



Full wwPDB EM Validation Report ⓘ

Mar 29, 2026 – 02:21 PM UTC

PDB ID : 8WL2 / pdb_00008wl2
EMDB ID : EMD-37611
Title : Cryo-EM structure of the membrane-anchored part of the flagellar motor-hook complex in the CW state.
Authors : Tan, J.X.; Zhang, L.; Zhou, Y.; Zhu, Y.Q.
Deposited on : 2023-09-29
Resolution : 3.40 Å (reported)
Based on initial models : ?, .

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

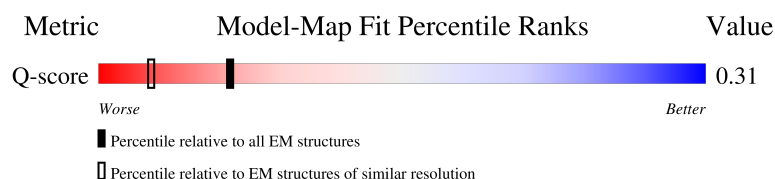
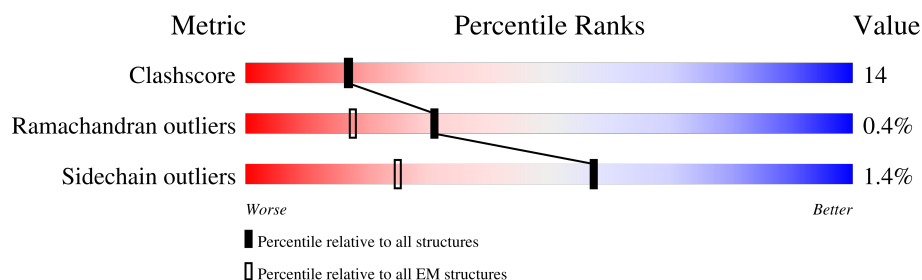
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.40 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	14717 (2.90 - 3.90)

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	A	232	49% 76% 15% 9%
1	B	232	44% 77% 14% 9%
1	C	232	46% 77% 14% 9%
1	D	232	43% 76% 15% 9%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	E	232	47% 77% 14% 9%
1	F	232	43% 76% 15% 9%
1	G	232	44% 76% 15% 9%
1	H	232	44% 77% 14% 9%
1	I	232	44% 77% 14% 9%
1	J	232	45% 77% 14% 9%
1	K	232	41% 77% 14% 9%
1	L	232	44% 77% 14% 9%
1	M	232	47% 76% 15% 9%
1	N	232	44% 76% 15% 9%
1	O	232	50% 76% 15% 9%
1	P	232	41% 77% 14% 9%
1	Q	232	46% 76% 15% 9%
1	R	232	42% 76% 15% 9%
1	S	232	47% 76% 15% 9%
1	T	232	49% 77% 14% 9%
1	U	232	47% 76% 15% 9%
1	V	232	47% 76% 15% 9%
1	W	232	50% 76% 15% 9%
1	X	232	46% 76% 15% 9%
1	Y	232	48% 76% 15% 9%
1	Z	232	47% 76% 15% 9%
2	a	365	56% 62% 21% • 17%
2	b	365	55% 61% 21% • 17%
2	c	365	54% 61% 21% • 17%

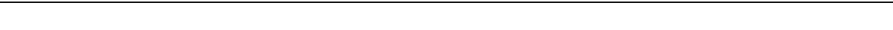
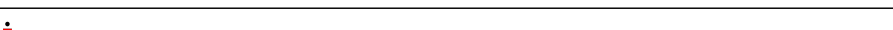
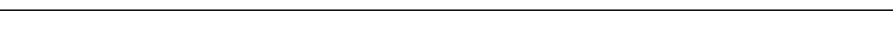
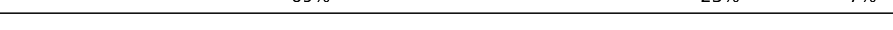
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
2	d	365	55% 61% 22% 17%
2	e	365	55% 61% 21% 17%
2	f	365	55% 62% 21% 17%
2	g	365	52% 61% 22% 17%
2	h	365	57% 61% 21% 17%
2	i	365	57% 61% 21% 17%
2	j	365	53% 61% 21% 17%
2	k	365	58% 61% 22% 17%
2	l	365	57% 61% 21% 17%
2	m	365	54% 62% 21% 17%
2	n	365	55% 61% 21% 17%
2	o	365	55% 61% 21% 17%
2	p	365	53% 62% 21% 17%
2	q	365	57% 61% 21% 17%
2	r	365	51% 61% 21% 17%
2	s	365	54% 61% 21% 17%
2	t	365	55% 61% 22% 17%
2	u	365	62% 61% 21% 17%
2	v	365	59% 61% 21% 17%
2	w	365	57% 61% 21% 17%
2	x	365	59% 61% 21% 17%
2	y	365	60% 61% 21% 17%
2	z	365	58% 61% 21% 17%
3	0	260	64% 30% 5%
3	1	260	71% 25% ••

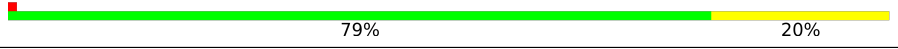
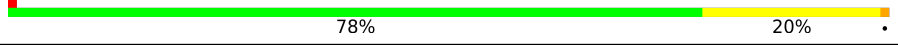
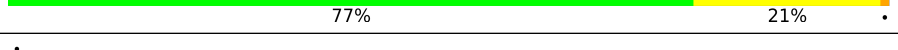
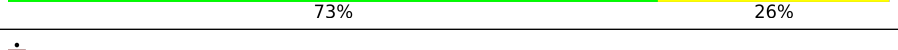
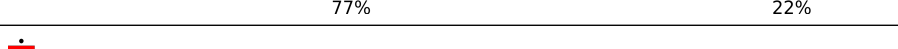
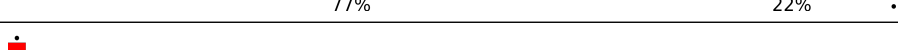
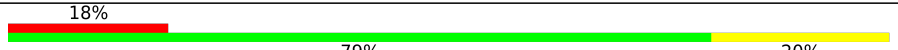
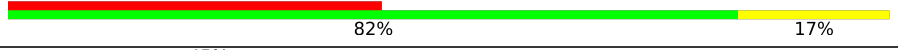
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	2	260	 76% 24%
3	3	260	 72% 27%
3	4	260	 68% 32%
3	5	260	 69% 30%
3	6	260	 71% 28%
3	7	260	 73% 27%
3	8	260	 72% 27%
3	9	260	 72% 27%
3	AF	260	 71% 26%
3	AG	260	 67% 29%
3	AH	260	 68% 28%
3	AI	260	 68% 28%
3	AJ	260	 73% 25%
3	AK	260	 69% 23% 7%
3	AL	260	 66% 28% 5%
3	AM	260	 64% 29% 5%
3	AN	260	 71% 23% 5%
3	ZA	260	 73% 26%
3	ZB	260	 71% 28%
3	ZC	260	 71% 28%
3	ZD	260	 68% 31%
3	ZE	260	 71% 29%
4	ZF	403	 23% 80% 18%
4	ZG	403	 75% 23%
4	ZH	403	 78% 20%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	ZI	403	
4	ZJ	403	
4	ZK	403	
4	ZL	403	
4	ZM	403	
4	ZN	403	
4	ZO	403	
4	ZP	403	
4	ZQ	403	
4	ZR	403	
4	ZS	403	
4	ZT	403	
4	ZU	403	
4	ZV	403	
4	ZW	403	
4	ZX	403	
4	ZY	403	
4	ZZ	403	
4	Za	403	
4	Zb	403	
4	Zc	403	
4	Zd	403	
4	Ze	403	
4	Zf	403	
4	Zg	403	

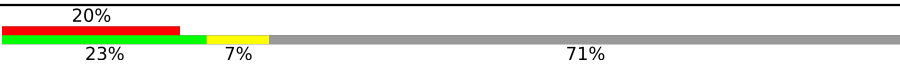
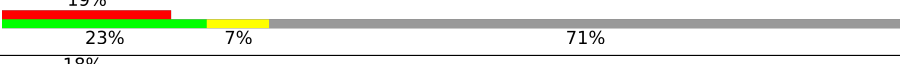
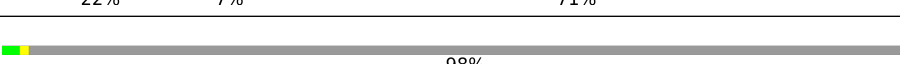
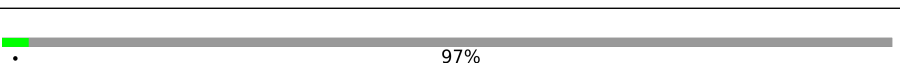
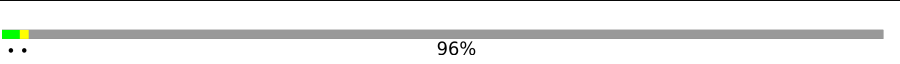
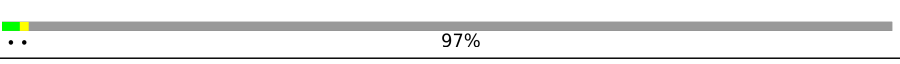
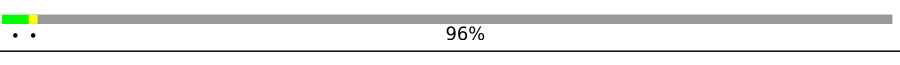
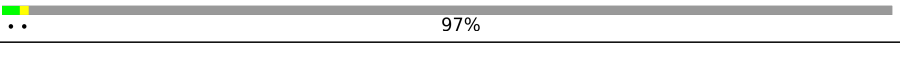
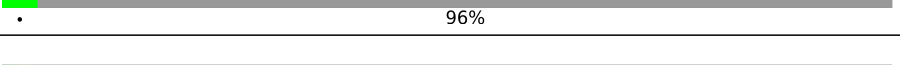
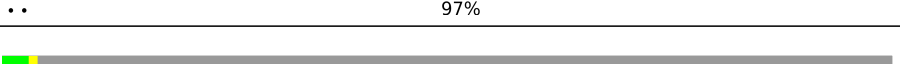
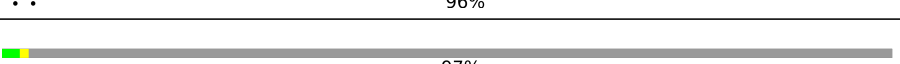
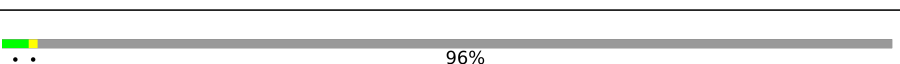
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	Zh	403	
5	AA	251	
5	AB	251	
5	AC	251	
5	AD	251	
5	AE	251	
6	AO	560	
6	AP	560	
6	AQ	560	
6	AR	560	
6	AS	560	
6	AT	560	
6	AU	560	
6	AV	560	
6	AW	560	
6	AX	560	
6	AY	560	
6	AZ	560	
6	Aa	560	
6	Ac	560	
6	Ad	560	
6	Ae	560	
6	Af	560	
6	Ag	560	
6	Ah	560	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
6	Ai	560	
6	Aj	560	
6	Ak	560	
6	Al	560	
6	Am	560	
6	An	560	
6	Ao	560	
6	Ap	560	
6	BG	560	
6	BH	560	
6	BI	560	
6	BJ	560	
6	BK	560	
6	BL	560	
6	BM	560	
6	BN	560	
6	BO	560	
6	BP	560	
6	BQ	560	
6	BR	560	
6	BS	560	
6	BT	560	
6	BU	560	
6	BV	560	
6	BW	560	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
6	BX	560	
6	UI	560	
6	UJ	560	
6	UK	560	
6	UL	560	
6	UM	560	
6	UN	560	
6	UO	560	
6	UP	560	
6	WA	560	
6	WB	560	
6	WC	560	
6	WD	560	
6	WE	560	
6	WF	560	
6	WG	560	
6	WH	560	
6	WI	560	
6	WJ	560	
6	WK	560	
6	WL	560	
6	WM	560	
6	WN	560	
6	WO	560	
6	WP	560	

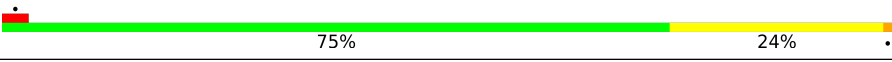
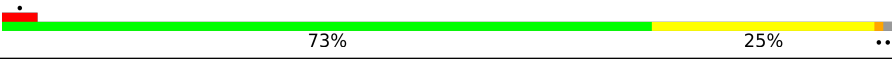
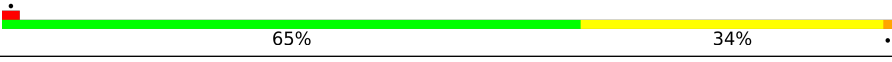
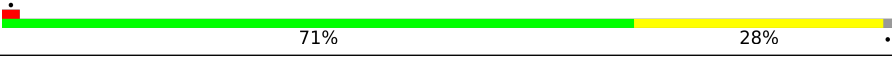
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
6	WQ	560	
6	WR	560	
6	WS	560	
6	WT	560	
6	WU	560	
6	WV	560	
6	WW	560	
7	Ab	89	
7	Aq	89	
7	Ar	89	
7	As	89	
8	At	264	
9	Au	245	
9	Av	245	
9	Aw	245	
9	Ax	245	
9	Ay	245	
10	A1	104	
10	A2	104	
10	A3	104	
10	A4	104	
10	A5	104	
10	Az	104	
11	A0	138	
11	A6	138	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
11	A7	138	
11	A8	138	
11	A9	138	
12	BA	134	
12	BB	134	
12	BC	134	
12	BD	134	
12	BE	134	
12	BF	134	

2 Entry composition

There are 12 unique types of molecules in this entry. The entry contains 338677 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Flagellar L-ring protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	B	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	C	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	D	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	E	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	F	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	G	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	H	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	I	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	J	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	K	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	L	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	M	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	N	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	O	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	P	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	Q	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	S	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	T	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	U	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	V	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	W	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	X	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	Y	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		
1	Z	211	Total	C	N	O	S	0	0
			1580	985	282	309	4		

- Molecule 2 is a protein called Flagellar P-ring protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	a	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	b	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	c	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	d	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	e	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	f	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	g	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	h	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	i	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	j	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
2	k	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	l	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	m	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	n	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	o	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	p	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	q	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	r	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	s	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	t	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	u	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	v	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	w	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	x	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	y	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		
2	z	303	Total	C	N	O	S	0	0
			2228	1364	405	446	13		

- Molecule 3 is a protein called Flagellar basal-body rod protein FlgG.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	0	248	Total	C	N	O	S	0	0
			1866	1154	327	379	6		
3	1	252	Total	C	N	O	S	0	0
			1894	1172	331	385	6		
3	2	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
3	3	260	Total 1949	C 1202	N 341	O 400	S 6	0	0
3	4	260	Total 1949	C 1202	N 341	O 400	S 6	0	0
3	5	260	Total 1949	C 1202	N 341	O 400	S 6	0	0
3	6	260	Total 1949	C 1202	N 341	O 400	S 6	0	0
3	7	260	Total 1949	C 1202	N 341	O 400	S 6	0	0
3	8	260	Total 1949	C 1202	N 341	O 400	S 6	0	0
3	9	260	Total 1949	C 1202	N 341	O 400	S 6	0	0
3	ZA	260	Total 1949	C 1202	N 341	O 400	S 6	0	0
3	ZB	260	Total 1949	C 1202	N 341	O 400	S 6	0	0
3	ZC	260	Total 1949	C 1202	N 341	O 400	S 6	0	0
3	ZD	260	Total 1949	C 1202	N 341	O 400	S 6	0	0
3	ZE	260	Total 1949	C 1202	N 341	O 400	S 6	0	0
3	AF	254	Total 1903	C 1175	N 334	O 389	S 5	0	0
3	AG	255	Total 1911	C 1181	N 335	O 390	S 5	0	0
3	AH	256	Total 1919	C 1186	N 336	O 391	S 6	0	0
3	AI	254	Total 1903	C 1175	N 334	O 389	S 5	0	0
3	AJ	255	Total 1911	C 1181	N 335	O 390	S 5	0	0
3	AK	243	Total 1823	C 1127	N 318	O 373	S 5	0	0
3	AL	248	Total 1866	C 1154	N 327	O 379	S 6	0	0
3	AM	248	Total 1866	C 1154	N 327	O 379	S 6	0	0
3	AN	248	Total 1866	C 1154	N 327	O 379	S 6	0	0

- Molecule 4 is a protein called Flagellar hook protein FlgE.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	ZF	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZG	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZH	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZI	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZJ	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZK	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZL	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZM	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZN	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZO	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZP	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZQ	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZR	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZS	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZT	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZU	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZV	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZW	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZX	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZY	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	ZZ	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
4	Za	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	Zb	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	Zc	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	Zd	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	Ze	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	Zf	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	Zg	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
4	Zh	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		

- Molecule 5 is a protein called Flagellar basal-body rod protein FlgF.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	AA	248	Total	C	N	O	S	0	0
			1804	1106	324	367	7		
5	AB	249	Total	C	N	O	S	0	0
			1812	1111	325	368	8		
5	AC	250	Total	C	N	O	S	0	0
			1820	1116	326	369	9		
5	AD	250	Total	C	N	O	S	0	0
			1820	1116	326	369	9		
5	AE	249	Total	C	N	O	S	0	0
			1812	1111	325	368	8		

- Molecule 6 is a protein called Flagellar M-ring protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	AR	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		
6	AS	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		
6	AT	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		
6	AU	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
6	AV	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	AW	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	AX	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	AY	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	AZ	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Aa	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Ac	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Ad	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Ae	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Af	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Ag	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Ah	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Ai	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Aj	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Ak	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Al	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Am	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	An	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Ao	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	Ap	164	Total 1275	C 776	N 237	O 259	S 3	0	0
6	AO	164	Total 1275	C 776	N 237	O 259	S 3	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
6	AP	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		
6	AQ	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		
6	UI	155	Total	C	N	O	S	0	0
			1172	733	211	226	2		
6	UJ	155	Total	C	N	O	S	0	0
			1172	733	211	226	2		
6	UK	155	Total	C	N	O	S	0	0
			1172	733	211	226	2		
6	UL	155	Total	C	N	O	S	0	0
			1172	733	211	226	2		
6	UM	155	Total	C	N	O	S	0	0
			1172	733	211	226	2		
6	UN	155	Total	C	N	O	S	0	0
			1172	733	211	226	2		
6	UO	155	Total	C	N	O	S	0	0
			1172	733	211	226	2		
6	UP	155	Total	C	N	O	S	0	0
			1172	733	211	226	2		
6	WA	113	Total	C	N	O	S	0	0
			849	534	148	166	1		
6	WB	111	Total	C	N	O	S	0	0
			836	526	146	163	1		
6	WC	108	Total	C	N	O	S	0	0
			812	510	142	159	1		
6	WD	110	Total	C	N	O	S	0	0
			827	522	144	160	1		
6	WE	112	Total	C	N	O	S	0	0
			843	531	147	164	1		
6	WF	111	Total	C	N	O	S	0	0
			834	526	145	162	1		
6	WG	112	Total	C	N	O	S	0	0
			843	531	147	164	1		
6	WH	95	Total	C	N	O	S	0	0
			703	439	126	137	1		
6	WI	95	Total	C	N	O	S	0	0
			703	439	126	137	1		
6	WJ	99	Total	C	N	O	S	0	0
			737	462	131	143	1		
6	WK	98	Total	C	N	O	S	0	0
			729	456	130	142	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
6	WL	85	Total	C	N	O	S	0	0
			622	389	110	122	1		
6	WM	82	Total	C	N	O	S	0	0
			596	372	107	116	1		
6	WN	84	Total	C	N	O	S	0	0
			611	380	109	121	1		
6	WO	96	Total	C	N	O	S	0	0
			714	448	127	138	1		
6	WP	100	Total	C	N	O	S	0	0
			741	464	132	144	1		
6	WQ	111	Total	C	N	O	S	0	0
			834	526	145	162	1		
6	WR	111	Total	C	N	O	S	0	0
			834	526	145	162	1		
6	WS	111	Total	C	N	O	S	0	0
			834	526	145	162	1		
6	WT	111	Total	C	N	O	S	0	0
			834	526	145	162	1		
6	WU	112	Total	C	N	O	S	0	0
			843	531	147	164	1		
6	WV	110	Total	C	N	O	S	0	0
			827	521	144	161	1		
6	WW	111	Total	C	N	O	S	0	0
			834	526	145	162	1		
6	BG	13	Total	C	N	O		0	0
			81	50	15	16			
6	BH	16	Total	C	N	O		0	0
			103	64	19	20			
6	BI	20	Total	C	N	O		0	0
			133	83	23	27			
6	BJ	16	Total	C	N	O		0	0
			103	64	19	20			
6	BK	21	Total	C	N	O		0	0
			140	88	24	28			
6	BL	16	Total	C	N	O		0	0
			103	64	19	20			
6	BM	21	Total	C	N	O		0	0
			140	88	24	28			
6	BN	16	Total	C	N	O		0	0
			103	64	19	20			
6	BO	20	Total	C	N	O		0	0
			133	83	23	27			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
6	BP	16	Total	C	N	O		0	0
			103	64	19	20			
6	BQ	21	Total	C	N	O		0	0
			140	88	24	28			
6	BR	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		
6	BS	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		
6	BT	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		
6	BU	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		
6	BV	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		
6	BW	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		
6	BX	164	Total	C	N	O	S	0	0
			1275	776	237	259	3		

- Molecule 7 is a protein called Flagellar biosynthetic protein FliQ.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	Ab	89	Total	C	N	O	S	0	0
			670	449	100	114	7		
7	Aq	89	Total	C	N	O	S	0	0
			670	449	100	114	7		
7	Ar	89	Total	C	N	O	S	0	0
			670	449	100	114	7		
7	As	89	Total	C	N	O	S	0	0
			670	449	100	114	7		

- Molecule 8 is a protein called Flagellar biosynthetic protein FliR.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	At	253	Total	C	N	O	S	0	0
			1945	1305	307	318	15		

- Molecule 9 is a protein called Flagellar biosynthetic protein FliP.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	Au	207	Total	C	N	O	S	0	0
			1605	1072	249	272	12		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
9	Av	209	Total	C	N	O	S	0	0
			1626	1086	252	276	12		
9	Aw	208	Total	C	N	O	S	0	0
			1614	1077	251	274	12		
9	Ax	208	Total	C	N	O	S	0	0
			1614	1077	251	274	12		
9	Ay	209	Total	C	N	O	S	0	0
			1623	1084	251	276	12		

- Molecule 10 is a protein called Flagellar hook-basal body complex protein FliE.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	Az	59	Total	C	N	O	S	0	0
			429	265	74	83	7		
10	A1	91	Total	C	N	O	S	0	0
			672	415	121	129	7		
10	A2	93	Total	C	N	O	S	0	0
			686	424	123	132	7		
10	A3	93	Total	C	N	O	S	0	0
			686	424	123	132	7		
10	A4	93	Total	C	N	O	S	0	0
			686	424	123	132	7		
10	A5	92	Total	C	N	O	S	0	0
			679	420	122	130	7		

- Molecule 11 is a protein called Flagellar basal body rod protein FlgB.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	A6	134	Total	C	N	O	S	0	0
			1030	633	189	203	5		
11	A7	121	Total	C	N	O	S	0	0
			942	583	172	182	5		
11	A8	125	Total	C	N	O	S	0	0
			967	598	177	187	5		
11	A9	127	Total	C	N	O	S	0	0
			982	606	182	189	5		
11	A0	123	Total	C	N	O	S	0	0
			950	588	172	185	5		

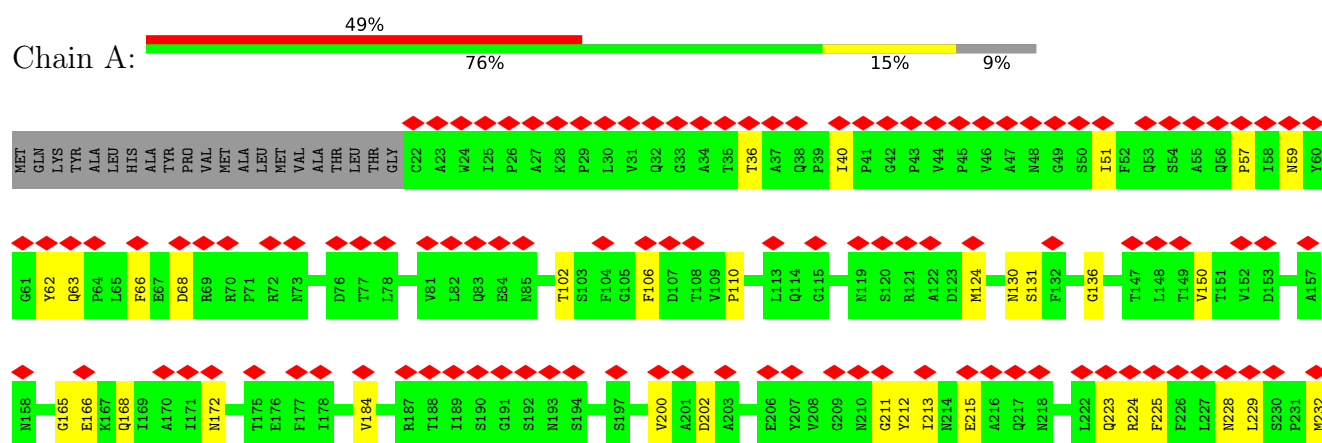
- Molecule 12 is a protein called Flagellar basal-body rod protein FlgC.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	BA	133	Total	C	N	O	S	0	0
			969	604	167	193	5		
12	BB	132	Total	C	N	O	S	0	0
			964	601	166	192	5		
12	BC	133	Total	C	N	O	S	0	0
			969	604	167	193	5		
12	BD	133	Total	C	N	O	S	0	0
			969	604	167	193	5		
12	BE	133	Total	C	N	O	S	0	0
			969	604	167	193	5		
12	BF	133	Total	C	N	O	S	0	0
			969	604	167	193	5		

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.

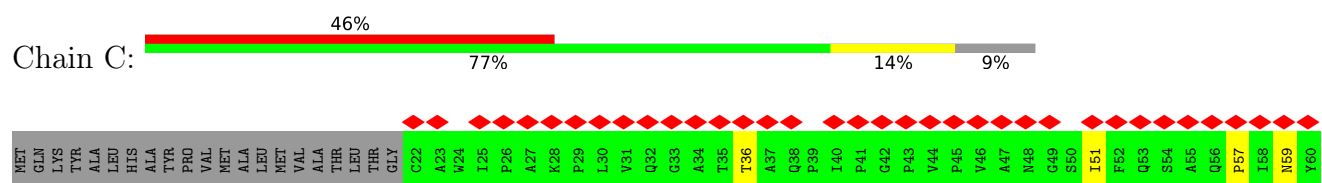
• Molecule 1: Flagellar L-ring protein

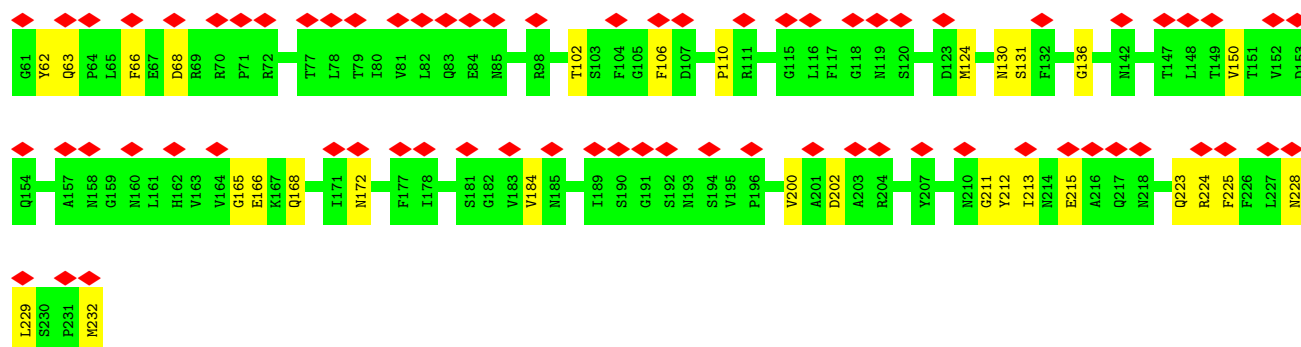


• Molecule 1: Flagellar L-ring protein

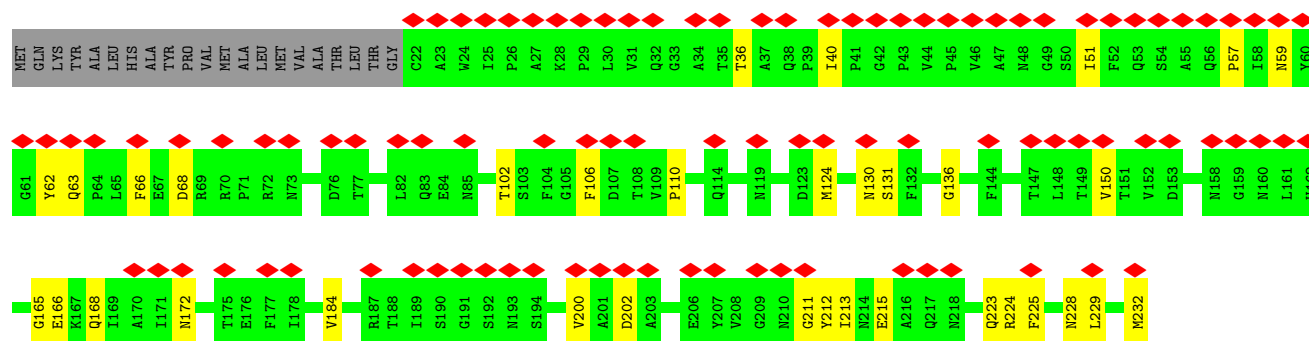
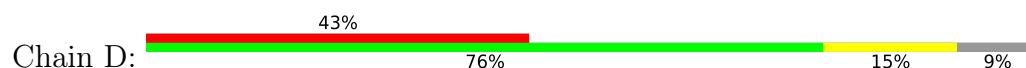


• Molecule 1: Flagellar L-ring protein

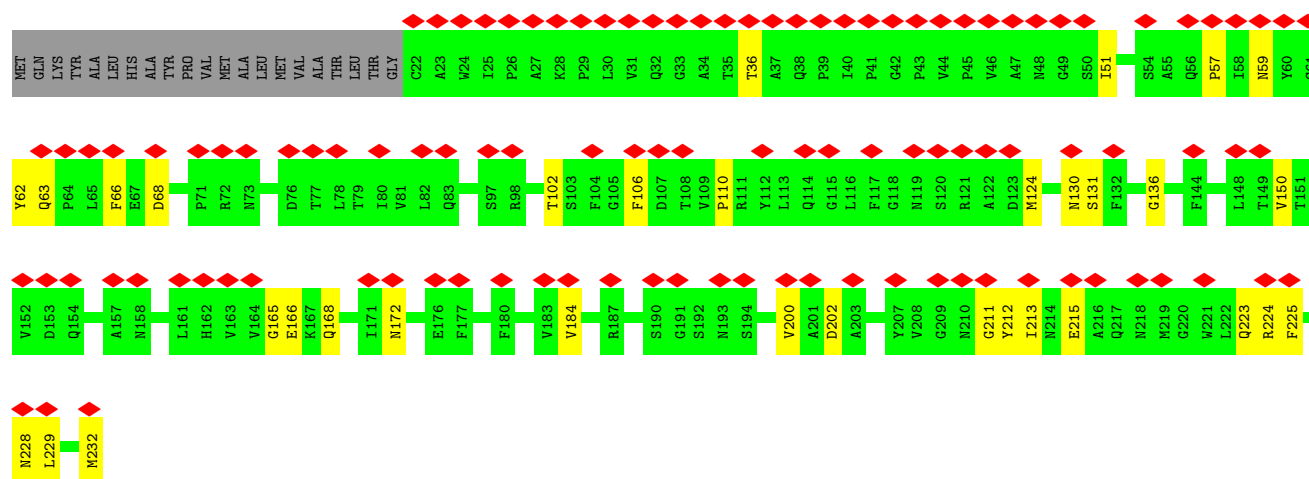
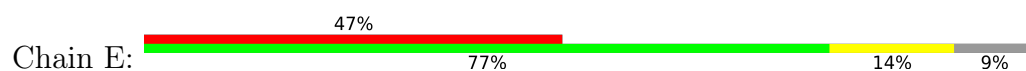




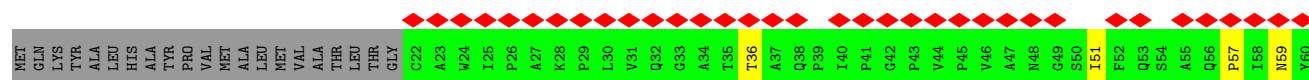
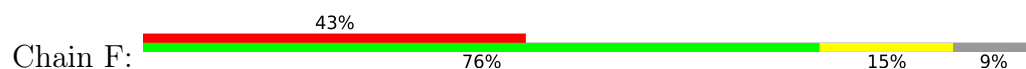
• Molecule 1: Flagellar L-ring protein

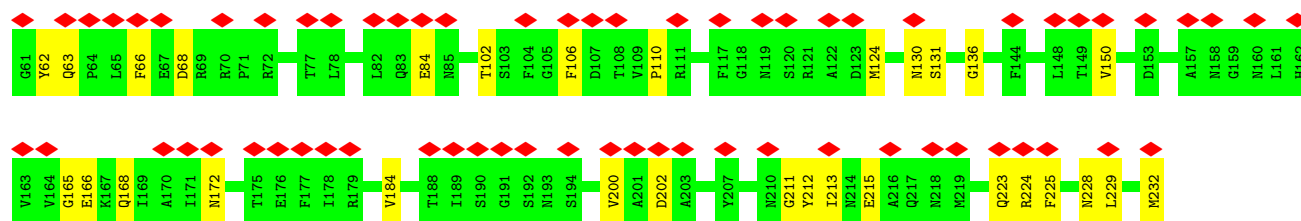


• Molecule 1: Flagellar L-ring protein

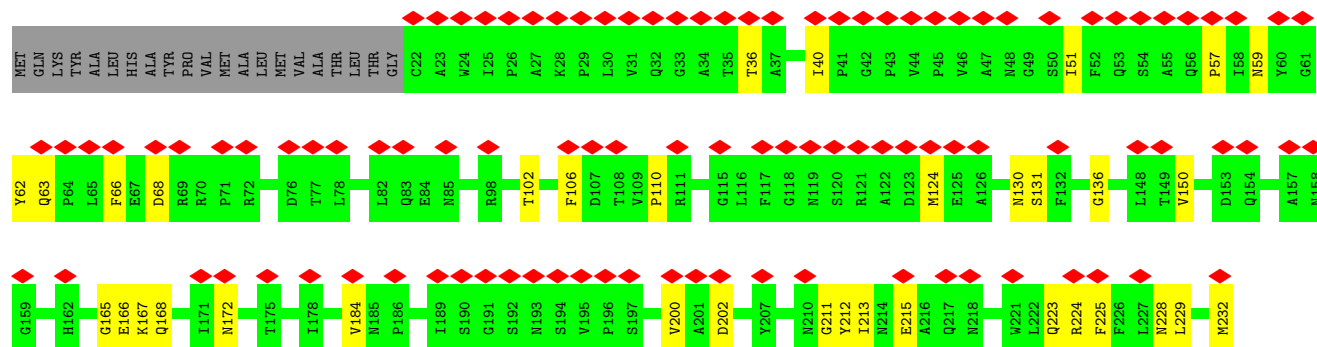
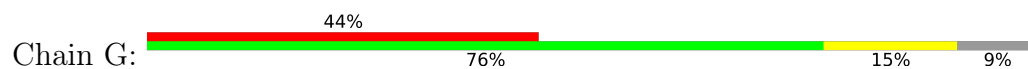


• Molecule 1: Flagellar L-ring protein

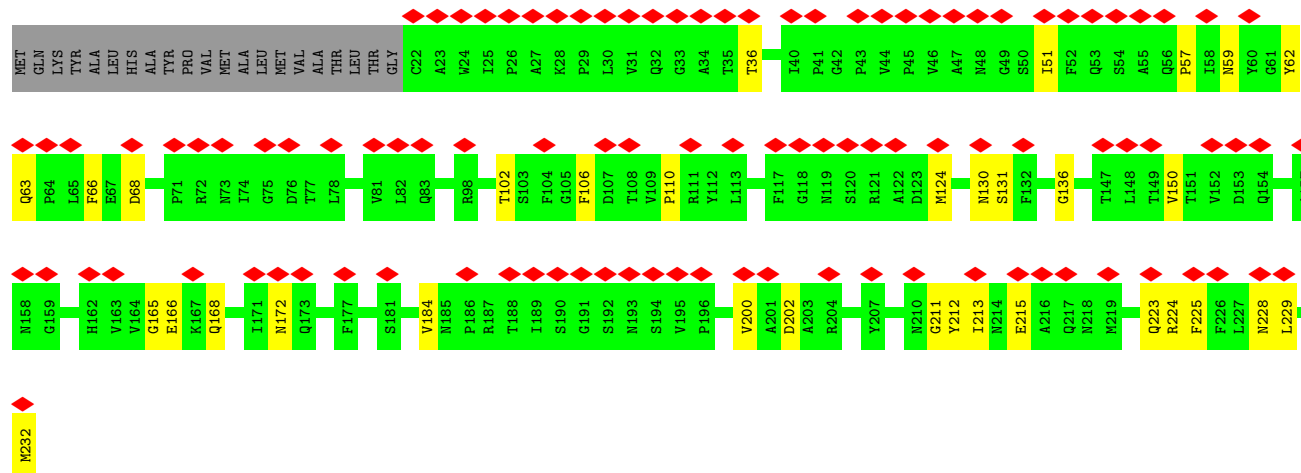
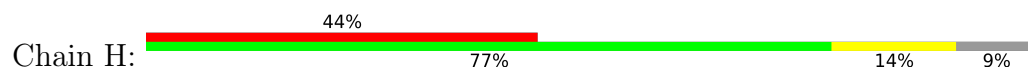




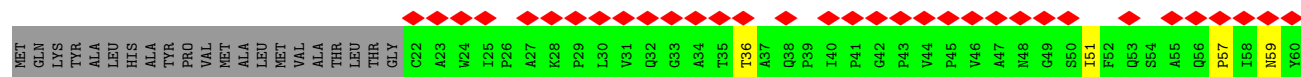
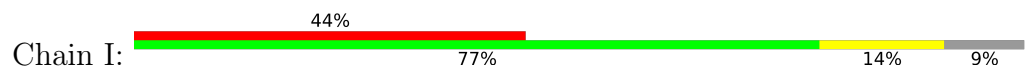
• Molecule 1: Flagellar L-ring protein

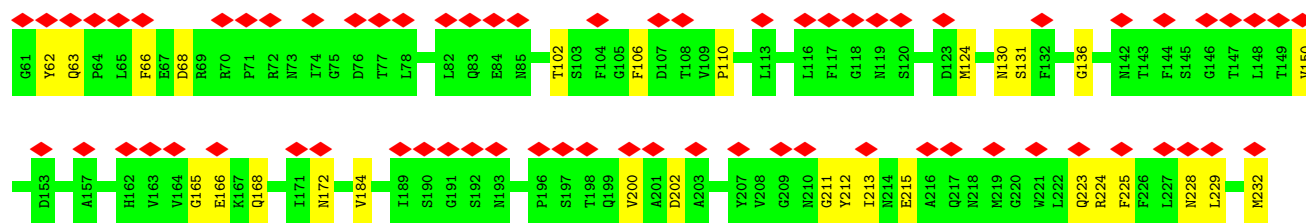


• Molecule 1: Flagellar L-ring protein

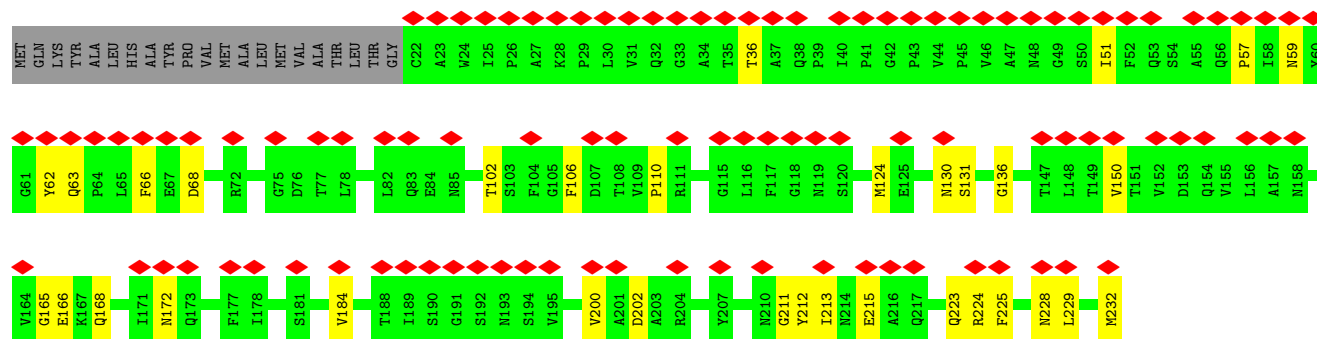
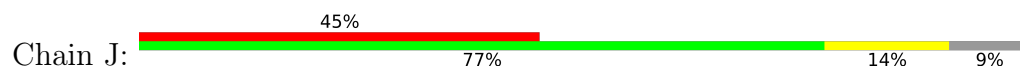


• Molecule 1: Flagellar L-ring protein

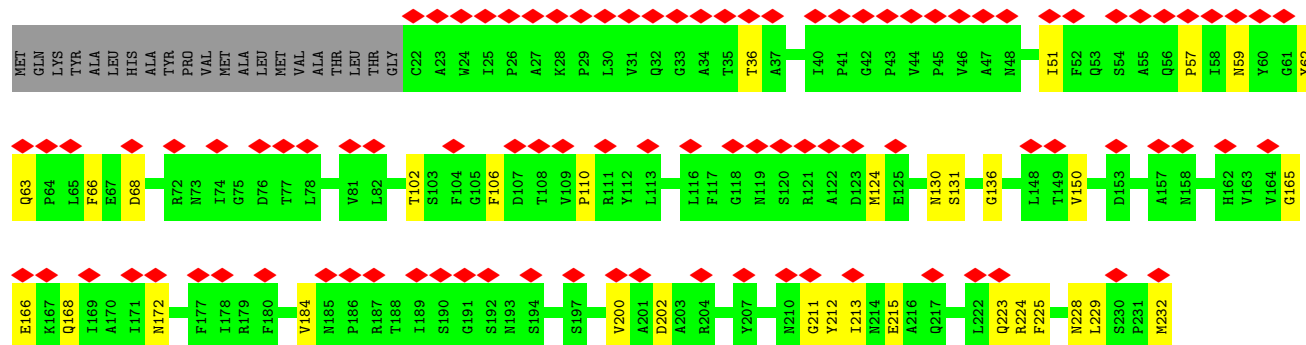
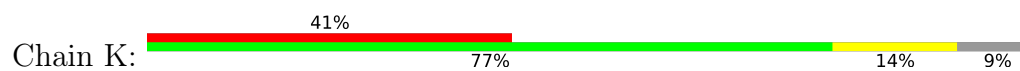




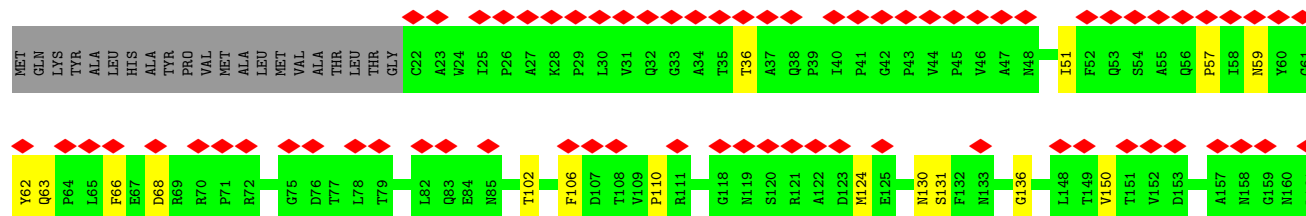
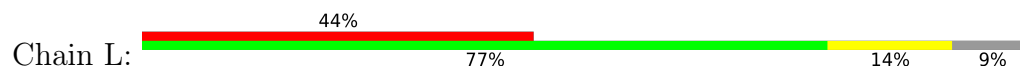
• Molecule 1: Flagellar L-ring protein



• Molecule 1: Flagellar L-ring protein

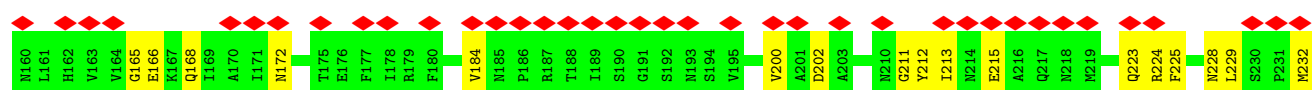
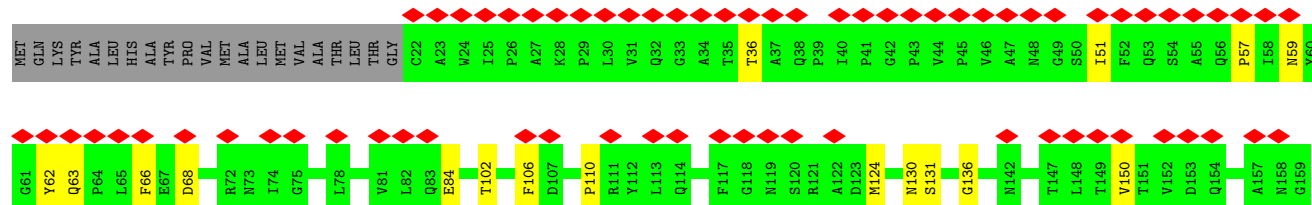
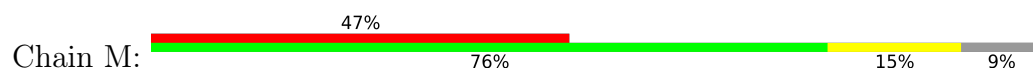


• Molecule 1: Flagellar L-ring protein

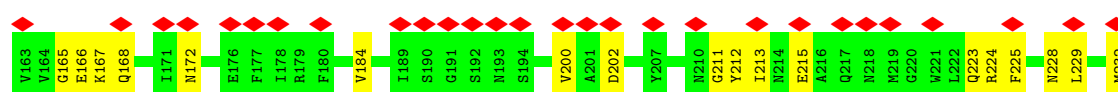
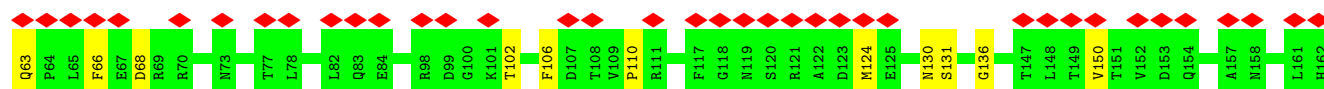
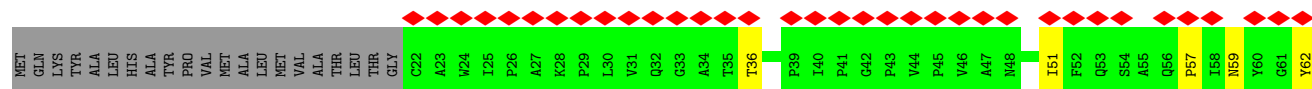
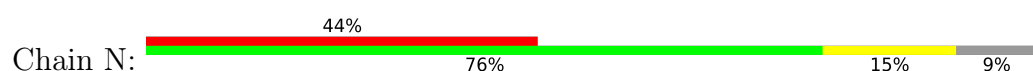




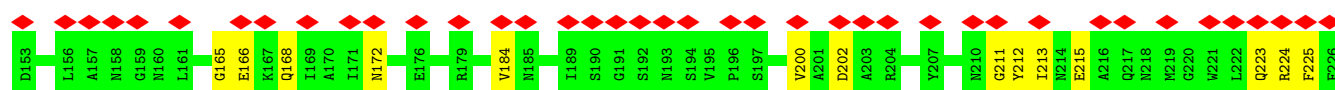
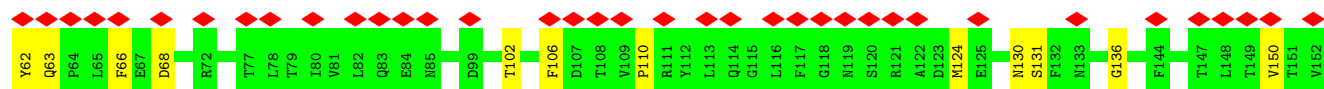
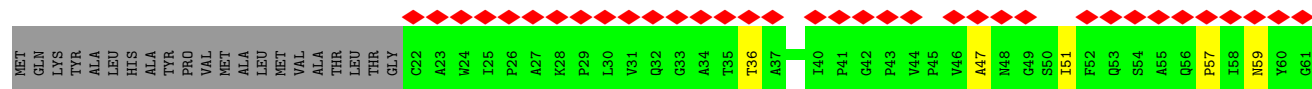
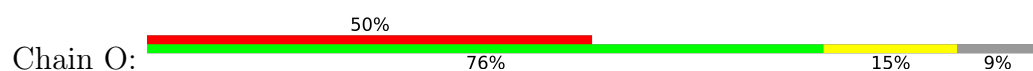
• Molecule 1: Flagellar L-ring protein

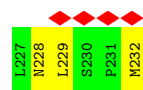


• Molecule 1: Flagellar L-ring protein

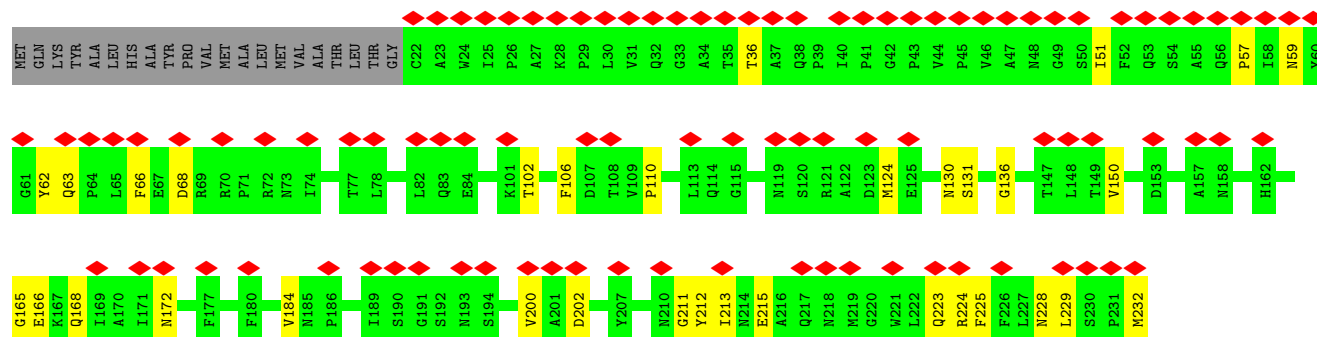
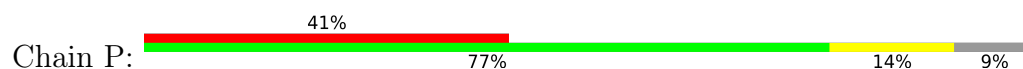


• Molecule 1: Flagellar L-ring protein

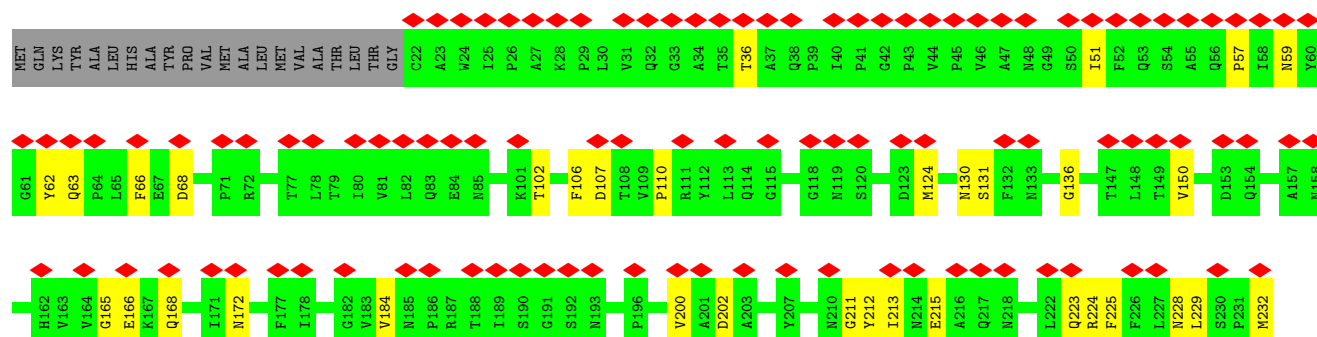
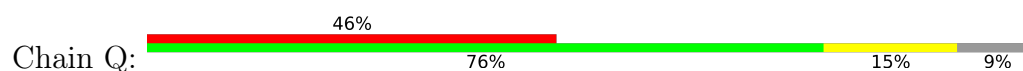




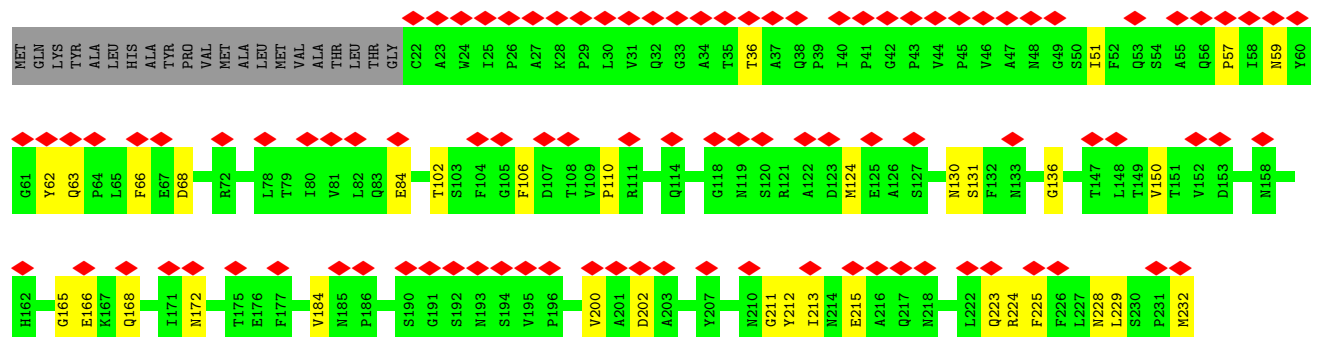
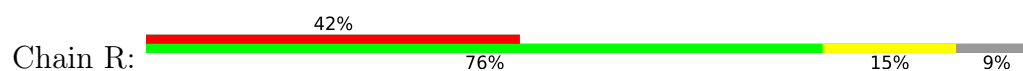
• Molecule 1: Flagellar L-ring protein



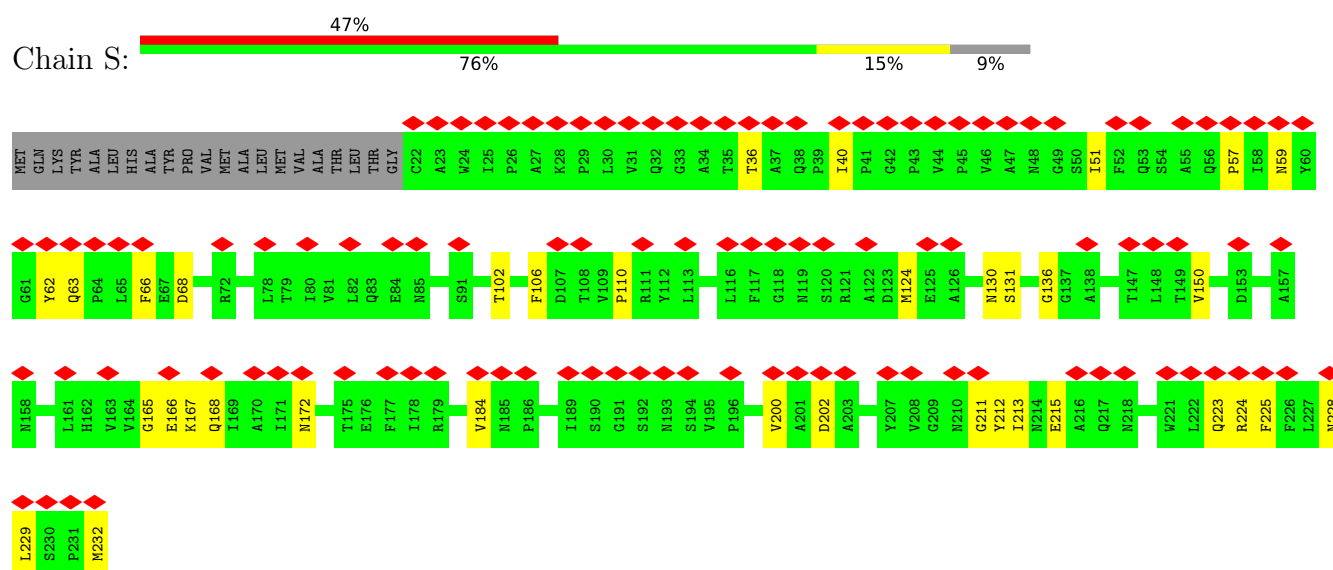
• Molecule 1: Flagellar L-ring protein



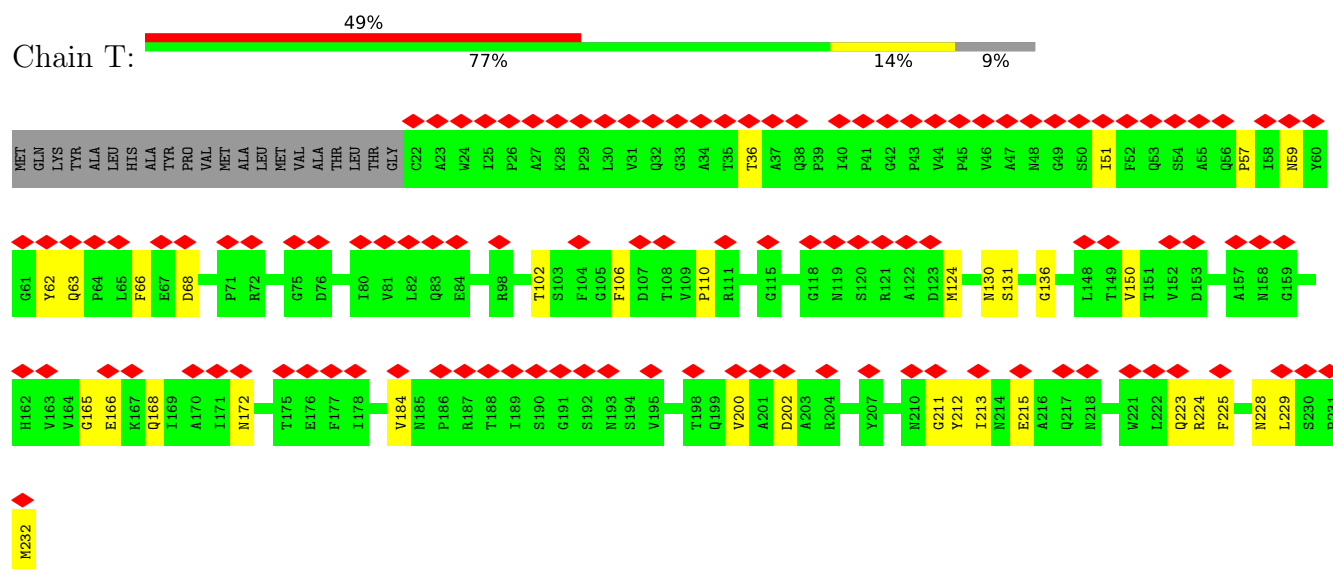
• Molecule 1: Flagellar L-ring protein



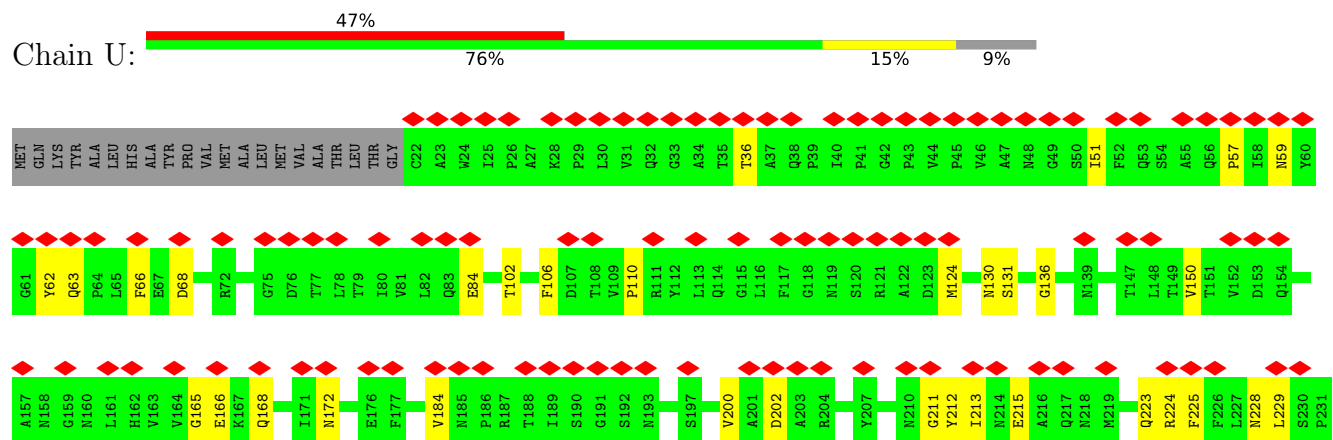
• Molecule 1: Flagellar L-ring protein



- Molecule 1: Flagellar L-ring protein

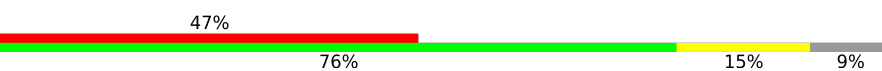


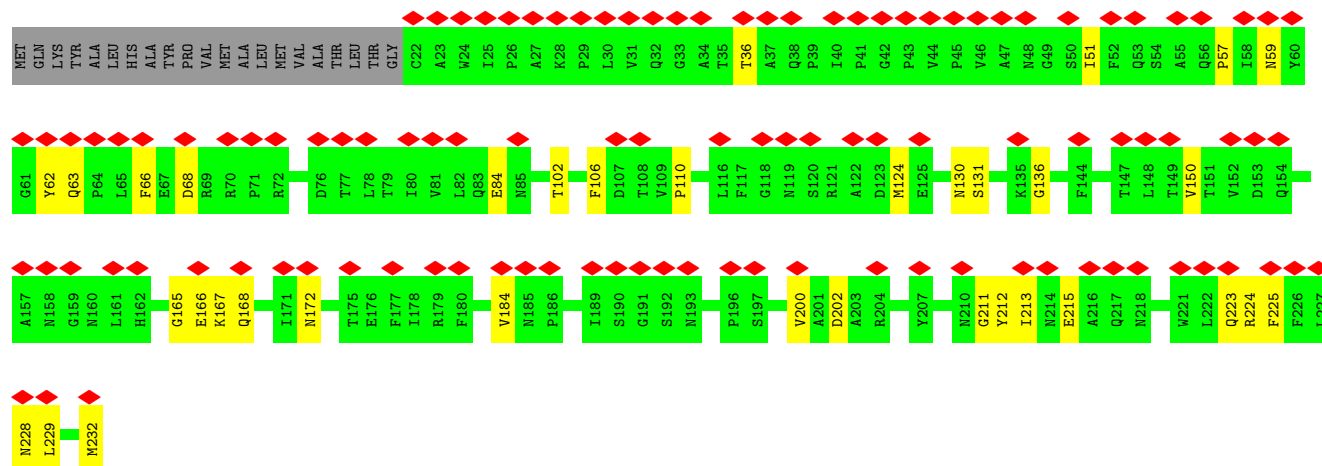
- Molecule 1: Flagellar L-ring protein



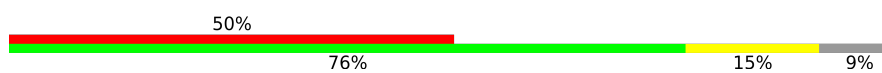
♦
M232

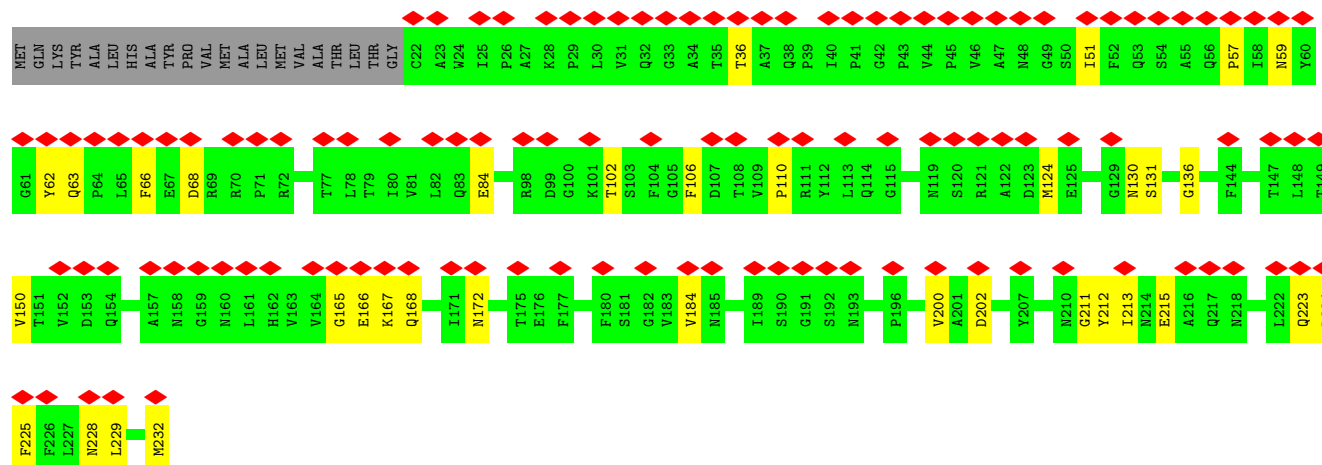
• Molecule 1: Flagellar L-ring protein

Chain V: 

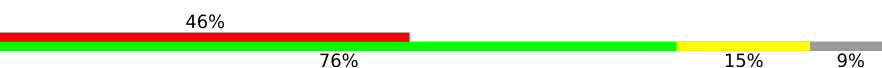


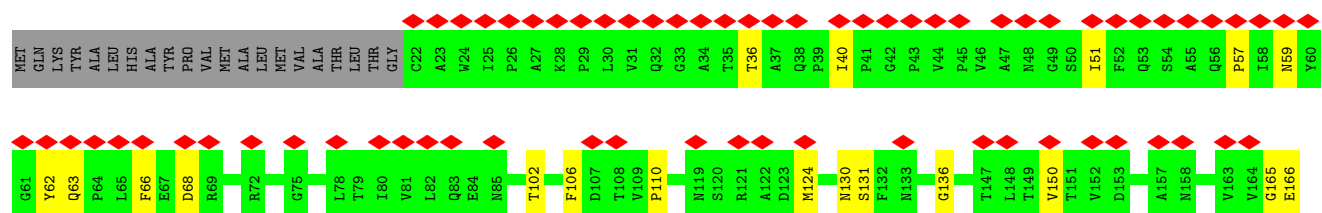
• Molecule 1: Flagellar L-ring protein

Chain W: 



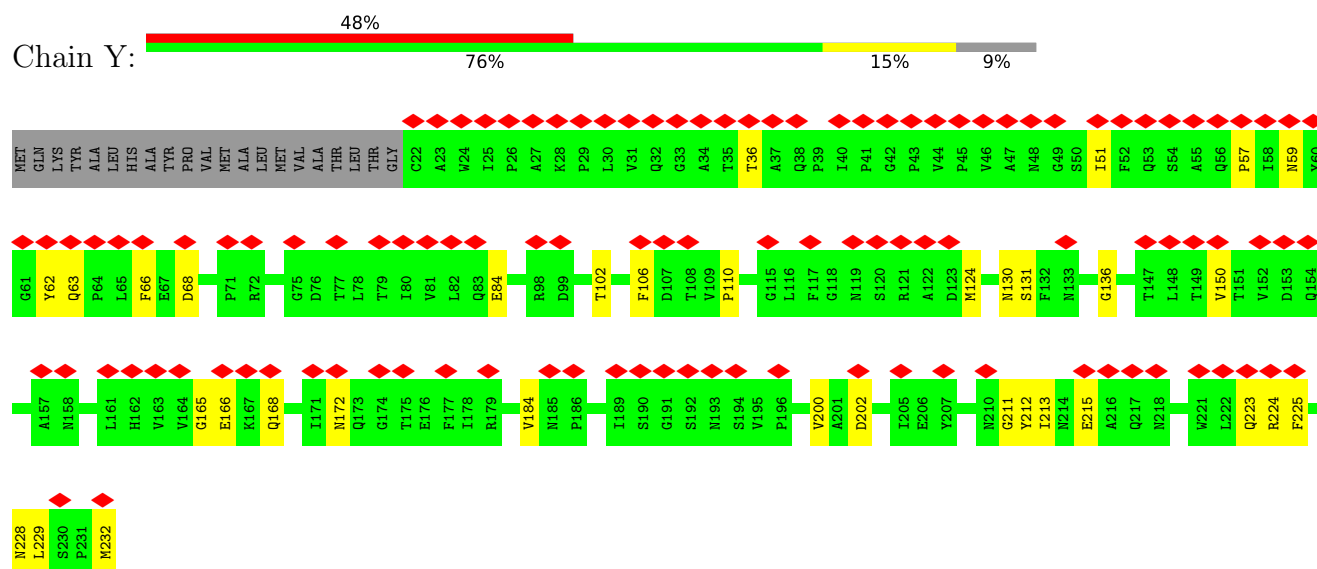
• Molecule 1: Flagellar L-ring protein

Chain X: 

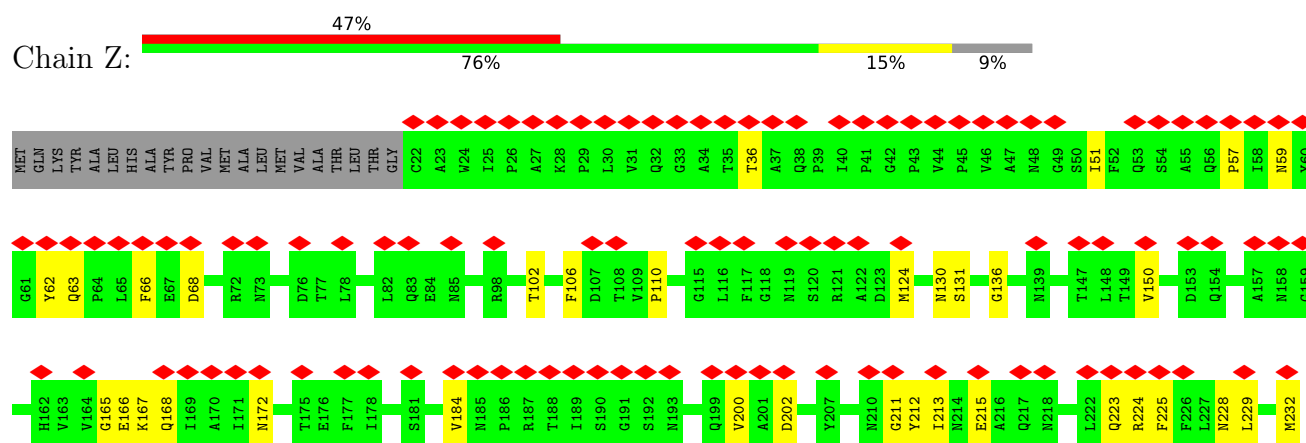




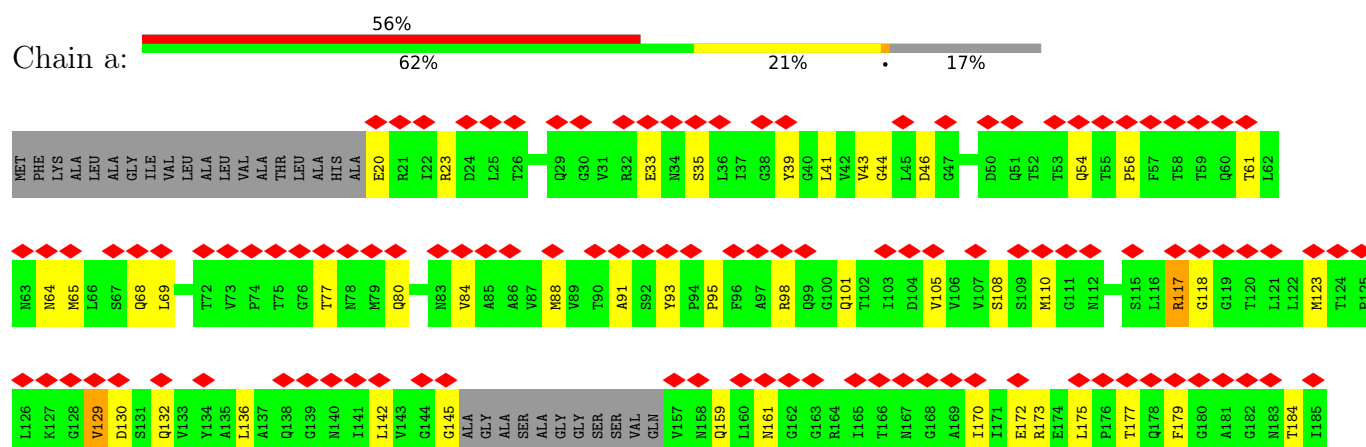
• Molecule 1: Flagellar L-ring protein

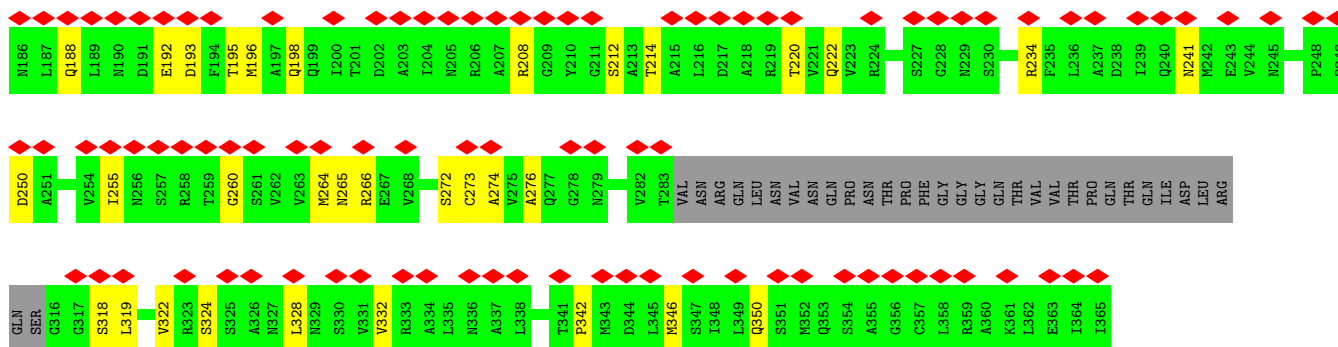


• Molecule 1: Flagellar L-ring protein

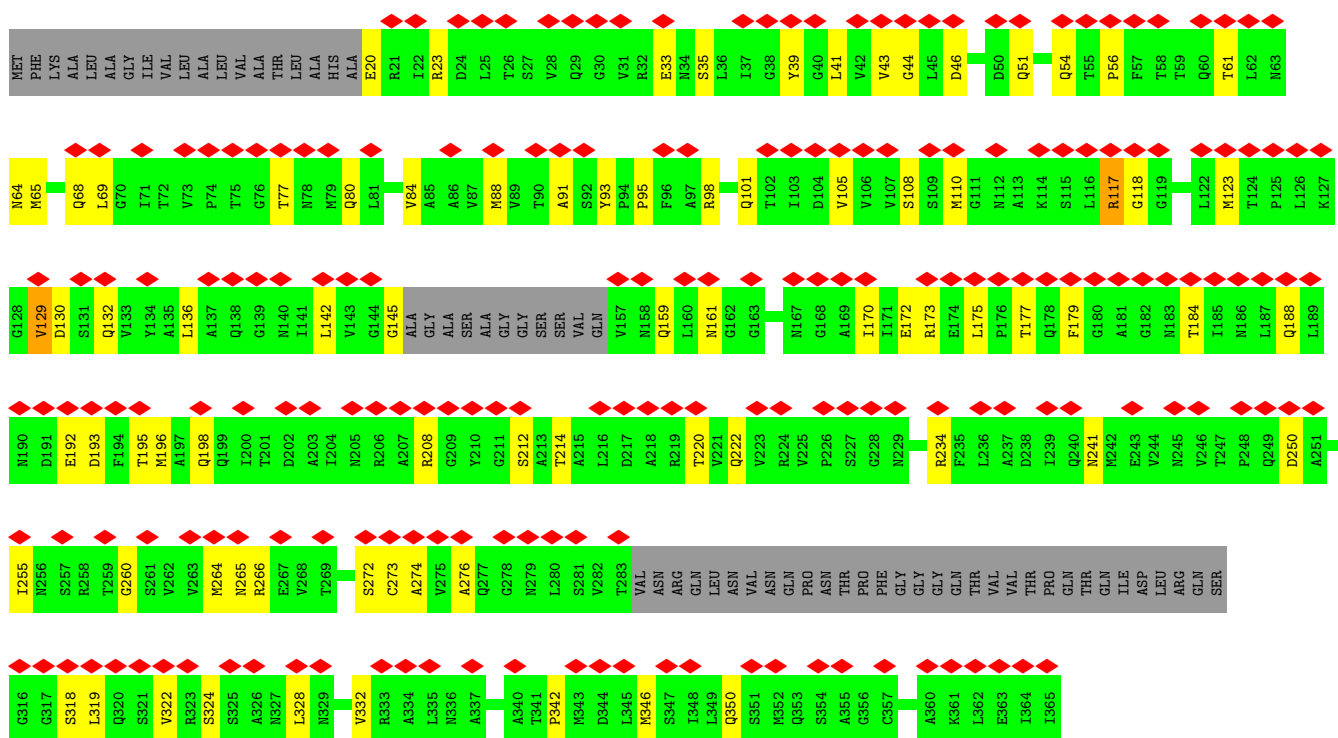


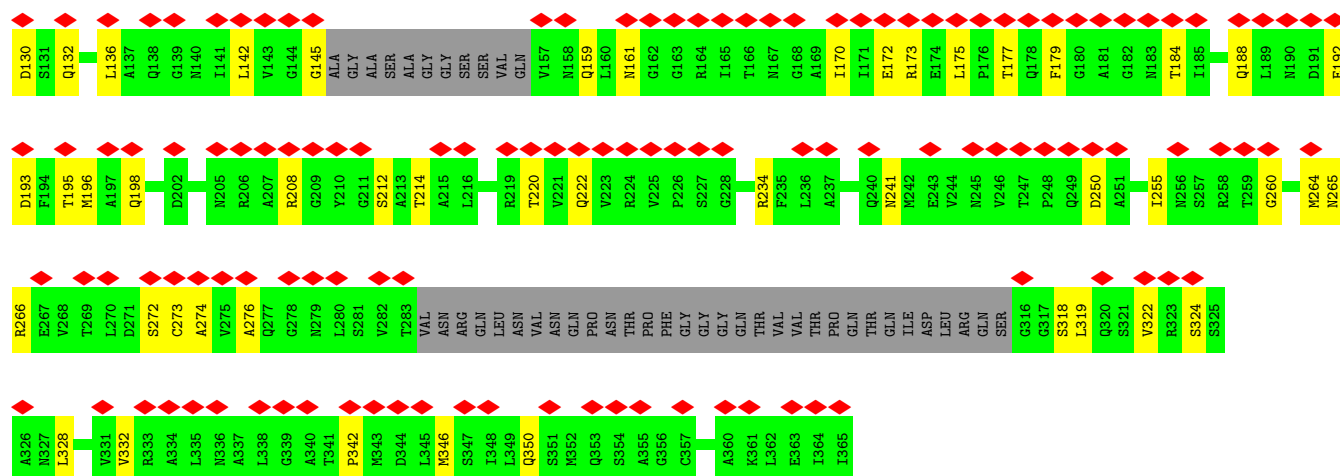
• Molecule 2: Flagellar P-ring protein



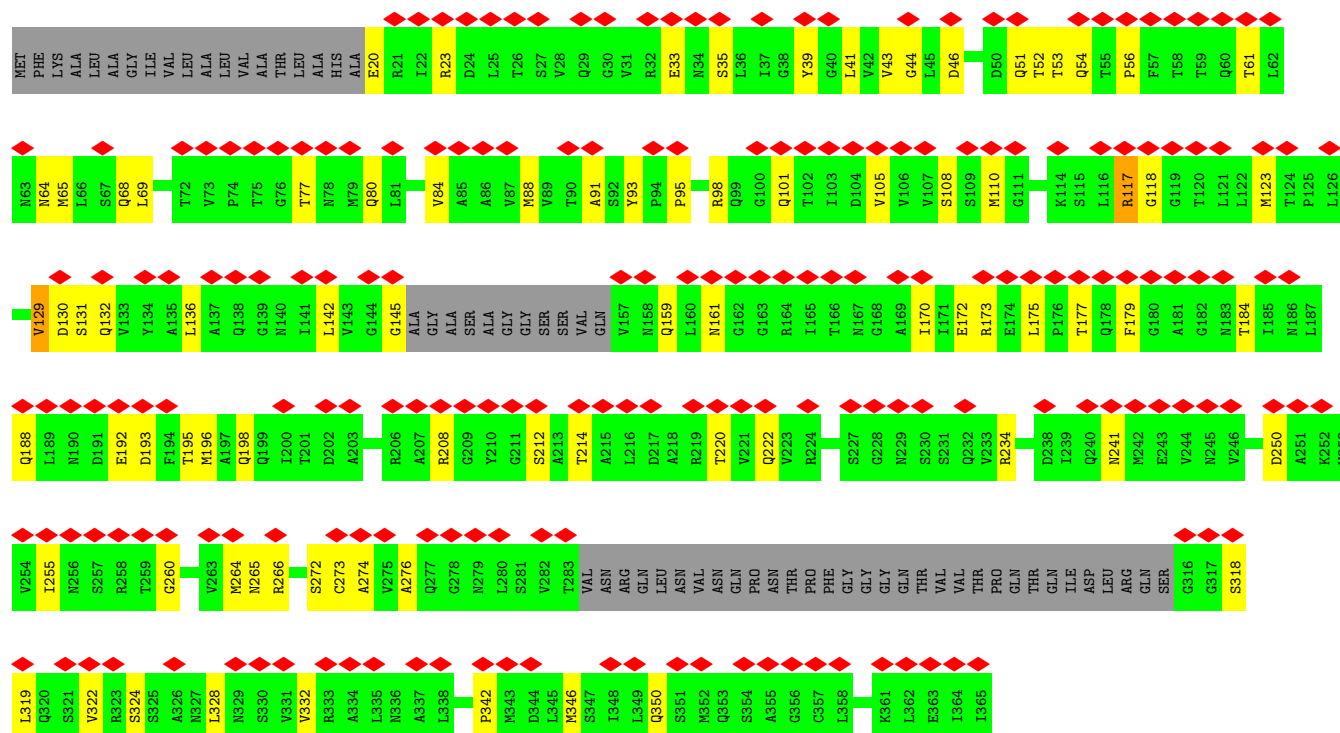


• Molecule 2: Flagellar P-ring protein

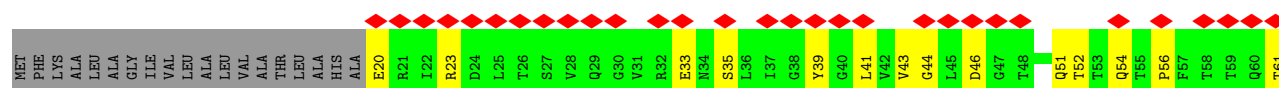


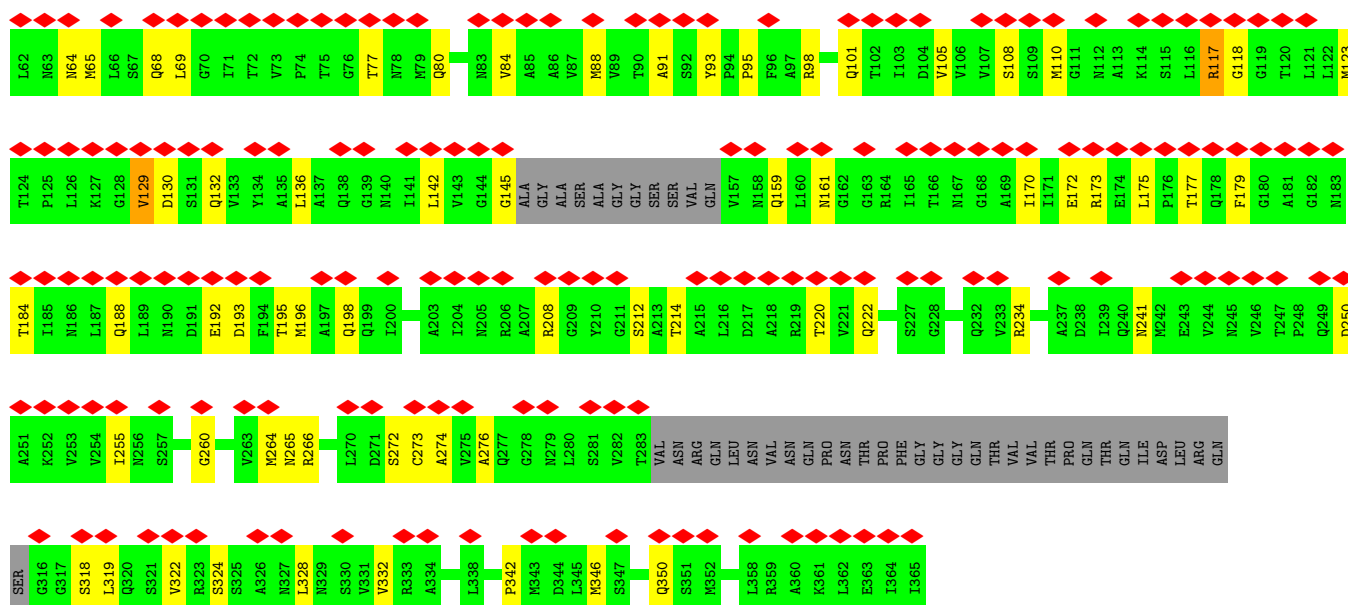


• Molecule 2: Flagellar P-ring protein

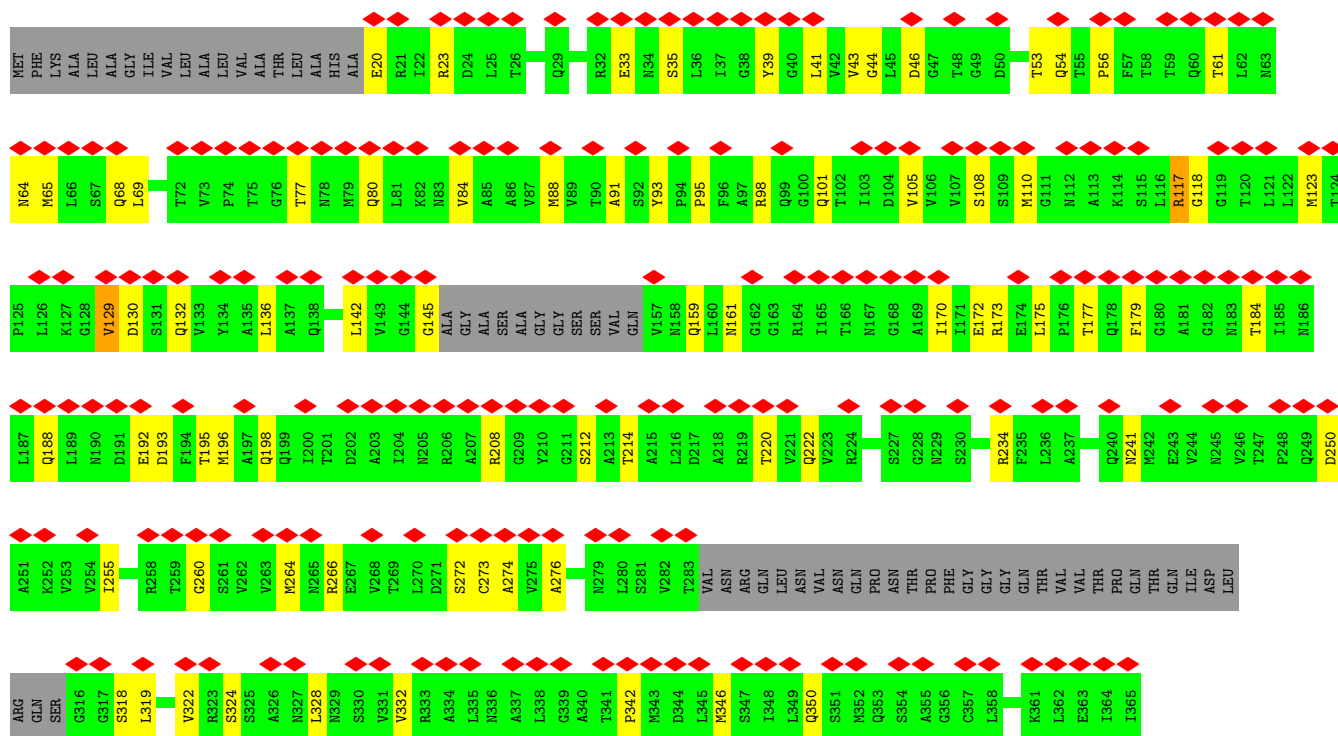


• Molecule 2: Flagellar P-ring protein



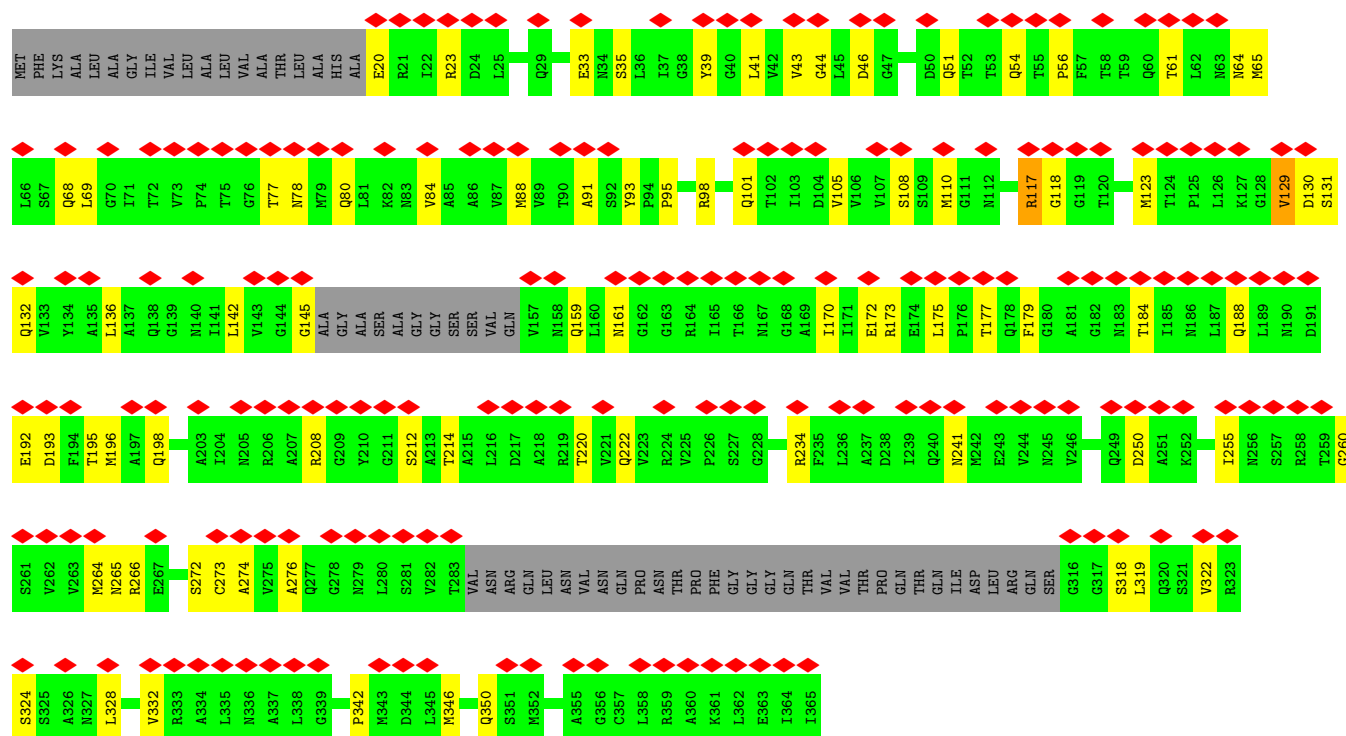


• Molecule 2: Flagellar P-ring protein

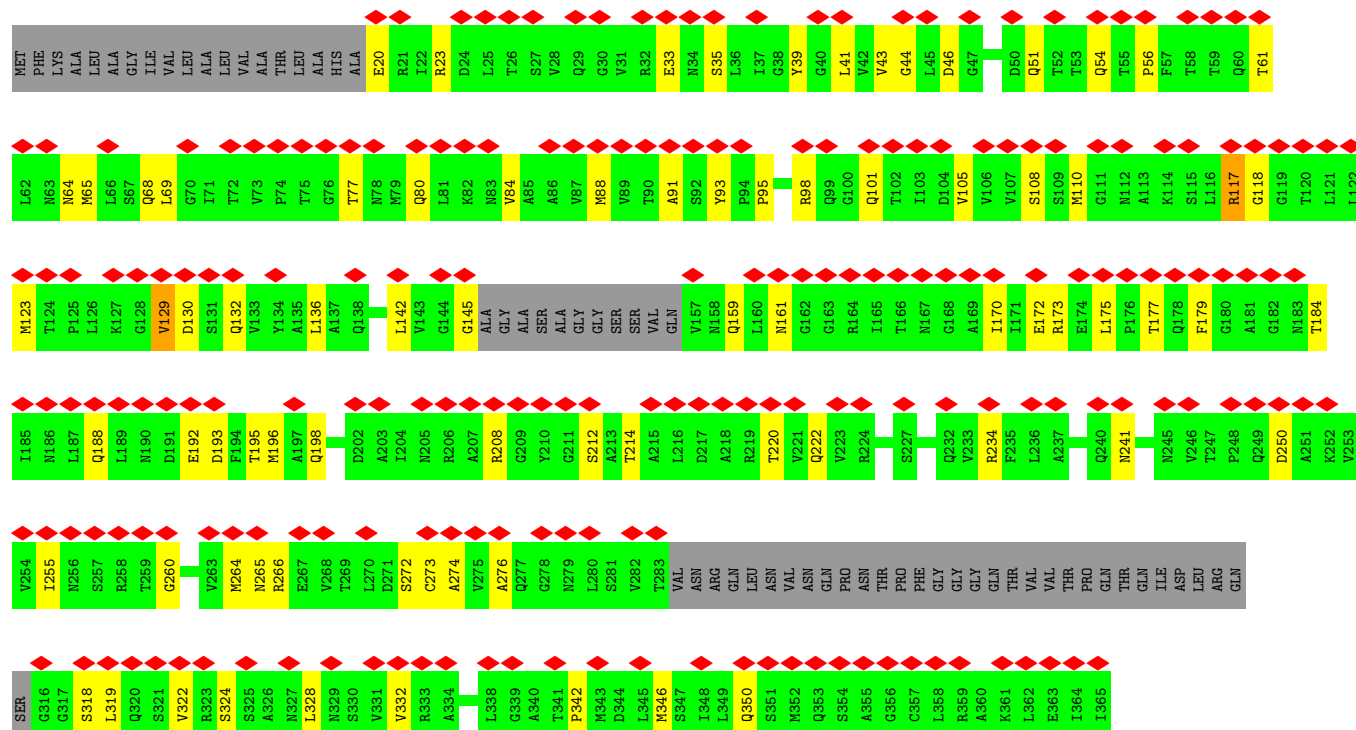


• Molecule 2: Flagellar P-ring protein

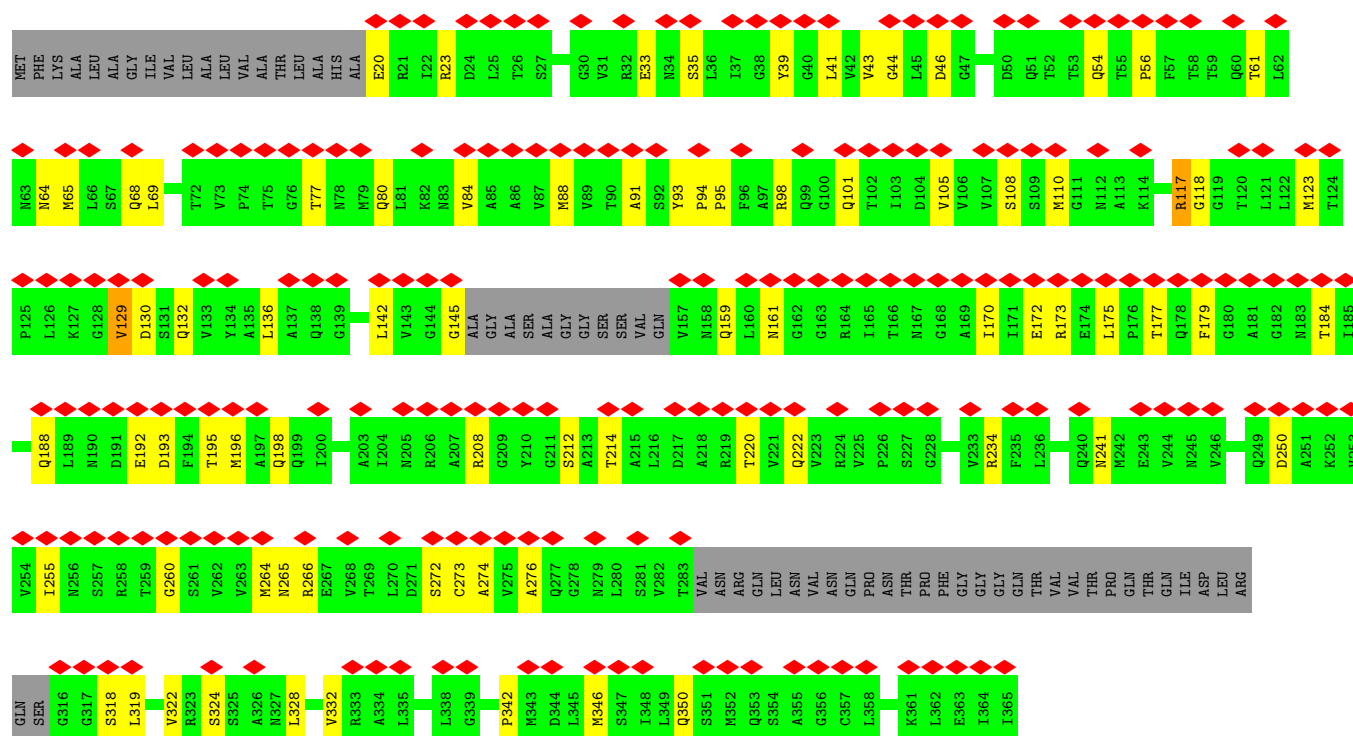




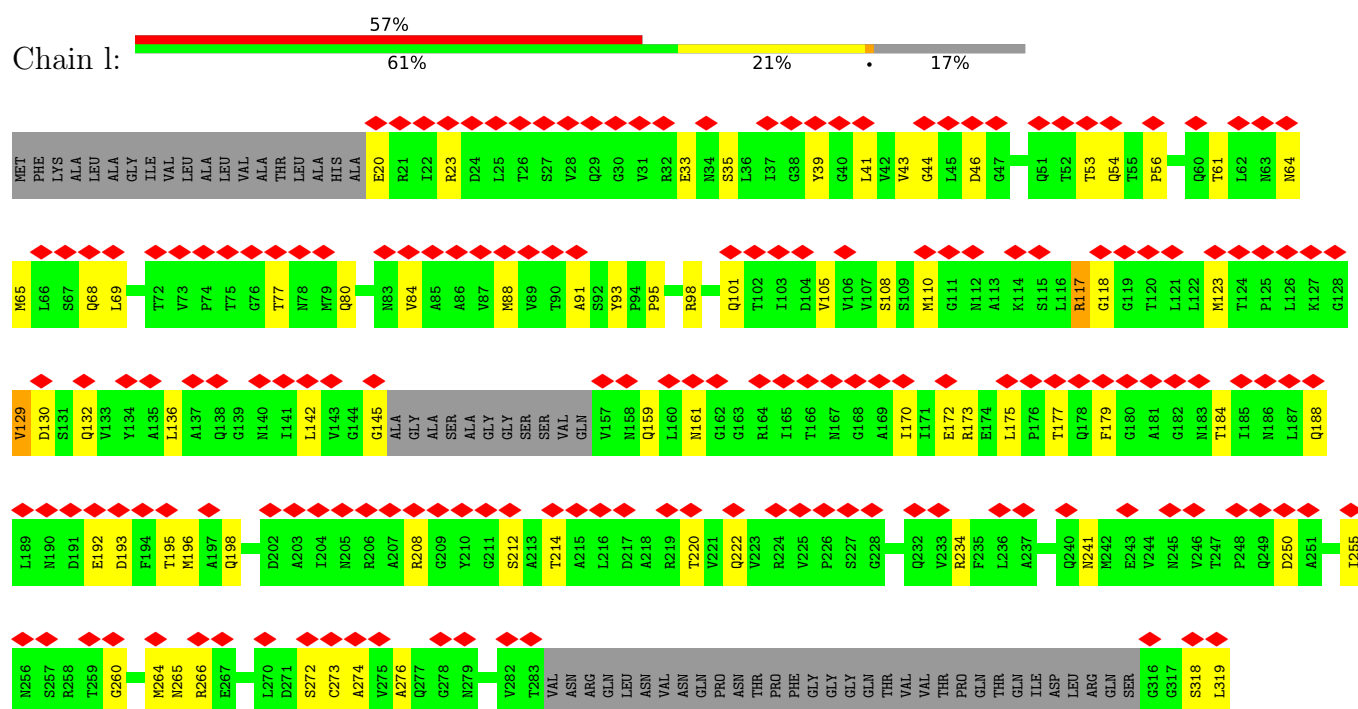
• Molecule 2: Flagellar P-ring protein

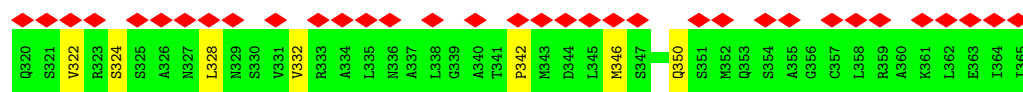


• Molecule 2: Flagellar P-ring protein

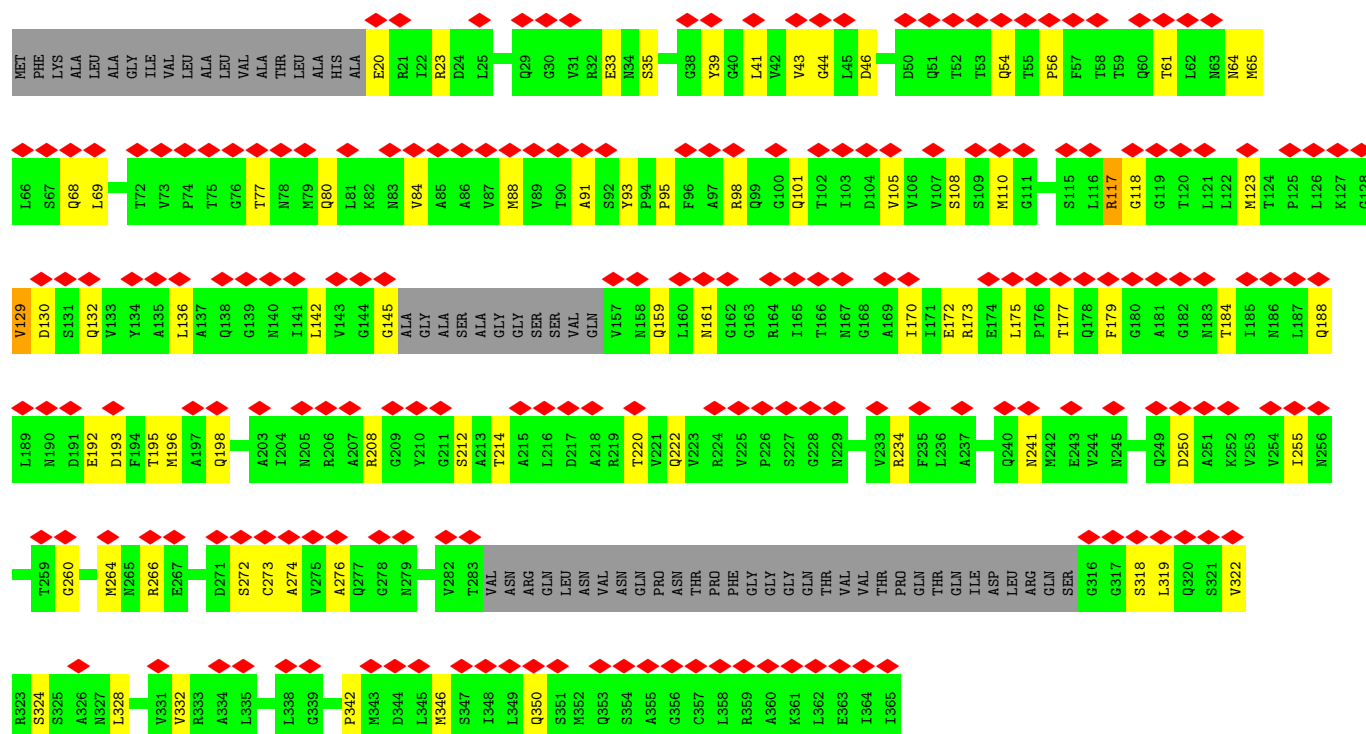


Chain k:

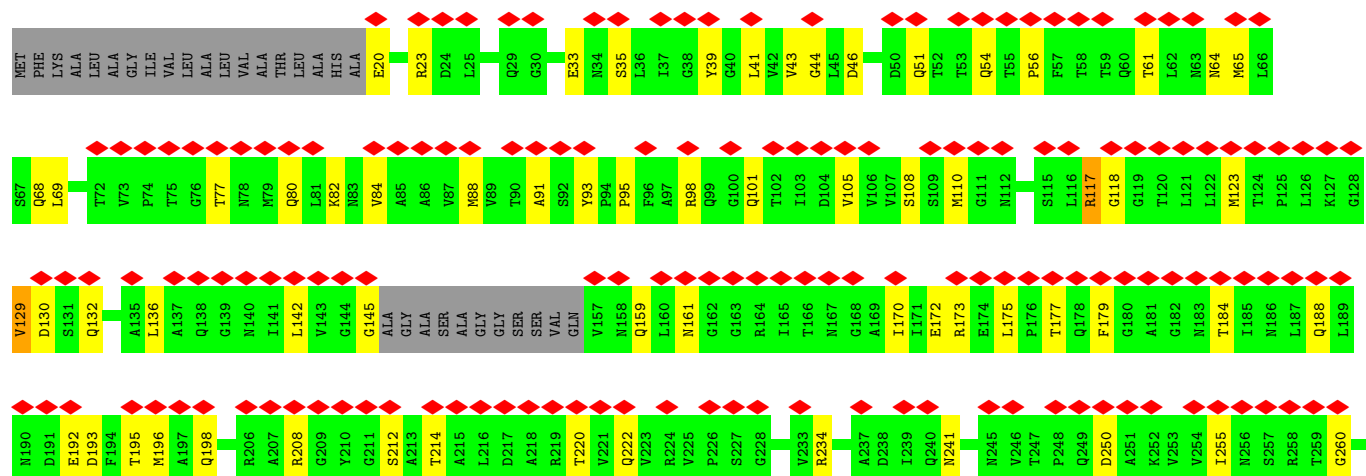


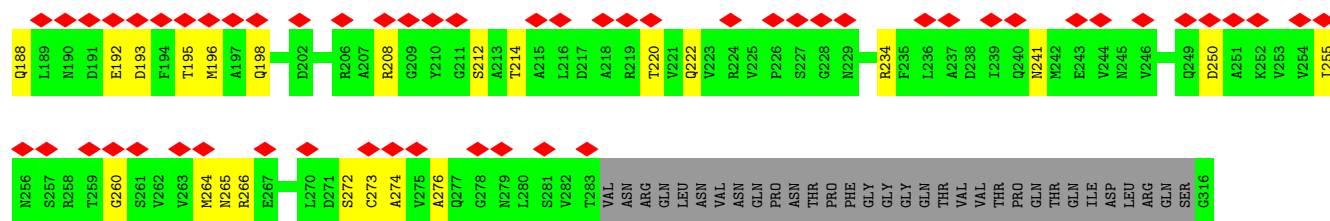


• Molecule 2: Flagellar P-ring protein

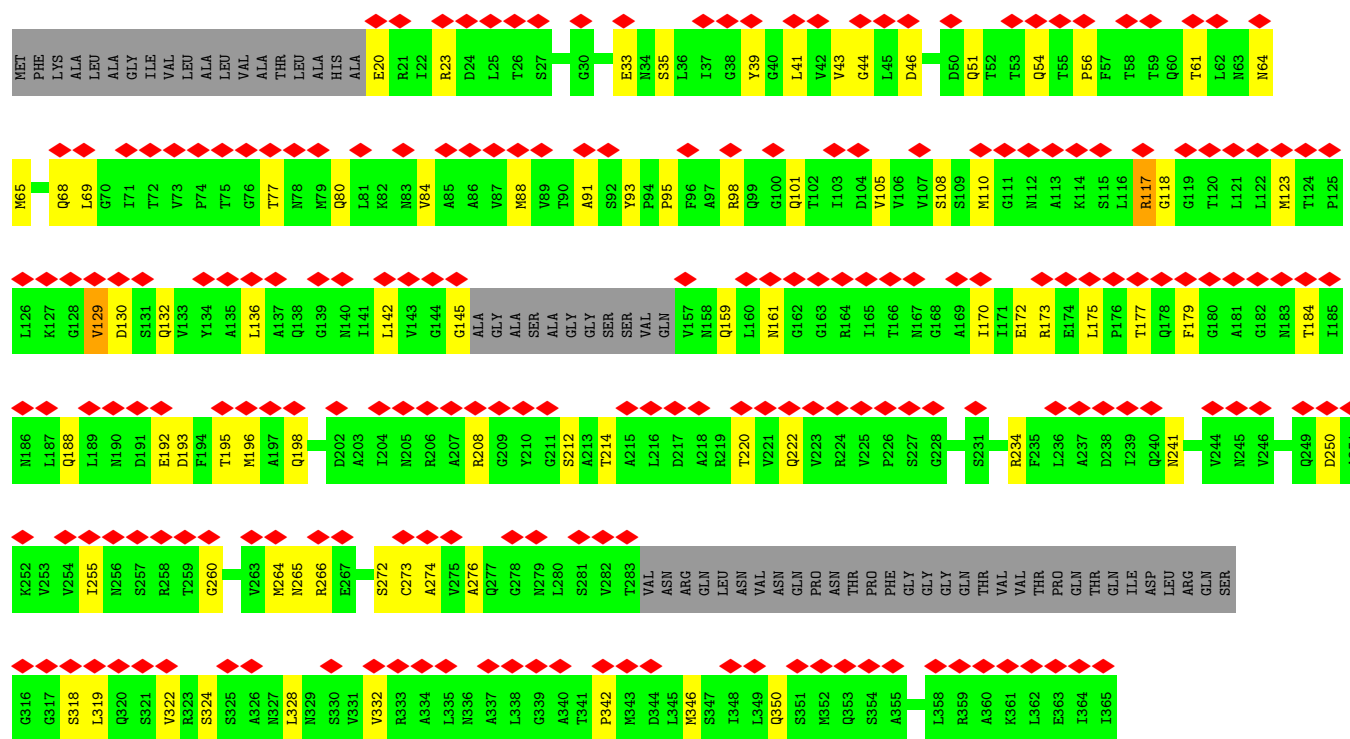


• Molecule 2: Flagellar P-ring protein

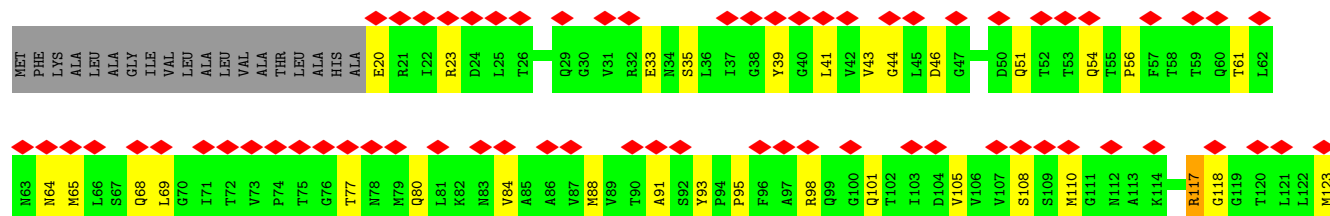


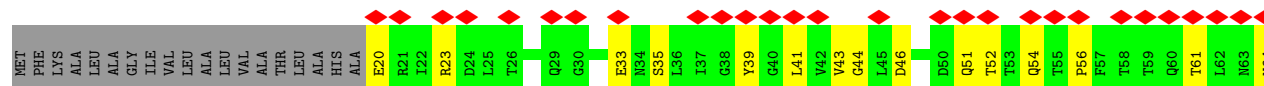


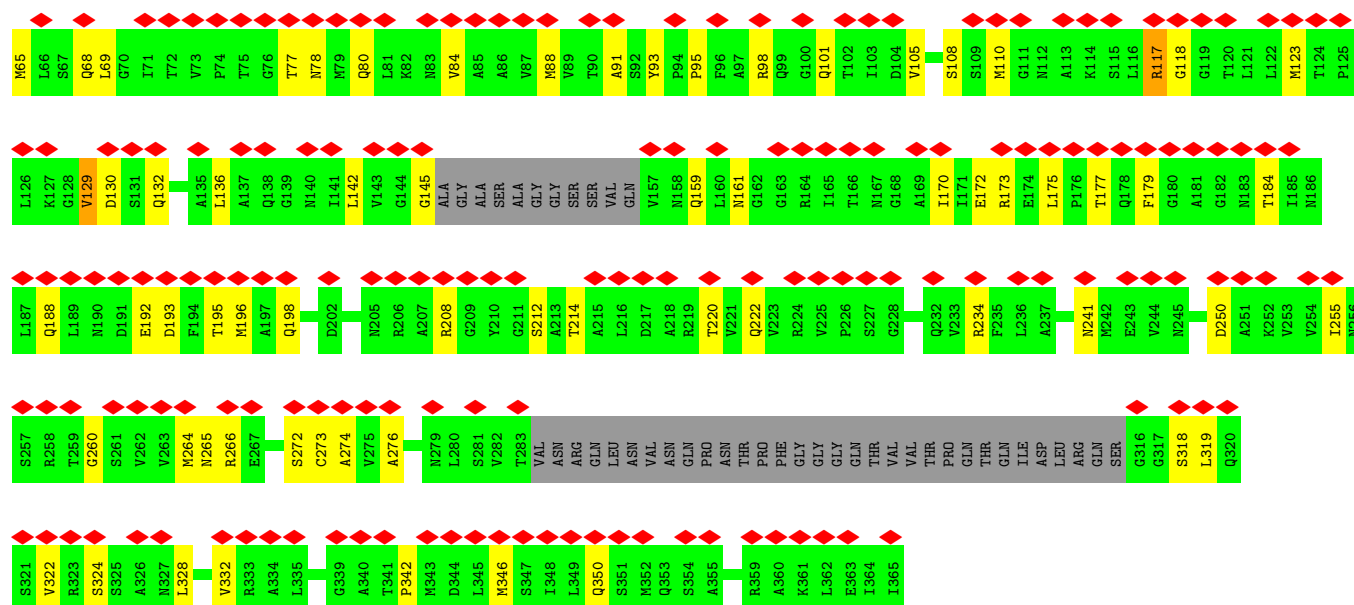
• Molecule 2: Flagellar P-ring protein



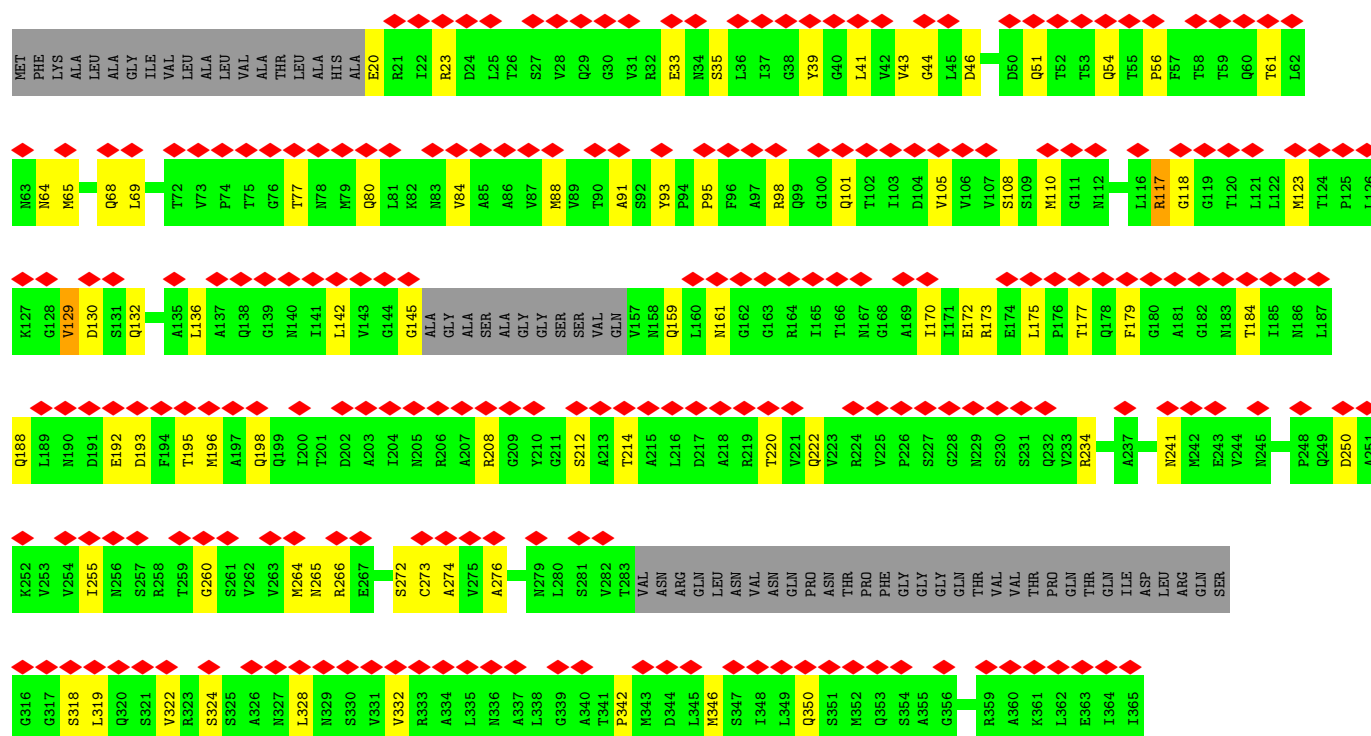
• Molecule 2: Flagellar P-ring protein





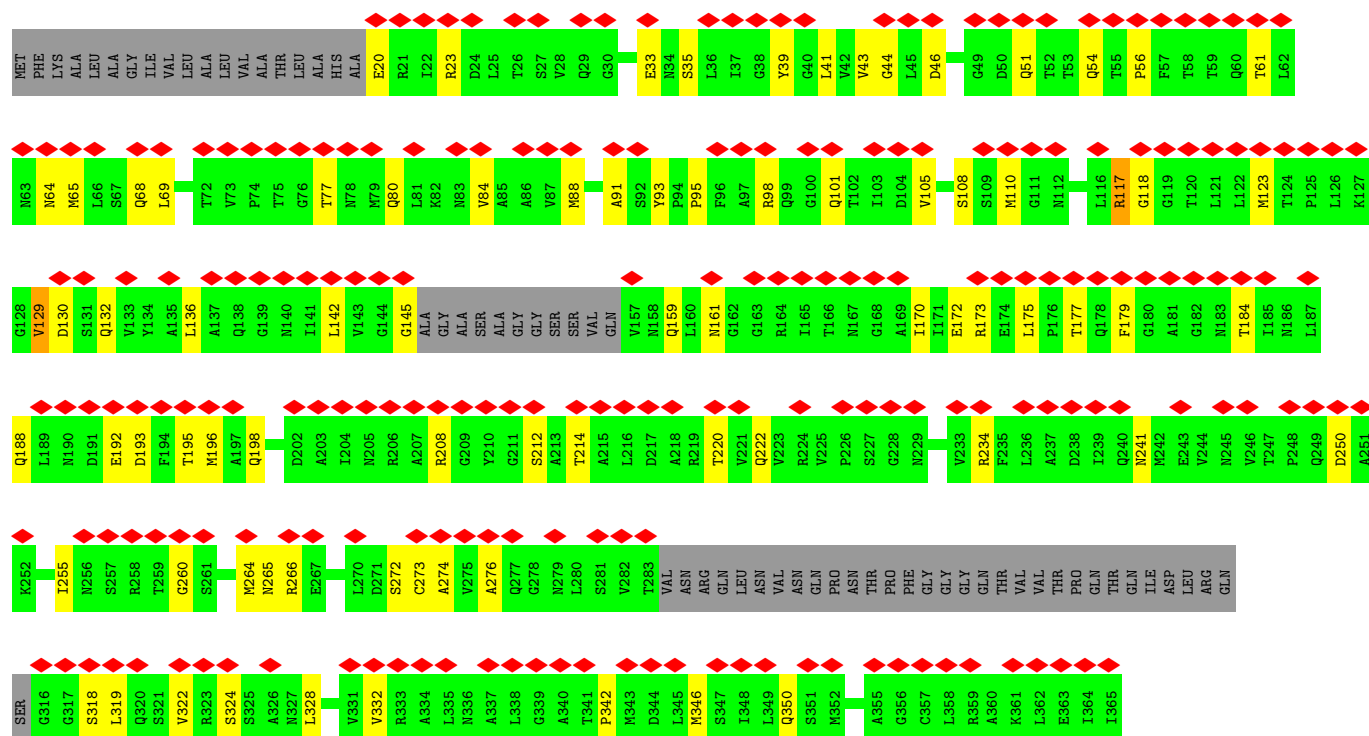


• Molecule 2: Flagellar P-ring protein

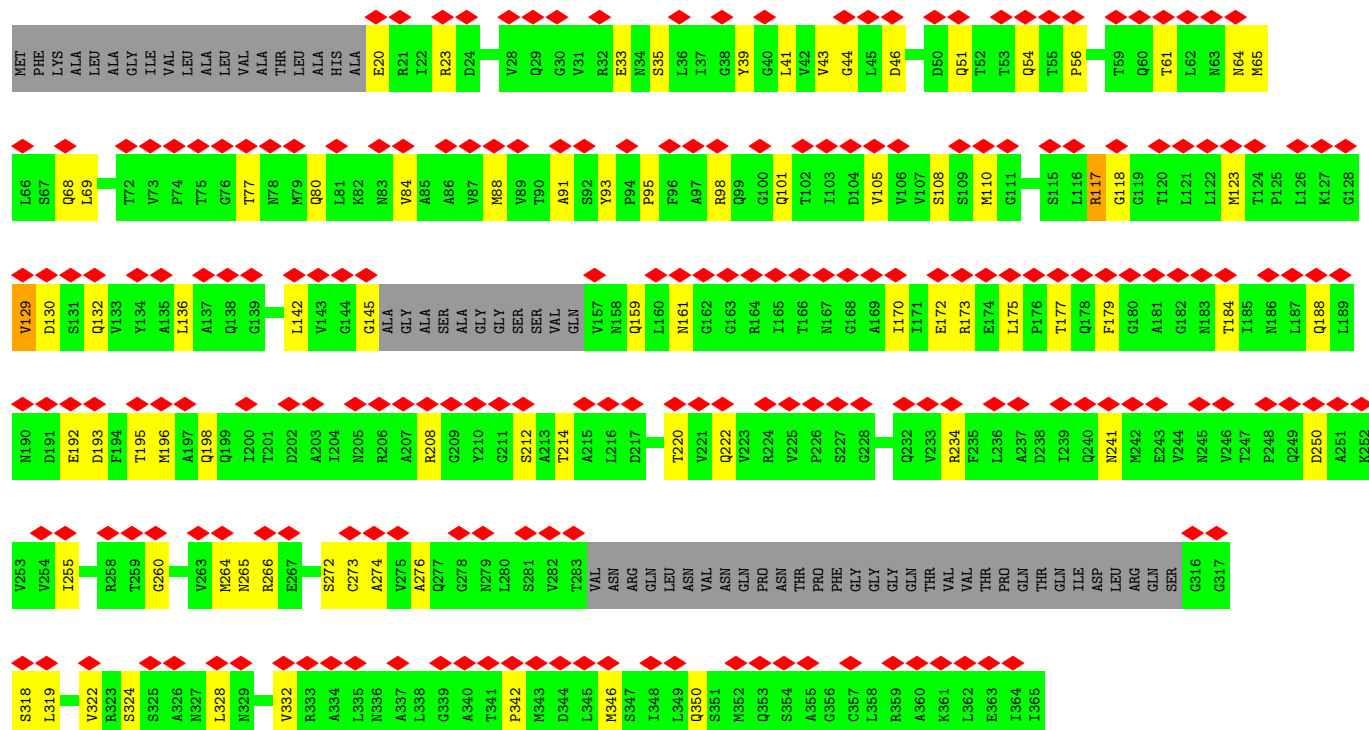


• Molecule 2: Flagellar P-ring protein

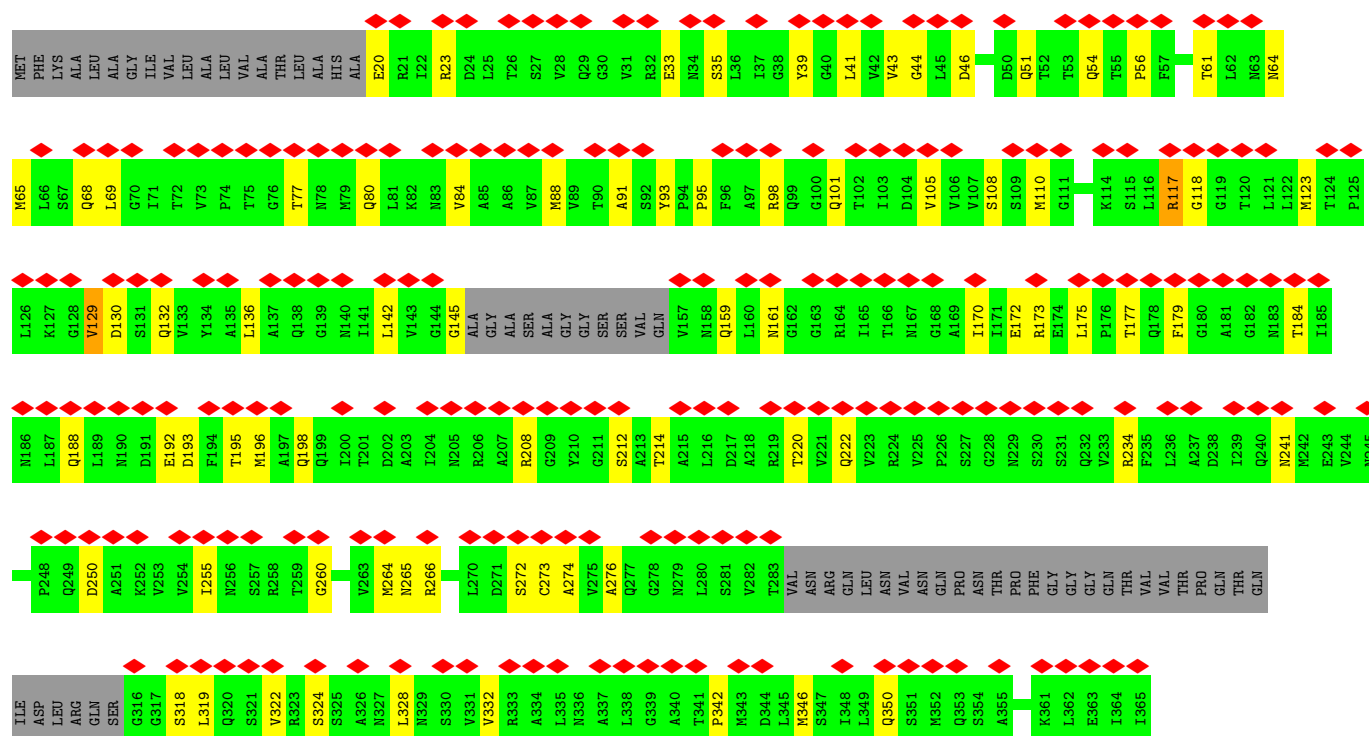




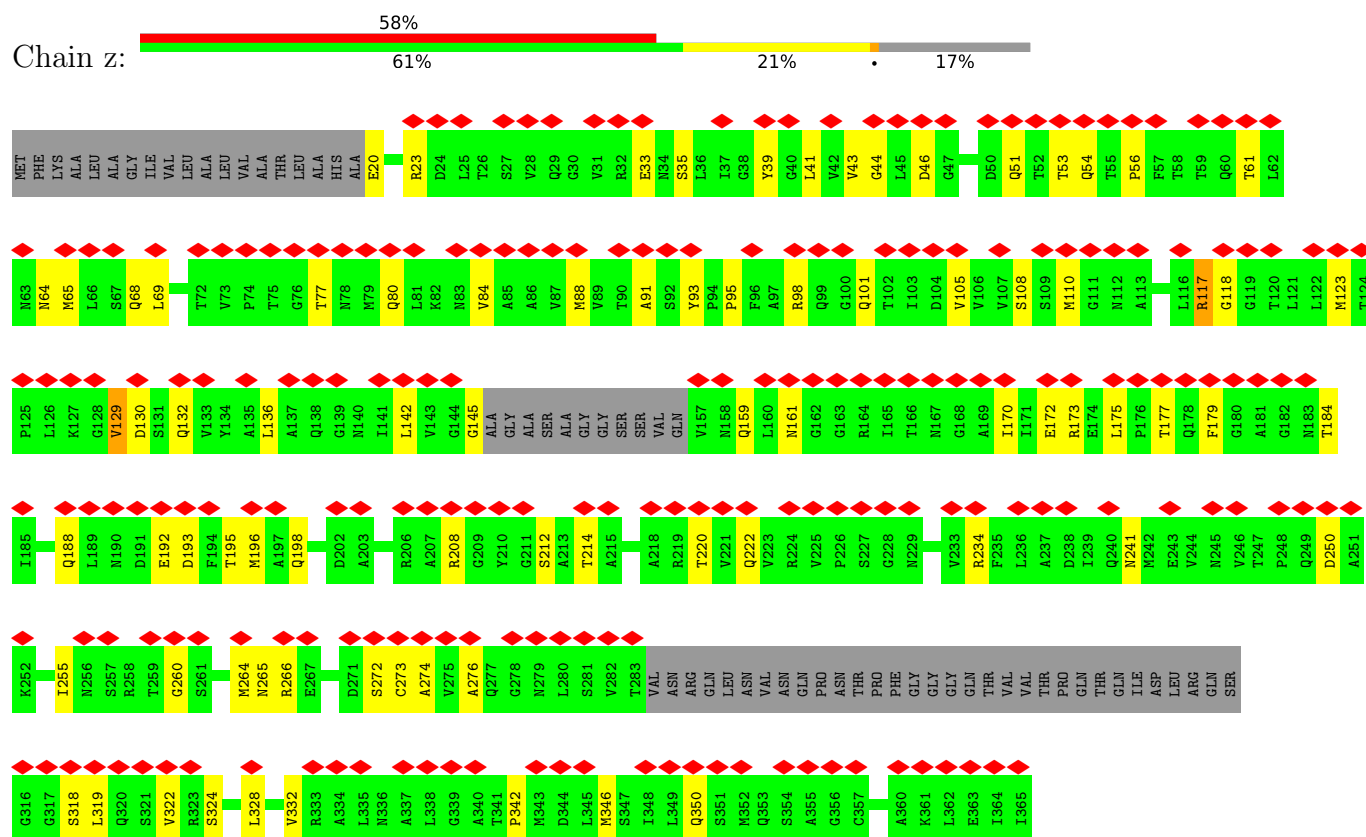
• Molecule 2: Flagellar P-ring protein



• Molecule 2: Flagellar P-ring protein

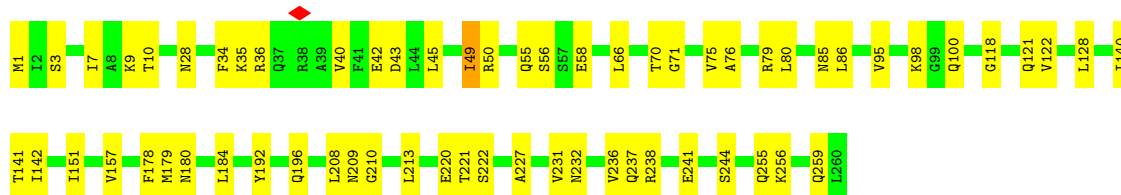


- Molecule 2: Flagellar P-ring protein

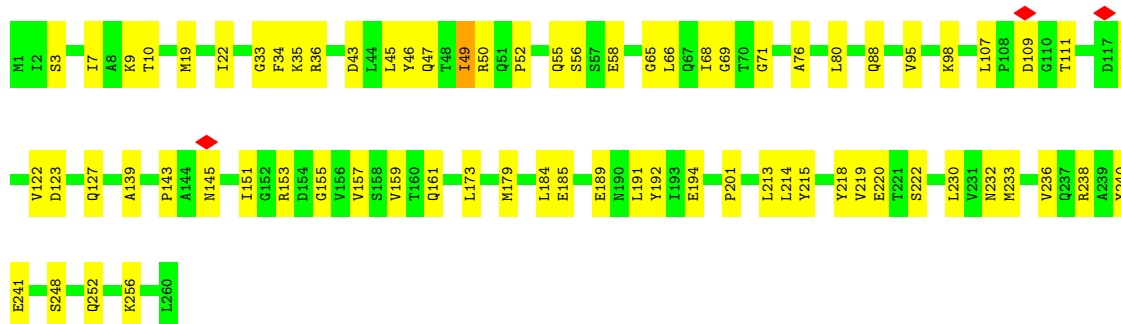




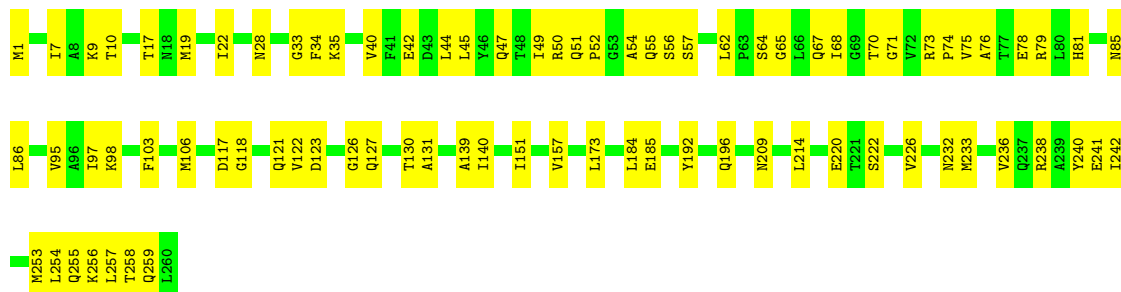
• Molecule 3: Flagellar basal-body rod protein FlgG



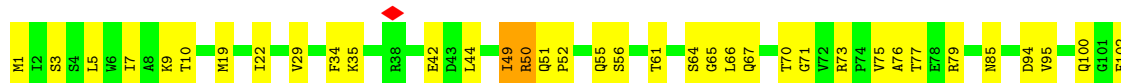
• Molecule 3: Flagellar basal-body rod protein FlgG

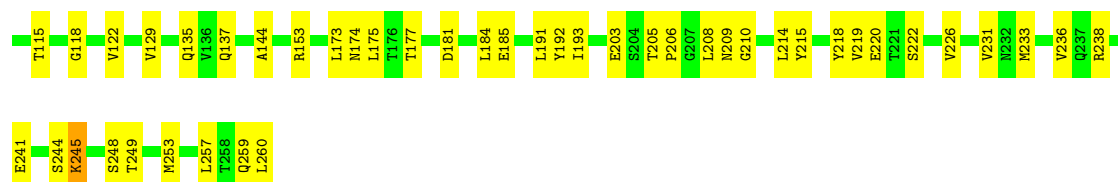


• Molecule 3: Flagellar basal-body rod protein FlgG

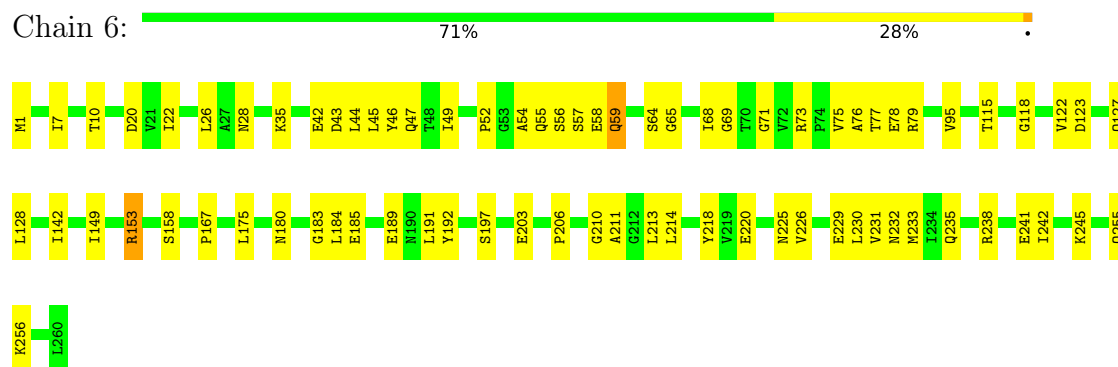


• Molecule 3: Flagellar basal-body rod protein FlgG

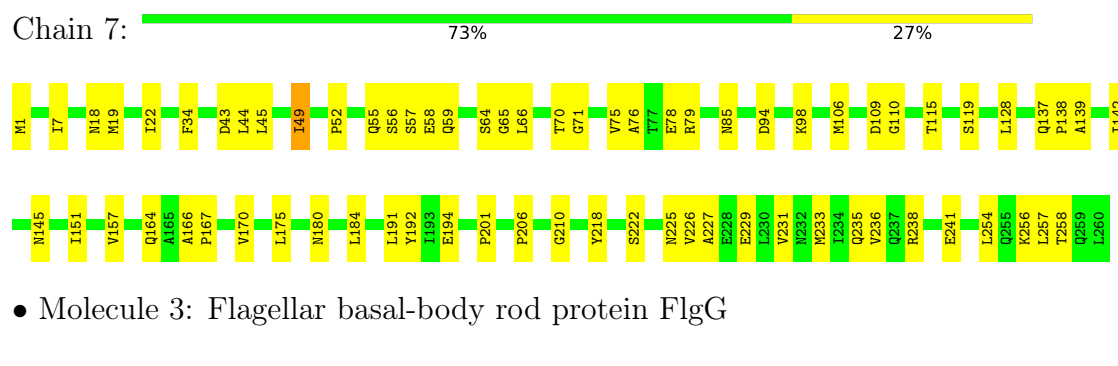




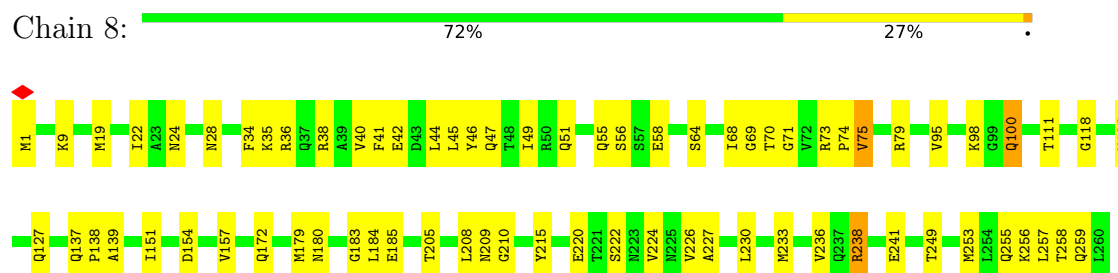
• Molecule 3: Flagellar basal-body rod protein FlgG



• Molecule 3: Flagellar basal-body rod protein FlgG



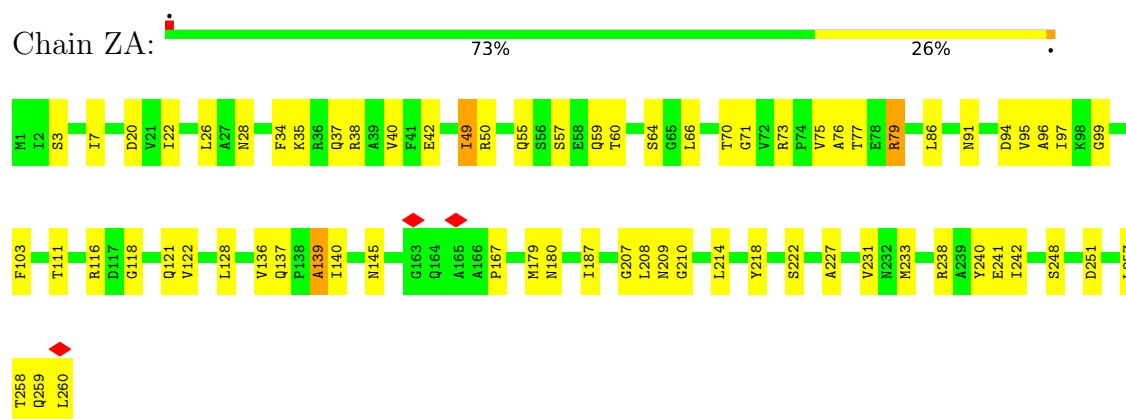
• Molecule 3: Flagellar basal-body rod protein FlgG



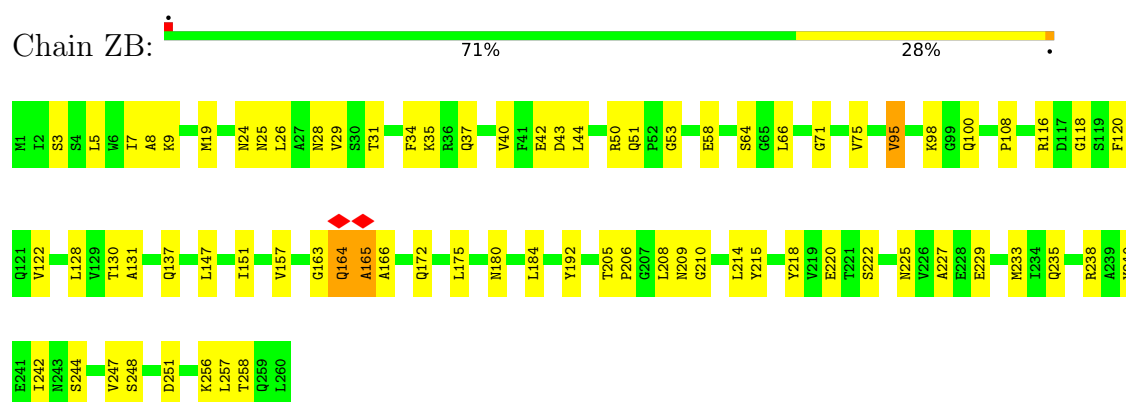
• Molecule 3: Flagellar basal-body rod protein FlgG



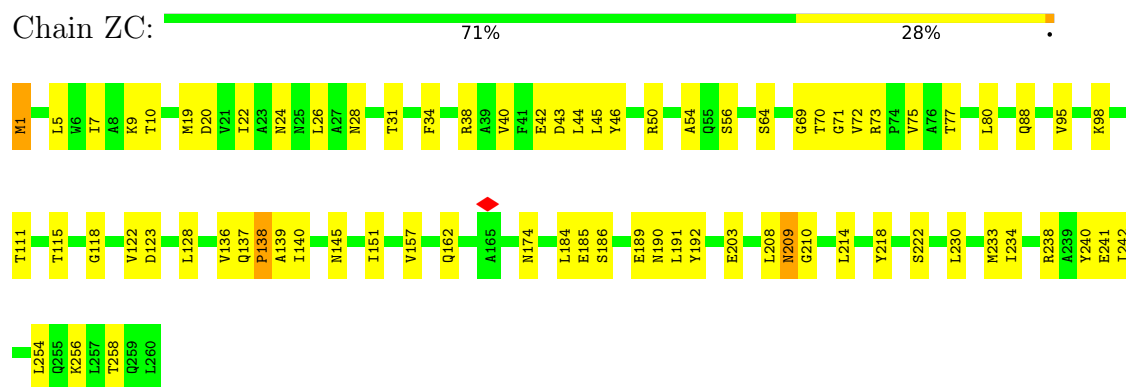
- Molecule 3: Flagellar basal-body rod protein FlgG



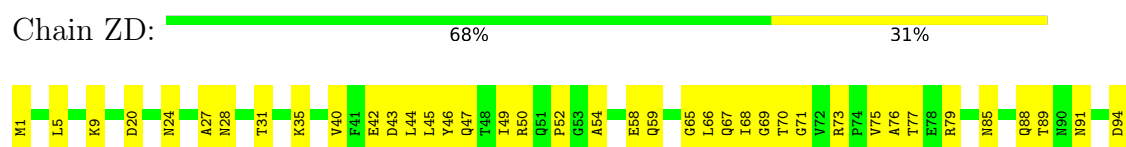
- Molecule 3: Flagellar basal-body rod protein FlgG

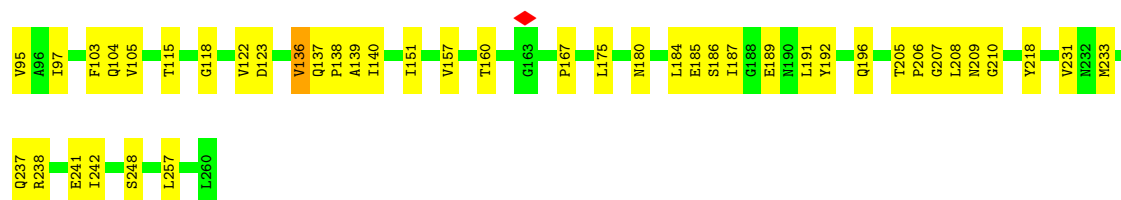


- Molecule 3: Flagellar basal-body rod protein FlgG

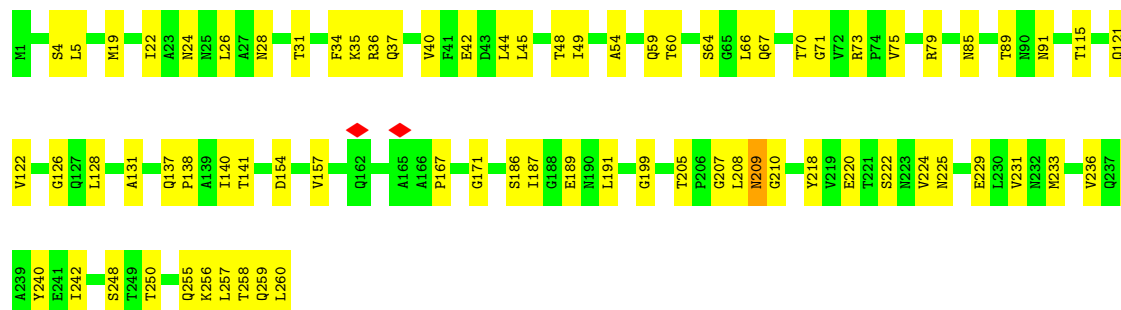


- Molecule 3: Flagellar basal-body rod protein FlgG

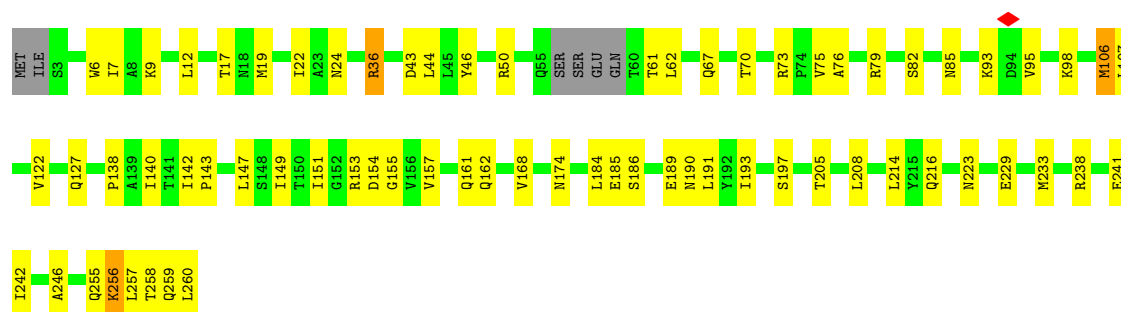




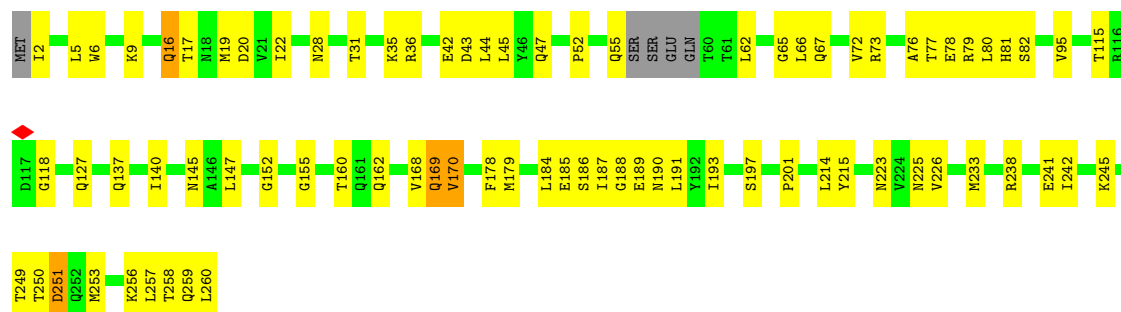
• Molecule 3: Flagellar basal-body rod protein FlgG



• Molecule 3: Flagellar basal-body rod protein FlgG

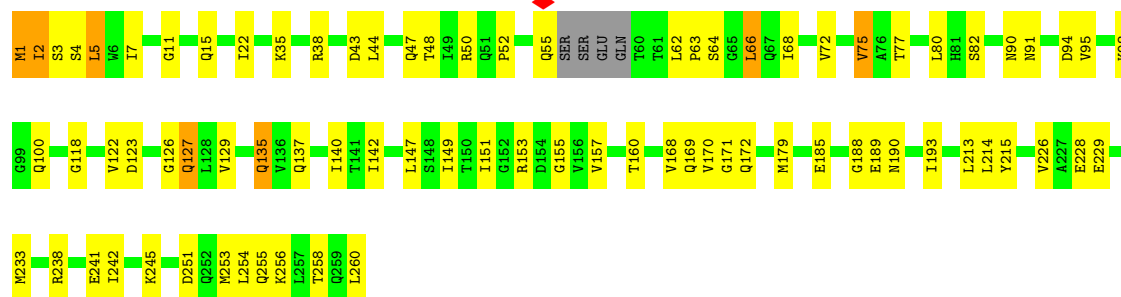


• Molecule 3: Flagellar basal-body rod protein FlgG



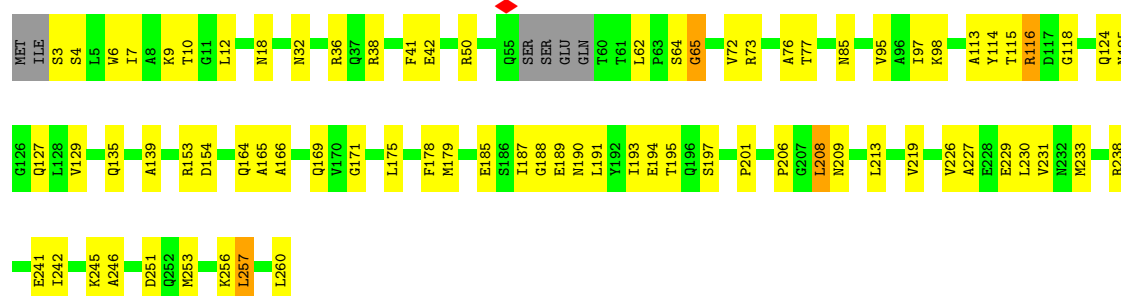
• Molecule 3: Flagellar basal-body rod protein FlgG

Chain AH:  68% 28% ..



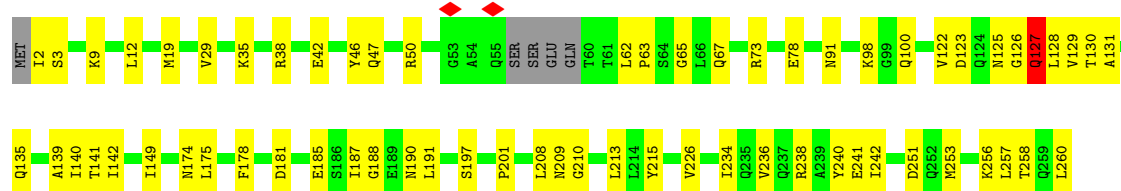
- Molecule 3: Flagellar basal-body rod protein FlgG

Chain AI:  68% 28% ..



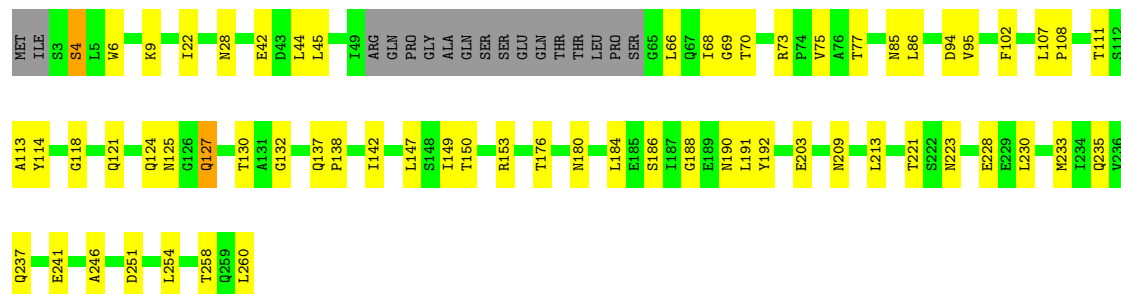
- Molecule 3: Flagellar basal-body rod protein FlgG

Chain AJ:  73% 25% .



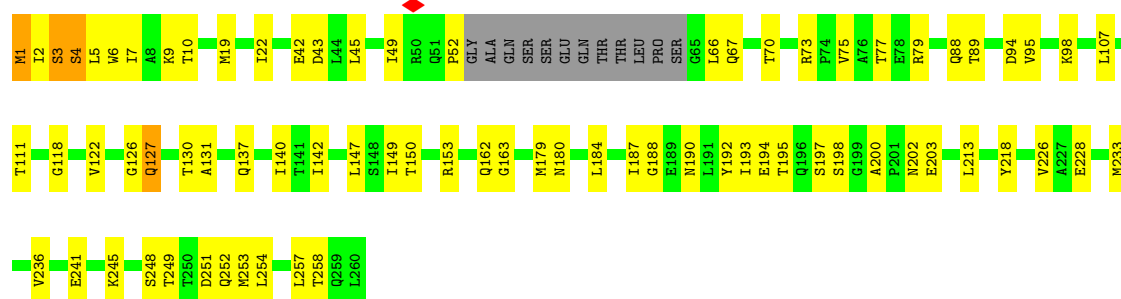
- Molecule 3: Flagellar basal-body rod protein FlgG

Chain AK:  69% 23% 7% .



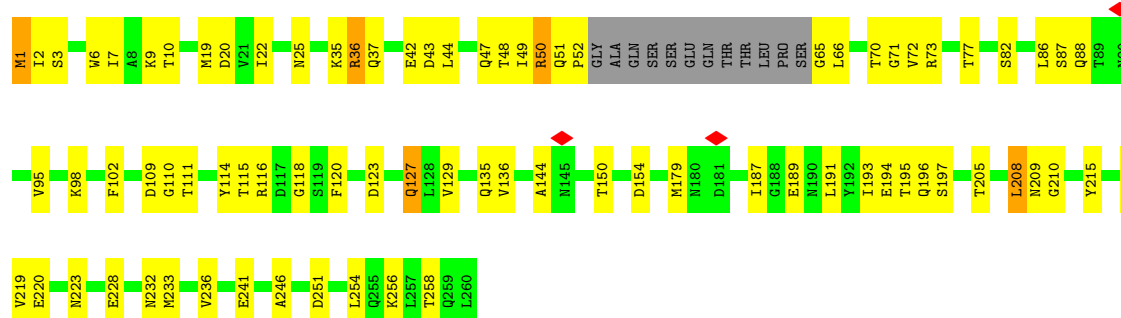
- Molecule 3: Flagellar basal-body rod protein FlgG

Chain AL:  66% 28% • 5%



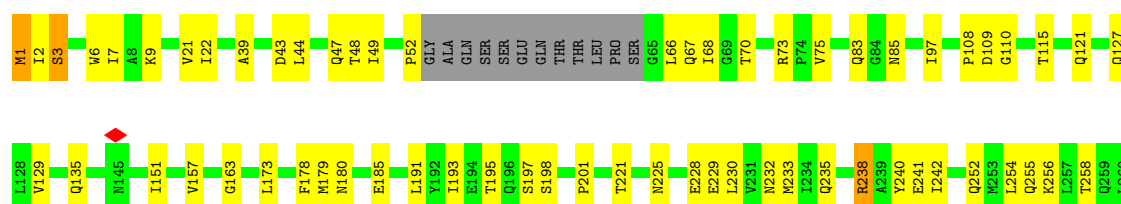
- Molecule 3: Flagellar basal-body rod protein FlgG

Chain AM:  64% 29% • 5%



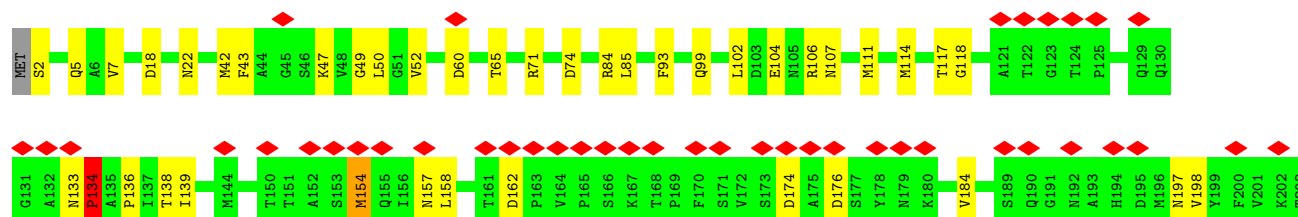
- Molecule 3: Flagellar basal-body rod protein FlgG

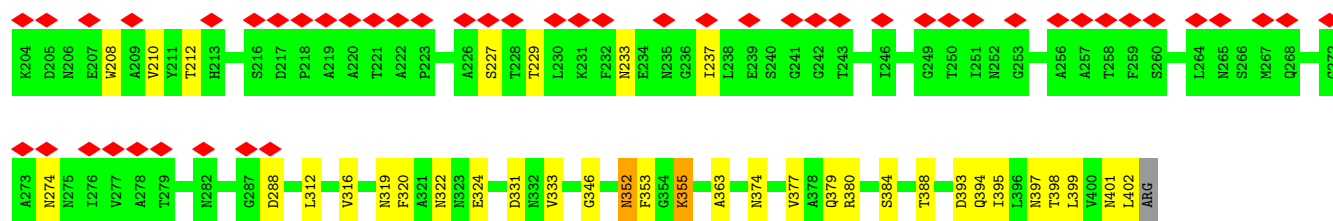
Chain AN:  71% 23% • 5%



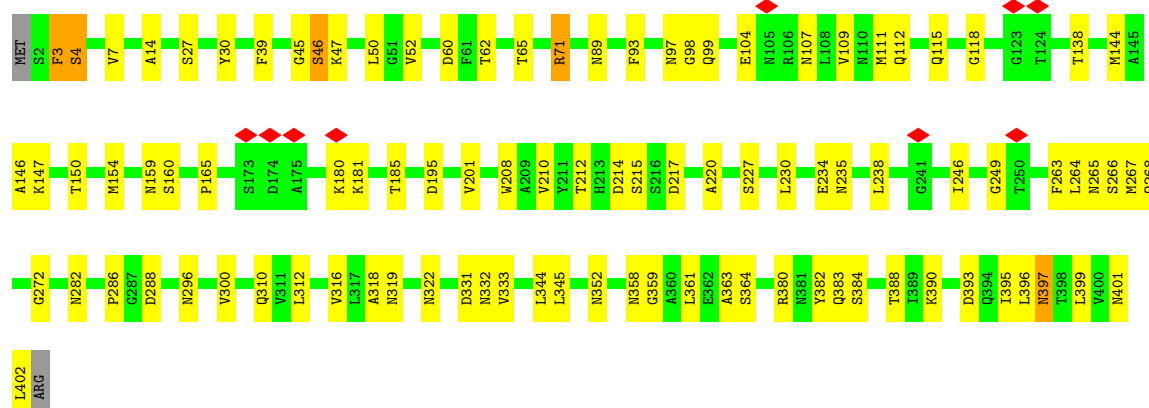
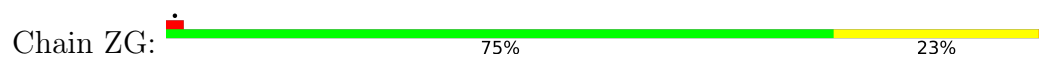
- Molecule 4: Flagellar hook protein FlgE

Chain ZF:  23% 80% 18%

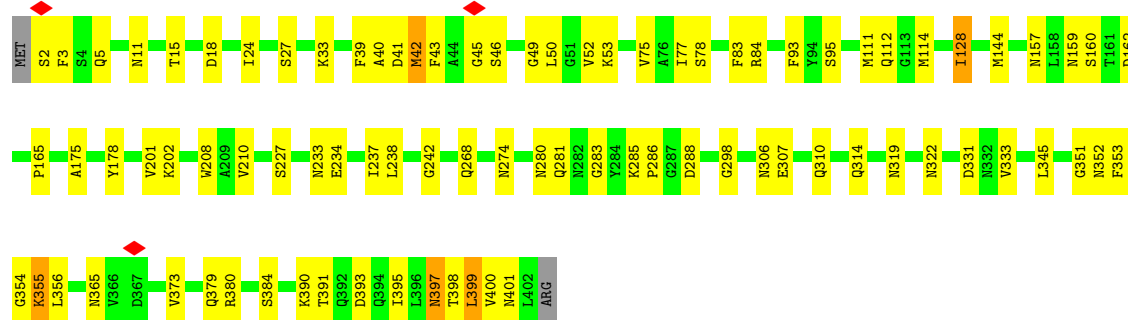
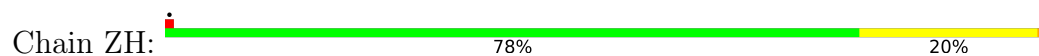




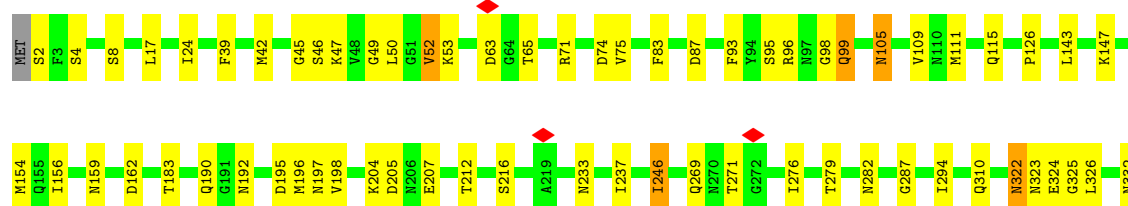
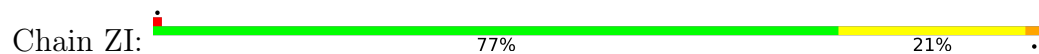
• Molecule 4: Flagellar hook protein FlgE



• Molecule 4: Flagellar hook protein FlgE

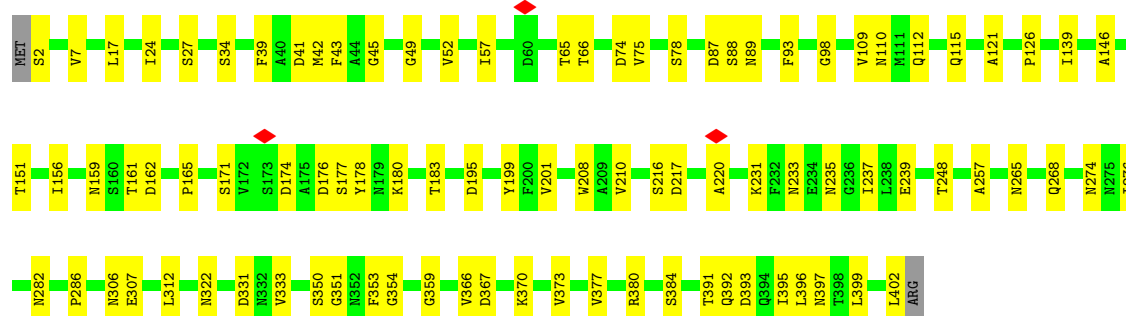
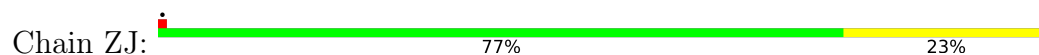


• Molecule 4: Flagellar hook protein FlgE

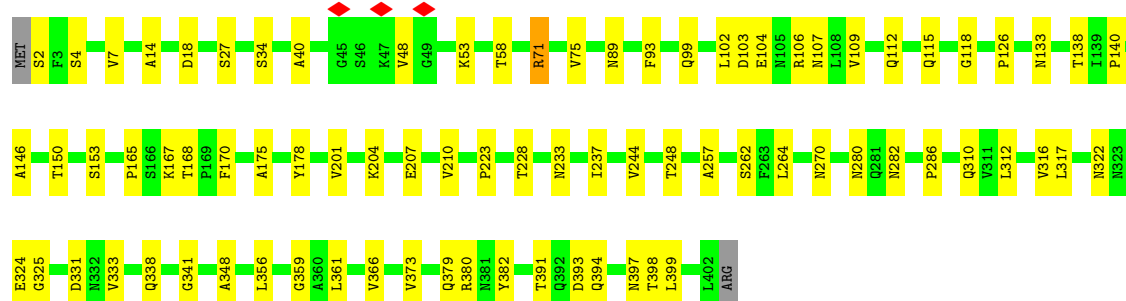
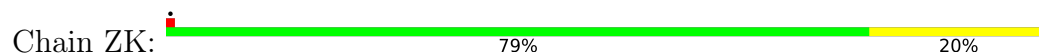




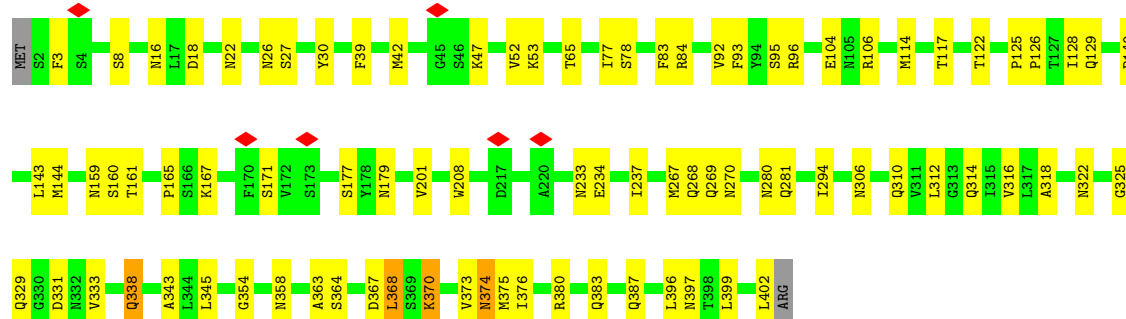
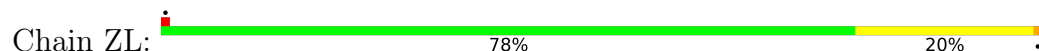
• Molecule 4: Flagellar hook protein FlgE



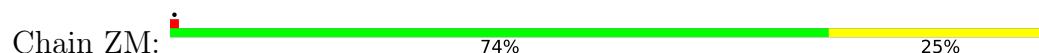
• Molecule 4: Flagellar hook protein FlgE

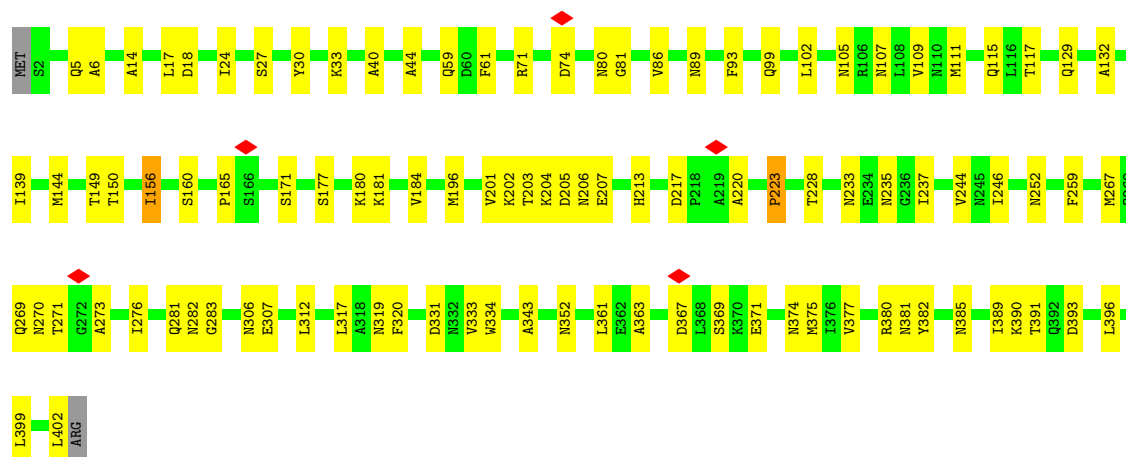


• Molecule 4: Flagellar hook protein FlgE

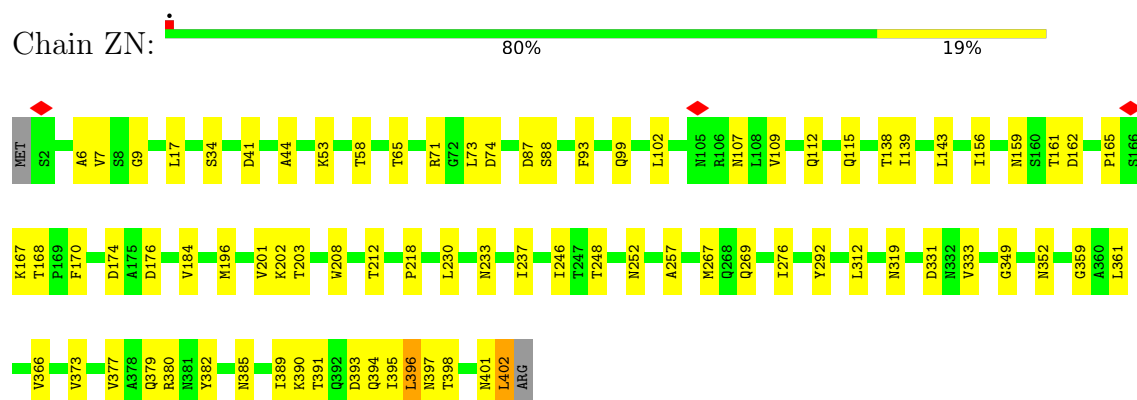


• Molecule 4: Flagellar hook protein FlgE

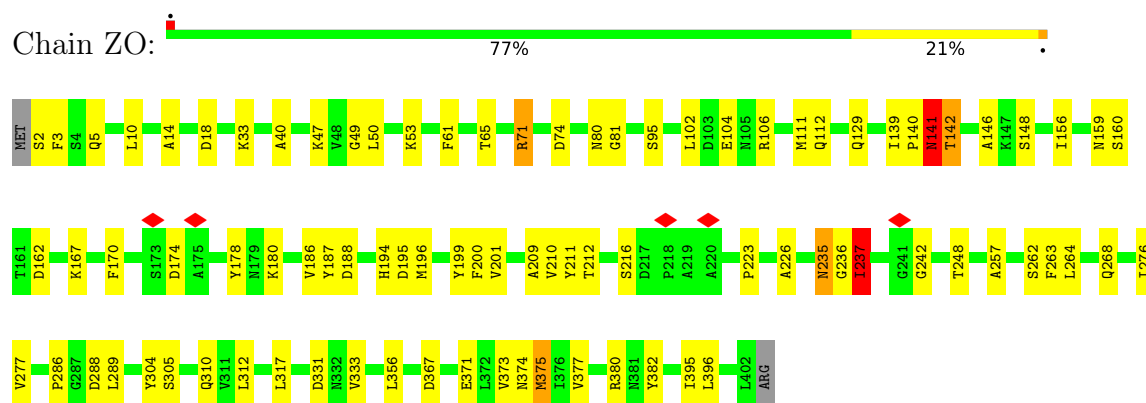




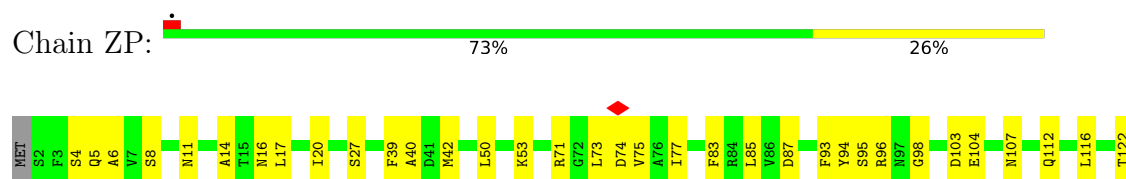
• Molecule 4: Flagellar hook protein FlgE

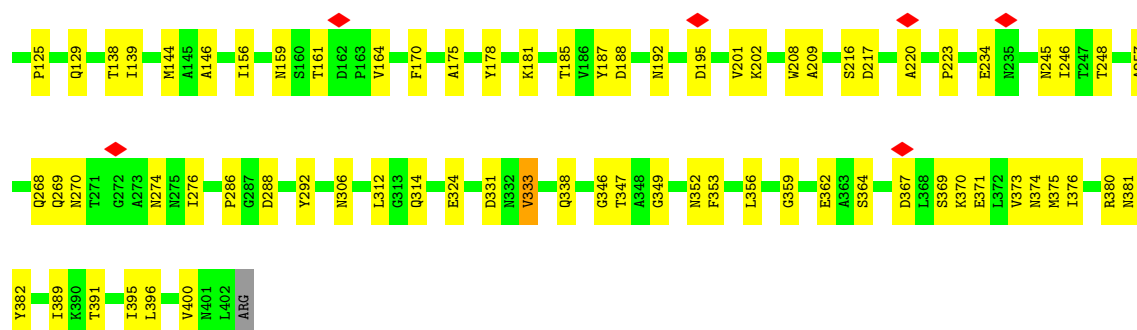


• Molecule 4: Flagellar hook protein FlgE



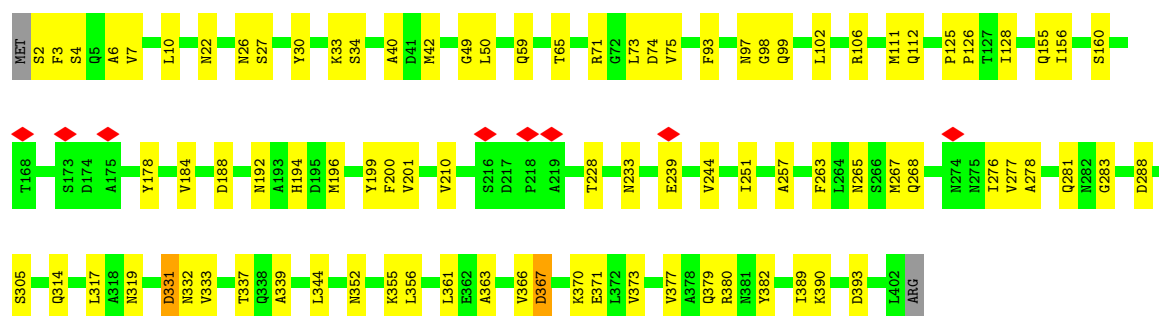
• Molecule 4: Flagellar hook protein FlgE





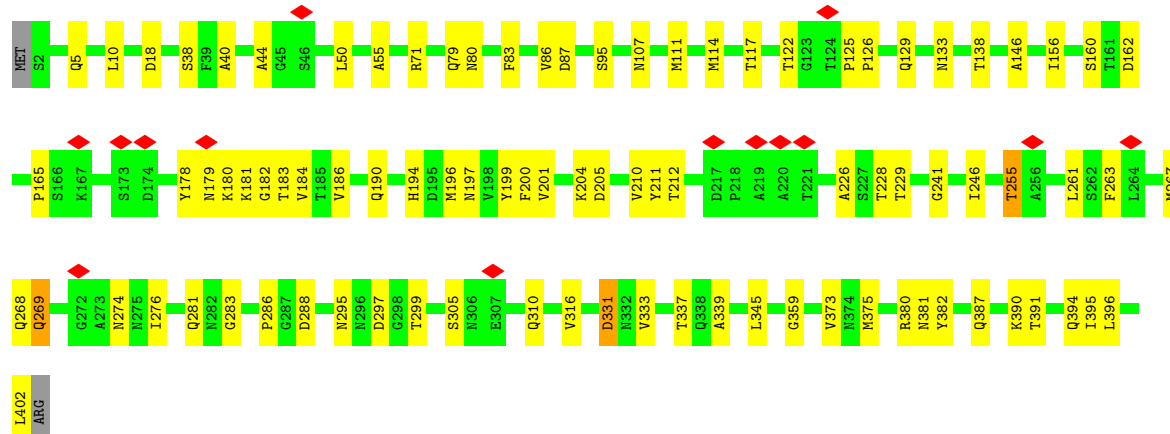
• Molecule 4: Flagellar hook protein FlgE

Chain ZQ: 77% 22%



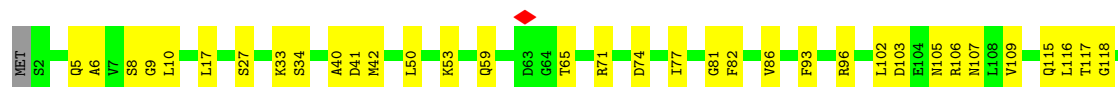
• Molecule 4: Flagellar hook protein FlgE

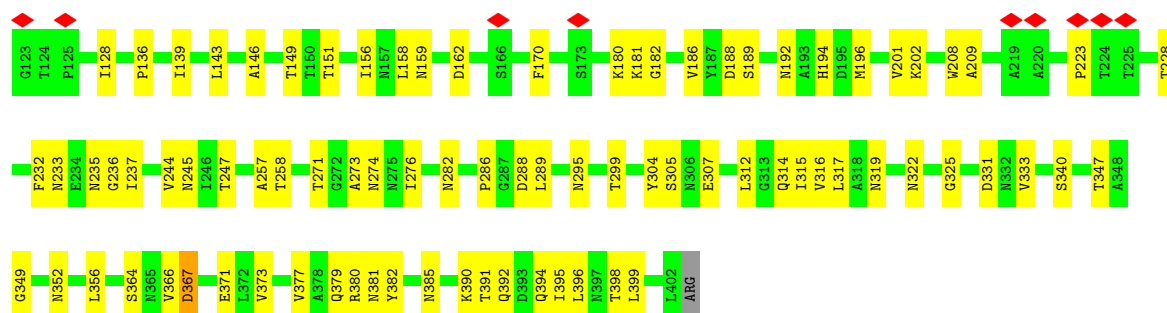
Chain ZR: 77% 22%



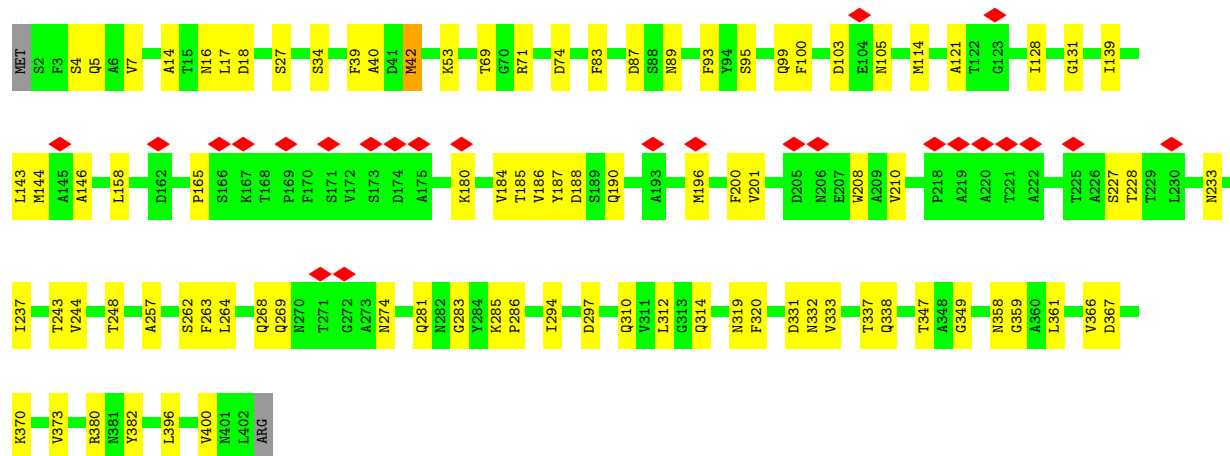
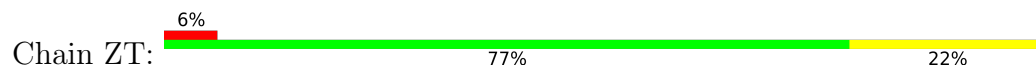
• Molecule 4: Flagellar hook protein FlgE

Chain ZS: 70% 29%

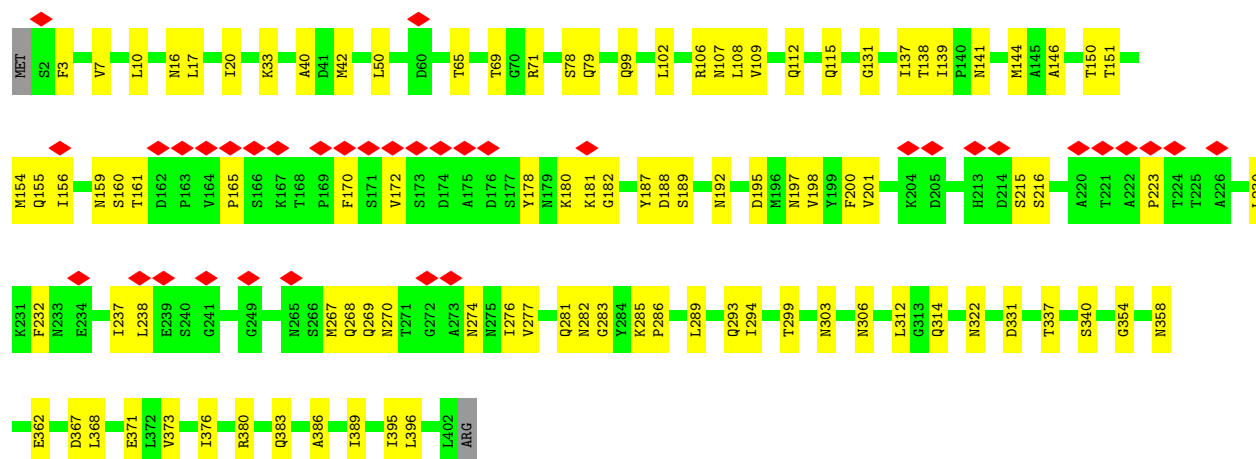
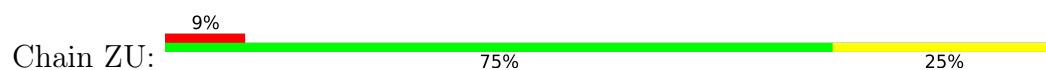




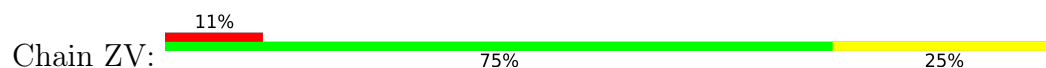
• Molecule 4: Flagellar hook protein FlgE



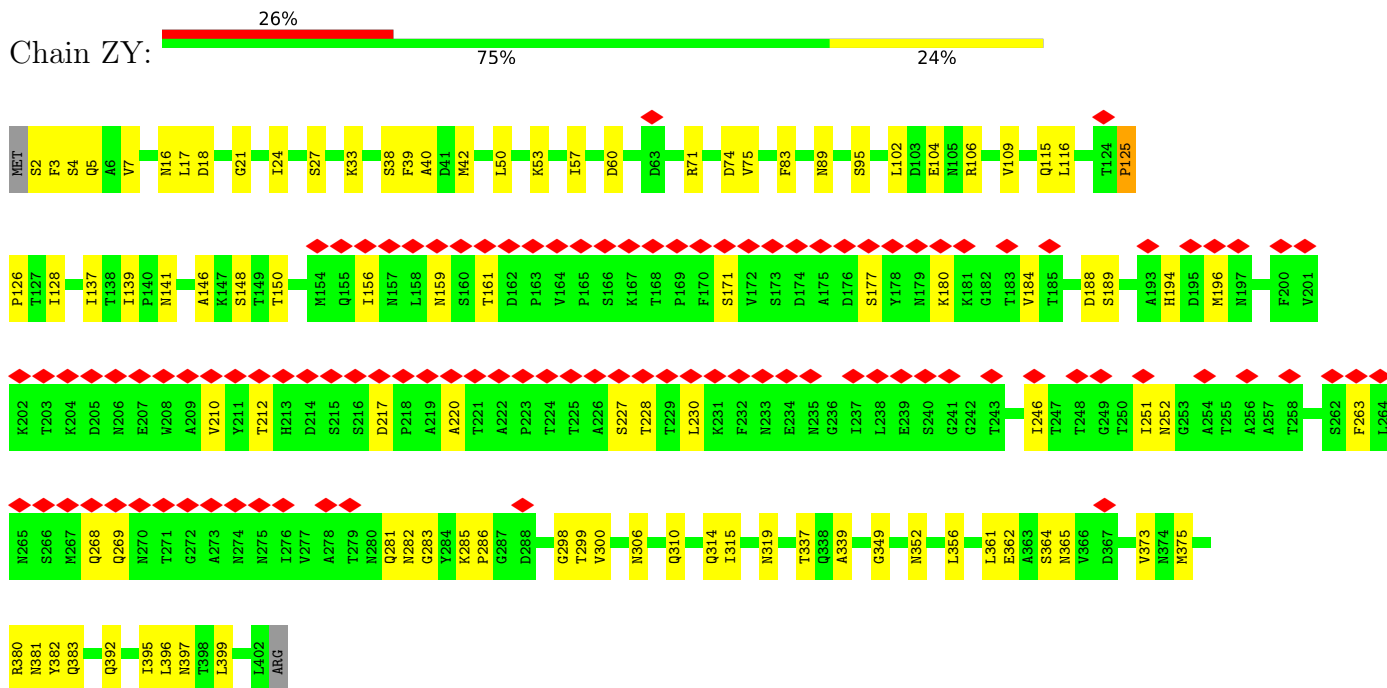
• Molecule 4: Flagellar hook protein FlgE



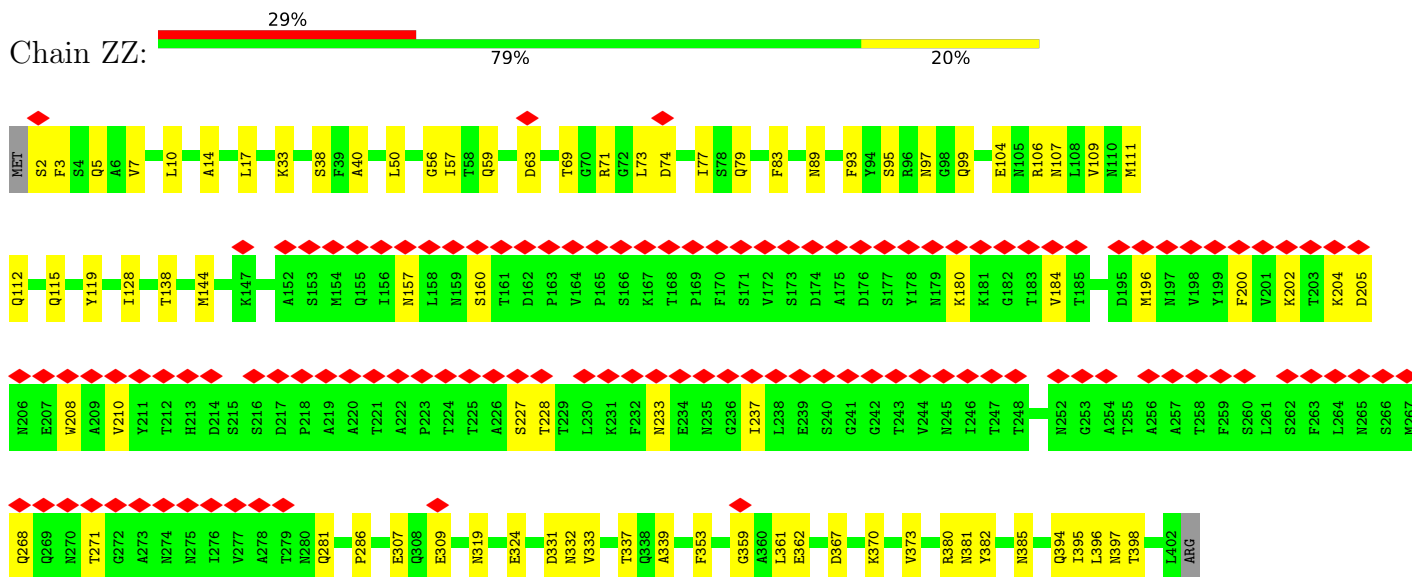
• Molecule 4: Flagellar hook protein FlgE



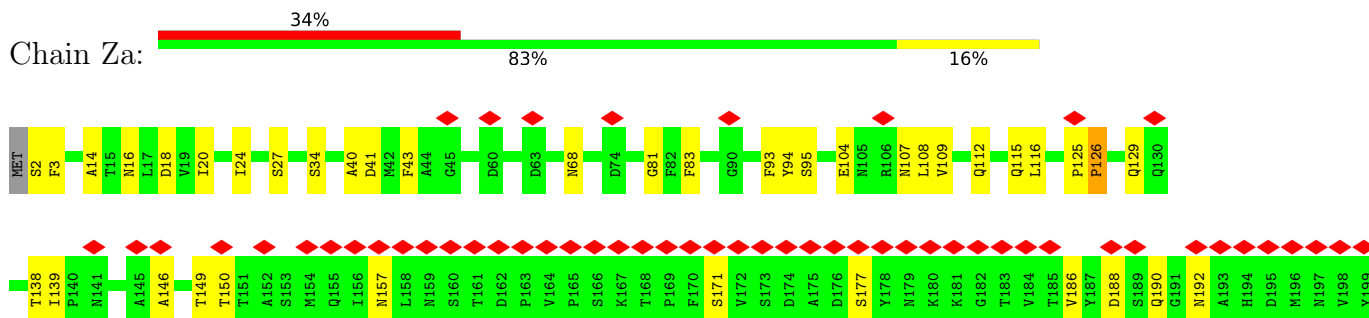
- Molecule 4: Flagellar hook protein FlgE

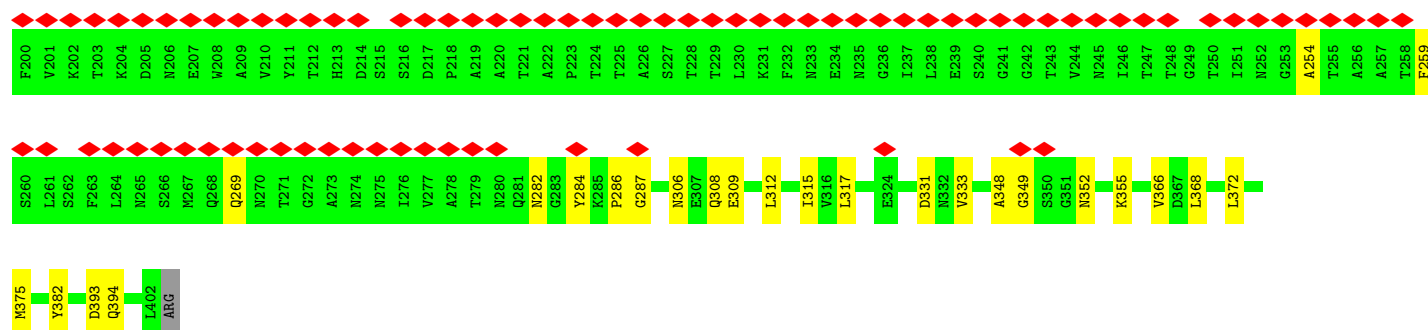


- Molecule 4: Flagellar hook protein FlgE

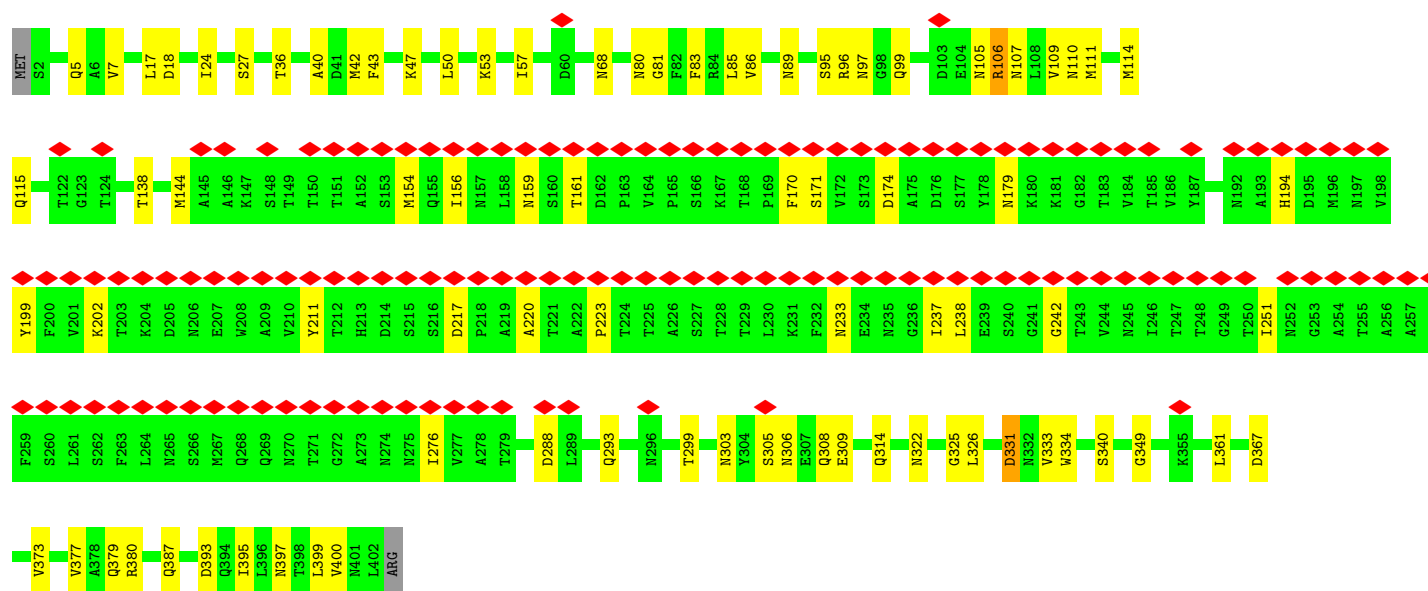
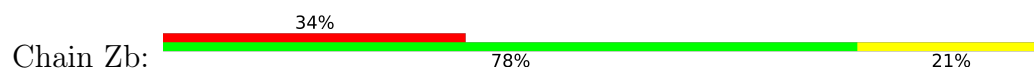


- Molecule 4: Flagellar hook protein FlgE

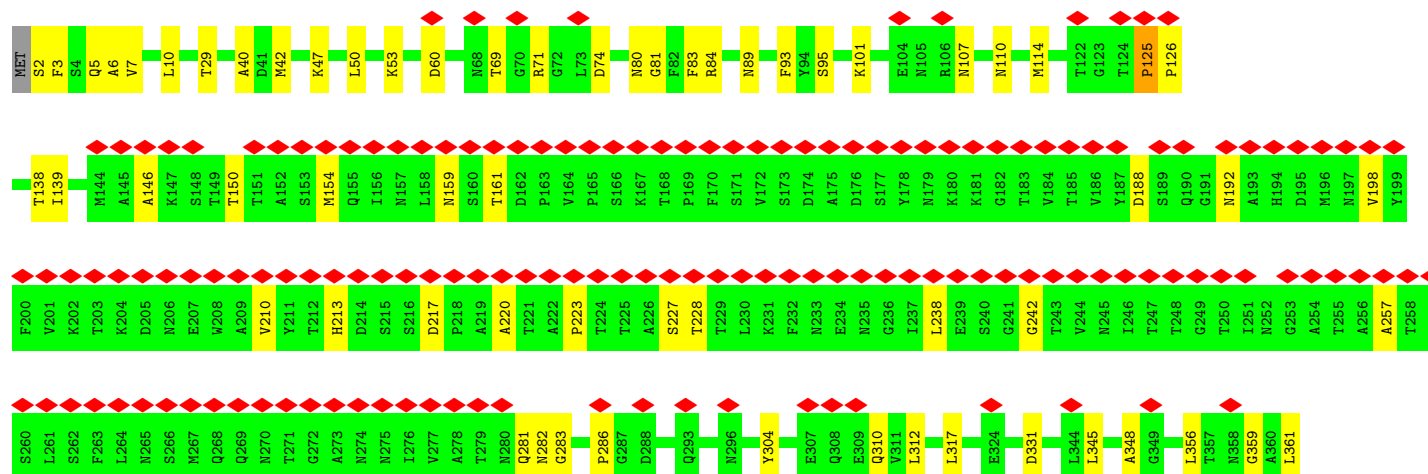
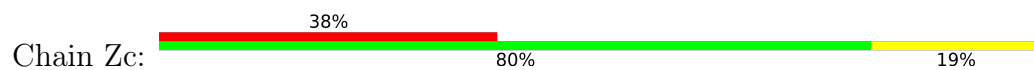




• Molecule 4: Flagellar hook protein FlgE

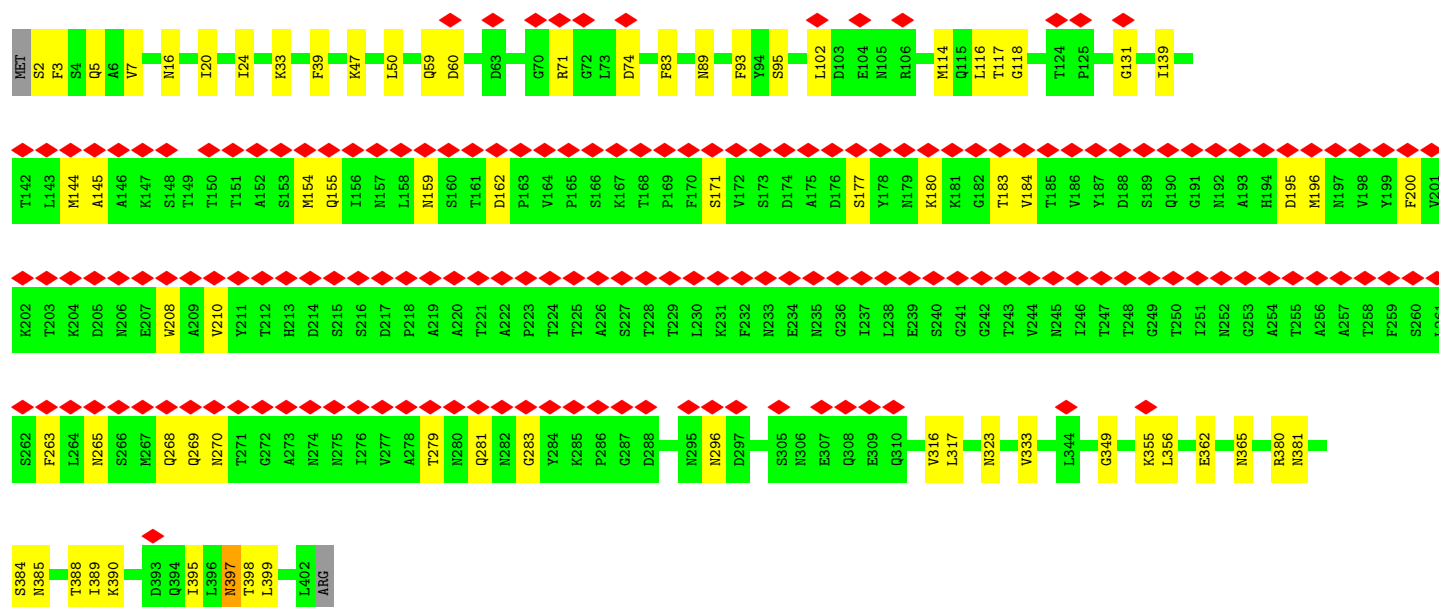
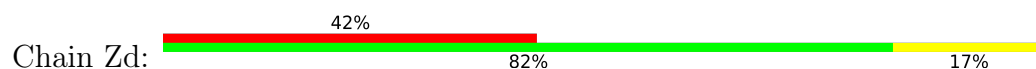


• Molecule 4: Flagellar hook protein FlgE

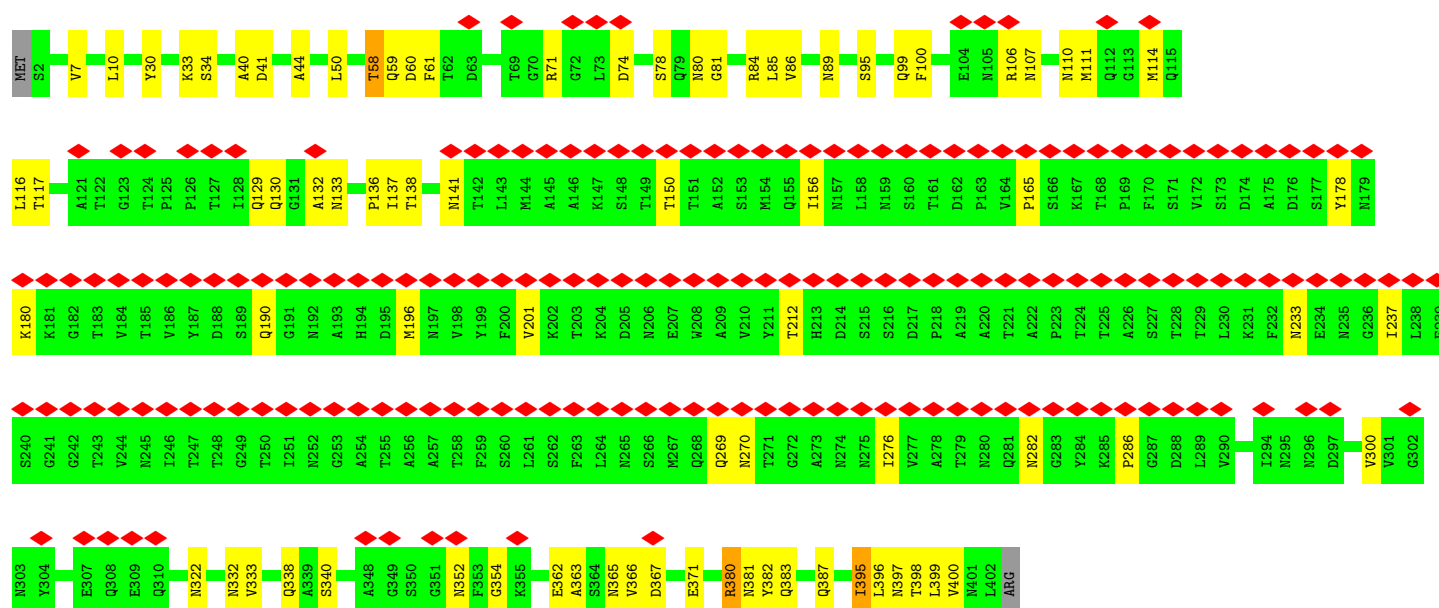




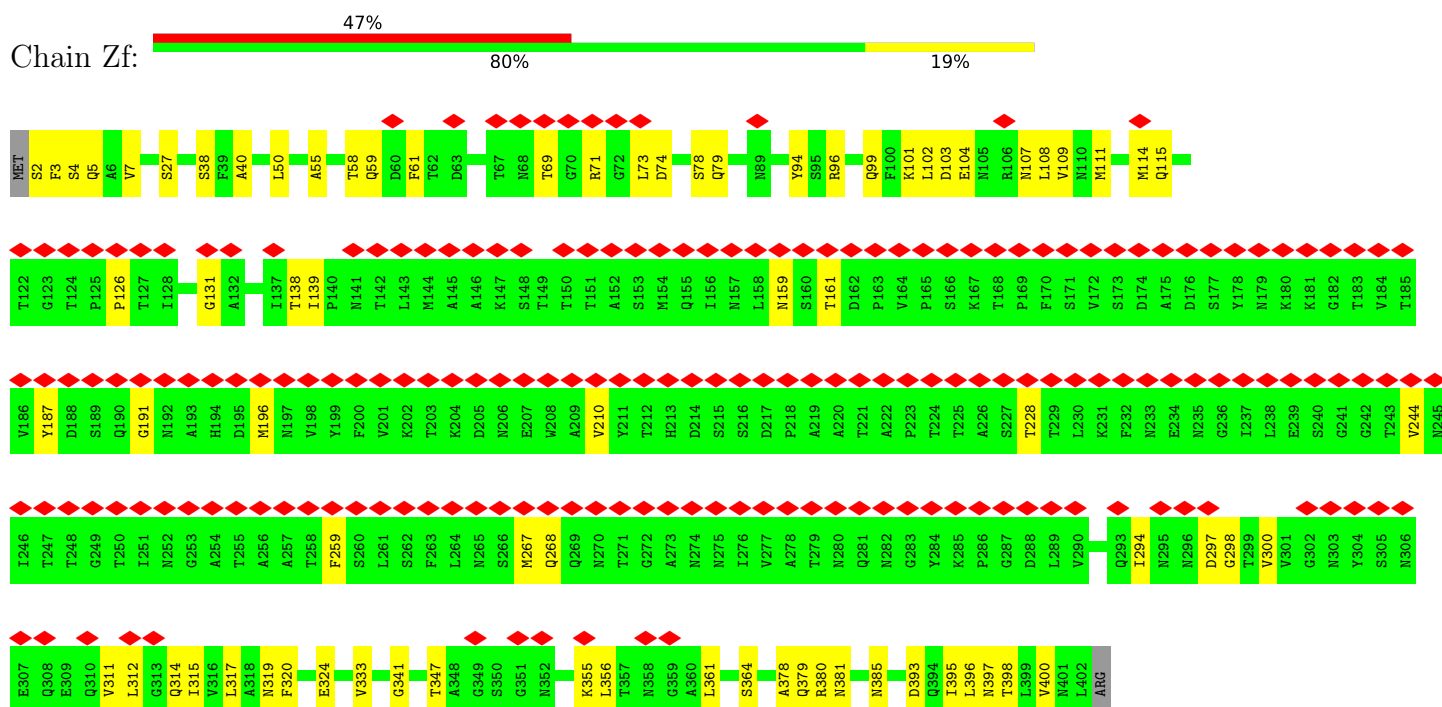
• Molecule 4: Flagellar hook protein FlgE



• Molecule 4: Flagellar hook protein FlgE



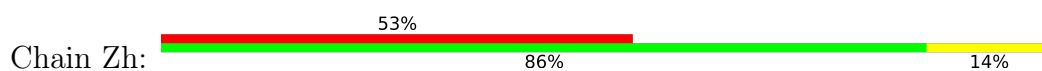
• Molecule 4: Flagellar hook protein FlgE

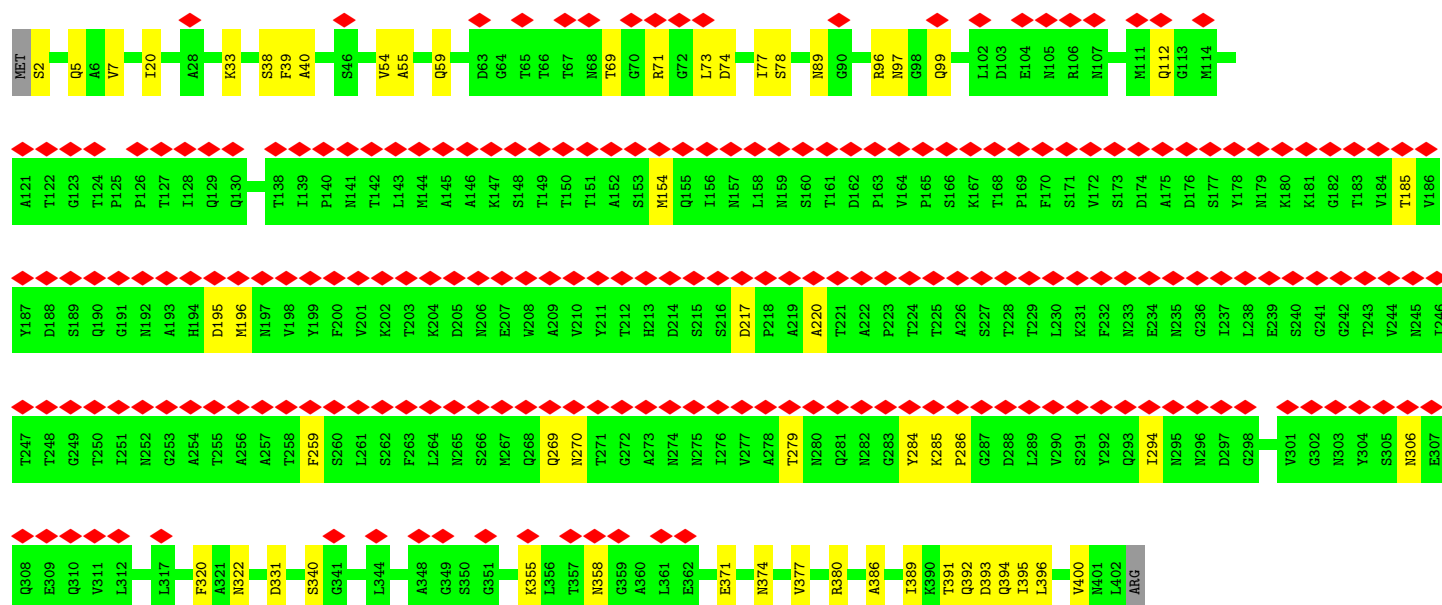


• Molecule 4: Flagellar hook protein FlgE

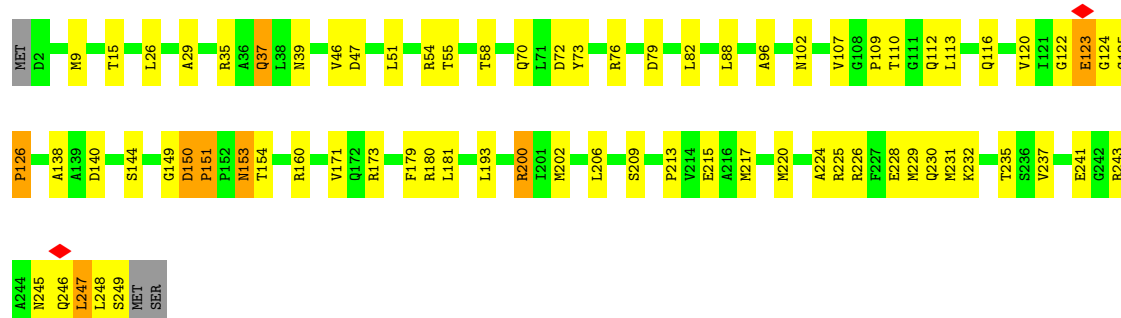


• Molecule 4: Flagellar hook protein FlgE

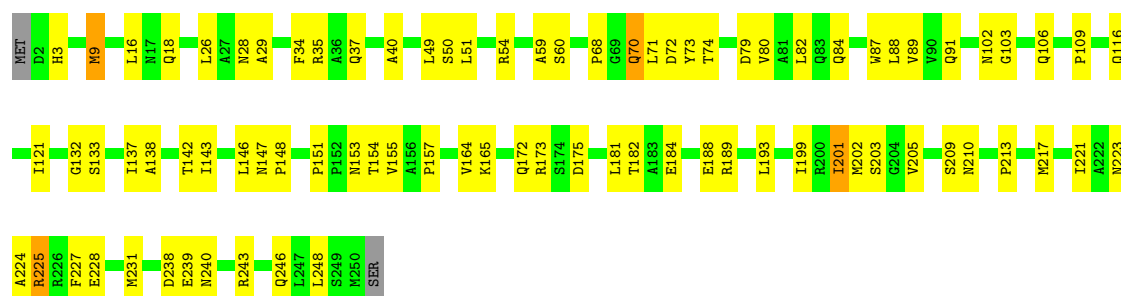




• Molecule 5: Flagellar basal-body rod protein FlgF

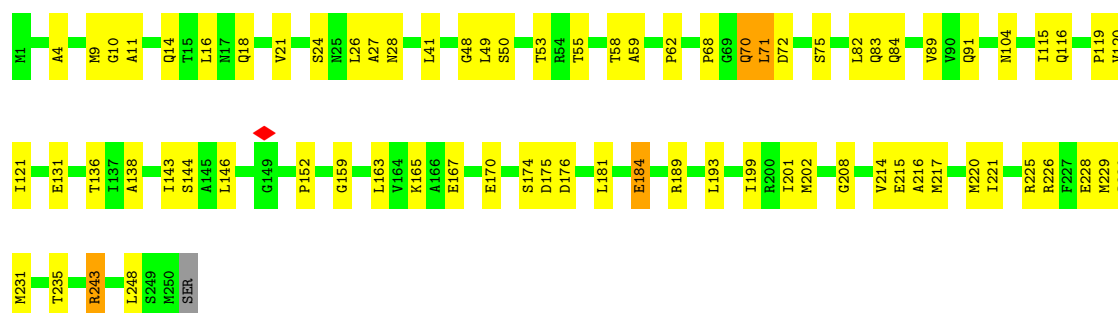


• Molecule 5: Flagellar basal-body rod protein FlgF



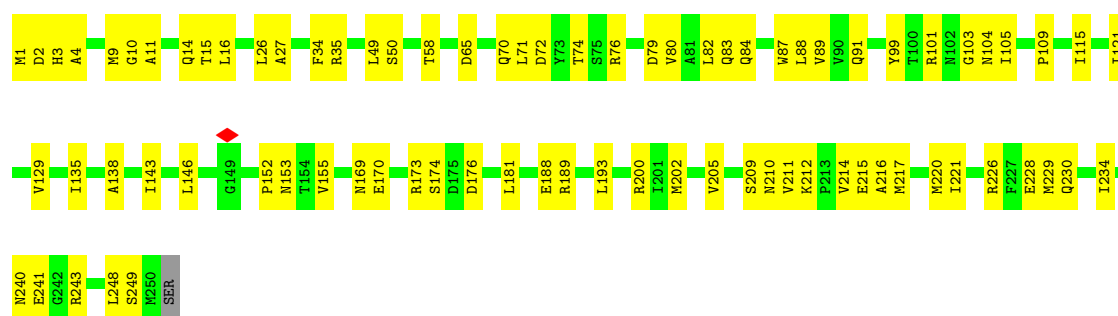
• Molecule 5: Flagellar basal-body rod protein FlgF





- Molecule 5: Flagellar basal-body rod protein FlgF

Chain AD: 68% 32%



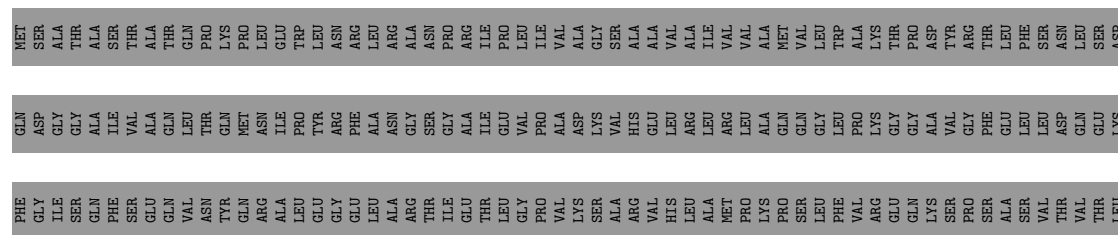
- Molecule 5: Flagellar basal-body rod protein FlgF

Chain AE: 70% 29%



- Molecule 6: Flagellar M-ring protein

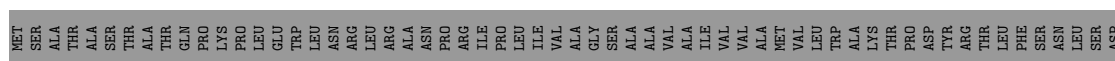
Chain AR: 14% 23% 6% 71%





Chain AT:







- Molecule 6: Flagellar M-ring protein



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

[illegible]

	R244	T245	Q246	R247	R248	T249		T252		T256	V257	G258	T259	C260	N261		A264	Q265	T266	T267	A268	Q269	L270	D271	F272	A273		Q277		Y282	S283	T284			D287	A288	S289	K290	T291	L292	L293	S294	R295	R296		N299		E302	Q303	V304	G305	ALA	GLY	TYR	PRO	GLY	GLY	VAL	PRO	GLY

[illegible]

E383	E384	L385	L386	S386	V387	A388	V389	V390	V391	K394	T395	L396	A397	D398	G399	K400	P401	L402	P403	L404	T405	A406	D407	G408	M409	K410	T411	T412	E413	D414	L415	T416	R417	E418	A419	M420	G421	D424	R425	R426	G427	D428	T429	L430	M431	V432	V433	M434	S438	A439	VAL	ASP	ASN	THR	GLY	GLU

[illegible]

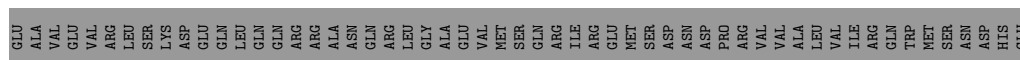
ALA	VAL	GLU	VAL	ARG	VAL	LEU	SER	LYS	ASP	GLU	GLN	LEU	GLN	GLN	ARG	ARG	ALA	ALA	ASN	GLN	ARG	GLU	LEU	GLY	ALA	GLU	VAL	VAL	MET	SER	SER	GLN	GLN	ARG	ARG	ILE	ILE	VAL	VAL	ALA	ALA	LEU	VAL	ILE	GLN	GLN	TRP	MET	SER	ASN	ASP	GLU	HIS	GLU

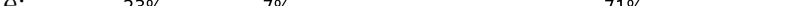
- Molecule 6: Flagellar M-ring protein

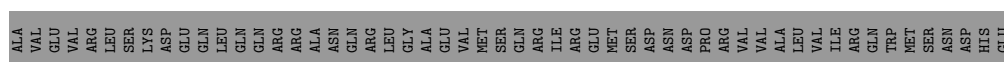
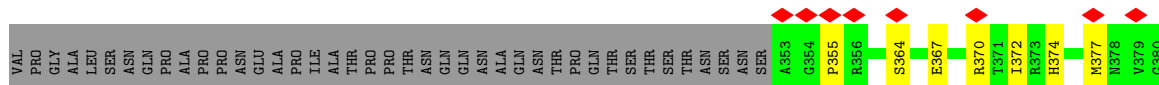
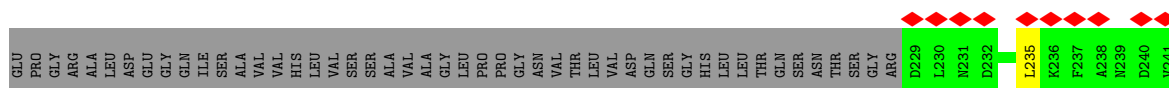


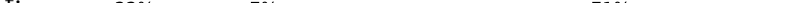
PHE	GLY	ILE	SER	GLN	PHE	SER	SER	GLU	GLN	VAL	ASN	TYR	GLN	ARG	ALA	LEU	ALA	GLU	GLY	GLY	LEU	LEU	GLY	GLY	PRO	PRO	VAL	VAL	LYS	SER	ALA	ALA	ARG	VAL	VAL	HIS	LEU	ALA	LEU	LEU	PHE	VAL	ARG	GLU	GLN	GLY	LYS	SER	PRO	PRO	SER	ALA	VAL	THR	THR	VAL	THR

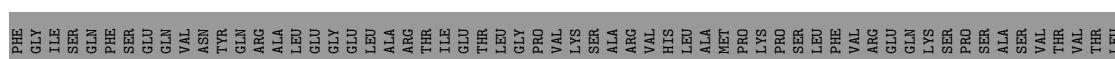
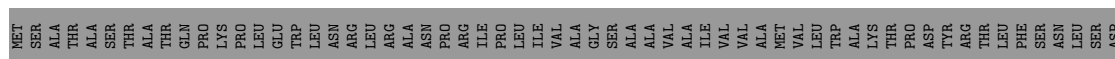
GLU	PRO	GLY	ARG	ALA	LEU	ASP	GLU	GLY	GLN	ILE	SER	SER	ALA	VAL	VAL	HIS	LEU	VAL	SER	SER	ALA	VAL	GLY	ASN	GLY	HIS	LEU	LEU	THR	THR	THR	SER	GLY	ARG										
D229	L230	N231	D232	A233	D234	L235	K236	F237	A238	N239	D240																																	



Chain Ae: 

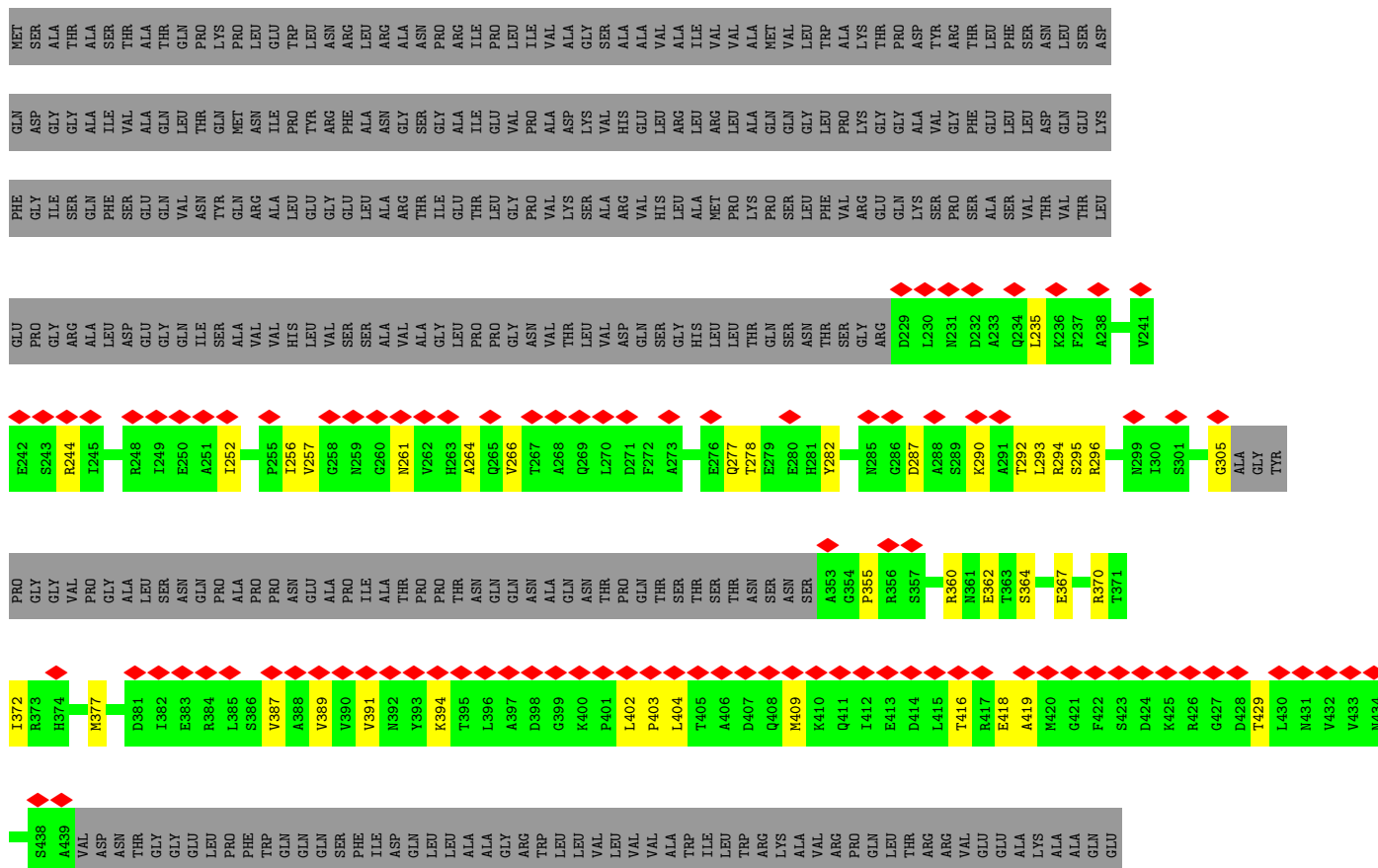


Chain Af:  17% 22% 7% 54%





- Molecule 6: Flagellar M-ring protein



- Molecule 6: Flagellar M-ring protein



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

[illegible][illegible]

M377	M378	M379	M380	M381	M382	M383	M384	M385	M386	M387	M388	M389	M390	M391	M392	M393	M394	M395	M396	M397	M398	M399	M400	M401	M402	M403	M404	M405	M406	M407	M408	M409	M410	M411	M412	M413	M414	M415	M416	M417	M418	M419	M420	M421	M422	M423	M424	M425	M426	M427	M428	M429	M430	M431	M432	M433	M434	M435
































S438
 VAL
 ASP
 ASN
 THR
 GLY
 GLY
 GLU
 LEU
 PRO
 PHE
 TRP
 GLN
 GLN
 GLN
 SER
 PHE
 ILE
 ASP
 GLN
 LEU
 LEU
 ALA
 ALA
 GLY
 GLY
 TRP
 LEU
 LEU
 VAL
 LEU
 VAL
 VAL
 ALA
 ALA
 TRP
 ILE
 LEU
 TRP
 TRP
 ARG
 LYS
 ALA
 VAL
 ARG
 PRO
 PRO
 GLN
 VAL
 GLU
 GLU
 ALA
 LYS
 ALA
 ALA
 GLN

ASN
ASP
HIS
GLU

- Molecule 6: Flagellar M-ring protein

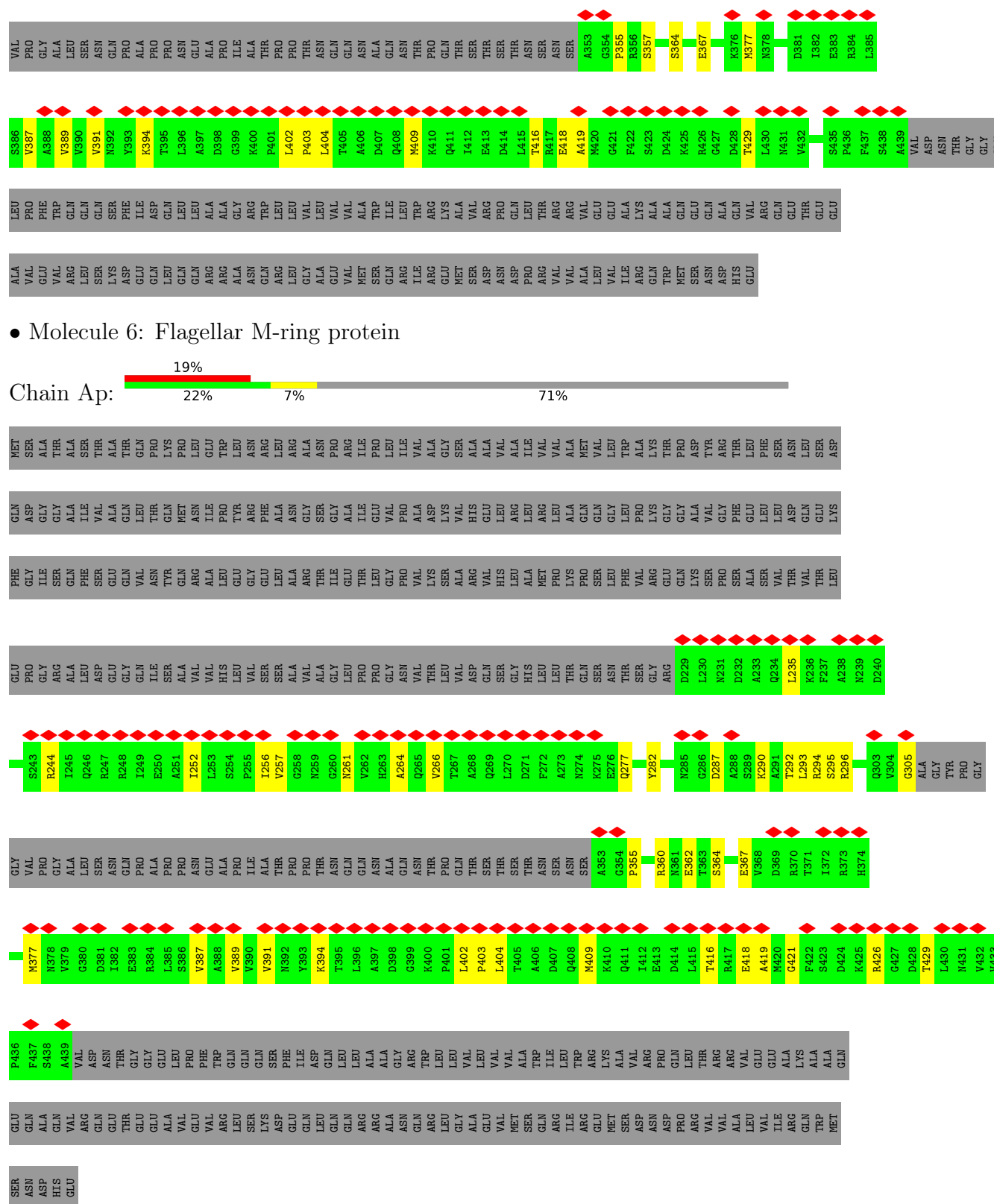


GLN ASP GLY GLY GLY ALA ALA ILE VAL ALA ALA ALA LEU LEU THR GLN MET ASN ILE PRO PRO TYR ARG ARG PHE ALA ALA ASN ASN GLY GLY SER SER GLY ALA ILE GLU GLU VAL VAL PRO PRO ALA ALA ASP LYS VAL VAL HIS HIS GLU LEU LEU ARG ARG ARG ALA LEU LEU ALA GLN GLN GLY GLY LEU LEU PRO PRO LYS GLY GLY GLY VAL VAL GLY GLY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

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

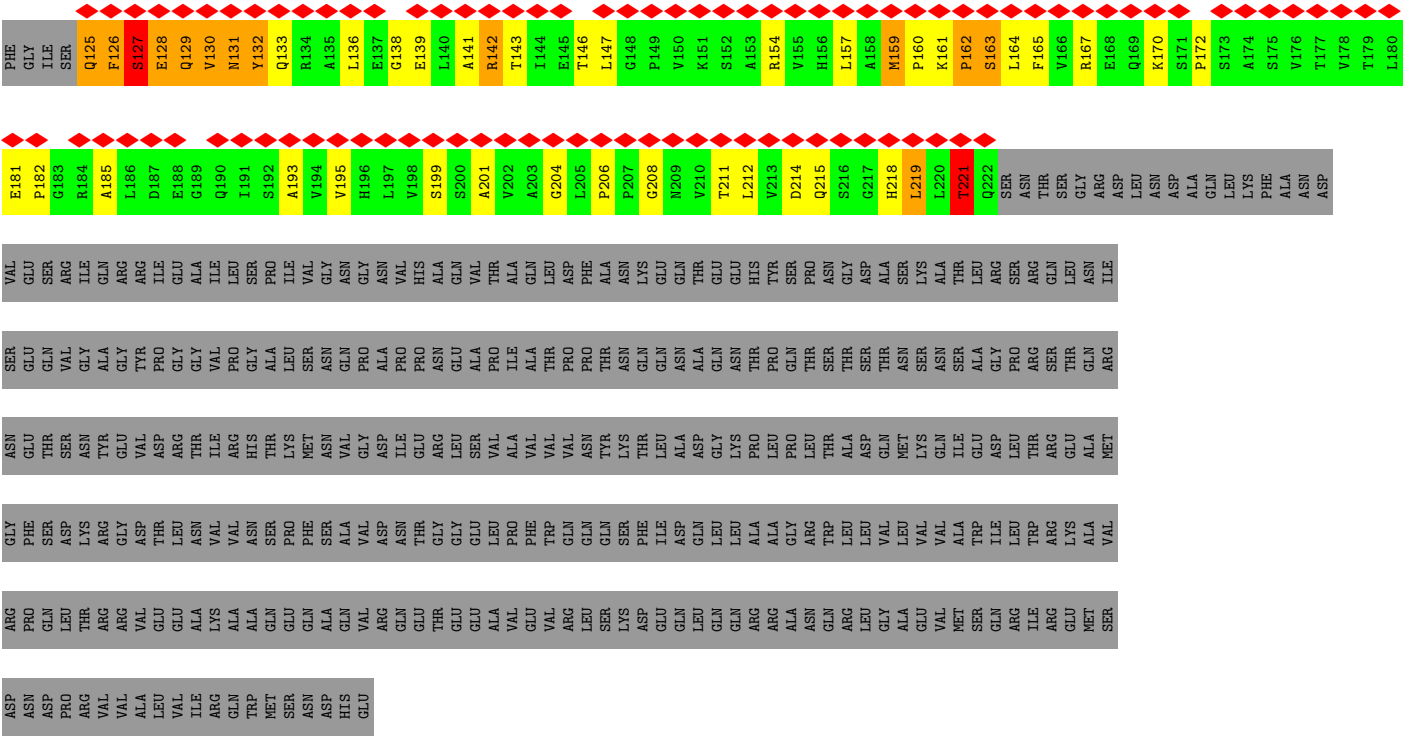




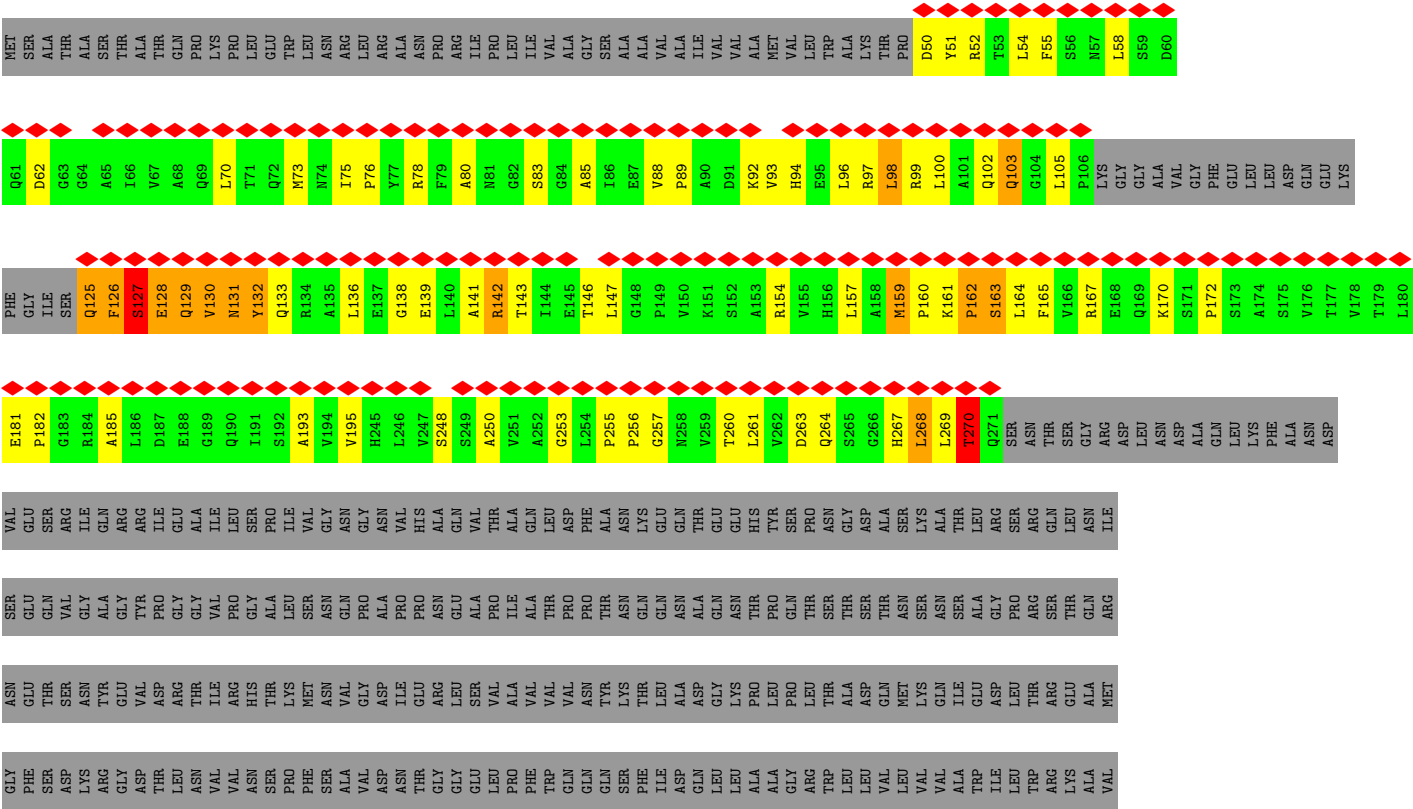


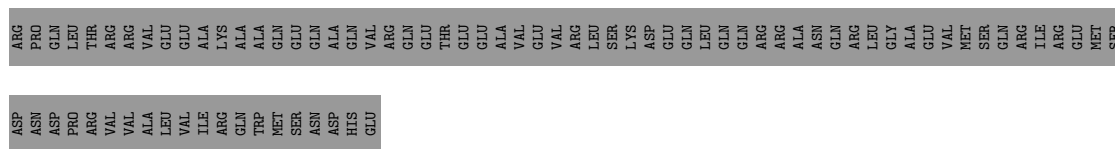
• Molecule 6: Flagellar M-ring protein



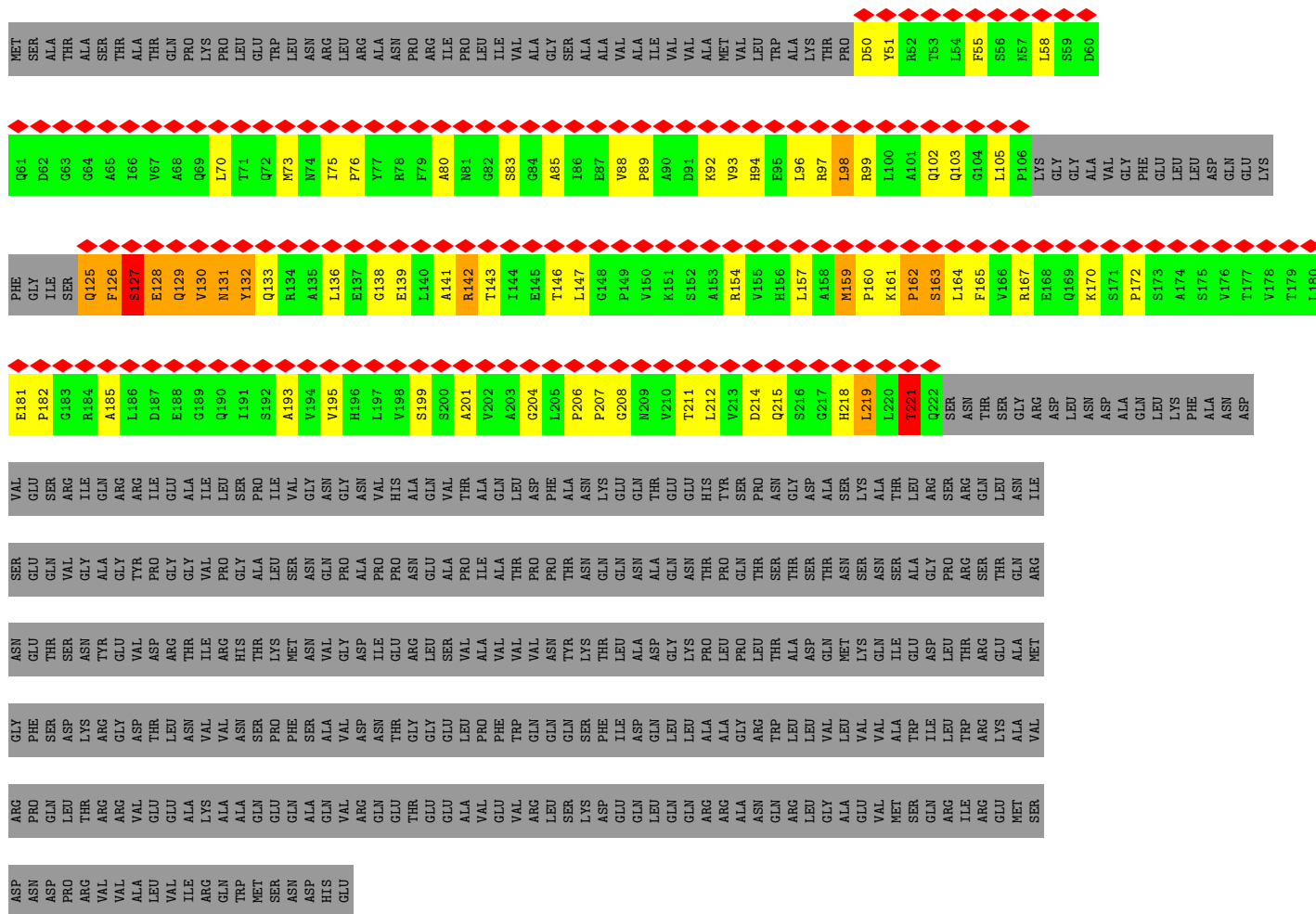


● Molecule 6: Flagellar M-ring protein

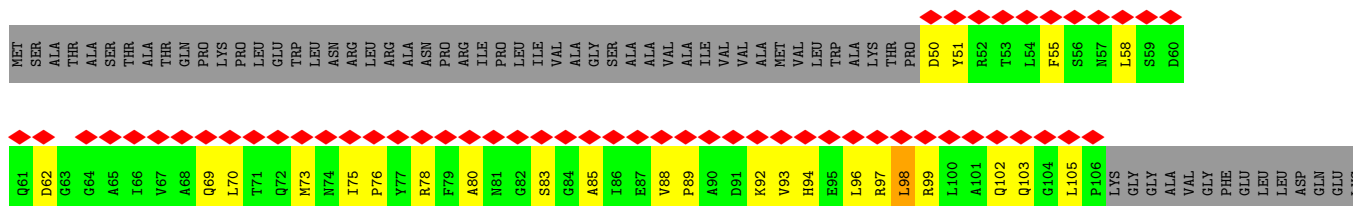


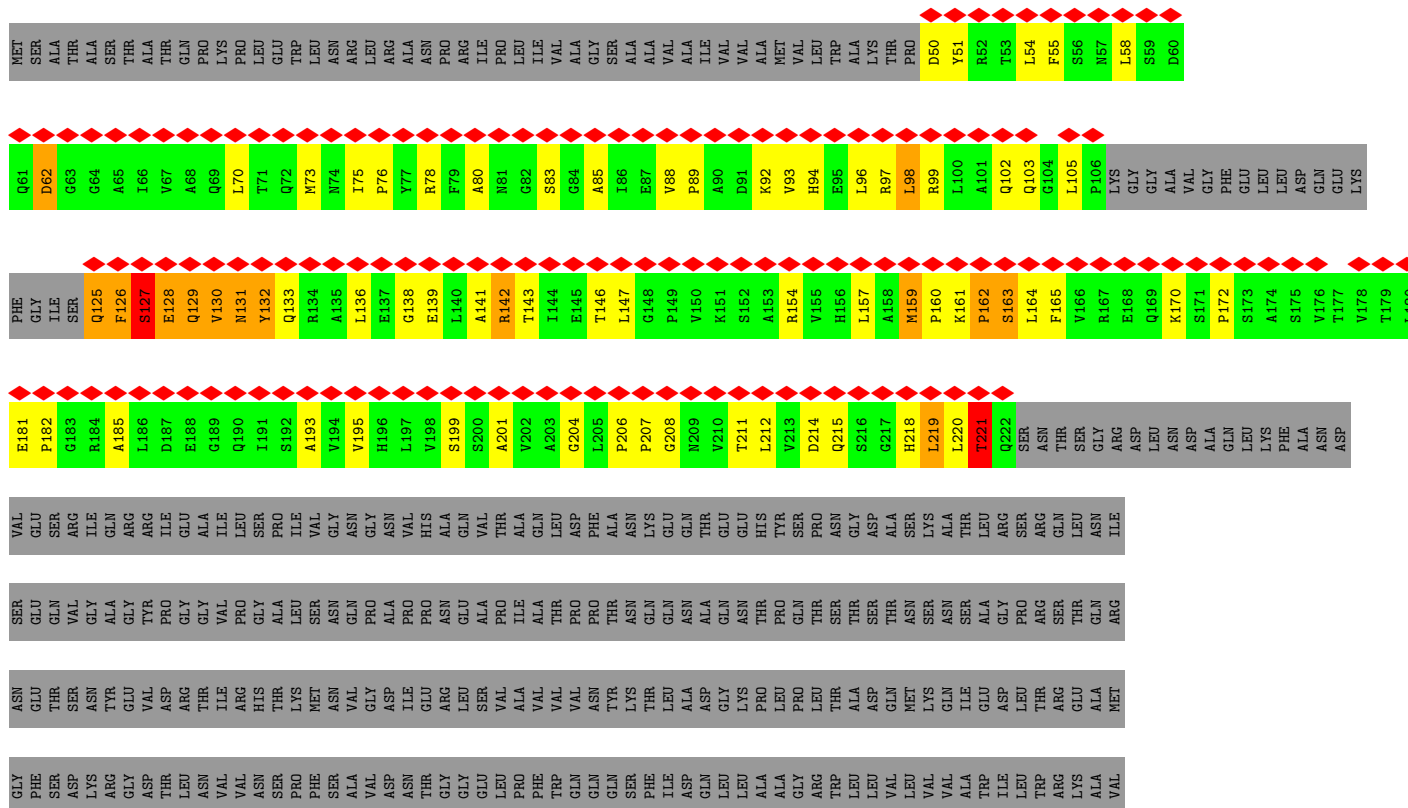


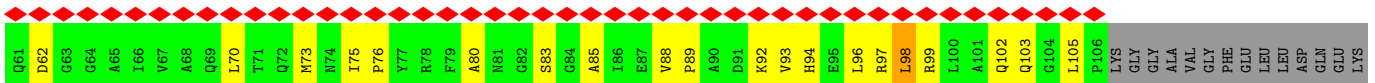
- Molecule 6: Flagellar M-ring protein



- Molecule 6: Flagellar M-ring protein







[illegible]

- Molecule 6: Flagellar M-ring protein



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

[illegible]

G122	I123	S124	G125	F126	S127	E128	G129	Y132	Q133	R134	A135	L136	E139	L140	A141	R142	T143	I144	E145	T146	L147	G148	S152	A153	A154	F155	H156	L157	A158	M159	P160	K161	P162	G166	S167	E168	Q169	K170	S173	A174	S175	V178	T179	L180	E181	P182	G183	A184	A185	L186	D187	G190

I191	S192	A193		H196	L197	S198	S199	S200	A201	V202	A203	G204	L205	P206	P207	G208	N209	V210	T211	L212	V213	D214	Q216	S216	G217	H218	L219	L220	T221	Q222	S223	ASN	THR	SER	GLY	ARG	ASP	ASP	ASN	ASP	ALA	LEU	GLN	LEU	LYS	PHE	ALA	ASP	ASP	VAL	GLU	GLU	GLU	ARG	ARG	ILE	ILE	GLU

ILE	LEU	SER	PRO	PRO	ILE	VAL	GLY	ASN	ASN	GLY	ASN	ASN	VAL	VAL	HIS	ALA	ALA	GLN	THR	THR	GLU	GLN	GLY	ASP	ASP	ALA	ALA	SER	LYS	ALA	ALA	THR	THR	LEU	ARG	SER	ARG	GLN	GLN	VAL	VAL	GLY	ALA	GLY	TYR	PRO	PRO	GLY	GLY

[illegible]

TLE	ARG	HIS	THR	LYS	MET	ASN	VAL	GLY	ASP	GLU	GLE	ARG	LEU	VAL	ALA	VAL	VAL	ASN	TYR	THR	LYS	THR	LEU	ALA	ASP	GLY	LYS	PRO	LEU	PHO	LEU	THR	THR	ASP	GLN	MET	LYS	ILE	GLU	ASP	LEU	THR	ARG	GLU	ALA	MET	PHE	GLY	GLY	ASP	THR	THR	LEU	ASN

VAL	ASN	VAL	ASN	SER	PRO	PHE	SER	ALA	ASP	ASN	THR	GLY	GLY	GLU	LEU	PHE	PHE	TRP	GLN	GLN	GLN	SER	PHE	ILE	ASP	GLN	LEU	LEU	ALA	ALA	GLY	ARG	TRP	LEU	VAL	LEU	VAL	VAL	VAL	ALA	ALA	ARG	ARG	LYS	LEU	THR	ARG	ARG	VAL	GLU	GLU	ALA

LYS
ALA
ALA
GLN
GLN
GLN
ALA
ALA
VAL
ARG
GLN
GLN
GLU
THR
GLU
GLU
ALA
ALA
VAL
GLU
VAL
ARG
ARG
SER
LYS
ASP
GLU
LEU
GLN
GLN
GLN
ARG
ARG
ALA
ASN
GLN
LEU
LEU
GLY
ALA
GLU
GLU
VAL
VAL
MET
SER
GLN
ARG
ILE
ARG
ARG
GLU
MET
SER
ASN
ASP
PRO
ARG
VAL
VAL
ALA
LEU
VAL
ILE

ARG
GLN
TRP
MET
SER
ASN
ASP
HIS
GLU

- Molecule 6: Flagellar M-ring protein

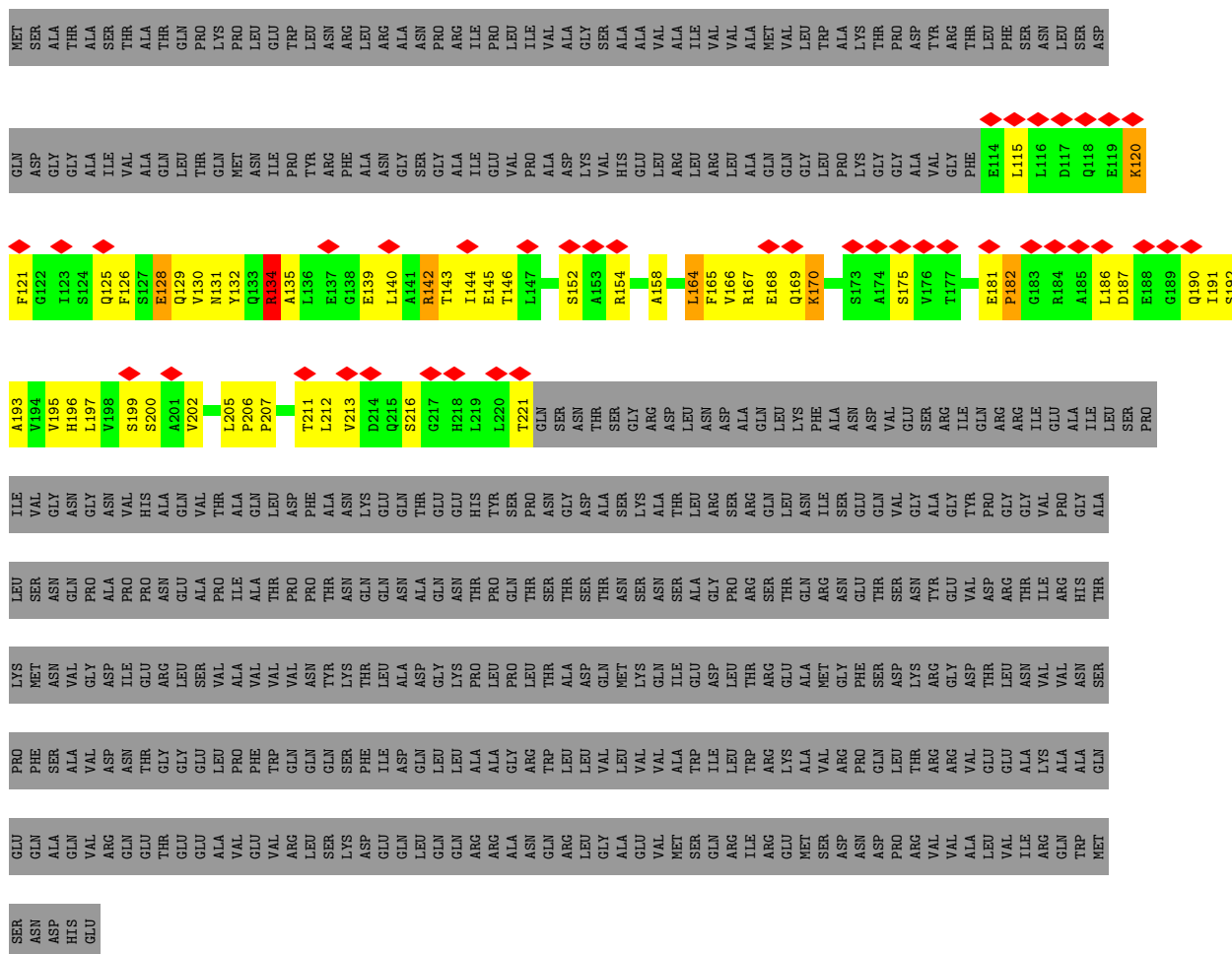


Met	Ser	Ala	Thr	Ala	Ser	Thr	Ala	Gln	Pro	Pro	Leu	Glu	Trp	Leu	Asn	Arg	Leu	Arg	Ala	Ala	Asn	Pro	Arg	Ile	Ile	Val	Ala	Gly	Ser	Ala	Ala	Val	Val	Met	Val	Leu	Trp	Asp	Tyr	Arg	Thr	Leu	Phe	Ser	Asn	Leu	Ser	Met

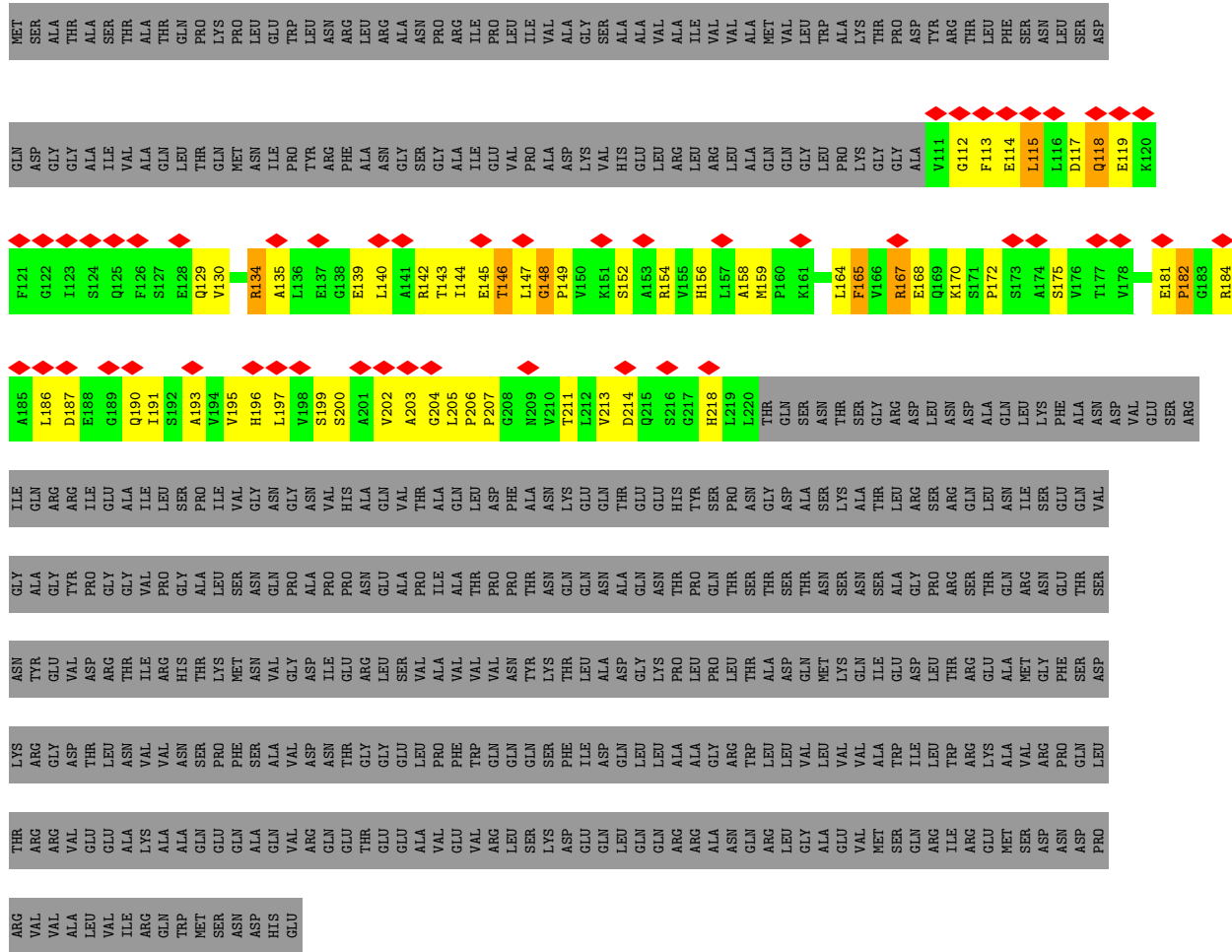
GLN	ASP	GLY	GLY	ALA	ILE	VAL	ALA	GLN	LEU	THR	GLN	MET	ASN	ILE	PRO	TYR	ARG	PHE	ALA	ALA	ASN	SER	GLY	GLY	ALA	ILE	GLU	VAL	PRO	ALA	ASP	LYS	HIS	VAL	HIS	GLU	LEU	ARG	LEU	ARG	LEU	LYS	PRO	GLY	GLY	ALA	VAL	G12	F13	E14	L15	L16	D17	Q18	E19	L20

[illegible]

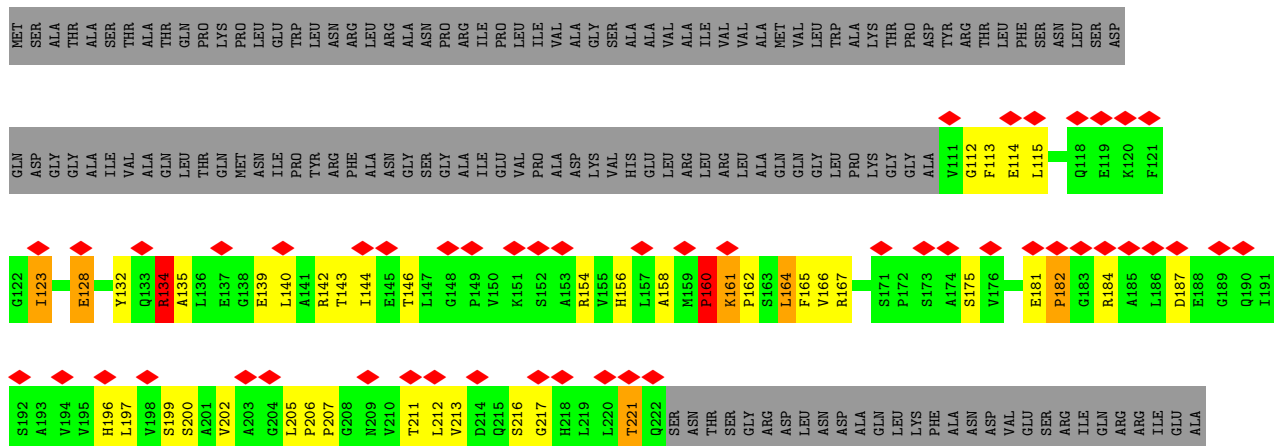
- Molecule 6: Flagellar M-ring protein

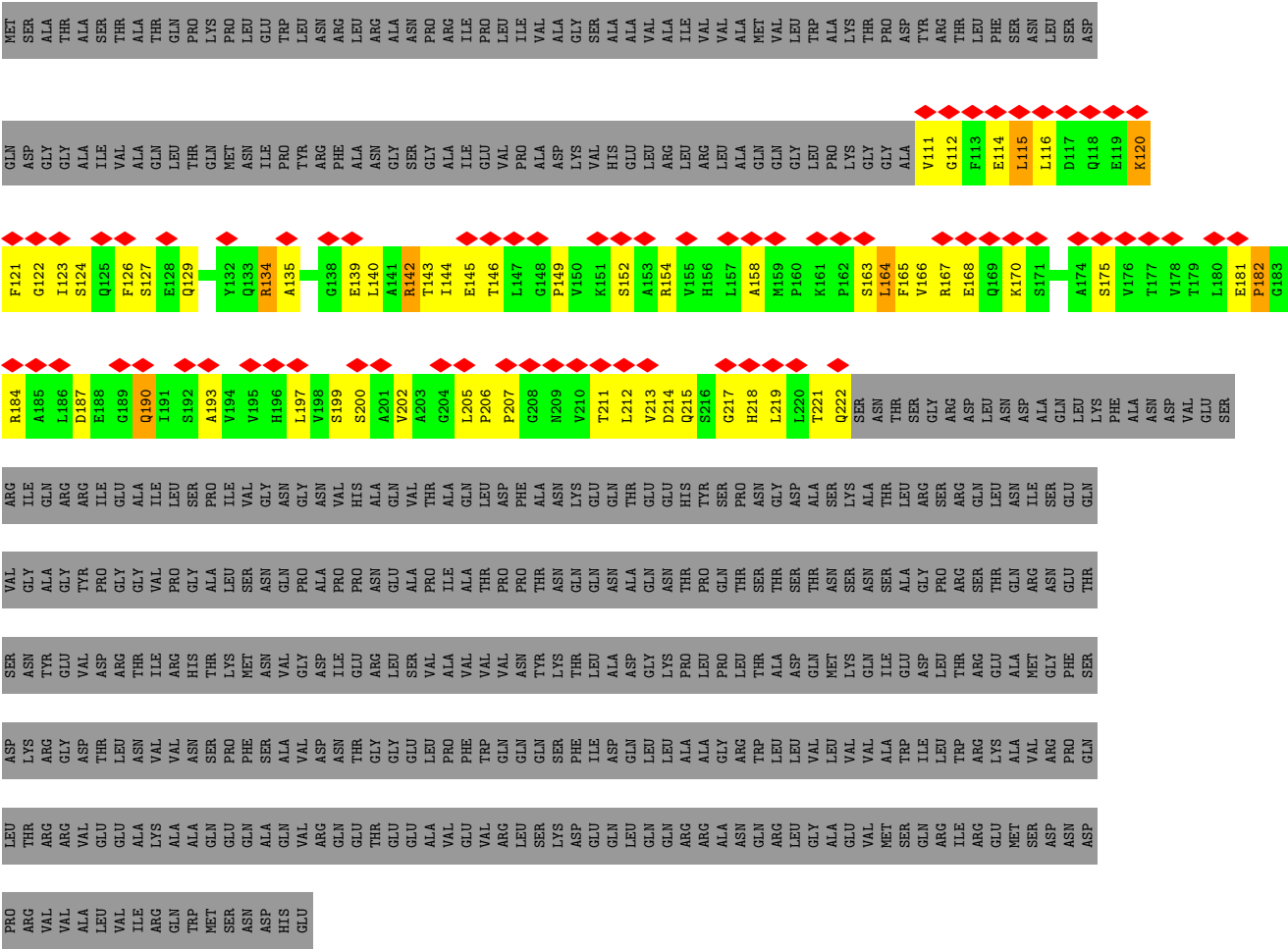


Chain WD:

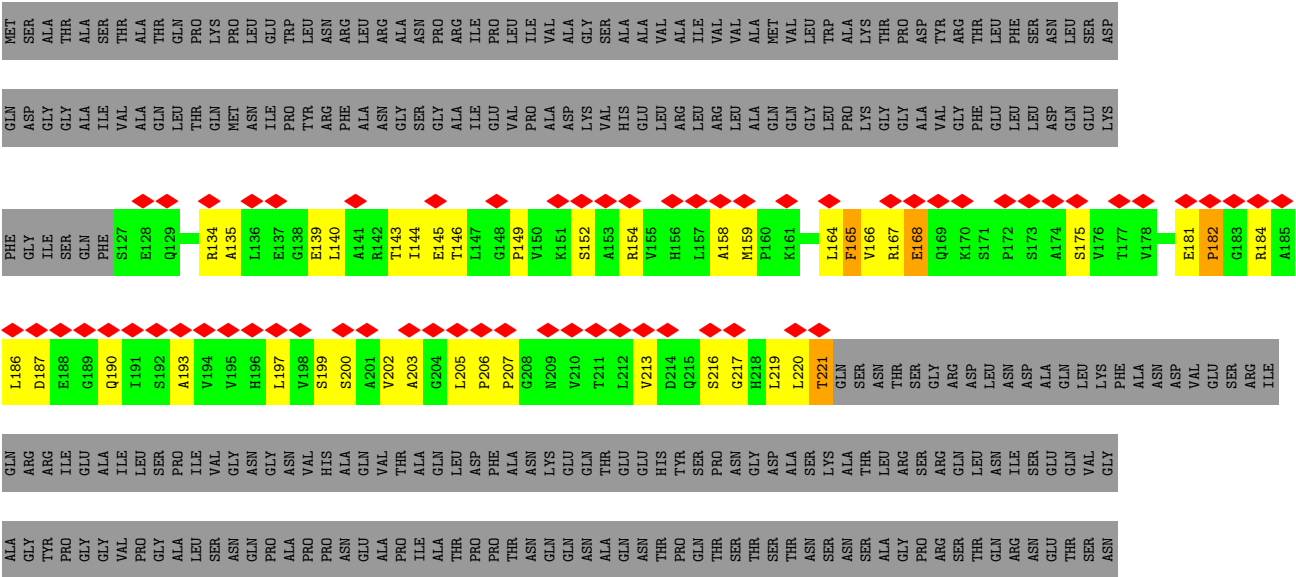


Chain WE:





● Molecule 6: Flagellar M-ring protein



[illegible]

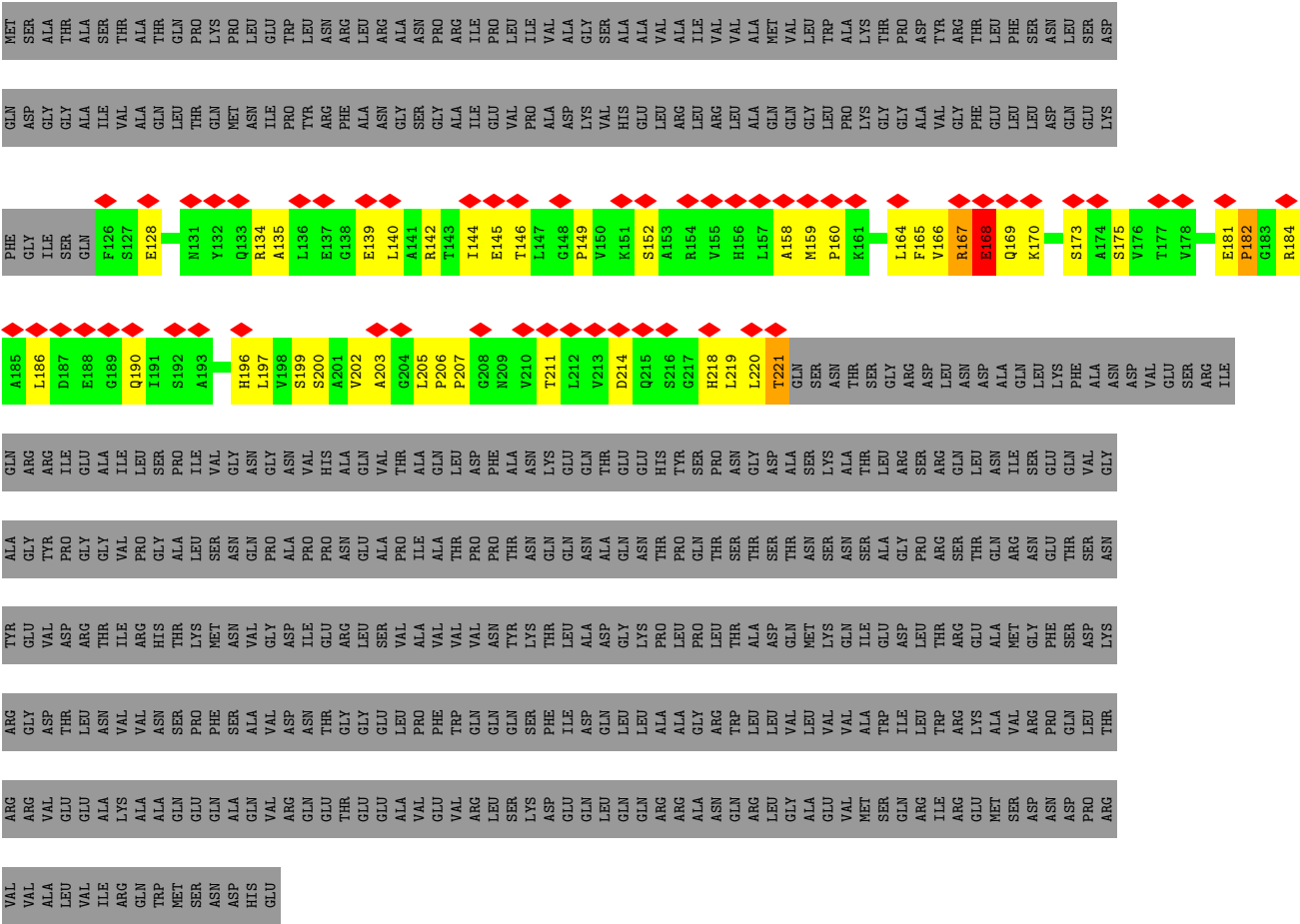
- Molecule 6: Flagellar M-ring protein

[illegible]

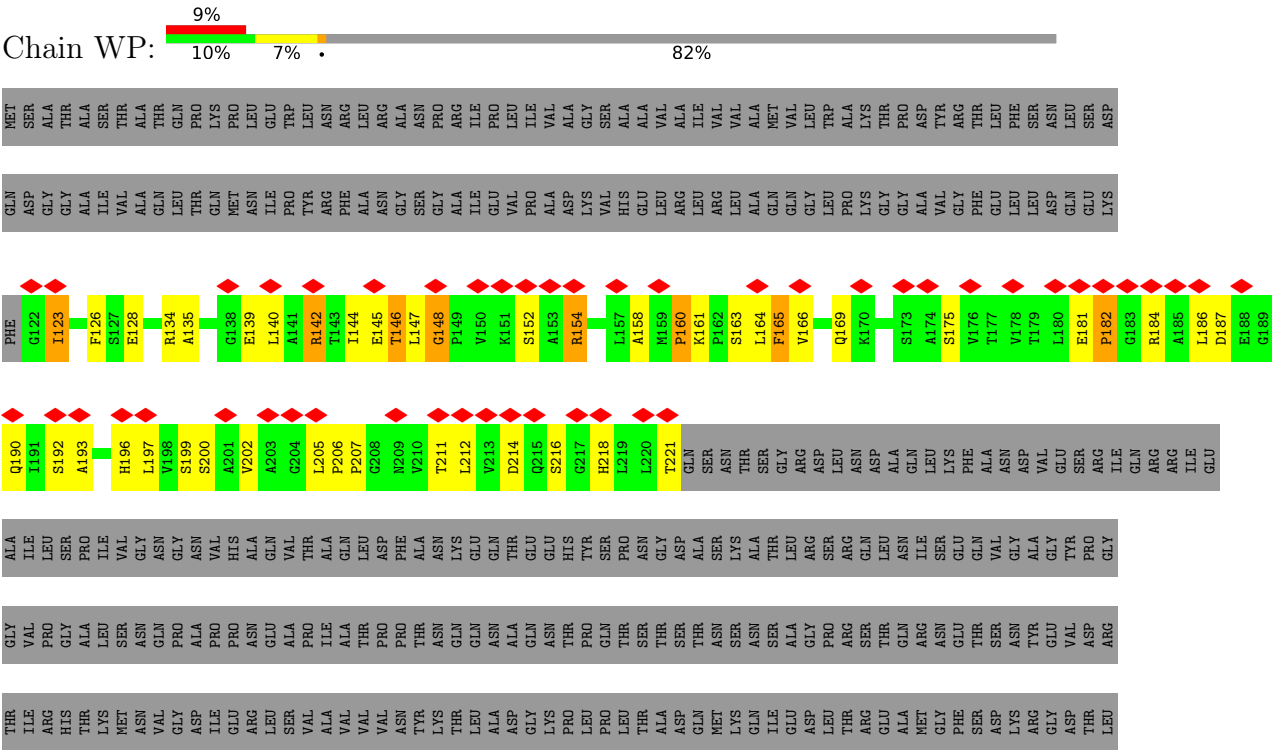
- Molecule 6: Flagellar M-ring protein

[illegible]

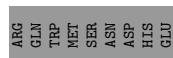
E181	P182	G183	R184	A185	L186	D187	E188	G189	Q190	T191	S192	A193	V194	V195	H196	L197	V198	S199	S200	A201	V202	A203	G204	L205	P206	P207	G208	N209	T210	T211	L212	V213	D214	Q215	S216	G217	H218	L219	L220	T221	GLN	SER	ASN	THR	SER	GLY	ARG	ASP	LEU	ASN	ASP	ALA	GLN	LEU	LYS	PHE	ALA	ASN	ASP



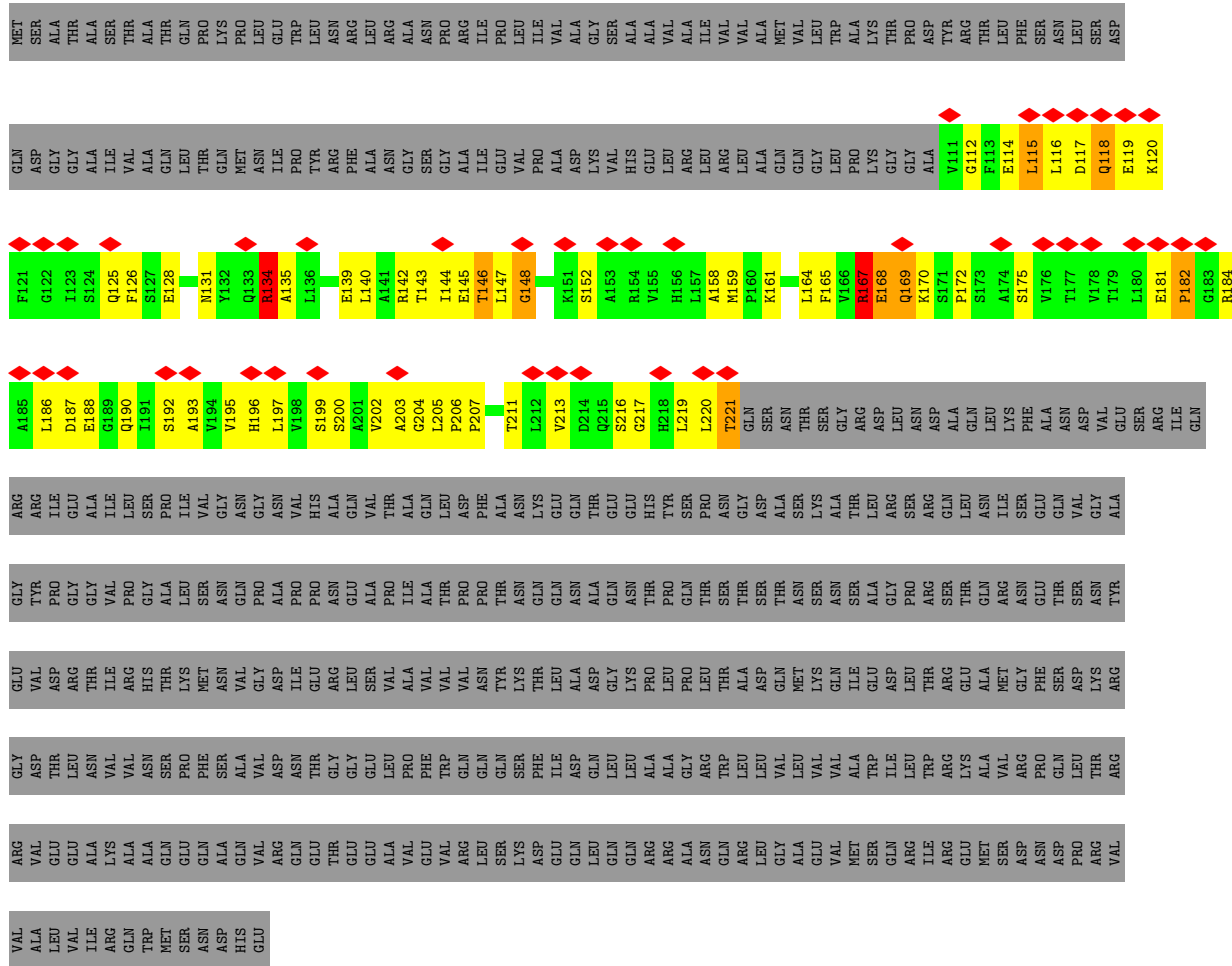
● Molecule 6: Flagellar M-ring protein







Chain WW:



Chain BG: 98%



Molecule 6: Flagellar M-ring protein

Chain BJ: 97%

Residue Number	Chain BJ	Other Sequences
1	PHE	PHE
2	GLY	GLY
3	SER	SER
4	GLN	GLN
5	VAL	VAL
6	ASP	ASP
7	THR	THR
8	LEU	LEU
9	ASN	ASN
10	THR	THR
11	ILE	ILE
12	LYS	LYS
13	ARG	ARG
14	GLN	GLN
15	ALA	ALA
16	VAL	VAL
17	THR	THR
18	GLY	GLY
19	ASP	ASP
20	GLN	GLN
21	ARG	ARG
22	THR	THR
23	ASP	ASP
24	LEU	LEU
25	ASN	ASN
26	THR	THR
27	ILE	ILE
28	GLN	GLN
29	VAL	VAL
30	PRO	PRO
31	ASP	ASP
32	THR	THR
33	LEU	LEU
34	ASN	ASN
35	THR	THR
36	ILE	ILE
37	GLN	GLN
38	VAL	VAL
39	PRO	PRO
40	ASP	ASP
41	THR	THR
42	LEU	LEU
43	ASN	ASN
44	THR	THR
45	ILE	ILE
46	GLN	GLN
47	VAL	VAL
48	PRO	PRO
49	ASP	ASP
50	THR	THR
51	LEU	LEU
52	ASN	ASN
53	THR	THR
54	ILE	ILE
55	GLN	GLN
56	VAL	VAL
57	PRO	PRO
58	ASP	ASP
59	THR	THR
60	LEU	LEU
61	ASN	ASN
62	THR	THR
63	ILE	ILE
64	GLN	GLN
65	VAL	VAL
66	PRO	PRO
67	ASP	ASP
68	THR	THR
69	LEU	LEU
70	ASN	ASN
71	THR	THR
72	ILE	ILE
73	GLN	GLN
74	VAL	VAL
75	PRO	PRO
76	ASP	ASP
77	THR	THR
78	LEU	LEU
79	ASN	ASN
80	THR	THR
81	ILE	ILE
82	GLN	GLN
83	VAL	VAL
84	PRO	PRO
85	ASP	ASP
86	THR	THR
87	LEU	LEU
88	ASN	ASN
89	THR	THR
90	ILE	ILE
91	GLN	GLN
92	VAL	VAL
93	PRO	PRO
94	ASP	ASP
95	THR	THR
96	LEU	LEU
97	ASN	ASN
98	THR	THR
99	ILE	ILE
100	GLN	GLN



WORLDWIDE
PDB
PROTEIN DATA BANK

[illegible]

- Molecule 6: Flagellar M-ring protein

Chain BQ: .. 96%

[illegible]

TRP
MET
SER
ASN
ASP
HIS
GLU

• Molecule 6: Flagellar M-ring protein



MET
SER
ALA
THR
SER
THR
ALA
THR
GLN
PRO
LYS
PRO
LEU
GLU
LEU
ASN
ARG
LEU
ALA
ARG
GLY
ALA
SER
ASN
GLY
PRO
GLY
ALA
ARG
ILE
TLE
PRO
GLU
VAL
PRO
ILE
THR
ALA
VAL
ASP
LYS
GLY
SER
VAL
ALA
HIS
GLU
ALA
VAL
LEU
VAL
ARG
LEU
TLE
VAL
VAL
VAL
ALA
ALA

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

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

GLU
PRO
GLY
ARG
ALA
LEU
ASP
LEU
GLY
GLN
ILE
SER
ALA
VAL
VAL
HIS
LEU
VAL
SER
SER
VAL
VAL
PRO
GLY
ASN
THR
VAL
VAL
THR
LEU
VAL
VAL
ASP
GLN
SER
GLY
HIS
LEU
MET
PRO
LYS
THR
GLN
SER
THR
ASN
THR
ARG
D229
L230
W231
D232
A233
Q234
L235
W236
F237
D240
W241

E242
S243
R244
I245
Q246
R247
R248
I249
E250
I251
I252
P255
I256
V257
Q258
W259
Q260
W261
V262
H263
A264
Q265
V266
T267
A268
Q269
L270
D271
F272
A273
W274
Q277
T278
Y282
G286
D287
A288
S289
K290
I291
T292
L293
R294
S295
R296
I300
G305
ALA
GLY
TYR
PRO
GLY
GLY
VAL

PRO
GLY
ALA
LEU
SER
ASN
GLN
PRO
ALA
PRO
PRO
ASN
GLU
ALA
TLE
ILE
ALA
THR
PRO
PRO
THR
THR
GLN
GLN
ASN
ALA
GLN
ASN
THR
PRO
GLN
THR
SER
THR
SER
THR
ASN
SER
SER
SER
A353
G354
P355
R356
S357
T358
Q359
R360
R361
E362
T363
S364
E367
R370
T371
I372
R373
H374

T375
R376
M377
M378
V379
D380
D381
T382
E383
R384
L385
V387
A388
V389
V390
R392
Y393
K394
T395
L396
A397
D398
G399
K400
P401
L402
P403
L404
T405
A406
D407
Q408
M409
K410
Q411
I412
E413
D414
L415
T416
R417
E418
A419
M420
G421
F422
S423
D424
K425
R426
G427
D428
T429
L430
M431
V432
V433
M434

S435
P436
F437
S438
A439
VAL
ASP
ASN
THR
THR
GLU
GLY
GLY
GLU
LEU
PHE
TRP
GLN
GLN
LYS
SER
PHE
GLN
ILE
ASP
GLN
LEU
LEU
ARG
LEU
ALA
ALA
GLY
ARG
TRP
LEU
VAL
VAL
MET
SER
TRP
ILE
GLN
ASP
VAL
ASN
ASP
PRO
GLN
THR
VAL
ARG
VAL
VAL
VAL
GLU
GLU
GLU
LYS
ALA
ALA
ALA

GLN
GLU
GLN
ALA
GLN
VAL
ARG
GLN
GLN
GLN
VAL
VAL
LEU
LEU
SER
SER
LYS
ASP
GLY
GLN
GLN
ILE
PRO
GLY
GLN
GLN
ILE
TLE
PRO
ARG
ALA
ALA
ALA
GLN
ARG
GLY
GLY
ALA
VAL
VAL
MET
GLN
VAL
VAL
ILE
ILE
MET
VAL
GLY
GLU
GLU
MET
VAL
TRP
MET
LYS
ASP
ASN
ASP
PRO
ARG
VAL
VAL
VAL
VAL
VAL
VAL
VAL
ILE
ILE
ARG
GLN
SER
GLN
TRP

MET
SER
ASN
ASP
HIS
GLU

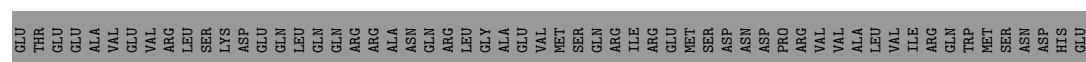
• Molecule 6: Flagellar M-ring protein



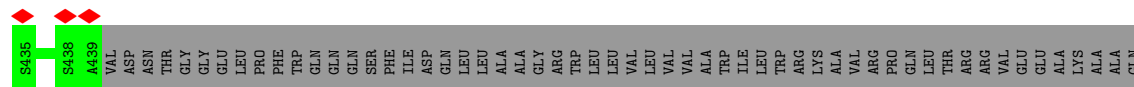
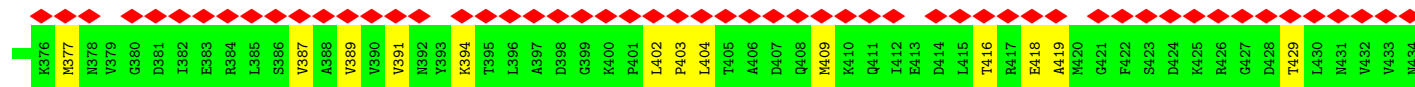
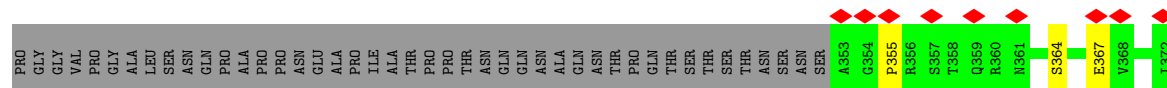
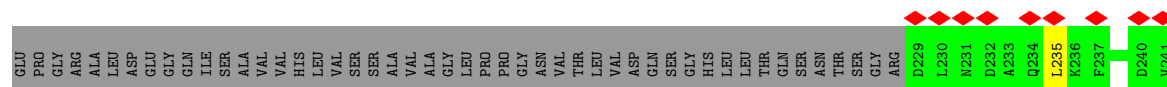
MET
SER
ALA
THR
SER
THR
ALA
THR
GLN
PRO
LYS
PRO
LEU
GLU
TRP
LEU
ASN
ARG
LEU
ALA
ARG
GLY
ALA
SER
ASN
GLY
PRO
GLY
ALA
ARG
ILE
TLE
PRO
GLU
VAL
ILE
VAL
VAL
VAL
VAL
GLY
SER
VAL
VAL
VAL
GLN
MET
VAL
VAL
VAL
ALA
ALA
MET
GLN
MET
VAL
VAL
TRP
LEU

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

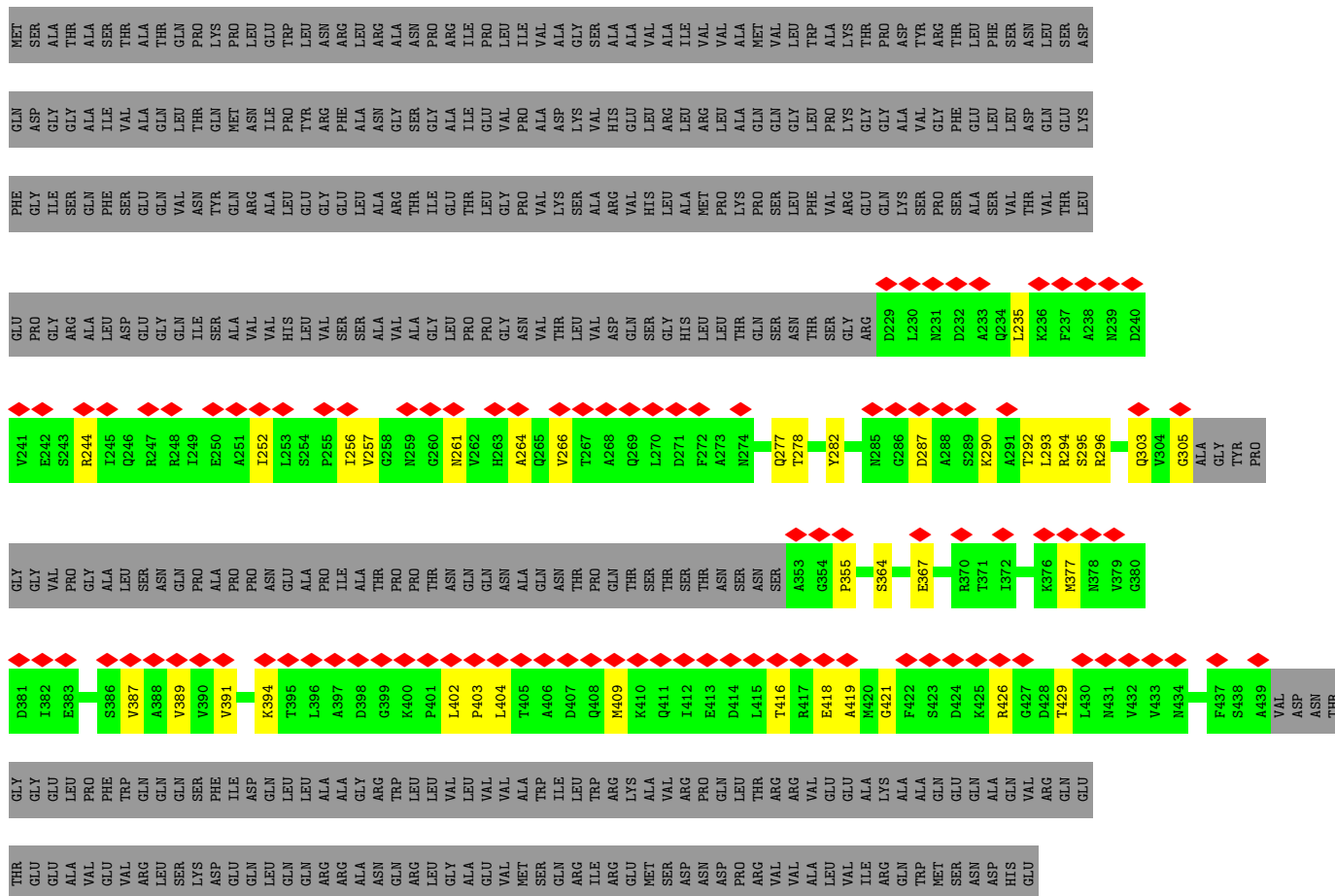
PHE
GLY
ILE
SER
GLN
PHE
SER
GLU
GLN
VAL
ASN
THR
TYR
GLN
ARG
GLN
LEU
ALA
GLY
GLY
GLU
GLY
PHE
LEU
ALA
ASN
GLY
TLE
GLY
ALA
TLE
THR
LEU
GLY
VAL
PRO
VAL
VAL
SER
LYS
SER
ALA
VAL
VAL
HIS
GLU
VAL
LEU
ARG
LEU
ALA
MET
PRO
LYS
THR
GLN
PHE
VAL
VAL
GLY
GLY
LYS
SER
SER
PRO
SER
ALA
VAL
VAL
THR
VAL
THR
LEU



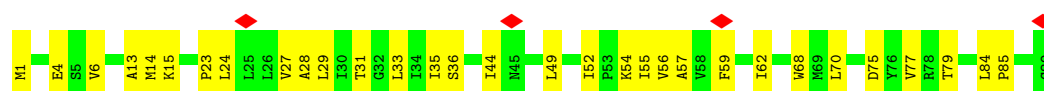
- Molecule 6: Flagellar M-ring protein



- Molecule 6: Flagellar M-ring protein

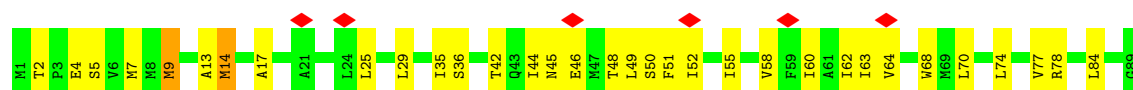


Chain Ar:  65% 35%



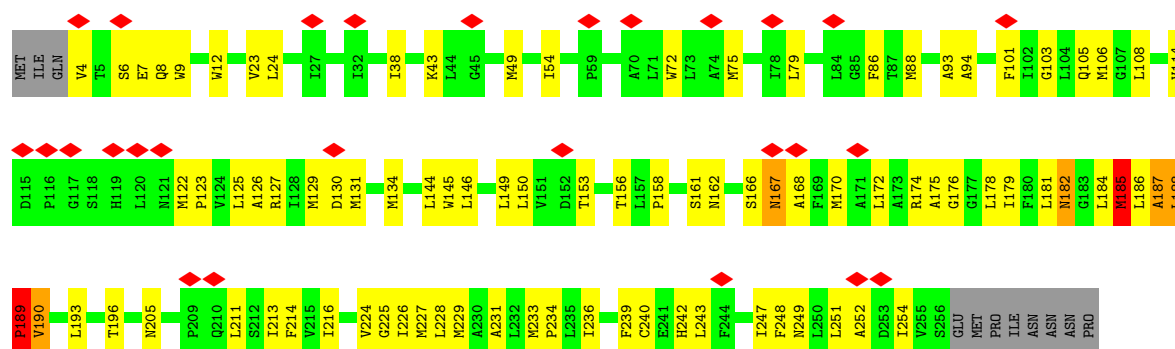
• Molecule 7: Flagellar biosynthetic protein FliQ

Chain As:  7% 63% 35%



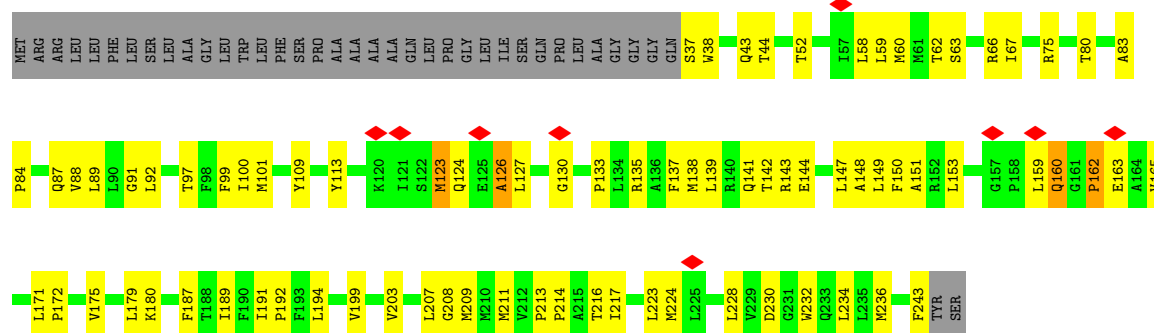
• Molecule 8: Flagellar biosynthetic protein FliR

Chain At:  10% 62% 31%



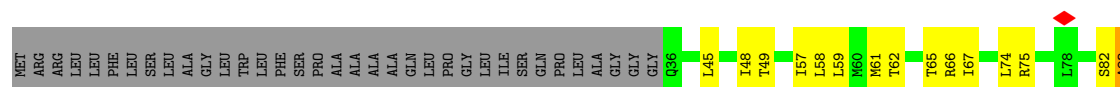
• Molecule 9: Flagellar biosynthetic protein FliP

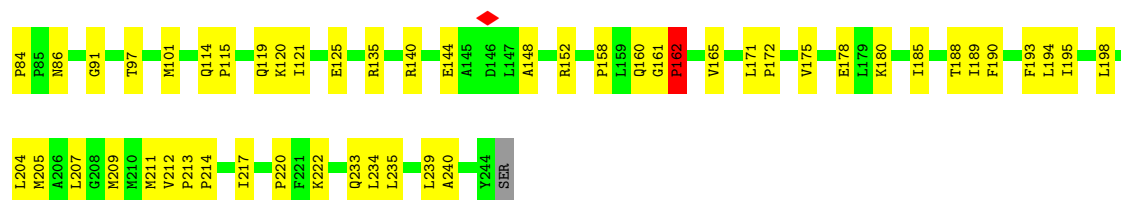
Chain Au:  52% 31% 16%



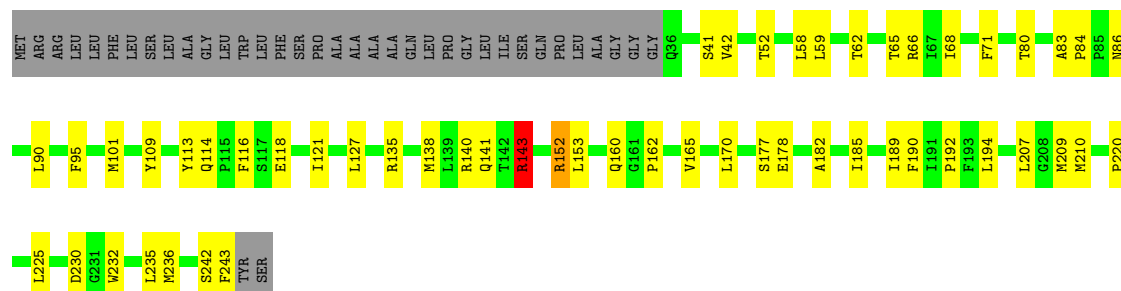
• Molecule 9: Flagellar biosynthetic protein FliP

Chain Av:  59% 26% 15%

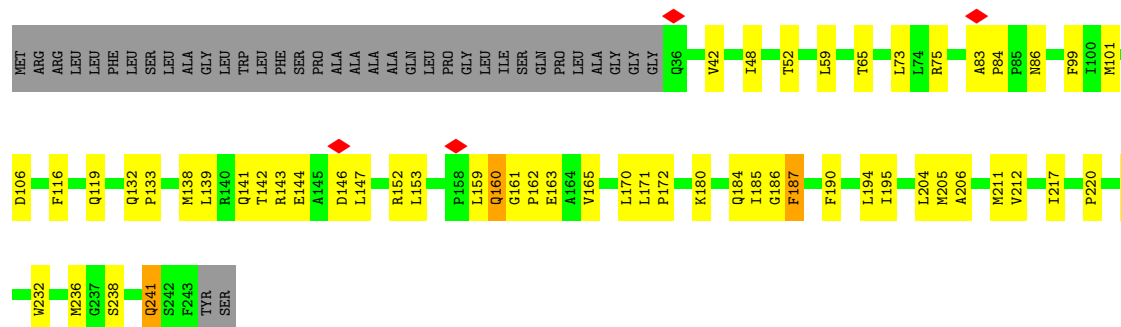




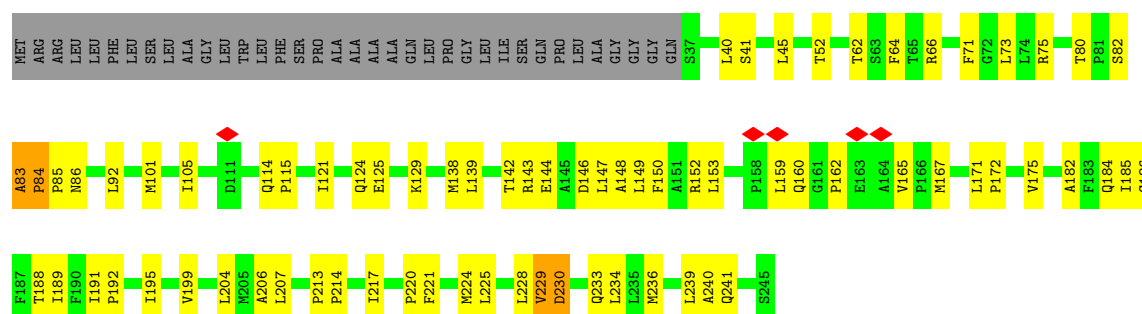
• Molecule 9: Flagellar biosynthetic protein FlpP



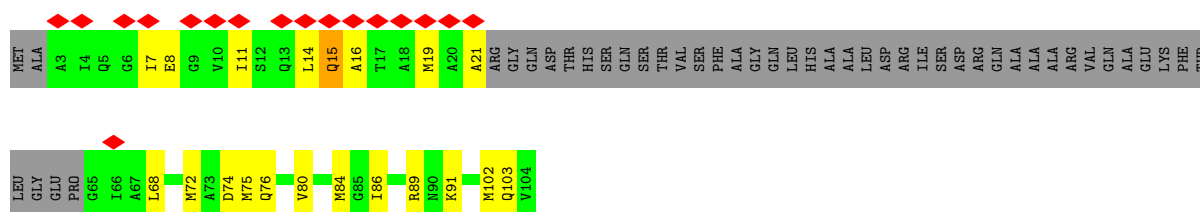
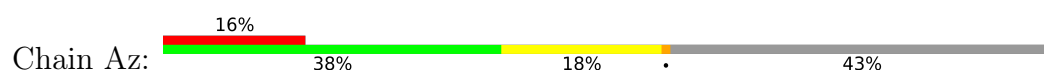
• Molecule 9: Flagellar biosynthetic protein FlpP



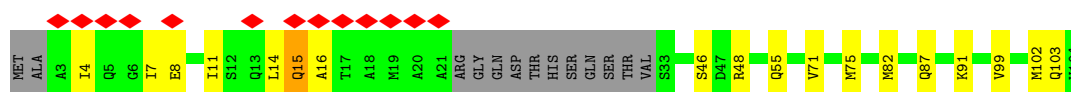
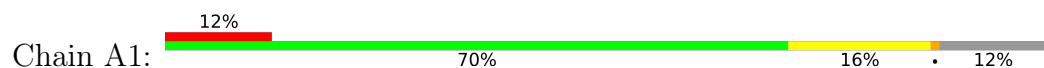
• Molecule 9: Flagellar biosynthetic protein FlpP



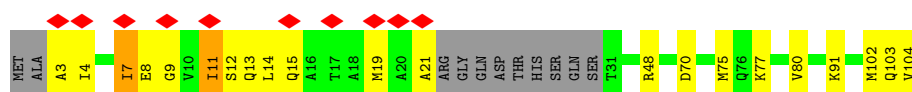
• Molecule 10: Flagellar hook-basal body complex protein FlpE



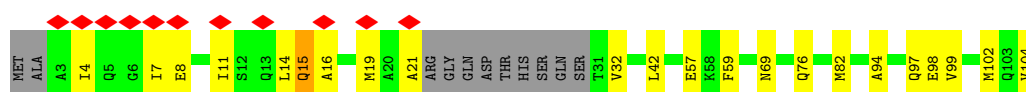
- Molecule 10: Flagellar hook-basal body complex protein FliE



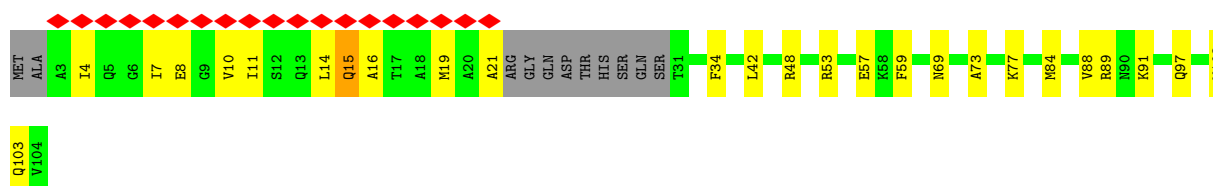
- Molecule 10: Flagellar hook-basal body complex protein FliE



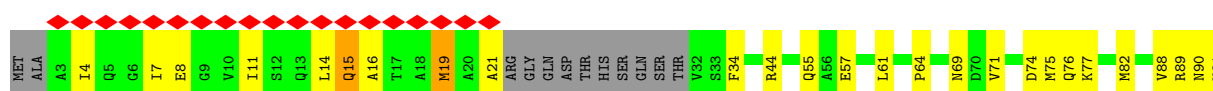
- Molecule 10: Flagellar hook-basal body complex protein FliE



- Molecule 10: Flagellar hook-basal body complex protein FliE

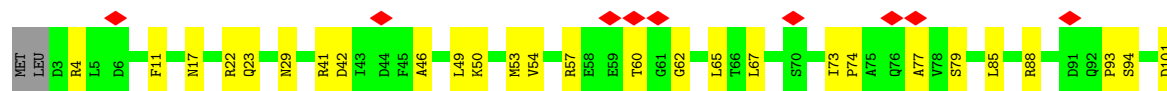


- Molecule 10: Flagellar hook-basal body complex protein FliE

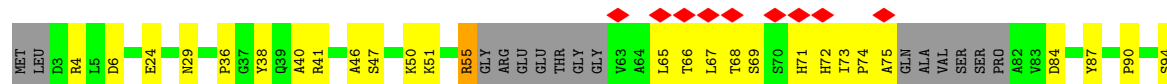




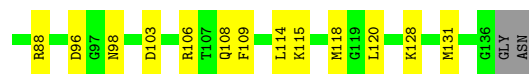
- Molecule 11: Flagellar basal body rod protein FlgB



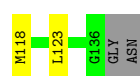
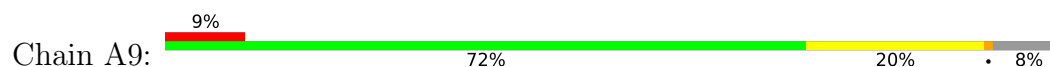
- Molecule 11: Flagellar basal body rod protein FlgB



- Molecule 11: Flagellar basal body rod protein FlgB

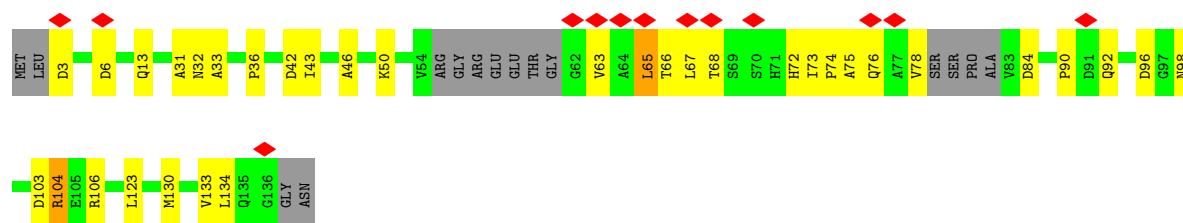


- Molecule 11: Flagellar basal body rod protein FlgB

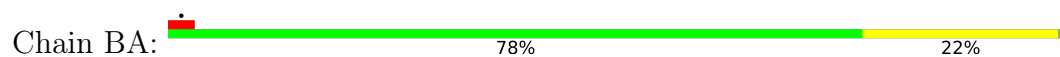


- Molecule 11: Flagellar basal body rod protein FlgB

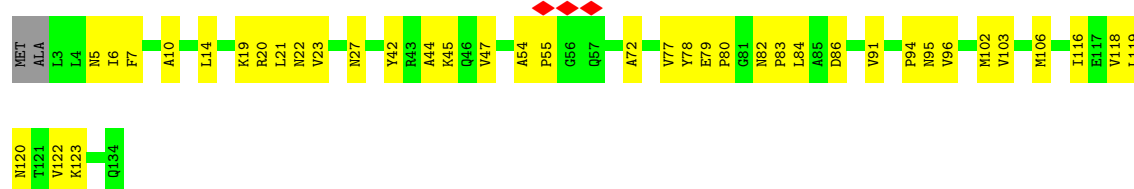




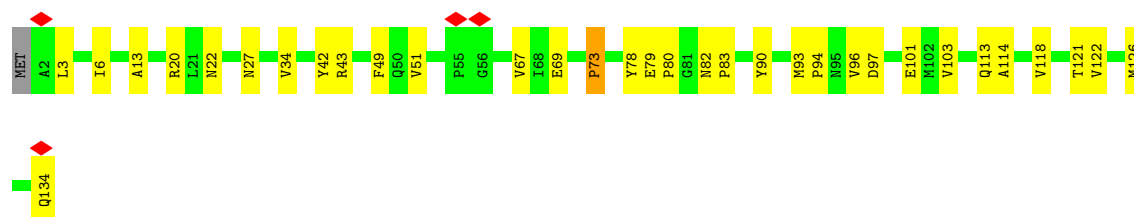
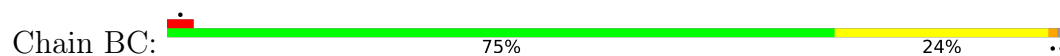
- Molecule 12: Flagellar basal-body rod protein FlgC



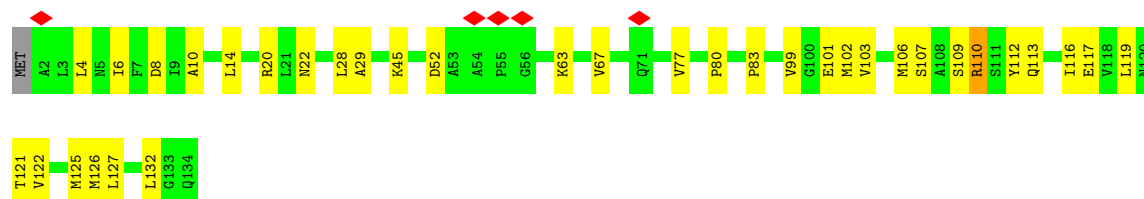
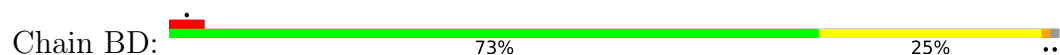
- Molecule 12: Flagellar basal-body rod protein FlgC



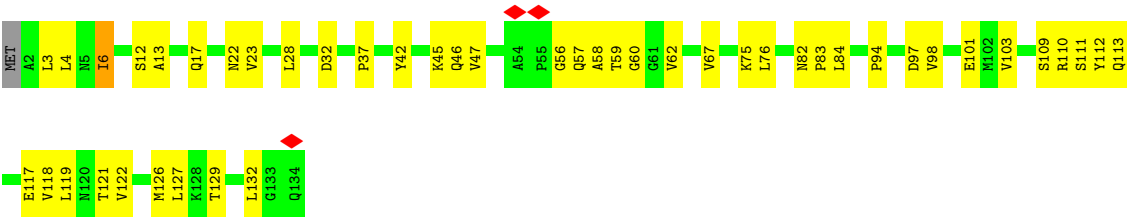
- Molecule 12: Flagellar basal-body rod protein FlgC



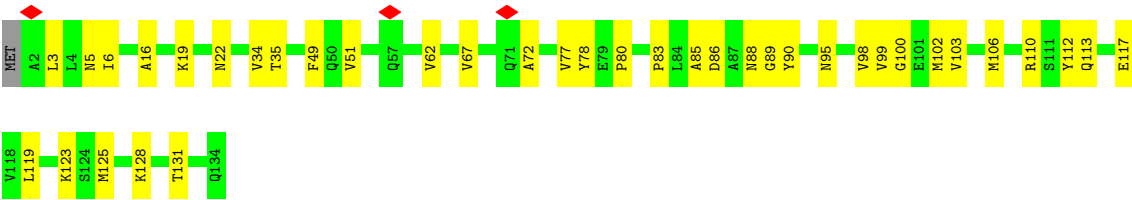
- Molecule 12: Flagellar basal-body rod protein FlgC



- Molecule 12: Flagellar basal-body rod protein FlgC



● Molecule 12: Flagellar basal-body rod protein FlgC



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	24191	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	1800	Depositor
Magnification	105000	Depositor
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	1.118	Depositor
Minimum map value	-0.684	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.052	Depositor
Recommended contour level	0.18	Depositor
Map size (Å)	614.4, 614.4, 614.4	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.2, 1.2, 1.2	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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	A	0.17	0/1613	0.34	0/2194
1	B	0.18	0/1613	0.34	0/2194
1	C	0.17	0/1613	0.34	0/2194
1	D	0.17	0/1613	0.34	0/2194
1	E	0.17	0/1613	0.34	0/2194
1	F	0.17	0/1613	0.34	0/2194
1	G	0.17	0/1613	0.34	0/2194
1	H	0.17	0/1613	0.34	0/2194
1	I	0.17	0/1613	0.34	0/2194
1	J	0.17	0/1613	0.34	0/2194
1	K	0.17	0/1613	0.34	0/2194
1	L	0.17	0/1613	0.34	0/2194
1	M	0.17	0/1613	0.34	0/2194
1	N	0.17	0/1613	0.34	0/2194
1	O	0.17	0/1613	0.34	0/2194
1	P	0.17	0/1613	0.34	0/2194
1	Q	0.17	0/1613	0.34	0/2194
1	R	0.17	0/1613	0.34	0/2194
1	S	0.17	0/1613	0.34	0/2194
1	T	0.17	0/1613	0.34	0/2194
1	U	0.17	0/1613	0.34	0/2194
1	V	0.17	0/1613	0.34	0/2194
1	W	0.17	0/1613	0.34	0/2194
1	X	0.17	0/1613	0.34	0/2194
1	Y	0.17	0/1613	0.34	0/2194
1	Z	0.17	0/1613	0.34	0/2194
2	a	0.15	0/2243	0.35	0/3041
2	b	0.15	0/2243	0.36	0/3041
2	c	0.15	0/2243	0.35	0/3041
2	d	0.15	0/2243	0.36	0/3041
2	e	0.15	0/2243	0.36	0/3041
2	f	0.15	0/2243	0.36	0/3041
2	g	0.15	0/2243	0.36	0/3041
2	h	0.15	0/2243	0.36	0/3041

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	i	0.15	0/2243	0.36	0/3041
2	j	0.15	0/2243	0.36	0/3041
2	k	0.15	0/2243	0.35	0/3041
2	l	0.15	0/2243	0.36	0/3041
2	m	0.15	0/2243	0.36	0/3041
2	n	0.15	0/2243	0.35	0/3041
2	o	0.15	0/2243	0.36	0/3041
2	p	0.15	0/2243	0.36	0/3041
2	q	0.15	0/2243	0.36	0/3041
2	r	0.15	0/2243	0.36	0/3041
2	s	0.15	0/2243	0.35	0/3041
2	t	0.15	0/2243	0.36	0/3041
2	u	0.15	0/2243	0.36	0/3041
2	v	0.15	0/2243	0.36	0/3041
2	w	0.15	0/2243	0.35	0/3041
2	x	0.15	0/2243	0.36	0/3041
2	y	0.15	0/2243	0.36	0/3041
2	z	0.15	0/2243	0.35	0/3041
3	0	0.28	0/1888	0.51	1/2564 (0.0%)
3	1	0.27	0/1917	0.52	0/2605
3	2	0.21	0/1973	0.46	0/2682
3	3	0.23	0/1973	0.47	0/2682
3	4	0.21	0/1973	0.46	0/2682
3	5	0.32	0/1973	0.58	0/2682
3	6	0.30	0/1973	0.57	0/2682
3	7	0.22	0/1973	0.45	0/2682
3	8	0.26	0/1973	0.52	0/2682
3	9	0.23	0/1973	0.54	2/2682 (0.1%)
3	AF	0.35	0/1926	0.60	0/2618
3	AG	0.40	0/1934	0.69	0/2629
3	AH	0.35	0/1942	0.64	3/2639 (0.1%)
3	AI	0.33	0/1926	0.60	3/2618 (0.1%)
3	AJ	0.31	0/1934	0.55	0/2629
3	AK	0.32	0/1844	0.58	1/2505 (0.0%)
3	AL	0.31	0/1888	0.53	0/2564
3	AM	0.30	0/1888	0.57	0/2564
3	AN	0.28	0/1888	0.51	0/2564
3	ZA	0.27	0/1973	0.51	0/2682
3	ZB	0.26	0/1973	0.50	0/2682
3	ZC	0.24	0/1973	0.51	0/2682
3	ZD	0.25	0/1973	0.53	0/2682
3	ZE	0.23	0/1973	0.46	0/2682
4	ZF	0.23	0/2991	0.48	2/4076 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
4	ZG	0.29	1/2991 (0.0%)	0.53	4/4076 (0.1%)
4	ZH	0.24	0/2991	0.48	1/4076 (0.0%)
4	ZI	0.27	0/2991	0.50	1/4076 (0.0%)
4	ZJ	0.28	0/2991	0.51	0/4076
4	ZK	0.17	0/2991	0.39	0/4076
4	ZL	0.23	0/2991	0.44	0/4076
4	ZM	0.22	0/2991	0.49	1/4076 (0.0%)
4	ZN	0.21	0/2991	0.46	1/4076 (0.0%)
4	ZO	0.27	0/2991	0.50	1/4076 (0.0%)
4	ZP	0.20	0/2991	0.43	1/4076 (0.0%)
4	ZQ	0.22	0/2991	0.48	0/4076
4	ZR	0.24	1/2991 (0.0%)	0.50	2/4076 (0.0%)
4	ZS	0.21	0/2991	0.44	0/4076
4	ZT	0.14	0/2991	0.35	0/4076
4	ZU	0.21	0/2991	0.43	0/4076
4	ZV	0.48	4/2991 (0.1%)	0.65	7/4076 (0.2%)
4	ZW	0.14	0/2991	0.37	0/4076
4	ZX	0.18	0/2991	0.41	0/4076
4	ZY	0.22	1/2991 (0.0%)	0.45	2/4076 (0.0%)
4	ZZ	0.13	0/2991	0.35	0/4076
4	Za	0.18	0/2991	0.41	1/4076 (0.0%)
4	Zb	0.25	0/2991	0.48	1/4076 (0.0%)
4	Zc	0.23	0/2991	0.49	3/4076 (0.1%)
4	Zd	0.25	0/2991	0.50	1/4076 (0.0%)
4	Ze	0.21	0/2991	0.48	0/4076
4	Zf	0.21	0/2991	0.45	0/4076
4	Zg	0.18	0/2991	0.42	0/4076
4	Zh	0.16	0/2991	0.38	0/4076
5	AA	0.36	0/1828	0.56	1/2492 (0.0%)
5	AB	0.27	0/1836	0.47	0/2502
5	AC	0.23	0/1844	0.44	0/2512
5	AD	0.17	0/1844	0.37	0/2512
5	AE	0.30	0/1836	0.49	1/2502 (0.0%)
6	AO	0.23	0/1289	0.44	1/1741 (0.1%)
6	AP	0.23	0/1289	0.44	1/1741 (0.1%)
6	AQ	0.23	0/1289	0.44	1/1741 (0.1%)
6	AR	0.22	0/1289	0.44	1/1741 (0.1%)
6	AS	0.23	0/1289	0.44	1/1741 (0.1%)
6	AT	0.23	0/1289	0.44	1/1741 (0.1%)
6	AU	0.23	0/1289	0.44	1/1741 (0.1%)
6	AV	0.23	0/1289	0.44	1/1741 (0.1%)
6	AW	0.23	0/1289	0.44	1/1741 (0.1%)
6	AX	0.23	0/1289	0.44	1/1741 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
6	AY	0.23	0/1289	0.44	1/1741 (0.1%)
6	AZ	0.23	0/1289	0.44	1/1741 (0.1%)
6	Aa	0.23	0/1289	0.44	1/1741 (0.1%)
6	Ac	0.23	0/1289	0.44	1/1741 (0.1%)
6	Ad	0.23	0/1289	0.44	1/1741 (0.1%)
6	Ae	0.23	0/1289	0.44	1/1741 (0.1%)
6	Af	0.23	0/1289	0.44	1/1741 (0.1%)
6	Ag	0.23	0/1289	0.44	1/1741 (0.1%)
6	Ah	0.23	0/1289	0.44	1/1741 (0.1%)
6	Ai	0.23	0/1289	0.44	1/1741 (0.1%)
6	Aj	0.23	0/1289	0.44	1/1741 (0.1%)
6	Ak	0.23	0/1289	0.44	1/1741 (0.1%)
6	Al	0.23	0/1289	0.44	1/1741 (0.1%)
6	Am	0.22	0/1289	0.44	1/1741 (0.1%)
6	An	0.23	0/1289	0.44	1/1741 (0.1%)
6	Ao	0.22	0/1289	0.44	1/1741 (0.1%)
6	Ap	0.23	0/1289	0.44	1/1741 (0.1%)
6	BG	0.71	0/83	0.97	0/114
6	BH	0.17	0/107	0.37	0/148
6	BI	0.27	0/137	0.52	0/191
6	BJ	0.20	0/107	0.45	0/148
6	BK	1.32	1/145 (0.7%)	1.50	3/203 (1.5%)
6	BL	0.22	0/107	0.57	0/148
6	BM	0.13	0/145	0.29	0/203
6	BN	0.15	0/107	0.41	0/148
6	BO	0.26	0/137	0.66	0/191
6	BP	0.17	0/107	0.30	0/148
6	BQ	0.26	0/145	0.44	0/203
6	BR	0.23	0/1289	0.44	1/1741 (0.1%)
6	BS	0.23	0/1289	0.44	1/1741 (0.1%)
6	BT	0.22	0/1289	0.44	1/1741 (0.1%)
6	BU	0.23	0/1289	0.44	1/1741 (0.1%)
6	BV	0.23	0/1289	0.44	1/1741 (0.1%)
6	BW	0.22	0/1289	0.44	1/1741 (0.1%)
6	BX	0.23	0/1289	0.44	1/1741 (0.1%)
6	UI	1.25	19/1191 (1.6%)	1.29	18/1618 (1.1%)
6	UJ	1.27	20/1191 (1.7%)	1.29	19/1618 (1.2%)
6	UK	1.25	19/1191 (1.6%)	1.29	19/1618 (1.2%)
6	UL	1.24	18/1191 (1.5%)	1.30	19/1618 (1.2%)
6	UM	1.27	20/1191 (1.7%)	1.29	19/1618 (1.2%)
6	UN	1.26	20/1191 (1.7%)	1.28	18/1618 (1.1%)
6	UO	1.25	19/1191 (1.6%)	1.28	19/1618 (1.2%)
6	UP	1.27	20/1191 (1.7%)	1.28	19/1618 (1.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
6	WA	0.89	0/863	1.20	2/1172 (0.2%)
6	WB	0.91	0/850	1.21	1/1154 (0.1%)
6	WC	0.89	0/825	1.15	0/1121
6	WD	0.91	0/841	1.16	0/1142
6	WE	0.88	0/857	1.17	1/1164 (0.1%)
6	WF	0.89	0/848	1.17	0/1152
6	WG	0.89	0/857	1.16	0/1164
6	WH	0.90	0/714	1.14	1/973 (0.1%)
6	WI	0.88	0/714	1.20	2/973 (0.2%)
6	WJ	0.90	0/749	1.19	1/1020 (0.1%)
6	WK	0.90	0/741	1.16	0/1009
6	WL	0.89	0/631	1.15	1/860 (0.1%)
6	WM	0.88	0/604	1.14	1/824 (0.1%)
6	WN	0.89	0/619	1.16	1/844 (0.1%)
6	WO	0.89	0/726	1.19	3/989 (0.3%)
6	WP	0.89	0/753	1.16	0/1025
6	WQ	0.90	0/848	1.19	0/1152
6	WR	0.89	0/848	1.14	0/1152
6	WS	0.91	0/848	1.19	1/1152 (0.1%)
6	WT	0.89	0/848	1.18	0/1152
6	WU	0.89	0/857	1.16	1/1164 (0.1%)
6	WV	0.91	0/841	1.17	0/1142
6	WW	0.91	0/848	1.19	1/1152 (0.1%)
7	Ab	0.27	0/681	0.49	0/930
7	Aq	0.16	0/681	0.42	0/930
7	Ar	0.23	0/681	0.45	0/930
7	As	0.26	0/681	0.55	0/930
8	At	0.45	3/1994 (0.2%)	0.61	3/2724 (0.1%)
9	Au	0.33	0/1643	0.61	4/2237 (0.2%)
9	Av	0.26	0/1665	0.46	2/2267 (0.1%)
9	Aw	0.22	0/1652	0.42	0/2249
9	Ax	0.22	0/1652	0.41	0/2249
9	Ay	0.30	0/1662	0.53	1/2263 (0.0%)
10	A1	0.42	0/675	0.64	0/905
10	A2	0.42	0/689	0.71	0/925
10	A3	0.42	0/689	0.64	0/925
10	A4	0.42	0/689	0.66	0/925
10	A5	0.43	0/682	0.67	0/915
10	Az	0.52	0/428	0.84	0/572
11	A0	0.40	0/959	0.53	0/1293
11	A6	0.44	0/1042	0.59	0/1408
11	A7	0.36	0/951	0.47	0/1282
11	A8	0.40	0/976	0.59	0/1316

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
11	A9	0.39	0/991	0.64	3/1335 (0.2%)
12	BA	0.16	0/981	0.31	0/1334
12	BB	0.14	0/976	0.32	0/1327
12	BC	0.53	2/981 (0.2%)	0.98	3/1334 (0.2%)
12	BD	0.16	0/981	0.37	0/1334
12	BE	0.15	0/981	0.36	0/1334
12	BF	0.19	0/981	0.36	0/1334
All	All	0.37	168/343262 (0.0%)	0.55	261/466341 (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
2	a	0	1
2	b	0	1
2	c	0	1
2	d	0	1
2	e	0	1
2	f	0	1
2	g	0	1
2	h	0	1
2	i	0	1
2	j	0	1
2	k	0	1
2	l	0	1
2	m	0	1
2	n	0	1
2	o	0	1
2	p	0	1
2	q	0	1
2	r	0	1
2	s	0	1
2	t	0	1
2	u	0	1
2	v	0	1
2	w	0	1
2	x	0	1
2	y	0	1
2	z	0	1
3	0	0	2

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
3	1	0	1
3	5	0	1
3	6	0	1
3	8	0	1
3	AF	0	1
3	AI	0	1
3	AM	0	2
3	AN	0	1
3	ZA	0	1
4	ZG	0	1
4	ZI	0	1
4	ZK	0	1
4	ZO	0	1
4	ZW	0	1
4	Zb	0	1
4	Zd	0	1
4	Ze	0	1
5	AA	0	2
5	AB	0	1
5	AC	0	1
5	AE	0	1
6	UI	0	2
6	UJ	0	2
6	UK	0	3
6	UL	0	3
6	UM	0	2
6	UN	0	2
6	UO	0	2
6	UP	0	3
6	WA	0	3
6	WB	0	4
6	WC	0	3
6	WD	0	1
6	WE	0	2
6	WF	0	3
6	WG	0	3
6	WI	0	1
6	WJ	0	3
6	WK	0	2
6	WL	0	2
6	WM	0	1
6	WN	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
6	WO	0	1
6	WP	0	3
6	WQ	0	2
6	WR	0	3
6	WS	0	1
6	WT	0	2
6	WU	0	2
6	WV	0	3
6	WW	0	2
9	Aw	0	1
11	A0	0	1
11	A6	0	1
12	BD	0	1
12	BF	0	1
All	All	0	123

All (168) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	ZV	140	PRO	CG-CD	-15.65	0.97	1.50
6	BK	331	PRO	CG-CD	-13.83	1.03	1.50
6	UP	125	GLN	C-N	13.61	1.51	1.33
6	UJ	125	GLN	C-N	13.57	1.51	1.33
6	UO	125	GLN	C-N	13.55	1.51	1.33
6	UI	125	GLN	C-N	13.53	1.51	1.33
6	UL	125	GLN	C-N	13.53	1.51	1.33
6	UK	125	GLN	C-N	13.51	1.51	1.33
6	UM	125	GLN	C-N	13.51	1.51	1.33
6	UN	125	GLN	C-N	13.41	1.51	1.33
4	ZV	125	PRO	CG-CD	-12.79	1.17	1.51
12	BC	73	PRO	CG-CD	-12.40	1.08	1.50
8	At	185	MET	C-O	9.84	1.35	1.24
6	UM	172	PRO	N-CD	-9.48	1.34	1.47
6	UL	172	PRO	N-CD	-9.47	1.34	1.47
6	UP	172	PRO	N-CD	-9.45	1.34	1.47
6	UJ	172	PRO	N-CD	-9.39	1.34	1.47
6	UN	172	PRO	N-CD	-9.39	1.34	1.47
6	UO	172	PRO	N-CD	-9.38	1.34	1.47
6	UK	172	PRO	N-CD	-9.38	1.34	1.47
6	UI	172	PRO	N-CD	-9.36	1.34	1.47
4	ZV	140	PRO	N-CD	8.38	1.59	1.47
12	BC	73	PRO	CB-CG	-7.57	1.11	1.49

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	UM	93	VAL	C-N	-7.35	1.24	1.33
6	UL	93	VAL	C-N	-7.34	1.24	1.33
6	UP	93	VAL	C-N	-7.34	1.24	1.33
6	UN	93	VAL	C-N	-7.29	1.24	1.33
6	UJ	93	VAL	C-N	-7.25	1.24	1.33
6	UK	93	VAL	C-N	-7.22	1.24	1.33
6	UO	93	VAL	C-N	-7.20	1.24	1.33
6	UI	93	VAL	C-N	-7.19	1.24	1.33
4	ZY	125	PRO	CG-CD	-7.03	1.32	1.51
6	UP	172	PRO	C-N	-7.00	1.23	1.33
6	UI	172	PRO	C-N	-6.97	1.23	1.33
6	UK	172	PRO	C-N	-6.95	1.23	1.33
6	UM	172	PRO	C-N	-6.93	1.23	1.33
6	UL	172	PRO	C-N	-6.92	1.23	1.33
6	UO	172	PRO	C-N	-6.92	1.23	1.33
6	UN	172	PRO	C-N	-6.90	1.23	1.33
6	UJ	172	PRO	C-N	-6.87	1.23	1.33
6	UP	141	ALA	C-N	-6.84	1.25	1.33
6	UI	141	ALA	C-N	-6.83	1.25	1.33
6	UJ	138	GLY	C-N	-6.83	1.25	1.33
6	UO	138	GLY	C-N	-6.79	1.25	1.33
6	UO	141	ALA	C-N	-6.78	1.25	1.33
6	UN	138	GLY	C-N	-6.77	1.25	1.33
6	UI	138	GLY	C-N	-6.76	1.25	1.33
6	UL	141	ALA	C-N	-6.74	1.25	1.33
6	UM	138	GLY	C-N	-6.73	1.25	1.33
6	UM	141	ALA	C-N	-6.73	1.25	1.33
6	UN	141	ALA	C-N	-6.72	1.25	1.33
6	UK	138	GLY	C-N	-6.69	1.25	1.33
6	UP	138	GLY	C-N	-6.67	1.25	1.33
6	UJ	141	ALA	C-N	-6.66	1.25	1.33
6	UL	138	GLY	C-N	-6.66	1.25	1.33
4	ZV	125	PRO	N-CD	6.61	1.57	1.47
6	UK	141	ALA	C-N	-6.60	1.25	1.33
4	ZR	125	PRO	CG-CD	-6.58	1.33	1.51
8	At	182	ASN	C-O	6.54	1.32	1.24
6	UP	92	LYS	C-N	-6.54	1.25	1.33
6	UJ	92	LYS	C-N	-6.41	1.25	1.33
6	UM	92	LYS	C-N	-6.41	1.25	1.33
6	UO	92	LYS	C-N	-6.41	1.25	1.33
6	UI	92	LYS	C-N	-6.41	1.25	1.33
6	UK	92	LYS	C-N	-6.40	1.25	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	UN	92	LYS	C-N	-6.37	1.25	1.33
6	UL	92	LYS	C-N	-6.34	1.25	1.33
6	UL	195	VAL	C-N	-6.19	1.25	1.33
6	UL	201	ALA	C-N	-6.18	1.25	1.33
6	UP	195	VAL	C-N	-6.18	1.25	1.33
6	UK	195	VAL	C-N	-6.16	1.25	1.33
6	UM	201	ALA	C-N	-6.15	1.25	1.33
6	UJ	195	VAL	C-N	-6.15	1.25	1.33
6	UM	105	LEU	C-N	-6.15	1.24	1.34
6	UO	195	VAL	C-N	-6.12	1.25	1.33
6	UI	201	ALA	C-N	-6.11	1.25	1.33
6	UN	201	ALA	C-N	-6.11	1.25	1.33
6	UJ	182	PRO	C-N	-6.09	1.24	1.33
6	UM	195	VAL	C-N	-6.08	1.25	1.33
6	UP	201	ALA	C-N	-6.07	1.25	1.33
6	UI	195	VAL	C-N	-6.07	1.25	1.33
6	UK	201	ALA	C-N	-6.06	1.25	1.33
6	UO	201	ALA	C-N	-6.05	1.25	1.33
6	UJ	105	LEU	C-N	-6.04	1.24	1.34
6	UO	105	LEU	C-N	-6.04	1.24	1.34
6	UP	105	LEU	C-N	-6.04	1.24	1.34
6	UJ	250	ALA	C-N	-6.01	1.25	1.33
6	UN	182	PRO	C-N	-6.00	1.24	1.33
6	UI	182	PRO	C-N	-6.00	1.24	1.33
6	UN	195	VAL	C-N	-6.00	1.25	1.33
6	UN	105	LEU	C-N	-6.00	1.25	1.34
6	UK	105	LEU	C-N	-6.00	1.25	1.34
6	UL	182	PRO	C-N	-5.98	1.24	1.33
6	UM	182	PRO	C-N	-5.98	1.24	1.33
6	UI	105	LEU	C-N	-5.97	1.25	1.34
6	UL	105	LEU	C-N	-5.97	1.25	1.34
6	UK	182	PRO	C-N	-5.96	1.24	1.33
6	UK	199	SER	C-N	-5.93	1.25	1.33
6	UO	182	PRO	C-N	-5.91	1.25	1.33
6	UP	62	ASP	C-N	-5.91	1.26	1.33
6	UJ	248	SER	C-N	-5.90	1.25	1.33
6	UP	182	PRO	C-N	-5.89	1.25	1.33
6	UL	199	SER	C-N	-5.87	1.25	1.33
6	UM	199	SER	C-N	-5.86	1.25	1.33
6	UK	97	ARG	C-N	-5.85	1.26	1.33
6	UP	199	SER	C-N	-5.84	1.25	1.33
6	UN	199	SER	C-N	-5.83	1.25	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	UI	199	SER	C-N	-5.83	1.25	1.33
6	UP	97	ARG	C-N	-5.80	1.26	1.33
6	UI	97	ARG	C-N	-5.80	1.26	1.33
6	UM	97	ARG	C-N	-5.80	1.26	1.33
6	UJ	142	ARG	C-N	-5.78	1.26	1.33
6	UO	199	SER	C-N	-5.78	1.25	1.33
4	ZG	4	SER	CA-CB	-5.74	1.46	1.54
6	UJ	62	ASP	C-N	-5.74	1.26	1.33
6	UN	97	ARG	C-N	-5.74	1.26	1.33
6	UM	142	ARG	C-N	-5.73	1.26	1.33
6	UL	97	ARG	C-N	-5.72	1.26	1.33
6	UN	62	ASP	C-N	-5.72	1.26	1.33
6	UM	62	ASP	C-N	-5.71	1.26	1.33
6	UK	142	ARG	C-N	-5.71	1.26	1.33
6	UL	142	ARG	C-N	-5.71	1.26	1.33
6	UN	185	ALA	C-N	-5.70	1.25	1.33
6	UP	142	ARG	C-N	-5.70	1.26	1.33
6	UJ	97	ARG	C-N	-5.69	1.26	1.33
6	UI	142	ARG	C-N	-5.67	1.26	1.33
6	UL	131	ASN	C-N	-5.66	1.26	1.33
6	UO	185	ALA	C-N	-5.66	1.25	1.33
6	UO	142	ARG	C-N	-5.61	1.26	1.33
6	UI	185	ALA	C-N	-5.59	1.25	1.33
6	UN	131	ASN	C-N	-5.59	1.26	1.33
6	UP	185	ALA	C-N	-5.59	1.25	1.33
6	UN	142	ARG	C-N	-5.59	1.26	1.33
6	UJ	257	GLY	C-N	-5.59	1.26	1.33
6	UO	97	ARG	C-N	-5.59	1.26	1.33
6	UK	215	GLN	C-N	-5.58	1.25	1.33
6	UO	131	ASN	C-N	-5.58	1.26	1.33
6	UI	131	ASN	C-N	-5.58	1.26	1.33
6	UN	215	GLN	C-N	-5.58	1.25	1.33
6	UK	131	ASN	C-N	-5.57	1.26	1.33
6	UK	208	GLY	C-N	-5.56	1.26	1.33
6	UM	131	ASN	C-N	-5.56	1.26	1.33
6	UO	215	GLN	C-N	-5.56	1.25	1.33
6	UJ	131	ASN	C-N	-5.56	1.26	1.33
6	UP	131	ASN	C-N	-5.54	1.26	1.33
6	UI	208	GLY	C-N	-5.54	1.26	1.33
6	UL	185	ALA	C-N	-5.54	1.25	1.33
6	UM	185	ALA	C-N	-5.54	1.25	1.33
6	UK	70	LEU	C-N	-5.53	1.26	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	UJ	264	GLN	C-N	-5.53	1.25	1.33
6	UK	185	ALA	C-N	-5.53	1.25	1.33
6	UM	215	GLN	C-N	-5.53	1.25	1.33
6	UM	208	GLY	C-N	-5.52	1.26	1.33
6	UP	215	GLN	C-N	-5.52	1.25	1.33
6	UI	215	GLN	C-N	-5.52	1.25	1.33
8	At	184	LEU	C-O	-5.52	1.17	1.24
6	UJ	185	ALA	C-N	-5.50	1.25	1.33
6	UP	208	GLY	C-N	-5.49	1.26	1.33
6	UL	208	GLY	C-N	-5.47	1.26	1.33
6	UO	70	LEU	C-N	-5.47	1.26	1.33
6	UN	208	GLY	C-N	-5.46	1.26	1.33
6	UP	70	LEU	C-N	-5.43	1.26	1.33
6	UO	208	GLY	C-N	-5.43	1.26	1.33
6	UN	70	LEU	C-N	-5.43	1.26	1.33
6	UM	70	LEU	C-N	-5.40	1.26	1.33
6	UI	70	LEU	C-N	-5.39	1.26	1.33
6	UL	70	LEU	C-N	-5.38	1.26	1.33
6	UJ	70	LEU	C-N	-5.38	1.26	1.33

All (261) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	BC	73	PRO	CB-CG-CD	23.06	179.88	106.10
12	BC	73	PRO	N-CD-CG	-18.82	74.97	103.20
4	ZV	140	PRO	N-CD-CG	-17.33	77.21	103.20
6	BK	331	PRO	N-CD-CG	-16.14	78.99	103.20
4	ZV	125	PRO	N-CD-CG	-14.54	86.36	103.80
12	BC	73	PRO	CA-CB-CG	-14.28	77.37	104.50
4	ZR	125	PRO	CA-N-CD	-13.95	91.97	111.50
6	UO	126	PHE	O-C-N	13.91	136.86	122.12
6	UJ	126	PHE	O-C-N	13.87	136.82	122.12
6	UL	126	PHE	O-C-N	13.86	136.81	122.12
6	UK	126	PHE	O-C-N	13.83	136.78	122.12
6	UN	126	PHE	O-C-N	13.81	136.76	122.12
6	UP	126	PHE	O-C-N	13.80	136.75	122.12
6	UM	126	PHE	O-C-N	13.78	136.73	122.12
6	UI	126	PHE	O-C-N	13.77	136.72	122.12
4	ZY	125	PRO	CA-N-CD	-13.36	92.80	111.50
4	ZV	125	PRO	CA-N-CD	-13.25	92.95	111.50
9	Au	162	PRO	CA-N-CD	-12.39	94.65	112.00
4	Zc	125	PRO	CA-N-CD	-11.23	95.77	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	ZV	140	PRO	CA-N-CD	-10.62	97.13	112.00
6	UP	129	GLN	O-C-N	10.54	132.92	122.07
6	UK	129	GLN	O-C-N	10.52	132.91	122.07
6	UO	129	GLN	O-C-N	10.42	132.80	122.07
6	UM	129	GLN	O-C-N	10.41	132.79	122.07
6	UJ	129	GLN	O-C-N	10.38	132.76	122.07
6	UL	129	GLN	O-C-N	10.36	132.74	122.07
6	UI	129	GLN	O-C-N	10.35	132.73	122.07
6	UN	129	GLN	O-C-N	10.33	132.71	122.07
4	ZR	125	PRO	N-CD-CG	-9.96	91.84	103.80
4	ZY	125	PRO	N-CD-CG	-9.81	92.02	103.80
4	ZV	140	PRO	CA-CB-CG	-9.56	86.34	104.50
6	BK	331	PRO	CA-CB-CG	-9.26	86.90	104.50
6	UO	126	PHE	CA-C-N	-9.13	107.32	120.29
6	UO	126	PHE	C-N-CA	-9.13	107.32	120.29
6	UJ	126	PHE	CA-C-N	-9.10	107.36	120.29
6	UJ	126	PHE	C-N-CA	-9.10	107.36	120.29
6	UL	126	PHE	CA-C-N	-9.10	107.36	120.29
6	UL	126	PHE	C-N-CA	-9.10	107.36	120.29
6	UP	126	PHE	CA-C-N	-9.10	107.36	120.29
6	UP	126	PHE	C-N-CA	-9.10	107.36	120.29
6	UM	126	PHE	CA-C-N	-9.10	107.37	120.29
6	UM	126	PHE	C-N-CA	-9.10	107.37	120.29
6	UN	126	PHE	CA-C-N	-9.09	107.39	120.29
6	UN	126	PHE	C-N-CA	-9.09	107.39	120.29
6	UK	126	PHE	CA-C-N	-9.08	107.39	120.29
6	UK	126	PHE	C-N-CA	-9.08	107.39	120.29
6	UI	126	PHE	CA-C-N	-9.05	107.43	120.29
6	UI	126	PHE	C-N-CA	-9.05	107.43	120.29
3	AH	2	ILE	N-CA-C	-8.96	103.66	112.17
4	ZM	223	PRO	CA-N-CD	-8.79	99.69	112.00
6	UL	130	VAL	O-C-N	8.70	130.31	121.87
6	UK	130	VAL	O-C-N	8.66	130.27	121.87
6	UJ	130	VAL	O-C-N	8.64	130.25	121.87
6	UI	130	VAL	O-C-N	8.62	130.23	121.87
6	UN	130	VAL	O-C-N	8.60	130.21	121.87
6	UM	130	VAL	O-C-N	8.57	130.18	121.87
6	UP	130	VAL	O-C-N	8.56	130.17	121.87
6	UO	130	VAL	O-C-N	8.55	130.16	121.87
4	Zc	125	PRO	N-CD-CG	-7.86	94.37	103.80
6	WA	162	PRO	N-CA-C	7.76	128.46	112.47
9	Ay	84	PRO	N-CA-C	-7.74	101.25	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	BK	331	PRO	N-CA-CB	-7.40	94.86	103.00
11	A9	72	HIS	CA-C-N	-7.39	116.24	123.04
11	A9	72	HIS	C-N-CA	-7.39	116.24	123.04
4	ZG	235	ASN	N-CA-C	-7.33	104.85	114.31
11	A9	72	HIS	CA-CB-CG	-7.26	106.54	113.80
6	UO	129	GLN	CA-C-N	-6.73	111.24	120.46
6	UO	129	GLN	C-N-CA	-6.73	111.24	120.46
6	UP	129	GLN	CA-C-N	-6.72	111.25	120.46
6	UP	129	GLN	C-N-CA	-6.72	111.25	120.46
6	UJ	129	GLN	CA-C-N	-6.69	111.29	120.46
6	UJ	129	GLN	C-N-CA	-6.69	111.29	120.46
6	UI	129	GLN	CA-C-N	-6.69	111.30	120.46
6	UI	129	GLN	C-N-CA	-6.69	111.30	120.46
6	UK	129	GLN	CA-C-N	-6.69	111.30	120.46
6	UK	129	GLN	C-N-CA	-6.69	111.30	120.46
6	UN	129	GLN	CA-C-N	-6.67	111.32	120.46
6	UN	129	GLN	C-N-CA	-6.67	111.32	120.46
6	UL	129	GLN	CA-C-N	-6.65	111.35	120.46
6	UL	129	GLN	C-N-CA	-6.65	111.35	120.46
6	UM	129	GLN	CA-C-N	-6.64	111.36	120.46
6	UM	129	GLN	C-N-CA	-6.64	111.36	120.46
6	WA	162	PRO	CB-CA-C	-6.62	100.64	111.56
9	Au	162	PRO	N-CD-CG	-6.54	93.40	103.20
6	UJ	181	GLU	O-C-N	6.44	127.94	121.30
6	UI	181	GLU	O-C-N	6.38	127.88	121.30
6	UN	181	GLU	O-C-N	6.38	127.87	121.30
6	UK	181	GLU	O-C-N	6.36	127.85	121.30
6	UL	131	ASN	O-C-N	6.34	129.38	122.15
6	UP	131	ASN	O-C-N	6.32	129.35	122.15
6	UN	131	ASN	O-C-N	6.32	129.35	122.15
6	UK	131	ASN	O-C-N	6.31	129.34	122.15
6	UL	221	THR	O-C-N	-6.31	115.66	123.04
6	UJ	131	ASN	O-C-N	6.30	129.33	122.15
6	UL	181	GLU	O-C-N	6.29	127.78	121.30
6	UP	181	GLU	O-C-N	6.29	127.77	121.30
6	UK	221	THR	O-C-N	-6.26	115.71	123.04
6	UM	181	GLU	O-C-N	6.26	127.75	121.30
6	UO	181	GLU	O-C-N	6.25	127.74	121.30
6	UO	131	ASN	O-C-N	6.25	129.27	122.15
4	Zb	397	ASN	N-CA-C	-6.24	104.39	111.07
6	UN	221	THR	O-C-N	-6.23	115.75	123.04
6	UM	131	ASN	O-C-N	6.23	129.25	122.15

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	UI	221	THR	O-C-N	-6.22	115.76	123.04
6	UJ	270	THR	O-C-N	-6.21	115.78	123.04
6	UI	131	ASN	O-C-N	6.21	129.22	122.15
6	UL	127	SER	O-C-N	6.20	129.22	122.15
6	UM	221	THR	O-C-N	-6.19	115.80	123.04
6	UN	127	SER	O-C-N	6.17	129.19	122.15
9	Av	162	PRO	N-CA-CB	-6.17	96.78	103.25
6	UJ	127	SER	O-C-N	6.16	129.17	122.15
6	UP	221	THR	O-C-N	-6.15	115.85	123.04
6	UO	221	THR	O-C-N	-6.14	115.86	123.04
8	At	185	MET	CA-C-N	-6.13	112.26	120.54
8	At	185	MET	C-N-CA	-6.13	112.26	120.54
6	UK	127	SER	O-C-N	6.09	129.10	122.15
6	UO	127	SER	O-C-N	6.08	129.09	122.15
6	UM	127	SER	O-C-N	6.08	129.09	122.15
3	0	52	PRO	N-CA-CB	-6.07	96.32	103.00
6	UI	127	SER	O-C-N	6.05	129.05	122.15
6	UP	127	SER	O-C-N	5.95	128.94	122.15
8	At	189	PRO	CA-N-CD	-5.86	103.80	112.00
6	UP	132	TYR	O-C-N	5.79	128.04	122.07
3	AH	5	LEU	N-CA-C	-5.77	106.08	113.23
4	ZI	322	ASN	CB-CA-C	-5.74	103.04	111.77
3	9	135	GLN	CA-C-N	5.74	128.82	122.22
3	9	135	GLN	C-N-CA	5.74	128.82	122.22
6	UL	132	TYR	O-C-N	5.73	127.97	122.07
6	UI	132	TYR	O-C-N	5.73	127.97	122.07
6	UN	132	TYR	O-C-N	5.72	127.96	122.07
6	UK	132	TYR	O-C-N	5.71	127.95	122.07
6	UJ	132	TYR	O-C-N	5.70	127.94	122.07
6	UO	132	TYR	O-C-N	5.68	127.92	122.07
6	UM	132	TYR	O-C-N	5.67	127.91	122.07
4	ZV	125	PRO	CA-CB-CG	-5.66	93.25	104.00
4	ZF	134	PRO	N-CA-CB	-5.65	98.28	103.25
3	AH	4	SER	N-CA-C	-5.63	107.40	114.56
4	ZG	4	SER	N-CA-C	-5.63	107.05	114.31
6	WB	221	THR	CB-CA-C	-5.59	109.02	117.07
9	Av	120	LYS	N-CA-C	-5.58	104.29	113.50
4	ZP	125	PRO	CA-N-CD	-5.58	103.69	111.50
4	ZH	397	ASN	N-CA-C	-5.57	105.11	111.07
6	WI	167	ARG	CB-CA-C	-5.57	109.65	117.23
4	Zc	125	PRO	CB-CG-CD	-5.57	92.59	105.40
6	WJ	214	ASP	CB-CA-C	-5.53	99.99	113.15

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	UL	125	GLN	CA-C-N	-5.51	112.83	120.38
6	UL	125	GLN	C-N-CA	-5.51	112.83	120.38
4	ZV	140	PRO	N-CA-CB	-5.48	98.44	103.31
6	UO	125	GLN	CA-C-N	-5.47	112.88	120.38
6	UO	125	GLN	C-N-CA	-5.47	112.88	120.38
3	AK	4	SER	N-CA-C	-5.47	106.38	113.16
6	UI	125	GLN	CA-C-N	-5.46	112.90	120.38
6	UI	125	GLN	C-N-CA	-5.46	112.90	120.38
6	UP	125	GLN	CA-C-N	-5.46	112.91	120.38
6	UP	125	GLN	C-N-CA	-5.46	112.91	120.38
6	UN	125	GLN	CA-C-N	-5.45	112.91	120.38
6	UN	125	GLN	C-N-CA	-5.45	112.91	120.38
6	UJ	125	GLN	CA-C-N	-5.45	112.92	120.38
6	UJ	125	GLN	C-N-CA	-5.45	112.92	120.38
6	UK	125	GLN	CA-C-N	-5.45	112.92	120.38
6	UK	125	GLN	C-N-CA	-5.45	112.92	120.38
6	UM	125	GLN	CA-C-N	-5.45	112.92	120.38
6	UM	125	GLN	C-N-CA	-5.45	112.92	120.38
6	AP	261	ASN	N-CA-C	-5.42	106.52	113.02
6	WM	220	LEU	N-CA-C	-5.42	106.64	113.20
6	Ak	261	ASN	N-CA-C	-5.41	106.53	113.02
6	Am	261	ASN	N-CA-C	-5.41	106.53	113.02
6	Ao	261	ASN	N-CA-C	-5.40	106.54	113.02
6	BX	261	ASN	N-CA-C	-5.40	106.54	113.02
4	ZG	47	LYS	N-CA-C	-5.39	106.62	114.12
6	AV	261	ASN	N-CA-C	-5.39	106.55	113.02
6	WW	220	LEU	N-CA-C	-5.39	106.68	113.20
6	Aj	261	ASN	N-CA-C	-5.39	106.55	113.02
6	Ad	261	ASN	N-CA-C	-5.38	106.57	113.02
6	AO	261	ASN	N-CA-C	-5.38	106.57	113.02
6	Ah	261	ASN	N-CA-C	-5.37	106.57	113.02
6	BV	261	ASN	N-CA-C	-5.37	106.57	113.02
9	Au	126	ALA	CA-C-N	-5.37	113.02	120.38
9	Au	126	ALA	C-N-CA	-5.37	113.02	120.38
6	WH	220	LEU	N-CA-C	-5.37	106.70	113.20
4	ZF	394	GLN	N-CA-C	-5.37	105.83	112.38
6	AQ	261	ASN	N-CA-C	-5.37	106.58	113.02
6	AR	261	ASN	N-CA-C	-5.37	106.58	113.02
6	AX	261	ASN	N-CA-C	-5.36	106.59	113.02
6	BS	261	ASN	N-CA-C	-5.36	106.59	113.02
6	BW	261	ASN	N-CA-C	-5.36	106.59	113.02
6	AS	261	ASN	N-CA-C	-5.36	106.59	113.02

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	An	261	ASN	N-CA-C	-5.36	106.59	113.02
6	WO	220	LEU	N-CA-C	-5.35	106.72	113.20
6	AZ	261	ASN	N-CA-C	-5.35	106.60	113.02
6	Ai	261	ASN	N-CA-C	-5.35	106.60	113.02
6	BT	261	ASN	N-CA-C	-5.35	106.60	113.02
6	AY	261	ASN	N-CA-C	-5.34	106.61	113.02
6	Ae	261	ASN	N-CA-C	-5.34	106.61	113.02
6	Al	261	ASN	N-CA-C	-5.34	106.61	113.02
6	Ap	261	ASN	N-CA-C	-5.34	106.61	113.02
6	BU	261	ASN	N-CA-C	-5.34	106.62	113.02
6	AW	261	ASN	N-CA-C	-5.33	106.62	113.02
4	ZO	141	ASN	N-CA-C	-5.33	106.77	113.28
6	AT	261	ASN	N-CA-C	-5.33	106.62	113.02
6	Aa	261	ASN	N-CA-C	-5.33	106.62	113.02
6	WL	220	LEU	N-CA-C	-5.33	106.75	113.20
6	WS	220	LEU	N-CA-C	-5.33	106.75	113.20
6	AU	261	ASN	N-CA-C	-5.33	106.62	113.02
6	Ag	261	ASN	N-CA-C	-5.33	106.63	113.02
6	UK	130	VAL	CA-C-N	-5.33	112.73	120.29
6	UK	130	VAL	C-N-CA	-5.33	112.73	120.29
6	Ac	261	ASN	N-CA-C	-5.32	106.63	113.02
6	Af	261	ASN	N-CA-C	-5.31	106.64	113.02
6	BR	261	ASN	N-CA-C	-5.31	106.65	113.02
6	UL	130	VAL	CA-C-N	-5.31	112.75	120.29
6	UL	130	VAL	C-N-CA	-5.31	112.75	120.29
6	WE	160	PRO	N-CA-CB	-5.29	97.69	103.25
6	UI	130	VAL	CA-C-N	-5.28	112.79	120.29
6	UI	130	VAL	C-N-CA	-5.28	112.79	120.29
6	UN	130	VAL	CA-C-N	-5.28	112.80	120.29
6	UN	130	VAL	C-N-CA	-5.28	112.80	120.29
6	UP	130	VAL	CA-C-N	-5.27	112.80	120.29
6	UP	130	VAL	C-N-CA	-5.27	112.80	120.29
6	UO	130	VAL	CA-C-N	-5.26	112.81	120.29
6	UO	130	VAL	C-N-CA	-5.26	112.81	120.29
6	UJ	130	VAL	CA-C-N	-5.26	112.82	120.29
6	UJ	130	VAL	C-N-CA	-5.26	112.82	120.29
6	UM	130	VAL	CA-C-N	-5.26	112.82	120.29
6	UM	130	VAL	C-N-CA	-5.26	112.82	120.29
3	AI	257	LEU	CA-C-N	-5.25	112.32	120.31
3	AI	257	LEU	C-N-CA	-5.25	112.32	120.31
6	WN	220	LEU	N-CA-C	-5.25	106.85	113.20
5	AA	153	ASN	N-CA-C	-5.23	106.67	113.16

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	WI	165	PHE	CB-CA-C	5.17	119.69	111.51
4	ZG	3	PHE	N-CA-C	-5.16	106.39	113.30
4	ZN	218	PRO	CA-N-CD	-5.15	104.79	112.00
6	UM	128	GLU	CA-C-N	-5.14	113.76	120.44
6	UM	128	GLU	C-N-CA	-5.14	113.76	120.44
6	UJ	128	GLU	CA-C-N	-5.13	113.77	120.44
6	UJ	128	GLU	C-N-CA	-5.13	113.77	120.44
5	AE	246	GLN	N-CA-C	-5.12	107.70	114.31
6	UI	128	GLU	CA-C-N	-5.12	113.78	120.44
6	UI	128	GLU	C-N-CA	-5.12	113.78	120.44
6	UP	128	GLU	CA-C-N	-5.12	113.78	120.44
6	UP	128	GLU	C-N-CA	-5.12	113.78	120.44
4	Za	126	PRO	CA-N-CD	-5.12	104.84	112.00
6	WO	168	GLU	CB-CA-C	-5.11	100.25	110.42
6	UK	128	GLU	O-C-N	5.11	127.61	122.09
6	WO	167	ARG	CA-C-O	-5.11	114.93	120.09
6	WU	164	LEU	N-CA-C	-5.10	107.01	113.18
6	UO	128	GLU	CA-C-N	-5.10	113.81	120.44
6	UO	128	GLU	C-N-CA	-5.10	113.81	120.44
6	UL	128	GLU	O-C-N	5.10	127.59	122.09
6	UL	128	GLU	CA-C-N	-5.09	113.82	120.44
6	UL	128	GLU	C-N-CA	-5.09	113.82	120.44
6	UM	128	GLU	O-C-N	5.09	127.58	122.09
6	UK	128	GLU	CA-C-N	-5.08	113.83	120.44
6	UK	128	GLU	C-N-CA	-5.08	113.83	120.44
4	Zd	323	ASN	N-CA-C	-5.05	105.96	111.82
6	UP	128	GLU	O-C-N	5.05	127.55	122.09
6	UN	128	GLU	CA-C-N	-5.03	113.90	120.44
6	UN	128	GLU	C-N-CA	-5.03	113.90	120.44
6	UJ	128	GLU	O-C-N	5.03	127.52	122.09
6	UO	128	GLU	O-C-N	5.03	127.52	122.09
3	AI	65	GLY	CA-C-O	-5.00	118.24	122.29

There are no chirality outliers.

All (123) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	0	36	ARG	Sidechain
3	0	50	ARG	Sidechain
3	1	36	ARG	Sidechain
3	5	50	ARG	Sidechain
3	6	153	ARG	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
3	8	238	ARG	Sidechain
11	A0	104	ARG	Sidechain
11	A6	106	ARG	Sidechain
5	AA	200	ARG	Sidechain
5	AA	243	ARG	Sidechain
5	AB	225	ARG	Sidechain
5	AC	243	ARG	Sidechain
5	AE	160	ARG	Sidechain
3	AF	36	ARG	Sidechain
3	AI	116	ARG	Sidechain
3	AM	36	ARG	Sidechain
3	AM	50	ARG	Sidechain
3	AN	238	ARG	Sidechain
9	Aw	143	ARG	Sidechain
12	BD	110	ARG	Sidechain
12	BF	110	ARG	Sidechain
6	UI	221	THR	Mainchain
6	UI	50	ASP	Mainchain
6	UJ	270	THR	Mainchain
6	UJ	50	ASP	Mainchain
6	UK	167	ARG	Sidechain
6	UK	221	THR	Mainchain
6	UK	50	ASP	Mainchain
6	UL	167	ARG	Sidechain
6	UL	221	THR	Mainchain
6	UL	50	ASP	Mainchain
6	UM	221	THR	Mainchain
6	UM	50	ASP	Mainchain
6	UN	221	THR	Mainchain
6	UN	50	ASP	Mainchain
6	UO	221	THR	Mainchain
6	UO	50	ASP	Mainchain
6	UP	167	ARG	Sidechain
6	UP	221	THR	Mainchain
6	UP	50	ASP	Mainchain
6	WA	134	ARG	Sidechain
6	WA	142	ARG	Sidechain
6	WA	167	ARG	Sidechain
6	WB	134	ARG	Sidechain
6	WB	142	ARG	Sidechain
6	WB	154	ARG	Sidechain
6	WB	167	ARG	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
6	WC	134	ARG	Sidechain
6	WC	142	ARG	Sidechain
6	WC	167	ARG	Sidechain
6	WD	134	ARG	Sidechain
6	WE	134	ARG	Sidechain
6	WE	142	ARG	Sidechain
6	WF	134	ARG	Sidechain
6	WF	142	ARG	Sidechain
6	WF	167	ARG	Sidechain
6	WG	134	ARG	Sidechain
6	WG	142	ARG	Sidechain
6	WG	167	ARG	Sidechain
6	WI	142	ARG	Sidechain
6	WJ	134	ARG	Sidechain
6	WJ	142	ARG	Sidechain
6	WJ	167	ARG	Sidechain
6	WK	134	ARG	Sidechain
6	WK	142	ARG	Sidechain
6	WL	134	ARG	Sidechain
6	WL	157	LEU	Mainchain
6	WM	134	ARG	Sidechain
6	WN	134	ARG	Sidechain
6	WO	134	ARG	Sidechain
6	WP	134	ARG	Sidechain
6	WP	142	ARG	Sidechain
6	WP	154	ARG	Sidechain
6	WQ	134	ARG	Sidechain
6	WQ	142	ARG	Sidechain
6	WR	134	ARG	Sidechain
6	WR	142	ARG	Sidechain
6	WR	167	ARG	Sidechain
6	WS	167	ARG	Sidechain
6	WT	134	ARG	Sidechain
6	WT	142	ARG	Sidechain
6	WU	134	ARG	Sidechain
6	WU	142	ARG	Sidechain
6	WV	134	ARG	Sidechain
6	WV	142	ARG	Sidechain
6	WV	167	ARG	Sidechain
6	WW	134	ARG	Sidechain
6	WW	167	ARG	Sidechain
3	ZA	79	ARG	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
4	ZG	71	ARG	Sidechain
4	ZI	380	ARG	Sidechain
4	ZK	71	ARG	Sidechain
4	ZO	71	ARG	Sidechain
4	ZW	71	ARG	Sidechain
4	Zb	106	ARG	Sidechain
4	Zd	380	ARG	Sidechain
4	Ze	380	ARG	Sidechain
2	a	117	ARG	Sidechain
2	b	117	ARG	Sidechain
2	c	117	ARG	Sidechain
2	d	117	ARG	Sidechain
2	e	117	ARG	Sidechain
2	f	117	ARG	Sidechain
2	g	117	ARG	Sidechain
2	h	117	ARG	Sidechain
2	i	117	ARG	Sidechain
2	j	117	ARG	Sidechain
2	k	117	ARG	Sidechain
2	l	117	ARG	Sidechain
2	m	117	ARG	Sidechain
2	n	117	ARG	Sidechain
2	o	117	ARG	Sidechain
2	p	117	ARG	Sidechain
2	q	117	ARG	Sidechain
2	r	117	ARG	Sidechain
2	s	117	ARG	Sidechain
2	t	117	ARG	Sidechain
2	u	117	ARG	Sidechain
2	v	117	ARG	Sidechain
2	w	117	ARG	Sidechain
2	x	117	ARG	Sidechain
2	y	117	ARG	Sidechain
2	z	117	ARG	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1580	0	1534	39	0
1	B	1580	0	1534	39	0
1	C	1580	0	1534	38	0
1	D	1580	0	1534	38	0
1	E	1580	0	1534	38	0
1	F	1580	0	1534	40	0
1	G	1580	0	1534	40	0
1	H	1580	0	1534	39	0
1	I	1580	0	1534	40	0
1	J	1580	0	1534	39	0
1	K	1580	0	1534	39	0
1	L	1580	0	1534	38	0
1	M	1580	0	1534	38	0
1	N	1580	0	1534	39	0
1	O	1580	0	1534	39	0
1	P	1580	0	1534	37	0
1	Q	1580	0	1534	45	0
1	R	1580	0	1534	39	0
1	S	1580	0	1534	39	0
1	T	1580	0	1534	38	0
1	U	1580	0	1534	40	0
1	V	1580	0	1534	43	0
1	W	1580	0	1534	43	0
1	X	1580	0	1534	41	0
1	Y	1580	0	1534	41	0
1	Z	1580	0	1534	40	0
2	a	2228	0	2265	107	0
2	b	2228	0	2265	109	0
2	c	2228	0	2265	110	0
2	d	2228	0	2265	117	0
2	e	2228	0	2265	125	0
2	f	2228	0	2265	113	0
2	g	2228	0	2265	118	0
2	h	2228	0	2265	113	0
2	i	2228	0	2265	115	0
2	j	2228	0	2265	116	0
2	k	2228	0	2265	119	0
2	l	2228	0	2265	111	0
2	m	2228	0	2265	108	0
2	n	2228	0	2265	110	0
2	o	2228	0	2265	115	0
2	p	2228	0	2265	108	0
2	q	2228	0	2265	107	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	r	2228	0	2265	111	0
2	s	2228	0	2265	113	0
2	t	2228	0	2265	118	0
2	u	2228	0	2265	111	0
2	v	2228	0	2265	111	0
2	w	2228	0	2265	109	0
2	x	2228	0	2265	110	0
2	y	2228	0	2265	110	0
2	z	2228	0	2265	114	0
3	0	1866	0	1848	67	0
3	1	1894	0	1878	63	0
3	2	1949	0	1926	59	0
3	3	1949	0	1926	53	0
3	4	1949	0	1926	72	0
3	5	1949	0	1926	72	0
3	6	1949	0	1926	74	0
3	7	1949	0	1926	59	0
3	8	1949	0	1926	64	0
3	9	1949	0	1926	60	0
3	AF	1903	0	1878	116	0
3	AG	1911	0	1889	117	0
3	AH	1919	0	1901	126	0
3	AI	1903	0	1878	96	0
3	AJ	1911	0	1889	120	0
3	AK	1823	0	1797	109	0
3	AL	1866	0	1848	99	0
3	AM	1866	0	1848	93	0
3	AN	1866	0	1848	74	0
3	ZA	1949	0	1926	78	0
3	ZB	1949	0	1926	85	0
3	ZC	1949	0	1926	90	0
3	ZD	1949	0	1926	101	0
3	ZE	1949	0	1926	88	0
4	ZF	2947	0	2839	82	0
4	ZG	2947	0	2839	85	0
4	ZH	2947	0	2839	94	0
4	ZI	2947	0	2839	104	0
4	ZJ	2947	0	2839	86	0
4	ZK	2947	0	2839	68	0
4	ZL	2947	0	2839	65	0
4	ZM	2947	0	2839	71	0
4	ZN	2947	0	2839	70	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	ZO	2947	0	2839	71	0
4	ZP	2947	0	2839	80	0
4	ZQ	2947	0	2839	66	0
4	ZR	2947	0	2839	71	0
4	ZS	2947	0	2839	92	0
4	ZT	2947	0	2839	69	0
4	ZU	2947	0	2839	69	0
4	ZV	2947	0	2839	72	0
4	ZW	2947	0	2839	64	0
4	ZX	2947	0	2839	61	0
4	ZY	2947	0	2839	74	0
4	ZZ	2947	0	2839	60	0
4	Za	2947	0	2839	45	0
4	Zb	2947	0	2839	63	0
4	Zc	2947	0	2839	51	0
4	Zd	2947	0	2839	53	0
4	Ze	2947	0	2839	52	0
4	Zf	2947	0	2839	47	0
4	Zg	2947	0	2839	45	0
4	Zh	2947	0	2839	39	0
5	AA	1804	0	1791	107	0
5	AB	1812	0	1800	151	0
5	AC	1820	0	1812	125	0
5	AD	1820	0	1812	112	0
5	AE	1812	0	1800	123	0
6	AO	1275	0	1254	34	0
6	AP	1275	0	1254	39	0
6	AQ	1275	0	1254	33	0
6	AR	1275	0	1254	34	0
6	AS	1275	0	1254	59	0
6	AT	1275	0	1254	39	0
6	AU	1275	0	1254	31	0
6	AV	1275	0	1254	45	0
6	AW	1275	0	1254	39	0
6	AX	1275	0	1254	50	0
6	AY	1275	0	1254	55	0
6	AZ	1275	0	1254	35	0
6	Aa	1275	0	1254	31	0
6	Ac	1275	0	1254	30	0
6	Ad	1275	0	1254	44	0
6	Ae	1275	0	1254	47	0
6	Af	1275	0	1254	47	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	Ag	1275	0	1254	46	0
6	Ah	1275	0	1254	29	0
6	Ai	1275	0	1254	33	0
6	Aj	1275	0	1254	52	0
6	Ak	1275	0	1254	48	0
6	Al	1275	0	1254	42	0
6	Am	1275	0	1254	41	0
6	An	1275	0	1254	39	0
6	Ao	1275	0	1254	39	0
6	Ap	1275	0	1254	31	0
6	BG	81	0	78	6	0
6	BH	103	0	99	1	0
6	BI	133	0	129	9	0
6	BJ	103	0	99	5	0
6	BK	140	0	136	5	0
6	BL	103	0	99	5	0
6	BM	140	0	136	2	0
6	BN	103	0	99	3	0
6	BO	133	0	129	11	0
6	BP	103	0	99	4	0
6	BQ	140	0	136	2	0
6	BR	1275	0	1254	45	0
6	BS	1275	0	1254	34	0
6	BT	1275	0	1254	28	0
6	BU	1275	0	1254	30	0
6	BV	1275	0	1254	33	0
6	BW	1275	0	1254	37	0
6	BX	1275	0	1254	51	0
6	UI	1172	0	1181	64	0
6	UJ	1172	0	1181	81	0
6	UK	1172	0	1181	75	0
6	UL	1172	0	1181	73	0
6	UM	1172	0	1181	70	0
6	UN	1172	0	1181	71	0
6	UO	1172	0	1181	64	0
6	UP	1172	0	1181	68	0
6	WA	849	0	860	83	0
6	WB	836	0	846	82	0
6	WC	812	0	826	71	0
6	WD	827	0	840	99	0
6	WE	843	0	855	90	0
6	WF	834	0	847	63	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	WG	843	0	855	72	0
6	WH	703	0	722	68	0
6	WI	703	0	722	78	0
6	WJ	737	0	755	93	0
6	WK	729	0	744	86	0
6	WL	622	0	632	61	0
6	WM	596	0	612	49	0
6	WN	611	0	623	60	0
6	WO	714	0	731	55	0
6	WP	741	0	758	75	0
6	WQ	834	0	847	73	0
6	WR	834	0	847	63	0
6	WS	834	0	847	83	0
6	WT	834	0	847	77	0
6	WU	843	0	855	68	0
6	WV	827	0	838	67	0
6	WW	834	0	847	90	0
7	Ab	670	0	739	35	0
7	Aq	670	0	739	38	0
7	Ar	670	0	739	36	0
7	As	670	0	739	42	0
8	At	1945	0	2063	125	0
9	Au	1605	0	1701	87	0
9	Av	1626	0	1718	64	0
9	Aw	1614	0	1709	57	0
9	Ax	1614	0	1709	78	0
9	Ay	1623	0	1715	92	0
10	A1	672	0	684	53	0
10	A2	686	0	700	54	0
10	A3	686	0	700	47	0
10	A4	686	0	700	53	0
10	A5	679	0	693	51	0
10	Az	429	0	445	40	0
11	A0	950	0	946	62	0
11	A6	1030	0	1025	30	0
11	A7	942	0	943	39	0
11	A8	967	0	968	63	0
11	A9	982	0	984	47	0
12	BA	969	0	981	54	0
12	BB	964	0	976	60	0
12	BC	969	0	981	35	0
12	BD	969	0	981	37	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	BE	969	0	981	46	0
12	BF	969	0	981	57	0
All	All	338677	0	335379	9364	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 14.

All (9364) 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)
3:ZD:233:MET:CE	4:ZI:388:THR:HA	1.40	1.48
6:WD:168:GLU:CD	6:WD:170:LYS:HE3	1.40	1.43
2:e:54:GLN:HE22	3:AK:137:GLN:NE2	1.15	1.40
5:AE:228:GLU:CB	3:AK:258:THR:HG21	1.48	1.40
3:ZD:233:MET:HE1	4:ZI:388:THR:CA	1.55	1.36
7:Ar:15:LYS:NZ	6:WC:121:PHE:HZ	1.21	1.35
6:UP:103:GLN:HG2	6:WW:182:PRO:CB	1.58	1.33
6:AS:365:ASN:HB3	11:A0:72:HIS:CD2	1.64	1.32
6:Aj:372:ILE:CD1	10:A1:11:ILE:HG22	1.58	1.32
6:UP:103:GLN:CG	6:WW:182:PRO:HB3	1.56	1.32
3:AF:6:TRP:NE1	12:BA:77:VAL:HG13	1.41	1.32
10:A4:7:ILE:HG21	6:BX:278:THR:CG2	1.56	1.32
6:Ag:297:GLN:HB2	11:A8:73:ILE:CD1	1.61	1.31
8:At:145:TRP:CD1	6:WJ:164:LEU:HD13	1.65	1.29
6:WD:168:GLU:CG	6:WD:170:LYS:HE3	1.64	1.28
9:Au:160:GLN:HB3	6:WP:166:VAL:CG2	1.63	1.28
2:e:80:GLN:OE1	3:AK:203:GLU:HB2	1.23	1.27
3:ZE:122:VAL:O	4:ZJ:322:ASN:HB2	1.33	1.26
3:ZB:240:TYR:CD2	4:ZG:395:ILE:CG2	2.18	1.25
6:Al:365:ASN:HB3	11:A7:72:HIS:ND1	1.47	1.25
10:A4:7:ILE:CG2	6:BX:278:THR:HG21	1.65	1.25
3:4:56:SER:O	5:AC:138:ALA:HB1	1.32	1.25
6:WF:197:LEU:HD12	6:WG:175:SER:OG	1.34	1.23
6:Ak:370:ARG:NH2	10:A1:7:ILE:HD11	1.54	1.23
2:t:80:GLN:OE1	3:AH:170:VAL:HG23	1.10	1.23
6:WQ:197:LEU:HD12	6:WR:175:SER:OG	1.38	1.23
5:AD:221:ILE:HD13	3:AJ:251:ASP:OD2	1.37	1.22
3:ZB:235:GLN:NE2	4:ZH:3:PHE:CD2	2.06	1.22
6:WR:197:LEU:HD12	6:WS:175:SER:OG	1.36	1.22
6:Ao:278:THR:CG2	10:Az:7:ILE:HG21	1.69	1.22
6:WA:128:GLU:HG2	6:WB:126:PHE:CD2	1.74	1.22

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:y:53:THR:CG2	3:AG:145:ASN:HD21	1.54	1.21
3:ZA:20:ASP:OD1	4:ZF:2:SER:HB2	1.38	1.21
6:Aj:372:ILE:HG21	10:A1:11:ILE:CG2	1.68	1.21
6:WA:128:GLU:CG	6:WB:126:PHE:CD2	2.24	1.21
9:Ax:142:THR:O	6:WD:165:PHE:HB2	1.35	1.21
1:Q:107:ASP:OD1	4:ZF:133:ASN:HB2	1.41	1.21
3:6:57:SER:HA	5:AE:140:ASP:OD2	1.38	1.21
5:AA:202:MET:CG	3:AL:45:LEU:HD11	1.69	1.21
8:At:156:THR:HG22	6:WK:167:ARG:HG2	1.22	1.21
10:A5:7:ILE:CG2	6:BR:278:THR:HG21	1.70	1.20
2:k:53:THR:HG21	3:AJ:125:ASN:CB	1.72	1.20
3:2:58:GLU:HG3	5:AA:140:ASP:OD2	1.40	1.20
3:2:56:SER:O	5:AA:138:ALA:HB1	1.03	1.19
3:AG:6:TRP:CE2	12:BB:77:VAL:CG1	2.23	1.19
3:ZD:233:MET:HE2	4:ZI:388:THR:HA	1.21	1.19
3:AF:6:TRP:CD1	12:BA:77:VAL:HG13	1.77	1.19
6:WA:128:GLU:CG	6:WB:126:PHE:HD2	1.56	1.19
2:e:80:GLN:CD	3:AK:203:GLU:HB2	1.68	1.18
6:WI:197:LEU:HD12	6:WJ:175:SER:CB	1.74	1.17
5:AB:221:ILE:HG21	3:AH:251:ASP:OD2	1.43	1.17
6:AS:299:ASN:HD22	11:A0:78:VAL:CG1	1.58	1.17
6:AY:365:ASN:HB3	11:A9:72:HIS:CD2	1.79	1.17
3:ZD:233:MET:HE1	4:ZI:388:THR:CB	1.73	1.16
3:AG:6:TRP:CE2	12:BB:77:VAL:HG11	1.79	1.16
6:WJ:197:LEU:HD12	6:WK:175:SER:OG	1.41	1.15
6:Aj:372:ILE:CG2	10:A1:11:ILE:HG21	1.74	1.15
6:AS:299:ASN:ND2	11:A0:78:VAL:HG11	1.61	1.15
6:WA:158:ALA:HB2	6:WW:200:SER:O	1.44	1.15
5:AA:70:GLN:HG3	3:AL:3:SER:CA	1.77	1.15
6:WR:197:LEU:HD12	6:WS:175:SER:CB	1.75	1.14
3:9:85:ASN:HD22	4:ZK:4:SER:CB	1.58	1.14
3:ZA:37:GLN:NE2	4:ZF:43:PHE:CZ	2.16	1.14
3:ZD:185:GLU:OE2	4:ZI:46:SER:HB2	1.48	1.14
6:WD:168:GLU:CD	6:WD:170:LYS:CE	2.21	1.14
6:WK:197:LEU:HD12	6:WL:175:SER:CB	1.77	1.14
3:AK:6:TRP:CD1	12:BF:77:VAL:HG11	1.82	1.14
10:A4:21:ALA:CB	6:BV:278:THR:HG21	1.78	1.14
6:UJ:103:GLN:HB3	6:WD:182:PRO:HB3	1.20	1.14
5:AE:231:MET:HE3	3:AJ:257:LEU:HA	1.23	1.13
6:WI:197:LEU:HD12	6:WJ:175:SER:OG	1.47	1.13
2:k:53:THR:CG2	3:AJ:125:ASN:HB3	1.77	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ax:160:GLN:HA	6:WE:166:VAL:CG2	1.78	1.13
2:e:54:GLN:NE2	3:AK:137:GLN:NE2	1.95	1.13
5:AE:116:GLN:HE22	3:AJ:42:GLU:HG3	1.06	1.13
2:d:53:THR:HG22	3:AK:209:ASN:ND2	1.61	1.13
3:9:85:ASN:ND2	4:ZK:4:SER:HB2	1.61	1.13
5:AE:231:MET:CE	3:AJ:257:LEU:HA	1.79	1.13
6:AS:367:GLU:OE1	11:A0:68:THR:HG21	1.49	1.13
6:WK:193:ALA:HB1	6:WL:213:VAL:HG21	1.28	1.13
6:AY:367:GLU:OE1	11:A9:68:THR:HG21	1.49	1.13
6:WS:200:SER:O	6:WT:158:ALA:HB2	1.46	1.12
3:AJ:62:LEU:CD2	12:BF:83:PRO:HD2	1.78	1.12
6:WA:128:GLU:HG2	6:WB:126:PHE:HD2	0.96	1.12
6:WO:181:GLU:HB2	6:WO:184:ARG:HG3	1.14	1.12
10:A2:11:ILE:HD12	10:A2:12:SER:N	1.64	1.12
10:A5:7:ILE:HG21	6:BR:278:THR:HG21	1.21	1.12
3:ZD:233:MET:CE	4:ZI:388:THR:CA	2.21	1.12
9:Au:160:GLN:CB	6:WP:166:VAL:HG22	1.79	1.12
6:WR:112:GLY:HA2	6:WR:135:ALA:HA	1.27	1.12
6:An:278:THR:CG2	10:Az:14:LEU:HD23	1.78	1.12
3:AF:6:TRP:NE1	12:BA:77:VAL:CG1	2.13	1.11
8:At:145:TRP:CD1	6:WJ:164:LEU:HD22	1.83	1.11
6:WL:197:LEU:HD12	6:WM:175:SER:OG	1.49	1.11
8:At:145:TRP:NE1	6:WJ:164:LEU:HB2	1.65	1.11
6:WG:181:GLU:HB2	6:WG:184:ARG:HG3	1.14	1.11
6:WK:181:GLU:HB2	6:WK:184:ARG:HG3	1.14	1.11
6:WP:181:GLU:HB2	6:WP:184:ARG:HG3	1.14	1.11
6:AS:299:ASN:ND2	11:A0:78:VAL:CG1	2.14	1.11
5:AB:71:LEU:HD13	3:AM:70:THR:HG21	1.12	1.10
3:AH:44:LEU:HB3	12:BC:90:TYR:OH	1.47	1.10
6:AP:276:GLU:OE2	10:A5:19:MET:HA	1.51	1.10
6:WO:200:SER:OG	6:WP:175:SER:HB2	1.50	1.10
3:ZC:234:ILE:HG21	4:ZI:393:ASP:OD2	1.50	1.10
3:ZD:185:GLU:CD	4:ZI:46:SER:HB2	1.74	1.10
6:Ao:278:THR:HG21	10:Az:7:ILE:HG21	1.20	1.10
6:WF:181:GLU:HB2	6:WF:184:ARG:HG3	1.14	1.10
6:WU:197:LEU:HD12	6:WV:175:SER:OG	1.51	1.10
6:WE:181:GLU:HB2	6:WE:184:ARG:HG3	1.14	1.10
2:e:80:GLN:OE1	3:AK:203:GLU:CB	1.98	1.10
6:Ad:278:THR:HG21	10:A2:7:ILE:HB	1.16	1.10
6:AP:278:THR:HG21	10:A5:21:ALA:CB	1.80	1.10
1:Q:107:ASP:OD1	4:ZF:133:ASN:CB	1.99	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:273:CYS:HB2	2:k:264:MET:O	1.51	1.09
2:k:273:CYS:HB2	2:l:264:MET:O	1.51	1.09
3:ZE:240:TYR:CE2	4:ZJ:395:ILE:HG23	1.86	1.09
6:UN:167:ARG:NH2	6:WQ:188:GLU:HB3	1.68	1.09
6:WU:181:GLU:HB2	6:WU:184:ARG:HG3	1.14	1.09
2:i:273:CYS:HB2	2:j:264:MET:O	1.51	1.09
2:l:273:CYS:HB2	2:m:264:MET:O	1.51	1.09
5:AB:172:GLN:HE22	3:AG:52:PRO:HG3	0.97	1.09
6:Aj:370:ARG:HH21	10:A1:14:LEU:HD21	1.07	1.09
6:WA:197:LEU:HD12	6:WB:175:SER:OG	1.50	1.09
3:2:56:SER:O	5:AA:138:ALA:CB	1.99	1.09
5:AE:228:GLU:CB	3:AK:258:THR:CG2	2.30	1.09
5:AE:228:GLU:HB3	3:AK:258:THR:HG21	1.30	1.09
6:Ak:372:ILE:CG2	10:A1:4:ILE:HG12	1.81	1.09
6:WA:181:GLU:HB2	6:WA:184:ARG:HG3	1.14	1.09
2:h:273:CYS:HB2	2:i:264:MET:O	1.51	1.08
2:y:53:THR:HG21	3:AG:145:ASN:HD21	0.98	1.08
6:AP:278:THR:HG21	10:A5:21:ALA:HB1	1.29	1.08
7:Ar:15:LYS:NZ	6:WC:121:PHE:CZ	2.02	1.08
6:WA:158:ALA:CB	6:WW:200:SER:O	2.00	1.08
6:WR:181:GLU:HB2	6:WR:184:ARG:HG3	1.14	1.08
6:WV:181:GLU:HB2	6:WV:184:ARG:HG3	1.14	1.08
6:WW:181:GLU:HB2	6:WW:184:ARG:HG3	1.14	1.08
2:m:273:CYS:HB2	2:n:264:MET:O	1.51	1.08
2:r:273:CYS:HB2	2:s:264:MET:O	1.51	1.08
2:s:273:CYS:HB2	2:t:264:MET:O	1.51	1.08
6:WJ:197:LEU:HD12	6:WK:175:SER:CB	1.82	1.08
5:AA:70:GLN:CG	3:AL:3:SER:HA	1.82	1.08
5:AB:221:ILE:CG2	3:AH:251:ASP:OD2	2.00	1.08
6:WE:112:GLY:HA2	6:WE:135:ALA:HA	1.31	1.08
6:WN:181:GLU:HB2	6:WN:184:ARG:HG3	1.14	1.08
6:WQ:181:GLU:HB2	6:WQ:184:ARG:HG3	1.13	1.08
6:WT:181:GLU:HB2	6:WT:184:ARG:HG3	1.14	1.08
2:b:273:CYS:HB2	2:c:264:MET:O	1.51	1.08
2:q:273:CYS:HB2	2:r:264:MET:O	1.51	1.08
2:t:273:CYS:HB2	2:u:264:MET:O	1.51	1.08
6:WL:181:GLU:HB2	6:WL:184:ARG:HG3	1.14	1.08
2:c:273:CYS:HB2	2:d:264:MET:O	1.51	1.08
2:x:54:GLN:OE1	3:AG:168:VAL:HG11	1.50	1.08
2:a:273:CYS:HB2	2:b:264:MET:O	1.51	1.07
6:WD:181:GLU:HB2	6:WD:184:ARG:HG3	1.13	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WS:181:GLU:HB2	6:WS:184:ARG:HG3	1.13	1.07
2:d:273:CYS:HB2	2:e:264:MET:O	1.51	1.07
2:g:273:CYS:HB2	2:h:264:MET:O	1.51	1.07
2:p:273:CYS:HB2	2:q:264:MET:O	1.51	1.07
2:y:273:CYS:HB2	2:z:264:MET:O	1.51	1.07
5:AE:228:GLU:HB3	3:AK:258:THR:CG2	1.82	1.07
6:Af:365:ASN:HB3	11:A8:72:HIS:ND1	1.67	1.07
6:Aj:372:ILE:HD13	10:A1:11:ILE:HG22	1.36	1.07
2:n:273:CYS:HB2	2:o:264:MET:O	1.51	1.07
2:u:273:CYS:HB2	2:v:264:MET:O	1.51	1.07
2:y:53:THR:HG21	3:AG:145:ASN:ND2	1.69	1.07
6:Ao:278:THR:HG21	10:Az:7:ILE:CG2	1.85	1.07
6:WM:181:GLU:HB2	6:WM:184:ARG:HG3	1.14	1.07
2:a:264:MET:O	2:z:273:CYS:HB2	1.51	1.07
6:AV:278:THR:HG21	10:A3:21:ALA:CB	1.84	1.07
9:Ax:160:GLN:HA	6:WE:166:VAL:HG22	1.11	1.07
6:WI:181:GLU:HB2	6:WI:184:ARG:HG3	1.13	1.07
6:WN:196:HIS:HB3	6:WO:211:THR:HG21	1.34	1.07
2:q:319:LEU:HD21	2:r:264:MET:HE2	1.36	1.07
6:Am:278:THR:HG21	10:Az:21:ALA:CB	1.83	1.07
6:WB:181:GLU:HB2	6:WB:184:ARG:HG3	1.14	1.07
2:e:273:CYS:HB2	2:f:264:MET:O	1.51	1.06
3:AF:44:LEU:HD21	12:BA:78:TYR:CG	1.89	1.06
2:o:273:CYS:HB2	2:p:264:MET:O	1.51	1.06
2:r:319:LEU:HD21	2:s:264:MET:HE2	1.37	1.06
2:v:273:CYS:HB2	2:w:264:MET:O	1.51	1.06
5:AC:231:MET:HE1	3:AH:260:LEU:HD22	1.10	1.06
6:UK:207:PRO:HB2	6:WE:187:ASP:OD1	1.56	1.06
3:ZC:240:TYR:CE2	4:ZH:399:LEU:HD11	1.91	1.06
5:AD:16:LEU:HD23	3:AI:253:MET:CE	1.86	1.06
6:AV:357:SER:HB2	6:BO:318:ASN:HD21	1.20	1.06
6:Af:295:SER:HB2	11:A8:65:LEU:HB2	1.35	1.06
6:Ak:370:ARG:HH21	10:A1:7:ILE:CD1	1.67	1.06
6:WG:200:SER:OG	6:WH:175:SER:HB2	1.54	1.06
6:WH:181:GLU:HB2	6:WH:184:ARG:HG3	1.14	1.06
2:p:319:LEU:HD21	2:q:264:MET:HE2	1.36	1.06
2:w:319:LEU:HD21	2:x:264:MET:HE2	1.37	1.06
6:UK:207:PRO:HD2	6:WE:187:ASP:CG	1.80	1.06
6:WJ:181:GLU:HB2	6:WJ:184:ARG:HG3	1.14	1.06
6:WK:196:HIS:HB3	6:WL:211:THR:HG21	1.33	1.06
2:f:273:CYS:HB2	2:g:264:MET:O	1.51	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:319:LEU:HD21	2:w:264:MET:HE2	1.37	1.06
2:w:273:CYS:HB2	2:x:264:MET:O	1.51	1.06
3:AG:6:TRP:CZ2	12:BB:77:VAL:HG11	1.90	1.06
2:k:319:LEU:HD21	2:l:264:MET:HE2	1.36	1.05
2:x:273:CYS:HB2	2:y:264:MET:O	1.51	1.05
7:Ab:89:GLY:O	6:WS:164:LEU:HB2	1.54	1.05
11:A9:68:THR:OG1	11:A9:72:HIS:CE1	2.07	1.05
3:6:56:SER:HA	5:AE:138:ALA:CB	1.85	1.05
2:l:319:LEU:HD21	2:m:264:MET:HE2	1.37	1.05
2:x:319:LEU:HD21	2:y:264:MET:HE2	1.36	1.05
3:ZA:37:GLN:NE2	4:ZF:43:PHE:HZ	1.50	1.05
3:AG:73:ARG:HD3	12:BB:78:TYR:CE2	1.90	1.05
6:An:278:THR:HG21	10:Az:14:LEU:HD23	1.37	1.05
6:UK:207:PRO:CB	6:WE:187:ASP:OD1	2.04	1.05
6:WC:186:LEU:HD22	6:WC:190:GLN:HG2	1.38	1.05
3:2:58:GLU:CG	5:AA:140:ASP:OD2	2.03	1.05
2:j:319:LEU:HD21	2:k:264:MET:HE2	1.37	1.05
5:AB:109:PRO:HG3	3:AG:197:SER:O	1.55	1.05
10:A4:7:ILE:CG2	6:BX:278:THR:CG2	2.25	1.05
6:UJ:103:GLN:HB3	6:WD:182:PRO:CB	1.86	1.05
6:WG:112:GLY:HA2	6:WG:135:ALA:HA	1.36	1.05
2:s:319:LEU:HD21	2:t:264:MET:HE2	1.37	1.04
2:u:319:LEU:HD21	2:v:264:MET:HE2	1.36	1.04
5:AA:202:MET:HG3	3:AL:45:LEU:CD1	1.86	1.04
5:AB:116:GLN:NE2	3:AG:42:GLU:OE2	1.90	1.04
5:AD:221:ILE:CG2	3:AJ:251:ASP:OD1	2.05	1.04
6:Ag:295:SER:HB3	11:A8:72:HIS:CB	1.87	1.04
6:WM:143:THR:OG1	6:WN:154:ARG:HG2	1.57	1.04
6:WN:201:ALA:HA	6:WO:158:ALA:HB2	1.33	1.04
6:WS:112:GLY:HA2	6:WS:135:ALA:HA	1.12	1.04
5:AE:228:GLU:HB2	3:AK:258:THR:HG21	1.09	1.04
2:d:319:LEU:HD21	2:e:264:MET:HE2	1.36	1.04
2:o:319:LEU:HD21	2:p:264:MET:HE2	1.36	1.04
2:c:319:LEU:HD21	2:d:264:MET:HE2	1.36	1.04
2:m:319:LEU:HD21	2:n:264:MET:HE2	1.37	1.04
5:AB:172:GLN:NE2	3:AG:52:PRO:HG3	1.71	1.04
3:AF:44:LEU:CD2	12:BA:78:TYR:CG	2.41	1.04
7:Ab:8:MET:HE2	6:WS:124:SER:HB2	1.38	1.04
3:AG:73:ARG:HD3	12:BB:78:TYR:CZ	1.93	1.04
3:AL:52:PRO:HG3	12:BB:80:PRO:HB3	1.08	1.04
6:Ad:372:ILE:CG2	10:A2:11:ILE:HG22	1.87	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Aj:372:ILE:HD12	10:A1:11:ILE:HG22	1.38	1.04
7:As:68:TRP:HE1	6:WF:122:GLY:HA2	1.20	1.04
8:At:145:TRP:HE1	6:WJ:164:LEU:HB2	1.14	1.04
6:WD:200:SER:O	6:WE:158:ALA:HB2	1.58	1.04
2:t:80:GLN:OE1	3:AH:170:VAL:CG2	2.05	1.03
2:y:319:LEU:HD21	2:z:264:MET:HE2	1.36	1.03
8:At:145:TRP:CD1	6:WJ:164:LEU:CD1	2.41	1.03
10:A4:7:ILE:HG21	6:BX:278:THR:HG22	1.36	1.03
2:b:319:LEU:HD21	2:c:264:MET:HE2	1.36	1.03
2:e:319:LEU:HD21	2:f:264:MET:HE2	1.37	1.03
6:Ak:370:ARG:HH21	10:A1:7:ILE:HD11	1.00	1.03
6:WM:200:SER:OG	6:WN:175:SER:HB2	1.58	1.03
2:i:319:LEU:HD21	2:j:264:MET:HE2	1.37	1.03
9:Ax:160:GLN:CA	6:WE:166:VAL:HG22	1.86	1.03
3:3:56:SER:O	5:AB:138:ALA:HB1	1.57	1.03
5:AC:21:VAL:CG2	3:AH:68:ILE:HG22	1.89	1.03
5:AE:232:LYS:HE2	3:AK:260:LEU:C	1.84	1.03
6:AW:299:ASN:ND2	11:A9:55:ARG:NH2	2.06	1.03
6:WK:197:LEU:HD12	6:WL:175:SER:HB3	1.07	1.03
6:WL:197:LEU:HD12	6:WM:175:SER:CB	1.88	1.03
6:WV:112:GLY:HA2	6:WV:135:ALA:HA	1.40	1.03
6:Am:295:SER:HB2	11:A7:73:ILE:HG13	1.38	1.03
10:A5:7:ILE:HG21	6:BR:278:THR:CG2	1.87	1.03
2:f:319:LEU:HD21	2:g:264:MET:HE2	1.36	1.02
5:AA:73:TYR:CE1	3:AL:73:ARG:HG3	1.94	1.02
6:WO:197:LEU:HD12	6:WP:175:SER:OG	1.58	1.02
6:WD:168:GLU:CG	6:WD:170:LYS:CE	2.37	1.02
6:WJ:128:GLU:HG2	6:WK:126:PHE:HD2	1.22	1.02
6:WL:197:LEU:CD1	6:WM:175:SER:OG	2.06	1.02
6:WR:197:LEU:CD1	6:WS:175:SER:OG	2.06	1.02
2:a:319:LEU:HD21	2:b:264:MET:HE2	1.37	1.02
2:n:319:LEU:HD21	2:o:264:MET:HE2	1.36	1.02
2:t:319:LEU:HD21	2:u:264:MET:HE2	1.36	1.02
3:ZB:240:TYR:CD2	4:ZG:395:ILE:HG21	1.90	1.02
3:AF:6:TRP:HZ2	12:BA:79:GLU:CG	1.70	1.02
6:WT:197:LEU:HD12	6:WU:175:SER:OG	1.57	1.02
6:WH:203:ALA:HB1	6:WI:160:PRO:HB3	1.39	1.02
6:WN:200:SER:O	6:WO:158:ALA:CB	2.07	1.02
3:ZD:238:ARG:NE	4:ZJ:393:ASP:OD1	1.93	1.02
10:A2:11:ILE:HD12	10:A2:11:ILE:C	1.84	1.02
5:AD:221:ILE:HG21	3:AJ:251:ASP:CG	1.83	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AS:297:GLN:HB2	11:A0:65:LEU:CD2	1.90	1.01
7:Aq:89:GLY:HA2	6:WW:165:PHE:HE1	1.20	1.01
6:UJ:103:GLN:OE1	6:WD:182:PRO:HB3	1.58	1.01
6:WA:128:GLU:HG3	6:WB:126:PHE:CE2	1.95	1.01
6:WF:197:LEU:HD12	6:WG:175:SER:CB	1.89	1.01
2:h:319:LEU:HD21	2:i:264:MET:HE2	1.36	1.01
3:ZE:240:TYR:CD2	4:ZJ:395:ILE:HG23	1.94	1.01
5:AB:221:ILE:HG21	3:AH:251:ASP:CG	1.84	1.01
2:a:264:MET:HE2	2:z:319:LEU:HD21	1.37	1.01
2:g:319:LEU:HD21	2:h:264:MET:HE2	1.36	1.01
3:ZC:240:TYR:HE2	4:ZH:399:LEU:CD1	1.74	1.01
7:Aq:89:GLY:O	6:WW:164:LEU:HD12	1.60	1.01
9:Ay:241:GLN:HG2	6:WG:164:LEU:O	1.58	1.01
6:WN:200:SER:O	6:WO:158:ALA:HB3	1.59	1.01
6:WT:196:HIS:HB3	6:WU:211:THR:HG21	1.41	1.01
3:AJ:62:LEU:HD21	12:BF:83:PRO:HD2	1.41	1.01
8:At:145:TRP:HD1	6:WJ:164:LEU:HD22	1.26	1.01
9:Ax:161:GLY:HA2	6:WE:167:ARG:HD3	1.40	1.01
6:WA:160:PRO:HB3	6:WW:203:ALA:HB1	1.38	1.01
3:AF:62:LEU:CD2	12:BB:83:PRO:HG2	1.89	1.00
6:AV:278:THR:HG21	10:A3:21:ALA:HB3	1.43	1.00
6:WA:112:GLY:HA2	6:WA:135:ALA:HA	1.41	1.00
10:A4:21:ALA:HB1	6:BV:278:THR:HG21	1.43	1.00
8:At:145:TRP:HD1	6:WJ:164:LEU:CD2	1.74	1.00
6:AS:299:ASN:HD22	11:A0:78:VAL:HG11	0.86	1.00
6:WS:200:SER:O	6:WT:158:ALA:CB	2.09	1.00
6:UP:62:ASP:OD2	6:WV:184:ARG:NH2	1.95	1.00
2:l:53:THR:HG21	5:AD:153:ASN:HD21	1.22	1.00
3:AK:6:TRP:HD1	12:BF:77:VAL:CG1	1.74	1.00
3:6:56:SER:HA	5:AE:138:ALA:HB1	1.42	0.99
6:WD:168:GLU:HG2	6:WD:170:LYS:HE3	1.42	0.99
6:Ad:372:ILE:HG21	10:A2:11:ILE:CG2	1.92	0.99
2:d:53:THR:HG22	3:AK:209:ASN:CG	1.86	0.99
6:WD:200:SER:OG	6:WE:175:SER:HB2	1.59	0.99
3:ZB:240:TYR:HD2	4:ZG:395:ILE:HG23	1.26	0.99
9:Ax:241:GLN:HG2	6:WC:164:LEU:O	1.61	0.99
6:WH:200:SER:O	6:WI:158:ALA:HB2	1.62	0.99
2:j:192:GLU:OE1	2:k:95:PRO:HD2	1.63	0.99
2:o:192:GLU:OE1	2:p:95:PRO:HD2	1.63	0.99
5:AD:228:GLU:HG2	3:AI:256:LYS:HD3	1.42	0.99
6:UO:103:GLN:CD	6:WU:182:PRO:HB3	1.87	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:192:GLU:OE1	2:o:95:PRO:HD2	1.63	0.99
2:s:192:GLU:OE1	2:t:95:PRO:HD2	1.63	0.99
6:WJ:197:LEU:CD1	6:WK:175:SER:OG	2.11	0.99
6:WM:193:ALA:HB1	6:WN:213:VAL:HG11	1.44	0.99
3:ZE:238:ARG:NH2	4:ZK:393:ASP:OD1	1.96	0.99
2:t:192:GLU:OE1	2:u:95:PRO:HD2	1.63	0.99
6:WA:128:GLU:HG3	6:WB:126:PHE:CD2	1.96	0.99
2:i:192:GLU:OE1	2:j:95:PRO:HD2	1.63	0.98
2:l:53:THR:HG21	5:AD:153:ASN:ND2	1.77	0.98
6:UK:207:PRO:HD2	6:WE:187:ASP:OD2	1.61	0.98
2:x:192:GLU:OE1	2:y:95:PRO:HD2	1.63	0.98
2:f:192:GLU:OE1	2:g:95:PRO:HD2	1.63	0.98
6:UM:125:GLN:O	6:UM:129:GLN:N	1.97	0.98
6:UK:73:MET:CE	6:UK:99:ARG:HD3	1.93	0.98
6:UN:125:GLN:O	6:UN:129:GLN:N	1.97	0.98
2:e:192:GLU:OE1	2:f:95:PRO:HD2	1.63	0.98
2:f:110:MET:O	2:g:84:VAL:HG23	1.63	0.98
2:k:192:GLU:OE1	2:l:95:PRO:HD2	1.63	0.98
2:m:192:GLU:OE1	2:n:95:PRO:HD2	1.63	0.98
2:p:192:GLU:OE1	2:q:95:PRO:HD2	1.63	0.98
2:r:192:GLU:OE1	2:s:95:PRO:HD2	1.63	0.98
2:w:192:GLU:OE1	2:x:95:PRO:HD2	1.63	0.98
2:x:110:MET:O	2:y:84:VAL:HG23	1.63	0.98
2:y:110:MET:O	2:z:84:VAL:HG23	1.63	0.98
6:Ad:372:ILE:CG2	10:A2:11:ILE:CG2	2.42	0.98
6:UO:125:GLN:O	6:UO:129:GLN:N	1.97	0.98
2:g:110:MET:O	2:h:84:VAL:HG23	1.63	0.98
2:w:110:MET:O	2:x:84:VAL:HG23	1.63	0.98
6:UN:73:MET:CE	6:UN:99:ARG:HD3	1.93	0.98
6:UP:125:GLN:O	6:UP:129:GLN:N	1.97	0.98
2:a:84:VAL:HG23	2:z:110:MET:O	1.63	0.98
2:b:192:GLU:OE1	2:c:95:PRO:HD2	1.63	0.98
2:e:110:MET:O	2:f:84:VAL:HG23	1.63	0.98
2:h:110:MET:O	2:i:84:VAL:HG23	1.63	0.98
6:UP:73:MET:CE	6:UP:99:ARG:HD3	1.93	0.98
2:a:192:GLU:OE1	2:b:95:PRO:HD2	1.63	0.98
3:AG:6:TRP:NE1	12:BB:77:VAL:CG1	2.27	0.98
8:At:185:MET:O	8:At:189:PRO:HD2	1.64	0.98
8:At:248:PHE:HB3	6:WK:164:LEU:HD12	1.46	0.98
6:WF:197:LEU:CD1	6:WG:175:SER:OG	2.11	0.98
1:C:110:PRO:HD3	1:D:124:MET:HB2	1.46	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:u:192:GLU:OE1	2:v:95:PRO:HD2	1.63	0.97
1:B:110:PRO:HD3	1:C:124:MET:HB2	1.46	0.97
1:I:110:PRO:HD3	1:J:124:MET:HB2	1.46	0.97
2:h:192:GLU:OE1	2:i:95:PRO:HD2	1.63	0.97
9:Ax:241:GLN:CG	6:WC:164:LEU:O	2.12	0.97
10:A4:14:LEU:HD11	6:BX:370:ARG:HH21	1.29	0.97
6:UJ:73:MET:CE	6:UJ:99:ARG:HD3	1.93	0.97
2:v:110:MET:O	2:w:84:VAL:HG23	1.63	0.97
6:AY:299:ASN:HD21	11:A9:78:VAL:C	1.70	0.97
6:UO:73:MET:CE	6:UO:99:ARG:HD3	1.93	0.97
2:a:110:MET:O	2:b:84:VAL:HG23	1.63	0.97
2:b:110:MET:O	2:c:84:VAL:HG23	1.63	0.97
2:c:110:MET:O	2:d:84:VAL:HG23	1.64	0.97
2:y:192:GLU:OE1	2:z:95:PRO:HD2	1.63	0.97
1:J:110:PRO:HD3	1:K:124:MET:HB2	1.46	0.97
2:d:110:MET:O	2:e:84:VAL:HG23	1.63	0.97
2:d:192:GLU:OE1	2:e:95:PRO:HD2	1.63	0.97
2:g:192:GLU:OE1	2:h:95:PRO:HD2	1.63	0.97
6:UL:73:MET:CE	6:UL:99:ARG:HD3	1.93	0.97
2:i:110:MET:O	2:j:84:VAL:HG23	1.64	0.97
2:p:110:MET:O	2:q:84:VAL:HG23	1.63	0.97
3:ZE:19:MET:HE3	4:ZJ:395:ILE:HD11	1.45	0.97
6:Aj:372:ILE:HG21	10:A1:11:ILE:HG21	1.34	0.97
6:UL:219:LEU:HD22	6:BS:247:ARG:NH1	1.79	0.97
1:A:110:PRO:HD3	1:B:124:MET:HB2	1.46	0.97
1:D:110:PRO:HD3	1:E:124:MET:HB2	1.46	0.97
1:H:110:PRO:HD3	1:I:124:MET:HB2	1.46	0.97
2:o:110:MET:O	2:p:84:VAL:HG23	1.64	0.97
2:q:110:MET:O	2:r:84:VAL:HG23	1.63	0.97
2:v:192:GLU:OE1	2:w:95:PRO:HD2	1.63	0.97
3:ZD:218:TYR:OH	4:ZO:53:LYS:HD2	1.65	0.97
3:ZD:233:MET:HE1	4:ZI:388:THR:OG1	1.63	0.97
2:n:110:MET:O	2:o:84:VAL:HG23	1.63	0.97
3:ZC:240:TYR:CD2	4:ZH:395:ILE:CG2	2.48	0.97
3:AF:62:LEU:HD23	12:BB:83:PRO:HG2	1.45	0.97
6:Ac:278:THR:HG21	10:A2:14:LEU:HB3	1.45	0.97
6:WI:197:LEU:CD1	6:WJ:175:SER:OG	2.12	0.97
2:c:192:GLU:OE1	2:d:95:PRO:HD2	1.63	0.97
2:q:192:GLU:OE1	2:r:95:PRO:HD2	1.63	0.97
3:ZD:76:ALA:HB1	4:ZI:47:LYS:HE3	1.45	0.97
7:Ar:15:LYS:CE	6:WC:121:PHE:HZ	1.76	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:95:PRO:HD2	2:z:192:GLU:OE1	1.63	0.97
2:l:192:GLU:OE1	2:m:95:PRO:HD2	1.63	0.97
6:UI:73:MET:CE	6:UI:99:ARG:HD3	1.93	0.97
6:WT:197:LEU:HD12	6:WU:175:SER:CB	1.94	0.97
6:UI:125:GLN:O	6:UI:129:GLN:N	1.97	0.96
6:UM:73:MET:CE	6:UM:99:ARG:HD3	1.93	0.96
2:u:110:MET:O	2:v:84:VAL:HG23	1.63	0.96
9:Au:160:GLN:HB3	6:WP:166:VAL:HG22	0.99	0.96
6:WI:196:HIS:HB3	6:WJ:211:THR:HG21	1.45	0.96
1:K:110:PRO:HD3	1:L:124:MET:HB2	1.46	0.96
2:j:110:MET:O	2:k:84:VAL:HG23	1.63	0.96
2:m:110:MET:O	2:n:84:VAL:HG23	1.63	0.96
2:r:110:MET:O	2:s:84:VAL:HG23	1.63	0.96
6:AY:299:ASN:ND2	11:A9:78:VAL:O	1.99	0.96
6:UK:125:GLN:O	6:UK:129:GLN:N	1.97	0.96
1:V:110:PRO:HD3	1:W:124:MET:HB2	1.46	0.96
3:AF:62:LEU:HD21	12:BB:83:PRO:HD2	1.44	0.96
5:AD:221:ILE:CG2	3:AJ:251:ASP:CG	2.38	0.96
6:AS:365:ASN:HB3	11:A0:72:HIS:HD2	0.98	0.96
8:At:248:PHE:CB	6:WK:164:LEU:HD12	1.96	0.96
6:UL:125:GLN:O	6:UL:129:GLN:N	1.97	0.96
1:G:110:PRO:HD3	1:H:124:MET:HB2	1.46	0.96
1:P:110:PRO:HD3	1:Q:124:MET:HB2	1.46	0.96
5:AC:231:MET:CE	3:AH:260:LEU:HD22	1.94	0.96
6:UJ:125:GLN:O	6:UJ:129:GLN:N	1.97	0.96
1:U:110:PRO:HD3	1:V:124:MET:HB2	1.46	0.96
1:W:110:PRO:HD3	1:X:124:MET:HB2	1.46	0.96
5:AB:225:ARG:NH2	3:AH:255:GLN:OE1	1.99	0.96
5:AD:221:ILE:CG2	3:AJ:251:ASP:OD2	2.14	0.96
3:AF:44:LEU:HD22	12:BA:78:TYR:HB2	1.46	0.96
3:AG:6:TRP:NE1	12:BB:77:VAL:HG13	1.80	0.96
3:AH:44:LEU:HD22	12:BC:78:TYR:HB2	1.45	0.96
1:O:110:PRO:HD3	1:P:124:MET:HB2	1.46	0.96
3:AH:44:LEU:CD2	12:BC:78:TYR:HB2	1.95	0.96
6:Ad:372:ILE:HG21	10:A2:11:ILE:HG22	1.44	0.96
1:E:110:PRO:HD3	1:F:124:MET:HB2	1.46	0.96
3:ZC:234:ILE:CG2	4:ZI:393:ASP:OD2	2.13	0.96
6:WE:197:LEU:HD12	6:WF:175:SER:OG	1.63	0.96
6:WT:112:GLY:HA2	6:WT:135:ALA:HA	1.48	0.96
2:l:110:MET:O	2:m:84:VAL:HG23	1.63	0.95
2:s:110:MET:O	2:t:84:VAL:HG23	1.63	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:124:MET:HB2	1:Z:110:PRO:HD3	1.46	0.95
3:ZB:240:TYR:CD2	4:ZG:395:ILE:HG23	2.00	0.95
1:Q:110:PRO:HD3	1:R:124:MET:HB2	1.46	0.95
3:9:45:LEU:HD22	3:AM:98:LYS:HG3	1.47	0.95
3:ZB:240:TYR:CE2	4:ZG:395:ILE:CG2	2.49	0.95
2:t:110:MET:O	2:u:84:VAL:HG23	1.64	0.95
2:k:110:MET:O	2:l:84:VAL:HG23	1.63	0.95
5:AD:16:LEU:HD23	3:AI:253:MET:HE1	1.48	0.95
6:Ak:372:ILE:CG2	10:A1:4:ILE:CG1	2.44	0.95
6:WA:200:SER:OG	6:WB:175:SER:HB2	1.64	0.95
6:WH:200:SER:OG	6:WI:175:SER:HB2	1.66	0.95
6:Al:365:ASN:HB3	11:A7:72:HIS:CE1	2.02	0.95
6:WC:200:SER:O	6:WD:158:ALA:HB2	1.64	0.95
1:N:110:PRO:HD3	1:O:124:MET:HB2	1.46	0.95
6:Aj:372:ILE:CG2	10:A1:11:ILE:CG2	2.38	0.95
9:Ax:143:ARG:HA	6:WD:165:PHE:HB3	1.48	0.95
6:UP:133:GLN:NE2	6:UP:157:LEU:O	2.00	0.95
1:L:110:PRO:HD3	1:M:124:MET:HB2	1.46	0.95
1:X:110:PRO:HD3	1:Y:124:MET:HB2	1.46	0.95
2:z:80:GLN:OE1	3:AL:202:ASN:CG	2.10	0.95
6:UI:133:GLN:NE2	6:UI:157:LEU:O	2.00	0.95
6:UJ:133:GLN:NE2	6:UJ:157:LEU:O	2.00	0.95
6:WE:200:SER:OG	6:WF:175:SER:HB2	1.67	0.95
6:WK:197:LEU:CD1	6:WL:175:SER:HB3	1.96	0.95
1:T:110:PRO:HD3	1:U:124:MET:HB2	1.46	0.94
2:k:53:THR:HG21	3:AJ:125:ASN:HB3	0.97	0.94
6:WH:193:ALA:HB1	6:WI:213:VAL:HG11	1.46	0.94
6:UK:133:GLN:NE2	6:UK:157:LEU:O	2.00	0.94
5:AA:202:MET:HG3	3:AL:45:LEU:HD11	0.97	0.94
10:A4:7:ILE:HG21	6:BX:278:THR:HG21	1.31	0.94
6:UM:103:GLN:CD	6:WQ:182:PRO:HB3	1.93	0.94
6:UM:133:GLN:NE2	6:UM:157:LEU:O	2.00	0.94
6:UL:133:GLN:NE2	6:UL:157:LEU:O	2.00	0.94
6:UN:133:GLN:NE2	6:UN:157:LEU:O	2.00	0.94
6:WI:197:LEU:HD12	6:WJ:175:SER:HB3	1.47	0.94
1:F:110:PRO:HD3	1:G:124:MET:HB2	1.46	0.94
5:AB:71:LEU:HD13	3:AM:70:THR:CG2	1.97	0.94
1:R:110:PRO:HD3	1:S:124:MET:HB2	1.46	0.94
3:2:56:SER:C	5:AA:138:ALA:HB1	1.93	0.94
3:ZC:240:TYR:HE2	4:ZH:399:LEU:HD11	1.25	0.94
3:ZD:27:ALA:O	4:ZI:52:VAL:HG21	1.67	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AC:131:GLU:HB3	3:AH:179:MET:HE2	1.48	0.94
6:UM:62:ASP:OD2	6:WP:184:ARG:NH2	1.99	0.94
3:9:85:ASN:HD22	4:ZK:4:SER:HB2	0.78	0.94
6:WS:112:GLY:CA	6:WS:135:ALA:HA	1.98	0.94
6:WT:200:SER:O	6:WU:158:ALA:CB	2.15	0.94
1:E:62:TYR:HD2	2:c:129:VAL:HG13	1.33	0.94
6:AQ:295:SER:HB2	11:A6:65:LEU:HD22	1.49	0.94
1:M:110:PRO:HD3	1:N:124:MET:HB2	1.46	0.93
3:0:44:LEU:HD21	5:AD:205:VAL:HG11	1.47	0.93
1:D:62:TYR:HD2	2:b:129:VAL:HG13	1.34	0.93
3:ZD:233:MET:HE1	4:ZI:388:THR:HA	1.11	0.93
5:AB:221:ILE:CG2	3:AH:251:ASP:CG	2.41	0.93
6:WV:120:LYS:HZ3	6:WV:123:ILE:HD11	1.34	0.93
1:S:110:PRO:HD3	1:T:124:MET:HB2	1.46	0.93
1:Y:110:PRO:HD3	1:Z:124:MET:HB2	1.46	0.93
2:i:54:GLN:HE22	3:AJ:174:ASN:ND2	1.65	0.93
6:UO:133:GLN:NE2	6:UO:157:LEU:O	2.00	0.93
1:F:62:TYR:HD2	2:d:129:VAL:HG13	1.34	0.93
2:d:53:THR:CG2	3:AK:209:ASN:CG	2.41	0.93
6:Ag:295:SER:HB3	11:A8:72:HIS:HB2	1.48	0.93
1:C:62:TYR:HD2	2:a:129:VAL:HG13	1.33	0.93
6:AV:357:SER:HB2	6:BO:318:ASN:ND2	1.83	0.93
3:ZC:185:GLU:OE1	4:ZH:46:SER:HB2	1.69	0.93
3:ZE:240:TYR:CE2	4:ZJ:395:ILE:CG2	2.51	0.93
5:AD:221:ILE:HG21	3:AJ:251:ASP:OD2	1.65	0.93
6:UK:207:PRO:CG	6:WE:187:ASP:OD1	2.16	0.93
6:Ak:372:ILE:CB	10:A1:4:ILE:HG12	1.99	0.93
6:Ak:372:ILE:HG22	10:A1:4:ILE:HD11	1.49	0.92
1:G:62:TYR:HD2	2:e:129:VAL:HG13	1.34	0.92
6:WP:200:SER:OG	6:WQ:175:SER:HB2	1.69	0.92
6:WS:112:GLY:HA2	6:WS:135:ALA:CA	1.99	0.92
6:AY:365:ASN:HB3	11:A9:72:HIS:HD2	1.15	0.92
6:WA:197:LEU:HD12	6:WB:175:SER:CB	1.99	0.92
5:AA:202:MET:CE	3:AL:73:ARG:NH2	2.31	0.92
5:AA:228:GLU:OE1	3:AF:256:LYS:HG2	1.69	0.92
1:B:62:TYR:HD2	2:z:129:VAL:HG13	1.34	0.92
1:T:62:TYR:HD2	2:r:129:VAL:HG13	1.33	0.92
3:ZA:207:GLY:O	4:ZG:89:ASN:ND2	2.01	0.92
3:AL:52:PRO:CG	12:BB:80:PRO:HB3	1.98	0.92
6:WR:112:GLY:CA	6:WR:135:ALA:HA	2.00	0.92
1:H:62:TYR:HD2	2:f:129:VAL:HG13	1.34	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:62:TYR:HD2	2:p:129:VAL:HG13	1.34	0.92
1:S:62:TYR:HD2	2:q:129:VAL:HG13	1.34	0.92
3:ZE:218:TYR:OH	4:ZP:53:LYS:HD2	1.70	0.92
5:AB:71:LEU:CD1	3:AM:70:THR:HG21	1.99	0.92
5:AE:116:GLN:NE2	3:AJ:42:GLU:HG3	1.85	0.92
1:Q:62:TYR:HD2	2:o:129:VAL:HG13	1.34	0.92
6:UN:62:ASP:OD2	6:WR:184:ARG:NH2	2.02	0.92
3:ZA:240:TYR:CE2	4:ZF:395:ILE:HG23	2.04	0.92
2:e:54:GLN:HE22	3:AK:137:GLN:HE22	0.99	0.91
6:WF:181:GLU:CB	6:WF:184:ARG:HG3	2.00	0.91
6:WP:181:GLU:CB	6:WP:184:ARG:HG3	2.01	0.91
6:WT:181:GLU:CB	6:WT:184:ARG:HG3	2.00	0.91
1:A:62:TYR:HD2	2:y:129:VAL:HG13	1.34	0.91
1:P:62:TYR:HD2	2:n:129:VAL:HG13	1.34	0.91
5:AE:228:GLU:HB2	3:AK:258:THR:CG2	1.98	0.91
6:WA:181:GLU:CB	6:WA:184:ARG:HG3	2.01	0.91
1:I:62:TYR:HD2	2:g:129:VAL:HG13	1.34	0.91
1:U:62:TYR:HD2	2:s:129:VAL:HG13	1.34	0.91
5:AC:215:GLU:HG2	3:AI:9:LYS:HE3	1.51	0.91
6:WM:181:GLU:CB	6:WM:184:ARG:HG3	2.00	0.91
9:Ay:148:ALA:HB2	6:WI:164:LEU:HD22	1.50	0.91
3:O:195:THR:HG23	5:AD:152:PRO:HB2	1.52	0.91
3:2:58:GLU:CD	5:AA:140:ASP:OD2	2.14	0.91
6:WE:181:GLU:CB	6:WE:184:ARG:HG3	2.01	0.91
5:AC:84:GLN:OE1	3:AN:48:THR:HG22	1.71	0.91
3:AF:62:LEU:HG	12:BB:84:LEU:HD11	1.53	0.91
6:WB:181:GLU:CB	6:WB:184:ARG:HG3	2.01	0.91
3:1:193:ILE:HG21	5:AE:152:PRO:HG3	1.53	0.91
3:AF:6:TRP:HZ2	12:BA:79:GLU:CD	1.78	0.91
3:AK:6:TRP:CD1	12:BF:77:VAL:CG1	2.51	0.91
6:WS:121:PHE:HE1	6:WT:120:LYS:HZ3	0.94	0.91
1:V:62:TYR:HD2	2:t:129:VAL:HG13	1.34	0.91
1:Z:62:TYR:HD2	2:x:129:VAL:HG13	1.34	0.91
7:Ab:8:MET:CE	6:WS:124:SER:HB2	2.00	0.91
6:Aj:370:ARG:HH21	10:A1:14:LEU:CD2	1.83	0.91
6:WQ:181:GLU:CB	6:WQ:184:ARG:HG3	2.00	0.90
1:J:62:TYR:HD2	2:h:129:VAL:HG13	1.34	0.90
1:O:62:TYR:HD2	2:m:129:VAL:HG13	1.34	0.90
6:An:278:THR:HG21	10:Az:14:LEU:CD2	2.01	0.90
6:WI:181:GLU:CB	6:WI:184:ARG:HG3	2.00	0.90
6:WU:181:GLU:CB	6:WU:184:ARG:HG3	2.01	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ZC:240:TYR:CD2	4:ZH:395:ILE:HG23	2.05	0.90
6:WG:181:GLU:CB	6:WG:184:ARG:HG3	2.01	0.90
1:W:62:TYR:HD2	2:u:129:VAL:HG13	1.34	0.90
1:N:62:TYR:HD2	2:l:129:VAL:HG13	1.34	0.90
6:Ag:297:GLN:HB2	11:A8:73:ILE:HD13	1.53	0.90
6:WD:181:GLU:CB	6:WD:184:ARG:HG3	2.00	0.90
6:Ao:357:SER:OG	6:BI:319:GLN:CD	2.15	0.90
1:Y:62:TYR:HD2	2:w:129:VAL:HG13	1.34	0.90
8:At:145:TRP:CD1	6:WJ:164:LEU:CD2	2.53	0.90
9:Ax:153:LEU:HD21	6:WG:165:PHE:CZ	2.07	0.90
9:Ay:240:ALA:HB3	6:WG:165:PHE:HE1	1.36	0.90
10:A4:14:LEU:HB3	6:BW:278:THR:HG21	1.52	0.90
6:WH:181:GLU:CB	6:WH:184:ARG:HG3	2.00	0.90
6:WK:181:GLU:CB	6:WK:184:ARG:HG3	2.01	0.90
1:K:62:TYR:HD2	2:i:129:VAL:HG13	1.33	0.89
6:WJ:128:GLU:CG	6:WK:126:PHE:HD2	1.84	0.89
2:e:80:GLN:NE2	3:AK:203:GLU:HB2	1.86	0.89
3:5:257:LEU:HG	3:AI:230:LEU:HD12	1.53	0.89
6:WM:197:LEU:HD12	6:WN:175:SER:OG	1.72	0.89
3:ZD:85:ASN:OD1	4:ZO:50:LEU:HD13	1.72	0.89
10:A4:7:ILE:CB	6:BX:278:THR:HG21	2.01	0.89
6:WD:168:GLU:HG2	6:WD:170:LYS:CE	2.00	0.89
6:WV:181:GLU:CB	6:WV:184:ARG:HG3	2.01	0.89
1:X:62:TYR:HD2	2:v:129:VAL:HG13	1.34	0.89
10:A4:21:ALA:HB3	6:BV:278:THR:HG21	1.53	0.89
1:M:62:TYR:HD2	2:k:129:VAL:HG13	1.34	0.89
6:An:278:THR:HG22	10:Az:14:LEU:HD23	1.55	0.89
8:At:158:PRO:HG2	8:At:162:ASN:HD21	1.35	0.89
6:WB:197:LEU:HD12	6:WC:175:SER:OG	1.72	0.89
3:ZE:122:VAL:O	4:ZJ:322:ASN:CB	2.20	0.89
6:WD:115:LEU:HD22	6:WD:134:ARG:HD2	1.54	0.89
5:AC:62:PRO:HA	3:AH:63:PRO:HG2	1.55	0.89
7:Aq:89:GLY:HA2	6:WW:165:PHE:CE1	2.07	0.89
9:Ay:148:ALA:CB	6:WI:164:LEU:HD22	2.02	0.89
6:WO:181:GLU:CB	6:WO:184:ARG:HG3	2.00	0.89
3:1:70:THR:HG21	5:AE:71:LEU:HG	1.54	0.89
6:AW:299:ASN:ND2	11:A9:55:ARG:CZ	2.35	0.89
6:WD:200:SER:O	6:WE:158:ALA:CB	2.20	0.89
6:WJ:181:GLU:CB	6:WJ:184:ARG:HG3	2.00	0.89
6:WR:197:LEU:HD12	6:WS:175:SER:HB3	1.54	0.89
6:WR:181:GLU:CB	6:WR:184:ARG:HG3	2.01	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:7:235:GLN:NE2	3:ZD:9:LYS:HD2	1.88	0.88
1:L:62:TYR:HD2	2:j:129:VAL:HG13	1.34	0.88
5:AA:247:LEU:HB3	12:BB:120:ASN:HD21	1.37	0.88
5:AC:21:VAL:HG23	3:AH:68:ILE:HG22	1.56	0.88
6:WN:181:GLU:CB	6:WN:184:ARG:HG3	2.01	0.88
3:1:193:ILE:CG2	5:AE:152:PRO:HG3	2.04	0.88
3:AL:52:PRO:HG3	12:BB:80:PRO:CB	1.99	0.88
6:WW:181:GLU:CB	6:WW:184:ARG:HG3	2.00	0.88
3:7:235:GLN:HE22	3:ZD:9:LYS:HD2	1.39	0.88
6:Af:295:SER:CB	11:A8:65:LEU:HB2	2.03	0.88
6:UN:126:PHE:O	6:UN:130:VAL:N	2.07	0.88
5:AB:203:SER:O	3:AM:73:ARG:NH2	2.07	0.88
6:UK:126:PHE:CE1	6:UK:130:VAL:HG21	2.09	0.88
6:UM:126:PHE:CE1	6:UM:130:VAL:HG21	2.09	0.88
6:UP:126:PHE:CE1	6:UP:130:VAL:HG21	2.09	0.88
5:AD:27:ALA:O	3:AI:72:VAL:HG11	1.73	0.87
6:AY:365:ASN:CB	11:A9:72:HIS:HD2	1.87	0.87
6:UO:126:PHE:O	6:UO:130:VAL:N	2.07	0.87
6:UO:126:PHE:CE1	6:UO:130:VAL:HG21	2.09	0.87
6:WS:181:GLU:CB	6:WS:184:ARG:HG3	2.00	0.87
2:e:54:GLN:HE22	3:AK:137:GLN:HE21	1.14	0.87
3:5:85:ASN:ND2	4:ZG:4:SER:OG	2.06	0.87
5:AC:28:ASN:ND2	3:AH:43:ASP:HB3	1.89	0.87
5:AD:27:ALA:HB1	3:AI:72:VAL:HG12	1.55	0.87
6:UI:126:PHE:CE1	6:UI:130:VAL:HG21	2.09	0.87
6:WT:121:PHE:CZ	6:WU:122:GLY:O	2.27	0.87
6:UM:126:PHE:O	6:UM:130:VAL:N	2.07	0.87
6:WL:181:GLU:CB	6:WL:184:ARG:HG3	2.00	0.87
5:AE:231:MET:HE2	3:AJ:257:LEU:HB2	1.56	0.87
6:Ak:372:ILE:HB	10:A1:4:ILE:HG12	1.55	0.87
6:UK:126:PHE:O	6:UK:130:VAL:N	2.07	0.87
6:WV:200:SER:O	6:WW:158:ALA:HB2	1.73	0.87
3:ZB:240:TYR:CE2	4:ZG:395:ILE:HG22	2.08	0.87
5:AD:16:LEU:CD2	3:AI:253:MET:CE	2.52	0.87
3:AJ:62:LEU:HD23	12:BF:83:PRO:HG2	1.55	0.87
9:Ax:141:GLN:HA	6:WD:165:PHE:HE2	1.39	0.87
6:UJ:126:PHE:CE1	6:UJ:130:VAL:HG21	2.09	0.87
6:UL:126:PHE:CE1	6:UL:130:VAL:HG21	2.09	0.87
5:AB:228:GLU:OE1	3:AH:258:THR:OG1	1.92	0.87
6:UN:126:PHE:CE1	6:UN:130:VAL:HG21	2.09	0.87
6:UP:126:PHE:O	6:UP:130:VAL:N	2.07	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AB:221:ILE:CG2	3:AH:251:ASP:OD1	2.23	0.87
6:WD:203:ALA:HB1	6:WE:160:PRO:HB3	1.57	0.87
7:Ar:15:LYS:CE	6:WC:121:PHE:CZ	2.56	0.86
6:UJ:126:PHE:O	6:UJ:130:VAL:N	2.07	0.86
6:WK:200:SER:O	6:WL:158:ALA:HB3	1.75	0.86
3:AG:62:LEU:HD23	12:BC:83:PRO:HG2	1.56	0.86
5:AB:106:GLN:NE2	3:AG:78:GLU:OE1	2.09	0.86
6:Ag:297:GLN:HB2	11:A8:73:ILE:HD12	1.57	0.86
6:WC:200:SER:O	6:WD:158:ALA:CB	2.23	0.86
5:AA:220:MET:HE2	3:AF:246:ALA:HA	1.58	0.86
6:Ak:372:ILE:HG21	10:A1:4:ILE:HG12	1.57	0.86
6:WM:139:GLU:HB3	6:WN:154:ARG:HH21	1.39	0.86
2:t:250:ASP:OD2	2:u:23:ARG:NE	2.08	0.86
2:w:250:ASP:OD2	2:x:23:ARG:NE	2.08	0.86
6:WK:132:TYR:HB2	6:WL:126:PHE:HZ	1.40	0.86
6:WK:193:ALA:HB1	6:WL:213:VAL:CG2	2.06	0.86
2:s:250:ASP:OD2	2:t:23:ARG:NE	2.08	0.86
9:Au:139:LEU:O	6:WO:166:VAL:HG23	1.75	0.86
6:WB:200:SER:OG	6:WC:175:SER:HB2	1.76	0.86
2:p:250:ASP:OD2	2:q:23:ARG:NE	2.08	0.86
5:AC:217:MET:SD	3:AH:245:LYS:HD2	2.16	0.86
6:WA:196:HIS:HB3	6:WB:211:THR:HG21	1.57	0.86
3:AF:6:TRP:CZ2	12:BA:79:GLU:CD	2.54	0.86
6:Ak:372:ILE:HG21	10:A1:4:ILE:CG1	2.04	0.86
6:UL:126:PHE:O	6:UL:130:VAL:N	2.07	0.86
6:WS:121:PHE:HE1	6:WT:120:LYS:NZ	1.74	0.86
2:e:54:GLN:NE2	3:AK:137:GLN:HE21	1.65	0.85
2:x:250:ASP:OD2	2:y:23:ARG:NE	2.08	0.85
2:h:250:ASP:OD2	2:i:23:ARG:NE	2.08	0.85
6:UJ:103:GLN:CB	6:WD:182:PRO:HB3	2.04	0.85
2:q:250:ASP:OD2	2:r:23:ARG:NE	2.08	0.85
6:Ao:357:SER:HG	6:BI:319:GLN:CD	1.84	0.85
6:WR:200:SER:O	6:WS:158:ALA:CB	2.24	0.85
2:a:250:ASP:OD2	2:b:23:ARG:NE	2.08	0.85
2:v:250:ASP:OD2	2:w:23:ARG:NE	2.08	0.85
6:WR:196:HIS:HB3	6:WS:211:THR:HG21	1.56	0.85
2:a:23:ARG:NE	2:z:250:ASP:OD2	2.08	0.85
2:o:250:ASP:OD2	2:p:23:ARG:NE	2.08	0.85
6:Am:278:THR:HG21	10:Az:21:ALA:HB1	1.56	0.85
6:UI:126:PHE:O	6:UI:130:VAL:N	2.07	0.85
6:UJ:126:PHE:O	6:UJ:130:VAL:HG23	1.77	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WH:200:SER:O	6:WI:158:ALA:CB	2.23	0.85
2:e:250:ASP:OD2	2:f:23:ARG:NE	2.08	0.85
2:k:250:ASP:OD2	2:l:23:ARG:NE	2.08	0.85
2:l:250:ASP:OD2	2:m:23:ARG:NE	2.08	0.85
3:AF:62:LEU:CD2	12:BB:83:PRO:CG	2.55	0.85
6:UM:103:GLN:CG	6:WQ:182:PRO:HB3	2.07	0.85
2:d:250:ASP:OD2	2:e:23:ARG:NE	2.08	0.85
2:g:250:ASP:OD2	2:h:23:ARG:NE	2.08	0.85
2:m:250:ASP:OD2	2:n:23:ARG:NE	2.08	0.85
2:u:250:ASP:OD2	2:v:23:ARG:NE	2.08	0.85
8:At:156:THR:HG22	6:WK:167:ARG:CG	2.04	0.85
6:AS:297:GLN:HB2	11:A0:65:LEU:HD22	1.57	0.85
11:A9:68:THR:HG1	11:A9:72:HIS:CE1	1.95	0.85
6:UI:126:PHE:O	6:UI:130:VAL:HG23	1.77	0.85
6:WV:200:SER:O	6:WW:158:ALA:CB	2.25	0.85
3:2:244:SER:OG	3:7:256:LYS:NZ	2.10	0.85
5:AA:202:MET:HE1	3:AL:73:ARG:HH21	1.41	0.85
5:AD:221:ILE:HG21	3:AJ:251:ASP:OD1	1.73	0.85
7:Ab:4:GLU:HB2	6:WS:125:GLN:HB2	1.57	0.85
9:Aw:152:ARG:HH21	6:WC:165:PHE:HD2	1.21	0.85
2:r:250:ASP:OD2	2:s:23:ARG:NE	2.08	0.84
6:AX:361:ASN:HD22	11:A9:78:VAL:HG12	1.40	0.84
8:At:145:TRP:HD1	6:WJ:164:LEU:CD1	1.82	0.84
6:WM:197:LEU:HD12	6:WN:175:SER:CB	2.05	0.84
2:b:250:ASP:OD2	2:c:23:ARG:NE	2.08	0.84
2:i:250:ASP:OD2	2:j:23:ARG:NE	2.08	0.84
2:j:250:ASP:OD2	2:k:23:ARG:NE	2.08	0.84
3:0:238:ARG:HH21	3:6:255:GLN:HB2	1.42	0.84
5:AE:16:LEU:HD23	3:AJ:253:MET:CE	2.07	0.84
6:WU:197:LEU:HD12	6:WV:175:SER:CB	2.07	0.84
2:n:250:ASP:OD2	2:o:23:ARG:NE	2.08	0.84
5:AB:70:GLN:CG	3:AM:6:TRP:CD1	2.60	0.84
5:AC:21:VAL:HG22	3:AH:68:ILE:HG22	1.59	0.84
6:UN:126:PHE:O	6:UN:130:VAL:HG23	1.77	0.84
3:7:85:ASN:ND2	4:ZI:4:SER:OG	2.11	0.84
2:y:250:ASP:OD2	2:z:23:ARG:NE	2.08	0.84
7:As:68:TRP:NE1	6:WF:122:GLY:HA2	1.92	0.84
6:UK:126:PHE:O	6:UK:130:VAL:HG23	1.77	0.84
6:WA:175:SER:HB2	6:WW:200:SER:OG	1.76	0.84
6:WA:175:SER:CB	6:WW:197:LEU:HD12	2.08	0.84
2:f:250:ASP:OD2	2:g:23:ARG:NE	2.08	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UL:126:PHE:O	6:UL:130:VAL:HG23	1.77	0.84
6:UO:103:GLN:NE2	6:WU:182:PRO:HB3	1.92	0.84
5:AE:16:LEU:HD23	3:AJ:253:MET:HE1	1.58	0.84
6:Ak:372:ILE:HG22	10:A1:4:ILE:CD1	2.08	0.84
11:A6:88:ARG:NH1	11:A6:105:GLU:OE1	2.10	0.84
2:c:250:ASP:OD2	2:d:23:ARG:NE	2.08	0.84
3:5:231:VAL:HG11	3:ZB:9:LYS:HG2	1.60	0.84
6:Af:297:GLN:OE1	11:A8:76:GLN:O	1.96	0.84
8:At:182:ASN:HB3	8:At:239:PHE:HZ	1.43	0.84
6:WT:200:SER:O	6:WU:158:ALA:HB2	1.77	0.84
3:ZD:24:ASN:ND2	4:ZI:49:GLY:HA3	1.93	0.84
3:ZD:233:MET:CE	4:ZI:388:THR:CB	2.55	0.84
5:AC:71:LEU:HB2	3:AN:70:THR:CG2	2.06	0.84
5:AD:217:MET:HE1	3:AI:242:ILE:HD13	1.58	0.84
6:UP:126:PHE:O	6:UP:130:VAL:HG23	1.77	0.84
3:ZC:28:ASN:OD1	4:ZH:52:VAL:HG23	1.77	0.83
5:AA:58:THR:HG22	3:AF:50:ARG:HH22	1.42	0.83
5:AC:217:MET:CE	3:AN:258:THR:HA	2.08	0.83
3:AF:6:TRP:CZ2	12:BA:79:GLU:CG	2.59	0.83
6:Ad:278:THR:CG2	10:A2:7:ILE:HB	2.06	0.83
6:UJ:167:ARG:NH2	6:WB:188:GLU:HB3	1.92	0.83
5:AB:225:ARG:HH21	3:AH:255:GLN:CD	1.84	0.83
6:WQ:200:SER:OG	6:WR:175:SER:HB2	1.78	0.83
5:AB:202:MET:HE3	3:AM:73:ARG:NH1	1.93	0.83
5:AC:217:MET:HE3	3:AN:258:THR:HA	1.59	0.83
8:At:145:TRP:HD1	6:WJ:164:LEU:CG	1.91	0.83
6:UJ:103:GLN:OE1	6:WD:182:PRO:CB	2.26	0.83
6:UM:126:PHE:O	6:UM:130:VAL:HG23	1.77	0.83
6:UN:94:HIS:HB3	6:UN:146:THR:HG21	1.60	0.83
10:A5:7:ILE:CG2	6:BR:278:THR:CG2	2.52	0.83
6:UK:207:PRO:CD	6:WE:187:ASP:CG	2.51	0.83
6:UO:126:PHE:O	6:UO:130:VAL:HG23	1.77	0.83
3:5:56:SER:O	5:AD:138:ALA:HB1	1.78	0.83
5:AB:224:ALA:HA	3:AG:253:MET:CE	2.07	0.83
6:Aj:370:ARG:NH2	10:A1:14:LEU:HD21	1.91	0.83
6:UP:94:HIS:HB3	6:UP:146:THR:HG21	1.61	0.83
5:AB:172:GLN:HE22	3:AG:52:PRO:CG	1.88	0.83
5:AB:221:ILE:HD13	3:AH:251:ASP:OD2	1.78	0.83
9:Au:160:GLN:CB	6:WP:166:VAL:CG2	2.46	0.83
5:AE:231:MET:CE	3:AJ:257:LEU:CA	2.55	0.83
6:UL:94:HIS:HB3	6:UL:146:THR:HG21	1.60	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UO:94:HIS:HB3	6:UO:146:THR:HG21	1.60	0.83
1:N:62:TYR:CD2	2:l:129:VAL:HG13	2.14	0.83
1:O:62:TYR:CD2	2:m:129:VAL:HG13	2.14	0.83
1:P:62:TYR:CD2	2:n:129:VAL:HG13	2.14	0.83
3:AG:6:TRP:CZ2	12:BB:77:VAL:CG1	2.56	0.83
6:WG:200:SER:O	6:WH:158:ALA:HB2	1.79	0.83
1:M:62:TYR:CD2	2:k:129:VAL:HG13	2.14	0.83
6:AW:299:ASN:HD22	11:A9:55:ARG:NH2	1.75	0.83
1:Q:62:TYR:CD2	2:o:129:VAL:HG13	2.14	0.82
1:L:62:TYR:CD2	2:j:129:VAL:HG13	2.14	0.82
5:AC:70:GLN:HB2	3:AN:6:TRP:CE3	2.14	0.82
1:A:62:TYR:HD2	2:y:129:VAL:CG1	1.92	0.82
1:K:62:TYR:CD2	2:i:129:VAL:HG13	2.14	0.82
1:R:62:TYR:CD2	2:p:129:VAL:HG13	2.14	0.82
5:AC:70:GLN:HB2	3:AN:6:TRP:HE3	1.42	0.82
1:B:62:TYR:HD2	2:z:129:VAL:CG1	1.92	0.82
3:AM:3:SER:O	3:AM:7:ILE:HG13	1.79	0.82
1:S:62:TYR:CD2	2:q:129:VAL:HG13	2.14	0.82
8:At:145:TRP:CD1	6:WJ:164:LEU:CG	2.62	0.82
6:WT:197:LEU:CD1	6:WU:175:SER:OG	2.27	0.82
1:B:62:TYR:CD2	2:z:129:VAL:HG13	2.14	0.82
1:C:62:TYR:CD2	2:a:129:VAL:HG13	2.14	0.82
1:G:62:TYR:HD2	2:e:129:VAL:CG1	1.92	0.82
1:V:62:TYR:HD2	2:t:129:VAL:CG1	1.92	0.82
2:t:78:ASN:HB3	3:AH:168:VAL:HG13	1.62	0.82
5:AA:220:MET:CE	3:AF:246:ALA:HB2	2.10	0.82
6:Ak:370:ARG:CZ	10:A1:7:ILE:HD11	2.08	0.82
1:A:62:TYR:CD2	2:y:129:VAL:HG13	2.14	0.82
1:C:62:TYR:HD2	2:a:129:VAL:CG1	1.92	0.82
1:F:62:TYR:HD2	2:d:129:VAL:CG1	1.92	0.82
1:J:62:TYR:CD2	2:h:129:VAL:HG13	2.14	0.82
1:O:62:TYR:HD2	2:m:129:VAL:CG1	1.92	0.82
1:P:62:TYR:HD2	2:n:129:VAL:CG1	1.92	0.82
1:W:62:TYR:HD2	2:u:129:VAL:CG1	1.92	0.82
1:Z:62:TYR:CD2	2:x:129:VAL:HG13	2.14	0.82
1:D:62:TYR:CD2	2:b:129:VAL:HG13	2.14	0.82
1:E:62:TYR:CD2	2:c:129:VAL:HG13	2.14	0.82
1:T:62:TYR:CD2	2:r:129:VAL:HG13	2.14	0.82
1:Y:62:TYR:CD2	2:w:129:VAL:HG13	2.14	0.82
1:Z:62:TYR:HD2	2:x:129:VAL:CG1	1.92	0.82
3:ZA:77:THR:H	4:ZF:47:LYS:HD2	1.45	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AC:28:ASN:HD21	3:AH:43:ASP:HB3	1.44	0.82
3:AH:2:ILE:HG13	3:AH:254:LEU:HD11	1.62	0.82
6:AX:372:ILE:HD12	10:A3:11:ILE:HG22	1.62	0.82
7:Aq:2:THR:CG2	6:WW:125:GLN:OE1	2.27	0.82
6:UI:94:HIS:HB3	6:UI:146:THR:HG21	1.61	0.82
6:UK:207:PRO:CD	6:WE:187:ASP:OD1	2.27	0.82
3:9:42:GLU:HG2	3:9:75:VAL:HG23	1.62	0.82
6:AR:278:THR:HG21	10:A2:21:ALA:HB1	1.62	0.82
6:UJ:167:ARG:HH22	6:WB:188:GLU:HB3	1.44	0.82
12:BE:6:ILE:HG21	12:BE:122:VAL:HG11	1.59	0.82
1:N:62:TYR:HD2	2:l:129:VAL:CG1	1.92	0.82
1:Q:62:TYR:HD2	2:o:129:VAL:CG1	1.92	0.82
1:U:62:TYR:HD2	2:s:129:VAL:CG1	1.92	0.82
1:X:62:TYR:CD2	2:v:129:VAL:HG13	2.14	0.82
6:AS:299:ASN:ND2	11:A0:78:VAL:HG12	1.93	0.82
1:H:62:TYR:HD2	2:f:129:VAL:CG1	1.92	0.81
1:I:62:TYR:CD2	2:g:129:VAL:HG13	2.14	0.81
1:M:62:TYR:HD2	2:k:129:VAL:CG1	1.92	0.81
2:h:273:CYS:HA	2:i:328:LEU:CD2	2.10	0.81
2:j:273:CYS:HA	2:k:328:LEU:CD2	2.10	0.81
10:A4:14:LEU:HD23	6:BW:278:THR:CG2	2.09	0.81
6:UK:128:GLU:O	6:UK:132:TYR:N	2.13	0.81
6:UL:128:GLU:O	6:UL:132:TYR:N	2.13	0.81
6:WK:196:HIS:CB	6:WL:211:THR:HG21	2.10	0.81
1:F:62:TYR:CD2	2:d:129:VAL:HG13	2.14	0.81
1:W:62:TYR:CD2	2:u:129:VAL:HG13	2.14	0.81
1:X:62:TYR:HD2	2:v:129:VAL:CG1	1.92	0.81
2:i:273:CYS:HA	2:j:328:LEU:CD2	2.10	0.81
2:k:273:CYS:HA	2:l:328:LEU:CD2	2.10	0.81
3:AF:44:LEU:CD2	12:BA:78:TYR:CD1	2.62	0.81
6:AP:278:THR:CG2	10:A5:21:ALA:HB1	2.10	0.81
6:UP:127:SER:O	6:UP:131:ASN:N	2.13	0.81
1:E:62:TYR:HD2	2:c:129:VAL:CG1	1.92	0.81
1:K:62:TYR:HD2	2:i:129:VAL:CG1	1.92	0.81
1:L:62:TYR:HD2	2:j:129:VAL:CG1	1.92	0.81
1:R:62:TYR:HD2	2:p:129:VAL:CG1	1.92	0.81
1:U:62:TYR:CD2	2:s:129:VAL:HG13	2.14	0.81
2:e:273:CYS:HA	2:f:328:LEU:CD2	2.10	0.81
2:f:273:CYS:HA	2:g:328:LEU:CD2	2.10	0.81
2:g:273:CYS:HA	2:h:328:LEU:CD2	2.10	0.81
2:l:273:CYS:HA	2:m:328:LEU:CD2	2.10	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m:273:CYS:HA	2:n:328:LEU:CD2	2.10	0.81
3:3:55:GLN:O	5:AB:138:ALA:HB2	1.80	0.81
3:ZB:122:VAL:O	4:ZG:322:ASN:CG	2.23	0.81
3:ZB:240:TYR:OH	4:ZG:399:LEU:HD11	1.79	0.81
5:AA:247:LEU:HB3	12:BB:120:ASN:ND2	1.94	0.81
5:AC:228:GLU:HG2	3:AH:256:LYS:HG3	1.60	0.81
3:AG:6:TRP:CH2	12:BB:79:GLU:OE2	2.33	0.81
7:Ar:28:ALA:HB1	7:Ar:54:LYS:HE3	1.60	0.81
8:At:144:LEU:HB2	6:WJ:164:LEU:CD2	2.10	0.81
6:UI:127:SER:O	6:UI:131:ASN:N	2.13	0.81
6:UJ:73:MET:HE1	6:UJ:99:ARG:HD3	1.62	0.81
6:UJ:94:HIS:HB3	6:UJ:146:THR:HG21	1.60	0.81
6:UO:127:SER:O	6:UO:131:ASN:N	2.13	0.81
1:G:62:TYR:CD2	2:e:129:VAL:HG13	2.14	0.81
2:d:273:CYS:HA	2:e:328:LEU:CD2	2.10	0.81
1:S:62:TYR:HD2	2:q:129:VAL:CG1	1.92	0.81
1:V:62:TYR:CD2	2:t:129:VAL:HG13	2.14	0.81
2:c:273:CYS:HA	2:d:328:LEU:CD2	2.10	0.81
2:n:273:CYS:HA	2:o:328:LEU:CD2	2.10	0.81
2:o:273:CYS:HA	2:p:328:LEU:CD2	2.10	0.81
5:AD:26:LEU:CD1	3:AI:242:ILE:HG21	2.09	0.81
11:A0:33:ALA:O	11:A0:98:ASN:ND2	2.13	0.81
6:UM:94:HIS:HB3	6:UM:146:THR:HG21	1.60	0.81
6:UM:103:GLN:HG2	6:WQ:182:PRO:HB3	1.61	0.81
6:WI:200:SER:O	6:WJ:158:ALA:CB	2.29	0.81
1:H:62:TYR:CD2	2:f:129:VAL:HG13	2.14	0.81
2:r:273:CYS:HA	2:s:328:LEU:CD2	2.10	0.81
5:AA:202:MET:SD	3:AL:45:LEU:CD1	2.69	0.81
3:AF:62:LEU:CD2	12:BB:83:PRO:HD2	2.09	0.81
7:Ab:8:MET:HE2	6:WS:124:SER:CB	2.11	0.81
1:D:62:TYR:HD2	2:b:129:VAL:CG1	1.92	0.81
2:b:273:CYS:HA	2:c:328:LEU:CD2	2.10	0.81
3:AI:185:GLU:HG3	3:AN:67:GLN:HE22	1.46	0.81
6:UJ:128:GLU:O	6:UJ:132:TYR:N	2.13	0.81
6:UL:127:SER:O	6:UL:131:ASN:N	2.13	0.81
1:Y:62:TYR:HD2	2:w:129:VAL:CG1	1.92	0.81
2:a:273:CYS:HA	2:b:328:LEU:CD2	2.10	0.81
2:p:273:CYS:HA	2:q:328:LEU:CD2	2.10	0.81
1:S:110:PRO:HD3	1:T:124:MET:CB	2.11	0.81
1:U:110:PRO:HD3	1:V:124:MET:CB	2.11	0.81
6:UI:73:MET:HE1	6:UI:99:ARG:HD3	1.62	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UK:94:HIS:HB3	6:UK:146:THR:HG21	1.60	0.81
6:UN:127:SER:O	6:UN:131:ASN:N	2.13	0.81
1:I:62:TYR:HD2	2:g:129:VAL:CG1	1.92	0.81
1:T:62:TYR:HD2	2:r:129:VAL:CG1	1.92	0.81
1:T:110:PRO:HD3	1:U:124:MET:CB	2.11	0.81
1:V:110:PRO:HD3	1:W:124:MET:CB	2.11	0.81
2:a:328:LEU:CD2	2:z:273:CYS:HA	2.10	0.81
2:q:273:CYS:HA	2:r:328:LEU:CD2	2.10	0.81
5:AA:202:MET:CG	3:AL:45:LEU:CD1	2.53	0.81
6:UJ:127:SER:O	6:UJ:131:ASN:N	2.13	0.81
1:W:110:PRO:HD3	1:X:124:MET:CB	2.11	0.80
2:y:273:CYS:HA	2:z:328:LEU:CD2	2.10	0.80
6:UM:73:MET:HE1	6:UM:99:ARG:HD3	1.62	0.80
6:UM:127:SER:O	6:UM:131:ASN:N	2.13	0.80
6:WA:197:LEU:CD1	6:WB:175:SER:OG	2.28	0.80
6:WP:200:SER:O	6:WQ:158:ALA:HB2	1.80	0.80
1:J:62:TYR:HD2	2:h:129:VAL:CG1	1.92	0.80
1:Y:110:PRO:HD3	1:Z:124:MET:CB	2.11	0.80
2:x:273:CYS:HA	2:y:328:LEU:CD2	2.10	0.80
8:At:149:LEU:HD13	6:WK:165:PHE:HA	1.62	0.80
6:UK:127:SER:O	6:UK:131:ASN:N	2.13	0.80
6:WK:143:THR:CB	6:WL:156:HIS:HE2	1.94	0.80
6:WT:121:PHE:CE1	6:WU:122:GLY:O	2.34	0.80
1:R:110:PRO:HD3	1:S:124:MET:CB	2.11	0.80
1:X:110:PRO:HD3	1:Y:124:MET:CB	2.11	0.80
6:AS:365:ASN:CB	11:A0:72:HIS:HD2	1.88	0.80
6:UI:128:GLU:O	6:UI:132:TYR:N	2.13	0.80
1:Q:110:PRO:HD3	1:R:124:MET:CB	2.11	0.80
2:f:53:THR:CG2	3:AK:127:GLN:HE22	1.94	0.80
2:w:273:CYS:HA	2:x:328:LEU:CD2	2.10	0.80
3:0:51:GLN:HB3	3:0:52:PRO:HD2	1.62	0.80
3:0:153:ARG:HD2	3:0:213:LEU:HD13	1.63	0.80
4:ZO:236:GLY:HA2	4:ZO:268:GLN:H	1.46	0.80
9:Ay:240:ALA:HB3	6:WG:165:PHE:CE1	2.17	0.80
6:UP:73:MET:HE1	6:UP:99:ARG:HD3	1.61	0.80
2:s:273:CYS:HA	2:t:328:LEU:CD2	2.10	0.80
3:6:231:VAL:HG11	3:ZC:9:LYS:HG2	1.63	0.80
1:A:124:MET:CB	1:Z:110:PRO:HD3	2.11	0.80
1:P:110:PRO:HD3	1:Q:124:MET:CB	2.11	0.80
2:o:273:CYS:HA	2:p:328:LEU:HD21	1.64	0.80
2:t:273:CYS:HA	2:u:328:LEU:CD2	2.10	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AG:28:ASN:HD21	3:AL:43:ASP:HB3	1.45	0.80
6:WH:143:THR:OG1	6:WI:154:ARG:HG2	1.82	0.80
2:u:273:CYS:HA	2:v:328:LEU:CD2	2.10	0.80
2:v:273:CYS:HA	2:w:328:LEU:CD2	2.10	0.80
5:AE:231:MET:HE1	3:AJ:257:LEU:CD1	2.11	0.80
6:Ad:372:ILE:CB	10:A2:11:ILE:HG22	2.11	0.80
6:AQ:278:THR:HG21	10:A5:14:LEU:HB3	1.64	0.80
1:A:110:PRO:HD3	1:B:124:MET:CB	2.11	0.80
2:p:273:CYS:HA	2:q:328:LEU:HD21	1.64	0.80
2:q:273:CYS:HA	2:r:328:LEU:HD21	1.64	0.80
1:O:110:PRO:HD3	1:P:124:MET:CB	2.11	0.80
3:AF:9:LYS:HE3	12:BF:100:GLY:HA2	1.64	0.80
2:d:273:CYS:HA	2:e:328:LEU:HD21	1.64	0.80
2:e:273:CYS:HA	2:f:328:LEU:HD21	1.64	0.80
2:n:273:CYS:HA	2:o:328:LEU:HD21	1.64	0.80
5:AA:225:ARG:NH2	3:AG:251:ASP:OD1	2.11	0.80
5:AD:26:LEU:HD12	3:AI:242:ILE:CG2	2.11	0.80
6:Ae:370:ARG:HE	10:A2:7:ILE:HD11	1.46	0.80
8:At:144:LEU:CB	6:WJ:164:LEU:CD2	2.60	0.80
6:WV:197:LEU:HD12	6:WW:175:SER:CB	2.12	0.80
1:B:110:PRO:HD3	1:C:124:MET:CB	2.11	0.79
2:c:273:CYS:HA	2:d:328:LEU:HD21	1.64	0.79
2:f:273:CYS:HA	2:g:328:LEU:HD21	1.64	0.79
2:j:80:GLN:OE1	3:AJ:174:ASN:ND2	2.14	0.79
2:o:78:ASN:ND2	3:AI:169:GLN:NE2	2.30	0.79
2:r:273:CYS:HA	2:s:328:LEU:HD21	1.64	0.79
6:WG:197:LEU:HD12	6:WH:175:SER:OG	1.82	0.79
6:WU:200:SER:OG	6:WV:175:SER:HB2	1.82	0.79
1:N:110:PRO:HD3	1:O:124:MET:CB	2.11	0.79
2:b:273:CYS:HA	2:c:328:LEU:HD21	1.64	0.79
2:m:273:CYS:HA	2:n:328:LEU:HD21	1.64	0.79
6:UK:73:MET:HE1	6:UK:99:ARG:HD3	1.61	0.79
6:UN:73:MET:HE1	6:UN:99:ARG:HD3	1.62	0.79
1:C:110:PRO:HD3	1:D:124:MET:CB	2.11	0.79
3:4:56:SER:C	5:AC:138:ALA:HB1	2.06	0.79
9:Aw:152:ARG:HD3	6:WB:164:LEU:O	1.81	0.79
3:ZD:76:ALA:CB	4:ZI:47:LYS:HE3	2.12	0.79
6:WH:181:GLU:HB2	6:WH:184:ARG:CG	2.07	0.79
12:BD:6:ILE:HG21	12:BD:122:VAL:HG21	1.63	0.79
1:M:110:PRO:HD3	1:N:124:MET:CB	2.11	0.79
2:g:273:CYS:HA	2:h:328:LEU:HD21	1.64	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AJ:62:LEU:HD23	12:BF:83:PRO:HD2	1.65	0.79
9:Ay:83:ALA:HB3	9:Ay:84:PRO:HD3	1.62	0.79
6:WM:181:GLU:HB2	6:WM:184:ARG:CG	2.07	0.79
1:D:102:THR:HG23	1:E:130:ASN:ND2	1.97	0.79
1:D:110:PRO:HD3	1:E:124:MET:CB	2.11	0.79
1:P:102:THR:HG23	1:Q:130:ASN:ND2	1.97	0.79
1:S:102:THR:HG23	1:T:130:ASN:ND2	1.97	0.79
1:T:102:THR:HG23	1:U:130:ASN:ND2	1.97	0.79
2:a:273:CYS:HA	2:b:328:LEU:HD21	1.64	0.79
2:l:273:CYS:HA	2:m:328:LEU:HD21	1.64	0.79
2:s:273:CYS:HA	2:t:328:LEU:HD21	1.64	0.79
5:AB:202:MET:HE1	3:AM:73:ARG:CD	2.12	0.79
6:WF:200:SER:OG	6:WG:175:SER:HB2	1.81	0.79
1:E:102:THR:HG23	1:F:130:ASN:ND2	1.97	0.79
5:AC:71:LEU:HD23	3:AN:70:THR:HG21	1.62	0.79
9:Au:160:GLN:O	6:WP:165:PHE:HB3	1.83	0.79
6:UM:128:GLU:O	6:UM:132:TYR:N	2.13	0.79
6:UO:73:MET:HE1	6:UO:99:ARG:HD3	1.62	0.79
6:WA:175:SER:OG	6:WW:197:LEU:HD12	1.83	0.79
6:WG:143:THR:OG1	6:WH:154:ARG:HG2	1.83	0.79
6:WJ:181:GLU:HB2	6:WJ:184:ARG:CG	2.07	0.79
6:WJ:197:LEU:HD12	6:WK:175:SER:HB3	1.63	0.79
1:E:110:PRO:HD3	1:F:124:MET:CB	2.11	0.79
1:F:110:PRO:HD3	1:G:124:MET:CB	2.11	0.79
1:J:110:PRO:HD3	1:K:124:MET:CB	2.11	0.79
1:K:110:PRO:HD3	1:L:124:MET:CB	2.11	0.79
1:L:110:PRO:HD3	1:M:124:MET:CB	2.11	0.79
1:M:102:THR:HG23	1:N:130:ASN:ND2	1.97	0.79
1:V:102:THR:HG23	1:W:130:ASN:ND2	1.97	0.79
2:a:328:LEU:HD21	2:z:273:CYS:HA	1.64	0.79
2:h:273:CYS:HA	2:i:328:LEU:HD21	1.64	0.79
1:R:102:THR:HG23	1:S:130:ASN:ND2	1.97	0.79
1:U:102:THR:HG23	1:V:130:ASN:ND2	1.97	0.79
2:x:80:GLN:OE1	3:AG:169:GLN:OE1	2.01	0.79
1:F:102:THR:HG23	1:G:130:ASN:ND2	1.97	0.79
1:I:110:PRO:HD3	1:J:124:MET:CB	2.11	0.79
1:Y:102:THR:HG23	1:Z:130:ASN:ND2	1.97	0.79
3:9:241:GLU:HG2	3:ZE:256:LYS:HG3	1.63	0.79
7:Aq:39:GLN:NE2	7:Aq:46:GLU:O	2.13	0.79
6:UI:98:LEU:HD22	6:UI:147:LEU:HD21	1.65	0.79
6:WA:175:SER:HB3	6:WW:197:LEU:HD12	1.64	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WN:201:ALA:CA	6:WO:158:ALA:HB2	2.13	0.79
6:WO:181:GLU:HB2	6:WO:184:ARG:CG	2.07	0.79
1:A:130:ASN:ND2	1:Z:102:THR:HG23	1.97	0.78
1:C:102:THR:HG23	1:D:130:ASN:ND2	1.97	0.78
1:H:110:PRO:HD3	1:I:124:MET:CB	2.11	0.78
1:L:102:THR:HG23	1:M:130:ASN:ND2	1.97	0.78
2:t:273:CYS:HA	2:u:328:LEU:HD21	1.64	0.78
3:2:179:MET:HE2	3:AL:126:GLY:HA2	1.65	0.78
6:UL:73:MET:HE1	6:UL:99:ARG:HD3	1.62	0.78
1:G:110:PRO:HD3	1:H:124:MET:CB	2.11	0.78
1:J:102:THR:HG23	1:K:130:ASN:ND2	1.97	0.78
1:K:102:THR:HG23	1:L:130:ASN:ND2	1.97	0.78
1:Q:102:THR:HG23	1:R:130:ASN:ND2	1.97	0.78
1:X:102:THR:HG23	1:Y:130:ASN:ND2	1.97	0.78
3:1:193:ILE:HG21	5:AE:152:PRO:CG	2.13	0.78
3:AJ:62:LEU:CD2	12:BF:83:PRO:CD	2.61	0.78
9:Ax:161:GLY:HA2	6:WE:167:ARG:CD	2.12	0.78
6:UO:128:GLU:O	6:UO:132:TYR:N	2.14	0.78
6:WQ:113:PHE:HB3	6:WR:134:ARG:HE	1.48	0.78
3:AH:44:LEU:CD2	12:BC:78:TYR:CB	2.61	0.78
11:A8:35:THR:HG22	12:BC:49:PHE:HB3	1.65	0.78
6:UJ:98:LEU:HD22	6:UJ:147:LEU:HD21	1.66	0.78
6:UJ:103:GLN:HB3	6:WD:182:PRO:CA	2.13	0.78
6:WI:181:GLU:HB2	6:WI:184:ARG:CG	2.07	0.78
1:I:102:THR:HG23	1:J:130:ASN:ND2	1.97	0.78
2:y:273:CYS:HA	2:z:328:LEU:HD21	1.64	0.78
4:ZQ:160:SER:HA	4:ZQ:268:GLN:HE21	1.48	0.78
6:AW:299:ASN:HD21	11:A9:55:ARG:CZ	1.97	0.78
6:AX:372:ILE:CD1	10:A3:11:ILE:HG22	2.14	0.78
8:At:249:ASN:HB2	6:WK:162:PRO:HB2	1.64	0.78
9:Au:141:GLN:HE22	9:Au:243:PHE:HB3	1.47	0.78
11:A7:67:LEU:HD11	11:A7:74:PRO:HA	1.64	0.78
1:N:102:THR:HG23	1:O:130:ASN:ND2	1.97	0.78
2:k:273:CYS:HA	2:l:328:LEU:HD21	1.64	0.78
3:5:52:PRO:HB3	3:5:65:GLY:H	1.49	0.78
3:6:56:SER:HA	5:AE:138:ALA:HB2	1.64	0.78
5:AB:224:ALA:HA	3:AG:253:MET:HE2	1.66	0.78
6:WP:197:LEU:HD12	6:WQ:175:SER:OG	1.83	0.78
6:WP:200:SER:O	6:WQ:158:ALA:CB	2.31	0.78
1:A:102:THR:HG23	1:B:130:ASN:ND2	1.97	0.78
1:O:102:THR:HG23	1:P:130:ASN:ND2	1.97	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:273:CYS:HA	2:j:328:LEU:HD21	1.64	0.78
5:AA:26:LEU:HD13	3:AF:242:ILE:CG2	2.13	0.78
3:AK:6:TRP:HD1	12:BF:77:VAL:HG13	1.49	0.78
6:WL:181:GLU:HB2	6:WL:184:ARG:CG	2.07	0.78
2:u:273:CYS:HA	2:v:328:LEU:HD21	1.64	0.78
3:l:52:PRO:HG3	12:BF:80:PRO:HB3	1.65	0.78
6:UK:207:PRO:CD	6:WE:187:ASP:OD2	2.31	0.78
6:UP:128:GLU:O	6:UP:132:TYR:N	2.13	0.78
6:WV:120:LYS:NZ	6:WV:123:ILE:HD11	1.99	0.78
1:G:102:THR:HG23	1:H:130:ASN:ND2	1.97	0.78
1:W:102:THR:HG23	1:X:130:ASN:ND2	1.97	0.78
3:AF:62:LEU:HD21	12:BB:83:PRO:CD	2.13	0.78
6:Ag:295:SER:OG	11:A8:72:HIS:HA	1.83	0.78
1:B:102:THR:HG23	1:C:130:ASN:ND2	1.97	0.78
1:H:102:THR:HG23	1:I:130:ASN:ND2	1.97	0.78
2:x:273:CYS:HA	2:y:328:LEU:HD21	1.64	0.78
3:ZA:145:ASN:OD1	4:ZF:352:ASN:ND2	2.15	0.78
6:WA:167:ARG:NH2	6:WA:168:GLU:OE2	2.17	0.78
1:Q:136:GLY:HA3	1:S:213:ILE:HG23	1.66	0.78
3:6:226:VAL:HG11	3:ZB:242:ILE:HD13	1.65	0.78
4:ZQ:2:SER:OG	4:ZQ:3:PHE:N	2.17	0.78
5:AB:223:ASN:C	3:AG:253:MET:HE2	2.09	0.78
3:AF:44:LEU:HD23	12:BA:78:TYR:CD1	2.18	0.78
6:WU:197:LEU:CD1	6:WV:175:SER:OG	2.29	0.78
1:D:136:GLY:HA3	1:F:213:ILE:HG23	1.67	0.77
1:E:136:GLY:HA3	1:G:213:ILE:HG23	1.67	0.77
1:N:136:GLY:HA3	1:P:213:ILE:HG23	1.67	0.77
1:O:136:GLY:HA3	1:Q:213:ILE:HG23	1.67	0.77
2:j:273:CYS:HA	2:k:328:LEU:HD21	1.64	0.77
3:l:193:ILE:CG2	5:AE:152:PRO:CG	2.61	0.77
3:ZE:240:TYR:CE2	4:ZJ:399:LEU:HD11	2.19	0.77
6:UK:98:LEU:HD22	6:UK:147:LEU:HD21	1.66	0.77
6:UO:98:LEU:HD22	6:UO:147:LEU:HD21	1.65	0.77
6:WS:200:SER:OG	6:WT:175:SER:HB2	1.83	0.77
1:B:136:GLY:HA3	1:D:213:ILE:HG23	1.67	0.77
1:C:136:GLY:HA3	1:E:213:ILE:HG23	1.67	0.77
1:M:136:GLY:HA3	1:O:213:ILE:HG23	1.67	0.77
1:R:136:GLY:HA3	1:T:213:ILE:HG23	1.67	0.77
4:ZI:126:PRO:HG2	4:ZI:310:GLN:HG2	1.64	0.77
3:AH:157:VAL:HB	3:AH:171:GLY:HA3	1.66	0.77
6:WJ:128:GLU:CG	6:WK:126:PHE:CD2	2.67	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WJ:143:THR:OG1	6:WK:154:ARG:HG2	1.83	0.77
1:A:136:GLY:HA3	1:C:213:ILE:HG23	1.67	0.77
1:P:136:GLY:HA3	1:R:213:ILE:HG23	1.67	0.77
1:T:136:GLY:HA3	1:V:213:ILE:HG23	1.67	0.77
3:5:226:VAL:HG11	3:ZA:242:ILE:HD13	1.65	0.77
6:UM:98:LEU:HD22	6:UM:147:LEU:HD21	1.66	0.77
6:WF:128:GLU:HG2	6:WG:126:PHE:HD2	1.48	0.77
6:WF:187:ASP:HB3	6:WF:190:GLN:HG3	1.66	0.77
1:B:213:ILE:HG23	1:Z:136:GLY:HA3	1.67	0.77
1:F:136:GLY:HA3	1:H:213:ILE:HG23	1.67	0.77
1:S:136:GLY:HA3	1:U:213:ILE:HG23	1.67	0.77
1:U:136:GLY:HA3	1:W:213:ILE:HG23	1.67	0.77
3:ZE:19:MET:HE3	4:ZJ:395:ILE:CD1	2.14	0.77
1:G:136:GLY:HA3	1:I:213:ILE:HG23	1.67	0.77
1:L:136:GLY:HA3	1:N:213:ILE:HG23	1.67	0.77
2:v:273:CYS:HA	2:w:328:LEU:HD21	1.64	0.77
3:ZB:233:MET:HE1	4:ZG:388:THR:OG1	1.84	0.77
1:V:136:GLY:HA3	1:X:213:ILE:HG23	1.67	0.77
1:W:136:GLY:HA3	1:Y:213:ILE:HG23	1.67	0.77
2:g:78:ASN:HB3	3:AK:125:ASN:OD1	1.85	0.77
2:y:53:THR:CG2	3:AG:145:ASN:ND2	2.38	0.77
6:Ai:303:GLN:HE22	6:BK:319:GLN:HB3	1.49	0.77
6:WD:197:LEU:HD12	6:WE:175:SER:OG	1.85	0.77
6:WK:197:LEU:CD1	6:WL:175:SER:CB	2.59	0.77
1:H:136:GLY:HA3	1:J:213:ILE:HG23	1.67	0.77
1:K:136:GLY:HA3	1:M:213:ILE:HG23	1.67	0.77
1:X:136:GLY:HA3	1:Z:213:ILE:HG23	1.67	0.77
2:w:273:CYS:HA	2:x:328:LEU:HD21	1.64	0.77
3:AJ:62:LEU:HD23	12:BF:83:PRO:CG	2.15	0.77
6:Af:365:ASN:CB	11:A8:72:HIS:ND1	2.47	0.77
6:UP:98:LEU:HD22	6:UP:147:LEU:HD21	1.66	0.77
6:WT:197:LEU:HD12	6:WU:175:SER:HB3	1.65	0.77
1:A:213:ILE:HG23	1:Y:136:GLY:HA3	1.67	0.77
6:AT:236:LYS:NZ	6:UJ:167:ARG:HH11	1.83	0.77
6:AP:276:GLU:OE2	10:A5:19:MET:CA	2.32	0.77
6:UJ:261:LEU:HB3	6:UJ:270:THR:HG23	1.67	0.77
6:UL:98:LEU:HD22	6:UL:147:LEU:HD21	1.66	0.77
1:I:136:GLY:HA3	1:K:213:ILE:HG23	1.67	0.77
1:J:136:GLY:HA3	1:L:213:ILE:HG23	1.67	0.77
5:AB:70:GLN:OE1	3:AM:1:MET:N	2.17	0.77
8:At:242:HIS:ND1	6:WJ:125:GLN:HG3	1.99	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ay:62:THR:HG23	9:Ay:101:MET:HE2	1.66	0.77
10:A4:14:LEU:HD23	6:BW:278:THR:HG22	1.66	0.77
6:UN:128:GLU:O	6:UN:132:TYR:N	2.13	0.77
6:WO:203:ALA:HB1	6:WP:160:PRO:HB3	1.66	0.77
8:At:149:LEU:CD1	6:WK:165:PHE:HA	2.15	0.77
6:UN:167:ARG:HH22	6:WQ:188:GLU:HB3	1.47	0.77
6:Ag:297:GLN:HB2	11:A8:73:ILE:HD11	1.63	0.76
6:WM:197:LEU:HD12	6:WN:175:SER:HB3	1.67	0.76
3:6:56:SER:CA	5:AE:138:ALA:HB1	2.15	0.76
3:ZD:185:GLU:OE2	4:ZI:46:SER:CB	2.33	0.76
5:AA:70:GLN:HG3	3:AL:3:SER:HA	0.86	0.76
10:A2:11:ILE:C	10:A2:11:ILE:CD1	2.57	0.76
6:UP:212:LEU:HB3	6:UP:221:THR:HG23	1.67	0.76
6:WQ:181:GLU:HB2	6:WQ:184:ARG:CG	2.07	0.76
3:3:56:SER:C	5:AB:138:ALA:HB1	2.11	0.76
3:ZA:37:GLN:NE2	4:ZF:43:PHE:CE1	2.52	0.76
4:ZM:319:ASN:ND2	4:ZM:352:ASN:OD1	2.18	0.76
3:AG:73:ARG:CD	12:BB:78:TYR:CE2	2.69	0.76
6:AV:278:THR:HG21	10:A3:21:ALA:HB1	1.65	0.76
6:WT:200:SER:O	6:WU:158:ALA:HB3	1.84	0.76
4:ZU:380:ARG:NH1	4:Za:393:ASP:OD1	2.18	0.76
5:AB:70:GLN:CB	3:AM:6:TRP:CD1	2.68	0.76
6:AT:295:SER:HB2	11:A0:73:ILE:HG13	1.67	0.76
6:WD:193:ALA:HB1	6:WE:213:VAL:HG11	1.66	0.76
2:s:117:ARG:HH12	2:s:145:GLY:HA3	1.51	0.76
6:AR:278:THR:HG21	10:A2:21:ALA:CB	2.16	0.76
7:Aq:2:THR:HG21	6:WW:125:GLN:HB2	1.66	0.76
6:WN:200:SER:HA	6:WO:173:SER:OG	1.85	0.76
5:AC:27:ALA:O	3:AH:72:VAL:HG11	1.84	0.76
6:UL:167:ARG:NH1	6:WF:188:GLU:OE2	2.19	0.76
6:UM:212:LEU:HB3	6:UM:221:THR:HG23	1.67	0.76
6:WK:181:GLU:HB2	6:WK:184:ARG:CG	2.07	0.76
6:WQ:197:LEU:CD1	6:WR:175:SER:OG	2.26	0.76
4:ZF:118:GLY:HA2	4:ZF:316:VAL:HG12	1.68	0.76
6:UI:212:LEU:HB3	6:UI:221:THR:HG23	1.67	0.76
6:WW:181:GLU:HB2	6:WW:184:ARG:CG	2.07	0.76
2:t:117:ARG:HH12	2:t:145:GLY:HA3	1.51	0.76
5:AB:109:PRO:CG	3:AG:197:SER:O	2.34	0.76
6:UN:98:LEU:HD22	6:UN:147:LEU:HD21	1.66	0.76
6:WA:211:THR:HG21	6:WW:196:HIS:HB3	1.67	0.76
6:WN:197:LEU:HD12	6:WO:175:SER:HB3	1.68	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WP:196:HIS:HB3	6:WQ:211:THR:HG21	1.66	0.76
2:k:117:ARG:HH12	2:k:145:GLY:HA3	1.51	0.76
2:l:117:ARG:HH12	2:l:145:GLY:HA3	1.51	0.76
6:WB:163:SER:HB2	6:WB:166:VAL:HG22	1.67	0.76
6:WP:181:GLU:HB2	6:WP:184:ARG:CG	2.07	0.76
2:j:117:ARG:HH12	2:j:145:GLY:HA3	1.51	0.76
2:r:117:ARG:HH12	2:r:145:GLY:HA3	1.51	0.76
5:AA:202:MET:SD	3:AL:45:LEU:HD12	2.26	0.76
6:UN:212:LEU:HB3	6:UN:221:THR:HG23	1.67	0.76
6:WA:181:GLU:HB2	6:WA:184:ARG:CG	2.07	0.76
2:d:53:THR:CG2	3:AK:209:ASN:ND2	2.46	0.75
4:Zh:196:MET:HE3	4:Zh:259:PHE:HZ	1.51	0.75
5:AB:70:GLN:HG3	3:AM:6:TRP:CD1	2.20	0.75
5:AB:109:PRO:HG3	3:AG:197:SER:C	2.09	0.75
5:AC:215:GLU:CG	3:AI:9:LYS:HE3	2.16	0.75
7:As:55:ILE:HD11	9:Ax:205:MET:HE1	1.67	0.75
6:WT:160:PRO:HD3	6:WT:172:PRO:HA	1.66	0.75
9:Ay:152:ARG:HH22	6:WJ:164:LEU:C	1.95	0.75
6:WD:112:GLY:HA2	6:WD:135:ALA:HA	1.67	0.75
2:y:117:ARG:HH12	2:y:145:GLY:HA3	1.51	0.75
2:z:117:ARG:HH12	2:z:145:GLY:HA3	1.51	0.75
5:AD:221:ILE:CD1	3:AJ:251:ASP:OD2	2.29	0.75
10:A5:4:ILE:CD1	6:BS:374:HIS:HB2	2.16	0.75
6:UL:212:LEU:HB3	6:UL:221:THR:HG23	1.67	0.75
6:UO:212:LEU:HB3	6:UO:221:THR:HG23	1.67	0.75
6:WC:199:SER:HA	6:WC:205:LEU:HD23	1.69	0.75
6:WD:199:SER:HA	6:WD:205:LEU:HD23	1.69	0.75
2:a:117:ARG:HH12	2:a:145:GLY:HA3	1.51	0.75
2:b:117:ARG:HH12	2:b:145:GLY:HA3	1.51	0.75
2:c:117:ARG:HH12	2:c:145:GLY:HA3	1.51	0.75
2:d:117:ARG:HH12	2:d:145:GLY:HA3	1.51	0.75
2:q:117:ARG:HH12	2:q:145:GLY:HA3	1.51	0.75
2:u:117:ARG:HH12	2:u:145:GLY:HA3	1.51	0.75
3:ZC:190:ASN:OD1	4:ZH:41:ASP:OD2	2.05	0.75
6:AX:278:THR:HG21	10:A3:7:ILE:CG2	2.17	0.75
6:UK:73:MET:HE1	6:UK:99:ARG:CD	2.17	0.75
6:WE:199:SER:HA	6:WE:205:LEU:HD23	1.68	0.75
6:WN:199:SER:HA	6:WN:205:LEU:HD23	1.69	0.75
6:WP:199:SER:HA	6:WP:205:LEU:HD23	1.69	0.75
2:f:117:ARG:HH12	2:f:145:GLY:HA3	1.51	0.75
2:w:117:ARG:HH12	2:w:145:GLY:HA3	1.51	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:x:117:ARG:HH12	2:x:145:GLY:HA3	1.51	0.75
3:ZC:10:THR:CG2	3:ZC:71:GLY:HA3	2.17	0.75
4:ZI:2:SER:HB3	4:ZI:392:GLN:HE21	1.51	0.75
5:AB:70:GLN:HB2	3:AM:6:TRP:CD1	2.20	0.75
6:AS:294:ARG:CD	11:A0:68:THR:CG2	2.65	0.75
6:WA:199:SER:HA	6:WA:205:LEU:HD23	1.69	0.75
6:WF:199:SER:HA	6:WF:205:LEU:HD23	1.69	0.75
2:e:117:ARG:HH12	2:e:145:GLY:HA3	1.51	0.75
2:g:117:ARG:HH12	2:g:145:GLY:HA3	1.51	0.75
2:i:117:ARG:HH12	2:i:145:GLY:HA3	1.51	0.75
2:v:117:ARG:HH12	2:v:145:GLY:HA3	1.51	0.75
6:WI:199:SER:HA	6:WI:205:LEU:HD23	1.69	0.75
2:m:117:ARG:HH12	2:m:145:GLY:HA3	1.51	0.75
5:AE:231:MET:HE3	3:AJ:260:LEU:HD23	1.69	0.75
3:AG:147:LEU:HD11	3:AG:162:GLN:HG2	1.68	0.75
6:Ae:374:HIS:HB2	10:A2:4:ILE:HD12	1.68	0.75
9:Au:147:LEU:HD12	6:WO:166:VAL:HG11	1.66	0.75
6:UL:73:MET:HE1	6:UL:99:ARG:CD	2.17	0.75
6:WC:200:SER:OG	6:WD:175:SER:HB2	1.86	0.75
6:WF:196:HIS:HB3	6:WG:211:THR:HG21	1.67	0.75
6:WO:199:SER:HA	6:WO:205:LEU:HD23	1.69	0.75
6:WW:199:SER:HA	6:WW:205:LEU:HD23	1.69	0.75
2:h:117:ARG:HH12	2:h:145:GLY:HA3	1.51	0.75
6:AX:278:THR:CG2	10:A3:7:ILE:HG21	2.15	0.75
7:Aq:2:THR:HG22	6:WW:125:GLN:OE1	1.86	0.75
6:WI:200:SER:O	6:WJ:158:ALA:HB3	1.86	0.75
6:WR:181:GLU:HB2	6:WR:184:ARG:CG	2.07	0.75
3:ZC:240:TYR:HD2	4:ZH:395:ILE:HG23	1.52	0.75
5:AD:229:MET:HG3	3:AJ:258:THR:HG22	1.67	0.75
6:Am:295:SER:CB	11:A7:73:ILE:HG13	2.14	0.75
6:UM:139:GLU:OE1	6:UM:142:ARG:NH2	2.20	0.75
6:WB:199:SER:HA	6:WB:205:LEU:HD23	1.68	0.75
3:ZC:122:VAL:O	4:ZH:322:ASN:HB2	1.87	0.74
3:AF:62:LEU:HD23	12:BB:83:PRO:CG	2.17	0.74
6:UK:212:LEU:HB3	6:UK:221:THR:HG23	1.67	0.74
6:WC:193:ALA:HB1	6:WD:213:VAL:HG11	1.68	0.74
6:WG:199:SER:HA	6:WG:205:LEU:HD23	1.69	0.74
6:WR:200:SER:O	6:WS:158:ALA:HB2	1.87	0.74
6:BJ:312:VAL:O	6:BJ:317:SER:OG	2.05	0.74
3:6:57:SER:HB3	3:AK:108:PRO:HB3	1.68	0.74
3:ZC:19:MET:HE1	4:ZH:391:THR:HG21	1.68	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ZD:185:GLU:OE1	4:ZI:46:SER:HB2	1.85	0.74
4:Zh:112:GLN:HE21	4:Zh:331:ASP:HB2	1.51	0.74
5:AC:231:MET:HE1	3:AH:260:LEU:CD2	2.05	0.74
3:0:44:LEU:HD23	5:AD:202:MET:SD	2.27	0.74
9:Av:135:ARG:NH2	9:Av:165:VAL:O	2.21	0.74
6:UK:94:HIS:CB	6:UK:146:THR:HG21	2.17	0.74
6:UO:94:HIS:CB	6:UO:146:THR:HG21	2.17	0.74
6:WD:149:PRO:HG2	6:WD:190:GLN:HE22	1.52	0.74
12:BC:6:ILE:HG21	12:BC:122:VAL:HG21	1.69	0.74
6:Am:278:THR:CG2	10:Az:21:ALA:HB1	2.17	0.74
8:At:145:TRP:CD1	6:WJ:164:LEU:HB2	2.22	0.74
6:UI:73:MET:HE1	6:UI:99:ARG:CD	2.17	0.74
6:UJ:73:MET:HE1	6:UJ:99:ARG:CD	2.17	0.74
6:WT:199:SER:HA	6:WT:205:LEU:HD23	1.69	0.74
2:p:117:ARG:HH12	2:p:145:GLY:HA3	1.51	0.74
4:ZN:401:ASN:O	4:ZN:402:LEU:C	2.31	0.74
6:Ae:372:ILE:HB	10:A2:4:ILE:HG12	1.68	0.74
6:UL:94:HIS:CB	6:UL:146:THR:HG21	2.17	0.74
6:WQ:199:SER:HA	6:WQ:205:LEU:HD23	1.69	0.74
6:WV:197:LEU:HD12	6:WW:175:SER:OG	1.88	0.74
2:r:80:GLN:OE1	3:AN:109:ASP:O	2.04	0.74
9:Au:144:GLU:N	6:WO:164:LEU:O	2.21	0.74
6:WN:197:LEU:HD12	6:WO:175:SER:CB	2.17	0.74
6:WR:199:SER:HA	6:WR:205:LEU:HD23	1.69	0.74
6:WS:199:SER:HA	6:WS:205:LEU:HD23	1.69	0.74
2:n:117:ARG:HH12	2:n:145:GLY:HA3	1.51	0.74
3:5:55:GLN:O	5:AD:138:ALA:HB2	1.86	0.74
4:Za:18:ASP:OD2	4:Zf:2:SER:N	2.21	0.74
5:AA:248:LEU:O	5:AA:249:SER:C	2.28	0.74
6:UP:73:MET:HE1	6:UP:99:ARG:CD	2.17	0.74
6:WJ:199:SER:HA	6:WJ:205:LEU:HD23	1.69	0.74
6:WV:199:SER:HA	6:WV:205:LEU:HD23	1.69	0.74
3:0:70:THR:HG21	5:AD:71:LEU:HB2	1.70	0.74
3:9:37:GLN:HE21	3:9:79:ARG:HH12	1.34	0.74
8:At:23:VAL:HA	8:At:150:LEU:HD21	1.69	0.74
10:Az:75:MET:HE1	10:A5:88:VAL:HG22	1.69	0.74
10:A4:14:LEU:HD11	6:BX:370:ARG:NH2	2.02	0.74
6:UO:139:GLU:OE1	6:UO:142:ARG:NH2	2.20	0.74
6:WB:163:SER:HB3	6:WB:169:GLN:HG2	1.70	0.74
6:WH:199:SER:HA	6:WH:205:LEU:HD23	1.69	0.74
2:o:117:ARG:HH12	2:o:145:GLY:HA3	1.51	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ZE:248:SER:HB2	4:ZJ:402:LEU:CD2	2.18	0.74
4:ZY:71:ARG:NH1	4:ZY:74:ASP:OD1	2.20	0.74
5:AA:54:ARG:NH1	11:A6:93:PRO:O	2.21	0.74
3:AF:44:LEU:CD2	12:BA:78:TYR:HB2	2.16	0.74
6:AS:295:SER:HB2	11:A0:65:LEU:HB2	1.69	0.74
6:UN:94:HIS:CB	6:UN:146:THR:HG21	2.17	0.74
6:WK:199:SER:HA	6:WK:205:LEU:HD23	1.69	0.74
6:WN:181:GLU:HB2	6:WN:184:ARG:CG	2.07	0.74
3:ZC:98:LYS:HE3	4:ZN:44:ALA:HB2	1.69	0.73
3:ZD:233:MET:HE3	4:ZI:388:THR:HG23	1.70	0.73
4:ZP:270:ASN:HD22	4:ZV:192:ASN:HA	1.51	0.73
4:ZW:130:GLN:OE1	4:ZW:130:GLN:N	2.21	0.73
3:AJ:100:GLN:NE2	3:AJ:181:ASP:OD2	2.21	0.73
9:Au:148:ALA:HA	6:WP:164:LEU:HD13	1.69	0.73
6:WC:197:LEU:HD12	6:WD:175:SER:OG	1.88	0.73
6:WK:143:THR:HG1	6:WL:156:HIS:CE1	2.04	0.73
1:Q:107:ASP:CG	4:ZF:133:ASN:HB2	2.12	0.73
5:AC:84:GLN:OE1	3:AN:48:THR:CG2	2.35	0.73
3:AF:73:ARG:HD2	12:BA:78:TYR:CZ	2.24	0.73
9:Ax:160:GLN:HG2	6:WE:166:VAL:HG21	1.69	0.73
10:A3:94:ALA:O	10:A3:98:GLU:HG3	1.88	0.73
10:A4:7:ILE:HB	6:BX:278:THR:HG21	1.70	0.73
6:UJ:94:HIS:CB	6:UJ:146:THR:HG21	2.17	0.73
6:UK:103:GLN:NE2	6:WF:182:PRO:HB3	2.01	0.73
6:UN:73:MET:CE	6:UN:99:ARG:CD	2.66	0.73
4:ZO:235:ASN:HD22	4:ZU:189:SER:HB2	1.53	0.73
5:AA:72:ASP:HB3	3:AL:9:LYS:NZ	2.02	0.73
5:AB:224:ALA:CA	3:AG:253:MET:CE	2.66	0.73
10:Az:89:ARG:NH1	10:A5:102:MET:SD	2.62	0.73
6:UI:94:HIS:CB	6:UI:146:THR:HG21	2.17	0.73
6:UL:73:MET:CE	6:UL:99:ARG:CD	2.66	0.73
6:UL:139:GLU:OE1	6:UL:142:ARG:NH2	2.20	0.73
6:UM:94:HIS:CB	6:UM:146:THR:HG21	2.17	0.73
6:UN:139:GLU:OE1	6:UN:142:ARG:NH2	2.20	0.73
6:WB:197:LEU:HD12	6:WC:175:SER:CB	2.18	0.73
6:WU:199:SER:HA	6:WU:205:LEU:HD23	1.69	0.73
5:AE:228:GLU:HB3	3:AK:258:THR:HG22	1.68	0.73
6:WA:158:ALA:HB3	6:WW:200:SER:O	1.87	0.73
6:WB:181:GLU:HB2	6:WB:184:ARG:CG	2.07	0.73
12:BE:6:ILE:HD13	12:BE:122:VAL:HG21	1.71	0.73
1:Q:107:ASP:CG	4:ZF:133:ASN:CB	2.60	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:7:226:VAL:HG11	3:ZC:242:ILE:HD13	1.71	0.73
6:Ag:297:GLN:CB	11:A8:73:ILE:CD1	2.56	0.73
7:Ar:29:LEU:HB2	7:As:52:ILE:HG13	1.71	0.73
6:UO:73:MET:HE1	6:UO:99:ARG:CD	2.17	0.73
6:WR:200:SER:OG	6:WS:175:SER:HB2	1.88	0.73
12:BC:79:GLU:HG2	12:BC:82:ASN:HB2	1.69	0.73
3:4:55:GLN:O	5:AC:138:ALA:HB2	1.87	0.73
6:AP:359:GLN:NE2	12:BA:55:PRO:HG3	2.04	0.73
8:At:144:LEU:CB	6:WJ:164:LEU:HD21	2.17	0.73
9:Aw:140:ARG:O	6:WW:167:ARG:HD2	1.87	0.73
9:Ax:144:GLU:HG2	6:WD:164:LEU:O	1.88	0.73
6:UK:73:MET:CE	6:UK:99:ARG:CD	2.66	0.73
6:WK:193:ALA:CB	6:WL:213:VAL:HG21	2.13	0.73
6:WT:200:SER:OG	6:WU:175:SER:HB2	1.88	0.73
3:0:180:ASN:HD22	3:AJ:122:VAL:HG23	1.53	0.73
3:ZC:218:TYR:OH	4:ZN:53:LYS:HD2	1.87	0.73
6:Am:278:THR:CG2	10:Az:21:ALA:CB	2.64	0.73
6:UM:73:MET:HE1	6:UM:99:ARG:CD	2.17	0.73
6:UP:94:HIS:CB	6:UP:146:THR:HG21	2.17	0.73
3:AF:6:TRP:HE1	12:BA:77:VAL:CG1	2.02	0.73
7:Ab:67:PRO:HB3	6:WP:123:ILE:HG23	1.70	0.73
6:UK:139:GLU:OE1	6:UK:142:ARG:NH2	2.20	0.73
6:UN:73:MET:HE1	6:UN:99:ARG:CD	2.17	0.73
6:UP:73:MET:CE	6:UP:99:ARG:CD	2.66	0.73
3:5:122:VAL:O	3:ZA:180:ASN:ND2	2.20	0.73
4:ZS:77:ILE:HG22	4:ZS:356:LEU:HD22	1.71	0.73
3:AH:98:LYS:HD2	3:AH:215:TYR:CE2	2.23	0.73
11:A8:42:ASP:OD2	11:A8:43:ILE:N	2.22	0.73
12:BC:3:LEU:HB2	12:BC:126:MET:HE3	1.70	0.73
2:x:54:GLN:OE1	3:AG:168:VAL:CG1	2.35	0.73
3:ZB:98:LYS:HE3	4:ZM:44:ALA:HB2	1.69	0.73
3:AK:73:ARG:HD3	12:BF:78:TYR:CE2	2.23	0.73
6:UP:139:GLU:OE1	6:UP:142:ARG:NH2	2.20	0.73
6:WK:132:TYR:HB2	6:WL:126:PHE:CZ	2.23	0.73
6:UI:139:GLU:OE1	6:UI:142:ARG:NH2	2.20	0.72
6:WM:200:SER:O	6:WN:158:ALA:CB	2.37	0.72
3:ZC:122:VAL:O	4:ZH:322:ASN:ND2	2.22	0.72
4:ZS:77:ILE:HD11	4:ZS:96:ARG:HD3	1.70	0.72
4:ZY:285:LYS:O	4:ZY:306:ASN:ND2	2.20	0.72
3:AF:44:LEU:CD2	12:BA:78:TYR:CB	2.67	0.72
6:UM:73:MET:CE	6:UM:99:ARG:CD	2.67	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WM:199:SER:HA	6:WM:205:LEU:HD23	1.69	0.72
3:AL:98:LYS:HD2	3:AL:213:LEU:HD12	1.69	0.72
6:UI:73:MET:CE	6:UI:99:ARG:CD	2.66	0.72
6:WS:181:GLU:HB2	6:WS:184:ARG:CG	2.07	0.72
3:ZC:218:TYR:OH	4:ZN:53:LYS:CD	2.36	0.72
5:AC:16:LEU:HD23	3:AH:253:MET:HE1	1.71	0.72
6:Aj:372:ILE:HD13	10:A1:11:ILE:CG2	2.16	0.72
6:WC:197:LEU:HD12	6:WD:175:SER:CB	2.18	0.72
4:Zd:118:GLY:HA2	4:Zd:316:VAL:HG12	1.71	0.72
6:WL:199:SER:HA	6:WL:205:LEU:HD23	1.69	0.72
6:WU:181:GLU:HB2	6:WU:184:ARG:CG	2.07	0.72
3:ZD:27:ALA:O	4:ZI:52:VAL:CG2	2.37	0.72
6:Ae:372:ILE:CG2	10:A2:4:ILE:HG13	2.20	0.72
3:ZC:186:SER:O	4:ZH:45:GLY:O	2.07	0.72
6:WM:197:LEU:HA	6:WN:175:SER:OG	1.89	0.72
5:AD:26:LEU:CD1	3:AI:242:ILE:CG2	2.67	0.72
3:AF:9:LYS:HE3	12:BF:100:GLY:CA	2.20	0.72
6:Aj:372:ILE:CB	10:A1:11:ILE:CG2	2.67	0.72
5:AD:26:LEU:HD12	3:AI:242:ILE:HG21	1.70	0.72
6:Aj:372:ILE:CB	10:A1:11:ILE:HG21	2.18	0.72
11:A7:46:ALA:O	11:A7:50:LYS:HG3	1.90	0.72
6:UO:73:MET:CE	6:UO:99:ARG:CD	2.66	0.72
6:WG:181:GLU:HB2	6:WG:184:ARG:CG	2.07	0.72
3:ZC:28:ASN:OD1	4:ZH:52:VAL:CG2	2.36	0.72
5:AA:220:MET:HE1	3:AF:246:ALA:HB2	1.71	0.72
3:AG:6:TRP:CZ2	12:BB:79:GLU:OE2	2.43	0.72
9:Aw:152:ARG:NH2	6:WC:165:PHE:CD2	2.52	0.72
12:BB:6:ILE:HG21	12:BB:122:VAL:HG21	1.72	0.72
6:WD:197:LEU:HA	6:WE:175:SER:OG	1.89	0.72
5:AA:26:LEU:HD13	3:AF:242:ILE:HG22	1.71	0.71
3:AK:73:ARG:HD3	12:BF:78:TYR:CZ	2.25	0.71
6:UJ:73:MET:CE	6:UJ:99:ARG:CD	2.66	0.71
6:UJ:98:LEU:CD1	6:UJ:146:THR:OG1	2.38	0.71
6:WV:181:GLU:HB2	6:WV:184:ARG:CG	2.07	0.71
2:j:80:GLN:CD	3:AJ:174:ASN:HD21	1.98	0.71
3:6:218:TYR:OH	4:ZH:53:LYS:HG3	1.90	0.71
3:8:42:GLU:HB2	3:8:75:VAL:HG23	1.72	0.71
5:AC:104:ASN:ND2	3:AH:38:ARG:HH21	1.88	0.71
3:AJ:62:LEU:HD23	12:BF:83:PRO:CD	2.20	0.71
6:Ao:278:THR:CG2	10:Az:7:ILE:CG2	2.53	0.71
8:At:144:LEU:HB3	6:WJ:164:LEU:HD21	1.72	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6:235:GLN:HG2	3:ZC:5:LEU:HD21	1.71	0.71
6:AT:294:ARG:HG3	11:A0:72:HIS:CE1	2.25	0.71
6:UL:98:LEU:CD1	6:UL:146:THR:OG1	2.39	0.71
6:UM:98:LEU:CD1	6:UM:146:THR:OG1	2.38	0.71
6:WE:181:GLU:HB2	6:WE:184:ARG:CG	2.07	0.71
6:WV:197:LEU:HD12	6:WW:175:SER:HB3	1.71	0.71
1:F:102:THR:OG1	1:H:232:MET:HE2	1.91	0.71
5:AA:202:MET:HE1	3:AL:73:ARG:NH2	2.01	0.71
9:Aw:152:ARG:NH2	6:WC:165:PHE:HD2	1.88	0.71
10:A5:76:GLN:HE21	12:BA:123:LYS:HB2	1.54	0.71
6:UJ:139:GLU:OE1	6:UJ:142:ARG:NH2	2.20	0.71
6:UN:126:PHE:CD1	6:UN:130:VAL:HG21	2.26	0.71
1:M:102:THR:OG1	1:O:232:MET:HE2	1.91	0.71
2:s:51:GLN:HE22	3:AH:172:GLN:NE2	1.88	0.71
3:9:226:VAL:HG11	3:ZE:242:ILE:HD13	1.72	0.71
3:ZE:248:SER:HB2	4:ZJ:402:LEU:HD22	1.73	0.71
4:ZP:324:GLU:OE1	4:ZP:324:GLU:N	2.23	0.71
4:Zc:2:SER:OG	4:Zc:3:PHE:N	2.21	0.71
6:Ae:374:HIS:HB2	10:A2:4:ILE:CD1	2.20	0.71
6:Am:278:THR:HG21	10:Az:21:ALA:HB3	1.71	0.71
9:Ay:139:LEU:O	9:Ay:142:THR:HG22	1.89	0.71
6:UI:62:ASP:OD2	6:WA:184:ARG:NH2	2.24	0.71
6:UI:98:LEU:CD1	6:UI:146:THR:OG1	2.38	0.71
6:WT:181:GLU:HB2	6:WT:184:ARG:CG	2.07	0.71
1:G:102:THR:OG1	1:I:232:MET:HE2	1.91	0.71
1:J:102:THR:OG1	1:L:232:MET:HE2	1.91	0.71
1:B:102:THR:OG1	1:D:232:MET:HE2	1.91	0.71
1:H:102:THR:OG1	1:J:232:MET:HE2	1.91	0.71
1:I:102:THR:OG1	1:K:232:MET:HE2	1.91	0.71
1:Q:102:THR:OG1	1:S:232:MET:HE2	1.91	0.71
2:o:51:GLN:HE22	3:AI:139:ALA:CB	2.04	0.71
3:8:208:LEU:O	3:8:210:GLY:N	2.23	0.71
3:AF:44:LEU:HD21	12:BA:78:TYR:CD2	2.26	0.71
6:UP:126:PHE:CD1	6:UP:130:VAL:HG21	2.26	0.71
6:WH:193:ALA:HB1	6:WI:213:VAL:CG1	2.18	0.71
3:AF:62:LEU:CD2	12:BB:83:PRO:CD	2.68	0.71
6:AX:361:ASN:ND2	11:A9:78:VAL:HG12	2.05	0.71
7:As:48:THR:OG1	9:Ax:206:ALA:O	2.08	0.71
10:A5:11:ILE:CG2	6:BR:372:ILE:HG21	2.21	0.71
1:E:102:THR:OG1	1:G:232:MET:HE2	1.91	0.71
1:G:131:SER:O	1:I:223:GLN:NE2	2.24	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:131:SER:O	1:M:223:GLN:NE2	2.24	0.71
1:P:102:THR:OG1	1:R:232:MET:HE2	1.91	0.71
1:X:102:THR:OG1	1:Z:232:MET:HE2	1.91	0.71
3:7:79:ARG:NH2	3:7:184:LEU:O	2.23	0.71
3:ZC:19:MET:HE1	4:ZH:391:THR:CG2	2.21	0.71
3:AK:45:LEU:HD23	12:BF:90:TYR:CZ	2.25	0.71
6:UK:126:PHE:CD1	6:UK:130:VAL:HG21	2.26	0.71
6:UN:98:LEU:CD1	6:UN:146:THR:OG1	2.39	0.71
6:WD:181:GLU:HB2	6:WD:184:ARG:CG	2.07	0.71
1:A:232:MET:HE2	1:Y:102:THR:OG1	1.91	0.71
1:B:223:GLN:NE2	1:Z:131:SER:O	2.24	0.71
1:C:102:THR:OG1	1:E:232:MET:HE2	1.91	0.71
1:N:131:SER:O	1:P:223:GLN:NE2	2.24	0.71
1:T:102:THR:OG1	1:V:232:MET:HE2	1.91	0.71
1:V:131:SER:O	1:X:223:GLN:NE2	2.24	0.71
3:ZC:240:TYR:CE2	4:ZH:399:LEU:CD1	2.61	0.71
6:AS:294:ARG:HD3	11:A0:68:THR:HG22	1.73	0.71
7:Aq:39:GLN:HE21	7:Aq:49:LEU:HD12	1.56	0.71
6:UL:103:GLN:HG2	6:WH:182:PRO:HB3	1.72	0.71
6:WK:200:SER:HA	6:WL:173:SER:OG	1.91	0.71
1:C:131:SER:O	1:E:223:GLN:NE2	2.24	0.70
1:D:131:SER:O	1:F:223:GLN:NE2	2.24	0.70
1:J:131:SER:O	1:L:223:GLN:NE2	2.24	0.70
1:N:102:THR:OG1	1:P:232:MET:HE2	1.91	0.70
1:R:131:SER:O	1:T:223:GLN:NE2	2.24	0.70
1:U:102:THR:OG1	1:W:232:MET:HE2	1.91	0.70
4:ZH:165:PRO:HG2	4:ZH:201:VAL:HG13	1.71	0.70
5:AB:26:LEU:HD22	3:AG:242:ILE:HG21	1.71	0.70
6:Al:365:ASN:CB	11:A7:72:HIS:ND1	2.40	0.70
8:At:187:ALA:O	8:At:188:LEU:C	2.34	0.70
6:UK:98:LEU:CD1	6:UK:146:THR:OG1	2.39	0.70
6:UM:126:PHE:CD1	6:UM:130:VAL:HG21	2.26	0.70
6:UP:98:LEU:CD1	6:UP:146:THR:OG1	2.38	0.70
6:WD:190:GLN:HG3	6:WE:217:GLY:HA3	1.72	0.70
6:WE:128:GLU:HB3	6:WF:126:PHE:CE2	2.25	0.70
6:WF:181:GLU:HB2	6:WF:184:ARG:CG	2.07	0.70
1:A:223:GLN:NE2	1:Y:131:SER:O	2.24	0.70
1:O:131:SER:O	1:Q:223:GLN:NE2	2.24	0.70
1:S:102:THR:OG1	1:U:232:MET:HE2	1.91	0.70
4:ZZ:157:ASN:HB3	4:ZZ:271:THR:HG21	1.72	0.70
4:Zg:110:ASN:HB2	4:Zg:114:MET:HB2	1.73	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UK:126:PHE:O	6:UK:130:VAL:CG2	2.40	0.70
6:WR:200:SER:O	6:WS:158:ALA:HB3	1.90	0.70
1:K:102:THR:OG1	1:M:232:MET:HE2	1.91	0.70
1:L:102:THR:OG1	1:N:232:MET:HE2	1.91	0.70
1:R:102:THR:OG1	1:T:232:MET:HE2	1.91	0.70
3:ZB:122:VAL:O	4:ZG:322:ASN:ND2	2.23	0.70
4:ZG:45:GLY:O	4:ZG:46:SER:HB3	1.90	0.70
6:AS:294:ARG:HD2	11:A0:68:THR:HG21	1.71	0.70
6:UO:126:PHE:CD1	6:UO:130:VAL:HG21	2.26	0.70
1:D:102:THR:OG1	1:F:232:MET:HE2	1.91	0.70
1:S:131:SER:O	1:U:223:GLN:NE2	2.24	0.70
1:U:131:SER:O	1:W:223:GLN:NE2	2.24	0.70
4:ZY:42:MET:HG2	4:ZY:53:LYS:HG2	1.73	0.70
5:AE:58:THR:OG1	3:AJ:50:ARG:NH2	2.24	0.70
3:AJ:128:LEU:HD12	3:AJ:140:ILE:HD13	1.72	0.70
7:As:84:LEU:HD21	9:Ay:185:ILE:HG23	1.72	0.70
6:UJ:126:PHE:O	6:UJ:130:VAL:CG2	2.39	0.70
6:WE:197:LEU:HD12	6:WF:175:SER:CB	2.21	0.70
6:WM:139:GLU:HB3	6:WN:154:ARG:NH2	2.06	0.70
1:F:131:SER:O	1:H:223:GLN:NE2	2.24	0.70
1:H:131:SER:O	1:J:223:GLN:NE2	2.24	0.70
1:Q:131:SER:O	1:S:223:GLN:NE2	2.24	0.70
1:W:131:SER:O	1:Y:223:GLN:NE2	2.24	0.70
2:f:110:MET:O	2:g:84:VAL:CG2	2.40	0.70
3:9:238:ARG:NH2	4:ZF:397:ASN:HB2	2.05	0.70
4:Zc:159:ASN:ND2	4:Zc:161:THR:OG1	2.24	0.70
5:AB:224:ALA:N	3:AG:253:MET:CE	2.54	0.70
6:UI:126:PHE:O	6:UI:130:VAL:CG2	2.40	0.70
6:WA:200:SER:O	6:WB:158:ALA:CB	2.40	0.70
1:A:102:THR:OG1	1:C:232:MET:HE2	1.91	0.70
1:V:102:THR:OG1	1:X:232:MET:HE2	1.91	0.70
2:a:84:VAL:CG2	2:z:110:MET:O	2.40	0.70
2:c:110:MET:O	2:d:84:VAL:CG2	2.40	0.70
2:v:110:MET:O	2:w:84:VAL:CG2	2.40	0.70
3:AG:6:TRP:CD1	12:BB:77:VAL:HG13	2.25	0.70
6:Am:294:ARG:HG2	11:A7:71:HIS:HB2	1.74	0.70
9:Ax:141:GLN:HA	6:WD:165:PHE:CE2	2.26	0.70
9:Ax:152:ARG:NH1	6:WF:167:ARG:C	2.49	0.70
6:WB:200:SER:O	6:WC:158:ALA:HB2	1.91	0.70
1:W:102:THR:OG1	1:Y:232:MET:HE2	1.91	0.70
2:i:110:MET:O	2:j:84:VAL:CG2	2.40	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s:110:MET:O	2:t:84:VAL:CG2	2.40	0.70
3:9:70:THR:HG22	3:9:71:GLY:H	1.57	0.70
3:ZE:233:MET:HE3	4:ZJ:391:THR:OG1	1.91	0.70
4:ZR:160:SER:HA	4:ZR:268:GLN:HE21	1.55	0.70
3:AG:73:ARG:CD	12:BB:78:TYR:CZ	2.74	0.70
6:UI:126:PHE:CD1	6:UI:130:VAL:HG21	2.26	0.70
6:UO:98:LEU:CD1	6:UO:146:THR:OG1	2.38	0.70
6:WP:193:ALA:HB1	6:WQ:213:VAL:HG11	1.74	0.70
1:A:131:SER:O	1:C:223:GLN:NE2	2.24	0.70
1:B:131:SER:O	1:D:223:GLN:NE2	2.24	0.70
1:M:131:SER:O	1:O:223:GLN:NE2	2.24	0.70
2:l:110:MET:O	2:m:84:VAL:CG2	2.40	0.70
3:ZE:42:GLU:OE2	3:ZE:73:ARG:NH1	2.24	0.70
4:ZG:45:GLY:O	4:ZG:46:SER:CB	2.38	0.70
3:AI:77:THR:HG23	3:AN:66:LEU:HB2	1.74	0.70
7:As:13:ALA:HB1	9:Ay:195:ILE:HD11	1.73	0.70
8:At:182:ASN:HB3	8:At:239:PHE:CZ	2.26	0.70
1:L:131:SER:O	1:N:223:GLN:NE2	2.24	0.70
2:j:110:MET:O	2:k:84:VAL:CG2	2.40	0.70
2:m:110:MET:O	2:n:84:VAL:CG2	2.40	0.70
2:p:110:MET:O	2:q:84:VAL:CG2	2.40	0.70
2:w:110:MET:O	2:x:84:VAL:CG2	2.40	0.70
3:0:51:GLN:O	3:0:52:PRO:C	2.35	0.70
3:ZE:238:ARG:NH2	4:ZK:397:ASN:HB2	2.07	0.70
3:AK:6:TRP:NE1	12:BF:77:VAL:HG11	2.06	0.70
6:An:278:THR:HG21	10:Az:14:LEU:HB3	1.72	0.70
9:Ax:143:ARG:HA	6:WD:165:PHE:CB	2.22	0.70
6:UI:167:ARG:HH22	6:WW:188:GLU:HB3	1.57	0.70
6:UM:139:GLU:CD	6:UM:142:ARG:HH21	2.00	0.70
6:UN:126:PHE:O	6:UN:130:VAL:CG2	2.40	0.70
1:O:102:THR:OG1	1:Q:232:MET:HE2	1.91	0.70
2:k:78:ASN:CB	3:AJ:141:THR:OG1	2.40	0.70
2:r:80:GLN:OE1	3:AN:110:GLY:HA3	1.92	0.70
3:ZA:42:GLU:HG2	3:ZA:75:VAL:HG23	1.73	0.70
4:ZS:390:LYS:HE2	4:ZS:394:GLN:HE22	1.57	0.70
6:AV:357:SER:CB	6:BO:318:ASN:HD21	2.02	0.70
9:Aw:140:ARG:O	6:WW:167:ARG:CD	2.40	0.70
1:I:131:SER:O	1:K:223:GLN:NE2	2.24	0.69
1:X:131:SER:O	1:Z:223:GLN:NE2	2.24	0.69
2:b:220:THR:OG1	2:c:98:ARG:HD2	1.92	0.69
2:h:220:THR:OG1	2:i:98:ARG:HD2	1.92	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:o:110:MET:O	2:p:84:VAL:CG2	2.40	0.69
3:4:86:LEU:HD12	4:ZF:42:MET:HE2	1.74	0.69
3:ZB:235:GLN:NE2	4:ZH:3:PHE:HD2	1.82	0.69
5:AE:180:ARG:HG3	5:AE:180:ARG:HH11	1.56	0.69
1:B:232:MET:HE2	1:Z:102:THR:OG1	1.91	0.69
2:g:110:MET:O	2:h:84:VAL:CG2	2.40	0.69
2:g:220:THR:OG1	2:h:98:ARG:HD2	1.92	0.69
5:AC:71:LEU:HD23	3:AN:70:THR:CG2	2.22	0.69
5:AD:221:ILE:HG23	3:AJ:251:ASP:OD2	1.90	0.69
6:UJ:126:PHE:CD1	6:UJ:130:VAL:HG21	2.26	0.69
6:UL:62:ASP:OD2	6:WG:184:ARG:NH2	2.25	0.69
6:UL:126:PHE:O	6:UL:130:VAL:CG2	2.39	0.69
6:UL:126:PHE:CD1	6:UL:130:VAL:HG21	2.26	0.69
6:WM:193:ALA:HB1	6:WN:213:VAL:CG1	2.22	0.69
6:WS:121:PHE:CE1	6:WT:120:LYS:NZ	2.55	0.69
1:E:131:SER:O	1:G:223:GLN:NE2	2.24	0.69
1:P:131:SER:O	1:R:223:GLN:NE2	2.24	0.69
2:c:220:THR:OG1	2:d:98:ARG:HD2	1.92	0.69
2:v:220:THR:OG1	2:w:98:ARG:HD2	1.92	0.69
6:Ag:295:SER:HB3	11:A8:72:HIS:HB3	1.72	0.69
11:A9:91:ASP:OD2	11:A9:104:ARG:NH1	2.25	0.69
6:WR:112:GLY:HA2	6:WR:135:ALA:CA	2.16	0.69
2:a:220:THR:OG1	2:b:98:ARG:HD2	1.93	0.69
2:i:220:THR:OG1	2:j:98:ARG:HD2	1.93	0.69
2:t:110:MET:O	2:u:84:VAL:CG2	2.40	0.69
5:AB:116:GLN:HE21	3:AG:42:GLU:CD	1.98	0.69
6:WA:175:SER:OG	6:WW:197:LEU:HA	1.93	0.69
2:d:110:MET:O	2:e:84:VAL:CG2	2.40	0.69
2:n:220:THR:OG1	2:o:98:ARG:HD2	1.93	0.69
2:o:220:THR:OG1	2:p:98:ARG:HD2	1.93	0.69
2:t:78:ASN:CB	3:AH:168:VAL:HG13	2.21	0.69
2:u:220:THR:OG1	2:v:98:ARG:HD2	1.93	0.69
2:w:220:THR:OG1	2:x:98:ARG:HD2	1.92	0.69
3:2:208:LEU:O	3:AL:162:GLN:NE2	2.26	0.69
3:ZC:185:GLU:OE1	4:ZH:46:SER:CB	2.40	0.69
5:AB:153:ASN:HA	3:AM:196:GLN:HG2	1.75	0.69
3:AG:6:TRP:CE2	12:BB:77:VAL:HG13	2.17	0.69
8:At:145:TRP:HE1	6:WJ:164:LEU:CB	1.99	0.69
9:Ax:160:GLN:CG	6:WE:166:VAL:HG21	2.23	0.69
6:UL:126:PHE:O	6:UL:130:VAL:CB	2.41	0.69
1:T:131:SER:O	1:V:223:GLN:NE2	2.24	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8:227:ALA:HB1	4:ZJ:399:LEU:CD2	2.22	0.69
6:Ad:372:ILE:HB	10:A2:11:ILE:HG22	1.74	0.69
8:At:188:LEU:HB3	8:At:189:PRO:CD	2.23	0.69
8:At:248:PHE:HB2	6:WK:164:LEU:HD12	1.73	0.69
9:Ay:143:ARG:HB3	9:Ay:146:ASP:OD2	1.92	0.69
6:UI:126:PHE:O	6:UI:130:VAL:CB	2.41	0.69
6:UJ:126:PHE:O	6:UJ:130:VAL:CB	2.41	0.69
6:UN:126:PHE:O	6:UN:130:VAL:CB	2.41	0.69
6:UN:139:GLU:CD	6:UN:142:ARG:HH21	2.00	0.69
6:UO:139:GLU:CD	6:UO:142:ARG:HH21	2.00	0.69
6:UP:139:GLU:CD	6:UP:142:ARG:HH21	2.00	0.69
2:m:220:THR:OG1	2:n:98:ARG:HD2	1.93	0.69
2:q:110:MET:O	2:r:84:VAL:CG2	2.40	0.69
4:ZM:156:ILE:HD12	4:ZM:276:ILE:HG12	1.75	0.69
4:ZO:111:MET:HA	4:ZO:111:MET:HE3	1.75	0.69
9:Ax:152:ARG:HH12	6:WF:167:ARG:C	2.00	0.69
10:A2:77:LYS:NZ	11:A8:13:GLN:OE1	2.26	0.69
6:UO:126:PHE:O	6:UO:130:VAL:CG2	2.40	0.69
2:a:110:MET:O	2:b:84:VAL:CG2	2.40	0.69
2:d:220:THR:OG1	2:e:98:ARG:HD2	1.92	0.69
2:f:220:THR:OG1	2:g:98:ARG:HD2	1.92	0.69
2:j:220:THR:OG1	2:k:98:ARG:HD2	1.92	0.69
2:p:220:THR:OG1	2:q:98:ARG:HD2	1.93	0.69
2:q:220:THR:OG1	2:r:98:ARG:HD2	1.93	0.69
4:Zb:387:GLN:NE2	4:Zh:400:VAL:O	2.26	0.69
5:AA:173:ARG:NH1	3:AF:46:TYR:OH	2.26	0.69
6:AS:297:GLN:HE22	11:A0:76:GLN:N	1.91	0.69
7:Ar:13:ALA:HB1	9:Ax:195:ILE:HD11	1.75	0.69
9:Aw:162:PRO:CD	6:WA:167:ARG:HH21	2.06	0.69
11:A7:36:PRO:HG2	6:BJ:311:GLY:H	1.56	0.69
6:UJ:139:GLU:CD	6:UJ:142:ARG:HH21	2.00	0.69
6:UM:126:PHE:O	6:UM:130:VAL:CB	2.41	0.69
6:WL:197:LEU:HD13	6:WM:175:SER:OG	1.91	0.69
6:WN:200:SER:CA	6:WO:173:SER:OG	2.41	0.69
2:a:98:ARG:HD2	2:z:220:THR:OG1	1.92	0.69
2:o:80:GLN:OE1	3:AI:171:GLY:HA2	1.93	0.69
2:t:220:THR:OG1	2:u:98:ARG:HD2	1.93	0.69
2:x:220:THR:OG1	2:y:98:ARG:HD2	1.92	0.69
5:AD:170:GLU:OE2	5:AD:189:ARG:NH1	2.25	0.69
5:AE:231:MET:CE	3:AJ:257:LEU:HB2	2.23	0.69
6:UI:139:GLU:CD	6:UI:142:ARG:HH21	2.00	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WA:213:VAL:HG11	6:WW:193:ALA:HB1	1.73	0.69
2:j:159:GLN:OE1	2:k:44:GLY:O	2.11	0.69
2:n:110:MET:O	2:o:84:VAL:CG2	2.40	0.69
5:AC:16:LEU:HD23	3:AH:253:MET:CE	2.22	0.69
3:AF:62:LEU:CG	12:BB:84:LEU:HD11	2.23	0.69
9:Aw:153:LEU:HD22	9:Ax:99:PHE:HB3	1.74	0.69
9:Ax:153:LEU:CD2	6:WG:165:PHE:CZ	2.75	0.69
6:UP:126:PHE:O	6:UP:130:VAL:CG2	2.40	0.69
6:WA:128:GLU:HG3	6:WB:126:PHE:HE2	1.54	0.69
2:k:159:GLN:OE1	2:l:44:GLY:O	2.11	0.68
2:n:159:GLN:OE1	2:o:44:GLY:O	2.11	0.68
3:ZA:145:ASN:HA	4:ZF:352:ASN:HD22	1.58	0.68
3:ZE:240:TYR:HE2	4:ZJ:399:LEU:CD1	2.06	0.68
4:ZF:5:GLN:NE2	4:ZF:49:GLY:O	2.27	0.68
4:ZJ:180:LYS:HD3	4:ZJ:274:ASN:HD22	1.57	0.68
4:ZK:107:ASN:ND2	4:ZK:138:THR:OG1	2.26	0.68
4:ZQ:380:ARG:NH2	4:ZW:393:ASP:OD1	2.26	0.68
4:ZR:165:PRO:HG2	4:ZR:201:VAL:HG13	1.73	0.68
4:Zc:238:LEU:HD21	4:Zc:242:GLY:HA3	1.73	0.68
5:AE:173:ARG:NH1	3:AJ:46:TYR:HE1	1.91	0.68
6:Ae:372:ILE:CG2	10:A2:4:ILE:CG1	2.70	0.68
6:UM:126:PHE:O	6:UM:130:VAL:CG2	2.40	0.68
6:UO:126:PHE:O	6:UO:130:VAL:CB	2.41	0.68
6:WK:197:LEU:HA	6:WL:175:SER:HB2	1.74	0.68
6:WP:190:GLN:HG2	6:WQ:217:GLY:HA3	1.75	0.68
2:g:159:GLN:OE1	2:h:44:GLY:O	2.11	0.68
2:l:220:THR:OG1	2:m:98:ARG:HD2	1.93	0.68
2:o:159:GLN:OE1	2:p:44:GLY:O	2.11	0.68
2:r:220:THR:OG1	2:s:98:ARG:HD2	1.93	0.68
4:ZY:27:SER:OG	4:Zd:381:ASN:ND2	2.26	0.68
4:Ze:60:ASP:O	4:Ze:365:ASN:ND2	2.26	0.68
5:AC:71:LEU:HB2	3:AN:70:THR:HG23	1.75	0.68
3:AF:6:TRP:HE1	12:BA:77:VAL:HG13	1.54	0.68
6:Al:294:ARG:HD3	11:A7:68:THR:CG2	2.23	0.68
6:WD:196:HIS:HB3	6:WE:211:THR:HG21	1.75	0.68
6:WJ:128:GLU:HG2	6:WK:126:PHE:CD2	2.15	0.68
2:f:159:GLN:OE1	2:g:44:GLY:O	2.11	0.68
2:x:110:MET:O	2:y:84:VAL:CG2	2.40	0.68
3:ZD:28:ASN:OD1	4:ZI:52:VAL:HG22	1.93	0.68
4:Zb:238:LEU:HD21	4:Zb:242:GLY:HA3	1.75	0.68
5:AD:249:SER:OG	12:BD:117:GLU:OE1	2.11	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:98:LYS:HD2	3:AH:215:TYR:HE2	1.58	0.68
3:AJ:2:ILE:CD1	12:BE:32:ASP:OD1	2.41	0.68
10:A5:7:ILE:HG22	6:BR:278:THR:HG21	1.73	0.68
2:k:110:MET:O	2:l:84:VAL:CG2	2.40	0.68
3:0:42:GLU:HG3	3:AJ:190:ASN:HB2	1.75	0.68
3:ZD:233:MET:CE	4:ZI:388:THR:OG1	2.41	0.68
5:AB:221:ILE:HG23	3:AH:251:ASP:OD2	1.89	0.68
6:UL:139:GLU:CD	6:UL:142:ARG:HH21	2.00	0.68
2:k:53:THR:CG2	3:AJ:125:ASN:CB	2.53	0.68
2:s:220:THR:OG1	2:t:98:ARG:HD2	1.93	0.68
4:Zd:2:SER:OG	4:Zd:3:PHE:N	2.25	0.68
5:AA:51:LEU:HD12	12:BB:19:LYS:HE2	1.75	0.68
5:AD:1:MET:HG2	5:AD:241:GLU:CD	2.18	0.68
6:AT:236:LYS:HZ3	6:UJ:167:ARG:HH11	1.40	0.68
9:Aw:162:PRO:HD3	6:WA:167:ARG:HH21	1.58	0.68
6:UP:126:PHE:O	6:UP:130:VAL:CB	2.41	0.68
6:WC:197:LEU:HD12	6:WD:175:SER:HB3	1.76	0.68
3:ZB:205:THR:HB	3:ZB:208:LEU:HG	1.76	0.68
4:ZH:208:TRP:NE1	4:ZH:268:GLN:OE1	2.25	0.68
4:ZV:102:LEU:HD21	4:ZV:106:ARG:HD3	1.74	0.68
5:AB:224:ALA:CA	3:AG:253:MET:HE2	2.24	0.68
5:AE:250:MET:O	12:BF:123:LYS:HD2	1.93	0.68
3:AF:6:TRP:CE2	12:BA:77:VAL:CG1	2.76	0.68
3:AL:195:THR:HG22	3:AL:197:SER:H	1.59	0.68
9:Au:109:TYR:HA	9:Au:113:TYR:HB2	1.74	0.68
6:WB:193:ALA:HB1	6:WC:213:VAL:HG11	1.76	0.68
6:WD:197:LEU:HD12	6:WE:175:SER:CB	2.23	0.68
2:s:159:GLN:OE1	2:t:44:GLY:O	2.11	0.68
2:y:220:THR:OG1	2:z:98:ARG:HD2	1.93	0.68
3:ZC:240:TYR:CE2	4:ZH:395:ILE:CG2	2.76	0.68
4:ZU:159:ASN:ND2	4:ZU:161:THR:OG1	2.26	0.68
5:AB:102:ASN:ND2	5:AB:116:GLN:OE1	2.26	0.68
5:AD:26:LEU:HD11	3:AI:242:ILE:HG21	1.76	0.68
5:AE:173:ARG:NH1	3:AJ:46:TYR:CE1	2.61	0.68
3:AH:62:LEU:HD23	12:BD:83:PRO:HG2	1.75	0.68
6:UK:139:GLU:CD	6:UK:142:ARG:HH21	2.00	0.68
2:e:220:THR:OG1	2:f:98:ARG:HD2	1.92	0.68
2:h:110:MET:O	2:i:84:VAL:CG2	2.40	0.68
2:k:220:THR:OG1	2:l:98:ARG:HD2	1.92	0.68
3:0:70:THR:HG21	5:AD:71:LEU:HD13	1.75	0.68
4:ZI:111:MET:HE1	4:ZN:58:THR:HB	1.76	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZM:204:LYS:HD2	4:ZM:205:ASP:H	1.59	0.68
6:UK:126:PHE:O	6:UK:130:VAL:CB	2.41	0.68
6:WS:197:LEU:HD12	6:WT:175:SER:OG	1.94	0.68
6:WS:197:LEU:HD12	6:WT:175:SER:CB	2.24	0.68
2:b:159:GLN:OE1	2:c:44:GLY:O	2.11	0.68
2:r:159:GLN:OE1	2:s:44:GLY:O	2.11	0.68
2:u:110:MET:O	2:v:84:VAL:CG2	2.40	0.68
4:ZF:65:THR:HB	4:ZF:363:ALA:HB3	1.75	0.68
5:AA:58:THR:HG22	3:AF:50:ARG:NH2	2.09	0.68
3:AJ:3:SER:HB2	12:BE:75:LYS:NZ	2.09	0.68
6:AV:357:SER:CB	6:BO:318:ASN:ND2	2.57	0.68
6:UJ:125:GLN:HA	6:UJ:128:GLU:HB2	1.76	0.68
2:c:159:GLN:OE1	2:d:44:GLY:O	2.11	0.68
3:4:121:GLN:NE2	3:9:78:GLU:OE1	2.27	0.68
4:ZY:18:ASP:HB3	4:Zd:5:GLN:HE22	1.56	0.68
8:At:242:HIS:HB2	6:WJ:125:GLN:CB	2.23	0.68
6:UL:98:LEU:HD12	6:UL:146:THR:OG1	1.94	0.68
6:WA:128:GLU:CG	6:WB:126:PHE:CE2	2.64	0.68
6:WD:193:ALA:HB1	6:WE:213:VAL:CG1	2.23	0.68
3:ZA:22:ILE:HG21	3:ZA:233:MET:HG3	1.76	0.67
3:ZA:137:GLN:HA	3:ZA:139:ALA:H	1.58	0.67
4:ZT:208:TRP:NE1	4:ZT:268:GLN:OE1	2.26	0.67
4:ZT:210:VAL:O	4:ZT:227:SER:N	2.28	0.67
7:Aq:58:VAL:HG21	9:Aw:207:LEU:HD11	1.75	0.67
6:WN:200:SER:O	6:WO:173:SER:OG	2.12	0.67
2:h:159:GLN:OE1	2:i:44:GLY:O	2.11	0.67
2:i:159:GLN:OE1	2:j:44:GLY:O	2.11	0.67
2:l:159:GLN:OE1	2:m:44:GLY:O	2.11	0.67
2:m:159:GLN:OE1	2:n:44:GLY:O	2.11	0.67
2:w:159:GLN:OE1	2:x:44:GLY:O	2.11	0.67
3:1:22:ILE:HG21	3:1:233:MET:HG3	1.77	0.67
3:3:241:GLU:HG2	3:8:256:LYS:HG2	1.75	0.67
3:5:238:ARG:NE	3:ZB:251:ASP:OD1	2.27	0.67
4:ZL:373:VAL:O	4:ZL:376:ILE:N	2.27	0.67
3:AH:47:GLN:HE21	12:BC:73:PRO:HB2	1.59	0.67
6:Ak:372:ILE:HG22	10:A1:4:ILE:CG1	2.25	0.67
7:Aq:89:GLY:O	6:WW:164:LEU:CD1	2.40	0.67
9:Au:59:LEU:HD21	10:Az:102:MET:HE1	1.75	0.67
6:UM:125:GLN:HA	6:UM:128:GLU:HB2	1.76	0.67
6:UP:98:LEU:HD12	6:UP:146:THR:OG1	1.94	0.67
3:1:257:LEU:O	5:AE:217:MET:HE3	1.94	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2:45:LEU:HD22	3:AF:98:LYS:HD2	1.75	0.67
3:ZC:238:ARG:NH2	4:ZI:397:ASN:HB2	2.10	0.67
4:ZN:17:LEU:HD13	4:ZS:395:ILE:HD11	1.77	0.67
4:ZN:349:GLY:O	4:ZT:89:ASN:ND2	2.28	0.67
4:Zc:210:VAL:O	4:Zc:227:SER:N	2.26	0.67
9:Ax:142:THR:O	6:WD:165:PHE:CB	2.29	0.67
6:UM:98:LEU:HD12	6:UM:146:THR:OG1	1.94	0.67
2:a:44:GLY:O	2:z:159:GLN:OE1	2.11	0.67
2:e:110:MET:O	2:f:84:VAL:CG2	2.40	0.67
2:e:159:GLN:OE1	2:f:44:GLY:O	2.11	0.67
2:u:159:GLN:OE1	2:v:44:GLY:O	2.11	0.67
2:x:159:GLN:OE1	2:y:44:GLY:O	2.11	0.67
4:ZP:349:GLY:O	4:ZV:89:ASN:ND2	2.27	0.67
4:ZX:285:LYS:O	4:ZX:306:ASN:ND2	2.23	0.67
5:AC:62:PRO:CA	3:AH:63:PRO:HG2	2.24	0.67
6:WP:197:LEU:HD12	6:WQ:175:SER:CB	2.25	0.67
6:WQ:197:LEU:HD12	6:WR:175:SER:CB	2.23	0.67
2:p:159:GLN:OE1	2:q:44:GLY:O	2.11	0.67
2:t:159:GLN:OE1	2:u:44:GLY:O	2.11	0.67
5:AC:131:GLU:CB	3:AH:179:MET:HE2	2.24	0.67
5:AE:231:MET:HE2	3:AJ:257:LEU:CB	2.23	0.67
9:Ax:160:GLN:HG2	6:WE:166:VAL:CG2	2.25	0.67
6:UL:125:GLN:HA	6:UL:128:GLU:HB2	1.76	0.67
6:WE:134:ARG:HB3	6:WE:134:ARG:HH21	1.58	0.67
2:a:159:GLN:OE1	2:b:44:GLY:O	2.11	0.67
2:r:110:MET:O	2:s:84:VAL:CG2	2.40	0.67
3:0:99:GLY:O	3:0:116:ARG:NH2	2.28	0.67
3:ZA:28:ASN:OD1	4:ZF:52:VAL:HB	1.93	0.67
5:AA:35:ARG:O	5:AA:173:ARG:NH2	2.28	0.67
5:AA:235:THR:OG1	3:AF:260:LEU:HD12	1.95	0.67
5:AB:70:GLN:CB	3:AM:6:TRP:HD1	2.07	0.67
3:AF:62:LEU:HG	12:BB:84:LEU:CD1	2.25	0.67
3:AI:257:LEU:HD13	12:BD:99:VAL:HG22	1.76	0.67
6:AP:278:THR:HG21	10:A5:21:ALA:HB3	1.73	0.67
7:Aq:14:MET:HG3	7:Ar:59:PHE:HE1	1.58	0.67
6:UN:98:LEU:HD12	6:UN:146:THR:OG1	1.94	0.67
2:e:54:GLN:NE2	3:AK:137:GLN:HE22	1.74	0.67
2:j:54:GLN:CD	3:AJ:139:ALA:HB3	2.20	0.67
3:ZA:207:GLY:C	4:ZG:89:ASN:HD21	2.01	0.67
4:ZH:285:LYS:HG2	4:ZH:286:PRO:HD2	1.76	0.67
6:UJ:98:LEU:HD12	6:UJ:146:THR:OG1	1.94	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UN:103:GLN:HG2	6:WS:182:PRO:HB3	1.75	0.67
6:UO:125:GLN:HA	6:UO:128:GLU:HB2	1.77	0.67
6:WA:197:LEU:HD12	6:WB:175:SER:HB3	1.75	0.67
6:WD:115:LEU:CD2	6:WD:134:ARG:HD2	2.24	0.67
6:WE:112:GLY:HA3	6:WE:139:GLU:OE1	1.95	0.67
6:WF:197:LEU:HD12	6:WG:175:SER:HB3	1.74	0.67
6:WG:200:SER:O	6:WH:158:ALA:CB	2.42	0.67
2:y:159:GLN:OE1	2:z:44:GLY:O	2.11	0.67
4:ZQ:178:TYR:HA	4:ZQ:201:VAL:HG12	1.74	0.67
5:AB:35:ARG:HA	5:AB:210:ASN:HD21	1.60	0.67
3:AF:229:GLU:O	3:AF:233:MET:HG3	1.95	0.67
6:AS:370:ARG:HE	10:A4:7:ILE:HD11	1.58	0.67
8:At:166:SER:O	8:At:168:ALA:N	2.26	0.67
9:Ay:143:ARG:HG3	6:WH:164:LEU:O	1.95	0.67
6:WR:113:PHE:HA	6:WS:134:ARG:HH12	1.58	0.67
2:b:110:MET:O	2:c:84:VAL:CG2	2.40	0.67
4:ZZ:380:ARG:NH1	4:Zf:393:ASP:OD1	2.27	0.67
4:Za:309:GLU:OE1	4:Za:309:GLU:N	2.27	0.67
5:AB:202:MET:HE1	3:AM:73:ARG:HD2	1.76	0.67
6:AS:297:GLN:HB2	11:A0:65:LEU:HD21	1.73	0.67
6:UK:98:LEU:HD12	6:UK:146:THR:OG1	1.94	0.67
2:q:159:GLN:OE1	2:r:44:GLY:O	2.11	0.67
5:AE:231:MET:CE	3:AJ:257:LEU:CB	2.73	0.67
6:UI:125:GLN:HA	6:UI:128:GLU:HB2	1.77	0.67
6:WA:200:SER:O	6:WB:158:ALA:HB3	1.95	0.67
2:d:159:GLN:OE1	2:e:44:GLY:O	2.11	0.66
2:e:80:GLN:HE22	3:AK:203:GLU:HB2	1.60	0.66
2:v:159:GLN:OE1	2:w:44:GLY:O	2.11	0.66
5:AE:60:SER:HA	3:AJ:65:GLY:O	1.94	0.66
3:AM:22:ILE:HD11	3:AM:232:ASN:HB3	1.76	0.66
6:WO:167:ARG:O	6:WO:168:GLU:HB2	1.93	0.66
6:WW:186:LEU:HA	6:WW:190:GLN:OE1	1.96	0.66
2:v:161:ASN:HD22	2:w:46:ASP:HA	1.61	0.66
3:ZD:85:ASN:OD1	4:ZO:50:LEU:CD1	2.42	0.66
4:Zd:154:MET:HE2	4:Zd:263:PHE:HE1	1.60	0.66
9:Aw:68:ILE:HD11	10:A2:104:VAL:HG22	1.76	0.66
11:A0:36:PRO:HB3	11:A0:96:ASP:HB2	1.77	0.66
6:UO:98:LEU:HD12	6:UO:146:THR:OG1	1.94	0.66
3:5:85:ASN:HA	4:ZG:50:LEU:HD22	1.76	0.66
3:5:259:GLN:O	3:5:260:LEU:C	2.37	0.66
4:ZF:65:THR:HG23	4:ZQ:50:LEU:HD21	1.78	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:1:MET:HG3	12:BC:93:MET:HE3	1.77	0.66
6:WB:190:GLN:HG2	6:WC:216:SER:O	1.94	0.66
2:u:161:ASN:HD22	2:v:46:ASP:HA	1.61	0.66
2:w:161:ASN:HD22	2:x:46:ASP:HA	1.61	0.66
3:0:112:SER:HB3	3:0:137:GLN:HE22	1.61	0.66
3:7:238:ARG:HB3	3:ZD:1:MET:HE1	1.77	0.66
3:ZD:205:THR:HB	3:ZD:208:LEU:HD23	1.77	0.66
4:ZL:294:ILE:O	4:ZL:358:ASN:ND2	2.27	0.66
4:ZO:317:LEU:HD11	4:ZO:356:LEU:HD21	1.76	0.66
4:ZT:349:GLY:O	4:ZZ:89:ASN:ND2	2.28	0.66
6:BV:391:VAL:HG21	6:BV:409:MET:HE1	1.78	0.66
2:y:110:MET:O	2:z:84:VAL:CG2	2.40	0.66
3:9:175:LEU:HD11	3:9:214:LEU:HD21	1.77	0.66
4:ZR:375:MET:HE1	4:ZW:388:THR:HG23	1.76	0.66
6:Af:391:VAL:HG21	6:Af:409:MET:HE1	1.78	0.66
6:Ag:391:VAL:HG21	6:Ag:409:MET:HE1	1.78	0.66
6:Ah:391:VAL:HG21	6:Ah:409:MET:HE1	1.78	0.66
6:Ai:391:VAL:HG21	6:Ai:409:MET:HE1	1.78	0.66
6:Aj:391:VAL:HG21	6:Aj:409:MET:HE1	1.78	0.66
9:Au:43:GLN:OE1	11:A6:4:ARG:NH1	2.28	0.66
9:Ax:194:LEU:HD11	9:Ay:220:PRO:HG2	1.77	0.66
6:UO:62:ASP:OD2	6:WT:184:ARG:NH2	2.28	0.66
6:WE:112:GLY:HA2	6:WE:135:ALA:CA	2.18	0.66
6:BU:391:VAL:HG21	6:BU:409:MET:HE1	1.78	0.66
6:BW:391:VAL:HG21	6:BW:409:MET:HE1	1.78	0.66
6:BX:391:VAL:HG21	6:BX:409:MET:HE1	1.78	0.66
2:g:161:ASN:HD22	2:h:46:ASP:HA	1.61	0.66
2:t:161:ASN:HD22	2:u:46:ASP:HA	1.61	0.66
2:x:161:ASN:HD22	2:y:46:ASP:HA	1.61	0.66
3:4:86:LEU:HD12	4:ZF:42:MET:CE	2.24	0.66
4:ZH:379:GLN:HE21	4:ZM:391:THR:HG23	1.59	0.66
4:ZW:42:MET:HE3	4:ZW:53:LYS:HB3	1.76	0.66
4:ZZ:210:VAL:O	4:ZZ:227:SER:N	2.28	0.66
5:AE:238:ASP:OD1	12:BE:110:ARG:NH1	2.28	0.66
6:AW:278:THR:HG21	10:A3:14:LEU:HB3	1.77	0.66
6:BT:391:VAL:HG21	6:BT:409:MET:HE1	1.78	0.66
2:h:161:ASN:HD22	2:i:46:ASP:HA	1.61	0.66
3:ZC:115:THR:HB	3:ZC:191:LEU:HD23	1.77	0.66
4:Zb:18:ASP:CG	4:Zg:5:GLN:HE22	2.02	0.66
3:AJ:3:SER:HB2	12:BE:75:LYS:HZ2	1.59	0.66
6:AS:391:VAL:HG21	6:AS:409:MET:HE1	1.78	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ak:391:VAL:HG21	6:Ak:409:MET:HE1	1.78	0.66
6:AQ:374:HIS:CD2	10:A5:15:GLN:HB2	2.30	0.66
8:At:193:LEU:HD22	8:At:228:LEU:HD11	1.77	0.66
6:UK:207:PRO:CG	6:WE:187:ASP:CG	2.68	0.66
2:i:161:ASN:HD22	2:j:46:ASP:HA	1.61	0.66
3:l:51:GLN:NE2	3:AK:75:VAL:O	2.29	0.66
4:ZI:65:THR:HG21	4:ZT:4:SER:HB3	1.77	0.66
5:AB:223:ASN:C	3:AG:253:MET:CE	2.69	0.66
3:AF:9:LYS:CE	12:BF:100:GLY:HA2	2.25	0.66
3:AH:229:GLU:O	3:AH:233:MET:HG3	1.96	0.66
6:Ae:391:VAL:HG21	6:Ae:409:MET:HE1	1.78	0.66
6:Ao:278:THR:HG21	10:Az:7:ILE:CB	2.24	0.66
6:UP:125:GLN:HA	6:UP:128:GLU:HB2	1.77	0.66
12:BE:37:PRO:HB2	6:BO:330:THR:HG23	1.78	0.66
6:BP:312:VAL:O	6:BP:317:SER:OG	2.11	0.66
2:f:161:ASN:HD22	2:g:46:ASP:HA	1.61	0.66
2:s:161:ASN:HD22	2:t:46:ASP:HA	1.61	0.66
2:y:161:ASN:HD22	2:z:46:ASP:HA	1.61	0.66
3:0:9:LYS:CE	5:AD:72:ASP:OD2	2.43	0.66
3:1:43:ASP:HA	3:1:72:VAL:HA	1.78	0.66
3:4:70:THR:HG22	3:4:71:GLY:H	1.60	0.66
3:ZE:167:PRO:HG2	4:ZP:338:GLN:NE2	2.10	0.66
4:ZR:337:THR:HG22	4:ZR:339:ALA:H	1.61	0.66
4:ZW:57:ILE:HD12	4:Zb:47:LYS:HB2	1.78	0.66
5:AB:151:PRO:HB2	5:AB:154:THR:HG23	1.77	0.66
6:AX:278:THR:HG21	10:A3:7:ILE:HG21	1.76	0.66
6:Ad:391:VAL:HG21	6:Ad:409:MET:HE1	1.78	0.66
6:Al:391:VAL:HG21	6:Al:409:MET:HE1	1.78	0.66
10:A4:21:ALA:HB1	6:BV:278:THR:CG2	2.22	0.66
12:BA:6:ILE:HG21	12:BA:122:VAL:HG21	1.76	0.66
6:BS:391:VAL:HG21	6:BS:409:MET:HE1	1.78	0.66
2:e:161:ASN:HD22	2:f:46:ASP:HA	1.61	0.66
2:k:161:ASN:HD22	2:l:46:ASP:HA	1.61	0.66
4:ZG:118:GLY:HA2	4:ZG:316:VAL:HG12	1.77	0.66
4:Za:331:ASP:HA	4:Zf:40:ALA:HB1	1.78	0.66
6:AT:391:VAL:HG21	6:AT:409:MET:HE1	1.78	0.66
6:AU:391:VAL:HG21	6:AU:409:MET:HE1	1.78	0.66
6:Ac:391:VAL:HG21	6:Ac:409:MET:HE1	1.78	0.66
6:WA:112:GLY:HA3	6:WA:139:GLU:OE1	1.95	0.66
6:BR:391:VAL:HG21	6:BR:409:MET:HE1	1.78	0.66
2:j:161:ASN:HD22	2:k:46:ASP:HA	1.61	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZI:156:ILE:HG13	4:ZI:276:ILE:HA	1.76	0.65
4:ZL:165:PRO:HG3	4:ZL:179:ASN:HD21	1.60	0.65
3:AK:130:THR:HG23	3:AK:132:GLY:H	1.60	0.65
11:A0:123:LEU:HD23	12:BE:132:LEU:HD11	1.77	0.65
1:Q:107:ASP:OD1	4:ZF:133:ASN:HB3	1.95	0.65
4:ZM:33:LYS:HD2	4:ZM:61:PHE:HA	1.77	0.65
6:AQ:391:VAL:HG21	6:AQ:409:MET:HE1	1.78	0.65
6:WF:128:GLU:HG2	6:WG:126:PHE:CD2	2.29	0.65
2:d:161:ASN:HD22	2:e:46:ASP:HA	1.61	0.65
3:ZA:208:LEU:O	3:ZA:210:GLY:N	2.30	0.65
5:AA:229:MET:HG2	3:AG:258:THR:HG22	1.77	0.65
5:AB:224:ALA:CA	3:AG:253:MET:HE3	2.25	0.65
3:AI:124:GLN:NE2	3:AI:125:ASN:OD1	2.30	0.65
6:AR:391:VAL:HG21	6:AR:409:MET:HE1	1.78	0.65
6:AY:299:ASN:ND2	11:A9:78:VAL:C	2.48	0.65
6:Am:391:VAL:HG21	6:Am:409:MET:HE1	1.78	0.65
9:Av:158:PRO:HD3	6:WU:167:ARG:HH12	1.61	0.65
6:UI:98:LEU:HD12	6:UI:146:THR:OG1	1.94	0.65
6:UK:125:GLN:HA	6:UK:128:GLU:HB2	1.76	0.65
6:WH:203:ALA:CB	6:WI:160:PRO:HB3	2.20	0.65
2:a:46:ASP:HA	2:z:161:ASN:HD22	1.61	0.65
2:r:161:ASN:HD22	2:s:46:ASP:HA	1.61	0.65
3:2:122:VAL:O	3:7:180:ASN:ND2	2.29	0.65
3:ZE:26:LEU:HD22	4:ZJ:384:SER:OG	1.96	0.65
4:ZK:112:GLN:HE21	4:ZK:331:ASP:HB3	1.61	0.65
6:AS:365:ASN:CB	11:A0:72:HIS:CD2	2.60	0.65
10:A4:11:ILE:HG22	6:BX:372:ILE:HB	1.77	0.65
6:WO:197:LEU:HD12	6:WP:175:SER:CB	2.26	0.65
2:l:161:ASN:HD22	2:m:46:ASP:HA	1.61	0.65
3:ZE:54:ALA:HB1	3:AM:150:THR:HG21	1.78	0.65
4:ZQ:288:ASP:H	4:ZQ:305:SER:HB3	1.61	0.65
4:ZS:196:MET:HA	4:ZS:196:MET:HE3	1.78	0.65
4:ZV:77:ILE:HD12	4:ZV:96:ARG:HD3	1.78	0.65
5:AC:221:ILE:HG23	3:AI:251:ASP:OD2	1.96	0.65
6:AS:389:VAL:HG21	6:AS:416:THR:HG21	1.79	0.65
6:Aa:391:VAL:HG21	6:Aa:409:MET:HE1	1.78	0.65
6:An:391:VAL:HG21	6:An:409:MET:HE1	1.78	0.65
3:8:46:TYR:HA	3:8:69:GLY:HA2	1.79	0.65
3:ZE:85:ASN:CG	4:ZP:50:LEU:HD21	2.21	0.65
4:ZL:144:MET:HE3	4:ZL:306:ASN:HD21	1.61	0.65
4:ZL:269:GLN:HG3	4:ZL:270:ASN:H	1.61	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:74:THR:HG21	3:AI:38:ARG:NH1	2.11	0.65
6:AV:389:VAL:HG21	6:AV:416:THR:HG21	1.79	0.65
6:Ag:295:SER:CB	11:A8:72:HIS:HA	2.27	0.65
6:Ak:389:VAL:HG21	6:Ak:416:THR:HG21	1.79	0.65
6:AP:391:VAL:HG21	6:AP:409:MET:HE1	1.78	0.65
9:Aw:66:ARG:NH2	9:Aw:242:SER:OG	2.30	0.65
2:i:54:GLN:HE22	3:AJ:174:ASN:HD22	1.45	0.65
3:6:241:GLU:HG2	3:ZB:256:LYS:HG3	1.78	0.65
3:7:254:LEU:O	3:7:258:THR:HG23	1.97	0.65
5:AC:165:LYS:HG3	5:AC:199:ILE:HD11	1.78	0.65
5:AD:217:MET:SD	3:AI:245:LYS:HG2	2.37	0.65
6:AT:389:VAL:HG21	6:AT:416:THR:HG21	1.79	0.65
6:AU:389:VAL:HG21	6:AU:416:THR:HG21	1.79	0.65
6:AV:391:VAL:HG21	6:AV:409:MET:HE1	1.78	0.65
6:AW:391:VAL:HG21	6:AW:409:MET:HE1	1.78	0.65
6:Am:389:VAL:HG21	6:Am:416:THR:HG21	1.79	0.65
6:Ao:389:VAL:HG21	6:Ao:416:THR:HG21	1.79	0.65
6:Ao:391:VAL:HG21	6:Ao:409:MET:HE1	1.78	0.65
6:AO:391:VAL:HG21	6:AO:409:MET:HE1	1.78	0.65
2:c:161:ASN:HD22	2:d:46:ASP:HA	1.61	0.65
2:m:161:ASN:HD22	2:n:46:ASP:HA	1.61	0.65
3:1:79:ARG:HH12	3:1:184:LEU:HB2	1.62	0.65
3:ZD:185:GLU:OE1	4:ZI:46:SER:CB	2.44	0.65
4:ZV:267:MET:HE3	4:ZV:269:GLN:HE21	1.61	0.65
4:ZY:2:SER:OG	4:ZY:3:PHE:N	2.24	0.65
5:AD:217:MET:CE	3:AI:242:ILE:HD13	2.27	0.65
3:AF:6:TRP:HZ2	12:BA:79:GLU:HG2	1.60	0.65
3:AK:153:ARG:HG2	3:AK:213:LEU:HD12	1.78	0.65
6:AS:297:GLN:NE2	11:A0:76:GLN:H	1.95	0.65
6:AY:370:ARG:HH21	10:A3:7:ILE:HD11	1.62	0.65
6:An:389:VAL:HG21	6:An:416:THR:HG21	1.79	0.65
2:a:161:ASN:HD22	2:b:46:ASP:HA	1.61	0.65
2:q:161:ASN:HD22	2:r:46:ASP:HA	1.61	0.65
4:ZI:379:GLN:HG3	4:ZN:391:THR:HG23	1.76	0.65
5:AA:220:MET:CE	3:AF:246:ALA:CB	2.75	0.65
3:AG:6:TRP:HH2	12:BB:79:GLU:OE2	1.76	0.65
3:AI:241:GLU:HG2	3:AN:256:LYS:HG2	1.78	0.65
6:AZ:391:VAL:HG21	6:AZ:409:MET:HE1	1.78	0.65
6:Al:389:VAL:HG21	6:Al:416:THR:HG21	1.79	0.65
6:Ap:389:VAL:HG21	6:Ap:416:THR:HG21	1.79	0.65
9:Ay:138:MET:HE1	9:Ay:171:LEU:HD23	1.78	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UN:125:GLN:HA	6:UN:128:GLU:HB2	1.76	0.65
6:BW:389:VAL:HG21	6:BW:416:THR:HG21	1.79	0.65
6:BX:389:VAL:HG21	6:BX:416:THR:HG21	1.79	0.65
2:e:80:GLN:OE1	3:AK:203:GLU:C	2.40	0.65
3:4:79:ARG:NH2	3:4:184:LEU:O	2.30	0.65
3:ZB:28:ASN:HD22	3:ZB:31:THR:HG21	1.62	0.65
4:ZX:2:SER:OG	4:ZX:3:PHE:N	2.27	0.65
3:AI:62:LEU:HD21	12:BE:82:ASN:OD1	1.96	0.65
6:Ap:391:VAL:HG21	6:Ap:409:MET:HE1	1.78	0.65
6:WT:128:GLU:HG2	6:WU:126:PHE:HD2	1.60	0.65
6:WW:134:ARG:HB3	6:WW:134:ARG:HH21	1.61	0.65
2:n:161:ASN:HD22	2:o:46:ASP:HA	1.61	0.64
3:2:140:ILE:HD13	3:2:157:VAL:HG21	1.79	0.64
3:6:28:ASN:ND2	3:ZB:43:ASP:OD1	2.29	0.64
3:ZE:205:THR:HB	3:ZE:208:LEU:HD22	1.77	0.64
4:ZJ:2:SER:HB3	4:ZJ:392:GLN:HG3	1.78	0.64
4:ZK:380:ARG:NH2	4:ZQ:393:ASP:OD1	2.30	0.64
5:AA:235:THR:OG1	3:AF:260:LEU:CD1	2.45	0.64
5:AC:220:MET:HE3	3:AH:245:LYS:HD3	1.78	0.64
6:AS:294:ARG:HD2	11:A0:68:THR:CG2	2.25	0.64
6:AX:389:VAL:HG21	6:AX:416:THR:HG21	1.79	0.64
6:AX:391:VAL:HG21	6:AX:409:MET:HE1	1.78	0.64
6:AY:391:VAL:HG21	6:AY:409:MET:HE1	1.78	0.64
6:Ai:389:VAL:HG21	6:Ai:416:THR:HG21	1.79	0.64
9:Au:58:LEU:O	9:Au:62:THR:OG1	2.14	0.64
9:Aw:135:ARG:NH1	9:Aw:165:VAL:O	2.30	0.64
6:UK:103:GLN:CD	6:WF:182:PRO:HB3	2.21	0.64
6:WM:200:SER:O	6:WN:158:ALA:HB2	1.97	0.64
6:WP:128:GLU:HG3	6:WQ:126:PHE:HE2	1.62	0.64
6:BU:389:VAL:HG21	6:BU:416:THR:HG21	1.79	0.64
3:9:218:TYR:OH	4:ZK:53:LYS:HB2	1.97	0.64
4:ZX:27:SER:HB3	4:ZX:368:LEU:HD21	1.78	0.64
4:ZY:128:ILE:HD13	4:ZY:314:GLN:HB2	1.78	0.64
6:AW:389:VAL:HG21	6:AW:416:THR:HG21	1.79	0.64
11:A7:36:PRO:HB3	11:A7:96:ASP:HB2	1.79	0.64
1:B:102:THR:CG2	1:C:130:ASN:ND2	2.61	0.64
1:E:102:THR:CG2	1:F:130:ASN:ND2	2.61	0.64
1:Y:102:THR:CG2	1:Z:130:ASN:ND2	2.61	0.64
2:b:161:ASN:HD22	2:c:46:ASP:HA	1.61	0.64
3:ZE:28:ASN:OD1	4:ZJ:52:VAL:HB	1.96	0.64
3:ZE:167:PRO:CG	4:ZP:338:GLN:NE2	2.61	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ZE:259:GLN:O	3:ZE:260:LEU:C	2.40	0.64
4:ZI:294:ILE:O	4:ZI:358:ASN:ND2	2.29	0.64
6:AY:389:VAL:HG21	6:AY:416:THR:HG21	1.79	0.64
6:AP:389:VAL:HG21	6:AP:416:THR:HG21	1.79	0.64
9:Au:151:ALA:HB2	6:WP:164:LEU:HD21	1.79	0.64
9:Ay:160:GLN:O	6:WI:167:ARG:HG3	1.98	0.64
6:WA:154:ARG:HG2	6:WW:143:THR:OG1	1.97	0.64
6:WE:123:ILE:HB	6:WE:128:GLU:OE1	1.96	0.64
1:H:102:THR:CG2	1:I:130:ASN:ND2	2.61	0.64
1:V:102:THR:CG2	1:W:130:ASN:ND2	2.61	0.64
2:k:53:THR:CG2	3:AJ:125:ASN:CG	2.70	0.64
3:ZA:42:GLU:OE2	3:ZA:73:ARG:NH1	2.28	0.64
3:ZC:70:THR:HG22	3:ZC:71:GLY:H	1.63	0.64
4:ZR:269:GLN:HB3	4:ZX:286:PRO:HG3	1.79	0.64
4:Za:349:GLY:O	4:Zg:89:ASN:ND2	2.31	0.64
3:AF:259:GLN:O	3:AF:260:LEU:C	2.39	0.64
6:Ae:372:ILE:HG21	10:A2:4:ILE:HG13	1.79	0.64
6:Aj:389:VAL:HG21	6:Aj:416:THR:HG21	1.79	0.64
6:AO:389:VAL:HG21	6:AO:416:THR:HG21	1.79	0.64
9:Ax:160:GLN:CA	6:WE:166:VAL:CG2	2.60	0.64
2:o:161:ASN:HD22	2:p:46:ASP:HA	1.61	0.64
2:p:161:ASN:HD22	2:q:46:ASP:HA	1.61	0.64
3:7:70:THR:HG22	3:7:71:GLY:H	1.62	0.64
3:7:231:VAL:HG11	3:ZD:9:LYS:HG2	1.78	0.64
3:ZD:20:ASP:OD1	4:ZI:2:SER:HB2	1.97	0.64
4:Zc:379:GLN:HE22	4:Zh:394:GLN:HE21	1.46	0.64
6:AR:235:LEU:HD22	6:Ac:244:ARG:HH12	1.63	0.64
6:AZ:389:VAL:HG21	6:AZ:416:THR:HG21	1.79	0.64
6:WD:168:GLU:OE2	6:WD:170:LYS:HE3	1.94	0.64
6:WR:143:THR:OG1	6:WS:154:ARG:HG2	1.97	0.64
6:BW:235:LEU:HD22	6:BX:244:ARG:HH12	1.63	0.64
1:A:102:THR:CG2	1:B:130:ASN:ND2	2.61	0.64
1:D:102:THR:CG2	1:E:130:ASN:ND2	2.61	0.64
1:G:102:THR:CG2	1:H:130:ASN:ND2	2.61	0.64
1:K:102:THR:CG2	1:L:130:ASN:ND2	2.61	0.64
2:o:51:GLN:HE22	3:AI:139:ALA:HB3	1.61	0.64
3:ZA:91:ASN:ND2	3:ZA:94:ASP:OD2	2.30	0.64
3:ZC:122:VAL:O	4:ZH:322:ASN:CG	2.41	0.64
5:AC:215:GLU:HG2	3:AI:9:LYS:CE	2.27	0.64
5:AD:26:LEU:HD12	3:AI:242:ILE:HG22	1.79	0.64
3:AM:187:ILE:HD12	3:AM:193:ILE:HD11	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AX:394:LYS:HA	6:AX:394:LYS:HE3	1.80	0.64
6:Ag:389:VAL:HG21	6:Ag:416:THR:HG21	1.79	0.64
6:An:235:LEU:HD22	6:Ao:244:ARG:HH12	1.63	0.64
6:Ao:287:ASP:HB3	6:Ao:290:LYS:HE2	1.80	0.64
6:WH:197:LEU:HD12	6:WI:175:SER:OG	1.97	0.64
6:WN:196:HIS:CB	6:WO:211:THR:HG21	2.19	0.64
6:WR:122:GLY:O	6:WR:123:ILE:C	2.39	0.64
6:BR:389:VAL:HG21	6:BR:416:THR:HG21	1.79	0.64
6:BS:389:VAL:HG21	6:BS:416:THR:HG21	1.79	0.64
6:BT:389:VAL:HG21	6:BT:416:THR:HG21	1.79	0.64
1:R:102:THR:CG2	1:S:130:ASN:ND2	2.61	0.64
1:U:102:THR:CG2	1:V:130:ASN:ND2	2.61	0.64
1:X:102:THR:CG2	1:Y:130:ASN:ND2	2.61	0.64
2:e:80:GLN:HE22	3:AK:203:GLU:CG	2.11	0.64
3:O:115:THR:HB	3:O:191:LEU:HD23	1.79	0.64
3:ZD:52:PRO:HA	3:ZD:65:GLY:H	1.63	0.64
4:ZV:379:GLN:NE2	4:Za:394:GLN:OE1	2.31	0.64
5:AE:231:MET:HE1	3:AJ:257:LEU:HD12	1.79	0.64
6:AW:394:LYS:HA	6:AW:394:LYS:HE3	1.80	0.64
6:AY:365:ASN:CB	11:A9:72:HIS:CD2	2.66	0.64
6:AZ:394:LYS:HE3	6:AZ:394:LYS:HA	1.80	0.64
6:Ag:394:LYS:HA	6:Ag:394:LYS:HE3	1.80	0.64
6:Al:235:LEU:HD22	6:Am:244:ARG:HH12	1.63	0.64
6:Ap:235:LEU:HD22	6:AO:244:ARG:HH12	1.63	0.64
6:AQ:389:VAL:HG21	6:AQ:416:THR:HG21	1.79	0.64
11:A7:74:PRO:O	11:A7:75:ALA:C	2.40	0.64
6:WH:197:LEU:HD11	6:WI:156:HIS:HD2	1.63	0.64
6:BV:389:VAL:HG21	6:BV:416:THR:HG21	1.79	0.64
1:Q:107:ASP:CG	4:ZF:133:ASN:HB3	2.21	0.64
1:S:102:THR:CG2	1:T:130:ASN:ND2	2.61	0.64
5:AD:76:ARG:NH2	5:AD:79:ASP:OD1	2.31	0.64
3:AH:50:ARG:HD3	6:BL:322:PRO:HD3	1.79	0.64
6:AR:394:LYS:HE3	6:AR:394:LYS:HA	1.80	0.64
6:AU:394:LYS:HA	6:AU:394:LYS:HE3	1.80	0.64
6:AY:370:ARG:HE	10:A3:7:ILE:HD11	1.62	0.64
6:Aa:389:VAL:HG21	6:Aa:416:THR:HG21	1.79	0.64
6:Ad:235:LEU:HD22	6:Ae:244:ARG:HH12	1.63	0.64
6:Ad:394:LYS:HA	6:Ad:394:LYS:HE3	1.80	0.64
10:A5:55:GLN:NE2	10:A5:74:ASP:OD2	2.31	0.64
6:BS:235:LEU:HD22	6:BT:244:ARG:HH12	1.63	0.64
1:N:102:THR:CG2	1:O:130:ASN:ND2	2.61	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:102:THR:CG2	1:P:130:ASN:ND2	2.61	0.64
2:a:117:ARG:NH1	2:a:145:GLY:HA3	2.13	0.64
2:b:117:ARG:NH1	2:b:145:GLY:HA3	2.13	0.64
2:c:117:ARG:NH1	2:c:145:GLY:HA3	2.13	0.64
2:d:193:ASP:OD2	2:e:23:ARG:NH2	2.31	0.64
2:t:193:ASP:OD2	2:u:23:ARG:NH2	2.31	0.64
3:O:130:THR:HG23	3:O:132:GLY:H	1.63	0.64
3:ZA:76:ALA:HA	4:ZF:47:LYS:NZ	2.13	0.64
3:ZC:98:LYS:CE	4:ZN:44:ALA:HB2	2.28	0.64
6:AS:235:LEU:HD22	6:AT:244:ARG:HH12	1.63	0.64
6:AZ:235:LEU:HD22	6:Aa:244:ARG:HH12	1.63	0.64
6:Ac:394:LYS:HA	6:Ac:394:LYS:HE3	1.80	0.64
6:Ae:372:ILE:CD1	10:A2:3:ALA:C	2.70	0.64
6:Ae:394:LYS:HA	6:Ae:394:LYS:HE3	1.80	0.64
6:Ah:389:VAL:HG21	6:Ah:416:THR:HG21	1.79	0.64
9:Ax:152:ARG:NH1	6:WF:167:ARG:O	2.31	0.64
9:Ay:147:LEU:HD12	6:WH:166:VAL:HG11	1.80	0.64
6:BU:235:LEU:HD22	6:BV:244:ARG:HH12	1.63	0.64
1:J:102:THR:CG2	1:K:130:ASN:ND2	2.61	0.64
1:L:102:THR:CG2	1:M:130:ASN:ND2	2.61	0.64
2:d:117:ARG:NH1	2:d:145:GLY:HA3	2.13	0.64
2:e:193:ASP:OD2	2:f:23:ARG:NH2	2.31	0.64
2:i:193:ASP:OD2	2:j:23:ARG:NH2	2.31	0.64
2:n:193:ASP:OD2	2:o:23:ARG:NH2	2.31	0.64
2:s:193:ASP:OD2	2:t:23:ARG:NH2	2.31	0.64
2:z:117:ARG:NH1	2:z:145:GLY:HA3	2.13	0.64
4:ZH:331:ASP:HA	4:ZM:40:ALA:HB1	1.79	0.64
4:ZQ:22:ASN:ND2	4:ZV:49:GLY:O	2.31	0.64
6:AV:287:ASP:HB3	6:AV:290:LYS:HE2	1.80	0.64
6:AW:287:ASP:HB3	6:AW:290:LYS:HE2	1.80	0.64
6:AY:394:LYS:HA	6:AY:394:LYS:HE3	1.80	0.64
6:Ac:389:VAL:HG21	6:Ac:416:THR:HG21	1.79	0.64
6:Ai:394:LYS:HA	6:Ai:394:LYS:HE3	1.80	0.64
9:Ax:204:LEU:HD22	9:Ax:212:VAL:HG11	1.78	0.64
10:A5:7:ILE:HD12	6:BS:372:ILE:HD12	1.80	0.64
1:A:130:ASN:ND2	1:Z:102:THR:CG2	2.61	0.63
1:F:102:THR:CG2	1:G:130:ASN:ND2	2.61	0.63
1:I:102:THR:CG2	1:J:130:ASN:ND2	2.61	0.63
2:y:193:ASP:OD2	2:z:23:ARG:NH2	2.32	0.63
4:ZX:71:ARG:HD3	4:ZX:74:ASP:OD1	1.98	0.63
4:Zc:154:MET:HE1	4:Zc:198:VAL:HG21	1.79	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ad:389:VAL:HG21	6:Ad:416:THR:HG21	1.79	0.63
6:Ae:389:VAL:HG21	6:Ae:416:THR:HG21	1.79	0.63
6:Af:394:LYS:HA	6:Af:394:LYS:HE3	1.80	0.63
6:Ag:235:LEU:HD22	6:Ah:244:ARG:HH12	1.63	0.63
6:An:287:ASP:HB3	6:An:290:LYS:HE2	1.80	0.63
6:AP:278:THR:CG2	10:A5:21:ALA:CB	2.67	0.63
6:AQ:235:LEU:HD22	6:BR:244:ARG:HH12	1.63	0.63
8:At:24:LEU:HB3	10:Az:89:ARG:NH2	2.12	0.63
6:WL:197:LEU:HD12	6:WM:175:SER:HB3	1.80	0.63
1:C:102:THR:CG2	1:D:130:ASN:ND2	2.61	0.63
2:a:23:ARG:NH2	2:z:193:ASP:OD2	2.31	0.63
2:e:117:ARG:NH1	2:e:145:GLY:HA3	2.13	0.63
2:j:193:ASP:OD2	2:k:23:ARG:NH2	2.31	0.63
2:o:193:ASP:OD2	2:p:23:ARG:NH2	2.32	0.63
2:z:53:THR:HG21	3:AL:203:GLU:HB3	1.79	0.63
3:8:151:ILE:HG23	3:8:157:VAL:HG22	1.79	0.63
4:ZI:159:ASN:ND2	4:ZI:271:THR:O	2.31	0.63
4:ZK:248:THR:OG1	4:ZK:257:ALA:N	2.31	0.63
4:ZU:65:THR:HG21	4:Zf:4:SER:HB3	1.80	0.63
4:ZY:159:ASN:ND2	4:ZY:161:THR:OG1	2.30	0.63
5:AD:243:ARG:NH2	12:BE:109:SER:O	2.31	0.63
6:AR:389:VAL:HG21	6:AR:416:THR:HG21	1.79	0.63
6:AS:394:LYS:HA	6:AS:394:LYS:HE3	1.80	0.63
6:AU:235:LEU:HD22	6:AV:244:ARG:HH12	1.63	0.63
6:AU:287:ASP:HB3	6:AU:290:LYS:HE2	1.80	0.63
6:AX:372:ILE:HG21	10:A3:11:ILE:CG2	2.28	0.63
6:Af:389:VAL:HG21	6:Af:416:THR:HG21	1.79	0.63
6:Ah:394:LYS:HE3	6:Ah:394:LYS:HA	1.80	0.63
6:Aj:394:LYS:HA	6:Aj:394:LYS:HE3	1.80	0.63
6:Ap:287:ASP:HB3	6:Ap:290:LYS:HE2	1.80	0.63
6:AP:235:LEU:HD22	6:AQ:244:ARG:HH12	1.63	0.63
7:Ar:75:ASP:O	7:Ar:79:THR:HG23	1.98	0.63
8:At:144:LEU:HB3	6:WJ:164:LEU:CD2	2.27	0.63
10:A4:11:ILE:CG2	6:BX:372:ILE:HG21	2.28	0.63
6:WH:197:LEU:HA	6:WI:175:SER:OG	1.97	0.63
1:Q:102:THR:CG2	1:R:130:ASN:ND2	2.61	0.63
1:W:102:THR:CG2	1:X:130:ASN:ND2	2.61	0.63
2:m:193:ASP:OD2	2:n:23:ARG:NH2	2.31	0.63
2:y:117:ARG:NH1	2:y:145:GLY:HA3	2.13	0.63
3:4:98:LYS:NZ	3:ZA:187:ILE:O	2.31	0.63
3:ZD:238:ARG:O	3:ZD:242:ILE:HG13	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZP:373:VAL:O	4:ZP:376:ILE:N	2.30	0.63
4:ZU:155:GLN:HG3	4:ZU:277:VAL:HB	1.79	0.63
4:ZY:281:GLN:NE2	4:ZY:283:GLY:O	2.32	0.63
4:Za:146:ALA:HB2	4:Za:286:PRO:HD3	1.80	0.63
5:AA:220:MET:HE2	3:AF:246:ALA:CA	2.27	0.63
6:AT:294:ARG:HE	11:A0:72:HIS:HE1	1.43	0.63
6:AX:235:LEU:HD22	6:AY:244:ARG:HH12	1.63	0.63
6:Ae:235:LEU:HD22	6:Af:244:ARG:HH12	1.63	0.63
6:Aj:235:LEU:HD22	6:Ak:244:ARG:HH12	1.63	0.63
6:An:278:THR:CG2	10:Az:14:LEU:CD2	2.62	0.63
7:As:58:VAL:HG11	9:Ay:207:LEU:HD11	1.79	0.63
8:At:158:PRO:CG	8:At:162:ASN:HD21	2.09	0.63
6:WG:139:GLU:HB3	6:WH:154:ARG:HH21	1.64	0.63
6:WH:197:LEU:HD12	6:WI:175:SER:CB	2.28	0.63
2:x:33:GLU:HG2	2:x:95:PRO:HD3	1.80	0.63
3:3:55:GLN:OE1	5:AB:157:PRO:HG3	1.97	0.63
3:3:179:MET:HE1	3:AM:144:ALA:HB2	1.80	0.63
6:AT:394:LYS:HA	6:AT:394:LYS:HE3	1.80	0.63
6:AW:235:LEU:HD22	6:AX:244:ARG:HH12	1.63	0.63
6:AY:294:ARG:HG2	11:A9:66:THR:OG1	1.98	0.63
6:Aa:287:ASP:HB3	6:Aa:290:LYS:HE2	1.80	0.63
6:Aa:394:LYS:HA	6:Aa:394:LYS:HE3	1.80	0.63
6:Af:235:LEU:HD22	6:Ag:244:ARG:HH12	1.63	0.63
6:Ai:235:LEU:HD22	6:Aj:244:ARG:HH12	1.63	0.63
9:Aw:152:ARG:HD2	6:WB:166:VAL:O	1.97	0.63
11:A8:22:ARG:NH2	11:A8:108:GLN:OE1	2.31	0.63
6:WB:200:SER:O	6:WC:158:ALA:CB	2.45	0.63
6:WU:128:GLU:HG2	6:WV:126:PHE:HD2	1.64	0.63
1:P:102:THR:CG2	1:Q:130:ASN:ND2	2.61	0.63
2:f:117:ARG:NH1	2:f:145:GLY:HA3	2.13	0.63
2:h:193:ASP:OD2	2:i:23:ARG:NH2	2.32	0.63
2:o:117:ARG:NH1	2:o:145:GLY:HA3	2.13	0.63
2:s:273:CYS:CB	2:t:264:MET:O	2.40	0.63
2:u:193:ASP:OD2	2:v:23:ARG:NH2	2.31	0.63
2:w:33:GLU:HG2	2:w:95:PRO:HD3	1.80	0.63
2:y:33:GLU:HG2	2:y:95:PRO:HD3	1.80	0.63
3:3:256:LYS:HG2	3:AM:241:GLU:HG2	1.81	0.63
4:ZI:374:ASN:O	4:ZI:377:VAL:N	2.31	0.63
5:AE:213:PRO:HB3	3:AJ:242:ILE:HD13	1.80	0.63
3:AJ:2:ILE:HD13	12:BE:32:ASP:OD1	1.99	0.63
3:AM:37:GLN:NE2	3:AM:77:THR:OG1	2.32	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AR:287:ASP:HB3	6:AR:290:LYS:HE2	1.80	0.63
6:AV:394:LYS:HA	6:AV:394:LYS:HE3	1.81	0.63
6:AX:287:ASP:HB3	6:AX:290:LYS:HE2	1.80	0.63
6:Aj:287:ASP:HB3	6:Aj:290:LYS:HE2	1.80	0.63
9:Ay:147:LEU:CD1	6:WH:166:VAL:HG11	2.28	0.63
6:WO:196:HIS:HB3	6:WP:211:THR:HG21	1.80	0.63
2:f:193:ASP:OD2	2:g:23:ARG:NH2	2.31	0.63
2:p:117:ARG:NH1	2:p:145:GLY:HA3	2.13	0.63
2:x:117:ARG:NH1	2:x:145:GLY:HA3	2.13	0.63
3:9:16:GLN:NE2	3:9:20:ASP:OD1	2.32	0.63
4:ZH:162:ASP:OD1	4:ZH:274:ASN:ND2	2.30	0.63
4:ZW:17:LEU:HD13	4:Zb:395:ILE:HD11	1.81	0.63
6:AY:235:LEU:HD22	6:AZ:244:ARG:HH12	1.63	0.63
6:Ak:394:LYS:HE3	6:Ak:394:LYS:HA	1.80	0.63
6:AO:235:LEU:HD22	6:AP:244:ARG:HH12	1.63	0.63
6:AP:359:GLN:CD	12:BA:55:PRO:HG3	2.23	0.63
9:Ay:147:LEU:HD12	6:WH:166:VAL:CG1	2.28	0.63
6:WP:214:ASP:OD1	6:WP:218:HIS:HB2	1.99	0.63
1:M:102:THR:CG2	1:N:130:ASN:ND2	2.61	0.63
2:c:273:CYS:CB	2:d:264:MET:O	2.40	0.63
2:k:193:ASP:OD2	2:l:23:ARG:NH2	2.31	0.63
2:n:117:ARG:NH1	2:n:145:GLY:HA3	2.13	0.63
2:z:33:GLU:HG2	2:z:95:PRO:HD3	1.81	0.63
4:ZW:281:GLN:NE2	4:ZW:283:GLY:O	2.29	0.63
6:AR:244:ARG:HH12	6:Aa:235:LEU:HD22	1.63	0.63
6:Am:287:ASP:HB3	6:Am:290:LYS:HE2	1.80	0.63
6:AO:287:ASP:HB3	6:AO:290:LYS:HE2	1.80	0.63
11:A0:84:ASP:OD2	6:BW:303:GLN:NE2	2.31	0.63
6:WG:139:GLU:HB3	6:WH:154:ARG:NH2	2.14	0.63
6:BU:287:ASP:HB3	6:BU:290:LYS:HE2	1.80	0.63
1:T:102:THR:CG2	1:U:130:ASN:ND2	2.61	0.63
2:a:193:ASP:OD2	2:b:23:ARG:NH2	2.31	0.63
2:g:117:ARG:NH1	2:g:145:GLY:HA3	2.13	0.63
2:i:273:CYS:CB	2:j:264:MET:O	2.40	0.63
2:m:117:ARG:NH1	2:m:145:GLY:HA3	2.13	0.63
2:p:193:ASP:OD2	2:q:23:ARG:NH2	2.32	0.63
2:v:33:GLU:HG2	2:v:95:PRO:HD3	1.81	0.63
2:w:117:ARG:NH1	2:w:145:GLY:HA3	2.13	0.63
3:1:193:ILE:HG22	5:AE:152:PRO:CG	2.29	0.63
4:ZI:373:VAL:HG21	4:ZO:10:LEU:CD2	2.28	0.63
4:Zb:199:TYR:HB2	4:Zb:211:TYR:HB2	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Zh:112:GLN:OE1	4:Zh:112:GLN:N	2.32	0.63
5:AE:165:LYS:HB2	5:AE:199:ILE:HD11	1.81	0.63
6:AV:235:LEU:HD22	6:AW:244:ARG:HH12	1.63	0.63
6:Ac:287:ASP:HB3	6:Ac:290:LYS:HE2	1.80	0.63
6:Ah:235:LEU:HD22	6:Ai:244:ARG:HH12	1.63	0.63
6:Aj:372:ILE:HG21	10:A1:11:ILE:HG23	1.76	0.63
6:Ak:363:THR:HG23	11:A7:65:LEU:HD21	1.80	0.63
6:Al:394:LYS:HA	6:Al:394:LYS:HE3	1.80	0.63
6:WD:200:SER:HG	6:WE:175:SER:HB2	1.64	0.63
6:WG:193:ALA:HB1	6:WH:213:VAL:HG11	1.81	0.63
12:BC:20:ARG:NH1	6:BL:313:PRO:O	2.32	0.63
6:BT:287:ASP:HB3	6:BT:290:LYS:HE2	1.80	0.63
2:l:117:ARG:NH1	2:l:145:GLY:HA3	2.13	0.63
2:q:117:ARG:NH1	2:q:145:GLY:HA3	2.13	0.63
4:ZP:217:ASP:HB3	4:ZP:220:ALA:HB2	1.80	0.63
4:ZQ:112:GLN:OE1	4:ZQ:112:GLN:N	2.31	0.63
4:ZT:87:ASP:HB3	4:ZT:114:MET:HE2	1.80	0.63
5:AE:91:GLN:HB2	5:AE:121:ILE:HD11	1.80	0.63
5:AE:231:MET:HE1	3:AJ:257:LEU:HD13	1.79	0.63
3:AN:22:ILE:HD11	3:AN:232:ASN:HB3	1.81	0.63
6:AZ:287:ASP:HB3	6:AZ:290:LYS:HE2	1.80	0.63
6:Ak:235:LEU:HD22	6:Al:244:ARG:HH12	1.63	0.63
6:Ak:287:ASP:HB3	6:Ak:290:LYS:HE2	1.80	0.63
6:Am:295:SER:HB2	11:A7:73:ILE:CG1	2.22	0.63
6:Ao:235:LEU:HD22	6:Ap:244:ARG:HH12	1.63	0.63
6:WS:168:GLU:HB3	6:WS:170:LYS:HE3	1.81	0.63
6:BX:394:LYS:HA	6:BX:394:LYS:HE3	1.80	0.63
3:ZA:240:TYR:CD2	4:ZF:395:ILE:HG23	2.34	0.62
4:ZH:78:SER:O	4:ZH:354:GLY:HA3	1.99	0.62
4:ZK:167:LYS:NZ	4:ZK:168:THR:O	2.31	0.62
3:AL:88:GLN:HB2	3:AL:218:TYR:CE1	2.34	0.62
6:AT:287:ASP:HB3	6:AT:290:LYS:HE2	1.80	0.62
6:Ac:235:LEU:HD22	6:Ad:244:ARG:HH12	1.63	0.62
6:Ai:287:ASP:HB3	6:Ai:290:LYS:HE2	1.80	0.62
6:UM:103:GLN:CD	6:WQ:182:PRO:CB	2.71	0.62
6:WL:186:LEU:HA	6:WL:190:GLN:OE1	1.99	0.62
6:BR:235:LEU:HD22	6:BS:244:ARG:HH12	1.63	0.62
6:BR:394:LYS:HA	6:BR:394:LYS:HE3	1.80	0.62
6:BS:287:ASP:HB3	6:BS:290:LYS:HE2	1.81	0.62
2:a:33:GLU:HG2	2:a:95:PRO:HD3	1.81	0.62
2:k:117:ARG:NH1	2:k:145:GLY:HA3	2.13	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:r:117:ARG:NH1	2:r:145:GLY:HA3	2.13	0.62
2:s:117:ARG:NH1	2:s:145:GLY:HA3	2.13	0.62
3:8:36:ARG:HB3	3:8:224:VAL:HG22	1.81	0.62
3:9:42:GLU:OE2	3:9:73:ARG:NE	2.27	0.62
4:ZX:242:GLY:O	4:ZX:263:PHE:N	2.30	0.62
5:AB:37:GLN:OE1	5:AB:173:ARG:NH1	2.30	0.62
3:AF:6:TRP:CE2	12:BA:77:VAL:HG13	2.30	0.62
3:AG:82:SER:OG	3:AG:223:ASN:ND2	2.32	0.62
6:Af:297:GLN:HE22	11:A8:76:GLN:H	1.46	0.62
6:AO:394:LYS:HE3	6:AO:394:LYS:HA	1.80	0.62
7:Ar:23:PRO:O	7:Ar:27:VAL:HG12	1.99	0.62
9:Aw:116:PHE:O	11:A8:4:ARG:NH2	2.30	0.62
9:Ay:229:VAL:O	9:Ay:230:ASP:C	2.41	0.62
6:WI:200:SER:OG	6:WJ:175:SER:HB2	2.00	0.62
6:BV:287:ASP:HB3	6:BV:290:LYS:HE2	1.80	0.62
2:j:54:GLN:CD	3:AJ:139:ALA:CB	2.73	0.62
2:u:33:GLU:HG2	2:u:95:PRO:HD3	1.81	0.62
3:O:70:THR:CG2	5:AD:71:LEU:HB2	2.28	0.62
3:ZA:70:THR:HG22	3:ZA:71:GLY:H	1.64	0.62
3:ZD:237:GLN:O	3:ZD:241:GLU:HG2	2.00	0.62
5:AB:239:GLU:OE1	12:BC:113:GLN:NE2	2.31	0.62
6:AT:235:LEU:HD22	6:AU:244:ARG:HH12	1.63	0.62
6:Ae:372:ILE:HG22	10:A2:4:ILE:CG1	2.29	0.62
6:Af:287:ASP:HB3	6:Af:290:LYS:HE2	1.80	0.62
6:Am:235:LEU:HD22	6:An:244:ARG:HH12	1.63	0.62
9:Av:148:ALA:HB1	6:WU:165:PHE:HA	1.80	0.62
6:UI:167:ARG:NH2	6:WW:188:GLU:HB3	2.13	0.62
6:WA:187:ASP:CG	6:WA:190:GLN:HG3	2.24	0.62
6:WQ:128:GLU:HG2	6:WR:126:PHE:CD2	2.34	0.62
1:S:51:ILE:HG13	2:p:175:LEU:HD11	1.82	0.62
2:d:53:THR:HG21	3:AK:209:ASN:CG	2.23	0.62
2:h:117:ARG:NH1	2:h:145:GLY:HA3	2.13	0.62
2:j:117:ARG:NH1	2:j:145:GLY:HA3	2.13	0.62
2:q:272:SER:HA	2:q:322:VAL:O	2.00	0.62
2:t:272:SER:HA	2:t:322:VAL:O	2.00	0.62
2:v:193:ASP:OD2	2:w:23:ARG:NH2	2.31	0.62
3:ZA:259:GLN:O	3:ZA:260:LEU:C	2.42	0.62
4:ZI:111:MET:CE	4:ZN:58:THR:HB	2.29	0.62
4:ZM:223:PRO:HD2	4:ZM:223:PRO:O	1.97	0.62
4:ZW:285:LYS:O	4:ZW:306:ASN:ND2	2.29	0.62
6:AY:287:ASP:HB3	6:AY:290:LYS:HE2	1.80	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AU:60:MET:HE1	9:AV:91:GLY:HA3	1.81	0.62
9:AU:162:PRO:HD2	9:AU:163:GLU:N	2.14	0.62
6:BR:287:ASP:HB3	6:BR:290:LYS:HE2	1.80	0.62
6:BS:394:LYS:HA	6:BS:394:LYS:HE3	1.80	0.62
6:BU:394:LYS:HA	6:BU:394:LYS:HE3	1.80	0.62
6:BW:394:LYS:HA	6:BW:394:LYS:HE3	1.80	0.62
1:E:51:ILE:HG13	2:b:175:LEU:HD11	1.82	0.62
1:F:51:ILE:HG13	2:c:175:LEU:HD11	1.82	0.62
1:Q:51:ILE:HG13	2:n:175:LEU:HD11	1.82	0.62
2:n:273:CYS:CB	2:o:264:MET:O	2.40	0.62
2:p:272:SER:HA	2:p:322:VAL:O	2.00	0.62
2:r:272:SER:HA	2:r:322:VAL:O	2.00	0.62
2:v:117:ARG:NH1	2:v:145:GLY:HA3	2.13	0.62
2:y:198:GLN:NE2	2:z:234:ARG:HH11	1.98	0.62
6:AM:394:LYS:HA	6:AM:394:LYS:HE3	1.80	0.62
6:AP:394:LYS:HA	6:AP:394:LYS:HE3	1.80	0.62
6:BT:235:LEU:HD22	6:BU:244:ARG:HH12	1.63	0.62
1:D:51:ILE:HG13	2:a:175:LEU:HD11	1.82	0.62
1:G:51:ILE:HG13	2:d:175:LEU:HD11	1.82	0.62
1:R:51:ILE:HG13	2:o:175:LEU:HD11	1.82	0.62
2:b:33:GLU:HG2	2:b:95:PRO:HD3	1.81	0.62
2:g:198:GLN:NE2	2:h:234:ARG:HH11	1.98	0.62
2:j:198:GLN:NE2	2:k:234:ARG:HH11	1.98	0.62
2:k:198:GLN:NE2	2:l:234:ARG:HH11	1.98	0.62
2:l:198:GLN:NE2	2:m:234:ARG:HH11	1.98	0.62
2:o:272:SER:HA	2:o:322:VAL:O	2.00	0.62
2:q:198:GLN:NE2	2:r:234:ARG:HH11	1.98	0.62
2:s:272:SER:HA	2:s:322:VAL:O	2.00	0.62
2:t:198:GLN:NE2	2:u:234:ARG:HH11	1.98	0.62
2:u:272:SER:HA	2:u:322:VAL:O	2.00	0.62
2:v:198:GLN:NE2	2:w:234:ARG:HH11	1.98	0.62
3:7:22:ILE:HG21	3:7:233:MET:HG3	1.81	0.62
4:ZL:367:ASP:HB3	4:ZL:370:LYS:HG2	1.82	0.62
4:ZN:34:SER:HB3	4:ZN:366:VAL:HG22	1.82	0.62
4:ZR:180:LYS:HB3	4:ZR:200:PHE:CD1	2.34	0.62
5:AE:232:LYS:HE2	3:AK:260:LEU:O	1.98	0.62
6:Ag:295:SER:CB	11:A8:72:HIS:CB	2.73	0.62
9:AV:67:ILE:HD12	9:AV:239:LEU:HD13	1.81	0.62
1:P:51:ILE:HG13	2:m:175:LEU:HD11	1.82	0.62
1:T:51:ILE:HG13	2:q:175:LEU:HD11	1.82	0.62
2:b:198:GLN:NE2	2:c:234:ARG:HH11	1.98	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g:193:ASP:OD2	2:h:23:ARG:NH2	2.31	0.62
2:n:33:GLU:HG2	2:n:95:PRO:HD3	1.81	0.62
2:o:198:GLN:NE2	2:p:234:ARG:HH11	1.98	0.62
2:t:117:ARG:NH1	2:t:145:GLY:HA3	2.13	0.62
2:w:198:GLN:NE2	2:x:234:ARG:HH11	1.98	0.62
3:2:42:GLU:HB3	3:2:75:VAL:HG23	1.81	0.62
4:ZH:238:LEU:HD21	4:ZH:242:GLY:HA3	1.81	0.62
4:ZL:331:ASP:HA	4:ZQ:40:ALA:HB1	1.80	0.62
5:AC:165:LYS:O	5:AC:189:ARG:NH2	2.33	0.62
5:AE:109:PRO:HG3	3:AJ:197:SER:HA	1.81	0.62
6:AZ:236:LYS:HE2	6:UP:167:ARG:HH11	1.62	0.62
6:Ae:287:ASP:HB3	6:Ae:290:LYS:HE2	1.80	0.62
6:Ag:287:ASP:HB3	6:Ag:290:LYS:HE2	1.80	0.62
7:Aq:24:LEU:HD22	7:Aq:58:VAL:HG13	1.81	0.62
9:Ay:45:LEU:HG	10:A5:89:ARG:HD3	1.81	0.62
6:WQ:128:GLU:HG2	6:WR:126:PHE:HD2	1.65	0.62
6:WS:197:LEU:HD12	6:WT:175:SER:HB3	1.81	0.62
6:BV:235:LEU:HD22	6:BW:244:ARG:HH12	1.63	0.62
6:BV:394:LYS:HA	6:BV:394:LYS:HE3	1.80	0.62
1:C:51:ILE:HG13	2:z:175:LEU:HD11	1.82	0.62
1:H:51:ILE:HG13	2:e:175:LEU:HD11	1.82	0.62
2:a:65:MET:SD	2:z:88:MET:HE2	2.40	0.62
2:a:198:GLN:NE2	2:b:234:ARG:HH11	1.98	0.62
2:d:198:GLN:NE2	2:e:234:ARG:HH11	1.98	0.62
2:e:198:GLN:NE2	2:f:234:ARG:HH11	1.98	0.62
2:i:117:ARG:NH1	2:i:145:GLY:HA3	2.13	0.62
2:i:198:GLN:NE2	2:j:234:ARG:HH11	1.98	0.62
2:k:33:GLU:HG2	2:k:95:PRO:HD3	1.81	0.62
2:l:33:GLU:HG2	2:l:95:PRO:HD3	1.81	0.62
2:m:33:GLU:HG2	2:m:95:PRO:HD3	1.81	0.62
2:n:272:SER:HA	2:n:322:VAL:O	2.00	0.62
2:o:33:GLU:HG2	2:o:95:PRO:HD3	1.80	0.62
2:r:198:GLN:NE2	2:s:234:ARG:HH11	1.98	0.62
2:t:33:GLU:HG2	2:t:95:PRO:HD3	1.81	0.62
2:v:272:SER:HA	2:v:322:VAL:O	2.00	0.62
2:x:198:GLN:NE2	2:y:234:ARG:HH11	1.98	0.62
2:y:88:MET:HE2	2:z:65:MET:SD	2.40	0.62
3:5:70:THR:HG22	3:5:71:GLY:H	1.65	0.62
3:AJ:47:GLN:NE2	12:BE:76:LEU:HD12	2.14	0.62
6:Al:287:ASP:HB3	6:Al:290:LYS:HE2	1.80	0.62
6:An:394:LYS:HA	6:An:394:LYS:HE3	1.80	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:At:105:GLN:NE2	9:Au:216:THR:O	2.33	0.62
9:Ax:160:GLN:CG	6:WE:166:VAL:CG2	2.78	0.62
1:C:228:ASN:OD1	1:D:215:GLU:OE2	2.18	0.62
1:O:51:ILE:HG13	2:l:175:LEU:HD11	1.82	0.62
2:b:88:MET:HE2	2:c:65:MET:SD	2.40	0.62
2:f:198:GLN:NE2	2:g:234:ARG:HH11	1.98	0.62
2:m:198:GLN:NE2	2:n:234:ARG:HH11	1.98	0.62
2:q:193:ASP:OD2	2:r:23:ARG:NH2	2.31	0.62
2:t:88:MET:HE2	2:u:65:MET:SD	2.40	0.62
2:u:88:MET:HE2	2:v:65:MET:SD	2.40	0.62
2:v:88:MET:HE2	2:w:65:MET:SD	2.40	0.62
2:x:88:MET:HE2	2:y:65:MET:SD	2.40	0.62
3:8:70:THR:HG22	3:8:71:GLY:H	1.65	0.62
3:ZA:37:GLN:HE22	4:ZF:43:PHE:HE1	1.48	0.62
3:ZB:163:GLY:O	3:ZB:164:GLN:C	2.43	0.62
5:AC:184:GLU:OE2	3:AH:55:GLN:C	2.42	0.62
6:AS:244:ARG:HH12	6:BX:235:LEU:HD22	1.63	0.62
6:Ap:394:LYS:HA	6:Ap:394:LYS:HE3	1.80	0.62
6:AQ:394:LYS:HA	6:AQ:394:LYS:HE3	1.80	0.62
9:Aw:52:THR:OG1	10:A2:91:LYS:NZ	2.28	0.62
11:A8:65:LEU:C	11:A8:65:LEU:HD12	2.25	0.62
6:WK:197:LEU:HD11	6:WL:156:HIS:HD2	1.63	0.62
6:BW:287:ASP:HB3	6:BW:290:LYS:HE2	1.80	0.62
1:B:228:ASN:OD1	1:C:215:GLU:OE2	2.18	0.62
1:I:51:ILE:HG13	2:f:175:LEU:HD11	1.82	0.62
1:U:51:ILE:HG13	2:r:175:LEU:HD11	1.82	0.62
2:a:88:MET:HE2	2:b:65:MET:SD	2.40	0.62
2:b:193:ASP:OD2	2:c:23:ARG:NH2	2.32	0.62
2:b:272:SER:HA	2:b:322:VAL:O	2.00	0.62
2:c:33:GLU:HG2	2:c:95:PRO:HD3	1.80	0.62
2:j:33:GLU:HG2	2:j:95:PRO:HD3	1.81	0.62
2:m:272:SER:HA	2:m:322:VAL:O	2.00	0.62
2:p:33:GLU:HG2	2:p:95:PRO:HD3	1.81	0.62
2:p:198:GLN:NE2	2:q:234:ARG:HH11	1.98	0.62
2:s:198:GLN:NE2	2:t:234:ARG:HH11	1.98	0.62
2:u:117:ARG:NH1	2:u:145:GLY:HA3	2.13	0.62
2:w:88:MET:HE2	2:x:65:MET:SD	2.40	0.62
2:w:272:SER:HA	2:w:322:VAL:O	2.00	0.62
4:ZP:146:ALA:HB2	4:ZP:286:PRO:HD3	1.82	0.62
4:ZX:17:LEU:HD13	4:Zc:395:ILE:HD11	1.81	0.62
4:Zb:97:ASN:OD1	4:Zb:99:GLN:NE2	2.32	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AJ:142:ILE:HD13	3:AJ:149:ILE:HG12	1.82	0.62
6:AS:299:ASN:HD21	11:A0:78:VAL:HG12	1.62	0.62
6:Af:365:ASN:HB3	11:A8:72:HIS:CE1	2.33	0.62
8:At:185:MET:O	8:At:186:LEU:C	2.42	0.62
1:A:228:ASN:OD1	1:B:215:GLU:OE2	2.18	0.61
1:D:228:ASN:OD1	1:E:215:GLU:OE2	2.18	0.61
1:E:228:ASN:OD1	1:F:215:GLU:OE2	2.18	0.61
1:F:228:ASN:OD1	1:G:215:GLU:OE2	2.18	0.61
1:J:228:ASN:OD1	1:K:215:GLU:OE2	2.18	0.61
2:a:234:ARG:HH11	2:z:198:GLN:NE2	1.98	0.61
2:a:272:SER:HA	2:a:322:VAL:O	2.00	0.61
2:c:88:MET:HE2	2:d:65:MET:SD	2.40	0.61
2:c:272:SER:HA	2:c:322:VAL:O	2.00	0.61
2:d:88:MET:HE2	2:e:65:MET:SD	2.40	0.61
2:d:272:SER:HA	2:d:322:VAL:O	2.00	0.61
2:i:33:GLU:HG2	2:i:95:PRO:HD3	1.80	0.61
2:l:193:ASP:OD2	2:m:23:ARG:NH2	2.32	0.61
2:q:33:GLU:HG2	2:q:95:PRO:HD3	1.80	0.61
2:z:272:SER:HA	2:z:322:VAL:O	2.00	0.61
3:ZB:24:ASN:OD1	3:ZB:37:GLN:NE2	2.33	0.61
3:ZB:175:LEU:HG	3:ZB:206:PRO:HG3	1.82	0.61
4:ZO:18:ASP:HA	4:ZT:5:GLN:HE22	1.64	0.61
4:ZS:319:ASN:ND2	4:ZS:352:ASN:OD1	2.33	0.61
3:AL:49:ILE:HD12	3:AL:66:LEU:HD11	1.81	0.61
6:Ad:287:ASP:HB3	6:Ad:290:LYS:HE2	1.80	0.61
6:Ak:372:ILE:HG21	10:A1:4:ILE:HG13	1.82	0.61
6:AP:287:ASP:HB3	6:AP:290:LYS:HE2	1.80	0.61
9:Ay:83:ALA:O	9:Ay:84:PRO:C	2.39	0.61
10:A2:75:MET:HE1	11:A7:122:VAL:HG13	1.82	0.61
6:UK:161:LYS:O	6:UK:162:PRO:C	2.43	0.61
6:UN:73:MET:HE3	6:UN:99:ARG:HD3	1.81	0.61
6:UO:103:GLN:NE2	6:WU:182:PRO:CB	2.63	0.61
1:A:215:GLU:OE2	1:Z:228:ASN:OD1	2.18	0.61
1:B:51:ILE:HG13	2:y:175:LEU:HD11	1.82	0.61
1:I:228:ASN:OD1	1:J:215:GLU:OE2	2.18	0.61
1:K:228:ASN:OD1	1:L:215:GLU:OE2	2.18	0.61
1:L:228:ASN:OD1	1:M:215:GLU:OE2	2.18	0.61
1:N:228:ASN:OD1	1:O:215:GLU:OE2	2.18	0.61
1:V:51:ILE:HG13	2:s:175:LEU:HD11	1.82	0.61
2:c:198:GLN:NE2	2:d:234:ARG:HH11	1.98	0.61
2:e:88:MET:HE2	2:f:65:MET:SD	2.40	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:198:GLN:NE2	2:i:234:ARG:HH11	1.98	0.61
2:n:198:GLN:NE2	2:o:234:ARG:HH11	1.98	0.61
2:r:88:MET:HE2	2:s:65:MET:SD	2.40	0.61
2:s:88:MET:HE2	2:t:65:MET:SD	2.40	0.61
2:w:273:CYS:CB	2:x:264:MET:O	2.40	0.61
3:1:100:GLN:OE1	3:1:100:GLN:N	2.30	0.61
3:ZC:88:GLN:HE21	4:ZN:53:LYS:HB2	1.63	0.61
4:ZT:27:SER:OG	4:ZY:381:ASN:OD1	2.13	0.61
4:ZY:104:GLU:OE2	4:ZY:104:GLU:N	2.26	0.61
6:AS:287:ASP:HB3	6:AS:290:LYS:HE2	1.80	0.61
6:Ah:287:ASP:HB3	6:Ah:290:LYS:HE2	1.80	0.61
7:As:70:LEU:O	7:As:74:LEU:HG	2.01	0.61
6:UM:161:LYS:O	6:UM:162:PRO:C	2.43	0.61
6:WT:128:GLU:HG2	6:WU:126:PHE:CD2	2.35	0.61
1:G:228:ASN:OD1	1:H:215:GLU:OE2	2.18	0.61
1:M:228:ASN:OD1	1:N:215:GLU:OE2	2.18	0.61
1:Y:228:ASN:OD1	1:Z:215:GLU:OE2	2.18	0.61
2:h:33:GLU:HG2	2:h:95:PRO:HD3	1.81	0.61
2:h:273:CYS:CB	2:i:264:MET:O	2.40	0.61
2:k:272:SER:HA	2:k:322:VAL:O	2.00	0.61
2:l:272:SER:HA	2:l:322:VAL:O	2.00	0.61
2:m:88:MET:HE2	2:n:65:MET:SD	2.40	0.61
2:o:88:MET:HE2	2:p:65:MET:SD	2.40	0.61
2:u:198:GLN:NE2	2:v:234:ARG:HH11	1.98	0.61
2:x:272:SER:HA	2:x:322:VAL:O	2.00	0.61
4:Zc:396:LEU:O	4:Zc:400:VAL:HG23	2.00	0.61
3:AM:109:ASP:OD2	3:AM:111:THR:OG1	2.15	0.61
6:Ag:277:GLN:HB3	6:Ag:377:MET:HE1	1.83	0.61
6:Ao:394:LYS:HA	6:Ao:394:LYS:HE3	1.80	0.61
6:AQ:287:ASP:HB3	6:AQ:290:LYS:HE2	1.80	0.61
7:As:9:MET:HE2	9:Ay:191:ILE:HG13	1.81	0.61
7:As:46:GLU:HB2	7:As:49:LEU:HD23	1.82	0.61
6:UK:73:MET:HE3	6:UK:99:ARG:HD3	1.81	0.61
6:UL:208:GLY:N	6:WG:187:ASP:OD2	2.33	0.61
6:WI:190:GLN:HG2	6:WJ:217:GLY:HA3	1.82	0.61
6:WO:197:LEU:CD1	6:WP:175:SER:OG	2.42	0.61
6:BQ:319:GLN:NE2	6:BW:305:GLY:O	2.33	0.61
1:H:228:ASN:OD1	1:I:215:GLU:OE2	2.18	0.61
1:J:51:ILE:HG13	2:g:175:LEU:HD11	1.82	0.61
1:N:51:ILE:HG13	2:k:175:LEU:HD11	1.82	0.61
1:O:228:ASN:OD1	1:P:215:GLU:OE2	2.18	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:272:SER:HA	2:e:322:VAL:O	2.00	0.61
2:f:88:MET:HE2	2:g:65:MET:SD	2.40	0.61
2:q:88:MET:HE2	2:r:65:MET:SD	2.40	0.61
2:s:33:GLU:HG2	2:s:95:PRO:HD3	1.81	0.61
3:2:49:ILE:HG21	3:2:66:LEU:HD23	1.82	0.61
3:4:254:LEU:O	3:4:258:THR:HG23	2.01	0.61
3:ZC:10:THR:HG21	3:ZC:71:GLY:HA3	1.83	0.61
3:ZE:231:VAL:HG11	4:ZK:7:VAL:HG22	1.82	0.61
4:ZH:281:GLN:OE1	4:ZH:283:GLY:N	2.32	0.61
4:ZW:322:ASN:HB3	4:ZW:340:SER:HA	1.82	0.61
5:AD:27:ALA:HB1	3:AI:72:VAL:CG1	2.30	0.61
3:AL:3:SER:O	3:AL:5:LEU:N	2.32	0.61
6:Ac:277:GLN:HB3	6:Ac:377:MET:HE1	1.83	0.61
6:Ae:277:GLN:HB3	6:Ae:377:MET:HE1	1.83	0.61
6:Ah:277:GLN:HB3	6:Ah:377:MET:HE1	1.83	0.61
6:Aj:277:GLN:HB3	6:Aj:377:MET:HE1	1.83	0.61
8:At:114:VAL:HG12	9:Av:213:PRO:HB3	1.81	0.61
6:WI:190:GLN:NE2	6:WJ:216:SER:O	2.33	0.61
1:P:228:ASN:OD1	1:Q:215:GLU:OE2	2.18	0.61
1:R:228:ASN:OD1	1:S:215:GLU:OE2	2.18	0.61
1:S:228:ASN:OD1	1:T:215:GLU:OE2	2.18	0.61
1:U:228:ASN:OD1	1:V:215:GLU:OE2	2.18	0.61
1:V:228:ASN:OD1	1:W:215:GLU:OE2	2.18	0.61
1:W:228:ASN:OD1	1:X:215:GLU:OE2	2.18	0.61
1:X:228:ASN:OD1	1:Y:215:GLU:OE2	2.18	0.61
2:b:273:CYS:CB	2:c:264:MET:O	2.40	0.61
2:g:33:GLU:HG2	2:g:95:PRO:HD3	1.81	0.61
2:g:88:MET:HE2	2:h:65:MET:SD	2.40	0.61
2:s:51:GLN:HE22	3:AH:172:GLN:CD	2.08	0.61
2:y:272:SER:HA	2:y:322:VAL:O	2.00	0.61
3:5:94:ASP:OD2	3:ZA:38:ARG:NH1	2.32	0.61
4:ZK:112:GLN:N	4:ZK:112:GLN:OE1	2.33	0.61
4:ZQ:355:LYS:NZ	4:ZW:87:ASP:OD1	2.31	0.61
5:AB:133:SER:HA	5:AB:148:PRO:HD3	1.82	0.61
3:AG:256:LYS:HD2	3:AG:259:GLN:HE21	1.63	0.61
3:AH:52:PRO:HA	3:AH:64:SER:O	2.00	0.61
3:AJ:47:GLN:HE21	12:BE:76:LEU:HD12	1.64	0.61
6:Af:277:GLN:HB3	6:Af:377:MET:HE1	1.83	0.61
6:WO:128:GLU:HG2	6:WP:126:PHE:HD2	1.64	0.61
1:A:51:ILE:HG13	2:x:175:LEU:HD11	1.82	0.61
1:Q:228:ASN:OD1	1:R:215:GLU:OE2	2.18	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:228:ASN:OD1	1:U:215:GLU:OE2	2.18	0.61
1:W:51:ILE:HG13	2:t:175:LEU:HD11	1.82	0.61
2:j:272:SER:HA	2:j:322:VAL:O	2.00	0.61
2:k:88:MET:HE2	2:l:65:MET:SD	2.40	0.61
2:p:88:MET:HE2	2:q:65:MET:SD	2.40	0.61
2:r:33:GLU:HG2	2:r:95:PRO:HD3	1.80	0.61
2:w:193:ASP:OD2	2:x:23:ARG:NH2	2.31	0.61
3:1:193:ILE:HG21	5:AE:152:PRO:CD	2.30	0.61
3:4:50:ARG:HD3	3:4:62:LEU:HD11	1.82	0.61
4:ZU:294:ILE:O	4:ZU:358:ASN:ND2	2.30	0.61
4:Za:2:SER:OG	4:Za:3:PHE:N	2.34	0.61
4:Zg:385:ASN:O	4:Zg:388:THR:N	2.33	0.61
5:AD:146:LEU:HD13	5:AD:155:VAL:HG22	1.83	0.61
5:AE:232:LYS:CE	3:AK:260:LEU:C	2.68	0.61
7:Ab:66:GLY:HA2	7:Ab:69:MET:HE2	1.82	0.61
9:Av:82:SER:HA	10:Az:103:GLN:NE2	2.15	0.61
11:A6:23:GLN:NE2	12:BA:125:MET:HE1	2.15	0.61
6:UO:161:LYS:O	6:UO:162:PRO:C	2.43	0.61
6:WB:212:LEU:HB3	6:WB:221:THR:HG23	1.81	0.61
2:f:272:SER:HA	2:f:322:VAL:O	2.00	0.61
2:i:88:MET:HE2	2:j:65:MET:SD	2.40	0.61
6:Ad:277:GLN:HB3	6:Ad:377:MET:HE1	1.83	0.61
6:Ai:277:GLN:HB3	6:Ai:377:MET:HE1	1.83	0.61
6:Ak:277:GLN:HB3	6:Ak:377:MET:HE1	1.83	0.61
6:Al:277:GLN:HB3	6:Al:377:MET:HE1	1.83	0.61
7:Aq:2:THR:HG21	6:WW:125:GLN:OE1	1.98	0.61
10:A2:11:ILE:HD12	10:A2:12:SER:CA	2.31	0.61
10:A5:11:ILE:CG2	6:BR:372:ILE:CG2	2.78	0.61
6:BT:394:LYS:HA	6:BT:394:LYS:HE3	1.80	0.61
1:M:51:ILE:HG13	2:j:175:LEU:HD11	1.82	0.61
2:d:33:GLU:HG2	2:d:95:PRO:HD3	1.80	0.61
2:h:88:MET:HE2	2:i:65:MET:SD	2.40	0.61
2:r:273:CYS:CB	2:s:264:MET:O	2.40	0.61
3:9:20:ASP:OD1	3:ZE:4:SER:OG	2.18	0.61
3:ZA:34:PHE:HB3	3:ZA:222:SER:HB3	1.82	0.61
4:ZW:349:GLY:O	4:Zc:89:ASN:ND2	2.34	0.61
5:AE:231:MET:HE2	3:AJ:257:LEU:CA	2.31	0.61
3:AF:79:ARG:NH2	3:AF:186:SER:OG	2.33	0.61
9:AU:52:THR:OG1	10:Az:91:LYS:NZ	2.34	0.61
10:A4:14:LEU:CD1	6:BX:370:ARG:HH21	2.10	0.61
6:UL:161:LYS:O	6:UL:162:PRO:C	2.43	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WP:128:GLU:HG3	6:WQ:126:PHE:CE2	2.35	0.61
6:BX:287:ASP:HB3	6:BX:290:LYS:HE2	1.80	0.61
1:H:59:ASN:HD21	2:f:130:ASP:HB2	1.66	0.61
1:J:59:ASN:HD21	2:h:130:ASP:HB2	1.66	0.61
1:K:51:ILE:HG13	2:h:175:LEU:HD11	1.82	0.61
2:f:33:GLU:HG2	2:f:95:PRO:HD3	1.81	0.61
4:ZN:165:PRO:HG2	4:ZN:201:VAL:HG23	1.82	0.61
4:ZV:178:TYR:HA	4:ZV:201:VAL:HG22	1.83	0.61
4:ZW:178:TYR:HA	4:ZW:201:VAL:HG22	1.83	0.61
6:AR:277:GLN:HB3	6:AR:377:MET:HE1	1.83	0.61
6:An:277:GLN:HB3	6:An:377:MET:HE1	1.83	0.61
8:At:145:TRP:CD1	6:WJ:164:LEU:CB	2.83	0.61
11:A7:51:LYS:NZ	11:A7:84:ASP:OD1	2.34	0.61
2:g:272:SER:HA	2:g:322:VAL:O	2.00	0.61
2:i:272:SER:HA	2:i:322:VAL:O	2.00	0.61
3:3:88:GLN:HB2	3:3:218:TYR:CE2	2.36	0.61
4:ZF:107:ASN:ND2	4:ZF:138:THR:OG1	2.34	0.61
4:ZJ:370:LYS:HE3	4:ZP:11:ASN:ND2	2.15	0.61
4:ZL:83:PHE:HB2	4:ZL:95:SER:O	2.01	0.61
4:ZN:379:GLN:HG3	4:ZS:391:THR:HG23	1.82	0.61
4:ZR:146:ALA:HB2	4:ZR:286:PRO:HD3	1.83	0.61
4:ZY:383:GLN:HG2	4:Zd:398:THR:HG21	1.82	0.61
4:Zc:42:MET:HG2	4:Zc:53:LYS:HE3	1.83	0.61
5:AB:223:ASN:HB3	3:AG:253:MET:HE1	1.83	0.61
5:AC:26:LEU:HD13	3:AH:242:ILE:HG22	1.82	0.61
3:AG:44:LEU:HD13	12:BB:78:TYR:HB2	1.83	0.61
6:Ae:372:ILE:HD13	10:A2:3:ALA:C	2.26	0.61
6:Am:277:GLN:HB3	6:Am:377:MET:HE1	1.83	0.61
9:Av:66:ARG:NE	9:Av:178:GLU:OE1	2.33	0.61
10:A2:11:ILE:CD1	10:A2:12:SER:N	2.55	0.61
6:UM:73:MET:HE3	6:UM:99:ARG:HD3	1.81	0.61
6:UP:73:MET:HE3	6:UP:99:ARG:HD3	1.81	0.61
12:BB:27:ASN:OD1	12:BB:42:TYR:OH	2.19	0.61
6:WH:197:LEU:HD12	6:WI:175:SER:HB3	1.82	0.61
6:WJ:186:LEU:HA	6:WJ:190:GLN:OE1	2.00	0.61
6:BU:277:GLN:HB3	6:BU:377:MET:HE1	1.83	0.61
1:L:59:ASN:HD21	2:j:130:ASP:HB2	1.66	0.60
1:V:59:ASN:HD21	2:t:130:ASP:HB2	1.66	0.60
1:Z:51:ILE:HG13	2:w:175:LEU:HD11	1.82	0.60
2:e:33:GLU:HG2	2:e:95:PRO:HD3	1.81	0.60
2:j:88:MET:HE2	2:k:65:MET:SD	2.40	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:88:MET:HE2	2:o:65:MET:SD	2.40	0.60
2:w:195:THR:HG21	2:x:241:ASN:HD21	1.66	0.60
2:x:195:THR:HG21	2:y:241:ASN:HD21	1.66	0.60
3:1:99:GLY:O	3:1:116:ARG:NH2	2.29	0.60
3:4:50:ARG:NH1	3:AN:75:VAL:HG13	2.16	0.60
4:ZO:170:PHE:HE2	4:ZO:178:TYR:HB3	1.65	0.60
4:ZS:295:ASN:ND2	4:ZS:299:THR:OG1	2.34	0.60
4:ZU:17:LEU:HD13	4:ZZ:395:ILE:HD11	1.82	0.60
3:AG:178:PHE:CE2	3:AG:184:LEU:HD21	2.36	0.60
6:AS:277:GLN:HB3	6:AS:377:MET:HE1	1.83	0.60
6:Aa:277:GLN:HB3	6:Aa:377:MET:HE1	1.83	0.60
10:A4:14:LEU:HD23	6:BW:278:THR:HG21	1.83	0.60
6:UP:161:LYS:O	6:UP:162:PRO:C	2.43	0.60
6:WA:197:LEU:HA	6:WB:175:SER:OG	2.00	0.60
6:WC:193:ALA:HB1	6:WD:213:VAL:CG1	2.30	0.60
6:WM:200:SER:O	6:WN:158:ALA:HB3	2.01	0.60
6:WP:190:GLN:NE2	6:WQ:216:SER:O	2.33	0.60
6:WR:212:LEU:HB3	6:WR:221:THR:HG23	1.82	0.60
6:BT:277:GLN:HB3	6:BT:377:MET:HE1	1.83	0.60
1:F:59:ASN:HD21	2:d:130:ASP:HB2	1.66	0.60
1:X:51:ILE:HG13	2:u:175:LEU:HD11	1.82	0.60
2:g:78:ASN:HD22	3:AK:125:ASN:ND2	1.99	0.60
2:h:272:SER:HA	2:h:322:VAL:O	2.00	0.60
2:l:88:MET:HE2	2:m:65:MET:SD	2.40	0.60
2:y:195:THR:HG21	2:z:241:ASN:HD21	1.66	0.60
3:5:75:VAL:O	3:ZA:50:ARG:NH1	2.33	0.60
3:9:259:GLN:O	3:9:260:LEU:C	2.44	0.60
4:ZT:187:TYR:HE2	4:ZT:285:LYS:HB2	1.65	0.60
5:AA:181:LEU:HD21	5:AA:193:LEU:HD11	1.81	0.60
5:AB:3:HIS:ND1	11:A7:94:SER:OG	2.33	0.60
5:AB:202:MET:HE3	3:AM:73:ARG:HH11	1.64	0.60
5:AC:26:LEU:HD13	3:AH:242:ILE:CG2	2.31	0.60
7:Ab:56:VAL:O	7:Ab:60:ILE:HG12	2.01	0.60
8:At:106:MET:SD	8:At:225:GLY:HA3	2.40	0.60
6:UI:161:LYS:O	6:UI:162:PRO:C	2.43	0.60
6:UM:126:PHE:CE1	6:UM:130:VAL:CG2	2.84	0.60
6:WD:117:ASP:O	6:WD:118:GLN:C	2.44	0.60
6:WE:197:LEU:CD1	6:WF:175:SER:OG	2.44	0.60
6:WI:164:LEU:HD23	6:WI:165:PHE:HB3	1.83	0.60
12:BE:12:SER:OG	12:BE:62:VAL:O	2.19	0.60
1:D:59:ASN:HD21	2:b:130:ASP:HB2	1.66	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:59:ASN:HD21	2:l:130:ASP:HB2	1.66	0.60
1:Q:59:ASN:HD21	2:o:130:ASP:HB2	1.66	0.60
1:Y:59:ASN:HD21	2:w:130:ASP:HB2	1.66	0.60
2:a:195:THR:HG21	2:b:241:ASN:HD21	1.66	0.60
2:a:241:ASN:HD21	2:z:195:THR:HG21	1.66	0.60
2:f:53:THR:HG21	3:AK:127:GLN:HE22	1.65	0.60
2:r:193:ASP:OD2	2:s:23:ARG:NH2	2.31	0.60
2:v:195:THR:HG21	2:w:241:ASN:HD21	1.66	0.60
2:z:80:GLN:OE1	3:AL:202:ASN:OD1	2.19	0.60
3:ZE:167:PRO:HG2	4:ZP:338:GLN:HE22	1.65	0.60
4:ZO:248:THR:OG1	4:ZO:257:ALA:N	2.34	0.60
3:AF:143:PRO:HG2	3:AF:161:GLN:HE22	1.65	0.60
3:AG:140:ILE:HG23	3:AG:170:VAL:HG12	1.82	0.60
3:AH:22:ILE:HG21	3:AH:233:MET:HG2	1.84	0.60
6:AT:277:GLN:HB3	6:AT:377:MET:HE1	1.83	0.60
6:AZ:277:GLN:HB3	6:AZ:377:MET:HE1	1.83	0.60
6:Ap:277:GLN:HB3	6:Ap:377:MET:HE1	1.83	0.60
9:Au:123:MET:HE3	9:Au:124:GLN:HG2	1.81	0.60
6:UJ:161:LYS:O	6:UJ:162:PRO:C	2.43	0.60
6:WA:175:SER:CB	6:WW:197:LEU:HA	2.31	0.60
6:WS:117:ASP:O	6:WS:118:GLN:C	2.44	0.60
1:L:51:ILE:HG13	2:i:175:LEU:HD11	1.82	0.60
1:T:59:ASN:HD21	2:r:130:ASP:HB2	1.66	0.60
2:c:193:ASP:OD2	2:d:23:ARG:NH2	2.32	0.60
2:m:273:CYS:CB	2:n:264:MET:O	2.40	0.60
2:t:195:THR:HG21	2:u:241:ASN:HD21	1.66	0.60
2:u:195:THR:HG21	2:v:241:ASN:HD21	1.66	0.60
3:4:242:ILE:HD13	3:ZA:258:THR:HG23	1.83	0.60
4:ZW:17:LEU:CD1	4:Zb:395:ILE:HD11	2.31	0.60
4:ZY:194:HIS:HB3	4:ZY:196:MET:HE3	1.82	0.60
7:Ab:89:GLY:C	6:WS:165:PHE:CE1	2.79	0.60
6:Ao:277:GLN:HB3	6:Ao:377:MET:HE1	1.83	0.60
9:Av:152:ARG:NH1	6:WV:164:LEU:HB3	2.17	0.60
9:Ax:83:ALA:HB3	9:Ax:84:PRO:HD3	1.84	0.60
6:UO:73:MET:HE3	6:UO:99:ARG:HD3	1.81	0.60
6:UP:103:GLN:HG2	6:WW:182:PRO:HB3	0.71	0.60
6:BV:277:GLN:HB3	6:BV:377:MET:HE1	1.82	0.60
2:b:195:THR:HG21	2:c:241:ASN:HD21	1.66	0.60
2:i:80:GLN:OE1	3:AJ:209:ASN:HA	2.02	0.60
3:3:22:ILE:HG21	3:3:233:MET:HG3	1.83	0.60
5:AB:153:ASN:HD21	3:AM:194:GLU:CD	2.09	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:62:PRO:HA	3:AJ:63:PRO:HG2	1.83	0.60
3:AN:52:PRO:HG3	12:BD:80:PRO:HB3	1.83	0.60
6:AW:299:ASN:HD21	11:A9:55:ARG:NH2	1.91	0.60
6:AZ:236:LYS:HE2	6:UP:167:ARG:NH1	2.15	0.60
6:UK:127:SER:O	6:UK:131:ASN:CB	2.50	0.60
6:WF:190:GLN:HA	6:WG:217:GLY:O	2.01	0.60
1:P:59:ASN:HD21	2:n:130:ASP:HB2	1.66	0.60
2:k:53:THR:HG21	3:AJ:125:ASN:CG	2.27	0.60
3:ZC:24:ASN:HB2	4:ZH:5:GLN:HE21	1.67	0.60
3:ZD:208:LEU:O	3:ZD:210:GLY:N	2.35	0.60
4:ZJ:65:THR:HG22	4:ZU:50:LEU:HD12	1.82	0.60
4:ZL:144:MET:SD	4:ZL:310:GLN:NE2	2.75	0.60
3:AI:50:ARG:HG2	3:AI:65:GLY:HA2	1.84	0.60
6:AV:402:LEU:HD12	6:AV:403:PRO:HD2	1.84	0.60
6:Ao:402:LEU:HD12	6:Ao:403:PRO:HD2	1.84	0.60
6:UM:103:GLN:NE2	6:WQ:182:PRO:HB3	2.17	0.60
6:WK:197:LEU:HA	6:WL:175:SER:CB	2.32	0.60
1:B:59:ASN:HD21	2:z:130:ASP:HB2	1.66	0.60
1:S:59:ASN:HD21	2:q:130:ASP:HB2	1.66	0.60
2:c:195:THR:HG21	2:d:241:ASN:HD21	1.66	0.60
2:g:78:ASN:CB	3:AK:125:ASN:OD1	2.49	0.60
2:o:51:GLN:NE2	3:AI:139:ALA:HB3	2.17	0.60
4:ZU:331:ASP:HA	4:ZZ:40:ALA:HB1	1.82	0.60
4:ZV:196:MET:HA	4:ZV:196:MET:HE3	1.83	0.60
4:ZX:80:ASN:OD1	4:ZX:81:GLY:N	2.34	0.60
4:ZZ:394:GLN:O	4:ZZ:398:THR:HG23	2.01	0.60
5:AC:104:ASN:ND2	3:AH:38:ARG:NH2	2.50	0.60
7:Aq:14:MET:HG3	7:Ar:59:PHE:CE1	2.36	0.60
7:As:74:LEU:HD11	9:Ay:228:LEU:HD13	1.83	0.60
6:WR:186:LEU:HA	6:WR:190:GLN:OE1	2.00	0.60
6:BX:277:GLN:HB3	6:BX:377:MET:HE1	1.83	0.60
1:W:59:ASN:HD21	2:u:130:ASP:HB2	1.66	0.60
1:Y:51:ILE:HG13	2:v:175:LEU:HD11	1.82	0.60
2:p:319:LEU:HD21	2:q:264:MET:CE	2.25	0.60
2:s:195:THR:HG21	2:t:241:ASN:HD21	1.66	0.60
3:4:40:VAL:O	3:4:75:VAL:N	2.30	0.60
3:8:215:TYR:OH	3:ZE:189:GLU:OE2	2.19	0.60
3:9:64:SER:O	3:9:64:SER:OG	2.20	0.60
4:ZH:11:ASN:O	4:ZH:15:THR:HG23	2.00	0.60
4:ZU:150:THR:H	4:ZU:282:ASN:HD21	1.48	0.60
4:ZZ:184:VAL:HG13	4:ZZ:196:MET:HB2	1.83	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AS:402:LEU:HD12	6:AS:403:PRO:HD2	1.84	0.60
6:AU:402:LEU:HD12	6:AU:403:PRO:HD2	1.84	0.60
6:AW:402:LEU:HD12	6:AW:403:PRO:HD2	1.84	0.60
6:AY:277:GLN:HB3	6:AY:377:MET:HE1	1.83	0.60
6:AY:402:LEU:HD12	6:AY:403:PRO:HD2	1.84	0.60
6:UN:161:LYS:O	6:UN:162:PRO:C	2.43	0.60
6:WH:193:ALA:CB	6:WI:213:VAL:HG11	2.26	0.60
6:WK:197:LEU:HD11	6:WL:156:HIS:CD2	2.35	0.60
1:A:59:ASN:HD21	2:y:130:ASP:HB2	1.66	0.60
1:C:59:ASN:HD21	2:a:130:ASP:HB2	1.66	0.60
1:U:59:ASN:HD21	2:s:130:ASP:HB2	1.66	0.60
3:3:248:SER:O	3:3:252:GLN:HG2	2.02	0.60
3:6:180:ASN:OD1	3:6:183:GLY:N	2.35	0.60
4:Zc:71:ARG:NH1	4:Zc:74:ASP:OD1	2.35	0.60
5:AD:221:ILE:HG23	3:AJ:251:ASP:CG	2.23	0.60
6:AZ:402:LEU:HD12	6:AZ:403:PRO:HD2	1.84	0.60
6:An:402:LEU:HD12	6:An:403:PRO:HD2	1.84	0.60
9:Ay:83:ALA:CB	9:Ay:84:PRO:HD3	2.30	0.60
6:UI:127:SER:O	6:UI:131:ASN:CB	2.50	0.60
6:UK:126:PHE:CE1	6:UK:130:VAL:CG2	2.84	0.60
12:BD:109:SER:O	12:BD:113:GLN:HG3	2.02	0.60
6:BS:277:GLN:HB3	6:BS:377:MET:HE1	1.83	0.60
2:d:195:THR:HG21	2:e:241:ASN:HD21	1.66	0.60
2:m:54:GLN:HE22	3:AI:208:LEU:HG	1.66	0.60
2:r:195:THR:HG21	2:s:241:ASN:HD21	1.66	0.60
2:x:193:ASP:OD2	2:y:23:ARG:NH2	2.31	0.60
3:6:57:SER:CA	5:AE:140:ASP:OD2	2.32	0.60
3:ZB:240:TYR:CZ	4:ZG:399:LEU:HD11	2.37	0.60
3:ZC:122:VAL:O	4:ZH:322:ASN:CB	2.50	0.60
3:ZE:85:ASN:CG	4:ZP:50:LEU:CD2	2.75	0.60
4:ZF:346:GLY:HA3	4:ZF:353:PHE:CE2	2.37	0.60
4:ZO:71:ARG:HB2	4:ZO:74:ASP:OD1	2.02	0.60
5:AB:202:MET:HE1	3:AM:73:ARG:HD3	1.84	0.60
5:AB:217:MET:HE2	3:AG:245:LYS:HG2	1.83	0.60
3:AM:86:LEU:HD12	3:AM:218:TYR:HB3	1.84	0.60
6:Ap:402:LEU:HD12	6:Ap:403:PRO:HD2	1.84	0.60
6:AO:277:GLN:HB3	6:AO:377:MET:HE1	1.83	0.60
6:AP:277:GLN:HB3	6:AP:377:MET:HE1	1.83	0.60
9:Ay:162:PRO:CG	6:WH:167:ARG:HH22	2.14	0.60
9:Ay:184:GLN:O	9:Ay:188:THR:HG23	2.02	0.60
6:UI:126:PHE:CE1	6:UI:130:VAL:CG2	2.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UO:126:PHE:CE1	6:UO:130:VAL:CG2	2.84	0.60
6:UP:127:SER:O	6:UP:131:ASN:CB	2.50	0.60
6:WG:212:LEU:HB3	6:WG:221:THR:HG23	1.82	0.60
6:WI:200:SER:O	6:WJ:158:ALA:HB2	2.02	0.60
6:WJ:212:LEU:HB3	6:WJ:221:THR:HG23	1.84	0.60
1:E:59:ASN:HD21	2:c:130:ASP:HB2	1.66	0.59
2:g:273:CYS:CB	2:h:264:MET:O	2.40	0.59
3:3:34:PHE:HB3	3:3:222:SER:HB3	1.83	0.59
4:ZO:146:ALA:HB2	4:ZO:286:PRO:HD3	1.83	0.59
4:Ze:233:ASN:HD21	4:Ze:237:ILE:HB	1.67	0.59
4:Zg:114:MET:HA	4:Zg:114:MET:HE3	1.82	0.59
3:AH:90:ASN:O	3:AH:91:ASN:C	2.45	0.59
6:AT:402:LEU:HD12	6:AT:403:PRO:HD2	1.84	0.59
6:AX:277:GLN:HB3	6:AX:377:MET:HE1	1.83	0.59
6:Ai:402:LEU:HD12	6:Ai:403:PRO:HD2	1.84	0.59
6:UI:73:MET:HE3	6:UI:99:ARG:HD3	1.81	0.59
6:UN:208:GLY:N	6:WR:187:ASP:OD1	2.35	0.59
6:WD:168:GLU:CG	6:WD:170:LYS:HE2	2.31	0.59
6:BX:402:LEU:HD12	6:BX:403:PRO:HD2	1.84	0.59
1:G:59:ASN:HD21	2:e:130:ASP:HB2	1.66	0.59
2:e:195:THR:HG21	2:f:241:ASN:HD21	1.66	0.59
3:5:35:LYS:NZ	3:5:220:GLU:OE2	2.35	0.59
3:ZB:40:VAL:HG23	3:ZB:75:VAL:HB	1.84	0.59
3:ZC:54:ALA:HB1	3:AK:150:THR:HG21	1.83	0.59
4:ZJ:17:LEU:HD13	4:ZO:395:ILE:HD11	1.84	0.59
4:ZS:289:LEU:HA	4:ZS:304:TYR:HA	1.84	0.59
4:ZX:114:MET:HE1	4:ZX:333:VAL:HG21	1.82	0.59
6:Ad:372:ILE:HG22	10:A2:11:ILE:CG2	2.31	0.59
6:Aj:402:LEU:HD12	6:Aj:403:PRO:HD2	1.84	0.59
7:Ar:52:ILE:O	7:Ar:56:VAL:HG22	2.02	0.59
9:Ax:232:TRP:O	9:Ax:236:MET:HG2	2.02	0.59
11:A6:94:SER:O	6:BI:324:ASN:ND2	2.35	0.59
11:A0:32:ASN:ND2	12:BE:60:GLY:O	2.35	0.59
6:UM:127:SER:O	6:UM:131:ASN:CB	2.50	0.59
6:UO:127:SER:O	6:UO:131:ASN:CB	2.50	0.59
6:WB:197:LEU:CD1	6:WC:175:SER:OG	2.48	0.59
6:WM:143:THR:OG1	6:WN:154:ARG:CG	2.41	0.59
6:WV:190:GLN:NE2	6:WW:216:SER:O	2.34	0.59
1:R:59:ASN:HD21	2:p:130:ASP:HB2	1.66	0.59
2:q:195:THR:HG21	2:r:241:ASN:HD21	1.66	0.59
3:7:167:PRO:CG	4:ZI:338:GLN:OE1	2.50	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:9:137:GLN:HE21	3:9:138:PRO:HA	1.67	0.59
3:ZB:31:THR:HG22	4:ZG:39:PHE:HB2	1.83	0.59
4:ZQ:188:ASP:HA	4:ZQ:257:ALA:HB2	1.82	0.59
4:Za:24:ILE:O	4:Za:27:SER:OG	2.20	0.59
5:AB:51:LEU:HD22	12:BC:67:VAL:HG23	1.83	0.59
3:AF:93:LYS:HE3	3:AF:149:ILE:HG21	1.84	0.59
6:AS:294:ARG:HD3	11:A0:68:THR:CG2	2.30	0.59
6:AX:402:LEU:HD12	6:AX:403:PRO:HD2	1.84	0.59
6:AY:295:SER:CB	11:A9:65:LEU:HB2	2.32	0.59
6:Ah:402:LEU:HD12	6:Ah:403:PRO:HD2	1.84	0.59
6:UL:127:SER:O	6:UL:131:ASN:CB	2.50	0.59
6:UN:127:SER:O	6:UN:131:ASN:CB	2.50	0.59
6:WW:117:ASP:O	6:WW:118:GLN:C	2.44	0.59
1:I:59:ASN:HD21	2:g:130:ASP:HB2	1.66	0.59
1:K:59:ASN:HD21	2:i:130:ASP:HB2	1.66	0.59
2:f:195:THR:HG21	2:g:241:ASN:HD21	1.66	0.59
2:x:54:GLN:HB3	2:y:80:GLN:HB2	1.85	0.59
4:ZZ:309:GLU:N	4:ZZ:309:GLU:OE2	2.34	0.59
5:AC:104:ASN:HD21	3:AH:38:ARG:HH21	1.49	0.59
3:AL:22:ILE:HG21	3:AL:233:MET:HG3	1.84	0.59
6:AU:277:GLN:HB3	6:AU:377:MET:HE1	1.83	0.59
6:UJ:127:SER:O	6:UJ:131:ASN:CB	2.50	0.59
12:BA:20:ARG:HD3	12:BA:108:ALA:HB2	1.84	0.59
6:WS:193:ALA:HB1	6:WT:213:VAL:HG11	1.84	0.59
2:a:54:GLN:HB3	2:b:80:GLN:HB2	1.85	0.59
2:g:78:ASN:ND2	3:AK:125:ASN:ND2	2.50	0.59
2:q:319:LEU:HD21	2:r:264:MET:CE	2.25	0.59
3:ZE:240:TYR:CE2	4:ZJ:399:LEU:CD1	2.83	0.59
4:ZK:165:PRO:HG2	4:ZK:201:VAL:HG13	1.84	0.59
4:ZQ:6:ALA:HB1	4:ZQ:389:ILE:HG12	1.85	0.59
4:ZT:42:MET:HE3	4:ZT:53:LYS:HB3	1.84	0.59
3:AN:115:THR:HB	3:AN:191:LEU:HD23	1.85	0.59
6:AR:402:LEU:HD12	6:AR:403:PRO:HD2	1.84	0.59
6:AW:277:GLN:HB3	6:AW:377:MET:HE1	1.83	0.59
6:Aa:402:LEU:HD12	6:Aa:403:PRO:HD2	1.84	0.59
6:Al:294:ARG:CD	11:A7:68:THR:CG2	2.80	0.59
7:Aq:51:PHE:CZ	7:Aq:55:ILE:HD11	2.38	0.59
8:At:145:TRP:CG	6:WJ:164:LEU:HD13	2.33	0.59
6:UJ:73:MET:HE3	6:UJ:99:ARG:HD3	1.81	0.59
6:WD:197:LEU:HD12	6:WE:175:SER:HB3	1.85	0.59
6:WJ:128:GLU:OE2	6:WK:127:SER:OG	2.20	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WP:128:GLU:HG2	6:WQ:126:PHE:CD2	2.37	0.59
6:WP:212:LEU:HB3	6:WP:221:THR:HG23	1.85	0.59
6:BV:402:LEU:HD12	6:BV:403:PRO:HD2	1.84	0.59
6:BW:402:LEU:HD12	6:BW:403:PRO:HD2	1.84	0.59
1:O:59:ASN:HD21	2:m:130:ASP:HB2	1.66	0.59
1:Z:59:ASN:HD21	2:x:130:ASP:HB2	1.66	0.59
2:a:80:GLN:HB2	2:z:54:GLN:HB3	1.85	0.59
2:b:54:GLN:HB3	2:c:80:GLN:HB2	1.85	0.59
2:p:195:THR:HG21	2:q:241:ASN:HD21	1.66	0.59
2:w:54:GLN:HB3	2:x:80:GLN:HB2	1.85	0.59
4:ZM:156:ILE:HB	4:ZM:276:ILE:HG23	1.84	0.59
4:Zh:217:ASP:HB3	4:Zh:220:ALA:HB2	1.85	0.59
5:AB:91:GLN:HB2	5:AB:121:ILE:HD11	1.83	0.59
5:AC:170:GLU:OE1	5:AC:189:ARG:NH1	2.35	0.59
5:AD:174:SER:OG	5:AD:176:ASP:OD2	2.16	0.59
3:AL:3:SER:O	3:AL:6:TRP:N	2.35	0.59
6:Ak:402:LEU:HD12	6:Ak:403:PRO:HD2	1.84	0.59
11:A8:115:LYS:HE3	12:BD:4:LEU:HD11	1.84	0.59
6:WI:186:LEU:HA	6:WI:190:GLN:OE1	2.02	0.59
6:WK:196:HIS:HB3	6:WL:211:THR:CG2	2.22	0.59
6:BW:277:GLN:HB3	6:BW:377:MET:HE1	1.83	0.59
1:X:59:ASN:HD21	2:v:130:ASP:HB2	1.66	0.59
2:a:273:CYS:CB	2:b:264:MET:O	2.40	0.59
2:g:195:THR:HG21	2:h:241:ASN:HD21	1.66	0.59
2:s:54:GLN:HB3	2:t:80:GLN:HB2	1.85	0.59
2:v:54:GLN:HB3	2:w:80:GLN:HB2	1.85	0.59
2:v:273:CYS:CB	2:w:264:MET:O	2.40	0.59
2:y:54:GLN:HB3	2:z:80:GLN:HB2	1.85	0.59
3:5:208:LEU:O	3:5:210:GLY:N	2.34	0.59
3:ZD:238:ARG:CZ	4:ZJ:393:ASP:OD1	2.50	0.59
4:ZM:18:ASP:O	4:ZR:5:GLN:NE2	2.36	0.59
4:ZW:208:TRP:NE1	4:ZW:268:GLN:OE1	2.35	0.59
4:Zc:101:LYS:HE2	4:Zh:322:ASN:HD21	1.67	0.59
5:AD:104:ASN:ND2	3:AI:38:ARG:NH2	2.50	0.59
3:AH:241:GLU:HG3	3:AM:256:LYS:HE3	1.84	0.59
7:Ab:84:LEU:HD13	9:Av:188:THR:HG21	1.84	0.59
6:Am:402:LEU:HD12	6:Am:403:PRO:HD2	1.84	0.59
6:AQ:277:GLN:HB3	6:AQ:377:MET:HE1	1.83	0.59
9:Au:66:ARG:NH2	9:Au:243:PHE:O	2.36	0.59
11:A6:46:ALA:O	11:A6:50:LYS:HG3	2.02	0.59
6:WC:212:LEU:HB3	6:WC:221:THR:HG23	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WP:193:ALA:HB1	6:WQ:213:VAL:CG1	2.32	0.59
1:N:224:ARG:O	1:N:228:ASN:ND2	2.36	0.59
2:e:54:GLN:HB3	2:f:80:GLN:HB2	1.85	0.59
2:f:54:GLN:HB3	2:g:80:GLN:HB2	1.85	0.59
2:o:195:THR:HG21	2:p:241:ASN:HD21	1.66	0.59
2:r:54:GLN:HB3	2:s:80:GLN:HB2	1.85	0.59
4:ZT:180:LYS:HD3	4:ZT:274:ASN:HB3	1.85	0.59
4:ZT:314:GLN:NE2	4:ZT:347:THR:OG1	2.35	0.59
5:AA:122:GLY:O	5:AA:124:GLY:N	2.35	0.59
5:AB:224:ALA:HA	3:AG:253:MET:HE3	1.81	0.59
6:AO:402:LEU:HD12	6:AO:403:PRO:HD2	1.84	0.59
6:WS:190:GLN:NE2	6:WT:216:SER:O	2.36	0.59
6:BR:402:LEU:HD12	6:BR:403:PRO:HD2	1.84	0.59
1:R:224:ARG:O	1:R:228:ASN:ND2	2.36	0.59
2:c:54:GLN:HB3	2:d:80:GLN:HB2	1.85	0.59
2:t:54:GLN:HB3	2:u:80:GLN:HB2	1.85	0.59
4:ZH:160:SER:O	4:ZN:252:ASN:ND2	2.35	0.59
5:AE:215:GLU:HG2	3:AK:9:LYS:HE3	1.85	0.59
6:AY:377:MET:N	6:AY:377:MET:SD	2.76	0.59
6:Ac:402:LEU:HD12	6:Ac:403:PRO:HD2	1.84	0.59
6:Al:252:ILE:HD11	6:Al:419:ALA:HB2	1.85	0.59
6:UL:126:PHE:CE1	6:UL:130:VAL:CG2	2.84	0.59
6:WI:212:LEU:HB3	6:WI:221:THR:HG23	1.84	0.59
6:WK:186:LEU:HD22	6:WK:190:GLN:CD	2.28	0.59
6:WK:197:LEU:CD1	6:WL:175:SER:OG	2.51	0.59
2:c:93:TYR:OH	2:c:173:ARG:O	2.19	0.59
2:g:54:GLN:HB3	2:h:80:GLN:HB2	1.85	0.59
2:n:195:THR:HG21	2:o:241:ASN:HD21	1.66	0.59
2:u:54:GLN:HB3	2:v:80:GLN:HB2	1.85	0.59
2:w:93:TYR:OH	2:w:173:ARG:O	2.19	0.59
3:0:180:ASN:ND2	3:AJ:122:VAL:O	2.35	0.59
3:5:115:THR:HB	3:5:191:LEU:HD23	1.85	0.59
3:ZA:49:ILE:HG21	3:ZA:66:LEU:HD23	1.85	0.59
4:ZO:211:TYR:CE2	4:ZO:226:ALA:HA	2.38	0.59
4:Zc:150:THR:OG1	4:Zc:282:ASN:ND2	2.35	0.59
5:AA:215:GLU:HG3	3:AG:9:LYS:NZ	2.18	0.59
3:AH:75:VAL:HA	3:AM:51:GLN:HE22	1.68	0.59
6:Aa:377:MET:SD	6:Aa:377:MET:N	2.76	0.59
6:Aj:252:ILE:HD11	6:Aj:419:ALA:HB2	1.85	0.59
6:Aj:278:THR:HG21	10:A1:7:ILE:CG2	2.33	0.59
6:Ak:252:ILE:HD11	6:Ak:419:ALA:HB2	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A5:11:ILE:HG22	6:BR:372:ILE:HG21	1.85	0.59
6:WA:212:LEU:HB3	6:WA:221:THR:HG23	1.84	0.59
6:BS:377:MET:N	6:BS:377:MET:SD	2.76	0.59
6:BU:402:LEU:HD12	6:BU:403:PRO:HD2	1.84	0.59
1:M:59:ASN:HD21	2:k:130:ASP:HB2	1.66	0.58
2:a:208:ARG:O	2:a:212:SER:OG	2.21	0.58
2:d:54:GLN:HB3	2:e:80:GLN:HB2	1.85	0.58
3:0:9:LYS:HE2	5:AD:72:ASP:OD2	2.03	0.58
3:8:45:LEU:HD21	3:AL:98:LYS:HG3	1.85	0.58
3:ZD:46:TYR:HA	3:ZD:69:GLY:HA2	1.84	0.58
3:ZE:238:ARG:CZ	4:ZK:393:ASP:OD1	2.51	0.58
5:AA:96:ALA:HB3	5:AA:180:ARG:HH21	1.68	0.58
5:AB:84:GLN:OE1	3:AM:48:THR:HG22	2.03	0.58
6:AV:277:GLN:HB3	6:AV:377:MET:HE1	1.83	0.58
6:AW:377:MET:N	6:AW:377:MET:SD	2.76	0.58
6:Ae:252:ILE:HD11	6:Ae:419:ALA:HB2	1.85	0.58
6:Af:377:MET:N	6:Af:377:MET:SD	2.76	0.58
6:Ag:402:LEU:HD12	6:Ag:403:PRO:HD2	1.84	0.58
6:Ah:377:MET:N	6:Ah:377:MET:SD	2.76	0.58
6:WK:203:ALA:HB1	6:WL:160:PRO:HA	1.84	0.58
6:WT:116:LEU:HD13	6:WT:135:ALA:HB2	1.85	0.58
6:BS:402:LEU:HD12	6:BS:403:PRO:HD2	1.84	0.58
6:BU:377:MET:N	6:BU:377:MET:SD	2.76	0.58
1:O:224:ARG:O	1:O:228:ASN:ND2	2.35	0.58
2:h:195:THR:HG21	2:i:241:ASN:HD21	1.66	0.58
2:q:54:GLN:HB3	2:r:80:GLN:HB2	1.85	0.58
2:r:319:LEU:HD21	2:s:264:MET:CE	2.25	0.58
3:2:40:VAL:O	3:2:75:VAL:N	2.33	0.58
4:ZJ:217:ASP:HB3	4:ZJ:220:ALA:HB2	1.84	0.58
4:ZZ:71:ARG:HG2	4:ZZ:73:LEU:H	1.68	0.58
4:Zb:57:ILE:HD12	4:Zg:47:LYS:HB2	1.85	0.58
6:AS:252:ILE:HD11	6:AS:419:ALA:HB2	1.85	0.58
6:AV:305:GLY:HA3	6:AV:355:PRO:HG2	1.85	0.58
6:Ag:305:GLY:HA3	6:Ag:355:PRO:HG2	1.86	0.58
6:Aj:377:MET:N	6:Aj:377:MET:SD	2.76	0.58
6:AP:377:MET:SD	6:AP:377:MET:N	2.76	0.58
6:AQ:377:MET:N	6:AQ:377:MET:SD	2.76	0.58
8:At:145:TRP:NE1	6:WJ:164:LEU:CB	2.54	0.58
6:WT:212:LEU:HB3	6:WT:221:THR:HG23	1.84	0.58
1:K:224:ARG:O	1:K:228:ASN:ND2	2.36	0.58
2:j:54:GLN:HB3	2:k:80:GLN:HB2	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:54:GLN:HB3	2:o:80:GLN:HB2	1.85	0.58
2:z:208:ARG:O	2:z:212:SER:OG	2.21	0.58
3:1:49:ILE:HB	3:1:66:LEU:HD23	1.85	0.58
3:2:1:MET:HB2	3:AK:235:GLN:HE21	1.68	0.58
3:7:137:GLN:HA	3:7:139:ALA:H	1.68	0.58
4:ZS:33:LYS:O	4:ZS:59:GLN:NE2	2.36	0.58
4:Zc:281:GLN:NE2	4:Zc:283:GLY:O	2.36	0.58
4:Zd:144:MET:HE3	4:Zd:145:ALA:N	2.19	0.58
4:Zf:159:ASN:ND2	4:Zf:161:THR:OG1	2.34	0.58
5:AA:122:GLY:O	5:AA:123:GLU:C	2.47	0.58
6:Aa:305:GLY:HA3	6:Aa:355:PRO:HG2	1.86	0.58
6:Ad:377:MET:N	6:Ad:377:MET:SD	2.76	0.58
6:Af:252:ILE:HD11	6:Af:419:ALA:HB2	1.85	0.58
6:Af:305:GLY:HA3	6:Af:355:PRO:HG2	1.86	0.58
6:Ak:370:ARG:NE	10:A1:7:ILE:HD11	2.17	0.58
6:Ap:377:MET:N	6:Ap:377:MET:SD	2.76	0.58
6:AQ:402:LEU:HD12	6:AQ:403:PRO:HD2	1.84	0.58
6:WE:128:GLU:HB3	6:WF:126:PHE:CD2	2.38	0.58
6:WS:196:HIS:HB3	6:WT:211:THR:HG21	1.85	0.58
6:BX:252:ILE:HD11	6:BX:419:ALA:HB2	1.85	0.58
1:V:224:ARG:O	1:V:228:ASN:ND2	2.36	0.58
1:Y:224:ARG:O	1:Y:228:ASN:ND2	2.36	0.58
2:i:54:GLN:HB3	2:j:80:GLN:HB2	1.85	0.58
2:i:80:GLN:HE22	3:AJ:209:ASN:HB2	1.68	0.58
2:k:54:GLN:HB3	2:l:80:GLN:HB2	1.85	0.58
2:m:195:THR:HG21	2:n:241:ASN:HD21	1.66	0.58
2:o:54:GLN:HB3	2:p:80:GLN:HB2	1.85	0.58
2:p:54:GLN:HB3	2:q:80:GLN:HB2	1.85	0.58
3:9:127:GLN:NE2	3:9:135:GLN:OE1	2.37	0.58
4:ZL:22:ASN:ND2	4:ZQ:49:GLY:HA3	2.18	0.58
4:ZQ:22:ASN:OD1	4:ZQ:26:ASN:ND2	2.35	0.58
4:ZT:248:THR:OG1	4:ZT:257:ALA:N	2.37	0.58
4:ZX:146:ALA:HB2	4:ZX:286:PRO:HD3	1.85	0.58
6:AU:252:ILE:HD11	6:AU:419:ALA:HB2	1.85	0.58
6:AW:305:GLY:HA3	6:AW:355:PRO:HG2	1.86	0.58
6:AY:295:SER:HB2	11:A9:65:LEU:HB2	1.84	0.58
6:Ac:377:MET:N	6:Ac:377:MET:SD	2.76	0.58
6:Aj:372:ILE:HB	10:A1:11:ILE:CG2	2.33	0.58
6:AO:252:ILE:HD11	6:AO:419:ALA:HB2	1.85	0.58
11:A8:67:LEU:HA	11:A8:72:HIS:NE2	2.18	0.58
6:WK:212:LEU:HB3	6:WK:221:THR:HG23	1.84	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BR:277:GLN:HB3	6:BR:377:MET:HE1	1.83	0.58
1:A:224:ARG:O	1:A:228:ASN:ND2	2.36	0.58
2:h:54:GLN:HB3	2:i:80:GLN:HB2	1.85	0.58
2:l:195:THR:HG21	2:m:241:ASN:HD21	1.66	0.58
2:l:273:CYS:CB	2:m:264:MET:O	2.40	0.58
2:m:54:GLN:HB3	2:n:80:GLN:HB2	1.85	0.58
2:q:273:CYS:CB	2:r:264:MET:O	2.41	0.58
3:8:230:LEU:HD21	3:ZD:242:ILE:HG23	1.86	0.58
3:ZD:189:GLU:OE1	4:ZI:53:LYS:CE	2.51	0.58
4:ZK:75:VAL:HG21	4:ZK:356:LEU:HD23	1.85	0.58
4:ZZ:69:THR:OG1	4:ZZ:74:ASP:OD2	2.21	0.58
4:Zd:208:TRP:NE1	4:Zd:268:GLN:OE1	2.37	0.58
5:AE:226:ARG:O	5:AE:230:GLN:HG2	2.03	0.58
6:AU:377:MET:N	6:AU:377:MET:SD	2.76	0.58
6:AV:252:ILE:HD11	6:AV:419:ALA:HB2	1.85	0.58
6:Ad:402:LEU:HD12	6:Ad:403:PRO:HD2	1.84	0.58
6:Ae:377:MET:N	6:Ae:377:MET:SD	2.76	0.58
6:Al:294:ARG:HG2	11:A7:66:THR:OG1	2.03	0.58
6:Al:402:LEU:HD12	6:Al:403:PRO:HD2	1.84	0.58
6:AO:377:MET:N	6:AO:377:MET:SD	2.76	0.58
11:A6:127:LEU:O	11:A6:131:MET:HG2	2.03	0.58
6:WA:175:SER:OG	6:WW:197:LEU:CD1	2.51	0.58
12:BD:20:ARG:HD2	6:BN:313:PRO:HG2	1.85	0.58
6:BV:252:ILE:HD11	6:BV:419:ALA:HB2	1.85	0.58
1:B:224:ARG:O	1:B:228:ASN:ND2	2.36	0.58
1:J:224:ARG:O	1:J:228:ASN:ND2	2.36	0.58
2:k:195:THR:HG21	2:l:241:ASN:HD21	1.66	0.58
2:l:93:TYR:OH	2:l:173:ARG:O	2.19	0.58
3:4:64:SER:O	3:4:64:SER:OG	2.19	0.58
3:6:35:LYS:HB2	3:6:79:ARG:HD2	1.85	0.58
4:ZI:99:GLN:HG3	4:ZI:361:LEU:HD21	1.84	0.58
4:ZS:105:ASN:HB2	4:ZS:107:ASN:HD21	1.68	0.58
4:ZS:228:THR:HB	4:ZS:244:VAL:HG11	1.86	0.58
4:Zf:101:LYS:HD3	4:Zf:102:LEU:H	1.67	0.58
5:AE:16:LEU:CD2	3:AJ:253:MET:CE	2.79	0.58
3:AM:66:LEU:HD23	3:AM:66:LEU:H	1.69	0.58
6:AR:305:GLY:HA3	6:AR:355:PRO:HG2	1.86	0.58
6:AX:252:ILE:HD11	6:AX:419:ALA:HB2	1.85	0.58
6:Ad:252:ILE:HD11	6:Ad:419:ALA:HB2	1.85	0.58
6:Ad:278:THR:HG21	10:A2:7:ILE:CB	2.11	0.58
6:Ag:252:ILE:HD11	6:Ag:419:ALA:HB2	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Am:252:ILE:HD11	6:Am:419:ALA:HB2	1.85	0.58
6:An:377:MET:N	6:An:377:MET:SD	2.76	0.58
6:AP:402:LEU:HD12	6:AP:403:PRO:HD2	1.84	0.58
6:BT:402:LEU:HD12	6:BT:403:PRO:HD2	1.84	0.58
6:BU:252:ILE:HD11	6:BU:419:ALA:HB2	1.85	0.58
1:H:224:ARG:O	1:H:228:ASN:ND2	2.36	0.58
2:i:195:THR:HG21	2:j:241:ASN:HD21	1.66	0.58
3:8:47:GLN:N	3:8:68:ILE:O	2.37	0.58
4:ZO:140:PRO:HD2	4:ZO:312:LEU:CD2	2.34	0.58
4:ZS:17:LEU:HD13	4:ZX:395:ILE:HD11	1.85	0.58
4:ZU:154:MET:HE1	4:ZU:198:VAL:HG21	1.86	0.58
4:ZU:373:VAL:O	4:ZU:376:ILE:N	2.36	0.58
4:Zb:107:ASN:ND2	4:Zb:138:THR:OG1	2.37	0.58
4:Zb:380:ARG:NH2	4:Zh:393:ASP:OD1	2.36	0.58
5:AA:150:ASP:O	5:AA:151:PRO:C	2.47	0.58
3:AF:76:ALA:HA	3:AK:66:LEU:HB3	1.84	0.58
6:Aj:372:ILE:CB	10:A1:11:ILE:HG22	2.32	0.58
6:An:276:GLU:OE2	10:Az:11:ILE:CD1	2.52	0.58
6:Ap:252:ILE:HD11	6:Ap:419:ALA:HB2	1.85	0.58
7:Aq:2:THR:HG21	6:WW:125:GLN:CB	2.34	0.58
9:Au:142:THR:O	6:WO:166:VAL:HG22	2.03	0.58
9:Ay:82:SER:OG	10:A3:104:VAL:O	2.20	0.58
11:A8:42:ASP:OD1	11:A8:88:ARG:NH2	2.36	0.58
6:UP:126:PHE:CE1	6:UP:130:VAL:CG2	2.84	0.58
12:BA:36:GLY:HA2	12:BF:51:VAL:HG12	1.85	0.58
6:WU:212:LEU:HB3	6:WU:221:THR:HG23	1.84	0.58
6:BW:252:ILE:HD11	6:BW:419:ALA:HB2	1.85	0.58
1:D:224:ARG:O	1:D:228:ASN:ND2	2.36	0.58
2:j:195:THR:HG21	2:k:241:ASN:HD21	1.66	0.58
2:l:54:GLN:HB3	2:m:80:GLN:HB2	1.85	0.58
2:y:208:ARG:O	2:y:212:SER:OG	2.21	0.58
3:1:258:THR:HA	5:AE:217:MET:CE	2.34	0.58
3:ZD:207:GLY:O	4:ZJ:89:ASN:ND2	2.36	0.58
4:ZK:27:SER:OG	4:ZP:381:ASN:ND2	2.37	0.58
5:AA:72:ASP:HB3	3:AL:9:LYS:HZ3	1.68	0.58
5:AC:91:GLN:HB3	5:AC:119:PRO:HG2	1.86	0.58
5:AD:221:ILE:HG22	3:AJ:251:ASP:OD1	1.98	0.58
5:AE:37:GLN:HE22	3:AJ:67:GLN:HB3	1.68	0.58
6:AT:252:ILE:HD11	6:AT:419:ALA:HB2	1.85	0.58
6:AV:377:MET:N	6:AV:377:MET:SD	2.76	0.58
6:AZ:305:GLY:HA3	6:AZ:355:PRO:HG2	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ai:252:ILE:HD11	6:Ai:419:ALA:HB2	1.85	0.58
6:Ak:305:GLY:HA3	6:Ak:355:PRO:HG2	1.86	0.58
9:Av:152:ARG:HG3	6:WU:164:LEU:HA	1.83	0.58
6:WE:200:SER:O	6:WF:158:ALA:CB	2.52	0.58
6:BR:377:MET:SD	6:BR:377:MET:N	2.76	0.58
1:E:224:ARG:O	1:E:228:ASN:ND2	2.36	0.58
1:G:224:ARG:O	1:G:228:ASN:ND2	2.36	0.58
1:S:224:ARG:O	1:S:228:ASN:ND2	2.36	0.58
2:s:319:LEU:HD21	2:t:264:MET:CE	2.25	0.58
2:y:93:TYR:OH	2:y:173:ARG:O	2.19	0.58
3:ZD:24:ASN:HD21	4:ZI:49:GLY:HA3	1.69	0.58
3:ZD:238:ARG:HH21	4:ZJ:393:ASP:CG	2.12	0.58
4:ZI:195:ASP:OD2	4:ZI:216:SER:OG	2.22	0.58
4:ZK:150:THR:OG1	4:ZK:282:ASN:ND2	2.36	0.58
4:ZO:367:ASP:O	4:ZO:371:GLU:HG2	2.04	0.58
4:ZV:281:GLN:NE2	4:ZV:283:GLY:O	2.34	0.58
5:AC:71:LEU:HB2	3:AN:70:THR:HG21	1.86	0.58
5:AC:202:MET:HE1	3:AN:44:LEU:HA	1.86	0.58
3:AI:6:TRP:O	3:AI:10:THR:HG23	2.04	0.58
6:AR:377:MET:N	6:AR:377:MET:SD	2.76	0.58
6:AW:252:ILE:HD11	6:AW:419:ALA:HB2	1.85	0.58
6:Ae:402:LEU:HD12	6:Ae:403:PRO:HD2	1.84	0.58
6:Ag:377:MET:N	6:Ag:377:MET:SD	2.76	0.58
6:Ao:252:ILE:HD11	6:Ao:419:ALA:HB2	1.85	0.58
6:AP:252:ILE:HD11	6:AP:419:ALA:HB2	1.85	0.58
8:At:187:ALA:O	8:At:190:VAL:HG12	2.04	0.58
9:Aw:83:ALA:HB3	9:Aw:84:PRO:HD3	1.85	0.58
9:Ax:146:ASP:OD1	9:Ay:233:GLN:NE2	2.37	0.58
9:Ay:162:PRO:HG2	6:WH:167:ARG:NH2	2.18	0.58
6:UJ:167:ARG:CZ	6:WB:188:GLU:OE2	2.52	0.58
6:WA:201:ALA:C	6:WB:158:ALA:HB2	2.28	0.58
6:WE:212:LEU:HB3	6:WE:221:THR:HG23	1.85	0.58
1:N:68:ASP:OD2	2:m:64:ASN:ND2	2.37	0.58
1:T:68:ASP:OD2	2:s:64:ASN:ND2	2.37	0.58
3:2:98:LYS:HB3	3:2:213:LEU:H	1.68	0.58
3:3:58:GLU:OE1	5:AB:142:THR:OG1	2.16	0.58
3:8:1:MET:HE3	3:AL:226:VAL:HG21	1.84	0.58
3:ZD:115:THR:HB	3:ZD:191:LEU:HD23	1.84	0.58
3:ZE:154:ASP:OD2	3:ZE:154:ASP:N	2.37	0.58
4:ZP:178:TYR:HA	4:ZP:201:VAL:HG12	1.86	0.58
4:ZX:50:LEU:H	4:ZX:50:LEU:HD22	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZX:178:TYR:HA	4:ZX:201:VAL:HG22	1.85	0.58
5:AC:131:GLU:HB3	3:AH:179:MET:CE	2.28	0.58
5:AE:173:ARG:HH11	3:AJ:46:TYR:HE1	1.42	0.58
6:AX:305:GLY:HA3	6:AX:355:PRO:HG2	1.86	0.58
6:AX:377:MET:N	6:AX:377:MET:SD	2.76	0.58
7:Ab:35:ILE:HD11	7:Ab:53:PRO:HB2	1.85	0.58
6:Ac:305:GLY:HA3	6:Ac:355:PRO:HG2	1.86	0.58
6:Al:305:GLY:HA3	6:Al:355:PRO:HG2	1.86	0.58
7:Ar:29:LEU:HD22	7:As:52:ILE:HG21	1.84	0.58
12:BA:50:GLN:HG3	12:BA:65:ALA:HB2	1.85	0.58
6:WA:213:VAL:CG1	6:WW:193:ALA:HB1	2.32	0.58
6:WB:186:LEU:HA	6:WB:190:GLN:OE1	2.04	0.58
6:WD:168:GLU:OE1	6:WD:170:LYS:CE	2.51	0.58
6:WV:134:ARG:HB3	6:WV:134:ARG:HH21	1.69	0.58
1:O:68:ASP:OD2	2:n:64:ASN:ND2	2.37	0.57
1:S:68:ASP:OD2	2:r:64:ASN:ND2	2.37	0.57
2:d:93:TYR:OH	2:d:173:ARG:O	2.19	0.57
3:2:232:ASN:O	3:2:236:VAL:HG13	2.04	0.57
3:9:83:GLN:NE2	3:9:97:ILE:O	2.37	0.57
3:ZE:24:ASN:ND2	4:ZJ:49:GLY:HA3	2.19	0.57
4:ZH:319:ASN:HB2	4:ZH:353:PHE:HE1	1.69	0.57
4:ZQ:196:MET:HA	4:ZQ:196:MET:HE3	1.86	0.57
4:ZU:112:GLN:OE1	4:ZU:112:GLN:N	2.36	0.57
5:AB:223:ASN:O	3:AG:253:MET:HE2	2.04	0.57
5:AD:26:LEU:HD21	5:AD:216:ALA:HB1	1.86	0.57
5:AD:215:GLU:HG3	3:AJ:9:LYS:NZ	2.19	0.57
6:AT:377:MET:N	6:AT:377:MET:SD	2.76	0.57
6:AU:305:GLY:HA3	6:AU:355:PRO:HG2	1.86	0.57
6:AY:252:ILE:HD11	6:AY:419:ALA:HB2	1.85	0.57
6:Ah:305:GLY:HA3	6:Ah:355:PRO:HG2	1.86	0.57
6:Al:377:MET:SD	6:Al:377:MET:N	2.76	0.57
6:WG:166:VAL:HG12	6:WG:168:GLU:HB3	1.86	0.57
1:I:68:ASP:OD2	2:h:64:ASN:ND2	2.37	0.57
1:L:224:ARG:O	1:L:228:ASN:ND2	2.36	0.57
1:U:68:ASP:OD2	2:t:64:ASN:ND2	2.37	0.57
3:1:52:PRO:CG	12:BF:80:PRO:HB3	2.34	0.57
3:8:24:ASN:ND2	3:ZD:70:THR:O	2.36	0.57
3:ZA:122:VAL:O	4:ZF:322:ASN:CG	2.46	0.57
4:Zb:80:ASN:OD1	4:Zb:81:GLY:N	2.37	0.57
4:Ze:129:GLN:OE1	4:Ze:132:ALA:N	2.34	0.57
3:AJ:129:VAL:HG12	3:AJ:135:GLN:HA	1.84	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AS:377:MET:SD	6:AS:377:MET:N	2.76	0.57
6:Ae:305:GLY:HA3	6:Ae:355:PRO:HG2	1.86	0.57
8:At:167:ASN:HD21	8:At:174:ARG:HH12	1.52	0.57
6:BT:252:ILE:HD11	6:BT:419:ALA:HB2	1.85	0.57
6:BX:377:MET:N	6:BX:377:MET:SD	2.76	0.57
1:J:68:ASP:OD2	2:i:64:ASN:ND2	2.37	0.57
1:Y:68:ASP:OD2	2:x:64:ASN:ND2	2.37	0.57
2:e:273:CYS:CB	2:f:264:MET:O	2.40	0.57
2:f:273:CYS:CB	2:g:264:MET:O	2.40	0.57
2:p:208:ARG:O	2:p:212:SER:OG	2.21	0.57
2:x:208:ARG:O	2:x:212:SER:OG	2.21	0.57
4:ZG:263:PHE:O	4:ZG:266:SER:OG	2.18	0.57
4:ZI:373:VAL:HG21	4:ZO:10:LEU:HD22	1.86	0.57
4:ZQ:155:GLN:HG3	4:ZQ:278:ALA:HB3	1.86	0.57
4:ZQ:155:GLN:NE2	4:ZQ:277:VAL:HB	2.19	0.57
4:ZZ:104:GLU:OE1	4:Ze:338:GLN:NE2	2.37	0.57
5:AA:72:ASP:HB3	3:AL:9:LYS:HZ2	1.67	0.57
5:AC:226:ARG:O	5:AC:230:GLN:HG2	2.04	0.57
6:AR:276:GLU:OE2	10:A2:19:MET:HA	2.04	0.57
6:AV:355:PRO:HB2	6:BO:319:GLN:NE2	2.18	0.57
7:Ab:8:MET:HE2	6:WS:124:SER:CA	2.34	0.57
6:Af:402:LEU:HD12	6:Af:403:PRO:HD2	1.84	0.57
6:Am:305:GLY:HA3	6:Am:355:PRO:HG2	1.85	0.57
6:AQ:305:GLY:HA3	6:AQ:355:PRO:HG2	1.85	0.57
8:At:176:GLY:HA2	8:At:179:ILE:HD12	1.87	0.57
9:Av:58:LEU:O	9:Av:62:THR:OG1	2.22	0.57
6:WV:212:LEU:HB3	6:WV:221:THR:HG23	1.84	0.57
1:M:68:ASP:OD2	2:l:64:ASN:ND2	2.37	0.57
1:P:68:ASP:OD2	2:o:64:ASN:ND2	2.37	0.57
2:b:93:TYR:OH	2:b:173:ARG:O	2.19	0.57
3:0:151:ILE:HG12	3:0:157:VAL:HG22	1.86	0.57
3:2:85:ASN:O	3:2:221:THR:OG1	2.21	0.57
3:3:52:PRO:HB3	3:3:65:GLY:H	1.70	0.57
3:3:122:VAL:O	3:8:180:ASN:ND2	2.37	0.57
3:ZC:189:GLU:HA	4:ZH:40:ALA:HB1	1.86	0.57
3:ZC:208:LEU:O	3:ZC:210:GLY:N	2.37	0.57
4:ZO:65:THR:HG22	4:ZZ:50:LEU:HD22	1.86	0.57
4:ZX:367:ASP:O	4:ZX:371:GLU:HG2	2.05	0.57
5:AB:165:LYS:HG3	5:AB:199:ILE:HD11	1.85	0.57
5:AC:21:VAL:HG23	3:AH:68:ILE:CG2	2.33	0.57
6:Ai:377:MET:SD	6:Ai:377:MET:N	2.77	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A4:11:ILE:HG22	6:BX:372:ILE:CB	2.34	0.57
10:A5:76:GLN:HG3	12:BA:123:LYS:HD2	1.86	0.57
11:A6:67:LEU:HD11	11:A6:74:PRO:HA	1.85	0.57
11:A0:42:ASP:OD1	11:A0:43:ILE:N	2.38	0.57
6:UK:207:PRO:HG2	6:WE:187:ASP:CG	2.29	0.57
6:UN:208:GLY:HA3	6:WR:187:ASP:OD1	2.05	0.57
6:WG:149:PRO:HG2	6:WG:190:GLN:NE2	2.19	0.57
6:WK:193:ALA:CB	6:WL:213:VAL:CG2	2.76	0.57
6:BR:305:GLY:HA3	6:BR:355:PRO:HG2	1.86	0.57
1:D:68:ASP:OD2	2:c:64:ASN:ND2	2.37	0.57
1:H:68:ASP:OD2	2:g:64:ASN:ND2	2.37	0.57
1:X:68:ASP:OD2	2:w:64:ASN:ND2	2.37	0.57
1:Z:68:ASP:OD2	2:y:64:ASN:ND2	2.37	0.57
2:e:93:TYR:OH	2:e:173:ARG:O	2.19	0.57
3:1:178:PHE:HE1	3:1:201:PRO:HB3	1.67	0.57
3:8:22:ILE:HG21	3:8:233:MET:HG3	1.87	0.57
4:ZG:180:LYS:HD2	4:ZG:181:LYS:H	1.70	0.57
4:ZJ:373:VAL:O	4:ZJ:377:VAL:HG23	2.04	0.57
4:ZL:167:LYS:HA	4:ZL:167:LYS:HE3	1.86	0.57
5:AC:55:THR:OG1	12:BD:45:LYS:NZ	2.36	0.57
6:AZ:377:MET:N	6:AZ:377:MET:SD	2.76	0.57
6:Aj:305:GLY:HA3	6:Aj:355:PRO:HG2	1.86	0.57
6:Am:377:MET:N	6:Am:377:MET:SD	2.76	0.57
6:An:252:ILE:HD11	6:An:419:ALA:HB2	1.85	0.57
6:AP:305:GLY:HA3	6:AP:355:PRO:HG2	1.86	0.57
9:Ax:161:GLY:CA	6:WE:167:ARG:CD	2.81	0.57
6:UL:69:GLN:HE22	6:WH:182:PRO:HG2	1.69	0.57
6:WJ:162:PRO:HA	6:WJ:169:GLN:CD	2.30	0.57
6:WM:197:LEU:CD1	6:WN:175:SER:OG	2.48	0.57
6:BW:377:MET:N	6:BW:377:MET:SD	2.77	0.57
1:X:150:VAL:HG12	1:X:165:GLY:HA3	1.87	0.57
1:Y:150:VAL:HG12	1:Y:165:GLY:HA3	1.87	0.57
2:h:208:ARG:O	2:h:212:SER:OG	2.21	0.57
2:s:88:MET:HE1	2:t:69:LEU:HD11	1.86	0.57
2:t:319:LEU:HD21	2:u:264:MET:CE	2.25	0.57
2:x:88:MET:HE1	2:y:69:LEU:HD11	1.86	0.57
3:ZB:7:ILE:HG23	3:ZB:71:GLY:HA2	1.86	0.57
4:ZM:270:ASN:HD22	4:ZS:192:ASN:HA	1.69	0.57
4:ZQ:281:GLN:NE2	4:ZQ:283:GLY:O	2.38	0.57
4:Zc:217:ASP:HB3	4:Zc:220:ALA:HB2	1.86	0.57
4:Zd:71:ARG:NH1	4:Zd:74:ASP:OD1	2.38	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:142:ILE:HD13	3:AH:149:ILE:HG12	1.86	0.57
6:AT:294:ARG:NE	11:A0:72:HIS:HE1	2.01	0.57
6:Ac:252:ILE:HD11	6:Ac:419:ALA:HB2	1.85	0.57
6:Ae:372:ILE:CB	10:A2:4:ILE:HG12	2.34	0.57
6:Ah:252:ILE:HD11	6:Ah:419:ALA:HB2	1.85	0.57
9:Aw:59:LEU:HD11	10:A2:102:MET:HE1	1.87	0.57
9:Ax:160:GLN:N	6:WE:166:VAL:HG22	2.18	0.57
6:WG:197:LEU:HD12	6:WH:175:SER:CB	2.35	0.57
6:WT:145:GLU:C	6:WT:147:LEU:H	2.12	0.57
6:WV:197:LEU:CD1	6:WW:175:SER:OG	2.53	0.57
6:BT:305:GLY:HA3	6:BT:355:PRO:HG2	1.85	0.57
6:BT:377:MET:N	6:BT:377:MET:SD	2.76	0.57
1:A:150:VAL:HG12	1:A:165:GLY:HA3	1.87	0.57
1:R:68:ASP:OD2	2:q:64:ASN:ND2	2.37	0.57
1:V:150:VAL:HG12	1:V:165:GLY:HA3	1.87	0.57
1:W:150:VAL:HG12	1:W:165:GLY:HA3	1.87	0.57
1:Z:150:VAL:HG12	1:Z:165:GLY:HA3	1.87	0.57
2:g:93:TYR:OH	2:g:173:ARG:O	2.19	0.57
2:h:93:TYR:OH	2:h:173:ARG:O	2.19	0.57
2:v:88:MET:HE1	2:w:69:LEU:HD11	1.86	0.57
3:1:67:GLN:HE22	3:AK:186:SER:H	1.53	0.57
3:ZE:85:ASN:HA	4:ZP:50:LEU:CD1	2.35	0.57
4:ZI:212:THR:HG21	4:ZI:246:ILE:HD13	1.86	0.57
4:ZJ:159:ASN:ND2	4:ZJ:161:THR:OG1	2.38	0.57
4:ZM:196:MET:HA	4:ZM:196:MET:HE3	1.86	0.57
4:ZV:349:GLY:O	4:Zb:89:ASN:ND2	2.38	0.57
4:ZY:17:LEU:HD13	4:Zd:395:ILE:HD11	1.86	0.57
4:ZZ:83:PHE:HB2	4:ZZ:95:SER:O	2.05	0.57
4:ZZ:196:MET:HE3	4:ZZ:196:MET:HA	1.87	0.57
4:Ze:34:SER:HB3	4:Ze:366:VAL:HG12	1.85	0.57
5:AC:152:PRO:HB2	3:AN:195:THR:HG22	1.85	0.57
3:AH:140:ILE:HD12	3:AH:171:GLY:HA2	1.86	0.57
3:AN:49:ILE:HD12	3:AN:66:LEU:HD11	1.86	0.57
6:AZ:252:ILE:HD11	6:AZ:419:ALA:HB2	1.85	0.57
6:UJ:126:PHE:CE1	6:UJ:130:VAL:CG2	2.84	0.57
6:BS:252:ILE:HD11	6:BS:419:ALA:HB2	1.85	0.57
6:BX:305:GLY:HA3	6:BX:355:PRO:HG2	1.86	0.57
1:C:68:ASP:OD2	2:b:64:ASN:ND2	2.37	0.57
1:U:150:VAL:HG12	1:U:165:GLY:HA3	1.87	0.57
2:a:69:LEU:HD11	2:z:88:MET:HE1	1.86	0.57
2:h:80:GLN:NE2	5:AE:154:THR:HG23	2.20	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:56:PRO:HG3	2:o:77:THR:HG21	1.87	0.57
2:p:56:PRO:HG3	2:q:77:THR:HG21	1.87	0.57
2:q:88:MET:HE1	2:r:69:LEU:HD11	1.86	0.57
2:r:56:PRO:HG3	2:s:77:THR:HG21	1.87	0.57
2:t:56:PRO:HG3	2:u:77:THR:HG21	1.87	0.57
2:u:88:MET:HE1	2:v:69:LEU:HD11	1.86	0.57
3:ZA:257:LEU:HG	3:AN:230:LEU:HD12	1.87	0.57
5:AE:221:ILE:HG23	3:AK:251:ASP:OD2	2.04	0.57
6:Af:365:ASN:ND2	11:A8:65:LEU:CD1	2.67	0.57
9:Ax:160:GLN:HA	6:WE:166:VAL:HG23	1.84	0.57
10:A4:11:ILE:CG2	6:BX:372:ILE:CG2	2.83	0.57
6:UP:126:PHE:O	6:UP:130:VAL:HB	2.05	0.57
6:WO:200:SER:O	6:WP:158:ALA:HB2	2.04	0.57
6:WQ:196:HIS:CD2	6:WR:219:LEU:HD22	2.40	0.57
6:BR:252:ILE:HD11	6:BR:419:ALA:HB2	1.85	0.57
1:G:150:VAL:HG12	1:G:165:GLY:HA3	1.87	0.57
1:H:150:VAL:HG12	1:H:165:GLY:HA3	1.87	0.57
1:I:224:ARG:O	1:I:228:ASN:ND2	2.36	0.57
1:P:224:ARG:O	1:P:228:ASN:ND2	2.36	0.57
2:v:56:PRO:HG3	2:w:77:THR:HG21	1.87	0.57
3:6:77:THR:HG23	3:ZB:66:LEU:HD12	1.87	0.57
3:7:98:LYS:NZ	3:ZD:187:ILE:O	2.37	0.57
3:ZC:240:TYR:CD2	4:ZH:395:ILE:HG21	2.37	0.57
4:ZG:165:PRO:HG2	4:ZG:201:VAL:HG13	1.86	0.57
4:ZN:319:ASN:ND2	4:ZN:352:ASN:O	2.38	0.57
5:AB:153:ASN:ND2	3:AM:194:GLU:HG2	2.20	0.57
5:AB:243:ARG:HD2	12:BC:113:GLN:HG2	1.86	0.57
3:AL:1:MET:HG3	3:AL:2:ILE:H	1.69	0.57
6:Al:295:SER:HB2	11:A7:65:LEU:HD22	1.86	0.57
6:Ap:305:GLY:HA3	6:Ap:355:PRO:HG2	1.86	0.57
8:At:170:MET:O	8:At:174:ARG:N	2.26	0.57
9:Ax:161:GLY:CA	6:WE:167:ARG:HD3	2.26	0.57
12:BB:94:PRO:HB2	12:BB:96:VAL:HG23	1.86	0.57
6:WC:196:HIS:HB3	6:WD:211:THR:HG21	1.87	0.57
6:WU:200:SER:O	6:WV:158:ALA:CB	2.52	0.57
6:BS:305:GLY:HA3	6:BS:355:PRO:HG2	1.86	0.57
6:BU:305:GLY:HA3	6:BU:355:PRO:HG2	1.86	0.57
6:BW:305:GLY:HA3	6:BW:355:PRO:HG2	1.86	0.57
1:B:150:VAL:HG12	1:B:165:GLY:HA3	1.87	0.57
1:D:150:VAL:HG12	1:D:165:GLY:HA3	1.87	0.57
1:E:150:VAL:HG12	1:E:165:GLY:HA3	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:150:VAL:HG12	1:F:165:GLY:HA3	1.87	0.57
1:I:150:VAL:HG12	1:I:165:GLY:HA3	1.87	0.57
1:N:150:VAL:HG12	1:N:165:GLY:HA3	1.87	0.57
1:O:150:VAL:HG12	1:O:165:GLY:HA3	1.87	0.57
1:Q:150:VAL:HG12	1:Q:165:GLY:HA3	1.87	0.57
1:R:150:VAL:HG12	1:R:165:GLY:HA3	1.87	0.57
1:T:150:VAL:HG12	1:T:165:GLY:HA3	1.87	0.57
2:i:93:TYR:OH	2:i:173:ARG:O	2.19	0.57
2:w:208:ARG:O	2:w:212:SER:OG	2.21	0.57
2:x:56:PRO:HG3	2:y:77:THR:HG21	1.87	0.57
3:3:7:ILE:HG23	3:3:71:GLY:HA2	1.86	0.57
3:6:1:MET:HE2	3:AJ:226:VAL:HG11	1.87	0.57
3:7:241:GLU:HG2	3:ZC:256:LYS:HG3	1.87	0.57
3:ZB:208:LEU:O	3:ZB:210:GLY:N	2.38	0.57
4:ZI:183:THR:OG1	4:ZT:131:GLY:O	2.16	0.57
4:ZS:322:ASN:HB3	4:ZS:340:SER:HA	1.87	0.57
4:ZW:6:ALA:HB1	4:ZW:389:ILE:HG12	1.87	0.57
4:Zb:349:GLY:O	4:Zh:89:ASN:ND2	2.35	0.57
4:Zd:102:LEU:HD11	4:Zd:139:ILE:HD12	1.87	0.57
4:Ze:106:ARG:HH22	4:Ze:141:ASN:HB3	1.68	0.57
4:Ze:156:ILE:HG13	4:Ze:276:ILE:HA	1.87	0.57
5:AD:9:MET:HB2	12:BD:103:VAL:HG21	1.85	0.57
6:AY:305:GLY:HA3	6:AY:355:PRO:HG2	1.86	0.57
6:Ai:305:GLY:HA3	6:Ai:355:PRO:HG2	1.86	0.57
6:Aj:372:ILE:HB	10:A1:11:ILE:HG21	1.87	0.57
6:Ak:377:MET:N	6:Ak:377:MET:SD	2.77	0.57
6:Ao:377:MET:SD	6:Ao:377:MET:N	2.76	0.57
6:AO:305:GLY:HA3	6:AO:355:PRO:HG2	1.86	0.57
8:At:149:LEU:O	8:At:153:THR:HG23	2.05	0.57
6:UJ:126:PHE:O	6:UJ:130:VAL:HB	2.05	0.57
6:WG:197:LEU:HA	6:WH:175:SER:OG	2.05	0.57
6:WK:170:LYS:O	6:WK:171:SER:C	2.47	0.57
6:WQ:124:SER:O	6:WQ:127:SER:N	2.37	0.57
6:WS:145:GLU:C	6:WS:147:LEU:H	2.12	0.57
1:C:150:VAL:HG12	1:C:165:GLY:HA3	1.87	0.56
1:C:224:ARG:O	1:C:228:ASN:ND2	2.35	0.56
1:J:150:VAL:HG12	1:J:165:GLY:HA3	1.87	0.56
1:L:68:ASP:OD2	2:k:64:ASN:ND2	2.37	0.56
1:L:150:VAL:HG12	1:L:165:GLY:HA3	1.87	0.56
1:M:150:VAL:HG12	1:M:165:GLY:HA3	1.87	0.56
1:Q:68:ASP:OD2	2:p:64:ASN:ND2	2.37	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:224:ARG:O	1:Z:228:ASN:ND2	2.36	0.56
2:l:56:PRO:HG3	2:m:77:THR:HG21	1.87	0.56
2:o:208:ARG:O	2:o:212:SER:OG	2.21	0.56
2:s:93:TYR:OH	2:s:173:ARG:O	2.19	0.56
4:ZS:235:ASN:OD1	4:ZY:189:SER:OG	2.23	0.56
4:ZU:159:ASN:N	4:ZU:274:ASN:OD1	2.32	0.56
4:Ze:95:SER:HB2	4:Ze:333:VAL:HG23	1.87	0.56
3:AF:241:GLU:OE1	3:AL:258:THR:OG1	2.22	0.56
6:Aa:252:ILE:HD11	6:Aa:419:ALA:HB2	1.85	0.56
6:Ad:305:GLY:HA3	6:Ad:355:PRO:HG2	1.86	0.56
6:UI:126:PHE:O	6:UI:130:VAL:HB	2.05	0.56
6:UL:73:MET:HE3	6:UL:99:ARG:HD3	1.81	0.56
6:WK:187:ASP:OD1	6:WK:187:ASP:N	2.38	0.56
6:WQ:145:GLU:C	6:WQ:147:LEU:H	2.13	0.56
6:WV:160:PRO:HB2	6:WV:170:LYS:HB2	1.87	0.56
1:F:224:ARG:O	1:F:228:ASN:ND2	2.36	0.56
1:G:68:ASP:OD2	2:f:64:ASN:ND2	2.37	0.56
1:K:150:VAL:HG12	1:K:165:GLY:HA3	1.87	0.56
1:P:150:VAL:HG12	1:P:165:GLY:HA3	1.87	0.56
1:W:224:ARG:O	1:W:228:ASN:ND2	2.36	0.56
2:b:88:MET:HE1	2:c:69:LEU:HD11	1.86	0.56
2:k:78:ASN:CG	3:Aj:141:THR:OG1	2.48	0.56
2:o:88:MET:HE1	2:p:69:LEU:HD11	1.86	0.56
2:t:88:MET:HE1	2:u:69:LEU:HD11	1.86	0.56
3:3:19:MET:HB2	3:3:236:VAL:HG11	1.87	0.56
3:9:115:THR:HB	3:9:191:LEU:HD23	1.87	0.56
3:ZC:123:ASP:OD1	3:ZC:123:ASP:N	2.39	0.56
3:ZD:52:PRO:HG3	3:ZD:67:GLN:HE21	1.70	0.56
4:Zc:395:ILE:O	4:Zc:398:THR:HG22	2.06	0.56
5:AC:71:LEU:CD2	3:AN:70:THR:HG21	2.35	0.56
5:AC:181:LEU:HD11	5:AC:193:LEU:HG	1.86	0.56
6:AQ:252:ILE:HD11	6:AQ:419:ALA:HB2	1.85	0.56
7:Aq:9:MET:HA	7:Aq:12:GLU:OE1	2.05	0.56
10:A1:8:GLU:O	10:A1:11:ILE:HG13	2.05	0.56
10:A4:8:GLU:O	10:A4:11:ILE:HG13	2.05	0.56
6:UK:207:PRO:HG2	6:WE:187:ASP:OD2	2.05	0.56
6:UN:126:PHE:O	6:UN:130:VAL:HB	2.05	0.56
6:UO:126:PHE:O	6:UO:130:VAL:HB	2.05	0.56
1:B:68:ASP:OD2	2:a:64:ASN:ND2	2.37	0.56
1:S:150:VAL:HG12	1:S:165:GLY:HA3	1.87	0.56
1:W:68:ASP:OD2	2:v:64:ASN:ND2	2.37	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:264:MET:O	2:z:273:CYS:CB	2.40	0.56
2:e:56:PRO:HG3	2:f:77:THR:HG21	1.87	0.56
2:g:208:ARG:O	2:g:212:SER:OG	2.21	0.56
2:j:93:TYR:OH	2:j:173:ARG:O	2.19	0.56
2:n:93:TYR:OH	2:n:173:ARG:O	2.19	0.56
2:u:319:LEU:HD21	2:v:264:MET:CE	2.25	0.56
2:w:88:MET:HE1	2:x:69:LEU:HD11	1.86	0.56
3:8:227:ALA:CB	4:ZJ:399:LEU:HD22	2.35	0.56
3:ZC:22:ILE:HG21	3:ZC:233:MET:HG3	1.87	0.56
3:ZD:70:THR:HG22	3:ZD:71:GLY:H	1.70	0.56
3:ZD:88:GLN:HE21	4:ZO:53:LYS:HB2	1.69	0.56
4:ZJ:165:PRO:HG2	4:ZJ:201:VAL:HG13	1.85	0.56
4:ZM:24:ILE:O	4:ZM:27:SER:OG	2.22	0.56
4:ZR:107:ASN:ND2	4:ZR:138:THR:OG1	2.38	0.56
4:ZR:267:MET:HE2	4:ZR:269:GLN:NE2	2.19	0.56
4:ZW:228:THR:HB	4:ZW:244:VAL:HG21	1.87	0.56
5:AA:215:GLU:HG3	3:AG:9:LYS:HZ2	1.69	0.56
5:AA:226:ARG:O	5:AA:230:GLN:HG2	2.05	0.56
5:AE:231:MET:CE	3:AJ:260:LEU:HD23	2.35	0.56
3:AH:62:LEU:HD21	12:BD:83:PRO:HD2	1.86	0.56
6:AS:305:GLY:HA3	6:AS:355:PRO:HG2	1.86	0.56
6:AT:305:GLY:HA3	6:AT:355:PRO:HG2	1.86	0.56
6:Aj:372:ILE:CG1	10:A1:11:ILE:HG22	2.31	0.56
7:Ar:68:TRP:CD1	6:WA:121:PHE:HB3	2.40	0.56
9:Ay:148:ALA:HB1	6:WI:164:LEU:HD13	1.88	0.56
10:A5:8:GLU:O	10:A5:11:ILE:HG13	2.06	0.56
11:A7:114:LEU:HD21	12:BC:126:MET:SD	2.45	0.56
6:UJ:103:GLN:CD	6:WD:182:PRO:HB3	2.27	0.56
6:WA:213:VAL:HG21	6:WW:193:ALA:HB1	1.86	0.56
6:WB:187:ASP:CG	6:WB:190:GLN:HG3	2.30	0.56
6:WM:201:ALA:C	6:WN:158:ALA:HB2	2.30	0.56
6:WU:197:LEU:HD12	6:WV:175:SER:HB3	1.87	0.56
2:a:77:THR:HG21	2:z:56:PRO:HG3	1.87	0.56
2:c:56:PRO:HG3	2:d:77:THR:HG21	1.87	0.56
2:d:88:MET:HE1	2:e:69:LEU:HD11	1.86	0.56
2:j:54:GLN:NE2	3:AJ:139:ALA:CB	2.68	0.56
2:j:56:PRO:HG3	2:k:77:THR:HG21	1.87	0.56
2:o:51:GLN:NE2	3:AI:139:ALA:CB	2.69	0.56
2:u:273:CYS:CB	2:v:264:MET:O	2.40	0.56
3:2:128:LEU:HD12	3:2:140:ILE:HB	1.88	0.56
3:3:49:ILE:HG21	3:3:66:LEU:HD23	1.86	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZN:65:THR:HA	4:ZY:50:LEU:HD23	1.88	0.56
4:ZS:180:LYS:HD2	4:ZS:181:LYS:H	1.71	0.56
4:Zd:159:ASN:ND2	4:Zd:162:ASP:OD2	2.38	0.56
4:Zf:69:THR:OG1	4:Zf:74:ASP:OD2	2.20	0.56
5:AB:71:LEU:HB2	3:AM:70:THR:CG2	2.34	0.56
5:AE:248:LEU:HD13	12:BE:118:VAL:HG23	1.88	0.56
3:AF:255:GLN:O	3:AF:259:GLN:HG2	2.05	0.56
6:An:305:GLY:HA3	6:An:355:PRO:HG2	1.86	0.56
7:Ar:4:GLU:C	7:Ar:6:VAL:H	2.13	0.56
10:Az:8:GLU:O	10:Az:11:ILE:HG13	2.05	0.56
6:UM:51:TYR:OH	6:UM:76:PRO:HB2	2.05	0.56
6:UN:51:TYR:OH	6:UN:76:PRO:HB2	2.05	0.56
6:WN:203:ALA:HB2	6:WO:160:PRO:HA	1.86	0.56
6:BV:305:GLY:HA3	6:BV:355:PRO:HG2	1.86	0.56
2:a:56:PRO:HG3	2:b:77:THR:HG21	1.87	0.56
2:m:88:MET:HE1	2:n:69:LEU:HD11	1.86	0.56
3:0:77:THR:HG23	3:5:66:LEU:HD12	1.87	0.56
3:ZB:19:MET:HE1	3:ZB:233:MET:HG3	1.86	0.56
4:ZF:331:ASP:HA	4:ZK:40:ALA:HB1	1.88	0.56
4:ZJ:41:ASP:HB2	4:ZJ:43:PHE:CE2	2.40	0.56
4:ZK:102:LEU:HD21	4:ZK:106:ARG:HD3	1.86	0.56
4:ZK:379:GLN:HG3	4:ZP:391:THR:HG23	1.87	0.56
4:ZO:156:ILE:HG21	4:ZO:200:PHE:HE2	1.71	0.56
4:ZT:294:ILE:O	4:ZT:358:ASN:ND2	2.39	0.56
4:ZV:144:MET:HG2	4:ZV:287:GLY:H	1.71	0.56
3:AK:22:ILE:HG21	3:AK:233:MET:HG3	1.88	0.56
6:AR:252:ILE:HD11	6:AR:419:ALA:HB2	1.85	0.56
7:As:25:LEU:HD23	9:Ay:206:ALA:HB2	1.86	0.56
8:At:205:ASN:HD21	9:Au:211:MET:HB2	1.70	0.56
9:Aw:66:ARG:HG3	9:Aw:182:ALA:HB2	1.87	0.56
6:WC:170:LYS:H	6:WC:170:LYS:HD2	1.69	0.56
6:WI:170:LYS:O	6:WI:171:SER:OG	2.21	0.56
2:g:56:PRO:HG3	2:h:77:THR:HG21	1.87	0.56
2:k:93:TYR:OH	2:k:173:ARG:O	2.19	0.56
2:y:56:PRO:HG3	2:z:77:THR:HG21	1.87	0.56
3:1:193:ILE:HG22	5:AE:152:PRO:HG3	1.85	0.56
3:6:185:GLU:OE1	3:ZB:51:GLN:NE2	2.38	0.56
3:ZD:122:VAL:O	4:ZI:322:ASN:CG	2.48	0.56
4:ZH:75:VAL:CG1	4:ZH:356:LEU:HB3	2.35	0.56
4:ZK:310:GLN:O	4:ZK:312:LEU:HD12	2.05	0.56
4:ZO:304:TYR:HE1	4:ZO:310:GLN:HB3	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AB:153:ASN:HD21	3:AM:194:GLU:CG	2.19	0.56
11:A6:23:GLN:HE22	12:BA:125:MET:HE1	1.69	0.56
6:UJ:55:PHE:HB2	6:UJ:58:LEU:HD11	1.88	0.56
6:WR:123:ILE:HB	6:WR:127:SER:OG	2.06	0.56
2:c:88:MET:HE1	2:d:69:LEU:HD11	1.86	0.56
2:e:88:MET:HE1	2:f:69:LEU:HD11	1.86	0.56
2:f:88:MET:HE1	2:g:69:LEU:HD11	1.86	0.56
2:i:56:PRO:HG3	2:j:77:THR:HG21	1.87	0.56
2:v:208:ARG:O	2:v:212:SER:OG	2.21	0.56
2:w:56:PRO:HG3	2:x:77:THR:HG21	1.87	0.56
3:8:122:VAL:O	3:ZD:180:ASN:ND2	2.39	0.56
3:9:45:LEU:HD22	3:AM:98:LYS:CG	2.30	0.56
3:ZE:85:ASN:HA	4:ZP:50:LEU:HD11	1.88	0.56
4:ZJ:195:ASP:OD2	4:ZJ:216:SER:OG	2.17	0.56
4:ZM:171:SER:O	4:ZM:177:SER:OG	2.23	0.56
4:ZX:159:ASN:ND2	4:ZX:161:THR:OG1	2.35	0.56
5:AA:231:MET:HE3	3:AF:260:LEU:HD13	1.88	0.56
5:AC:9:MET:HB2	12:BC:103:VAL:HG21	1.86	0.56
6:Ao:305:GLY:HA3	6:Ao:355:PRO:HG2	1.86	0.56
6:UI:51:TYR:OH	6:UI:76:PRO:HB2	2.06	0.56
6:UP:51:TYR:OH	6:UP:76:PRO:HB2	2.05	0.56
6:UP:55:PHE:HB2	6:UP:58:LEU:HD11	1.88	0.56
6:WU:200:SER:O	6:WV:158:ALA:HB2	2.06	0.56
1:T:224:ARG:O	1:T:228:ASN:ND2	2.35	0.56
2:g:88:MET:HE1	2:h:69:LEU:HD11	1.86	0.56
2:y:88:MET:HE1	2:z:69:LEU:HD11	1.86	0.56
3:2:9:LYS:HE3	3:AK:228:GLU:HG3	1.87	0.56
3:ZA:99:GLY:O	3:ZA:116:ARG:NH2	2.39	0.56
3:ZA:218:TYR:HH	4:ZL:53:LYS:HB2	1.71	0.56
3:ZA:233:MET:SD	4:ZF:388:THR:HB	2.46	0.56
3:ZA:248:SER:HB2	4:ZF:402:LEU:HD22	1.87	0.56
3:ZE:128:LEU:HD13	3:ZE:140:ILE:HB	1.87	0.56
4:ZI:71:ARG:NH1	4:ZI:74:ASP:OD1	2.39	0.56
4:ZK:99:GLN:HG3	4:ZK:361:LEU:HD11	1.88	0.56
4:ZP:107:ASN:HD22	4:ZP:138:THR:HG22	1.70	0.56
4:ZQ:390:LYS:HB2	4:ZV:402:LEU:HD22	1.86	0.56
4:ZS:159:ASN:ND2	4:ZS:162:ASP:OD1	2.38	0.56
4:Zc:331:ASP:HA	4:Zh:40:ALA:HB1	1.87	0.56
5:AD:2:ASP:OD2	5:AD:4:ALA:N	2.31	0.56
8:At:93:ALA:HB2	9:Au:88:VAL:HG21	1.87	0.56
12:BB:72:ALA:O	12:BB:95:ASN:ND2	2.38	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WA:175:SER:HB2	6:WW:200:SER:HG	1.71	0.56
6:WA:216:SER:O	6:WW:190:GLN:NE2	2.39	0.56
6:WB:143:THR:OG1	6:WC:154:ARG:HG2	2.06	0.56
6:WJ:200:SER:O	6:WK:158:ALA:CB	2.54	0.56
6:WM:190:GLN:HG3	6:WN:217:GLY:HA3	1.88	0.56
1:J:63:GLN:HE21	2:i:68:GLN:HE22	1.54	0.56
1:Y:63:GLN:HE21	2:x:68:GLN:HE22	1.54	0.56
2:a:88:MET:HE1	2:b:69:LEU:HD11	1.86	0.56
2:e:43:VAL:HG12	2:e:84:VAL:HG22	1.88	0.56
2:f:43:VAL:HG12	2:f:84:VAL:HG22	1.88	0.56
2:g:43:VAL:HG12	2:g:84:VAL:HG22	1.88	0.56
2:i:88:MET:HE1	2:j:69:LEU:HD11	1.86	0.56
2:k:88:MET:HE1	2:l:69:LEU:HD11	1.86	0.56
2:k:273:CYS:CB	2:l:264:MET:O	2.40	0.56
2:l:88:MET:HE1	2:m:69:LEU:HD11	1.86	0.56
2:n:88:MET:HE1	2:o:69:LEU:HD11	1.86	0.56
2:p:273:CYS:CB	2:q:264:MET:O	2.40	0.56
2:u:56:PRO:HG3	2:v:77:THR:HG21	1.87	0.56
3:l:91:ASN:ND2	3:l:94:ASP:OD1	2.39	0.56
3:ZD:189:GLU:OE1	4:ZL:53:LYS:HE2	2.06	0.56
4:ZL:165:PRO:HG3	4:ZL:179:ASN:ND2	2.20	0.56
4:ZP:164:VAL:HG22	4:ZP:202:LYS:HG2	1.87	0.56
6:An:278:THR:HG21	10:Az:14:LEU:CB	2.35	0.56
9:Au:139:LEU:O	6:WO:166:VAL:CG2	2.50	0.56
6:UL:216:SER:C	6:UL:218:HIS:H	2.14	0.56
6:UO:51:TYR:OH	6:UO:76:PRO:HB2	2.05	0.56
6:UO:102:GLN:HG2	6:UO:193:ALA:HB2	1.88	0.56
6:WT:187:ASP:OD1	6:WT:190:GLN:N	2.39	0.56
1:M:63:GLN:HE21	2:l:68:GLN:HE22	1.54	0.56
1:W:63:GLN:HE21	2:v:68:GLN:HE22	1.54	0.56
2:h:56:PRO:HG3	2:i:77:THR:HG21	1.87	0.56
2:h:88:MET:HE1	2:i:69:LEU:HD11	1.86	0.56
2:k:56:PRO:HG3	2:l:77:THR:HG21	1.87	0.56
2:p:88:MET:HE1	2:q:69:LEU:HD11	1.86	0.56
2:r:88:MET:HE1	2:s:69:LEU:HD11	1.86	0.56
2:v:319:LEU:HD21	2:w:264:MET:CE	2.25	0.56
3:5:51:GLN:HE21	5:AD:152:PRO:HB3	1.71	0.56
4:ZK:118:GLY:HA2	4:ZK:316:VAL:HG12	1.87	0.56
4:ZO:186:VAL:HG23	4:ZO:194:HIS:HB2	1.87	0.56
4:ZS:247:THR:HG23	4:ZS:258:THR:HG22	1.88	0.56
5:AE:148:PRO:HB2	3:AJ:210:GLY:HA3	1.88	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:241:GLU:OE1	3:AN:258:THR:OG1	2.20	0.56
6:UI:55:PHE:HB2	6:UI:58:LEU:HD11	1.88	0.56
6:WL:190:GLN:NE2	6:WM:216:SER:O	2.39	0.56
6:WP:145:GLU:C	6:WP:147:LEU:H	2.14	0.56
1:A:63:GLN:HE21	2:z:68:GLN:HE22	1.54	0.55
1:D:63:GLN:HE21	2:c:68:GLN:HE22	1.55	0.55
1:K:68:ASP:OD2	2:j:64:ASN:ND2	2.37	0.55
1:M:224:ARG:O	1:M:228:ASN:ND2	2.36	0.55
1:T:63:GLN:HE21	2:s:68:GLN:HE22	1.55	0.55
1:V:63:GLN:HE21	2:u:68:GLN:HE22	1.54	0.55
2:f:208:ARG:O	2:f:212:SER:OG	2.21	0.55
2:h:43:VAL:HG12	2:h:84:VAL:HG22	1.88	0.55
2:j:88:MET:HE1	2:k:69:LEU:HD11	1.86	0.55
2:n:208:ARG:O	2:n:212:SER:OG	2.21	0.55
2:s:56:PRO:HG3	2:t:77:THR:HG21	1.87	0.55
3:l:9:LYS:HE2	5:AE:72:ASP:OD1	2.06	0.55
3:8:241:GLU:HB3	3:ZE:258:THR:HG21	1.87	0.55
3:ZB:238:ARG:NH1	4:ZH:393:ASP:OD1	2.39	0.55
4:ZG:112:GLN:HG2	4:ZG:331:ASP:HB3	1.87	0.55
4:ZI:269:GLN:HE22	4:ZO:146:ALA:H	1.53	0.55
4:ZI:382:TYR:CE1	4:ZN:395:ILE:HG23	2.41	0.55
4:Zb:217:ASP:HB3	4:Zb:220:ALA:HB2	1.89	0.55
4:Ze:130:GLN:H	4:Ze:130:GLN:CD	2.14	0.55
6:AX:370:ARG:HH21	10:A3:14:LEU:HD11	1.71	0.55
10:A4:7:ILE:HG22	6:BX:278:THR:HG21	1.78	0.55
11:A6:73:ILE:HG13	6:BR:295:SER:HB2	1.88	0.55
6:UL:126:PHE:O	6:UL:130:VAL:HB	2.05	0.55
6:UL:126:PHE:CD1	6:UL:130:VAL:CG2	2.90	0.55
6:UN:126:PHE:CE1	6:UN:130:VAL:CG2	2.84	0.55
6:UO:55:PHE:HB2	6:UO:58:LEU:HD11	1.88	0.55
6:WA:156:HIS:HD2	6:WW:197:LEU:HD11	1.71	0.55
6:WD:143:THR:OG1	6:WE:154:ARG:HG2	2.06	0.55
1:B:63:GLN:HE21	2:a:68:GLN:HE22	1.55	0.55
1:F:68:ASP:OD2	2:e:64:ASN:ND2	2.37	0.55
1:G:63:GLN:HE21	2:f:68:GLN:HE22	1.55	0.55
1:L:63:GLN:HE21	2:k:68:GLN:HE22	1.55	0.55
1:O:63:GLN:HE21	2:n:68:GLN:HE22	1.55	0.55
1:Q:63:GLN:HE21	2:p:68:GLN:HE22	1.55	0.55
1:R:63:GLN:HE21	2:q:68:GLN:HE22	1.55	0.55
2:d:43:VAL:HG12	2:d:84:VAL:HG22	1.89	0.55
2:t:93:TYR:OH	2:t:173:ARG:O	2.19	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:22:ILE:HG21	3:4:233:MET:HG2	1.88	0.55
4:ZH:380:ARG:NH1	4:ZN:393:ASP:OD1	2.40	0.55
4:ZL:8:SER:OG	4:ZL:52:VAL:O	2.23	0.55
4:ZM:105:ASN:HB2	4:ZM:107:ASN:HD21	1.70	0.55
4:ZZ:33:LYS:O	4:ZZ:59:GLN:NE2	2.38	0.55
5:AB:202:MET:CE	3:AM:73:ARG:NH1	2.65	0.55
5:AE:196:ASP:HB3	5:AE:199:ILE:HD12	1.88	0.55
8:At:166:SER:C	8:At:168:ALA:N	2.64	0.55
10:A1:87:GLN:O	10:A1:91:LYS:HG2	2.06	0.55
10:A2:12:SER:O	10:A2:15:GLN:HG3	2.06	0.55
11:A6:42:ASP:HB3	6:BI:316:LEU:HD21	1.88	0.55
6:UJ:126:PHE:CD1	6:UJ:130:VAL:CG2	2.90	0.55
6:UM:126:PHE:O	6:UM:130:VAL:HB	2.05	0.55
6:UP:102:GLN:HG2	6:UP:193:ALA:HB2	1.89	0.55
6:WJ:139:GLU:HB3	6:WK:154:ARG:HH21	1.70	0.55
6:WJ:190:GLN:HG2	6:WK:216:SER:O	2.07	0.55
6:WM:200:SER:HG	6:WN:175:SER:HB2	1.67	0.55
1:I:63:GLN:HE21	2:h:68:GLN:HE22	1.54	0.55
1:V:68:ASP:OD2	2:u:64:ASN:ND2	2.37	0.55
1:X:63:GLN:HE21	2:w:68:GLN:HE22	1.54	0.55
2:b:56:PRO:HG3	2:c:77:THR:HG21	1.87	0.55
2:c:43:VAL:HG12	2:c:84:VAL:HG22	1.88	0.55
2:e:80:GLN:HE22	3:AK:203:GLU:CB	2.18	0.55
2:i:43:VAL:HG12	2:i:84:VAL:HG22	1.88	0.55
2:m:56:PRO:HG3	2:n:77:THR:HG21	1.87	0.55
2:q:56:PRO:HG3	2:r:77:THR:HG21	1.87	0.55
2:t:43:VAL:HG12	2:t:84:VAL:HG22	1.88	0.55
3:1:70:THR:HG21	5:AE:71:LEU:CG	2.33	0.55
3:2:34:PHE:HB3	3:2:222:SER:HB3	1.87	0.55
3:4:55:GLN:NE2	3:4:57:SER:O	2.40	0.55
3:5:9:LYS:HE3	3:AN:228:GLU:HG3	1.89	0.55
3:ZD:76:ALA:HB1	4:ZI:47:LYS:CE	2.29	0.55
4:ZG:397:ASN:OD1	4:ZG:401:ASN:ND2	2.39	0.55
4:ZO:236:GLY:O	4:ZO:237:ILE:C	2.49	0.55
4:ZV:330:GLY:O	4:ZV:333:VAL:HG12	2.06	0.55
4:ZY:217:ASP:HB3	4:ZY:220:ALA:HB2	1.89	0.55
4:Zd:381:ASN:OD1	4:Zd:385:ASN:ND2	2.39	0.55
5:AC:75:SER:O	5:AC:75:SER:OG	2.23	0.55
5:AD:16:LEU:CD2	3:AI:253:MET:HE3	2.33	0.55
3:AJ:38:ARG:NH2	3:AJ:78:GLU:OE1	2.36	0.55
6:AZ:264:ALA:HB2	6:AZ:389:VAL:HG13	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AQ:264:ALA:HB2	6:AQ:389:VAL:HG13	1.89	0.55
9:Ay:75:ARG:NH1	9:Ay:86:ASN:OD1	2.36	0.55
6:UN:55:PHE:HB2	6:UN:58:LEU:HD11	1.88	0.55
6:WG:190:GLN:NE2	6:WH:216:SER:O	2.39	0.55
6:WI:145:GLU:C	6:WI:147:LEU:H	2.13	0.55
6:WO:128:GLU:HG2	6:WP:126:PHE:CD2	2.40	0.55
6:WS:172:PRO:HD2	6:WS:204:GLY:O	2.07	0.55
1:C:63:GLN:HE21	2:b:68:GLN:HE22	1.54	0.55
1:E:63:GLN:HE21	2:d:68:GLN:HE22	1.55	0.55
1:H:63:GLN:HE21	2:g:68:GLN:HE22	1.55	0.55
1:N:63:GLN:HE21	2:m:68:GLN:HE22	1.55	0.55
1:P:63:GLN:HE21	2:o:68:GLN:HE22	1.55	0.55
1:Z:63:GLN:HE21	2:y:68:GLN:HE22	1.54	0.55
2:i:208:ARG:O	2:i:212:SER:OG	2.21	0.55
2:j:43:VAL:HG12	2:j:84:VAL:HG22	1.88	0.55
2:z:93:TYR:OH	2:z:173:ARG:O	2.19	0.55
3:3:9:LYS:HE3	3:AL:228:GLU:HG3	1.89	0.55
3:6:54:ALA:HA	5:AE:155:VAL:HG21	1.89	0.55
4:ZJ:41:ASP:HB2	4:ZJ:43:PHE:HE2	1.71	0.55
4:ZS:117:THR:HG22	4:ZS:136:PRO:HA	1.88	0.55
4:ZX:80:ASN:ND2	4:ZX:352:ASN:OD1	2.39	0.55
5:AB:109:PRO:HG3	3:AG:197:SER:CA	2.36	0.55
3:AN:229:GLU:O	3:AN:233:MET:HG3	2.06	0.55
6:AV:278:THR:CG2	10:A3:21:ALA:HB1	2.35	0.55
6:AV:355:PRO:CB	6:BO:319:GLN:NE2	2.69	0.55
9:Au:38:TRP:HB2	10:A1:46:SER:OG	2.06	0.55
9:Au:143:ARG:HH11	6:WO:165:PHE:HE1	1.54	0.55
9:Aw:58:LEU:O	9:Aw:62:THR:OG1	2.23	0.55
10:A5:89:ARG:NH2	10:A5:90:ASN:OD1	2.39	0.55
6:WB:197:LEU:HD12	6:WC:175:SER:HB3	1.87	0.55
6:BT:264:ALA:HB2	6:BT:389:VAL:HG13	1.89	0.55
1:K:63:GLN:HE21	2:j:68:GLN:HE22	1.54	0.55
1:S:63:GLN:HE21	2:r:68:GLN:HE22	1.55	0.55
2:j:208:ARG:O	2:j:212:SER:OG	2.21	0.55
2:k:208:ARG:O	2:k:212:SER:OG	2.21	0.55
2:l:208:ARG:O	2:l:212:SER:OG	2.21	0.55
2:m:93:TYR:OH	2:m:173:ARG:O	2.19	0.55
2:q:43:VAL:HG12	2:q:84:VAL:HG22	1.88	0.55
2:r:43:VAL:HG12	2:r:84:VAL:HG22	1.88	0.55
2:s:43:VAL:HG12	2:s:84:VAL:HG22	1.88	0.55
3:0:6:TRP:O	3:0:10:THR:HG23	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:0:9:LYS:HE3	5:AD:72:ASP:OD2	2.05	0.55
3:3:107:LEU:HD12	3:3:111:THR:HG23	1.88	0.55
3:ZD:233:MET:CE	4:ZI:388:THR:HG23	2.36	0.55
4:ZM:129:GLN:HE21	4:ZM:132:ALA:HB2	1.71	0.55
4:ZV:111:MET:N	4:ZV:111:MET:SD	2.79	0.55
4:ZZ:160:SER:O	4:ZZ:202:LYS:NZ	2.39	0.55
4:Zh:97:ASN:OD1	4:Zh:99:GLN:NE2	2.40	0.55
6:AW:264:ALA:HB2	6:AW:389:VAL:HG13	1.89	0.55
6:UI:102:GLN:HG2	6:UI:193:ALA:HB2	1.89	0.55
6:UK:51:TYR:OH	6:UK:76:PRO:HB2	2.06	0.55
6:UM:102:GLN:HG2	6:UM:193:ALA:HB2	1.88	0.55
6:WR:197:LEU:HA	6:WS:175:SER:OG	2.07	0.55
6:BS:264:ALA:HB2	6:BS:389:VAL:HG13	1.89	0.55
6:BV:377:MET:N	6:BV:377:MET:SD	2.76	0.55
1:A:68:ASP:OD2	2:z:64:ASN:ND2	2.37	0.55
2:b:43:VAL:HG12	2:b:84:VAL:HG22	1.88	0.55
2:b:208:ARG:O	2:b:212:SER:OG	2.21	0.55
2:c:53:THR:HG21	3:AF:168:VAL:HG22	1.88	0.55
2:c:208:ARG:O	2:c:212:SER:OG	2.21	0.55
2:e:208:ARG:O	2:e:212:SER:OG	2.21	0.55
2:o:56:PRO:HG3	2:p:77:THR:HG21	1.87	0.55
2:p:43:VAL:HG12	2:p:84:VAL:HG22	1.88	0.55
2:u:43:VAL:HG12	2:u:84:VAL:HG22	1.88	0.55
3:0:22:ILE:HG21	3:0:233:MET:HG3	1.87	0.55
3:9:45:LEU:HD21	3:AM:215:TYR:CE2	2.42	0.55
4:ZN:112:GLN:HG2	4:ZN:331:ASP:HB3	1.88	0.55
4:ZU:16:ASN:O	4:ZU:20:ILE:HG13	2.06	0.55
4:Zc:379:GLN:NE2	4:Zh:394:GLN:HE21	2.05	0.55
5:AB:28:ASN:ND2	3:AG:43:ASP:HB3	2.21	0.55
7:Ab:67:PRO:HB3	6:WP:123:ILE:CG2	2.35	0.55
6:Aj:372:ILE:HG22	10:A1:11:ILE:HG21	1.82	0.55
6:Ao:409:MET:HE2	6:Ao:409:MET:HA	1.89	0.55
8:At:233:MET:O	8:At:236:ILE:HG12	2.06	0.55
9:Ay:230:ASP:OD2	9:Ay:230:ASP:N	2.40	0.55
6:UI:211:THR:HG23	6:UI:219:LEU:HD11	1.89	0.55
6:WM:197:LEU:HD11	6:WN:156:HIS:HD2	1.71	0.55
6:WV:128:GLU:HG3	6:WW:126:PHE:CE2	2.42	0.55
6:BT:409:MET:HA	6:BT:409:MET:HE2	1.89	0.55
1:F:63:GLN:HE21	2:e:68:GLN:HE22	1.55	0.55
1:U:63:GLN:HE21	2:t:68:GLN:HE22	1.55	0.55
2:m:208:ARG:O	2:m:212:SER:OG	2.21	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:u:208:ARG:O	2:u:212:SER:OG	2.21	0.55
2:v:43:VAL:HG12	2:v:84:VAL:HG22	1.88	0.55
3:ZD:238:ARG:NH1	4:ZJ:397:ASN:HD22	2.03	0.55
4:ZT:319:ASN:OD1	4:ZT:320:PHE:N	2.39	0.55
4:Zb:105:ASN:O	4:Zb:106:ARG:HB2	2.05	0.55
3:AF:62:LEU:CD1	12:BB:84:LEU:HD11	2.37	0.55
3:AF:95:VAL:HG12	3:AF:216:GLN:HA	1.89	0.55
6:An:409:MET:HA	6:An:409:MET:HE2	1.89	0.55
6:UJ:51:TYR:OH	6:UJ:76:PRO:HB2	2.05	0.55
6:UJ:102:GLN:HG2	6:UJ:193:ALA:HB2	1.88	0.55
6:UK:126:PHE:O	6:UK:130:VAL:HB	2.05	0.55
6:UM:211:THR:HG23	6:UM:219:LEU:HD11	1.89	0.55
6:UN:102:GLN:HG2	6:UN:193:ALA:HB2	1.88	0.55
6:UN:126:PHE:CD1	6:UN:130:VAL:CG2	2.90	0.55
6:UO:211:THR:HG23	6:UO:219:LEU:HD11	1.89	0.55
6:WL:197:LEU:CD1	6:WM:175:SER:CB	2.72	0.55
6:BS:409:MET:HE2	6:BS:409:MET:HA	1.89	0.55
6:BU:409:MET:HE2	6:BU:409:MET:HA	1.89	0.55
6:BW:264:ALA:HB2	6:BW:389:VAL:HG13	1.89	0.55
2:o:93:TYR:OH	2:o:173:ARG:O	2.19	0.55
2:w:319:LEU:HD21	2:x:264:MET:CE	2.25	0.55
3:2:35:LYS:NZ	3:2:220:GLU:OE2	2.40	0.55
3:3:240:TYR:HE1	3:8:257:LEU:HD13	1.72	0.55
4:ZF:352:ASN:OD1	4:ZF:352:ASN:N	2.39	0.55
4:ZG:212:THR:HG21	4:ZG:246:ILE:HD13	1.87	0.55
4:ZK:233:ASN:ND2	4:ZK:237:ILE:O	2.38	0.55
4:ZN:107:ASN:ND2	4:ZN:138:THR:OG1	2.39	0.55
5:AC:14:GLN:HG3	5:AC:58:THR:HA	1.89	0.55
3:AG:185:GLU:HG3	3:AL:67:GLN:NE2	2.21	0.55
3:AJ:47:GLN:NE2	12:BE:76:LEU:CD1	2.69	0.55
3:AN:22:ILE:HG21	3:AN:233:MET:HG2	1.89	0.55
6:AT:264:ALA:HB2	6:AT:389:VAL:HG13	1.89	0.55
6:AX:264:ALA:HB2	6:AX:389:VAL:HG13	1.89	0.55
6:Ac:264:ALA:HB2	6:Ac:389:VAL:HG13	1.89	0.55
6:Ap:264:ALA:HB2	6:Ap:389:VAL:HG13	1.89	0.55
6:Ap:409:MET:HE2	6:Ap:409:MET:HA	1.89	0.55
6:AP:264:ALA:HB2	6:AP:389:VAL:HG13	1.89	0.55
10:A3:8:GLU:O	10:A3:11:ILE:HG13	2.05	0.55
6:WD:145:GLU:C	6:WD:147:LEU:H	2.15	0.55
12:BE:17:GLN:NE2	12:BE:111:SER:OG	2.39	0.55
6:BV:264:ALA:HB2	6:BV:389:VAL:HG13	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BV:409:MET:HE2	6:BV:409:MET:HA	1.89	0.55
6:BW:409:MET:HA	6:BW:409:MET:HE2	1.89	0.55
2:f:56:PRO:HG3	2:g:77:THR:HG21	1.87	0.55
3:ZE:208:LEU:O	3:ZE:210:GLY:N	2.40	0.55
4:ZF:18:ASP:OD1	4:ZK:2:SER:HB2	2.07	0.55
6:AO:409:MET:HE2	6:AO:409:MET:HA	1.89	0.55
6:AP:409:MET:HE2	6:AP:409:MET:HA	1.89	0.55
7:Ar:15:LYS:HE3	6:WC:121:PHE:CZ	2.40	0.55
9:Ay:80:THR:HB	9:Ay:83:ALA:HB2	1.88	0.55
10:A4:59:PHE:CD2	11:A9:118:MET:HE2	2.42	0.55
6:UI:126:PHE:CD1	6:UI:130:VAL:CG2	2.90	0.55
6:UK:126:PHE:CD1	6:UK:130:VAL:CG2	2.90	0.55
6:WB:193:ALA:HB1	6:WC:213:VAL:CG1	2.36	0.55
6:WP:197:LEU:HD12	6:WQ:175:SER:HB3	1.89	0.55
6:WP:197:LEU:HA	6:WQ:175:SER:OG	2.07	0.55
12:BE:3:LEU:HB3	12:BE:126:MET:HE3	1.88	0.55
2:a:43:VAL:HG12	2:a:84:VAL:HG22	1.88	0.55
2:k:43:VAL:HG12	2:k:84:VAL:HG22	1.89	0.55
3:O:195:THR:HG23	5:AD:152:PRO:CB	2.31	0.55
3:ZD:35:LYS:HB2	3:ZD:79:ARG:HD3	1.88	0.55
4:ZM:184:VAL:HG13	4:ZM:196:MET:HB2	1.88	0.55
4:ZN:93:PHE:HB3	4:ZN:333:VAL:HG13	1.89	0.55
4:ZN:248:THR:OG1	4:ZN:257:ALA:N	2.40	0.55
4:ZU:146:ALA:HB2	4:ZU:286:PRO:HD3	1.88	0.55
4:ZW:196:MET:HE1	4:ZW:214:ASP:HB2	1.88	0.55
5:AB:54:ARG:HH21	12:BC:22:ASN:HD21	1.55	0.55
5:AB:153:ASN:HD21	3:AM:194:GLU:HG2	1.71	0.55
5:AB:224:ALA:N	3:AG:253:MET:HE2	2.18	0.55
5:AD:243:ARG:NE	12:BE:113:GLN:HB2	2.21	0.55
5:AE:248:LEU:HB2	12:BE:117:GLU:HB3	1.89	0.55
3:AM:52:PRO:HD3	12:BC:80:PRO:HB3	1.89	0.55
6:Am:409:MET:HE2	6:Am:409:MET:HA	1.89	0.55
8:At:166:SER:O	8:At:167:ASN:C	2.49	0.55
10:Az:72:MET:O	10:Az:76:GLN:HG2	2.06	0.55
6:UP:211:THR:HG23	6:UP:219:LEU:HD11	1.89	0.55
6:WQ:172:PRO:HD2	6:WQ:204:GLY:O	2.07	0.55
6:BR:409:MET:HE2	6:BR:409:MET:HA	1.89	0.55
1:E:68:ASP:OD2	2:d:64:ASN:ND2	2.37	0.54
2:d:56:PRO:HG3	2:e:77:THR:HG21	1.87	0.54
2:o:43:VAL:HG12	2:o:84:VAL:HG22	1.89	0.54
2:w:43:VAL:HG12	2:w:84:VAL:HG22	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:163:GLY:HA2	3:ZC:111:THR:HG21	1.88	0.54
3:3:45:LEU:HD21	3:AG:215:TYR:CE2	2.42	0.54
3:4:51:GLN:NE2	5:AC:146:LEU:CD1	2.70	0.54
3:8:79:ARG:NH2	3:8:184:LEU:O	2.40	0.54
3:ZB:240:TYR:HE2	4:ZG:395:ILE:HG22	1.68	0.54
4:ZN:71:ARG:NH1	4:ZN:74:ASP:OD1	2.40	0.54
4:ZR:210:VAL:HB	4:ZR:228:THR:HG22	1.88	0.54
4:ZY:251:ILE:HG22	4:ZY:252:ASN:OD1	2.07	0.54
4:ZY:299:THR:HG22	4:ZY:314:GLN:HG3	1.89	0.54
3:AJ:126:GLY:O	3:AJ:127:GLN:HB2	2.05	0.54
6:AV:278:THR:CG2	10:A3:21:ALA:CB	2.74	0.54
6:AY:409:MET:HE2	6:AY:409:MET:HA	1.89	0.54
6:Aa:264:ALA:HB2	6:Aa:389:VAL:HG13	1.89	0.54
6:UP:103:GLN:CB	6:WW:182:PRO:HB3	2.33	0.54
6:WA:193:ALA:HB1	6:WB:213:VAL:HG11	1.89	0.54
6:WF:200:SER:O	6:WG:158:ALA:CB	2.55	0.54
6:WT:190:GLN:NE2	6:WU:216:SER:O	2.39	0.54
6:BX:409:MET:HE2	6:BX:409:MET:HA	1.89	0.54
2:i:188:GLN:HB3	2:j:101:GLN:NE2	2.23	0.54
2:l:43:VAL:HG12	2:l:84:VAL:HG22	1.88	0.54
2:z:53:THR:CG2	3:AL:203:GLU:HB3	2.37	0.54
5:AE:76:ARG:NH2	5:AE:105:ILE:O	2.35	0.54
5:AE:232:LYS:NZ	3:AK:260:LEU:O	2.40	0.54
3:AF:6:TRP:CZ2	12:BA:79:GLU:HG3	2.39	0.54
3:AI:3:SER:O	3:AI:7:ILE:HD12	2.06	0.54
9:Au:37:SER:HA	9:Au:123:MET:HE2	1.89	0.54
9:Au:160:GLN:O	6:WP:165:PHE:CB	2.54	0.54
6:UK:55:PHE:HB2	6:UK:58:LEU:HD11	1.88	0.54
6:UL:102:GLN:HG2	6:UL:193:ALA:HB2	1.88	0.54
6:UN:211:THR:HG23	6:UN:219:LEU:HD11	1.89	0.54
6:UP:126:PHE:CD1	6:UP:130:VAL:CG2	2.90	0.54
12:BA:113:GLN:O	12:BA:117:GLU:HG2	2.07	0.54
6:WH:186:LEU:HD22	6:WH:190:GLN:CD	2.32	0.54
1:Q:224:ARG:O	1:Q:228:ASN:ND2	2.36	0.54
2:f:188:GLN:HB3	2:g:101:GLN:NE2	2.23	0.54
2:y:273:CYS:CB	2:z:264:MET:O	2.40	0.54
4:ZH:285:LYS:O	4:ZH:306:ASN:ND2	2.40	0.54
4:ZI:190:GLN:OE1	4:ZI:192:ASN:ND2	2.35	0.54
4:ZK:331:ASP:HA	4:ZP:40:ALA:HB1	1.88	0.54
4:ZM:367:ASP:O	4:ZM:371:GLU:HG2	2.07	0.54
4:ZU:180:LYS:HZ1	4:ZU:274:ASN:C	2.15	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZY:16:ASN:HB2	4:ZY:39:PHE:HZ	1.72	0.54
3:AF:44:LEU:HD22	12:BA:78:TYR:CB	2.23	0.54
3:AF:258:THR:O	12:BF:117:GLU:HG3	2.07	0.54
6:AR:264:ALA:HB2	6:AR:389:VAL:HG13	1.89	0.54
6:AS:409:MET:HE2	6:AS:409:MET:HA	1.89	0.54
6:AU:264:ALA:HB2	6:AU:389:VAL:HG13	1.89	0.54
6:Aa:409:MET:HE2	6:Aa:409:MET:HA	1.89	0.54
6:Al:409:MET:HE2	6:Al:409:MET:HA	1.89	0.54
6:AQ:409:MET:HE2	6:AQ:409:MET:HA	1.89	0.54
11:A7:90:PRO:HB3	11:A7:99:THR:HB	1.88	0.54
11:A8:36:PRO:HB3	11:A8:96:ASP:HB2	1.89	0.54
6:UK:102:GLN:HG2	6:UK:193:ALA:HB2	1.88	0.54
6:UL:51:TYR:OH	6:UL:76:PRO:HB2	2.05	0.54
6:WA:200:SER:O	6:WB:158:ALA:HB2	2.08	0.54
6:WM:193:ALA:CB	6:WN:213:VAL:HG11	2.27	0.54
6:WO:197:LEU:HA	6:WP:175:SER:OG	2.07	0.54
6:WS:145:GLU:O	6:WS:147:LEU:N	2.39	0.54
6:WU:130:VAL:O	6:WU:134:ARG:HG3	2.07	0.54
2:n:43:VAL:HG12	2:n:84:VAL:HG22	1.88	0.54
2:x:319:LEU:HD21	2:y:264:MET:CE	2.25	0.54
3:4:50:ARG:HH12	3:AN:75:VAL:HG13	1.71	0.54
3:4:52:PRO:HB3	3:4:65:GLY:H	1.72	0.54
3:8:205:THR:OG1	3:8:208:LEU:HD23	2.08	0.54
3:ZC:254:LEU:O	3:ZC:258:THR:HG23	2.07	0.54
3:ZE:22:ILE:HG21	3:ZE:233:MET:HG3	1.89	0.54
4:ZT:83:PHE:HB2	4:ZT:95:SER:O	2.08	0.54
4:ZT:187:TYR:CE2	4:ZT:285:LYS:HB2	2.41	0.54
4:ZV:383:GLN:O	4:ZV:387:GLN:HG2	2.07	0.54
4:ZX:128:ILE:H	4:ZX:128:ILE:HD12	1.71	0.54
4:Zf:79:GLN:O	4:Zf:96:ARG:NH2	2.40	0.54
3:AF:147:LEU:HD11	3:AF:162:GLN:HA	1.88	0.54
3:AN:180:ASN:ND2	3:AN:197:SER:O	2.38	0.54
6:AS:264:ALA:HB2	6:AS:389:VAL:HG13	1.89	0.54
6:AY:264:ALA:HB2	6:AY:389:VAL:HG13	1.89	0.54
6:Ad:409:MET:HE2	6:Ad:409:MET:HA	1.89	0.54
6:Ak:409:MET:HE2	6:Ak:409:MET:HA	1.89	0.54
6:UL:55:PHE:HB2	6:UL:58:LEU:HD11	1.88	0.54
6:UL:211:THR:HG23	6:UL:219:LEU:HD11	1.89	0.54
6:WK:171:SER:HB3	6:WK:206:PRO:HG3	1.89	0.54
6:WV:128:GLU:HG3	6:WW:126:PHE:CD2	2.43	0.54
2:a:188:GLN:HB3	2:b:101:GLN:NE2	2.23	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:188:GLN:HB3	2:e:101:GLN:NE2	2.23	0.54
2:f:93:TYR:OH	2:f:173:ARG:O	2.19	0.54
2:k:188:GLN:HB3	2:l:101:GLN:NE2	2.23	0.54
2:n:188:GLN:HB3	2:o:101:GLN:NE2	2.23	0.54
2:z:43:VAL:HG12	2:z:84:VAL:HG22	1.88	0.54
4:ZH:42:MET:O	4:ZH:50:LEU:HB2	2.08	0.54
4:ZP:201:VAL:HG23	4:ZP:209:ALA:HB3	1.90	0.54
4:ZR:71:ARG:O	4:ZR:359:GLY:HA2	2.08	0.54
4:ZX:349:GLY:O	4:Zd:89:ASN:ND2	2.32	0.54
4:ZZ:337:THR:HG22	4:ZZ:339:ALA:H	1.72	0.54
4:Ze:322:ASN:HB3	4:Ze:340:SER:HA	1.89	0.54
5:AB:70:GLN:CD	3:AM:6:TRP:CD1	2.85	0.54
5:AB:228:GLU:OE1	3:AH:258:THR:CB	2.55	0.54
5:AC:26:LEU:HD22	3:AH:242:ILE:HG21	1.89	0.54
6:Af:409:MET:HA	6:Af:409:MET:HE2	1.89	0.54
8:At:236:ILE:O	8:At:240:CYS:N	2.36	0.54
9:Au:83:ALA:HB3	9:Au:84:PRO:HD3	1.89	0.54
10:A4:77:LYS:HE3	11:A0:13:GLN:HE22	1.73	0.54
2:d:53:THR:HG22	3:AK:209:ASN:HD21	1.63	0.54
2:h:80:GLN:CD	5:AE:154:THR:HG23	2.32	0.54
2:x:43:VAL:HG12	2:x:84:VAL:HG22	1.88	0.54
2:x:273:CYS:CB	2:y:264:MET:O	2.40	0.54
3:3:184:LEU:HB3	3:3:192:TYR:HB3	1.90	0.54
3:ZC:218:TYR:OH	4:ZN:53:LYS:HD3	2.08	0.54
4:ZF:102:LEU:O	4:ZK:322:ASN:ND2	2.41	0.54
4:ZS:65:THR:HG22	4:Zd:50:LEU:HD12	1.90	0.54
4:ZT:281:GLN:NE2	4:ZT:283:GLY:O	2.35	0.54
5:AA:173:ARG:HD3	3:AF:46:TYR:CE2	2.43	0.54
5:AC:248:LEU:O	12:BC:121:THR:OG1	2.19	0.54
3:AG:187:ILE:HD11	3:AG:193:ILE:HD13	1.90	0.54
3:AM:44:LEU:HD23	3:AM:73:ARG:HD2	1.88	0.54
6:Ae:264:ALA:HB2	6:Ae:389:VAL:HG13	1.89	0.54
7:Aq:36:SER:HB3	7:Ar:44:ILE:HG23	1.89	0.54
7:Ar:54:LYS:HZ3	7:As:48:THR:HG21	1.72	0.54
8:At:38:ILE:HB	8:At:43:LYS:HE2	1.90	0.54
9:Ay:162:PRO:HG3	6:WH:167:ARG:HH22	1.72	0.54
6:UJ:260:THR:HG23	6:UJ:268:LEU:HD11	1.89	0.54
6:UK:211:THR:HG23	6:UK:219:LEU:HD11	1.89	0.54
6:UM:103:GLN:NE2	6:WQ:182:PRO:CB	2.71	0.54
6:UM:126:PHE:CD1	6:UM:130:VAL:CG2	2.90	0.54
6:BX:264:ALA:HB2	6:BX:389:VAL:HG13	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:188:GLN:HB3	2:d:101:GLN:NE2	2.23	0.54
2:e:184:THR:HG23	2:e:222:GLN:HG3	1.90	0.54
2:g:184:THR:HG23	2:g:222:GLN:HG3	1.90	0.54
2:h:184:THR:HG23	2:h:222:GLN:HG3	1.90	0.54
2:i:184:THR:HG23	2:i:222:GLN:HG3	1.90	0.54
2:w:184:THR:HG23	2:w:222:GLN:HG3	1.90	0.54
2:x:184:THR:HG23	2:x:222:GLN:HG3	1.90	0.54
2:y:184:THR:HG23	2:y:222:GLN:HG3	1.90	0.54
2:z:184:THR:HG23	2:z:222:GLN:HG3	1.90	0.54
3:1:78:GLU:HG2	3:AK:121:GLN:HE22	1.70	0.54
3:4:54:ALA:HB1	5:AC:136:THR:HG21	1.90	0.54
3:4:78:GLU:OE1	3:AN:121:GLN:NE2	2.41	0.54
3:9:248:SER:HB2	3:ZE:260:LEU:HD22	1.90	0.54
4:ZT:158:LEU:HB2	4:ZT:268:GLN:HG3	1.89	0.54
4:Zc:93:PHE:HD1	4:Zc:114:MET:HE1	1.71	0.54
4:Ze:397:ASN:O	4:Ze:398:THR:C	2.48	0.54
4:Zf:111:MET:HA	4:Zf:111:MET:HE3	1.90	0.54
4:Zh:294:ILE:O	4:Zh:358:ASN:ND2	2.40	0.54
5:AC:220:MET:HE3	3:AH:245:LYS:CD	2.37	0.54
6:AR:409:MET:HA	6:AR:409:MET:HE2	1.89	0.54
6:AT:409:MET:HE2	6:AT:409:MET:HA	1.89	0.54
10:A4:77:LYS:HE3	11:A0:13:GLN:NE2	2.23	0.54
6:UK:98:LEU:CD1	6:UK:146:THR:HG1	2.20	0.54
6:UM:55:PHE:HB2	6:UM:58:LEU:HD11	1.88	0.54
6:WF:212:LEU:HB3	6:WF:221:THR:HG23	1.90	0.54
6:WS:118:GLN:O	6:WS:119:GLU:C	2.49	0.54
6:WS:186:LEU:HA	6:WS:190:GLN:OE1	2.08	0.54
6:WV:113:PHE:O	6:WV:116:LEU:HB3	2.07	0.54
6:BU:264:ALA:HB2	6:BU:389:VAL:HG13	1.89	0.54
2:a:184:THR:HG23	2:a:222:GLN:HG3	1.90	0.54
2:h:188:GLN:HB3	2:i:101:GLN:NE2	2.23	0.54
2:j:184:THR:HG23	2:j:222:GLN:HG3	1.90	0.54
2:l:188:GLN:HB3	2:m:101:GLN:NE2	2.23	0.54
2:m:43:VAL:HG12	2:m:84:VAL:HG22	1.88	0.54
2:u:184:THR:HG23	2:u:222:GLN:HG3	1.90	0.54
2:y:188:GLN:HB3	2:z:101:GLN:NE2	2.22	0.54
3:2:58:GLU:HG2	5:AA:160:ARG:HH11	1.73	0.54
3:ZC:151:ILE:HG12	3:ZC:157:VAL:HG22	1.90	0.54
4:ZM:150:THR:OG1	4:ZM:282:ASN:ND2	2.39	0.54
4:ZO:288:ASP:OD1	4:ZO:289:LEU:N	2.41	0.54
4:ZX:331:ASP:O	4:ZX:333:VAL:HG23	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Zb:83:PHE:HB2	4:Zb:95:SER:O	2.08	0.54
4:Zf:109:VAL:HG12	4:Zf:115:GLN:HA	1.88	0.54
5:AC:216:ALA:O	5:AC:220:MET:HG3	2.08	0.54
3:AG:19:MET:HE1	3:AG:233:MET:HG2	1.90	0.54
6:AV:264:ALA:HB2	6:AV:389:VAL:HG13	1.89	0.54
6:AX:372:ILE:HB	10:A3:11:ILE:HG22	1.88	0.54
6:Af:264:ALA:HB2	6:Af:389:VAL:HG13	1.89	0.54
6:Ag:282:TYR:HB3	6:Ah:292:THR:HG21	1.90	0.54
6:Ai:303:GLN:HE22	6:BK:319:GLN:CB	2.18	0.54
6:Aj:409:MET:HE2	6:Aj:409:MET:HA	1.89	0.54
6:Am:264:ALA:HB2	6:Am:389:VAL:HG13	1.89	0.54
7:As:51:PHE:HB3	9:Ax:205:MET:HE3	1.90	0.54
6:WE:196:HIS:HB3	6:WF:211:THR:HG21	1.90	0.54
6:WN:145:GLU:C	6:WN:147:LEU:H	2.15	0.54
2:d:184:THR:HG23	2:d:222:GLN:HG3	1.90	0.54
2:f:184:THR:HG23	2:f:222:GLN:HG3	1.90	0.54
2:g:188:GLN:HB3	2:h:101:GLN:NE2	2.23	0.54
2:k:184:THR:HG23	2:k:222:GLN:HG3	1.90	0.54
2:p:188:GLN:HB3	2:q:101:GLN:NE2	2.23	0.54
2:t:184:THR:HG23	2:t:222:GLN:HG3	1.90	0.54
2:u:93:TYR:OH	2:u:173:ARG:O	2.19	0.54
2:v:184:THR:HG23	2:v:222:GLN:HG3	1.90	0.54
2:v:188:GLN:HB3	2:w:101:GLN:NE2	2.23	0.54
2:y:43:VAL:HG12	2:y:84:VAL:HG22	1.88	0.54
3:4:19:MET:HB2	3:4:236:VAL:HG11	1.90	0.54
3:8:35:LYS:NZ	3:8:220:GLU:OE2	2.38	0.54
3:8:227:ALA:HB1	4:ZJ:399:LEU:HD21	1.89	0.54
4:ZF:288:ASP:OD2	4:ZF:288:ASP:N	2.40	0.54
4:ZM:81:GLY:HA3	4:ZM:317:LEU:HD23	1.89	0.54
4:ZZ:14:ALA:HB2	4:ZZ:382:TYR:HE2	1.73	0.54
5:AB:243:ARG:O	5:AB:246:GLN:HG2	2.08	0.54
5:AC:115:ILE:HG22	5:AC:116:GLN:HG3	1.90	0.54
3:AL:2:ILE:CG2	3:AL:254:LEU:HD11	2.37	0.54
6:Af:282:TYR:HB3	6:Ag:292:THR:HG21	1.90	0.54
6:Ah:282:TYR:HB3	6:Ai:292:THR:HG21	1.90	0.54
9:Au:126:ALA:O	9:Au:127:LEU:C	2.48	0.54
9:Av:158:PRO:CB	6:WT:166:VAL:HG21	2.38	0.54
10:A5:4:ILE:HD11	6:BS:374:HIS:HB2	1.90	0.54
6:UL:88:VAL:HB	6:UL:89:PRO:HD2	1.90	0.54
6:UL:167:ARG:O	6:UL:168:GLU:C	2.49	0.54
6:WD:186:LEU:HD22	6:WD:190:GLN:CD	2.32	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WF:193:ALA:HB1	6:WG:213:VAL:CG1	2.38	0.54
6:WI:145:GLU:O	6:WI:147:LEU:N	2.41	0.54
6:WK:196:HIS:CG	6:WL:211:THR:HG21	2.42	0.54
6:WT:145:GLU:O	6:WT:147:LEU:N	2.40	0.54
6:WU:114:GLU:O	6:WU:117:ASP:N	2.41	0.54
6:BR:264:ALA:HB2	6:BR:389:VAL:HG13	1.89	0.54
2:b:184:THR:HG23	2:b:222:GLN:HG3	1.90	0.54
2:l:184:THR:HG23	2:l:222:GLN:HG3	1.90	0.54
2:q:188:GLN:HB3	2:r:101:GLN:NE2	2.23	0.54
2:q:208:ARG:O	2:q:212:SER:OG	2.21	0.54
2:s:188:GLN:HB3	2:t:101:GLN:NE2	2.23	0.54
2:t:208:ARG:O	2:t:212:SER:OG	2.21	0.54
3:ZA:240:TYR:OH	4:ZF:399:LEU:HD22	2.07	0.54
3:ZD:218:TYR:OH	4:ZO:53:LYS:CD	2.47	0.54
4:ZG:97:ASN:OD1	4:ZG:98:GLY:N	2.40	0.54
4:ZP:93:PHE:HB3	4:ZP:333:VAL:HG13	1.90	0.54
5:AA:151:PRO:HB2	5:AA:154:THR:HG23	1.90	0.54
5:AB:60:SER:HB2	3:AG:65:GLY:O	2.08	0.54
5:AD:200:ARG:HH12	3:AJ:187:ILE:HB	1.73	0.54
5:AD:243:ARG:HE	12:BE:113:GLN:HB2	1.73	0.54
5:AE:87:TRP:HB3	5:AE:99:TYR:HB3	1.90	0.54
3:AG:77:THR:HG23	3:AL:66:LEU:HB2	1.89	0.54
3:AG:178:PHE:CE1	3:AG:201:PRO:HB3	2.42	0.54
3:AI:64:SER:OG	6:BO:328:ILE:HG21	2.08	0.54
3:AJ:187:ILE:HG13	3:AJ:191:LEU:HB2	1.90	0.54
6:AS:292:THR:HG21	6:BX:282:TYR:HB3	1.90	0.54
6:Ai:282:TYR:HB3	6:Aj:292:THR:HG21	1.90	0.54
6:Aj:264:ALA:HB2	6:Aj:389:VAL:HG13	1.89	0.54
6:AO:264:ALA:HB2	6:AO:389:VAL:HG13	1.89	0.54
10:A3:76:GLN:NE2	12:BD:132:LEU:O	2.41	0.54
6:UK:88:VAL:HB	6:UK:89:PRO:HD2	1.90	0.54
6:WQ:124:SER:O	6:WQ:125:GLN:C	2.50	0.54
12:BF:85:ALA:HB1	12:BF:89:GLY:HA2	1.89	0.54
1:E:202:ASP:OD1	1:G:36:THR:HB	2.08	0.53
1:X:224:ARG:O	1:X:228:ASN:ND2	2.36	0.53
2:c:184:THR:HG23	2:c:222:GLN:HG3	1.90	0.53
2:d:208:ARG:O	2:d:212:SER:OG	2.21	0.53
2:e:188:GLN:HB3	2:f:101:GLN:NE2	2.23	0.53
2:n:184:THR:HG23	2:n:222:GLN:HG3	1.90	0.53
2:o:184:THR:HG23	2:o:222:GLN:HG3	1.90	0.53
2:x:188:GLN:HB3	2:y:101:GLN:NE2	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:y:319:LEU:HD21	2:z:264:MET:CE	2.25	0.53
3:ZB:40:VAL:O	3:ZB:75:VAL:N	2.41	0.53
3:ZC:240:TYR:CE2	4:ZH:395:ILE:HG22	2.42	0.53
3:ZE:37:GLN:NE2	4:ZJ:43:PHE:HE1	2.06	0.53
4:ZG:109:VAL:HG12	4:ZG:115:GLN:HA	1.91	0.53
4:ZV:128:ILE:HD12	4:ZV:314:GLN:HB2	1.90	0.53
4:ZY:150:THR:OG1	4:ZY:282:ASN:ND2	2.35	0.53
5:AA:58:THR:CG2	3:AF:50:ARG:NH2	2.71	0.53
5:AB:175:ASP:O	3:AG:45:LEU:HD12	2.08	0.53
5:AD:87:TRP:HB3	5:AD:99:TYR:HB3	1.90	0.53
6:Ad:282:TYR:HB3	6:Ae:292:THR:HG21	1.90	0.53
6:Ae:282:TYR:HB3	6:Af:292:THR:HG21	1.90	0.53
6:Af:365:ASN:ND2	11:A8:65:LEU:HD13	2.23	0.53
6:Ai:409:MET:HE2	6:Ai:409:MET:HA	1.89	0.53
6:Ak:264:ALA:HB2	6:Ak:389:VAL:HG13	1.89	0.53
6:Al:295:SER:HB2	11:A7:65:LEU:HB3	1.90	0.53
8:At:186:LEU:HD21	8:At:236:ILE:HG22	1.90	0.53
8:At:188:LEU:O	8:At:190:VAL:N	2.39	0.53
1:O:202:ASP:OD1	1:Q:36:THR:HB	2.08	0.53
1:P:202:ASP:OD1	1:R:36:THR:HB	2.08	0.53
1:X:202:ASP:OD1	1:Z:36:THR:HB	2.08	0.53
2:g:274:ALA:HB1	2:g:319:LEU:HG	1.90	0.53
2:m:184:THR:HG23	2:m:222:GLN:HG3	1.90	0.53
2:p:184:THR:HG23	2:p:222:GLN:HG3	1.90	0.53
2:q:184:THR:HG23	2:q:222:GLN:HG3	1.90	0.53
2:s:184:THR:HG23	2:s:222:GLN:HG3	1.90	0.53
3:7:256:LYS:HD2	3:7:256:LYS:O	2.08	0.53
3:ZA:97:ILE:HD12	3:ZA:116:ARG:HG3	1.91	0.53
3:ZB:98:LYS:HE3	4:ZM:44:ALA:CB	2.38	0.53
4:ZJ:231:LYS:NZ	4:ZJ:239:GLU:OE1	2.38	0.53
4:ZL:18:ASP:OD1	4:ZQ:2:SER:N	2.42	0.53
4:ZP:87:ASP:OD1	4:ZP:87:ASP:N	2.35	0.53
4:ZW:382:TYR:CE1	4:Zb:395:ILE:HG23	2.43	0.53
4:ZY:188:ASP:OD1	4:ZY:194:HIS:NE2	2.39	0.53
4:Zc:29:THR:HG23	4:Zh:39:PHE:HB2	1.89	0.53
4:Zd:33:LYS:NZ	4:Zd:362:GLU:OE1	2.39	0.53
3:AI:76:ALA:HA	3:AN:66:LEU:HB3	1.90	0.53
3:AN:43:ASP:N	3:AN:43:ASP:OD1	2.41	0.53
6:AU:409:MET:HA	6:AU:409:MET:HE2	1.89	0.53
6:Ah:264:ALA:HB2	6:Ah:389:VAL:HG13	1.89	0.53
6:Ao:264:ALA:HB2	6:Ao:389:VAL:HG13	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Au:211:MET:SD	9:Av:211:MET:HE3	2.49	0.53
9:Ax:139:LEU:HG	9:Ax:170:LEU:HD21	1.90	0.53
9:Ax:163:GLU:N	9:Ax:163:GLU:OE2	2.39	0.53
6:UN:80:ALA:HB3	6:UN:83:SER:HB3	1.90	0.53
6:WP:145:GLU:HG2	6:WP:152:SER:HA	1.91	0.53
6:BT:282:TYR:HB3	6:BU:292:THR:HG21	1.90	0.53
6:BV:282:TYR:HB3	6:BW:292:THR:HG21	1.91	0.53
1:B:202:ASP:OD1	1:D:36:THR:HB	2.08	0.53
1:I:202:ASP:OD1	1:K:36:THR:HB	2.08	0.53
1:N:202:ASP:OD1	1:P:36:THR:HB	2.08	0.53
1:Q:202:ASP:OD1	1:S:36:THR:HB	2.08	0.53
1:V:202:ASP:OD1	1:X:36:THR:HB	2.08	0.53
1:W:202:ASP:OD1	1:Y:36:THR:HB	2.08	0.53
2:d:273:CYS:CB	2:e:264:MET:O	2.40	0.53
2:f:274:ALA:HB1	2:f:319:LEU:HG	1.90	0.53
2:m:188:GLN:HB3	2:n:101:GLN:NE2	2.23	0.53
2:r:184:THR:HG23	2:r:222:GLN:HG3	1.90	0.53
2:r:188:GLN:HB3	2:s:101:GLN:NE2	2.23	0.53
3:ZD:42:GLU:OE2	3:ZD:73:ARG:NE	2.35	0.53
4:ZS:349:GLY:O	4:ZY:89:ASN:ND2	2.42	0.53
4:ZU:165:PRO:HG2	4:ZU:201:VAL:HG13	1.89	0.53
4:Zd:281:GLN:NE2	4:Zd:283:GLY:O	2.39	0.53
4:Ze:137:ILE:HG21	4:Ze:300:VAL:HG21	1.90	0.53
5:AC:18:GLN:NE2	5:AC:41:LEU:HG	2.22	0.53
5:AE:16:LEU:CD2	3:AJ:253:MET:HE3	2.37	0.53
3:AH:91:ASN:HB3	3:AH:94:ASP:OD2	2.09	0.53
6:Ac:282:TYR:HB3	6:Ad:292:THR:HG21	1.90	0.53
6:Ac:409:MET:HA	6:Ac:409:MET:HE2	1.89	0.53
6:Ad:264:ALA:HB2	6:Ad:389:VAL:HG13	1.89	0.53
6:Ai:264:ALA:HB2	6:Ai:389:VAL:HG13	1.89	0.53
6:Aj:282:TYR:HB3	6:Ak:292:THR:HG21	1.90	0.53
6:An:264:ALA:HB2	6:An:389:VAL:HG13	1.89	0.53
9:Au:75:ARG:HD2	9:Au:84:PRO:HD2	1.88	0.53
9:Ax:59:LEU:HD11	10:A3:102:MET:HE1	1.90	0.53
6:WE:200:SER:O	6:WF:158:ALA:HB2	2.09	0.53
1:F:202:ASP:OD1	1:H:36:THR:HB	2.08	0.53
2:a:93:TYR:OH	2:a:173:ARG:O	2.19	0.53
2:b:188:GLN:HB3	2:c:101:GLN:NE2	2.23	0.53
2:e:274:ALA:HB1	2:e:319:LEU:HG	1.90	0.53
2:p:93:TYR:OH	2:p:173:ARG:O	2.19	0.53
3:l:19:MET:HB2	3:l:236:VAL:HG11	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6:52:PRO:HB3	3:6:65:GLY:H	1.74	0.53
3:6:57:SER:HA	5:AE:140:ASP:CG	2.25	0.53
3:7:49:ILE:HG21	3:7:66:LEU:HD23	1.91	0.53
3:9:22:ILE:HG21	3:9:233:MET:HG3	1.91	0.53
4:ZO:156:ILE:HG13	4:ZO:276:ILE:HA	1.91	0.53
4:ZU:170:PHE:HE2	4:ZU:223:PRO:HG2	1.73	0.53
4:Za:14:ALA:HB2	4:Za:382:TYR:HE2	1.72	0.53
6:AS:282:TYR:HB3	6:AT:292:THR:HG21	1.90	0.53
6:AX:278:THR:CG2	10:A3:7:ILE:CG2	2.80	0.53
6:Ae:372:ILE:CG2	10:A2:4:ILE:HG12	2.37	0.53
6:Ag:409:MET:HE2	6:Ag:409:MET:HA	1.89	0.53
9:Aw:160:GLN:HE22	6:WA:166:VAL:HG11	1.74	0.53
9:Ay:148:ALA:CA	6:WI:164:LEU:HD22	2.39	0.53
11:A0:103:ASP:OD1	12:BF:112:TYR:OH	2.26	0.53
6:UO:80:ALA:HB3	6:UO:83:SER:HB3	1.90	0.53
6:UP:80:ALA:HB3	6:UP:83:SER:HB3	1.91	0.53
6:UP:88:VAL:HB	6:UP:89:PRO:HD2	1.90	0.53
6:WD:200:SER:OG	6:WE:175:SER:CB	2.47	0.53
6:WJ:190:GLN:NE2	6:WK:216:SER:O	2.41	0.53
6:WS:145:GLU:HG2	6:WS:152:SER:HA	1.91	0.53
6:WT:145:GLU:HG2	6:WT:152:SER:HA	1.91	0.53
6:WU:196:HIS:HB3	6:WV:211:THR:HG21	1.89	0.53
1:H:202:ASP:OD1	1:J:36:THR:HB	2.08	0.53
1:U:202:ASP:OD1	1:W:36:THR:HB	2.08	0.53
2:h:274:ALA:HB1	2:h:319:LEU:HG	1.90	0.53
2:i:274:ALA:HB1	2:i:319:LEU:HG	1.90	0.53
2:j:273:CYS:CB	2:k:264:MET:O	2.40	0.53
2:r:208:ARG:O	2:r:212:SER:OG	2.21	0.53
3:7:57:SER:OG	3:AF:154:ASP:OD1	2.27	0.53
3:ZB:120:PHE:HB3	3:ZB:128:LEU:HD22	1.90	0.53
4:ZJ:151:THR:OG1	4:ZJ:282:ASN:ND2	2.42	0.53
4:ZP:74:ASP:O	4:ZP:359:GLY:N	2.40	0.53
4:ZX:71:ARG:NH1	4:ZX:100:PHE:O	2.36	0.53
4:Zf:397:ASN:O	4:Zf:398:THR:C	2.51	0.53
5:AB:132:GLY:HA3	3:AG:179:MET:SD	2.49	0.53
5:AC:89:VAL:HG12	5:AC:121:ILE:HB	1.91	0.53
5:AD:76:ARG:HB3	5:AD:79:ASP:OD2	2.09	0.53
5:AE:248:LEU:HD21	11:A0:106:ARG:HG2	1.91	0.53
6:AU:282:TYR:HB3	6:AV:292:THR:HG21	1.90	0.53
6:AW:409:MET:HE2	6:AW:409:MET:HA	1.89	0.53
6:Ah:409:MET:HE2	6:Ah:409:MET:HA	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AQ:282:TYR:HB3	6:BR:292:THR:HG21	1.90	0.53
7:As:9:MET:HE1	9:Ay:188:THR:HA	1.90	0.53
7:As:42:THR:HG22	7:As:44:ILE:HG12	1.91	0.53
6:UO:126:PHE:CD1	6:UO:130:VAL:CG2	2.90	0.53
6:WD:168:GLU:CD	6:WD:170:LYS:NZ	2.67	0.53
6:WO:145:GLU:HG2	6:WO:152:SER:HA	1.91	0.53
6:WQ:212:LEU:HB3	6:WQ:221:THR:HG23	1.90	0.53
6:BS:282:TYR:HB3	6:BT:292:THR:HG21	1.90	0.53
1:A:202:ASP:OD1	1:C:36:THR:HB	2.08	0.53
1:D:202:ASP:OD1	1:F:36:THR:HB	2.08	0.53
3:0:116:ARG:NH1	3:0:220:GLU:OE2	2.41	0.53
3:3:33:GLY:N	3:3:220:GLU:O	2.40	0.53
3:5:257:LEU:HG	3:AI:230:LEU:CD1	2.34	0.53
3:9:231:VAL:HG11	4:ZF:7:VAL:HG22	1.90	0.53
4:ZK:146:ALA:HB2	4:ZK:286:PRO:HD3	1.91	0.53
4:ZO:148:SER:HA	4:ZO:187:TYR:O	2.08	0.53
4:ZP:112:GLN:HG2	4:ZP:331:ASP:HB3	1.89	0.53
4:ZU:293:GLN:NE2	4:ZU:303:ASN:HD21	2.07	0.53
4:ZX:319:ASN:OD1	4:ZX:320:PHE:N	2.42	0.53
5:AA:202:MET:HE2	3:AL:73:ARG:NH2	2.21	0.53
5:AE:250:MET:HE2	12:BE:121:THR:HA	1.90	0.53
3:AG:76:ALA:HA	3:AL:66:LEU:HB3	1.89	0.53
6:AR:282:TYR:HB3	6:Ac:292:THR:HG21	1.90	0.53
6:AV:409:MET:HE2	6:AV:409:MET:HA	1.89	0.53
6:Ak:282:TYR:HB3	6:Al:292:THR:HG21	1.90	0.53
6:WO:149:PRO:HB3	6:WO:184:ARG:HB3	1.90	0.53
6:WQ:145:GLU:HG2	6:WQ:152:SER:HA	1.91	0.53
6:WU:145:GLU:HG2	6:WU:152:SER:HA	1.91	0.53
6:WV:145:GLU:HG2	6:WV:152:SER:HA	1.91	0.53
2:a:101:GLN:NE2	2:z:188:GLN:HB3	2.23	0.53
2:a:264:MET:CE	2:z:319:LEU:HD21	2.25	0.53
2:j:188:GLN:HB3	2:k:101:GLN:NE2	2.23	0.53
2:t:188:GLN:HB3	2:u:101:GLN:NE2	2.23	0.53
2:t:273:CYS:CB	2:u:264:MET:O	2.40	0.53
2:u:188:GLN:HB3	2:v:101:GLN:NE2	2.23	0.53
3:6:197:SER:HB3	3:ZB:53:GLY:HA2	1.88	0.53
3:ZA:227:ALA:HB1	4:ZL:399:LEU:CD2	2.39	0.53
4:ZO:201:VAL:HG23	4:ZO:209:ALA:HB3	1.91	0.53
4:ZO:374:ASN:O	4:ZO:377:VAL:N	2.42	0.53
4:ZQ:112:GLN:NE2	4:ZQ:331:ASP:HB3	2.24	0.53
4:ZT:196:MET:HA	4:ZT:196:MET:HE3	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZY:106:ARG:HH12	4:ZY:141:ASN:HB3	1.74	0.53
4:Zc:84:ARG:HD2	4:Zc:345:LEU:HD21	1.90	0.53
6:Ad:372:ILE:HG22	10:A2:11:ILE:HG21	1.91	0.53
6:Al:264:ALA:HB2	6:Al:389:VAL:HG13	1.89	0.53
6:Al:282:TYR:HB3	6:Am:292:THR:HG21	1.90	0.53
7:Aq:77:VAL:HG21	9:Aw:225:LEU:HD11	1.91	0.53
9:Au:207:LEU:HD23	9:Au:209:MET:HE1	1.91	0.53
10:A4:10:VAL:HG12	6:BX:372:ILE:CD1	2.39	0.53
6:Ul:159:MET:N	6:Ul:159:MET:SD	2.82	0.53
6:UK:80:ALA:HB3	6:UK:83:SER:HB3	1.91	0.53
6:UN:88:VAL:HB	6:UN:89:PRO:HD2	1.90	0.53
6:WR:145:GLU:HG2	6:WR:152:SER:HA	1.91	0.53
6:WU:160:PRO:HG2	6:WU:170:LYS:O	2.08	0.53
1:A:36:THR:HB	1:Y:202:ASP:OD1	2.08	0.53
1:C:202:ASP:OD1	1:E:36:THR:HB	2.08	0.53
1:M:202:ASP:OD1	1:O:36:THR:HB	2.08	0.53
2:d:274:ALA:HB1	2:d:319:LEU:HG	1.90	0.53
2:o:188:GLN:HB3	2:p:101:GLN:NE2	2.23	0.53
3:2:55:GLN:O	5:AA:138:ALA:HB2	2.08	0.53
3:3:145:ASN:O	3:3:161:GLN:NE2	2.42	0.53
3:4:256:LYS:HG2	3:AN:241:GLU:HG2	1.90	0.53
3:6:175:LEU:HD21	3:6:214:LEU:HD21	1.89	0.53
3:ZE:122:VAL:HG13	3:ZE:126:GLY:HA2	1.91	0.53
4:ZQ:184:VAL:HG13	4:ZQ:196:MET:HB2	1.90	0.53
4:ZU:156:ILE:HG13	4:ZU:276:ILE:HA	1.91	0.53
4:ZV:3:PHE:O	4:ZV:7:VAL:HG23	2.09	0.53
4:ZV:112:GLN:HG2	4:ZV:331:ASP:HB3	1.89	0.53
4:ZW:112:GLN:OE1	4:ZW:112:GLN:N	2.42	0.53
4:Zf:139:ILE:HA	4:Zf:312:LEU:HD13	1.91	0.53
5:AA:76:ARG:HB3	5:AA:79:ASP:OD1	2.09	0.53
5:AB:137:ILE:HG12	5:AB:143:ILE:HG12	1.91	0.53
3:AI:188:GLY:O	3:AI:190:ASN:N	2.40	0.53
3:AJ:257:LEU:HD21	12:BE:98:VAL:HG12	1.91	0.53
6:AR:292:THR:HG21	6:Aa:282:TYR:HB3	1.90	0.53
6:AU:293:LEU:HD21	6:AU:364:SER:HB3	1.91	0.53
6:AX:372:ILE:CG2	10:A3:11:ILE:CG2	2.87	0.53
6:AX:409:MET:HA	6:AX:409:MET:HE2	1.89	0.53
6:Ag:264:ALA:HB2	6:Ag:389:VAL:HG13	1.89	0.53
7:Aq:62:ILE:O	7:Aq:66:GLY:N	2.39	0.53
8:At:101:PHE:CE2	9:Au:223:LEU:HD11	2.43	0.53
8:At:252:ALA:CB	6:WK:163:SER:O	2.57	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UL:80:ALA:HB3	6:UL:83:SER:HB3	1.91	0.53
6:UM:80:ALA:HB3	6:UM:83:SER:HB3	1.91	0.53
12:BB:23:VAL:HG21	12:BB:47:VAL:HG13	1.91	0.53
6:WV:193:ALA:HB1	6:WW:213:VAL:HG11	1.91	0.53
1:J:202:ASP:OD1	1:L:36:THR:HB	2.08	0.53
1:L:202:ASP:OD1	1:N:36:THR:HB	2.08	0.53
1:R:202:ASP:OD1	1:T:36:THR:HB	2.08	0.53
3:ZC:137:GLN:HA	3:ZC:138:PRO:C	2.34	0.53
4:ZG:217:ASP:HB3	4:ZG:220:ALA:HB2	1.90	0.53
4:ZG:382:TYR:HE1	4:ZL:399:LEU:HD11	1.73	0.53
4:ZK:270:ASN:HD22	4:ZQ:192:ASN:HA	1.73	0.53
4:ZP:396:LEU:O	4:ZP:400:VAL:HG23	2.08	0.53
4:ZS:367:ASP:O	4:ZS:371:GLU:HG2	2.09	0.53
4:ZU:178:TYR:HA	4:ZU:201:VAL:HG22	1.89	0.53
4:ZX:42:MET:HG2	4:ZX:53:LYS:HE3	1.91	0.53
4:Ze:99:GLN:HE22	4:Ze:111:MET:HG2	1.73	0.53
5:AA:107:VAL:HG12	5:AA:113:LEU:HD23	1.91	0.53
5:AA:151:PRO:C	5:AA:153:ASN:H	2.17	0.53
5:AD:220:MET:SD	3:AI:246:ALA:HA	2.49	0.53
5:AE:76:ARG:NH1	5:AE:79:ASP:OD1	2.40	0.53
5:AE:180:ARG:HG3	5:AE:180:ARG:NH1	2.21	0.53
6:AS:293:LEU:HD21	6:AS:364:SER:HB3	1.91	0.53
6:AT:282:TYR:HB3	6:AU:292:THR:HG21	1.90	0.53
6:AZ:409:MET:HE2	6:AZ:409:MET:HA	1.89	0.53
6:Am:282:TYR:HB3	6:An:292:THR:HG21	1.90	0.53
8:At:54:ILE:HD11	9:Ay:153:LEU:HB3	1.91	0.53
8:At:127:ARG:O	8:At:131:MET:HE3	2.08	0.53
9:Aw:194:LEU:HD11	9:Ax:217:ILE:HA	1.91	0.53
11:A6:50:LYS:O	11:A6:54:VAL:HG22	2.09	0.53
6:WO:200:SER:O	6:WP:158:ALA:CB	2.56	0.53
6:WW:145:GLU:HG2	6:WW:152:SER:HA	1.91	0.53
12:BE:57:GLN:O	12:BE:59:THR:N	2.40	0.53
1:U:224:ARG:O	1:U:228:ASN:ND2	2.36	0.53
2:a:91:ALA:HB2	2:a:105:VAL:HG12	1.91	0.53
2:b:91:ALA:HB2	2:b:105:VAL:HG12	1.91	0.53
2:c:91:ALA:HB2	2:c:105:VAL:HG12	1.91	0.53
2:d:91:ALA:HB2	2:d:105:VAL:HG12	1.91	0.53
2:e:91:ALA:HB2	2:e:105:VAL:HG12	1.91	0.53
2:s:208:ARG:O	2:s:212:SER:OG	2.21	0.53
3:1:115:THR:HB	3:1:191:LEU:HD23	1.91	0.53
3:5:174:ASN:ND2	3:5:203:GLU:OE2	2.36	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6:153:ARG:HH12	3:6:213:LEU:HD22	1.74	0.53
3:ZC:19:MET:CE	4:ZH:391:THR:CG2	2.87	0.53
4:Za:287:GLY:N	4:Za:306:ASN:HD22	2.07	0.53
4:Ze:165:PRO:HG2	4:Ze:201:VAL:HG13	1.91	0.53
5:AD:49:LEU:HB2	11:A9:90:PRO:HG2	1.91	0.53
3:AF:19:MET:HE1	3:AF:233:MET:HE2	1.90	0.53
6:AR:293:LEU:HD21	6:AR:364:SER:HB3	1.91	0.53
6:AZ:293:LEU:HD21	6:AZ:364:SER:HB3	1.91	0.53
6:Ac:293:LEU:HD21	6:Ac:364:SER:HB3	1.91	0.53
6:Ae:293:LEU:HD21	6:Ae:364:SER:HB3	1.91	0.53
6:Ae:409:MET:HE2	6:Ae:409:MET:HA	1.89	0.53
8:At:249:ASN:HB2	6:WK:162:PRO:CB	2.35	0.53
6:UL:127:SER:O	6:UL:131:ASN:CG	2.52	0.53
6:UN:127:SER:O	6:UN:131:ASN:CG	2.53	0.53
6:WN:145:GLU:HG2	6:WN:152:SER:HA	1.90	0.53
6:BW:282:TYR:HB3	6:BX:292:THR:HG21	1.90	0.53
6:BX:293:LEU:HD21	6:BX:364:SER:HB3	1.91	0.53
1:B:36:THR:HB	1:Z:202:ASP:OD1	2.08	0.52
1:T:202:ASP:OD1	1:V:36:THR:HB	2.08	0.52
2:f:91:ALA:HB2	2:f:105:VAL:HG12	1.91	0.52
2:j:274:ALA:HB1	2:j:319:LEU:HG	1.90	0.52
2:o:273:CYS:CB	2:p:264:MET:O	2.40	0.52
2:q:93:TYR:OH	2:q:173:ARG:O	2.19	0.52
2:w:188:GLN:HB3	2:x:101:GLN:NE2	2.23	0.52
2:z:91:ALA:HB2	2:z:105:VAL:HG12	1.91	0.52
3:5:245:LYS:HE3	3:ZB:258:THR:O	2.09	0.52
3:9:238:ARG:CZ	4:ZF:397:ASN:HB2	2.39	0.52
4:ZR:44:ALA:HB3	4:ZR:50:LEU:HD12	1.91	0.52
4:ZW:33:LYS:NZ	4:ZW:362:GLU:OE1	2.42	0.52
4:Zb:233:ASN:HD21	4:Zb:237:ILE:HB	1.74	0.52
5:AE:232:LYS:CE	3:AK:260:LEU:O	2.57	0.52
6:AW:282:TYR:HB3	6:AX:292:THR:HG21	1.90	0.52
6:An:282:TYR:HB3	6:Ao:292:THR:HG21	1.90	0.52
8:At:188:LEU:HB3	8:At:189:PRO:HD2	1.91	0.52
9:Aw:152:ARG:CD	6:WB:164:LEU:O	2.54	0.52
9:Ax:180:LYS:O	9:Ax:184:GLN:HG3	2.09	0.52
6:UK:127:SER:O	6:UK:131:ASN:CG	2.52	0.52
6:UM:88:VAL:HB	6:UM:89:PRO:HD2	1.90	0.52
6:UO:159:MET:N	6:UO:159:MET:SD	2.82	0.52
6:WB:145:GLU:HG2	6:WB:152:SER:HA	1.91	0.52
6:WD:145:GLU:HG2	6:WD:152:SER:HA	1.90	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BD:10:ALA:HB3	12:BD:119:LEU:HD13	1.89	0.52
1:G:202:ASP:OD1	1:I:36:THR:HB	2.08	0.52
2:a:319:LEU:HD21	2:b:264:MET:CE	2.25	0.52
2:g:91:ALA:HB2	2:g:105:VAL:HG12	1.91	0.52
2:h:91:ALA:HB2	2:h:105:VAL:HG12	1.91	0.52
2:m:319:LEU:HD21	2:n:264:MET:CE	2.25	0.52
3:O:83:GLN:NE2	3:O:97:ILE:O	2.20	0.52
3:1:78:GLU:HG2	3:AK:121:GLN:NE2	2.23	0.52
3:2:208:LEU:O	3:2:210:GLY:N	2.42	0.52
3:ZA:111:THR:HG21	3:AN:163:GLY:HA2	1.91	0.52
3:ZD:47:GLN:N	3:ZD:68:ILE:O	2.41	0.52
4:ZH:399:LEU:O	4:ZH:400:VAL:C	2.51	0.52
4:ZP:208:TRP:NE1	4:ZP:268:GLN:OE1	2.36	0.52
4:ZR:288:ASP:H	4:ZR:305:SER:HG	1.57	0.52
4:Zc:10:LEU:HD22	4:Zc:389:ILE:HD12	1.91	0.52
4:Zg:85:LEU:HD13	4:Zg:114:MET:HB3	1.91	0.52
5:AA:70:GLN:HG3	3:AL:3:SER:CB	2.39	0.52
6:AV:293:LEU:HD21	6:AV:364:SER:HB3	1.91	0.52
6:AW:293:LEU:HD21	6:AW:364:SER:HB3	1.91	0.52
6:AX:293:LEU:HD21	6:AX:364:SER:HB3	1.91	0.52
6:Ag:293:LEU:HD21	6:Ag:364:SER:HB3	1.91	0.52
9:Aw:232:TRP:O	9:Aw:236:MET:HG3	2.10	0.52
9:Ax:116:PHE:O	11:A9:4:ARG:NH2	2.42	0.52
9:Ay:41:SER:HB3	11:A0:133:VAL:HG21	1.91	0.52
10:A4:7:ILE:HG22	6:BX:278:THR:CG2	2.32	0.52
6:UJ:88:VAL:HB	6:UJ:89:PRO:HD2	1.90	0.52
6:UJ:127:SER:O	6:UJ:131:ASN:CG	2.52	0.52
12:BA:80:PRO:HB3	12:BA:89:GLY:HA3	1.90	0.52
6:WA:145:GLU:HG2	6:WA:152:SER:HA	1.91	0.52
6:BU:282:TYR:HB3	6:BV:292:THR:HG21	1.90	0.52
6:BW:293:LEU:HD21	6:BW:364:SER:HB3	1.91	0.52
2:c:274:ALA:HB1	2:c:319:LEU:HG	1.90	0.52
2:x:91:ALA:HB2	2:x:105:VAL:HG12	1.91	0.52
3:O:251:ASP:OD1	3:AI:238:ARG:NH2	2.33	0.52
3:6:57:SER:O	3:6:59:GLN:N	2.35	0.52
4:ZG:380:ARG:NE	4:ZM:393:ASP:OD2	2.33	0.52
4:ZM:160:SER:O	4:ZM:202:LYS:NZ	2.41	0.52
4:ZZ:33:LYS:NZ	4:ZZ:362:GLU:OE1	2.42	0.52
5:AE:239:GLU:OE2	12:BF:113:GLN:NE2	2.39	0.52
3:AM:254:LEU:O	3:AM:258:THR:HG23	2.08	0.52
6:AT:293:LEU:HD21	6:AT:364:SER:HB3	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AX:282:TYR:HB3	6:AY:292:THR:HG21	1.90	0.52
6:AY:365:ASN:CG	11:A9:72:HIS:HD2	2.16	0.52
6:Ad:293:LEU:HD21	6:Ad:364:SER:HB3	1.92	0.52
9:Av:205:MET:HE3	9:Aw:209:MET:HA	1.91	0.52
9:Ay:240:ALA:CB	6:WG:165:PHE:CE1	2.89	0.52
10:A5:76:GLN:NE2	12:BA:123:LYS:HB2	2.24	0.52
6:WP:163:SER:C	6:WP:165:PHE:H	2.17	0.52
6:WR:111:VAL:HB	6:WR:114:GLU:HB3	1.92	0.52
6:BV:293:LEU:HD21	6:BV:364:SER:HB3	1.91	0.52
2:f:80:GLN:OE1	3:AK:137:GLN:OE1	2.27	0.52
2:i:91:ALA:HB2	2:i:105:VAL:HG12	1.91	0.52
2:k:274:ALA:HB1	2:k:319:LEU:HG	1.90	0.52
2:r:274:ALA:HB1	2:r:319:LEU:HG	1.90	0.52
2:y:91:ALA:HB2	2:y:105:VAL:HG12	1.92	0.52
3:l:16:GLN:OE1	3:l:16:GLN:HA	2.10	0.52
3:6:42:GLU:OE1	3:6:73:ARG:NH2	2.32	0.52
3:ZD:238:ARG:NH2	4:ZJ:393:ASP:OD1	2.43	0.52
4:ZF:84:ARG:NH1	4:ZF:134:PRO:HB2	2.23	0.52
4:ZU:71:ARG:NH1	4:ZZ:324:GLU:OE2	2.42	0.52
4:ZU:160:SER:HA	4:ZU:268:GLN:HE21	1.74	0.52
4:ZY:125:PRO:HD2	4:ZY:125:PRO:O	2.08	0.52
4:Zd:180:LYS:HB3	4:Zd:200:PHE:HB2	1.90	0.52
5:AA:72:ASP:OD1	3:AL:6:TRP:CD2	2.63	0.52
5:AC:48:GLY:HA3	6:BM:324:ASN:HD21	1.74	0.52
5:AD:35:ARG:HH11	5:AD:101:ARG:HG3	1.74	0.52
5:AD:76:ARG:HH21	3:AI:38:ARG:HH22	1.57	0.52
3:AI:185:GLU:HB3	3:AI:193:ILE:HG13	1.92	0.52
6:AZ:282:TYR:HB3	6:Aa:292:THR:HG21	1.90	0.52
7:Ab:4:GLU:OE2	6:WT:124:SER:CB	2.57	0.52
6:Af:293:LEU:HD21	6:Af:364:SER:HB3	1.91	0.52
6:Ai:293:LEU:HD21	6:Ai:364:SER:HB3	1.91	0.52
9:Au:149:LEU:HD22	9:Av:233:GLN:HG3	1.92	0.52
9:Av:152:ARG:HH12	6:WV:164:LEU:HD23	1.75	0.52
9:Ay:52:THR:OG1	10:A4:91:LYS:NZ	2.32	0.52
10:A4:73:ALA:HB1	11:A0:13:GLN:HE21	1.74	0.52
6:UI:80:ALA:HB3	6:UI:83:SER:HB3	1.91	0.52
6:UO:88:VAL:HB	6:UO:89:PRO:HD2	1.90	0.52
6:UO:127:SER:O	6:UO:131:ASN:CG	2.52	0.52
6:WF:116:LEU:HD21	6:WF:134:ARG:CZ	2.38	0.52
6:WJ:141:ALA:O	6:WJ:145:GLU:HG3	2.09	0.52
6:WK:145:GLU:HG2	6:WK:152:SER:HA	1.90	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WP:145:GLU:O	6:WP:147:LEU:N	2.42	0.52
6:WV:142:ARG:O	6:WV:146:THR:HG23	2.10	0.52
6:BS:235:LEU:HB3	6:BT:244:ARG:HH22	1.75	0.52
1:S:202:ASP:OD1	1:U:36:THR:HB	2.08	0.52
2:b:319:LEU:HD21	2:c:264:MET:CE	2.25	0.52
2:k:78:ASN:HB3	3:AJ:141:THR:OG1	2.09	0.52
2:q:274:ALA:HB1	2:q:319:LEU:HG	1.90	0.52
3:2:178:PHE:CE1	3:2:184:LEU:HD21	2.45	0.52
3:4:130:THR:OG1	3:4:131:ALA:N	2.42	0.52
4:ZL:93:PHE:CD2	4:ZL:114:MET:HE1	2.45	0.52
4:ZR:83:PHE:HB2	4:ZR:95:SER:O	2.10	0.52
4:ZR:200:PHE:CE2	4:ZR:263:PHE:HE1	2.26	0.52
4:ZR:331:ASP:HA	4:ZW:40:ALA:HB1	1.92	0.52
4:ZS:379:GLN:NE2	4:ZX:394:GLN:OE1	2.37	0.52
4:Zd:397:ASN:O	4:Zd:399:LEU:N	2.43	0.52
5:AB:40:ALA:HB1	12:BC:34:VAL:HG21	1.92	0.52
3:AL:254:LEU:O	3:AL:258:THR:HG23	2.09	0.52
6:AV:282:TYR:HB3	6:AW:292:THR:HG21	1.90	0.52
6:AY:293:LEU:HD21	6:AY:364:SER:HB3	1.92	0.52
6:Aa:293:LEU:HD21	6:Aa:364:SER:HB3	1.91	0.52
6:Ao:282:TYR:HB3	6:Ap:292:THR:HG21	1.90	0.52
6:AO:282:TYR:HB3	6:AP:292:THR:HG21	1.90	0.52
8:At:242:HIS:HB2	6:WJ:125:GLN:HB2	1.92	0.52
6:UM:159:MET:N	6:UM:159:MET:SD	2.82	0.52
6:UP:127:SER:O	6:UP:131:ASN:CG	2.52	0.52
6:WI:145:GLU:HG2	6:WI:152:SER:HA	1.91	0.52
6:WQ:168:GLU:O	6:WQ:169:GLN:C	2.52	0.52
2:a:188:GLN:CB	2:b:101:GLN:HE21	2.23	0.52
2:o:274:ALA:HB1	2:o:319:LEU:HG	1.90	0.52
2:t:91:ALA:HB2	2:t:105:VAL:HG12	1.91	0.52
2:t:188:GLN:CB	2:u:101:GLN:HE21	2.23	0.52
2:u:91:ALA:HB2	2:u:105:VAL:HG12	1.91	0.52
2:v:91:ALA:HB2	2:v:105:VAL:HG12	1.91	0.52
2:v:274:ALA:HB1	2:v:319:LEU:HG	1.90	0.52
2:w:91:ALA:HB2	2:w:105:VAL:HG12	1.91	0.52
2:w:274:ALA:HB1	2:w:319:LEU:HG	1.90	0.52
2:y:188:GLN:CB	2:z:101:GLN:HE21	2.23	0.52
3:7:235:GLN:HG2	3:ZD:5:LEU:HD21	1.91	0.52
4:ZL:27:SER:O	4:ZL:364:SER:OG	2.27	0.52
4:ZQ:102:LEU:HD21	4:ZQ:106:ARG:HA	1.90	0.52
5:AC:70:GLN:NE2	3:AN:1:MET:H2	2.08	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:228:GLU:OE2	3:AJ:256:LYS:HE3	2.10	0.52
3:AK:45:LEU:HD23	12:BF:90:TYR:OH	2.09	0.52
6:AS:235:LEU:HB3	6:AT:244:ARG:HH22	1.75	0.52
6:AX:278:THR:HG22	10:A3:7:ILE:HG21	1.91	0.52
6:UK:207:PRO:CG	6:WE:187:ASP:OD2	2.57	0.52
12:BA:131:THR:O	12:BA:131:THR:HG22	2.09	0.52
6:WP:200:SER:O	6:WQ:158:ALA:HB3	2.09	0.52
6:BR:282:TYR:HB3	6:BS:292:THR:HG21	1.90	0.52
1:A:57:PRO:HB2	2:y:132:GLN:OE1	2.10	0.52
1:U:57:PRO:HB2	2:s:132:GLN:OE1	2.10	0.52
2:j:91:ALA:HB2	2:j:105:VAL:HG12	1.91	0.52
2:l:319:LEU:HD21	2:m:264:MET:CE	2.25	0.52
2:p:274:ALA:HB1	2:p:319:LEU:HG	1.90	0.52
2:q:91:ALA:HB2	2:q:105:VAL:HG12	1.91	0.52
2:r:91:ALA:HB2	2:r:105:VAL:HG12	1.91	0.52
2:s:91:ALA:HB2	2:s:105:VAL:HG12	1.92	0.52
2:s:274:ALA:HB1	2:s:319:LEU:HG	1.90	0.52
2:t:274:ALA:HB1	2:t:319:LEU:HG	1.90	0.52
2:u:274:ALA:HB1	2:u:319:LEU:HG	1.90	0.52
3:3:219:VAL:HG11	3:8:38:ARG:HH12	1.75	0.52
3:7:75:VAL:O	3:ZC:50:ARG:NH1	2.37	0.52
3:7:257:LEU:HG	3:AK:230:LEU:HD12	1.92	0.52
4:ZF:139:ILE:HG12	4:ZF:312:LEU:HD22	1.92	0.52
4:ZK:322:ASN:OD1	4:ZK:325:GLY:N	2.43	0.52
4:ZO:2:SER:OG	4:ZO:3:PHE:N	2.37	0.52
4:ZQ:200:PHE:HE2	4:ZQ:263:PHE:HE2	1.57	0.52
4:ZS:151:THR:OG1	4:ZS:282:ASN:ND2	2.43	0.52
4:ZY:230:LEU:HD21	4:ZY:263:PHE:HD2	1.74	0.52
4:Zd:397:ASN:C	4:Zd:399:LEU:N	2.63	0.52
5:AA:79:ASP:HB3	5:AA:206:LEU:HD13	1.92	0.52
5:AB:89:VAL:HG12	5:AB:121:ILE:HB	1.91	0.52
5:AE:115:ILE:HD12	5:AE:120:VAL:HG22	1.91	0.52
3:AM:116:ARG:NH2	3:AM:220:GLU:OE1	2.42	0.52
6:Ao:235:LEU:HB3	6:Ap:244:ARG:HH22	1.75	0.52
6:AP:282:TYR:HB3	6:AQ:292:THR:HG21	1.90	0.52
6:UJ:159:MET:N	6:UJ:159:MET:SD	2.82	0.52
6:UK:159:MET:N	6:UK:159:MET:SD	2.82	0.52
6:WU:113:PHE:HB3	6:WV:134:ARG:CZ	2.39	0.52
6:WU:186:LEU:HA	6:WU:190:GLN:OE1	2.10	0.52
12:BD:20:ARG:NH2	12:BD:107:SER:HB2	2.24	0.52
6:BU:293:LEU:HD21	6:BU:364:SER:HB3	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:57:PRO:HB2	2:z:132:GLN:OE1	2.10	0.52
1:G:57:PRO:HB2	2:e:132:GLN:OE1	2.10	0.52
1:K:202:ASP:OD1	1:M:36:THR:HB	2.08	0.52
1:T:57:PRO:HB2	2:r:132:GLN:OE1	2.10	0.52
1:Z:57:PRO:HB2	2:x:132:GLN:OE1	2.10	0.52
2:b:274:ALA:HB1	2:b:319:LEU:HG	1.90	0.52
2:c:188:GLN:CB	2:d:101:GLN:HE21	2.23	0.52
2:m:188:GLN:CB	2:n:101:GLN:HE21	2.23	0.52
2:o:91:ALA:HB2	2:o:105:VAL:HG12	1.91	0.52
2:o:188:GLN:CB	2:p:101:GLN:HE21	2.23	0.52
2:p:91:ALA:HB2	2:p:105:VAL:HG12	1.91	0.52
2:v:188:GLN:CB	2:w:101:GLN:HE21	2.23	0.52
2:x:188:GLN:CB	2:y:101:GLN:HE21	2.23	0.52
2:x:274:ALA:HB1	2:x:319:LEU:HG	1.90	0.52
3:2:151:ILE:HG12	3:2:157:VAL:HG22	1.91	0.52
3:4:42:GLU:OE2	3:4:73:ARG:NE	2.28	0.52
3:ZC:5:LEU:O	3:ZC:9:LYS:HG3	2.09	0.52
4:ZU:144:MET:HE3	4:ZU:306:ASN:HD21	1.73	0.52
4:ZW:93:PHE:HB3	4:ZW:333:VAL:HG13	1.92	0.52
4:ZX:331:ASP:HA	4:Zc:40:ALA:HB1	1.92	0.52
4:ZZ:210:VAL:HB	4:ZZ:228:THR:HG22	1.91	0.52
4:Za:188:ASP:OD1	4:Za:192:ASN:N	2.42	0.52
4:Zf:397:ASN:O	4:Zf:400:VAL:N	2.43	0.52
4:Zg:157:ASN:HB3	4:Zg:271:THR:HG21	1.90	0.52
3:AN:3:SER:O	3:AN:7:ILE:HG13	2.09	0.52
6:Ah:293:LEU:HD21	6:Ah:364:SER:HB3	1.91	0.52
6:Aj:235:LEU:HB3	6:Ak:244:ARG:HH22	1.75	0.52
6:Ap:282:TYR:HB3	6:AO:292:THR:HG21	1.91	0.52
7:Aq:3:PRO:O	7:Aq:7:MET:HG2	2.10	0.52
7:As:35:ILE:HG21	7:As:50:SER:HA	1.92	0.52
9:Aw:80:THR:O	9:Aw:80:THR:OG1	2.26	0.52
10:A4:48:ARG:NH1	11:A0:3:ASP:OD2	2.43	0.52
6:WD:142:ARG:O	6:WD:146:THR:HG23	2.10	0.52
6:BT:293:LEU:HD21	6:BT:364:SER:HB3	1.91	0.52
6:BV:235:LEU:HB3	6:BW:244:ARG:HH22	1.75	0.52
1:F:57:PRO:HB2	2:d:132:GLN:OE1	2.10	0.52
1:N:57:PRO:HB2	2:l:132:GLN:OE1	2.10	0.52
1:O:57:PRO:HB2	2:m:132:GLN:OE1	2.10	0.52
1:V:57:PRO:HB2	2:t:132:GLN:OE1	2.10	0.52
2:a:101:GLN:HE21	2:z:188:GLN:CB	2.23	0.52
2:b:188:GLN:CB	2:c:101:GLN:HE21	2.23	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:319:LEU:HD21	2:d:264:MET:CE	2.25	0.52
2:l:274:ALA:HB1	2:l:319:LEU:HG	1.90	0.52
2:m:91:ALA:HB2	2:m:105:VAL:HG12	1.91	0.52
2:r:188:GLN:CB	2:s:101:GLN:HE21	2.23	0.52
2:w:188:GLN:CB	2:x:101:GLN:HE21	2.23	0.52
3:5:77:THR:HG23	3:ZA:66:LEU:HD12	1.90	0.52
3:5:257:LEU:HD21	3:AI:227:ALA:HA	1.91	0.52
3:7:218:TYR:OH	4:ZI:53:LYS:HG3	2.10	0.52
3:8:226:VAL:HG11	3:ZD:242:ILE:HD12	1.90	0.52
3:ZA:40:VAL:HG23	3:ZA:75:VAL:HB	1.92	0.52
4:ZH:380:ARG:HB3	4:ZN:396:LEU:HD13	1.91	0.52
4:ZI:367:ASP:O	4:ZI:371:GLU:HG2	2.10	0.52
4:ZN:41:ASP:N	4:ZN:41:ASP:OD2	2.42	0.52
4:ZN:212:THR:HG21	4:ZN:246:ILE:HD11	1.91	0.52
4:ZP:331:ASP:HA	4:ZU:40:ALA:HB1	1.91	0.52
4:ZP:380:ARG:NE	4:ZV:393:ASP:OD2	2.43	0.52
4:ZR:267:MET:HE2	4:ZR:269:GLN:HE22	1.74	0.52
4:ZW:331:ASP:HA	4:Zb:40:ALA:HB1	1.92	0.52
4:ZZ:381:ASN:O	4:ZZ:385:ASN:ND2	2.43	0.52
4:Zb:109:VAL:HG12	4:Zb:115:GLN:HA	1.92	0.52
4:Zf:317:LEU:HD21	4:Zf:356:LEU:HD11	1.91	0.52
5:AE:53:THR:HG22	12:BF:67:VAL:HG11	1.91	0.52
6:AV:235:LEU:HB3	6:AW:244:ARG:HH22	1.75	0.52
6:An:235:LEU:HB3	6:Ao:244:ARG:HH22	1.75	0.52
6:AO:235:LEU:HB3	6:AP:244:ARG:HH22	1.75	0.52
7:As:77:VAL:HG11	9:Ay:229:VAL:HG21	1.90	0.52
9:Au:199:VAL:O	9:Au:203:VAL:HG23	2.10	0.52
6:UI:88:VAL:HB	6:UI:89:PRO:HD2	1.90	0.52
6:WF:125:GLN:O	6:WF:128:GLU:N	2.43	0.52
6:WM:132:TYR:CD1	6:WN:130:VAL:HG22	2.45	0.52
6:WN:200:SER:HB2	6:WO:173:SER:HB2	1.92	0.52
6:WQ:145:GLU:O	6:WQ:147:LEU:N	2.43	0.52
6:WV:186:LEU:HA	6:WV:190:GLN:OE1	2.10	0.52
6:WW:118:GLN:O	6:WW:119:GLU:C	2.49	0.52
1:H:57:PRO:HB2	2:f:132:GLN:OE1	2.10	0.52
2:k:91:ALA:HB2	2:k:105:VAL:HG12	1.91	0.52
2:n:91:ALA:HB2	2:n:105:VAL:HG12	1.91	0.52
2:n:274:ALA:HB1	2:n:319:LEU:HG	1.90	0.52
2:r:93:TYR:OH	2:r:173:ARG:O	2.19	0.52
2:u:188:GLN:CB	2:v:101:GLN:HE21	2.23	0.52
3:4:7:ILE:HG23	3:4:71:GLY:HA2	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:7:18:ASN:O	3:7:22:ILE:HG13	2.10	0.52
4:ZK:170:PHE:HE2	4:ZK:223:PRO:HG2	1.74	0.52
4:ZS:180:LYS:HB2	4:ZS:274:ASN:HD22	1.75	0.52
4:ZV:34:SER:HB3	4:ZV:366:VAL:HG12	1.91	0.52
4:ZV:180:LYS:HD3	4:ZV:274:ASN:HB3	1.91	0.52
4:Za:116:LEU:HD21	4:Za:315:ILE:HD13	1.92	0.52
4:Zg:111:MET:HE2	4:Zg:111:MET:N	2.25	0.52
5:AA:102:ASN:HD22	5:AA:116:GLN:HE21	1.57	0.52
5:AB:221:ILE:HG23	3:AH:251:ASP:CG	2.28	0.52
5:AC:221:ILE:CG2	3:AI:251:ASP:OD2	2.58	0.52
6:Ag:235:LEU:HB3	6:Ah:244:ARG:HH22	1.75	0.52
6:Al:235:LEU:HB3	6:Am:244:ARG:HH22	1.75	0.52
6:AP:235:LEU:HB3	6:AQ:244:ARG:HH22	1.75	0.52
11:A7:67:LEU:HG	11:A7:72:HIS:HB3	1.92	0.52
6:UJ:80:ALA:HB3	6:UJ:83:SER:HB3	1.91	0.52
6:WD:168:GLU:OE1	6:WD:170:LYS:NZ	2.42	0.52
6:WD:197:LEU:HA	6:WE:175:SER:CB	2.40	0.52
6:WL:145:GLU:HG2	6:WL:152:SER:HA	1.91	0.52
6:WT:160:PRO:HD3	6:WT:172:PRO:CA	2.38	0.52
6:BO:325:GLU:OE1	6:BO:325:GLU:N	2.43	0.52
6:BT:235:LEU:HB3	6:BU:244:ARG:HH22	1.75	0.52
1:M:57:PRO:HB2	2:k:132:GLN:OE1	2.10	0.51
1:P:57:PRO:HB2	2:n:132:GLN:OE1	2.10	0.51
2:d:188:GLN:CB	2:e:101:GLN:HE21	2.23	0.51
2:e:188:GLN:CB	2:f:101:GLN:HE21	2.23	0.51
2:i:80:GLN:OE1	3:AJ:209:ASN:CA	2.57	0.51
2:v:93:TYR:OH	2:v:173:ARG:O	2.19	0.51
2:z:274:ALA:HB1	2:z:319:LEU:HG	1.90	0.51
3:ZE:37:GLN:HG2	3:ZE:79:ARG:HD2	1.92	0.51
4:ZI:154:MET:HG3	4:ZI:279:THR:HG22	1.91	0.51
4:ZM:374:ASN:O	4:ZM:377:VAL:N	2.43	0.51
4:ZS:118:GLY:HA2	4:ZS:316:VAL:HG12	1.92	0.51
4:ZV:211:TYR:CE2	4:ZV:226:ALA:HA	2.45	0.51
4:Za:150:THR:OG1	4:Za:282:ASN:ND2	2.34	0.51
4:Zc:146:ALA:HB2	4:Zc:286:PRO:HD3	1.91	0.51
5:AE:42:ARG:HG3	5:AE:58:THR:HG23	1.91	0.51
3:AK:107:LEU:HD12	3:AK:111:THR:HG23	1.92	0.51
6:AY:282:TYR:HB3	6:AZ:292:THR:HG21	1.91	0.51
7:Ab:65:ALA:O	7:Ab:69:MET:HG3	2.09	0.51
6:Aj:293:LEU:HD21	6:Aj:364:SER:HB3	1.91	0.51
6:AO:293:LEU:HD21	6:AO:364:SER:HB3	1.91	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:At:227:MET:SD	8:At:228:LEU:N	2.82	0.51
9:Av:83:ALA:HB1	9:Av:84:PRO:HD2	1.92	0.51
9:Ax:73:LEU:HD13	9:Ax:186:GLY:HA3	1.92	0.51
11:A8:46:ALA:O	11:A8:50:LYS:HG3	2.09	0.51
6:UI:127:SER:O	6:UI:131:ASN:CG	2.52	0.51
6:UM:127:SER:O	6:UM:131:ASN:CG	2.52	0.51
6:WD:149:PRO:CG	6:WD:190:GLN:HE22	2.23	0.51
6:WG:145:GLU:HG2	6:WG:152:SER:HA	1.91	0.51
6:WH:145:GLU:HG2	6:WH:152:SER:HA	1.91	0.51
6:WS:190:GLN:HG2	6:WT:217:GLY:HA3	1.91	0.51
12:BE:23:VAL:HG21	12:BE:47:VAL:HG13	1.91	0.51
6:BW:235:LEU:HB3	6:BX:244:ARG:HH22	1.75	0.51
2:d:319:LEU:HD21	2:e:264:MET:CE	2.25	0.51
2:f:188:GLN:CB	2:g:101:GLN:HE21	2.23	0.51
2:h:188:GLN:CB	2:i:101:GLN:HE21	2.23	0.51
2:l:91:ALA:HB2	2:l:105:VAL:HG12	1.92	0.51
2:q:188:GLN:CB	2:r:101:GLN:HE21	2.23	0.51
2:s:188:GLN:CB	2:t:101:GLN:HE21	2.23	0.51
3:ZA:241:GLU:HG2	4:ZF:398:THR:HG21	1.91	0.51
4:ZG:30:TYR:HD1	4:ZG:363:ALA:HA	1.75	0.51
4:ZM:80:ASN:OD1	4:ZM:81:GLY:N	2.43	0.51
4:ZR:162:ASP:OD2	4:ZR:274:ASN:ND2	2.42	0.51
4:ZZ:332:ASN:N	4:Ze:41:ASP:OD2	2.34	0.51
5:AB:221:ILE:HG21	3:AH:251:ASP:OD1	1.97	0.51
5:AD:135:ILE:HG23	5:AD:143:ILE:HG23	1.92	0.51
6:Ae:235:LEU:HB3	6:Af:244:ARG:HH22	1.75	0.51
6:WC:145:GLU:HG2	6:WC:152:SER:HA	1.91	0.51
6:WC:197:LEU:HA	6:WD:175:SER:OG	2.11	0.51
6:WD:118:GLN:O	6:WD:119:GLU:C	2.49	0.51
6:WF:125:GLN:O	6:WF:126:PHE:C	2.53	0.51
6:WF:197:LEU:HA	6:WG:175:SER:OG	2.10	0.51
6:WP:166:VAL:HA	6:WP:169:GLN:HB2	1.91	0.51
6:WQ:125:GLN:O	6:WQ:128:GLU:N	2.43	0.51
6:WT:161:LYS:HB3	6:WT:162:PRO:HD2	1.91	0.51
6:BR:235:LEU:HB3	6:BS:244:ARG:HH22	1.75	0.51
1:I:57:PRO:HB2	2:g:132:GLN:OE1	2.10	0.51
2:a:274:ALA:HB1	2:a:319:LEU:HG	1.90	0.51
2:k:319:LEU:HD21	2:l:264:MET:CE	2.25	0.51
2:y:274:ALA:HB1	2:y:319:LEU:HG	1.90	0.51
3:8:127:GLN:HE22	3:8:139:ALA:HB1	1.75	0.51
3:9:85:ASN:ND2	4:ZK:4:SER:CB	2.43	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ZC:34:PHE:HB3	3:ZC:222:SER:HB3	1.91	0.51
3:ZD:151:ILE:HG23	3:ZD:157:VAL:HG22	1.92	0.51
4:ZJ:34:SER:HB3	4:ZJ:366:VAL:HG22	1.92	0.51
4:ZV:2:SER:OG	4:ZV:392:GLN:OE1	2.21	0.51
4:ZV:184:VAL:HG13	4:ZV:196:MET:HB2	1.93	0.51
6:AR:235:LEU:HB3	6:Ac:244:ARG:HH22	1.75	0.51
6:AT:235:LEU:HB3	6:AU:244:ARG:HH22	1.75	0.51
6:AU:235:LEU:HB3	6:AV:244:ARG:HH22	1.75	0.51
6:AY:235:LEU:HB3	6:AZ:244:ARG:HH22	1.75	0.51
6:Ak:293:LEU:HD21	6:Ak:364:SER:HB3	1.91	0.51
6:Al:256:ILE:HG13	6:Al:257:VAL:N	2.26	0.51
6:Am:235:LEU:HB3	6:An:244:ARG:HH22	1.75	0.51
9:Au:67:ILE:H	9:Au:67:ILE:HD12	1.75	0.51
9:Av:74:LEU:HD22	9:Av:235:LEU:HD22	1.91	0.51
11:A8:67:LEU:HA	11:A8:72:HIS:HE2	1.74	0.51
6:UL:98:LEU:CD1	6:UL:146:THR:HG1	2.23	0.51
6:WR:190:GLN:NE2	6:WS:216:SER:O	2.43	0.51
12:BF:72:ALA:HB3	12:BF:95:ASN:HD22	1.74	0.51
1:W:57:PRO:HB2	2:u:132:GLN:OE1	2.10	0.51
1:Y:57:PRO:HB2	2:w:132:GLN:OE1	2.10	0.51
2:g:188:GLN:CB	2:h:101:GLN:HE21	2.23	0.51
2:k:188:GLN:CB	2:l:101:GLN:HE21	2.23	0.51
2:m:274:ALA:HB1	2:m:319:LEU:HG	1.90	0.51
2:p:188:GLN:CB	2:q:101:GLN:HE21	2.23	0.51
3:7:167:PRO:HG2	4:ZI:338:GLN:OE1	2.10	0.51
3:9:155:GLY:HA2	3:9:214:LEU:HD12	1.92	0.51
4:ZL:269:GLN:NE2	4:ZR:190:GLN:HA	2.25	0.51
4:ZP:234:GLU:OE1	4:ZV:255:THR:N	2.42	0.51
4:ZR:200:PHE:HE2	4:ZR:263:PHE:HE1	1.58	0.51
4:ZS:307:GLU:N	4:ZS:307:GLU:OE2	2.43	0.51
4:ZV:211:TYR:HE2	4:ZV:226:ALA:HA	1.75	0.51
3:AM:129:VAL:HG12	3:AM:135:GLN:HA	1.91	0.51
6:AW:256:ILE:HG13	6:AW:257:VAL:N	2.26	0.51
6:AX:235:LEU:HB3	6:AY:244:ARG:HH22	1.75	0.51
7:Ab:89:GLY:C	6:WS:165:PHE:HE1	2.17	0.51
7:Ar:4:GLU:C	7:Ar:6:VAL:N	2.67	0.51
7:As:78:ARG:HG3	9:Ay:234:LEU:HD11	1.91	0.51
9:Aw:42:VAL:HG13	10:A3:42:LEU:HD22	1.93	0.51
10:A2:8:GLU:O	10:A2:11:ILE:HG13	2.09	0.51
11:A6:29:ASN:ND2	11:A6:41:ARG:O	2.36	0.51
11:A6:62:GLY:HA2	11:A6:79:SER:HB3	1.91	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:A9:103:ASP:OD1	12:BE:112:TYR:OH	2.14	0.51
6:UP:204:GLY:O	6:UP:206:PRO:HD3	2.11	0.51
12:BB:7:PHE:HZ	12:BB:123:LYS:HB2	1.76	0.51
6:WC:197:LEU:CD1	6:WD:175:SER:OG	2.58	0.51
6:WM:145:GLU:HG2	6:WM:152:SER:HA	1.91	0.51
6:WR:165:PHE:C	6:WR:167:ARG:H	2.18	0.51
12:BE:28:LEU:HD21	12:BE:101:GLU:HB2	1.91	0.51
6:BS:293:LEU:HD21	6:BS:364:SER:HB3	1.91	0.51
1:E:57:PRO:HB2	2:c:132:GLN:OE1	2.10	0.51
1:S:57:PRO:HB2	2:q:132:GLN:OE1	2.10	0.51
2:g:78:ASN:CB	3:AK:125:ASN:CG	2.84	0.51
2:j:188:GLN:CB	2:k:101:GLN:HE21	2.23	0.51
3:5:85:ASN:ND2	4:ZG:4:SER:CB	2.73	0.51
3:ZB:25:ASN:HD21	3:ZB:37:GLN:H	1.57	0.51
3:ZB:130:THR:HG22	3:ZB:131:ALA:H	1.75	0.51
3:ZC:19:MET:CE	4:ZH:391:THR:HG22	2.41	0.51
3:ZC:26:LEU:HD22	4:ZH:384:SER:OG	2.09	0.51
3:ZC:174:ASN:ND2	3:ZC:203:GLU:OE2	2.42	0.51
4:ZG:150:THR:OG1	4:ZG:282:ASN:ND2	2.38	0.51
4:ZU:33:LYS:NZ	4:ZU:362:GLU:OE1	2.40	0.51
4:ZU:150:THR:HG23	4:ZU:151:THR:HG23	1.93	0.51
4:ZW:210:VAL:HB	4:ZW:228:THR:HG22	1.93	0.51
4:Zf:314:GLN:NE2	4:Zf:347:THR:OG1	2.44	0.51
5:AC:131:GLU:CB	3:AH:179:MET:CE	2.86	0.51
5:AE:60:SER:CB	3:AJ:65:GLY:O	2.58	0.51
5:AE:225:ARG:HD2	3:AK:254:LEU:HB3	1.91	0.51
3:AL:79:ARG:HH22	3:AL:184:LEU:HB2	1.74	0.51
3:AL:89:THR:OG1	3:AL:94:ASP:OD2	2.28	0.51
6:AR:244:ARG:HH22	6:Aa:235:LEU:HB3	1.75	0.51
6:AY:256:ILE:HG13	6:AY:257:VAL:N	2.26	0.51
6:Aa:256:ILE:HG13	6:Aa:257:VAL:N	2.26	0.51
6:An:293:LEU:HD21	6:An:364:SER:HB3	1.91	0.51
8:At:130:ASP:O	8:At:134:MET:HG2	2.10	0.51
9:Ax:75:ARG:NH1	9:Ax:86:ASN:OD1	2.36	0.51
10:A4:53:ARG:O	10:A4:57:GLU:HG2	2.11	0.51
6:UJ:253:GLY:O	6:UJ:255:PRO:HD3	2.11	0.51
6:UL:159:MET:SD	6:UL:159:MET:N	2.82	0.51
6:UO:204:GLY:O	6:UO:206:PRO:HD3	2.11	0.51
6:WA:132:TYR:HB2	6:WB:126:PHE:HZ	1.76	0.51
6:WJ:128:GLU:HG3	6:WK:126:PHE:CD2	2.43	0.51
6:WQ:125:GLN:O	6:WQ:126:PHE:C	2.53	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:57:PRO:HB2	2:a:132:GLN:OE1	2.10	0.51
1:L:57:PRO:HB2	2:j:132:GLN:OE1	2.10	0.51
1:Q:57:PRO:HB2	2:o:132:GLN:OE1	2.10	0.51
2:e:319:LEU:HD21	2:f:264:MET:CE	2.25	0.51
2:i:188:GLN:CB	2:j:101:GLN:HE21	2.23	0.51
2:m:193:ASP:CG	2:n:23:ARG:HH22	2.19	0.51
3:0:120:PHE:HB3	3:0:128:LEU:HD22	1.92	0.51
3:5:56:SER:C	5:AD:138:ALA:HB1	2.35	0.51
3:ZB:227:ALA:HA	4:ZM:399:LEU:HD23	1.91	0.51
4:ZI:374:ASN:O	4:ZI:375:MET:C	2.54	0.51
4:ZJ:331:ASP:HA	4:ZO:40:ALA:HB1	1.91	0.51
4:ZM:144:MET:HE3	4:ZM:306:ASN:HD21	1.76	0.51
4:ZQ:379:GLN:HE21	4:ZV:394:GLN:HE22	1.58	0.51
4:Zg:144:MET:HE2	4:Zg:310:GLN:HE21	1.76	0.51
5:AB:70:GLN:CD	3:AM:6:TRP:NE1	2.68	0.51
5:AD:240:ASN:ND2	12:BE:109:SER:OG	2.42	0.51
5:AE:248:LEU:O	12:BE:121:THR:OG1	2.19	0.51
6:Ad:235:LEU:HB3	6:Ae:244:ARG:HH22	1.75	0.51
6:Ak:370:ARG:HE	10:A1:7:ILE:CD1	2.24	0.51
6:Al:294:ARG:HD2	11:A7:68:THR:HG21	1.92	0.51
6:An:256:ILE:HG13	6:An:257:VAL:N	2.26	0.51
7:Aq:59:PHE:HZ	9:Av:198:LEU:HD21	1.75	0.51
6:WN:203:ALA:HB1	6:WO:160:PRO:HB3	1.93	0.51
2:g:78:ASN:CG	3:AK:125:ASN:CG	2.78	0.51
2:k:193:ASP:CG	2:l:23:ARG:HH22	2.19	0.51
2:l:193:ASP:CG	2:m:23:ARG:HH22	2.19	0.51
2:n:188:GLN:CB	2:o:101:GLN:HE21	2.23	0.51
3:ZD:31:THR:HG22	4:ZI:39:PHE:HB2	1.91	0.51
4:ZI:75:VAL:O	4:ZI:98:GLY:HA3	2.10	0.51
4:ZJ:57:ILE:HG13	4:ZO:47:LYS:HB2	1.93	0.51
4:ZK:27:SER:HA	4:ZK:366:VAL:HG21	1.93	0.51
4:ZP:139:ILE:HA	4:ZP:312:LEU:HD13	1.91	0.51
4:ZR:114:MET:HE1	4:ZR:333:VAL:HG11	1.93	0.51
4:ZS:102:LEU:HD21	4:ZS:106:ARG:HD3	1.93	0.51
3:AJ:98:LYS:HG3	3:AJ:215:TYR:HE2	1.76	0.51
3:AL:2:ILE:HG23	3:AL:254:LEU:HD11	1.92	0.51
6:AS:295:SER:HB2	11:A0:65:LEU:CB	2.39	0.51
6:Ah:235:LEU:HB3	6:Ai:244:ARG:HH22	1.75	0.51
6:Ai:235:LEU:HB3	6:Aj:244:ARG:HH22	1.75	0.51
6:Aj:256:ILE:HG13	6:Aj:257:VAL:N	2.26	0.51
6:Ap:293:LEU:HD21	6:Ap:364:SER:HB3	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:As:17:ALA:HB2	9:Ay:195:ILE:HG23	1.93	0.51
8:At:88:MET:HG2	8:At:146:LEU:HD11	1.93	0.51
9:Av:193:PHE:HB3	9:Av:222:LYS:HD3	1.92	0.51
10:A4:14:LEU:CB	6:BW:278:THR:HG21	2.31	0.51
6:WK:200:SER:CA	6:WL:173:SER:OG	2.59	0.51
6:BR:293:LEU:HD21	6:BR:364:SER:HB3	1.91	0.51
1:J:57:PRO:HB2	2:h:132:GLN:OE1	2.10	0.51
2:f:319:LEU:HD21	2:g:264:MET:CE	2.25	0.51
2:j:193:ASP:CG	2:k:23:ARG:HH22	2.19	0.51
3:5:49:ILE:HG22	3:5:50:ARG:HG3	1.93	0.51
3:6:115:THR:HB	3:6:191:LEU:HD23	1.93	0.51
4:ZG:150:THR:HG1	4:ZG:282:ASN:HD21	1.59	0.51
4:ZJ:306:ASN:O	4:ZJ:307:GLU:HG2	2.10	0.51
4:ZO:199:TYR:O	4:ZO:210:VAL:HA	2.11	0.51
4:ZQ:74:ASP:HB3	4:ZQ:361:LEU:HG	1.93	0.51
4:ZS:5:GLN:HG3	4:ZS:50:LEU:O	2.11	0.51
4:ZS:93:PHE:HB3	4:ZS:333:VAL:HG13	1.93	0.51
4:ZV:95:SER:OG	4:ZV:333:VAL:HG23	2.10	0.51
4:Za:112:GLN:NE2	4:Za:331:ASP:O	2.43	0.51
4:Zb:95:SER:HB2	4:Zb:333:VAL:HG22	1.92	0.51
4:Zg:317:LEU:HD11	4:Zg:356:LEU:HD21	1.92	0.51
4:Zh:284:TYR:HB2	4:Zh:306:ASN:HD22	1.76	0.51
5:AB:153:ASN:ND2	3:AM:194:GLU:CD	2.69	0.51
5:AB:224:ALA:HB2	3:AG:249:THR:HG23	1.93	0.51
5:AE:228:GLU:OE2	3:AJ:256:LYS:HG3	2.10	0.51
3:AK:73:ARG:CD	12:BF:78:TYR:CZ	2.93	0.51
3:AN:21:VAL:HG21	3:AN:39:ALA:HB2	1.91	0.51
6:Al:293:LEU:HD21	6:Al:364:SER:HB3	1.91	0.51
6:Am:293:LEU:HD21	6:Am:364:SER:HB3	1.91	0.51
6:Ao:256:ILE:HG13	6:Ao:257:VAL:N	2.26	0.51
6:Ap:256:ILE:HG13	6:Ap:257:VAL:N	2.26	0.51
6:AO:256:ILE:HG13	6:AO:257:VAL:N	2.26	0.51
8:At:86:PHE:CZ	9:Au:91:GLY:HA3	2.45	0.51
6:UI:204:GLY:O	6:UI:206:PRO:HD3	2.11	0.51
6:WF:116:LEU:CD2	6:WF:134:ARG:HD3	2.41	0.51
1:M:102:THR:OG1	1:O:232:MET:CE	2.59	0.51
2:g:319:LEU:HD21	2:h:264:MET:CE	2.25	0.51
2:i:193:ASP:CG	2:j:23:ARG:HH22	2.19	0.51
2:n:193:ASP:CG	2:o:23:ARG:HH22	2.19	0.51
4:ZG:208:TRP:NE1	4:ZG:268:GLN:OE1	2.40	0.51
4:ZH:112:GLN:HG2	4:ZH:331:ASP:HB3	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZM:165:PRO:HG2	4:ZM:201:VAL:HG13	1.92	0.51
4:ZT:196:MET:SD	4:ZT:248:THR:HG22	2.51	0.51
5:AA:55:THR:OG1	12:BB:45:LYS:NZ	2.44	0.51
5:AC:175:ASP:OD1	3:AH:48:THR:OG1	2.29	0.51
3:AF:73:ARG:HD2	12:BA:78:TYR:OH	2.10	0.51
3:AF:233:MET:HE1	3:AK:246:ALA:HA	1.93	0.51
3:AG:31:THR:HG23	3:AL:42:GLU:HA	1.92	0.51
3:AI:178:PHE:CE1	3:AI:201:PRO:HB3	2.46	0.51
3:AJ:19:MET:HG2	3:AJ:236:VAL:HG11	1.93	0.51
6:AT:256:ILE:HG13	6:AT:257:VAL:N	2.26	0.51
6:AU:256:ILE:HG13	6:AU:257:VAL:N	2.26	0.51
6:AV:256:ILE:HG13	6:AV:257:VAL:N	2.26	0.51
6:AZ:256:ILE:HG13	6:AZ:257:VAL:N	2.26	0.51
6:Ah:256:ILE:HG13	6:Ah:257:VAL:N	2.26	0.51
6:AQ:293:LEU:HD21	6:AQ:364:SER:HB3	1.91	0.51
7:Aq:10:GLY:O	7:Aq:14:MET:HE2	2.11	0.51
9:Au:135:ARG:NH2	9:Au:165:VAL:O	2.44	0.51
11:A0:92:GLN:HE21	12:BF:19:LYS:HG2	1.76	0.51
6:UI:98:LEU:HD22	6:UI:147:LEU:CD2	2.39	0.51
6:UN:204:GLY:O	6:UN:206:PRO:HD3	2.11	0.51
6:UO:98:LEU:HD22	6:UO:147:LEU:CD2	2.39	0.51
6:WQ:147:LEU:O	6:WQ:148:GLY:C	2.54	0.51
6:WR:115:LEU:HD22	6:WR:134:ARG:HH11	1.75	0.51
6:BU:235:LEU:HB3	6:BV:244:ARG:HH22	1.75	0.51
1:N:102:THR:OG1	1:P:232:MET:CE	2.59	0.51
2:l:188:GLN:CB	2:m:101:GLN:HE21	2.23	0.51
3:4:151:ILE:HG12	3:4:157:VAL:HG22	1.93	0.51
3:4:255:GLN:HE21	3:4:259:GLN:NE2	2.09	0.51
3:5:248:SER:HB3	3:ZA:260:LEU:HD22	1.93	0.51
3:ZE:59:GLN:HG2	3:ZE:60:THR:HG23	1.92	0.51
3:ZE:115:THR:HB	3:ZE:191:LEU:HD23	1.93	0.51
4:ZK:348:ALA:HB2	4:ZK:356:LEU:HD13	1.94	0.51
4:ZT:71:ARG:HB3	4:ZT:74:ASP:OD1	2.11	0.51
4:ZZ:204:LYS:HG3	4:ZZ:205:ASP:H	1.76	0.51
4:Zh:77:ILE:HD13	4:Zh:96:ARG:HD2	1.92	0.51
4:Zh:392:GLN:HA	4:Zh:395:ILE:HG22	1.93	0.51
5:AC:202:MET:SD	3:AN:44:LEU:CD2	2.99	0.51
5:AD:214:VAL:HG11	3:AJ:12:LEU:HB2	1.93	0.51
6:AQ:235:LEU:HB3	6:BR:244:ARG:HH22	1.75	0.51
6:UM:204:GLY:O	6:UM:206:PRO:HD3	2.11	0.51
6:WI:193:ALA:HB1	6:WJ:213:VAL:HG21	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WP:128:GLU:CG	6:WQ:126:PHE:CE2	2.93	0.51
1:L:102:THR:OG1	1:N:232:MET:CE	2.59	0.50
1:O:102:THR:OG1	1:Q:232:MET:CE	2.59	0.50
1:P:102:THR:OG1	1:R:232:MET:CE	2.59	0.50
2:j:319:LEU:HD21	2:k:264:MET:CE	2.25	0.50
3:ZC:28:ASN:OD1	4:ZH:52:VAL:HB	2.11	0.50
3:ZC:98:LYS:CE	4:ZN:44:ALA:CB	2.89	0.50
4:ZG:104:GLU:HA	4:ZG:104:GLU:OE2	2.10	0.50
4:ZG:264:LEU:HD12	4:ZG:265:ASN:H	1.75	0.50
4:ZH:390:LYS:HB2	4:ZM:402:LEU:HD22	1.92	0.50
4:ZQ:71:ARG:HG2	4:ZQ:73:LEU:H	1.76	0.50
4:ZQ:156:ILE:HG22	4:ZQ:276:ILE:HG23	1.93	0.50
4:ZS:139:ILE:HA	4:ZS:312:LEU:HD23	1.93	0.50
4:ZT:165:PRO:HG2	4:ZT:201:VAL:HG13	1.92	0.50
4:Zd:397:ASN:O	4:Zd:398:THR:C	2.53	0.50
5:AB:16:LEU:HD22	3:AG:2:ILE:HD11	1.93	0.50
5:AE:60:SER:HB2	3:AJ:65:GLY:O	2.10	0.50
6:AS:303:GLN:HE22	12:BE:56:GLY:HA3	1.76	0.50
6:AP:256:ILE:HG13	6:AP:257:VAL:N	2.26	0.50
7:As:2:THR:HG23	7:As:5:SER:H	1.77	0.50
7:As:58:VAL:O	7:As:62:ILE:HD12	2.11	0.50
8:At:205:ASN:ND2	9:Au:211:MET:HB2	2.25	0.50
9:Ax:161:GLY:C	9:Ax:163:GLU:N	2.69	0.50
6:UO:98:LEU:CD1	6:UO:146:THR:HG1	2.24	0.50
6:WB:190:GLN:NE2	6:WC:216:SER:O	2.44	0.50
6:WJ:139:GLU:HB3	6:WK:156:HIS:HE1	1.76	0.50
6:WK:160:PRO:HB3	6:WK:170:LYS:HB2	1.93	0.50
6:WQ:190:GLN:HG2	6:WR:216:SER:O	2.11	0.50
6:BR:256:ILE:HG13	6:BR:257:VAL:N	2.26	0.50
1:K:57:PRO:HB2	2:i:132:GLN:OE1	2.10	0.50
1:K:102:THR:OG1	1:M:232:MET:CE	2.59	0.50
1:Q:107:ASP:OD1	4:ZF:133:ASN:N	2.44	0.50
1:R:57:PRO:HB2	2:p:132:GLN:OE1	2.10	0.50
1:X:57:PRO:HB2	2:v:132:GLN:OE1	2.10	0.50
2:h:193:ASP:CG	2:i:23:ARG:HH22	2.19	0.50
2:h:319:LEU:HD21	2:i:264:MET:CE	2.25	0.50
3:0:19:MET:HB2	3:0:236:VAL:HG11	1.93	0.50
3:ZB:175:LEU:HD21	3:ZB:214:LEU:HD21	1.94	0.50
4:ZG:65:THR:HG22	4:ZR:50:LEU:HD22	1.92	0.50
4:ZJ:109:VAL:HG12	4:ZJ:115:GLN:HG3	1.93	0.50
4:ZK:103:ASP:OD1	4:ZK:107:ASN:N	2.40	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZL:42:MET:HG2	4:ZL:53:LYS:HD3	1.93	0.50
4:ZM:206:ASN:ND2	4:ZM:233:ASN:O	2.44	0.50
4:ZO:373:VAL:O	4:ZO:374:ASN:C	2.54	0.50
4:ZP:17:LEU:HD13	4:ZU:395:ILE:HD11	1.92	0.50
4:Za:109:VAL:HG12	4:Za:115:GLN:HA	1.92	0.50
4:Za:171:SER:O	4:Za:177:SER:OG	2.28	0.50
4:Zb:154:MET:HE3	4:Zb:156:ILE:HB	1.93	0.50
4:Zg:83:PHE:HB2	4:Zg:95:SER:O	2.11	0.50
5:AC:16:LEU:CD2	3:AH:253:MET:HE3	2.41	0.50
5:AE:51:LEU:HD12	12:BF:19:LYS:HD3	1.93	0.50
3:AI:189:GLU:O	3:AI:191:LEU:HG	2.12	0.50
6:Af:256:ILE:HG13	6:Af:257:VAL:N	2.26	0.50
6:Ak:256:ILE:HG13	6:Ak:257:VAL:N	2.26	0.50
6:Ap:235:LEU:HB3	6:AO:244:ARG:HH22	1.75	0.50
9:Aw:65:THR:O	9:Aw:68:ILE:HG22	2.12	0.50
9:Ax:119:GLN:HG3	11:A9:4:ARG:HE	1.75	0.50
9:Ax:204:LEU:HD11	9:Ax:217:ILE:HD12	1.93	0.50
10:A4:84:MET:O	10:A4:88:VAL:HG23	2.12	0.50
6:WF:116:LEU:HD21	6:WF:134:ARG:HD3	1.93	0.50
1:D:57:PRO:HB2	2:b:132:GLN:OE1	2.10	0.50
1:J:102:THR:OG1	1:L:232:MET:CE	2.59	0.50
1:Q:102:THR:OG1	1:S:232:MET:CE	2.59	0.50
1:R:102:THR:OG1	1:T:232:MET:CE	2.59	0.50
2:z:193:ASP:HB3	2:z:196:MET:HB2	1.93	0.50
3:ZC:10:THR:HG23	3:ZC:71:GLY:HA3	1.94	0.50
3:ZC:77:THR:O	3:ZC:77:THR:OG1	2.28	0.50
4:ZF:379:GLN:HG3	4:ZK:391:THR:HG23	1.92	0.50
4:ZK:109:VAL:HG12	4:ZK:115:GLN:HA	1.93	0.50
4:Za:41:ASP:OD1	4:Za:41:ASP:N	2.45	0.50
5:AB:248:LEU:HD13	12:BB:118:VAL:HG23	1.93	0.50
5:AD:129:VAL:HG11	5:AD:135:ILE:HD11	1.92	0.50
3:AI:62:LEU:CD2	12:BE:83:PRO:HD2	2.41	0.50
6:AW:235:LEU:HB3	6:AX:244:ARG:HH22	1.75	0.50
6:Ao:293:LEU:HD21	6:Ao:364:SER:HB3	1.91	0.50
7:As:2:THR:O	7:As:5:SER:OG	2.24	0.50
6:UL:204:GLY:O	6:UL:206:PRO:HD3	2.11	0.50
6:WT:162:PRO:O	6:WT:163:SER:HB3	2.11	0.50
1:S:102:THR:OG1	1:U:232:MET:CE	2.59	0.50
2:a:193:ASP:HB3	2:a:196:MET:HB2	1.94	0.50
2:b:193:ASP:HB3	2:b:196:MET:HB2	1.94	0.50
2:v:54:GLN:NE2	3:AM:110:GLY:HA3	2.26	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:x:193:ASP:CG	2:y:23:ARG:HH22	2.19	0.50
2:y:193:ASP:CG	2:z:23:ARG:HH22	2.19	0.50
3:0:108:PRO:HG2	3:AI:153:ARG:HH21	1.76	0.50
3:1:248:SER:O	3:1:252:GLN:HG3	2.11	0.50
3:6:55:GLN:O	5:AE:138:ALA:HB2	2.10	0.50
3:7:164:GLN:HE22	3:7:166:ALA:HB3	1.76	0.50
3:ZA:121:GLN:OE1	4:ZF:324:GLU:HG3	2.10	0.50
3:ZB:227:ALA:HA	4:ZM:399:LEU:CD2	2.41	0.50
3:ZE:37:GLN:NE2	4:ZJ:43:PHE:CE1	2.80	0.50
4:ZG:146:ALA:HB2	4:ZG:286:PRO:HD3	1.92	0.50
4:ZO:236:GLY:CA	4:ZO:268:GLN:H	2.22	0.50
4:ZQ:367:ASP:O	4:ZQ:371:GLU:HG2	2.10	0.50
5:AD:1:MET:HE2	12:BD:107:SER:HA	1.94	0.50
5:AE:60:SER:CA	3:AJ:65:GLY:O	2.59	0.50
3:AF:44:LEU:HD21	12:BA:78:TYR:CB	2.34	0.50
3:AI:6:TRP:CE2	12:BD:77:VAL:HB	2.46	0.50
6:AS:244:ARG:HH22	6:BX:235:LEU:HB3	1.75	0.50
6:AX:372:ILE:CB	10:A3:11:ILE:HG22	2.41	0.50
6:Ac:235:LEU:HB3	6:Ad:244:ARG:HH22	1.75	0.50
6:Af:235:LEU:HB3	6:Ag:244:ARG:HH22	1.75	0.50
6:Ak:235:LEU:HB3	6:Al:244:ARG:HH22	1.75	0.50
6:AP:293:LEU:HD21	6:AP:364:SER:HB3	1.92	0.50
8:At:106:MET:HE1	8:At:226:ILE:HG13	1.93	0.50
9:Av:180:LYS:NZ	9:Aw:230:ASP:OD1	2.27	0.50
9:Ax:162:PRO:HD2	6:WE:167:ARG:HH21	1.75	0.50
6:UO:162:PRO:O	6:UO:163:SER:C	2.55	0.50
12:BB:54:ALA:HB3	12:BB:55:PRO:HD3	1.93	0.50
6:WG:200:SER:OG	6:WH:175:SER:CB	2.45	0.50
6:WH:200:SER:HG	6:WI:175:SER:HB2	1.74	0.50
6:WM:145:GLU:O	6:WM:146:THR:C	2.54	0.50
6:WV:196:HIS:HB3	6:WW:211:THR:HG21	1.93	0.50
2:g:193:ASP:CG	2:h:23:ARG:HH22	2.19	0.50
2:r:198:GLN:NE2	2:s:234:ARG:NH1	2.60	0.50
2:s:198:GLN:NE2	2:t:234:ARG:NH1	2.60	0.50
2:v:193:ASP:CG	2:w:23:ARG:HH22	2.19	0.50
2:w:193:ASP:CG	2:x:23:ARG:HH22	2.19	0.50
2:x:193:ASP:HB3	2:x:196:MET:HB2	1.94	0.50
2:y:193:ASP:HB3	2:y:196:MET:HB2	1.94	0.50
3:4:226:VAL:HG11	3:9:242:ILE:HD13	1.93	0.50
3:4:240:TYR:HE2	3:9:257:LEU:HG	1.76	0.50
3:5:56:SER:H	3:5:61:THR:HA	1.77	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6:35:LYS:NZ	3:6:220:GLU:OE2	2.39	0.50
3:ZA:128:LEU:HD12	3:ZA:140:ILE:HB	1.92	0.50
4:ZM:271:THR:OG1	4:ZM:273:ALA:O	2.27	0.50
4:ZP:96:ARG:NH2	4:ZP:362:GLU:OE2	2.39	0.50
4:ZQ:30:TYR:HD1	4:ZQ:363:ALA:HA	1.75	0.50
4:ZR:180:LYS:NZ	4:ZR:181:LYS:O	2.45	0.50
4:ZS:271:THR:OG1	4:ZS:273:ALA:O	2.29	0.50
4:Zf:381:ASN:O	4:Zf:385:ASN:ND2	2.44	0.50
5:AB:172:GLN:HB2	5:AB:182:THR:HG22	1.93	0.50
5:AB:202:MET:CE	3:AM:73:ARG:CD	2.85	0.50
5:AE:35:ARG:O	5:AE:173:ARG:NH2	2.44	0.50
3:AG:79:ARG:NH2	3:AG:186:SER:OG	2.44	0.50
3:AI:164:GLN:C	3:AI:166:ALA:H	2.19	0.50
3:AM:205:THR:OG1	3:AM:208:LEU:HB2	2.11	0.50
6:AX:256:ILE:HG13	6:AX:257:VAL:N	2.26	0.50
6:Ad:256:ILE:HG13	6:Ad:257:VAL:N	2.26	0.50
10:A3:57:GLU:HG2	11:A8:11:PHE:CE2	2.47	0.50
6:UK:204:GLY:O	6:UK:206:PRO:HD3	2.11	0.50
6:UP:162:PRO:O	6:UP:163:SER:C	2.55	0.50
6:WG:115:LEU:HG	6:WG:116:LEU:N	2.25	0.50
6:WU:114:GLU:O	6:WU:115:LEU:C	2.54	0.50
6:WW:145:GLU:C	6:WW:147:LEU:H	2.19	0.50
6:BW:256:ILE:HG13	6:BW:257:VAL:N	2.26	0.50
1:I:102:THR:OG1	1:K:232:MET:CE	2.59	0.50
1:R:63:GLN:NE2	2:q:68:GLN:HE22	2.10	0.50
2:c:193:ASP:HB3	2:c:196:MET:HB2	1.94	0.50
2:d:193:ASP:HB3	2:d:196:MET:HB2	1.94	0.50
2:q:198:GLN:NE2	2:r:234:ARG:NH1	2.60	0.50
2:t:198:GLN:NE2	2:u:234:ARG:NH1	2.60	0.50
2:v:193:ASP:HB3	2:v:196:MET:HB2	1.93	0.50
3:5:173:LEU:HD23	3:5:214:LEU:HD13	1.93	0.50
3:ZC:145:ASN:HA	4:ZH:352:ASN:HD22	1.75	0.50
3:ZD:231:VAL:HG11	4:ZJ:7:VAL:HG22	1.93	0.50
3:ZD:233:MET:CE	4:ZI:388:THR:CG2	2.89	0.50
4:ZF:22:ASN:ND2	4:ZK:48:VAL:O	2.40	0.50
4:ZH:84:ARG:HD2	4:ZH:345:LEU:HD21	1.93	0.50
4:ZH:144:MET:HE3	4:ZH:306:ASN:HD21	1.77	0.50
4:ZN:65:THR:HG21	4:ZY:4:SER:HB2	1.93	0.50
4:ZV:159:ASN:ND2	4:ZV:162:ASP:OD2	2.38	0.50
4:Zb:86:VAL:HG13	4:Zb:115:GLN:HB2	1.92	0.50
4:Zb:114:MET:HE1	4:Zb:333:VAL:HG11	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Zd:349:GLY:HA3	4:Zd:355:LYS:HD3	1.92	0.50
5:AA:231:MET:HE2	3:AF:257:LEU:HA	1.93	0.50
3:AF:82:SER:OG	3:AF:223:ASN:ND2	2.36	0.50
8:At:229:MET:O	8:At:233:MET:HG2	2.12	0.50
10:A5:11:ILE:HG22	6:BR:372:ILE:CG2	2.41	0.50
6:WD:197:LEU:CD1	6:WE:175:SER:OG	2.59	0.50
12:BD:10:ALA:O	12:BD:14:LEU:HG	2.12	0.50
1:T:102:THR:OG1	1:V:232:MET:CE	2.59	0.50
2:e:193:ASP:HB3	2:e:196:MET:HB2	1.94	0.50
2:i:80:GLN:OE1	3:AJ:209:ASN:N	2.44	0.50
2:n:82:LYS:HE2	3:AI:209:ASN:ND2	2.26	0.50
2:w:193:ASP:HB3	2:w:196:MET:HB2	1.94	0.50
3:1:72:VAL:HB	3:AK:28:ASN:ND2	2.26	0.50
3:4:184:LEU:HB3	3:4:192:TYR:HB3	1.93	0.50
3:ZA:37:GLN:HG2	3:ZA:79:ARG:HD3	1.93	0.50
3:ZC:28:ASN:OD1	4:ZH:52:VAL:CB	2.58	0.50
4:ZJ:237:ILE:H	4:ZJ:237:ILE:HD12	1.77	0.50
4:ZO:178:TYR:HA	4:ZO:201:VAL:HG12	1.92	0.50
4:ZP:6:ALA:HB1	4:ZP:389:ILE:HG13	1.94	0.50
4:ZP:391:THR:O	4:ZP:395:ILE:HG23	2.12	0.50
4:ZU:270:ASN:ND2	4:Za:286:PRO:HD2	2.27	0.50
4:Zd:317:LEU:HD11	4:Zd:356:LEU:HD21	1.93	0.50
4:Ze:362:GLU:OE1	4:Ze:362:GLU:N	2.38	0.50
5:AB:109:PRO:HG3	3:AG:197:SER:HA	1.92	0.50
5:AB:231:MET:SD	3:AG:260:LEU:CD1	3.00	0.50
3:AL:184:LEU:HB3	3:AL:192:TYR:HB3	1.94	0.50
9:Au:143:ARG:HH21	9:Au:180:LYS:HB3	1.77	0.50
9:Au:224:MET:O	9:Au:228:LEU:HB2	2.11	0.50
9:Av:86:ASN:HD21	10:A1:103:GLN:HA	1.77	0.50
10:Az:86:ILE:HG12	10:A5:102:MET:HE2	1.93	0.50
6:UK:98:LEU:HD22	6:UK:147:LEU:CD2	2.39	0.50
6:UK:162:PRO:O	6:UK:163:SER:C	2.55	0.50
6:WA:112:GLY:O	6:WA:115:LEU:HB3	2.12	0.50
6:WC:143:THR:OG1	6:WD:154:ARG:HG2	2.12	0.50
6:WC:181:GLU:O	6:WC:182:PRO:C	2.54	0.50
6:WV:120:LYS:HZ3	6:WV:123:ILE:CD1	2.13	0.50
1:C:102:THR:OG1	1:E:232:MET:CE	2.59	0.50
1:D:102:THR:OG1	1:F:232:MET:CE	2.59	0.50
1:E:102:THR:OG1	1:G:232:MET:CE	2.59	0.50
1:F:102:THR:OG1	1:H:232:MET:CE	2.59	0.50
1:U:102:THR:OG1	1:W:232:MET:CE	2.59	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:63:GLN:NE2	2:u:68:GLN:HE22	2.10	0.50
1:W:63:GLN:NE2	2:v:68:GLN:HE22	2.10	0.50
1:W:102:THR:OG1	1:Y:232:MET:CE	2.59	0.50
2:i:319:LEU:HD21	2:j:264:MET:CE	2.25	0.50
2:o:193:ASP:HB3	2:o:196:MET:HB2	1.94	0.50
2:p:198:GLN:NE2	2:q:234:ARG:NH1	2.60	0.50
2:q:193:ASP:HB3	2:q:196:MET:HB2	1.94	0.50
2:r:193:ASP:HB3	2:r:196:MET:HB2	1.94	0.50
2:s:193:ASP:HB3	2:s:196:MET:HB2	1.94	0.50
2:u:193:ASP:CG	2:v:23:ARG:HH22	2.19	0.50
3:2:227:ALA:HA	3:ZD:257:LEU:HD21	1.93	0.50
3:8:227:ALA:CB	4:ZJ:399:LEU:CD2	2.90	0.50
3:ZA:122:VAL:O	4:ZF:322:ASN:OD1	2.30	0.50
3:ZD:40:VAL:HG23	3:ZD:75:VAL:HB	1.94	0.50
4:ZO:102:LEU:HD21	4:ZO:106:ARG:HD2	1.93	0.50
4:ZY:27:SER:O	4:ZY:364:SER:OG	2.30	0.50
4:Zb:373:VAL:O	4:Zb:377:VAL:HG23	2.12	0.50
4:Zc:188:ASP:OD1	4:Zc:192:ASN:N	2.44	0.50
4:Zf:319:ASN:OD1	4:Zf:320:PHE:N	2.44	0.50
3:AJ:50:ARG:HD3	6:BP:322:PRO:HD3	1.94	0.50
6:AZ:235:LEU:HB3	6:Aa:244:ARG:HH22	1.75	0.50
6:Ac:256:ILE:HG13	6:Ac:257:VAL:N	2.26	0.50
9:Av:158:PRO:HB2	6:WT:166:VAL:HG21	1.93	0.50
9:Ay:167:MET:HG3	9:Ay:171:LEU:HG	1.93	0.50
6:UI:162:PRO:O	6:UI:163:SER:C	2.55	0.50
6:UL:162:PRO:O	6:UL:163:SER:C	2.55	0.50
6:WD:149:PRO:HG2	6:WD:190:GLN:NE2	2.23	0.50
6:WU:202:VAL:HB	6:WU:205:LEU:HB2	1.94	0.50
6:WV:200:SER:OG	6:WW:175:SER:HB2	2.11	0.50
6:BU:256:ILE:HG13	6:BU:257:VAL:N	2.26	0.50
1:A:102:THR:OG1	1:C:232:MET:CE	2.59	0.50
1:B:63:GLN:NE2	2:a:68:GLN:HE22	2.10	0.50
1:B:232:MET:CE	1:Z:102:THR:OG1	2.59	0.50
1:H:102:THR:OG1	1:J:232:MET:CE	2.59	0.50
1:T:63:GLN:NE2	2:s:68:GLN:HE22	2.10	0.50
1:U:63:GLN:NE2	2:t:68:GLN:HE22	2.10	0.50
1:V:102:THR:OG1	1:X:232:MET:CE	2.59	0.50
2:f:193:ASP:CG	2:g:23:ARG:HH22	2.19	0.50
2:i:198:GLN:NE2	2:j:234:ARG:NH1	2.60	0.50
2:o:198:GLN:NE2	2:p:234:ARG:NH1	2.60	0.50
2:p:193:ASP:HB3	2:p:196:MET:HB2	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:t:193:ASP:HB3	2:t:196:MET:HB2	1.94	0.50
3:5:76:ALA:HB1	3:ZA:64:SER:O	2.12	0.50
3:ZB:5:LEU:O	3:ZB:9:LYS:HG3	2.11	0.50
4:ZG:300:VAL:HG13	4:ZG:312:LEU:HB2	1.93	0.50
4:ZH:397:ASN:OD1	4:ZH:401:ASN:ND2	2.45	0.50
4:ZN:102:LEU:O	4:ZS:322:ASN:ND2	2.44	0.50
4:ZO:129:GLN:O	4:ZO:129:GLN:HG3	2.11	0.50
4:ZT:337:THR:OG1	4:ZT:338:GLN:N	2.44	0.50
4:ZV:314:GLN:NE2	4:ZV:347:THR:OG1	2.44	0.50
5:AB:147:ASN:O	5:AB:148:PRO:C	2.54	0.50
5:AC:174:SER:OG	5:AC:176:ASP:OD1	2.29	0.50
5:AE:101:ARG:NH1	5:AE:207:GLU:OE1	2.45	0.50
3:AH:129:VAL:HG12	3:AH:135:GLN:HA	1.93	0.50
3:AM:19:MET:HB2	3:AM:236:VAL:HG11	1.93	0.50
6:Ag:256:ILE:HG13	6:Ag:257:VAL:N	2.26	0.50
6:AO:294:ARG:HD2	6:AO:367:GLU:OE1	2.12	0.50
6:AP:294:ARG:HD2	6:AP:367:GLU:OE1	2.12	0.50
8:At:185:MET:HE3	8:At:188:LEU:HD22	1.94	0.50
9:Au:160:GLN:O	6:WP:165:PHE:HA	2.12	0.50
9:Av:75:ARG:NH2	9:Av:84:PRO:O	2.44	0.50
11:A9:123:LEU:HD23	12:BD:132:LEU:HD11	1.92	0.50
6:UP:159:MET:SD	6:UP:159:MET:N	2.82	0.50
6:WS:197:LEU:HA	6:WT:175:SER:OG	2.11	0.50
6:BX:256:ILE:HG13	6:BX:257:VAL:N	2.26	0.50
1:A:232:MET:CE	1:Y:102:THR:OG1	2.59	0.49
1:B:102:THR:OG1	1:D:232:MET:CE	2.59	0.49
1:G:102:THR:OG1	1:I:232:MET:CE	2.59	0.49
1:X:102:THR:OG1	1:Z:232:MET:CE	2.59	0.49
2:f:193:ASP:HB3	2:f:196:MET:HB2	1.94	0.49
2:j:198:GLN:NE2	2:k:234:ARG:NH1	2.60	0.49
2:n:193:ASP:HB3	2:n:196:MET:HB2	1.94	0.49
2:u:193:ASP:HB3	2:u:196:MET:HB2	1.94	0.49
3:1:122:VAL:O	3:6:180:ASN:ND2	2.35	0.49
3:3:185:GLU:OE1	3:8:51:GLN:NE2	2.45	0.49
3:4:123:ASP:OD1	3:4:127:GLN:N	2.45	0.49
3:7:52:PRO:HB3	3:7:65:GLY:H	1.77	0.49
3:7:56:SER:O	3:AF:153:ARG:N	2.39	0.49
3:7:151:ILE:HG12	3:7:157:VAL:HG22	1.94	0.49
3:ZE:85:ASN:ND2	4:ZP:50:LEU:CD2	2.75	0.49
4:ZF:99:GLN:HG2	4:ZF:111:MET:HE2	1.93	0.49
4:ZK:34:SER:HB3	4:ZK:366:VAL:HG12	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZO:80:ASN:OD1	4:ZO:81:GLY:N	2.45	0.49
4:ZO:141:ASN:O	4:ZO:142:THR:C	2.55	0.49
4:ZX:208:TRP:NE1	4:ZX:268:GLN:OE1	2.36	0.49
4:Zh:391:THR:O	4:Zh:395:ILE:HG22	2.12	0.49
3:AM:2:ILE:HG13	3:AM:254:LEU:HD21	1.93	0.49
6:AR:256:ILE:HG13	6:AR:257:VAL:N	2.26	0.49
6:AS:294:ARG:HD2	6:AS:367:GLU:OE1	2.12	0.49
6:AT:294:ARG:HD2	6:AT:367:GLU:OE1	2.12	0.49
6:Ap:294:ARG:HD2	6:Ap:367:GLU:OE1	2.12	0.49
7:Ar:15:LYS:NZ	6:WC:121:PHE:CE1	2.67	0.49
9:Av:144:GLU:HG2	6:WS:166:VAL:HG22	1.94	0.49
9:Ax:161:GLY:C	9:Ax:163:GLU:H	2.20	0.49
6:UJ:162:PRO:O	6:UJ:163:SER:C	2.55	0.49
6:WQ:142:ARG:O	6:WQ:146:THR:HG23	2.13	0.49
6:WQ:163:SER:HB3	6:WQ:166:VAL:HG23	1.94	0.49
6:WQ:202:VAL:HB	6:WQ:205:LEU:HB2	1.94	0.49
12:BD:106:MET:O	12:BD:110:ARG:HG2	2.12	0.49
6:BR:294:ARG:HD2	6:BR:367:GLU:OE1	2.12	0.49
6:BU:294:ARG:HD2	6:BU:367:GLU:OE1	2.12	0.49
6:BW:294:ARG:HD2	6:BW:367:GLU:OE1	2.12	0.49
6:BX:294:ARG:HD2	6:BX:367:GLU:OE1	2.12	0.49
1:X:63:GLN:NE2	2:w:68:GLN:HE22	2.10	0.49
2:k:198:GLN:NE2	2:l:234:ARG:NH1	2.60	0.49
2:m:193:ASP:HB3	2:m:196:MET:HB2	1.94	0.49
2:o:78:ASN:ND2	3:AI:169:GLN:HE22	2.05	0.49
2:t:193:ASP:CG	2:u:23:ARG:HH22	2.19	0.49
2:u:198:GLN:NE2	2:v:234:ARG:NH1	2.60	0.49
3:2:58:GLU:HG2	5:AA:160:ARG:NH1	2.27	0.49
3:5:7:ILE:HG23	3:5:71:GLY:HA2	1.93	0.49
3:6:46:TYR:HA	3:6:69:GLY:HA2	1.93	0.49
3:ZE:240:TYR:CD2	4:ZJ:395:ILE:CG2	2.80	0.49
4:ZJ:171:SER:O	4:ZJ:177:SER:OG	2.28	0.49
4:ZS:116:LEU:HD21	4:ZS:315:ILE:HD13	1.94	0.49
4:Zf:126:PRO:HB2	4:Zf:311:VAL:HG12	1.94	0.49
3:AG:241:GLU:OE1	3:AM:258:THR:OG1	2.26	0.49
6:Af:294:ARG:HG2	11:A8:66:THR:OG1	2.11	0.49
6:Am:256:ILE:HG13	6:Am:257:VAL:N	2.26	0.49
6:Ao:294:ARG:HD2	6:Ao:367:GLU:OE1	2.13	0.49
6:AQ:256:ILE:HG13	6:AQ:257:VAL:N	2.26	0.49
6:AQ:294:ARG:HD2	6:AQ:367:GLU:OE1	2.13	0.49
10:A5:55:GLN:HG2	10:A5:71:VAL:HG22	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:A0:46:ALA:O	11:A0:50:LYS:HG2	2.11	0.49
11:A0:66:THR:HG23	6:BX:365:ASN:ND2	2.27	0.49
6:UI:129:GLN:O	6:UI:133:GLN:N	2.29	0.49
6:UM:98:LEU:HD22	6:UM:147:LEU:CD2	2.39	0.49
6:UM:162:PRO:O	6:UM:163:SER:C	2.55	0.49
6:UN:162:PRO:O	6:UN:163:SER:C	2.55	0.49
6:WB:187:ASP:OD1	6:WB:190:GLN:HG3	2.12	0.49
6:WL:145:GLU:O	6:WL:146:THR:C	2.53	0.49
6:WN:202:VAL:HB	6:WN:205:LEU:HB2	1.94	0.49
6:BS:294:ARG:HD2	6:BS:367:GLU:OE1	2.12	0.49
6:BT:256:ILE:HG13	6:BT:257:VAL:N	2.26	0.49
6:BV:294:ARG:HD2	6:BV:367:GLU:OE1	2.12	0.49
1:S:63:GLN:NE2	2:r:68:GLN:HE22	2.10	0.49
2:g:193:ASP:HB3	2:g:196:MET:HB2	1.94	0.49
2:l:193:ASP:HB3	2:l:196:MET:HB2	1.94	0.49
3:2:66:LEU:HD12	3:AL:77:THR:HG23	1.94	0.49
3:ZB:151:ILE:HG23	3:ZB:157:VAL:HG22	1.93	0.49
4:ZL:84:ARG:HH12	4:ZL:92:VAL:HG22	1.77	0.49
4:ZQ:65:THR:HA	4:Zb:50:LEU:HD13	1.94	0.49
4:ZT:396:LEU:O	4:ZT:400:VAL:HG23	2.12	0.49
4:ZW:210:VAL:O	4:ZW:227:SER:OG	2.23	0.49
5:AA:241:GLU:OE2	11:A6:106:ARG:NH1	2.45	0.49
5:AC:229:MET:HG2	12:BD:102:MET:HE3	1.94	0.49
5:AD:215:GLU:HG3	3:AJ:9:LYS:HZ2	1.77	0.49
5:AE:154:THR:O	5:AE:155:VAL:C	2.55	0.49
3:AH:44:LEU:CD2	12:BC:78:TYR:CG	2.95	0.49
6:AS:256:ILE:HG13	6:AS:257:VAL:N	2.26	0.49
6:Af:297:GLN:HE22	11:A8:76:GLN:N	2.08	0.49
6:UN:73:MET:HE1	6:UN:99:ARG:HD2	1.95	0.49
6:UN:159:MET:N	6:UN:159:MET:SD	2.82	0.49
6:UP:98:LEU:HD22	6:UP:147:LEU:CD2	2.39	0.49
6:WB:114:GLU:O	6:WB:115:LEU:C	2.55	0.49
6:WG:206:PRO:O	6:WG:207:PRO:C	2.56	0.49
6:BS:256:ILE:HG13	6:BS:257:VAL:N	2.26	0.49
6:BT:294:ARG:HD2	6:BT:367:GLU:OE1	2.13	0.49
2:a:260:GLY:HA2	2:a:346:MET:HE1	1.94	0.49
2:b:198:GLN:NE2	2:c:234:ARG:NH1	2.60	0.49
2:c:198:GLN:NE2	2:d:234:ARG:NH1	2.60	0.49
2:d:198:GLN:NE2	2:e:234:ARG:NH1	2.60	0.49
2:h:193:ASP:HB3	2:h:196:MET:HB2	1.94	0.49
2:h:198:GLN:NE2	2:i:234:ARG:NH1	2.60	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:193:ASP:HB3	2:k:196:MET:HB2	1.94	0.49
2:y:260:GLY:HA2	2:y:346:MET:HE1	1.95	0.49
2:z:260:GLY:HA2	2:z:346:MET:HE1	1.95	0.49
3:2:55:GLN:HB3	5:AA:144:SER:OG	2.11	0.49
3:ZC:20:ASP:OD1	4:ZH:2:SER:HB2	2.12	0.49
3:ZE:207:GLY:O	4:ZK:89:ASN:ND2	2.46	0.49
4:ZK:175:ALA:HA	4:ZK:178:TYR:CZ	2.47	0.49
4:ZN:139:ILE:HA	4:ZN:312:LEU:HD22	1.93	0.49
4:ZP:181:LYS:HD3	4:Za:129:GLN:HE22	1.77	0.49
4:ZS:322:ASN:OD1	4:ZS:325:GLY:N	2.45	0.49
4:ZV:147:LYS:NZ	4:ZV:148:SER:O	2.43	0.49
4:ZV:387:GLN:CD	4:Zb:400:VAL:HG13	2.38	0.49
4:Zg:159:ASN:ND2	4:Zg:161:THR:OG1	2.44	0.49
4:Zh:2:SER:C	4:Zh:392:GLN:HE22	2.21	0.49
5:AA:26:LEU:HD22	3:AF:242:ILE:HG21	1.94	0.49
5:AA:54:ARG:HE	12:BB:22:ASN:ND2	2.10	0.49
5:AA:202:MET:HE2	3:AL:73:ARG:CZ	2.42	0.49
5:AB:188:GLU:HG3	5:AB:189:ARG:HG2	1.94	0.49
5:AC:48:GLY:HA3	6:BM:324:ASN:ND2	2.28	0.49
5:AC:243:ARG:HD2	12:BD:113:GLN:CD	2.38	0.49
6:AU:294:ARG:HD2	6:AU:367:GLU:OE1	2.12	0.49
6:Ae:256:ILE:HG13	6:Ae:257:VAL:N	2.26	0.49
9:Au:151:ALA:HB3	6:WP:164:LEU:HD11	1.93	0.49
9:Au:232:TRP:NE1	9:Au:236:MET:HE3	2.27	0.49
9:Ay:40:LEU:HD23	11:A0:130:MET:HE1	1.94	0.49
6:UN:208:GLY:CA	6:WR:187:ASP:OD1	2.61	0.49
6:UO:103:GLN:CG	6:WU:182:PRO:HB3	2.43	0.49
6:WH:202:VAL:HB	6:WH:205:LEU:HB2	1.95	0.49
6:WO:206:PRO:O	6:WO:207:PRO:C	2.56	0.49
1:J:63:GLN:NE2	2:i:68:GLN:HE22	2.10	0.49
1:Y:63:GLN:NE2	2:x:68:GLN:HE22	2.10	0.49
2:a:198:GLN:NE2	2:b:234:ARG:NH1	2.60	0.49
2:b:260:GLY:HA2	2:b:346:MET:HE1	1.94	0.49
2:e:193:ASP:CG	2:f:23:ARG:HH22	2.19	0.49
2:e:198:GLN:NE2	2:f:234:ARG:NH1	2.60	0.49
2:i:193:ASP:HB3	2:i:196:MET:HB2	1.94	0.49
2:n:198:GLN:NE2	2:o:234:ARG:NH1	2.60	0.49
2:w:260:GLY:HA2	2:w:346:MET:HE1	1.94	0.49
3:0:51:GLN:NE2	3:0:65:GLY:HA3	2.27	0.49
3:2:70:THR:HG22	3:2:71:GLY:H	1.77	0.49
3:6:230:LEU:HA	3:6:233:MET:HG3	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZG:160:SER:HA	4:ZG:268:GLN:HE21	1.76	0.49
4:ZL:30:TYR:HD1	4:ZL:363:ALA:HA	1.78	0.49
4:ZM:269:GLN:OE1	4:ZS:146:ALA:N	2.45	0.49
4:ZM:390:LYS:HB2	4:ZR:402:LEU:HD22	1.94	0.49
4:ZU:141:ASN:HA	4:ZU:289:LEU:HD13	1.94	0.49
4:Zb:96:ARG:HG3	4:Zb:334:TRP:HZ3	1.76	0.49
4:Zb:179:ASN:OD1	4:Zb:202:LYS:N	2.35	0.49
4:Zc:139:ILE:HA	4:Zc:312:LEU:HD22	1.93	0.49
4:Zc:317:LEU:HD21	4:Zc:356:LEU:HD21	1.95	0.49
5:AD:91:GLN:HB2	5:AD:121:ILE:HD11	1.94	0.49
6:An:294:ARG:HD2	6:An:367:GLU:OE1	2.13	0.49
7:As:77:VAL:CG1	9:Ay:229:VAL:HG21	2.42	0.49
9:Av:66:ARG:NH2	9:Av:178:GLU:OE1	2.45	0.49
9:Ay:241:GLN:CG	6:WG:164:LEU:O	2.47	0.49
6:UN:69:GLN:HE22	6:WS:182:PRO:HG2	1.77	0.49
6:WA:213:VAL:CG2	6:WW:193:ALA:HB1	2.42	0.49
6:WE:206:PRO:O	6:WE:207:PRO:C	2.56	0.49
6:WG:219:LEU:HD21	6:WG:222:GLN:O	2.13	0.49
6:WN:145:GLU:O	6:WN:147:LEU:N	2.46	0.49
6:WO:142:ARG:O	6:WO:146:THR:HG23	2.11	0.49
6:WQ:206:PRO:O	6:WQ:207:PRO:C	2.56	0.49
6:WS:202:VAL:HB	6:WS:205:LEU:HB2	1.94	0.49
6:BV:256:ILE:HG13	6:BV:257:VAL:N	2.26	0.49
1:E:63:GLN:NE2	2:d:68:GLN:HE22	2.10	0.49
2:a:234:ARG:NH1	2:z:198:GLN:NE2	2.60	0.49
2:f:198:GLN:NE2	2:g:234:ARG:NH1	2.60	0.49
2:g:78:ASN:ND2	3:AK:125:ASN:CG	2.71	0.49
2:g:198:GLN:NE2	2:h:234:ARG:NH1	2.60	0.49
2:j:193:ASP:HB3	2:j:196:MET:HB2	1.94	0.49
2:l:198:GLN:NE2	2:m:234:ARG:NH1	2.60	0.49
2:s:193:ASP:CG	2:t:23:ARG:HH22	2.19	0.49
2:v:198:GLN:NE2	2:w:234:ARG:NH1	2.60	0.49
2:x:260:GLY:HA2	2:x:346:MET:HE1	1.95	0.49
3:9:252:GLN:O	3:9:256:LYS:HG2	2.12	0.49
3:ZA:77:THR:H	4:ZF:47:LYS:CD	2.22	0.49
3:ZB:172:GLN:HE22	3:ZB:205:THR:HG23	1.78	0.49
3:ZB:235:GLN:HE22	4:ZH:3:PHE:HB3	1.77	0.49
3:ZE:49:ILE:HB	3:ZE:66:LEU:HB3	1.93	0.49
4:ZH:175:ALA:HA	4:ZH:178:TYR:CZ	2.47	0.49
4:ZT:17:LEU:HD13	4:ZY:395:ILE:HD11	1.95	0.49
4:ZT:188:ASP:HA	4:ZT:257:ALA:HB2	1.92	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZT:210:VAL:HB	4:ZT:228:THR:HG22	1.94	0.49
4:ZU:65:THR:HA	4:Zf:50:LEU:HD13	1.94	0.49
4:ZU:182:GLY:HA2	4:Zf:131:GLY:HA3	1.93	0.49
4:ZW:102:LEU:O	4:Zb:322:ASN:ND2	2.46	0.49
4:Za:348:ALA:HB1	4:Za:355:LYS:HA	1.94	0.49
4:Zb:322:ASN:OD1	4:Zb:325:GLY:N	2.45	0.49
5:AD:104:ASN:HD21	3:AI:38:ARG:HH21	1.59	0.49
3:AF:185:GLU:HB3	3:AF:193:ILE:HG23	1.95	0.49
3:AF:238:ARG:NH2	3:AL:251:ASP:OD1	2.40	0.49
8:At:12:TRP:CZ3	10:A5:34:PHE:HB2	2.48	0.49
9:Au:101:MET:HE1	9:Au:137:PHE:CZ	2.47	0.49
9:Ax:59:LEU:O	9:Ax:65:THR:OG1	2.29	0.49
6:UJ:73:MET:HE3	6:UJ:99:ARG:CD	2.41	0.49
6:WD:200:SER:O	6:WE:158:ALA:HB3	2.10	0.49
6:WE:202:VAL:HB	6:WE:205:LEU:HB2	1.95	0.49
6:WH:206:PRO:O	6:WH:207:PRO:C	2.55	0.49
6:WL:202:VAL:HB	6:WL:205:LEU:HB2	1.94	0.49
6:WM:197:LEU:HA	6:WN:175:SER:CB	2.42	0.49
1:I:63:GLN:NE2	2:h:68:GLN:HE22	2.10	0.49
1:K:63:GLN:NE2	2:j:68:GLN:HE22	2.10	0.49
1:N:63:GLN:NE2	2:m:68:GLN:HE22	2.10	0.49
2:a:276:ALA:HB2	2:a:319:LEU:HD12	1.95	0.49
2:x:276:ALA:HB2	2:x:319:LEU:HD12	1.95	0.49
2:y:198:GLN:NE2	2:z:234:ARG:NH1	2.60	0.49
2:y:276:ALA:HB2	2:y:319:LEU:HD12	1.95	0.49
2:z:276:ALA:HB2	2:z:319:LEU:HD12	1.95	0.49
3:0:80:LEU:HD13	3:AJ:91:ASN:HB2	1.94	0.49
3:4:76:ALA:HB1	3:9:64:SER:O	2.13	0.49
3:9:175:LEU:HD13	3:9:206:PRO:HG3	1.93	0.49
3:ZB:50:ARG:HB2	3:ZB:66:LEU:H	1.76	0.49
3:ZB:163:GLY:O	3:ZB:165:ALA:N	2.46	0.49
3:ZC:162:GLN:OE1	4:ZH:351:GLY:O	2.30	0.49
4:ZN:156:ILE:HD12	4:ZN:276:ILE:HG13	1.94	0.49
4:ZY:21:GLY:HA2	4:ZY:24:ILE:HG22	1.94	0.49
4:Za:68:ASN:OD1	4:Za:68:ASN:N	2.44	0.49
4:Zd:389:ILE:O	4:Zd:390:LYS:C	2.55	0.49
4:Zh:386:ALA:O	4:Zh:389:ILE:HG22	2.13	0.49
5:AD:188:GLU:HG3	5:AD:189:ARG:HG2	1.95	0.49
3:AI:129:VAL:HG12	3:AI:135:GLN:HA	1.94	0.49
3:AL:198:SER:O	3:AL:198:SER:OG	2.27	0.49
6:AY:294:ARG:CD	11:A9:68:THR:CG2	2.91	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ad:266:VAL:HG22	6:Ad:387:VAL:HG22	1.95	0.49
6:Ai:256:ILE:HG13	6:Ai:257:VAL:N	2.26	0.49
6:Am:294:ARG:HD2	6:Am:367:GLU:OE1	2.12	0.49
6:UK:73:MET:HE3	6:UK:99:ARG:CD	2.41	0.49
6:UN:80:ALA:CB	6:UN:83:SER:HB3	2.43	0.49
6:WC:128:GLU:HG2	6:WC:129:GLN:N	2.28	0.49
6:WF:202:VAL:HB	6:WF:205:LEU:HB2	1.94	0.49
6:WS:206:PRO:O	6:WS:207:PRO:C	2.56	0.49
6:WU:206:PRO:O	6:WU:207:PRO:C	2.55	0.49
6:BT:266:VAL:HG22	6:BT:387:VAL:HG22	1.95	0.49
1:G:63:GLN:NE2	2:f:68:GLN:HE22	2.10	0.49
1:H:63:GLN:NE2	2:g:68:GLN:HE22	2.10	0.49
1:L:63:GLN:NE2	2:k:68:GLN:HE22	2.10	0.49
1:M:63:GLN:NE2	2:l:68:GLN:HE22	2.10	0.49
1:Q:63:GLN:NE2	2:p:68:GLN:HE22	2.10	0.49
2:b:276:ALA:HB2	2:b:319:LEU:HD12	1.95	0.49
2:c:260:GLY:HA2	2:c:346:MET:HE1	1.95	0.49
2:k:276:ALA:HB2	2:k:319:LEU:HD12	1.95	0.49
2:v:260:GLY:HA2	2:v:346:MET:HE1	1.94	0.49
3:3:151:ILE:HG12	3:3:157:VAL:HG22	1.93	0.49
3:6:10:THR:OG1	3:6:71:GLY:HA3	2.12	0.49
3:ZB:29:VAL:O	3:ZB:222:SER:OG	2.31	0.49
3:ZB:227:ALA:HB1	4:ZM:399:LEU:HD21	1.95	0.49
3:ZD:238:ARG:HH12	4:ZJ:397:ASN:ND2	2.11	0.49
4:ZK:228:THR:HB	4:ZK:244:VAL:HG11	1.95	0.49
4:ZZ:373:VAL:HG11	4:Zf:7:VAL:HG22	1.95	0.49
4:Zg:196:MET:HE3	4:Zg:248:THR:HG22	1.95	0.49
5:AB:225:ARG:NH2	3:AH:255:GLN:CD	2.61	0.49
5:AC:21:VAL:CG2	3:AH:68:ILE:CG2	2.77	0.49
3:AH:126:GLY:HA2	3:AM:179:MET:HE3	1.95	0.49
3:AI:36:ARG:NH2	3:AI:229:GLU:OE2	2.45	0.49
6:Ao:303:GLN:CD	6:BI:319:GLN:OE1	2.56	0.49
9:Aw:162:PRO:HD2	6:WA:167:ARG:HH21	1.77	0.49
10:A1:82:MET:HE3	11:A6:133:VAL:CG2	2.43	0.49
11:A6:17:ASN:HD22	11:A6:57:ARG:NH1	2.10	0.49
11:A9:102:MET:HB3	11:A9:106:ARG:HH21	1.77	0.49
6:WA:112:GLY:HA2	6:WA:135:ALA:CA	2.27	0.49
6:WD:145:GLU:O	6:WD:147:LEU:N	2.46	0.49
6:WE:112:GLY:O	6:WE:115:LEU:HB3	2.12	0.49
6:WF:116:LEU:HD22	6:WF:131:ASN:HA	1.94	0.49
6:WF:193:ALA:HB1	6:WG:213:VAL:HG11	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WH:193:ALA:CB	6:WI:213:VAL:CG1	2.88	0.49
6:WK:202:VAL:HB	6:WK:205:LEU:HB2	1.95	0.49
6:WP:144:ILE:O	6:WP:147:LEU:HB2	2.13	0.49
6:BU:266:VAL:HG22	6:BU:387:VAL:HG22	1.95	0.49
1:F:63:GLN:NE2	2:e:68:GLN:HE22	2.10	0.49
1:Z:63:GLN:NE2	2:y:68:GLN:HE22	2.10	0.49
2:l:276:ALA:HB2	2:l:319:LEU:HD12	1.95	0.49
2:n:276:ALA:HB2	2:n:319:LEU:HD12	1.95	0.49
2:r:193:ASP:CG	2:s:23:ARG:HH22	2.19	0.49
3:0:231:VAL:O	3:0:235:GLN:HG3	2.12	0.49
3:1:142:ILE:HD11	3:1:149:ILE:HD12	1.93	0.49
3:ZB:240:TYR:CE2	4:ZG:395:ILE:HG21	2.31	0.49
3:ZC:31:THR:HG22	4:ZH:39:PHE:HB2	1.93	0.49
4:ZN:233:ASN:HD21	4:ZN:237:ILE:HB	1.77	0.49
4:ZR:199:TYR:HB2	4:ZR:211:TYR:HB2	1.95	0.49
4:ZT:69:THR:HG21	4:ZT:361:LEU:HD12	1.93	0.49
4:ZT:95:SER:OG	4:ZT:332:ASN:O	2.23	0.49
4:ZU:285:LYS:O	4:ZU:306:ASN:ND2	2.42	0.49
4:ZX:41:ASP:OD1	4:ZX:41:ASP:N	2.42	0.49
4:ZX:195:ASP:OD2	4:ZX:216:SER:OG	2.31	0.49
4:Zb:144:MET:SD	4:Zb:306:ASN:ND2	2.85	0.49
3:AF:238:ARG:HG3	3:AL:254:LEU:HD13	1.95	0.49
3:AH:44:LEU:HD21	12:BC:78:TYR:CB	2.42	0.49
3:AM:82:SER:HB2	3:AM:223:ASN:HD21	1.78	0.49
6:AV:294:ARG:HD2	6:AV:367:GLU:OE1	2.12	0.49
6:Al:294:ARG:CD	11:A7:68:THR:HG21	2.42	0.49
6:Ao:278:THR:HG22	10:Az:7:ILE:HG21	1.81	0.49
7:Ar:36:SER:OG	7:As:44:ILE:HG23	2.12	0.49
6:UJ:80:ALA:CB	6:UJ:83:SER:HB3	2.43	0.49
6:UK:80:ALA:CB	6:UK:83:SER:HB3	2.43	0.49
6:UL:80:ALA:CB	6:UL:83:SER:HB3	2.43	0.49
6:UP:73:MET:HE1	6:UP:99:ARG:HD2	1.95	0.49
6:UP:80:ALA:CB	6:UP:83:SER:HB3	2.43	0.49
6:WC:197:LEU:HD11	6:WD:156:HIS:HD2	1.78	0.49
6:WF:206:PRO:O	6:WF:207:PRO:C	2.56	0.49
6:WI:206:PRO:O	6:WI:207:PRO:C	2.56	0.49
6:WS:200:SER:O	6:WT:158:ALA:HB3	2.04	0.49
1:H:212:TYR:HA	1:H:215:GLU:HG3	1.95	0.49
2:k:260:GLY:HA2	2:k:346:MET:HE1	1.94	0.49
2:m:198:GLN:NE2	2:n:234:ARG:NH1	2.60	0.49
2:m:276:ALA:HB2	2:m:319:LEU:HD12	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:w:276:ALA:HB2	2:w:319:LEU:HD12	1.95	0.49
3:4:35:LYS:HE3	3:4:81:HIS:HA	1.95	0.49
3:9:184:LEU:HB3	3:9:192:TYR:HB3	1.95	0.49
3:ZD:184:LEU:HB3	3:ZD:192:TYR:HB3	1.95	0.49
3:ZD:185:GLU:CD	4:ZI:46:SER:CB	2.66	0.49
4:ZH:24:ILE:O	4:ZH:27:SER:OG	2.25	0.49
4:ZP:159:ASN:OD1	4:ZP:161:THR:N	2.46	0.49
4:ZT:243:THR:HG22	4:ZT:262:SER:HB2	1.94	0.49
4:ZT:380:ARG:HD2	4:ZZ:396:LEU:HB3	1.94	0.49
4:Zc:107:ASN:ND2	4:Zc:138:THR:OG1	2.46	0.49
5:AA:217:MET:CE	3:AL:257:LEU:O	2.60	0.49
5:AC:24:SER:N	3:AH:7:ILE:HG21	2.27	0.49
5:AC:70:GLN:OE1	3:AN:2:ILE:O	2.31	0.49
5:AE:228:GLU:OE2	3:AJ:256:LYS:CE	2.61	0.49
6:Ac:266:VAL:HG22	6:Ac:387:VAL:HG22	1.95	0.49
6:Ae:266:VAL:HG22	6:Ae:387:VAL:HG22	1.95	0.49
6:Al:294:ARG:HD2	6:Al:367:GLU:OE1	2.12	0.49
9:Au:179:LEU:HD22	9:Av:84:PRO:HG3	1.95	0.49
6:UJ:98:LEU:HD22	6:UJ:147:LEU:CD2	2.39	0.49
6:UM:80:ALA:CB	6:UM:83:SER:HB3	2.43	0.49
6:UN:98:LEU:HD22	6:UN:147:LEU:CD2	2.39	0.49
6:WB:202:VAL:HB	6:WB:205:LEU:HB2	1.94	0.49
6:WF:145:GLU:HG2	6:WF:152:SER:HA	1.95	0.49
6:WS:197:LEU:HD11	6:WT:156:HIS:HD2	1.78	0.49
6:WW:115:LEU:HA	6:WW:118:GLN:OE1	2.13	0.49
1:C:63:GLN:NE2	2:b:68:GLN:HE22	2.10	0.48
1:D:63:GLN:NE2	2:c:68:GLN:HE22	2.10	0.48
1:D:212:TYR:HA	1:D:215:GLU:HG3	1.95	0.48
1:E:212:TYR:HA	1:E:215:GLU:HG3	1.95	0.48
2:d:193:ASP:CG	2:e:23:ARG:HH22	2.19	0.48
2:j:260:GLY:HA2	2:j:346:MET:HE1	1.95	0.48
2:j:276:ALA:HB2	2:j:319:LEU:HD12	1.95	0.48
2:u:260:GLY:HA2	2:u:346:MET:HE1	1.94	0.48
2:x:198:GLN:NE2	2:y:234:ARG:NH1	2.60	0.48
3:1:52:PRO:HG3	12:BF:80:PRO:CB	2.40	0.48
3:4:44:LEU:HB3	3:4:70:THR:HB	1.95	0.48
3:6:122:VAL:O	3:ZB:180:ASN:ND2	2.46	0.48
3:ZB:235:GLN:HE22	4:ZH:3:PHE:CB	2.25	0.48
4:ZG:27:SER:O	4:ZG:364:SER:OG	2.30	0.48
4:ZH:210:VAL:O	4:ZH:227:SER:N	2.45	0.48
4:ZK:204:LYS:HZ2	4:ZK:207:GLU:HG3	1.78	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZP:83:PHE:HB2	4:ZP:95:SER:O	2.13	0.48
4:ZS:103:ASP:OD2	4:ZS:105:ASN:N	2.44	0.48
4:ZS:188:ASP:HA	4:ZS:257:ALA:HB2	1.95	0.48
4:ZU:293:GLN:HE21	4:ZU:303:ASN:HD21	1.61	0.48
4:ZW:104:GLU:HG2	4:ZW:105:ASN:OD1	2.13	0.48
4:ZX:83:PHE:HB2	4:ZX:95:SER:O	2.13	0.48
4:Zb:293:GLN:NE2	4:Zb:303:ASN:OD1	2.45	0.48
4:Ze:178:TYR:HA	4:Ze:201:VAL:HG22	1.94	0.48
3:AJ:123:ASP:OD2	3:AJ:127:GLN:HB2	2.13	0.48
6:AV:266:VAL:HG22	6:AV:387:VAL:HG22	1.95	0.48
6:Ad:294:ARG:HD2	6:Ad:367:GLU:OE1	2.12	0.48
9:Au:92:LEU:HD13	9:Au:232:TRP:HZ2	1.77	0.48
9:Ax:42:VAL:HG13	10:A4:42:LEU:HD22	1.95	0.48
11:A9:49:LEU:O	11:A9:53:MET:HG2	2.13	0.48
6:WJ:200:SER:OG	6:WK:175:SER:HB2	2.13	0.48
1:A:63:GLN:NE2	2:z:68:GLN:HE22	2.10	0.48
1:C:212:TYR:HA	1:C:215:GLU:HG3	1.95	0.48
2:c:276:ALA:HB2	2:c:319:LEU:HD12	1.95	0.48
2:l:260:GLY:HA2	2:l:346:MET:HE1	1.95	0.48
2:m:260:GLY:HA2	2:m:346:MET:HE1	1.95	0.48
2:n:260:GLY:HA2	2:n:346:MET:HE1	1.94	0.48
2:o:276:ALA:HB2	2:o:319:LEU:HD12	1.95	0.48
2:u:56:PRO:HG3	2:v:77:THR:CG2	2.43	0.48
3:3:155:GLY:HA2	3:3:214:LEU:HD12	1.94	0.48
3:5:5:LEU:HD23	3:AN:235:GLN:HG3	1.95	0.48
3:8:34:PHE:HB3	3:8:222:SER:HB3	1.94	0.48
4:ZV:5:GLN:HB2	4:ZV:50:LEU:O	2.13	0.48
4:ZW:18:ASP:HB3	4:Zb:5:GLN:HE22	1.77	0.48
4:ZW:144:MET:SD	4:ZW:310:GLN:NE2	2.86	0.48
4:Zb:24:ILE:O	4:Zb:27:SER:OG	2.31	0.48
4:Zc:188:ASP:HA	4:Zc:257:ALA:HB2	1.95	0.48
3:AF:190:ASN:ND2	3:AK:42:GLU:HG3	2.28	0.48
3:AK:73:ARG:CD	12:BF:78:TYR:CE2	2.93	0.48
6:AW:294:ARG:HD2	6:AW:367:GLU:OE1	2.12	0.48
6:AY:372:ILE:CG2	10:A3:4:ILE:HG12	2.43	0.48
6:Aa:294:ARG:HD2	6:Aa:367:GLU:OE1	2.12	0.48
6:Ac:294:ARG:HD2	6:Ac:367:GLU:OE1	2.12	0.48
6:Af:365:ASN:CG	11:A8:72:HIS:ND1	2.70	0.48
6:Al:294:ARG:HH11	11:A7:68:THR:HG21	1.78	0.48
7:As:36:SER:OG	8:At:211:LEU:O	2.23	0.48
9:Au:130:GLY:O	9:Au:133:PRO:HD2	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Av:240:ALA:HB1	6:WR:165:PHE:HZ	1.78	0.48
9:Ay:73:LEU:HD13	9:Ay:186:GLY:HA3	1.94	0.48
6:WB:145:GLU:C	6:WB:147:LEU:H	2.22	0.48
6:WJ:206:PRO:O	6:WJ:207:PRO:C	2.56	0.48
6:BV:266:VAL:HG22	6:BV:387:VAL:HG22	1.95	0.48
1:G:212:TYR:HA	1:G:215:GLU:HG3	1.95	0.48
2:d:260:GLY:HA2	2:d:346:MET:HE1	1.95	0.48
2:i:260:GLY:HA2	2:i:346:MET:HE1	1.95	0.48
2:i:276:ALA:HB2	2:i:319:LEU:HD12	1.95	0.48
2:r:56:PRO:HG3	2:s:77:THR:CG2	2.44	0.48
2:s:56:PRO:HG3	2:t:77:THR:CG2	2.43	0.48
2:v:56:PRO:HG3	2:w:77:THR:CG2	2.43	0.48
2:v:276:ALA:HB2	2:v:319:LEU:HD12	1.95	0.48
2:w:198:GLN:NE2	2:x:234:ARG:NH1	2.60	0.48
2:x:56:PRO:HG3	2:y:77:THR:CG2	2.43	0.48
3:0:185:GLU:HB3	3:0:193:ILE:HG13	1.94	0.48
3:6:20:ASP:OD1	3:ZB:3:SER:HB3	2.14	0.48
3:7:34:PHE:HB3	3:7:222:SER:HB3	1.95	0.48
3:8:185:GLU:HG3	3:ZD:67:GLN:NE2	2.28	0.48
3:ZD:105:VAL:HA	3:ZD:136:VAL:HA	1.96	0.48
4:ZH:319:ASN:HB2	4:ZH:353:PHE:CE1	2.47	0.48
4:ZI:198:VAL:HG22	4:ZI:212:THR:HG22	1.95	0.48
4:ZK:248:THR:HG1	4:ZK:257:ALA:N	2.09	0.48
4:ZR:186:VAL:HG22	4:ZR:194:HIS:HB2	1.94	0.48
4:ZV:367:ASP:HB3	4:ZV:370:LYS:HD2	1.95	0.48
4:ZY:102:LEU:HD11	4:ZY:139:ILE:HD12	1.95	0.48
4:Zb:85:LEU:HD13	4:Zb:114:MET:HB3	1.94	0.48
4:Zb:331:ASP:HA	4:Zg:40:ALA:HB1	1.95	0.48
4:Zd:154:MET:HB2	4:Zd:279:THR:HG22	1.95	0.48
7:Ab:48:THR:HG21	9:Au:208:GLY:HA2	1.95	0.48
6:Ae:294:ARG:HD2	6:Ae:367:GLU:OE1	2.12	0.48
6:Aj:266:VAL:HG22	6:Aj:387:VAL:HG22	1.95	0.48
6:Aj:372:ILE:HD12	10:A1:11:ILE:CG2	2.28	0.48
6:AQ:276:GLU:CD	10:A5:11:ILE:HD11	2.37	0.48
11:A9:67:LEU:HD21	11:A9:74:PRO:HB3	1.94	0.48
6:UI:127:SER:O	6:UI:131:ASN:HB2	2.14	0.48
6:UJ:256:PRO:HD2	6:WC:187:ASP:HB3	1.94	0.48
12:BA:37:PRO:HD3	12:BF:51:VAL:HG13	1.95	0.48
6:WA:206:PRO:O	6:WA:207:PRO:C	2.56	0.48
6:WJ:202:VAL:HB	6:WJ:205:LEU:HB2	1.95	0.48
6:WK:132:TYR:CB	6:WL:126:PHE:HZ	2.19	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BC:94:PRO:HB2	12:BC:96:VAL:HG23	1.94	0.48
12:BC:97:ASP:O	12:BC:101:GLU:HG2	2.13	0.48
1:I:212:TYR:HA	1:I:215:GLU:HG3	1.95	0.48
1:P:63:GLN:NE2	2:o:68:GLN:HE22	2.10	0.48
2:o:56:PRO:HG3	2:p:77:THR:CG2	2.44	0.48
3:5:238:ARG:NH1	3:5:241:GLU:OE2	2.45	0.48
3:ZA:95:VAL:HG11	3:ZA:214:LEU:HD23	1.95	0.48
3:ZB:240:TYR:CE2	4:ZG:399:LEU:HD11	2.48	0.48
3:ZB:248:SER:HB3	4:ZG:402:LEU:HD22	1.94	0.48
4:ZP:122:THR:OG1	4:ZP:129:GLN:NE2	2.46	0.48
4:ZY:319:ASN:ND2	4:ZY:352:ASN:O	2.46	0.48
4:ZZ:180:LYS:HB3	4:ZZ:200:PHE:HB2	1.96	0.48
4:Zb:68:ASN:OD1	4:Zb:68:ASN:N	2.47	0.48
5:AA:232:LYS:HG2	12:BB:102:MET:CE	2.43	0.48
5:AA:237:VAL:HG22	12:BB:21:LEU:HD21	1.94	0.48
5:AD:11:ALA:HB3	5:AD:230:GLN:HG2	1.95	0.48
3:AM:35:LYS:NZ	3:AM:220:GLU:OE2	2.44	0.48
6:AR:294:ARG:HD2	6:AR:367:GLU:OE1	2.13	0.48
6:AW:266:VAL:HG22	6:AW:387:VAL:HG22	1.95	0.48
6:Af:266:VAL:HG22	6:Af:387:VAL:HG22	1.95	0.48
6:Af:294:ARG:HD2	6:Af:367:GLU:OE1	2.13	0.48
6:Af:365:ASN:HD21	11:A8:65:LEU:HD11	1.78	0.48
6:Ag:294:ARG:HD2	6:Ag:367:GLU:OE1	2.12	0.48
6:Ai:266:VAL:HG22	6:Ai:387:VAL:HG22	1.95	0.48
6:Ai:294:ARG:HD2	6:Ai:367:GLU:OE1	2.12	0.48
6:Ai:303:GLN:NE2	6:BK:319:GLN:HB3	2.25	0.48
8:At:114:VAL:HG21	9:Ax:211:MET:HE1	1.96	0.48
10:A3:99:VAL:O	10:A3:102:MET:HG2	2.13	0.48
11:A8:32:ASN:ND2	12:BC:51:VAL:HG12	2.28	0.48
6:Ul:80:ALA:CB	6:Ul:83:SER:HB3	2.43	0.48
6:UK:127:SER:O	6:UK:131:ASN:HB2	2.14	0.48
6:WK:143:THR:OG1	6:WL:156:HIS:NE2	1.94	0.48
6:WK:206:PRO:O	6:WK:207:PRO:C	2.56	0.48
6:WM:202:VAL:HB	6:WM:205:LEU:HB2	1.94	0.48
6:WM:206:PRO:O	6:WM:207:PRO:C	2.56	0.48
6:WW:202:VAL:HB	6:WW:205:LEU:HB2	1.95	0.48
1:B:212:TYR:HA	1:B:215:GLU:HG3	1.95	0.48
1:F:212:TYR:HA	1:F:215:GLU:HG3	1.95	0.48
1:O:63:GLN:NE2	2:n:68:GLN:HE22	2.10	0.48
1:Y:212:TYR:HA	1:Y:215:GLU:HG3	1.95	0.48
1:Z:212:TYR:HA	1:Z:215:GLU:HG3	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:23:ARG:HH22	2:z:193:ASP:CG	2.19	0.48
2:a:56:PRO:HG3	2:b:77:THR:CG2	2.44	0.48
2:d:56:PRO:HG3	2:e:77:THR:CG2	2.43	0.48
2:d:276:ALA:HB2	2:d:319:LEU:HD12	1.95	0.48
2:e:260:GLY:HA2	2:e:346:MET:HE1	1.94	0.48
2:h:260:GLY:HA2	2:h:346:MET:HE1	1.95	0.48
2:o:260:GLY:HA2	2:o:346:MET:HE1	1.95	0.48
2:q:193:ASP:CG	2:r:23:ARG:HH22	2.19	0.48
2:y:56:PRO:HG3	2:z:77:THR:CG2	2.44	0.48
3:4:22:ILE:HD11	3:4:232:ASN:HB3	1.95	0.48
3:8:42:GLU:CB	3:8:75:VAL:HG23	2.40	0.48
3:ZE:36:ARG:HB3	3:ZE:224:VAL:HG22	1.95	0.48
4:ZG:390:LYS:HB2	4:ZL:402:LEU:HD22	1.94	0.48
4:ZH:18:ASP:HB3	4:ZM:5:GLN:HE22	1.78	0.48
4:ZH:355:LYS:N	4:ZH:355:LYS:HD3	2.29	0.48
4:ZI:93:PHE:HB3	4:ZI:333:VAL:HG13	1.95	0.48
4:ZL:316:VAL:HG22	4:ZL:345:LEU:HD12	1.96	0.48
4:ZM:17:LEU:HD13	4:ZR:395:ILE:HD11	1.94	0.48
4:ZM:203:THR:OG1	4:ZM:207:GLU:OE1	2.23	0.48
4:ZR:180:LYS:HB3	4:ZR:200:PHE:HD1	1.79	0.48
4:ZS:201:VAL:HG22	4:ZS:209:ALA:HB3	1.96	0.48
4:ZY:373:VAL:HG11	4:Ze:7:VAL:HG22	1.94	0.48
4:Zg:3:PHE:O	4:Zg:7:VAL:HG22	2.13	0.48
4:Zg:95:SER:OG	4:Zg:332:ASN:O	2.19	0.48
5:AB:34:PHE:HB3	5:AB:209:SER:HB3	1.96	0.48
3:AN:2:ILE:HG21	3:AN:254:LEU:HD11	1.96	0.48
6:AX:266:VAL:HG22	6:AX:387:VAL:HG22	1.95	0.48
6:AY:294:ARG:HD2	6:AY:367:GLU:OE1	2.13	0.48
6:AZ:294:ARG:HD2	6:AZ:367:GLU:OE1	2.13	0.48
8:At:178:LEU:HD13	8:At:181:LEU:HD23	1.95	0.48
9:Ax:241:GLN:HG3	6:WC:164:LEU:O	2.08	0.48
6:UL:98:LEU:HD22	6:UL:147:LEU:CD2	2.39	0.48
6:WB:206:PRO:O	6:WB:207:PRO:C	2.56	0.48
6:WP:202:VAL:HB	6:WP:205:LEU:HB2	1.95	0.48
1:A:212:TYR:HA	1:A:215:GLU:HG3	1.95	0.48
1:J:212:TYR:HA	1:J:215:GLU:HG3	1.95	0.48
1:K:212:TYR:HA	1:K:215:GLU:HG3	1.95	0.48
2:p:56:PRO:HG3	2:q:77:THR:CG2	2.44	0.48
2:p:276:ALA:HB2	2:p:319:LEU:HD12	1.95	0.48
2:t:260:GLY:HA2	2:t:346:MET:HE1	1.94	0.48
2:u:276:ALA:HB2	2:u:319:LEU:HD12	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2:121:GLN:NE2	3:7:78:GLU:OE1	2.38	0.48
3:5:129:VAL:HG12	3:5:135:GLN:HA	1.96	0.48
3:5:215:TYR:HB3	3:5:218:TYR:HD2	1.78	0.48
3:9:123:ASP:OD2	3:9:125:ASN:ND2	2.47	0.48
4:ZG:99:GLN:HG3	4:ZG:361:LEU:HD11	1.95	0.48
4:ZG:159:ASN:ND2	4:ZG:272:GLY:O	2.45	0.48
4:ZT:228:THR:HB	4:ZT:244:VAL:HG11	1.94	0.48
4:ZZ:93:PHE:HB3	4:ZZ:333:VAL:HG13	1.94	0.48
4:ZZ:331:ASP:HA	4:Ze:40:ALA:HB1	1.96	0.48
4:Zb:170:PHE:HE2	4:Zb:223:PRO:HG2	1.79	0.48
4:Zf:294:ILE:HG12	4:Zf:300:VAL:HG22	1.96	0.48
5:AB:71:LEU:HB2	3:AM:70:THR:HG22	1.94	0.48
6:AR:266:VAL:HG22	6:AR:387:VAL:HG22	1.95	0.48
6:AS:372:ILE:CG2	10:A4:4:ILE:HG12	2.42	0.48
6:AU:266:VAL:HG22	6:AU:387:VAL:HG22	1.95	0.48
6:AZ:236:LYS:CE	6:UP:167:ARG:NH1	2.76	0.48
6:Ak:294:ARG:HD2	6:Ak:367:GLU:OE1	2.12	0.48
6:AP:266:VAL:HG22	6:AP:387:VAL:HG22	1.95	0.48
9:Ax:159:LEU:O	9:Ax:160:GLN:HB2	2.14	0.48
9:Ay:150:PHE:CE1	9:Ay:172:PRO:HB2	2.48	0.48
6:UO:73:MET:HE3	6:UO:99:ARG:CD	2.41	0.48
6:WA:196:HIS:CD2	6:WB:219:LEU:HD22	2.48	0.48
6:WI:202:VAL:HB	6:WI:205:LEU:HB2	1.94	0.48
6:WK:193:ALA:CB	6:WL:213:VAL:HG11	2.44	0.48
6:BS:266:VAL:HG22	6:BS:387:VAL:HG22	1.95	0.48
6:BW:266:VAL:HG22	6:BW:387:VAL:HG22	1.95	0.48
1:L:212:TYR:HA	1:L:215:GLU:HG3	1.95	0.48
1:U:212:TYR:HA	1:U:215:GLU:HG3	1.95	0.48
1:W:84:GLU:OE1	1:X:167:LYS:NZ	2.42	0.48
1:X:212:TYR:HA	1:X:215:GLU:HG3	1.95	0.48
2:a:101:GLN:HE21	2:z:188:GLN:HB2	1.79	0.48
2:b:56:PRO:HG3	2:c:77:THR:CG2	2.44	0.48
2:e:276:ALA:HB2	2:e:319:LEU:HD12	1.95	0.48
2:g:56:PRO:HG3	2:h:77:THR:CG2	2.44	0.48
2:h:276:ALA:HB2	2:h:319:LEU:HD12	1.95	0.48
2:j:56:PRO:HG3	2:k:77:THR:CG2	2.44	0.48
2:l:56:PRO:HG3	2:m:77:THR:CG2	2.43	0.48
2:m:56:PRO:HG3	2:n:77:THR:CG2	2.44	0.48
2:o:319:LEU:HD21	2:p:264:MET:CE	2.25	0.48
2:p:260:GLY:HA2	2:p:346:MET:HE1	1.95	0.48
2:q:188:GLN:HB2	2:r:101:GLN:HE21	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s:159:GLN:CD	2:t:46:ASP:OD1	2.57	0.48
2:y:188:GLN:HB2	2:z:101:GLN:HE21	1.79	0.48
3:3:50:ARG:HH21	3:AM:73:ARG:NH2	2.12	0.48
3:5:205:THR:HB	3:5:208:LEU:HD23	1.94	0.48
3:ZE:140:ILE:HG23	3:ZE:171:GLY:HA3	1.96	0.48
4:ZL:165:PRO:HG2	4:ZL:201:VAL:HG13	1.95	0.48
4:ZT:233:ASN:HD21	4:ZT:237:ILE:HB	1.77	0.48
4:Zb:288:ASP:O	4:Zb:305:SER:N	2.45	0.48
4:Zb:299:THR:HG22	4:Zb:314:GLN:HG3	1.95	0.48
4:Ze:196:MET:SD	4:Ze:212:THR:HB	2.54	0.48
5:AA:220:MET:CE	3:AF:246:ALA:CA	2.92	0.48
5:AE:123:GLU:OE2	5:AE:160:ARG:HD3	2.14	0.48
5:AE:181:LEU:HD21	5:AE:193:LEU:HD11	1.96	0.48
3:AL:19:MET:HB2	3:AL:236:VAL:HG11	1.96	0.48
6:AX:294:ARG:HD2	6:AX:367:GLU:OE1	2.12	0.48
6:Ad:372:ILE:HG21	10:A2:11:ILE:HG23	1.89	0.48
6:Ah:294:ARG:HD2	6:Ah:367:GLU:OE1	2.12	0.48
6:Aj:294:ARG:HD2	6:Aj:367:GLU:OE1	2.12	0.48
6:AQ:266:VAL:HG22	6:AQ:387:VAL:HG22	1.95	0.48
8:At:101:PHE:CE2	9:Au:80:THR:HG21	2.48	0.48
9:Av:152:ARG:HH12	6:WV:164:LEU:CB	2.27	0.48
9:Ay:71:PHE:CZ	9:Ay:236:MET:HE1	2.49	0.48
10:A1:55:GLN:HG2	10:A1:71:VAL:HG22	1.94	0.48
11:A9:11:PHE:CD1	11:A9:53:MET:HE2	2.48	0.48
6:UJ:103:GLN:HB3	6:WD:182:PRO:HA	1.91	0.48
6:UJ:129:GLN:O	6:UJ:133:GLN:N	2.29	0.48
6:UO:80:ALA:CB	6:UO:83:SER:HB3	2.43	0.48
6:WA:142:ARG:O	6:WA:146:THR:HG23	2.13	0.48
6:WC:202:VAL:HB	6:WC:205:LEU:HB2	1.95	0.48
6:WC:206:PRO:O	6:WC:207:PRO:C	2.56	0.48
6:WD:167:ARG:HH21	6:WD:168:GLU:HA	1.77	0.48
6:WF:124:SER:O	6:WF:127:SER:N	2.46	0.48
6:WG:142:ARG:O	6:WG:146:THR:HG23	2.14	0.48
6:WT:206:PRO:O	6:WT:207:PRO:C	2.56	0.48
6:WV:192:SER:O	6:WV:195:VAL:N	2.47	0.48
6:WW:206:PRO:O	6:WW:207:PRO:C	2.56	0.48
2:c:193:ASP:CG	2:d:23:ARG:HH22	2.19	0.48
2:g:159:GLN:CD	2:h:46:ASP:OD1	2.57	0.48
2:g:260:GLY:HA2	2:g:346:MET:HE1	1.94	0.48
2:g:276:ALA:HB2	2:g:319:LEU:HD12	1.95	0.48
2:p:159:GLN:CD	2:q:46:ASP:OD1	2.57	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:159:GLN:CD	2:w:46:ASP:OD1	2.57	0.48
3:0:33:GLY:N	3:0:220:GLU:O	2.46	0.48
3:0:150:THR:OG1	3:0:158:SER:OG	2.29	0.48
3:5:44:LEU:HB3	3:5:70:THR:HB	1.95	0.48
3:6:47:GLN:N	3:6:68:ILE:O	2.45	0.48
3:8:19:MET:HB2	3:8:236:VAL:HG11	1.96	0.48
3:ZB:28:ASN:ND2	4:ZG:52:VAL:HG23	2.28	0.48
3:ZE:34:PHE:HB3	3:ZE:222:SER:HB3	1.95	0.48
4:ZH:298:GLY:HA2	4:ZH:356:LEU:HD12	1.95	0.48
4:ZI:147:LYS:HE2	4:ZI:282:ASN:HD22	1.79	0.48
4:ZP:156:ILE:HD12	4:ZP:276:ILE:HG12	1.96	0.48
4:ZQ:22:ASN:N	4:ZV:5:GLN:HE21	2.11	0.48
4:Zf:297:ASP:OD1	4:Zf:297:ASP:N	2.36	0.48
5:AB:26:LEU:HD22	3:AG:242:ILE:CG2	2.41	0.48
5:AE:227:PHE:CE2	3:AJ:253:MET:O	2.67	0.48
3:AH:190:ASN:ND2	3:AM:42:GLU:HG3	2.29	0.48
6:AW:299:ASN:HD22	11:A9:55:ARG:CZ	2.16	0.48
6:Ah:266:VAL:HG22	6:Ah:387:VAL:HG22	1.95	0.48
6:Ak:266:VAL:HG22	6:Ak:387:VAL:HG22	1.95	0.48
6:AO:266:VAL:HG22	6:AO:387:VAL:HG22	1.95	0.48
7:Ar:14:MET:HE3	7:As:63:ILE:HD11	1.96	0.48
6:UJ:127:SER:O	6:UJ:131:ASN:HB2	2.14	0.48
6:WB:128:GLU:HG2	6:WC:126:PHE:HD2	1.79	0.48
6:WB:197:LEU:HA	6:WC:175:SER:OG	2.14	0.48
1:M:212:TYR:HA	1:M:215:GLU:HG3	1.95	0.48
2:a:193:ASP:CG	2:b:23:ARG:HH22	2.19	0.48
2:e:159:GLN:CD	2:f:46:ASP:OD1	2.57	0.48
2:q:276:ALA:HB2	2:q:319:LEU:HD12	1.95	0.48
2:r:188:GLN:HB2	2:s:101:GLN:HE21	1.79	0.48
2:w:159:GLN:CD	2:x:46:ASP:OD1	2.57	0.48
3:0:195:THR:HG22	3:0:196:GLN:H	1.79	0.48
3:6:64:SER:O	3:6:64:SER:OG	2.23	0.48
3:9:130:THR:HG22	3:9:132:GLY:H	1.79	0.48
3:ZA:95:VAL:O	3:ZA:118:GLY:HA3	2.13	0.48
3:ZD:248:SER:HB2	4:ZI:402:LEU:HD22	1.95	0.48
4:ZM:331:ASP:HA	4:ZR:40:ALA:HB1	1.95	0.48
4:ZR:390:LYS:O	4:ZR:394:GLN:HG2	2.14	0.48
4:ZT:269:GLN:HB3	4:ZZ:286:PRO:HG2	1.95	0.48
4:ZU:69:THR:HG22	4:ZU:71:ARG:H	1.79	0.48
4:ZU:195:ASP:OD2	4:ZU:195:ASP:N	2.40	0.48
4:Zd:20:ILE:O	4:Zd:24:ILE:HG13	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ze:33:LYS:HG3	4:Ze:61:PHE:CD2	2.49	0.48
4:Zf:2:SER:OG	4:Zf:3:PHE:N	2.46	0.48
4:Zg:146:ALA:HB2	4:Zg:286:PRO:HD3	1.95	0.48
6:AT:266:VAL:HG22	6:AT:387:VAL:HG22	1.95	0.48
7:As:60:ILE:HA	7:As:63:ILE:HG12	1.96	0.48
8:At:86:PHE:CZ	9:Au:88:VAL:HA	2.48	0.48
9:Au:99:PHE:C	9:Au:99:PHE:CD2	2.91	0.48
6:UP:98:LEU:CD1	6:UP:146:THR:HG1	2.27	0.48
6:WA:193:ALA:HB1	6:WB:213:VAL:CG1	2.43	0.48
6:WC:187:ASP:O	6:WC:190:GLN:HB3	2.14	0.48
6:WJ:171:SER:HB3	6:WJ:206:PRO:HG3	1.96	0.48
6:WN:200:SER:CB	6:WO:173:SER:HB2	2.44	0.48
6:WR:202:VAL:HB	6:WR:205:LEU:HB2	1.95	0.48
6:WR:206:PRO:O	6:WR:207:PRO:C	2.56	0.48
12:BC:27:ASN:OD1	12:BC:42:TYR:OH	2.27	0.48
1:Q:212:TYR:HA	1:Q:215:GLU:HG3	1.95	0.48
2:a:46:ASP:OD1	2:z:159:GLN:CD	2.57	0.48
2:a:188:GLN:HB2	2:b:101:GLN:HE21	1.79	0.48
2:e:56:PRO:HG3	2:f:77:THR:CG2	2.44	0.48
2:i:159:GLN:CD	2:j:46:ASP:OD1	2.57	0.48
2:m:159:GLN:CD	2:n:46:ASP:OD1	2.57	0.48
2:p:188:GLN:HB2	2:q:101:GLN:HE21	1.79	0.48
2:p:193:ASP:CG	2:q:23:ARG:HH22	2.19	0.48
2:t:56:PRO:HG3	2:u:77:THR:CG2	2.44	0.48
2:t:159:GLN:CD	2:u:46:ASP:OD1	2.57	0.48
2:x:188:GLN:HB2	2:y:101:GLN:HE21	1.79	0.48
3:2:76:ALA:HB1	3:7:64:SER:O	2.14	0.48
3:4:97:ILE:HD11	3:4:103:PHE:CE2	2.49	0.48
3:6:56:SER:CA	5:AE:138:ALA:CB	2.75	0.48
4:ZG:318:ALA:HB2	4:ZG:345:LEU:HD23	1.96	0.48
4:ZI:17:LEU:HD13	4:ZN:395:ILE:HD11	1.95	0.48
4:ZO:5:GLN:HG2	4:ZO:50:LEU:O	2.14	0.48
4:ZQ:317:LEU:HD11	4:ZQ:356:LEU:HD21	1.96	0.48
4:ZR:261:LEU:HD21	4:ZR:263:PHE:HE2	1.78	0.48
4:ZS:170:PHE:HE2	4:ZS:223:PRO:HG2	1.79	0.48
4:ZU:181:LYS:HZ3	4:ZU:197:ASN:HB3	1.79	0.48
4:ZW:186:VAL:HG23	4:ZW:194:HIS:HB2	1.95	0.48
4:ZW:294:ILE:HG12	4:ZW:300:VAL:HG22	1.96	0.48
4:ZZ:367:ASP:HB2	4:ZZ:370:LYS:HG3	1.94	0.48
5:AD:35:ARG:HA	5:AD:210:ASN:HD21	1.78	0.48
6:Ag:266:VAL:HG22	6:Ag:387:VAL:HG22	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:An:276:GLU:CD	10:Az:11:ILE:CD1	2.87	0.48
6:Ao:278:THR:HG21	10:Az:7:ILE:CD1	2.44	0.48
7:Aq:11:THR:HA	7:Aq:14:MET:HE3	1.96	0.48
9:Au:149:LEU:HB2	6:WQ:164:LEU:HD23	1.95	0.48
6:Ui:98:LEU:CD1	6:Ui:146:THR:HG1	2.26	0.48
6:UN:98:LEU:HD12	6:UN:146:THR:HG1	1.78	0.48
12:BA:27:ASN:ND2	12:BA:45:LYS:O	2.33	0.48
6:WA:202:VAL:HB	6:WA:205:LEU:HB2	1.94	0.48
6:WH:187:ASP:OD2	6:WH:190:GLN:HB2	2.14	0.48
6:WO:202:VAL:HB	6:WO:205:LEU:HB2	1.95	0.48
6:WT:145:GLU:C	6:WT:147:LEU:N	2.72	0.48
6:WV:202:VAL:HB	6:WV:205:LEU:HB2	1.95	0.48
1:T:212:TYR:HA	1:T:215:GLU:HG3	1.95	0.47
2:a:118:GLY:HA3	2:z:159:GLN:NE2	2.29	0.47
2:b:159:GLN:CD	2:c:46:ASP:OD1	2.57	0.47
2:c:159:GLN:CD	2:d:46:ASP:OD1	2.57	0.47
2:c:188:GLN:HB2	2:d:101:GLN:HE21	1.79	0.47
2:e:159:GLN:NE2	2:f:118:GLY:HA3	2.29	0.47
2:f:260:GLY:HA2	2:f:346:MET:HE1	1.95	0.47
2:i:56:PRO:HG3	2:j:77:THR:CG2	2.43	0.47
2:j:159:GLN:NE2	2:k:118:GLY:HA3	2.29	0.47
2:l:159:GLN:CD	2:m:46:ASP:OD1	2.57	0.47
2:q:260:GLY:HA2	2:q:346:MET:HE1	1.94	0.47
2:y:159:GLN:CD	2:z:46:ASP:OD1	2.57	0.47
3:1:66:LEU:HD12	3:AK:77:THR:HG23	1.95	0.47
3:3:230:LEU:HA	3:3:233:MET:HE2	1.95	0.47
3:3:240:TYR:CE1	3:8:257:LEU:HD13	2.49	0.47
3:6:153:ARG:HH22	3:6:213:LEU:HD13	1.78	0.47
3:6:210:GLY:O	3:6:211:ALA:C	2.53	0.47
3:ZB:95:VAL:O	3:ZB:118:GLY:HA3	2.14	0.47
3:ZC:230:LEU:O	3:ZC:234:ILE:HG12	2.14	0.47
4:ZO:14:ALA:HB2	4:ZO:382:TYR:HE2	1.78	0.47
4:ZO:33:LYS:HD2	4:ZO:61:PHE:HA	1.95	0.47
4:ZR:126:PRO:HG2	4:ZR:310:GLN:HE21	1.78	0.47
4:ZV:101:LYS:HZ1	4:ZV:111:MET:HG3	1.79	0.47
4:ZW:159:ASN:ND2	4:ZW:162:ASP:OD1	2.45	0.47
4:ZW:211:TYR:CD1	4:ZW:226:ALA:HA	2.49	0.47
5:AB:18:GLN:NE2	5:AB:223:ASN:OD1	2.46	0.47
5:AD:234:ILE:HG21	3:AI:260:LEU:HD21	1.95	0.47
3:AF:62:LEU:HD22	12:BB:83:PRO:HG2	1.86	0.47
3:AG:115:THR:HB	3:AG:191:LEU:HD23	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AI:185:GLU:HG3	3:AN:67:GLN:NE2	2.22	0.47
6:Aa:296:ARG:HG2	6:Aa:296:ARG:HH11	1.79	0.47
6:Af:296:ARG:HG2	6:Af:296:ARG:HH11	1.79	0.47
6:Am:296:ARG:HG2	6:Am:296:ARG:HH11	1.79	0.47
7:Aq:44:ILE:HD13	7:Aq:44:ILE:HA	1.75	0.47
7:Ar:54:LYS:NZ	7:As:48:THR:HG21	2.29	0.47
8:At:158:PRO:HG2	8:At:162:ASN:ND2	2.16	0.47
9:Aw:162:PRO:HD3	6:WA:167:ARG:NH2	2.26	0.47
10:A5:7:ILE:CB	6:BR:278:THR:HG21	2.41	0.47
6:UI:73:MET:HE3	6:UI:99:ARG:CD	2.41	0.47
12:BB:44:ALA:HB2	12:BB:96:VAL:HG22	1.96	0.47
6:WG:202:VAL:HB	6:WG:205:LEU:HB2	1.94	0.47
6:WN:142:ARG:O	6:WN:146:THR:HG23	2.14	0.47
6:WN:206:PRO:O	6:WN:207:PRO:C	2.56	0.47
6:WT:202:VAL:HB	6:WT:205:LEU:HB2	1.95	0.47
6:WV:206:PRO:O	6:WV:207:PRO:C	2.56	0.47
6:BS:296:ARG:HG2	6:BS:296:ARG:HH11	1.79	0.47
1:N:212:TYR:HA	1:N:215:GLU:HG3	1.95	0.47
1:V:212:TYR:HA	1:V:215:GLU:HG3	1.95	0.47
1:W:212:TYR:HA	1:W:215:GLU:HG3	1.95	0.47
2:b:193:ASP:CG	2:c:23:ARG:HH22	2.19	0.47
2:d:188:GLN:HB2	2:e:101:GLN:HE21	1.79	0.47
2:e:188:GLN:HB2	2:f:101:GLN:HE21	1.79	0.47
2:f:276:ALA:HB2	2:f:319:LEU:HD12	1.95	0.47
2:j:159:GLN:CD	2:k:46:ASP:OD1	2.57	0.47
2:o:159:GLN:CD	2:p:46:ASP:OD1	2.57	0.47
2:o:193:ASP:CG	2:p:23:ARG:HH22	2.19	0.47
2:q:56:PRO:HG3	2:r:77:THR:CG2	2.43	0.47
3:3:22:ILE:HD11	3:3:232:ASN:HB3	1.95	0.47
3:ZD:50:ARG:HB2	3:ZD:66:LEU:H	1.78	0.47
4:ZF:47:LYS:HE3	4:ZF:47:LYS:HB3	1.67	0.47
4:ZJ:110:ASN:ND2	4:ZJ:112:GLN:OE1	2.47	0.47
4:ZM:235:ASN:ND2	4:ZS:189:SER:OG	2.47	0.47
4:ZT:184:VAL:HG13	4:ZT:196:MET:HB2	1.96	0.47
4:ZW:317:LEU:HD11	4:ZW:356:LEU:HD21	1.96	0.47
4:Zb:154:MET:HE1	4:Zb:276:ILE:HG12	1.96	0.47
4:Zf:59:GLN:HB3	4:Zf:61:PHE:CE1	2.49	0.47
5:AB:238:ASP:HB2	12:BB:106:MET:HE3	1.95	0.47
6:Ai:296:ARG:HG2	6:Ai:296:ARG:HH11	1.79	0.47
6:Ap:296:ARG:HG2	6:Ap:296:ARG:HH11	1.79	0.47
6:AP:296:ARG:HG2	6:AP:296:ARG:HH11	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AQ:296:ARG:HG2	6:AQ:296:ARG:HH11	1.79	0.47
8:At:94:ALA:HB2	8:At:179:ILE:HA	1.96	0.47
9:Av:82:SER:HA	10:Az:103:GLN:HE21	1.79	0.47
6:UL:73:MET:HE3	6:UL:99:ARG:CD	2.41	0.47
6:WA:216:SER:O	6:WW:190:GLN:HG2	2.14	0.47
6:WI:193:ALA:HB1	6:WJ:213:VAL:HG11	1.94	0.47
6:WI:201:ALA:C	6:WJ:158:ALA:HB2	2.39	0.47
6:WU:113:PHE:CE2	6:WU:139:GLU:HG3	2.48	0.47
6:WU:115:LEU:HD21	6:WU:134:ARG:HD3	1.95	0.47
12:BE:42:TYR:O	12:BE:94:PRO:HB3	2.14	0.47
1:P:212:TYR:HA	1:P:215:GLU:HG3	1.95	0.47
1:R:212:TYR:HA	1:R:215:GLU:HG3	1.95	0.47
2:b:188:GLN:HB2	2:c:101:GLN:HE21	1.79	0.47
2:h:159:GLN:NE2	2:i:118:GLY:HA3	2.30	0.47
2:n:159:GLN:CD	2:o:46:ASP:OD1	2.57	0.47
2:r:276:ALA:HB2	2:r:319:LEU:HD12	1.95	0.47
2:s:260:GLY:HA2	2:s:346:MET:HE1	1.95	0.47
2:t:276:ALA:HB2	2:t:319:LEU:HD12	1.95	0.47
3:0:73:ARG:HH11	3:0:73:ARG:HB2	1.78	0.47
3:1:18:ASN:O	3:1:22:ILE:HG13	2.15	0.47
3:5:22:ILE:HG21	3:5:233:MET:HG3	1.96	0.47
3:8:95:VAL:O	3:8:118:GLY:HA3	2.14	0.47
3:ZC:98:LYS:HE2	4:ZN:44:ALA:HB1	1.95	0.47
4:ZF:162:ASP:OD2	4:ZF:274:ASN:ND2	2.30	0.47
4:ZH:33:LYS:HA	4:ZH:365:ASN:HD21	1.79	0.47
4:ZH:78:SER:OG	4:ZH:355:LYS:N	2.35	0.47
4:ZH:114:MET:HE1	4:ZH:333:VAL:HG11	1.97	0.47
4:ZS:380:ARG:HH21	4:ZY:397:ASN:HD21	1.61	0.47
4:ZX:17:LEU:HD13	4:Zc:395:ILE:CD1	2.44	0.47
4:Zd:116:LEU:HD12	4:Zd:117:THR:N	2.29	0.47
4:Zg:87:ASP:OD1	4:Zg:91:SER:N	2.46	0.47
5:AA:225:ARG:O	5:AA:229:MET:HG3	2.14	0.47
5:AD:16:LEU:HD21	3:AI:253:MET:CE	2.40	0.47
5:AE:65:ASP:O	5:AE:210:ASN:ND2	2.46	0.47
3:AI:18:ASN:HB2	3:AI:41:PHE:HZ	1.79	0.47
3:AL:142:ILE:HD13	3:AL:149:ILE:HD13	1.96	0.47
6:AY:266:VAL:HG22	6:AY:387:VAL:HG22	1.95	0.47
9:Aw:190:PHE:CD1	9:Ax:220:PRO:HG3	2.49	0.47
9:Ay:144:GLU:HG2	6:WH:165:PHE:O	2.14	0.47
6:UL:180:LEU:HB2	6:UL:215:GLN:HE22	1.79	0.47
6:WD:202:VAL:HB	6:WD:205:LEU:HB2	1.95	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WL:206:PRO:O	6:WL:207:PRO:C	2.56	0.47
6:WW:142:ARG:O	6:WW:146:THR:HG23	2.14	0.47
12:BD:28:LEU:HD21	12:BD:102:MET:HE2	1.96	0.47
6:BR:266:VAL:HG22	6:BR:387:VAL:HG22	1.95	0.47
2:b:159:GLN:NE2	2:c:118:GLY:HA3	2.30	0.47
2:f:159:GLN:CD	2:g:46:ASP:OD1	2.57	0.47
2:f:188:GLN:HB2	2:g:101:GLN:HE21	1.79	0.47
2:g:188:GLN:HB2	2:h:101:GLN:HE21	1.79	0.47
2:i:188:GLN:HB2	2:j:101:GLN:HE21	1.79	0.47
2:o:188:GLN:HB2	2:p:101:GLN:HE21	1.79	0.47
2:q:159:GLN:CD	2:r:46:ASP:OD1	2.57	0.47
2:r:159:GLN:CD	2:s:46:ASP:OD1	2.57	0.47
3:0:42:GLU:HB3	3:0:75:VAL:HG21	1.96	0.47
3:4:241:GLU:OE1	3:ZA:258:THR:HB	2.15	0.47
3:5:34:PHE:HB3	3:5:222:SER:HB3	1.95	0.47
3:5:100:GLN:HG3	3:5:100:GLN:O	2.14	0.47
3:ZB:28:ASN:ND2	4:ZG:52:VAL:HB	2.29	0.47
3:ZD:76:ALA:CA	4:ZI:47:LYS:HE3	2.43	0.47
3:ZD:97:ILE:HD11	3:ZD:103:PHE:CE2	2.49	0.47
4:ZI:83:PHE:HB2	4:ZI:95:SER:O	2.14	0.47
4:ZJ:380:ARG:HD3	4:ZJ:380:ARG:HA	1.71	0.47
4:ZL:171:SER:O	4:ZL:177:SER:OG	2.31	0.47
4:ZL:373:VAL:O	4:ZL:375:MET:N	2.47	0.47
4:ZN:331:ASP:HA	4:ZS:40:ALA:HB1	1.96	0.47
4:ZP:14:ALA:HB2	4:ZP:382:TYR:HE2	1.79	0.47
4:ZP:314:GLN:NE2	4:ZP:347:THR:OG1	2.47	0.47
4:ZQ:228:THR:HG21	4:ZQ:244:VAL:HG11	1.95	0.47
4:ZS:6:ALA:O	4:ZS:9:GLY:N	2.47	0.47
4:ZU:99:GLN:NE2	4:ZZ:38:SER:OG	2.46	0.47
4:Za:16:ASN:O	4:Za:20:ILE:HG12	2.14	0.47
4:Zc:83:PHE:HB2	4:Zc:95:SER:O	2.13	0.47
5:AB:231:MET:SD	3:AG:260:LEU:HD13	2.55	0.47
5:AE:245:ASN:OD1	11:A0:106:ARG:NH1	2.47	0.47
3:AF:43:ASP:N	3:AF:43:ASP:OD1	2.45	0.47
3:AH:98:LYS:HD3	3:AH:213:LEU:HD12	1.95	0.47
6:AX:296:ARG:HG2	6:AX:296:ARG:HH11	1.79	0.47
6:Ad:296:ARG:HH11	6:Ad:296:ARG:HG2	1.79	0.47
6:An:266:VAL:HG22	6:An:387:VAL:HG22	1.95	0.47
7:Aq:70:LEU:O	7:Aq:74:LEU:HG	2.14	0.47
11:A7:29:ASN:HD21	11:A7:41:ARG:H	1.61	0.47
11:A7:96:ASP:OD1	11:A7:96:ASP:N	2.39	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:A9:11:PHE:HD1	11:A9:53:MET:HE2	1.80	0.47
6:WA:190:GLN:O	6:WA:191:ILE:C	2.57	0.47
6:WP:206:PRO:O	6:WP:207:PRO:C	2.56	0.47
1:O:212:TYR:HA	1:O:215:GLU:HG3	1.95	0.47
2:c:159:GLN:NE2	2:d:118:GLY:HA3	2.30	0.47
2:d:159:GLN:CD	2:e:46:ASP:OD1	2.57	0.47
2:f:56:PRO:HG3	2:g:77:THR:CG2	2.44	0.47
2:g:159:GLN:NE2	2:h:118:GLY:HA3	2.30	0.47
2:h:56:PRO:HG3	2:i:77:THR:CG2	2.44	0.47
2:h:80:GLN:OE1	5:AE:154:THR:OG1	2.15	0.47
2:h:188:GLN:HB2	2:i:101:GLN:HE21	1.79	0.47
2:l:188:GLN:HB2	2:m:101:GLN:HE21	1.79	0.47
2:m:159:GLN:NE2	2:n:118:GLY:HA3	2.30	0.47
2:n:319:LEU:HD21	2:o:264:MET:CE	2.25	0.47
2:w:56:PRO:HG3	2:x:77:THR:CG2	2.43	0.47
2:w:159:GLN:NE2	2:x:118:GLY:HA3	2.29	0.47
3:3:215:TYR:HE2	3:ZE:45:LEU:HD21	1.80	0.47
3:6:56:SER:O	3:6:57:SER:C	2.57	0.47
3:8:238:ARG:NH1	3:8:241:GLU:OE1	2.47	0.47
3:ZE:48:THR:HG22	3:ZE:67:GLN:HE22	1.79	0.47
4:ZM:93:PHE:HB3	4:ZM:333:VAL:HG13	1.95	0.47
4:ZO:140:PRO:HD2	4:ZO:312:LEU:HD23	1.95	0.47
4:ZX:6:ALA:HB1	4:ZX:389:ILE:HG12	1.95	0.47
4:Zc:80:ASN:OD1	4:Zc:81:GLY:N	2.46	0.47
5:AB:70:GLN:CD	3:AM:6:TRP:HE1	2.22	0.47
5:AD:35:ARG:O	5:AD:173:ARG:NH2	2.37	0.47
3:AL:3:SER:C	3:AL:5:LEU:N	2.72	0.47
3:AM:115:THR:HB	3:AM:191:LEU:HD23	1.97	0.47
6:AR:296:ARG:HG2	6:AR:296:ARG:HH11	1.79	0.47
6:AV:296:ARG:HG2	6:AV:296:ARG:HH11	1.80	0.47
6:Aa:266:VAL:HG22	6:Aa:387:VAL:HG22	1.95	0.47
6:Al:296:ARG:HG2	6:Al:296:ARG:HH11	1.80	0.47
6:Ao:266:VAL:HG22	6:Ao:387:VAL:HG22	1.95	0.47
7:Aq:7:MET:SD	7:Ar:70:LEU:HD22	2.54	0.47
7:As:2:THR:OG1	7:As:4:GLU:OE1	2.29	0.47
10:A1:99:VAL:HA	10:A1:102:MET:HE3	1.96	0.47
11:A7:24:GLU:OE1	12:BB:5:ASN:HB2	2.15	0.47
11:A8:10:ARG:HE	11:A8:53:MET:HE1	1.79	0.47
6:UL:103:GLN:CG	6:WH:182:PRO:HB3	2.43	0.47
6:UM:127:SER:O	6:UM:131:ASN:HB2	2.14	0.47
6:UN:127:SER:O	6:UN:131:ASN:HB2	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WB:187:ASP:OD1	6:WB:190:GLN:N	2.41	0.47
6:WC:145:GLU:O	6:WC:146:THR:C	2.56	0.47
6:WD:206:PRO:O	6:WD:207:PRO:C	2.56	0.47
6:WI:193:ALA:HB1	6:WJ:213:VAL:CG2	2.45	0.47
12:BD:52:ASP:OD1	12:BD:63:LYS:HD3	2.13	0.47
1:K:184:VAL:HG22	1:K:200:VAL:HG22	1.97	0.47
1:S:212:TYR:HA	1:S:215:GLU:HG3	1.95	0.47
2:a:77:THR:CG2	2:z:56:PRO:HG3	2.43	0.47
2:h:159:GLN:CD	2:i:46:ASP:OD1	2.57	0.47
2:j:188:GLN:HB2	2:k:101:GLN:HE21	1.79	0.47
2:k:159:GLN:CD	2:l:46:ASP:OD1	2.57	0.47
2:m:188:GLN:HB2	2:n:101:GLN:HE21	1.79	0.47
2:r:159:GLN:NE2	2:s:118:GLY:HA3	2.29	0.47
2:r:260:GLY:HA2	2:r:346:MET:HE1	1.95	0.47
2:w:188:GLN:HB2	2:x:101:GLN:HE21	1.79	0.47
2:x:93:TYR:OH	2:x:173:ARG:O	2.19	0.47
2:x:159:GLN:CD	2:y:46:ASP:OD1	2.57	0.47
3:5:1:MET:HE2	3:AI:226:VAL:HG21	1.96	0.47
3:6:158:SER:HB3	3:6:167:PRO:HB2	1.96	0.47
3:9:50:ARG:HD3	3:9:66:LEU:HD12	1.97	0.47
3:ZA:28:ASN:OD1	4:ZF:52:VAL:CB	2.61	0.47
3:ZB:233:MET:HE1	4:ZG:388:THR:HG1	1.78	0.47
4:ZF:210:VAL:O	4:ZF:227:SER:N	2.48	0.47
4:ZJ:87:ASP:OD2	4:ZJ:88:SER:N	2.45	0.47
4:ZK:373:VAL:HG11	4:ZQ:7:VAL:HG22	1.96	0.47
4:ZL:84:ARG:HG2	4:ZL:117:THR:OG1	2.14	0.47
4:ZR:295:ASN:ND2	4:ZR:299:THR:OG1	2.38	0.47
4:ZT:144:MET:HG3	4:ZT:310:GLN:NE2	2.29	0.47
4:Zc:6:ALA:HB1	4:Zc:389:ILE:HG13	1.96	0.47
4:Ze:58:THR:OG1	4:Ze:59:GLN:N	2.47	0.47
5:AA:200:ARG:NH1	3:AG:189:GLU:CB	2.77	0.47
5:AA:224:ALA:O	5:AA:228:GLU:HG2	2.14	0.47
5:AB:109:PRO:HB3	3:AG:197:SER:O	2.15	0.47
3:AJ:208:LEU:O	3:AJ:209:ASN:HB3	2.15	0.47
3:AK:44:LEU:HD22	12:BF:78:TYR:HB2	1.97	0.47
6:AS:266:VAL:HG22	6:AS:387:VAL:HG22	1.95	0.47
6:AY:296:ARG:HH11	6:AY:296:ARG:HG2	1.80	0.47
6:Aj:296:ARG:HG2	6:Aj:296:ARG:HH11	1.80	0.47
6:Al:266:VAL:HG22	6:Al:387:VAL:HG22	1.95	0.47
6:Am:266:VAL:HG22	6:Am:387:VAL:HG22	1.95	0.47
6:WA:196:HIS:HB3	6:WB:211:THR:CG2	2.36	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WG:122:GLY:O	6:WG:123:ILE:C	2.58	0.47
6:WT:186:LEU:HA	6:WT:190:GLN:OE1	2.15	0.47
6:WU:142:ARG:O	6:WU:146:THR:HG23	2.14	0.47
6:BX:266:VAL:HG22	6:BX:387:VAL:HG22	1.95	0.47
6:BX:296:ARG:HH11	6:BX:296:ARG:HG2	1.79	0.47
1:J:184:VAL:HG22	1:J:200:VAL:HG22	1.97	0.47
1:P:184:VAL:HG22	1:P:200:VAL:HG22	1.97	0.47
2:c:56:PRO:HG3	2:d:77:THR:CG2	2.44	0.47
2:i:159:GLN:NE2	2:j:118:GLY:HA3	2.29	0.47
2:k:56:PRO:HG3	2:l:77:THR:CG2	2.44	0.47
2:k:159:GLN:NE2	2:l:118:GLY:HA3	2.29	0.47
2:k:188:GLN:HB2	2:l:101:GLN:HE21	1.79	0.47
2:n:56:PRO:HG3	2:o:77:THR:CG2	2.43	0.47
2:n:82:LYS:CE	3:AI:209:ASN:HD21	2.27	0.47
2:n:188:GLN:HB2	2:o:101:GLN:HE21	1.79	0.47
2:o:159:GLN:NE2	2:p:118:GLY:HA3	2.30	0.47
2:s:276:ALA:HB2	2:s:319:LEU:HD12	1.95	0.47
2:u:159:GLN:CD	2:v:46:ASP:OD1	2.57	0.47
2:u:159:GLN:NE2	2:v:118:GLY:HA3	2.30	0.47
2:x:159:GLN:NE2	2:y:118:GLY:HA3	2.29	0.47
3:6:57:SER:HB3	3:AK:108:PRO:CB	2.39	0.47
3:ZB:227:ALA:CB	4:ZM:399:LEU:CD2	2.92	0.47
4:ZG:358:ASN:OD1	4:ZG:359:GLY:N	2.47	0.47
4:ZJ:195:ASP:OD2	4:ZJ:195:ASP:N	2.36	0.47
4:ZL:234:GLU:OE2	4:ZR:255:THR:OG1	2.31	0.47
4:ZO:18:ASP:HA	4:ZT:5:GLN:NE2	2.28	0.47
4:ZO:74:ASP:OD1	4:ZO:74:ASP:N	2.48	0.47
4:ZP:27:SER:O	4:ZP:364:SER:OG	2.32	0.47
4:ZQ:97:ASN:HD22	4:ZQ:332:ASN:ND2	2.13	0.47
4:ZQ:233:ASN:HD21	4:ZQ:239:GLU:HB3	1.79	0.47
4:ZU:195:ASP:OD2	4:ZU:216:SER:OG	2.22	0.47
4:ZV:107:ASN:HD22	4:ZV:138:THR:HG22	1.79	0.47
4:ZW:171:SER:HB3	4:ZW:174:ASP:HB2	1.96	0.47
4:ZW:233:ASN:HD21	4:ZW:237:ILE:HB	1.80	0.47
4:ZX:245:ASN:C	4:ZX:246:ILE:HD13	2.40	0.47
4:ZX:317:LEU:HD11	4:ZX:356:LEU:HD21	1.97	0.47
4:Za:149:THR:HG21	4:Za:186:VAL:HB	1.97	0.47
4:Zb:309:GLU:OE1	4:Zb:309:GLU:N	2.41	0.47
4:Zg:194:HIS:CE1	4:Zg:251:ILE:HD12	2.50	0.47
5:AB:109:PRO:CB	3:AG:197:SER:O	2.63	0.47
5:AB:213:PRO:HD2	3:AM:2:ILE:HD11	1.95	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AC:28:ASN:HD21	3:AH:43:ASP:CB	2.20	0.47
5:AC:243:ARG:HD2	12:BD:113:GLN:HG2	1.96	0.47
5:AD:248:LEU:O	12:BD:121:THR:OG1	2.19	0.47
5:AE:152:PRO:C	5:AE:154:THR:H	2.22	0.47
3:AF:98:LYS:HE2	3:AL:187:ILE:O	2.14	0.47
3:AF:155:GLY:HA2	3:AF:214:LEU:HD12	1.97	0.47
3:AK:85:ASN:O	3:AK:221:THR:OG1	2.32	0.47
3:AK:142:ILE:HD13	3:AK:149:ILE:HD13	1.96	0.47
3:AL:188:GLY:O	3:AL:190:ASN:N	2.48	0.47
6:AS:296:ARG:HG2	6:AS:296:ARG:HH11	1.80	0.47
6:AT:294:ARG:CG	11:A0:72:HIS:CE1	2.96	0.47
6:Ac:296:ARG:HG2	6:Ac:296:ARG:HH11	1.80	0.47
6:Ae:296:ARG:HG2	6:Ae:296:ARG:HH11	1.79	0.47
6:Ag:295:SER:CB	11:A8:72:HIS:CA	2.93	0.47
6:Ap:266:VAL:HG22	6:Ap:387:VAL:HG22	1.95	0.47
8:At:9:TRP:CD1	8:At:9:TRP:H	2.31	0.47
9:Au:189:ILE:O	9:Au:192:PRO:HD2	2.15	0.47
10:Az:80:VAL:HG22	11:A6:131:MET:SD	2.54	0.47
11:A9:73:ILE:HD12	11:A9:74:PRO:HD2	1.95	0.47
11:A9:102:MET:HE3	11:A9:106:ARG:HE	1.78	0.47
6:UO:127:SER:O	6:UO:131:ASN:HB2	2.14	0.47
6:UO:129:GLN:O	6:UO:133:GLN:N	2.29	0.47
6:WF:147:LEU:HA	6:WG:215:GLN:O	2.14	0.47
6:WI:197:LEU:HA	6:WJ:175:SER:OG	2.15	0.47
6:WS:200:SER:HG	6:WT:175:SER:HB2	1.77	0.47
6:WV:112:GLY:HA2	6:WV:135:ALA:CA	2.28	0.47
6:WW:145:GLU:O	6:WW:147:LEU:N	2.48	0.47
1:E:166:GLU:OE2	1:E:168:GLN:NE2	2.37	0.47
1:M:84:GLU:OE1	1:N:167:LYS:NZ	2.43	0.47
2:a:159:GLN:CD	2:b:46:ASP:OD1	2.57	0.47
2:e:266:ARG:HA	2:e:328:LEU:HD22	1.97	0.47
2:l:159:GLN:NE2	2:m:118:GLY:HA3	2.30	0.47
2:w:177:THR:HG23	2:w:179:PHE:H	1.80	0.47
2:x:177:THR:HG23	2:x:179:PHE:H	1.80	0.47
2:y:177:THR:HG23	2:y:179:PHE:H	1.80	0.47
2:z:177:THR:HG23	2:z:179:PHE:H	1.80	0.47
3:4:238:ARG:O	3:4:242:ILE:HG12	2.15	0.47
4:ZG:160:SER:O	4:ZM:252:ASN:ND2	2.48	0.47
4:ZH:233:ASN:OD1	4:ZH:234:GLU:N	2.47	0.47
4:ZL:383:GLN:O	4:ZL:387:GLN:HG2	2.15	0.47
4:ZM:86:VAL:HG13	4:ZM:117:THR:HG21	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZP:195:ASP:OD2	4:ZP:216:SER:OG	2.25	0.47
4:ZR:390:LYS:HB2	4:ZW:402:LEU:HD22	1.97	0.47
4:ZW:396:LEU:HD23	4:ZW:396:LEU:HA	1.73	0.47
4:Zb:171:SER:HB3	4:Zb:174:ASP:HB2	1.97	0.47
4:Zg:294:ILE:HG12	4:Zg:300:VAL:HG22	1.97	0.47
4:Zg:328:SER:HG	4:Zg:334:TRP:CD1	2.32	0.47
5:AB:70:GLN:NE2	3:AM:6:TRP:HE1	2.12	0.47
5:AB:82:LEU:HD11	5:AB:88:LEU:HG	1.97	0.47
5:AC:18:GLN:HE21	5:AC:41:LEU:HG	1.79	0.47
3:AH:153:ARG:HH21	3:AN:108:PRO:HG2	1.79	0.47
3:AJ:98:LYS:N	3:AJ:213:LEU:O	2.40	0.47
3:AL:2:ILE:HG12	3:AL:254:LEU:HD11	1.97	0.47
3:AM:7:ILE:HG23	3:AM:71:GLY:HA2	1.96	0.47
6:AW:299:ASN:HD22	11:A9:55:ARG:HH22	1.59	0.47
6:Ae:372:ILE:HG22	10:A2:4:ILE:HG13	1.93	0.47
6:Ao:296:ARG:HG2	6:Ao:296:ARG:HH11	1.79	0.47
6:UL:127:SER:O	6:UL:131:ASN:HB2	2.14	0.47
6:WI:196:HIS:HB3	6:WJ:211:THR:CG2	2.32	0.47
6:BG:318:ASN:O	6:BG:319:GLN:C	2.58	0.47
6:BT:296:ARG:HG2	6:BT:296:ARG:HH11	1.79	0.47
6:BU:296:ARG:HH11	6:BU:296:ARG:HG2	1.79	0.47
6:BV:296:ARG:HG2	6:BV:296:ARG:HH11	1.80	0.47
1:E:184:VAL:HG22	1:E:200:VAL:HG22	1.97	0.47
2:a:177:THR:HG23	2:a:179:PHE:H	1.80	0.47
2:b:177:THR:HG23	2:b:179:PHE:H	1.80	0.47
2:g:266:ARG:HA	2:g:328:LEU:HD22	1.97	0.47
2:p:159:GLN:NE2	2:q:118:GLY:HA3	2.29	0.47
2:t:159:GLN:NE2	2:u:118:GLY:HA3	2.29	0.47
2:y:159:GLN:NE2	2:z:118:GLY:HA3	2.30	0.47
3:ZA:70:THR:HG22	3:ZA:71:GLY:N	2.29	0.47
3:ZC:40:VAL:HG23	3:ZC:75:VAL:HB	1.97	0.47
4:ZG:195:ASP:O	4:ZG:215:SER:OG	2.33	0.47
4:ZJ:183:THR:HG22	4:ZU:131:GLY:O	2.15	0.47
4:ZN:382:TYR:CE1	4:ZS:395:ILE:HG23	2.50	0.47
4:ZQ:33:LYS:O	4:ZQ:59:GLN:NE2	2.48	0.47
4:ZZ:10:LEU:HG	4:ZZ:382:TYR:CZ	2.49	0.47
4:ZZ:99:GLN:HB3	4:ZZ:111:MET:HE3	1.96	0.47
4:Zd:60:ASP:O	4:Zd:365:ASN:ND2	2.48	0.47
4:Ze:269:GLN:HG2	4:Ze:270:ASN:H	1.80	0.47
3:AL:7:ILE:HG12	3:AL:70:THR:O	2.13	0.47
6:AY:372:ILE:HB	10:A3:4:ILE:HG12	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AZ:266:VAL:HG22	6:AZ:387:VAL:HG22	1.95	0.47
6:Ag:296:ARG:HH11	6:Ag:296:ARG:HG2	1.80	0.47
8:At:72:TRP:HE1	8:At:161:SER:HB2	1.80	0.47
8:At:144:LEU:CB	6:WJ:164:LEU:HD23	2.43	0.47
10:A1:48:ARG:HH22	11:A7:6:ASP:CG	2.22	0.47
11:A8:73:ILE:HG22	11:A8:75:ALA:H	1.80	0.47
6:WB:145:GLU:O	6:WB:147:LEU:N	2.48	0.47
6:WW:115:LEU:O	6:WW:116:LEU:C	2.57	0.47
12:BF:86:ASP:OD1	12:BF:86:ASP:N	2.38	0.47
1:A:166:GLU:OE2	1:A:168:GLN:NE2	2.37	0.47
1:D:184:VAL:HG22	1:D:200:VAL:HG22	1.97	0.47
1:I:184:VAL:HG22	1:I:200:VAL:HG22	1.97	0.47
1:O:184:VAL:HG22	1:O:200:VAL:HG22	1.97	0.47
1:Q:184:VAL:HG22	1:Q:200:VAL:HG22	1.97	0.47
2:d:159:GLN:NE2	2:e:118:GLY:HA3	2.29	0.47
2:d:177:THR:HG23	2:d:179:PHE:H	1.80	0.47
2:h:266:ARG:HA	2:h:328:LEU:HD22	1.97	0.47
2:i:266:ARG:HA	2:i:328:LEU:HD22	1.97	0.47
3:6:95:VAL:O	3:6:118:GLY:HA3	2.15	0.47
3:9:128:LEU:HD12	3:9:140:ILE:HB	1.95	0.47
4:ZS:392:GLN:HA	4:ZS:395:ILE:HD12	1.97	0.47
4:ZT:143:LEU:HD21	4:ZT:286:PRO:HB3	1.97	0.47
4:ZX:307:GLU:OE1	4:ZX:307:GLU:O	2.32	0.47
3:AI:113:ALA:HB1	3:AI:191:LEU:HB3	1.96	0.47
7:Ab:17:ALA:HB2	9:Av:195:ILE:HD12	1.96	0.47
6:Ak:296:ARG:HG2	6:Ak:296:ARG:HH11	1.80	0.47
7:Aq:29:LEU:HD23	7:Aq:30:ILE:HD13	1.96	0.47
7:Ar:31:THR:O	7:Ar:35:ILE:HG12	2.14	0.47
8:At:242:HIS:CG	6:WJ:125:GLN:HB2	2.50	0.47
10:A2:48:ARG:NH2	11:A8:6:ASP:OD2	2.48	0.47
11:A6:22:ARG:NH2	11:A6:108:GLN:OE1	2.47	0.47
6:UM:136:LEU:HD23	6:UM:157:LEU:CD1	2.45	0.47
12:BB:14:LEU:HD21	12:BB:116:ILE:HG13	1.97	0.47
6:WF:187:ASP:H	6:WF:190:GLN:CD	2.22	0.47
6:BI:319:GLN:HG2	6:BI:320:PRO:HD2	1.95	0.47
1:F:184:VAL:HG22	1:F:200:VAL:HG22	1.97	0.46
1:L:184:VAL:HG22	1:L:200:VAL:HG22	1.97	0.46
2:c:177:THR:HG23	2:c:179:PHE:H	1.80	0.46
2:f:159:GLN:NE2	2:g:118:GLY:HA3	2.30	0.46
2:f:266:ARG:HA	2:f:328:LEU:HD22	1.98	0.46
2:r:266:ARG:HA	2:r:328:LEU:HD22	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s:159:GLN:NE2	2:t:118:GLY:HA3	2.29	0.46
2:s:266:ARG:HA	2:s:328:LEU:HD22	1.97	0.46
2:t:266:ARG:HA	2:t:328:LEU:HD22	1.97	0.46
2:v:177:THR:HG23	2:v:179:PHE:H	1.80	0.46
2:w:266:ARG:HA	2:w:328:LEU:HD22	1.97	0.46
3:ZA:26:LEU:HD22	4:ZF:384:SER:OG	2.14	0.46
3:ZE:238:ARG:HH22	4:ZK:397:ASN:HB2	1.79	0.46
4:ZG:185:THR:OG1	4:ZR:133:ASN:OD1	2.33	0.46
4:ZG:264:LEU:HD12	4:ZG:265:ASN:N	2.30	0.46
4:ZM:267:MET:HE2	4:ZM:269:GLN:NE2	2.29	0.46
4:ZX:71:ARG:HB3	4:ZX:74:ASP:CG	2.39	0.46
4:ZY:184:VAL:HG13	4:ZY:196:MET:HB2	1.97	0.46
4:Zd:171:SER:O	4:Zd:177:SER:OG	2.30	0.46
4:Ze:352:ASN:OD1	4:Ze:352:ASN:N	2.43	0.46
3:AF:122:VAL:HG23	3:AK:180:ASN:HD22	1.80	0.46
3:AK:188:GLY:O	3:AK:190:ASN:N	2.47	0.46
6:An:296:ARG:HG2	6:An:296:ARG:HH11	1.80	0.46
8:At:103:GLY:O	8:At:106:MET:HB2	2.15	0.46
8:At:145:TRP:HA	6:WJ:164:LEU:HD11	1.97	0.46
9:Aw:138:MET:HE2	9:Aw:170:LEU:HG	1.98	0.46
9:Ay:105:ILE:HD13	10:A4:34:PHE:HZ	1.80	0.46
10:A3:59:PHE:CD2	11:A8:118:MET:HE1	2.50	0.46
11:A0:67:LEU:HD11	11:A0:74:PRO:HA	1.97	0.46
6:UP:127:SER:O	6:UP:131:ASN:HB2	2.14	0.46
6:WG:149:PRO:HG2	6:WG:190:GLN:HE22	1.79	0.46
6:WP:145:GLU:C	6:WP:147:LEU:N	2.72	0.46
6:WU:190:GLN:NE2	6:WV:216:SER:O	2.47	0.46
6:WW:147:LEU:O	6:WW:148:GLY:C	2.59	0.46
12:BF:88:ASN:HB2	12:BF:90:TYR:CD2	2.50	0.46
6:BW:296:ARG:HG2	6:BW:296:ARG:HH11	1.79	0.46
2:d:266:ARG:HA	2:d:328:LEU:HD22	1.97	0.46
2:h:80:GLN:OE1	5:AE:154:THR:HG23	2.15	0.46
2:l:53:THR:CG2	5:AD:153:ASN:ND2	2.65	0.46
2:s:188:GLN:HB2	2:t:101:GLN:HE21	1.79	0.46
2:u:177:THR:HG23	2:u:179:PHE:H	1.80	0.46
2:u:266:ARG:HA	2:u:328:LEU:HD22	1.97	0.46
2:v:188:GLN:HB2	2:w:101:GLN:HE21	1.79	0.46
2:v:266:ARG:HA	2:v:328:LEU:HD22	1.97	0.46
3:0:227:ALA:HA	3:ZB:257:LEU:HD21	1.97	0.46
3:3:194:GLU:OE2	3:3:201:PRO:HD3	2.16	0.46
3:4:85:ASN:OD1	4:ZF:50:LEU:CD2	2.64	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:173:LEU:HD23	3:4:214:LEU:HD13	1.98	0.46
3:8:111:THR:HG21	3:AL:163:GLY:HA2	1.96	0.46
3:ZD:28:ASN:OD1	4:ZI:52:VAL:HG13	2.15	0.46
4:ZI:183:THR:HG22	4:ZI:197:ASN:ND2	2.30	0.46
4:ZS:182:GLY:HA2	4:Zd:131:GLY:HA3	1.97	0.46
4:ZV:101:LYS:HZ1	4:ZV:111:MET:HA	1.80	0.46
4:ZY:194:HIS:CE1	4:ZY:251:ILE:HD12	2.51	0.46
4:Zg:79:GLN:HB2	4:Zg:354:GLY:HA3	1.96	0.46
4:Zh:269:GLN:HG2	4:Zh:270:ASN:H	1.80	0.46
5:AB:217:MET:HE3	3:AG:242:ILE:HD13	1.97	0.46
5:AC:214:VAL:CG2	3:AI:12:LEU:HD13	2.46	0.46
3:AH:122:VAL:HG11	3:AH:142:ILE:HD12	1.97	0.46
6:AT:296:ARG:HG2	6:AT:296:ARG:HH11	1.79	0.46
9:Au:230:ASP:O	9:Au:234:LEU:HG	2.15	0.46
9:Ay:83:ALA:HB3	9:Ay:84:PRO:CD	2.38	0.46
10:A2:7:ILE:O	10:A2:11:ILE:HG23	2.16	0.46
6:UO:136:LEU:HD23	6:UO:157:LEU:CD1	2.45	0.46
12:BA:22:ASN:HD21	12:BF:5:ASN:ND2	2.13	0.46
6:WD:187:ASP:OD1	6:WD:190:GLN:N	2.46	0.46
6:WI:193:ALA:HB1	6:WJ:213:VAL:CG1	2.45	0.46
6:WK:145:GLU:O	6:WK:146:THR:C	2.58	0.46
6:WN:145:GLU:C	6:WN:147:LEU:N	2.74	0.46
6:WP:200:SER:HG	6:WQ:175:SER:HB2	1.78	0.46
2:a:159:GLN:NE2	2:b:118:GLY:HA3	2.29	0.46
2:e:177:THR:HG23	2:e:179:PHE:H	1.80	0.46
2:f:177:THR:HG23	2:f:179:PHE:H	1.80	0.46
2:p:266:ARG:HA	2:p:328:LEU:HD22	1.97	0.46
2:q:266:ARG:HA	2:q:328:LEU:HD22	1.97	0.46
2:u:188:GLN:HB2	2:v:101:GLN:HE21	1.79	0.46
3:1:258:THR:OG1	3:AJ:241:GLU:OE2	2.26	0.46
3:2:184:LEU:HB3	3:2:192:TYR:HB3	1.96	0.46
3:6:45:LEU:HD21	3:AJ:215:TYR:CE2	2.50	0.46
4:ZL:318:ALA:HB1	4:ZL:343:ALA:HB1	1.98	0.46
4:ZT:185:THR:OG1	4:Ze:133:ASN:OD1	2.34	0.46
4:ZW:16:ASN:HB2	4:ZW:39:PHE:HZ	1.80	0.46
4:ZX:96:ARG:NH2	4:ZX:362:GLU:OE2	2.40	0.46
5:AA:109:PRO:HG3	3:AF:197:SER:C	2.41	0.46
5:AB:28:ASN:HD21	3:AG:43:ASP:HB3	1.80	0.46
3:AH:62:LEU:HD23	12:BD:83:PRO:CG	2.43	0.46
3:AL:153:ARG:HE	3:AL:213:LEU:HD13	1.80	0.46
6:AU:296:ARG:HG2	6:AU:296:ARG:HH11	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AY:372:ILE:HG21	10:A3:4:ILE:CG1	2.45	0.46
6:AO:296:ARG:HG2	6:AO:296:ARG:HH11	1.80	0.46
9:Au:151:ALA:CB	6:WP:164:LEU:HD21	2.43	0.46
10:A5:7:ILE:HG21	6:BR:278:THR:HG22	1.88	0.46
11:A8:114:LEU:HD21	12:BD:126:MET:CE	2.45	0.46
6:UJ:73:MET:HE1	6:UJ:99:ARG:HD2	1.94	0.46
6:UN:73:MET:HE3	6:UN:99:ARG:CD	2.41	0.46
6:WF:143:THR:OG1	6:WG:154:ARG:HG2	2.14	0.46
6:WG:112:GLY:HA3	6:WG:139:GLU:OE1	2.15	0.46
6:WK:201:ALA:HA	6:WL:158:ALA:HB2	1.98	0.46
6:WL:159:MET:HE3	6:WL:159:MET:HB2	1.69	0.46
6:WN:197:LEU:CD1	6:WO:175:SER:HB3	2.42	0.46
6:WR:145:GLU:O	6:WR:146:THR:C	2.59	0.46
1:C:184:VAL:HG22	1:C:200:VAL:HG22	1.97	0.46
1:F:84:GLU:OE1	1:G:167:LYS:NZ	2.43	0.46
1:R:184:VAL:HG22	1:R:200:VAL:HG22	1.97	0.46
1:X:166:GLU:OE2	1:X:168:GLN:NE2	2.37	0.46
2:j:266:ARG:HA	2:j:328:LEU:HD22	1.97	0.46
2:q:159:GLN:NE2	2:r:118:GLY:HA3	2.29	0.46
2:t:177:THR:HG23	2:t:179:PHE:H	1.80	0.46
2:t:188:GLN:HB2	2:u:101:GLN:HE21	1.79	0.46
2:u:35:SER:HB2	2:v:123:MET:HE1	1.97	0.46
2:v:159:GLN:NE2	2:w:118:GLY:HA3	2.29	0.46
2:x:266:ARG:HA	2:x:328:LEU:HD22	1.97	0.46
3:4:85:ASN:HA	4:ZF:50:LEU:HD22	1.97	0.46
3:8:41:PHE:HA	3:8:74:PRO:HA	1.96	0.46
3:ZC:7:ILE:HG23	3:ZC:71:GLY:HA2	1.97	0.46
4:ZF:233:ASN:HD21	4:ZF:237:ILE:HB	1.80	0.46
4:ZI:204:LYS:O	4:ZI:205:ASP:C	2.58	0.46
4:ZI:374:ASN:O	4:ZI:376:ILE:N	2.48	0.46
4:ZM:374:ASN:O	4:ZM:375:MET:C	2.59	0.46
4:ZP:367:ASP:O	4:ZP:371:GLU:HG2	2.15	0.46
4:ZS:149:THR:HG21	4:ZS:186:VAL:HG12	1.97	0.46
5:AC:16:LEU:CD2	3:AH:253:MET:CE	2.92	0.46
3:AF:61:THR:OG1	3:AF:62:LEU:N	2.46	0.46
3:AH:11:GLY:O	3:AH:15:GLN:HG2	2.15	0.46
3:AL:95:VAL:O	3:AL:118:GLY:HA3	2.15	0.46
6:AW:296:ARG:HG2	6:AW:296:ARG:HH11	1.79	0.46
6:Af:295:SER:OG	11:A8:65:LEU:HD13	2.14	0.46
6:Af:297:GLN:NE2	11:A8:76:GLN:H	2.12	0.46
6:Ah:296:ARG:HG2	6:Ah:296:ARG:HH11	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Av:59:LEU:O	9:Av:65:THR:OG1	2.21	0.46
10:A1:15:GLN:HG3	10:A1:16:ALA:N	2.30	0.46
6:UJ:136:LEU:HD23	6:UJ:157:LEU:CD1	2.46	0.46
6:UM:73:MET:HE3	6:UM:99:ARG:CD	2.41	0.46
6:WA:170:LYS:H	6:WA:170:LYS:HD2	1.80	0.46
6:WJ:200:SER:O	6:WK:158:ALA:HB2	2.15	0.46
6:WN:135:ALA:O	6:WN:139:GLU:HG2	2.16	0.46
12:BE:47:VAL:HG12	12:BE:67:VAL:HG22	1.96	0.46
1:N:184:VAL:HG22	1:N:200:VAL:HG22	1.97	0.46
1:W:184:VAL:HG22	1:W:200:VAL:HG22	1.97	0.46
1:X:184:VAL:HG22	1:X:200:VAL:HG22	1.97	0.46
2:b:35:SER:HB2	2:c:123:MET:HE1	1.97	0.46
2:c:266:ARG:HA	2:c:328:LEU:HD22	1.97	0.46
2:e:80:GLN:OE1	3:AK:203:GLU:CA	2.63	0.46
2:k:177:THR:HG23	2:k:179:PHE:H	1.80	0.46
2:v:35:SER:HB2	2:w:123:MET:HE1	1.97	0.46
2:z:51:GLN:HE21	2:z:51:GLN:HB3	1.63	0.46
3:5:219:VAL:HG11	3:ZA:38:ARG:HH22	1.80	0.46
3:6:57:SER:CB	3:AK:108:PRO:HG3	2.46	0.46
4:ZJ:24:ILE:O	4:ZJ:27:SER:OG	2.32	0.46
4:ZJ:159:ASN:HB3	4:ZJ:162:ASP:OD2	2.15	0.46
4:ZJ:367:ASP:OD2	4:ZJ:370:LYS:HB2	2.15	0.46
4:ZL:208:TRP:HE1	4:ZL:268:GLN:CD	2.23	0.46
4:ZP:144:MET:SD	4:ZP:306:ASN:ND2	2.77	0.46
4:ZQ:155:GLN:HE21	4:ZQ:277:VAL:HB	1.79	0.46
4:ZQ:160:SER:O	4:ZW:252:ASN:ND2	2.48	0.46
4:ZV:93:PHE:HB3	4:ZV:333:VAL:CG2	2.46	0.46
4:ZY:210:VAL:HB	4:ZY:228:THR:HG22	1.97	0.46
3:AF:122:VAL:HG11	3:AF:142:ILE:HD12	1.97	0.46
6:Am:278:THR:CG2	10:Az:21:ALA:HB3	2.39	0.46
7:Ar:15:LYS:HB2	7:Ar:15:LYS:HE2	1.70	0.46
9:Au:75:ARG:HD3	9:Au:89:LEU:HD11	1.97	0.46
10:A4:48:ARG:NH2	11:A0:6:ASP:OD1	2.49	0.46
6:UL:73:MET:HE1	6:UL:99:ARG:HD2	1.95	0.46
6:WD:190:GLN:NE2	6:WE:216:SER:O	2.49	0.46
6:WE:134:ARG:HB3	6:WE:134:ARG:NH2	2.27	0.46
6:WU:190:GLN:HG2	6:WV:216:SER:O	2.15	0.46
12:BC:114:ALA:O	12:BC:118:VAL:HG23	2.16	0.46
1:D:166:GLU:OE2	1:D:168:GLN:NE2	2.37	0.46
2:c:35:SER:HB2	2:d:123:MET:HE1	1.97	0.46
2:s:177:THR:HG23	2:s:179:PHE:H	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:w:35:SER:HB2	2:x:123:MET:HE1	1.97	0.46
3:0:89:THR:HG23	3:0:91:ASN:H	1.80	0.46
3:5:19:MET:HB2	3:5:236:VAL:HG11	1.97	0.46
3:7:115:THR:HB	3:7:191:LEU:HD23	1.96	0.46
4:ZG:319:ASN:OD1	4:ZG:344:LEU:HB3	2.16	0.46
4:ZO:331:ASP:HA	4:ZT:40:ALA:HB1	1.97	0.46
4:ZR:212:THR:HG21	4:ZR:246:ILE:HG13	1.97	0.46
4:ZR:373:VAL:HG11	4:ZX:7:VAL:HG22	1.97	0.46
4:ZS:317:LEU:HD11	4:ZS:356:LEU:HD21	1.98	0.46
4:ZW:199:TYR:HB2	4:ZW:211:TYR:HB2	1.98	0.46
4:Ze:110:ASN:OD1	4:Ze:114:MET:N	2.49	0.46
5:AB:59:ALA:O	3:AG:66:LEU:HD13	2.15	0.46
3:AG:22:ILE:HG21	3:AG:233:MET:HG3	1.98	0.46
3:AI:32:ASN:HD22	3:AI:219:VAL:HB	1.80	0.46
6:AT:297:GLN:OE1	11:A0:76:GLN:OE1	2.33	0.46
6:AZ:235:LEU:HD13	6:Aa:244:ARG:HH22	1.81	0.46
6:Am:235:LEU:HD13	6:An:244:ARG:HH22	1.81	0.46
9:Au:100:ILE:HG23	9:Au:101:MET:HE2	1.98	0.46
11:A6:113:SER:O	11:A6:117:GLN:HG3	2.15	0.46
11:A7:51:LYS:O	11:A7:55:ARG:HG2	2.16	0.46
6:UN:136:LEU:HD23	6:UN:157:LEU:CD1	2.46	0.46
6:WB:147:LEU:O	6:WB:148:GLY:C	2.58	0.46
6:WE:143:THR:HA	6:WE:146:THR:HG23	1.98	0.46
6:WI:145:GLU:C	6:WI:147:LEU:N	2.74	0.46
6:WK:135:ALA:O	6:WK:139:GLU:HG2	2.16	0.46
6:WO:135:ALA:O	6:WO:139:GLU:HG2	2.16	0.46
6:WT:197:LEU:HA	6:WU:175:SER:OG	2.15	0.46
1:G:184:VAL:HG22	1:G:200:VAL:HG22	1.97	0.46
2:g:177:THR:HG23	2:g:179:PHE:H	1.80	0.46
2:j:177:THR:HG23	2:j:179:PHE:H	1.80	0.46
2:k:266:ARG:HA	2:k:328:LEU:HD22	1.97	0.46
2:o:266:ARG:HA	2:o:328:LEU:HD22	1.97	0.46
2:t:35:SER:HB2	2:u:123:MET:HE1	1.97	0.46
3:1:135:GLN:NE2	3:1:137:GLN:HG2	2.30	0.46
3:5:44:LEU:HD23	3:5:44:LEU:HA	1.77	0.46
3:7:7:ILE:HG23	3:7:71:GLY:HA2	1.95	0.46
3:8:154:ASP:OD1	3:8:154:ASP:N	2.48	0.46
3:8:255:GLN:O	3:8:259:GLN:HG2	2.16	0.46
4:ZH:159:ASN:ND2	4:ZH:162:ASP:OD2	2.46	0.46
4:ZI:109:VAL:HG12	4:ZI:115:GLN:HA	1.97	0.46
4:ZL:140:PRO:HD2	4:ZL:312:LEU:HD22	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZP:16:ASN:HB2	4:ZP:39:PHE:HZ	1.80	0.46
4:ZQ:194:HIS:CE1	4:ZQ:251:ILE:HD12	2.50	0.46
4:ZR:281:GLN:NE2	4:ZR:283:GLY:O	2.47	0.46
4:ZS:180:LYS:HD2	4:ZS:181:LYS:N	2.30	0.46
4:ZS:394:GLN:O	4:ZS:398:THR:HG22	2.16	0.46
4:ZU:107:ASN:ND2	4:ZU:138:THR:HG22	2.31	0.46
4:ZV:391:THR:O	4:ZV:395:ILE:HG12	2.16	0.46
4:ZY:109:VAL:HG12	4:ZY:115:GLN:HA	1.98	0.46
4:Za:93:PHE:HB3	4:Za:333:VAL:HG13	1.97	0.46
4:Ze:95:SER:OG	4:Ze:332:ASN:O	2.24	0.46
4:Zh:374:ASN:HA	4:Zh:377:VAL:HG12	1.98	0.46
5:AA:9:MET:HE1	6:BH:315:ALA:HA	1.98	0.46
3:AK:184:LEU:HB3	3:AK:192:TYR:HB3	1.97	0.46
3:AL:42:GLU:OE1	3:AL:75:VAL:HG21	2.15	0.46
6:AX:372:ILE:HB	10:A3:11:ILE:CG2	2.45	0.46
6:AZ:296:ARG:HG2	6:AZ:296:ARG:HH11	1.80	0.46
6:AQ:235:LEU:HD13	6:BR:244:ARG:HH22	1.81	0.46
8:At:86:PHE:HZ	9:Au:87:GLN:O	1.97	0.46
9:Ay:159:LEU:HD13	9:Ay:165:VAL:HG22	1.98	0.46
11:A0:65:LEU:HG	11:A0:75:ALA:CA	2.46	0.46
6:UJ:98:LEU:HD11	6:UJ:143:THR:O	2.16	0.46
6:UO:73:MET:HE1	6:UO:99:ARG:HD2	1.95	0.46
6:UP:136:LEU:HD23	6:UP:157:LEU:CD1	2.45	0.46
6:WD:135:ALA:O	6:WD:139:GLU:HG2	2.16	0.46
6:BR:296:ARG:HG2	6:BR:296:ARG:HH11	1.80	0.46
6:BV:235:LEU:HD13	6:BW:244:ARG:HH22	1.81	0.46
1:M:184:VAL:HG22	1:M:200:VAL:HG22	1.97	0.46
1:V:184:VAL:HG22	1:V:200:VAL:HG22	1.97	0.46
2:a:35:SER:HB2	2:b:123:MET:HE1	1.97	0.46
2:l:177:THR:HG23	2:l:179:PHE:H	1.80	0.46
2:r:51:GLN:HE21	2:r:51:GLN:HB3	1.63	0.46
2:r:177:THR:HG23	2:r:179:PHE:H	1.80	0.46
2:t:20:GLU:N	2:t:241:ASN:O	2.49	0.46
2:u:51:GLN:HE21	2:u:51:GLN:HB3	1.63	0.46
2:x:20:GLU:N	2:x:241:ASN:O	2.49	0.46
2:y:266:ARG:HA	2:y:328:LEU:HD22	1.97	0.46
3:4:55:GLN:HB3	5:AC:144:SER:OG	2.14	0.46
4:ZH:43:PHE:HD2	4:ZH:49:GLY:HA2	1.81	0.46
4:ZM:109:VAL:HG12	4:ZM:115:GLN:HA	1.98	0.46
4:ZO:196:MET:HE3	4:ZO:248:THR:HG22	1.98	0.46
4:ZP:245:ASN:C	4:ZP:246:ILE:HD13	2.40	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZQ:93:PHE:HB3	4:ZQ:333:VAL:HG13	1.97	0.46
4:ZS:34:SER:HB3	4:ZS:366:VAL:HG22	1.98	0.46
4:ZS:105:ASN:HB2	4:ZS:107:ASN:ND2	2.30	0.46
4:ZS:143:LEU:HD23	4:ZS:143:LEU:H	1.80	0.46
4:ZS:156:ILE:HG13	4:ZS:276:ILE:HA	1.98	0.46
4:ZT:16:ASN:HB2	4:ZT:39:PHE:HZ	1.81	0.46
4:ZW:373:VAL:HG11	4:Zc:7:VAL:HG22	1.98	0.46
4:ZZ:5:GLN:HG2	4:ZZ:50:LEU:O	2.16	0.46
4:Za:139:ILE:HA	4:Za:312:LEU:HD22	1.98	0.46
5:AB:70:GLN:HG3	3:AM:6:TRP:NE1	2.30	0.46
6:AR:235:LEU:HD13	6:Ac:244:ARG:HH22	1.81	0.46
6:AS:235:LEU:HD13	6:AT:244:ARG:HH22	1.81	0.46
6:AW:235:LEU:HD13	6:AX:244:ARG:HH22	1.81	0.46
7:Ab:75:ASP:OD1	6:WQ:124:SER:OG	2.33	0.46
6:Aj:235:LEU:HD13	6:Ak:244:ARG:HH22	1.81	0.46
6:Ap:235:LEU:HD13	6:AO:244:ARG:HH22	1.81	0.46
7:Ar:85:PRO:HG3	9:Ax:238:SER:HA	1.97	0.46
9:Ax:138:MET:O	9:Ax:142:THR:OG1	2.28	0.46
6:UM:98:LEU:HD12	6:UM:146:THR:HG1	1.80	0.46
6:WC:135:ALA:O	6:WC:139:GLU:HG2	2.16	0.46
6:WK:197:LEU:HD13	6:WL:175:SER:OG	2.16	0.46
12:BC:43:ARG:HD2	12:BC:69:GLU:OE2	2.14	0.46
1:H:184:VAL:HG22	1:H:200:VAL:HG22	1.97	0.46
1:U:184:VAL:HG22	1:U:200:VAL:HG22	1.97	0.46
1:Y:184:VAL:HG22	1:Y:200:VAL:HG22	1.97	0.46
2:a:20:GLU:N	2:a:241:ASN:O	2.49	0.46
2:b:266:ARG:HA	2:b:328:LEU:HD22	1.97	0.46
2:p:20:GLU:N	2:p:241:ASN:O	2.49	0.46
2:w:20:GLU:N	2:w:241:ASN:O	2.49	0.46
3:ZE:5:LEU:HB2	3:ZE:250:THR:HG21	1.98	0.46
4:ZG:230:LEU:HB3	4:ZG:238:LEU:HD11	1.98	0.46
4:ZH:83:PHE:HB2	4:ZH:95:SER:O	2.15	0.46
4:ZY:268:GLN:NE2	4:Ze:190:GLN:HE22	2.12	0.46
4:ZZ:109:VAL:HG12	4:ZZ:115:GLN:HA	1.98	0.46
4:Zh:69:THR:OG1	4:Zh:74:ASP:OD1	2.29	0.46
5:AC:225:ARG:HA	5:AC:225:ARG:HD3	1.67	0.46
5:AD:9:MET:HE1	6:BN:315:ALA:HA	1.97	0.46
5:AE:250:MET:C	12:BF:123:LYS:HD2	2.40	0.46
3:AF:73:ARG:HB2	12:BA:78:TYR:CE2	2.51	0.46
3:AG:188:GLY:O	3:AG:190:ASN:N	2.49	0.46
3:AK:260:LEU:HB3	12:BF:106:MET:HE1	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AS:244:ARG:HH22	6:BX:235:LEU:HD13	1.81	0.46
6:AU:235:LEU:HD13	6:AV:244:ARG:HH22	1.81	0.46
8:At:108:LEU:HA	8:At:108:LEU:HD23	1.76	0.46
9:Au:150:PHE:CZ	9:Au:172:PRO:HB2	2.51	0.46
9:Av:171:LEU:HB3	9:Av:172:PRO:HD3	1.97	0.46
9:Ay:159:LEU:O	6:WI:165:PHE:HB2	2.16	0.46
6:UK:136:LEU:HD23	6:UK:157:LEU:CD1	2.45	0.46
6:UL:136:LEU:HD23	6:UL:157:LEU:CD1	2.45	0.46
6:WF:196:HIS:CD2	6:WG:219:LEU:HD22	2.50	0.46
6:WF:200:SER:O	6:WG:158:ALA:HB2	2.16	0.46
6:WW:135:ALA:O	6:WW:139:GLU:HG2	2.16	0.46
6:WW:187:ASP:N	6:WW:190:GLN:HB2	2.31	0.46
12:BF:3:LEU:HB2	6:BG:319:GLN:HE21	1.80	0.46
2:d:35:SER:HB2	2:e:123:MET:HE1	1.97	0.46
2:e:319:LEU:HD23	2:f:332:VAL:HA	1.98	0.46
2:h:177:THR:HG23	2:h:179:PHE:H	1.80	0.46
2:n:159:GLN:NE2	2:o:118:GLY:HA3	2.30	0.46
2:n:266:ARG:HA	2:n:328:LEU:HD22	1.97	0.46
2:p:177:THR:HG23	2:p:179:PHE:H	1.80	0.46
2:s:20:GLU:N	2:s:241:ASN:O	2.49	0.46
3:2:3:SER:OG	3:AF:85:ASN:ND2	2.39	0.46
3:2:79:ARG:HH11	3:2:79:ARG:HG3	1.81	0.46
3:2:244:SER:HG	3:7:256:LYS:NZ	2.10	0.46
3:4:45:LEU:CD2	3:AH:98:LYS:HG2	2.45	0.46
4:ZK:262:SER:OG	4:ZK:264:LEU:HG	2.15	0.46
4:ZO:156:ILE:HA	4:ZO:277:VAL:HG23	1.98	0.46
4:ZR:184:VAL:HG13	4:ZR:196:MET:HB2	1.98	0.46
4:ZT:18:ASP:HB3	4:ZY:5:GLN:HE22	1.80	0.46
4:ZU:10:LEU:HD23	4:ZU:10:LEU:HA	1.84	0.46
4:ZY:57:ILE:HD12	4:Zd:47:LYS:HB2	1.98	0.46
4:Ze:44:ALA:HB3	4:Ze:50:LEU:HD11	1.98	0.46
5:AC:235:THR:OG1	3:AH:260:LEU:HD12	2.16	0.46
3:AF:9:LYS:HB2	12:BF:103:VAL:HG21	1.98	0.46
3:AF:205:THR:HB	3:AF:208:LEU:HD12	1.98	0.46
3:AG:36:ARG:HD3	3:AG:80:LEU:HD22	1.97	0.46
3:AH:135:GLN:NE2	3:AH:137:GLN:OE1	2.48	0.46
3:AI:115:THR:HB	3:AI:191:LEU:HD23	1.97	0.46
7:Ab:84:LEU:HD21	9:Av:185:ILE:HG23	1.97	0.46
6:Ad:235:LEU:HD13	6:Ae:244:ARG:HH22	1.81	0.46
6:AO:235:LEU:HD13	6:AP:244:ARG:HH22	1.81	0.46
7:Ar:24:LEU:HD11	7:Ar:62:ILE:HD11	1.96	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Av:97:THR:O	9:Av:101:MET:HG2	2.16	0.46
9:Av:158:PRO:HD3	6:WU:167:ARG:NH1	2.30	0.46
10:A4:14:LEU:CD2	6:BW:278:THR:HG21	2.46	0.46
6:UK:73:MET:HE1	6:UK:99:ARG:HD2	1.95	0.46
6:WH:197:LEU:HA	6:WI:175:SER:CB	2.46	0.46
6:BR:235:LEU:HD13	6:BS:244:ARG:HH22	1.81	0.46
1:B:184:VAL:HG22	1:B:200:VAL:HG22	1.97	0.45
1:V:166:GLU:OE2	1:V:168:GLN:NE2	2.37	0.45
2:b:20:GLU:N	2:b:241:ASN:O	2.49	0.45
2:d:319:LEU:HD23	2:e:332:VAL:HA	1.99	0.45
2:i:177:THR:HG23	2:i:179:PHE:H	1.80	0.45
2:l:20:GLU:N	2:l:241:ASN:O	2.49	0.45
2:m:177:THR:HG23	2:m:179:PHE:H	1.80	0.45
2:q:177:THR:HG23	2:q:179:PHE:H	1.80	0.45
2:x:319:LEU:HD23	2:y:332:VAL:HA	1.99	0.45
2:y:319:LEU:HD23	2:z:332:VAL:HA	1.99	0.45
2:z:266:ARG:HA	2:z:328:LEU:HD22	1.97	0.45
3:3:215:TYR:CE2	3:ZE:45:LEU:HD21	2.52	0.45
3:4:95:VAL:O	3:4:118:GLY:HA3	2.16	0.45
3:5:245:LYS:HE2	3:5:245:LYS:HB2	1.52	0.45
3:6:57:SER:OG	3:AK:108:PRO:HG3	2.16	0.45
3:8:40:VAL:O	3:8:75:VAL:N	2.44	0.45
3:8:56:SER:O	3:AG:152:GLY:HA3	2.17	0.45
4:ZG:181:LYS:HE2	4:ZR:129:GLN:HE21	1.80	0.45
4:ZK:93:PHE:HB3	4:ZK:333:VAL:HG13	1.98	0.45
4:ZL:106:ARG:HD3	4:ZL:140:PRO:HA	1.97	0.45
4:ZN:202:LYS:HZ3	4:ZN:203:THR:C	2.24	0.45
4:ZU:109:VAL:HG12	4:ZU:115:GLN:HA	1.98	0.45
4:ZW:74:ASP:O	4:ZW:359:GLY:N	2.49	0.45
4:ZW:314:GLN:NE2	4:ZW:347:THR:OG1	2.49	0.45
4:ZY:17:LEU:HD13	4:Zd:395:ILE:CD1	2.45	0.45
4:ZY:83:PHE:HB2	4:ZY:95:SER:O	2.16	0.45
4:ZZ:99:GLN:HE21	4:ZZ:111:MET:HE3	1.82	0.45
4:Zc:93:PHE:CD1	4:Zc:114:MET:HE1	2.50	0.45
4:Zf:5:GLN:HG2	4:Zf:50:LEU:O	2.15	0.45
5:AB:184:GLU:OE1	3:AG:55:GLN:OE1	2.34	0.45
5:AD:109:PRO:HG3	3:AI:197:SER:C	2.41	0.45
5:AE:9:MET:HB2	12:BE:103:VAL:HG21	1.97	0.45
3:AN:151:ILE:HG12	3:AN:157:VAL:HG22	1.97	0.45
6:Ae:235:LEU:HD13	6:Af:244:ARG:HH22	1.81	0.45
6:Al:294:ARG:CG	11:A7:66:THR:OG1	2.64	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UL:98:LEU:HD11	6:UL:143:THR:O	2.16	0.45
6:UN:103:GLN:CG	6:WS:182:PRO:HB3	2.44	0.45
6:WG:135:ALA:O	6:WG:139:GLU:HG2	2.16	0.45
6:WI:147:LEU:O	6:WI:148:GLY:C	2.60	0.45
6:WK:145:GLU:O	6:WK:147:LEU:N	2.49	0.45
6:WN:200:SER:HB2	6:WO:173:SER:CB	2.45	0.45
6:WP:190:GLN:C	6:WP:192:SER:N	2.73	0.45
1:S:184:VAL:HG22	1:S:200:VAL:HG22	1.97	0.45
2:a:123:MET:HE1	2:z:35:SER:HB2	1.97	0.45
2:e:20:GLU:N	2:e:241:ASN:O	2.49	0.45
2:h:51:GLN:HE21	2:h:51:GLN:HB3	1.63	0.45
2:l:266:ARG:HA	2:l:328:LEU:HD22	1.97	0.45
2:o:20:GLU:N	2:o:241:ASN:O	2.49	0.45
2:o:35:SER:HB2	2:p:123:MET:HE1	1.97	0.45
2:u:20:GLU:N	2:u:241:ASN:O	2.49	0.45
3:1:252:GLN:NE2	3:AK:237:GLN:HE22	2.14	0.45
3:5:29:VAL:O	3:5:222:SER:OG	2.33	0.45
3:6:1:MET:HE3	3:6:1:MET:HB2	1.86	0.45
4:ZH:75:VAL:HG13	4:ZH:356:LEU:HB3	1.98	0.45
4:ZI:197:ASN:HD22	4:ZI:197:ASN:N	2.14	0.45
4:ZJ:233:ASN:ND2	4:ZJ:235:ASN:H	2.14	0.45
4:ZL:104:GLU:H	4:ZL:104:GLU:CD	2.23	0.45
4:ZZ:63:ASP:OD2	4:ZZ:79:GLN:N	2.50	0.45
4:ZZ:208:TRP:NE1	4:ZZ:268:GLN:OE1	2.38	0.45
4:Za:81:GLY:HA3	4:Za:317:LEU:HD23	1.97	0.45
4:Zd:5:GLN:HG2	4:Zd:50:LEU:O	2.17	0.45
4:Zd:93:PHE:HB3	4:Zd:333:VAL:HG13	1.97	0.45
5:AB:151:PRO:HB2	5:AB:154:THR:CG2	2.44	0.45
5:AE:213:PRO:HB3	3:AJ:242:ILE:CD1	2.46	0.45
3:AI:229:GLU:O	3:AI:233:MET:HG3	2.15	0.45
3:AJ:130:THR:OG1	3:AJ:131:ALA:N	2.50	0.45
3:AL:249:THR:O	3:AL:253:MET:HG3	2.16	0.45
6:AX:235:LEU:HD13	6:AY:244:ARG:HH22	1.81	0.45
6:Ag:235:LEU:HD13	6:Ah:244:ARG:HH22	1.81	0.45
7:As:7:MET:HA	7:As:7:MET:HE3	1.97	0.45
9:Aw:109:TYR:HA	9:Aw:113:TYR:HB3	1.98	0.45
10:Az:86:ILE:HG12	10:A5:102:MET:CE	2.46	0.45
6:UI:94:HIS:HB2	6:UI:146:THR:HG21	1.97	0.45
6:UO:94:HIS:HB2	6:UO:146:THR:HG21	1.97	0.45
6:WE:135:ALA:O	6:WE:139:GLU:HG2	2.16	0.45
6:WP:142:ARG:O	6:WP:146:THR:HG23	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WP:197:LEU:CD1	6:WQ:175:SER:OG	2.58	0.45
1:H:166:GLU:OE2	1:H:168:GLN:NE2	2.37	0.45
1:Z:184:VAL:HG22	1:Z:200:VAL:HG22	1.97	0.45
2:a:266:ARG:HA	2:a:328:LEU:HD22	1.97	0.45
2:j:319:LEU:HD23	2:k:332:VAL:HA	1.99	0.45
2:k:319:LEU:HD23	2:l:332:VAL:HA	1.99	0.45
2:o:177:THR:HG23	2:o:179:PHE:H	1.80	0.45
2:p:35:SER:HB2	2:q:123:MET:HE1	1.97	0.45
2:q:20:GLU:N	2:q:241:ASN:O	2.49	0.45
2:r:319:LEU:HD23	2:s:332:VAL:HA	1.98	0.45
2:v:20:GLU:N	2:v:241:ASN:O	2.49	0.45
2:x:35:SER:HB2	2:y:123:MET:HE1	1.97	0.45
3:5:184:LEU:HB3	3:5:192:TYR:HB3	1.99	0.45
3:6:242:ILE:HD12	3:ZC:1:MET:HE1	1.96	0.45
3:7:19:MET:HB2	3:7:236:VAL:HG11	1.99	0.45
4:ZM:213:HIS:HB2	4:ZM:223:PRO:HG3	1.99	0.45
4:ZN:159:ASN:ND2	4:ZN:162:ASP:OD2	2.49	0.45
4:ZP:83:PHE:O	4:ZP:94:TYR:HA	2.16	0.45
4:ZY:210:VAL:O	4:ZY:227:SER:N	2.49	0.45
4:Za:104:GLU:OE2	4:Zf:341:GLY:HA2	2.15	0.45
4:Zc:10:LEU:HD12	4:Zc:10:LEU:HA	1.71	0.45
4:Zd:93:PHE:HB2	4:Zd:114:MET:HE1	1.98	0.45
4:Ze:380:ARG:HA	4:Ze:380:ARG:HD3	1.64	0.45
4:Ze:383:GLN:O	4:Ze:387:GLN:HG2	2.16	0.45
4:Zh:2:SER:OG	4:Zh:392:GLN:NE2	2.49	0.45
5:AA:235:THR:OG1	3:AF:260:LEU:HD11	2.15	0.45
5:AB:28:ASN:OD1	3:AG:72:VAL:HB	2.16	0.45
5:AB:71:LEU:HB2	3:AM:70:THR:HG21	1.98	0.45
5:AC:53:THR:HG22	12:BD:67:VAL:HG21	1.97	0.45
6:AT:235:LEU:HD13	6:AU:244:ARG:HH22	1.81	0.45
6:AY:370:ARG:NH2	10:A3:7:ILE:HD11	2.30	0.45
6:Ai:235:LEU:HD13	6:Aj:244:ARG:HH22	1.81	0.45
6:Ak:235:LEU:HD13	6:Al:244:ARG:HH22	1.81	0.45
8:At:158:PRO:HD2	8:At:162:ASN:ND2	2.32	0.45
9:Av:205:MET:CE	9:Aw:209:MET:HA	2.45	0.45
9:Ax:48:ILE:HD11	10:A4:89:ARG:HH12	1.81	0.45
9:Ax:190:PHE:CD1	9:Ay:220:PRO:HG3	2.52	0.45
10:A3:69:ASN:HB2	11:A9:16:LEU:HD23	1.98	0.45
6:WU:181:GLU:O	6:WU:182:PRO:C	2.60	0.45
1:I:166:GLU:OE2	1:I:168:GLN:NE2	2.37	0.45
2:a:332:VAL:HA	2:z:319:LEU:HD23	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:319:LEU:HD23	2:d:332:VAL:HA	1.99	0.45
2:h:20:GLU:N	2:h:241:ASN:O	2.49	0.45
2:h:35:SER:HB2	2:i:123:MET:HE1	1.97	0.45
2:i:20:GLU:N	2:i:241:ASN:O	2.49	0.45
2:i:35:SER:HB2	2:j:123:MET:HE1	1.97	0.45
2:m:20:GLU:N	2:m:241:ASN:O	2.49	0.45
2:m:266:ARG:HA	2:m:328:LEU:HD22	1.97	0.45
2:n:177:THR:HG23	2:n:179:PHE:H	1.80	0.45
2:w:319:LEU:HD23	2:x:332:VAL:HA	1.99	0.45
2:y:20:GLU:N	2:y:241:ASN:O	2.49	0.45
3:2:180:ASN:ND2	3:AL:122:VAL:O	2.49	0.45
3:6:57:SER:HB3	3:AK:108:PRO:HG3	1.97	0.45
3:7:128:LEU:HD23	3:7:128:LEU:HA	1.82	0.45
3:ZD:59:GLN:N	3:ZD:59:GLN:OE1	2.49	0.45
3:ZE:238:ARG:NE	4:ZK:393:ASP:OD1	2.50	0.45
4:ZG:154:MET:HB3	4:ZG:154:MET:HE2	1.73	0.45
4:ZM:217:ASP:HB3	4:ZM:220:ALA:HB2	1.98	0.45
4:ZX:144:MET:HE3	4:ZX:284:TYR:CE1	2.51	0.45
4:ZX:230:LEU:HD22	4:ZX:238:LEU:HD11	1.98	0.45
4:ZY:17:LEU:CD1	4:Zd:395:ILE:HD11	2.46	0.45
5:AC:217:MET:HE2	3:AN:258:THR:HA	1.94	0.45
5:AD:16:LEU:CD2	3:AI:253:MET:HE2	2.43	0.45
3:AG:6:TRP:CE2	12:BB:77:VAL:HG12	2.41	0.45
3:AK:44:LEU:HB2	3:AK:70:THR:HB	1.97	0.45
3:AK:176:THR:OG1	3:AK:203:GLU:OE2	2.35	0.45
3:AM:120:PHE:CD1	3:AM:136:VAL:HG21	2.52	0.45
3:AN:238:ARG:O	3:AN:242:ILE:HG12	2.17	0.45
7:Ab:8:MET:HE3	6:WS:124:SER:HB2	1.95	0.45
6:Ac:235:LEU:HD13	6:Ad:244:ARG:HH22	1.81	0.45
6:Al:235:LEU:HD13	6:Am:244:ARG:HH22	1.81	0.45
7:As:14:MET:HE2	8:At:229:MET:SD	2.56	0.45
9:Aw:66:ARG:HB2	9:Aw:178:GLU:OE1	2.17	0.45
9:Aw:152:ARG:NH2	6:WC:164:LEU:HB3	2.30	0.45
11:A8:33:ALA:O	11:A8:98:ASN:ND2	2.50	0.45
11:A9:115:LYS:HE2	12:BE:4:LEU:HD21	1.97	0.45
6:UL:164:LEU:HD22	6:UL:164:LEU:H	1.81	0.45
6:UP:98:LEU:HD11	6:UP:143:THR:O	2.16	0.45
6:WB:164:LEU:HD23	6:WB:164:LEU:HA	1.75	0.45
6:WC:193:ALA:HB1	6:WD:213:VAL:HG21	1.98	0.45
6:WH:139:GLU:HB3	6:WI:154:ARG:HH21	1.80	0.45
6:WH:145:GLU:O	6:WH:146:THR:C	2.57	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WI:197:LEU:HD13	6:WJ:175:SER:OG	2.09	0.45
6:WL:181:GLU:O	6:WL:182:PRO:C	2.60	0.45
6:WM:135:ALA:O	6:WM:139:GLU:HG2	2.16	0.45
6:WM:181:GLU:O	6:WM:182:PRO:C	2.60	0.45
6:WP:135:ALA:O	6:WP:139:GLU:HG2	2.16	0.45
6:WQ:160:PRO:HG2	6:WQ:170:LYS:O	2.16	0.45
6:WU:112:GLY:HA2	6:WU:139:GLU:OE1	2.17	0.45
1:A:184:VAL:HG22	1:A:200:VAL:HG22	1.97	0.45
1:U:166:GLU:OE2	1:U:168:GLN:NE2	2.37	0.45
2:d:20:GLU:N	2:d:241:ASN:O	2.49	0.45
2:e:51:GLN:HE21	2:e:51:GLN:HB3	1.63	0.45
2:f:20:GLU:N	2:f:241:ASN:O	2.49	0.45
2:f:319:LEU:HD23	2:g:332:VAL:HA	1.98	0.45
2:m:35:SER:HB2	2:n:123:MET:HE1	1.97	0.45
2:n:35:SER:HB2	2:o:123:MET:HE1	1.97	0.45
2:s:35:SER:HB2	2:t:123:MET:HE1	1.97	0.45
2:s:319:LEU:HD23	2:t:332:VAL:HA	1.99	0.45
3:4:45:LEU:HD22	3:AH:98:LYS:HG2	1.98	0.45
3:ZC:95:VAL:HG11	3:ZC:214:LEU:HD23	1.98	0.45
3:ZD:54:ALA:HB1	3:AL:150:THR:HG21	1.98	0.45
3:ZD:122:VAL:O	4:ZI:322:ASN:ND2	2.48	0.45
4:ZF:117:THR:HA	4:ZF:136:PRO:HA	1.97	0.45
4:ZG:71:ARG:O	4:ZG:359:GLY:HA2	2.16	0.45
4:ZI:75:VAL:HG11	4:ZI:356:LEU:HD13	1.98	0.45
4:ZJ:265:ASN:OD1	4:ZJ:265:ASN:O	2.35	0.45
4:ZM:139:ILE:HA	4:ZM:312:LEU:HD13	1.97	0.45
4:ZN:380:ARG:HA	4:ZN:380:ARG:HD3	1.68	0.45
4:ZO:180:LYS:HB3	4:ZO:200:PHE:HB2	1.98	0.45
4:ZQ:233:ASN:ND2	4:ZQ:239:GLU:HB3	2.31	0.45
4:ZR:204:LYS:HG2	4:ZR:205:ASP:N	2.32	0.45
4:ZR:288:ASP:N	4:ZR:305:SER:OG	2.43	0.45
4:ZS:10:LEU:HD11	4:ZS:382:TYR:CE1	2.52	0.45
4:ZT:380:ARG:HD3	4:ZT:380:ARG:HA	1.76	0.45
4:ZZ:112:GLN:OE1	4:ZZ:112:GLN:N	2.50	0.45
4:Zc:210:VAL:HB	4:Zc:228:THR:HG22	1.99	0.45
5:AA:110:THR:HG23	5:AA:112:GLN:HG2	1.97	0.45
5:AB:29:ALA:HB1	3:AM:1:MET:HE3	1.98	0.45
3:AH:157:VAL:HB	3:AH:171:GLY:CA	2.42	0.45
3:AL:3:SER:O	3:AL:4:SER:C	2.59	0.45
3:AN:47:GLN:HG2	3:AN:68:ILE:HB	1.99	0.45
6:AY:235:LEU:HD13	6:AZ:244:ARG:HH22	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ab:58:VAL:HG21	9:Av:207:LEU:HD21	1.97	0.45
6:An:235:LEU:HD13	6:Ao:244:ARG:HH22	1.81	0.45
7:As:9:MET:HE1	9:Ay:188:THR:HB	1.99	0.45
10:A5:61:LEU:HD21	11:A0:50:LYS:NZ	2.31	0.45
11:A6:104:ARG:O	11:A6:108:GLN:HG2	2.17	0.45
11:A0:130:MET:HE2	11:A0:130:MET:HB2	1.87	0.45
6:Ui:136:LEU:HD23	6:Ui:157:LEU:CD1	2.45	0.45
6:UJ:88:VAL:O	6:UJ:89:PRO:C	2.60	0.45
6:UK:98:LEU:HD11	6:UK:143:THR:O	2.16	0.45
6:UM:164:LEU:HD22	6:UM:164:LEU:H	1.82	0.45
6:UN:52:ARG:O	6:UN:88:VAL:N	2.38	0.45
6:WA:217:GLY:HA3	6:WW:190:GLN:HG2	1.98	0.45
6:WC:131:ASN:O	6:WC:132:TYR:C	2.60	0.45
6:WD:145:GLU:C	6:WD:147:LEU:N	2.75	0.45
6:WF:114:GLU:HA	6:WF:117:ASP:HB2	1.98	0.45
6:WF:128:GLU:CG	6:WG:126:PHE:CD2	2.98	0.45
6:WG:190:GLN:HG3	6:WH:217:GLY:HA3	1.99	0.45
6:WJ:181:GLU:O	6:WJ:182:PRO:C	2.60	0.45
6:WP:147:LEU:O	6:WP:148:GLY:C	2.58	0.45
6:WQ:135:ALA:O	6:WQ:139:GLU:HG2	2.16	0.45
6:WR:181:GLU:O	6:WR:182:PRO:C	2.60	0.45
6:WS:137:GLU:HG3	6:WS:155:VAL:O	2.16	0.45
6:WT:190:GLN:HG2	6:WU:217:GLY:HA3	1.99	0.45
6:WV:135:ALA:O	6:WV:139:GLU:HG2	2.16	0.45
6:BT:235:LEU:HD13	6:BU:244:ARG:HH22	1.81	0.45
1:T:184:VAL:HG22	1:T:200:VAL:HG22	1.97	0.45
1:V:84:GLU:OE1	1:W:167:LYS:NZ	2.42	0.45
2:i:319:LEU:HD23	2:j:332:VAL:HA	1.99	0.45
2:k:35:SER:HB2	2:l:123:MET:HE1	1.97	0.45
2:k:51:GLN:HE21	2:k:51:GLN:HB3	1.63	0.45
2:l:35:SER:HB2	2:m:123:MET:HE1	1.97	0.45
2:l:319:LEU:HD23	2:m:332:VAL:HA	1.99	0.45
2:q:319:LEU:HD23	2:r:332:VAL:HA	1.99	0.45
2:z:20:GLU:N	2:z:241:ASN:O	2.49	0.45
3:0:129:VAL:HG12	3:0:135:GLN:HA	1.97	0.45
3:4:1:MET:HE3	3:AH:226:VAL:HG21	1.98	0.45
3:7:106:MET:HE3	3:7:110:GLY:HA2	1.98	0.45
3:ZB:233:MET:SD	4:ZG:388:THR:HA	2.56	0.45
3:ZC:88:GLN:NE2	4:ZN:53:LYS:HB2	2.30	0.45
4:ZH:162:ASP:O	4:ZH:202:LYS:NZ	2.33	0.45
4:ZP:396:LEU:HD23	4:ZP:396:LEU:HA	1.76	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZR:316:VAL:HG21	4:ZR:345:LEU:HD23	1.98	0.45
4:ZS:27:SER:O	4:ZS:364:SER:OG	2.34	0.45
4:ZV:119:TYR:HB2	4:ZV:314:GLN:HB3	1.99	0.45
5:AA:213:PRO:HG3	3:AL:1:MET:CE	2.46	0.45
3:AF:7:ILE:HG12	3:AF:70:THR:O	2.16	0.45
3:AG:185:GLU:HG3	3:AL:67:GLN:HE22	1.82	0.45
3:AL:147:LEU:HD11	3:AL:162:GLN:HB2	1.98	0.45
6:AX:361:ASN:ND2	11:A9:78:VAL:CG1	2.78	0.45
10:A3:15:GLN:HG3	10:A3:16:ALA:N	2.30	0.45
10:A4:15:GLN:HG3	10:A4:16:ALA:N	2.30	0.45
10:A5:64:PRO:CG	6:BG:322:PRO:HB3	2.47	0.45
6:UI:88:VAL:O	6:UI:89:PRO:C	2.60	0.45
6:WA:187:ASP:OD2	6:WA:190:GLN:HG3	2.16	0.45
6:WT:135:ALA:O	6:WT:139:GLU:HG2	2.16	0.45
6:WV:190:GLN:HG2	6:WW:217:GLY:HA3	1.97	0.45
6:WW:219:LEU:HG	6:WW:221:THR:H	1.82	0.45
1:Z:166:GLU:OE2	1:Z:168:GLN:NE2	2.37	0.45
3:0:21:VAL:HG21	3:0:39:ALA:HB2	1.99	0.45
3:3:10:THR:OG1	3:3:71:GLY:HA3	2.17	0.45
3:3:189:GLU:HA	3:8:42:GLU:CD	2.42	0.45
3:9:35:LYS:NZ	3:9:220:GLU:OE2	2.48	0.45
4:ZK:210:VAL:HB	4:ZK:228:THR:HG22	1.98	0.45
4:ZL:160:SER:HA	4:ZL:268:GLN:HE21	1.82	0.45
4:ZN:87:ASP:OD2	4:ZN:88:SER:N	2.39	0.45
4:ZR:179:ASN:N	4:ZR:200:PHE:O	2.45	0.45
4:ZX:188:ASP:HA	4:ZX:257:ALA:HB2	1.99	0.45
4:ZY:33:LYS:NZ	4:ZY:362:GLU:OE2	2.49	0.45
4:Za:157:ASN:ND2	4:Zg:143:LEU:HD13	2.31	0.45
4:Zd:3:PHE:O	4:Zd:7:VAL:HG13	2.16	0.45
4:Zd:116:LEU:HD12	4:Zd:117:THR:H	1.80	0.45
5:AB:240:ASN:ND2	12:BC:113:GLN:HE21	2.14	0.45
5:AC:82:LEU:HD13	5:AC:201:ILE:HG22	1.97	0.45
3:AG:16:GLN:HE21	3:AG:16:GLN:HB2	1.48	0.45
3:AN:198:SER:O	3:AN:198:SER:OG	2.31	0.45
7:As:60:ILE:O	7:As:64:VAL:HG22	2.17	0.45
9:Av:59:LEU:HD11	10:A1:102:MET:HE1	1.99	0.45
9:Aw:90:LEU:HG	10:A2:104:VAL:CG2	2.47	0.45
9:Ay:221:PHE:O	9:Ay:224:MET:HE2	2.17	0.45
9:Ay:239:LEU:HD12	9:Ay:239:LEU:HA	1.84	0.45
11:A6:11:PHE:HD1	11:A6:53:MET:HE2	1.82	0.45
11:A8:128:LYS:HE2	12:BC:134:GLN:HG2	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UK:80:ALA:N	6:UK:85:ALA:O	2.49	0.45
6:UK:207:PRO:HG2	6:WE:187:ASP:OD1	2.10	0.45
6:WC:169:GLN:NE2	6:WC:170:LYS:O	2.44	0.45
6:WD:129:GLN:O	6:WD:130:VAL:C	2.60	0.45
6:WJ:135:ALA:O	6:WJ:139:GLU:HG2	2.16	0.45
6:WP:181:GLU:O	6:WP:182:PRO:C	2.60	0.45
6:WT:181:GLU:O	6:WT:182:PRO:C	2.60	0.45
6:WW:181:GLU:O	6:WW:182:PRO:C	2.60	0.45
2:a:43:VAL:HG23	2:z:108:SER:CB	2.47	0.45
2:g:35:SER:HB2	2:h:123:MET:HE1	1.97	0.45
2:j:35:SER:HB2	2:k:123:MET:HE1	1.97	0.45
2:q:35:SER:HB2	2:r:123:MET:HE1	1.97	0.45
2:r:20:GLU:N	2:r:241:ASN:O	2.49	0.45
2:t:319:LEU:HD23	2:u:332:VAL:HA	1.98	0.45
3:0:112:SER:HB3	3:0:137:GLN:NE2	2.31	0.45
3:0:184:LEU:HB3	3:0:192:TYR:HB3	1.98	0.45
3:1:238:ARG:O	3:1:242:ILE:HG12	2.17	0.45
3:1:239:ALA:HB2	3:7:1:MET:HE1	1.98	0.45
3:3:98:LYS:HB3	3:3:213:LEU:HB2	1.98	0.45
3:4:9:LYS:HE3	3:AM:228:GLU:HG3	1.99	0.45
3:4:50:ARG:HH21	3:AN:73:ARG:HH22	1.63	0.45
3:7:94:ASP:OD2	3:ZC:38:ARG:NH1	2.43	0.45
3:8:70:THR:HG22	3:8:71:GLY:N	2.30	0.45
3:ZB:8:ALA:HB1	3:ZB:247:VAL:HG23	1.99	0.45
3:ZC:95:VAL:O	3:ZC:118:GLY:HA3	2.17	0.45
4:ZI:352:ASN:OD1	4:ZI:352:ASN:N	2.49	0.45
4:ZL:269:GLN:HG2	4:ZR:286:PRO:HG2	1.98	0.45
4:ZM:246:ILE:HD13	4:ZM:246:ILE:HA	1.88	0.45
4:ZN:202:LYS:HB2	4:ZN:208:TRP:CZ3	2.52	0.45
4:ZO:139:ILE:HA	4:ZO:312:LEU:HD22	1.98	0.45
4:ZP:73:LEU:HD21	4:ZP:292:TYR:CE1	2.52	0.45
4:ZV:102:LEU:HD21	4:ZV:106:ARG:HA	1.98	0.45
4:ZV:373:VAL:HG11	4:Zb:7:VAL:HG22	1.98	0.45
4:Za:352:ASN:O	4:Za:352:ASN:OD1	2.35	0.45
4:Zf:378:ALA:O	4:Zf:379:GLN:C	2.59	0.45
5:AB:80:VAL:O	5:AB:103:GLY:HA3	2.17	0.45
3:AF:122:VAL:O	3:AK:180:ASN:ND2	2.50	0.45
3:AH:147:LEU:HB2	3:AH:160:THR:HG23	1.98	0.45
3:AK:237:GLN:O	3:AK:241:GLU:HG3	2.17	0.45
3:AL:187:ILE:HD11	3:AL:193:ILE:HG13	1.99	0.45
3:AM:25:ASN:HD21	3:AM:37:GLN:H	1.64	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AZ:236:LYS:CE	6:UP:167:ARG:HH11	2.29	0.45
9:Av:152:ARG:HH12	6:WV:164:LEU:HB3	1.82	0.45
9:Av:204:LEU:HD12	9:Av:214:PRO:HB3	1.99	0.45
10:A5:15:GLN:HG3	10:A5:16:ALA:N	2.30	0.45
6:UL:129:GLN:O	6:UL:133:GLN:N	2.29	0.45
6:UM:80:ALA:N	6:UM:85:ALA:O	2.49	0.45
6:UM:94:HIS:HB2	6:UM:146:THR:HG21	1.97	0.45
6:WD:147:LEU:O	6:WD:148:GLY:C	2.59	0.45
6:WG:181:GLU:O	6:WG:182:PRO:C	2.60	0.45
6:WI:181:GLU:O	6:WI:182:PRO:C	2.60	0.45
6:WN:181:GLU:O	6:WN:182:PRO:C	2.60	0.45
6:WS:219:LEU:HG	6:WS:221:THR:H	1.82	0.45
6:WT:167:ARG:HG2	6:WT:168:GLU:N	2.31	0.45
6:BS:235:LEU:HD13	6:BT:244:ARG:HH22	1.81	0.45
6:BU:235:LEU:HD13	6:BV:244:ARG:HH22	1.81	0.45
2:d:108:SER:CB	2:e:43:VAL:HG23	2.47	0.45
2:e:35:SER:HB2	2:f:123:MET:HE1	1.97	0.45
2:g:20:GLU:N	2:g:241:ASN:O	2.49	0.45
2:j:20:GLU:N	2:j:241:ASN:O	2.49	0.45
2:k:20:GLU:N	2:k:241:ASN:O	2.49	0.45
2:n:20:GLU:N	2:n:241:ASN:O	2.49	0.45
2:p:319:LEU:HD23	2:q:332:VAL:HA	1.99	0.45
2:w:51:GLN:HE21	2:w:51:GLN:HB3	1.63	0.45
2:z:80:GLN:OE1	3:AL:202:ASN:CB	2.65	0.45
3:2:196:GLN:HE22	3:7:55:GLN:HE21	1.64	0.45
3:3:123:ASP:OD1	3:3:127:GLN:N	2.49	0.45
3:4:17:THR:HG23	3:9:68:ILE:HD11	1.99	0.45
3:6:1:MET:HE3	3:AJ:29:VAL:HG11	1.99	0.45
3:ZB:184:LEU:HB3	3:ZB:192:TYR:HB3	1.99	0.45
3:ZC:88:GLN:NE2	3:ZC:218:TYR:OH	2.50	0.45
4:ZQ:265:ASN:C	4:ZQ:267:MET:HE2	2.42	0.45
4:ZQ:288:ASP:O	4:ZQ:305:SER:N	2.50	0.45
4:ZY:212:THR:HG21	4:ZY:246:ILE:HD12	1.99	0.45
4:ZY:337:THR:HG23	4:ZY:339:ALA:H	1.82	0.45
5:AE:64:ALA:HB2	5:AE:173:ARG:HH21	1.80	0.45
3:AF:6:TRP:CH2	12:BA:79:GLU:CD	2.94	0.45
6:AR:244:ARG:HH22	6:Aa:235:LEU:HD13	1.81	0.45
7:Ab:10:GLY:O	7:Ab:14:MET:HG2	2.16	0.45
6:Ah:235:LEU:HD13	6:Ai:244:ARG:HH22	1.81	0.45
6:Ao:235:LEU:HD13	6:Ap:244:ARG:HH22	1.81	0.45
9:Av:152:ARG:HG3	6:WU:164:LEU:CA	2.47	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UN:80:ALA:N	6:UN:85:ALA:O	2.49	0.45
6:WB:112:GLY:HA2	6:WB:139:GLU:OE1	2.17	0.45
6:WB:113:PHE:CE2	6:WB:139:GLU:HG3	2.52	0.45
6:WF:124:SER:O	6:WF:125:GLN:C	2.59	0.45
6:WF:135:ALA:O	6:WF:139:GLU:HG2	2.16	0.45
6:WH:181:GLU:O	6:WH:182:PRO:C	2.60	0.45
12:BF:128:LYS:O	12:BF:131:THR:HG22	2.17	0.45
1:W:166:GLU:OE2	1:W:168:GLN:NE2	2.37	0.45
1:Y:84:GLU:OE1	1:Z:167:LYS:NZ	2.43	0.45
2:c:20:GLU:N	2:c:241:ASN:O	2.49	0.45
2:f:35:SER:HB2	2:g:123:MET:HE1	1.97	0.45
2:i:318:SER:CB	2:j:342:PRO:HD3	2.47	0.45
2:v:108:SER:CB	2:w:43:VAL:HG23	2.47	0.45
3:2:28:ASN:ND2	3:7:43:ASP:OD1	2.49	0.45
3:2:36:ARG:HE	3:2:80:LEU:HD22	1.82	0.45
3:3:35:LYS:NZ	3:3:220:GLU:OE2	2.48	0.45
3:4:238:ARG:NH2	3:ZA:251:ASP:OD2	2.47	0.45
3:6:26:LEU:HD11	3:6:233:MET:HE2	1.98	0.45
3:ZE:70:THR:HG22	3:ZE:71:GLY:H	1.82	0.45
4:ZQ:42:MET:HE2	4:ZQ:50:LEU:HD22	1.98	0.45
4:ZS:86:VAL:HG23	4:ZS:117:THR:HG21	1.98	0.45
4:ZT:146:ALA:HB2	4:ZT:286:PRO:HD3	1.99	0.45
4:ZY:146:ALA:HB2	4:ZY:286:PRO:HD3	1.98	0.45
4:Zc:69:THR:HG21	4:Zc:361:LEU:HD12	1.99	0.45
4:Zf:101:LYS:HD3	4:Zf:102:LEU:N	2.31	0.45
5:AA:171:VAL:HG13	5:AA:179:PHE:HB3	1.98	0.45
5:AD:10:GLY:O	5:AD:14:GLN:HG2	2.16	0.45
5:AE:144:SER:HB3	5:AE:155:VAL:HG22	1.99	0.45
3:AG:147:LEU:HB2	3:AG:160:THR:HG23	1.98	0.45
3:AI:50:ARG:HD3	6:BN:322:PRO:HG3	1.98	0.45
3:AI:97:ILE:HD12	3:AI:116:ARG:HG2	1.98	0.45
8:At:8:GLN:O	8:At:12:TRP:HD1	2.00	0.45
8:At:144:LEU:HB3	9:Ay:149:LEU:HD22	1.98	0.45
9:Ax:159:LEU:HD22	6:WE:164:LEU:CD2	2.46	0.45
9:Ay:114:GLN:HB3	9:Ay:115:PRO:HD3	2.00	0.45
10:A5:7:ILE:HD11	6:BS:370:ARG:HH21	1.82	0.45
6:UK:88:VAL:O	6:UK:89:PRO:C	2.60	0.45
6:UM:98:LEU:HD11	6:UM:143:THR:O	2.16	0.45
6:UO:164:LEU:HD22	6:UO:164:LEU:H	1.82	0.45
12:BA:112:TYR:CD1	12:BF:125:MET:HG3	2.51	0.45
12:BB:20:ARG:HD3	6:BJ:313:PRO:HG2	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BB:86:ASP:OD1	12:BB:86:ASP:N	2.41	0.45
6:WE:181:GLU:O	6:WE:182:PRO:C	2.60	0.45
6:WK:193:ALA:HB1	6:WL:213:VAL:HG11	1.99	0.45
6:WQ:145:GLU:C	6:WQ:147:LEU:N	2.75	0.45
6:WU:135:ALA:O	6:WU:139:GLU:HG2	2.16	0.45
6:WV:187:ASP:N	6:WV:190:GLN:HB2	2.31	0.45
1:G:166:GLU:OE2	1:G:168:GLN:NE2	2.37	0.44
2:c:108:SER:CB	2:d:43:VAL:HG23	2.47	0.44
2:h:319:LEU:HD23	2:i:332:VAL:HA	1.99	0.44
2:y:108:SER:CB	2:z:43:VAL:HG23	2.47	0.44
3:1:100:GLN:HE22	3:AK:147:LEU:HD23	1.82	0.44
3:2:10:THR:OG1	3:2:71:GLY:HA3	2.17	0.44
3:5:55:GLN:HA	3:5:55:GLN:HE21	1.82	0.44
3:5:100:GLN:HE21	3:5:177:THR:HG21	1.82	0.44
3:9:37:GLN:HE21	3:9:79:ARG:NH1	2.08	0.44
3:ZA:167:PRO:HD3	4:ZL:338:GLN:HB3	1.99	0.44
3:ZE:255:GLN:O	3:ZE:259:GLN:HG2	2.17	0.44
4:ZJ:350:SER:OG	4:ZJ:351:GLY:N	2.48	0.44
4:ZL:270:ASN:HB2	4:ZR:190:GLN:O	2.17	0.44
4:ZN:99:GLN:HG2	4:ZN:361:LEU:HD11	1.98	0.44
4:ZQ:373:VAL:O	4:ZQ:377:VAL:HG23	2.17	0.44
4:ZS:128:ILE:HD13	4:ZS:128:ILE:HA	1.87	0.44
4:ZT:71:ARG:NH2	4:ZT:100:PHE:O	2.45	0.44
4:ZW:122:THR:OG1	4:ZW:129:GLN:NE2	2.50	0.44
4:ZY:392:GLN:HA	4:ZY:395:ILE:HD12	1.99	0.44
4:Za:269:GLN:OE1	4:Zg:286:PRO:HG3	2.17	0.44
4:Zh:154:MET:HG2	4:Zh:279:THR:HG22	1.98	0.44
3:AF:106:MET:HE2	3:AF:106:MET:HB2	1.86	0.44
3:AG:47:GLN:O	3:AG:67:GLN:HA	2.17	0.44
3:AI:178:PHE:HE1	3:AI:201:PRO:HB3	1.82	0.44
3:AJ:234:ILE:O	3:AJ:238:ARG:HG2	2.17	0.44
3:AK:102:PHE:HB3	3:AK:114:TYR:HB3	1.99	0.44
6:Af:363:THR:HG23	11:A8:73:ILE:HD12	1.98	0.44
9:Aw:152:ARG:CD	6:WB:166:VAL:O	2.63	0.44
11:A8:31:ALA:HB1	12:BC:13:ALA:HB2	1.98	0.44
6:UJ:103:GLN:OE1	6:WD:182:PRO:CG	2.65	0.44
6:UL:88:VAL:O	6:UL:89:PRO:C	2.60	0.44
6:UL:216:SER:C	6:UL:218:HIS:N	2.75	0.44
6:WC:131:ASN:O	6:WC:134:ARG:N	2.50	0.44
6:WD:167:ARG:C	6:WD:167:ARG:HE	2.25	0.44
6:WW:192:SER:O	6:WW:195:VAL:HB	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:318:SER:CB	2:b:342:PRO:HD3	2.47	0.44
2:b:318:SER:CB	2:c:342:PRO:HD3	2.47	0.44
2:b:319:LEU:HD23	2:c:332:VAL:HA	1.99	0.44
2:h:318:SER:CB	2:i:342:PRO:HD3	2.48	0.44
2:m:319:LEU:HD23	2:n:332:VAL:HA	1.99	0.44
2:v:319:LEU:HD23	2:w:332:VAL:HA	1.99	0.44
2:y:35:SER:HB2	2:z:123:MET:HE1	1.97	0.44
3:4:33:GLY:N	3:4:220:GLU:O	2.49	0.44
3:7:227:ALA:CB	4:ZI:399:LEU:HD13	2.46	0.44
3:9:36:ARG:HH21	3:9:80:LEU:HD22	1.82	0.44
3:ZB:26:LEU:HD22	4:ZG:384:SER:OG	2.17	0.44
3:ZB:31:THR:HG22	4:ZG:39:PHE:CB	2.47	0.44
3:ZC:98:LYS:HE2	4:ZN:44:ALA:CB	2.48	0.44
3:ZD:175:LEU:HD12	3:ZD:206:PRO:HB3	1.99	0.44
4:ZF:71:ARG:HB2	4:ZF:74:ASP:OD2	2.17	0.44
4:ZH:77:ILE:HD13	4:ZH:77:ILE:HA	1.89	0.44
4:ZH:93:PHE:HB3	4:ZH:333:VAL:HG13	1.99	0.44
4:ZJ:93:PHE:HB3	4:ZJ:333:VAL:HG13	1.99	0.44
4:ZS:53:LYS:HE3	4:ZS:53:LYS:HB2	1.79	0.44
4:ZT:128:ILE:HD13	4:ZT:128:ILE:HA	1.83	0.44
4:ZX:382:TYR:CE1	4:Zc:395:ILE:HG23	2.53	0.44
4:Zc:125:PRO:HA	4:Zc:126:PRO:HD3	1.88	0.44
4:Zf:196:MET:HE1	4:Zf:259:PHE:CZ	2.52	0.44
5:AC:4:ALA:HB2	12:BD:22:ASN:OD1	2.18	0.44
5:AC:71:LEU:CB	3:AN:70:THR:HG21	2.48	0.44
5:AD:14:GLN:HG3	5:AD:58:THR:HA	1.98	0.44
3:AG:62:LEU:CD2	12:BC:83:PRO:HG2	2.37	0.44
6:Ae:372:ILE:HD12	10:A2:3:ALA:C	2.42	0.44
6:Af:365:ASN:ND2	11:A8:65:LEU:HD11	2.32	0.44
6:Ak:370:ARG:HH21	10:A1:7:ILE:CG1	2.26	0.44
6:AP:235:LEU:HD13	6:AQ:244:ARG:HH22	1.81	0.44
10:A1:75:MET:HE3	10:A1:75:MET:HB3	1.83	0.44
11:A8:109:PHE:CZ	12:BC:118:VAL:HG13	2.53	0.44
6:UI:103:GLN:NE2	6:WB:182:PRO:HB3	2.32	0.44
6:UJ:55:PHE:O	6:UJ:85:ALA:HA	2.18	0.44
6:UK:164:LEU:H	6:UK:164:LEU:HD22	1.82	0.44
6:UM:75:ILE:HG21	6:UM:96:LEU:HD11	2.00	0.44
6:UN:88:VAL:O	6:UN:89:PRO:C	2.60	0.44
6:UN:98:LEU:HD11	6:UN:143:THR:O	2.17	0.44
6:UN:164:LEU:H	6:UN:164:LEU:HD22	1.82	0.44
6:WC:190:GLN:C	6:WC:192:SER:H	2.23	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WH:135:ALA:O	6:WH:139:GLU:HG2	2.16	0.44
6:WN:200:SER:C	6:WO:173:SER:OG	2.60	0.44
6:WO:219:LEU:HG	6:WO:221:THR:H	1.82	0.44
6:WR:135:ALA:O	6:WR:139:GLU:HG2	2.16	0.44
6:WR:142:ARG:O	6:WR:146:THR:HG23	2.16	0.44
6:BW:235:LEU:HD13	6:BX:244:ARG:HH22	1.81	0.44
1:C:166:GLU:OE2	1:C:168:GLN:NE2	2.37	0.44
2:a:319:LEU:HD23	2:b:332:VAL:HA	1.99	0.44
2:c:318:SER:CB	2:d:342:PRO:HD3	2.47	0.44
2:u:108:SER:CB	2:v:43:VAL:HG23	2.47	0.44
3:1:35:LYS:HD2	3:1:81:HIS:HA	1.99	0.44
3:1:193:ILE:CG2	5:AE:152:PRO:CD	2.95	0.44
3:6:189:GLU:HA	3:ZB:42:GLU:HB2	1.99	0.44
3:ZD:91:ASN:HB2	3:ZD:94:ASP:OD2	2.17	0.44
3:ZE:31:THR:HG22	4:ZJ:39:PHE:CB	2.47	0.44
3:ZE:186:SER:O	4:ZJ:45:GLY:O	2.34	0.44
4:ZI:95:SER:OG	4:ZI:332:ASN:O	2.23	0.44
4:ZL:47:LYS:HE3	4:ZL:47:LYS:HB2	1.81	0.44
4:ZL:322:ASN:OD1	4:ZL:325:GLY:N	2.50	0.44
4:ZZ:74:ASP:O	4:ZZ:359:GLY:N	2.50	0.44
4:ZZ:281:GLN:OE1	4:ZZ:281:GLN:N	2.51	0.44
4:Ze:80:ASN:OD1	4:Ze:81:GLY:N	2.50	0.44
5:AC:10:GLY:O	5:AC:14:GLN:HG2	2.17	0.44
5:AD:26:LEU:HD21	5:AD:216:ALA:CB	2.48	0.44
5:AE:227:PHE:O	5:AE:231:MET:HG2	2.17	0.44
6:AV:235:LEU:HD13	6:AW:244:ARG:HH22	1.81	0.44
6:Ag:295:SER:HB3	11:A8:72:HIS:CA	2.45	0.44
7:Aq:2:THR:HG23	7:Aq:5:SER:H	1.82	0.44
7:Aq:20:LEU:HD11	7:Aq:73:LEU:HD13	2.00	0.44
7:Ar:27:VAL:HG22	7:Ar:57:ALA:HB1	1.99	0.44
9:Av:57:ILE:O	9:Av:61:MET:HB2	2.17	0.44
9:Aw:101:MET:HE3	9:Aw:101:MET:HB3	1.77	0.44
9:Ay:162:PRO:HA	6:WI:165:PHE:CE2	2.53	0.44
9:Ay:204:LEU:HD11	9:Ay:217:ILE:HD12	1.99	0.44
11:A6:49:LEU:O	11:A6:53:MET:HG2	2.17	0.44
6:WE:161:LYS:H	6:WE:161:LYS:HD3	1.82	0.44
6:WP:186:LEU:HA	6:WP:190:GLN:OE1	2.17	0.44
6:WQ:181:GLU:O	6:WQ:182:PRO:C	2.60	0.44
6:WS:145:GLU:C	6:WS:147:LEU:N	2.75	0.44
12:BC:49:PHE:CG	6:BL:313:PRO:HG3	2.52	0.44
2:f:318:SER:CB	2:g:342:PRO:HD3	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g:318:SER:CB	2:h:342:PRO:HD3	2.47	0.44
2:g:319:LEU:HD23	2:h:332:VAL:HA	1.99	0.44
2:h:108:SER:CB	2:i:43:VAL:HG23	2.47	0.44
2:j:318:SER:CB	2:k:342:PRO:HD3	2.48	0.44
2:r:35:SER:HB2	2:s:123:MET:HE1	1.97	0.44
3:1:178:PHE:CE1	3:1:201:PRO:HB3	2.50	0.44
3:2:141:THR:C	3:2:142:ILE:HD13	2.41	0.44
3:4:185:GLU:OE1	3:9:51:GLN:NE2	2.50	0.44
3:5:257:LEU:O	3:5:260:LEU:HB2	2.16	0.44
3:6:123:ASP:OD1	3:6:127:GLN:N	2.50	0.44
3:ZB:164:GLN:C	3:ZB:166:ALA:H	2.26	0.44
4:ZH:233:ASN:HD21	4:ZH:237:ILE:HB	1.82	0.44
4:ZI:8:SER:HB3	4:ZI:52:VAL:H	1.81	0.44
4:ZI:87:ASP:OD1	4:ZI:87:ASP:N	2.37	0.44
4:ZI:233:ASN:OD1	4:ZI:237:ILE:N	2.47	0.44
4:ZI:324:GLU:O	4:ZI:326:LEU:N	2.50	0.44
4:ZK:126:PRO:HG2	4:ZK:310:GLN:HG3	2.00	0.44
4:ZP:103:ASP:OD1	4:ZP:107:ASN:N	2.50	0.44
4:ZP:346:GLY:HA3	4:ZP:353:PHE:CE2	2.53	0.44
4:ZY:74:ASP:OD2	4:ZY:361:LEU:HD11	2.18	0.44
4:Zd:184:VAL:HG13	4:Zd:196:MET:HB2	1.98	0.44
5:AA:120:VAL:O	5:AA:126:PRO:HA	2.16	0.44
5:AC:202:MET:SD	3:AN:44:LEU:HD23	2.58	0.44
5:AD:49:LEU:HA	5:AD:50:SER:HA	1.72	0.44
5:AE:130:PRO:O	5:AE:131:GLU:C	2.60	0.44
3:AM:123:ASP:OD2	3:AM:127:GLN:NE2	2.51	0.44
6:Af:235:LEU:HD13	6:Ag:244:ARG:HH22	1.81	0.44
7:As:7:MET:HE2	8:At:233:MET:O	2.17	0.44
8:At:75:MET:O	8:At:79:LEU:HG	2.17	0.44
9:Ay:160:GLN:O	6:WI:167:ARG:CG	2.65	0.44
10:Az:15:GLN:HG3	10:Az:16:ALA:N	2.30	0.44
10:A2:70:ASP:OD1	11:A8:13:GLN:NE2	2.50	0.44
6:UI:98:LEU:HD11	6:UI:143:THR:O	2.16	0.44
6:UJ:94:HIS:HB2	6:UJ:146:THR:HG21	1.97	0.44
6:UL:55:PHE:O	6:UL:85:ALA:HA	2.18	0.44
6:WF:166:VAL:HG22	6:WF:168:GLU:H	1.82	0.44
6:WO:190:GLN:NE2	6:WP:216:SER:O	2.50	0.44
6:WQ:187:ASP:OD1	6:WQ:188:GLU:N	2.51	0.44
6:WT:134:ARG:HH21	6:WT:134:ARG:HB3	1.83	0.44
6:WU:158:ALA:O	6:WU:160:PRO:HD3	2.18	0.44
6:WV:181:GLU:O	6:WV:182:PRO:C	2.60	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:166:GLU:OE2	1:S:168:GLN:NE2	2.37	0.44
1:U:59:ASN:ND2	2:s:130:ASP:HB2	2.33	0.44
1:V:225:PHE:CE1	1:V:229:LEU:HD12	2.52	0.44
1:Y:225:PHE:CE1	1:Y:229:LEU:HD12	2.52	0.44
1:Z:225:PHE:CE1	1:Z:229:LEU:HD12	2.52	0.44
2:a:108:SER:CB	2:b:43:VAL:HG23	2.47	0.44
2:a:342:PRO:HD3	2:z:318:SER:CB	2.47	0.44
2:e:108:SER:CB	2:f:43:VAL:HG23	2.47	0.44
2:g:108:SER:CB	2:h:43:VAL:HG23	2.47	0.44
2:k:318:SER:CB	2:l:342:PRO:HD3	2.47	0.44
2:o:319:LEU:HD23	2:p:332:VAL:HA	1.99	0.44
2:q:108:SER:CB	2:r:43:VAL:HG23	2.47	0.44
3:1:197:SER:HA	3:AK:124:GLN:HB3	1.99	0.44
3:4:74:PRO:HB2	3:9:66:LEU:HD11	1.99	0.44
3:7:58:GLU:OE2	3:7:58:GLU:N	2.42	0.44
3:ZD:49:ILE:HB	3:ZD:66:LEU:HB3	1.99	0.44
4:ZF:65:THR:HG21	4:ZQ:4:SER:HB2	1.99	0.44
4:ZJ:146:ALA:HB2	4:ZJ:286:PRO:HD3	1.98	0.44
4:ZJ:396:LEU:HD23	4:ZJ:396:LEU:HA	1.84	0.44
4:ZM:102:LEU:HD12	4:ZM:102:LEU:HA	1.88	0.44
4:ZS:170:PHE:CE2	4:ZS:223:PRO:HG2	2.52	0.44
4:ZS:233:ASN:OD1	4:ZS:237:ILE:N	2.49	0.44
4:ZT:14:ALA:HB2	4:ZT:382:TYR:HE2	1.82	0.44
4:ZV:41:ASP:OD2	4:ZV:41:ASP:N	2.46	0.44
4:ZV:368:LEU:HD23	4:ZV:368:LEU:HA	1.84	0.44
4:Zf:103:ASP:OD2	4:Zf:104:GLU:N	2.48	0.44
4:Zh:5:GLN:H	4:Zh:5:GLN:HG2	1.62	0.44
5:AB:34:PHE:O	5:AB:210:ASN:ND2	2.51	0.44
5:AC:208:GLY:HA3	3:AN:6:TRP:HZ3	1.83	0.44
3:AF:24:ASN:ND2	3:AK:69:GLY:HA3	2.32	0.44
3:AM:43:ASP:HA	3:AM:72:VAL:HA	1.99	0.44
6:AR:278:THR:HG21	10:A2:21:ALA:HB3	1.97	0.44
6:Ag:297:GLN:CB	11:A8:73:ILE:HD13	2.35	0.44
8:At:123:PRO:HB2	8:At:126:ALA:HB3	1.99	0.44
9:Ax:147:LEU:HD21	9:Ax:165:VAL:HG11	2.00	0.44
10:A5:14:LEU:HD21	6:BR:370:ARG:HH21	1.83	0.44
6:UI:55:PHE:O	6:UI:85:ALA:HA	2.18	0.44
6:UO:88:VAL:O	6:UO:89:PRO:C	2.60	0.44
6:WS:197:LEU:CD1	6:WT:175:SER:OG	2.64	0.44
1:O:225:PHE:CE1	1:O:229:LEU:HD12	2.52	0.44
1:W:225:PHE:CE1	1:W:229:LEU:HD12	2.53	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:225:PHE:CE1	1:X:229:LEU:HD12	2.53	0.44
2:b:108:SER:CB	2:c:43:VAL:HG23	2.47	0.44
2:e:318:SER:CB	2:f:342:PRO:HD3	2.48	0.44
2:n:318:SER:CB	2:o:342:PRO:HD3	2.47	0.44
2:r:108:SER:CB	2:s:43:VAL:HG23	2.47	0.44
2:w:108:SER:CB	2:x:43:VAL:HG23	2.47	0.44
3:0:49:ILE:HB	3:0:66:LEU:HG	1.98	0.44
3:1:38:ARG:NH1	3:AK:94:ASP:OD2	2.46	0.44
3:1:254:LEU:O	3:1:258:THR:HG23	2.17	0.44
3:2:56:SER:C	5:AA:138:ALA:CB	2.73	0.44
3:3:76:ALA:HB1	3:8:64:SER:O	2.18	0.44
3:8:137:GLN:HA	3:8:138:PRO:C	2.43	0.44
3:9:70:THR:HG22	3:9:71:GLY:N	2.30	0.44
4:ZF:65:THR:HA	4:ZQ:50:LEU:HD11	1.99	0.44
4:ZJ:178:TYR:HA	4:ZJ:201:VAL:HG22	2.00	0.44
4:ZN:269:GLN:HE22	4:ZT:146:ALA:H	1.65	0.44
4:ZP:71:ARG:NH1	4:ZP:74:ASP:OD1	2.51	0.44
4:ZR:182:GLY:O	4:ZR:197:ASN:HA	2.17	0.44
4:ZT:99:GLN:NE2	4:ZY:38:SER:OG	2.47	0.44
4:ZZ:233:ASN:HD21	4:ZZ:237:ILE:HB	1.83	0.44
4:Ze:117:THR:HA	4:Ze:136:PRO:HA	2.00	0.44
4:Zf:210:VAL:HB	4:Zf:228:THR:HG22	2.00	0.44
4:Zg:71:ARG:NH1	4:Zg:74:ASP:OD1	2.51	0.44
5:AA:9:MET:HB2	12:BA:103:VAL:HG21	1.98	0.44
5:AD:105:ILE:HG12	5:AD:115:ILE:HD11	2.00	0.44
3:AG:189:GLU:O	3:AG:191:LEU:HG	2.17	0.44
9:Au:100:ILE:HG23	9:Au:101:MET:CE	2.47	0.44
6:UJ:100:LEU:HD23	6:UJ:103:GLN:HE21	1.83	0.44
6:UK:55:PHE:O	6:UK:85:ALA:HA	2.18	0.44
6:UM:73:MET:HE1	6:UM:99:ARG:HD2	1.95	0.44
6:UM:160:PRO:HG2	6:UM:170:LYS:HB3	2.00	0.44
6:UN:75:ILE:HG21	6:UN:96:LEU:HD11	2.00	0.44
6:UP:80:ALA:N	6:UP:85:ALA:O	2.49	0.44
6:WA:160:PRO:O	6:WA:161:LYS:C	2.61	0.44
6:WA:196:HIS:NE2	6:WB:219:LEU:HD22	2.33	0.44
6:WB:142:ARG:O	6:WB:146:THR:HG23	2.17	0.44
6:WC:130:VAL:HG12	6:WC:134:ARG:HD2	1.99	0.44
6:WN:219:LEU:HG	6:WN:221:THR:H	1.82	0.44
6:WO:200:SER:HG	6:WP:175:SER:HB2	1.76	0.44
6:WQ:171:SER:HB3	6:WQ:206:PRO:HD3	2.00	0.44
6:WT:128:GLU:CG	6:WU:126:PHE:CD2	2.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BU:429:THR:OG1	6:BV:418:GLU:OE2	2.36	0.44
1:A:225:PHE:CE1	1:A:229:LEU:HD12	2.52	0.44
1:L:166:GLU:OE2	1:L:168:GLN:NE2	2.37	0.44
1:U:225:PHE:CE1	1:U:229:LEU:HD12	2.52	0.44
2:b:51:GLN:HE21	2:b:51:GLN:HB3	1.63	0.44
2:d:318:SER:CB	2:e:342:PRO:HD3	2.48	0.44
2:l:108:SER:CB	2:m:43:VAL:HG23	2.47	0.44
2:l:318:SER:HB2	2:m:342:PRO:HD3	2.00	0.44
2:m:108:SER:CB	2:n:43:VAL:HG23	2.47	0.44
2:n:51:GLN:HE21	2:n:51:GLN:HB3	1.63	0.44
2:n:108:SER:CB	2:o:43:VAL:HG23	2.47	0.44
2:u:319:LEU:HD23	2:v:332:VAL:HA	1.99	0.44
2:w:318:SER:CB	2:x:342:PRO:HD3	2.47	0.44
3:0:143:PRO:HG2	3:0:159:VAL:HG11	1.99	0.44
3:6:184:LEU:HB3	3:6:192:TYR:HB3	1.99	0.44
3:8:180:ASN:OD1	3:8:183:GLY:N	2.44	0.44
3:ZB:215:TYR:HB3	3:ZB:218:TYR:CD2	2.53	0.44
3:ZE:255:GLN:O	3:ZE:256:LYS:C	2.59	0.44
4:ZJ:139:ILE:HG12	4:ZJ:312:LEU:HD13	1.99	0.44
4:ZL:368:LEU:HD12	4:ZL:368:LEU:HA	1.68	0.44
4:ZL:380:ARG:HD3	4:ZL:380:ARG:HA	1.66	0.44
4:ZP:373:VAL:O	4:ZP:375:MET:N	2.50	0.44
4:ZR:178:TYR:HA	4:ZR:201:VAL:HG22	1.99	0.44
4:ZR:295:ASN:HB2	4:ZR:297:ASP:OD2	2.18	0.44
4:ZS:331:ASP:HA	4:ZX:40:ALA:HB1	1.99	0.44
4:ZU:3:PHE:HE2	4:ZU:396:LEU:HD12	1.81	0.44
4:ZV:16:ASN:HB2	4:ZV:39:PHE:HZ	1.83	0.44
4:ZV:156:ILE:HG22	4:ZV:276:ILE:HG12	2.00	0.44
4:ZW:390:LYS:O	4:ZW:394:GLN:HG3	2.18	0.44
4:ZY:24:ILE:HD11	4:Zd:384:SER:OG	2.18	0.44
4:Zb:80:ASN:OD1	4:Zb:80:ASN:C	2.61	0.44
5:AA:70:GLN:CG	3:AL:3:SER:CB	2.96	0.44
5:AB:29:ALA:O	5:AB:209:SER:OG	2.36	0.44
5:AB:87:TRP:HB2	5:AB:164:VAL:HG23	1.99	0.44
5:AC:167:GLU:OE1	5:AC:167:GLU:N	2.51	0.44
5:AE:77:PRO:O	5:AE:203:SER:OG	2.34	0.44
6:AS:418:GLU:OE2	6:BX:429:THR:OG1	2.36	0.44
7:Ab:4:GLU:HB2	6:WS:125:GLN:CB	2.40	0.44
9:Aw:127:LEU:HD23	9:Aw:127:LEU:HA	1.88	0.44
6:UJ:98:LEU:CD1	6:UJ:146:THR:HG1	2.30	0.44
6:UL:160:PRO:HG2	6:UL:170:LYS:HB3	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WB:113:PHE:HB3	6:WC:134:ARG:CZ	2.48	0.44
6:WD:191:ILE:O	6:WD:195:VAL:HG23	2.18	0.44
6:WE:200:SER:O	6:WF:158:ALA:HB3	2.18	0.44
6:WH:219:LEU:HG	6:WH:221:THR:H	1.82	0.44
6:WJ:145:GLU:HG2	6:WJ:153:ALA:N	2.33	0.44
6:WP:196:HIS:CD2	6:WQ:219:LEU:HD13	2.52	0.44
6:WS:168:GLU:O	6:WS:169:GLN:HB3	2.18	0.44
12:BF:3:LEU:H	6:BG:319:GLN:HE21	1.66	0.44
6:BS:429:THR:OG1	6:BT:418:GLU:OE2	2.36	0.44
1:B:225:PHE:CE1	1:B:229:LEU:HD12	2.52	0.44
1:D:225:PHE:CE1	1:D:229:LEU:HD12	2.52	0.44
1:R:59:ASN:ND2	2:p:130:ASP:HB2	2.33	0.44
1:R:166:GLU:OE2	1:R:168:GLN:NE2	2.37	0.44
1:R:225:PHE:CE1	1:R:229:LEU:HD12	2.52	0.44
2:f:318:SER:HB2	2:g:342:PRO:HD3	2.00	0.44
2:i:108:SER:CB	2:j:43:VAL:HG23	2.47	0.44
2:k:318:SER:HB2	2:l:342:PRO:HD3	2.00	0.44
2:s:53:THR:CG2	3:AH:169:GLN:NE2	2.81	0.44
2:x:108:SER:CB	2:y:43:VAL:HG23	2.47	0.44
3:1:114:TYR:CD2	3:1:178:PHE:HZ	2.36	0.44
3:2:86:LEU:HG	3:ZD:45:LEU:HD12	1.98	0.44
3:5:49:ILE:HG21	3:5:66:LEU:HD23	2.00	0.44
3:5:244:SER:HB2	3:ZA:260:LEU:HD11	1.99	0.44
4:ZR:111:MET:N	4:ZR:111:MET:SD	2.90	0.44
4:ZS:382:TYR:CE1	4:ZX:395:ILE:HG23	2.52	0.44
4:ZV:14:ALA:HB2	4:ZV:382:TYR:HE2	1.83	0.44
4:ZX:388:THR:O	4:ZX:392:GLN:HG2	2.18	0.44
4:ZZ:10:LEU:HD21	4:Ze:399:LEU:HD21	1.99	0.44
4:ZZ:144:MET:HE2	4:ZZ:144:MET:HB3	1.83	0.44
4:ZZ:307:GLU:O	4:ZZ:307:GLU:HG2	2.18	0.44
4:Za:112:GLN:N	4:Za:112:GLN:OE1	2.51	0.44
4:Zg:73:LEU:HB3	4:Zg:100:PHE:HB2	2.00	0.44
3:AG:20:ASP:OD1	3:AL:4:SER:OG	2.36	0.44
6:Ae:429:THR:OG1	6:Af:418:GLU:OE2	2.36	0.44
6:AP:429:THR:OG1	6:AQ:418:GLU:OE2	2.36	0.44
8:At:144:LEU:C	6:WJ:164:LEU:HD21	2.42	0.44
9:Au:213:PRO:HA	9:Au:214:PRO:HD3	1.91	0.44
10:A4:11:ILE:HG22	6:BX:372:ILE:CG2	2.47	0.44
6:UK:160:PRO:HG2	6:UK:170:LYS:HB3	2.00	0.44
6:UO:55:PHE:O	6:UO:85:ALA:HA	2.18	0.44
6:UO:75:ILE:HG21	6:UO:96:LEU:HD11	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UP:73:MET:HE3	6:UP:99:ARG:CD	2.41	0.44
6:WG:164:LEU:HD13	6:WG:164:LEU:HA	1.80	0.44
6:WK:181:GLU:O	6:WK:182:PRO:C	2.60	0.44
6:WV:192:SER:O	6:WV:195:VAL:HB	2.18	0.44
6:WW:134:ARG:HH21	6:WW:134:ARG:CB	2.30	0.44
1:C:59:ASN:ND2	2:a:130:ASP:HB2	2.33	0.44
1:K:166:GLU:OE2	1:K:168:GLN:NE2	2.37	0.44
1:S:225:PHE:CE1	1:S:229:LEU:HD12	2.52	0.44
1:T:225:PHE:CE1	1:T:229:LEU:HD12	2.52	0.44
2:b:80:GLN:HE22	3:7:59:GLN:HB3	1.83	0.44
2:e:318:SER:HB2	2:f:342:PRO:HD3	2.00	0.44
2:g:318:SER:HB2	2:h:342:PRO:HD3	2.00	0.44
2:k:108:SER:CB	2:l:43:VAL:HG23	2.47	0.44
2:o:108:SER:CB	2:p:43:VAL:HG23	2.47	0.44
2:p:318:SER:CB	2:q:342:PRO:HD3	2.47	0.44
2:q:318:SER:CB	2:r:342:PRO:HD3	2.47	0.44
2:x:318:SER:CB	2:y:342:PRO:HD3	2.47	0.44
3:0:20:ASP:OD1	3:5:3:SER:OG	2.36	0.44
3:6:128:LEU:HD23	3:6:128:LEU:HA	1.86	0.44
3:ZA:76:ALA:HA	4:ZF:47:LYS:HD3	2.00	0.44
3:ZA:208:LEU:C	3:ZA:210:GLY:H	2.26	0.44
4:ZL:373:VAL:O	4:ZL:374:ASN:C	2.60	0.44
4:ZM:6:ALA:HB1	4:ZM:389:ILE:HG13	2.00	0.44
4:ZM:307:GLU:OE1	4:ZM:307:GLU:O	2.35	0.44
4:ZV:309:GLU:OE1	4:Zg:338:GLN:NE2	2.50	0.44
4:ZZ:2:SER:OG	4:ZZ:3:PHE:N	2.48	0.44
4:Zg:42:MET:SD	4:Zg:53:LYS:HB3	2.58	0.44
5:AB:18:GLN:HG2	5:AB:223:ASN:HD21	1.82	0.44
3:AJ:2:ILE:HD11	12:BE:32:ASP:OD1	2.16	0.44
3:AL:6:TRP:O	3:AL:10:THR:HG23	2.18	0.44
3:AM:22:ILE:HG21	3:AM:233:MET:HG3	2.00	0.44
3:AN:85:ASN:O	3:AN:221:THR:OG1	2.33	0.44
6:AU:429:THR:OG1	6:AV:418:GLU:OE2	2.36	0.44
6:AV:278:THR:CG2	10:A3:21:ALA:HB3	2.31	0.44
7:As:52:ILE:HD13	7:As:52:ILE:HA	1.83	0.44
8:At:193:LEU:O	8:At:196:THR:OG1	2.26	0.44
8:At:251:LEU:HD23	8:At:251:LEU:HA	1.84	0.44
9:Ax:212:VAL:HG21	9:Ax:217:ILE:HD11	2.00	0.44
9:Ay:80:THR:CB	9:Ay:83:ALA:HB2	2.48	0.44
11:A8:67:LEU:HD21	11:A8:74:PRO:HA	2.00	0.44
6:UI:80:ALA:N	6:UI:85:ALA:O	2.49	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UI:164:LEU:HD22	6:UI:164:LEU:H	1.81	0.44
6:UM:129:GLN:O	6:UM:133:GLN:N	2.29	0.44
6:UO:160:PRO:HG2	6:UO:170:LYS:HB3	2.00	0.44
6:UP:75:ILE:HG21	6:UP:96:LEU:HD11	2.00	0.44
6:UP:129:GLN:O	6:UP:133:GLN:N	2.29	0.44
6:UP:164:LEU:H	6:UP:164:LEU:HD22	1.81	0.44
6:WB:167:ARG:C	6:WB:169:GLN:H	2.25	0.44
6:WB:190:GLN:O	6:WB:191:ILE:C	2.61	0.44
6:WF:181:GLU:O	6:WF:182:PRO:C	2.60	0.44
6:WO:181:GLU:O	6:WO:182:PRO:C	2.60	0.44
6:WS:193:ALA:HB1	6:WT:213:VAL:CG1	2.48	0.44
12:BE:97:ASP:O	12:BE:101:GLU:HG2	2.18	0.44
1:F:59:ASN:ND2	2:d:130:ASP:HB2	2.33	0.43
1:K:225:PHE:CE1	1:K:229:LEU:HD12	2.52	0.43
1:L:225:PHE:CE1	1:L:229:LEU:HD12	2.52	0.43
1:N:225:PHE:CE1	1:N:229:LEU:HD12	2.52	0.43
1:Z:59:ASN:ND2	2:x:130:ASP:HB2	2.33	0.43
2:j:108:SER:CB	2:k:43:VAL:HG23	2.47	0.43
2:l:318:SER:CB	2:m:342:PRO:HD3	2.47	0.43
2:n:319:LEU:HD23	2:o:332:VAL:HA	1.99	0.43
2:p:108:SER:CB	2:q:43:VAL:HG23	2.47	0.43
2:r:318:SER:CB	2:s:342:PRO:HD3	2.47	0.43
3:6:7:ILE:HG23	3:6:71:GLY:HA2	1.99	0.43
3:6:45:LEU:HD21	3:AJ:215:TYR:HE2	1.83	0.43
3:6:57:SER:N	5:AE:138:ALA:HB1	2.32	0.43
3:7:225:ASN:O	3:7:229:GLU:HG2	2.18	0.43
3:ZA:76:ALA:HA	4:ZF:47:LYS:CD	2.48	0.43
3:ZC:46:TYR:HA	3:ZC:69:GLY:HA2	2.00	0.43
3:ZC:145:ASN:HA	4:ZH:352:ASN:ND2	2.33	0.43
3:ZD:42:GLU:HG2	3:ZD:75:VAL:HG23	2.00	0.43
4:ZI:154:MET:HE2	4:ZI:276:ILE:HD13	1.99	0.43
4:ZI:324:GLU:C	4:ZI:326:LEU:H	2.25	0.43
4:ZL:84:ARG:HG3	4:ZL:84:ARG:HH11	1.83	0.43
4:ZL:93:PHE:HE1	4:ZL:329:GLN:HG3	1.83	0.43
4:ZN:9:GLY:C	4:ZN:385:ASN:HD22	2.25	0.43
5:AA:202:MET:CE	3:AL:73:ARG:CZ	2.94	0.43
5:AC:27:ALA:O	3:AH:72:VAL:CG1	2.61	0.43
3:AF:22:ILE:HG21	3:AF:233:MET:HG2	1.99	0.43
3:AH:5:LEU:HD23	3:AH:5:LEU:HA	1.90	0.43
3:AK:137:GLN:HA	3:AK:138:PRO:C	2.42	0.43
3:AL:2:ILE:O	3:AL:3:SER:HB3	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AM:95:VAL:O	3:AM:118:GLY:HA3	2.18	0.43
6:AX:370:ARG:NH2	10:A3:14:LEU:HD11	2.32	0.43
8:At:242:HIS:HB2	6:WJ:125:GLN:HB3	1.97	0.43
9:Au:123:MET:HE3	9:Au:123:MET:HB3	1.84	0.43
9:Av:211:MET:HE1	9:Aw:210:MET:CE	2.48	0.43
6:UI:160:PRO:HG2	6:UI:170:LYS:HB3	2.00	0.43
6:UL:94:HIS:HB2	6:UL:146:THR:HG21	1.97	0.43
6:UM:55:PHE:O	6:UM:85:ALA:HA	2.18	0.43
6:UP:55:PHE:O	6:UP:85:ALA:HA	2.18	0.43
6:UP:88:VAL:O	6:UP:89:PRO:C	2.60	0.43
6:WC:190:GLN:C	6:WC:192:SER:N	2.72	0.43
6:WC:200:SER:O	6:WD:158:ALA:HB3	2.14	0.43
6:WE:164:LEU:HD13	6:WE:165:PHE:H	1.82	0.43
6:WF:148:GLY:N	6:WG:215:GLN:O	2.39	0.43
6:WL:219:LEU:HG	6:WL:221:THR:H	1.82	0.43
6:WP:190:GLN:C	6:WP:192:SER:H	2.24	0.43
6:WV:117:ASP:OD1	6:WW:120:LYS:NZ	2.51	0.43
1:C:225:PHE:CE1	1:C:229:LEU:HD12	2.52	0.43
1:F:225:PHE:CE1	1:F:229:LEU:HD12	2.52	0.43
1:O:59:ASN:ND2	2:m:130:ASP:HB2	2.33	0.43
1:Q:225:PHE:CE1	1:Q:229:LEU:HD12	2.52	0.43
1:T:166:GLU:OE2	1:T:168:GLN:NE2	2.37	0.43
2:a:318:SER:HB2	2:b:342:PRO:HD3	2.00	0.43
2:a:342:PRO:HD3	2:z:318:SER:HB2	2.00	0.43
2:e:80:GLN:OE1	3:AK:203:GLU:O	2.35	0.43
2:h:136:LEU:HG	2:h:172:GLU:HG3	2.01	0.43
2:m:318:SER:HB2	2:n:342:PRO:HD3	2.00	0.43
2:o:318:SER:CB	2:p:342:PRO:HD3	2.48	0.43
2:s:318:SER:CB	2:t:342:PRO:HD3	2.48	0.43
2:t:51:GLN:HE21	2:t:51:GLN:HB3	1.63	0.43
2:t:318:SER:CB	2:u:342:PRO:HD3	2.48	0.43
2:y:318:SER:CB	2:z:342:PRO:HD3	2.47	0.43
3:0:257:LEU:HD22	3:AJ:240:TYR:OH	2.18	0.43
3:3:107:LEU:HD21	3:3:191:LEU:HD13	2.00	0.43
3:3:238:ARG:NH2	3:9:255:GLN:HB2	2.33	0.43
3:4:253:MET:HE2	3:AN:240:TYR:CD1	2.53	0.43
3:5:208:LEU:C	3:5:210:GLY:H	2.25	0.43
3:ZE:44:LEU:HD23	3:ZE:44:LEU:HA	1.82	0.43
4:ZL:267:MET:HE3	4:ZL:267:MET:HB3	1.85	0.43
4:ZM:14:ALA:HB2	4:ZM:382:TYR:HE2	1.82	0.43
4:ZM:228:THR:HB	4:ZM:244:VAL:HG11	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZO:95:SER:HB2	4:ZO:333:VAL:HG22	2.00	0.43
4:ZR:86:VAL:HG13	4:ZR:117:THR:HG21	2.00	0.43
4:ZV:331:ASP:HA	4:Za:40:ALA:HB1	2.01	0.43
4:Ze:381:ASN:O	4:Ze:382:TYR:C	2.61	0.43
4:Zf:38:SER:O	4:Zf:55:ALA:N	2.48	0.43
5:AC:27:ALA:HB1	3:AH:72:VAL:HG12	2.00	0.43
3:AH:147:LEU:HD11	3:AM:210:GLY:HA2	1.99	0.43
3:AH:153:ARG:NH2	3:AN:108:PRO:HG2	2.33	0.43
3:AH:188:GLY:O	3:AH:190:ASN:N	2.51	0.43
3:AL:107:LEU:HB2	3:AL:111:THR:O	2.17	0.43
3:AM:154:ASP:O	3:AM:154:ASP:OD1	2.35	0.43
6:AT:429:THR:OG1	6:AU:418:GLU:OE2	2.36	0.43
6:Ac:429:THR:OG1	6:Ad:418:GLU:OE2	2.36	0.43
6:Ad:265:GLN:NE2	6:UN:218:HIS:NE2	2.65	0.43
6:Ao:357:SER:OG	6:BI:319:GLN:OE1	2.23	0.43
8:At:179:ILE:H	8:At:179:ILE:HG13	1.69	0.43
9:Ax:162:PRO:CD	6:WE:167:ARG:HH21	2.30	0.43
9:Ay:195:ILE:O	9:Ay:199:VAL:HG13	2.18	0.43
11:A8:88:ARG:HH12	11:A8:108:GLN:HG3	1.83	0.43
6:UK:129:GLN:O	6:UK:133:GLN:N	2.29	0.43
6:UN:160:PRO:HG2	6:UN:170:LYS:HB3	2.00	0.43
6:UO:98:LEU:HD11	6:UO:143:THR:O	2.16	0.43
6:WD:181:GLU:O	6:WD:182:PRO:C	2.60	0.43
6:WH:139:GLU:HB3	6:WI:154:ARG:NH2	2.33	0.43
6:WM:187:ASP:OD1	6:WM:190:GLN:N	2.44	0.43
6:WR:190:GLN:HG2	6:WS:217:GLY:HA3	2.00	0.43
6:WS:181:GLU:O	6:WS:182:PRO:C	2.60	0.43
6:WT:192:SER:O	6:WT:195:VAL:HB	2.18	0.43
12:BF:3:LEU:O	6:BG:319:GLN:HG3	2.18	0.43
12:BF:6:ILE:HG22	6:BG:315:ALA:O	2.18	0.43
6:BR:429:THR:OG1	6:BS:418:GLU:OE2	2.36	0.43
1:I:59:ASN:ND2	2:g:130:ASP:HB2	2.33	0.43
1:O:166:GLU:OE2	1:O:168:GLN:NE2	2.37	0.43
1:P:225:PHE:CE1	1:P:229:LEU:HD12	2.52	0.43
2:d:136:LEU:HG	2:d:172:GLU:HG3	2.01	0.43
2:e:136:LEU:HG	2:e:172:GLU:HG3	2.01	0.43
2:m:318:SER:CB	2:n:342:PRO:HD3	2.47	0.43
2:q:51:GLN:HE21	2:q:51:GLN:HB3	1.63	0.43
2:t:108:SER:CB	2:u:43:VAL:HG23	2.47	0.43
2:u:318:SER:CB	2:v:342:PRO:HD3	2.47	0.43
3:2:231:VAL:HG11	3:8:9:LYS:HG3	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2:255:GLN:HE21	3:2:259:GLN:NE2	2.16	0.43
3:4:47:GLN:N	3:4:68:ILE:O	2.50	0.43
4:ZJ:78:SER:O	4:ZJ:354:GLY:HA3	2.18	0.43
4:ZP:73:LEU:HD21	4:ZP:292:TYR:HE1	1.83	0.43
4:ZU:367:ASP:O	4:ZU:371:GLU:HG2	2.18	0.43
4:ZV:44:ALA:HB3	4:ZV:50:LEU:HD22	2.01	0.43
4:ZV:208:TRP:NE1	4:ZV:268:GLN:OE1	2.50	0.43
4:ZX:74:ASP:OD1	4:ZX:74:ASP:N	2.51	0.43
4:ZX:210:VAL:O	4:ZX:227:SER:HB2	2.18	0.43
4:ZY:156:ILE:HD11	4:ZY:180:LYS:HG2	2.00	0.43
4:ZY:382:TYR:CE1	4:Zd:395:ILE:HG23	2.52	0.43
4:ZY:396:LEU:HD23	4:ZY:396:LEU:HA	1.77	0.43
4:Zb:17:LEU:CD1	4:Zg:395:ILE:HD11	2.47	0.43
4:Zc:379:GLN:HE22	4:Zh:394:GLN:NE2	2.13	0.43
4:Ze:10:LEU:HD11	4:Ze:382:TYR:CE1	2.53	0.43
4:Zg:322:ASN:HB3	4:Zg:340:SER:HA	2.01	0.43
5:AA:125:GLY:O	5:AA:126:PRO:C	2.61	0.43
5:AC:143:ILE:HB	5:AC:159:GLY:O	2.18	0.43
5:AC:231:MET:CE	3:AH:260:LEU:HB2	2.48	0.43
5:AD:243:ARG:CZ	12:BE:113:GLN:HB2	2.48	0.43
3:AG:95:VAL:O	3:AG:118:GLY:HA3	2.18	0.43
6:AT:295:SER:CB	11:A0:73:ILE:HG13	2.43	0.43
6:AY:370:ARG:NE	10:A3:7:ILE:HD11	2.32	0.43
7:Ab:37:ILE:HD13	7:Aq:44:ILE:HD11	2.00	0.43
6:Ag:429:THR:OG1	6:Ah:418:GLU:OE2	2.36	0.43
6:Ah:429:THR:OG1	6:Ai:418:GLU:OE2	2.36	0.43
8:At:205:ASN:HB3	9:Au:209:MET:HG3	2.00	0.43
6:UI:73:MET:HE1	6:UI:99:ARG:HD2	1.95	0.43
6:UJ:103:GLN:CB	6:WD:182:PRO:HA	2.48	0.43
6:UJ:160:PRO:HG2	6:UJ:170:LYS:HB3	2.00	0.43
6:UM:88:VAL:O	6:UM:89:PRO:C	2.60	0.43
6:UN:129:GLN:O	6:UN:133:GLN:N	2.29	0.43
6:WH:168:GLU:CD	6:WH:168:GLU:H	2.26	0.43
6:WM:142:ARG:O	6:WM:146:THR:HG23	2.18	0.43
6:WM:219:LEU:HG	6:WM:221:THR:H	1.82	0.43
6:WS:113:PHE:HB3	6:WT:134:ARG:CZ	2.49	0.43
6:WU:128:GLU:HG2	6:WV:126:PHE:CD2	2.48	0.43
6:BW:429:THR:OG1	6:BX:418:GLU:OE2	2.36	0.43
1:M:166:GLU:OE2	1:M:168:GLN:NE2	2.37	0.43
1:M:225:PHE:CE1	1:M:229:LEU:HD12	2.52	0.43
2:g:136:LEU:HG	2:g:172:GLU:HG3	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:136:LEU:HG	2:i:172:GLU:HG3	2.01	0.43
2:j:136:LEU:HG	2:j:172:GLU:HG3	2.00	0.43
2:j:318:SER:HB2	2:k:342:PRO:HD3	2.00	0.43
2:l:136:LEU:HG	2:l:172:GLU:HG3	2.01	0.43
2:m:136:LEU:HG	2:m:172:GLU:HG3	2.01	0.43
2:q:318:SER:HB2	2:r:342:PRO:HD3	2.00	0.43
2:s:108:SER:CB	2:t:43:VAL:HG23	2.47	0.43
2:u:108:SER:HB2	2:v:43:VAL:HG23	2.01	0.43
2:v:108:SER:HB2	2:w:43:VAL:HG23	2.01	0.43
2:x:108:SER:HB2	2:y:43:VAL:HG23	2.01	0.43
2:y:318:SER:HB2	2:z:342:PRO:HD3	2.00	0.43
3:0:85:ASN:O	3:0:221:THR:OG1	2.34	0.43
3:0:89:THR:HG21	3:0:94:ASP:HB2	2.01	0.43
3:2:95:VAL:O	3:2:118:GLY:HA3	2.18	0.43
3:8:154:ASP:O	3:8:172:GLN:NE2	2.52	0.43
3:ZE:70:THR:HG22	3:ZE:71:GLY:N	2.33	0.43
4:ZF:380:ARG:HH21	4:ZL:397:ASN:HB2	1.83	0.43
4:ZK:394:GLN:O	4:ZK:398:THR:HG22	2.18	0.43
4:ZM:129:GLN:NE2	4:ZM:132:ALA:HB2	2.32	0.43
4:ZN:267:MET:HE2	4:ZN:267:MET:HB3	1.78	0.43
4:ZP:107:ASN:ND2	4:ZP:138:THR:HG22	2.33	0.43
4:ZQ:128:ILE:HD13	4:ZQ:314:GLN:HB2	2.01	0.43
4:ZR:382:TYR:CE1	4:ZW:395:ILE:HG23	2.53	0.43
4:ZU:180:LYS:HB3	4:ZU:200:PHE:HD1	1.84	0.43
4:ZU:368:LEU:HD23	4:ZU:368:LEU:HA	1.80	0.43
4:ZV:144:MET:HB3	4:ZV:304:TYR:CE2	2.54	0.43
4:ZV:330:GLY:N	4:Za:43:PHE:HB2	2.33	0.43
4:Zd:269:GLN:HG2	4:Zd:270:ASN:H	1.82	0.43
5:AB:9:MET:HE1	6:BJ:315:ALA:HA	2.00	0.43
5:AB:72:ASP:OD1	5:AB:72:ASP:C	2.61	0.43
5:AD:16:LEU:HD23	3:AI:253:MET:HE3	1.87	0.43
5:AD:34:PHE:HB3	5:AD:209:SER:HB2	2.00	0.43
5:AD:104:ASN:ND2	3:AI:38:ARG:HH21	2.16	0.43
3:AF:79:ARG:NH1	3:AF:184:LEU:O	2.47	0.43
3:AL:2:ILE:CG1	3:AL:254:LEU:HD11	2.48	0.43
3:AN:254:LEU:O	3:AN:258:THR:HG23	2.19	0.43
6:Al:294:ARG:HD2	11:A7:68:THR:CG2	2.49	0.43
6:Ao:429:THR:OG1	6:Ap:418:GLU:OE2	2.36	0.43
9:Aw:143:ARG:HH22	9:Aw:177:SER:HA	1.83	0.43
9:Ay:124:GLN:H	9:Ay:124:GLN:HG2	1.67	0.43
11:A9:19:ARG:NH2	11:A9:115:LYS:HD3	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UO:80:ALA:N	6:UO:85:ALA:O	2.49	0.43
6:UP:125:GLN:C	6:UP:128:GLU:H	2.27	0.43
6:WE:132:TYR:HB2	6:WF:126:PHE:HZ	1.83	0.43
6:WN:147:LEU:O	6:WN:148:GLY:C	2.60	0.43
6:WT:131:ASN:HA	6:WT:134:ARG:HD3	1.99	0.43
6:BV:429:THR:OG1	6:BW:418:GLU:OE2	2.36	0.43
1:H:225:PHE:CE1	1:H:229:LEU:HD12	2.52	0.43
1:I:225:PHE:CE1	1:I:229:LEU:HD12	2.52	0.43
1:J:225:PHE:CE1	1:J:229:LEU:HD12	2.52	0.43
1:L:59:ASN:ND2	2:j:130:ASP:HB2	2.33	0.43
1:W:59:ASN:ND2	2:u:130:ASP:HB2	2.33	0.43
2:f:108:SER:CB	2:g:43:VAL:HG23	2.47	0.43
2:f:136:LEU:HG	2:f:172:GLU:HG3	2.01	0.43
2:g:108:SER:HB2	2:h:43:VAL:HG23	2.01	0.43
2:i:108:SER:HB2	2:j:43:VAL:HG23	2.01	0.43
2:r:318:SER:HB2	2:s:342:PRO:HD3	2.00	0.43
2:r:350:GLN:CD	2:t:142:LEU:HD23	2.43	0.43
2:s:318:SER:HB2	2:t:342:PRO:HD3	2.00	0.43
2:s:350:GLN:CD	2:u:142:LEU:HD23	2.43	0.43
2:t:108:SER:HB2	2:u:43:VAL:HG23	2.01	0.43
2:t:350:GLN:CD	2:v:142:LEU:HD23	2.43	0.43
2:w:108:SER:HB2	2:x:43:VAL:HG23	2.01	0.43
3:2:42:GLU:HG3	3:2:43:ASP:O	2.18	0.43
3:5:95:VAL:O	3:5:118:GLY:HA3	2.18	0.43
3:6:238:ARG:HD3	3:6:238:ARG:HA	1.78	0.43
3:8:249:THR:O	3:8:253:MET:HG3	2.18	0.43
3:ZC:128:LEU:HD12	3:ZC:140:ILE:HB	1.99	0.43
3:ZE:19:MET:HE2	3:ZE:19:MET:HB2	1.92	0.43
3:ZE:121:GLN:NE2	3:ZE:131:ALA:HA	2.33	0.43
4:ZJ:74:ASP:O	4:ZJ:359:GLY:N	2.36	0.43
4:ZK:102:LEU:HD21	4:ZK:106:ARG:HA	1.99	0.43
4:ZK:133:ASN:N	4:ZK:133:ASN:OD1	2.50	0.43
4:ZN:373:VAL:O	4:ZN:377:VAL:HG23	2.19	0.43
4:ZP:188:ASP:OD2	4:ZP:192:ASN:N	2.51	0.43
4:ZR:122:THR:OG1	4:ZR:129:GLN:OE1	2.26	0.43
4:ZV:42:MET:SD	4:ZV:53:LYS:HB3	2.58	0.43
4:ZX:37:ALA:HA	4:ZX:57:ILE:HD13	2.00	0.43
4:Za:149:THR:HG23	4:Za:259:PHE:HB3	2.01	0.43
4:Ze:156:ILE:HD11	4:Ze:180:LYS:HE2	1.99	0.43
5:AA:151:PRO:C	5:AA:153:ASN:N	2.73	0.43
5:AB:28:ASN:OD1	3:AG:72:VAL:CG2	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AB:73:TYR:HD1	5:AB:205:VAL:HG12	1.83	0.43
5:AB:193:LEU:HD23	5:AB:193:LEU:HA	1.87	0.43
5:AD:4:ALA:HB2	12:BE:22:ASN:OD1	2.19	0.43
5:AE:54:ARG:NH1	12:BF:22:ASN:OD1	2.51	0.43
3:AF:12:LEU:CD1	12:BF:99:VAL:HG11	2.49	0.43
3:AM:102:PHE:HB3	3:AM:114:TYR:HB3	2.00	0.43
6:AT:236:LYS:NZ	6:UJ:167:ARG:NH1	2.60	0.43
6:Aj:429:THR:OG1	6:Ak:418:GLU:OE2	2.36	0.43
7:Ar:77:VAL:HG12	9:Ax:229:VAL:HG11	2.00	0.43
9:Au:63:SER:HB2	9:Au:66:ARG:HH21	1.84	0.43
9:Av:119:GLN:HE22	11:A7:4:ARG:HG2	1.84	0.43
9:Aw:121:ILE:HD12	9:Aw:121:ILE:HA	1.90	0.43
9:Ax:59:LEU:HD21	10:A3:102:MET:HE1	2.01	0.43
10:Az:84:MET:HE2	11:A6:134:LEU:HD21	2.00	0.43
11:A0:63:VAL:H	6:BX:297:GLN:NE2	2.16	0.43
6:UP:160:PRO:HG2	6:UP:170:LYS:HB3	2.00	0.43
6:WD:193:ALA:HB1	6:WE:213:VAL:HG21	2.00	0.43
6:WG:166:VAL:HG12	6:WG:168:GLU:H	1.83	0.43
6:WW:187:ASP:H	6:WW:190:GLN:CD	2.26	0.43
1:E:225:PHE:CE1	1:E:229:LEU:HD12	2.52	0.43
1:G:225:PHE:CE1	1:G:229:LEU:HD12	2.52	0.43
1:P:166:GLU:OE2	1:P:168:GLN:NE2	2.37	0.43
2:a:136:LEU:HG	2:a:172:GLU:HG3	2.01	0.43
2:c:136:LEU:HG	2:c:172:GLU:HG3	2.01	0.43
2:d:318:SER:HB2	2:e:342:PRO:HD3	2.00	0.43
2:e:108:SER:HB2	2:f:43:VAL:HG23	2.01	0.43
2:f:108:SER:HB2	2:g:43:VAL:HG23	2.01	0.43
2:h:108:SER:HB2	2:i:43:VAL:HG23	2.01	0.43
2:h:318:SER:HB2	2:i:342:PRO:HD3	2.00	0.43
2:n:136:LEU:HG	2:n:172:GLU:HG3	2.01	0.43
2:q:350:GLN:CD	2:s:142:LEU:HD23	2.43	0.43
2:x:318:SER:HB2	2:y:342:PRO:HD3	2.00	0.43
2:y:136:LEU:HG	2:y:172:GLU:HG3	2.01	0.43
2:z:136:LEU:HG	2:z:172:GLU:HG3	2.01	0.43
3:1:188:GLY:O	3:1:190:ASN:N	2.47	0.43
3:2:79:ARG:HG3	3:2:79:ARG:NH1	2.34	0.43
3:4:257:LEU:HD23	3:4:257:LEU:HA	1.81	0.43
3:6:7:ILE:O	3:6:10:THR:OG1	2.36	0.43
3:ZD:44:LEU:HD23	3:ZD:44:LEU:HA	1.88	0.43
4:ZQ:34:SER:HB3	4:ZQ:366:VAL:HG12	2.01	0.43
4:ZS:6:ALA:C	4:ZS:8:SER:N	2.77	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZZ:56:GLY:C	4:ZZ:57:ILE:HD12	2.43	0.43
4:Zc:381:ASN:O	4:Zc:385:ASN:ND2	2.51	0.43
4:Zf:114:MET:HE3	4:Zf:333:VAL:HG21	2.01	0.43
4:Zh:185:THR:OG1	4:Zh:195:ASP:OD1	2.22	0.43
5:AA:245:ASN:OD1	5:AA:246:GLN:N	2.51	0.43
5:AB:9:MET:HB2	12:BB:103:VAL:HG21	1.99	0.43
5:AD:65:ASP:OD2	5:AD:212:LYS:NZ	2.52	0.43
3:AF:6:TRP:HE1	12:BA:77:VAL:HG12	1.80	0.43
3:AM:87:SER:OG	3:AM:219:VAL:HG23	2.19	0.43
6:Ap:429:THR:OG1	6:AO:418:GLU:OE2	2.36	0.43
6:AQ:429:THR:OG1	6:BR:418:GLU:OE2	2.36	0.43
7:As:29:LEU:HD12	8:At:216:ILE:HG13	2.01	0.43
9:Av:217:ILE:O	9:Av:220:PRO:HD2	2.18	0.43
9:Aw:114:GLN:O	9:Aw:118:GLU:HG2	2.19	0.43
9:Ay:147:LEU:HD12	6:WH:166:VAL:HG12	2.00	0.43
10:A3:59:PHE:CD2	10:A3:59:PHE:C	2.97	0.43
11:A9:117:GLN:HE22	12:BD:125:MET:CG	2.32	0.43
6:UJ:164:LEU:HD22	6:UJ:164:LEU:H	1.81	0.43
12:BB:82:ASN:HD22	12:BB:91:VAL:HG21	1.83	0.43
6:WD:172:PRO:HD2	6:WD:204:GLY:O	2.18	0.43
6:WV:113:PHE:HB3	6:WW:134:ARG:NH1	2.33	0.43
2:e:80:GLN:NE2	3:AK:203:GLU:CB	2.69	0.43
2:j:108:SER:HB2	2:k:43:VAL:HG23	2.01	0.43
2:k:136:LEU:HG	2:k:172:GLU:HG3	2.01	0.43
2:q:136:LEU:HG	2:q:172:GLU:HG3	2.01	0.43
2:u:350:GLN:CD	2:w:142:LEU:HD23	2.43	0.43
2:v:318:SER:CB	2:w:342:PRO:HD3	2.48	0.43
2:v:350:GLN:CD	2:x:142:LEU:HD23	2.43	0.43
3:0:37:GLN:NE2	3:5:67:GLN:O	2.49	0.43
3:5:249:THR:O	3:5:253:MET:HG3	2.19	0.43
3:ZA:76:ALA:CB	4:ZF:47:LYS:HD3	2.49	0.43
3:ZE:85:ASN:ND2	4:ZP:50:LEU:HD22	2.33	0.43
3:ZE:89:THR:HG23	3:ZE:91:ASN:HB2	2.00	0.43
4:ZF:158:LEU:HD22	4:ZF:208:TRP:CZ3	2.54	0.43
4:ZG:210:VAL:O	4:ZG:227:SER:N	2.52	0.43
4:ZJ:248:THR:HG23	4:ZJ:257:ALA:O	2.19	0.43
4:ZK:380:ARG:HD3	4:ZK:380:ARG:HA	1.53	0.43
4:ZM:30:TYR:HD1	4:ZM:363:ALA:HA	1.83	0.43
4:ZO:159:ASN:ND2	4:ZO:162:ASP:OD2	2.43	0.43
4:ZP:159:ASN:N	4:ZP:274:ASN:OD1	2.47	0.43
4:ZQ:373:VAL:HG11	4:ZW:7:VAL:HG22	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZS:202:LYS:HG3	4:ZS:208:TRP:CE2	2.53	0.43
4:ZV:188:ASP:OD2	4:ZV:194:HIS:NE2	2.51	0.43
4:Zg:269:GLN:HG2	4:Zg:270:ASN:H	1.83	0.43
5:AD:76:ARG:HH21	3:AI:38:ARG:NH2	2.17	0.43
3:AG:225:ASN:OD1	3:AG:226:VAL:N	2.51	0.43
3:AI:187:ILE:HG23	3:AI:193:ILE:HG12	2.00	0.43
3:AI:195:THR:HG22	3:AI:197:SER:H	1.84	0.43
6:AY:294:ARG:HD2	11:A9:68:THR:CG2	2.48	0.43
6:AY:294:ARG:HD2	11:A9:68:THR:HG21	2.01	0.43
8:At:224:VAL:O	8:At:228:LEU:HB2	2.18	0.43
11:A8:65:LEU:HD23	11:A8:75:ALA:CB	2.48	0.43
6:UI:75:ILE:HG21	6:UI:96:LEU:HD11	2.00	0.43
6:UI:125:GLN:C	6:UI:128:GLU:H	2.27	0.43
6:UL:75:ILE:HG21	6:UL:96:LEU:HD11	2.00	0.43
6:UN:55:PHE:O	6:UN:85:ALA:HA	2.18	0.43
6:WD:197:LEU:HD11	6:WE:156:HIS:HD2	1.84	0.43
6:WI:136:LEU:O	6:WI:137:GLU:C	2.62	0.43
6:WL:172:PRO:HD2	6:WL:204:GLY:O	2.19	0.43
6:WM:172:PRO:HD2	6:WM:204:GLY:O	2.18	0.43
6:WR:192:SER:O	6:WR:195:VAL:HB	2.19	0.43
1:F:166:GLU:OE2	1:F:168:GLN:NE2	2.37	0.43
2:b:136:LEU:HG	2:b:172:GLU:HG3	2.01	0.43
2:b:318:SER:HB2	2:c:342:PRO:HD3	2.00	0.43
2:b:350:GLN:CD	2:d:142:LEU:HD23	2.43	0.43
2:k:108:SER:HB2	2:l:43:VAL:HG23	2.01	0.43
2:n:318:SER:HB2	2:o:342:PRO:HD3	2.00	0.43
2:n:350:GLN:CD	2:p:142:LEU:HD23	2.43	0.43
2:p:136:LEU:HG	2:p:172:GLU:HG3	2.01	0.43
2:p:350:GLN:CD	2:r:142:LEU:HD23	2.43	0.43
2:s:108:SER:HB2	2:t:43:VAL:HG23	2.01	0.43
2:t:318:SER:HB2	2:u:342:PRO:HD3	2.00	0.43
2:u:136:LEU:HG	2:u:172:GLU:HG3	2.01	0.43
2:w:33:GLU:O	2:x:170:ILE:HD13	2.19	0.43
2:x:33:GLU:O	2:y:170:ILE:HD13	2.19	0.43
2:y:108:SER:HB2	2:z:43:VAL:HG23	2.01	0.43
3:6:44:LEU:HA	3:6:44:LEU:HD23	1.83	0.43
3:6:175:LEU:HG	3:6:206:PRO:HG3	2.00	0.43
3:8:42:GLU:N	3:8:73:ARG:O	2.52	0.43
3:ZB:244:SER:HB2	4:ZG:399:LEU:CD2	2.49	0.43
4:ZG:288:ASP:N	4:ZG:288:ASP:OD1	2.51	0.43
4:ZJ:121:ALA:HB1	4:ZJ:126:PRO:HB2	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZJ:367:ASP:CG	4:ZJ:370:LYS:HB2	2.44	0.43
4:ZP:77:ILE:HD13	4:ZP:356:LEU:HG	2.00	0.43
4:ZP:352:ASN:O	4:ZP:352:ASN:OD1	2.37	0.43
4:ZQ:75:VAL:O	4:ZQ:98:GLY:HA3	2.18	0.43
4:ZQ:352:ASN:OD1	4:ZQ:352:ASN:O	2.37	0.43
4:ZT:185:THR:HG22	4:ZT:187:TYR:HE1	1.84	0.43
4:ZT:186:VAL:C	4:ZT:187:TYR:HD1	2.26	0.43
4:ZU:159:ASN:HA	4:ZU:269:GLN:O	2.19	0.43
4:ZV:380:ARG:NE	4:Zb:393:ASP:OD2	2.46	0.43
4:ZX:307:GLU:O	4:ZX:308:GLN:HG2	2.18	0.43
4:ZY:5:GLN:HG2	4:ZY:50:LEU:O	2.19	0.43
4:Za:108:LEU:HD23	4:Za:108:LEU:HA	1.83	0.43
4:Ze:107:ASN:HD22	4:Ze:138:THR:HG22	1.82	0.43
5:AC:11:ALA:HB2	12:BD:29:ALA:HB1	2.01	0.43
3:AF:12:LEU:CD1	12:BF:99:VAL:CG1	2.97	0.43
3:AJ:35:LYS:HA	3:AJ:35:LYS:HD3	1.92	0.43
3:AN:7:ILE:HG12	3:AN:70:THR:O	2.19	0.43
6:AR:429:THR:OG1	6:Ac:418:GLU:OE2	2.36	0.43
6:AS:429:THR:OG1	6:AT:418:GLU:OE2	2.36	0.43
6:AV:290:LYS:HE3	6:AV:290:LYS:HB2	1.93	0.43
6:AW:429:THR:OG1	6:AX:418:GLU:OE2	2.36	0.43
6:Af:429:THR:OG1	6:Ag:418:GLU:OE2	2.36	0.43
6:AO:429:THR:OG1	6:AP:418:GLU:OE2	2.36	0.43
8:At:166:SER:C	8:At:168:ALA:H	2.27	0.43
9:Au:97:THR:HA	9:Au:100:ILE:HG22	2.00	0.43
9:Au:147:LEU:HD23	9:Au:147:LEU:HA	1.87	0.43
9:Av:190:PHE:CD1	9:Aw:220:PRO:HG3	2.54	0.43
9:Aw:141:GLN:NE2	9:Aw:243:PHE:HA	2.33	0.43
6:UJ:102:GLN:CG	6:UJ:193:ALA:HB2	2.49	0.43
6:UJ:125:GLN:C	6:UJ:128:GLU:H	2.27	0.43
12:BB:7:PHE:CD2	12:BB:119:LEU:HD11	2.54	0.43
6:WB:166:VAL:CG2	6:WB:169:GLN:HA	2.49	0.43
6:WV:130:VAL:HG12	6:WV:134:ARG:HD2	1.99	0.43
6:WV:200:SER:O	6:WW:158:ALA:HB3	2.16	0.43
2:a:170:ILE:HD13	2:z:33:GLU:O	2.19	0.43
2:d:53:THR:CG2	3:AK:209:ASN:OD1	2.66	0.43
2:f:350:GLN:CD	2:h:142:LEU:HD23	2.43	0.43
2:g:350:GLN:CD	2:i:142:LEU:HD23	2.43	0.43
2:p:318:SER:HB2	2:q:342:PRO:HD3	2.00	0.43
2:r:136:LEU:HG	2:r:172:GLU:HG3	2.01	0.43
2:t:33:GLU:O	2:u:170:ILE:HD13	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:x:136:LEU:HG	2:x:172:GLU:HG3	2.01	0.43
2:y:33:GLU:O	2:z:170:ILE:HD13	2.19	0.43
3:3:36:ARG:HE	3:3:80:LEU:HD22	1.84	0.43
3:8:185:GLU:HG3	3:ZD:67:GLN:HE22	1.83	0.43
3:ZD:77:THR:O	3:ZD:77:THR:OG1	2.32	0.43
4:ZI:396:LEU:HD23	4:ZI:396:LEU:HA	1.91	0.43
4:ZJ:199:TYR:O	4:ZJ:210:VAL:HA	2.19	0.43
4:ZK:58:THR:OG1	4:ZK:324:GLU:OE2	2.30	0.43
4:ZL:65:THR:HA	4:ZW:50:LEU:HD13	2.00	0.43
4:ZL:78:SER:O	4:ZL:354:GLY:HA3	2.19	0.43
4:ZQ:27:SER:OG	4:ZV:381:ASN:ND2	2.52	0.43
4:ZS:103:ASP:OD2	4:ZS:103:ASP:C	2.62	0.43
4:Zb:194:HIS:CE1	4:Zb:251:ILE:HD12	2.53	0.43
4:Zc:60:ASP:O	4:Zc:365:ASN:ND2	2.52	0.43
4:Zd:83:PHE:HB2	4:Zd:95:SER:O	2.19	0.43
4:Zf:71:ARG:HB2	4:Zf:74:ASP:OD2	2.19	0.43
5:AB:74:THR:OG1	5:AB:79:ASP:OD2	2.34	0.43
5:AC:72:ASP:CG	3:AN:9:LYS:HZ1	2.27	0.43
5:AC:231:MET:CE	3:AH:260:LEU:CD2	2.82	0.43
5:AD:82:LEU:HD11	5:AD:88:LEU:HG	2.00	0.43
3:AK:95:VAL:O	3:AK:118:GLY:HA3	2.18	0.43
6:AR:418:GLU:OE2	6:Aa:429:THR:OG1	2.36	0.43
6:AW:278:THR:CG2	10:A3:14:LEU:HD23	2.49	0.43
6:Al:429:THR:OG1	6:Am:418:GLU:OE2	2.36	0.43
7:As:45:ASN:N	7:As:45:ASN:OD1	2.49	0.43
8:At:49:MET:HE1	9:Ay:175:VAL:HG21	2.01	0.43
8:At:88:MET:HA	8:At:247:ILE:HG21	1.99	0.43
9:Ax:106:ASP:OD2	10:A3:32:VAL:HG23	2.19	0.43
9:Ax:159:LEU:HD22	6:WE:164:LEU:HD21	2.00	0.43
6:UL:125:GLN:C	6:UL:128:GLU:H	2.27	0.43
12:BA:122:VAL:O	12:BA:126:MET:HG2	2.18	0.43
6:WC:142:ARG:O	6:WC:146:THR:HG23	2.18	0.43
6:WH:186:LEU:HD22	6:WH:190:GLN:HG2	2.00	0.43
6:WP:163:SER:C	6:WP:165:PHE:N	2.76	0.43
1:J:166:GLU:OE2	1:J:168:GLN:NE2	2.37	0.43
1:N:166:GLU:OE2	1:N:168:GLN:NE2	2.37	0.43
1:Q:166:GLU:OE2	1:Q:168:GLN:NE2	2.37	0.43
2:a:43:VAL:HG23	2:z:108:SER:HB2	2.01	0.43
2:c:33:GLU:O	2:d:170:ILE:HD13	2.19	0.43
2:d:108:SER:HB2	2:e:43:VAL:HG23	2.01	0.43
2:f:33:GLU:O	2:g:170:ILE:HD13	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g:33:GLU:O	2:h:170:ILE:HD13	2.19	0.43
2:h:350:GLN:CD	2:j:142:LEU:HD23	2.43	0.43
2:i:350:GLN:CD	2:k:142:LEU:HD23	2.43	0.43
2:l:350:GLN:CD	2:n:142:LEU:HD23	2.43	0.43
2:n:33:GLU:O	2:o:170:ILE:HD13	2.19	0.43
2:o:33:GLU:O	2:p:170:ILE:HD13	2.19	0.43
2:o:136:LEU:HG	2:o:172:GLU:HG3	2.01	0.43
2:o:350:GLN:CD	2:q:142:LEU:HD23	2.43	0.43
2:p:33:GLU:O	2:q:170:ILE:HD13	2.19	0.43
2:r:108:SER:HB2	2:s:43:VAL:HG23	2.01	0.43
2:v:136:LEU:HG	2:v:172:GLU:HG3	2.01	0.43
2:w:136:LEU:HG	2:w:172:GLU:HG3	2.01	0.43
3:0:95:VAL:O	3:0:118:GLY:HA3	2.18	0.43
3:2:237:GLN:O	3:2:241:GLU:HG3	2.19	0.43
3:5:153:ARG:HH22	3:ZB:108:PRO:HG2	1.82	0.43
3:7:49:ILE:HB	3:7:66:LEU:HB3	2.01	0.43
3:8:179:MET:HE2	3:8:179:MET:HA	2.01	0.43
3:9:95:VAL:O	3:9:118:GLY:HA3	2.19	0.43
3:ZA:103:PHE:HE1	3:ZA:214:LEU:HD21	1.83	0.43
3:ZE:137:GLN:HA	3:ZE:138:PRO:C	2.43	0.43
4:ZG:396:LEU:HD23	4:ZG:396:LEU:HA	1.80	0.43
4:ZN:230:LEU:HD12	4:ZN:230:LEU:HA	1.85	0.43
4:ZO:212:THR:O	4:ZO:223:PRO:HG3	2.19	0.43
4:ZQ:382:TYR:CE1	4:ZV:395:ILE:HG23	2.53	0.43
4:ZR:229:THR:O	4:ZR:241:GLY:HA3	2.19	0.43
4:ZS:41:ASP:OD2	4:ZS:41:ASP:N	2.45	0.43
4:ZX:99:GLN:HB3	4:ZX:111:MET:HE3	2.01	0.43
4:ZX:396:LEU:HD23	4:ZX:396:LEU:HA	1.78	0.43
4:Ze:397:ASN:O	4:Ze:400:VAL:N	2.52	0.43
4:Zf:99:GLN:HE21	4:Zf:361:LEU:HD11	1.84	0.43
4:Zh:392:GLN:HA	4:Zh:395:ILE:CG2	2.49	0.43
5:AA:217:MET:HE2	3:AL:257:LEU:O	2.18	0.43
5:AC:16:LEU:HD21	3:AH:253:MET:HE3	2.01	0.43
5:AD:169:ASN:OD1	5:AD:169:ASN:N	2.51	0.43
3:AM:195:THR:HG22	3:AM:197:SER:H	1.83	0.43
6:AU:421:GLY:O	6:AU:426:ARG:NH2	2.51	0.43
6:AX:429:THR:OG1	6:AY:418:GLU:OE2	2.36	0.43
6:Ad:429:THR:OG1	6:Ae:418:GLU:OE2	2.36	0.43
6:Ai:429:THR:OG1	6:Aj:418:GLU:OE2	2.36	0.43
6:AQ:374:HIS:CG	10:A5:15:GLN:HB2	2.53	0.43
9:Au:160:GLN:HB3	6:WP:166:VAL:HG21	1.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:A0:31:ALA:HB1	12:BE:13:ALA:HB2	1.99	0.43
6:UJ:80:ALA:N	6:UJ:85:ALA:O	2.49	0.43
6:UK:94:HIS:HB2	6:UK:146:THR:HG21	1.97	0.43
6:WJ:197:LEU:HD13	6:WK:175:SER:OG	2.09	0.43
6:WQ:193:ALA:CB	6:WR:217:GLY:O	2.67	0.43
6:WS:142:ARG:O	6:WS:146:THR:HG23	2.17	0.43
6:WT:161:LYS:CB	6:WT:162:PRO:HD2	2.49	0.43
6:WV:164:LEU:O	6:WV:166:VAL:N	2.49	0.43
1:T:59:ASN:ND2	2:r:130:ASP:HB2	2.33	0.42
2:a:33:GLU:O	2:b:170:ILE:HD13	2.19	0.42
2:b:142:LEU:HD23	2:z:350:GLN:CD	2.43	0.42
2:d:33:GLU:O	2:e:170:ILE:HD13	2.19	0.42
2:e:33:GLU:O	2:f:170:ILE:HD13	2.19	0.42
2:e:350:GLN:CD	2:g:142:LEU:HD23	2.43	0.42
2:j:350:GLN:CD	2:l:142:LEU:HD23	2.43	0.42
2:k:350:GLN:CD	2:m:142:LEU:HD23	2.43	0.42
2:l:108:SER:HB2	2:m:43:VAL:HG23	2.01	0.42
2:q:33:GLU:O	2:r:170:ILE:HD13	2.19	0.42
2:w:350:GLN:CD	2:y:142:LEU:HD23	2.43	0.42
3:1:7:ILE:HG12	3:1:70:THR:O	2.18	0.42
3:3:173:LEU:HD23	3:3:214:LEU:HD13	1.99	0.42
3:5:3:SER:HB2	3:AI:85:ASN:ND2	2.34	0.42
3:7:44:LEU:HD23	3:7:44:LEU:HA	1.84	0.42
3:9:257:LEU:O	3:9:258:THR:C	2.61	0.42
3:ZC:241:GLU:HG2	4:ZH:398:THR:HG21	2.00	0.42
3:ZD:123:ASP:OD1	3:ZD:123:ASP:N	2.47	0.42
3:ZE:19:MET:HE2	3:ZE:236:VAL:HG12	2.01	0.42
4:ZL:159:ASN:HD21	4:ZL:161:THR:HG23	1.84	0.42
4:ZN:165:PRO:HB3	4:ZN:176:ASP:O	2.19	0.42
4:ZR:204:LYS:HG2	4:ZR:205:ASP:H	1.84	0.42
4:ZR:211:TYR:CE1	4:ZR:226:ALA:HA	2.53	0.42
4:ZS:288:ASP:O	4:ZS:305:SER:N	2.52	0.42
4:ZT:262:SER:OG	4:ZT:264:LEU:HG	2.18	0.42
4:ZV:346:GLY:HA3	4:ZV:353:PHE:CE2	2.54	0.42
4:ZW:111:MET:HE2	4:ZW:111:MET:HA	2.00	0.42
4:ZZ:119:TYR:HB2	4:ZZ:128:ILE:HD11	2.01	0.42
4:ZZ:319:ASN:HB2	4:ZZ:353:PHE:CE1	2.54	0.42
4:Ze:100:PHE:CE2	4:Ze:116:LEU:HD13	2.53	0.42
4:Zg:96:ARG:H	4:Zg:334:TRP:HZ3	1.67	0.42
5:AB:80:VAL:HB	5:AB:201:ILE:HD11	2.01	0.42
5:AB:181:LEU:HD23	5:AB:181:LEU:HA	1.90	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AB:240:ASN:HD22	5:AB:240:ASN:HA	1.61	0.42
5:AD:217:MET:CE	3:AI:242:ILE:CD1	2.94	0.42
3:AH:77:THR:HG23	3:AM:66:LEU:HB2	2.01	0.42
3:AH:80:LEU:HD22	3:AH:82:SER:HB3	2.00	0.42
3:AM:189:GLU:O	3:AM:191:LEU:HG	2.19	0.42
6:AS:372:ILE:HB	10:A4:4:ILE:HG12	2.00	0.42
6:AT:421:GLY:O	6:AT:426:ARG:NH2	2.51	0.42
6:AV:421:GLY:O	6:AV:426:ARG:NH2	2.51	0.42
7:Ab:4:GLU:OE2	6:WT:124:SER:OG	2.33	0.42
7:Ab:75:ASP:OD1	6:WQ:124:SER:CB	2.67	0.42
7:Ab:75:ASP:OD1	6:WQ:124:SER:HA	2.19	0.42
6:Al:290:LYS:HE3	6:Al:290:LYS:HB2	1.93	0.42
7:Aq:2:THR:O	7:Aq:5:SER:OG	2.35	0.42
6:UJ:52:ARG:O	6:UJ:88:VAL:N	2.37	0.42
6:UK:75:ILE:HG21	6:UK:96:LEU:HD11	2.00	0.42
6:UK:125:GLN:C	6:UK:128:GLU:H	2.27	0.42
6:UL:102:GLN:CG	6:UL:193:ALA:HB2	2.49	0.42
6:UL:103:GLN:HG2	6:WH:182:PRO:CB	2.46	0.42
6:WD:214:ASP:OD1	6:WD:218:HIS:N	2.51	0.42
6:WH:200:SER:O	6:WI:158:ALA:HB3	2.13	0.42
6:WJ:160:PRO:HG2	6:WJ:170:LYS:O	2.18	0.42
6:WL:147:LEU:O	6:WL:148:GLY:C	2.61	0.42
6:WN:172:PRO:HD2	6:WN:204:GLY:O	2.19	0.42
6:WW:112:GLY:HA3	6:WW:135:ALA:HA	2.00	0.42
12:BE:3:LEU:HD12	12:BE:3:LEU:HA	1.92	0.42
6:BJ:322:PRO:HA	6:BJ:323:PRO:HD3	1.94	0.42
2:d:350:GLN:CD	2:f:142:LEU:HD23	2.43	0.42
2:f:53:THR:CG2	3:AK:127:GLN:NE2	2.73	0.42
2:h:33:GLU:O	2:i:170:ILE:HD13	2.19	0.42
2:i:318:SER:HB2	2:j:342:PRO:HD3	2.00	0.42
2:m:54:GLN:NE2	3:AI:208:LEU:HB3	2.34	0.42
2:s:33:GLU:O	2:t:170:ILE:HD13	2.19	0.42
2:s:136:LEU:HG	2:s:172:GLU:HG3	2.00	0.42
2:t:136:LEU:HG	2:t:172:GLU:HG3	2.01	0.42
2:u:318:SER:HB2	2:v:342:PRO:HD3	2.00	0.42
2:v:33:GLU:O	2:w:170:ILE:HD13	2.19	0.42
2:w:318:SER:HB2	2:x:342:PRO:HD3	2.00	0.42
3:4:34:PHE:HB3	3:4:222:SER:HB3	2.01	0.42
3:4:122:VAL:HG13	3:4:126:GLY:HA2	2.01	0.42
3:7:142:ILE:HD13	3:7:170:VAL:HG21	2.00	0.42
3:ZA:35:LYS:O	3:ZA:79:ARG:NH1	2.46	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ZA:86:LEU:HD22	3:ZA:96:ALA:HB1	2.01	0.42
3:ZD:138:PRO:O	3:ZD:140:ILE:HG13	2.19	0.42
4:ZK:112:GLN:HG2	4:ZK:331:ASP:HB3	1.99	0.42
4:ZL:3:PHE:HE1	4:ZL:396:LEU:HD12	1.84	0.42
4:ZL:280:ASN:OD1	4:ZL:281:GLN:N	2.52	0.42
4:ZM:71:ARG:NH1	4:ZM:74:ASP:OD1	2.52	0.42
4:ZQ:319:ASN:OD1	4:ZQ:344:LEU:HB2	2.20	0.42
4:ZS:319:ASN:C	4:ZS:319:ASN:OD1	2.62	0.42
4:ZU:396:LEU:HD23	4:ZU:396:LEU:HA	1.80	0.42
4:ZY:137:ILE:HG21	4:ZY:300:VAL:HG21	2.00	0.42
4:Zc:5:GLN:HG2	4:Zc:50:LEU:O	2.19	0.42
4:Zf:27:SER:O	4:Zf:364:SER:OG	2.36	0.42
4:Zf:107:ASN:ND2	4:Zf:138:THR:HG22	2.34	0.42
4:Zh:320:PHE:CD2	4:Zh:340:SER:HB2	2.54	0.42
5:AB:68:PRO:CG	3:AM:47:GLN:HB2	2.50	0.42
5:AB:72:ASP:OD1	5:AB:74:THR:HG23	2.18	0.42
5:AC:72:ASP:CG	3:AN:9:LYS:NZ	2.78	0.42
5:AD:181:LEU:HD11	5:AD:193:LEU:HG	2.00	0.42
3:AH:151:ILE:HG12	3:AH:157:VAL:HG22	2.01	0.42
6:AW:421:GLY:O	6:AW:426:ARG:NH2	2.51	0.42
6:AZ:429:THR:OG1	6:Aa:418:GLU:OE2	2.36	0.42
6:AP:297:GLN:HE22	11:A6:77:ALA:HB3	1.84	0.42
7:Ar:84:LEU:HD21	9:Ax:185:ILE:HG23	2.01	0.42
9:Au:63:SER:O	9:Au:67:ILE:HD12	2.19	0.42
9:Ay:82:SER:OG	9:Ay:82:SER:O	2.37	0.42
10:Az:74:ASP:OD2	10:Az:74:ASP:N	2.52	0.42
10:A5:11:ILE:HG22	6:BR:372:ILE:CB	2.49	0.42
11:A6:114:LEU:HD21	12:BB:123:LYS:HG3	2.00	0.42
6:UK:102:GLN:CG	6:UK:193:ALA:HB2	2.49	0.42
6:UN:99:ARG:O	6:UN:103:GLN:HG3	2.18	0.42
6:UO:125:GLN:C	6:UO:128:GLU:H	2.27	0.42
12:BA:13:ALA:HA	12:BA:62:VAL:HG12	2.02	0.42
6:WA:181:GLU:O	6:WA:182:PRO:C	2.60	0.42
6:WA:187:ASP:OD1	6:WA:190:GLN:N	2.42	0.42
6:WF:140:LEU:O	6:WF:144:ILE:HG13	2.19	0.42
6:WI:161:LYS:HA	6:WI:162:PRO:HD3	1.89	0.42
6:WI:191:ILE:O	6:WI:195:VAL:HG23	2.19	0.42
6:BT:429:THR:OG1	6:BU:418:GLU:OE2	2.36	0.42
3:3:218:TYR:CE1	3:ZE:73:ARG:HD2	2.53	0.42
3:4:67:GLN:NE2	3:AN:185:GLU:OE2	2.52	0.42
3:9:124:GLN:HB2	3:ZE:199:GLY:HA2	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ZB:225:ASN:O	3:ZB:229:GLU:HG2	2.19	0.42
3:ZE:70:THR:CG2	3:ZE:71:GLY:H	2.32	0.42
4:ZF:93:PHE:HB3	4:ZF:333:VAL:HG13	2.00	0.42
4:ZG:107:ASN:ND2	4:ZG:138:THR:HG22	2.33	0.42
4:ZS:180:LYS:NZ	4:ZS:274:ASN:O	2.52	0.42
4:ZS:373:VAL:O	4:ZS:377:VAL:HG23	2.20	0.42
4:ZU:386:ALA:O	4:ZU:389:ILE:HG22	2.19	0.42
4:ZZ:97:ASN:HD22	4:ZZ:332:ASN:ND2	2.17	0.42
4:Zb:380:ARG:HA	4:Zb:380:ARG:HD3	1.68	0.42
4:Zf:187:TYR:HB3	4:Zf:191:GLY:HA2	2.00	0.42
4:Zg:117:THR:HA	4:Zg:136:PRO:HA	2.01	0.42
5:AC:59:ALA:O	3:AH:66:LEU:HG	2.20	0.42
6:AS:374:HIS:HB2	10:A4:4:ILE:CD1	2.50	0.42
6:AX:278:THR:HG21	10:A3:7:ILE:CB	2.50	0.42
6:AP:296:ARG:HG2	6:AP:296:ARG:NH1	2.35	0.42
8:At:243:LEU:HD23	8:At:243:LEU:HA	1.82	0.42
9:Av:161:GLY:O	9:Av:162:PRO:C	2.62	0.42
9:Ay:240:ALA:CB	6:WG:165:PHE:HE1	2.18	0.42
11:A6:85:LEU:HD23	11:A6:85:LEU:HA	1.81	0.42
6:WB:181:GLU:O	6:WB:182:PRO:C	2.60	0.42
6:WH:140:LEU:O	6:WH:144:ILE:HG13	2.20	0.42
6:WN:140:LEU:O	6:WN:144:ILE:HG13	2.20	0.42
6:WN:200:SER:C	6:WO:173:SER:HG	2.27	0.42
6:WQ:140:LEU:O	6:WQ:144:ILE:HG13	2.20	0.42
6:WS:140:LEU:O	6:WS:144:ILE:HG13	2.20	0.42
6:WU:192:SER:O	6:WU:195:VAL:HB	2.20	0.42
1:G:40:ILE:HD13	1:G:40:ILE:HA	1.87	0.42
1:Y:166:GLU:OE2	1:Y:168:GLN:NE2	2.37	0.42
2:a:142:LEU:HD23	2:y:350:GLN:CD	2.43	0.42
2:c:108:SER:HB2	2:d:43:VAL:HG23	2.01	0.42
2:j:33:GLU:O	2:k:170:ILE:HD13	2.19	0.42
2:m:33:GLU:O	2:n:170:ILE:HD13	2.19	0.42
2:m:108:SER:HB2	2:n:43:VAL:HG23	2.01	0.42
2:q:108:SER:HB2	2:r:43:VAL:HG23	2.01	0.42
2:x:350:GLN:CD	2:z:142:LEU:HD23	2.43	0.42
3:0:9:LYS:HG3	3:AI:231:VAL:HG21	2.01	0.42
3:1:100:GLN:NE2	3:1:210:GLY:O	2.52	0.42
3:4:196:GLN:NE2	3:9:53:GLY:O	2.52	0.42
3:6:42:GLU:HB3	3:6:75:VAL:HG22	2.01	0.42
3:ZA:55:GLN:HG3	3:ZA:57:SER:O	2.19	0.42
3:ZA:59:GLN:HG2	3:ZA:60:THR:HG23	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ZA:238:ARG:NE	4:ZG:393:ASP:OD1	2.40	0.42
3:ZB:44:LEU:HD23	3:ZB:44:LEU:HA	1.87	0.42
3:ZD:24:ASN:ND2	4:ZI:49:GLY:CA	2.74	0.42
4:ZF:104:GLU:CD	4:ZK:341:GLY:HA2	2.45	0.42
4:ZH:281:GLN:OE1	4:ZH:281:GLN:C	2.63	0.42
4:ZI:105:ASN:OD1	4:ZI:105:ASN:N	2.53	0.42
4:ZK:27:SER:HA	4:ZK:366:VAL:CG2	2.48	0.42
4:ZN:390:LYS:O	4:ZN:394:GLN:HG3	2.19	0.42
4:ZP:175:ALA:HA	4:ZP:178:TYR:CZ	2.55	0.42
4:ZR:10:LEU:HG	4:ZR:382:TYR:CE2	2.55	0.42
4:ZR:18:ASP:HB3	4:ZW:5:GLN:HE22	1.85	0.42
4:ZS:109:VAL:HG12	4:ZS:115:GLN:HA	2.01	0.42
4:ZS:245:ASN:OD1	4:ZS:245:ASN:N	2.53	0.42
4:ZU:322:ASN:HB3	4:ZU:340:SER:HA	2.01	0.42
4:ZX:361:LEU:HD12	4:ZX:361:LEU:HA	1.89	0.42
4:Za:125:PRO:HA	4:Za:126:PRO:HD2	1.85	0.42
4:Za:368:LEU:O	4:Za:372:LEU:N	2.47	0.42
4:Za:375:MET:HE2	4:Za:375:MET:HB2	1.82	0.42
4:Zb:111:MET:N	4:Zb:111:MET:SD	2.92	0.42
4:Zd:296:ASN:OD1	4:Zd:355:LYS:HD2	2.20	0.42
5:AC:9:MET:HE1	6:BL:315:ALA:HA	2.00	0.42
5:AC:24:SER:HA	3:AH:7:ILE:CG2	2.49	0.42
3:AG:238:ARG:NH2	3:AM:251:ASP:OD1	2.27	0.42
3:AH:189:GLU:HG2	3:AM:42:GLU:CD	2.45	0.42
3:AI:6:TRP:NE1	12:BD:77:VAL:HB	2.34	0.42
3:AL:98:LYS:O	3:AL:98:LYS:HG2	2.19	0.42
3:AM:120:PHE:CE1	3:AM:136:VAL:HG21	2.54	0.42
3:AN:185:GLU:HB3	3:AN:193:ILE:HG13	2.02	0.42
6:AR:296:ARG:HG2	6:AR:296:ARG:NH1	2.35	0.42
6:AV:429:THR:OG1	6:AW:418:GLU:OE2	2.36	0.42
6:AW:296:ARG:HG2	6:AW:296:ARG:NH1	2.35	0.42
6:AX:296:ARG:HG2	6:AX:296:ARG:NH1	2.35	0.42
6:AX:421:GLY:O	6:AX:426:ARG:NH2	2.51	0.42
6:Ad:296:ARG:HG2	6:Ad:296:ARG:NH1	2.35	0.42
6:Aj:278:THR:HG21	10:A1:7:ILE:HG22	2.01	0.42
6:Am:294:ARG:HD3	11:A7:69:SER:OG	2.19	0.42
6:AQ:296:ARG:HG2	6:AQ:296:ARG:NH1	2.35	0.42
7:Ar:52:ILE:O	7:Ar:55:ILE:HG22	2.18	0.42
10:A2:9:GLY:O	10:A2:13:GLN:HG3	2.18	0.42
6:WA:113:PHE:CE2	6:WA:139:GLU:HG3	2.54	0.42
6:WF:181:GLU:CB	6:WF:184:ARG:CG	2.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WI:142:ARG:O	6:WI:146:THR:HG23	2.19	0.42
6:WK:128:GLU:OE1	6:WL:126:PHE:CE2	2.73	0.42
6:WT:140:LEU:O	6:WT:144:ILE:HG13	2.20	0.42
6:WW:169:GLN:NE2	6:WW:170:LYS:O	2.53	0.42
1:B:59:ASN:ND2	2:z:130:ASP:HB2	2.33	0.42
1:E:59:ASN:ND2	2:c:130:ASP:HB2	2.33	0.42
1:Q:59:ASN:ND2	2:o:130:ASP:HB2	2.33	0.42
1:X:40:ILE:HD13	1:X:40:ILE:HA	1.87	0.42
2:g:188:GLN:CB	2:h:101:GLN:NE2	2.83	0.42
2:i:188:GLN:CB	2:j:101:GLN:NE2	2.83	0.42
2:j:54:GLN:OE1	3:AJ:139:ALA:HB3	2.18	0.42
2:m:350:GLN:CD	2:o:142:LEU:HD23	2.43	0.42
2:n:108:SER:HB2	2:o:43:VAL:HG23	2.01	0.42
2:n:188:GLN:CB	2:o:101:GLN:NE2	2.83	0.42
2:t:51:GLN:O	2:t:52:THR:OG1	2.36	0.42
2:u:33:GLU:O	2:v:170:ILE:HD13	2.19	0.42
3:1:28:ASN:ND2	3:6:43:ASP:OD1	2.53	0.42
3:2:256:LYS:HG2	3:AL:241:GLU:HG2	2.01	0.42
4:ZG:214:ASP:OD2	4:ZG:249:GLY:N	2.46	0.42
4:ZK:153:SER:HB2	4:ZK:280:ASN:OD1	2.19	0.42
4:ZK:317:LEU:HD11	4:ZK:356:LEU:HD11	2.00	0.42
4:ZN:6:ALA:HB1	4:ZN:389:ILE:HG12	2.02	0.42
4:ZS:373:VAL:HG11	4:ZY:7:VAL:HG22	2.02	0.42
4:Zb:326:LEU:HD12	4:Zb:340:SER:HB2	2.01	0.42
4:Zb:373:VAL:HG11	4:Zh:7:VAL:HG22	2.02	0.42
4:Zb:379:GLN:OE1	4:Zg:391:THR:HG23	2.19	0.42
4:Zc:213:HIS:HB2	4:Zc:223:PRO:HG3	2.01	0.42
5:AB:181:LEU:HD11	5:AB:193:LEU:HD21	2.01	0.42
5:AC:71:LEU:CG	3:AN:70:THR:HG21	2.49	0.42
5:AC:115:ILE:HG13	5:AC:120:VAL:HG22	2.01	0.42
3:AF:107:LEU:HD11	3:AF:191:LEU:HD13	2.01	0.42
3:AI:175:LEU:HD12	3:AI:206:PRO:HB3	2.00	0.42
6:AV:296:ARG:HG2	6:AV:296:ARG:NH1	2.35	0.42
6:Ac:296:ARG:HG2	6:Ac:296:ARG:NH1	2.35	0.42
6:Ae:370:ARG:NE	10:A2:7:ILE:HD11	2.23	0.42
6:Aj:404:LEU:HD22	6:Aj:409:MET:HE3	2.02	0.42
6:Am:429:THR:OG1	6:An:418:GLU:OE2	2.36	0.42
6:An:429:THR:OG1	6:Ao:418:GLU:OE2	2.36	0.42
7:Ar:54:LYS:HB3	7:Ar:54:LYS:HE2	1.83	0.42
8:At:122:MET:HG3	9:Ay:214:PRO:HG2	2.01	0.42
8:At:125:LEU:O	8:At:129:MET:HG3	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:At:167:ASN:ND2	8:At:174:ARG:HH12	2.18	0.42
9:Av:114:GLN:HB3	9:Av:115:PRO:HD3	2.01	0.42
9:Aw:59:LEU:O	9:Aw:65:THR:OG1	2.30	0.42
9:Ax:171:LEU:HB3	9:Ax:172:PRO:HD3	2.01	0.42
9:Ay:121:ILE:HG23	9:Ay:125:GLU:HB3	2.02	0.42
10:A4:73:ALA:HB1	11:A0:13:GLN:NE2	2.33	0.42
11:A0:36:PRO:HG2	6:BP:311:GLY:H	1.84	0.42
6:UJ:75:ILE:HG21	6:UJ:96:LEU:HD11	2.00	0.42
6:UN:69:GLN:HG3	6:UN:103:GLN:OE1	2.19	0.42
6:UN:125:GLN:C	6:UN:128:GLU:H	2.27	0.42
6:WB:135:ALA:O	6:WB:139:GLU:HG2	2.18	0.42
6:WE:140:LEU:O	6:WE:144:ILE:HG13	2.20	0.42
6:WI:187:ASP:H	6:WI:190:GLN:CD	2.28	0.42
6:WK:145:GLU:C	6:WK:147:LEU:N	2.76	0.42
6:WK:165:PHE:O	6:WK:166:VAL:HB	2.19	0.42
6:WM:190:GLN:HA	6:WN:217:GLY:HA3	2.00	0.42
6:WR:140:LEU:O	6:WR:144:ILE:HG13	2.20	0.42
6:WR:165:PHE:O	6:WR:166:VAL:HG22	2.19	0.42
6:WT:113:PHE:CE1	6:WU:134:ARG:HG2	2.54	0.42
6:WW:172:PRO:HD2	6:WW:204:GLY:O	2.18	0.42
12:BD:112:TYR:CE2	12:BD:116:ILE:HD11	2.55	0.42
6:BW:296:ARG:HG2	6:BW:296:ARG:NH1	2.35	0.42
1:H:59:ASN:ND2	2:f:130:ASP:HB2	2.33	0.42
1:U:110:PRO:HD3	1:V:124:MET:HB3	2.00	0.42
2:a:108:SER:HB2	2:b:43:VAL:HG23	2.01	0.42
2:c:318:SER:HB2	2:d:342:PRO:HD3	2.00	0.42
2:c:350:GLN:CD	2:e:142:LEU:HD23	2.43	0.42
2:h:80:GLN:HE22	5:AE:154:THR:CG2	2.33	0.42
2:i:33:GLU:O	2:j:170:ILE:HD13	2.19	0.42
2:l:188:GLN:CB	2:m:101:GLN:NE2	2.83	0.42
2:r:33:GLU:O	2:s:170:ILE:HD13	2.19	0.42
2:t:78:ASN:HB3	3:AH:168:VAL:CG1	2.39	0.42
2:y:51:GLN:HE21	2:y:51:GLN:HB3	1.63	0.42
3:0:35:LYS:HD2	3:0:81:HIS:HA	2.01	0.42
3:7:76:ALA:HB1	3:ZC:64:SER:O	2.19	0.42
3:9:43:ASP:OD1	3:9:44:LEU:N	2.53	0.42
3:9:245:LYS:HB2	3:9:245:LYS:HE2	1.78	0.42
3:ZC:80:LEU:HD23	3:ZC:80:LEU:HA	1.75	0.42
3:ZD:58:GLU:HB3	3:ZD:59:GLN:OE1	2.20	0.42
4:ZF:374:ASN:HA	4:ZF:377:VAL:HG22	2.00	0.42
4:ZN:269:GLN:HG2	4:ZT:190:GLN:O	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZR:246:ILE:HD13	4:ZR:246:ILE:HA	1.88	0.42
4:ZR:387:GLN:O	4:ZR:391:THR:HG23	2.19	0.42
4:ZT:93:PHE:HB3	4:ZT:333:VAL:HG13	2.01	0.42
4:ZU:78:SER:O	4:ZU:354:GLY:HA3	2.20	0.42
4:ZX:16:ASN:HB2	4:ZX:39:PHE:HZ	1.85	0.42
5:AA:15:THR:OG1	5:AA:226:ARG:NH1	2.52	0.42
5:AB:72:ASP:HB2	3:AM:9:LYS:HZ3	1.85	0.42
5:AC:83:GLN:HG2	5:AC:84:GLN:N	2.34	0.42
5:AC:202:MET:SD	3:AN:44:LEU:HD22	2.60	0.42
5:AD:15:THR:OG1	5:AD:226:ARG:NH1	2.53	0.42
3:AH:95:VAL:O	3:AH:118:GLY:HA3	2.20	0.42
3:AL:127:GLN:HA	3:AL:140:ILE:O	2.19	0.42
3:AL:180:ASN:O	3:AL:198:SER:HB2	2.19	0.42
6:AS:421:GLY:O	6:AS:426:ARG:NH2	2.51	0.42
7:Ab:8:MET:CE	6:WS:124:SER:CB	2.82	0.42
6:Ae:296:ARG:HG2	6:Ae:296:ARG:NH1	2.35	0.42
6:Ae:374:HIS:CB	10:A2:4:ILE:CD1	2.93	0.42
6:Al:404:LEU:HD22	6:Al:409:MET:HE3	2.02	0.42
6:Am:404:LEU:HD22	6:Am:409:MET:HE3	2.02	0.42
6:AO:290:LYS:HE3	6:AO:290:LYS:HB2	1.93	0.42
6:AO:296:ARG:HG2	6:AO:296:ARG:NH1	2.35	0.42
8:At:145:TRP:HA	6:WJ:164:LEU:CD1	2.50	0.42
8:At:254:ILE:HD13	8:At:254:ILE:HA	1.86	0.42
9:Au:214:PRO:HG2	9:Av:212:VAL:HG22	2.02	0.42
9:Av:121:ILE:HG12	9:Av:125:GLU:HB3	2.02	0.42
9:Aw:41:SER:HB2	10:A3:82:MET:HE3	2.00	0.42
9:Aw:86:ASN:HD22	10:A2:103:GLN:HA	1.83	0.42
9:Aw:152:ARG:HG3	6:WB:164:LEU:O	2.18	0.42
9:Ay:148:ALA:HA	6:WI:164:LEU:HD22	2.01	0.42
11:A8:103:ASP:OD1	12:BD:112:TYR:OH	2.36	0.42
6:UL:80:ALA:N	6:UL:85:ALA:O	2.49	0.42
6:UM:125:GLN:C	6:UM:128:GLU:H	2.27	0.42
6:UP:94:HIS:HB2	6:UP:146:THR:HG21	1.97	0.42
6:WA:126:PHE:HD2	6:WW:128:GLU:HG2	1.84	0.42
6:WA:140:LEU:O	6:WA:144:ILE:HG13	2.19	0.42
6:WC:191:ILE:O	6:WC:195:VAL:HG23	2.20	0.42
6:WD:190:GLN:HA	6:WE:217:GLY:O	2.19	0.42
6:WE:113:PHE:CE2	6:WE:139:GLU:HG3	2.54	0.42
6:WG:140:LEU:O	6:WG:144:ILE:HG13	2.20	0.42
6:WG:145:GLU:O	6:WG:146:THR:C	2.63	0.42
6:WG:166:VAL:CG1	6:WG:168:GLU:HB3	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WJ:140:LEU:O	6:WJ:144:ILE:HG13	2.19	0.42
6:WK:149:PRO:HD2	6:WK:190:GLN:HE22	1.84	0.42
6:WL:214:ASP:OD1	6:WL:218:HIS:N	2.49	0.42
6:WP:140:LEU:O	6:WP:144:ILE:HG13	2.20	0.42
6:WT:142:ARG:O	6:WT:146:THR:HG23	2.20	0.42
6:WV:114:GLU:O	6:WV:118:GLN:HG3	2.20	0.42
6:WV:187:ASP:O	6:WV:190:GLN:HB2	2.20	0.42
6:BX:296:ARG:HG2	6:BX:296:ARG:NH1	2.35	0.42
6:BX:421:GLY:O	6:BX:426:ARG:NH2	2.51	0.42
2:a:350:GLN:CD	2:c:142:LEU:HD23	2.43	0.42
2:b:188:GLN:CB	2:c:101:GLN:NE2	2.83	0.42
2:o:318:SER:HB2	2:p:342:PRO:HD3	2.00	0.42
3:0:193:ILE:HD12	5:AD:152:PRO:CD	2.50	0.42
3:1:1:MET:HE3	3:1:1:MET:HB3	1.80	0.42
3:7:145:ASN:HB2	3:ZC:209:ASN:O	2.19	0.42
3:8:55:GLN:HG3	3:AG:169:GLN:HE22	1.85	0.42
3:8:98:LYS:NZ	3:ZE:187:ILE:O	2.51	0.42
4:ZI:24:ILE:HG22	4:ZN:385:ASN:OD1	2.18	0.42
4:ZL:22:ASN:OD1	4:ZL:26:ASN:ND2	2.53	0.42
4:ZM:381:ASN:O	4:ZM:385:ASN:ND2	2.53	0.42
4:ZR:38:SER:O	4:ZR:55:ALA:N	2.51	0.42
4:ZU:380:ARG:HH21	4:ZU:383:GLN:NE2	2.18	0.42
4:ZV:24:ILE:O	4:ZV:27:SER:OG	2.28	0.42
4:ZV:212:THR:HG21	4:ZV:246:ILE:HD11	2.01	0.42
4:ZV:401:ASN:O	4:ZV:402:LEU:C	2.62	0.42
4:ZW:331:ASP:O	4:ZW:333:VAL:HG23	2.20	0.42
4:ZY:60:ASP:OD2	4:ZY:365:ASN:ND2	2.53	0.42
4:ZY:298:GLY:HA3	4:ZY:315:ILE:HG22	2.01	0.42
5:AA:29:ALA:O	5:AA:209:SER:OG	2.37	0.42
5:AA:249:SER:CB	12:BA:117:GLU:HB3	2.50	0.42
5:AB:146:LEU:HB2	5:AB:155:VAL:HG22	2.01	0.42
5:AD:80:VAL:O	5:AD:103:GLY:HA3	2.19	0.42
3:AI:62:LEU:HG	12:BE:84:LEU:HD23	2.01	0.42
3:AL:5:LEU:HD23	3:AL:5:LEU:HA	1.87	0.42
3:AL:19:MET:HE1	3:AL:233:MET:HG2	2.02	0.42
6:AT:296:ARG:HG2	6:AT:296:ARG:NH1	2.35	0.42
6:Ak:404:LEU:HD22	6:Ak:409:MET:HE3	2.02	0.42
6:AQ:404:LEU:HD22	6:AQ:409:MET:HE3	2.02	0.42
9:Au:60:MET:CE	9:Av:91:GLY:HA3	2.47	0.42
9:Au:162:PRO:CD	9:Au:163:GLU:N	2.82	0.42
9:Ay:92:LEU:HD12	9:Ay:92:LEU:HA	1.78	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WI:165:PHE:O	6:WI:165:PHE:CG	2.73	0.42
12:BF:16:ALA:HB1	12:BF:49:PHE:CE1	2.55	0.42
6:BL:316:LEU:HD12	6:BL:316:LEU:HA	1.77	0.42
6:BR:296:ARG:HG2	6:BR:296:ARG:NH1	2.35	0.42
1:X:66:PHE:CE1	2:w:41:LEU:HD12	2.55	0.42
2:d:39:TYR:CE2	2:d:61:THR:HG21	2.54	0.42
2:e:188:GLN:CB	2:f:101:GLN:NE2	2.83	0.42
2:k:33:GLU:O	2:l:170:ILE:HD13	2.19	0.42
2:q:39:TYR:CE2	2:q:61:THR:HG21	2.54	0.42
3:4:1:MET:HE2	3:4:254:LEU:HD22	2.02	0.42
3:6:76:ALA:HB1	3:ZB:64:SER:O	2.20	0.42
3:6:142:ILE:HD13	3:6:149:ILE:HD13	2.01	0.42
3:8:44:LEU:HD23	3:8:44:LEU:HA	1.82	0.42
3:ZC:184:LEU:HB3	3:ZC:192:TYR:HB3	2.00	0.42
4:ZG:93:PHE:HB3	4:ZG:333:VAL:HG13	2.01	0.42
4:ZI:63:ASP:OD2	4:ZI:96:ARG:NH2	2.52	0.42
4:ZK:138:THR:HG22	4:ZK:140:PRO:HD3	2.00	0.42
4:ZN:269:GLN:HB3	4:ZT:286:PRO:HG2	2.02	0.42
4:ZO:380:ARG:HA	4:ZO:380:ARG:HD3	1.81	0.42
4:ZP:71:ARG:O	4:ZP:359:GLY:HA2	2.19	0.42
4:ZQ:337:THR:HG22	4:ZQ:339:ALA:H	1.84	0.42
4:ZS:396:LEU:HD23	4:ZS:396:LEU:HA	1.88	0.42
4:ZT:34:SER:HB3	4:ZT:366:VAL:HG22	2.01	0.42
4:ZT:331:ASP:HA	4:ZY:40:ALA:HB1	2.01	0.42
4:ZW:69:THR:HG21	4:ZW:361:LEU:HD12	2.02	0.42
4:Za:83:PHE:HB2	4:Za:95:SER:O	2.19	0.42
4:Ze:150:THR:OG1	4:Ze:282:ASN:ND2	2.51	0.42
4:Zg:103:ASP:HB3	4:Zg:109:VAL:HG21	2.01	0.42
5:AA:47:ASP:O	6:BI:324:ASN:HB2	2.19	0.42
5:AB:223:ASN:CB	3:AG:253:MET:HE1	2.49	0.42
5:AC:70:GLN:NE2	3:AN:1:MET:N	2.67	0.42
3:AG:43:ASP:OD1	3:AG:43:ASP:N	2.53	0.42
3:AH:185:GLU:HB3	3:AH:193:ILE:HG22	2.02	0.42
6:AY:421:GLY:O	6:AY:426:ARG:NH2	2.51	0.42
6:Ai:404:LEU:HD22	6:Ai:409:MET:HE3	2.02	0.42
6:An:404:LEU:HD22	6:An:409:MET:HE3	2.02	0.42
6:Ap:404:LEU:HD22	6:Ap:409:MET:HE3	2.02	0.42
8:At:144:LEU:HB2	6:WJ:164:LEU:HD23	1.98	0.42
9:Au:171:LEU:HB3	9:Au:172:PRO:HD3	2.01	0.42
9:Ay:66:ARG:HA	9:Ay:182:ALA:HB2	2.02	0.42
10:A4:69:ASN:OD1	10:A4:69:ASN:N	2.52	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WA:115:LEU:HD22	6:WA:134:ARG:HD2	2.01	0.42
6:WC:120:LYS:HE2	6:WC:120:LYS:HA	2.01	0.42
6:WD:113:PHE:HB3	6:WE:134:ARG:NH1	2.34	0.42
6:WI:140:LEU:O	6:WI:144:ILE:HG13	2.20	0.42
6:WL:135:ALA:O	6:WL:136:LEU:C	2.63	0.42
6:WR:192:SER:O	6:WR:195:VAL:N	2.53	0.42
6:WS:147:LEU:O	6:WS:148:GLY:C	2.63	0.42
6:WT:196:HIS:HB3	6:WU:211:THR:CG2	2.30	0.42
6:WU:140:LEU:O	6:WU:144:ILE:HG13	2.20	0.42
12:BF:34:VAL:HG13	12:BF:35:THR:HG22	2.02	0.42
6:BU:290:LYS:HE3	6:BU:290:LYS:HB2	1.93	0.42
6:BU:296:ARG:HG2	6:BU:296:ARG:NH1	2.35	0.42
1:B:166:GLU:OE2	1:B:168:GLN:NE2	2.37	0.42
1:K:59:ASN:ND2	2:i:130:ASP:HB2	2.33	0.42
1:N:59:ASN:ND2	2:l:130:ASP:HB2	2.33	0.42
1:O:66:PHE:CE1	2:n:41:LEU:HD12	2.55	0.42
1:W:66:PHE:CE1	2:v:41:LEU:HD12	2.55	0.42
1:Y:66:PHE:CE1	2:x:41:LEU:HD12	2.55	0.42
2:b:39:TYR:CE2	2:b:61:THR:HG21	2.54	0.42
2:c:39:TYR:CE2	2:c:61:THR:HG21	2.54	0.42
2:p:108:SER:HB2	2:q:43:VAL:HG23	2.01	0.42
2:t:39:TYR:CE2	2:t:61:THR:HG21	2.54	0.42
2:v:318:SER:HB2	2:w:342:PRO:HD3	2.00	0.42
2:w:255:ILE:HG23	2:w:346:MET:HG2	2.02	0.42
3:0:193:ILE:HD12	5:AD:152:PRO:HD3	2.01	0.42
3:5:10:THR:OG1	3:5:71:GLY:HA3	2.20	0.42
3:5:175:LEU:HG	3:5:206:PRO:HG3	2.02	0.42
3:ZA:231:VAL:HG11	4:ZG:7:VAL:HG22	2.02	0.42
3:ZE:208:LEU:HB3	3:ZE:209:ASN:H	1.61	0.42
4:ZK:14:ALA:HB2	4:ZK:382:TYR:HE2	1.85	0.42
4:ZQ:10:LEU:HD23	4:ZQ:10:LEU:HA	1.78	0.42
4:ZT:71:ARG:O	4:ZT:359:GLY:HA2	2.20	0.42
4:Za:284:TYR:HB3	4:Za:308:GLN:HE22	1.85	0.42
4:Zb:233:ASN:OD1	4:Zb:237:ILE:N	2.51	0.42
4:Zd:210:VAL:HG11	4:Zd:263:PHE:CZ	2.55	0.42
4:Zd:397:ASN:C	4:Zd:399:LEU:H	2.28	0.42
4:Zf:94:TYR:CG	4:Zf:320:PHE:HZ	2.37	0.42
5:AB:59:ALA:O	3:AG:66:LEU:HD22	2.20	0.42
5:AC:82:LEU:HD11	5:AC:163:LEU:HD22	2.02	0.42
5:AD:1:MET:HG2	5:AD:241:GLU:CG	2.49	0.42
5:AE:135:ILE:HG23	5:AE:143:ILE:HG23	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:228:GLU:HG3	3:AN:9:LYS:HE3	2.02	0.42
6:AR:290:LYS:HE3	6:AR:290:LYS:HB2	1.93	0.42
6:AS:296:ARG:HG2	6:AS:296:ARG:NH1	2.35	0.42
6:AV:355:PRO:HB3	6:BO:319:GLN:CD	2.44	0.42
6:AY:294:ARG:HD3	11:A9:68:THR:HG22	2.01	0.42
6:Aa:296:ARG:HG2	6:Aa:296:ARG:NH1	2.35	0.42
6:Af:296:ARG:HG2	6:Af:296:ARG:NH1	2.35	0.42
6:AO:404:LEU:HD22	6:AO:409:MET:HE3	2.02	0.42
6:AP:404:LEU:HD22	6:AP:409:MET:HE3	2.02	0.42
9:Ay:189:ILE:O	9:Ay:192:PRO:HD2	2.19	0.42
6:UI:102:GLN:CG	6:UI:193:ALA:HB2	2.49	0.42
6:UM:102:GLN:CG	6:UM:193:ALA:HB2	2.49	0.42
6:UM:207:PRO:HD2	6:WP:187:ASP:HB3	2.02	0.42
12:BB:10:ALA:HB3	12:BB:119:LEU:HD13	2.02	0.42
6:WD:140:LEU:O	6:WD:144:ILE:HG13	2.19	0.42
6:WJ:172:PRO:HD2	6:WJ:204:GLY:O	2.19	0.42
6:WQ:196:HIS:HB3	6:WR:211:THR:HG21	2.02	0.42
6:WV:140:LEU:O	6:WV:144:ILE:HG13	2.20	0.42
6:WW:140:LEU:O	6:WW:144:ILE:HG13	2.20	0.42
6:BR:404:LEU:HD22	6:BR:409:MET:HE3	2.02	0.42
1:F:66:PHE:CE1	2:e:41:LEU:HD12	2.55	0.42
1:G:66:PHE:CE1	2:f:41:LEU:HD12	2.55	0.42
1:P:66:PHE:CE1	2:o:41:LEU:HD12	2.55	0.42
1:R:84:GLU:OE1	1:S:167:LYS:NZ	2.42	0.42
1:U:66:PHE:CE1	2:t:41:LEU:HD12	2.55	0.42
2:a:101:GLN:NE2	2:z:188:GLN:CB	2.83	0.42
2:b:108:SER:HB2	2:c:43:VAL:HG23	2.01	0.42
2:d:188:GLN:CB	2:e:101:GLN:NE2	2.83	0.42
2:g:39:TYR:CE2	2:g:61:THR:HG21	2.55	0.42
2:i:39:TYR:CE2	2:i:61:THR:HG21	2.54	0.42
2:j:188:GLN:CB	2:k:101:GLN:NE2	2.83	0.42
2:l:33:GLU:O	2:m:170:ILE:HD13	2.19	0.42
2:p:39:TYR:CE2	2:p:61:THR:HG21	2.54	0.42
2:p:188:GLN:CB	2:q:101:GLN:NE2	2.83	0.42
2:u:39:TYR:CE2	2:u:61:THR:HG21	2.54	0.42
2:u:255:ILE:HG23	2:u:346:MET:HG2	2.02	0.42
2:v:255:ILE:HG23	2:v:346:MET:HG2	2.02	0.42
2:x:255:ILE:HG23	2:x:346:MET:HG2	2.02	0.42
3:3:230:LEU:HD13	3:ZE:257:LEU:HB3	2.01	0.42
3:7:45:LEU:HG	3:AK:86:LEU:HD11	2.02	0.42
3:9:116:ARG:HG3	3:9:116:ARG:O	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ZB:240:TYR:HH	4:ZG:399:LEU:HD11	1.78	0.42
4:ZG:144:MET:HE2	4:ZG:310:GLN:HE21	1.85	0.42
4:ZH:373:VAL:HG11	4:ZN:7:VAL:HG22	2.02	0.42
4:ZI:42:MET:O	4:ZI:50:LEU:HB2	2.20	0.42
4:ZR:380:ARG:HD3	4:ZR:380:ARG:HA	1.75	0.42
4:ZS:17:LEU:CD1	4:ZX:395:ILE:HD11	2.50	0.42
4:ZS:232:PHE:HB3	4:ZS:236:GLY:HA2	2.01	0.42
4:ZS:380:ARG:NH2	4:ZY:397:ASN:OD1	2.53	0.42
4:ZY:126:PRO:HG2	4:ZY:310:GLN:NE2	2.35	0.42
4:ZY:269:GLN:OE1	4:Ze:286:PRO:HB3	2.20	0.42
4:Zg:367:ASP:O	4:Zg:371:GLU:HG2	2.20	0.42
4:Zg:396:LEU:HD23	4:Zg:396:LEU:HA	1.78	0.42
5:AA:37:GLN:OE1	3:AF:67:GLN:O	2.37	0.42
3:AJ:188:GLY:O	3:AJ:190:ASN:N	2.45	0.42
3:AM:88:GLN:HB2	3:AM:218:TYR:CE1	2.55	0.42
6:AU:404:LEU:HD22	6:AU:409:MET:HE3	2.02	0.42
7:Ab:15:LYS:HD3	6:WQ:121:PHE:HZ	1.85	0.42
6:Ag:404:LEU:HD22	6:Ag:409:MET:HE3	2.02	0.42
6:Ah:404:LEU:HD22	6:Ah:409:MET:HE3	2.02	0.42
6:Ak:429:THR:OG1	6:Al:418:GLU:OE2	2.36	0.42
6:Am:296:ARG:HG2	6:Am:296:ARG:NH1	2.35	0.42
8:At:175:ALA:HA	8:At:178:LEU:HD23	2.02	0.42
6:UO:102:GLN:CG	6:UO:193:ALA:HB2	2.49	0.42
6:WE:164:LEU:HD13	6:WE:165:PHE:N	2.35	0.42
6:WH:200:SER:OG	6:WI:175:SER:CB	2.54	0.42
6:WI:129:GLN:HE22	6:WI:132:TYR:HD2	1.68	0.42
6:WO:140:LEU:O	6:WO:144:ILE:HG13	2.20	0.42
6:WO:214:ASP:OD1	6:WO:218:HIS:N	2.49	0.42
12:BF:123:LYS:HE2	12:BF:123:LYS:HA	2.02	0.42
6:BQ:312:VAL:HG12	6:BQ:315:ALA:HB2	2.01	0.42
6:BV:296:ARG:HG2	6:BV:296:ARG:NH1	2.35	0.42
1:B:211:GLY:O	1:B:215:GLU:HG3	2.20	0.41
1:E:66:PHE:CE1	2:d:41:LEU:HD12	2.55	0.41
1:M:211:GLY:O	1:M:215:GLU:HG3	2.20	0.41
1:N:66:PHE:CE1	2:m:41:LEU:HD12	2.55	0.41
1:O:211:GLY:O	1:O:215:GLU:HG3	2.20	0.41
1:Q:66:PHE:CE1	2:p:41:LEU:HD12	2.55	0.41
1:R:66:PHE:CE1	2:q:41:LEU:HD12	2.55	0.41
1:V:211:GLY:O	1:V:215:GLU:HG3	2.20	0.41
1:Y:59:ASN:ND2	2:w:130:ASP:HB2	2.33	0.41
1:Z:66:PHE:CE1	2:y:41:LEU:HD12	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:39:TYR:CE2	2:a:61:THR:HG21	2.54	0.41
2:e:51:GLN:O	2:e:52:THR:OG1	2.36	0.41
2:f:39:TYR:CE2	2:f:61:THR:HG21	2.54	0.41
2:k:51:GLN:O	2:k:52:THR:OG1	2.36	0.41
2:k:188:GLN:CB	2:l:101:GLN:NE2	2.83	0.41
2:n:39:TYR:CE2	2:n:61:THR:HG21	2.54	0.41
2:o:108:SER:HB2	2:p:43:VAL:HG23	2.01	0.41
2:p:159:GLN:HE21	2:p:159:GLN:HB2	1.66	0.41
2:s:188:GLN:CB	2:t:101:GLN:NE2	2.83	0.41
2:y:255:ILE:HG23	2:y:346:MET:HG2	2.02	0.41
2:z:255:ILE:HG23	2:z:346:MET:HG2	2.02	0.41
3:2:241:GLU:HG2	3:7:256:LYS:HG2	2.01	0.41
3:9:41:PHE:HA	3:9:74:PRO:HA	2.01	0.41
3:9:227:ALA:HB1	4:ZK:399:LEU:CD1	2.50	0.41
3:ZA:76:ALA:HA	4:ZF:47:LYS:HZ2	1.85	0.41
4:ZF:197:ASN:HD22	4:ZF:197:ASN:N	2.17	0.41
4:ZF:380:ARG:HD3	4:ZF:380:ARG:HA	1.69	0.41
4:ZG:267:MET:HE3	4:ZG:267:MET:HB3	1.89	0.41
4:ZH:280:ASN:OD1	4:ZH:281:GLN:N	2.53	0.41
4:ZH:352:ASN:O	4:ZH:352:ASN:CG	2.63	0.41
4:ZI:143:LEU:HD12	4:ZI:287:GLY:O	2.20	0.41
4:ZN:397:ASN:O	4:ZN:398:THR:C	2.60	0.41
4:ZO:148:SER:HB3	4:ZO:188:ASP:C	2.45	0.41
4:ZU:3:PHE:O	4:ZU:7:VAL:HG23	2.19	0.41
4:ZU:78:SER:HB3	4:ZU:79:GLN:OE1	2.19	0.41
4:ZU:151:THR:OG1	4:ZU:282:ASN:OD1	2.23	0.41
4:ZW:326:LEU:HD22	4:ZW:334:TRP:HB3	2.01	0.41
4:ZZ:112:GLN:HG2	4:ZZ:331:ASP:HB3	2.02	0.41
4:Za:83:PHE:O	4:Za:94:TYR:HA	2.19	0.41
4:Zg:33:LYS:NZ	4:Zg:362:GLU:OE2	2.52	0.41
4:Zg:75:VAL:HG21	4:Zg:294:ILE:HG21	2.02	0.41
5:AA:70:GLN:CD	3:AL:3:SER:CB	2.93	0.41
5:AC:68:PRO:CD	5:AC:84:GLN:HE21	2.32	0.41
3:AF:17:THR:HG23	3:AK:68:ILE:HD11	2.02	0.41
3:AK:113:ALA:HB1	3:AK:191:LEU:HB3	2.02	0.41
3:AK:223:ASN:OD1	3:AK:223:ASN:O	2.38	0.41
3:AL:193:ILE:HG22	3:AL:194:GLU:O	2.20	0.41
6:AW:404:LEU:HD22	6:AW:409:MET:HE3	2.02	0.41
6:AY:429:THR:OG1	6:AZ:418:GLU:OE2	2.36	0.41
6:Ao:404:LEU:HD22	6:Ao:409:MET:HE3	2.02	0.41
9:Av:152:ARG:NH2	6:WU:164:LEU:HA	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ax:101:MET:HE3	9:Ax:101:MET:HB3	1.76	0.41
10:A1:82:MET:HE3	11:A6:133:VAL:HG22	2.02	0.41
10:A4:84:MET:SD	11:A0:134:LEU:HD21	2.59	0.41
10:A5:11:ILE:HG22	6:BR:372:ILE:HB	2.02	0.41
11:A9:39:GLN:HA	11:A9:99:THR:HB	2.01	0.41
6:UO:214:ASP:OD2	6:UO:218:HIS:HB2	2.20	0.41
6:WK:140:LEU:O	6:WK:144:ILE:HG13	2.20	0.41
1:H:66:PHE:CE1	2:g:41:LEU:HD12	2.55	0.41
1:M:66:PHE:CE1	2:l:41:LEU:HD12	2.55	0.41
1:T:211:GLY:O	1:T:215:GLU:HG3	2.20	0.41
1:V:110:PRO:HD3	1:W:124:MET:HB3	2.00	0.41
1:X:211:GLY:O	1:X:215:GLU:HG3	2.20	0.41
1:Z:211:GLY:O	1:Z:215:GLU:HG3	2.21	0.41
2:j:39:TYR:CE2	2:j:61:THR:HG21	2.54	0.41
2:r:39:TYR:CE2	2:r:61:THR:HG21	2.55	0.41
2:s:255:ILE:HG23	2:s:346:MET:HG2	2.02	0.41
2:t:255:ILE:HG23	2:t:346:MET:HG2	2.02	0.41
3:l:3:SER:C	3:l:5:LEU:H	2.28	0.41
3:l:241:GLU:HG3	3:6:256:LYS:HE3	2.01	0.41
3:5:185:GLU:HB3	3:5:193:ILE:HG12	2.02	0.41
3:7:194:GLU:OE2	3:7:201:PRO:HD3	2.20	0.41
3:8:28:ASN:ND2	3:ZD:43:ASP:OD1	2.54	0.41
3:ZC:56:SER:O	3:AK:153:ARG:N	2.51	0.41
3:ZD:89:THR:OG1	3:ZD:94:ASP:OD2	2.37	0.41
3:ZD:95:VAL:O	3:ZD:118:GLY:HA3	2.20	0.41
3:ZD:189:GLU:OE1	4:ZI:53:LYS:NZ	2.52	0.41
4:ZF:85:LEU:HD13	4:ZF:114:MET:HB2	2.02	0.41
4:ZF:106:ARG:HB3	4:ZF:139:ILE:O	2.19	0.41
4:ZM:281:GLN:NE2	4:ZM:283:GLY:O	2.47	0.41
4:ZQ:112:GLN:HE21	4:ZQ:331:ASP:HB3	1.82	0.41
4:ZS:233:ASN:HD21	4:ZS:237:ILE:HB	1.84	0.41
4:ZS:314:GLN:NE2	4:ZS:347:THR:OG1	2.47	0.41
4:ZU:102:LEU:HD21	4:ZU:106:ARG:HA	2.02	0.41
4:ZV:181:LYS:HD3	4:Zg:129:GLN:HE21	1.83	0.41
4:ZW:285:LYS:HB2	4:ZW:285:LYS:HE3	1.91	0.41
4:ZY:375:MET:SD	4:Zd:388:THR:HA	2.60	0.41
4:Zc:71:ARG:O	4:Zc:359:GLY:HA2	2.20	0.41
4:Zd:16:ASN:HB2	4:Zd:39:PHE:HZ	1.85	0.41
4:Ze:30:TYR:HD1	4:Ze:363:ALA:HA	1.85	0.41
4:Zg:5:GLN:H	4:Zg:5:GLN:HG3	1.59	0.41
5:AB:28:ASN:OD1	3:AG:72:VAL:HG23	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AB:60:SER:HA	3:AG:65:GLY:O	2.19	0.41
3:AH:98:LYS:HD3	3:AH:213:LEU:HB2	2.01	0.41
3:AI:95:VAL:O	3:AI:118:GLY:HA3	2.19	0.41
3:AJ:178:PHE:CE1	3:AJ:201:PRO:HB3	2.55	0.41
6:AU:296:ARG:HG2	6:AU:296:ARG:NH1	2.35	0.41
6:AZ:421:GLY:O	6:AZ:426:ARG:NH2	2.51	0.41
6:Ag:296:ARG:HG2	6:Ag:296:ARG:NH1	2.35	0.41
6:Ah:296:ARG:HG2	6:Ah:296:ARG:NH1	2.35	0.41
6:Ai:303:GLN:HE22	6:BK:319:GLN:CG	2.32	0.41
9:Au:160:GLN:O	6:WP:165:PHE:CA	2.68	0.41
9:Ax:190:PHE:CG	9:Ay:220:PRO:HG3	2.55	0.41
10:A5:75:MET:HE2	10:A5:75:MET:HB2	1.81	0.41
11:A7:29:ASN:ND2	11:A7:40:ALA:HA	2.35	0.41
6:WC:140:LEU:O	6:WC:144:ILE:HG13	2.20	0.41
6:BS:404:LEU:HD22	6:BS:409:MET:HE3	2.02	0.41
6:BT:296:ARG:HG2	6:BT:296:ARG:NH1	2.35	0.41
1:A:40:ILE:HD13	1:A:40:ILE:HA	1.87	0.41
1:D:40:ILE:HD13	1:D:40:ILE:HA	1.88	0.41
1:D:211:GLY:O	1:D:215:GLU:HG3	2.21	0.41
1:F:211:GLY:O	1:F:215:GLU:HG3	2.20	0.41
1:K:211:GLY:O	1:K:215:GLU:HG3	2.20	0.41
1:Q:211:GLY:O	1:Q:215:GLU:HG3	2.21	0.41
1:S:66:PHE:CE1	2:r:41:LEU:HD12	2.55	0.41
1:V:66:PHE:CE1	2:u:41:LEU:HD12	2.55	0.41
2:b:33:GLU:O	2:c:170:ILE:HD13	2.19	0.41
2:b:255:ILE:HG23	2:b:346:MET:HG2	2.02	0.41
2:k:39:TYR:CE2	2:k:61:THR:HG21	2.54	0.41
2:l:39:TYR:CE2	2:l:61:THR:HG21	2.54	0.41
2:s:39:TYR:CE2	2:s:61:THR:HG21	2.54	0.41
2:u:188:GLN:CB	2:v:101:GLN:NE2	2.83	0.41
2:w:39:TYR:CE2	2:w:61:THR:HG21	2.54	0.41
3:0:76:ALA:HB1	3:5:64:SER:O	2.21	0.41
3:4:28:ASN:ND2	3:9:43:ASP:HB2	2.36	0.41
3:4:54:ALA:CB	5:AC:136:THR:HG21	2.51	0.41
3:6:225:ASN:O	3:6:229:GLU:HG2	2.20	0.41
3:ZA:137:GLN:HA	3:ZA:139:ALA:N	2.31	0.41
3:ZC:42:GLU:OE2	3:ZC:73:ARG:NH2	2.47	0.41
3:ZE:85:ASN:CG	4:ZP:50:LEU:HD22	2.46	0.41
4:ZI:196:MET:HE3	4:ZI:196:MET:HB3	1.98	0.41
4:ZK:18:ASP:HB3	4:ZP:5:GLN:HE22	1.85	0.41
4:ZO:160:SER:HA	4:ZO:268:GLN:HE21	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZO:396:LEU:HD23	4:ZO:396:LEU:HA	1.82	0.41
4:ZQ:125:PRO:HA	4:ZQ:126:PRO:HD3	1.92	0.41
4:ZR:396:LEU:HD23	4:ZR:396:LEU:HA	1.76	0.41
4:ZS:158:LEU:HD13	4:ZS:208:TRP:CD2	2.55	0.41
4:ZV:103:ASP:OD1	4:ZV:107:ASN:N	2.41	0.41
4:ZW:83:PHE:HB2	4:ZW:95:SER:O	2.19	0.41
4:ZW:104:GLU:OE2	4:ZW:104:GLU:N	2.35	0.41
4:Zd:183:THR:HG23	4:Zd:195:ASP:OD2	2.21	0.41
4:Zh:396:LEU:HA	4:Zh:396:LEU:HD23	1.83	0.41
5:AA:202:MET:CE	3:AL:73:ARG:HH21	2.01	0.41
5:AB:49:LEU:HA	5:AB:50:SER:HA	1.64	0.41
5:AD:2:ASP:OD2	5:AD:3:HIS:N	2.54	0.41
5:AE:35:ARG:NH1	5:AE:101:ARG:HG3	2.35	0.41
3:AG:233:MET:HE1	3:AL:245:LYS:HG3	2.02	0.41
3:AH:238:ARG:NH2	3:AN:255:GLN:HB2	2.35	0.41
3:AI:98:LYS:HD3	3:AI:213:LEU:HD12	2.03	0.41
3:AI:154:ASP:O	3:AI:154:ASP:OD2	2.39	0.41
6:AX:404:LEU:HD22	6:AX:409:MET:HE3	2.02	0.41
6:AY:296:ARG:HG2	6:AY:296:ARG:NH1	2.35	0.41
6:AZ:404:LEU:HD22	6:AZ:409:MET:HE3	2.02	0.41
7:Ab:4:GLU:HB3	6:WS:125:GLN:N	2.34	0.41
6:Ag:290:LYS:HE3	6:Ag:290:LYS:HB2	1.93	0.41
6:Ai:296:ARG:HG2	6:Ai:296:ARG:NH1	2.35	0.41
6:An:296:ARG:HG2	6:An:296:ARG:NH1	2.35	0.41
7:Ar:33:LEU:HD12	7:Ar:33:LEU:HA	1.94	0.41
9:Ay:85:PRO:O	9:Ay:86:ASN:C	2.61	0.41
9:Ay:225:LEU:HD12	9:Ay:229:VAL:HG22	2.01	0.41
10:A2:80:VAL:HG22	11:A8:131:MET:HG2	2.01	0.41
10:A5:7:ILE:HG22	6:BR:278:THR:CG2	2.42	0.41
6:WB:114:GLU:O	6:WB:117:ASP:N	2.54	0.41
6:WB:140:LEU:O	6:WB:144:ILE:HG13	2.20	0.41
6:WH:190:GLN:HG3	6:WI:217:GLY:HA3	2.02	0.41
6:WI:162:PRO:HG2	6:WJ:165:PHE:HZ	1.86	0.41
6:WV:120:LYS:NZ	6:WV:123:ILE:CD1	2.74	0.41
6:WV:128:GLU:CG	6:WW:126:PHE:CE2	3.03	0.41
6:BS:296:ARG:HG2	6:BS:296:ARG:NH1	2.35	0.41
6:BT:404:LEU:HD22	6:BT:409:MET:HE3	2.02	0.41
6:BW:421:GLY:O	6:BW:426:ARG:NH2	2.51	0.41
1:D:66:PHE:CE1	2:c:41:LEU:HD12	2.55	0.41
1:H:110:PRO:HD3	1:I:124:MET:HB3	2.00	0.41
1:H:211:GLY:O	1:H:215:GLU:HG3	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:255:ILE:HG23	2:a:346:MET:HG2	2.02	0.41
2:c:255:ILE:HG23	2:c:346:MET:HG2	2.02	0.41
2:d:255:ILE:HG23	2:d:346:MET:HG2	2.02	0.41
2:e:39:TYR:CE2	2:e:61:THR:HG21	2.54	0.41
2:e:255:ILE:HG23	2:e:346:MET:HG2	2.02	0.41
2:f:255:ILE:HG23	2:f:346:MET:HG2	2.02	0.41
2:h:39:TYR:CE2	2:h:61:THR:HG21	2.54	0.41
2:h:273:CYS:HB3	2:i:265:ASN:HA	2.03	0.41
2:q:188:GLN:CB	2:r:101:GLN:NE2	2.83	0.41
2:w:188:GLN:CB	2:x:101:GLN:NE2	2.83	0.41
2:y:39:TYR:CE2	2:y:61:THR:HG21	2.54	0.41
3:2:241:GLU:OE1	3:8:258:THR:HG21	2.20	0.41
3:4:258:THR:HG21	3:AM:241:GLU:OE1	2.21	0.41
3:8:45:LEU:HD21	3:AL:98:LYS:CG	2.48	0.41
3:8:100:GLN:HG3	3:8:210:GLY:O	2.20	0.41
3:ZA:3:SER:HA	3:AN:85:ASN:ND2	2.36	0.41
3:ZA:218:TYR:OH	4:ZL:53:LYS:HB2	2.20	0.41
3:ZB:28:ASN:ND2	4:ZG:52:VAL:CG2	2.83	0.41
3:ZD:238:ARG:NH1	4:ZJ:397:ASN:ND2	2.67	0.41
4:ZF:154:MET:HE3	4:ZF:184:VAL:HB	2.03	0.41
4:ZF:198:VAL:HG22	4:ZF:212:THR:HG22	2.02	0.41
4:ZH:306:ASN:C	4:ZH:307:GLU:HG2	2.45	0.41
4:ZI:204:LYS:O	4:ZI:207:GLU:N	2.53	0.41
4:ZL:367:ASP:HB3	4:ZL:370:LYS:CG	2.47	0.41
4:ZN:373:VAL:HG11	4:ZT:7:VAL:HG22	2.02	0.41
4:ZO:71:ARG:HH11	4:ZO:71:ARG:HB3	1.84	0.41
4:ZO:235:ASN:O	4:ZO:237:ILE:N	2.51	0.41
4:ZS:146:ALA:HB2	4:ZS:286:PRO:HD3	2.02	0.41
4:ZT:297:ASP:OD2	4:ZT:297:ASP:N	2.53	0.41
4:ZW:330:GLY:N	4:Zb:43:PHE:HB2	2.35	0.41
4:ZX:290:VAL:HG12	4:ZX:303:ASN:O	2.20	0.41
4:ZY:399:LEU:HA	4:ZY:399:LEU:HD23	1.84	0.41
4:Za:34:SER:HB3	4:Za:366:VAL:HG22	2.01	0.41
4:Zd:399:LEU:HD23	4:Zd:399:LEU:HA	1.85	0.41
4:Zf:78:SER:OG	4:Zf:355:LYS:O	2.29	0.41
4:Zg:385:ASN:O	4:Zg:386:ALA:C	2.63	0.41
4:Zh:380:ARG:HD3	4:Zh:380:ARG:HA	1.76	0.41
5:AB:227:PHE:O	5:AB:228:GLU:C	2.62	0.41
5:AC:24:SER:CA	3:AH:7:ILE:HG21	2.50	0.41
3:AN:178:PHE:CE1	3:AN:201:PRO:HB3	2.56	0.41
6:Af:404:LEU:HD22	6:Af:409:MET:HE3	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Al:296:ARG:HG2	6:Al:296:ARG:NH1	2.35	0.41
6:Ao:296:ARG:HG2	6:Ao:296:ARG:NH1	2.35	0.41
6:AP:421:GLY:O	6:AP:426:ARG:NH2	2.51	0.41
7:Ar:1:MET:HE2	7:Ar:1:MET:HB3	1.91	0.41
8:At:176:GLY:HA2	8:At:179:ILE:CD1	2.49	0.41
8:At:242:HIS:CG	6:WJ:125:GLN:HG3	2.54	0.41
9:Au:159:LEU:O	6:WP:164:LEU:O	2.38	0.41
9:Ay:217:ILE:O	9:Ay:220:PRO:HD2	2.20	0.41
6:UP:214:ASP:OD2	6:UP:218:HIS:HB2	2.20	0.41
6:WA:196:HIS:CD2	6:WB:219:LEU:HD13	2.56	0.41
6:WB:196:HIS:HB3	6:WC:211:THR:HG21	2.01	0.41
6:WK:190:GLN:HA	6:WL:217:GLY:O	2.20	0.41
6:WR:197:LEU:HA	6:WS:175:SER:CB	2.50	0.41
6:WS:214:ASP:OD1	6:WS:218:HIS:N	2.49	0.41
6:WT:147:LEU:O	6:WT:148:GLY:C	2.64	0.41
1:I:66:PHE:CE1	2:h:41:LEU:HD12	2.55	0.41
1:I:211:GLY:O	1:I:215:GLU:HG3	2.20	0.41
1:R:211:GLY:O	1:R:215:GLU:HG3	2.20	0.41
1:S:211:GLY:O	1:S:215:GLU:HG3	2.20	0.41
2:b:273:CYS:HB3	2:c:265:ASN:HA	2.03	0.41
2:f:159:GLN:HE21	2:f:159:GLN:HB2	1.66	0.41
2:i:273:CYS:HB3	2:j:265:ASN:HA	2.03	0.41
2:m:39:TYR:CE2	2:m:61:THR:HG21	2.54	0.41
2:n:82:LYS:HE2	3:AI:209:ASN:HD21	1.85	0.41
2:o:273:CYS:HB3	2:p:265:ASN:HA	2.03	0.41
2:r:195:THR:HG21	2:s:241:ASN:ND2	2.35	0.41
2:t:273:CYS:HB3	2:u:265:ASN:HA	2.03	0.41
2:u:273:CYS:HB3	2:v:265:ASN:HA	2.03	0.41
2:x:39:TYR:CE2	2:x:61:THR:HG21	2.55	0.41
3:0:138:PRO:O	3:0:140:ILE:HG13	2.19	0.41
3:1:95:VAL:O	3:1:118:GLY:HA3	2.20	0.41
3:3:3:SER:HB3	3:AM:20:ASP:OD1	2.20	0.41
3:3:47:GLN:N	3:3:68:ILE:O	2.53	0.41
3:5:102:PHE:HE2	3:5:181:ASP:OD1	2.03	0.41
3:ZE:140:ILE:HD13	3:ZE:157:VAL:HG21	2.03	0.41
4:ZF:319:ASN:OD1	4:ZF:320:PHE:N	2.54	0.41
4:ZH:78:SER:HG	4:ZH:355:LYS:H	1.62	0.41
4:ZH:128:ILE:HD13	4:ZH:314:GLN:OE1	2.21	0.41
4:ZI:323:ASN:H	4:ZI:323:ASN:HD22	1.69	0.41
4:ZJ:66:THR:OG1	4:ZU:42:MET:SD	2.77	0.41
4:ZL:16:ASN:HB2	4:ZL:39:PHE:HZ	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZO:167:LYS:HE2	4:ZO:174:ASP:OD2	2.21	0.41
4:ZP:170:PHE:HE2	4:ZP:223:PRO:HG2	1.85	0.41
4:ZT:367:ASP:HB3	4:ZT:370:LYS:HG3	2.03	0.41
4:ZW:184:VAL:HG13	4:ZW:196:MET:HB2	2.02	0.41
4:ZW:212:THR:HG21	4:ZW:246:ILE:HG21	2.03	0.41
4:ZX:188:ASP:OD1	4:ZX:188:ASP:N	2.40	0.41
4:ZY:116:LEU:HD11	4:ZY:315:ILE:HD11	2.02	0.41
4:ZY:380:ARG:HB3	4:Ze:396:LEU:HD23	2.02	0.41
4:Zd:144:MET:HE3	4:Zd:145:ALA:H	1.85	0.41
5:AA:26:LEU:HD23	5:AA:26:LEU:HA	1.86	0.41
5:AC:248:LEU:HD21	11:A8:106:ARG:HG2	2.02	0.41
3:AF:161:GLN:HA	3:AF:161:GLN:OE1	2.21	0.41
3:AH:193:ILE:HD12	3:AH:193:ILE:HA	1.92	0.41
3:AM:6:TRP:O	3:AM:10:THR:HG23	2.21	0.41
6:AS:294:ARG:CD	11:A0:68:THR:HG22	2.36	0.41
6:AV:355:PRO:CB	6:BO:319:GLN:CD	2.94	0.41
6:AY:404:LEU:HD22	6:AY:409:MET:HE3	2.02	0.41
6:Aj:296:ARG:HG2	6:Aj:296:ARG:NH1	2.35	0.41
6:Ap:296:ARG:HG2	6:Ap:296:ARG:NH1	2.35	0.41
9:Ay:83:ALA:O	9:Ay:85:PRO:N	2.54	0.41
10:A5:82:MET:HE2	10:A5:82:MET:HA	2.03	0.41
11:A8:16:LEU:HD11	11:A8:120:LEU:HG	2.02	0.41
6:UP:102:GLN:CG	6:UP:193:ALA:HB2	2.49	0.41
6:WA:181:GLU:CB	6:WA:184:ARG:CG	2.85	0.41
6:WB:166:VAL:HG21	6:WB:169:GLN:HA	2.01	0.41
6:WI:144:ILE:O	6:WI:147:LEU:HB2	2.20	0.41
6:WR:128:GLU:HB3	6:WS:126:PHE:CE2	2.55	0.41
6:WR:165:PHE:O	6:WR:167:ARG:N	2.53	0.41
6:WW:131:ASN:HA	6:WW:134:ARG:HD3	2.01	0.41
1:A:66:PHE:CE1	2:z:41:LEU:HD12	2.55	0.41
1:C:66:PHE:CE1	2:b:41:LEU:HD12	2.55	0.41
1:J:211:GLY:O	1:J:215:GLU:HG3	2.20	0.41
1:L:66:PHE:CE1	2:k:41:LEU:HD12	2.55	0.41
1:W:110:PRO:HD3	1:X:124:MET:HB3	2.00	0.41
2:n:273:CYS:HB3	2:o:265:ASN:HA	2.03	0.41
2:r:255:ILE:HG23	2:r:346:MET:HG2	2.02	0.41
2:t:78:ASN:CB	3:AH:168:VAL:CG1	2.95	0.41
2:v:39:TYR:CE2	2:v:61:THR:HG21	2.54	0.41
2:v:273:CYS:HB3	2:w:265:ASN:HA	2.03	0.41
2:x:188:GLN:CB	2:y:101:GLN:NE2	2.83	0.41
2:z:39:TYR:CE2	2:z:61:THR:HG21	2.54	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:143:PRO:HG2	3:3:159:VAL:HG21	2.01	0.41
3:ZB:164:GLN:C	3:ZB:166:ALA:N	2.78	0.41
3:ZB:256:LYS:HA	3:ZB:256:LYS:HD3	1.90	0.41
3:ZE:85:ASN:OD1	4:ZP:50:LEU:HD21	2.20	0.41
4:ZG:60:ASP:OD1	4:ZG:62:THR:HG23	2.21	0.41
4:ZM:59:GLN:NE2	4:ZM:334:TRP:HE1	2.18	0.41
4:ZN:161:THR:O	4:ZN:161:THR:OG1	2.29	0.41
4:ZO:288:ASP:N	4:ZO:305:SER:OG	2.43	0.41
4:ZP:4:SER:O	4:ZP:8:SER:OG	2.33	0.41
4:ZP:269:GLN:NE2	4:ZV:146:ALA:HB3	2.34	0.41
4:ZT:121:ALA:HB2	4:ZT:128:ILE:HD13	2.03	0.41
4:ZT:200:PHE:HZ	4:ZT:263:PHE:HE2	1.69	0.41
4:ZU:232:PHE:HE2	4:ZU:267:MET:HA	1.86	0.41
4:ZW:2:SER:O	4:ZW:2:SER:OG	2.36	0.41
4:ZY:349:GLY:O	4:Ze:89:ASN:ND2	2.53	0.41
4:ZZ:77:ILE:HD11	4:ZZ:83:PHE:CD1	2.56	0.41
4:Ze:78:SER:O	4:Ze:354:GLY:HA3	2.20	0.41
4:Zf:58:THR:HG23	4:Zf:324:GLU:HG2	2.02	0.41
4:Zf:228:THR:HB	4:Zf:244:VAL:HG21	2.01	0.41
5:AA:46:VAL:HA	6:BI:326:ALA:HB2	2.02	0.41
5:AB:202:MET:CE	3:AM:73:ARG:CZ	2.98	0.41
3:AG:2:ILE:HG23	3:AG:5:LEU:HB2	2.03	0.41
3:AN:173:LEU:HD23	3:AN:173:LEU:HA	1.84	0.41
6:AR:404:LEU:HD22	6:AR:409:MET:HE3	2.02	0.41
7:Ab:52:ILE:HD12	7:Ab:52:ILE:N	2.35	0.41
6:Ae:370:ARG:HE	10:A2:7:ILE:CD1	2.24	0.41
6:Ae:372:ILE:HD13	10:A2:3:ALA:HA	2.02	0.41
9:Au:44:THR:HG23	10:Az:84:MET:HE1	2.01	0.41
9:Av:194:LEU:HD23	9:Av:194:LEU:HA	1.83	0.41
9:Av:234:LEU:HD12	9:Av:234:LEU:HA	1.92	0.41
9:Ax:52:THR:HG23	10:A4:97:GLN:HE21	1.85	0.41
10:A5:69:ASN:OD1	12:BA:112:TYR:OH	2.11	0.41
6:UI:214:ASP:OD2	6:UI:218:HIS:HB2	2.20	0.41
6:UK:207:PRO:CA	6:WE:187:ASP:OD1	2.67	0.41
6:UN:214:ASP:OD2	6:UN:218:HIS:HB2	2.20	0.41
12:BA:30:ASN:ND2	12:BF:62:VAL:HB	2.36	0.41
6:WD:190:GLN:O	6:WD:191:ILE:C	2.64	0.41
6:WG:214:ASP:OD1	6:WG:218:HIS:N	2.51	0.41
6:WJ:159:MET:HE3	6:WJ:159:MET:HB3	1.78	0.41
6:WK:190:GLN:CG	6:WL:217:GLY:HA3	2.51	0.41
6:WL:140:LEU:O	6:WL:144:ILE:HG13	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WM:140:LEU:O	6:WM:144:ILE:HG13	2.20	0.41
6:WT:128:GLU:HG3	6:WU:126:PHE:CE2	2.55	0.41
6:WV:145:GLU:C	6:WV:147:LEU:N	2.78	0.41
12:BD:127:LEU:HD12	12:BD:127:LEU:HA	1.96	0.41
12:BE:119:LEU:HD23	12:BE:119:LEU:HA	1.67	0.41
12:BF:98:VAL:O	12:BF:102:MET:HG2	2.21	0.41
1:G:211:GLY:O	1:G:215:GLU:HG3	2.21	0.41
1:U:84:GLU:OE1	1:V:167:LYS:NZ	2.42	0.41
2:a:273:CYS:HB3	2:b:265:ASN:HA	2.03	0.41
2:c:273:CYS:HB3	2:d:265:ASN:HA	2.03	0.41
2:g:273:CYS:HB3	2:h:265:ASN:HA	2.03	0.41
2:j:273:CYS:HB3	2:k:265:ASN:HA	2.03	0.41
3:3:109:ASP:OD2	3:3:111:THR:HG22	2.20	0.41
3:4:51:GLN:NE2	5:AC:146:LEU:HD11	2.35	0.41
3:7:175:LEU:HG	3:7:206:PRO:HG3	2.02	0.41
4:ZF:355:LYS:H	4:ZF:355:LYS:HG2	1.66	0.41
4:ZL:128:ILE:HD12	4:ZL:314:GLN:HB2	2.03	0.41
4:ZQ:99:GLN:HG2	4:ZQ:111:MET:HE3	2.02	0.41
4:ZR:380:ARG:HD2	4:ZX:396:LEU:HB3	2.03	0.41
4:ZS:381:ASN:O	4:ZS:385:ASN:ND2	2.54	0.41
4:ZU:108:LEU:HD12	4:ZU:137:ILE:HG21	2.02	0.41
4:ZU:197:ASN:HD21	4:ZU:215:SER:HB2	1.85	0.41
4:ZU:230:LEU:HD22	4:ZU:238:LEU:HD11	2.03	0.41
4:Zb:159:ASN:ND2	4:Zb:161:THR:OG1	2.49	0.41
4:Zc:388:THR:O	4:Zc:392:GLN:HG2	2.20	0.41
4:Zd:33:LYS:O	4:Zd:59:GLN:NE2	2.54	0.41
4:Zf:73:LEU:HD22	4:Zf:108:LEU:HD11	2.03	0.41
4:Zf:298:GLY:O	4:Zf:315:ILE:HG13	2.20	0.41
5:AB:116:GLN:NE2	3:AG:42:GLU:HG3	2.35	0.41
5:AC:49:LEU:HA	5:AC:50:SER:HA	1.69	0.41
5:AE:49:LEU:HB2	11:A0:90:PRO:HG2	2.02	0.41
3:AF:151:ILE:HB	3:AF:216:GLN:HG3	2.02	0.41
3:AG:35:LYS:HD2	3:AG:81:HIS:HA	2.02	0.41
3:AH:233:MET:HE1	3:AM:246:ALA:HA	2.01	0.41
6:AY:372:ILE:HG21	10:A3:4:ILE:HG12	2.02	0.41
6:AZ:296:ARG:HG2	6:AZ:296:ARG:NH1	2.35	0.41
6:Aa:290:LYS:HE3	6:Aa:290:LYS:HB2	1.93	0.41
6:Ae:404:LEU:HD22	6:Ae:409:MET:HE3	2.02	0.41
6:AO:421:GLY:O	6:AO:426:ARG:NH2	2.51	0.41
7:Aq:51:PHE:CE2	7:Aq:55:ILE:HD11	2.56	0.41
9:Au:175:VAL:O	9:Au:179:LEU:HG	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Av:144:GLU:HG2	6:WT:165:PHE:HZ	1.86	0.41
9:Av:171:LEU:HD23	9:Aw:95:PHE:CZ	2.55	0.41
9:Ay:129:LYS:HB3	9:Ay:129:LYS:HE3	1.87	0.41
11:A0:66:THR:HG23	6:BX:365:ASN:CG	2.45	0.41
6:UP:125:GLN:C	6:UP:127:SER:N	2.77	0.41
6:WG:193:ALA:HB1	6:WH:213:VAL:CG1	2.48	0.41
6:WI:135:ALA:O	6:WI:139:GLU:HG2	2.21	0.41
6:WL:190:GLN:HG2	6:WM:216:SER:O	2.21	0.41
6:BP:322:PRO:HA	6:BP:323:PRO:HD3	1.98	0.41
6:BU:404:LEU:HD22	6:BU:409:MET:HE3	2.02	0.41
1:I:110:PRO:HD3	1:J:124:MET:HB3	2.00	0.41
2:a:129:VAL:HG21	2:b:136:LEU:HD13	2.02	0.41
2:d:51:GLN:O	2:d:52:THR:OG1	2.36	0.41
2:d:131:SER:O	2:d:131:SER:OG	2.39	0.41
2:e:195:THR:HG21	2:f:241:ASN:ND2	2.35	0.41
2:f:195:THR:HG21	2:g:241:ASN:ND2	2.35	0.41
2:h:255:ILE:HG23	2:h:346:MET:HG2	2.02	0.41
2:o:39:TYR:CE2	2:o:61:THR:HG21	2.55	0.41
2:o:255:ILE:HG23	2:o:346:MET:HG2	2.02	0.41
2:p:255:ILE:HG23	2:p:346:MET:HG2	2.02	0.41
2:p:273:CYS:HB3	2:q:265:ASN:HA	2.03	0.41
2:q:255:ILE:HG23	2:q:346:MET:HG2	2.02	0.41
3:1:73:ARG:HG3	3:1:75:VAL:HG13	2.03	0.41
3:3:95:VAL:O	3:3:118:GLY:HA3	2.20	0.41
3:6:245:LYS:HD3	3:6:245:LYS:HA	1.85	0.41
3:7:109:ASP:OD2	3:7:109:ASP:C	2.63	0.41
3:8:227:ALA:HB1	4:ZJ:399:LEU:HD22	1.97	0.41
3:ZE:35:LYS:NZ	3:ZE:220:GLU:OE1	2.54	0.41
4:ZI:324:GLU:C	4:ZI:326:LEU:N	2.79	0.41
4:ZI:374:ASN:C	4:ZI:376:ILE:N	2.79	0.41
4:ZL:77:ILE:HD11	4:ZL:96:ARG:CZ	2.51	0.41
4:ZL:233:ASN:OD1	4:ZL:237:ILE:N	2.48	0.41
4:ZM:380:ARG:HB3	4:ZS:396:LEU:HD13	2.02	0.41
4:ZN:73:LEU:HD21	4:ZN:292:TYR:HE2	1.85	0.41
4:ZO:49:GLY:O	4:ZO:50:LEU:C	2.63	0.41
4:ZS:118:GLY:HA3	4:ZS:314:GLN:O	2.21	0.41
4:ZU:139:ILE:HA	4:ZU:312:LEU:HD22	2.03	0.41
4:ZU:187:TYR:CE1	4:ZU:285:LYS:HE2	2.56	0.41
4:ZV:93:PHE:HB3	4:ZV:333:VAL:HG22	2.03	0.41
4:ZV:198:VAL:HG12	4:ZV:212:THR:HG22	2.03	0.41
4:ZW:75:VAL:O	4:ZW:98:GLY:HA3	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZY:148:SER:HB3	4:ZY:189:SER:HA	2.03	0.41
4:ZY:171:SER:O	4:ZY:177:SER:OG	2.39	0.41
4:Zc:304:TYR:HE1	4:Zc:310:GLN:HB3	1.86	0.41
4:Zc:348:ALA:HB2	4:Zc:356:LEU:HG	2.02	0.41
4:Zf:380:ARG:HA	4:Zf:380:ARG:HD3	1.78	0.41
4:Zg:370:LYS:HB2	4:Zg:370:LYS:HE2	1.90	0.41
4:Zh:20:ILE:HG23	4:Zh:371:GLU:OE2	2.20	0.41
5:AB:153:ASN:OD1	5:AB:153:ASN:N	2.52	0.41
5:AD:89:VAL:HG22	5:AD:99:TYR:CD1	2.56	0.41
5:AE:82:LEU:HD11	5:AE:88:LEU:HD12	2.03	0.41
6:AR:244:ARG:NH2	6:Aa:235:LEU:HB3	2.36	0.41
7:Ab:18:LEU:HD12	7:Ab:18:LEU:HA	1.91	0.41
6:Ag:235:LEU:HB3	6:Ah:244:ARG:NH2	2.36	0.41
7:Aq:2:THR:HG21	6:WW:125:GLN:CD	2.45	0.41
7:Aq:39:GLN:NE2	7:Aq:49:LEU:HD12	2.31	0.41
9:Au:194:LEU:HD12	9:Av:220:PRO:HG2	2.03	0.41
9:Au:217:ILE:HD13	9:Au:217:ILE:HA	1.89	0.41
11:A7:29:ASN:HD22	11:A7:38:TYR:HE2	1.68	0.41
6:UN:94:HIS:HB2	6:UN:146:THR:HG21	1.97	0.41
6:WA:168:GLU:OE1	6:WW:169:GLN:HB2	2.21	0.41
6:WA:213:VAL:HG11	6:WW:193:ALA:CB	2.48	0.41
6:WL:196:HIS:HB3	6:WM:211:THR:HG21	2.03	0.41
6:WO:181:GLU:CB	6:WO:184:ARG:CG	2.85	0.41
6:WU:193:ALA:HB1	6:WV:213:VAL:HG11	2.03	0.41
12:BD:8:ASP:OD2	12:BD:8:ASP:C	2.64	0.41
6:BX:404:LEU:HD22	6:BX:409:MET:HE3	2.02	0.41
1:A:211:GLY:O	1:A:215:GLU:HG3	2.20	0.41
1:B:66:PHE:CE1	2:a:41:LEU:HD12	2.55	0.41
1:C:211:GLY:O	1:C:215:GLU:HG3	2.20	0.41
1:E:211:GLY:O	1:E:215:GLU:HG3	2.21	0.41
1:J:66:PHE:CE1	2:i:41:LEU:HD12	2.55	0.41
1:P:211:GLY:O	1:P:215:GLU:HG3	2.20	0.41
1:V:59:ASN:ND2	2:t:130:ASP:HB2	2.33	0.41
2:a:136:LEU:HD13	2:z:129:VAL:HG21	2.02	0.41
2:a:265:ASN:HA	2:z:273:CYS:HB3	2.03	0.41
2:b:161:ASN:ND2	2:c:46:ASP:HA	2.33	0.41
2:d:273:CYS:HB3	2:e:265:ASN:HA	2.03	0.41
2:g:195:THR:HG21	2:h:241:ASN:ND2	2.35	0.41
2:g:255:ILE:HG23	2:g:346:MET:HG2	2.02	0.41
2:i:255:ILE:HG23	2:i:346:MET:HG2	2.02	0.41
2:j:255:ILE:HG23	2:j:346:MET:HG2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:159:GLN:HE21	2:k:159:GLN:HB2	1.66	0.41
2:k:255:ILE:HG23	2:k:346:MET:HG2	2.02	0.41
2:l:255:ILE:HG23	2:l:346:MET:HG2	2.02	0.41
2:m:255:ILE:HG23	2:m:346:MET:HG2	2.02	0.41
2:m:273:CYS:HB3	2:n:265:ASN:HA	2.03	0.41
2:n:255:ILE:HG23	2:n:346:MET:HG2	2.02	0.41
2:o:78:ASN:CG	3:AI:169:GLN:NE2	2.78	0.41
2:s:195:THR:HG21	2:t:241:ASN:ND2	2.35	0.41
2:s:273:CYS:HB3	2:t:265:ASN:HA	2.03	0.41
2:v:159:GLN:HE21	2:v:159:GLN:HB2	1.66	0.41
2:v:161:ASN:ND2	2:w:46:ASP:HA	2.33	0.41
3:2:100:GLN:NE2	3:2:210:GLY:O	2.43	0.41
3:3:46:TYR:HA	3:3:69:GLY:HA2	2.02	0.41
3:4:56:SER:C	5:AC:138:ALA:CB	2.88	0.41
3:5:79:ARG:NH2	3:5:184:LEU:O	2.50	0.41
3:5:208:LEU:HA	3:5:208:LEU:HD13	1.83	0.41
3:7:70:THR:HG23	3:AK:85:ASN:OD1	2.21	0.41
3:9:92:SER:O	3:9:216:GLN:NE2	2.45	0.41
3:ZB:116:ARG:HH21	3:ZB:220:GLU:CD	2.28	0.41
3:ZC:10:THR:OG1	3:ZC:72:VAL:O	2.39	0.41
4:ZF:174:ASP:HB3	4:ZF:176:ASP:OD1	2.21	0.41
4:ZH:157:ASN:ND2	4:ZN:143:LEU:HD13	2.36	0.41
4:ZJ:156:ILE:HG13	4:ZJ:276:ILE:HA	2.03	0.41
4:ZM:27:SER:HB2	4:ZR:381:ASN:ND2	2.36	0.41
4:ZM:111:MET:HE3	4:ZM:111:MET:HB3	1.92	0.41
4:ZM:237:ILE:H	4:ZM:237:ILE:HD12	1.85	0.41
4:ZM:320:PHE:CE1	4:ZM:343:ALA:HB2	2.55	0.41
4:ZN:167:LYS:NZ	4:ZN:168:THR:O	2.54	0.41
4:ZN:184:VAL:HG13	4:ZN:196:MET:HB2	2.01	0.41
4:ZR:18:ASP:CB	4:ZW:5:GLN:HE22	2.33	0.41
4:ZS:42:MET:HE2	4:ZS:42:MET:HB2	1.96	0.41
4:ZS:186:VAL:HG23	4:ZS:194:HIS:HB2	2.02	0.41
4:ZT:380:ARG:NH2	4:ZZ:397:ASN:OD1	2.53	0.41
4:ZU:172:VAL:HG11	4:ZU:223:PRO:HD2	2.03	0.41
4:ZV:213:HIS:HB2	4:ZV:223:PRO:HG3	2.02	0.41
4:ZV:217:ASP:HA	4:ZV:251:ILE:HD11	2.01	0.41
4:ZX:104:GLU:H	4:ZX:104:GLU:CD	2.29	0.41
4:ZX:242:GLY:HA2	4:ZX:263:PHE:HB2	2.03	0.41
4:ZX:285:LYS:HE2	4:ZX:285:LYS:HB3	1.76	0.41
4:ZZ:107:ASN:ND2	4:ZZ:138:THR:HG22	2.35	0.41
4:Zb:361:LEU:HD23	4:Zb:361:LEU:HA	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ze:86:VAL:HG23	4:Ze:117:THR:HG21	2.03	0.41
4:Zf:267:MET:HG3	4:Zf:268:GLN:N	2.35	0.41
4:Zh:33:LYS:O	4:Zh:59:GLN:NE2	2.54	0.41
4:Zh:71:ARG:HD3	4:Zh:73:LEU:HB2	2.03	0.41
4:Zh:285:LYS:HG2	4:Zh:286:PRO:HD2	2.02	0.41
3:AF:140:ILE:HG21	3:AF:157:VAL:HG11	2.02	0.41
3:AF:189:GLU:HB2	3:AK:42:GLU:CD	2.46	0.41
3:AG:155:GLY:HA2	3:AG:214:LEU:HD12	2.03	0.41
3:AH:2:ILE:O	3:AH:3:SER:HB3	2.21	0.41
3:AI:42:GLU:OE1	3:AI:73:ARG:NH2	2.54	0.41
3:AI:114:TYR:CE2	3:AI:178:PHE:HZ	2.39	0.41
3:AL:248:SER:O	3:AL:252:GLN:HG3	2.20	0.41
3:AN:129:VAL:HG12	3:AN:135:GLN:HA	2.02	0.41
6:AS:366:TYR:O	11:A0:72:HIS:CE1	2.74	0.41
6:AS:404:LEU:HD22	6:AS:409:MET:HE3	2.02	0.41
6:AT:404:LEU:HD22	6:AT:409:MET:HE3	2.02	0.41
6:AX:235:LEU:HB3	6:AY:244:ARG:NH2	2.36	0.41
6:AZ:235:LEU:HB3	6:Aa:244:ARG:NH2	2.36	0.41
6:Aa:421:GLY:O	6:Aa:426:ARG:NH2	2.51	0.41
7:Ab:15:LYS:HE2	7:Ab:15:LYS:HB3	1.88	0.41
6:Ad:235:LEU:HB3	6:Ae:244:ARG:NH2	2.36	0.41
6:Aj:235:LEU:HB3	6:Ak:244:ARG:NH2	2.36	0.41
6:Ak:296:ARG:HG2	6:Ak:296:ARG:NH1	2.35	0.41
6:An:276:GLU:CD	10:Az:11:ILE:HD13	2.46	0.41
6:AO:297:GLN:NE2	11:A6:60:THR:O	2.52	0.41
7:Aq:59:PHE:CZ	9:Av:198:LEU:HD21	2.55	0.41
7:Ar:49:LEU:HD23	7:Ar:49:LEU:HA	1.94	0.41
8:At:231:ALA:O	8:At:234:PRO:HD2	2.21	0.41
9:Au:149:LEU:HD13	6:WQ:164:LEU:CD2	2.51	0.41
9:Au:149:LEU:HD13	6:WQ:164:LEU:HD21	2.02	0.41
9:Au:153:LEU:HD23	6:WR:165:PHE:CE2	2.55	0.41
9:Av:171:LEU:O	9:Av:175:VAL:HG23	2.21	0.41
9:Ax:187:PHE:CD2	9:Ay:224:MET:HB2	2.56	0.41
9:Ay:147:LEU:HD11	6:WH:166:VAL:HG11	2.01	0.41
9:Ay:152:ARG:HH22	6:WJ:165:PHE:N	2.17	0.41
6:UJ:125:GLN:C	6:UJ:127:SER:N	2.77	0.41
6:UJ:263:ASP:OD2	6:UJ:267:HIS:HB2	2.20	0.41
6:UK:125:GLN:C	6:UK:127:SER:N	2.77	0.41
6:UL:219:LEU:HD22	6:BS:247:ARG:HH12	1.77	0.41
6:WB:190:GLN:CG	6:WC:216:SER:O	2.67	0.41
6:WG:121:PHE:CE2	6:WG:123:ILE:HA	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:WM:193:ALA:CB	6:WN:213:VAL:CG1	2.94	0.41
6:WO:186:LEU:HA	6:WO:190:GLN:OE1	2.21	0.41
6:WV:145:GLU:O	6:WV:147:LEU:N	2.54	0.41
12:BE:126:MET:O	12:BE:129:THR:HG22	2.21	0.41
1:F:102:THR:HG23	1:G:130:ASN:CG	2.46	0.41
1:K:66:PHE:CE1	2:j:41:LEU:HD12	2.55	0.41
1:L:211:GLY:O	1:L:215:GLU:HG3	2.21	0.41
1:T:66:PHE:CE1	2:s:41:LEU:HD12	2.55	0.41
1:U:211:GLY:O	1:U:215:GLU:HG3	2.20	0.41
2:b:129:VAL:HG21	2:c:136:LEU:HD13	2.02	0.41
2:l:129:VAL:HG21	2:m:136:LEU:HD13	2.02	0.41
2:w:273:CYS:HB3	2:x:265:ASN:HA	2.03	0.41
3:1:22:ILE:HD11	3:1:232:ASN:HB3	2.02	0.41
3:1:83:GLN:HE21	3:ZC:45:LEU:HD12	1.86	0.41
3:4:10:THR:OG1	3:4:71:GLY:HA3	2.21	0.41
3:5:144:ALA:HA	3:ZA:179:MET:SD	2.61	0.41
3:7:119:SER:OG	3:ZC:38:ARG:NH2	2.54	0.41
3:ZA:7:ILE:HG23	3:ZA:71:GLY:HA2	2.03	0.41
3:ZE:31:THR:HG22	4:ZJ:39:PHE:HB2	2.03	0.41
4:ZF:401:ASN:HD22	4:ZF:401:ASN:HA	1.74	0.41
4:ZI:147:LYS:HE2	4:ZI:282:ASN:ND2	2.36	0.41
4:ZI:390:LYS:HZ3	4:ZI:394:GLN:HE22	1.68	0.41
4:ZJ:208:TRP:HE1	4:ZJ:268:GLN:CD	2.29	0.41
4:ZM:149:THR:O	4:ZM:259:PHE:HB3	2.21	0.41
4:ZN:233:ASN:ND2	4:ZN:237:ILE:HB	2.35	0.41
4:ZO:112:GLN:HG2	4:ZO:331:ASP:HB3	2.02	0.41
4:ZP:75:VAL:O	4:ZP:98:GLY:HA3	2.21	0.41
4:ZT:373:VAL:HG11	4:ZZ:7:VAL:HG22	2.02	0.41
4:ZU:299:THR:HG22	4:ZU:314:GLN:OE1	2.21	0.41
4:ZV:46:SER:HB3	4:ZV:48:VAL:HG22	2.03	0.41
4:Za:190:GLN:HG3	4:Za:254:ALA:HB2	2.03	0.41
4:Zb:110:ASN:OD1	4:Zb:114:MET:N	2.50	0.41
4:Ze:85:LEU:HD23	4:Ze:114:MET:HB3	2.02	0.41
5:AC:26:LEU:HD23	5:AC:26:LEU:HA	1.91	0.41
3:AF:44:LEU:HD13	3:AF:70:THR:HG22	2.02	0.41
3:AF:138:PRO:HG3	3:AF:174:ASN:ND2	2.36	0.41
3:AH:3:SER:O	3:AH:7:ILE:HD12	2.21	0.41
3:AL:130:THR:OG1	3:AL:131:ALA:N	2.54	0.41
3:AN:225:ASN:O	3:AN:229:GLU:HG2	2.20	0.41
6:AW:235:LEU:HB3	6:AX:244:ARG:NH2	2.36	0.41
7:Ab:50:SER:OG	7:Aq:46:GLU:OE2	2.25	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ad:404:LEU:HD22	6:Ad:409:MET:HE3	2.02	0.41
6:Ap:421:GLY:O	6:Ap:426:ARG:NH2	2.51	0.41
8:At:156:THR:HG22	6:WK:167:ARG:CB	2.50	0.41
9:Au:153:LEU:HD23	9:Au:153:LEU:HA	1.91	0.41
6:WC:143:THR:O	6:WC:146:THR:OG1	2.36	0.41
6:WH:149:PRO:CD	6:WH:190:GLN:HE22	2.32	0.41
6:WI:181:GLU:CB	6:WI:184:ARG:CG	2.85	0.41
6:WJ:187:ASP:H	6:WJ:190:GLN:CD	2.29	0.41
6:WT:181:GLU:CB	6:WT:184:ARG:CG	2.85	0.41
6:WU:145:GLU:O	6:WU:147:LEU:N	2.54	0.41
6:WU:163:SER:O	6:WU:166:VAL:HG22	2.20	0.41
12:BE:45:LYS:C	12:BE:46:GLN:HG2	2.46	0.41
6:BV:404:LEU:HD22	6:BV:409:MET:HE3	2.02	0.41
1:A:102:THR:HG23	1:B:130:ASN:CG	2.46	0.40
1:Y:211:GLY:O	1:Y:215:GLU:HG3	2.20	0.40
2:g:51:GLN:HE21	2:g:51:GLN:HB3	1.63	0.40
2:t:195:THR:HG21	2:u:241:ASN:ND2	2.35	0.40
2:u:129:VAL:HG21	2:v:136:LEU:HD13	2.02	0.40
2:u:161:ASN:ND2	2:v:46:ASP:HA	2.33	0.40
2:v:51:GLN:HE21	2:v:51:GLN:HB3	1.63	0.40
2:v:129:VAL:HG21	2:w:136:LEU:HD13	2.02	0.40
3:0:11:GLY:O	3:0:15:GLN:HG2	2.21	0.40
3:5:1:MET:HE3	3:5:1:MET:HB2	1.88	0.40
3:ZD:208:LEU:C	3:ZD:210:GLY:H	2.29	0.40
4:ZJ:174:ASP:HB3	4:ZJ:176:ASP:OD1	2.21	0.40
4:ZK:71:ARG:O	4:ZK:359:GLY:HA2	2.20	0.40
4:ZN:174:ASP:OD2	4:ZN:174:ASP:N	2.52	0.40
4:ZO:195:ASP:OD2	4:ZO:216:SER:OG	2.38	0.40
4:ZO:374:ASN:O	4:ZO:375:MET:C	2.65	0.40
4:ZP:42:MET:SD	4:ZP:53:LYS:HB3	2.61	0.40
4:ZT:139:ILE:HA	4:ZT:312:LEU:HD13	2.03	0.40
4:Zb:308:GLN:NE2	4:Zb:309:GLU:OE1	2.54	0.40
4:Zc:110:ASN:OD1	4:Zc:114:MET:N	2.40	0.40
5:AB:172:GLN:NE2	3:AG:52:PRO:CG	2.62	0.40
6:AU:290:LYS:HE3	6:AU:290:LYS:HB2	1.93	0.40
6:AV:404:LEU:HD22	6:AV:409:MET:HE3	2.02	0.40
6:Am:235:LEU:HB3	6:An:244:ARG:NH2	2.36	0.40
6:AO:425:LYS:HE3	6:AO:425:LYS:HB3	1.96	0.40
7:As:35:ILE:HD13	7:As:35:ILE:HA	1.98	0.40
7:As:77:VAL:HG11	9:Ay:225:LEU:HD11	2.03	0.40
9:Au:138:MET:O	9:Au:142:THR:OG1	2.16	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Av:204:LEU:HD11	9:Av:217:ILE:HD12	2.01	0.40
9:Aw:189:ILE:O	9:Aw:192:PRO:HD2	2.21	0.40
9:Aw:189:ILE:HD13	9:Aw:235:LEU:HD11	2.03	0.40
9:Ay:213:PRO:HA	9:Ay:214:PRO:HD3	1.91	0.40
10:A4:7:ILE:O	10:A4:11:ILE:HG23	2.21	0.40
6:UK:214:ASP:OD2	6:UK:218:HIS:HB2	2.20	0.40
6:WE:197:LEU:HA	6:WF:175:SER:OG	2.21	0.40
6:WM:181:GLU:CB	6:WM:184:ARG:CG	2.85	0.40
6:WS:115:LEU:HA	6:WS:118:GLN:OE1	2.21	0.40
6:BU:360:ARG:NH1	6:BU:362:GLU:OE1	2.55	0.40
6:BV:421:GLY:O	6:BV:426:ARG:NH2	2.51	0.40
1:X:110:PRO:HD3	1:Y:124:MET:HB3	2.00	0.40
2:h:195:THR:HG21	2:i:241:ASN:ND2	2.35	0.40
2:i:93:TYR:HA	2:i:94:PRO:HD3	1.94	0.40
2:j:51:GLN:HE21	2:j:51:GLN:HB3	1.63	0.40
2:n:129:VAL:HG21	2:o:136:LEU:HD13	2.02	0.40
2:o:129:VAL:HG21	2:p:136:LEU:HD13	2.02	0.40
2:t:161:ASN:ND2	2:u:46:ASP:HA	2.33	0.40
2:y:188:GLN:CB	2:z:101:GLN:NE2	2.83	0.40
2:y:273:CYS:HB3	2:z:265:ASN:HA	2.03	0.40
3:0:35:LYS:HA	3:0:35:LYS:HD3	1.96	0.40
3:1:107:LEU:HD11	3:1:113:ALA:HB2	2.03	0.40
3:4:55:GLN:CB	5:AC:144:SER:OG	2.69	0.40
3:6:57:SER:H	5:AE:138:ALA:HB1	1.85	0.40
3:ZA:76:ALA:HB1	4:ZF:47:LYS:HD3	2.04	0.40
3:ZB:235:GLN:NE2	4:ZH:3:PHE:CG	2.67	0.40
4:ZG:147:LYS:HB2	4:ZG:147:LYS:HE2	1.66	0.40
4:ZH:111:MET:N	4:ZH:111:MET:SD	2.94	0.40
4:ZH:144:MET:SD	4:ZH:310:GLN:NE2	2.95	0.40
4:ZJ:351:GLY:C	4:ZJ:353:PHE:H	2.29	0.40
4:ZL:122:THR:OG1	4:ZL:129:GLN:OE1	2.38	0.40
4:ZR:183:THR:HG22	4:ZR:197:ASN:HD22	1.86	0.40
4:ZS:71:ARG:NH1	4:ZS:74:ASP:OD1	2.54	0.40
4:ZS:399:LEU:HD23	4:ZS:399:LEU:HA	1.92	0.40
5:AA:247:LEU:CB	12:BB:120:ASN:HD21	2.21	0.40
5:AC:243:ARG:HD2	12:BD:113:GLN:CG	2.51	0.40
5:AD:83:GLN:HG2	5:AD:84:GLN:N	2.36	0.40
6:AU:235:LEU:HB3	6:AV:244:ARG:NH2	2.36	0.40
6:Ac:235:LEU:HB3	6:Ad:244:ARG:NH2	2.36	0.40
6:Ac:404:LEU:HD22	6:Ac:409:MET:HE3	2.02	0.40
6:Aj:360:ARG:NH1	6:Aj:362:GLU:OE1	2.55	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Aq:84:LEU:HD22	9:Aw:185:ILE:HG23	2.03	0.40
8:At:4:VAL:HB	10:A5:44:ARG:HH12	1.86	0.40
9:Au:187:PHE:CZ	9:Au:191:ILE:HD11	2.56	0.40
9:Av:75:ARG:HB2	9:Av:83:ALA:CB	2.52	0.40
9:Ay:64:PHE:HE2	10:A4:102:MET:HE1	1.85	0.40
10:A4:103:GLN:CD	10:A4:103:GLN:H	2.29	0.40
6:Ui:52:ARG:O	6:Ui:88:VAL:N	2.38	0.40
6:UJ:54:LEU:HG	6:UJ:55:PHE:CD2	2.56	0.40
6:UJ:261:LEU:HG	6:UJ:269:LEU:HD12	2.04	0.40
6:UL:69:GLN:NE2	6:WH:182:PRO:CG	2.84	0.40
6:UN:102:GLN:CG	6:UN:193:ALA:HB2	2.49	0.40
6:UO:54:LEU:HG	6:UO:55:PHE:CD2	2.57	0.40
6:WK:181:GLU:CB	6:WK:184:ARG:CG	2.85	0.40
6:WR:181:GLU:CB	6:WR:184:ARG:CG	2.85	0.40
6:WR:193:ALA:HB1	6:WS:213:VAL:HG21	2.03	0.40
6:BR:360:ARG:NH1	6:BR:362:GLU:OE1	2.55	0.40
1:S:40:ILE:HD13	1:S:40:ILE:HA	1.88	0.40
2:c:195:THR:HG21	2:d:241:ASN:ND2	2.35	0.40
2:i:129:VAL:HG21	2:j:136:LEU:HD13	2.02	0.40
2:j:129:VAL:HG21	2:k:136:LEU:HD13	2.02	0.40
2:k:129:VAL:HG21	2:l:136:LEU:HD13	2.02	0.40
2:k:273:CYS:HB3	2:l:265:ASN:HA	2.03	0.40
2:m:129:VAL:HG21	2:n:136:LEU:HD13	2.02	0.40
2:r:188:GLN:CB	2:s:101:GLN:NE2	2.83	0.40
2:t:129:VAL:HG21	2:u:136:LEU:HD13	2.02	0.40
2:y:129:VAL:HG21	2:z:136:LEU:HD13	2.02	0.40
3:O:137:GLN:HA	3:O:138:PRO:C	2.45	0.40
3:2:50:ARG:HD3	3:2:66:LEU:HB2	2.03	0.40
3:4:117:ASP:OD1	3:4:117:ASP:C	2.64	0.40
3:6:22:ILE:HD11	3:6:232:ASN:HB3	2.03	0.40
3:8:45:LEU:HD23	3:8:45:LEU:HA	1.81	0.40
3:8:127:GLN:NE2	3:8:139:ALA:HB1	2.35	0.40
3:ZB:147:LEU:CD2	4:ZG:352:ASN:OD1	2.70	0.40
3:ZC:44:LEU:HD23	3:ZC:44:LEU:HA	1.82	0.40
3:ZD:104:GLN:O	3:ZD:137:GLN:N	2.54	0.40
3:ZD:160:THR:HG22	3:ZD:167:PRO:HB3	2.04	0.40
3:ZD:186:SER:O	4:ZI:45:GLY:O	2.39	0.40
3:ZE:225:ASN:O	3:ZE:229:GLU:HG2	2.21	0.40
4:ZF:157:ASN:ND2	4:ZL:143:LEU:HD13	2.36	0.40
4:ZF:393:ASP:C	4:ZF:395:ILE:N	2.76	0.40
4:ZG:380:ARG:NH1	4:ZG:383:GLN:OE1	2.54	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ZJ:75:VAL:O	4:ZJ:98:GLY:HA3	2.21	0.40
4:ZJ:180:LYS:HE3	4:ZJ:276:ILE:HG13	2.03	0.40
4:ZM:396:LEU:HD23	4:ZM:396:LEU:HA	1.85	0.40
4:ZN:74:ASP:O	4:ZN:359:GLY:N	2.52	0.40
4:ZN:170:PHE:CD2	4:ZN:170:PHE:C	2.99	0.40
4:ZP:104:GLU:CD	4:ZP:104:GLU:H	2.29	0.40
4:ZQ:97:ASN:HD22	4:ZQ:332:ASN:HD21	1.70	0.40
4:ZR:79:GLN:HB3	4:ZR:80:ASN:H	1.75	0.40
4:ZU:188:ASP:OD1	4:ZU:192:ASN:N	2.54	0.40
4:ZX:230:LEU:HD11	4:ZX:263:PHE:HD2	1.87	0.40
4:ZZ:74:ASP:HB3	4:ZZ:361:LEU:HG	2.03	0.40
4:Ze:71:ARG:NH2	4:Ze:74:ASP:OD1	2.54	0.40
4:Zh:78:SER:OG	4:Zh:355:LYS:O	2.36	0.40
5:AB:70:GLN:CG	3:AM:6:TRP:NE1	2.84	0.40
3:AM:49:ILE:O	3:AM:65:GLY:HA3	2.21	0.40
3:AN:83:GLN:NE2	3:AN:97:ILE:O	2.36	0.40
6:Ad:360:ARG:NH1	6:Ad:362:GLU:OE1	2.55	0.40
6:AO:360:ARG:NH1	6:AO:362:GLU:OE1	2.55	0.40
6:UL:51:TYR:HB2	6:UL:78:ARG:CZ	2.51	0.40
6:UL:125:GLN:C	6:UL:127:SER:N	2.77	0.40
6:UM:212:LEU:HG	6:UM:220:LEU:HD12	2.04	0.40
6:WC:125:GLN:O	6:WC:128:GLU:HG2	2.20	0.40
6:WD:193:ALA:HB1	6:WE:213:VAL:CG2	2.50	0.40
6:WL:191:ILE:HG23	6:WL:212:LEU:HD23	2.03	0.40
6:WQ:121:PHE:O	6:WQ:122:GLY:C	2.64	0.40
6:WR:139:GLU:HB3	6:WS:156:HIS:HE1	1.87	0.40
12:BF:119:LEU:HD23	12:BF:119:LEU:HA	1.98	0.40
1:J:110:PRO:HD3	1:K:124:MET:HB3	2.00	0.40
1:N:211:GLY:O	1:N:215:GLU:HG3	2.20	0.40
1:W:211:GLY:O	1:W:215:GLU:HG3	2.20	0.40
2:c:161:ASN:ND2	2:d:46:ASP:HA	2.33	0.40
2:d:51:GLN:HE21	2:d:51:GLN:HB3	1.63	0.40
2:f:129:VAL:HG21	2:g:136:LEU:HD13	2.02	0.40
2:f:273:CYS:HB3	2:g:265:ASN:HA	2.03	0.40
2:g:131:SER:O	2:g:131:SER:OG	2.39	0.40
2:r:129:VAL:HG21	2:s:136:LEU:HD13	2.02	0.40
2:s:161:ASN:ND2	2:t:46:ASP:HA	2.33	0.40
2:x:51:GLN:HE21	2:x:51:GLN:HB3	1.63	0.40
3:0:3:SER:O	5:AD:70:GLN:HG2	2.20	0.40
3:0:189:GLU:HB2	3:5:42:GLU:OE1	2.21	0.40
3:7:184:LEU:HB3	3:7:192:TYR:HB3	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8:255:GLN:HA	3:8:258:THR:HG22	2.03	0.40
3:9:76:ALA:HB1	3:ZE:64:SER:O	2.22	0.40
3:ZB:34:PHE:HB3	3:ZB:222:SER:HB3	2.04	0.40
3:ZB:35:LYS:NZ	3:ZB:220:GLU:OE2	2.54	0.40
3:ZE:40:VAL:O	3:ZE:75:VAL:N	2.51	0.40
4:ZI:2:SER:O	4:ZI:2:SER:OG	2.31	0.40
4:ZK:104:GLU:HG2	4:ZP:338:GLN:O	2.21	0.40
4:ZL:93:PHE:HB3	4:ZL:333:VAL:HG13	2.03	0.40
4:ZL:125:PRO:HA	4:ZL:126:PRO:HD3	1.97	0.40
4:ZO:242:GLY:O	4:ZO:263:PHE:N	2.47	0.40
4:ZO:262:SER:OG	4:ZO:264:LEU:HD23	2.22	0.40
4:ZP:85:LEU:HD23	4:ZP:116:LEU:HA	2.04	0.40
4:ZP:185:THR:HG22	4:ZP:187:TYR:HE1	1.87	0.40
4:ZP:248:THR:HG1	4:ZP:257:ALA:H	1.65	0.40
4:ZQ:199:TYR:O	4:ZQ:210:VAL:HA	2.21	0.40
4:ZU:281:GLN:NE2	4:ZU:283:GLY:O	2.53	0.40
4:ZX:171:SER:O	4:ZX:177:SER:OG	2.39	0.40
4:ZY:53:LYS:HE3	4:ZY:53:LYS:HB2	1.86	0.40
4:ZZ:106:ARG:HD2	4:ZZ:106:ARG:HA	1.79	0.40
4:Ze:84:ARG:C	4:Ze:85:LEU:HD12	2.46	0.40
4:Ze:367:ASP:O	4:Ze:371:GLU:HG2	2.21	0.40
4:Zh:38:SER:O	4:Zh:55:ALA:N	2.52	0.40
5:AA:82:LEU:HD21	5:AA:88:LEU:HD12	2.03	0.40
3:AG:2:ILE:HD13	3:AG:250:THR:CG2	2.52	0.40
3:AH:35:LYS:HA	3:AH:35:LYS:HD3	1.91	0.40
3:AH:123:ASP:OD1	3:AH:127:GLN:HB3	2.21	0.40
3:AJ:175:LEU:HD23	3:AJ:175:LEU:HA	1.97	0.40
6:AX:278:THR:HG21	10:A3:7:ILE:HB	2.02	0.40
6:Af:360:ARG:NH1	6:Af:362:GLU:OE1	2.55	0.40
6:Ag:360:ARG:NH1	6:Ag:362:GLU:OE1	2.55	0.40
6:Ai:360:ARG:NH1	6:Ai:362:GLU:OE1	2.55	0.40
6:Am:360:ARG:NH1	6:Am:362:GLU:OE1	2.55	0.40
6:Ap:360:ARG:NH1	6:Ap:362:GLU:OE1	2.55	0.40
9:Av:45:LEU:O	9:Av:49:THR:OG1	2.29	0.40
9:Aw:71:PHE:HD1	9:Aw:71:PHE:HA	1.80	0.40
9:Ax:132:GLN:HB2	9:Ax:133:PRO:HD3	2.04	0.40
9:Ax:241:GLN:CD	6:WC:164:LEU:O	2.63	0.40
10:Az:68:LEU:H	10:Az:68:LEU:HD12	1.85	0.40
10:A1:7:ILE:O	10:A1:11:ILE:HG23	2.21	0.40
10:A5:77:LYS:HE2	12:BA:7:PHE:HB3	2.04	0.40
6:UI:125:GLN:C	6:UI:127:SER:N	2.77	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UJ:51:TYR:HB2	6:UJ:78:ARG:CZ	2.51	0.40
6:UM:54:LEU:HG	6:UM:55:PHE:CD2	2.57	0.40
6:UM:125:GLN:C	6:UM:127:SER:N	2.77	0.40
6:UM:214:ASP:OD2	6:UM:218:HIS:HB2	2.20	0.40
6:WG:120:LYS:HA	6:WG:120:LYS:HE2	2.03	0.40
6:WS:197:LEU:HA	6:WT:175:SER:CB	2.52	0.40
6:BX:360:ARG:NH1	6:BX:362:GLU:OE1	2.55	0.40
1:O:47:ALA:O	2:l:177:THR:HA	2.22	0.40
1:V:102:THR:HG23	1:W:130:ASN:CG	2.46	0.40
1:Y:110:PRO:HD3	1:Z:124:MET:HB3	2.00	0.40
2:e:129:VAL:HG21	2:f:136:LEU:HD13	2.02	0.40
2:g:129:VAL:HG21	2:h:136:LEU:HD13	2.02	0.40
2:i:195:THR:HG21	2:j:241:ASN:ND2	2.35	0.40
2:p:129:VAL:HG21	2:q:136:LEU:HD13	2.02	0.40
2:q:273:CYS:HB3	2:r:265:ASN:HA	2.03	0.40
2:r:161:ASN:ND2	2:s:46:ASP:HA	2.33	0.40
2:w:129:VAL:HG21	2:x:136:LEU:HD13	2.02	0.40
3:0:1:MET:HA	5:AD:211:VAL:O	2.22	0.40
3:0:67:GLN:HE22	3:AJ:185:GLU:HA	1.87	0.40
3:1:42:GLU:OE2	3:1:75:VAL:HG11	2.22	0.40
3:2:7:ILE:O	3:2:10:THR:OG1	2.32	0.40
3:4:106:MET:HE2	3:4:106:MET:HB3	1.81	0.40
3:5:42:GLU:HG2	3:5:73:ARG:HG2	2.04	0.40
3:6:153:ARG:NH1	3:6:213:LEU:HD22	2.37	0.40
4:ZG:14:ALA:HB2	4:ZG:382:TYR:HE2	1.86	0.40
4:ZG:111:MET:N	4:ZG:111:MET:SD	2.95	0.40
4:ZI:159:ASN:HB3	4:ZI:162:ASP:OD1	2.22	0.40
4:ZM:99:GLN:HG2	4:ZM:361:LEU:HD11	2.02	0.40
4:ZM:180:LYS:HG3	4:ZM:181:LYS:N	2.37	0.40
4:ZN:109:VAL:HG12	4:ZN:115:GLN:HA	2.02	0.40
4:ZO:104:GLU:OE2	4:ZO:104:GLU:N	2.35	0.40
4:ZP:16:ASN:O	4:ZP:20:ILE:HG13	2.22	0.40
4:ZR:156:ILE:HD12	4:ZR:276:ILE:HG12	2.04	0.40
4:ZS:81:GLY:O	4:ZS:82:PHE:HD1	2.05	0.40
4:ZT:103:ASP:OD1	4:ZT:105:ASN:N	2.54	0.40
4:ZW:78:SER:O	4:ZW:354:GLY:HA3	2.22	0.40
4:ZX:56:GLY:HA2	4:Zc:47:LYS:NZ	2.36	0.40
4:ZY:75:VAL:HG21	4:ZY:356:LEU:HD23	2.04	0.40
4:ZZ:17:LEU:CD1	4:Ze:395:ILE:HD11	2.51	0.40
4:Za:107:ASN:ND2	4:Za:138:THR:HG22	2.36	0.40
4:Zb:42:MET:HG2	4:Zb:53:LYS:HE3	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Zb:399:LEU:HD23	4:Zb:399:LEU:HA	1.78	0.40
4:Zd:155:GLN:NE2	4:Zd:265:ASN:O	2.55	0.40
4:Zg:30:TYR:HD1	4:Zg:363:ALA:HA	1.86	0.40
5:AA:79:ASP:HB3	5:AA:206:LEU:CD1	2.51	0.40
3:AF:6:TRP:NE1	12:BA:77:VAL:HG12	2.25	0.40
3:AF:44:LEU:H	3:AF:44:LEU:HD12	1.86	0.40
3:AF:75:VAL:HG23	3:AF:76:ALA:H	1.87	0.40
3:AG:5:LEU:HD23	3:AG:5:LEU:HA	1.88	0.40
3:AH:155:GLY:HA2	3:AH:214:LEU:HD12	2.04	0.40
3:AL:179:MET:HE2	3:AL:200:ALA:HB3	2.03	0.40
6:AY:235:LEU:HB3	6:AZ:244:ARG:NH2	2.36	0.40
6:Af:235:LEU:HB3	6:Ag:244:ARG:NH2	2.36	0.40
6:Ak:372:ILE:HD12	10:A1:4:ILE:HA	2.03	0.40
6:Ap:235:LEU:HB3	6:AO:244:ARG:NH2	2.36	0.40
8:At:6:SER:OG	8:At:7:GLU:N	2.55	0.40
8:At:146:LEU:HD23	8:At:146:LEU:HA	1.81	0.40
8:At:172:LEU:O	8:At:175:ALA:HB3	2.21	0.40
9:Ax:153:LEU:CD2	6:WG:165:PHE:CE2	3.05	0.40
11:A7:87:TYR:CZ	6:BK:320:PRO:HB3	2.56	0.40
11:A8:67:LEU:CA	11:A8:72:HIS:HE2	2.34	0.40
6:UM:51:TYR:HB2	6:UM:78:ARG:CZ	2.52	0.40
6:WG:124:SER:O	6:WG:127:SER:N	2.55	0.40
6:WJ:144:ILE:O	6:WJ:147:LEU:HB2	2.21	0.40
6:WR:201:ALA:C	6:WS:158:ALA:HB2	2.47	0.40
6:WW:161:LYS:HE3	6:WW:161:LYS:HB2	1.93	0.40
6:BW:404:LEU:HD22	6:BW:409:MET:HE3	2.02	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	B	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	C	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	D	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	E	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	F	209/232 (90%)	204 (98%)	4 (2%)	1 (0%)	24	54
1	G	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	H	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	I	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	J	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	K	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	L	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	M	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	N	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	O	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	P	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	Q	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	R	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	S	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	T	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	U	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	V	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	W	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	X	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	Y	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
1	Z	209/232 (90%)	205 (98%)	3 (1%)	1 (0%)	24	54
2	a	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	b	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	c	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	d	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	e	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	f	297/365 (81%)	293 (99%)	4 (1%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	g	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	h	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	i	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	j	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	k	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	l	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	m	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	n	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	o	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	p	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	q	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	r	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	s	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	t	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	u	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	v	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	w	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	x	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	y	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
2	z	297/365 (81%)	293 (99%)	4 (1%)	0	100	100
3	0	244/260 (94%)	237 (97%)	6 (2%)	1 (0%)	30	59
3	1	248/260 (95%)	238 (96%)	9 (4%)	1 (0%)	30	59
3	2	258/260 (99%)	247 (96%)	9 (4%)	2 (1%)	16	44
3	3	258/260 (99%)	248 (96%)	8 (3%)	2 (1%)	16	44
3	4	258/260 (99%)	248 (96%)	7 (3%)	3 (1%)	10	35
3	5	258/260 (99%)	242 (94%)	14 (5%)	2 (1%)	16	44
3	6	258/260 (99%)	244 (95%)	12 (5%)	2 (1%)	16	44
3	7	258/260 (99%)	245 (95%)	10 (4%)	3 (1%)	10	35
3	8	258/260 (99%)	247 (96%)	9 (4%)	2 (1%)	16	44
3	9	258/260 (99%)	245 (95%)	11 (4%)	2 (1%)	16	44
3	AF	250/260 (96%)	237 (95%)	12 (5%)	1 (0%)	30	59

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	AG	251/260 (96%)	237 (94%)	13 (5%)	1 (0%)	30	59
3	AH	252/260 (97%)	241 (96%)	10 (4%)	1 (0%)	30	59
3	AI	250/260 (96%)	242 (97%)	6 (2%)	2 (1%)	16	44
3	AJ	251/260 (96%)	241 (96%)	9 (4%)	1 (0%)	30	59
3	AK	239/260 (92%)	232 (97%)	6 (2%)	1 (0%)	30	59
3	AL	244/260 (94%)	237 (97%)	4 (2%)	3 (1%)	10	35
3	AM	244/260 (94%)	237 (97%)	6 (2%)	1 (0%)	30	59
3	AN	244/260 (94%)	240 (98%)	3 (1%)	1 (0%)	30	59
3	ZA	258/260 (99%)	242 (94%)	13 (5%)	3 (1%)	10	35
3	ZB	258/260 (99%)	243 (94%)	12 (5%)	3 (1%)	10	35
3	ZC	258/260 (99%)	243 (94%)	12 (5%)	3 (1%)	10	35
3	ZD	258/260 (99%)	244 (95%)	12 (5%)	2 (1%)	16	44
3	ZE	258/260 (99%)	245 (95%)	12 (5%)	1 (0%)	30	59
4	ZF	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
4	ZG	399/403 (99%)	392 (98%)	6 (2%)	1 (0%)	36	65
4	ZH	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
4	ZI	399/403 (99%)	387 (97%)	10 (2%)	2 (0%)	24	54
4	ZJ	399/403 (99%)	387 (97%)	12 (3%)	0	100	100
4	ZK	399/403 (99%)	390 (98%)	9 (2%)	0	100	100
4	ZL	399/403 (99%)	389 (98%)	9 (2%)	1 (0%)	36	65
4	ZM	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
4	ZN	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
4	ZO	399/403 (99%)	381 (96%)	15 (4%)	3 (1%)	16	44
4	ZP	399/403 (99%)	385 (96%)	13 (3%)	1 (0%)	36	65
4	ZQ	399/403 (99%)	389 (98%)	10 (2%)	0	100	100
4	ZR	399/403 (99%)	390 (98%)	8 (2%)	1 (0%)	36	65
4	ZS	399/403 (99%)	390 (98%)	9 (2%)	0	100	100
4	ZT	399/403 (99%)	389 (98%)	10 (2%)	0	100	100
4	ZU	399/403 (99%)	387 (97%)	12 (3%)	0	100	100
4	ZV	399/403 (99%)	390 (98%)	9 (2%)	0	100	100
4	ZW	399/403 (99%)	385 (96%)	14 (4%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	ZX	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
4	ZY	399/403 (99%)	384 (96%)	15 (4%)	0	100	100
4	ZZ	399/403 (99%)	389 (98%)	10 (2%)	0	100	100
4	Za	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
4	Zb	399/403 (99%)	392 (98%)	7 (2%)	0	100	100
4	Zc	399/403 (99%)	390 (98%)	9 (2%)	0	100	100
4	Zd	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
4	Ze	399/403 (99%)	385 (96%)	14 (4%)	0	100	100
4	Zf	399/403 (99%)	386 (97%)	13 (3%)	0	100	100
4	Zg	399/403 (99%)	387 (97%)	12 (3%)	0	100	100
4	Zh	399/403 (99%)	393 (98%)	6 (2%)	0	100	100
5	AA	246/251 (98%)	232 (94%)	11 (4%)	3 (1%)	10	35
5	AB	247/251 (98%)	241 (98%)	6 (2%)	0	100	100
5	AC	248/251 (99%)	239 (96%)	9 (4%)	0	100	100
5	AD	248/251 (99%)	239 (96%)	9 (4%)	0	100	100
5	AE	247/251 (98%)	233 (94%)	13 (5%)	1 (0%)	30	59
6	AO	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	AP	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	AQ	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	AR	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	AS	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	AT	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	AU	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	AV	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	AW	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	AX	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	AY	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	AZ	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Aa	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Ac	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Ad	160/560 (29%)	158 (99%)	2 (1%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	Ae	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Af	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Ag	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Ah	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Ai	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Aj	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Ak	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Al	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Am	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	An	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Ao	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	Ap	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	BG	11/560 (2%)	10 (91%)	1 (9%)	0	100	100
6	BH	14/560 (2%)	12 (86%)	2 (14%)	0	100	100
6	BI	18/560 (3%)	18 (100%)	0	0	100	100
6	BJ	14/560 (2%)	14 (100%)	0	0	100	100
6	BK	19/560 (3%)	19 (100%)	0	0	100	100
6	BL	14/560 (2%)	12 (86%)	2 (14%)	0	100	100
6	BM	19/560 (3%)	19 (100%)	0	0	100	100
6	BN	14/560 (2%)	14 (100%)	0	0	100	100
6	BO	18/560 (3%)	17 (94%)	1 (6%)	0	100	100
6	BP	14/560 (2%)	14 (100%)	0	0	100	100
6	BQ	19/560 (3%)	19 (100%)	0	0	100	100
6	BR	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	BS	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	BT	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	BU	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	BV	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	BW	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	BX	160/560 (29%)	158 (99%)	2 (1%)	0	100	100
6	UI	151/560 (27%)	146 (97%)	3 (2%)	2 (1%)	9	33

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	UJ	151/560 (27%)	146 (97%)	3 (2%)	2 (1%)	9	33
6	UK	151/560 (27%)	146 (97%)	3 (2%)	2 (1%)	9	33
6	UL	151/560 (27%)	142 (94%)	7 (5%)	2 (1%)	9	33
6	UM	151/560 (27%)	146 (97%)	3 (2%)	2 (1%)	9	33
6	UN	151/560 (27%)	146 (97%)	3 (2%)	2 (1%)	9	33
6	UO	151/560 (27%)	146 (97%)	3 (2%)	2 (1%)	9	33
6	UP	151/560 (27%)	146 (97%)	3 (2%)	2 (1%)	9	33
6	WA	111/560 (20%)	99 (89%)	9 (8%)	3 (3%)	4	20
6	WB	109/560 (20%)	94 (86%)	10 (9%)	5 (5%)	2	12
6	WC	106/560 (19%)	96 (91%)	9 (8%)	1 (1%)	14	42
6	WD	108/560 (19%)	99 (92%)	4 (4%)	5 (5%)	2	12
6	WE	110/560 (20%)	98 (89%)	8 (7%)	4 (4%)	2	16
6	WF	109/560 (20%)	98 (90%)	8 (7%)	3 (3%)	4	19
6	WG	110/560 (20%)	98 (89%)	10 (9%)	2 (2%)	6	26
6	WH	93/560 (17%)	86 (92%)	5 (5%)	2 (2%)	5	24
6	WI	93/560 (17%)	82 (88%)	5 (5%)	6 (6%)	1	6
6	WJ	97/560 (17%)	89 (92%)	7 (7%)	1 (1%)	12	40
6	WK	96/560 (17%)	84 (88%)	9 (9%)	3 (3%)	3	18
6	WL	81/560 (14%)	75 (93%)	4 (5%)	2 (2%)	4	21
6	WM	78/560 (14%)	72 (92%)	4 (5%)	2 (3%)	4	21
6	WN	80/560 (14%)	75 (94%)	2 (2%)	3 (4%)	2	15
6	WO	94/560 (17%)	85 (90%)	7 (7%)	2 (2%)	5	24
6	WP	98/560 (18%)	87 (89%)	6 (6%)	5 (5%)	1	10
6	WQ	109/560 (20%)	100 (92%)	5 (5%)	4 (4%)	2	16
6	WR	109/560 (20%)	94 (86%)	8 (7%)	7 (6%)	1	7
6	WS	109/560 (20%)	96 (88%)	7 (6%)	6 (6%)	1	9
6	WT	109/560 (20%)	97 (89%)	5 (5%)	7 (6%)	1	7
6	WU	110/560 (20%)	101 (92%)	8 (7%)	1 (1%)	14	42
6	WV	108/560 (19%)	97 (90%)	9 (8%)	2 (2%)	6	26
6	WW	109/560 (20%)	95 (87%)	9 (8%)	5 (5%)	2	12
7	Ab	87/89 (98%)	85 (98%)	2 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	Aq	87/89 (98%)	86 (99%)	1 (1%)	0	100	100
7	Ar	87/89 (98%)	86 (99%)	1 (1%)	0	100	100
7	As	87/89 (98%)	85 (98%)	2 (2%)	0	100	100
8	At	251/264 (95%)	231 (92%)	14 (6%)	6 (2%)	4	22
9	Au	205/245 (84%)	195 (95%)	10 (5%)	0	100	100
9	Av	207/245 (84%)	199 (96%)	6 (3%)	2 (1%)	12	40
9	Aw	206/245 (84%)	201 (98%)	5 (2%)	0	100	100
9	Ax	206/245 (84%)	199 (97%)	6 (3%)	1 (0%)	24	54
9	Ay	207/245 (84%)	201 (97%)	4 (2%)	2 (1%)	12	40
10	A1	87/104 (84%)	87 (100%)	0	0	100	100
10	A2	89/104 (86%)	87 (98%)	2 (2%)	0	100	100
10	A3	89/104 (86%)	89 (100%)	0	0	100	100
10	A4	89/104 (86%)	89 (100%)	0	0	100	100
10	A5	88/104 (85%)	88 (100%)	0	0	100	100
10	Az	55/104 (53%)	53 (96%)	2 (4%)	0	100	100
11	A0	117/138 (85%)	115 (98%)	2 (2%)	0	100	100
11	A6	132/138 (96%)	128 (97%)	4 (3%)	0	100	100
11	A7	115/138 (83%)	114 (99%)	1 (1%)	0	100	100
11	A8	119/138 (86%)	116 (98%)	3 (2%)	0	100	100
11	A9	121/138 (88%)	118 (98%)	3 (2%)	0	100	100
12	BA	131/134 (98%)	123 (94%)	8 (6%)	0	100	100
12	BB	130/134 (97%)	124 (95%)	6 (5%)	0	100	100
12	BC	131/134 (98%)	126 (96%)	5 (4%)	0	100	100
12	BD	131/134 (98%)	127 (97%)	4 (3%)	0	100	100
12	BE	131/134 (98%)	125 (95%)	5 (4%)	1 (1%)	16	44
12	BF	131/134 (98%)	126 (96%)	5 (4%)	0	100	100
All	All	44708/81227 (55%)	43390 (97%)	1126 (2%)	192 (0%)	31	59

All (192) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	2	209	ASN
3	5	209	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	8	209	ASN
3	ZA	209	ASN
3	ZB	164	GLN
3	ZC	139	ALA
4	ZG	46	SER
5	AA	123	GLU
8	At	188	LEU
8	At	190	VAL
9	Ay	83	ALA
6	WO	168	GLU
6	WR	123	ILE
6	WR	165	PHE
6	WR	166	VAL
6	WS	187	ASP
3	9	139	ALA
3	ZB	165	ALA
3	ZB	209	ASN
3	ZC	209	ASN
3	ZD	209	ASN
3	ZE	209	ASN
4	ZI	375	MET
4	ZO	237	ILE
4	ZR	87	ASP
3	AI	165	ALA
3	AL	4	SER
3	AN	127	GLN
8	At	167	ASN
8	At	213	ILE
9	Av	83	ALA
9	Ax	160	GLN
6	WB	148	GLY
6	WB	163	SER
6	WD	146	THR
6	WD	148	GLY
6	WF	118	GLN
6	WI	146	THR
6	WI	160	PRO
6	WI	170	LYS
6	WK	166	VAL
6	WM	148	GLY
6	WN	146	THR
6	WN	148	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	WP	146	THR
6	WQ	146	THR
6	WQ	148	GLY
6	WQ	169	GLN
6	WS	146	THR
6	WT	146	THR
6	WT	162	PRO
6	WW	146	THR
6	WW	148	GLY
3	0	127	GLN
3	2	49	ILE
3	3	49	ILE
3	4	49	ILE
3	4	139	ALA
3	4	140	ILE
3	5	49	ILE
4	ZL	374	ASN
5	AA	151	PRO
3	AF	127	GLN
3	AL	3	SER
3	AM	127	GLN
8	At	189	PRO
6	UI	162	PRO
6	UJ	162	PRO
6	UK	162	PRO
6	UL	162	PRO
6	UM	162	PRO
6	UN	162	PRO
6	UO	162	PRO
6	UP	162	PRO
6	WB	146	THR
6	WB	164	LEU
6	WD	118	GLN
6	WE	160	PRO
6	WE	162	PRO
6	WI	148	GLY
6	WP	148	GLY
6	WS	118	GLN
6	WS	169	GLN
6	WT	165	PHE
6	WW	118	GLN
6	WW	168	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	6	49	ILE
3	6	58	GLU
3	7	49	ILE
3	7	138	PRO
3	8	49	ILE
3	9	49	ILE
3	ZA	49	ILE
3	ZA	139	ALA
3	ZD	139	ALA
4	ZO	142	THR
4	ZP	374	ASN
3	AG	127	GLN
3	AI	127	GLN
3	AK	127	GLN
3	AL	127	GLN
6	UI	163	SER
6	UJ	163	SER
6	UK	163	SER
6	UL	163	SER
6	UM	163	SER
6	UN	163	SER
6	UO	163	SER
6	UP	163	SER
6	WA	182	PRO
6	WB	182	PRO
6	WD	165	PHE
6	WD	182	PRO
6	WE	182	PRO
6	WF	182	PRO
6	WG	182	PRO
6	WH	165	PHE
6	WH	182	PRO
6	WI	169	GLN
6	WI	182	PRO
6	WJ	182	PRO
6	WK	182	PRO
6	WL	182	PRO
6	WM	182	PRO
6	WN	182	PRO
6	WO	182	PRO
6	WP	182	PRO
6	WQ	182	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	WR	112	GLY
6	WR	182	PRO
6	WS	182	PRO
6	WT	182	PRO
6	WU	182	PRO
6	WV	148	GLY
6	WV	182	PRO
6	WW	182	PRO
1	A	172	ASN
1	B	172	ASN
1	C	172	ASN
1	D	172	ASN
1	E	172	ASN
1	F	172	ASN
1	G	172	ASN
1	H	172	ASN
1	I	172	ASN
1	J	172	ASN
1	K	172	ASN
1	L	172	ASN
1	M	172	ASN
1	N	172	ASN
1	O	172	ASN
1	P	172	ASN
1	Q	172	ASN
1	R	172	ASN
1	S	172	ASN
1	T	172	ASN
1	U	172	ASN
1	V	172	ASN
1	W	172	ASN
1	X	172	ASN
1	Y	172	ASN
1	Z	172	ASN
3	1	127	GLN
3	7	210	GLY
3	AH	127	GLN
3	AJ	127	GLN
9	Av	162	PRO
6	WK	168	GLU
6	WR	121	PHE
6	WT	163	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	3	139	ALA
4	ZO	375	MET
8	At	187	ALA
6	WC	182	PRO
6	WE	221	THR
6	WG	163	SER
12	BE	58	ALA
4	ZI	325	GLY
5	AA	149	GLY
5	AE	132	GLY
6	WA	160	PRO
6	WF	162	PRO
6	WL	148	GLY
6	WS	148	GLY
6	WT	148	GLY
6	WA	148	GLY
6	WP	123	ILE
6	WR	148	GLY
9	Ay	229	VAL
6	WP	160	PRO
6	WT	161	LYS
3	ZC	138	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	B	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	C	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	D	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	E	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	F	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	G	170/186 (91%)	169 (99%)	1 (1%)	78	80

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	H	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	I	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	J	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	K	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	L	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	M	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	N	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	O	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	P	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	Q	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	R	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	S	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	T	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	U	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	V	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	W	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	X	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	Y	170/186 (91%)	169 (99%)	1 (1%)	78	80
1	Z	170/186 (91%)	169 (99%)	1 (1%)	78	80
2	a	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	b	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	c	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	d	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	e	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	f	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	g	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	h	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	i	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	j	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	k	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	l	248/294 (84%)	245 (99%)	3 (1%)	63	72

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	m	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	n	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	o	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	p	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	q	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	r	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	s	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	t	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	u	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	v	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	w	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	x	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	y	248/294 (84%)	245 (99%)	3 (1%)	63	72
2	z	248/294 (84%)	245 (99%)	3 (1%)	63	72
3	0	205/215 (95%)	200 (98%)	5 (2%)	43	62
3	1	209/215 (97%)	206 (99%)	3 (1%)	59	70
3	2	215/215 (100%)	214 (100%)	1 (0%)	81	81
3	3	215/215 (100%)	213 (99%)	2 (1%)	70	76
3	4	215/215 (100%)	214 (100%)	1 (0%)	81	81
3	5	215/215 (100%)	213 (99%)	2 (1%)	70	76
3	6	215/215 (100%)	212 (99%)	3 (1%)	59	70
3	7	215/215 (100%)	215 (100%)	0	100	100
3	8	215/215 (100%)	212 (99%)	3 (1%)	59	70
3	9	215/215 (100%)	212 (99%)	3 (1%)	59	70
3	AF	209/215 (97%)	206 (99%)	3 (1%)	59	70
3	AG	210/215 (98%)	203 (97%)	7 (3%)	33	57
3	AH	211/215 (98%)	206 (98%)	5 (2%)	43	62
3	AI	209/215 (97%)	205 (98%)	4 (2%)	50	66
3	AJ	210/215 (98%)	208 (99%)	2 (1%)	68	75
3	AK	200/215 (93%)	199 (100%)	1 (0%)	81	81
3	AL	205/215 (95%)	203 (99%)	2 (1%)	68	75

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	AM	205/215 (95%)	200 (98%)	5 (2%)	43	62
3	AN	205/215 (95%)	201 (98%)	4 (2%)	48	65
3	ZA	215/215 (100%)	214 (100%)	1 (0%)	81	81
3	ZB	215/215 (100%)	211 (98%)	4 (2%)	50	66
3	ZC	215/215 (100%)	212 (99%)	3 (1%)	59	70
3	ZD	215/215 (100%)	213 (99%)	2 (1%)	70	76
3	ZE	215/215 (100%)	214 (100%)	1 (0%)	81	81
4	ZF	321/323 (99%)	315 (98%)	6 (2%)	50	66
4	ZG	321/323 (99%)	316 (98%)	5 (2%)	55	68
4	ZH	321/323 (99%)	316 (98%)	5 (2%)	55	68
4	ZI	321/323 (99%)	316 (98%)	5 (2%)	55	68
4	ZJ	321/323 (99%)	320 (100%)	1 (0%)	86	84
4	ZK	321/323 (99%)	320 (100%)	1 (0%)	86	84
4	ZL	321/323 (99%)	318 (99%)	3 (1%)	70	76
4	ZM	321/323 (99%)	318 (99%)	3 (1%)	70	76
4	ZN	321/323 (99%)	319 (99%)	2 (1%)	78	80
4	ZO	321/323 (99%)	318 (99%)	3 (1%)	70	76
4	ZP	321/323 (99%)	317 (99%)	4 (1%)	63	72
4	ZQ	321/323 (99%)	318 (99%)	3 (1%)	70	76
4	ZR	321/323 (99%)	318 (99%)	3 (1%)	70	76
4	ZS	321/323 (99%)	320 (100%)	1 (0%)	86	84
4	ZT	321/323 (99%)	320 (100%)	1 (0%)	86	84
4	ZU	321/323 (99%)	319 (99%)	2 (1%)	78	80
4	ZV	321/323 (99%)	319 (99%)	2 (1%)	78	80
4	ZW	321/323 (99%)	320 (100%)	1 (0%)	86	84
4	ZX	321/323 (99%)	319 (99%)	2 (1%)	78	80
4	ZY	321/323 (99%)	321 (100%)	0	100	100
4	ZZ	321/323 (99%)	321 (100%)	0	100	100
4	Za	321/323 (99%)	321 (100%)	0	100	100
4	Zb	321/323 (99%)	318 (99%)	3 (1%)	70	76
4	Zc	321/323 (99%)	318 (99%)	3 (1%)	70	76

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	Zd	321/323 (99%)	320 (100%)	1 (0%)	86	84
4	Ze	321/323 (99%)	319 (99%)	2 (1%)	78	80
4	Zf	321/323 (99%)	319 (99%)	2 (1%)	78	80
4	Zg	321/323 (99%)	320 (100%)	1 (0%)	86	84
4	Zh	321/323 (99%)	320 (100%)	1 (0%)	86	84
5	AA	190/193 (98%)	185 (97%)	5 (3%)	40	61
5	AB	191/193 (99%)	188 (98%)	3 (2%)	55	68
5	AC	192/193 (100%)	189 (98%)	3 (2%)	55	68
5	AD	192/193 (100%)	192 (100%)	0	100	100
5	AE	191/193 (99%)	190 (100%)	1 (0%)	81	81
6	AO	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	AP	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	AQ	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	AR	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	AS	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	AT	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	AU	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	AV	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	AW	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	AX	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	AY	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	AZ	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Aa	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Ac	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Ad	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Ae	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Af	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Ag	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Ah	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Ai	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Aj	141/467 (30%)	140 (99%)	1 (1%)	76	78

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	Ak	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Al	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Am	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	An	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Ao	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	Ap	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	BG	8/467 (2%)	8 (100%)	0	100	100
6	BH	11/467 (2%)	11 (100%)	0	100	100
6	BI	14/467 (3%)	12 (86%)	2 (14%)	3	13
6	BJ	11/467 (2%)	11 (100%)	0	100	100
6	BK	15/467 (3%)	15 (100%)	0	100	100
6	BL	11/467 (2%)	11 (100%)	0	100	100
6	BM	15/467 (3%)	15 (100%)	0	100	100
6	BN	11/467 (2%)	11 (100%)	0	100	100
6	BO	14/467 (3%)	13 (93%)	1 (7%)	13	39
6	BP	11/467 (2%)	11 (100%)	0	100	100
6	BQ	15/467 (3%)	15 (100%)	0	100	100
6	BR	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	BS	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	BT	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	BU	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	BV	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	BW	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	BX	141/467 (30%)	140 (99%)	1 (1%)	76	78
6	UI	128/467 (27%)	122 (95%)	6 (5%)	23	50
6	UJ	128/467 (27%)	121 (94%)	7 (6%)	19	46
6	UK	128/467 (27%)	122 (95%)	6 (5%)	23	50
6	UL	128/467 (27%)	122 (95%)	6 (5%)	23	50
6	UM	128/467 (27%)	122 (95%)	6 (5%)	23	50
6	UN	128/467 (27%)	122 (95%)	6 (5%)	23	50
6	UO	128/467 (27%)	122 (95%)	6 (5%)	23	50

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	UP	128/467 (27%)	121 (94%)	7 (6%)	19	46
6	WA	95/467 (20%)	91 (96%)	4 (4%)	26	52
6	WB	93/467 (20%)	86 (92%)	7 (8%)	12	38
6	WC	91/467 (20%)	83 (91%)	8 (9%)	9	31
6	WD	92/467 (20%)	88 (96%)	4 (4%)	26	51
6	WE	94/467 (20%)	87 (93%)	7 (7%)	13	38
6	WF	93/467 (20%)	84 (90%)	9 (10%)	8	28
6	WG	94/467 (20%)	85 (90%)	9 (10%)	8	28
6	WH	79/467 (17%)	75 (95%)	4 (5%)	21	48
6	WI	79/467 (17%)	75 (95%)	4 (5%)	21	48
6	WJ	83/467 (18%)	80 (96%)	3 (4%)	31	56
6	WK	82/467 (18%)	76 (93%)	6 (7%)	13	39
6	WL	69/467 (15%)	67 (97%)	2 (3%)	37	60
6	WM	66/467 (14%)	64 (97%)	2 (3%)	36	59
6	WN	68/467 (15%)	66 (97%)	2 (3%)	37	60
6	WO	80/467 (17%)	76 (95%)	4 (5%)	22	49
6	WP	83/467 (18%)	80 (96%)	3 (4%)	31	56
6	WQ	93/467 (20%)	90 (97%)	3 (3%)	34	58
6	WR	93/467 (20%)	85 (91%)	8 (9%)	10	33
6	WS	93/467 (20%)	89 (96%)	4 (4%)	26	51
6	WT	93/467 (20%)	86 (92%)	7 (8%)	12	38
6	WU	94/467 (20%)	88 (94%)	6 (6%)	16	42
6	WV	92/467 (20%)	81 (88%)	11 (12%)	5	19
6	WW	93/467 (20%)	85 (91%)	8 (9%)	10	33
7	Ab	74/74 (100%)	72 (97%)	2 (3%)	39	60
7	Aq	74/74 (100%)	74 (100%)	0	100	100
7	Ar	74/74 (100%)	74 (100%)	0	100	100
7	As	74/74 (100%)	72 (97%)	2 (3%)	39	60
8	At	210/221 (95%)	208 (99%)	2 (1%)	68	75
9	Au	177/204 (87%)	175 (99%)	2 (1%)	65	74
9	Av	179/204 (88%)	173 (97%)	6 (3%)	32	57

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	Aw	178/204 (87%)	176 (99%)	2 (1%)	65	74
9	Ax	178/204 (87%)	176 (99%)	2 (1%)	65	74
9	Ay	179/204 (88%)	178 (99%)	1 (1%)	78	80
10	A1	68/79 (86%)	67 (98%)	1 (2%)	57	69
10	A2	70/79 (89%)	68 (97%)	2 (3%)	37	60
10	A3	70/79 (89%)	67 (96%)	3 (4%)	26	51
10	A4	70/79 (89%)	68 (97%)	2 (3%)	37	60
10	A5	69/79 (87%)	65 (94%)	4 (6%)	18	45
10	Az	45/79 (57%)	43 (96%)	2 (4%)	25	51
11	A0	102/113 (90%)	100 (98%)	2 (2%)	48	65
11	A6	110/113 (97%)	109 (99%)	1 (1%)	70	76
11	A7	101/113 (89%)	99 (98%)	2 (2%)	48	65
11	A8	103/113 (91%)	99 (96%)	4 (4%)	28	53
11	A9	104/113 (92%)	103 (99%)	1 (1%)	68	75
12	BA	104/105 (99%)	104 (100%)	0	100	100
12	BB	104/105 (99%)	104 (100%)	0	100	100
12	BC	104/105 (99%)	104 (100%)	0	100	100
12	BD	104/105 (99%)	103 (99%)	1 (1%)	68	75
12	BE	104/105 (99%)	102 (98%)	2 (2%)	50	66
12	BF	104/105 (99%)	104 (100%)	0	100	100
All	All	37085/66670 (56%)	36578 (99%)	507 (1%)	57	70

All (507) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	106	PHE
1	B	106	PHE
1	C	106	PHE
1	D	106	PHE
1	E	106	PHE
1	F	106	PHE
1	G	106	PHE
1	H	106	PHE
1	I	106	PHE
1	J	106	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	106	PHE
1	L	106	PHE
1	M	106	PHE
1	N	106	PHE
1	O	106	PHE
1	P	106	PHE
1	Q	106	PHE
1	R	106	PHE
1	S	106	PHE
1	T	106	PHE
1	U	106	PHE
1	V	106	PHE
1	W	106	PHE
1	X	106	PHE
1	Y	106	PHE
1	Z	106	PHE
2	a	129	VAL
2	a	214	THR
2	a	324	SER
2	b	129	VAL
2	b	214	THR
2	b	324	SER
2	c	129	VAL
2	c	214	THR
2	c	324	SER
2	d	129	VAL
2	d	214	THR
2	d	324	SER
2	e	129	VAL
2	e	214	THR
2	e	324	SER
2	f	129	VAL
2	f	214	THR
2	f	324	SER
2	g	129	VAL
2	g	214	THR
2	g	324	SER
2	h	129	VAL
2	h	214	THR
2	h	324	SER
2	i	129	VAL
2	i	214	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	i	324	SER
2	j	129	VAL
2	j	214	THR
2	j	324	SER
2	k	129	VAL
2	k	214	THR
2	k	324	SER
2	l	129	VAL
2	l	214	THR
2	l	324	SER
2	m	129	VAL
2	m	214	THR
2	m	324	SER
2	n	129	VAL
2	n	214	THR
2	n	324	SER
2	o	129	VAL
2	o	214	THR
2	o	324	SER
2	p	129	VAL
2	p	214	THR
2	p	324	SER
2	q	129	VAL
2	q	214	THR
2	q	324	SER
2	r	129	VAL
2	r	214	THR
2	r	324	SER
2	s	129	VAL
2	s	214	THR
2	s	324	SER
2	t	129	VAL
2	t	214	THR
2	t	324	SER
2	u	129	VAL
2	u	214	THR
2	u	324	SER
2	v	129	VAL
2	v	214	THR
2	v	324	SER
2	w	129	VAL
2	w	214	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	w	324	SER
2	x	129	VAL
2	x	214	THR
2	x	324	SER
2	y	129	VAL
2	y	214	THR
2	y	324	SER
2	z	129	VAL
2	z	214	THR
2	z	324	SER
3	0	1	MET
3	0	36	ARG
3	0	50	ARG
3	0	52	PRO
3	0	73	ARG
3	1	1	MET
3	1	42	GLU
3	1	241	GLU
3	2	238	ARG
3	3	43	ASP
3	3	153	ARG
3	4	209	ASN
3	5	137	GLN
3	5	245	LYS
3	6	59	GLN
3	6	78	GLU
3	6	203	GLU
3	8	58	GLU
3	8	75	VAL
3	8	100	GLN
3	9	66	LEU
3	9	137	GLN
3	9	226	VAL
3	ZA	136	VAL
3	ZB	58	GLU
3	ZB	95	VAL
3	ZB	100	GLN
3	ZB	137	GLN
3	ZC	1	MET
3	ZC	43	ASP
3	ZC	136	VAL
3	ZD	136	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	ZD	196	GLN
3	ZE	141	THR
4	ZF	60	ASP
4	ZF	134	PRO
4	ZF	154	MET
4	ZF	229	THR
4	ZF	352	ASN
4	ZF	355	LYS
4	ZG	3	PHE
4	ZG	234	GLU
4	ZG	296	ASN
4	ZG	332	ASN
4	ZG	397	ASN
4	ZH	42	MET
4	ZH	128	ILE
4	ZH	288	ASP
4	ZH	355	LYS
4	ZH	399	LEU
4	ZI	52	VAL
4	ZI	99	GLN
4	ZI	105	ASN
4	ZI	246	ILE
4	ZI	352	ASN
4	ZJ	42	MET
4	ZK	338	GLN
4	ZL	338	GLN
4	ZL	368	LEU
4	ZL	370	LYS
4	ZM	89	ASN
4	ZM	156	ILE
4	ZM	369	SER
4	ZN	396	LEU
4	ZN	402	LEU
4	ZO	141	ASN
4	ZO	235	ASN
4	ZO	237	ILE
4	ZP	288	ASP
4	ZP	333	VAL
4	ZP	369	SER
4	ZP	370	LYS
4	ZQ	331	ASP
4	ZQ	367	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	ZQ	370	LYS
4	ZR	255	THR
4	ZR	269	GLN
4	ZR	331	ASP
4	ZS	367	ASP
4	ZT	42	MET
4	ZU	237	ILE
4	ZU	337	THR
4	ZV	397	ASN
4	ZV	399	LEU
4	ZW	114	MET
4	ZX	63	ASP
4	ZX	355	LYS
4	Zb	36	THR
4	Zb	331	ASP
4	Zb	367	ASP
4	Zc	369	SER
4	Zc	370	LYS
4	Zc	399	LEU
4	Zd	397	ASN
4	Ze	58	THR
4	Ze	395	ILE
4	Zf	395	ILE
4	Zf	396	LEU
4	Zg	375	MET
4	Zh	54	VAL
5	AA	37	GLN
5	AA	39	ASN
5	AA	126	PRO
5	AA	150	ASP
5	AA	247	LEU
5	AB	9	MET
5	AB	70	GLN
5	AB	201	ILE
5	AC	70	GLN
5	AC	71	LEU
5	AC	184	GLU
5	AE	163	LEU
3	AF	36	ARG
3	AF	106	MET
3	AF	256	LYS
3	AG	16	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AG	17	THR
3	AG	137	GLN
3	AG	169	GLN
3	AG	170	VAL
3	AG	251	ASP
3	AG	257	LEU
3	AH	1	MET
3	AH	66	LEU
3	AH	75	VAL
3	AH	100	GLN
3	AH	135	GLN
3	AI	4	SER
3	AI	179	MET
3	AI	194	GLU
3	AI	208	LEU
3	AJ	73	ARG
3	AJ	127	GLN
3	AK	4	SER
3	AL	1	MET
3	AL	137	GLN
3	AM	1	MET
3	AM	36	ARG
3	AM	50	ARG
3	AM	208	LEU
3	AM	209	ASN
3	AN	1	MET
3	AN	3	SER
3	AN	179	MET
3	AN	252	GLN
6	AR	295	SER
6	AS	295	SER
6	AT	295	SER
6	AU	295	SER
6	AV	295	SER
6	AW	295	SER
6	AX	295	SER
6	AY	295	SER
6	AZ	295	SER
6	Aa	295	SER
7	Ab	7	MET
7	Ab	15	LYS
6	Ac	295	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	Ad	295	SER
6	Ae	295	SER
6	Af	295	SER
6	Ag	295	SER
6	Ah	295	SER
6	Ai	295	SER
6	Aj	295	SER
6	Ak	295	SER
6	Al	295	SER
6	Am	295	SER
6	An	295	SER
6	Ao	295	SER
6	Ap	295	SER
6	AO	295	SER
6	AP	295	SER
6	AQ	295	SER
7	As	9	MET
7	As	14	MET
8	At	185	MET
8	At	214	PHE
9	Au	123	MET
9	Au	160	GLN
9	Av	48	ILE
9	Av	140	ARG
9	Av	160	GLN
9	Av	162	PRO
9	Av	189	ILE
9	Av	209	MET
9	Aw	143	ARG
9	Aw	152	ARG
9	Ax	187	PHE
9	Ax	241	GLN
9	Ay	230	ASP
10	Az	15	GLN
10	Az	19	MET
10	A1	15	GLN
10	A2	7	ILE
10	A2	11	ILE
10	A3	15	GLN
10	A3	19	MET
10	A3	97	GLN
10	A4	15	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	A4	19	MET
10	A5	15	GLN
10	A5	19	MET
10	A5	57	GLU
10	A5	91	LYS
11	A6	101	ASP
11	A7	47	SER
11	A7	55	ARG
11	A8	65	LEU
11	A8	69	SER
11	A8	71	HIS
11	A8	72	HIS
11	A9	76	GLN
11	A0	65	LEU
11	A0	104	ARG
6	UI	98	LEU
6	UI	127	SER
6	UI	154	ARG
6	UI	159	MET
6	UI	165	PHE
6	UI	219	LEU
6	UJ	98	LEU
6	UJ	103	GLN
6	UJ	127	SER
6	UJ	154	ARG
6	UJ	159	MET
6	UJ	165	PHE
6	UJ	268	LEU
6	UK	98	LEU
6	UK	127	SER
6	UK	154	ARG
6	UK	159	MET
6	UK	165	PHE
6	UK	219	LEU
6	UL	98	LEU
6	UL	127	SER
6	UL	154	ARG
6	UL	159	MET
6	UL	167	ARG
6	UL	219	LEU
6	UM	98	LEU
6	UM	127	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	UM	154	ARG
6	UM	159	MET
6	UM	165	PHE
6	UM	219	LEU
6	UN	98	LEU
6	UN	127	SER
6	UN	154	ARG
6	UN	159	MET
6	UN	165	PHE
6	UN	219	LEU
6	UO	98	LEU
6	UO	127	SER
6	UO	154	ARG
6	UO	159	MET
6	UO	165	PHE
6	UO	219	LEU
6	UP	98	LEU
6	UP	127	SER
6	UP	154	ARG
6	UP	159	MET
6	UP	165	PHE
6	UP	167	ARG
6	UP	219	LEU
6	WA	114	GLU
6	WA	123	ILE
6	WA	167	ARG
6	WA	170	LYS
6	WB	119	GLU
6	WB	120	LYS
6	WB	137	GLU
6	WB	159	MET
6	WB	164	LEU
6	WB	166	VAL
6	WB	169	GLN
6	WC	115	LEU
6	WC	120	LYS
6	WC	128	GLU
6	WC	134	ARG
6	WC	164	LEU
6	WC	166	VAL
6	WC	168	GLU
6	WC	170	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	WD	114	GLU
6	WD	115	LEU
6	WD	159	MET
6	WD	167	ARG
6	WE	114	GLU
6	WE	123	ILE
6	WE	128	GLU
6	WE	134	ARG
6	WE	160	PRO
6	WE	161	LYS
6	WE	164	LEU
6	WF	111	VAL
6	WF	113	PHE
6	WF	123	ILE
6	WF	134	ARG
6	WF	142	ARG
6	WF	159	MET
6	WF	161	LYS
6	WF	162	PRO
6	WF	166	VAL
6	WG	111	VAL
6	WG	114	GLU
6	WG	115	LEU
6	WG	120	LYS
6	WG	129	GLN
6	WG	134	ARG
6	WG	164	LEU
6	WG	170	LYS
6	WG	190	GLN
6	WH	134	ARG
6	WH	159	MET
6	WH	168	GLU
6	WH	221	THR
6	WI	165	PHE
6	WI	168	GLU
6	WI	169	GLN
6	WI	170	LYS
6	WJ	123	ILE
6	WJ	167	ARG
6	WJ	169	GLN
6	WK	129	GLN
6	WK	164	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	WK	165	PHE
6	WK	167	ARG
6	WK	170	LYS
6	WK	187	ASP
6	WL	159	MET
6	WL	221	THR
6	WM	159	MET
6	WM	221	THR
6	WN	159	MET
6	WN	221	THR
6	WO	159	MET
6	WO	169	GLN
6	WO	170	LYS
6	WO	221	THR
6	WP	154	ARG
6	WP	161	LYS
6	WP	165	PHE
6	WQ	114	GLU
6	WQ	134	ARG
6	WQ	159	MET
6	WR	114	GLU
6	WR	117	ASP
6	WR	128	GLU
6	WR	129	GLN
6	WR	164	LEU
6	WR	166	VAL
6	WR	169	GLN
6	WR	170	LYS
6	WS	114	GLU
6	WS	134	ARG
6	WS	159	MET
6	WS	221	THR
6	WT	119	GLU
6	WT	123	ILE
6	WT	134	ARG
6	WT	159	MET
6	WT	161	LYS
6	WT	165	PHE
6	WT	167	ARG
6	WU	114	GLU
6	WU	123	ILE
6	WU	134	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	WU	159	MET
6	WU	161	LYS
6	WU	164	LEU
6	WV	114	GLU
6	WV	115	LEU
6	WV	120	LYS
6	WV	128	GLU
6	WV	129	GLN
6	WV	134	ARG
6	WV	164	LEU
6	WV	166	VAL
6	WV	169	GLN
6	WV	170	LYS
6	WV	187	ASP
6	WW	114	GLU
6	WW	115	LEU
6	WW	134	ARG
6	WW	159	MET
6	WW	167	ARG
6	WW	168	GLU
6	WW	169	GLN
6	WW	221	THR
12	BD	101	GLU
12	BE	6	ILE
12	BE	127	LEU
6	BI	318	ASN
6	BI	319	GLN
6	BO	319	GLN
6	BR	295	SER
6	BS	295	SER
6	BT	295	SER
6	BU	295	SER
6	BV	295	SER
6	BW	295	SER
6	BX	295	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1474) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	59	ASN
1	A	63	GLN
1	A	85	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	130	ASN
1	A	142	ASN
1	A	160	ASN
1	A	173	GLN
1	A	185	ASN
1	A	217	GLN
1	B	59	ASN
1	B	63	GLN
1	B	85	ASN
1	B	130	ASN
1	B	160	ASN
1	B	173	GLN
1	B	185	ASN
1	B	217	GLN
1	C	59	ASN
1	C	63	GLN
1	C	85	ASN
1	C	130	ASN
1	C	160	ASN
1	C	173	GLN
1	C	185	ASN
1	C	217	GLN
1	D	59	ASN
1	D	63	GLN
1	D	130	ASN
1	D	160	ASN
1	D	173	GLN
1	D	185	ASN
1	D	217	GLN
1	E	59	ASN
1	E	63	GLN
1	E	85	ASN
1	E	130	ASN
1	E	160	ASN
1	E	173	GLN
1	E	185	ASN
1	E	217	GLN
1	F	38	GLN
1	F	59	ASN
1	F	63	GLN
1	F	85	ASN
1	F	130	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	F	160	ASN
1	F	173	GLN
1	F	185	ASN
1	F	217	GLN
1	G	38	GLN
1	G	59	ASN
1	G	63	GLN
1	G	85	ASN
1	G	130	ASN
1	G	160	ASN
1	G	173	GLN
1	G	185	ASN
1	G	217	GLN
1	H	38	GLN
1	H	59	ASN
1	H	63	GLN
1	H	85	ASN
1	H	130	ASN
1	H	160	ASN
1	H	173	GLN
1	H	185	ASN
1	H	217	GLN
1	I	59	ASN
1	I	63	GLN
1	I	83	GLN
1	I	85	ASN
1	I	130	ASN
1	I	160	ASN
1	I	173	GLN
1	I	185	ASN
1	I	217	GLN
1	J	38	GLN
1	J	59	ASN
1	J	63	GLN
1	J	85	ASN
1	J	130	ASN
1	J	160	ASN
1	J	173	GLN
1	J	185	ASN
1	J	217	GLN
1	K	38	GLN
1	K	59	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	63	GLN
1	K	85	ASN
1	K	130	ASN
1	K	160	ASN
1	K	173	GLN
1	K	185	ASN
1	K	217	GLN
1	L	38	GLN
1	L	59	ASN
1	L	63	GLN
1	L	85	ASN
1	L	130	ASN
1	L	160	ASN
1	L	173	GLN
1	L	185	ASN
1	L	217	GLN
1	L	228	ASN
1	M	59	ASN
1	M	63	GLN
1	M	85	ASN
1	M	130	ASN
1	M	160	ASN
1	M	173	GLN
1	M	185	ASN
1	M	217	GLN
1	N	59	ASN
1	N	63	GLN
1	N	85	ASN
1	N	130	ASN
1	N	160	ASN
1	N	173	GLN
1	N	185	ASN
1	N	217	GLN
1	O	38	GLN
1	O	59	ASN
1	O	63	GLN
1	O	85	ASN
1	O	130	ASN
1	O	160	ASN
1	O	173	GLN
1	O	185	ASN
1	O	217	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	P	59	ASN
1	P	63	GLN
1	P	85	ASN
1	P	130	ASN
1	P	160	ASN
1	P	173	GLN
1	P	185	ASN
1	P	217	GLN
1	Q	59	ASN
1	Q	63	GLN
1	Q	85	ASN
1	Q	130	ASN
1	Q	160	ASN
1	Q	173	GLN
1	Q	185	ASN
1	Q	217	GLN
1	R	59	ASN
1	R	63	GLN
1	R	85	ASN
1	R	130	ASN
1	R	160	ASN
1	R	173	GLN
1	R	185	ASN
1	R	217	GLN
1	S	59	ASN
1	S	63	GLN
1	S	85	ASN
1	S	130	ASN
1	S	160	ASN
1	S	173	GLN
1	S	185	ASN
1	S	217	GLN
1	T	59	ASN
1	T	63	GLN
1	T	85	ASN
1	T	130	ASN
1	T	160	ASN
1	T	173	GLN
1	T	185	ASN
1	T	217	GLN
1	U	59	ASN
1	U	63	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	U	130	ASN
1	U	160	ASN
1	U	173	GLN
1	U	185	ASN
1	U	217	GLN
1	V	59	ASN
1	V	63	GLN
1	V	85	ASN
1	V	130	ASN
1	V	160	ASN
1	V	173	GLN
1	V	185	ASN
1	V	217	GLN
1	W	59	ASN
1	W	63	GLN
1	W	85	ASN
1	W	130	ASN
1	W	142	ASN
1	W	160	ASN
1	W	173	GLN
1	W	185	ASN
1	W	217	GLN
1	X	59	ASN
1	X	63	GLN
1	X	85	ASN
1	X	130	ASN
1	X	160	ASN
1	X	173	GLN
1	X	185	ASN
1	X	217	GLN
1	Y	59	ASN
1	Y	63	GLN
1	Y	85	ASN
1	Y	130	ASN
1	Y	160	ASN
1	Y	173	GLN
1	Y	185	ASN
1	Y	217	GLN
1	Z	59	ASN
1	Z	63	GLN
1	Z	85	ASN
1	Z	130	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Z	160	ASN
1	Z	173	GLN
1	Z	185	ASN
1	Z	217	GLN
2	a	68	GLN
2	a	80	GLN
2	a	83	ASN
2	a	138	GLN
2	a	159	GLN
2	a	161	ASN
2	a	178	GLN
2	a	188	GLN
2	a	198	GLN
2	a	229	ASN
2	a	241	ASN
2	a	249	GLN
2	a	256	ASN
2	b	51	GLN
2	b	68	GLN
2	b	83	ASN
2	b	138	GLN
2	b	159	GLN
2	b	161	ASN
2	b	178	GLN
2	b	188	GLN
2	b	198	GLN
2	b	229	ASN
2	b	241	ASN
2	b	249	GLN
2	b	256	ASN
2	c	51	GLN
2	c	68	GLN
2	c	80	GLN
2	c	83	ASN
2	c	138	GLN
2	c	159	GLN
2	c	161	ASN
2	c	178	GLN
2	c	188	GLN
2	c	198	GLN
2	c	229	ASN
2	c	241	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	c	249	GLN
2	c	256	ASN
2	d	51	GLN
2	d	68	GLN
2	d	80	GLN
2	d	83	ASN
2	d	138	GLN
2	d	159	GLN
2	d	161	ASN
2	d	178	GLN
2	d	188	GLN
2	d	198	GLN
2	d	229	ASN
2	d	241	ASN
2	d	249	GLN
2	d	256	ASN
2	e	51	GLN
2	e	68	GLN
2	e	83	ASN
2	e	138	GLN
2	e	159	GLN
2	e	161	ASN
2	e	178	GLN
2	e	188	GLN
2	e	198	GLN
2	e	229	ASN
2	e	241	ASN
2	e	249	GLN
2	e	256	ASN
2	f	51	GLN
2	f	68	GLN
2	f	83	ASN
2	f	138	GLN
2	f	159	GLN
2	f	161	ASN
2	f	178	GLN
2	f	188	GLN
2	f	198	GLN
2	f	229	ASN
2	f	241	ASN
2	f	249	GLN
2	f	256	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	g	51	GLN
2	g	68	GLN
2	g	80	GLN
2	g	83	ASN
2	g	138	GLN
2	g	159	GLN
2	g	161	ASN
2	g	178	GLN
2	g	188	GLN
2	g	198	GLN
2	g	229	ASN
2	g	241	ASN
2	g	249	GLN
2	g	256	ASN
2	h	51	GLN
2	h	68	GLN
2	h	83	ASN
2	h	138	GLN
2	h	159	GLN
2	h	161	ASN
2	h	178	GLN
2	h	188	GLN
2	h	198	GLN
2	h	229	ASN
2	h	241	ASN
2	h	249	GLN
2	h	256	ASN
2	i	51	GLN
2	i	68	GLN
2	i	83	ASN
2	i	138	GLN
2	i	159	GLN
2	i	161	ASN
2	i	178	GLN
2	i	188	GLN
2	i	198	GLN
2	i	229	ASN
2	i	241	ASN
2	i	249	GLN
2	i	256	ASN
2	j	51	GLN
2	j	54	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	j	68	GLN
2	j	83	ASN
2	j	138	GLN
2	j	159	GLN
2	j	161	ASN
2	j	178	GLN
2	j	188	GLN
2	j	198	GLN
2	j	229	ASN
2	j	241	ASN
2	j	249	GLN
2	j	256	ASN
2	k	51	GLN
2	k	68	GLN
2	k	83	ASN
2	k	138	GLN
2	k	159	GLN
2	k	161	ASN
2	k	178	GLN
2	k	188	GLN
2	k	198	GLN
2	k	229	ASN
2	k	249	GLN
2	k	256	ASN
2	l	51	GLN
2	l	54	GLN
2	l	68	GLN
2	l	80	GLN
2	l	83	ASN
2	l	138	GLN
2	l	159	GLN
2	l	161	ASN
2	l	178	GLN
2	l	188	GLN
2	l	198	GLN
2	l	229	ASN
2	l	241	ASN
2	l	249	GLN
2	l	256	ASN
2	m	51	GLN
2	m	54	GLN
2	m	68	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	m	80	GLN
2	m	83	ASN
2	m	138	GLN
2	m	140	ASN
2	m	159	GLN
2	m	161	ASN
2	m	178	GLN
2	m	188	GLN
2	m	198	GLN
2	m	229	ASN
2	m	241	ASN
2	m	249	GLN
2	m	256	ASN
2	n	51	GLN
2	n	68	GLN
2	n	80	GLN
2	n	83	ASN
2	n	138	GLN
2	n	159	GLN
2	n	161	ASN
2	n	178	GLN
2	n	188	GLN
2	n	198	GLN
2	n	229	ASN
2	n	241	ASN
2	n	249	GLN
2	n	256	ASN
2	o	51	GLN
2	o	68	GLN
2	o	78	ASN
2	o	83	ASN
2	o	138	GLN
2	o	140	ASN
2	o	159	GLN
2	o	161	ASN
2	o	178	GLN
2	o	188	GLN
2	o	198	GLN
2	o	229	ASN
2	o	241	ASN
2	o	249	GLN
2	o	256	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	p	51	GLN
2	p	68	GLN
2	p	80	GLN
2	p	83	ASN
2	p	138	GLN
2	p	159	GLN
2	p	161	ASN
2	p	178	GLN
2	p	188	GLN
2	p	198	GLN
2	p	229	ASN
2	p	241	ASN
2	p	249	GLN
2	p	256	ASN
2	q	51	GLN
2	q	68	GLN
2	q	80	GLN
2	q	83	ASN
2	q	138	GLN
2	q	159	GLN
2	q	161	ASN
2	q	178	GLN
2	q	188	GLN
2	q	198	GLN
2	q	229	ASN
2	q	241	ASN
2	q	249	GLN
2	q	256	ASN
2	r	51	GLN
2	r	68	GLN
2	r	80	GLN
2	r	83	ASN
2	r	138	GLN
2	r	159	GLN
2	r	161	ASN
2	r	178	GLN
2	r	188	GLN
2	r	198	GLN
2	r	229	ASN
2	r	241	ASN
2	r	249	GLN
2	r	256	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	s	51	GLN
2	s	54	GLN
2	s	68	GLN
2	s	83	ASN
2	s	138	GLN
2	s	159	GLN
2	s	161	ASN
2	s	178	GLN
2	s	188	GLN
2	s	198	GLN
2	s	229	ASN
2	s	241	ASN
2	s	249	GLN
2	s	256	ASN
2	t	51	GLN
2	t	68	GLN
2	t	83	ASN
2	t	138	GLN
2	t	159	GLN
2	t	161	ASN
2	t	178	GLN
2	t	188	GLN
2	t	198	GLN
2	t	229	ASN
2	t	241	ASN
2	t	249	GLN
2	t	256	ASN
2	u	51	GLN
2	u	68	GLN
2	u	80	GLN
2	u	83	ASN
2	u	138	GLN
2	u	159	GLN
2	u	161	ASN
2	u	178	GLN
2	u	188	GLN
2	u	198	GLN
2	u	229	ASN
2	u	241	ASN
2	u	249	GLN
2	u	256	ASN
2	v	51	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	v	54	GLN
2	v	68	GLN
2	v	80	GLN
2	v	83	ASN
2	v	138	GLN
2	v	159	GLN
2	v	161	ASN
2	v	178	GLN
2	v	188	GLN
2	v	198	GLN
2	v	229	ASN
2	v	241	ASN
2	v	249	GLN
2	v	256	ASN
2	w	51	GLN
2	w	68	GLN
2	w	83	ASN
2	w	138	GLN
2	w	159	GLN
2	w	161	ASN
2	w	178	GLN
2	w	188	GLN
2	w	198	GLN
2	w	229	ASN
2	w	241	ASN
2	w	249	GLN
2	w	256	ASN
2	x	51	GLN
2	x	68	GLN
2	x	80	GLN
2	x	83	ASN
2	x	138	GLN
2	x	159	GLN
2	x	161	ASN
2	x	178	GLN
2	x	188	GLN
2	x	198	GLN
2	x	229	ASN
2	x	241	ASN
2	x	249	GLN
2	x	256	ASN
2	y	51	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	y	68	GLN
2	y	80	GLN
2	y	83	ASN
2	y	138	GLN
2	y	159	GLN
2	y	161	ASN
2	y	178	GLN
2	y	188	GLN
2	y	198	GLN
2	y	229	ASN
2	y	241	ASN
2	y	249	GLN
2	y	256	ASN
2	z	51	GLN
2	z	68	GLN
2	z	83	ASN
2	z	138	GLN
2	z	159	GLN
2	z	161	ASN
2	z	178	GLN
2	z	188	GLN
2	z	198	GLN
2	z	229	ASN
2	z	241	ASN
2	z	249	GLN
2	z	256	ASN
3	0	32	ASN
3	0	88	GLN
3	0	100	GLN
3	0	135	GLN
3	0	137	GLN
3	0	180	ASN
3	0	237	GLN
3	0	255	GLN
3	1	67	GLN
3	1	83	GLN
3	1	85	ASN
3	1	135	GLN
3	1	237	GLN
3	1	252	GLN
3	2	164	GLN
3	2	180	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	2	255	GLN
3	3	32	ASN
3	3	37	GLN
3	3	67	GLN
3	3	104	GLN
3	3	137	GLN
3	3	255	GLN
3	4	37	GLN
3	4	51	GLN
3	4	81	HIS
3	4	88	GLN
3	4	104	GLN
3	4	125	ASN
3	4	127	GLN
3	4	174	ASN
3	4	216	GLN
3	4	235	GLN
3	4	252	GLN
3	4	255	GLN
3	5	32	ASN
3	5	55	GLN
3	5	85	ASN
3	5	100	GLN
3	5	237	GLN
3	5	252	GLN
3	6	59	GLN
3	6	91	ASN
3	6	121	GLN
3	6	127	GLN
3	6	135	GLN
3	6	161	GLN
3	6	209	ASN
3	6	237	GLN
3	7	55	GLN
3	7	81	HIS
3	7	125	ASN
3	7	164	GLN
3	7	190	ASN
3	7	235	GLN
3	8	83	GLN
3	8	85	ASN
3	8	196	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	8	209	ASN
3	9	37	GLN
3	9	47	GLN
3	9	85	ASN
3	9	88	GLN
3	9	91	ASN
3	9	137	GLN
3	9	259	GLN
3	ZA	32	ASN
3	ZA	37	GLN
3	ZA	83	GLN
3	ZA	137	GLN
3	ZA	235	GLN
3	ZB	24	ASN
3	ZB	25	ASN
3	ZB	28	ASN
3	ZB	37	GLN
3	ZB	100	GLN
3	ZB	137	GLN
3	ZB	235	GLN
3	ZB	243	ASN
3	ZC	16	GLN
3	ZC	24	ASN
3	ZC	55	GLN
3	ZC	83	GLN
3	ZC	88	GLN
3	ZC	100	GLN
3	ZC	125	ASN
3	ZC	127	GLN
3	ZC	137	GLN
3	ZC	190	ASN
3	ZC	202	ASN
3	ZC	259	GLN
3	ZD	24	ASN
3	ZD	67	GLN
3	ZD	88	GLN
3	ZD	91	ASN
3	ZD	124	GLN
3	ZD	135	GLN
3	ZD	161	GLN
3	ZE	37	GLN
3	ZE	67	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	ZE	91	ASN
3	ZE	121	GLN
3	ZE	252	GLN
4	ZF	5	GLN
4	ZF	107	ASN
4	ZF	155	GLN
4	ZF	194	HIS
4	ZF	197	ASN
4	ZF	270	ASN
4	ZF	280	ASN
4	ZF	282	ASN
4	ZF	310	GLN
4	ZF	358	ASN
4	ZF	385	ASN
4	ZF	387	GLN
4	ZG	22	ASN
4	ZG	89	ASN
4	ZG	107	ASN
4	ZG	115	GLN
4	ZG	130	GLN
4	ZG	133	ASN
4	ZG	233	ASN
4	ZG	265	ASN
4	ZG	270	ASN
4	ZG	293	GLN
4	ZG	303	ASN
4	ZG	332	ASN
4	ZG	385	ASN
4	ZG	387	GLN
4	ZG	397	ASN
4	ZG	401	ASN
4	ZH	5	GLN
4	ZH	206	ASN
4	ZH	252	ASN
4	ZH	270	ASN
4	ZH	296	ASN
4	ZH	303	ASN
4	ZH	329	GLN
4	ZH	352	ASN
4	ZH	365	ASN
4	ZH	379	GLN
4	ZH	385	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	ZH	392	GLN
4	ZI	5	GLN
4	ZI	22	ASN
4	ZI	130	GLN
4	ZI	197	ASN
4	ZI	245	ASN
4	ZI	252	ASN
4	ZI	265	ASN
4	ZI	269	GLN
4	ZI	322	ASN
4	ZI	323	ASN
4	ZI	385	ASN
4	ZI	387	GLN
4	ZI	392	GLN
4	ZI	394	GLN
4	ZI	401	ASN
4	ZJ	22	ASN
4	ZJ	133	ASN
4	ZJ	159	ASN
4	ZJ	197	ASN
4	ZJ	265	ASN
4	ZJ	270	ASN
4	ZJ	282	ASN
4	ZJ	293	GLN
4	ZJ	310	GLN
4	ZJ	379	GLN
4	ZJ	392	GLN
4	ZJ	397	ASN
4	ZJ	401	ASN
4	ZK	89	ASN
4	ZK	107	ASN
4	ZK	197	ASN
4	ZK	252	ASN
4	ZK	274	ASN
4	ZK	303	ASN
4	ZK	319	ASN
4	ZK	332	ASN
4	ZK	392	GLN
4	ZK	401	ASN
4	ZL	5	GLN
4	ZL	89	ASN
4	ZL	99	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	ZL	179	ASN
4	ZL	190	GLN
4	ZL	197	ASN
4	ZL	252	ASN
4	ZL	282	ASN
4	ZL	293	GLN
4	ZL	303	ASN
4	ZL	306	ASN
4	ZL	310	GLN
4	ZL	338	GLN
4	ZL	385	ASN
4	ZL	401	ASN
4	ZM	5	GLN
4	ZM	22	ASN
4	ZM	59	GLN
4	ZM	89	ASN
4	ZM	197	ASN
4	ZM	213	HIS
4	ZM	235	ASN
4	ZM	252	ASN
4	ZM	381	ASN
4	ZM	397	ASN
4	ZN	22	ASN
4	ZN	79	GLN
4	ZN	107	ASN
4	ZN	129	GLN
4	ZN	133	ASN
4	ZN	157	ASN
4	ZN	190	GLN
4	ZN	192	ASN
4	ZN	197	ASN
4	ZN	213	HIS
4	ZN	270	ASN
4	ZN	319	ASN
4	ZN	332	ASN
4	ZN	338	GLN
4	ZN	379	GLN
4	ZN	385	ASN
4	ZN	387	GLN
4	ZN	401	ASN
4	ZO	5	GLN
4	ZO	22	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	ZO	141	ASN
4	ZO	192	ASN
4	ZO	235	ASN
4	ZO	270	ASN
4	ZO	296	ASN
4	ZO	322	ASN
4	ZO	332	ASN
4	ZP	11	ASN
4	ZP	89	ASN
4	ZP	107	ASN
4	ZP	129	GLN
4	ZP	192	ASN
4	ZP	194	HIS
4	ZP	213	HIS
4	ZP	245	ASN
4	ZP	270	ASN
4	ZP	314	GLN
4	ZP	322	ASN
4	ZP	338	GLN
4	ZP	381	ASN
4	ZP	385	ASN
4	ZP	392	GLN
4	ZQ	89	ASN
4	ZQ	97	ASN
4	ZQ	105	ASN
4	ZQ	133	ASN
4	ZQ	141	ASN
4	ZQ	155	GLN
4	ZQ	197	ASN
4	ZQ	213	HIS
4	ZQ	233	ASN
4	ZQ	265	ASN
4	ZQ	308	GLN
4	ZQ	383	GLN
4	ZQ	387	GLN
4	ZR	107	ASN
4	ZR	133	ASN
4	ZR	157	ASN
4	ZR	197	ASN
4	ZR	206	ASN
4	ZR	252	ASN
4	ZR	268	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	ZR	269	GLN
4	ZR	293	GLN
4	ZR	295	ASN
4	ZR	310	GLN
4	ZR	401	ASN
4	ZS	22	ASN
4	ZS	133	ASN
4	ZS	197	ASN
4	ZS	206	ASN
4	ZS	303	ASN
4	ZS	394	GLN
4	ZT	5	GLN
4	ZT	22	ASN
4	ZT	99	GLN
4	ZT	129	GLN
4	ZT	133	ASN
4	ZT	197	ASN
4	ZT	213	HIS
4	ZT	235	ASN
4	ZT	252	ASN
4	ZT	270	ASN
4	ZT	275	ASN
4	ZT	293	GLN
4	ZT	303	ASN
4	ZT	310	GLN
4	ZT	314	GLN
4	ZT	352	ASN
4	ZU	22	ASN
4	ZU	59	GLN
4	ZU	99	GLN
4	ZU	107	ASN
4	ZU	133	ASN
4	ZU	159	ASN
4	ZU	197	ASN
4	ZU	293	GLN
4	ZU	310	GLN
4	ZU	314	GLN
4	ZU	332	ASN
4	ZU	379	GLN
4	ZU	387	GLN
4	ZU	401	ASN
4	ZV	89	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	ZV	107	ASN
4	ZV	130	GLN
4	ZV	133	ASN
4	ZV	159	ASN
4	ZV	197	ASN
4	ZV	213	HIS
4	ZV	252	ASN
4	ZV	269	GLN
4	ZV	280	ASN
4	ZV	293	GLN
4	ZV	295	ASN
4	ZV	303	ASN
4	ZV	314	GLN
4	ZV	381	ASN
4	ZV	394	GLN
4	ZW	5	GLN
4	ZW	107	ASN
4	ZW	129	GLN
4	ZW	133	ASN
4	ZW	213	HIS
4	ZW	252	ASN
4	ZW	270	ASN
4	ZW	310	GLN
4	ZW	314	GLN
4	ZW	332	ASN
4	ZX	89	ASN
4	ZX	159	ASN
4	ZX	270	ASN
4	ZX	314	GLN
4	ZX	401	ASN
4	ZY	5	GLN
4	ZY	59	GLN
4	ZY	80	ASN
4	ZY	115	GLN
4	ZY	159	ASN
4	ZY	190	GLN
4	ZY	197	ASN
4	ZY	265	ASN
4	ZY	268	GLN
4	ZY	270	ASN
4	ZY	314	GLN
4	ZY	332	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	ZY	385	ASN
4	ZY	392	GLN
4	ZZ	99	GLN
4	ZZ	107	ASN
4	ZZ	133	ASN
4	ZZ	194	HIS
4	ZZ	197	ASN
4	ZZ	213	HIS
4	ZZ	293	GLN
4	ZZ	303	ASN
4	ZZ	308	GLN
4	ZZ	314	GLN
4	ZZ	332	ASN
4	ZZ	387	GLN
4	ZZ	394	GLN
4	ZZ	401	ASN
4	Za	22	ASN
4	Za	129	GLN
4	Za	133	ASN
4	Za	157	ASN
4	Za	197	ASN
4	Za	293	GLN
4	Za	332	ASN
4	Za	385	ASN
4	Za	387	GLN
4	Zb	5	GLN
4	Zb	79	GLN
4	Zb	107	ASN
4	Zb	133	ASN
4	Zb	159	ASN
4	Zb	197	ASN
4	Zb	293	GLN
4	Zb	308	GLN
4	Zb	314	GLN
4	Zb	358	ASN
4	Zb	385	ASN
4	Zb	401	ASN
4	Zc	107	ASN
4	Zc	115	GLN
4	Zc	129	GLN
4	Zc	159	ASN
4	Zc	197	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	Zc	270	ASN
4	Zc	293	GLN
4	Zc	352	ASN
4	Zc	379	GLN
4	Zc	387	GLN
4	Zd	5	GLN
4	Zd	22	ASN
4	Zd	105	ASN
4	Zd	129	GLN
4	Zd	130	GLN
4	Zd	133	ASN
4	Zd	293	GLN
4	Zd	295	ASN
4	Zd	303	ASN
4	Zd	322	ASN
4	Zd	387	GLN
4	Ze	5	GLN
4	Ze	22	ASN
4	Ze	99	GLN
4	Ze	133	ASN
4	Ze	197	ASN
4	Ze	252	ASN
4	Ze	303	ASN
4	Ze	322	ASN
4	Ze	358	ASN
4	Ze	394	GLN
4	Zf	22	ASN
4	Zf	105	ASN
4	Zf	107	ASN
4	Zf	115	GLN
4	Zf	159	ASN
4	Zf	197	ASN
4	Zf	252	ASN
4	Zf	293	GLN
4	Zf	303	ASN
4	Zf	308	GLN
4	Zf	314	GLN
4	Zf	332	ASN
4	Zf	385	ASN
4	Zg	5	GLN
4	Zg	22	ASN
4	Zg	26	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	Zg	107	ASN
4	Zg	129	GLN
4	Zg	133	ASN
4	Zg	159	ASN
4	Zg	179	ASN
4	Zg	197	ASN
4	Zg	213	HIS
4	Zg	310	GLN
4	Zg	381	ASN
4	Zg	392	GLN
4	Zh	97	ASN
4	Zh	99	GLN
4	Zh	115	GLN
4	Zh	197	ASN
4	Zh	303	ASN
4	Zh	383	GLN
4	Zh	385	ASN
4	Zh	392	GLN
5	AA	18	GLN
5	AA	19	GLN
5	AA	37	GLN
5	AA	91	GLN
5	AA	102	ASN
5	AA	112	GLN
5	AB	18	GLN
5	AB	172	GLN
5	AB	210	ASN
5	AB	223	ASN
5	AB	230	GLN
5	AB	240	ASN
5	AC	18	GLN
5	AC	28	ASN
5	AC	70	GLN
5	AC	83	GLN
5	AC	104	ASN
5	AC	106	GLN
5	AC	186	GLN
5	AD	14	GLN
5	AD	17	ASN
5	AD	104	ASN
5	AD	106	GLN
5	AD	153	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AD	210	ASN
5	AD	240	ASN
5	AE	18	GLN
5	AE	37	GLN
5	AE	112	GLN
5	AE	116	GLN
3	AF	47	GLN
3	AF	83	GLN
3	AF	85	ASN
3	AF	121	GLN
3	AF	135	GLN
3	AF	145	ASN
3	AF	161	GLN
3	AF	164	GLN
3	AF	172	GLN
3	AF	174	ASN
3	AF	223	ASN
3	AG	16	GLN
3	AG	28	ASN
3	AG	37	GLN
3	AG	47	GLN
3	AG	145	ASN
3	AG	180	ASN
3	AG	223	ASN
3	AG	259	GLN
3	AH	37	GLN
3	AH	90	ASN
3	AH	125	ASN
3	AH	127	GLN
3	AH	162	GLN
3	AH	169	GLN
3	AH	172	GLN
3	AH	174	ASN
3	AH	223	ASN
3	AH	259	GLN
3	AI	16	GLN
3	AI	32	ASN
3	AI	37	GLN
3	AI	196	GLN
3	AI	202	ASN
3	AI	209	ASN
3	AI	252	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AJ	47	GLN
3	AJ	85	ASN
3	AJ	90	ASN
3	AJ	161	GLN
3	AJ	164	GLN
3	AJ	169	GLN
3	AJ	172	GLN
3	AJ	174	ASN
3	AJ	223	ASN
3	AJ	232	ASN
3	AK	28	ASN
3	AK	32	ASN
3	AK	104	GLN
3	AK	121	GLN
3	AK	125	ASN
3	AK	127	GLN
3	AK	135	GLN
3	AK	137	GLN
3	AK	172	GLN
3	AK	180	ASN
3	AK	196	GLN
3	AK	223	ASN
3	AK	235	GLN
3	AL	32	ASN
3	AL	37	GLN
3	AL	81	HIS
3	AL	104	GLN
3	AL	121	GLN
3	AL	127	GLN
3	AL	145	ASN
3	AL	209	ASN
3	AM	25	ASN
3	AM	37	GLN
3	AM	51	GLN
3	AM	67	GLN
3	AM	91	ASN
3	AM	125	ASN
3	AM	127	GLN
3	AM	209	ASN
3	AM	223	ASN
3	AM	252	GLN
3	AN	37	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AN	67	GLN
3	AN	125	ASN
3	AN	137	GLN
3	AN	161	GLN
3	AN	235	GLN
6	AR	231	ASN
6	AR	234	GLN
6	AR	281	HIS
6	AR	303	GLN
6	AR	374	HIS
6	AR	378	ASN
6	AR	434	ASN
6	AS	231	ASN
6	AS	234	GLN
6	AS	297	GLN
6	AS	299	ASN
6	AS	303	GLN
6	AS	374	HIS
6	AS	378	ASN
6	AS	434	ASN
6	AT	231	ASN
6	AT	234	GLN
6	AT	281	HIS
6	AT	303	GLN
6	AT	374	HIS
6	AT	378	ASN
6	AT	434	ASN
6	AU	231	ASN
6	AU	234	GLN
6	AU	303	GLN
6	AU	374	HIS
6	AU	378	ASN
6	AU	434	ASN
6	AV	231	ASN
6	AV	234	GLN
6	AV	263	HIS
6	AV	303	GLN
6	AV	374	HIS
6	AV	378	ASN
6	AV	434	ASN
6	AW	231	ASN
6	AW	234	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AW	263	HIS
6	AW	281	HIS
6	AW	299	ASN
6	AW	303	GLN
6	AW	374	HIS
6	AW	378	ASN
6	AW	434	ASN
6	AX	231	ASN
6	AX	234	GLN
6	AX	297	GLN
6	AX	303	GLN
6	AX	374	HIS
6	AX	378	ASN
6	AX	434	ASN
6	AY	231	ASN
6	AY	234	GLN
6	AY	281	HIS
6	AY	299	ASN
6	AY	303	GLN
6	AY	374	HIS
6	AY	378	ASN
6	AY	434	ASN
6	AZ	231	ASN
6	AZ	234	GLN
6	AZ	303	GLN
6	AZ	374	HIS
6	AZ	378	ASN
6	AZ	434	ASN
6	Aa	231	ASN
6	Aa	234	GLN
6	Aa	303	GLN
6	Aa	374	HIS
6	Aa	378	ASN
6	Aa	434	ASN
6	Ac	231	ASN
6	Ac	234	GLN
6	Ac	303	GLN
6	Ac	374	HIS
6	Ac	378	ASN
6	Ac	434	ASN
6	Ad	231	ASN
6	Ad	234	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	Ad	265	GLN
6	Ad	303	GLN
6	Ad	374	HIS
6	Ad	378	ASN
6	Ad	434	ASN
6	Ae	231	ASN
6	Ae	234	GLN
6	Ae	281	HIS
6	Ae	303	GLN
6	Ae	374	HIS
6	Ae	378	ASN
6	Ae	434	ASN
6	Af	231	ASN
6	Af	234	GLN
6	Af	297	GLN
6	Af	303	GLN
6	Af	365	ASN
6	Af	374	HIS
6	Af	378	ASN
6	Af	434	ASN
6	Ag	231	ASN
6	Ag	234	GLN
6	Ag	297	GLN
6	Ag	303	GLN
6	Ag	374	HIS
6	Ag	378	ASN
6	Ag	434	ASN
6	Ah	231	ASN
6	Ah	234	GLN
6	Ah	246	GLN
6	Ah	281	HIS
6	Ah	303	GLN
6	Ah	374	HIS
6	Ah	378	ASN
6	Ah	434	ASN
6	Ai	231	ASN
6	Ai	234	GLN
6	Ai	303	GLN
6	Ai	378	ASN
6	Ai	434	ASN
6	Aj	231	ASN
6	Aj	234	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	Aj	281	HIS
6	Aj	303	GLN
6	Aj	374	HIS
6	Aj	378	ASN
6	Aj	434	ASN
6	Ak	231	ASN
6	Ak	234	GLN
6	Ak	281	HIS
6	Ak	303	GLN
6	Ak	374	HIS
6	Ak	378	ASN
6	Ak	434	ASN
6	Al	231	ASN
6	Al	234	GLN
6	Al	281	HIS
6	Al	303	GLN
6	Al	374	HIS
6	Al	378	ASN
6	Al	434	ASN
6	Am	234	GLN
6	Am	303	GLN
6	Am	374	HIS
6	Am	378	ASN
6	Am	434	ASN
6	An	234	GLN
6	An	281	HIS
6	An	303	GLN
6	An	374	HIS
6	An	378	ASN
6	An	434	ASN
6	Ao	234	GLN
6	Ao	303	GLN
6	Ao	374	HIS
6	Ao	378	ASN
6	Ao	434	ASN
6	Ap	234	GLN
6	Ap	374	HIS
6	Ap	378	ASN
6	Ap	434	ASN
6	AO	234	GLN
6	AO	297	GLN
6	AO	303	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AO	374	HIS
6	AO	378	ASN
6	AO	434	ASN
6	AP	234	GLN
6	AP	297	GLN
6	AP	303	GLN
6	AP	359	GLN
6	AP	374	HIS
6	AP	378	ASN
6	AP	434	ASN
6	AQ	234	GLN
6	AQ	303	GLN
6	AQ	374	HIS
6	AQ	378	ASN
6	AQ	434	ASN
7	As	39	GLN
8	At	162	ASN
8	At	182	ASN
8	At	205	ASN
9	Au	119	GLN
9	Au	141	GLN
9	Au	160	GLN
9	Av	86	ASN
9	Av	241	GLN
9	Aw	160	GLN
9	Aw	184	GLN
9	Ax	160	GLN
9	Ax	184	GLN
9	Ax	233	GLN
9	Ax	241	GLN
9	Ay	87	GLN
9	Ay	114	GLN
9	Ay	155	ASN
10	Az	103	GLN
10	A2	13	GLN
10	A2	15	GLN
10	A2	83	GLN
10	A2	103	GLN
10	A4	39	HIS
10	A4	55	GLN
10	A4	83	GLN
10	A4	87	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	A4	97	GLN
10	A5	55	GLN
10	A5	76	GLN
10	A5	87	GLN
11	A6	17	ASN
11	A6	71	HIS
11	A6	72	HIS
11	A7	21	GLN
11	A7	29	ASN
11	A7	92	GLN
11	A7	98	ASN
11	A7	117	GLN
11	A8	32	ASN
11	A8	76	GLN
11	A8	92	GLN
11	A9	21	GLN
11	A9	32	ASN
11	A9	72	HIS
11	A9	76	GLN
11	A9	98	ASN
11	A9	117	GLN
11	A0	13	GLN
11	A0	72	HIS
11	A0	76	GLN
11	A0	112	ASN
6	UI	69	GLN
6	UI	94	HIS
6	UI	196	HIS
6	UJ	94	HIS
6	UJ	245	HIS
6	UK	94	HIS
6	UK	196	HIS
6	UL	69	GLN
6	UL	94	HIS
6	UL	196	HIS
6	UM	94	HIS
6	UM	196	HIS
6	UN	69	GLN
6	UN	94	HIS
6	UN	196	HIS
6	UO	69	GLN
6	UO	94	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	UO	196	HIS
6	UP	94	HIS
6	UP	196	HIS
12	BA	30	ASN
12	BA	115	ASN
12	BB	22	ASN
12	BB	30	ASN
12	BB	120	ASN
6	WA	156	HIS
6	WB	131	ASN
6	WB	169	GLN
6	WC	129	GLN
6	WC	190	GLN
6	WD	190	GLN
6	WE	156	HIS
6	WE	209	ASN
6	WF	118	GLN
6	WG	118	GLN
6	WH	156	HIS
6	WI	129	GLN
6	WI	156	HIS
6	WJ	169	GLN
6	WJ	209	ASN
6	WO	209	ASN
6	WP	169	GLN
6	WP	209	ASN
6	WR	129	GLN
6	WR	156	HIS
6	WT	156	HIS
6	WT	209	ASN
6	WV	118	GLN
6	WV	169	GLN
12	BC	22	ASN
12	BC	40	GLN
12	BC	50	GLN
12	BC	57	GLN
12	BC	134	GLN
12	BD	82	ASN
12	BE	17	GLN
12	BE	115	ASN
12	BF	5	ASN
12	BF	57	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	BF	115	ASN
6	BG	319	GLN
6	BJ	324	ASN
6	BK	324	ASN
6	BM	324	ASN
6	BN	318	ASN
6	BO	318	ASN
6	BQ	318	ASN
6	BR	234	GLN
6	BR	303	GLN
6	BR	378	ASN
6	BR	434	ASN
6	BS	234	GLN
6	BS	281	HIS
6	BS	303	GLN
6	BS	374	HIS
6	BS	378	ASN
6	BS	434	ASN
6	BT	234	GLN
6	BT	303	GLN
6	BT	374	HIS
6	BT	378	ASN
6	BT	434	ASN
6	BU	234	GLN
6	BU	303	GLN
6	BU	374	HIS
6	BU	378	ASN
6	BU	434	ASN
6	BV	234	GLN
6	BV	303	GLN
6	BV	374	HIS
6	BV	378	ASN
6	BV	434	ASN
6	BW	234	GLN
6	BW	374	HIS
6	BW	378	ASN
6	BW	434	ASN
6	BX	231	ASN
6	BX	234	GLN
6	BX	303	GLN
6	BX	374	HIS
6	BX	378	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	BX	434	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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.

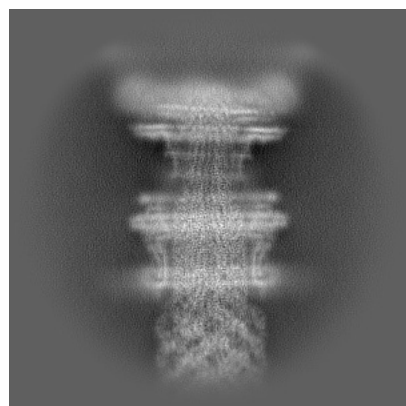
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-37611. These allow visual inspection of the internal detail of the map and identification of artifacts.

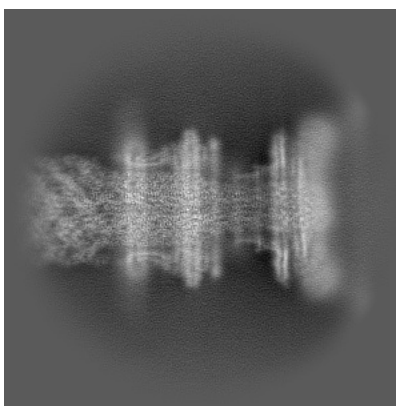
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

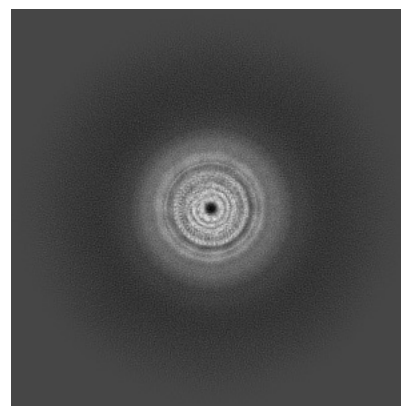
6.1.1 Primary map



X

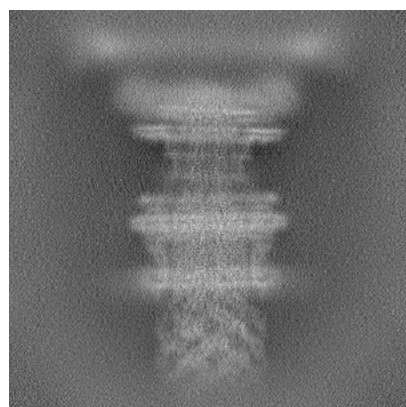


Y

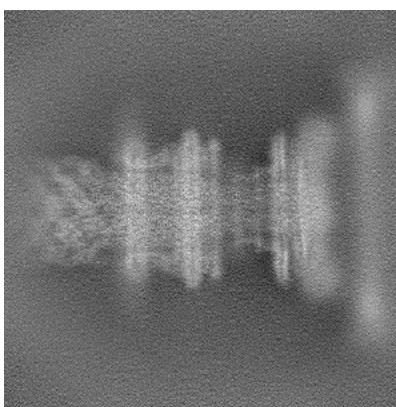


Z

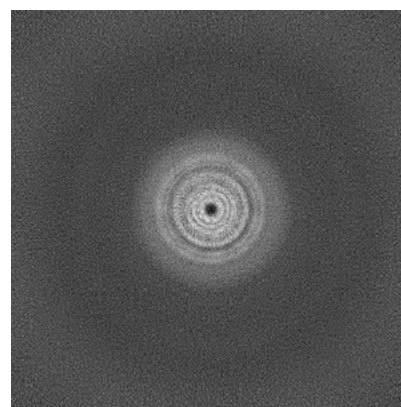
6.1.2 Raw map



X



Y

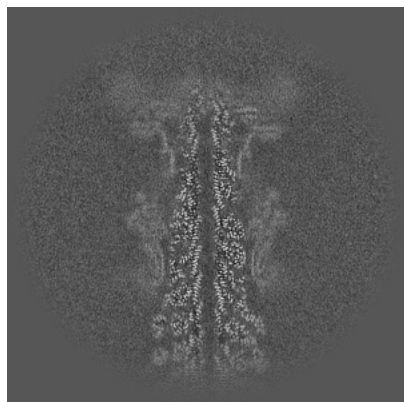


Z

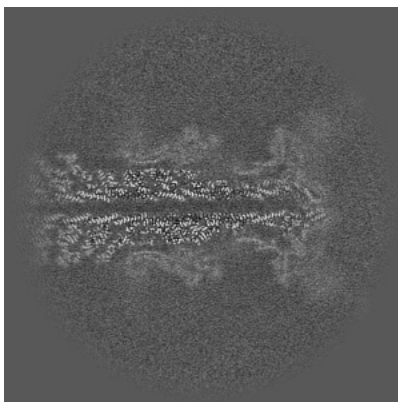
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

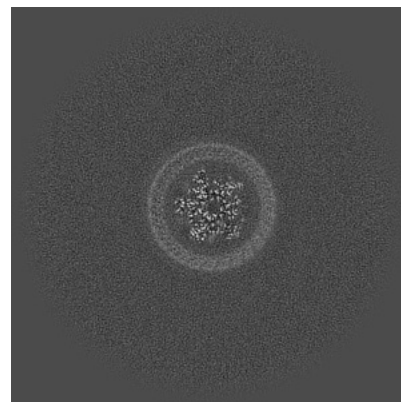
6.2.1 Primary map



X Index: 256

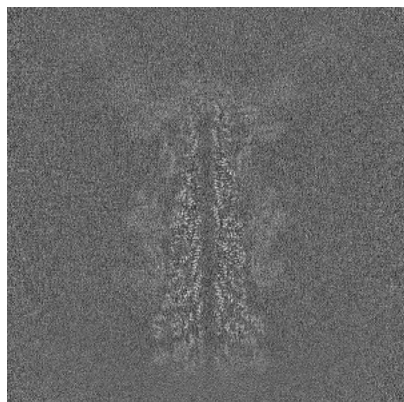


Y Index: 256

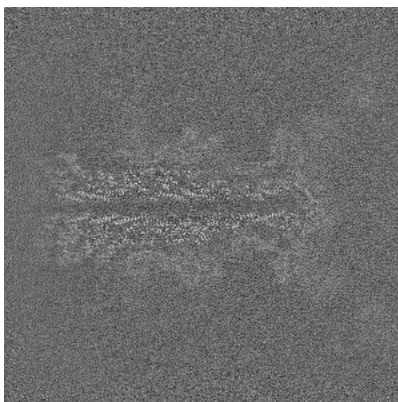


Z Index: 256

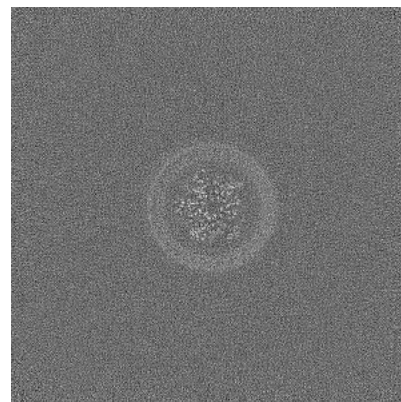
6.2.2 Raw map



X Index: 256



Y Index: 256

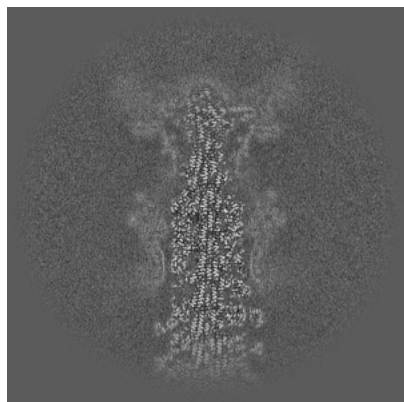


Z Index: 256

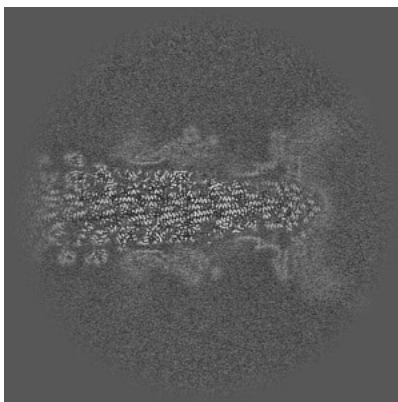
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

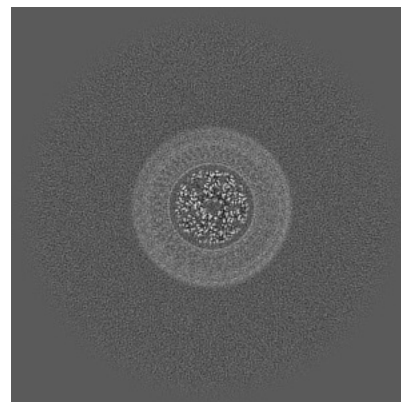
6.3.1 Primary map



X Index: 242

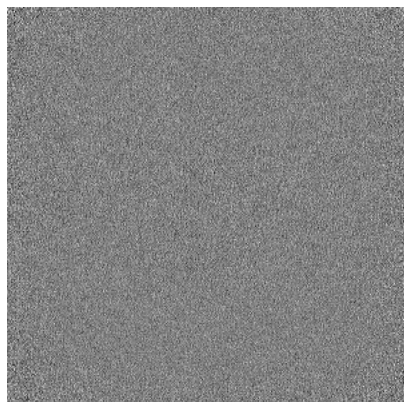


Y Index: 268

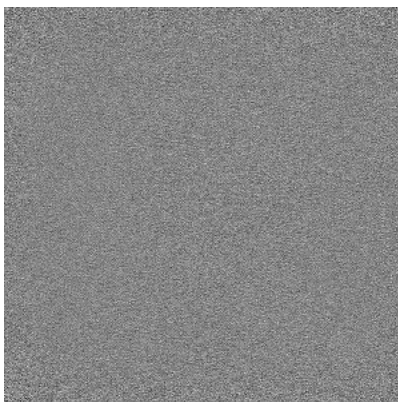


Z Index: 234

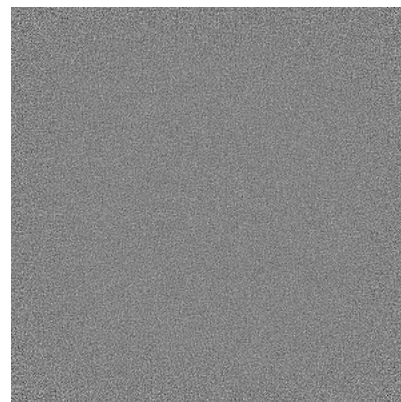
6.3.2 Raw map



X Index: 0



Y Index: 0

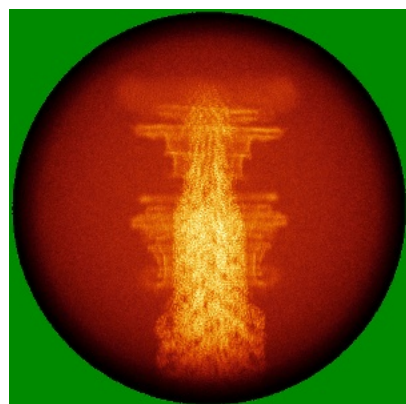


Z Index: 0

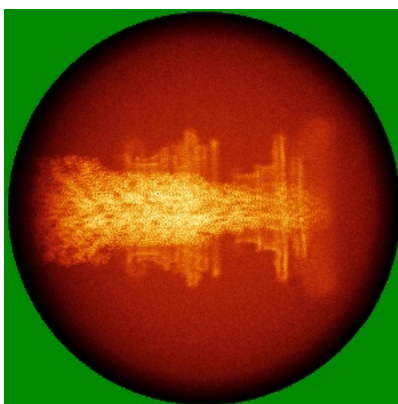
The images above show the largest variance slices of the map in three orthogonal directions.

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

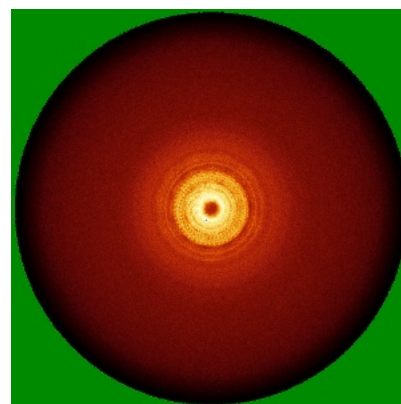
6.4.1 Primary map



X

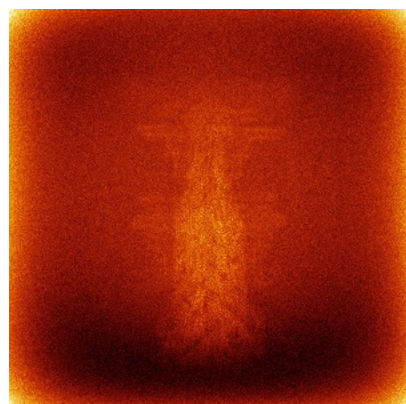


Y

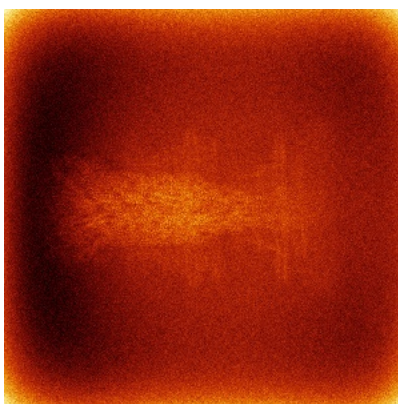


Z

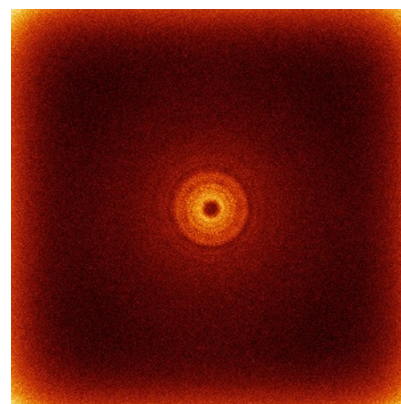
6.4.2 Raw map



X



Y

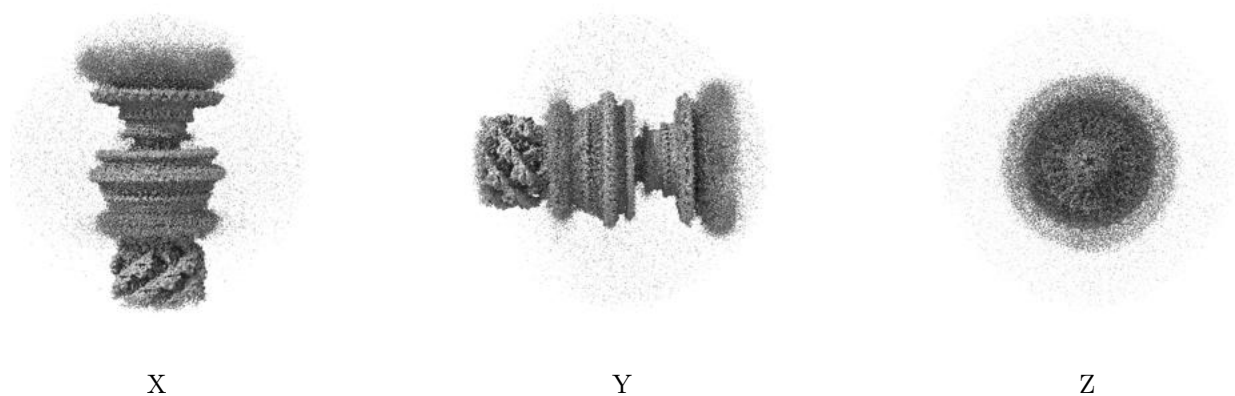


Z

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.

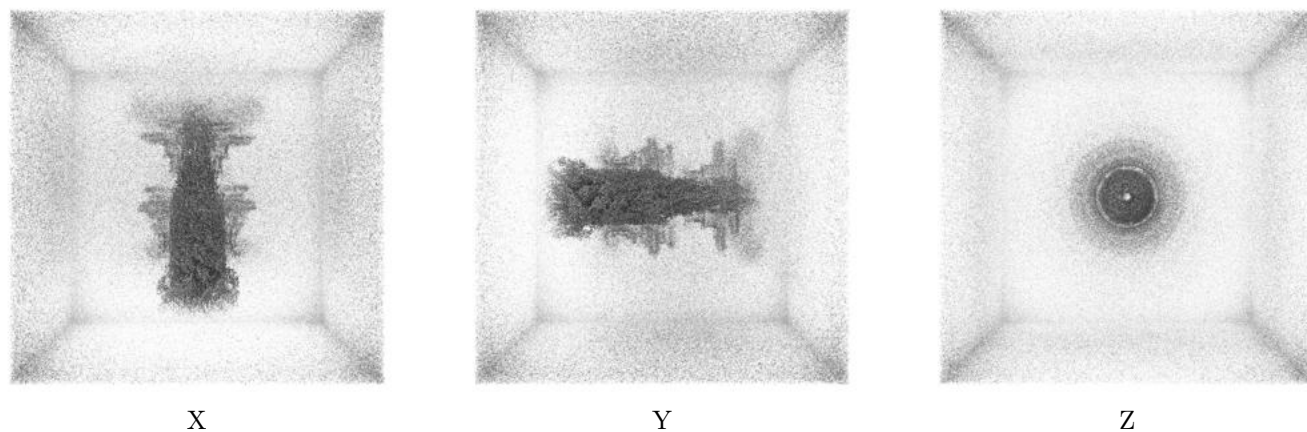
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.18. 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



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.

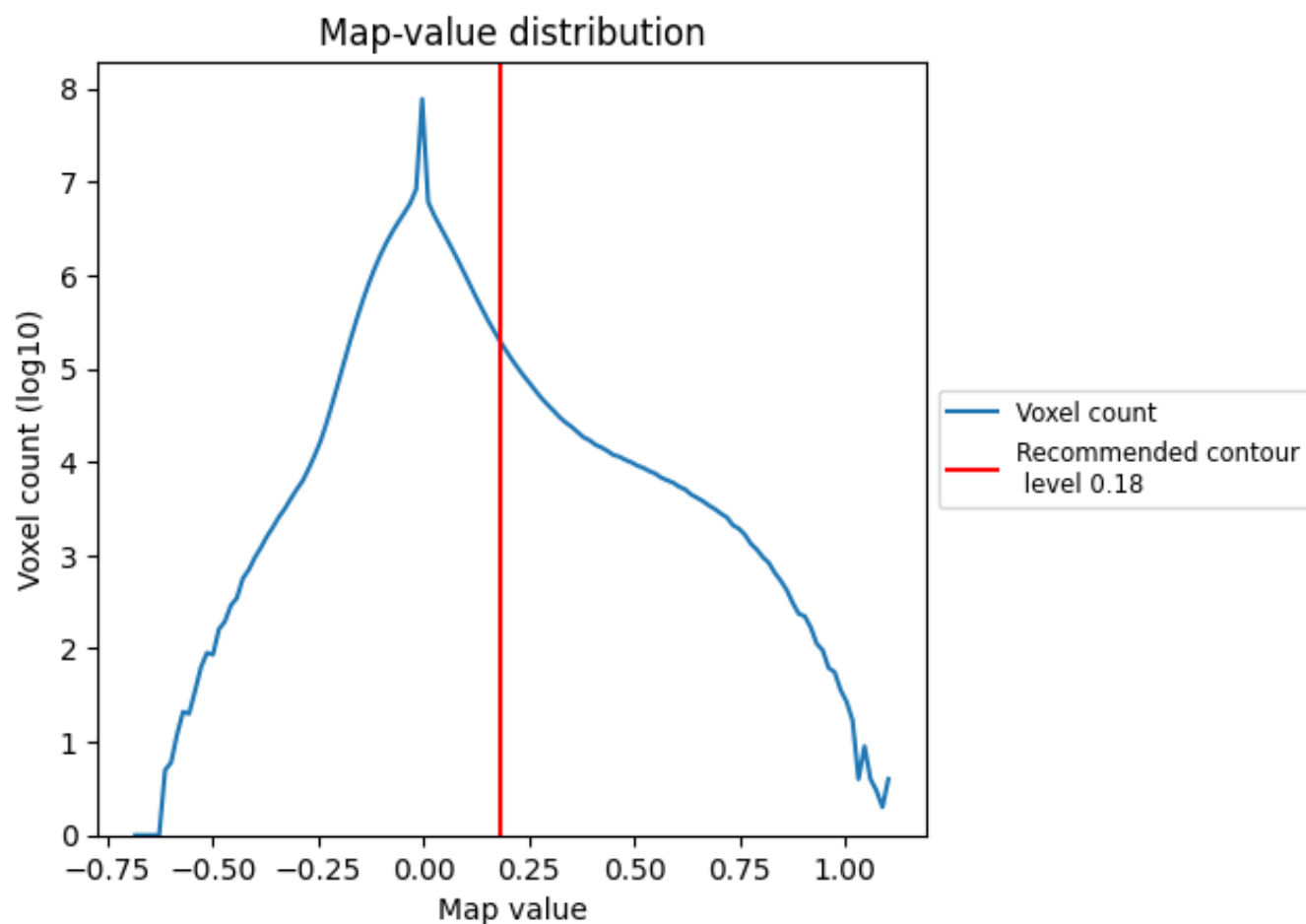
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

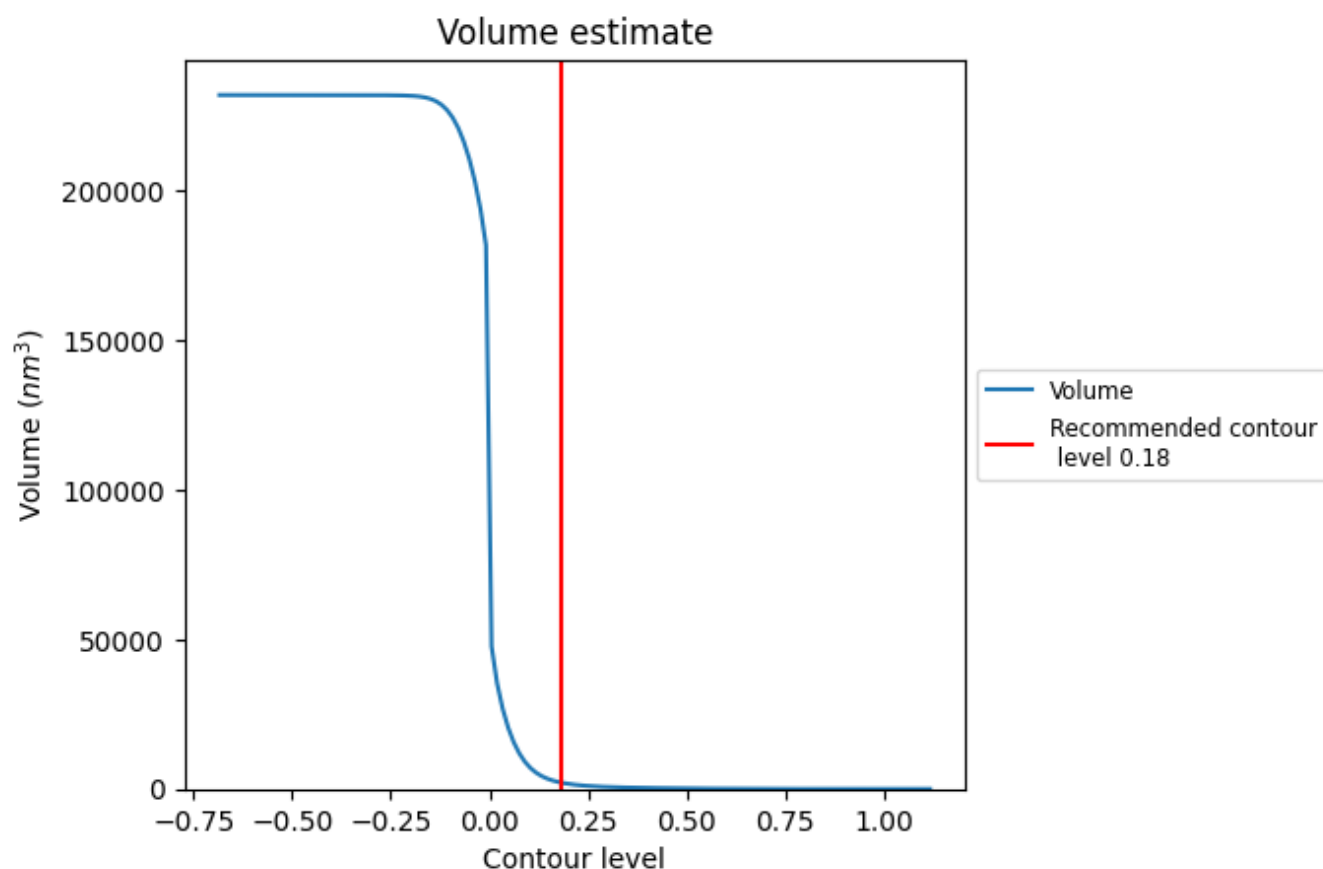
This section contains the results of statistical analysis of the map.

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.

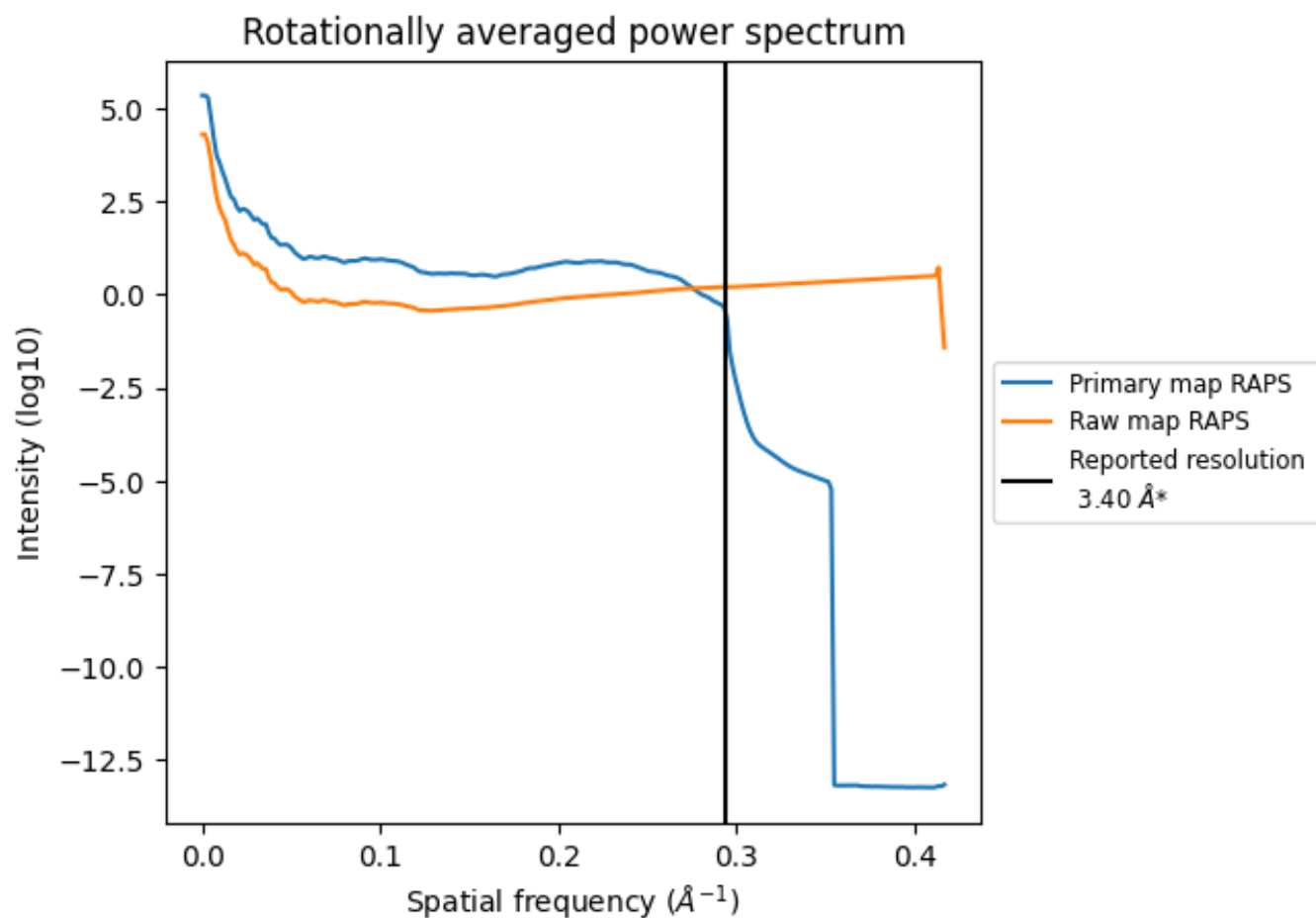
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2188 nm^3 ; this corresponds to an approximate mass of 1977 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 ⓘ

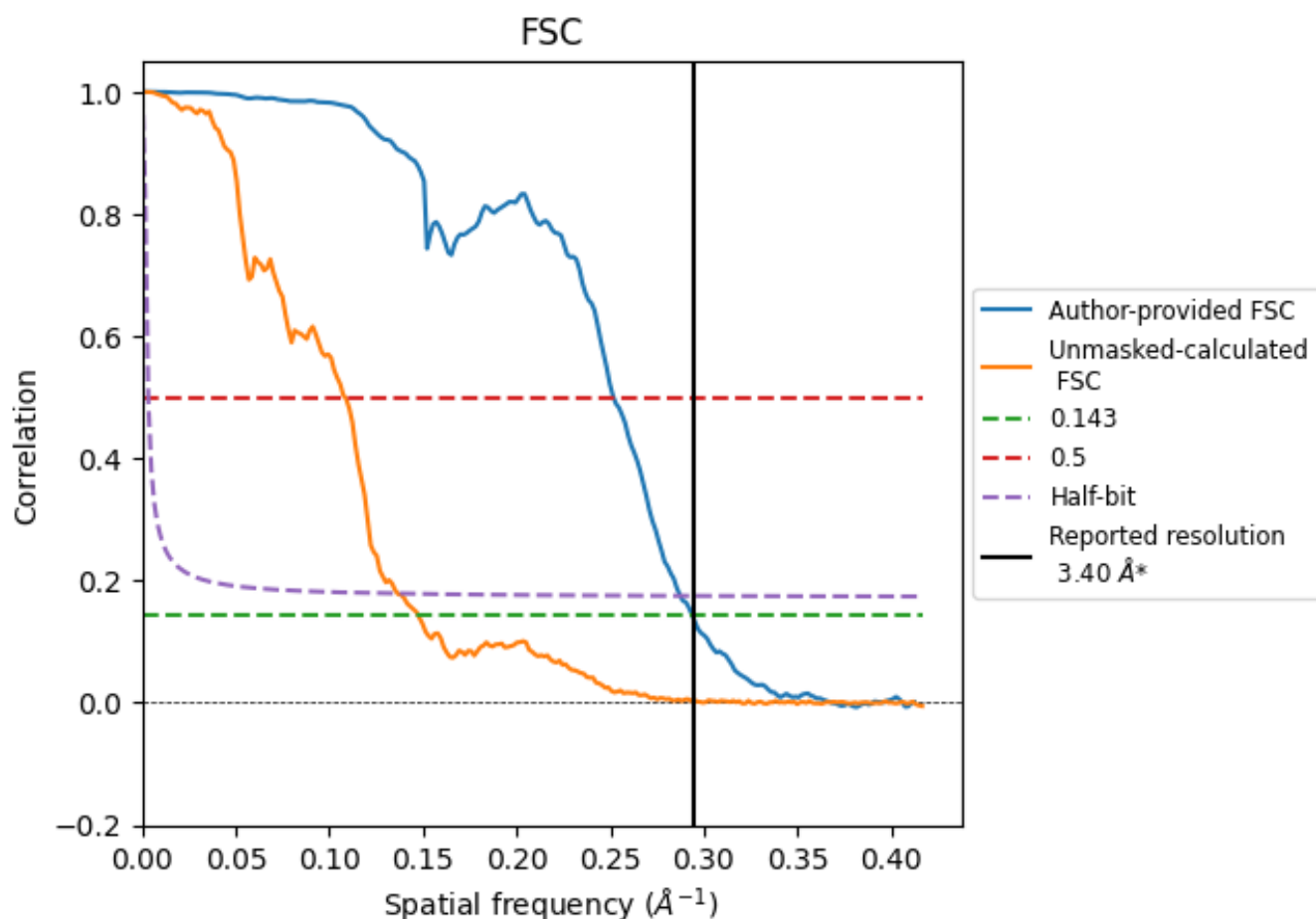


*Reported resolution corresponds to spatial frequency of 0.294 Å⁻¹

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 0.294 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

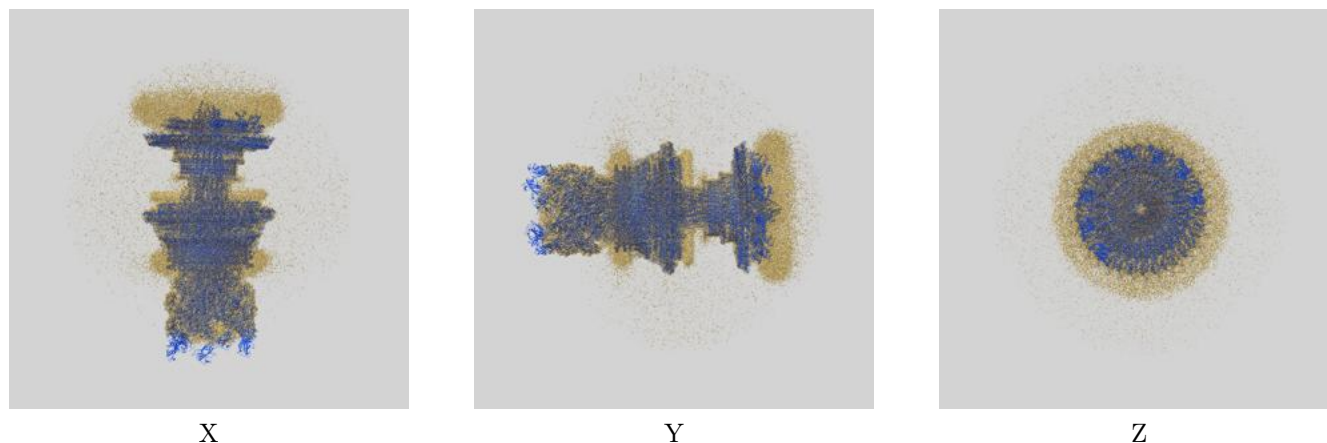
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.40	-	-
Author-provided FSC curve	3.40	3.97	3.48
Unmasked-calculated*	6.78	9.23	7.33

*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 6.78 differs from the reported value 3.4 by more than 10 %

9 Map-model fit [i](#)

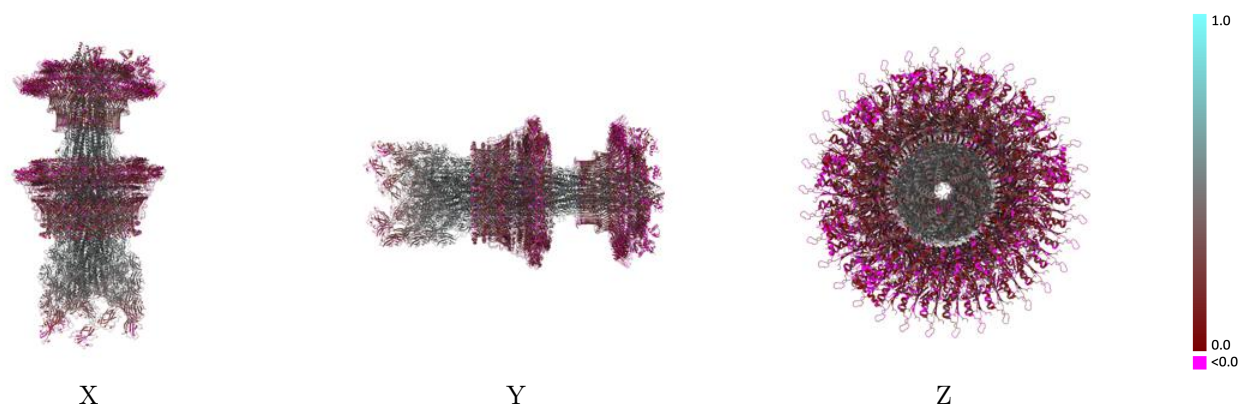
This section contains information regarding the fit between EMDB map EMD-37611 and PDB model 8WL2. Per-residue inclusion information can be found in section 3 on page 24.

9.1 Map-model overlay [i](#)



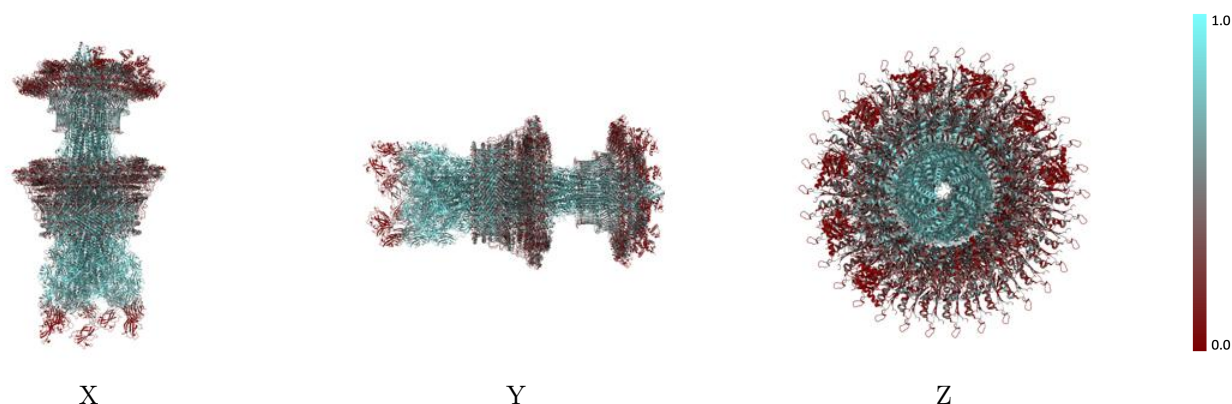
The images above show the 3D surface view of the map at the recommended contour level 0.18 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



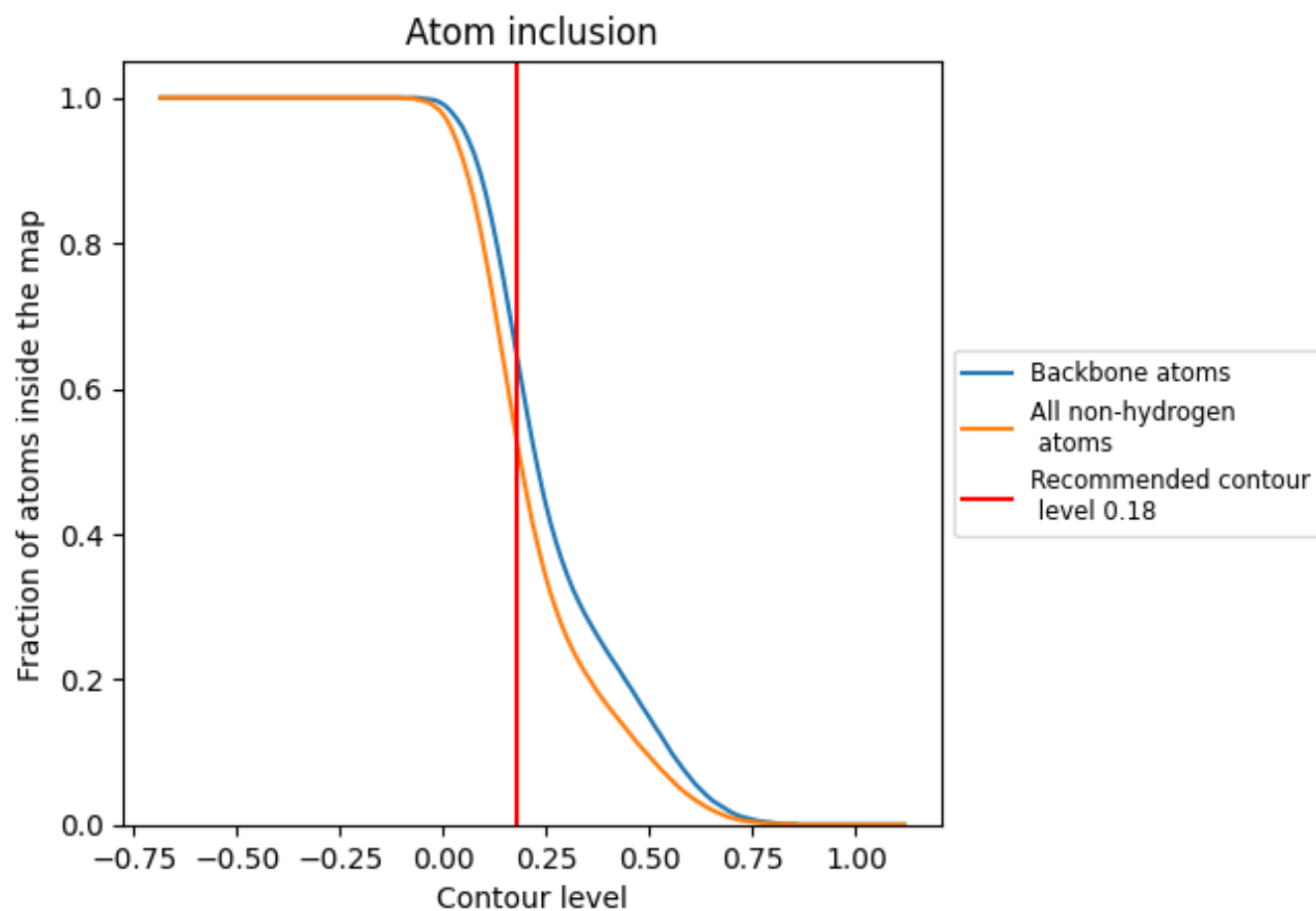
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.18).

9.4 Atom inclusion [i](#)



At the recommended contour level, 64% of all backbone atoms, 52% 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 (0.18) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5240	 0.3100
0	 0.8020	 0.5090
1	 0.7900	 0.5090
2	 0.7950	 0.5130
3	 0.7850	 0.5070
4	 0.7900	 0.5030
5	 0.7960	 0.5030
6	 0.8020	 0.5080
7	 0.7970	 0.5020
8	 0.7960	 0.5040
9	 0.8000	 0.5090
A	 0.3850	 0.2080
A0	 0.7190	 0.4510
A1	 0.6820	 0.4090
A2	 0.7020	 0.4120
A3	 0.7000	 0.4350
A4	 0.6560	 0.3930
A5	 0.6150	 0.3870
A6	 0.7010	 0.4630
A7	 0.7480	 0.4640
A8	 0.7500	 0.4690
A9	 0.7310	 0.4640
AA	 0.7600	 0.5010
AB	 0.8190	 0.5150
AC	 0.8150	 0.5130
AD	 0.8120	 0.5120
AE	 0.7910	 0.4970
AF	 0.7780	 0.5070
AG	 0.8070	 0.5130
AH	 0.8030	 0.5070
AI	 0.8010	 0.5170
AJ	 0.7940	 0.5080
AK	 0.7960	 0.5130
AL	 0.8000	 0.5060
AM	 0.7940	 0.5090



Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
AN	 0.8010	 0.5120
AO	 0.3380	 0.1640
AP	 0.3490	 0.1710
AQ	 0.3360	 0.1640
AR	 0.4180	 0.1610
AS	 0.3560	 0.1480
AT	 0.3970	 0.1610
AU	 0.4010	 0.1700
AV	 0.4010	 0.1490
AW	 0.4060	 0.1660
AX	 0.4240	 0.1740
AY	 0.4270	 0.1780
AZ	 0.4290	 0.1660
Aa	 0.4270	 0.1780
Ab	 0.6140	 0.3500
Ac	 0.3860	 0.1240
Ad	 0.3920	 0.1320
Ae	 0.3650	 0.1210
Af	 0.3730	 0.1160
Ag	 0.3340	 0.0990
Ah	 0.3330	 0.0830
Ai	 0.3180	 0.0890
Aj	 0.3380	 0.1030
Ak	 0.3440	 0.1450
Al	 0.3450	 0.1410
Am	 0.3770	 0.1600
An	 0.3770	 0.1760
Ao	 0.3710	 0.1760
Ap	 0.3450	 0.1640
Aq	 0.7130	 0.3970
Ar	 0.7130	 0.3910
As	 0.6690	 0.3770
At	 0.6300	 0.3800
Au	 0.7040	 0.4150
Av	 0.7440	 0.4450
Aw	 0.7660	 0.4570
Ax	 0.7460	 0.4570
Ay	 0.7020	 0.4330
Az	 0.5680	 0.3510
B	 0.3860	 0.2100
BA	 0.7550	 0.4860
BB	 0.7870	 0.5020

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
BC	 0.7890	 0.5030
BD	 0.7900	 0.4940
BE	 0.7900	 0.4970
BF	 0.7590	 0.4810
BG	 0.6170	 0.4660
BH	 0.7180	 0.4850
BI	 0.7370	 0.4830
BJ	 0.8160	 0.5020
BK	 0.7790	 0.4960
BL	 0.7570	 0.5110
BM	 0.8500	 0.5000
BN	 0.7280	 0.4740
BO	 0.8200	 0.4880
BP	 0.7090	 0.4900
BQ	 0.7790	 0.4970
BR	 0.3280	 0.1360
BS	 0.3230	 0.1370
BT	 0.3040	 0.1250
BU	 0.3200	 0.1330
BV	 0.3420	 0.1530
BW	 0.3410	 0.1290
BX	 0.3550	 0.1470
C	 0.3820	 0.2010
D	 0.4050	 0.2210
E	 0.3900	 0.1980
F	 0.4010	 0.2100
G	 0.3990	 0.2110
H	 0.4010	 0.1950
I	 0.3930	 0.1990
J	 0.3770	 0.1840
K	 0.4020	 0.2130
L	 0.3930	 0.1900
M	 0.3930	 0.1980
N	 0.3970	 0.1950
O	 0.3710	 0.1920
P	 0.4060	 0.2080
Q	 0.3950	 0.2020
R	 0.4030	 0.2000
S	 0.3840	 0.1850
T	 0.3800	 0.1880
U	 0.3720	 0.2040
UI	 0.0730	 0.0730

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
UJ	 0.0820	 0.0660
UK	 0.0470	 0.0870
UL	 0.0550	 0.0410
UM	 0.0440	 0.0280
UN	 0.0700	 0.0480
UO	 0.0660	 0.0660
UP	 0.0720	 0.0510
V	 0.3900	 0.2060
W	 0.3700	 0.2020
WA	 0.5050	 0.2590
WB	 0.4920	 0.2350
WC	 0.4740	 0.2500
WD	 0.4420	 0.2190
WE	 0.4360	 0.2360
WF	 0.3890	 0.2250
WG	 0.3190	 0.1870
WH	 0.2930	 0.1630
WI	 0.2800	 0.1510
WJ	 0.2700	 0.1580
WK	 0.2070	 0.1260
WL	 0.1940	 0.0880
WM	 0.2250	 0.1040
WN	 0.2470	 0.1100
WO	 0.3410	 0.1590
WP	 0.4010	 0.1750
WQ	 0.4120	 0.2190
WR	 0.4230	 0.2080
WS	 0.4750	 0.2340
WT	 0.4910	 0.2460
WU	 0.4830	 0.2110
WV	 0.4840	 0.2430
WW	 0.4710	 0.2400
X	 0.3790	 0.2040
Y	 0.3830	 0.2120
Z	 0.3850	 0.2080
ZA	 0.7820	 0.4990
ZB	 0.8050	 0.5050
ZC	 0.8020	 0.5020
ZD	 0.7950	 0.4990
ZE	 0.7860	 0.4940
ZF	 0.6200	 0.4500
ZG	 0.7670	 0.4800

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
ZH	 0.8040	 0.4840
ZI	 0.8010	 0.4820
ZJ	 0.8020	 0.4780
ZK	 0.7950	 0.4740
ZL	 0.7990	 0.4730
ZM	 0.7980	 0.4730
ZN	 0.7960	 0.4690
ZO	 0.7900	 0.4690
ZP	 0.7840	 0.4620
ZQ	 0.7650	 0.4540
ZR	 0.7520	 0.4520
ZS	 0.7520	 0.4530
ZT	 0.7300	 0.4370
ZU	 0.7080	 0.4320
ZV	 0.6860	 0.4250
ZW	 0.6600	 0.4250
ZX	 0.6380	 0.4160
ZY	 0.5890	 0.4060
ZZ	 0.5560	 0.3950
Za	 0.5220	 0.3800
Zb	 0.5020	 0.3870
Zc	 0.4820	 0.3740
Zd	 0.4430	 0.3490
Ze	 0.4150	 0.3440
Zf	 0.3900	 0.3300
Zg	 0.3620	 0.3120
Zh	 0.3480	 0.3080
a	 0.3210	 0.1760
b	 0.3200	 0.1710
c	 0.3090	 0.1790
d	 0.3240	 0.1660
e	 0.3130	 0.1690
f	 0.3160	 0.1750
g	 0.3270	 0.1590
h	 0.3060	 0.1600
i	 0.3170	 0.1580
j	 0.3240	 0.1730
k	 0.3040	 0.1510
l	 0.3020	 0.1620
m	 0.3210	 0.1550
n	 0.3140	 0.1640
o	 0.3250	 0.1600

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
p	 0.3230	 0.1910
q	 0.3040	 0.1610
r	 0.3300	 0.1840
s	 0.3010	 0.1560
t	 0.3010	 0.1710
u	 0.2760	 0.1590
v	 0.3060	 0.1650
w	 0.2970	 0.1650
x	 0.2910	 0.1570
y	 0.2720	 0.1480
z	 0.3090	 0.1790