
2:DB:293:MET:HE1	2:DB:330:MET:HE1	2.02	0.41
1:DC:226:ASN:ND2	1:DC:367:ASP:OD2	2.51	0.41
2:DD:83:GLN:HA	2:DD:83:GLN:OE1	2.21	0.41
2:DD:293:MET:HE1	2:DD:330:MET:HE1	2.02	0.41
2:DF:262:ARG:NH1	2:DF:421:GLU:OE1	2.50	0.41
2:DF:282:ARG:NH2	2:DF:292:GLN:OE1	2.54	0.41
2:DF:375:GLN:O	2:DF:379:LYS:HG3	2.20	0.41
1:EA:217:LEU:HD23	1:EA:217:LEU:HA	1.93	0.41
2:EB:222:TYR:CE2	1:EC:325:PRO:CG	3.04	0.41
2:EB:325:GLU:HA	2:EB:328:GLU:HG2	2.02	0.41
1:EC:296:PHE:CE2	1:EC:335:ILE:HG21	2.55	0.41
2:ED:131:GLN:O	2:ED:163:ILE:HG12	2.20	0.41
2:ED:257:LEU:HD11	2:ED:314:SER:HB2	2.03	0.41
1:EE:248:LEU:HD12	1:EE:248:LEU:HA	1.89	0.41
1:EE:296:PHE:CE2	1:EE:335:ILE:HG21	2.55	0.41
1:EE:402:ARG:CD	7:5B:824:ARG:NH2	2.75	0.41
2:EF:257:LEU:HD11	2:EF:314:SER:HB2	2.03	0.41
2:EF:282:ARG:NH2	2:EF:292:GLN:OE1	2.54	0.41
1:FA:420:GLU:HA	7:5C:1256:ARG:HH22	1.86	0.41
2:FB:73:MET:HE1	2:FB:92:PHE:HB3	2.03	0.41
2:FB:268:ILE:HG13	2:FB:300:MET:HG3	2.02	0.41
2:FB:325:GLU:HA	2:FB:328:GLU:HG2	2.03	0.41
2:FB:375:GLN:O	2:FB:379:LYS:HG3	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FC:93:ILE:H	1:FC:93:ILE:HD12	1.85	0.41
1:FC:98:ASP:CG	1:FC:100:ALA:H	2.29	0.41
1:FC:221:ARG:HH11	2:FD:325:GLU:H	1.69	0.41
2:FD:83:GLN:OE1	2:FD:83:GLN:HA	2.21	0.41
2:FD:86:ARG:HD2	2:GD:281:TYR:HD1	1.52	0.41
2:FD:257:LEU:HD11	2:FD:314:SER:HB2	2.03	0.41
2:FD:325:GLU:HA	2:FD:328:GLU:HG2	2.02	0.41
1:FE:221:ARG:HH11	2:FF:325:GLU:H	1.69	0.41
2:FF:257:LEU:HD11	2:FF:314:SER:HB2	2.03	0.41
2:FF:293:MET:HE3	2:FF:294:PHE:CD1	2.55	0.41
2:GB:73:MET:HE1	2:GB:92:PHE:HB3	2.03	0.41
2:GB:257:LEU:HD11	2:GB:314:SER:HB2	2.03	0.41
2:GB:268:ILE:HG13	2:GB:300:MET:HG3	2.02	0.41
2:GB:282:ARG:NH2	2:GB:292:GLN:OE1	2.54	0.41
2:GB:293:MET:HE1	2:GB:330:MET:HE1	2.02	0.41
2:GB:325:GLU:HA	2:GB:328:GLU:HG2	2.02	0.41
2:GD:73:MET:HE1	2:GD:92:PHE:HB3	2.03	0.41
2:GD:257:LEU:HD11	2:GD:314:SER:HB2	2.03	0.41
2:GD:268:ILE:HG13	2:GD:300:MET:HG3	2.02	0.41
2:GD:293:MET:HE1	2:GD:330:MET:HE1	2.02	0.41
2:GD:293:MET:HE3	2:GD:294:PHE:CD1	2.55	0.41
2:GF:73:MET:HE1	2:GF:92:PHE:HB3	2.03	0.41
2:GF:282:ARG:NH2	2:GF:292:GLN:OE1	2.54	0.41
2:GF:293:MET:HE3	2:GF:294:PHE:CD1	2.55	0.41
2:GF:325:GLU:HA	2:GF:328:GLU:HG2	2.02	0.41
1:HA:203:MET:HE2	1:HA:203:MET:HA	2.03	0.41
2:HB:73:MET:HE1	2:HB:92:PHE:HB3	2.03	0.41
2:HB:83:GLN:OE1	2:HB:83:GLN:HA	2.21	0.41
2:HD:257:LEU:HD11	2:HD:314:SER:HB2	2.03	0.41
2:HD:282:ARG:NH2	2:HD:292:GLN:OE1	2.54	0.41
1:HE:248:LEU:HD12	1:HE:248:LEU:HA	1.89	0.41
1:HE:278:ALA:CB	10:8U:21:UNK:C	2.94	0.41
2:HF:282:ARG:NH2	2:HF:292:GLN:OE1	2.54	0.41
1:IA:68:LEU:HD21	1:IA:118:CYS:SG	2.60	0.41
1:IA:203:MET:HE2	1:IA:203:MET:HA	2.03	0.41
1:IA:262:TYR:HB2	1:IA:265:ILE:HD12	2.02	0.41
1:IC:296:PHE:CE2	1:IC:335:ILE:HG21	2.55	0.41
1:IC:356:ASN:OD1	1:IC:357:TYR:N	2.51	0.41
2:ID:282:ARG:NH2	2:ID:292:GLN:OE1	2.54	0.41
1:IE:203:MET:HE2	1:IE:203:MET:HA	2.03	0.41
1:IE:356:ASN:OD1	1:IE:357:TYR:N	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IF:268:ILE:HG13	2:IF:300:MET:HG3	2.02	0.41
2:IF:282:ARG:NH2	2:IF:292:GLN:OE1	2.54	0.41
2:IF:375:GLN:O	2:IF:379:LYS:HG3	2.20	0.41
1:JA:212:ILE:HD11	1:JA:300:ASN:HA	2.03	0.41
1:JA:401:LYS:HE3	1:JA:401:LYS:HB2	1.74	0.41
2:JB:282:ARG:NH2	2:JB:292:GLN:OE1	2.54	0.41
1:JC:203:MET:HE2	1:JC:203:MET:HA	2.03	0.41
1:JC:212:ILE:HD11	1:JC:300:ASN:HA	2.03	0.41
2:JD:257:LEU:HD11	2:JD:314:SER:HB2	2.03	0.41
2:JD:282:ARG:NH2	2:JD:292:GLN:OE1	2.54	0.41
1:JE:164:LYS:HA	1:JE:164:LYS:HD3	1.85	0.41
1:JE:203:MET:HE2	1:JE:203:MET:HA	2.03	0.41
2:JF:282:ARG:NH2	2:JF:292:GLN:OE1	2.54	0.41
1:KA:87:PHE:O	1:LA:284:GLU:CB	2.67	0.41
1:KA:88:HIS:ND1	1:LA:284:GLU:CD	2.78	0.41
1:KA:247:ALA:HB2	1:KA:357:TYR:OH	2.21	0.41
1:KA:287:SER:O	1:KA:291:ILE:HG23	2.21	0.41
2:KB:179:VAL:HG23	1:KC:258:ASN:HA	2.00	0.41
2:KB:335:ASN:HD22	7:5C:1506:ILE:HD13	1.77	0.41
1:KC:287:SER:O	1:KC:291:ILE:HG23	2.21	0.41
1:KC:328:VAL:O	1:KC:332:ILE:HG12	2.20	0.41
2:KD:179:VAL:HG21	1:KE:258:ASN:CA	2.50	0.41
2:KD:282:ARG:NH2	2:KD:292:GLN:OE1	2.54	0.41
2:KD:375:GLN:O	2:KD:379:LYS:HG3	2.20	0.41
1:KE:203:MET:HE2	1:KE:203:MET:HA	2.03	0.41
1:KE:247:ALA:HB2	1:KE:357:TYR:OH	2.21	0.41
1:KE:287:SER:O	1:KE:291:ILE:HG23	2.21	0.41
2:KF:73:MET:HE1	2:KF:92:PHE:HB3	2.03	0.41
2:KF:125:GLU:HG3	2:LF:336:LYS:HE3	1.77	0.41
2:KF:375:GLN:O	2:KF:379:LYS:HG3	2.20	0.41
1:LA:89:PRO:HG3	1:MA:280:LYS:CG	2.47	0.41
1:LA:203:MET:HA	1:LA:203:MET:HE2	2.03	0.41
1:LA:222:PRO:CG	2:LB:324:LYS:HB2	2.41	0.41
1:LA:247:ALA:HB2	1:LA:357:TYR:OH	2.21	0.41
2:LB:83:GLN:HA	2:LB:83:GLN:OE1	2.21	0.41
1:LC:56:THR:O	1:MC:285:GLN:CB	2.68	0.41
2:LD:83:GLN:HA	2:LD:83:GLN:OE1	2.21	0.41
1:LE:71:GLU:HA	1:LE:72:PRO:HD3	1.84	0.41
2:LF:282:ARG:NH2	2:LF:292:GLN:OE1	2.54	0.41
2:LF:293:MET:HE3	2:LF:294:PHE:CD1	2.55	0.41
1:MA:247:ALA:HB2	1:MA:357:TYR:OH	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MB:83:GLN:HA	2:MB:83:GLN:OE1	2.21	0.41
2:MB:131:GLN:O	2:MB:163:ILE:HG12	2.20	0.41
2:MB:293:MET:HE1	2:MB:330:MET:HE1	2.02	0.41
2:MB:391:ARG:HA	2:MB:391:ARG:HD2	1.79	0.41
1:MC:164:LYS:HA	1:MC:164:LYS:HD3	1.85	0.41
1:MC:247:ALA:HB2	1:MC:357:TYR:OH	2.21	0.41
1:MC:282:TYR:CE1	6:4A:98:PRO:HB3	2.55	0.41
1:MC:398:MET:SD	2:MD:345:ILE:CG1	2.91	0.41
2:MD:83:GLN:HA	2:MD:83:GLN:OE1	2.21	0.41
2:MD:221:THR:CG2	6:4B:189:ARG:CZ	2.79	0.41
2:MD:293:MET:HE1	2:MD:330:MET:HE1	2.02	0.41
1:ME:124:LYS:HE2	1:ME:124:LYS:HB2	1.89	0.41
1:ME:247:ALA:HB2	1:ME:357:TYR:OH	2.21	0.41
1:ME:328:VAL:O	1:ME:332:ILE:HG12	2.20	0.41
2:MF:79:GLY:CA	6:4D:179:ARG:HD3	2.45	0.41
2:MF:83:GLN:OE1	2:MF:83:GLN:HA	2.21	0.41
2:MF:268:ILE:HG13	2:MF:300:MET:HG3	2.02	0.41
3:1A:23:LEU:HD13	3:1A:39:MET:HE2	2.03	0.41
3:1B:23:LEU:HD13	3:1B:39:MET:HE2	2.03	0.41
3:1C:23:LEU:HD13	3:1C:39:MET:HE2	2.03	0.41
6:4C:230:TYR:O	6:4C:230:TYR:CD2	2.73	0.41
6:4D:113:ILE:H	6:4D:113:ILE:HG13	1.44	0.41
6:4D:193:MET:HE3	6:4D:193:MET:HB3	1.83	0.41
7:5A:771:LEU:HB3	7:5A:772:LEU:H	1.64	0.41
7:5A:836:ARG:CG	7:5A:836:ARG:NH1	2.71	0.41
7:5A:1343:LYS:N	7:5A:1343:LYS:HD3	2.35	0.41
7:5A:1370:LYS:CA	7:5A:1370:LYS:HE2	2.50	0.41
7:5A:1408:GLU:OE1	7:5A:1408:GLU:CA	2.69	0.41
7:5A:1410:ASN:HD21	7:5A:1414:ILE:HD13	1.85	0.41
7:5A:1511:ILE:CD1	7:5A:1517:SER:HB3	2.50	0.41
7:5A:1544:ILE:N	7:5A:1573:ARG:CD	2.84	0.41
7:5B:1391:GLN:HE21	7:5B:1391:GLN:HB3	1.64	0.41
7:5B:1410:ASN:HD21	7:5B:1414:ILE:HD13	1.86	0.41
7:5B:1511:ILE:CD1	7:5B:1517:SER:HB3	2.50	0.41
7:5B:1544:ILE:N	7:5B:1573:ARG:CD	2.84	0.41
7:5B:1548:VAL:HB	7:5B:1566:GLU:CA	2.51	0.41
7:5C:839:GLU:OE2	8:6C:109:ILE:HG13	2.20	0.41
7:5C:1406:PHE:HA	7:5C:1409:PHE:HB3	2.02	0.41
7:5C:1408:GLU:OE1	7:5C:1408:GLU:CA	2.69	0.41
7:5C:1511:ILE:CD1	7:5C:1517:SER:HB3	2.50	0.41
8:6C:53:ALA:HB2	8:6C:174:THR:HG23	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:6C:202:GLU:OE1	8:6C:217:ASN:N	2.34	0.41
9:7A:18:VAL:HG12	9:7A:42:LEU:HD21	1.95	0.41
9:7A:35:ILE:CG2	9:7B:42:LEU:C	2.90	0.41
9:7C:35:ILE:CG2	9:7D:42:LEU:C	2.90	0.41
9:7F:26:LEU:HD11	9:7F:34:PRO:HA	2.03	0.41
10:8G:13:UNK:C	10:8G:15:UNK:N	2.83	0.41
10:8V:13:UNK:C	10:8V:15:UNK:N	2.83	0.41
10:8X:13:UNK:C	10:8X:15:UNK:N	2.83	0.41
10:8Y:13:UNK:C	10:8Y:15:UNK:N	2.83	0.41
1:AA:203:MET:HE2	1:AA:203:MET:HA	2.03	0.41
1:AA:247:ALA:HB2	1:AA:357:TYR:OH	2.21	0.41
2:AB:83:GLN:HA	2:AB:83:GLN:OE1	2.21	0.41
2:AB:282:ARG:NH2	2:AB:292:GLN:OE1	2.54	0.41
2:AB:390:ARG:CD	1:AC:439:THR:HG21	2.51	0.41
2:AD:131:GLN:O	2:AD:163:ILE:HG12	2.20	0.41
2:AF:282:ARG:NH2	2:AF:292:GLN:OE1	2.54	0.41
2:AF:293:MET:HE1	2:AF:330:MET:HE1	2.02	0.41
2:BB:131:GLN:O	2:BB:163:ILE:HG12	2.20	0.41
1:BC:124:LYS:HE2	1:BC:124:LYS:HB2	1.89	0.41
1:BC:203:MET:HA	1:BC:203:MET:HE2	2.02	0.41
2:BD:69:GLU:HA	2:BD:70:PRO:HD3	1.89	0.41
2:BD:375:GLN:O	2:BD:379:LYS:HG3	2.20	0.41
1:BE:68:LEU:HD21	1:BE:118:CYS:SG	2.60	0.41
1:BE:115:VAL:HG22	1:BE:119:LEU:HD23	2.04	0.41
2:BF:282:ARG:NH2	2:BF:292:GLN:OE1	2.54	0.41
2:CB:179:VAL:HG21	1:CC:258:ASN:CA	2.49	0.41
2:CD:44:LEU:HD23	2:CD:44:LEU:HA	1.93	0.41
2:CD:257:LEU:HD11	2:CD:314:SER:HB2	2.03	0.41
1:CE:68:LEU:HD21	1:CE:118:CYS:SG	2.60	0.41
2:CF:257:LEU:HD11	2:CF:314:SER:HB2	2.03	0.41
2:CF:325:GLU:HA	2:CF:328:GLU:HG2	2.02	0.41
1:DA:217:LEU:HD23	1:DA:217:LEU:HA	1.93	0.41
1:DA:222:PRO:HG2	2:DB:324:LYS:HB2	2.03	0.41
2:DB:257:LEU:HD11	2:DB:314:SER:HB2	2.03	0.41
1:DC:68:LEU:HD21	1:DC:118:CYS:SG	2.60	0.41
1:DC:205:ASP:OD1	1:DC:303:ALA:HA	2.22	0.41
1:DC:400:ALA:O	7:5A:775:PRO:CA	2.67	0.41
2:DD:375:GLN:O	2:DD:379:LYS:HG3	2.20	0.41
2:DD:391:ARG:HD2	2:DD:391:ARG:HA	1.79	0.41
1:DE:93:ILE:H	1:DE:93:ILE:HD12	1.85	0.41
1:EA:71:GLU:HA	1:EA:72:PRO:HD3	1.84	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:181:VAL:HG21	2:EB:256:ASN:O	2.21	0.41
2:EB:131:GLN:O	2:EB:163:ILE:HG12	2.20	0.41
2:EB:293:MET:HE1	2:EB:330:MET:HE1	2.02	0.41
2:ED:325:GLU:HA	2:ED:328:GLU:HG2	2.03	0.41
1:EE:68:LEU:HD21	1:EE:118:CYS:SG	2.60	0.41
2:EF:73:MET:HE1	2:EF:92:PHE:HB3	2.02	0.41
2:FF:73:MET:HE1	2:FF:92:PHE:HB3	2.03	0.41
2:FF:325:GLU:HA	2:FF:328:GLU:HG2	2.02	0.41
2:GD:325:GLU:HA	2:GD:328:GLU:HG2	2.03	0.41
1:GE:262:TYR:HB2	1:GE:265:ILE:HD12	2.02	0.41
2:GF:83:GLN:OE1	2:GF:83:GLN:HA	2.21	0.41
2:GF:375:GLN:O	2:GF:379:LYS:HG3	2.20	0.41
2:HB:282:ARG:NH2	2:HB:292:GLN:OE1	2.54	0.41
1:HC:203:MET:HE2	1:HC:203:MET:HA	2.03	0.41
1:HC:226:ASN:ND2	1:HC:367:ASP:OD2	2.51	0.41
1:HC:296:PHE:CE2	1:HC:335:ILE:HG21	2.55	0.41
1:HE:203:MET:HE2	1:HE:203:MET:HA	2.03	0.41
1:HE:212:ILE:HD11	1:HE:300:ASN:HA	2.03	0.41
1:HE:226:ASN:ND2	1:HE:367:ASP:OD2	2.51	0.41
2:HF:380:ARG:HE	2:HF:380:ARG:HB3	1.72	0.41
2:IB:83:GLN:OE1	2:IB:83:GLN:HA	2.21	0.41
2:IB:282:ARG:NH2	2:IB:292:GLN:OE1	2.54	0.41
2:IB:325:GLU:HA	2:IB:328:GLU:HG2	2.02	0.41
1:IC:60:LYS:HZ3	1:JC:283:HIS:CD2	2.38	0.41
1:IC:203:MET:HE2	1:IC:203:MET:HA	2.03	0.41
1:IC:262:TYR:HB2	1:IC:265:ILE:HD12	2.02	0.41
2:ID:83:GLN:OE1	2:ID:83:GLN:HA	2.21	0.41
2:ID:390:ARG:CD	1:IE:439:THR:HG21	2.51	0.41
1:IE:296:PHE:CE2	1:IE:335:ILE:HG21	2.55	0.41
2:JB:83:GLN:HA	2:JB:83:GLN:OE1	2.21	0.41
2:JB:375:GLN:O	2:JB:379:LYS:HG3	2.20	0.41
1:JE:90:GLU:CB	1:KE:280:LYS:CD	2.67	0.41
2:JF:83:GLN:HA	2:JF:83:GLN:OE1	2.21	0.41
2:JF:293:MET:HE1	2:JF:330:MET:HE1	2.02	0.41
1:KA:203:MET:HE2	1:KA:203:MET:HA	2.03	0.41
2:KB:83:GLN:HA	2:KB:83:GLN:OE1	2.21	0.41
2:KB:282:ARG:NH2	2:KB:292:GLN:OE1	2.54	0.41
1:KC:79:ARG:HD2	1:LC:280:LYS:HD2	2.03	0.41
2:KD:73:MET:HE1	2:KD:92:PHE:HB3	2.03	0.41
2:KD:273:LEU:HA	6:4B:268:LEU:HG	1.97	0.41
2:KD:390:ARG:CD	1:KE:439:THR:HG21	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:85:GLN:HA	1:LE:283:HIS:HD2	1.82	0.41
1:LA:287:SER:O	1:LA:291:ILE:HG23	2.21	0.41
1:LA:296:PHE:CE2	1:LA:335:ILE:HG21	2.55	0.41
2:LB:383:GLU:OE1	4:2C:164:ARG:NH1	2.54	0.41
1:LC:226:ASN:ND2	1:LC:367:ASP:OD2	2.51	0.41
1:LC:247:ALA:HB2	1:LC:357:TYR:OH	2.21	0.41
1:LC:287:SER:O	1:LC:291:ILE:HG23	2.21	0.41
1:LC:296:PHE:CE2	1:LC:335:ILE:HG21	2.55	0.41
2:LD:73:MET:HE1	2:LD:92:PHE:HB3	2.03	0.41
1:LE:203:MET:HA	1:LE:203:MET:HE2	2.03	0.41
2:LF:83:GLN:HA	2:LF:83:GLN:OE1	2.21	0.41
1:MA:212:ILE:HD11	1:MA:300:ASN:HA	2.03	0.41
1:MC:212:ILE:HD11	1:MC:300:ASN:HA	2.03	0.41
1:MC:282:TYR:CD2	6:4A:104:ARG:CZ	2.65	0.41
1:ME:203:MET:HA	1:ME:203:MET:HE2	2.03	0.41
2:MF:293:MET:HE1	2:MF:330:MET:HE1	2.02	0.41
4:2A:149:ILE:O	4:2A:151:VAL:N	2.53	0.41
4:2C:149:ILE:O	4:2C:151:VAL:N	2.54	0.41
6:4A:219:ASN:HA	6:4A:219:ASN:HD22	1.53	0.41
6:4B:118:ILE:O	6:4B:121:ARG:HB2	2.21	0.41
6:4C:161:LYS:C	6:4C:161:LYS:CD	2.93	0.41
6:4D:118:ILE:O	6:4D:121:ARG:HB2	2.21	0.41
7:5A:842:LEU:HD23	7:5A:843:LEU:CD2	2.43	0.41
7:5A:1406:PHE:HA	7:5A:1409:PHE:HB3	2.02	0.41
7:5A:1419:GLU:OE1	7:5A:1419:GLU:CA	2.69	0.41
7:5B:1419:GLU:OE1	7:5B:1419:GLU:CA	2.69	0.41
7:5C:1061:ILE:O	7:5C:1065:LYS:HG3	2.20	0.41
7:5C:1544:ILE:N	7:5C:1573:ARG:CD	2.84	0.41
9:7B:18:VAL:HG11	9:7B:42:LEU:HD22	2.00	0.41
9:7D:2:PHE:HE1	9:7D:13:SER:HB3	1.85	0.41
9:7E:15:VAL:CG1	9:7F:35:ILE:HA	2.50	0.41
2:AD:83:GLN:HA	2:AD:83:GLN:OE1	2.21	0.40
2:AD:293:MET:HE1	2:AD:330:MET:HE1	2.02	0.40
2:AF:83:GLN:HA	2:AF:83:GLN:OE1	2.21	0.40
2:AF:224:ASP:OD1	6:4A:132:LYS:CA	2.63	0.40
1:BA:115:VAL:HG22	1:BA:119:LEU:HD23	2.04	0.40
1:BC:60:LYS:NZ	1:CC:283:HIS:CE1	2.89	0.40
1:BC:115:VAL:HG22	1:BC:119:LEU:HD23	2.04	0.40
1:BC:262:TYR:HB2	1:BC:265:ILE:HD12	2.02	0.40
1:BE:203:MET:HA	1:BE:203:MET:HE2	2.03	0.40
1:BE:217:LEU:HD23	1:BE:217:LEU:HA	1.93	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:203:MET:HA	1:CA:203:MET:HE2	2.03	0.40
1:CA:287:SER:O	1:CA:291:ILE:HG23	2.21	0.40
2:CB:87:PRO:HD3	2:DB:281:TYR:CZ	2.53	0.40
2:CD:131:GLN:O	2:CD:163:ILE:HG12	2.20	0.40
2:CD:282:ARG:NH2	2:CD:292:GLN:OE1	2.54	0.40
1:CE:115:VAL:HG22	1:CE:119:LEU:HD23	2.04	0.40
1:CE:217:LEU:HD23	1:CE:217:LEU:HA	1.92	0.40
1:DA:205:ASP:OD1	1:DA:303:ALA:HA	2.22	0.40
2:DB:83:GLN:HA	2:DB:83:GLN:OE1	2.21	0.40
1:DC:93:ILE:H	1:DC:93:ILE:HD12	1.85	0.40
1:DC:248:LEU:HD12	1:DC:248:LEU:HA	1.89	0.40
1:DC:402:ARG:HD2	7:5A:777:ALA:HB1	2.03	0.40
1:DE:205:ASP:OD1	1:DE:303:ALA:HA	2.22	0.40
2:DF:83:GLN:HA	2:DF:83:GLN:OE1	2.21	0.40
1:EA:115:VAL:HG22	1:EA:119:LEU:HD23	2.04	0.40
2:ED:282:ARG:NH2	2:ED:292:GLN:OE1	2.54	0.40
1:FC:89:PRO:CB	1:GC:280:LYS:HZ1	2.32	0.40
1:FC:203:MET:HE2	1:FC:203:MET:HA	2.03	0.40
1:FE:56:THR:OG1	1:GE:284:GLU:C	2.64	0.40
1:FE:93:ILE:H	1:FE:93:ILE:HD12	1.85	0.40
1:FE:98:ASP:CG	1:FE:100:ALA:H	2.29	0.40
1:FE:203:MET:HE2	1:FE:203:MET:HA	2.03	0.40
2:GB:293:MET:HE3	2:GB:294:PHE:CD1	2.55	0.40
2:GF:293:MET:HE1	2:GF:330:MET:HE1	2.02	0.40
2:HB:325:GLU:HA	2:HB:328:GLU:HG2	2.02	0.40
1:HC:212:ILE:HD11	1:HC:300:ASN:HA	2.03	0.40
2:HF:293:MET:HE3	2:HF:294:PHE:CD1	2.56	0.40
2:IF:83:GLN:OE1	2:IF:83:GLN:HA	2.21	0.40
2:JD:83:GLN:HA	2:JD:83:GLN:OE1	2.21	0.40
1:JE:90:GLU:OE2	1:KE:276:ILE:HD11	2.21	0.40
1:JE:247:ALA:HB2	1:JE:357:TYR:OH	2.21	0.40
2:KB:220:PRO:HD2	1:KC:326:LYS:CE	2.44	0.40
1:KC:203:MET:HE2	1:KC:203:MET:HA	2.03	0.40
2:KD:127:CYS:HB2	4:2A:38:VAL:HG21	1.34	0.40
2:KF:282:ARG:NH2	2:KF:292:GLN:OE1	2.54	0.40
1:LA:89:PRO:CB	1:MA:280:LYS:HZ2	2.34	0.40
2:LB:73:MET:HE1	2:LB:92:PHE:HB3	2.03	0.40
2:LB:131:GLN:O	2:LB:163:ILE:HG12	2.20	0.40
2:LD:282:ARG:NH2	2:LD:292:GLN:OE1	2.54	0.40
1:LE:287:SER:O	1:LE:291:ILE:HG23	2.21	0.40
2:LF:73:MET:HE1	2:LF:92:PHE:HB3	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MA:203:MET:HE2	1:MA:203:MET:HA	2.03	0.40
1:MC:203:MET:HE2	1:MC:203:MET:HA	2.03	0.40
1:MC:262:TYR:HB2	1:MC:265:ILE:HD12	2.02	0.40
1:ME:212:ILE:HD11	1:ME:300:ASN:HA	2.03	0.40
4:2C:16:GLN:CA	4:2C:19:MET:CB	2.30	0.40
6:4A:161:LYS:C	6:4A:161:LYS:CD	2.93	0.40
7:5A:1061:ILE:O	7:5A:1065:LYS:HG3	2.20	0.40
7:5A:1386:LYS:N	7:5A:1386:LYS:HZ3	2.19	0.40
7:5B:1343:LYS:N	7:5B:1343:LYS:HD3	2.35	0.40
7:5B:1392:LEU:C	7:5B:1392:LEU:CD1	2.89	0.40
7:5C:1271:ILE:H	7:5C:1271:ILE:HG13	1.43	0.40
7:5C:1410:ASN:HD21	7:5C:1414:ILE:HD13	1.86	0.40
7:5C:1419:GLU:OE1	7:5C:1419:GLU:CA	2.69	0.40
7:5C:1436:ARG:CB	7:5C:1436:ARG:NH1	2.78	0.40
8:6A:75:ILE:HD13	8:6A:84:LEU:HD21	2.01	0.40
8:6A:129:VAL:HG21	8:6A:141:GLU:HB2	2.03	0.40
8:6B:129:VAL:HG21	8:6B:141:GLU:HB2	2.03	0.40
9:7B:26:LEU:HD11	9:7B:34:PRO:HA	2.03	0.40
9:7F:2:PHE:HE1	9:7F:13:SER:HB3	1.85	0.40
2:AB:293:MET:HE1	2:AB:330:MET:HE1	2.02	0.40
1:AC:203:MET:HE2	1:AC:203:MET:HA	2.03	0.40
2:AF:359:LYS:O	6:4A:136:HIS:CD2	2.73	0.40
1:BA:203:MET:HE2	1:BA:203:MET:HA	2.02	0.40
2:BB:375:GLN:O	2:BB:379:LYS:HG3	2.20	0.40
1:BC:68:LEU:HD21	1:BC:118:CYS:SG	2.60	0.40
2:BD:131:GLN:O	2:BD:163:ILE:HG12	2.20	0.40
1:CA:68:LEU:HD21	1:CA:118:CYS:SG	2.60	0.40
1:CA:115:VAL:HG22	1:CA:119:LEU:HD23	2.04	0.40
2:CB:131:GLN:O	2:CB:163:ILE:HG12	2.20	0.40
2:CB:257:LEU:HD11	2:CB:314:SER:HB2	2.03	0.40
1:CC:287:SER:O	1:CC:291:ILE:HG23	2.21	0.40
1:CC:404:PHE:CE2	2:CD:345:ILE:HD11	2.57	0.40
2:CF:68:LEU:HD12	2:CF:68:LEU:HA	1.90	0.40
2:DB:87:PRO:CD	2:EB:281:TYR:CE2	3.04	0.40
2:DB:325:GLU:HA	2:DB:328:GLU:HG2	2.02	0.40
1:DE:287:SER:O	1:DE:291:ILE:HG23	2.21	0.40
2:DF:87:PRO:HA	2:DF:90:PHE:HD2	1.86	0.40
1:EA:247:ALA:HB2	1:EA:357:TYR:OH	2.21	0.40
2:EB:73:MET:HE1	2:EB:92:PHE:HB3	2.03	0.40
2:EB:282:ARG:NH2	2:EB:292:GLN:OE1	2.54	0.40
1:EC:68:LEU:HD21	1:EC:118:CYS:SG	2.60	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EC:115:VAL:HG22	1:EC:119:LEU:HD23	2.04	0.40
1:EC:203:MET:HA	1:EC:203:MET:HE2	2.02	0.40
1:EC:247:ALA:HB2	1:EC:357:TYR:OH	2.21	0.40
2:ED:293:MET:HE1	2:ED:330:MET:HE1	2.02	0.40
1:EE:203:MET:HA	1:EE:203:MET:HE2	2.03	0.40
1:EE:222:PRO:HG3	2:EF:324:LYS:HD3	1.96	0.40
2:EF:325:GLU:HA	2:EF:328:GLU:HG2	2.03	0.40
1:FA:420:GLU:HA	7:5C:1256:ARG:NH2	2.37	0.40
2:FB:83:GLN:HA	2:FB:83:GLN:OE1	2.21	0.40
1:FC:205:ASP:OD1	1:FC:303:ALA:HA	2.22	0.40
1:FC:287:SER:O	1:FC:291:ILE:HG23	2.21	0.40
1:FC:394:LYS:NZ	2:FD:347:ASN:OD1	2.53	0.40
2:FD:73:MET:HE1	2:FD:92:PHE:HB3	2.03	0.40
1:FE:205:ASP:OD1	1:FE:303:ALA:HA	2.22	0.40
1:FE:287:SER:O	1:FE:291:ILE:HG23	2.21	0.40
2:FF:83:GLN:HA	2:FF:83:GLN:OE1	2.21	0.40
2:GD:83:GLN:OE1	2:GD:83:GLN:HA	2.21	0.40
2:GD:390:ARG:CD	1:GE:439:THR:HG21	2.51	0.40
2:GF:54:ALA:CB	2:HF:281:TYR:O	2.69	0.40
2:GF:68:LEU:HD12	2:GF:68:LEU:HA	1.90	0.40
2:GF:226:ASN:ND2	13:GF:501:GDP:HN1	2.12	0.40
2:GF:380:ARG:HE	2:GF:380:ARG:HB3	1.73	0.40
1:HA:212:ILE:HD11	1:HA:300:ASN:HA	2.03	0.40
1:HA:287:SER:O	1:HA:291:ILE:HG23	2.21	0.40
2:HB:212:PHE:HE2	1:HC:326:LYS:HB2	1.87	0.40
1:HC:115:VAL:HG22	1:HC:119:LEU:HD23	2.04	0.40
1:HC:287:SER:O	1:HC:291:ILE:HG23	2.21	0.40
1:HE:115:VAL:HG22	1:HE:119:LEU:HD23	2.04	0.40
1:IA:222:PRO:CG	2:IB:324:LYS:CD	2.91	0.40
1:IC:115:VAL:HG22	1:IC:119:LEU:HD23	2.04	0.40
1:IE:124:LYS:HE2	1:IE:124:LYS:HB2	1.89	0.40
2:IF:73:MET:HE1	2:IF:92:PHE:HB3	2.03	0.40
2:JB:178:THR:HG22	2:JB:180:VAL:H	1.87	0.40
2:JB:293:MET:HE1	2:JB:330:MET:HE1	2.02	0.40
2:JD:293:MET:HE1	2:JD:330:MET:HE1	2.02	0.40
2:KB:73:MET:HE1	2:KB:92:PHE:HB3	2.03	0.40
1:KC:115:VAL:HG22	1:KC:119:LEU:HD23	2.04	0.40
2:KF:44:LEU:HD23	2:KF:44:LEU:HA	1.93	0.40
2:KF:391:ARG:HD2	2:KF:391:ARG:HA	1.79	0.40
1:LA:115:VAL:HG22	1:LA:119:LEU:HD23	2.04	0.40
2:LB:180:VAL:HB	1:LC:257:THR:O	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LB:282:ARG:NH2	2:LB:292:GLN:OE1	2.54	0.40
2:LB:293:MET:HE1	2:LB:330:MET:HE1	2.02	0.40
2:LD:180:VAL:HB	1:LE:257:THR:O	2.20	0.40
2:LD:293:MET:HE1	2:LD:330:MET:HE1	2.02	0.40
1:LE:115:VAL:HG22	1:LE:119:LEU:HD23	2.04	0.40
1:LE:226:ASN:ND2	1:LE:367:ASP:OD2	2.51	0.40
2:LF:293:MET:HE1	2:LF:330:MET:HE1	2.02	0.40
1:MA:115:VAL:HG22	1:MA:119:LEU:HD23	2.04	0.40
2:MB:68:LEU:HD12	2:MB:68:LEU:HA	1.90	0.40
2:MB:325:GLU:HA	2:MB:328:GLU:HG2	2.02	0.40
1:MC:115:VAL:HG22	1:MC:119:LEU:HD23	2.04	0.40
2:MD:131:GLN:O	2:MD:163:ILE:HG12	2.20	0.40
2:MD:178:THR:HG22	2:MD:180:VAL:H	1.87	0.40
2:MD:282:ARG:NH2	2:MD:292:GLN:OE1	2.54	0.40
1:ME:262:TYR:HB2	1:ME:265:ILE:HD12	2.02	0.40
2:MF:178:THR:HG22	2:MF:180:VAL:H	1.87	0.40
2:MF:282:ARG:NH2	2:MF:292:GLN:OE1	2.54	0.40
4:2B:149:ILE:O	4:2B:151:VAL:N	2.53	0.40
5:3B:158:LEU:HD21	5:3B:243:PHE:CE1	2.56	0.40
6:4B:161:LYS:C	6:4B:161:LYS:CD	2.93	0.40
6:4D:161:LYS:C	6:4D:161:LYS:CD	2.93	0.40
7:5A:1271:ILE:H	7:5A:1271:ILE:HG13	1.43	0.40
7:5A:1384:GLN:N	7:5A:1384:GLN:NE2	2.69	0.40
7:5B:1408:GLU:OE1	7:5B:1408:GLU:CA	2.69	0.40
7:5C:1415:GLU:OE1	7:5C:1415:GLU:CA	2.69	0.40
8:6B:75:ILE:HD13	8:6B:84:LEU:HD21	2.01	0.40
9:7C:39:GLY:CA	9:7D:43:LEU:HG	2.47	0.40
9:7C:39:GLY:H	9:7D:43:LEU:HD21	1.85	0.40
2:AB:55:THR:CG2	2:BB:283:ALA:HB1	2.51	0.40
2:AD:390:ARG:CD	1:AE:439:THR:HG21	2.51	0.40
1:AE:93:ILE:H	1:AE:93:ILE:HD12	1.85	0.40
1:AE:203:MET:HE2	1:AE:203:MET:HA	2.03	0.40
1:BA:68:LEU:HD21	1:BA:118:CYS:SG	2.60	0.40
1:BA:124:LYS:HE2	1:BA:124:LYS:HB2	1.89	0.40
1:BA:205:ASP:OD1	1:BA:303:ALA:HA	2.22	0.40
2:BB:391:ARG:HA	2:BB:391:ARG:HD2	1.79	0.40
1:BC:181:VAL:HG21	2:BD:256:ASN:O	2.20	0.40
1:BE:205:ASP:OD1	1:BE:303:ALA:HA	2.22	0.40
2:BF:131:GLN:O	2:BF:163:ILE:HG12	2.20	0.40
1:CA:322:ASP:OD1	1:CA:373:ARG:NH1	2.52	0.40
2:CB:282:ARG:NH2	2:CB:292:GLN:OE1	2.54	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:68:LEU:HD21	1:CC:118:CYS:SG	2.60	0.40
1:CC:115:VAL:HG22	1:CC:119:LEU:HD23	2.04	0.40
1:CC:203:MET:HA	1:CC:203:MET:HE2	2.03	0.40
1:CE:203:MET:HA	1:CE:203:MET:HE2	2.03	0.40
2:DB:87:PRO:HA	2:DB:90:PHE:HD2	1.87	0.40
1:DC:203:MET:HE2	1:DC:203:MET:HA	2.03	0.40
2:DD:69:GLU:HA	2:DD:70:PRO:HD3	1.89	0.40
2:DD:87:PRO:HA	2:DD:90:PHE:HD2	1.87	0.40
1:DE:115:VAL:HG22	1:DE:119:LEU:HD23	2.03	0.40
2:DF:178:THR:HG22	2:DF:180:VAL:H	1.87	0.40
1:EA:68:LEU:HD21	1:EA:118:CYS:SG	2.60	0.40
2:EB:84:LEU:O	2:FB:281:TYR:OH	2.39	0.40
2:EB:178:THR:HG22	2:EB:180:VAL:H	1.87	0.40
1:EC:217:LEU:HD23	1:EC:217:LEU:HA	1.93	0.40
2:ED:73:MET:HE1	2:ED:92:PHE:HB3	2.03	0.40
2:ED:83:GLN:OE1	2:ED:83:GLN:HA	2.21	0.40
2:ED:178:THR:HG22	2:ED:180:VAL:H	1.87	0.40
1:EE:181:VAL:CG1	2:EF:348:ASN:HA	2.52	0.40
2:EF:83:GLN:OE1	2:EF:83:GLN:HA	2.21	0.40
2:EF:293:MET:HE1	2:EF:330:MET:HE1	2.02	0.40
1:FA:115:VAL:HG22	1:FA:119:LEU:HD23	2.04	0.40
1:FA:205:ASP:OD1	1:FA:303:ALA:HA	2.22	0.40
1:FA:287:SER:O	1:FA:291:ILE:HG23	2.21	0.40
1:FC:85:GLN:O	1:GC:283:HIS:CE1	2.75	0.40
1:FC:115:VAL:HG22	1:FC:119:LEU:HD23	2.04	0.40
1:FC:181:VAL:CG1	2:FD:348:ASN:HA	2.51	0.40
1:FE:423:GLU:OE2	7:5B:1256:ARG:NH1	2.50	0.40
2:GB:212:PHE:HE2	1:GC:326:LYS:HB2	1.87	0.40
1:GC:115:VAL:HG22	1:GC:119:LEU:HD23	2.04	0.40
1:GC:262:TYR:HB2	1:GC:265:ILE:HD12	2.02	0.40
2:GD:87:PRO:HA	2:GD:90:PHE:HD2	1.86	0.40
2:GD:391:ARG:HA	2:GD:391:ARG:HD2	1.79	0.40
1:GE:98:ASP:CG	1:GE:100:ALA:H	2.29	0.40
1:GE:115:VAL:HG22	1:GE:119:LEU:HD23	2.04	0.40
2:GF:268:ILE:HG13	2:GF:300:MET:HG3	2.02	0.40
1:HA:296:PHE:CE2	1:HA:335:ILE:HG21	2.55	0.40
1:HC:247:ALA:HB2	1:HC:357:TYR:OH	2.21	0.40
2:HD:325:GLU:HA	2:HD:328:GLU:HG2	2.02	0.40
2:HD:390:ARG:CD	1:HE:439:THR:HG21	2.51	0.40
2:HF:325:GLU:HA	2:HF:328:GLU:HG2	2.03	0.40
1:IC:429:GLU:CD	5:3C:307:LYS:NZ	2.76	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ID:73:MET:HE1	2:ID:92:PHE:HB3	2.03	0.40
1:IE:115:VAL:HG22	1:IE:119:LEU:HD23	2.04	0.40
1:IE:262:TYR:HB2	1:IE:265:ILE:HD12	2.02	0.40
2:JB:325:GLU:HA	2:JB:328:GLU:HG2	2.02	0.40
1:JC:247:ALA:HB2	1:JC:357:TYR:OH	2.21	0.40
2:JD:178:THR:HG22	2:JD:180:VAL:H	1.87	0.40
2:JD:375:GLN:O	2:JD:379:LYS:HG3	2.20	0.40
1:JE:212:ILE:HD11	1:JE:300:ASN:HA	2.03	0.40
2:JF:69:GLU:HA	2:JF:70:PRO:HD3	1.89	0.40
2:JF:178:THR:HG22	2:JF:180:VAL:H	1.87	0.40
2:JF:375:GLN:O	2:JF:379:LYS:HG3	2.20	0.40
2:KB:212:PHE:HE2	1:KC:326:LYS:HB2	1.87	0.40
2:KB:325:GLU:HA	2:KB:328:GLU:HG2	2.02	0.40
2:KD:83:GLN:HA	2:KD:83:GLN:OE1	2.21	0.40
2:KD:87:PRO:HA	2:KD:90:PHE:HD2	1.86	0.40
1:KE:115:VAL:HG22	1:KE:119:LEU:HD23	2.04	0.40
2:KF:83:GLN:OE1	2:KF:83:GLN:HA	2.21	0.40
2:KF:178:THR:HG22	2:KF:180:VAL:H	1.86	0.40
1:LC:115:VAL:HG22	1:LC:119:LEU:HD23	2.04	0.40
1:LC:181:VAL:HG12	2:LD:348:ASN:HA	2.02	0.40
1:LE:205:ASP:OD1	1:LE:303:ALA:HA	2.22	0.40
2:MB:178:THR:HG22	2:MB:180:VAL:H	1.87	0.40
2:MB:282:ARG:NH2	2:MB:292:GLN:OE1	2.54	0.40
1:MC:100:ALA:HB1	2:MD:252:LYS:N	2.36	0.40
1:ME:115:VAL:HG22	1:ME:119:LEU:HD23	2.04	0.40
2:MF:131:GLN:O	2:MF:163:ILE:HG12	2.20	0.40
5:3A:158:LEU:HD21	5:3A:243:PHE:CE1	2.56	0.40
5:3C:158:LEU:HD21	5:3C:243:PHE:CE1	2.56	0.40
6:4A:112:SER:HA	6:4A:115:LYS:HE2	2.03	0.40
6:4B:139:ASP:HA	6:4B:140:PRO:HD3	1.85	0.40
6:4B:219:ASN:HA	6:4B:219:ASN:HD22	1.53	0.40
6:4D:112:SER:HA	6:4D:115:LYS:HE2	2.03	0.40
7:5A:1284:PHE:CE1	9:7A:12:GLU:CD	2.83	0.40
7:5A:1398:GLU:HG3	7:5A:1400:GLU:CG	2.52	0.40
7:5B:1271:ILE:H	7:5B:1271:ILE:HG13	1.43	0.40
7:5B:1316:LEU:CA	7:5B:1319:HIS:HB2	2.47	0.40
7:5B:1406:PHE:HA	7:5B:1409:PHE:HB3	2.02	0.40
7:5C:1370:LYS:CA	7:5C:1370:LYS:HE2	2.50	0.40
7:5C:1398:GLU:HG3	7:5C:1400:GLU:CG	2.52	0.40
7:5C:1425:LYS:O	7:5C:1425:LYS:CE	2.69	0.40
7:5C:1474:LEU:CD2	7:5C:1576:ILE:CD1	2.93	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:212:PHE:HE2	1:AC:326:LYS:HB2	1.87	0.40
2:AB:325:GLU:HA	2:AB:328:GLU:HG2	2.02	0.40
2:AD:87:PRO:HA	2:AD:90:PHE:HD2	1.86	0.40
2:AD:220:PRO:HD2	1:AE:326:LYS:CG	2.44	0.40
2:AF:325:GLU:HA	2:AF:328:GLU:HG2	2.02	0.40
1:BC:205:ASP:OD1	1:BC:303:ALA:HA	2.22	0.40
1:BE:60:LYS:NZ	1:CE:283:HIS:CD2	2.89	0.40
1:CA:247:ALA:HB2	1:CA:357:TYR:OH	2.21	0.40
2:CB:44:LEU:HD23	2:CB:44:LEU:HA	1.93	0.40
2:CB:293:MET:HE1	2:CB:330:MET:HE1	2.02	0.40
2:CB:325:GLU:HA	2:CB:328:GLU:HG2	2.02	0.40
2:CD:83:GLN:OE1	2:CD:83:GLN:HA	2.21	0.40
2:CD:177:ASP:HA	1:CE:353:VAL:HG12	2.03	0.40
2:CD:293:MET:HE1	2:CD:330:MET:HE1	2.02	0.40
2:CD:325:GLU:HA	2:CD:328:GLU:HG2	2.02	0.40
1:CE:247:ALA:HB2	1:CE:357:TYR:OH	2.21	0.40
2:CF:83:GLN:OE1	2:CF:83:GLN:HA	2.21	0.40
2:CF:293:MET:HE1	2:CF:330:MET:HE1	2.02	0.40
2:DB:375:GLN:O	2:DB:379:LYS:HG3	2.20	0.40
1:DC:287:SER:O	1:DC:291:ILE:HG23	2.21	0.40
2:DD:222:TYR:CE2	1:DE:325:PRO:HG2	2.56	0.40
2:DD:257:LEU:HD11	2:DD:314:SER:HB2	2.03	0.40
2:DD:325:GLU:HA	2:DD:328:GLU:HG2	2.02	0.40
1:DE:98:ASP:CG	1:DE:100:ALA:H	2.29	0.40
1:DE:203:MET:HE2	1:DE:203:MET:HA	2.03	0.40
1:EA:203:MET:HA	1:EA:203:MET:HE2	2.03	0.40
1:EA:426:ALA:CB	7:5C:833:PHE:CB	2.94	0.40
1:EA:430:LYS:H	7:5C:833:PHE:HE1	1.66	0.40
1:EC:430:LYS:HZ2	7:5A:834:ASN:HD22	0.69	0.40
1:EE:115:VAL:HG22	1:EE:119:LEU:HD23	2.04	0.40
1:EE:247:ALA:HB2	1:EE:357:TYR:OH	2.21	0.40
2:EF:178:THR:HG22	2:EF:180:VAL:H	1.87	0.40
1:FA:203:MET:HE2	1:FA:203:MET:HA	2.03	0.40
2:FD:208:TYR:CE2	1:FE:326:LYS:HB3	2.56	0.40
1:FE:115:VAL:HG22	1:FE:119:LEU:HD23	2.04	0.40
1:GA:115:VAL:HG22	1:GA:119:LEU:HD23	2.04	0.40
1:GA:203:MET:HE2	1:GA:203:MET:HA	2.03	0.40
2:GB:83:GLN:OE1	2:GB:83:GLN:HA	2.21	0.40
1:HA:115:VAL:HG22	1:HA:119:LEU:HD23	2.04	0.40
1:HA:247:ALA:HB2	1:HA:357:TYR:OH	2.21	0.40
1:HE:205:ASP:OD1	1:HE:303:ALA:HA	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HE:287:SER:O	1:HE:291:ILE:HG23	2.21	0.40
1:HE:425:LEU:HA	1:HE:425:LEU:HD23	1.86	0.40
1:IA:98:ASP:CG	1:IA:100:ALA:H	2.29	0.40
1:IA:115:VAL:HG22	1:IA:119:LEU:HD23	2.04	0.40
2:IB:73:MET:HE1	2:IB:92:PHE:HB3	2.03	0.40
1:IC:124:LYS:HE2	1:IC:124:LYS:HB2	1.88	0.40
2:ID:325:GLU:HA	2:ID:328:GLU:HG2	2.02	0.40
1:IE:98:ASP:CG	1:IE:100:ALA:H	2.29	0.40
1:JC:115:VAL:HG22	1:JC:119:LEU:HD23	2.04	0.40
2:JD:390:ARG:CD	1:JE:439:THR:HG21	2.51	0.40
2:JF:262:ARG:NH1	2:JF:421:GLU:OE1	2.50	0.40
1:KA:115:VAL:HG22	1:KA:119:LEU:HD23	2.04	0.40
2:KB:69:GLU:HA	2:KB:70:PRO:HD3	1.89	0.40
2:KB:178:THR:HG22	2:KB:180:VAL:H	1.87	0.40
1:KC:71:GLU:OE2	1:KC:73:THR:OG1	2.28	0.40
1:KE:398:MET:SD	2:KF:345:ILE:CG1	2.92	0.40
1:LA:205:ASP:OD1	1:LA:303:ALA:HA	2.22	0.40
2:LB:306:ARG:NH2	4:2C:151:VAL:CB	2.84	0.40
1:LC:205:ASP:OD1	1:LC:303:ALA:HA	2.22	0.40
1:LE:212:ILE:HD11	1:LE:300:ASN:HA	2.03	0.40
1:LE:247:ALA:HB2	1:LE:357:TYR:OH	2.21	0.40
1:MC:124:LYS:HE2	1:MC:124:LYS:HB2	1.89	0.40
2:MD:325:GLU:HA	2:MD:328:GLU:HG2	2.03	0.40
2:MF:325:GLU:HA	2:MF:328:GLU:HG2	2.03	0.40
4:2B:72:TYR:HE2	4:2B:111:GLU:HG3	1.87	0.40
6:4B:112:SER:HA	6:4B:115:LYS:HE2	2.03	0.40
7:5A:1387:ILE:N	7:5A:1387:ILE:HD13	2.37	0.40
7:5A:1415:GLU:OE1	7:5A:1415:GLU:CA	2.69	0.40
7:5B:1061:ILE:O	7:5B:1065:LYS:HG3	2.20	0.40
7:5B:1398:GLU:HG3	7:5B:1400:GLU:CG	2.52	0.40
7:5C:1250:VAL:HG11	7:5C:1262:GLU:CG	2.51	0.40
7:5C:1384:GLN:N	7:5C:1384:GLN:NE2	2.69	0.40
7:5C:1387:ILE:N	7:5C:1387:ILE:HD13	2.37	0.40
7:5C:1392:LEU:O	7:5C:1392:LEU:HD22	2.21	0.40
1:AA:115:VAL:HG22	1:AA:119:LEU:HD23	2.04	0.40
1:AC:248:LEU:HD12	1:AC:248:LEU:HA	1.89	0.40
2:AD:325:GLU:HA	2:AD:328:GLU:HG2	2.02	0.40
1:AE:164:LYS:HA	1:AE:164:LYS:HD3	1.85	0.40
1:AE:205:ASP:OD1	1:AE:303:ALA:HA	2.21	0.40
2:AF:391:ARG:HA	2:AF:391:ARG:HD2	1.79	0.40
2:BB:68:LEU:HD12	2:BB:68:LEU:HA	1.90	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:73:MET:HE1	2:BB:92:PHE:HB3	2.03	0.40
2:BB:176:SER:CB	1:BC:349:THR:OG1	2.70	0.40
2:BB:325:GLU:HA	2:BB:328:GLU:HG2	2.02	0.40
1:BC:71:GLU:OE2	1:BC:73:THR:OG1	2.28	0.40
2:BD:325:GLU:HA	2:BD:328:GLU:HG2	2.02	0.40
1:BE:262:TYR:HB2	1:BE:265:ILE:HD12	2.02	0.40
1:CA:222:PRO:HG2	2:CB:324:LYS:HB2	2.03	0.40
1:CC:322:ASP:OD1	1:CC:373:ARG:NH1	2.52	0.40
2:CD:73:MET:HE1	2:CD:92:PHE:HB3	2.03	0.40
2:CF:73:MET:HE1	2:CF:92:PHE:HB3	2.03	0.40
1:DA:115:VAL:HG22	1:DA:119:LEU:HD23	2.03	0.40
1:DA:203:MET:HE2	1:DA:203:MET:HA	2.03	0.40
1:DA:287:SER:O	1:DA:291:ILE:HG23	2.21	0.40
2:DB:73:MET:HE1	2:DB:92:PHE:HB3	2.03	0.40
2:DB:85:PHE:C	2:EB:281:TYR:CE1	2.97	0.40
1:DC:128:ASN:HD21	1:EC:285:GLN:NE2	2.18	0.40
2:DD:73:MET:HE1	2:DD:92:PHE:HB3	2.03	0.40
2:DD:178:THR:HG22	2:DD:180:VAL:H	1.87	0.40
2:DD:219:THR:HA	1:DE:326:LYS:HE2	2.03	0.40
2:DD:262:ARG:NH1	2:DD:421:GLU:OE1	2.50	0.40
2:DF:73:MET:HE1	2:DF:92:PHE:HB3	2.03	0.40
2:DF:257:LEU:HD11	2:DF:314:SER:HB2	2.03	0.40
2:DF:325:GLU:HA	2:DF:328:GLU:HG2	2.03	0.40
1:FA:222:PRO:HG2	2:FB:324:LYS:HB2	2.04	0.40
2:FD:106:TYR:O	7:5A:1298:LYS:HE2	2.16	0.40
1:FE:164:LYS:HD3	1:FE:164:LYS:HA	1.86	0.40
2:GB:178:THR:HG22	2:GB:180:VAL:H	1.87	0.40
2:GB:220:PRO:HD2	1:GC:326:LYS:CG	2.46	0.40
1:GC:98:ASP:CG	1:GC:100:ALA:H	2.29	0.40
1:GC:203:MET:HE2	1:GC:203:MET:HA	2.03	0.40
1:GC:247:ALA:HB2	1:GC:357:TYR:OH	2.21	0.40
1:GE:60:LYS:CD	1:HE:283:HIS:CD2	2.95	0.40
1:HA:205:ASP:OD1	1:HA:303:ALA:HA	2.22	0.40
1:HC:205:ASP:OD1	1:HC:303:ALA:HA	2.22	0.40
1:HE:247:ALA:HB2	1:HE:357:TYR:OH	2.21	0.40
2:HF:391:ARG:HD2	2:HF:391:ARG:HA	1.79	0.40
1:IA:212:ILE:HD11	1:IA:300:ASN:HA	2.03	0.40
2:IB:212:PHE:HE2	1:IC:326:LYS:HB2	1.87	0.40
1:IC:98:ASP:CG	1:IC:100:ALA:H	2.29	0.40
1:IC:212:ILE:HD11	1:IC:300:ASN:HA	2.02	0.40
2:IF:325:GLU:HA	2:IF:328:GLU:HG2	2.02	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JA:247:ALA:HB2	1:JA:357:TYR:OH	2.21	0.40
2:JD:262:ARG:NH1	2:JD:421:GLU:OE1	2.50	0.40
1:JE:115:VAL:HG22	1:JE:119:LEU:HD23	2.04	0.40
1:KA:372:MET:O	6:4C:299:TYR:CE2	2.72	0.40
2:KB:87:PRO:HA	2:KB:90:PHE:HD2	1.87	0.40
2:KB:176:SER:CB	1:KC:349:THR:HG1	2.34	0.40
1:KC:212:ILE:HD11	1:KC:300:ASN:HA	2.02	0.40
2:KD:178:THR:HG22	2:KD:180:VAL:H	1.87	0.40
2:KD:220:PRO:HD2	1:KE:326:LYS:CE	2.44	0.40
2:KD:325:GLU:HA	2:KD:328:GLU:HG2	2.02	0.40
2:KF:325:GLU:HA	2:KF:328:GLU:HG2	2.02	0.40
2:LB:325:GLU:HA	2:LB:328:GLU:HG2	2.02	0.40
2:LD:131:GLN:O	2:LD:163:ILE:HG12	2.20	0.40
1:MA:357:TYR:CE1	6:4C:185:ARG:NH1	2.88	0.40
1:ME:372:MET:CE	6:4B:96:VAL:HB	2.52	0.40
2:MF:73:MET:HE1	2:MF:92:PHE:HB3	2.03	0.40
4:2A:16:GLN:CA	4:2A:19:MET:CB	2.30	0.40
4:2A:72:TYR:HE2	4:2A:111:GLU:HG3	1.87	0.40
4:2C:72:TYR:HE2	4:2C:111:GLU:HG3	1.87	0.40
6:4B:175:LEU:HD13	6:4B:175:LEU:HA	1.74	0.40
7:5A:1392:LEU:O	7:5A:1392:LEU:HD22	2.21	0.40
7:5A:1425:LYS:O	7:5A:1425:LYS:CE	2.70	0.40
7:5B:771:LEU:HB3	7:5B:772:LEU:H	1.64	0.40
7:5B:1387:ILE:N	7:5B:1387:ILE:HD13	2.37	0.40
7:5B:1392:LEU:O	7:5B:1392:LEU:HD22	2.21	0.40
7:5B:1425:LYS:O	7:5B:1425:LYS:CE	2.69	0.40
7:5C:1397:GLU:OE1	7:5C:1397:GLU:CA	2.70	0.40
8:6A:20:LYS:CE	8:6A:101:GLU:OE1	2.70	0.40
8:6B:20:LYS:CE	8:6B:101:GLU:OE1	2.70	0.40
8:6C:129:VAL:HG21	8:6C:141:GLU:HB2	2.03	0.40
9:7F:12:GLU:CA	9:7F:16:THR:HG1	2.10	0.40
9:7F:45:ARG:HD2	9:7F:45:ARG:HA	1.85	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	AA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	AC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	AE	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	BA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	BC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	BE	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	CA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	CC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	CE	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	DA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	DC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	DE	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	EA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	EC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	EE	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	FA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	FC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	FE	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	GA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	GC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	GE	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	HA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	HC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	HE	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	IA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	IC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	IE	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	JA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	JC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	JE	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	KA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	KC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	KE	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	LA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	LC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	LE	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	MA	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	MC	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
1	ME	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
2	AB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	AD	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	AF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	BB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	BD	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	BF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	CB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	CD	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	CF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	DB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	DD	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	DF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	EB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	ED	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	EF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	FB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	FD	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	FF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	GB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	GD	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	GF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	HB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	HD	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	HF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	IB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	ID	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	IF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	JB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	JD	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	JF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	KB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	KD	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	KF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	LB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	LD	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	LF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	MB	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	MD	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
2	MF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
3	1A	138/213 (65%)	136 (99%)	2 (1%)	0	100	100
3	1B	138/213 (65%)	136 (99%)	2 (1%)	0	100	100
3	1C	138/213 (65%)	136 (99%)	2 (1%)	0	100	100
4	2A	186/742 (25%)	172 (92%)	9 (5%)	5 (3%)	4	27
4	2B	186/742 (25%)	172 (92%)	9 (5%)	5 (3%)	4	27
4	2C	186/742 (25%)	172 (92%)	9 (5%)	5 (3%)	4	27
5	3A	327/495 (66%)	316 (97%)	10 (3%)	1 (0%)	36	65
5	3B	327/495 (66%)	316 (97%)	10 (3%)	1 (0%)	36	65
5	3C	327/495 (66%)	316 (97%)	10 (3%)	1 (0%)	36	65
6	4A	183/317 (58%)	176 (96%)	4 (2%)	3 (2%)	7	35
6	4B	183/317 (58%)	176 (96%)	4 (2%)	3 (2%)	7	35
6	4C	183/317 (58%)	176 (96%)	4 (2%)	3 (2%)	7	35
6	4D	183/317 (58%)	176 (96%)	4 (2%)	3 (2%)	7	35

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	5A	695/1754 (40%)	650 (94%)	33 (5%)	12 (2%)	7	34
7	5B	695/1754 (40%)	650 (94%)	33 (5%)	12 (2%)	7	34
7	5C	695/1754 (40%)	650 (94%)	33 (5%)	12 (2%)	7	34
8	6A	254/346 (73%)	247 (97%)	7 (3%)	0	100	100
8	6B	254/346 (73%)	247 (97%)	7 (3%)	0	100	100
8	6C	254/346 (73%)	247 (97%)	7 (3%)	0	100	100
9	7A	44/101 (44%)	44 (100%)	0	0	100	100
9	7B	44/101 (44%)	44 (100%)	0	0	100	100
9	7C	44/101 (44%)	44 (100%)	0	0	100	100
9	7D	44/101 (44%)	44 (100%)	0	0	100	100
9	7E	44/101 (44%)	44 (100%)	0	0	100	100
9	7F	44/101 (44%)	44 (100%)	0	0	100	100
All	All	39102/47312 (83%)	38252 (98%)	784 (2%)	66 (0%)	44	72

All (66) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	2A	146	PRO
4	2A	147	PHE
4	2A	150	GLN
4	2B	146	PRO
4	2B	147	PHE
4	2B	150	GLN
4	2C	146	PRO
4	2C	147	PHE
4	2C	150	GLN
6	4A	98	PRO
6	4A	105	GLU
6	4A	108	LYS
6	4B	98	PRO
6	4B	105	GLU
6	4B	108	LYS
6	4C	98	PRO
6	4C	105	GLU
6	4C	108	LYS
6	4D	98	PRO
6	4D	105	GLU
6	4D	108	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5A	774	ASN
7	5A	811	GLN
7	5A	812	LYS
7	5A	846	PHE
7	5A	1371	GLU
7	5A	1580	LYS
7	5B	774	ASN
7	5B	811	GLN
7	5B	812	LYS
7	5B	846	PHE
7	5B	1371	GLU
7	5B	1580	LYS
7	5C	774	ASN
7	5C	811	GLN
7	5C	812	LYS
7	5C	846	PHE
7	5C	1371	GLU
7	5C	1580	LYS
7	5A	1245	GLY
7	5A	1280	SER
7	5A	1471	ILE
7	5A	1578	GLY
7	5B	1245	GLY
7	5B	1280	SER
7	5B	1471	ILE
7	5B	1578	GLY
7	5C	1245	GLY
7	5C	1280	SER
7	5C	1471	ILE
7	5C	1578	GLY
5	3A	23	SER
5	3B	23	SER
5	3C	23	SER
7	5A	1244	LEU
7	5B	1244	LEU
7	5C	1244	LEU
4	2A	148	ASN
4	2B	148	ASN
4	2C	148	ASN
7	5A	909	ASN
7	5B	909	ASN
7	5C	909	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	2B	149	ILE
4	2A	149	ILE
4	2C	149	ILE

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	AA	364/376 (97%)	364 (100%)	0	100	100
1	AC	364/376 (97%)	364 (100%)	0	100	100
1	AE	364/376 (97%)	364 (100%)	0	100	100
1	BA	364/376 (97%)	364 (100%)	0	100	100
1	BC	364/376 (97%)	364 (100%)	0	100	100
1	BE	364/376 (97%)	364 (100%)	0	100	100
1	CA	364/376 (97%)	364 (100%)	0	100	100
1	CC	364/376 (97%)	364 (100%)	0	100	100
1	CE	364/376 (97%)	364 (100%)	0	100	100
1	DA	364/376 (97%)	364 (100%)	0	100	100
1	DC	364/376 (97%)	364 (100%)	0	100	100
1	DE	364/376 (97%)	364 (100%)	0	100	100
1	EA	364/376 (97%)	364 (100%)	0	100	100
1	EC	364/376 (97%)	364 (100%)	0	100	100
1	EE	364/376 (97%)	364 (100%)	0	100	100
1	FA	364/376 (97%)	364 (100%)	0	100	100
1	FC	364/376 (97%)	364 (100%)	0	100	100
1	FE	364/376 (97%)	364 (100%)	0	100	100
1	GA	364/376 (97%)	364 (100%)	0	100	100
1	GC	364/376 (97%)	364 (100%)	0	100	100
1	GE	364/376 (97%)	364 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	HA	364/376 (97%)	364 (100%)	0	100	100
1	HC	364/376 (97%)	364 (100%)	0	100	100
1	HE	364/376 (97%)	364 (100%)	0	100	100
1	IA	364/376 (97%)	364 (100%)	0	100	100
1	IC	364/376 (97%)	364 (100%)	0	100	100
1	IE	364/376 (97%)	364 (100%)	0	100	100
1	JA	364/376 (97%)	364 (100%)	0	100	100
1	JC	364/376 (97%)	364 (100%)	0	100	100
1	JE	364/376 (97%)	364 (100%)	0	100	100
1	KA	364/376 (97%)	364 (100%)	0	100	100
1	KC	364/376 (97%)	364 (100%)	0	100	100
1	KE	364/376 (97%)	364 (100%)	0	100	100
1	LA	364/376 (97%)	364 (100%)	0	100	100
1	LC	364/376 (97%)	364 (100%)	0	100	100
1	LE	364/376 (97%)	364 (100%)	0	100	100
1	MA	364/376 (97%)	364 (100%)	0	100	100
1	MC	364/376 (97%)	364 (100%)	0	100	100
1	ME	364/376 (97%)	364 (100%)	0	100	100
2	AB	365/376 (97%)	365 (100%)	0	100	100
2	AD	365/376 (97%)	365 (100%)	0	100	100
2	AF	365/376 (97%)	365 (100%)	0	100	100
2	BB	365/376 (97%)	365 (100%)	0	100	100
2	BD	365/376 (97%)	365 (100%)	0	100	100
2	BF	365/376 (97%)	365 (100%)	0	100	100
2	CB	365/376 (97%)	365 (100%)	0	100	100
2	CD	365/376 (97%)	365 (100%)	0	100	100
2	CF	365/376 (97%)	365 (100%)	0	100	100
2	DB	365/376 (97%)	365 (100%)	0	100	100
2	DD	365/376 (97%)	365 (100%)	0	100	100
2	DF	365/376 (97%)	365 (100%)	0	100	100
2	EB	365/376 (97%)	365 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	ED	365/376 (97%)	365 (100%)	0	100	100
2	EF	365/376 (97%)	365 (100%)	0	100	100
2	FB	365/376 (97%)	365 (100%)	0	100	100
2	FD	365/376 (97%)	365 (100%)	0	100	100
2	FF	365/376 (97%)	365 (100%)	0	100	100
2	GB	365/376 (97%)	365 (100%)	0	100	100
2	GD	365/376 (97%)	365 (100%)	0	100	100
2	GF	365/376 (97%)	365 (100%)	0	100	100
2	HB	365/376 (97%)	365 (100%)	0	100	100
2	HD	365/376 (97%)	365 (100%)	0	100	100
2	HF	365/376 (97%)	365 (100%)	0	100	100
2	IB	365/376 (97%)	365 (100%)	0	100	100
2	ID	365/376 (97%)	365 (100%)	0	100	100
2	IF	365/376 (97%)	365 (100%)	0	100	100
2	JB	365/376 (97%)	365 (100%)	0	100	100
2	JD	365/376 (97%)	365 (100%)	0	100	100
2	JF	365/376 (97%)	365 (100%)	0	100	100
2	KB	365/376 (97%)	365 (100%)	0	100	100
2	KD	365/376 (97%)	365 (100%)	0	100	100
2	KF	365/376 (97%)	365 (100%)	0	100	100
2	LB	365/376 (97%)	365 (100%)	0	100	100
2	LD	365/376 (97%)	365 (100%)	0	100	100
2	LF	365/376 (97%)	365 (100%)	0	100	100
2	MB	365/376 (97%)	365 (100%)	0	100	100
2	MD	365/376 (97%)	365 (100%)	0	100	100
2	MF	365/376 (97%)	365 (100%)	0	100	100
3	1A	129/196 (66%)	128 (99%)	1 (1%)	73	76
3	1B	129/196 (66%)	128 (99%)	1 (1%)	73	76
3	1C	129/196 (66%)	128 (99%)	1 (1%)	73	76
4	2A	180/692 (26%)	162 (90%)	18 (10%)	7	30
4	2B	180/692 (26%)	162 (90%)	18 (10%)	7	30

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	2C	180/692 (26%)	162 (90%)	18 (10%)	7	30
5	3A	309/457 (68%)	305 (99%)	4 (1%)	61	71
5	3B	309/457 (68%)	305 (99%)	4 (1%)	61	71
5	3C	309/457 (68%)	305 (99%)	4 (1%)	61	71
6	4A	176/286 (62%)	92 (52%)	84 (48%)	0	0
6	4B	176/286 (62%)	92 (52%)	84 (48%)	0	0
6	4C	176/286 (62%)	92 (52%)	84 (48%)	0	0
6	4D	176/286 (62%)	92 (52%)	84 (48%)	0	0
7	5A	663/1625 (41%)	501 (76%)	162 (24%)	1	5
7	5B	663/1625 (41%)	501 (76%)	162 (24%)	1	5
7	5C	663/1625 (41%)	500 (75%)	163 (25%)	1	5
8	6A	229/316 (72%)	225 (98%)	4 (2%)	53	67
8	6B	229/316 (72%)	225 (98%)	4 (2%)	53	67
8	6C	229/316 (72%)	225 (98%)	4 (2%)	53	67
9	7A	42/86 (49%)	42 (100%)	0	100	100
9	7B	42/86 (49%)	42 (100%)	0	100	100
9	7C	42/86 (49%)	42 (100%)	0	100	100
9	7D	42/86 (49%)	42 (100%)	0	100	100
9	7E	42/86 (49%)	42 (100%)	0	100	100
9	7F	42/86 (49%)	42 (100%)	0	100	100
All	All	33917/40846 (83%)	33013 (97%)	904 (3%)	40	59

All (904) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1A	1	MET
3	1B	1	MET
3	1C	1	MET
4	2A	10	LYS
4	2A	13	THR
4	2A	14	LYS
4	2A	15	GLU
4	2A	38	VAL
4	2A	87	LEU
4	2A	144	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	2A	147	PHE
4	2A	148	ASN
4	2A	149	ILE
4	2A	151	VAL
4	2A	152	LYS
4	2A	160	PHE
4	2A	162	GLN
4	2A	164	ARG
4	2A	178	LYS
4	2A	192	LEU
4	2A	197	LEU
4	2B	10	LYS
4	2B	13	THR
4	2B	14	LYS
4	2B	15	GLU
4	2B	38	VAL
4	2B	87	LEU
4	2B	144	ASN
4	2B	147	PHE
4	2B	148	ASN
4	2B	149	ILE
4	2B	151	VAL
4	2B	152	LYS
4	2B	160	PHE
4	2B	162	GLN
4	2B	164	ARG
4	2B	178	LYS
4	2B	192	LEU
4	2B	197	LEU
4	2C	10	LYS
4	2C	13	THR
4	2C	14	LYS
4	2C	15	GLU
4	2C	38	VAL
4	2C	87	LEU
4	2C	144	ASN
4	2C	147	PHE
4	2C	148	ASN
4	2C	149	ILE
4	2C	151	VAL
4	2C	152	LYS
4	2C	160	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	2C	162	GLN
4	2C	164	ARG
4	2C	178	LYS
4	2C	192	LEU
4	2C	197	LEU
5	3A	100	LEU
5	3A	138	LEU
5	3A	309	TRP
5	3A	321	LEU
5	3B	100	LEU
5	3B	138	LEU
5	3B	309	TRP
5	3B	321	LEU
5	3C	100	LEU
5	3C	138	LEU
5	3C	309	TRP
5	3C	321	LEU
6	4A	96	VAL
6	4A	97	GLN
6	4A	99	ARG
6	4A	102	LEU
6	4A	105	GLU
6	4A	107	MET
6	4A	108	LYS
6	4A	110	LYS
6	4A	113	ILE
6	4A	114	GLU
6	4A	115	LYS
6	4A	116	THR
6	4A	121	ARG
6	4A	132	LYS
6	4A	135	LEU
6	4A	137	ASN
6	4A	141	LYS
6	4A	142	SER
6	4A	143	THR
6	4A	144	LEU
6	4A	149	ASN
6	4A	151	ARG
6	4A	154	LYS
6	4A	155	ASP
6	4A	157	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	4A	161	LYS
6	4A	162	GLN
6	4A	163	GLN
6	4A	164	ARG
6	4A	167	ARG
6	4A	173	VAL
6	4A	178	HIS
6	4A	179	ARG
6	4A	180	ILE
6	4A	184	GLU
6	4A	185	ARG
6	4A	190	TRP
6	4A	191	GLU
6	4A	192	GLN
6	4A	193	MET
6	4A	201	GLN
6	4A	205	GLN
6	4A	215	LYS
6	4A	217	ASN
6	4A	218	THR
6	4A	219	ASN
6	4A	221	MET
6	4A	223	PHE
6	4A	226	ILE
6	4A	228	LEU
6	4A	230	TYR
6	4A	231	GLU
6	4A	232	LYS
6	4A	233	SER
6	4A	239	LEU
6	4A	241	LYS
6	4A	242	ARG
6	4A	244	GLU
6	4A	245	MET
6	4A	247	LYS
6	4A	252	VAL
6	4A	253	ARG
6	4A	257	LEU
6	4A	258	ASP
6	4A	262	ASN
6	4A	267	ILE
6	4A	268	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	4A	269	THR
6	4A	273	ARG
6	4A	274	ILE
6	4A	277	GLU
6	4A	278	TYR
6	4A	280	VAL
6	4A	282	ASN
6	4A	283	HIS
6	4A	285	ARG
6	4A	287	ASP
6	4A	289	LYS
6	4A	290	THR
6	4A	292	VAL
6	4A	295	LYS
6	4A	297	GLU
6	4A	299	TYR
6	4A	300	SER
6	4B	96	VAL
6	4B	97	GLN
6	4B	99	ARG
6	4B	102	LEU
6	4B	105	GLU
6	4B	107	MET
6	4B	108	LYS
6	4B	110	LYS
6	4B	113	ILE
6	4B	114	GLU
6	4B	115	LYS
6	4B	116	THR
6	4B	121	ARG
6	4B	132	LYS
6	4B	135	LEU
6	4B	137	ASN
6	4B	141	LYS
6	4B	142	SER
6	4B	143	THR
6	4B	144	LEU
6	4B	149	ASN
6	4B	151	ARG
6	4B	154	LYS
6	4B	155	ASP
6	4B	157	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	4B	161	LYS
6	4B	162	GLN
6	4B	163	GLN
6	4B	164	ARG
6	4B	167	ARG
6	4B	173	VAL
6	4B	178	HIS
6	4B	179	ARG
6	4B	180	ILE
6	4B	184	GLU
6	4B	185	ARG
6	4B	190	TRP
6	4B	191	GLU
6	4B	192	GLN
6	4B	193	MET
6	4B	201	GLN
6	4B	205	GLN
6	4B	215	LYS
6	4B	217	ASN
6	4B	218	THR
6	4B	219	ASN
6	4B	221	MET
6	4B	223	PHE
6	4B	226	ILE
6	4B	228	LEU
6	4B	230	TYR
6	4B	231	GLU
6	4B	232	LYS
6	4B	233	SER
6	4B	239	LEU
6	4B	241	LYS
6	4B	242	ARG
6	4B	244	GLU
6	4B	245	MET
6	4B	247	LYS
6	4B	252	VAL
6	4B	253	ARG
6	4B	257	LEU
6	4B	258	ASP
6	4B	262	ASN
6	4B	267	ILE
6	4B	268	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	4B	269	THR
6	4B	273	ARG
6	4B	274	ILE
6	4B	277	GLU
6	4B	278	TYR
6	4B	280	VAL
6	4B	282	ASN
6	4B	283	HIS
6	4B	285	ARG
6	4B	287	ASP
6	4B	289	LYS
6	4B	290	THR
6	4B	292	VAL
6	4B	295	LYS
6	4B	297	GLU
6	4B	299	TYR
6	4B	300	SER
6	4C	96	VAL
6	4C	97	GLN
6	4C	99	ARG
6	4C	102	LEU
6	4C	105	GLU
6	4C	107	MET
6	4C	108	LYS
6	4C	110	LYS
6	4C	113	ILE
6	4C	114	GLU
6	4C	115	LYS
6	4C	116	THR
6	4C	121	ARG
6	4C	132	LYS
6	4C	135	LEU
6	4C	137	ASN
6	4C	141	LYS
6	4C	142	SER
6	4C	143	THR
6	4C	144	LEU
6	4C	149	ASN
6	4C	151	ARG
6	4C	154	LYS
6	4C	155	ASP
6	4C	157	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	4C	161	LYS
6	4C	162	GLN
6	4C	163	GLN
6	4C	164	ARG
6	4C	167	ARG
6	4C	173	VAL
6	4C	178	HIS
6	4C	179	ARG
6	4C	180	ILE
6	4C	184	GLU
6	4C	185	ARG
6	4C	190	TRP
6	4C	191	GLU
6	4C	192	GLN
6	4C	193	MET
6	4C	201	GLN
6	4C	205	GLN
6	4C	215	LYS
6	4C	217	ASN
6	4C	218	THR
6	4C	219	ASN
6	4C	221	MET
6	4C	223	PHE
6	4C	226	ILE
6	4C	228	LEU
6	4C	230	TYR
6	4C	231	GLU
6	4C	232	LYS
6	4C	233	SER
6	4C	239	LEU
6	4C	241	LYS
6	4C	242	ARG
6	4C	244	GLU
6	4C	245	MET
6	4C	247	LYS
6	4C	252	VAL
6	4C	253	ARG
6	4C	257	LEU
6	4C	258	ASP
6	4C	262	ASN
6	4C	267	ILE
6	4C	268	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	4C	269	THR
6	4C	273	ARG
6	4C	274	ILE
6	4C	277	GLU
6	4C	278	TYR
6	4C	280	VAL
6	4C	282	ASN
6	4C	283	HIS
6	4C	285	ARG
6	4C	287	ASP
6	4C	289	LYS
6	4C	290	THR
6	4C	292	VAL
6	4C	295	LYS
6	4C	297	GLU
6	4C	299	TYR
6	4C	300	SER
6	4D	96	VAL
6	4D	97	GLN
6	4D	99	ARG
6	4D	102	LEU
6	4D	105	GLU
6	4D	107	MET
6	4D	108	LYS
6	4D	110	LYS
6	4D	113	ILE
6	4D	114	GLU
6	4D	115	LYS
6	4D	116	THR
6	4D	121	ARG
6	4D	132	LYS
6	4D	135	LEU
6	4D	137	ASN
6	4D	141	LYS
6	4D	142	SER
6	4D	143	THR
6	4D	144	LEU
6	4D	149	ASN
6	4D	151	ARG
6	4D	154	LYS
6	4D	155	ASP
6	4D	157	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	4D	161	LYS
6	4D	162	GLN
6	4D	163	GLN
6	4D	164	ARG
6	4D	167	ARG
6	4D	173	VAL
6	4D	178	HIS
6	4D	179	ARG
6	4D	180	ILE
6	4D	184	GLU
6	4D	185	ARG
6	4D	190	TRP
6	4D	191	GLU
6	4D	192	GLN
6	4D	193	MET
6	4D	201	GLN
6	4D	205	GLN
6	4D	215	LYS
6	4D	217	ASN
6	4D	218	THR
6	4D	219	ASN
6	4D	221	MET
6	4D	223	PHE
6	4D	226	ILE
6	4D	228	LEU
6	4D	230	TYR
6	4D	231	GLU
6	4D	232	LYS
6	4D	233	SER
6	4D	239	LEU
6	4D	241	LYS
6	4D	242	ARG
6	4D	244	GLU
6	4D	245	MET
6	4D	247	LYS
6	4D	252	VAL
6	4D	253	ARG
6	4D	257	LEU
6	4D	258	ASP
6	4D	262	ASN
6	4D	267	ILE
6	4D	268	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	4D	269	THR
6	4D	273	ARG
6	4D	274	ILE
6	4D	277	GLU
6	4D	278	TYR
6	4D	280	VAL
6	4D	282	ASN
6	4D	283	HIS
6	4D	285	ARG
6	4D	287	ASP
6	4D	289	LYS
6	4D	290	THR
6	4D	292	VAL
6	4D	295	LYS
6	4D	297	GLU
6	4D	299	TYR
6	4D	300	SER
7	5A	771	LEU
7	5A	772	LEU
7	5A	773	ARG
7	5A	796	GLU
7	5A	800	LYS
7	5A	801	LEU
7	5A	803	VAL
7	5A	804	VAL
7	5A	806	GLN
7	5A	808	GLN
7	5A	810	THR
7	5A	811	GLN
7	5A	817	LEU
7	5A	832	ASN
7	5A	835	GLN
7	5A	836	ARG
7	5A	839	GLU
7	5A	841	VAL
7	5A	842	LEU
7	5A	843	LEU
7	5A	915	PHE
7	5A	1068	SER
7	5A	1083	THR
7	5A	1094	GLU
7	5A	1095	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5A	1105	TYR
7	5A	1124	ILE
7	5A	1125	LEU
7	5A	1138	LEU
7	5A	1141	LEU
7	5A	1148	PHE
7	5A	1157	THR
7	5A	1160	VAL
7	5A	1166	LEU
7	5A	1243	ASP
7	5A	1247	LYS
7	5A	1255	TYR
7	5A	1260	THR
7	5A	1269	ASP
7	5A	1271	ILE
7	5A	1272	ILE
7	5A	1274	SER
7	5A	1279	ASP
7	5A	1285	ARG
7	5A	1294	ILE
7	5A	1295	LYS
7	5A	1296	GLU
7	5A	1297	LYS
7	5A	1298	LYS
7	5A	1299	LYS
7	5A	1301	GLU
7	5A	1309	LYS
7	5A	1314	LYS
7	5A	1315	ARG
7	5A	1316	LEU
7	5A	1317	LYS
7	5A	1319	HIS
7	5A	1321	PHE
7	5A	1323	MET
7	5A	1325	ARG
7	5A	1328	GLU
7	5A	1331	GLU
7	5A	1332	GLN
7	5A	1335	ASP
7	5A	1338	LYS
7	5A	1339	GLN
7	5A	1340	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5A	1341	LYS
7	5A	1342	GLU
7	5A	1343	LYS
7	5A	1344	GLU
7	5A	1345	LEU
7	5A	1346	GLN
7	5A	1347	LEU
7	5A	1348	LYS
7	5A	1349	LYS
7	5A	1352	GLU
7	5A	1353	GLU
7	5A	1355	GLN
7	5A	1356	LYS
7	5A	1358	LYS
7	5A	1362	MET
7	5A	1366	TRP
7	5A	1367	LYS
7	5A	1370	LYS
7	5A	1371	GLU
7	5A	1373	PHE
7	5A	1374	ASP
7	5A	1376	GLN
7	5A	1377	LYS
7	5A	1378	GLN
7	5A	1380	LEU
7	5A	1381	ILE
7	5A	1382	GLU
7	5A	1384	GLN
7	5A	1385	LYS
7	5A	1386	LYS
7	5A	1387	ILE
7	5A	1389	GLU
7	5A	1390	GLU
7	5A	1391	GLN
7	5A	1393	ARG
7	5A	1394	ARG
7	5A	1396	GLN
7	5A	1397	GLU
7	5A	1398	GLU
7	5A	1399	LYS
7	5A	1400	GLU
7	5A	1401	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5A	1402	LYS
7	5A	1403	GLU
7	5A	1404	LYS
7	5A	1407	GLN
7	5A	1411	LYS
7	5A	1412	LYS
7	5A	1414	ILE
7	5A	1416	LYS
7	5A	1417	GLN
7	5A	1420	GLU
7	5A	1421	PHE
7	5A	1422	LYS
7	5A	1423	LYS
7	5A	1425	LYS
7	5A	1426	GLU
7	5A	1427	LYS
7	5A	1430	GLN
7	5A	1431	GLU
7	5A	1433	GLU
7	5A	1434	LYS
7	5A	1435	GLN
7	5A	1436	ARG
7	5A	1443	LYS
7	5A	1444	LYS
7	5A	1445	LEU
7	5A	1447	GLU
7	5A	1449	LEU
7	5A	1450	HIS
7	5A	1452	HIS
7	5A	1453	ILE
7	5A	1455	LYS
7	5A	1456	THR
7	5A	1459	GLU
7	5A	1461	ILE
7	5A	1462	GLU
7	5A	1463	ILE
7	5A	1464	GLU
7	5A	1466	VAL
7	5A	1469	VAL
7	5A	1471	ILE
7	5A	1474	LEU
7	5A	1485	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5A	1486	THR
7	5A	1487	ASN
7	5A	1488	GLU
7	5A	1489	PHE
7	5A	1490	LYS
7	5A	1491	LEU
7	5A	1492	SER
7	5A	1562	LEU
7	5A	1564	GLU
7	5A	1565	GLU
7	5A	1577	LYS
7	5B	771	LEU
7	5B	772	LEU
7	5B	773	ARG
7	5B	796	GLU
7	5B	800	LYS
7	5B	801	LEU
7	5B	803	VAL
7	5B	804	VAL
7	5B	806	GLN
7	5B	808	GLN
7	5B	810	THR
7	5B	811	GLN
7	5B	817	LEU
7	5B	832	ASN
7	5B	835	GLN
7	5B	836	ARG
7	5B	839	GLU
7	5B	841	VAL
7	5B	842	LEU
7	5B	843	LEU
7	5B	915	PHE
7	5B	1068	SER
7	5B	1083	THR
7	5B	1094	GLU
7	5B	1095	GLU
7	5B	1105	TYR
7	5B	1124	ILE
7	5B	1125	LEU
7	5B	1138	LEU
7	5B	1141	LEU
7	5B	1148	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5B	1157	THR
7	5B	1160	VAL
7	5B	1166	LEU
7	5B	1243	ASP
7	5B	1247	LYS
7	5B	1255	TYR
7	5B	1260	THR
7	5B	1269	ASP
7	5B	1271	ILE
7	5B	1272	ILE
7	5B	1274	SER
7	5B	1279	ASP
7	5B	1285	ARG
7	5B	1294	ILE
7	5B	1295	LYS
7	5B	1296	GLU
7	5B	1297	LYS
7	5B	1298	LYS
7	5B	1299	LYS
7	5B	1301	GLU
7	5B	1309	LYS
7	5B	1314	LYS
7	5B	1315	ARG
7	5B	1316	LEU
7	5B	1317	LYS
7	5B	1319	HIS
7	5B	1321	PHE
7	5B	1323	MET
7	5B	1325	ARG
7	5B	1328	GLU
7	5B	1331	GLU
7	5B	1332	GLN
7	5B	1335	ASP
7	5B	1338	LYS
7	5B	1339	GLN
7	5B	1340	LYS
7	5B	1341	LYS
7	5B	1342	GLU
7	5B	1343	LYS
7	5B	1344	GLU
7	5B	1345	LEU
7	5B	1346	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5B	1347	LEU
7	5B	1348	LYS
7	5B	1349	LYS
7	5B	1352	GLU
7	5B	1353	GLU
7	5B	1355	GLN
7	5B	1356	LYS
7	5B	1358	LYS
7	5B	1362	MET
7	5B	1366	TRP
7	5B	1367	LYS
7	5B	1370	LYS
7	5B	1371	GLU
7	5B	1373	PHE
7	5B	1374	ASP
7	5B	1376	GLN
7	5B	1377	LYS
7	5B	1378	GLN
7	5B	1380	LEU
7	5B	1381	ILE
7	5B	1382	GLU
7	5B	1384	GLN
7	5B	1385	LYS
7	5B	1386	LYS
7	5B	1387	ILE
7	5B	1389	GLU
7	5B	1390	GLU
7	5B	1391	GLN
7	5B	1393	ARG
7	5B	1394	ARG
7	5B	1396	GLN
7	5B	1397	GLU
7	5B	1398	GLU
7	5B	1399	LYS
7	5B	1400	GLU
7	5B	1401	LYS
7	5B	1402	LYS
7	5B	1403	GLU
7	5B	1404	LYS
7	5B	1407	GLN
7	5B	1411	LYS
7	5B	1412	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5B	1414	ILE
7	5B	1416	LYS
7	5B	1417	GLN
7	5B	1420	GLU
7	5B	1421	PHE
7	5B	1422	LYS
7	5B	1423	LYS
7	5B	1425	LYS
7	5B	1426	GLU
7	5B	1427	LYS
7	5B	1430	GLN
7	5B	1431	GLU
7	5B	1433	GLU
7	5B	1434	LYS
7	5B	1435	GLN
7	5B	1436	ARG
7	5B	1443	LYS
7	5B	1444	LYS
7	5B	1445	LEU
7	5B	1447	GLU
7	5B	1449	LEU
7	5B	1450	HIS
7	5B	1452	HIS
7	5B	1453	ILE
7	5B	1455	LYS
7	5B	1456	THR
7	5B	1459	GLU
7	5B	1461	ILE
7	5B	1462	GLU
7	5B	1463	ILE
7	5B	1464	GLU
7	5B	1466	VAL
7	5B	1469	VAL
7	5B	1471	ILE
7	5B	1474	LEU
7	5B	1485	LYS
7	5B	1486	THR
7	5B	1487	ASN
7	5B	1488	GLU
7	5B	1489	PHE
7	5B	1490	LYS
7	5B	1491	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5B	1492	SER
7	5B	1562	LEU
7	5B	1564	GLU
7	5B	1565	GLU
7	5B	1577	LYS
7	5C	771	LEU
7	5C	772	LEU
7	5C	773	ARG
7	5C	796	GLU
7	5C	800	LYS
7	5C	801	LEU
7	5C	803	VAL
7	5C	804	VAL
7	5C	806	GLN
7	5C	808	GLN
7	5C	810	THR
7	5C	811	GLN
7	5C	817	LEU
7	5C	832	ASN
7	5C	835	GLN
7	5C	836	ARG
7	5C	837	ASP
7	5C	839	GLU
7	5C	841	VAL
7	5C	842	LEU
7	5C	843	LEU
7	5C	915	PHE
7	5C	1068	SER
7	5C	1083	THR
7	5C	1094	GLU
7	5C	1095	GLU
7	5C	1105	TYR
7	5C	1124	ILE
7	5C	1125	LEU
7	5C	1138	LEU
7	5C	1141	LEU
7	5C	1148	PHE
7	5C	1157	THR
7	5C	1160	VAL
7	5C	1166	LEU
7	5C	1243	ASP
7	5C	1247	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5C	1255	TYR
7	5C	1260	THR
7	5C	1269	ASP
7	5C	1271	ILE
7	5C	1272	ILE
7	5C	1274	SER
7	5C	1279	ASP
7	5C	1285	ARG
7	5C	1294	ILE
7	5C	1295	LYS
7	5C	1296	GLU
7	5C	1297	LYS
7	5C	1298	LYS
7	5C	1299	LYS
7	5C	1301	GLU
7	5C	1309	LYS
7	5C	1314	LYS
7	5C	1315	ARG
7	5C	1316	LEU
7	5C	1317	LYS
7	5C	1319	HIS
7	5C	1321	PHE
7	5C	1323	MET
7	5C	1325	ARG
7	5C	1328	GLU
7	5C	1331	GLU
7	5C	1332	GLN
7	5C	1335	ASP
7	5C	1338	LYS
7	5C	1339	GLN
7	5C	1340	LYS
7	5C	1341	LYS
7	5C	1342	GLU
7	5C	1343	LYS
7	5C	1344	GLU
7	5C	1345	LEU
7	5C	1346	GLN
7	5C	1347	LEU
7	5C	1348	LYS
7	5C	1349	LYS
7	5C	1352	GLU
7	5C	1353	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5C	1355	GLN
7	5C	1356	LYS
7	5C	1358	LYS
7	5C	1362	MET
7	5C	1366	TRP
7	5C	1367	LYS
7	5C	1370	LYS
7	5C	1371	GLU
7	5C	1373	PHE
7	5C	1374	ASP
7	5C	1376	GLN
7	5C	1377	LYS
7	5C	1378	GLN
7	5C	1380	LEU
7	5C	1381	ILE
7	5C	1382	GLU
7	5C	1384	GLN
7	5C	1385	LYS
7	5C	1386	LYS
7	5C	1387	ILE
7	5C	1389	GLU
7	5C	1390	GLU
7	5C	1391	GLN
7	5C	1393	ARG
7	5C	1394	ARG
7	5C	1396	GLN
7	5C	1397	GLU
7	5C	1398	GLU
7	5C	1399	LYS
7	5C	1400	GLU
7	5C	1401	LYS
7	5C	1402	LYS
7	5C	1403	GLU
7	5C	1404	LYS
7	5C	1407	GLN
7	5C	1411	LYS
7	5C	1412	LYS
7	5C	1414	ILE
7	5C	1416	LYS
7	5C	1417	GLN
7	5C	1420	GLU
7	5C	1421	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5C	1422	LYS
7	5C	1423	LYS
7	5C	1425	LYS
7	5C	1426	GLU
7	5C	1427	LYS
7	5C	1430	GLN
7	5C	1431	GLU
7	5C	1433	GLU
7	5C	1434	LYS
7	5C	1435	GLN
7	5C	1436	ARG
7	5C	1443	LYS
7	5C	1444	LYS
7	5C	1445	LEU
7	5C	1447	GLU
7	5C	1449	LEU
7	5C	1450	HIS
7	5C	1452	HIS
7	5C	1453	ILE
7	5C	1455	LYS
7	5C	1456	THR
7	5C	1459	GLU
7	5C	1461	ILE
7	5C	1462	GLU
7	5C	1463	ILE
7	5C	1464	GLU
7	5C	1466	VAL
7	5C	1469	VAL
7	5C	1471	ILE
7	5C	1474	LEU
7	5C	1485	LYS
7	5C	1486	THR
7	5C	1487	ASN
7	5C	1488	GLU
7	5C	1489	PHE
7	5C	1490	LYS
7	5C	1491	LEU
7	5C	1492	SER
7	5C	1562	LEU
7	5C	1564	GLU
7	5C	1565	GLU
7	5C	1577	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	6A	136	LEU
8	6A	178	LEU
8	6A	225	GLU
8	6A	252	THR
8	6B	136	LEU
8	6B	178	LEU
8	6B	225	GLU
8	6B	252	THR
8	6C	136	LEU
8	6C	178	LEU
8	6C	225	GLU
8	6C	252	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (386) such sidechains are listed below:

Mol	Chain	Res	Type
1	AA	101	ASN
1	AA	192	HIS
2	AB	100	ASN
2	AB	227	HIS
2	AB	334	GLN
1	AC	101	ASN
1	AC	192	HIS
1	AC	256	GLN
1	AC	342	GLN
2	AD	100	ASN
2	AD	227	HIS
2	AD	334	GLN
1	AE	101	ASN
1	AE	192	HIS
1	AE	256	GLN
1	AE	342	GLN
2	AF	100	ASN
2	AF	227	HIS
2	AF	334	GLN
1	BA	101	ASN
1	BA	192	HIS
2	BB	100	ASN
2	BB	227	HIS
2	BB	334	GLN
1	BC	101	ASN
1	BC	192	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	BC	256	GLN
2	BD	100	ASN
2	BD	227	HIS
2	BD	334	GLN
1	BE	101	ASN
1	BE	192	HIS
1	BE	256	GLN
2	BF	100	ASN
2	BF	227	HIS
2	BF	334	GLN
1	CA	101	ASN
1	CA	192	HIS
2	CB	100	ASN
2	CB	227	HIS
2	CB	334	GLN
1	CC	101	ASN
1	CC	192	HIS
1	CC	256	GLN
2	CD	100	ASN
2	CD	227	HIS
2	CD	334	GLN
1	CE	101	ASN
1	CE	192	HIS
1	CE	256	GLN
2	CF	100	ASN
2	CF	227	HIS
2	CF	334	GLN
1	DA	101	ASN
1	DA	128	ASN
1	DA	192	HIS
2	DB	100	ASN
2	DB	227	HIS
2	DB	334	GLN
1	DC	101	ASN
1	DC	128	ASN
1	DC	192	HIS
1	DC	256	GLN
2	DD	100	ASN
2	DD	227	HIS
2	DD	334	GLN
1	DE	101	ASN
1	DE	128	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	DE	192	HIS
1	DE	256	GLN
1	DE	285	GLN
2	DF	100	ASN
2	DF	334	GLN
1	EA	101	ASN
1	EA	192	HIS
1	EA	285	GLN
2	EB	100	ASN
2	EB	227	HIS
2	EB	334	GLN
1	EC	101	ASN
1	EC	192	HIS
1	EC	256	GLN
1	EC	285	GLN
2	ED	100	ASN
2	ED	334	GLN
1	EE	101	ASN
1	EE	192	HIS
1	EE	256	GLN
1	EE	285	GLN
2	EF	100	ASN
2	EF	227	HIS
2	EF	334	GLN
1	FA	11	GLN
1	FA	101	ASN
1	FA	192	HIS
1	FA	283	HIS
1	FA	285	GLN
2	FB	100	ASN
2	FB	227	HIS
2	FB	334	GLN
1	FC	101	ASN
1	FC	192	HIS
1	FC	256	GLN
1	FC	283	HIS
2	FD	100	ASN
2	FD	227	HIS
2	FD	334	GLN
1	FE	101	ASN
1	FE	192	HIS
1	FE	256	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	FE	283	HIS
2	FF	100	ASN
2	FF	227	HIS
2	FF	334	GLN
1	GA	101	ASN
1	GA	192	HIS
1	GA	283	HIS
2	GB	100	ASN
2	GB	227	HIS
2	GB	334	GLN
1	GC	101	ASN
1	GC	192	HIS
1	GC	256	GLN
1	GC	283	HIS
2	GD	100	ASN
2	GD	227	HIS
2	GD	334	GLN
1	GE	101	ASN
1	GE	192	HIS
1	GE	256	GLN
1	GE	283	HIS
2	GF	100	ASN
2	GF	227	HIS
2	GF	334	GLN
1	HA	101	ASN
1	HA	192	HIS
2	HB	100	ASN
2	HB	227	HIS
2	HB	334	GLN
1	HC	101	ASN
1	HC	192	HIS
1	HC	256	GLN
2	HD	100	ASN
2	HD	227	HIS
2	HD	334	GLN
1	HE	101	ASN
1	HE	192	HIS
1	HE	256	GLN
1	HE	285	GLN
2	HF	100	ASN
2	HF	227	HIS
2	HF	334	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	IA	101	ASN
1	IA	192	HIS
2	IB	100	ASN
2	IB	227	HIS
2	IB	334	GLN
2	IB	424	GLN
1	IC	101	ASN
1	IC	192	HIS
1	IC	256	GLN
2	ID	100	ASN
2	ID	227	HIS
2	ID	334	GLN
2	ID	424	GLN
1	IE	101	ASN
1	IE	192	HIS
1	IE	256	GLN
2	IF	100	ASN
2	IF	227	HIS
2	IF	334	GLN
2	IF	424	GLN
1	JA	88	HIS
1	JA	101	ASN
1	JA	128	ASN
1	JA	192	HIS
1	JA	285	GLN
2	JB	100	ASN
2	JB	227	HIS
2	JB	334	GLN
1	JC	88	HIS
1	JC	101	ASN
1	JC	192	HIS
1	JC	256	GLN
1	JC	285	GLN
2	JD	100	ASN
2	JD	227	HIS
2	JD	334	GLN
1	JE	88	HIS
1	JE	101	ASN
1	JE	192	HIS
1	JE	256	GLN
1	JE	285	GLN
2	JF	100	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	JF	227	HIS
2	JF	334	GLN
1	KA	101	ASN
1	KA	192	HIS
2	KB	83	GLN
2	KB	100	ASN
2	KB	227	HIS
2	KB	334	GLN
2	KB	335	ASN
1	KC	101	ASN
1	KC	192	HIS
1	KC	256	GLN
1	KC	285	GLN
2	KD	83	GLN
2	KD	100	ASN
2	KD	227	HIS
2	KD	334	GLN
2	KD	335	ASN
1	KE	101	ASN
1	KE	192	HIS
1	KE	256	GLN
1	KE	285	GLN
2	KF	100	ASN
2	KF	227	HIS
2	KF	334	GLN
2	KF	335	ASN
1	LA	35	GLN
1	LA	101	ASN
1	LA	192	HIS
2	LB	11	GLN
2	LB	15	GLN
2	LB	100	ASN
2	LB	334	GLN
2	LB	337	ASN
1	LC	35	GLN
1	LC	101	ASN
1	LC	192	HIS
1	LC	249	ASN
1	LC	256	GLN
2	LD	15	GLN
2	LD	100	ASN
2	LD	334	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	LD	337	ASN
1	LE	35	GLN
1	LE	101	ASN
1	LE	192	HIS
1	LE	256	GLN
2	LF	15	GLN
2	LF	100	ASN
2	LF	334	GLN
2	LF	337	ASN
1	MA	11	GLN
1	MA	101	ASN
1	MA	192	HIS
2	MB	100	ASN
2	MB	334	GLN
1	MC	11	GLN
1	MC	101	ASN
1	MC	192	HIS
1	MC	256	GLN
2	MD	11	GLN
2	MD	100	ASN
2	MD	227	HIS
2	MD	334	GLN
1	ME	11	GLN
1	ME	101	ASN
1	ME	192	HIS
1	ME	256	GLN
2	MF	100	ASN
2	MF	227	HIS
2	MF	334	GLN
3	1A	65	GLN
3	1A	69	ASN
3	1B	65	GLN
3	1B	69	ASN
3	1C	65	GLN
3	1C	69	ASN
4	2A	27	ASN
4	2A	49	GLN
4	2A	144	ASN
4	2A	148	ASN
4	2A	162	GLN
4	2B	27	ASN
4	2B	49	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	2B	148	ASN
4	2B	162	GLN
4	2C	27	ASN
4	2C	49	GLN
4	2C	144	ASN
4	2C	162	GLN
5	3A	3	GLN
5	3A	108	GLN
5	3A	192	GLN
5	3A	211	GLN
5	3A	290	GLN
5	3A	331	GLN
5	3A	381	ASN
5	3B	3	GLN
5	3B	108	GLN
5	3B	192	GLN
5	3B	290	GLN
5	3B	331	GLN
5	3C	3	GLN
5	3C	108	GLN
5	3C	192	GLN
5	3C	211	GLN
5	3C	290	GLN
5	3C	331	GLN
5	3C	381	ASN
6	4A	97	GLN
6	4A	136	HIS
6	4A	195	ASN
6	4A	196	GLN
6	4A	198	ASN
6	4A	256	ASN
6	4B	97	GLN
6	4B	195	ASN
6	4B	196	GLN
6	4B	198	ASN
6	4B	256	ASN
6	4B	262	ASN
6	4C	97	GLN
6	4C	136	HIS
6	4C	195	ASN
6	4C	198	ASN
6	4C	219	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	4C	256	ASN
6	4C	262	ASN
6	4D	97	GLN
6	4D	195	ASN
6	4D	196	GLN
6	4D	198	ASN
6	4D	219	ASN
6	4D	256	ASN
6	4D	262	ASN
7	5A	806	GLN
7	5A	834	ASN
7	5A	835	GLN
7	5A	911	ASN
7	5A	921	HIS
7	5A	1057	HIS
7	5A	1319	HIS
7	5A	1332	GLN
7	5A	1333	ASN
7	5A	1339	GLN
7	5A	1384	GLN
7	5A	1391	GLN
7	5A	1407	GLN
7	5A	1424	GLN
7	5A	1442	GLN
7	5A	1452	HIS
7	5A	1557	HIS
7	5B	806	GLN
7	5B	828	GLN
7	5B	834	ASN
7	5B	835	GLN
7	5B	921	HIS
7	5B	1057	HIS
7	5B	1319	HIS
7	5B	1332	GLN
7	5B	1339	GLN
7	5B	1384	GLN
7	5B	1391	GLN
7	5B	1407	GLN
7	5B	1413	GLN
7	5B	1424	GLN
7	5B	1442	GLN
7	5B	1452	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	5B	1557	HIS
7	5C	806	GLN
7	5C	834	ASN
7	5C	835	GLN
7	5C	911	ASN
7	5C	921	HIS
7	5C	1057	HIS
7	5C	1319	HIS
7	5C	1332	GLN
7	5C	1339	GLN
7	5C	1384	GLN
7	5C	1391	GLN
7	5C	1407	GLN
7	5C	1424	GLN
7	5C	1442	GLN
7	5C	1452	HIS
7	5C	1557	HIS
8	6A	70	ASN
8	6A	102	ASN
8	6B	70	ASN
8	6B	102	ASN
8	6C	70	ASN
8	6C	102	ASN
8	6C	110	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 117 ligands modelled in this entry, 39 are monoatomic - leaving 78 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
11	GTP	AE	501	12	33,34,34	0.92	2 (6%)	50,54,54	1.57	9 (18%)
13	GDP	FD	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	KD	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.76	7 (15%)
11	GTP	JC	501	12	33,34,34	0.92	1 (3%)	50,54,54	1.57	9 (18%)
11	GTP	KE	501	12	33,34,34	0.92	2 (6%)	50,54,54	1.57	9 (18%)
11	GTP	IE	501	12	33,34,34	0.92	2 (6%)	50,54,54	1.57	9 (18%)
13	GDP	BD	501	-	29,30,30	1.19	3 (10%)	45,47,47	1.76	7 (15%)
13	GDP	CF	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.75	7 (15%)
11	GTP	LC	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.58	9 (18%)
11	GTP	AC	501	12	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
13	GDP	IF	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
11	GTP	DA	501	12	33,34,34	0.91	1 (3%)	50,54,54	1.57	9 (18%)
11	GTP	BA	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.59	9 (18%)
13	GDP	GD	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	HF	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	JF	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
11	GTP	BE	501	12	33,34,34	0.92	2 (6%)	50,54,54	1.58	9 (18%)
13	GDP	MD	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
11	GTP	IC	501	12	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
11	GTP	LE	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.58	9 (18%)
13	GDP	ID	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	KF	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	LB	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.75	7 (15%)
11	GTP	DE	501	12	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
11	GTP	HE	501	12	33,34,34	0.92	2 (6%)	50,54,54	1.57	9 (18%)
13	GDP	FB	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	FF	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.76	7 (15%)
11	GTP	HC	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.57	9 (18%)
13	GDP	DF	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.76	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
11	GTP	EA	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.57	9 (18%)
13	GDP	BB	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	LF	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	GF	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	MB	502	-	29,30,30	1.18	3 (10%)	45,47,47	1.75	7 (15%)
11	GTP	CC	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.59	9 (18%)
13	GDP	AB	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
11	GTP	FC	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.58	9 (18%)
11	GTP	KA	501	12	33,34,34	0.92	2 (6%)	50,54,54	1.58	9 (18%)
11	GTP	GE	501	12	33,34,34	0.93	2 (6%)	50,54,54	1.57	9 (18%)
13	GDP	AF	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
11	GTP	FA	501	12	33,34,34	0.92	2 (6%)	50,54,54	1.58	9 (18%)
13	GDP	EB	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	HB	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.76	7 (15%)
11	GTP	HA	501	12	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
13	GDP	DD	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	MF	502	-	29,30,30	1.18	3 (10%)	45,47,47	1.75	7 (15%)
11	GTP	CA	501	12	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
11	GTP	GA	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.58	9 (18%)
13	GDP	JB	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.76	7 (15%)
13	GDP	BF	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	HD	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	DB	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.76	7 (15%)
11	GTP	JE	501	12	33,34,34	0.92	2 (6%)	50,54,54	1.57	9 (18%)
11	GTP	DC	501	12	33,34,34	0.90	1 (3%)	50,54,54	1.58	9 (18%)
11	GTP	JA	501	12	33,34,34	0.92	2 (6%)	50,54,54	1.58	9 (18%)
13	GDP	GB	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.76	7 (15%)
11	GTP	ME	501	12	33,34,34	0.92	2 (6%)	50,54,54	1.58	9 (18%)
13	GDP	CD	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.76	7 (15%)
11	GTP	FE	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.59	9 (18%)
11	GTP	LA	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.58	9 (18%)
11	GTP	KC	501	12	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
11	GTP	IA	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.58	9 (18%)
11	GTP	EC	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.58	9 (18%)
13	GDP	ED	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.76	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
13	GDP	EF	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
13	GDP	CB	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
11	GTP	EE	501	12	33,34,34	0.92	2 (6%)	50,54,54	1.58	9 (18%)
11	GTP	GC	501	12	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
13	GDP	KB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	AD	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.76	7 (15%)
11	GTP	MA	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.58	9 (18%)
13	GDP	LD	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.75	7 (15%)
13	GDP	JD	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.76	7 (15%)
11	GTP	CE	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.58	9 (18%)
13	GDP	IB	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.75	7 (15%)
11	GTP	BC	501	12	33,34,34	0.91	2 (6%)	50,54,54	1.58	9 (18%)
11	GTP	MC	501	12	33,34,34	0.92	2 (6%)	50,54,54	1.58	9 (18%)
11	GTP	AA	501	12	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	GTP	AE	501	12	-	8/22/38/38	0/3/3/3
13	GDP	FD	502	-	-	0/16/32/32	0/3/3/3
13	GDP	KD	501	-	-	0/16/32/32	0/3/3/3
11	GTP	JC	501	12	-	8/22/38/38	0/3/3/3
11	GTP	KE	501	12	-	8/22/38/38	0/3/3/3
11	GTP	IE	501	12	-	8/22/38/38	0/3/3/3
13	GDP	BD	501	-	-	0/16/32/32	0/3/3/3
13	GDP	CF	501	-	-	1/16/32/32	0/3/3/3
11	GTP	LC	501	12	-	8/22/38/38	0/3/3/3
11	GTP	AC	501	12	-	8/22/38/38	0/3/3/3
13	GDP	IF	501	-	-	1/16/32/32	0/3/3/3
11	GTP	DA	501	12	-	8/22/38/38	0/3/3/3
11	GTP	BA	501	12	-	8/22/38/38	0/3/3/3
13	GDP	GD	501	-	-	0/16/32/32	0/3/3/3
13	GDP	HF	501	-	-	0/16/32/32	0/3/3/3
13	GDP	JF	501	-	-	1/16/32/32	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	GTP	BE	501	12	-	8/22/38/38	0/3/3/3
13	GDP	MD	502	-	-	1/16/32/32	0/3/3/3
11	GTP	IC	501	12	-	8/22/38/38	0/3/3/3
11	GTP	LE	501	12	-	8/22/38/38	0/3/3/3
13	GDP	ID	501	-	-	0/16/32/32	0/3/3/3
13	GDP	KF	501	-	-	0/16/32/32	0/3/3/3
13	GDP	LB	501	-	-	0/16/32/32	0/3/3/3
11	GTP	DE	501	12	-	8/22/38/38	0/3/3/3
11	GTP	HE	501	12	-	8/22/38/38	0/3/3/3
13	GDP	FB	502	-	-	1/16/32/32	0/3/3/3
13	GDP	FF	501	-	-	1/16/32/32	0/3/3/3
11	GTP	HC	501	12	-	8/22/38/38	0/3/3/3
13	GDP	DF	501	-	-	1/16/32/32	0/3/3/3
11	GTP	EA	501	12	-	8/22/38/38	0/3/3/3
13	GDP	BB	501	-	-	0/16/32/32	0/3/3/3
13	GDP	LF	501	-	-	0/16/32/32	0/3/3/3
13	GDP	GF	501	-	-	1/16/32/32	0/3/3/3
13	GDP	MB	502	-	-	0/16/32/32	0/3/3/3
11	GTP	CC	501	12	-	8/22/38/38	0/3/3/3
13	GDP	AB	501	-	-	0/16/32/32	0/3/3/3
11	GTP	FC	501	12	-	8/22/38/38	0/3/3/3
11	GTP	KA	501	12	-	8/22/38/38	0/3/3/3
11	GTP	GE	501	12	-	8/22/38/38	0/3/3/3
13	GDP	AF	501	-	-	1/16/32/32	0/3/3/3
11	GTP	FA	501	12	-	8/22/38/38	0/3/3/3
13	GDP	EB	501	-	-	0/16/32/32	0/3/3/3
13	GDP	HB	501	-	-	0/16/32/32	0/3/3/3
11	GTP	HA	501	12	-	8/22/38/38	0/3/3/3
13	GDP	DD	501	-	-	1/16/32/32	0/3/3/3
13	GDP	MF	502	-	-	0/16/32/32	0/3/3/3
11	GTP	CA	501	12	-	8/22/38/38	0/3/3/3
11	GTP	GA	501	12	-	8/22/38/38	0/3/3/3
13	GDP	JB	501	-	-	0/16/32/32	0/3/3/3
13	GDP	BF	501	-	-	1/16/32/32	0/3/3/3
13	GDP	HD	501	-	-	0/16/32/32	0/3/3/3
13	GDP	DB	501	-	-	0/16/32/32	0/3/3/3
11	GTP	JE	501	12	-	8/22/38/38	0/3/3/3
11	GTP	DC	501	12	-	8/22/38/38	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	GTP	JA	501	12	-	8/22/38/38	0/3/3/3
13	GDP	GB	501	-	-	1/16/32/32	0/3/3/3
11	GTP	ME	501	12	-	8/22/38/38	0/3/3/3
13	GDP	CD	501	-	-	1/16/32/32	0/3/3/3
11	GTP	FE	501	12	-	8/22/38/38	0/3/3/3
11	GTP	LA	501	12	-	8/22/38/38	0/3/3/3
11	GTP	KC	501	12	-	8/22/38/38	0/3/3/3
11	GTP	IA	501	12	-	8/22/38/38	0/3/3/3
11	GTP	EC	501	12	-	8/22/38/38	0/3/3/3
13	GDP	ED	502	-	-	0/16/32/32	0/3/3/3
13	GDP	EF	501	-	-	0/16/32/32	0/3/3/3
13	GDP	CB	501	-	-	1/16/32/32	0/3/3/3
11	GTP	EE	501	12	-	8/22/38/38	0/3/3/3
11	GTP	GC	501	12	-	8/22/38/38	0/3/3/3
13	GDP	KB	501	-	-	0/16/32/32	0/3/3/3
13	GDP	AD	501	-	-	0/16/32/32	0/3/3/3
11	GTP	MA	501	12	-	8/22/38/38	0/3/3/3
13	GDP	LD	501	-	-	1/16/32/32	0/3/3/3
13	GDP	JD	501	-	-	0/16/32/32	0/3/3/3
11	GTP	CE	501	12	-	8/22/38/38	0/3/3/3
13	GDP	IB	501	-	-	0/16/32/32	0/3/3/3
11	GTP	BC	501	12	-	8/22/38/38	0/3/3/3
11	GTP	MC	501	12	-	8/22/38/38	0/3/3/3
11	GTP	AA	501	12	-	8/22/38/38	0/3/3/3

All (184) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	LF	501	GDP	C5-C4	3.12	1.47	1.38
13	FF	501	GDP	C5-C4	3.11	1.47	1.38
13	EF	501	GDP	C5-C4	3.10	1.47	1.38
13	ED	502	GDP	C5-C4	3.10	1.47	1.38
13	EB	501	GDP	C5-C4	3.10	1.47	1.38
13	LD	501	GDP	C5-C4	3.09	1.47	1.38
13	JF	501	GDP	C5-C4	3.09	1.47	1.38
13	BF	501	GDP	C5-C4	3.09	1.47	1.38
13	LB	501	GDP	C5-C4	3.09	1.47	1.38
13	CD	501	GDP	C5-C4	3.09	1.47	1.38
13	BB	501	GDP	C5-C4	3.09	1.47	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	BD	501	GDP	C5-C4	3.09	1.47	1.38
13	DB	501	GDP	C5-C4	3.08	1.47	1.38
13	FD	502	GDP	C5-C4	3.08	1.47	1.38
13	GB	501	GDP	C5-C4	3.08	1.47	1.38
13	DF	501	GDP	C5-C4	3.08	1.47	1.38
13	AF	501	GDP	C5-C4	3.08	1.47	1.38
13	KF	501	GDP	C5-C4	3.08	1.47	1.38
13	MB	502	GDP	C5-C4	3.08	1.47	1.38
13	MF	502	GDP	C5-C4	3.07	1.47	1.38
13	DD	501	GDP	C5-C4	3.07	1.47	1.38
13	IF	501	GDP	C5-C4	3.07	1.47	1.38
13	IB	501	GDP	C5-C4	3.07	1.47	1.38
13	HF	501	GDP	C5-C4	3.07	1.47	1.38
13	JB	501	GDP	C5-C4	3.07	1.47	1.38
13	AB	501	GDP	C5-C4	3.07	1.47	1.38
13	GF	501	GDP	C5-C4	3.07	1.47	1.38
13	HD	501	GDP	C5-C4	3.07	1.47	1.38
13	KD	501	GDP	C5-C4	3.06	1.47	1.38
13	AD	501	GDP	C5-C4	3.06	1.47	1.38
13	HB	501	GDP	C5-C4	3.06	1.47	1.38
13	MD	502	GDP	C5-C4	3.06	1.47	1.38
13	FB	502	GDP	C5-C4	3.06	1.47	1.38
13	KB	501	GDP	C5-C4	3.05	1.47	1.38
13	CB	501	GDP	C5-C4	3.05	1.47	1.38
13	JD	501	GDP	C5-C4	3.05	1.47	1.38
13	CF	501	GDP	C5-C4	3.04	1.47	1.38
13	GD	501	GDP	C5-C4	3.03	1.47	1.38
13	ID	501	GDP	C5-C4	3.02	1.47	1.38
13	GD	501	GDP	C6-N1	-2.65	1.33	1.38
13	JD	501	GDP	C6-N1	-2.65	1.33	1.38
13	AD	501	GDP	C6-N1	-2.63	1.33	1.38
13	ID	501	GDP	C6-N1	-2.63	1.33	1.38
13	MF	502	GDP	C6-N1	-2.62	1.33	1.38
13	BD	501	GDP	C6-N1	-2.62	1.33	1.38
13	LD	501	GDP	C6-N1	-2.62	1.33	1.38
13	KD	501	GDP	C6-N1	-2.61	1.34	1.38
13	EF	501	GDP	C6-N1	-2.61	1.34	1.38
13	KF	501	GDP	C6-N1	-2.61	1.34	1.38
13	CF	501	GDP	C6-N1	-2.61	1.34	1.38
13	FB	502	GDP	C6-N1	-2.60	1.34	1.38
13	GB	501	GDP	C6-N1	-2.60	1.34	1.38
13	GF	501	GDP	C6-N1	-2.60	1.34	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	HF	501	GDP	C6-N1	-2.60	1.34	1.38
13	DD	501	GDP	C6-N1	-2.60	1.34	1.38
13	MB	502	GDP	C6-N1	-2.59	1.34	1.38
13	BB	501	GDP	C6-N1	-2.59	1.34	1.38
13	MD	502	GDP	C6-N1	-2.59	1.34	1.38
13	IF	501	GDP	C6-N1	-2.59	1.34	1.38
13	HD	501	GDP	C6-N1	-2.58	1.34	1.38
13	AF	501	GDP	C6-N1	-2.58	1.34	1.38
13	DB	501	GDP	C6-N1	-2.58	1.34	1.38
13	ED	502	GDP	C6-N1	-2.58	1.34	1.38
13	AB	501	GDP	C6-N1	-2.58	1.34	1.38
13	IB	501	GDP	C6-N1	-2.58	1.34	1.38
13	HB	501	GDP	C6-N1	-2.58	1.34	1.38
13	LB	501	GDP	C6-N1	-2.57	1.34	1.38
13	LF	501	GDP	C6-N1	-2.57	1.34	1.38
13	JB	501	GDP	C6-N1	-2.57	1.34	1.38
13	JF	501	GDP	C6-N1	-2.56	1.34	1.38
13	KB	501	GDP	C6-N1	-2.56	1.34	1.38
13	FF	501	GDP	C6-N1	-2.56	1.34	1.38
13	CB	501	GDP	C6-N1	-2.55	1.34	1.38
13	DF	501	GDP	C6-N1	-2.55	1.34	1.38
13	CD	501	GDP	C6-N1	-2.55	1.34	1.38
13	BF	501	GDP	C6-N1	-2.55	1.34	1.38
13	EB	501	GDP	C6-N1	-2.54	1.34	1.38
13	FD	502	GDP	C6-N1	-2.53	1.34	1.38
11	BC	501	GTP	C2-N3	2.22	1.38	1.33
11	HE	501	GTP	C2-N3	2.21	1.38	1.33
11	IE	501	GTP	C2-N3	2.19	1.38	1.33
11	BE	501	GTP	C2-N3	2.18	1.38	1.33
11	DC	501	GTP	C2-N3	2.18	1.38	1.33
11	EE	501	GTP	C2-N3	2.18	1.38	1.33
11	BA	501	GTP	C2-N3	2.18	1.38	1.33
11	DA	501	GTP	C2-N3	2.18	1.38	1.33
13	BD	501	GDP	C5-N7	-2.18	1.34	1.39
11	AE	501	GTP	C2-N3	2.17	1.38	1.33
11	KC	501	GTP	C2-N3	2.17	1.38	1.33
13	DB	501	GDP	C5-N7	-2.17	1.34	1.39
11	EC	501	GTP	C2-N3	2.17	1.38	1.33
11	GE	501	GTP	C2-N3	2.17	1.38	1.33
11	JE	501	GTP	C2-N3	2.16	1.38	1.33
13	MB	502	GDP	C5-N7	-2.16	1.34	1.39
11	JC	501	GTP	C2-N3	2.16	1.38	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	LF	501	GDP	C5-N7	-2.16	1.34	1.39
11	KE	501	GTP	C2-N3	2.16	1.38	1.33
13	LD	501	GDP	C5-N7	-2.16	1.34	1.39
11	JA	501	GTP	C2-N3	2.16	1.38	1.33
11	HA	501	GTP	C2-N3	2.16	1.38	1.33
11	MC	501	GTP	C2-N3	2.15	1.38	1.33
11	GA	501	GTP	C2-N3	2.15	1.38	1.33
11	CA	501	GTP	C2-N3	2.15	1.38	1.33
11	HC	501	GTP	C2-N3	2.15	1.38	1.33
11	FE	501	GTP	C2-N3	2.15	1.38	1.33
11	EA	501	GTP	C2-N3	2.15	1.38	1.33
11	AC	501	GTP	C2-N3	2.15	1.38	1.33
13	FB	502	GDP	C5-N7	-2.15	1.34	1.39
11	AA	501	GTP	C2-N3	2.14	1.38	1.33
11	ME	501	GTP	C2-N3	2.14	1.38	1.33
13	BF	501	GDP	C5-N7	-2.14	1.34	1.39
13	DD	501	GDP	C5-N7	-2.14	1.34	1.39
13	BB	501	GDP	C5-N7	-2.14	1.34	1.39
11	KA	501	GTP	C2-N3	2.13	1.38	1.33
11	MA	501	GTP	C2-N3	2.13	1.38	1.33
13	MD	502	GDP	C5-N7	-2.13	1.34	1.39
11	DE	501	GTP	C2-N3	2.13	1.38	1.33
13	FD	502	GDP	C5-N7	-2.13	1.34	1.39
11	CE	501	GTP	C2-N3	2.13	1.38	1.33
11	FA	501	GTP	C2-N3	2.13	1.38	1.33
11	LA	501	GTP	C2-N3	2.13	1.38	1.33
13	CD	501	GDP	C5-N7	-2.13	1.34	1.39
11	GC	501	GTP	C2-N3	2.13	1.38	1.33
11	LE	501	GTP	C2-N3	2.13	1.38	1.33
13	KF	501	GDP	C5-N7	-2.12	1.34	1.39
11	IA	501	GTP	C2-N3	2.12	1.38	1.33
13	JB	501	GDP	C5-N7	-2.12	1.34	1.39
11	CC	501	GTP	C2-N3	2.12	1.38	1.33
13	MF	502	GDP	C5-N7	-2.11	1.34	1.39
13	JF	501	GDP	C5-N7	-2.11	1.34	1.39
11	IC	501	GTP	C2-N3	2.11	1.38	1.33
13	LB	501	GDP	C5-N7	-2.11	1.34	1.39
13	GB	501	GDP	C5-N7	-2.11	1.34	1.39
11	FC	501	GTP	C2-N3	2.11	1.38	1.33
13	HF	501	GDP	C5-N7	-2.11	1.34	1.39
13	AF	501	GDP	C5-N7	-2.11	1.34	1.39
13	ED	502	GDP	C5-N7	-2.11	1.34	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	FF	501	GDP	C5-N7	-2.10	1.34	1.39
13	CB	501	GDP	C5-N7	-2.10	1.34	1.39
13	DF	501	GDP	C5-N7	-2.10	1.34	1.39
13	CF	501	GDP	C5-N7	-2.10	1.34	1.39
13	JD	501	GDP	C5-N7	-2.10	1.34	1.39
13	AB	501	GDP	C5-N7	-2.10	1.34	1.39
13	IF	501	GDP	C5-N7	-2.10	1.34	1.39
13	IB	501	GDP	C5-N7	-2.09	1.34	1.39
13	KD	501	GDP	C5-N7	-2.09	1.34	1.39
13	EB	501	GDP	C5-N7	-2.09	1.34	1.39
13	GF	501	GDP	C5-N7	-2.09	1.34	1.39
13	GD	501	GDP	C5-N7	-2.09	1.34	1.39
13	EF	501	GDP	C5-N7	-2.08	1.34	1.39
13	AD	501	GDP	C5-N7	-2.08	1.34	1.39
11	BE	501	GTP	C5-N7	-2.08	1.34	1.39
11	LC	501	GTP	C2-N3	2.07	1.38	1.33
11	KE	501	GTP	C5-N7	-2.06	1.34	1.39
11	GE	501	GTP	C5-N7	-2.06	1.34	1.39
13	HD	501	GDP	C5-N7	-2.06	1.34	1.39
11	CC	501	GTP	C5-N7	-2.06	1.34	1.39
13	HB	501	GDP	C5-N7	-2.05	1.35	1.39
13	ID	501	GDP	C5-N7	-2.05	1.35	1.39
11	LE	501	GTP	C5-N7	-2.05	1.35	1.39
11	LC	501	GTP	C5-N7	-2.04	1.35	1.39
11	BA	501	GTP	C5-N7	-2.04	1.35	1.39
11	FA	501	GTP	C5-N7	-2.04	1.35	1.39
13	KB	501	GDP	C5-N7	-2.04	1.35	1.39
11	AE	501	GTP	C5-N7	-2.04	1.35	1.39
11	EA	501	GTP	C5-N7	-2.03	1.35	1.39
11	JA	501	GTP	C5-N7	-2.03	1.35	1.39
11	KA	501	GTP	C5-N7	-2.03	1.35	1.39
11	EE	501	GTP	C5-N7	-2.03	1.35	1.39
11	IE	501	GTP	C5-N7	-2.03	1.35	1.39
11	MA	501	GTP	C5-N7	-2.03	1.35	1.39
11	FC	501	GTP	C5-N7	-2.03	1.35	1.39
11	HE	501	GTP	C5-N7	-2.02	1.35	1.39
11	LA	501	GTP	C5-N7	-2.02	1.35	1.39
11	CE	501	GTP	C5-N7	-2.02	1.35	1.39
11	FE	501	GTP	C5-N7	-2.02	1.35	1.39
11	JE	501	GTP	C5-N7	-2.02	1.35	1.39
11	EC	501	GTP	C5-N7	-2.01	1.35	1.39
11	MC	501	GTP	C5-N7	-2.01	1.35	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	BC	501	GTP	C5-N7	-2.01	1.35	1.39
11	HC	501	GTP	C5-N7	-2.01	1.35	1.39
11	ME	501	GTP	C5-N7	-2.01	1.35	1.39
11	GA	501	GTP	C5-N7	-2.00	1.35	1.39
11	IA	501	GTP	C5-N7	-2.00	1.35	1.39

All (624) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	EF	501	GDP	C5-C4-N3	-6.18	118.55	128.39
13	KD	501	GDP	C5-C4-N3	-6.18	118.56	128.39
13	HD	501	GDP	C5-C4-N3	-6.16	118.58	128.39
13	FF	501	GDP	C5-C4-N3	-6.16	118.59	128.39
13	JD	501	GDP	C5-C4-N3	-6.16	118.59	128.39
13	AD	501	GDP	C5-C4-N3	-6.15	118.60	128.39
13	CD	501	GDP	C5-C4-N3	-6.15	118.60	128.39
13	GB	501	GDP	C5-C4-N3	-6.15	118.61	128.39
13	ID	501	GDP	C5-C4-N3	-6.15	118.61	128.39
13	ED	502	GDP	C5-C4-N3	-6.14	118.61	128.39
13	BD	501	GDP	C5-C4-N3	-6.14	118.62	128.39
13	IF	501	GDP	C5-C4-N3	-6.14	118.62	128.39
13	DD	501	GDP	C5-C4-N3	-6.13	118.63	128.39
13	GD	501	GDP	C5-C4-N3	-6.13	118.63	128.39
13	HB	501	GDP	C5-C4-N3	-6.13	118.63	128.39
13	MD	502	GDP	C5-C4-N3	-6.13	118.63	128.39
13	DF	501	GDP	C5-C4-N3	-6.13	118.63	128.39
13	JB	501	GDP	C5-C4-N3	-6.13	118.64	128.39
13	MB	502	GDP	C5-C4-N3	-6.13	118.64	128.39
13	BB	501	GDP	C5-C4-N3	-6.12	118.64	128.39
13	AF	501	GDP	C5-C4-N3	-6.12	118.65	128.39
13	AB	501	GDP	C5-C4-N3	-6.12	118.66	128.39
13	JF	501	GDP	C5-C4-N3	-6.12	118.66	128.39
13	BF	501	GDP	C5-C4-N3	-6.12	118.66	128.39
13	DB	501	GDP	C5-C4-N3	-6.11	118.66	128.39
13	EB	501	GDP	C5-C4-N3	-6.11	118.66	128.39
13	HF	501	GDP	C5-C4-N3	-6.11	118.66	128.39
13	MF	502	GDP	C5-C4-N3	-6.11	118.66	128.39
13	LB	501	GDP	C5-C4-N3	-6.11	118.67	128.39
13	KB	501	GDP	C5-C4-N3	-6.10	118.68	128.39
13	FD	502	GDP	C5-C4-N3	-6.10	118.68	128.39
13	GF	501	GDP	C5-C4-N3	-6.10	118.69	128.39
13	FB	502	GDP	C5-C4-N3	-6.09	118.69	128.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	KF	501	GDP	C5-C4-N3	-6.09	118.70	128.39
13	CB	501	GDP	C5-C4-N3	-6.08	118.71	128.39
13	LF	501	GDP	C5-C4-N3	-6.08	118.71	128.39
13	CF	501	GDP	C5-C4-N3	-6.08	118.71	128.39
13	IB	501	GDP	C5-C4-N3	-6.08	118.72	128.39
13	LD	501	GDP	C5-C4-N3	-6.07	118.72	128.39
11	FE	501	GTP	C5-C4-N3	-5.16	120.18	128.39
11	LE	501	GTP	C5-C4-N3	-5.15	120.20	128.39
11	EE	501	GTP	C5-C4-N3	-5.14	120.22	128.39
11	CC	501	GTP	C5-C4-N3	-5.13	120.22	128.39
11	BA	501	GTP	C5-C4-N3	-5.13	120.23	128.39
11	ME	501	GTP	C5-C4-N3	-5.12	120.23	128.39
11	LA	501	GTP	C5-C4-N3	-5.12	120.24	128.39
11	CA	501	GTP	C5-C4-N3	-5.12	120.24	128.39
11	MA	501	GTP	C5-C4-N3	-5.12	120.25	128.39
11	IA	501	GTP	C5-C4-N3	-5.11	120.26	128.39
11	BC	501	GTP	C5-C4-N3	-5.11	120.26	128.39
11	KA	501	GTP	C5-C4-N3	-5.11	120.26	128.39
11	FA	501	GTP	C5-C4-N3	-5.11	120.26	128.39
11	DC	501	GTP	C5-C4-N3	-5.11	120.26	128.39
11	FC	501	GTP	C5-C4-N3	-5.11	120.26	128.39
11	HA	501	GTP	C5-C4-N3	-5.11	120.26	128.39
11	CE	501	GTP	C5-C4-N3	-5.11	120.26	128.39
11	JA	501	GTP	C5-C4-N3	-5.11	120.26	128.39
11	DE	501	GTP	C5-C4-N3	-5.10	120.27	128.39
11	LC	501	GTP	C5-C4-N3	-5.10	120.27	128.39
11	AA	501	GTP	C5-C4-N3	-5.10	120.28	128.39
11	KC	501	GTP	C5-C4-N3	-5.09	120.29	128.39
11	GA	501	GTP	C5-C4-N3	-5.09	120.29	128.39
11	HE	501	GTP	C5-C4-N3	-5.09	120.29	128.39
11	EC	501	GTP	C5-C4-N3	-5.08	120.30	128.39
11	EA	501	GTP	C5-C4-N3	-5.08	120.30	128.39
11	MC	501	GTP	C5-C4-N3	-5.08	120.30	128.39
13	KD	501	GDP	C2-N3-C4	5.08	121.05	112.30
11	IC	501	GTP	C5-C4-N3	-5.08	120.30	128.39
11	DA	501	GTP	C5-C4-N3	-5.08	120.31	128.39
13	FD	502	GDP	C2-N3-C4	5.08	121.04	112.30
13	FF	501	GDP	C2-N3-C4	5.07	121.04	112.30
11	GC	501	GTP	C5-C4-N3	-5.07	120.32	128.39
11	AE	501	GTP	C5-C4-N3	-5.07	120.32	128.39
11	AC	501	GTP	C5-C4-N3	-5.07	120.32	128.39
11	JE	501	GTP	C5-C4-N3	-5.07	120.32	128.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	BE	501	GTP	C5-C4-N3	-5.07	120.32	128.39
13	CD	501	GDP	C2-N3-C4	5.07	121.03	112.30
11	GE	501	GTP	C5-C4-N3	-5.06	120.33	128.39
11	JC	501	GTP	C5-C4-N3	-5.06	120.33	128.39
11	KE	501	GTP	C5-C4-N3	-5.06	120.33	128.39
11	HC	501	GTP	C5-C4-N3	-5.06	120.34	128.39
13	HD	501	GDP	C2-N3-C4	5.05	121.00	112.30
13	JB	501	GDP	C2-N3-C4	5.05	121.00	112.30
13	EF	501	GDP	C2-N3-C4	5.05	121.00	112.30
13	MB	502	GDP	C2-N3-C4	5.05	121.00	112.30
13	GB	501	GDP	C2-N3-C4	5.05	120.99	112.30
13	ID	501	GDP	C2-N3-C4	5.05	120.99	112.30
13	AD	501	GDP	C2-N3-C4	5.04	120.99	112.30
13	FB	502	GDP	C2-N3-C4	5.04	120.98	112.30
13	BB	501	GDP	C2-N3-C4	5.04	120.98	112.30
11	IE	501	GTP	C5-C4-N3	-5.04	120.37	128.39
13	BD	501	GDP	C2-N3-C4	5.04	120.97	112.30
13	JD	501	GDP	C2-N3-C4	5.04	120.97	112.30
13	IF	501	GDP	C2-N3-C4	5.03	120.97	112.30
13	BF	501	GDP	C2-N3-C4	5.03	120.97	112.30
13	CB	501	GDP	C2-N3-C4	5.03	120.97	112.30
13	GD	501	GDP	C2-N3-C4	5.03	120.97	112.30
13	AB	501	GDP	C2-N3-C4	5.03	120.97	112.30
13	DD	501	GDP	C2-N3-C4	5.03	120.97	112.30
13	KF	501	GDP	C2-N3-C4	5.02	120.95	112.30
13	MD	502	GDP	C2-N3-C4	5.02	120.95	112.30
13	AF	501	GDP	C2-N3-C4	5.02	120.95	112.30
13	GF	501	GDP	C2-N3-C4	5.02	120.95	112.30
13	HB	501	GDP	C2-N3-C4	5.02	120.95	112.30
13	DB	501	GDP	C2-N3-C4	5.02	120.95	112.30
13	ED	502	GDP	C2-N3-C4	5.02	120.95	112.30
13	MF	502	GDP	C2-N3-C4	5.02	120.95	112.30
13	LB	501	GDP	C2-N3-C4	5.02	120.94	112.30
13	LD	501	GDP	C2-N3-C4	5.02	120.94	112.30
13	CF	501	GDP	C2-N3-C4	5.01	120.94	112.30
13	HF	501	GDP	C2-N3-C4	5.01	120.93	112.30
13	IB	501	GDP	C2-N3-C4	5.01	120.93	112.30
13	DF	501	GDP	C2-N3-C4	5.01	120.93	112.30
13	JF	501	GDP	C2-N3-C4	5.01	120.92	112.30
13	KB	501	GDP	C2-N3-C4	5.01	120.92	112.30
13	LF	501	GDP	C2-N3-C4	5.00	120.92	112.30
13	EB	501	GDP	C2-N3-C4	5.00	120.91	112.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	FE	501	GTP	C2-N3-C4	4.78	120.53	112.30
11	ME	501	GTP	C2-N3-C4	4.74	120.46	112.30
11	JA	501	GTP	C2-N3-C4	4.74	120.46	112.30
11	BA	501	GTP	C2-N3-C4	4.74	120.46	112.30
11	CC	501	GTP	C2-N3-C4	4.73	120.45	112.30
11	FC	501	GTP	C2-N3-C4	4.73	120.45	112.30
11	FA	501	GTP	C2-N3-C4	4.73	120.45	112.30
11	EC	501	GTP	C2-N3-C4	4.73	120.44	112.30
11	LC	501	GTP	C2-N3-C4	4.72	120.43	112.30
11	EE	501	GTP	C2-N3-C4	4.72	120.43	112.30
11	BC	501	GTP	C2-N3-C4	4.72	120.42	112.30
11	BE	501	GTP	C2-N3-C4	4.71	120.41	112.30
11	CE	501	GTP	C2-N3-C4	4.71	120.41	112.30
11	IC	501	GTP	C2-N3-C4	4.71	120.41	112.30
11	KE	501	GTP	C2-N3-C4	4.71	120.41	112.30
11	LA	501	GTP	C2-N3-C4	4.71	120.41	112.30
11	GE	501	GTP	C2-N3-C4	4.71	120.40	112.30
11	KA	501	GTP	C2-N3-C4	4.70	120.39	112.30
11	AE	501	GTP	C2-N3-C4	4.70	120.39	112.30
11	MA	501	GTP	C2-N3-C4	4.70	120.39	112.30
11	MC	501	GTP	C2-N3-C4	4.70	120.39	112.30
11	HE	501	GTP	C2-N3-C4	4.69	120.39	112.30
11	IA	501	GTP	C2-N3-C4	4.69	120.39	112.30
11	EA	501	GTP	C2-N3-C4	4.69	120.38	112.30
11	CA	501	GTP	C2-N3-C4	4.69	120.38	112.30
11	LE	501	GTP	C2-N3-C4	4.69	120.38	112.30
11	JE	501	GTP	C2-N3-C4	4.69	120.38	112.30
11	GC	501	GTP	C2-N3-C4	4.69	120.38	112.30
11	AA	501	GTP	C2-N3-C4	4.69	120.38	112.30
11	AC	501	GTP	C2-N3-C4	4.69	120.38	112.30
11	IE	501	GTP	C2-N3-C4	4.69	120.37	112.30
11	DC	501	GTP	C2-N3-C4	4.69	120.37	112.30
11	HA	501	GTP	C2-N3-C4	4.68	120.37	112.30
11	DA	501	GTP	C2-N3-C4	4.68	120.36	112.30
11	KC	501	GTP	C2-N3-C4	4.68	120.35	112.30
11	DE	501	GTP	C2-N3-C4	4.67	120.35	112.30
11	HC	501	GTP	C2-N3-C4	4.66	120.33	112.30
11	GA	501	GTP	C2-N3-C4	4.66	120.33	112.30
11	JC	501	GTP	C2-N3-C4	4.66	120.32	112.30
13	CD	501	GDP	N9-C4-N3	4.62	135.19	125.95
13	DD	501	GDP	N9-C4-N3	4.60	135.14	125.95
13	MB	502	GDP	N9-C4-N3	4.59	135.14	125.95

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	DB	501	GDP	N9-C4-N3	4.59	135.14	125.95
13	FF	501	GDP	N9-C4-N3	4.59	135.14	125.95
13	FD	502	GDP	N9-C4-N3	4.59	135.13	125.95
13	BD	501	GDP	N9-C4-N3	4.59	135.13	125.95
13	CF	501	GDP	N9-C4-N3	4.58	135.12	125.95
13	KD	501	GDP	N9-C4-N3	4.58	135.11	125.95
13	DF	501	GDP	N9-C4-N3	4.58	135.11	125.95
13	BF	501	GDP	N9-C4-N3	4.58	135.11	125.95
13	AD	501	GDP	N9-C4-N3	4.58	135.10	125.95
13	HB	501	GDP	N9-C4-N3	4.57	135.10	125.95
13	LF	501	GDP	N9-C4-N3	4.57	135.10	125.95
13	CB	501	GDP	N9-C4-N3	4.57	135.10	125.95
13	JB	501	GDP	N9-C4-N3	4.57	135.09	125.95
13	GB	501	GDP	N9-C4-N3	4.57	135.09	125.95
13	HD	501	GDP	N9-C4-N3	4.57	135.09	125.95
13	JD	501	GDP	N9-C4-N3	4.57	135.09	125.95
13	LB	501	GDP	N9-C4-N3	4.57	135.09	125.95
13	MD	502	GDP	N9-C4-N3	4.57	135.09	125.95
13	AB	501	GDP	N9-C4-N3	4.57	135.08	125.95
13	EF	501	GDP	N9-C4-N3	4.56	135.08	125.95
13	LD	501	GDP	N9-C4-N3	4.56	135.08	125.95
13	BB	501	GDP	N9-C4-N3	4.56	135.08	125.95
13	MF	502	GDP	N9-C4-N3	4.56	135.08	125.95
13	ID	501	GDP	N9-C4-N3	4.56	135.07	125.95
13	ED	502	GDP	N9-C4-N3	4.56	135.07	125.95
13	EB	501	GDP	N9-C4-N3	4.56	135.06	125.95
13	IF	501	GDP	N9-C4-N3	4.55	135.06	125.95
13	GF	501	GDP	N9-C4-N3	4.55	135.05	125.95
13	FB	502	GDP	N9-C4-N3	4.55	135.05	125.95
13	IB	501	GDP	N9-C4-N3	4.55	135.04	125.95
13	GD	501	GDP	N9-C4-N3	4.54	135.04	125.95
13	KF	501	GDP	N9-C4-N3	4.54	135.03	125.95
13	AF	501	GDP	N9-C4-N3	4.54	135.03	125.95
13	JF	501	GDP	N9-C4-N3	4.54	135.03	125.95
13	KB	501	GDP	N9-C4-N3	4.54	135.03	125.95
13	HF	501	GDP	N9-C4-N3	4.53	135.01	125.95
11	FE	501	GTP	N9-C4-N3	3.28	132.52	125.95
11	BA	501	GTP	N9-C4-N3	3.27	132.49	125.95
11	FA	501	GTP	N9-C4-N3	3.27	132.48	125.95
11	LE	501	GTP	N9-C4-N3	3.25	132.46	125.95
11	EE	501	GTP	N9-C4-N3	3.25	132.46	125.95
11	EC	501	GTP	N9-C4-N3	3.25	132.45	125.95

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	JA	501	GTP	N9-C4-N3	3.25	132.45	125.95
11	CC	501	GTP	N9-C4-N3	3.25	132.44	125.95
11	ME	501	GTP	N9-C4-N3	3.24	132.44	125.95
11	LA	501	GTP	N9-C4-N3	3.24	132.43	125.95
11	BC	501	GTP	N9-C4-N3	3.24	132.43	125.95
11	IC	501	GTP	N9-C4-N3	3.24	132.43	125.95
11	LC	501	GTP	N9-C4-N3	3.24	132.43	125.95
11	GC	501	GTP	N9-C4-N3	3.24	132.42	125.95
11	FC	501	GTP	N9-C4-N3	3.23	132.42	125.95
11	KA	501	GTP	N9-C4-N3	3.23	132.42	125.95
11	AC	501	GTP	N9-C4-N3	3.23	132.40	125.95
11	KC	501	GTP	N9-C4-N3	3.23	132.40	125.95
11	MA	501	GTP	N9-C4-N3	3.22	132.40	125.95
11	HC	501	GTP	N9-C4-N3	3.22	132.40	125.95
11	DE	501	GTP	N9-C4-N3	3.22	132.40	125.95
11	BE	501	GTP	N9-C4-N3	3.22	132.40	125.95
11	AA	501	GTP	N9-C4-N3	3.22	132.40	125.95
11	IA	501	GTP	N9-C4-N3	3.22	132.39	125.95
11	DC	501	GTP	N9-C4-N3	3.22	132.38	125.95
11	EA	501	GTP	N9-C4-N3	3.22	132.38	125.95
11	JC	501	GTP	N9-C4-N3	3.21	132.38	125.95
11	MC	501	GTP	N9-C4-N3	3.21	132.38	125.95
13	EF	501	GDP	C6-C5-N7	3.21	136.14	130.29
11	GE	501	GTP	N9-C4-N3	3.21	132.37	125.95
11	CA	501	GTP	N9-C4-N3	3.20	132.36	125.95
11	GA	501	GTP	N9-C4-N3	3.20	132.36	125.95
11	DA	501	GTP	N9-C4-N3	3.20	132.36	125.95
11	JE	501	GTP	N9-C4-N3	3.20	132.35	125.95
11	HA	501	GTP	N9-C4-N3	3.20	132.34	125.95
11	AE	501	GTP	N9-C4-N3	3.19	132.34	125.95
11	KE	501	GTP	N9-C4-N3	3.19	132.34	125.95
11	HE	501	GTP	N9-C4-N3	3.19	132.33	125.95
11	IE	501	GTP	N9-C4-N3	3.19	132.33	125.95
11	CE	501	GTP	N9-C4-N3	3.19	132.33	125.95
13	JB	501	GDP	C6-C5-N7	3.18	136.07	130.29
13	DF	501	GDP	C6-C5-N7	3.17	136.07	130.29
13	ED	502	GDP	C6-C5-N7	3.17	136.06	130.29
13	GB	501	GDP	C6-C5-N7	3.17	136.06	130.29
13	BD	501	GDP	C6-C5-N7	3.17	136.06	130.29
13	FB	502	GDP	C6-C5-N7	3.17	136.06	130.29
13	BB	501	GDP	C6-C5-N7	3.16	136.05	130.29
13	BF	501	GDP	C6-C5-N7	3.16	136.05	130.29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	EB	501	GDP	C6-C5-N7	3.16	136.04	130.29
13	HB	501	GDP	C6-C5-N7	3.16	136.04	130.29
13	AB	501	GDP	C6-C5-N7	3.16	136.03	130.29
13	DB	501	GDP	C6-C5-N7	3.16	136.03	130.29
13	IB	501	GDP	C6-C5-N7	3.16	136.03	130.29
13	KB	501	GDP	C6-C5-N7	3.15	136.03	130.29
13	FF	501	GDP	C6-C5-N7	3.15	136.03	130.29
13	LF	501	GDP	C6-C5-N7	3.15	136.02	130.29
13	LB	501	GDP	C6-C5-N7	3.14	136.01	130.29
13	KD	501	GDP	C6-C5-N7	3.14	136.00	130.29
13	CD	501	GDP	C6-C5-N7	3.14	136.00	130.29
13	FD	502	GDP	C6-C5-N7	3.13	135.99	130.29
13	AD	501	GDP	C6-C5-N7	3.13	135.99	130.29
13	HD	501	GDP	C6-C5-N7	3.13	135.99	130.29
13	LD	501	GDP	C6-C5-N7	3.13	135.99	130.29
13	HF	501	GDP	C6-C5-N7	3.13	135.98	130.29
13	KF	501	GDP	C6-C5-N7	3.13	135.98	130.29
13	JD	501	GDP	C6-C5-N7	3.12	135.97	130.29
13	DD	501	GDP	C6-C5-N7	3.12	135.97	130.29
13	ID	501	GDP	C6-C5-N7	3.12	135.97	130.29
13	MB	502	GDP	C6-C5-N7	3.12	135.97	130.29
13	AF	501	GDP	C6-C5-N7	3.12	135.96	130.29
13	MF	502	GDP	C6-C5-N7	3.12	135.96	130.29
13	MD	502	GDP	C6-C5-N7	3.12	135.96	130.29
13	JF	501	GDP	C6-C5-N7	3.11	135.96	130.29
13	GF	501	GDP	C6-C5-N7	3.11	135.96	130.29
13	GD	501	GDP	C6-C5-N7	3.11	135.95	130.29
13	CF	501	GDP	C6-C5-N7	3.11	135.94	130.29
13	IF	501	GDP	C6-C5-N7	3.10	135.94	130.29
13	CB	501	GDP	C6-C5-N7	3.10	135.93	130.29
11	DE	501	GTP	C2-N1-C6	-3.09	119.50	125.11
11	GC	501	GTP	C2-N1-C6	-3.08	119.52	125.11
11	CE	501	GTP	C2-N1-C6	-3.08	119.53	125.11
11	KA	501	GTP	C2-N1-C6	-3.07	119.55	125.11
11	LC	501	GTP	C2-N1-C6	-3.07	119.55	125.11
11	CC	501	GTP	C2-N1-C6	-3.06	119.56	125.11
11	LE	501	GTP	C2-N1-C6	-3.06	119.56	125.11
11	DC	501	GTP	C2-N1-C6	-3.06	119.57	125.11
11	MC	501	GTP	C2-N1-C6	-3.05	119.57	125.11
11	MA	501	GTP	C2-N1-C6	-3.05	119.58	125.11
11	HC	501	GTP	C2-N1-C6	-3.05	119.58	125.11
11	KC	501	GTP	C2-N1-C6	-3.05	119.58	125.11

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	LA	501	GTP	C2-N1-C6	-3.05	119.58	125.11
11	IC	501	GTP	C2-N1-C6	-3.04	119.59	125.11
11	AA	501	GTP	C2-N1-C6	-3.04	119.59	125.11
11	GA	501	GTP	C2-N1-C6	-3.04	119.59	125.11
11	AC	501	GTP	C2-N1-C6	-3.04	119.60	125.11
11	DA	501	GTP	C2-N1-C6	-3.04	119.60	125.11
11	IA	501	GTP	C2-N1-C6	-3.04	119.60	125.11
11	BA	501	GTP	C2-N1-C6	-3.04	119.61	125.11
11	JC	501	GTP	C2-N1-C6	-3.03	119.61	125.11
11	EE	501	GTP	C2-N1-C6	-3.03	119.61	125.11
11	CA	501	GTP	C2-N1-C6	-3.03	119.62	125.11
11	JA	501	GTP	C2-N1-C6	-3.02	119.64	125.11
11	HA	501	GTP	C2-N1-C6	-3.02	119.64	125.11
11	FE	501	GTP	C2-N1-C6	-3.01	119.64	125.11
11	EA	501	GTP	C2-N1-C6	-3.01	119.66	125.11
11	FC	501	GTP	C2-N1-C6	-3.01	119.66	125.11
11	ME	501	GTP	C2-N1-C6	-3.00	119.66	125.11
11	FA	501	GTP	C2-N1-C6	-3.00	119.67	125.11
11	BC	501	GTP	C2-N1-C6	-2.99	119.68	125.11
11	KE	501	GTP	C2-N1-C6	-2.99	119.69	125.11
11	EC	501	GTP	C2-N1-C6	-2.99	119.69	125.11
11	AE	501	GTP	C2-N1-C6	-2.99	119.69	125.11
11	IE	501	GTP	C2-N1-C6	-2.99	119.69	125.11
11	JE	501	GTP	C2-N1-C6	-2.98	119.70	125.11
11	BE	501	GTP	C2-N1-C6	-2.98	119.70	125.11
11	GE	501	GTP	C2-N1-C6	-2.97	119.72	125.11
11	HE	501	GTP	C2-N1-C6	-2.97	119.73	125.11
11	GC	501	GTP	N9-C8-N7	-2.62	108.55	113.40
11	CE	501	GTP	C5-C6-N1	2.62	119.91	113.25
11	CC	501	GTP	C5-C6-N1	2.62	119.91	113.25
11	BA	501	GTP	C5-C6-N1	2.61	119.91	113.25
11	MC	501	GTP	C5-C6-N1	2.61	119.91	113.25
11	BE	501	GTP	N9-C8-N7	-2.61	108.56	113.40
11	GA	501	GTP	C5-C6-N1	2.61	119.90	113.25
11	JA	501	GTP	C5-C6-N1	2.61	119.89	113.25
11	KA	501	GTP	C5-C6-N1	2.61	119.89	113.25
11	MA	501	GTP	C5-C6-N1	2.60	119.88	113.25
11	GC	501	GTP	C5-C6-N1	2.60	119.87	113.25
11	DE	501	GTP	C5-C6-N1	2.60	119.87	113.25
11	FC	501	GTP	N9-C8-N7	-2.60	108.58	113.40
11	AA	501	GTP	C5-C6-N1	2.60	119.86	113.25
11	EE	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(°)
11	MA	501	GTP	N9-C8-N7	-2.60	108.58	113.40
11	AC	501	GTP	N9-C8-N7	-2.60	108.59	113.40
11	BC	501	GTP	C5-C6-N1	2.60	119.86	113.25
11	GE	501	GTP	N9-C8-N7	-2.60	108.59	113.40
11	KC	501	GTP	C5-C6-N1	2.59	119.86	113.25
11	CA	501	GTP	C5-C6-N1	2.59	119.86	113.25
11	BE	501	GTP	C5-C6-N1	2.59	119.85	113.25
11	HC	501	GTP	C5-C6-N1	2.59	119.85	113.25
11	LC	501	GTP	C5-C6-N1	2.59	119.85	113.25
11	JE	501	GTP	N9-C8-N7	-2.59	108.59	113.40
11	JC	501	GTP	C5-C6-N1	2.59	119.85	113.25
11	HC	501	GTP	N9-C8-N7	-2.59	108.60	113.40
11	EC	501	GTP	C5-C6-N1	2.59	119.85	113.25
11	LA	501	GTP	C5-C6-N1	2.59	119.84	113.25
11	LE	501	GTP	C5-C6-N1	2.59	119.84	113.25
11	IC	501	GTP	N9-C8-N7	-2.59	108.60	113.40
11	DC	501	GTP	C5-C6-N1	2.59	119.84	113.25
11	IA	501	GTP	N9-C8-N7	-2.59	108.61	113.40
11	AC	501	GTP	C5-C6-N1	2.59	119.83	113.25
11	HA	501	GTP	C5-C6-N1	2.59	119.83	113.25
11	FA	501	GTP	C5-C6-N1	2.58	119.83	113.25
11	ME	501	GTP	N9-C8-N7	-2.58	108.61	113.40
11	IA	501	GTP	C5-C6-N1	2.58	119.83	113.25
11	LA	501	GTP	N9-C8-N7	-2.58	108.61	113.40
11	ME	501	GTP	C5-C6-N1	2.58	119.83	113.25
11	FC	501	GTP	C5-C6-N1	2.58	119.83	113.25
11	BA	501	GTP	N9-C8-N7	-2.58	108.61	113.40
11	DA	501	GTP	C5-C6-N1	2.58	119.83	113.25
11	KC	501	GTP	N9-C8-N7	-2.58	108.61	113.40
11	KE	501	GTP	C5-C6-N1	2.58	119.82	113.25
11	JC	501	GTP	N9-C8-N7	-2.58	108.62	113.40
11	HE	501	GTP	C5-C6-N1	2.58	119.82	113.25
11	IC	501	GTP	C5-C6-N1	2.58	119.82	113.25
11	KE	501	GTP	N9-C8-N7	-2.58	108.62	113.40
11	AE	501	GTP	N9-C8-N7	-2.58	108.62	113.40
11	JA	501	GTP	N9-C8-N7	-2.58	108.62	113.40
11	LC	501	GTP	N9-C8-N7	-2.58	108.62	113.40
11	AE	501	GTP	C5-C6-N1	2.58	119.81	113.25
11	EA	501	GTP	C5-C6-N1	2.57	119.81	113.25
11	IE	501	GTP	C5-C6-N1	2.57	119.81	113.25
11	DA	501	GTP	N9-C8-N7	-2.57	108.63	113.40
11	FE	501	GTP	C5-C6-N1	2.57	119.80	113.25

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	FA	501	GTP	N9-C8-N7	-2.57	108.63	113.40
11	MC	501	GTP	N9-C8-N7	-2.57	108.64	113.40
11	AA	501	GTP	N9-C8-N7	-2.57	108.64	113.40
11	HE	501	GTP	N9-C8-N7	-2.57	108.64	113.40
11	LE	501	GTP	N9-C8-N7	-2.57	108.64	113.40
11	JE	501	GTP	C5-C6-N1	2.56	119.78	113.25
11	FE	501	GTP	N9-C8-N7	-2.56	108.65	113.40
11	KA	501	GTP	N9-C8-N7	-2.56	108.65	113.40
11	CC	501	GTP	N9-C8-N7	-2.56	108.65	113.40
11	DC	501	GTP	N9-C8-N7	-2.56	108.65	113.40
11	EA	501	GTP	N9-C8-N7	-2.56	108.66	113.40
11	EE	501	GTP	N9-C8-N7	-2.56	108.66	113.40
11	GE	501	GTP	C5-C6-N1	2.56	119.76	113.25
11	DE	501	GTP	N9-C8-N7	-2.55	108.67	113.40
11	HA	501	GTP	N9-C8-N7	-2.55	108.67	113.40
11	CA	501	GTP	N9-C8-N7	-2.55	108.67	113.40
13	EF	501	GDP	C4-C5-N7	-2.55	106.63	110.67
11	BC	501	GTP	N9-C8-N7	-2.55	108.67	113.40
11	GA	501	GTP	N9-C8-N7	-2.55	108.68	113.40
11	IE	501	GTP	N9-C8-N7	-2.55	108.68	113.40
11	EC	501	GTP	N9-C8-N7	-2.54	108.69	113.40
11	CE	501	GTP	N9-C8-N7	-2.54	108.70	113.40
13	GB	501	GDP	C4-C5-N7	-2.51	106.69	110.67
13	DF	501	GDP	C4-C5-N7	-2.51	106.70	110.67
13	ED	502	GDP	C4-C5-N7	-2.50	106.70	110.67
13	HB	501	GDP	C4-C5-N7	-2.50	106.71	110.67
13	HD	501	GDP	C4-C5-N7	-2.50	106.71	110.67
13	JB	501	GDP	C4-C5-N7	-2.50	106.71	110.67
13	KB	501	GDP	C4-C5-N7	-2.49	106.72	110.67
13	KD	501	GDP	C4-C5-N7	-2.48	106.74	110.67
13	ID	501	GDP	C4-C5-N7	-2.48	106.74	110.67
13	AB	501	GDP	C4-C5-N7	-2.48	106.74	110.67
13	HF	501	GDP	C4-C5-N7	-2.48	106.74	110.67
13	AD	501	GDP	C4-C5-N7	-2.48	106.75	110.67
13	FF	501	GDP	C4-C5-N7	-2.47	106.75	110.67
13	BD	501	GDP	C4-C5-N7	-2.47	106.75	110.67
13	CD	501	GDP	C4-C5-N7	-2.47	106.75	110.67
13	IF	501	GDP	C4-C5-N7	-2.47	106.75	110.67
13	AF	501	GDP	C4-C5-N7	-2.47	106.75	110.67
13	BF	501	GDP	C4-C5-N7	-2.47	106.75	110.67
13	JD	501	GDP	C4-C5-N7	-2.47	106.76	110.67
13	JF	501	GDP	C4-C5-N7	-2.46	106.76	110.67

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	EB	501	GDP	C4-C5-N7	-2.46	106.77	110.67
13	GD	501	GDP	C4-C5-N7	-2.46	106.77	110.67
13	BB	501	GDP	C4-C5-N7	-2.46	106.77	110.67
11	LC	501	GTP	C8-N7-C5	2.46	108.64	104.26
13	LB	501	GDP	C4-C5-N7	-2.46	106.78	110.67
13	FB	502	GDP	C4-C5-N7	-2.45	106.78	110.67
13	IB	501	GDP	C4-C5-N7	-2.45	106.78	110.67
11	CE	501	GTP	C8-N7-C5	2.45	108.63	104.26
11	BE	501	GTP	C8-N7-C5	2.45	108.62	104.26
11	LE	501	GTP	C8-N7-C5	2.45	108.62	104.26
11	MA	501	GTP	C8-N7-C5	2.45	108.62	104.26
13	DB	501	GDP	C4-C5-N7	-2.45	106.79	110.67
11	BA	501	GTP	C8-N7-C5	2.45	108.62	104.26
13	KF	501	GDP	C4-C5-N7	-2.45	106.80	110.67
11	KC	501	GTP	C8-N7-C5	2.44	108.61	104.26
11	LA	501	GTP	C8-N7-C5	2.44	108.61	104.26
11	FC	501	GTP	C8-N7-C5	2.44	108.60	104.26
11	GC	501	GTP	C8-N7-C5	2.44	108.60	104.26
11	IA	501	GTP	C8-N7-C5	2.44	108.60	104.26
11	KE	501	GTP	C8-N7-C5	2.43	108.60	104.26
11	AC	501	GTP	C8-N7-C5	2.43	108.59	104.26
13	GF	501	GDP	C4-C5-N7	-2.43	106.81	110.67
13	GB	501	GDP	C3'-C2'-C1'	2.43	106.06	101.46
13	KB	501	GDP	C3'-C2'-C1'	2.43	106.06	101.46
11	IC	501	GTP	C8-N7-C5	2.43	108.59	104.26
11	EA	501	GTP	C8-N7-C5	2.43	108.59	104.26
11	MC	501	GTP	C8-N7-C5	2.43	108.59	104.26
13	FD	502	GDP	C4-C5-N7	-2.43	106.82	110.67
11	AE	501	GTP	C8-N7-C5	2.43	108.59	104.26
11	GE	501	GTP	C8-N7-C5	2.43	108.59	104.26
11	BA	501	GTP	O6-C6-C5	-2.43	120.12	126.53
13	DD	501	GDP	C4-C5-N7	-2.43	106.82	110.67
13	LF	501	GDP	C4-C5-N7	-2.43	106.83	110.67
13	CF	501	GDP	C4-C5-N7	-2.43	106.83	110.67
13	MF	502	GDP	C4-C5-N7	-2.43	106.83	110.67
11	DC	501	GTP	C8-N7-C5	2.43	108.58	104.26
13	MD	502	GDP	C4-C5-N7	-2.42	106.83	110.67
11	JC	501	GTP	C8-N7-C5	2.42	108.58	104.26
13	JB	501	GDP	C3'-C2'-C1'	2.42	106.05	101.46
11	BC	501	GTP	O6-C6-C5	-2.42	120.14	126.53
11	EE	501	GTP	C8-N7-C5	2.42	108.58	104.26
11	AA	501	GTP	C8-N7-C5	2.42	108.58	104.26

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	HE	501	GTP	C8-N7-C5	2.42	108.58	104.26
11	BC	501	GTP	C8-N7-C5	2.42	108.57	104.26
11	MC	501	GTP	O6-C6-C5	-2.42	120.14	126.53
11	CA	501	GTP	C8-N7-C5	2.42	108.57	104.26
11	ME	501	GTP	C8-N7-C5	2.42	108.57	104.26
13	CB	501	GDP	C3'-C2'-C1'	2.42	106.04	101.46
11	ME	501	GTP	O6-C6-C5	-2.42	120.14	126.53
11	HC	501	GTP	C8-N7-C5	2.42	108.57	104.26
13	AB	501	GDP	C3'-C2'-C1'	2.42	106.04	101.46
11	HA	501	GTP	C8-N7-C5	2.42	108.57	104.26
11	JA	501	GTP	C8-N7-C5	2.42	108.57	104.26
13	CB	501	GDP	C4-C5-N7	-2.42	106.84	110.67
11	CC	501	GTP	C8-N7-C5	2.42	108.56	104.26
13	MB	502	GDP	C4-C5-N7	-2.42	106.84	110.67
13	IB	501	GDP	C3'-C2'-C1'	2.42	106.03	101.46
13	MD	502	GDP	C3'-C2'-C1'	2.41	106.03	101.46
13	DF	501	GDP	C3'-C2'-C1'	2.41	106.03	101.46
13	HB	501	GDP	C3'-C2'-C1'	2.41	106.03	101.46
11	JE	501	GTP	C8-N7-C5	2.41	108.56	104.26
11	MA	501	GTP	O6-C6-C5	-2.41	120.16	126.53
11	DE	501	GTP	C8-N7-C5	2.41	108.56	104.26
11	GA	501	GTP	C8-N7-C5	2.41	108.56	104.26
11	JA	501	GTP	O6-C6-C5	-2.41	120.16	126.53
13	EB	501	GDP	C3'-C2'-C1'	2.41	106.03	101.46
11	EA	501	GTP	O6-C6-C5	-2.41	120.17	126.53
11	KA	501	GTP	C8-N7-C5	2.41	108.56	104.26
11	BE	501	GTP	O6-C6-C5	-2.41	120.17	126.53
13	LD	501	GDP	C4-C5-N7	-2.41	106.86	110.67
11	FE	501	GTP	O6-C6-C5	-2.41	120.18	126.53
11	FE	501	GTP	C8-N7-C5	2.41	108.55	104.26
11	CE	501	GTP	O6-C6-C5	-2.40	120.18	126.53
13	ED	502	GDP	C3'-C2'-C1'	2.40	106.01	101.46
11	KE	501	GTP	O6-C6-C5	-2.40	120.19	126.53
11	JC	501	GTP	O6-C6-C5	-2.40	120.19	126.53
11	FA	501	GTP	C8-N7-C5	2.40	108.54	104.26
11	FA	501	GTP	O6-C6-C5	-2.40	120.19	126.53
11	KC	501	GTP	O6-C6-C5	-2.40	120.19	126.53
13	LF	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
11	IC	501	GTP	O6-C6-C5	-2.40	120.20	126.53
13	BD	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
11	DA	501	GTP	C8-N7-C5	2.40	108.53	104.26
11	CC	501	GTP	O6-C6-C5	-2.40	120.20	126.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	FC	501	GTP	O6-C6-C5	-2.40	120.20	126.53
13	MB	502	GDP	C3'-C2'-C1'	2.40	106.00	101.46
13	MF	502	GDP	C3'-C2'-C1'	2.40	106.00	101.46
13	BF	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
11	EC	501	GTP	C8-N7-C5	2.40	108.53	104.26
11	IE	501	GTP	C8-N7-C5	2.40	108.53	104.26
11	GA	501	GTP	O6-C6-C5	-2.39	120.21	126.53
11	DA	501	GTP	O6-C6-C5	-2.39	120.21	126.53
11	CA	501	GTP	O6-C6-C5	-2.39	120.22	126.53
13	GD	501	GDP	C3'-C2'-C1'	2.39	105.99	101.46
13	JD	501	GDP	C3'-C2'-C1'	2.39	105.99	101.46
13	LB	501	GDP	C3'-C2'-C1'	2.39	105.99	101.46
11	AC	501	GTP	O6-C6-C5	-2.39	120.22	126.53
11	EC	501	GTP	O6-C6-C5	-2.39	120.22	126.53
13	CD	501	GDP	C3'-C2'-C1'	2.39	105.99	101.46
13	DB	501	GDP	C3'-C2'-C1'	2.39	105.99	101.46
11	IA	501	GTP	O6-C6-C5	-2.39	120.22	126.53
11	AA	501	GTP	O6-C6-C5	-2.39	120.22	126.53
11	HE	501	GTP	O6-C6-C5	-2.39	120.22	126.53
11	DE	501	GTP	O6-C6-C5	-2.39	120.23	126.53
11	EE	501	GTP	O6-C6-C5	-2.39	120.23	126.53
11	LC	501	GTP	O6-C6-C5	-2.39	120.23	126.53
11	IE	501	GTP	O6-C6-C5	-2.39	120.23	126.53
11	GC	501	GTP	O6-C6-C5	-2.39	120.23	126.53
11	DC	501	GTP	O6-C6-C5	-2.39	120.23	126.53
11	LE	501	GTP	O6-C6-C5	-2.39	120.24	126.53
11	AE	501	GTP	O6-C6-C5	-2.38	120.24	126.53
13	ID	501	GDP	C3'-C2'-C1'	2.38	105.97	101.46
11	HC	501	GTP	O6-C6-C5	-2.38	120.24	126.53
13	AD	501	GDP	C3'-C2'-C1'	2.38	105.97	101.46
13	KD	501	GDP	C3'-C2'-C1'	2.38	105.97	101.46
13	DD	501	GDP	C3'-C2'-C1'	2.38	105.97	101.46
13	FF	501	GDP	C3'-C2'-C1'	2.38	105.97	101.46
11	JE	501	GTP	O6-C6-C5	-2.38	120.25	126.53
13	CF	501	GDP	C3'-C2'-C1'	2.38	105.97	101.46
11	LA	501	GTP	O6-C6-C5	-2.38	120.25	126.53
11	GE	501	GTP	O6-C6-C5	-2.38	120.25	126.53
11	HA	501	GTP	O6-C6-C5	-2.38	120.26	126.53
13	EF	501	GDP	C3'-C2'-C1'	2.38	105.96	101.46
11	KA	501	GTP	O6-C6-C5	-2.37	120.26	126.53
13	BB	501	GDP	C3'-C2'-C1'	2.37	105.94	101.46
13	HD	501	GDP	C3'-C2'-C1'	2.37	105.94	101.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	FB	502	GDP	C3'-C2'-C1'	2.37	105.94	101.46
13	AF	501	GDP	C3'-C2'-C1'	2.37	105.94	101.46
13	JF	501	GDP	C3'-C2'-C1'	2.36	105.94	101.46
13	HF	501	GDP	C3'-C2'-C1'	2.36	105.93	101.46
13	KF	501	GDP	C3'-C2'-C1'	2.36	105.93	101.46
13	IF	501	GDP	C3'-C2'-C1'	2.36	105.92	101.46
13	FD	502	GDP	C3'-C2'-C1'	2.36	105.92	101.46
13	GF	501	GDP	C3'-C2'-C1'	2.35	105.92	101.46
13	LD	501	GDP	C3'-C2'-C1'	2.34	105.88	101.46
13	BB	501	GDP	O6-C6-C5	-2.11	120.95	126.53
13	FB	502	GDP	O6-C6-C5	-2.11	120.96	126.53
13	MD	502	GDP	O6-C6-C5	-2.11	120.97	126.53
13	EF	501	GDP	O6-C6-C5	-2.11	120.98	126.53
13	FF	501	GDP	O6-C6-C5	-2.10	120.98	126.53
13	KF	501	GDP	O6-C6-C5	-2.10	120.99	126.53
13	GB	501	GDP	O6-C6-C5	-2.10	120.99	126.53
13	BD	501	GDP	O6-C6-C5	-2.10	120.99	126.53
13	MB	502	GDP	O6-C6-C5	-2.10	120.99	126.53
13	LD	501	GDP	O6-C6-C5	-2.10	121.00	126.53
13	JB	501	GDP	O6-C6-C5	-2.10	121.00	126.53
13	MF	502	GDP	O6-C6-C5	-2.09	121.00	126.53
13	DB	501	GDP	O6-C6-C5	-2.09	121.00	126.53
13	IB	501	GDP	O6-C6-C5	-2.09	121.00	126.53
11	EC	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
13	EB	501	GDP	O6-C6-C5	-2.09	121.01	126.53
13	GF	501	GDP	O6-C6-C5	-2.09	121.01	126.53
13	DF	501	GDP	O6-C6-C5	-2.09	121.01	126.53
13	FD	502	GDP	O6-C6-C5	-2.09	121.01	126.53
13	AB	501	GDP	O6-C6-C5	-2.09	121.02	126.53
13	ID	501	GDP	O6-C6-C5	-2.09	121.02	126.53
13	LB	501	GDP	O6-C6-C5	-2.09	121.02	126.53
13	AD	501	GDP	O6-C6-C5	-2.09	121.03	126.53
13	CD	501	GDP	O6-C6-C5	-2.09	121.03	126.53
13	AF	501	GDP	O6-C6-C5	-2.08	121.03	126.53
13	BF	501	GDP	O6-C6-C5	-2.08	121.03	126.53
13	JD	501	GDP	O6-C6-C5	-2.08	121.03	126.53
13	DD	501	GDP	O6-C6-C5	-2.08	121.04	126.53
13	LF	501	GDP	O6-C6-C5	-2.08	121.04	126.53
13	HF	501	GDP	O6-C6-C5	-2.08	121.04	126.53
13	JF	501	GDP	O6-C6-C5	-2.08	121.04	126.53
13	KB	501	GDP	O6-C6-C5	-2.08	121.04	126.53
13	GD	501	GDP	O6-C6-C5	-2.08	121.04	126.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	IF	501	GDP	O6-C6-C5	-2.08	121.04	126.53
13	KD	501	GDP	O6-C6-C5	-2.08	121.04	126.53
13	ED	502	GDP	O6-C6-C5	-2.08	121.05	126.53
11	ME	501	GTP	C3'-C2'-C1'	2.08	105.39	101.46
13	HB	501	GDP	O6-C6-C5	-2.07	121.06	126.53
11	IC	501	GTP	C3'-C2'-C1'	2.07	105.39	101.46
13	HD	501	GDP	O6-C6-C5	-2.07	121.07	126.53
11	MA	501	GTP	C3'-C2'-C1'	2.07	105.38	101.46
11	GC	501	GTP	C3'-C2'-C1'	2.07	105.37	101.46
11	AC	501	GTP	C3'-C2'-C1'	2.07	105.37	101.46
11	KC	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
11	BA	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
11	CC	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
11	MC	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
11	FA	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
11	HE	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
11	JA	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
11	DA	501	GTP	C3'-C2'-C1'	2.06	105.35	101.46
11	KE	501	GTP	C3'-C2'-C1'	2.06	105.35	101.46
11	LA	501	GTP	C3'-C2'-C1'	2.06	105.35	101.46
13	CF	501	GDP	O6-C6-C5	-2.06	121.11	126.53
11	EA	501	GTP	C3'-C2'-C1'	2.06	105.35	101.46
11	FE	501	GTP	C3'-C2'-C1'	2.06	105.35	101.46
11	BE	501	GTP	C3'-C2'-C1'	2.05	105.35	101.46
11	DC	501	GTP	C3'-C2'-C1'	2.05	105.35	101.46
11	BC	501	GTP	C3'-C2'-C1'	2.05	105.35	101.46
11	IA	501	GTP	C3'-C2'-C1'	2.05	105.35	101.46
11	JC	501	GTP	C3'-C2'-C1'	2.05	105.35	101.46
13	CB	501	GDP	O6-C6-C5	-2.05	121.11	126.53
11	HC	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
11	IE	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
11	AE	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
11	CE	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
11	AA	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
11	LE	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
11	CA	501	GTP	C3'-C2'-C1'	2.05	105.33	101.46
11	EE	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
11	LC	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
11	JE	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
11	KA	501	GTP	C3'-C2'-C1'	2.04	105.31	101.46
11	HA	501	GTP	C3'-C2'-C1'	2.03	105.31	101.46
11	DE	501	GTP	C3'-C2'-C1'	2.03	105.31	101.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
11	GA	501	GTP	C3'-C2'-C1'	2.03	105.31	101.46
11	GE	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
11	FC	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46

There are no chirality outliers.

All (327) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
11	AA	501	GTP	C5'-O5'-PA-O3A
11	AA	501	GTP	C5'-O5'-PA-O1A
11	AA	501	GTP	C5'-O5'-PA-O2A
11	AC	501	GTP	C5'-O5'-PA-O3A
11	AC	501	GTP	C5'-O5'-PA-O1A
11	AC	501	GTP	C5'-O5'-PA-O2A
11	AE	501	GTP	C5'-O5'-PA-O3A
11	AE	501	GTP	C5'-O5'-PA-O1A
11	AE	501	GTP	C5'-O5'-PA-O2A
11	BA	501	GTP	C5'-O5'-PA-O3A
11	BA	501	GTP	C5'-O5'-PA-O1A
11	BA	501	GTP	C5'-O5'-PA-O2A
11	BC	501	GTP	C5'-O5'-PA-O3A
11	BC	501	GTP	C5'-O5'-PA-O1A
11	BC	501	GTP	C5'-O5'-PA-O2A
11	BE	501	GTP	C5'-O5'-PA-O3A
11	BE	501	GTP	C5'-O5'-PA-O1A
11	BE	501	GTP	C5'-O5'-PA-O2A
11	CA	501	GTP	C5'-O5'-PA-O3A
11	CA	501	GTP	C5'-O5'-PA-O1A
11	CA	501	GTP	C5'-O5'-PA-O2A
11	CC	501	GTP	C5'-O5'-PA-O3A
11	CC	501	GTP	C5'-O5'-PA-O1A
11	CC	501	GTP	C5'-O5'-PA-O2A
11	CE	501	GTP	C5'-O5'-PA-O3A
11	CE	501	GTP	C5'-O5'-PA-O1A
11	CE	501	GTP	C5'-O5'-PA-O2A
11	DA	501	GTP	C5'-O5'-PA-O3A
11	DA	501	GTP	C5'-O5'-PA-O1A
11	DA	501	GTP	C5'-O5'-PA-O2A
11	DC	501	GTP	C5'-O5'-PA-O3A
11	DC	501	GTP	C5'-O5'-PA-O1A
11	DC	501	GTP	C5'-O5'-PA-O2A
11	DE	501	GTP	C5'-O5'-PA-O3A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
11	DE	501	GTP	C5'-O5'-PA-O1A
11	DE	501	GTP	C5'-O5'-PA-O2A
11	EA	501	GTP	C5'-O5'-PA-O3A
11	EA	501	GTP	C5'-O5'-PA-O1A
11	EA	501	GTP	C5'-O5'-PA-O2A
11	EC	501	GTP	C5'-O5'-PA-O3A
11	EC	501	GTP	C5'-O5'-PA-O1A
11	EC	501	GTP	C5'-O5'-PA-O2A
11	EE	501	GTP	C5'-O5'-PA-O3A
11	EE	501	GTP	C5'-O5'-PA-O1A
11	EE	501	GTP	C5'-O5'-PA-O2A
11	FA	501	GTP	C5'-O5'-PA-O3A
11	FA	501	GTP	C5'-O5'-PA-O1A
11	FA	501	GTP	C5'-O5'-PA-O2A
11	FC	501	GTP	C5'-O5'-PA-O3A
11	FC	501	GTP	C5'-O5'-PA-O1A
11	FC	501	GTP	C5'-O5'-PA-O2A
11	FE	501	GTP	C5'-O5'-PA-O3A
11	FE	501	GTP	C5'-O5'-PA-O1A
11	FE	501	GTP	C5'-O5'-PA-O2A
11	GA	501	GTP	C5'-O5'-PA-O3A
11	GA	501	GTP	C5'-O5'-PA-O1A
11	GA	501	GTP	C5'-O5'-PA-O2A
11	GC	501	GTP	C5'-O5'-PA-O3A
11	GC	501	GTP	C5'-O5'-PA-O1A
11	GC	501	GTP	C5'-O5'-PA-O2A
11	GE	501	GTP	C5'-O5'-PA-O3A
11	GE	501	GTP	C5'-O5'-PA-O1A
11	GE	501	GTP	C5'-O5'-PA-O2A
11	HA	501	GTP	C5'-O5'-PA-O3A
11	HA	501	GTP	C5'-O5'-PA-O1A
11	HA	501	GTP	C5'-O5'-PA-O2A
11	HC	501	GTP	C5'-O5'-PA-O3A
11	HC	501	GTP	C5'-O5'-PA-O1A
11	HC	501	GTP	C5'-O5'-PA-O2A
11	HE	501	GTP	C5'-O5'-PA-O3A
11	HE	501	GTP	C5'-O5'-PA-O1A
11	HE	501	GTP	C5'-O5'-PA-O2A
11	IA	501	GTP	C5'-O5'-PA-O3A
11	IA	501	GTP	C5'-O5'-PA-O1A
11	IA	501	GTP	C5'-O5'-PA-O2A
11	IC	501	GTP	C5'-O5'-PA-O3A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
11	IC	501	GTP	C5'-O5'-PA-O1A
11	IC	501	GTP	C5'-O5'-PA-O2A
11	IE	501	GTP	C5'-O5'-PA-O3A
11	IE	501	GTP	C5'-O5'-PA-O1A
11	IE	501	GTP	C5'-O5'-PA-O2A
11	JA	501	GTP	C5'-O5'-PA-O3A
11	JA	501	GTP	C5'-O5'-PA-O1A
11	JA	501	GTP	C5'-O5'-PA-O2A
11	JC	501	GTP	C5'-O5'-PA-O3A
11	JC	501	GTP	C5'-O5'-PA-O1A
11	JC	501	GTP	C5'-O5'-PA-O2A
11	JE	501	GTP	C5'-O5'-PA-O3A
11	JE	501	GTP	C5'-O5'-PA-O1A
11	JE	501	GTP	C5'-O5'-PA-O2A
11	KA	501	GTP	C5'-O5'-PA-O3A
11	KA	501	GTP	C5'-O5'-PA-O1A
11	KA	501	GTP	C5'-O5'-PA-O2A
11	KC	501	GTP	C5'-O5'-PA-O3A
11	KC	501	GTP	C5'-O5'-PA-O1A
11	KC	501	GTP	C5'-O5'-PA-O2A
11	KE	501	GTP	C5'-O5'-PA-O3A
11	KE	501	GTP	C5'-O5'-PA-O1A
11	KE	501	GTP	C5'-O5'-PA-O2A
11	LA	501	GTP	C5'-O5'-PA-O3A
11	LA	501	GTP	C5'-O5'-PA-O1A
11	LA	501	GTP	C5'-O5'-PA-O2A
11	LC	501	GTP	C5'-O5'-PA-O3A
11	LC	501	GTP	C5'-O5'-PA-O1A
11	LC	501	GTP	C5'-O5'-PA-O2A
11	LE	501	GTP	C5'-O5'-PA-O3A
11	LE	501	GTP	C5'-O5'-PA-O1A
11	LE	501	GTP	C5'-O5'-PA-O2A
11	MA	501	GTP	C5'-O5'-PA-O3A
11	MA	501	GTP	C5'-O5'-PA-O1A
11	MA	501	GTP	C5'-O5'-PA-O2A
11	MC	501	GTP	C5'-O5'-PA-O3A
11	MC	501	GTP	C5'-O5'-PA-O1A
11	MC	501	GTP	C5'-O5'-PA-O2A
11	ME	501	GTP	C5'-O5'-PA-O3A
11	ME	501	GTP	C5'-O5'-PA-O1A
11	ME	501	GTP	C5'-O5'-PA-O2A
11	AE	501	GTP	O4'-C4'-C5'-O5'

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
11	CE	501	GTP	O4'-C4'-C5'-O5'
11	DA	501	GTP	O4'-C4'-C5'-O5'
11	DE	501	GTP	O4'-C4'-C5'-O5'
11	EA	501	GTP	O4'-C4'-C5'-O5'
11	EC	501	GTP	O4'-C4'-C5'-O5'
11	EE	501	GTP	O4'-C4'-C5'-O5'
11	FA	501	GTP	O4'-C4'-C5'-O5'
11	FC	501	GTP	O4'-C4'-C5'-O5'
11	FE	501	GTP	O4'-C4'-C5'-O5'
11	GC	501	GTP	O4'-C4'-C5'-O5'
11	GE	501	GTP	O4'-C4'-C5'-O5'
11	HE	501	GTP	O4'-C4'-C5'-O5'
11	IA	501	GTP	O4'-C4'-C5'-O5'
11	IE	501	GTP	O4'-C4'-C5'-O5'
11	JE	501	GTP	O4'-C4'-C5'-O5'
11	KE	501	GTP	O4'-C4'-C5'-O5'
11	LE	501	GTP	O4'-C4'-C5'-O5'
11	MA	501	GTP	O4'-C4'-C5'-O5'
11	MC	501	GTP	O4'-C4'-C5'-O5'
11	AA	501	GTP	O4'-C4'-C5'-O5'
11	AA	501	GTP	C3'-C4'-C5'-O5'
11	AC	501	GTP	O4'-C4'-C5'-O5'
11	AC	501	GTP	C3'-C4'-C5'-O5'
11	AE	501	GTP	C3'-C4'-C5'-O5'
11	BA	501	GTP	O4'-C4'-C5'-O5'
11	BA	501	GTP	C3'-C4'-C5'-O5'
11	BC	501	GTP	O4'-C4'-C5'-O5'
11	BC	501	GTP	C3'-C4'-C5'-O5'
11	BE	501	GTP	O4'-C4'-C5'-O5'
11	BE	501	GTP	C3'-C4'-C5'-O5'
11	CA	501	GTP	O4'-C4'-C5'-O5'
11	CA	501	GTP	C3'-C4'-C5'-O5'
11	CC	501	GTP	O4'-C4'-C5'-O5'
11	CC	501	GTP	C3'-C4'-C5'-O5'
11	CE	501	GTP	C3'-C4'-C5'-O5'
11	DA	501	GTP	C3'-C4'-C5'-O5'
11	DC	501	GTP	O4'-C4'-C5'-O5'
11	DC	501	GTP	C3'-C4'-C5'-O5'
11	DE	501	GTP	C3'-C4'-C5'-O5'
11	EA	501	GTP	C3'-C4'-C5'-O5'
11	EC	501	GTP	C3'-C4'-C5'-O5'
11	EE	501	GTP	C3'-C4'-C5'-O5'

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
11	FA	501	GTP	C3'-C4'-C5'-O5'
11	FC	501	GTP	C3'-C4'-C5'-O5'
11	FE	501	GTP	C3'-C4'-C5'-O5'
11	GA	501	GTP	O4'-C4'-C5'-O5'
11	GA	501	GTP	C3'-C4'-C5'-O5'
11	GC	501	GTP	C3'-C4'-C5'-O5'
11	GE	501	GTP	C3'-C4'-C5'-O5'
11	HA	501	GTP	O4'-C4'-C5'-O5'
11	HA	501	GTP	C3'-C4'-C5'-O5'
11	HC	501	GTP	O4'-C4'-C5'-O5'
11	HC	501	GTP	C3'-C4'-C5'-O5'
11	HE	501	GTP	C3'-C4'-C5'-O5'
11	IA	501	GTP	C3'-C4'-C5'-O5'
11	IC	501	GTP	O4'-C4'-C5'-O5'
11	IC	501	GTP	C3'-C4'-C5'-O5'
11	IE	501	GTP	C3'-C4'-C5'-O5'
11	JA	501	GTP	O4'-C4'-C5'-O5'
11	JA	501	GTP	C3'-C4'-C5'-O5'
11	JC	501	GTP	O4'-C4'-C5'-O5'
11	JC	501	GTP	C3'-C4'-C5'-O5'
11	JE	501	GTP	C3'-C4'-C5'-O5'
11	KA	501	GTP	O4'-C4'-C5'-O5'
11	KA	501	GTP	C3'-C4'-C5'-O5'
11	KC	501	GTP	O4'-C4'-C5'-O5'
11	KC	501	GTP	C3'-C4'-C5'-O5'
11	KE	501	GTP	C3'-C4'-C5'-O5'
11	LA	501	GTP	O4'-C4'-C5'-O5'
11	LA	501	GTP	C3'-C4'-C5'-O5'
11	LC	501	GTP	O4'-C4'-C5'-O5'
11	LC	501	GTP	C3'-C4'-C5'-O5'
11	LE	501	GTP	C3'-C4'-C5'-O5'
11	MA	501	GTP	C3'-C4'-C5'-O5'
11	MC	501	GTP	C3'-C4'-C5'-O5'
11	ME	501	GTP	O4'-C4'-C5'-O5'
11	ME	501	GTP	C3'-C4'-C5'-O5'
13	AF	501	GDP	C5'-O5'-PA-O1A
13	BF	501	GDP	C5'-O5'-PA-O1A
13	CB	501	GDP	C5'-O5'-PA-O1A
13	CD	501	GDP	C5'-O5'-PA-O1A
13	CF	501	GDP	C5'-O5'-PA-O1A
13	DD	501	GDP	C5'-O5'-PA-O1A
13	DF	501	GDP	C5'-O5'-PA-O1A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
13	FB	502	GDP	C5'-O5'-PA-O1A
13	FF	501	GDP	C5'-O5'-PA-O1A
13	GB	501	GDP	C5'-O5'-PA-O1A
13	GF	501	GDP	C5'-O5'-PA-O1A
13	IF	501	GDP	C5'-O5'-PA-O1A
13	JF	501	GDP	C5'-O5'-PA-O1A
13	LD	501	GDP	C5'-O5'-PA-O1A
13	MD	502	GDP	C5'-O5'-PA-O1A
11	AA	501	GTP	C4'-C5'-O5'-PA
11	AC	501	GTP	C4'-C5'-O5'-PA
11	AE	501	GTP	C4'-C5'-O5'-PA
11	BA	501	GTP	C4'-C5'-O5'-PA
11	BC	501	GTP	C4'-C5'-O5'-PA
11	BE	501	GTP	C4'-C5'-O5'-PA
11	CA	501	GTP	C4'-C5'-O5'-PA
11	CC	501	GTP	C4'-C5'-O5'-PA
11	CE	501	GTP	C4'-C5'-O5'-PA
11	DA	501	GTP	C4'-C5'-O5'-PA
11	DC	501	GTP	C4'-C5'-O5'-PA
11	DE	501	GTP	C4'-C5'-O5'-PA
11	EA	501	GTP	C4'-C5'-O5'-PA
11	EC	501	GTP	C4'-C5'-O5'-PA
11	EE	501	GTP	C4'-C5'-O5'-PA
11	FA	501	GTP	C4'-C5'-O5'-PA
11	FC	501	GTP	C4'-C5'-O5'-PA
11	FE	501	GTP	C4'-C5'-O5'-PA
11	GA	501	GTP	C4'-C5'-O5'-PA
11	GC	501	GTP	C4'-C5'-O5'-PA
11	GE	501	GTP	C4'-C5'-O5'-PA
11	HA	501	GTP	C4'-C5'-O5'-PA
11	HC	501	GTP	C4'-C5'-O5'-PA
11	HE	501	GTP	C4'-C5'-O5'-PA
11	IA	501	GTP	C4'-C5'-O5'-PA
11	IC	501	GTP	C4'-C5'-O5'-PA
11	IE	501	GTP	C4'-C5'-O5'-PA
11	JA	501	GTP	C4'-C5'-O5'-PA
11	JC	501	GTP	C4'-C5'-O5'-PA
11	JE	501	GTP	C4'-C5'-O5'-PA
11	KA	501	GTP	C4'-C5'-O5'-PA
11	KC	501	GTP	C4'-C5'-O5'-PA
11	KE	501	GTP	C4'-C5'-O5'-PA
11	LA	501	GTP	C4'-C5'-O5'-PA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
11	LC	501	GTP	C4'-C5'-O5'-PA
11	LE	501	GTP	C4'-C5'-O5'-PA
11	MA	501	GTP	C4'-C5'-O5'-PA
11	MC	501	GTP	C4'-C5'-O5'-PA
11	ME	501	GTP	C4'-C5'-O5'-PA
11	AA	501	GTP	PA-O3A-PB-O2B
11	AC	501	GTP	PA-O3A-PB-O2B
11	AE	501	GTP	PA-O3A-PB-O2B
11	BA	501	GTP	PA-O3A-PB-O2B
11	BC	501	GTP	PA-O3A-PB-O2B
11	BE	501	GTP	PA-O3A-PB-O2B
11	CA	501	GTP	PA-O3A-PB-O2B
11	CC	501	GTP	PA-O3A-PB-O2B
11	CE	501	GTP	PA-O3A-PB-O2B
11	DA	501	GTP	PA-O3A-PB-O2B
11	DC	501	GTP	PA-O3A-PB-O2B
11	DE	501	GTP	PA-O3A-PB-O2B
11	EA	501	GTP	PA-O3A-PB-O2B
11	EC	501	GTP	PA-O3A-PB-O2B
11	EE	501	GTP	PA-O3A-PB-O2B
11	FA	501	GTP	PA-O3A-PB-O2B
11	FC	501	GTP	PA-O3A-PB-O2B
11	FE	501	GTP	PA-O3A-PB-O2B
11	GA	501	GTP	PA-O3A-PB-O2B
11	GC	501	GTP	PA-O3A-PB-O2B
11	GE	501	GTP	PA-O3A-PB-O2B
11	HA	501	GTP	PA-O3A-PB-O2B
11	HC	501	GTP	PA-O3A-PB-O2B
11	HE	501	GTP	PA-O3A-PB-O2B
11	IA	501	GTP	PA-O3A-PB-O2B
11	IC	501	GTP	PA-O3A-PB-O2B
11	IE	501	GTP	PA-O3A-PB-O2B
11	JA	501	GTP	PA-O3A-PB-O2B
11	JC	501	GTP	PA-O3A-PB-O2B
11	JE	501	GTP	PA-O3A-PB-O2B
11	KA	501	GTP	PA-O3A-PB-O2B
11	KC	501	GTP	PA-O3A-PB-O2B
11	KE	501	GTP	PA-O3A-PB-O2B
11	LA	501	GTP	PA-O3A-PB-O2B
11	LC	501	GTP	PA-O3A-PB-O2B
11	LE	501	GTP	PA-O3A-PB-O2B
11	MA	501	GTP	PA-O3A-PB-O2B

Continued on next page...

Continued from previous page...

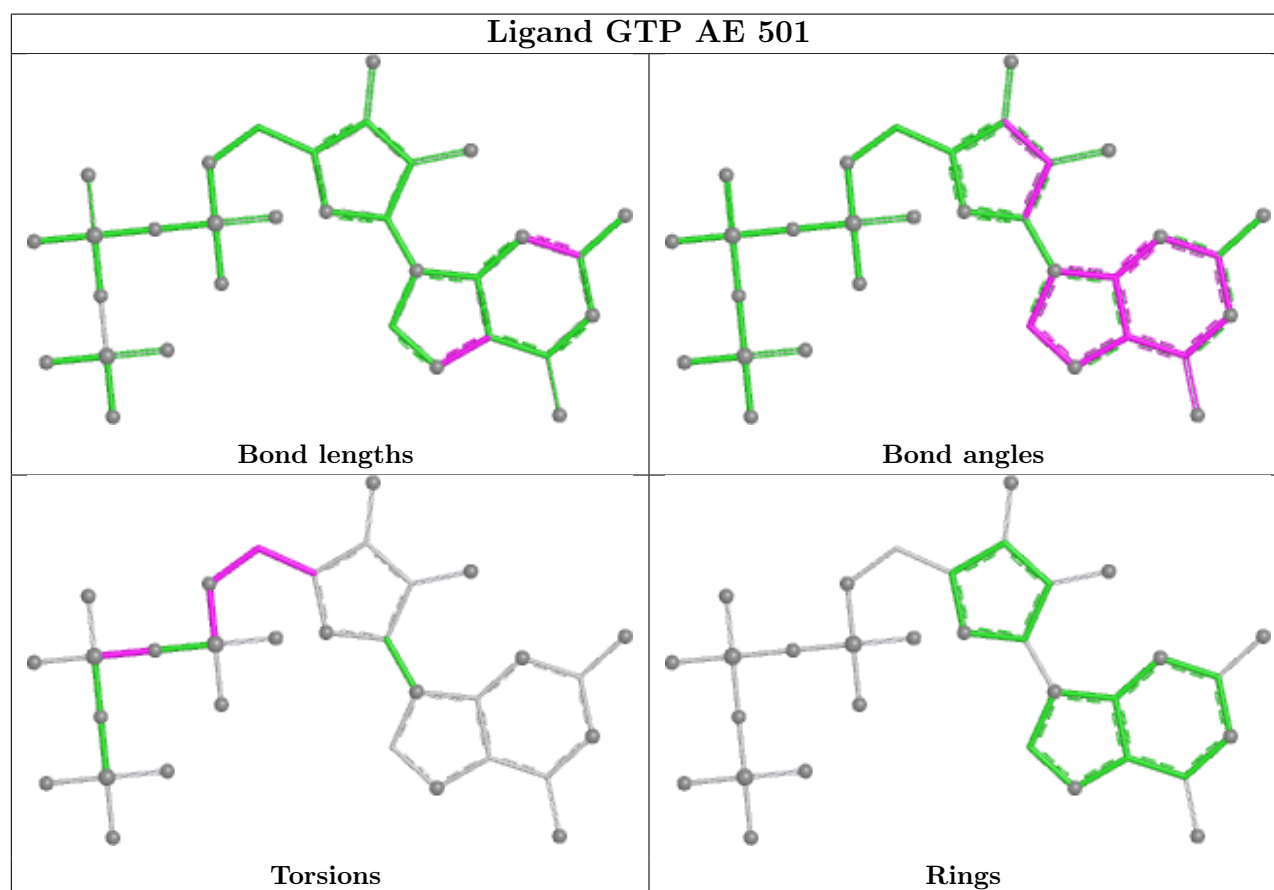
Mol	Chain	Res	Type	Atoms
11	MC	501	GTP	PA-O3A-PB-O2B
11	ME	501	GTP	PA-O3A-PB-O2B
11	AA	501	GTP	PA-O3A-PB-O1B
11	AC	501	GTP	PA-O3A-PB-O1B
11	AE	501	GTP	PA-O3A-PB-O1B
11	BA	501	GTP	PA-O3A-PB-O1B
11	BC	501	GTP	PA-O3A-PB-O1B
11	BE	501	GTP	PA-O3A-PB-O1B
11	CA	501	GTP	PA-O3A-PB-O1B
11	CC	501	GTP	PA-O3A-PB-O1B
11	CE	501	GTP	PA-O3A-PB-O1B
11	DA	501	GTP	PA-O3A-PB-O1B
11	DC	501	GTP	PA-O3A-PB-O1B
11	DE	501	GTP	PA-O3A-PB-O1B
11	EA	501	GTP	PA-O3A-PB-O1B
11	EC	501	GTP	PA-O3A-PB-O1B
11	EE	501	GTP	PA-O3A-PB-O1B
11	FA	501	GTP	PA-O3A-PB-O1B
11	FC	501	GTP	PA-O3A-PB-O1B
11	FE	501	GTP	PA-O3A-PB-O1B
11	GA	501	GTP	PA-O3A-PB-O1B
11	GC	501	GTP	PA-O3A-PB-O1B
11	GE	501	GTP	PA-O3A-PB-O1B
11	HA	501	GTP	PA-O3A-PB-O1B
11	HC	501	GTP	PA-O3A-PB-O1B
11	HE	501	GTP	PA-O3A-PB-O1B
11	IA	501	GTP	PA-O3A-PB-O1B
11	IC	501	GTP	PA-O3A-PB-O1B
11	IE	501	GTP	PA-O3A-PB-O1B
11	JA	501	GTP	PA-O3A-PB-O1B
11	JC	501	GTP	PA-O3A-PB-O1B
11	JE	501	GTP	PA-O3A-PB-O1B
11	KA	501	GTP	PA-O3A-PB-O1B
11	KC	501	GTP	PA-O3A-PB-O1B
11	KE	501	GTP	PA-O3A-PB-O1B
11	LA	501	GTP	PA-O3A-PB-O1B
11	LC	501	GTP	PA-O3A-PB-O1B
11	LE	501	GTP	PA-O3A-PB-O1B
11	MA	501	GTP	PA-O3A-PB-O1B
11	MC	501	GTP	PA-O3A-PB-O1B
11	ME	501	GTP	PA-O3A-PB-O1B

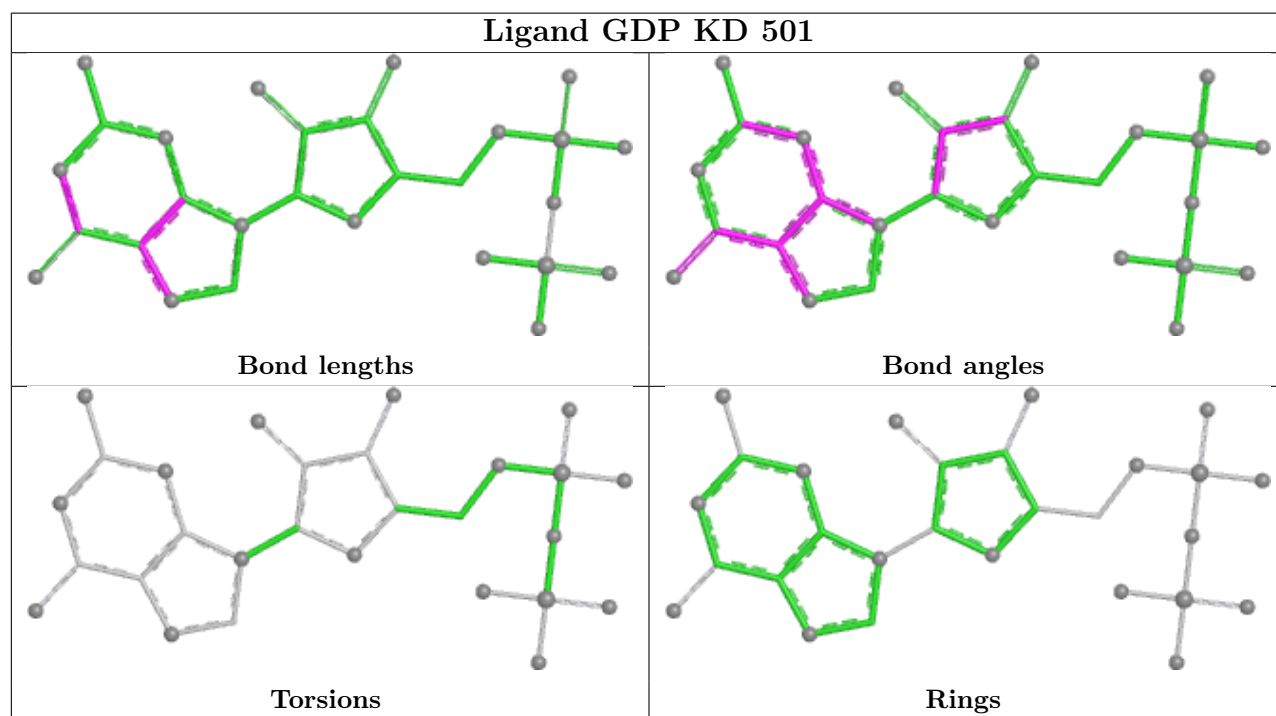
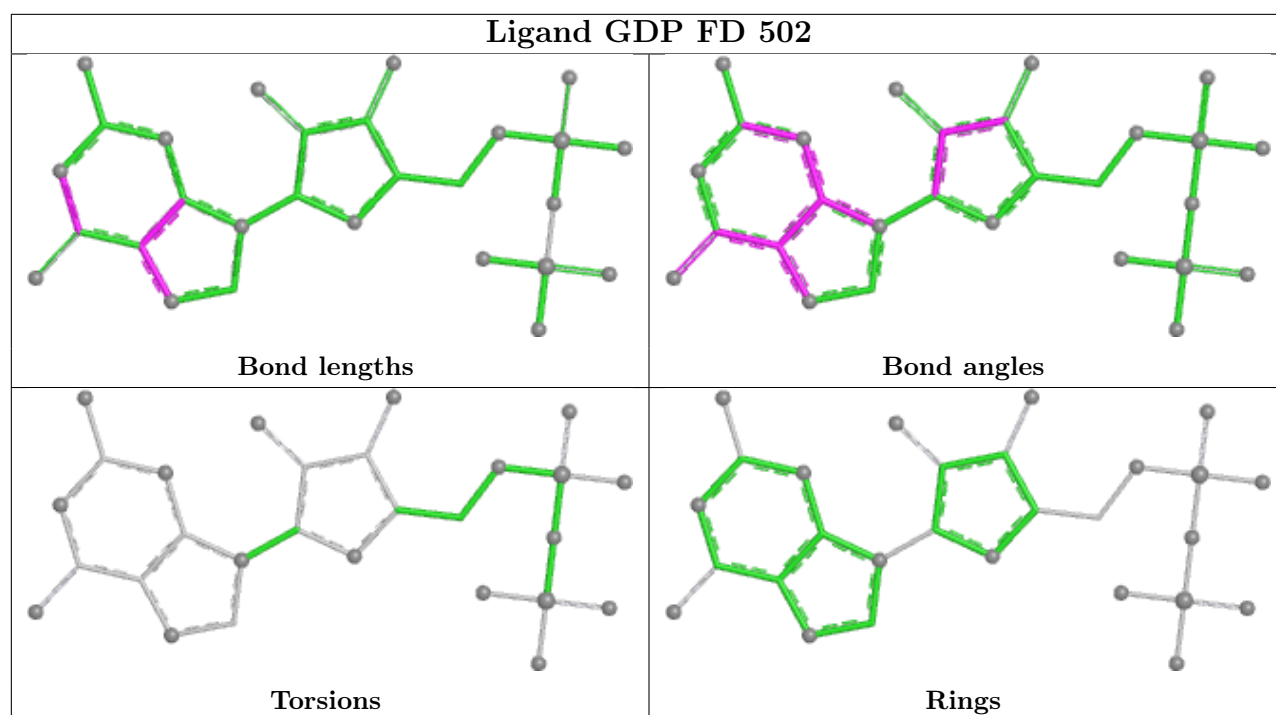
There are no ring outliers.

41 monomers are involved in 103 short contacts:

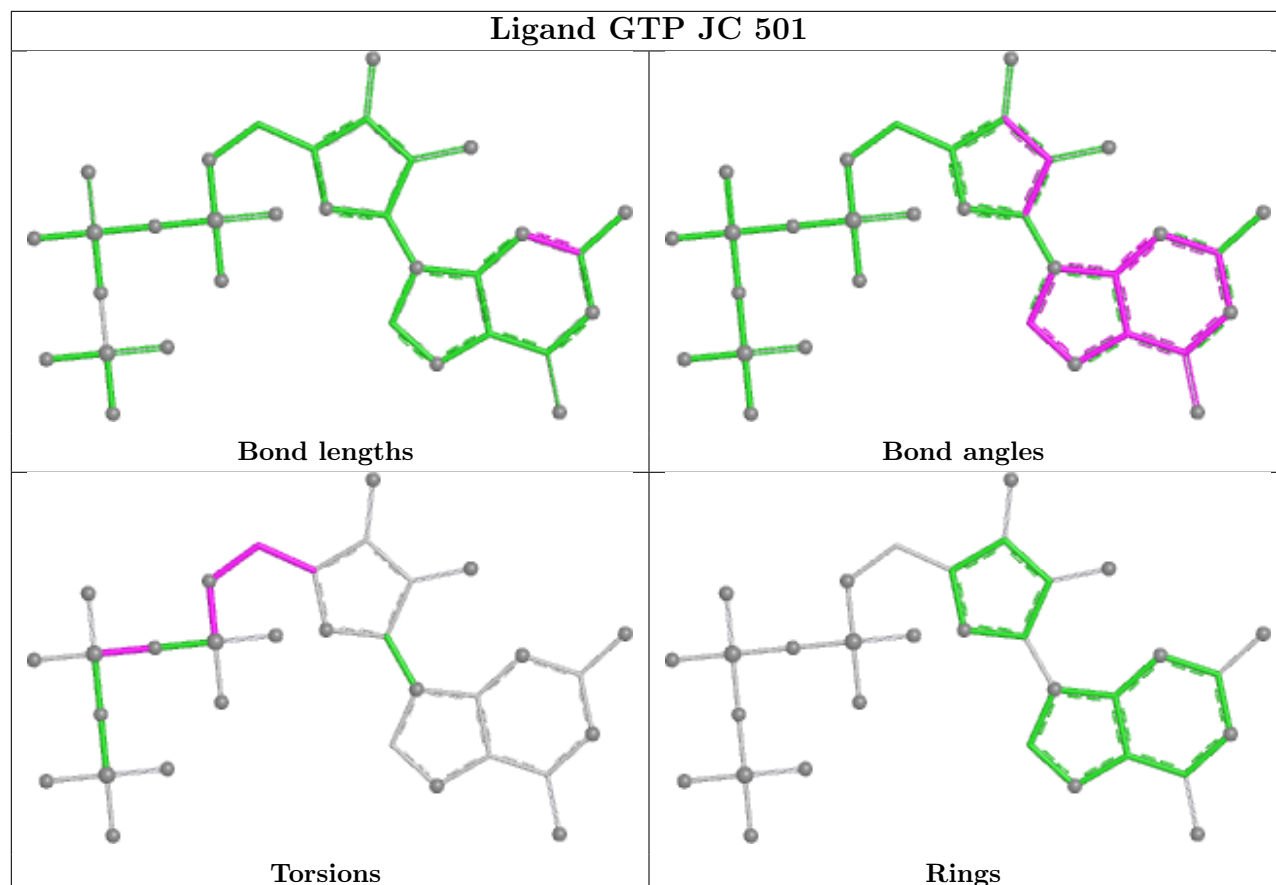
Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	FD	502	GDP	4	0
13	KD	501	GDP	3	0
13	BD	501	GDP	3	0
13	CF	501	GDP	2	0
13	IF	501	GDP	2	0
13	GD	501	GDP	3	0
13	HF	501	GDP	2	0
13	JF	501	GDP	2	0
13	MD	502	GDP	2	0
13	ID	501	GDP	3	0
13	KF	501	GDP	2	0
13	LB	501	GDP	2	0
13	FB	502	GDP	4	0
13	FF	501	GDP	2	0
13	DF	501	GDP	2	0
13	BB	501	GDP	3	0
13	LF	501	GDP	2	0
13	GF	501	GDP	2	0
13	MB	502	GDP	2	0
13	AB	501	GDP	2	0
13	AF	501	GDP	1	0
13	EB	501	GDP	4	0
13	HB	501	GDP	3	0
13	DD	501	GDP	3	0
13	MF	502	GDP	2	0
13	JB	501	GDP	3	0
13	BF	501	GDP	2	0
13	HD	501	GDP	3	0
13	DB	501	GDP	3	0
13	GB	501	GDP	3	0
13	CD	501	GDP	3	0
13	ED	502	GDP	4	0
13	EF	501	GDP	2	0
13	CB	501	GDP	3	0
13	KB	501	GDP	3	0
13	AD	501	GDP	2	0
11	MA	501	GTP	1	0
13	LD	501	GDP	2	0
13	JD	501	GDP	3	0
13	IB	501	GDP	3	0
11	MC	501	GTP	1	0

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

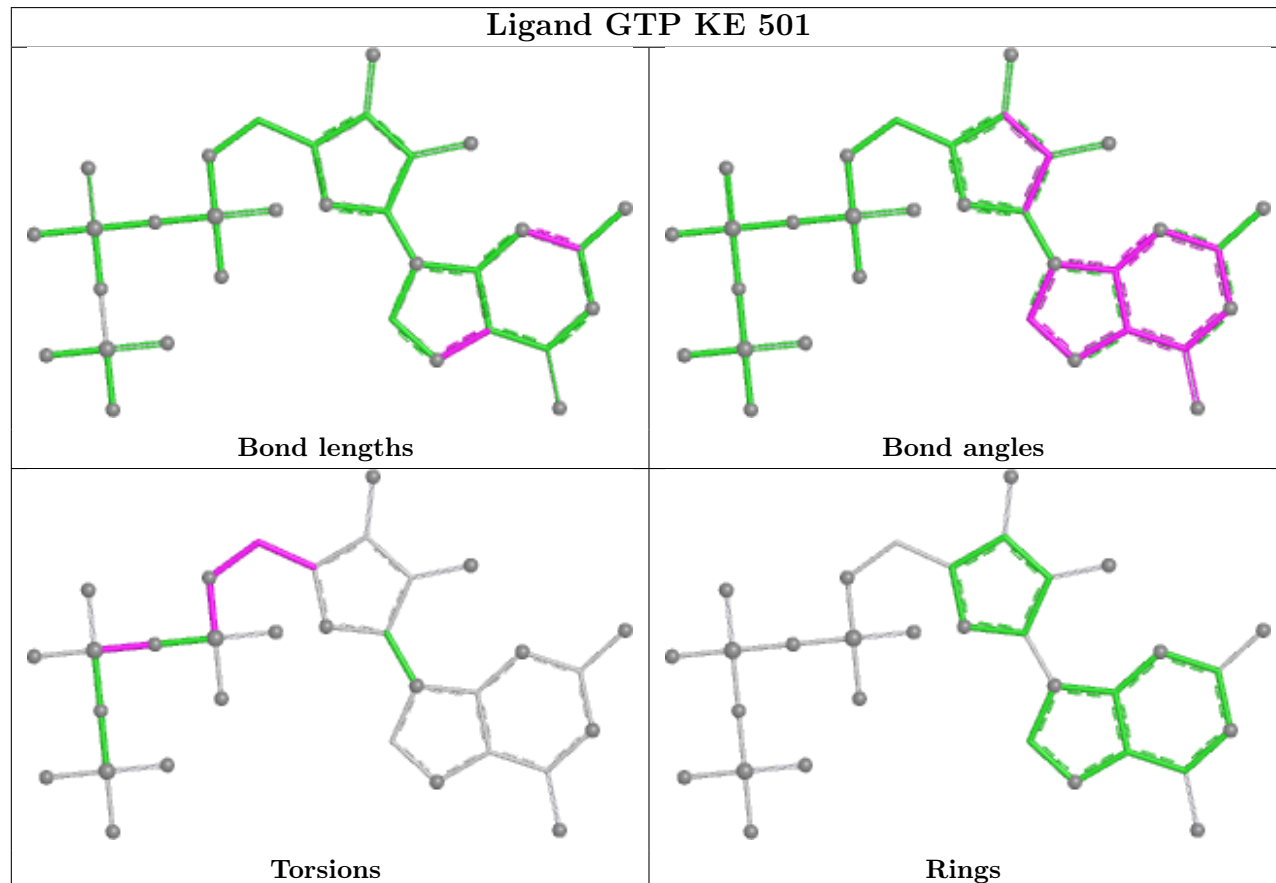


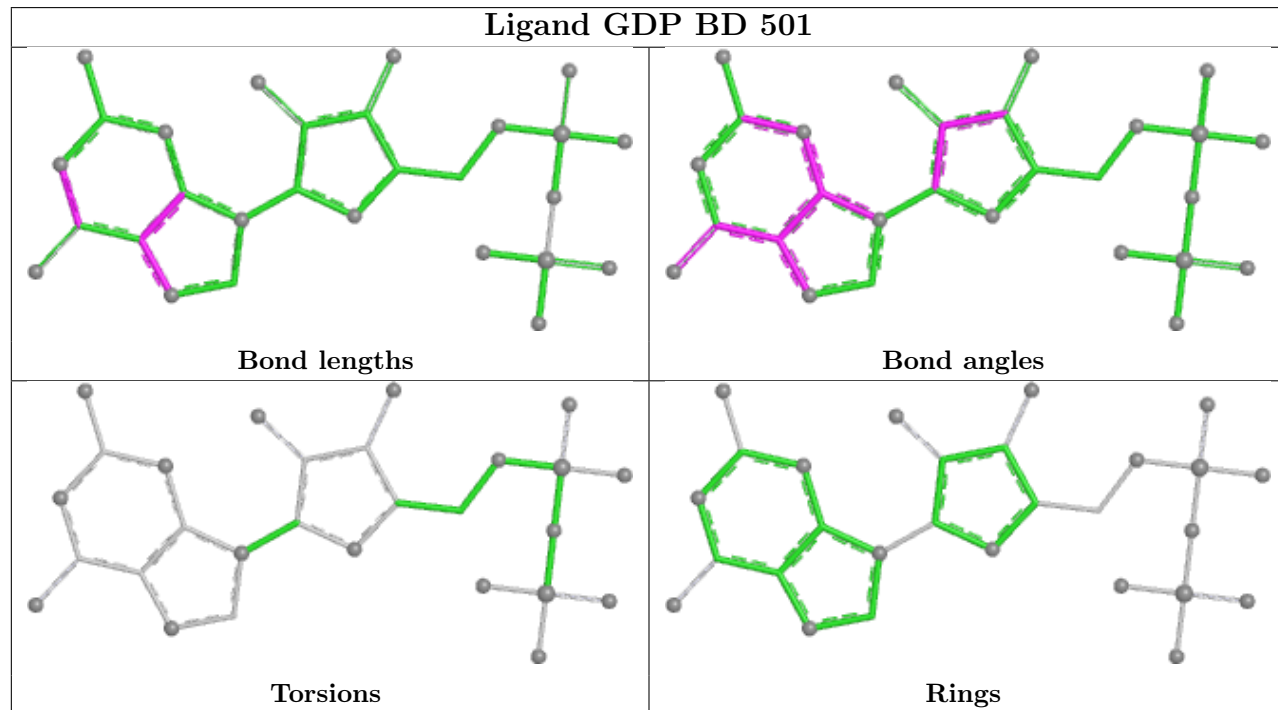
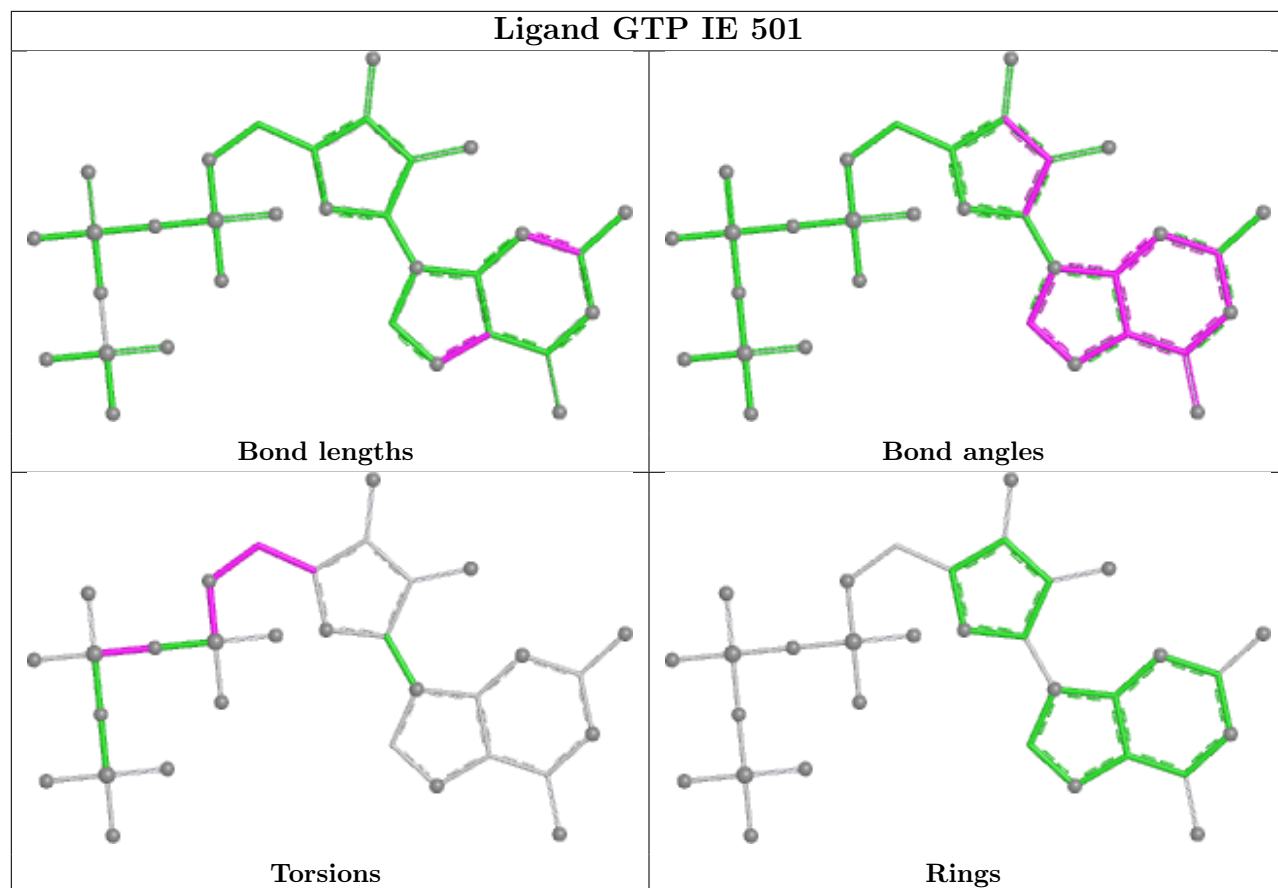


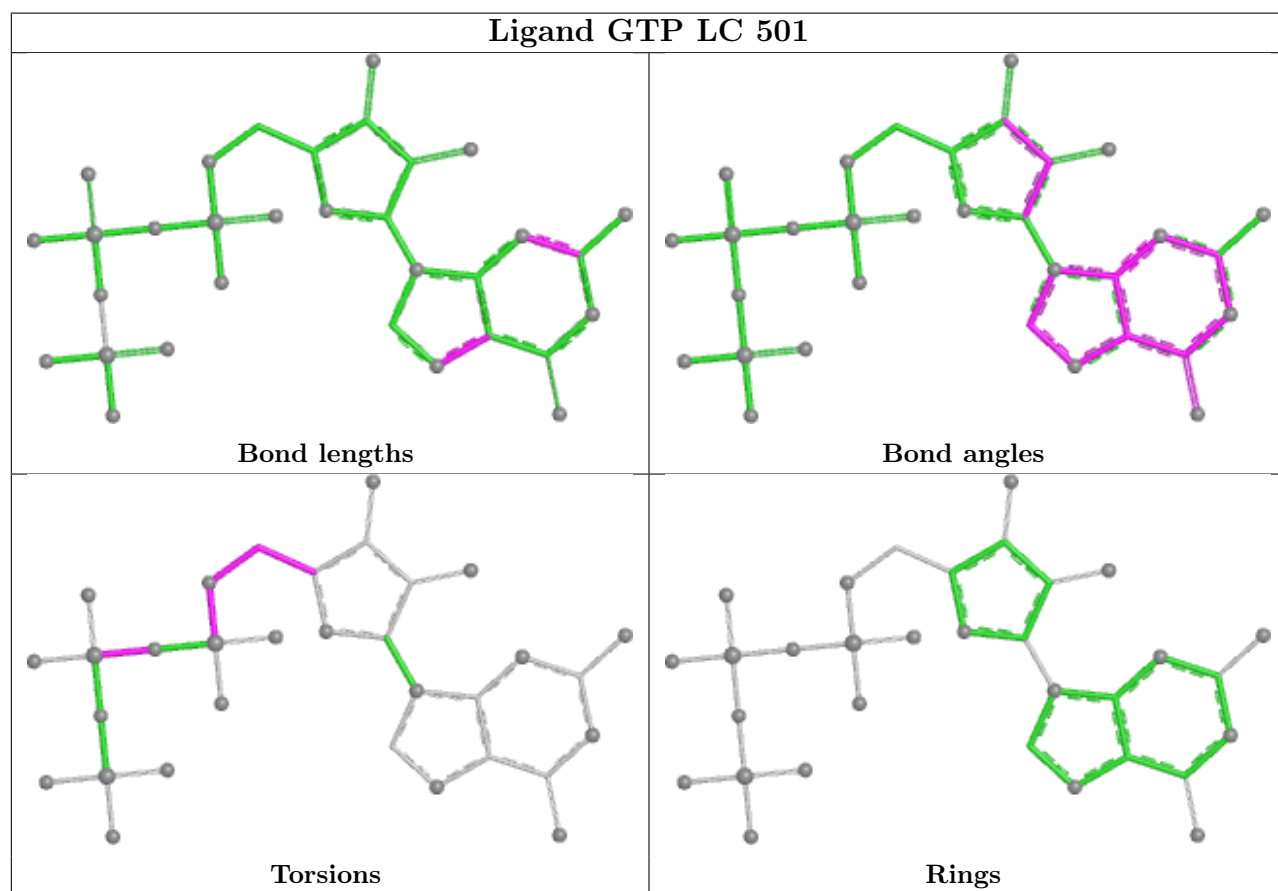
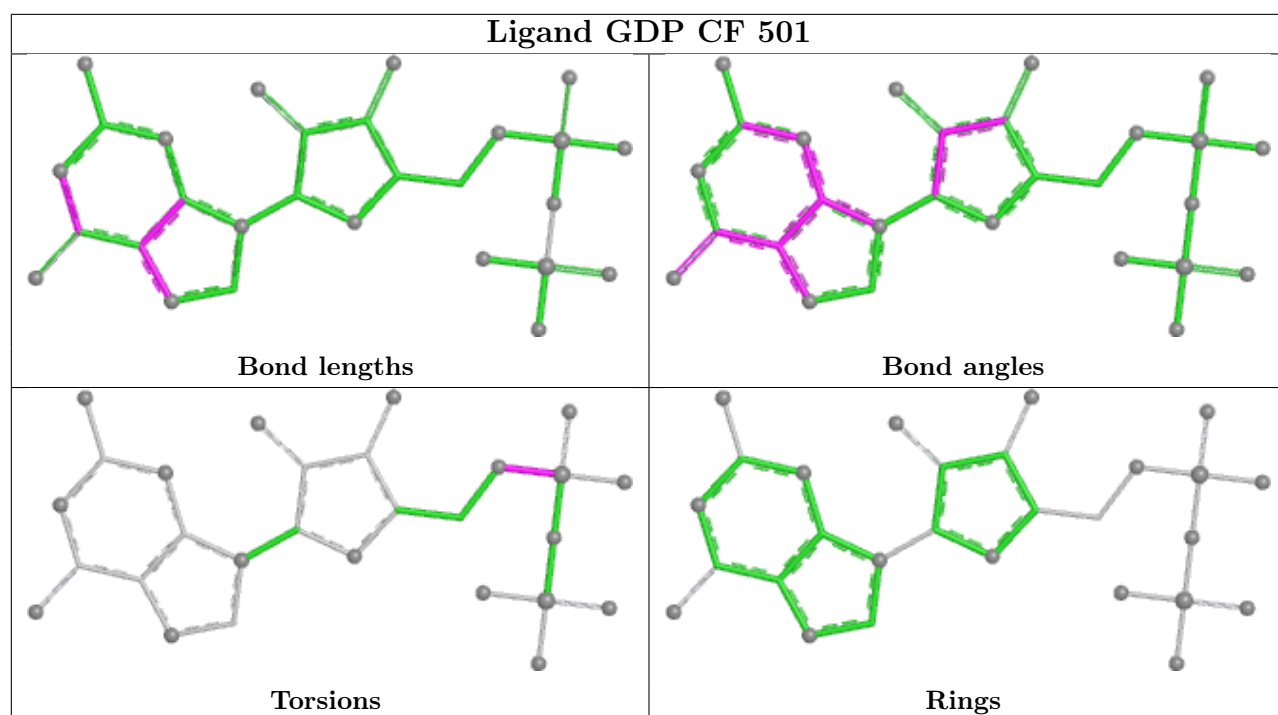
Ligand GTP JC 501



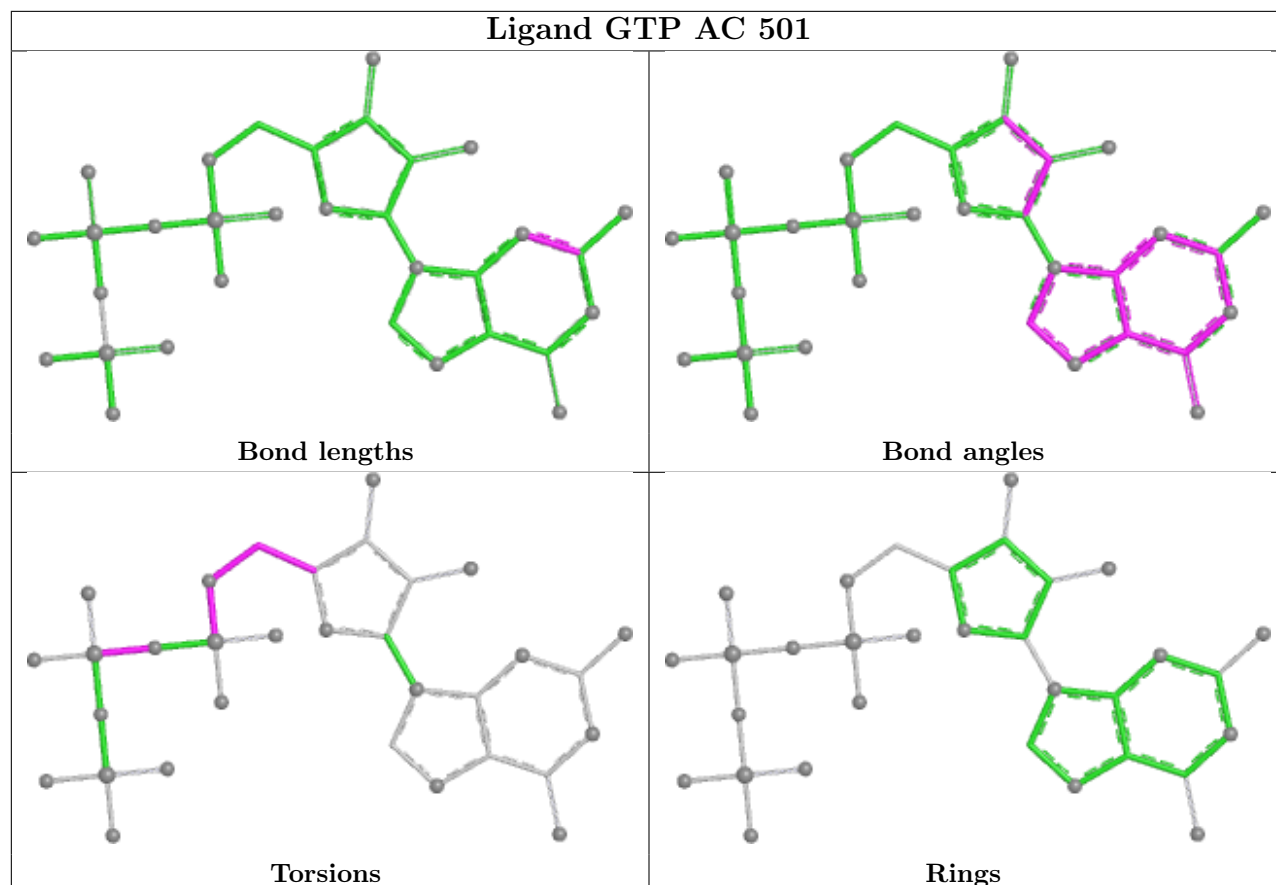
Ligand GTP KE 501



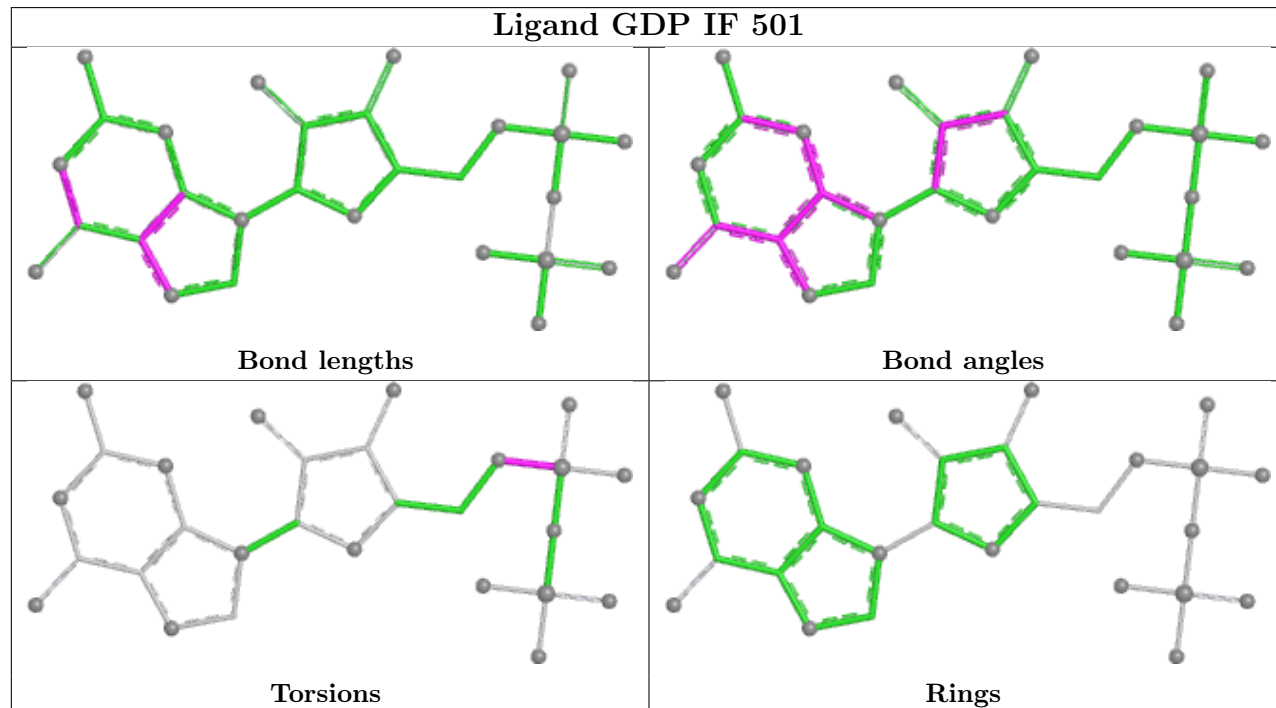




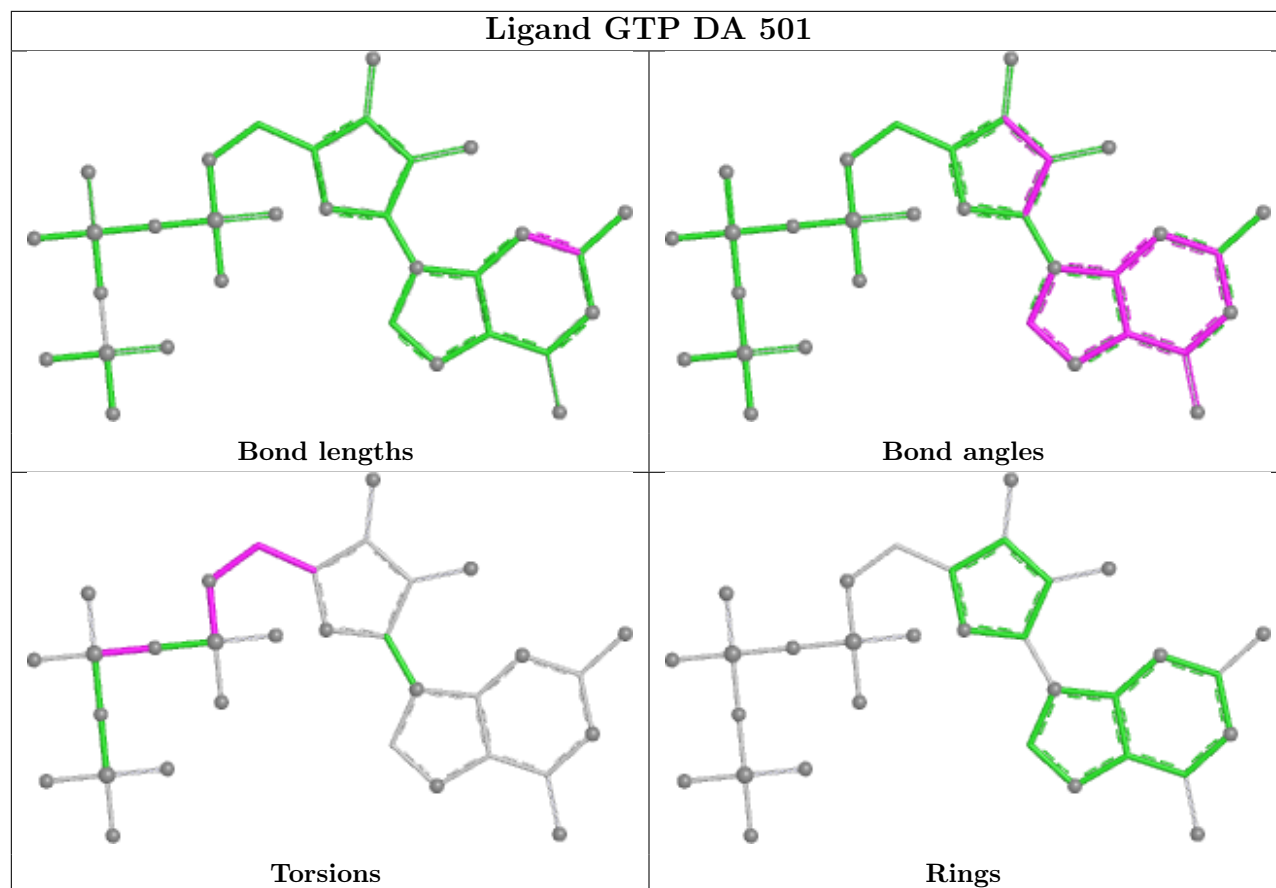
Ligand GTP AC 501



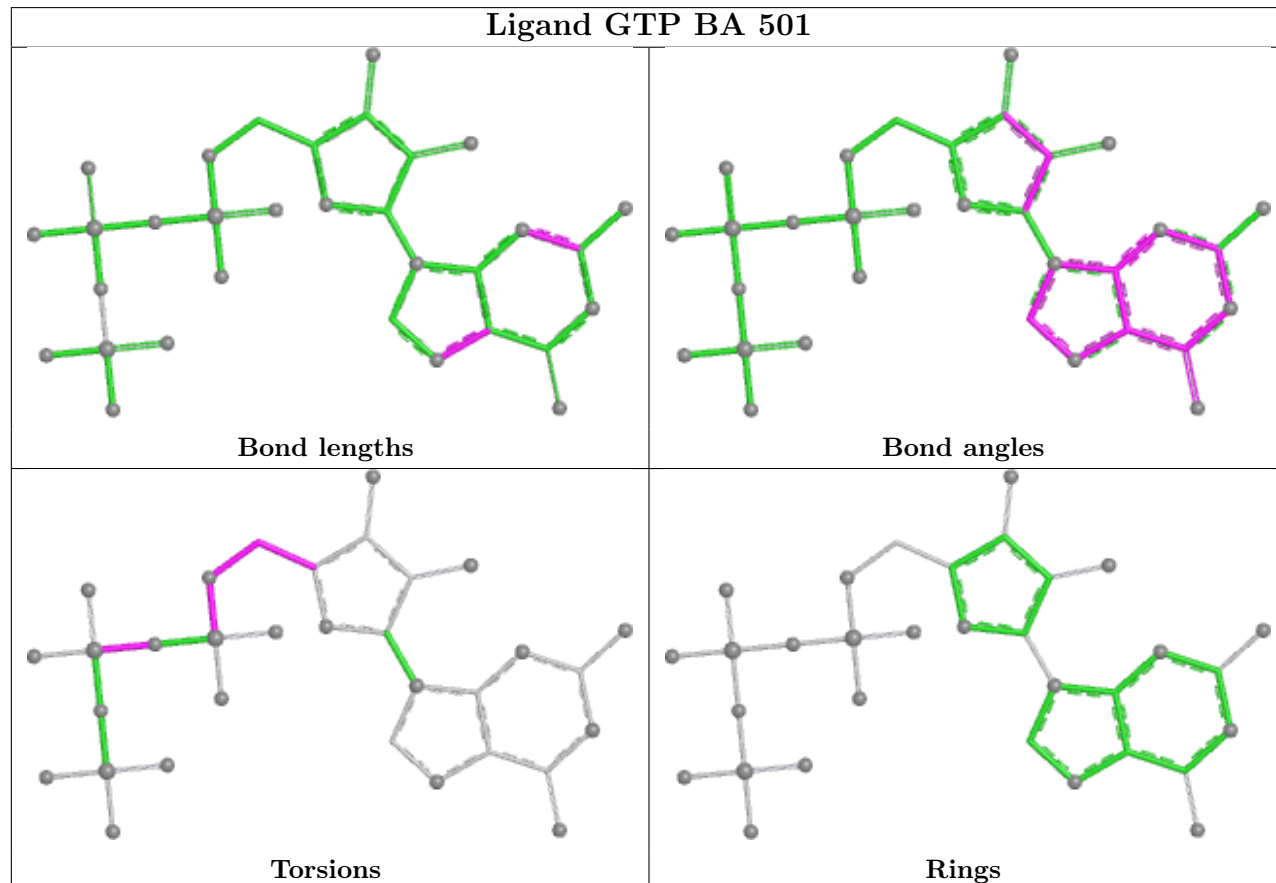
Ligand GDP IF 501

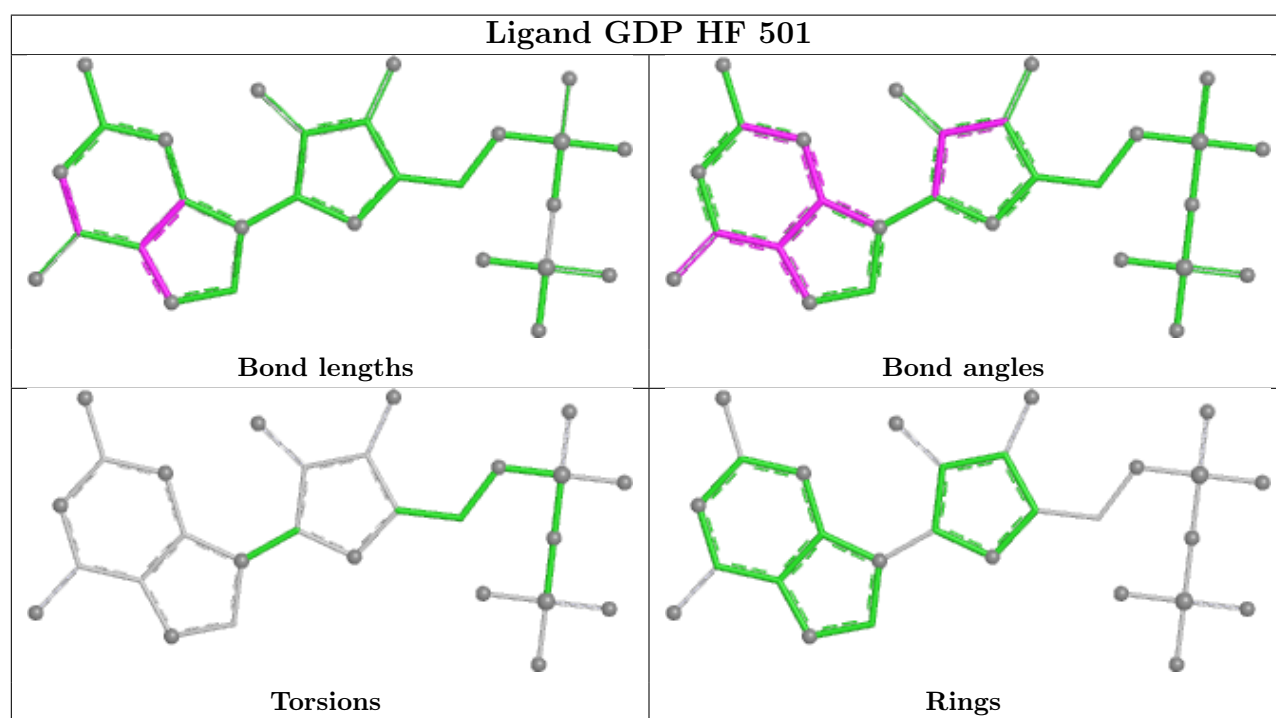
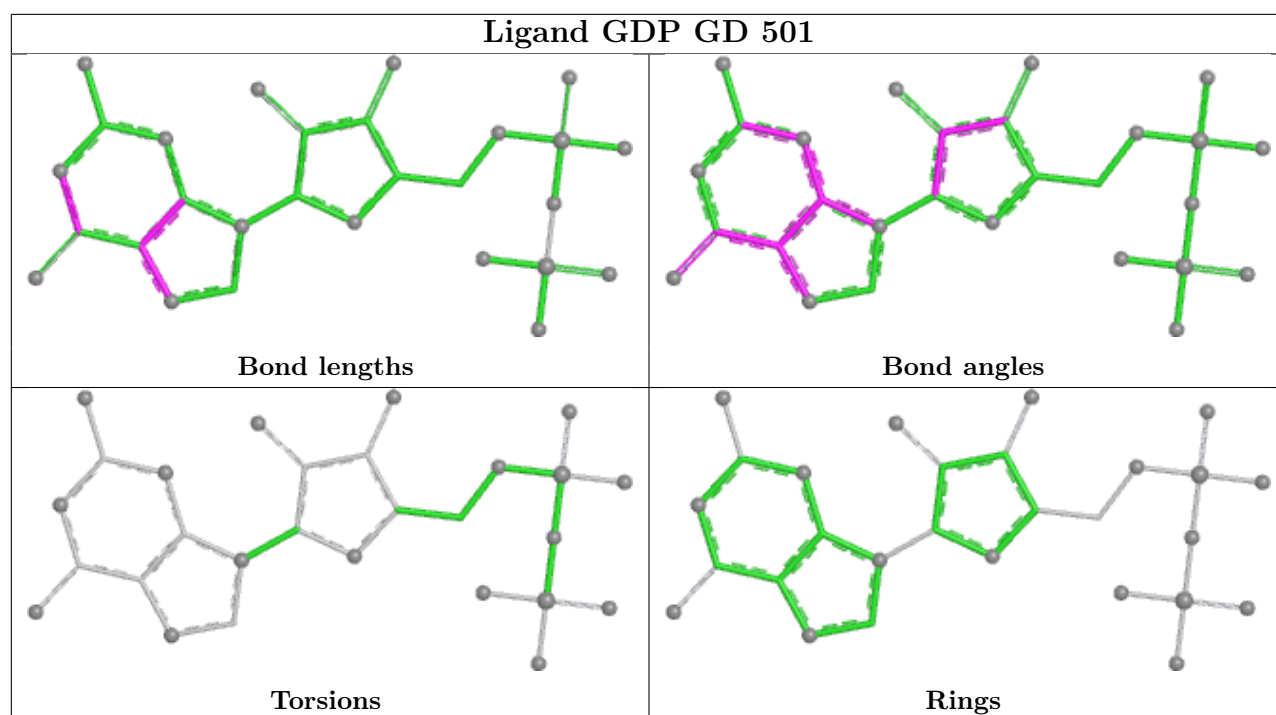


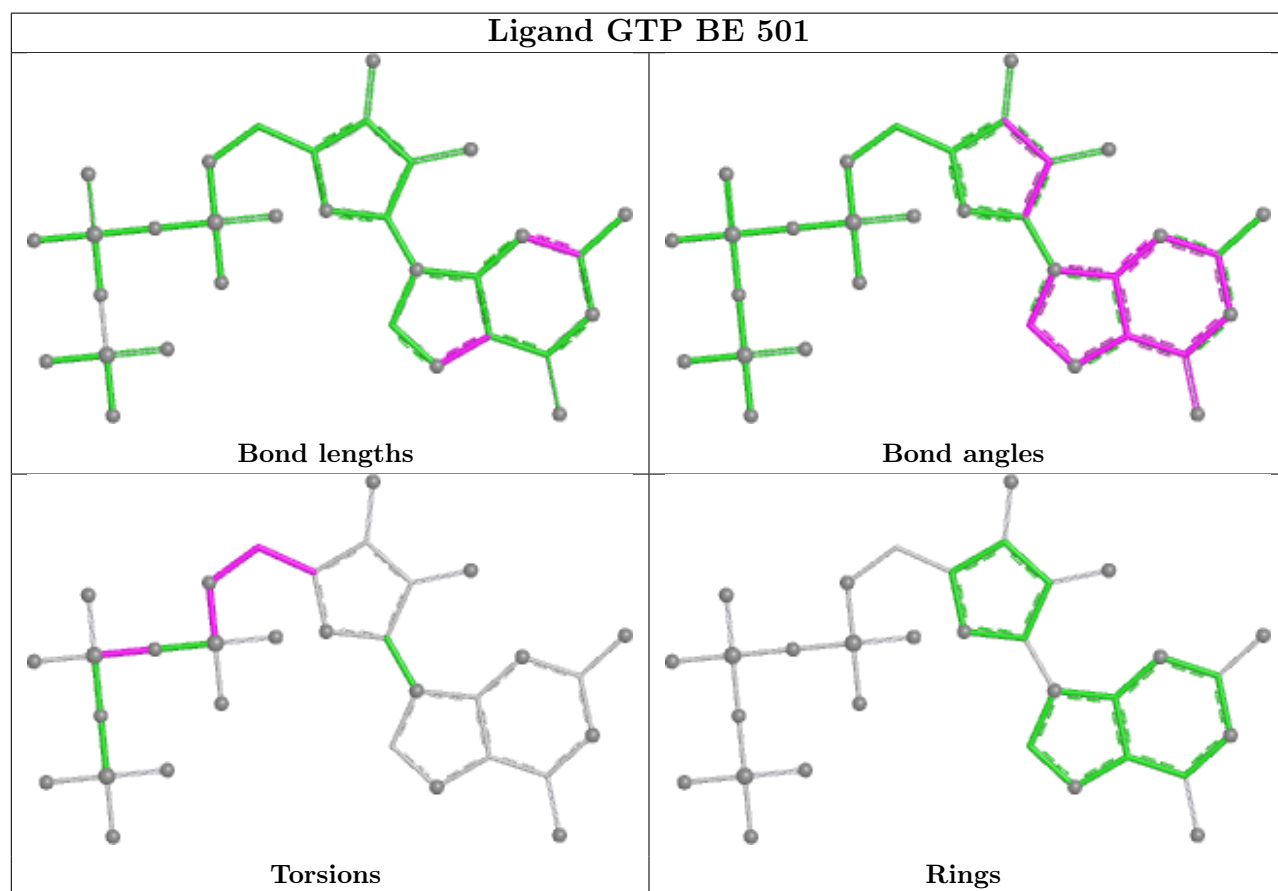
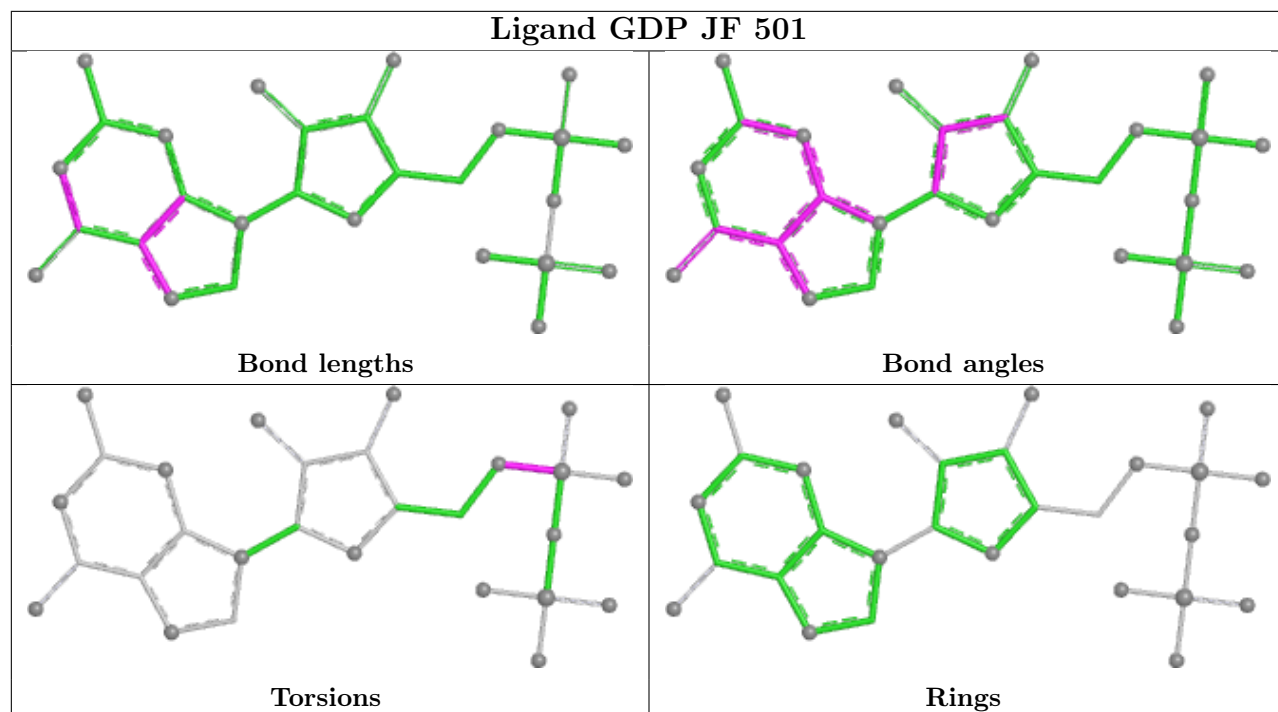
Ligand GTP DA 501

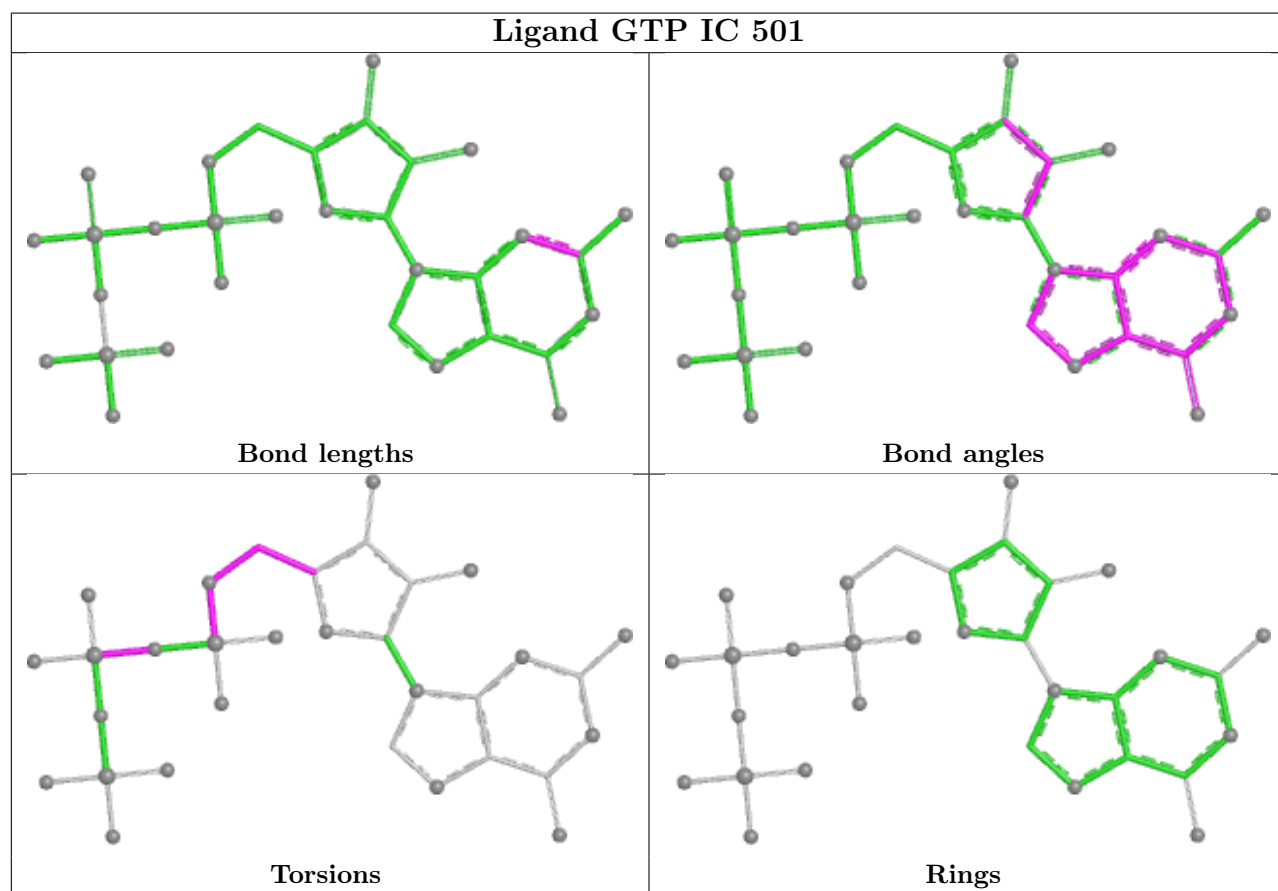
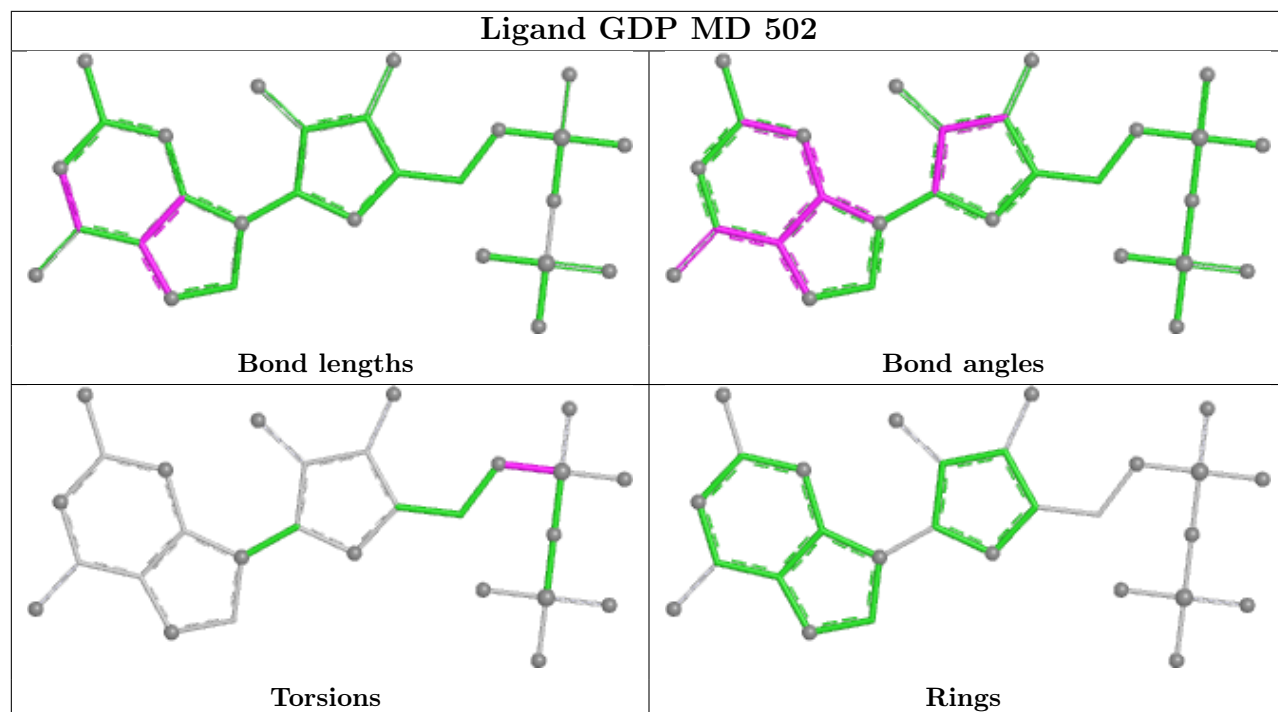


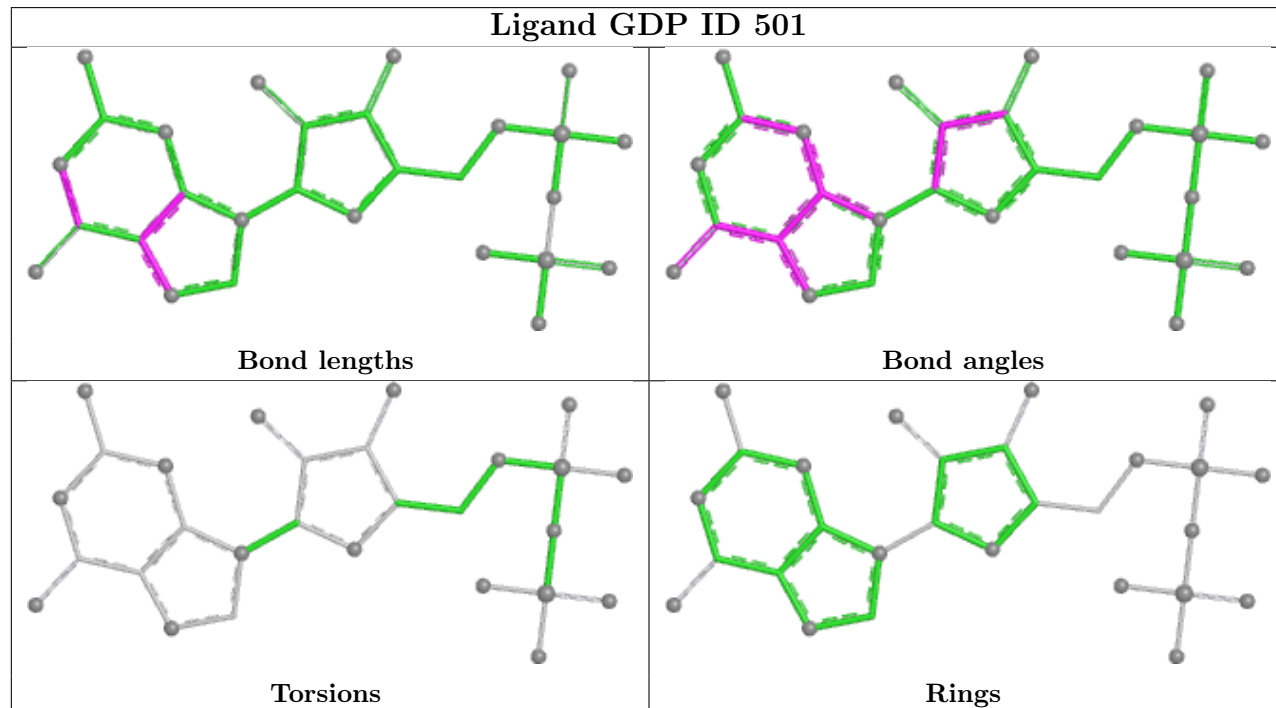
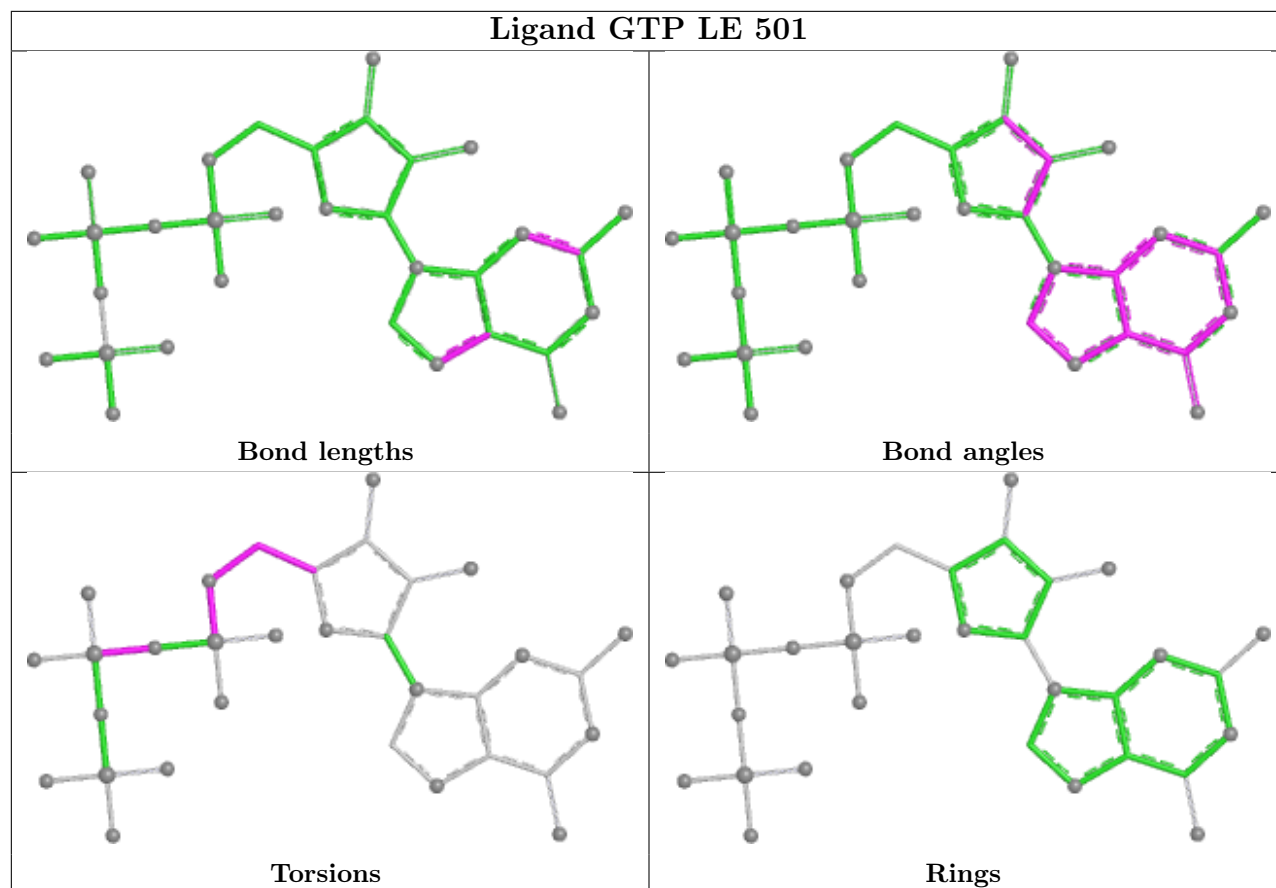
Ligand GTP BA 501

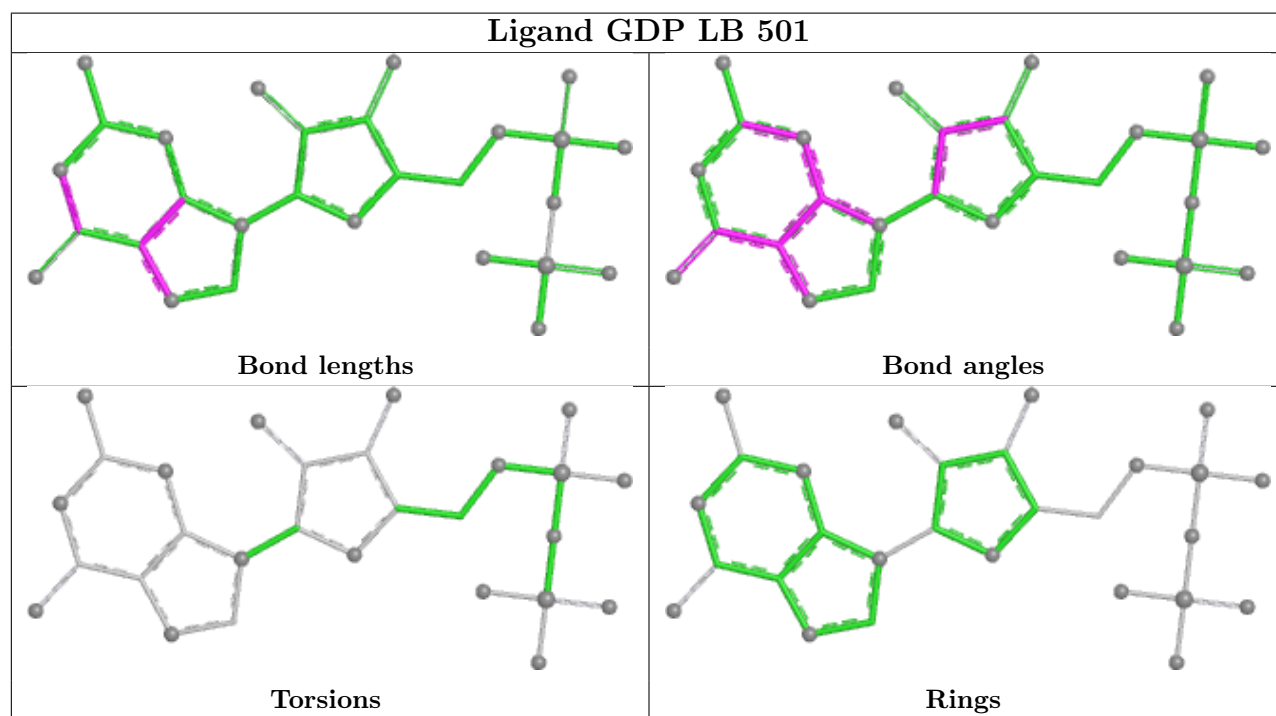
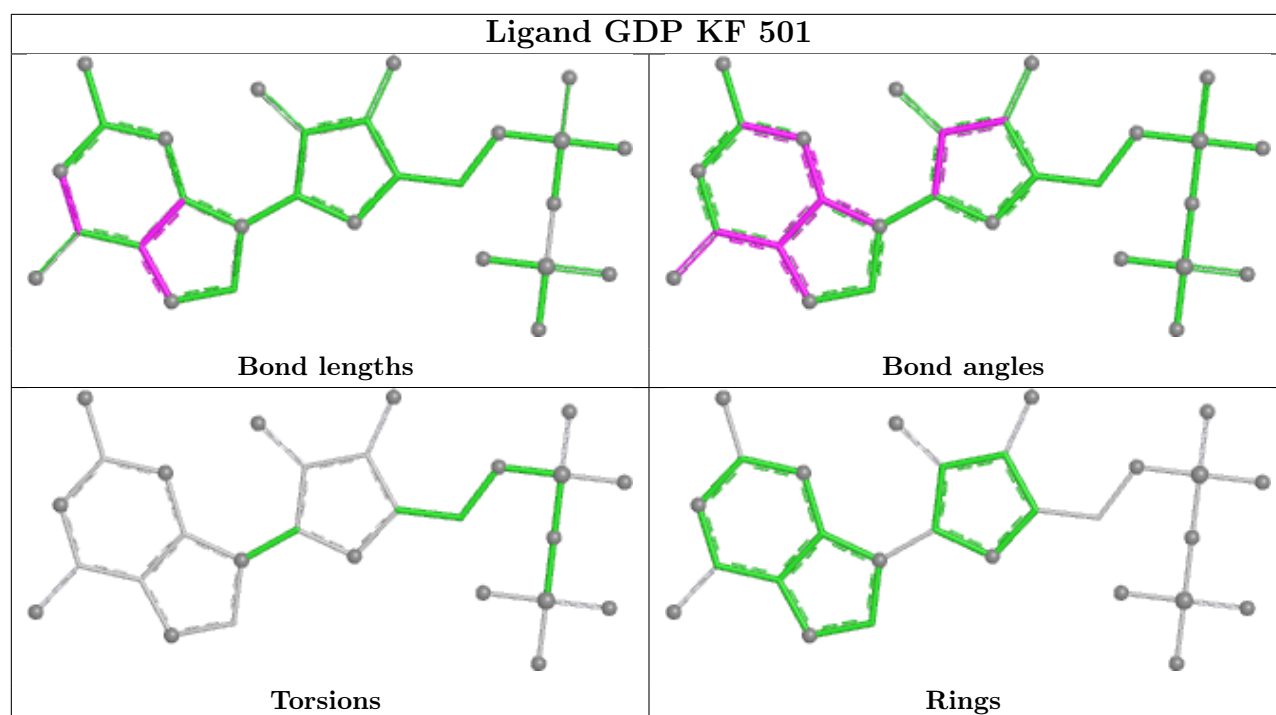




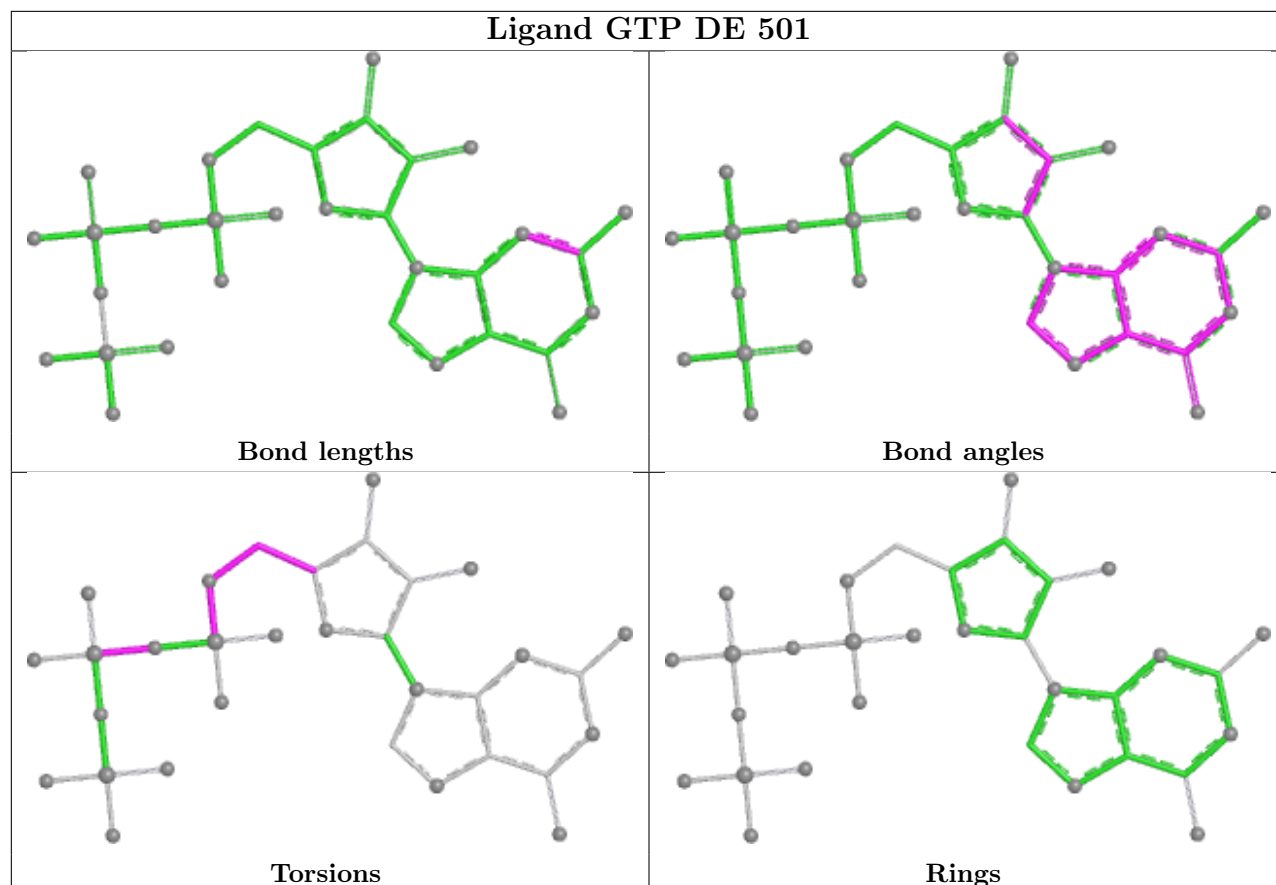




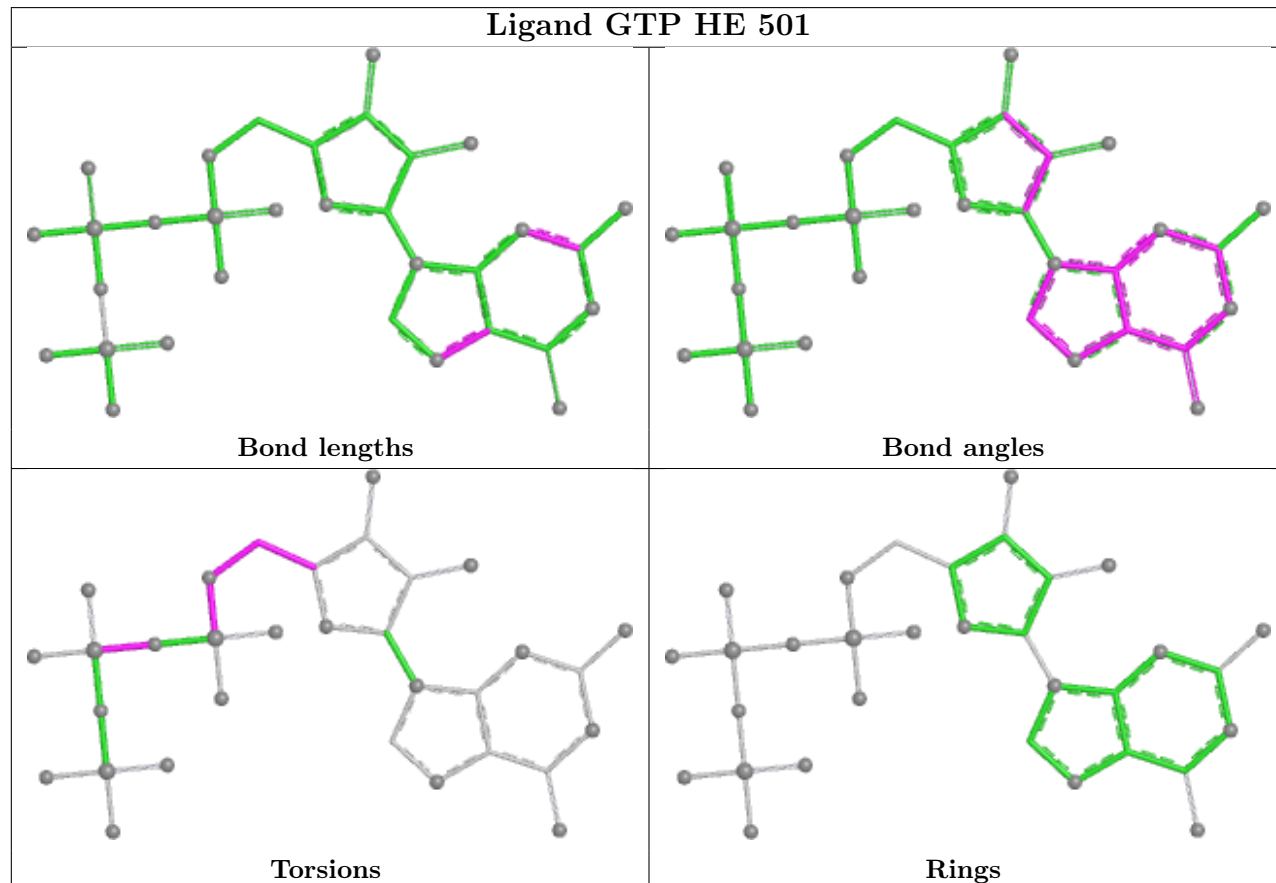


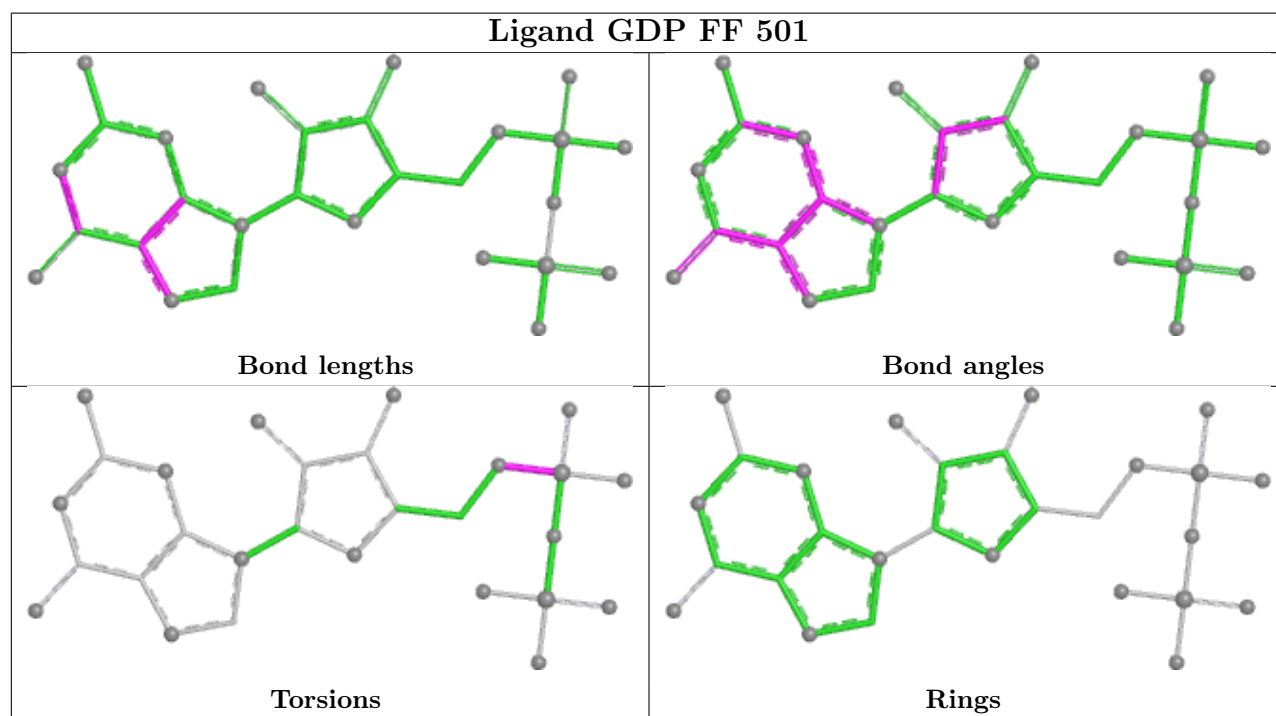
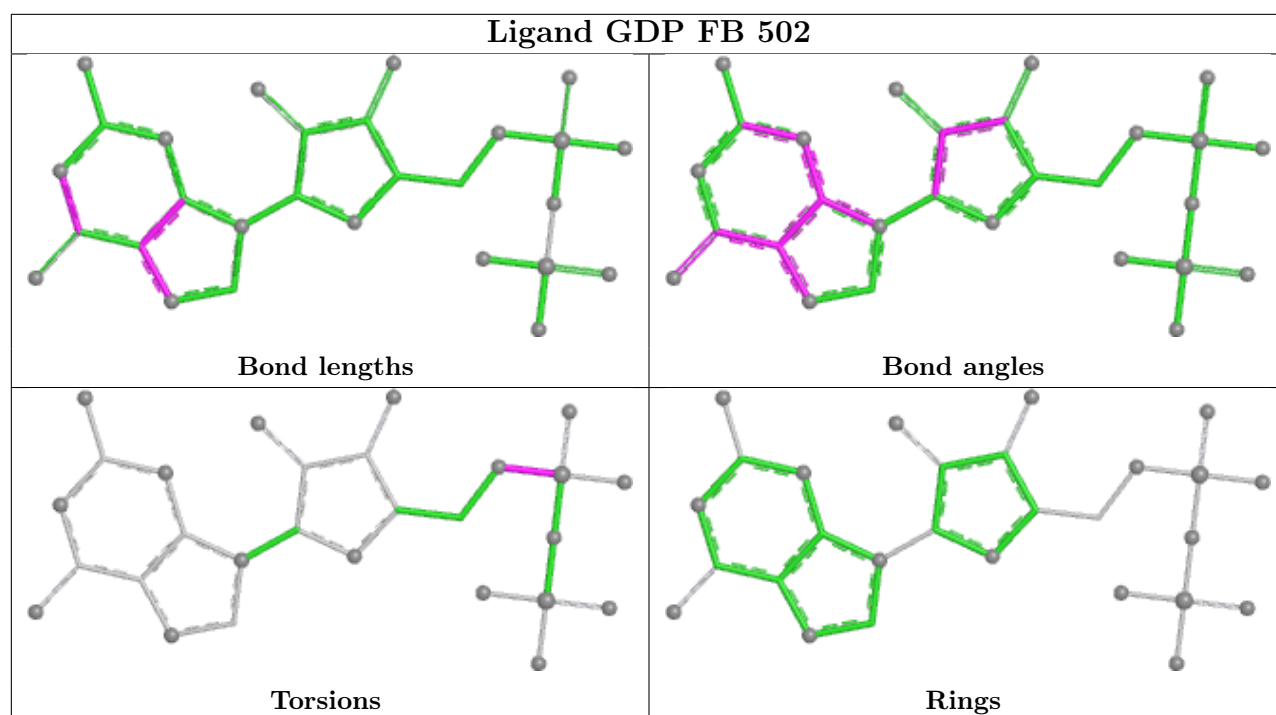


Ligand GTP DE 501

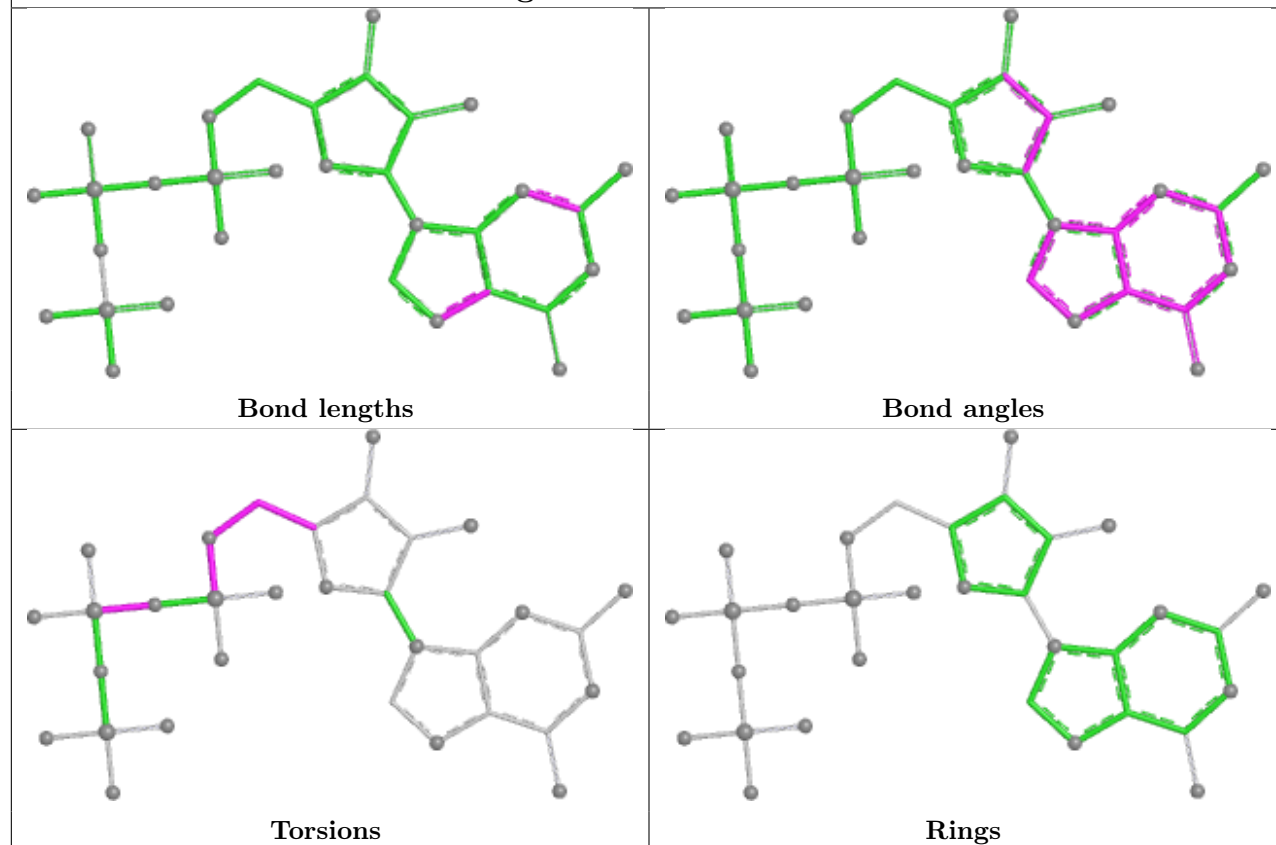


Ligand GTP HE 501

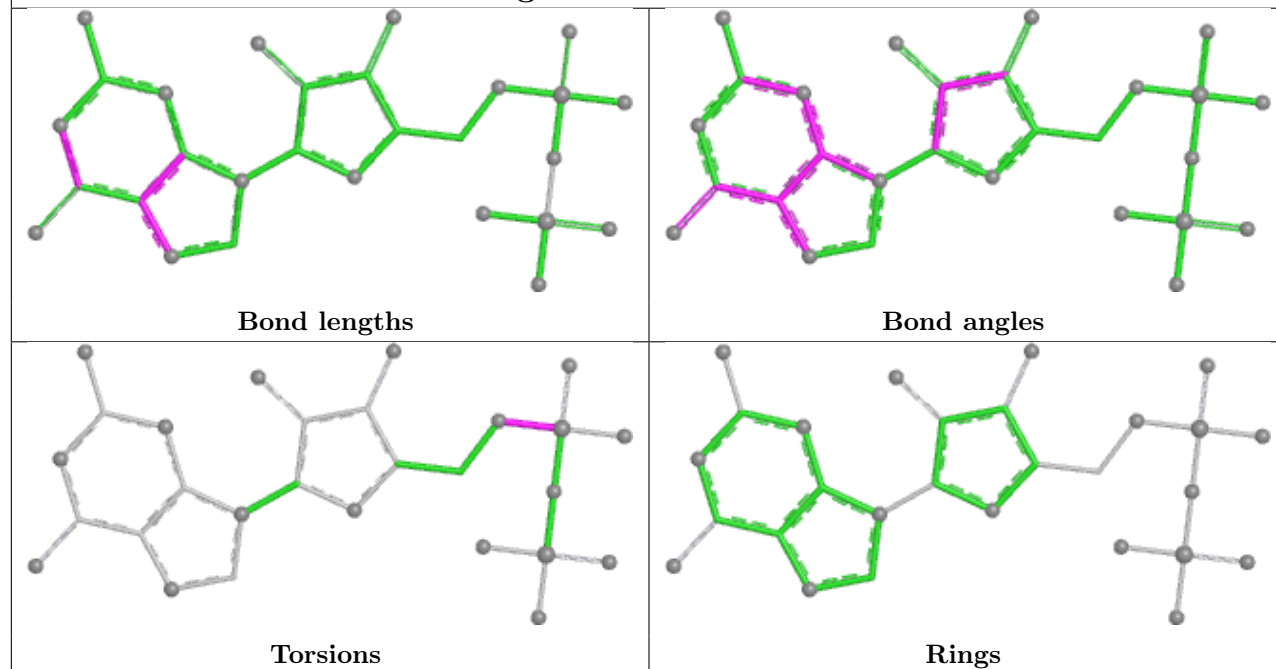


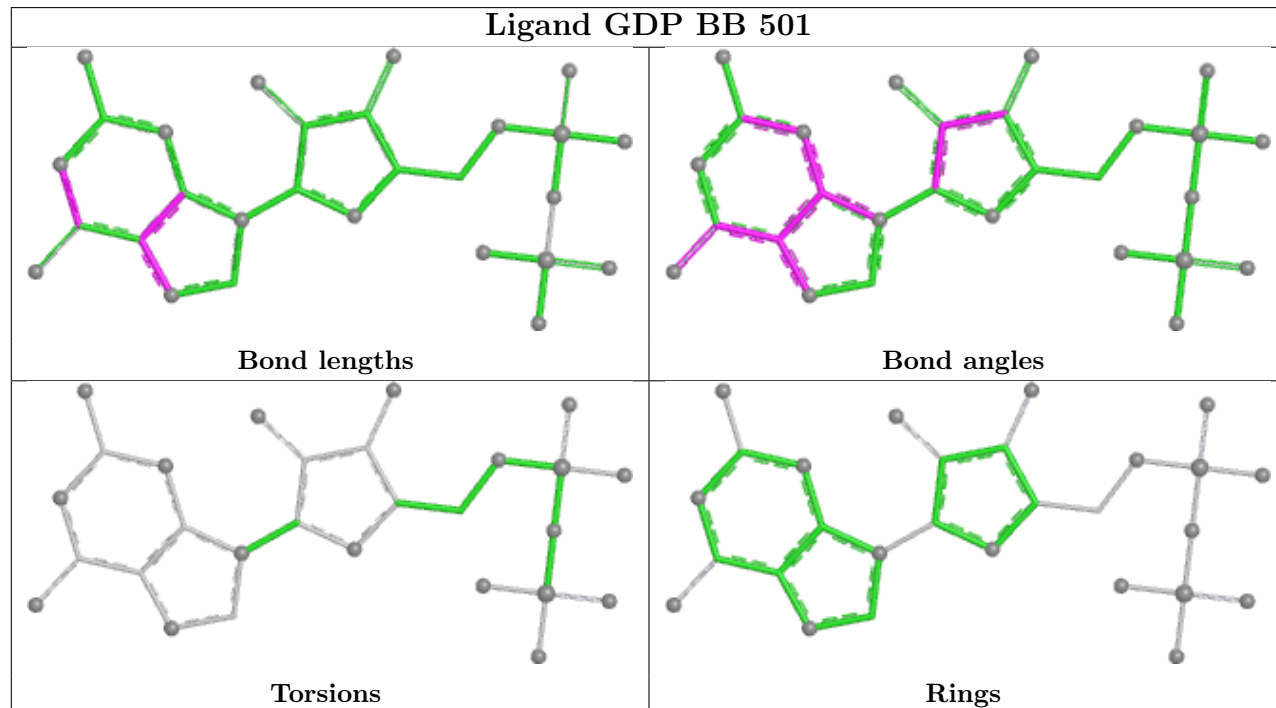
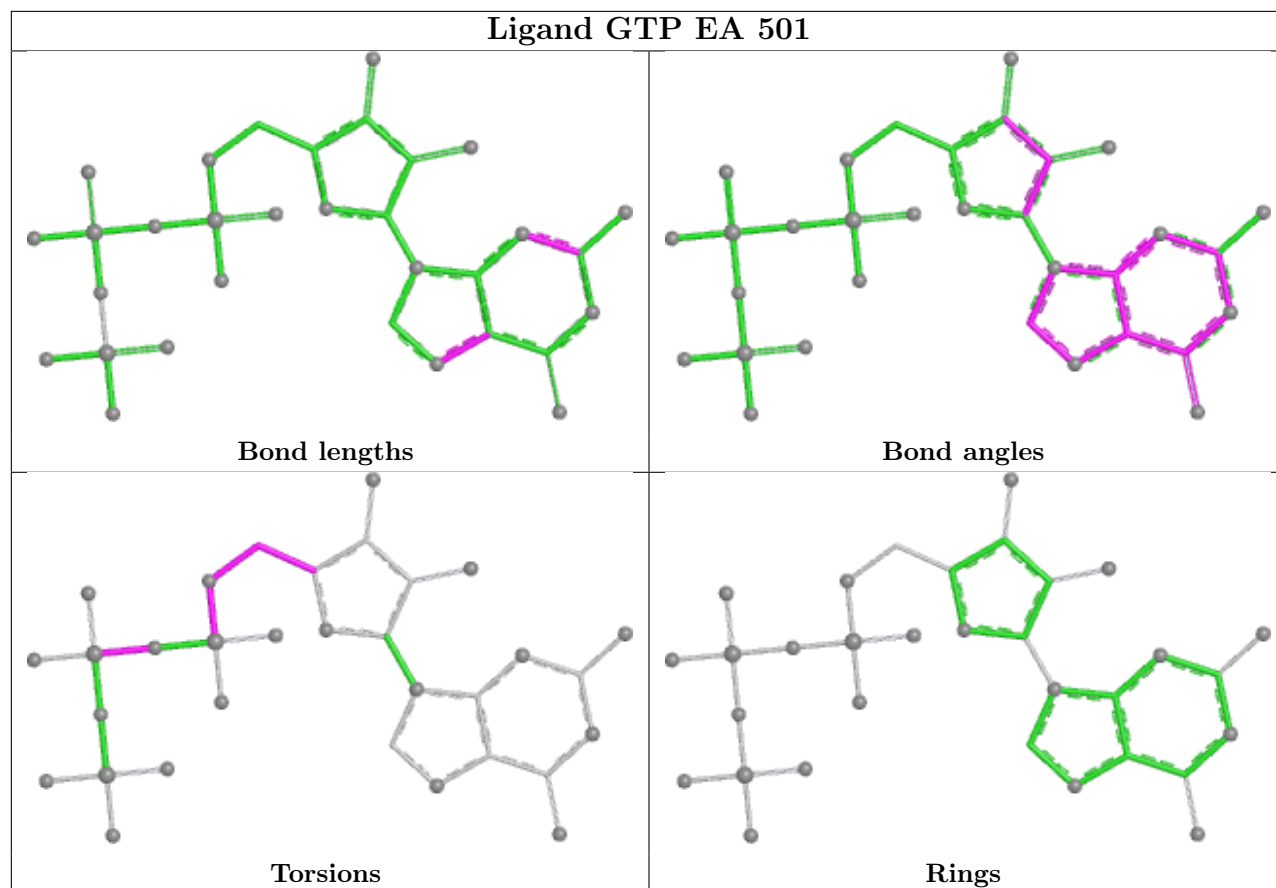


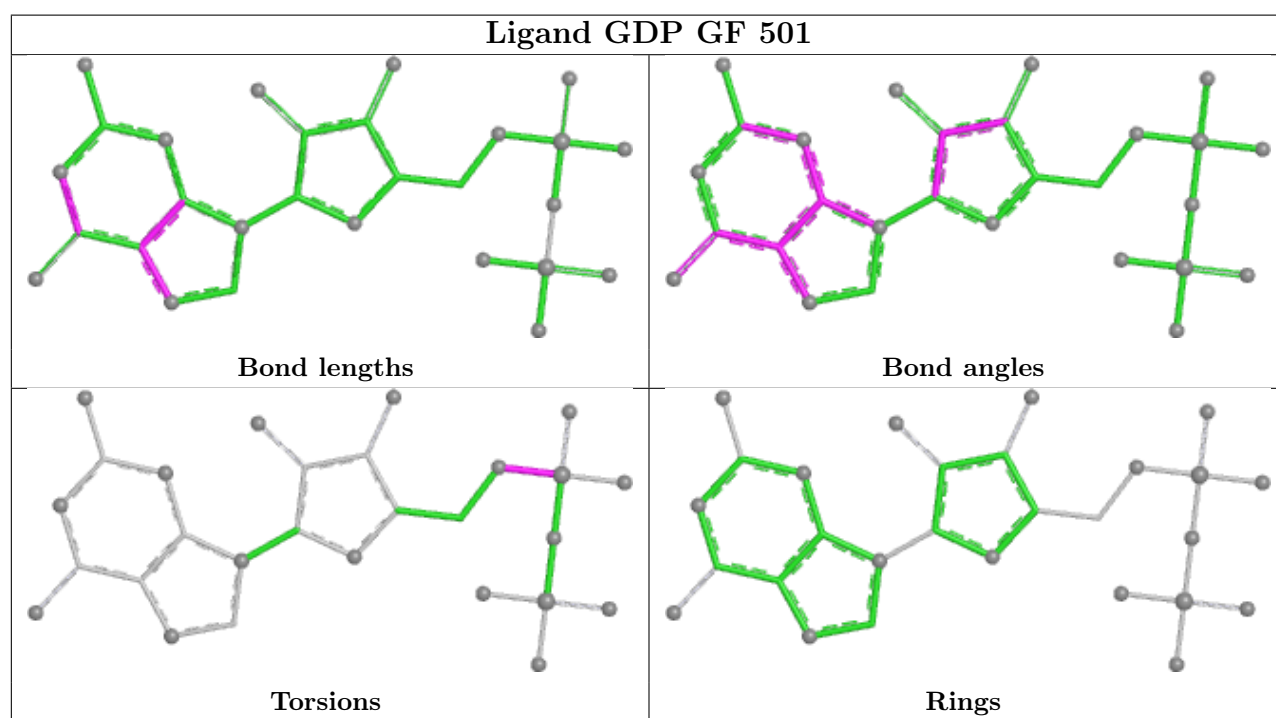
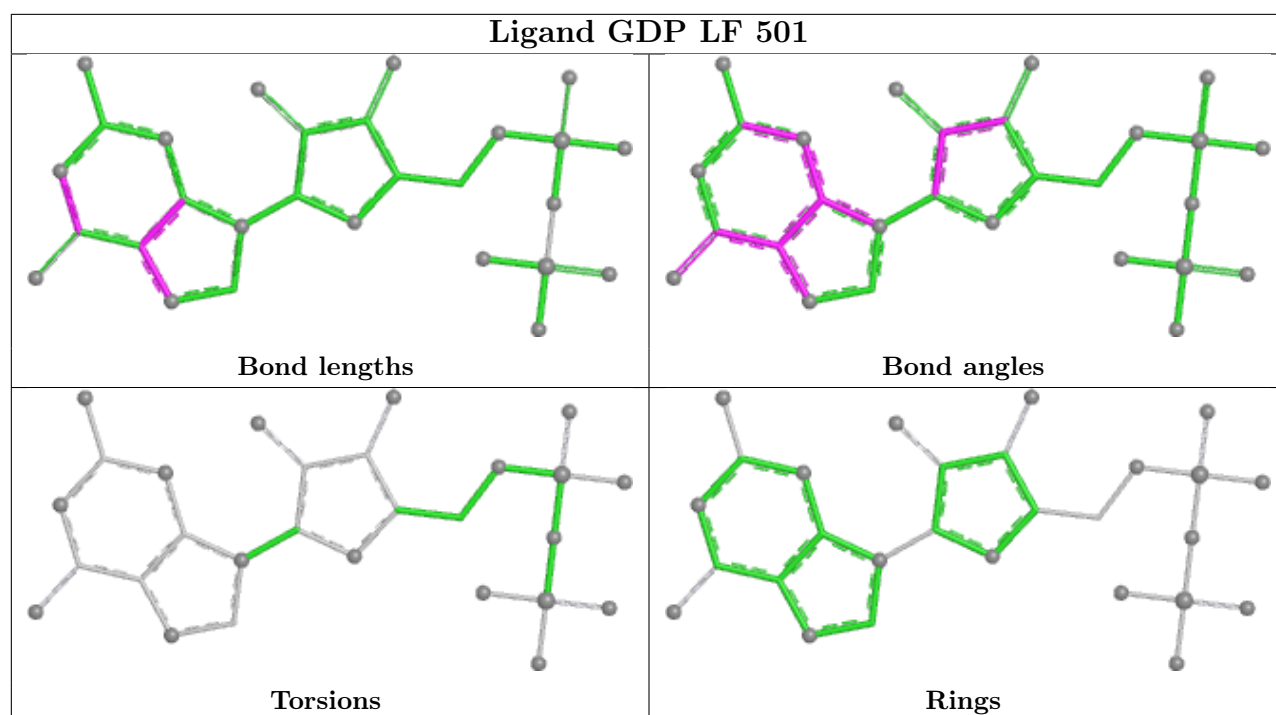
Ligand GTP HC 501



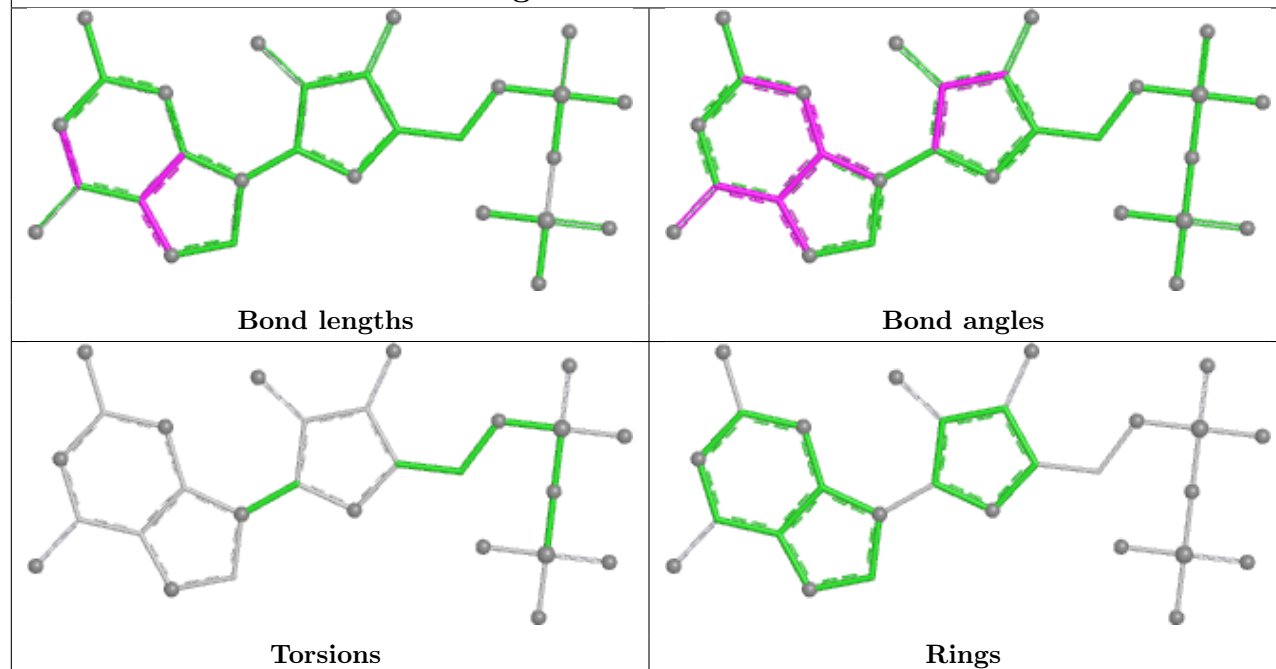
Ligand GDP DF 501



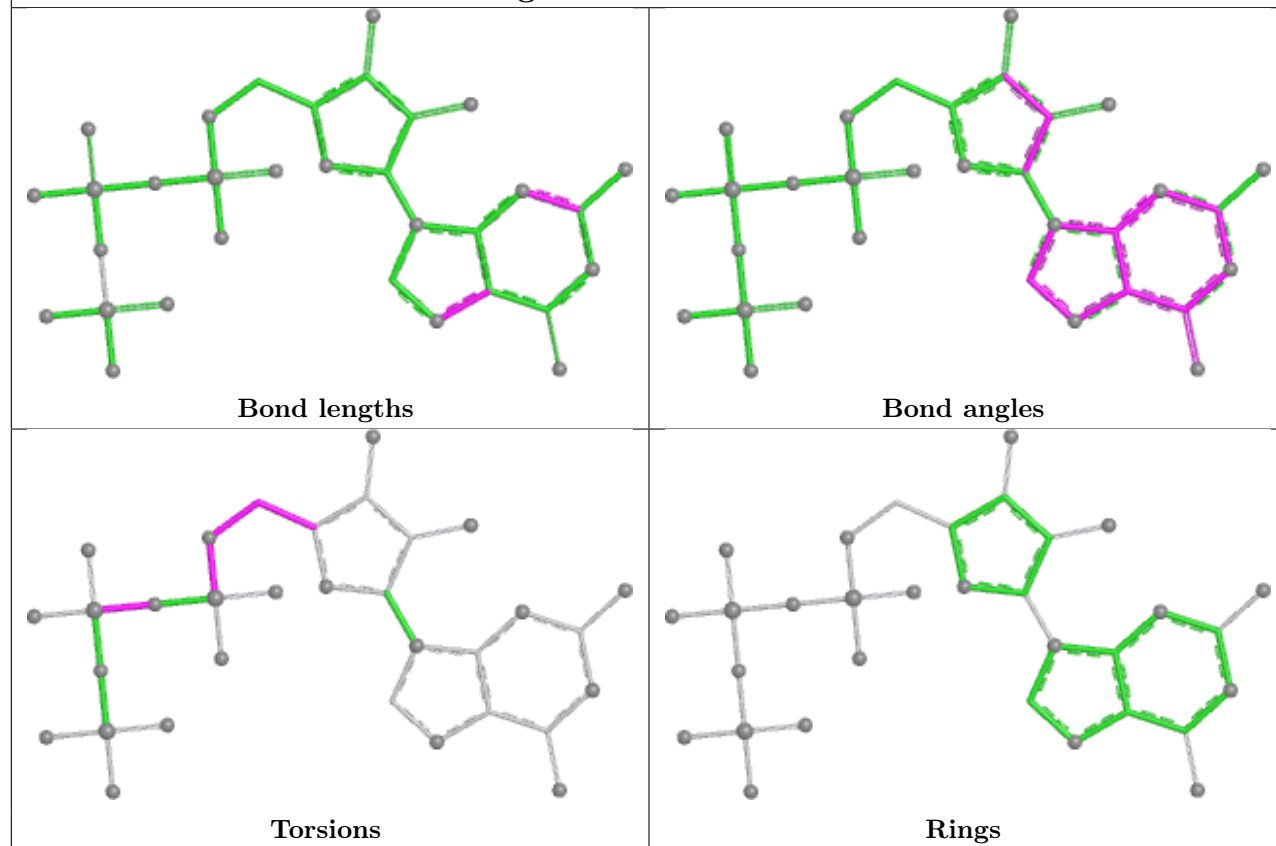


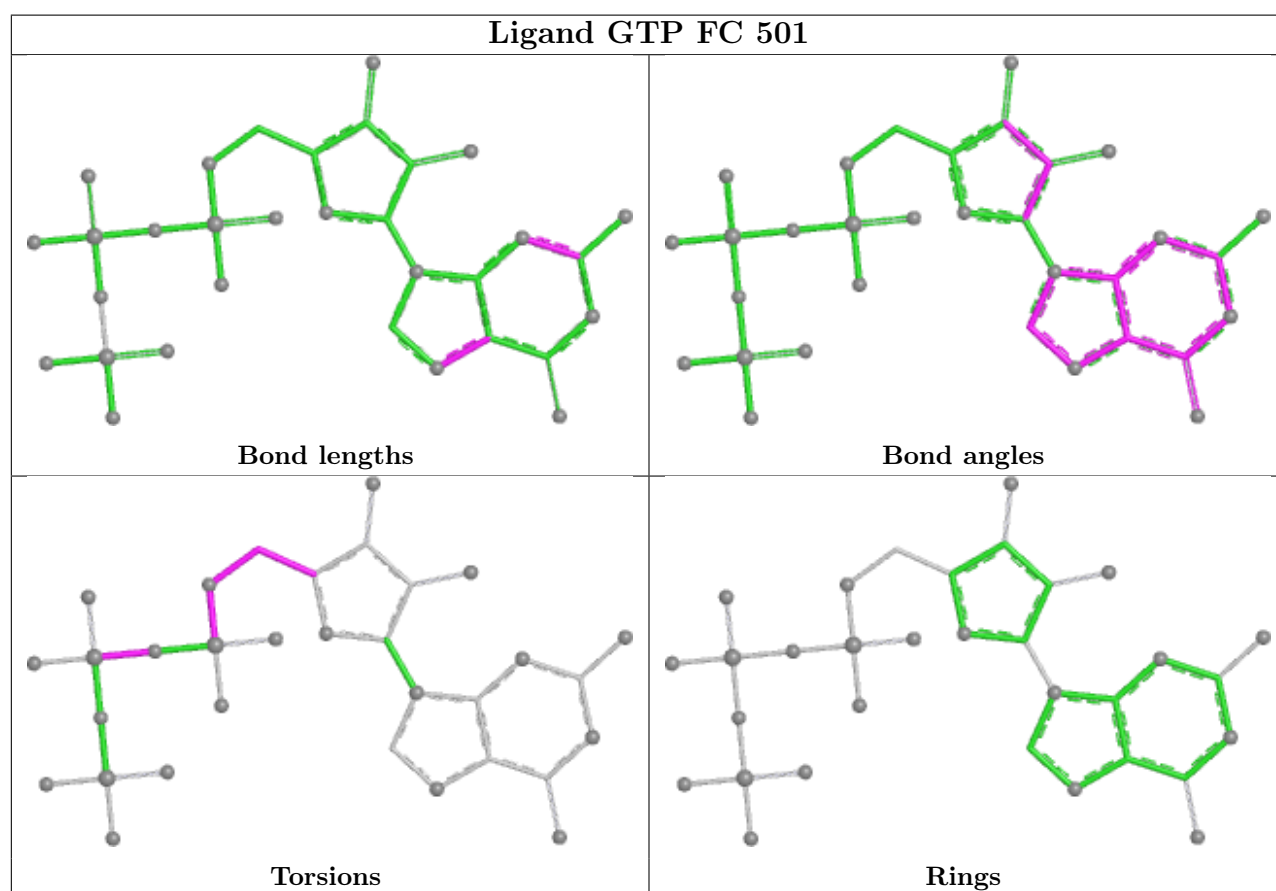
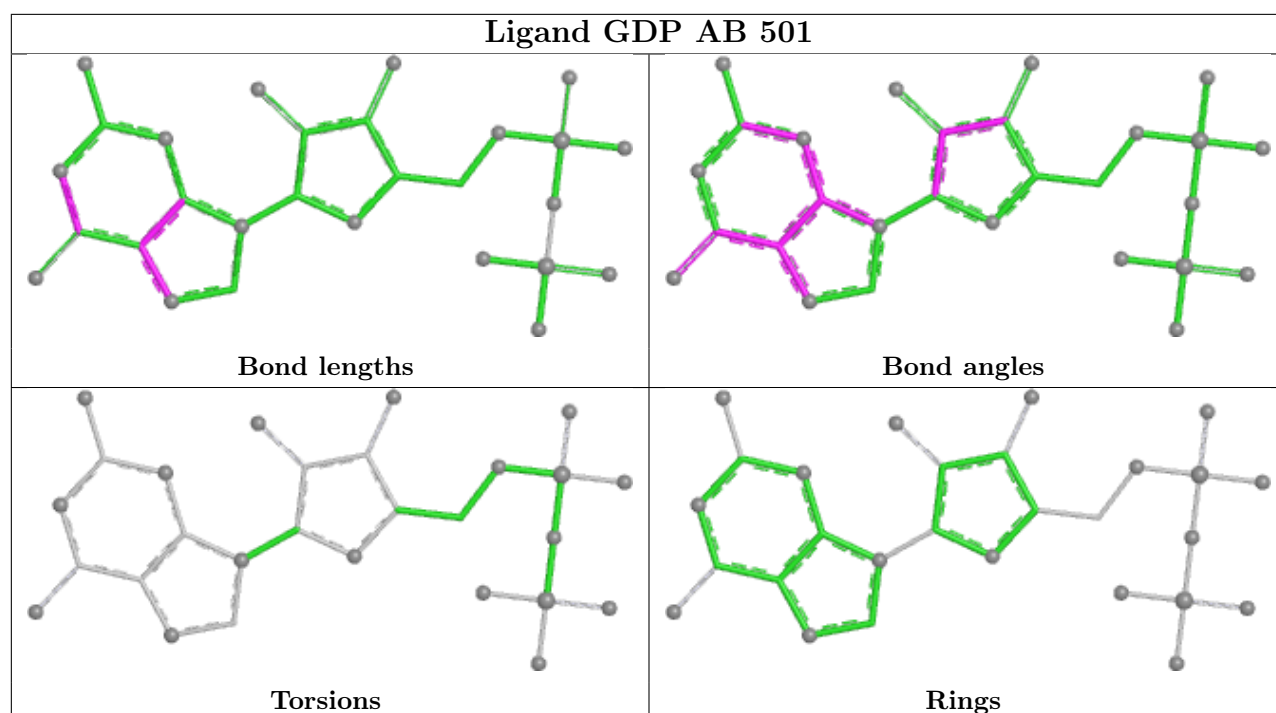


Ligand GDP MB 502

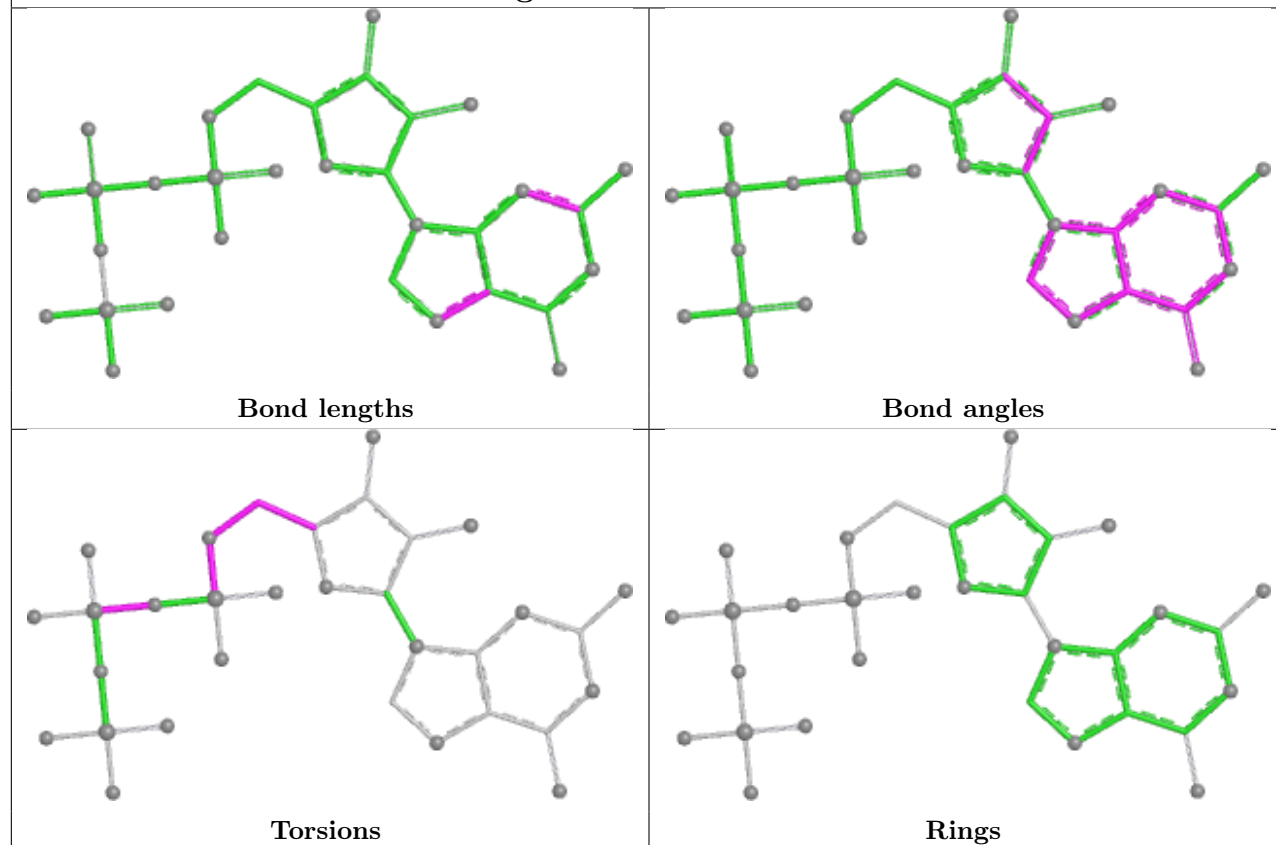


Ligand GTP CC 501

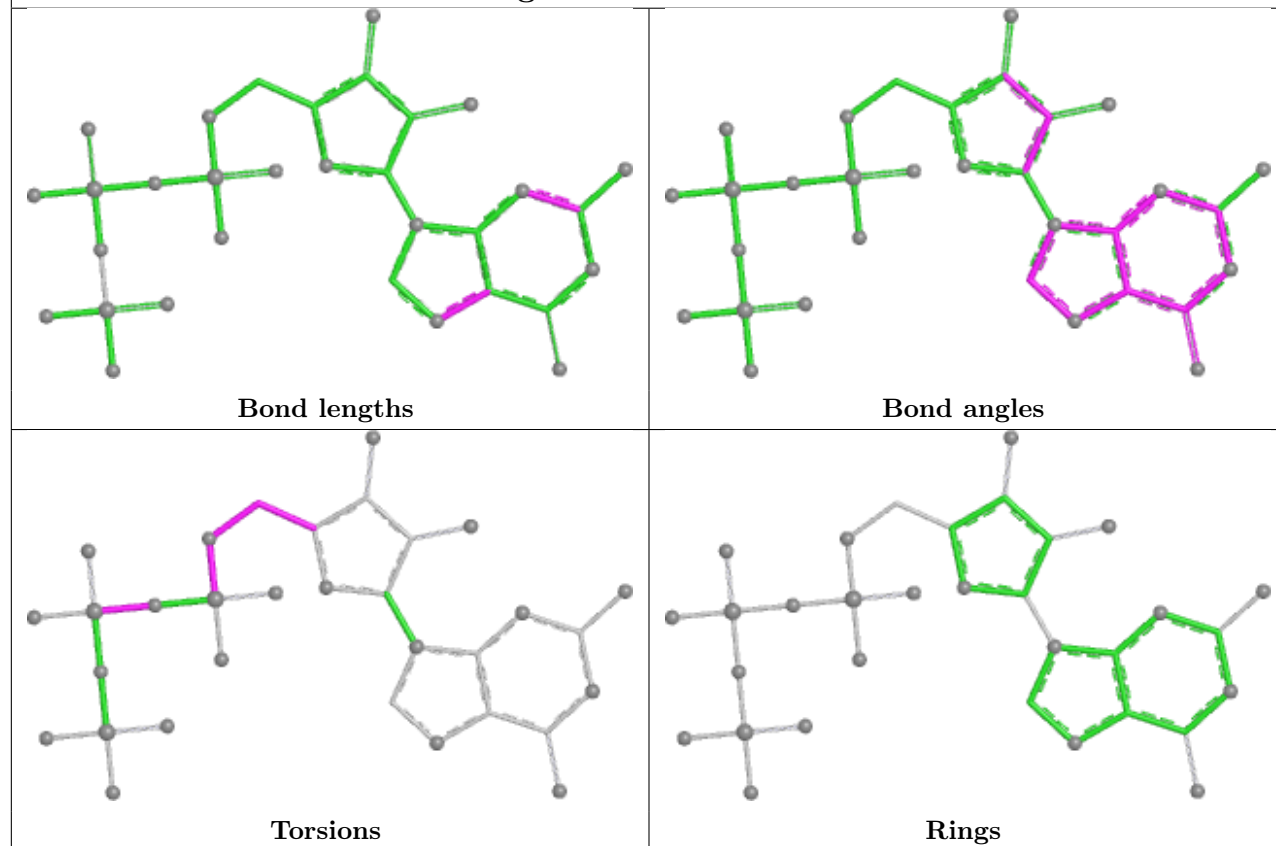


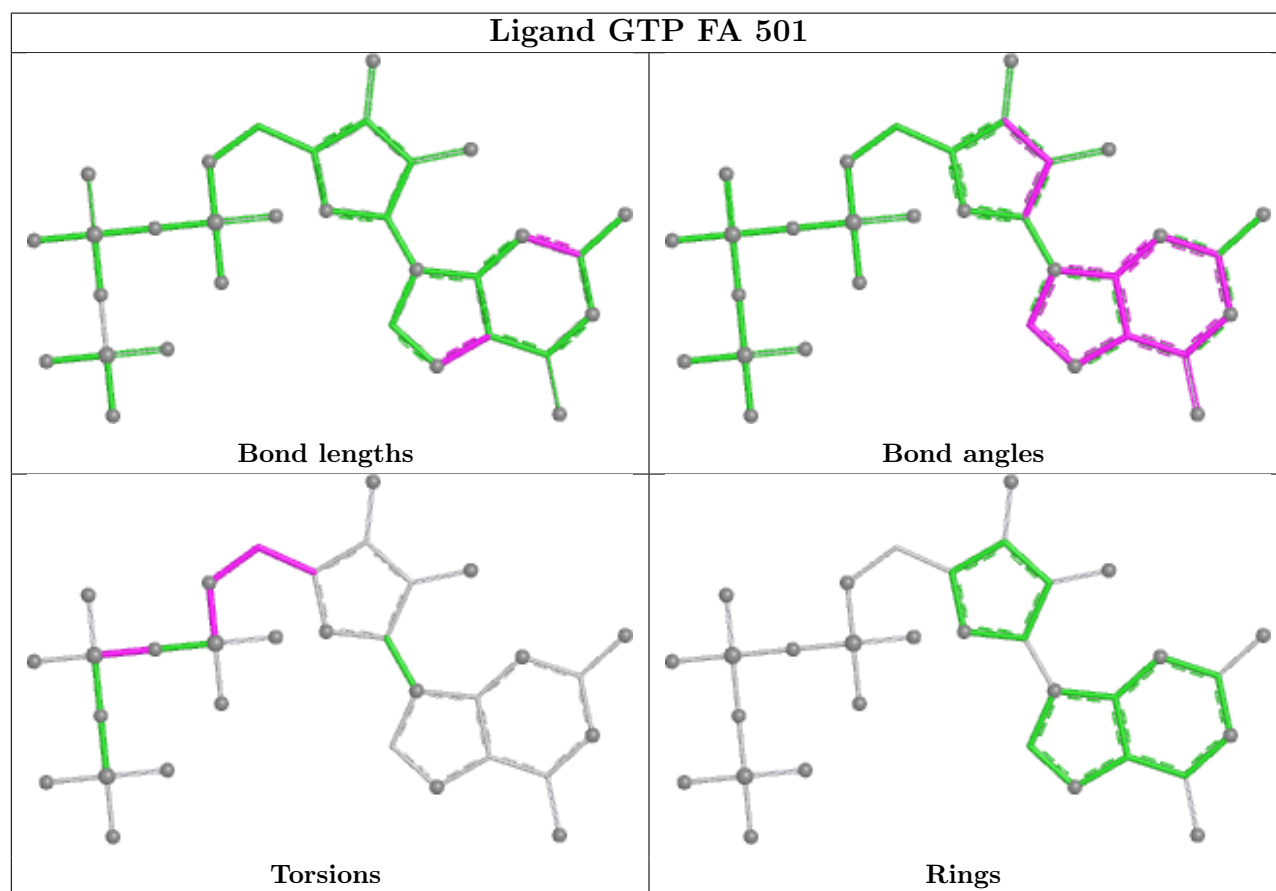
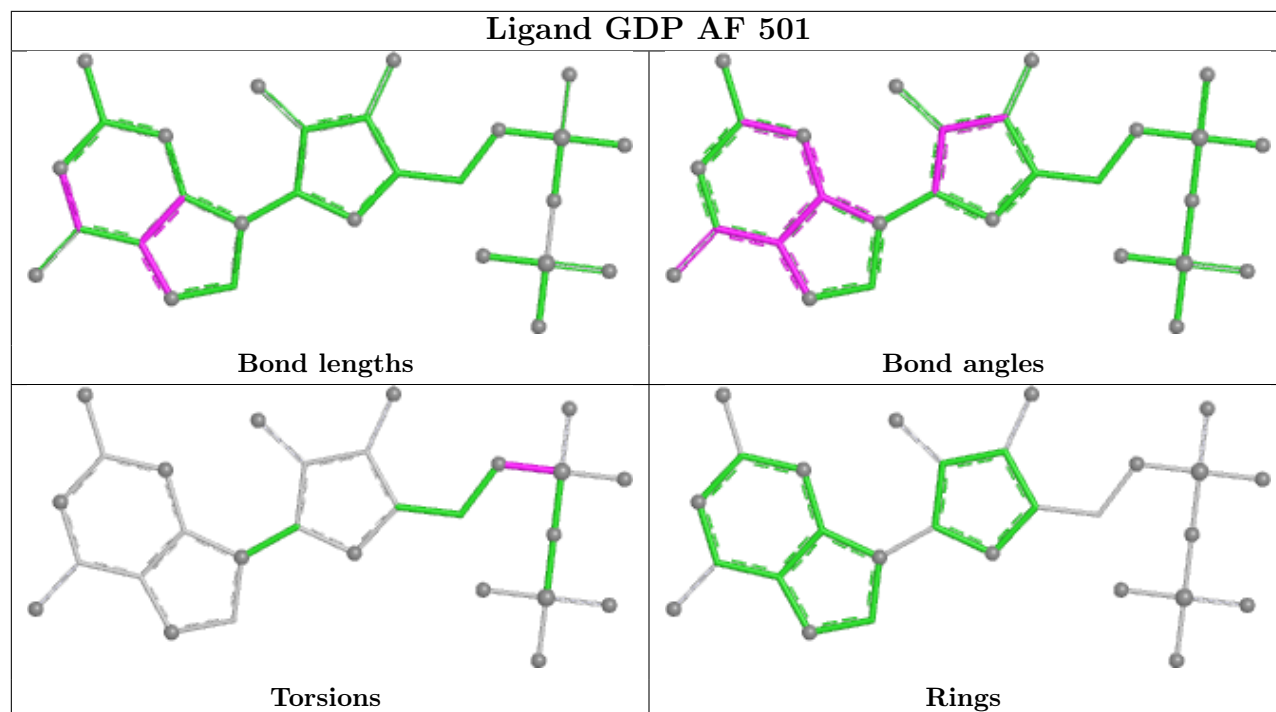


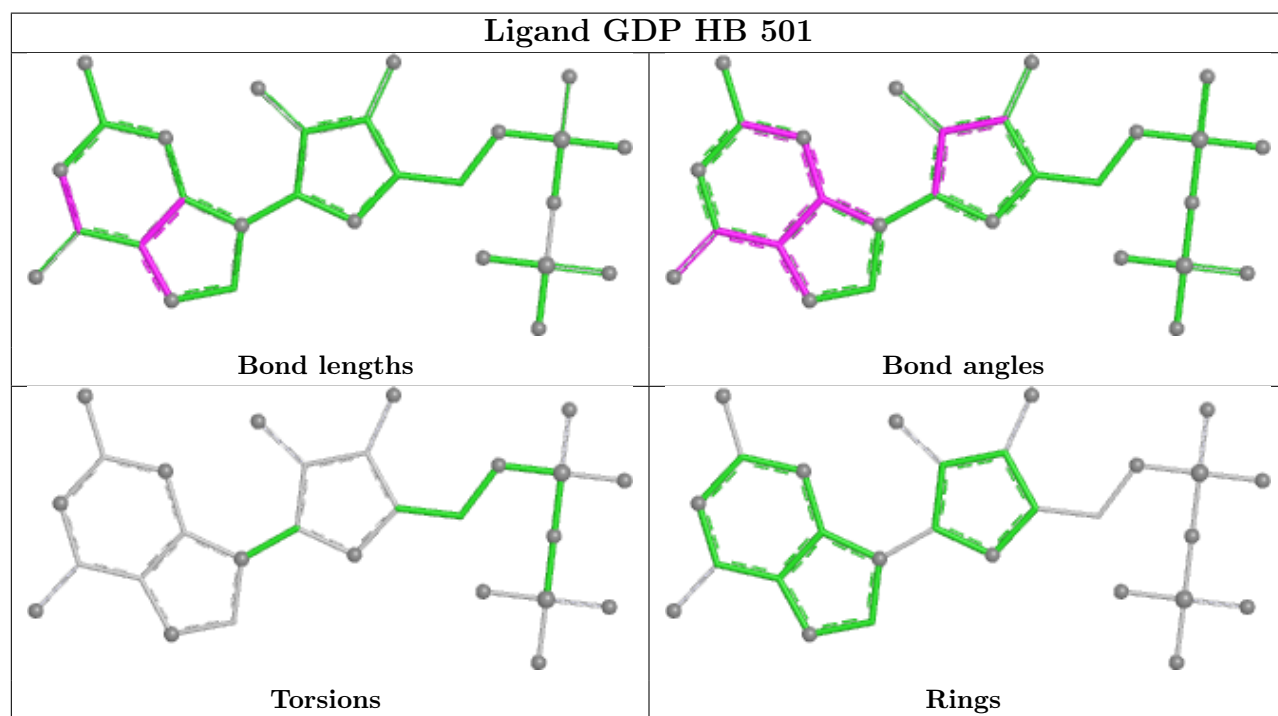
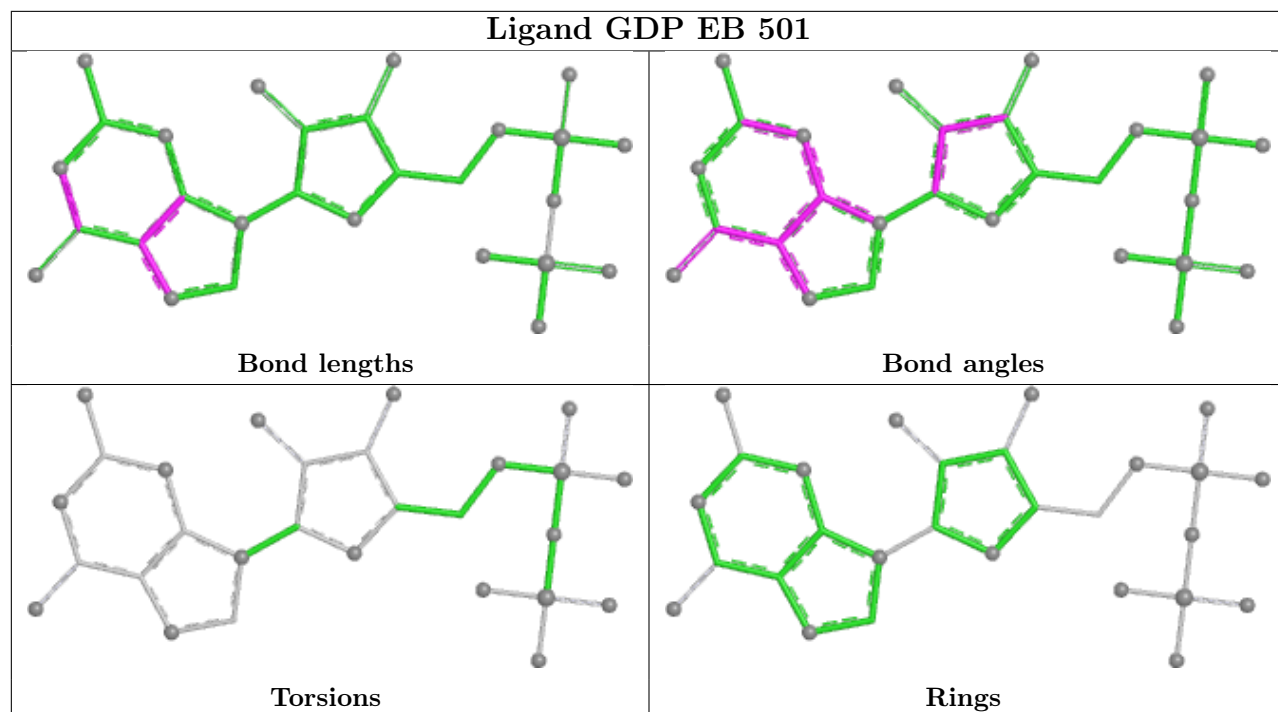
Ligand GTP KA 501



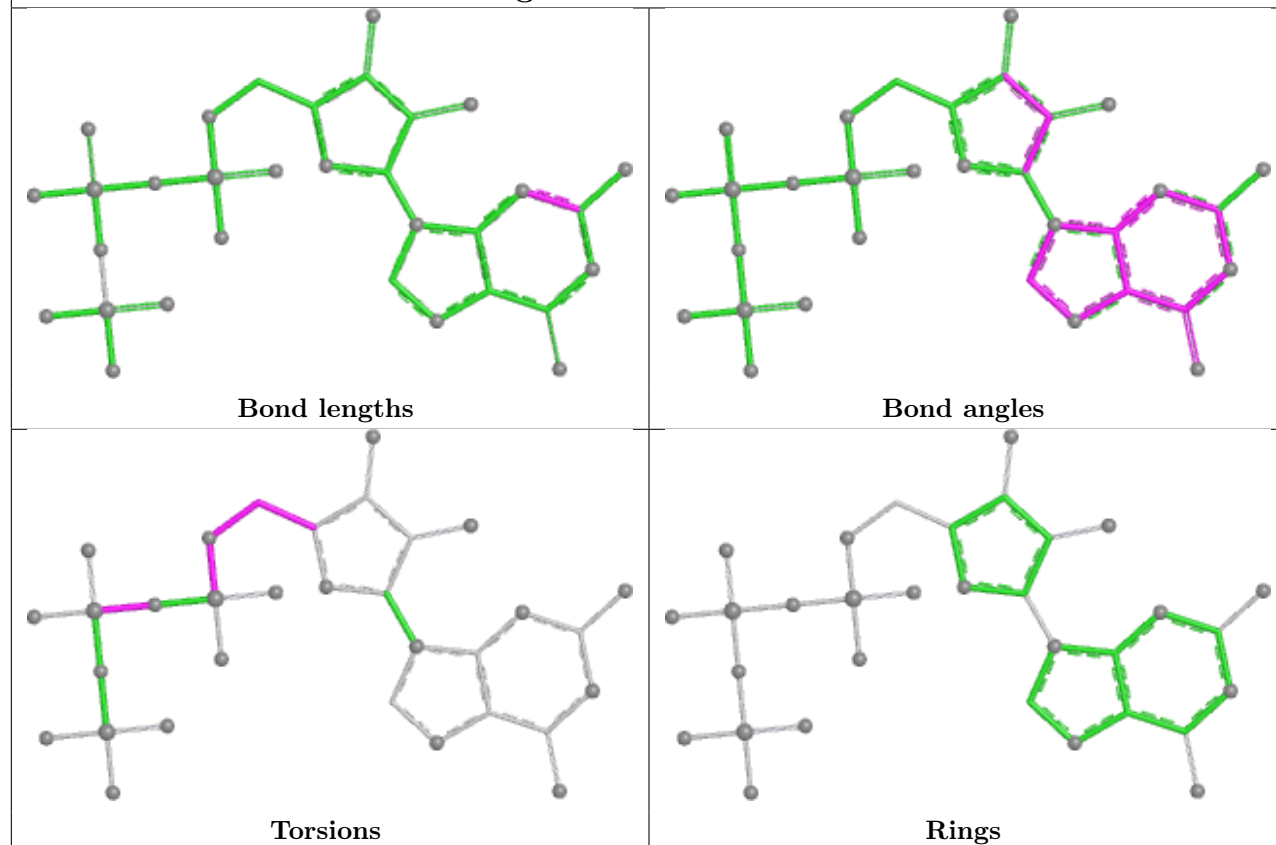
Ligand GTP GE 501



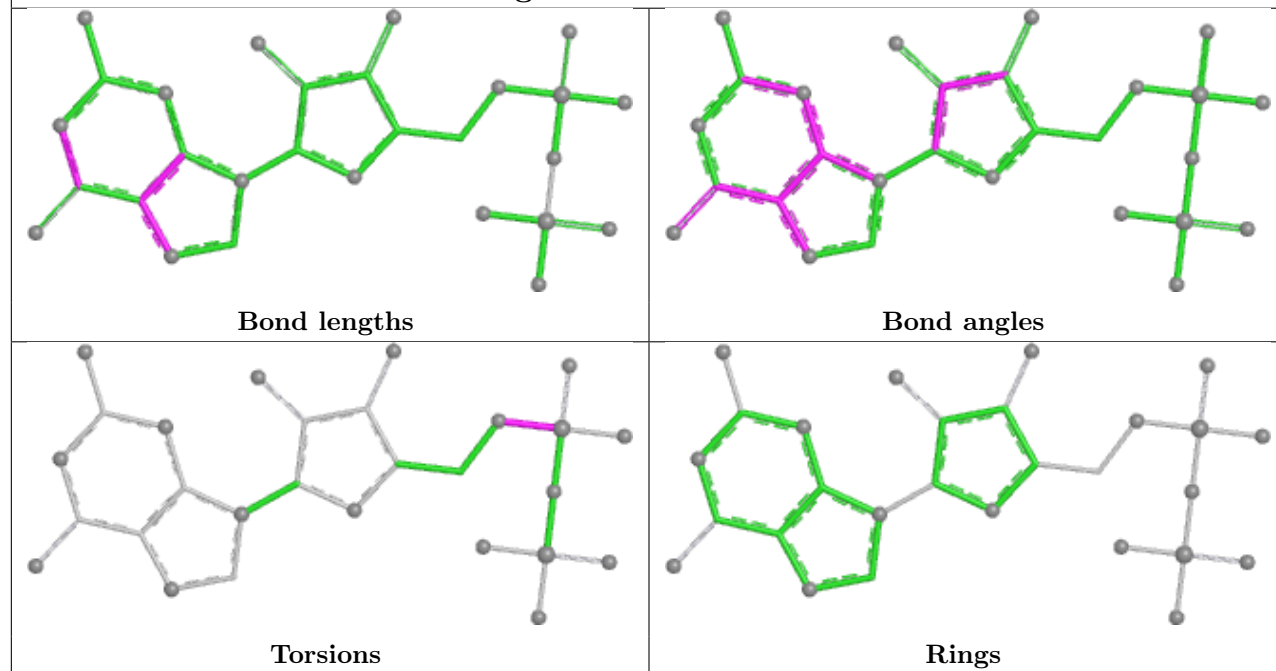


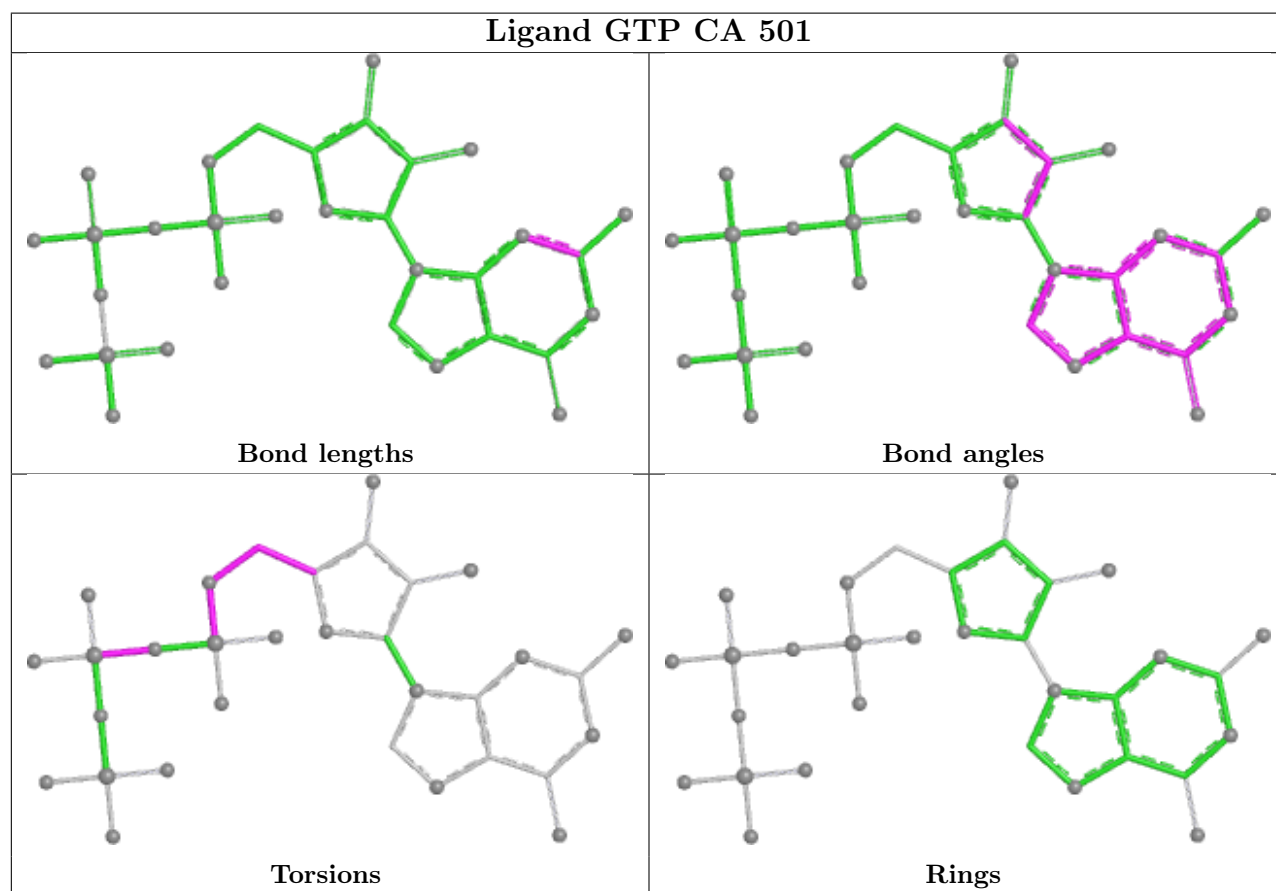
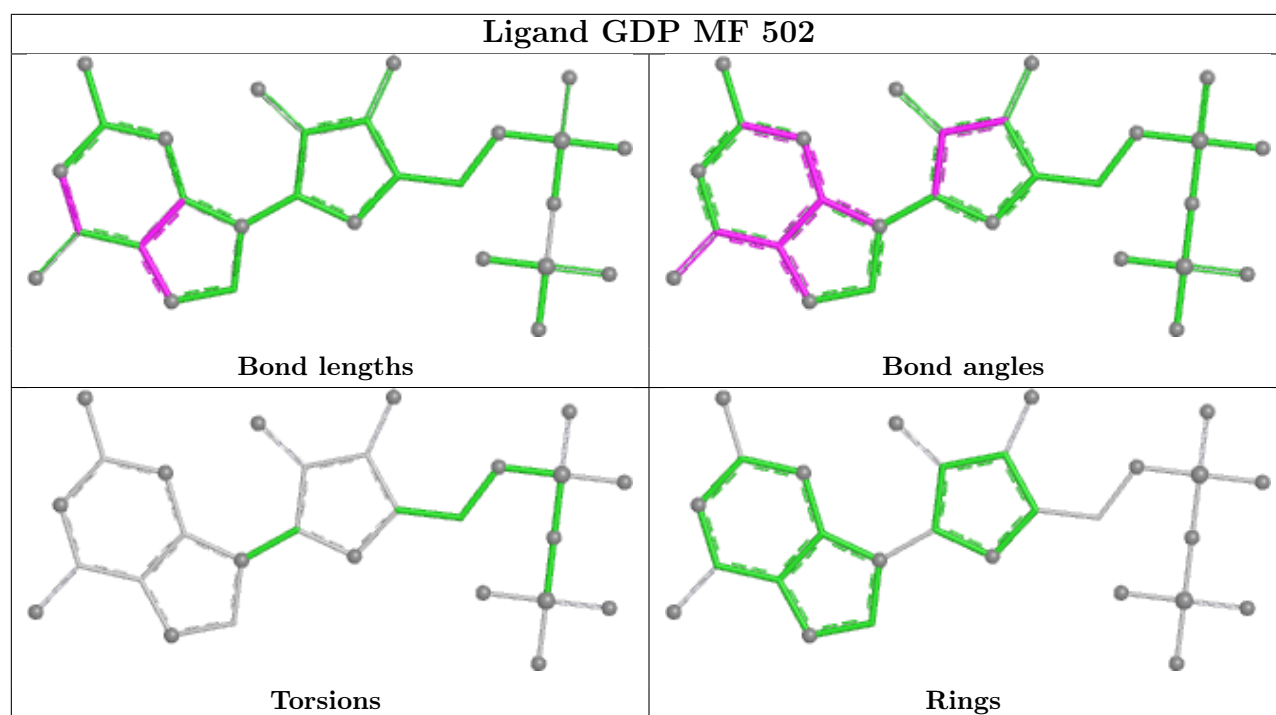


Ligand GTP HA 501

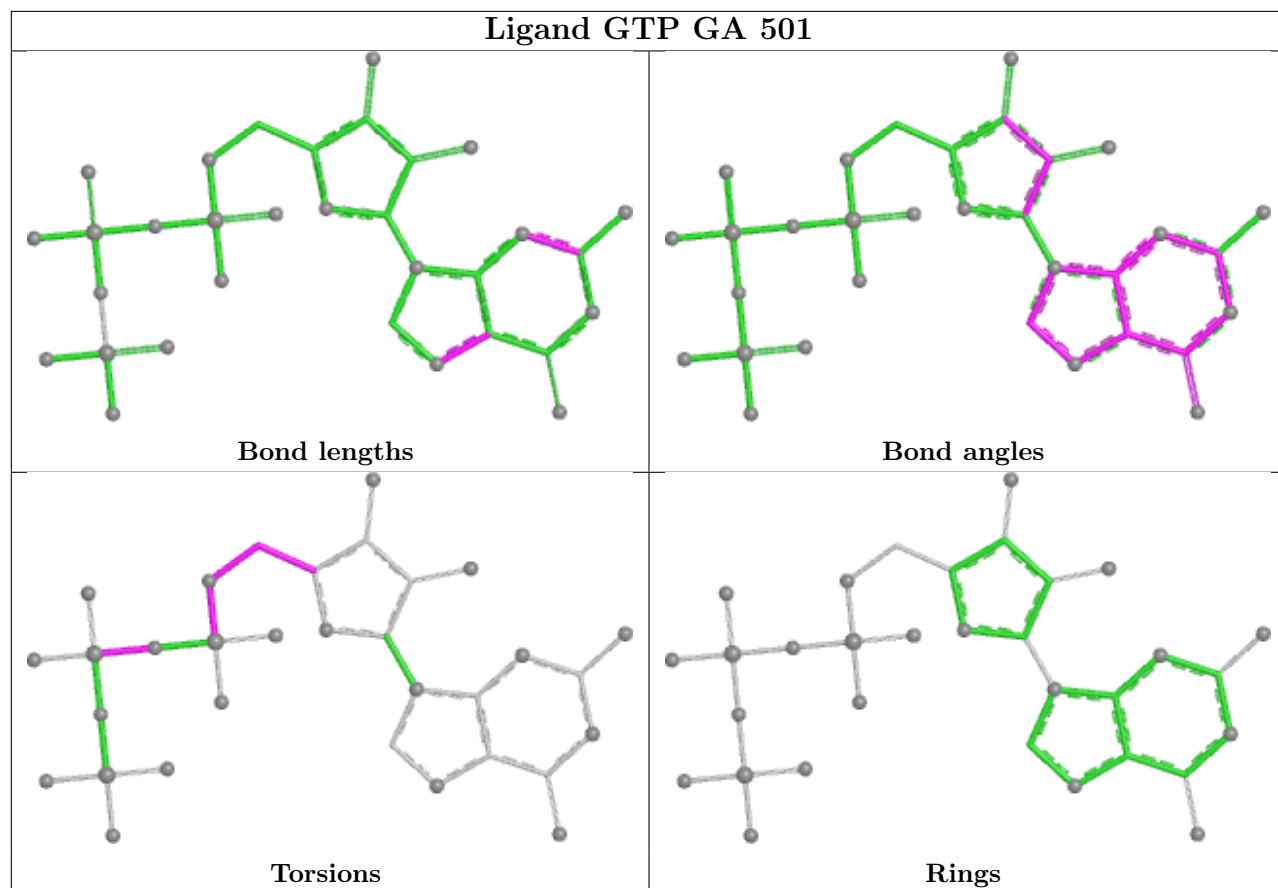


Ligand GDP DD 501

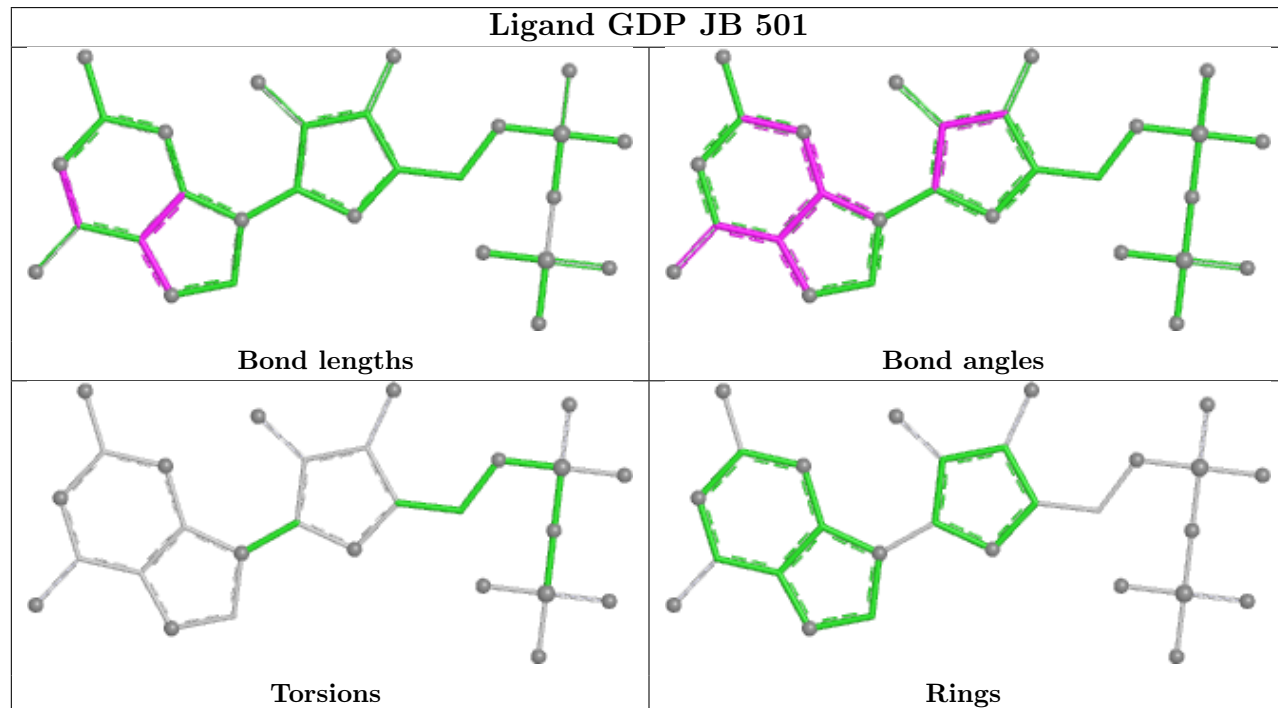


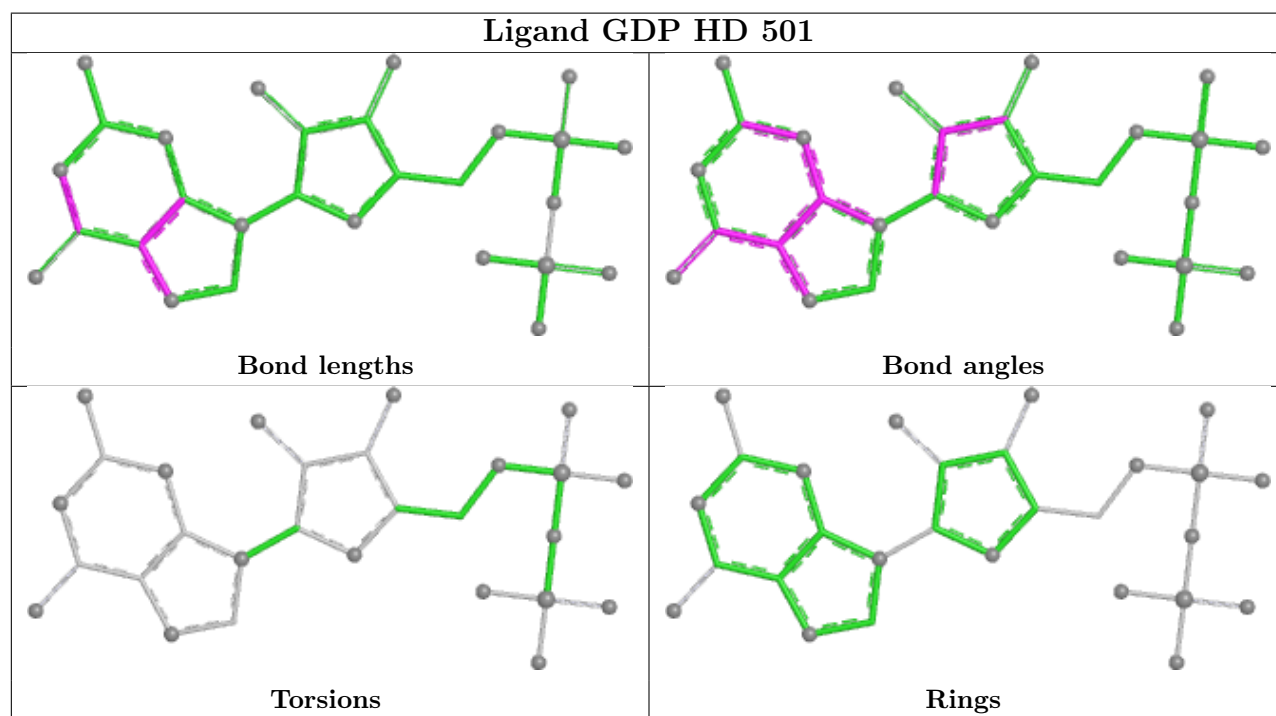
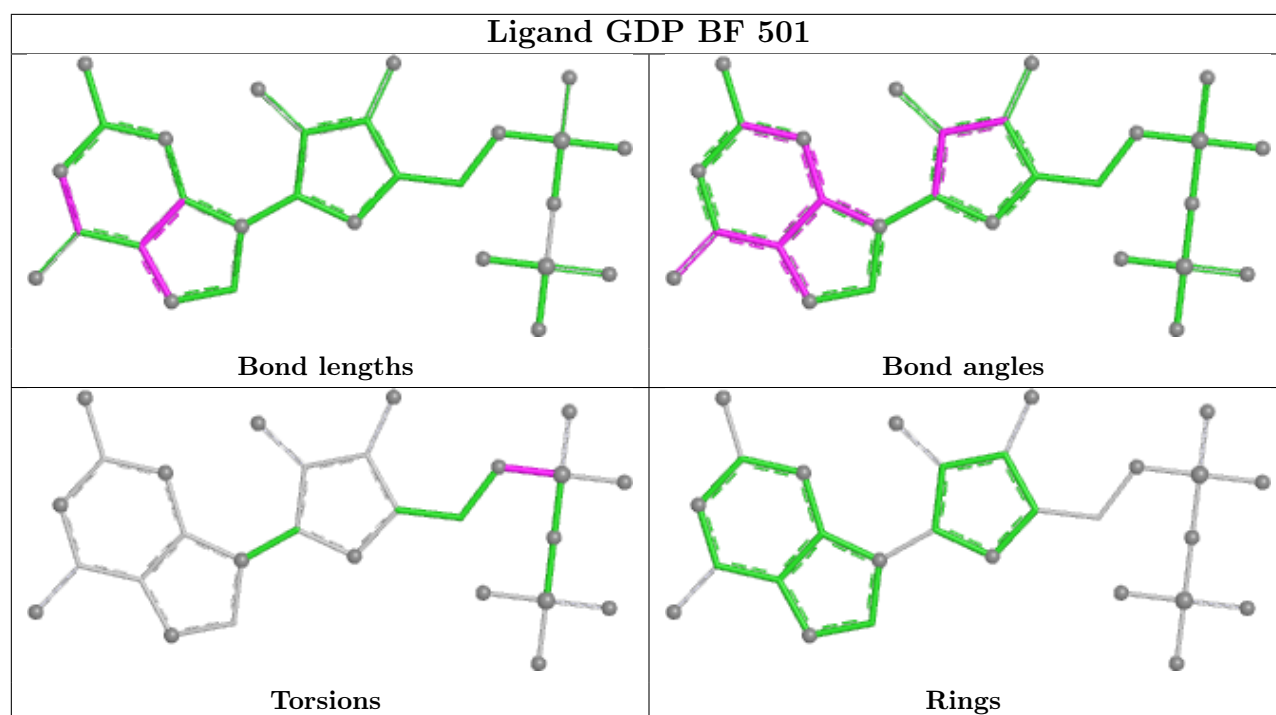


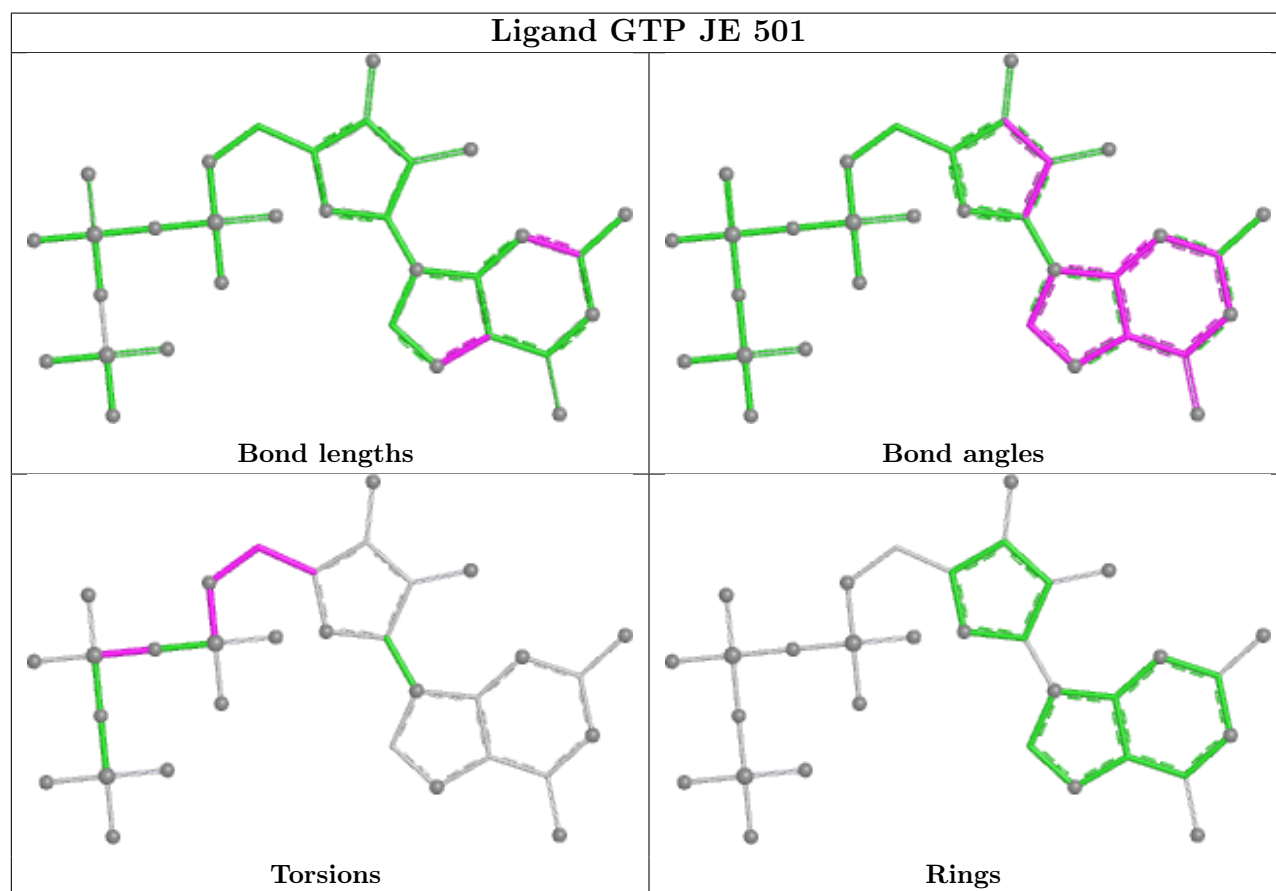
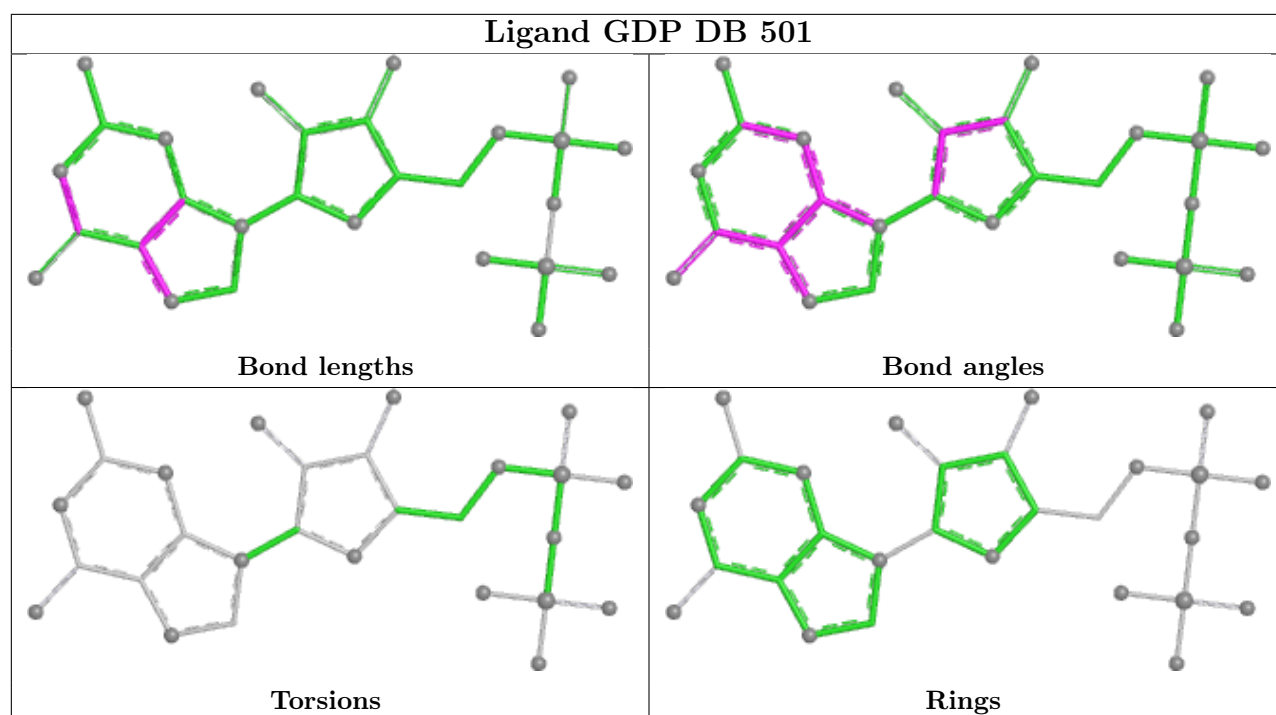
Ligand GTP GA 501



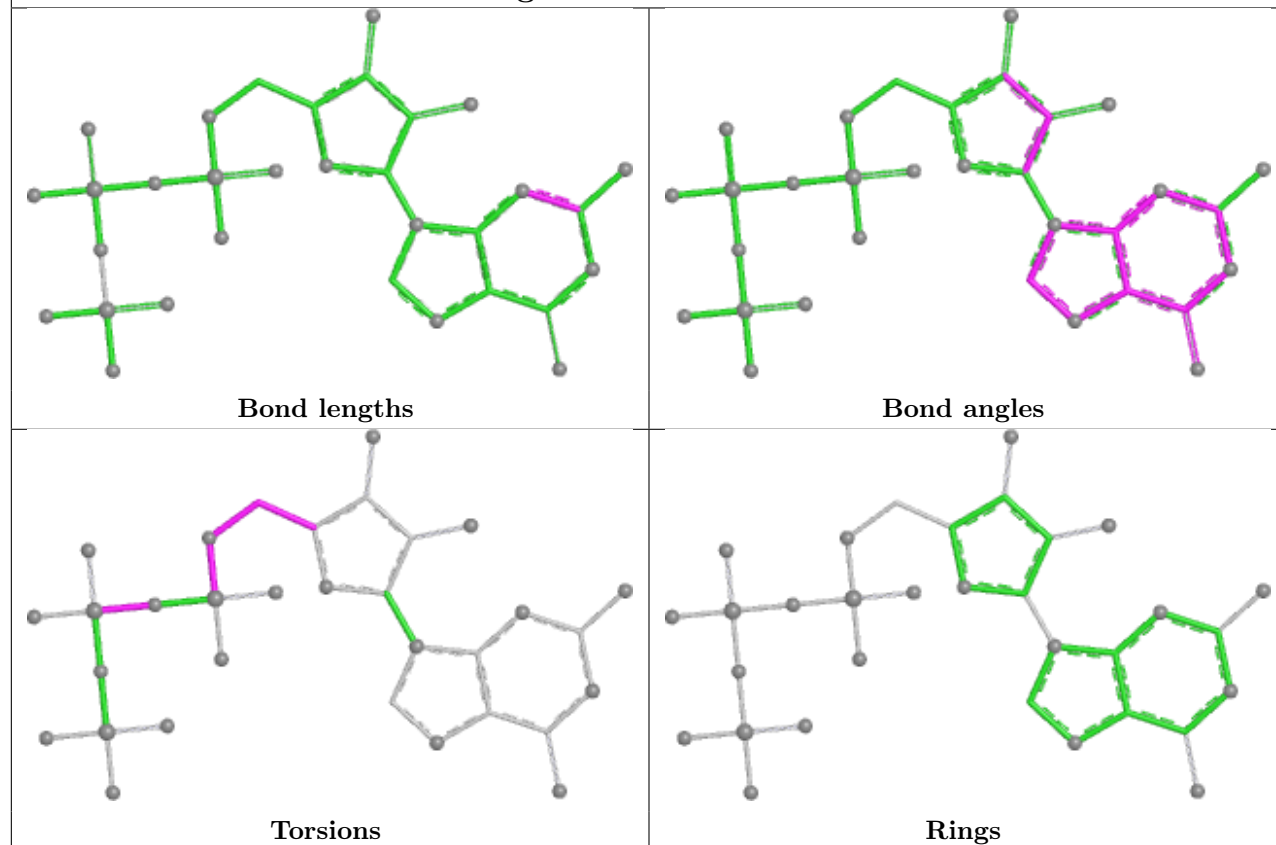
Ligand GDP JB 501



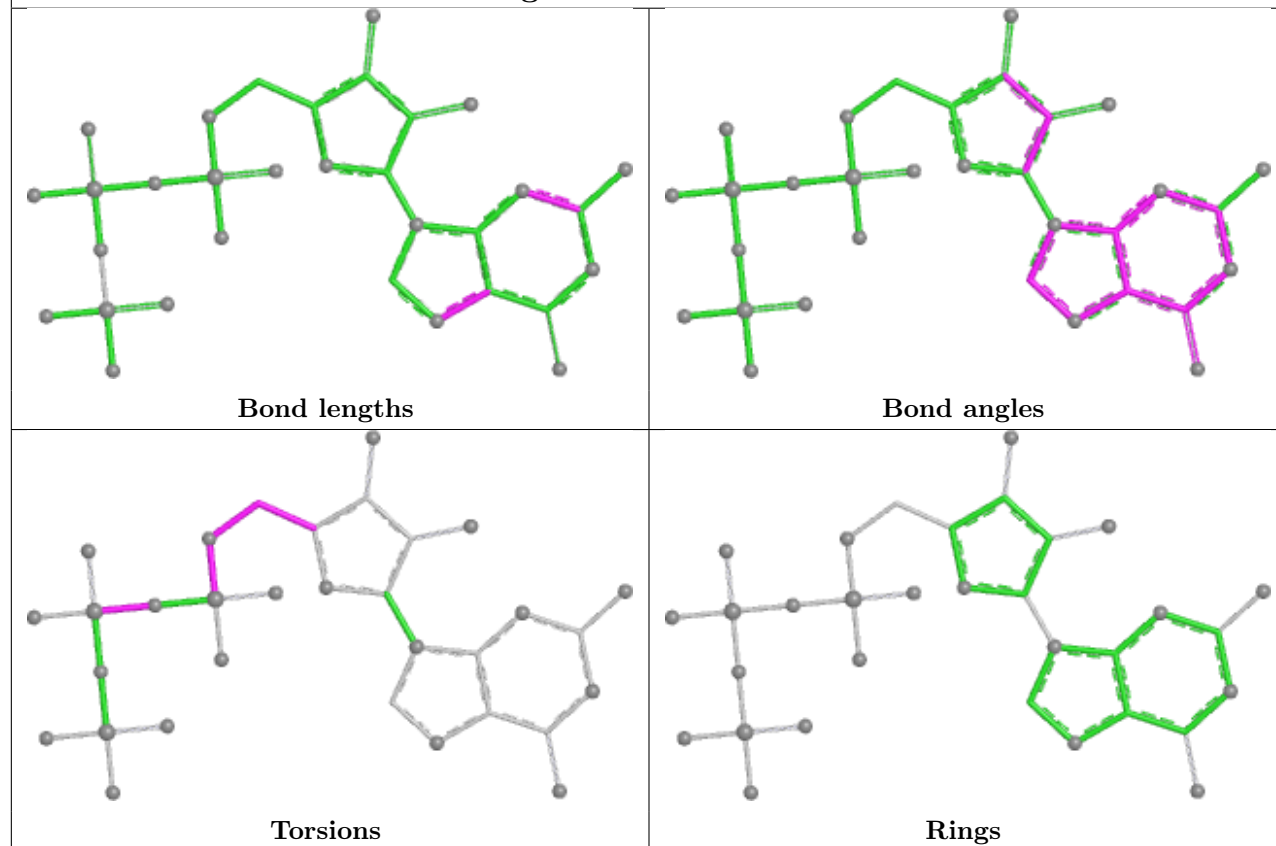


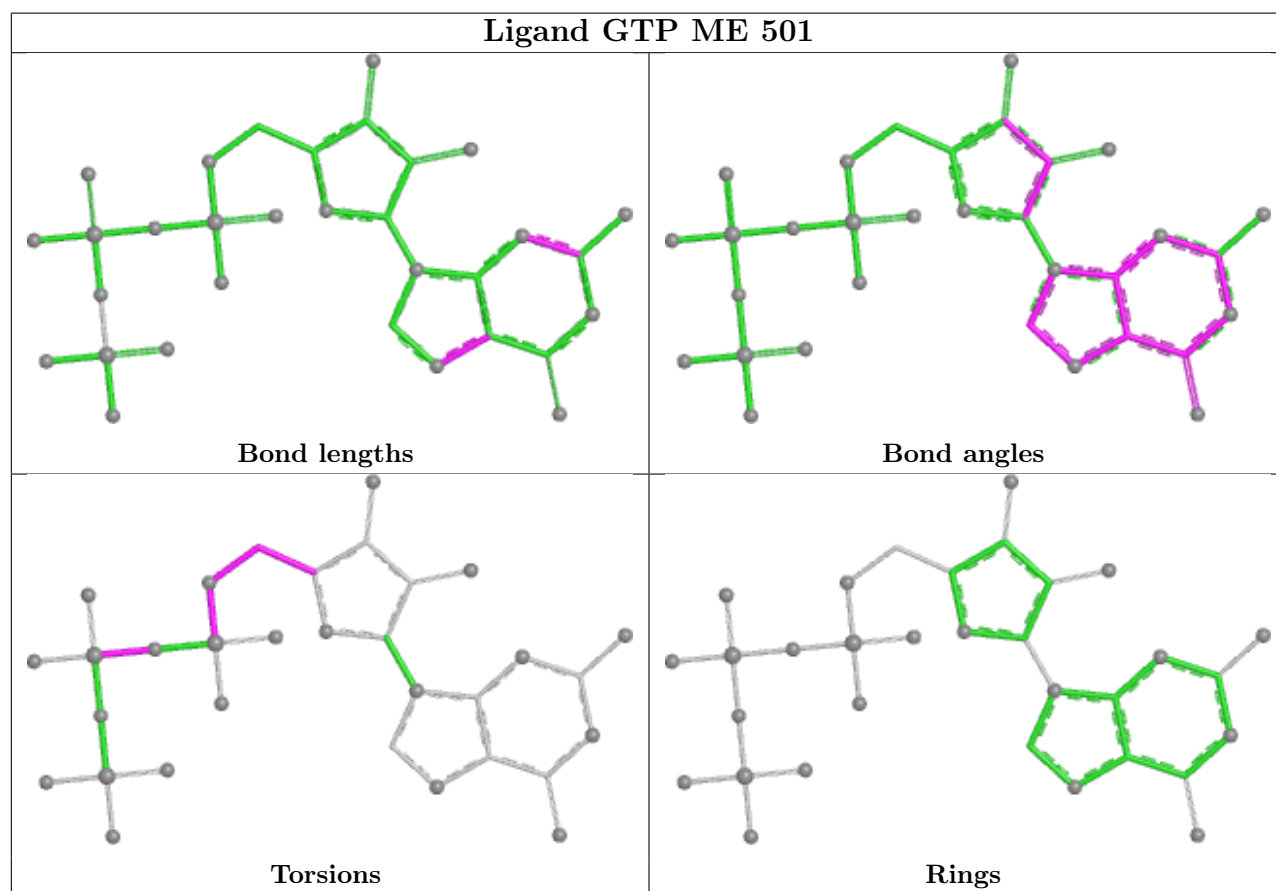
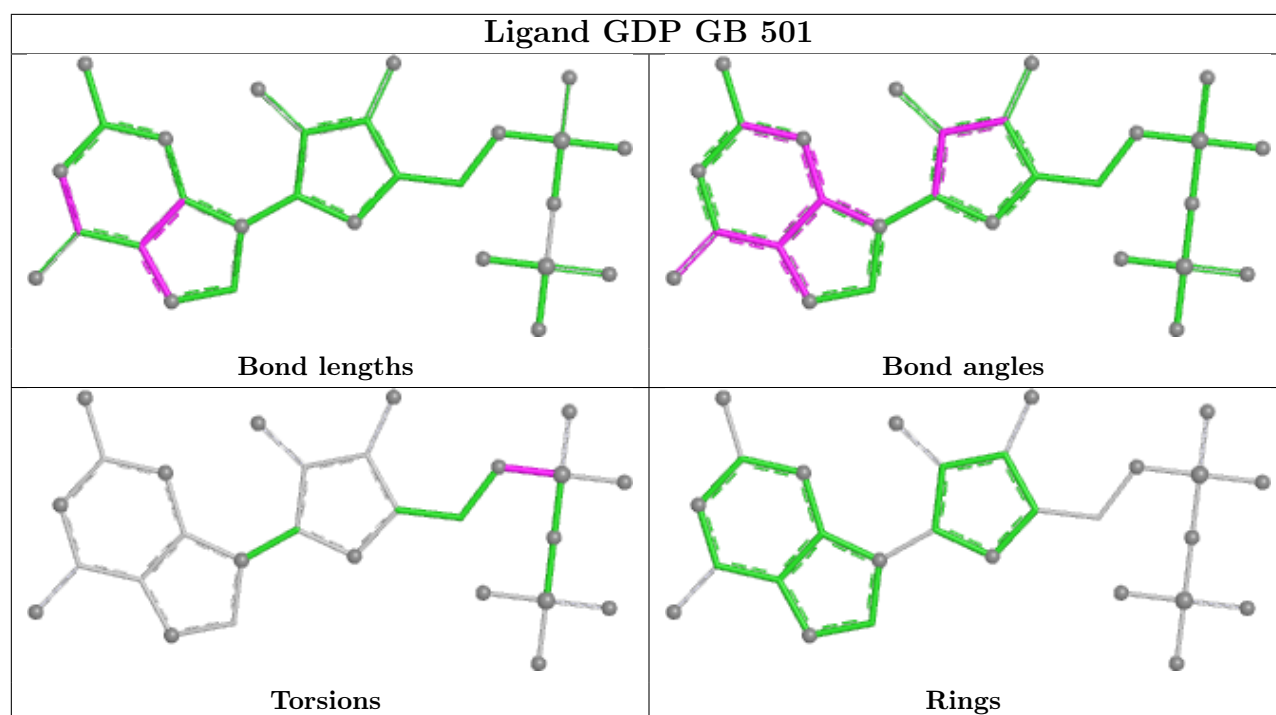


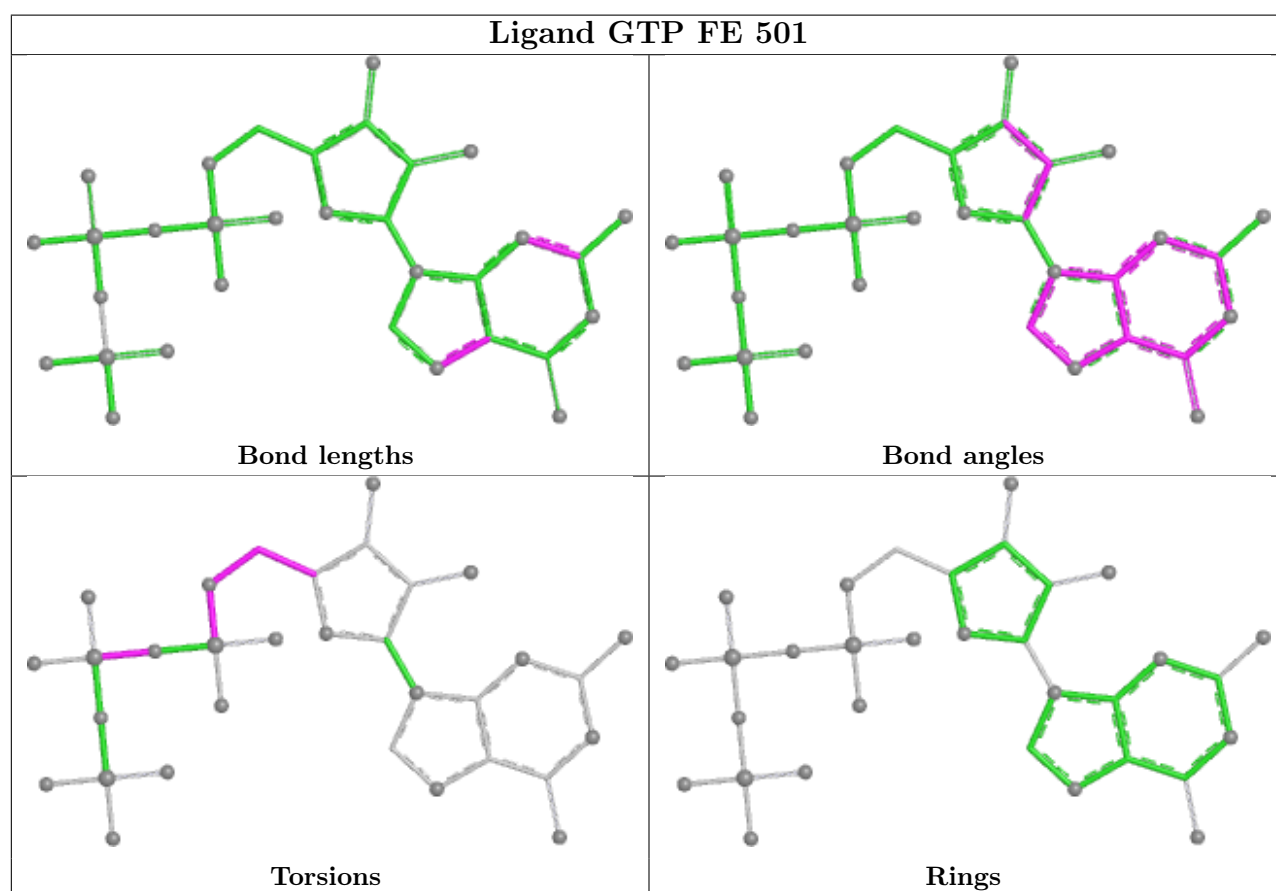
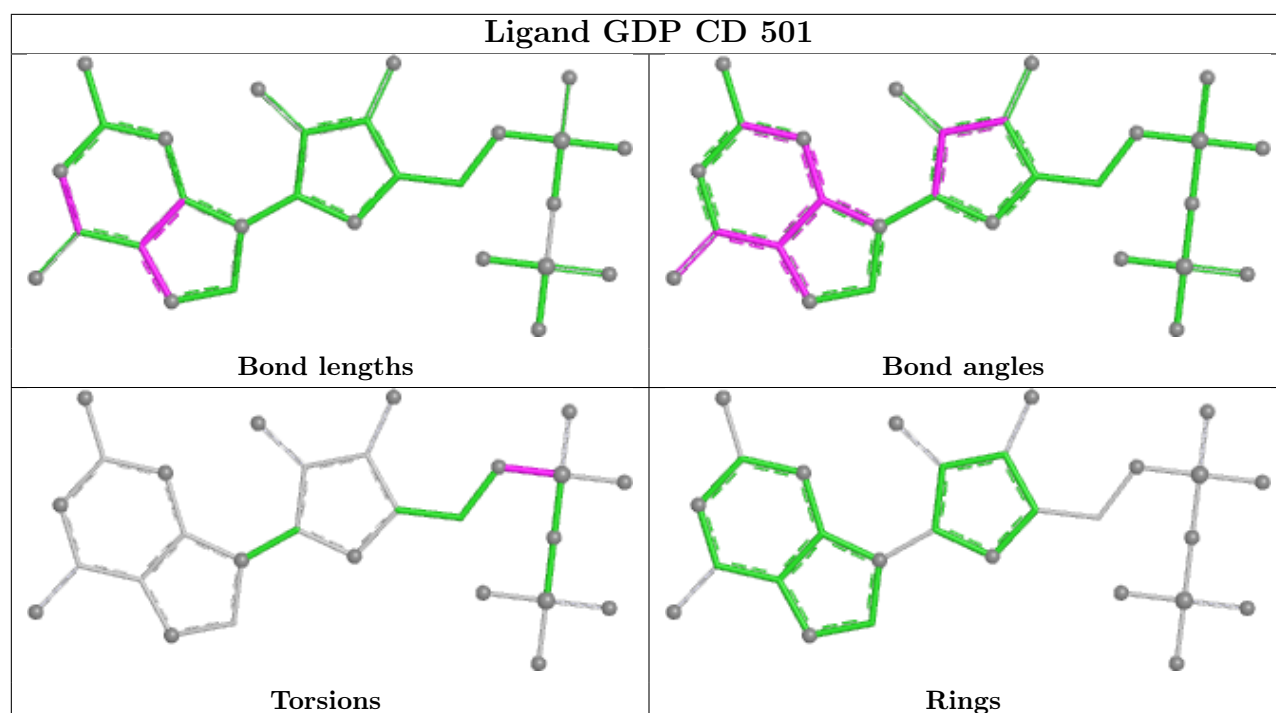
Ligand GTP DC 501



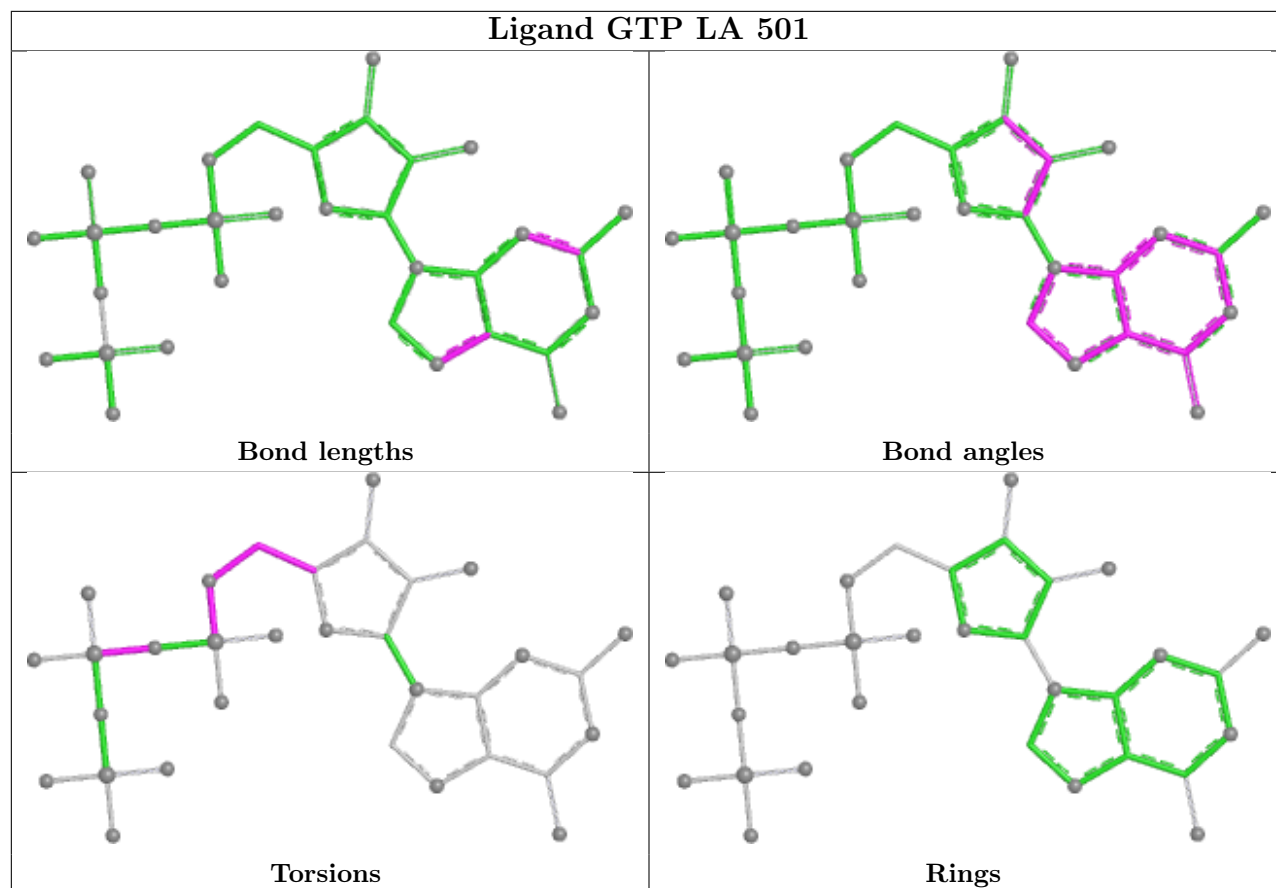
Ligand GTP JA 501



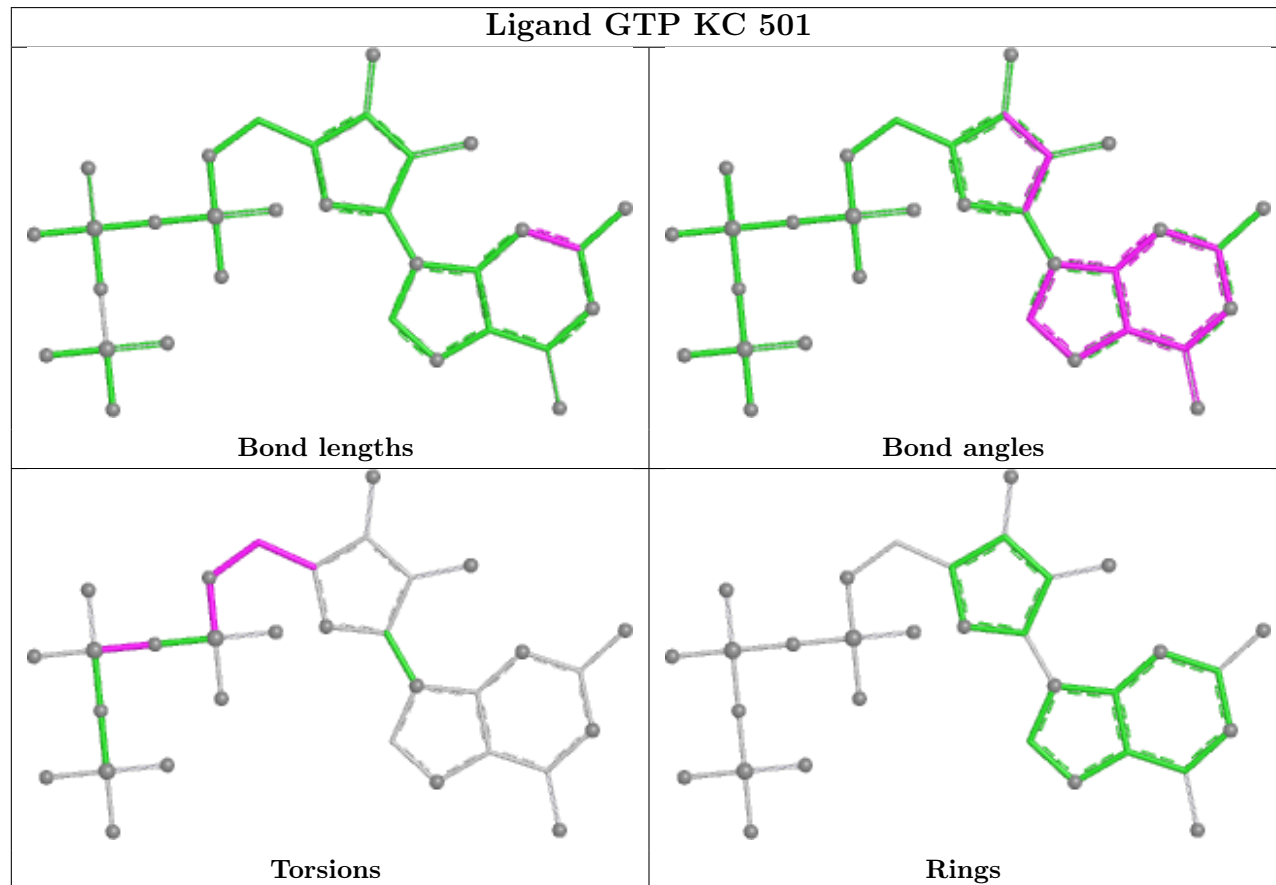




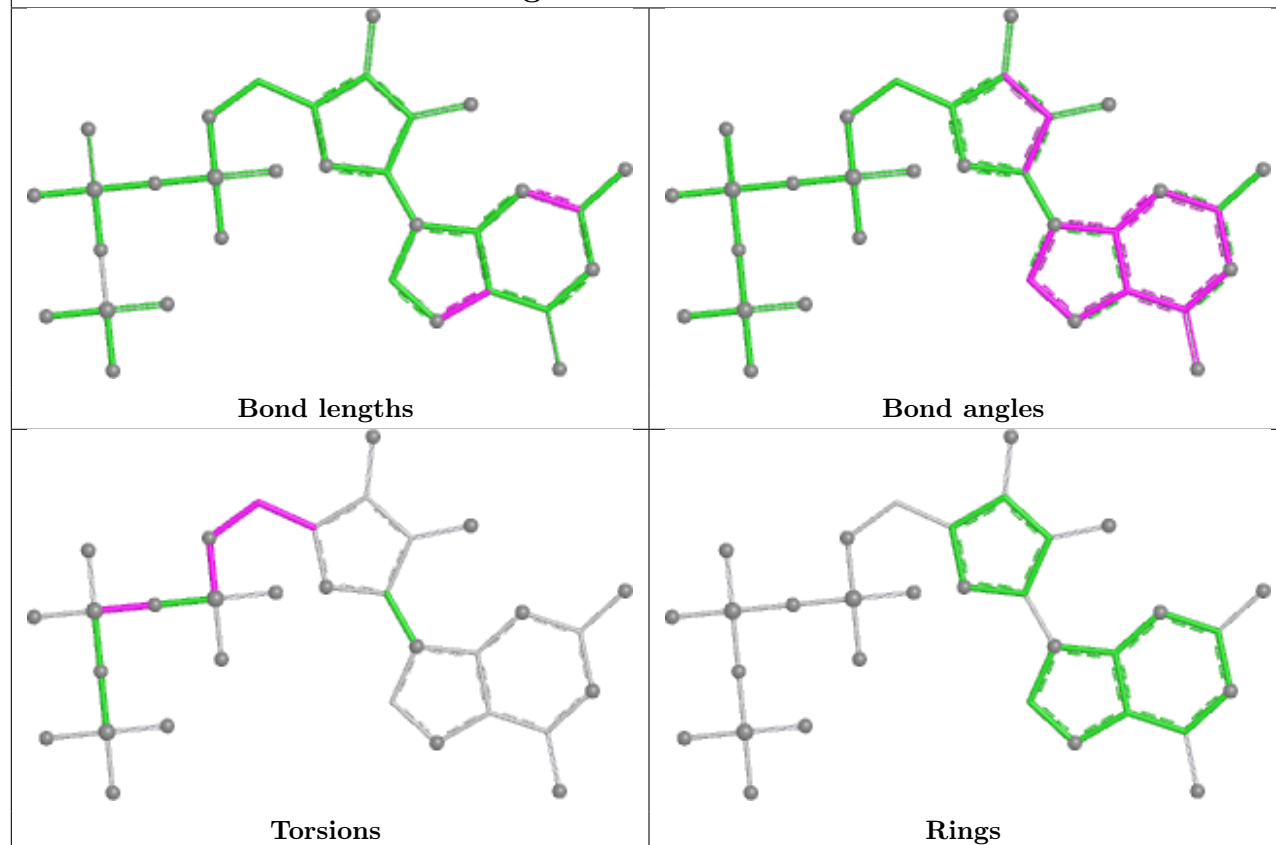
Ligand GTP LA 501



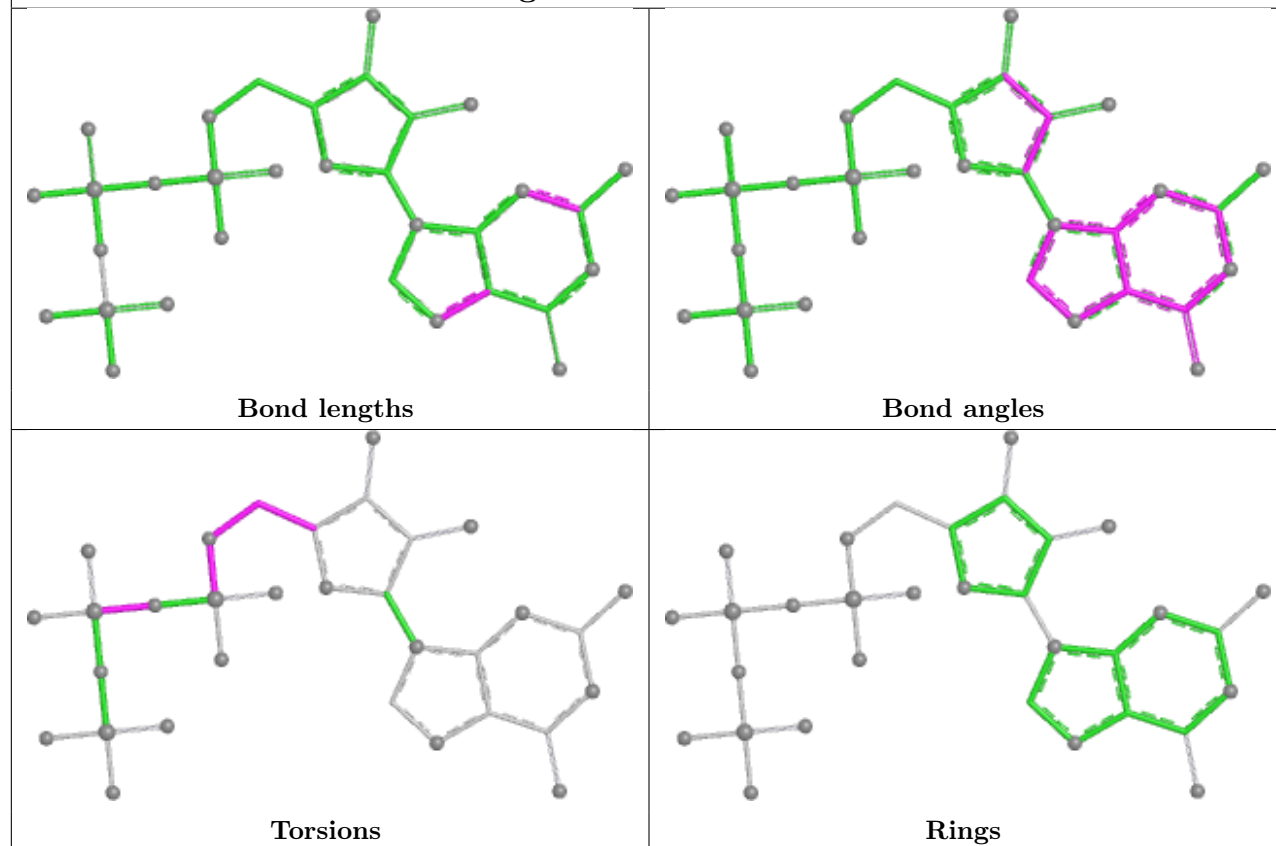
Ligand GTP KC 501

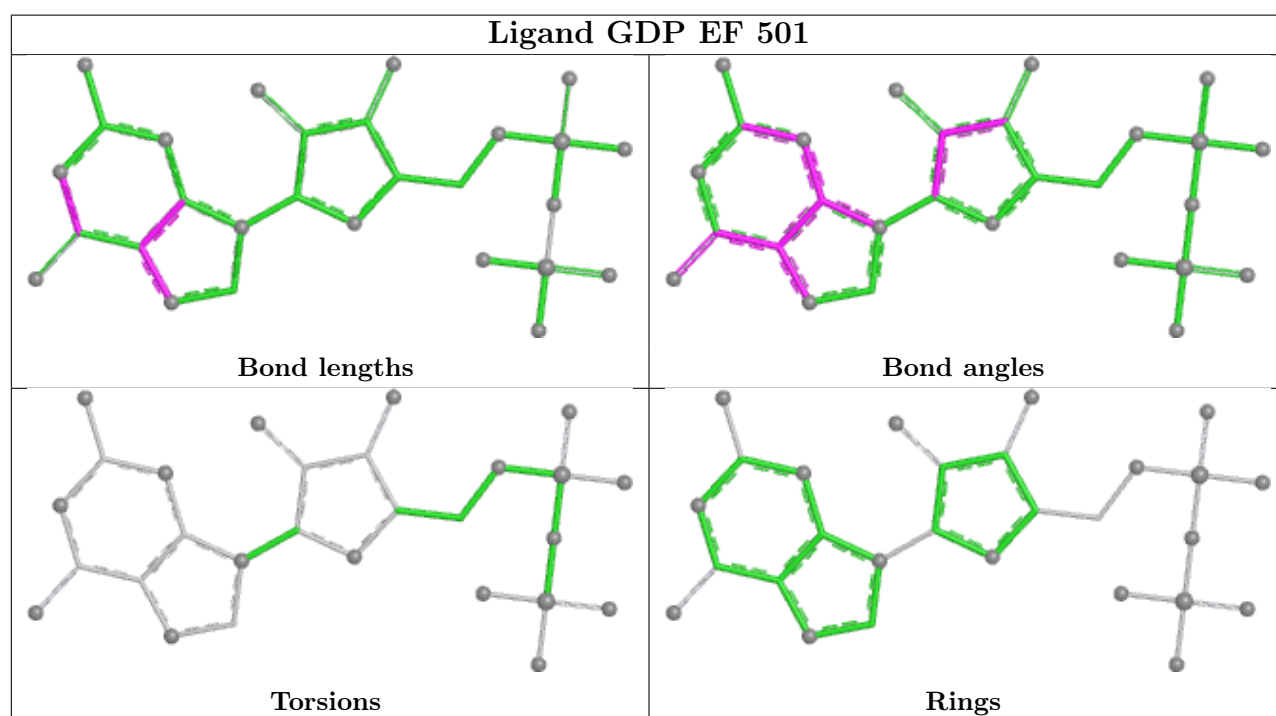
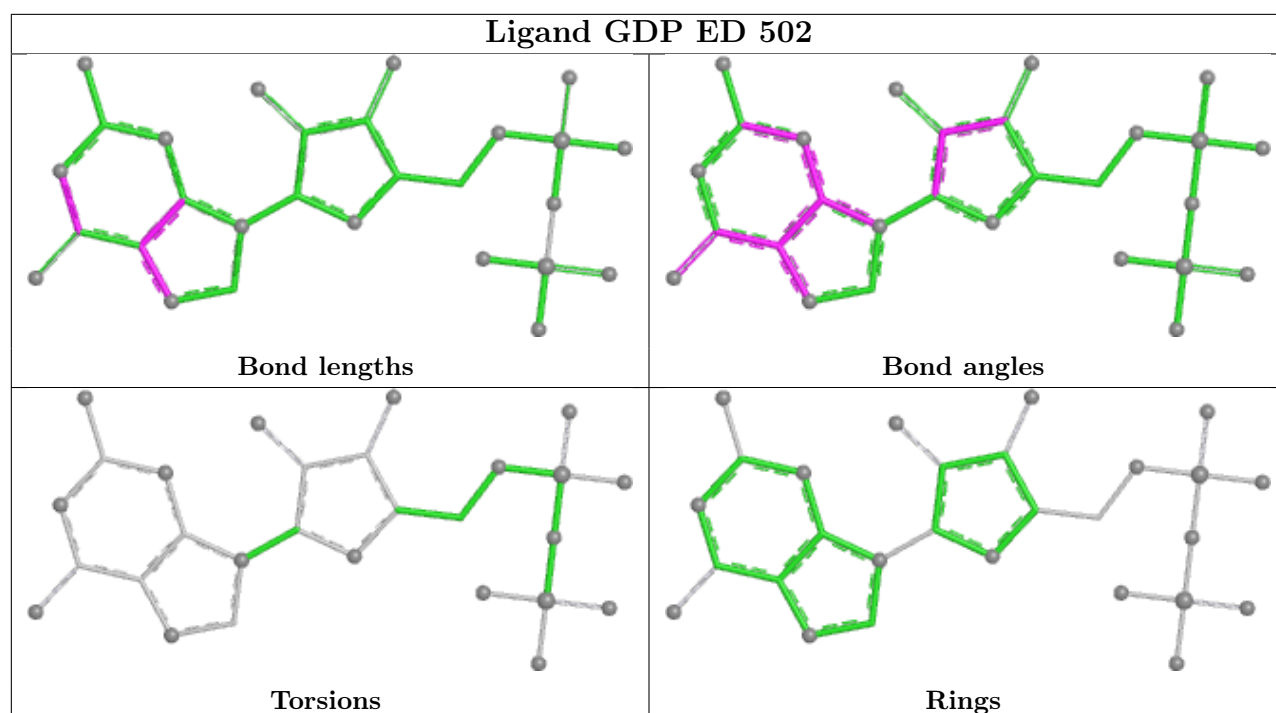


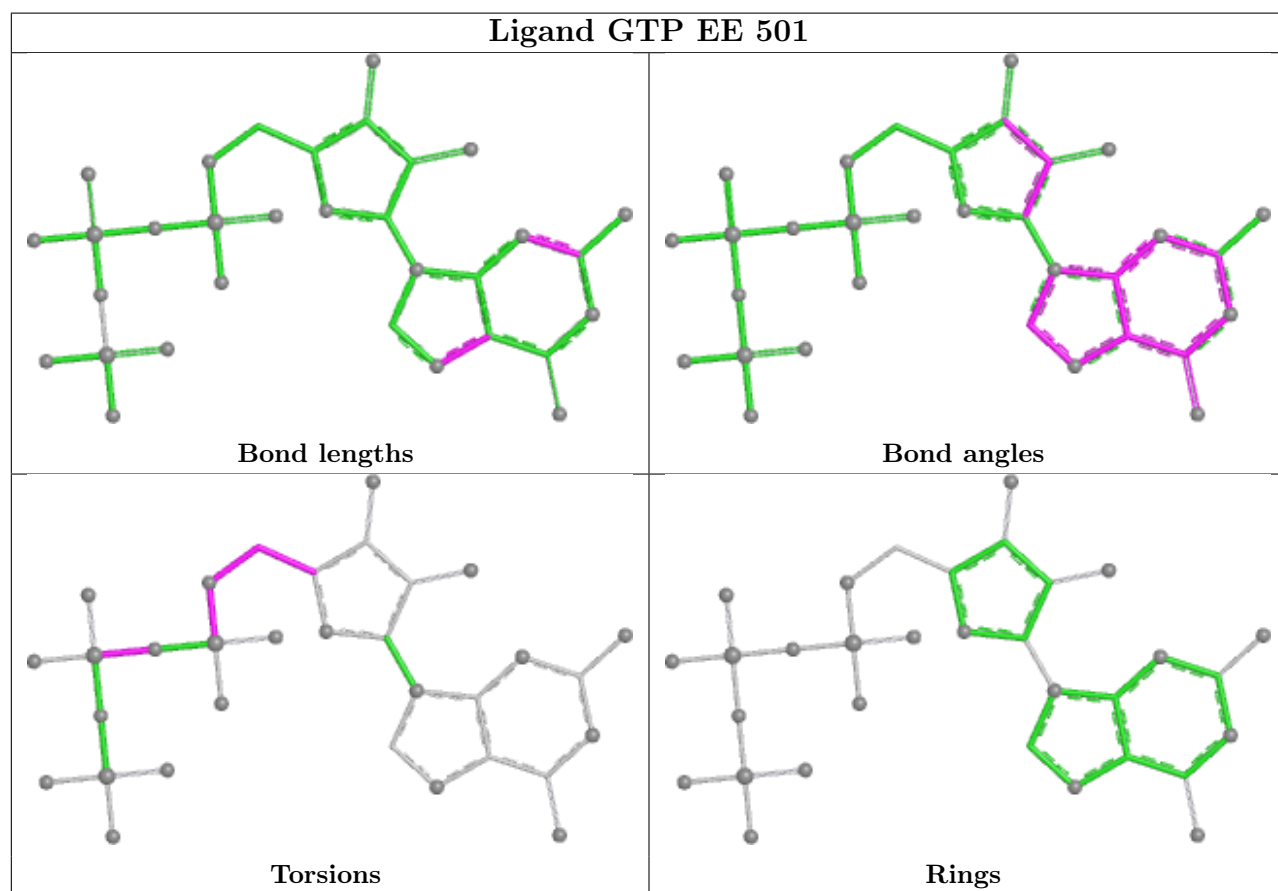
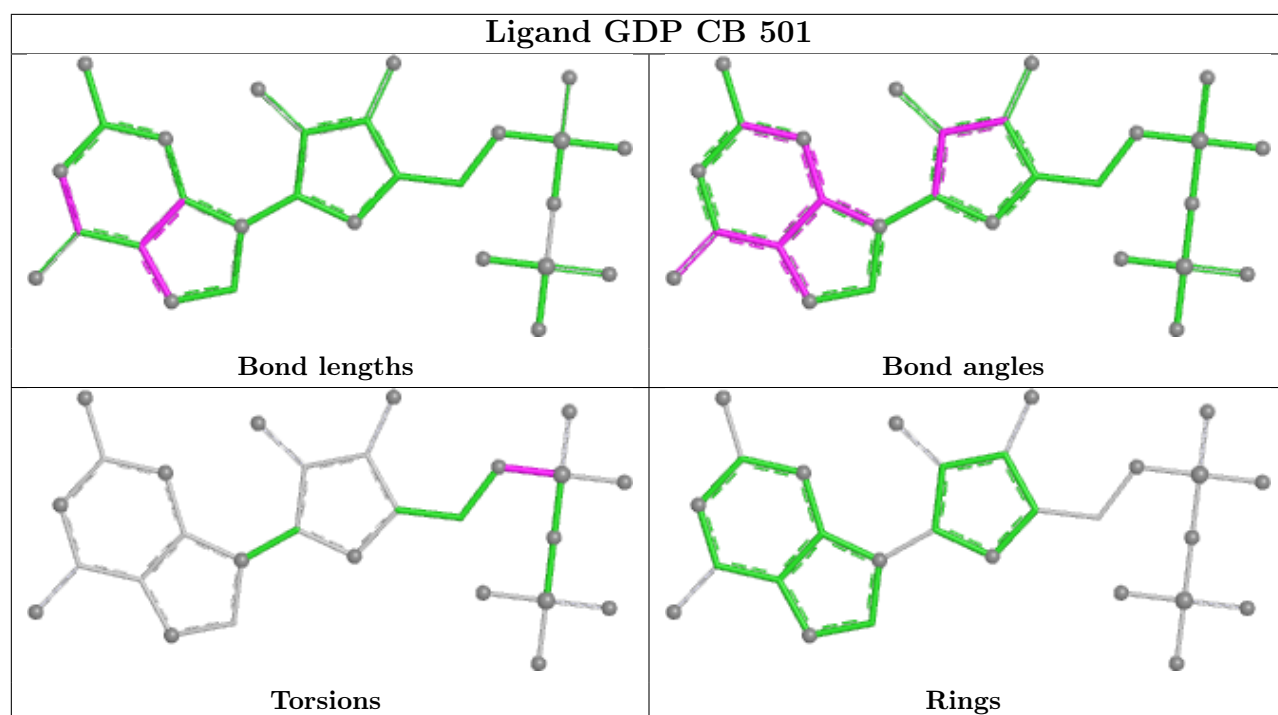
Ligand GTP IA 501



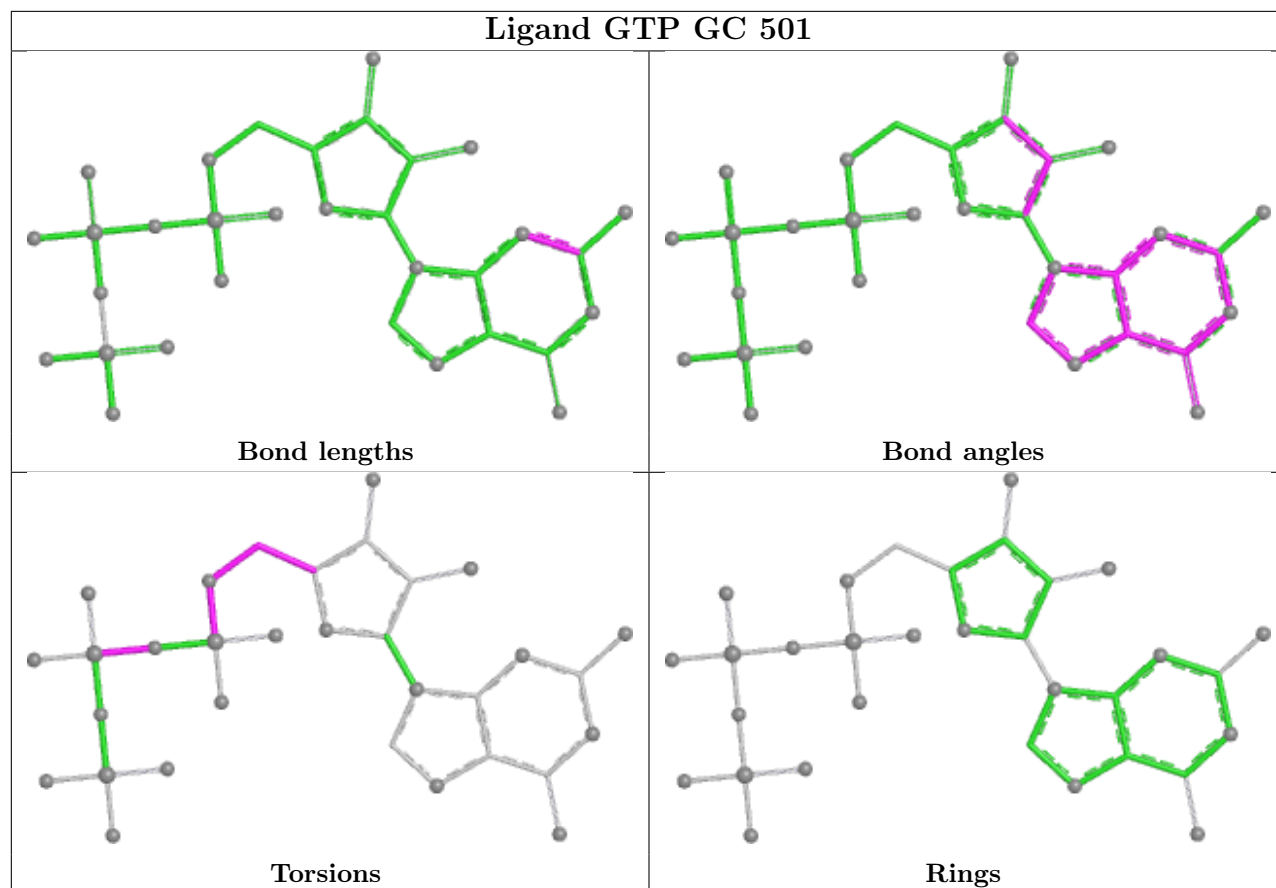
Ligand GTP EC 501



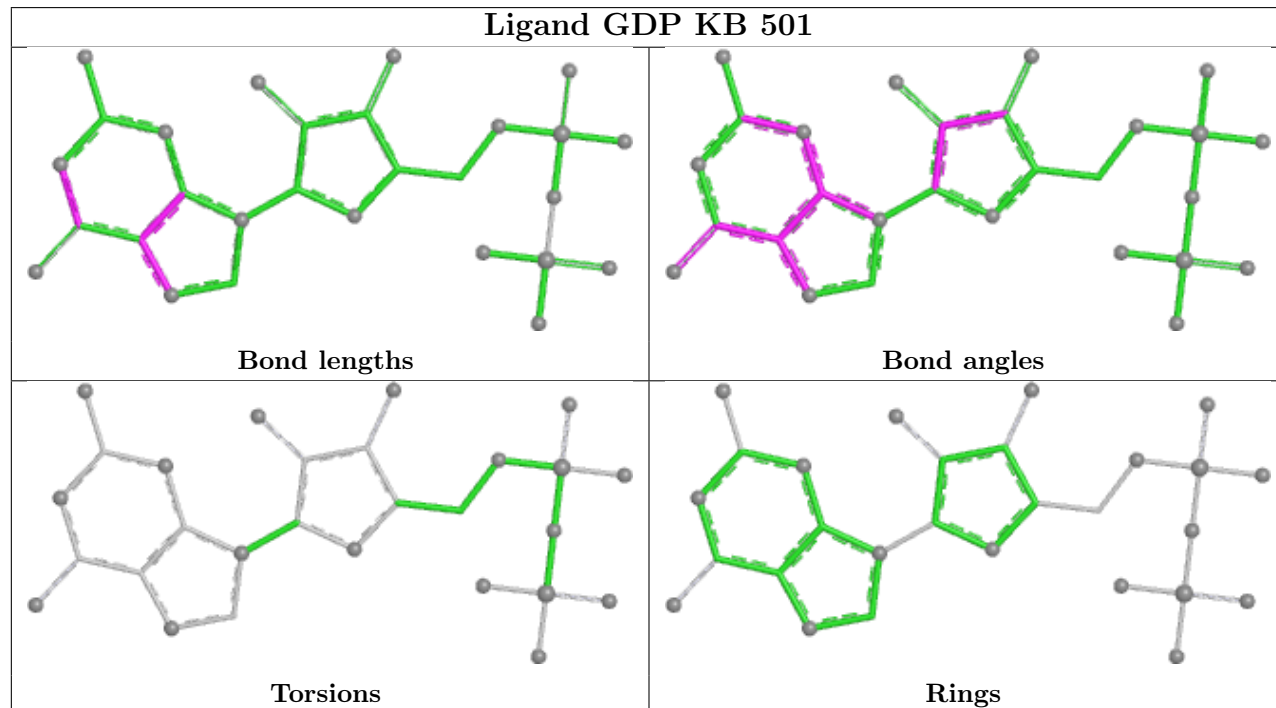


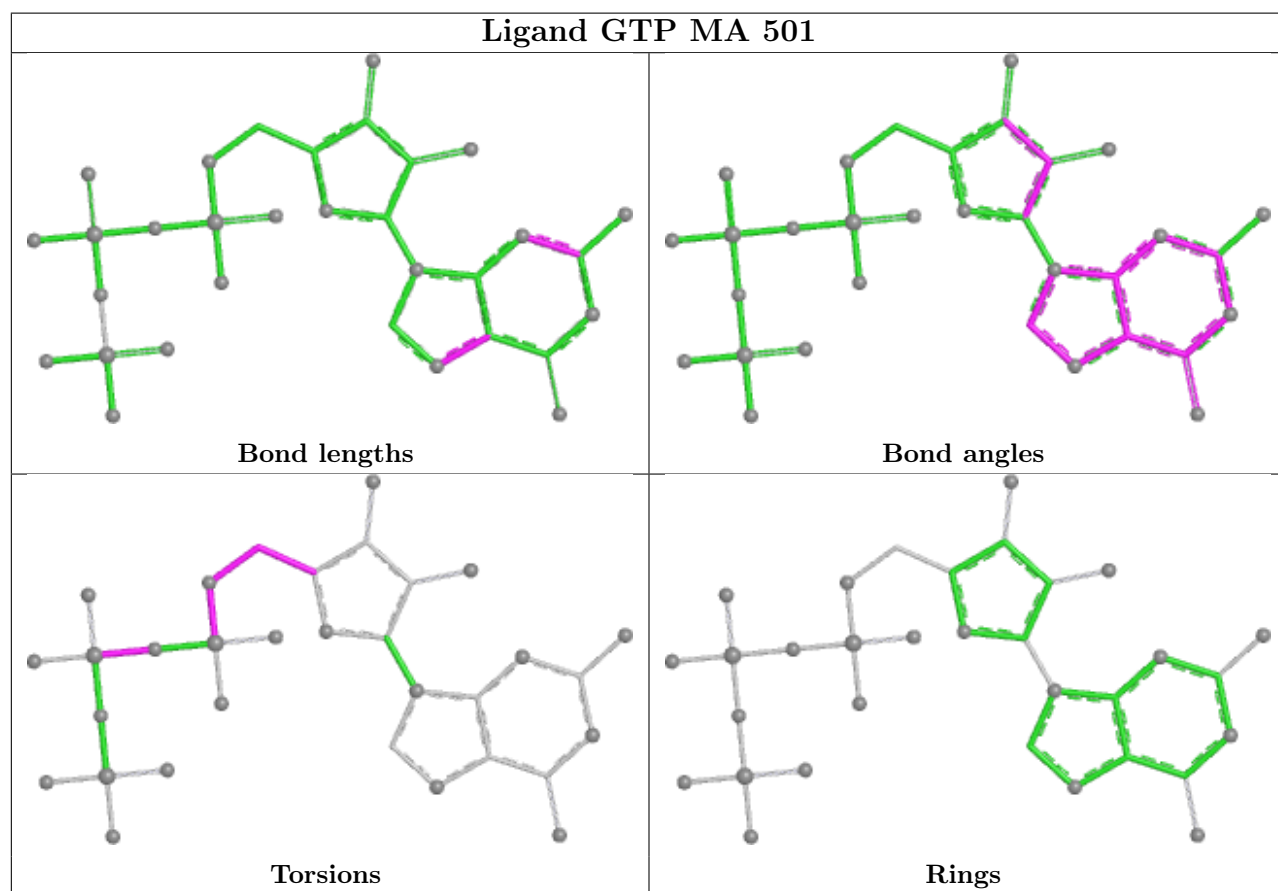
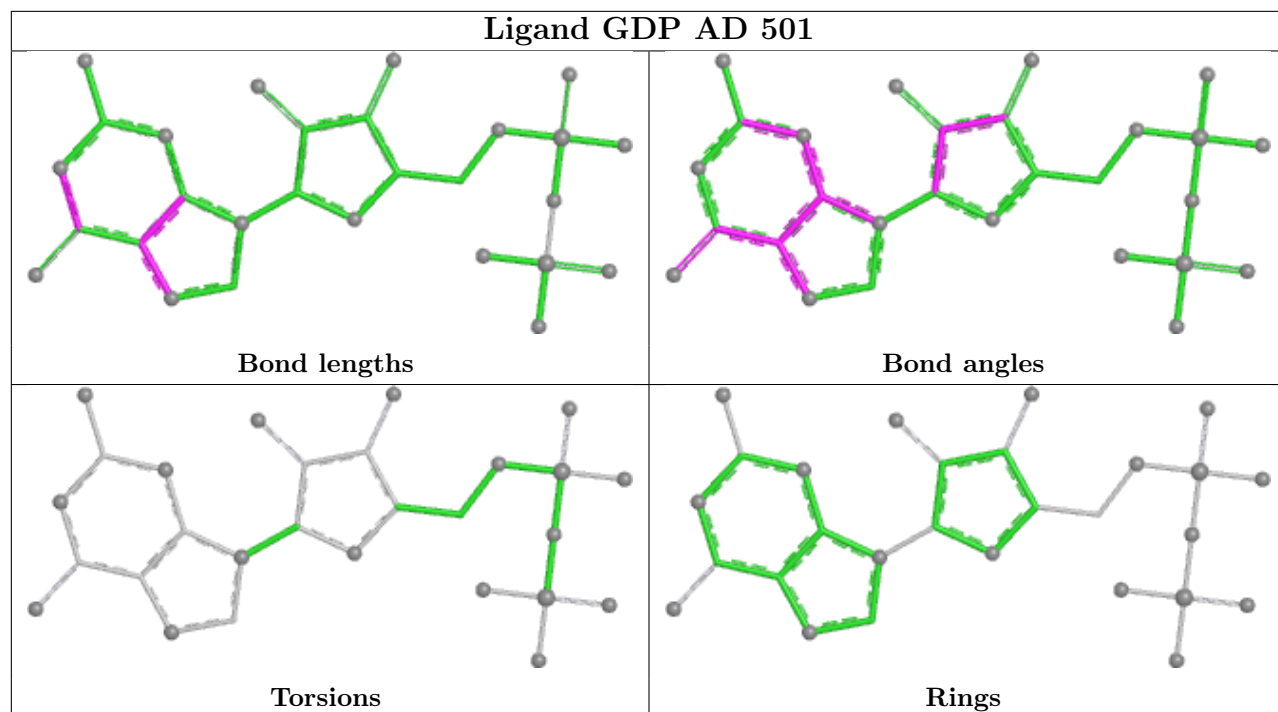


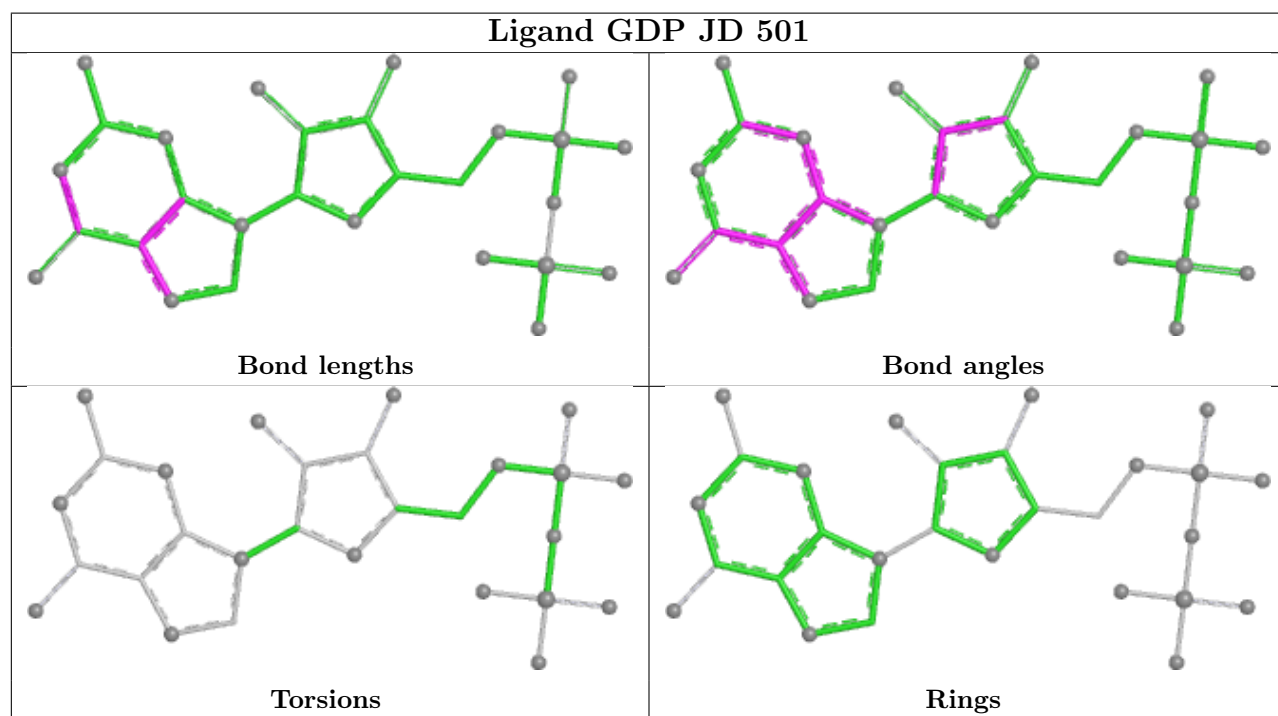
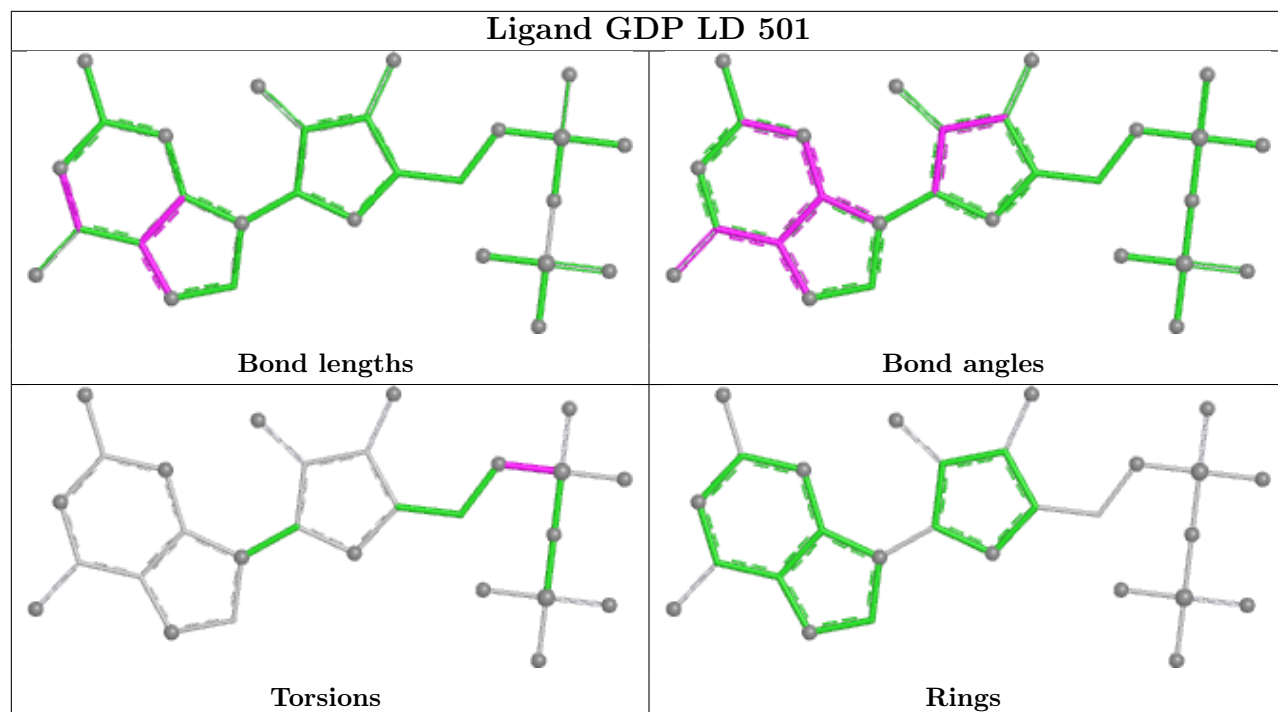
Ligand GTP GC 501



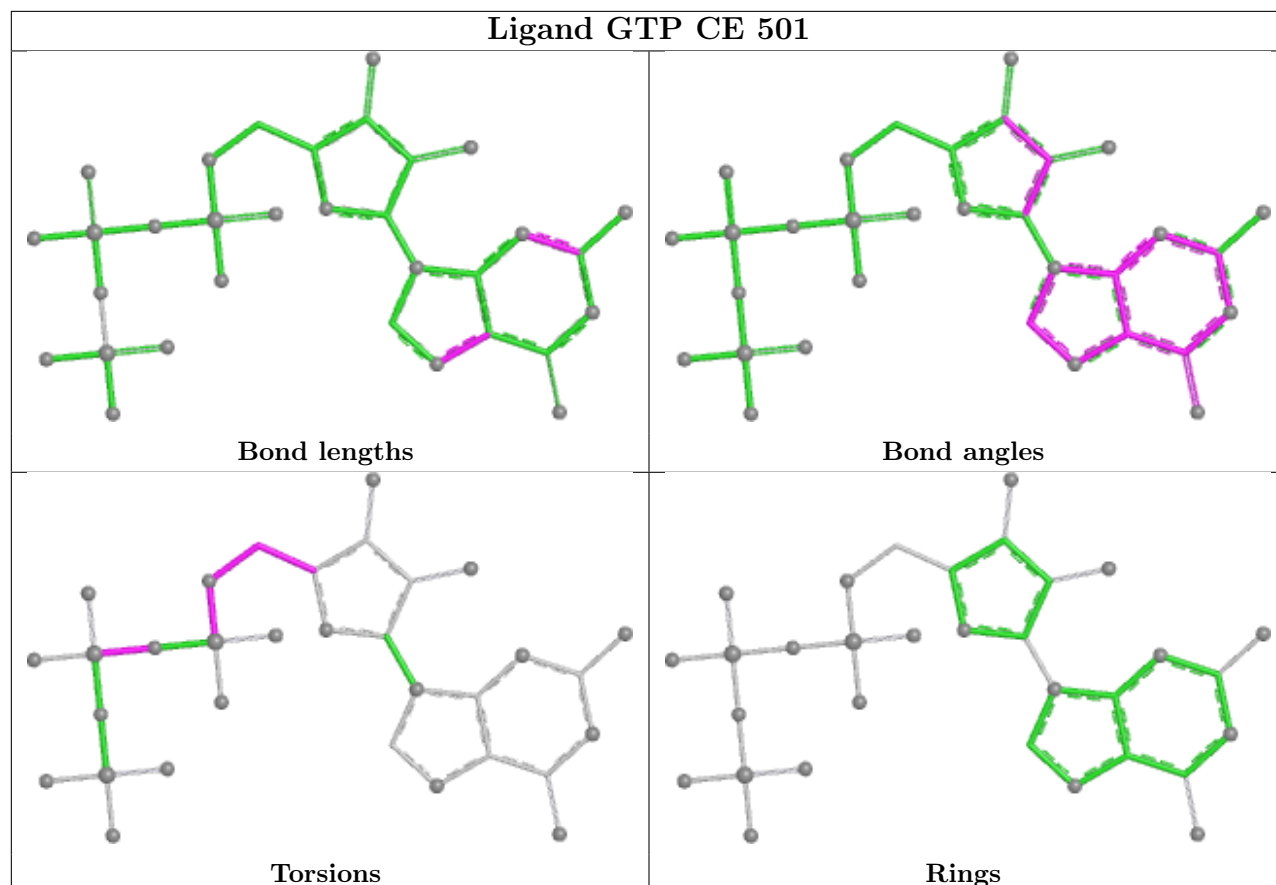
Ligand GDP KB 501



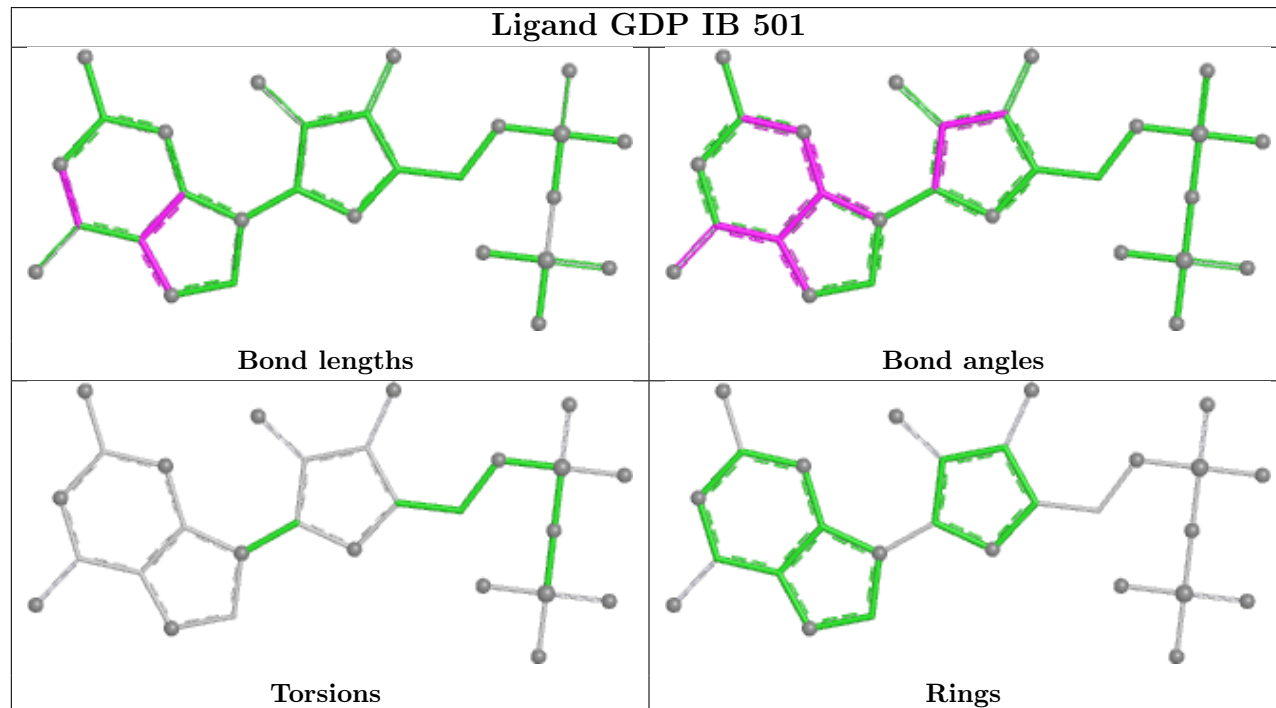




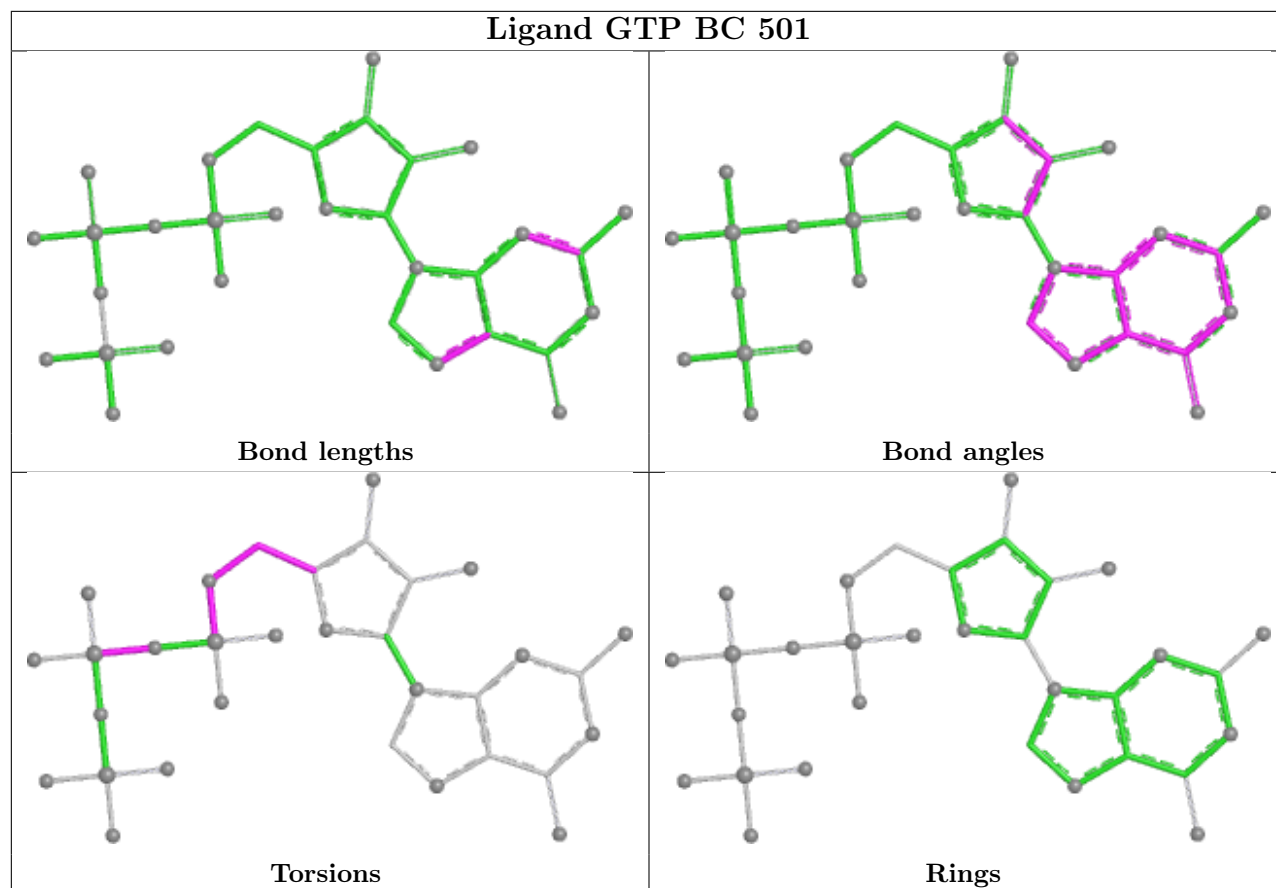
Ligand GTP CE 501



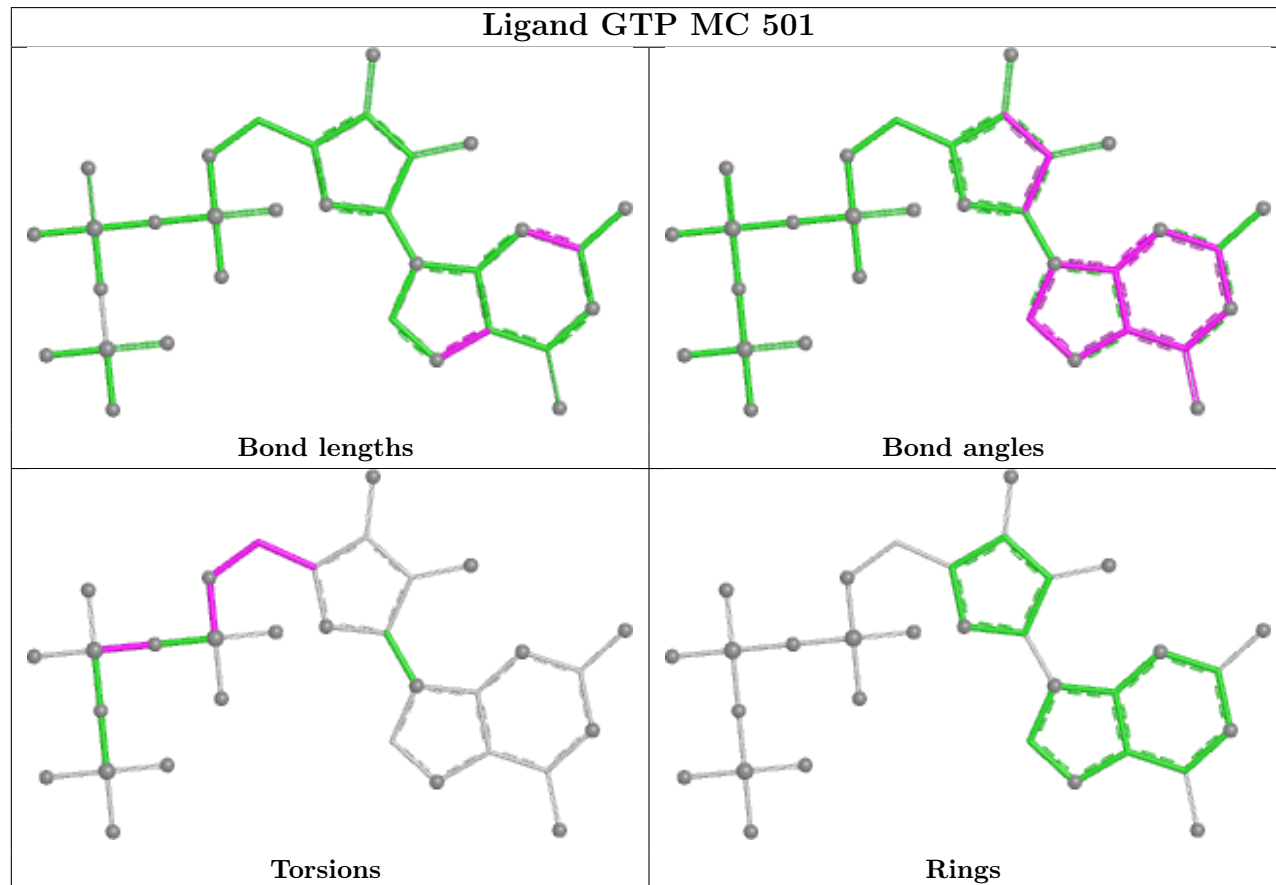
Ligand GDP IB 501

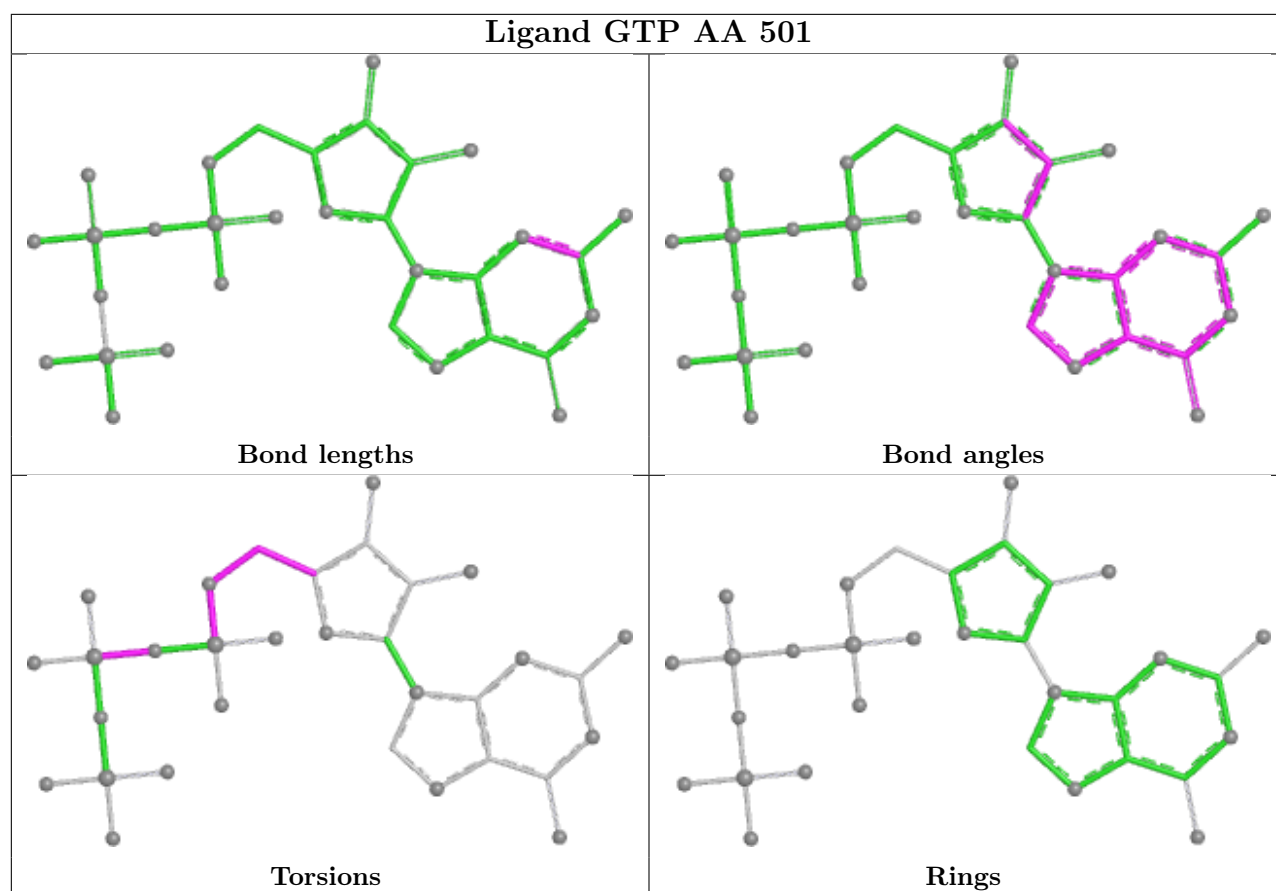


Ligand GTP BC 501



Ligand GTP MC 501





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

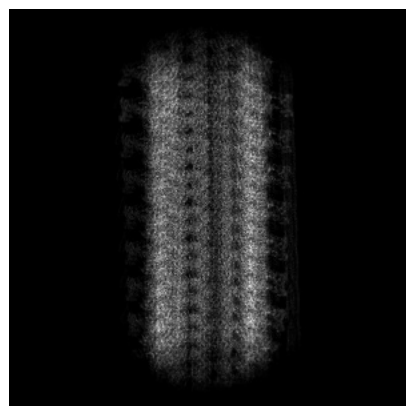
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-49872. These allow visual inspection of the internal detail of the map and identification of artifacts.

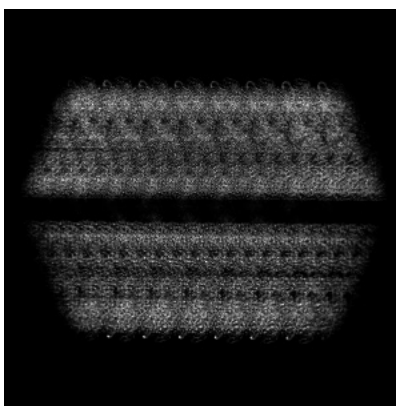
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

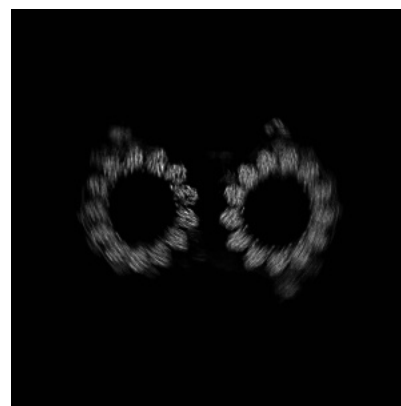
6.1.1 Primary map



X

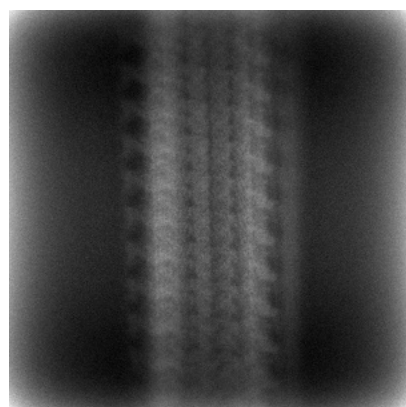


Y

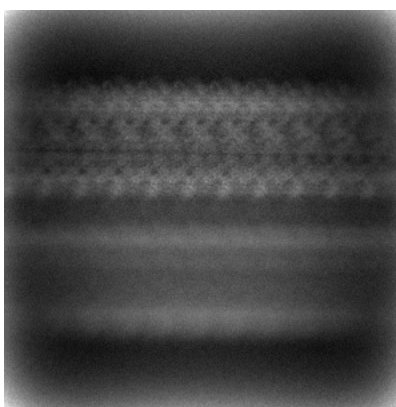


Z

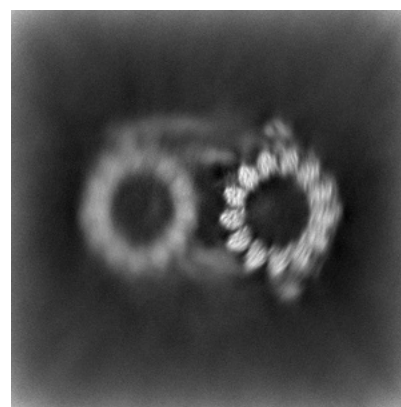
6.1.2 Raw map



X



Y

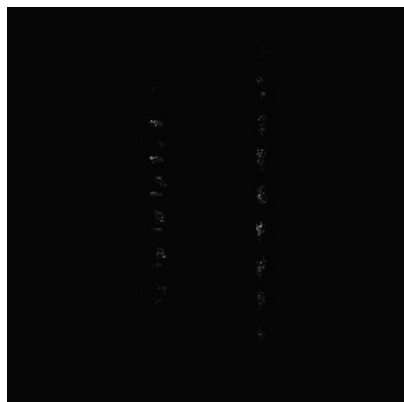


Z

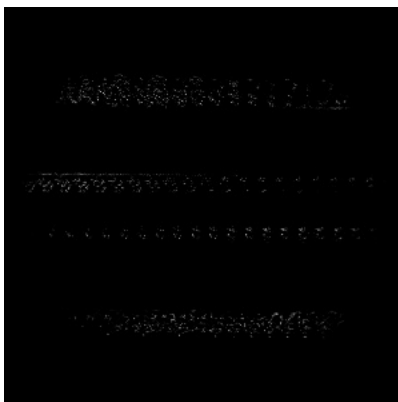
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 340

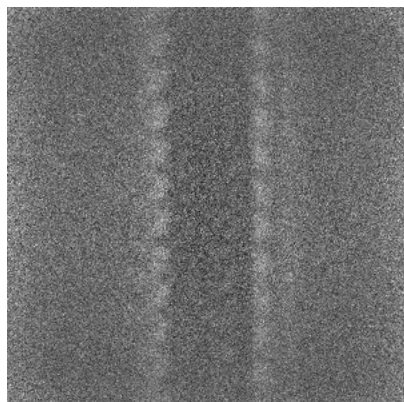


Y Index: 340

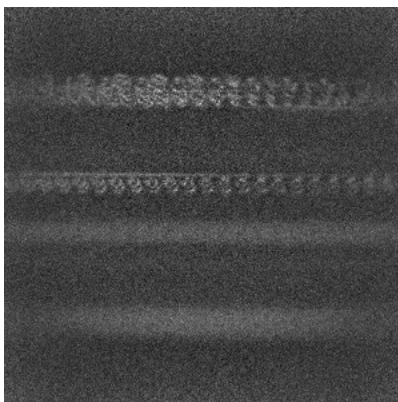


Z Index: 340

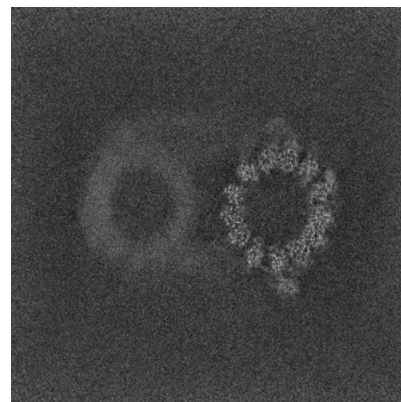
6.2.2 Raw map



X Index: 340



Y Index: 340

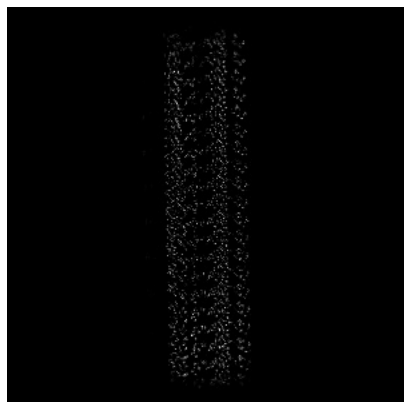


Z Index: 340

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

6.3 Largest variance slices [i](#)

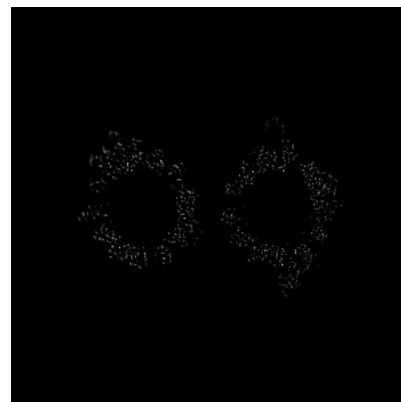
6.3.1 Primary map



X Index: 388

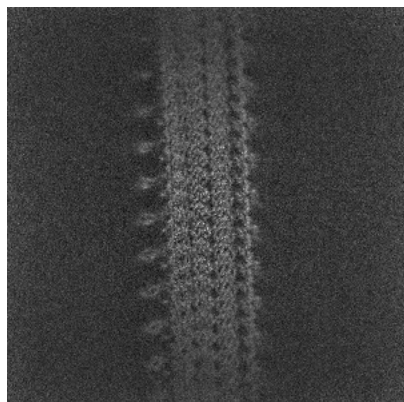


Y Index: 410

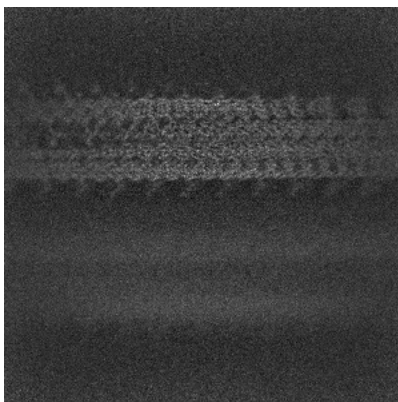


Z Index: 207

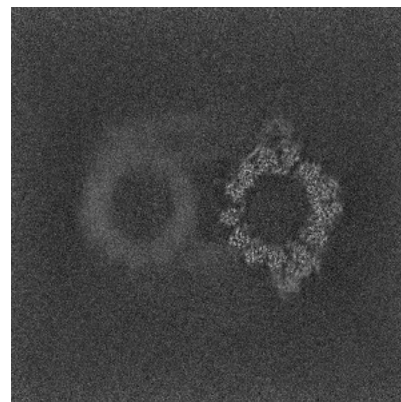
6.3.2 Raw map



X Index: 520



Y Index: 408

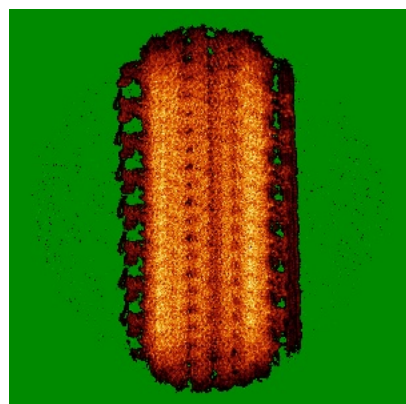


Z Index: 327

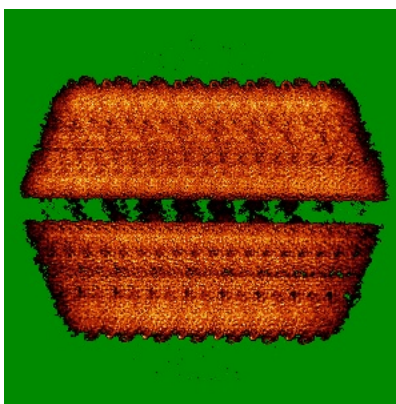
The images above show the largest variance slices of the map in three orthogonal directions.

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

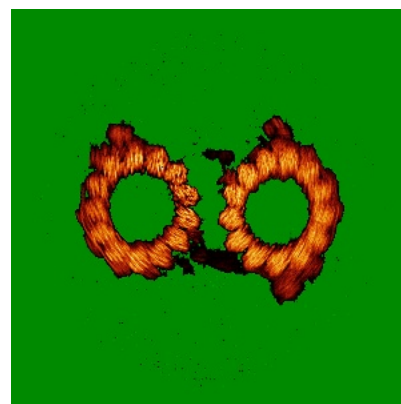
6.4.1 Primary map



X

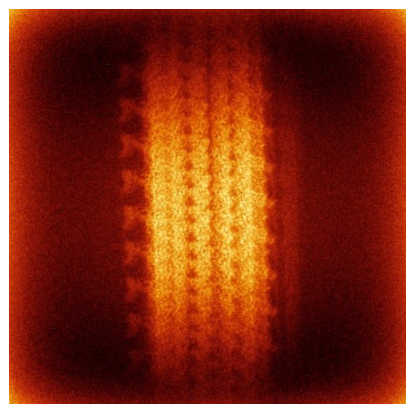


Y

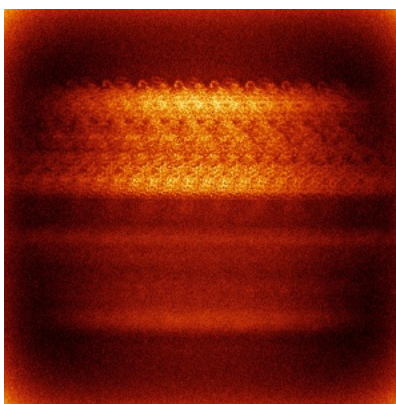


Z

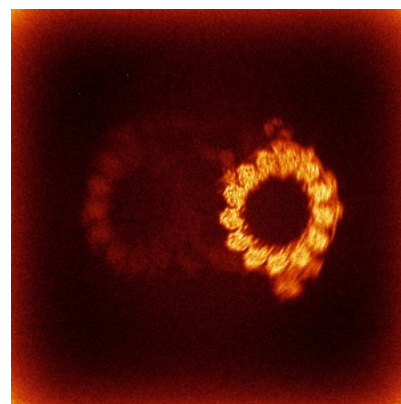
6.4.2 Raw map



X



Y

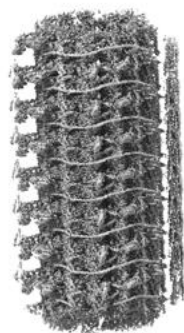


Z

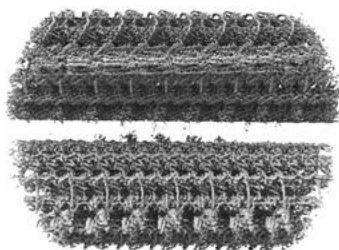
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

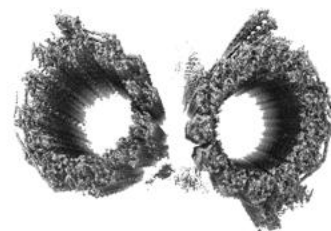
6.5.1 Primary map



X



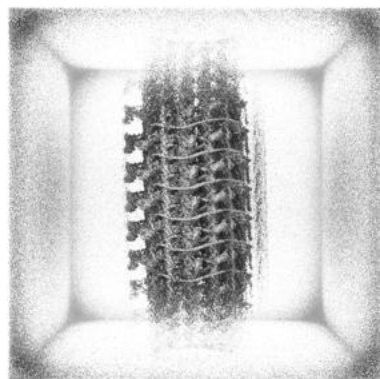
Y



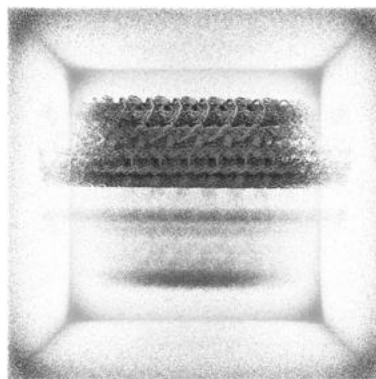
Z

The images above show the 3D surface view of the map at the recommended contour level 0.17. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

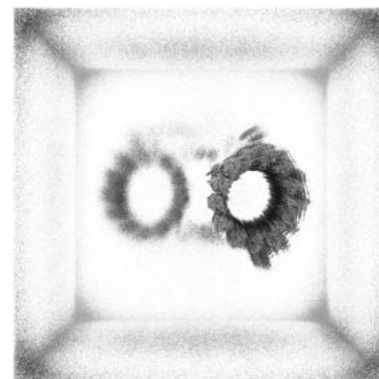
6.5.2 Raw map



X



Y



Z

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

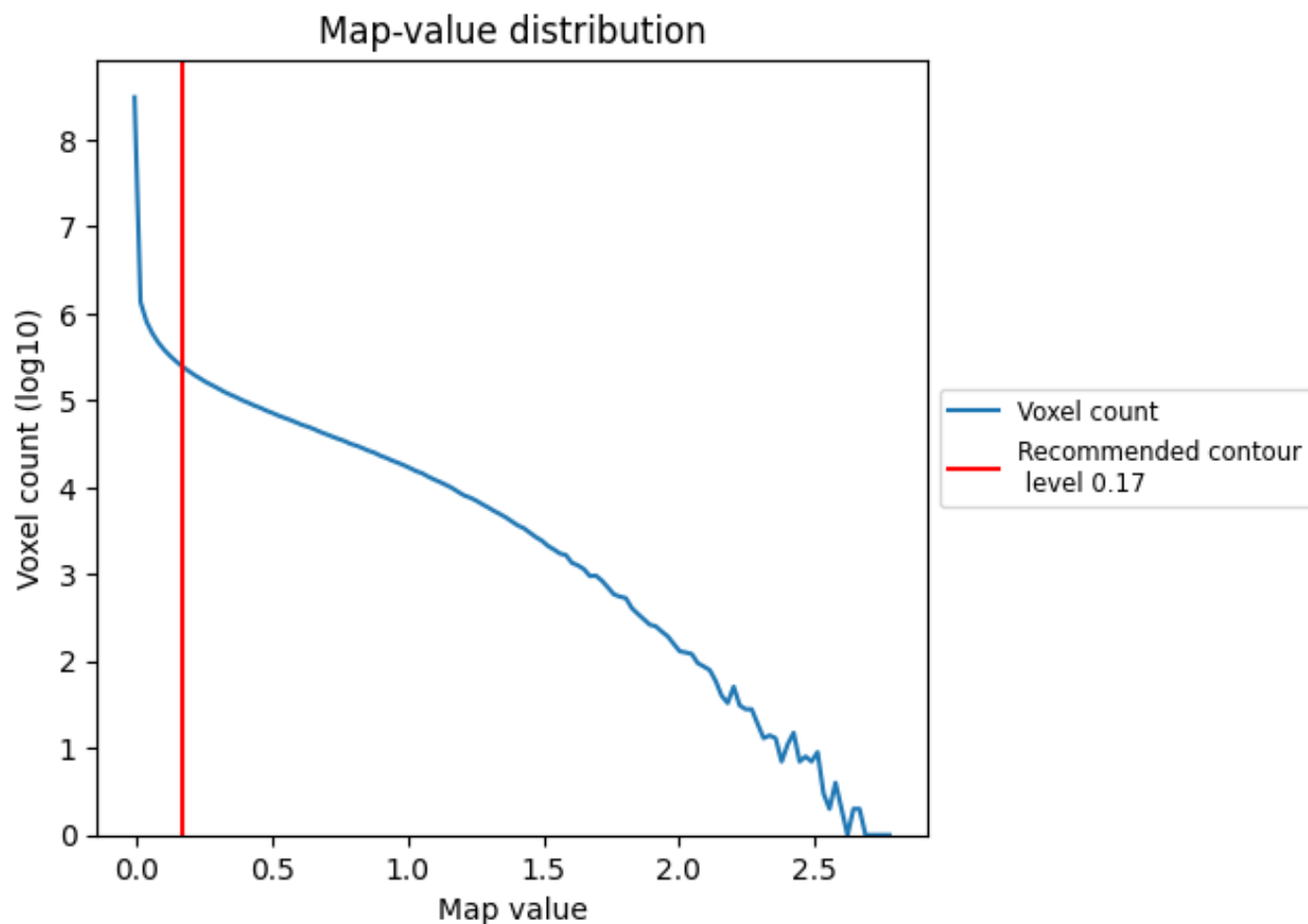
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

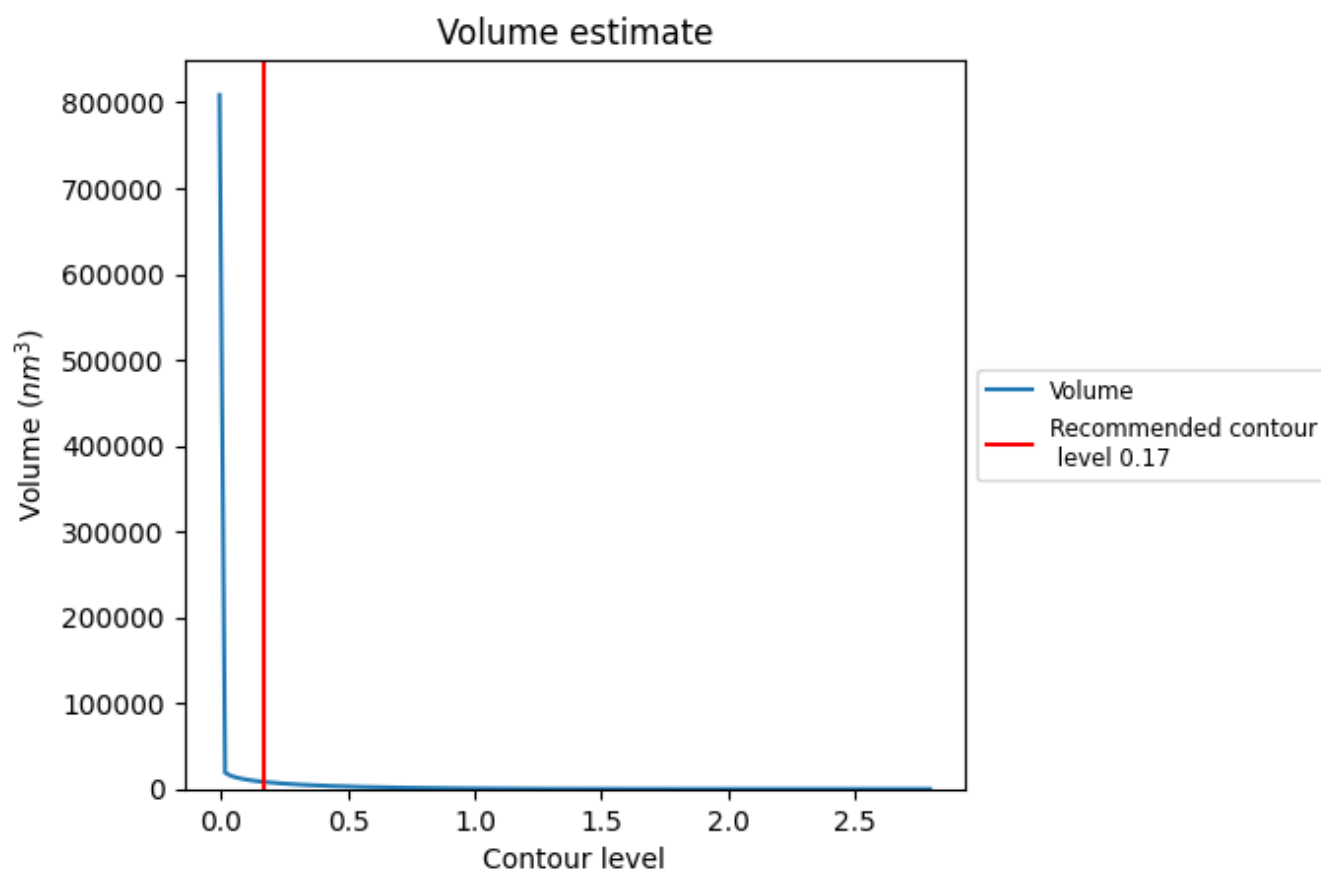
This section contains the results of statistical analysis of the map.

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.

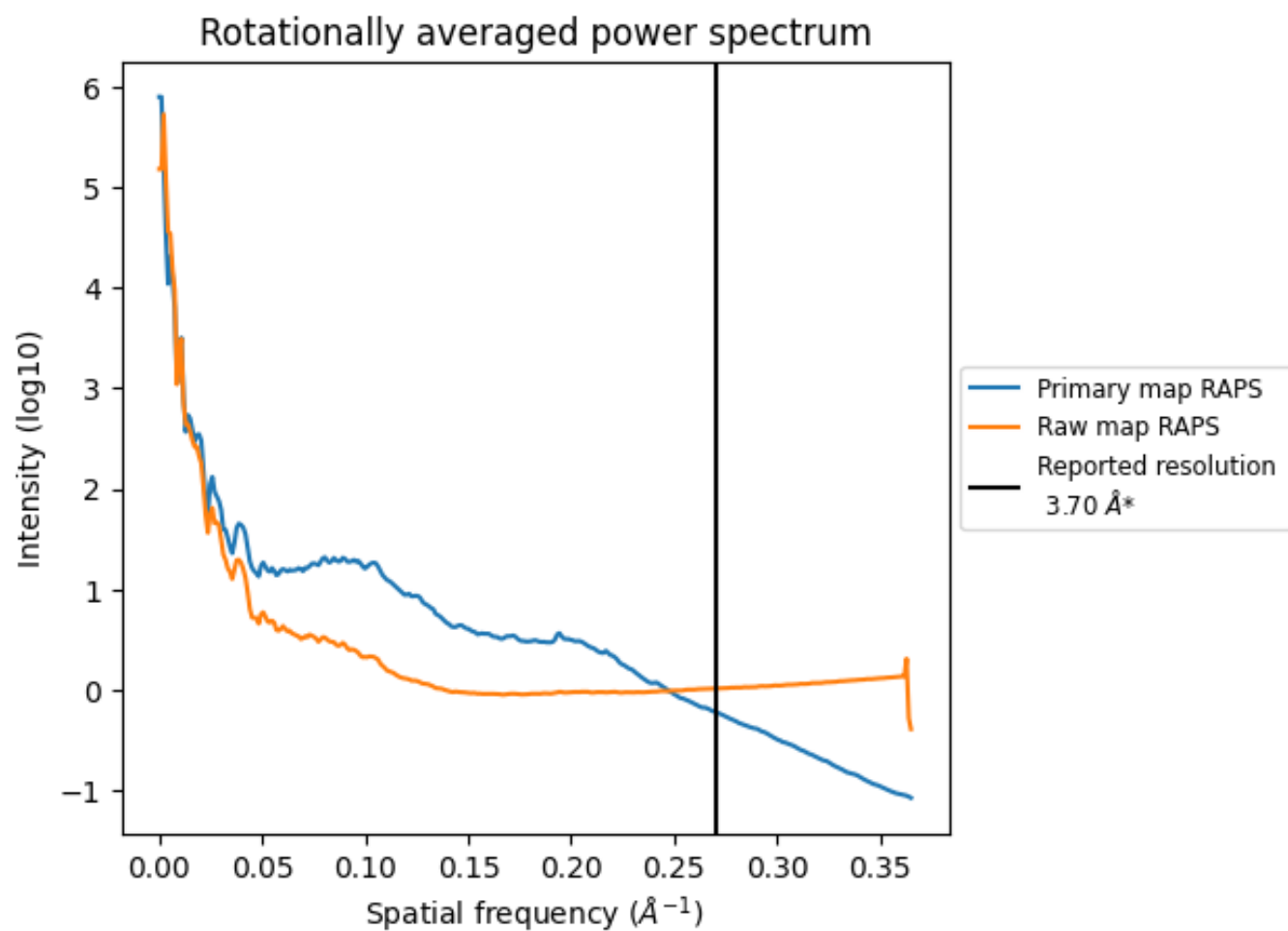
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 8171 nm³; this corresponds to an approximate mass of 7381 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 ⓘ

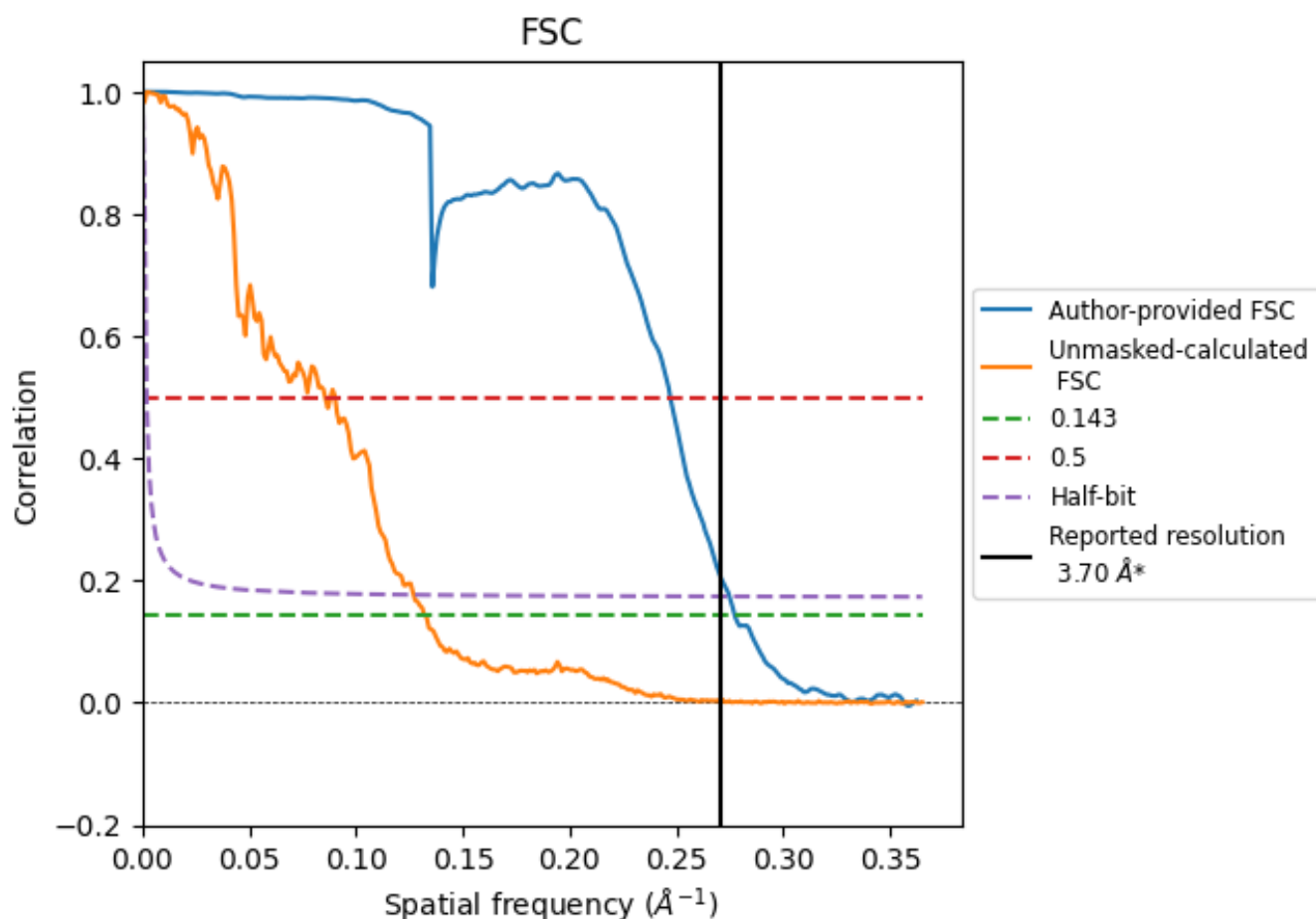


*Reported resolution corresponds to spatial frequency of 0.270 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.270 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

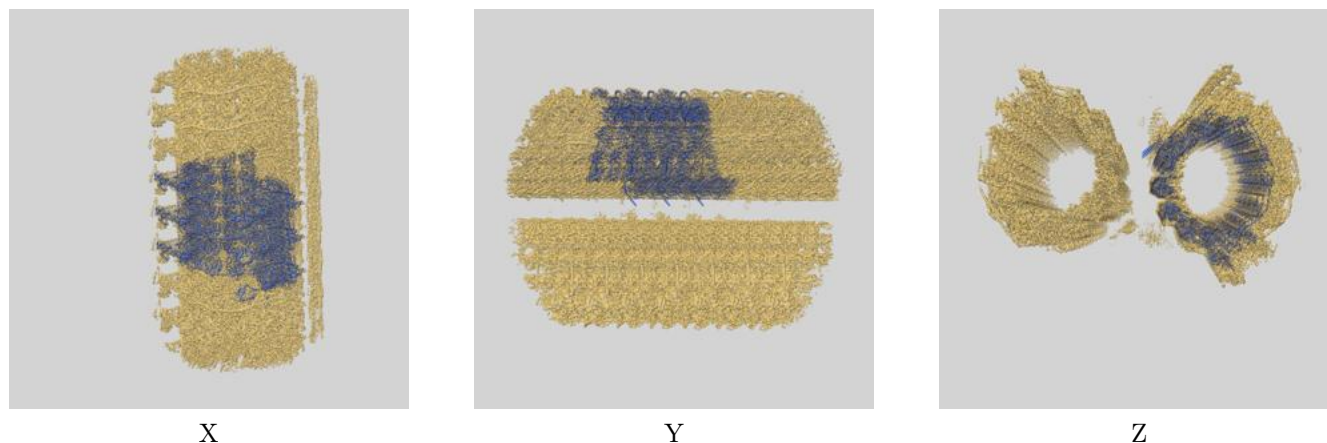
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.70	-	-
Author-provided FSC curve	3.61	4.05	3.64
Unmasked-calculated*	7.56	11.68	7.87

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 7.56 differs from the reported value 3.7 by more than 10 %

9 Map-model fit [i](#)

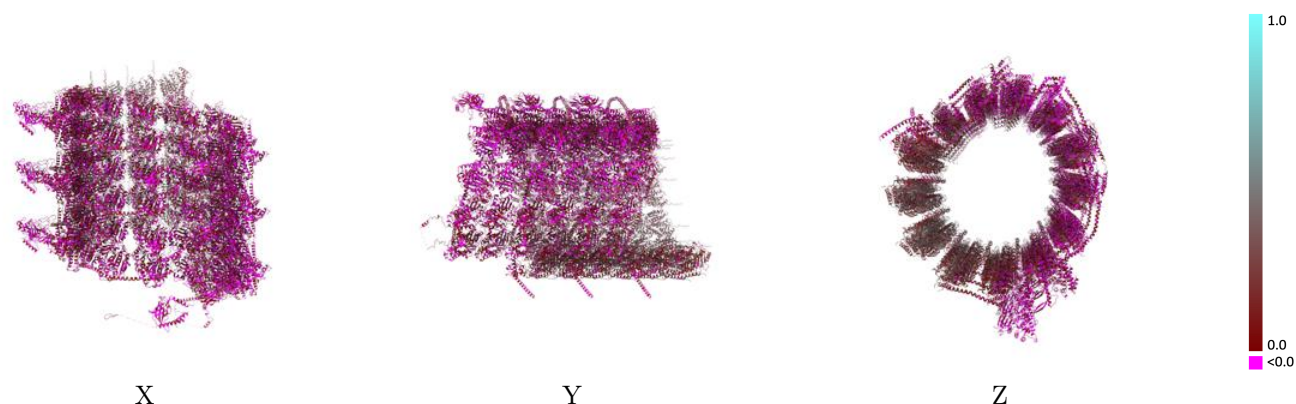
This section contains information regarding the fit between EMDB map EMD-49872 and PDB model 9NW3. Per-residue inclusion information can be found in section [3](#) on page [23](#).

9.1 Map-model overlay [i](#)



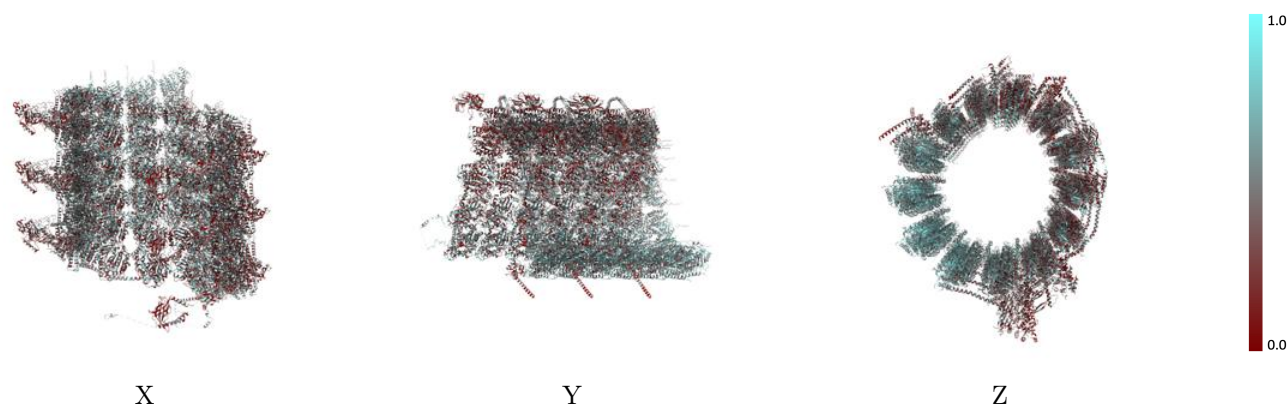
The images above show the 3D surface view of the map at the recommended contour level 0.17 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



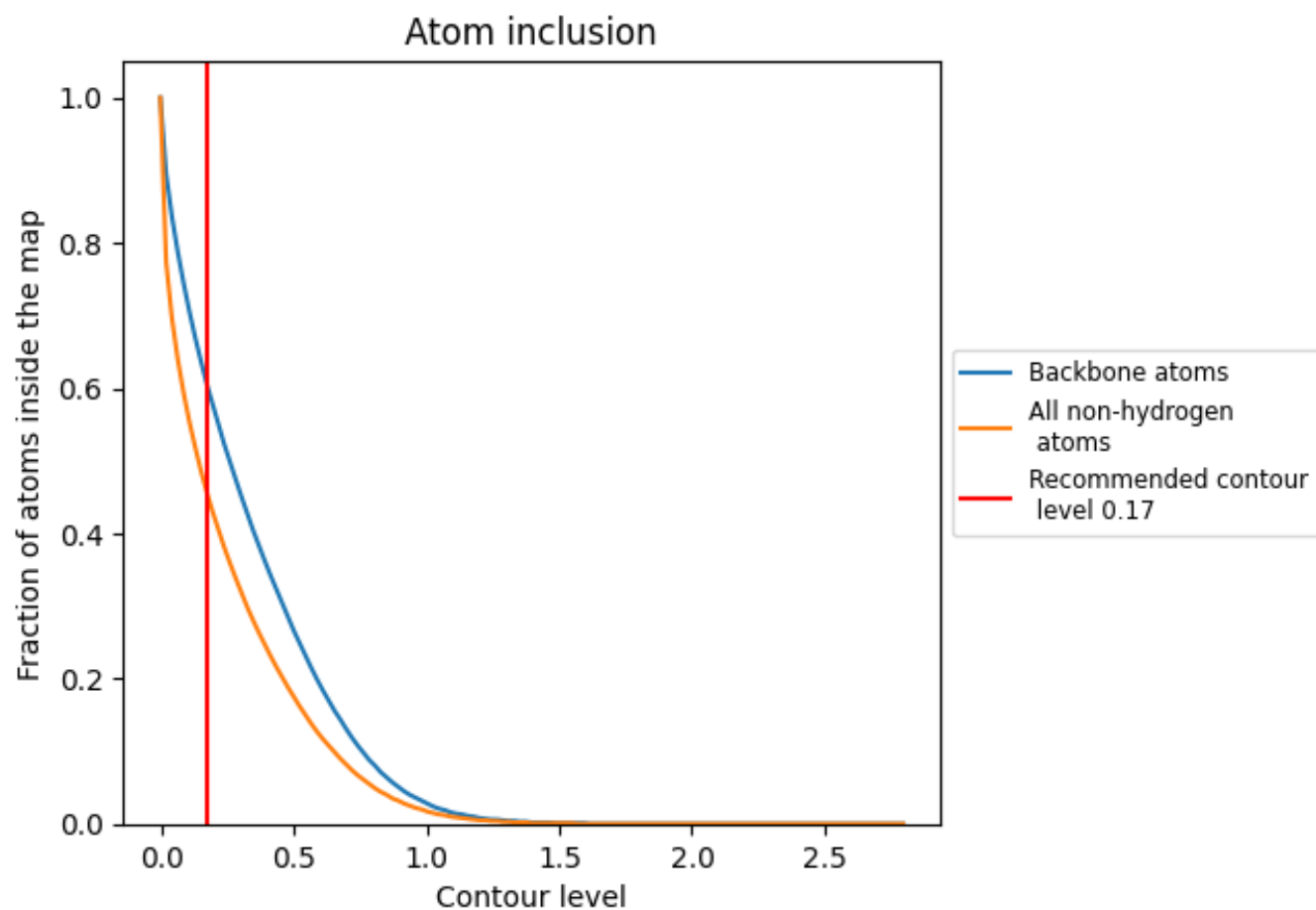
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.17).

9.4 Atom inclusion ⓘ



At the recommended contour level, 60% of all backbone atoms, 46% 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 (0.17) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.4550	 0.1370
1A	 0.2930	 0.0820
1B	 0.2820	 0.0750
1C	 0.3090	 0.0770
2A	 0.3760	 0.0670
2B	 0.3770	 0.0590
2C	 0.3700	 0.0770
3A	 0.2760	 0.0160
3B	 0.2780	 0.0100
3C	 0.2670	 0.0100
4A	 0.5490	 0.2790
4B	 0.5460	 0.2330
4C	 0.5210	 0.2260
4D	 0.5490	 0.1840
5A	 0.3430	 0.0690
5B	 0.3440	 0.0600
5C	 0.3330	 0.0520
6A	 0.2950	 0.0020
6B	 0.3240	 0.0110
6C	 0.2940	 -0.0160
7A	 0.3110	 0.0210
7B	 0.3240	 0.0160
7C	 0.3320	 0.0460
7D	 0.2980	 0.0160
7E	 0.3240	 0.0440
7F	 0.3060	 0.0270
8A	 0.5560	 0.2440
8B	 0.4600	 0.2670
8C	 0.5180	 0.2650
8D	 0.5820	 0.3310
8E	 0.6300	 0.3780
8F	 0.6090	 0.3700
8G	 0.5770	 0.3190
8H	 0.5820	 0.3340
8I	 0.5820	 0.3400



Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
8J	 0.6140	 0.2900
8K	 0.5930	 0.2960
8L	 0.5560	 0.2870
8M	 0.6190	 0.2670
8N	 0.6450	 0.2700
8O	 0.5980	 0.2560
8P	 0.6090	 0.2170
8Q	 0.6090	 0.2400
8R	 0.6140	 0.2470
8S	 0.4390	 0.1840
8T	 0.4920	 0.2080
8U	 0.4920	 0.2010
8V	 0.4020	 0.1670
8W	 0.3230	 0.1630
8X	 0.3180	 0.1780
8Y	 0.2590	 0.0830
8Z	 0.4340	 0.1630
9A	 0.4340	 0.1580
AA	 0.5470	 0.2130
AB	 0.5180	 0.1970
AC	 0.5490	 0.2330
AD	 0.5180	 0.2090
AE	 0.5410	 0.2300
AF	 0.5170	 0.2090
BA	 0.5930	 0.2920
BB	 0.6010	 0.3000
BC	 0.6040	 0.3080
BD	 0.5960	 0.2990
BE	 0.6010	 0.3070
BF	 0.5950	 0.3010
CA	 0.6260	 0.3110
CB	 0.6220	 0.3150
CC	 0.6320	 0.3320
CD	 0.6150	 0.3200
CE	 0.6300	 0.3330
CF	 0.6100	 0.3180
DA	 0.5770	 0.2440
DB	 0.5780	 0.2570
DC	 0.5930	 0.2760
DD	 0.5840	 0.2740
DE	 0.6070	 0.2910
DF	 0.5910	 0.2810

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
EA	 0.4910	 0.1470
EB	 0.4920	 0.1590
EC	 0.5110	 0.1740
ED	 0.5160	 0.1840
EE	 0.5280	 0.1930
EF	 0.5370	 0.1920
FA	 0.4420	 0.0830
FB	 0.4360	 0.0790
FC	 0.4550	 0.1020
FD	 0.4540	 0.0930
FE	 0.4710	 0.1180
FF	 0.4690	 0.1070
GA	 0.4110	 0.0660
GB	 0.3980	 0.0560
GC	 0.3960	 0.0590
GD	 0.4050	 0.0600
GE	 0.3990	 0.0610
GF	 0.4020	 0.0600
HA	 0.4130	 0.0920
HB	 0.4100	 0.0860
HC	 0.4060	 0.0940
HD	 0.4010	 0.0810
HE	 0.3880	 0.0820
HF	 0.3920	 0.0700
IA	 0.4020	 0.0900
IB	 0.4040	 0.1020
IC	 0.4120	 0.0990
ID	 0.4030	 0.0910
IE	 0.3970	 0.0860
IF	 0.3970	 0.0790
JA	 0.3890	 0.0790
JB	 0.3830	 0.0710
JC	 0.3810	 0.0730
JD	 0.3620	 0.0510
JE	 0.3660	 0.0600
JF	 0.3490	 0.0390
KA	 0.3580	 0.0460
KB	 0.3710	 0.0480
KC	 0.3560	 0.0400
KD	 0.3740	 0.0360
KE	 0.3550	 0.0260
KF	 0.3780	 0.0200

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
LA	 0.4220	 0.0710
LB	 0.4300	 0.0830
LC	 0.4260	 0.0750
LD	 0.4330	 0.0810
LE	 0.4340	 0.0670
LF	 0.4380	 0.0680
MA	 0.4860	 0.1590
MB	 0.4740	 0.1390
MC	 0.4840	 0.1490
MD	 0.4750	 0.1330
ME	 0.4740	 0.1310
MF	 0.4850	 0.1170